FCC RADIO TEST REPORT

FCC ID	:	VGYAP903
Equipment	:	Dual Band Security Firewall
Brand Name	:	DrayTek Corp.
Model Name	:	VigorAP 903, Vigor2122ac
Applicant	:	DrayTek Corp. No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial Park,Hsin-Chu,Taiwan 303 R.O.C
Manufacturer	:	DrayTek Corp. No.26 Fu Shing Rd., HuKou County,Hsin-Chu Industrial Park,Hsin-Chu,Taiwan 303 R.O.C
Standard	:	47 CFR FCC Part 15.407

The product was received on Jan. 12, 2018, and testing was started from Jan. 12, 2018 and completed on Apr. 30, 2018. We, SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Sam Chen

SPORTON INTERTIONAL 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
FR7D2222AB	01	Initial issue of report	Jun. 22, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	Note
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	-
Note: For PoE Mode, the EUT was powered by PoE, and the PoE was for measurement only, would not be marketed. it's not necessary to apply to AC Power Port Conducted Emission.				

Reviewed by: Sam Chen

Report Producer: Sandy Chuang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

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

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

1.1.2 Antenna Information

Ant.	Port	Brand	Part Number	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	MAG. LAYERS	EDA-1313-25GR2-A10-E	Dipole Antenna	Reversed-SMA	1.81	3.88
2	2	MAG. LAYERS	EDA-1313-25GR2-A10-E	Dipole Antenna	Reversed-SMA	1.81	3.88

Note: The EUT has two antennas.

<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	0.811	0.91	1.4m	1k
802.11ac VHT20	0.797	0.985	1.32m	1k
802.11ac VHT20-BF	0.995	0.022	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.667	1.759	660u	3k
802.11ac VHT40-BF	0.988	0.052	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80	0.507	2.95	327.5u	10k
802.11ac VHT80-BF	0.995	0.022	n/a (DC>=0.98)	n/a (DC>=0.98)

1.1.4 EUT Operational Condition

EUT Power Type	For EUT 1: From power adapter or PoE For EUT 2: From power adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	Note: The product has beamforming function for 802.11n/ac in 5GHz			
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	**<For Non-Beamforming Mode>** QATool_Dbg.exe Version 0.0.1.71 **<For Beamforming Mode>** telnet			

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v02r01
- FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Gino Huang / Paul Chen	22°C / 54%	Jan. 15, 2018~ Apr. 25, 2018
Radiated	03CH01-CB	Lance Wu / Cola Fan	22°C / 54%	Jan. 12, 2018~ Apr. 30, 2018
AC Conduction	CO01-CB	Wei Li / GN Hou	22°C / 59%	Mar. 30, 2018

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

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	0D
5200MHz	19
5240MHz	17
5745MHz	0C
5785MHz	0B
5825MHz	0C
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	0F
5200MHz	19
5240MHz	18
5745MHz	18
5785MHz	14
5825MHz	10
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	0A
5230MHz	15
5755MHz	17
5795MHz	14
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	08
5775MHz	12
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-
5180MHz	15
5200MHz	23
5240MHz	22
5745MHz	21
5785MHz	21
5825MHz	17
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-
5190MHz	9
5230MHz	14
5755MHz	22
5795MHz	19
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-
5210MHz	8

Mode	PowerSetting
5775MHz	20

Note:
- VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for 802.11n/ac. All test results were recorded in the report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT 1 + Adapter

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Unwanted Emissions
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Adapter

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1: WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA7D2222 for Co-location RF Exposure Evaluation.	

Note 1: The EUT can only be used at Y axis position

Note 2: The PoE below is for measurement only, would not be marketed.

The PoE information as below:

Support Unit	Brand	Model Number
PoE	CRIO	POE-G30

2.3 EUT Operation during Test

For CTX Mode:

<For Non-Beamforming Mode>

The EUT was programmed to be in continuously transmitting mode.

<For Beamforming Mode>

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

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

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

No.	Equipment Name	Brand Name	Model Name	Rating	Remark
1	Adapter	DVE	DSA-18PFR-12 FUS 120150	Input: 100-240V~50/60Hz, 0.6A Output: +12V, 1.5A	For EUT 1 and EUT 2 use

2.5 Table for Multiple Listing

The EUT has two model names which are identical to each other in all aspects except for the following table:

Model Name	WIFI	Ethernet Port	USB Port	PoE Function	Adapter DC Voltage	EUT
VigorAP 903	V	5	V	V	+12V, 1.5A	EUT 1
Vigor2122ac	V	5	V	X	+12V, 1.5A	EUT 2

Note 1: From the above models, model: VigorAP 903 (EUT 1) were selected as representative model for the test and its data was recorded in this report.

Note 2: V : With X :Without

2.6 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*4	DELL	E6430	DoC
2	Flash disk3.0	Transcend	JetFlash-700	DoC

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

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*2	DELL	E4300	DoC
2	NB*2	Apple	Mac Book	DoC
3	Flash disk	Silicon Power	I-Series	DoC

<For Non-Beamforming Mode>
For Test Site No: 03CH01-CB (above 1GHz)

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

<For Beamforming Mode>
For Test Site No: 03CH01-CB (above 1GHz)

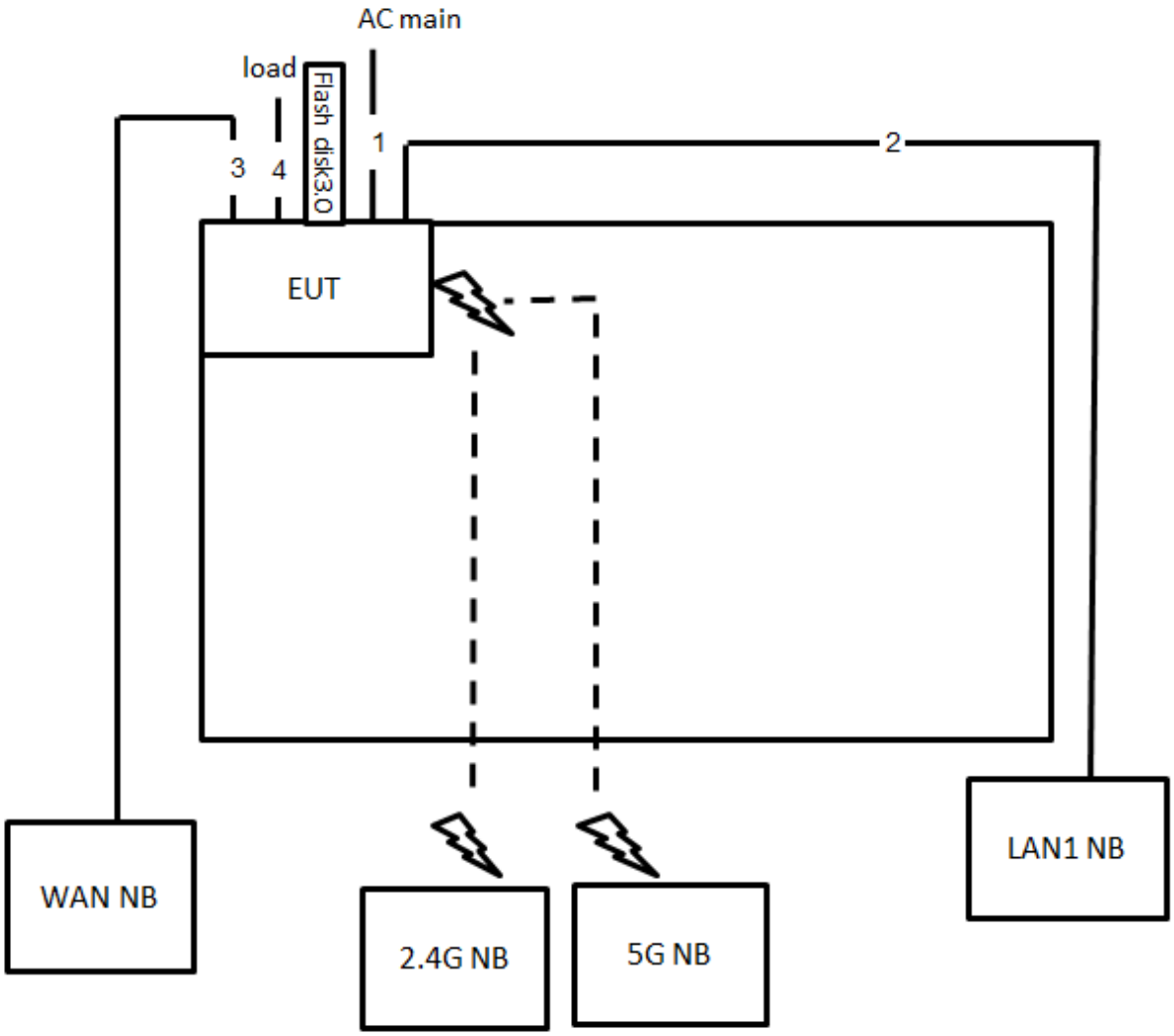
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*2	DELL	E4300	DoC
2	RX Device	DrayTek	VigorAP 903	VGYAP903

For Test Site No: TH01-CB

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

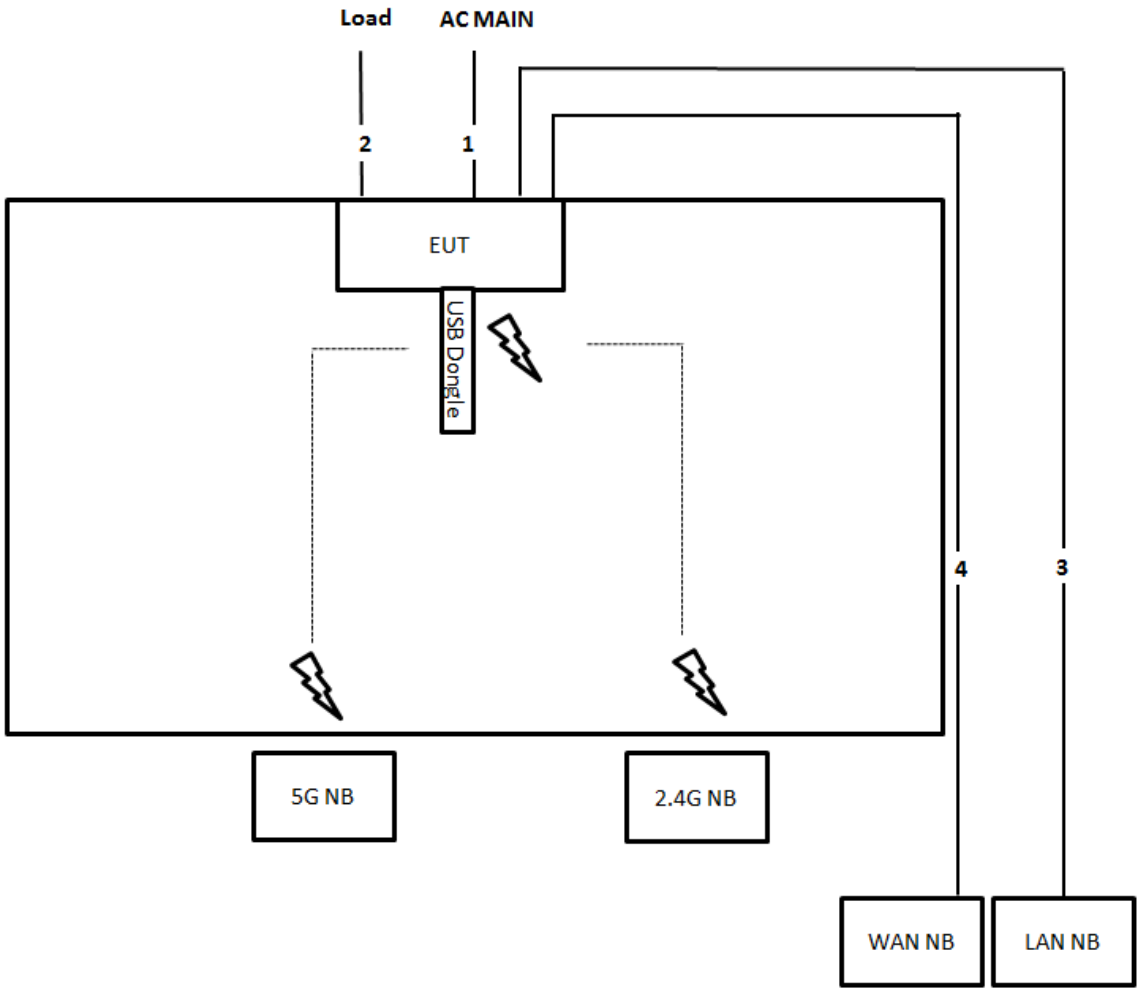
2.7 Test Setup Diagram

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
4	RJ-45 cable*3	No	1.5m

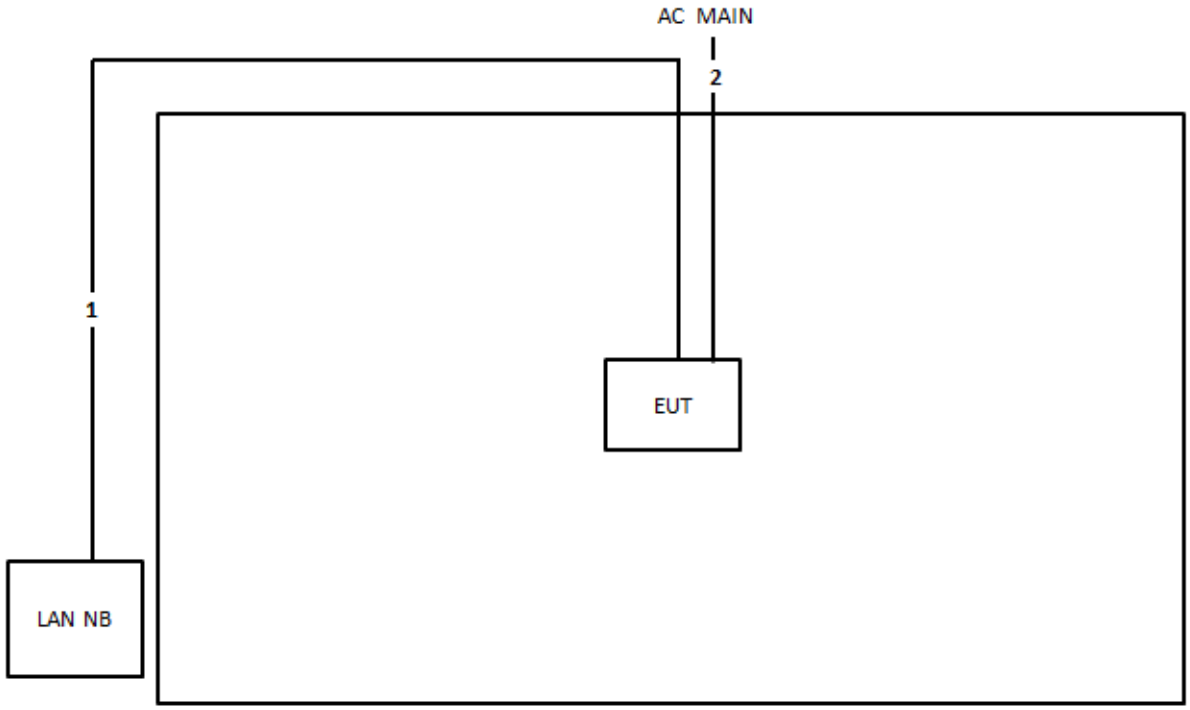
Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz

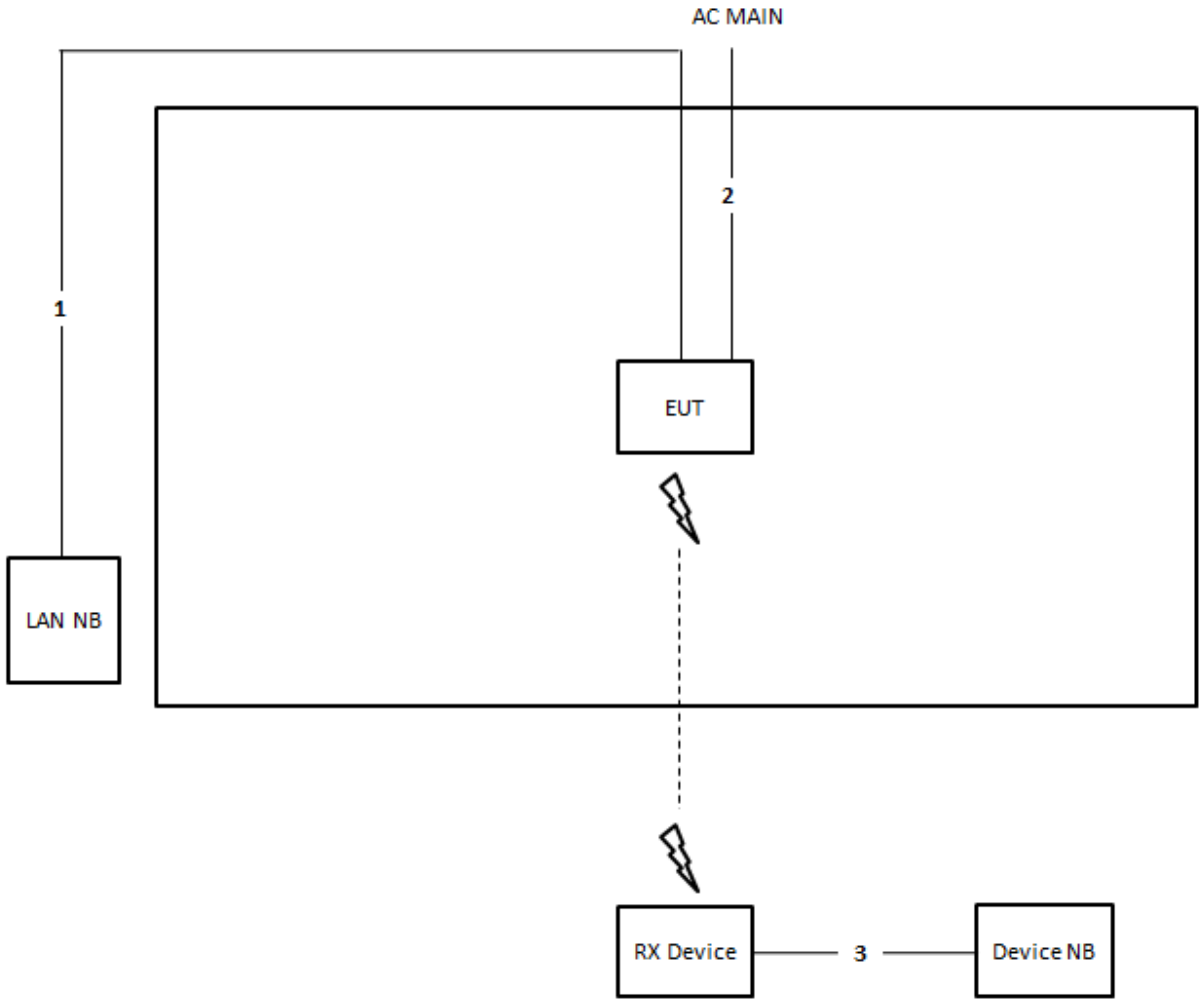
<For Non-Beamforming Mode>



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

Test Setup Diagram - Radiated Test > 1GHz

<For Beamforming Mode>



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

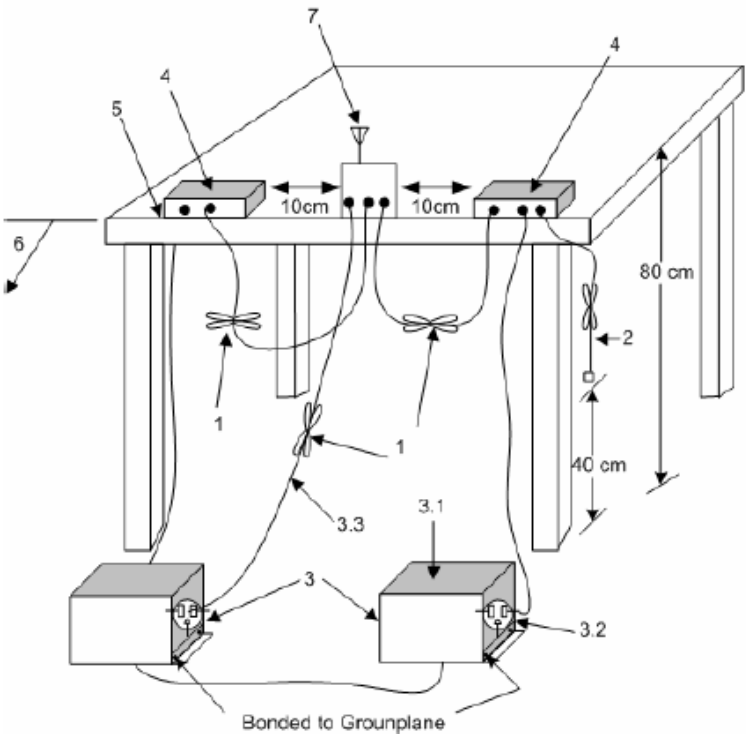
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

3.2.2 Measuring Instruments

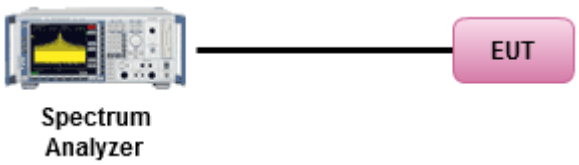
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

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

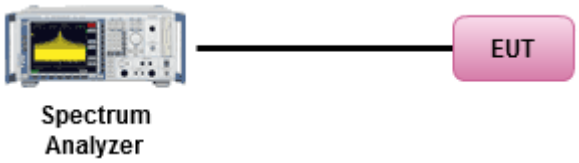
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☐ Refer as FCC KDB 789033, 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 Radiated Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

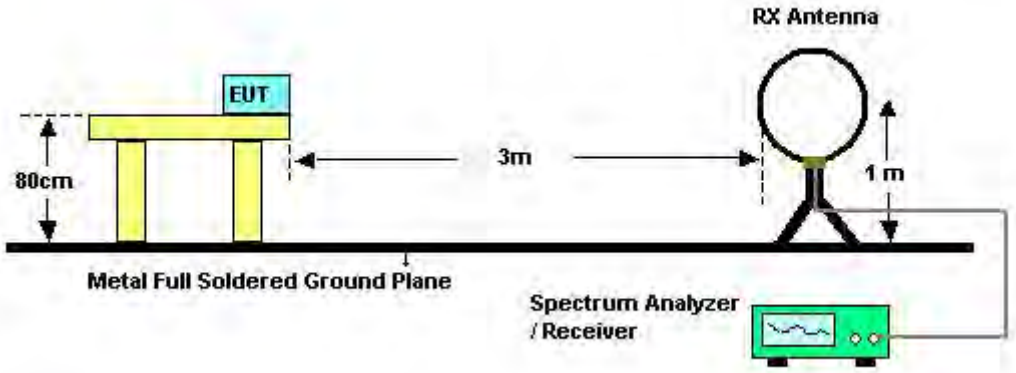
Test Method		
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
		☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
		☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
▪ For radiated measurement.		

Test Method	
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
▪ The any unwanted emissions level shall not exceed the fundamental emission level.	
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

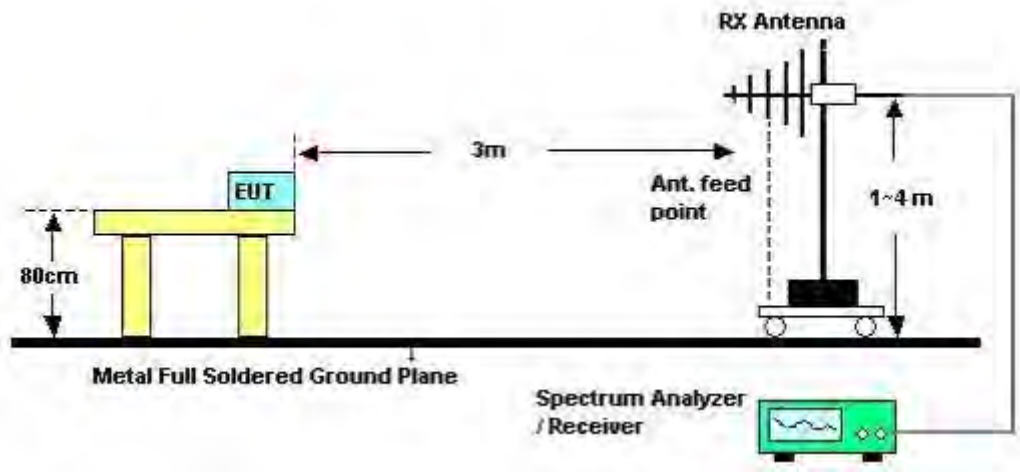
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

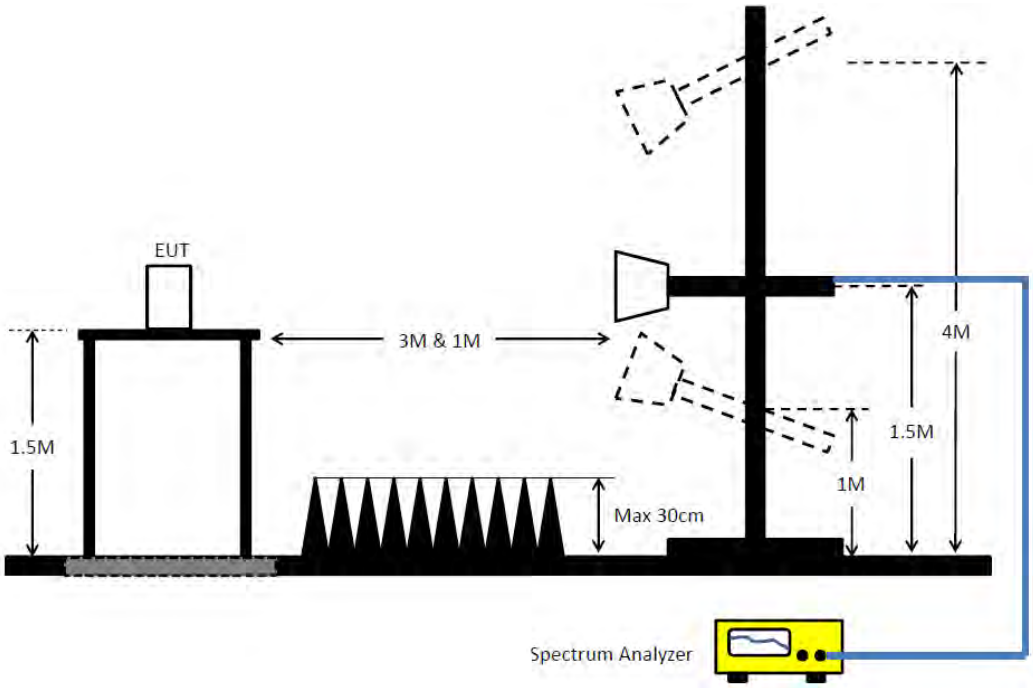
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 31, 2018	Jan. 30, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 24, 2017	Nov. 23, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2017	Nov. 12, 2018	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)

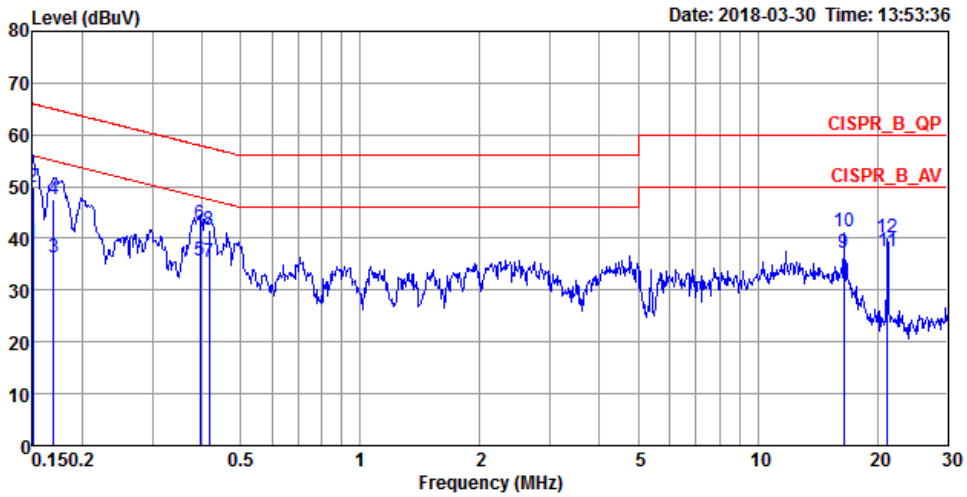
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

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

"*" Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.

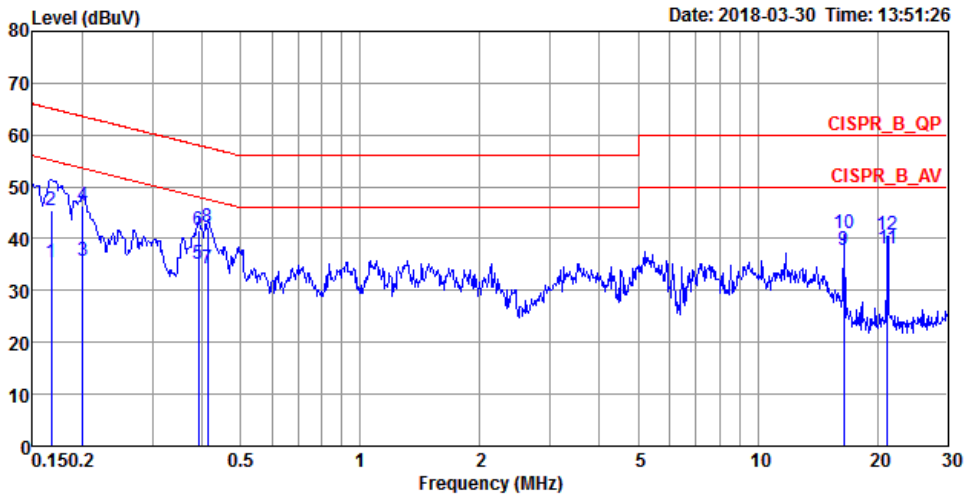
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	39.20	-16.80	56.00	29.12	9.92	0.16	Average	NEUTRAL
2	0.1500	49.96	-16.04	66.00	39.88	9.92	0.16	QP	NEUTRAL
3	0.1694	36.20	-18.79	54.99	26.13	9.92	0.15	Average	NEUTRAL
4	0.1694	47.39	-17.60	64.99	37.32	9.92	0.15	QP	NEUTRAL
5	0.3955	35.72	-12.23	47.95	25.79	9.92	0.01	Average	NEUTRAL
6	0.3955	42.69	-15.26	57.95	32.76	9.92	0.01	QP	NEUTRAL
7	0.4171	35.48	-12.03	47.51	25.54	9.92	0.02	Average	NEUTRAL
8	0.4171	41.65	-15.86	57.51	31.71	9.92	0.02	QP	NEUTRAL
9	16.4648	37.31	-12.69	50.00	26.92	10.20	0.19	Average	NEUTRAL
10	16.4648	41.46	-18.54	60.00	31.07	10.20	0.19	QP	NEUTRAL
11	21.1672	37.59	-12.41	50.00	27.11	10.27	0.21	Average	NEUTRAL
12	21.1672	40.10	-19.90	60.00	29.62	10.27	0.21	QP	NEUTRAL

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

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1668	35.52	-19.60	55.12	25.46	9.91	0.15	Average	LINE
2	0.1668	45.50	-19.62	65.12	35.44	9.91	0.15	QP	LINE
3	0.2007	35.86	-17.72	53.58	25.82	9.91	0.13	Average	LINE
4	0.2007	46.44	-17.14	63.58	36.40	9.91	0.13	QP	LINE
5	0.3914	35.25	-12.78	48.03	25.33	9.91	0.01	Average	LINE
6	0.3914	41.54	-16.49	58.03	31.62	9.91	0.01	QP	LINE
7	0.4127	34.21	-13.38	47.59	24.28	9.91	0.02	Average	LINE
8	0.4127	42.20	-15.39	57.59	32.27	9.91	0.02	QP	LINE
9	16.4642	37.72	-12.28	50.00	27.22	10.31	0.19	Average	LINE
10	16.4642	41.11	-18.89	60.00	30.61	10.31	0.19	QP	LINE
11	21.1676	38.16	-11.84	50.00	27.54	10.41	0.21	Average	LINE
12	21.1676	40.79	-19.21	60.00	30.17	10.41	0.21	QP	LINE

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

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	39.7M	24.163M	24M2D1D	26.375M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	48.325M	23.088M	23M1D1D	29.575M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	70.2M	36.332M	36M3D1D	62.35M	35.982M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.2M	75.262M	75M3D1D	79.6M	75.062M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	38.975M	17.916M	17M9D1D	26.4M	17.591M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	41.1M	36.082M	36M1D1D	39.9M	35.932M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	81.4M	75.262M	75M3D1D	79.5M	75.062M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.65M	21.814M	21M8D1D	15M	16.467M
802.11ac VHT20_Nss1,(MCS0)_2TX	15.9M	25.312M	25M3D1D	14.975M	18.316M
802.11ac VHT40_Nss1,(MCS0)_2TX	35M	53.373M	53M4D1D	28.85M	38.431M
802.11ac VHT80_Nss1,(MCS0)_2TX	72.5M	77.161M	77M2D1D	70M	76.862M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	15.675M	20.615M	20M6D1D	13.775M	17.641M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	35.1M	36.882M	36M9D1D	35M	36.132M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	75M	75.962M	76M0D1D	67.5M	75.662M

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

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	28.3M	16.442M	26.375M	16.392M
5200MHz	Pass	Inf	39.475M	24.163M	39.7M	23.113M
5240MHz	Pass	Inf	36.675M	19.065M	38.15M	19.99M
5745MHz	Pass	500k	15.65M	16.492M	15.125M	16.517M
5785MHz	Pass	500k	15.075M	20.715M	15.1M	16.467M
5825MHz	Pass	500k	15M	21.814M	15.125M	17.416M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	48.325M	23.088M	29.575M	17.616M
5200MHz	Pass	Inf	42M	22.614M	43.175M	20.365M
5240MHz	Pass	Inf	41.5M	19.54M	39.5M	18.066M
5745MHz	Pass	500k	15.9M	25.312M	15.125M	23.788M
5785MHz	Pass	500k	15.1M	21.989M	15.025M	19.74M
5825MHz	Pass	500k	15.6M	22.514M	14.975M	18.316M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	70.2M	35.982M	62.35M	35.982M
5230MHz	Pass	Inf	68.8M	36.332M	68.15M	36.282M
5755MHz	Pass	500k	28.85M	53.373M	32.55M	47.876M
5795MHz	Pass	500k	35M	38.431M	33.8M	48.776M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	79.6M	75.062M	81.2M	75.262M
5775MHz	Pass	500k	72.5M	77.161M	70M	76.862M
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	26.4M	17.591M	27.825M	17.666M
5200MHz	Pass	Inf	38.975M	17.791M	37.675M	17.916M
5240MHz	Pass	Inf	33.675M	17.616M	36.4M	17.816M
5745MHz	Pass	500k	13.775M	17.816M	15.625M	17.866M
5785MHz	Pass	500k	14.975M	20.615M	15.075M	18.516M
5825MHz	Pass	500k	15.075M	18.416M	15.675M	17.641M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.45M	35.932M	39.9M	35.932M
5230MHz	Pass	Inf	41.1M	35.932M	40.25M	36.082M
5755MHz	Pass	500k	35M	36.532M	35M	36.882M
5795MHz	Pass	500k	35.1M	36.132M	35.05M	36.332M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	75.062M	79.5M	75.262M
5775MHz	Pass	500k	75M	75.662M	67.5M	75.962M

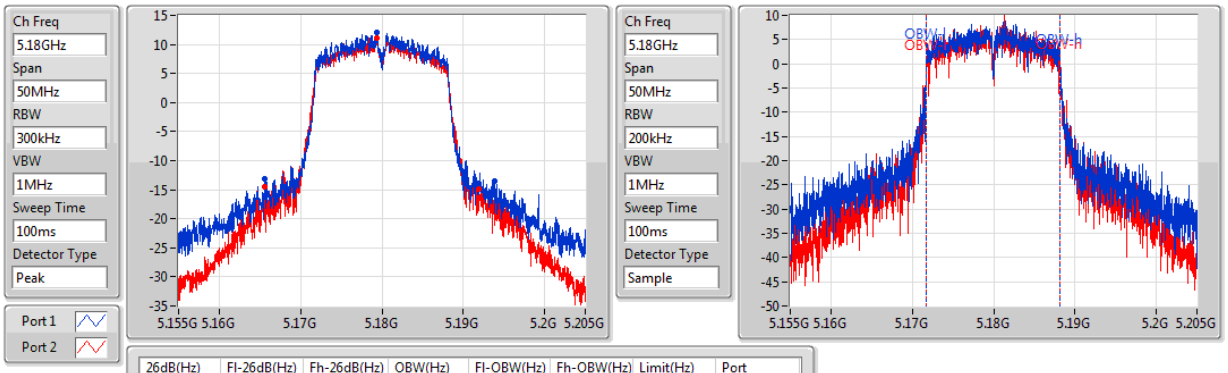
Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

03/04/2018



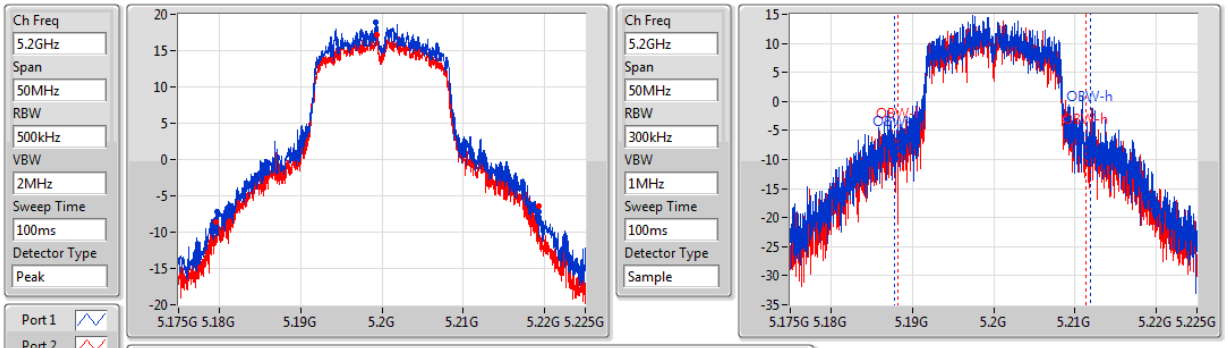
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.3M	5.165625G	5.193925G	16.442M	5.171754G	5.188196G	Inf	1
26.375M	5.165575G	5.19195G	16.392M	5.171779G	5.188171G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

03/04/2018



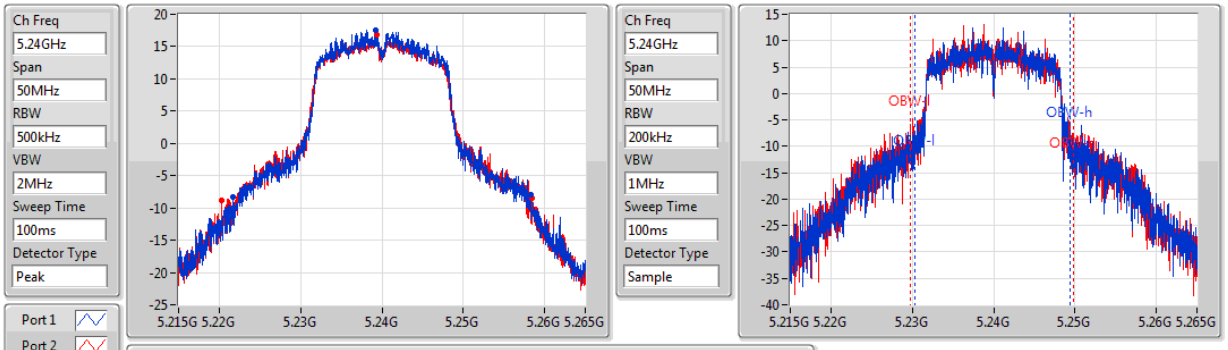
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.475M	5.1798G	5.219275G	24.163M	5.187806G	5.211969G	Inf	1
39.7M	5.1796G	5.2193G	23.113M	5.188281G	5.211394G	Inf	2

802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

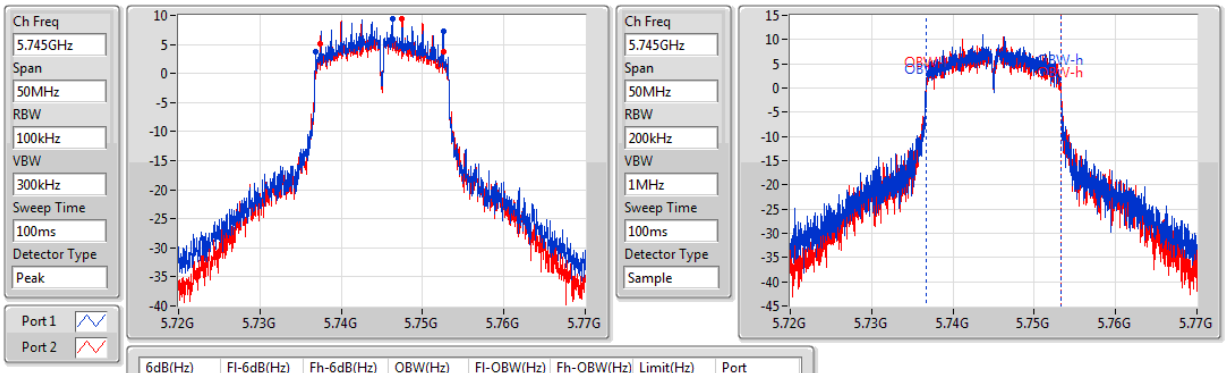
03/04/2018



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.675M	5.221625G	5.2583G	19.065M	5.230355G	5.24942G	Inf	1
38.15M	5.2203G	5.25845G	19.99M	5.22978G	5.24977G	Inf	2

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

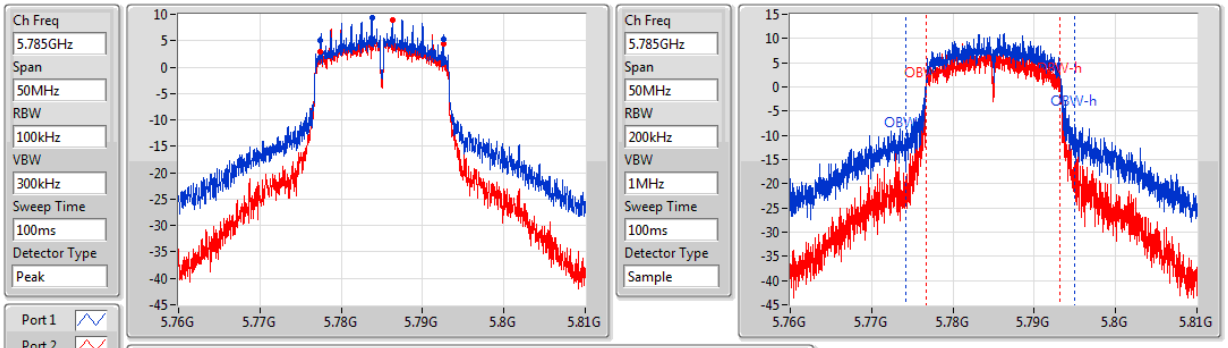
03/04/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.65M	5.736875G	5.752525G	16.492M	5.736729G	5.753221G	500k	1
15.125M	5.73745G	5.752575G	16.517M	5.736729G	5.753246G	500k	2

