FCC RADIO TEST REPORT

FCC ID	:	2AXJ4P9V2
Equipment	:	AC1200+AV1000 Whole Home Powerline Mesh Wi-Fi System
Brand Name	:	tp-link
Model Name	:	Deco P9
Applicant	:	TP-Link Corporation Limited Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer	:	TP-Link Corporation Limited Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Standard	:	47 CFR FCC Part 15.407

The product was received on Sep. 08, 2020, and testing was started from Sep. 18, 2020 and completed on Dec. 10, 2020. 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 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
FR961308-02AB	01	Initial issue of report	Jan. 04, 2021

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: Viola Huang

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	2
5.15-5.25GHz	802.11n HT20	20	2
5.15-5.25GHz	802.11n HT20-BF	20	2
5.15-5.25GHz	802.11ac VHT20	20	2
5.15-5.25GHz	802.11ac VHT20-BF	20	2
5.15-5.25GHz	802.11n HT40	40	2
5.15-5.25GHz	802.11n HT40-BF	40	2
5.15-5.25GHz	802.11ac VHT40	40	2
5.15-5.25GHz	802.11ac VHT40-BF	40	2
5.15-5.25GHz	802.11ac VHT80	80	2
5.15-5.25GHz	802.11ac VHT80-BF	80	2
5.725-5.85GHz	802.11a	20	2
5.725-5.85GHz	802.11n HT20	20	2
5.725-5.85GHz	802.11n HT20-BF	20	2
5.725-5.85GHz	802.11ac VHT20	20	2
5.725-5.85GHz	802.11ac VHT20-BF	20	2
5.725-5.85GHz	802.11n HT40	40	2
5.725-5.85GHz	802.11n HT40-BF	40	2
5.725-5.85GHz	802.11ac VHT40	40	2
5.725-5.85GHz	802.11ac VHT40-BF	40	2
5.725-5.85GHz	802.11ac VHT80	80	2
5.725-5.85GHz	802.11ac VHT80-BF	80	2

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	2.4GHz Port	5GHz Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
							2.4GHz	5GHz
1	1	2	TP-LINK	N/A	Monopole Antenna	N/A	1.5	0.94
2	2	1	TP-LINK	N/A	Monopole Antenna	N/A	1.5	0.98

Note: The above information was declared by manufacturer.

<For 2.4GHz Band>

For IEEE 802.11b/g/n mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz Band>

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

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	0.971	0.13	2.065m	1k
802.11ac VHT20	0.987	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.974	0.11	2.437m	1k
802.11ac VHT80	0.948	0.23	1.149m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/11ac in 5GHz.			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	QPCT_V3.0.187.0			

Note: The above information was declared by manufacturer.

1.1.5 EUT Support Function

The EUT supports AP, Router, Mesh Function. After evaluation, only Router mode has been tested and recorded in the test report.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v02r01

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 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, Ln. 724, Bo'ai St., Zhubei 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	TH03-CB	Jeff Wu	20.4~22°C / 28~29%	Dec. 08, 2020
Radiated (For Below 1GHz)	03CH03-CB	KJ Chang	23.5~24.1°C / 56~58%	Sep. 24, 2020~Dec. 10, 2020
Radiated (For Above 1GHz)	03CH03-CB	KJ Chang	24.3~26.2°C / 54~58%	Sep. 24, 2020~Dec. 10, 2020
Radiated (For co-location)	03CH03-CB	KJ Chang	23.5~24.1°C / 56~58%	Sep. 24, 2020~Dec. 10, 2020
AC Conduction	CO02-CB	GN Hou	22~23°C / 58~60%	Sep. 18, 2020

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 (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	22.5
5200MHz	24
5240MHz	24
5745MHz	24
5785MHz	24
5825MHz	23.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	23
5200MHz	24.5
5240MHz	24.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	23
5755MHz	23.5
5795MHz	25
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	17
5775MHz	21

Mode	Power Setting
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	23
5200MHz	24.5
5240MHz	24.5
5745MHz	24
5785MHz	24
5825MHz	24
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	19
5230MHz	23
5755MHz	23.5
5795MHz	25
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	17
5775MHz	21

Note:
- The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

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 PLC is Idle mode (without data transmit)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	EUT_2.4GHz
2	EUT_5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT_5GHz

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA961308-02 for Co-location RF Exposure Evaluation.	

Note: The EUT can only use Y axis position.

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
Power cable, non-shielded, 1.5m

2.5 Support Equipment

For AC Conduction:

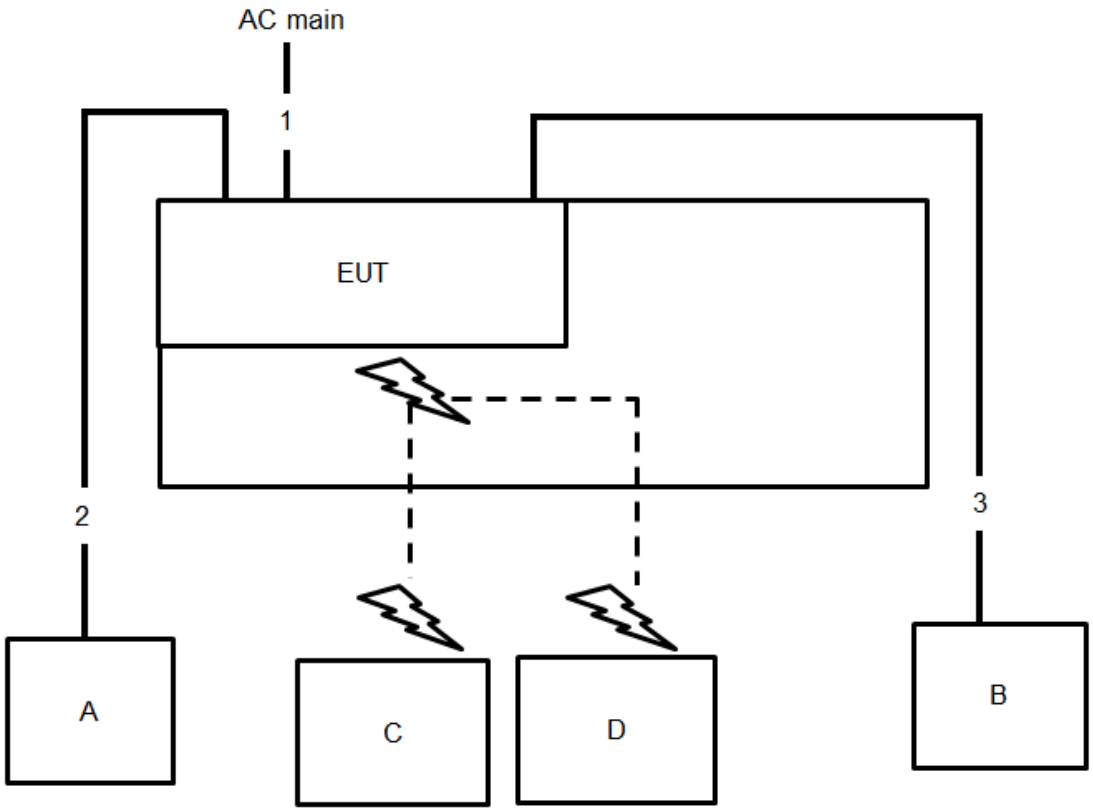
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	AP Router	ASUS	RP-N53	MSQ-RPN53
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A

For Radiated and RF Conducted:

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

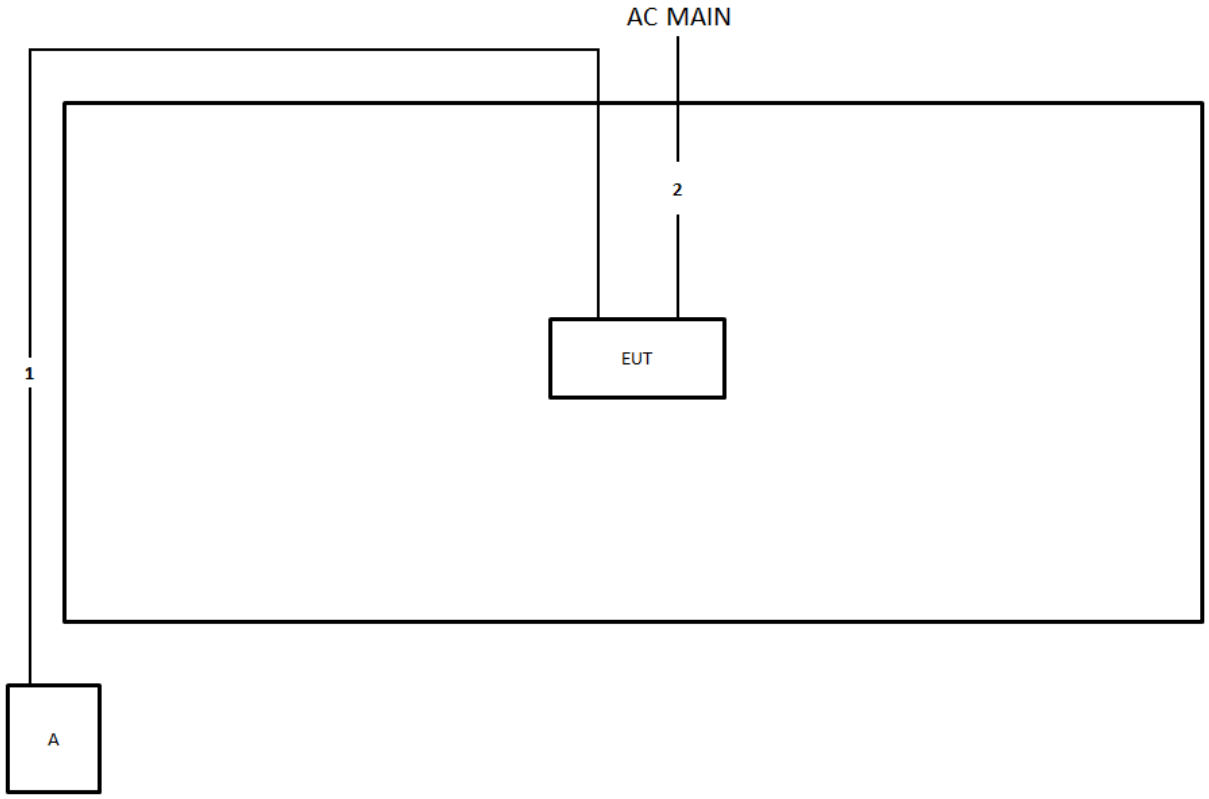
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



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

Test Setup Diagram - Radiated Test



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

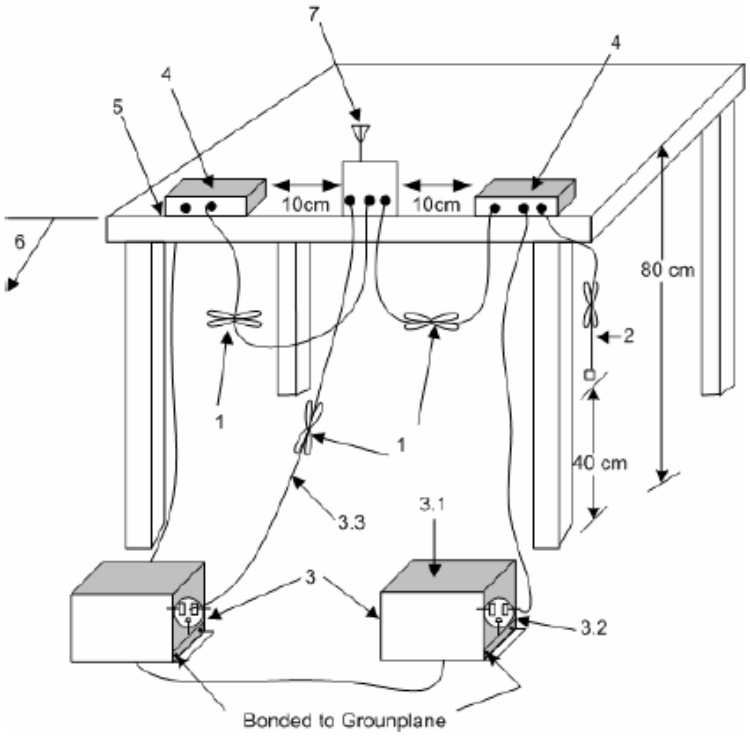
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

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 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level

b. Margin = -Limit + Level

3.1.6 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

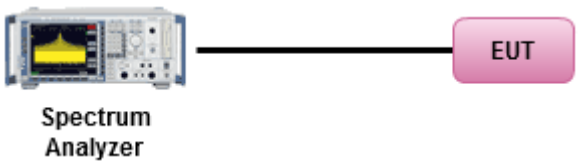
Refer a test equipment and calibration data table in this test report.

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.	

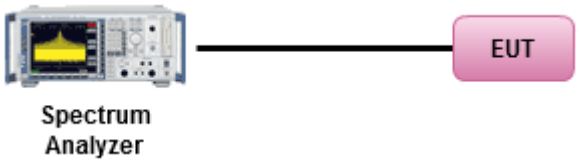
3.4.2 Measuring Instruments

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.

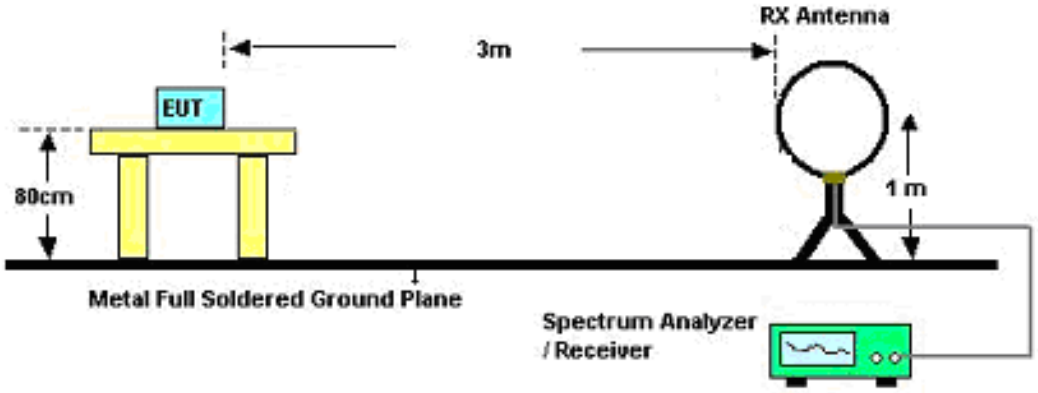
3.5.3 Test Procedures

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.			

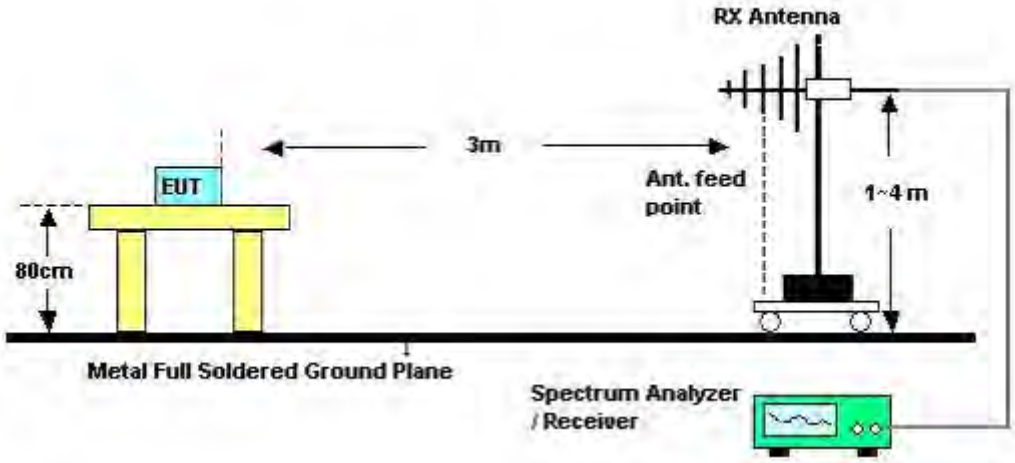
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

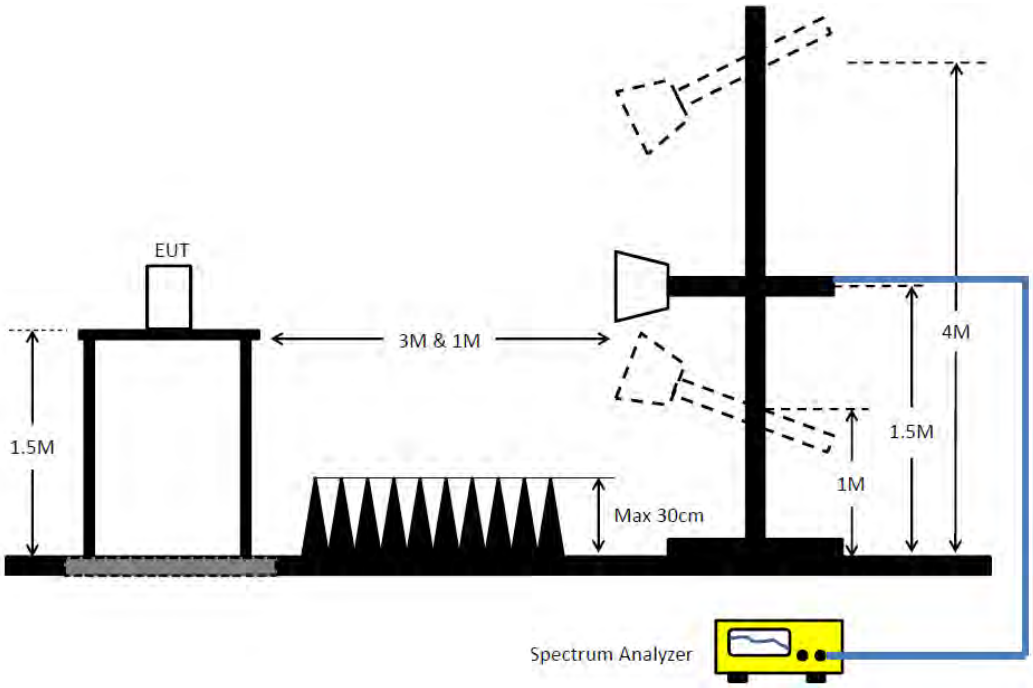
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
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 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2019	Nov. 20, 2020	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Mar. 10, 2020	Mar. 09, 2021	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 21, 2019	Oct. 20, 2020	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 19, 2020	Mar. 18, 2021	Conduction (CO02-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 29, 2020	Jan. 28, 2021	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 28, 2020	May 27, 2021	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner	CBL6112B & N-6-06	2928 & AT-N0607	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 20, 2020	Jan. 19, 2021	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 15, 2020	Jan. 14, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	25MHz ~ 1GHz	Jul. 28, 2020	Jul. 27, 2021	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Jul. 28, 2020	Jul. 27, 2021	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Jul. 28, 2020	Jul. 27, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 14, 2020	May 13, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

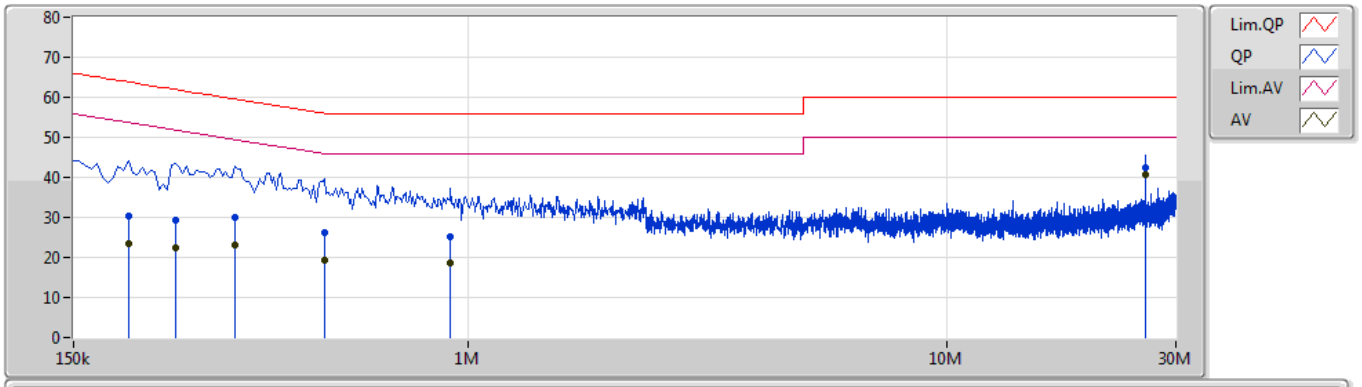
N.C.R. means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	25.872M	40.56	50.00	-9.44	Line

Mode 1

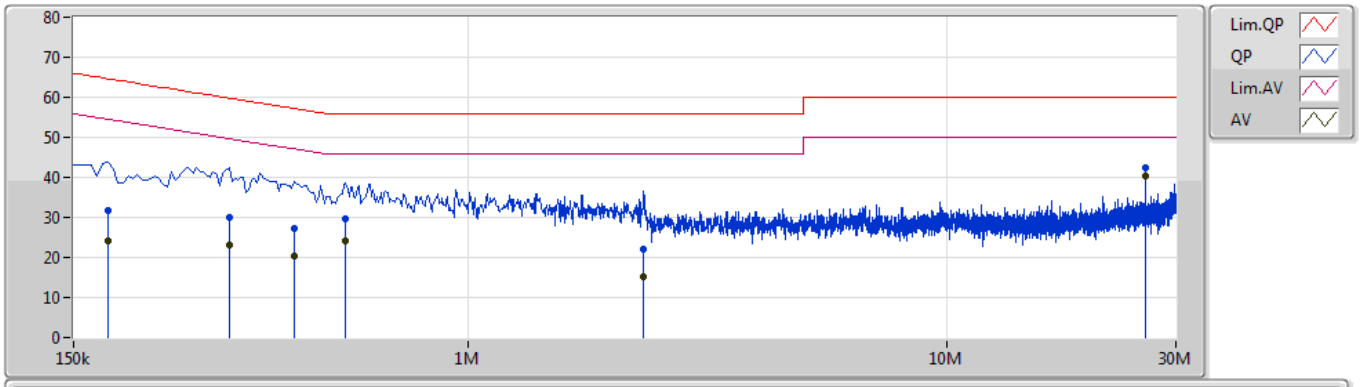
18/09/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	195k	30.44	63.82	-33.38	10.29	Line	-	20.15	0.05	0.07	10.17
AV	195k	23.42	53.82	-30.40	10.29	Line	-	13.13	0.05	0.07	10.17
QP	244.5k	29.21	61.95	-32.74	10.27	Line	-	18.94	0.05	0.07	10.15
AV	244.5k	22.36	51.95	-29.59	10.27	Line	-	12.09	0.05	0.07	10.15
QP	325.5k	29.99	59.56	-29.57	10.25	Line	-	19.74	0.05	0.08	10.12
AV	325.5k	23.17	49.56	-26.39	10.25	Line	-	12.92	0.05	0.08	10.12
QP	500k	26.07	56.00	-29.93	10.24	Line	-	15.83	0.05	0.09	10.10
AV	500k	19.37	46.00	-26.63	10.24	Line	-	9.13	0.05	0.09	10.10
QP	919.5k	25.28	56.00	-30.72	10.29	Line	-	14.99	0.06	0.12	10.11
AV	919.5k	18.61	46.00	-27.39	10.29	Line	-	8.32	0.06	0.12	10.11
QP	25.872M	42.57	60.00	-17.43	10.97	Line	-	31.60	0.55	0.23	10.19
AV	25.872M	40.56	50.00	-9.44	10.97	Line	"Worst"	29.59	0.55	0.23	10.19

Mode 1

18/09/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	177k	31.56	64.62	-33.06	10.27	Neutral	-	21.29	0.05	0.06	10.16
AV	177k	24.23	54.62	-30.39	10.27	Neutral	-	13.96	0.05	0.06	10.16
QP	316.5k	30.01	59.80	-29.79	10.25	Neutral	-	19.76	0.05	0.08	10.12
AV	316.5k	23.17	49.80	-26.63	10.25	Neutral	-	12.92	0.05	0.08	10.12
QP	433.5k	27.27	57.19	-29.92	10.23	Neutral	-	17.04	0.05	0.08	10.10
AV	433.5k	20.36	47.19	-26.83	10.23	Neutral	-	10.13	0.05	0.08	10.10
QP	555k	29.64	56.00	-26.36	10.24	Neutral	-	19.40	0.05	0.09	10.10
AV	555k	24.22	46.00	-21.78	10.24	Neutral	-	13.98	0.05	0.09	10.10
QP	2.324M	22.15	56.00	-33.85	10.38	Neutral	-	11.77	0.09	0.16	10.13
AV	2.324M	15.22	46.00	-30.78	10.38	Neutral	-	4.84	0.09	0.16	10.13
QP	25.872M	42.38	60.00	-17.62	10.75	Neutral	-	31.63	0.33	0.23	10.19
AV	25.872M	40.25	50.00	-9.75	10.75	Neutral	"Worst"	29.50	0.33	0.23	10.19

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	22.29M	16.582M	16M6D7W	19.8M	16.432M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.38M	17.751M	17M8D7W	20.37M	17.661M
802.11ac VHT40_Nss1,(MCS0)_2TX	46.86M	36.102M	36M1D7W	39.96M	35.862M
802.11ac VHT80_Nss1,(MCS0)_2TX	84.12M	75.802M	75M8D7W	83.64M	75.682M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.05M	16.672M	16M7D7W	15.6M	16.552M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.55M	17.811M	17M8D7W	16.5M	17.631M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.64M	51.874M	51M9D7W	32.52M	36.042M
802.11ac VHT80_Nss1,(MCS0)_2TX	75.72M	75.922M	75M9D7W	74.4M	75.922M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum99% 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	19.8M	16.432M	20.01M	16.432M
5200MHz	Pass	Inf	22.29M	16.582M	22.11M	16.552M
5240MHz	Pass	Inf	20.91M	16.462M	21.36M	16.522M
5745MHz	Pass	500k	15.69M	16.552M	16.05M	16.582M
5785MHz	Pass	500k	16.05M	16.672M	15.69M	16.582M
5825MHz	Pass	500k	16.02M	16.612M	15.6M	16.582M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.37M	17.661M	21.03M	17.661M
5200MHz	Pass	Inf	21.81M	17.721M	22.38M	17.751M
5240MHz	Pass	Inf	21.54M	17.661M	21.78M	17.691M
5745MHz	Pass	500k	16.92M	17.751M	16.5M	17.661M
5785MHz	Pass	500k	17.55M	17.811M	16.53M	17.661M
5825MHz	Pass	500k	16.92M	17.631M	17.22M	17.691M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.96M	35.862M	40.14M	35.982M
5230MHz	Pass	Inf	44.22M	35.982M	46.86M	36.102M
5755MHz	Pass	500k	34.98M	36.042M	32.52M	36.042M
5795MHz	Pass	500k	35.64M	51.874M	33.96M	36.282M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	84.12M	75.682M	83.64M	75.802M
5775MHz	Pass	500k	74.4M	75.922M	75.72M	75.922M

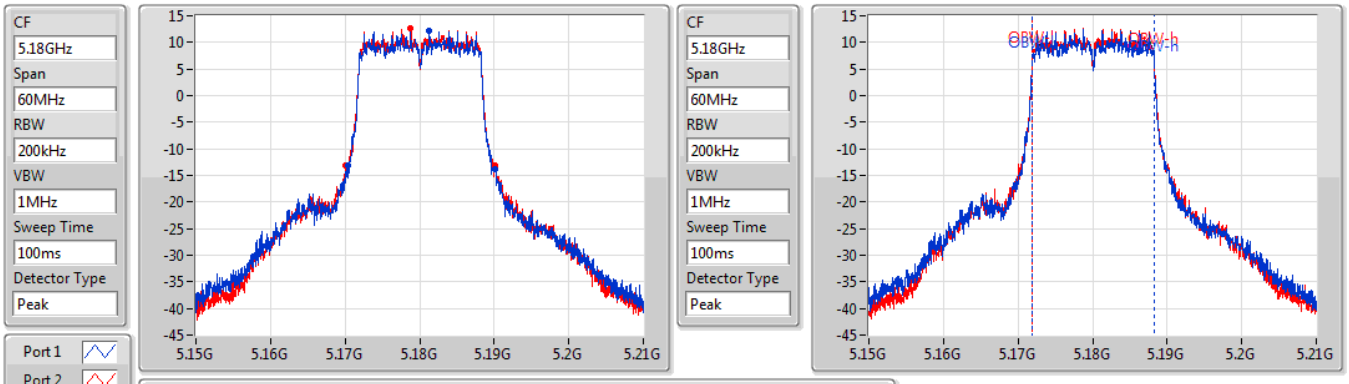
Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

08/12/2020



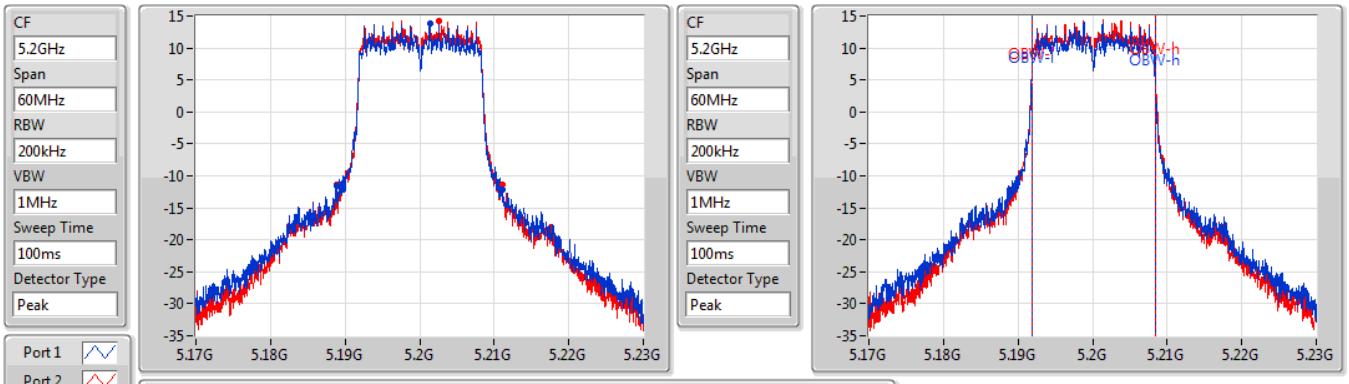
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.8M	5.17037G	5.19017G	16.432M	5.171874G	5.188306G	Inf	1
20.01M	5.17007G	5.19008G	16.432M	5.171874G	5.188306G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

