FCC RADIO TEST REPORT

FCC ID	:	S9GR320
Equipment	:	R320 Access Point
Brand Name	:	Ruckus
Model Name	:	R320
Applicant	:	Ruckus Wireless, Inc. 350 W. Java Dr., Sunnyvale, CA 94089 USA
Manufacturer	:	Lite-On Network Communication (Dongguan) Limited 30#Keji Rd., Yin Hu Industrial Area, Qingxi Town, DongGuan City, Guangdong, China
Standard	:	47 CFR FCC Part 15.407

The product was received on Oct. 09, 2018, and testing was started from Oct. 11, 2018 and completed on Jan. 14, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR8O0618AB	01	Initial issue of report	Feb. 01, 2019

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Cindy Peng

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	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	802.11ac 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	802.11ac 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	802.11ac 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	802.11ac 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 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
	2.4GHz	5GHz					2.4GHz	5GHz
1	1	2	Ruckus	R310	PCB Antenna	I-PEX	0	3
2	2	1	Ruckus	R310	PCB Antenna	I-PEX	0	3

Note 1: The above information was declared by manufacturer.

Note 2: The EUT has two antennas (2TX/2RX).

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.968	0.141	2.081m	1k
802.11ac VHT20	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.971	0.128	2.441m	1k
802.11ac VHT80	0.939	0.273	1.155m	1k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter or PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beam-forming function for 802.11ac in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	QRCT V3.0.210.0			

Note: The above information was declared by manufacturer.

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 v02r01
- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL :	886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD :	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Owen Hsu	22°C / 51%	Oct. 11, 2018~Jan. 07, 2019
Radiated Below 1GHz	03CH01-CB	Stim Sung	22°C / 54%	Jan. 11, 2019
Radiated Above 1GHz	03CH01-CB	Paul Chen	22°C / 54%	Dec. 28, 2018~Jan. 14, 2019
AC Conduction	CO01-CB	GN Hou	23°C / 60%	Oct. 18, 2018

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)	2.0 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	9.74×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	20
5200MHz	20
5240MHz	20
5745MHz	20
5785MHz	20
5825MHz	19.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	20
5200MHz	20
5240MHz	20
5745MHz	20
5785MHz	20
5825MHz	20
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	17
5230MHz	20
5755MHz	20
5795MHz	20
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	17
5775MHz	20

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.
- The device(2T2R) supports TX-Beamforming. The power setting will be 3dB lower than Non-TXBF.

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
1	EUT + Adapter
2	EUT + PoE
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
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
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT Z axis + Adapter
2	EUT Z axis + PoE
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	

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
The EUT was performed at Y axis and Z axis position. The worst case was found at Y axis for Unwanted Emissions Above 1GHz harmonic, so the measurement will follow this same test configuration.	
1	EUT Y axis: WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA8O0618 for Co-location RF Exposure Evaluation.	

Note: The adapter and PoE were for measurement only, it would not be marketed.

Equipment	Brand Name	Model Name	FCC ID
Adapter	Ruckus	HK-AR-120A100-US	N/A
PoE	GOSPELL	G0720-480-050	N/A

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories	T-bar bracket*1 and Locking tab*1

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E6430	N/A
B	NB	DELL	E6430	N/A
C	NB	DELL	E6430	N/A
D	PoE	GOSPELL	G0720-480-050	N/A

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

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	GOSPELL	G0720-480-050	N/A
B	NB	DELL	E4300	N/A
C	NB	DELL	E4300	N/A
D	NB	DELL	E4300	N/A

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

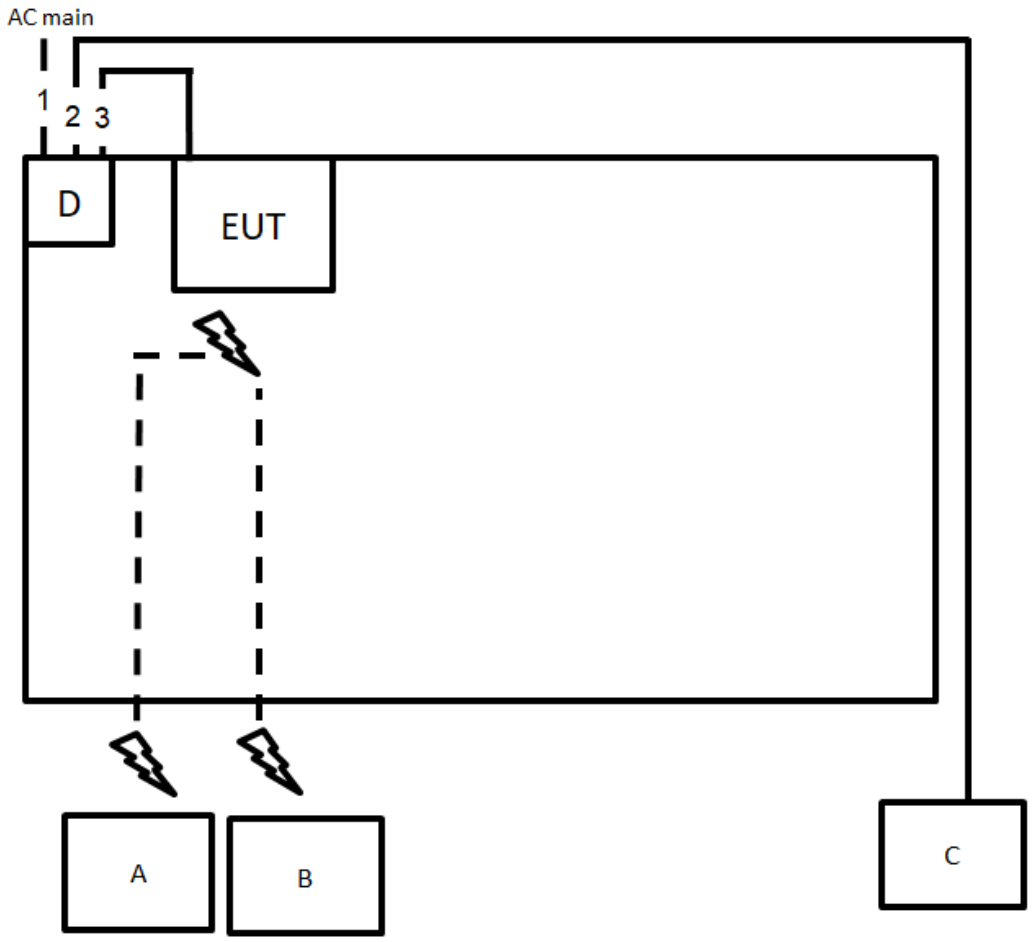
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	PoE	GOSPELL	G0720-480-050	N/A

For Test Site No: TH01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Adapter	Ruckus	HK-AR-120A100-US	N/A

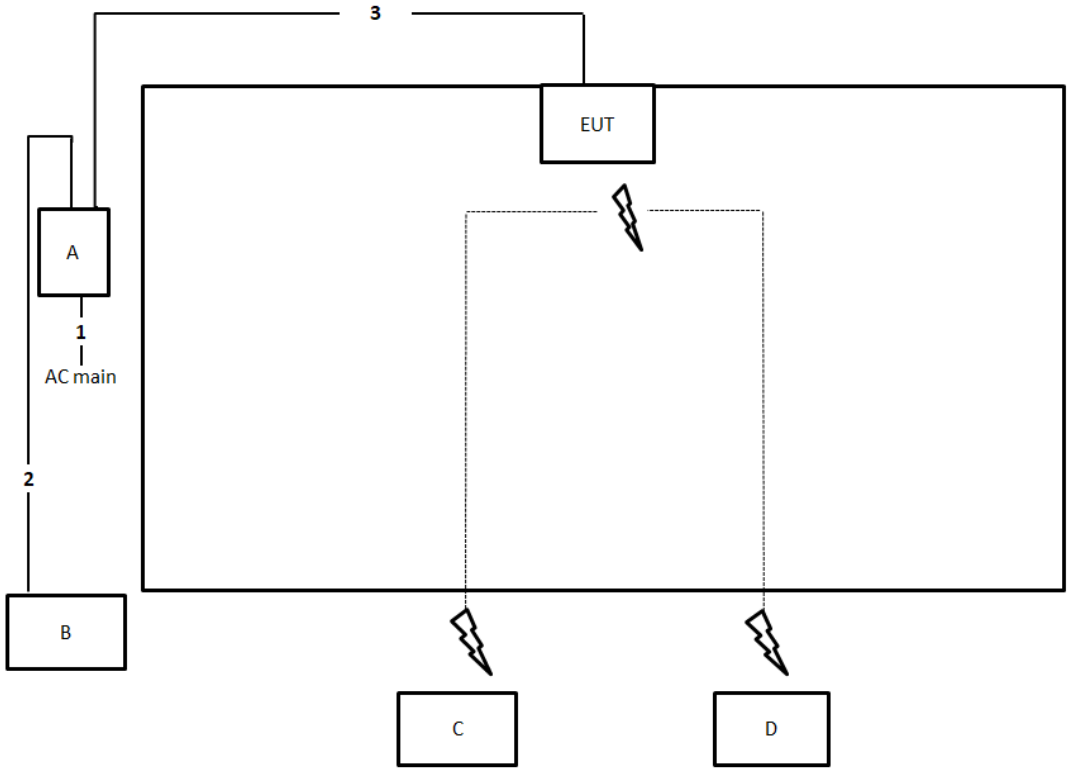
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



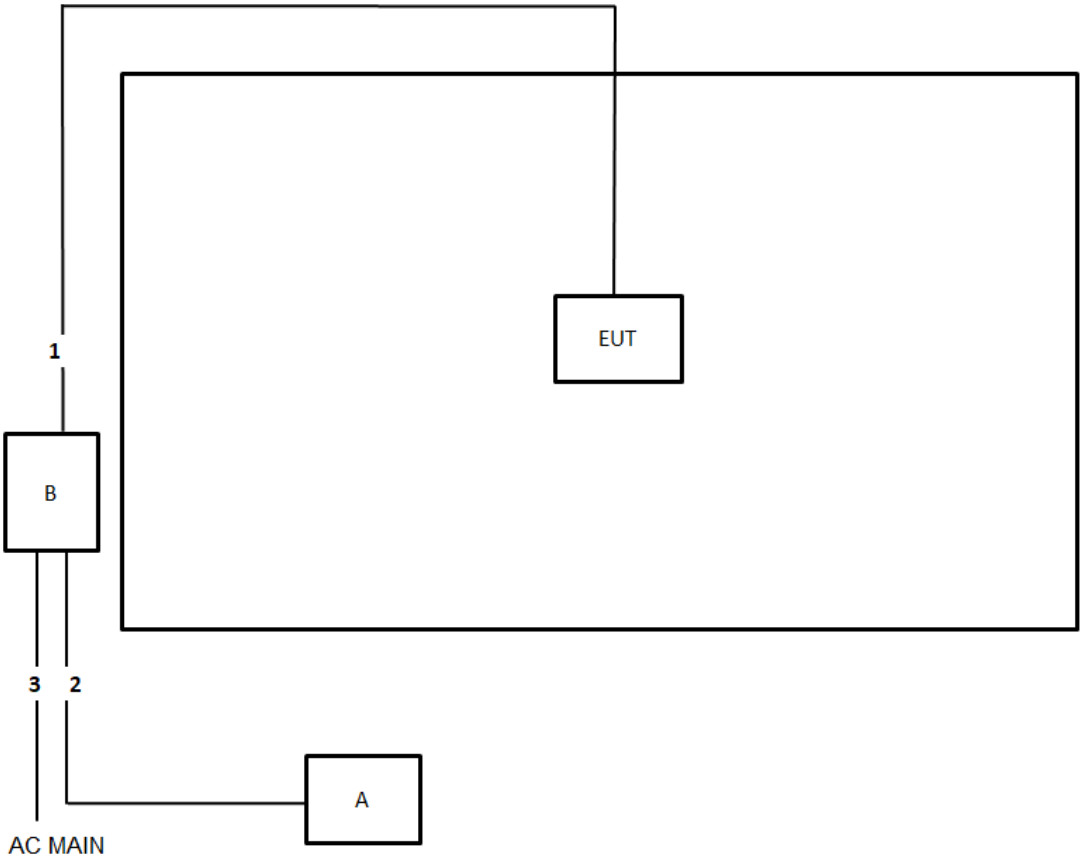
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m

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	1.8m

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

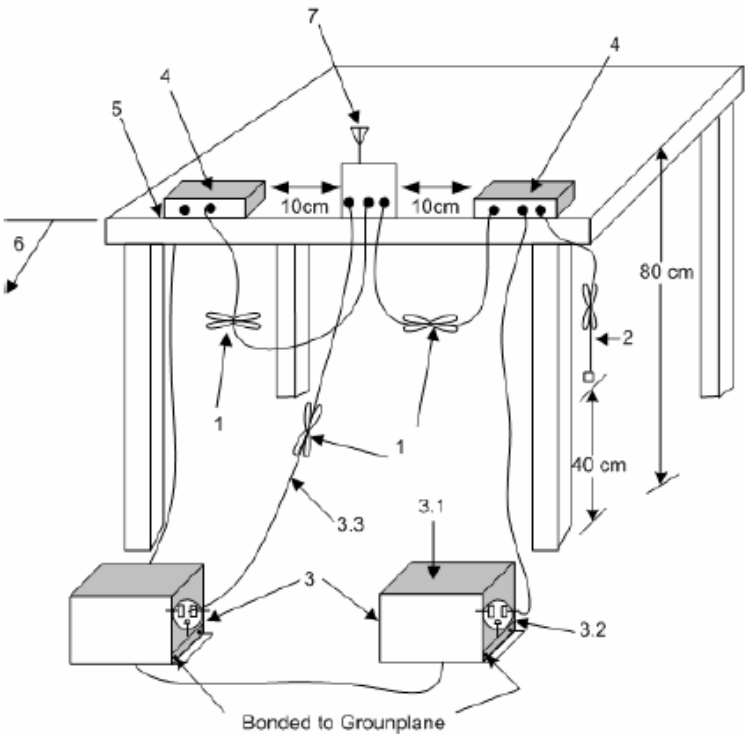
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 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 ≥ 500kHz.

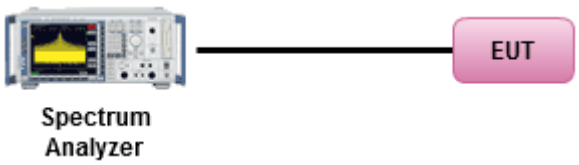
3.2.2 Measuring Instruments

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

Emission Bandwidth


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

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

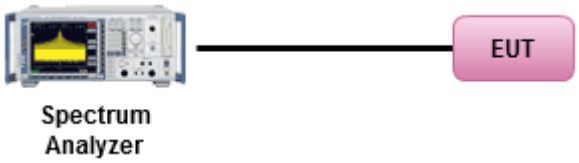
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	[duty cycle ≥ 98% or external video / power trigger]	
	☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
	duty cycle < 98% and average over on/off periods with duty factor	
	☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
▪ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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

linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

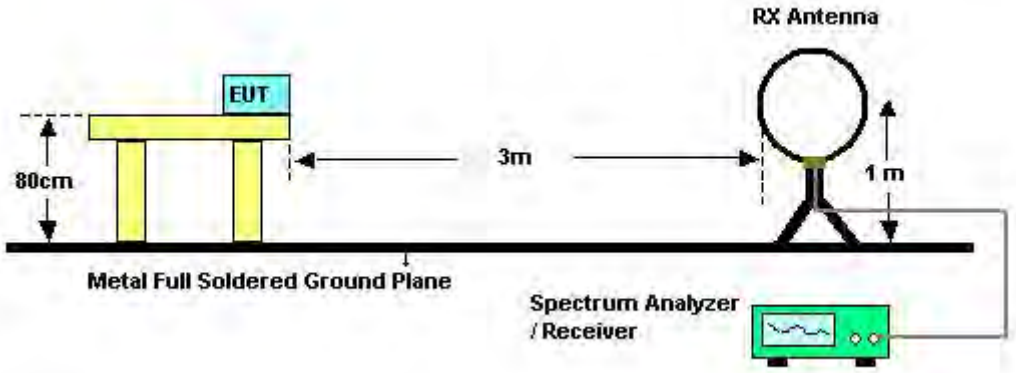
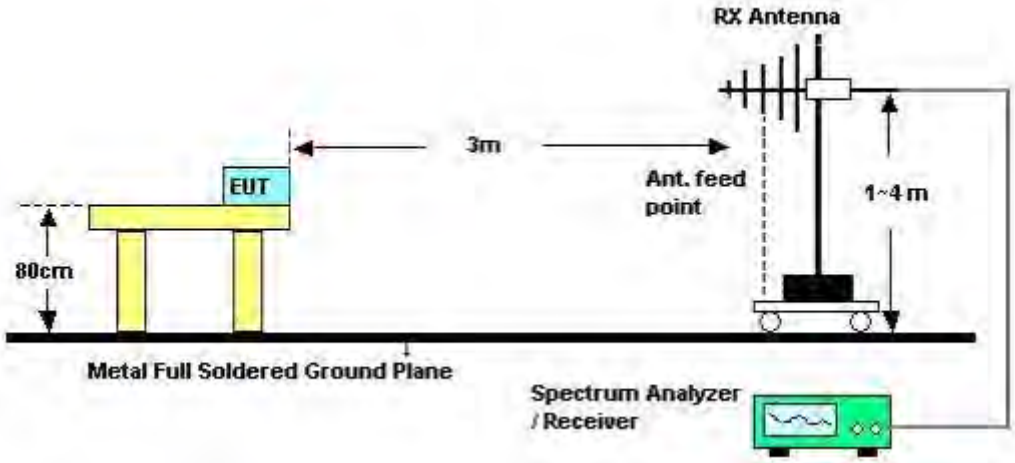
3.5.2 Measuring Instruments

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

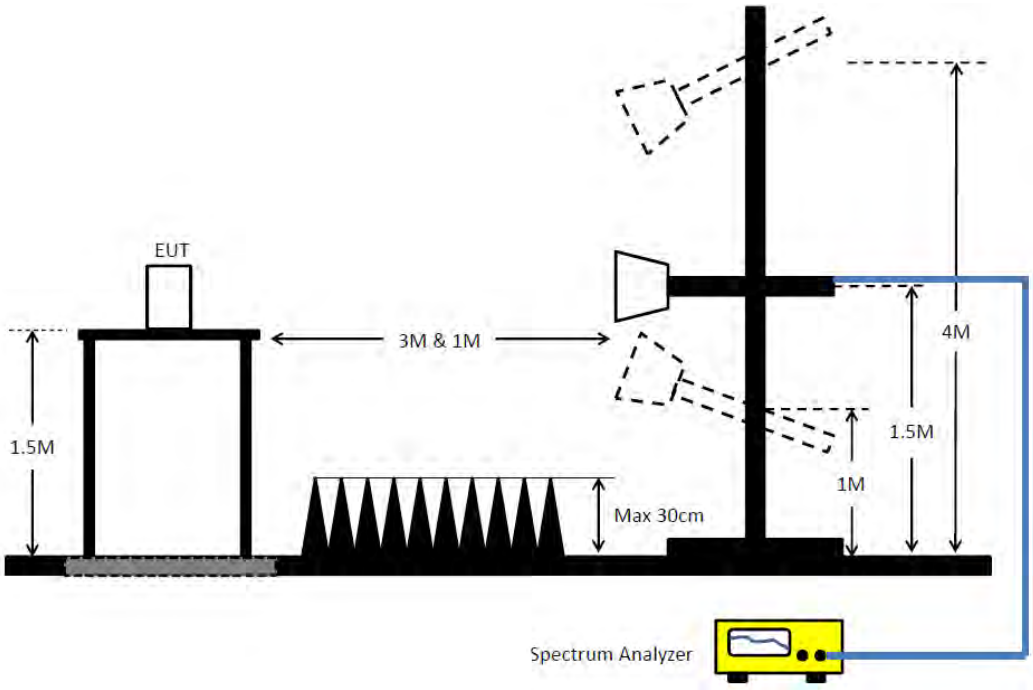
3.5.3 Test Procedures

Test Method			
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).			
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.		
	▪ Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.		
		☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).	
		☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).	
		☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.	
		☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.	
		☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.	
		☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
▪ For radiated measurement.			
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.		
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.		
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.		
▪ The any unwanted emissions level shall not exceed the fundamental emission level.			
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.			

3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

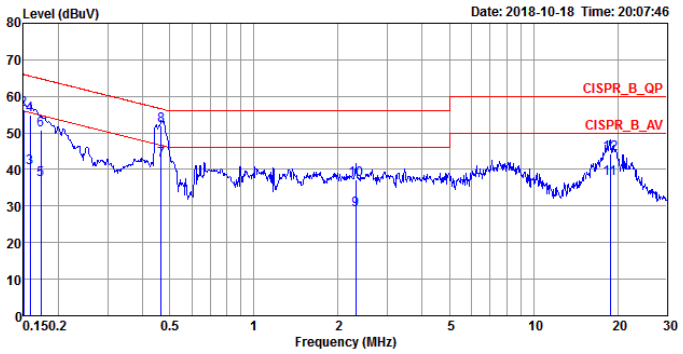
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 31, 2018	Jan. 30, 2019	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50 -16-2	04083	150kHz ~ 100MHz	Dec. 20, 2017	Dec. 19, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 29, 2017	Dec. 28, 2018	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	150kHz ~ 30MHz	May 22, 2018	May 21, 2019	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 26.5GHz	Aug. 09, 2018	Aug. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jun. 22, 2018	Jun. 21, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

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

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

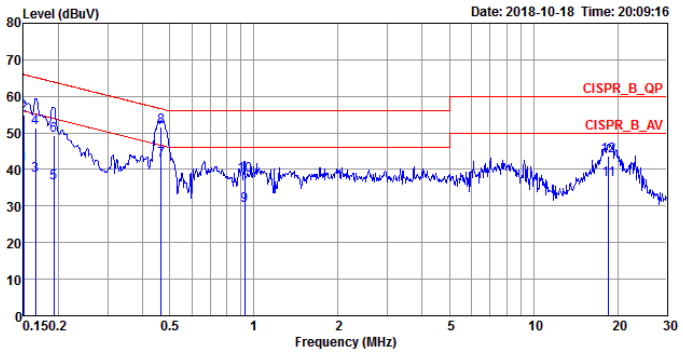
AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	40.30	-15.70	56.00	30.23	9.91	0.16	Average	LINE
2	0.1500	56.52	-9.48	66.00	46.45	9.91	0.16	QP	LINE
3	0.1582	40.48	-15.08	55.56	30.41	9.91	0.16	Average	LINE
4	0.1582	54.99	-10.57	65.56	44.92	9.91	0.16	QP	LINE
5	0.1731	37.29	-17.52	54.81	27.23	9.91	0.15	Average	LINE
6	0.1731	50.88	-13.93	64.81	40.82	9.91	0.15	QP	LINE
7	0.4661	42.60	-3.98	46.58	32.56	9.91	0.13	Average	LINE
8	0.4661	52.02	-4.56	56.58	41.98	9.91	0.13	QP	LINE
9	2.3090	28.99	-17.01	46.00	18.82	9.96	0.21	Average	LINE
10	2.3090	37.19	-18.81	56.00	27.02	9.96	0.21	QP	LINE
11	18.8205	37.42	-12.58	50.00	26.86	10.35	0.21	Average	LINE
12	18.8205	44.14	-15.86	60.00	33.58	10.35	0.21	QP	LINE

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

AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	41.28	-14.72	56.00	31.20	9.92	0.16	Average	NEUTRAL
2	0.1500	54.94	-11.06	66.00	44.86	9.92	0.16	QP	NEUTRAL
3	0.1659	38.32	-16.84	55.16	28.24	9.92	0.16	Average	NEUTRAL
4	0.1659	51.29	-13.87	65.16	41.21	9.92	0.16	QP	NEUTRAL
5	0.1924	36.26	-17.67	53.93	26.20	9.92	0.14	Average	NEUTRAL
6	0.1924	49.16	-14.77	63.93	39.10	9.92	0.14	QP	NEUTRAL
7	0.4661	42.51	-4.07	46.58	32.46	9.92	0.13	Average	NEUTRAL
8	0.4661	51.76	-4.82	56.58	41.71	9.92	0.13	QP	NEUTRAL
9	0.9282	30.24	-15.76	46.00	20.12	9.93	0.19	Average	NEUTRAL
10	0.9282	38.42	-17.58	56.00	28.30	9.93	0.19	QP	NEUTRAL
11	18.5237	37.19	-12.81	50.00	26.75	10.23	0.21	Average	NEUTRAL
12	18.5237	43.66	-16.34	60.00	33.22	10.23	0.21	QP	NEUTRAL

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

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	23.675M	16.492M	16M5D1D	21.025M	16.417M
802.11ac VHT20_Nss1,(MCS0)_2TX	25.575M	17.666M	17M7D1D	22.7M	17.641M
802.11ac VHT40_Nss1,(MCS0)_2TX	60.1M	36.132M	36M1D1D	39.65M	36.032M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.5M	75.762M	75M8D1D	83.2M	75.662M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.325M	16.492M	16M5D1D	16.3M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	17.716M	17M7D1D	17.525M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.15M	36.182M	36M2D1D	34M	35.882M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.9M	75.962M	76M0D1D	74.4M	75.762M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

