FCC Test Report

Equipment	:	CGA2121 FAMILY, 24x8 D3.0 GTWY
Brand Name	:	technicolor
Model No.	:	CGA2121
FCC ID	:	N89-CGA2121
Standard	:	47 CFR FCC Part 15.407
Operating Band	:	5150 MHz – 5250 MHz 5725 MHz – 5850 MHz
Applicant	:	CyberTAN Technology Inc. No. 99, Park Avenue III, Science-based Industrial Park Hsinchu, 308 Taiwan
Manufacturer	:	CyberTAN Technology Inc. No. 99, Park Avenue III, Science-based Industrial Park Hsinchu, 308 Taiwan
Function	:	☐ Outdoor; ☒ Indoor; ☐ Fixed P2P ☐ Client
TPC Function	:	☒ With TPC ☐ Without TPC

The product sample received on Nov. 27, 2017 and completely tested on Jan. 02, 2018. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Sam Chen
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

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Summary of Test Result

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

Revision History

Report No.	Version	Description	Issued Date
FR733013-01AB	Rev. 01	Initial issue of report	Mar. 13, 2018

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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	3TX
5.15-5.25GHz	802.11n HT20	20	3TX
5.15-5.25GHz	802.11n HT20-BF	20	3TX
5.15-5.25GHz	802.11ac VHT20	20	3TX
5.15-5.25GHz	802.11ac VHT20-BF	20	3TX
5.15-5.25GHz	802.11n HT40	40	3TX
5.15-5.25GHz	802.11n HT40-BF	40	3TX
5.15-5.25GHz	802.11ac VHT40	40	3TX
5.15-5.25GHz	802.11ac VHT40-BF	40	3TX
5.15-5.25GHz	802.11ac VHT80	80	3TX
5.15-5.25GHz	802.11ac VHT80-BF	80	3TX
5.725-5.85GHz	802.11a	20	3TX
5.725-5.85GHz	802.11n HT20	20	3TX
5.725-5.85GHz	802.11n HT20-BF	20	3TX
5.725-5.85GHz	802.11ac VHT20	20	3TX
5.725-5.85GHz	802.11ac VHT20-BF	20	3TX
5.725-5.85GHz	802.11n HT40	40	3TX
5.725-5.85GHz	802.11n HT40-BF	40	3TX
5.725-5.85GHz	802.11ac VHT40	40	3TX
5.725-5.85GHz	802.11ac VHT40-BF	40	3TX
5.725-5.85GHz	802.11ac VHT80	80	3TX
5.725-5.85GHz	802.11ac VHT80-BF	80	3TX

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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	Model Name	Antenna Type	Connector	Gain (dBi)
1	2	ARISTOTLE	RFA-25-AP518-70BL-52	PCB Antenna	I-PEX	
2	1	ARISTOTLE	RFA-25-AP518-70B-52	PCB Antenna	I-PEX	Note1
3	3	ARISTOTLE	RFA-05-AP518-79-125	PCB Antenna	I-PEX	

Note1:

Ant.	Port	Gain (dBi)		
		2.4GHz	5GHz Band 1	5GHz Band 4
1	2	3.5	4.5	4.5
2	1	3.0	4.0	4.0
3	3	-	4.5	4.5

Note2: The EUT has three antennas.

<For 2.4GHz Band>

For IEEE 802.11b mode (1TX/2RX)

The EUT supports 1TX/2RX function, and it supports TX diversity function.

Both Port 1 and Port 2 could be used as transmitting antenna, but only one of them will be used at one time. Port 1 and Port 2 could receive simultaneously.

For TX function: Port 2 generated the worst case than Port 1, so it is tested and recorded in the report.

For IEEE 802.11g/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 (3TX/3RX)

Port 1, Port 2 and Port 3 can be used as transmitting/receiving antenna.

Port 1, Port 2 and Port 3 could transmit/receive simultaneously.

1.1.3   Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.988	0.052	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT20	0.986	0.061	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT20-BF	0.986	0.061	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.971	0.128	952.5u	3k
802.11ac VHT40-BF	0.971	0.128	952.5u	3k
802.11ac VHT80	0.944	0.25	460.625u	3k
802.11ac VHT80-BF	0.944	0.25	460.625u	3k

1.1.4   EUT Operational Condition

EUT Power Type	From Power Adapter
Beamforming Function	☒ With beamforming 802.11n/ac in 5GHz ☐ Without beamforming
Test Software Version	MTool_2.0.1.0

1.1.5   Table for Multiple Listing

The two EUTs which are identical to each other in all aspects except for the following table:

EUT	EUT 1		EUT 2	
Location	Value	Part Number	Value	Part Number
C1304	4.7pF	202.01109.025	C/7.5pF +-0.1pF/0402/NPO	202.01280.005
C1305	20pF	202.00069.005	39pF	202.01305.005
C1306	20pF	202.00069.005	36pF	202.01334.005
C1307	11pF	202.01395.005	27pF	202.01149.025
C1308	18pF	202.00056.005	47pF	202.01293.005
C1309	27pF	202.01149.025	56pF	202.01236.005
C1310	20pF	202.00069.005	39pF	202.01305.005
C1311	22pF	202.01137.015	36pF	202.01334.005
C1312	27pF	202.01149.025	62pF	202.01335.005
C1320	33pF	202.00097.005	56pF	202.00125.005
C1325	16pF	202.01201.005	33pF	202.01297.005
C1326	13pF	202.00048.005	36pF	202.01334.005
C1327	13pF	202.00048.005	30pF	202.01304.005
C1328	36pF	202.01122.005	68pF	202.01313.005
C1329	27pF	202.01149.025	47pF	202.01293.005
C1330	150pF	202.01121.005	220pF	202.01336.005
L1300	150nH	132.00596.005	330nH	132.01497.005
L1301	100nH	132.01595.005	220nH	132.01484.005
L1302	100nH	132.01595.005	220nH	132.01484.005
L1303	150nH	132.00596.005	270nH	132.00595.005
L1308	220nH	132.01312.005	390nH	132.00715.005
L1313	120nH	132.00837.005	270nH	132.01234.005
L1315	120nH	132.00837.005	330nH	2005-21330011R
L1317	82nH	132.01116.005	180nH	2005-21180008R

Note : There are two colors (White / Black) of the EUT and all material of them are identical except for the case color.

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	Brian Sun	22°C / 54%	Nov. 27, 2017 ~ Dec. 29, 2017
Radiated	03CH01-CB	Cola Fan & Zero Chen	22°C / 54%	Dec. 05, 2017 ~ Jan. 02, 2018
AC Conduction	CO01-CB	Wei Li	24°C / 52%	Dec. 06, 2017

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

1.4   Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	Confidence levels of 95%

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2   Test Configuration of EUT

2.1   Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_3TX	-
5180MHz	84
5200MHz	84
5240MHz	85
5745MHz	86
5785MHz	87
5825MHz	87
802.11ac VHT20_Nss1,(MCS0)_3TX	-
5180MHz	86
5200MHz	86
5240MHz	86
5745MHz	87
5785MHz	87
5825MHz	87
802.11ac VHT40_Nss1,(MCS0)_3TX	-
5190MHz	69
5230MHz	84
5755MHz	84
5795MHz	86
802.11ac VHT80_Nss1,(MCS0)_3TX	-
5210MHz	67
5775MHz	82
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	-
5180MHz	85
5200MHz	86
5240MHz	86
5745MHz	85
5785MHz	86
5825MHz	86
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	-
5190MHz	66
5230MHz	84
5755MHz	84

Mode	Power Setting
5795MHz	85
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	-
5210MHz	66
5775MHz	84

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 in 5GHz, Beamforming mode and non-beamforming mode has been test and record in this test report.

2.2   The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT 1 in Y axis
2	EUT 2 in Y axis
Mode 1 generated the worst test result, so it was recorded in this report.	

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

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 in Y axis
2	EUT 2 in Y axis
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT 1 in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT 1 in Y axis - 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.: FA733013-01 for Co-location RF Exposure Evaluation.	

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

Note 2: All the specification of test configurations and test modes were based on customer's request.

2.3   EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.

2. Executed command fixed test channel under LanTest.

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

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	ID	Rating
Adapter	AcBel	WAG032	XXXX (X=A~Z or 0~9) (Note)	INPUT: 100-120V ~ Max. 0.8A 60Hz OUTPUT: 12V, 2.5A

Note:

1. The first and second "X" of the ID represents the customer code.

2. The third "X" of the ID represents product variant / revision.

3. The fourth "X" of the ID represents the Environmental Class.

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E6430	DoC
2	Terminal System	TOP VISION	CMTS CC8800	DoC
3	Phone*2	PHILIPS	M20	DoC
4	PC	DELL	OPTIPLEX	DoC
5	LCD Monitor	DELL	1704FPTt	DoC
6	Keyboard	iCooky	SK068	DoC
7	Mouse	HP	FM100	DoC
8	Flash disk	Transcend	JetFlash-700	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB*2	Apple	Mac Book	DoC
3	Phone*2	SAMPO	HT-B 907WL	N/A
4	Flash disk3.0	Silicon Power	B06	DoC
5	PC	DELL	OPTIPLEX	Doc
6	Terminal System	TOP VISION	CMTS CC8800	DoC
7	Keyboard	iCooky	SK068	DoC
8	Mouse	Logitech	M-U0026	DoC
9	LCD Monitor	DELL	1704FPTt	DoC

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

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

(For beamforming mode)

No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB	DELL	E4300	DoC
3	RX Device (WLAN module)	Boardcom	BCM943162ZP	QDS-BRCM1075

For Test Site No: TH01-CB

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

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2.6   Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test

Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	Coaxial cable	Yes	10m
3	RJ-45 cable	No	1.2m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	1.5m
6	RJ-45 cable*3	No	1.5m
7	RJ-11 cable	No	10m
8	RJ-11 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz

Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m
3	RJ-45 cable	No	1.5m
4	RJ-11 cable	No	0.5m
5	RJ-11 cable	No	0.5m
6	Coaxial cable	Yes	10m
7	RJ-45 cable	No	1.5m

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

AC MAIN

1   2

EUT

LAN NB
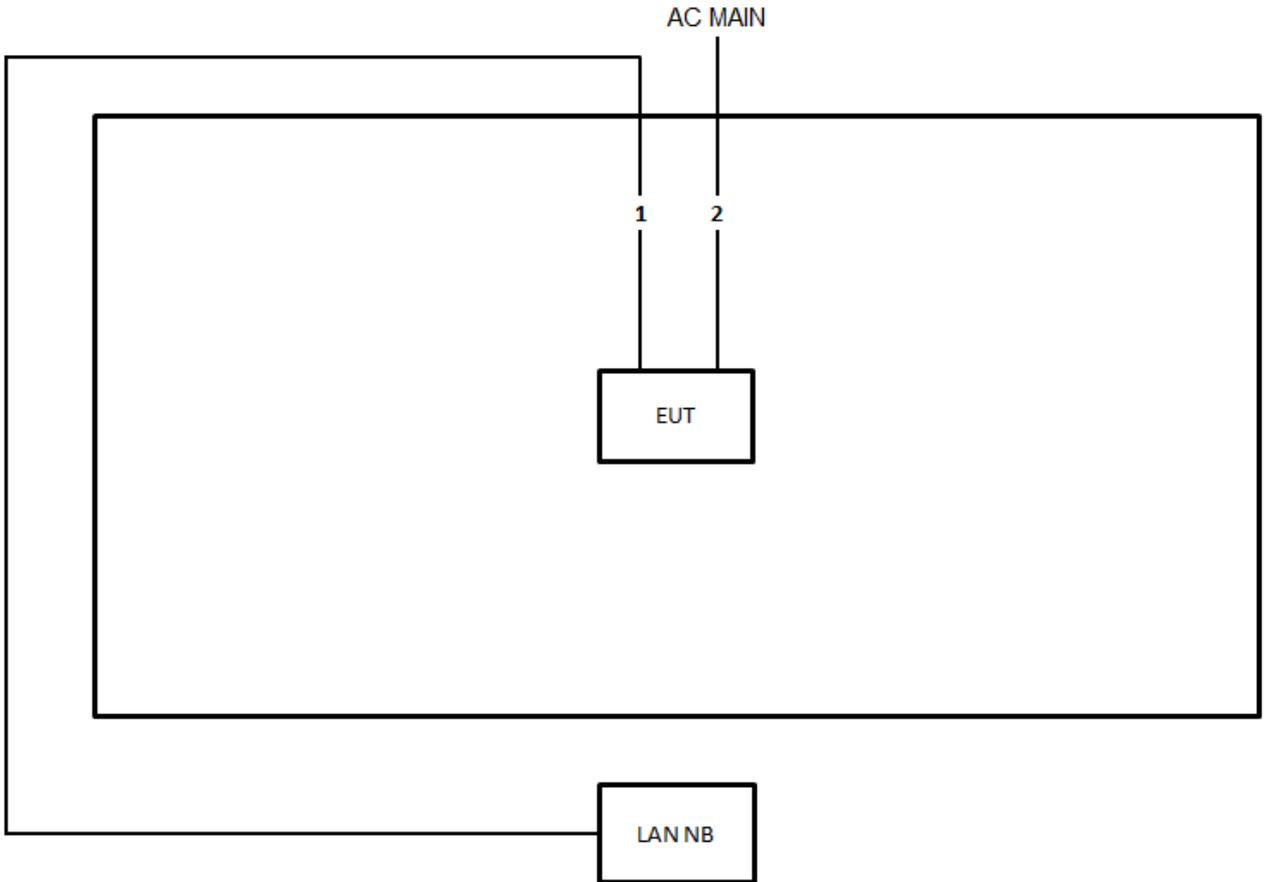
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m

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

AC MAIN

1   2

EUT

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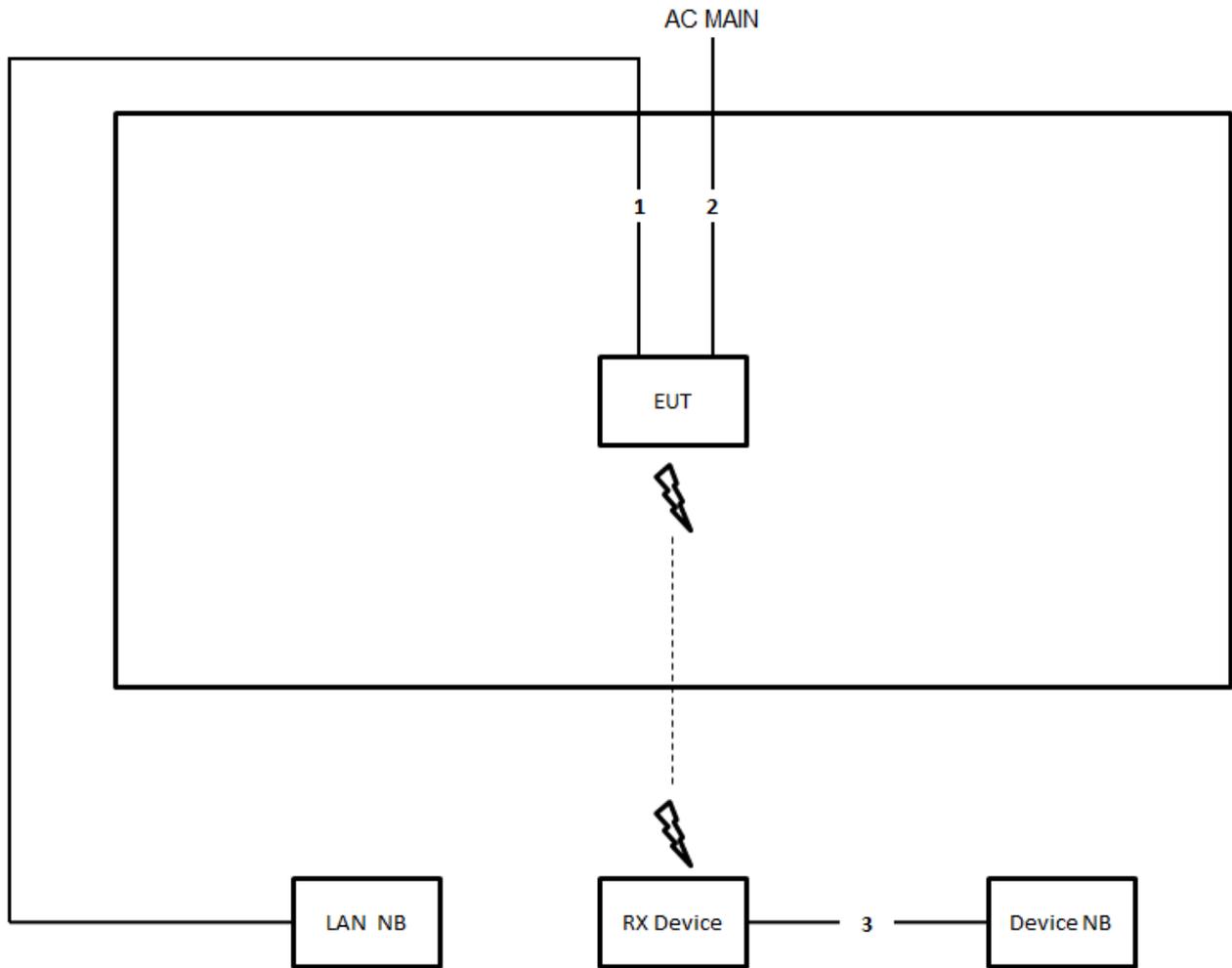
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m
3	RJ-45 cable	No	1.5m

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

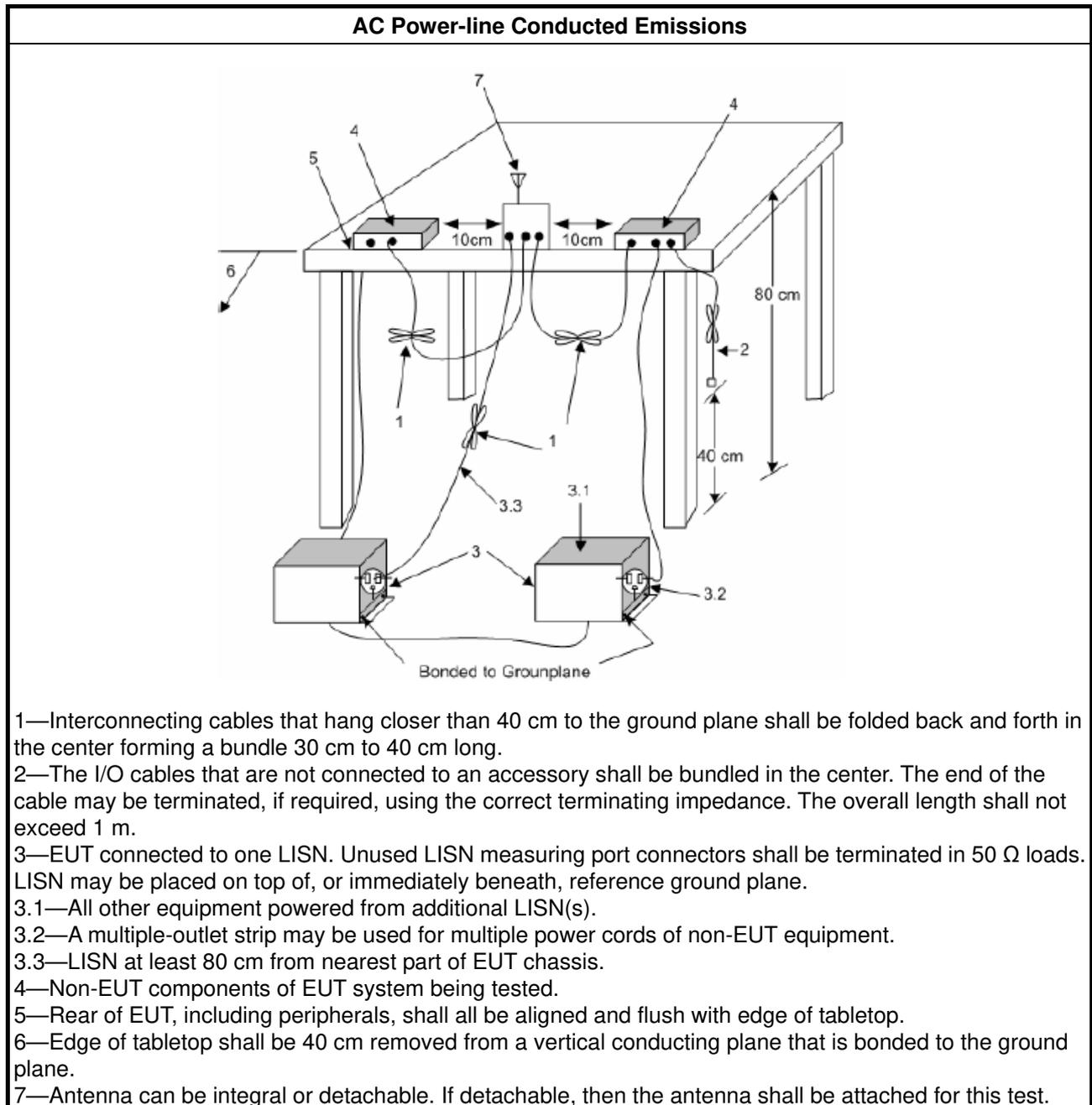| Emission Bandwidth Limit |
|---|
| **UNII Devices** |
| ☒ For the 5.15-5.25 GHz band, N/A |
| ☐ For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☐ For the 5.47-5.725 GHz band, 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

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3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

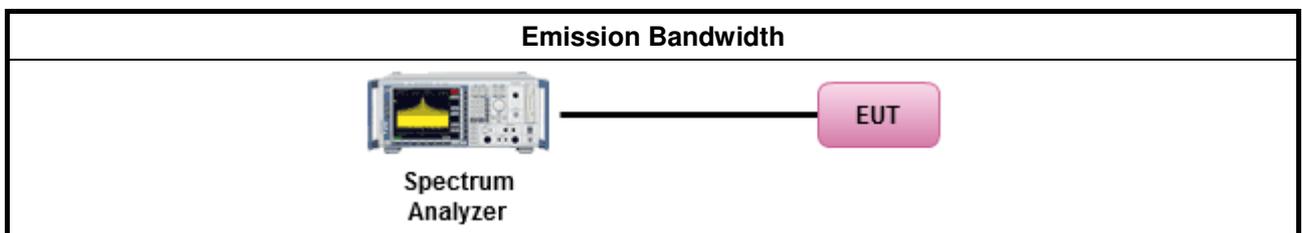| Maximum Conducted Output Power Limit |
|---|
| **UNII Devices** |
| ☒ For the 5.15-5.25 GHz band: |
| • Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 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)
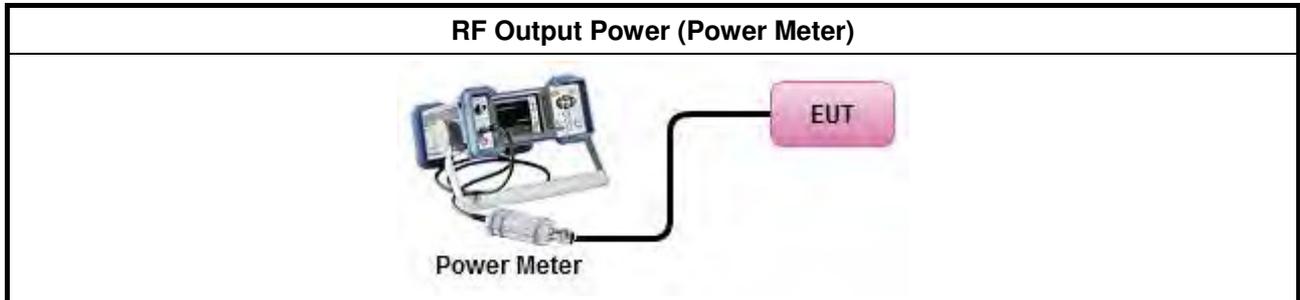
3.3.5   Test Result of Maximum Conducted Output Power

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).

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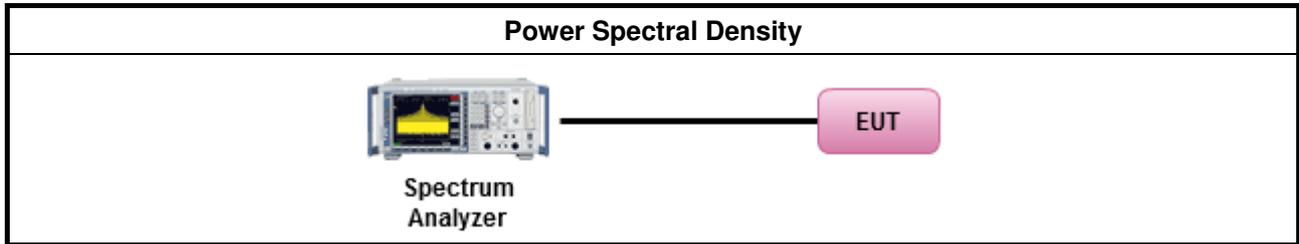FAX : 886-3-3270973   Issued Date   : Mar. 13, 2018
FCC ID: N89-CGA2121

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.
▪ 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.

3.5.6   Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

Note: 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.

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup

Frequency Stability
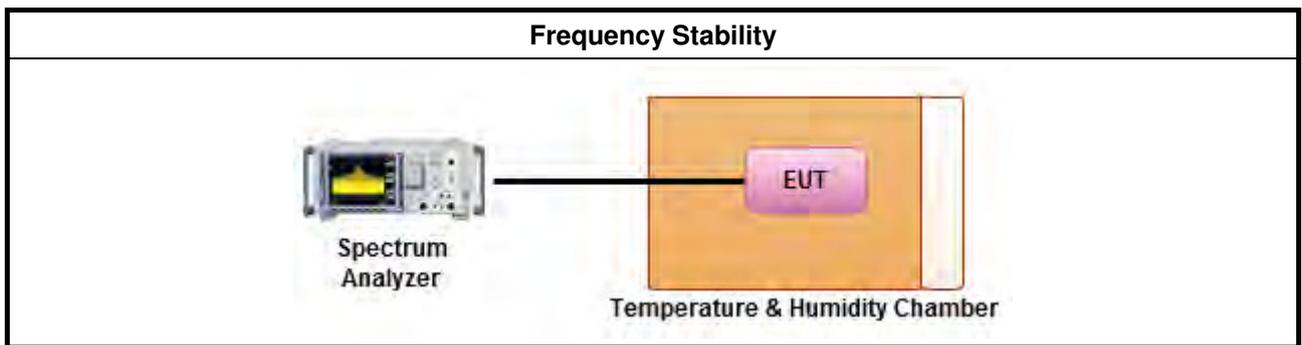
3.6.5 Test Result of Frequency Stability

Refer as Appendix F

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4   Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 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. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 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)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2017	Jun. 01, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 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.

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

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


```
                      Over    Limit   Read   LISN   Cable
              Freq   Level   Limit    Line  Level Factor   Loss Remark      Pol/Phase
             _____ _____  _____  _____ _____ _____  ____ _____     _____

              MHz    dBuV     dB      dBuV   dBuV    dB      dB

          1  0.2535  41.14  -10.50   51.64  30.97  10.08   0.09 Average     NEUTRAL
          2  0.2535  53.28   -8.36   61.64  43.11  10.08   0.09 QP          NEUTRAL
          3  0.3013  38.06  -12.15   50.21  27.85  10.15   0.06 Average     NEUTRAL
          4  0.3013  48.00  -12.21   60.21  37.79  10.15   0.06 QP          NEUTRAL
          5  0.3377  34.28  -14.98   49.26  24.05  10.19   0.04 Average     NEUTRAL
          6  0.3377  45.35  -13.91   59.26  35.12  10.19   0.04 QP          NEUTRAL
          7  0.5074  33.56  -12.44   46.00  23.28  10.22   0.06 Average     NEUTRAL
          8  0.5074  44.14  -11.86   56.00  33.86  10.22   0.06 QP          NEUTRAL
          9  0.8483  30.24  -15.76   46.00  19.98  10.10   0.16 Average     NEUTRAL
         10  0.8483  39.97  -16.03   56.00  29.71  10.10   0.16 QP          NEUTRAL
         11  0.9331  31.05  -14.95   46.00  20.80  10.07   0.18 Average     NEUTRAL
         12  0.9331  40.06  -15.94   56.00  29.81  10.07   0.18 QP          NEUTRAL
         13  1.1844  30.81  -15.19   46.00  20.59  10.03   0.19 Average     NEUTRAL
         14  1.1844  41.17  -14.83   56.00  30.95  10.03   0.19 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		

Level (dBuV) Date: 2017-12-06 Time: 10:17:09

```
            Over    Limit   Read   LISN   Cable
     Freq   Level   Limit   Line   Level  Factor  Loss  Remark     Pol/Phase
     ____   _____   _____   ____   _____  _____  ____  _____     _____
     MHz    dBuV    dB      dBuV   dBuV   dB      dB

 1   0.2416  33.16  -18.88  52.04  23.14  9.92    0.10  Average    LINE
 2   0.2416  40.73  -21.31  62.04  30.71  9.92    0.10  QP         LINE
 3   0.2534  38.79  -12.86  51.65  28.78  9.92    0.09  Average    LINE
 4   0.2534  50.27  -11.38  61.65  40.26  9.92    0.09  QP         LINE
 5   0.3410  33.37  -15.81  49.18  23.39  9.94    0.04  Average    LINE
 6   0.3410  43.71  -15.47  59.18  33.73  9.94    0.04  QP         LINE
 7   0.5065  32.05  -13.95  46.00  22.04  9.95    0.06  Average    LINE
 8   0.5065  42.38  -13.62  56.00  32.37  9.95    0.06  QP         LINE
 9   0.8438  29.09  -16.91  46.00  18.97  9.96    0.16  Average    LINE
10   0.8438  41.99  -14.01  56.00  31.87  9.96    0.16  QP         LINE
11   1.0157  30.19  -15.81  46.00  20.04  9.96    0.19  Average    LINE
12   1.0157  41.57  -14.43  56.00  31.42  9.96    0.19  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)_3TX	29.35M	16.742M	16M7D1D	26.525M	16.567M
802.11ac VHT20_Nss1,(MCS0)_3TX	36.575M	17.866M	17M9D1D	29.4M	17.741M
802.11ac VHT40_Nss1,(MCS0)_3TX	74.65M	36.432M	36M4D1D	39.5M	36.232M
802.11ac VHT80_Nss1,(MCS0)_3TX	83.5M	75.762M	75M8D1D	81.7M	75.562M
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	33.925M	17.816M	17M8D1D	26.925M	17.741M
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	83.8M	36.382M	36M4D1D	39.5M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	83.1M	75.862M	75M9D1D	81.6M	75.662M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_3TX	16.35M	20.415M	20M4D1D	16.3M	16.967M
802.11ac VHT20_Nss1,(MCS0)_3TX	17.575M	22.464M	22M5D1D	17.55M	18.091M
802.11ac VHT40_Nss1,(MCS0)_3TX	36.35M	48.826M	48M8D1D	36.3M	36.632M
802.11ac VHT80_Nss1,(MCS0)_3TX	75.3M	76.062M	76M1D1D	75.1M	75.962M
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	17.6M	18.866M	18M9D1D	17.55M	17.916M
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	36.35M	39.43M	39M4D1D	35.8M	36.432M
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	75.3M	76.462M	76M5D1D	75.1M	76.362M

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	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	27.225M	16.592M	29.325M	16.742M	29.35M	16.617M
5200MHz	Pass	Inf	26.575M	16.567M	28M	16.617M	26.525M	16.592M
5240MHz	Pass	Inf	27.3M	16.667M	29.25M	16.617M	27.625M	16.592M
5745MHz	Pass	500k	16.325M	17.016M	16.3M	17.366M	16.3M	18.016M
5785MHz	Pass	500k	16.3M	17.016M	16.3M	18.691M	16.35M	19.315M
5825MHz	Pass	500k	16.325M	16.967M	16.35M	19.365M	16.325M	20.415M
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	34.55M	17.741M	33.95M	17.841M	32.8M	17.741M
5200MHz	Pass	Inf	32.4M	17.741M	36.575M	17.841M	29.5M	17.791M
5240MHz	Pass	Inf	29.4M	17.866M	31.3M	17.766M	30.375M	17.766M
5745MHz	Pass	500k	17.55M	18.091M	17.55M	19.44M	17.575M	19.39M
5785MHz	Pass	500k	17.575M	18.366M	17.55M	22.464M	17.575M	21.114M
5825MHz	Pass	500k	17.55M	18.141M	17.55M	21.089M	17.55M	21.914M
802.11ac VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.1M	36.282M	39.5M	36.232M	39.7M	36.282M
5230MHz	Pass	Inf	70.65M	36.382M	74.65M	36.382M	65.55M	36.432M
5755MHz	Pass	500k	36.3M	36.632M	36.3M	36.882M	36.3M	41.979M
5795MHz	Pass	500k	36.3M	36.632M	36.35M	39.28M	36.3M	48.826M
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.5M	75.762M	82.6M	75.562M	81.7M	75.762M
5775MHz	Pass	500k	75.1M	75.962M	75.1M	76.062M	75.3M	76.062M
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	26.925M	17.791M	29.55M	17.816M	31.75M	17.816M
5200MHz	Pass	Inf	33.925M	17.816M	33.425M	17.816M	32.875M	17.791M
5240MHz	Pass	Inf	30.675M	17.741M	29.425M	17.816M	28.675M	17.741M
5745MHz	Pass	500k	17.575M	17.916M	17.575M	17.941M	17.575M	17.991M
5785MHz	Pass	500k	17.55M	17.966M	17.55M	18.191M	17.6M	18.691M
5825MHz	Pass	500k	17.575M	17.941M	17.575M	18.491M	17.575M	18.866M
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.85M	36.282M	39.5M	36.232M	39.6M	36.232M
5230MHz	Pass	Inf	72.3M	36.332M	83.8M	36.382M	71.6M	36.382M
5755MHz	Pass	500k	35.8M	36.532M	36.3M	36.582M	36.3M	39.43M
5795MHz	Pass	500k	36.3M	36.432M	36.3M	36.632M	36.35M	38.581M
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.1M	75.862M	81.7M	75.662M	81.6M	75.762M
5775MHz	Pass	500k	75.3M	76.362M	75.1M	76.462M	75.1M	76.462M

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)_3TX

5180MHz

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.225M	5.1653G	5.192525G	16.592M	5.171629G	5.188221G	Inf	1
29.325M	5.16375G	5.193075G	16.742M	5.171554G	5.188296G	Inf	2
29.35M	5.1637G	5.19305G	16.617M	5.171629G	5.188246G	Inf	3

802.11a_Nss1,(6Mbps)_3TX

5200MHz

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.575M	5.1855G	5.212075G	16.567M	5.191629G	5.208196G	Inf	1
28M	5.185G	5.213G	16.617M	5.191654G	5.208271G	Inf	2
26.525M	5.185375G	5.2119G	16.592M	5.191629G	5.208221G	Inf	3

802.11a_Nss1,(6Mbps)_3TX

5240MHz

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.3M	5.22535G	5.25265G	16.667M	5.231579G	5.248246G	Inf	1
29.25M	5.223775G	5.253025G	16.617M	5.231629G	5.248246G	Inf	2
27.625M	5.22545G	5.253075G	16.592M	5.231654G	5.248246G	Inf	3

802.11a_Nss1,(6Mbps)_3TX EBW

5745MHz
27/12/2017

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.736775G	5.7531G	17.016M	5.736279G	5.753496G	500k	1
16.3M	5.7368G	5.7531G	17.366M	5.736279G	5.753646G	500k	2
16.3M	5.7368G	5.7531G	18.016M	5.735905G	5.753921G	500k	3

802.11a_Nss1,(6Mbps)_3TX EBW

5785MHz
27/12/2017

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	5.7768G	5.7931G	17.016M	5.776454G	5.793471G	500k	1
16.3M	5.7768G	5.7931G	18.691M	5.77563G	5.79432G	500k	2
16.35M	5.776775G	5.793125G	19.315M	5.775355G	5.79467G	500k	3

802.11a_Nss1,(6Mbps)_3TX EBW

5825MHz
27/12/2017

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.8168G	5.833125G	16.967M	5.816479G	5.833446G	500k	1
16.35M	5.816775G	5.833125G	19.365M	5.81518G	5.834545G	500k	2
16.325M	5.816775G	5.8331G	20.415M	5.814655G	5.83507G	500k	3

802.11ac VHT20_Nss1,(MCS0)_3TX EBW

5180MHz

27/12/2017

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.55M	5.16305G	5.1976G	17.741M	5.171054G	5.188796G	Inf	1
33.95M	5.164225G	5.198175G	17.841M	5.171029G	5.188871G	Inf	2
32.8M	5.161825G	5.194625G	17.741M	5.171079G	5.188821G	Inf	3

802.11ac VHT20_Nss1,(MCS0)_3TX EBW

5200MHz

27/12/2017

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.4M	5.183525G	5.215925G	17.741M	5.191029G	5.208771G	Inf	1
36.575M	5.18185G	5.218425G	17.841M	5.191004G	5.208846G	Inf	2
29.5M	5.18445G	5.21395G	17.791M	5.191054G	5.208846G	Inf	3

802.11ac VHT20_Nss1,(MCS0)_3TX EBW

5240MHz

27/12/2017

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.4M	5.225175G	5.254575G	17.866M	5.231004G	5.248871G	Inf	1
31.3M	5.22365G	5.25495G	17.766M	5.231054G	5.248821G	Inf	2
30.375M	5.22425G	5.254625G	17.766M	5.231054G	5.248821G	Inf	3

802.11ac VHT20_Nss1,(MCS0)_3TX   EBW

5745MHz
27/12/2017

Ch Freq	5.745GHz
Span	50MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

Ch Freq	5.745GHz
Span	50MHz
RBW	200kHz
VBW	1MHz
Sweep Time	100ms
Detector Type	Sample

Port 1
Port 2
Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.736175G	5.753725G	18.091M	5.73588G	5.753971G	500k	1
17.55M	5.7362G	5.75375G	19.44M	5.735255G	5.754695G	500k	2
17.575M	5.736175G	5.75375G	19.39M	5.735255G	5.754645G	500k	3

802.11ac VHT20_Nss1,(MCS0)_3TX   EBW

5785MHz
27/12/2017

Ch Freq	5.785GHz
Span	50MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

Ch Freq	5.785GHz
Span	50MHz
RBW	300kHz
VBW	1MHz
Sweep Time	100ms
Detector Type	Sample

Port 1
Port 2
Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.776175G	5.79375G	18.366M	5.77573G	5.794095G	500k	1
17.55M	5.776175G	5.793725G	22.464M	5.773756G	5.796219G	500k	2
17.575M	5.776175G	5.79375G	21.114M	5.77428G	5.795395G	500k	3

802.11ac VHT20_Nss1,(MCS0)_3TX   EBW

5825MHz
27/12/2017

Ch Freq	5.825GHz
Span	50MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

Ch Freq	5.825GHz
Span	50MHz
RBW	300kHz
VBW	1MHz
Sweep Time	100ms
Detector Type	Sample

Port 1
Port 2
Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.816175G	5.833725G	18.141M	5.815905G	5.834045G	500k	1
17.55M	5.816175G	5.833725G	21.089M	5.81443G	5.83552G	500k	2
17.55M	5.8162G	5.83375G	21.914M	5.813706G	5.83562G	500k	3

802.11ac VHT40_Nss1,(MCS0)_3TX   EBW

5190MHz
27/12/2017

Ch Freq	Span	RBW	VBW	Sweep Time	Detector Type
5.19GHz	100MHz	500kHz	2MHz	100ms	Peak

Ch Freq	Span	RBW	VBW	Sweep Time	Detector Type
5.19GHz	100MHz	500kHz	2MHz	100ms	Sample

Port 1 / Port 2 / Port 3

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.1M	5.16985G	5.20995G	36.282M	5.171809G	5.208091G	Inf	1
39.5M	5.17015G	5.20965G	36.232M	5.171809G	5.208041G	Inf	2
39.7M	5.17005G	5.20975G	36.282M	5.171809G	5.208091G	Inf	3

802.11ac VHT40_Nss1,(MCS0)_3TX   EBW

5230MHz
27/12/2017

Ch Freq	Span	RBW	VBW	Sweep Time	Detector Type
5.23GHz	100MHz	1MHz	3MHz	100ms	Peak

Ch Freq	Span	RBW	VBW	Sweep Time	Detector Type
5.23GHz	100MHz	500kHz	2MHz	100ms	Sample

Port 1 / Port 2 / Port 3

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
70.65M	5.1954G	5.26605G	36.382M	5.211759G	5.248141G	Inf	1
74.65M	5.192G	5.26665G	36.382M	5.211759G	5.248141G	Inf	2
65.55M	5.19915G	5.2647G	36.432M	5.211759G	5.248191G	Inf	3

802.11ac VHT40_Nss1,(MCS0)_3TX   EBW

5755MHz
27/12/2017

Ch Freq	Span	RBW	VBW	Sweep Time	Detector Type
5.755GHz	100MHz	100kHz	300kHz	100ms	Peak

Ch Freq	Span	RBW	VBW	Sweep Time	Detector Type
5.755GHz	100MHz	500kHz	2MHz	100ms	Sample

Port 1 / Port 2 / Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.7368G	5.7731G	36.632M	5.736609G	5.773241G	500k	1
36.3M	5.7368G	5.7731G	36.882M	5.736459G	5.773341G	500k	2
36.3M	5.7368G	5.7731G	41.979M	5.73421G	5.776189G	500k	3

802.11ac VHT40_Nss1,(MCS0)_3TX   EBW

5795MHz
27/12/2017

Ch Freq	5.795GHz
Span	100MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

Ch Freq	5.795GHz
Span	100MHz
RBW	500kHz
VBW	2MHz
Sweep Time	100ms
Detector Type	Sample

Port 1, Port 2, Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.7768G	5.8131G	36.632M	5.776609G	5.813241G	500k	1
36.35M	5.7768G	5.81315G	39.28M	5.77501G	5.81429G	500k	2
36.3M	5.7768G	5.8131G	48.826M	5.770312G	5.819138G	500k	3