08/12/2020



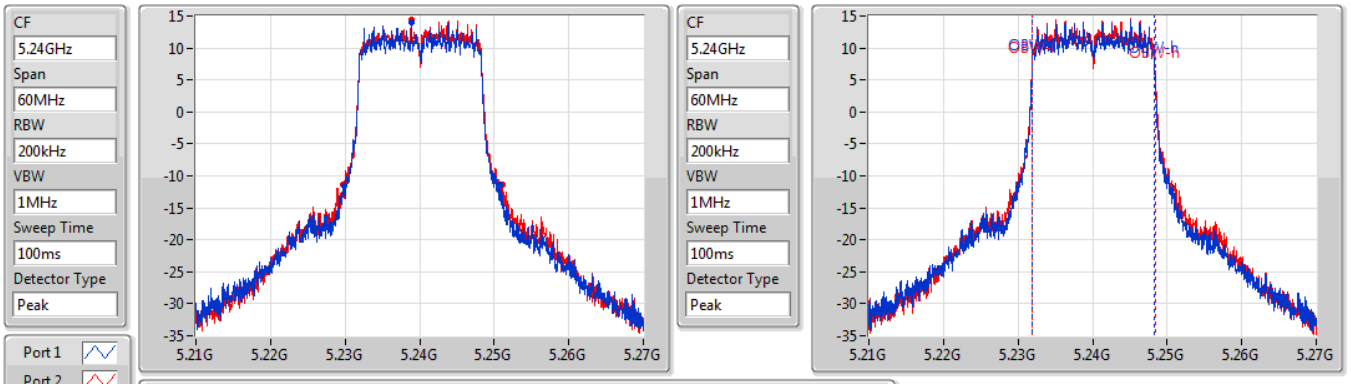
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.29M	5.18881G	5.2111G	16.582M	5.191814G	5.208396G	Inf	1
22.11M	5.18893G	5.21104G	16.552M	5.191844G	5.208396G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

08/12/2020



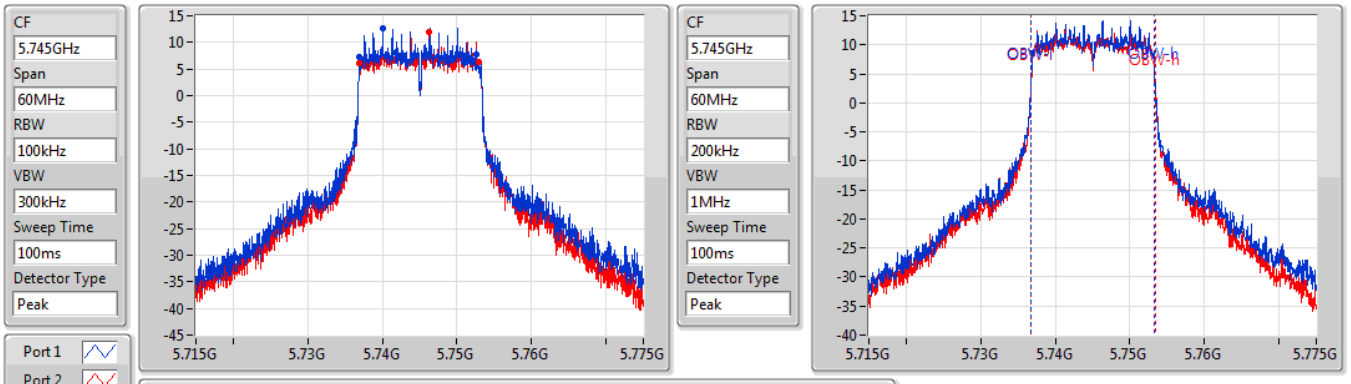
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.91M	5.22983G	5.25074G	16.462M	5.231874G	5.248336G	Inf	1
21.36M	5.22968G	5.25104G	16.522M	5.231874G	5.248396G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

08/12/2020



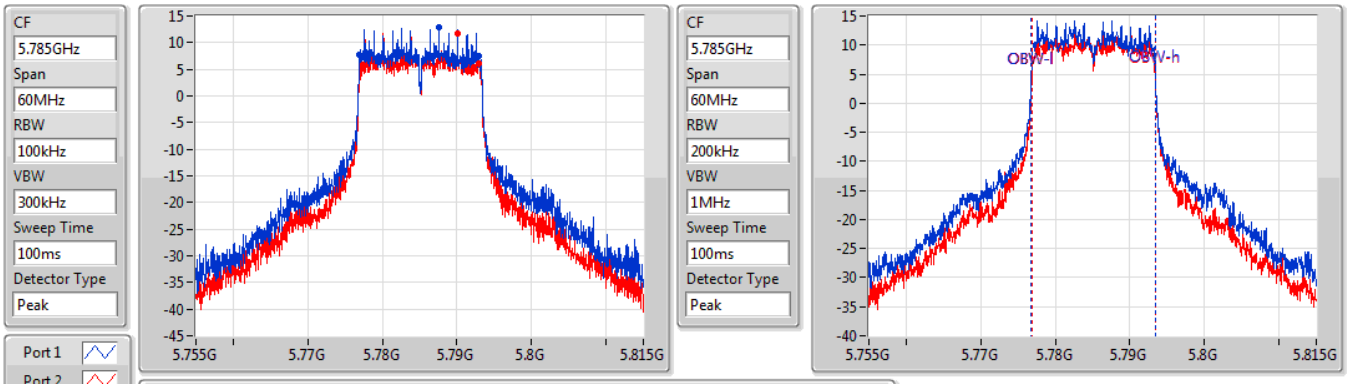
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.69M	5.73693G	5.75262G	16.552M	5.736784G	5.753336G	500k	1
16.05M	5.73693G	5.75298G	16.582M	5.736784G	5.753366G	500k	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

08/12/2020



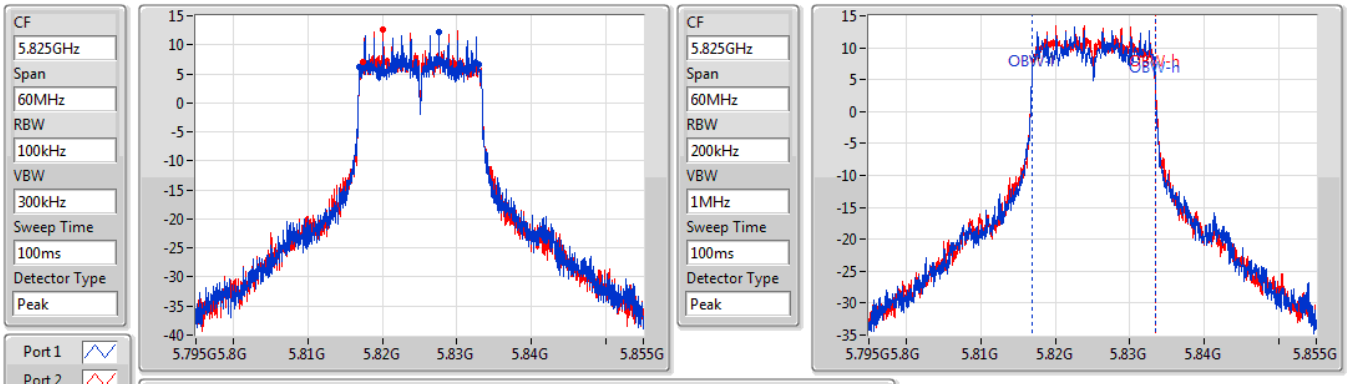
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.05M	5.77696G	5.79301G	16.672M	5.776754G	5.793426G	500k	1
15.69M	5.77732G	5.79301G	16.582M	5.776844G	5.793426G	500k	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

08/12/2020



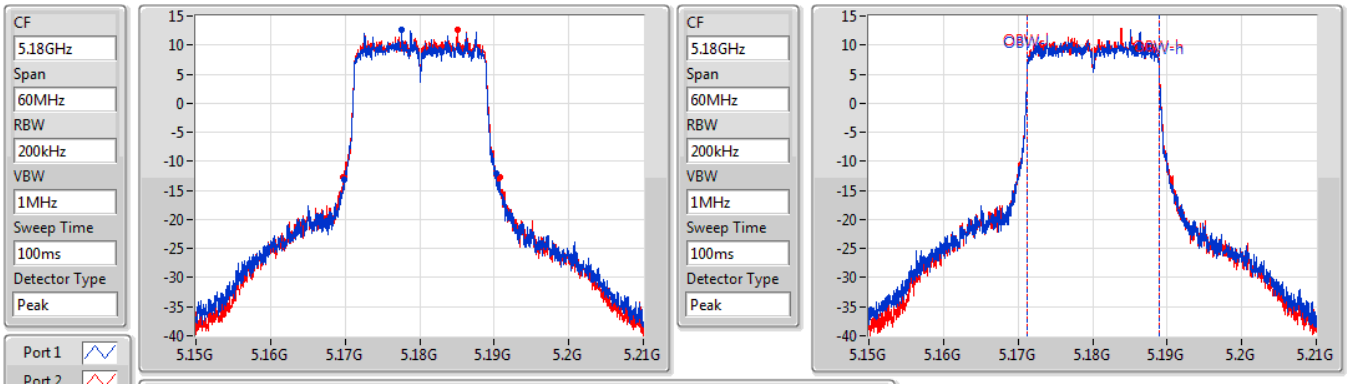
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.02M	5.81696G	5.83298G	16.612M	5.816814G	5.833426G	500k	1
15.6M	5.81738G	5.83298G	16.582M	5.816844G	5.833426G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

08/12/2020



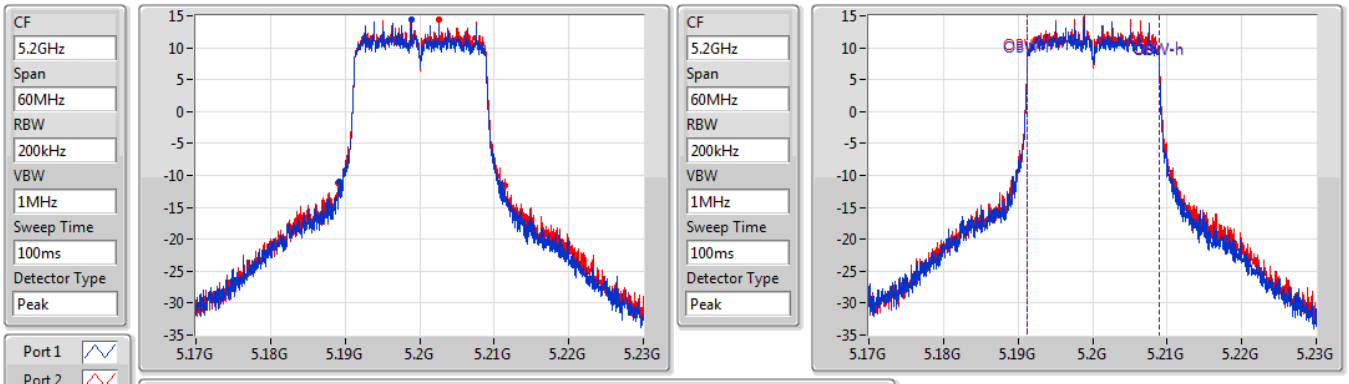
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.37M	5.16995G	5.19032G	17.661M	5.171274G	5.188936G	Inf	1
21.03M	5.16977G	5.1908G	17.661M	5.171274G	5.188936G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

08/12/2020



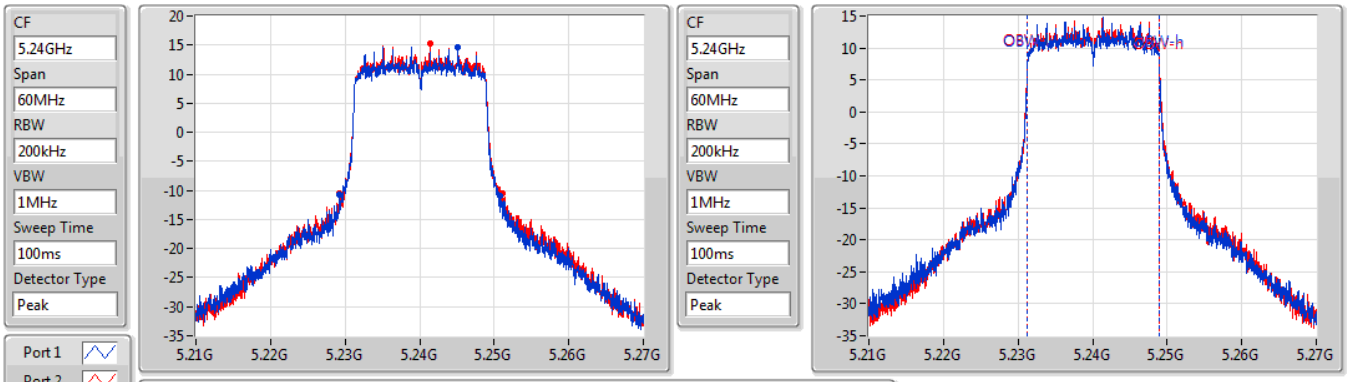
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.81M	5.18914G	5.21095G	17.721M	5.191244G	5.208966G	Inf	1
22.38M	5.18908G	5.21146G	17.751M	5.191244G	5.208996G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

08/12/2020



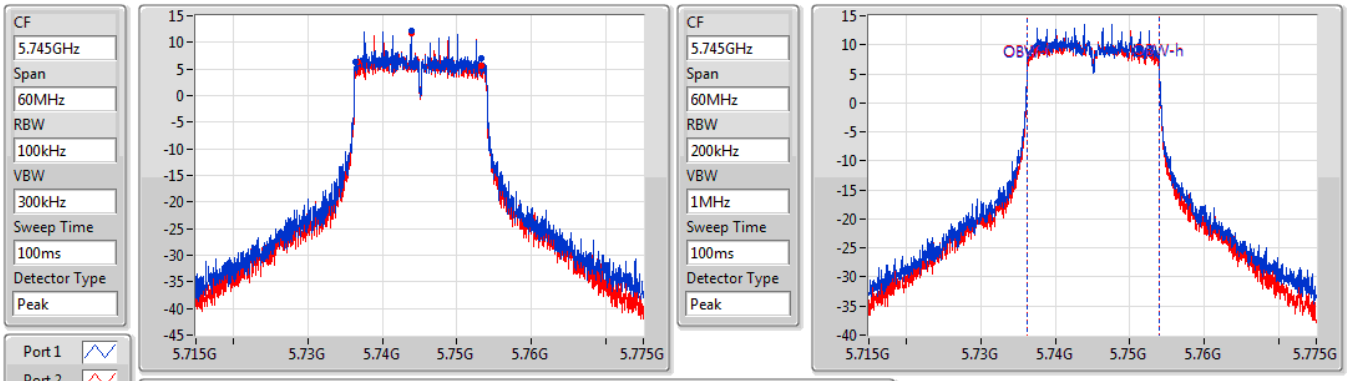
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.54M	5.22926G	5.2508G	17.661M	5.231274G	5.248936G	Inf	1
21.78M	5.22926G	5.25104G	17.691M	5.231274G	5.248966G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

08/12/2020



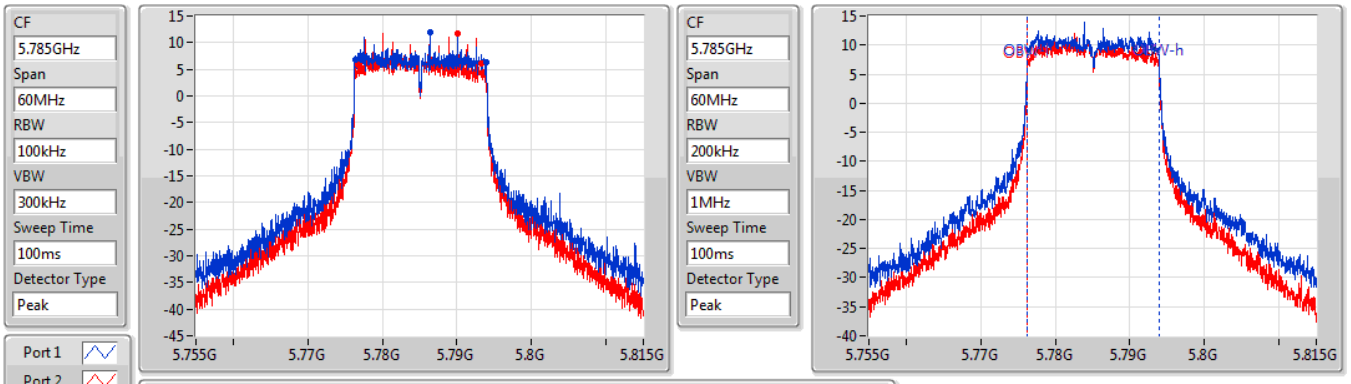
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.92M	5.73633G	5.75325G	17.751M	5.736214G	5.753966G	500k	1
16.5M	5.73672G	5.75322G	17.661M	5.736274G	5.753936G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

08/12/2020



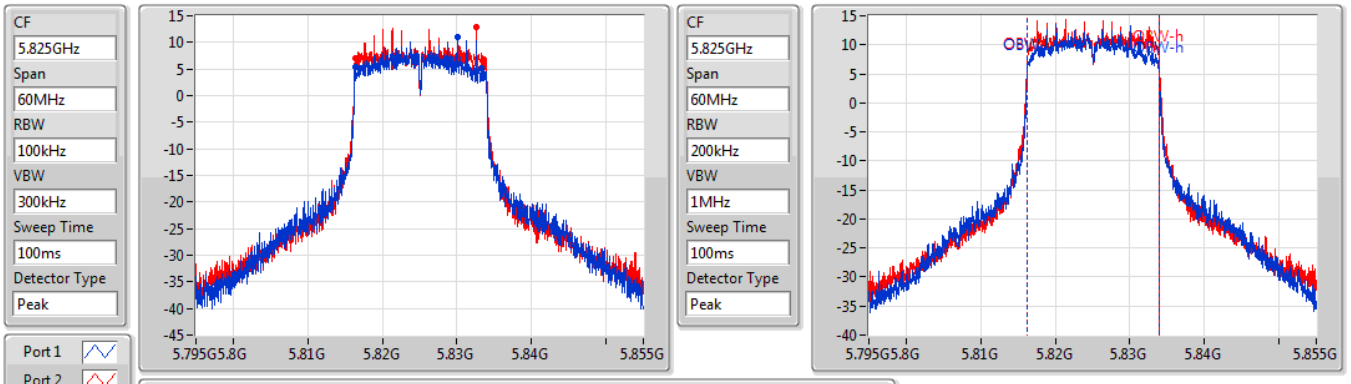
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.77633G	5.79388G	17.811M	5.776184G	5.793996G	500k	1
16.53M	5.77672G	5.79325G	17.661M	5.776274G	5.793936G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

08/12/2020



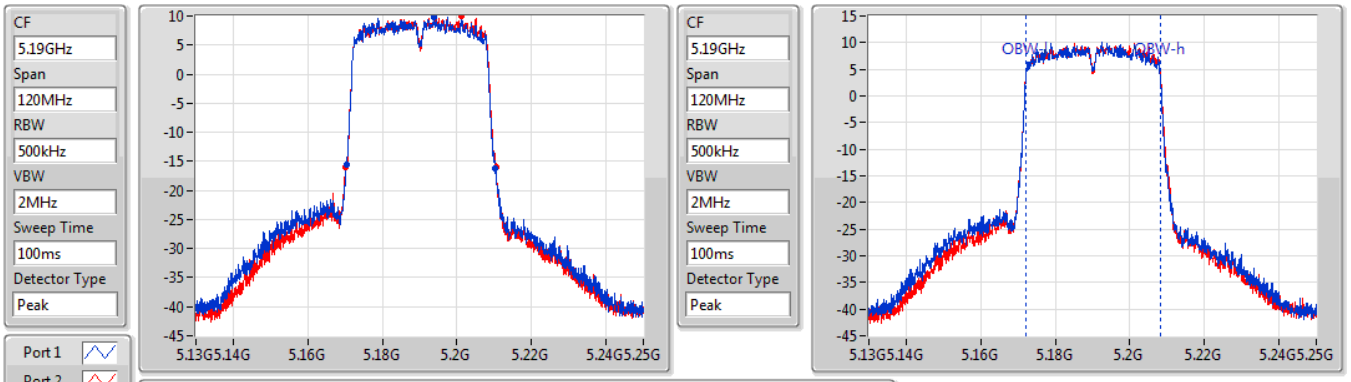
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.92M	5.81633G	5.83325G	17.631M	5.816274G	5.833906G	500k	1
17.22M	5.81636G	5.83358G	17.691M	5.816244G	5.833936G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

08/12/2020



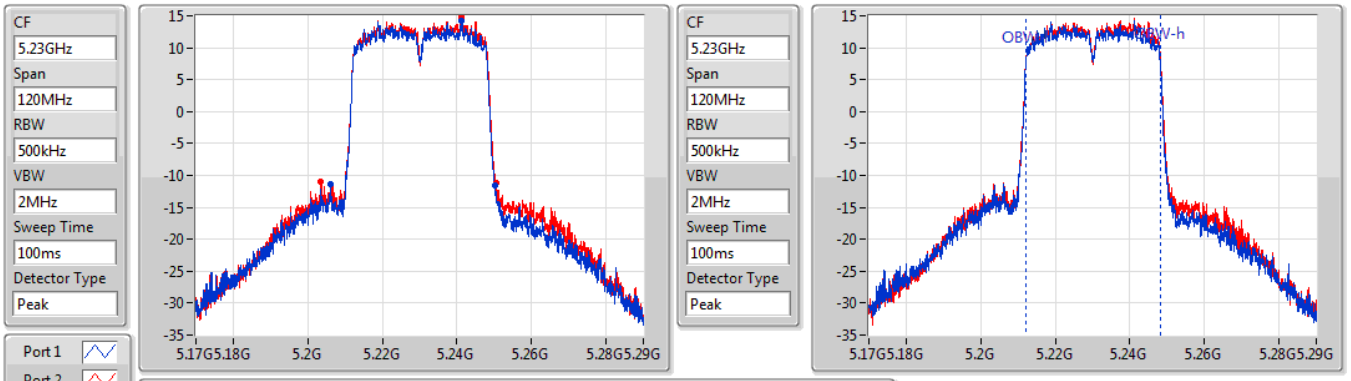
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.96M	5.17032G	5.21028G	35.862M	5.172189G	5.208051G	Inf	1
40.14M	5.17026G	5.2104G	35.982M	5.172189G	5.208171G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

08/12/2020



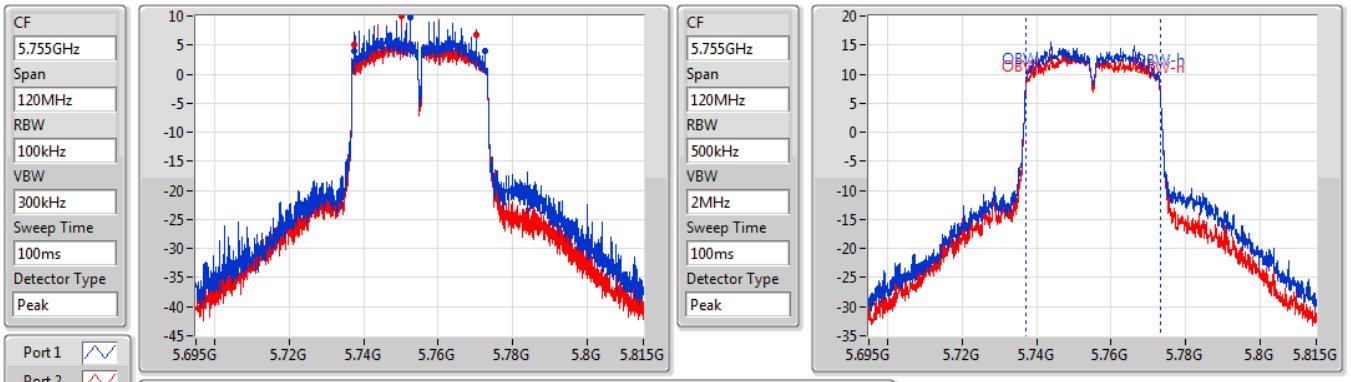
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.22M	5.206G	5.25022G	35.982M	5.212129G	5.248111G	Inf	1
46.86M	5.20354G	5.2504G	36.102M	5.212129G	5.248231G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

08/12/2020



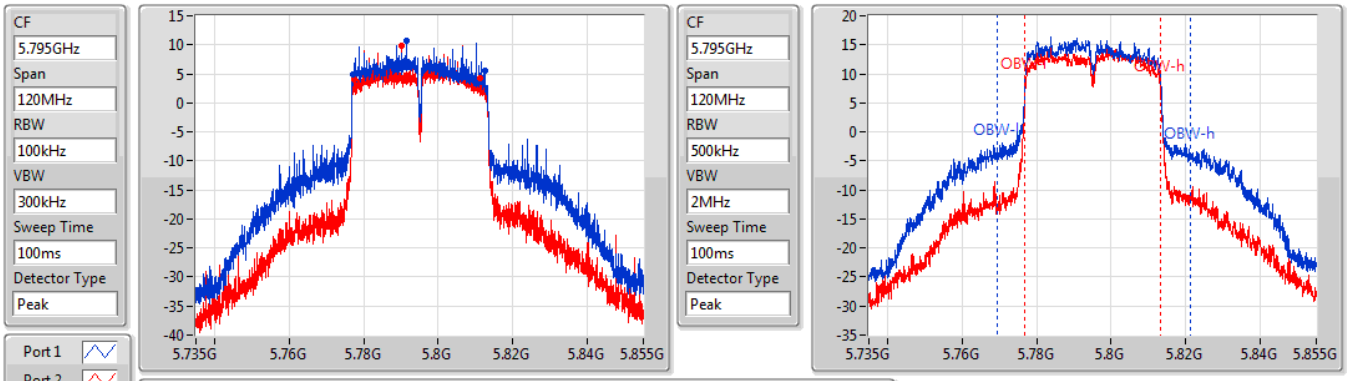
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.98M	5.73754G	5.77252G	36.042M	5.737069G	5.773111G	500k	1
32.52M	5.7376G	5.77012G	36.042M	5.737069G	5.773111G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

08/12/2020



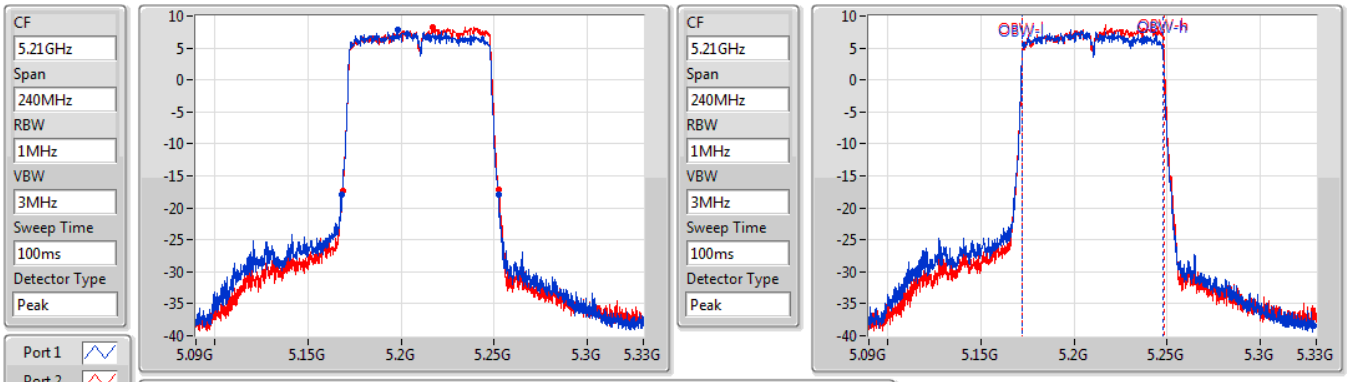
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.64M	5.777G	5.81264G	51.874M	5.769273G	5.821147G	500k	1
33.96M	5.77736G	5.81132G	36.282M	5.776949G	5.813231G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

08/12/2020



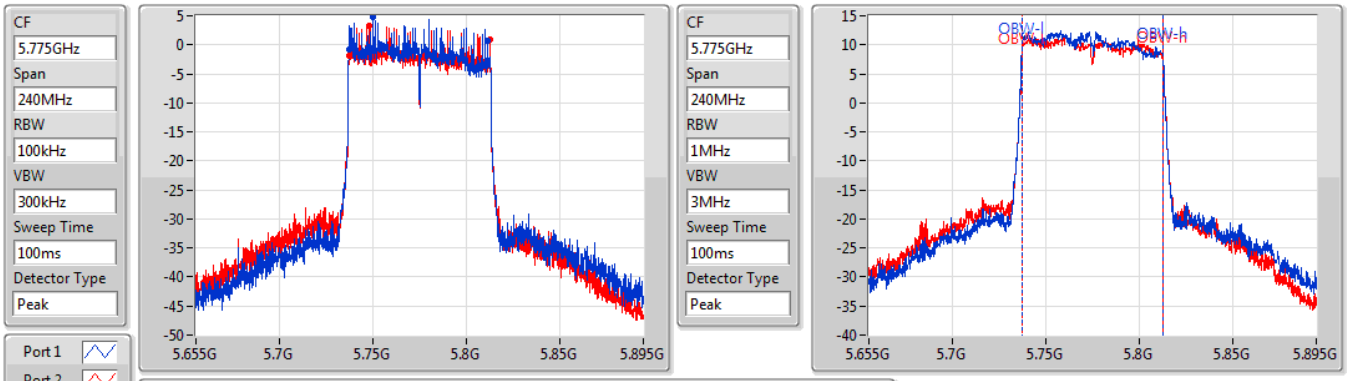
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.12M	5.16812G	5.25224G	75.682M	5.172219G	5.247901G	Inf	1
83.64M	5.1686G	5.25224G	75.802M	5.172339G	5.248141G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