Result

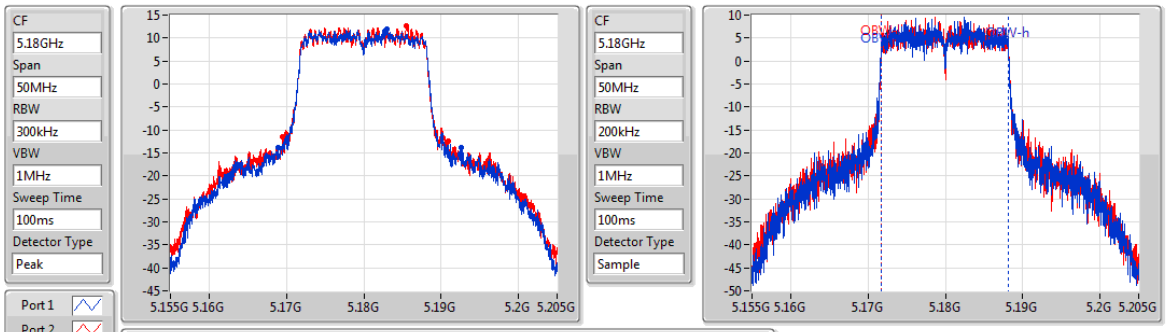
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	23.675M	16.467M	21.45M	16.442M
5200MHz	Pass	Inf	21.45M	16.442M	21.25M	16.442M
5240MHz	Pass	Inf	21.025M	16.492M	21.55M	16.417M
5745MHz	Pass	500k	16.325M	16.467M	16.325M	16.417M
5785MHz	Pass	500k	16.325M	16.492M	16.3M	16.442M
5825MHz	Pass	500k	16.3M	16.492M	16.325M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.825M	17.666M	25.575M	17.666M
5200MHz	Pass	Inf	22.7M	17.641M	25.15M	17.641M
5240MHz	Pass	Inf	22.8M	17.641M	25.35M	17.641M
5745MHz	Pass	500k	17.575M	17.716M	17.575M	17.641M
5785MHz	Pass	500k	17.575M	17.691M	17.525M	17.616M
5825MHz	Pass	500k	17.575M	17.716M	17.575M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.65M	36.032M	39.7M	36.082M
5230MHz	Pass	Inf	51M	36.082M	60.1M	36.132M
5755MHz	Pass	500k	34M	36.132M	35.05M	35.882M
5795MHz	Pass	500k	34.8M	36.182M	35.15M	36.032M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.5M	75.662M	83.2M	75.762M
5775MHz	Pass	500k	74.4M	75.962M	75.9M	75.762M

Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX **EBW**

5180MHz

03/01/2019

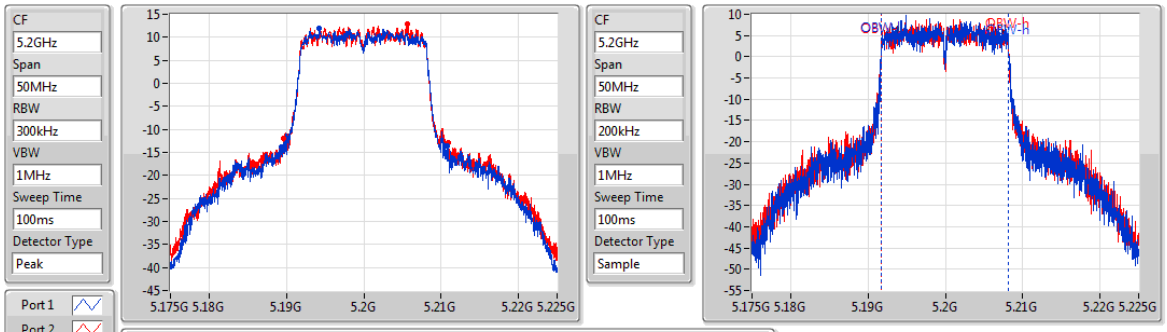


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.675M	5.168925G	5.1926G	16.467M	5.171729G	5.188196G	Inf	1
21.45M	5.16945G	5.1909G	16.442M	5.171729G	5.188171G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5200MHz

03/01/2019

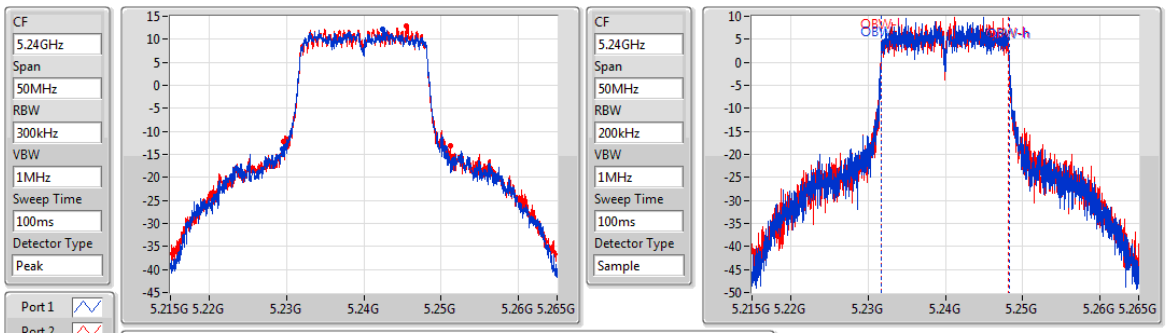


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.45M	5.18935G	5.2108G	16.442M	5.191754G	5.208196G	Inf	1
21.25M	5.189625G	5.210875G	16.442M	5.191729G	5.208171G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5240MHz

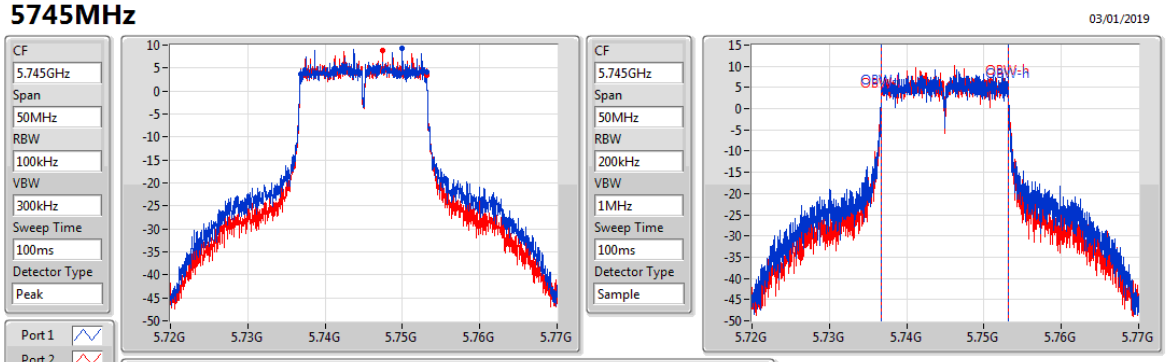
03/01/2019



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.025M	5.22955G	5.250575G	16.492M	5.231729G	5.248221G	Inf	1
21.55M	5.2296G	5.25115G	16.417M	5.231754G	5.248171G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

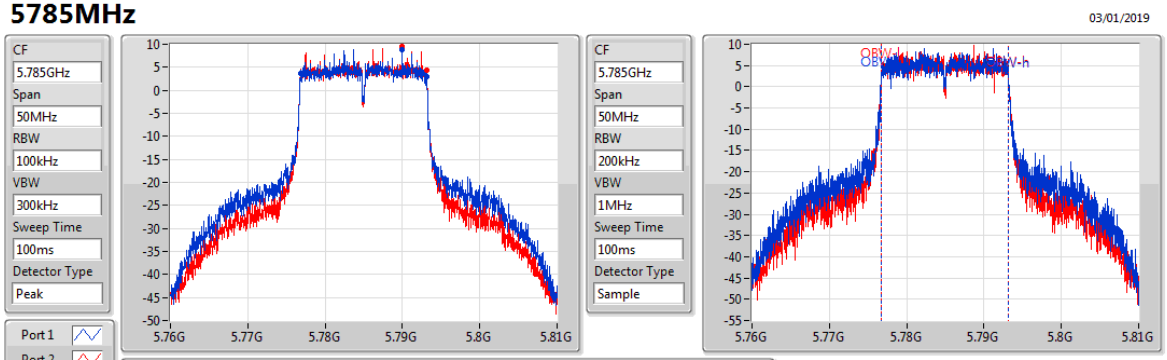
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.7368G	5.753125G	16.467M	5.736704G	5.753171G	500k	1
16.325M	5.7368G	5.753125G	16.417M	5.736754G	5.753171G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

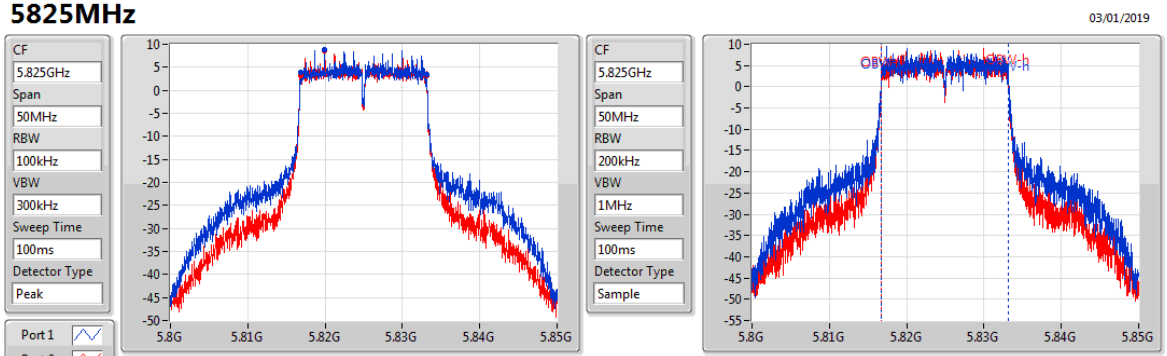
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.7768G	5.793125G	16.492M	5.776704G	5.793196G	500k	1
16.3M	5.7768G	5.7931G	16.442M	5.776729G	5.793171G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

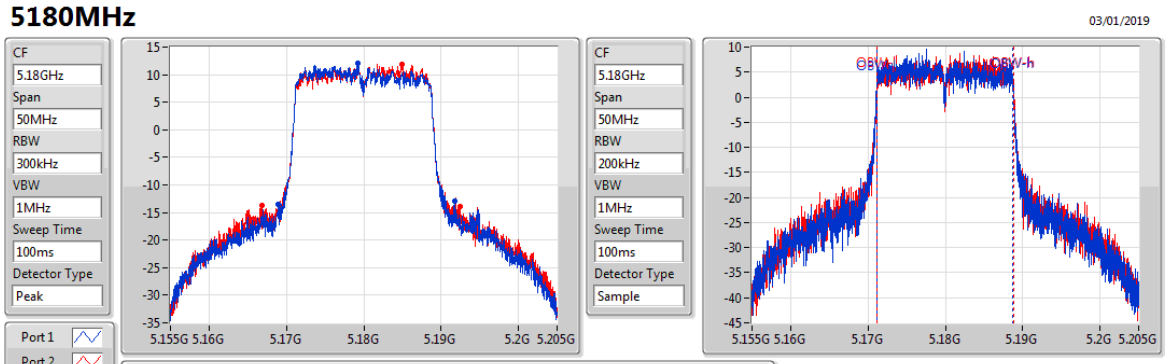
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	5.816825G	5.833125G	16.492M	5.816704G	5.833196G	500k	1
16.325M	5.8168G	5.833125G	16.392M	5.816754G	5.833146G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX **EBW**

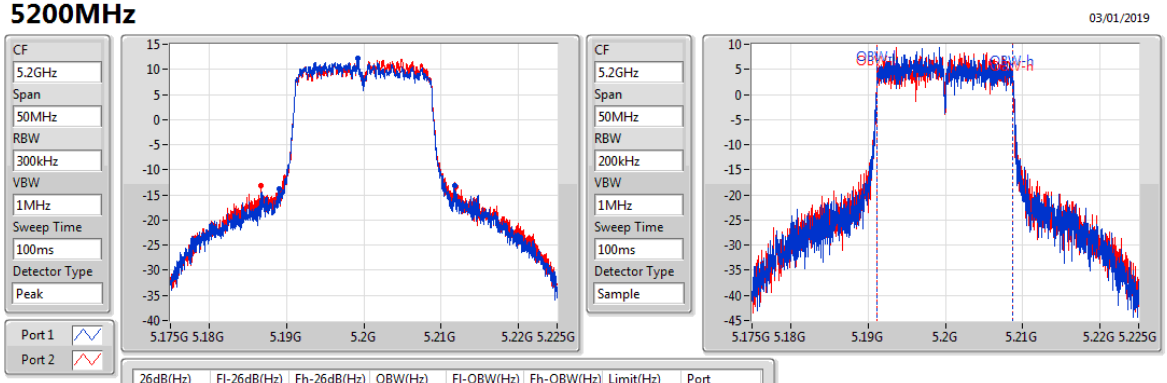
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.825M	5.168975G	5.1918G	17.666M	5.171104G	5.188771G	Inf	1
25.575M	5.166825G	5.1924G	17.666M	5.171129G	5.188796G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX **EBW**

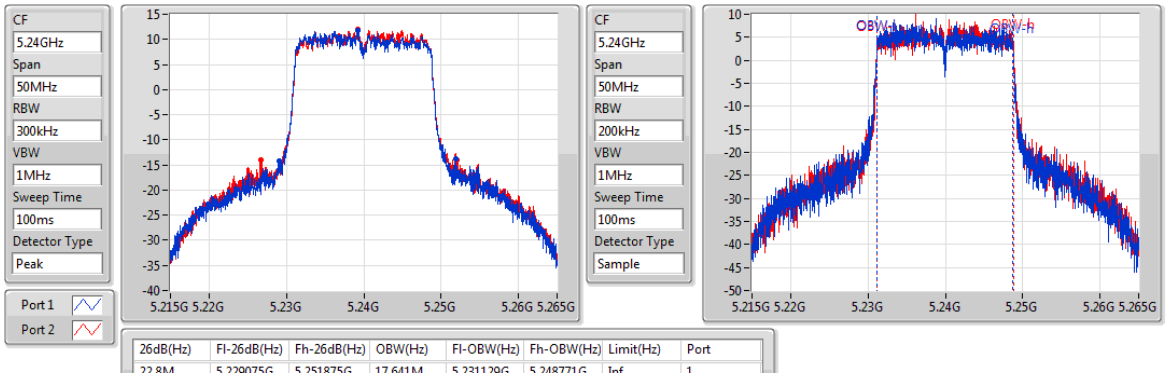
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.7M	5.189G	5.2117G	17.641M	5.191129G	5.208771G	Inf	1
25.15M	5.186725G	5.211875G	17.641M	5.191129G	5.208771G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX **EBW**

5240MHz

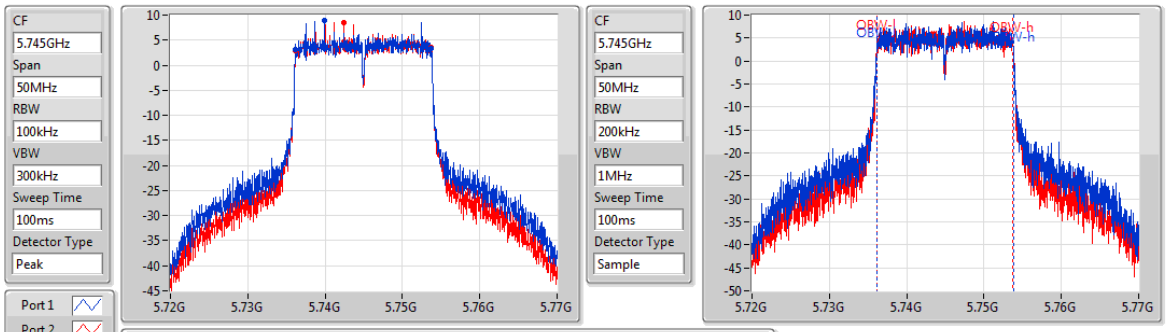


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.8M	5.229075G	5.251875G	17.641M	5.231129G	5.248771G	Inf	1
25.35M	5.2267G	5.25205G	17.641M	5.231154G	5.248796G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5745MHz

03/01/2019

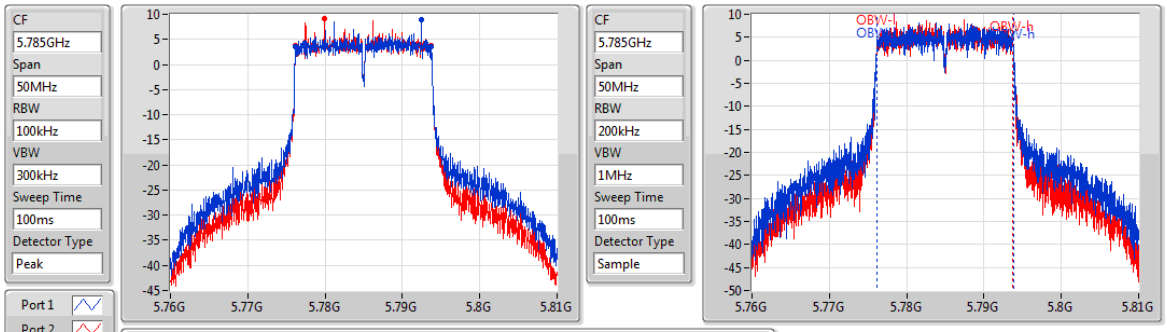


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.736175G	5.75375G	17.716M	5.736104G	5.753821G	500k	1
17.575M	5.736175G	5.75375G	17.641M	5.736129G	5.753771G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5785MHz

03/01/2019

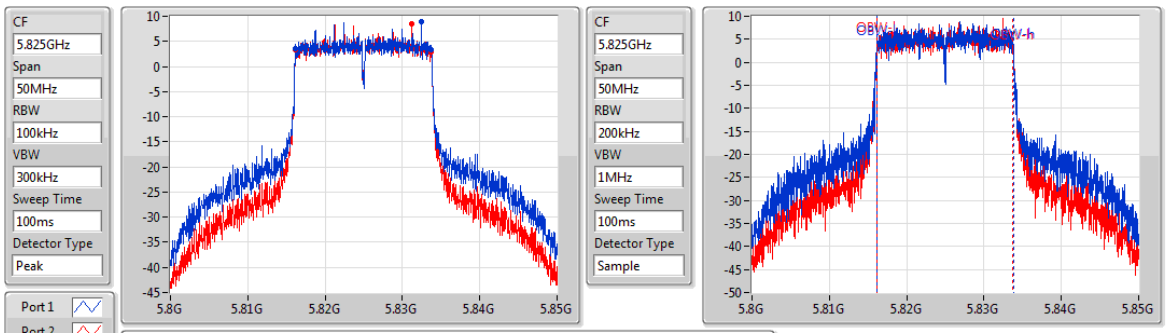


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.776175G	5.79375G	17.691M	5.776104G	5.793796G	500k	1
17.525M	5.7762G	5.793725G	17.616M	5.776154G	5.793771G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5825MHz

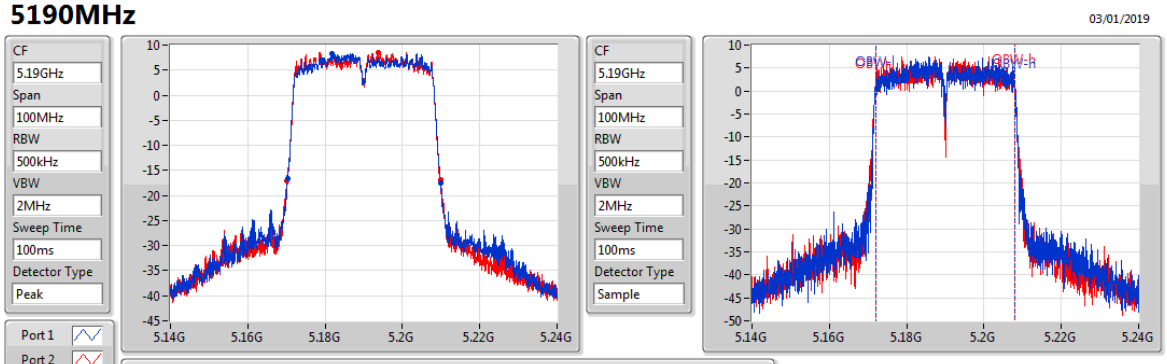
03/01/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.816175G	5.83375G	17.716M	5.816104G	5.833821G	500k	1
17.575M	5.816175G	5.83375G	17.616M	5.816154G	5.833771G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX — EBW

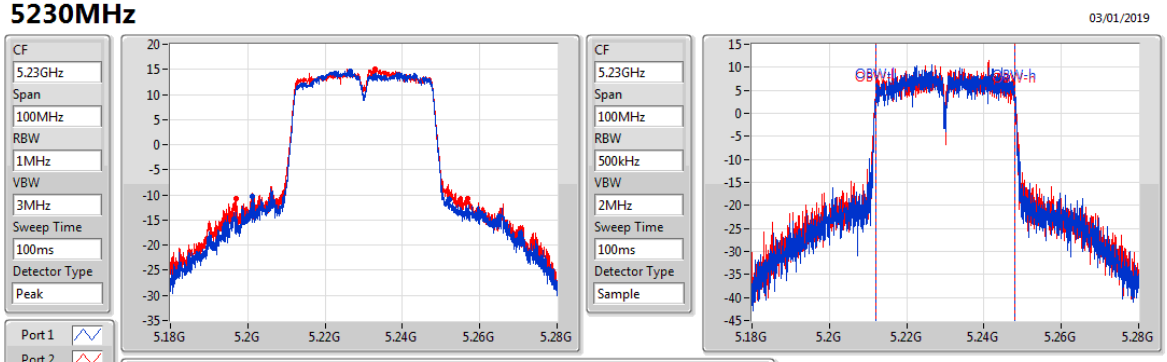
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.65M	5.1703G	5.20995G	36.032M	5.171959G	5.207991G	Inf	1
39.7M	5.17015G	5.20985G	36.082M	5.171909G	5.207991G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX — EBW

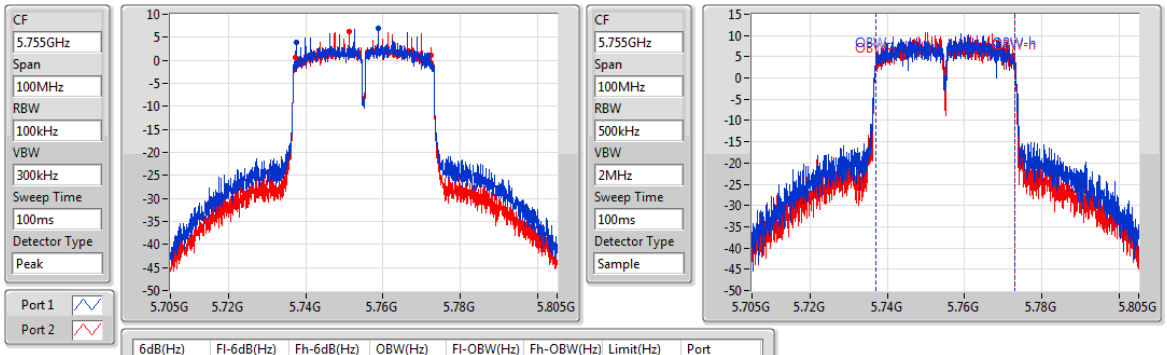
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
51M	5.20125G	5.25225G	36.082M	5.211959G	5.248041G	Inf	1
60.1M	5.1969G	5.257G	36.132M	5.211909G	5.248041G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX — EBW

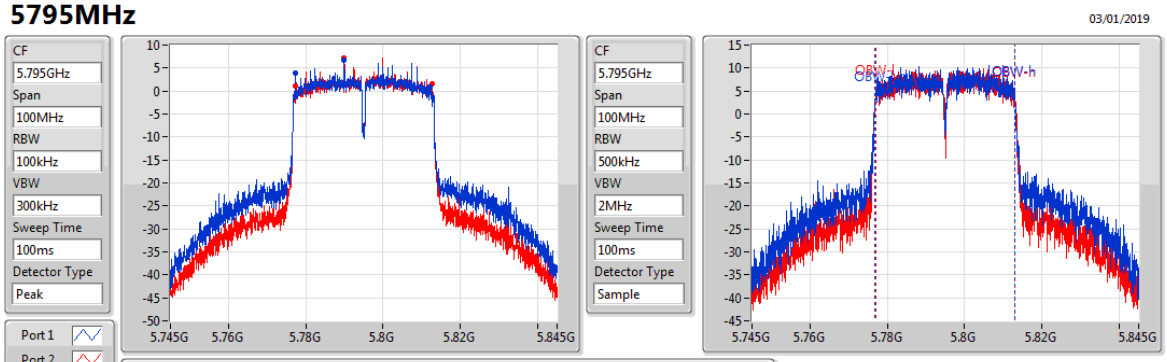
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34M	5.7375G	5.7715G	36.132M	5.736909G	5.773041G	500k	1
35.05M	5.73745G	5.7725G	35.882M	5.737009G	5.772891G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

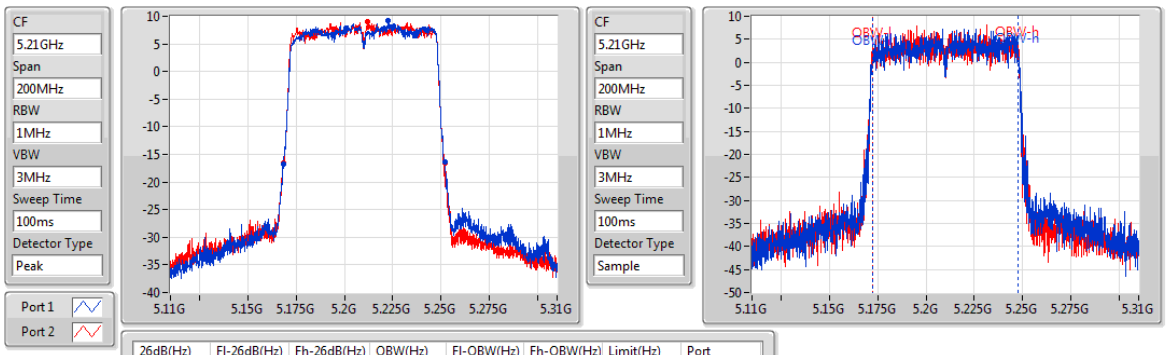
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.8M	5.77745G	5.81225G	36.182M	5.776859G	5.813041G	500k	1
35.15M	5.7774G	5.81255G	36.032M	5.776959G	5.812991G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

