



FCC Test Report

Equipment : AC5400 MU-MIMO Tri-Band Wi-Fi Router
Brand Name : TP-Link
Model No. : Archer C5400X
FCC ID : TE7C5400X
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central
Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen,China
Manufacturer : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central
Science and Technology Park,Shennan Rd, Nanshan,
Shenzhen,China
Function : Outdoor; Indoor; Fixed P2P
 Client

The product sample received on Mar. 14, 2017 and completely tested on Apr. 26, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Cliff Chang
SPORTON INTERNATIONAL INC.





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PHOTOGRAPHS OF EUT V01



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



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	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
2	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
3	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
4	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
5	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
6	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
7	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8
8	TP-LINK	Archer C5400X(US)1.0	Dipole	I-PEX	1.8

Note:

There are four radios, Radio 1, Radio 2, Radio 3 and Radio 4 are respectively.
 Radio 1 supports WLAN 2.4GHz function.
 Radio 2 supports WLAN 5GHz Band1 / Band2 function.
 Radio 3 supports WLAN 5GHz Band3 / Band4 function.
 Radio 4 supports Bluetooth function.

The EUT has eight antennas.

For 2.4GHz function:

Ant1 connect to port 1, Ant 2 connect to port 2, Ant 3 connect to port 3, Ant 4 connect to port 4.

For IEEE 802.11b/g/n/ac mode (4TX/4RX):

Ant 1 (Port 1), Ant 2 (Port 2), Ant 3 (Port 3) and Ant 4 (Port 4) can be used as transmitting/receiving antenna.

Ant 1 (Port 1), Ant 2 (Port 2), Ant 3 (Port 3) and Ant 4 (Port 4) could transmit/receive simultaneously.

For 5GHz (Band 1) function:

Ant 1 connect to port 1, Ant 2 connect to port 2, Ant 3 connect to port 3, Ant 4 connect to port 4.

For IEEE 802.11a/n/ac mode (4TX/4RX):

Ant 1 (Port 1), Ant 2 (Port 2), Ant 3 (Port 3) and Ant 4 (Port 4) can be used as transmitting/receiving antenna.

Ant 1 (Port 1), Ant 2 (Port 2), Ant 3 (Port 3) and Ant 4 (Port 4) could transmit/receive simultaneously.

For 5GHz (Band 4) function:

Ant 5 connect to port 1, Ant 6 connect to port 2, Ant 7 connect to port 3, Ant 8 connect to port 4.

For IEEE 802.11 a/n/ac mode (4TX/4RX):

Ant 5 (Port 1), Ant 6 (Port 2), Ant 7 (Port 3) and Ant 8 (Port 4) can be used as transmitting/receiving antenna.

Ant 5 (Port 1), Ant 6 (Port 2), Ant 7 (Port 3) and Ant 8 (Port 4) could transmit/receive simultaneously.



For Bluetooth function(1TX/1RX):

Ant 5 connect to port 1.

Only Ant 5 (Port 1) can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11a	0.987	0.057
802.11ac VHT20	0.987	0.057
802.11ac VHT20-BF	0.986	0.061
802.11ac VHT40	0.957	0.191
802.11ac VHT40-BF	0.906	0.429
802.11ac VHT80	0.895	0.482
802.11ac VHT80-BF	0.901	0.453

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter		
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming for IEEE802.11n/ac in 5GHz	<input type="checkbox"/> Without beamforming



1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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	26°C / 57%	Mar. 27, 2017~Apr. 26, 2017
Radiated	03CH01-CB	Welson Chen / Justin Lin	22°C / 54%	Mar. 25, 2017~Apr. 26, 2017
AC Conduction	CO01-CB	Rick Yeh / Ryo Fan	25°C / 60%	Apr. 22, 2017

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

1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

Band	Power Setting
802.11a_(6Mbps)_4TX	-
5180MHz	82
5200MHz	85
5240MHz	85
5745MHz	94
5785MHz	94
5825MHz	95
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	76
5200MHz	86
5240MHz	86
5745MHz	94
5785MHz	94
5825MHz	95
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	71
5230MHz	84
5755MHz	94
5795MHz	94
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	73
5775MHz	80
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5180MHz	79
5200MHz	85
5240MHz	85
5745MHz	86
5785MHz	86
5825MHz	87
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5190MHz	68
5230MHz	85
5755MHz	86
5795MHz	86
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5210MHz	68
5775MHz	77



Note:

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

2.2 The Worst Case Measurement Configuration

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
Operating Mode > 1GHz	CTX

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	Radio 1-WLAN 2.4G + Radio 2-WLAN 5G Band 1
2	Radio 3-WLAN 5G Band 4 + Radio 4-Bluetooth
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	Radio 1-WLAN 2.4G + Radio 2-WLAN 5G Band 1+ Radio 3-WLAN 5G Band 4 + Radio 4-Bluetooth
Refer to Sporton Test Report No.: FA731332 for Co-location RF Exposure Evaluation.	

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

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 XP were executed.

The program was executed as follows:

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

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories					
No.	Equipment Name	Brand Name	Model Name	Rating	DC Power Line
1	Adapter	HuntKey	HKA06012050-7G	Input: 100-240V-1.5A 50/60Hz Output: 12.0V, 5A	Non-Shielded, 1.2m
Other					
Power Cable*1, Non Shielded, 1.5m					



2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*5	DELL	E6430	DoC
2	iPad	Apple	A1430	DoC
3	Flash disk3.0	ADATA	C103	DoC
4	Flash disk3.0	Transcend	JetFlash-700	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	NB*3	Apple	Mac Book	DoC
3	iPad	Apple	A1430	DoC
4	Flash disk3.0*2	Silicon Power	B06	DoC

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

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

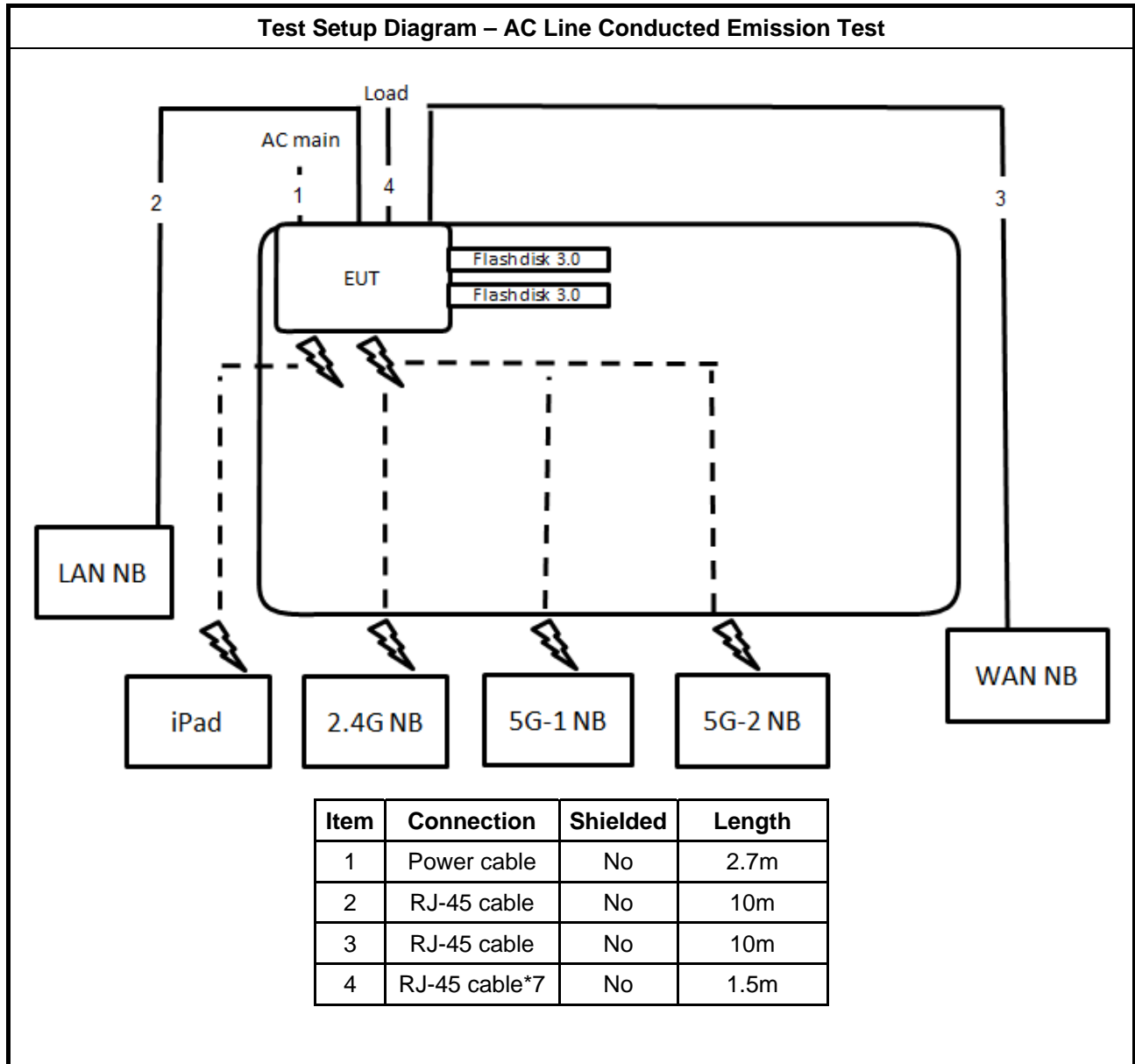
(Beamforming Mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	RX Device	TP-LINK	AD7200(US)	N/A

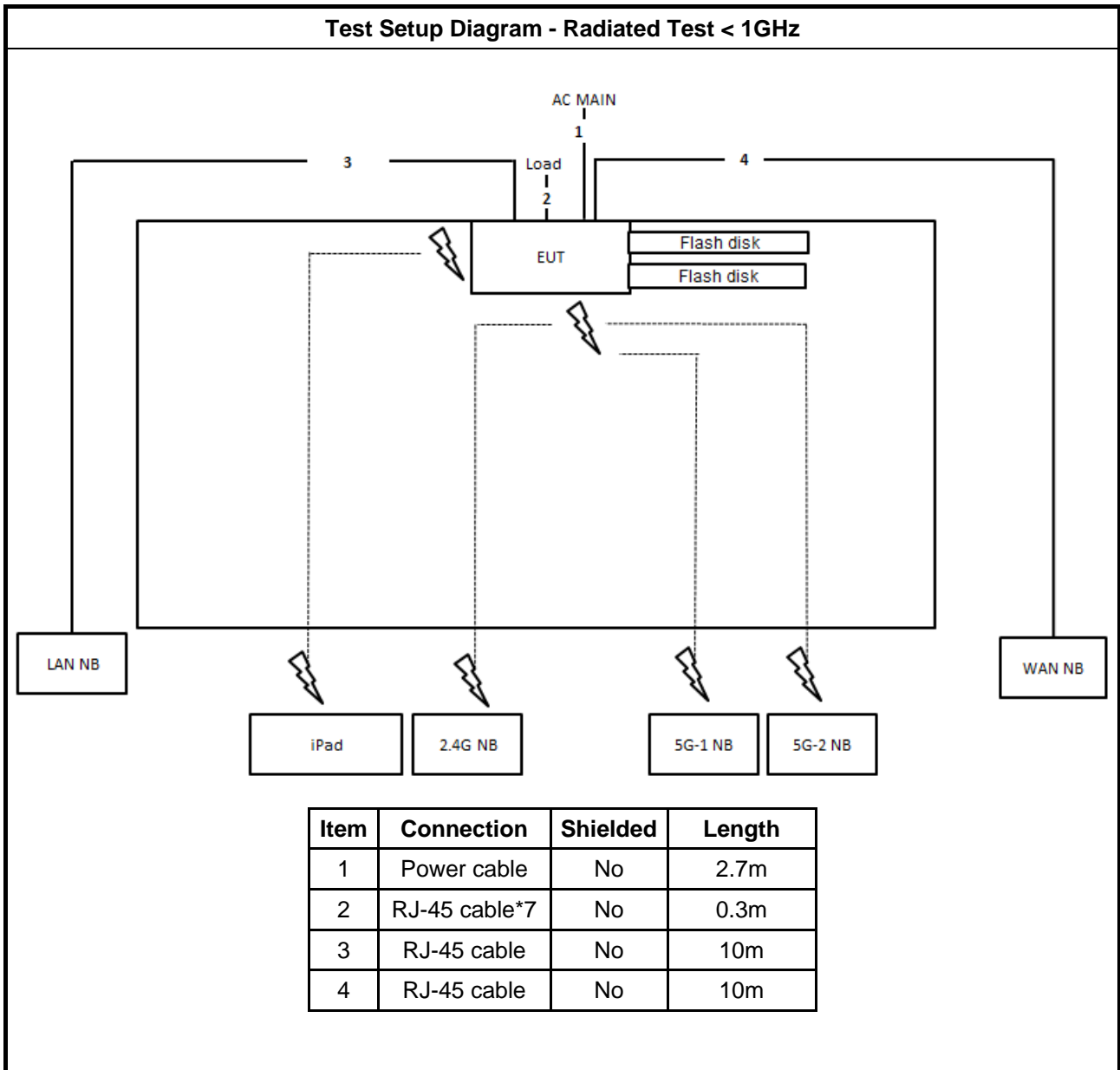
For Test Site No: TH01-CB

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

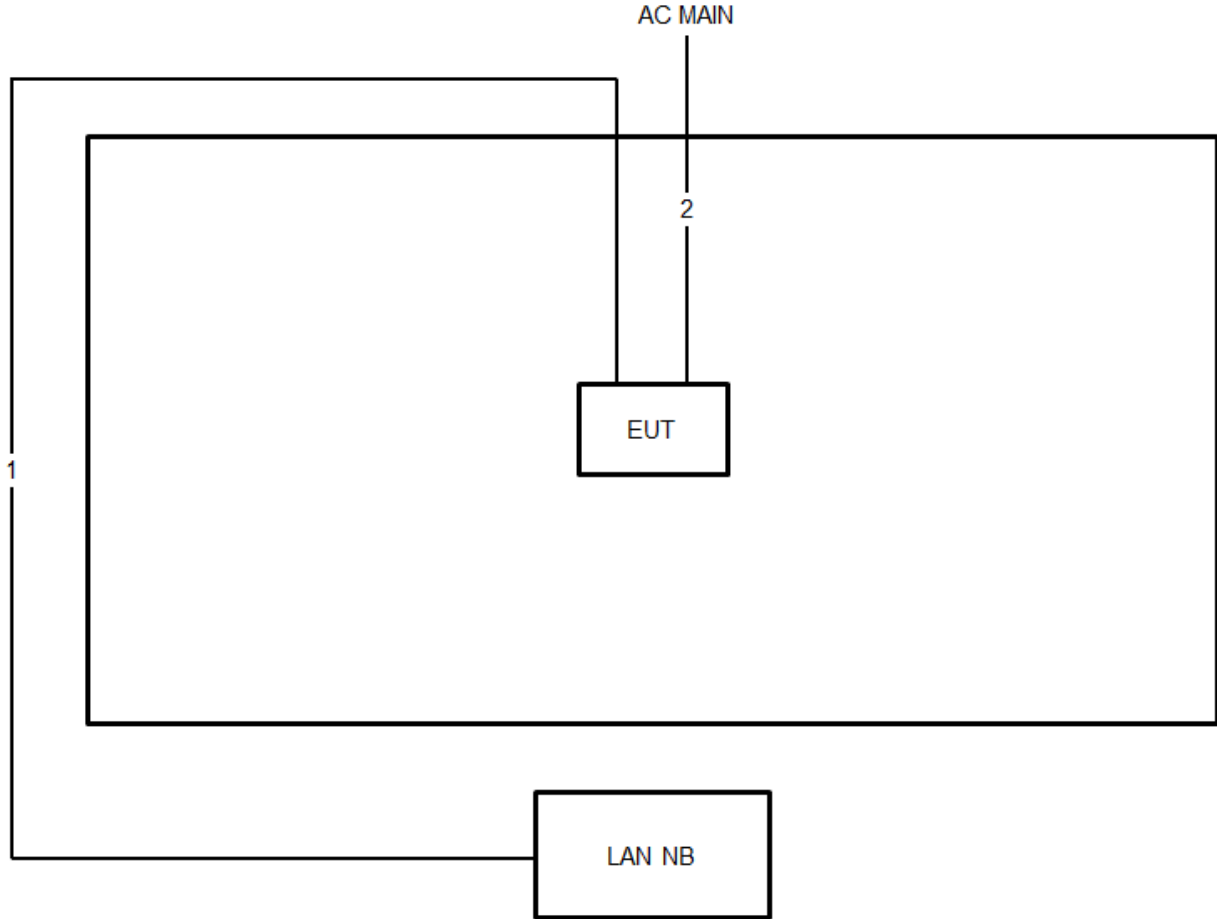
2.6 Test Setup Diagram



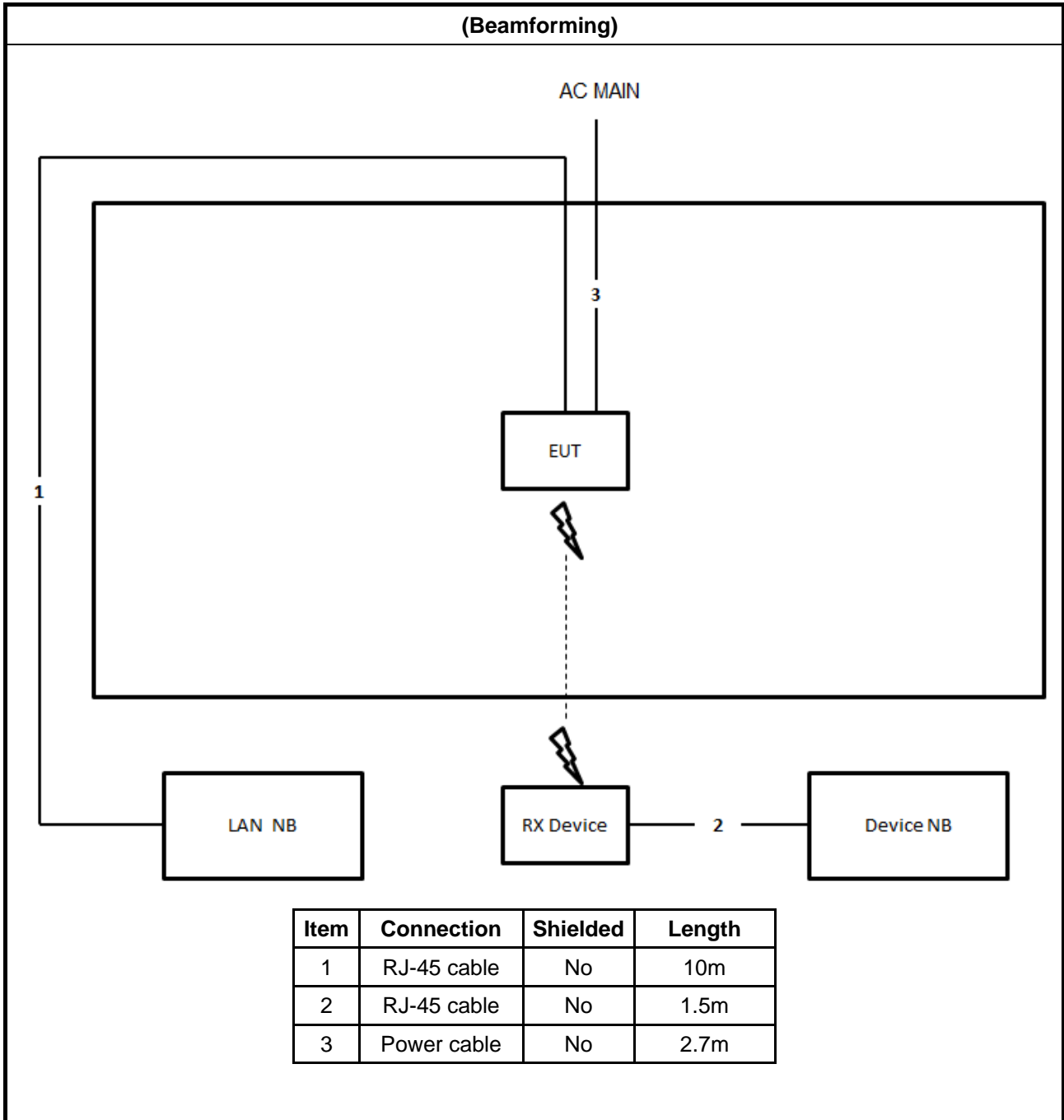
Test Setup Diagram - Radiated Test < 1GHz



Test Setup Diagram - Radiated Test > 1GHz
(Non-Beamforming)



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	2.7m



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.

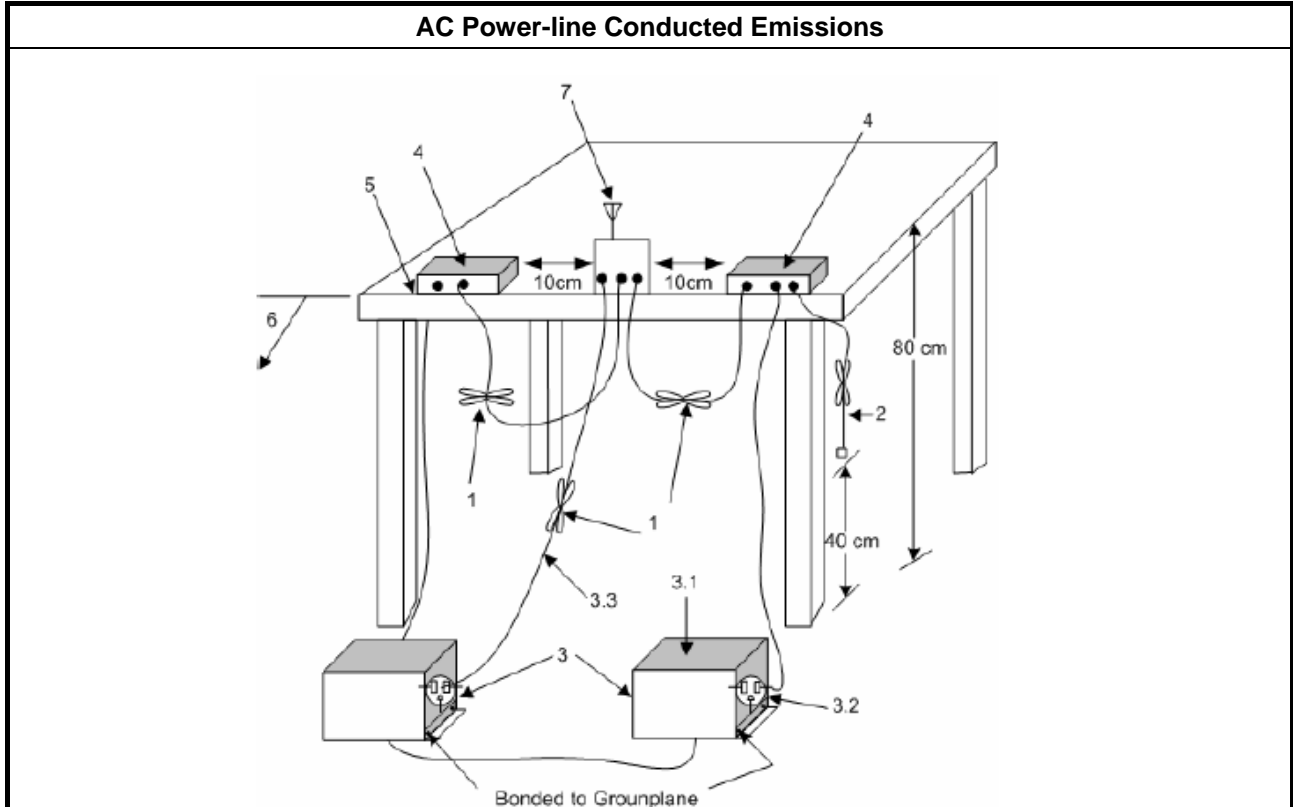
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.
LE-LAN Devices	
<input type="checkbox"/>	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.
<input type="checkbox"/>	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
<input type="checkbox"/>	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
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

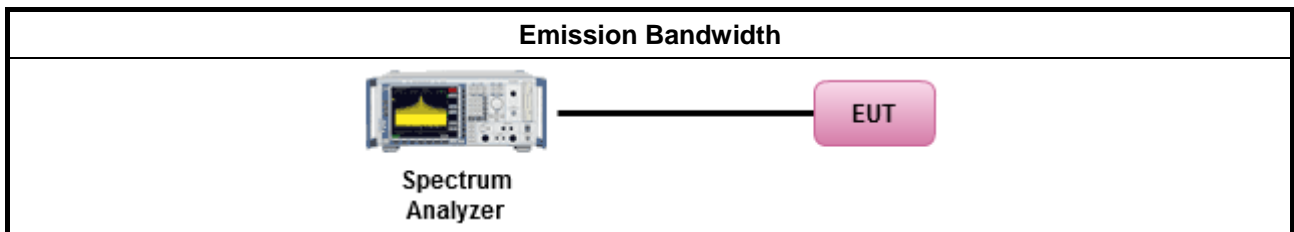
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ 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 $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/> 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 $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> 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 $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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	
<input type="checkbox"/> 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.	
<input type="checkbox"/> 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	
<input type="checkbox"/> 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	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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.	

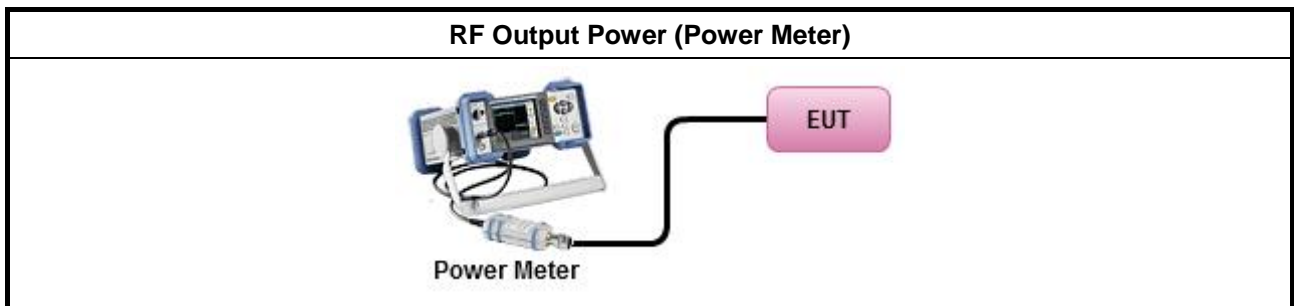
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
Average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> 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. 	
<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ 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 $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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	
<input type="checkbox"/> 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.	
<input type="checkbox"/> 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.	
	<ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta-8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta-40$) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> 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.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ 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.
<p>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</p> <p>G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

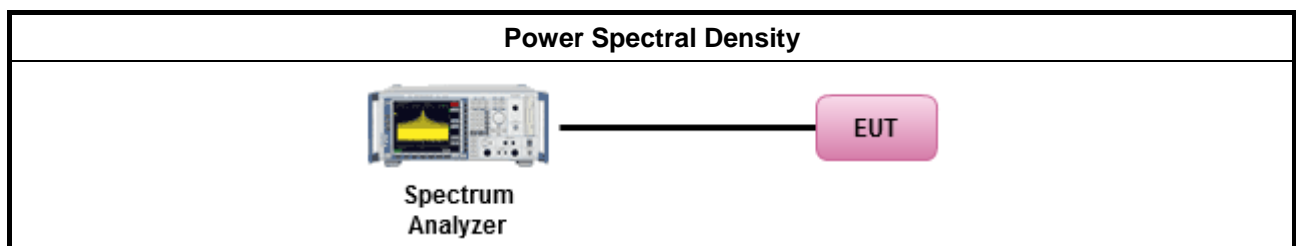
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ 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: 	
<input type="checkbox"/>	Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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,
<input type="checkbox"/>	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.
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	

3.4.4 Test Setup





3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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



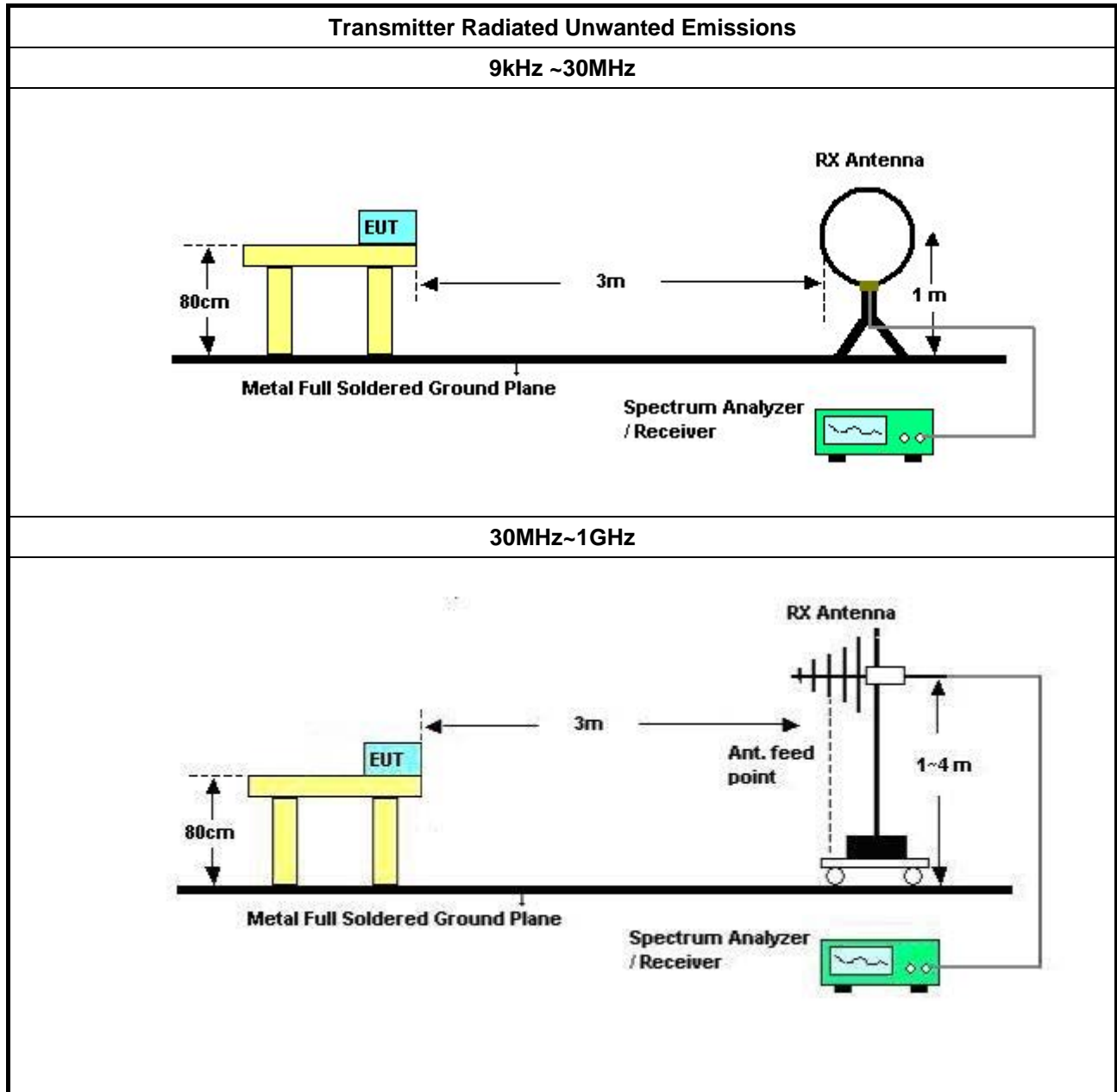
3.5.2 Measuring Instruments

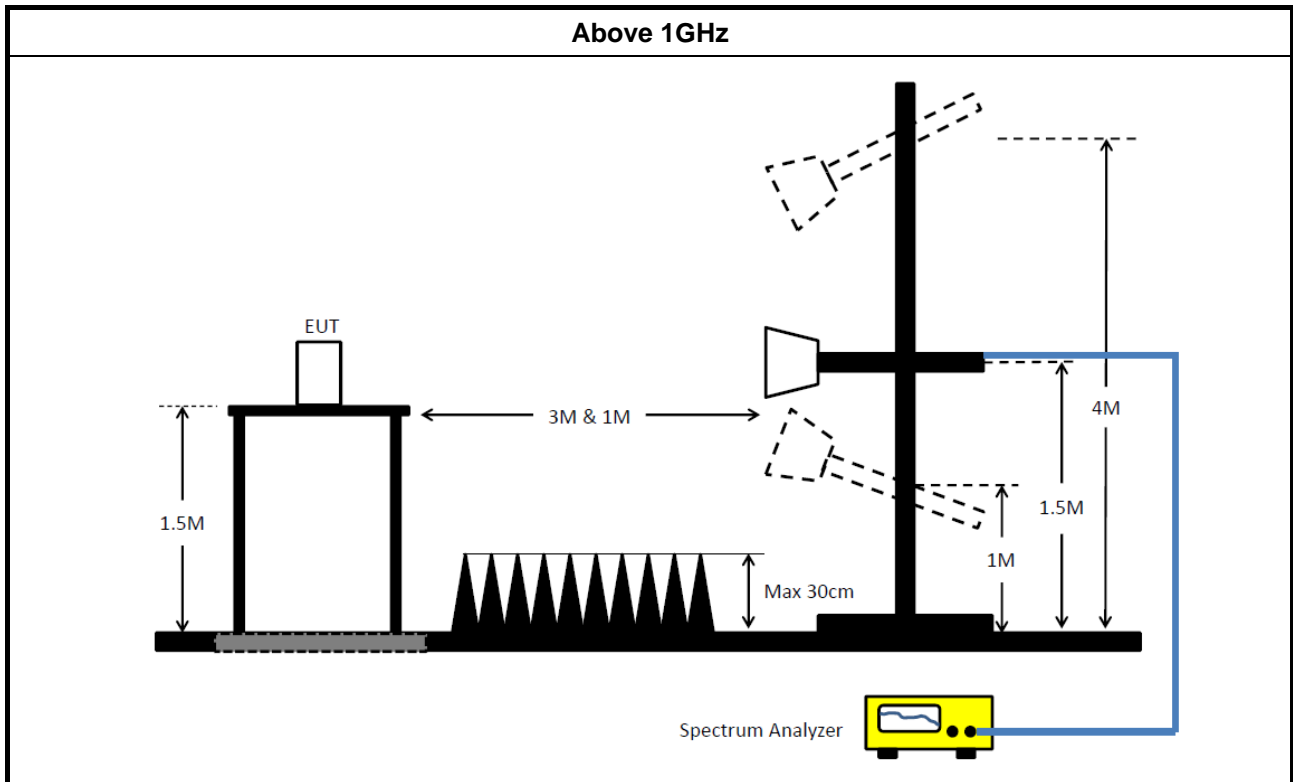
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> ▪ 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).
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> ▪ 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. <ul style="list-style-type: none"> <input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging). <input checked="" type="checkbox"/> Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW). <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	<ul style="list-style-type: none"> ▪ For radiated measurement. <ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level.
	<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> N/A
IEEE Std. 802.11
<ul style="list-style-type: none"> 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.