802.11ac VHT80_Nss1,(MCS0)_3TX   EBW

5210MHz
27/12/2017

Ch Freq	5.21GHz
Span	200MHz
RBW	1MHz
VBW	3MHz
Sweep Time	100ms
Detector Type	Peak

Ch Freq	5.21GHz
Span	200MHz
RBW	1MHz
VBW	3MHz
Sweep Time	100ms
Detector Type	Sample

Port 1, Port 2, Port 3

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.5M	5.1683G	5.2518G	75.762M	5.172019G	5.247781G	Inf	1
82.6M	5.1688G	5.2514G	75.562M	5.172119G	5.247681G	Inf	2
81.7M	5.1691G	5.2508G	75.762M	5.172019G	5.247781G	Inf	3

802.11ac VHT80_Nss1,(MCS0)_3TX   EBW

5775MHz
27/12/2017

Ch Freq	5.775GHz
Span	200MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

Ch Freq	5.775GHz
Span	200MHz
RBW	1MHz
VBW	3MHz
Sweep Time	100ms
Detector Type	Sample

Port 1, Port 2, Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.1M	5.7374G	5.8125G	75.962M	5.736919G	5.812881G	500k	1
75.1M	5.7374G	5.8125G	76.062M	5.736819G	5.812881G	500k	2
75.3M	5.7374G	5.8127G	76.062M	5.736919G	5.812981G	500k	3

802.11ac VHT20-BF_Nss1,(MCS0)_3TX   EBW

5180MHz

27/12/2017

Ch Freq: 5.18GHz
Span: 50MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
Detector Type: Peak

Port 1
Port 2
Port 3

Ch Freq: 5.18GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.925M	5.16575G	5.192675G	17.791M	5.171029G	5.188821G	Inf	1
29.55M	5.1643G	5.19385G	17.816M	5.171029G	5.188846G	Inf	2
31.75M	5.163125G	5.194875G	17.816M	5.171029G	5.188846G	Inf	3

802.11ac VHT20-BF_Nss1,(MCS0)_3TX   EBW

5200MHz

27/12/2017

Ch Freq: 5.2GHz
Span: 50MHz
RBW: 500kHz
VBW: 2MHz
Sweep Time: 100ms
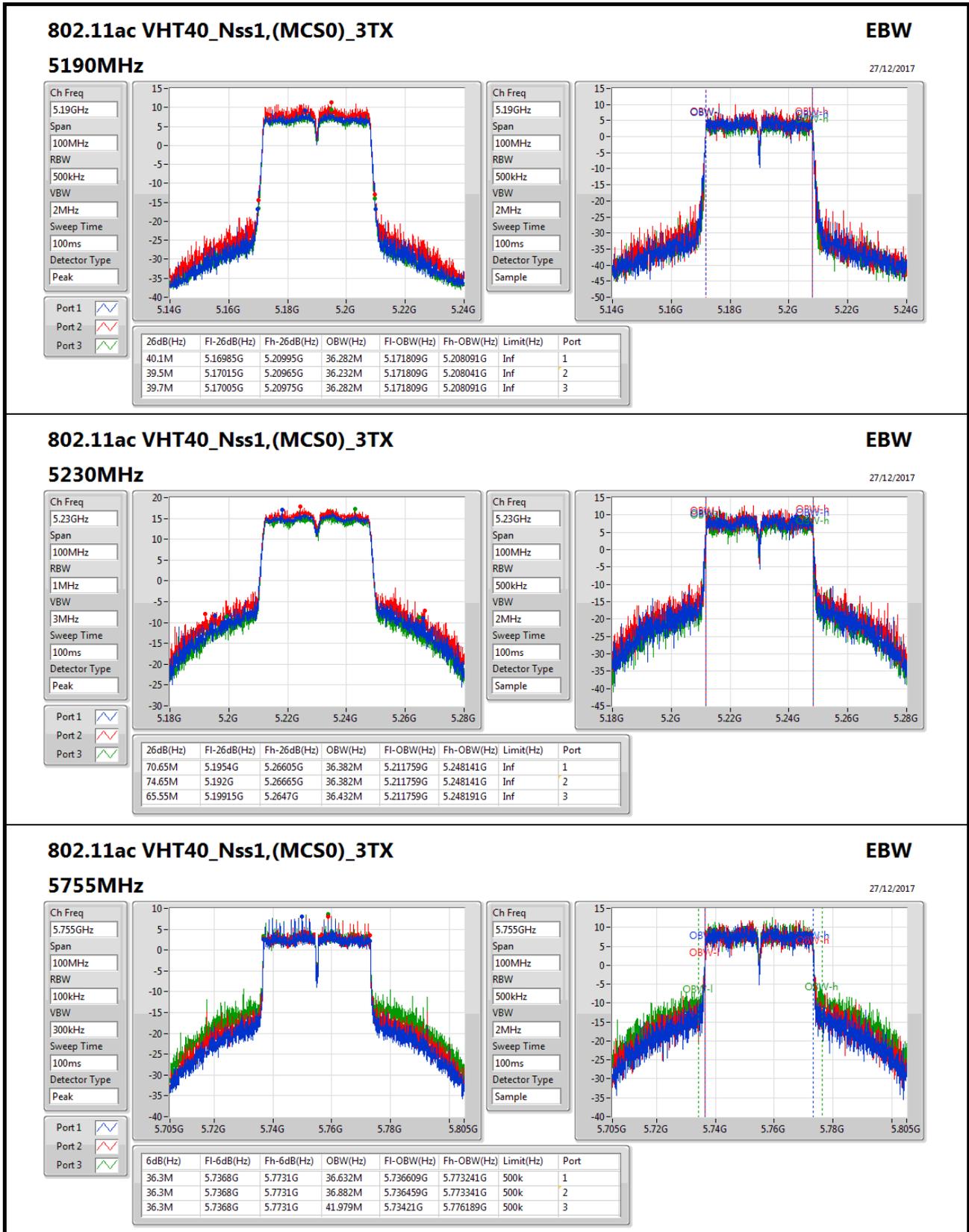Detector Type: Peak

Port 1
Port 2
Port 3

Ch Freq: 5.2GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.925M	5.184225G	5.21815G	17.816M	5.191054G	5.208871G	Inf	1
33.425M	5.181775G	5.2152G	17.816M	5.191029G	5.208846G	Inf	2
32.875M	5.1854G	5.218275G	17.791M	5.191054G	5.208846G	Inf	3

802.11ac VHT20-BF_Nss1,(MCS0)_3TX   EBW

5240MHz

27/12/2017

Ch Freq: 5.24GHz
Span: 50MHz
RBW: 300kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Peak

Port 1
Port 2
Port 3

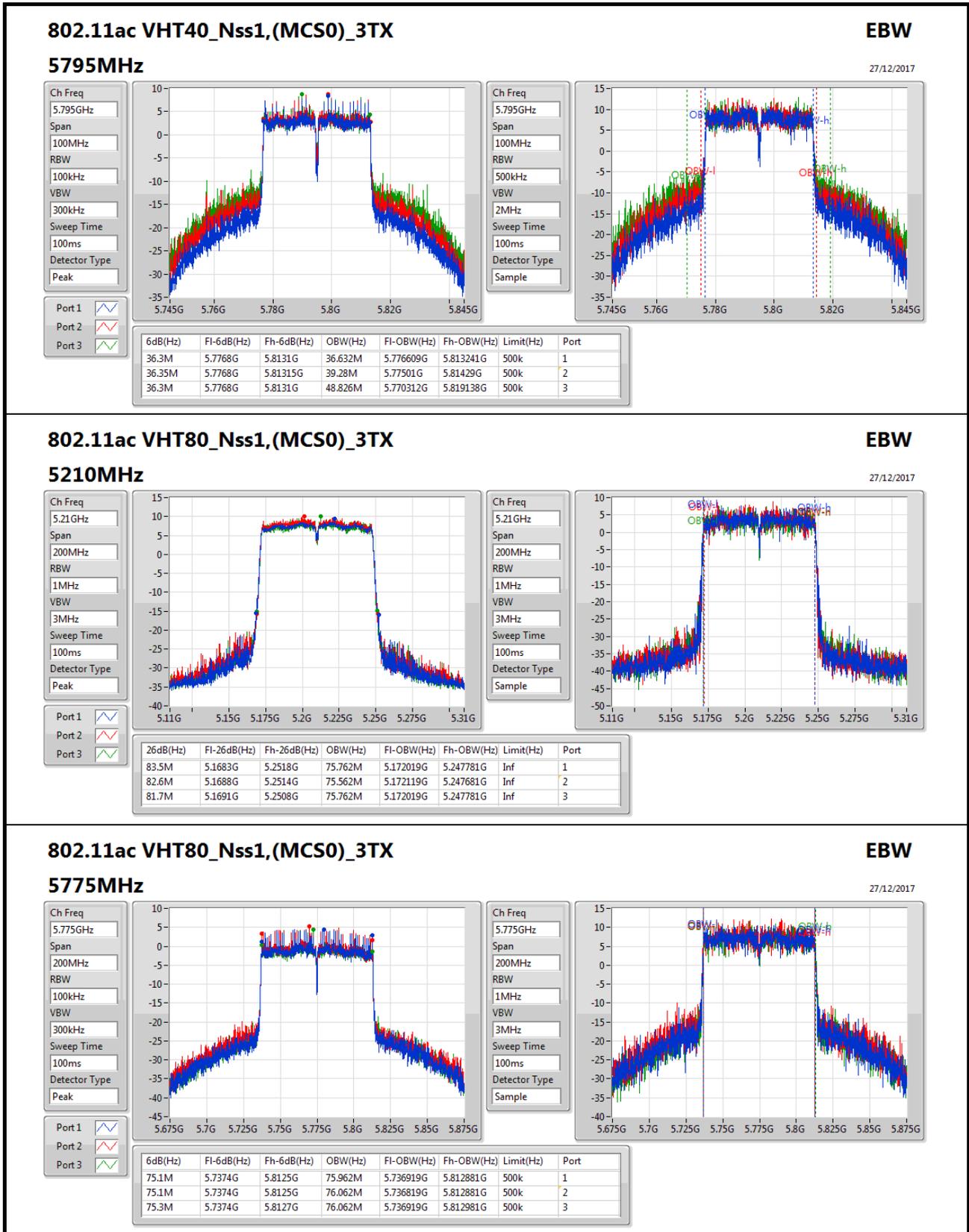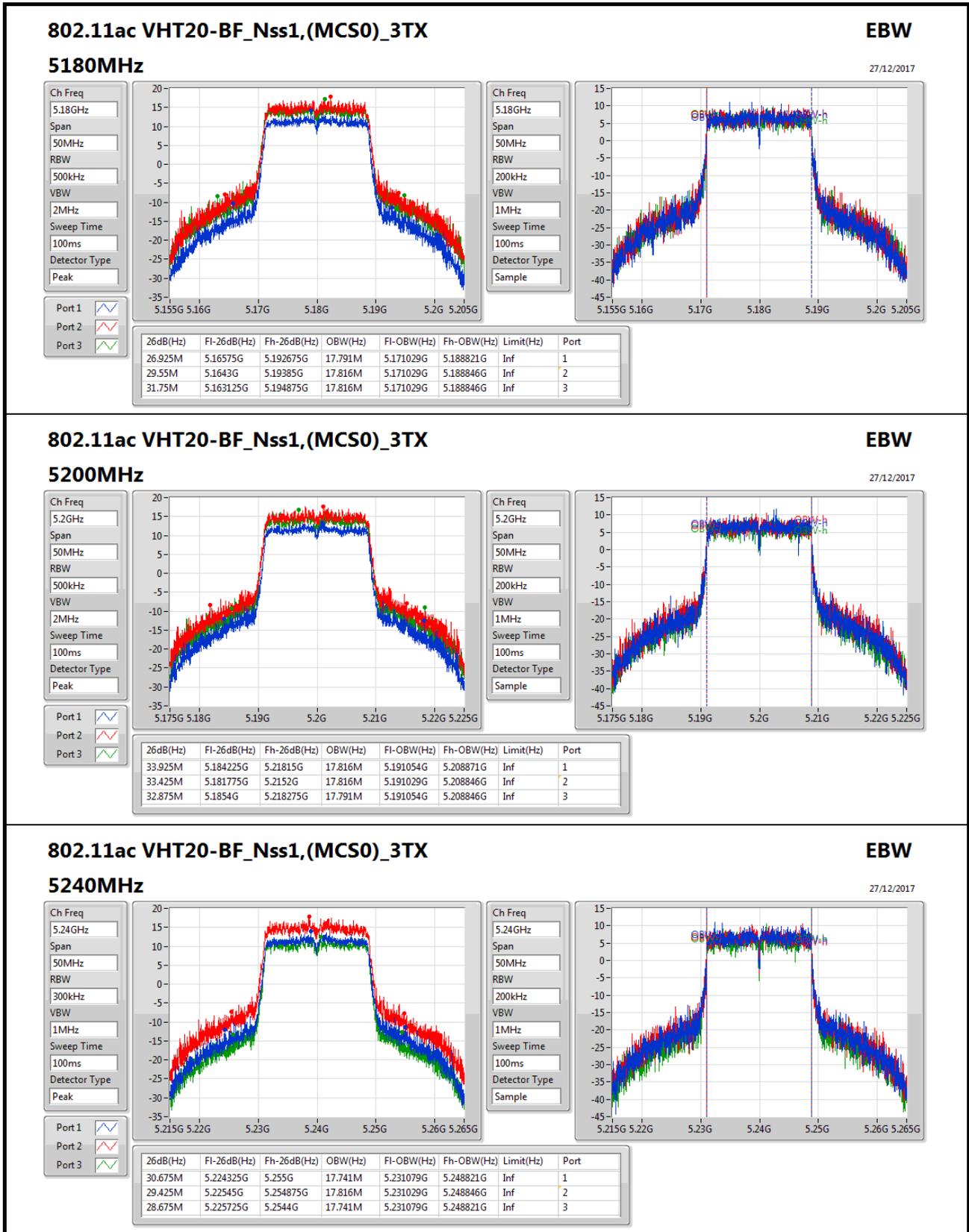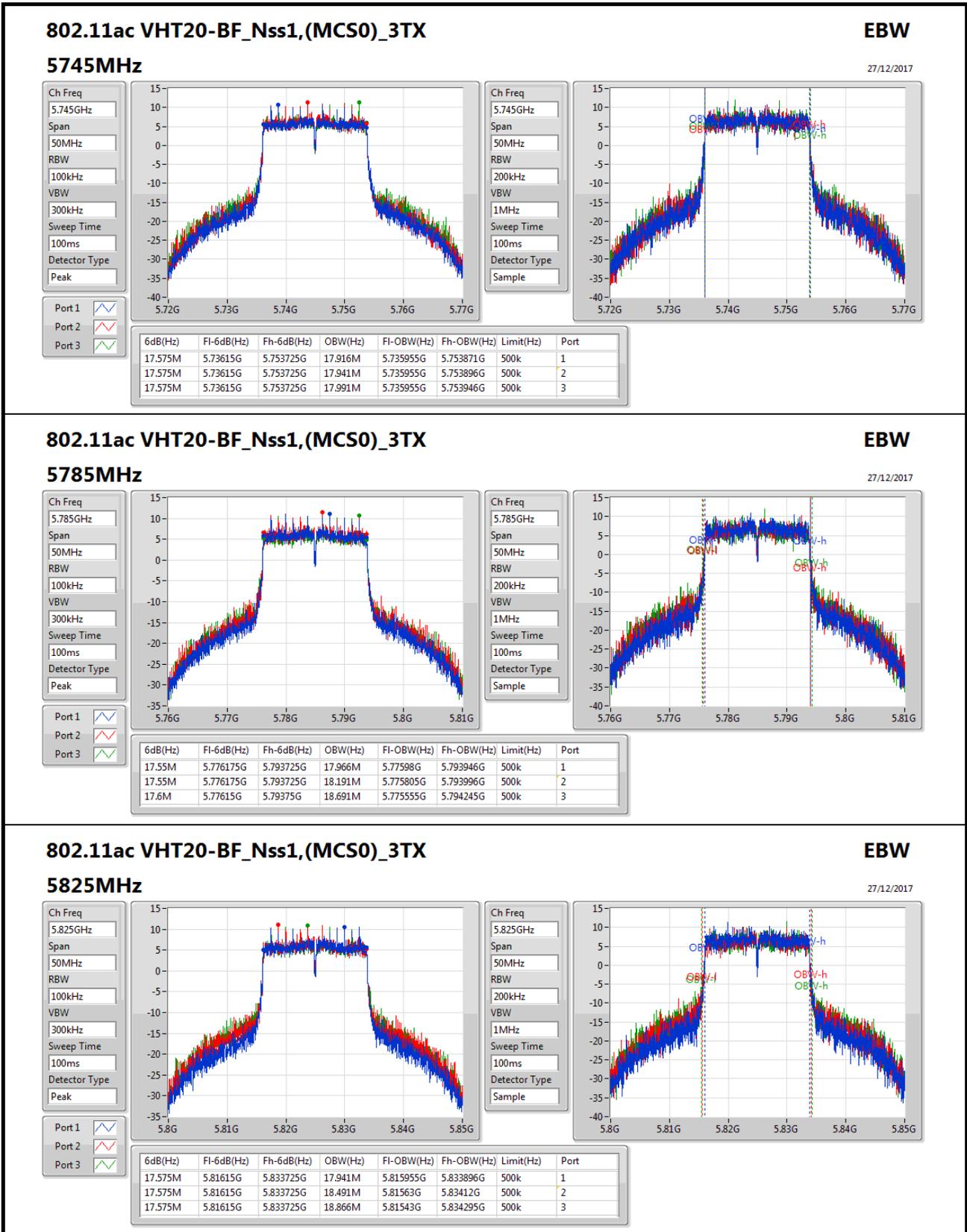Ch Freq: 5.24GHz
Span: 50MHz
RBW: 200kHz
VBW: 1MHz
Sweep Time: 100ms
Detector Type: Sample

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.675M	5.224325G	5.255G	17.741M	5.231079G	5.248821G	Inf	1
29.425M	5.22545G	5.254875G	17.816M	5.231029G	5.248846G	Inf	2
28.675M	5.225725G	5.2544G	17.741M	5.231079G	5.248821G	Inf	3

802.11ac VHT20-BF_Nss1,(MCS0)_3TX EBW

5745MHz

27/12/2017

Ch Freq	
5.745GHz	
Span	
50MHz	
RBW	
100kHz	
VBW	
300kHz	
Sweep Time	
100ms	
Detector Type	
Peak	

Port 1	
Port 2	
Port 3	

Ch Freq	
5.745GHz	
Span	
50MHz	
RBW	
200kHz	
VBW	
1MHz	
Sweep Time	
100ms	
Detector Type	
Sample	

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.73615G	5.753725G	17.916M	5.735955G	5.753871G	500k	1
17.575M	5.73615G	5.753725G	17.941M	5.735955G	5.753896G	500k	2
17.575M	5.73615G	5.753725G	17.991M	5.735955G	5.753946G	500k	3

802.11ac VHT20-BF_Nss1,(MCS0)_3TX EBW

5785MHz

27/12/2017

Ch Freq	
5.785GHz	
Span	
50MHz	
RBW	
100kHz	
VBW	
300kHz	
Sweep Time	
100ms	
Detector Type	
Peak	

Port 1	
Port 2	
Port 3	

Ch Freq	
5.785GHz	
Span	
50MHz	
RBW	
200kHz	
VBW	
1MHz	
Sweep Time	
100ms	
Detector Type	
Sample	

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.776175G	5.793725G	17.966M	5.77598G	5.793946G	500k	1
17.55M	5.776175G	5.793725G	18.191M	5.775805G	5.793996G	500k	2
17.6M	5.77615G	5.79375G	18.691M	5.775555G	5.794245G	500k	3

802.11ac VHT20-BF_Nss1,(MCS0)_3TX EBW

5825MHz

27/12/2017

Ch Freq	
5.825GHz	
Span	
50MHz	
RBW	
100kHz	
VBW	
300kHz	
Sweep Time	
100ms	
Detector Type	
Peak	

Port 1	
Port 2	
Port 3	

Ch Freq	
5.825GHz	
Span	
50MHz	
RBW	
200kHz	
VBW	
1MHz	
Sweep Time	
100ms	
Detector Type	
Sample	

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.81615G	5.833725G	17.941M	5.815955G	5.833896G	500k	1
17.575M	5.81615G	5.833725G	18.491M	5.81563G	5.83412G	500k	2
17.575M	5.81615G	5.833725G	18.866M	5.81543G	5.834295G	500k	3

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   EBW

5190MHz
27/12/2017

Ch Freq: 5.19GHz | Span: 100MHz | RBW: 500kHz | VBW: 2MHz | Sweep Time: 100ms | Detector Type: Peak

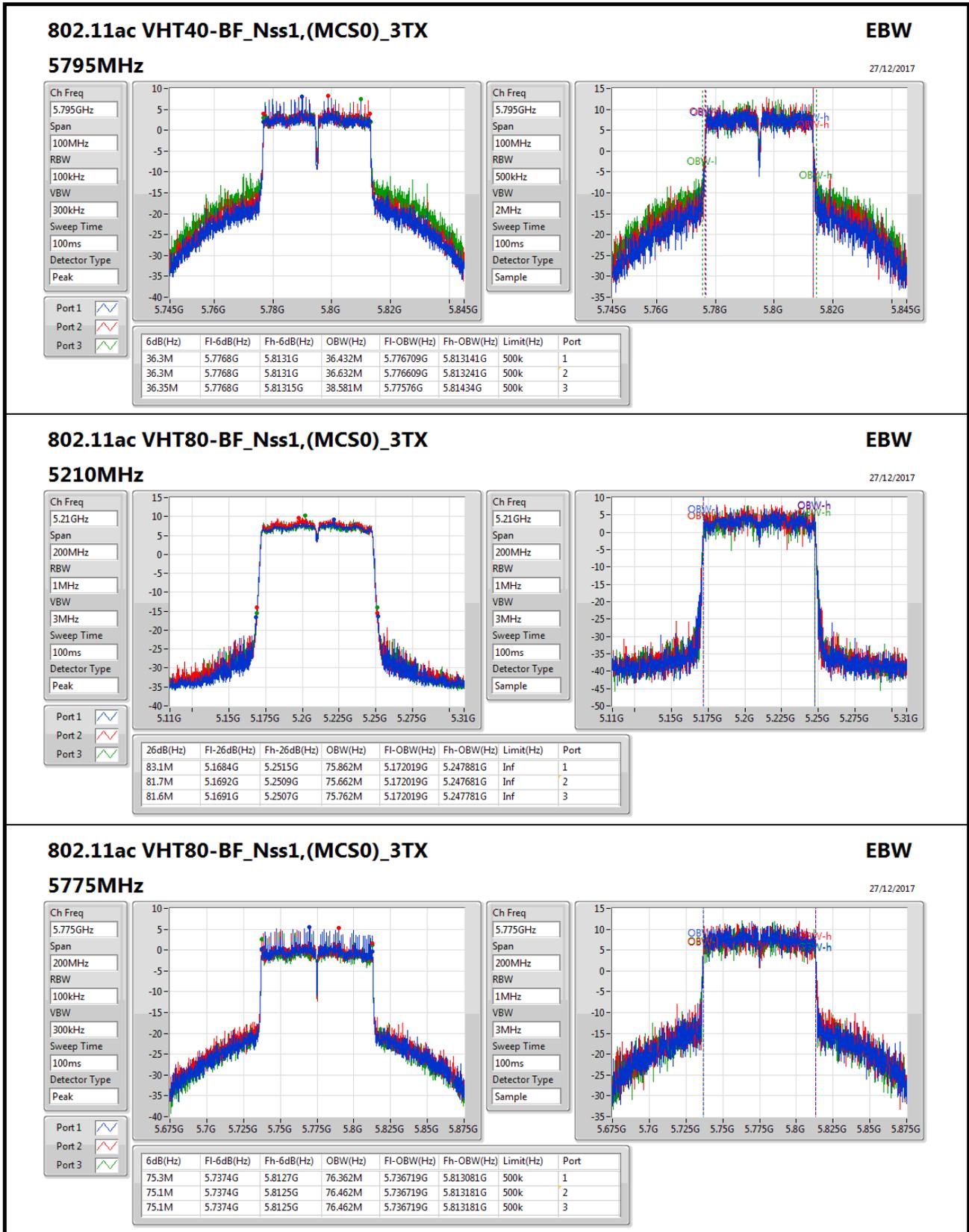Ch Freq: 5.19GHz | Span: 100MHz | RBW: 500kHz | VBW: 2MHz | Sweep Time: 100ms | Detector Type: Sample

Port 1, Port 2, Port 3

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.85M	5.17G	5.20985G	36.282M	5.171809G	5.208091G	Inf	1
39.5M	5.1702G	5.2097G	36.232M	5.171809G	5.208041G	Inf	2
39.6M	5.17015G	5.20975G	36.232M	5.171809G	5.208041G	Inf	3

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   EBW

5230MHz
27/12/2017

Ch Freq: 5.23GHz | Span: 100MHz | RBW: 1MHz | VBW: 3MHz | Sweep Time: 100ms | Detector Type: Peak

Ch Freq: 5.23GHz | Span: 100MHz | RBW: 500kHz | VBW: 2MHz | Sweep Time: 100ms | Detector Type: Sample

Port 1, Port 2, Port 3

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
72.3M	5.19415G	5.26645G	36.332M	5.211759G	5.248091G	Inf	1
83.8M	5.18655G	5.27035G	36.382M	5.211759G	5.248141G	Inf	2
71.6M	5.19305G	5.26465G	36.382M	5.211759G	5.248141G	Inf	3

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   EBW

5755MHz
27/12/2017

Ch Freq: 5.755GHz | Span: 100MHz | RBW: 100kHz | VBW: 300kHz | Sweep Time: 100ms | Detector Type: Peak

Ch Freq: 5.755GHz | Span: 100MHz | RBW: 500kHz | VBW: 2MHz | Sweep Time: 100ms | Detector Type: Sample

Port 1, Port 2, Port 3

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.8M	5.73705G	5.77285G	36.532M	5.736659G	5.773191G	500k	1
36.3M	5.7368G	5.7731G	36.582M	5.736659G	5.773241G	500k	2
36.3M	5.7368G	5.7731G	39.43M	5.73526G	5.77469G	500k	3

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   EBW

5795MHz
27/12/2017

Ch Freq	5.795GHz
Span	100MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.7768G	5.8131G	36.432M	5.776709G	5.813141G	500k	1
36.3M	5.7768G	5.8131G	36.632M	5.776609G	5.813241G	500k	2
36.35M	5.7768G	5.81315G	38.581M	5.77576G	5.81434G	500k	3

802.11ac VHT80-BF_Nss1,(MCS0)_3TX   EBW

5210MHz
27/12/2017

Ch Freq	5.21GHz
Span	200MHz
RBW	1MHz
VBW	3MHz
Sweep Time	100ms
Detector Type	Peak

26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.1M	5.1684G	5.2515G	75.862M	5.172019G	5.247881G	Inf	1
81.7M	5.1692G	5.2509G	75.662M	5.172019G	5.247681G	Inf	2
81.6M	5.1691G	5.2507G	75.762M	5.172019G	5.247781G	Inf	3

802.11ac VHT80-BF_Nss1,(MCS0)_3TX   EBW

5775MHz
27/12/2017

Ch Freq	5.775GHz
Span	200MHz
RBW	100kHz
VBW	300kHz
Sweep Time	100ms
Detector Type	Peak

6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.3M	5.7374G	5.8127G	76.362M	5.736719G	5.813081G	500k	1
75.1M	5.7374G	5.8125G	76.462M	5.736719G	5.813181G	500k	2
75.1M	5.7374G	5.8125G	76.462M	5.736719G	5.813181G	500k	3

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	26.38	0.43451
802.11ac VHT20_Nss1,(MCS0)_3TX	26.87	0.48641
802.11ac VHT40_Nss1,(MCS0)_3TX	26.88	0.48753
802.11ac VHT80_Nss1,(MCS0)_3TX	22.38	0.17298
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	26.79	0.47753
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	26.83	0.48195
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	22.18	0.16520
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_3TX	27.07	0.50933
802.11ac VHT20_Nss1,(MCS0)_3TX	27.10	0.51286
802.11ac VHT40_Nss1,(MCS0)_3TX	26.97	0.49774
802.11ac VHT80_Nss1,(MCS0)_3TX	26.68	0.46559
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	26.88	0.48753
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	26.87	0.48641
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	26.87	0.48641

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
5180MHz	Pass	4.50	21.75	21.81	21.24	26.38	30.00
5200MHz	Pass	4.50	21.71	21.85	21.14	26.35	30.00
5240MHz	Pass	4.50	21.60	22.04	20.97	26.33	30.00
5745MHz	Pass	4.50	22.24	22.19	22.09	26.94	30.00
5785MHz	Pass	4.50	22.31	22.31	22.12	27.02	30.00
5825MHz	Pass	4.50	22.36	22.25	22.29	27.07	30.00
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5180MHz	Pass	4.50	22.31	22.32	21.63	26.87	30.00
5200MHz	Pass	4.50	22.31	22.26	21.48	26.80	30.00
5240MHz	Pass	4.50	22.06	22.27	21.30	26.67	30.00
5745MHz	Pass	4.50	22.39	22.40	22.20	27.10	30.00
5785MHz	Pass	4.50	22.25	22.45	22.02	27.01	30.00
5825MHz	Pass	4.50	22.36	22.10	22.07	26.95	30.00
802.11ac VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5190MHz	Pass	4.50	17.90	18.85	17.68	22.94	30.00
5230MHz	Pass	4.50	22.23	22.49	21.55	26.88	30.00
5755MHz	Pass	4.50	21.91	22.04	22.36	26.88	30.00
5795MHz	Pass	4.50	22.01	22.23	22.35	26.97	30.00
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5210MHz	Pass	4.50	17.48	18.19	17.10	22.38	30.00
5775MHz	Pass	4.50	21.92	21.79	22.02	26.68	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5180MHz	Pass	9.11	22.10	22.11	21.66	26.73	26.89
5200MHz	Pass	9.11	22.25	22.21	21.56	26.79	26.89
5240MHz	Pass	9.11	22.23	22.35	21.31	26.76	26.89
5745MHz	Pass	9.11	22.18	22.05	22.10	26.88	26.89
5785MHz	Pass	9.11	22.13	22.17	21.89	26.84	26.89
5825MHz	Pass	9.11	22.21	22.02	22.00	26.85	26.89
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5190MHz	Pass	9.11	17.30	17.91	17.16	22.24	26.89
5230MHz	Pass	9.11	22.11	22.49	21.53	26.83	26.89
5755MHz	Pass	9.11	21.96	22.13	22.21	26.87	26.89
5795MHz	Pass	9.11	21.90	21.86	21.97	26.68	26.89
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5210MHz	Pass	9.11	17.34	17.89	16.96	22.18	26.89
5775MHz	Pass	9.11	22.20	21.98	22.10	26.87	26.89

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_3TX	13.74
802.11ac VHT20_Nss1,(MCS0)_3TX	13.81
802.11ac VHT40_Nss1,(MCS0)_3TX	10.94
802.11ac VHT80_Nss1,(MCS0)_3TX	3.56
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	13.73
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	10.91
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	3.09
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_3TX	12.75
802.11ac VHT20_Nss1,(MCS0)_3TX	12.56
802.11ac VHT40_Nss1,(MCS0)_3TX	9.73
802.11ac VHT80_Nss1,(MCS0)_3TX	5.90
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	12.49
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	9.52
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	5.88

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)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
5180MHz	Pass	9.11	9.44	9.30	8.52	13.74	13.89
5200MHz	Pass	9.11	9.36	9.19	8.47	13.66	13.89
5240MHz	Pass	9.11	9.28	9.55	8.46	13.69	13.89
5745MHz	Pass	9.11	7.99	8.08	7.78	12.62	26.89
5785MHz	Pass	9.11	8.21	8.07	7.79	12.73	26.89
5825MHz	Pass	9.11	8.21	8.01	7.93	12.75	26.89
802.11ac VHT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5180MHz	Pass	9.11	9.30	9.47	8.78	13.81	13.89
5200MHz	Pass	9.11	9.35	9.32	8.66	13.76	13.89
5240MHz	Pass	9.11	9.22	9.41	8.40	13.65	13.89
5745MHz	Pass	9.11	7.94	7.93	7.67	12.55	26.89
5785MHz	Pass	9.11	7.96	8.07	7.46	12.48	26.89
5825MHz	Pass	9.11	8.16	7.64	7.60	12.56	26.89
802.11ac VHT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5190MHz	Pass	9.11	2.43	2.92	1.77	7.00	13.89
5230MHz	Pass	9.11	6.52	6.74	5.67	10.94	13.89
5755MHz	Pass	9.11	4.83	4.70	4.95	9.50	26.89
5795MHz	Pass	9.11	4.90	5.09	5.12	9.73	26.89
802.11ac VHT80_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5210MHz	Pass	9.11	-1.02	-0.66	-1.50	3.56	13.89
5775MHz	Pass	9.11	1.15	1.39	1.01	5.90	26.89
802.11ac VHT20-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5180MHz	Pass	9.11	9.09	9.10	8.62	13.59	13.89
5200MHz	Pass	9.11	9.45	9.34	8.56	13.73	13.89
5240MHz	Pass	9.11	9.22	9.44	8.43	13.68	13.89
5745MHz	Pass	9.11	7.68	7.84	7.82	12.49	26.89
5785MHz	Pass	9.11	7.87	7.84	7.40	12.38	26.89
5825MHz	Pass	9.11	7.79	7.53	7.40	12.28	26.89
802.11ac VHT40-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5190MHz	Pass	9.11	1.58	1.90	0.63	6.00	13.89
5230MHz	Pass	9.11	6.42	6.81	5.64	10.91	13.89
5755MHz	Pass	9.11	4.67	4.61	4.70	9.37	26.89
5795MHz	Pass	9.11	4.81	4.91	4.73	9.52	26.89
802.11ac VHT80-BF_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
5210MHz	Pass	9.11	-1.59	-1.13	-1.91	3.09	13.89
5775MHz	Pass	9.11	1.38	1.43	0.74	5.88	26.89

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;
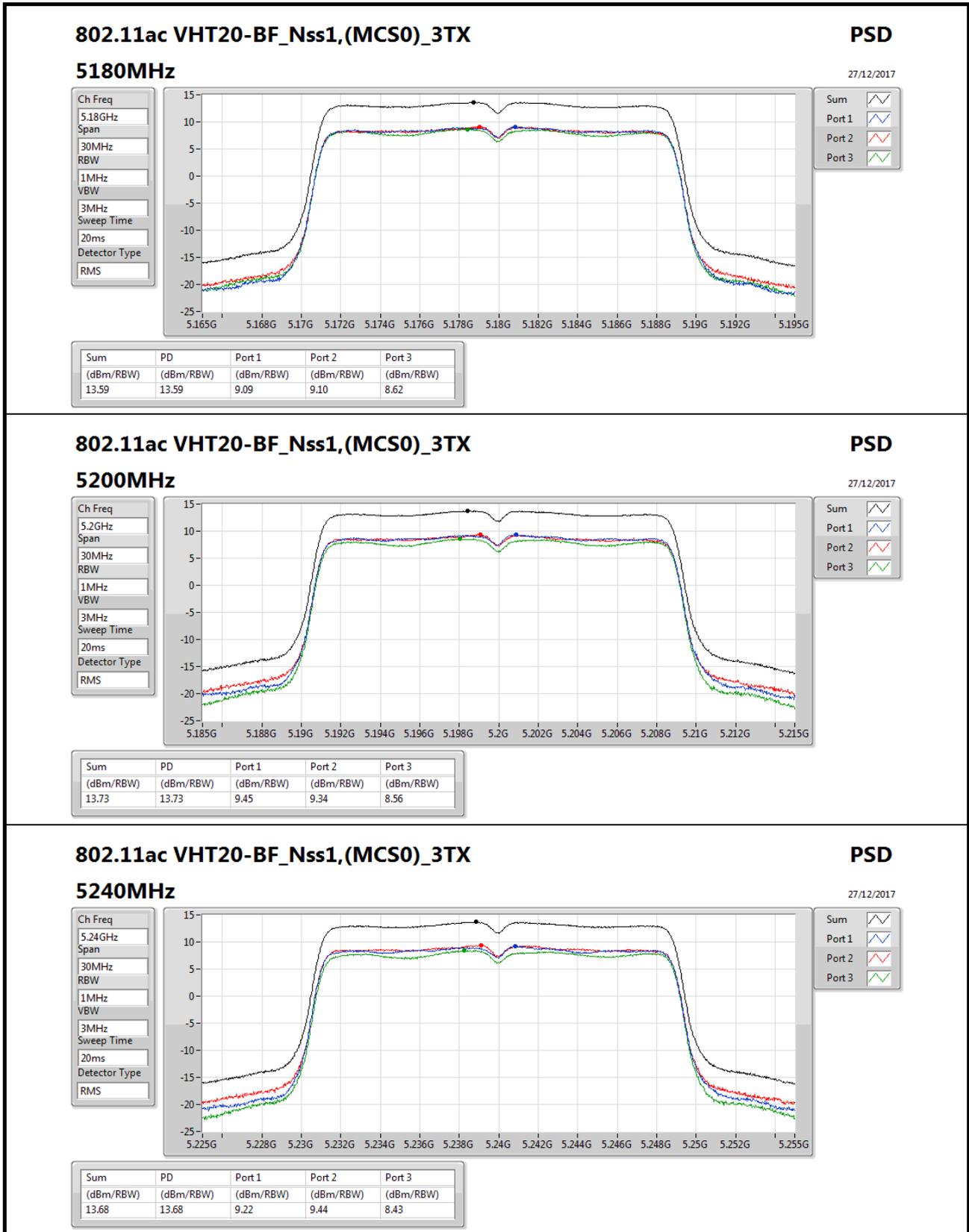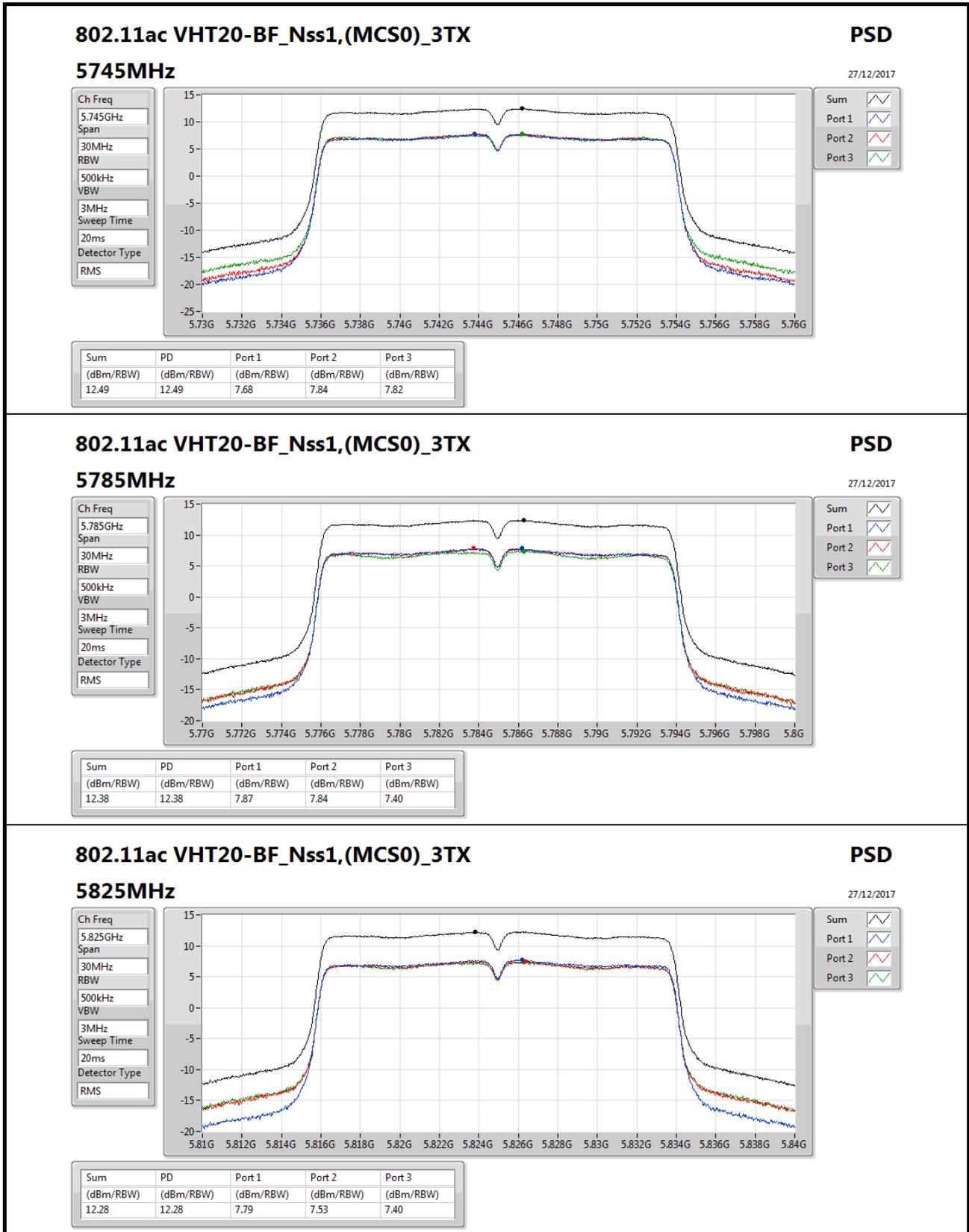
802.11a_Nss1,(6Mbps)_3TX   **PSD**

5180MHz

Ch Freq
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.74	13.74	9.44	9.30	8.52

802.11a_Nss1,(6Mbps)_3TX   **PSD**

5200MHz

Ch Freq
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.66	13.66	9.36	9.19	8.47

802.11a_Nss1,(6Mbps)_3TX   **PSD**

5240MHz

Ch Freq
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.69	13.69	9.28	9.55	8.46

802.11a_Nss1,(6Mbps)_3TX   **PSD**

5745MHz
27/12/2017

Ch Freq
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.62	12.62	7.99	8.08	7.78

802.11a_Nss1,(6Mbps)_3TX   **PSD**

5785MHz
27/12/2017

Ch Freq
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.73	12.73	8.21	8.07	7.79

802.11a_Nss1,(6Mbps)_3TX   **PSD**

5825MHz
27/12/2017

Ch Freq
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.75	12.75	8.21	8.01	7.93

802.11ac VHT20_Nss1,(MCS0)_3TX   PSD

5180MHz

27/12/2017

Ch Freq
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.81	13.81	9.30	9.47	8.78

802.11ac VHT20_Nss1,(MCS0)_3TX   PSD

5200MHz

27/12/2017

Ch Freq
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.76	13.76	9.35	9.32	8.66

802.11ac VHT20_Nss1,(MCS0)_3TX   PSD

5240MHz

27/12/2017

Ch Freq
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.65	13.65	9.22	9.41	8.40

802.11ac VHT20_Nss1,(MCS0)_3TX   PSD

5745MHz
27/12/2017

Ch Freq
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.55	12.55	7.94	7.93	7.67

802.11ac VHT20_Nss1,(MCS0)_3TX   PSD

5785MHz
27/12/2017

Ch Freq
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.48	12.48	7.96	8.07	7.46

802.11ac VHT20_Nss1,(MCS0)_3TX   PSD

5825MHz
27/12/2017

Ch Freq
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Legend: Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.56	12.56	8.16	7.64	7.60

802.11ac VHT40_Nss1,(MCS0)_3TX   **PSD**

5190MHz   27/12/2017

Ch Freq
5.19GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.00	7.00	2.43	2.92	1.77

802.11ac VHT40_Nss1,(MCS0)_3TX   **PSD**

5230MHz   27/12/2017

Ch Freq
5.23GHz
Span
60MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.94	10.94	6.52	6.74	5.67

802.11ac VHT40_Nss1,(MCS0)_3TX   **PSD**

5755MHz   27/12/2017

Ch Freq
5.755GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.50	9.50	4.83	4.70	4.95

802.11ac VHT40_Nss1,(MCS0)_3TX   **PSD**

5795MHz

Ch Freq
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.73	9.73	4.90	5.09	5.12

802.11ac VHT80_Nss1,(MCS0)_3TX   **PSD**

5210MHz

Ch Freq
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.56	3.56	-1.02	-0.66	-1.50

802.11ac VHT80_Nss1,(MCS0)_3TX   **PSD**

5775MHz

Ch Freq
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.90	5.90	1.15	1.39	1.01

802.11ac VHT20-BF_Nss1,(MCS0)_3TX   PSD

5180MHz
27/12/2017

Ch Freq
5.18GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum / Port 1 / Port 2 / Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.59	13.59	9.09	9.10	8.62

802.11ac VHT20-BF_Nss1,(MCS0)_3TX   PSD

5200MHz
27/12/2017

Ch Freq
5.2GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum / Port 1 / Port 2 / Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.73	13.73	9.45	9.34	8.56

802.11ac VHT20-BF_Nss1,(MCS0)_3TX   PSD

5240MHz
27/12/2017

Ch Freq
5.24GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum / Port 1 / Port 2 / Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.68	13.68	9.22	9.44	8.43

802.11ac VHT20-BF_Nss1,(MCS0)_3TX PSD

5745MHz

27/12/2017

Ch Freq
5.745GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.49	12.49	7.68	7.84	7.82

802.11ac VHT20-BF_Nss1,(MCS0)_3TX PSD

5785MHz

27/12/2017

Ch Freq
5.785GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.38	12.38	7.87	7.84	7.40

802.11ac VHT20-BF_Nss1,(MCS0)_3TX PSD

5825MHz

27/12/2017

Ch Freq
5.825GHz
Span
30MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum, Port 1, Port 2, Port 3

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.28	12.28	7.79	7.53	7.40

SPORTON LAB.