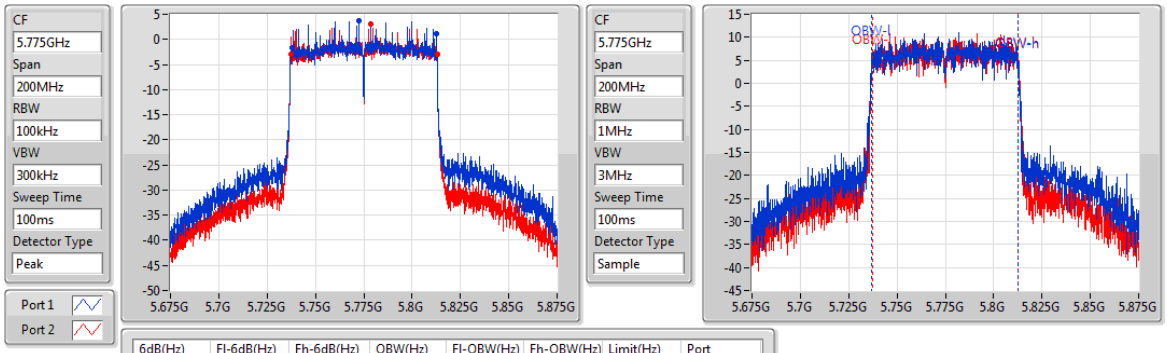
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.5M	5.1686G	5.2521G	75.662M	5.172219G	5.247881G	Inf	1
83.2M	5.1686G	5.2518G	75.762M	5.172119G	5.247881G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
74.4M	5.7381G	5.8125G	75.962M	5.736919G	5.812881G	500k	1
75.9M	5.7372G	5.8131G	75.762M	5.737119G	5.812881G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.46	0.22182
802.11ac VHT20_Nss1,(MCS0)_2TX	23.73	0.23605
802.11ac VHT40_Nss1,(MCS0)_2TX	23.88	0.24434
802.11ac VHT80_Nss1,(MCS0)_2TX	20.71	0.11776
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	23.31	0.21429
802.11ac VHT20_Nss1,(MCS0)_2TX	23.82	0.24099
802.11ac VHT40_Nss1,(MCS0)_2TX	24.08	0.25586
802.11ac VHT80_Nss1,(MCS0)_2TX	23.69	0.23388

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.00	20.45	20.44	23.46	30.00
5200MHz	Pass	3.00	20.35	20.39	23.38	30.00
5240MHz	Pass	3.00	20.43	20.32	23.39	30.00
5745MHz	Pass	3.00	20.16	20.44	23.31	30.00
5785MHz	Pass	3.00	20.15	20.39	23.28	30.00
5825MHz	Pass	3.00	19.85	19.94	22.91	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.00	20.56	20.76	23.67	30.00
5200MHz	Pass	3.00	20.60	20.83	23.73	30.00
5240MHz	Pass	3.00	20.52	20.85	23.70	30.00
5745MHz	Pass	3.00	20.72	20.78	23.76	30.00
5785MHz	Pass	3.00	20.51	20.54	23.54	30.00
5825MHz	Pass	3.00	20.85	20.76	23.82	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	3.00	18.07	18.00	21.05	30.00
5230MHz	Pass	3.00	20.70	21.04	23.88	30.00
5755MHz	Pass	3.00	21.12	21.02	24.08	30.00
5795MHz	Pass	3.00	21.02	20.86	23.95	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	3.00	17.68	17.71	20.71	30.00
5775MHz	Pass	3.00	20.73	20.63	23.69	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.83
802.11ac VHT20_Nss1,(MCS0)_2TX	10.49
802.11ac VHT40_Nss1,(MCS0)_2TX	7.94
802.11ac VHT80_Nss1,(MCS0)_2TX	1.55
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	9.28
802.11ac VHT20_Nss1,(MCS0)_2TX	8.87
802.11ac VHT40_Nss1,(MCS0)_2TX	6.61
802.11ac VHT80_Nss1,(MCS0)_2TX	3.09

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

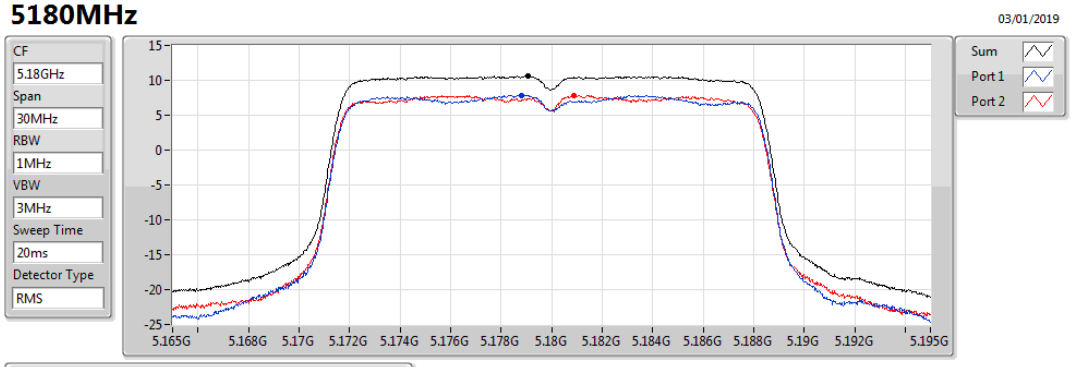
Result

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	6.01	7.89	7.87	10.58	16.99
5200MHz	Pass	6.01	7.82	7.83	10.54	16.99
5240MHz	Pass	6.01	7.92	8.00	10.83	16.99
5745MHz	Pass	6.01	6.29	6.28	9.28	29.99
5785MHz	Pass	6.01	6.21	6.09	9.08	29.99
5825MHz	Pass	6.01	5.87	5.54	8.67	29.99
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.01	7.73	7.67	10.43	16.99
5200MHz	Pass	6.01	7.59	7.78	10.40	16.99
5240MHz	Pass	6.01	7.54	7.87	10.49	16.99
5745MHz	Pass	6.01	5.87	5.85	8.87	29.99
5785MHz	Pass	6.01	5.71	5.94	8.81	29.99
5825MHz	Pass	6.01	5.78	5.84	8.76	29.99
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.01	2.45	2.28	5.04	16.99
5230MHz	Pass	6.01	5.06	5.28	7.94	16.99
5755MHz	Pass	6.01	3.70	3.60	6.61	29.99
5795MHz	Pass	6.01	3.66	3.46	6.53	29.99
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.01	-0.98	-1.36	1.55	16.99
5775MHz	Pass	6.01	0.31	-0.02	3.09	29.99

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 Xpower density;

802.11a_Nss1,(6Mbps)_2TX **PSD**

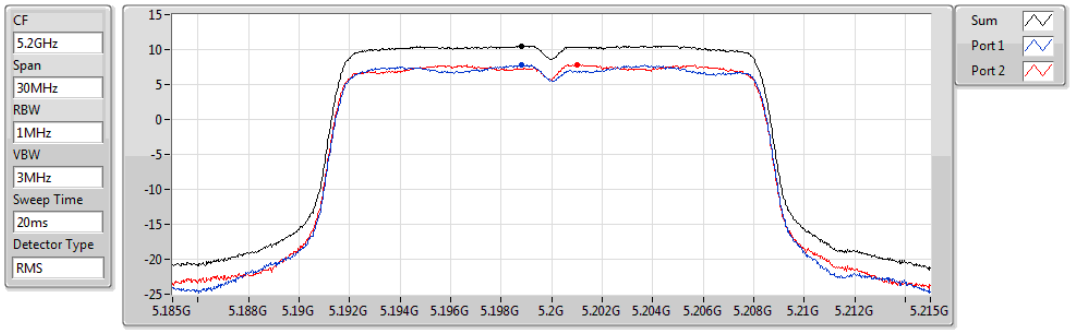
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.58	10.58	7.89	7.87

802.11a_Nss1,(6Mbps)_2TX **PSD**

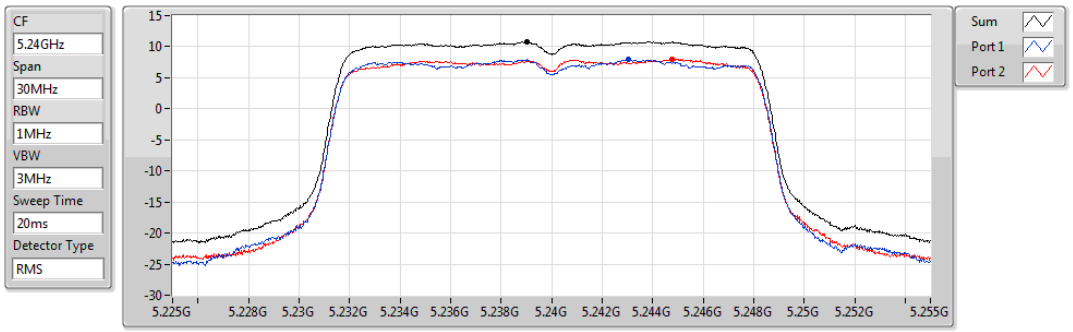
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.54	10.54	7.82	7.83

802.11a_Nss1,(6Mbps)_2TX **PSD**

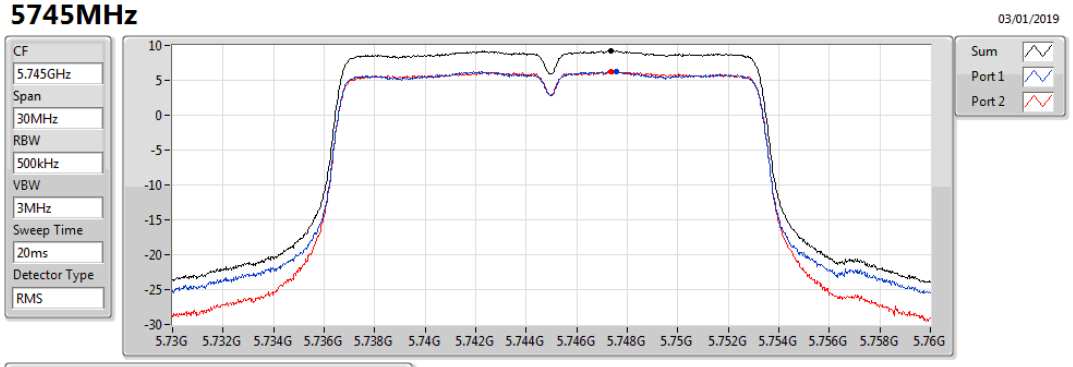
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.83	10.83	7.92	8.00

802.11a_Nss1,(6Mbps)_2TX PSD

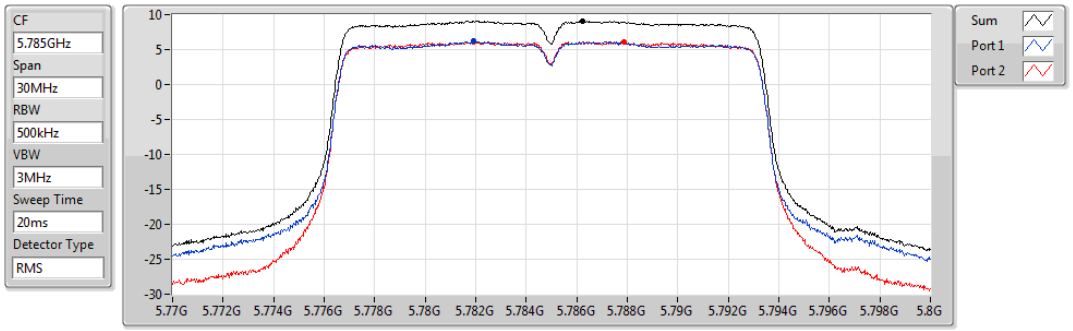
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.28	9.28	6.29	6.28

802.11a_Nss1,(6Mbps)_2TX PSD

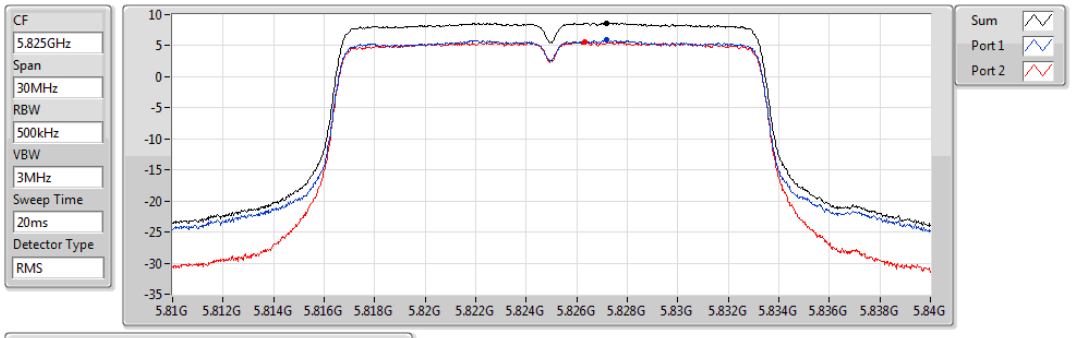
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.08	9.08	6.21	6.09

802.11a_Nss1,(6Mbps)_2TX PSD

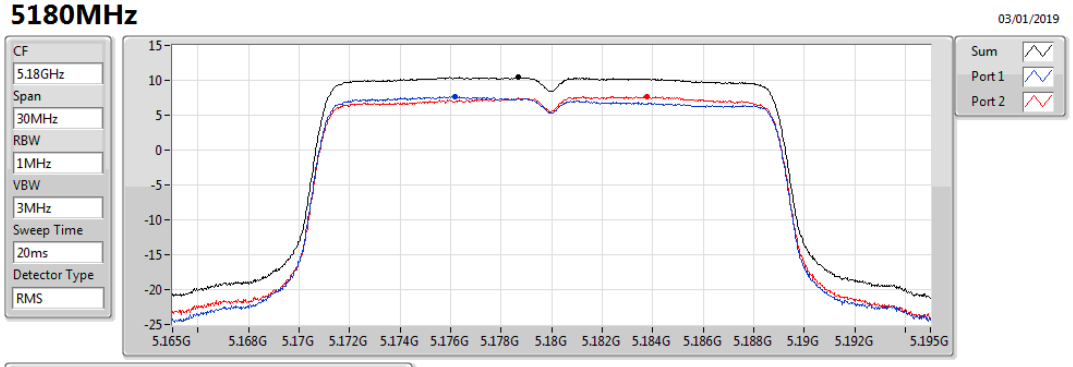
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.67	8.67	5.87	5.54

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

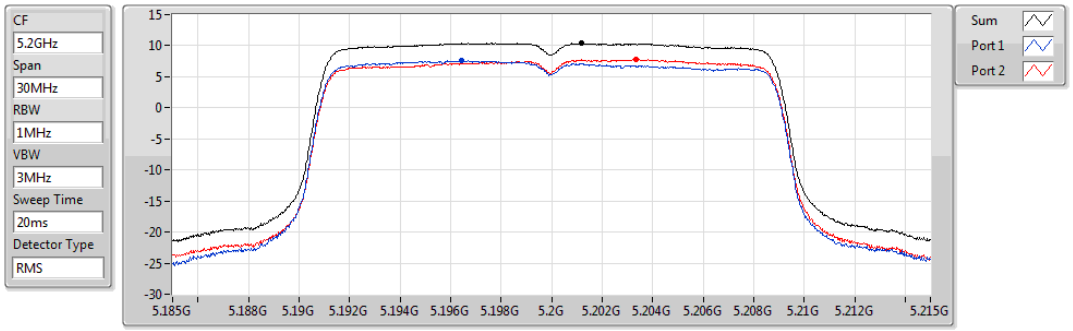
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.43	10.43	7.73	7.67

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

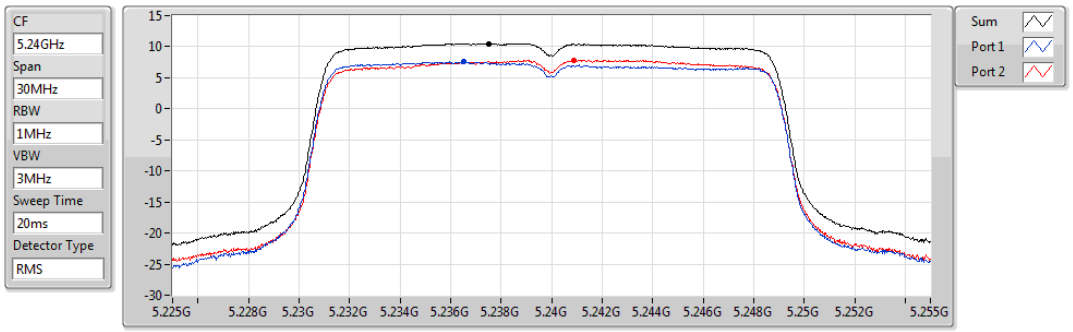
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.40	10.40	7.59	7.78

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

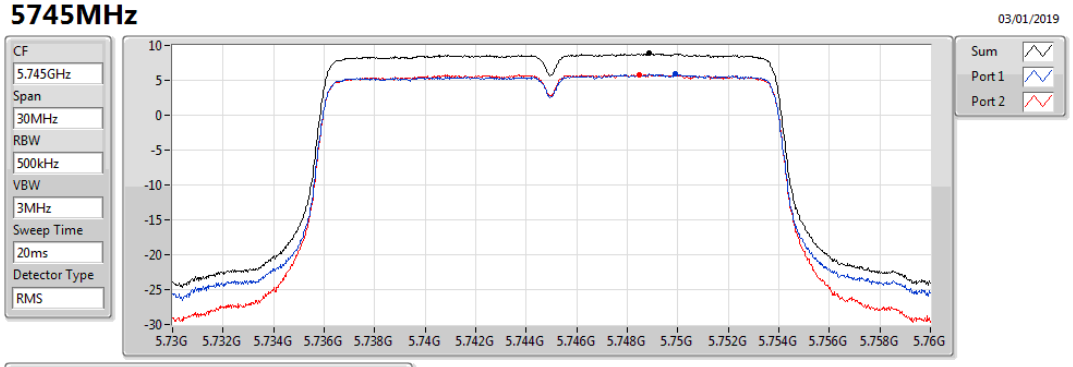
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.49	10.49	7.54	7.87

802.11ac VHT20_Nss1,(MCS0)_2TX **PSD**

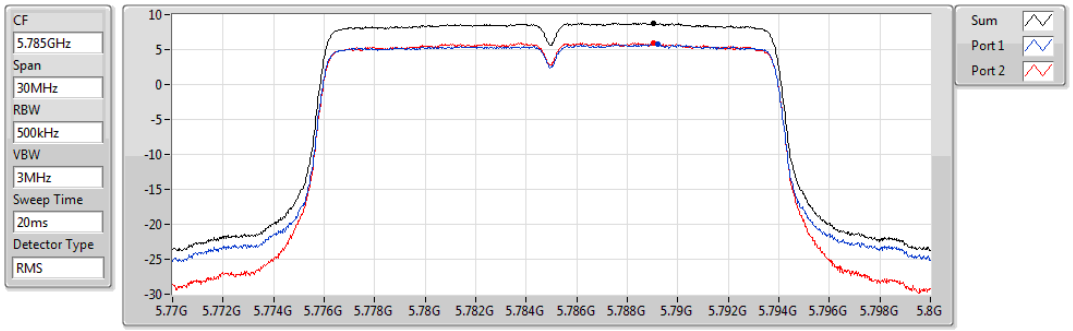
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.87	8.87	5.87	5.85

802.11ac VHT20_Nss1,(MCS0)_2TX **PSD**

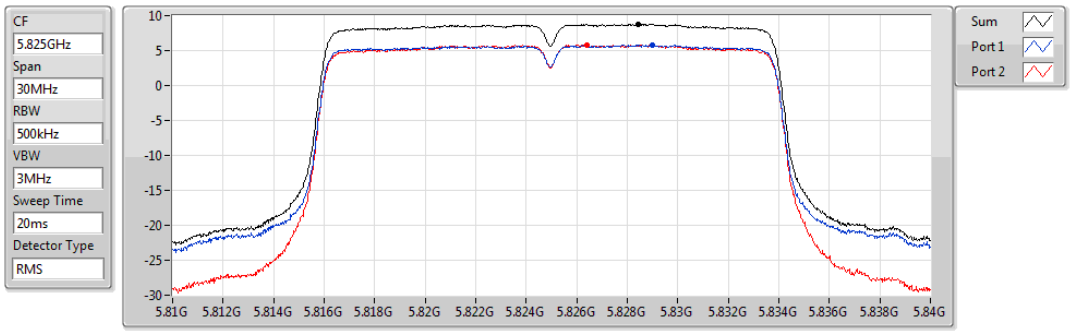
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.81	8.81	5.71	5.94

802.11ac VHT20_Nss1,(MCS0)_2TX **PSD**

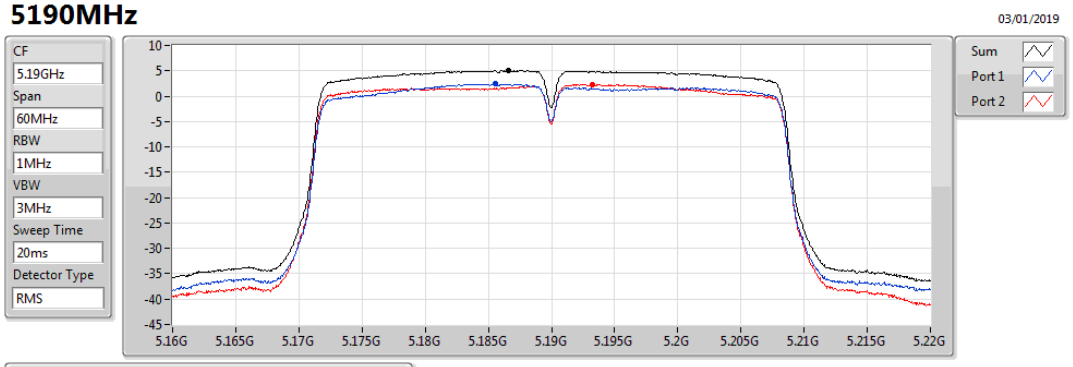
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.76	8.76	5.78	5.84

802.11ac VHT40_Nss1,(MCS0)_2TX **PSD**

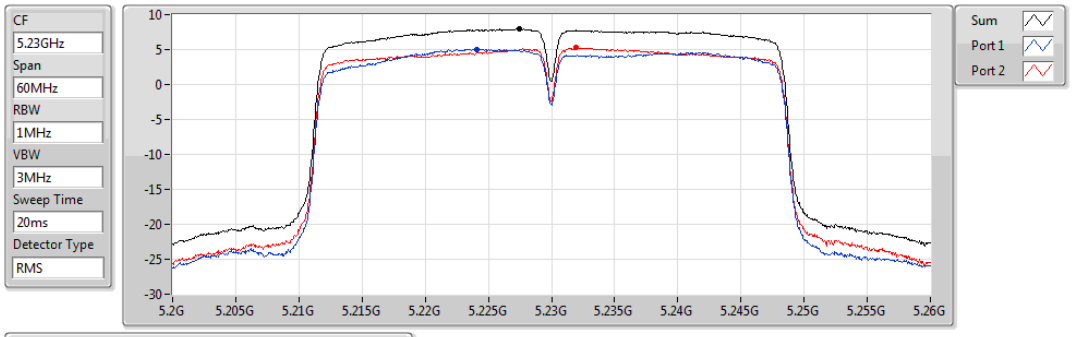
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.04	5.04	2.45	2.28

802.11ac VHT40_Nss1,(MCS0)_2TX **PSD**

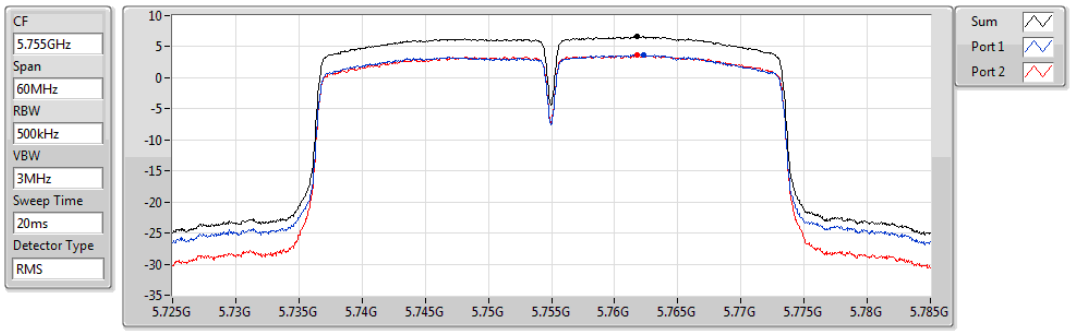
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.94	7.94	5.06	5.28

802.11ac VHT40_Nss1,(MCS0)_2TX **PSD**

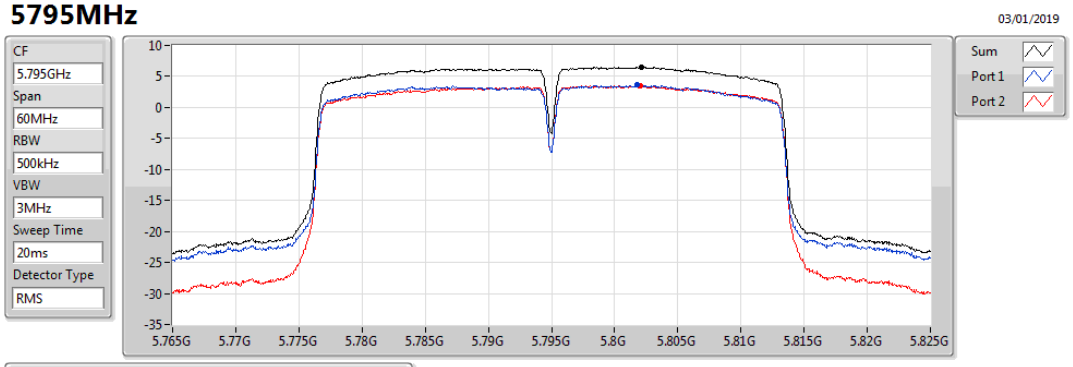
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.61	6.61	3.70	3.60

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

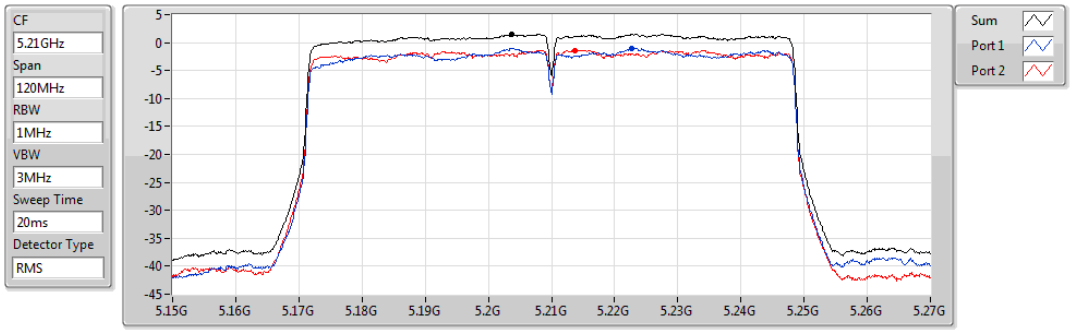
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.53	6.53	3.66	3.46