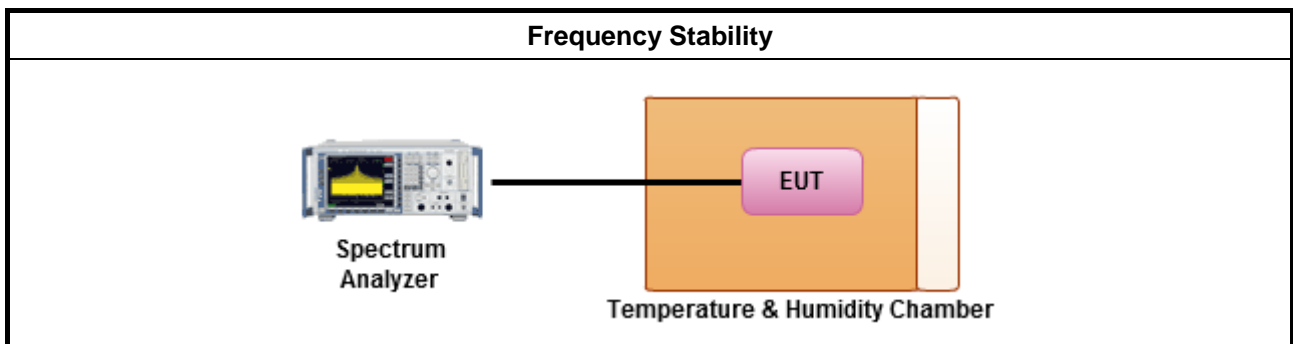
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.8 for frequency stability tests
<ul style="list-style-type: none"> Frequency stability with respect to ambient temperature
<ul style="list-style-type: none"> Frequency stability when varying supply voltage
<ul style="list-style-type: none"> Extreme temperature is 0°C~40°C.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 13, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz ~ 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~ 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	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

Appendix A

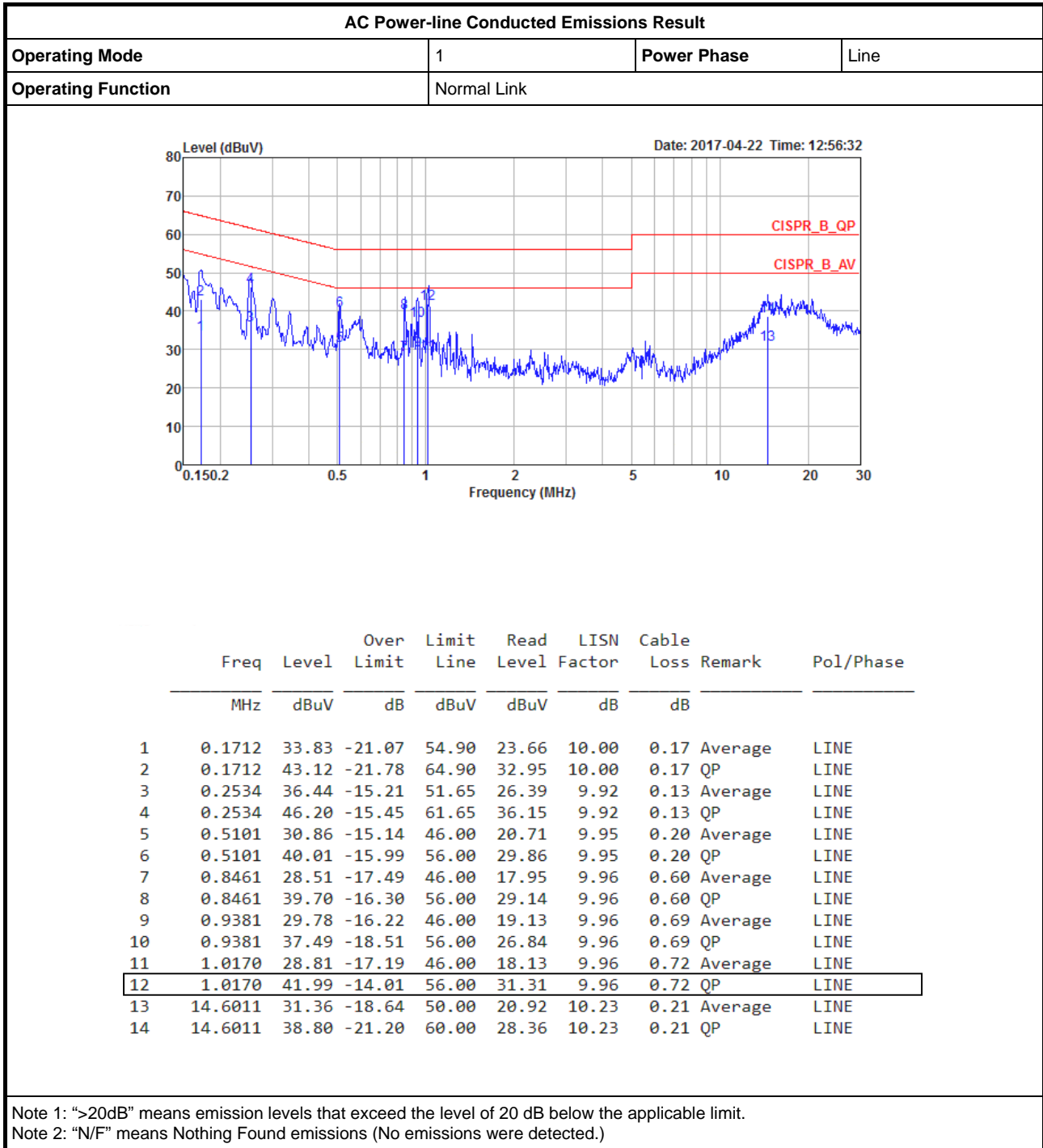
AC Power-line Conducted Emissions Result									
Operating Mode	1		Power Phase	Neutral					
Operating Function	Normal Link								
<p>The graph displays the AC power-line conducted emissions. The y-axis represents Level in dBuV (0 to 80), and the x-axis represents Frequency in MHz (0.150.2 to 30). Two red lines indicate the CISPR limits: CISPR_B_QP (Quasi-Peak) and CISPR_B_AV (Average). The blue line shows the measured emission levels. Several peaks are labeled with numbers 1 through 14, corresponding to the data table below.</p>									
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1749	33.95	-20.77	54.72	23.76	10.01	0.18	Average	NEUTRAL
2	0.1749	44.62	-20.10	64.72	34.43	10.01	0.18	QP	NEUTRAL
3	0.2547	36.29	-15.31	51.60	26.08	10.08	0.13	Average	NEUTRAL
4	0.2547	45.23	-16.37	61.60	35.02	10.08	0.13	QP	NEUTRAL
5	0.5128	29.84	-16.16	46.00	19.42	10.22	0.20	Average	NEUTRAL
6	0.5128	37.28	-18.72	56.00	26.86	10.22	0.20	QP	NEUTRAL
7	0.8449	28.16	-17.84	46.00	17.46	10.10	0.60	Average	NEUTRAL
8	0.8449	37.62	-18.38	56.00	26.92	10.10	0.60	QP	NEUTRAL
9	0.9331	30.80	-15.20	46.00	20.05	10.07	0.68	Average	NEUTRAL
10	0.9331	39.84	-16.16	56.00	29.09	10.07	0.68	QP	NEUTRAL
11	1.0211	28.94	-17.06	46.00	18.17	10.05	0.72	Average	NEUTRAL
12	1.0211	37.86	-18.14	56.00	27.09	10.05	0.72	QP	NEUTRAL
13	14.4623	33.96	-16.04	50.00	23.49	10.26	0.21	Average	NEUTRAL
14	14.4623	40.71	-19.29	60.00	30.24	10.26	0.21	QP	NEUTRAL

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



AC Power-line Conducted Emissions Result

Appendix A





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_4TX	-	-	-	-	-
5.15-5.25GHz	31.575M	16.692M	16M7D1D	21.3M	16.567M
5.725-5.85GHz	16.375M	16.817M	16M8D1D	16.3M	16.592M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	35.5M	17.816M	17M8D1D	21.475M	17.716M
5.725-5.85GHz	17.625M	17.991M	18M0D1D	17.55M	17.791M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	70.75M	36.382M	36M4D1D	39.7M	36.182M
5.725-5.85GHz	36.35M	36.582M	36M6D1D	36.25M	36.232M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	81.5M	75.062M	75M1D1D	80.3M	74.863M
5.725-5.85GHz	76.3M	75.862M	75M9D1D	76.3M	75.662M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	37.25M	17.866M	17M9D1D	21.575M	17.791M
5.725-5.85GHz	17.6M	17.866M	17M9D1D	17.55M	17.791M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	75.05M	36.432M	36M4D1D	40.1M	36.232M
5.725-5.85GHz	36.35M	36.432M	36M4D1D	36.3M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
5.15-5.25GHz	81.6M	75.062M	75M1D1D	80.8M	74.763M
5.725-5.85GHz	76.3M	75.862M	75M9D1D	75.7M	75.662M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

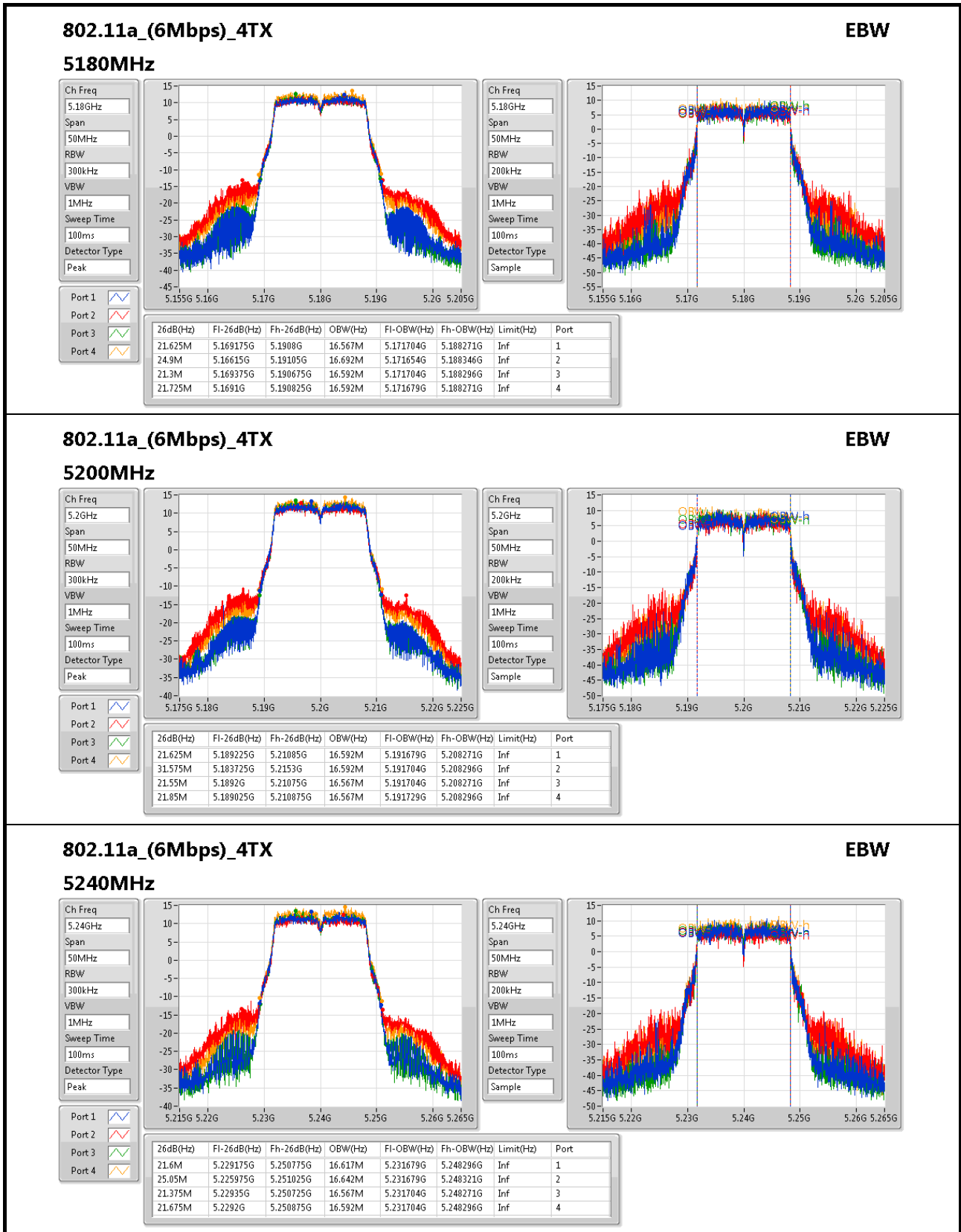
Min-OBW = Minimum 99% occupied bandwidth;

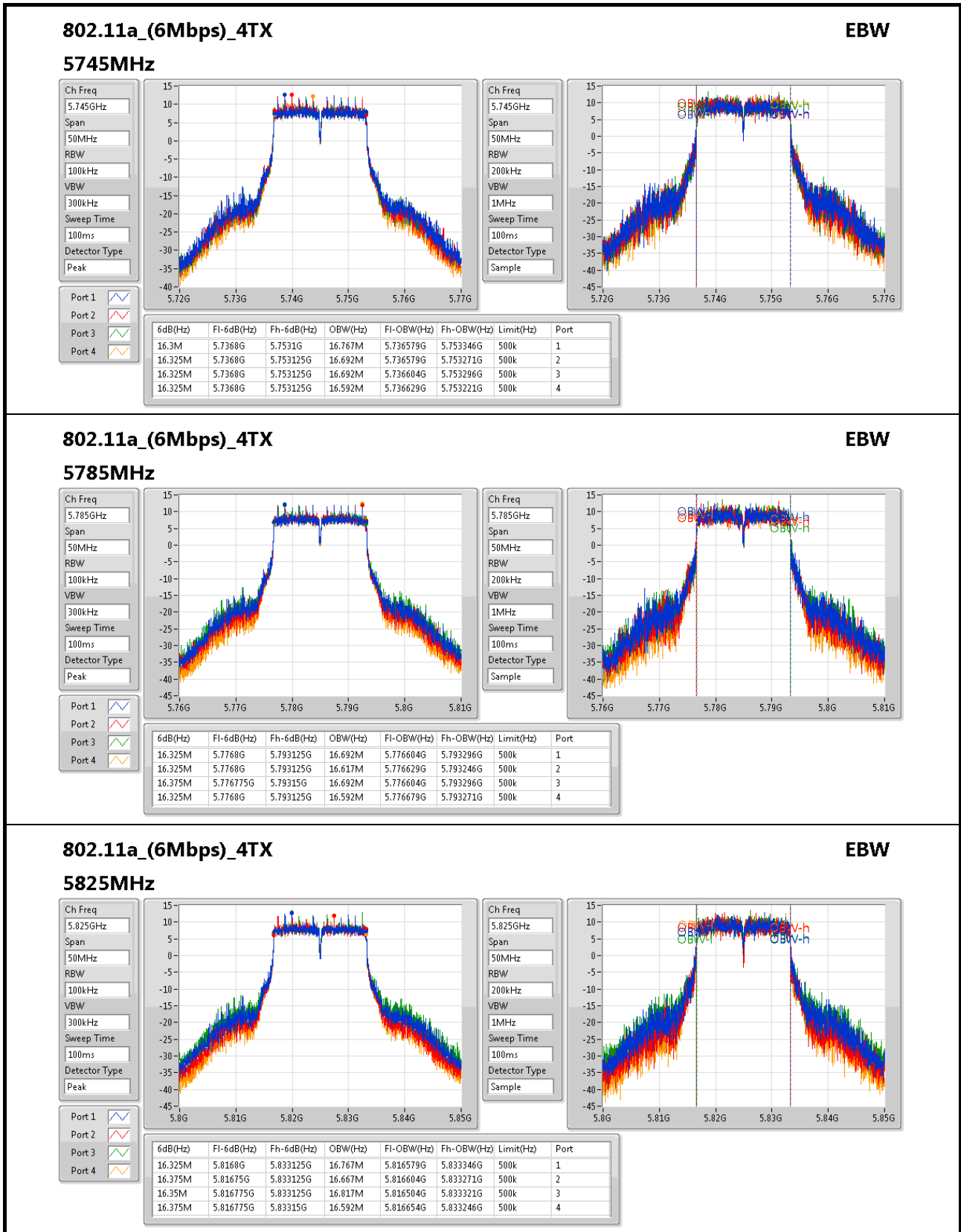
Result

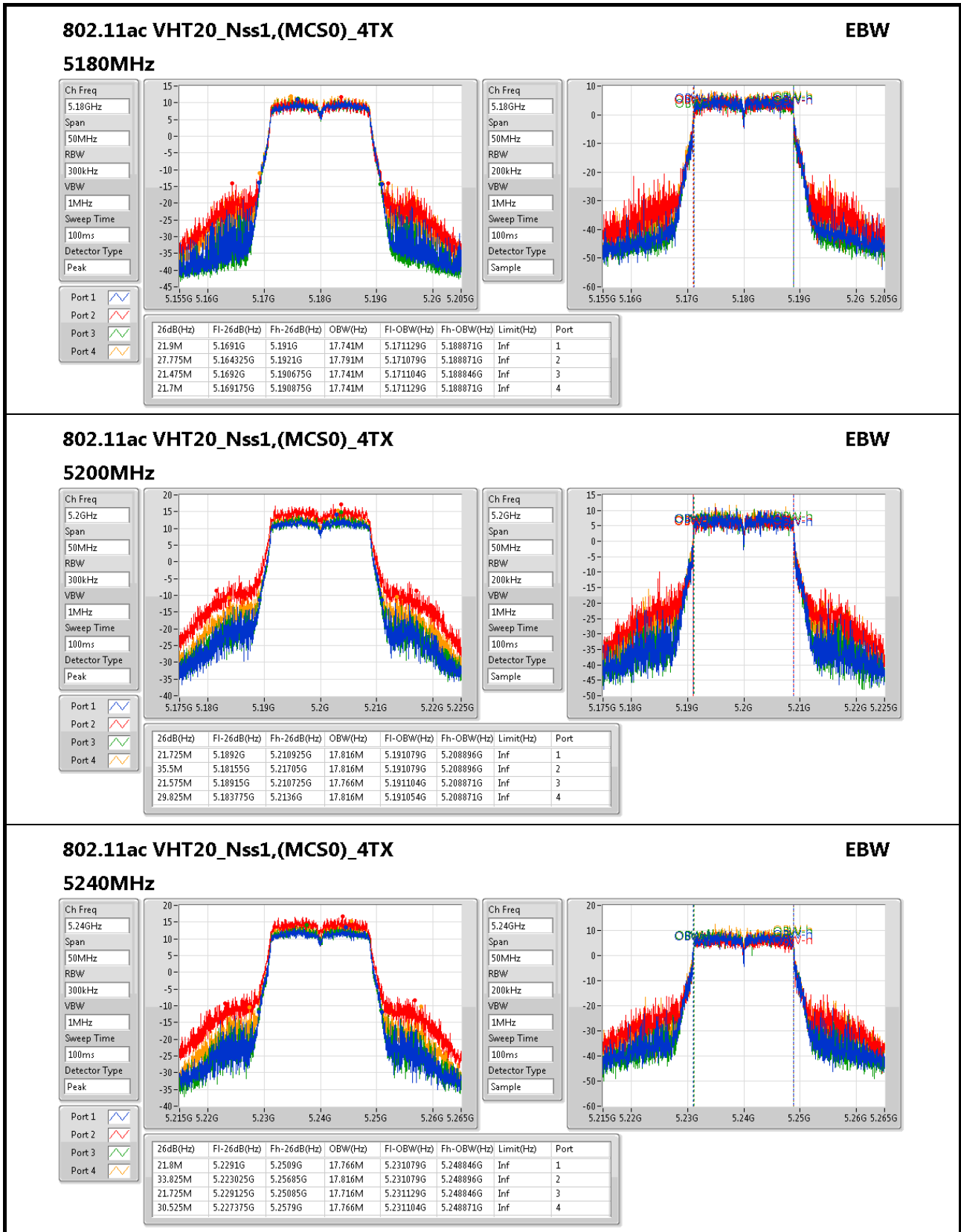
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.625M	16.567M	24.9M	16.692M	21.3M	16.592M	21.725M	16.592M
5200MHz	Pass	Inf	21.625M	16.592M	31.575M	16.592M	21.55M	16.567M	21.85M	16.567M
5240MHz	Pass	Inf	21.6M	16.617M	25.05M	16.642M	21.375M	16.567M	21.675M	16.592M
5745MHz	Pass	500k	16.3M	16.767M	16.325M	16.692M	16.325M	16.692M	16.325M	16.592M
5785MHz	Pass	500k	16.325M	16.692M	16.325M	16.617M	16.375M	16.692M	16.325M	16.592M
5825MHz	Pass	500k	16.325M	16.767M	16.375M	16.667M	16.35M	16.817M	16.375M	16.592M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.9M	17.741M	27.775M	17.791M	21.475M	17.741M	21.7M	17.741M
5200MHz	Pass	Inf	21.725M	17.816M	35.5M	17.816M	21.575M	17.766M	29.825M	17.816M
5240MHz	Pass	Inf	21.8M	17.766M	33.825M	17.816M	21.725M	17.716M	30.525M	17.766M
5745MHz	Pass	500k	17.6M	17.816M	17.6M	17.816M	17.55M	17.891M	17.6M	17.816M
5785MHz	Pass	500k	17.575M	17.891M	17.575M	17.841M	17.6M	17.866M	17.6M	17.791M
5825MHz	Pass	500k	17.575M	17.991M	17.625M	17.841M	17.575M	17.916M	17.575M	17.791M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.45M	36.182M	39.75M	36.182M	39.95M	36.282M	39.7M	36.232M
5230MHz	Pass	Inf	65.5M	36.332M	70.75M	36.382M	39.95M	36.182M	50M	36.282M
5755MHz	Pass	500k	36.3M	36.582M	36.3M	36.382M	36.3M	36.282M	36.3M	36.282M
5795MHz	Pass	500k	36.35M	36.432M	36.35M	36.232M	36.25M	36.382M	36.3M	36.382M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.5M	74.863M	81.2M	74.863M	81.2M	75.062M	80.3M	74.963M
5775MHz	Pass	500k	76.3M	75.862M	76.3M	75.862M	76.3M	75.762M	76.3M	75.662M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.8M	17.816M	32.325M	17.816M	21.625M	17.791M	21.575M	17.816M
5200MHz	Pass	Inf	22.3M	17.791M	35.85M	17.866M	21.775M	17.791M	37.025M	17.841M
5240MHz	Pass	Inf	22.125M	17.841M	37.25M	17.866M	21.7M	17.791M	31.125M	17.816M
5745MHz	Pass	500k	17.575M	17.791M	17.6M	17.816M	17.575M	17.791M	17.6M	17.791M
5785MHz	Pass	500k	17.55M	17.866M	17.6M	17.791M	17.6M	17.816M	17.575M	17.791M
5825MHz	Pass	500k	17.575M	17.866M	17.6M	17.816M	17.575M	17.791M	17.6M	17.791M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.5M	36.232M	40.2M	36.282M	40.1M	36.282M	40.2M	36.282M
5230MHz	Pass	Inf	60.4M	36.232M	75.05M	36.332M	46.8M	36.232M	70.2M	36.432M
5755MHz	Pass	500k	36.3M	36.382M	36.35M	36.232M	36.3M	36.282M	36.35M	36.282M
5795MHz	Pass	500k	36.3M	36.432M	36.3M	36.282M	36.3M	36.282M	36.35M	36.382M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.6M	74.863M	81.3M	74.963M	80.8M	75.062M	81.3M	74.763M
5775MHz	Pass	500k	75.7M	75.662M	75.7M	75.762M	76.3M	75.862M	76.1M	75.662M

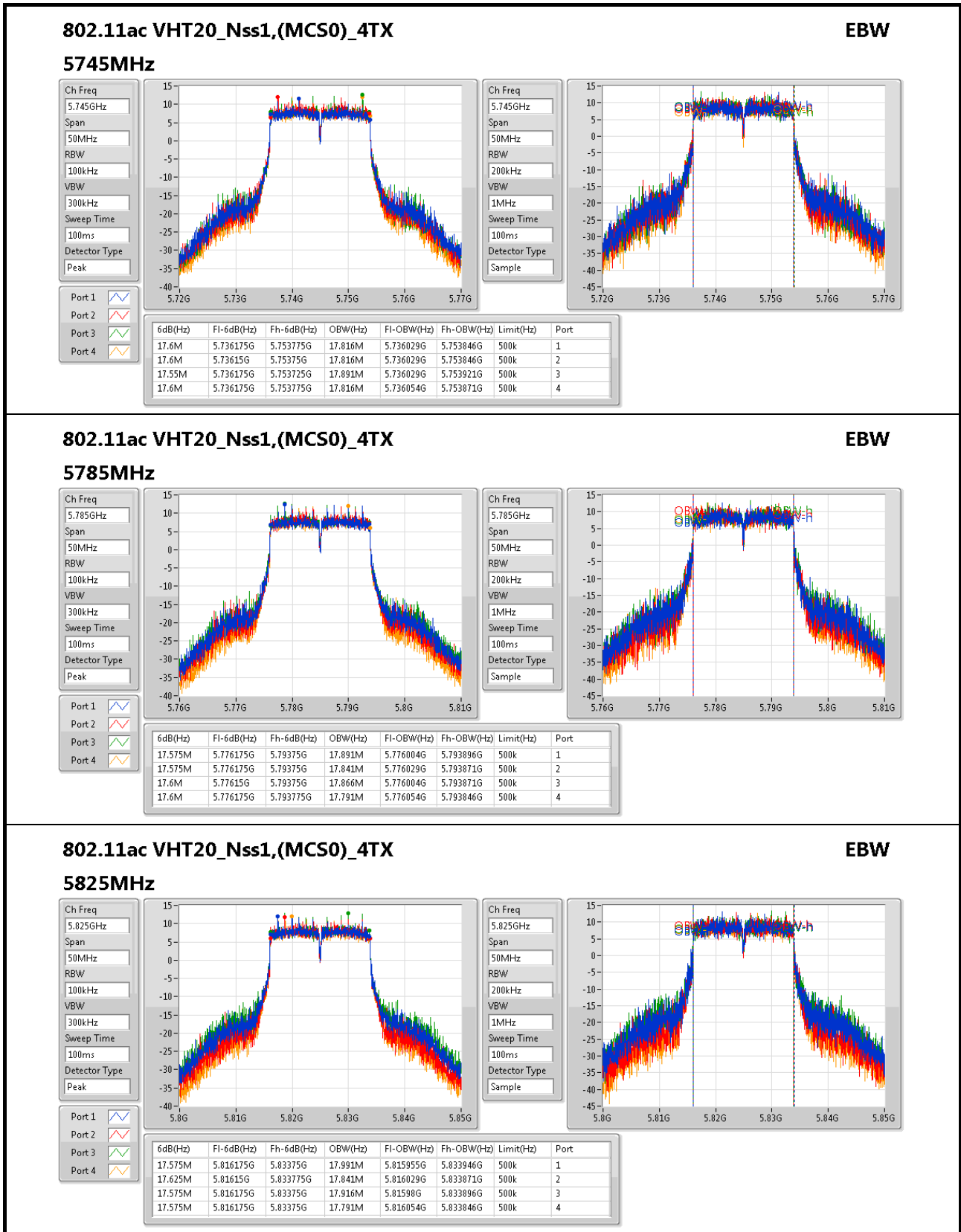
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

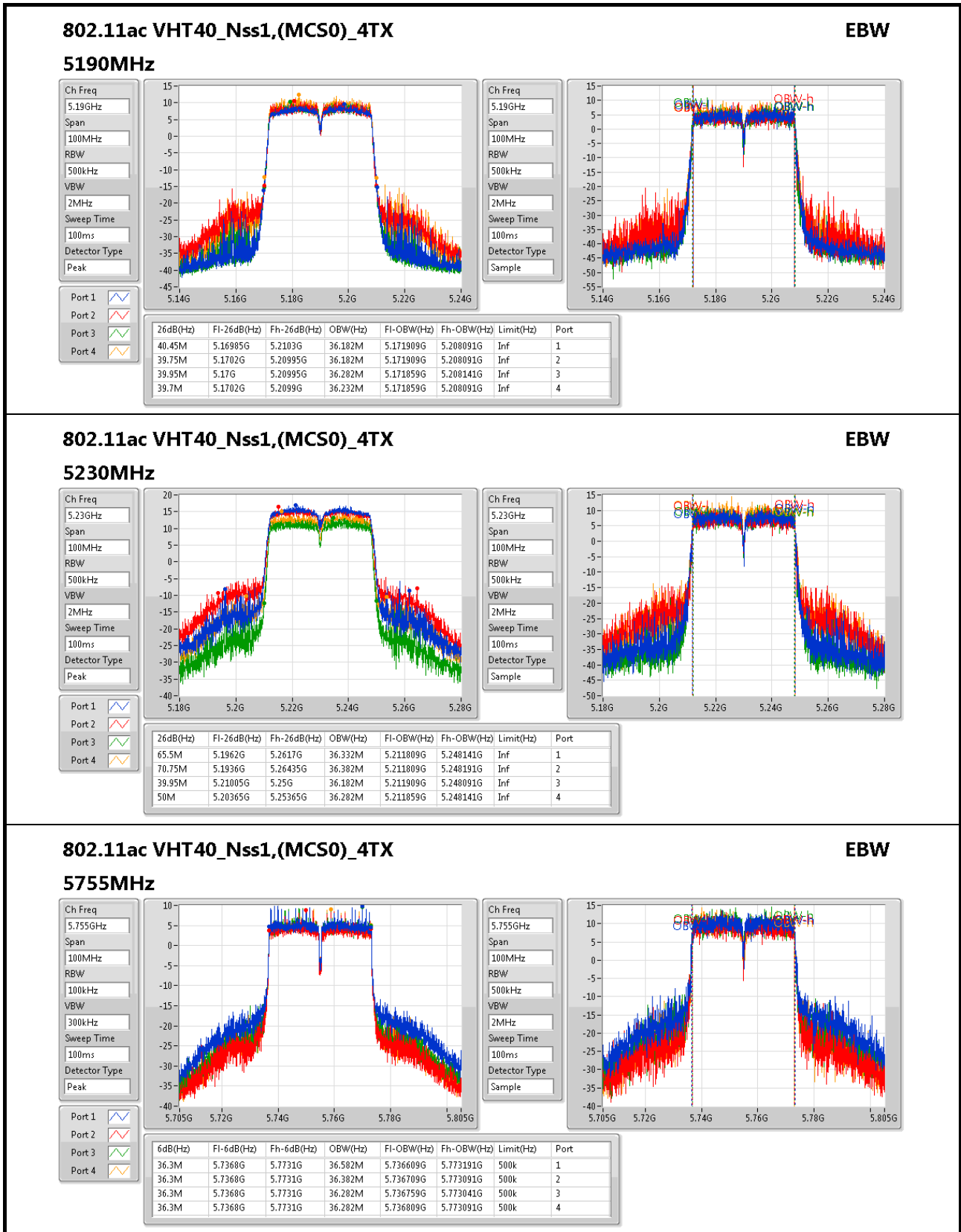
Port X-OBW = Port X 99% occupied bandwidth;

