FCC Test Report

Equipment	:	Wireless-AC9600 Dual-band Gigabit Router, ROG Rapture Aura 10G Gaming Router, Ultimate Gaming Router, ASUS ROG Raputre AC9600 Ultimate 10G Gaming Router, Wireless-AC9600 Dual-band 10G Gigabit Router
Brand Name	:	ASUS
Model No.	:	GT-AC9600, RT-AC9600R, ROG Rapture GT-AC9600, ROG Aura Rapture GT-AC9600
FCC ID	:	MSQ-RTG03H
Standard	:	47 CFR FCC Part 15.407
Operating Band	:	5150 MHz – 5250 MHz 5725 MHz – 5850 MHz
Applicant	:	ASUSTeK COMPUTER INC. 4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Manufacturer (1)	:	ASKEY TECHNOLOGY (JIANG SU) LTD NO1388, Jiao Tong Road, Wujiang Economic Technological Development Area Jiangsu Province 215200 China
Manufacturer (2)	:	Compal Networking (KunShan) Co., LTD. No. 520, Nabbang Rd., Economic & Technical Development Zone Kunshan, Jiangsu Province China
Function	:	☐ Outdoor; ☒ Indoor; ☐ Fixed P2P ☐ Client

The product sample received on Jan. 09, 2017 and completely tested on Apr. 21, 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.

Testing Laboratory
1190

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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

Revision History

Report No.	Version	Description	Issued Date
FR690618AB	Rev. 01	Initial issue of report	Apr. 26, 2017

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	8TX
5.15-5.25GHz	802.11ac VHT20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11a	20	8TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ac VHT80	80	8TX

Note: For 802.11n/ac supports 2~8stream function only.

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, 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	P/N	Type	Connector	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
					2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	Whayu	C660-510401-A	Dipole	I-PEX	-	3.5	-	1.13	-	2.37
2	Whayu	C660-510402-A	Dipole	I-PEX	-	3.5	-	0.9	-	2.6
3	Whayu	C660-510403-A	Dipole	I-PEX	-	3.5	-	0.6	-	2.9
4	Whayu	C660-510404-A	Dipole	I-PEX	-	3.5	-	0.5	-	3
5	Whayu	C660-510404-A	Dipole	I-PEX	2.5	3.5	0.37	0.5	2.13	3
6	Whayu	C660-510403-A	Dipole	I-PEX	2.5	3.5	0.4	0.6	2.1	2.9
7	Whayu	C660-510405-A	Dipole	I-PEX	2.5	3.5	0.48	0.68	2.02	2.82
8	Whayu	C660-510402-A	Dipole	I-PEX	2.5	3.5	0.6	0.9	1.9	2.6

Note: The EUT has eight antennas.

For 2.4GHz WLAN Function (4TX/4RX):

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

For 5GHz WLAN Function (8TX/8RX):

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.912	0.4	434.375u	3k
802.11ac VHT20	0.988	0.052	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT80	0.959	0.182	1.141m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming

1.1.5 Table for Multiple Listing

1. The EUT has five equipment names which are identical to each other in all aspects except for the following table:

Equipment Name	Description
Wireless-AC9600 Dual-band Gigabit Router	All the equipment names are identical, the different equipment names served as marketing strategy.
ROG Rapture Aura 10G Gaming Router	
Ultimate Gaming Router	
ASUS ROG Raputre AC9600 Ultimate 10G Gaming Router	
Wireless-AC9600 Dual-band 10G Gigabit Router	

From the above models, equipment name: Wireless-AC9600 Dual-band Gigabit Router, model number: GT-AC9600 was selected as representative model for the test and its data was recorded in this report.

2. The EUT has four model numbers which are identical to each other in all aspects except for the following table:

Model No.	Description
GT-AC9600	All the models are identical, the different model numbers served as marketing strategy.
RT-AC9600R	
ROG Rapture GT-AC9600	
ROG Aura Rapture GT-AC9600	

From the above models, equipment name: Wireless-AC9600 Dual-band Gigabit Router, model number: GT-AC9600 was selected as representative model for the test and its data was recorded in this report.