08/12/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
74.4M	5.73696G	5.81136G	75.922M	5.736979G	5.812901G	500k	1
75.72M	5.73696G	5.81268G	75.922M	5.736979G	5.812901G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	27.02	0.50350
802.11ac VHT20_Nss1,(MCS0)_2TX	27.35	0.54325
802.11ac VHT40_Nss1,(MCS0)_2TX	26.73	0.47098
802.11ac VHT80_Nss1,(MCS0)_2TX	20.43	0.11041
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.36	0.43251
802.11ac VHT20_Nss1,(MCS0)_2TX	26.36	0.43251
802.11ac VHT40_Nss1,(MCS0)_2TX	27.78	0.59979
802.11ac VHT80_Nss1,(MCS0)_2TX	23.90	0.24547

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	0.98	22.27	22.62	25.46	30.00
5200MHz	Pass	0.98	23.76	24.09	26.94	30.00
5240MHz	Pass	0.98	23.79	24.22	27.02	30.00
5745MHz	Pass	0.98	23.30	22.84	26.09	30.00
5785MHz	Pass	0.98	23.82	22.82	26.36	30.00
5825MHz	Pass	0.98	22.60	22.93	25.78	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	0.98	22.49	22.86	25.69	30.00
5200MHz	Pass	0.98	24.02	24.61	27.34	30.00
5240MHz	Pass	0.98	24.10	24.56	27.35	30.00
5745MHz	Pass	0.98	22.65	22.20	25.44	30.00
5785MHz	Pass	0.98	23.47	22.36	25.96	30.00
5825MHz	Pass	0.98	22.73	23.90	26.36	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	0.98	19.51	19.82	22.68	30.00
5230MHz	Pass	0.98	23.43	23.99	26.73	30.00
5755MHz	Pass	0.98	24.09	22.99	26.59	30.00
5795MHz	Pass	0.98	25.30	24.16	27.78	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	0.98	17.00	17.80	20.43	30.00
5775MHz	Pass	0.98	21.16	20.61	23.90	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	27.35	0.54325
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	26.73	0.47098
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	20.43	0.11041
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	26.36	0.43251
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	27.78	0.59979
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	23.90	0.24547

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.97	22.49	22.86	25.69	30.00
5200MHz	Pass	3.97	24.02	24.61	27.34	30.00
5240MHz	Pass	3.97	24.10	24.56	27.35	30.00
5745MHz	Pass	3.97	22.65	22.20	25.44	30.00
5785MHz	Pass	3.97	23.47	22.36	25.96	30.00
5825MHz	Pass	3.97	22.73	23.90	26.36	30.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	3.97	19.51	19.82	22.68	30.00
5230MHz	Pass	3.97	23.43	23.99	26.73	30.00
5755MHz	Pass	3.97	24.09	22.99	26.59	30.00
5795MHz	Pass	3.97	25.30	24.16	27.78	30.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	3.97	17.00	17.80	20.43	30.00
5775MHz	Pass	3.97	21.16	20.61	23.90	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	13.70
802.11ac VHT20_Nss1,(MCS0)_2TX	13.67
802.11ac VHT40_Nss1,(MCS0)_2TX	10.25
802.11ac VHT80_Nss1,(MCS0)_2TX	0.82
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.37
802.11ac VHT20_Nss1,(MCS0)_2TX	11.07
802.11ac VHT40_Nss1,(MCS0)_2TX	9.50
802.11ac VHT80_Nss1,(MCS0)_2TX	3.11

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

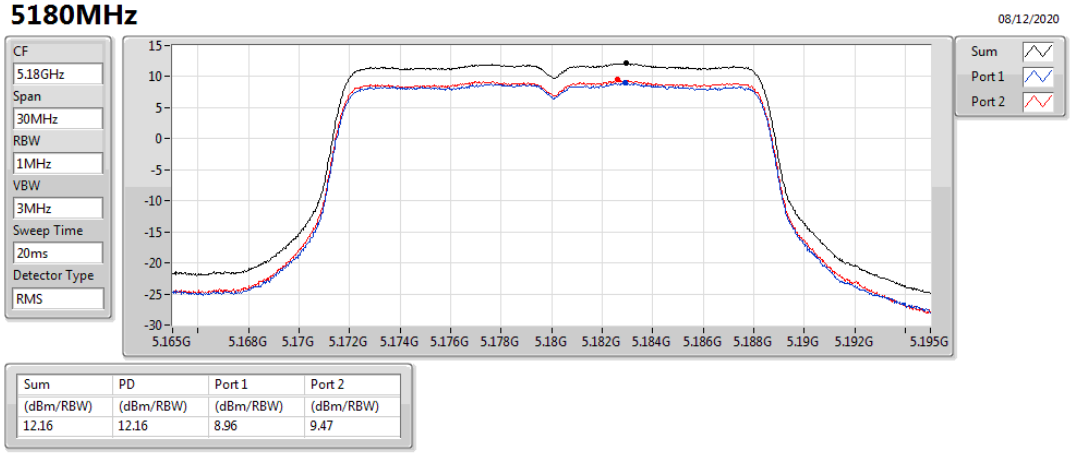
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.97	8.96	9.47	12.16	17.00
5200MHz	Pass	3.97	10.34	11.04	13.63	17.00
5240MHz	Pass	3.97	10.41	11.01	13.70	17.00
5745MHz	Pass	3.97	8.72	8.10	11.37	30.00
5785MHz	Pass	3.97	9.21	7.98	11.31	30.00
5825MHz	Pass	3.97	8.08	8.52	10.91	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.97	8.65	9.01	11.71	17.00
5200MHz	Pass	3.97	10.27	10.57	13.27	17.00
5240MHz	Pass	3.97	10.44	11.00	13.67	17.00
5745MHz	Pass	3.97	7.62	7.14	10.26	30.00
5785MHz	Pass	3.97	8.27	7.15	10.58	30.00
5825MHz	Pass	3.97	7.94	8.48	11.07	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	3.97	3.15	3.37	6.22	17.00
5230MHz	Pass	3.97	6.94	7.64	10.25	17.00
5755MHz	Pass	3.97	6.50	5.43	8.89	30.00
5795MHz	Pass	3.97	7.50	6.13	9.50	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	3.97	-2.47	-1.65	0.82	17.00
5775MHz	Pass	3.97	0.87	-0.25	3.11	30.00

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX PSD

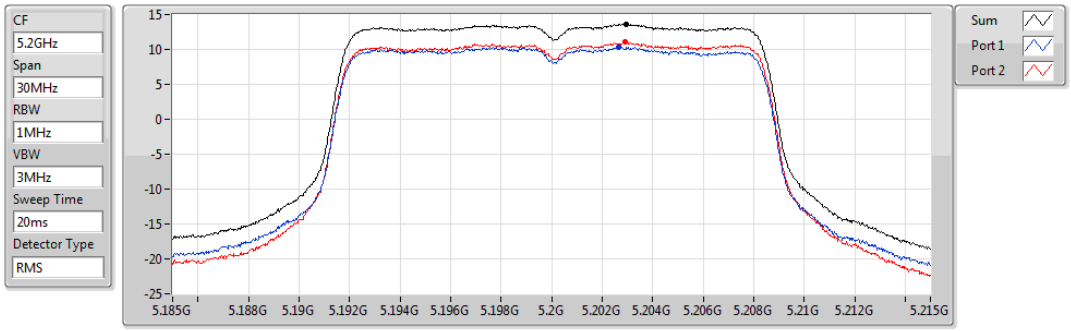
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.16	12.16	8.96	9.47

802.11a_Nss1,(6Mbps)_2TX PSD

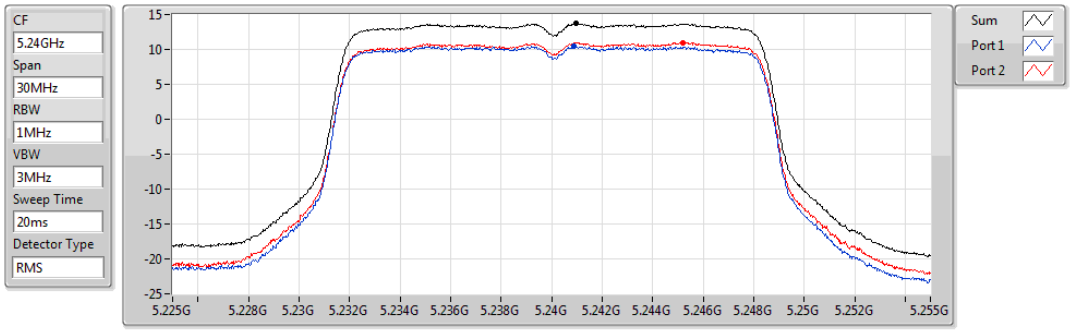
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.63	13.63	10.34	11.04

802.11a_Nss1,(6Mbps)_2TX PSD

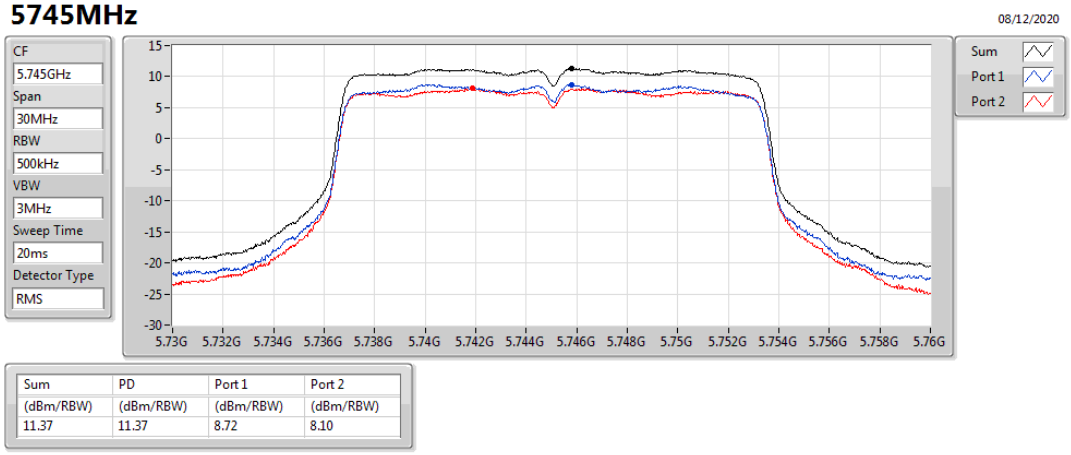
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.70	13.70	10.41	11.01

802.11a_Nss1,(6Mbps)_2TX PSD

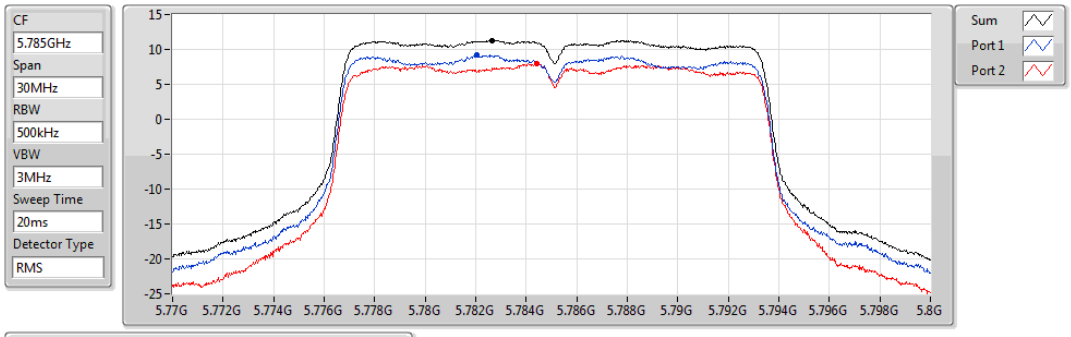
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.37	11.37	8.72	8.10

802.11a_Nss1,(6Mbps)_2TX PSD

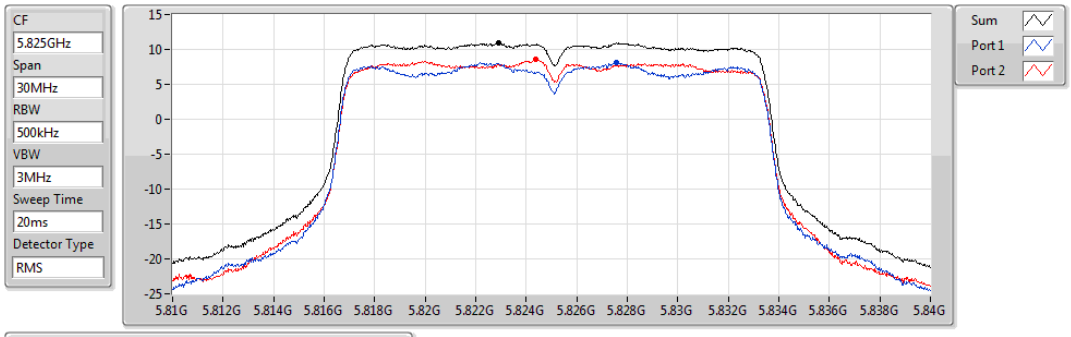
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.31	11.31	9.21	7.98

802.11a_Nss1,(6Mbps)_2TX PSD

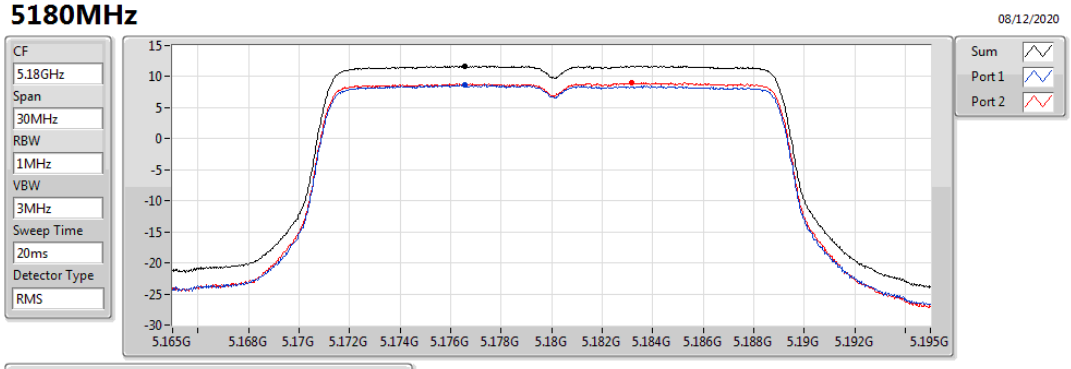
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.91	10.91	8.08	8.52

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

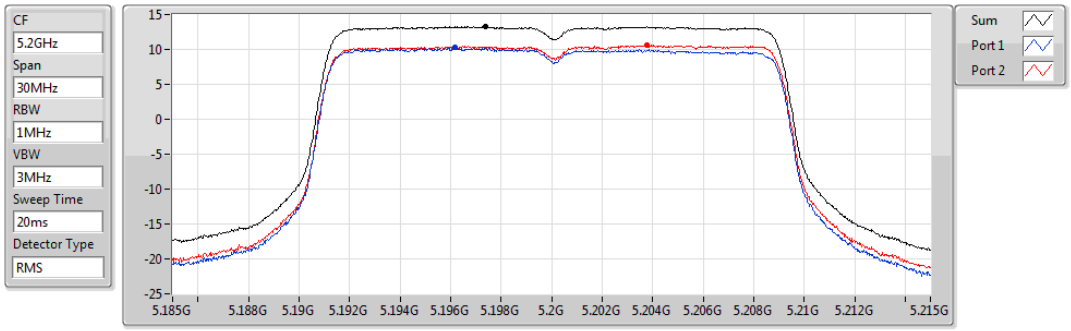
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.71	11.71	8.65	9.01

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

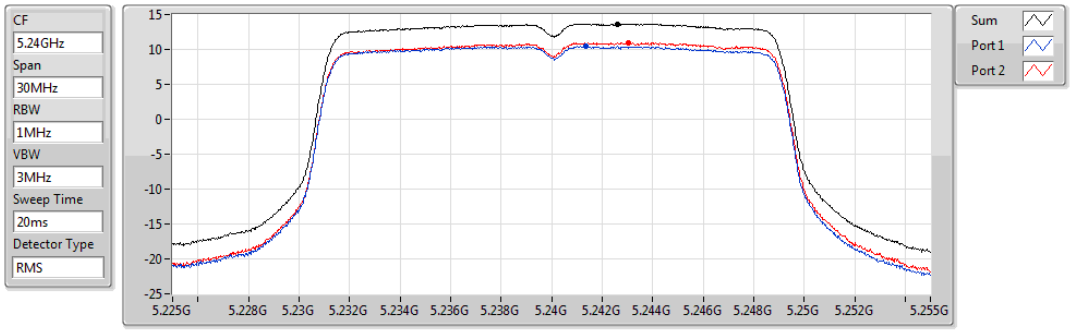
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.27	13.27	10.27	10.57

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

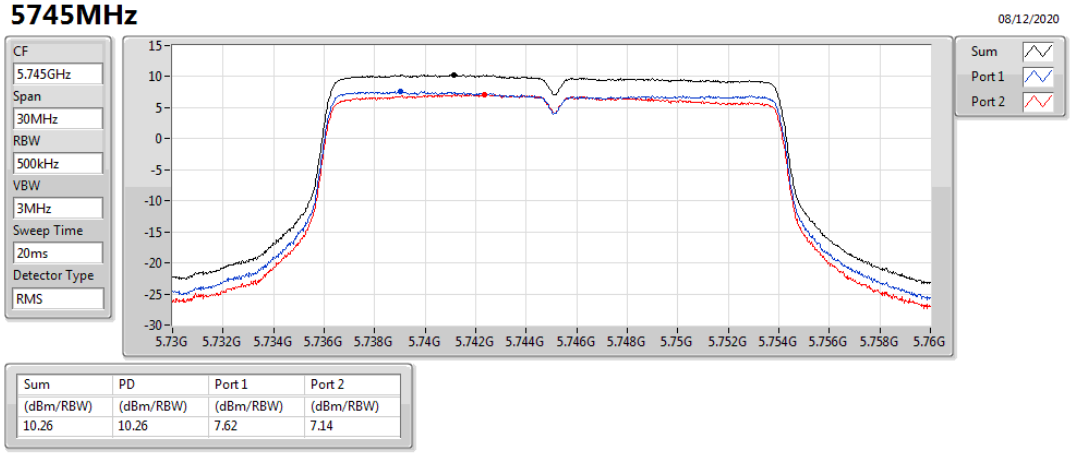
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.67	13.67	10.44	11.00

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

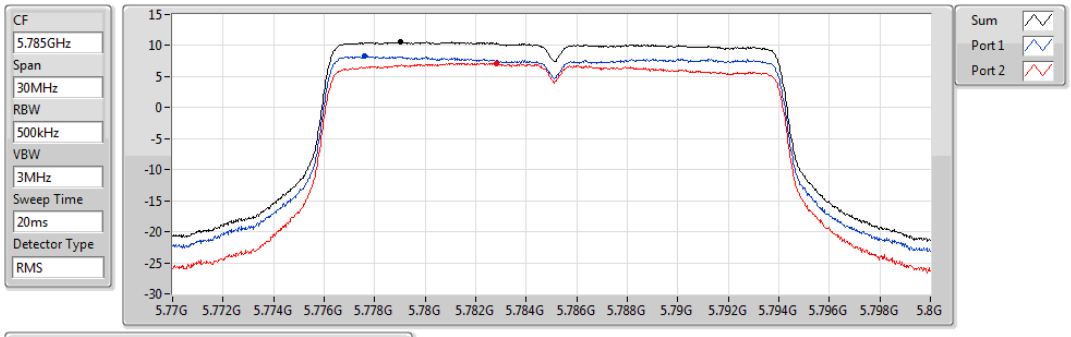
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.26	10.26	7.62	7.14

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

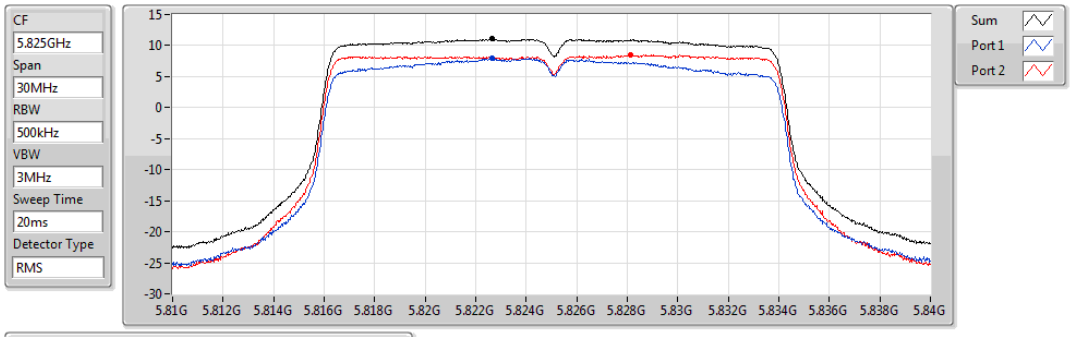
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.58	10.58	8.27	7.15

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

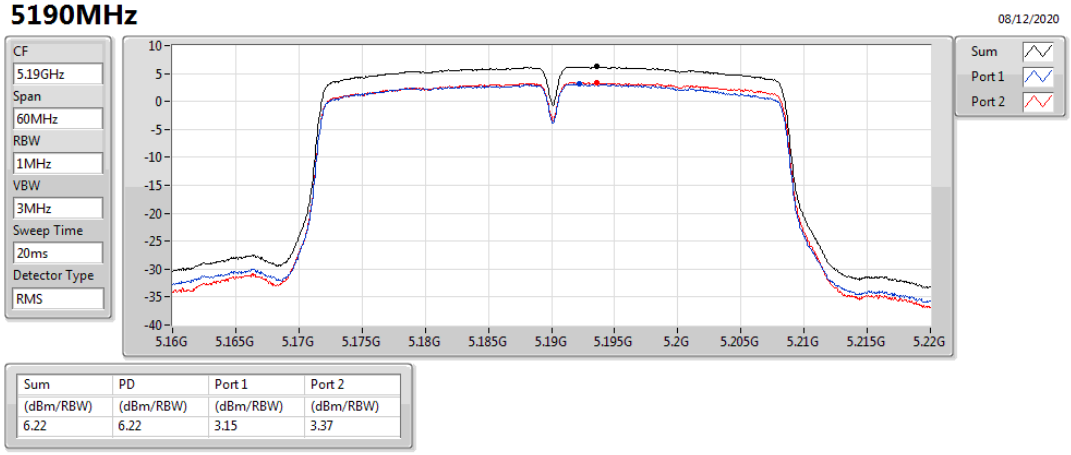
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.07	11.07	7.94	8.48

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

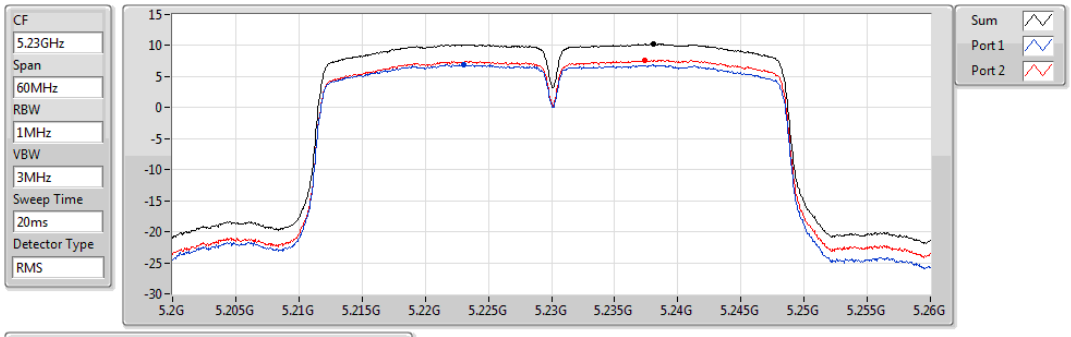
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.22	6.22	3.15	3.37

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

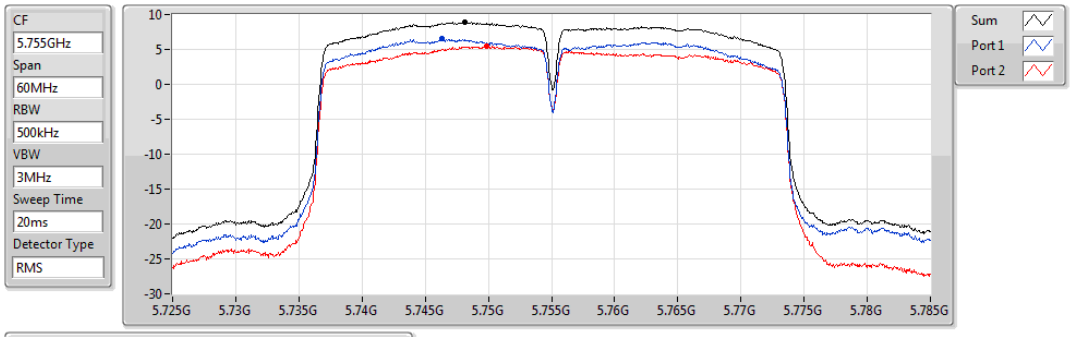
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.25	10.25	6.94	7.64

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

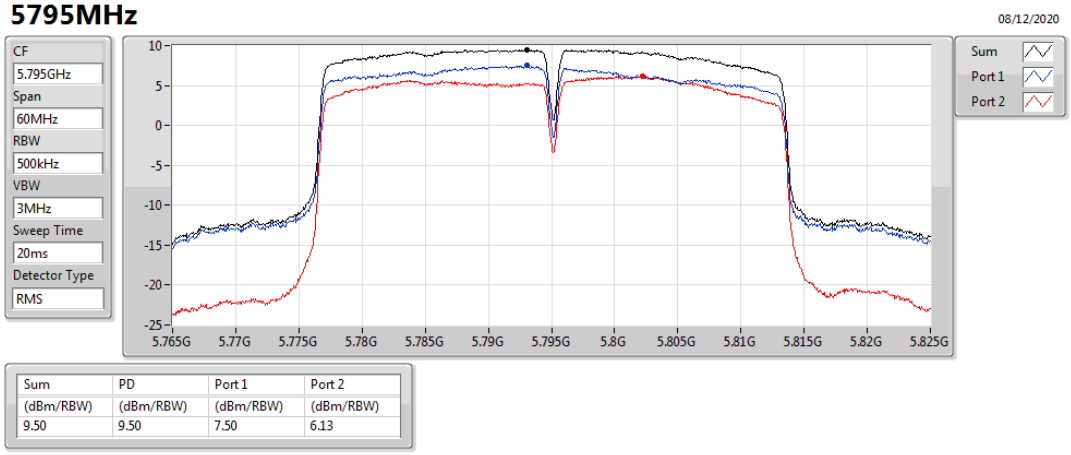
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.89	8.89	6.50	5.43

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

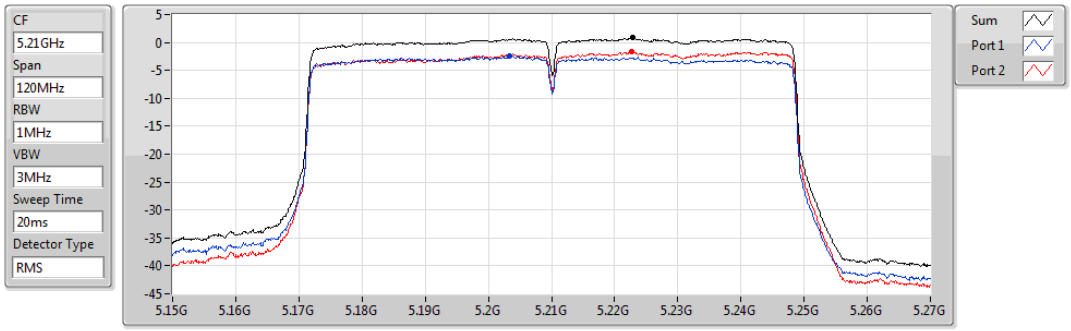
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.50	9.50	7.50	6.13

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

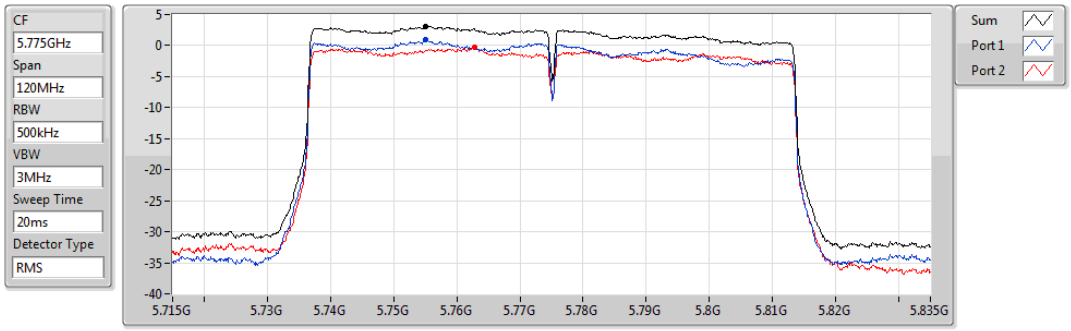
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.82	0.82	-2.47	-1.65