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

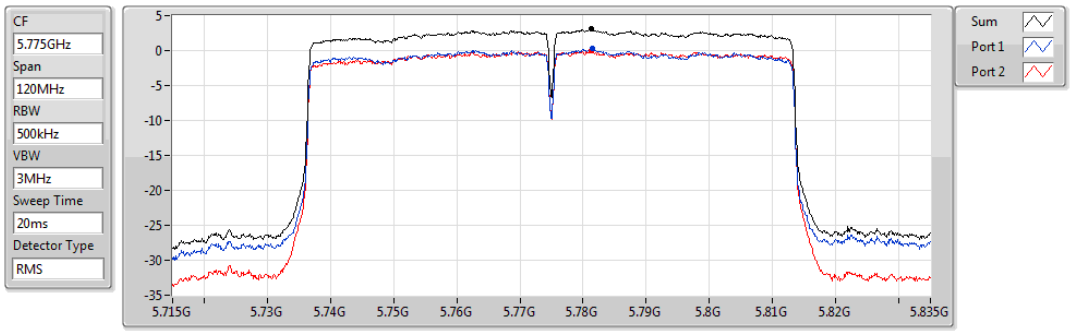
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.55	1.55	-0.98	-1.36

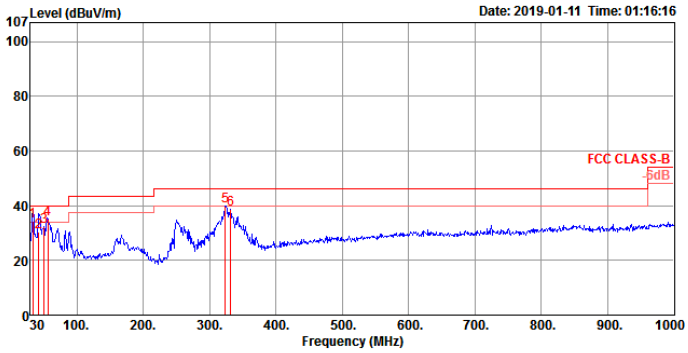
802.11ac VHT80_Nss1,(MCS0)_2TX PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.09	3.09	0.31	-0.02

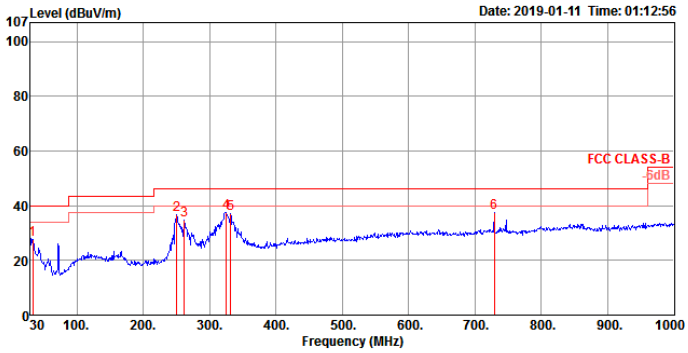
RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Vertical
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	33.88	34.45	40.00	-5.55	44.50	0.55	21.82	32.42	102	126	QP	VERTICAL
2	42.61	30.40	40.00	-9.60	45.20	0.64	16.98	32.42	100	222	QP	VERTICAL
3	50.37	32.55	40.00	-7.45	50.74	0.73	13.50	32.42	100	360	Peak	VERTICAL
4	56.19	35.32	40.00	-4.68	54.45	0.77	12.51	32.41	100	360	Peak	VERTICAL
5	323.91	40.00	46.00	-6.00	50.77	1.94	19.56	32.27	100	360	Peak	VERTICAL
6	331.67	38.89	46.00	-7.11	49.52	1.97	19.67	32.27	100	360	Peak	VERTICAL

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

RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	33.88	27.78	40.00	-12.22	37.83	0.55	21.82	32.42	100	0	Peak	HORIZONTAL
2	250.19	36.61	46.00	-9.39	49.17	1.62	18.10	32.28	100	0	Peak	HORIZONTAL
3	261.83	34.86	46.00	-11.14	46.55	1.67	18.91	32.27	100	0	Peak	HORIZONTAL
4	324.88	37.66	46.00	-8.34	48.43	1.94	19.56	32.27	100	0	Peak	HORIZONTAL
5	331.67	37.26	46.00	-8.74	47.89	1.97	19.67	32.27	100	0	Peak	HORIZONTAL
6	729.37	37.33	46.00	-8.67	41.18	2.89	25.53	32.27	100	0	Peak	HORIZONTAL

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

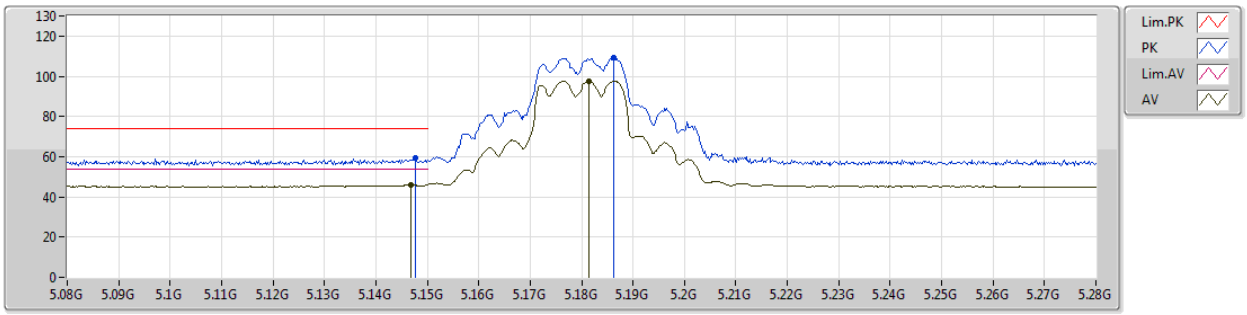
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.15G	53.78	54.00	-0.22	7.85	3	Horizontal	286	2.87	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

28/12/2018



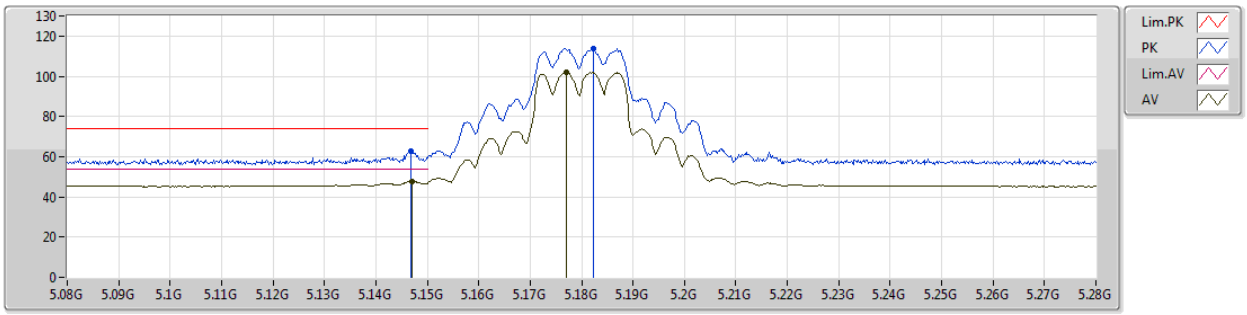
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.1476G	59.48	74.00	-14.52	5.85	3	Vertical	184	1.22	-
AV	5.1468G	46.15	54.00	-7.85	5.84	3	Vertical	184	1.22	-
PK	5.1862G	109.03	Inf	-Inf	5.94	3	Vertical	184	1.22	-
AV	5.1814G	97.72	Inf	-Inf	5.93	3	Vertical	184	1.22	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

28/12/2018



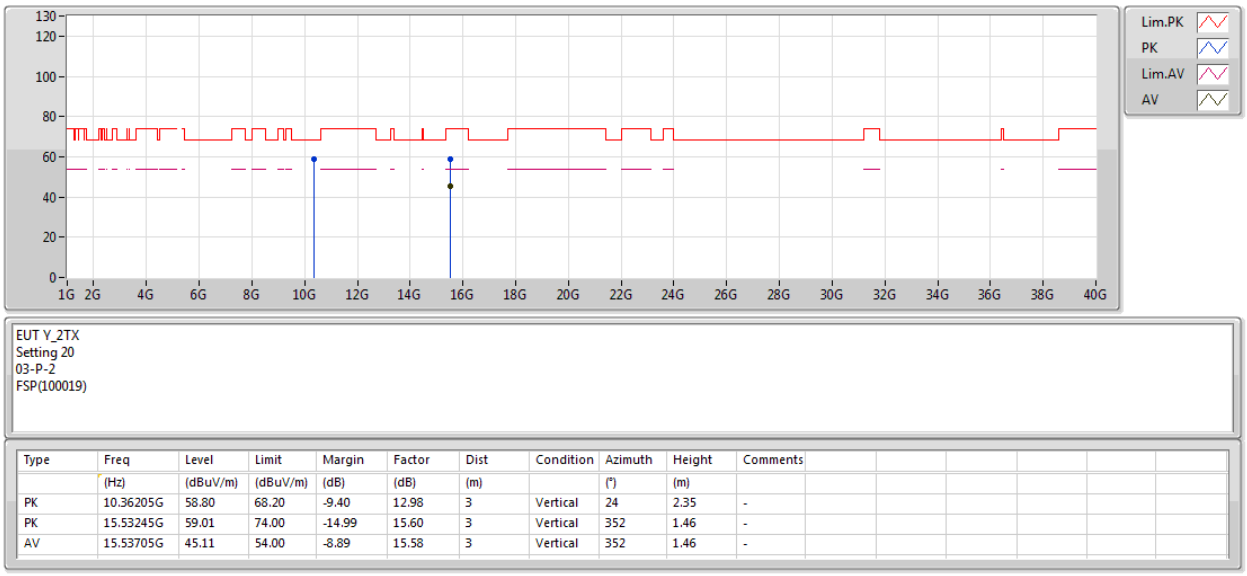
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.1468G	62.79	74.00	-11.21	5.84	3	Horizontal	288	2.43	-
AV	5.147G	47.79	54.00	-6.21	5.84	3	Horizontal	288	2.43	-
PK	5.1824G	113.91	Inf	-Inf	5.93	3	Horizontal	288	2.43	-
AV	5.177G	101.97	Inf	-Inf	5.91	3	Horizontal	288	2.43	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

28/12/2018



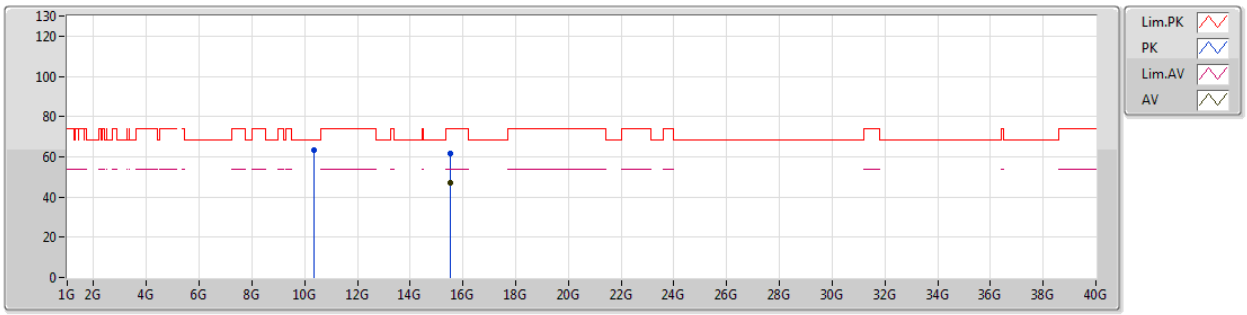
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.36205G	58.80	68.20	-9.40	12.98	3	Vertical	24	2.35	-
PK	15.53245G	59.01	74.00	-14.99	15.60	3	Vertical	352	1.46	-
AV	15.53705G	45.11	54.00	-8.89	15.58	3	Vertical	352	1.46	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

28/12/2018



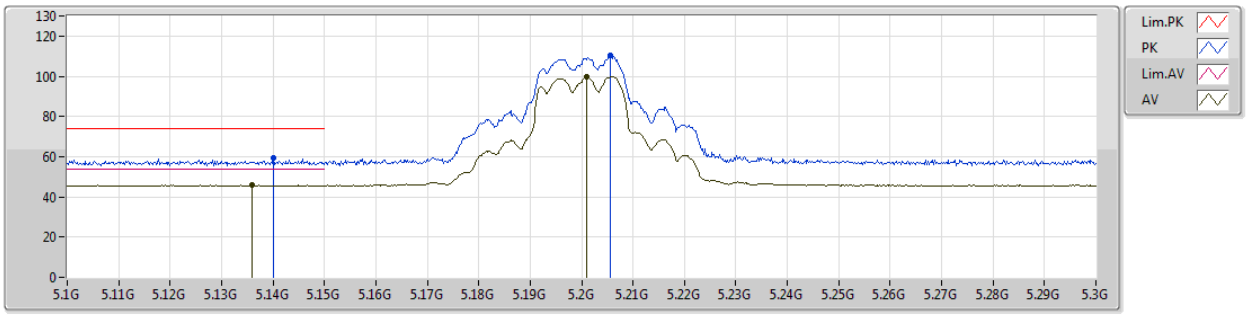
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.3607G	63.33	68.20	-4.87	12.98	3	Horizontal	49	2.20	-
PK	15.53695G	61.69	74.00	-12.31	15.58	3	Horizontal	304	1.96	-
AV	15.53745G	47.30	54.00	-6.70	15.58	3	Horizontal	304	1.96	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

28/12/2018



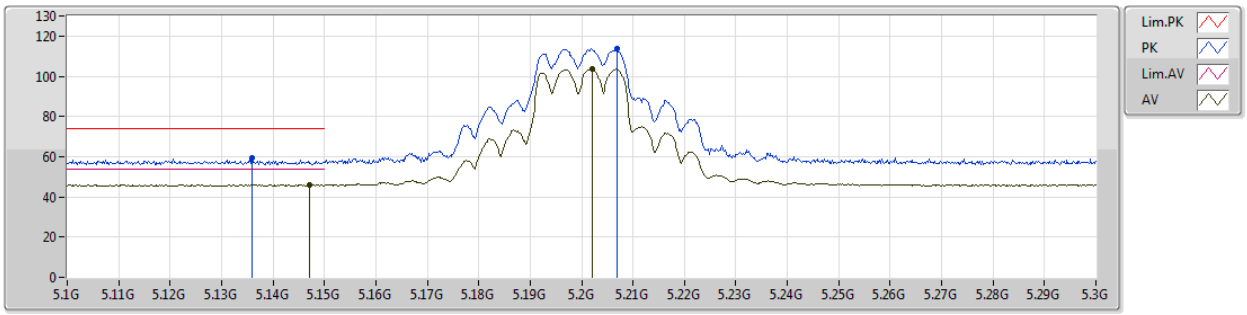
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.14G	59.22	74.00	-14.78	5.82	3	Vertical	183	1.19	-
AV	5.136G	45.87	54.00	-8.13	5.81	3	Vertical	183	1.19	-
PK	5.2056G	110.16	Inf	-Inf	5.99	3	Vertical	183	1.19	-
AV	5.201G	99.63	Inf	-Inf	5.97	3	Vertical	183	1.19	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

28/12/2018



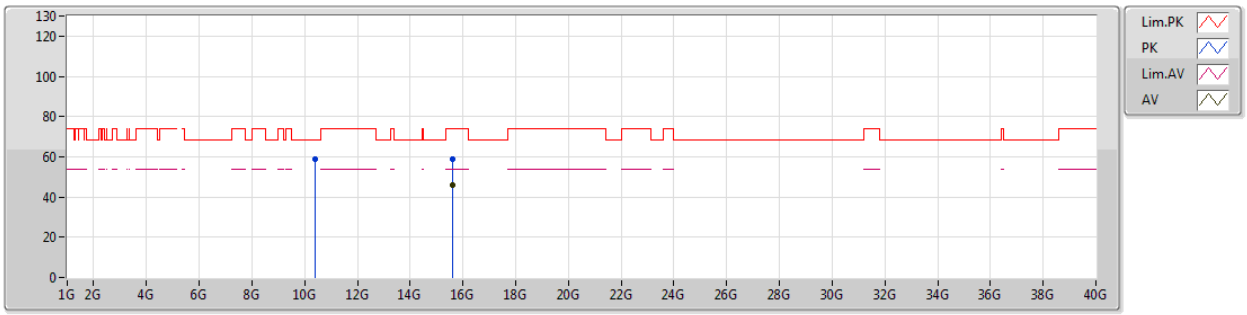
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.136G	59.15	74.00	-14.85	5.81	3	Horizontal	296	2.17	-
AV	5.147G	46.09	54.00	-7.91	5.84	3	Horizontal	296	2.17	-
PK	5.2068G	113.66	Inf	-Inf	5.99	3	Horizontal	296	2.17	-
AV	5.202G	103.49	Inf	-Inf	5.97	3	Horizontal	296	2.17	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

28/12/2018



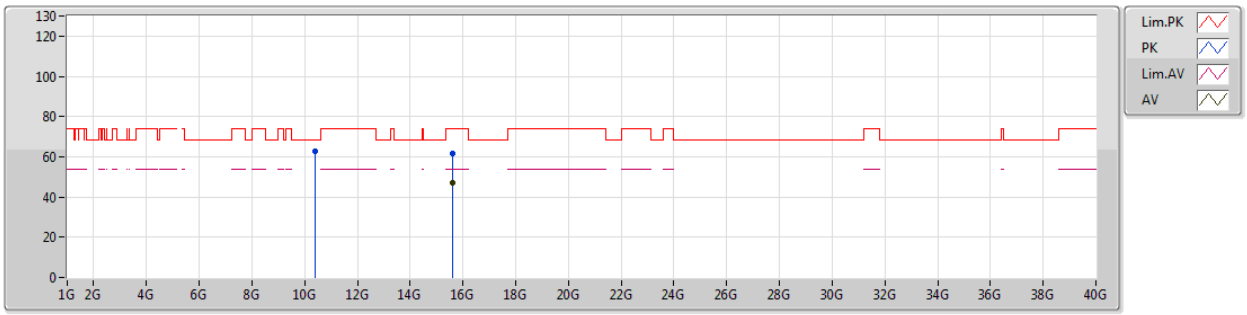
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.40135G	59.04	68.20	-9.16	13.03	3	Vertical	26	2.34	-
PK	15.61185G	58.77	74.00	-15.23	15.31	3	Vertical	351	1.59	-
AV	15.6006G	45.87	54.00	-8.13	15.35	3	Vertical	351	1.59	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

28/12/2018



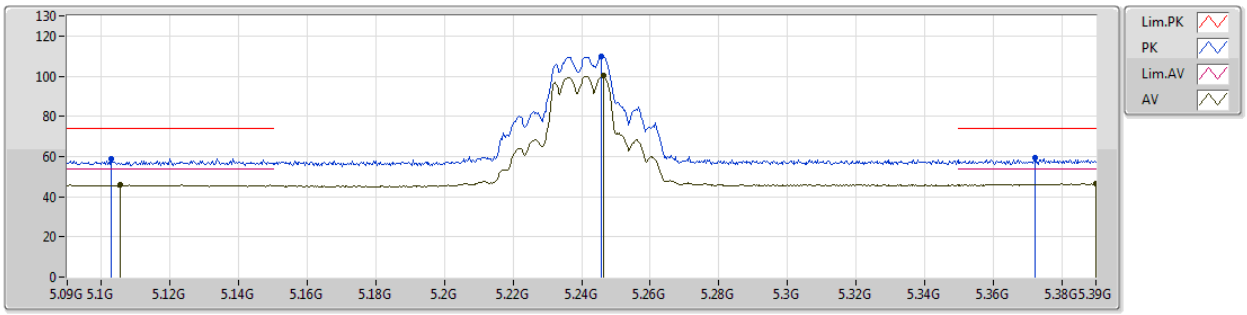
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.4006G	62.70	68.20	-5.50	13.03	3	Horizontal	49	2.15	-
PK	15.60745G	61.60	74.00	-12.40	15.32	3	Horizontal	305	1.50	-
AV	15.6015G	47.16	54.00	-6.84	15.35	3	Horizontal	305	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

28/12/2018



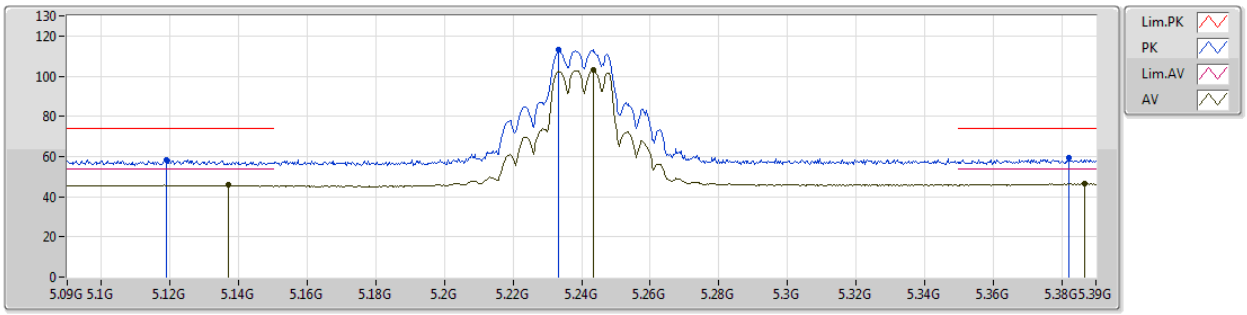
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.1029G	59.00	74.00	-15.00	5.73	3	Vertical	184	1.20	-
AV	5.1053G	45.86	54.00	-8.14	5.73	3	Vertical	184	1.20	-
PK	5.2457G	109.86	Inf	-Inf	6.10	3	Vertical	184	1.20	-
AV	5.2463G	100.21	Inf	-Inf	6.10	3	Vertical	184	1.20	-
PK	5.3723G	59.36	74.00	-14.64	6.45	3	Vertical	184	1.20	-
AV	5.39G	46.55	54.00	-7.45	6.49	3	Vertical	184	1.20	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

28/12/2018



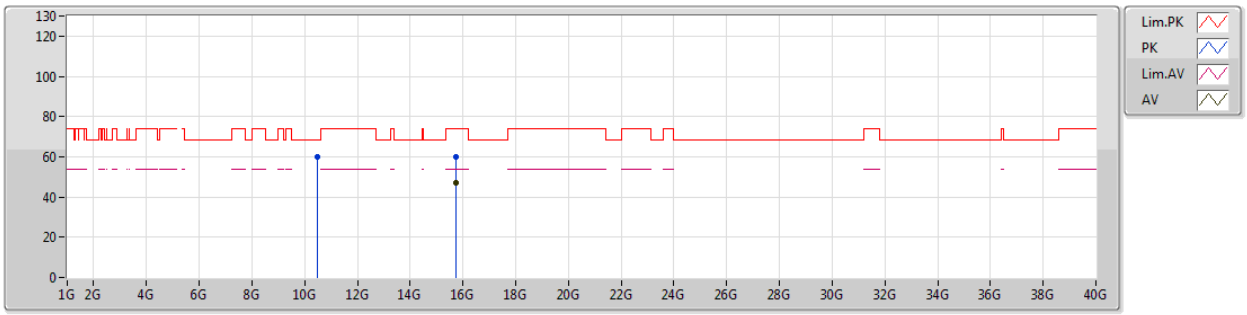
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.1188G	58.39	74.00	-15.61	5.77	3	Horizontal	68	2.69	-
AV	5.1371G	45.87	54.00	-8.13	5.82	3	Horizontal	68	2.69	-
PK	5.2331G	112.99	Inf	-Inf	6.07	3	Horizontal	68	2.69	-
AV	5.2433G	103.08	Inf	-Inf	6.10	3	Horizontal	68	2.69	-
PK	5.3822G	59.22	74.00	-14.78	6.47	3	Horizontal	68	2.69	-
AV	5.3867G	46.44	54.00	-7.56	6.49	3	Horizontal	68	2.69	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

28/12/2018



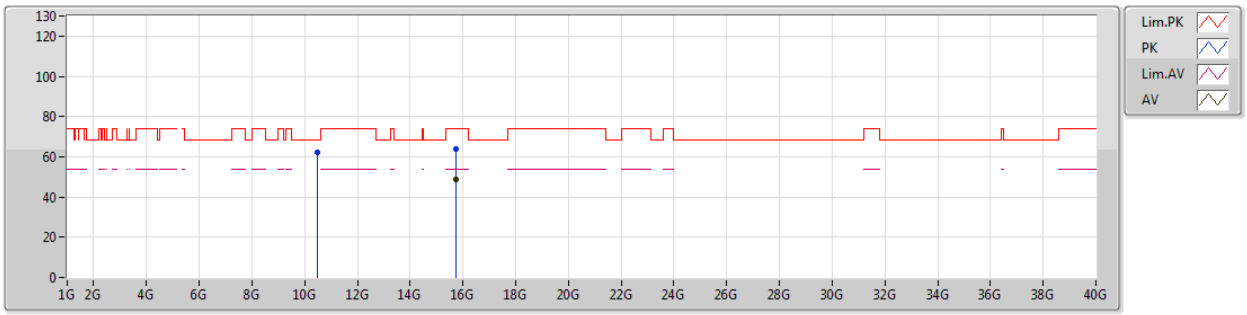
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.4807G	60.19	68.20	-8.01	13.15	3	Vertical	324	2.97	-
PK	15.73795G	59.95	74.00	-14.05	14.85	3	Vertical	4	2.74	-
AV	15.7258G	47.04	54.00	-6.96	14.90	3	Vertical	4	2.74	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

28/12/2018



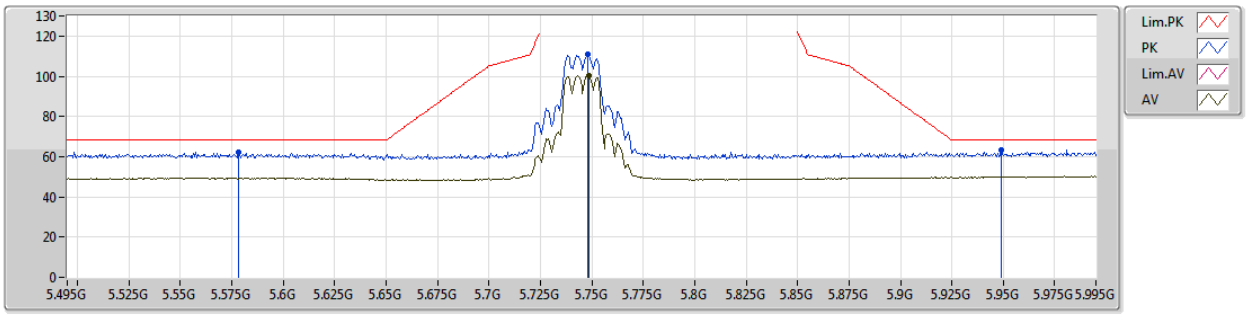
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.48045G	62.14	68.20	-6.06	13.15	3	Horizontal	50	2.19	-
PK	15.72155G	64.14	74.00	-9.86	14.92	3	Horizontal	296	2.44	-
AV	15.72115G	49.02	54.00	-4.98	14.92	3	Horizontal	296	2.44	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