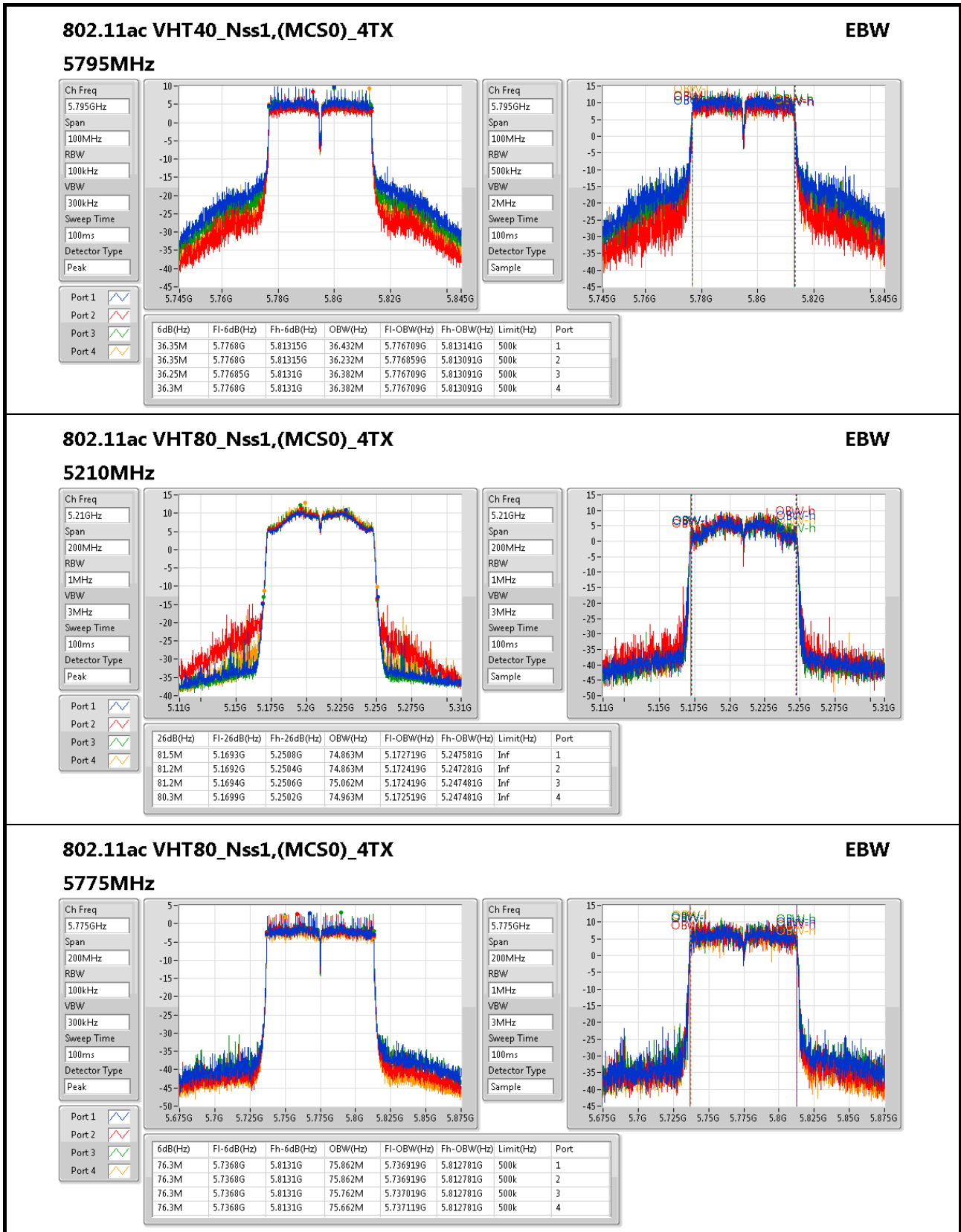


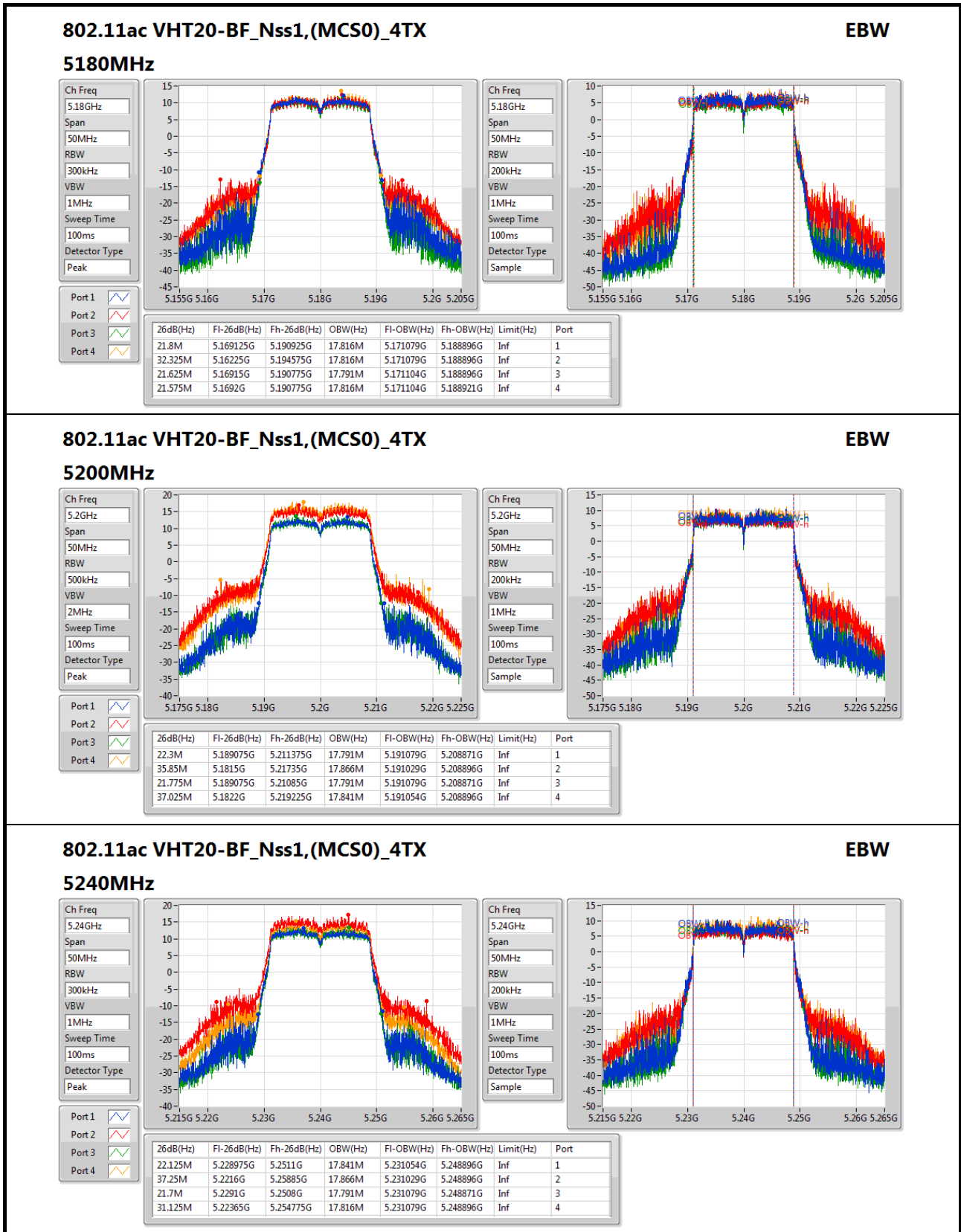








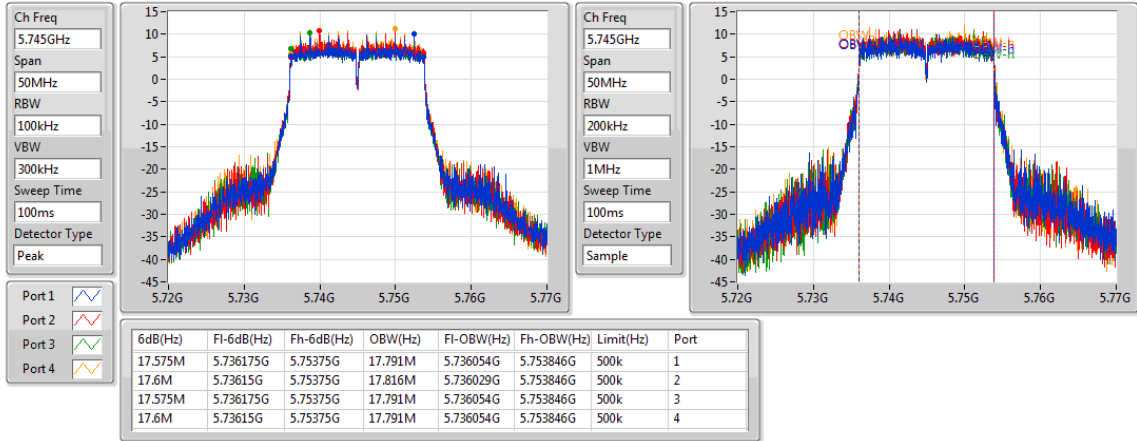




802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

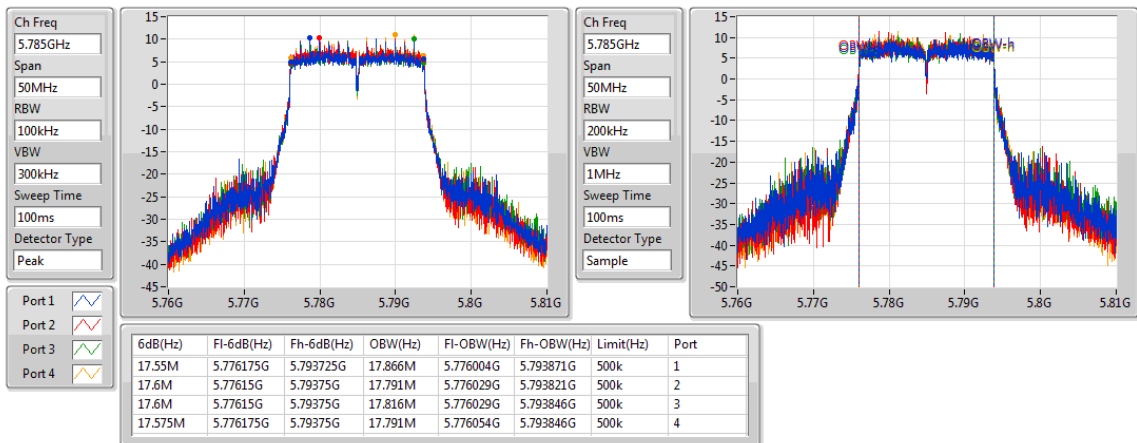
5745MHz



802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

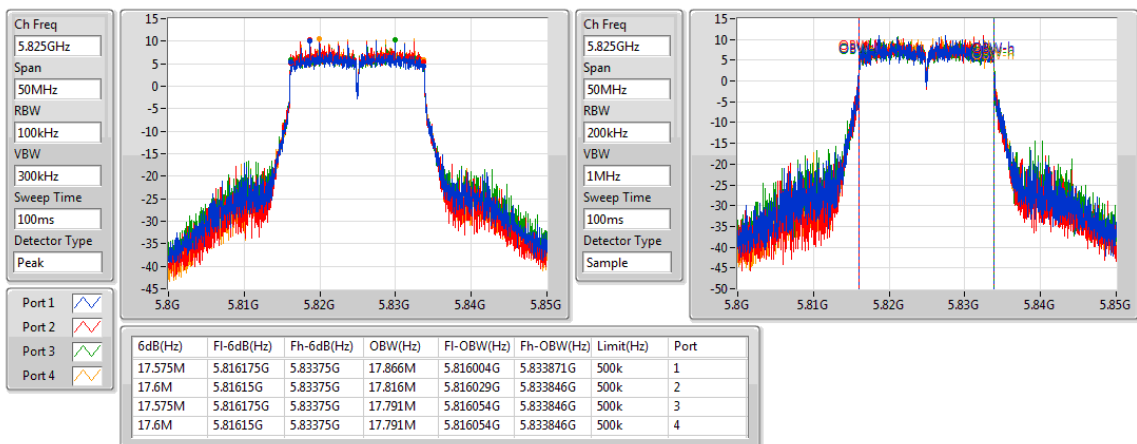
5785MHz

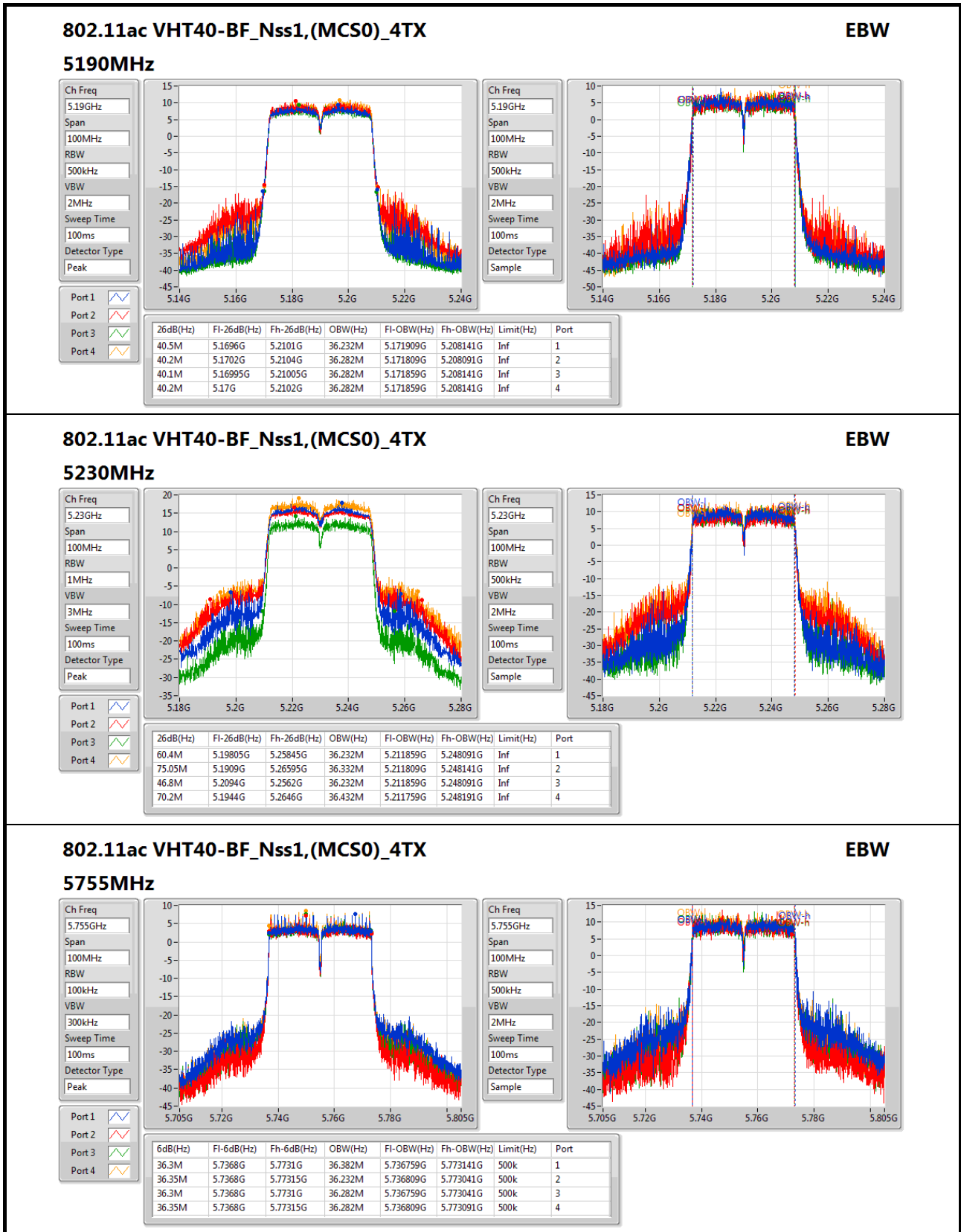


802.11ac VHT20-BF_Nss1,(MCS0)_4TX

EBW

5825MHz

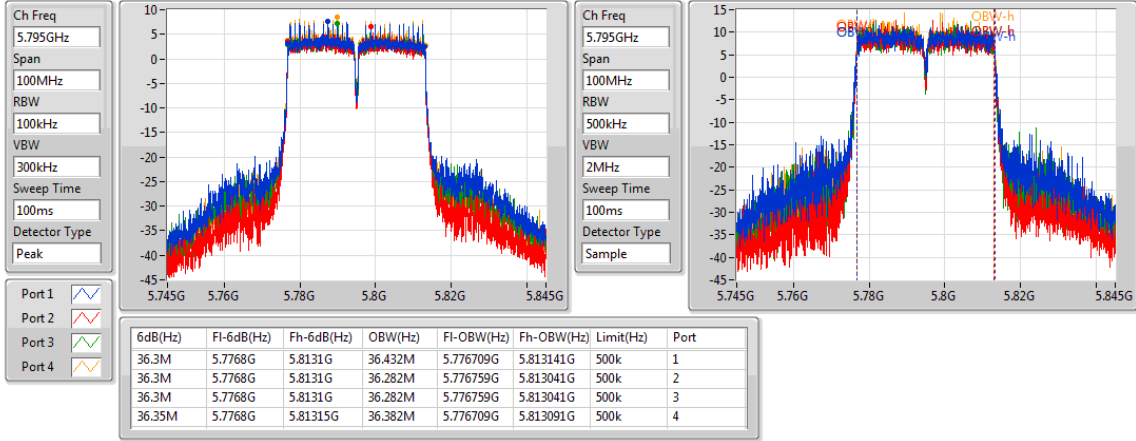




802.11ac VHT40-BF_Nss1,(MCS0)_4TX

EBW

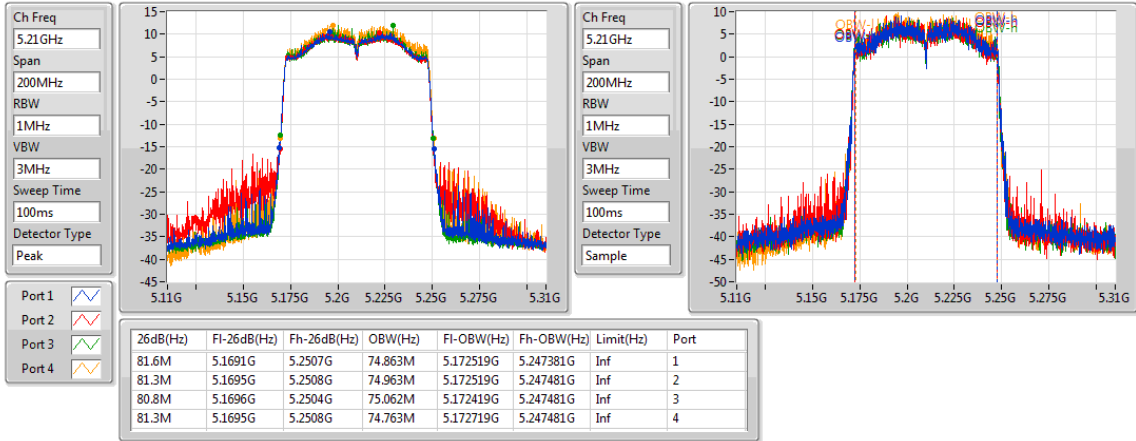
5795MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

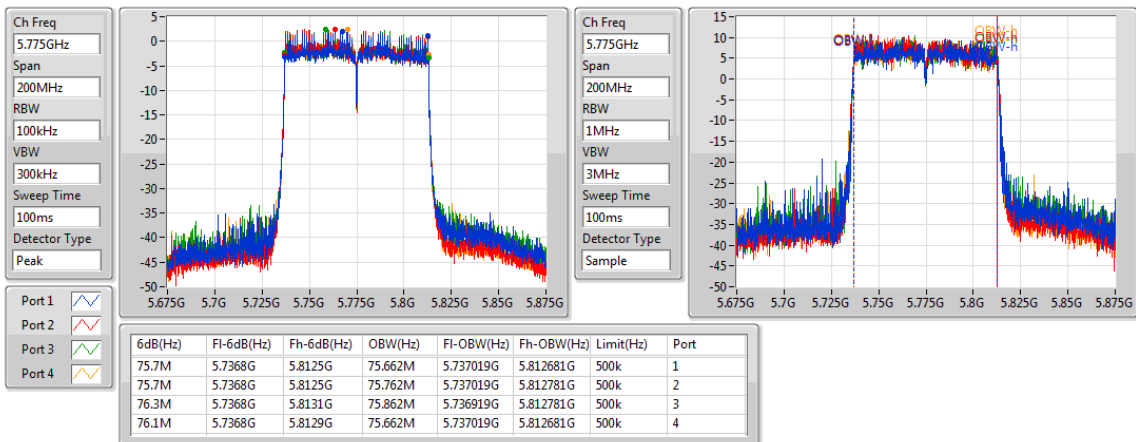
5210MHz



802.11ac VHT80-BF_Nss1,(MCS0)_4TX

EBW

5775MHz





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_4TX	-	-	-	-
5.15-5.25GHz	27.95	0.62373	29.75	0.94406
5.725-5.85GHz	29.98	0.99541	31.78	1.50661
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	28.19	0.65917	29.99	0.99770
5.725-5.85GHz	29.98	0.99541	31.78	1.50661
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	27.42	0.55208	29.22	0.83560
5.725-5.85GHz	29.94	0.98628	31.74	1.49279
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	24.02	0.25235	25.82	0.38194
5.725-5.85GHz	26.08	0.40551	27.88	0.61376
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	27.85	0.60954	35.67	3.68978
5.725-5.85GHz	28.10	0.64565	35.92	3.90841
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	27.92	0.61944	35.75	3.75837
5.725-5.85GHz	28.01	0.63241	35.83	3.82825
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-
5.15-5.25GHz	23.42	0.21979	31.24	1.33045
5.725-5.85GHz	25.47	0.35237	33.29	2.13304



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.80	20.82	20.32	20.41	21.36	26.77	30.00
5200MHz	Pass	1.80	21.77	21.58	21.79	22.51	27.95	30.00
5240MHz	Pass	1.80	21.53	21.07	21.77	22.80	27.86	30.00
5745MHz	Pass	1.80	23.97	23.99	24.10	23.78	29.98	30.00
5785MHz	Pass	1.80	23.66	23.80	24.06	23.40	29.76	30.00
5825MHz	Pass	1.80	23.93	23.99	24.32	23.50	29.97	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.80	19.30	18.95	18.77	19.57	25.18	30.00
5200MHz	Pass	1.80	22.12	21.73	21.96	22.79	28.19	30.00
5240MHz	Pass	1.80	22.00	21.25	21.99	23.01	28.13	30.00
5745MHz	Pass	1.80	23.84	24.27	23.82	23.88	29.98	30.00
5785MHz	Pass	1.80	23.88	23.83	24.25	23.51	29.90	30.00
5825MHz	Pass	1.80	23.89	23.97	24.18	23.77	29.98	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	1.80	18.30	17.95	17.83	18.65	24.22	30.00
5230MHz	Pass	1.80	21.43	20.71	21.01	22.27	27.42	30.00
5755MHz	Pass	1.80	24.45	23.24	23.99	23.93	29.94	30.00
5795MHz	Pass	1.80	24.48	22.93	23.82	23.76	29.80	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	1.80	18.22	17.93	17.89	17.95	24.02	30.00
5775MHz	Pass	1.80	20.22	20.03	20.36	19.57	26.08	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	20.26	20.03	19.75	20.65	26.21	28.18
5200MHz	Pass	7.82	21.67	21.39	21.40	22.73	27.85	28.18
5240MHz	Pass	7.82	21.39	21.31	21.49	22.81	27.82	28.18
5745MHz	Pass	7.82	21.70	22.06	21.83	22.60	28.08	28.18
5785MHz	Pass	7.82	21.73	21.93	21.83	22.26	27.96	28.18
5825MHz	Pass	7.82	21.87	22.09	21.74	22.58	28.10	28.18
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.82	17.71	17.33	17.47	18.72	23.86	28.18
5230MHz	Pass	7.82	22.31	21.30	21.32	22.54	27.92	28.18
5755MHz	Pass	7.82	21.96	21.55	21.57	22.69	27.99	28.18
5795MHz	Pass	7.82	22.09	21.54	21.77	22.50	28.01	28.18
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.82	17.37	17.05	16.99	18.09	23.42	28.18
5775MHz	Pass	7.82	19.22	19.53	19.52	19.53	25.47	28.18

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11a_(6Mbps)_4TX	-	-
5.15-5.25GHz	15.07	22.89
5.725-5.85GHz	15.73	23.55
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	15.08	22.90
5.725-5.85GHz	15.41	23.23
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	11.94	19.76
5.725-5.85GHz	12.16	19.98
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	6.78	14.60
5.725-5.85GHz	5.88	13.70
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	14.67	22.49
5.725-5.85GHz	13.71	21.53
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	11.82	19.64
5.725-5.85GHz	10.62	18.44
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-
5.15-5.25GHz	5.40	13.22
5.725-5.85GHz	5.64	13.46

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

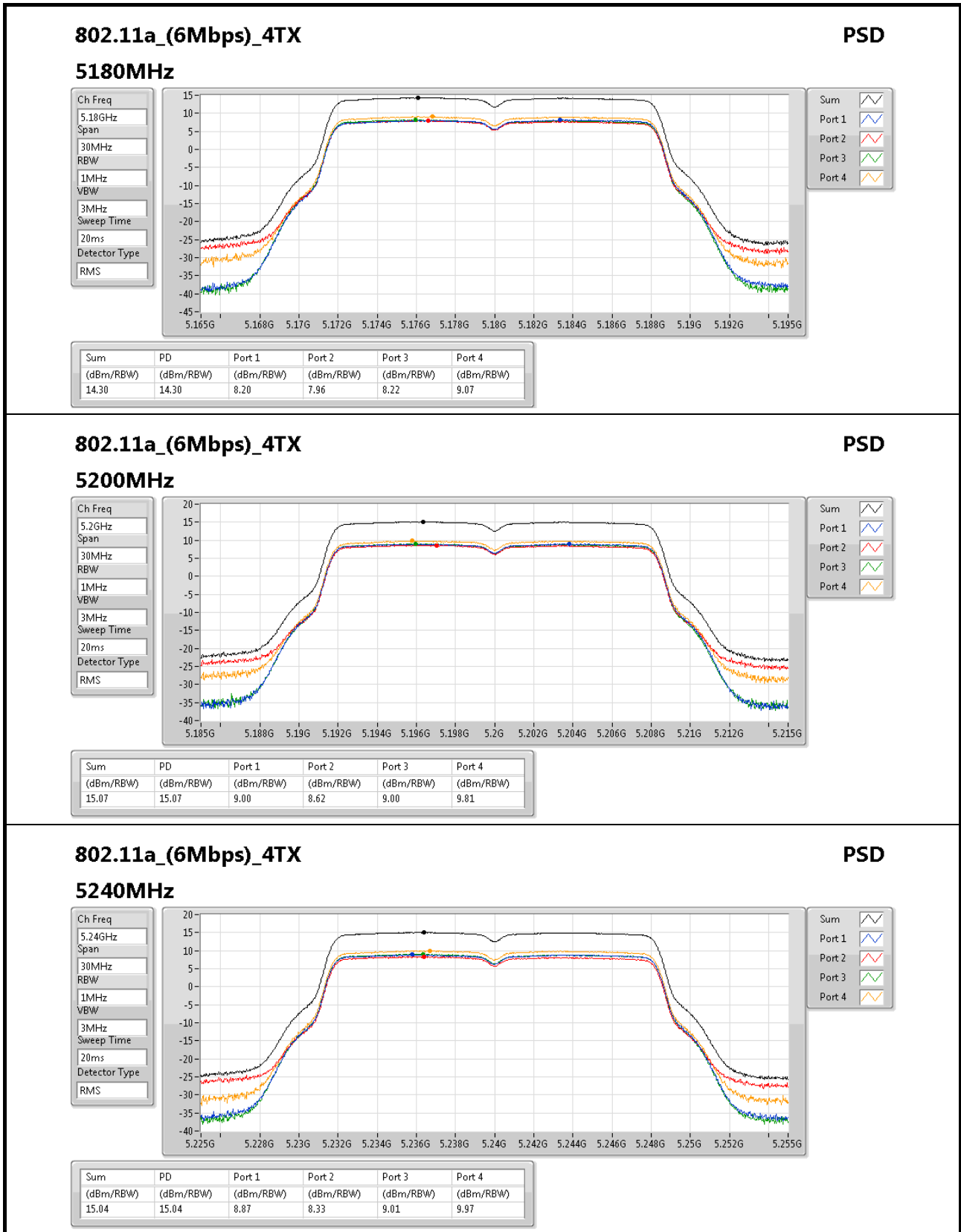


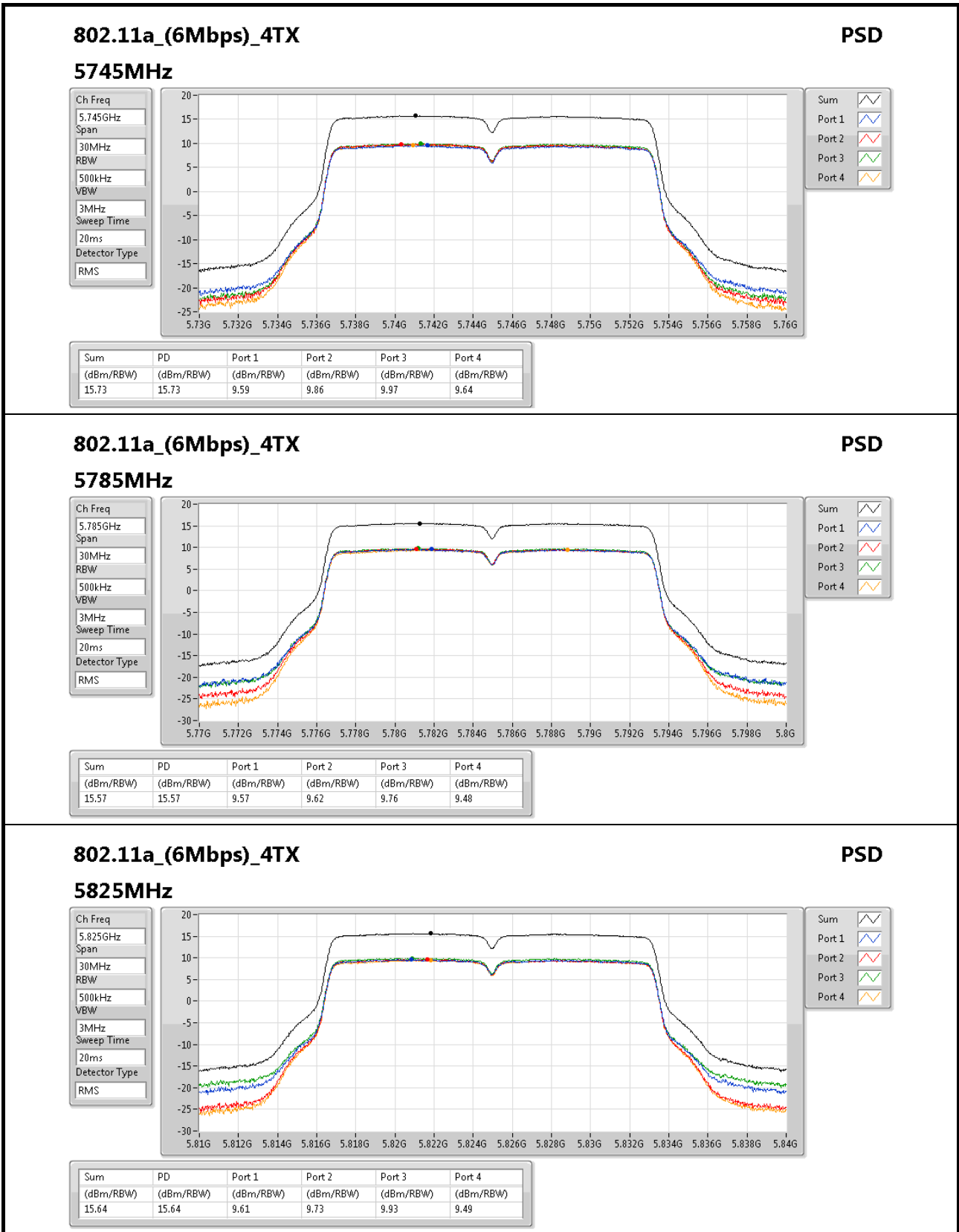
Result

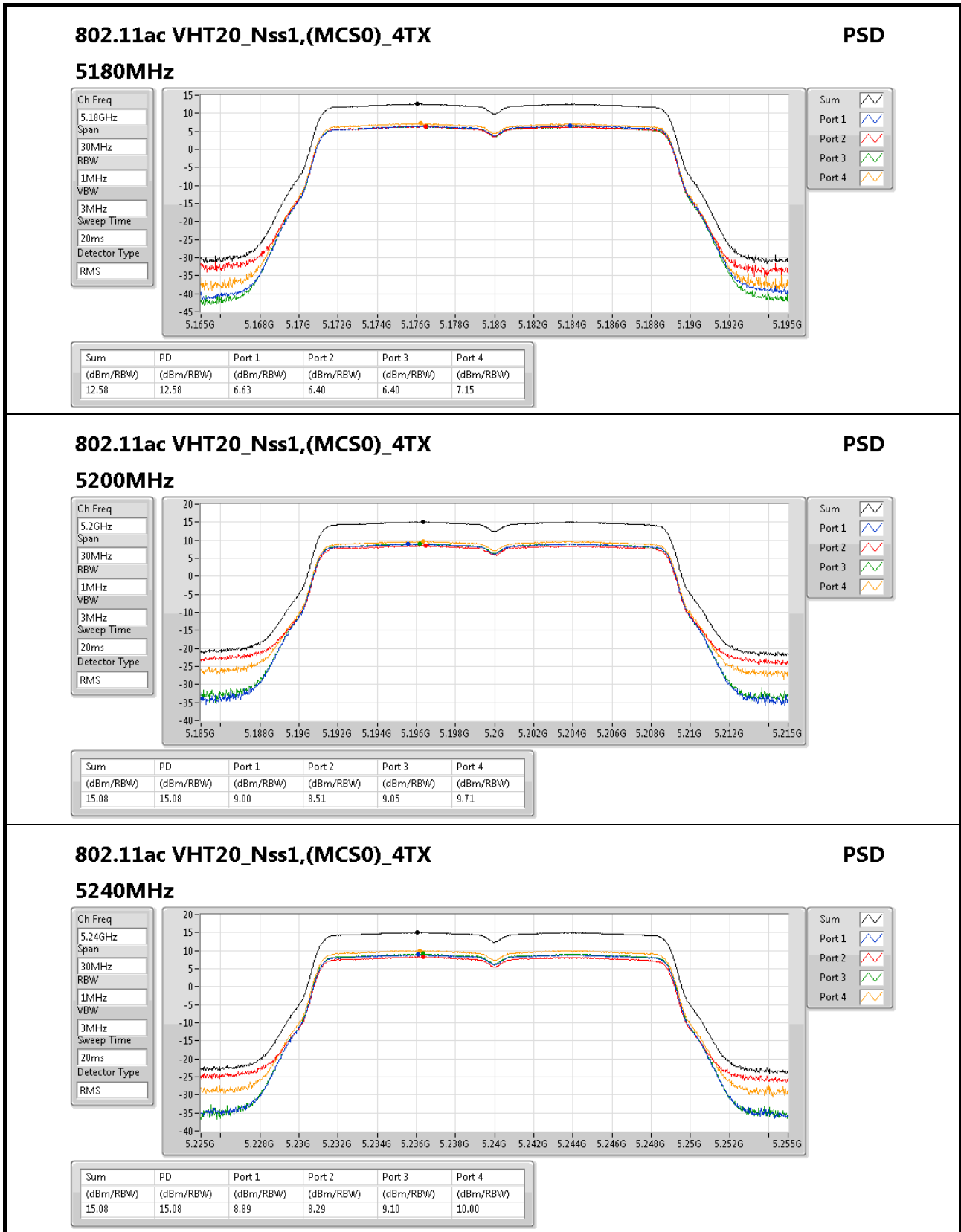
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	8.20	7.96	8.22	9.07	14.30	15.18
5200MHz	Pass	7.82	9.00	8.62	9.00	9.81	15.07	15.18
5240MHz	Pass	7.82	8.87	8.33	9.01	9.97	15.04	15.18
5745MHz	Pass	7.82	9.59	9.86	9.97	9.64	15.73	28.18
5785MHz	Pass	7.82	9.57	9.62	9.76	9.48	15.57	28.18
5825MHz	Pass	7.82	9.61	9.73	9.93	9.49	15.64	28.18
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	6.63	6.40	6.40	7.15	12.58	15.18
5200MHz	Pass	7.82	9.00	8.51	9.05	9.71	15.08	15.18
5240MHz	Pass	7.82	8.89	8.29	9.10	10.00	15.08	15.18
5745MHz	Pass	7.82	9.27	9.57	9.69	9.32	15.41	28.18
5785MHz	Pass	7.82	9.21	9.48	9.50	9.17	15.30	28.18
5825MHz	Pass	7.82	9.43	9.37	9.62	9.21	15.37	28.18
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.82	2.98	2.45	2.58	3.64	8.84	15.18
5230MHz	Pass	7.82	5.89	5.18	5.78	7.07	11.94	15.18
5755MHz	Pass	7.82	6.66	5.54	6.47	6.23	12.16	28.18
5795MHz	Pass	7.82	6.67	5.55	6.31	6.25	12.13	28.18
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.82	0.73	0.75	0.74	1.09	6.78	15.18
5775MHz	Pass	7.82	-0.03	-0.16	0.43	-0.70	5.88	28.18
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.82	7.01	6.75	6.37	7.46	12.83	15.18
5200MHz	Pass	7.82	8.62	8.29	8.21	9.34	14.57	15.18
5240MHz	Pass	7.82	8.78	8.15	8.47	9.52	14.67	15.18
5745MHz	Pass	7.82	7.35	7.90	7.60	8.30	13.71	28.18
5785MHz	Pass	7.82	7.32	7.77	7.47	7.96	13.50	28.18
5825MHz	Pass	7.82	7.23	7.65	7.51	7.89	13.50	28.18
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.82	2.13	1.61	1.19	2.67	7.77	15.18
5230MHz	Pass	7.82	6.02	5.21	5.50	6.77	11.82	15.18
5755MHz	Pass	7.82	4.88	4.36	4.23	5.37	10.62	28.18
5795MHz	Pass	7.82	4.79	3.95	4.10	5.26	10.53	28.18
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.82	-0.64	-0.77	-0.99	0.34	5.40	15.18
5775MHz	Pass	7.82	-0.55	-0.13	-0.14	-0.26	5.64	28.18

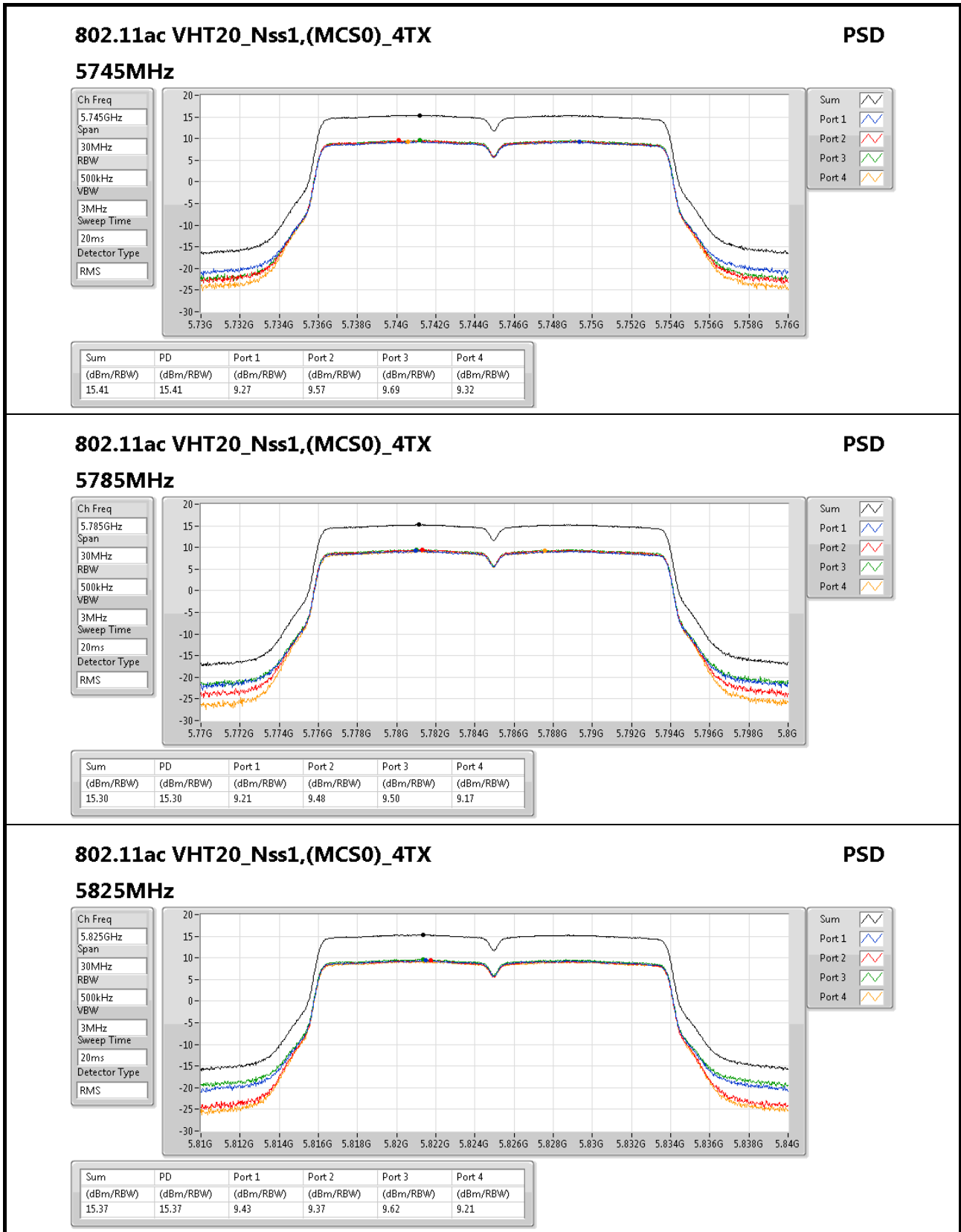
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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





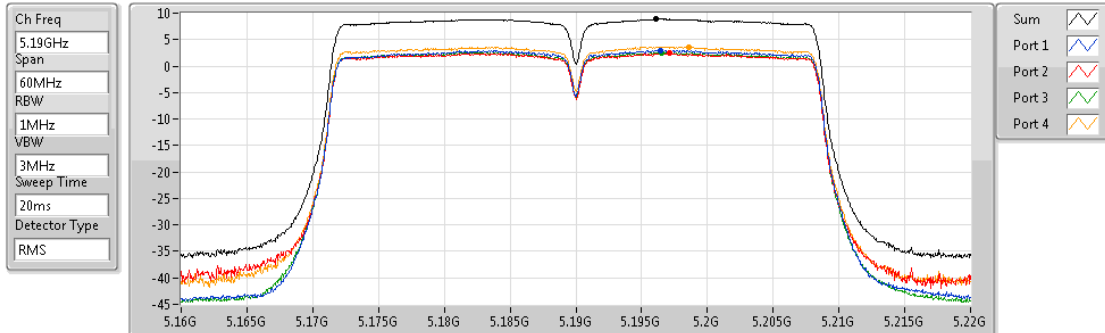




802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5190MHz

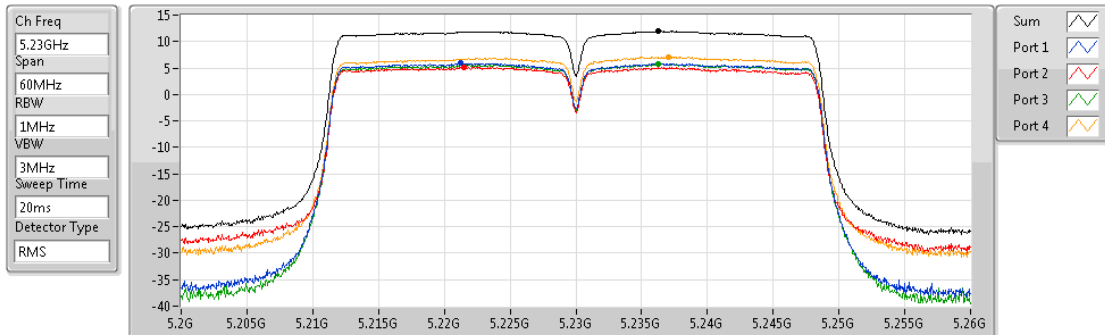


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.84	8.84	2.98	2.45	2.58	3.64

802.11ac VHT40_Nss1,(MCS0)_4TX

PSD

5230MHz

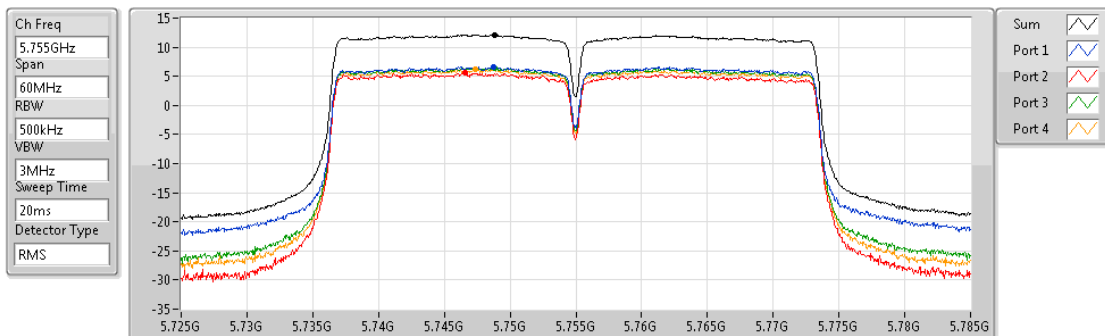


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.94	11.94	5.89	5.18	5.78	7.07