802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

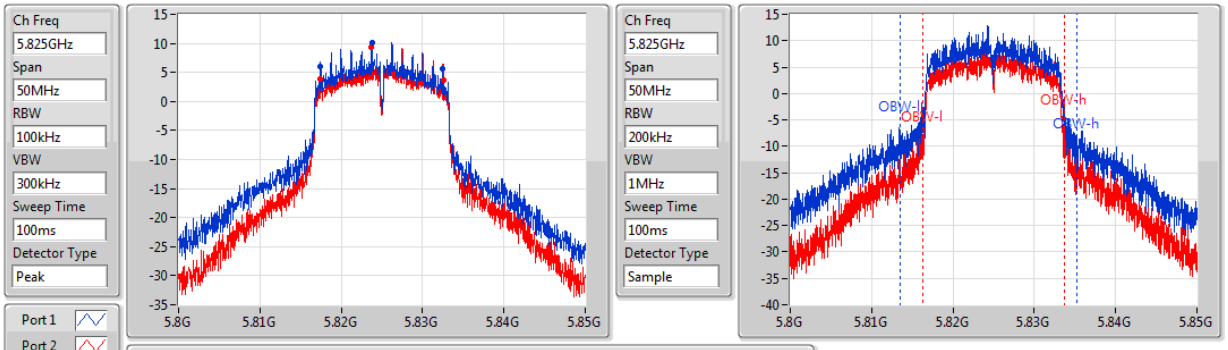
03/04/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	5.777475G	5.79255G	20.715M	5.774255G	5.79497G	500k	1
15.1M	5.77745G	5.79255G	16.467M	5.776729G	5.793196G	500k	2

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

03/04/2018



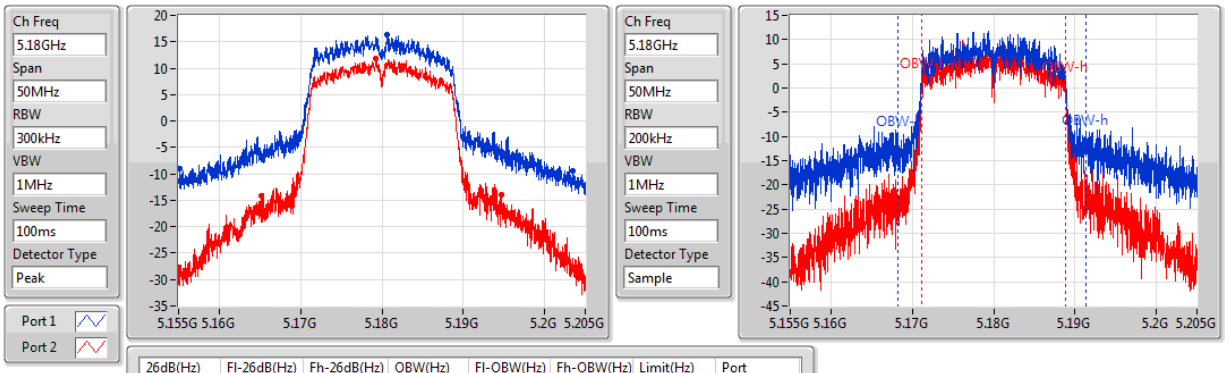
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	5.81745G	5.83245G	21.814M	5.813456G	5.83527G	500k	1
15.125M	5.81745G	5.832575G	17.416M	5.816254G	5.833671G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

03/04/2018



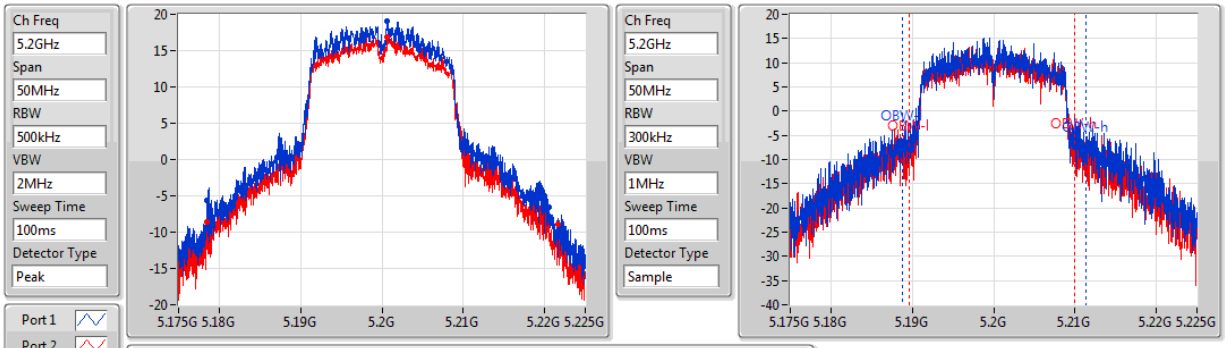
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
48.325M	5.155125G	5.20345G	23.088M	5.168256G	5.191344G	Inf	1
29.575M	5.1651G	5.194675G	17.616M	5.171179G	5.188796G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

03/04/2018



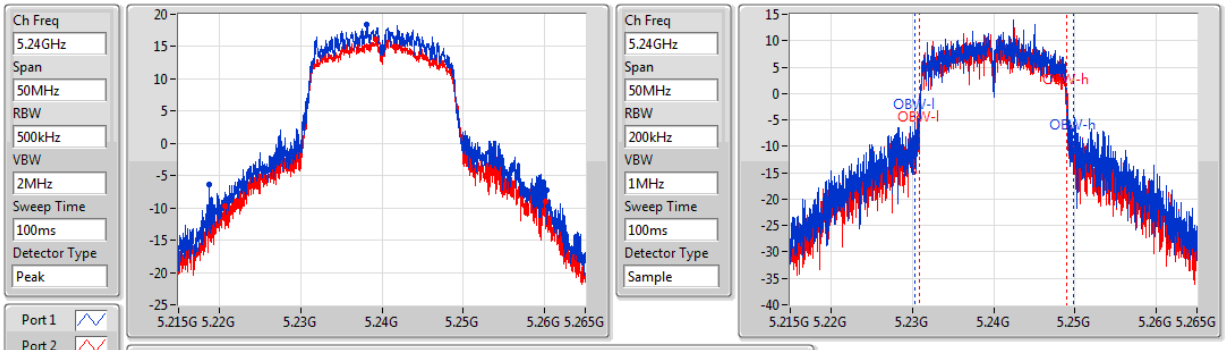
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42M	5.1785G	5.2205G	22.614M	5.188756G	5.211369G	Inf	1
43.175M	5.1785G	5.221675G	20.365M	5.189555G	5.20992G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

03/04/2018

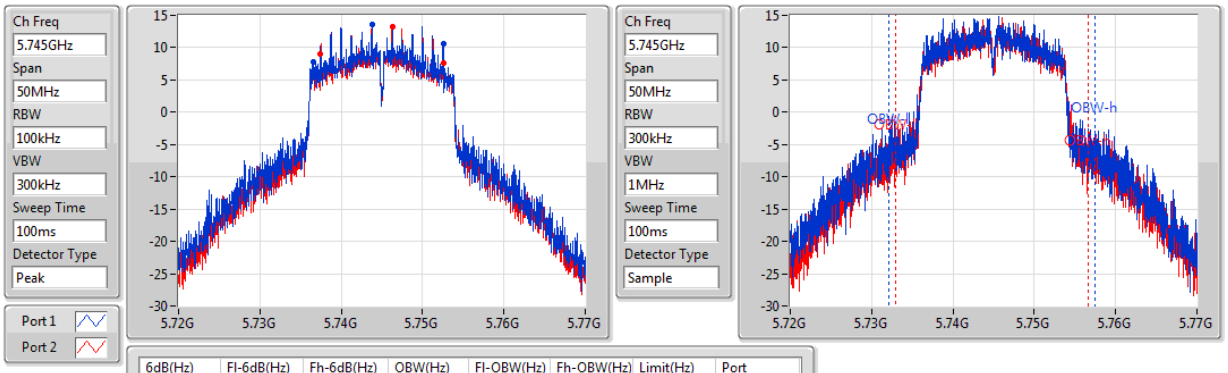


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.5M	5.2188G	5.2603G	19.54M	5.230305G	5.249845G	Inf	1
39.5M	5.220675G	5.260175G	18.066M	5.230905G	5.248971G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5745MHz

03/04/2018

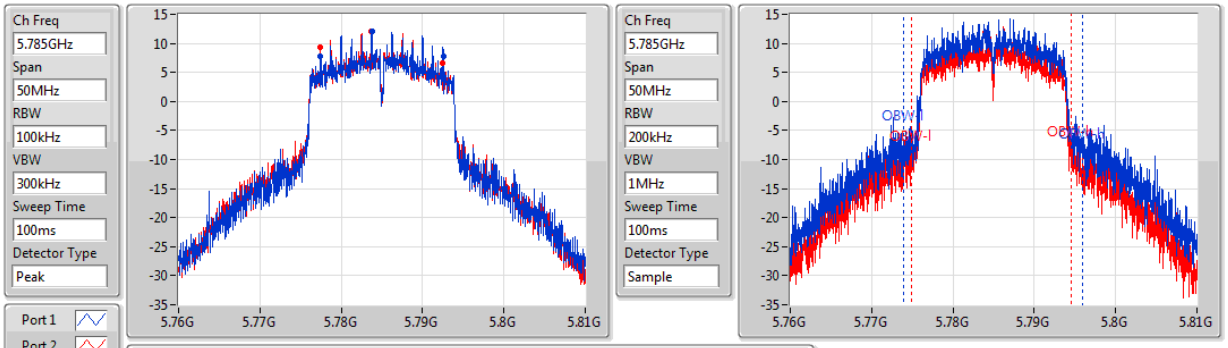


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.9M	5.736625G	5.752525G	25.312M	5.732156G	5.757469G	500k	1
15.125M	5.73745G	5.752575G	23.788M	5.732906G	5.756694G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5785MHz

03/04/2018

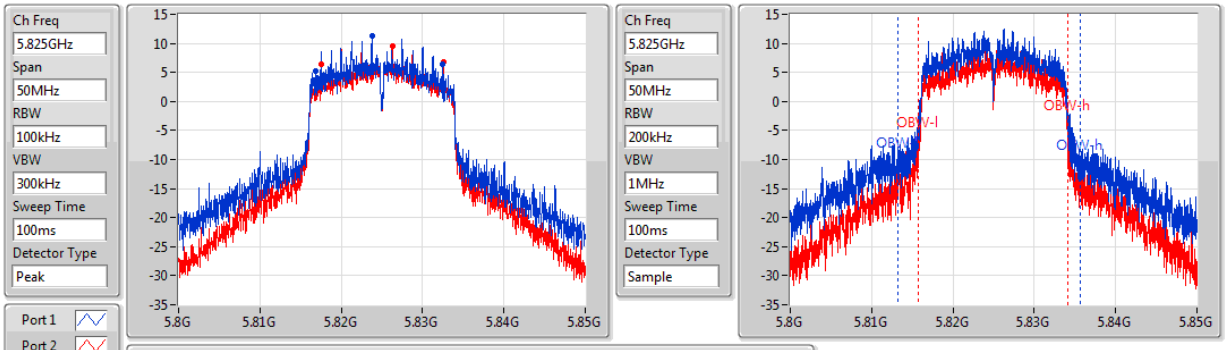


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	5.77745G	5.79255G	21.989M	5.773931G	5.79592G	500k	1
15.025M	5.777475G	5.7925G	19.74M	5.774855G	5.794595G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

5825MHz

03/04/2018

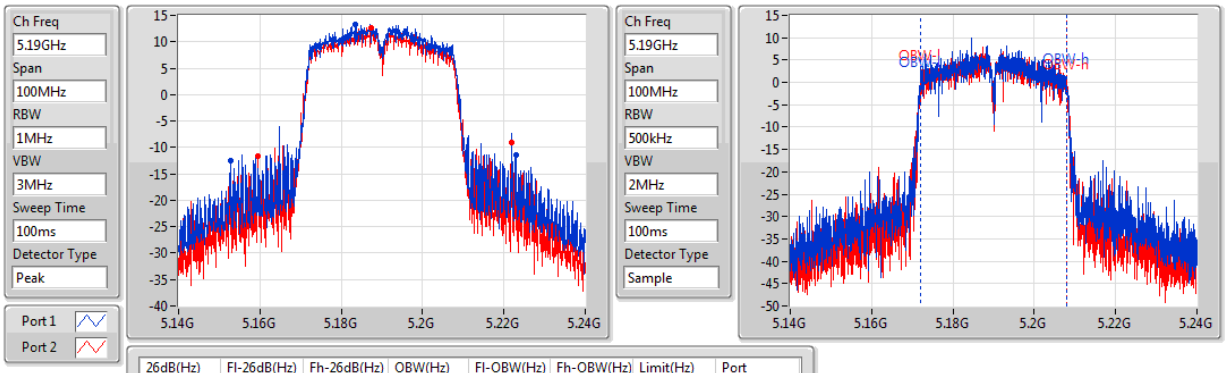


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.6M	5.816875G	5.832475G	22.514M	5.813181G	5.835695G	500k	1
14.975M	5.817575G	5.83255G	18.316M	5.81578G	5.834095G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5190MHz

03/04/2018

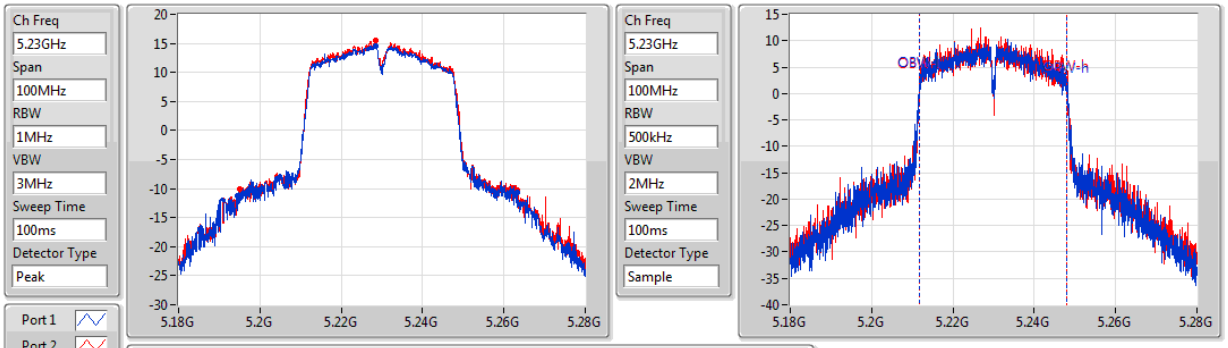


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
70.2M	5.1528G	5.223G	35.982M	5.172009G	5.207991G	Inf	1
62.35M	5.1595G	5.22185G	35.982M	5.172009G	5.207991G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5230MHz

20/04/2018

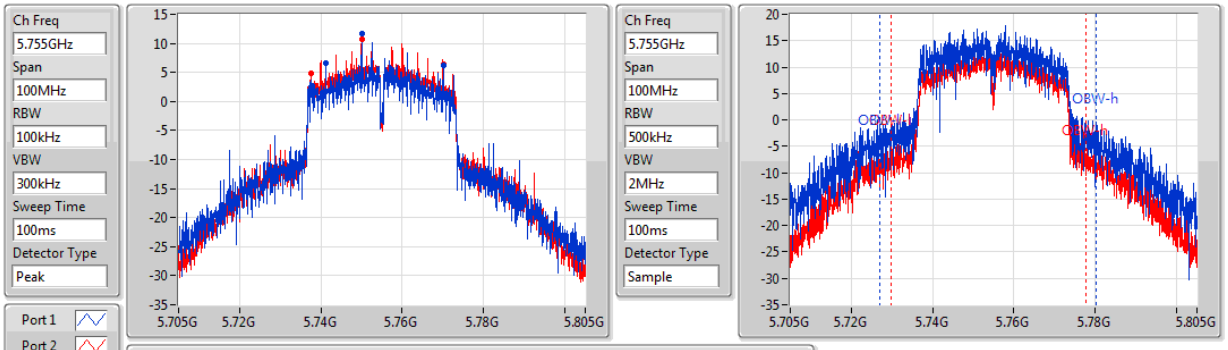


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
68.8M	5.19445G	5.26325G	36.332M	5.211759G	5.248091G	Inf	1
68.15M	5.195G	5.26315G	36.282M	5.211809G	5.248091G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5755MHz

03/04/2018

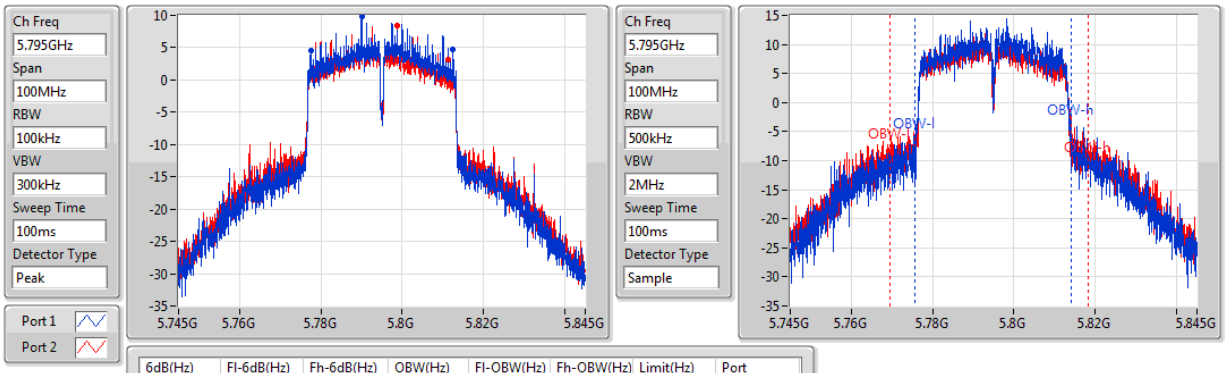


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.85M	5.7412G	5.77005G	53.373M	5.726914G	5.780287G	500k	1
32.55M	5.7375G	5.77005G	47.876M	5.729913G	5.777789G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5795MHz

03/04/2018

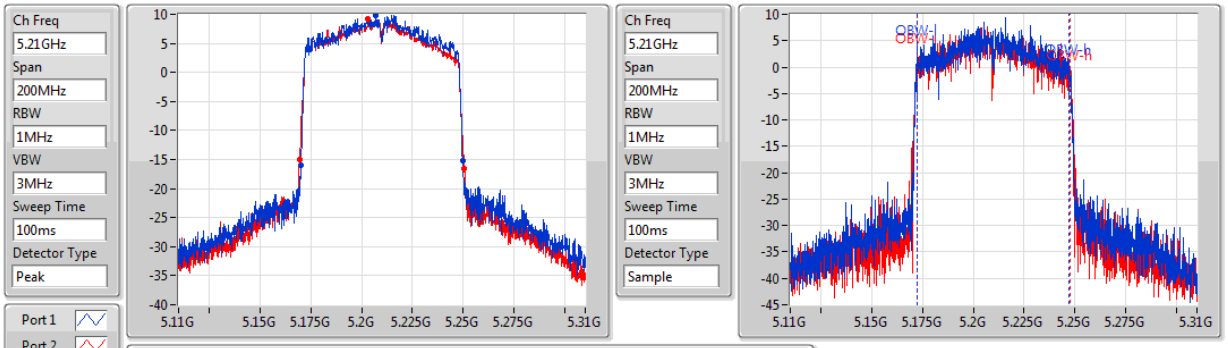


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	5.7775G	5.8125G	38.431M	5.77571G	5.81414G	500k	1
33.8M	5.7775G	5.8113G	48.776M	5.769563G	5.818338G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5210MHz

03/04/2018

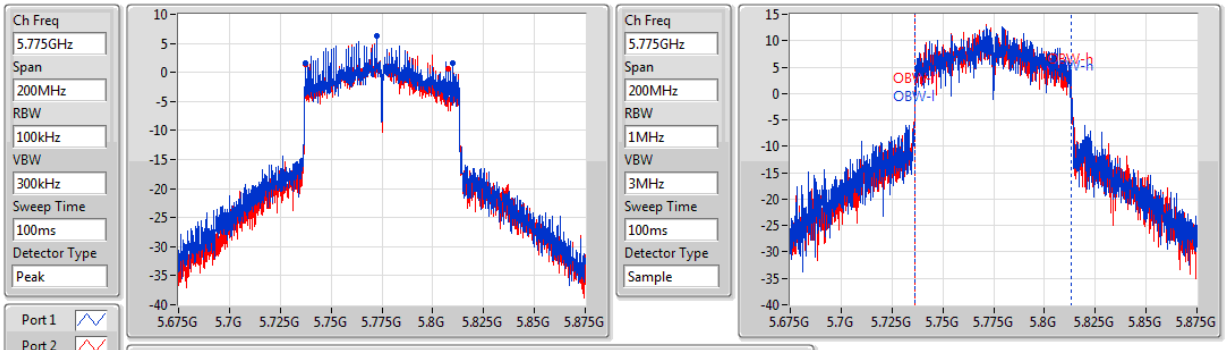


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
79.6M	5.1701G	5.2497G	75.062M	5.172219G	5.247281G	Inf	1
81.2M	5.1694G	5.2506G	75.262M	5.172219G	5.247481G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX EBW

5775MHz

03/04/2018



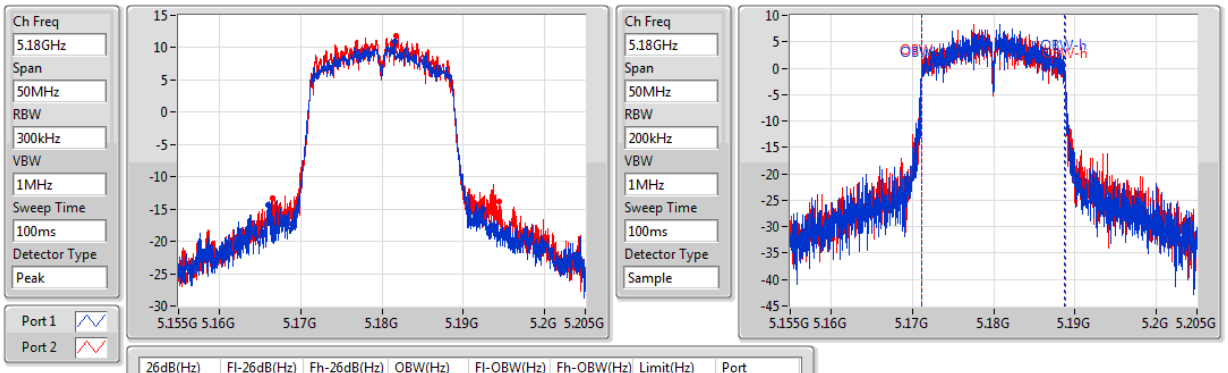
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
72.5M	5.7375G	5.81G	77.161M	5.736119G	5.813281G	500k	1
70M	5.7375G	5.8075G	76.862M	5.736419G	5.813281G	500k	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

5180MHz

18/04/2018



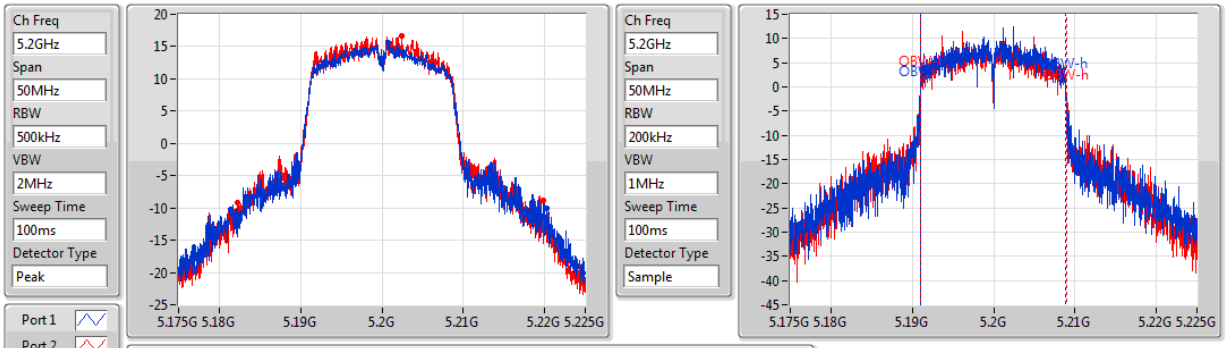
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.4M	5.166025G	5.192425G	17.591M	5.171154G	5.188746G	Inf	1
27.825M	5.1666G	5.194425G	17.666M	5.171129G	5.188796G	Inf	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

5200MHz

18/04/2018



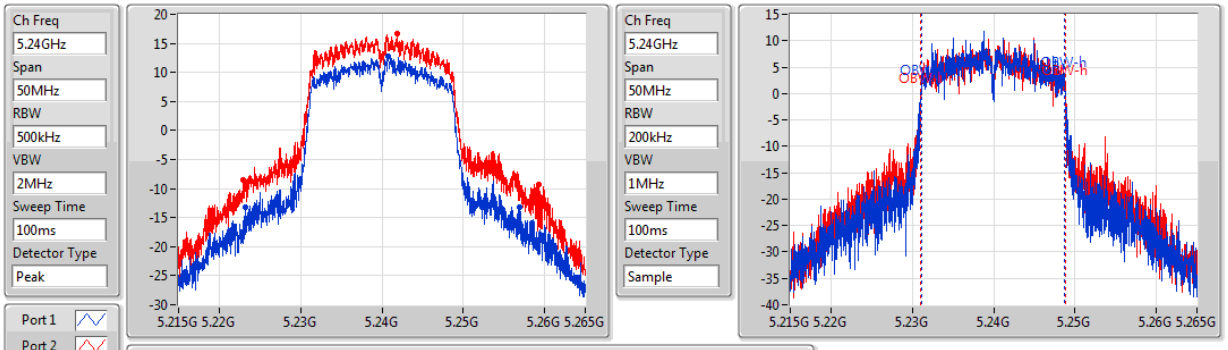
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.975M	5.18135G	5.220325G	17.791M	5.191054G	5.208846G	Inf	1
37.675M	5.182225G	5.2199G	17.916M	5.191029G	5.208946G	Inf	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

5240MHz

18/04/2018



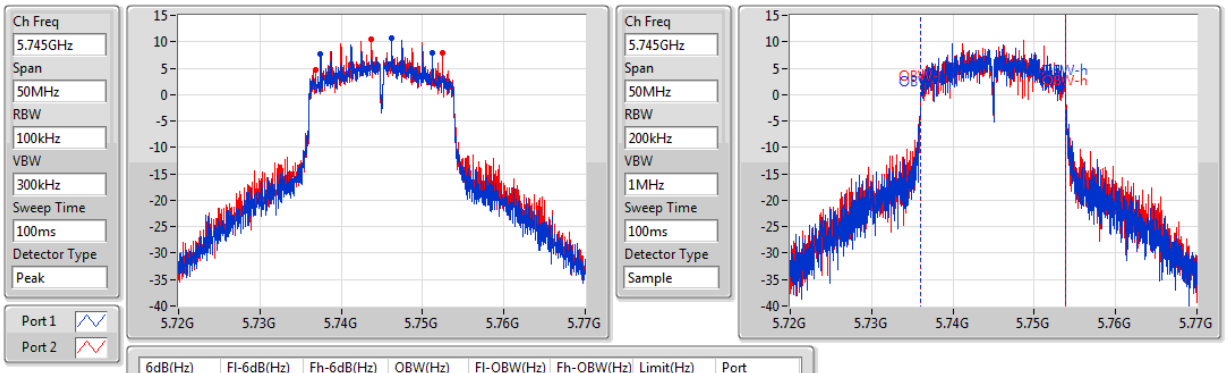
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.675M	5.223225G	5.2569G	17.616M	5.231129G	5.248746G	Inf	1
36.4M	5.22295G	5.25935G	17.816M	5.231029G	5.248846G	Inf	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

5745MHz

18/04/2018



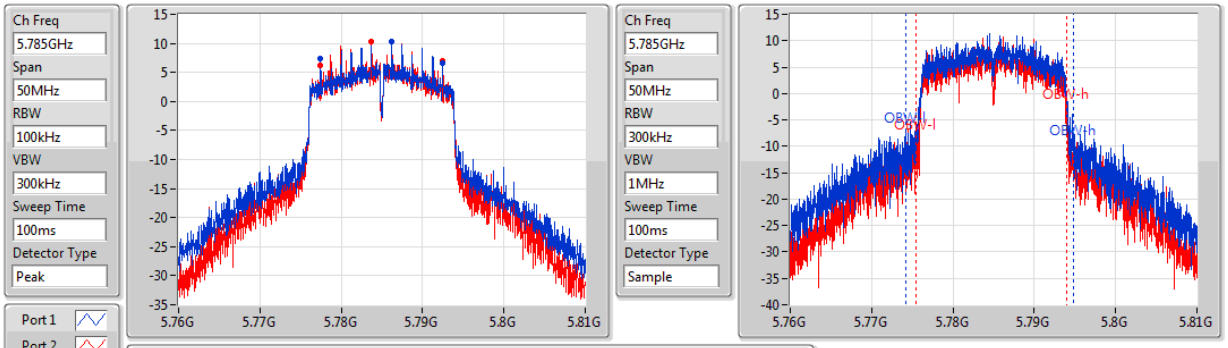
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.775M	5.737475G	5.75125G	17.816M	5.736029G	5.753846G	500k	1
15.625M	5.73685G	5.752475G	17.866M	5.736029G	5.753896G	500k	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

5785MHz

18/04/2018



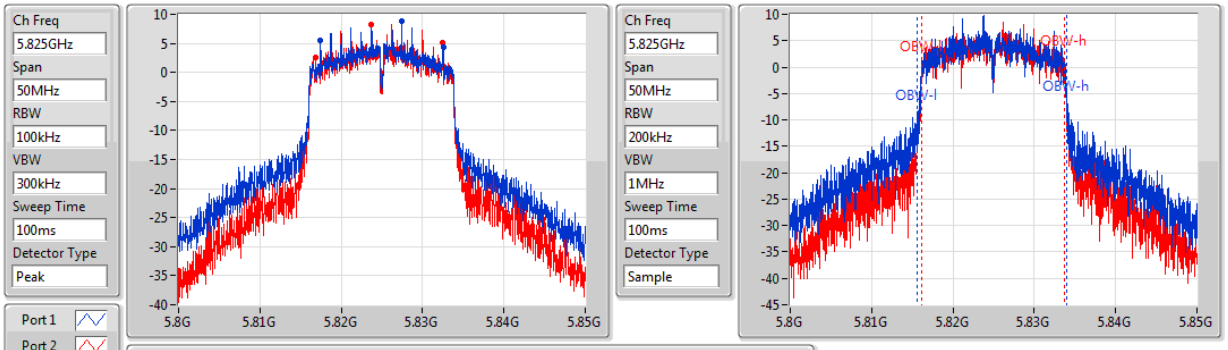
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.975M	5.777475G	5.79245G	20.615M	5.77423G	5.794845G	500k	1
15.075M	5.777425G	5.7925G	18.516M	5.775505G	5.79402G	500k	2

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

5825MHz

18/04/2018

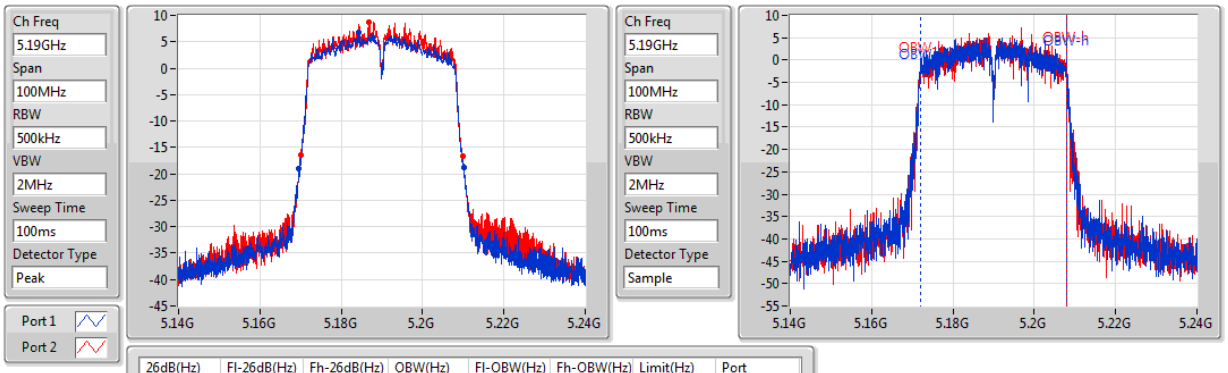


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	5.81745G	5.832525G	18.416M	5.815605G	5.83402G	500k	1
15.675M	5.816825G	5.8325G	17.641M	5.816129G	5.833771G	500k	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5190MHz

18/04/2018

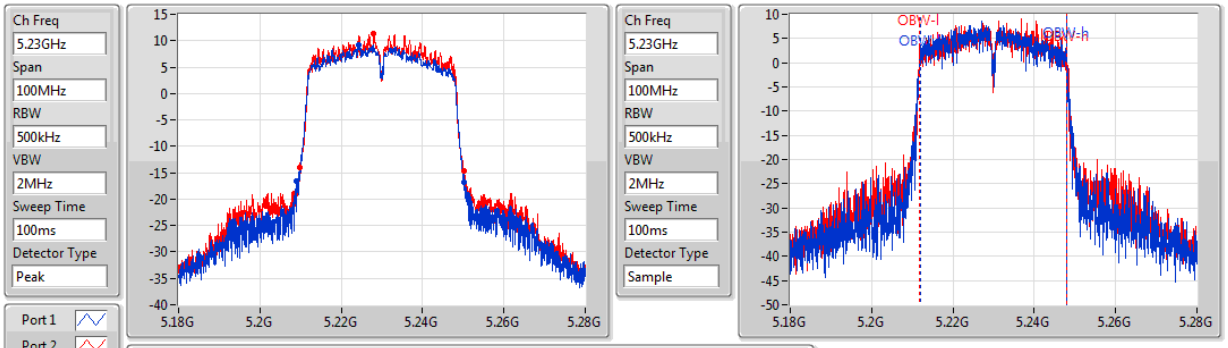


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.45M	5.16965G	5.2101G	35.932M	5.172009G	5.207941G	Inf	1
39.9M	5.17G	5.2099G	35.932M	5.172009G	5.207941G	Inf	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5230MHz

18/04/2018

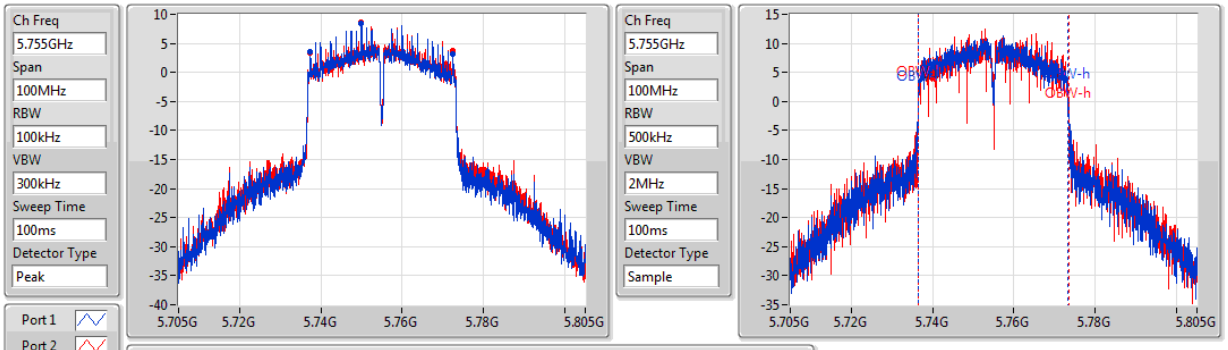


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.1M	5.2091G	5.2502G	35.932M	5.211959G	5.247891G	Inf	1
40.25M	5.2099G	5.25015G	36.082M	5.211859G	5.247941G	Inf	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5755MHz

18/04/2018

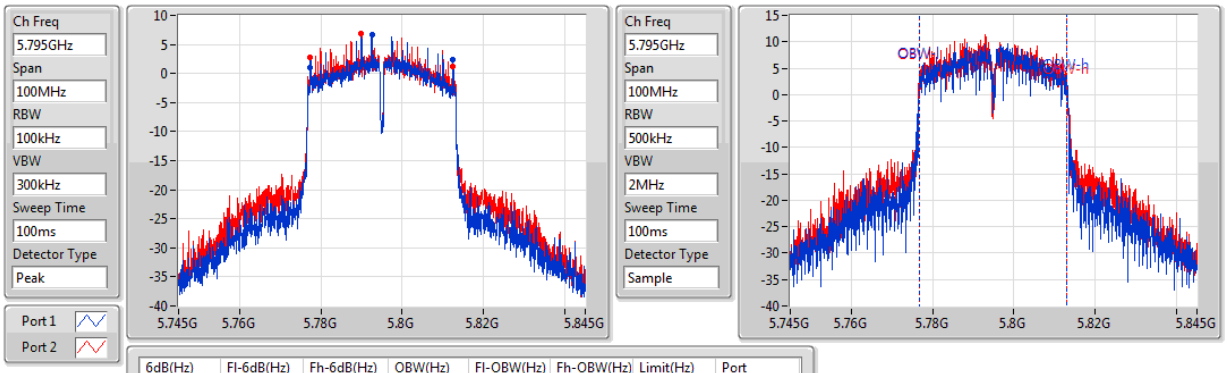


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	5.73745G	5.77245G	36.532M	5.736609G	5.773141G	500k	1
35M	5.73745G	5.77245G	36.882M	5.736509G	5.773391G	500k	2

802.11ac VHT40-BF_Nss1,(MCS0)_2TX EBW

5795MHz

18/04/2018

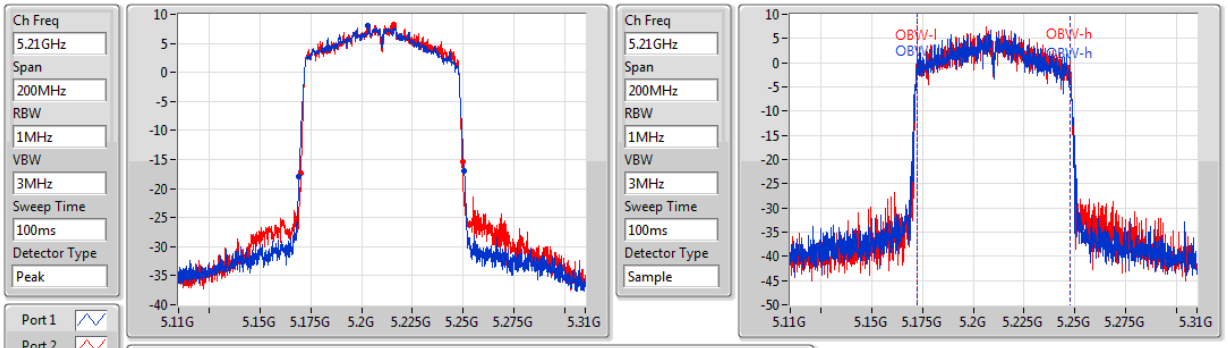


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.1M	5.7774G	5.8125G	36.132M	5.776859G	5.812991G	500k	1
35.05M	5.77745G	5.8125G	36.332M	5.776709G	5.813041G	500k	2

802.11ac VHT80-BF_Nss1,(MCS0)_2TX EBW

5210MHz

18/04/2018

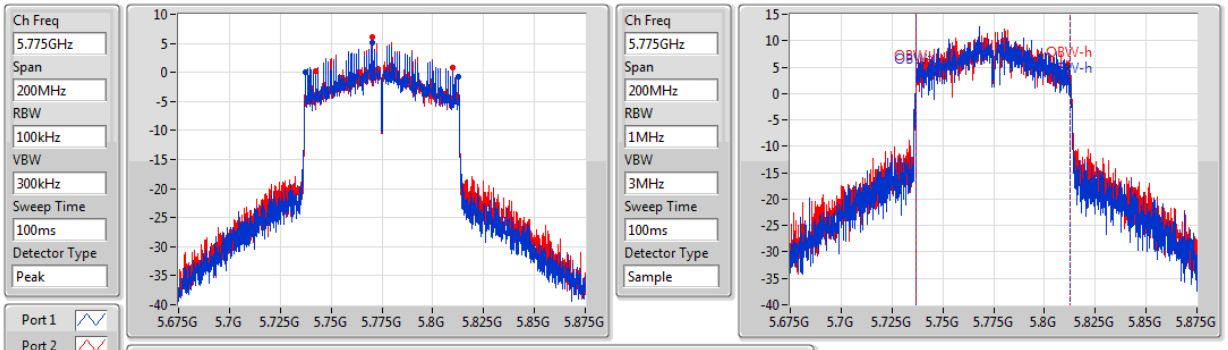


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.4M	5.1692G	5.2506G	75.062M	5.172319G	5.247381G	Inf	1
79.5M	5.1702G	5.2497G	75.262M	5.172319G	5.247581G	Inf	2

802.11ac VHT80-BF_Nss1,(MCS0)_2TX EBW

5775MHz

18/04/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75M	5.7375G	5.8125G	75.662M	5.737019G	5.812681G	500k	1
67.5M	5.7425G	5.81G	75.962M	5.736919G	5.812881G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.24	0.33420
802.11ac VHT20_Nss1,(MCS0)_2TX	25.19	0.33037
802.11ac VHT40_Nss1,(MCS0)_2TX	22.79	0.19011
802.11ac VHT80_Nss1,(MCS0)_2TX	19.00	0.07943
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	24.81	0.30269
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	21.37	0.13709
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	18.58	0.07211
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	22.24	0.16749
802.11ac VHT20_Nss1,(MCS0)_2TX	25.75	0.37584
802.11ac VHT40_Nss1,(MCS0)_2TX	25.06	0.32063
802.11ac VHT80_Nss1,(MCS0)_2TX	23.70	0.23442
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	24.28	0.26792
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	24.96	0.31333
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	23.46	0.22182

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.88	19.14	18.53	21.86	30.00
5200MHz	Pass	3.88	22.57	21.87	25.24	30.00
5240MHz	Pass	3.88	21.9	21.26	24.60	30.00
5745MHz	Pass	3.88	19.43	19.02	22.24	30.00
5785MHz	Pass	3.88	18.78	18.14	21.48	30.00
5825MHz	Pass	3.88	19.31	18.56	21.96	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	3.88	19.96	19.11	22.57	30.00
5200MHz	Pass	3.88	22.62	21.68	25.19	30.00
5240MHz	Pass	3.88	22.24	21.43	24.86	30.00
5745MHz	Pass	3.88	23	22.47	25.75	30.00
5785MHz	Pass	3.88	21.39	20.95	24.19	30.00
5825MHz	Pass	3.88	20.03	19.35	22.71	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	3.88	16.63	15.81	19.25	30.00
5230MHz	Pass	3.88	19.84	19.72	22.79	30.00
5755MHz	Pass	3.88	21.83	22.25	25.06	30.00
5795MHz	Pass	3.88	20.65	19.81	23.26	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	3.88	16.11	15.87	19.00	30.00
5775MHz	Pass	3.88	21.15	20.17	23.70	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.89	19.26	19.24	22.26	29.11
5200MHz	Pass	6.89	21.98	21.61	24.81	29.11
5240MHz	Pass	6.89	21.35	21.35	24.36	29.11
5745MHz	Pass	6.89	21.2	21.34	24.28	29.11
5785MHz	Pass	6.89	21.06	20.85	23.97	29.11
5825MHz	Pass	6.89	19.69	19.3	22.51	29.11
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.89	16.06	15.87	18.98	29.11
5230MHz	Pass	6.89	18.34	18.38	21.37	29.11
5755MHz	Pass	6.89	21.33	22.5	24.96	29.11
5795MHz	Pass	6.89	20.04	19.89	22.98	29.11
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.89	15.6	15.54	18.58	29.11
5775MHz	Pass	6.89	20.37	20.53	23.46	29.11