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   **PSD**

5190MHz

Ch Freq
5.19GHz

Span: 60MHz
RBW: 1MHz
VBW: 3MHz
Sweep Time: 20ms
Detector Type: RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.00	6.00	1.58	1.90	0.63

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   **PSD**

5230MHz

27/12/2017

Ch Freq
5.23GHz

Span: 60MHz
RBW: 1MHz
VBW: 3MHz
Sweep Time: 20ms
Detector Type: RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.91	10.91	6.42	6.81	5.64

802.11ac VHT40-BF_Nss1,(MCS0)_3TX   **PSD**

5755MHz

27/12/2017

Ch Freq
5.755GHz

Span: 60MHz
RBW: 500kHz
VBW: 3MHz
Sweep Time: 20ms
Detector Type: RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.37	9.37	4.67	4.61	4.70

SPORTON LAB.

802.11ac VHT40-BF_Nss1,(MCS0)_3TX PSD

5795MHz

27/12/2017

Ch Freq
5.795GHz
Span
60MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.52	9.52	4.81	4.91	4.73

802.11ac VHT80-BF_Nss1,(MCS0)_3TX PSD

5210MHz

27/12/2017

Ch Freq
5.21GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.09	3.09	-1.59	-1.13	-1.91

802.11ac VHT80-BF_Nss1,(MCS0)_3TX PSD

5775MHz

27/12/2017

Ch Freq
5.775GHz
Span
120MHz
RBW
500kHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS

Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.88	5.88	1.38	1.43	0.74

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

Level (dBuV/m)   Date: 2017-12-05 Time: 10:23:41

FCC CLASS-B

	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	30.00	33.05	40.00	-6.95	39.24	0.66	24.45	31.30	125	189	Peak	HORIZONTAL
2	257.95	31.63	46.00	-14.37	42.28	2.01	19.21	31.87	100	168	Peak	HORIZONTAL
3	384.05	33.77	46.00	-12.23	42.45	2.42	20.93	32.03	100	210	Peak	HORIZONTAL
4	437.40	32.97	46.00	-13.03	40.17	2.59	22.32	32.11	100	0	Peak	HORIZONTAL
5	875.84	38.45	46.00	-7.55	40.58	3.83	26.45	32.41	100	185	Peak	HORIZONTAL
6	966.05	39.13	54.00	-14.87	40.69	3.87	26.97	32.40	100	20	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	2	**Polarization**	Vertical
Operating Function	Normal Link		

Date: 2017-12-05 Time: 10:27:48

	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	30.97	34.22	40.00	-5.78	41.06	0.66	23.82	31.32	150	173	Peak	VERTICAL
2	125.06	35.76	43.50	-7.74	47.86	1.39	18.27	31.76	100	179	Peak	VERTICAL
3	260.86	32.82	46.00	-13.18	43.32	2.02	19.36	31.88	100	360	Peak	VERTICAL
4	427.70	42.94	46.00	-3.06	50.17	2.55	22.31	32.09	100	245	Peak	VERTICAL
5	625.58	33.85	46.00	-12.15	38.09	3.08	25.03	32.35	100	311	Peak	VERTICAL
6	820.55	35.22	46.00	-10.78	37.88	3.70	26.10	32.46	125	51	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.)

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_3TX	Pass	AV	5.149995G	52.96	54.00	-1.04	5.22	3	Vertical	98	1.50	-

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX

20171130
EUT Y_3TX
Setting 88
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1476G	52.81	54.00	-1.19	5.22	3	Vertical	236	1.61				
AV	5.1866G	108.09	Inf	-Inf	5.25	3	Vertical	236	1.61				
PK	5.1498G	71.60	74.00	-2.40	5.22	3	Vertical	236	1.61				
PK	5.1768G	118.02	Inf	-Inf	5.24	3	Vertical	236	1.61				

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX

20171130
EUT Y_3TX
Setting 88
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1482G	48.90	54.00	-5.10	5.22	3	Horizontal	90	1.34				
AV	5.1792G	104.99	Inf	-Inf	5.24	3	Horizontal	90	1.34				
PK	5.149G	69.26	74.00	-4.74	5.22	3	Horizontal	90	1.34				
PK	5.1788G	113.89	Inf	-Inf	5.24	3	Horizontal	90	1.34				

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX
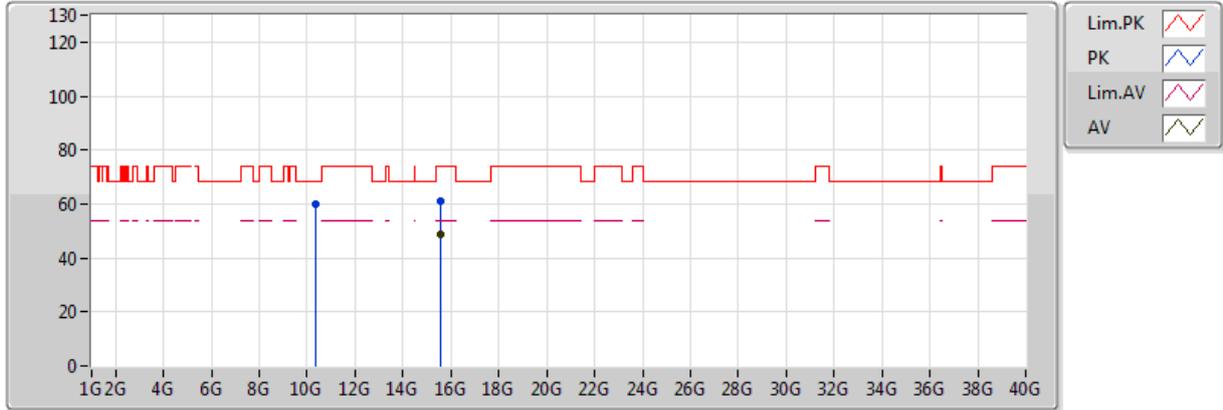
20171124
EUT Y_3TX
Setting 88
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.541G	48.59	54.00	-5.41	15.54	3	Vertical	76	1.50				
PK	10.36432G	60.09	68.20	-8.11	12.75	3	Vertical	109	2.29				
PK	15.541G	60.94	74.00	-13.06	15.54	3	Vertical	76	1.50				

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX
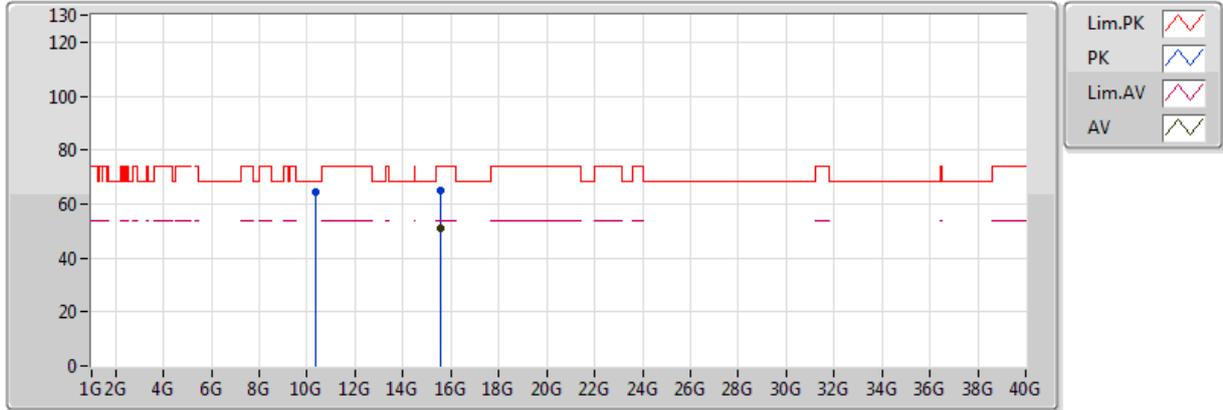
20171220
EUT Y_3TX
Setting 88
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.5429G	50.79	54.00	-3.21	16.09	3	Horizontal	151	1.01				
PK	10.3586G	64.60	68.20	-3.60	14.53	3	Horizontal	225	1.46				
PK	15.5431G	65.10	74.00	-8.90	16.09	3	Horizontal	151	1.01				

802.11a_Nss1,(6Mbps)_3TX

5200MHz_TX


```
20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP
```

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1272G	49.00	54.00	-5.00	5.20	3	Vertical	237	1.47				
AV	5.1984G	109.53	Inf	-Inf	5.26	3	Vertical	237	1.47				
PK	5.1488G	61.44	74.00	-12.56	5.22	3	Vertical	237	1.47				
PK	5.198G	119.57	Inf	-Inf	5.26	3	Vertical	237	1.47				

802.11a_Nss1,(6Mbps)_3TX
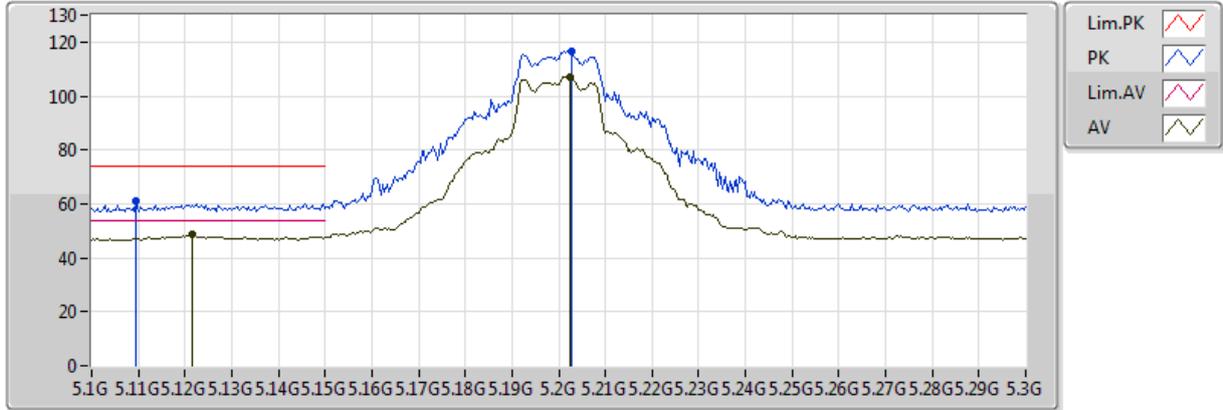
5200MHz_TX

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1216G	48.59	54.00	-5.41	5.91	3	Horizontal	74	2.65					
AV	5.2024G	107.30	Inf	-Inf	5.98	3	Horizontal	74	2.65					
PK	5.1096G	61.18	74.00	-12.82	5.90	3	Horizontal	74	2.65					
PK	5.2028G	116.62	Inf	-Inf	5.98	3	Horizontal	74	2.65					

802.11a_Nss1,(6Mbps)_3TX
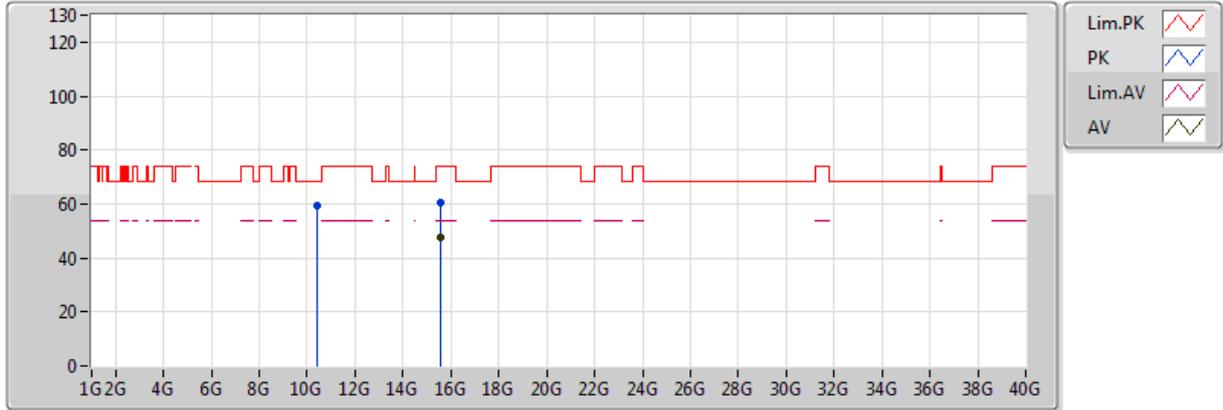
5200MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.60072G	47.89	54.00	-6.11	15.32	3	Vertical	76	1.70				
PK	10.39658G	59.67	68.20	-8.53	12.77	3	Vertical	112	1.67				
PK	15.60084G	60.75	74.00	-13.25	15.32	3	Vertical	76	1.70				

802.11a_Nss1,(6Mbps)_3TX
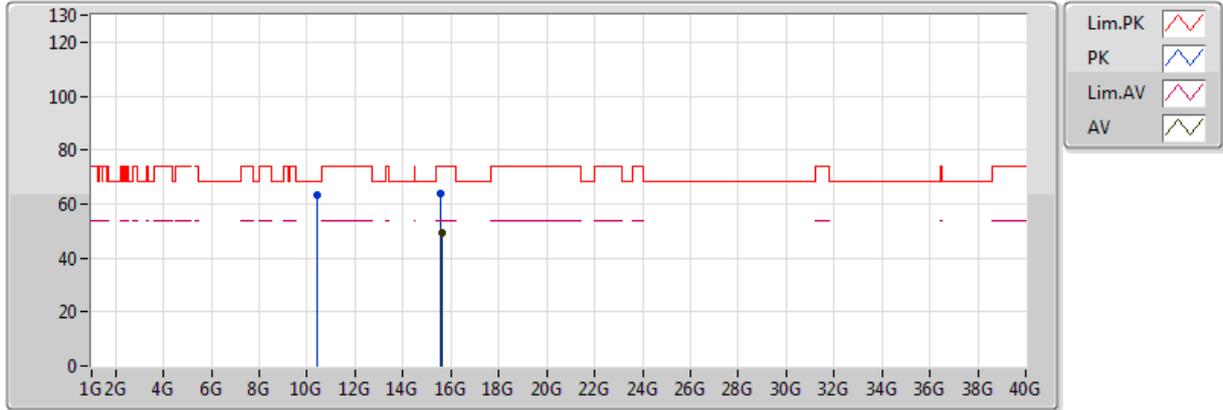
5200MHz_TX


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20171124
EUT Y_3TX
Setting 92
03_R-5
FSP
```

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.60324G	49.08	54.00	-4.92	15.31	3	Horizontal	153	1.02					
PK	10.4003G	63.33	68.20	-4.87	12.77	3	Horizontal	223	1.49					
PK	15.5937G	63.70	74.00	-10.30	15.34	3	Horizontal	153	1.02					

802.11a_Nss1,(6Mbps)_3TX
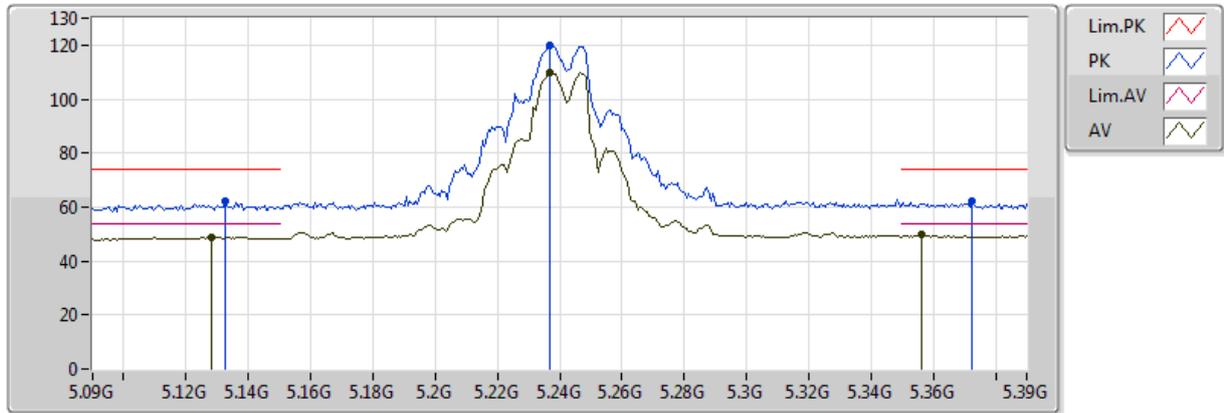
5240MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1284G	48.90	54.00	-5.10	9.85	3	Vertical	90	1.50					
AV	5.237G	109.78	Inf	-Inf	10.25	3	Vertical	90	1.50					
AV	5.3564G	49.80	54.00	-4.20	10.99	3	Vertical	90	1.50					
PK	5.1326G	62.06	74.00	-11.94	9.86	3	Vertical	90	1.50					
PK	5.237G	119.69	Inf	-Inf	10.25	3	Vertical	90	1.50					
PK	5.3726G	62.02	74.00	-11.98	11.09	3	Vertical	90	1.50					

802.11a_Nss1,(6Mbps)_3TX
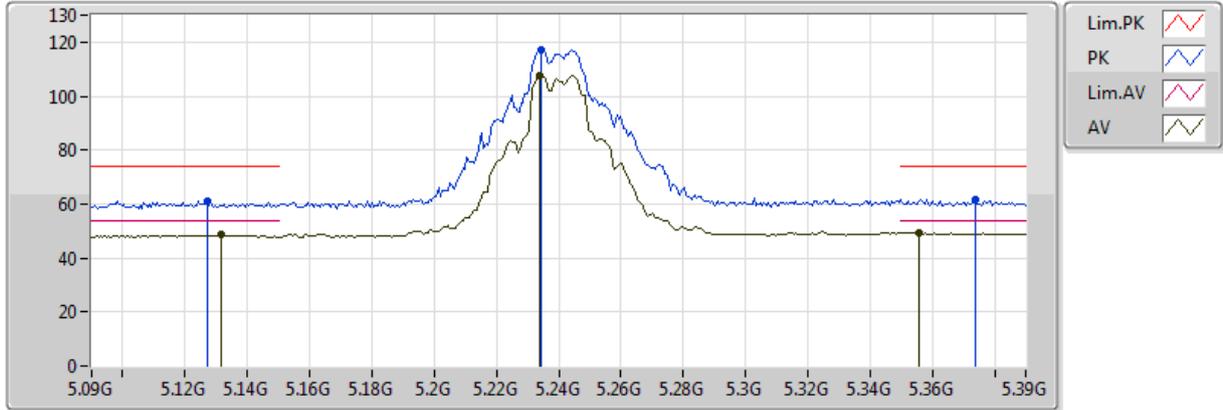
5240MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1314G	48.55	54.00	-5.45	9.86	3	Horizontal	70	2.90
AV	5.234G	107.55	Inf	-Inf	10.23	3	Horizontal	70	2.90
AV	5.3558G	49.50	54.00	-4.50	10.99	3	Horizontal	70	2.90
PK	5.1272G	61.28	74.00	-12.72	9.85	3	Horizontal	70	2.90
PK	5.2346G	117.24	Inf	-Inf	10.23	3	Horizontal	70	2.90
PK	5.3738G	61.84	74.00	-12.16	11.10	3	Horizontal	70	2.90

802.11a_Nss1,(6Mbps)_3TX
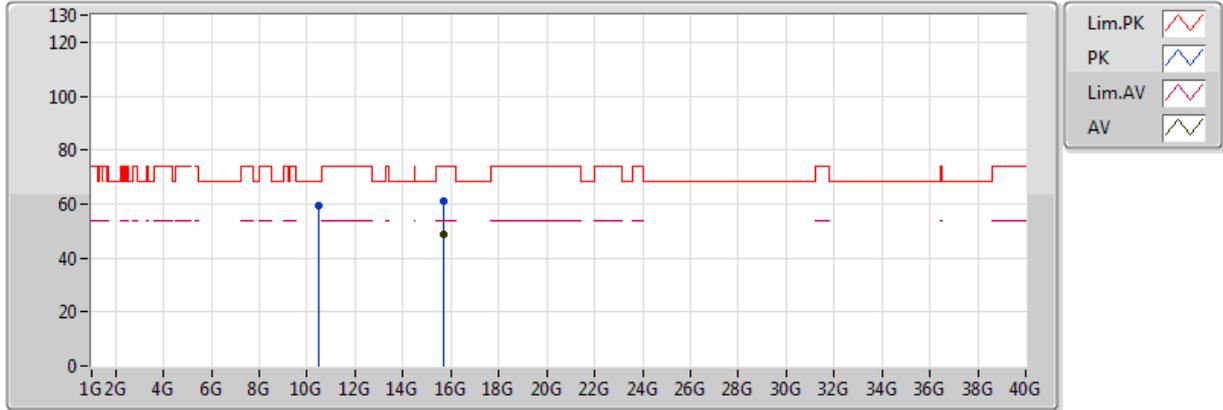
5240MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.72066G	48.51	54.00	-5.49	14.86	3	Vertical	79	1.52
PK	10.48582G	59.19	68.20	-9.01	12.82	3	Vertical	113	1.69
PK	15.72078G	61.22	74.00	-12.78	14.86	3	Vertical	79	1.52

802.11a_Nss1,(6Mbps)_3TX
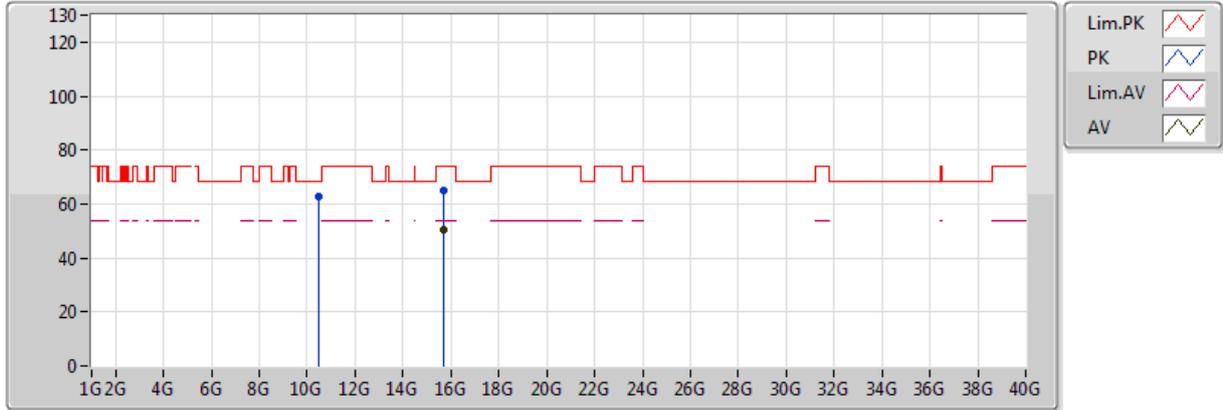
5240MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.723G	50.54	54.00	-3.46	14.85	3	Horizontal	154	1.01				
PK	10.48048G	62.86	68.20	-5.34	12.81	3	Horizontal	222	1.50				
PK	15.71382G	65.01	74.00	-8.99	14.89	3	Horizontal	154	1.01				

802.11a_Nss1,(6Mbps)_3TX
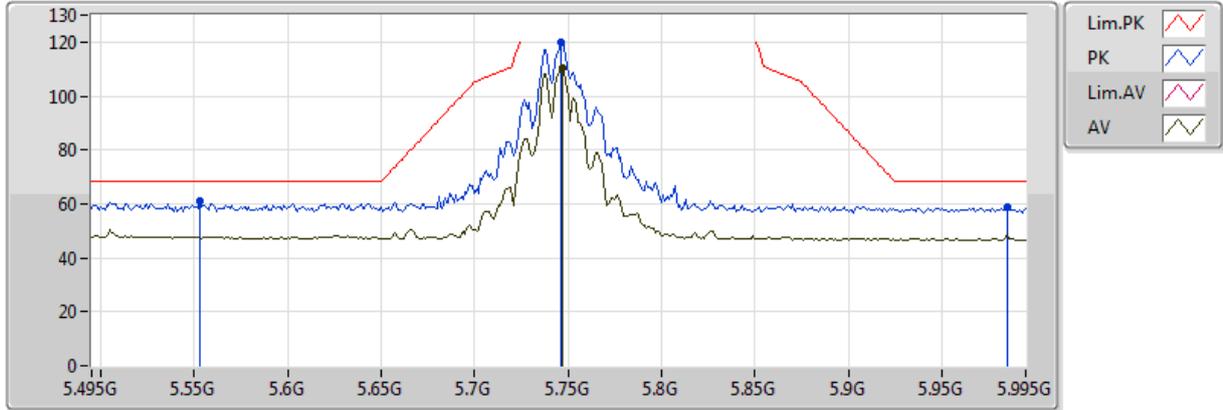
5745MHz_TX

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.747G	110.14	Inf	-Inf	6.41	3	Vertical	244	1.50				
PK	5.553G	60.90	68.20	-7.30	6.17	3	Vertical	244	1.50				
PK	5.746G	120.02	Inf	-Inf	6.40	3	Vertical	244	1.50				
PK	5.985G	58.79	68.20	-9.41	6.37	3	Vertical	244	1.50				
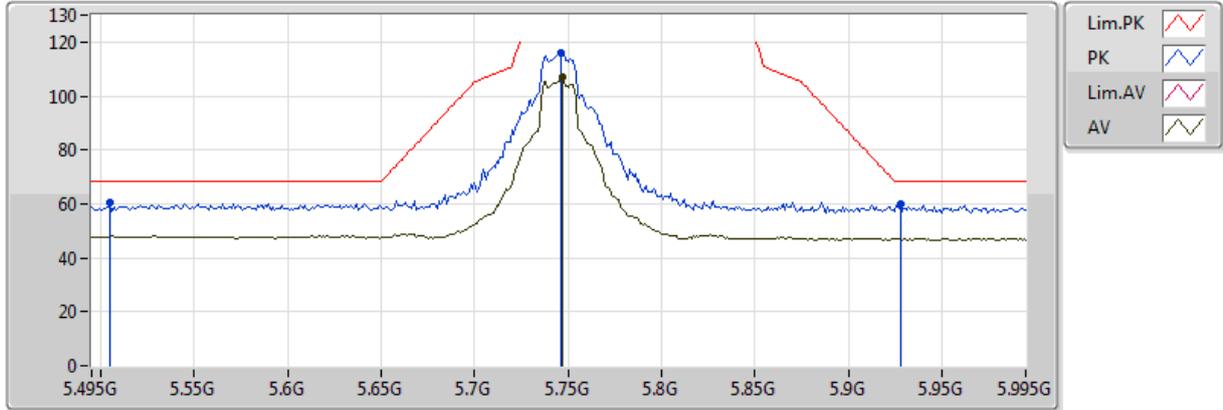
802.11a_Nss1,(6Mbps)_3TX

5745MHz_TX

	Lim.PK
	PK
	Lim.AV
	AV

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.747G	106.77	Inf	-Inf	6.94	3	Horizontal	75	2.06				
PK	5.505G	60.65	68.20	-7.55	6.87	3	Horizontal	75	2.06				
PK	5.746G	116.07	Inf	-Inf	6.94	3	Horizontal	75	2.06				
PK	5.928G	59.90	68.20	-8.30	7.05	3	Horizontal	75	2.06				

802.11a_Nss1,(6Mbps)_3TX
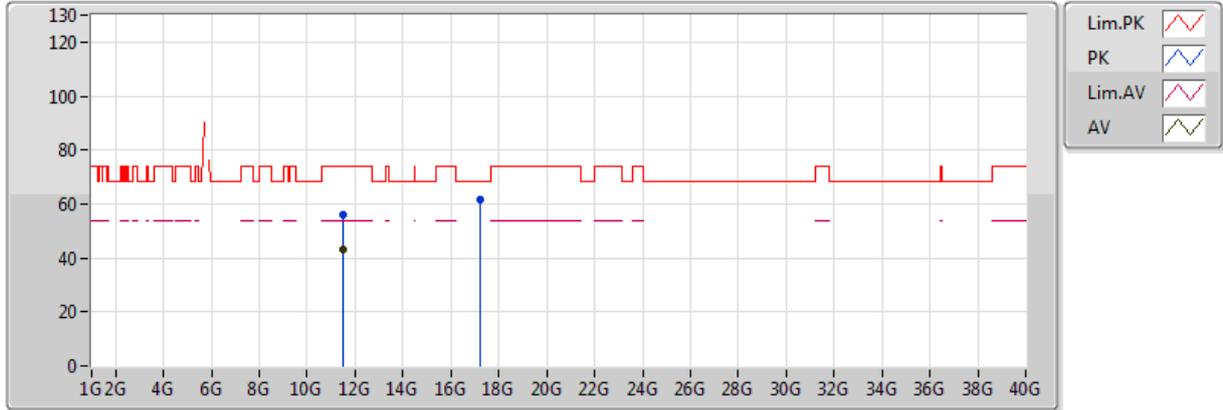
5745MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.48814G	43.10	54.00	-10.90	12.83	3	Vertical	273	1.68				
PK	11.4876G	55.78	74.00	-18.22	12.83	3	Vertical	273	1.68				
PK	17.2362G	61.71	68.20	-6.49	18.70	3	Vertical	247	1.83				

802.11a_Nss1,(6Mbps)_3TX
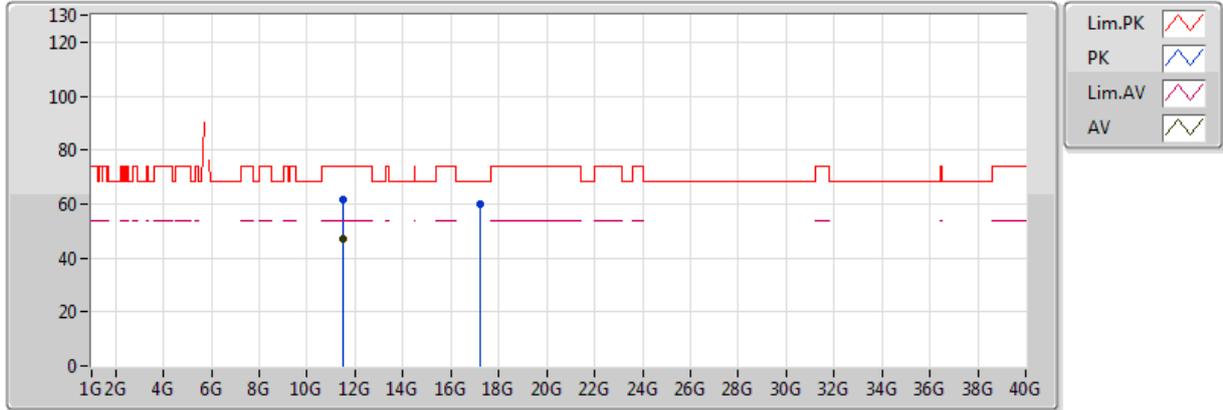
5745MHz_TX

	Lim.PK
	PK
	Lim.AV
	AV

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.49012G	47.34	54.00	-6.66	12.83	3	Horizontal	282	1.76					
PK	11.49036G	61.80	74.00	-12.20	12.83	3	Horizontal	282	1.76					
PK	17.23818G	59.82	68.20	-8.38	17.06	3	Horizontal	250	2.46					

802.11a_Nss1,(6Mbps)_3TX
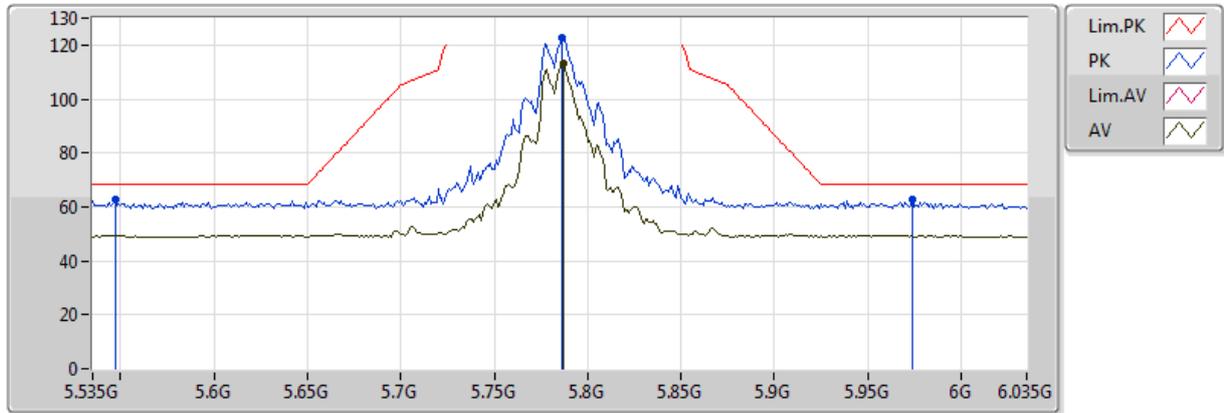
5785MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.787G	113.03	Inf	-Inf	10.72	3	Vertical	218	2.40					
PK	5.547G	62.51	68.20	-5.69	10.74	3	Vertical	218	2.40					
PK	5.786G	122.73	Inf	-Inf	10.72	3	Vertical	218	2.40					
PK	5.974G	62.64	68.20	-5.56	11.20	3	Vertical	218	2.40					

802.11a_Nss1,(6Mbps)_3TX
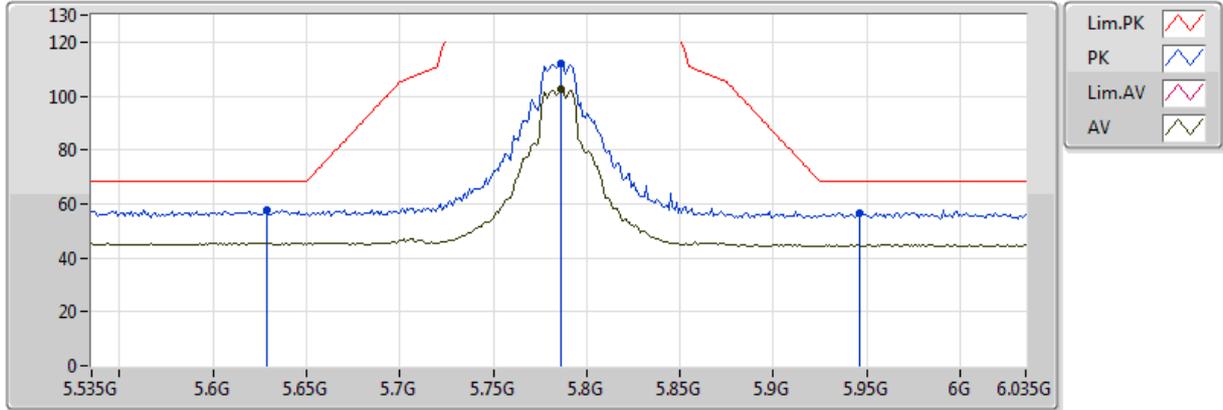
5785MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.786G	102.81	Inf	-Inf	6.92	3	Horizontal	42	1.50				
PK	5.629G	57.65	68.20	-10.55	7.01	3	Horizontal	42	1.50				
PK	5.786G	112.20	Inf	-Inf	6.92	3	Horizontal	42	1.50				
PK	5.946G	56.85	68.20	-11.35	7.07	3	Horizontal	42	1.50				

802.11a_Nss1,(6Mbps)_3TX
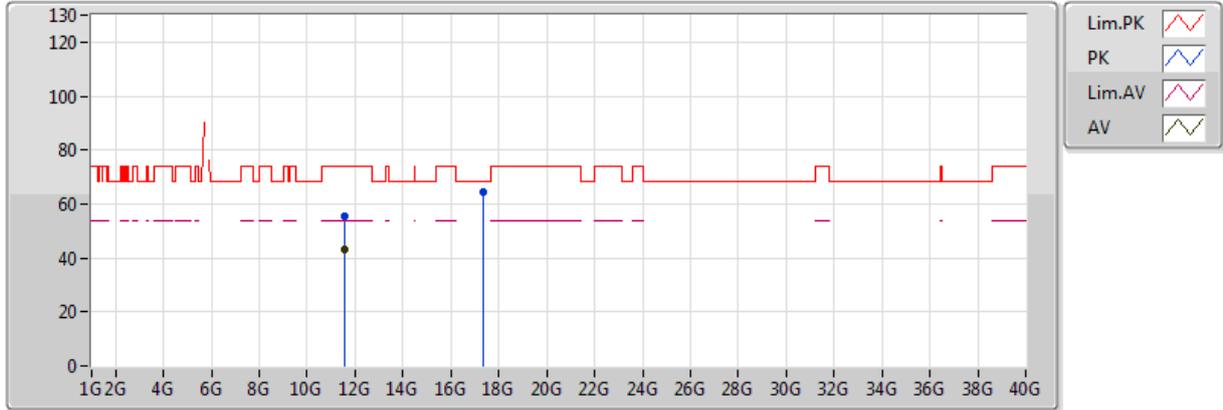
5785MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.5679G	43.42	54.00	-10.58	13.50	3	Vertical	274	1.71				
PK	11.56838G	55.56	74.00	-18.44	13.50	3	Vertical	274	1.71				
PK	17.35566G	64.55	68.20	-3.65	19.34	3	Vertical	238	2.55				

802.11a_Nss1,(6Mbps)_3TX
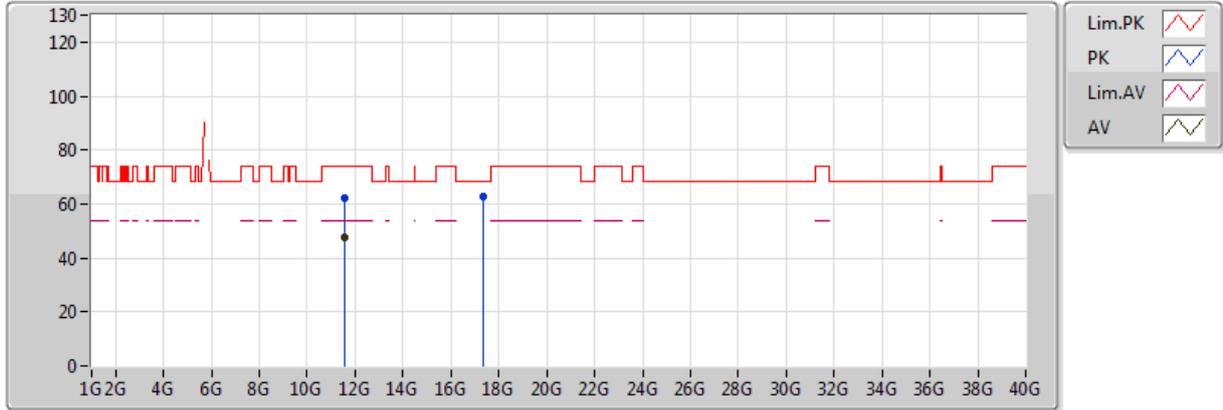
5785MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.57018G	47.42	54.00	-6.58	13.50	3	Horizontal	283	1.74					
PK	11.57054G	62.28	74.00	-11.72	13.50	3	Horizontal	283	1.74					
PK	17.34924G	62.96	68.20	-5.24	19.31	3	Horizontal	250	2.44					

802.11a_Nss1,(6Mbps)_3TX
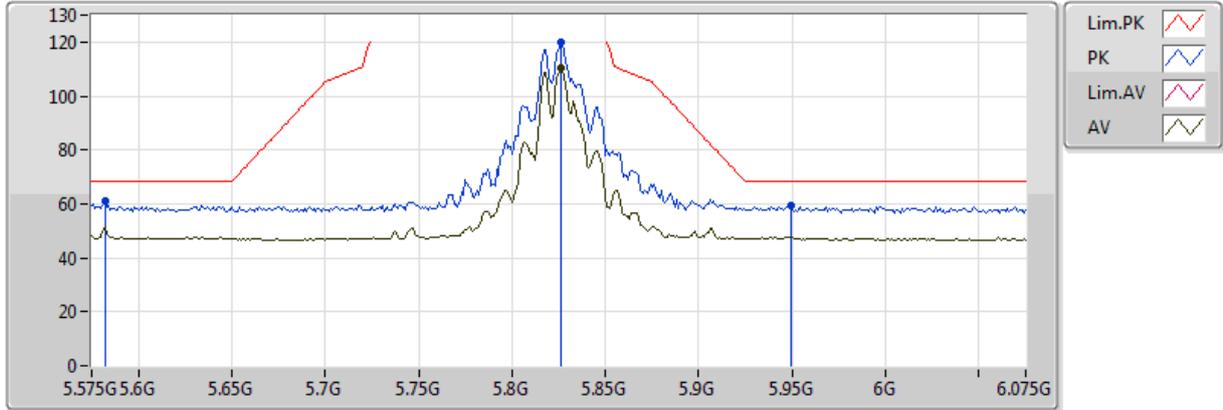
5825MHz_TX


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20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.826G	110.26	Inf	-Inf	6.47	3	Vertical	244	1.50					
PK	5.582G	61.31	68.20	-6.89	6.17	3	Vertical	244	1.50					
PK	5.826G	119.83	Inf	-Inf	6.47	3	Vertical	244	1.50					
PK	5.949G	59.22	68.20	-8.98	6.39	3	Vertical	244	1.50					
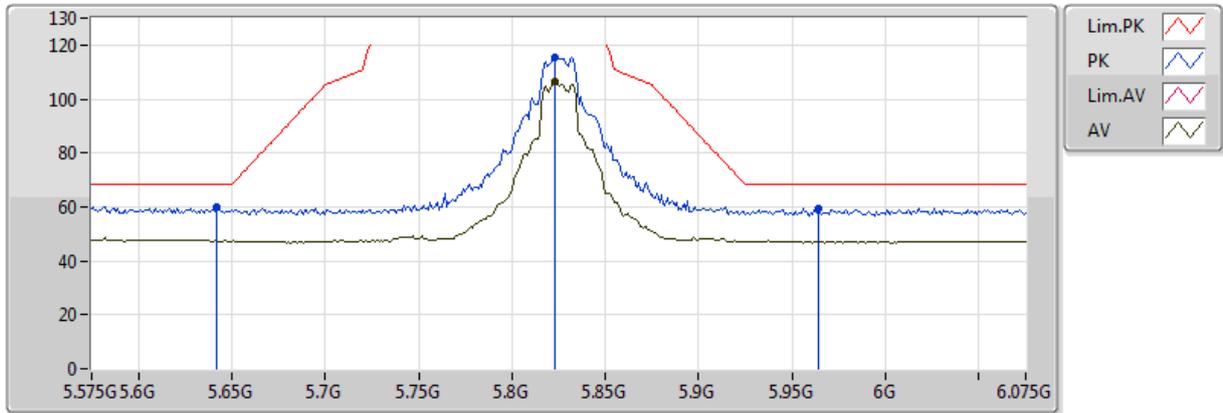
802.11a_Nss1,(6Mbps)_3TX

5825MHz_TX

	Lim.PK
	PK
	Lim.AV
	AV

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.823G	106.22	Inf	-Inf	6.94	3	Horizontal	72	1.32					
PK	5.642G	60.15	68.20	-8.05	7.00	3	Horizontal	72	1.32					
PK	5.823G	115.63	Inf	-Inf	6.94	3	Horizontal	72	1.32					
PK	5.964G	59.39	68.20	-8.81	7.09	3	Horizontal	72	1.32					

802.11a_Nss1,(6Mbps)_3TX

5825MHz_TX
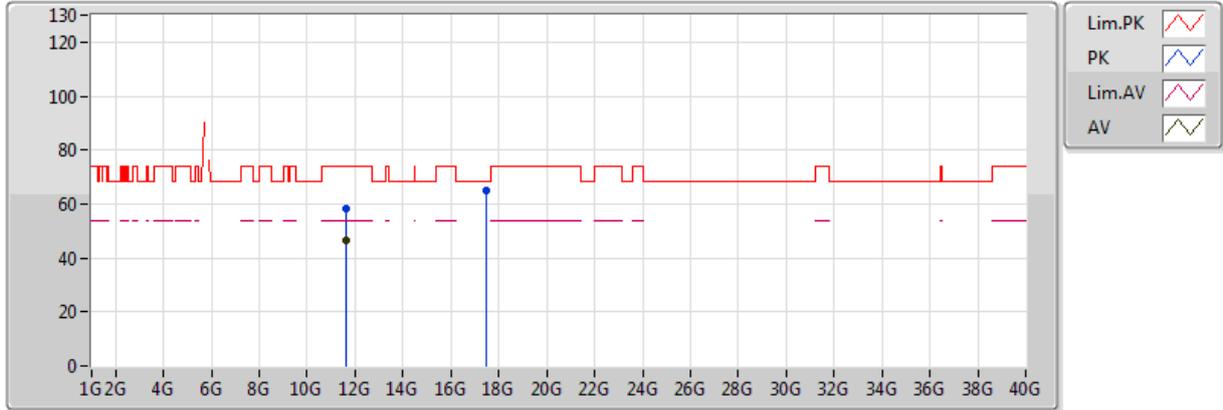
20171220
EUT Y_3TX
Setting 92
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.6494G	46.30	54.00	-7.70	14.83	3	Vertical	272	2.50					
PK	11.6484G	58.32	74.00	-15.68	14.83	3	Vertical	272	2.50					
PK	17.4771G	65.20	68.20	-3.00	20.47	3	Vertical	227	2.46					

802.11a_Nss1,(6Mbps)_3TX
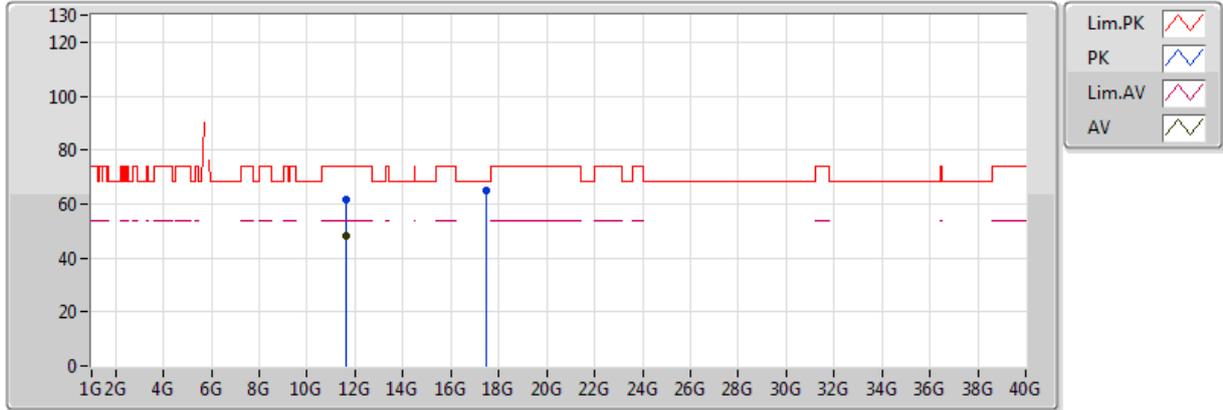
5825MHz_TX

20171124
EUT Y_3TX
Setting 92
03_R-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.65066G	47.92	54.00	-6.08	14.07	3	Horizontal	285	1.63					
PK	11.65018G	61.44	74.00	-12.56	14.07	3	Horizontal	285	1.63					
PK	17.47308G	65.05	68.20	-3.15	19.97	3	Horizontal	281	1.50					

802.11ac VHT20_Nss1,(MCS0)_3TX

5180MHz_TX
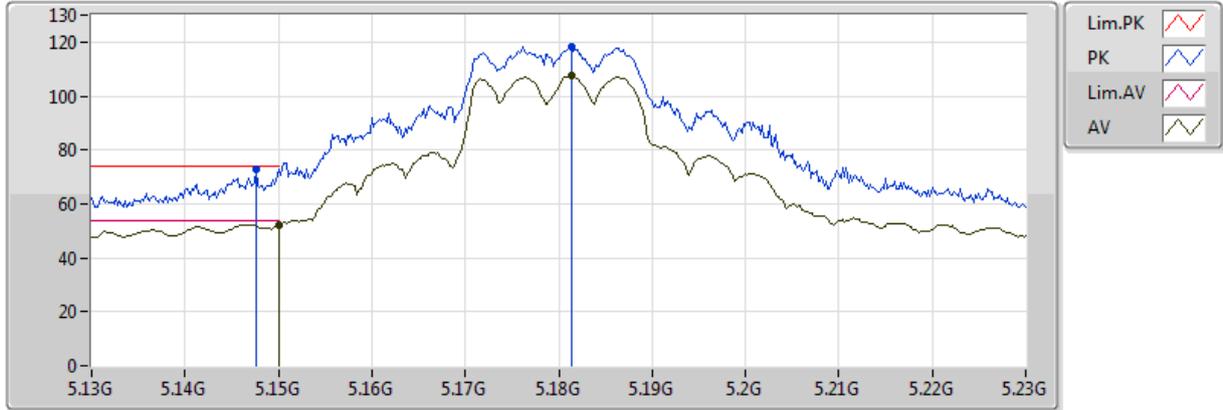

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20171220
EUT Y_3TX
Setting 88
03-C-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.149995G	52.35	54.00	-1.65	7.70	3	Vertical	237	1.68				
AV	5.1814G	107.48	Inf	-Inf	7.83	3	Vertical	237	1.68				
PK	5.1476G	72.85	74.00	-1.15	7.69	3	Vertical	237	1.68				
PK	5.1814G	118.19	Inf	-Inf	7.83	3	Vertical	237	1.68				

802.11ac VHT20_Nss1,(MCS0)_3TX
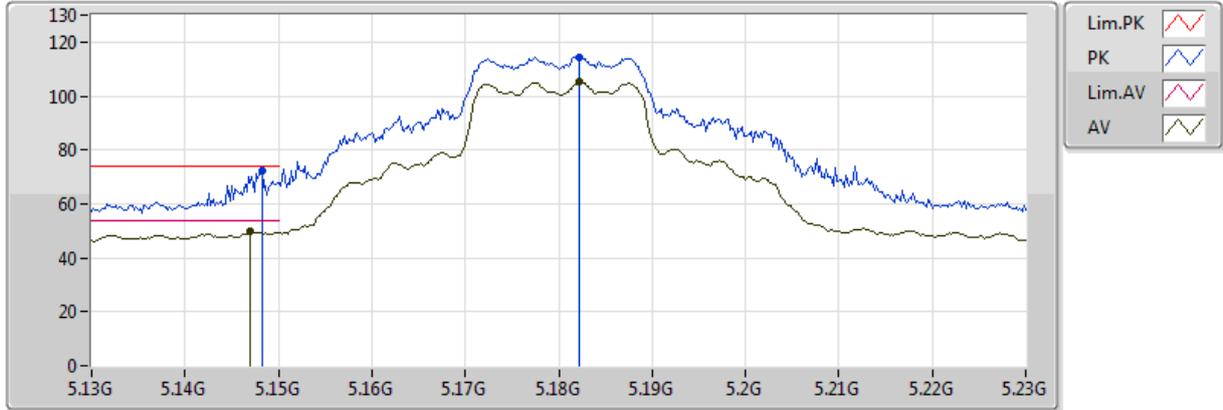
5180MHz_TX


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20171130
EUT Y_3TX
Setting 88
03-R-5-10
FSP
```