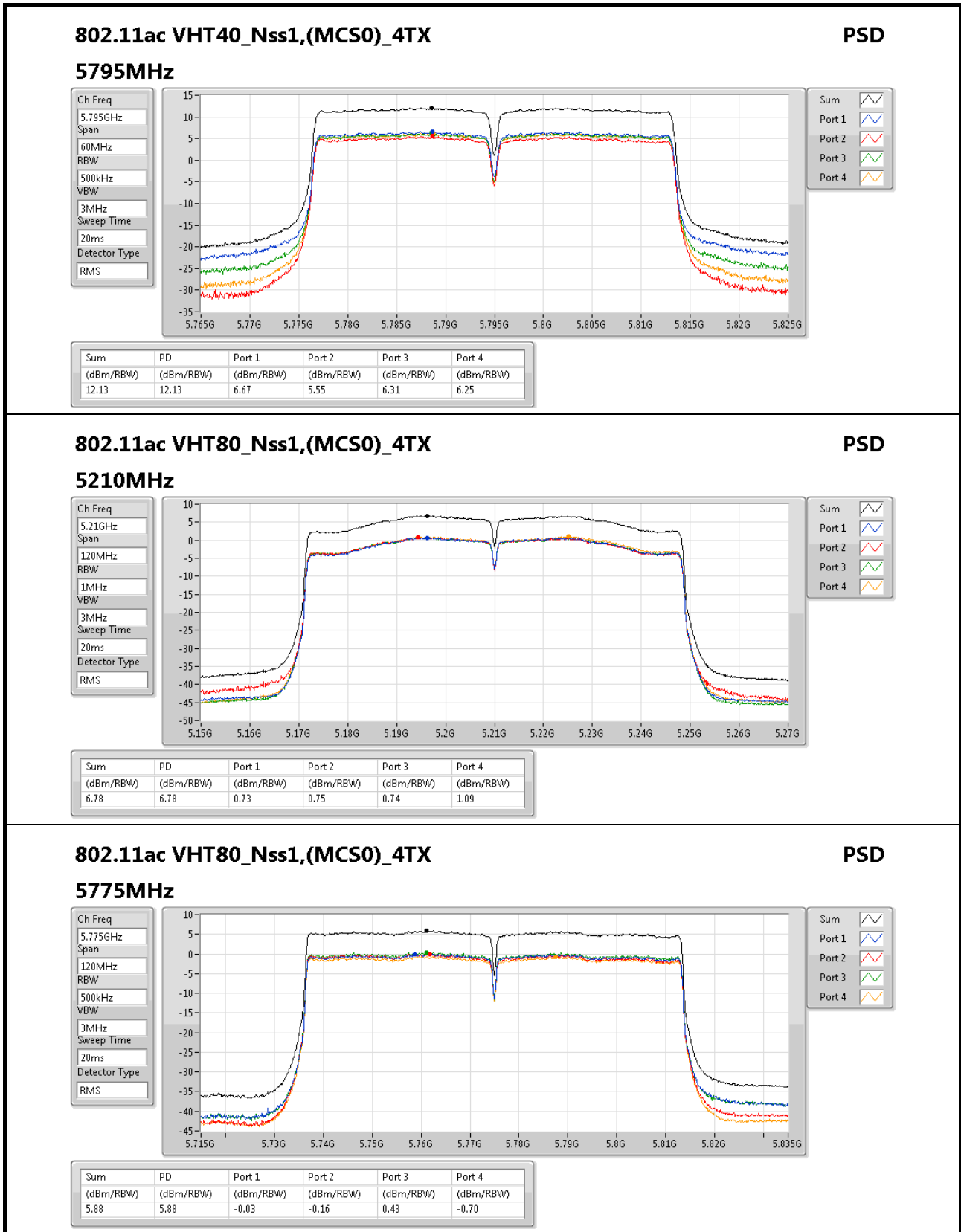
802.11ac VHT40_Nss1,(MCS0)_4TX

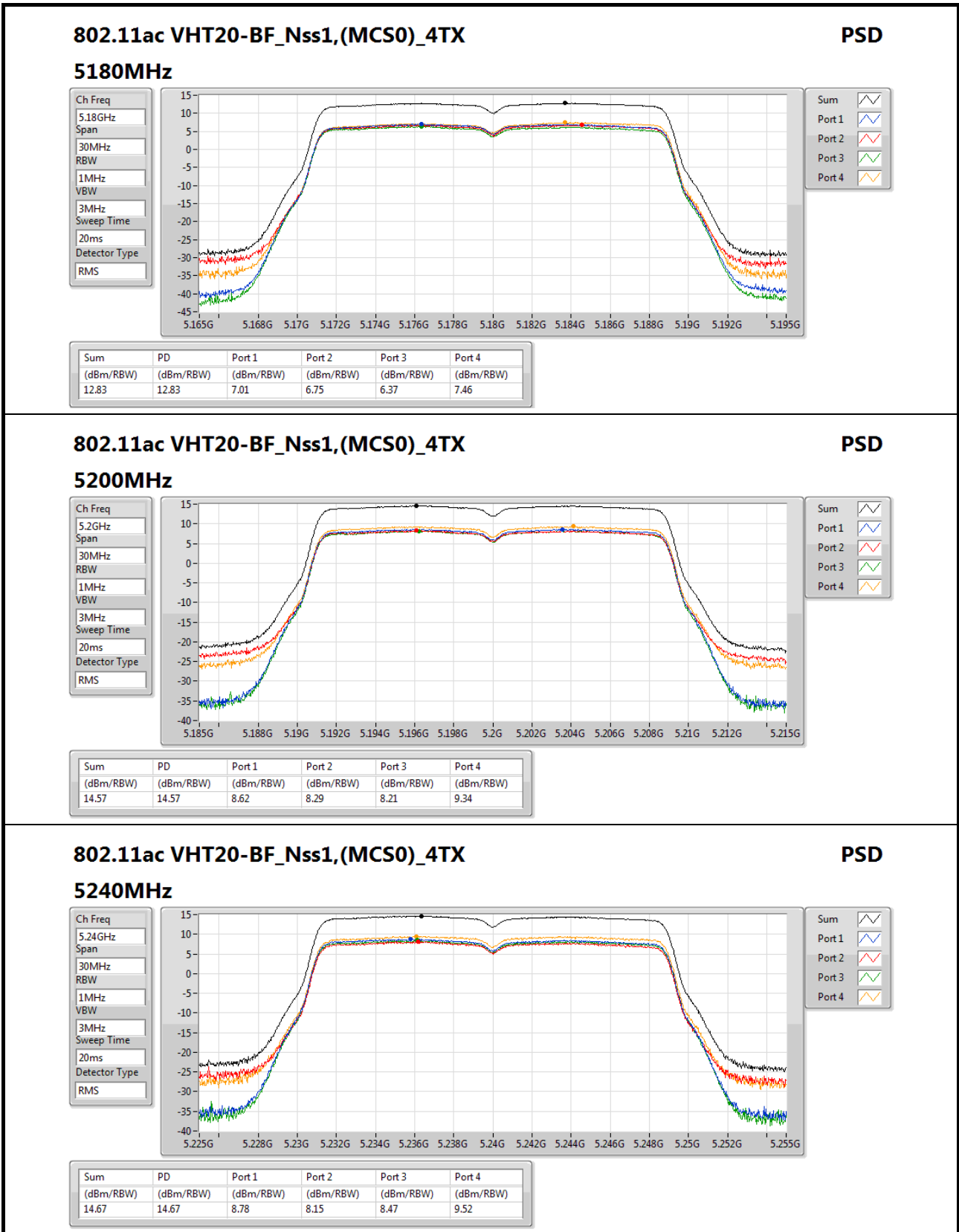
PSD

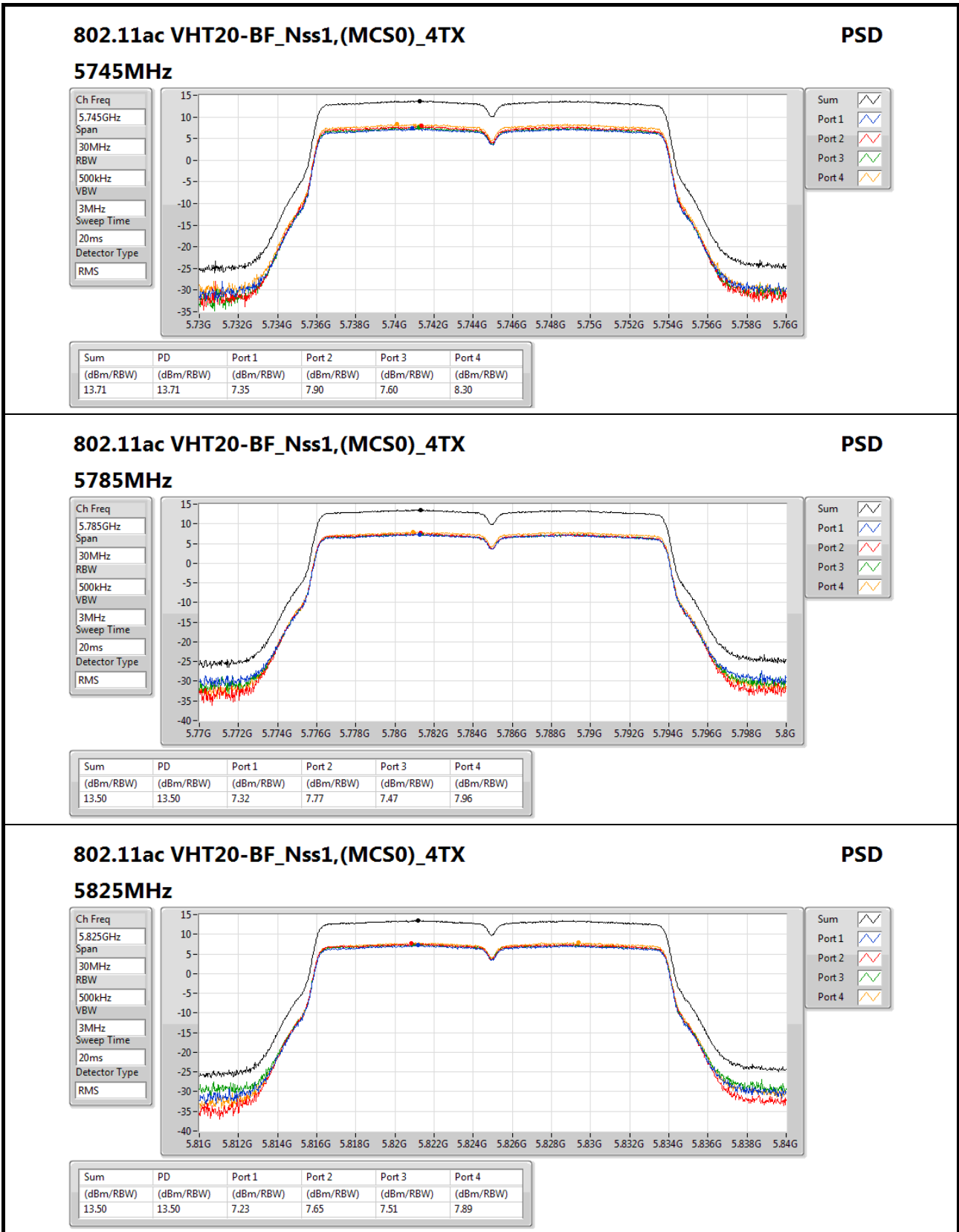
5755MHz

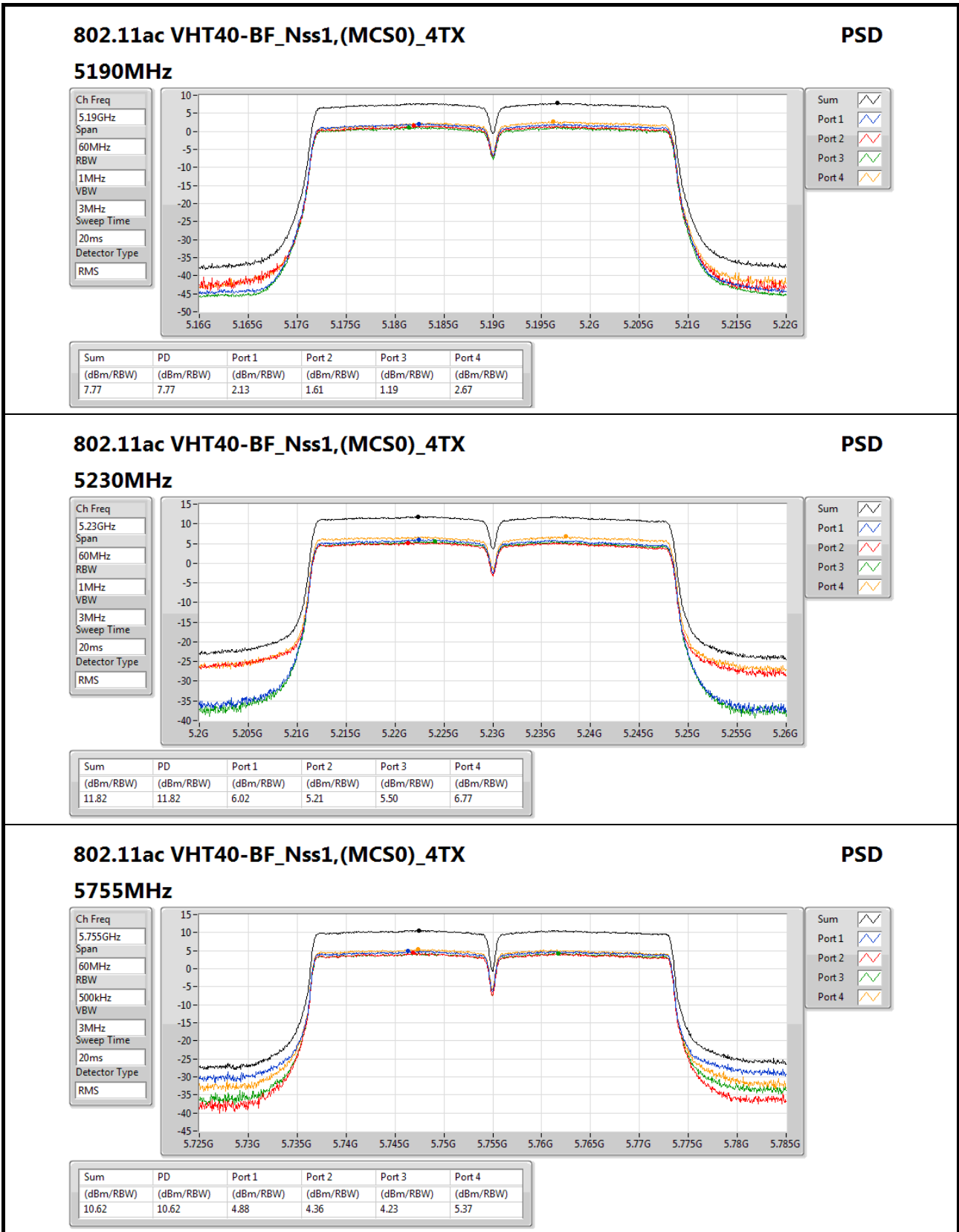


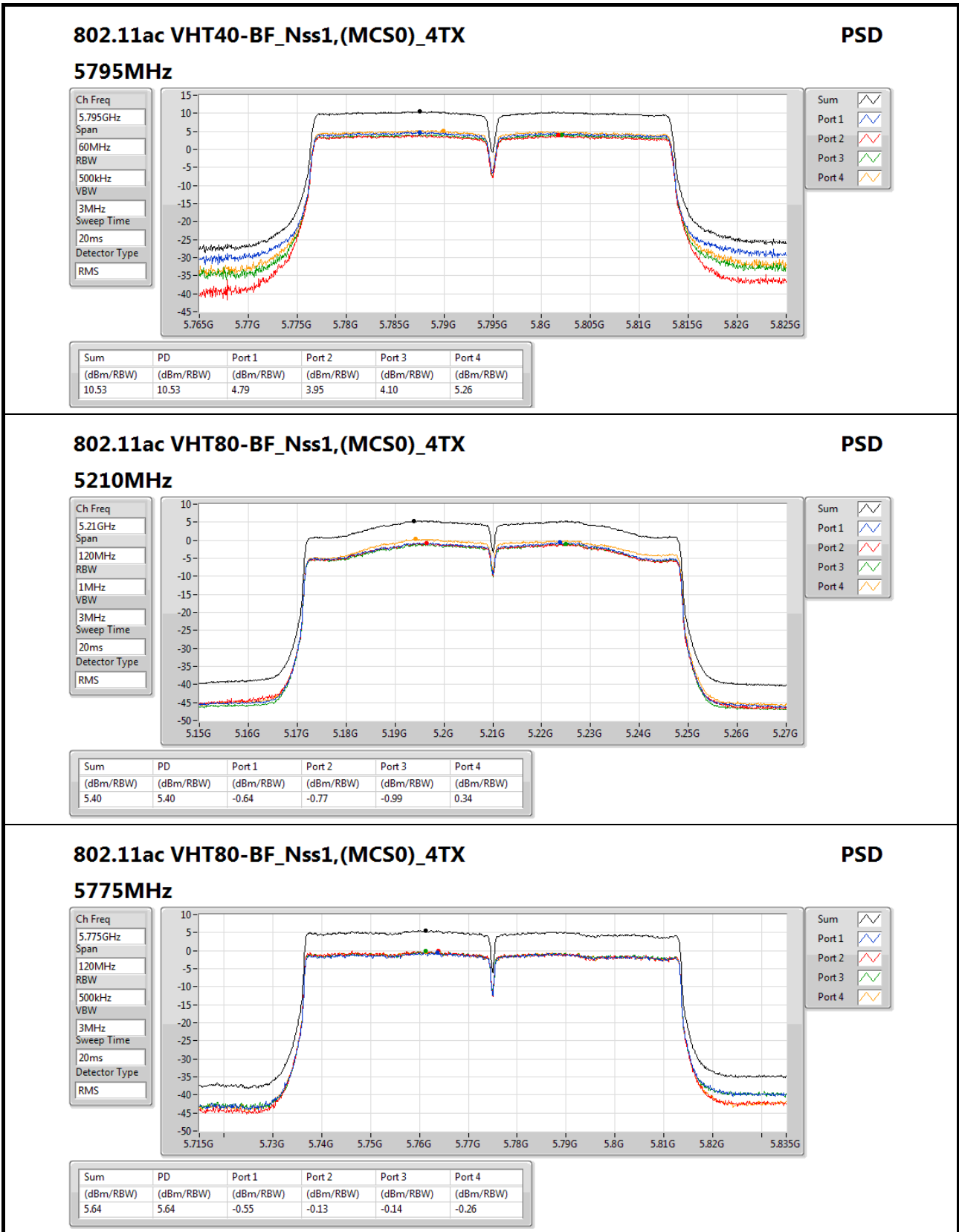
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.16	12.16	6.66	5.54	6.47	6.23







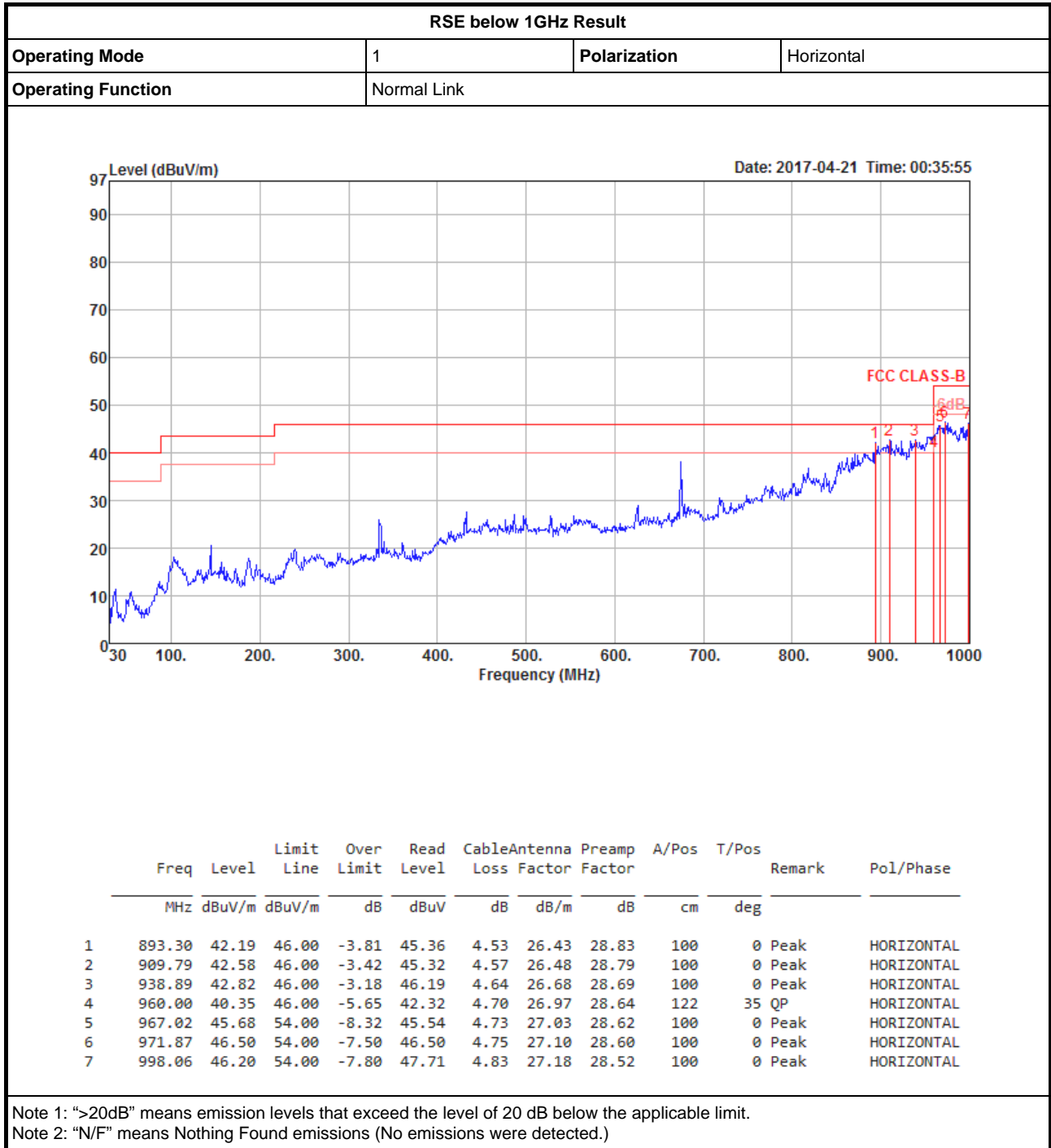






RSE below 1GHz Result

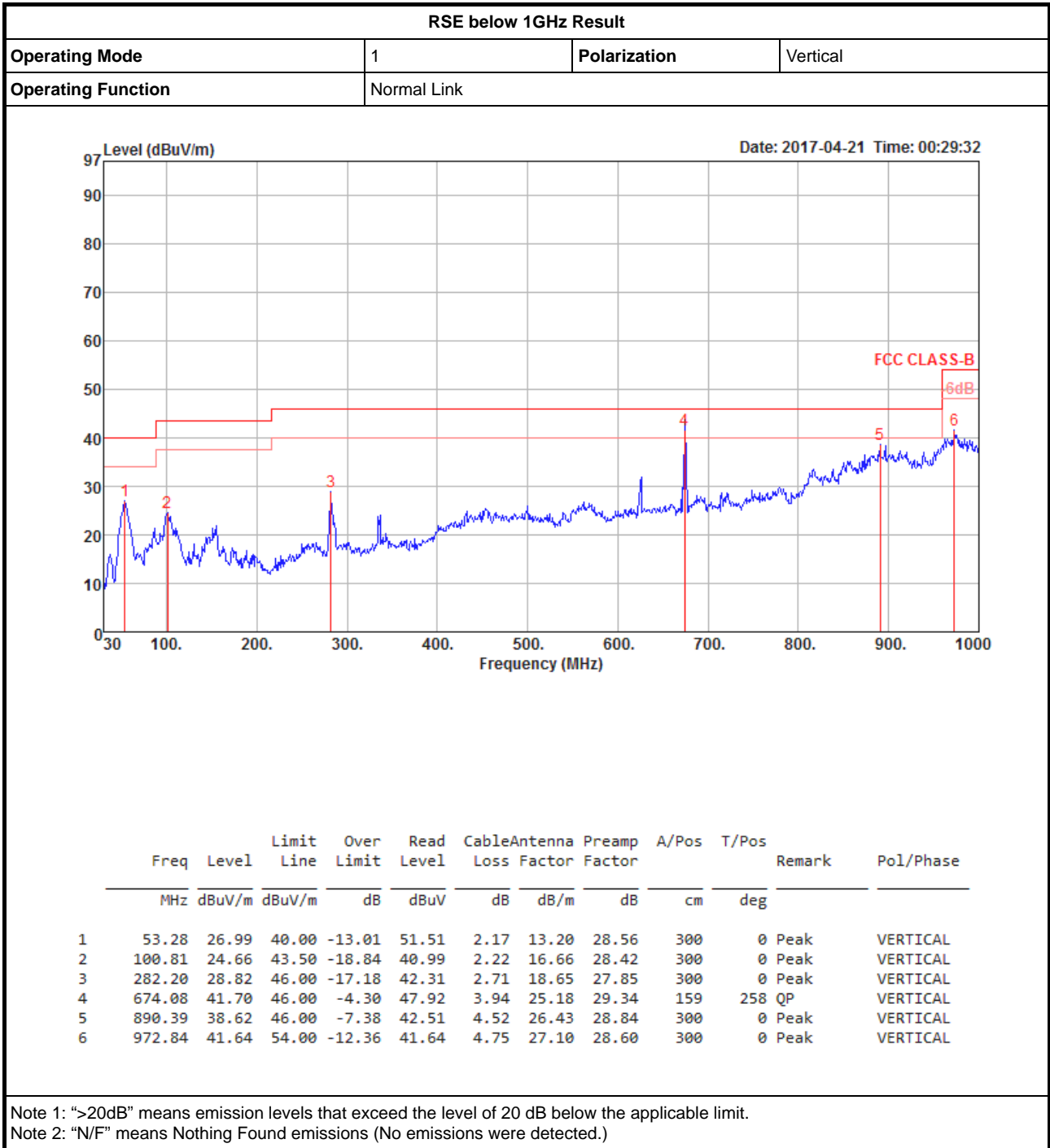
Appendix E.1





RSE below 1GHz Result

Appendix E.1



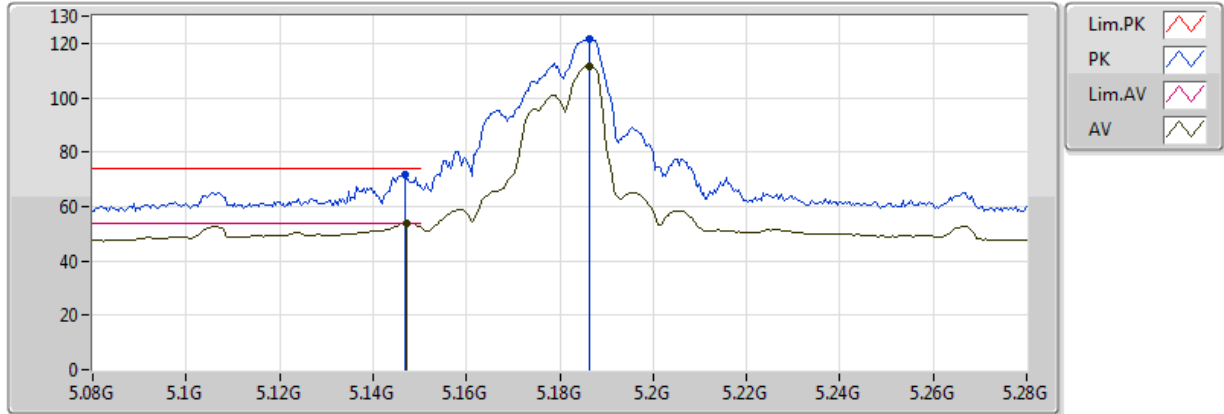


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11a_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5.725-5.85GHz	Pass	PK	5.649G	68.18	68.20	-0.02	6.21	3	V	141	1.50	-

802.11a_(6Mbps)_4TX

5180MHz_TX

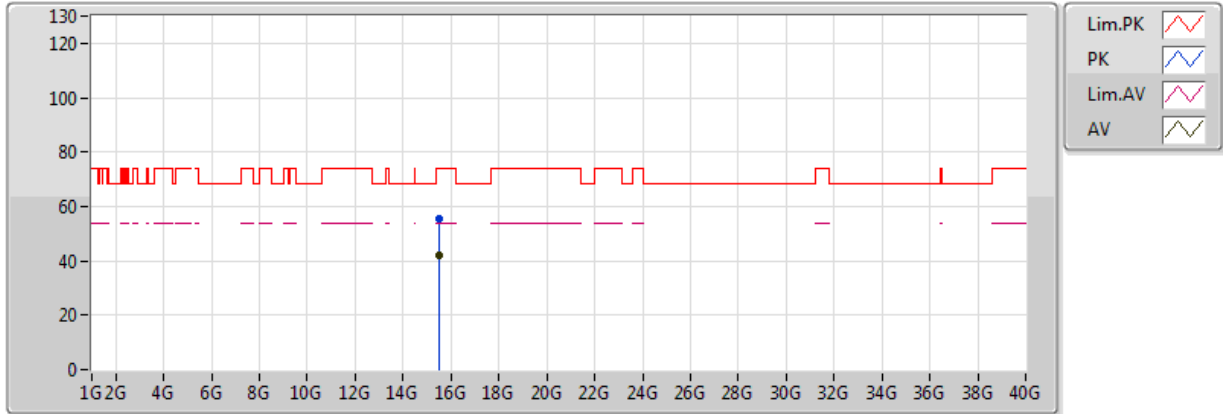


20170323
EUT_Z_4TX
Non-TXBF
Setting 82
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1472G	53.92	54.00	-0.08	4.77	3	V	307	2.07	-
AV	5.1864G	111.56	Inf	-Inf	4.90	3	V	307	2.07	-
PK	5.1468G	71.87	74.00	-2.13	4.76	3	V	307	2.07	-
PK	5.1864G	121.74	Inf	-Inf	4.90	3	V	307	2.07	-

802.11a_(6Mbps)_4TX

5180MHz_TX

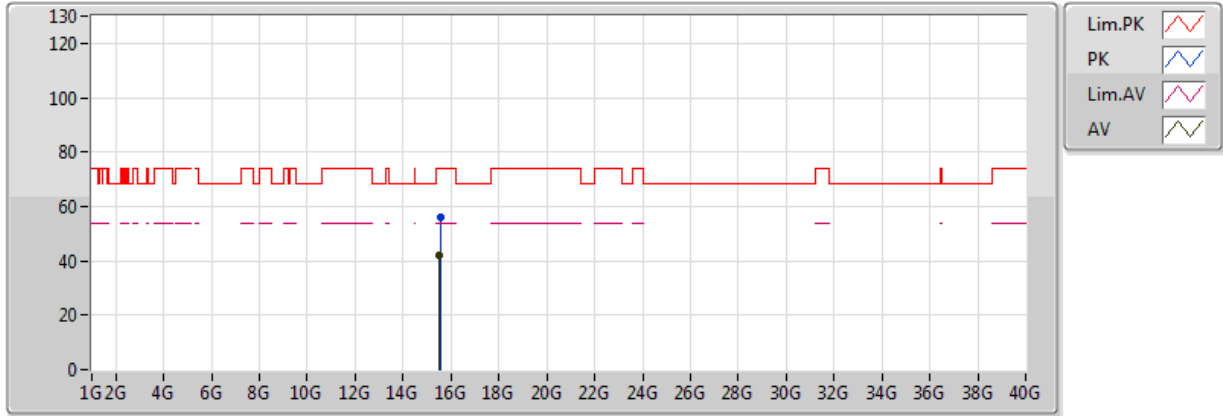


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 82
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53712G	41.91	54.00	-12.09	15.73	3	V	82	1.13	-
PK	15.53168G	55.52	74.00	-18.48	15.74	3	V	82	1.13	-

802.11a_(6Mbps)_4TX

5180MHz_TX

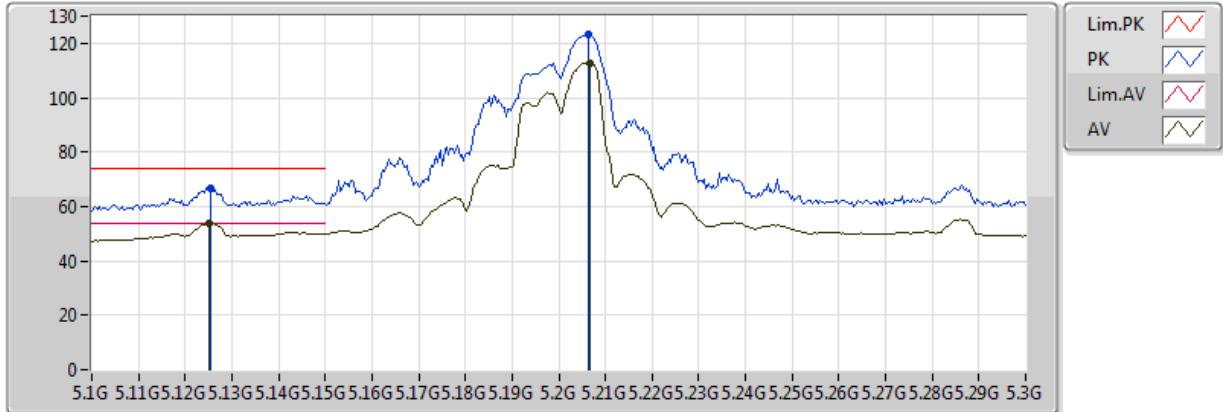


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 82
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5316G	42.05	54.00	-11.95	15.74	3	H	201	1.42	-
PK	15.54636G	56.23	74.00	-17.77	15.73	3	H	201	1.42	-

802.11a_(6Mbps)_4TX

5200MHz_TX

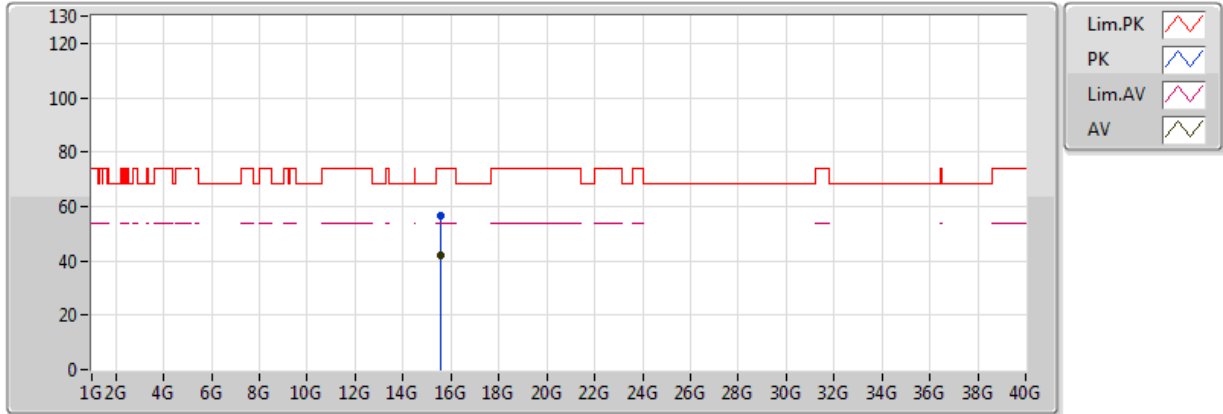


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 88
 04-J-5-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1252G	53.84	54.00	-0.16	4.69	3	V	309	1.98	-
AV	5.2068G	112.89	Inf	-Inf	4.96	3	V	309	1.98	-
PK	5.1256G	66.80	74.00	-7.20	4.69	3	V	309	1.98	-
PK	5.2064G	123.29	Inf	-Inf	4.96	3	V	309	1.98	-

802.11a_(6Mbps)_4TX

5200MHz_TX

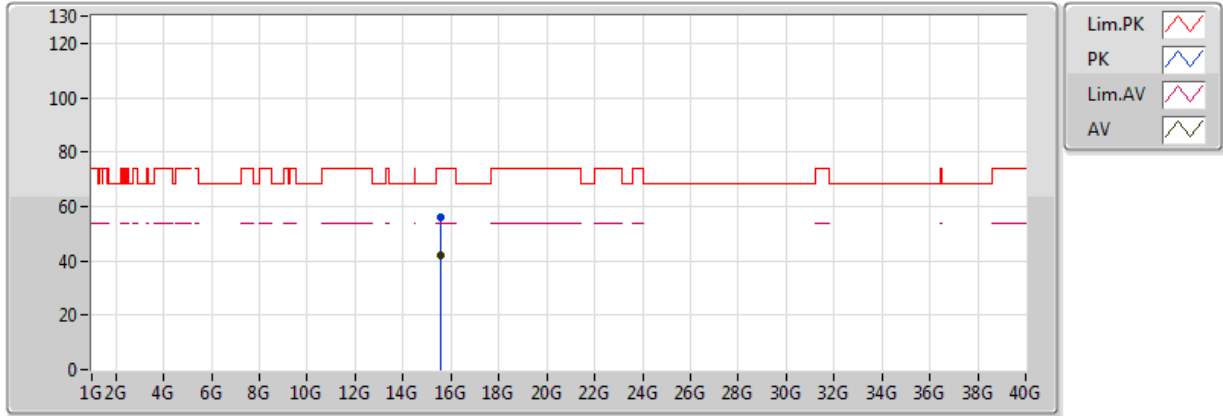


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 88
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5936G	41.86	54.00	-12.14	15.70	3	V	168	2.07	-
PK	15.59172G	56.37	74.00	-17.63	15.70	3	V	168	2.07	-

802.11a_(6Mbps)_4TX

5200MHz_TX

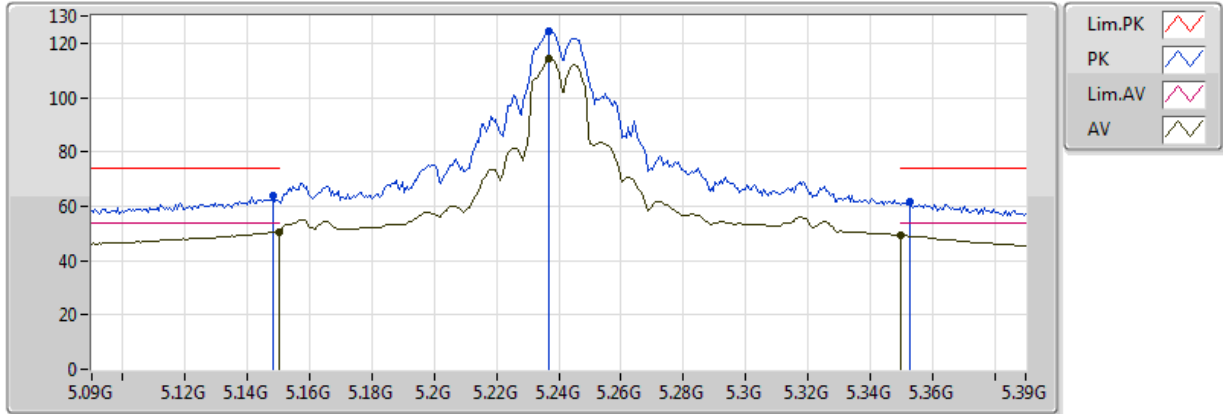


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 88
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59728G	41.87	54.00	-12.13	15.70	3	H	163	1.54	-
PK	15.59504G	56.27	74.00	-17.73	15.70	3	H	163	1.54	-

802.11a_(6Mbps)_4TX

5240MHz_TX

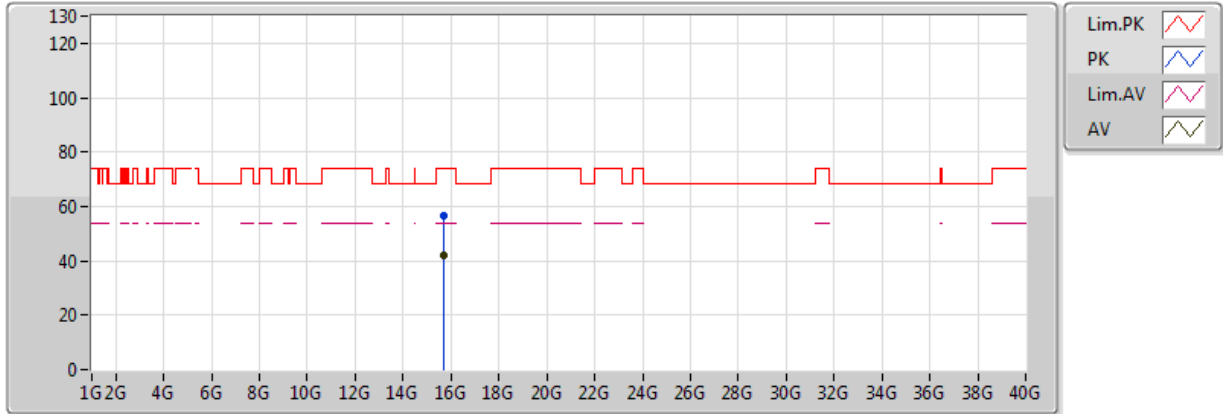


20170323
EUT_Z_4TX
Non-TXBF
Setting 99
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	50.42	54.00	-3.58	4.77	3	V	34	1.79	-
AV	5.237G	114.11	Inf	-Inf	4.99	3	V	34	1.79	-
AV	5.350005G	49.27	54.00	-4.73	5.10	3	V	34	1.79	-
PK	5.1482G	64.08	74.00	-9.92	4.77	3	V	34	1.79	-
PK	5.237G	124.31	Inf	-Inf	4.99	3	V	34	1.79	-
PK	5.3528G	61.54	74.00	-12.46	5.10	3	V	34	1.79	-

802.11a_(6Mbps)_4TX

5240MHz_TX

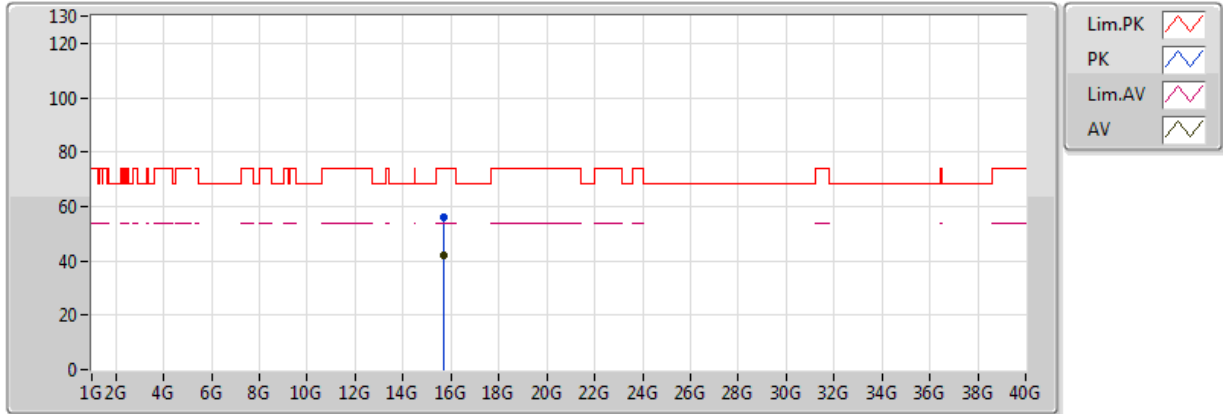


20170323
EUT_Z_4TX
Non-TXBF
Setting 99
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.714G	42.07	54.00	-11.93	15.64	3	V	5	2.48	-
PK	15.7116G	56.36	74.00	-17.64	15.64	3	V	5	2.48	-

802.11a_(6Mbps)_4TX

5240MHz_TX

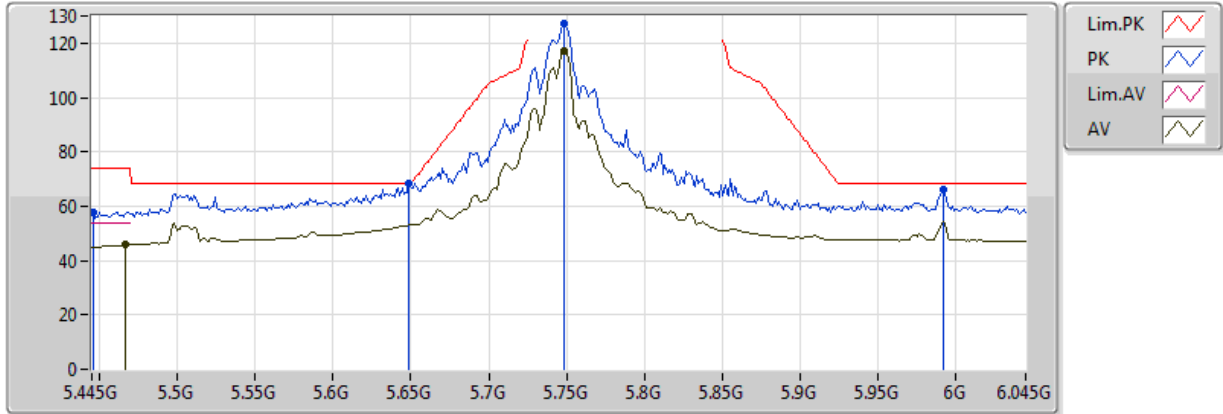


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 99
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71024G	42.11	54.00	-11.89	15.64	3	H	122	2.06	-
PK	15.718G	55.90	74.00	-18.10	15.64	3	H	122	2.06	-