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.57
802.11ac VHT20_Nss1,(MCS0)_2TX	14
802.11ac VHT40_Nss1,(MCS0)_2TX	8.63
802.11ac VHT80_Nss1,(MCS0)_2TX	0.8
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	11.67
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	4.92
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-1.76
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	10.1
802.11ac VHT20_Nss1,(MCS0)_2TX	13.09
802.11ac VHT40_Nss1,(MCS0)_2TX	8.86
802.11ac VHT80_Nss1,(MCS0)_2TX	4.52
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	9.55
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	6.61
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	1.81

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

Result

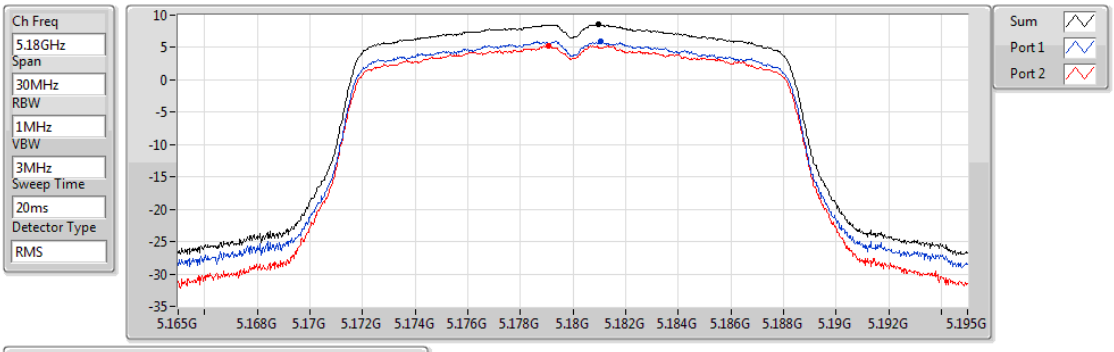
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.89	6.01	5.33	8.52	16.11
5200MHz	Pass	6.89	10.42	10.08	13.18	16.11
5240MHz	Pass	6.89	10.94	10.49	13.57	16.11
5745MHz	Pass	6.89	7.36	6.91	10.10	29.11
5785MHz	Pass	6.89	6.53	6.16	9.35	29.11
5825MHz	Pass	6.89	5.03	4.42	7.74	29.11
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.89	7.31	6.31	9.78	16.11
5200MHz	Pass	6.89	11.34	10.38	13.86	16.11
5240MHz	Pass	6.89	11.43	10.55	14.00	16.11
5745MHz	Pass	6.89	10.34	9.99	13.09	29.11
5785MHz	Pass	6.89	9.18	8.88	11.91	29.11
5825MHz	Pass	6.89	4.72	3.86	7.25	29.11
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.89	1.47	0.44	3.98	16.11
5230MHz	Pass	6.89	5.61	5.70	8.63	16.11
5755MHz	Pass	6.89	5.4	6.57	8.86	29.11
5795MHz	Pass	6.89	5.8	4.91	8.31	29.11
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.89	-1.64	-1.96	0.80	16.11
5775MHz	Pass	6.89	2.04	1.25	4.52	29.11
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.89	6.08	6.07	9.04	16.11
5200MHz	Pass	6.89	8.9	8.71	11.67	16.11
5240MHz	Pass	6.89	8.17	8.2	11.06	16.11
5745MHz	Pass	6.89	6.39	6.23	9.18	29.11
5785MHz	Pass	6.89	6.52	6.6	9.55	29.11
5825MHz	Pass	6.89	4.78	4.72	7.65	29.11
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.89	-0.61	-1	2.18	16.11
5230MHz	Pass	6.89	1.82	2.1	4.92	16.11
5755MHz	Pass	6.89	3.13	4.07	6.61	29.11
5795MHz	Pass	6.89	1.59	2.11	4.63	29.11
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.89	-4.37	-4.71	-1.76	16.11
5775MHz	Pass	6.89	-1.36	-1.03	1.81	29.11

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

802.11a_Nss1,(6Mbps)_2TX PSD

5180MHz

29/01/2018

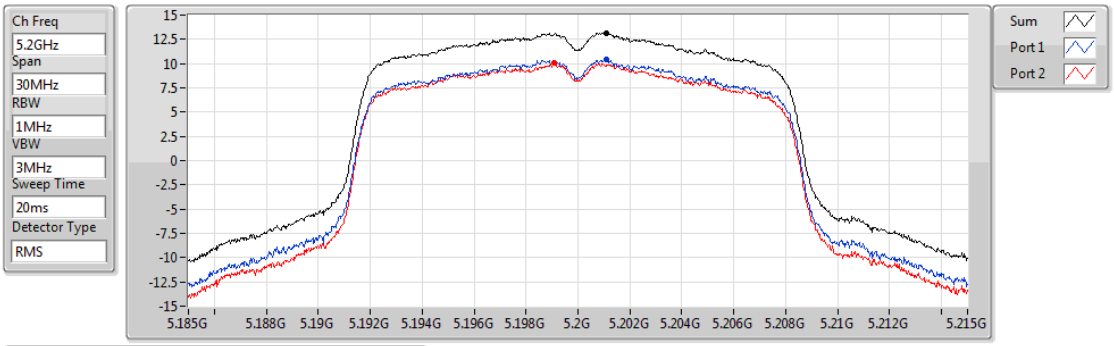


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.52	8.52	6.01	5.33

802.11a_Nss1,(6Mbps)_2TX PSD

5200MHz

15/01/2018

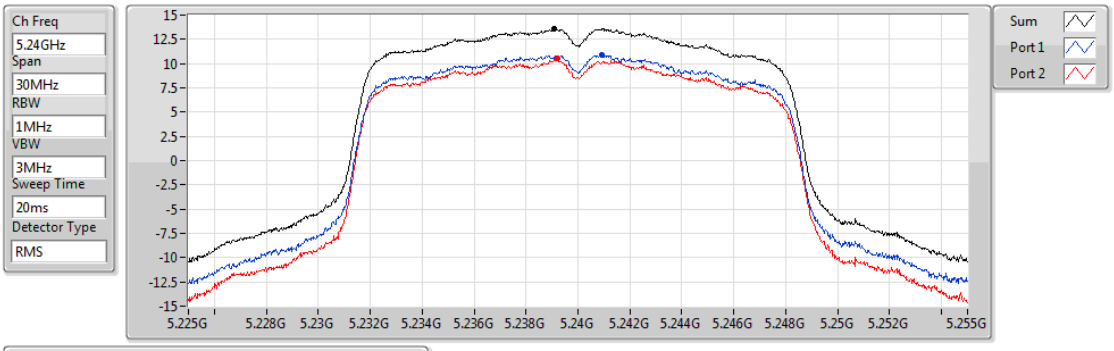


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.18	13.18	10.42	10.08

802.11a_Nss1,(6Mbps)_2TX PSD

5240MHz

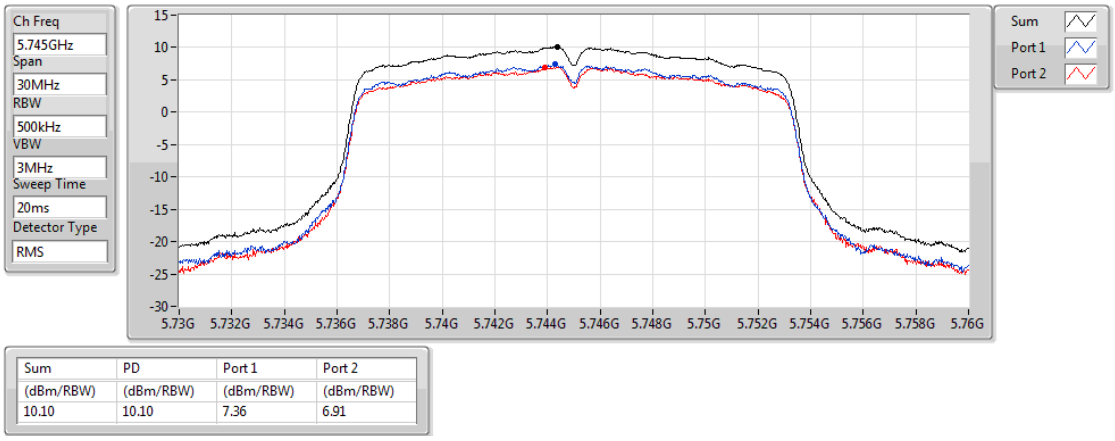
03/04/2018



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.57	13.57	10.94	10.49

802.11a_Nss1,(6Mbps)_2TX PSD

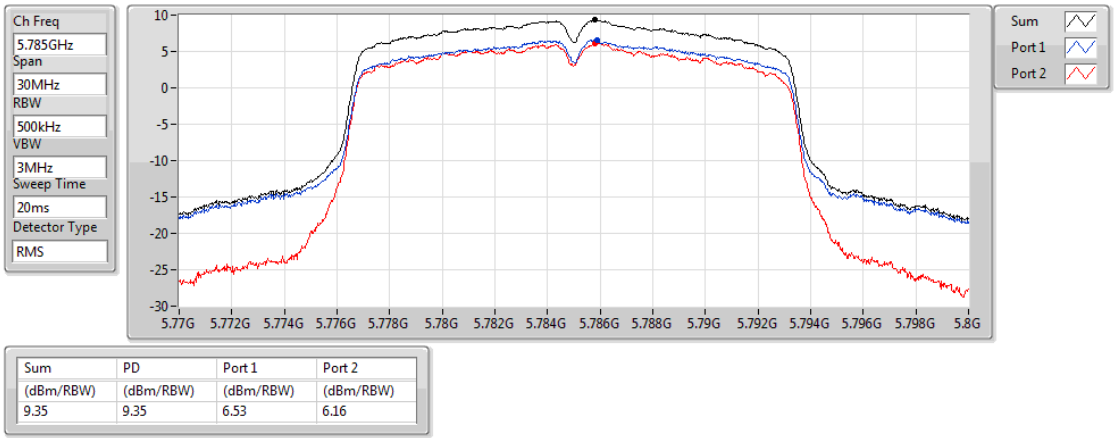
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.10	10.10	7.36	6.91

802.11a_Nss1,(6Mbps)_2TX PSD

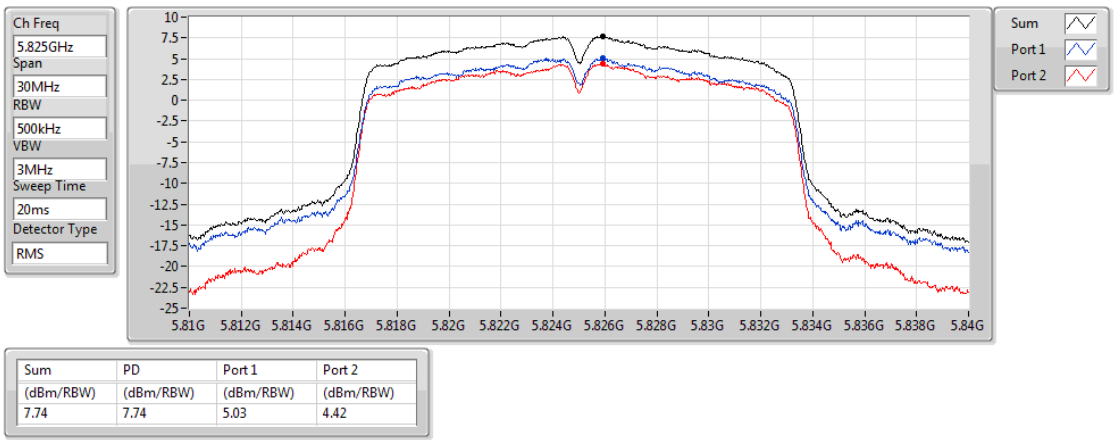
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.35	9.35	6.53	6.16

802.11a_Nss1,(6Mbps)_2TX PSD

5825MHz

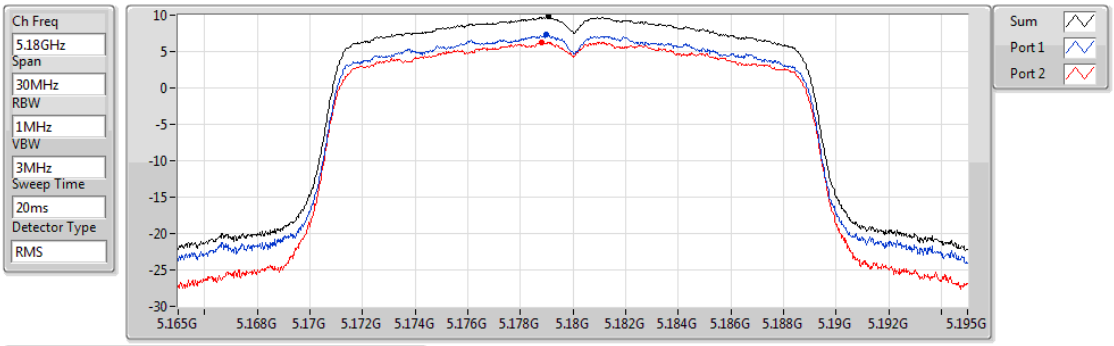


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.74	7.74	5.03	4.42

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5180MHz

29/01/2018

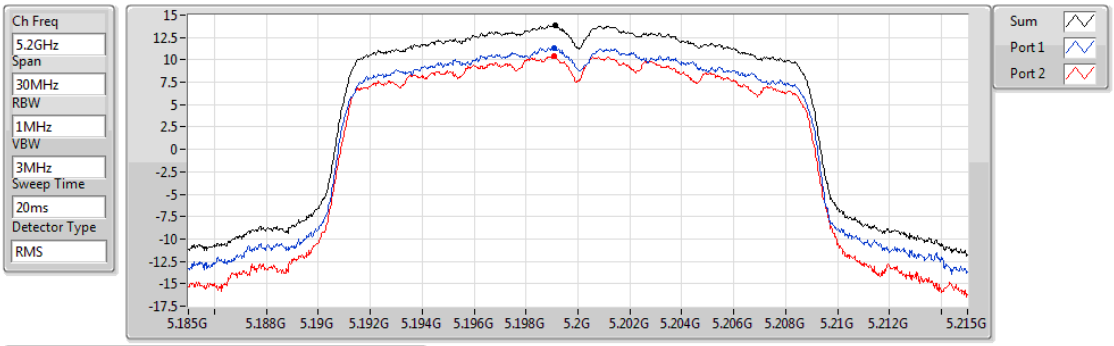


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.78	9.78	7.31	6.31

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5200MHz

03/04/2018

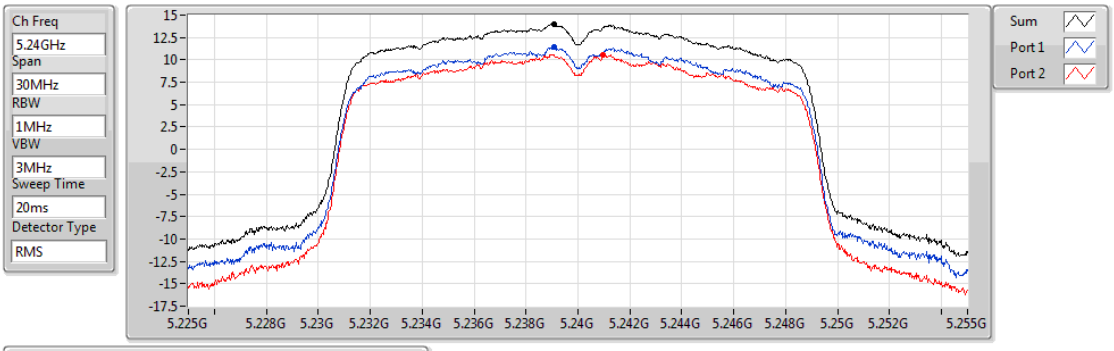


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.86	13.86	11.34	10.38

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5240MHz

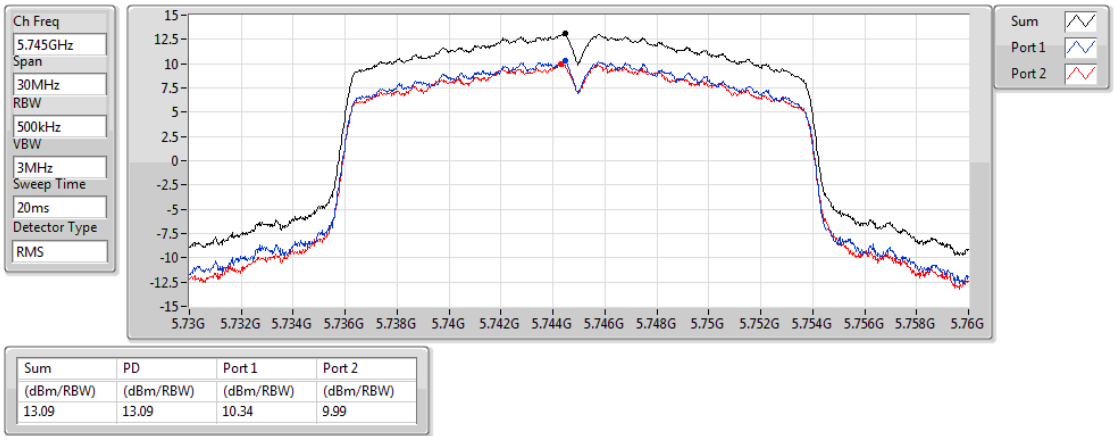
03/04/2018



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.00	14.00	11.43	10.55

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

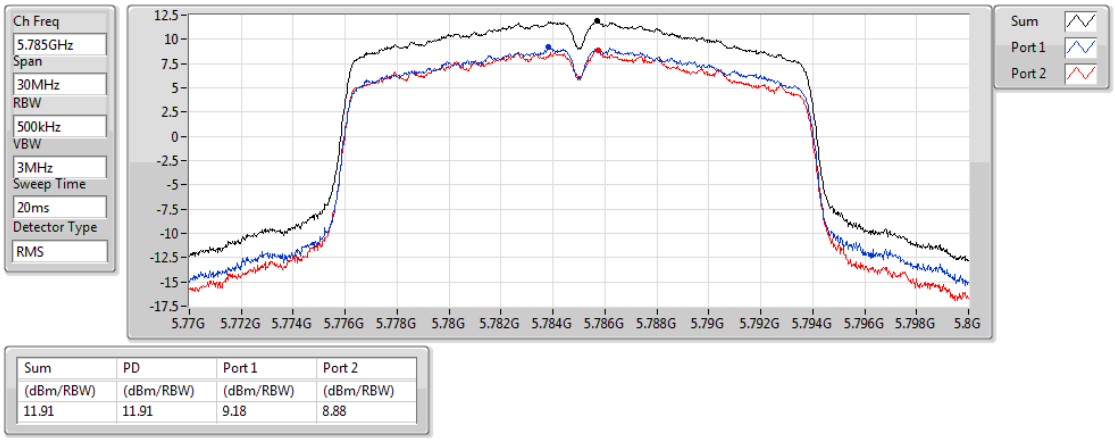
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.09	13.09	10.34	9.99

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

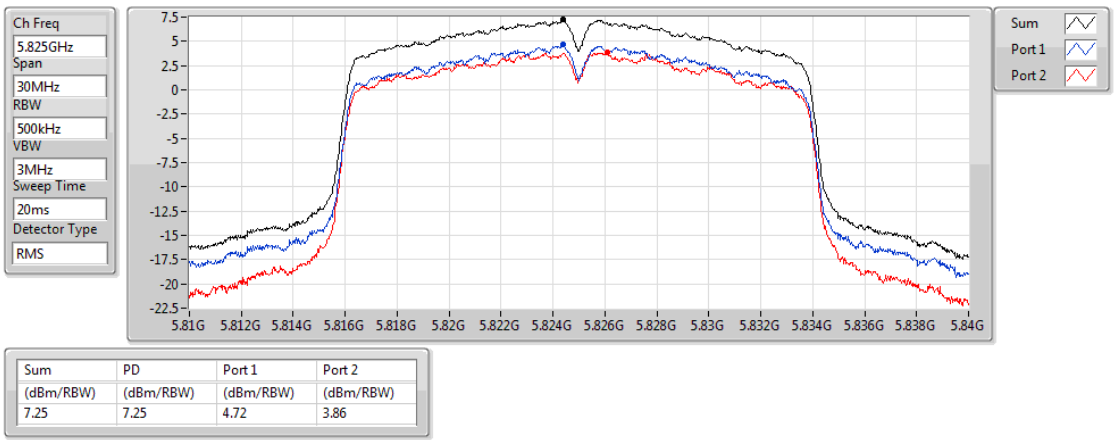
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.91	11.91	9.18	8.88

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

5825MHz

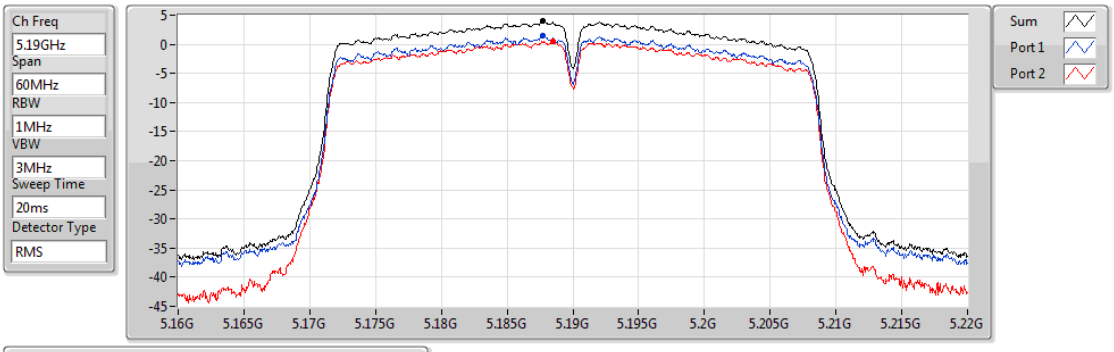


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.25	7.25	4.72	3.86

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

5190MHz

15/01/2018

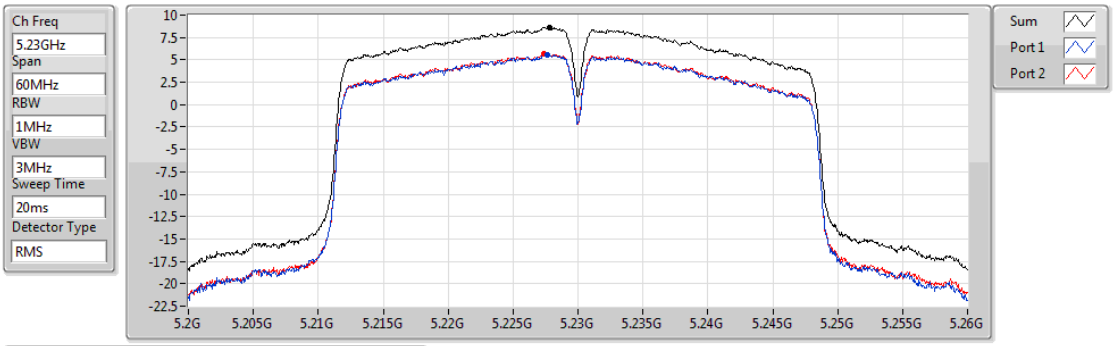


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.98	3.98	1.47	0.44

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

5230MHz

20/04/2018

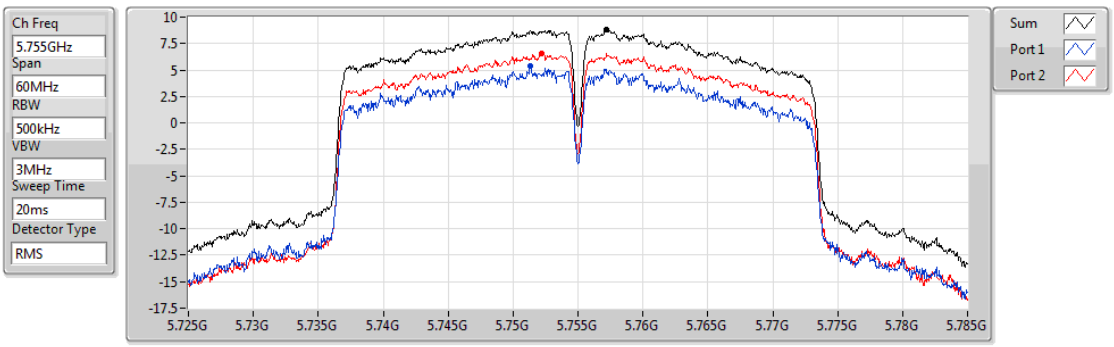


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.63	8.63	5.61	5.70

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

5755MHz

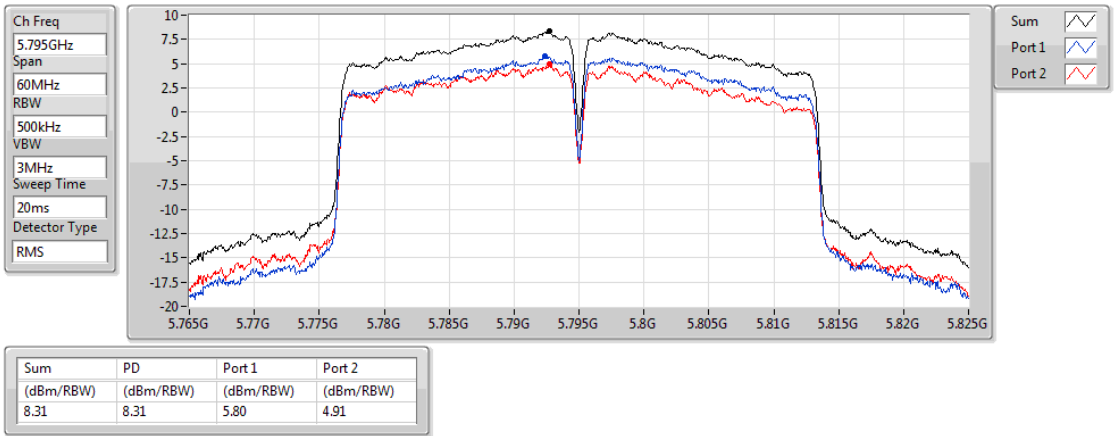
03/04/2018



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.86	8.86	5.40	6.57

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

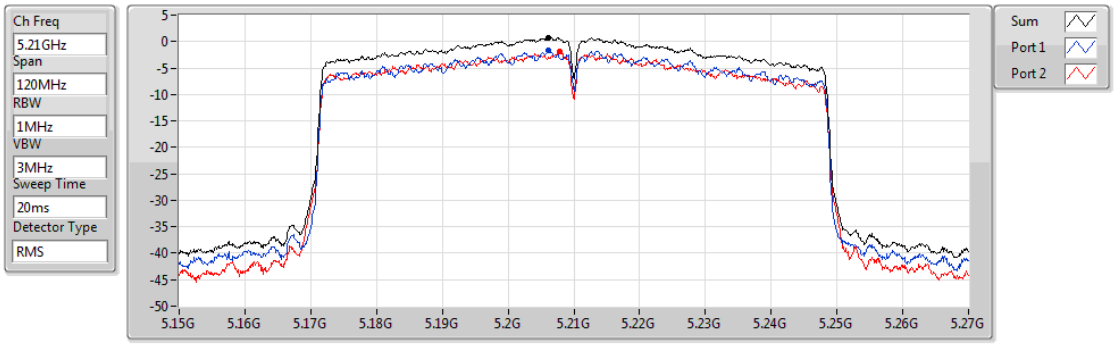
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.31	8.31	5.80	4.91

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

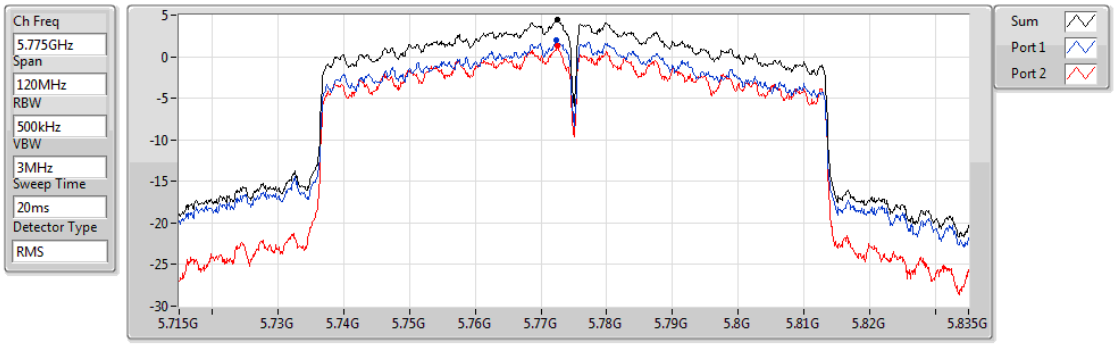
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.80	0.80	-1.64	-1.96

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

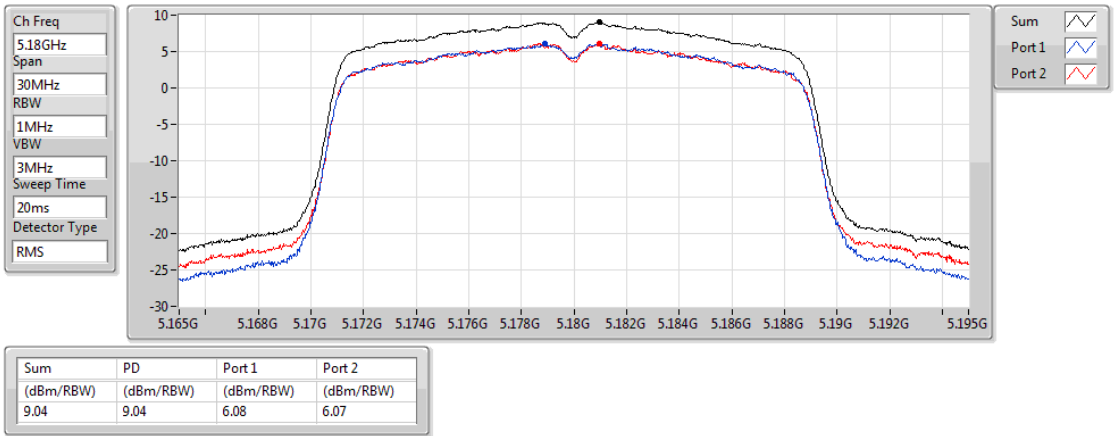
5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.52	4.52	2.04	1.25

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

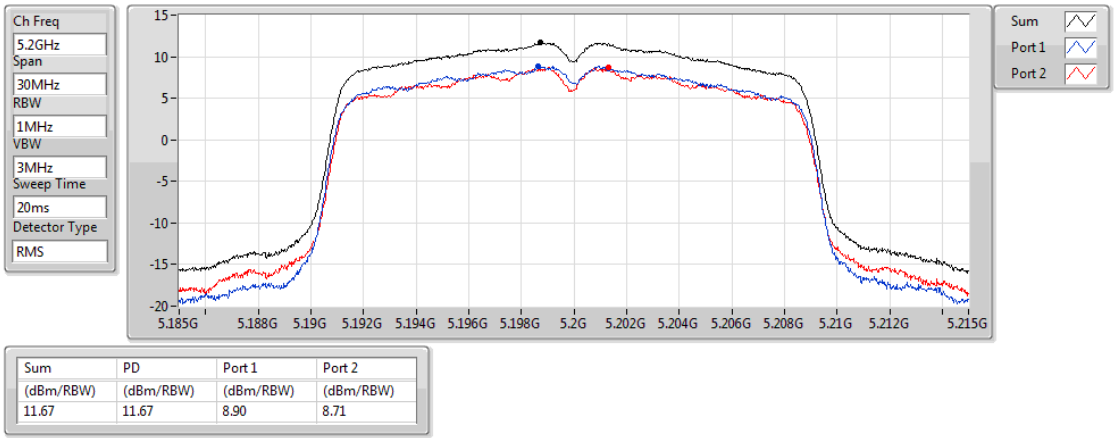
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.04	9.04	6.08	6.07

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

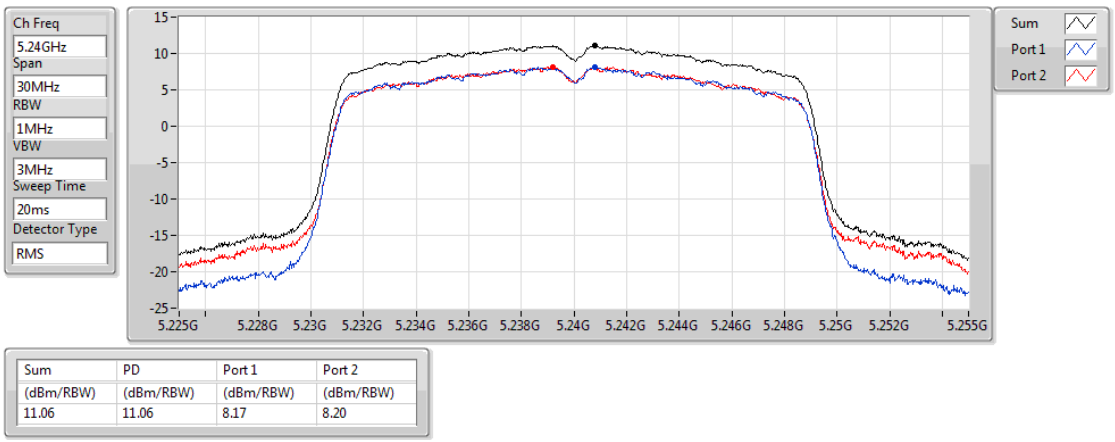
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.67	11.67	8.90	8.71

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

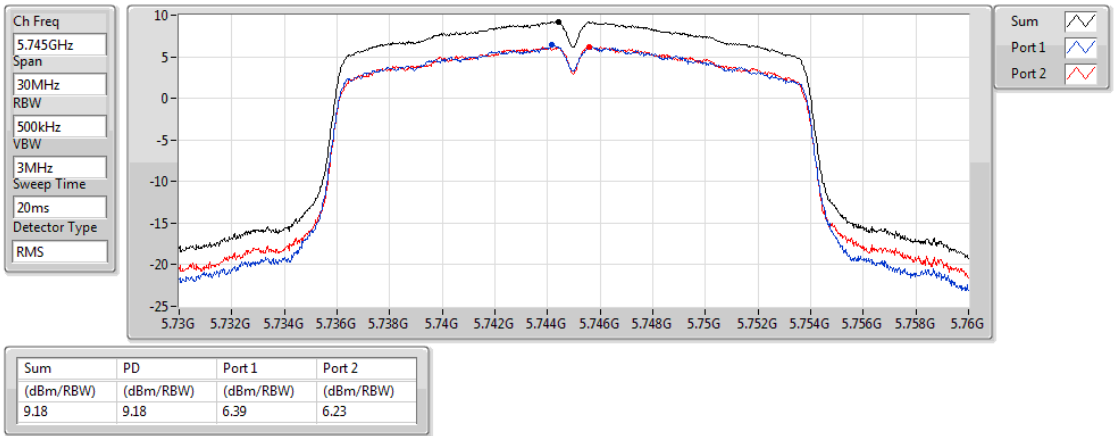
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.06	11.06	8.17	8.20

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

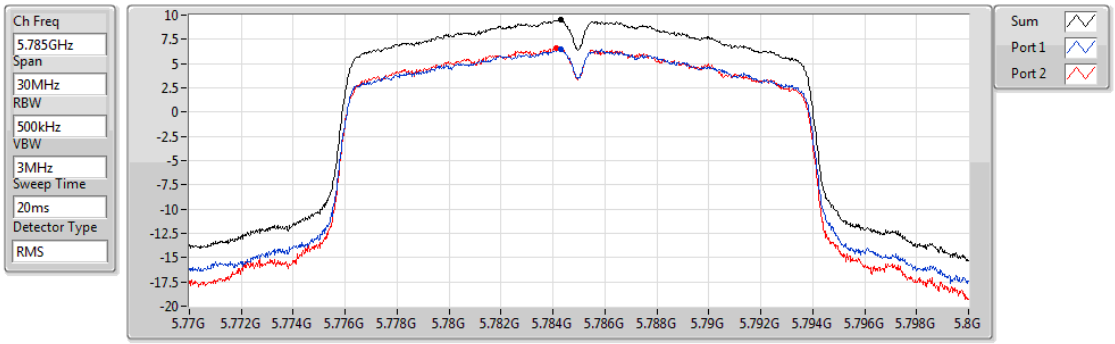
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.18	9.18	6.39	6.23

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

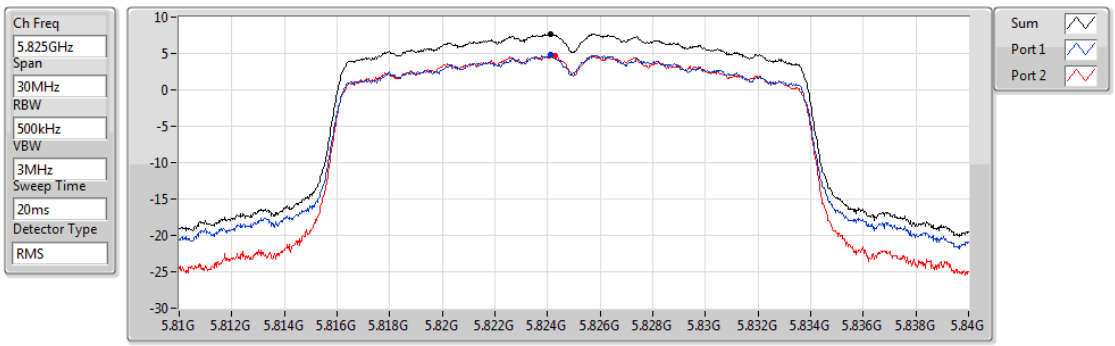
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.55	9.55	6.52	6.60

802.11ac VHT20-BF_Nss1,(MCS0)_2TX PSD

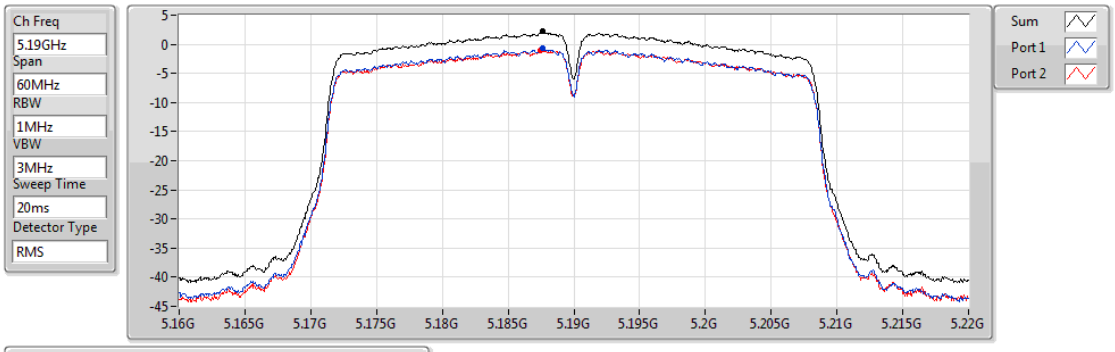
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.65	7.65	4.78	4.72

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

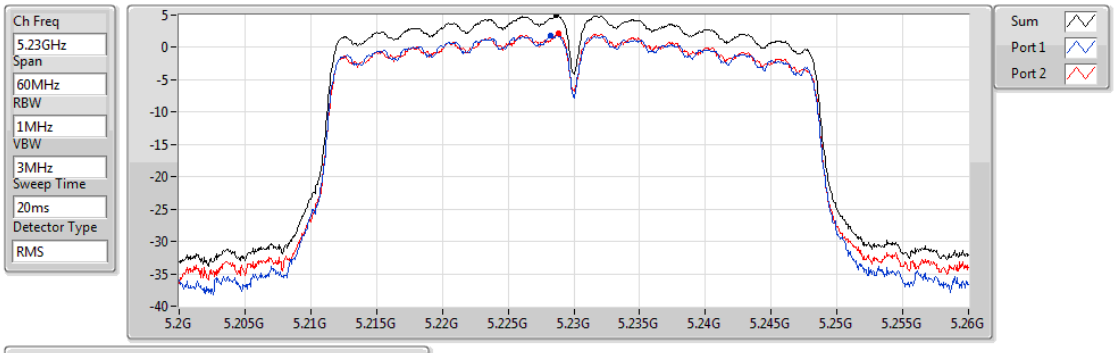
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.18	2.18	-0.61	-1.00

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

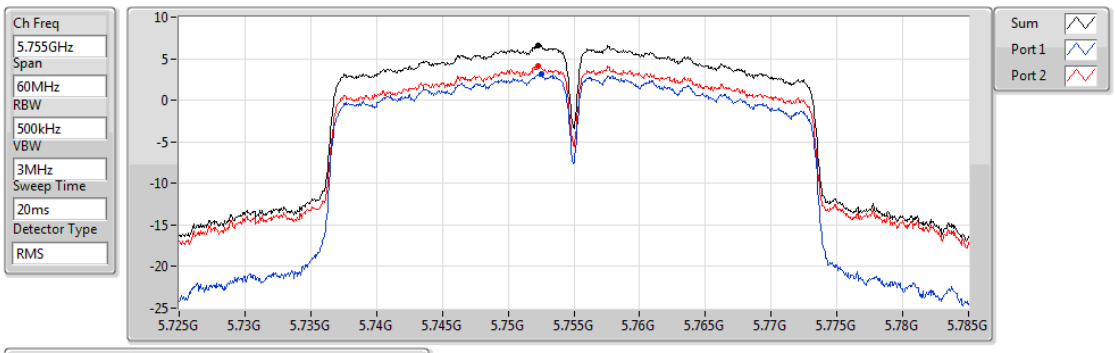
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.92	4.92	1.82	2.10

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

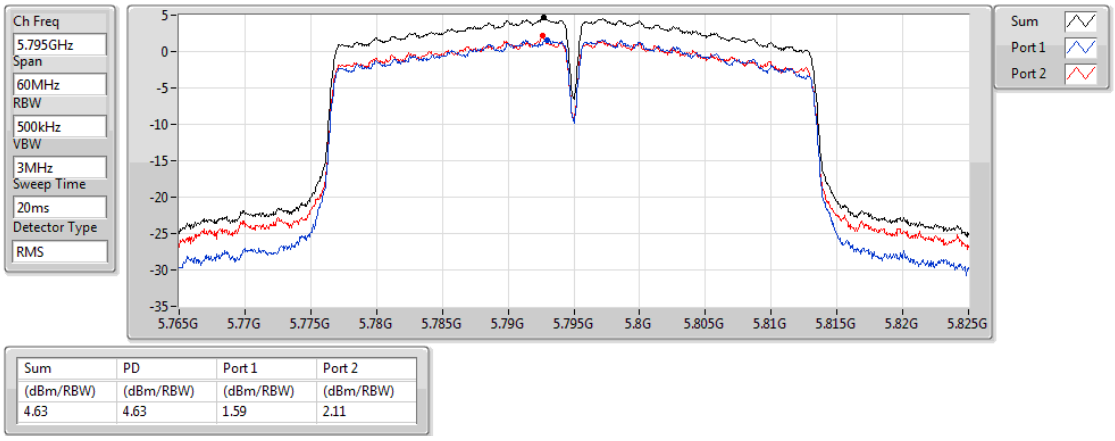
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.61	6.61	3.13	4.07