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.147G	49.81	54.00	-4.19	5.22	3	Horizontal	64	2.67				
AV	5.1822G	105.15	Inf	-Inf	5.25	3	Horizontal	64	2.67				
PK	5.1482G	72.33	74.00	-1.67	5.22	3	Horizontal	64	2.67				
PK	5.1822G	114.27	Inf	-Inf	5.25	3	Horizontal	64	2.67				

802.11ac VHT20_Nss1,(MCS0)_3TX
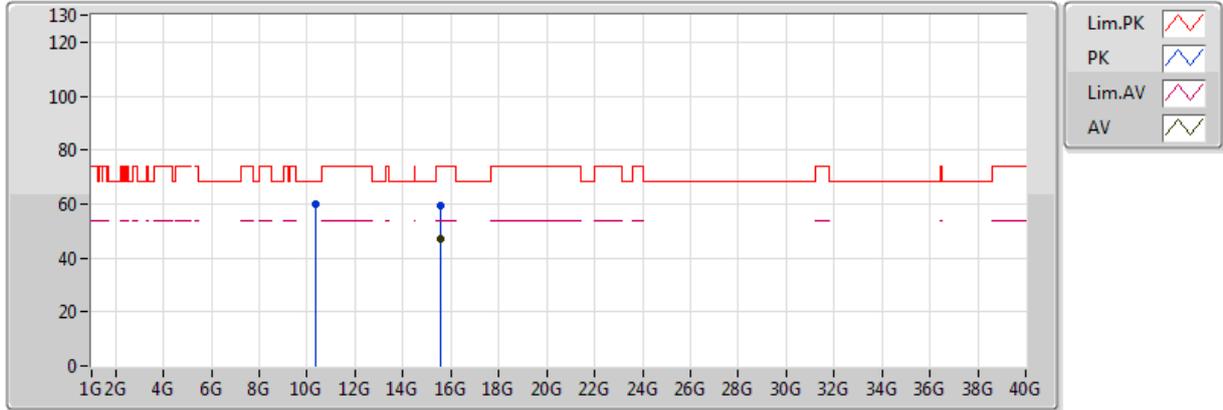
5180MHz_TX

20171225
EUT Y_3TX
Setting 88
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.54056G	46.80	54.00	-7.20	18.68	3	Vertical	128	1.63				
PK	10.36304G	59.82	68.20	-8.38	14.71	3	Vertical	173	1.97				
PK	15.54096G	59.60	74.00	-14.40	18.68	3	Vertical	128	1.63				

802.11ac VHT20_Nss1,(MCS0)_3TX
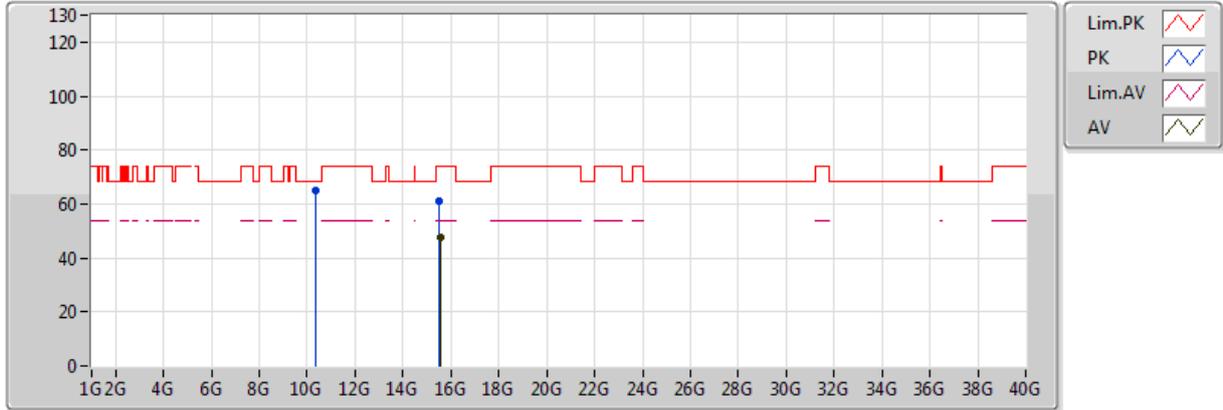
5180MHz_TX

Lim.PK	
PK	
Lim.AV	
AV	

20171225
EUT Y_3TX
Setting 88
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.54184G	47.56	54.00	-6.44	18.68	3	Horizontal	274	1.17				
PK	10.35968G	65.18	68.20	-3.02	14.71	3	Horizontal	347	1.21				
PK	15.53712G	60.86	74.00	-13.14	18.68	3	Horizontal	274	1.17				

802.11ac VHT20_Nss1,(MCS0)_3TX
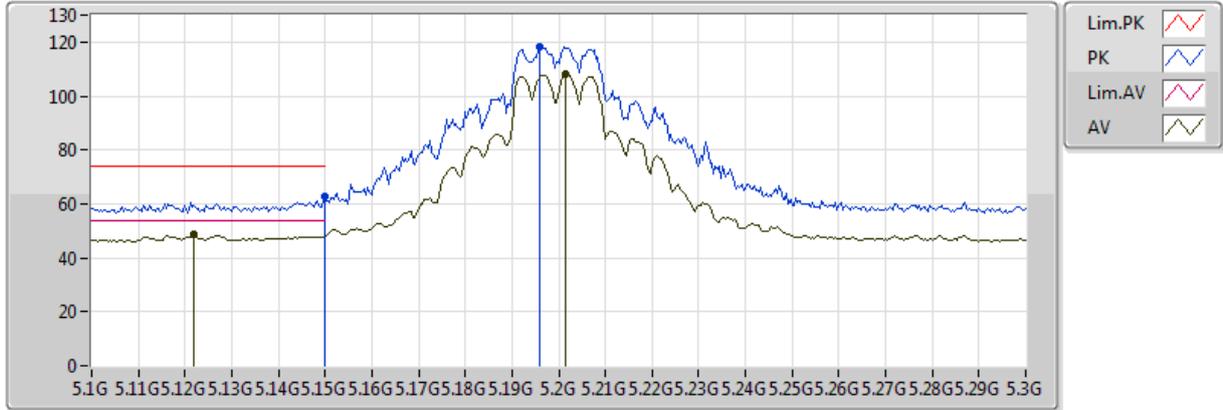
5200MHz_TX


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20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.122G	48.49	54.00	-5.51	5.20	3	Vertical	26	1.38				
AV	5.2016G	108.14	Inf	-Inf	5.27	3	Vertical	26	1.38				
PK	5.149995G	62.63	74.00	-11.37	5.22	3	Vertical	26	1.38				
PK	5.196G	118.51	Inf	-Inf	5.26	3	Vertical	26	1.38				

802.11ac VHT20_Nss1,(MCS0)_3TX
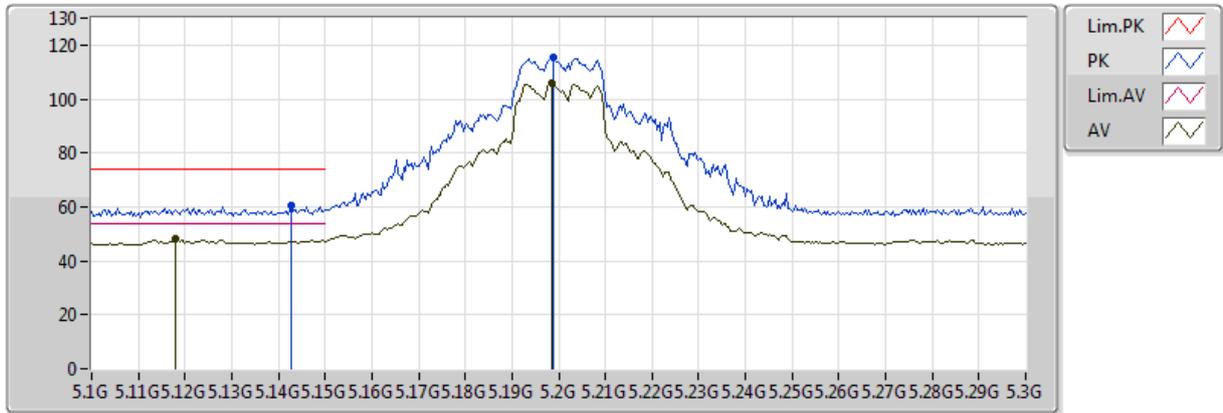
5200MHz_TX

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.118G	48.00	54.00	-6.00	5.19	3	Horizontal	93	2.61					
AV	5.1984G	105.82	Inf	-Inf	5.26	3	Horizontal	93	2.61					
PK	5.1428G	60.42	74.00	-13.58	5.21	3	Horizontal	93	2.61					
PK	5.1988G	115.38	Inf	-Inf	5.26	3	Horizontal	93	2.61					

802.11ac VHT20_Nss1,(MCS0)_3TX
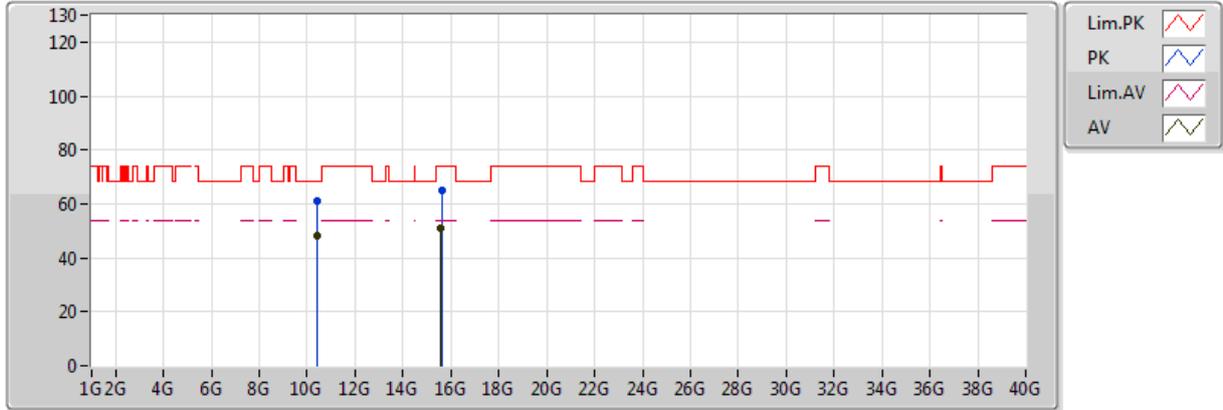
5200MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	10.39856G	48.00	Inf	-Inf	14.72	3	Vertical	153	2.40					
AV	15.60024G	50.98	54.00	-3.02	18.58	3	Vertical	313	2.58					
PK	10.39872G	61.29	68.20	-6.91	14.72	3	Vertical	153	2.40					
PK	15.60568G	65.19	74.00	-8.81	18.57	3	Vertical	313	2.58					

802.11ac VHT20_Nss1,(MCS0)_3TX
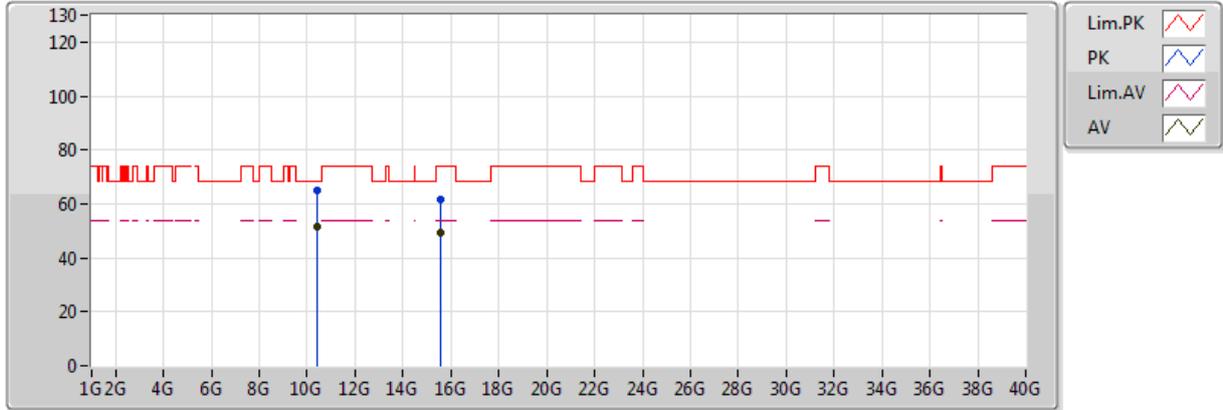
5200MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	10.39976G	51.83	Inf	-Inf	14.72	3	Horizontal	335	2.12				
AV	15.60032G	49.26	54.00	-4.74	18.58	3	Horizontal	67	1.78				
PK	10.39984G	65.16	68.20	-3.04	14.72	3	Horizontal	335	2.12				
PK	15.59544G	61.78	74.00	-12.22	18.59	3	Horizontal	67	1.78				

802.11ac VHT20_Nss1,(MCS0)_3TX
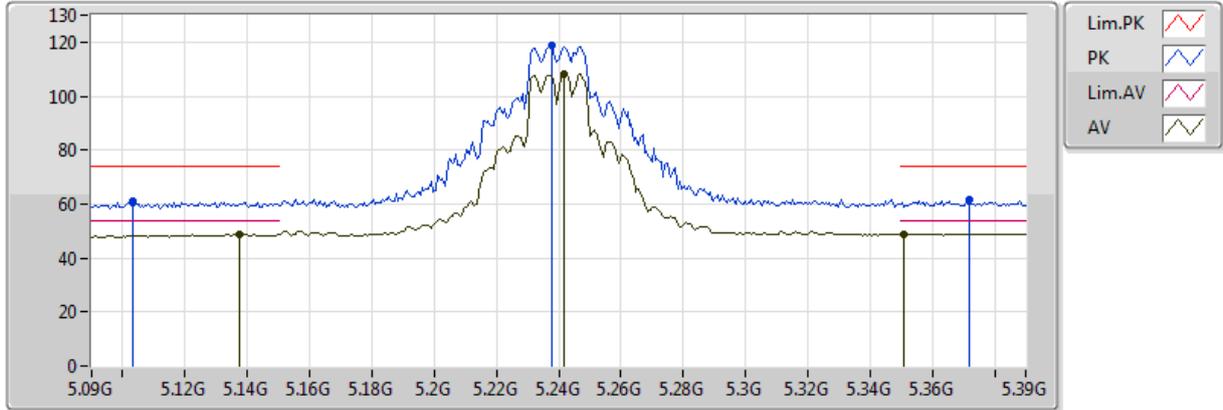
5240MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1374G	48.72	54.00	-5.28	9.87	3	Vertical	103	1.54					
AV	5.2418G	108.32	Inf	-Inf	10.28	3	Vertical	103	1.54					
AV	5.351G	48.91	54.00	-5.09	10.96	3	Vertical	103	1.54					
PK	5.1032G	60.86	74.00	-13.14	9.79	3	Vertical	103	1.54					
PK	5.2376G	118.92	Inf	-Inf	10.25	3	Vertical	103	1.54					
PK	5.372G	61.67	74.00	-12.33	11.09	3	Vertical	103	1.54					

802.11ac VHT20_Nss1,(MCS0)_3TX
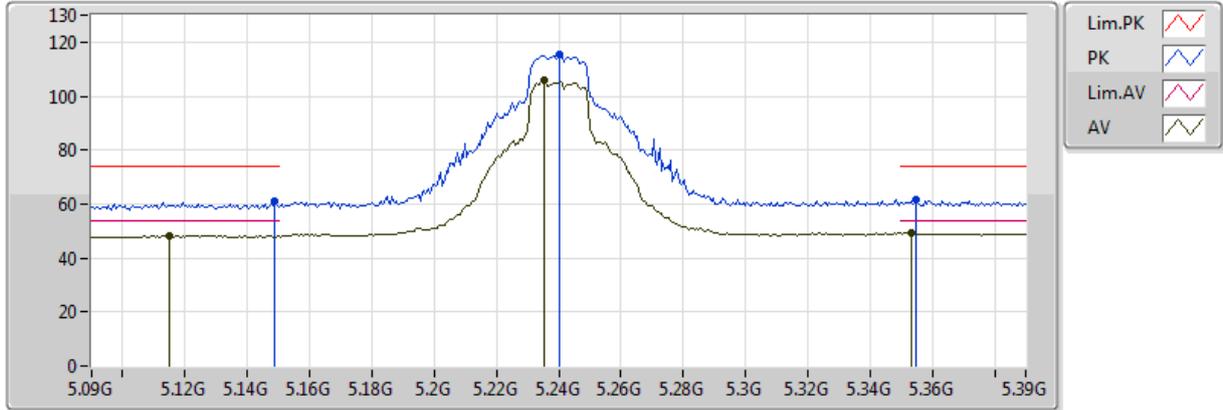
5240MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1152G	48.20	54.00	-5.80	9.82	3	Horizontal	151	1.49				
AV	5.2352G	105.80	Inf	-Inf	10.24	3	Horizontal	151	1.49				
AV	5.3534G	49.20	54.00	-4.80	10.97	3	Horizontal	151	1.49				
PK	5.1488G	61.24	74.00	-12.76	9.90	3	Horizontal	151	1.49				
PK	5.24G	115.30	Inf	-Inf	10.27	3	Horizontal	151	1.49				
PK	5.3546G	61.66	74.00	-12.34	10.98	3	Horizontal	151	1.49				

802.11ac VHT20_Nss1,(MCS0)_3TX
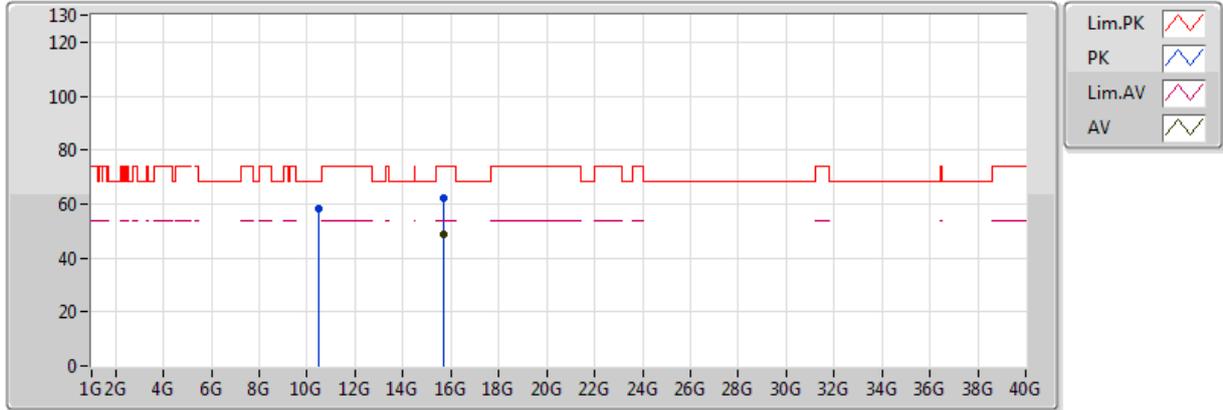
5240MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)			
AV	15.72042G	48.98	54.00	-5.02	18.38	3	Vertical	192	2.32			
PK	10.48216G	58.54	68.20	-9.66	14.72	3	Vertical	72	2.05			
PK	15.72012G	62.32	74.00	-11.68	18.38	3	Vertical	192	2.32			

802.11ac VHT20_Nss1,(MCS0)_3TX
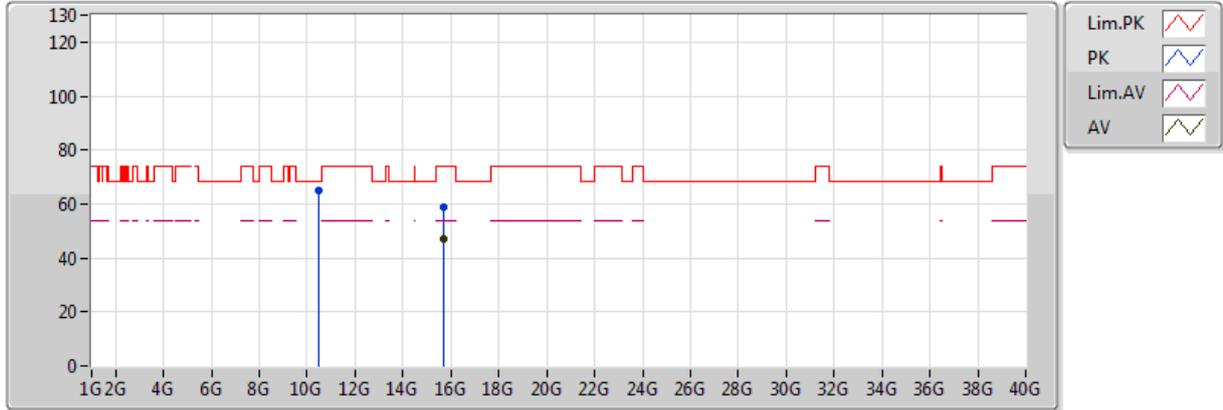
5240MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.7209G	46.98	54.00	-7.02	18.38	3	Horizontal	287	1.53				
PK	10.4798G	65.06	68.20	-3.14	14.72	3	Horizontal	212	1.36				
PK	15.7155G	58.81	74.00	-15.19	18.39	3	Horizontal	287	1.53				

802.11ac VHT20_Nss1,(MCS0)_3TX
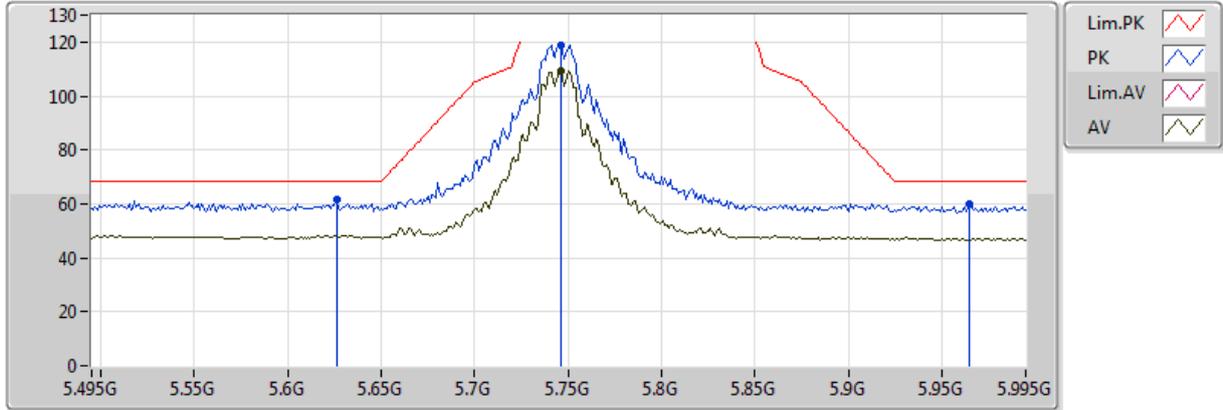
5745MHz_TX

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.746G	109.40	Inf	-Inf	6.40	3	Vertical	239	1.55				
PK	5.626G	61.55	68.20	-6.65	6.21	3	Vertical	239	1.55				
PK	5.746G	118.95	Inf	-Inf	6.40	3	Vertical	239	1.55				
PK	5.965G	59.89	68.20	-8.31	6.38	3	Vertical	239	1.55				

802.11ac VHT20_Nss1,(MCS0)_3TX
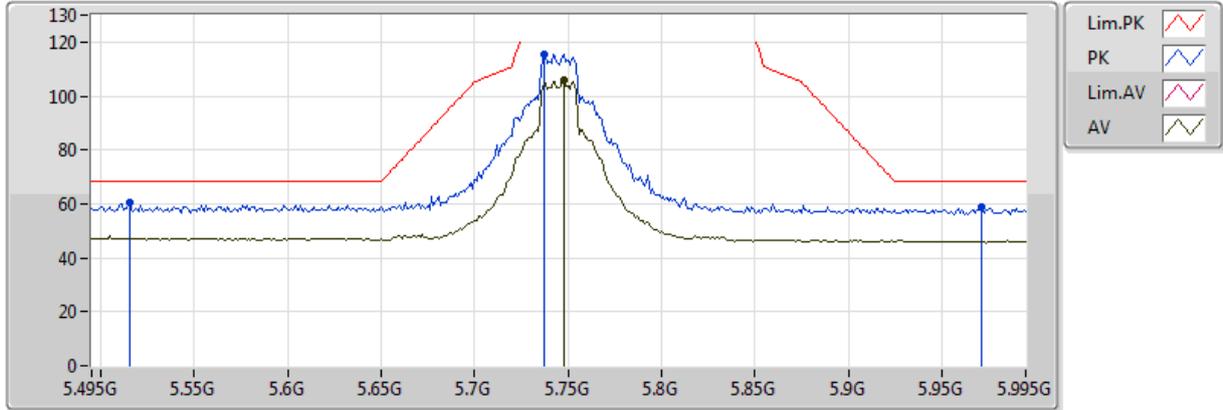
5745MHz_TX


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20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.748G	106.05	Inf	-Inf	6.41	3	Horizontal	70	2.16				
PK	5.515G	60.75	68.20	-7.45	6.16	3	Horizontal	70	2.16				
PK	5.737G	115.41	Inf	-Inf	6.39	3	Horizontal	70	2.16				
PK	5.971G	58.63	68.20	-9.57	6.38	3	Horizontal	70	2.16				

802.11ac VHT20_Nss1,(MCS0)_3TX
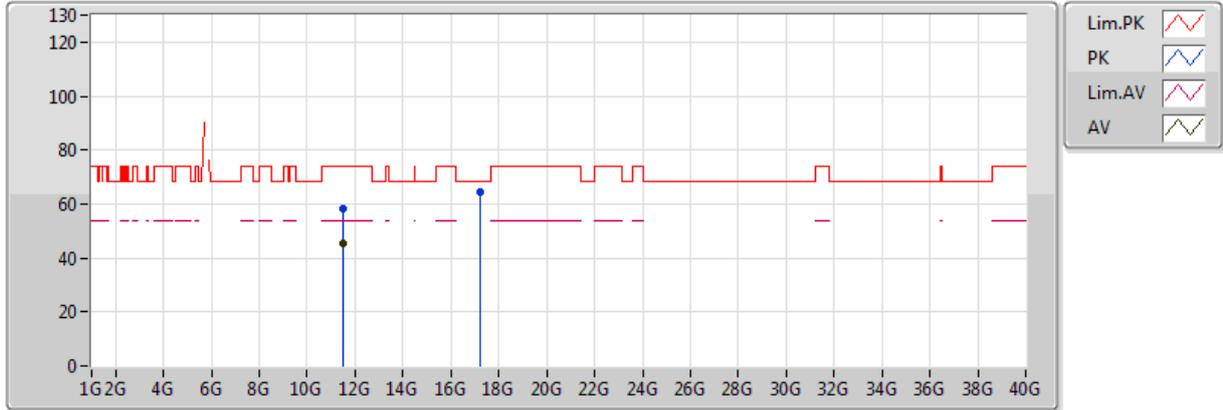
5745MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.49048G	45.31	54.00	-8.69	15.44	3	Vertical	297	1.96				
PK	11.4908G	58.52	74.00	-15.48	15.44	3	Vertical	297	1.96				
PK	17.23532G	64.31	68.20	-3.89	22.06	3	Vertical	237	2.89				

802.11ac VHT20_Nss1,(MCS0)_3TX
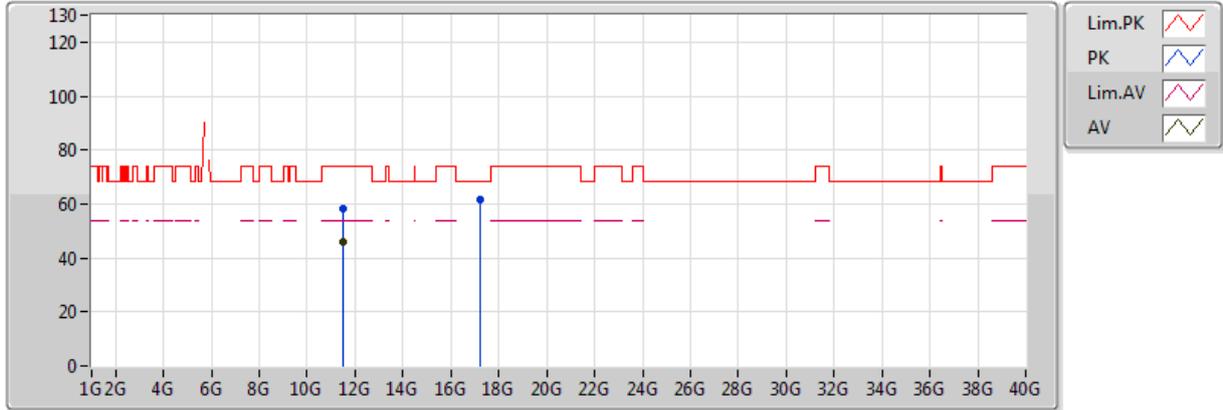
5745MHz_TX


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20171225
EUT Y_3TX
Setting 92
02_B-2
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.49016G	45.67	54.00	-8.33	15.44	3	Horizontal	311	2.31					
PK	11.4856G	58.25	74.00	-15.75	15.44	3	Horizontal	311	2.31					
PK	17.23012G	61.50	68.20	-6.70	22.04	3	Horizontal	353	2.98					