802.11a_(6Mbps)_4TX

5745MHz_TX

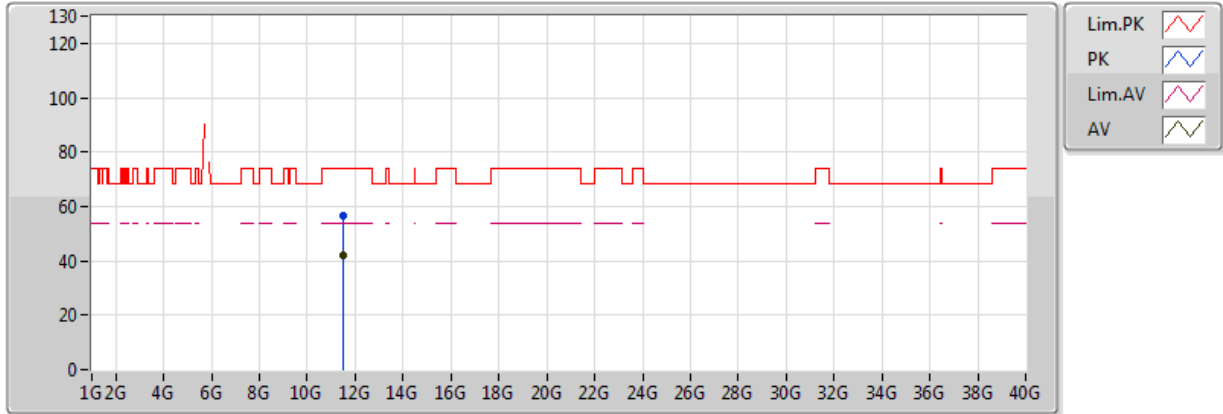


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4666G	45.68	54.00	-8.32	5.45	3	V	141	1.50	-
AV	5.7486G	117.07	Inf	-Inf	6.33	3	V	141	1.50	-
PK	5.4462G	57.96	74.00	-16.04	5.35	3	V	141	1.50	-
PK	5.649G	68.18	68.20	-0.02	6.21	3	V	141	1.50	-
PK	5.7486G	127.16	Inf	-Inf	6.33	3	V	141	1.50	-
PK	5.9922G	66.10	68.20	-2.10	7.50	3	V	141	1.50	-

802.11a_(6Mbps)_4TX

5745MHz_TX

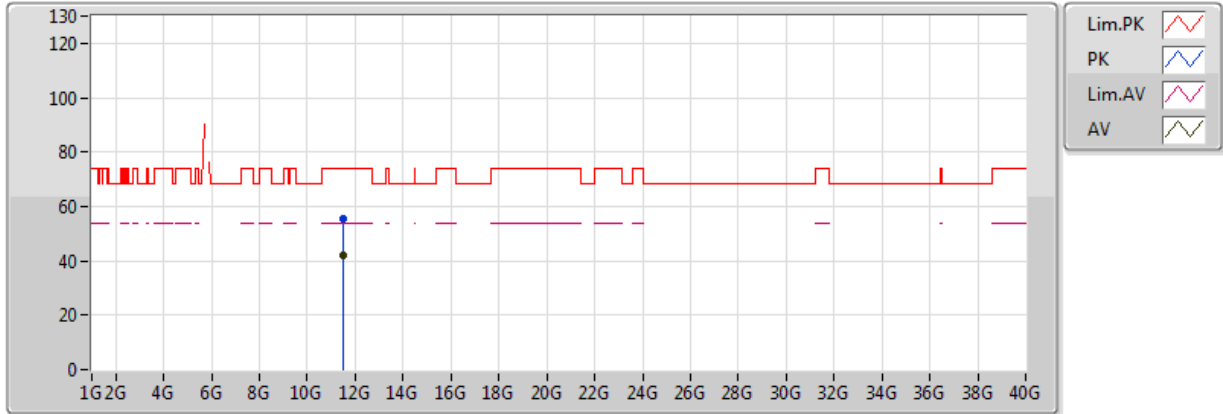


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48224G	41.78	54.00	-12.22	14.75	3	V	189	1.56	-
PK	11.49232G	56.35	74.00	-17.65	14.75	3	V	189	1.56	-

802.11a_(6Mbps)_4TX

5745MHz_TX

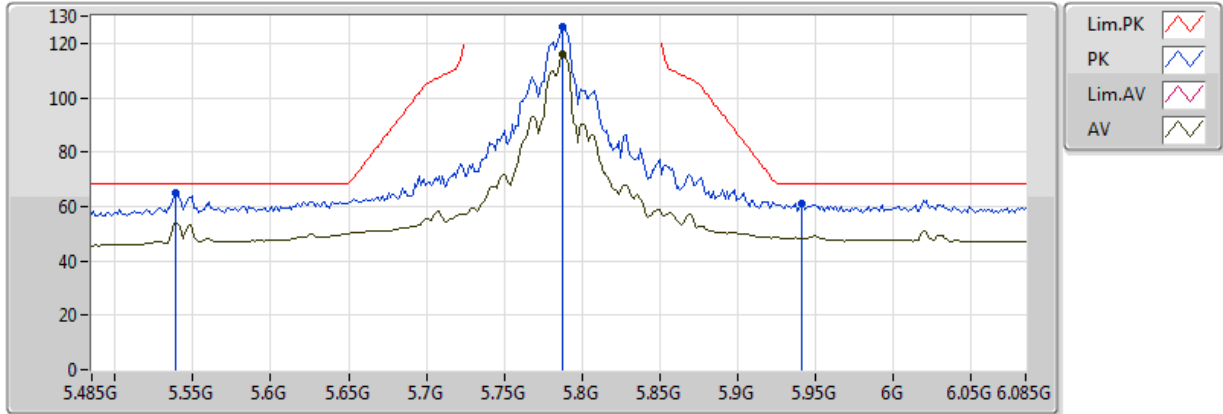


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48224G	41.77	54.00	-12.23	14.75	3	H	111	2.27	-
PK	11.484G	55.67	74.00	-18.33	14.75	3	H	111	2.27	-

802.11a_(6Mbps)_4TX

5785MHz_TX

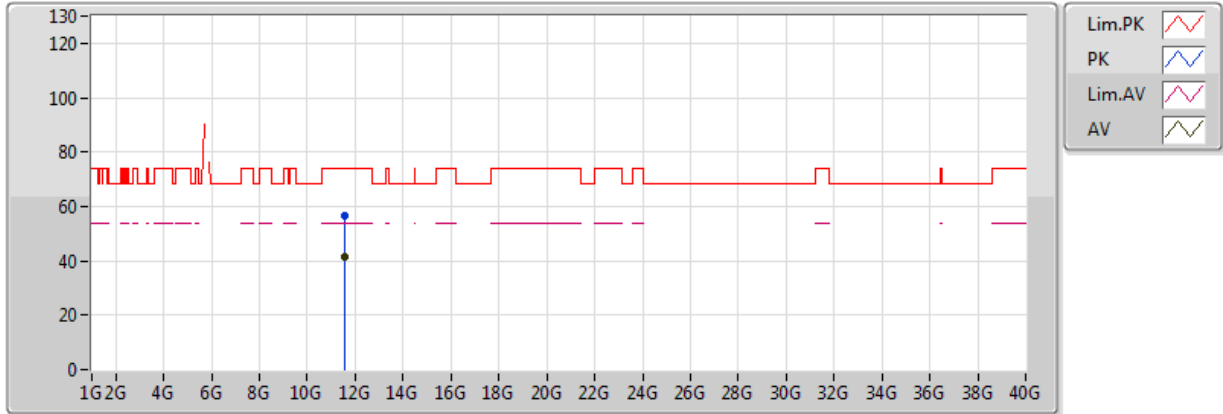


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7874G	116.06	Inf	-Inf	6.37	3	V	143	1.50	-
PK	5.539G	65.05	68.20	-3.15	5.81	3	V	143	1.50	-
PK	5.7874G	126.14	Inf	-Inf	6.37	3	V	143	1.50	-
PK	5.941G	60.85	68.20	-7.35	7.21	3	V	143	1.50	-

802.11a_(6Mbps)_4TX

5785MHz_TX

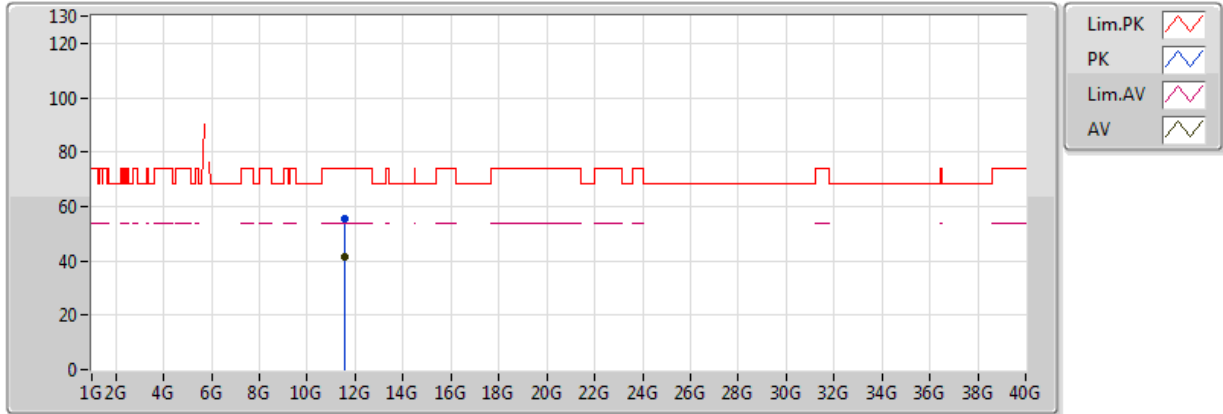


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.56316G	41.49	54.00	-12.51	14.77	3	V	171	1.49	-
PK	11.57864G	56.47	74.00	-17.53	14.77	3	V	171	1.49	-

802.11a_(6Mbps)_4TX

5785MHz_TX

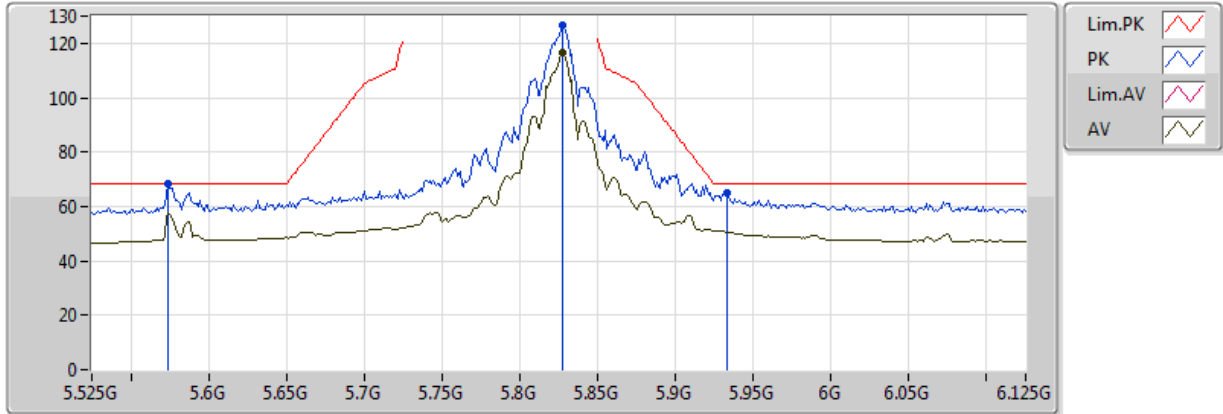


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.56244G	41.51	54.00	-12.49	14.76	3	H	177	1.44	-
PK	11.56468G	55.41	74.00	-18.59	14.77	3	H	177	1.44	-

802.11a_(6Mbps)_4TX

5825MHz_TX

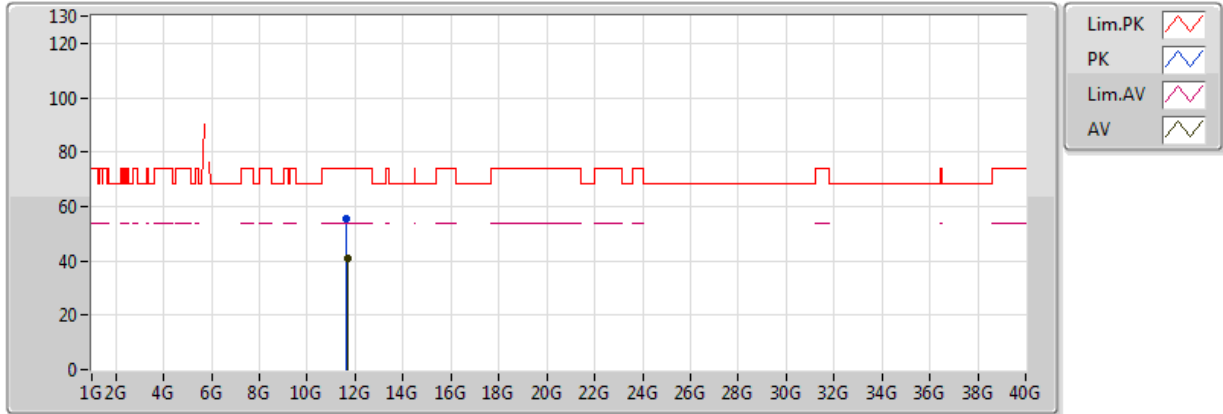


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 103
 04-J-5-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8274G	116.52	Inf	-Inf	6.55	3	V	87	1.93	-
PK	5.5742G	68.16	68.20	-0.04	6.01	3	V	87	1.93	-
PK	5.8274G	126.82	Inf	-Inf	6.55	3	V	87	1.93	-
PK	5.933G	64.93	68.20	-3.27	7.16	3	V	87	1.93	-

802.11a_(6Mbps)_4TX

5825MHz_TX

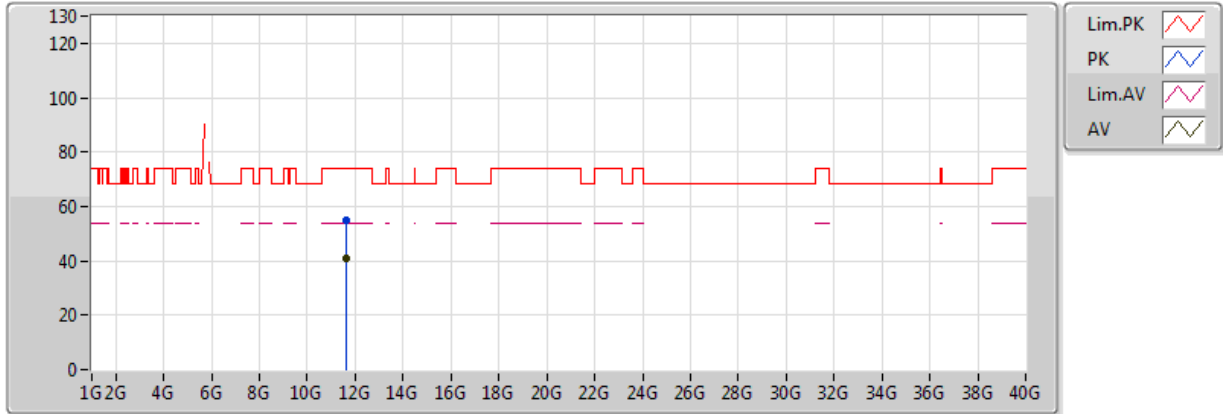


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 103
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6572G	41.05	54.00	-12.95	14.79	3	V	323	1.80	-
PK	11.65608G	55.21	74.00	-18.79	14.79	3	V	323	1.80	-

802.11a_(6Mbps)_4TX

5825MHz_TX

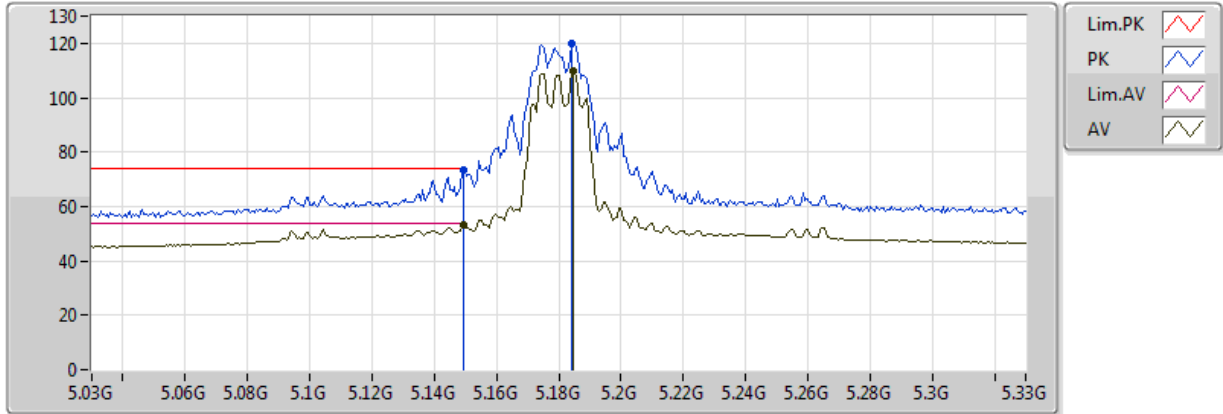


20170323
 EUT_Z_4TX
 Non-TXBF
 Setting 103
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65572G	41.07	54.00	-12.93	14.79	3	H	350	2.23	-
PK	11.64556G	55.13	74.00	-18.87	14.78	3	H	350	2.23	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

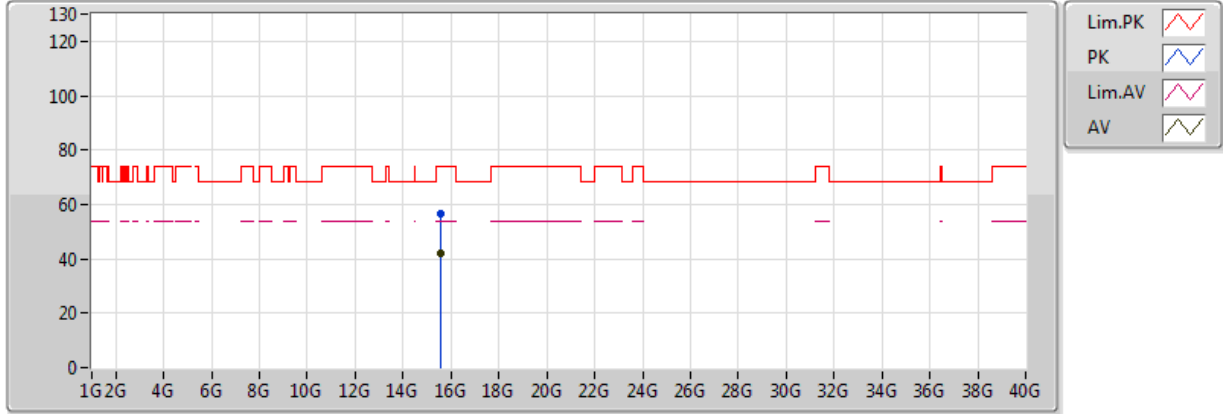


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 76
 04-M-1-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1494G	53.20	54.00	-0.80	4.77	3	V	285	1.84	-
AV	5.1848G	109.55	Inf	-Inf	4.90	3	V	285	1.84	-
PK	5.1494G	73.48	74.00	-0.52	4.77	3	V	285	1.84	-
PK	5.1842G	119.98	Inf	-Inf	4.89	3	V	285	1.84	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

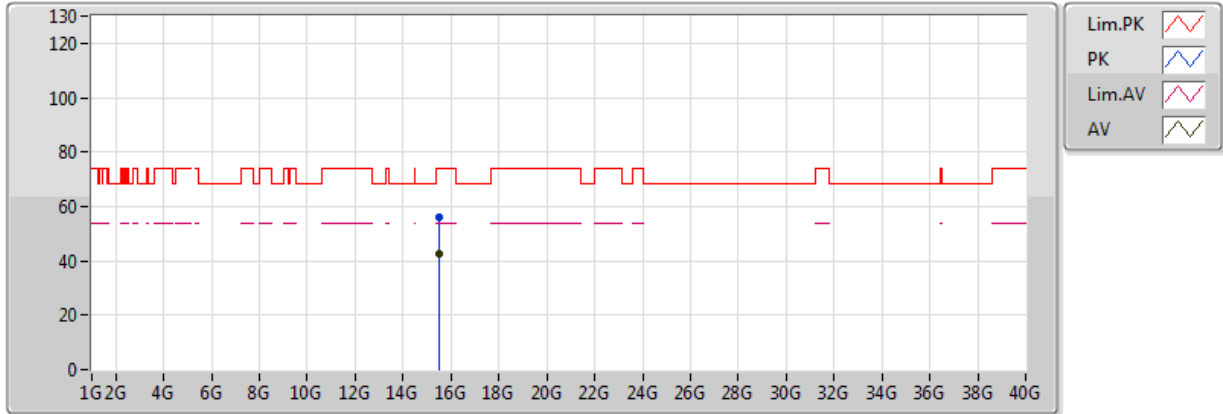


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 76
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5386G	42.27	54.00	-11.73	15.73	3	V	355	1.63	-
PK	15.545G	56.72	74.00	-17.28	15.73	3	V	355	1.63	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

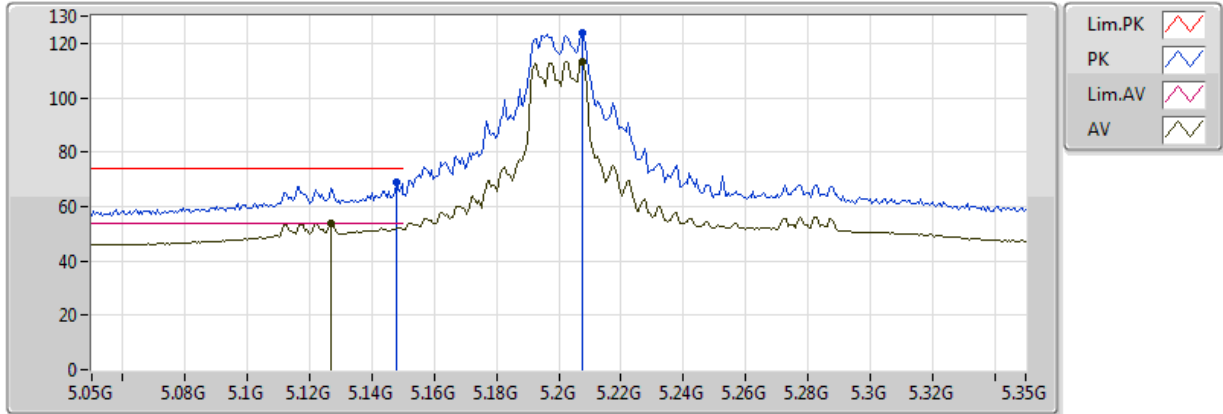


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 76
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53084G	42.31	54.00	-11.69	15.74	3	H	143	2.14	-
PK	15.5312G	56.27	74.00	-17.73	15.74	3	H	143	2.14	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

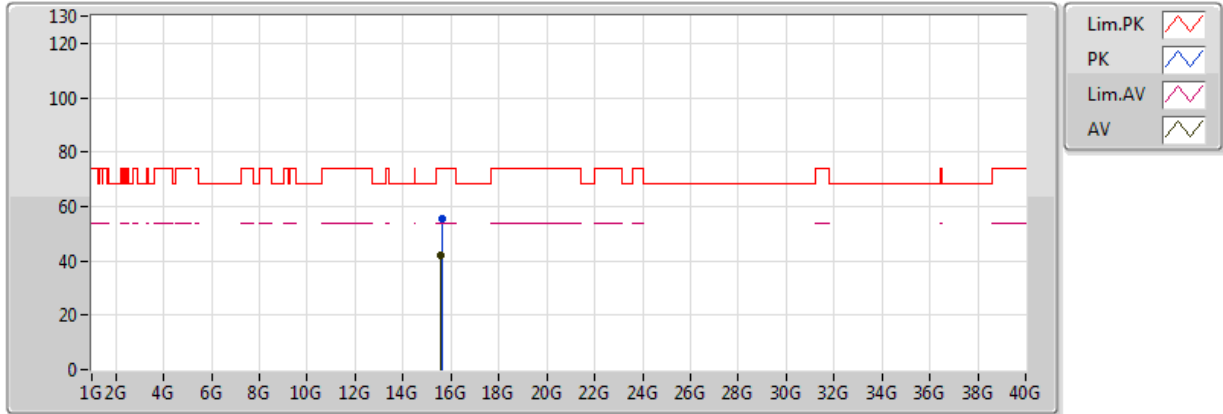


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 90
 04-M-1-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1268G	53.93	54.00	-0.07	4.69	3	V	360	2.41	-
AV	5.2078G	113.37	Inf	-Inf	4.96	3	V	360	2.41	-
PK	5.1478G	68.69	74.00	-5.31	4.77	3	V	360	2.41	-
PK	5.2078G	123.85	Inf	-Inf	4.96	3	V	360	2.41	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

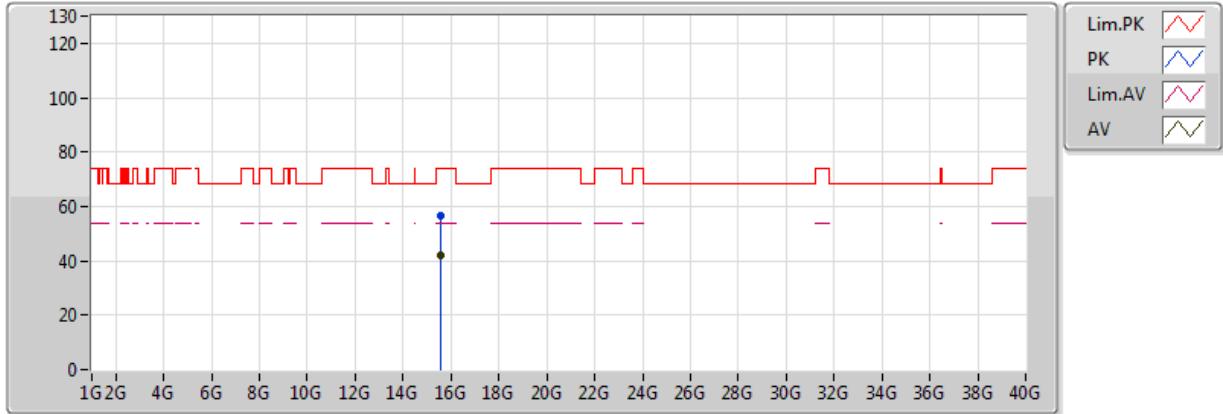


20170324
EUT_Z_4TX
Non-TXBF
Setting 90
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.594G	42.09	54.00	-11.91	15.70	3	V	71	1.69	-
PK	15.60436G	55.63	74.00	-18.37	15.70	3	V	71	1.69	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

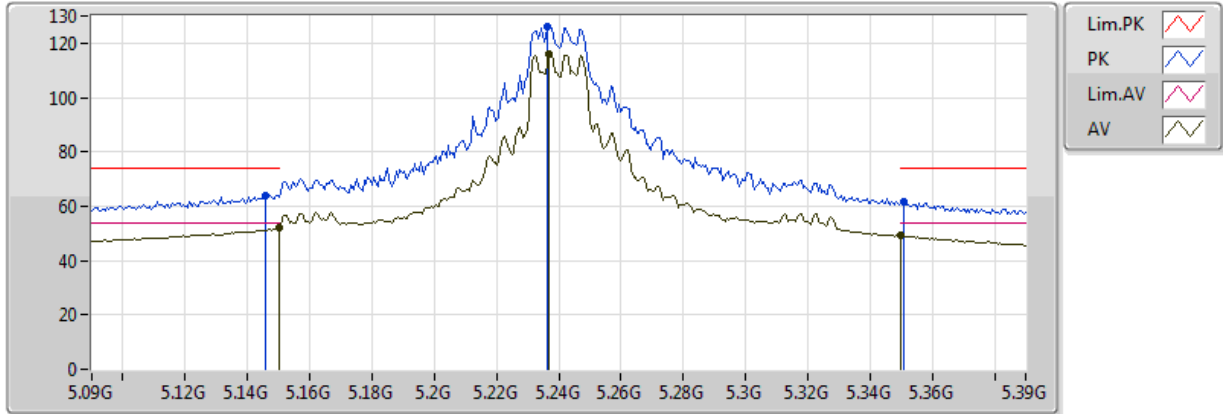


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 90
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59052G	42.13	54.00	-11.87	15.71	3	H	301	1.27	-
PK	15.6002G	56.39	74.00	-17.61	15.70	3	H	301	1.27	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

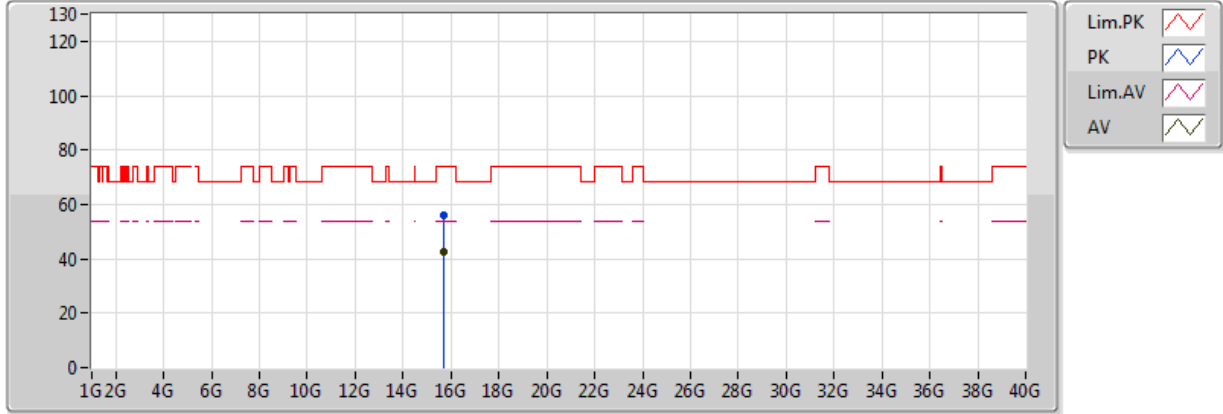


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 100
 04-M-1-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	51.85	54.00	-2.15	4.77	3	V	360	2.41	-
AV	5.237G	116.06	Inf	-Inf	4.99	3	V	360	2.41	-
AV	5.350005G	49.12	54.00	-4.88	5.10	3	V	360	2.41	-
PK	5.1458G	63.78	74.00	-10.22	4.76	3	V	360	2.41	-
PK	5.2364G	125.97	Inf	-Inf	4.99	3	V	360	2.41	-
PK	5.351G	61.41	74.00	-12.59	5.10	3	V	360	2.41	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

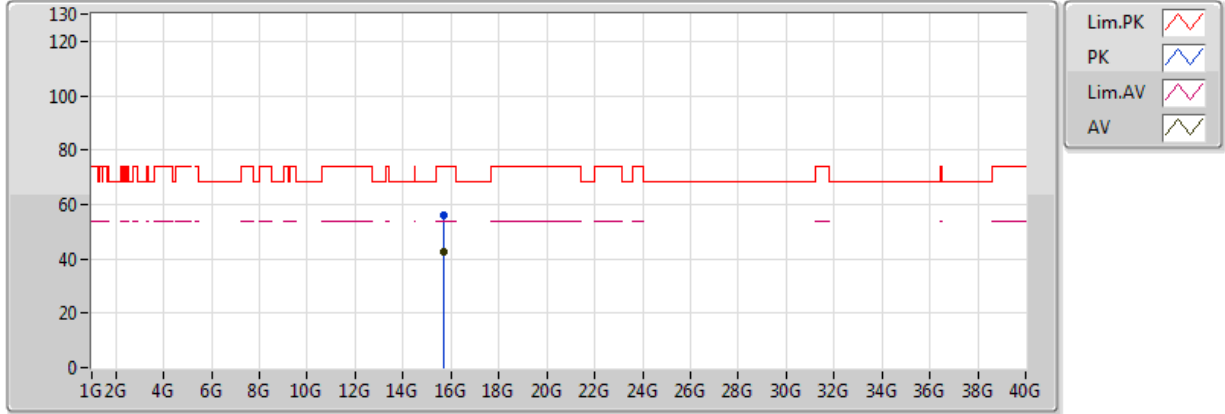


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 100
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71204G	42.35	54.00	-11.65	15.64	3	V	296	1.69	-
PK	15.7144G	55.97	74.00	-18.03	15.64	3	V	296	1.69	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

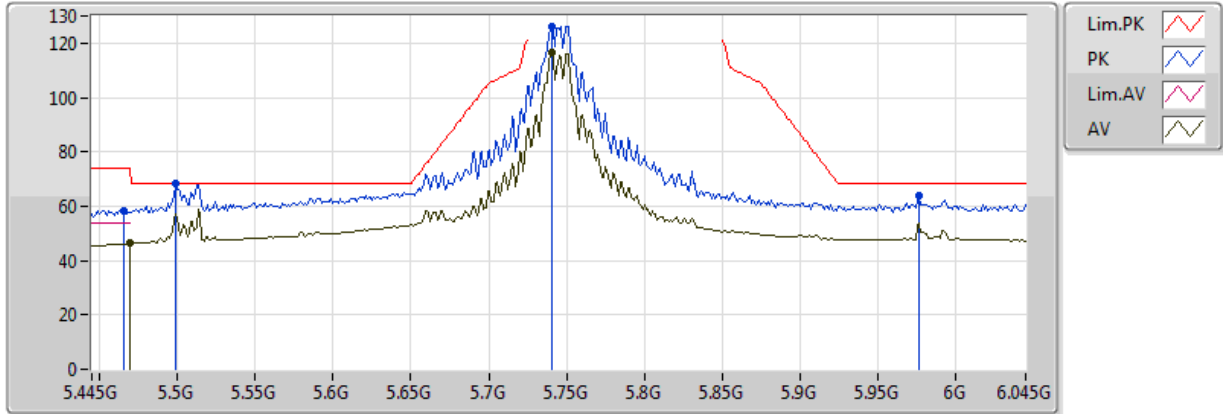


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 100
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71G	42.34	54.00	-11.66	15.64	3	H	76	1.84	-
PK	15.71756G	56.18	74.00	-17.82	15.64	3	H	76	1.84	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_TX

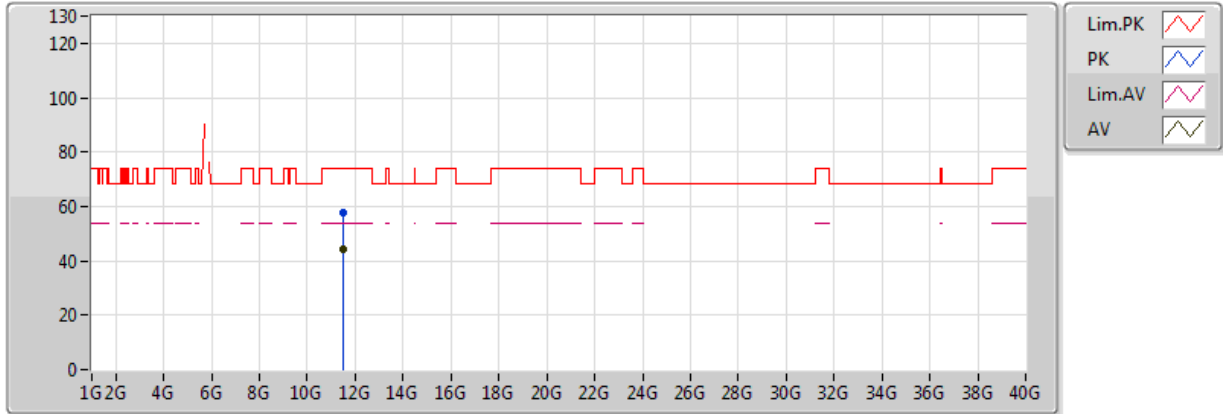


20170324
EUT_Z_4TX
Non-TXBF
Setting 106
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.469G	46.27	54.00	-7.73	5.46	3	V	270	1.50	-
AV	5.7402G	116.70	Inf	-Inf	6.32	3	V	270	1.50	-
PK	5.4654G	58.49	74.00	-15.51	5.44	3	V	270	1.50	-
PK	5.499G	68.14	68.20	-0.06	5.60	3	V	270	1.50	-
PK	5.7402G	126.20	Inf	-Inf	6.32	3	V	270	1.50	-
PK	5.9766G	63.62	68.20	-4.58	7.41	3	V	270	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_TX

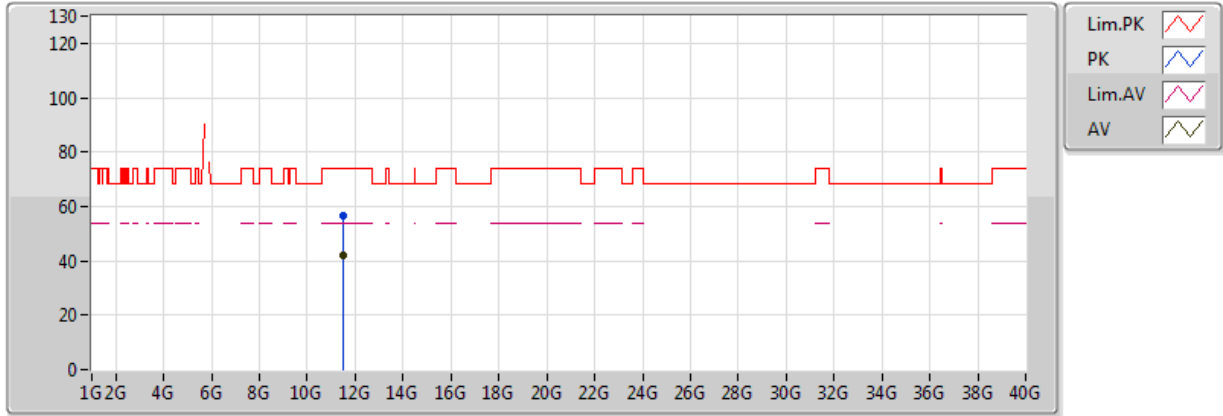


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49G	44.23	54.00	-9.77	14.75	3	V	84	1.00	-
PK	11.48476G	57.79	74.00	-16.21	14.75	3	V	84	1.00	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_TX

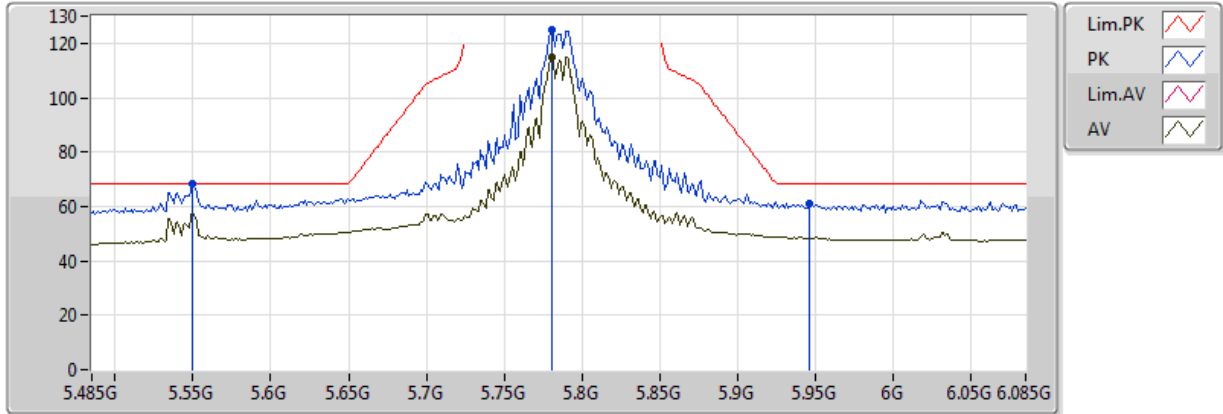


20170324
EUT_Z_4TX
Non-TXBF
Setting 106
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48184G	42.04	54.00	-11.96	14.75	3	H	140	1.65	-
PK	11.4956G	56.46	74.00	-17.54	14.75	3	H	140	1.65	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_TX