802.11ac VHT40-BF_Nss1,(MCS0)_2TX PSD

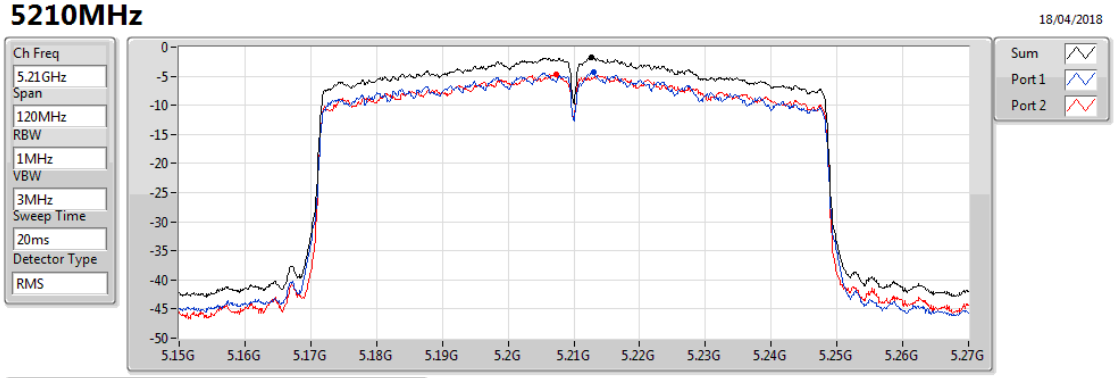
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.63	4.63	1.59	2.11

802.11ac VHT80-BF_Nss1,(MCS0)_2TX PSD

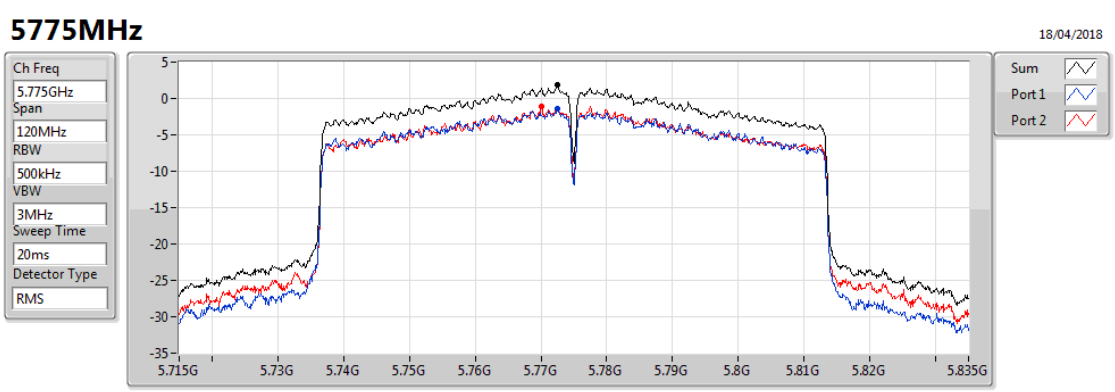
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.76	-1.76	-4.37	-4.71

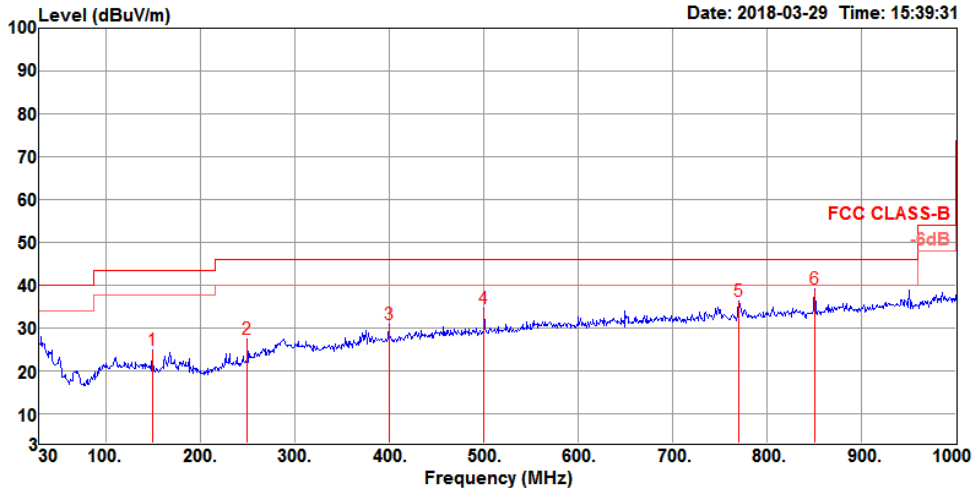
802.11ac VHT80-BF_Nss1,(MCS0)_2TX PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.81	1.81	-1.36	-1.03

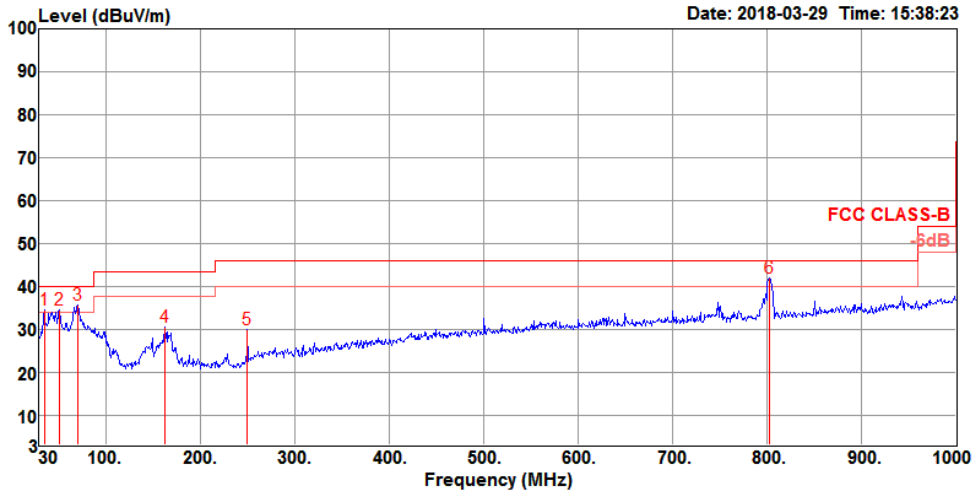
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	149.31	24.79	43.50	-18.71	38.97	1.88	16.46	32.52	200	284	Peak	HORIZONTAL
2	250.19	27.26	46.00	-18.74	38.55	2.63	18.54	32.46	100	237	Peak	HORIZONTAL
3	399.57	30.63	46.00	-15.37	37.96	3.54	21.58	32.45	100	248	Peak	HORIZONTAL
4	500.45	34.62	46.00	-11.38	39.71	4.12	23.28	32.49	150	201	Peak	HORIZONTAL
5	770.11	36.21	46.00	-9.79	37.41	5.46	25.72	32.38	150	5	Peak	HORIZONTAL
6	850.62	39.05	46.00	-6.95	39.00	5.87	26.24	32.06	100	243	Peak	HORIZONTAL

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

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	34.85	34.42	40.00	-5.58	44.51	0.66	21.77	32.52	100	113	Peak	VERTICAL
2	51.34	34.49	40.00	-5.51	52.38	1.01	13.60	32.50	100	105	Peak	VERTICAL
3	70.74	35.60	40.00	-4.40	54.69	1.17	12.27	32.53	100	338	Peak	VERTICAL
4	162.89	30.51	43.50	-12.99	45.24	1.90	15.88	32.51	100	359	Peak	VERTICAL
5	250.19	30.03	46.00	-15.97	41.32	2.63	18.54	32.46	100	0	Peak	VERTICAL
6	802.12	41.86	46.00	-4.14	42.69	5.64	25.85	32.32	150	360	Peak	VERTICAL

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

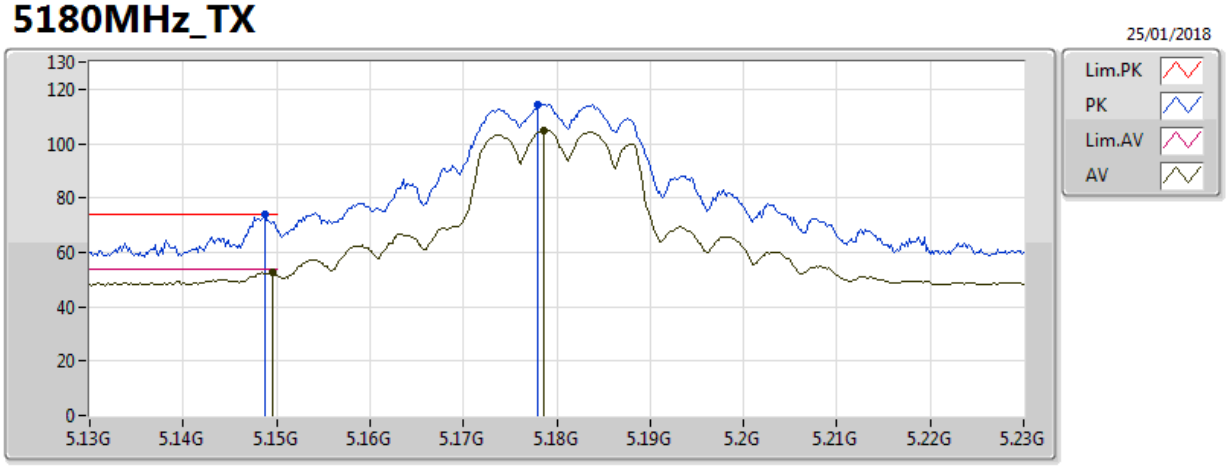
<For Non-Beamforming Mode>

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.149995G	53.99	54.00	-0.01	4.90	3	Vertical	57	1.49	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

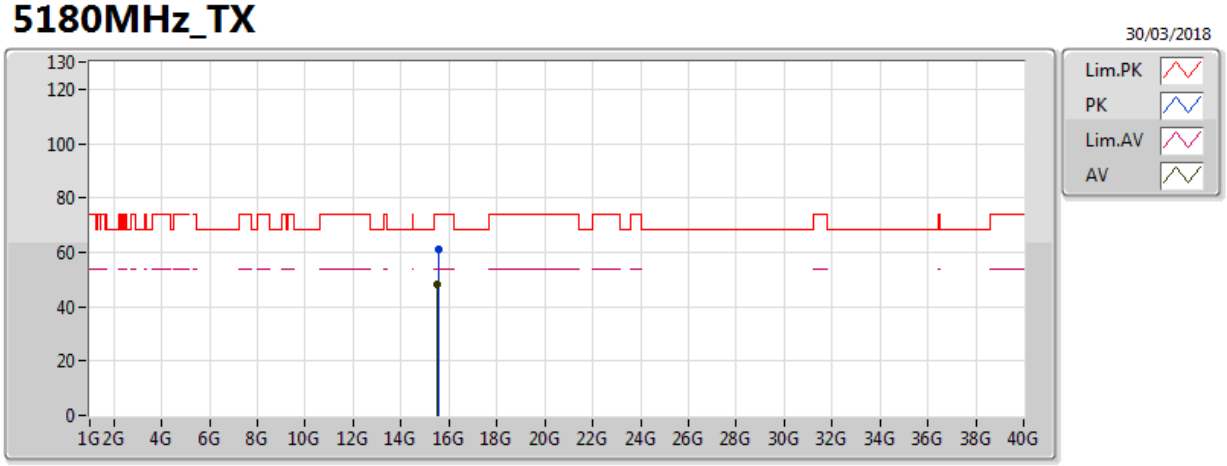


20180125
EUT Y_2TX_Dipole
Setting 0D
03-C-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1496G	52.46	54.00	-1.54	5.69	3	Vertical	250	2.02	-
AV	5.1786G	104.86	Inf	-Inf	5.80	3	Vertical	250	2.02	-
PK	5.1488G	73.69	74.00	-0.31	5.68	3	Vertical	250	2.02	-
PK	5.178G	114.50	Inf	-Inf	5.80	3	Vertical	250	2.02	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

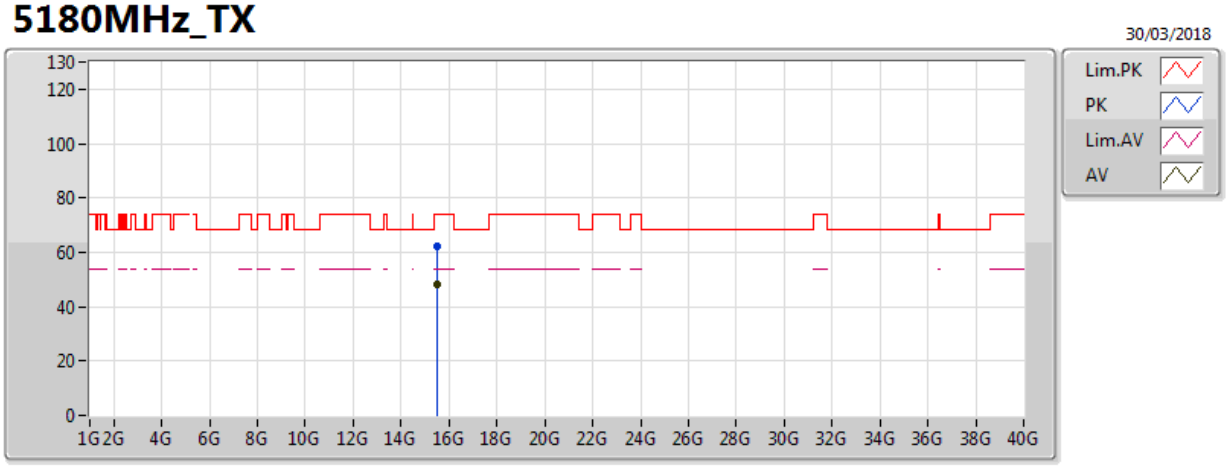


20180330
EUT Y_2TX_Dipole
Setting 0D
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.52848G	47.97	54.00	-6.03	15.95	3	Vertical	76	1.50	-
PK	15.54444G	60.95	74.00	-13.05	15.92	3	Vertical	76	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

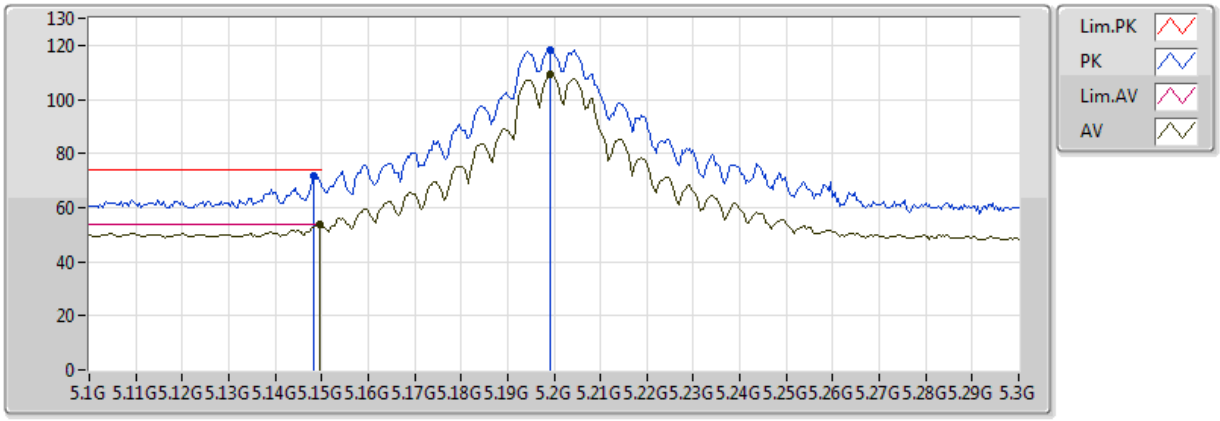


20180330
EUT Y_2TX_Dipole
Setting 0D
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.53658G	48.36	54.00	-5.64	15.94	3	Horizontal	298	2.18	-
PK	15.53208G	62.39	74.00	-11.61	15.94	3	Horizontal	298	2.18	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

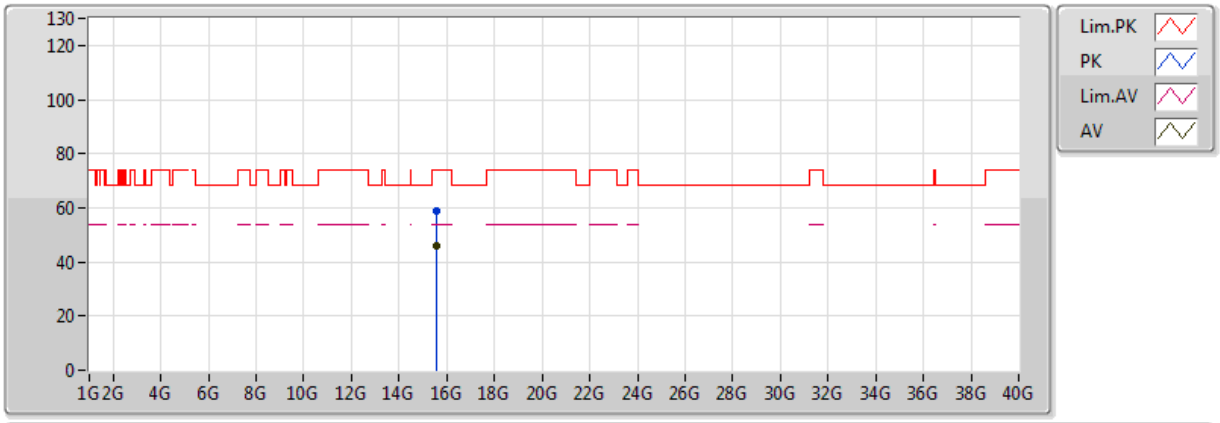


20180112
EUT Y_2TX
Setting 19
03-J-1-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1496G	53.73	54.00	-0.27	3.68	3	Vertical	240	1.59
AV	5.1992G	109.16	Inf	-Inf	3.70	3	Vertical	240	1.59
PK	5.1484G	71.62	74.00	-2.38	3.68	3	Vertical	240	1.59
PK	5.1992G	118.37	Inf	-Inf	3.70	3	Vertical	240	1.59

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX



20180112
EUT Y_2TX
Setting 19
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.60006G	45.84	54.00	-8.16	15.94	3	Vertical	84	2.09
PK	15.60018G	58.67	74.00	-15.33	15.94	3	Vertical	84	2.09

802.11a_Nss1,(6Mbps)_2TX

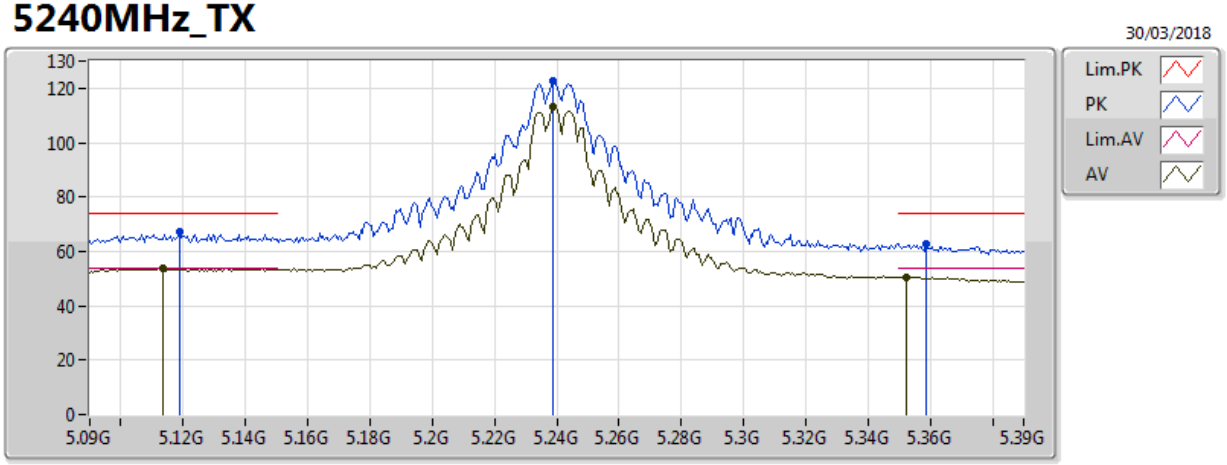
5200MHz_TX

20180112
EUT Y_2TX
Setting 19
03-J-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.60054G	50.56	54.00	-3.44	15.94	3	Horizontal	318	1.76
PK	15.60636G	63.98	74.00	-10.02	15.92	3	Horizontal	318	1.76

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

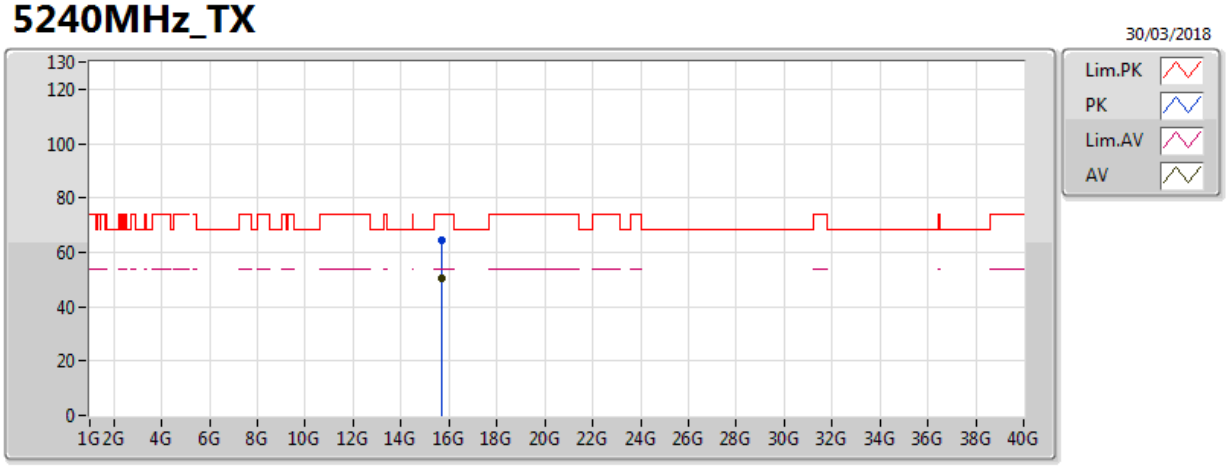


20180330
EUT Y_2TX_Dipole
Setting 19
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1134G	53.94	54.00	-0.06	4.86	3	Vertical	237	1.98	-
AV	5.2388G	113.13	Inf	-Inf	5.13	3	Vertical	237	1.98	-
AV	5.3522G	50.54	54.00	-3.46	5.61	3	Vertical	237	1.98	-
PK	5.1188G	67.52	74.00	-6.48	4.86	3	Vertical	237	1.98	-
PK	5.2388G	122.52	Inf	-Inf	5.13	3	Vertical	237	1.98	-
PK	5.3588G	62.73	74.00	-11.27	5.63	3	Vertical	237	1.98	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

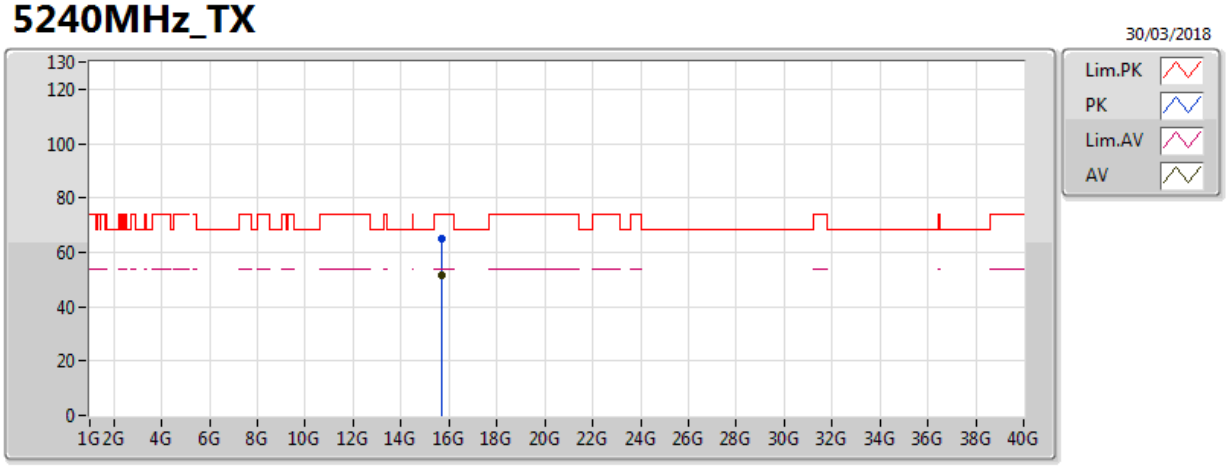


20180330
EUT Y_2TX_Dipole
Setting 19
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.71958G	50.60	54.00	-3.40	15.65	3	Vertical	82	1.76	-
PK	15.72386G	64.67	74.00	-9.33	15.64	3	Vertical	82	1.76	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

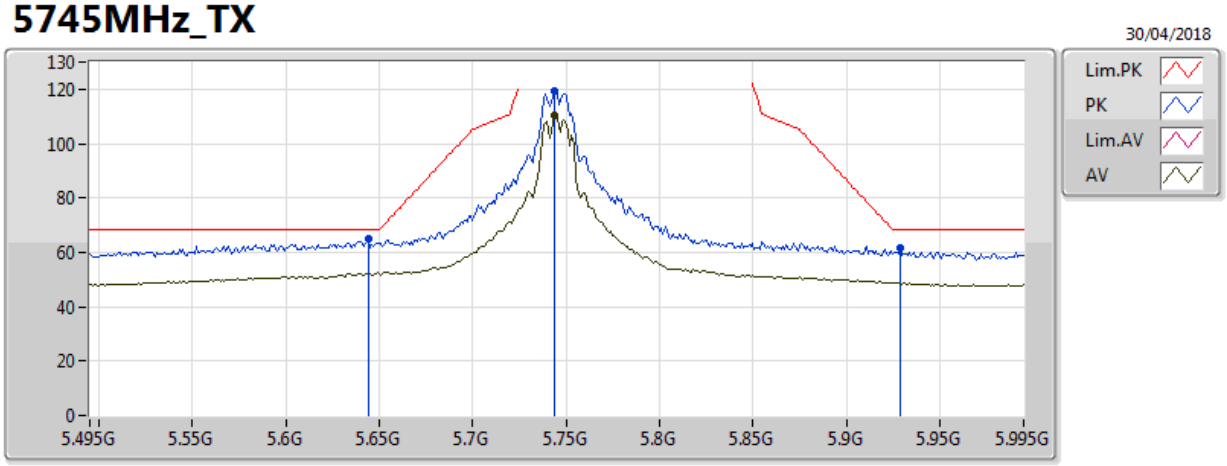


20180330
EUT Y_2TX_Dipole
Setting 19
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.71688G	51.53	54.00	-2.47	15.65	3	Horizontal	320	1.76	-
PK	15.71628G	64.86	74.00	-9.14	15.65	3	Horizontal	320	1.76	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

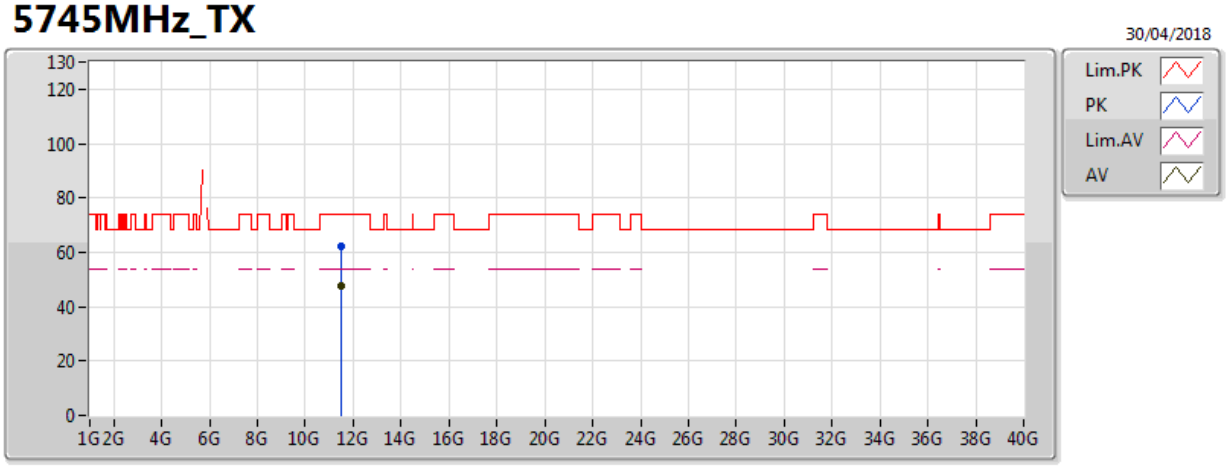


20180330
EUT Y_2TX_Dipole
Setting 0C
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.744G	110.27	Inf	-Inf	6.86	3	Vertical	242	2.42	-
PK	5.644G	64.86	68.20	-3.34	6.45	3	Vertical	242	2.42	-
PK	5.744G	119.13	Inf	-Inf	6.86	3	Vertical	242	2.42	-
PK	5.929G	61.41	68.20	-6.79	7.35	3	Vertical	242	2.42	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

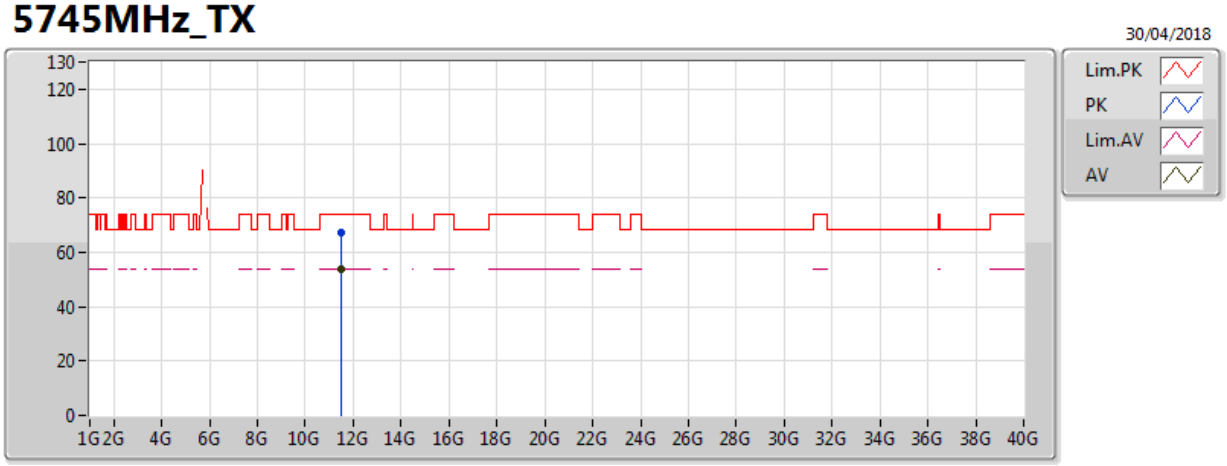


20180330
EUT Y_2TX_Dipole
Setting 0C
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.4912G	47.60	54.00	-6.40	13.32	3	Vertical	90	1.90	-
PK	11.48624G	62.10	74.00	-11.90	13.32	3	Vertical	90	1.90	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

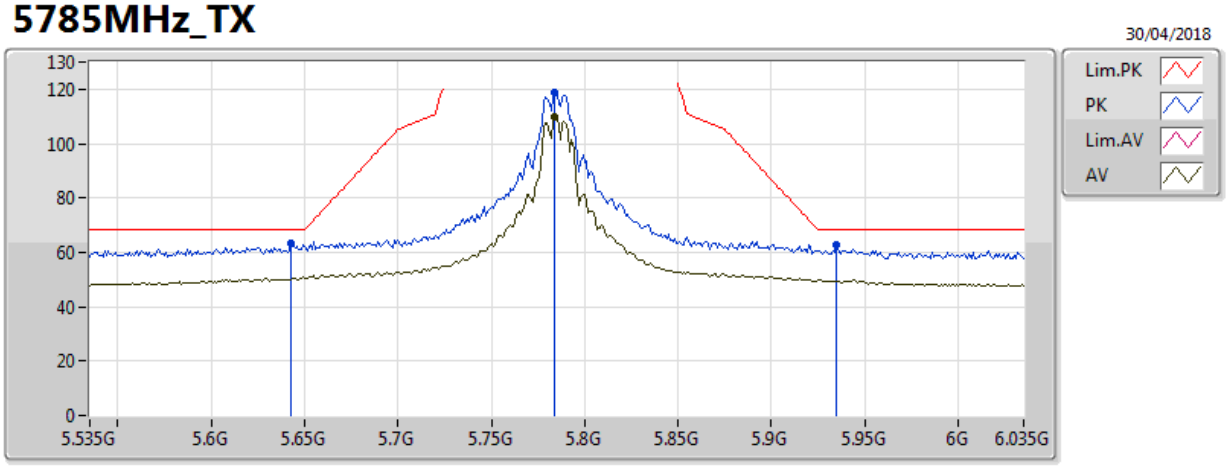


20180330
EUT Y_2TX_Dipole
Setting 0C
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.49192G	53.77	54.00	-0.23	13.32	3	Horizontal	19	2.33	-
PK	11.48628G	67.32	74.00	-6.68	13.32	3	Horizontal	19	2.33	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

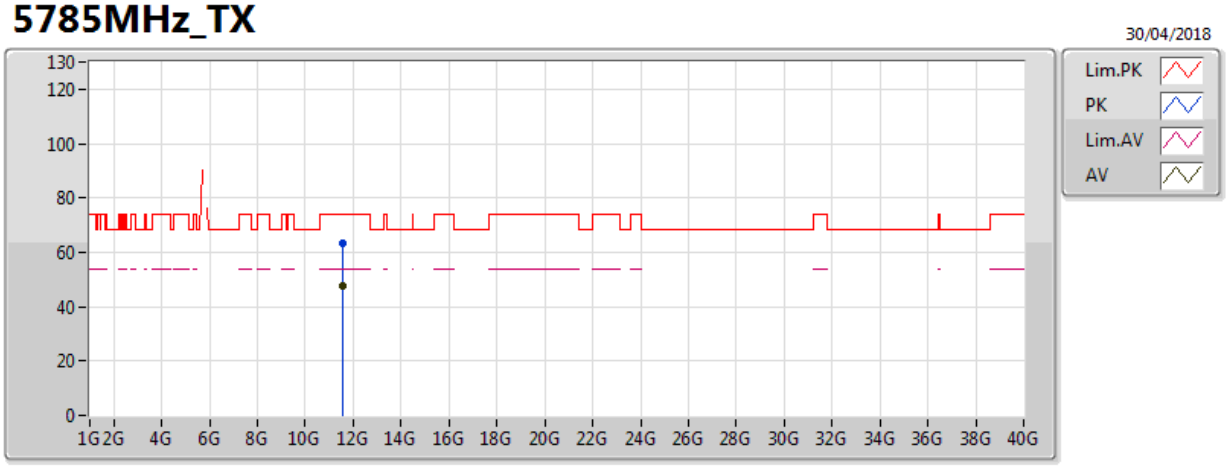


20180330
EUT Y_2TX_Dipole
Setting 0B
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.784G	109.55	Inf	-Inf	7.03	3	Vertical	285	1.66	-
PK	5.643G	63.15	68.20	-5.05	6.45	3	Vertical	285	1.66	-
PK	5.784G	118.80	Inf	-Inf	7.03	3	Vertical	285	1.66	-
PK	5.935G	62.76	68.20	-5.44	7.36	3	Vertical	285	1.66	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

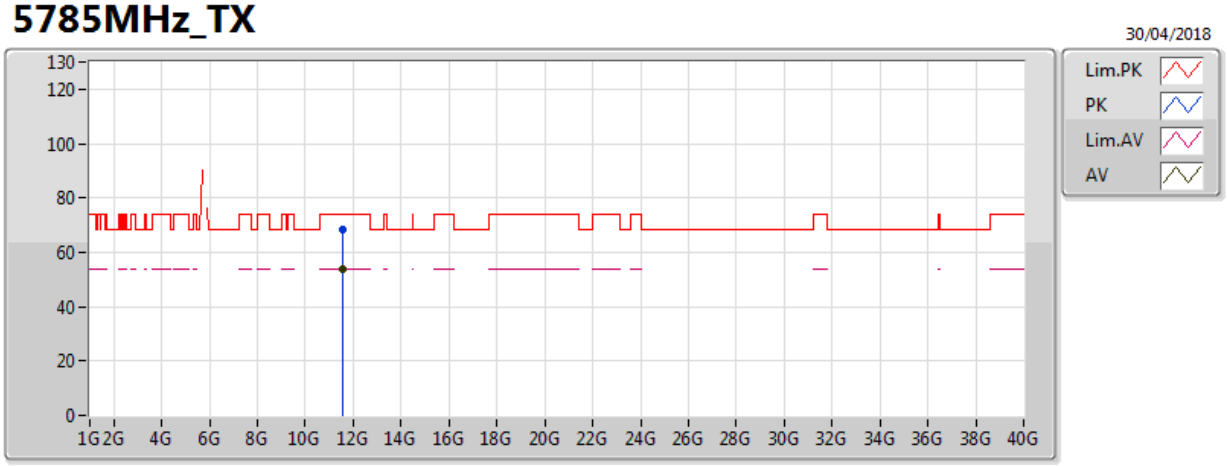


20180330
EUT Y_2TX_Dipole
Setting 0B
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.57108G	47.54	54.00	-6.46	13.33	3	Vertical	93	1.87	-
PK	11.57036G	63.15	74.00	-10.85	13.33	3	Vertical	93	1.87	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

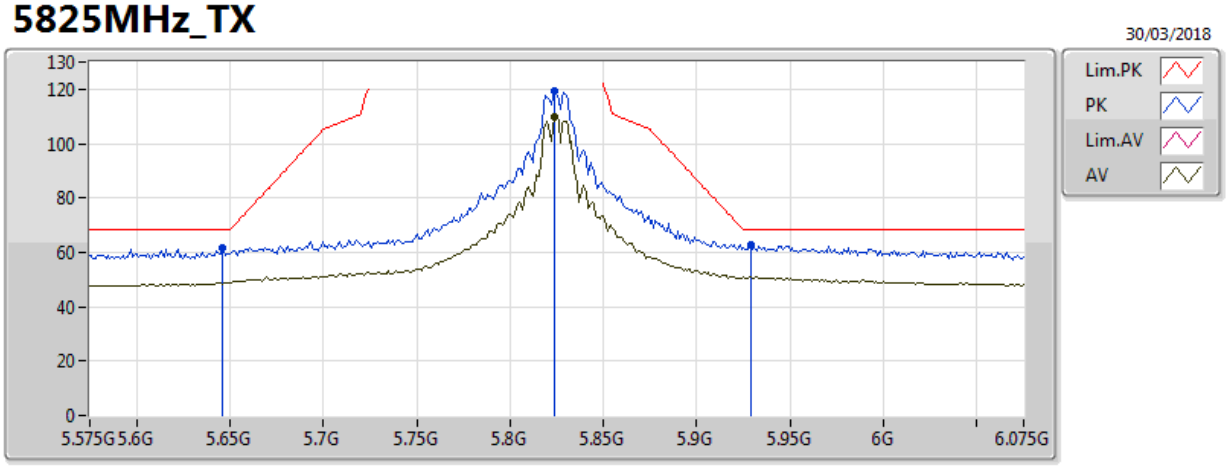


20180330
EUT Y_2TX_Dipole
Setting 0B
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5719G	53.66	54.00	-0.34	13.33	3	Horizontal	146	2.31	-
PK	11.567G	68.24	74.00	-5.76	13.33	3	Horizontal	146	2.31	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

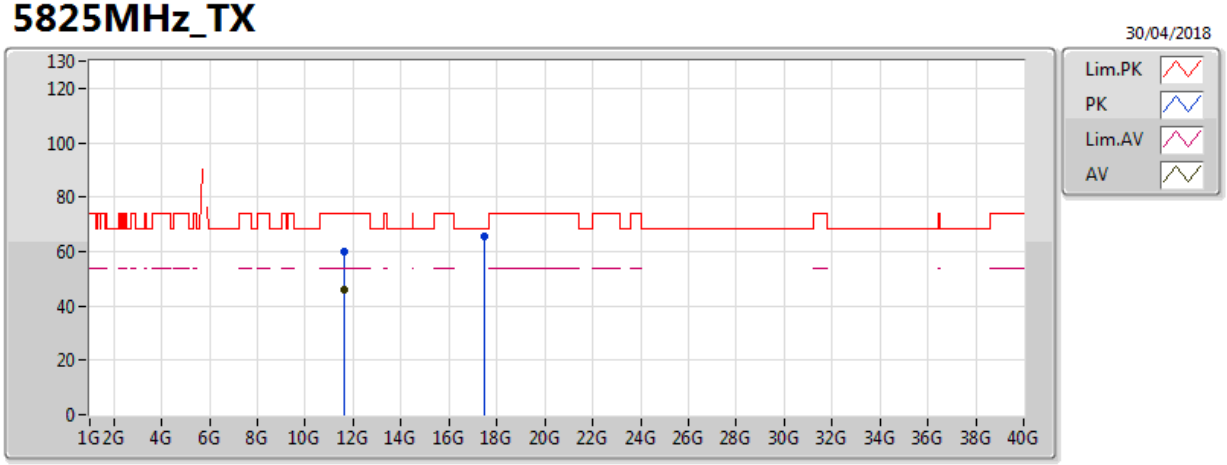


20180330
EUT Y_2TX_Dipole
Setting 0C
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.824G	110.04	Inf	-Inf	7.15	3	Vertical	284	1.63	-
PK	5.646G	61.75	68.20	-6.45	6.46	3	Vertical	284	1.63	-
PK	5.824G	119.34	Inf	-Inf	7.15	3	Vertical	284	1.63	-
PK	5.929G	62.87	68.20	-5.33	7.35	3	Vertical	284	1.63	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

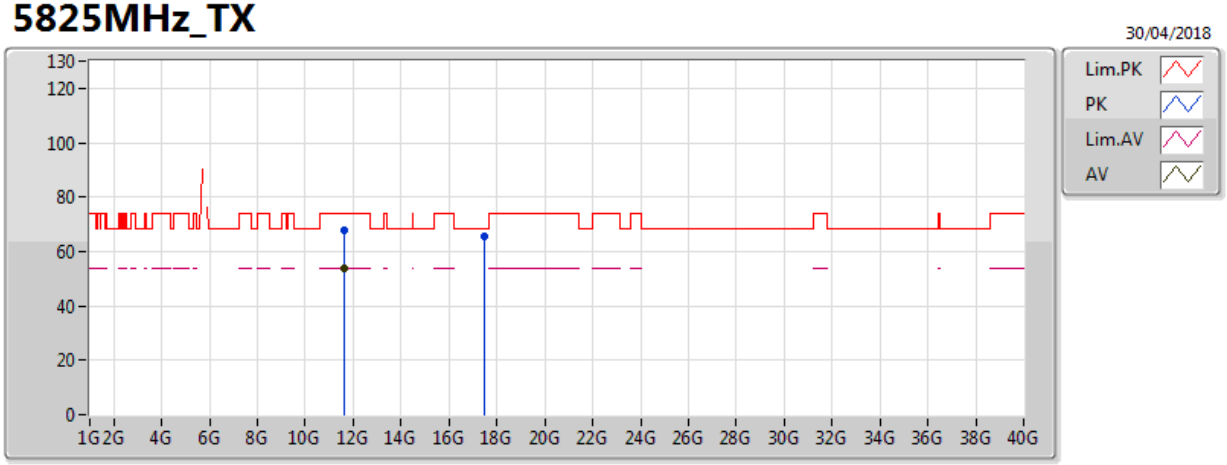


20180125
EUT Y_2TX_Dipole
Setting 0C
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.6514G	46.08	54.00	-7.92	14.59	3	Vertical	88	1.78	-
PK	11.6516G	60.14	74.00	-13.86	14.59	3	Vertical	88	1.78	-
PK	17.4796G	65.78	68.20	-2.42	20.74	3	Vertical	62	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