802.11ac VHT20_Nss1,(MCS0)_3TX
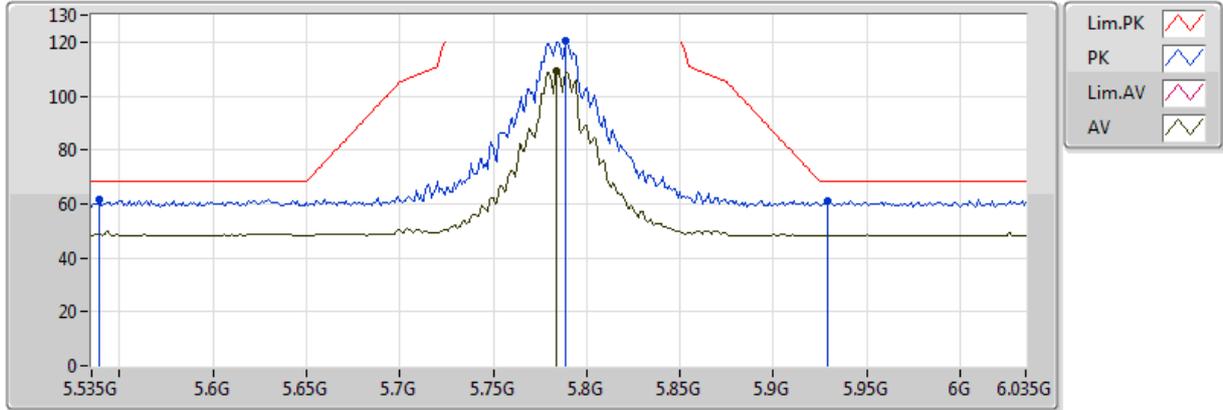
5785MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.784G	109.19	Inf	-Inf	10.72	3	Vertical	75	2.72					
PK	5.539G	61.90	68.20	-6.30	10.78	3	Vertical	75	2.72					
PK	5.789G	120.38	Inf	-Inf	10.72	3	Vertical	75	2.72					
PK	5.929G	61.26	68.20	-6.94	11.09	3	Vertical	75	2.72					

802.11ac VHT20_Nss1,(MCS0)_3TX
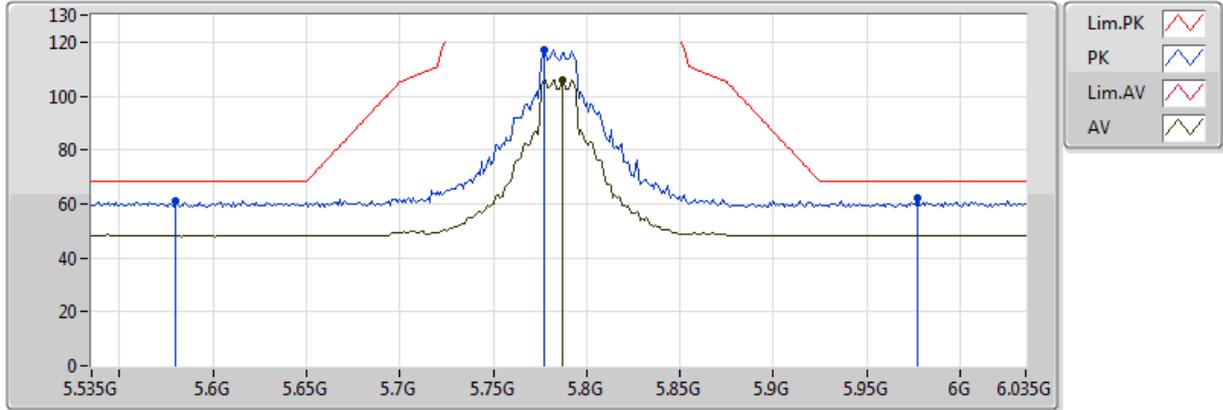
5785MHz_TX


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20171225
EUT Y_3TX
Setting 92
02_B-2
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.787G	106.05	Inf	-Inf	10.72	3	Horizontal	56	2.04				
PK	5.58G	60.96	68.20	-7.24	10.59	3	Horizontal	56	2.04				
PK	5.777G	117.19	Inf	-Inf	10.71	3	Horizontal	56	2.04				
PK	5.977G	62.39	68.20	-5.81	11.21	3	Horizontal	56	2.04				

802.11ac VHT20_Nss1,(MCS0)_3TX
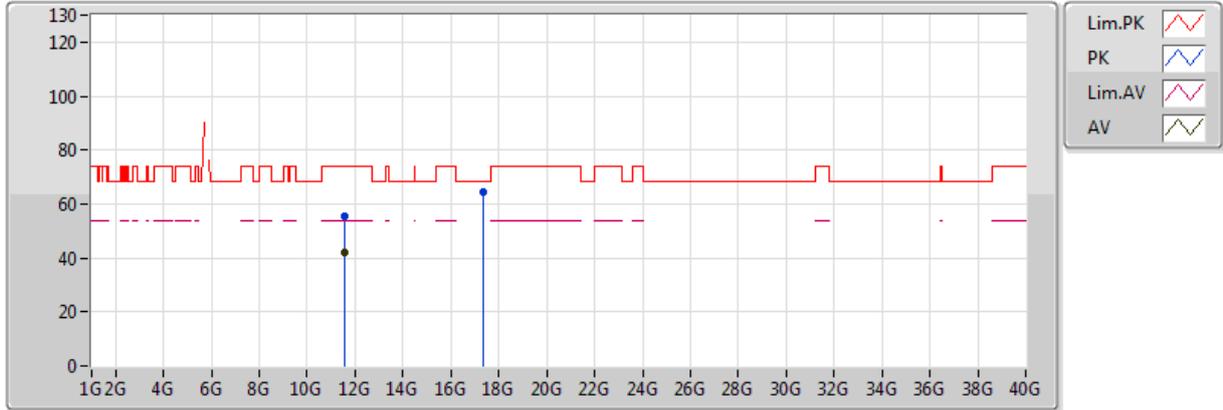
5785MHz_TX

	Lim.PK	∿
	PK	∿
	Lim.AV	∿
	AV	∿

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.5724G	41.87	54.00	-12.13	15.55	3	Vertical	169	1.87				
PK	11.56784G	55.29	74.00	-18.71	15.55	3	Vertical	169	1.87				
PK	17.3602G	64.17	68.20	-4.03	22.67	3	Vertical	145	2.59				

802.11ac VHT20_Nss1,(MCS0)_3TX
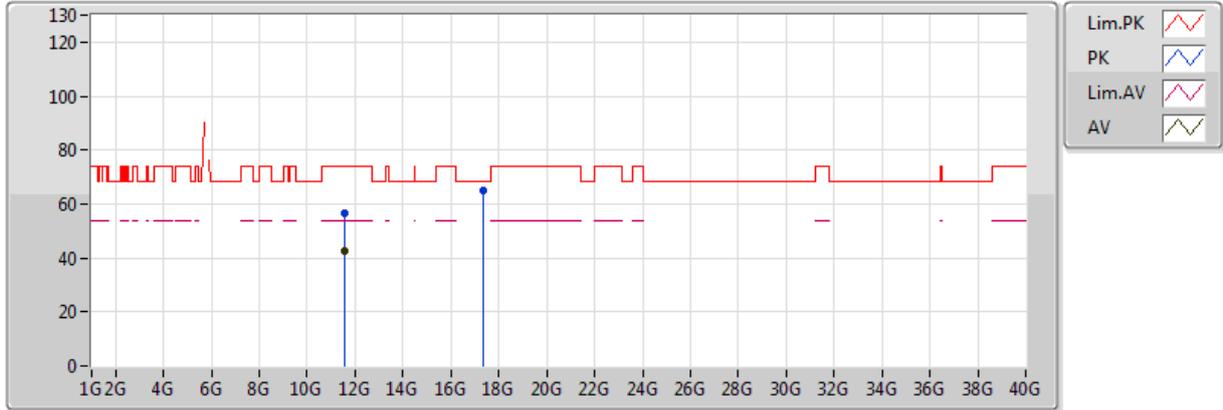
5785MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.57048G	42.70	54.00	-11.30	15.55	3	Horizontal	133	1.52				
PK	11.5704G	56.56	74.00	-17.44	15.55	3	Horizontal	133	1.52				
PK	17.3602G	64.96	68.20	-3.24	22.67	3	Horizontal	240	2.62				

802.11ac VHT20_Nss1,(MCS0)_3TX
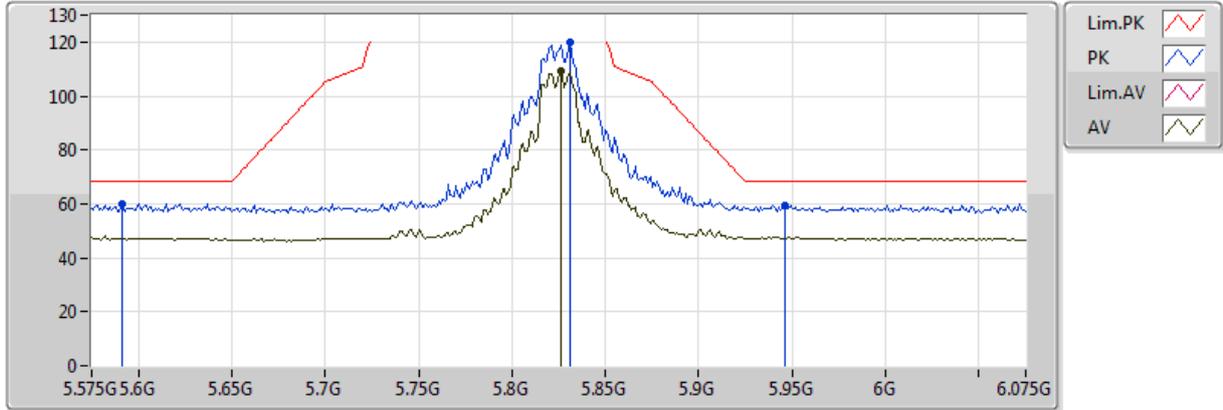
5825MHz_TX

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.826G	109.20	Inf	-Inf	6.47	3	Vertical	239	1.50					
PK	5.591G	59.87	68.20	-8.33	6.17	3	Vertical	239	1.50					
PK	5.831G	120.05	Inf	-Inf	6.47	3	Vertical	239	1.50					
PK	5.946G	59.48	68.20	-8.72	6.39	3	Vertical	239	1.50					

802.11ac VHT20_Nss1,(MCS0)_3TX
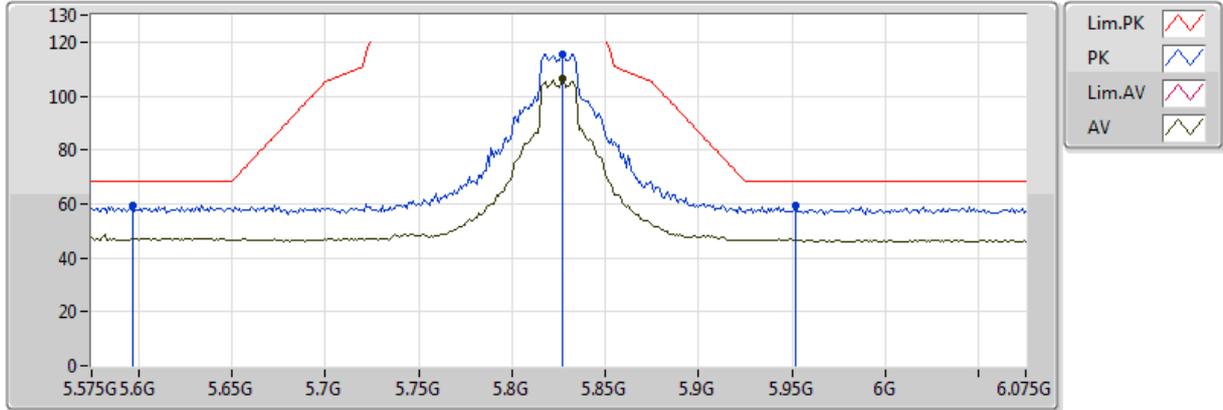
5825MHz_TX

20171130
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.827G	106.23	Inf	-Inf	6.47	3	Horizontal	71	1.33				
PK	5.597G	59.54	68.20	-8.66	6.17	3	Horizontal	71	1.33				
PK	5.827G	115.66	Inf	-Inf	6.47	3	Horizontal	71	1.33				
PK	5.952G	59.22	68.20	-8.98	6.39	3	Horizontal	71	1.33				

802.11ac VHT20_Nss1,(MCS0)_3TX
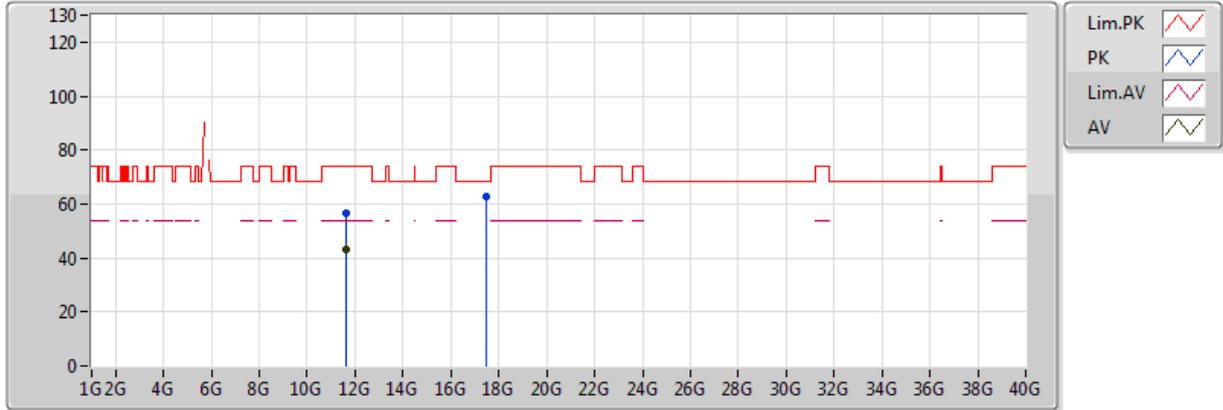
5825MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.64912G	43.22	54.00	-10.78	15.66	3	Vertical	271	2.80				
PK	11.63944G	56.63	74.00	-17.37	15.65	3	Vertical	271	2.80				
PK	17.47524G	62.92	68.20	-5.28	19.81	3	Vertical	269	1.98				

802.11ac VHT20_Nss1,(MCS0)_3TX
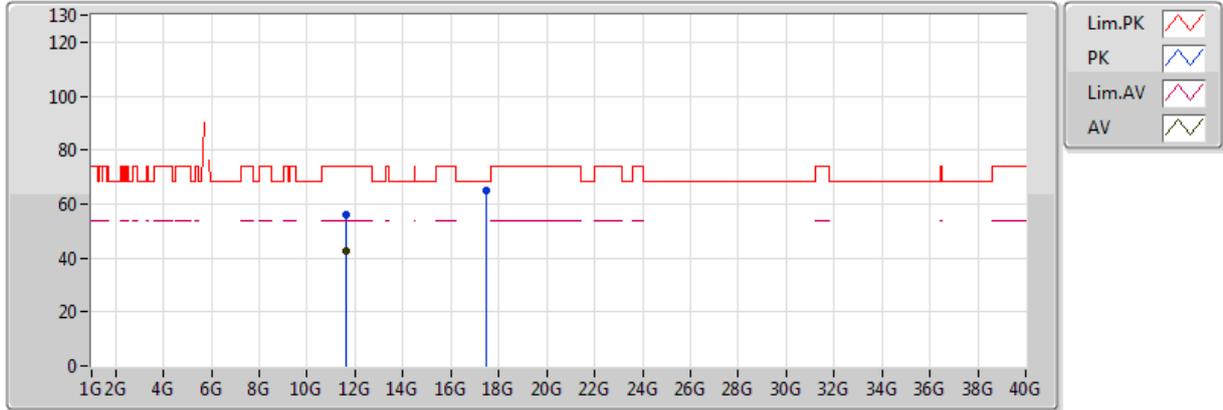
5825MHz_TX

20171225
EUT Y_3TX
Setting 92
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.65048G	42.83	54.00	-11.17	15.66	3	Horizontal	288	2.34				
PK	11.65024G	55.76	74.00	-18.24	15.66	3	Horizontal	288	2.34				
PK	17.47556G	65.19	68.20	-3.01	23.23	3	Horizontal	322	2.51				

802.11ac VHT40_Nss1,(MCS0)_3TX
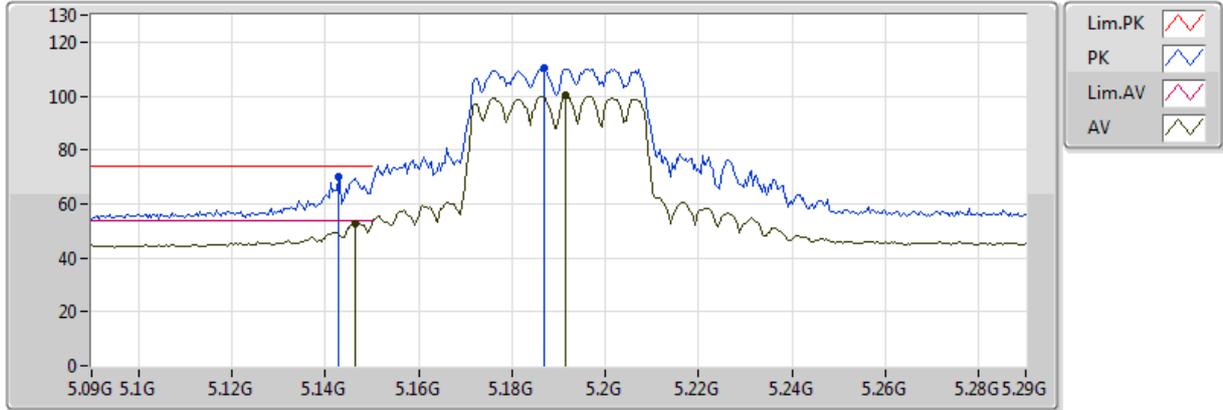
5190MHz_TX

20171127
EUT Y_3TX
Setting 69
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1464G	52.76	54.00	-1.24	5.22	3	Vertical	238	1.95					
AV	5.1916G	100.03	Inf	-Inf	5.25	3	Vertical	238	1.95					
PK	5.1428G	70.03	74.00	-3.97	5.21	3	Vertical	238	1.95					
PK	5.1868G	110.16	Inf	-Inf	5.25	3	Vertical	238	1.95					

802.11ac VHT40_Nss1,(MCS0)_3TX
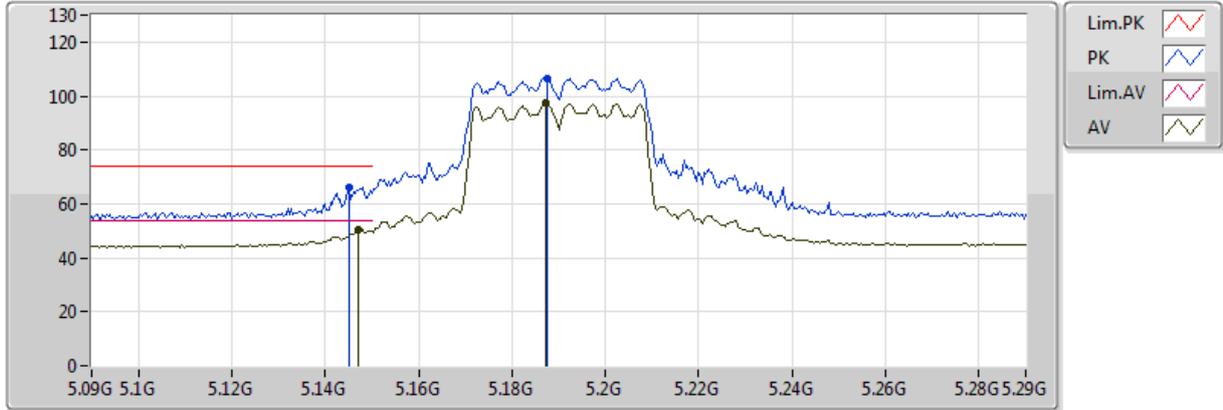
5190MHz_TX

20171127
EUT Y_3TX
Setting 69
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1472G	50.59	54.00	-3.41	5.22	3	Horizontal	67	2.67				
AV	5.1872G	97.37	Inf	-Inf	5.25	3	Horizontal	67	2.67				
PK	5.1452G	66.34	74.00	-7.66	5.22	3	Horizontal	67	2.67				
PK	5.1876G	106.65	Inf	-Inf	5.25	3	Horizontal	67	2.67				

802.11ac VHT40_Nss1,(MCS0)_3TX
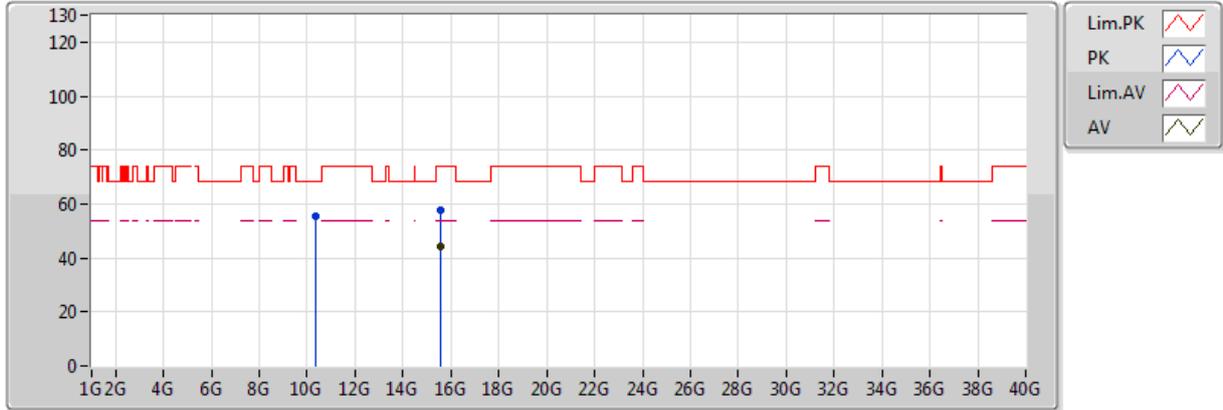
5190MHz_TX

20171225
EUT Y_3TX
Setting 69
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.5636G	44.47	54.00	-9.53	18.64	3	Vertical	294	1.61					
PK	10.37848G	55.35	68.20	-12.85	14.71	3	Vertical	142	1.89					
PK	15.55616G	57.76	74.00	-16.24	18.65	3	Vertical	294	1.61					

802.11ac VHT40_Nss1,(MCS0)_3TX
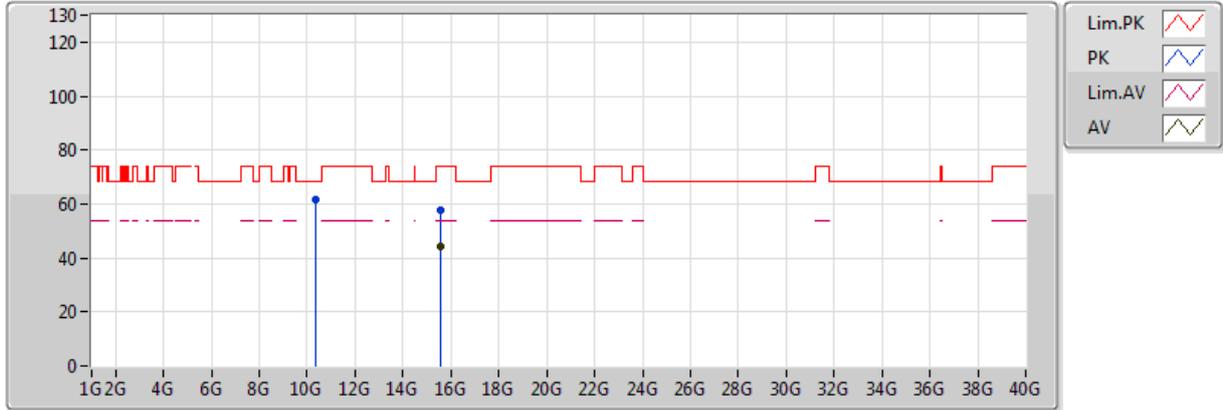
5190MHz_TX

20171225
EUT Y_3TX
Setting 69
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.56408G	44.46	54.00	-9.54	18.64	3	Horizontal	239	2.00
PK	10.37992G	61.58	68.20	-6.62	14.71	3	Horizontal	134	1.84
PK	15.56736G	57.72	74.00	-16.28	18.63	3	Horizontal	239	2.00

802.11ac VHT40_Nss1,(MCS0)_3TX
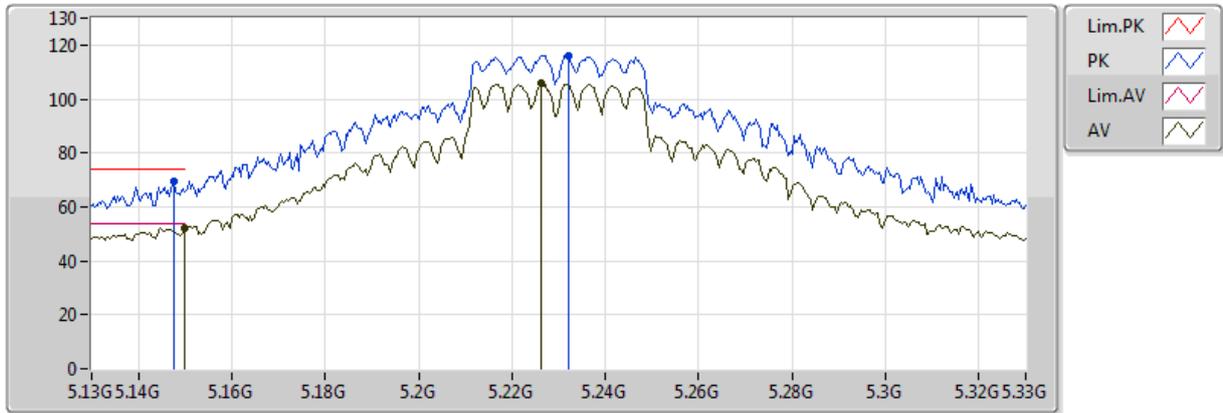
5230MHz_TX

20171127
EUT Y_3TX
Setting 100
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.149995G	52.08	54.00	-1.92	5.22	3	Vertical	236	2.71				
AV	5.2264G	105.75	Inf	-Inf	5.36	3	Vertical	236	2.71				
PK	5.1476G	69.63	74.00	-4.37	5.22	3	Vertical	236	2.71				
PK	5.232G	116.22	Inf	-Inf	5.38	3	Vertical	236	2.71				

802.11ac VHT40_Nss1,(MCS0)_3TX
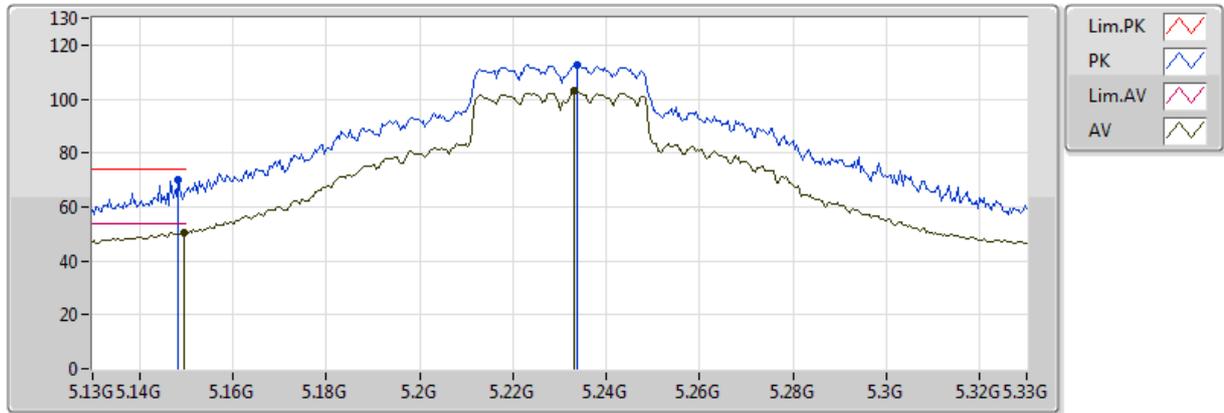
5230MHz_TX

20171127
EUT Y_3TX
Setting 100
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1496G	50.34	54.00	-3.66	5.22	3	Horizontal	92	1.39					
AV	5.2332G	103.25	Inf	-Inf	5.39	3	Horizontal	92	1.39					
PK	5.1484G	69.81	74.00	-4.19	5.22	3	Horizontal	92	1.39					
PK	5.2336G	112.53	Inf	-Inf	5.39	3	Horizontal	92	1.39					

802.11ac VHT40_Nss1,(MCS0)_3TX
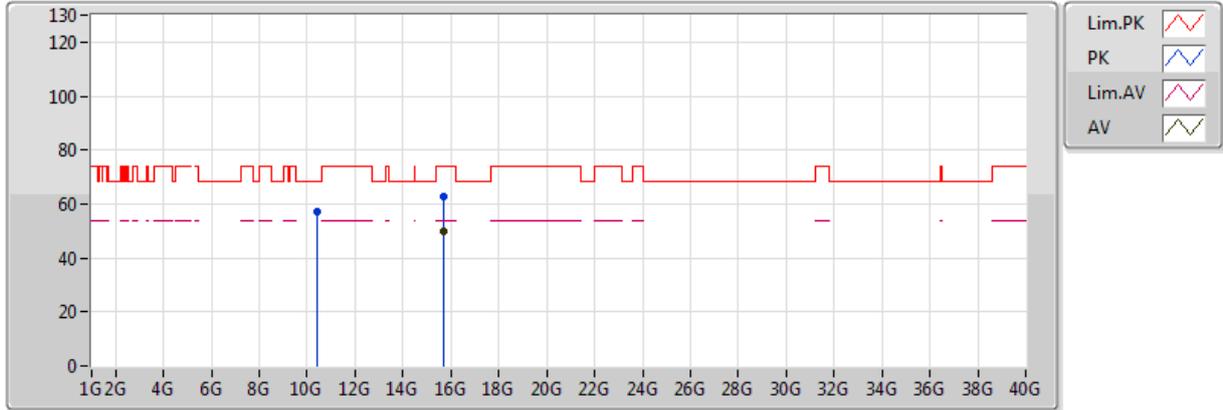
5230MHz_TX

20171225
EUT Y_3TX
Setting 100
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.68488G	50.09	54.00	-3.91	18.44	3	Vertical	149	2.60				
PK	10.44744G	57.35	68.20	-10.85	14.72	3	Vertical	329	2.38				
PK	15.69488G	62.98	74.00	-11.02	18.42	3	Vertical	149	2.60				

802.11ac VHT40_Nss1,(MCS0)_3TX
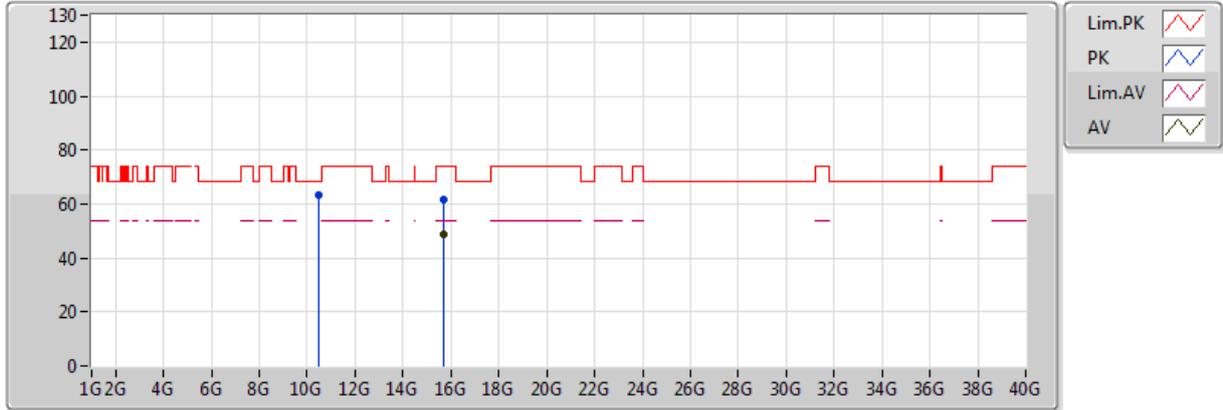
5230MHz_TX

20171225
EUT Y_3TX
Setting 100
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.67768G	48.62	54.00	-5.38	18.45	3	Horizontal	268	2.86					
PK	10.46008G	63.10	68.20	-5.10	14.72	3	Horizontal	121	1.92					
PK	15.68736G	61.42	74.00	-12.58	18.43	3	Horizontal	268	2.86					

802.11ac VHT40_Nss1,(MCS0)_3TX
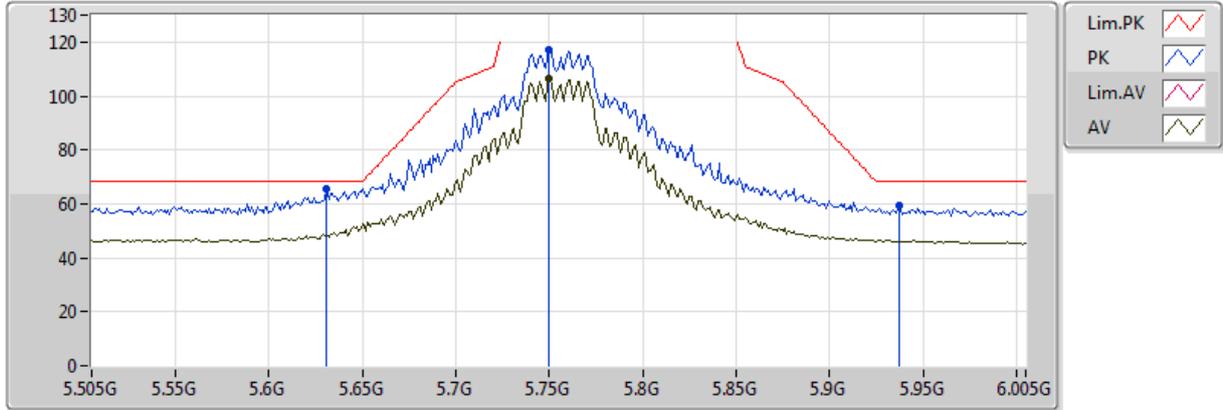
5755MHz_TX

20171127
EUT Y_3TX
Setting 100
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.75G	106.63	Inf	-Inf	6.41	3	Vertical	241	1.54					
PK	5.631G	65.64	68.20	-2.56	6.22	3	Vertical	241	1.54					
PK	5.75G	117.22	Inf	-Inf	6.41	3	Vertical	241	1.54					
PK	5.937G	59.12	68.20	-9.08	6.40	3	Vertical	241	1.54					

802.11ac VHT40_Nss1,(MCS0)_3TX
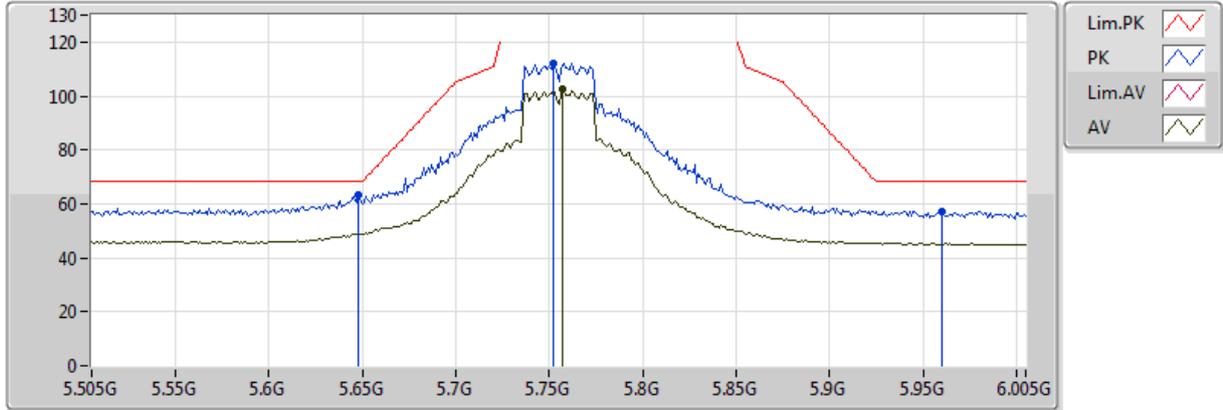
5755MHz_TX

20171127
EUT Y_3TX
Setting 100
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.757G	102.62	Inf	-Inf	6.42	3	Horizontal	72	1.48				
PK	5.648G	63.45	68.20	-4.75	6.25	3	Horizontal	72	1.48				
PK	5.752G	112.21	Inf	-Inf	6.41	3	Horizontal	72	1.48				
PK	5.96G	57.40	68.20	-10.80	6.38	3	Horizontal	72	1.48				

802.11ac VHT40_Nss1,(MCS0)_3TX
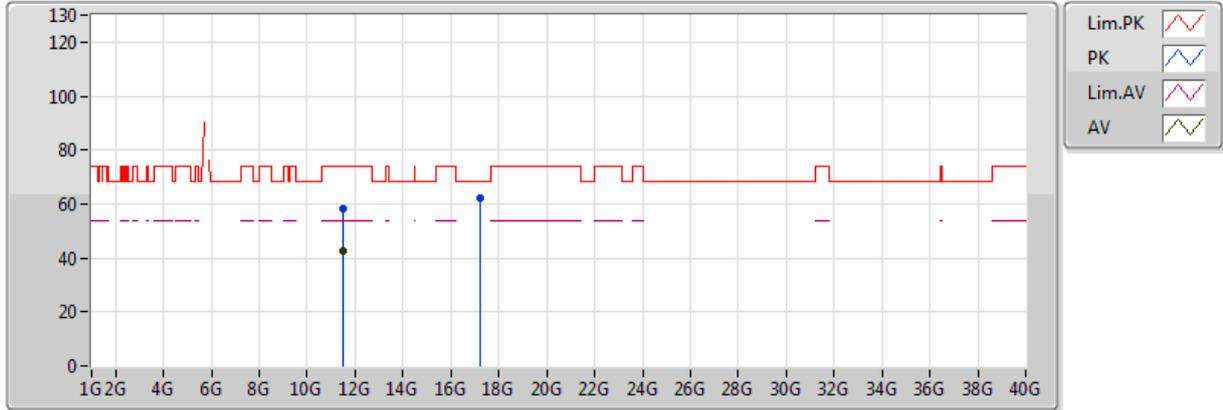
5755MHz_TX

20171225
EUT Y_3TX
Setting 100
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.51008G	42.79	54.00	-11.21	15.47	3	Vertical	50	1.92				
PK	11.51G	58.39	74.00	-15.61	15.47	3	Vertical	50	1.92				
PK	17.24756G	61.99	68.20	-6.21	22.12	3	Vertical	311	1.89				

802.11ac VHT40_Nss1,(MCS0)_3TX
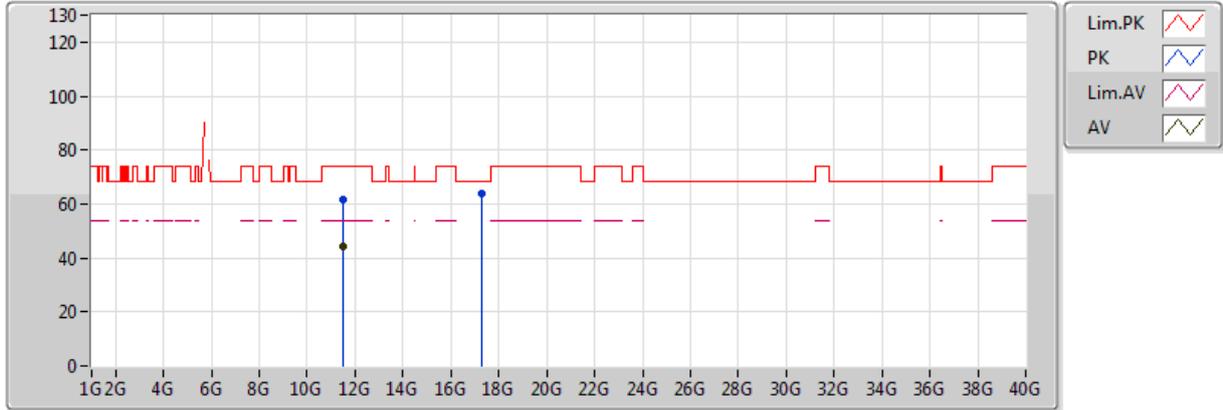
5755MHz_TX

20171225
EUT Y_3TX
Setting 100
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.5097G	44.40	54.00	-9.60	15.47	3	Horizontal	161	1.40				
PK	11.5101G	61.39	74.00	-12.61	15.47	3	Horizontal	161	1.40				
PK	17.26612G	63.88	68.20	-4.32	22.21	3	Horizontal	78	2.89				

802.11ac VHT40_Nss1,(MCS0)_3TX
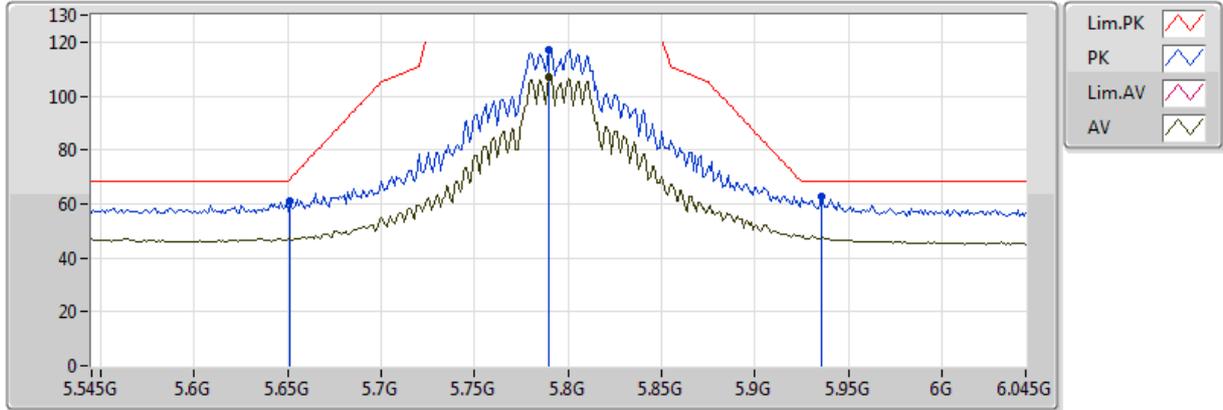
5795MHz_TX