3. The EUT has two SKU which are identical to each other in all aspects except for the following table:

SKU / Description	SKU 1	SKU 2
Vendor	MINGTEK	SWAP
LAN port transformer (Model No.)	HN8031VG	NS777202A

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 v01r03
- FCC KDB 644545 D03 v01
- FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	20°C / 55%	Apr. 13, 2017~Apr. 18, 2017
Radiated	03CH01-CB	Mason Chen, Joy Tseng	21°C / 50%	Apr. 08, 2017~Apr. 21, 2017
AC Conduction	CO01-CB	Da Deng	23°C / 60%	Apr. 18, 2017~Apr. 20, 2017

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

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_(6Mbps)_8TX	-
5180MHz	17/16
5200MHz	17/16
5240MHz	17/16
5745MHz	23/17
5785MHz	23/18
5825MHz	23/18
802.11ac VHT20_Nss2,(MCS0)_8TX	-
5180MHz	17/16
5200MHz	17/16
5240MHz	17/16
5745MHz	23/17
5785MHz	23/18
5825MHz	23/18
802.11ac VHT40_Nss2,(MCS0)_8TX	-
5190MHz	16/15
5230MHz	19/18
5755MHz	22/16
5795MHz	20/14
802.11ac VHT80_Nss2,(MCS0)_8TX	-
5210MHz	14/13
5775MHz	21/15
802.11ac VHT20_Nss4,(MCS0)_8TX	-
5240MHz	24/23

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.

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	CTX
1	SKU 1 + Adapter 1 - 2.4GHz WLAN Function
2	SKU 1 + Adapter 1 - 5GHz WLAN Function
3	SKU 1 + Adapter 2 - 2.4GHz WLAN Function
4	SKU 1 + Adapter 2 - 5GHz WLAN Function
5	SKU 1 + Adapter 3 - 2.4GHz WLAN Function
6	SKU 1 + Adapter 3 - 5GHz WLAN Function
For operating mode 4 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density 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	CTX
1	SKU 1 + Adapter 1 - 2.4GHz WLAN Function
2	SKU 1 + Adapter 1 - 5GHz WLAN Function
3	SKU 1 + Adapter 2 - 2.4GHz WLAN Function
4	SKU 1 + Adapter 2 - 5GHz WLAN Function
5	SKU 1 + Adapter 3 - 2.4GHz WLAN Function
6	SKU 1 + Adapter 3 - 5GHz WLAN Function
For operating mode 4 is the worst case and it was record in this test report.	
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	2.4GHz WLAN + 5GHz WLAN
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	2.4GHz WLAN + 5GHz WLAN
Refer to Sporton Test Report No.: FA690618 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Z axis position.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Power	**Brand**	**Model No.**	**Rating**
Adapter 1	DELTA	ADP-65DW B	INPUT: 100-240V~50-60Hz 1.5A OUTPUT: 19V═3.42A
Adapter 2	LITEON	PA-1650-63	INPUT: 100-240V~50-60Hz 1.7A OUTPUT: 19V═3.42A
Adapter 3	PI	AD887320	INPUT: 100-240V~50/60Hz 1.5A OUTPUT: 19V═3.42A
Other			
RJ-45 cable*1: Non-shielded, 1.5m			

Note: Adapter does not affect the radio tests, there is only adapter 2 tested and recorded in this report.