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

5775MHz



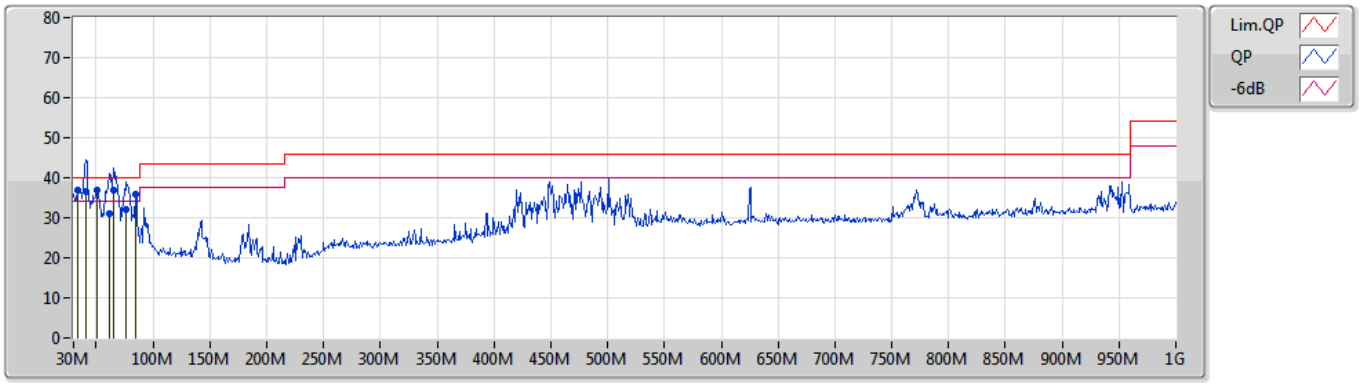
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.11	3.11	0.87	-0.25

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	64.92M	36.97	40.00	-3.03	Vertical

Mode 2

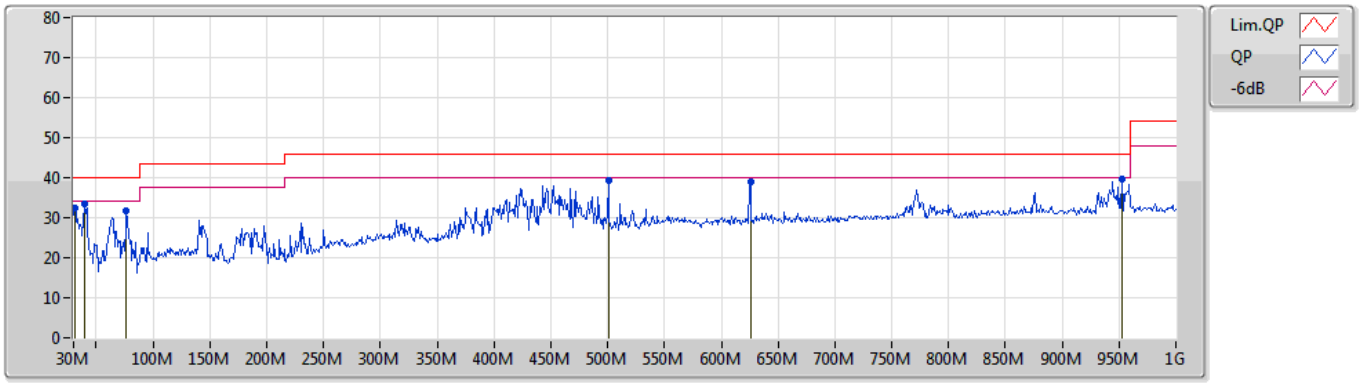
10/12/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	33.88M	36.95	40.00	-3.05	-5.71	3	Vertical	0	1.00	-	42.66	22.54	0.20	28.45
QP	40.67M	36.63	40.00	-3.37	-9.26	3	Vertical	303	1.00	-	45.89	18.99	0.31	28.56
PK	50.37M	36.75	40.00	-3.25	-14.07	3	Vertical	83	1.25	-	50.82	14.20	0.40	28.67
QP	62.01M	31.08	40.00	-8.92	-15.62	3	Vertical	347	1.00	-	46.70	12.42	0.50	28.54
QP	64.92M	36.97	40.00	-3.03	-15.66	3	Vertical	0	2.00	"Worst"	52.63	12.37	0.50	28.53
QP	75.59M	31.95	40.00	-8.05	-15.41	3	Vertical	3	1.25	-	47.36	12.62	0.60	28.63
PK	84.32M	35.77	40.00	-4.23	-14.19	3	Vertical	210	1.00	-	49.96	13.72	0.69	28.60

Mode 2

10/12/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30.97M	32.52	40.00	-7.48	-4.46	3	Horizontal	276	2.00	-	36.98	23.78	0.20	28.44
PK	39.7M	33.38	40.00	-6.62	-8.83	3	Horizontal	339	1.00	-	42.21	19.42	0.29	28.54
PK	76.56M	31.89	40.00	-8.11	-15.36	3	Horizontal	240	2.00	-	47.25	12.67	0.60	28.63
PK	500.45M	39.35	46.00	-6.65	-3.21	3	Horizontal	207	1.50	-	42.56	23.53	2.50	29.24
PK	625.58M	38.81	46.00	-7.19	-1.29	3	Horizontal	200	1.25	-	40.10	25.37	2.80	29.46
PK	952.47M	39.82	46.00	-6.18	1.78	3	Horizontal	248	2.00	"Worst"	38.04	26.80	3.51	28.53

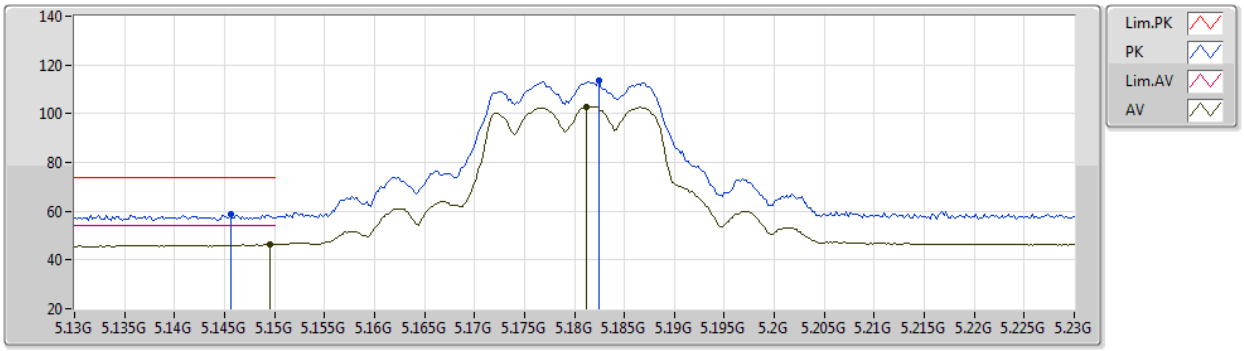
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.145G	53.99	54.00	-0.01	3	Horizontal	274	1.80	-

802.11a_Nss1,(6Mbps)_2TX

26/09/2020

5180MHz_TX



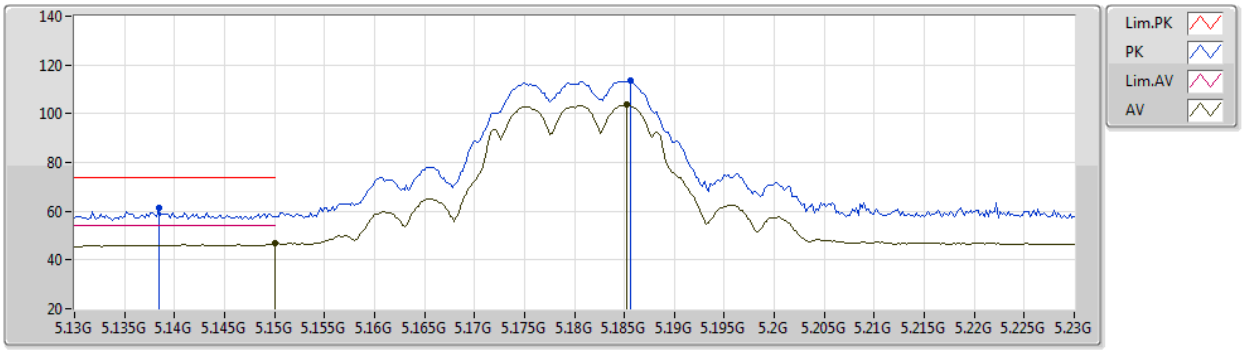
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1456G	58.75	74.00	-15.25	53.43	3	Vertical	184	1.80	-	33.90	6.75	35.33
AV	5.1496G	46.31	54.00	-7.69	40.99	3	Vertical	184	1.80	-	33.90	6.75	35.33
PK	5.1824G	113.70	Inf	-Inf	108.31	3	Vertical	184	1.80	-	33.90	6.78	35.29
AV	5.1812G	102.88	Inf	-Inf	97.49	3	Vertical	184	1.80	-	33.90	6.78	35.29

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

26/09/2020



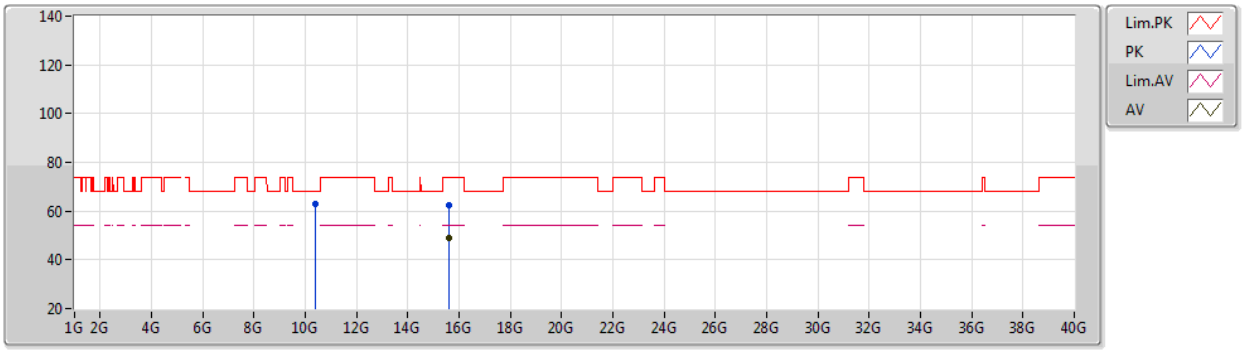
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1384G	61.59	74.00	-12.41	56.29	3	Horizontal	275	1.80	-	33.90	6.74	35.34
AV	5.15G	46.67	54.00	-7.33	41.35	3	Horizontal	275	1.80	-	33.90	6.75	35.33
PK	5.1856G	113.47	Inf	-Inf	108.07	3	Horizontal	275	1.80	-	33.90	6.79	35.29
AV	5.1852G	103.94	Inf	-Inf	98.54	3	Horizontal	275	1.80	-	33.90	6.79	35.29

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

25/09/2020



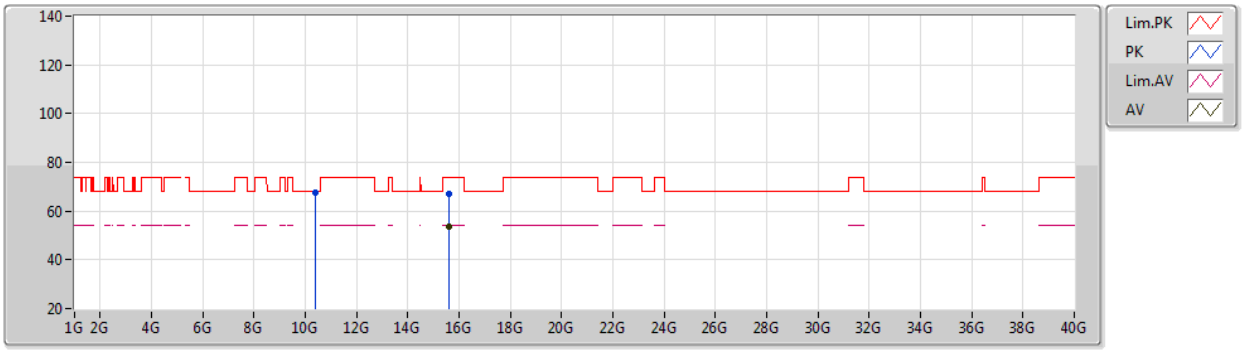
EUT Y_2TX
Setting 19.5
03-C-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.401G	62.89	68.20	-5.31	50.15	3	Vertical	58	1.65	-	38.00	9.66	34.92
PK	15.59482G	62.35	74.00	-11.65	48.28	3	Vertical	78	2.47	-	37.91	11.22	35.06
AV	15.59846G	48.73	54.00	-5.27	34.67	3	Vertical	78	2.47	-	37.90	11.22	35.06

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

25/09/2020



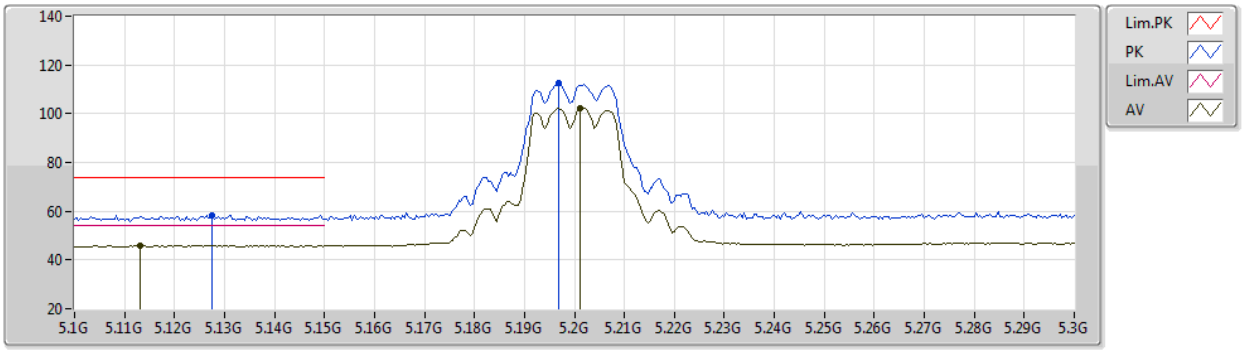
EUT Y_2TX
Setting 19.5
03-C-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.40156G	67.42	68.20	-0.78	54.68	3	Horizontal	66	2.12	-	38.00	9.66	34.92
PK	15.60648G	67.18	74.00	-6.82	53.14	3	Horizontal	51	1.59	-	37.89	11.22	35.07
AV	15.60156G	53.62	54.00	-0.38	39.56	3	Horizontal	51	1.59	-	37.90	11.22	35.06

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/09/2020



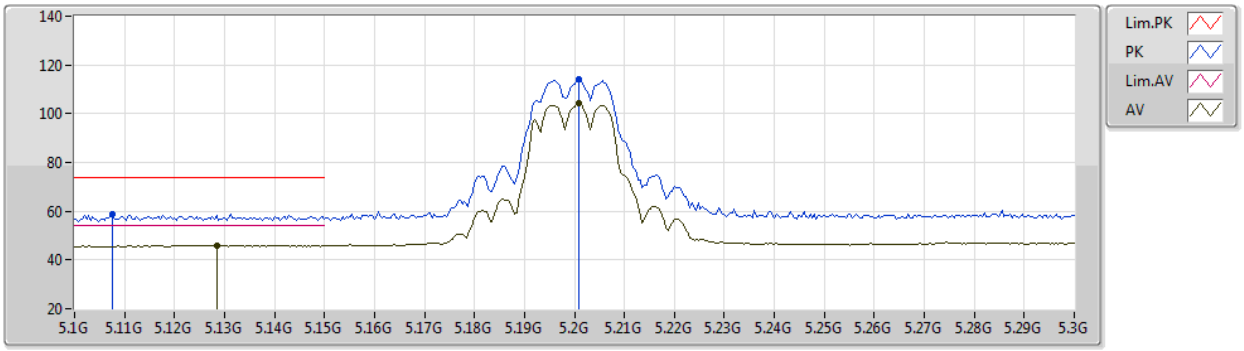
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1276G	58.42	74.00	-15.58	53.14	3	Vertical	186	1.90	-	33.90	6.73	35.35
AV	5.1132G	45.87	54.00	-8.13	40.63	3	Vertical	186	1.90	-	33.90	6.71	35.37
PK	5.1968G	112.74	Inf	-Inf	107.32	3	Vertical	186	1.90	-	33.90	6.80	35.28
AV	5.2012G	102.21	Inf	-Inf	96.78	3	Vertical	186	1.90	-	33.90	6.80	35.27

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/09/2020



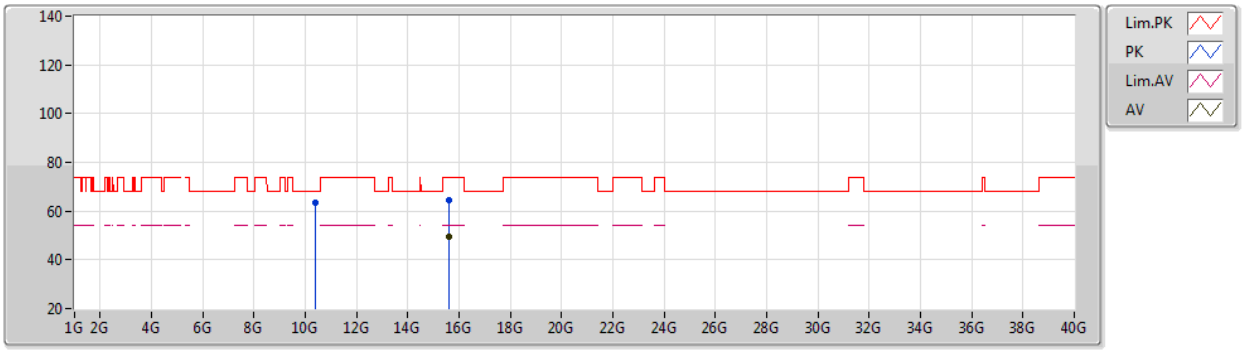
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1076G	58.91	74.00	-15.09	53.67	3	Horizontal	269	1.82	-	33.90	6.71	35.37
AV	5.1284G	46.09	54.00	-7.91	40.81	3	Horizontal	269	1.82	-	33.90	6.73	35.35
PK	5.2008G	114.11	Inf	-Inf	108.68	3	Horizontal	269	1.82	-	33.90	6.80	35.27
AV	5.2008G	104.19	Inf	-Inf	98.76	3	Horizontal	269	1.82	-	33.90	6.80	35.27

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/09/2020



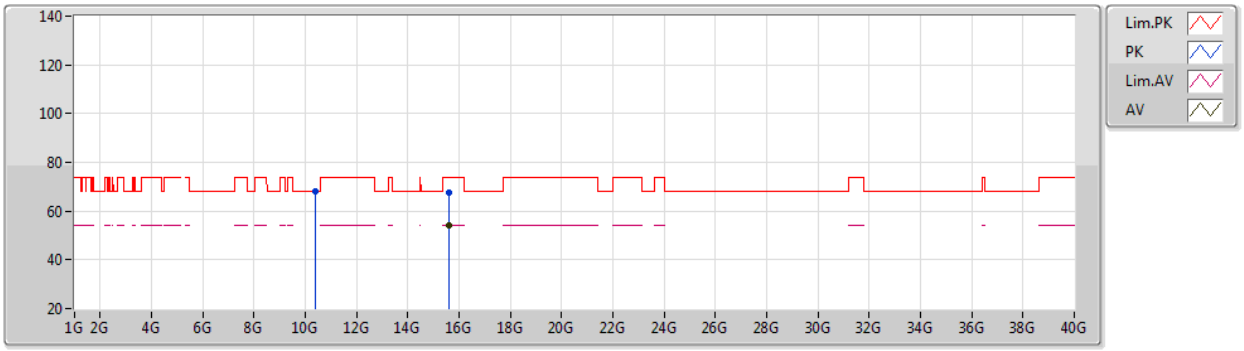
EUT Y_2TX
Setting 19.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4016G	63.54	68.20	-4.66	50.80	3	Vertical	58	1.65	-	38.00	9.66	34.92
PK	15.59814G	64.65	74.00	-9.35	50.59	3	Vertical	78	2.47	-	37.90	11.22	35.06
AV	15.59886G	49.58	54.00	-4.42	35.52	3	Vertical	78	2.47	-	37.90	11.22	35.06

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

26/09/2020



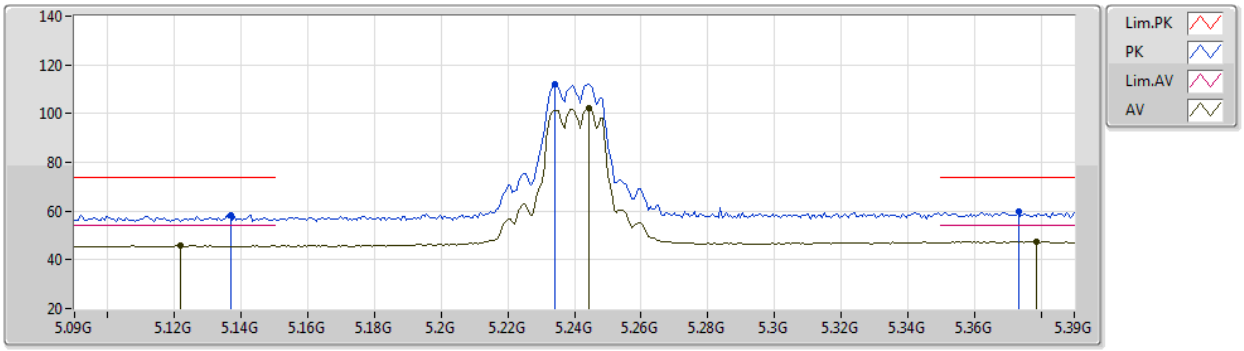
EUT Y_2TX
Setting 19.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4018G	68.02	68.20	-0.18	55.28	3	Horizontal	66	2.12	-	38.00	9.66	34.92
PK	15.5985G	67.56	74.00	-6.44	53.50	3	Horizontal	51	1.59	-	37.90	11.22	35.06
AV	15.59838G	53.89	54.00	-0.11	39.83	3	Horizontal	51	1.59	-	37.90	11.22	35.06

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/09/2020



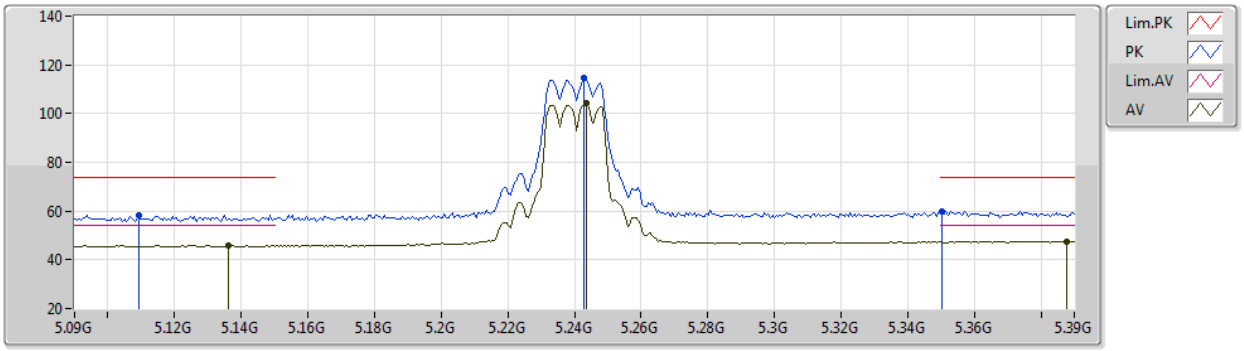
EUT Y_2TX
Setting 19
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1368G	58.43	74.00	-15.57	53.13	3	Vertical	184	1.83	-	33.90	6.74	35.34
AV	5.1218G	45.74	54.00	-8.26	40.48	3	Vertical	184	1.83	-	33.90	6.72	35.36
PK	5.234G	111.92	Inf	-Inf	106.32	3	Vertical	184	1.83	-	33.97	6.87	35.24
AV	5.2442G	102.25	Inf	-Inf	96.60	3	Vertical	184	1.83	-	33.99	6.89	35.23
PK	5.3732G	59.96	74.00	-14.04	53.55	3	Vertical	184	1.83	-	34.35	7.15	35.09
AV	5.3786G	47.49	54.00	-6.51	41.07	3	Vertical	184	1.83	-	34.34	7.16	35.08

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/09/2020



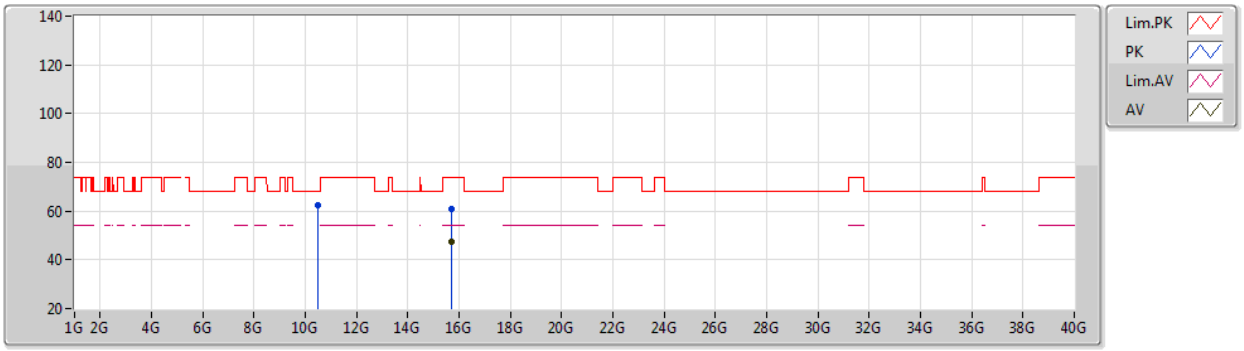
EUT Y_2TX
Setting 19
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1092G	58.50	74.00	-15.50	53.26	3	Horizontal	93	1.80	-	33.90	6.71	35.37
AV	5.1362G	45.94	54.00	-8.06	40.64	3	Horizontal	93	1.80	-	33.90	6.74	35.34
PK	5.243G	114.42	Inf	-Inf	108.77	3	Horizontal	93	1.80	-	33.99	6.89	35.23
AV	5.2436G	104.24	Inf	-Inf	98.59	3	Horizontal	93	1.80	-	33.99	6.89	35.23
PK	5.3504G	59.93	74.00	-14.07	53.54	3	Horizontal	93	1.80	-	34.40	7.10	35.11
AV	5.3876G	47.52	54.00	-6.48	41.09	3	Horizontal	93	1.80	-	34.32	7.18	35.07

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/09/2020



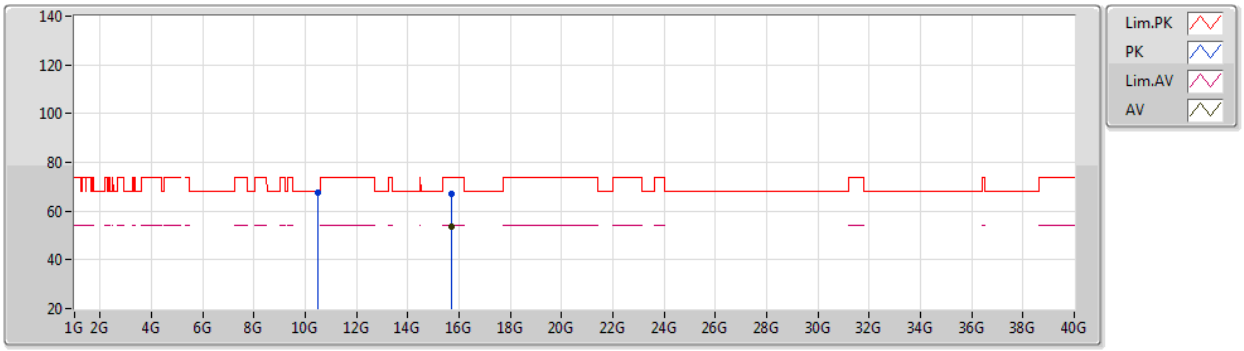
EUT Y_2TX
Setting 19
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4763G	62.36	68.20	-5.84	49.41	3	Vertical	65	1.63	-	38.15	9.67	34.87
PK	15.7163G	60.85	74.00	-13.15	47.09	3	Vertical	81	1.80	-	37.63	11.27	35.14
AV	15.7201G	47.58	54.00	-6.42	33.83	3	Vertical	81	1.80	-	37.62	11.27	35.14

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

26/09/2020



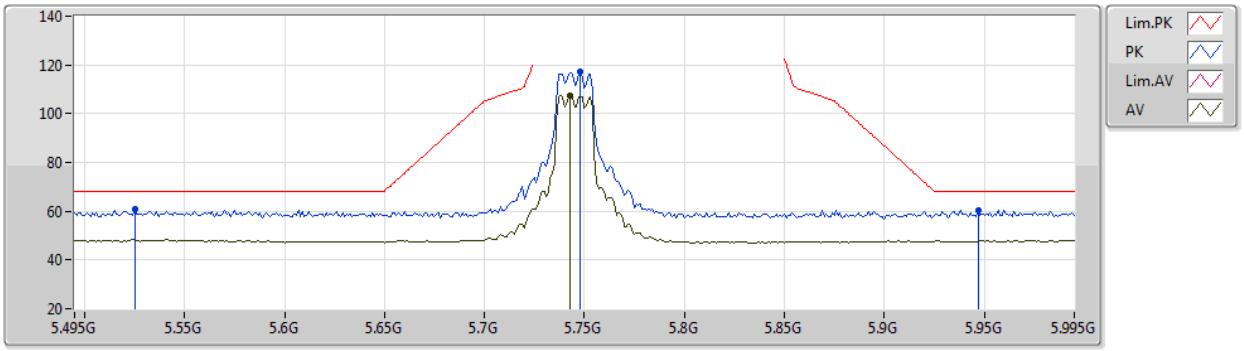
EUT Y_2TX
Setting 19
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4764G	67.80	68.20	-0.40	54.85	3	Horizontal	64	2.13	-	38.15	9.67	34.87
PK	15.7245G	67.15	74.00	-6.85	53.41	3	Horizontal	55	1.89	-	37.60	11.28	35.14
AV	15.7186G	53.63	54.00	-0.37	39.87	3	Horizontal	55	1.89	-	37.63	11.27	35.14