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20171127
EUT Y_3TX
Setting 100
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.79G	107.06	Inf	-Inf	6.47	3	Vertical	243	1.90
PK	5.651G	61.09	68.94	-7.85	6.25	3	Vertical	243	1.90
PK	5.79G	117.22	Inf	-Inf	6.47	3	Vertical	243	1.90
PK	5.936G	63.00	68.20	-5.20	6.40	3	Vertical	243	1.90

802.11ac VHT40_Nss1,(MCS0)_3TX
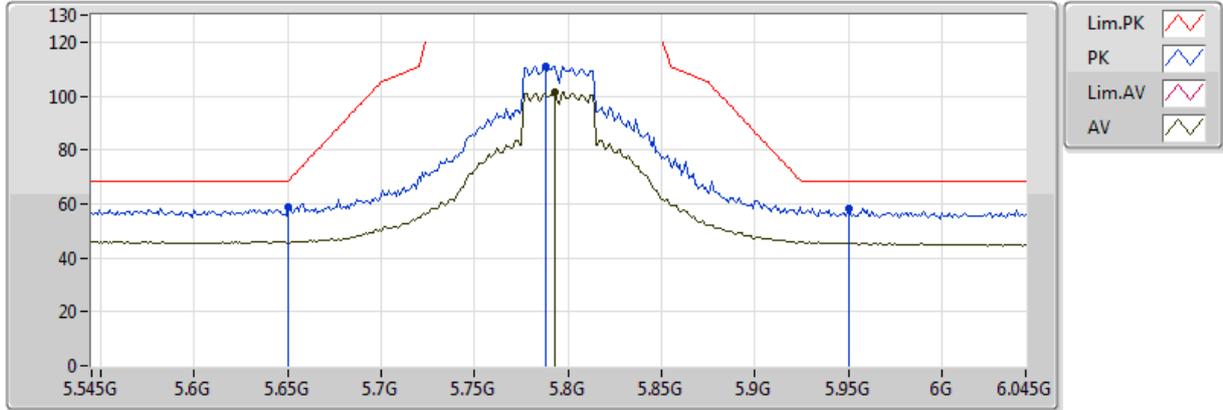
5795MHz_TX

20171127
EUT Y_3TX
Setting 100
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.793G	101.69	Inf	-Inf	6.48	3	Horizontal	71	1.48				
PK	5.65G	59.08	68.20	-9.12	6.25	3	Horizontal	71	1.48				
PK	5.788G	111.06	Inf	-Inf	6.47	3	Horizontal	71	1.48				
PK	5.95G	58.54	68.20	-9.66	6.39	3	Horizontal	71	1.48				

802.11ac VHT40_Nss1,(MCS0)_3TX
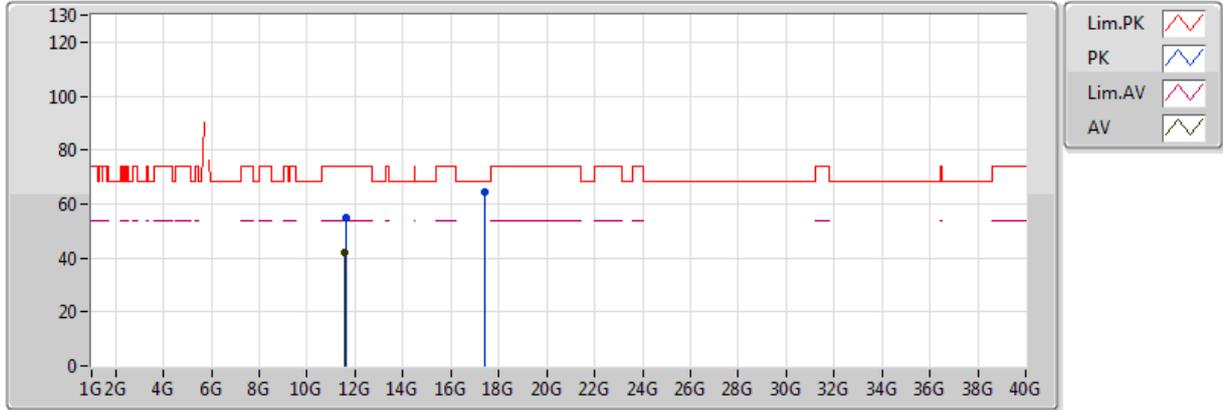
5795MHz_TX

20171225
EUT Y_3TX
Setting 100
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.58528G	41.84	54.00	-12.16	15.57	3	Vertical	201	2.85				
PK	11.59368G	54.78	74.00	-19.22	15.58	3	Vertical	201	2.85				
PK	17.4006G	64.61	68.20	-3.59	22.87	3	Vertical	53	2.03				

802.11ac VHT40_Nss1,(MCS0)_3TX
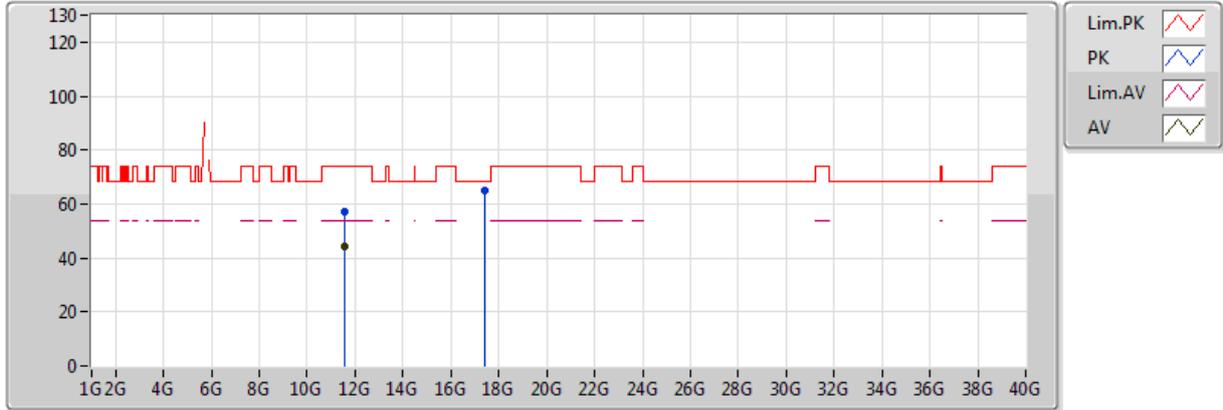
5795MHz_TX

20171225
EUT Y_3TX
Setting 100
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.58544G	44.03	54.00	-9.97	15.57	3	Horizontal	73	2.31					
PK	11.58528G	57.12	74.00	-16.88	15.57	3	Horizontal	73	2.31					
PK	17.39052G	65.11	68.20	-3.09	22.82	3	Horizontal	125	2.49					

802.11ac VHT80_Nss1,(MCS0)_3TX
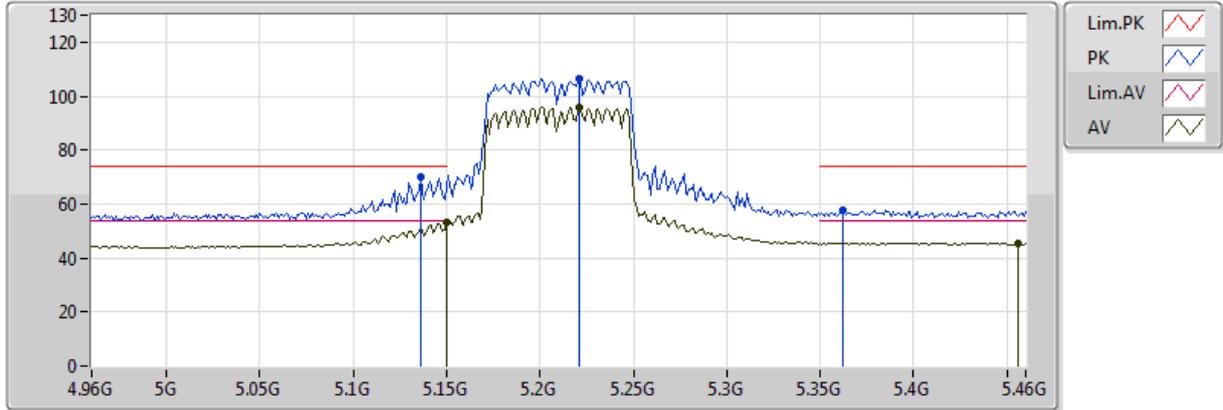
5210MHz_TX

20171127
EUT Y_3TX
Setting 67
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.149995G	52.96	54.00	-1.04	5.22	3	Vertical	98	1.50				
AV	5.221G	95.91	Inf	-Inf	5.34	3	Vertical	98	1.50				
AV	5.456G	45.57	54.00	-8.43	6.09	3	Vertical	98	1.50				
PK	5.136G	70.09	74.00	-3.91	5.21	3	Vertical	98	1.50				
PK	5.221G	106.50	Inf	-Inf	5.34	3	Vertical	98	1.50				
PK	5.362G	57.87	74.00	-16.13	5.86	3	Vertical	98	1.50				

802.11ac VHT80_Nss1,(MCS0)_3TX
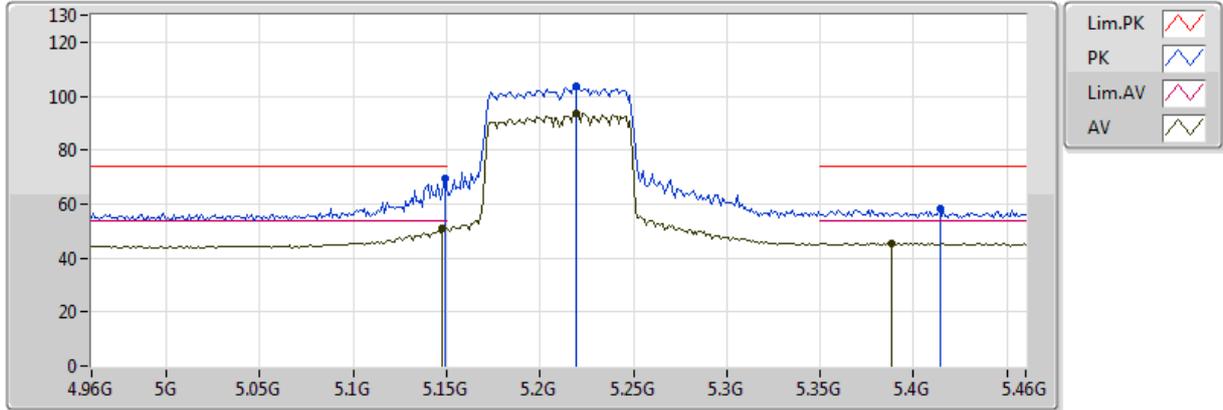
5210MHz_TX

20171127
EUT Y_3TX
Setting 67
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.148G	51.16	54.00	-2.84	5.22	3	Horizontal	90	2.64					
AV	5.219G	93.43	Inf	-Inf	5.33	3	Horizontal	90	2.64					
AV	5.388G	45.52	54.00	-8.48	5.95	3	Horizontal	90	2.64					
PK	5.149G	69.55	74.00	-4.45	5.22	3	Horizontal	90	2.64					
PK	5.219G	103.40	Inf	-Inf	5.33	3	Horizontal	90	2.64					
PK	5.414G	58.49	74.00	-15.51	6.01	3	Horizontal	90	2.64					

802.11ac VHT80_Nss1,(MCS0)_3TX
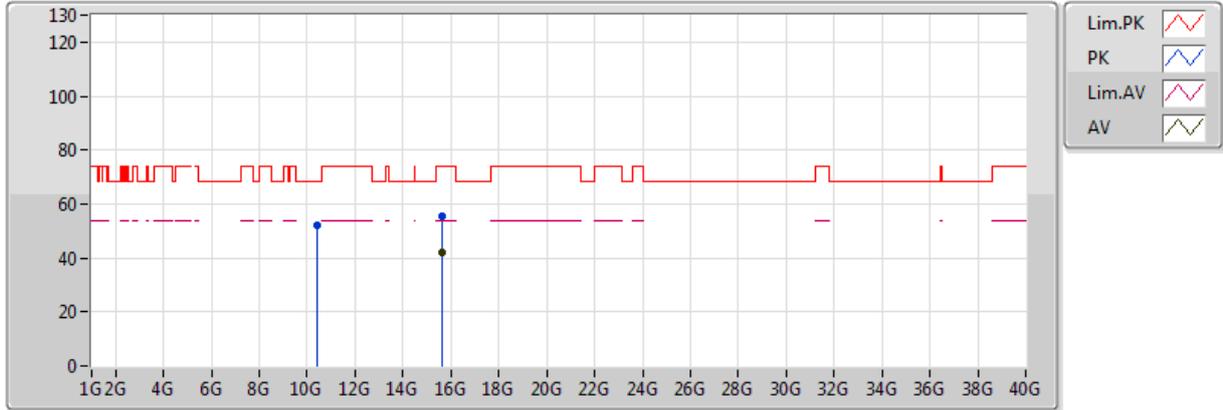
5210MHz_TX

20171225
EUT Y_3TX
Setting 67
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.61208G	42.07	54.00	-11.93	16.03	3	Vertical	181	1.72					
PK	10.40536G	52.37	68.20	-15.83	13.02	3	Vertical	302	1.97					
PK	15.6208G	55.37	74.00	-18.63	16.00	3	Vertical	181	1.72					

802.11ac VHT80_Nss1,(MCS0)_3TX
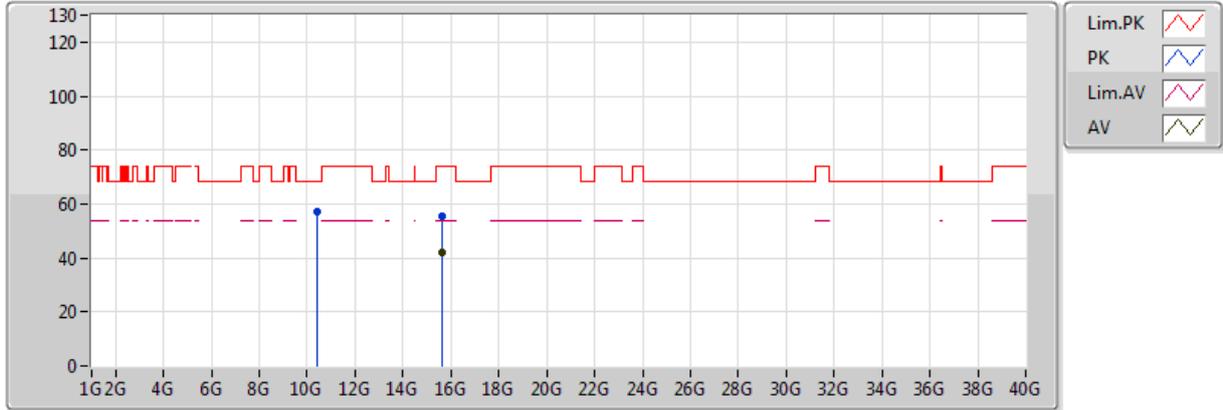
5210MHz_TX

20171225
EUT Y_3TX
Setting 67
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.6176G	42.11	54.00	-11.89	16.01	3	Horizontal	256	2.22				
PK	10.4299G	56.90	68.20	-11.30	13.04	3	Horizontal	43	1.54				
PK	15.61136G	55.60	74.00	-18.40	16.04	3	Horizontal	256	2.22				

802.11ac VHT80_Nss1,(MCS0)_3TX
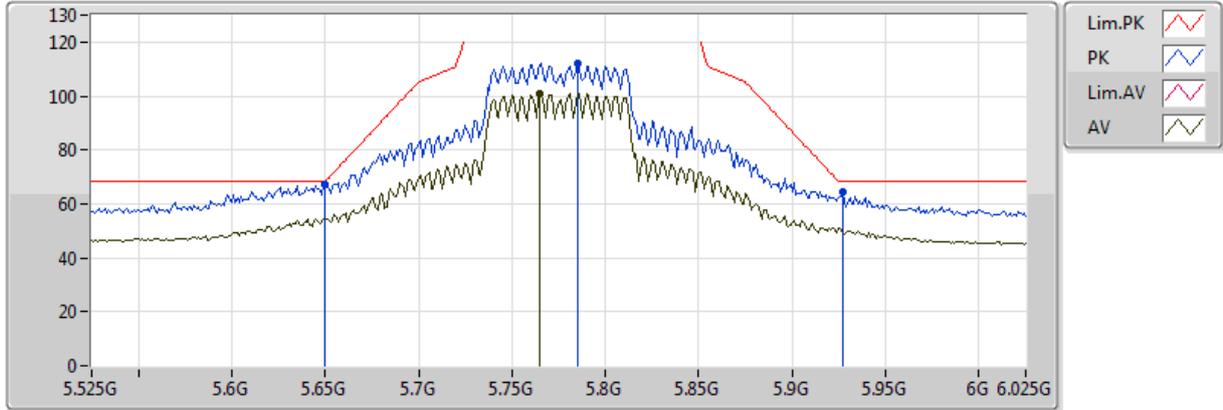
5775MHz_TX

20171127
EUT Y_3TX
Setting 82
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.765G	101.08	Inf	-Inf	6.43	3	Vertical	242	1.91					
PK	5.65G	67.16	68.20	-1.04	6.25	3	Vertical	242	1.91					
PK	5.785G	112.04	Inf	-Inf	6.47	3	Vertical	242	1.91					
PK	5.927G	64.43	68.20	-3.77	6.40	3	Vertical	242	1.91					

802.11ac VHT80_Nss1,(MCS0)_3TX
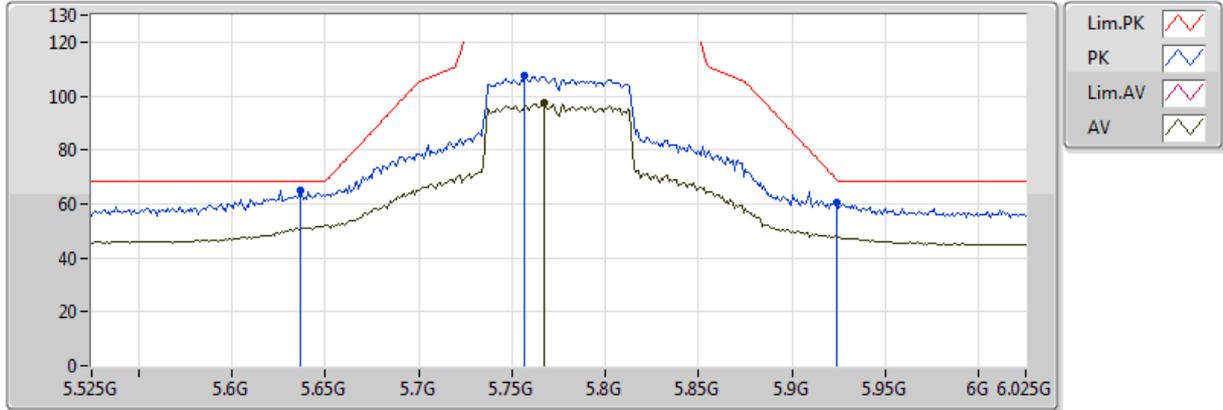
5775MHz_TX

20171127
EUT Y_3TX
Setting 82
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.767G	97.48	Inf	-Inf	6.44	3	Horizontal	77	1.31				
PK	5.637G	64.83	68.20	-3.37	6.23	3	Horizontal	77	1.31				
PK	5.757G	107.32	Inf	-Inf	6.42	3	Horizontal	77	1.31				
PK	5.924G	60.62	68.94	-8.32	6.41	3	Horizontal	77	1.31				

802.11ac VHT80_Nss1,(MCS0)_3TX
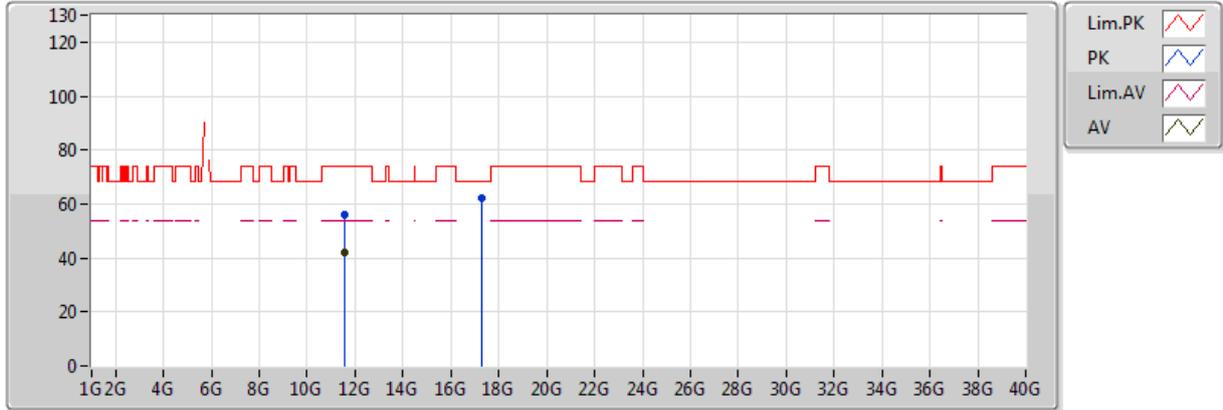
5775MHz_TX

20171225
EUT Y_3TX
Setting 82
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.54976G	41.95	54.00	-12.05	15.52	3	Vertical	327	1.50				
PK	11.536G	56.23	74.00	-17.77	15.50	3	Vertical	327	1.50				
PK	17.3174G	61.95	68.20	-6.25	22.46	3	Vertical	279	1.90				

802.11ac VHT80_Nss1,(MCS0)_3TX
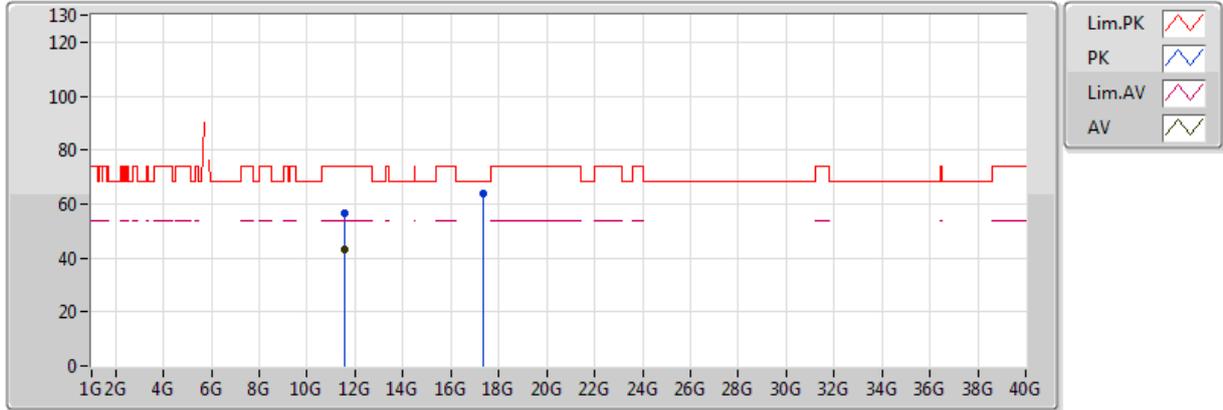
5775MHz_TX

20171225
EUT Y_3TX
Setting 82
02_B-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.53544G	43.17	54.00	-10.83	15.50	3	Horizontal	20	1.83					
PK	11.55568G	56.44	74.00	-17.56	15.53	3	Horizontal	20	1.83					
PK	17.3326G	63.73	68.20	-4.47	22.54	3	Horizontal	337	2.91					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
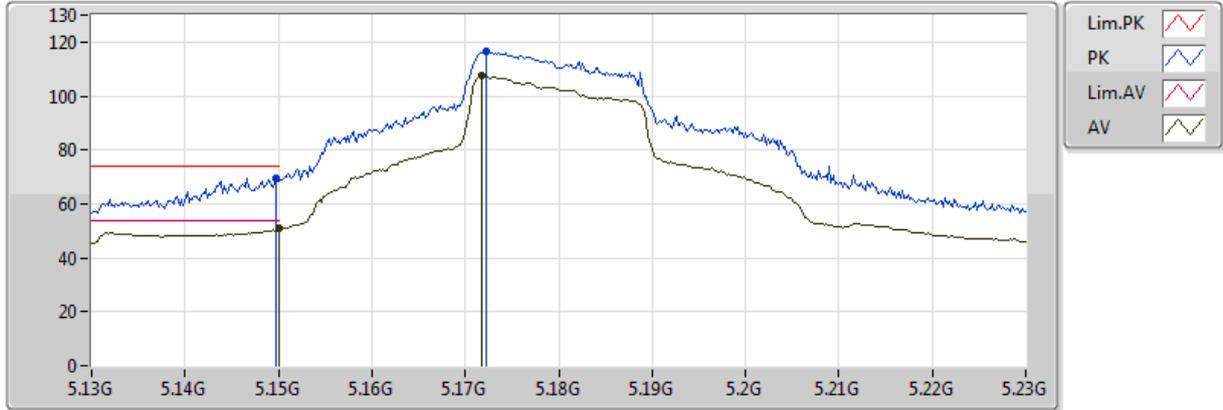
5180MHz_TX


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20171124
EUT Y_3TX
Setting 90
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.149995G	50.94	54.00	-3.06	5.22	3	Vertical	338	1.43				
AV	5.1718G	107.63	Inf	-Inf	5.24	3	Vertical	338	1.43				
PK	5.1498G	69.65	74.00	-4.35	5.22	3	Vertical	338	1.43				
PK	5.1722G	116.46	Inf	-Inf	5.24	3	Vertical	338	1.43				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
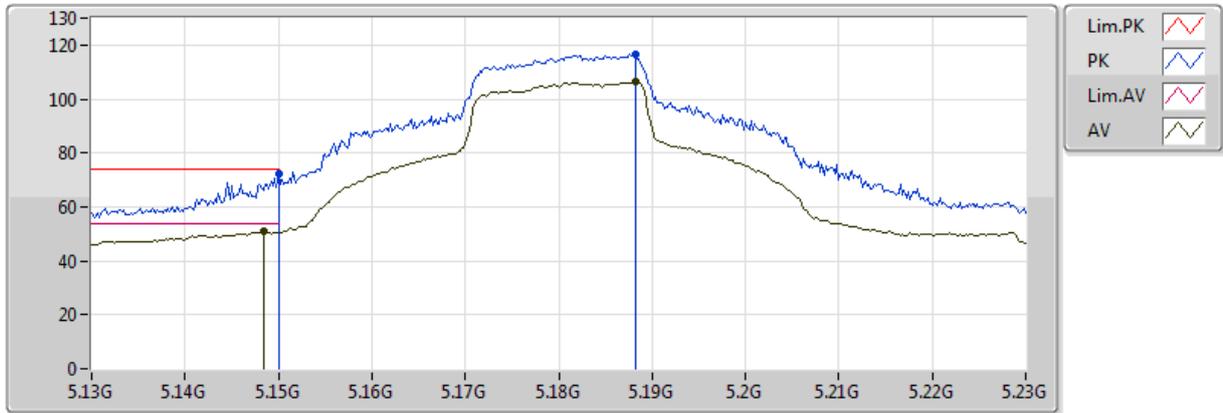
5180MHz_TX

20171124
EUT Y_3TX
Setting 90
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1484G	50.90	54.00	-3.10	5.22	3	Horizontal	92	1.35				
AV	5.1882G	106.25	Inf	-Inf	5.25	3	Horizontal	92	1.35				
PK	5.149995G	72.27	74.00	-1.73	5.22	3	Horizontal	92	1.35				
PK	5.1882G	116.51	Inf	-Inf	5.25	3	Horizontal	92	1.35				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
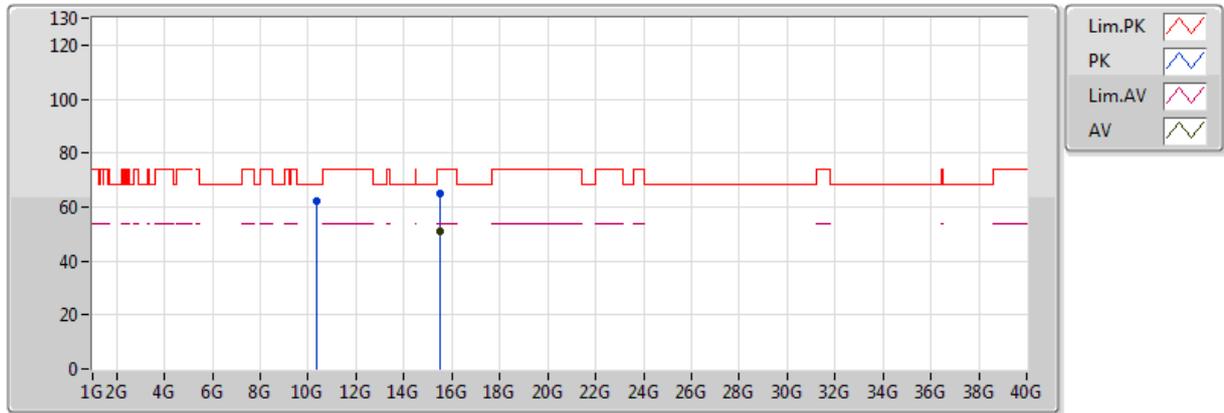
5180MHz_TX

20171226
EUT Y_3TX
Setting 90
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.534G	50.87	54.00	-3.13	16.12	3	Vertical	253	1.89				
PK	10.35796G	61.93	68.20	-6.27	14.53	3	Vertical	97	1.24				
PK	15.5286G	65.20	74.00	-8.80	16.13	3	Vertical	253	1.89				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
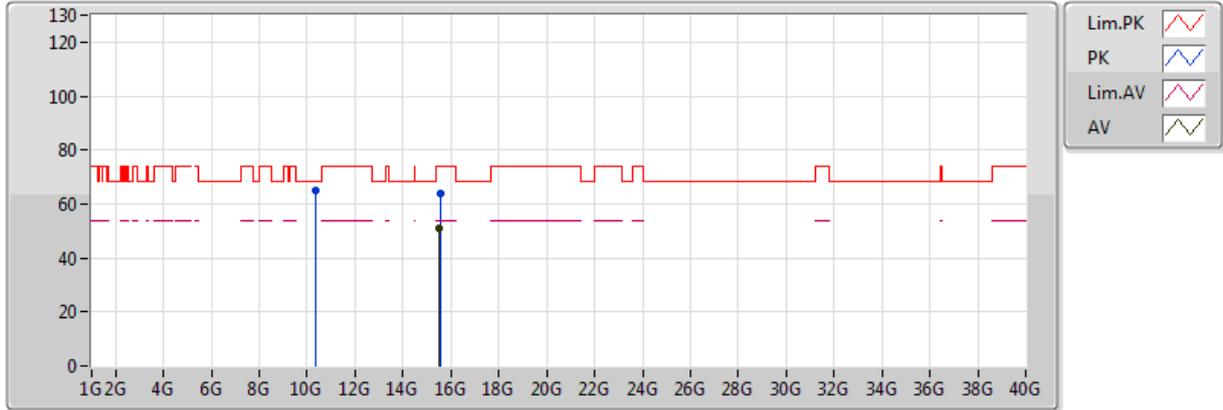
5180MHz_TX


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20171226
EUT Y_3TX
Setting 90
03-Z-1
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.53384G	50.91	54.00	-3.09	16.12	3	Horizontal	147	1.01					
PK	10.35496G	65.13	68.20	-3.07	14.53	3	Horizontal	248	1.67					
PK	15.5396G	63.77	74.00	-10.23	16.10	3	Horizontal	147	1.01					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
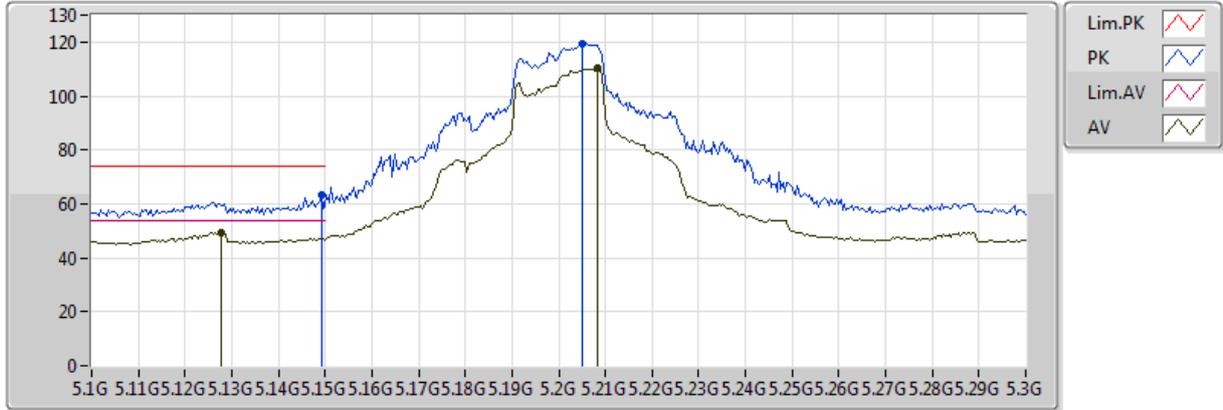
5200MHz_TX

20171124
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1276G	49.31	54.00	-4.69	5.20	3	Vertical	22	1.62					
AV	5.2084G	110.48	Inf	-Inf	5.29	3	Vertical	22	1.62					
PK	5.1492G	63.04	74.00	-10.96	5.22	3	Vertical	22	1.62					
PK	5.2052G	119.22	Inf	-Inf	5.28	3	Vertical	22	1.62					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
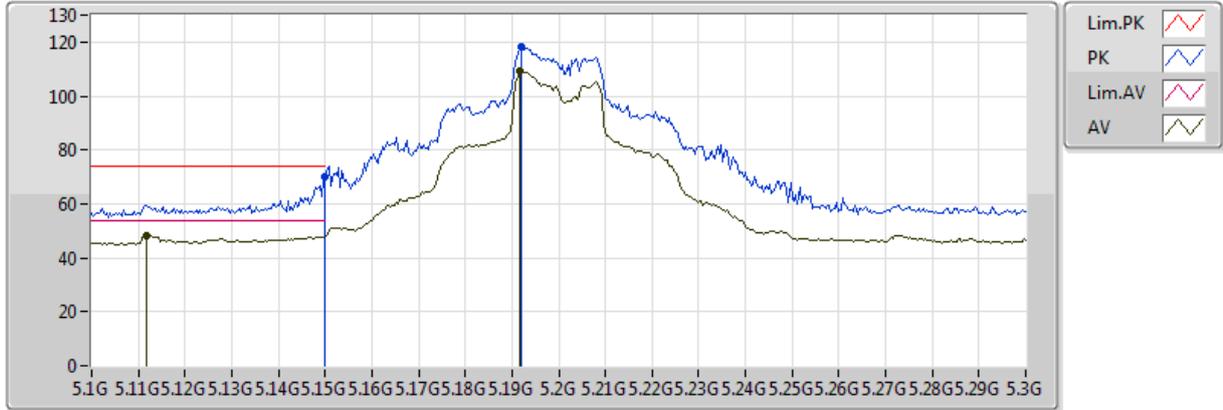
5200MHz_TX

20171124
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1116G	48.40	54.00	-5.60	5.19	3	Horizontal	96	1.33					
AV	5.1916G	109.26	Inf	-Inf	5.25	3	Horizontal	96	1.33					
PK	5.149995G	70.30	74.00	-3.70	5.22	3	Horizontal	96	1.33					
PK	5.192G	118.16	Inf	-Inf	5.25	3	Horizontal	96	1.33					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
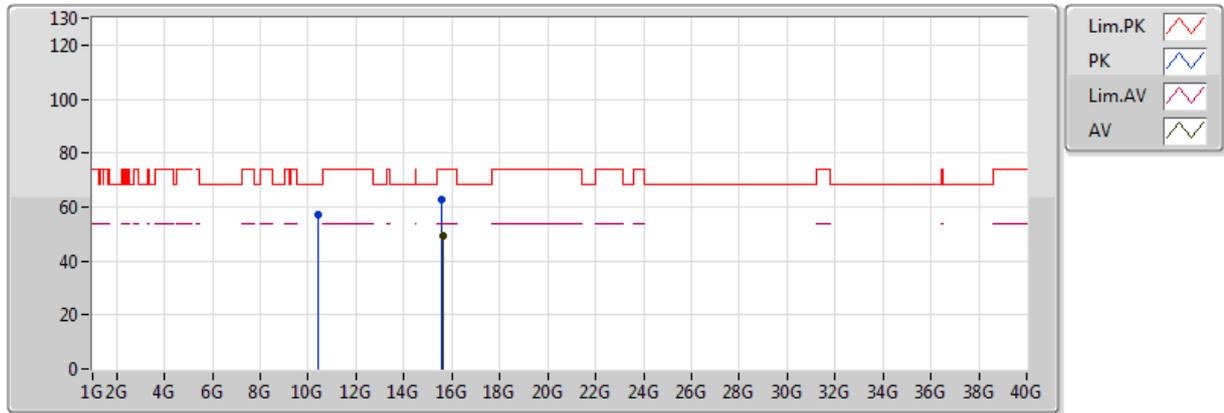
5200MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.60664G	49.29	54.00	-4.71	15.91	3	Vertical	70	1.45				
PK	10.394G	57.00	68.20	-11.20	14.51	3	Vertical	107	1.13				
PK	15.59544G	62.70	74.00	-11.30	15.94	3	Vertical	70	1.45				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
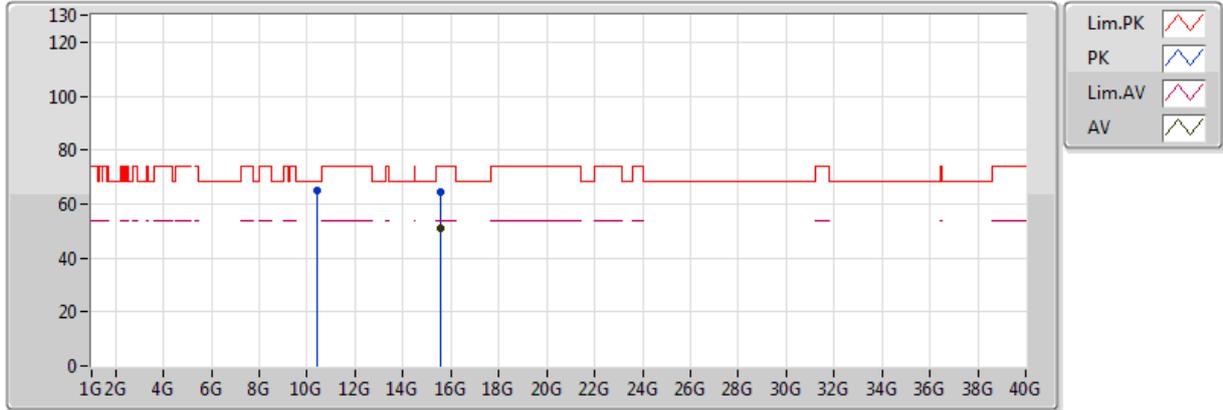
5200MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.5904G	50.72	54.00	-3.28	15.95	3	Horizontal	147	1.00				
PK	10.39672G	65.14	68.20	-3.06	14.51	3	Horizontal	282	1.52				
PK	15.58664G	64.30	74.00	-9.70	15.97	3	Horizontal	147	1.00				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
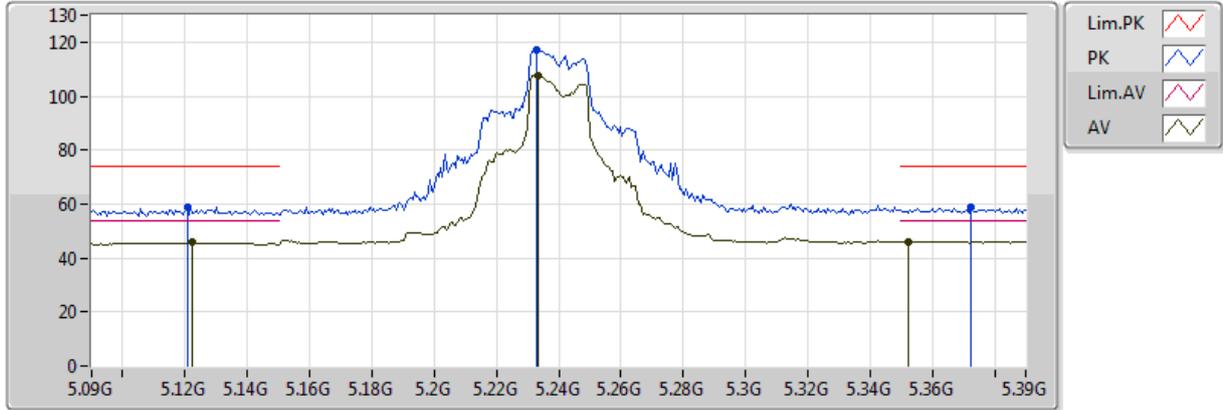
5240MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1224G	45.69	54.00	-8.31	5.20	3	Vertical	345	1.29				
AV	5.2334G	107.68	Inf	-Inf	5.39	3	Vertical	345	1.29				
AV	5.3522G	46.06	54.00	-7.94	5.83	3	Vertical	345	1.29				
PK	5.1206G	58.97	74.00	-15.03	5.20	3	Vertical	345	1.29				
PK	5.2328G	117.11	Inf	-Inf	5.39	3	Vertical	345	1.29				
PK	5.3726G	59.06	74.00	-14.94	5.90	3	Vertical	345	1.29				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
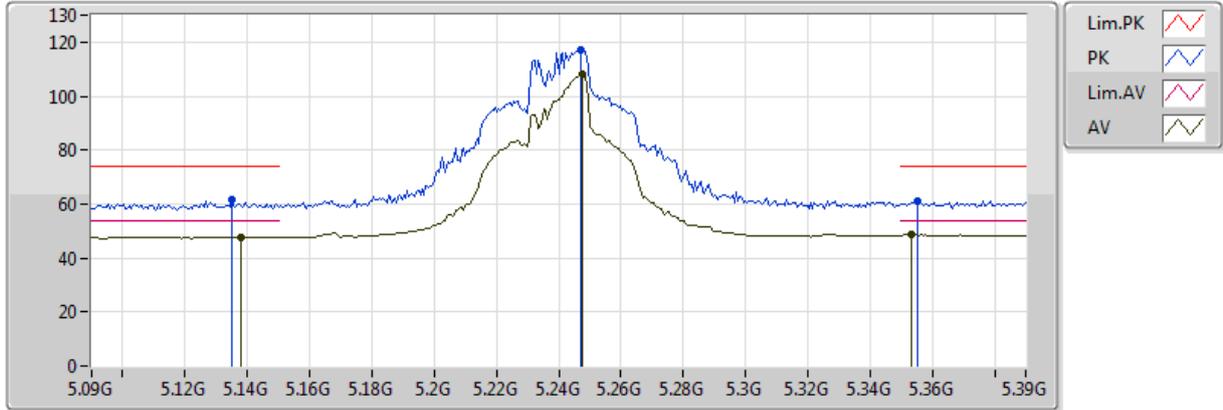
5240MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.138G	47.90	54.00	-6.10	7.66	3	Horizontal	68	1.43					
AV	5.2478G	108.28	Inf	-Inf	7.99	3	Horizontal	68	1.43					
AV	5.3534G	48.66	54.00	-5.34	8.15	3	Horizontal	68	1.43					
PK	5.135G	61.41	74.00	-12.59	7.64	3	Horizontal	68	1.43					
PK	5.2472G	117.24	Inf	-Inf	7.99	3	Horizontal	68	1.43					
PK	5.3552G	61.13	74.00	-12.87	8.16	3	Horizontal	68	1.43					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
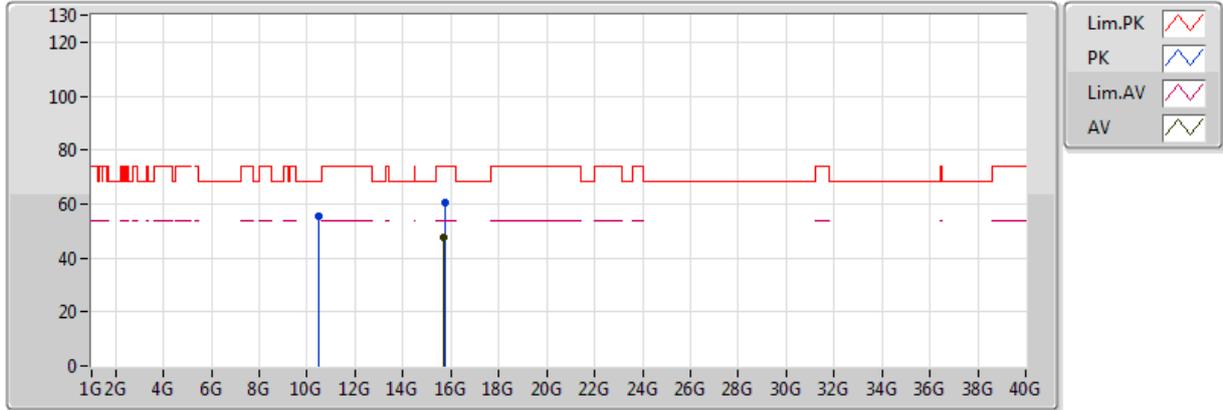
5240MHz_TX