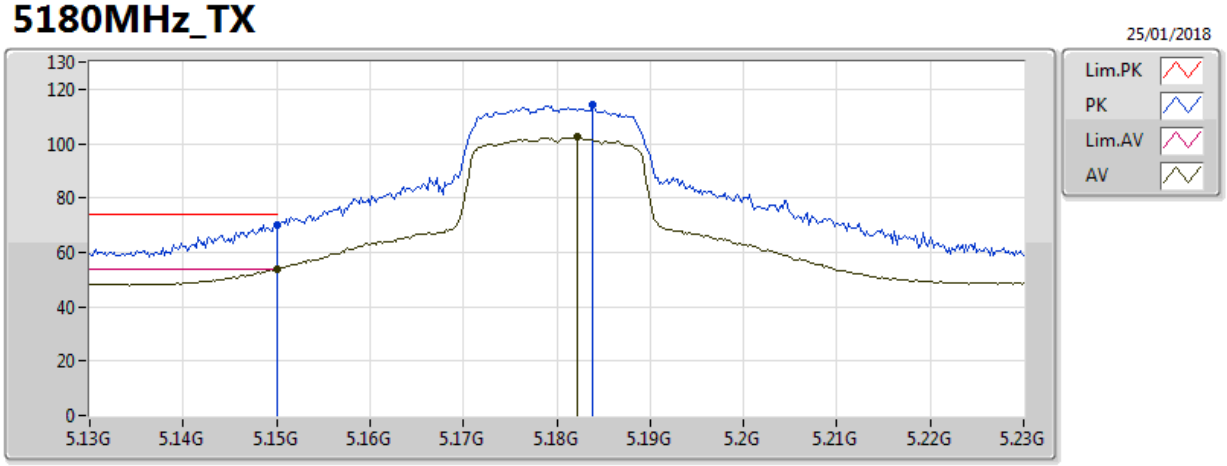


20180125
EUT Y_2TX_Dipole
Setting 0C
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.6512G	53.64	54.00	-0.36	14.59	3	Horizontal	22	2.31	-
PK	11.652G	68.00	74.00	-6.00	14.59	3	Horizontal	22	2.31	-
PK	17.4778G	65.84	68.20	-2.36	20.73	3	Horizontal	25	1.70	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

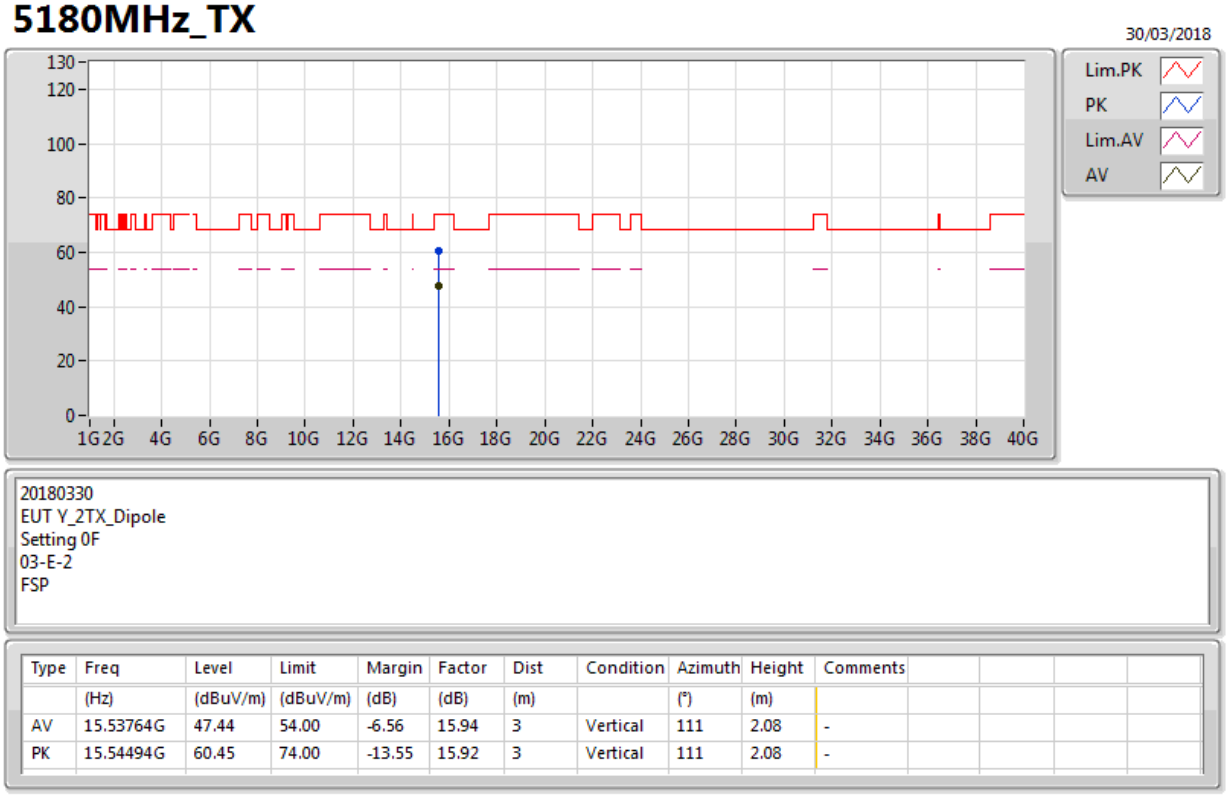


20180125
EUT Y_2TX_Dipole
Setting 0F
03-C-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.149995G	53.67	54.00	-0.33	5.69	3	Vertical	250	2.04	-
AV	5.1822G	102.53	Inf	-Inf	5.81	3	Vertical	250	2.04	-
PK	5.149995G	70.20	74.00	-3.80	5.69	3	Vertical	250	2.04	-
PK	5.1838G	114.14	Inf	-Inf	5.82	3	Vertical	250	2.04	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

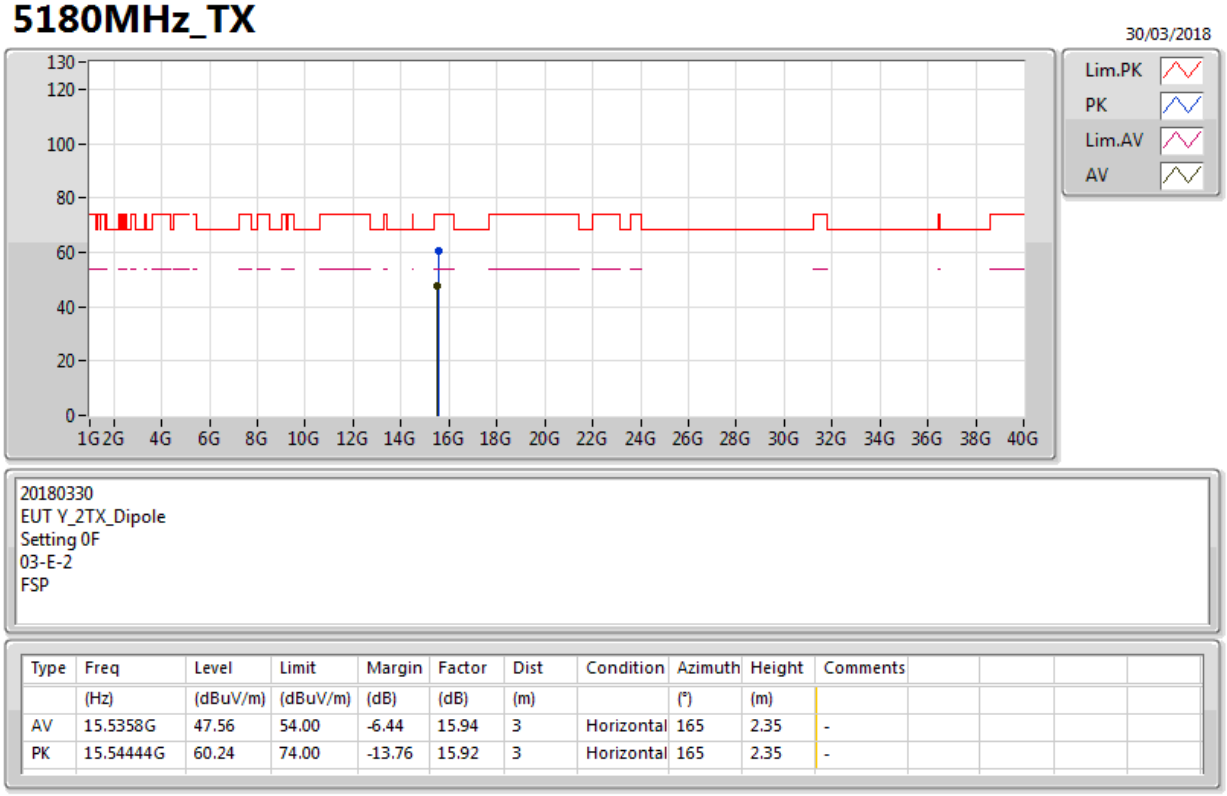


20180330
EUT Y_2TX_Dipole
Setting 0F
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.53764G	47.44	54.00	-6.56	15.94	3	Vertical	111	2.08	-
PK	15.54494G	60.45	74.00	-13.55	15.92	3	Vertical	111	2.08	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

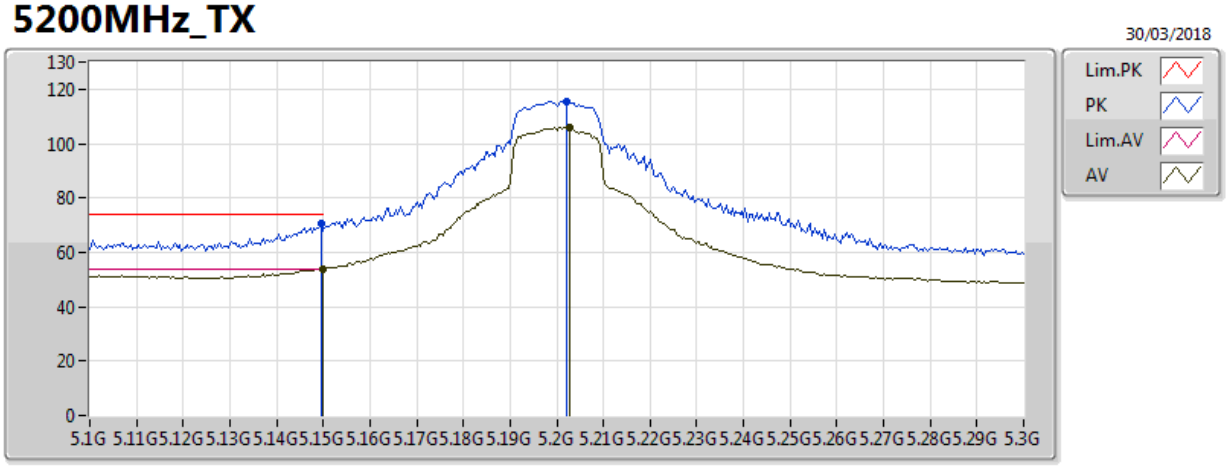


20180330
EUT Y_2TX_Dipole
Setting 0F
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.5358G	47.56	54.00	-6.44	15.94	3	Horizontal	165	2.35	-
PK	15.54444G	60.24	74.00	-13.76	15.92	3	Horizontal	165	2.35	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

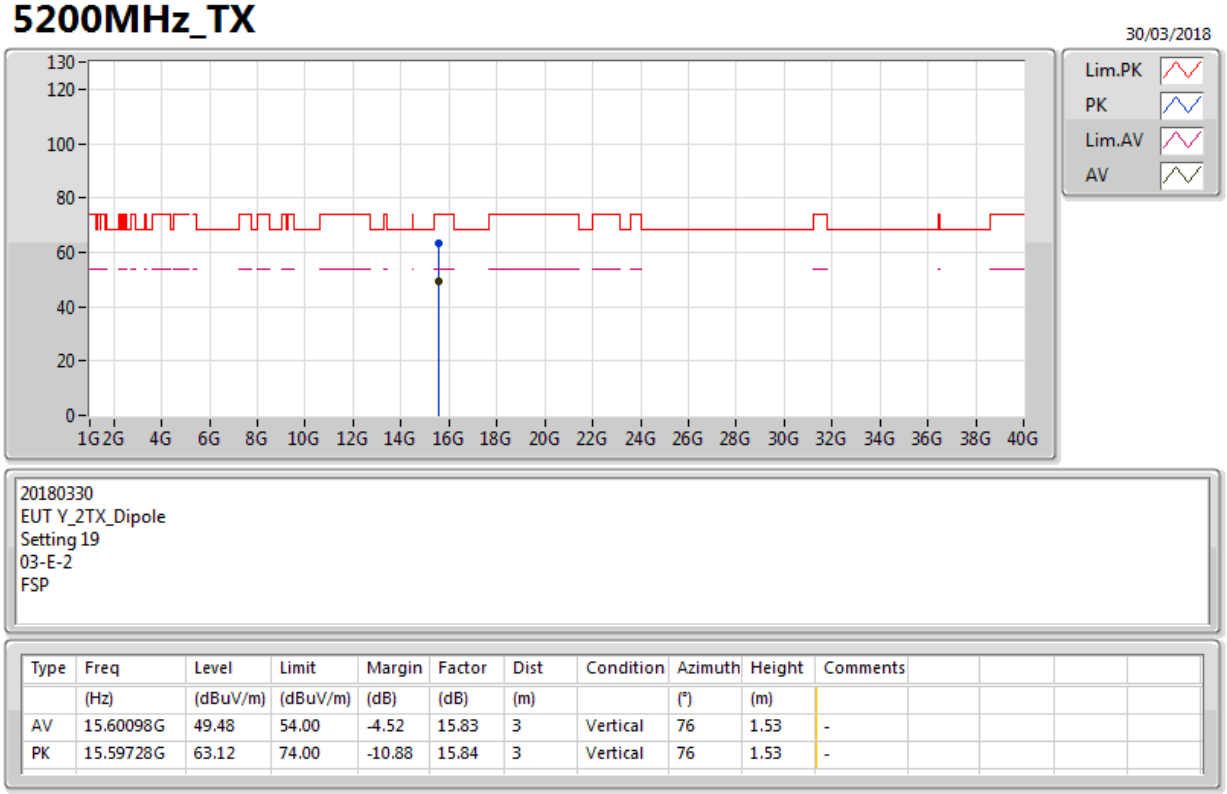


20180330
EUT Y_2TX_Dipole
Setting 19
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.149995G	53.99	54.00	-0.01	4.90	3	Vertical	57	1.49	-
AV	5.2028G	105.77	Inf	-Inf	4.97	3	Vertical	57	1.49	-
PK	5.1496G	70.47	74.00	-3.53	4.90	3	Vertical	57	1.49	-
PK	5.202G	115.58	Inf	-Inf	4.97	3	Vertical	57	1.49	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

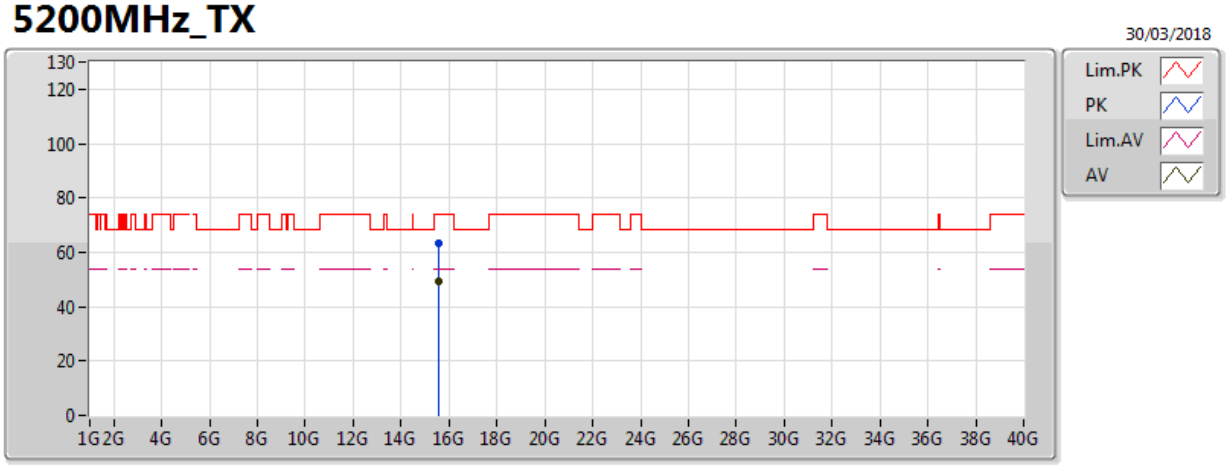


20180330
EUT Y_2TX_Dipole
Setting 19
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.60098G	49.48	54.00	-4.52	15.83	3	Vertical	76	1.53	-
PK	15.59728G	63.12	74.00	-10.88	15.84	3	Vertical	76	1.53	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

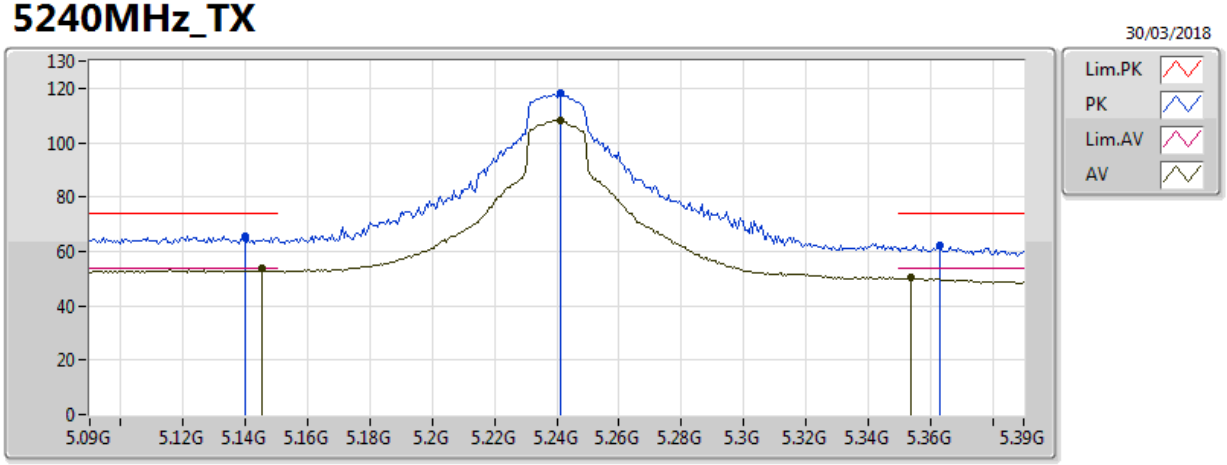


20180330
EUT Y_2TX_Dipole
Setting 19
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.5964G	49.09	54.00	-4.91	15.84	3	Horizontal	116	1.85	-
PK	15.59822G	63.47	74.00	-10.53	15.84	3	Horizontal	116	1.85	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

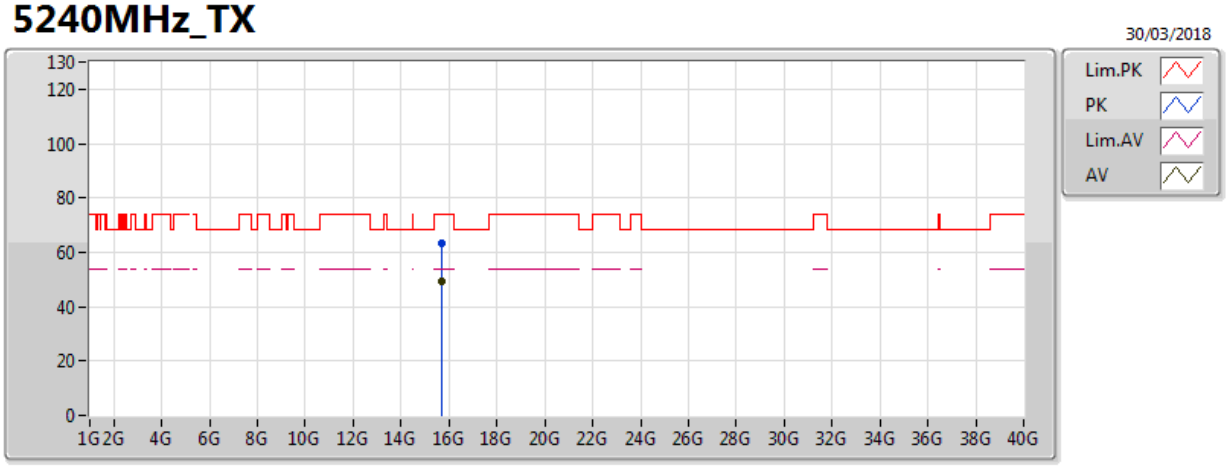


20180330
EUT Y_2TX_Dipole
Setting 1C
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1452G	53.56	54.00	-0.44	4.89	3	Vertical	244	1.84	-
AV	5.2412G	108.06	Inf	-Inf	5.15	3	Vertical	244	1.84	-
AV	5.354G	50.45	54.00	-3.55	5.62	3	Vertical	244	1.84	-
PK	5.1398G	65.77	74.00	-8.23	4.89	3	Vertical	244	1.84	-
PK	5.2412G	118.13	Inf	-Inf	5.15	3	Vertical	244	1.84	-
PK	5.363G	62.07	74.00	-11.93	5.65	3	Vertical	244	1.84	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

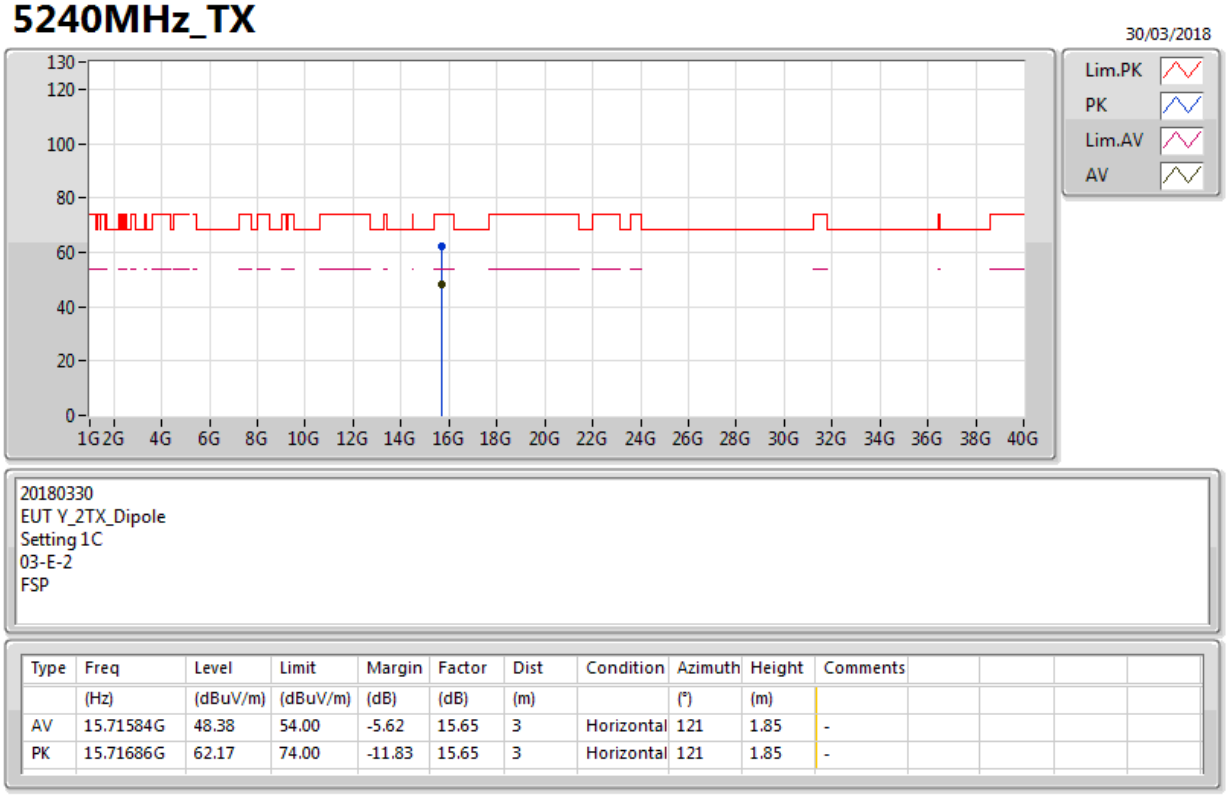


20180330
EUT Y_2TX_Dipole
Setting 1C
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.71882G	49.30	54.00	-4.70	15.65	3	Vertical	85	1.70	-
PK	15.71744G	63.57	74.00	-10.43	15.65	3	Vertical	85	1.70	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

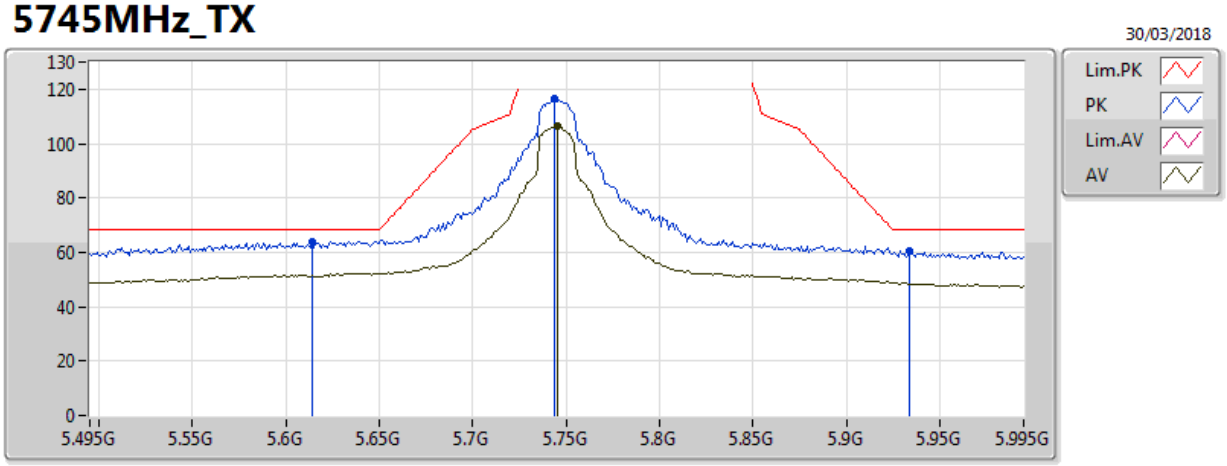


20180330
EUT Y_2TX_Dipole
Setting 1C
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.71584G	48.38	54.00	-5.62	15.65	3	Horizontal	121	1.85	-
PK	15.71686G	62.17	74.00	-11.83	15.65	3	Horizontal	121	1.85	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

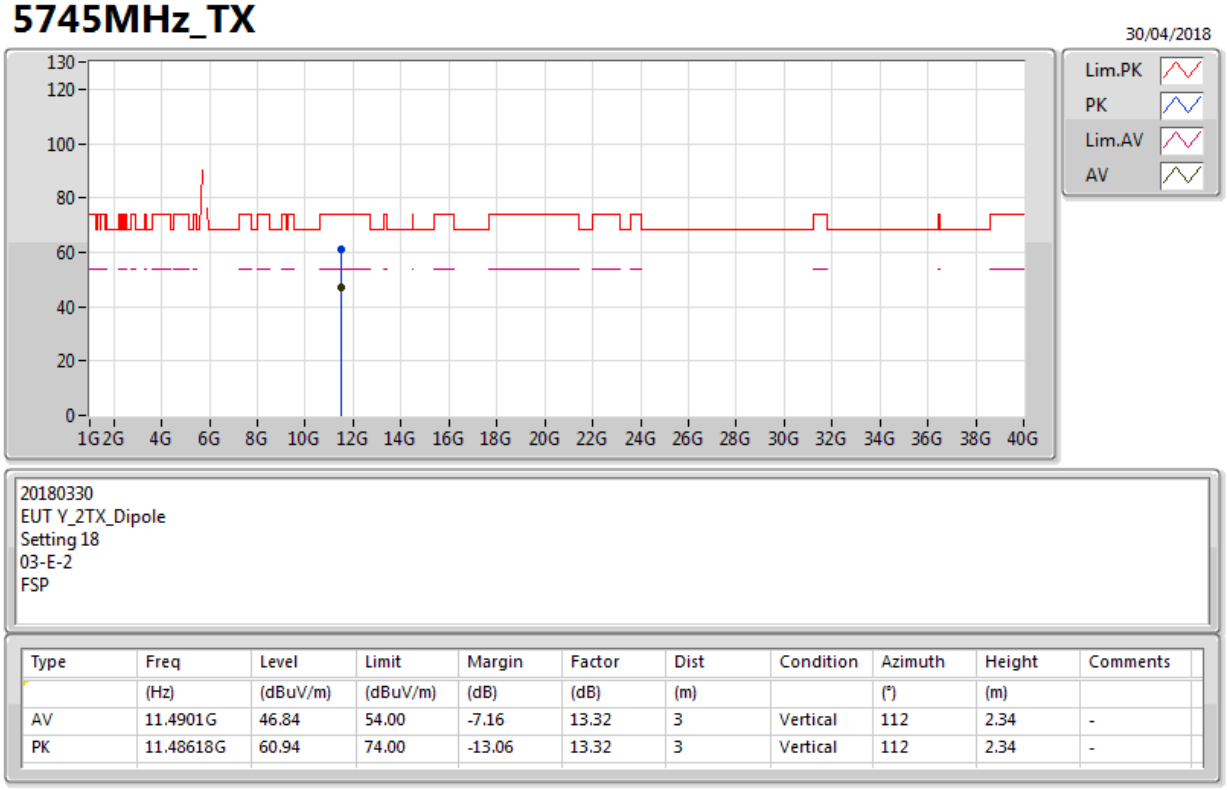


20180330
EUT Y_2TX_Dipole
Setting 18
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.745G	106.49	Inf	-Inf	6.87	3	Vertical	246	1.53	-
PK	5.614G	64.08	68.20	-4.12	6.33	3	Vertical	246	1.53	-
PK	5.744G	116.57	Inf	-Inf	6.86	3	Vertical	246	1.53	-
PK	5.934G	60.46	68.20	-7.74	7.35	3	Vertical	246	1.53	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

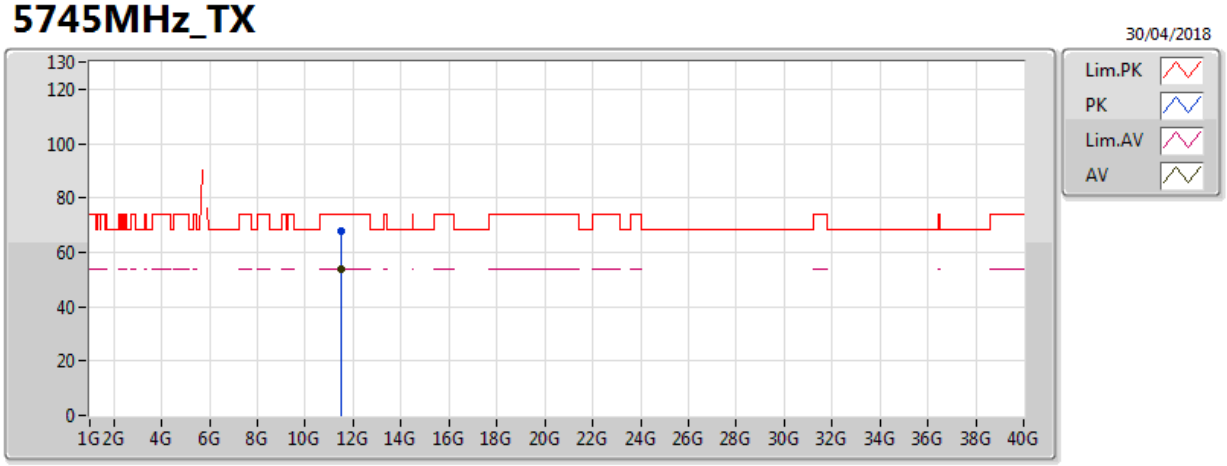


20180330
EUT Y_2TX_Dipole
Setting 18
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.4901G	46.84	54.00	-7.16	13.32	3	Vertical	112	2.34	-
PK	11.48618G	60.94	74.00	-13.06	13.32	3	Vertical	112	2.34	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

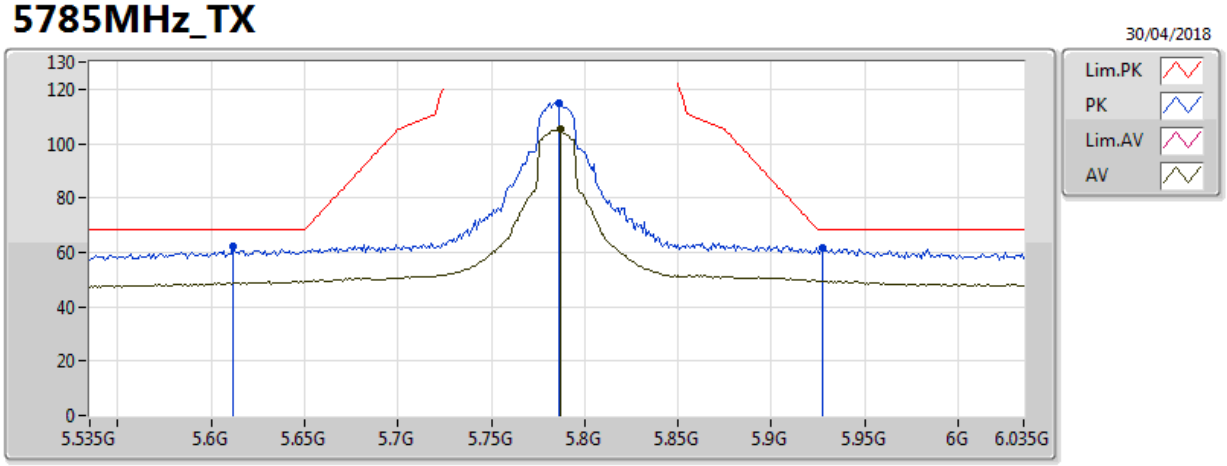


20180330
EUT Y_2TX_Dipole
Setting 18
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.48986G	53.66	54.00	-0.34	13.32	3	Horizontal	152	1.67	-
PK	11.491G	67.98	74.00	-6.02	13.32	3	Horizontal	152	1.67	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

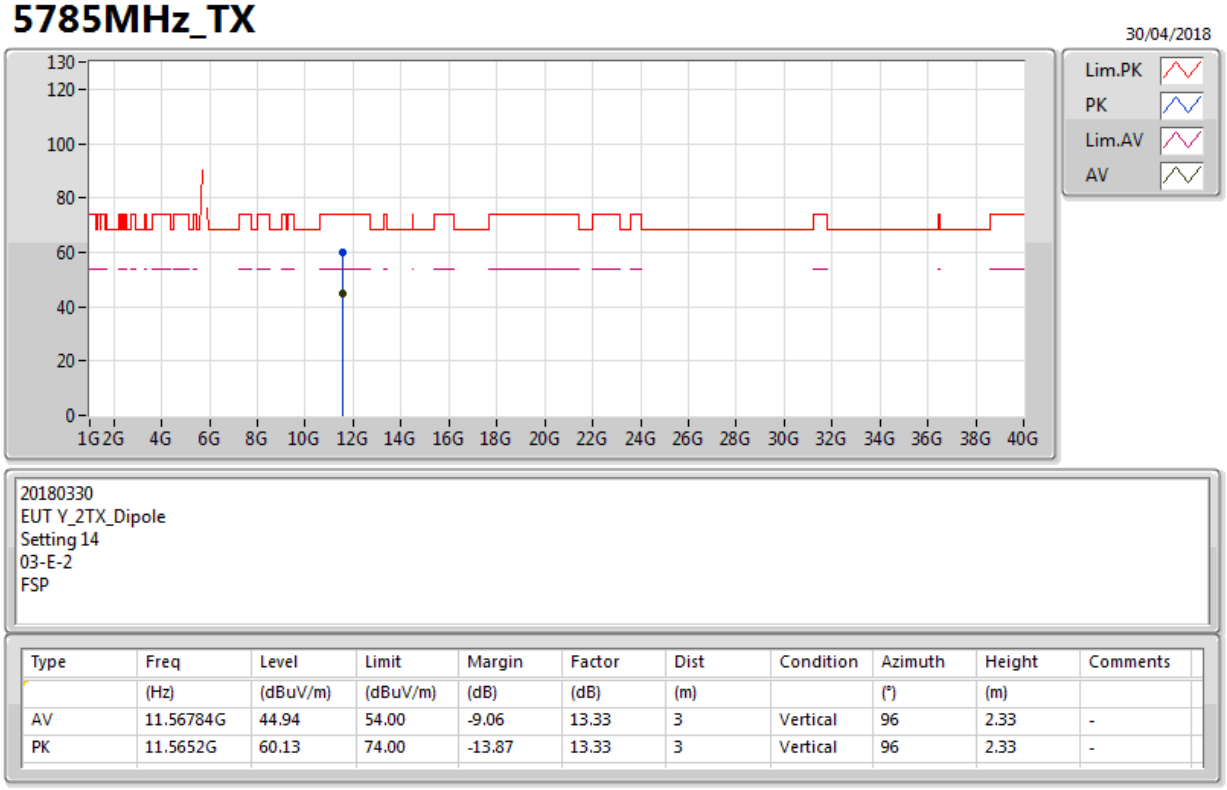


20180330
EUT Y_2TX_Dipole
Setting 14
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.787G	105.25	Inf	-Inf	7.05	3	Vertical	291	1.61	-
PK	5.612G	62.12	68.20	-6.08	6.32	3	Vertical	291	1.61	-
PK	5.786G	114.78	Inf	-Inf	7.04	3	Vertical	291	1.61	-
PK	5.927G	61.42	68.20	-6.78	7.34	3	Vertical	291	1.61	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

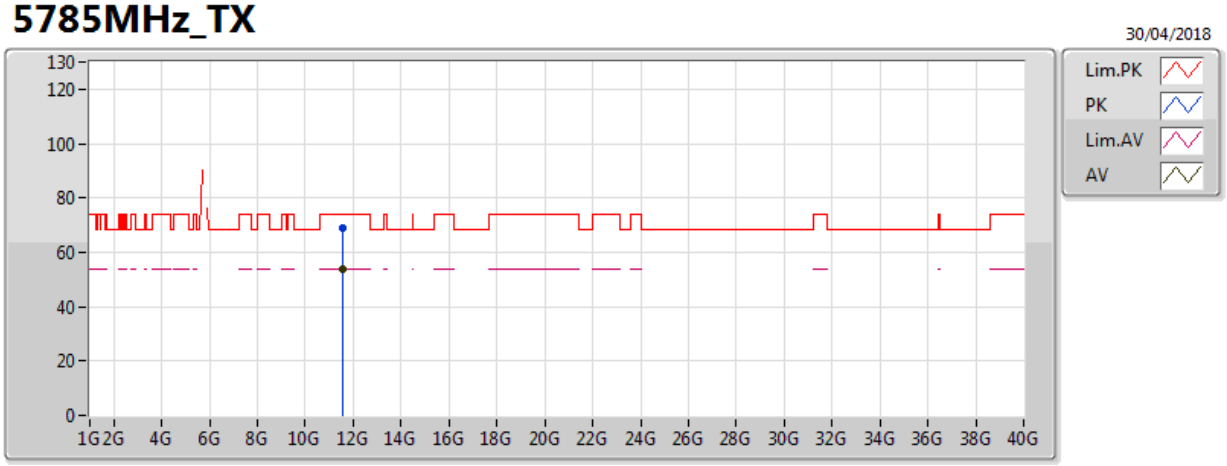


20180330
EUT Y_2TX_Dipole
Setting 14
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.56784G	44.94	54.00	-9.06	13.33	3	Vertical	96	2.33	-
PK	11.5652G	60.13	74.00	-13.87	13.33	3	Vertical	96	2.33	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

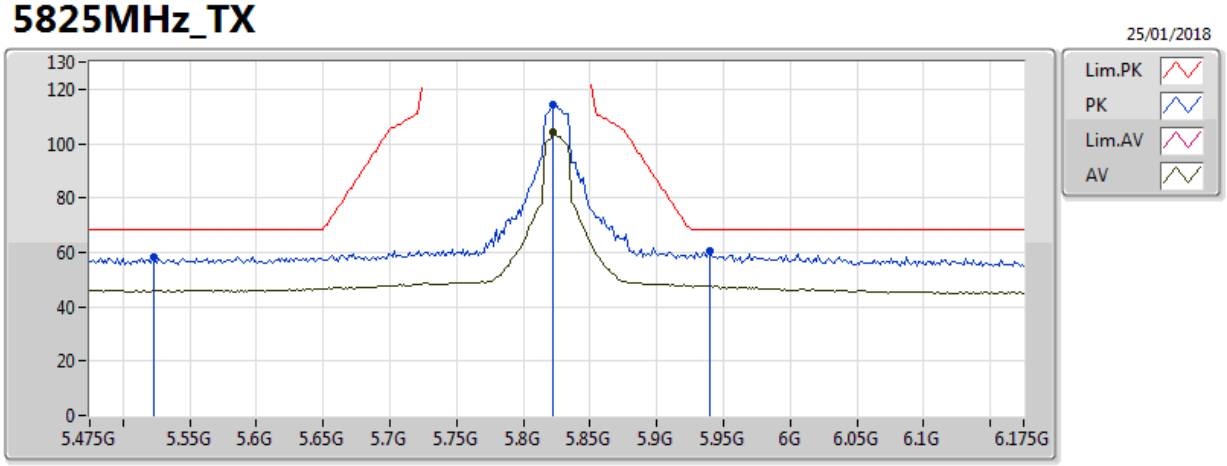


20180330
EUT Y_2TX_Dipole
Setting 14
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.56788G	53.61	54.00	-0.39	13.33	3	Horizontal	148	2.30	-
PK	11.57106G	69.05	74.00	-4.95	13.33	3	Horizontal	148	2.30	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