802.11a_Nss1,(6Mbps)_2TX

26/09/2020

5745MHz_TX



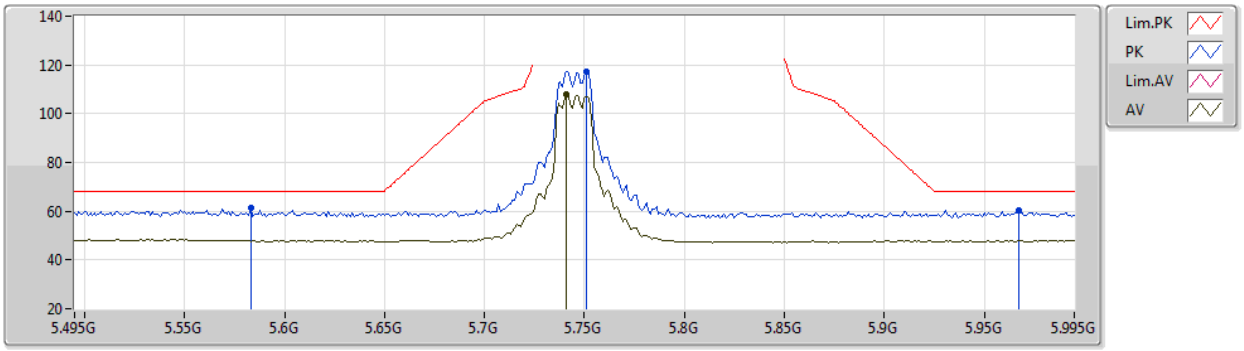
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.525G	60.78	68.20	-7.42	54.14	3	Vertical	87	1.07	-	34.45	7.14	34.95
PK	5.748G	117.44	Inf	-Inf	111.01	3	Vertical	87	1.07	-	34.20	7.17	34.94
AV	5.743G	107.51	Inf	-Inf	101.08	3	Vertical	87	1.07	-	34.20	7.17	34.94
PK	5.947G	60.60	68.20	-7.60	53.44	3	Vertical	87	1.07	-	34.59	7.49	34.92

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/09/2020



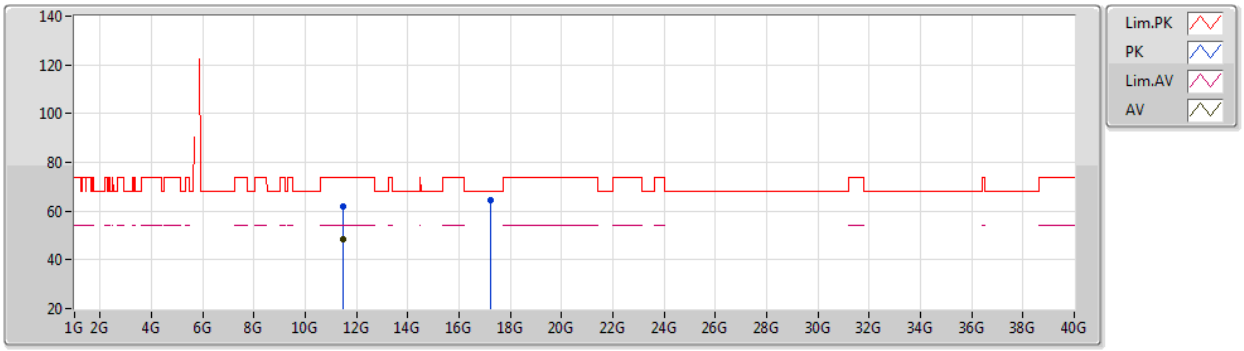
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.583G	61.41	68.20	-6.79	54.88	3	Horizontal	269	1.80	-	34.37	7.11	34.95
PK	5.751G	117.18	Inf	-Inf	110.73	3	Horizontal	269	1.80	-	34.20	7.18	34.93
AV	5.741G	107.79	Inf	-Inf	101.36	3	Horizontal	269	1.80	-	34.20	7.17	34.94
PK	5.967G	60.53	68.20	-7.67	53.29	3	Horizontal	269	1.80	-	34.63	7.53	34.92

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/09/2020



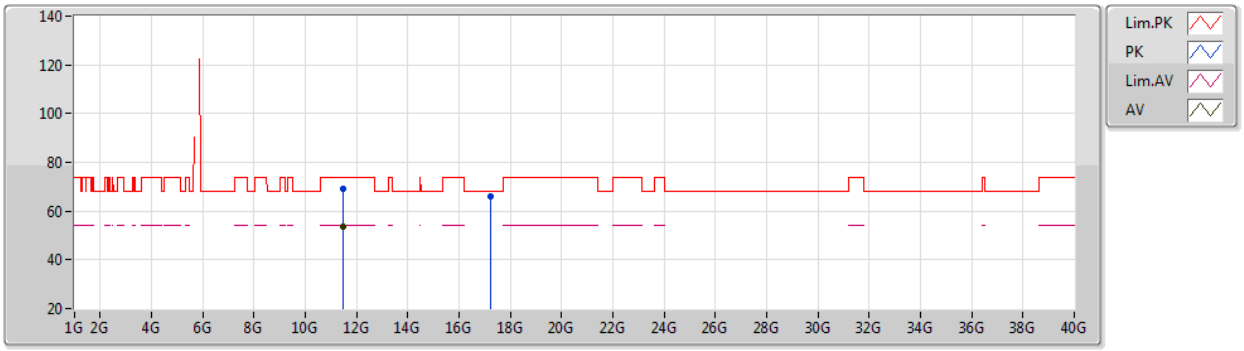
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4882G	61.83	74.00	-12.17	47.68	3	Vertical	45	2.09	-	38.98	9.82	34.65
AV	11.4884G	48.64	54.00	-5.36	34.49	3	Vertical	45	2.09	-	38.98	9.82	34.65
PK	17.2344G	64.38	68.20	-3.82	46.30	3	Vertical	71	2.11	-	40.77	11.89	34.58

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

26/09/2020



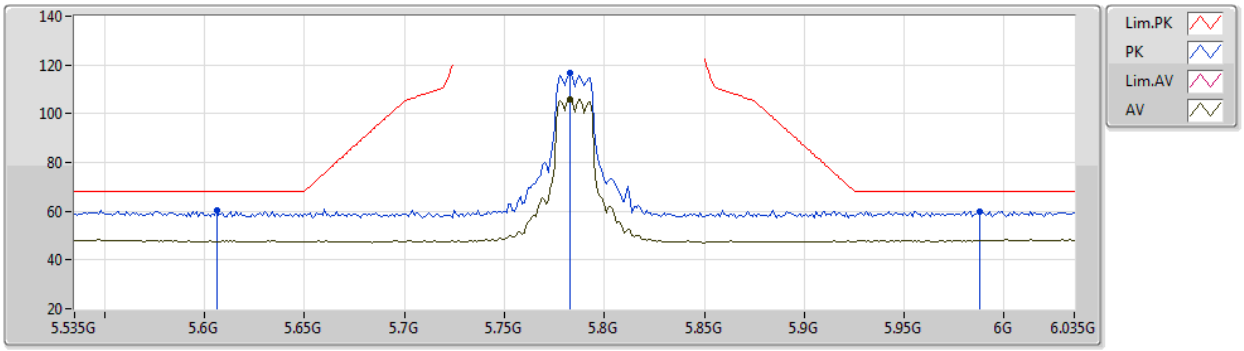
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4925G	69.08	74.00	-4.92	54.93	3	Horizontal	55	1.61	-	38.98	9.82	34.65
AV	11.488G	53.70	54.00	-0.30	39.55	3	Horizontal	55	1.61	-	38.98	9.82	34.65
PK	17.2331G	66.25	68.20	-1.95	48.17	3	Horizontal	103	1.80	-	40.77	11.89	34.58

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/09/2020



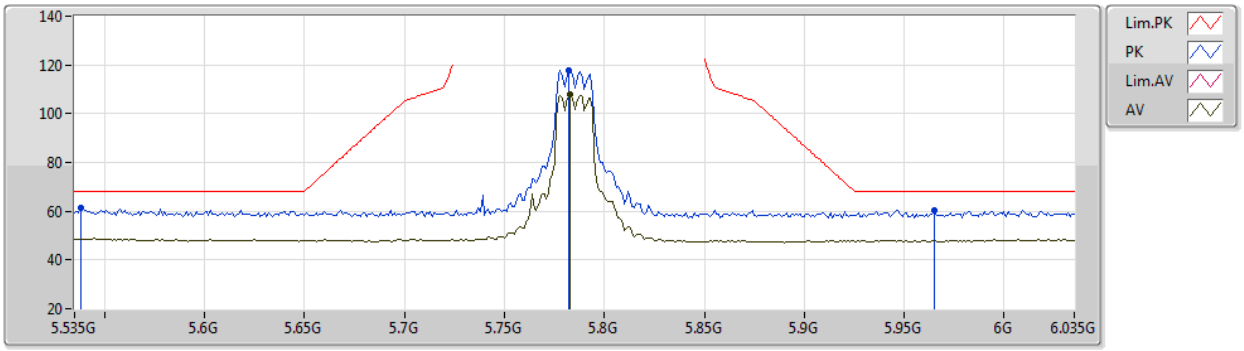
EUT Y_2TX
Setting 21.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.606G	60.44	68.20	-7.76	53.97	3	Vertical	331	1.80	-	34.31	7.10	34.94
PK	5.783G	116.75	Inf	-Inf	110.29	3	Vertical	331	1.80	-	34.20	7.19	34.93
AV	5.783G	105.85	Inf	-Inf	99.39	3	Vertical	331	1.80	-	34.20	7.19	34.93
PK	5.988G	60.01	68.20	-8.19	52.67	3	Vertical	331	1.80	-	34.68	7.58	34.92

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/09/2020



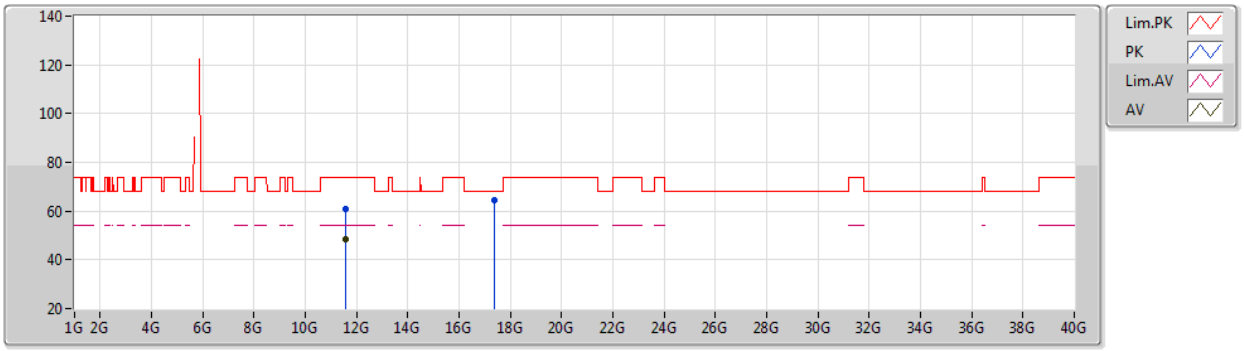
EUT Y_2TX
Setting 21.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.538G	61.45	68.20	-6.75	54.79	3	Horizontal	276	1.78	-	34.48	7.13	34.95
PK	5.782G	117.77	Inf	-Inf	111.31	3	Horizontal	276	1.78	-	34.20	7.19	34.93
AV	5.783G	107.98	Inf	-Inf	101.52	3	Horizontal	276	1.78	-	34.20	7.19	34.93
PK	5.965G	60.32	68.20	-7.88	53.08	3	Horizontal	276	1.78	-	34.63	7.53	34.92

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/09/2020



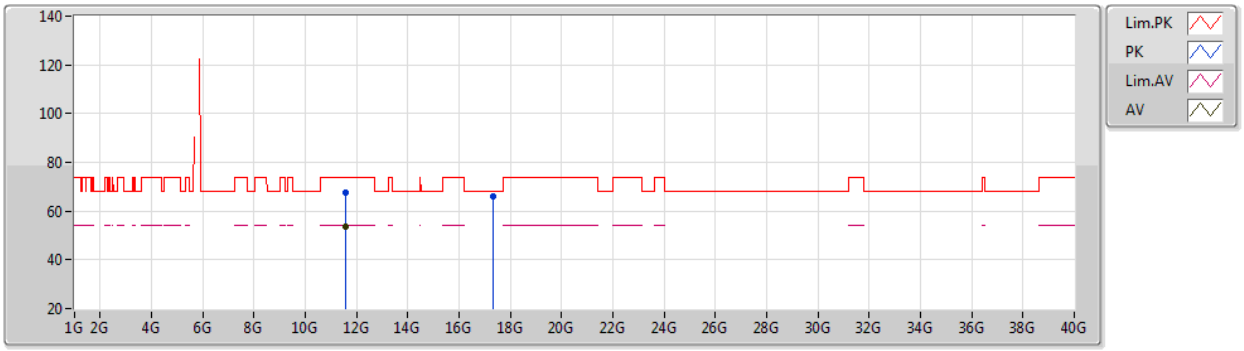
EUT Y_2TX
Setting 21.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.572G	60.88	74.00	-13.12	46.49	3	Vertical	53	2.08	-	39.22	9.84	34.67
AV	11.5679G	48.52	54.00	-5.48	34.15	3	Vertical	53	2.08	-	39.20	9.84	34.67
PK	17.3671G	64.35	68.20	-3.85	45.46	3	Vertical	111	2.07	-	41.50	11.95	34.56

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

26/09/2020



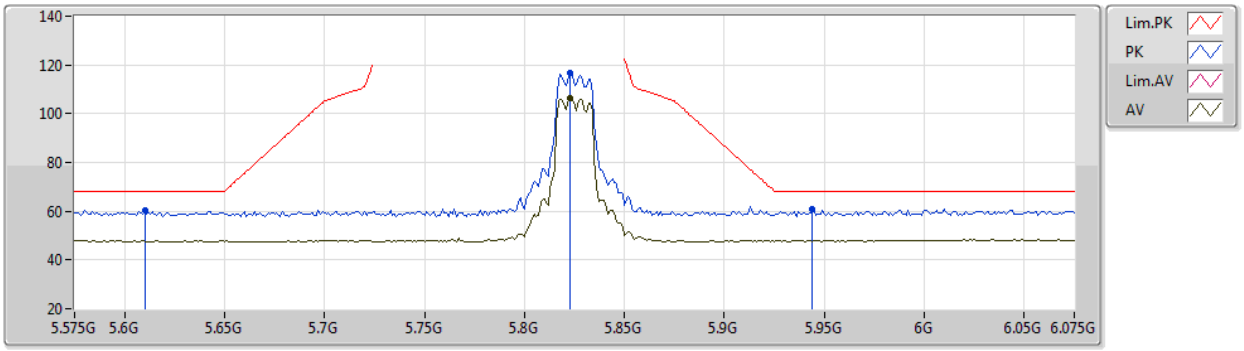
EUT Y_2TX
Setting 21.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.566G	67.65	74.00	-6.35	53.29	3	Horizontal	52	1.57	-	39.20	9.83	34.67
AV	11.5723G	53.41	54.00	-0.59	39.02	3	Horizontal	52	1.57	-	39.22	9.84	34.67
PK	17.35G	66.24	68.20	-1.96	47.46	3	Horizontal	72	1.79	-	41.40	11.94	34.56

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/09/2020



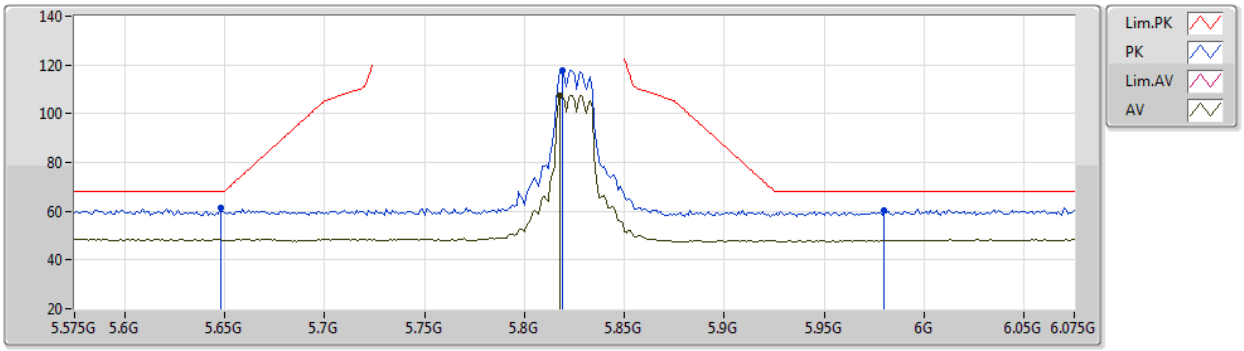
EUT Y_2TX
Setting 21
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.61G	60.59	68.20	-7.61	54.11	3	Vertical	328	2.23	-	34.32	7.10	34.94
PK	5.823G	116.63	Inf	-Inf	110.02	3	Vertical	328	2.23	-	34.29	7.25	34.93
AV	5.823G	106.53	Inf	-Inf	99.92	3	Vertical	328	2.23	-	34.29	7.25	34.93
PK	5.944G	60.68	68.20	-7.52	53.53	3	Vertical	328	2.23	-	34.58	7.49	34.92

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/09/2020



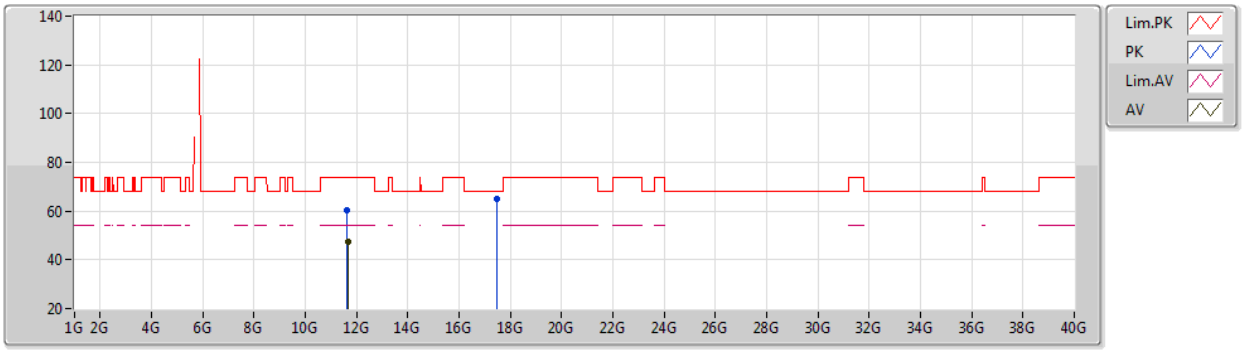
EUT Y_2TX
Setting 21
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.648G	61.21	68.20	-6.99	54.63	3	Horizontal	271	1.67	-	34.40	7.12	34.94
PK	5.819G	117.78	Inf	-Inf	111.19	3	Horizontal	271	1.67	-	34.28	7.24	34.93
AV	5.818G	107.51	Inf	-Inf	100.93	3	Horizontal	271	1.67	-	34.27	7.24	34.93
PK	5.98G	60.40	68.20	-7.80	53.10	3	Horizontal	271	1.67	-	34.66	7.56	34.92

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/09/2020



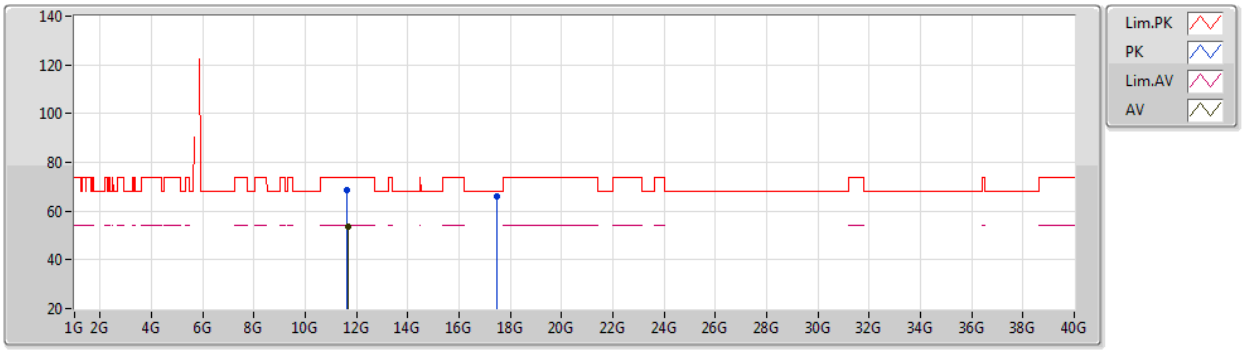
EUT Y_2TX
Setting 21
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6474G	60.21	74.00	-13.79	45.70	3	Vertical	47	2.07	-	39.35	9.85	34.69
AV	11.648G	47.43	54.00	-6.57	32.92	3	Vertical	47	2.07	-	39.35	9.85	34.69
PK	17.4547G	65.15	68.20	-3.05	45.58	3	Vertical	115	1.80	-	42.14	11.98	34.55

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

26/09/2020



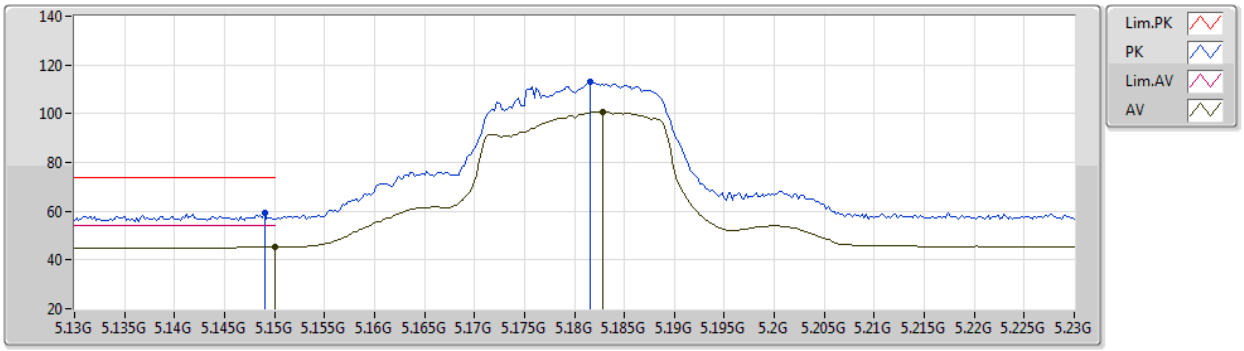
EUT Y_2TX
Setting 21
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6464G	68.51	74.00	-5.49	54.00	3	Horizontal	49	2.06	-	39.35	9.85	34.69
AV	11.6522G	53.45	54.00	-0.55	38.94	3	Horizontal	49	2.06	-	39.35	9.85	34.69
PK	17.4733G	66.28	68.20	-1.92	46.55	3	Horizontal	72	1.80	-	42.29	11.99	34.55

802.11ac VHT20_Nss1,(MCS0)_2TX

25/09/2020

5180MHz_TX



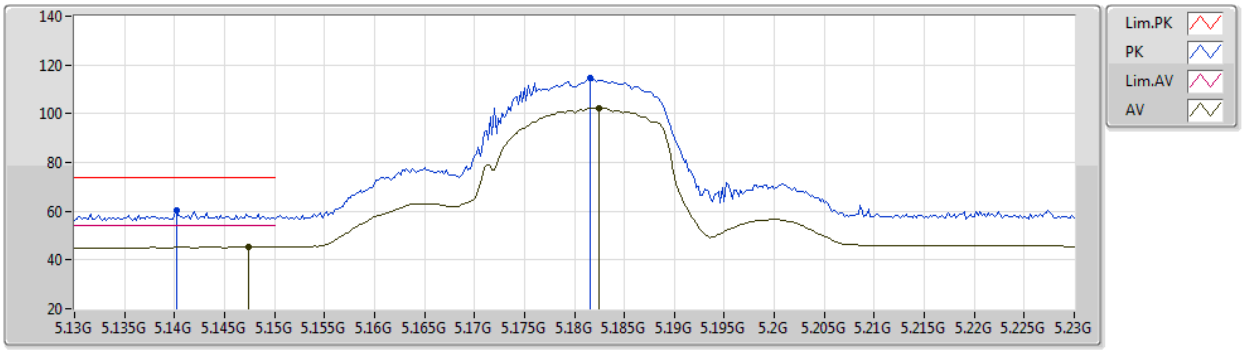
EUT Y_2TX
Setting 19.5
03-C-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.149G	59.36	74.00	-14.64	54.04	3	Vertical	200	1.80	-	33.90	6.75	35.33
AV	5.15G	45.32	54.00	-8.68	40.00	3	Vertical	200	1.80	-	33.90	6.75	35.33
PK	5.1816G	113.03	Inf	-Inf	107.64	3	Vertical	200	1.80	-	33.90	6.78	35.29
AV	5.1828G	100.90	Inf	-Inf	95.51	3	Vertical	200	1.80	-	33.90	6.78	35.29

802.11ac VHT20_Nss1,(MCS0)_2TX

25/09/2020

5180MHz_TX



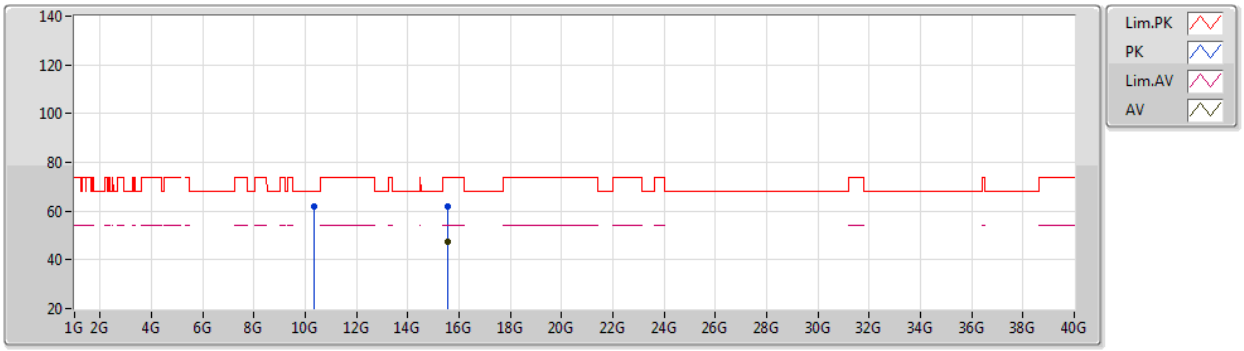
EUT Y_2TX
Setting 19.5
03-C-J-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1402G	60.42	74.00	-13.58	55.12	3	Horizontal	264	1.74	-	33.90	6.74	35.34
AV	5.1474G	45.39	54.00	-8.61	40.07	3	Horizontal	264	1.74	-	33.90	6.75	35.33
PK	5.1816G	114.57	Inf	-Inf	109.18	3	Horizontal	264	1.74	-	33.90	6.78	35.29
AV	5.1824G	102.25	Inf	-Inf	96.86	3	Horizontal	264	1.74	-	33.90	6.78	35.29

802.11ac VHT20_Nss1,(MCS0)_2TX

25/09/2020

5180MHz_TX



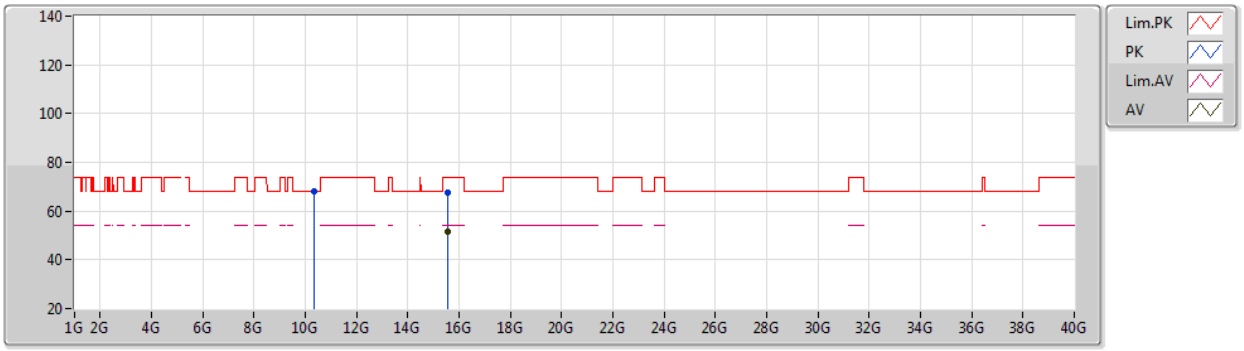
EUT Y_2TX
Setting 19.5
03-C-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.35244G	62.01	68.20	-6.19	49.27	3	Vertical	240	2.32	-	38.05	9.65	34.96
PK	15.53524G	61.93	74.00	-12.07	47.73	3	Vertical	82	2.46	-	38.03	11.19	35.02
AV	15.5358G	47.37	54.00	-6.63	33.17	3	Vertical	82	2.46	-	38.03	11.19	35.02