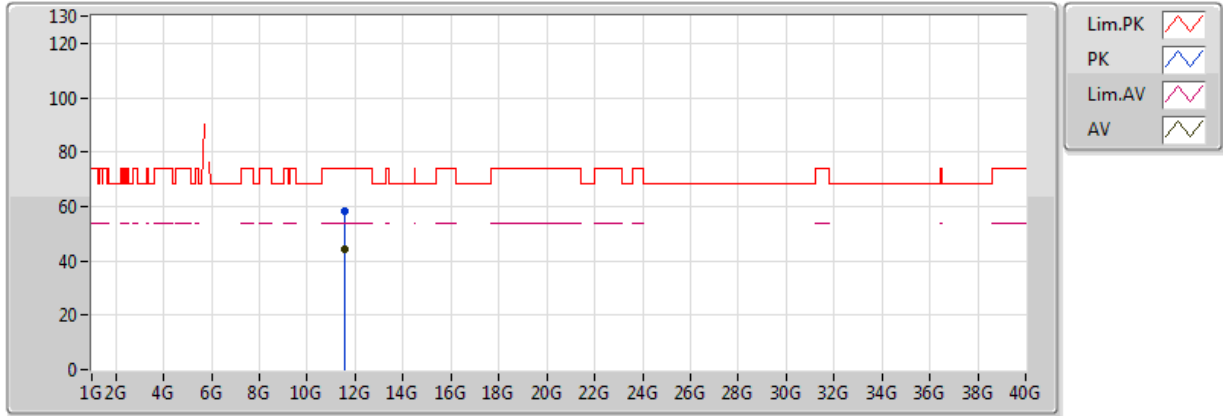


20170324
EUT_Z_4TX
Non-TXBF
Setting 106
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7802G	114.87	Inf	-Inf	6.37	3	V	268	1.50	-
PK	5.5498G	68.18	68.20	-0.02	5.87	3	V	268	1.50	-
PK	5.7802G	124.92	Inf	-Inf	6.37	3	V	268	1.50	-
PK	5.9458G	60.99	68.20	-7.21	7.24	3	V	268	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_TX

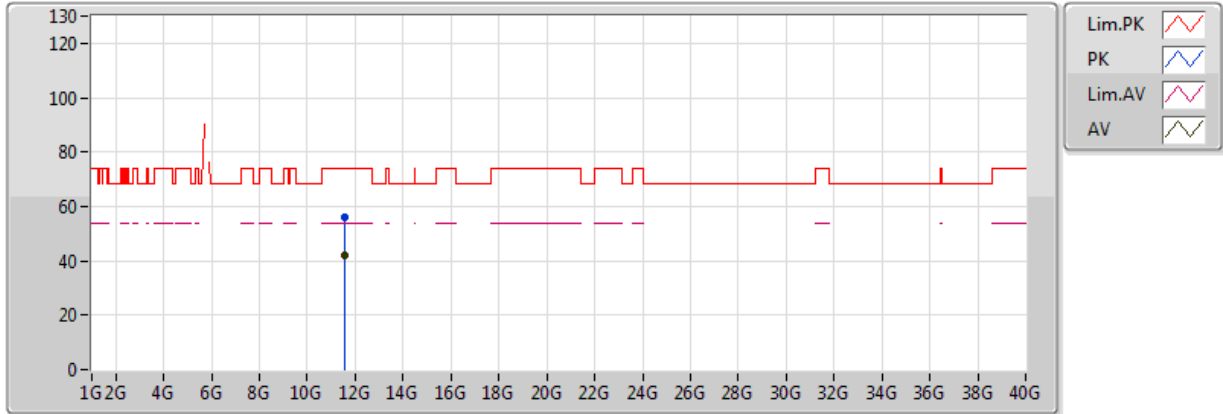


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57144G	44.11	54.00	-9.89	14.77	3	V	267	1.29	-
PK	11.57132G	58.48	74.00	-15.52	14.77	3	V	267	1.29	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_TX

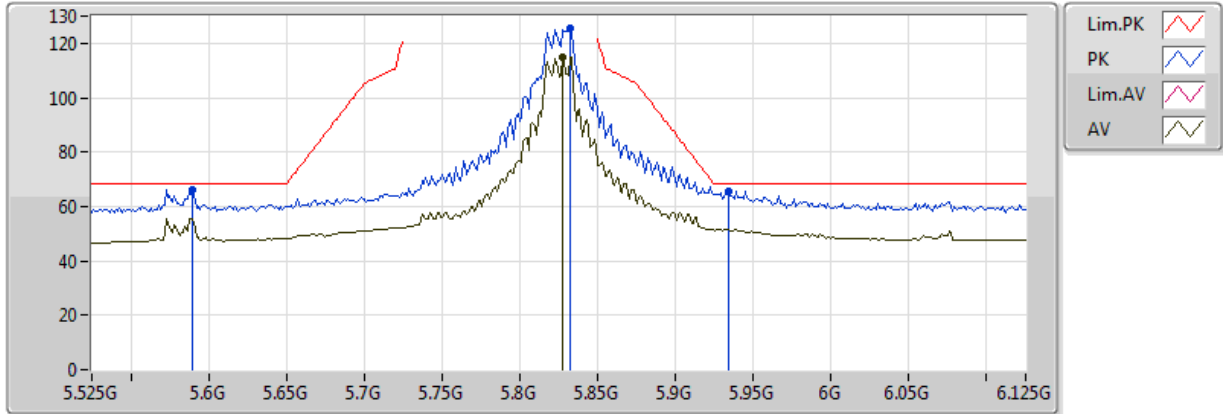


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57724G	42.05	54.00	-11.95	14.77	3	H	20	1.55	-
PK	11.57504G	55.86	74.00	-18.14	14.77	3	H	20	1.55	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_TX

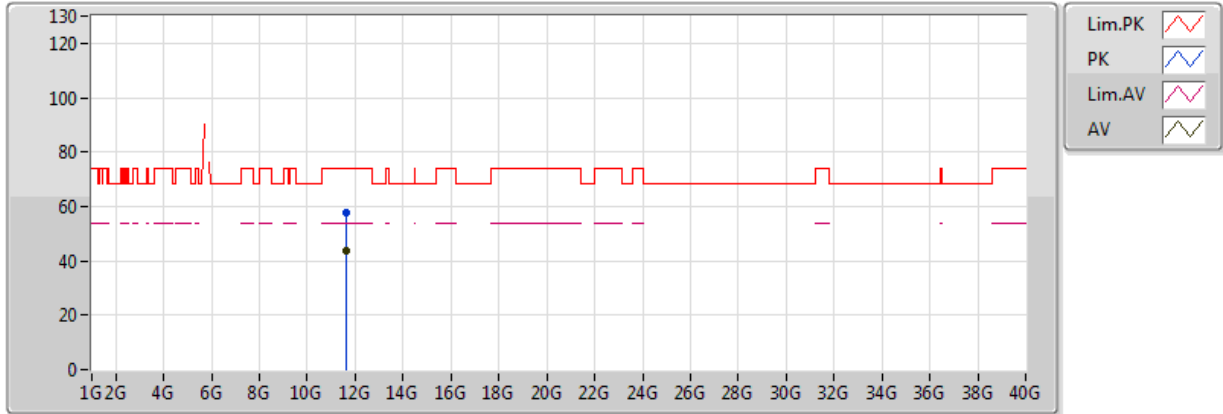


20170324
EUT_Z_4TX
Non-TXBF
Setting 106
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8274G	114.92	Inf	-Inf	6.55	3	V	143	1.81	-
PK	5.5898G	66.16	68.20	-2.04	6.09	3	V	143	1.81	-
PK	5.8322G	125.32	Inf	-Inf	6.58	3	V	143	1.81	-
PK	5.9342G	65.79	68.20	-2.41	7.17	3	V	143	1.81	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_TX

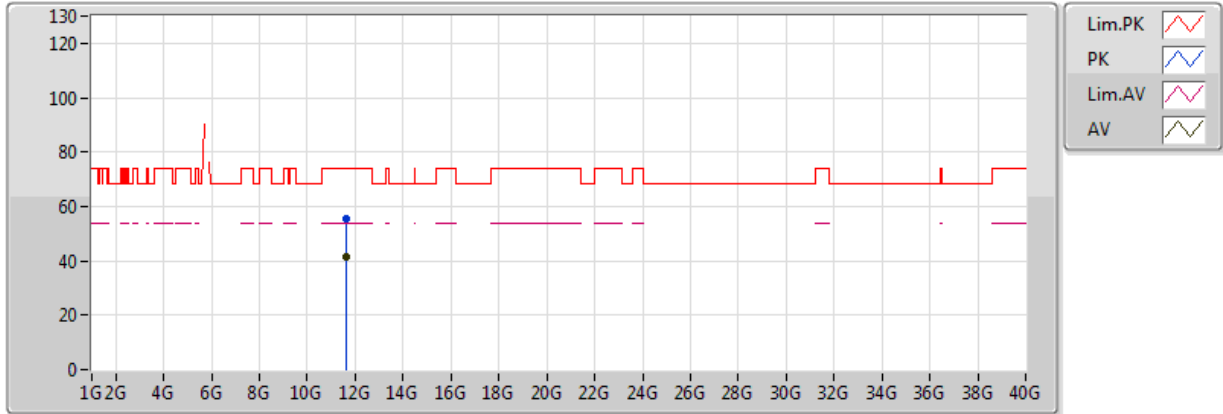


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65088G	43.57	54.00	-10.43	14.79	3	V	314	1.04	-
PK	11.65112G	57.47	74.00	-16.53	14.79	3	V	314	1.04	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_TX

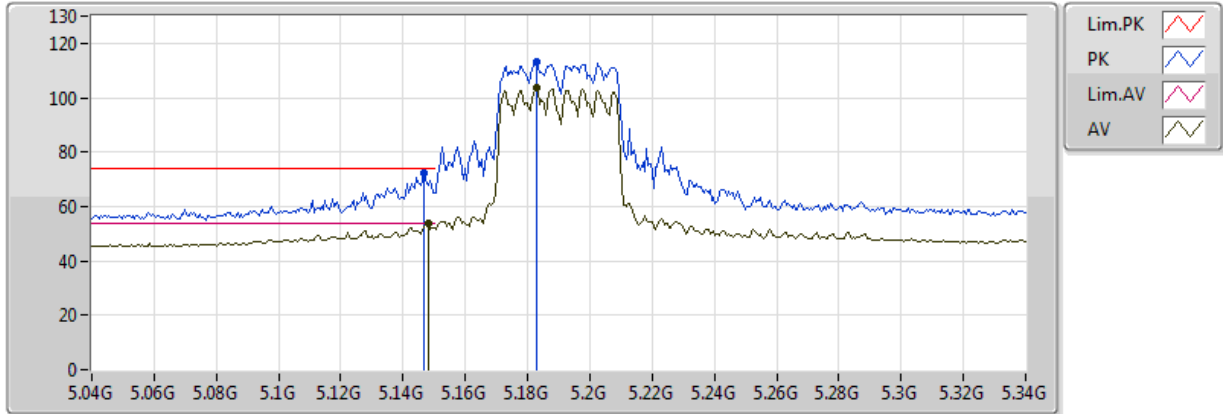


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 106
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65284G	41.60	54.00	-12.40	14.79	3	H	259	2.45	-
PK	11.65264G	55.27	74.00	-18.73	14.79	3	H	259	2.45	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

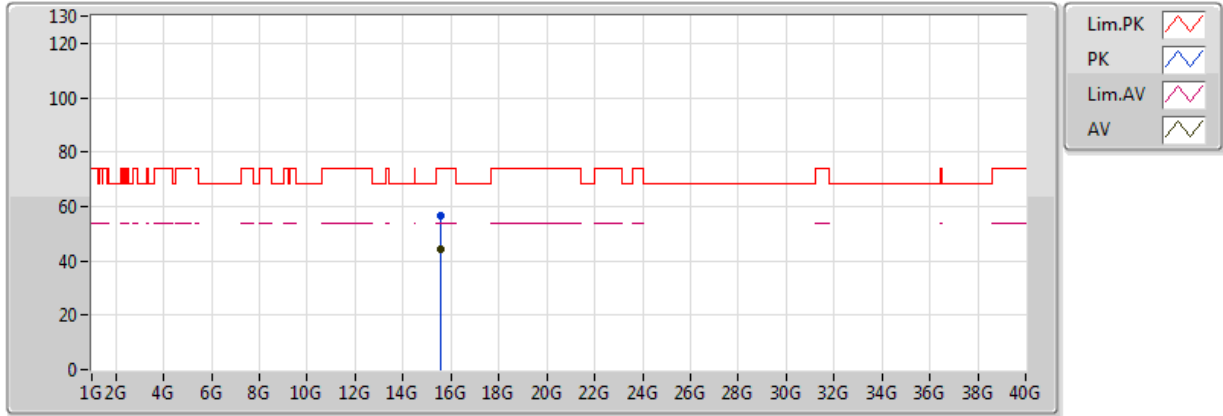


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 71
 04-J-5-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.148G	53.93	54.00	-0.07	4.77	3	V	131	1.50	-
AV	5.1828G	103.71	Inf	-Inf	4.89	3	V	131	1.50	-
PK	5.1468G	72.10	74.00	-1.90	4.76	3	V	131	1.50	-
PK	5.1828G	113.29	Inf	-Inf	4.89	3	V	131	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

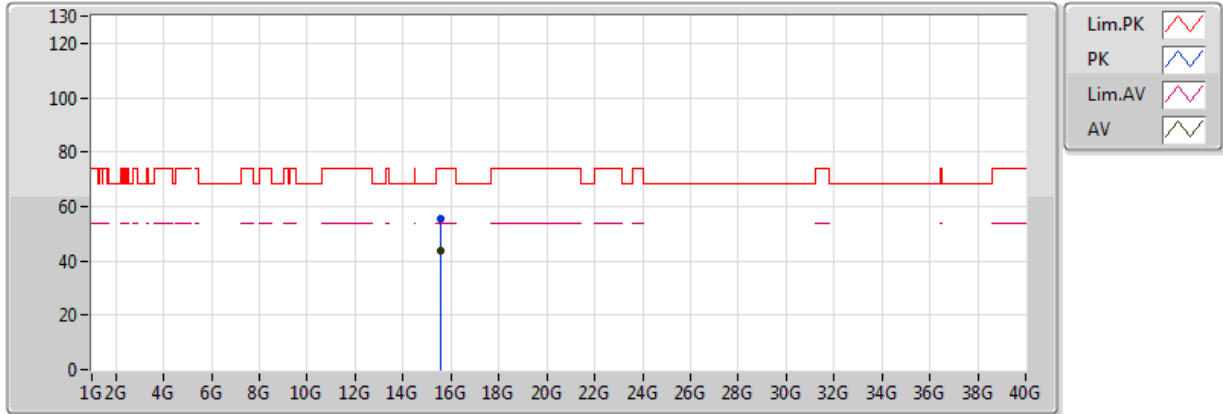


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 71
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.567G	44.00	54.00	-10.00	15.72	3	V	286	1.95	-
PK	15.5708G	56.60	74.00	-17.40	15.72	3	V	286	1.95	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

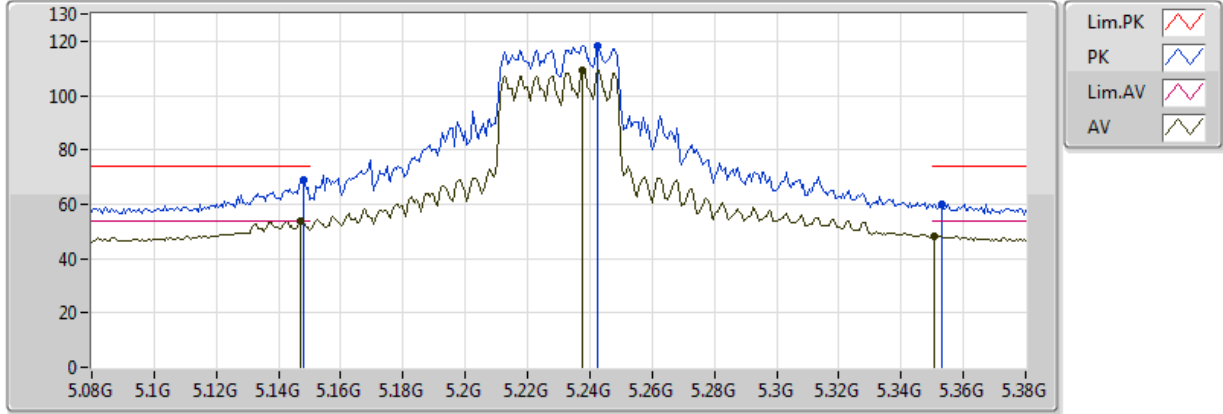


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 71
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.57816G	43.70	54.00	-10.30	15.71	3	H	239	2.17	-
PK	15.57464G	55.64	74.00	-18.36	15.71	3	H	239	2.17	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

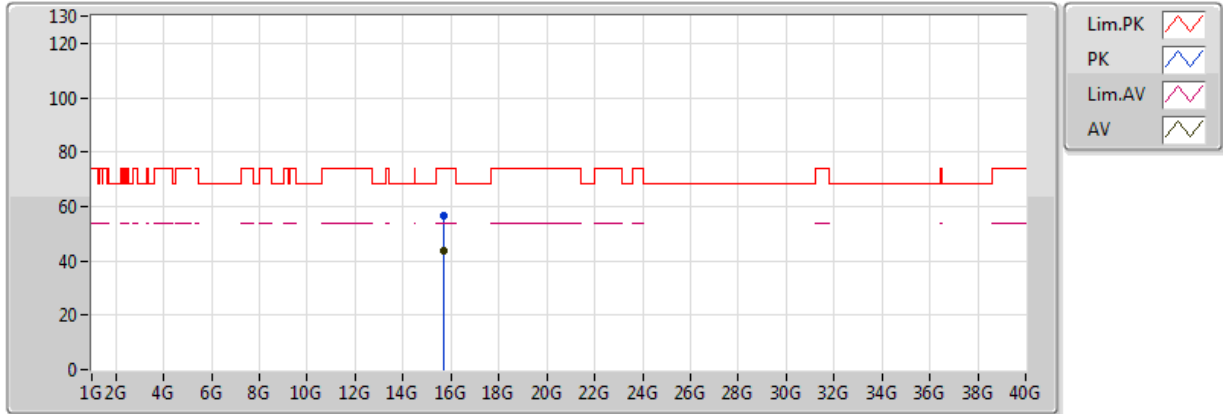


20170324
EUT_Z_4TX
Non-TXBF
Setting 84
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1472G	53.87	54.00	-0.13	4.77	3	V	31	1.91	-
AV	5.2378G	109.29	Inf	-Inf	4.99	3	V	31	1.91	-
AV	5.3506G	48.19	54.00	-5.81	5.10	3	V	31	1.91	-
PK	5.1478G	68.66	74.00	-5.34	4.77	3	V	31	1.91	-
PK	5.2426G	118.44	Inf	-Inf	5.00	3	V	31	1.91	-
PK	5.353G	60.00	74.00	-14.00	5.10	3	V	31	1.91	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

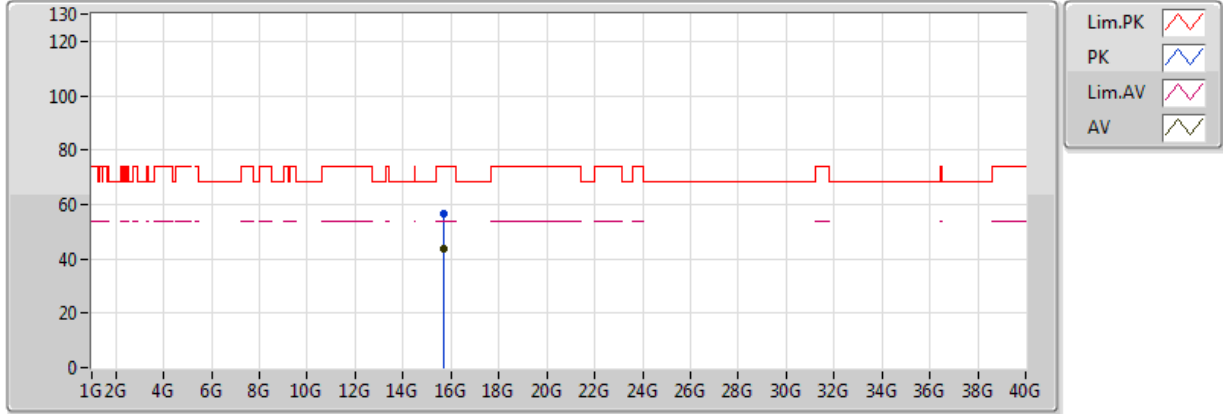


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 84
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6832G	43.92	54.00	-10.08	15.65	3	V	334	1.96	-
PK	15.68348G	56.50	74.00	-17.50	15.65	3	V	334	1.96	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

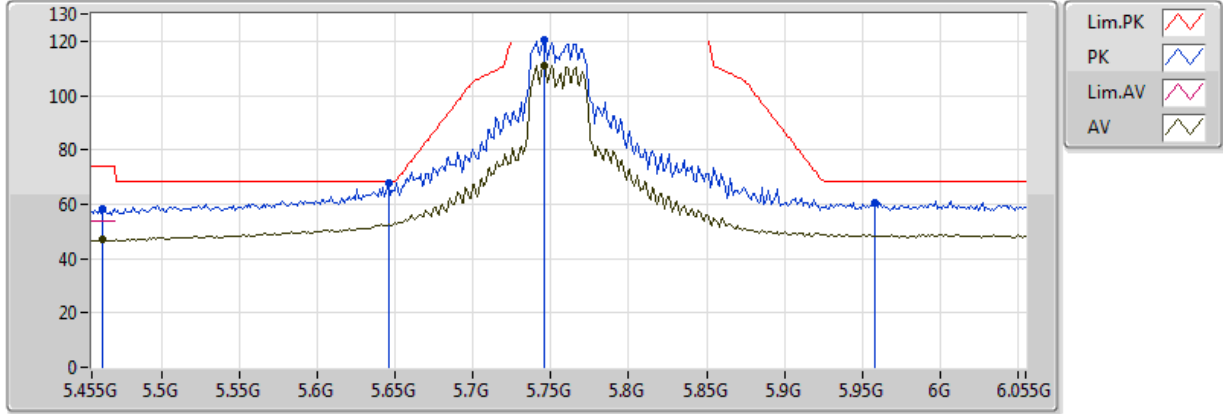


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 84
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.68872G	43.70	54.00	-10.30	15.65	3	H	76	2.49	-
PK	15.68948G	56.67	74.00	-17.33	15.65	3	H	76	2.49	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_TX

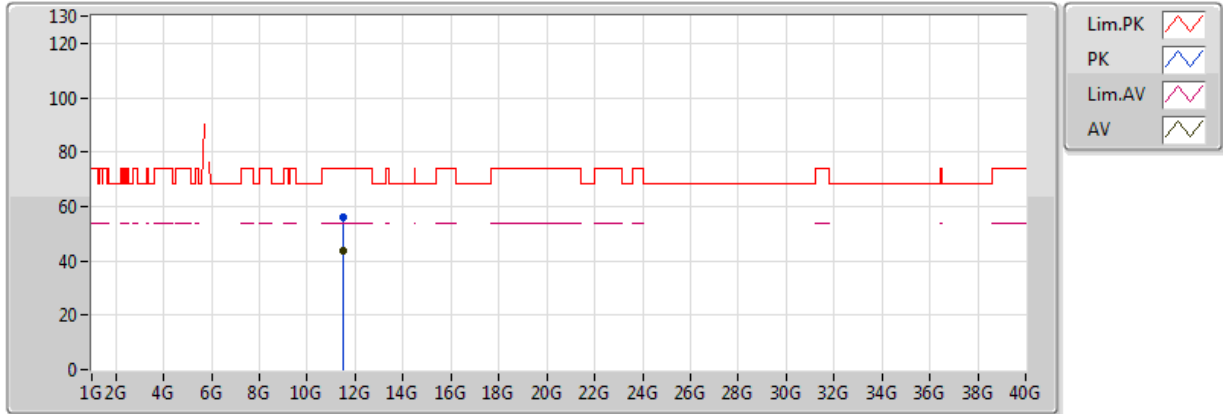


20170324
EUT_Z_4TX
Non-TXBF
Setting 95
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4622G	47.11	54.00	-6.89	5.43	3	V	268	1.50	-
AV	5.7454G	110.91	Inf	-Inf	6.32	3	V	268	1.50	-
PK	5.4622G	58.26	74.00	-15.74	5.43	3	V	268	1.50	-
PK	5.6458G	67.83	68.20	-0.37	6.20	3	V	268	1.50	-
PK	5.7454G	120.28	Inf	-Inf	6.32	3	V	268	1.50	-
PK	5.9578G	60.47	68.20	-7.73	7.31	3	V	268	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_TX

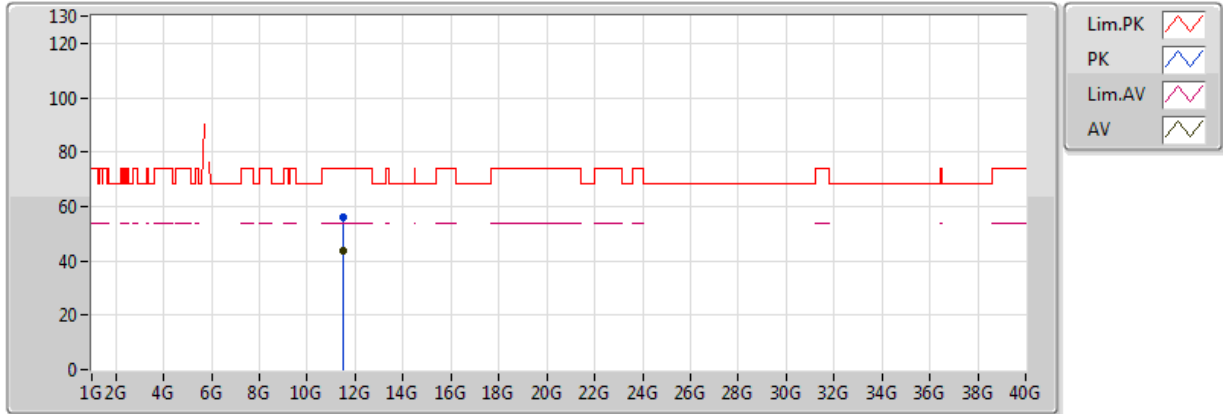


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 95
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.517G	43.66	54.00	-10.34	14.75	3	V	196	2.47	-
PK	11.51908G	56.19	74.00	-17.81	14.75	3	V	196	2.47	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_TX

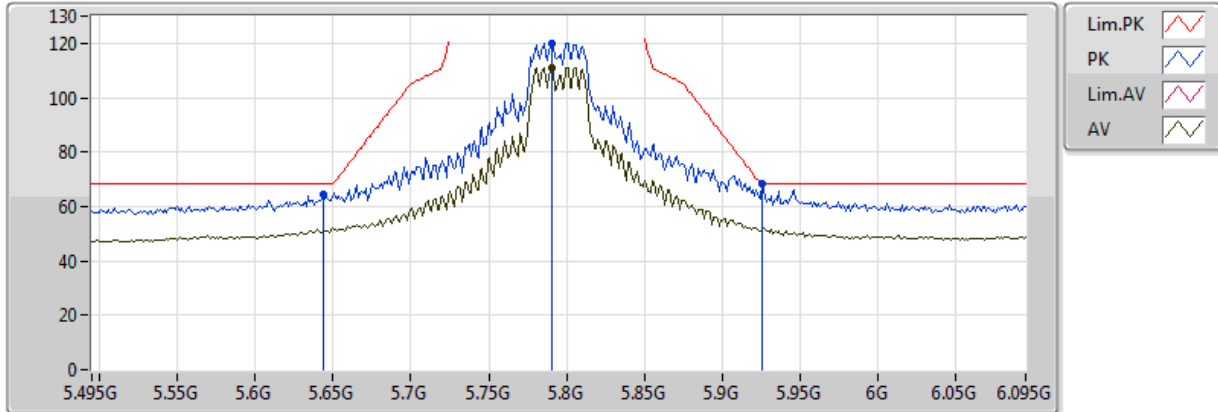


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 95
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.51412G	43.65	54.00	-10.35	14.75	3	H	217	1.49	-
PK	11.51712G	55.87	74.00	-18.13	14.75	3	H	217	1.49	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_TX

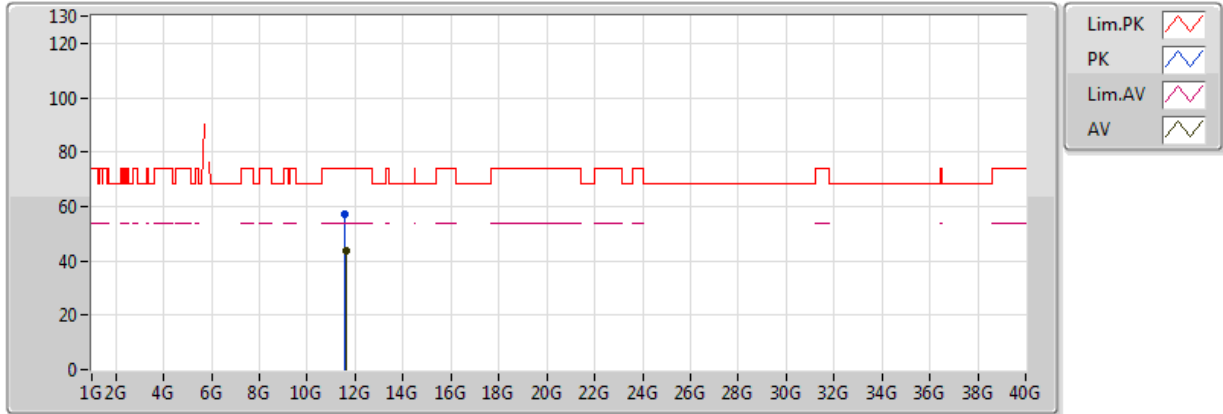


20170324
EUT_Z_4TX
Non-TXBF
Setting 99
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7902G	111.16	Inf	-Inf	6.38	3	V	268	1.50	-
PK	5.6438G	64.40	68.20	-3.80	6.20	3	V	268	1.50	-
PK	5.7902G	119.93	Inf	-Inf	6.38	3	V	268	1.50	-
PK	5.9258G	68.12	68.20	-0.08	7.12	3	V	268	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_TX

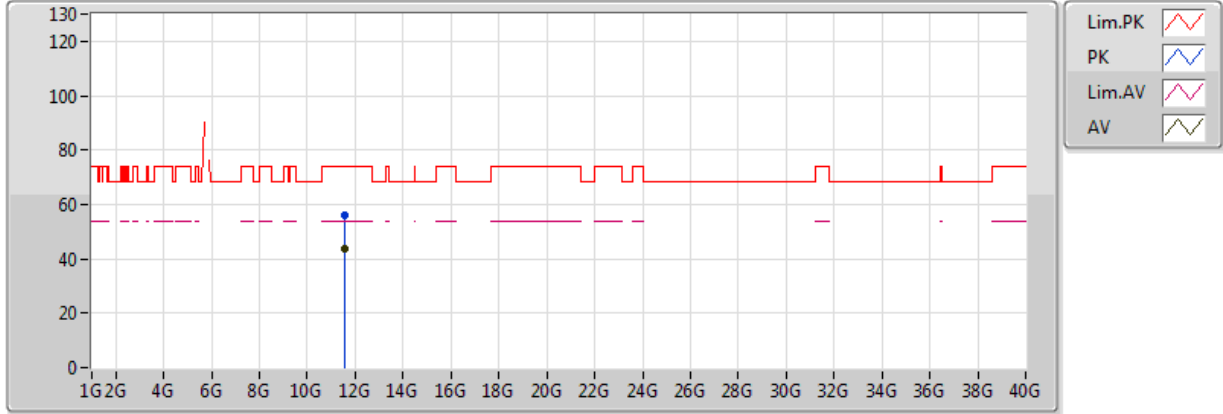


20170324
EUT_Z_4TX
Non-TXBF
Setting 99
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.59648G	43.55	54.00	-10.45	14.77	3	V	75	1.77	-
PK	11.58668G	56.88	74.00	-17.12	14.77	3	V	75	1.77	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_TX

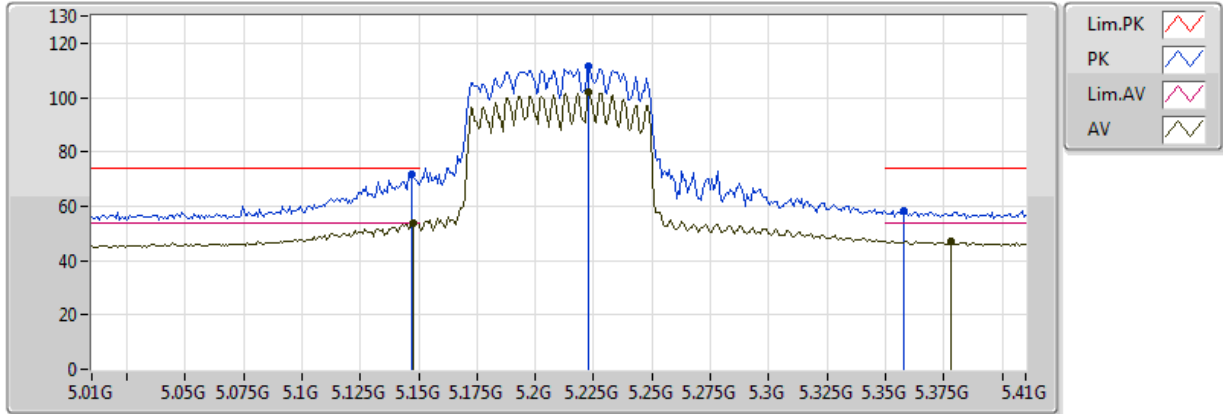


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 99
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.59096G	43.47	54.00	-10.53	14.77	3	H	55	1.68	-
PK	11.59008G	56.04	74.00	-17.96	14.77	3	H	55	1.68	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

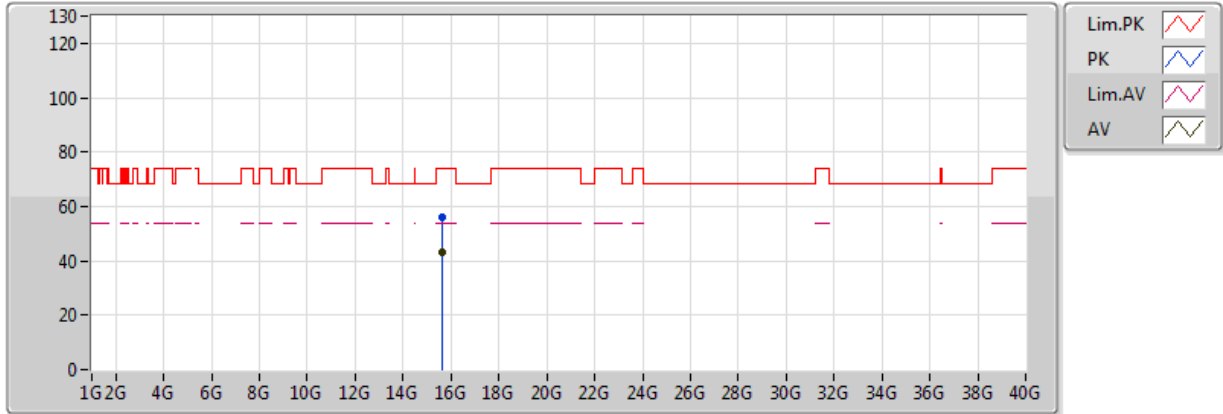


20170324
EUT_Z_4TX
Non-TXBF
Setting 73
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1476G	53.86	54.00	-0.14	4.77	3	V	26	1.50	-
AV	5.2228G	101.99	Inf	-Inf	4.98	3	V	26	1.50	-
AV	5.378G	47.07	54.00	-6.93	5.12	3	V	26	1.50	-
PK	5.1468G	71.81	74.00	-2.19	4.76	3	V	26	1.50	-
PK	5.2228G	111.24	Inf	-Inf	4.98	3	V	26	1.50	-
PK	5.358G	58.53	74.00	-15.47	5.11	3	V	26	1.50	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

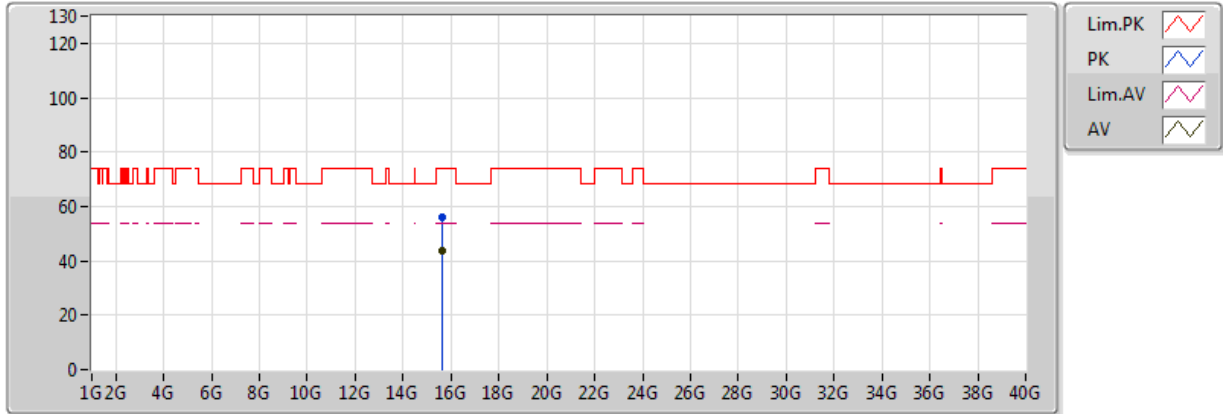


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 73
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62208G	43.42	54.00	-10.58	15.69	3	V	349	1.17	-
PK	15.63268G	55.85	74.00	-18.15	15.68	3	V	349	1.17	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

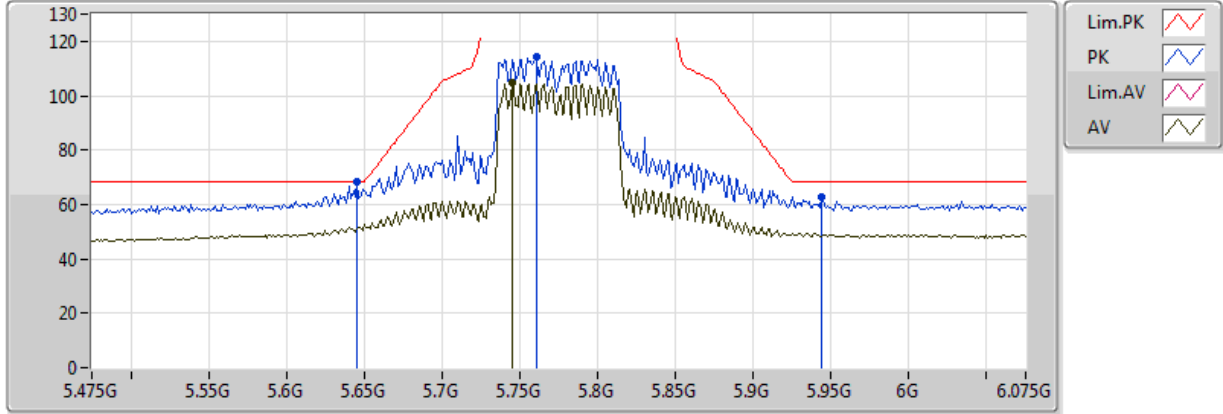


20170324
EUT_Z_4TX
Non-TXBF
Setting 73
04-J-5
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62872G	43.60	54.00	-10.40	15.68	3	H	22	1.62	-
PK	15.63512G	55.89	74.00	-18.11	15.68	3	H	22	1.62	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