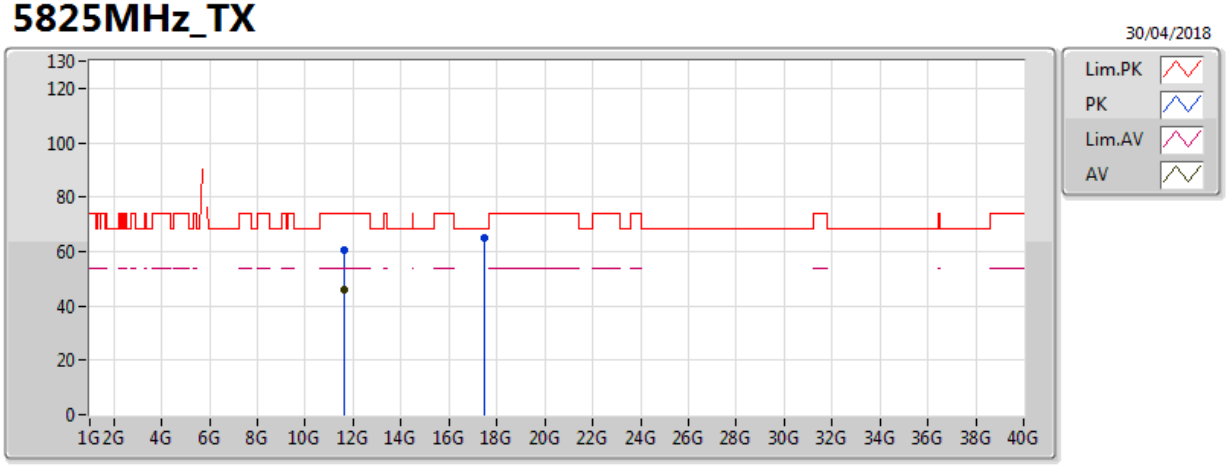


20180125
EUT Y_2TX_Dipole
Setting 10
03-C-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8222G	104.04	Inf	-Inf	6.68	3	Vertical	281	2.08	-
PK	5.5226G	58.23	68.20	-9.97	6.23	3	Vertical	281	2.08	-
PK	5.8222G	114.09	Inf	-Inf	6.68	3	Vertical	281	2.08	-
PK	5.9398G	60.46	68.20	-7.74	6.59	3	Vertical	281	2.08	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

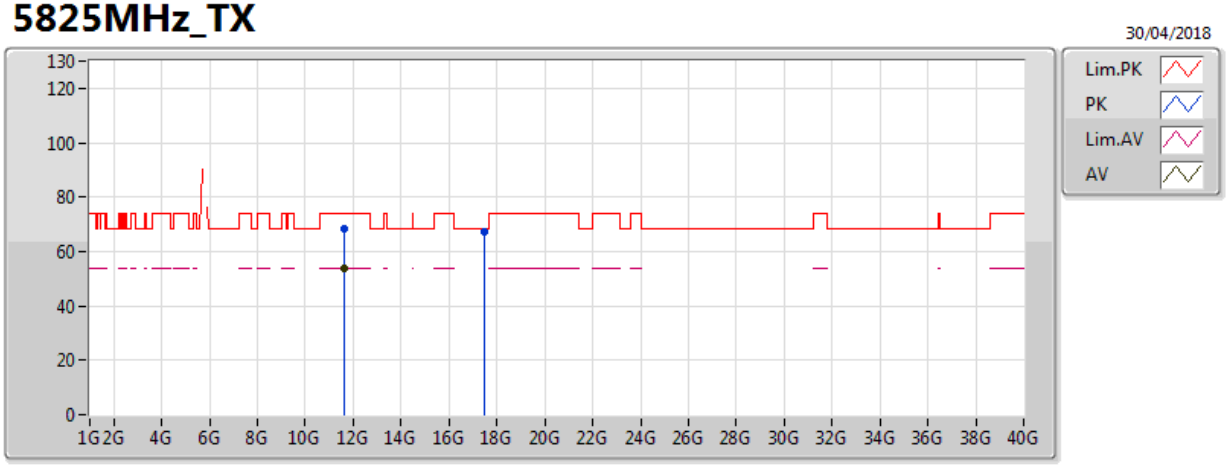


20180125
EUT Y_2TX_Dipole
Setting 10
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.6482G	46.02	54.00	-7.98	14.59	3	Vertical	109	1.97	-
PK	11.652G	60.30	74.00	-13.70	14.59	3	Vertical	109	1.97	-
PK	17.474G	65.28	68.20	-2.92	20.71	3	Vertical	71	1.60	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

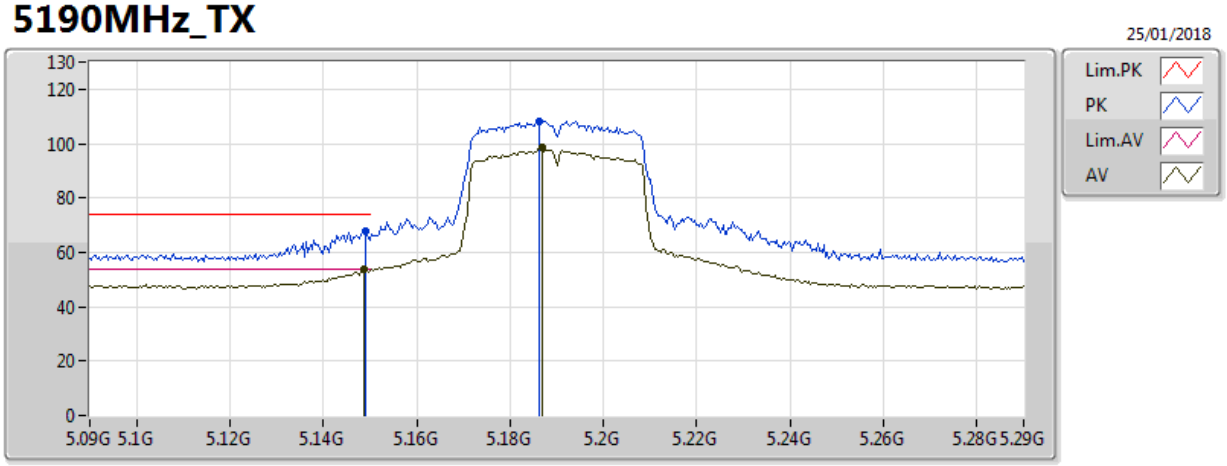


20180125
EUT Y_2TX_Dipole
Setting 10
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.6483G	53.66	54.00	-0.34	14.59	3	Horizontal	24	2.32	-
PK	11.6519G	68.17	74.00	-5.83	14.59	3	Horizontal	24	2.32	-
PK	17.4711G	66.97	68.20	-1.23	20.69	3	Horizontal	25	1.66	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

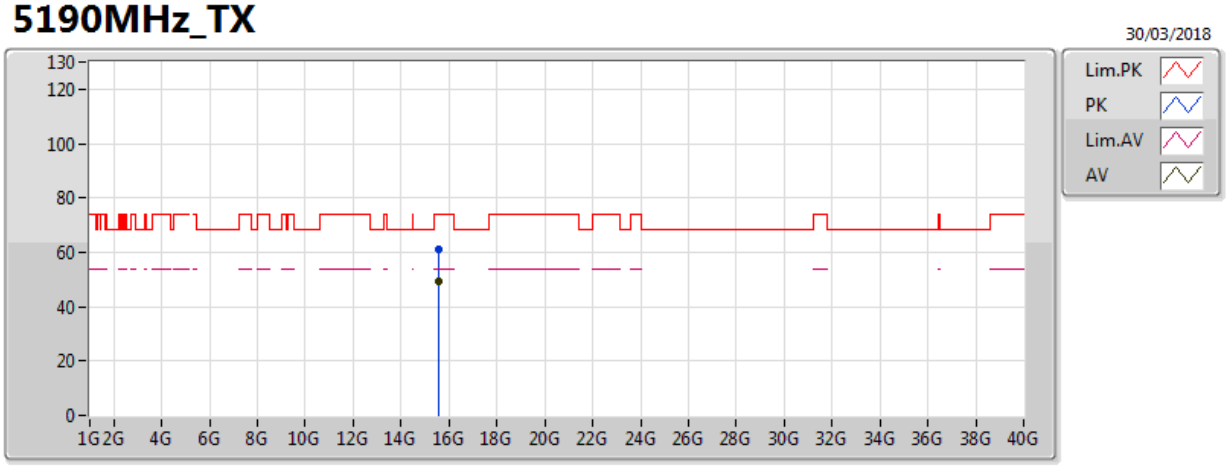


20180125
EUT Y_2TX_Dipole
Setting 0A
03-C-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1488G	53.73	54.00	-0.27	5.68	3	Vertical	300	2.40	-
AV	5.1868G	98.56	Inf	-Inf	5.83	3	Vertical	300	2.40	-
PK	5.1492G	68.02	74.00	-5.98	5.69	3	Vertical	300	2.40	-
PK	5.1864G	108.40	Inf	-Inf	5.83	3	Vertical	300	2.40	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

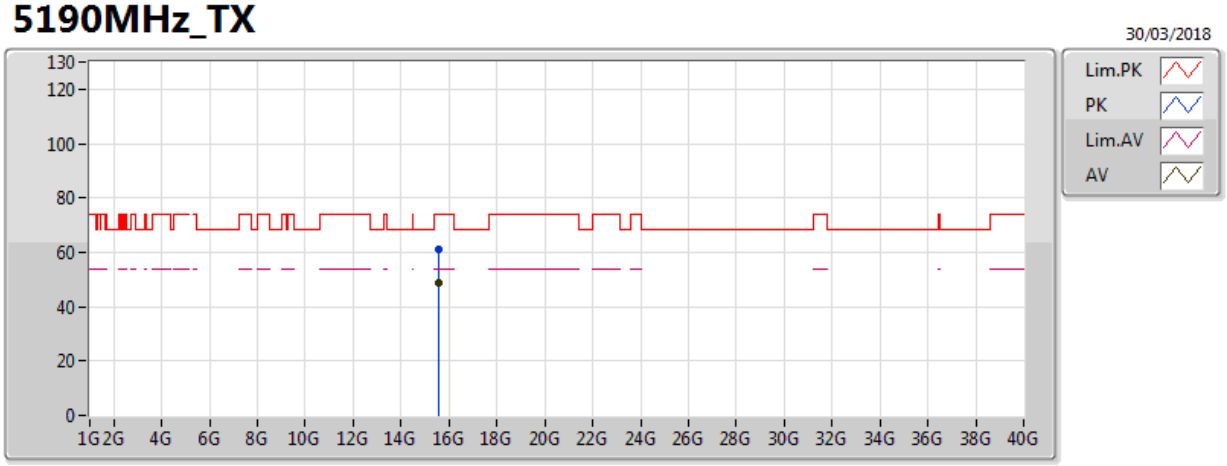


20180330
EUT Y_2TX_Dipole
Setting 0A
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.5699G	49.04	54.00	-4.96	15.88	3	Vertical	139	2.58	-
PK	15.57168G	61.22	74.00	-12.78	15.88	3	Vertical	139	2.58	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

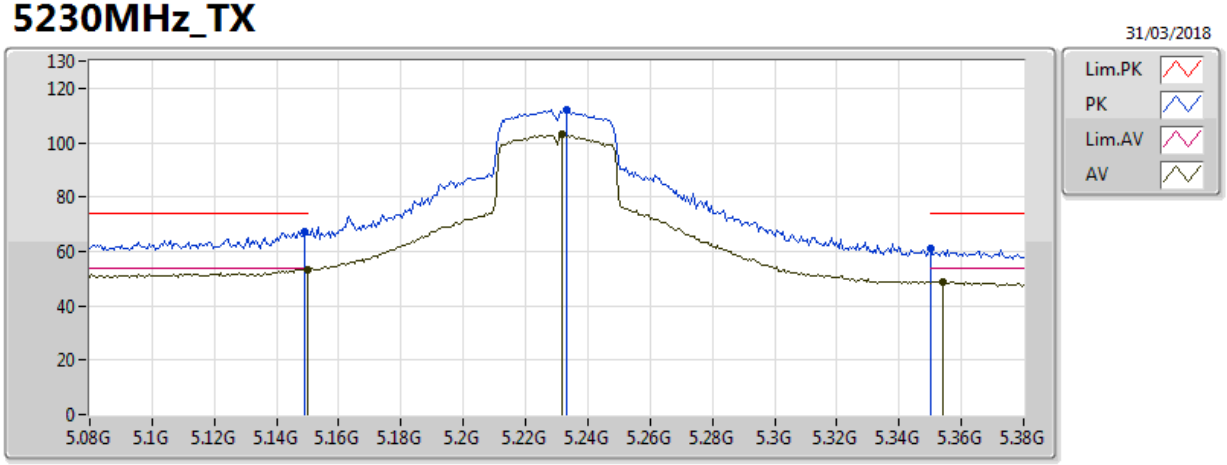


20180330
EUT Y_2TX_Dipole
Setting 0A
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.56898G	48.76	54.00	-5.24	15.89	3	Horizontal	172	2.95	-
PK	15.57102G	60.98	74.00	-13.02	15.88	3	Horizontal	172	2.95	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

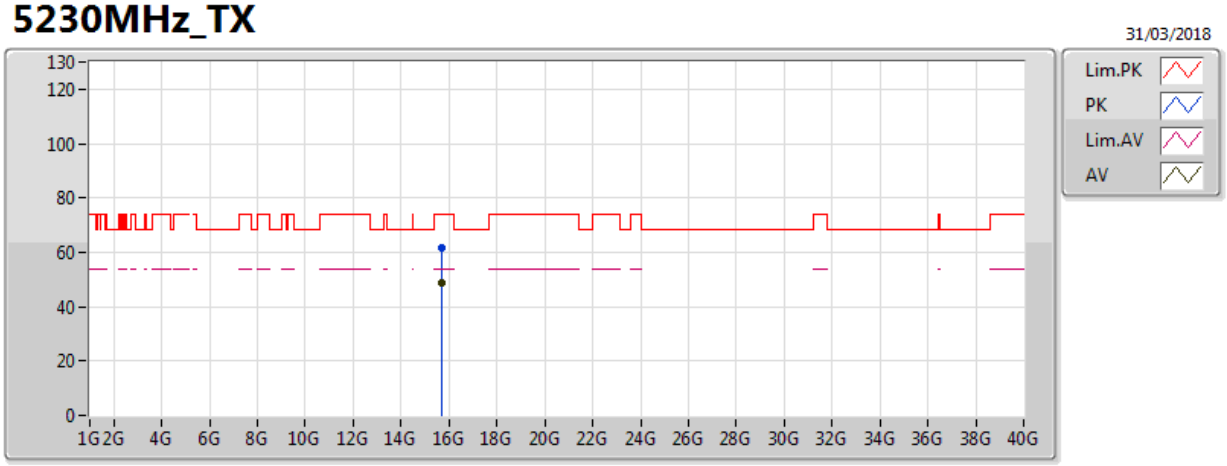


20180330
EUT Y_2TX_Dipole
Setting 15
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.149995G	53.51	54.00	-0.49	4.90	3	Vertical	301	1.73	-
AV	5.2318G	103.00	Inf	-Inf	5.10	3	Vertical	301	1.73	-
AV	5.3542G	48.81	54.00	-5.19	5.62	3	Vertical	301	1.73	-
PK	5.149G	67.25	74.00	-6.75	4.90	3	Vertical	301	1.73	-
PK	5.233G	112.24	Inf	-Inf	5.11	3	Vertical	301	1.73	-
PK	5.350005G	61.16	74.00	-12.84	5.60	3	Vertical	301	1.73	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

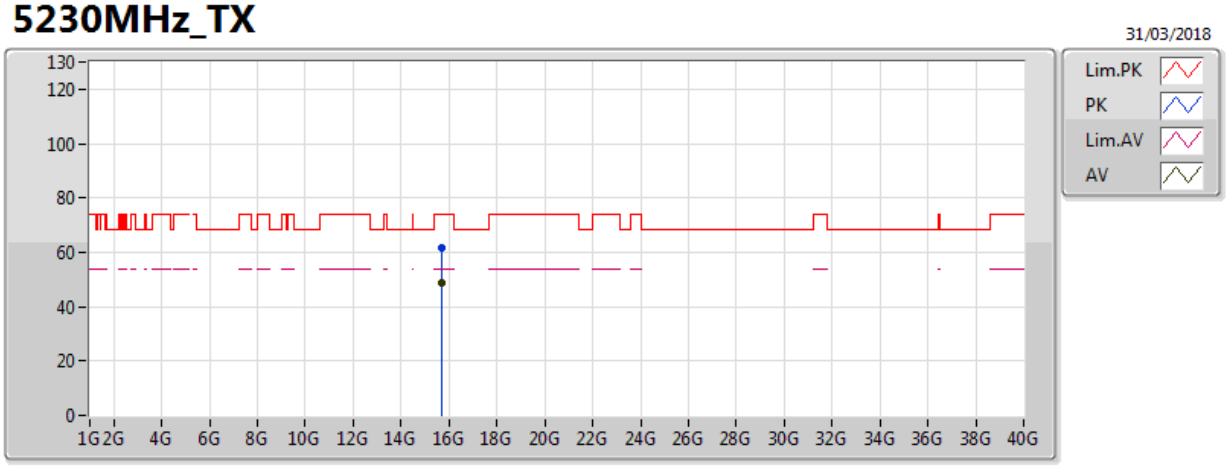


20180330
EUT Y_2TX_Dipole
Setting 15
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.69136G	48.70	54.00	-5.30	15.69	3	Vertical	72	1.77	-
PK	15.68556G	61.45	74.00	-12.55	15.70	3	Vertical	72	1.77	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

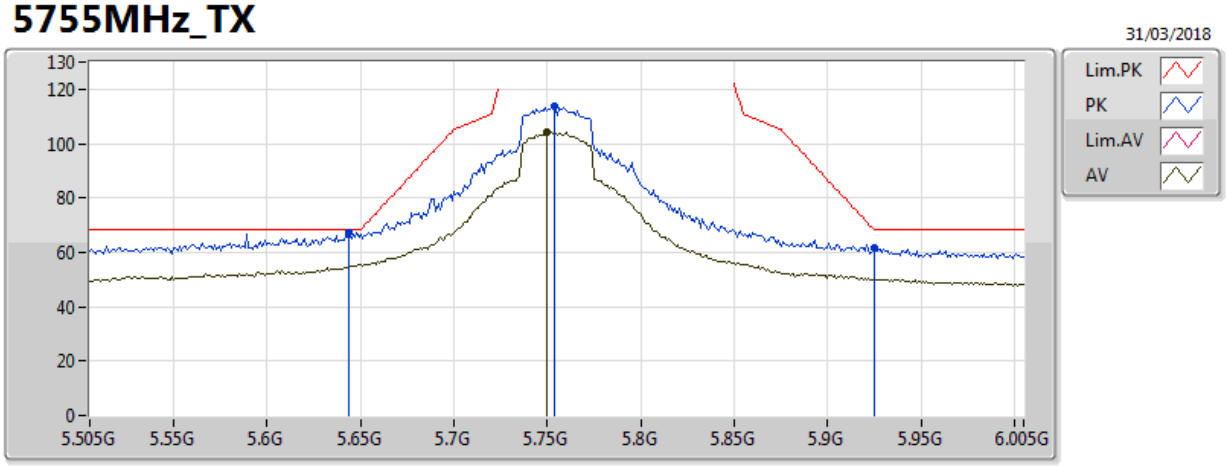


20180330
EUT Y_2TX_Dipole
Setting 15
03-E-2-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.68844G	48.58	54.00	-5.42	15.70	3	Horizontal	40	1.50	-
PK	15.69226G	61.58	74.00	-12.42	15.69	3	Horizontal	40	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

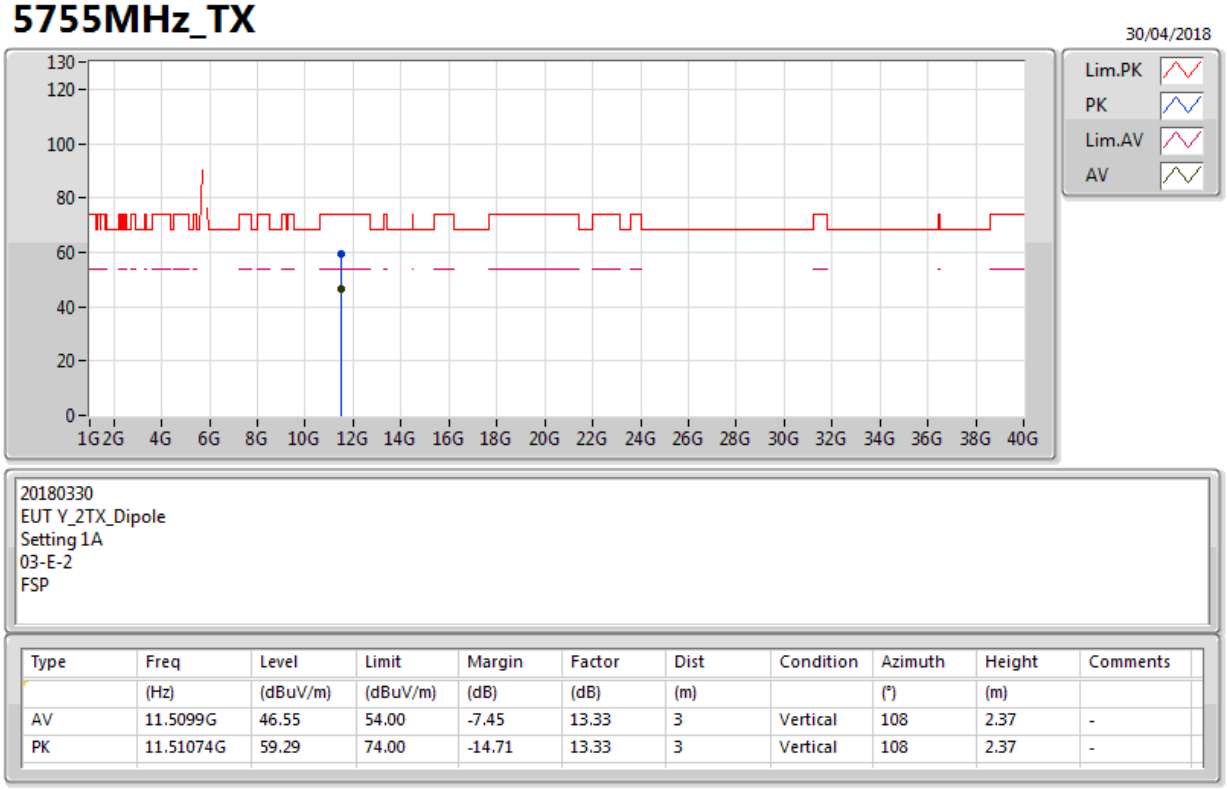


20180330
EUT Y_2TX_Dipole
Setting 1A
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.75G	104.19	Inf	-Inf	6.89	3	Vertical	248	1.50	-
PK	5.644G	67.20	68.20	-1.00	6.45	3	Vertical	248	1.50	-
PK	5.754G	113.94	Inf	-Inf	6.91	3	Vertical	248	1.50	-
PK	5.925006G	61.53	68.20	-6.67	7.34	3	Vertical	248	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

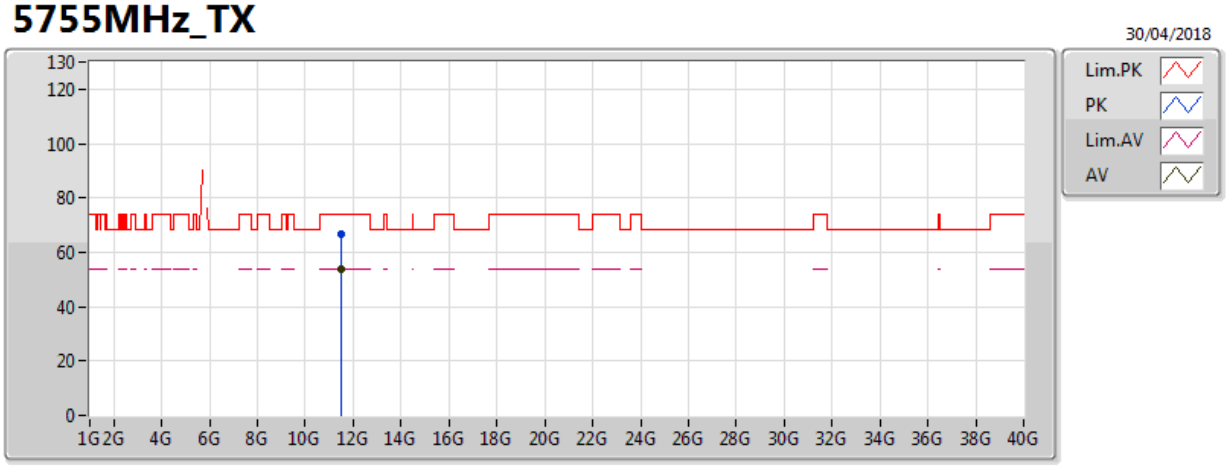


20180330
EUT Y_2TX_Dipole
Setting 1A
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5099G	46.55	54.00	-7.45	13.33	3	Vertical	108	2.37	-
PK	11.51074G	59.29	74.00	-14.71	13.33	3	Vertical	108	2.37	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

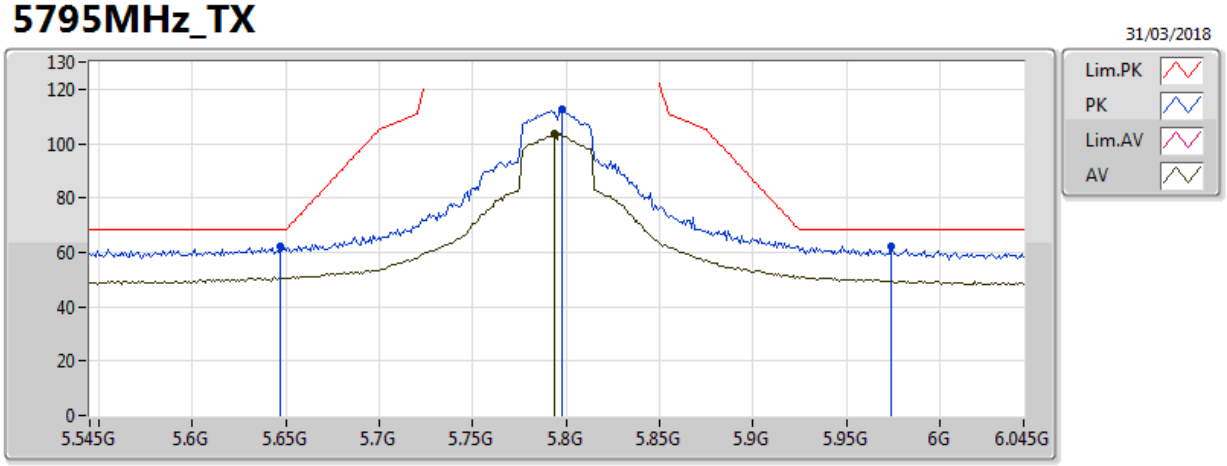


20180330
EUT Y_2TX_Dipole
Setting 1A
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.50986G	53.80	54.00	-0.20	13.33	3	Horizontal	150	1.67	-
PK	11.51098G	66.48	74.00	-7.52	13.33	3	Horizontal	150	1.67	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

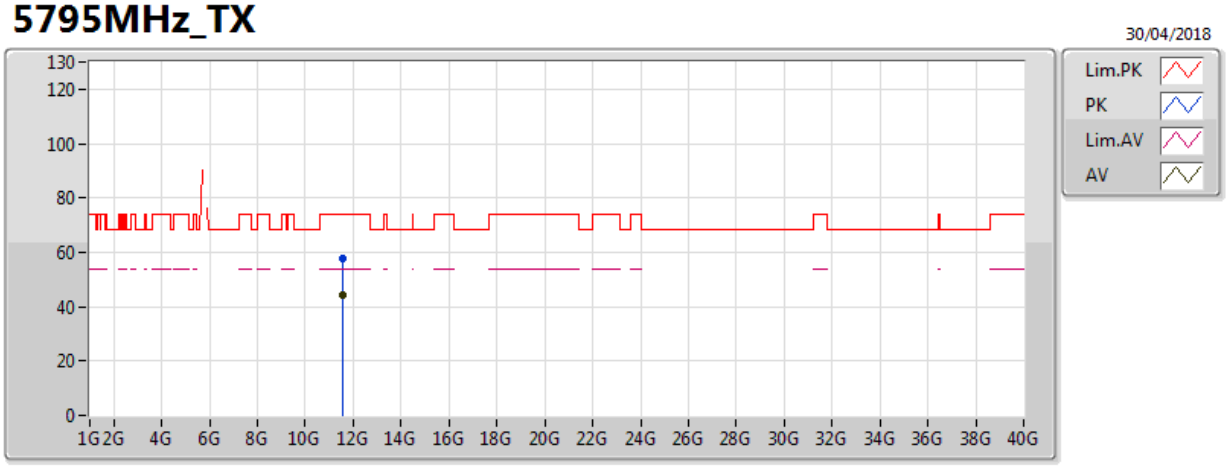


20180330
EUT Y_2TX_Dipole
Setting 14
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.794G	103.68	Inf	-Inf	7.07	3	Vertical	292	1.48	-
PK	5.647G	62.11	68.20	-6.09	6.46	3	Vertical	292	1.48	-
PK	5.798G	112.76	Inf	-Inf	7.09	3	Vertical	292	1.48	-
PK	5.974G	62.19	68.20	-6.01	7.43	3	Vertical	292	1.48	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

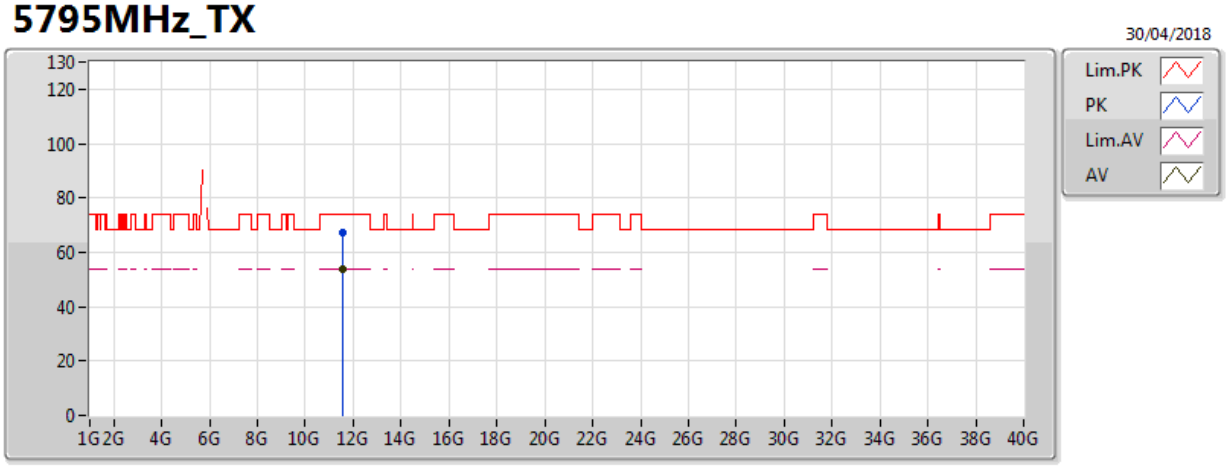


20180330
EUT Y_2TX_Dipole
Setting 14
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.58954G	44.49	54.00	-9.51	13.33	3	Vertical	97	2.33	-
PK	11.59066G	57.48	74.00	-16.52	13.33	3	Vertical	97	2.33	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

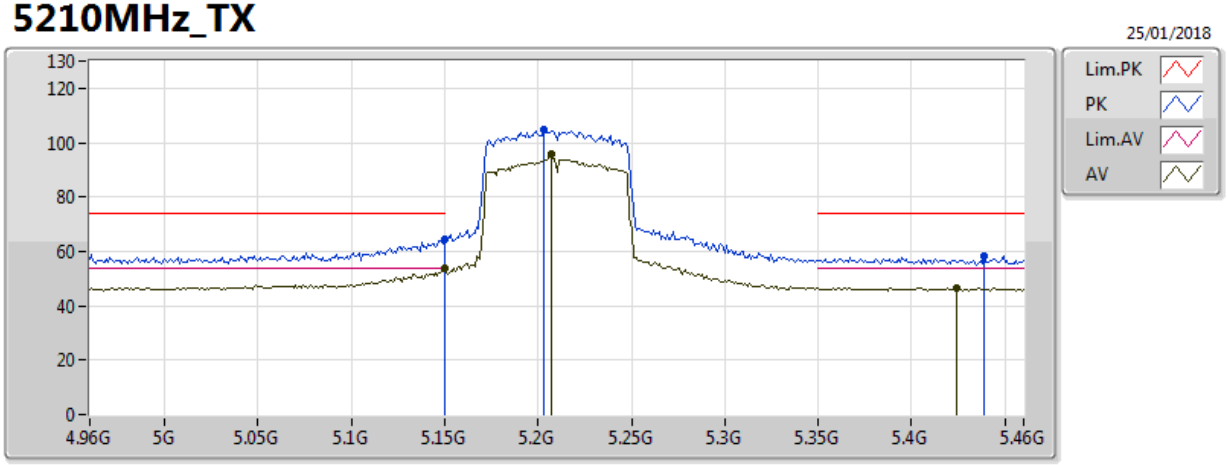


20180330
EUT Y_2TX_Dipole
Setting 14
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.58972G	53.66	54.00	-0.34	13.33	3	Horizontal	150	1.68	-
PK	11.59096G	67.31	74.00	-6.69	13.33	3	Horizontal	150	1.68	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

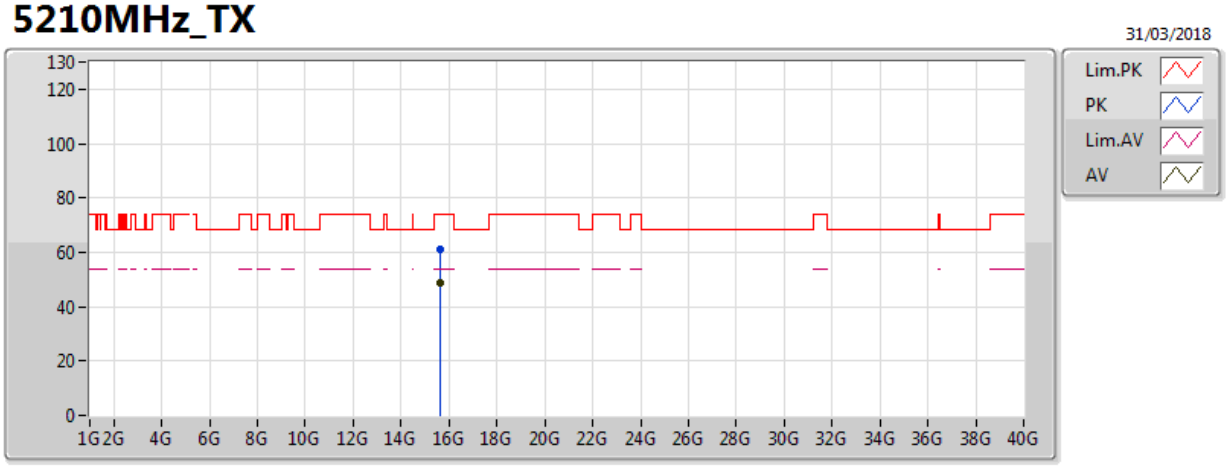


20180125
EUT Y_2TX_Dipole
Setting 08
03-C-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.149995G	53.72	54.00	-0.28	5.69	3	Vertical	55	2.10	-
AV	5.207G	95.70	Inf	-Inf	5.89	3	Vertical	55	2.10	-
AV	5.424G	46.76	54.00	-7.24	6.15	3	Vertical	55	2.10	-
PK	5.149995G	64.71	74.00	-9.29	5.69	3	Vertical	55	2.10	-
PK	5.203G	104.89	Inf	-Inf	5.88	3	Vertical	55	2.10	-
PK	5.439G	58.39	74.00	-15.61	6.17	3	Vertical	55	2.10	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

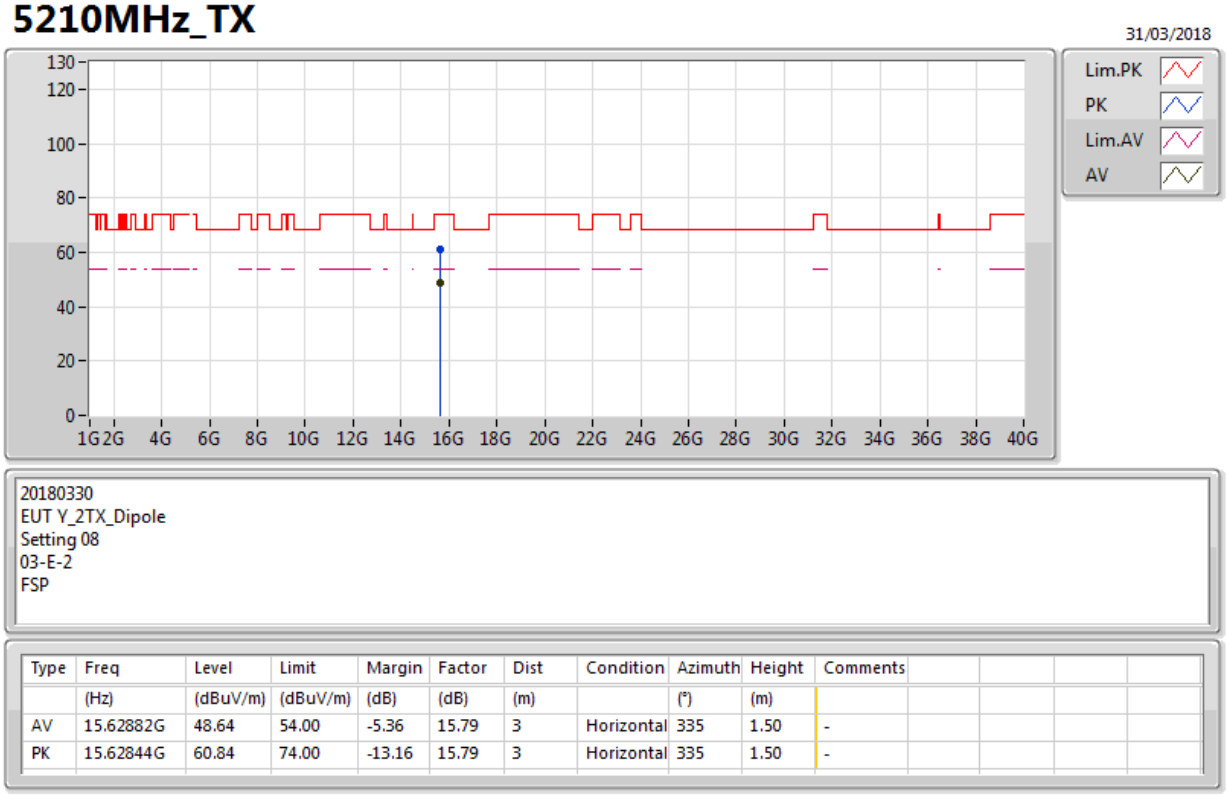


20180330
EUT Y_2TX_Dipole
Setting 08
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.63228G	48.50	54.00	-5.50	15.78	3	Vertical	212	1.50	-
PK	15.63188G	60.83	74.00	-13.17	15.79	3	Vertical	212	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

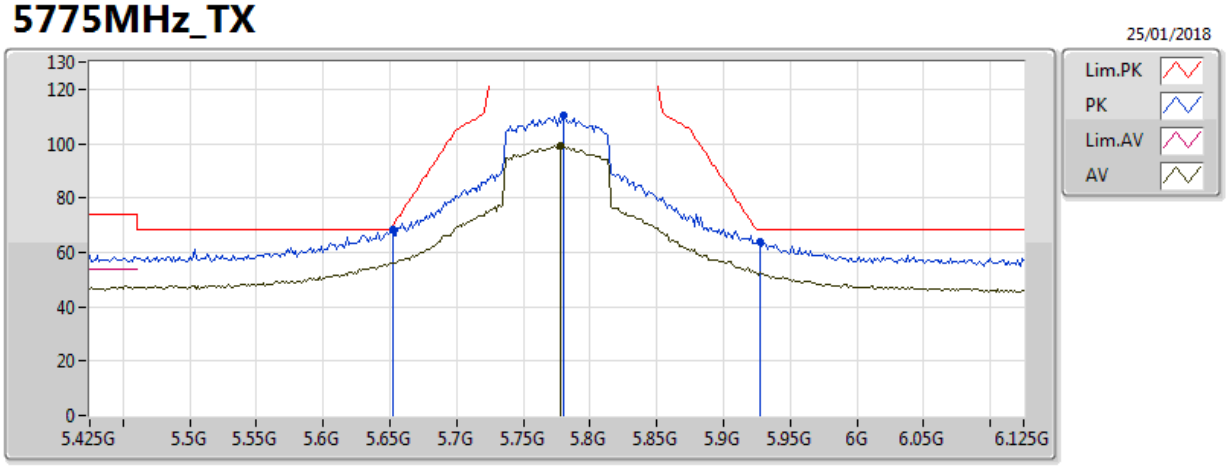


20180330
EUT Y_2TX_Dipole
Setting 08
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	15.62882G	48.64	54.00	-5.36	15.79	3	Horizontal	335	1.50	-
PK	15.62844G	60.84	74.00	-13.16	15.79	3	Horizontal	335	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

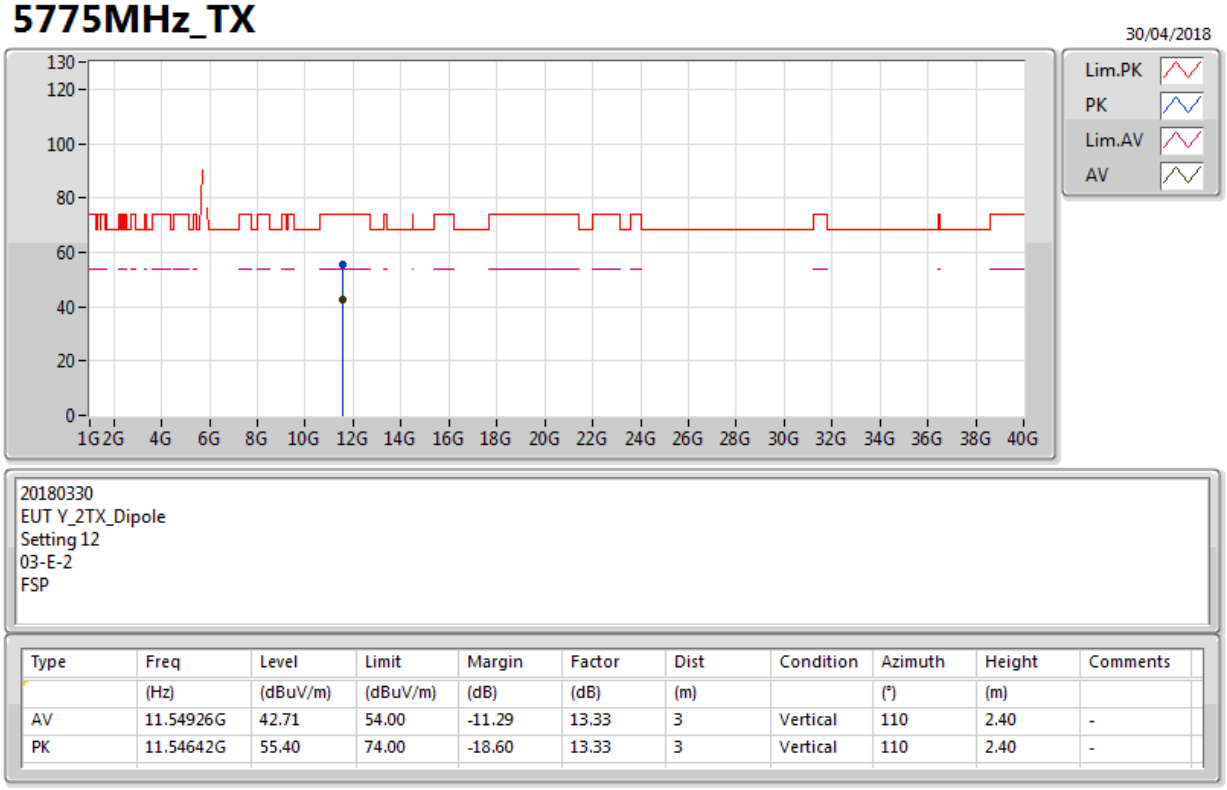


20180125
EUT Y_2TX_Dipole
Setting 12
03-C-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7778G	99.39	Inf	-Inf	6.64	3	Vertical	78	1.95	-
PK	5.6518G	68.55	69.53	-0.98	6.33	3	Vertical	78	1.95	-
PK	5.7806G	110.57	Inf	-Inf	6.64	3	Vertical	78	1.95	-
PK	5.9276G	63.88	68.20	-4.32	6.60	3	Vertical	78	1.95	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