802.11ac VHT20_Nss1,(MCS0)_2TX

25/09/2020

5180MHz_TX



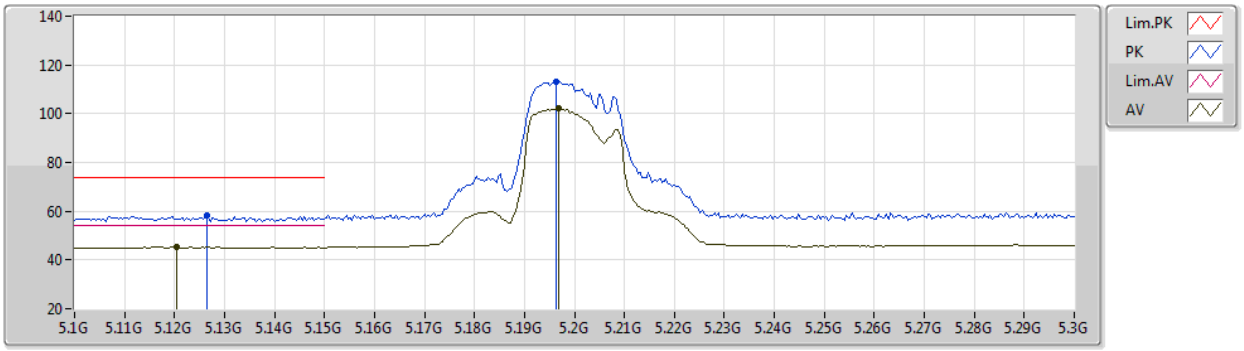
EUT Y_2TX
Setting 19.5
03-C-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.3628G	67.99	68.20	-0.21	55.25	3	Horizontal	54	2.15	-	38.04	9.65	34.95
PK	15.54462G	67.53	74.00	-6.47	53.35	3	Horizontal	53	1.90	-	38.01	11.20	35.03
AV	15.54448G	51.44	54.00	-2.56	37.26	3	Horizontal	53	1.90	-	38.01	11.20	35.03

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/09/2020



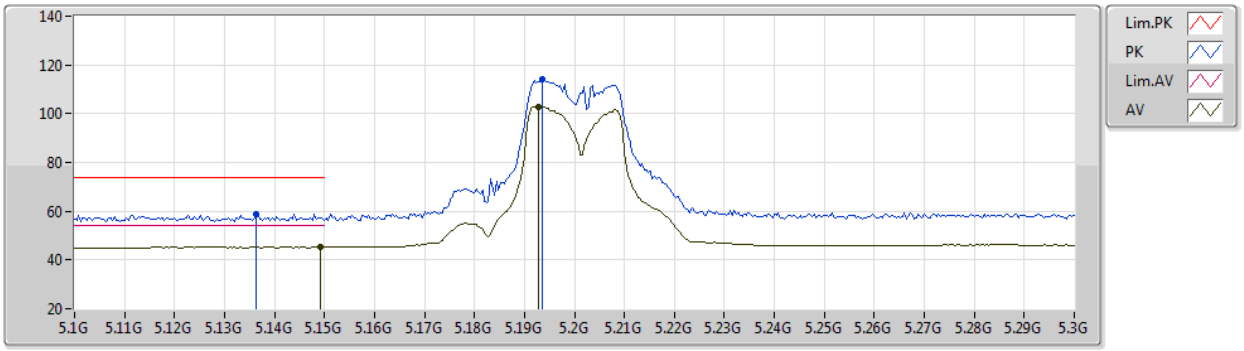
EUT Y_2TX
Setting 20
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1264G	58.15	74.00	-15.85	52.87	3	Vertical	185	1.78	-	33.90	6.73	35.35
AV	5.1204G	45.24	54.00	-8.76	39.98	3	Vertical	185	1.78	-	33.90	6.72	35.36
PK	5.1964G	113.23	Inf	-Inf	107.81	3	Vertical	185	1.78	-	33.90	6.80	35.28
AV	5.1968G	102.00	Inf	-Inf	96.58	3	Vertical	185	1.78	-	33.90	6.80	35.28

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/09/2020



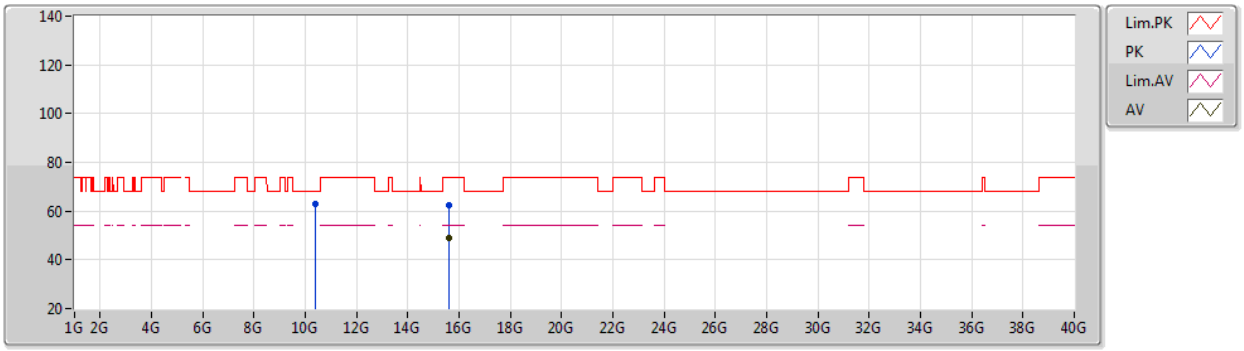
EUT Y_2TX
Setting 20
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1364G	58.76	74.00	-15.24	53.46	3	Horizontal	271	1.79	-	33.90	6.74	35.34
AV	5.1492G	45.34	54.00	-8.66	40.02	3	Horizontal	271	1.79	-	33.90	6.75	35.33
PK	5.1936G	114.10	Inf	-Inf	108.69	3	Horizontal	271	1.79	-	33.90	6.79	35.28
AV	5.1928G	102.83	Inf	-Inf	97.42	3	Horizontal	271	1.79	-	33.90	6.79	35.28

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/09/2020



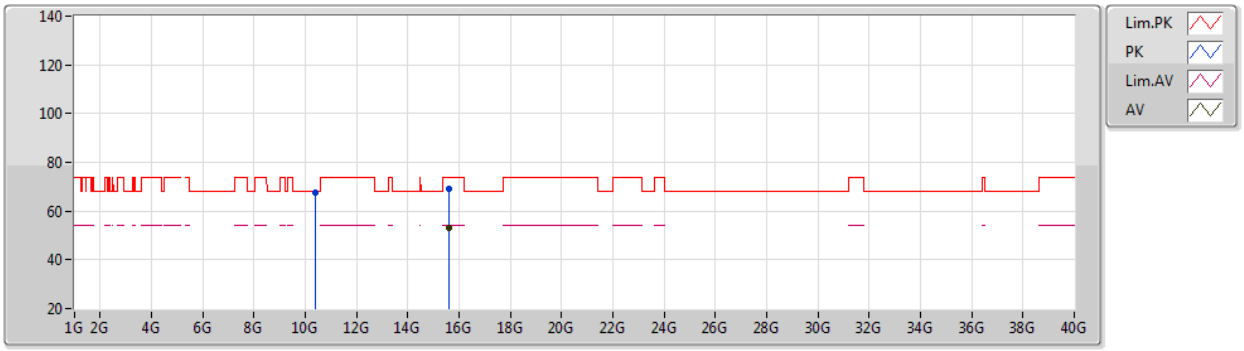
EUT Y_2TX
Setting 20
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4028G	62.98	68.20	-5.22	50.23	3	Vertical	67	1.61	-	38.01	9.66	34.92
PK	15.5952G	62.65	74.00	-11.35	48.58	3	Vertical	145	2.27	-	37.91	11.22	35.06
AV	15.5963G	48.89	54.00	-5.11	34.82	3	Vertical	145	2.27	-	37.91	11.22	35.06

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

26/09/2020



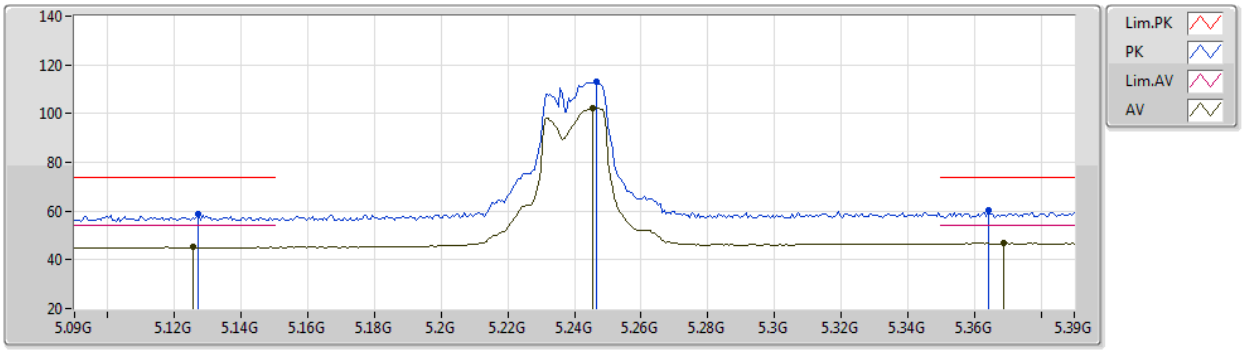
EUT Y_2TX
Setting 20
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4029G	67.69	68.20	-0.51	54.94	3	Horizontal	112	2.14	-	38.01	9.66	34.92
PK	15.5952G	69.23	74.00	-4.77	55.16	3	Horizontal	56	1.87	-	37.91	11.22	35.06
AV	15.5957G	52.96	54.00	-1.04	38.89	3	Horizontal	56	1.87	-	37.91	11.22	35.06

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/09/2020



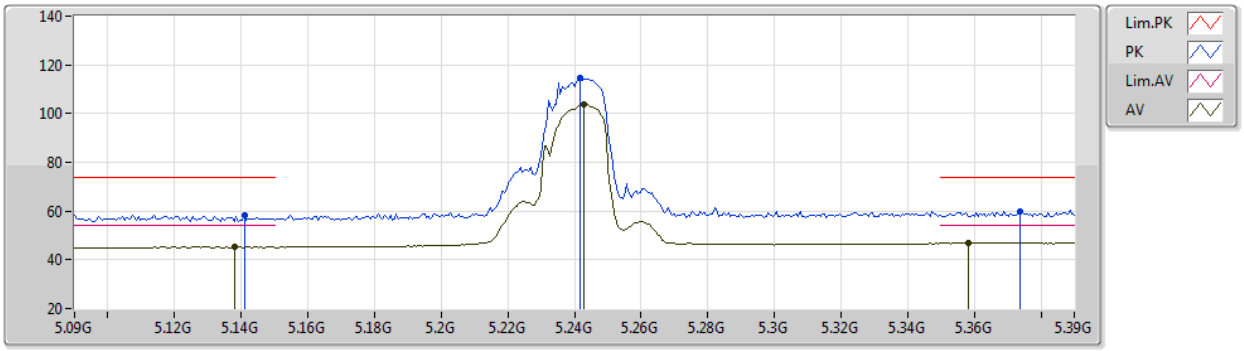
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1272G	58.55	74.00	-15.45	53.27	3	Vertical	183	1.83	-	33.90	6.73	35.35
AV	5.1254G	45.12	54.00	-8.88	39.84	3	Vertical	183	1.83	-	33.90	6.73	35.35
PK	5.2466G	112.91	Inf	-Inf	107.25	3	Vertical	183	1.83	-	33.99	6.89	35.22
AV	5.2454G	102.21	Inf	-Inf	96.55	3	Vertical	183	1.83	-	33.99	6.89	35.22
PK	5.3642G	60.42	74.00	-13.58	54.02	3	Vertical	183	1.83	-	34.37	7.13	35.10
AV	5.369G	46.76	54.00	-7.24	40.35	3	Vertical	183	1.83	-	34.36	7.14	35.09

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/09/2020



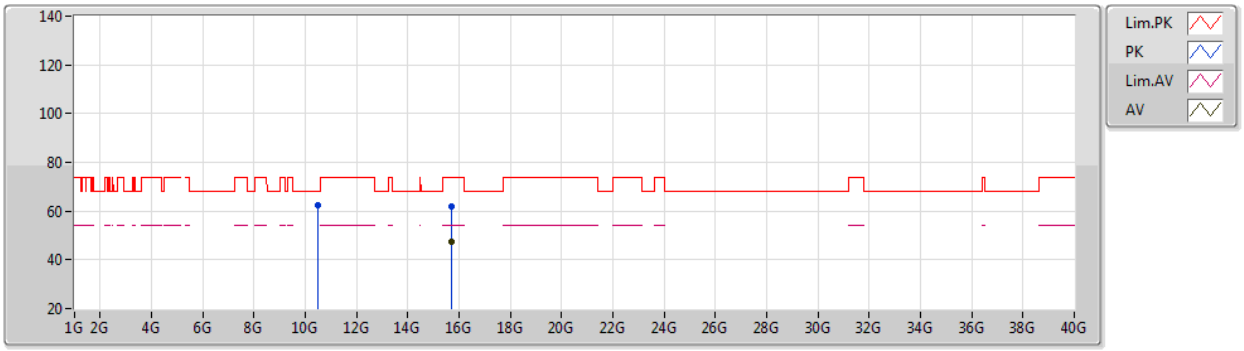
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.141G	58.32	74.00	-15.68	53.02	3	Horizontal	95	1.80	-	33.90	6.74	35.34
AV	5.138G	45.23	54.00	-8.77	39.93	3	Horizontal	95	1.80	-	33.90	6.74	35.34
PK	5.2418G	114.73	Inf	-Inf	109.10	3	Horizontal	95	1.80	-	33.98	6.88	35.23
AV	5.243G	103.92	Inf	-Inf	98.27	3	Horizontal	95	1.80	-	33.99	6.89	35.23
PK	5.3738G	60.05	74.00	-13.95	53.64	3	Horizontal	95	1.80	-	34.35	7.15	35.09
AV	5.3582G	46.89	54.00	-7.11	40.49	3	Horizontal	95	1.80	-	34.38	7.12	35.10

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/09/2020



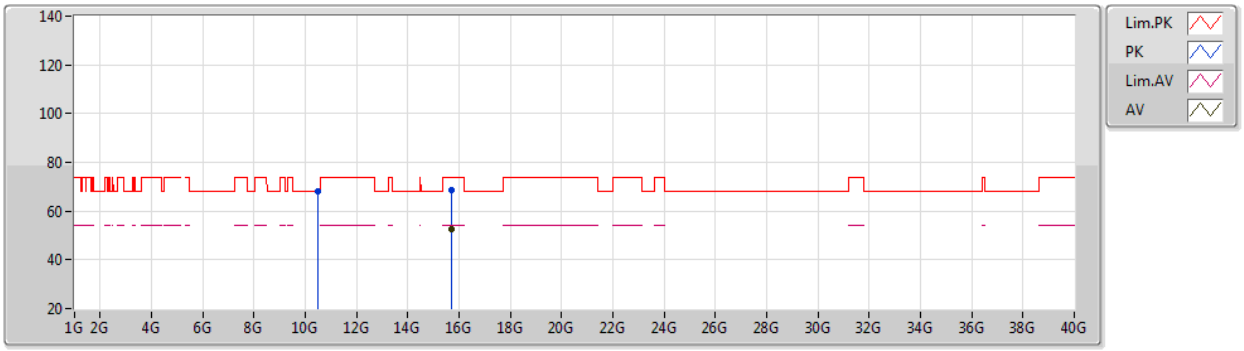
EUT Y_2TX
Setting 19.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4704G	62.37	68.20	-5.83	49.43	3	Vertical	132	2.43	-	38.14	9.67	34.87
PK	15.7146G	61.82	74.00	-12.18	48.05	3	Vertical	83	2.49	-	37.64	11.27	35.14
AV	15.7208G	47.30	54.00	-6.70	33.55	3	Vertical	83	2.49	-	37.62	11.27	35.14

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

26/09/2020



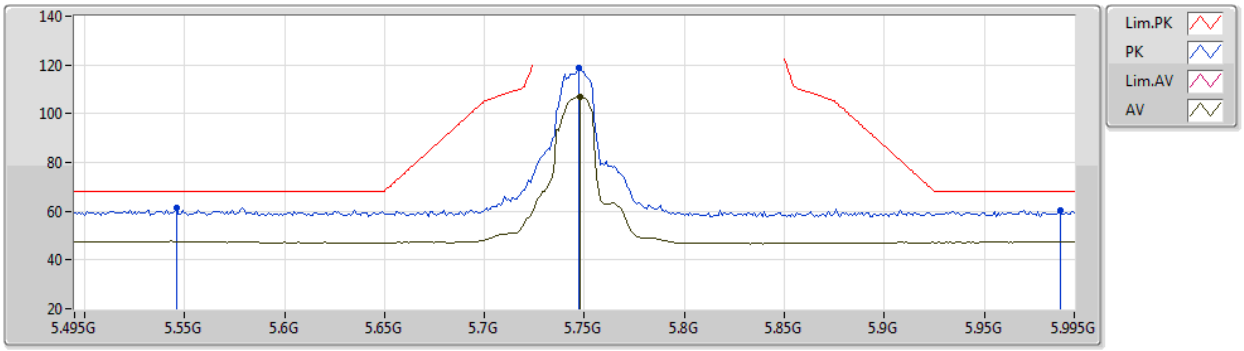
EUT Y_2TX
Setting 19.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4827G	67.89	68.20	-0.31	54.91	3	Horizontal	53	2.11	-	38.17	9.67	34.86
PK	15.7249G	68.68	74.00	-5.32	54.94	3	Horizontal	57	1.87	-	37.60	11.28	35.14
AV	15.7235G	52.81	54.00	-1.19	39.06	3	Horizontal	57	1.87	-	37.61	11.28	35.14

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/09/2020



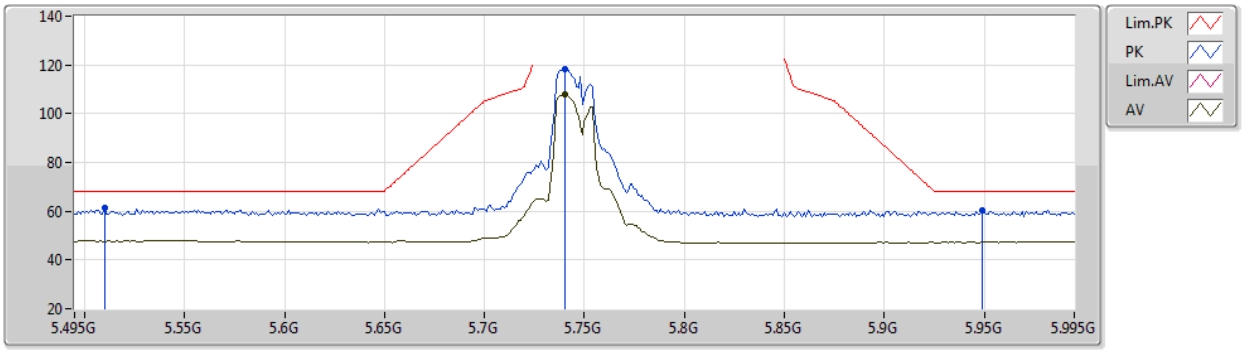
EUT Y_2TX
Setting 22.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.546G	61.19	68.20	-7.01	54.52	3	Vertical	90	1.03	-	34.49	7.13	34.95
PK	5.747G	118.67	Inf	-Inf	112.24	3	Vertical	90	1.03	-	34.20	7.17	34.94
AV	5.748G	107.08	Inf	-Inf	100.65	3	Vertical	90	1.03	-	34.20	7.17	34.94
PK	5.988G	60.33	68.20	-7.87	52.99	3	Vertical	90	1.03	-	34.68	7.58	34.92

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5745MHz_TX



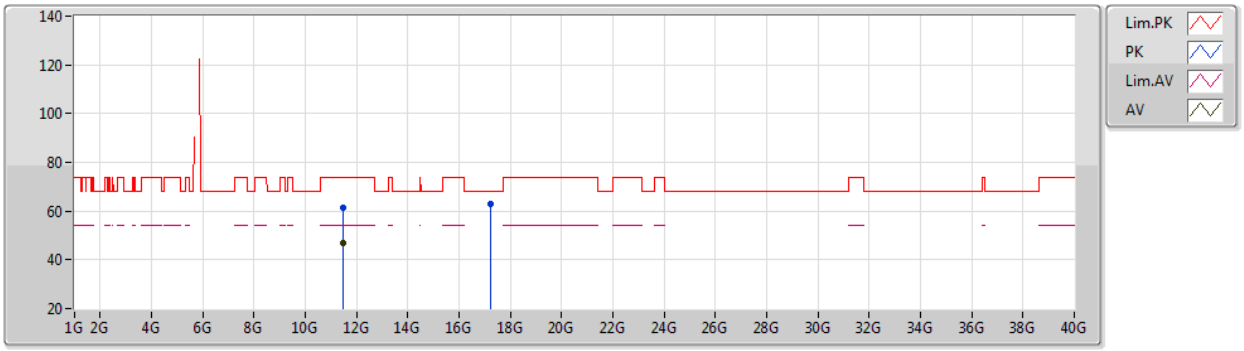
EUT Y_2TX
Setting 22.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.51G	61.27	68.20	-6.93	54.66	3	Horizontal	269	1.78	-	34.42	7.14	34.95
PK	5.74G	118.32	Inf	-Inf	111.89	3	Horizontal	269	1.78	-	34.20	7.17	34.94
AV	5.74G	107.68	Inf	-Inf	101.25	3	Horizontal	269	1.78	-	34.20	7.17	34.94
PK	5.949G	60.50	68.20	-7.70	53.32	3	Horizontal	269	1.78	-	34.60	7.50	34.92

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/09/2020



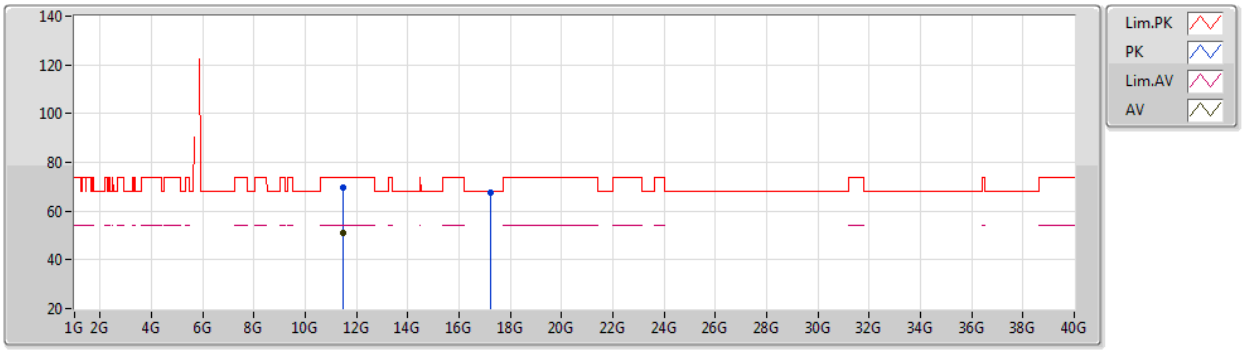
EUT Y_2TX
Setting 22.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4929G	61.25	74.00	-12.75	47.09	3	Vertical	88	1.61	-	38.99	9.82	34.65
AV	11.4938G	46.92	54.00	-7.08	32.76	3	Vertical	88	1.61	-	38.99	9.82	34.65
PK	17.233G	62.88	68.20	-5.32	44.80	3	Vertical	223	1.99	-	40.77	11.89	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

26/09/2020



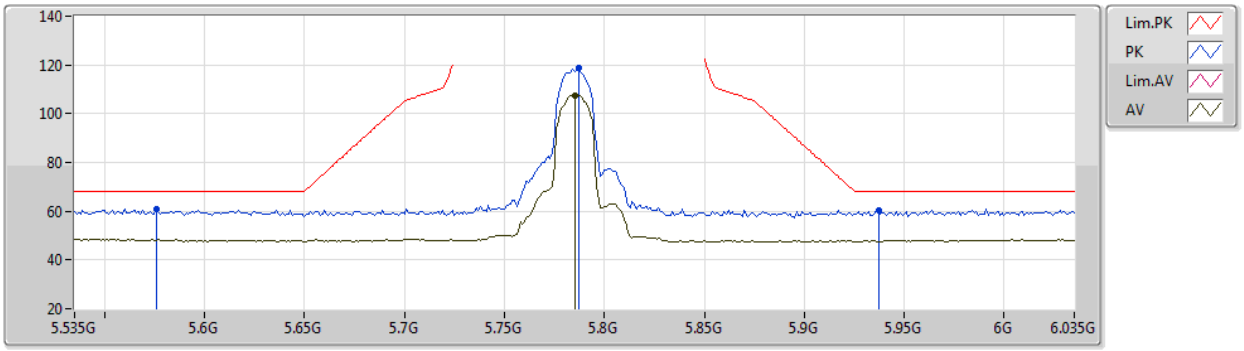
EUT Y_2TX
Setting 22.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.4939G	69.84	74.00	-4.16	55.68	3	Horizontal	55	1.61	-	38.99	9.82	34.65
AV	11.4835G	51.13	54.00	-2.87	36.98	3	Horizontal	55	1.61	-	38.97	9.82	34.64
PK	17.2237G	67.43	68.20	-0.77	49.40	3	Horizontal	121	1.80	-	40.72	11.89	34.58

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5785MHz_TX



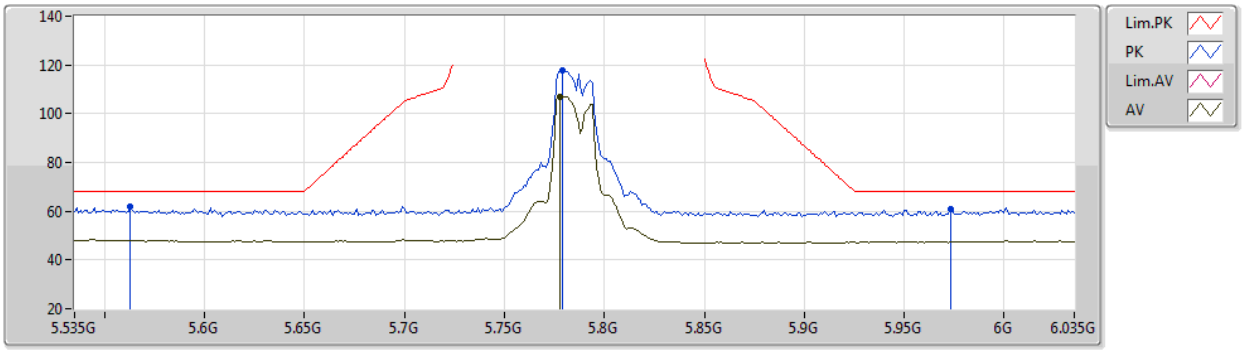
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.576G	61.10	68.20	-7.10	54.54	3	Vertical	87	1.04	-	34.40	7.11	34.95
PK	5.787G	118.75	Inf	-Inf	112.29	3	Vertical	87	1.04	-	34.20	7.19	34.93
AV	5.785G	107.66	Inf	-Inf	101.20	3	Vertical	87	1.04	-	34.20	7.19	34.93
PK	5.937G	60.52	68.20	-7.68	53.42	3	Vertical	87	1.04	-	34.55	7.47	34.92

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5785MHz_TX



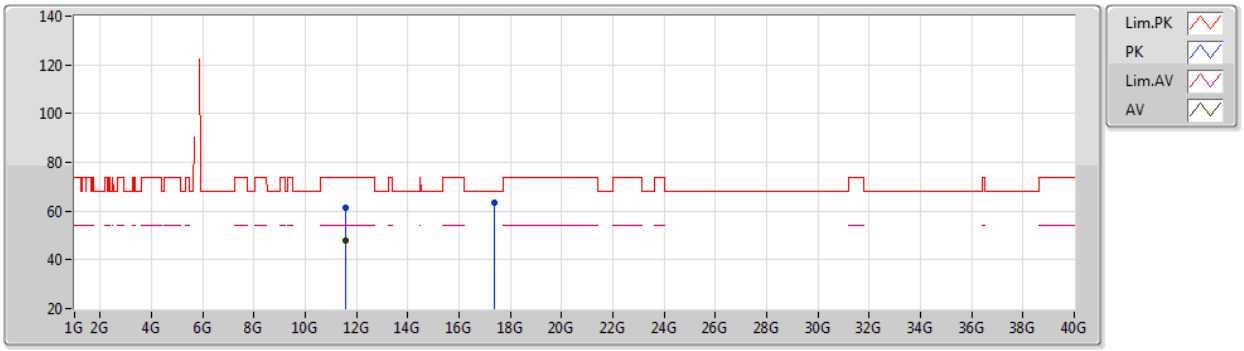
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.563G	62.06	68.20	-6.14	55.44	3	Horizontal	269	1.79	-	34.45	7.12	34.95
PK	5.779G	117.97	Inf	-Inf	111.51	3	Horizontal	269	1.79	-	34.20	7.19	34.93
AV	5.778G	107.10	Inf	-Inf	100.64	3	Horizontal	269	1.79	-	34.20	7.19	34.93
PK	5.973G	60.70	68.20	-7.50	53.42	3	Horizontal	269	1.79	-	34.65	7.55	34.92

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

26/09/2020



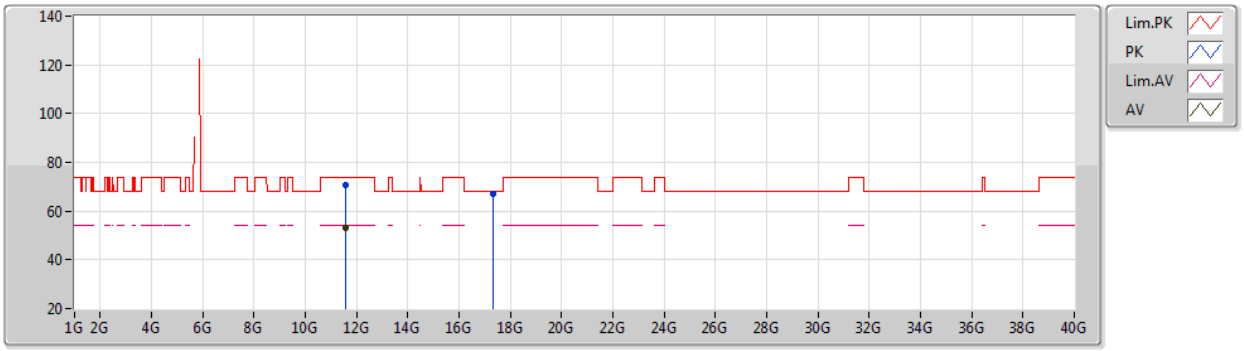
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5643G	61.45	74.00	-12.55	47.10	3	Vertical	54	2.05	-	39.19	9.83	34.67
AV	11.5645G	47.91	54.00	-6.09	33.56	3	Vertical	54	2.05	-	39.19	9.83	34.67
PK	17.366G	63.22	68.20	-4.98	44.33	3	Vertical	355	2.12	-	41.50	11.95	34.56