02/01/2019



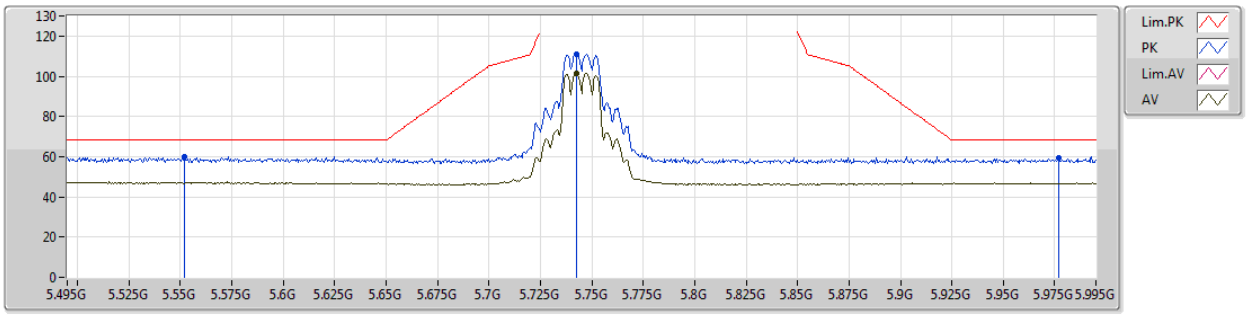
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.578G	62.16	68.20	-6.04	9.29	3	Vertical	34	1.01	-
PK	5.748G	110.73	Inf	-Inf	9.37	3	Vertical	34	1.01	-
AV	5.7485G	100.48	Inf	-Inf	9.37	3	Vertical	34	1.01	-
PK	5.949G	63.26	68.20	-4.94	10.34	3	Vertical	34	1.01	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

28/12/2018



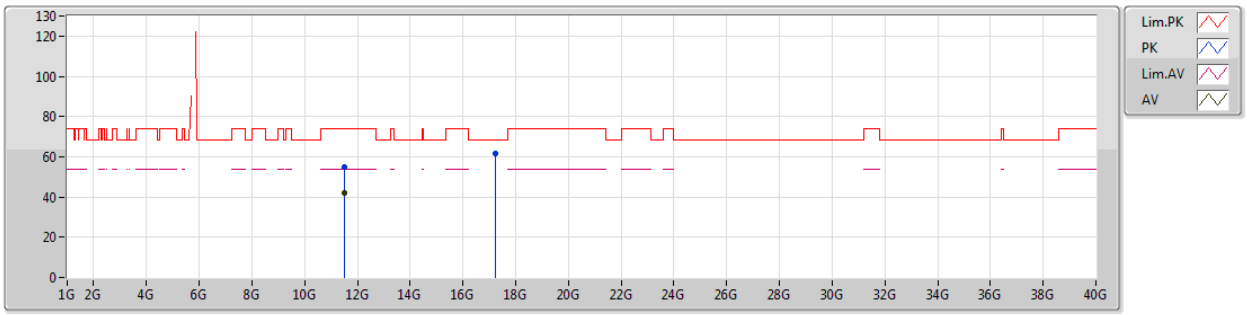
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.552G	59.94	68.20	-8.26	6.68	3	Horizontal	56	1.01	-
PK	5.7425G	111.20	Inf	-Inf	6.86	3	Horizontal	56	1.01	-
AV	5.7425G	101.41	Inf	-Inf	6.86	3	Horizontal	56	1.01	-
PK	5.977G	59.35	68.20	-8.85	7.06	3	Horizontal	56	1.01	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

28/12/2018



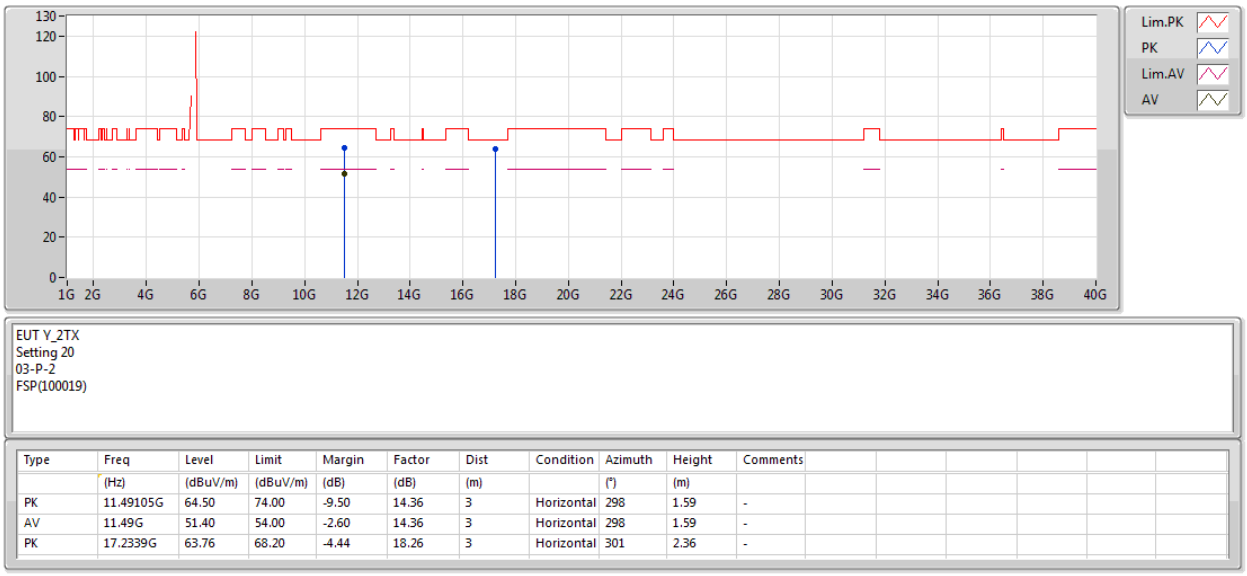
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.4945G	55.07	74.00	-18.93	14.37	3	Vertical	197	1.02	-
AV	11.508G	41.89	54.00	-12.11	14.39	3	Vertical	197	1.02	-
PK	17.21545G	61.82	68.20	-6.38	18.18	3	Vertical	171	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

28/12/2018



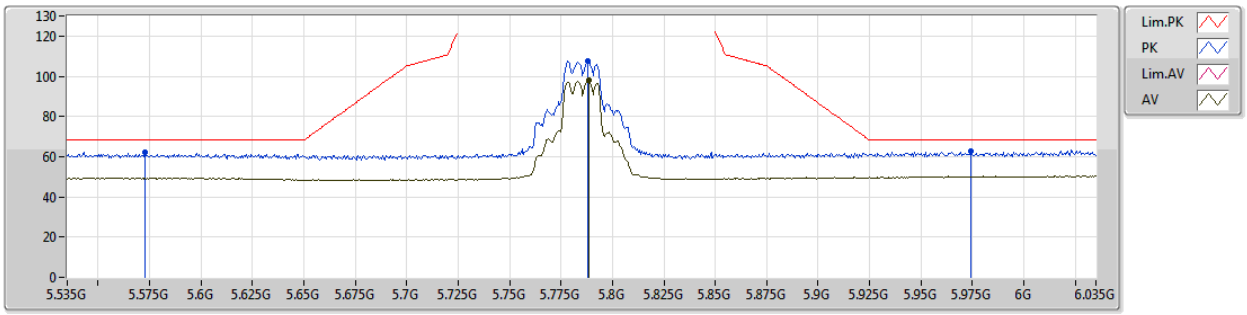
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.49105G	64.50	74.00	-9.50	14.36	3	Horizontal	298	1.59	-
AV	11.49G	51.40	54.00	-2.60	14.36	3	Horizontal	298	1.59	-
PK	17.2339G	63.76	68.20	-4.44	18.26	3	Horizontal	301	2.36	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

02/01/2019



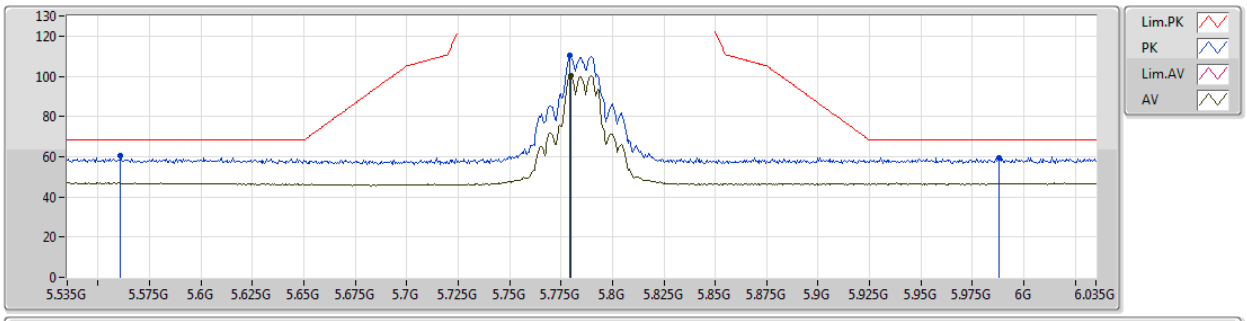
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.573G	62.20	68.20	-6.00	9.28	3	Vertical	171	2.99	-
PK	5.788G	107.49	Inf	-Inf	9.40	3	Vertical	171	2.99	-
AV	5.7885G	97.82	Inf	-Inf	9.40	3	Vertical	171	2.99	-
PK	5.974G	62.49	68.20	-5.71	10.51	3	Vertical	171	2.99	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

28/12/2018



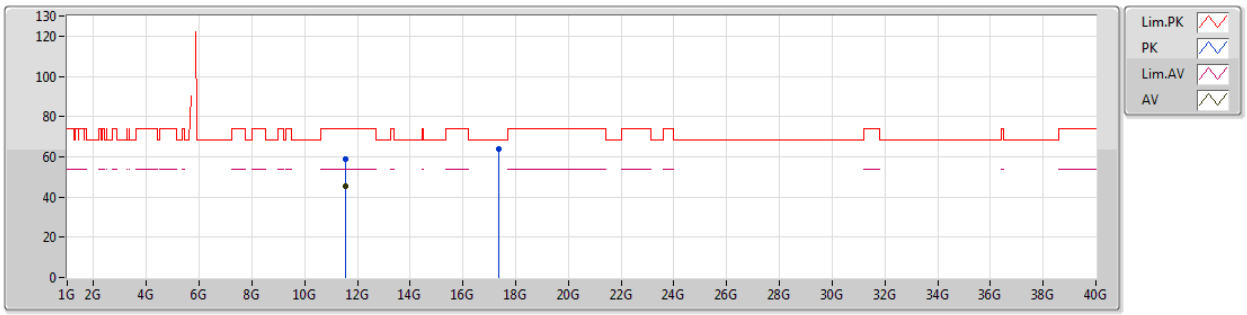
EUT Y_2TX
Setting 20
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.561G	60.49	68.20	-7.71	6.68	3	Horizontal	71	1.47	-
PK	5.7795G	110.14	Inf	-Inf	6.90	3	Horizontal	71	1.47	-
AV	5.78G	100.20	Inf	-Inf	6.90	3	Horizontal	71	1.47	-
PK	5.988G	59.31	68.20	-8.89	7.07	3	Horizontal	71	1.47	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

28/12/2018



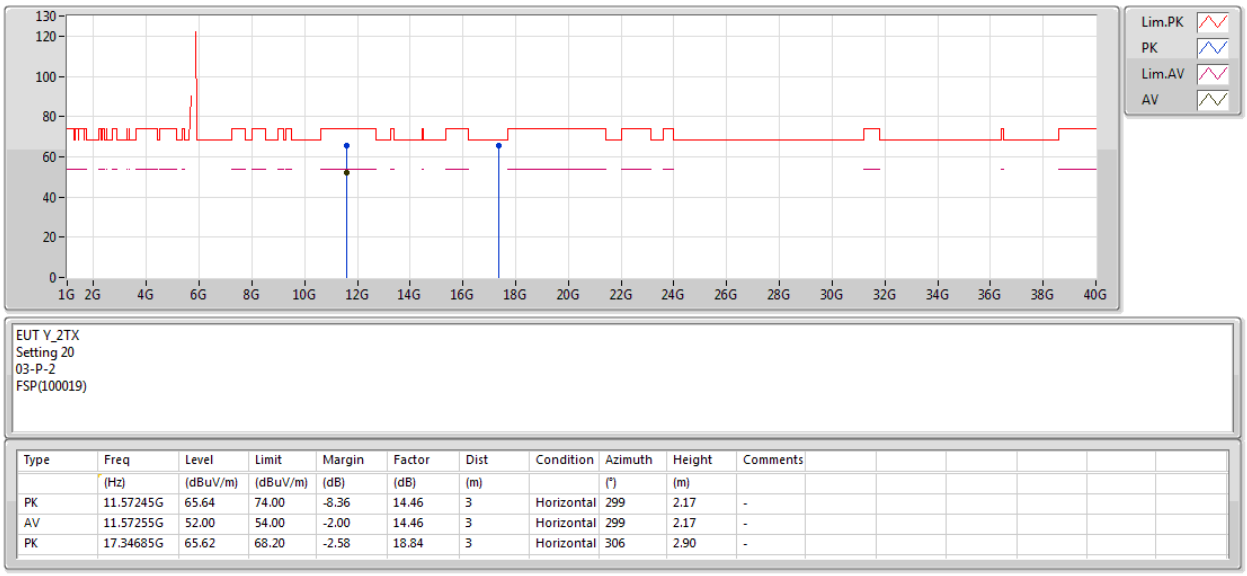
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.57115G	59.09	74.00	-14.91	14.46	3	Vertical	27	1.28	-
AV	11.5704G	45.38	54.00	-8.62	14.46	3	Vertical	27	1.28	-
PK	17.3772G	63.71	68.20	-4.49	19.00	3	Vertical	216	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

28/12/2018



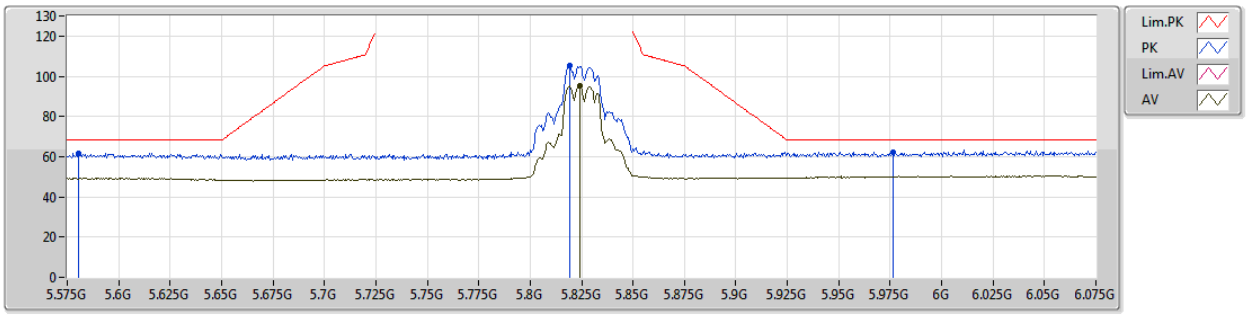
EUT Y_2TX
Setting 20
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.57245G	65.64	74.00	-8.36	14.46	3	Horizontal	299	2.17	-
AV	11.57255G	52.00	54.00	-2.00	14.46	3	Horizontal	299	2.17	-
PK	17.34685G	65.62	68.20	-2.58	18.84	3	Horizontal	306	2.90	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

02/01/2019



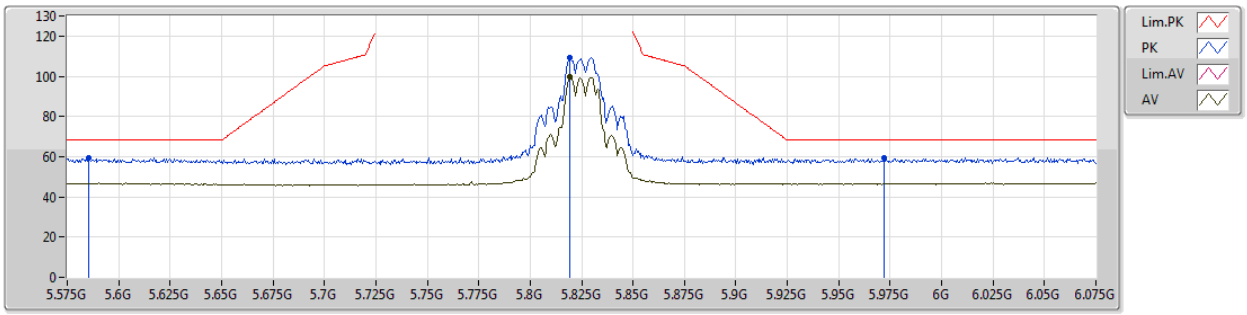
EUT Y_2TX
Setting 19.5
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.5805G	61.70	68.20	-6.50	9.29	3	Vertical	174	1.41	-
PK	5.819G	105.39	Inf	-Inf	9.52	3	Vertical	174	1.41	-
AV	5.824G	95.53	Inf	-Inf	9.56	3	Vertical	174	1.41	-
PK	5.9765G	62.36	68.20	-5.84	10.52	3	Vertical	174	1.41	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

28/12/2018



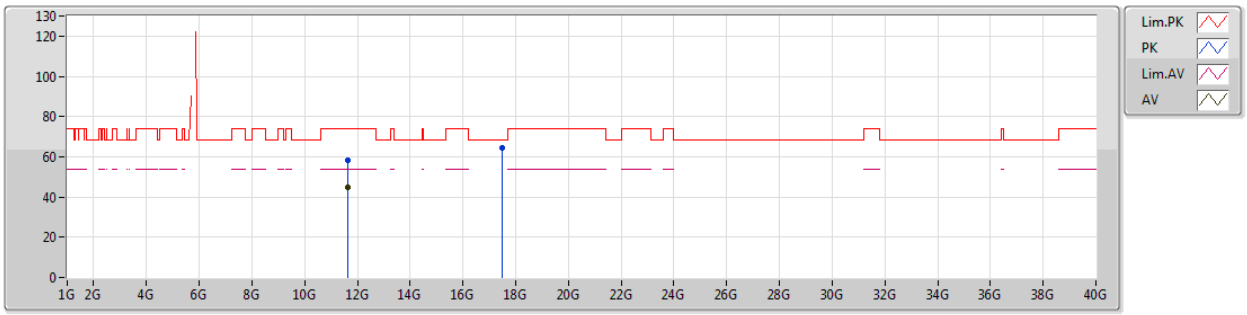
EUT Y_2TX
Setting 19.5
03-P-2-10
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.5855G	59.57	68.20	-8.63	6.69	3	Horizontal	70	1.46	-
PK	5.8195G	109.44	Inf	-Inf	6.93	3	Horizontal	70	1.46	-
AV	5.8195G	99.76	Inf	-Inf	6.93	3	Horizontal	70	1.46	-
PK	5.972G	59.14	68.20	-9.06	7.05	3	Horizontal	70	1.46	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

28/12/2018



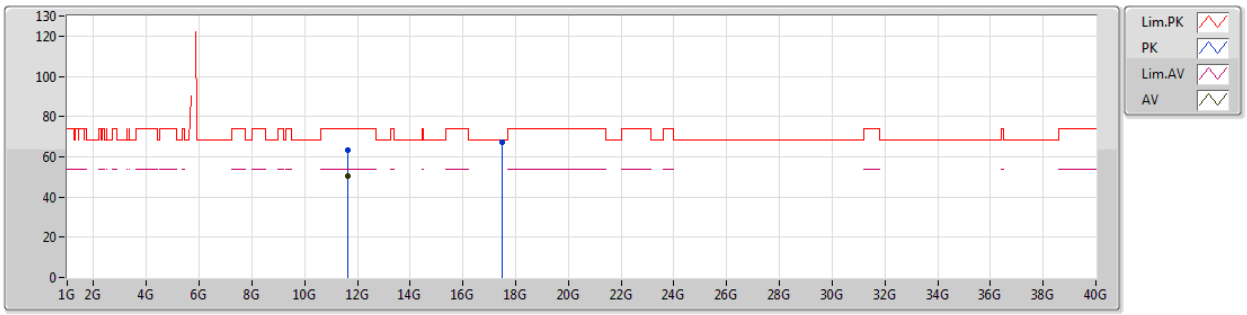
EUT Y_2TX
Setting 19.5
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.6561G	58.04	74.00	-15.96	14.54	3	Vertical	9	1.50	-
AV	11.65205G	44.62	54.00	-9.38	14.54	3	Vertical	9	1.50	-
PK	17.4747G	64.52	68.20	-3.68	19.49	3	Vertical	319	1.05	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

28/12/2018



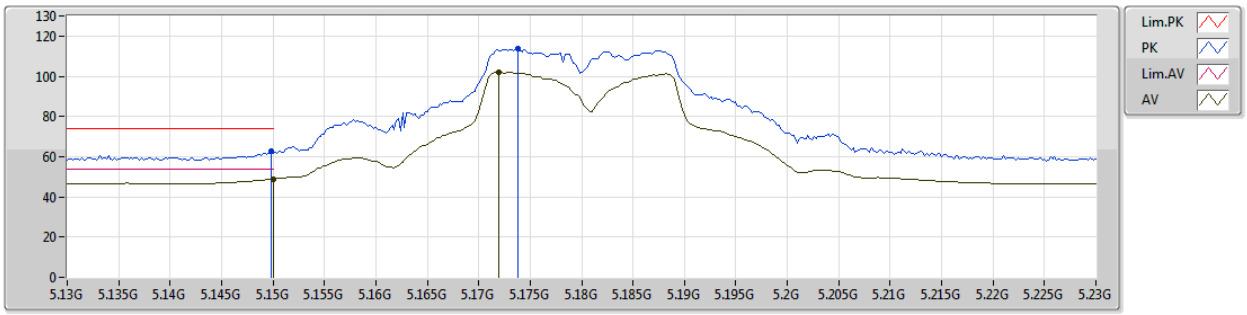
EUT Y_2TX
Setting 19.5
03-P-2
FSP(100019)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.64435G	63.45	74.00	-10.55	14.54	3	Horizontal	296	2.16	-
AV	11.6483G	50.46	54.00	-3.54	14.54	3	Horizontal	296	2.16	-
PK	17.4763G	67.29	68.20	-0.91	19.50	3	Horizontal	44	2.66	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

02/01/2019



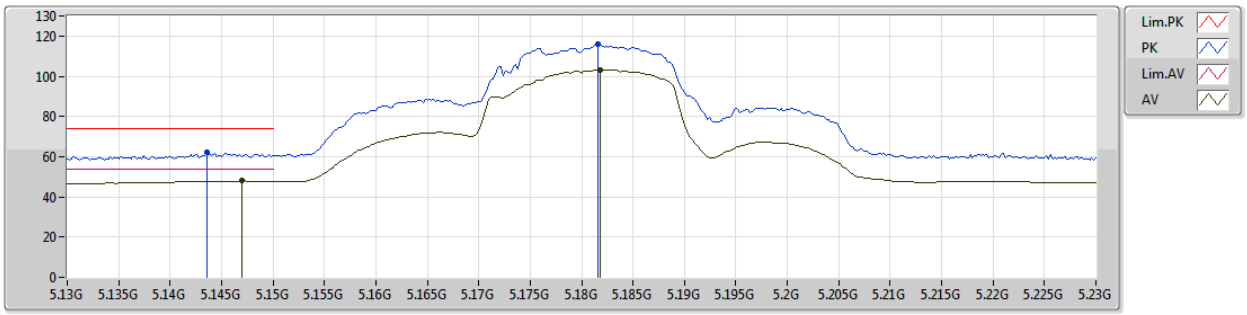
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.1498G	62.56	74.00	-11.44	7.85	3	Vertical	14	2.99	-
AV	5.15G	48.94	54.00	-5.06	7.85	3	Vertical	14	2.99	-
PK	5.1738G	113.65	Inf	-Inf	7.89	3	Vertical	14	2.99	-
AV	5.172G	102.01	Inf	-Inf	7.89	3	Vertical	14	2.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

02/01/2019



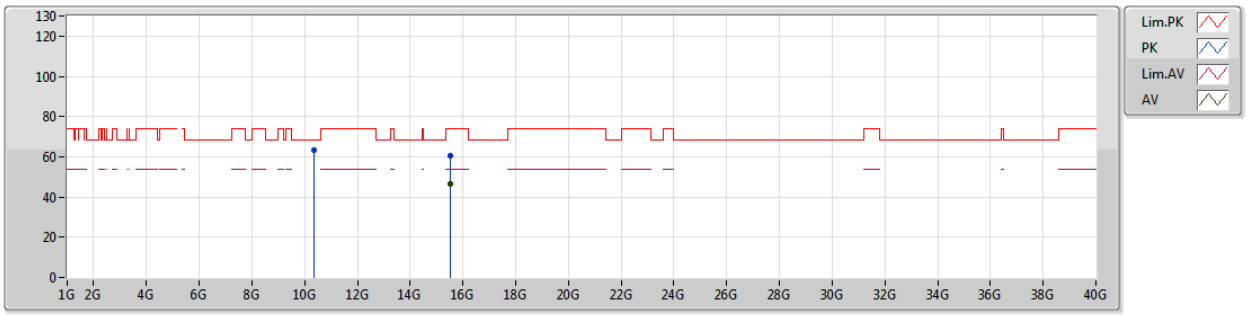
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.1436G	61.95	74.00	-12.05	7.84	3	Horizontal	295	2.90	-
AV	5.147G	47.96	54.00	-6.04	7.85	3	Horizontal	295	2.90	-
PK	5.1816G	115.91	Inf	-Inf	7.90	3	Horizontal	295	2.90	-
AV	5.1818G	103.33	Inf	-Inf	7.90	3	Horizontal	295	2.90	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