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20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.72688G	47.65	54.00	-6.35	15.57	3	Vertical	25	1.29				
PK	10.47632G	55.25	68.20	-12.95	14.47	3	Vertical	290	2.04				
PK	15.72936G	60.57	74.00	-13.43	15.56	3	Vertical	25	1.29				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
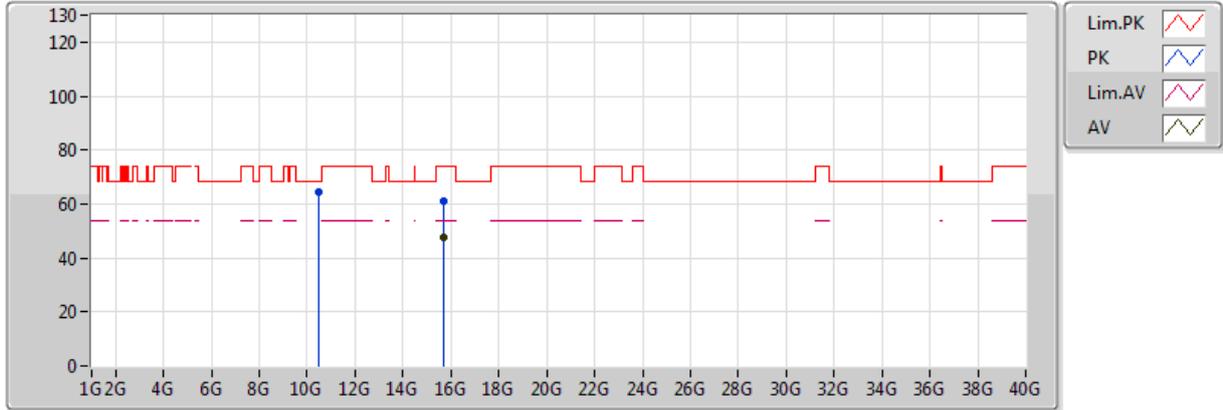
5240MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.72664G	47.43	54.00	-6.57	15.57	3	Horizontal	209	1.46					
PK	10.48016G	64.51	68.20	-3.69	14.47	3	Horizontal	285	1.41					
PK	15.71056G	60.90	74.00	-13.10	15.61	3	Horizontal	209	1.46					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
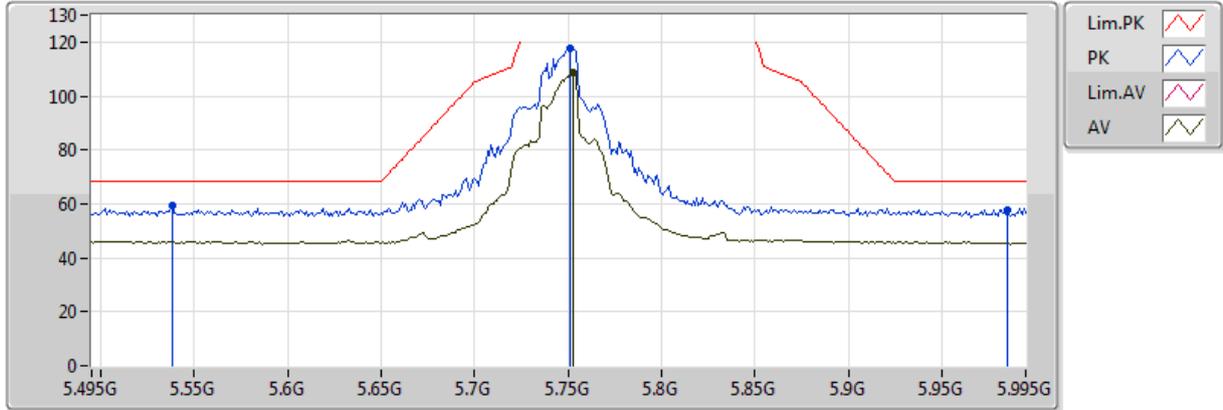
5745MHz_TX


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20171124
EUT Y_3TX
Setting 92
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.753G	108.50	Inf	-Inf	6.41	3	Vertical	280	1.54				
PK	5.538G	59.19	68.20	-9.01	6.16	3	Vertical	280	1.54				
PK	5.751G	117.65	Inf	-Inf	6.41	3	Vertical	280	1.54				
PK	5.985G	57.90	68.20	-10.30	6.37	3	Vertical	280	1.54				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
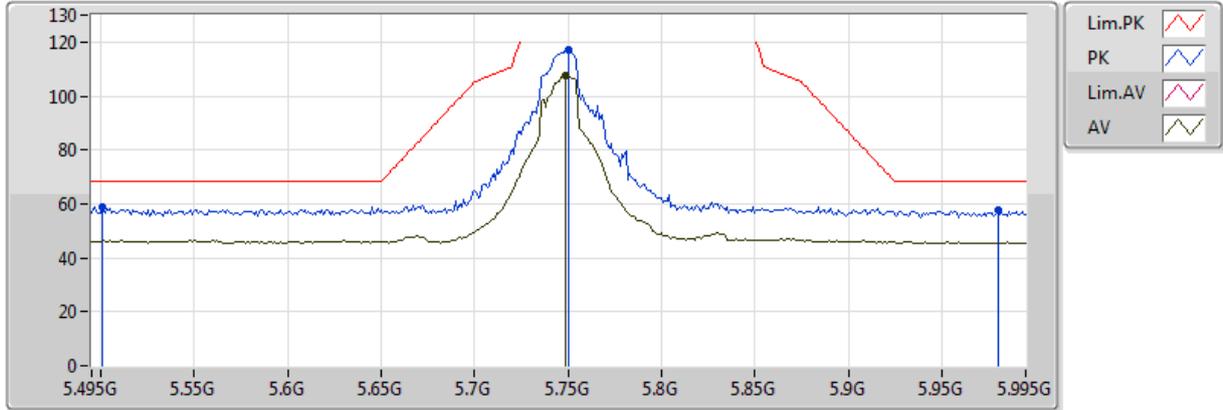
5745MHz_TX


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20171124
EUT Y_3TX
Setting 92
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.749G	107.58	Inf	-Inf	6.41	3	Horizontal	81	1.14				
PK	5.501G	58.87	68.20	-9.33	6.16	3	Horizontal	81	1.14				
PK	5.75G	117.15	Inf	-Inf	6.41	3	Horizontal	81	1.14				
PK	5.98G	57.54	68.20	-10.66	6.37	3	Horizontal	81	1.14				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
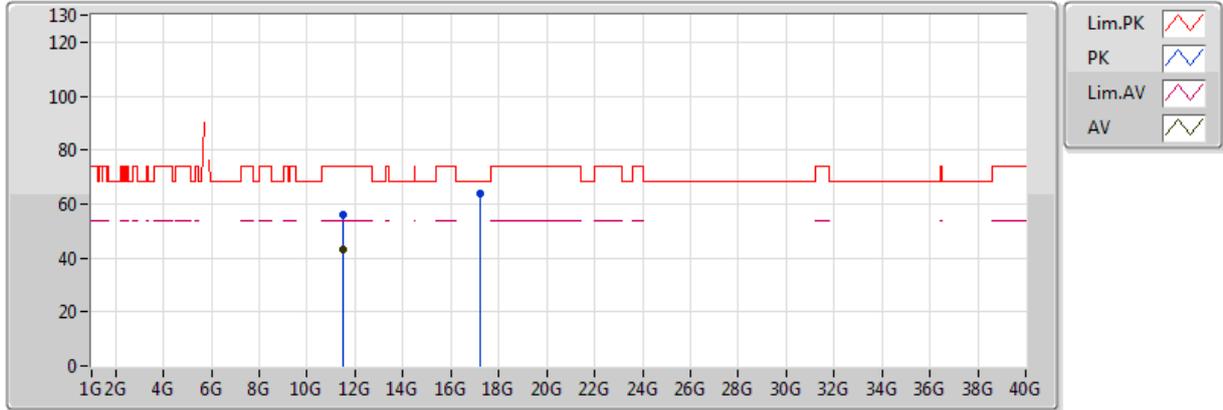
5745MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.50368G	42.87	54.00	-11.13	14.69	3	Vertical	350	1.93				
PK	11.50616G	56.07	74.00	-17.93	14.69	3	Vertical	350	1.93				
PK	17.23388G	63.92	68.20	-4.28	19.04	3	Vertical	250	1.49				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
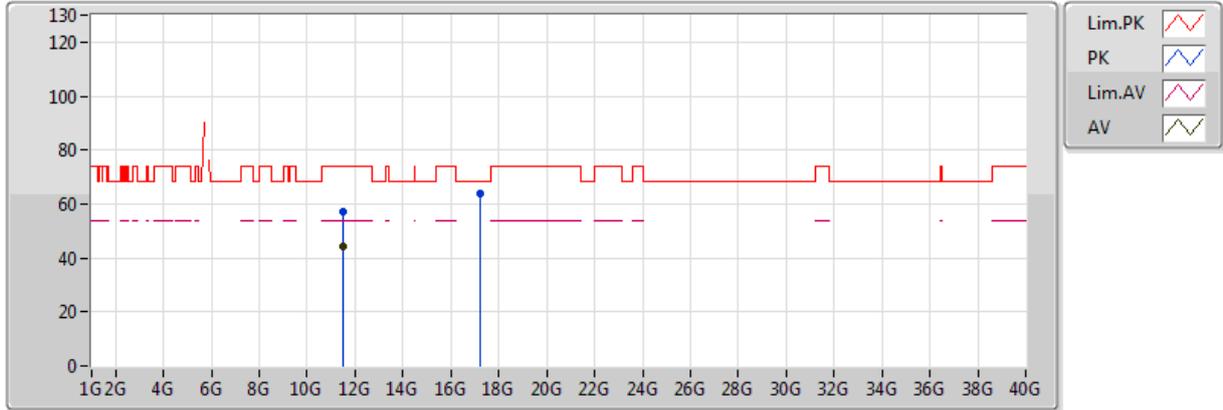
5745MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.48984G	44.26	54.00	-9.74	14.68	3	Horizontal	211	1.35					
PK	11.4864G	57.28	74.00	-16.72	14.67	3	Horizontal	211	1.35					
PK	17.22876G	63.68	68.20	-4.52	19.01	3	Horizontal	307	1.56					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
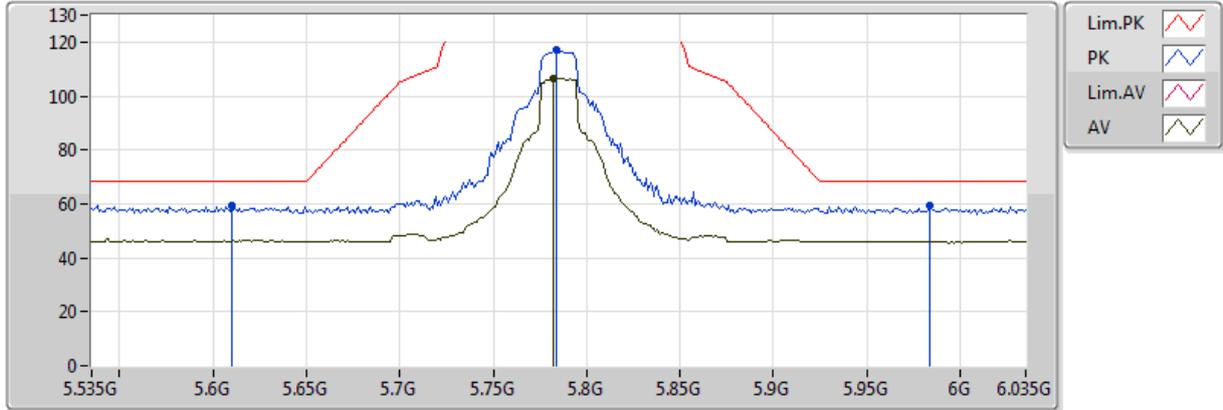
5785MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.782G	106.74	Inf	-Inf	6.46	3	Vertical	181	1.50				
PK	5.61G	59.31	68.20	-8.89	6.19	3	Vertical	181	1.50				
PK	5.784G	116.90	Inf	-Inf	6.46	3	Vertical	181	1.50				
PK	5.984G	59.40	68.20	-8.80	6.37	3	Vertical	181	1.50				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
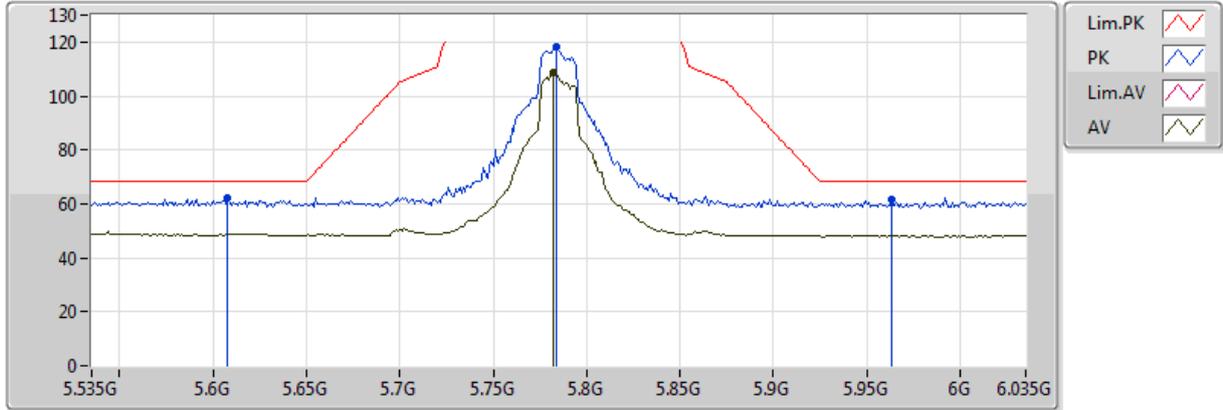
5785MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.782G	108.94	Inf	-Inf	8.78	3	Horizontal	72	1.44				
PK	5.608G	62.23	68.20	-5.97	8.34	3	Horizontal	72	1.44				
PK	5.784G	118.01	Inf	-Inf	8.78	3	Horizontal	72	1.44				
PK	5.963G	61.50	68.20	-6.70	8.71	3	Horizontal	72	1.44				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
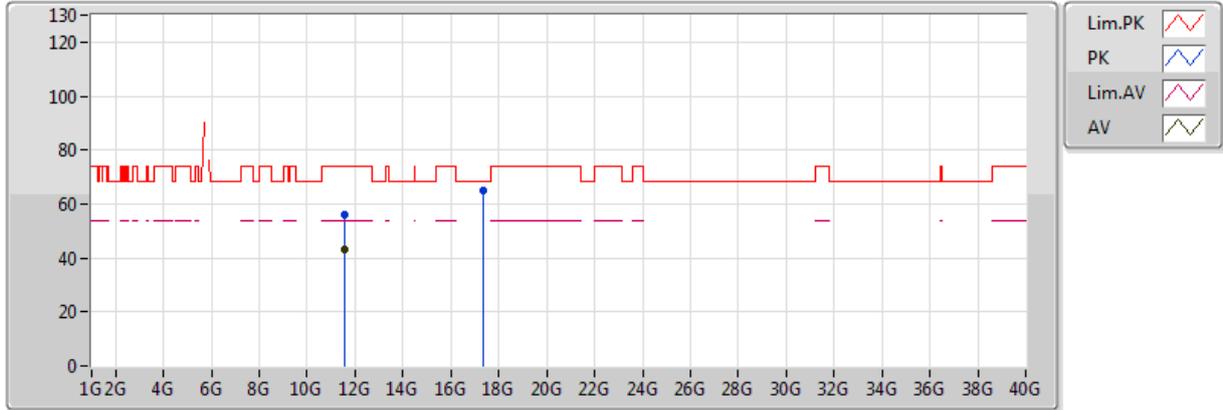
5785MHz_TX


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20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.56856G	43.26	54.00	-10.74	14.75	3	Vertical	38	2.30				
PK	11.57464G	56.29	74.00	-17.71	14.76	3	Vertical	38	2.30				
PK	17.35604G	64.73	68.20	-3.47	19.76	3	Vertical	240	1.66				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
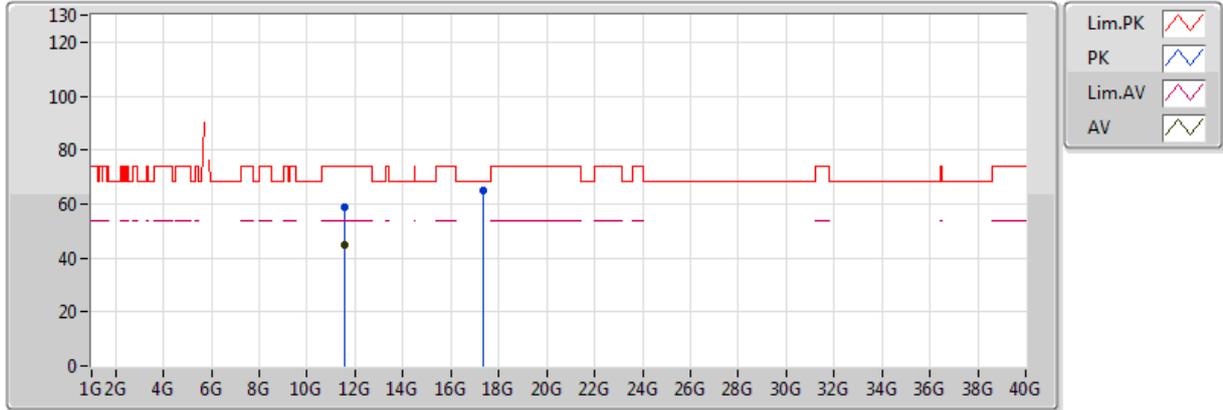
5785MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.56992G	44.89	54.00	-9.11	14.75	3	Horizontal	214	1.59					
PK	11.56936G	58.84	74.00	-15.16	14.75	3	Horizontal	214	1.59					
PK	17.3578G	64.96	68.20	-3.24	19.77	3	Horizontal	242	1.47					

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
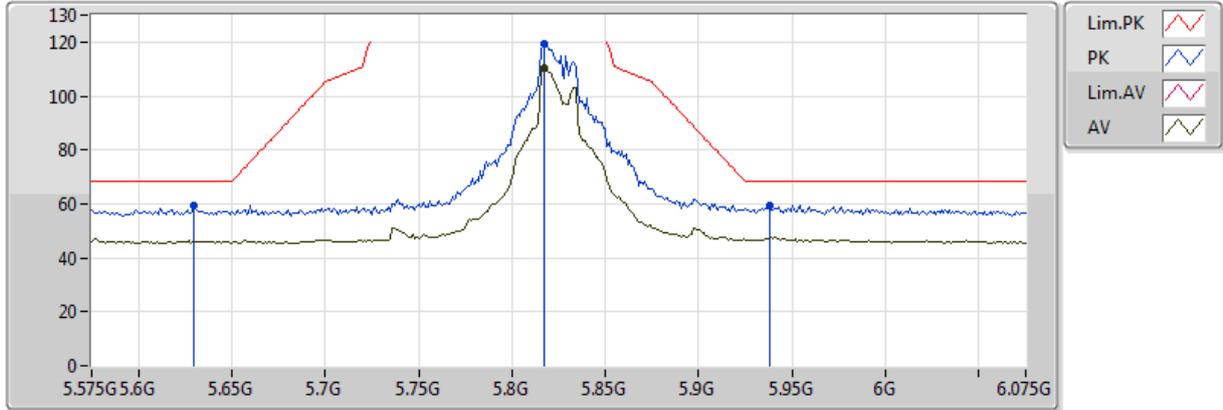
5825MHz_TX


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20171124
EUT Y_3TX
Setting 92
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.817G	110.43	Inf	-Inf	6.48	3	Vertical	232	1.50				
PK	5.63G	59.20	68.20	-9.00	6.22	3	Vertical	232	1.50				
PK	5.817G	119.34	Inf	-Inf	6.48	3	Vertical	232	1.50				
PK	5.938G	59.34	68.20	-8.86	6.40	3	Vertical	232	1.50				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
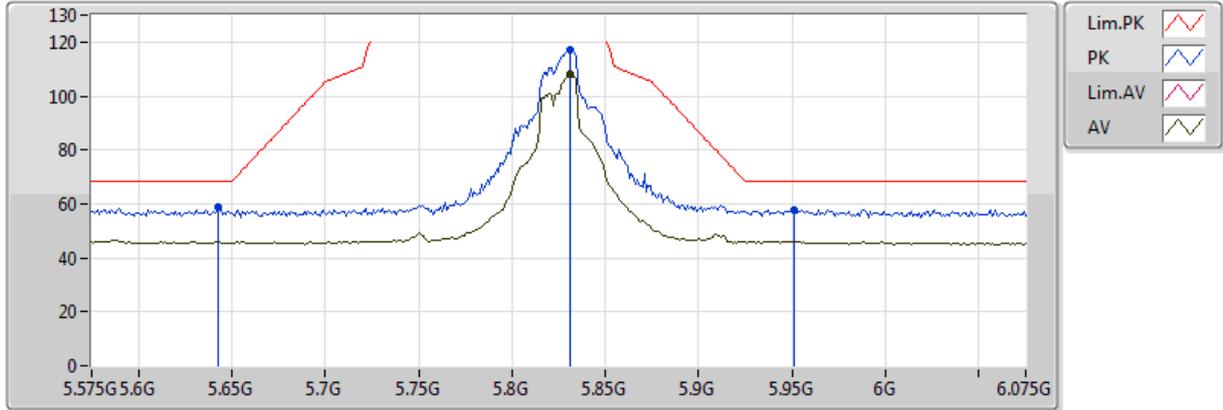
5825MHz_TX

20171124
EUT Y_3TX
Setting 92
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.831G	108.29	Inf	-Inf	6.47	3	Horizontal	82	1.69				
PK	5.643G	59.01	68.20	-9.19	6.24	3	Horizontal	82	1.69				
PK	5.831G	117.07	Inf	-Inf	6.47	3	Horizontal	82	1.69				
PK	5.951G	57.86	68.20	-10.34	6.39	3	Horizontal	82	1.69				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
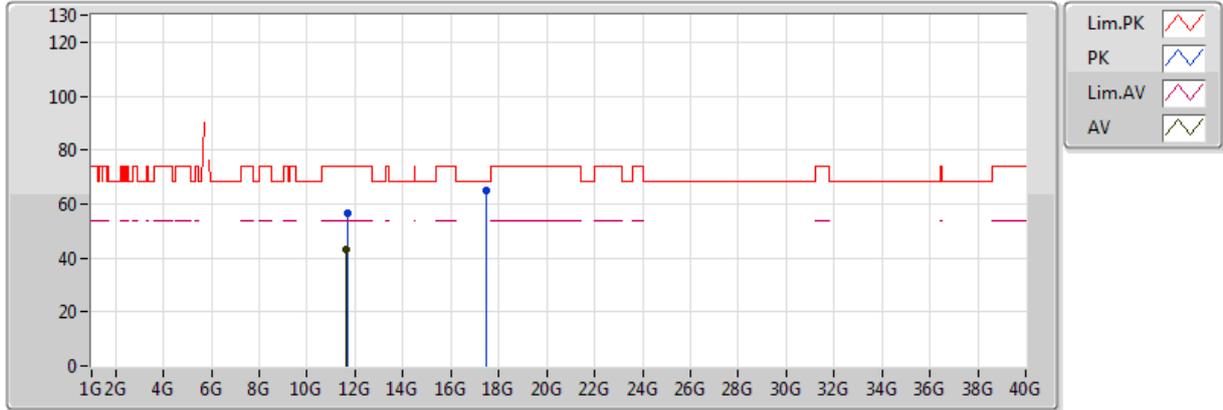
5825MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.65448G	43.17	54.00	-10.83	14.83	3	Vertical	165	1.20				
PK	11.6572G	56.34	74.00	-17.66	14.84	3	Vertical	165	1.20				
PK	17.49212G	65.19	68.20	-3.01	20.56	3	Vertical	329	1.84				

802.11ac VHT20-BF_Nss1,(MCS0)_3TX
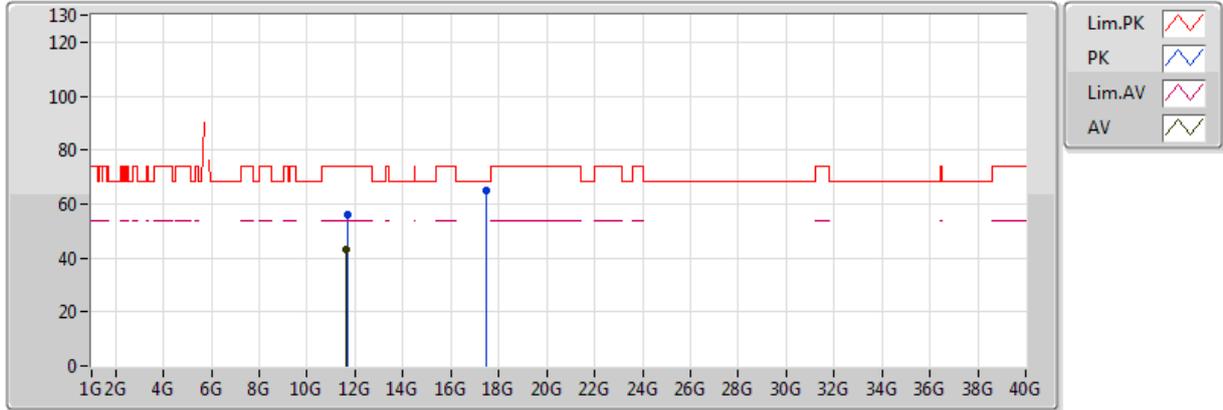
5825MHz_TX

20171226
EUT Y_3TX
Setting 92
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.6404G	43.20	54.00	-10.80	14.82	3	Horizontal	130	1.24				
PK	11.66064G	55.85	74.00	-18.15	14.84	3	Horizontal	130	1.24				
PK	17.49268G	65.14	68.20	-3.06	20.56	3	Horizontal	208	1.22				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
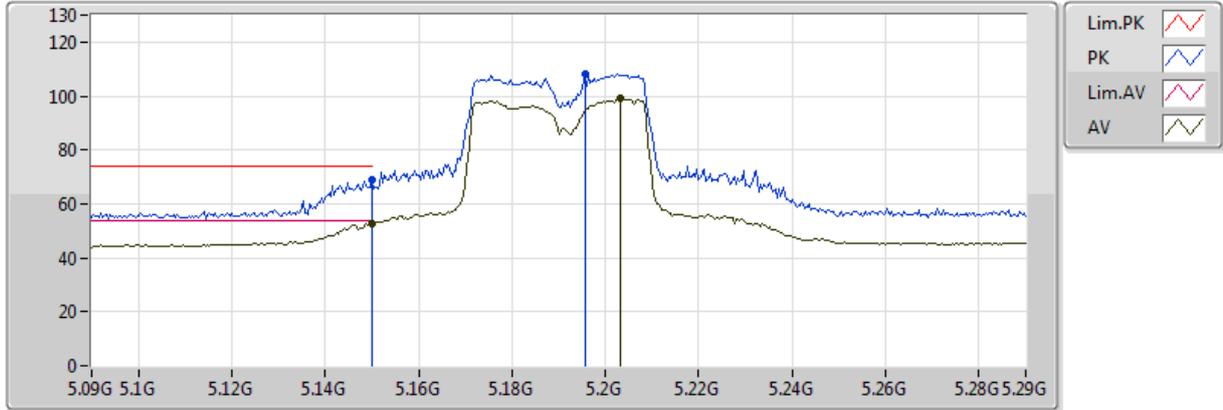
5190MHz_TX

	Lim.PK
	PK
	Lim.AV
	AV

20171124
EUT Y_3TX
Setting 66
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)			
AV	5.149995G	52.80	54.00	-1.20	5.22	3	Vertical	104	1.19			
AV	5.2032G	98.95	Inf	-Inf	5.27	3	Vertical	104	1.19			
PK	5.149995G	69.17	74.00	-4.83	5.22	3	Vertical	104	1.19			
PK	5.1956G	108.25	Inf	-Inf	5.26	3	Vertical	104	1.19			

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
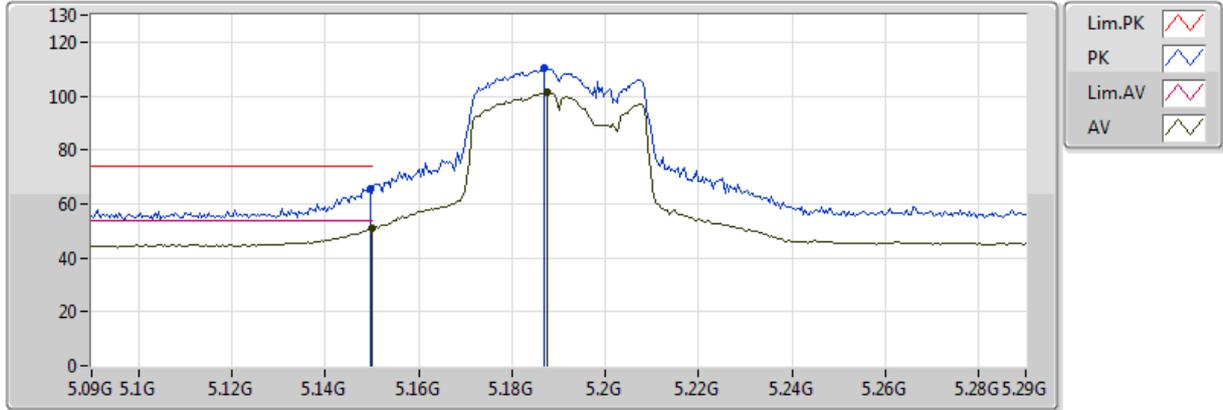
5190MHz_TX

20171124
EUT Y_3TX
Setting 66
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.149995G	50.75	54.00	-3.25	5.22	3	Horizontal	89	1.37				
AV	5.1876G	101.28	Inf	-Inf	5.25	3	Horizontal	89	1.37				
PK	5.1496G	65.62	74.00	-8.38	5.22	3	Horizontal	89	1.37				
PK	5.1868G	110.33	Inf	-Inf	5.25	3	Horizontal	89	1.37				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
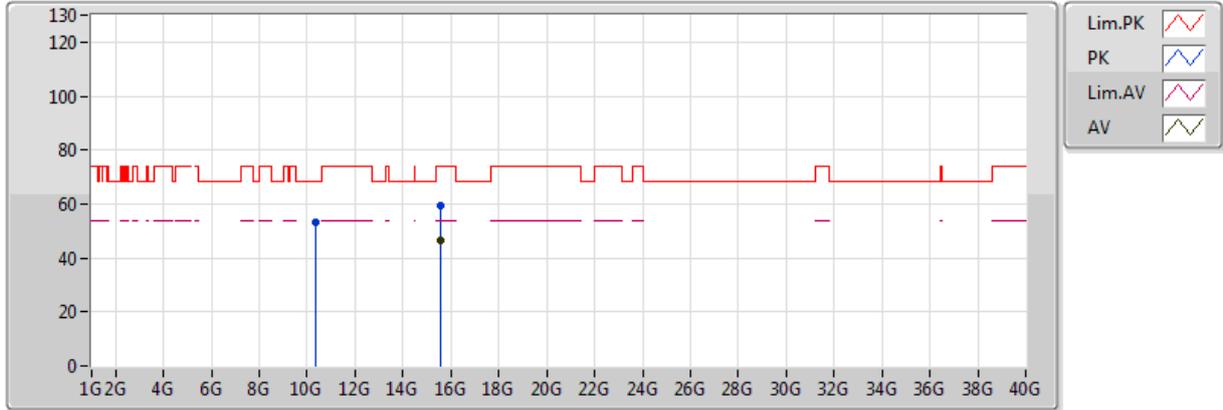
5190MHz_TX


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20171226
EUT Y_3TX
Setting 66
03-Z-1
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.57704G	46.36	54.00	-7.64	15.41	3	Vertical	70	1.94				
PK	10.36024G	53.49	68.20	-14.71	12.75	3	Vertical	104	1.66				
PK	15.57536G	59.61	74.00	-14.39	15.41	3	Vertical	70	1.94				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
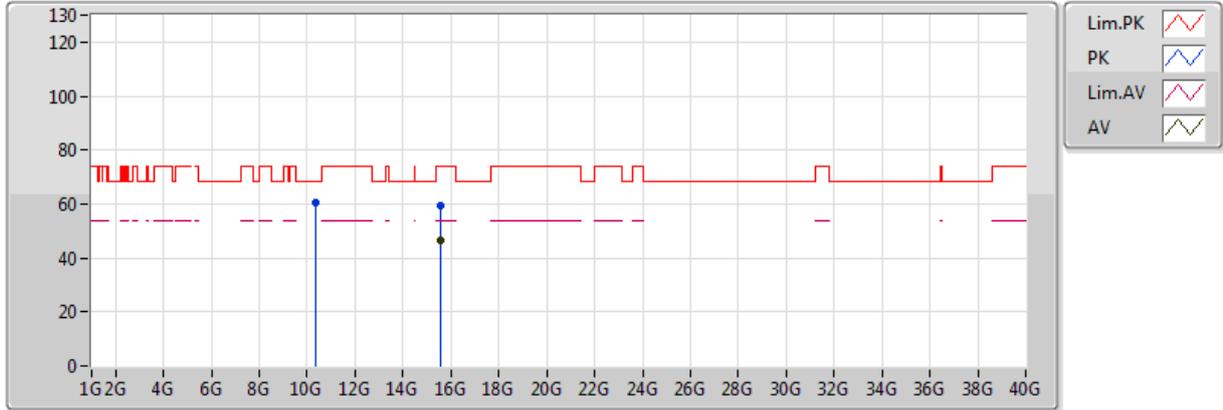
5190MHz_TX

20171226
EUT Y_3TX
Setting 66
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.5612G	46.39	54.00	-7.61	15.56	3	Horizontal	133	2.38				
PK	10.37984G	60.32	68.20	-7.88	14.02	3	Horizontal	167	1.84				
PK	15.5592G	59.53	74.00	-14.47	15.56	3	Horizontal	133	2.38				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
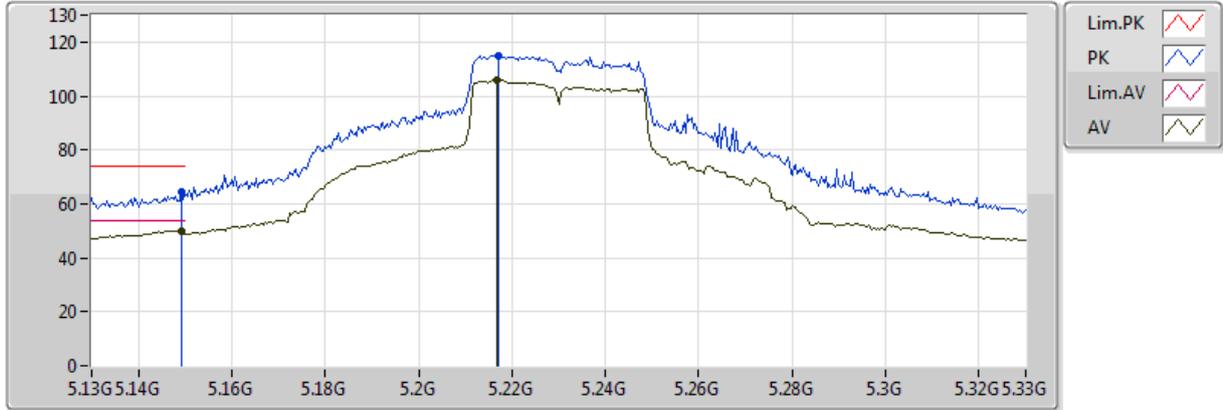
5230MHz_TX

20171124
EUT Y_3TX
Setting 88
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	5.1492G	50.06	54.00	-3.94	5.22	3	Vertical	31	1.41					
AV	5.2168G	106.11	Inf	-Inf	5.33	3	Vertical	31	1.41					
PK	5.1492G	64.39	74.00	-9.61	5.22	3	Vertical	31	1.41					
PK	5.2172G	114.86	Inf	-Inf	5.33	3	Vertical	31	1.41					

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
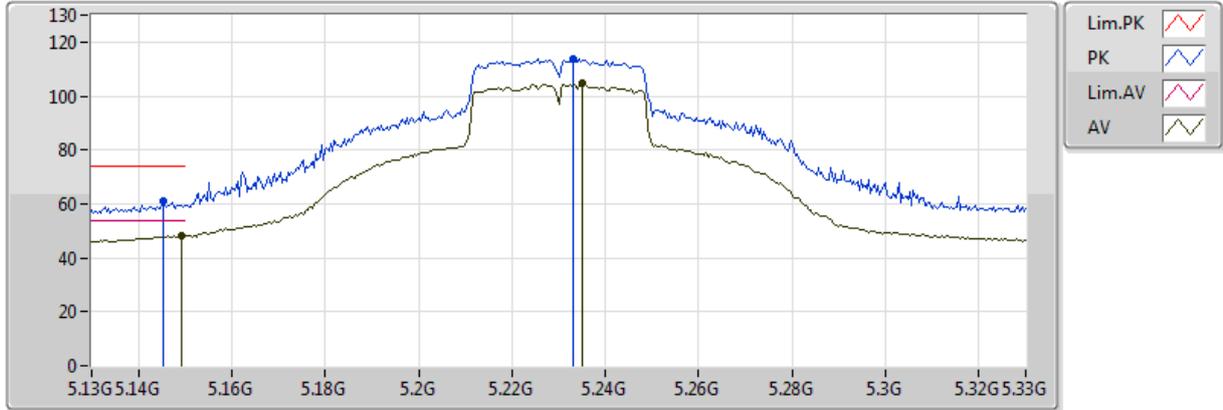
5230MHz_TX