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

26/09/2020



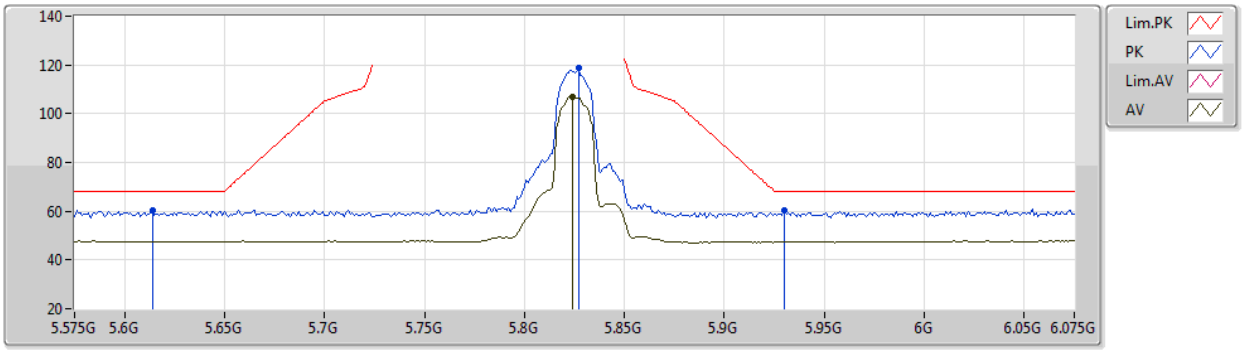
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.574G	70.56	74.00	-3.44	56.17	3	Horizontal	46	2.06	-	39.22	9.84	34.67
AV	11.5737G	53.14	54.00	-0.86	38.75	3	Horizontal	46	2.06	-	39.22	9.84	34.67
PK	17.3522G	67.01	68.20	-1.19	48.22	3	Horizontal	69	1.80	-	41.41	11.94	34.56

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5825MHz_TX



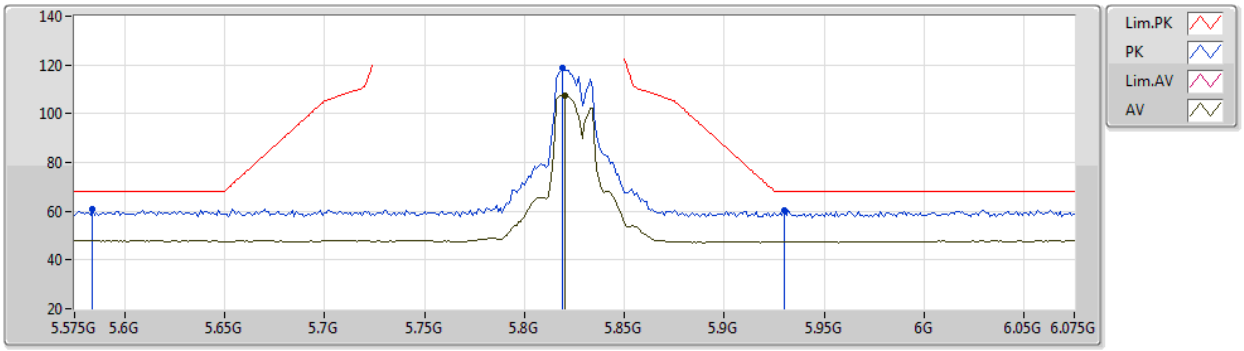
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.614G	60.09	68.20	-8.11	53.59	3	Vertical	85	1.02	-	34.33	7.11	34.94
PK	5.827G	118.54	Inf	-Inf	111.91	3	Vertical	85	1.02	-	34.31	7.25	34.93
AV	5.824G	107.15	Inf	-Inf	100.53	3	Vertical	85	1.02	-	34.30	7.25	34.93
PK	5.93G	60.23	68.20	-7.97	53.17	3	Vertical	85	1.02	-	34.52	7.46	34.92

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5825MHz_TX



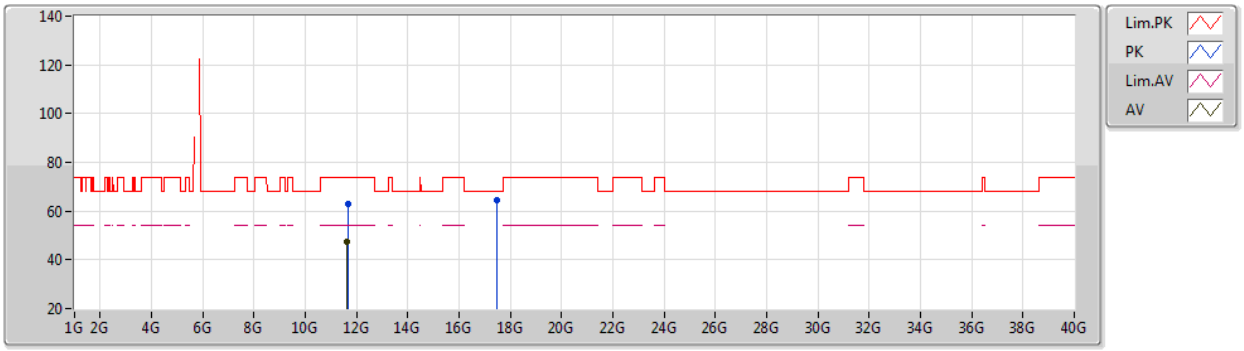
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.584G	60.71	68.20	-7.49	54.18	3	Horizontal	268	1.66	-	34.36	7.11	34.94
PK	5.819G	118.72	Inf	-Inf	112.13	3	Horizontal	268	1.66	-	34.28	7.24	34.93
AV	5.82G	107.66	Inf	-Inf	101.07	3	Horizontal	268	1.66	-	34.28	7.24	34.93
PK	5.93G	60.48	68.20	-7.72	53.42	3	Horizontal	268	1.66	-	34.52	7.46	34.92

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5825MHz_TX



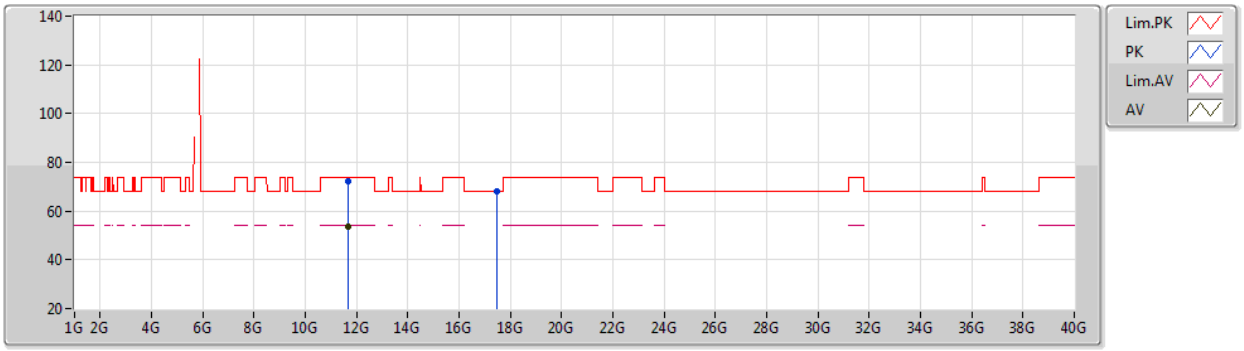
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6484G	62.83	74.00	-11.17	48.32	3	Vertical	53	2.07	-	39.35	9.85	34.69
AV	11.6443G	47.66	54.00	-6.34	33.15	3	Vertical	53	2.07	-	39.34	9.85	34.68
PK	17.4939G	64.38	68.20	-3.82	44.48	3	Vertical	27	2.42	-	42.45	12.00	34.55

802.11ac VHT20_Nss1,(MCS0)_2TX

26/09/2020

5825MHz_TX



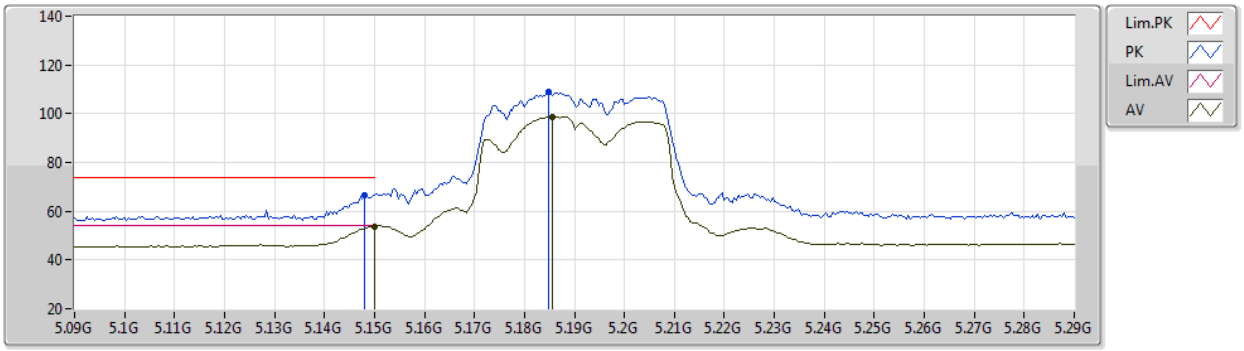
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6482G	72.25	74.00	-1.75	57.74	3	Horizontal	44	2.07	-	39.35	9.85	34.69
AV	11.6539G	53.72	54.00	-0.28	39.21	3	Horizontal	44	2.07	-	39.35	9.85	34.69
PK	17.4768G	67.90	68.20	-0.30	48.15	3	Horizontal	69	1.78	-	42.31	11.99	34.55

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5190MHz_TX



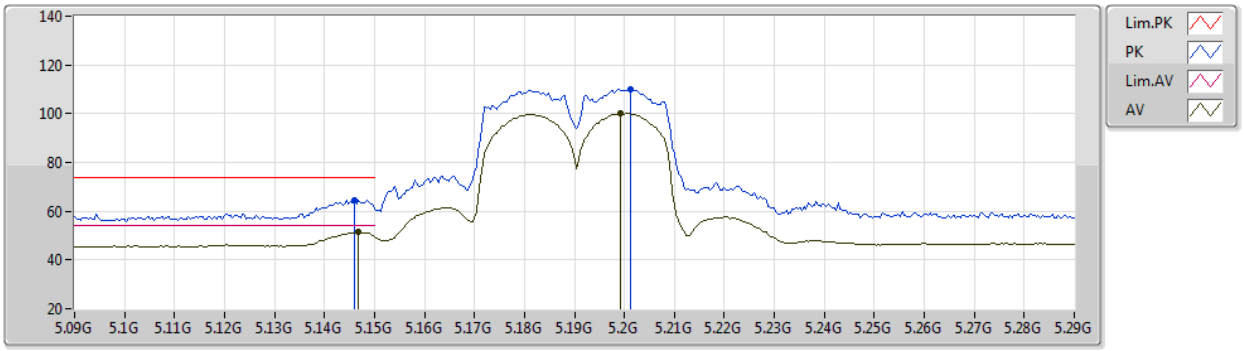
EUT Y_2TX
Setting 17.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.148G	66.60	74.00	-7.40	61.28	3	Vertical	184	1.75	-	33.90	6.75	35.33
AV	5.15G	53.85	54.00	-0.15	48.53	3	Vertical	184	1.75	-	33.90	6.75	35.33
PK	5.1848G	108.83	Inf	-Inf	103.44	3	Vertical	184	1.75	-	33.90	6.78	35.29
AV	5.1856G	98.68	Inf	-Inf	93.28	3	Vertical	184	1.75	-	33.90	6.79	35.29

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5190MHz_TX



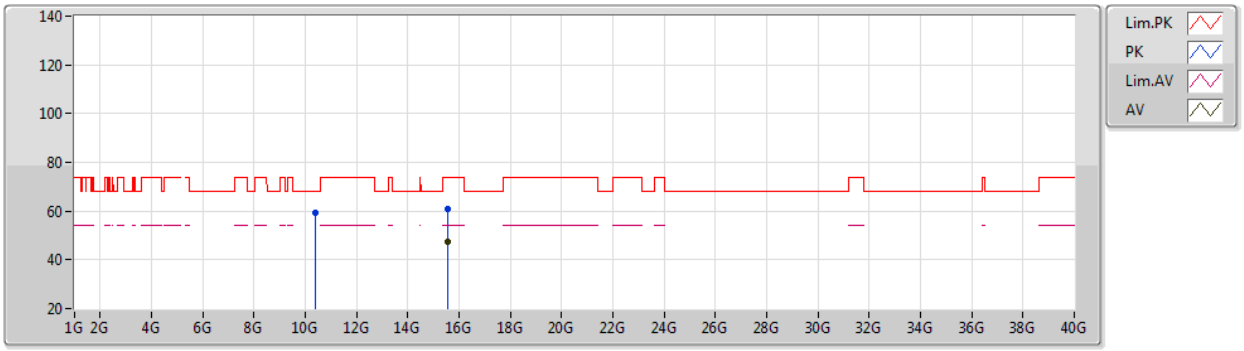
EUT Y_2TX
Setting 17.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.146G	64.61	74.00	-9.39	59.29	3	Horizontal	275	1.79	-	33.90	6.75	35.33
AV	5.1468G	51.55	54.00	-2.45	46.23	3	Horizontal	275	1.79	-	33.90	6.75	35.33
PK	5.2012G	109.93	Inf	-Inf	104.50	3	Horizontal	275	1.79	-	33.90	6.80	35.27
AV	5.1992G	100.15	Inf	-Inf	94.72	3	Horizontal	275	1.79	-	33.90	6.80	35.27

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5190MHz_TX



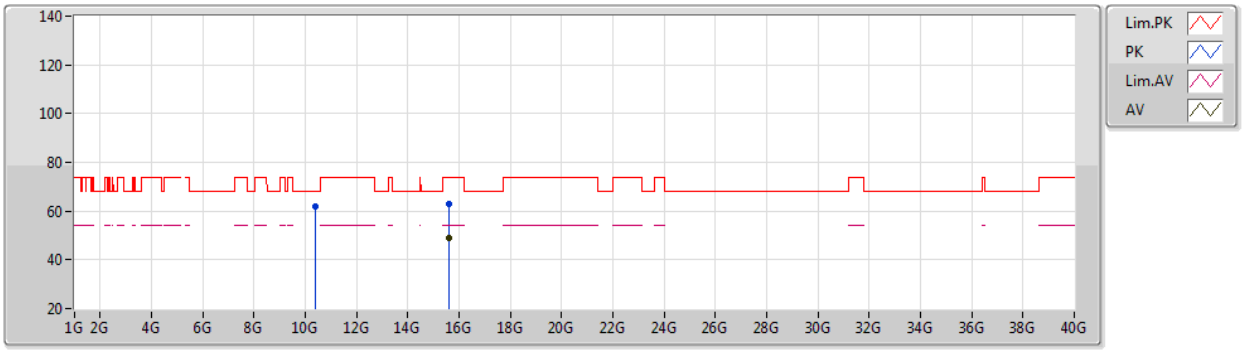
EUT Y_2TX
Setting 17.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.38504G	59.47	68.20	-8.73	46.74	3	Vertical	59	1.62	-	38.01	9.66	34.94
PK	15.5724G	60.87	74.00	-13.13	46.75	3	Vertical	83	2.14	-	37.96	11.21	35.05
AV	15.5755G	47.23	54.00	-6.77	33.12	3	Vertical	83	2.14	-	37.95	11.21	35.05

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5190MHz_TX



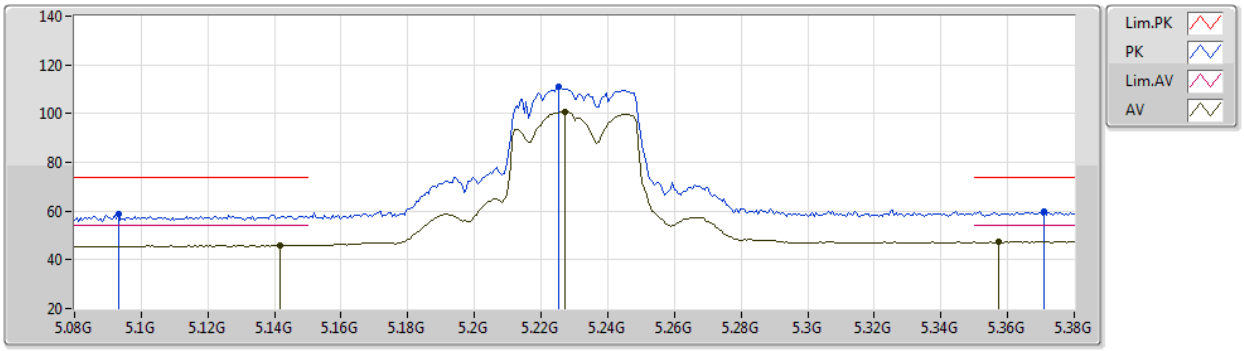
EUT Y_2TX
Setting 17.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.384G	62.11	68.20	-6.09	49.37	3	Horizontal	55	2.11	-	38.02	9.66	34.94
PK	15.5855G	62.69	74.00	-11.31	48.60	3	Horizontal	56	1.89	-	37.93	11.21	35.05
AV	15.5841G	49.09	54.00	-4.91	35.00	3	Horizontal	56	1.89	-	37.93	11.21	35.05

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

26/09/2020



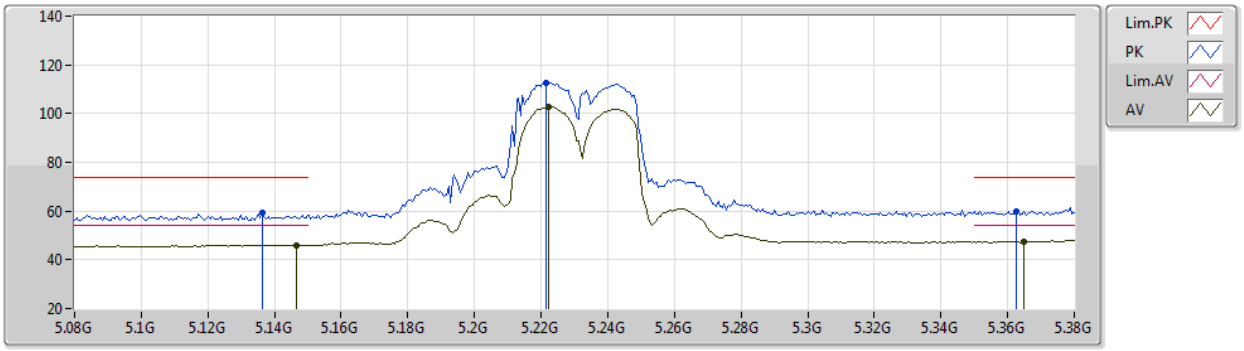
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.0932G	58.75	74.00	-15.25	53.58	3	Vertical	185	1.86	-	33.87	6.69	35.39
AV	5.1418G	46.07	54.00	-7.93	40.77	3	Vertical	185	1.86	-	33.90	6.74	35.34
PK	5.2252G	110.78	Inf	-Inf	105.23	3	Vertical	185	1.86	-	33.95	6.85	35.25
AV	5.227G	100.64	Inf	-Inf	95.08	3	Vertical	185	1.86	-	33.95	6.85	35.24
PK	5.371G	59.81	74.00	-14.19	53.40	3	Vertical	185	1.86	-	34.36	7.14	35.09
AV	5.3572G	47.58	54.00	-6.42	41.18	3	Vertical	185	1.86	-	34.39	7.11	35.10

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5230MHz_TX



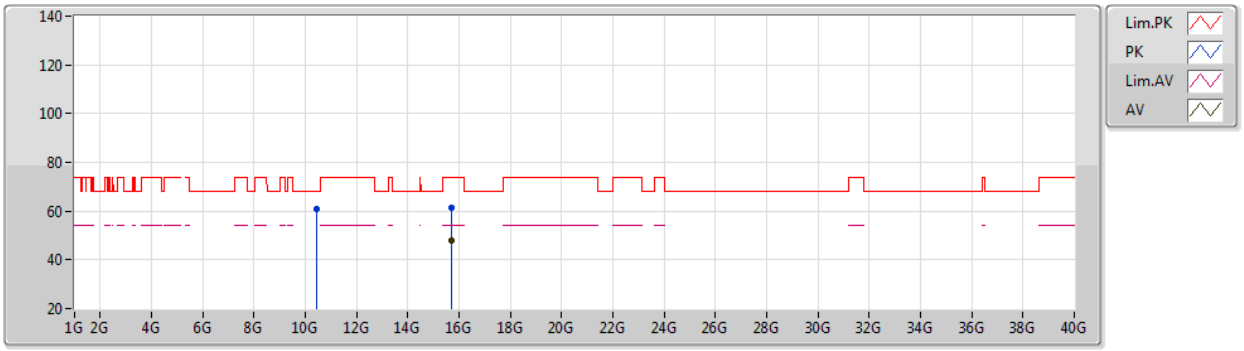
EUT Y_2TX
Setting 19.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1364G	59.08	74.00	-14.92	53.78	3	Horizontal	270	1.80	-	33.90	6.74	35.34
AV	5.1466G	46.10	54.00	-7.90	40.78	3	Horizontal	270	1.80	-	33.90	6.75	35.33
PK	5.2216G	112.51	Inf	-Inf	106.98	3	Horizontal	270	1.80	-	33.94	6.84	35.25
AV	5.2222G	102.91	Inf	-Inf	97.38	3	Horizontal	270	1.80	-	33.94	6.84	35.25
PK	5.3626G	59.99	74.00	-14.01	53.59	3	Horizontal	270	1.80	-	34.37	7.13	35.10
AV	5.365G	47.53	54.00	-6.47	41.13	3	Horizontal	270	1.80	-	34.37	7.13	35.10

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5230MHz_TX



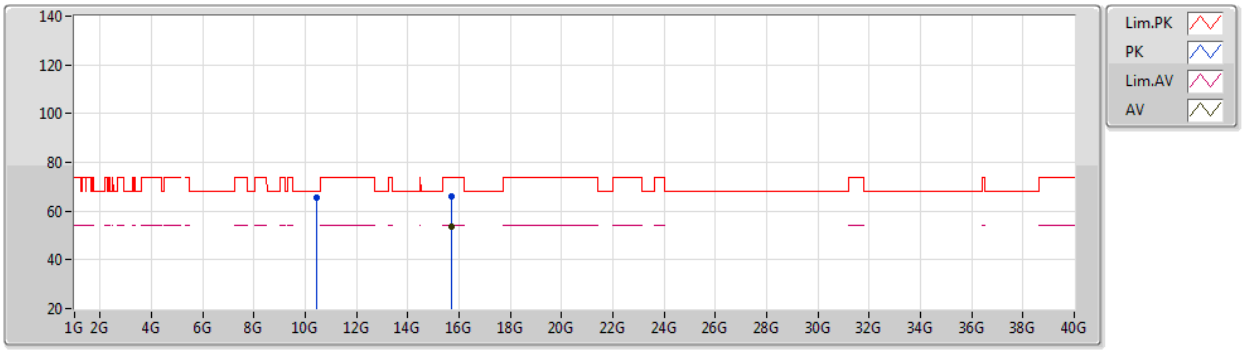
EUT Y_2TX
Setting 19.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.46408G	60.85	68.20	-7.35	47.93	3	Vertical	63	1.62	-	38.13	9.67	34.88
PK	15.69528G	61.57	74.00	-12.43	47.72	3	Vertical	85	2.46	-	37.71	11.26	35.12
AV	15.69492G	47.84	54.00	-6.16	33.99	3	Vertical	85	2.46	-	37.71	11.26	35.12

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5230MHz_TX



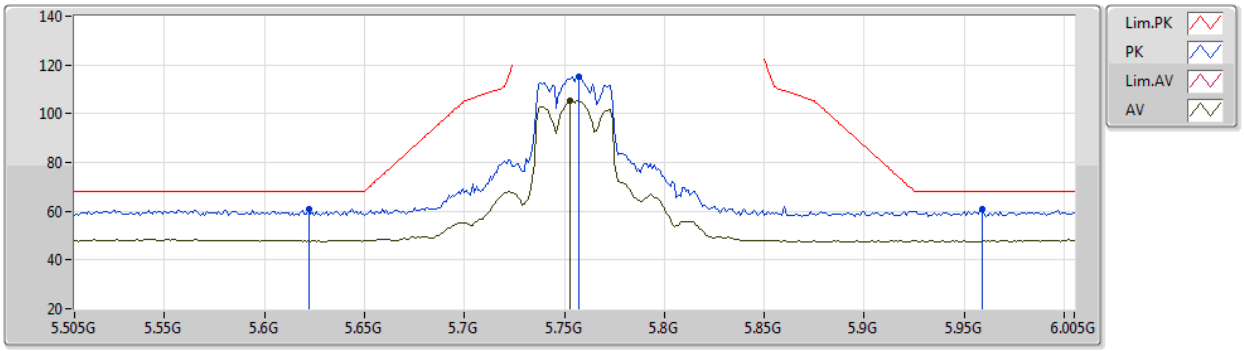
EUT Y_2TX
Setting 19.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.46648G	65.51	68.20	-2.69	52.58	3	Horizontal	56	2.14	-	38.13	9.67	34.87
PK	15.68314G	65.86	74.00	-8.14	51.99	3	Horizontal	54	1.89	-	37.73	11.26	35.12
AV	15.6851G	53.39	54.00	-0.61	39.52	3	Horizontal	54	1.89	-	37.73	11.26	35.12

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5755MHz_TX



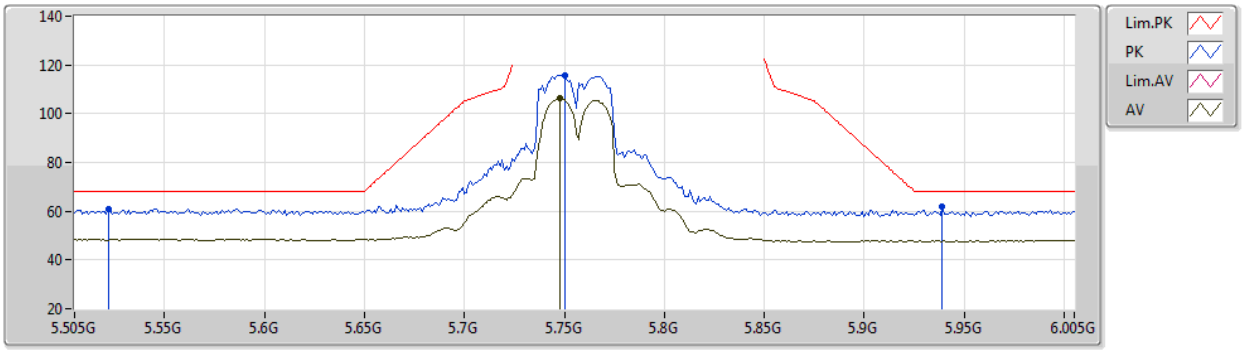
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.622G	60.91	68.20	-7.29	54.40	3	Vertical	87	1.03	-	34.34	7.11	34.94
PK	5.757G	115.24	Inf	-Inf	108.79	3	Vertical	87	1.03	-	34.20	7.18	34.93
AV	5.753G	105.58	Inf	-Inf	99.13	3	Vertical	87	1.03	-	34.20	7.18	34.93
PK	5.959G	60.74	68.20	-7.46	53.52	3	Vertical	87	1.03	-	34.62	7.52	34.92

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5755MHz_TX



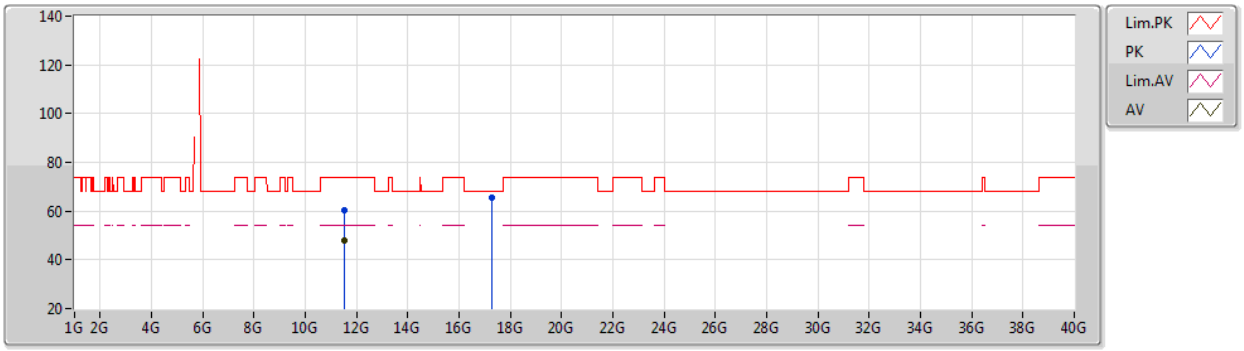
EUT Y_2TX
Setting 22
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.522G	61.12	68.20	-7.08	54.49	3	Horizontal	272	1.68	-	34.44	7.14	34.95
PK	5.75G	115.86	Inf	-Inf	109.43	3	Horizontal	272	1.68	-	34.20	7.17	34.94
AV	5.748G	106.17	Inf	-Inf	99.74	3	Horizontal	272	1.68	-	34.20	7.17	34.94
PK	5.939G	61.91	68.20	-6.29	54.79	3	Horizontal	272	1.68	-	34.56	7.48	34.92