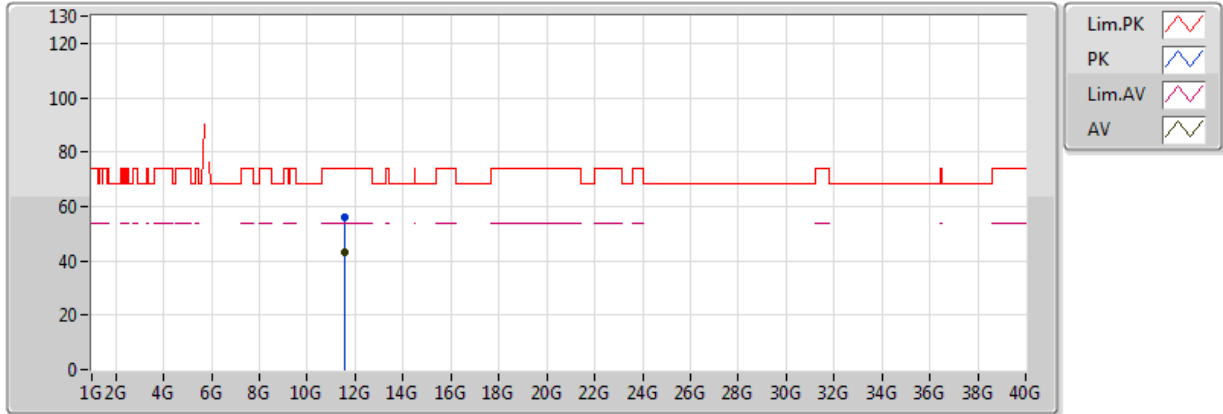


20170324
EUT_Z_4TX
Non-TXBF
Setting 80
04-J-5-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.745G	104.75	Inf	-Inf	6.32	3	V	270	1.50	-
PK	5.6454G	68.15	68.20	-0.05	6.20	3	V	270	1.50	-
PK	5.7606G	114.33	Inf	-Inf	6.34	3	V	270	1.50	-
PK	5.9442G	62.95	68.20	-5.25	7.23	3	V	270	1.50	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

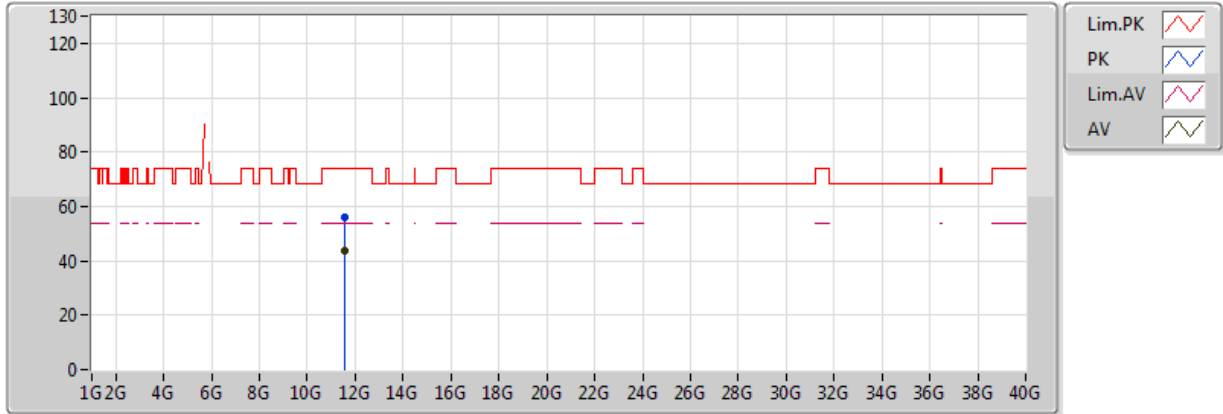


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 80
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.541G	43.32	54.00	-10.68	14.76	3	V	202	1.66	-
PK	11.54796G	56.27	74.00	-17.73	14.76	3	V	202	1.66	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

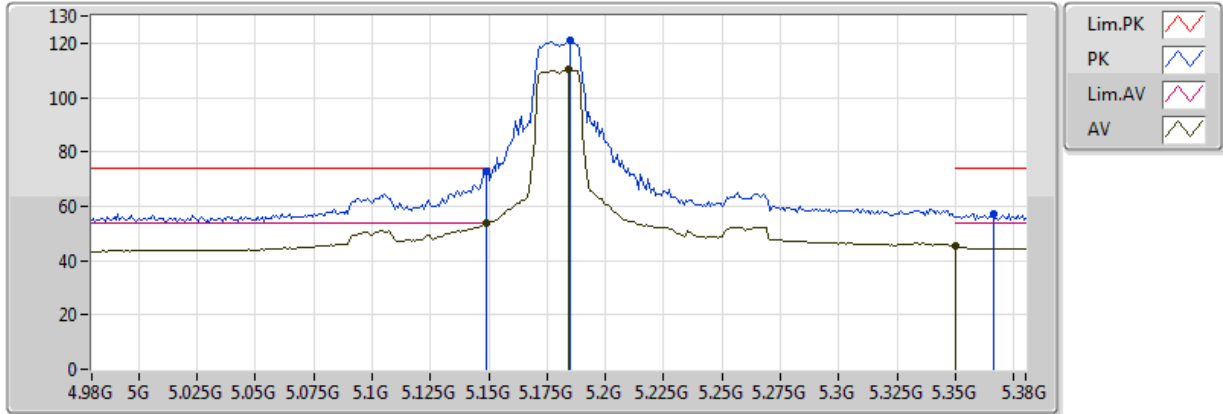


20170324
 EUT_Z_4TX
 Non-TXBF
 Setting 80
 04-J-5
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.5414G	43.50	54.00	-10.50	14.76	3	H	197	1.96	-
PK	11.5424G	55.92	74.00	-18.08	14.76	3	H	197	1.96	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

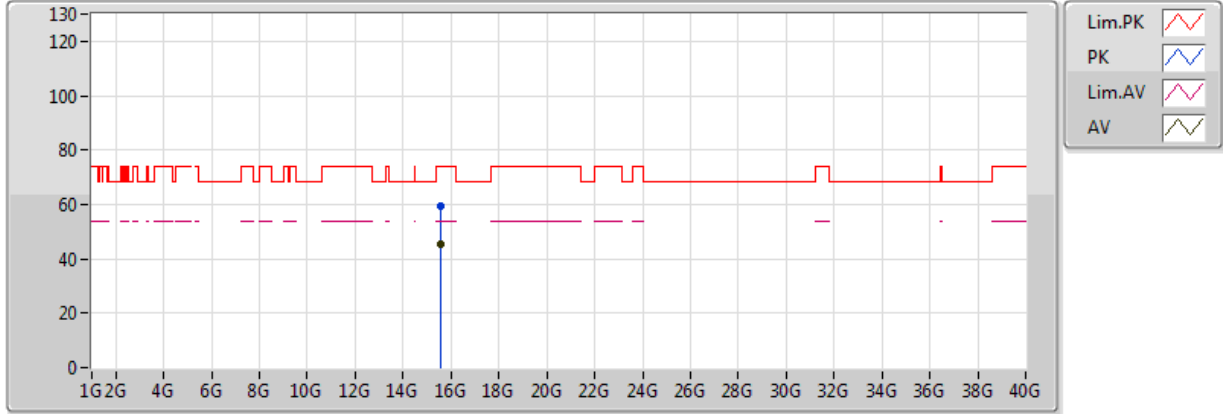


20170424
EUT_Z_4TX
Setting 79
01-W-3-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1488G	53.72	54.00	-0.28	4.27	3	V	56	1.77	-
AV	5.184G	110.36	Inf	-Inf	4.34	3	V	56	1.77	-
AV	5.350005G	45.46	54.00	-8.54	4.68	3	V	56	1.77	-
PK	5.1488G	72.93	74.00	-1.07	4.27	3	V	56	1.77	-
PK	5.1848G	120.76	Inf	-Inf	4.35	3	V	56	1.77	-
PK	5.3664G	57.27	74.00	-16.73	4.71	3	V	56	1.77	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

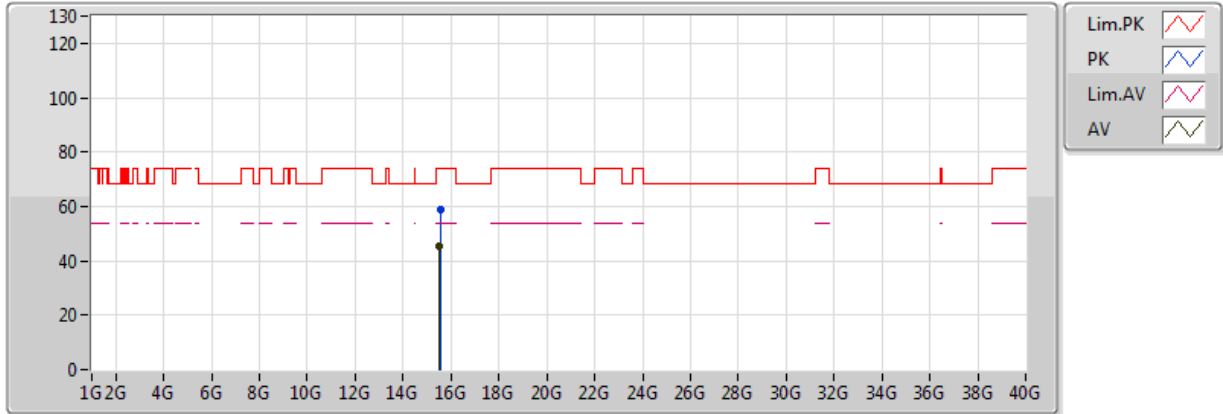


20170425
EUT_Z_4TX
Setting 79
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.54035G	45.30	54.00	-8.70	13.80	3	V	36	2.18	-
PK	15.53993G	59.53	74.00	-14.47	13.80	3	V	36	2.18	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5180MHz_TX

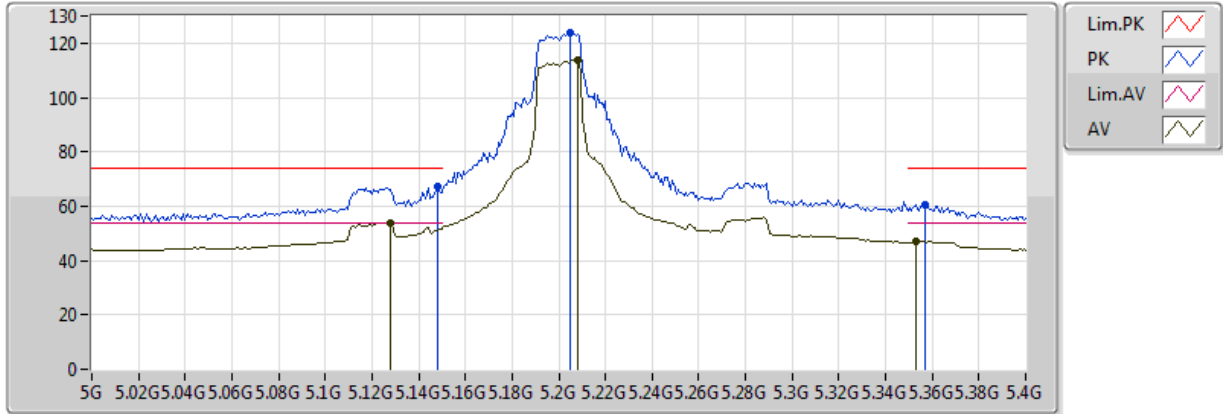


20170425
EUT_Z_4TX
Setting 79
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53752G	45.27	54.00	-8.73	13.80	3	H	6	1.86	-
PK	15.54195G	59.11	74.00	-14.89	13.80	3	H	6	1.86	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

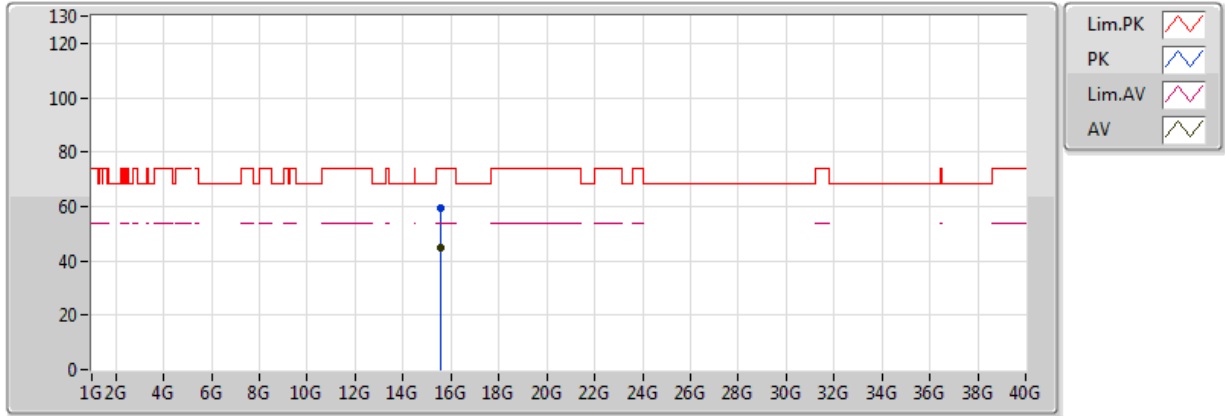


20170424
EUT_Z_4TX
Setting 90
01-W-3-10
FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.128G	53.98	54.00	-0.02	4.22	3	V	180	1.89	-
AV	5.208G	113.69	Inf	-Inf	4.40	3	V	180	1.89	-
AV	5.3528G	47.27	54.00	-6.73	4.69	3	V	180	1.89	-
PK	5.148G	67.35	74.00	-6.65	4.27	3	V	180	1.89	-
PK	5.2048G	123.56	Inf	-Inf	4.39	3	V	180	1.89	-
PK	5.3568G	60.41	74.00	-13.59	4.69	3	V	180	1.89	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

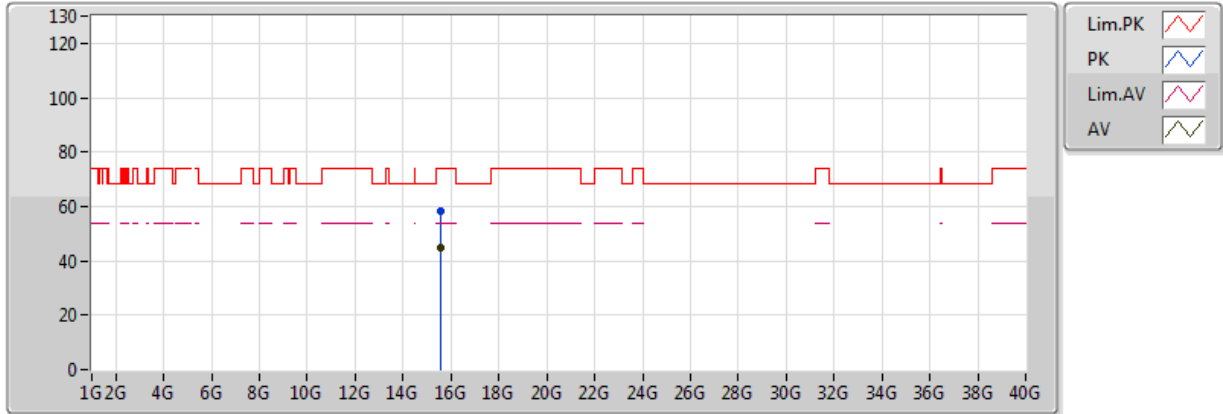


20170425
EUT_Z_4TX
Setting 90
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60067G	44.95	54.00	-9.05	13.73	3	V	147	2.02	-
PK	15.59944G	59.27	74.00	-14.73	13.73	3	V	147	2.02	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5200MHz_TX

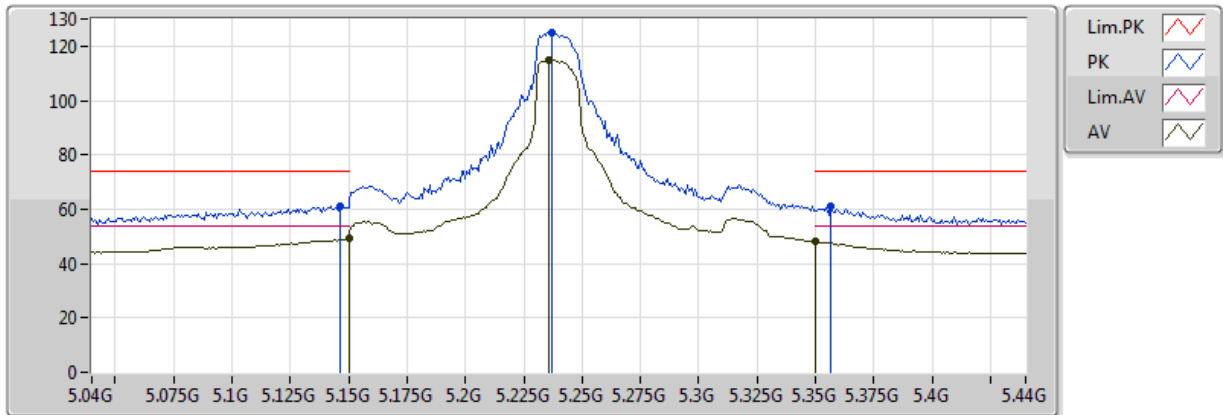


20170425
 EUT_Z_4TX
 Setting 90
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59908G	44.86	54.00	-9.14	13.73	3	H	340	1.96	-
PK	15.59893G	58.47	74.00	-15.53	13.73	3	H	340	1.96	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

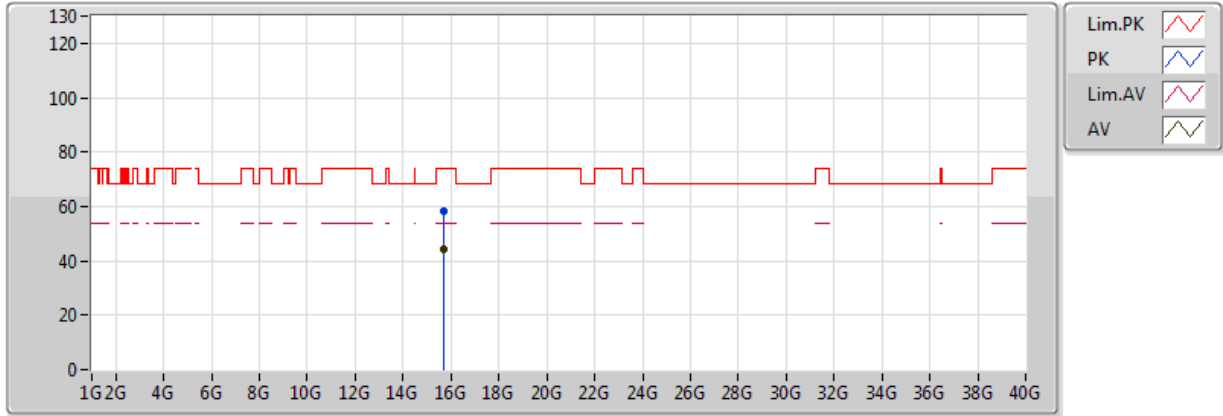


20170424
 EUT_Z_4TX
 Setting 100 (100†波形沒有變化)
 01-W-3-10
 FSU

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	49.22	54.00	-4.78	4.27	3	V	229	2.04	-
AV	5.236G	115.11	Inf	-Inf	4.46	3	V	229	2.04	-
AV	5.350005G	48.20	54.00	-5.80	4.68	3	V	229	2.04	-
PK	5.1464G	61.12	74.00	-12.88	4.26	3	V	229	2.04	-
PK	5.2368G	125.18	Inf	-Inf	4.46	3	V	229	2.04	-
PK	5.3568G	61.01	74.00	-12.99	4.69	3	V	229	2.04	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

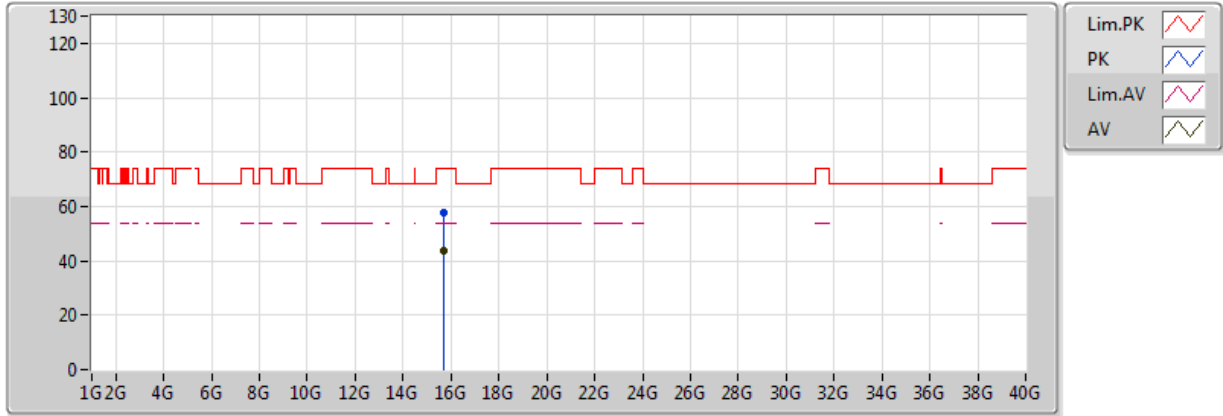


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71901G	44.08	54.00	-9.92	13.58	3	V	310	1.05	-
PK	15.71775G	58.00	74.00	-16.00	13.58	3	V	310	1.05	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5240MHz_TX

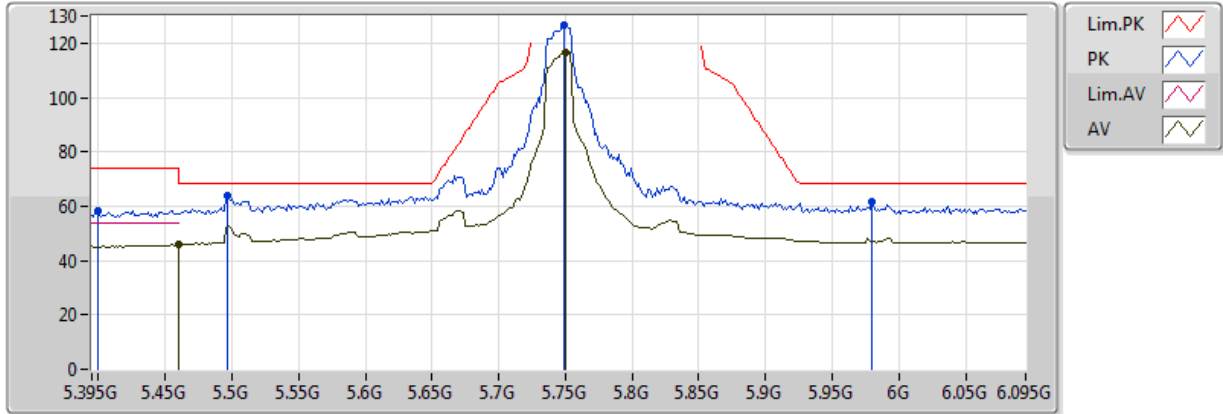


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72035G	43.95	54.00	-10.05	13.58	3	H	349	1.20	-
PK	15.72004G	57.89	74.00	-16.11	13.58	3	H	349	1.20	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

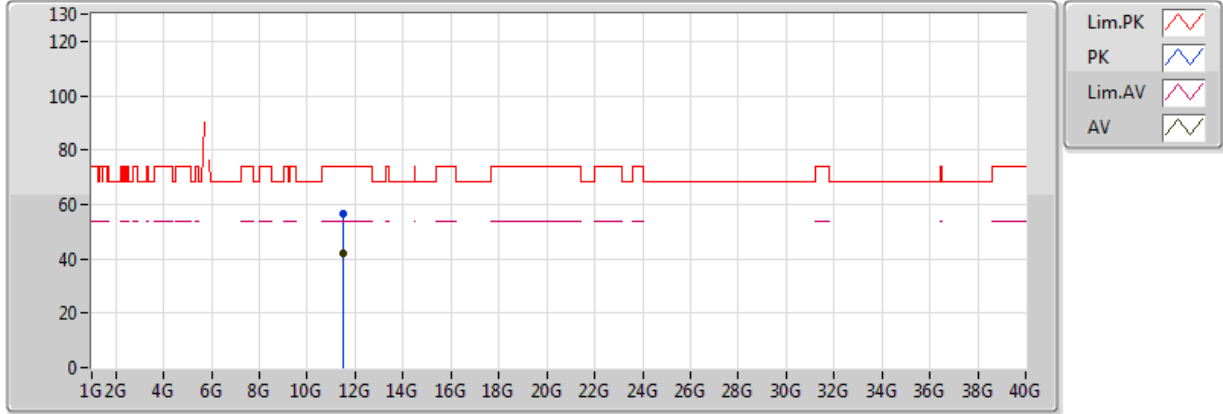


20170425
 EUT_Z_4TX
 Setting 100 (100†波形沒有變化)
 01-W-3-10
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.459995G	45.84	54.00	-8.16	4.93	3	V	8	1.37	-
AV	5.7506G	116.61	Inf	-Inf	5.82	3	V	8	1.37	-
PK	5.3992G	58.48	74.00	-15.52	4.77	3	V	8	1.37	-
PK	5.4972G	63.70	68.20	-4.50	5.02	3	V	8	1.37	-
PK	5.7492G	126.49	Inf	-Inf	5.82	3	V	8	1.37	-
PK	5.9802G	61.55	68.20	-6.65	6.64	3	V	8	1.37	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

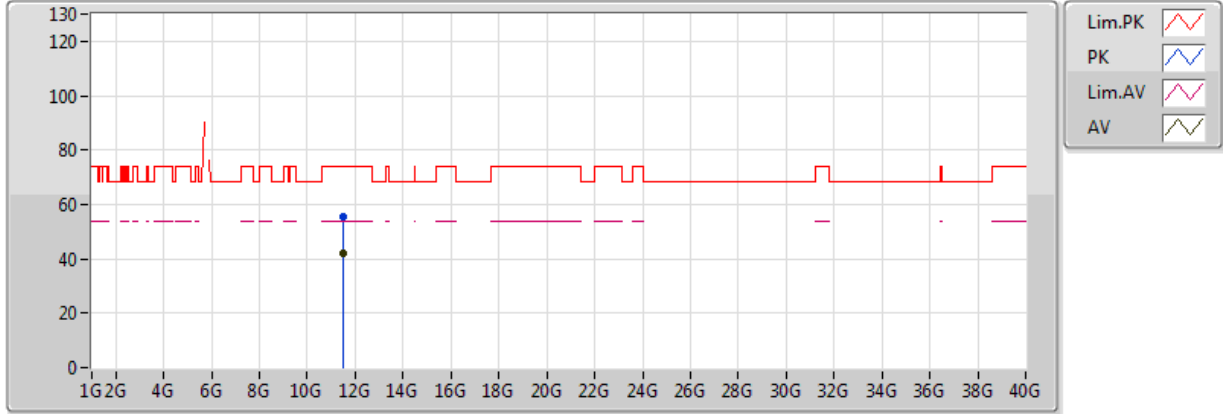


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48965G	42.20	54.00	-11.80	12.04	3	V	330	1.02	-
PK	11.48913G	56.64	74.00	-17.36	12.04	3	V	330	1.02	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5745MHz_TX

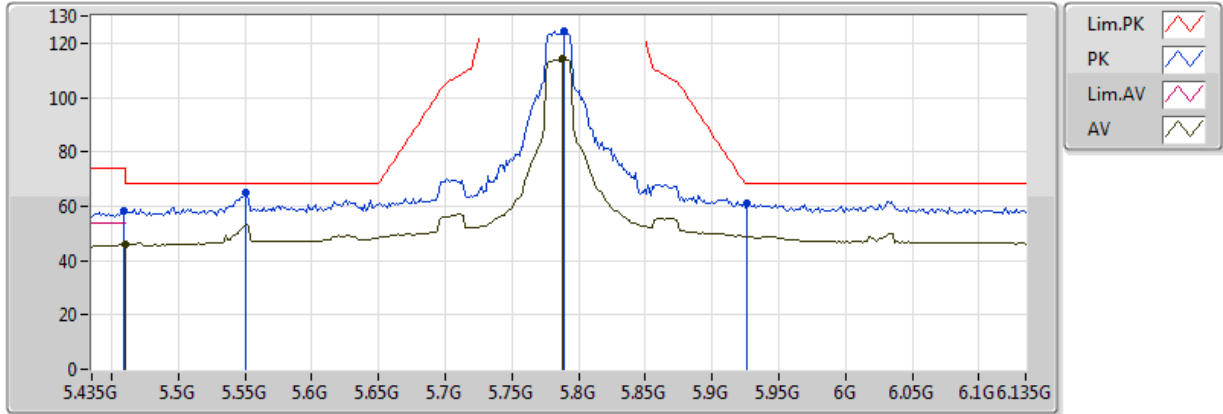


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48971G	41.90	54.00	-12.10	12.04	3	H	309	1.07	-
PK	11.48927G	55.72	74.00	-18.28	12.04	3	H	309	1.07	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

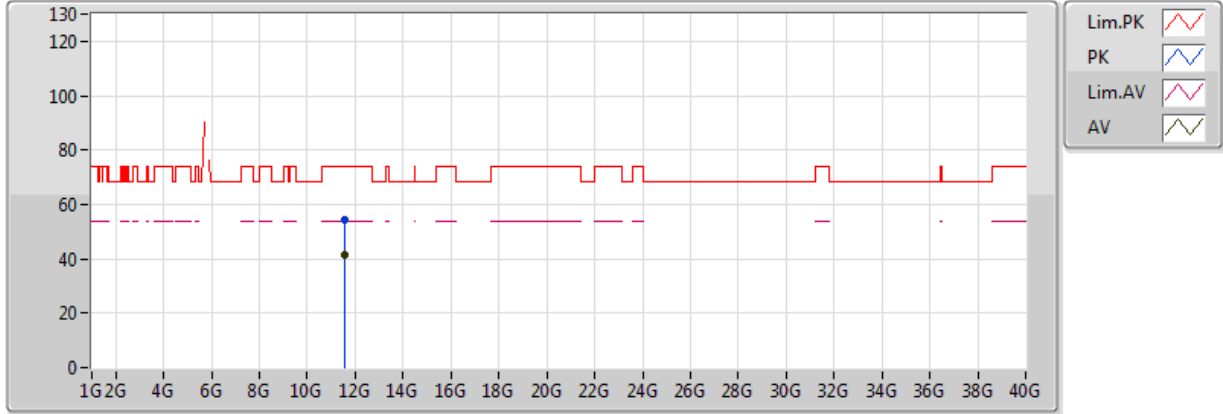


20170425
 EUT_Z_4TX
 Setting 100 (100†波形沒有變化)
 01-W-3-10
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.459995G	45.90	54.00	-8.10	4.93	3	V	259	1.49	-
AV	5.7878G	114.30	Inf	-Inf	5.93	3	V	259	1.49	-
PK	5.4588G	58.10	74.00	-15.90	4.92	3	V	259	1.49	-
PK	5.5498G	65.22	68.20	-2.98	5.20	3	V	259	1.49	-
PK	5.7892G	124.47	Inf	-Inf	5.93	3	V	259	1.49	-
PK	5.9264G	61.29	68.20	-6.91	6.44	3	V	259	1.49	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

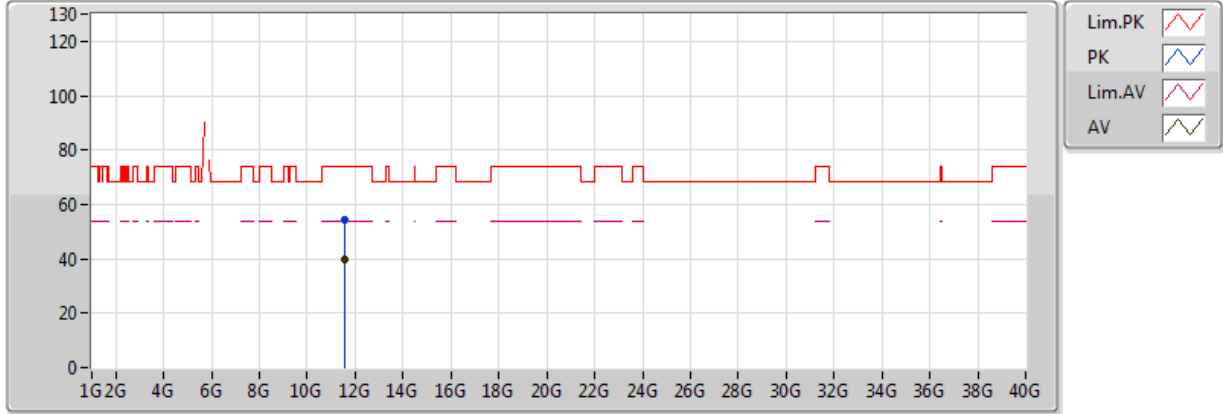


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57102G	41.38	54.00	-12.62	12.08	3	V	109	1.11	-
PK	11.5686G	54.43	74.00	-19.57	12.08	3	V	109	1.11	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5785MHz_TX

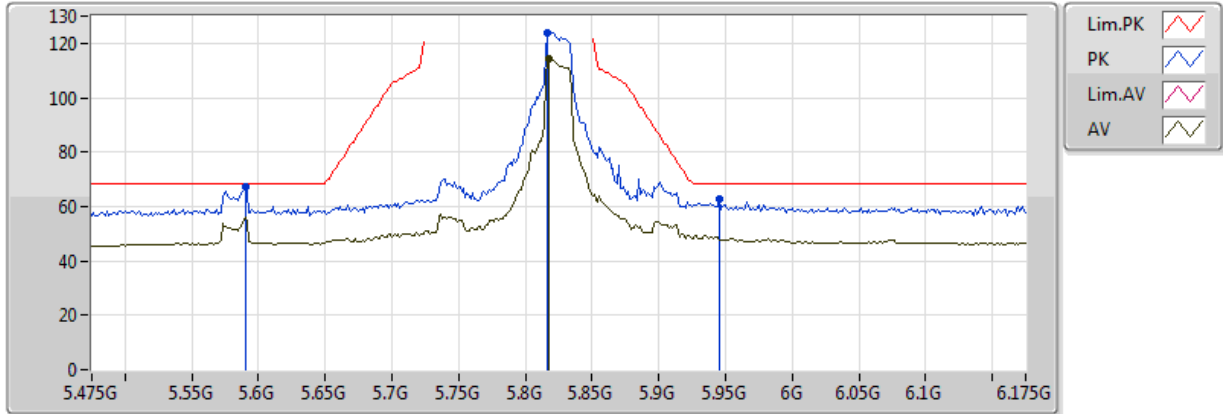


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57099G	39.84	54.00	-14.16	12.08	3	H	160	2.30	-
PK	11.57078G	54.18	74.00	-19.82	12.08	3	H	160	2.30	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

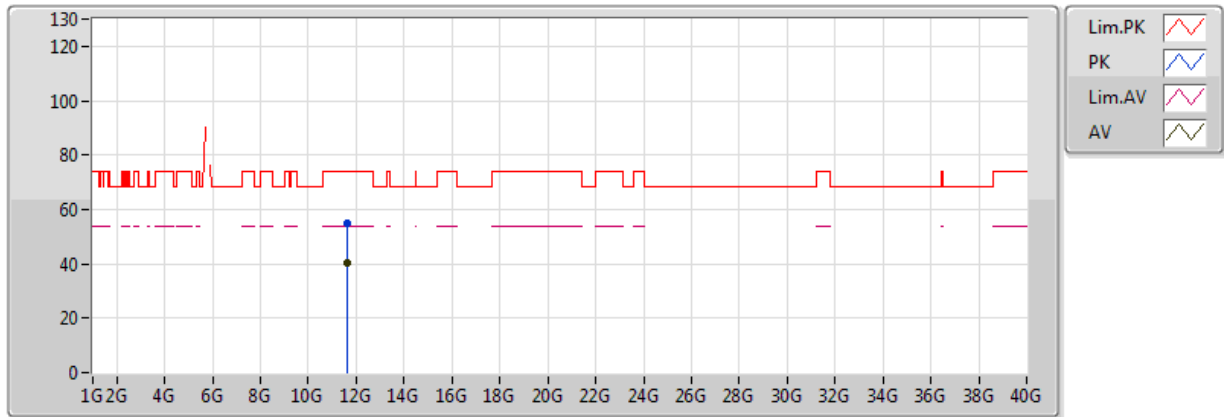


20170425
 EUT_Z_4TX
 Setting 100 (100†波形沒有變化)
 01-W-3-10
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.818G	114.30	Inf	-Inf	6.03	3	V	65	1.50	-
PK	5.5898G	67.21	68.20	-0.99	5.34	3	V	65	1.50	-
PK	5.8166G	123.77	Inf	-Inf	6.02	3	V	65	1.50	-
PK	5.9454G	62.78	68.20	-5.42	6.51	3	V	65	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

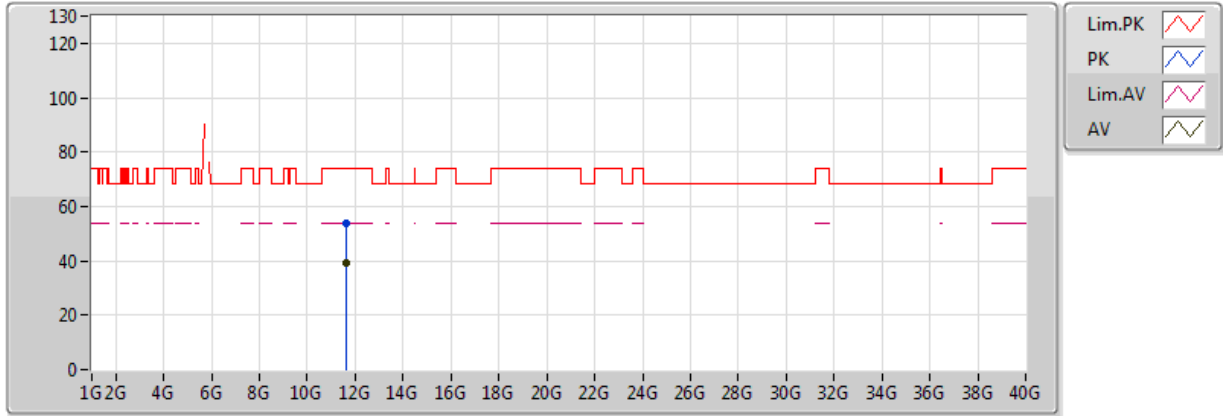


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.64997G	40.10	54.00	-13.90	12.12	3	V	229	2.08	-
PK	11.6475G	54.75	74.00	-19.25	12.12	3	V	229	2.08	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