02/01/2019



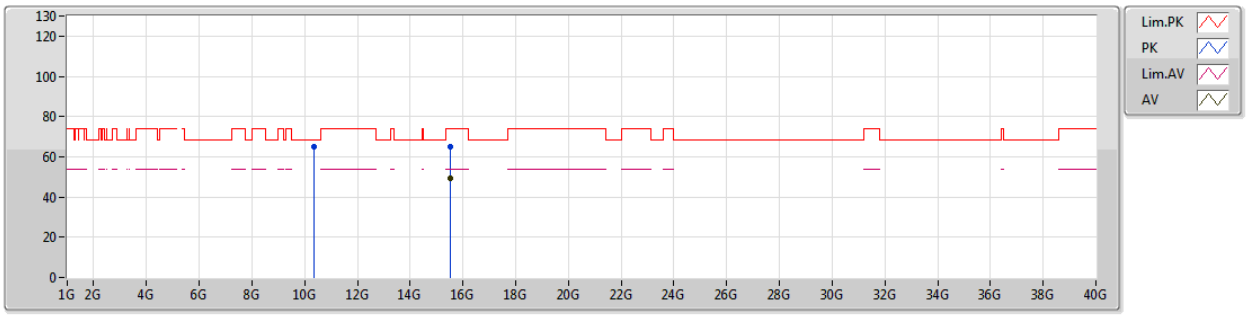
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.36264G	63.12	68.20	-5.08	15.11	3	Vertical	331	2.97	-
PK	15.53108G	60.48	74.00	-13.52	16.02	3	Vertical	360	1.51	-
AV	15.53G	46.47	54.00	-7.53	16.02	3	Vertical	360	1.51	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

02/01/2019



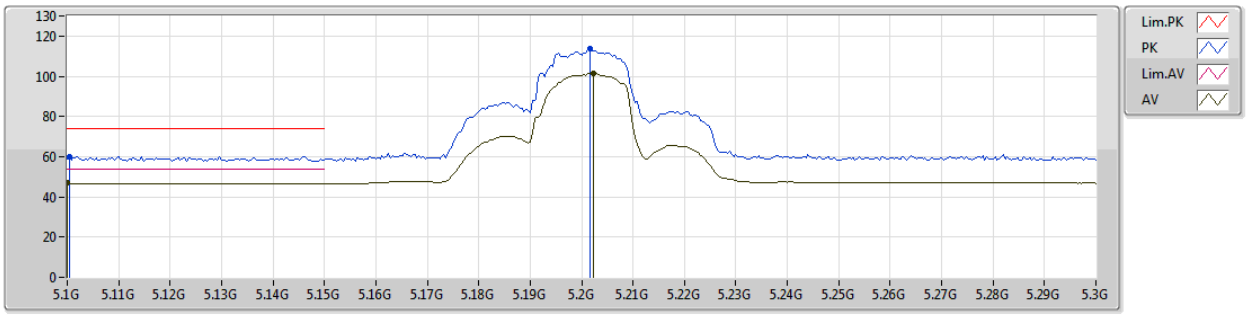
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.36024G	65.28	68.20	-2.92	15.11	3	Horizontal	298	2.34	-
PK	15.53848G	64.86	74.00	-9.14	16.02	3	Horizontal	312	1.76	-
AV	15.53564G	49.10	54.00	-4.90	16.02	3	Horizontal	312	1.76	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

02/01/2019



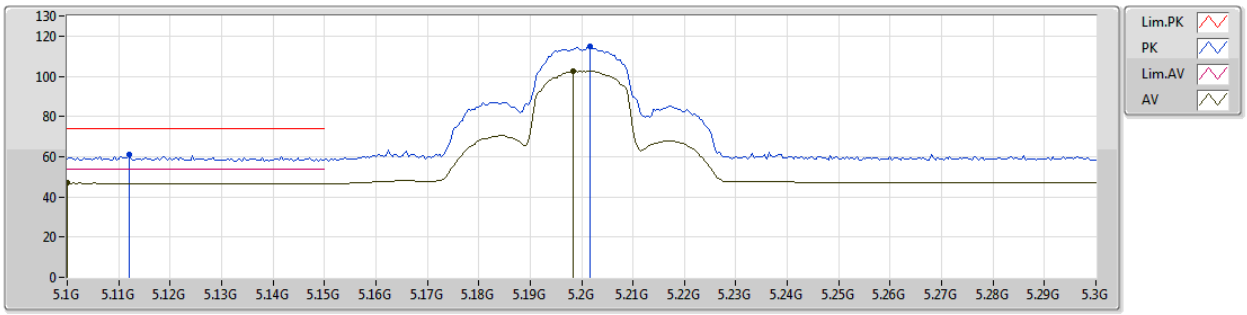
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.1004G	60.22	74.00	-13.78	7.79	3	Vertical	345	2.99	-
AV	5.1G	46.79	54.00	-7.21	7.79	3	Vertical	345	2.99	-
PK	5.2016G	113.59	Inf	-Inf	7.93	3	Vertical	345	2.99	-
AV	5.2024G	101.21	Inf	-Inf	7.93	3	Vertical	345	2.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

02/01/2019



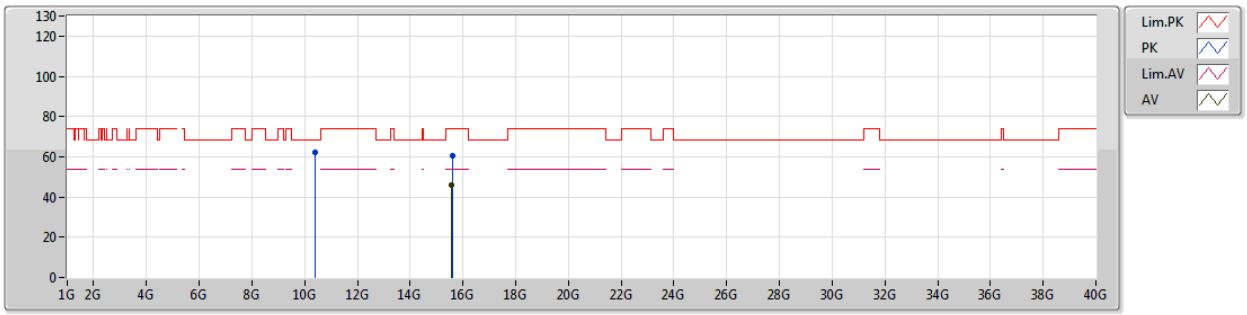
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.112G	61.10	74.00	-12.90	7.80	3	Horizontal	293	2.91	-
AV	5.1G	46.80	54.00	-7.20	7.79	3	Horizontal	293	2.91	-
PK	5.2016G	115.07	Inf	-Inf	7.93	3	Horizontal	293	2.91	-
AV	5.1984G	102.54	Inf	-Inf	7.93	3	Horizontal	293	2.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

02/01/2019



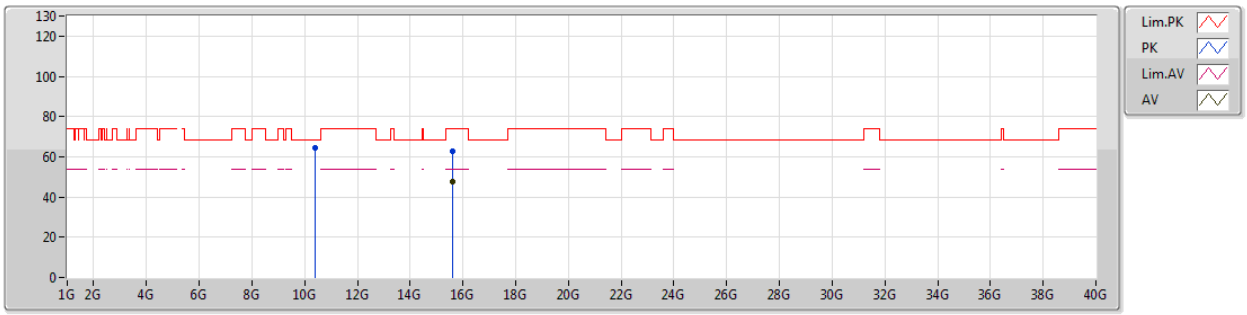
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.4024G	62.39	68.20	-5.81	15.12	3	Vertical	327	2.65	-
PK	15.58815G	60.65	74.00	-13.35	15.99	3	Vertical	346	1.50	-
AV	15.5875G	45.89	54.00	-8.11	15.99	3	Vertical	346	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

14/01/2019



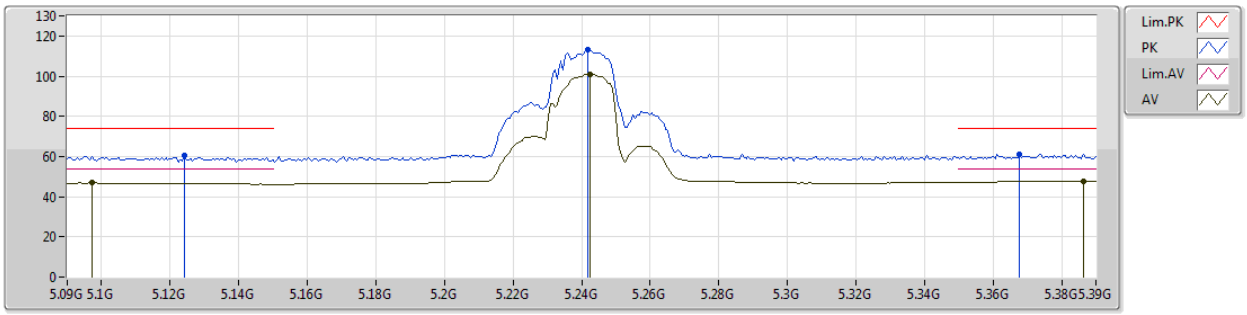
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.4025G	64.42	68.20	-3.78	15.12	3	Horizontal	50	2.20	-
PK	15.58815G	62.66	74.00	-11.34	15.99	3	Horizontal	310	1.72	-
AV	15.60425G	47.35	54.00	-6.65	15.98	3	Horizontal	310	1.72	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

14/01/2019



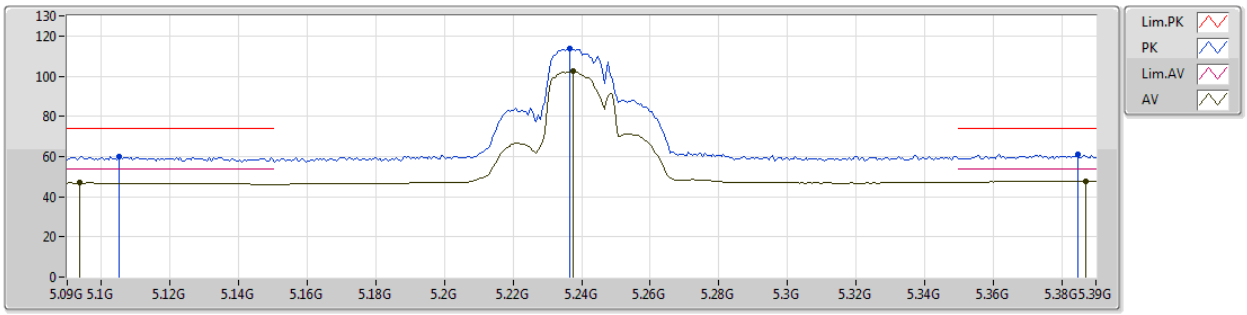
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.1242G	60.52	74.00	-13.48	7.82	3	Vertical	346	2.93	-
AV	5.0972G	46.80	54.00	-7.20	7.79	3	Vertical	346	2.93	-
PK	5.2418G	113.27	Inf	-Inf	8.09	3	Vertical	346	2.93	-
AV	5.2424G	100.90	Inf	-Inf	8.09	3	Vertical	346	2.93	-
PK	5.3678G	61.10	74.00	-12.90	8.63	3	Vertical	346	2.93	-
AV	5.3864G	47.67	54.00	-6.33	8.73	3	Vertical	346	2.93	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

14/01/2019



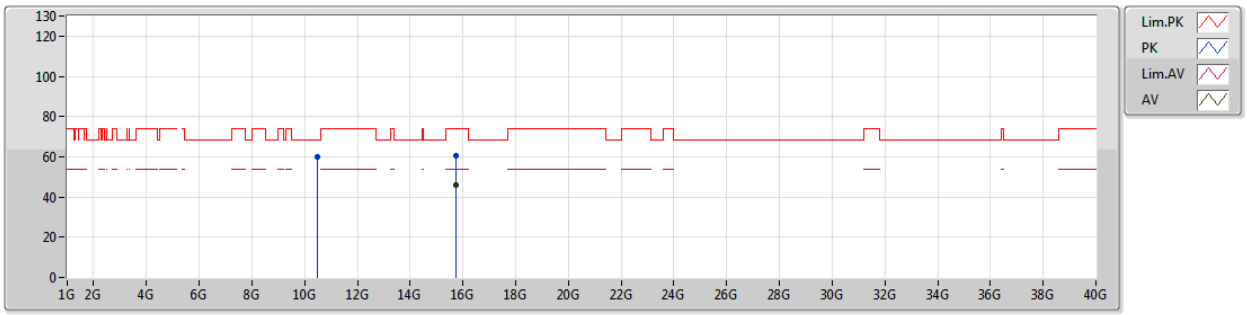
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.105G	60.07	74.00	-13.93	7.80	3	Horizontal	57	2.94	-
AV	5.0936G	46.82	54.00	-7.18	7.80	3	Horizontal	57	2.94	-
PK	5.2364G	113.64	Inf	-Inf	8.07	3	Horizontal	57	2.94	-
AV	5.2376G	102.29	Inf	-Inf	8.08	3	Horizontal	57	2.94	-
PK	5.3846G	61.31	74.00	-12.69	8.72	3	Horizontal	57	2.94	-
AV	5.387G	47.72	54.00	-6.28	8.73	3	Horizontal	57	2.94	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

02/01/2019



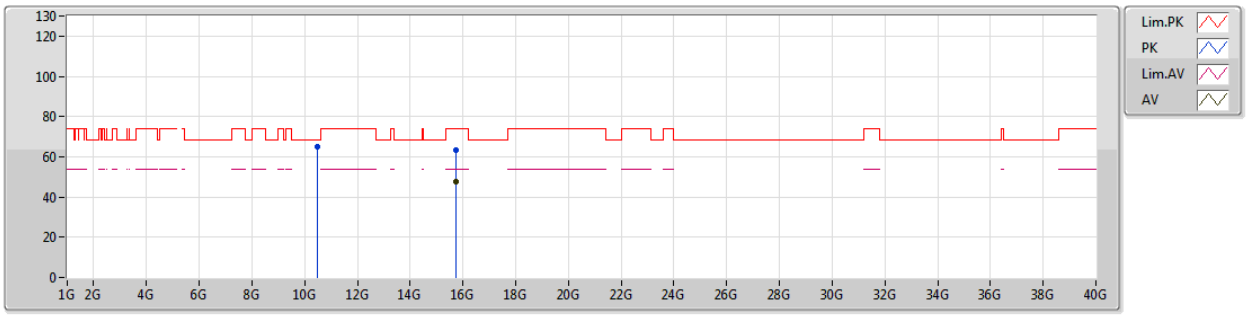
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.4792G	60.16	68.20	-8.04	15.15	3	Vertical	37	2.90	-
PK	15.72195G	60.57	74.00	-13.43	15.91	3	Vertical	360	1.60	-
AV	15.72465G	45.69	54.00	-8.31	15.91	3	Vertical	360	1.60	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

02/01/2019



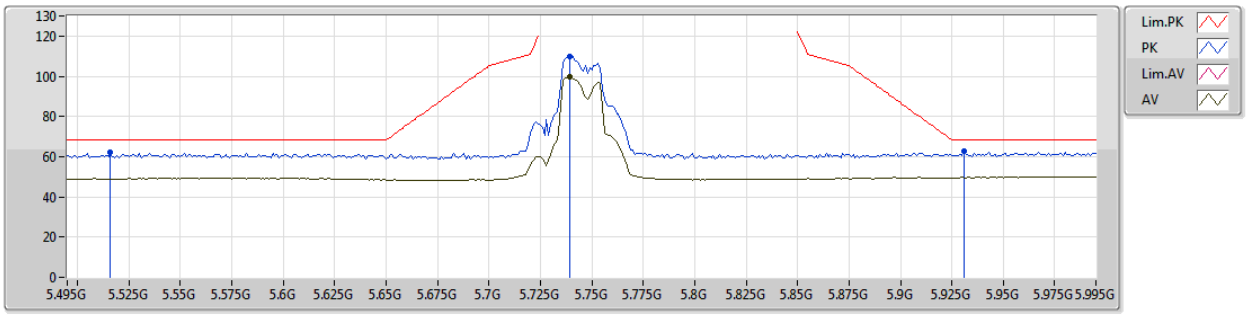
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.47915G	65.13	68.20	-3.07	15.15	3	Horizontal	55	2.28	-
PK	15.726G	63.25	74.00	-10.75	15.91	3	Horizontal	307	1.65	-
AV	15.72465G	47.68	54.00	-6.32	15.91	3	Horizontal	307	1.65	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

03/01/2019



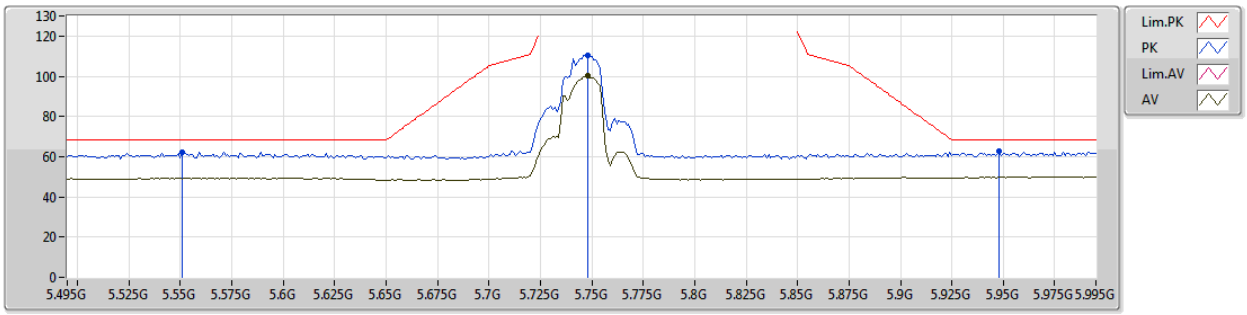
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.516G	62.11	68.20	-6.09	9.19	3	Vertical	32	1.01	-
PK	5.739G	109.66	Inf	-Inf	9.36	3	Vertical	32	1.01	-
AV	5.739G	99.50	Inf	-Inf	9.36	3	Vertical	32	1.01	-
PK	5.931G	62.54	68.20	-5.66	10.23	3	Vertical	32	1.01	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

03/01/2019



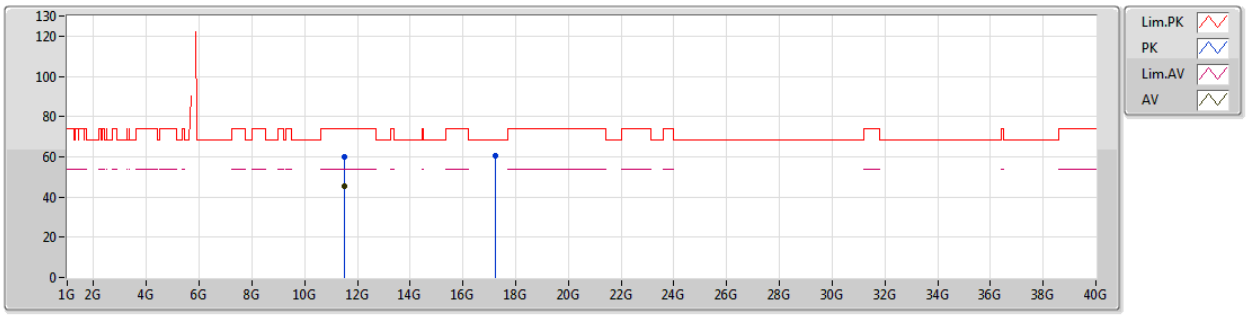
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.551G	62.24	68.20	-5.96	9.24	3	Horizontal	62	1.50	-
PK	5.748G	110.46	Inf	-Inf	9.37	3	Horizontal	62	1.50	-
AV	5.748G	100.04	Inf	-Inf	9.37	3	Horizontal	62	1.50	-
PK	5.948G	62.73	68.20	-5.47	10.34	3	Horizontal	62	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

03/01/2019



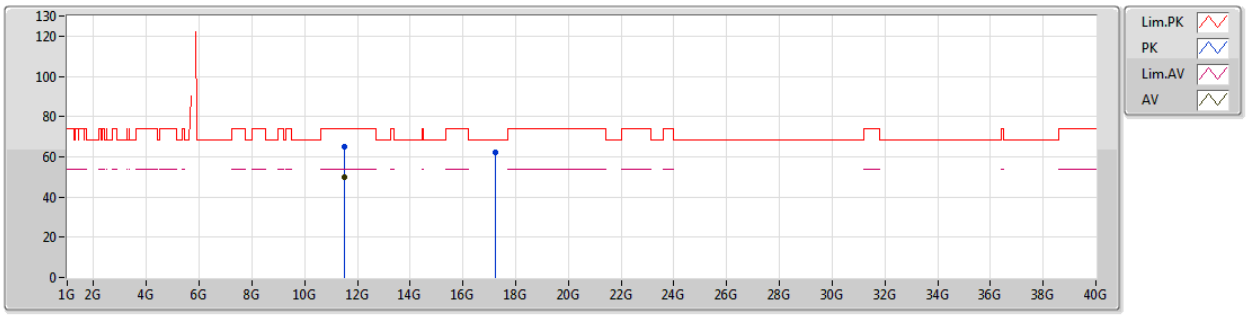
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.48965G	59.80	74.00	-14.20	15.20	3	Vertical	22	1.50	-
AV	11.49335G	45.29	54.00	-8.71	15.20	3	Vertical	22	1.50	-
PK	17.2234G	60.54	68.20	-7.66	18.14	3	Vertical	3	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

03/01/2019



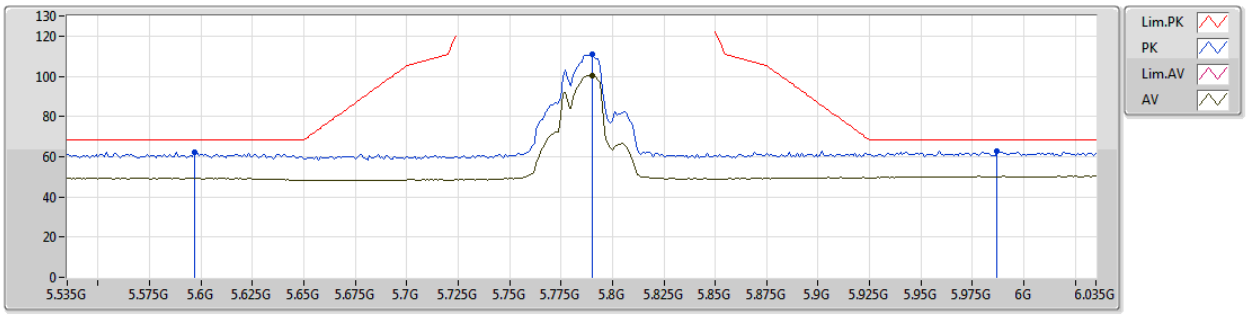
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.48915G	64.94	74.00	-9.06	15.20	3	Horizontal	298	1.64	-
AV	11.4898G	49.67	54.00	-4.33	15.20	3	Horizontal	298	1.64	-
PK	17.23065G	62.17	68.20	-6.03	18.16	3	Horizontal	310	1.69	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

03/01/2019



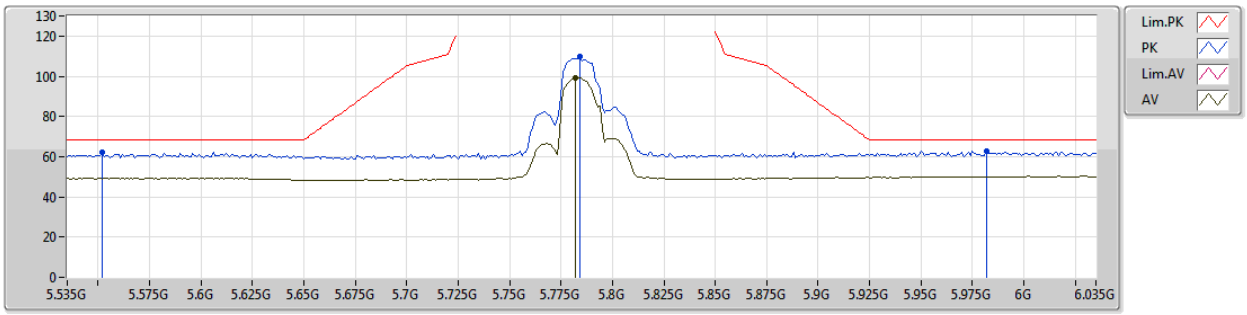
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.597G	62.35	68.20	-5.85	9.31	3	Vertical	35	2.93	-
PK	5.79G	110.89	Inf	-Inf	9.40	3	Vertical	35	2.93	-
AV	5.79G	100.54	Inf	-Inf	9.40	3	Vertical	35	2.93	-
PK	5.987G	62.92	68.20	-5.28	10.58	3	Vertical	35	2.93	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

03/01/2019



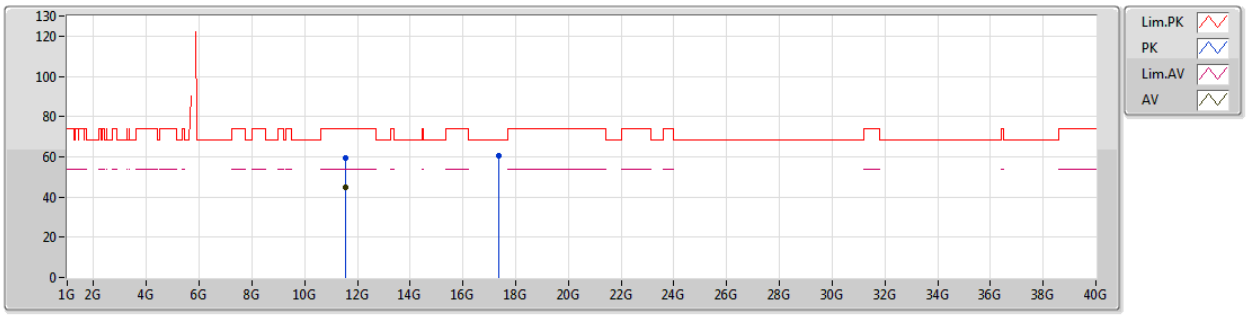
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.552G	62.22	68.20	-5.98	9.24	3	Horizontal	83	1.43	-
PK	5.784G	109.62	Inf	-Inf	9.40	3	Horizontal	83	1.43	-
AV	5.782G	99.31	Inf	-Inf	9.39	3	Horizontal	83	1.43	-
PK	5.982G	62.59	68.20	-5.61	10.56	3	Horizontal	83	1.43	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