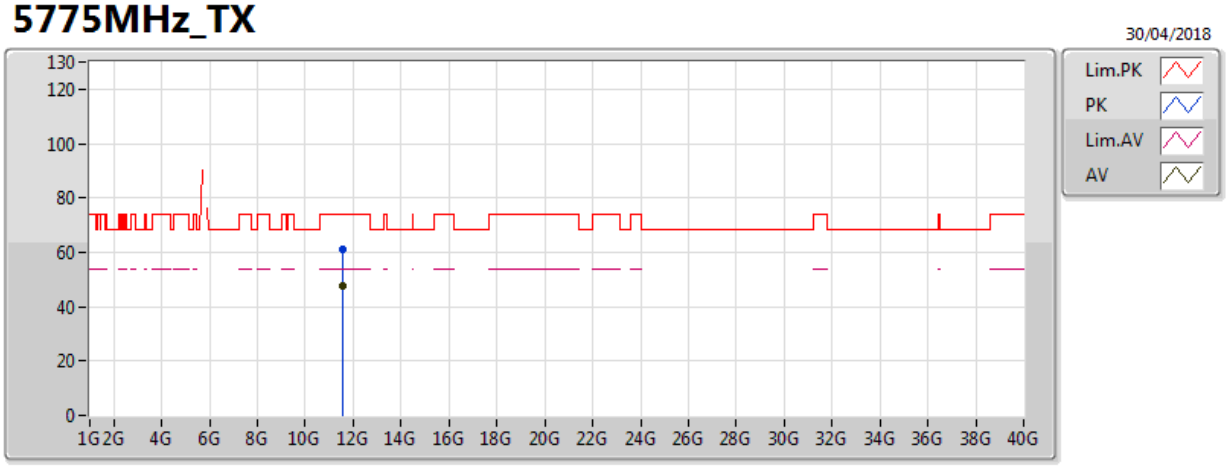


20180330
EUT Y_2TX_Dipole
Setting 12
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.54926G	42.71	54.00	-11.29	13.33	3	Vertical	110	2.40	-
PK	11.54642G	55.40	74.00	-18.60	13.33	3	Vertical	110	2.40	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX



20180330
EUT Y_2TX_Dipole
Setting 12
03-E-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.55014G	47.62	54.00	-6.38	13.33	3	Horizontal	150	1.69	-
PK	11.55068G	61.02	74.00	-12.98	13.33	3	Horizontal	150	1.69	-

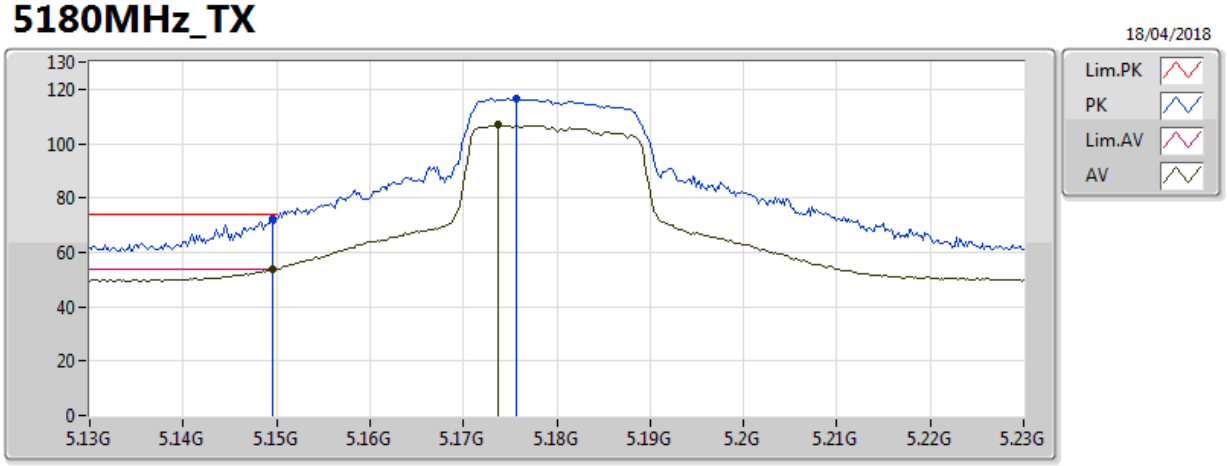
<For Beamforming Mode>

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	Pass	PK	17.3508G	68.18	68.20	-0.02	20.40	3	Horizontal	43	1.78	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

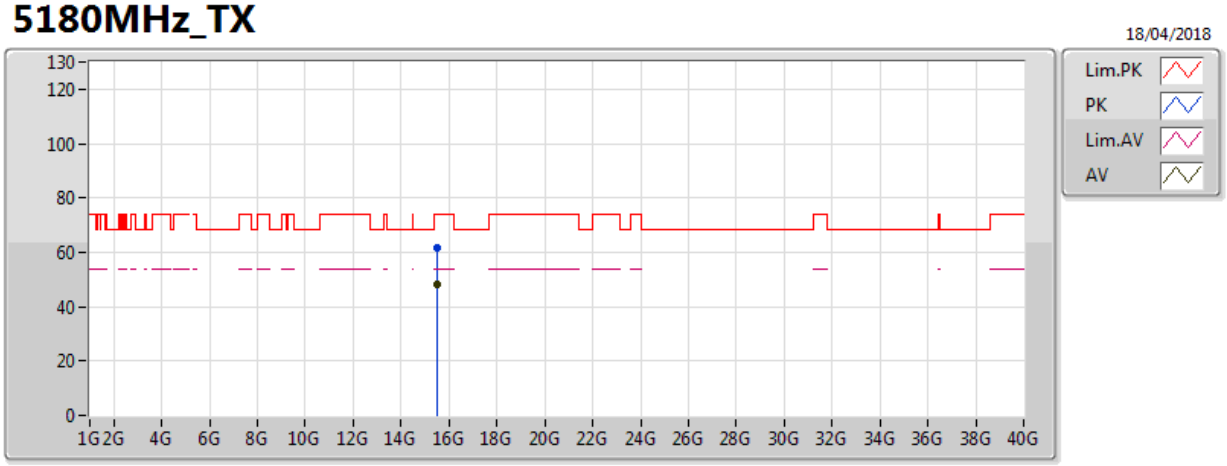


EUT Y_2TX
Setting 19
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.1496G	72.09	74.00	-1.91	4.90	3	Vertical	290	1.60	-
AV	5.1496G	53.90	54.00	-0.10	4.90	3	Vertical	290	1.60	-
PK	5.1756G	116.68	Inf	-Inf	4.93	3	Vertical	290	1.60	-
AV	5.1738G	106.78	Inf	-Inf	4.93	3	Vertical	290	1.60	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

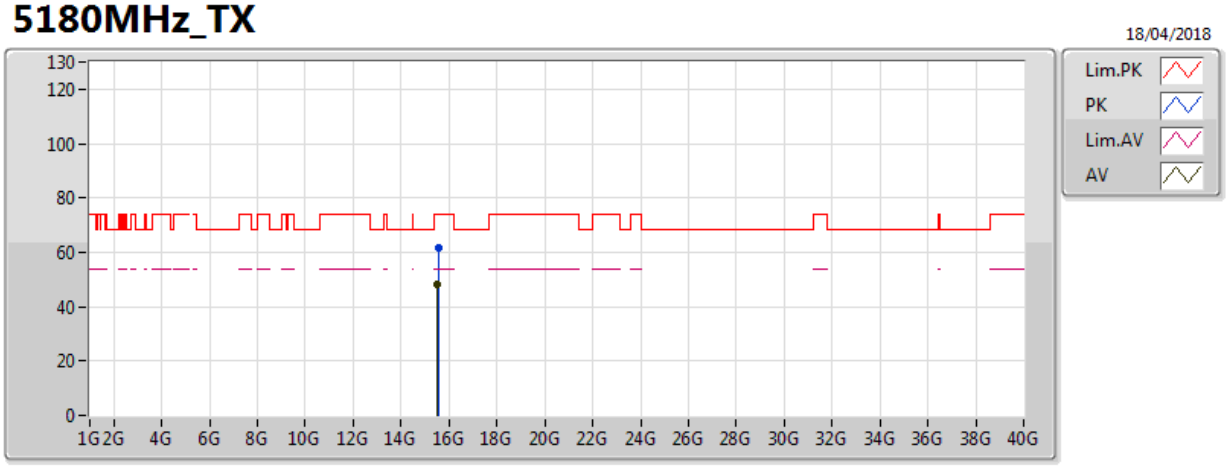


EUT Y_2TX
Setting 19
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.53412G	61.86	74.00	-12.14	15.94	3	Vertical	43	2.61	-
AV	15.537G	47.98	54.00	-6.02	15.94	3	Vertical	43	2.61	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5180MHz_TX

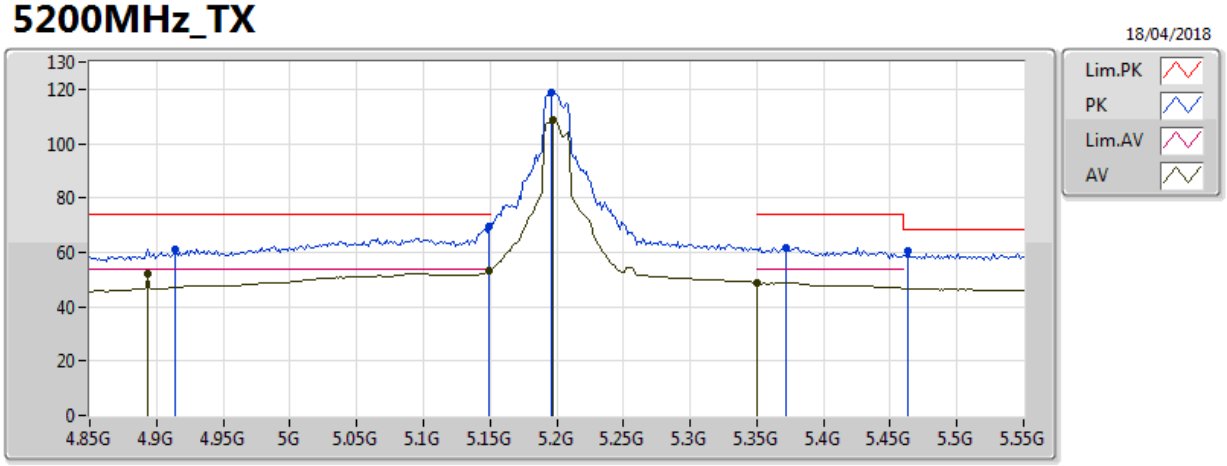


EUT Y_2TX
Setting 19
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.54216G	61.46	74.00	-12.54	15.93	3	Horizontal	0	1.50	-
AV	15.52578G	48.09	54.00	-5.91	15.95	3	Horizontal	0	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

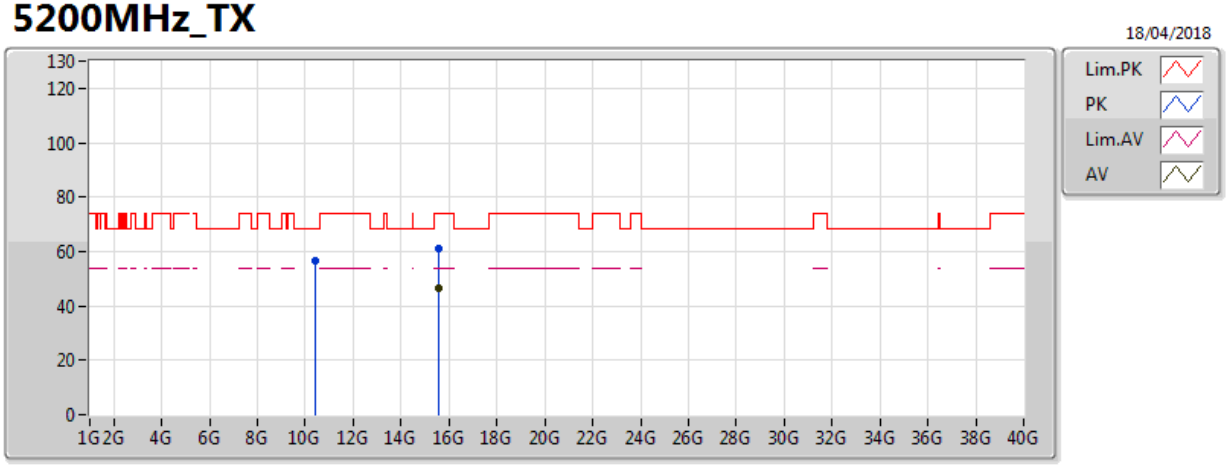


EUT Y_2TX
Setting 29
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.9144G	61.32	74.00	-12.68	4.37	3	Vertical	120	1.50	-
AV	4.8934G	52.39	54.00	-1.61	4.28	3	Vertical	120	1.50	-
PK	5.1496G	69.26	74.00	-4.74	4.90	3	Vertical	120	1.50	-
AV	5.1496G	53.35	54.00	-0.65	4.90	3	Vertical	120	1.50	-
PK	5.1958G	118.52	Inf	-Inf	4.95	3	Vertical	120	1.50	-
AV	5.1972G	108.44	Inf	-Inf	4.96	3	Vertical	120	1.50	-
PK	5.4632G	60.48	68.20	-7.72	5.92	3	Vertical	120	1.50	-
AV	5.350005G	48.85	54.00	-5.15	5.60	3	Vertical	120	1.50	-
PK	5.3722G	61.58	74.00	-12.42	5.68	3	Vertical	120	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

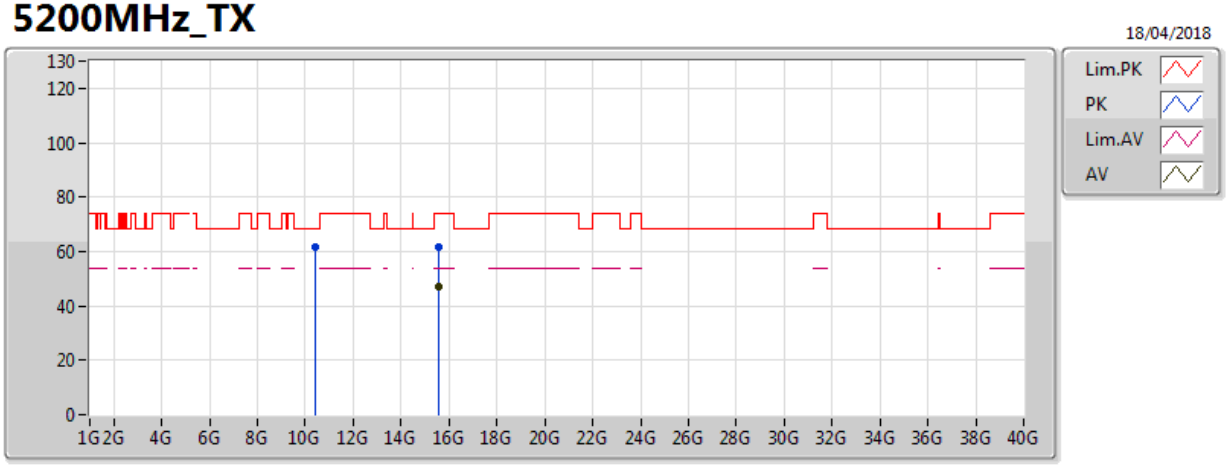


EUT Y_2TX
Setting 29
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.4042G	56.48	68.20	-11.72	12.70	3	Vertical	138	1.52	-
PK	15.59172G	61.23	74.00	-12.77	15.85	3	Vertical	80	1.49	-
AV	15.5886G	46.69	54.00	-7.31	15.85	3	Vertical	80	1.49	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5200MHz_TX

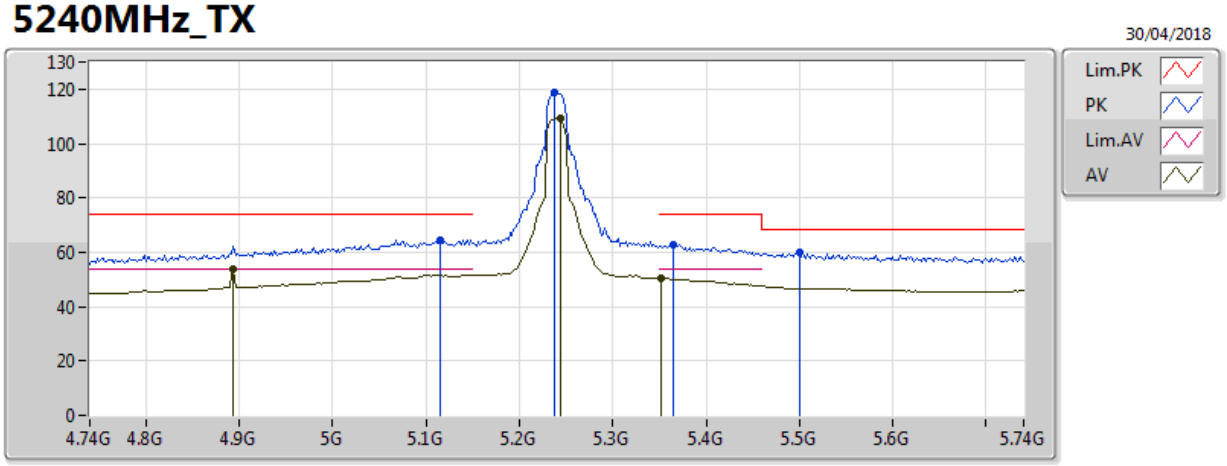


EUT Y_2TX
Setting 29
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	10.4018G	61.81	68.20	-6.39	12.70	3	Horizontal	39	2.07	-
PK	15.59496G	61.38	74.00	-12.62	15.84	3	Horizontal	327	1.48	-
AV	15.5904G	47.01	54.00	-6.99	15.85	3	Horizontal	327	1.48	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

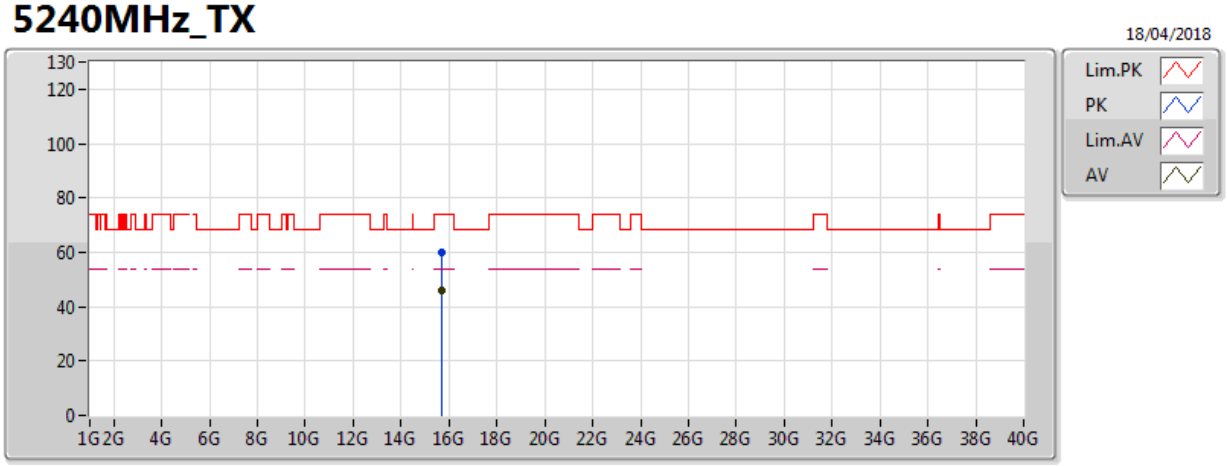


EUT Y_2TX
Setting 27
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.116G	64.69	74.00	-9.31	4.86	3	Vertical	111	2.08	-
AV	4.894G	53.85	54.00	-0.15	4.29	3	Vertical	111	2.08	-
PK	5.238G	118.70	Inf	-Inf	5.13	3	Vertical	111	2.08	-
AV	5.244G	109.14	Inf	-Inf	5.16	3	Vertical	111	2.08	-
PK	5.364G	62.97	74.00	-11.03	5.65	3	Vertical	111	2.08	-
AV	5.352G	50.55	54.00	-3.45	5.60	3	Vertical	111	2.08	-
PK	5.5G	59.68	68.20	-8.52	6.00	3	Vertical	111	2.08	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

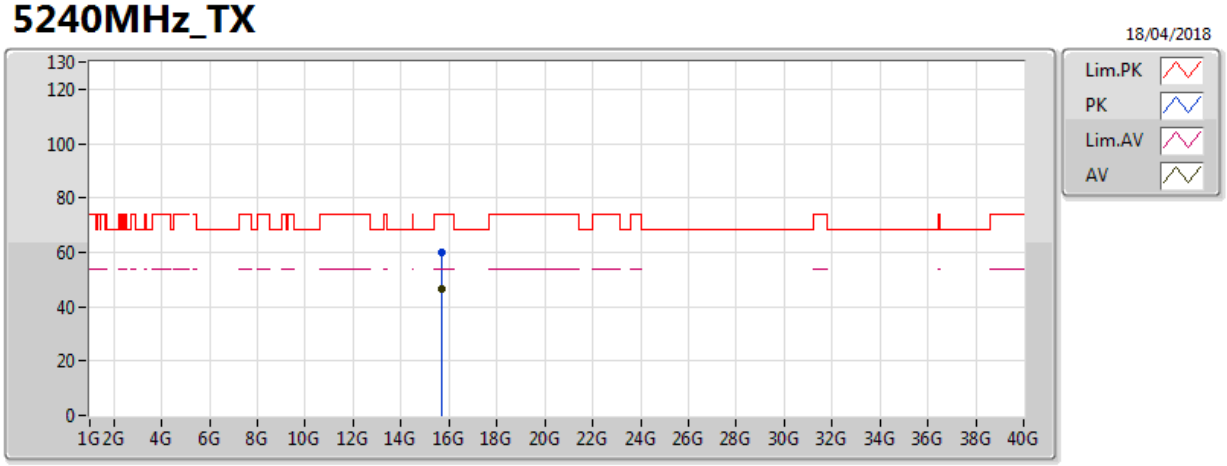


EUT Y_2TX
Setting 27
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.7074G	60.18	74.00	-13.82	15.67	3	Vertical	212	2.99	-
AV	15.7057G	46.12	54.00	-7.88	15.67	3	Vertical	212	2.99	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5240MHz_TX

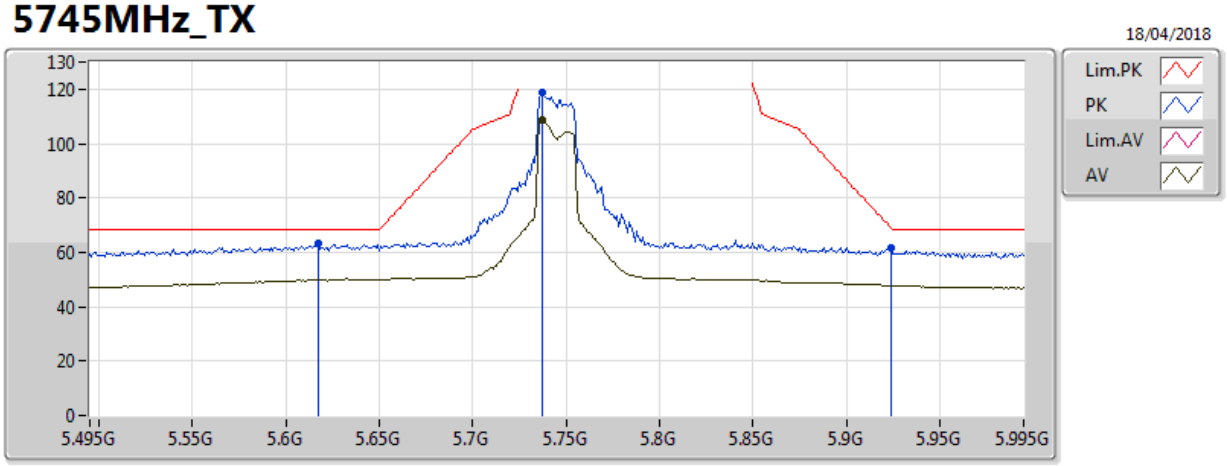


EUT Y_2TX
Setting 27
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.7104G	60.16	74.00	-13.84	15.66	3	Horizontal	279	1.50	-
AV	15.6973G	46.23	54.00	-7.77	15.68	3	Horizontal	279	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

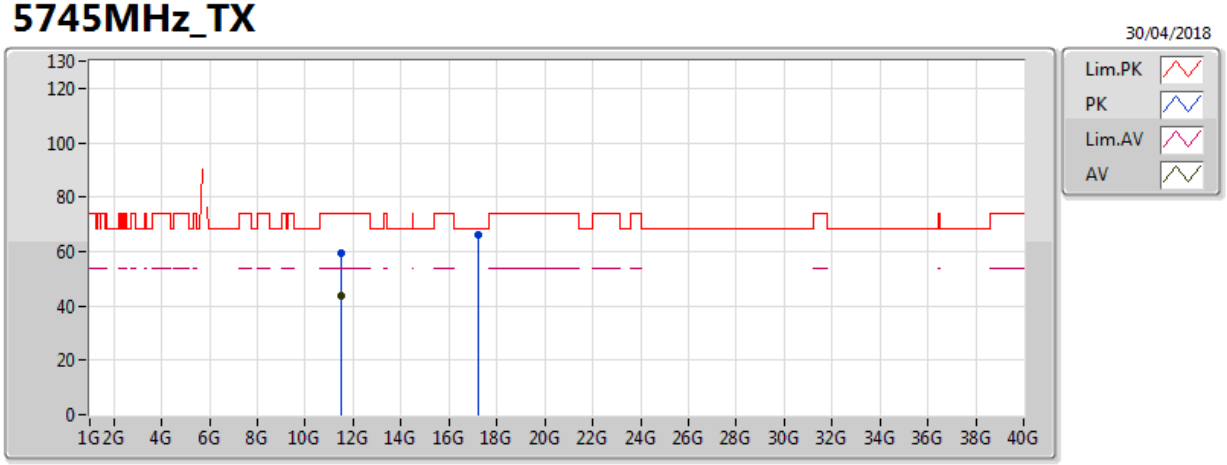


EUT Y_2TX
Setting 21
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.617G	63.08	68.20	-5.12	6.35	3	Vertical	107	1.87	-
PK	5.737G	118.59	Inf	-Inf	6.84	3	Vertical	107	1.87	-
AV	5.737G	108.63	Inf	-Inf	6.84	3	Vertical	107	1.87	-
PK	5.924G	61.56	68.94	-7.38	7.34	3	Vertical	107	1.87	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

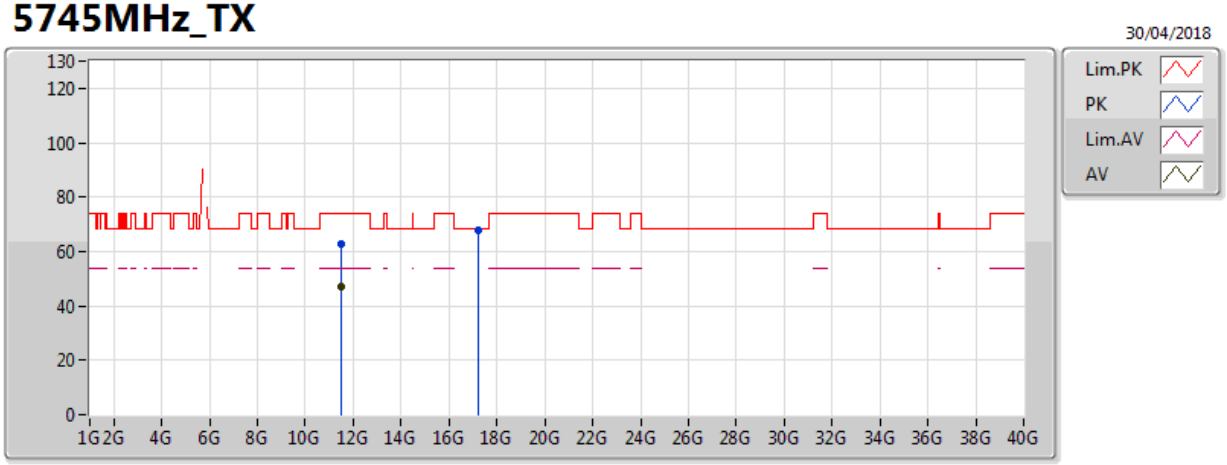


EUT Y_2TX
Setting 21
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.4829G	59.26	74.00	-14.74	13.32	3	Vertical	86	1.87	-
AV	11.4898G	43.63	54.00	-10.37	13.32	3	Vertical	86	1.87	-
PK	17.235G	66.31	68.20	-1.89	20.11	3	Vertical	82	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5745MHz_TX

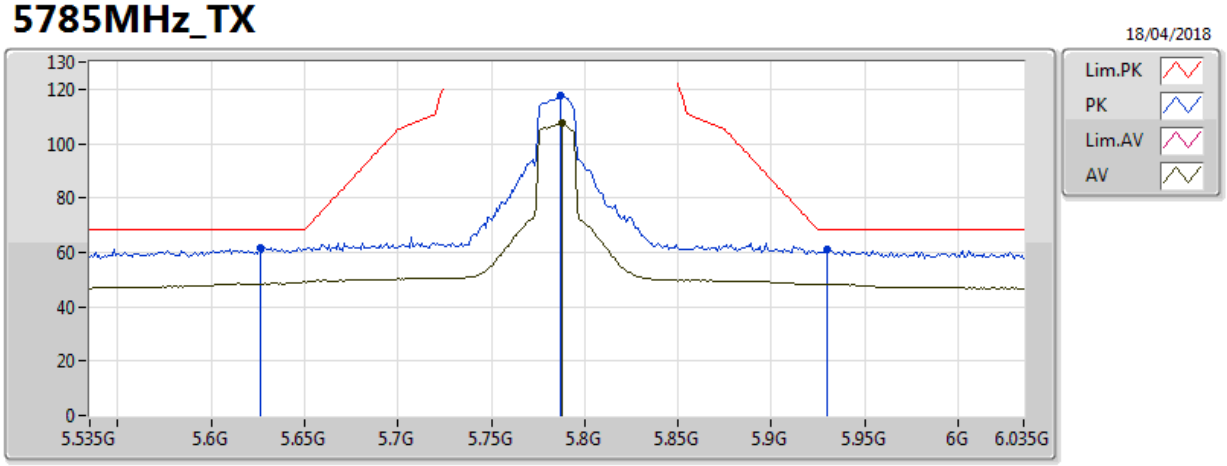


EUT Y_2TX
Setting 21
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.4906G	62.85	74.00	-11.15	13.32	3	Horizontal	144	1.95	-
AV	11.4887G	46.83	54.00	-7.17	13.32	3	Horizontal	144	1.95	-
PK	17.2335G	68.08	68.20	-0.12	20.10	3	Horizontal	106	1.73	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

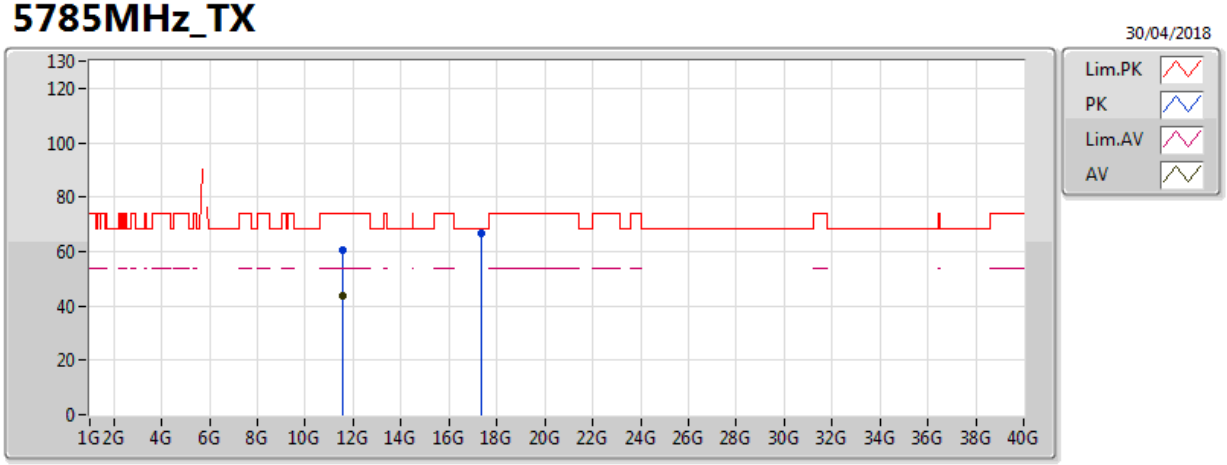


EUT Y_2TX
Setting 21
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.626G	61.52	68.20	-6.68	6.37	3	Vertical	251	1.89	-
PK	5.787G	117.78	Inf	-Inf	7.05	3	Vertical	251	1.89	-
AV	5.788G	107.68	Inf	-Inf	7.05	3	Vertical	251	1.89	-
PK	5.93G	61.16	68.20	-7.04	7.34	3	Vertical	251	1.89	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

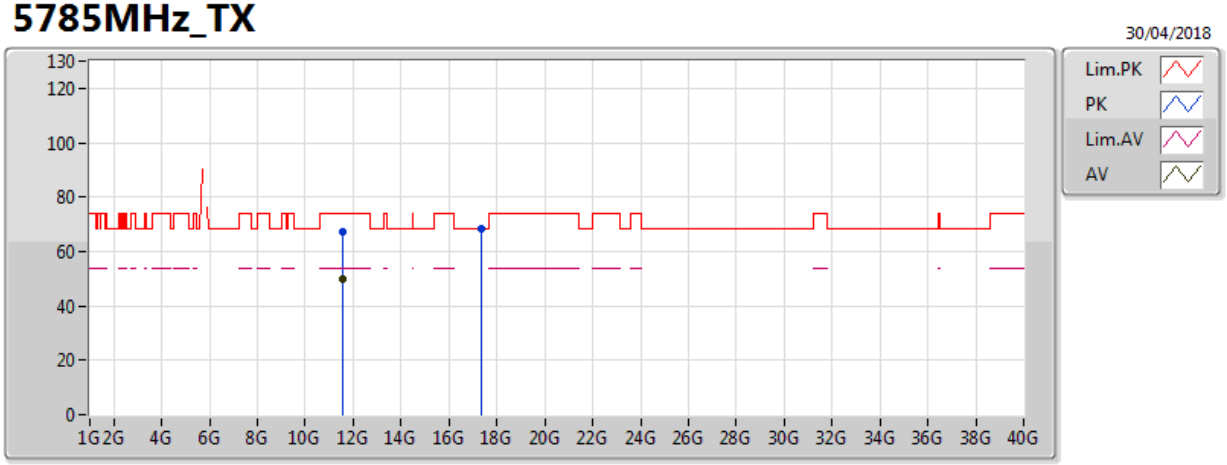


EUT Y_2TX
Setting 21
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5768G	60.52	74.00	-13.48	13.33	3	Vertical	103	1.97	-
AV	11.5702G	43.87	54.00	-10.13	13.33	3	Vertical	103	1.97	-
PK	17.3607G	66.56	68.20	-1.64	20.42	3	Vertical	99	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5785MHz_TX

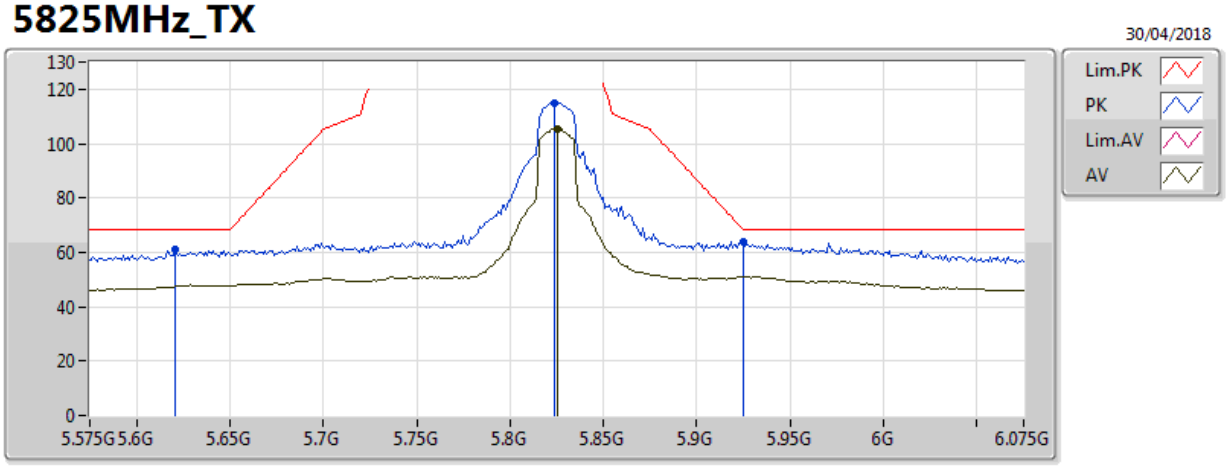


EUT Y_2TX
Setting 21
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5718G	67.35	74.00	-6.65	13.33	3	Horizontal	151	1.95	-
AV	11.5699G	49.80	54.00	-4.20	13.33	3	Horizontal	151	1.95	-
PK	17.3508G	68.18	68.20	-0.02	20.40	3	Horizontal	43	1.78	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX



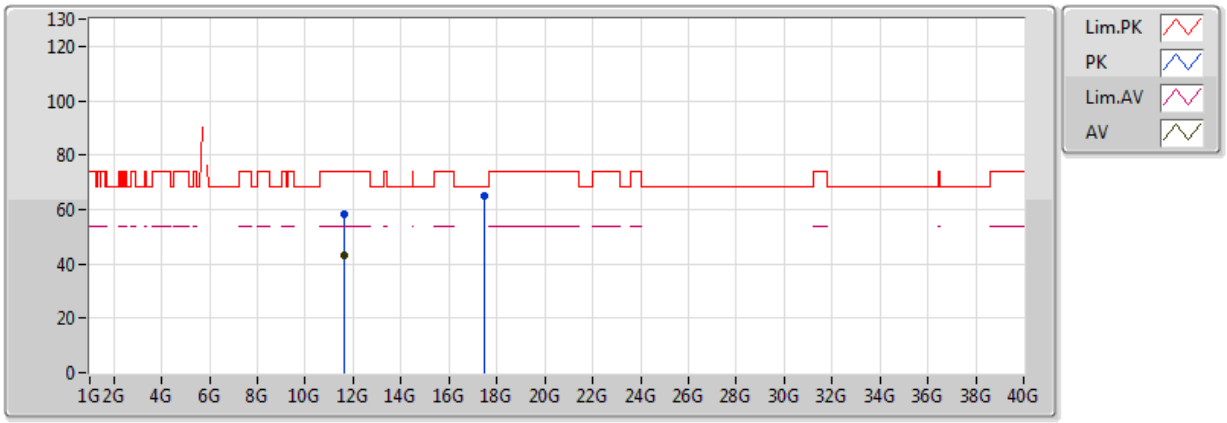
EUT Y_2TX
Setting 20
01-J-6-10
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.621G	60.83	68.20	-7.37	6.36	3	Vertical	336	1.88	-
PK	5.824G	115.08	Inf	-Inf	7.15	3	Vertical	336	1.88	-
AV	5.825G	105.25	Inf	-Inf	7.15	3	Vertical	336	1.88	-
PK	5.924994G	64.10	68.20	-4.10	7.34	3	Vertical	336	1.88	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

30/04/2018

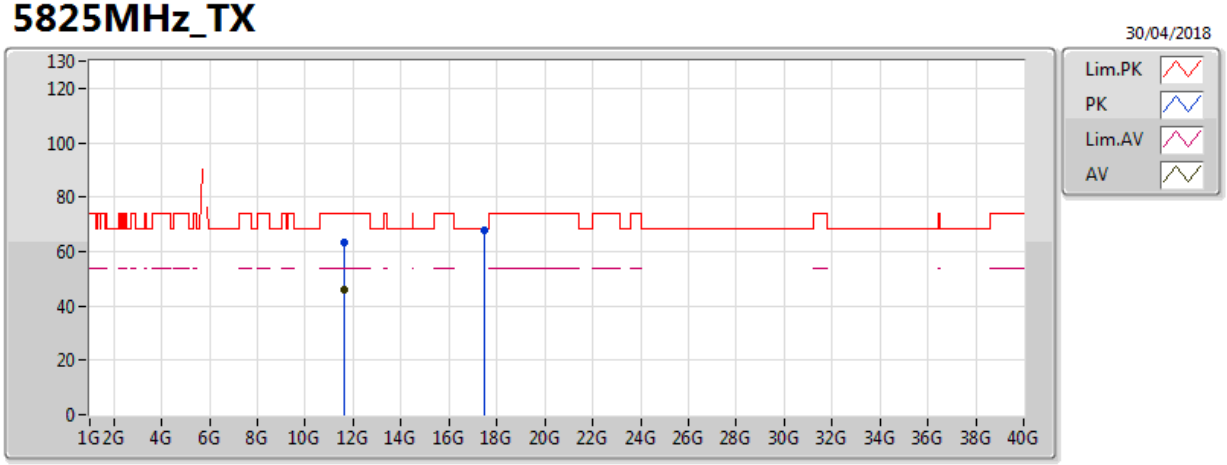


EUT Y_2TX
Setting 20
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.65084G	58.23	74.00	-15.77	13.34	3	Vertical	70	2.35	-
AV	11.65G	43.37	54.00	-10.63	13.34	3	Vertical	70	2.35	-
PK	17.4654G	65.19	68.20	-3.01	20.68	3	Vertical	103	1.70	-

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

5825MHz_TX

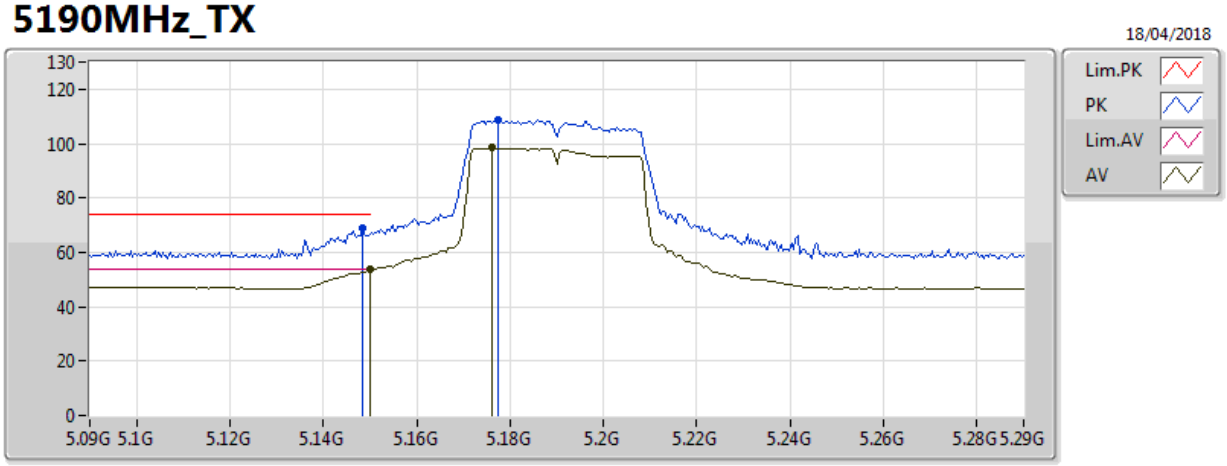


EUT Y_2TX
Setting 20
01-J-6
FSP(100080)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.64496G	63.50	74.00	-10.50	13.34	3	Horizontal	144	1.98	-
AV	11.65132G	45.75	54.00	-8.25	13.34	3	Horizontal	144	1.98	-
PK	17.48052G	67.70	68.20	-0.50	20.72	3	Horizontal	61	1.71	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