5825MHz_TX

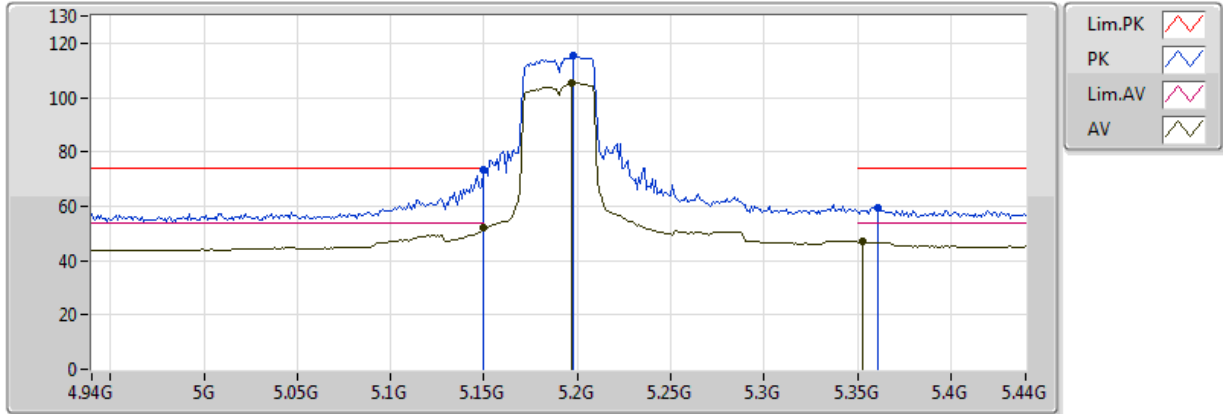


20170425
 EUT_Z_4TX
 Setting 100 (100↑波形沒有變化)
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.65013G	39.34	54.00	-14.66	12.12	3	H	43	1.71	-
PK	11.65194G	53.87	74.00	-20.13	12.12	3	H	43	1.71	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

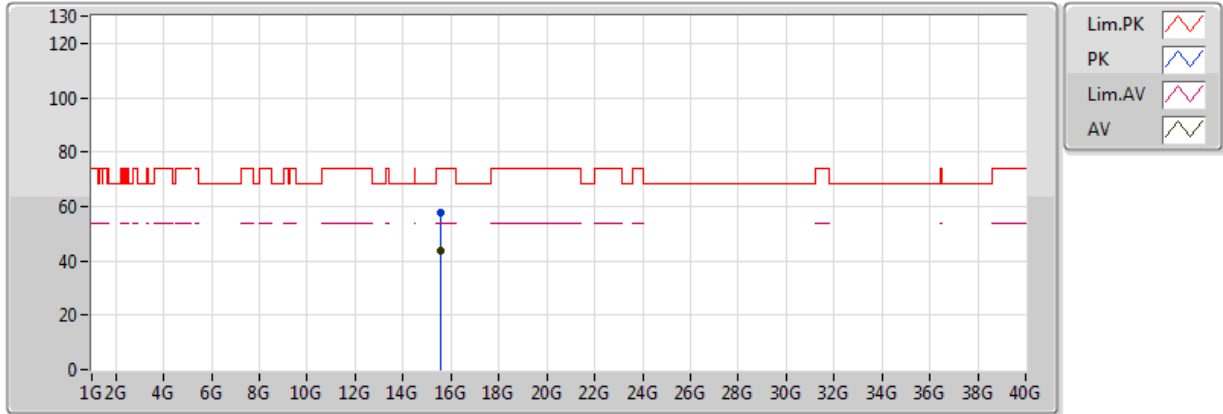


20170425
EUT_Z_4TX
Setting 68
01-W-3-10
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	51.84	54.00	-2.16	4.27	3	V	57	1.81	-
AV	5.197G	105.22	Inf	-Inf	4.37	3	V	57	1.81	-
AV	5.353G	46.93	54.00	-7.07	4.69	3	V	57	1.81	-
PK	5.149995G	73.56	74.00	-0.44	4.27	3	V	57	1.81	-
PK	5.198G	115.59	Inf	-Inf	4.38	3	V	57	1.81	-
PK	5.361G	59.42	74.00	-14.58	4.70	3	V	57	1.81	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

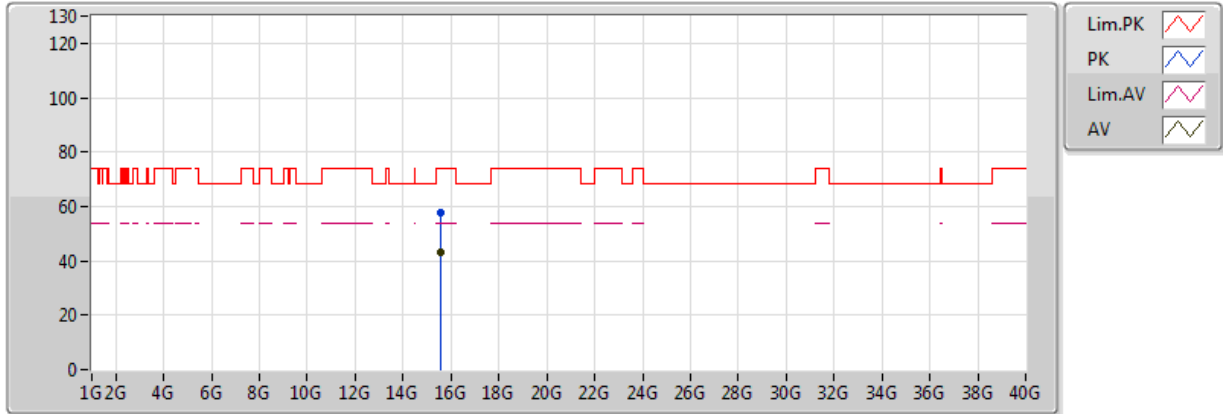


20170426
EUT_Z_4TX
Setting 68
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.56973G	43.68	54.00	-10.32	13.76	3	V	7	1.42	-
PK	15.57172G	57.64	74.00	-16.36	13.76	3	V	7	1.42	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5190MHz_TX

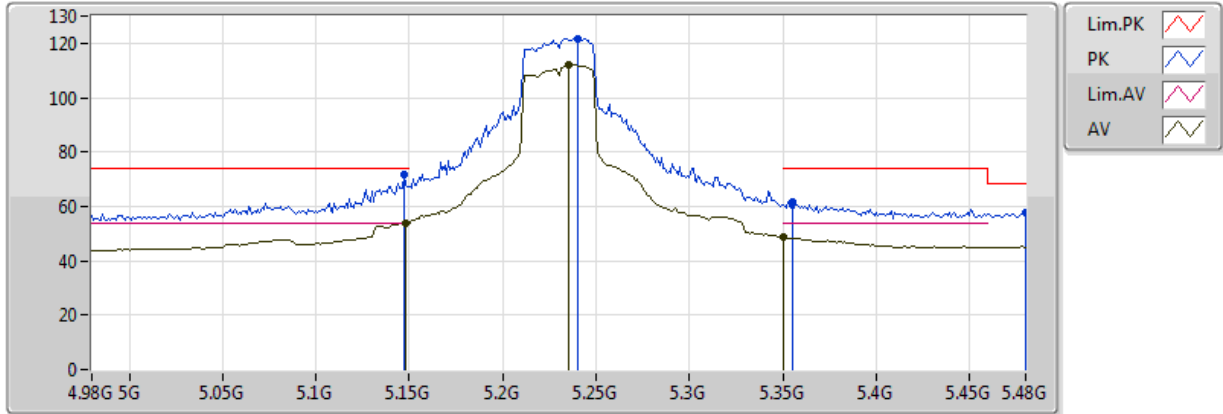


20170426
EUT_Z_4TX
Setting 68
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.572464G	43.01	54.00	-10.99	13.76	3	H	167	2.49	-
PK	15.572688G	57.75	74.00	-16.25	13.76	3	H	167	2.49	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

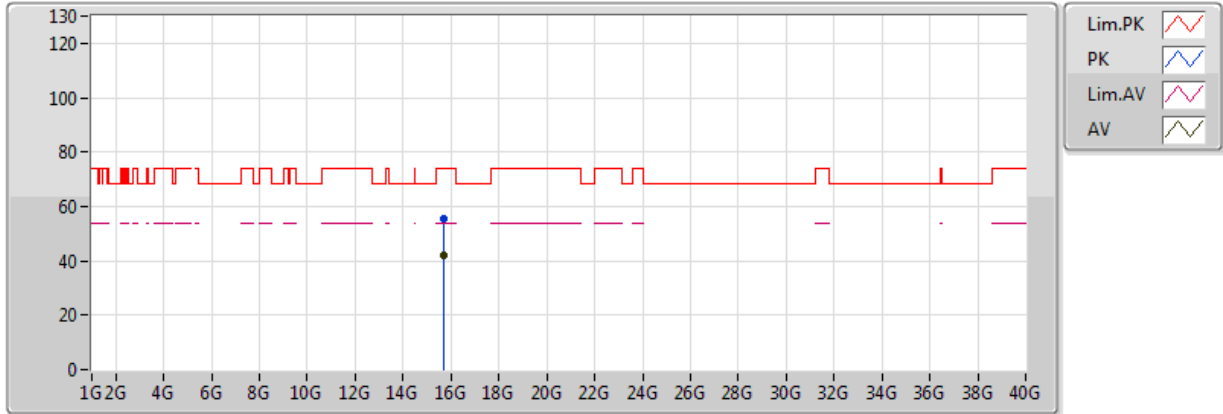


20170425
EUT_Z_4TX
Setting 89
01-W-3-10
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.148G	53.90	54.00	-0.10	4.27	3	V	143	1.83	-
AV	5.235G	112.13	Inf	-Inf	4.45	3	V	143	1.83	-
AV	5.350005G	48.85	54.00	-5.15	4.68	3	V	143	1.83	-
PK	5.147G	71.70	74.00	-2.30	4.26	3	V	143	1.83	-
PK	5.24G	121.63	Inf	-Inf	4.46	3	V	143	1.83	-
PK	5.355G	61.76	74.00	-12.24	4.69	3	V	143	1.83	-
PK	5.48G	57.78	68.20	-10.42	4.98	3	V	143	1.83	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

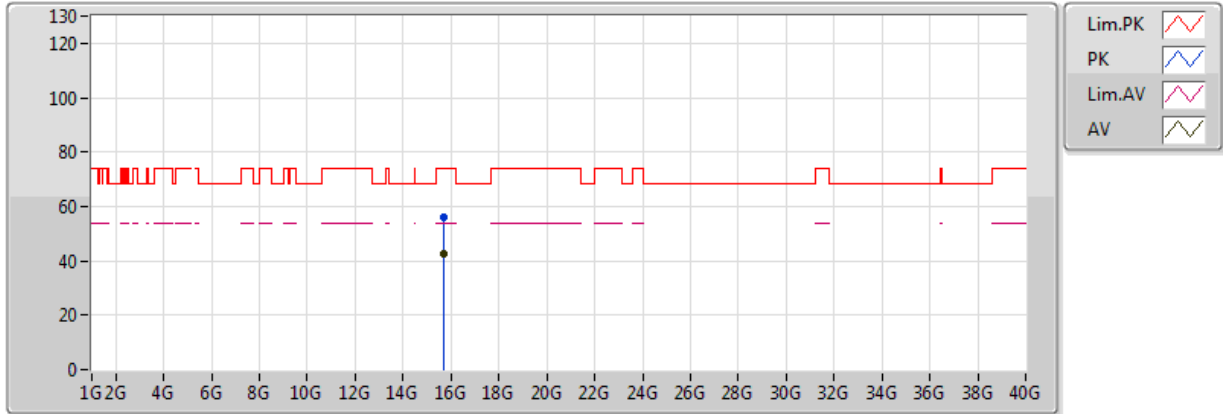


20170426
 EUT_Z_4TX
 Setting 89
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6919G	42.12	54.00	-11.88	13.61	3	V	266	2.49	-
PK	15.68892G	55.70	74.00	-18.30	13.62	3	V	266	2.49	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5230MHz_TX

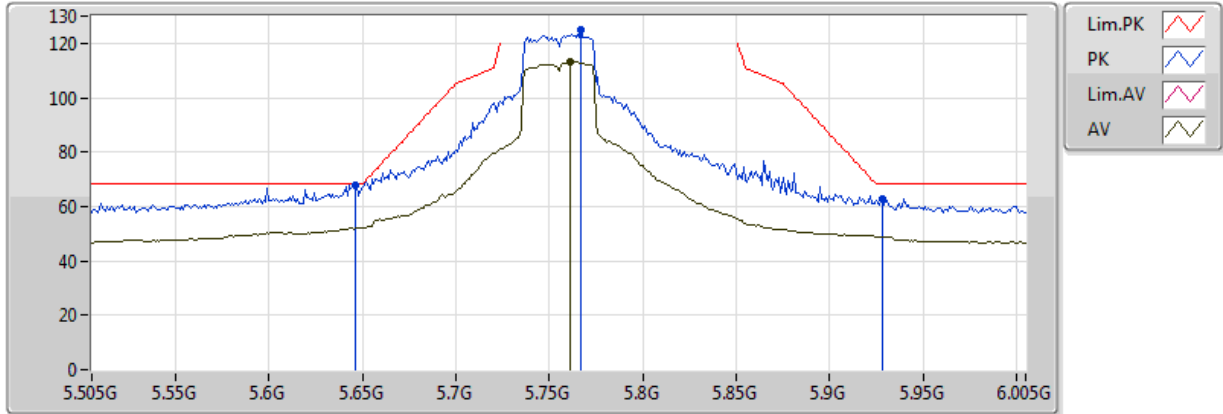


20170426
 EUT_Z_4TX
 Setting 89
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.689G	42.32	54.00	-11.68	13.62	3	H	140	1.44	-
PK	15.69164G	56.00	74.00	-18.00	13.61	3	H	140	1.44	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

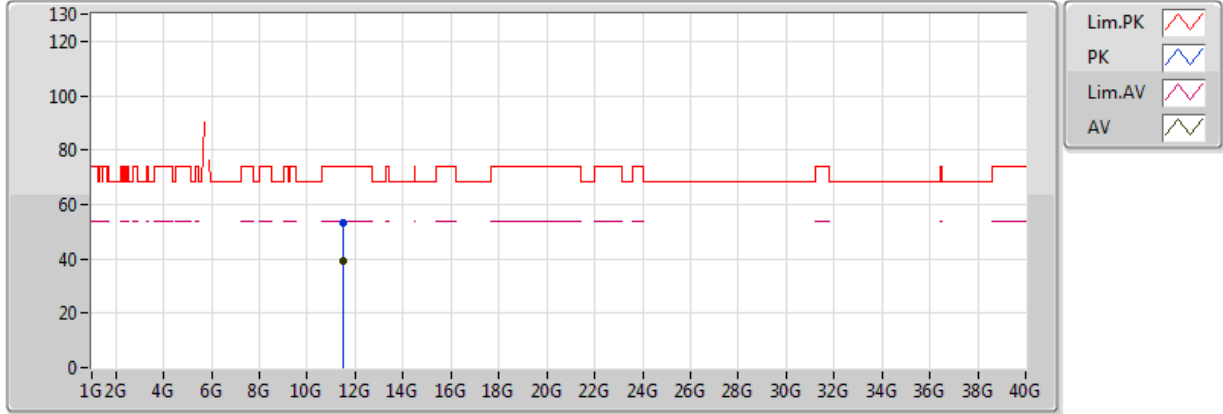


20170425
EUT_Z_4TX
Setting 93
01-W-3-10
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.761G	113.34	Inf	-Inf	5.85	3	V	5	2.40	-
PK	5.646G	67.92	68.20	-0.28	5.52	3	V	5	2.40	-
PK	5.767G	124.77	Inf	-Inf	5.87	3	V	5	2.40	-
PK	5.928G	62.67	68.20	-5.53	6.45	3	V	5	2.40	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

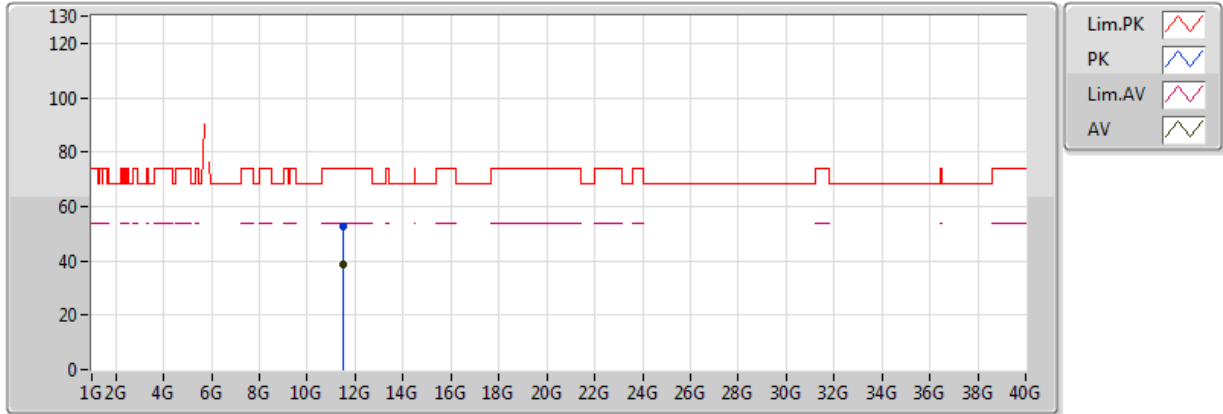


20170425
 EUT_Z_4TX
 Setting 93
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.50995G	39.35	54.00	-14.65	12.05	3	V	332	1.88	-
PK	11.50929G	52.97	74.00	-21.03	12.05	3	V	332	1.88	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5755MHz_TX

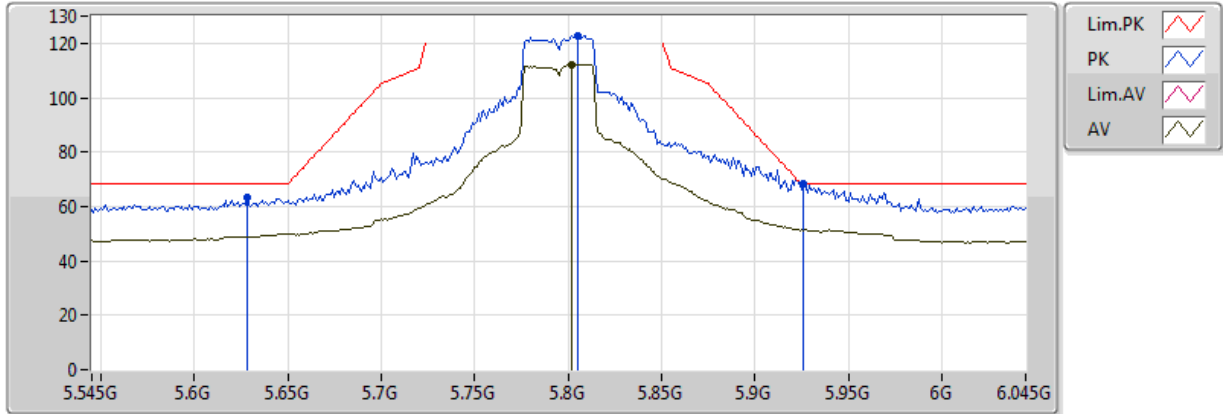


20170425
EUT_Z_4TX
Setting 93
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.51246G	38.87	54.00	-15.13	12.05	3	H	201	1.07	-
PK	11.51215G	52.94	74.00	-21.06	12.05	3	H	201	1.07	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

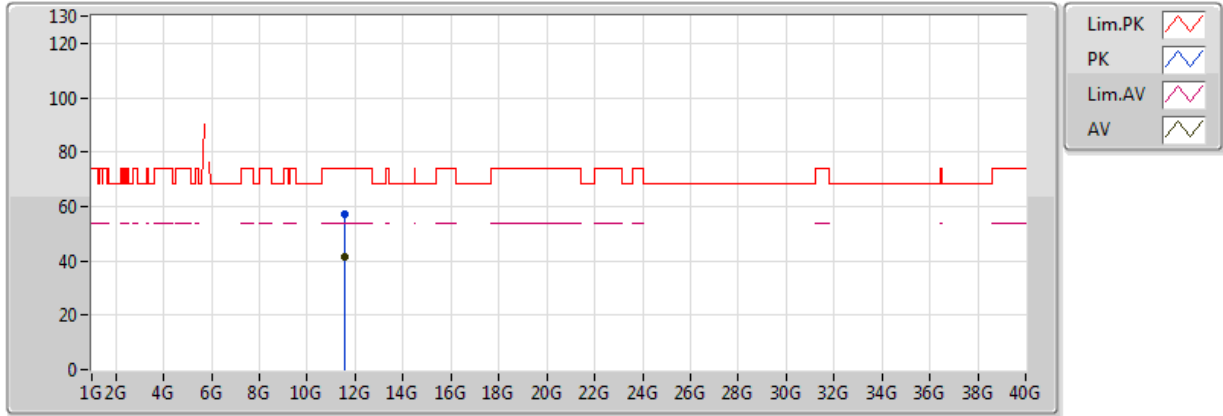


20170425
EUT_Z_4TX
Setting 95
01-W-3-10
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.802G	112.33	Inf	-Inf	5.97	3	V	130	2.46	-
PK	5.628G	63.26	68.20	-4.94	5.46	3	V	130	2.46	-
PK	5.805G	122.97	Inf	-Inf	5.98	3	V	130	2.46	-
PK	5.926G	68.18	68.20	-0.02	6.44	3	V	130	2.46	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

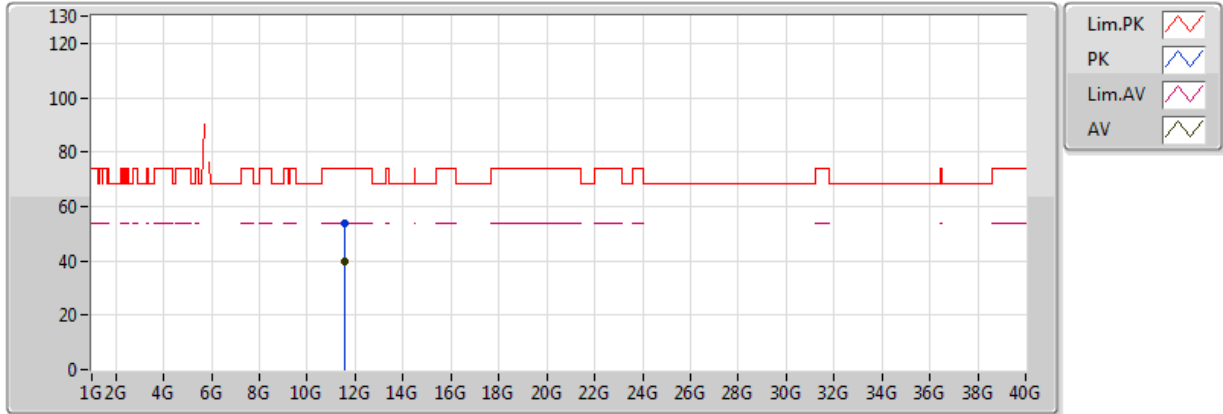


20170425
 EUT_Z_4TX
 Setting 95
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.58986G	41.39	54.00	-12.61	12.09	3	V	206	1.39	-
PK	11.59003G	57.15	74.00	-16.85	12.09	3	V	206	1.39	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

5795MHz_TX

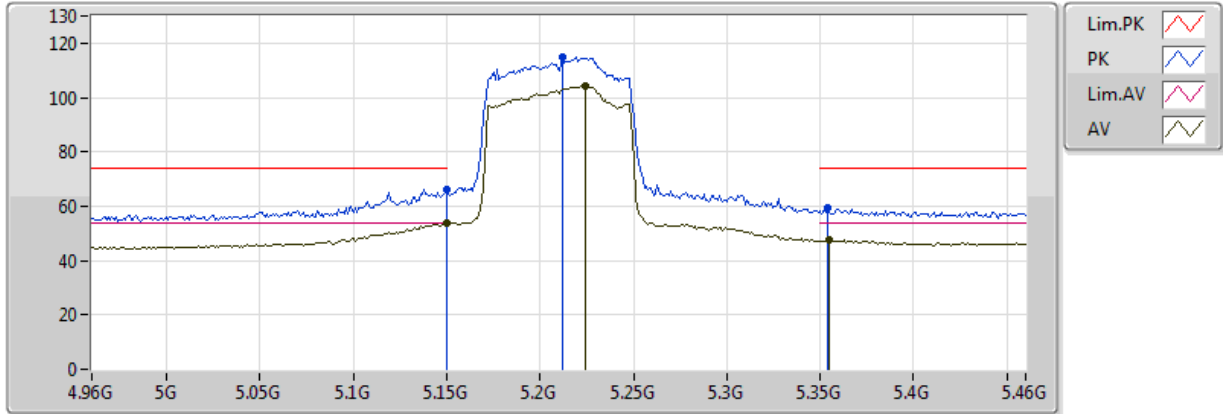


20170425
EUT_Z_4TX
Setting 95
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.59062G	39.55	54.00	-14.45	12.09	3	H	87	2.11	-
PK	11.5875G	53.82	74.00	-20.18	12.09	3	H	87	2.11	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

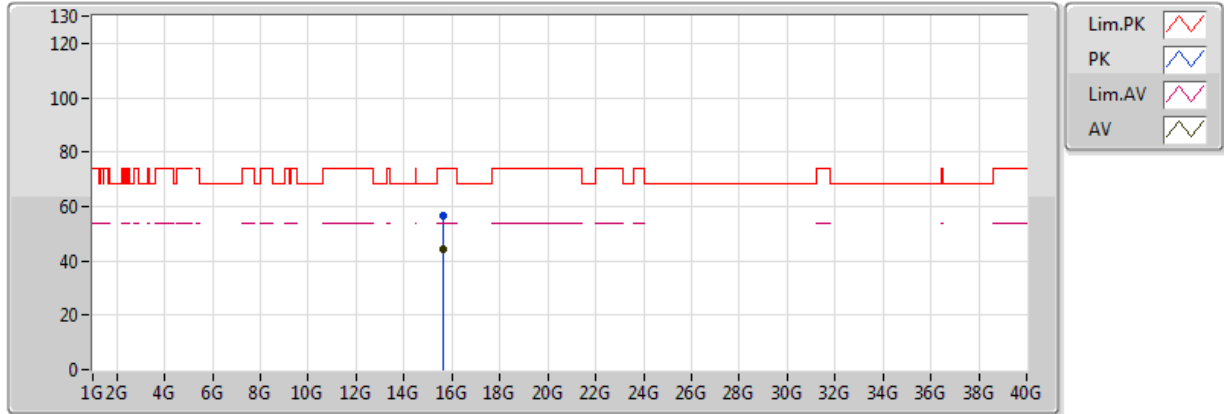


20170425
EUT_Z_4TX
Setting 68
01-W-3-10
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149995G	53.72	54.00	-0.28	4.27	3	V	180	1.86	-
AV	5.224G	104.17	Inf	-Inf	4.43	3	V	180	1.86	-
AV	5.355G	47.60	54.00	-6.40	4.69	3	V	180	1.86	-
PK	5.149995G	66.37	74.00	-7.63	4.27	3	V	180	1.86	-
PK	5.212G	114.82	Inf	-Inf	4.41	3	V	180	1.86	-
PK	5.354G	59.35	74.00	-14.65	4.69	3	V	180	1.86	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

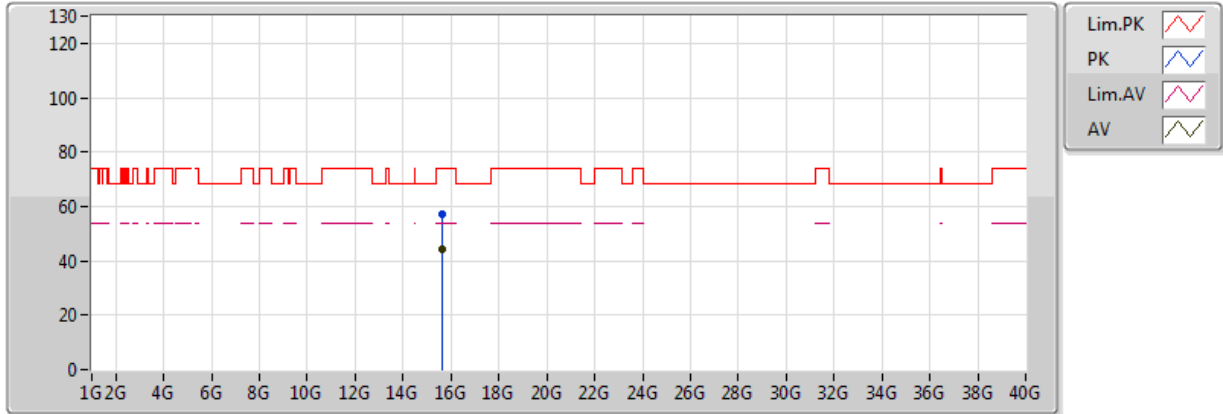


20170426
 EUT_Z_4TX
 Setting 68
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62997G	44.16	54.00	-9.84	13.69	3	V	163	1.16	-
PK	15.63198G	56.46	74.00	-17.54	13.69	3	V	163	1.16	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5210MHz_TX

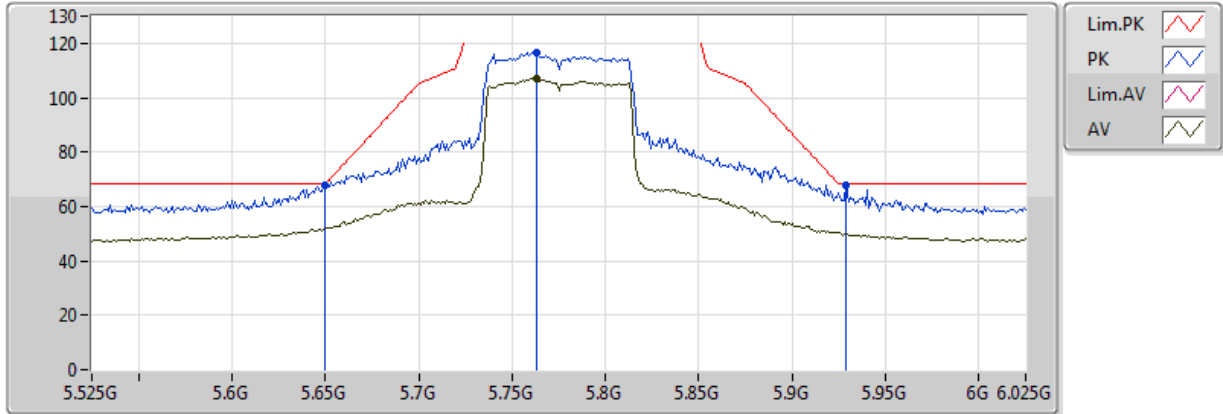


20170426
EUT_Z_4TX
Setting 68
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62971G	44.16	54.00	-9.84	13.69	3	H	177	1.07	-
PK	15.62994G	57.30	74.00	-16.70	13.69	3	H	177	1.07	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

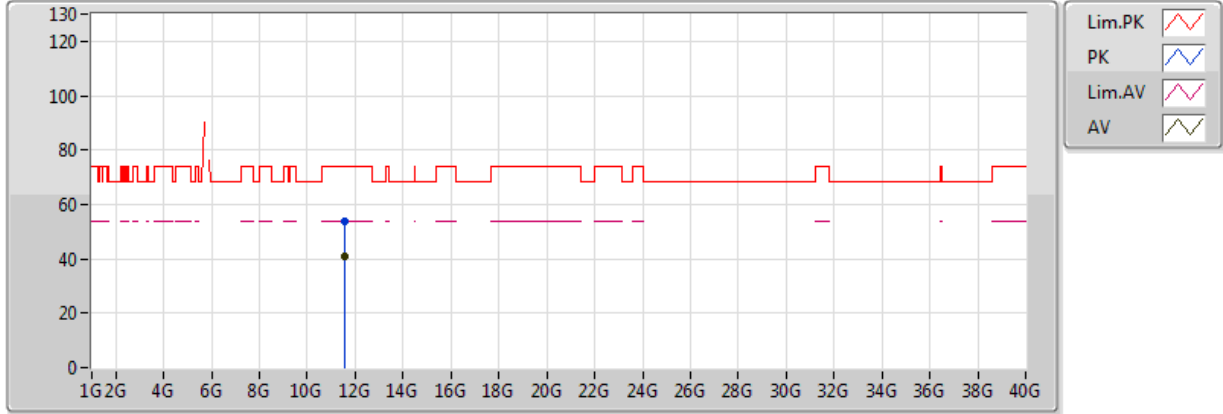


20170425
 EUT_Z_4TX
 Setting 77
 01-W-3-10
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.763G	106.93	Inf	-Inf	5.86	3	V	4	2.45	-
PK	5.65G	67.60	68.20	-0.60	5.53	3	V	4	2.45	-
PK	5.763G	116.56	Inf	-Inf	5.86	3	V	4	2.45	-
PK	5.929G	67.81	68.20	-0.39	6.45	3	V	4	2.45	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5775MHz_TX

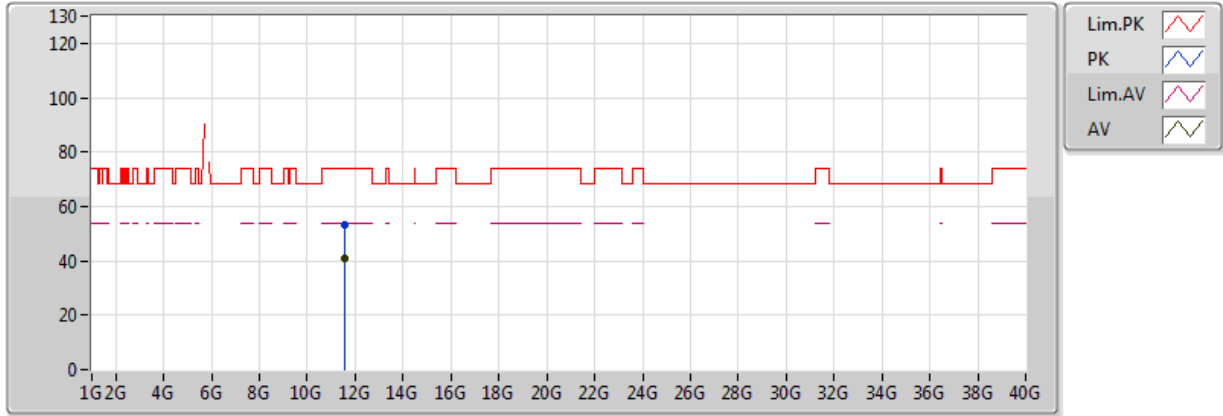


20170425
 EUT_Z_4TX
 Setting 77
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.54974G	40.97	54.00	-13.03	12.07	3	V	40	1.05	-
PK	11.54943G	53.75	74.00	-20.25	12.07	3	V	40	1.05	-

802.11ac VHT80-BF_Nss1,(MCS0)_4TX

5775MHz_TX



20170425
 EUT_Z_4TX
 Setting 77
 01-W-3
 FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.54916G	40.95	54.00	-13.05	12.07	3	H	298	2.09	-
PK	11.54977G	52.99	74.00	-21.01	12.07	3	H	298	2.09	-



Mode: 20 MHz / Port 2

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)			
	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9639	5199.9637	5199.9630	5199.9624
110.00	5199.9635	5199.9625	5199.9622	5199.9615
93.50	5199.9630	5199.9629	5199.9627	5199.9625
Max. Deviation (MHz)	0.0370	0.0375	0.0378	0.0385
Max. Deviation (ppm)	7.12	7.21	7.27	7.40
Result	Pass			

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)			
	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9614	5199.9606	5199.9598	5199.9594
10	5199.9630	5199.9623	5199.9615	5199.9606
20	5199.9635	5199.9626	5199.9616	5199.9609
30	5199.9958	5199.9957	5199.9948	5199.9944
40	5199.9973	5199.9964	5199.9961	5199.9955
Max. Deviation (MHz)	0.0439	0.0445	0.0453	0.0454
Max. Deviation (ppm)	8.44	8.56	8.71	8.73
Result	Pass			

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)			
	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9645	5784.9643	5784.9636	5784.9626
110.00	5784.9635	5784.9627	5784.9617	5784.9615
93.50	5784.9629	5784.9620	5784.9618	5784.9609
Max. Deviation (MHz)	0.0371	0.0380	0.0383	0.0391
Max. Deviation (ppm)	6.41	6.57	6.62	6.76
Result	Pass			

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)			
	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9622	5784.9617	5784.9609	5784.9605
10	5784.9624	5784.9621	5784.9612	5784.9610
20	5784.9635	5784.9632	5784.9625	5784.9618
30	5784.9958	5784.9949	5784.9946	5784.9944
40	5784.9963	5784.9957	5784.9950	5784.9942
Max. Deviation (MHz)	0.0402	0.0407	0.0410	0.0414
Max. Deviation (ppm)	6.95	7.04	7.09	7.16
Result	Pass			



Mode: 40 MHz / Port 2

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)			
	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9637	5189.9635	5189.9627	5189.9617
110.00	5189.9635	5189.9625	5189.9616	5189.9608
93.50	5189.9628	5189.9624	5189.9614	5189.9610
Max. Deviation (MHz)	0.0372	0.0376	0.0386	0.0392
Max. Deviation (ppm)	7.17	7.24	7.44	7.55
Result	Pass			

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)			
	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9616	5189.9609	5189.9604	5189.9598
10	5189.9627	5189.9619	5189.9612	5189.9606
20	5189.9635	5189.9631	5189.9627	5189.9617
30	5189.9958	5189.9957	5189.9952	5189.9951
40	5189.9961	5189.9952	5189.9943	5189.9942
Max. Deviation (MHz)	0.0428	0.0434	0.0443	0.0446
Max. Deviation (ppm)	8.25	8.36	8.54	8.59
Result	Pass			

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)			
	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9643	5754.9642	5754.9632	5754.9626
110.00	5754.9635	5754.9625	5754.9624	5754.9615
93.50	5754.9628	5754.9622	5754.9615	5754.9611
Max. Deviation (MHz)	0.0372	0.0378	0.0385	0.0389
Max. Deviation (ppm)	6.46	6.57	6.69	6.76
Result	Pass			

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)			
	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9623	5754.9615	5754.9611	5754.9603
10	5754.9633	5754.9628	5754.9624	5754.9620
20	5754.9635	5754.9627	5754.9620	5754.9617
30	5754.9958	5754.9952	5754.9945	5754.9936
40	5754.9959	5754.9955	5754.9952	5754.9951
Max. Deviation (MHz)	0.0387	0.0392	0.0398	0.0399
Max. Deviation (ppm)	6.72	6.81	6.92	6.93
Result	Pass			



Mode: 80 MHz / Port 2

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)			
	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9642	5209.9638	5209.9633	5209.9631
110.00	5209.9635	5209.9630	5209.9629	5209.9624
93.50	5209.9633	5209.9630	5209.9629	5209.9626
Max. Deviation (MHz)	0.0367	0.0370	0.0371	0.0376
Max. Deviation (ppm)	7.04	7.10	7.12	7.22
Result	Pass			

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)			
	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9614	5209.9604	5209.9596	5209.9592
10	5209.9620	5209.9618	5209.9616	5209.9607
20	5209.9635	5209.9625	5209.9622	5209.9612
30	5209.9958	5209.9957	5209.9947	5209.9938
40	5209.9964	5209.9955	5209.9953	5209.9945
Max. Deviation (MHz)	0.0403	0.0407	0.0413	0.0420
Max. Deviation (ppm)	7.74	7.81	7.93	8.06
Result	Pass			

Voltage vs. Frequency Stability

Voltage (V)	Measurement Frequency (MHz)			
	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9645	5774.9641	5774.9638	5774.9636
110.00	5774.9635	5774.9630	5774.9620	5774.9614
93.50	5774.9631	5774.9622	5774.9619	5774.9617
Max. Deviation (MHz)	0.0369	0.0378	0.0381	0.0386
Max. Deviation (ppm)	6.39	6.55	6.60	6.68
Result	Pass			

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)			
	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9619	5774.9610	5774.9600	5774.9596
10	5774.9626	5774.9616	5774.9610	5774.9609
20	5774.9635	5774.9633	5774.9632	5774.9622
30	5774.9958	5774.9953	5774.9944	5774.9940
40	5774.9960	5774.9956	5774.9948	5774.9939
Max. Deviation (MHz)	0.0400	0.0409	0.0417	0.0427
Max. Deviation (ppm)	6.93	7.08	7.22	7.39
Result	Pass			