03/01/2019



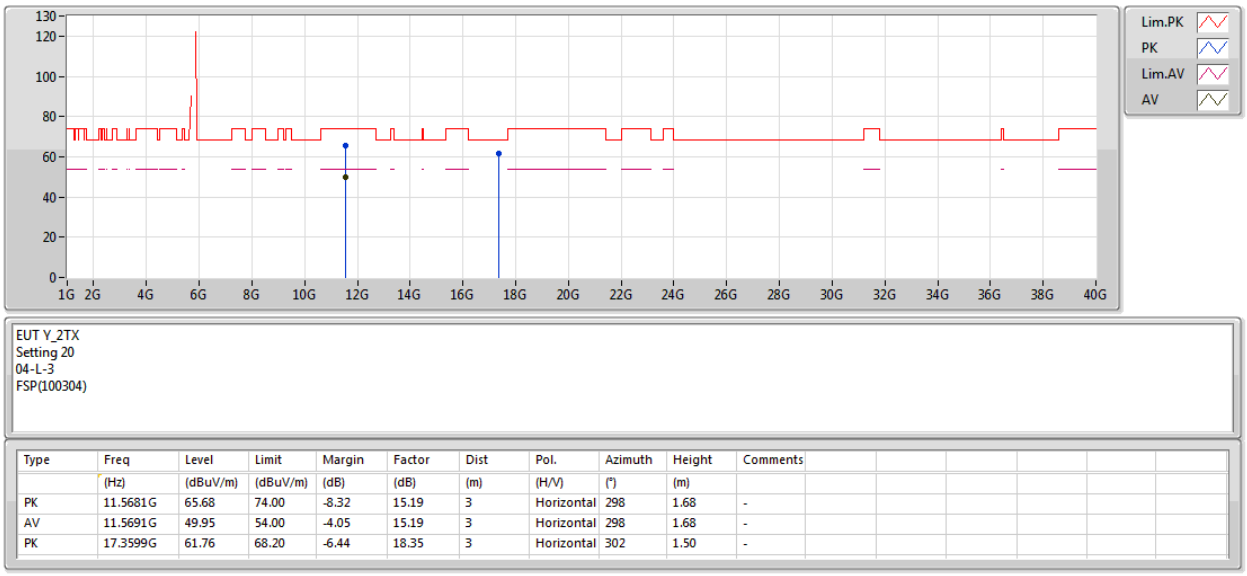
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.56905G	59.36	74.00	-14.64	15.19	3	Vertical	23	1.50	-
AV	11.56895G	44.81	54.00	-9.19	15.19	3	Vertical	23	1.50	-
PK	17.3431G	60.31	68.20	-7.89	18.32	3	Vertical	360	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

03/01/2019



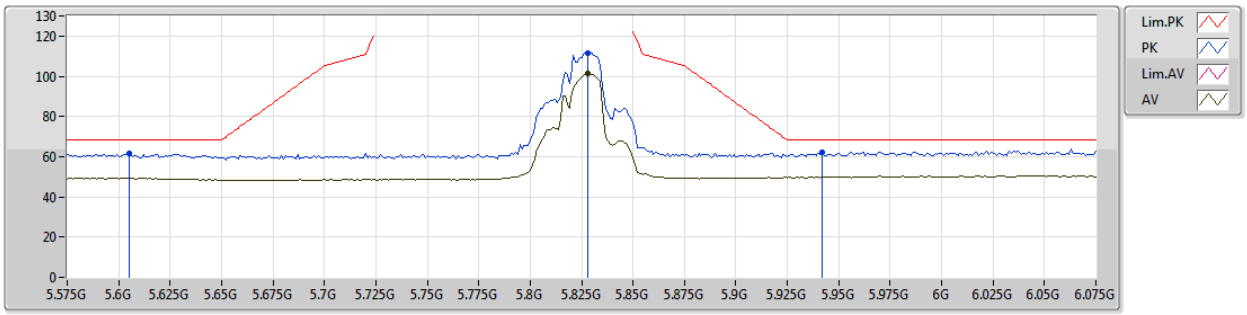
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.5681G	65.68	74.00	-8.32	15.19	3	Horizontal	298	1.68	-
AV	11.5691G	49.95	54.00	-4.05	15.19	3	Horizontal	298	1.68	-
PK	17.3599G	61.76	68.20	-6.44	18.35	3	Horizontal	302	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

03/01/2019



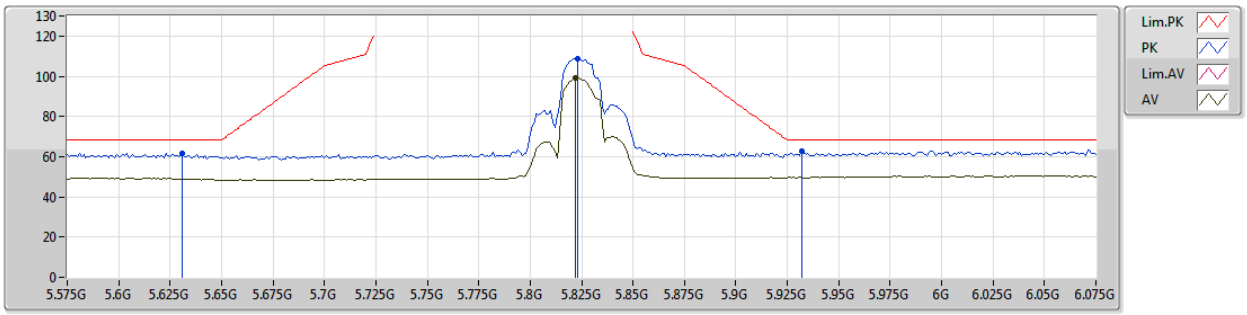
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.605G	61.44	68.20	-6.76	9.33	3	Vertical	38	2.90	-
PK	5.828G	111.68	Inf	-Inf	9.59	3	Vertical	38	2.90	-
AV	5.828G	101.19	Inf	-Inf	9.59	3	Vertical	38	2.90	-
PK	5.942G	62.09	68.20	-6.11	10.30	3	Vertical	38	2.90	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

03/01/2019



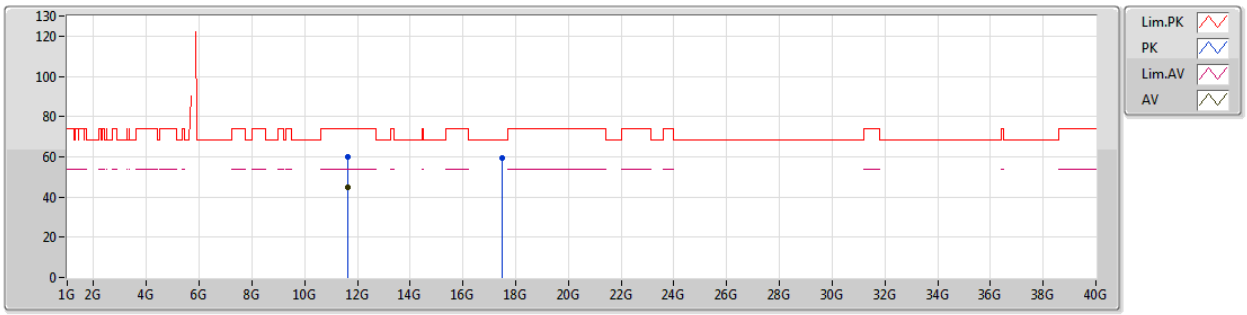
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.631G	61.60	68.20	-6.60	9.32	3	Horizontal	77	1.50	-
PK	5.823G	108.79	Inf	-Inf	9.56	3	Horizontal	77	1.50	-
AV	5.822G	99.12	Inf	-Inf	9.55	3	Horizontal	77	1.50	-
PK	5.932G	62.86	68.20	-5.34	10.24	3	Horizontal	77	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

03/01/2019



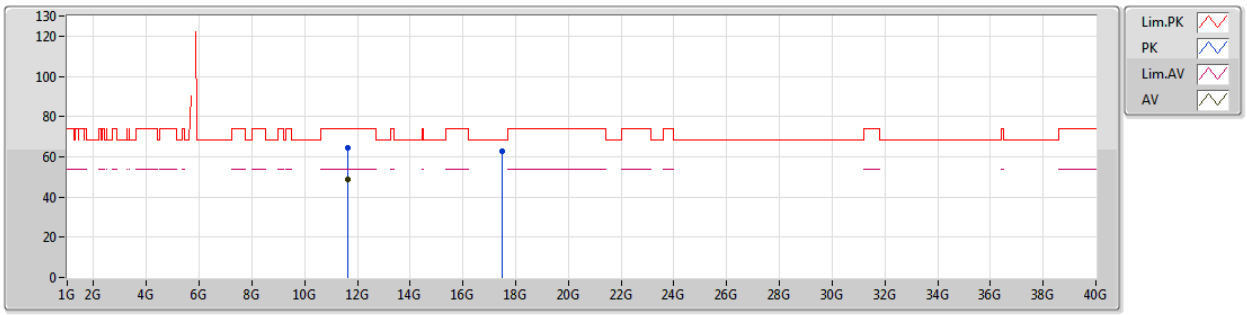
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.6553G	60.21	74.00	-13.79	15.17	3	Vertical	9	1.50	-
AV	11.6537G	44.66	54.00	-9.34	15.17	3	Vertical	9	1.50	-
PK	17.4674G	59.56	68.20	-8.64	18.51	3	Vertical	360	1.97	-

802.11ac VHT20_Nss1,(MCS0)_2TX

03/01/2019

5825MHz_TX



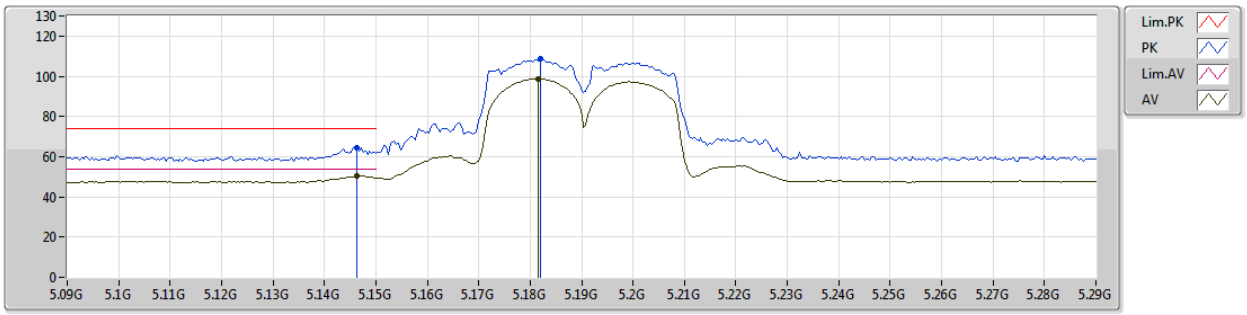
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.64405G	64.36	74.00	-9.64	15.16	3	Horizontal	297	2.20	-
AV	11.64465G	48.76	54.00	-5.24	15.16	3	Horizontal	297	2.20	-
PK	17.48145G	62.78	68.20	-5.42	18.54	3	Horizontal	313	1.99	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

03/01/2019



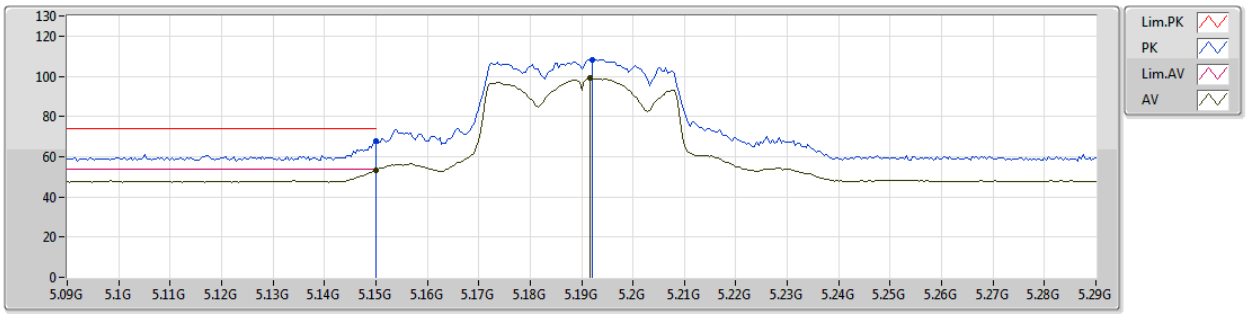
EUT Y_2TX
Setting 17
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.1464G	64.57	74.00	-9.43	7.85	3	Vertical	15	2.99	-
AV	5.1464G	50.61	54.00	-3.39	7.85	3	Vertical	15	2.99	-
PK	5.182G	108.52	Inf	-Inf	7.90	3	Vertical	15	2.99	-
AV	5.1816G	98.78	Inf	-Inf	7.90	3	Vertical	15	2.99	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

03/01/2019



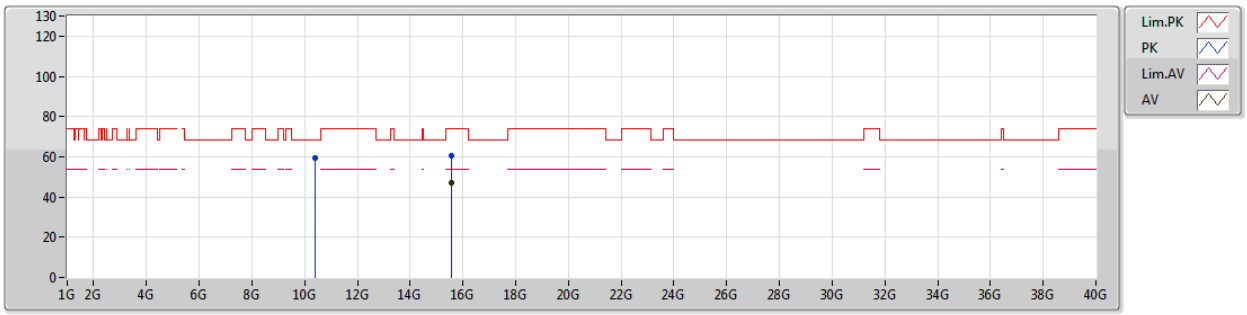
EUT Y_2TX
Setting 17
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.15G	67.85	74.00	-6.15	7.85	3	Horizontal	298	2.90	-
AV	5.15G	53.34	54.00	-0.66	7.85	3	Horizontal	298	2.90	-
PK	5.192G	108.19	Inf	-Inf	7.92	3	Horizontal	298	2.90	-
AV	5.1916G	99.06	Inf	-Inf	7.92	3	Horizontal	298	2.90	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

03/01/2019



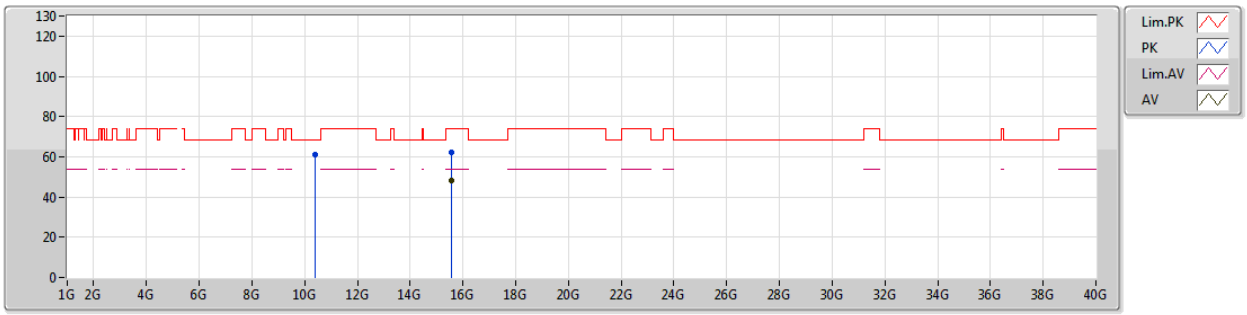
EUT Y_2TX
Setting 17
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.38805G	59.20	68.20	-9.00	15.12	3	Vertical	24	2.97	-
PK	15.57545G	60.34	74.00	-13.66	15.99	3	Vertical	12	1.50	-
AV	15.5759G	47.05	54.00	-6.95	15.99	3	Vertical	12	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

03/01/2019



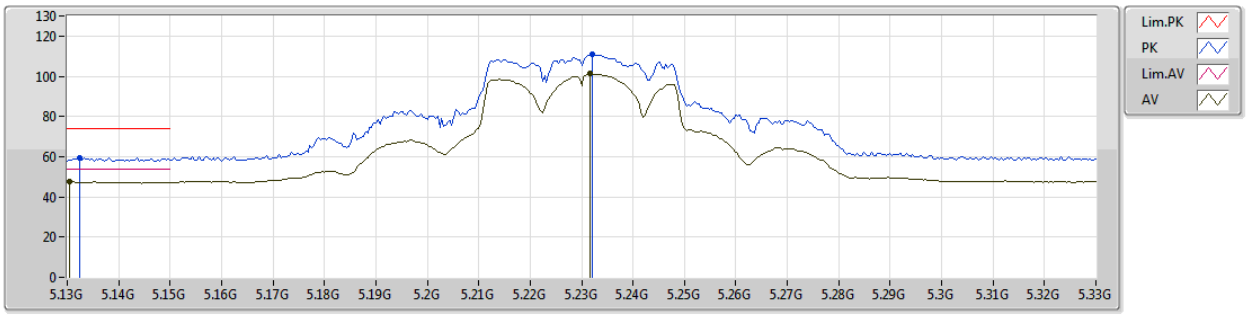
EUT Y_2TX
Setting 17
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.3796G	60.86	68.20	-7.34	15.12	3	Horizontal	50	2.90	-
PK	15.5609G	61.95	74.00	-12.05	16.00	3	Horizontal	309	1.70	-
AV	15.5665G	48.42	54.00	-5.58	16.00	3	Horizontal	309	1.70	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

03/01/2019



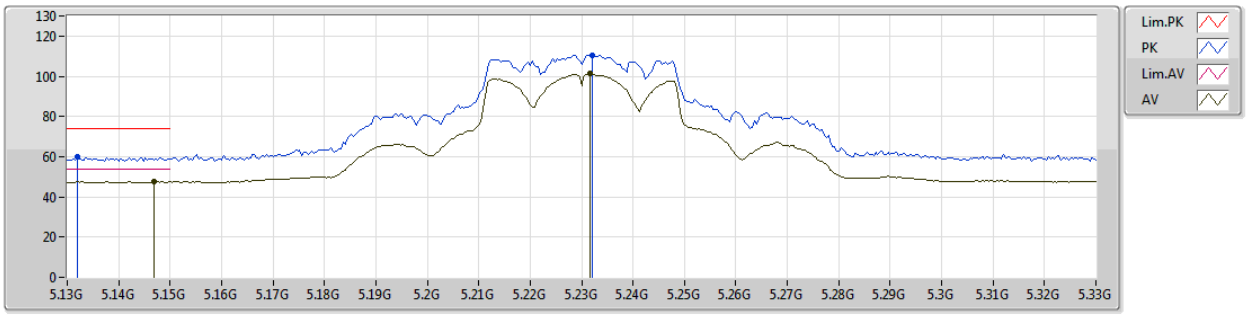
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.1324G	59.30	74.00	-14.70	7.83	3	Vertical	346	2.94	-
AV	5.1304G	47.45	54.00	-6.55	7.83	3	Vertical	346	2.94	-
PK	5.232G	110.76	Inf	-Inf	8.05	3	Vertical	346	2.94	-
AV	5.2316G	101.24	Inf	-Inf	8.05	3	Vertical	346	2.94	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

03/01/2019



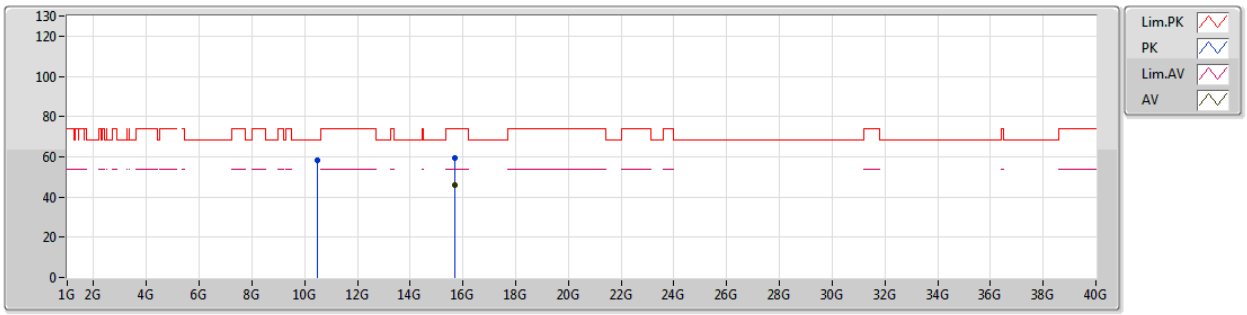
EUT Y_2TX
Setting 20
04-L-3-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.132G	59.87	74.00	-14.13	7.83	3	Horizontal	285	2.99	-
AV	5.1468G	47.51	54.00	-6.49	7.85	3	Horizontal	285	2.99	-
PK	5.232G	110.64	Inf	-Inf	8.05	3	Horizontal	285	2.99	-
AV	5.2316G	101.37	Inf	-Inf	8.05	3	Horizontal	285	2.99	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

03/01/2019



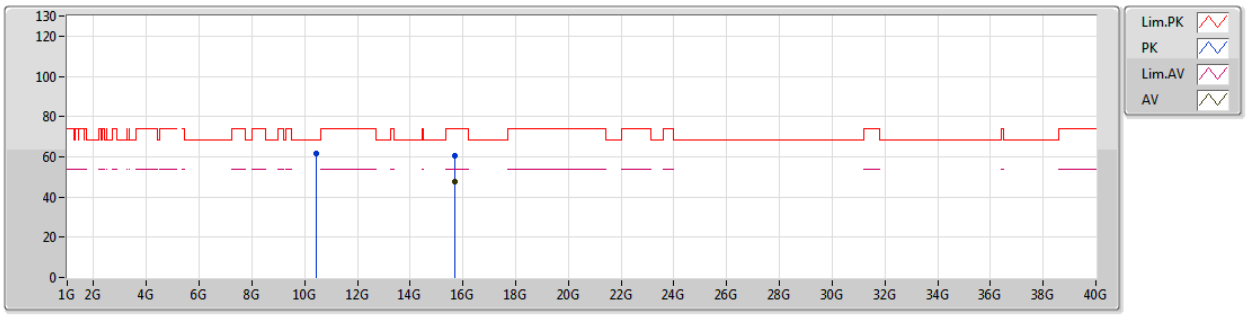
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.463G	58.49	68.20	-9.71	15.15	3	Vertical	26	2.67	-
PK	15.6885G	59.38	74.00	-14.62	15.93	3	Vertical	360	1.63	-
AV	15.6819G	46.16	54.00	-7.84	15.93	3	Vertical	360	1.63	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

03/01/2019



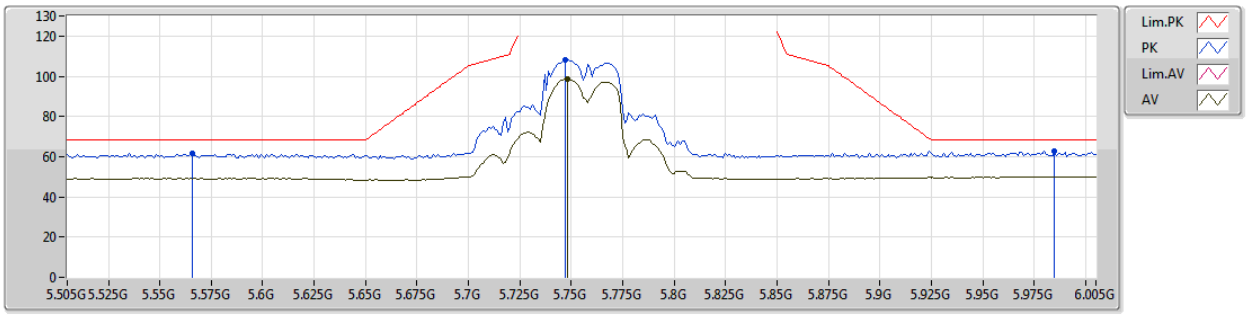
EUT Y_2TX
Setting 20
04-L-3
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	10.46055G	61.62	68.20	-6.58	15.15	3	Horizontal	51	2.27	-
PK	15.6966G	60.59	74.00	-13.41	15.92	3	Horizontal	309	1.69	-
AV	15.69635G	47.89	54.00	-6.11	15.92	3	Horizontal	309	1.69	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

03/01/2019



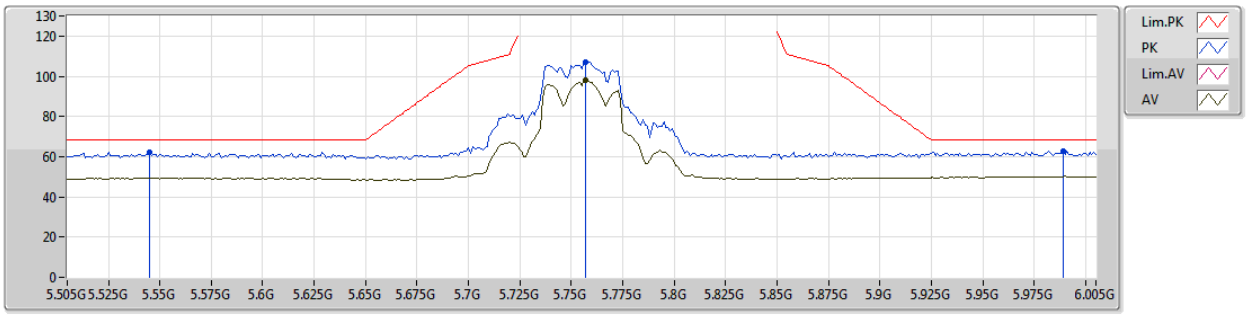
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.566G	61.91	68.20	-6.29	9.27	3	Vertical	33	1.02	-
PK	5.747G	108.00	Inf	-Inf	9.36	3	Vertical	33	1.02	-
AV	5.748G	98.52	Inf	-Inf	9.37	3	Vertical	33	1.02	-
PK	5.985G	62.56	68.20	-5.64	10.58	3	Vertical	33	1.02	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