Lim.PK	
PK	
Lim.AV	
AV	

20171124
EUT Y_3TX
Setting 88
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.1492G	48.18	54.00	-5.82	5.22	3	Horizontal	92	1.35				
AV	5.2352G	104.75	Inf	-Inf	5.40	3	Horizontal	92	1.35				
PK	5.1452G	60.80	74.00	-13.20	5.22	3	Horizontal	92	1.35				
PK	5.2332G	114.00	Inf	-Inf	5.39	3	Horizontal	92	1.35				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
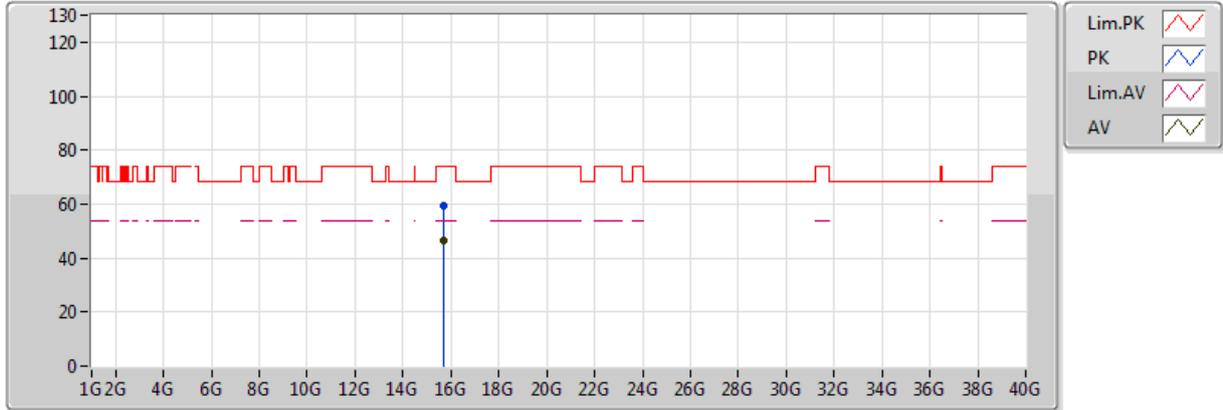
5230MHz_TX

20171226
EUT Y_3TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	15.67008G	46.37	54.00	-7.63	15.73	3	Vertical	41	1.81					
PK	15.69128G	59.14	74.00	-14.86	15.67	3	Vertical	41	1.81					

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
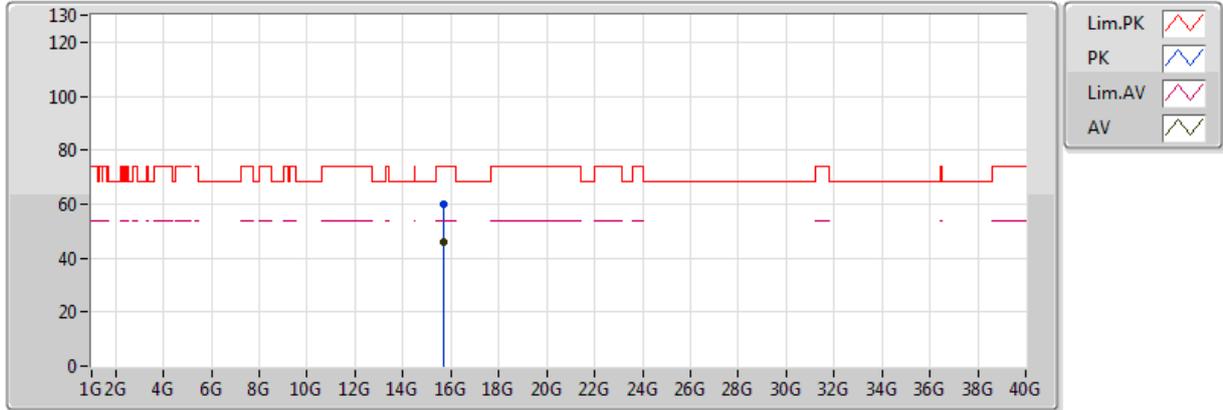
5230MHz_TX

20171226
EUT Y_3TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.67512G	46.05	54.00	-7.95	15.71	3	Horizontal	193	1.11				
PK	15.67008G	60.16	74.00	-13.84	15.73	3	Horizontal	193	1.11				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
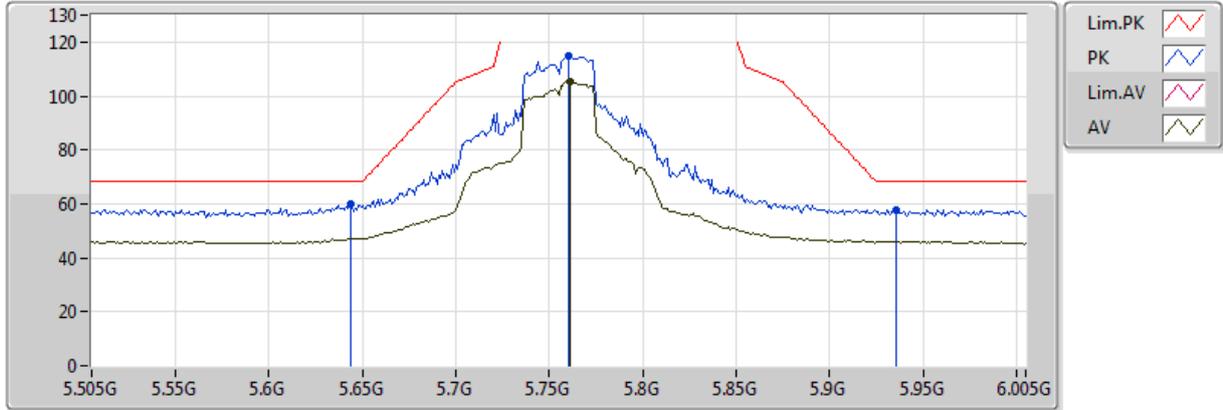
5755MHz_TX

20171124
EUT Y_3TX
Setting 88
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.761G	105.41	Inf	-Inf	6.43	3	Vertical	357	1.35				
PK	5.644G	59.87	68.20	-8.33	6.24	3	Vertical	357	1.35				
PK	5.76G	114.92	Inf	-Inf	6.43	3	Vertical	357	1.35				
PK	5.936G	57.78	68.20	-10.42	6.40	3	Vertical	357	1.35				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
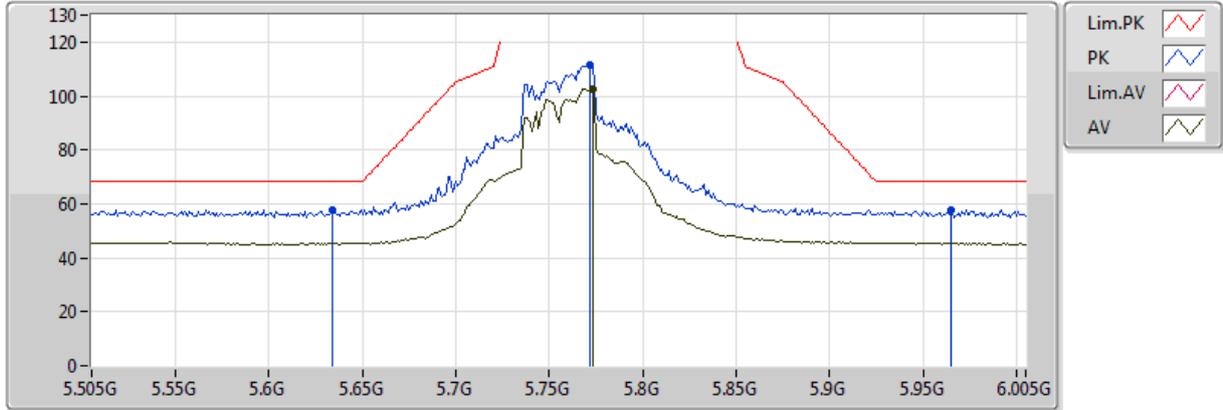
5755MHz_TX


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20171124
EUT Y_3TX
Setting 88
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.773G	102.58	Inf	-Inf	6.45	3	Horizontal	46	1.41				
PK	5.634G	57.68	68.20	-10.52	6.22	3	Horizontal	46	1.41				
PK	5.772G	111.25	Inf	-Inf	6.45	3	Horizontal	46	1.41				
PK	5.965G	57.92	68.20	-10.28	6.38	3	Horizontal	46	1.41				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
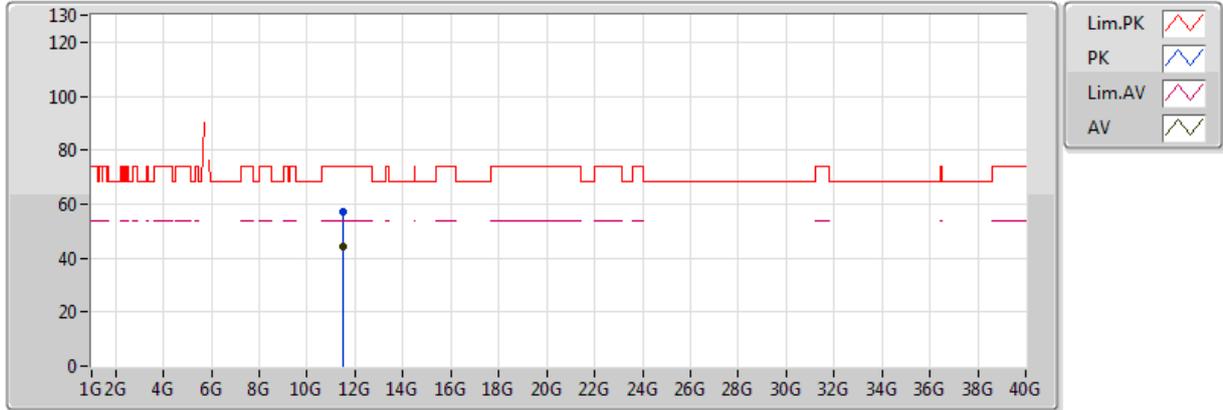
5755MHz_TX

20171226
EUT Y_3TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.49144G	44.14	54.00	-9.86	14.68	3	Vertical	272	1.46				
PK	11.5224G	57.13	74.00	-16.87	14.71	3	Vertical	272	1.46				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
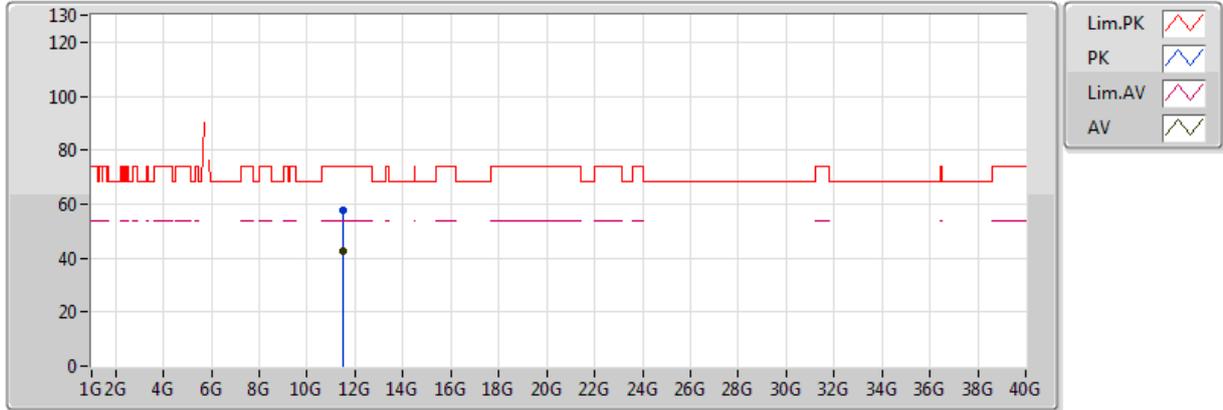
5755MHz_TX

20171226
EUT Y_3TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.49008G	42.60	54.00	-11.40	13.45	3	Horizontal	326	1.50					
PK	11.51G	57.59	74.00	-16.41	13.46	3	Horizontal	326	1.50					

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
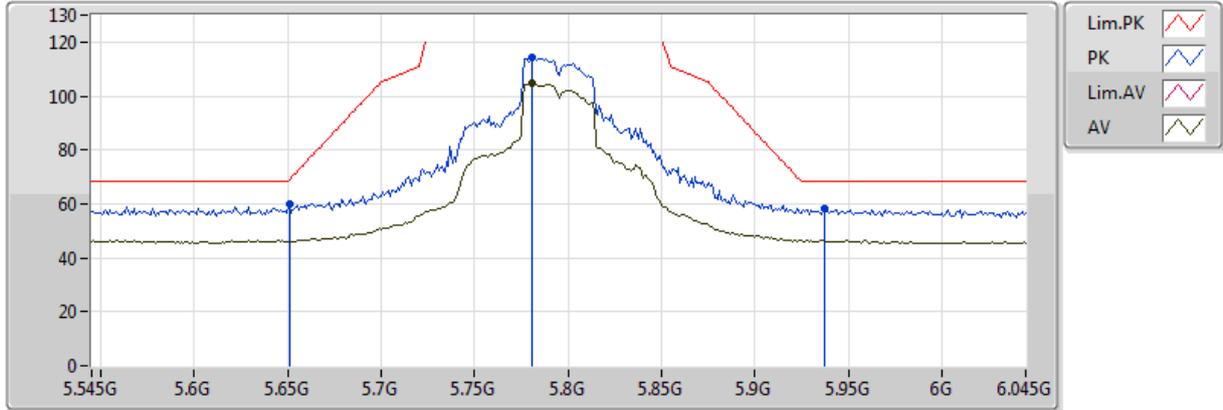
5795MHz_TX


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20171124
EUT Y_3TX
Setting 88
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.781G	104.54	Inf	-Inf	6.46	3	Vertical	27	1.44				
PK	5.651G	59.75	68.94	-9.19	6.25	3	Vertical	27	1.44				
PK	5.781G	114.24	Inf	-Inf	6.46	3	Vertical	27	1.44				
PK	5.937G	58.02	68.20	-10.18	6.40	3	Vertical	27	1.44				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
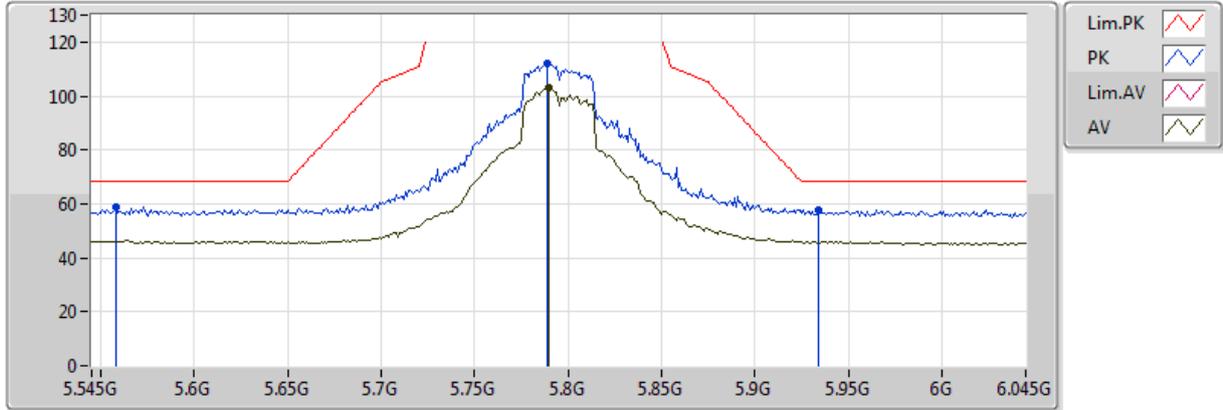
5795MHz_TX

20171124
EUT Y_3TX
Setting 88
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.79G	103.24	Inf	-Inf	6.47	3	Horizontal	77	2.03				
PK	5.558G	58.90	68.20	-9.30	6.17	3	Horizontal	77	2.03				
PK	5.789G	112.25	Inf	-Inf	6.47	3	Horizontal	77	2.03				
PK	5.934G	57.66	68.20	-10.54	6.40	3	Horizontal	77	2.03				

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
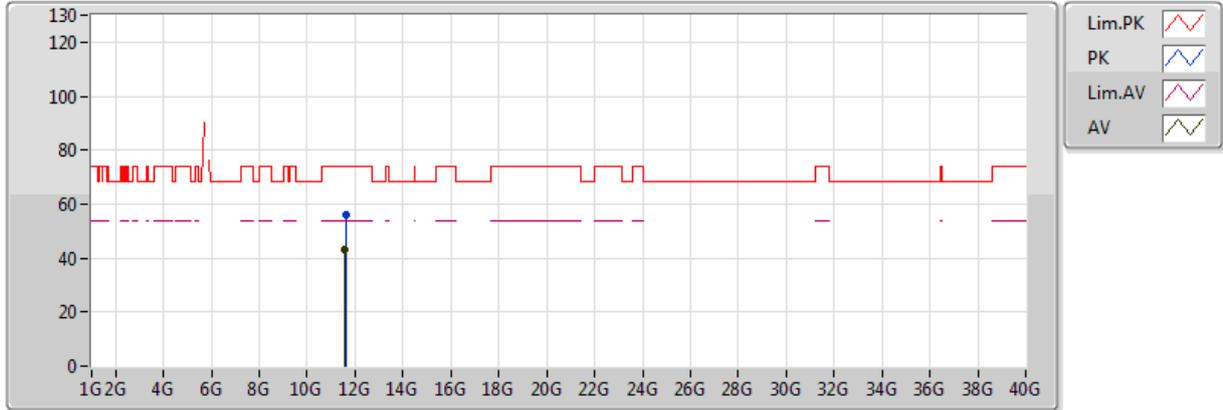
5795MHz_TX


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20171226
EUT Y_3TX
Setting 88
03-Z-1
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.58984G	43.05	54.00	-10.95	13.52	3	Vertical	43	1.35					
PK	11.59376G	55.81	74.00	-18.19	13.52	3	Vertical	43	1.35					

802.11ac VHT40-BF_Nss1,(MCS0)_3TX
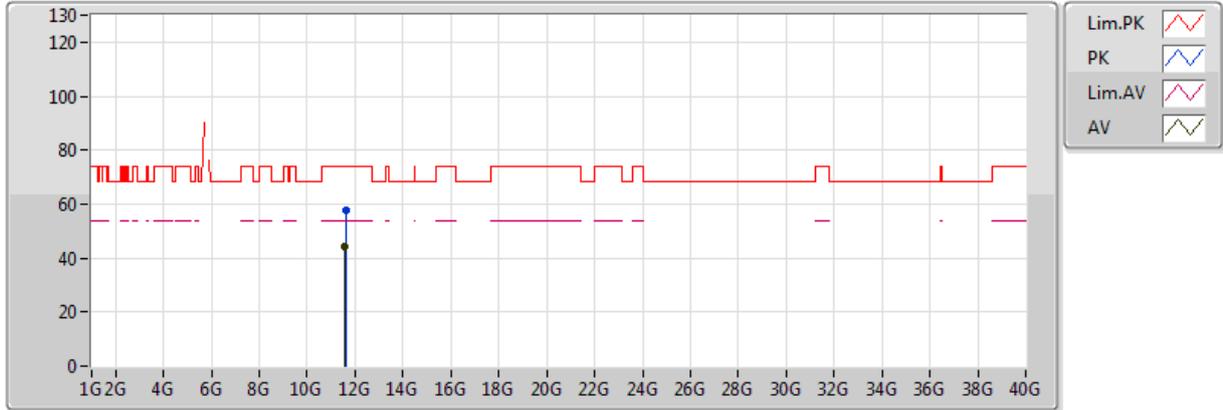
5795MHz_TX

20171226
EUT Y_3TX
Setting 88
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	11.59G	44.27	54.00	-9.73	14.77	3	Horizontal	117	1.41				
PK	11.59368G	57.78	74.00	-16.22	14.78	3	Horizontal	117	1.41				

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
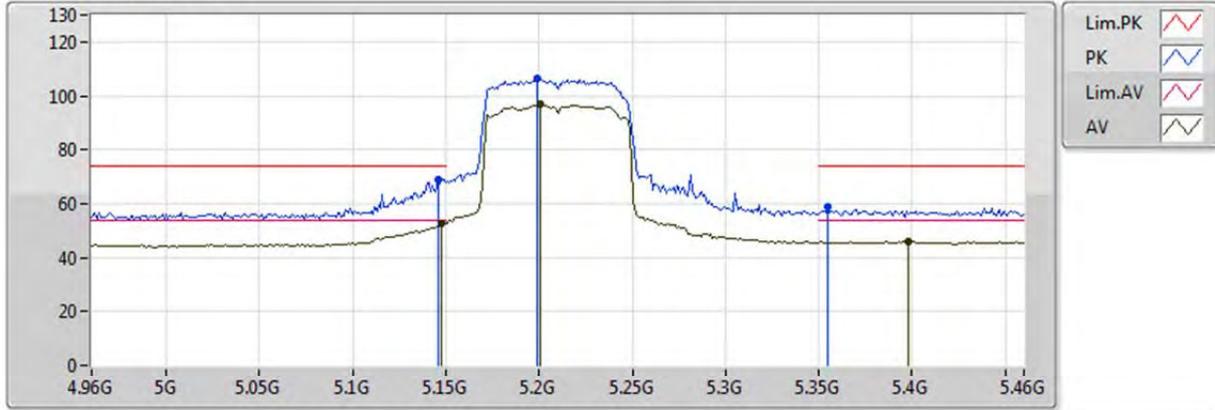
5210MHz_TX


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20171124
EUT Y_3TX
Setting 66
03-R-5-10
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.148G	52.73	54.00	-1.27	5.22	3	Vertical	239	2.01
AV	5.201G	96.68	Inf	-Inf	5.26	3	Vertical	239	2.01
AV	5.398G	45.87	54.00	-8.13	5.98	3	Vertical	239	2.01
PK	5.146G	68.71	74.00	-5.29	5.22	3	Vertical	239	2.01
PK	5.199G	106.29	Inf	-Inf	5.26	3	Vertical	239	2.01
PK	5.355G	58.90	74.00	-15.10	5.84	3	Vertical	239	2.01

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
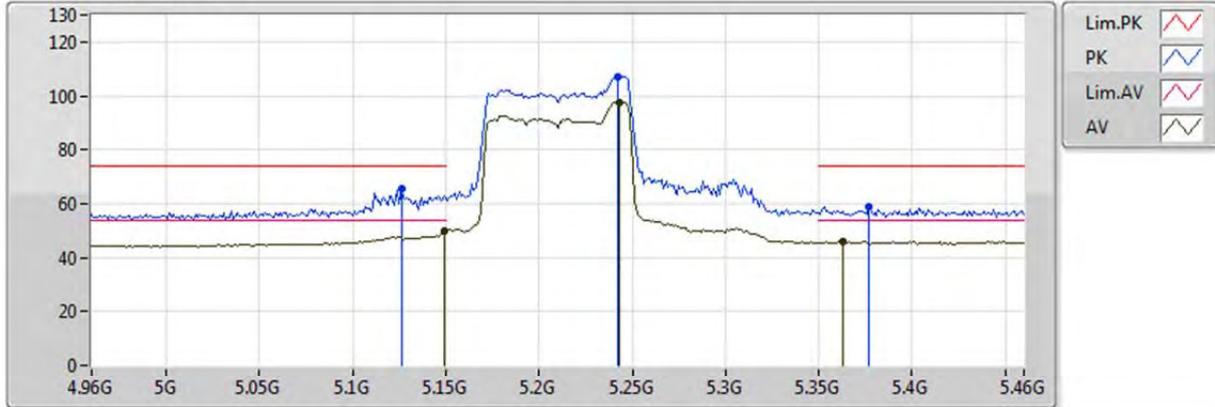
5210MHz_TX

20171124
EUT Y_3TX
Setting 66
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.149G	49.76	54.00	-4.24	5.22	3	Horizontal	86	2.63
AV	5.243G	97.66	Inf	-Inf	5.43	3	Horizontal	86	2.63
AV	5.363G	45.91	54.00	-8.09	5.86	3	Horizontal	86	2.63
PK	5.126G	65.76	74.00	-8.24	5.20	3	Horizontal	86	2.63
PK	5.242G	107.06	Inf	-Inf	5.42	3	Horizontal	86	2.63
PK	5.377G	58.99	74.00	-15.01	5.91	3	Horizontal	86	2.63

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
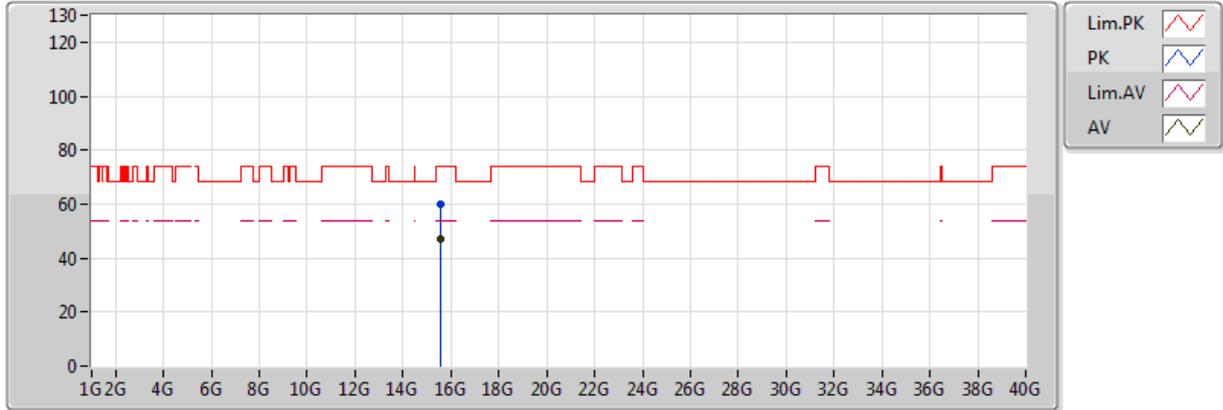
5210MHz_TX

20171226
EUT Y_3TX
Setting 66
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.5908G	47.01	54.00	-6.99	15.95	3	Vertical	224	1.38				
PK	15.5924G	59.88	74.00	-14.12	15.95	3	Vertical	224	1.38				

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
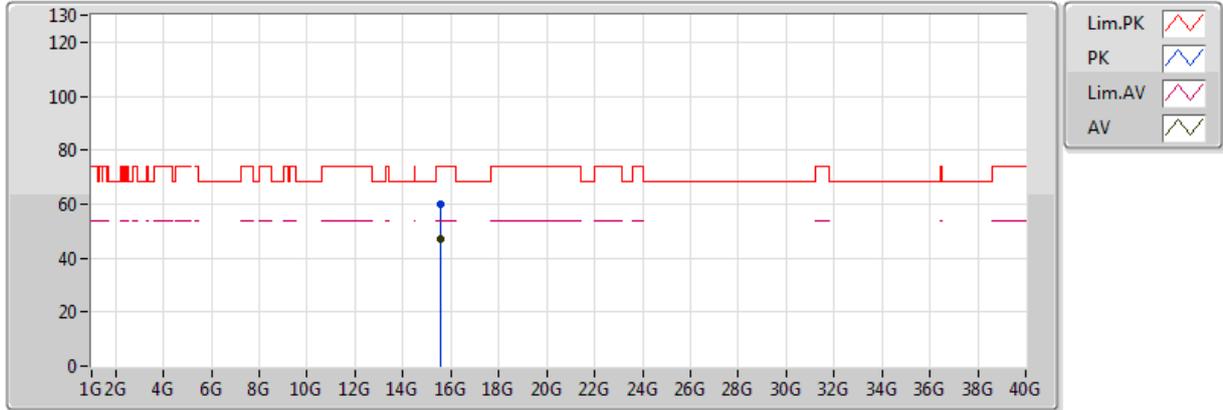
5210MHz_TX

20171226
EUT Y_3TX
Setting 66
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	15.59048G	47.16	54.00	-6.84	15.95	3	Horizontal	28	1.60				
PK	15.59128G	60.06	74.00	-13.94	15.95	3	Horizontal	28	1.60				

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
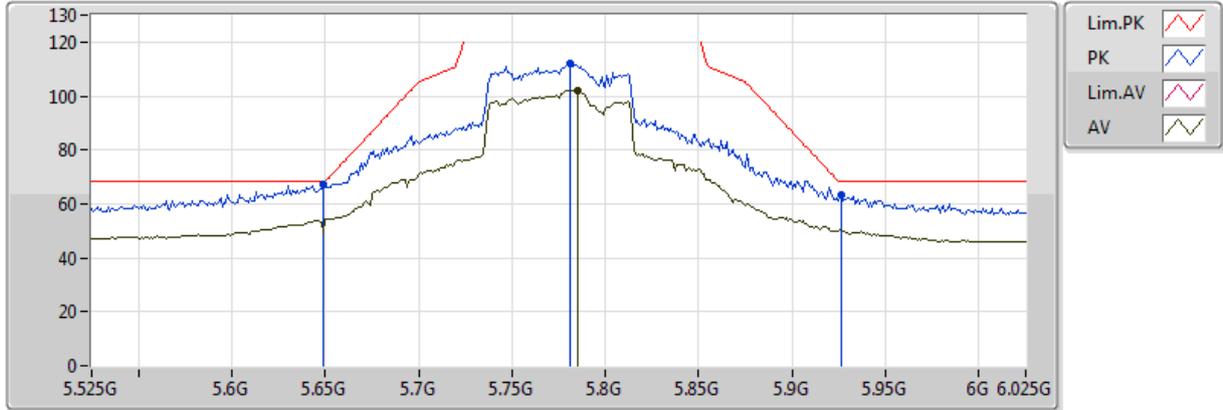
5775MHz_TX

20171124
EUT Y_3TX
Setting 84
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.785G	102.17	Inf	-Inf	6.47	3	Vertical	247	1.33				
PK	5.649G	67.15	68.20	-1.05	6.25	3	Vertical	247	1.33				
PK	5.781G	111.95	Inf	-Inf	6.46	3	Vertical	247	1.33				
PK	5.926G	63.52	68.20	-4.68	6.40	3	Vertical	247	1.33				

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
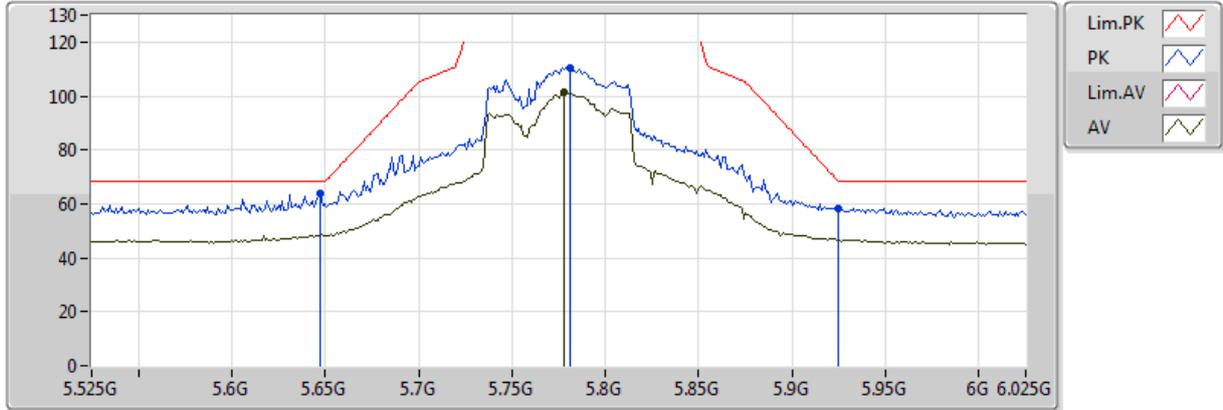
5775MHz_TX

20171124
EUT Y_3TX
Setting 84
03-R-5-10
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)				
AV	5.778G	101.43	Inf	-Inf	6.45	3	Horizontal	79	1.47				
PK	5.647G	63.81	68.20	-4.39	6.25	3	Horizontal	79	1.47				
PK	5.781G	110.56	Inf	-Inf	6.46	3	Horizontal	79	1.47				
PK	5.925G	58.32	68.20	-9.88	6.41	3	Horizontal	79	1.47				

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
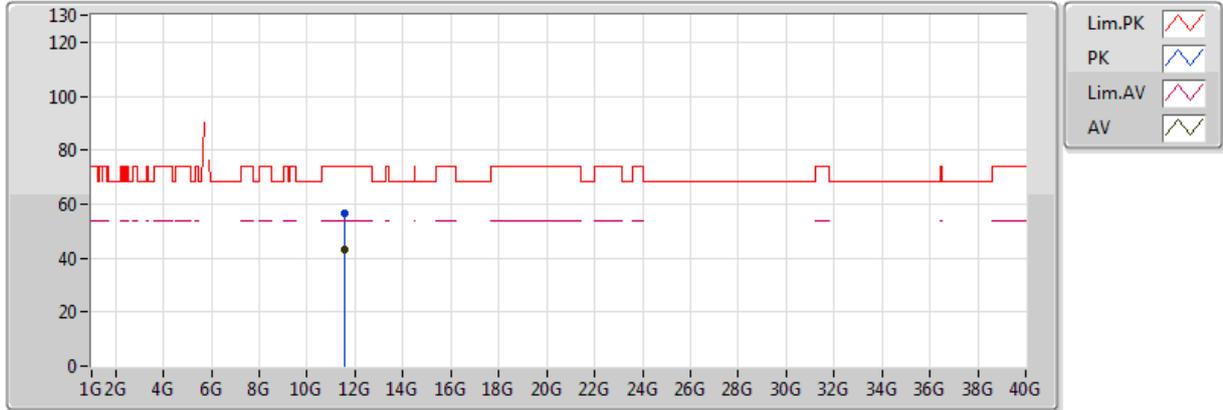
5775MHz_TX


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20171226
EUT Y_3TX
Setting 84
03-Z-1
FSP
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.55G	43.21	54.00	-10.79	14.73	3	Vertical	139	2.40					
PK	11.56616G	56.55	74.00	-17.45	14.75	3	Vertical	139	2.40					

802.11ac VHT80-BF_Nss1,(MCS0)_3TX
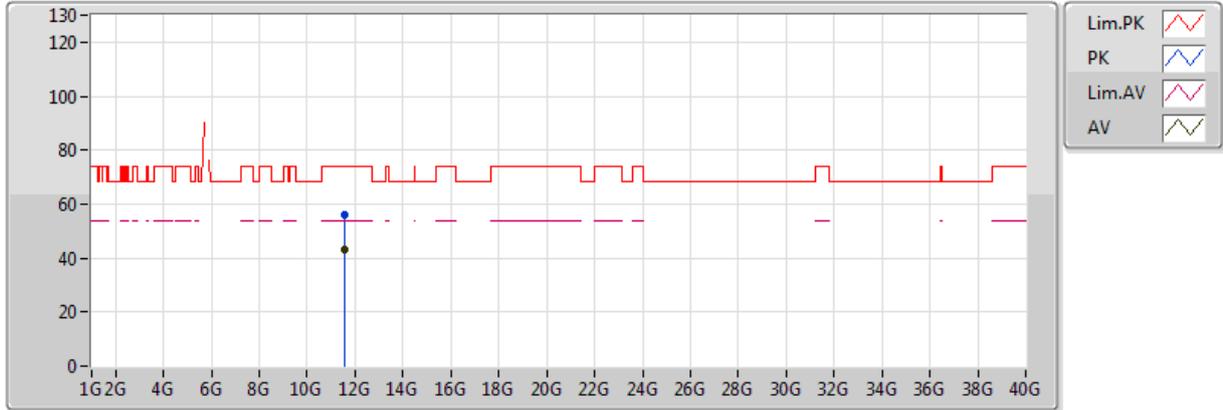
5775MHz_TX

Lim.PK	
PK	
Lim.AV	
AV	

20171226
EUT Y_3TX
Setting 84
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	11.55032G	43.26	54.00	-10.74	14.73	3	Horizontal	166	1.28					
PK	11.58856G	56.26	74.00	-17.74	14.77	3	Horizontal	166	1.28					

Mode: 20 MHz / Ant. 2
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9580	5199.9572	5199.9566	5199.9562
110.00	5199.9574	5199.9566	5199.9560	5199.9556
93.50	5199.9569	5199.9563	5199.9562	5199.9561
Max. Deviation (MHz)	**0.0431**	**0.0437**	**0.0440**	**0.0444**
Max. Deviation (ppm)	**8.29**	**8.40**	**8.46**	**8.54**
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9550	5199.9549	5199.9541	5199.9535
10	5199.9560	5199.9552	5199.9542	5199.9537
20	5199.9574	5199.9568	5199.9562	5199.9553
30	5199.9687	5199.9686	5199.9682	5199.9679
40	5199.9707	5199.9702	5199.9694	5199.9684
Max. Deviation (MHz)	**0.0450**	**0.0451**	**0.0459**	**0.0465**
Max. Deviation (ppm)	**8.65**	**8.67**	**8.83**	**8.94**
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9582	5784.9574	5784.9571	5784.9568
110.00	5784.9574	5784.9567	5784.9561	5784.9557
93.50	5784.9566	5784.9556	5784.9552	5784.9550
Max. Deviation (MHz)	**0.0434**	**0.0444**	**0.0448**	**0.0450**
Max. Deviation (ppm)	**7.50**	**7.68**	**7.74**	**7.78**
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9555	5784.9551	5784.9541	5784.9532
10	5784.9559	5784.9557	5784.9551	5784.9544
20	5784.9574	5784.9573	5784.9566	5784.9561
30	5784.9687	5784.9677	5784.9671	5784.9662
40	5784.9698	5784.9691	5784.9683	5784.9674
Max. Deviation (MHz)	**0.0445**	**0.0449**	**0.0459**	**0.0468**
Max. Deviation (ppm)	**7.69**	**7.76**	**7.93**	**8.09**
Result	Pass			

Mode: 40 MHz / Ant. 2
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9575	5189.9570	5189.9568	5189.9561
110.00	5189.9574	5189.9571	5189.9566	5189.9564
93.50	5189.9568	5189.9567	5189.9564	5189.9563
Max. Deviation (MHz)	**0.0432**	**0.0433**	**0.0436**	**0.0439**
Max. Deviation (ppm)	**8.32**	**8.34**	**8.40**	**8.46**
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9561	5189.9554	5189.9547	5189.9539
10	5189.9564	5189.9558	5189.9554	5189.9546
20	5189.9574	5189.9564	5189.9563	5189.9554
30	5189.9687	5189.9682	5189.9679	5189.9672
40	5189.9693	5189.9690	5189.9687	5189.9685
Max. Deviation (MHz)	**0.0439**	**0.0446**	**0.0453**	**0.0461**
Max. Deviation (ppm)	**8.46**	**8.59**	**8.73**	**8.88**
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9577	5754.9571	5754.9565	5754.9560
110.00	5754.9574	5754.9568	5754.9562	5754.9561
93.50	5754.9568	5754.9560	5754.9559	5754.9552
Max. Deviation (MHz)	**0.0432**	**0.0440**	**0.0441**	**0.0448**
Max. Deviation (ppm)	**7.51**	**7.65**	**7.66**	**7.78**
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9558	5754.9548	5754.9542	5754.9537
10	5754.9562	5754.9559	5754.9558	5754.9548
20	5754.9574	5754.9566	5754.9565	5754.9557
30	5754.9687	5754.9677	5754.9668	5754.9662
40	5754.9704	5754.9695	5754.9694	5754.9687
Max. Deviation (MHz)	**0.0442**	**0.0452**	**0.0458**	**0.0463**
Max. Deviation (ppm)	**7.68**	**7.85**	**7.96**	**8.05**
Result	Pass			

Mode: 80 MHz / Ant. 2
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9581	5209.9574	5209.9570	5209.9567
110.00	5209.9574	5209.9570	5209.9567	5209.9566
93.50	5209.9570	5209.9566	5209.9556	5209.9546
Max. Deviation (MHz)	**0.0430**	**0.0434**	**0.0444**	**0.0454**
Max. Deviation (ppm)	**8.25**	**8.33**	**8.52**	**8.71**
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9562	5209.9557	5209.9549	5209.9543
10	5209.9569	5209.9560	5209.9552	5209.9548
20	5209.9574	5209.9572	5209.9567	5209.9558
30	5209.9687	5209.9685	5209.9681	5209.9671
40	5209.9688	5209.9679	5209.9671	5209.9670
Max. Deviation (MHz)	**0.0438**	**0.0443**	**0.0451**	**0.0457**
Max. Deviation (ppm)	**8.41**	**8.50**	**8.66**	**8.77**
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9580	5774.9572	5774.9562	5774.9556
110.00	5774.9574	5774.9572	5774.9569	5774.9563
93.50	5774.9573	5774.9564	5774.9562	5774.9555
Max. Deviation (MHz)	**0.0427**	**0.0436**	**0.0438**	**0.0445**
Max. Deviation (ppm)	**7.39**	**7.55**	**7.58**	**7.71**
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9543	5774.9533	5774.9531	5774.9522
10	5774.9561	5774.9554	5774.9552	5774.9546
20	5774.9574	5774.9573	5774.9565	5774.9559
30	5774.9687	5774.9682	5774.9673	5774.9666
40	5774.9704	5774.9697	5774.9692	5774.9686
Max. Deviation (MHz)	**0.0457**	**0.0467**	**0.0469**	**0.0478**
Max. Deviation (ppm)	**7.91**	**8.09**	**8.12**	**8.28**
Result	Pass			

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

Date: 2018-01-02 Time: 10:19:26

	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	1375.00	39.60	74.00	-34.40	45.88	3.29	24.90	34.47	106	232	Peak	HORIZONTAL
2	1375.03	26.40	54.00	-27.60	32.68	3.29	24.90	34.47	106	232	Average	HORIZONTAL

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

Level (dBuV/m)   Date: 2018-01-02 Time: 10:04:42

FCC CLASS-B PK
-6dB

FCC CLASS-B AV
-6dB

	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	1374.92	40.97	74.00	-33.03	47.25	3.29	24.90	34.47	108	218	Peak	VERTICAL
2	1375.02	31.43	54.00	-22.57	37.71	3.29	24.90	34.47	108	218	Average	VERTICAL