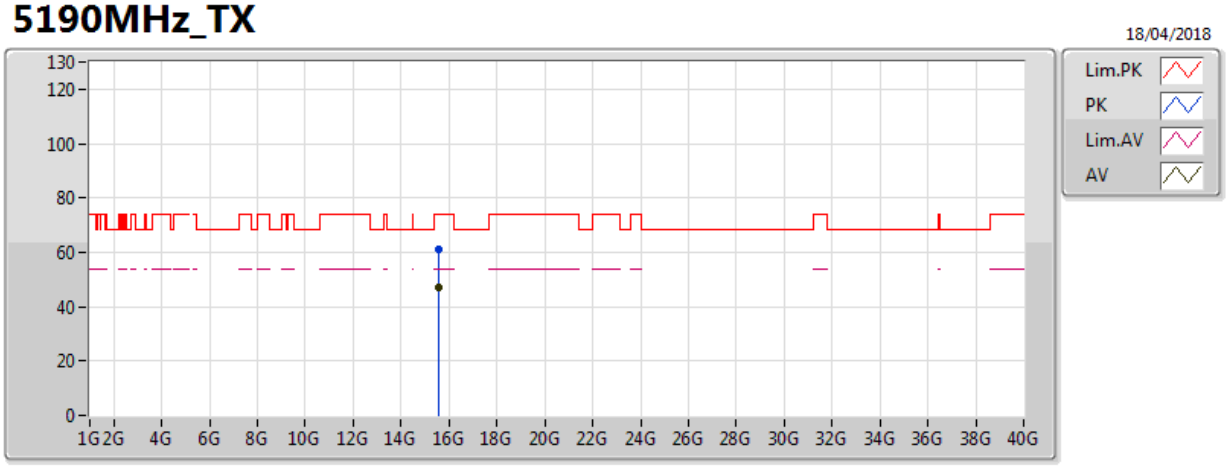


EUT Y_2TX
Setting 12
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.1484G	68.69	74.00	-5.31	4.90	3	Vertical	299	1.65	-
AV	5.149995G	53.57	54.00	-0.43	4.90	3	Vertical	299	1.65	-
PK	5.1776G	108.84	Inf	-Inf	4.93	3	Vertical	299	1.65	-
AV	5.176G	98.43	Inf	-Inf	4.93	3	Vertical	299	1.65	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

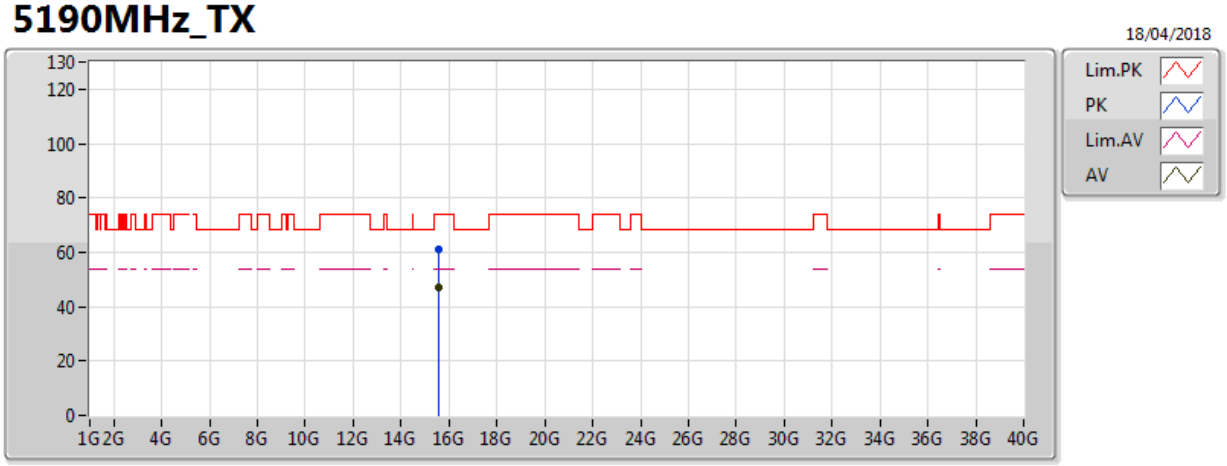


EUT Y_2TX
Setting 12
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.55896G	61.10	74.00	-12.90	15.90	3	Vertical	216	1.50	-
AV	15.55824G	46.85	54.00	-7.15	15.90	3	Vertical	216	1.50	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5190MHz_TX

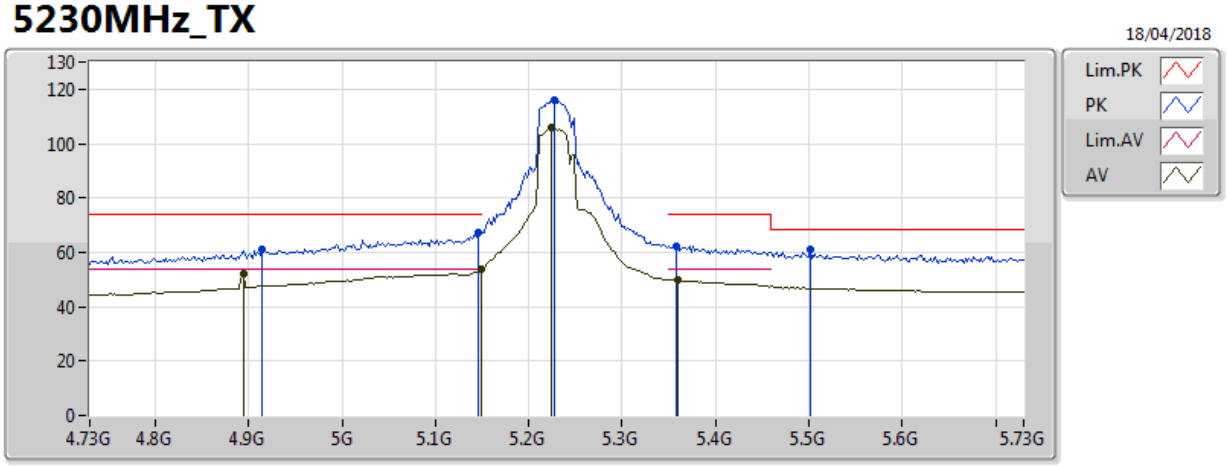


EUT Y_2TX
Setting 12
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.56946G	61.35	74.00	-12.65	15.88	3	Horizontal	182	1.55	-
AV	15.55992G	46.88	54.00	-7.12	15.90	3	Horizontal	182	1.55	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

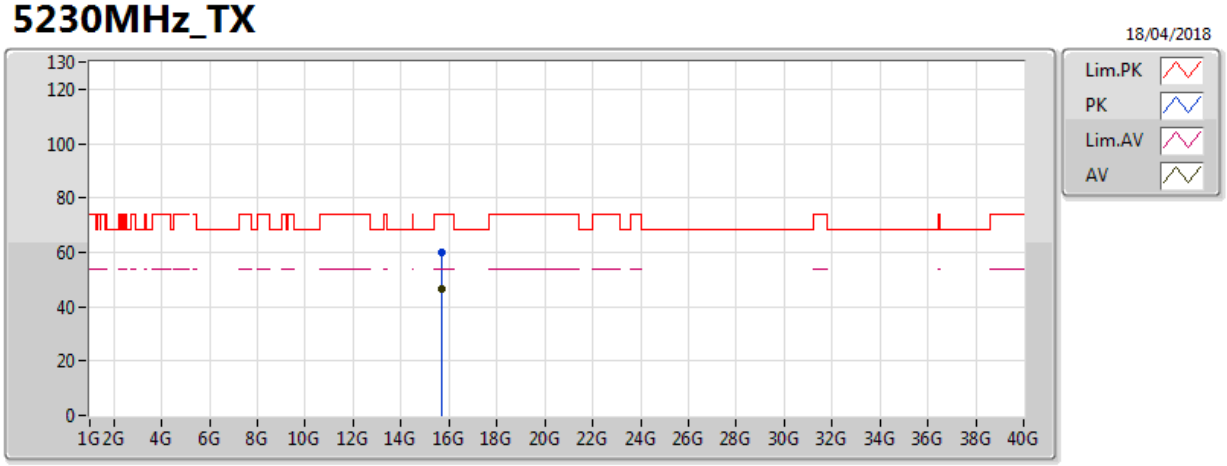


EUT Y_2TX
Setting 27
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.894G	52.35	54.00	-1.65	4.29	3	Vertical	287	1.58	-
AV	5.149995G	53.95	54.00	-0.05	4.90	3	Vertical	287	1.58	-
PK	5.146G	67.50	74.00	-6.50	4.89	3	Vertical	287	1.58	-
AV	5.224G	106.00	Inf	-Inf	5.07	3	Vertical	287	1.58	-
PK	5.228G	115.90	Inf	-Inf	5.09	3	Vertical	287	1.58	-
AV	5.36G	49.89	54.00	-4.11	5.64	3	Vertical	287	1.58	-
PK	5.502G	61.10	68.20	-7.10	6.01	3	Vertical	287	1.58	-
PK	4.914G	60.95	74.00	-13.05	4.36	3	Vertical	287	1.58	-
PK	5.358G	62.41	74.00	-11.59	5.63	3	Vertical	287	1.58	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

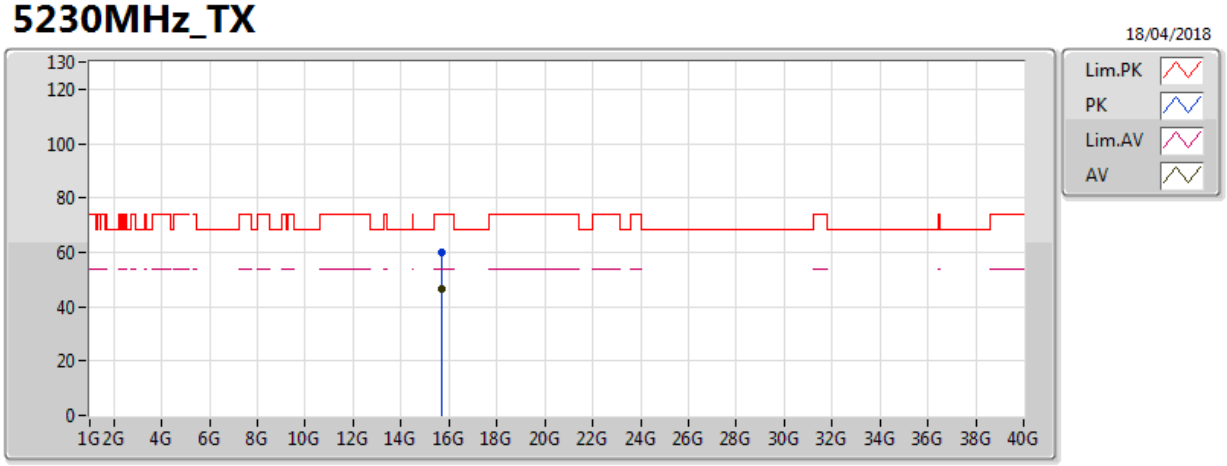


EUT Y_2TX
Setting 27
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.6809G	60.05	74.00	-13.95	15.71	3	Vertical	103	1.51	-
AV	15.6723G	46.39	54.00	-7.61	15.72	3	Vertical	103	1.51	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5230MHz_TX

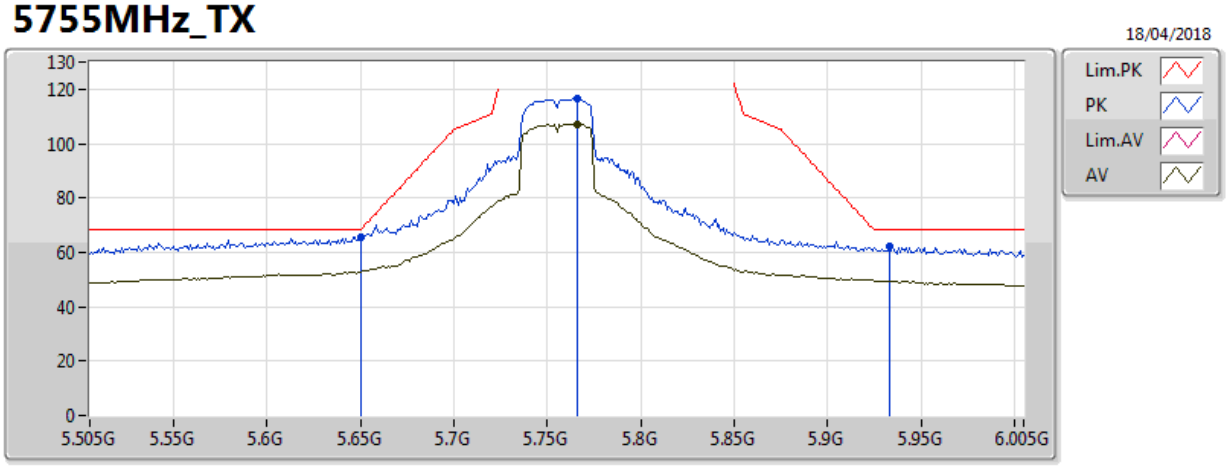


EUT Y_2TX
Setting 27
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.6693G	59.86	74.00	-14.14	15.73	3	Horizontal	301	1.50	-
AV	15.6684G	46.33	54.00	-7.67	15.73	3	Horizontal	301	1.50	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

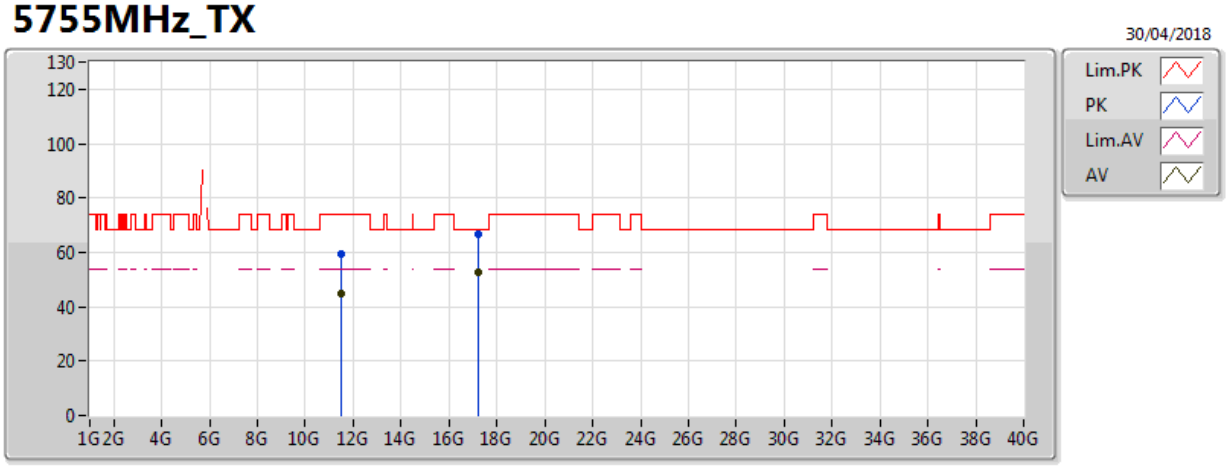


EUT Y_2TX
Setting 27
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.65G	65.36	68.20	-2.84	6.48	3	Vertical	286	1.49	-
PK	5.766G	116.59	Inf	-Inf	6.96	3	Vertical	286	1.49	-
AV	5.766G	107.28	Inf	-Inf	6.96	3	Vertical	286	1.49	-
PK	5.933G	62.17	68.20	-6.03	7.35	3	Vertical	286	1.49	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

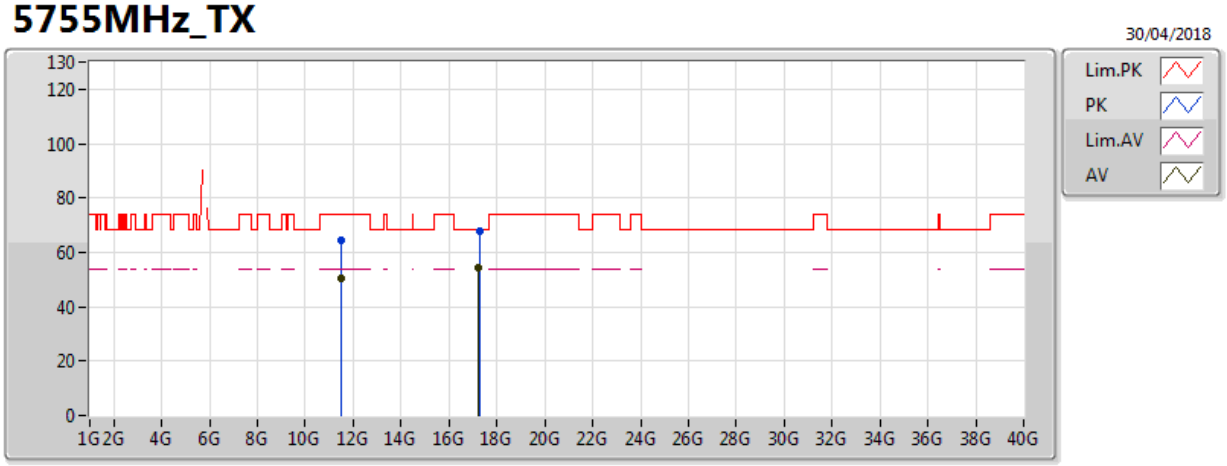


EUT Y_2TX
Setting 27
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.501G	59.28	74.00	-14.72	13.33	3	Vertical	88	1.91	-
AV	11.5096G	45.00	54.00	-9.00	13.33	3	Vertical	88	1.91	-
PK	17.2462G	66.48	68.20	-1.72	20.14	3	Vertical	74	1.77	-
AV	17.2458G	52.51	Inf	-Inf	20.13	3	Vertical	74	1.77	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5755MHz_TX

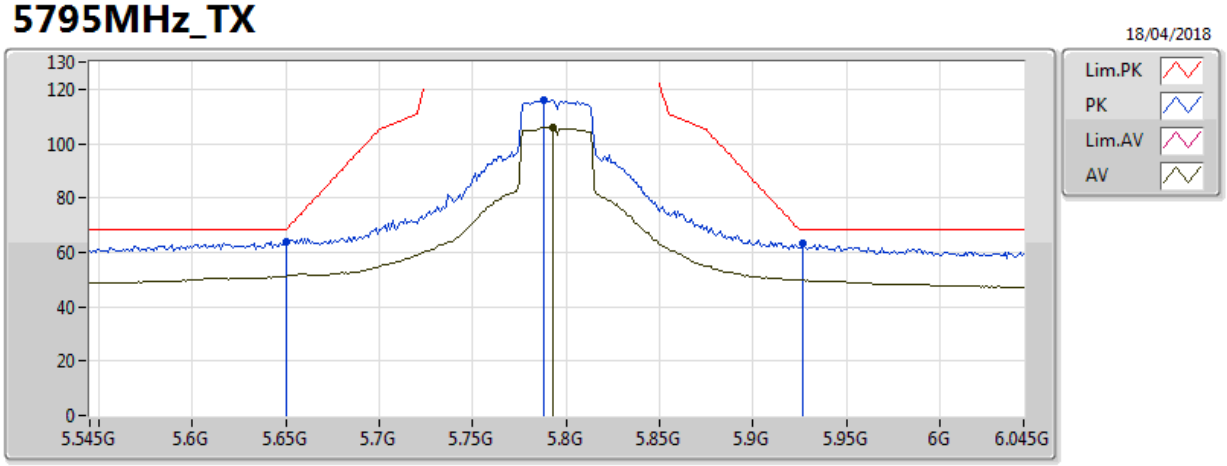


EUT Y_2TX
Setting 27
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5034G	64.30	74.00	-9.70	13.33	3	Horizontal	166	1.86	-
AV	11.5096G	50.44	54.00	-3.56	13.33	3	Horizontal	166	1.86	-
PK	17.2672G	68.04	68.20	-0.16	20.19	3	Horizontal	36	1.75	-
AV	17.2546G	54.38	Inf	-Inf	20.16	3	Horizontal	36	1.75	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

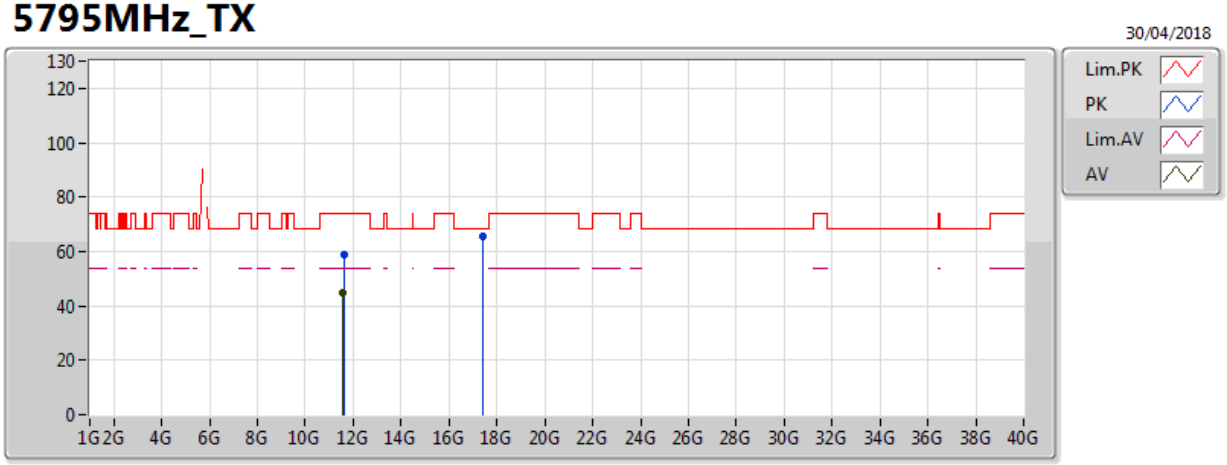


EUT Y_2TX
Setting 28
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.65G	63.67	68.20	-4.53	6.48	3	Vertical	290	1.50	-
PK	5.788G	115.96	Inf	-Inf	7.05	3	Vertical	290	1.50	-
AV	5.793G	105.98	Inf	-Inf	7.07	3	Vertical	290	1.50	-
PK	5.927G	63.16	68.20	-5.04	7.34	3	Vertical	290	1.50	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

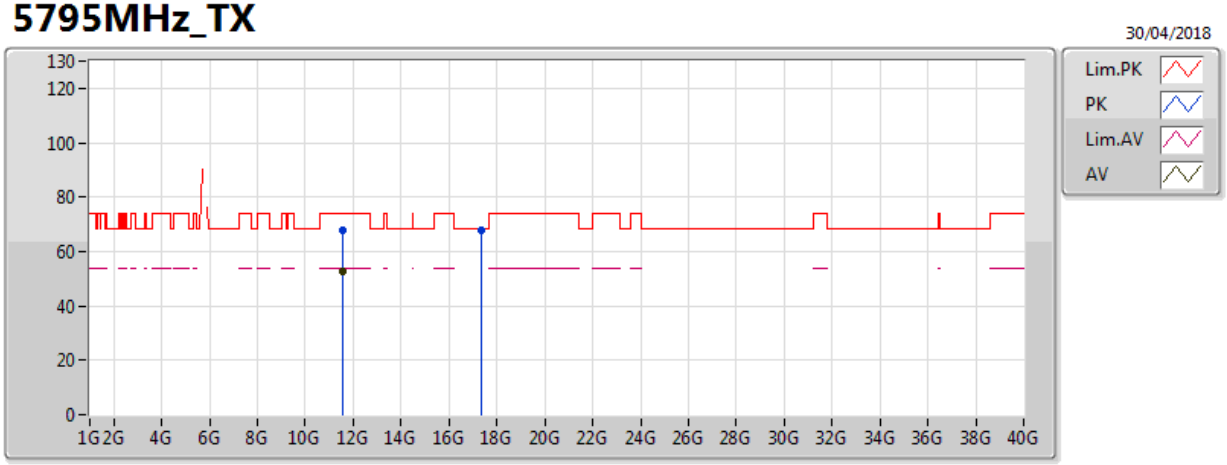


EUT Y_2TX
Setting 28
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5958G	58.66	74.00	-15.34	13.33	3	Vertical	143	1.89	-
AV	11.59G	44.97	54.00	-9.03	13.33	3	Vertical	143	1.89	-
PK	17.3894G	65.66	68.20	-2.54	20.49	3	Vertical	98	1.65	-

802.11ac VHT40-BF_Nss1,(MCS0)_2TX

5795MHz_TX

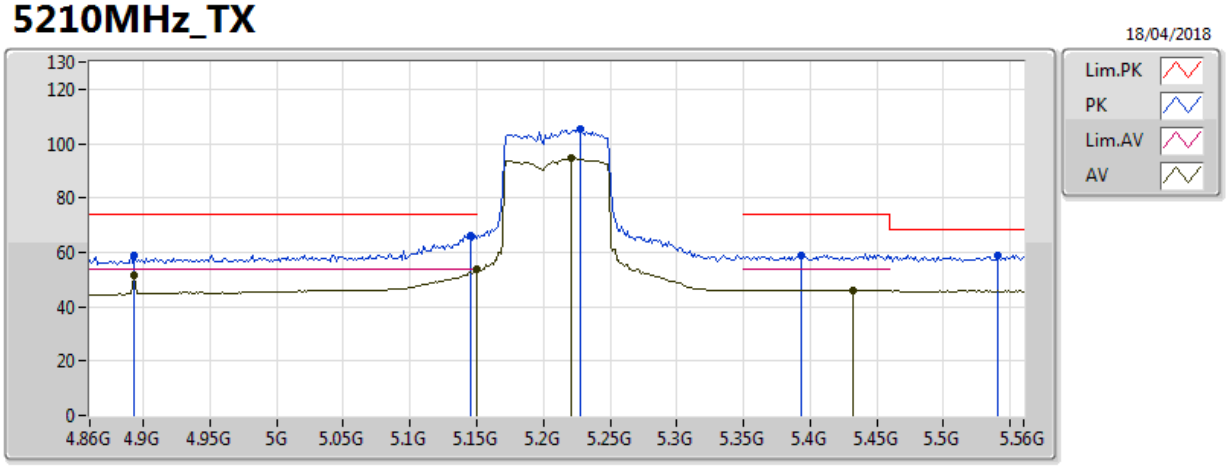


EUT Y_2TX
Setting 28
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5908G	67.53	74.00	-6.47	13.33	3	Horizontal	16	1.57	-
AV	11.5898G	52.45	54.00	-1.55	13.33	3	Horizontal	16	1.57	-
PK	17.368G	68.03	68.20	-0.17	20.44	3	Horizontal	99	2.12	-

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

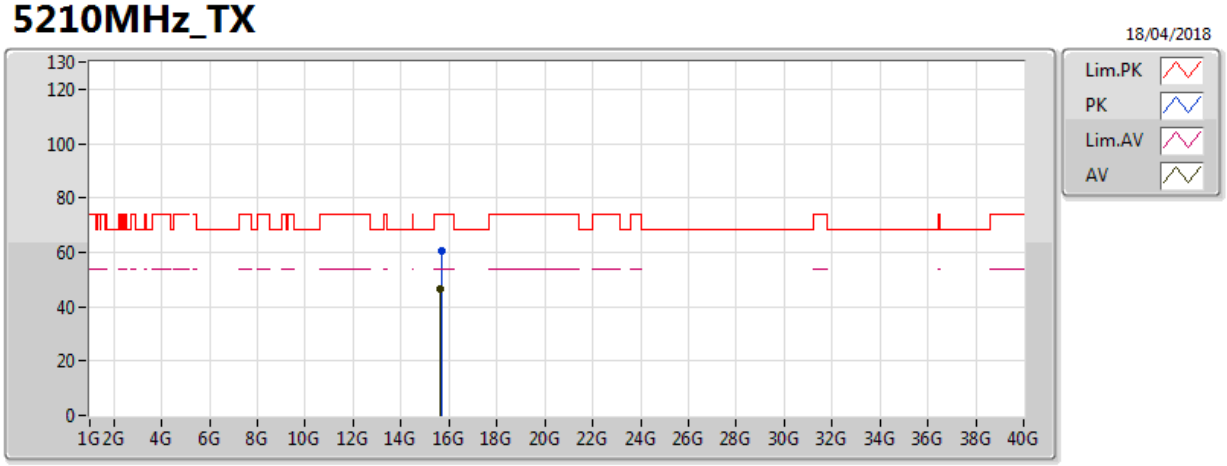


EUT Y_2TX
Setting 10
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8936G	59.10	74.00	-14.90	4.28	3	Vertical	290	1.83	-
AV	4.8936G	51.39	54.00	-2.61	4.28	3	Vertical	290	1.83	-
PK	5.1456G	66.20	74.00	-7.80	4.89	3	Vertical	290	1.83	-
AV	5.1498G	53.62	54.00	-0.38	4.90	3	Vertical	290	1.83	-
PK	5.2282G	105.31	Inf	-Inf	5.09	3	Vertical	290	1.83	-
AV	5.2212G	94.65	Inf	-Inf	5.06	3	Vertical	290	1.83	-
PK	5.5404G	58.92	68.20	-9.28	6.10	3	Vertical	290	1.83	-
AV	5.4326G	46.13	54.00	-7.87	5.86	3	Vertical	290	1.83	-
PK	5.3934G	58.87	74.00	-15.13	5.76	3	Vertical	290	1.83	-

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

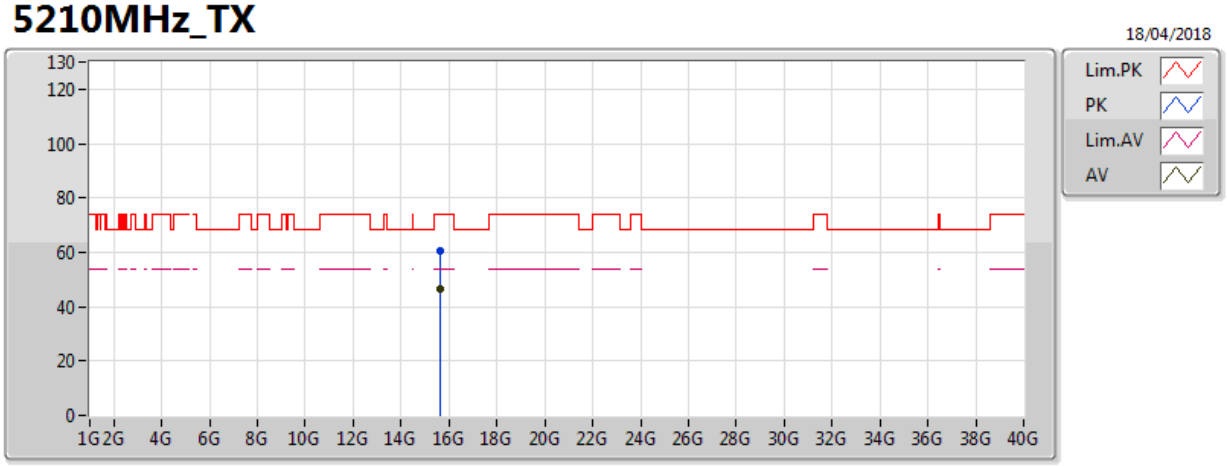


EUT Y_2TX
Setting 10
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.6776G	60.41	74.00	-13.59	15.71	3	Vertical	310	2.96	-
AV	15.6476G	46.67	54.00	-7.33	15.76	3	Vertical	310	2.96	-

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5210MHz_TX

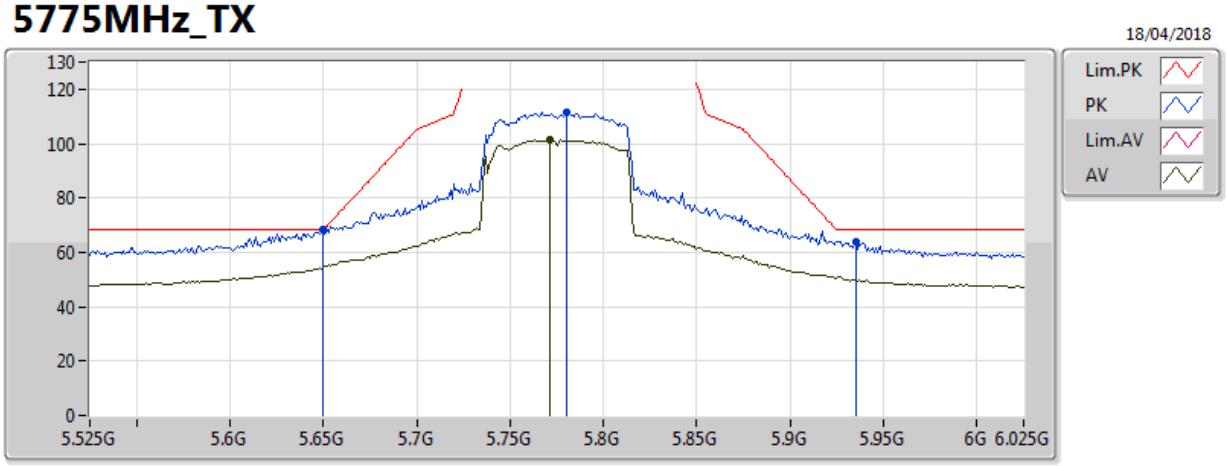


EUT Y_2TX
Setting 10
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	15.603G	60.73	74.00	-13.27	15.83	3	Horizontal	18	1.50	-
AV	15.6418G	46.72	54.00	-7.28	15.77	3	Horizontal	18	1.50	-

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

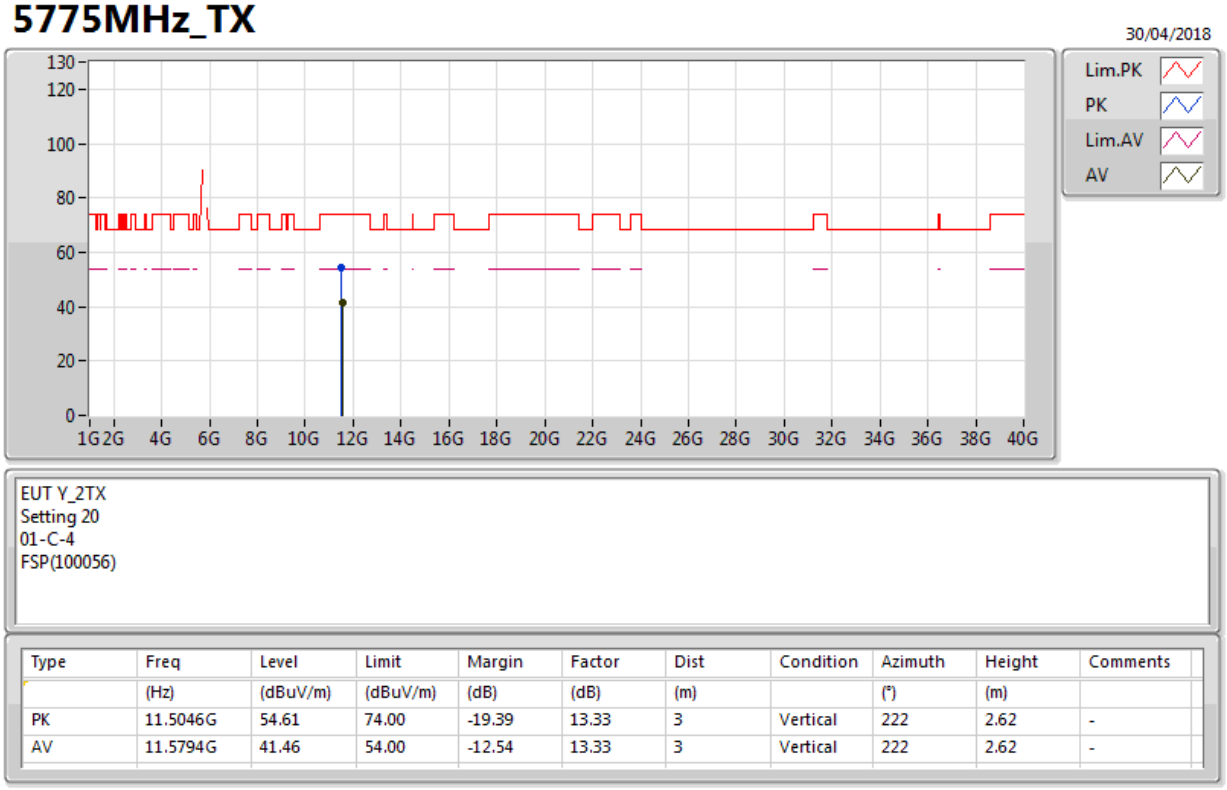


EUT Y_2TX
Setting 20
01-C-4-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	5.65G	68.17	68.20	-0.03	6.48	3	Vertical	116	1.50	-
PK	5.78G	111.41	Inf	-Inf	7.02	3	Vertical	116	1.50	-
AV	5.771G	101.32	Inf	-Inf	6.98	3	Vertical	116	1.50	-
PK	5.935G	63.80	68.20	-4.40	7.36	3	Vertical	116	1.50	-

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

5775MHz_TX

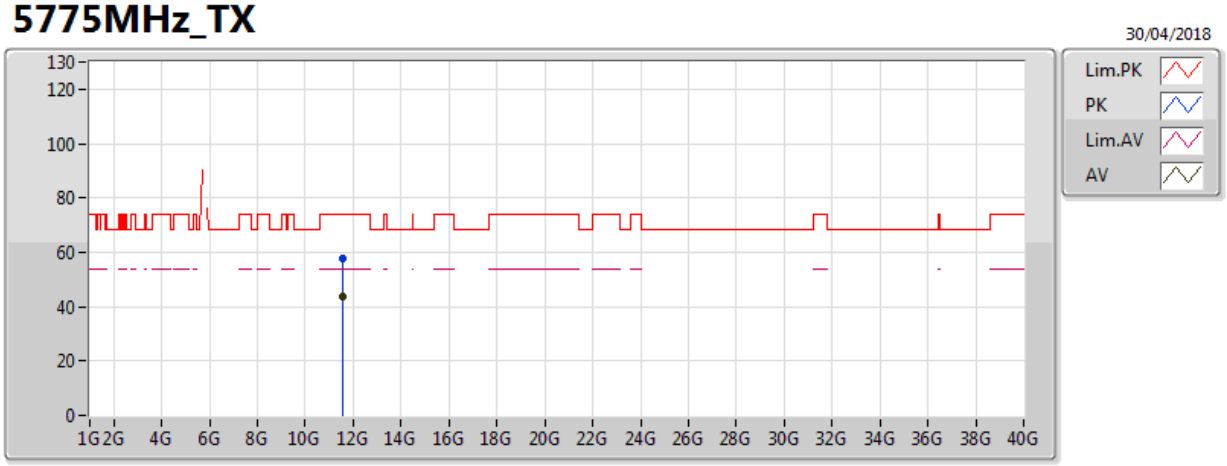


EUT Y_2TX
Setting 20
01-C-4
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5046G	54.61	74.00	-19.39	13.33	3	Vertical	222	2.62	-
AV	11.5794G	41.46	54.00	-12.54	13.33	3	Vertical	222	2.62	-

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

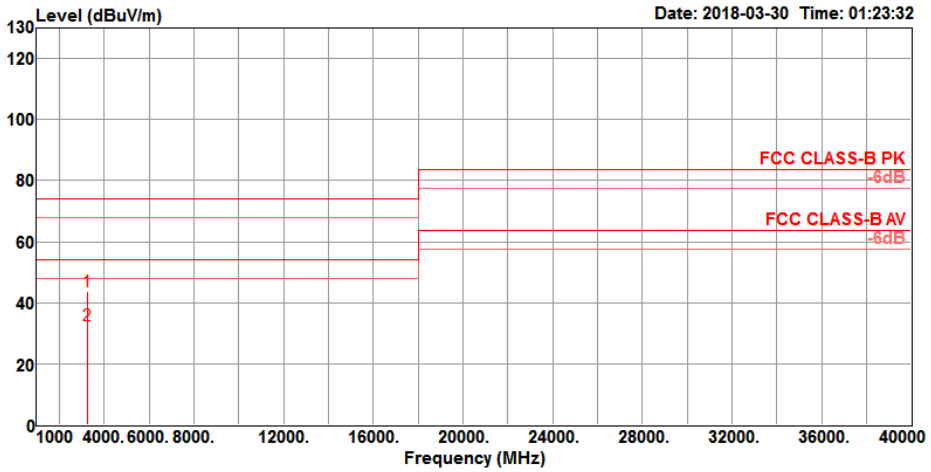
5775MHz_TX



EUT Y_2TX
Setting 20
01-C-4
FSP(100056)

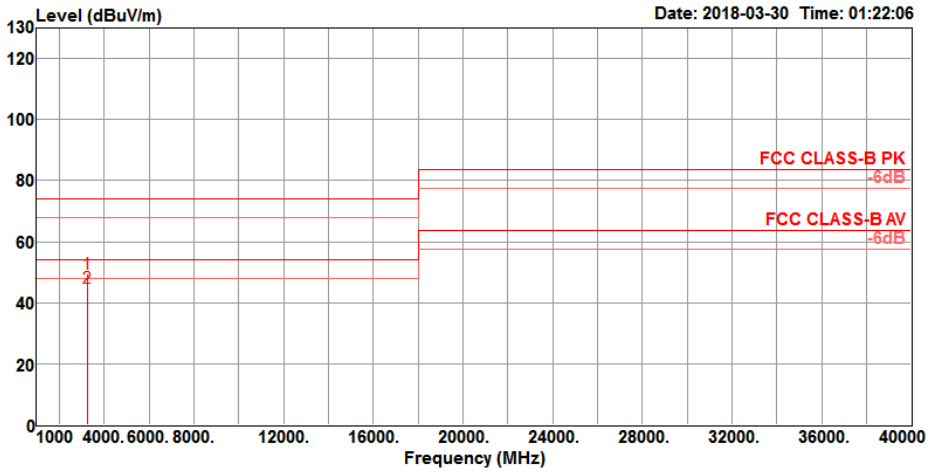
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	11.5714G	57.60	74.00	-16.40	13.33	3	Horizontal	142	1.71	-
AV	11.5912G	43.47	54.00	-10.53	13.33	3	Horizontal	142	1.71	-

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	3236.03	43.63	74.00	-30.37	41.74	5.80	28.75	32.66	160	269	Peak	HORIZONTAL
2	3236.04	32.79	54.00	-21.21	30.90	5.80	28.75	32.66	160	269	Average	HORIZONTAL

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	3235.99	49.54	74.00	-24.46	47.65	5.80	28.75	32.66	177	150	Peak	VERTICAL
2	3236.00	44.78	54.00	-9.22	42.89	5.80	28.75	32.66	177	150	Average	VERTICAL