03/01/2019



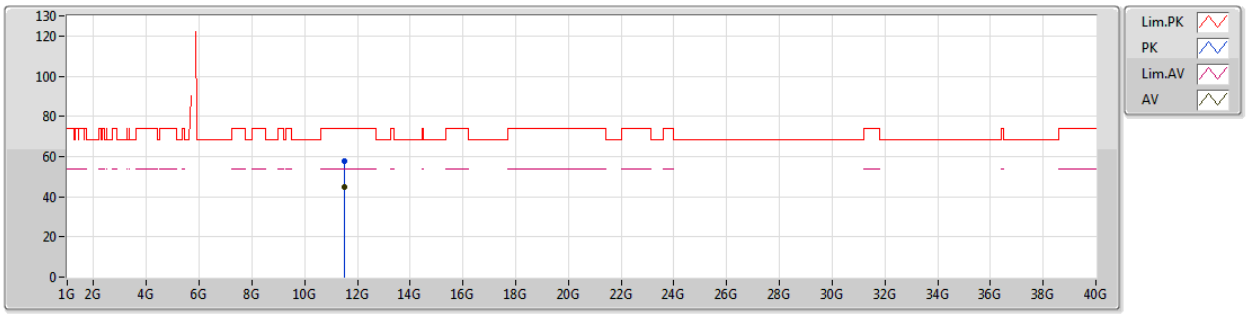
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.545G	62.16	68.20	-6.04	9.24	3	Horizontal	70	1.50	-
PK	5.757G	106.93	Inf	-Inf	9.37	3	Horizontal	70	1.50	-
AV	5.757G	97.80	Inf	-Inf	9.37	3	Horizontal	70	1.50	-
PK	5.989G	62.86	68.20	-5.34	10.60	3	Horizontal	70	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

03/01/2019



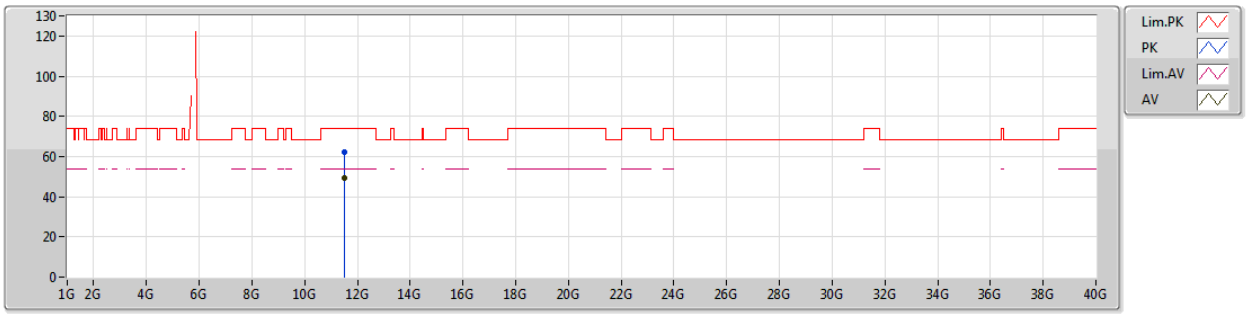
EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.50912G	57.76	74.00	-16.24	15.21	3	Vertical	21	1.50	-
AV	11.50978G	44.78	54.00	-9.22	15.21	3	Vertical	21	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

03/01/2019



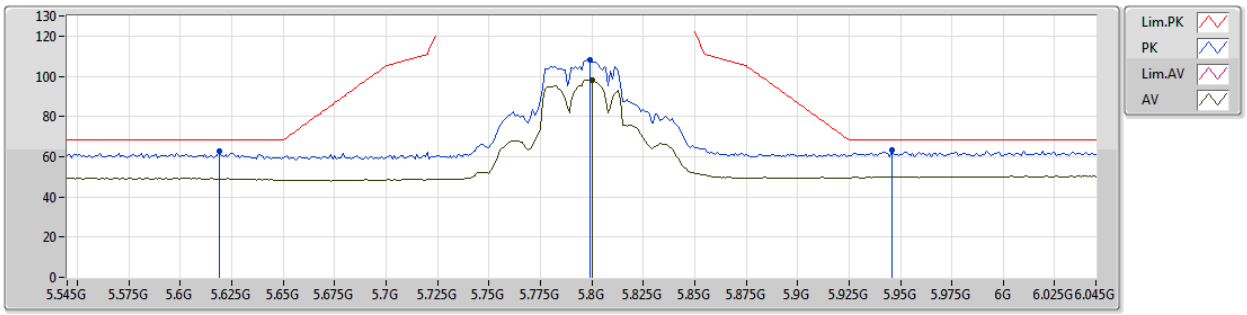
EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.51017G	62.04	74.00	-11.96	15.21	3	Horizontal	295	2.23	-
AV	11.50998G	49.05	54.00	-4.95	15.21	3	Horizontal	295	2.23	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

03/01/2019



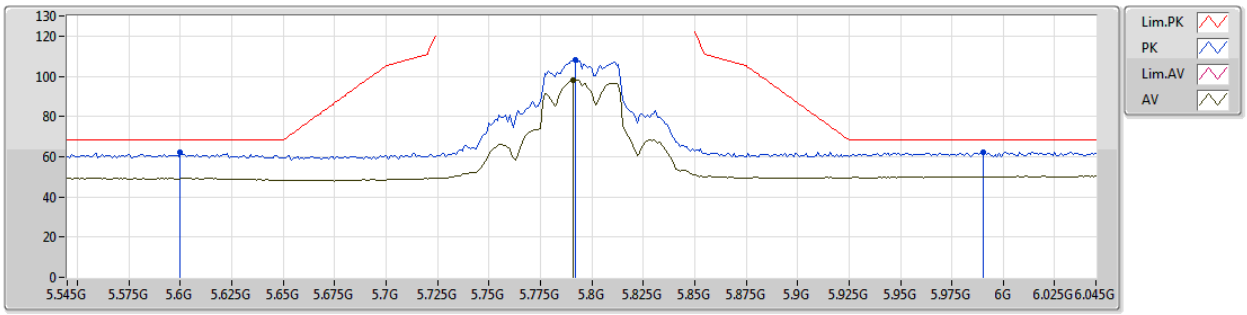
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.619G	62.49	68.20	-5.71	9.32	3	Vertical	39	2.92	-
PK	5.799G	108.08	Inf	-Inf	9.41	3	Vertical	39	2.92	-
AV	5.8G	98.10	Inf	-Inf	9.41	3	Vertical	39	2.92	-
PK	5.946G	63.16	68.20	-5.04	10.33	3	Vertical	39	2.92	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

03/01/2019



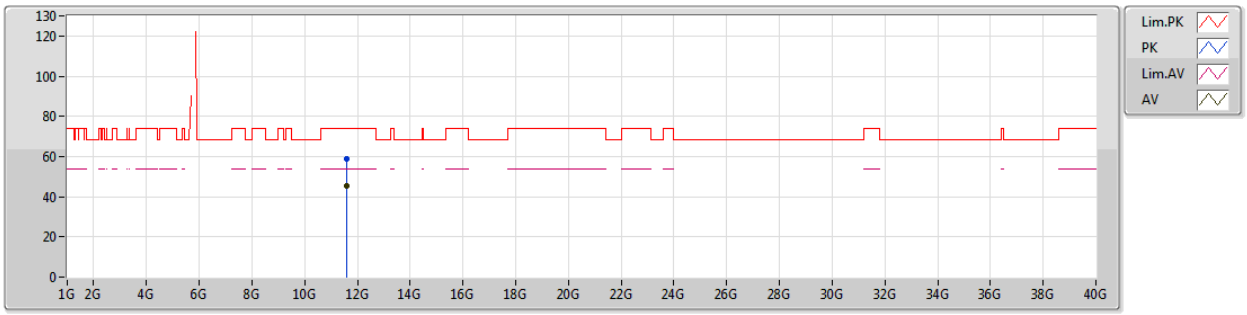
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.6G	62.00	68.20	-6.20	9.32	3	Horizontal	70	1.88	-
PK	5.792G	108.15	Inf	-Inf	9.40	3	Horizontal	70	1.88	-
AV	5.791G	98.13	Inf	-Inf	9.40	3	Horizontal	70	1.88	-
PK	5.99G	62.38	68.20	-5.82	10.61	3	Horizontal	70	1.88	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

03/01/2019



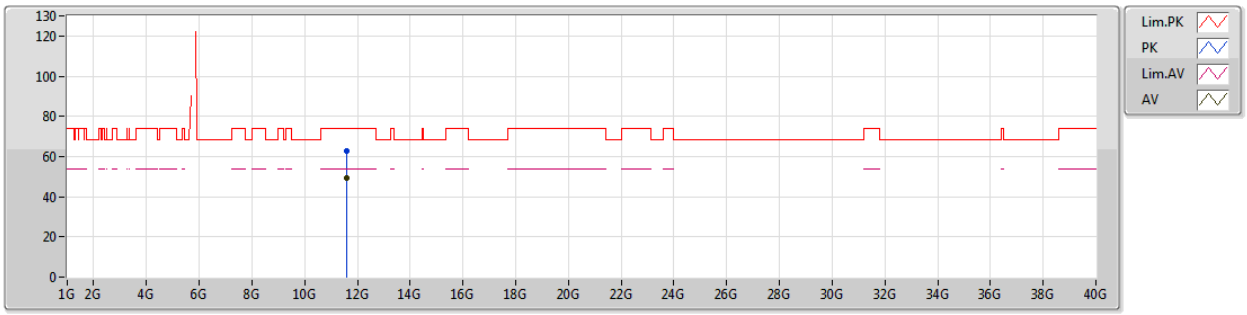
EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.58998G	58.68	74.00	-15.32	15.18	3	Vertical	14	1.50	-
AV	11.58976G	45.29	54.00	-8.71	15.18	3	Vertical	14	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

03/01/2019



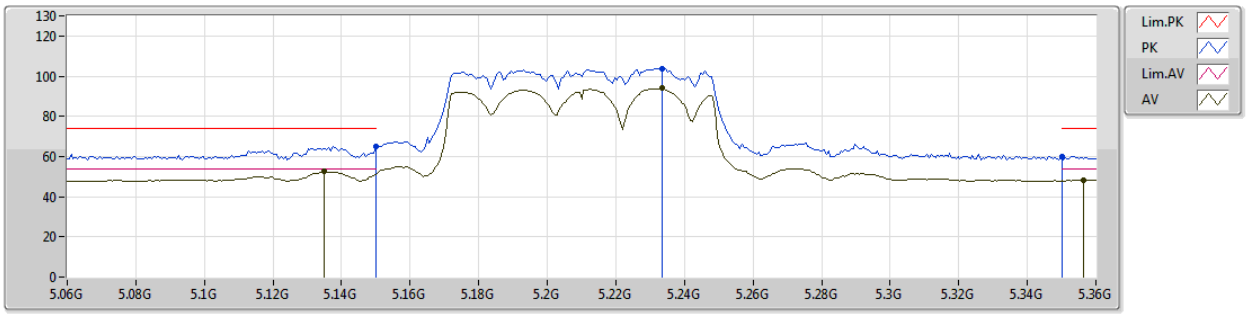
EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.58922G	62.48	74.00	-11.52	15.18	3	Horizontal	298	1.65	-
AV	11.58988G	49.47	54.00	-4.53	15.18	3	Horizontal	298	1.65	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

03/01/2019



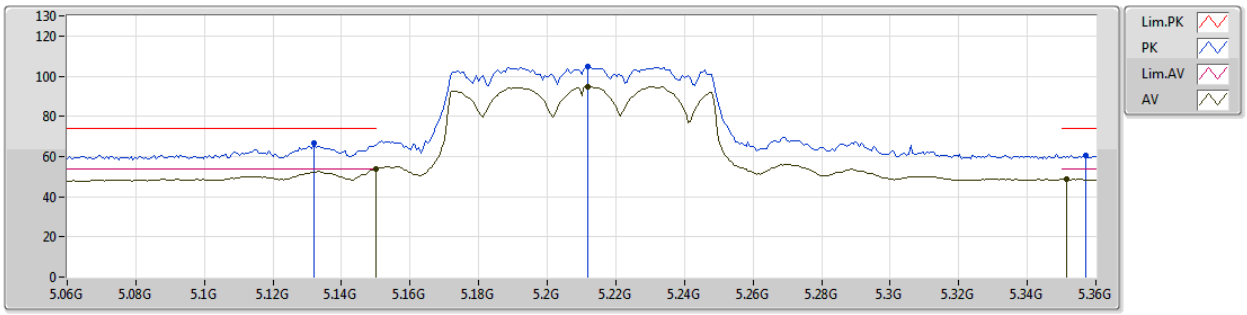
EUT Y_2TX
Setting 17
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.15G	64.99	74.00	-9.01	7.85	3	Vertical	345	2.95	-
AV	5.135G	52.54	54.00	-1.46	7.84	3	Vertical	345	2.95	-
PK	5.2334G	103.79	Inf	-Inf	8.07	3	Vertical	345	2.95	-
AV	5.2334G	94.06	Inf	-Inf	8.07	3	Vertical	345	2.95	-
PK	5.35G	60.03	74.00	-13.97	8.56	3	Vertical	345	2.95	-
AV	5.3564G	48.39	54.00	-5.61	8.59	3	Vertical	345	2.95	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

03/01/2019



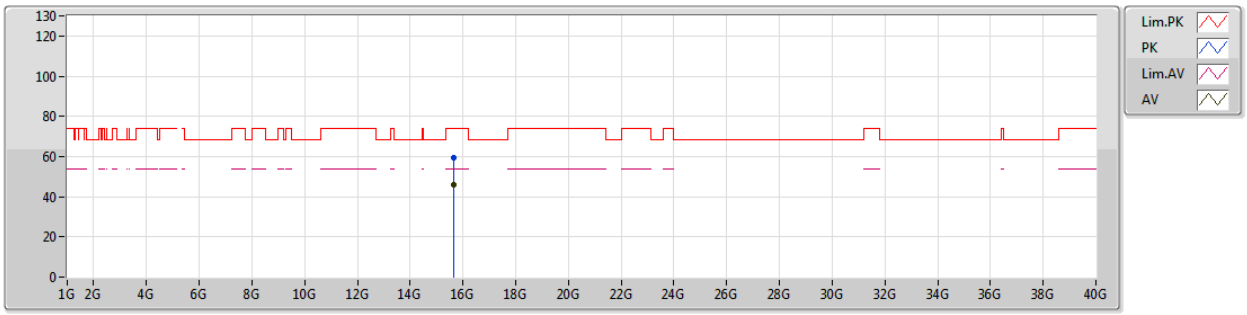
EUT Y_2TX
Setting 17
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.132G	66.44	74.00	-7.56	7.83	3	Horizontal	286	2.87	-
AV	5.15G	53.78	54.00	-0.22	7.85	3	Horizontal	286	2.87	-
PK	5.2118G	104.67	Inf	-Inf	7.97	3	Horizontal	286	2.87	-
AV	5.2118G	94.86	Inf	-Inf	7.97	3	Horizontal	286	2.87	-
PK	5.357G	60.68	74.00	-13.32	8.59	3	Horizontal	286	2.87	-
AV	5.3516G	48.65	54.00	-5.35	8.56	3	Horizontal	286	2.87	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

03/01/2019



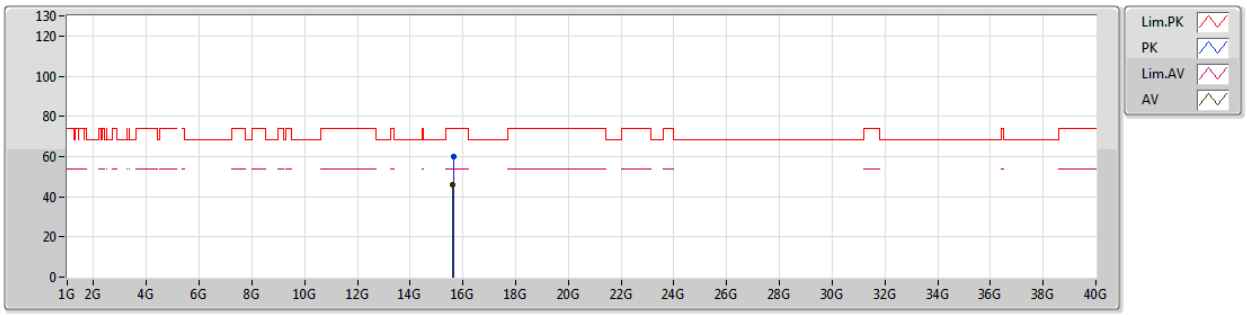
EUT Y_2TX
Setting 17
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	15.63106G	59.46	74.00	-14.54	15.97	3	Vertical	221	1.96	-
AV	15.63196G	46.11	54.00	-7.89	15.96	3	Vertical	221	1.96	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

03/01/2019



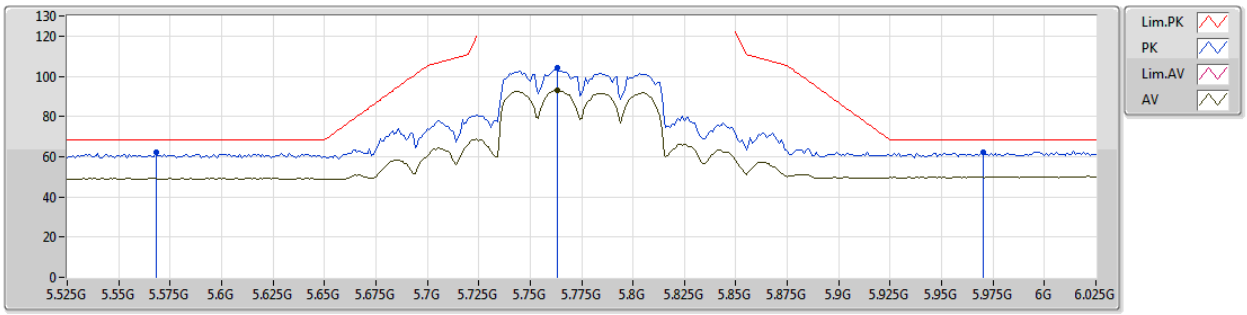
EUT Y_2TX
Setting 17
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	15.63222G	59.70	74.00	-14.30	15.96	3	Horizontal	89	2.59	-
AV	15.62989G	46.13	54.00	-7.87	15.97	3	Horizontal	89	2.59	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

03/01/2019



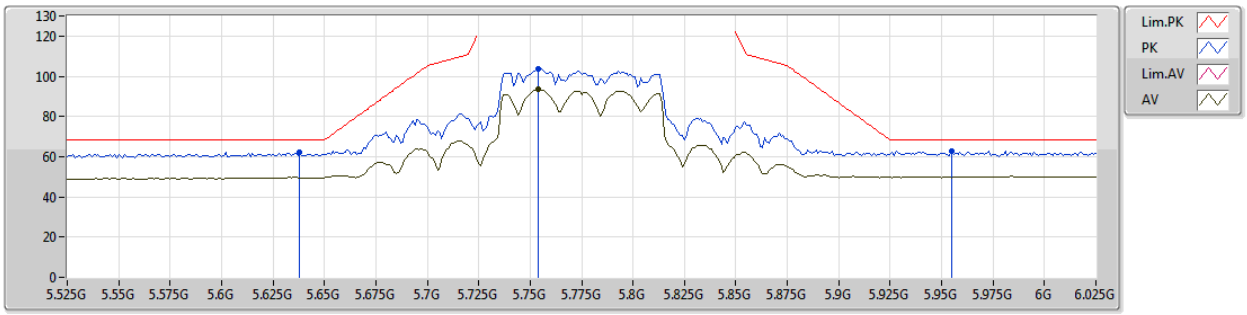
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.568G	61.95	68.20	-6.25	9.28	3	Vertical	38	1.05	-
PK	5.763G	104.02	Inf	-Inf	9.38	3	Vertical	38	1.05	-
AV	5.763G	93.18	Inf	-Inf	9.38	3	Vertical	38	1.05	-
PK	5.97G	61.96	68.20	-6.24	10.48	3	Vertical	38	1.05	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

03/01/2019



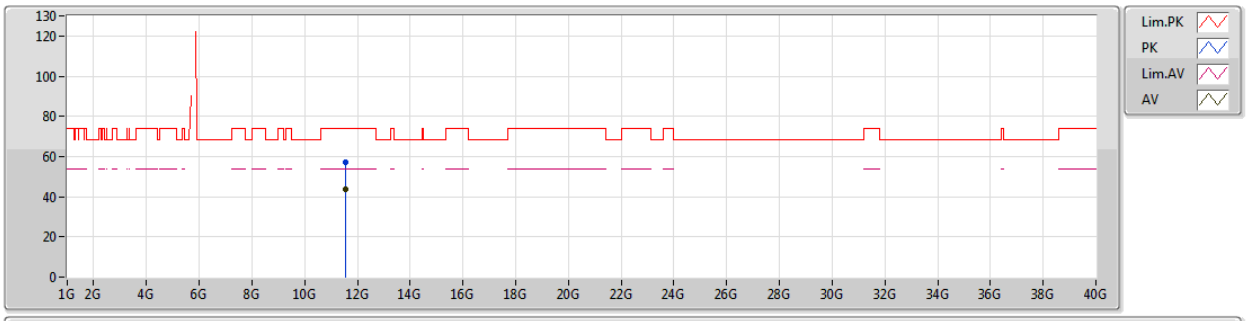
EUT Y_2TX
Setting 20
04-B-1-10
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	5.638G	62.32	68.20	-5.88	9.32	3	Horizontal	67	1.50	-
PK	5.754G	103.66	Inf	-Inf	9.37	3	Horizontal	67	1.50	-
AV	5.754G	93.67	Inf	-Inf	9.37	3	Horizontal	67	1.50	-
PK	5.955G	63.03	68.20	-5.17	10.38	3	Horizontal	67	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

03/01/2019



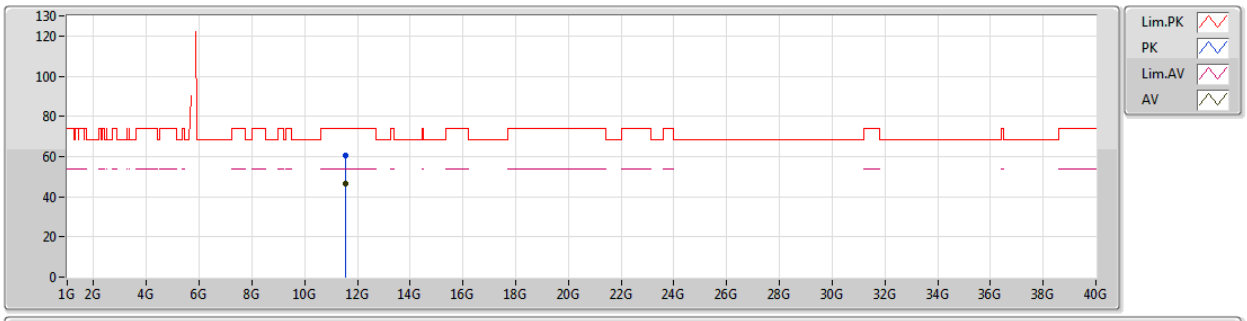
EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.54983G	57.02	74.00	-16.98	15.19	3	Vertical	27	1.45	-
AV	11.55036G	43.48	54.00	-10.52	15.19	3	Vertical	27	1.45	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

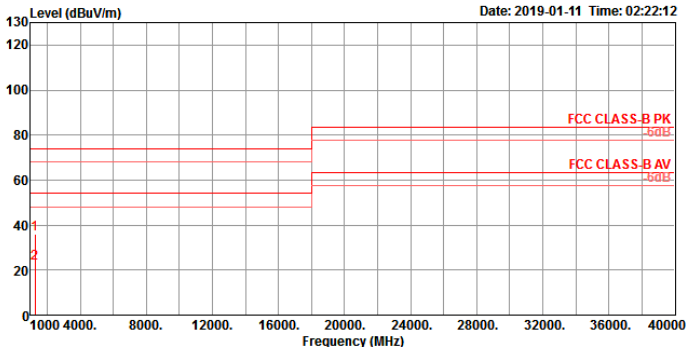
03/01/2019



EUT Y_2TX
Setting 20
04-B-1
FSP(100304)

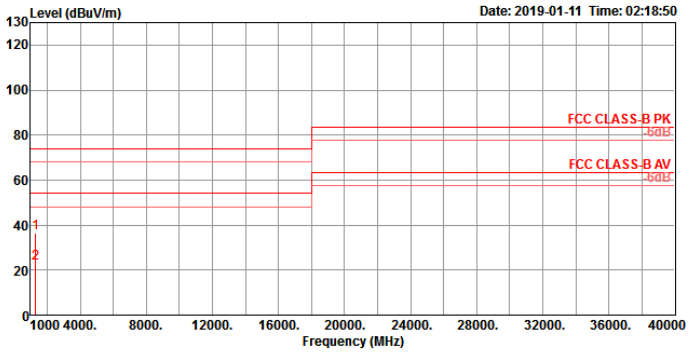
Type	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
PK	11.54873G	60.67	74.00	-13.33	15.19	3	Horizontal	295	1.61	-
AV	11.5495G	46.71	54.00	-7.29	15.19	3	Horizontal	295	1.61	-

RSE Co-location Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1287.12	36.21	74.00	-37.79	43.79	3.47	24.91	35.96	100	96	Peak	HORIZONTAL
2	1287.61	22.99	54.00	-31.01	30.57	3.47	24.91	35.96	100	96	Average	HORIZONTAL

RSE Co-location Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1288.12	36.43	74.00	-37.57	43.95	3.48	24.94	35.94	100	122	Peak	VERTICAL
2	1288.32	23.12	54.00	-30.88	30.64	3.48	24.94	35.94	100	122	Average	VERTICAL