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

26/09/2020



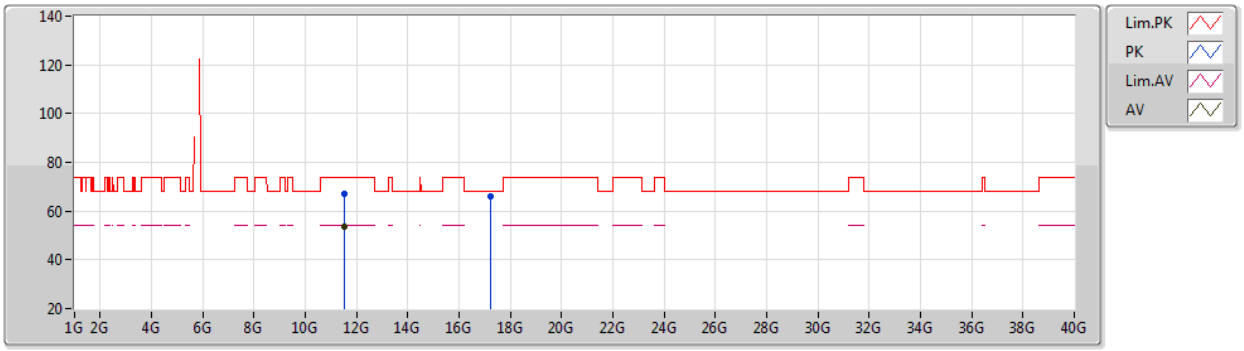
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.52236G	60.47	74.00	-13.53	46.23	3	Vertical	52	2.09	-	39.07	9.83	34.66
AV	11.50268G	47.90	54.00	-6.10	33.71	3	Vertical	52	2.09	-	39.01	9.83	34.65
PK	17.26332G	65.39	68.20	-2.81	47.13	3	Vertical	100	2.18	-	40.92	11.91	34.57

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

26/09/2020



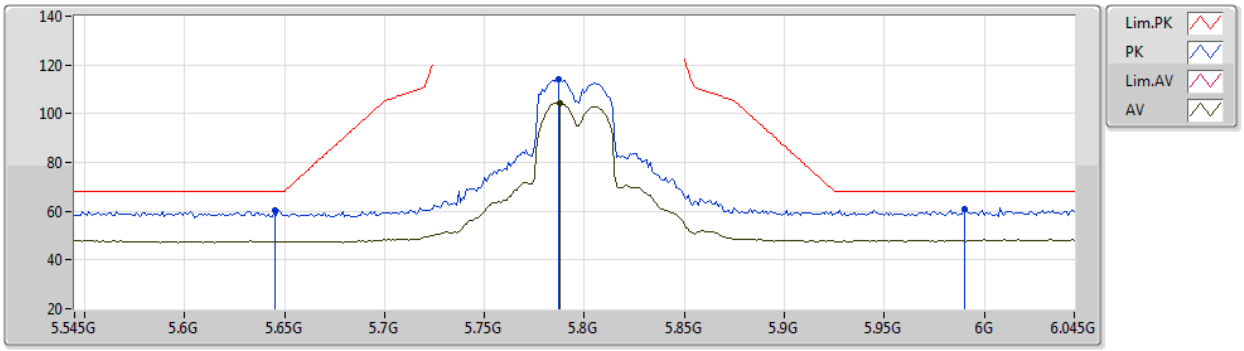
EUT Y_2TX
Setting 22
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.52236G	66.91	74.00	-7.09	52.67	3	Horizontal	47	2.08	-	39.07	9.83	34.66
AV	11.50244G	53.45	54.00	-0.55	39.26	3	Horizontal	47	2.08	-	39.01	9.83	34.65
PK	17.24676G	65.99	68.20	-2.21	47.84	3	Horizontal	103	2.36	-	40.83	11.90	34.58

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5795MHz_TX



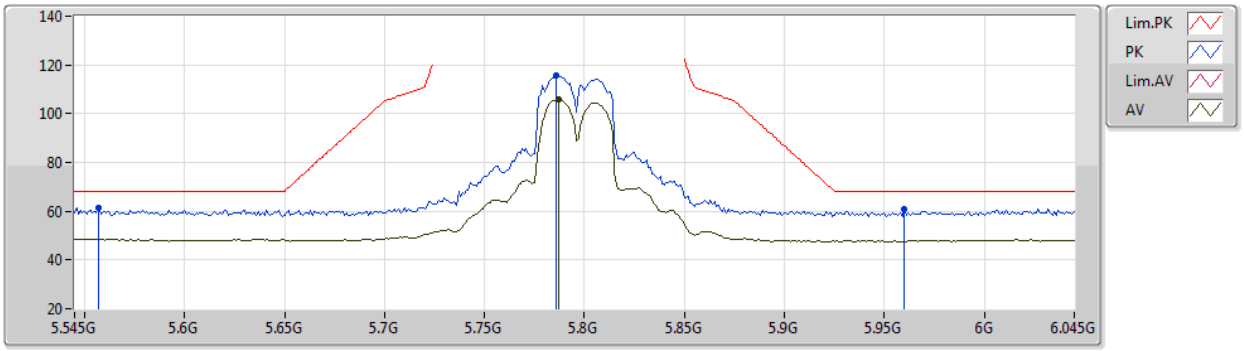
EUT Y_2TX
Setting 21.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.645G	60.22	68.20	-7.98	53.65	3	Vertical	221	1.85	-	34.39	7.12	34.94
PK	5.787G	114.08	Inf	-Inf	107.62	3	Vertical	221	1.85	-	34.20	7.19	34.93
AV	5.788G	104.41	Inf	-Inf	97.95	3	Vertical	221	1.85	-	34.20	7.19	34.93
PK	5.99G	60.63	68.20	-7.57	53.29	3	Vertical	221	1.85	-	34.68	7.58	34.92

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

26/09/2020



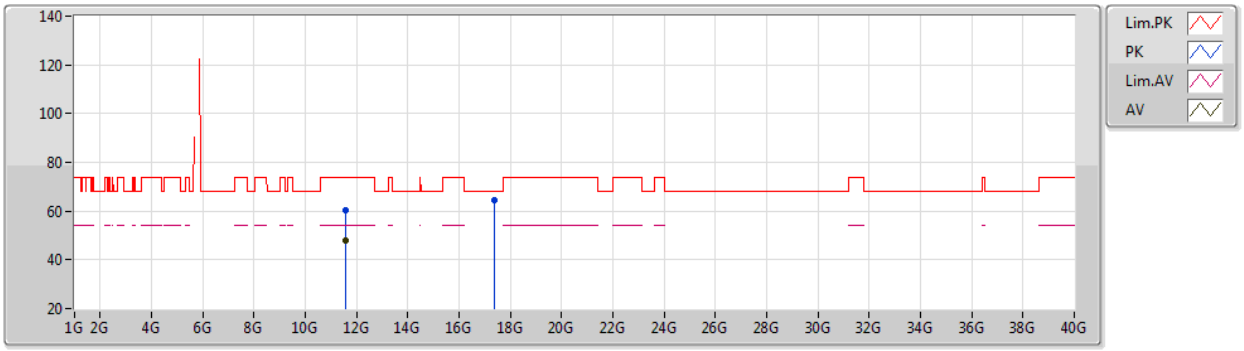
EUT Y_2TX
Setting 21.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.557G	61.27	68.20	-6.93	54.63	3	Horizontal	273	1.64	-	34.47	7.12	34.95
PK	5.786G	115.52	Inf	-Inf	109.06	3	Horizontal	273	1.64	-	34.20	7.19	34.93
AV	5.787G	105.91	Inf	-Inf	99.45	3	Horizontal	273	1.64	-	34.20	7.19	34.93
PK	5.96G	60.67	68.20	-7.53	53.45	3	Horizontal	273	1.64	-	34.62	7.52	34.92

802.11ac VHT40_Nss1,(MCS0)_2TX

26/09/2020

5795MHz_TX



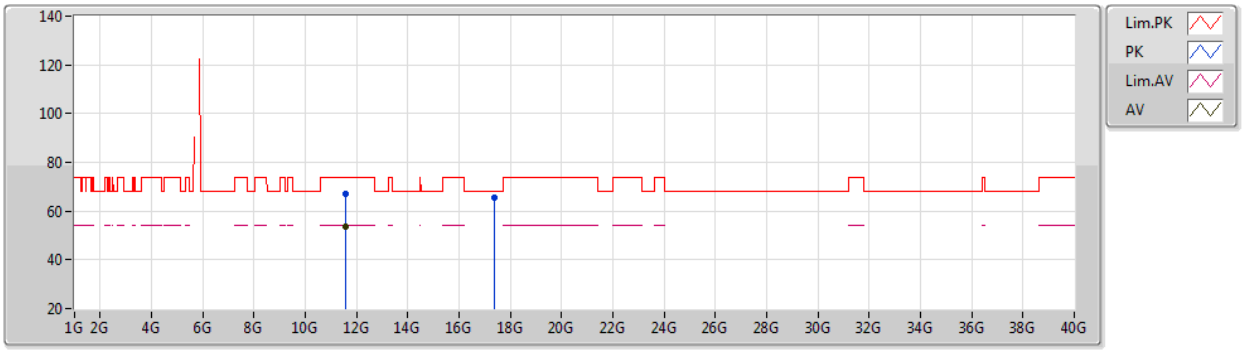
EUT Y_2TX
Setting 21.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.58172G	60.24	74.00	-13.76	45.82	3	Vertical	51	2.06	-	39.25	9.84	34.67
AV	11.58256G	47.88	54.00	-6.12	33.46	3	Vertical	51	2.06	-	39.25	9.84	34.67
PK	17.397G	64.35	68.20	-3.85	45.27	3	Vertical	216	1.01	-	41.68	11.96	34.56

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

26/09/2020



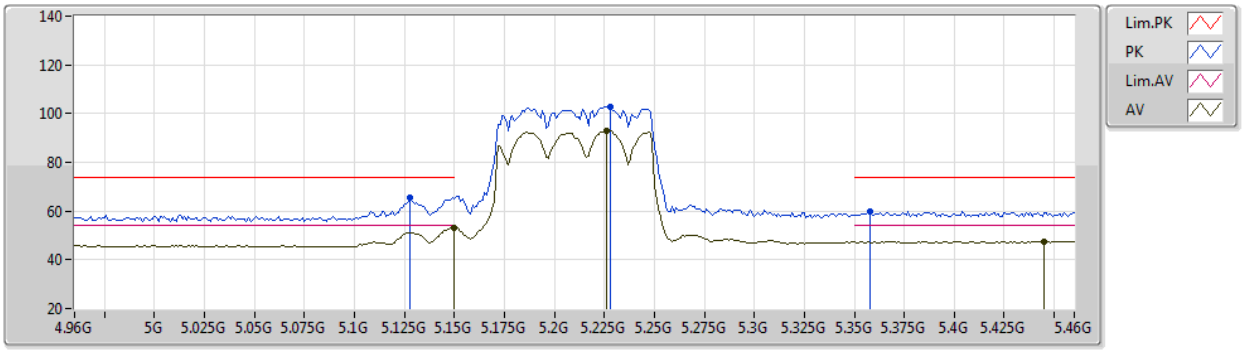
EUT Y_2TX
Setting 21.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5966G	67.28	74.00	-6.72	52.82	3	Horizontal	46	2.06	-	39.29	9.84	34.67
AV	11.5942G	53.61	54.00	-0.39	39.16	3	Horizontal	46	2.06	-	39.28	9.84	34.67
PK	17.38392G	65.30	68.20	-2.90	46.31	3	Horizontal	72	1.80	-	41.60	11.95	34.56

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

26/09/2020



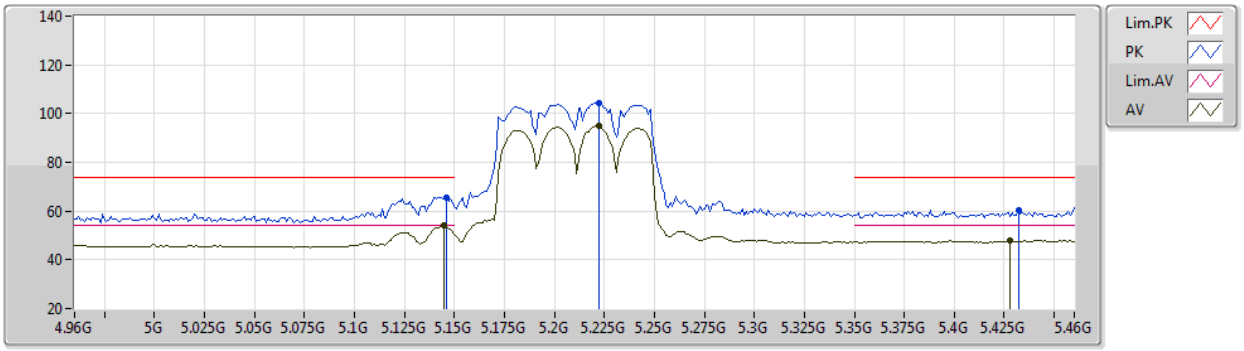
EUT Y_2TX
Setting 15.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.128G	65.66	74.00	-8.34	60.38	3	Vertical	185	1.74	-	33.90	6.73	35.35
AV	5.15G	53.19	54.00	-0.81	47.87	3	Vertical	185	1.74	-	33.90	6.75	35.33
PK	5.228G	102.79	Inf	-Inf	97.21	3	Vertical	185	1.74	-	33.96	6.86	35.24
AV	5.226G	92.92	Inf	-Inf	87.37	3	Vertical	185	1.74	-	33.95	6.85	35.25
PK	5.358G	59.94	74.00	-14.06	53.54	3	Vertical	185	1.74	-	34.38	7.12	35.10
AV	5.445G	47.58	54.00	-6.42	40.84	3	Vertical	185	1.74	-	34.57	7.18	35.01

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

26/09/2020



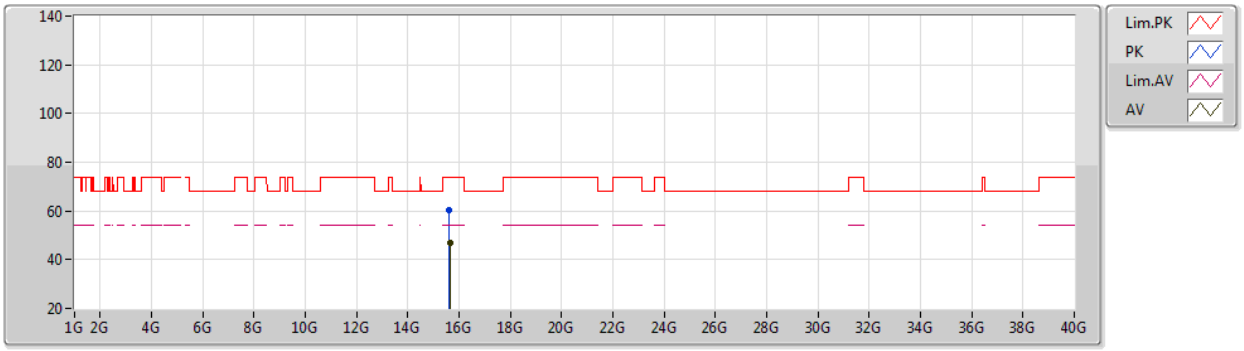
EUT Y_2TX
Setting 15.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.146G	65.69	74.00	-8.31	60.37	3	Horizontal	274	1.80	-	33.90	6.75	35.33
AV	5.145G	53.99	54.00	-0.01	48.67	3	Horizontal	274	1.80	-	33.90	6.75	35.33
PK	5.222G	104.51	Inf	-Inf	98.98	3	Horizontal	274	1.80	-	33.94	6.84	35.25
AV	5.222G	95.05	Inf	-Inf	89.52	3	Horizontal	274	1.80	-	33.94	6.84	35.25
PK	5.432G	60.26	74.00	-13.74	53.61	3	Horizontal	274	1.80	-	34.49	7.18	35.02
AV	5.428G	47.74	54.00	-6.26	41.11	3	Horizontal	274	1.80	-	34.47	7.19	35.03

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

26/09/2020



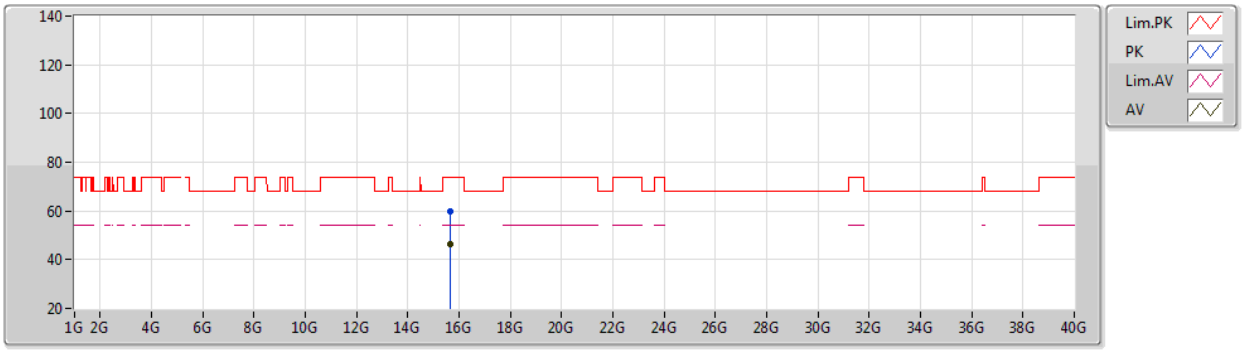
EUT Y_2TX
Setting 15.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.63076G	60.18	74.00	-13.82	46.19	3	Vertical	320	1.97	-	37.84	11.23	35.08
AV	15.63884G	46.78	54.00	-7.22	32.81	3	Vertical	320	1.97	-	37.82	11.24	35.09

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

26/09/2020



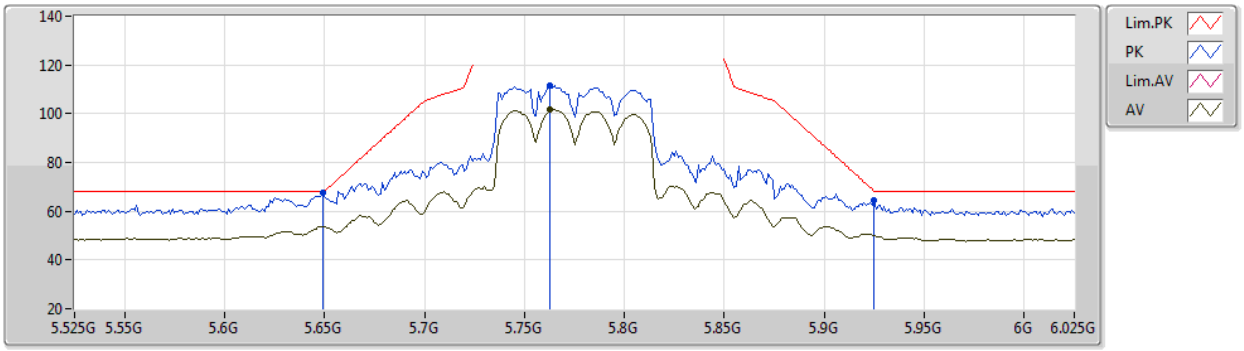
EUT Y_2TX
Setting 15.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.63984G	60.07	74.00	-13.93	46.10	3	Horizontal	90	2.96	-	37.82	11.24	35.09
AV	15.63716G	46.60	54.00	-7.40	32.62	3	Horizontal	90	2.96	-	37.83	11.24	35.09

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

26/09/2020



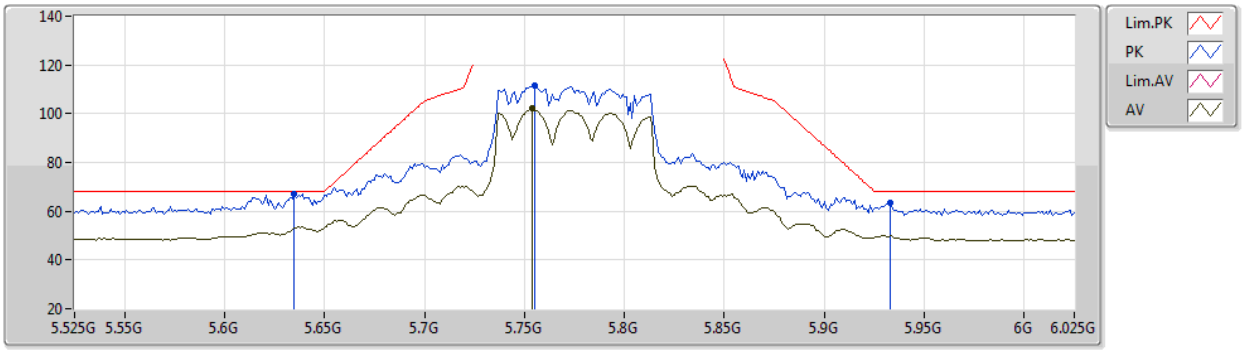
EUT Y_2TX
Setting 21.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.649G	67.69	68.20	-0.51	61.11	3	Vertical	87	1.00	-	34.40	7.12	34.94
PK	5.763G	111.64	Inf	-Inf	105.19	3	Vertical	87	1.00	-	34.20	7.18	34.93
AV	5.763G	101.65	Inf	-Inf	95.20	3	Vertical	87	1.00	-	34.20	7.18	34.93
PK	5.925G	64.58	68.20	-3.62	57.55	3	Vertical	87	1.00	-	34.50	7.45	34.92

802.11ac VHT80_Nss1,(MCS0)_2TX

26/09/2020

5775MHz_TX



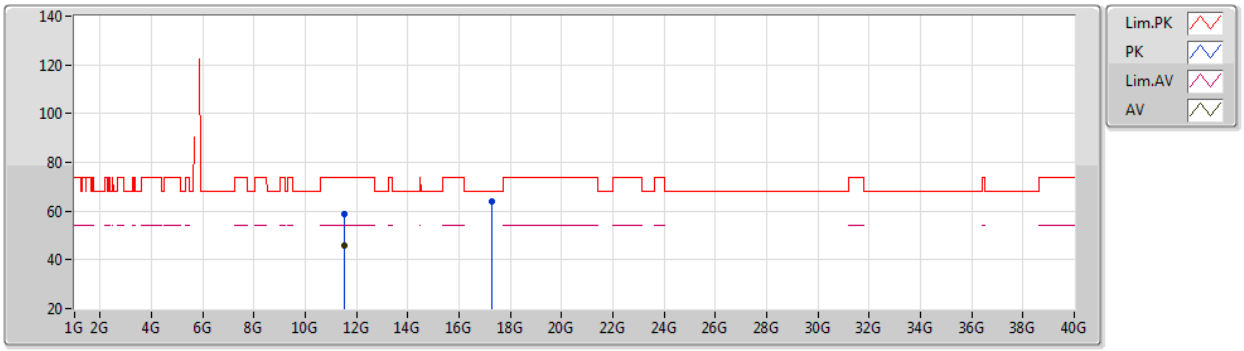
EUT Y_2TX
Setting 21.5
03-C-K-3-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.635G	67.30	68.20	-0.90	60.75	3	Horizontal	281	1.80	-	34.37	7.12	34.94
PK	5.755G	111.50	Inf	-Inf	105.05	3	Horizontal	281	1.80	-	34.20	7.18	34.93
AV	5.754G	102.04	Inf	-Inf	95.59	3	Horizontal	281	1.80	-	34.20	7.18	34.93
PK	5.933G	63.19	68.20	-5.01	56.11	3	Horizontal	281	1.80	-	34.53	7.47	34.92

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

26/09/2020



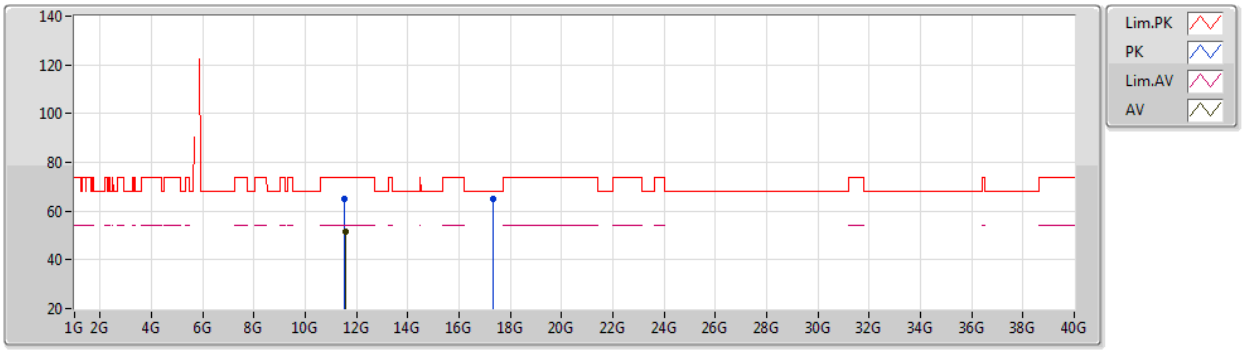
EUT Y_2TX
Setting 21.5
03-C-K-3

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.53452G	59.05	74.00	-14.95	44.78	3	Vertical	46	2.05	-	39.10	9.83	34.66
AV	11.54268G	45.73	54.00	-8.27	31.43	3	Vertical	46	2.05	-	39.13	9.83	34.66
PK	17.29836G	63.96	68.20	-4.24	45.52	3	Vertical	143	1.05	-	41.09	11.92	34.57

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

26/09/2020



EUT Y_2TX
Setting 21.5
03-C-K-3

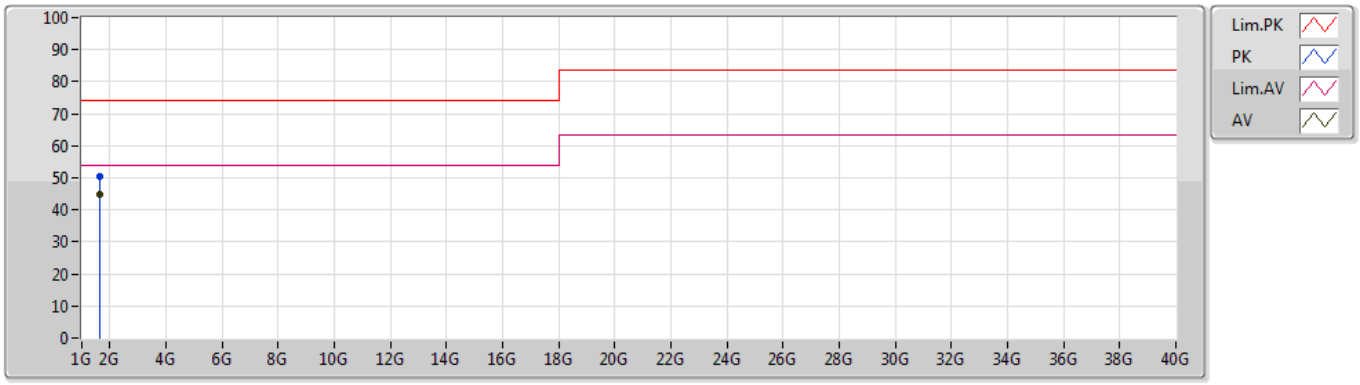
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.52996G	64.82	74.00	-9.18	50.56	3	Horizontal	47	2.07	-	39.09	9.83	34.66
AV	11.55048G	51.60	54.00	-2.40	37.28	3	Horizontal	47	2.07	-	39.15	9.83	34.66
PK	17.30724G	64.93	68.20	-3.27	46.44	3	Horizontal	123	1.55	-	41.14	11.92	34.57

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.62465G	44.75	54.00	-9.25	Vertical

Mode 1

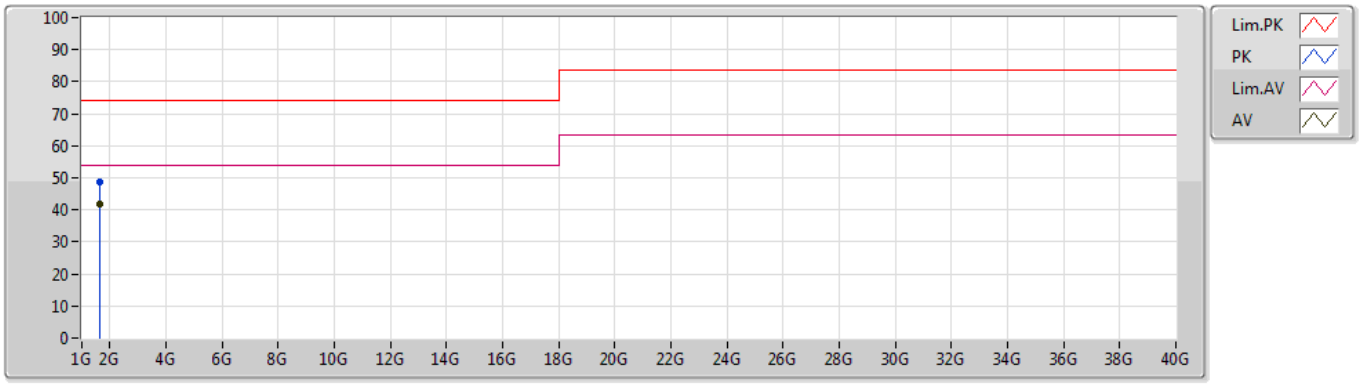
10/12/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.62491G	50.60	74.00	-23.40	-5.25	3	Vertical	74	1.21	-	55.85	25.60	3.72	34.57
AV	1.62465G	44.75	54.00	-9.25	-5.25	3	Vertical	74	1.21	"Worst"	50.00	25.60	3.72	34.57

Mode 1

10/12/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	1.62467G	48.77	74.00	-25.23	-5.25	3	Horizontal	230	1.18	-	54.02	25.60	3.72	34.57
AV	1.6247G	42.02	54.00	-11.98	-5.25	3	Horizontal	230	1.18	"Worst"	47.27	25.60	3.72	34.57