2.5 Support Equipment

For Test Site No: CO01-CB

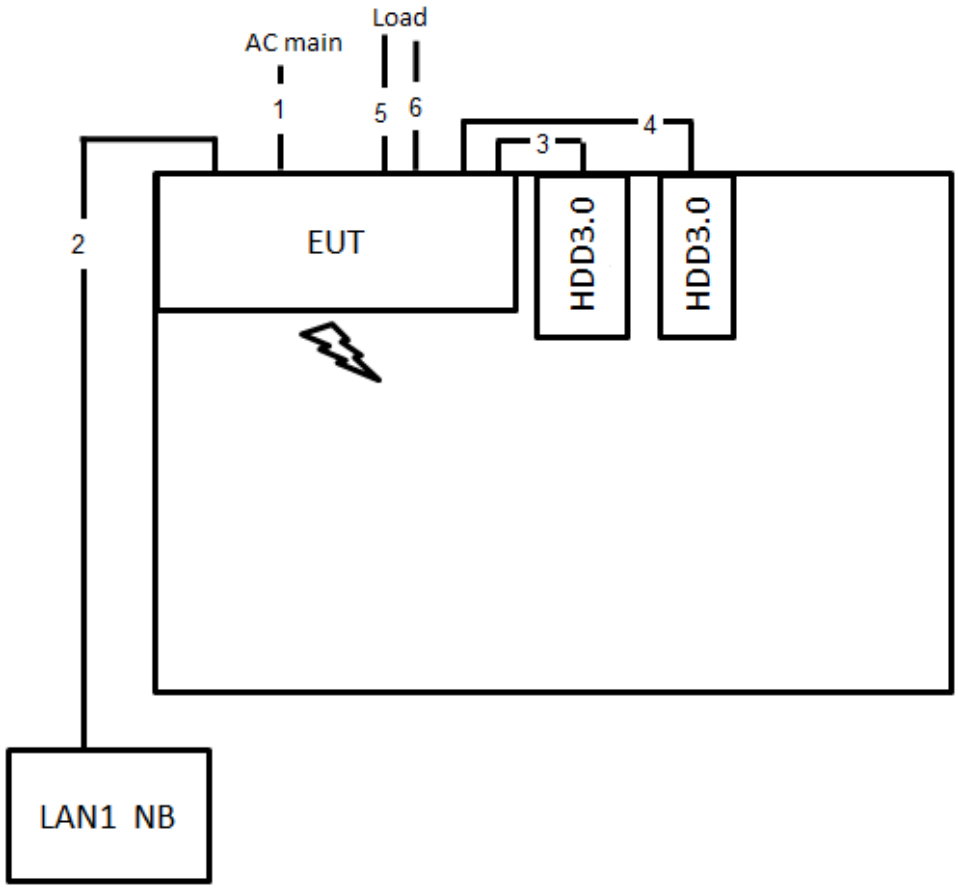
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E6430	DoC
2	HDD3.0*2	WD	WDBACY5000AWT	DoC

For Test Site No: 03CH01-CB and TH01-CB

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

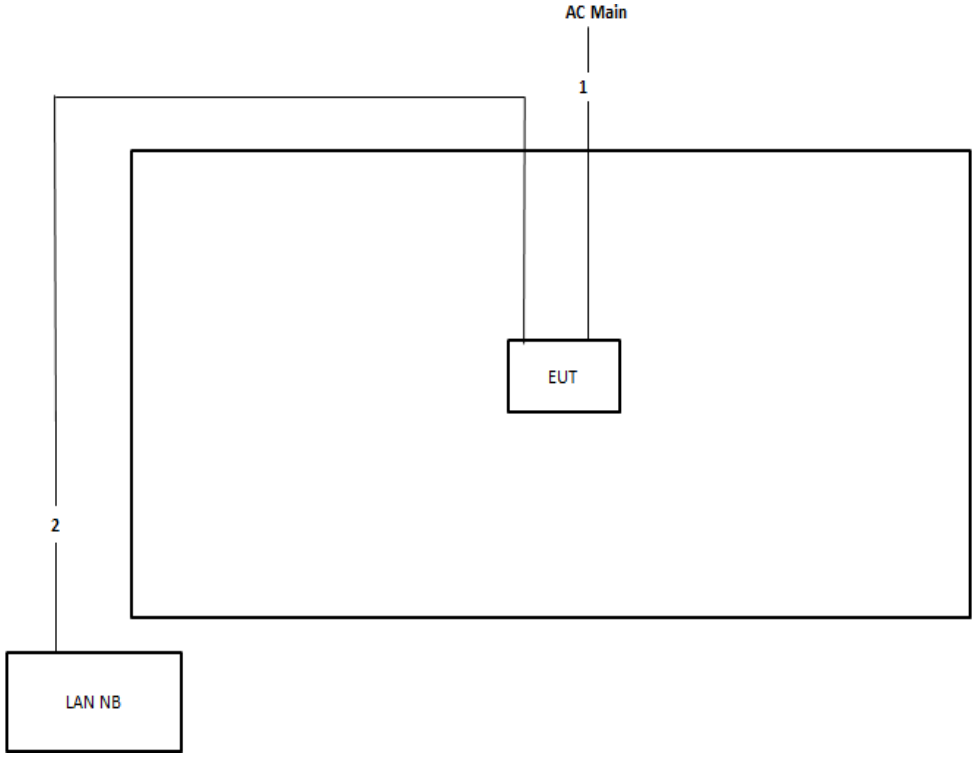
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	Power cable	No	2.3m
2	RJ-45 cable	No	10m
3	USB cable	Yes	0.1m
4	USB cable	Yes	0.1m
5	RJ-45 cable*9	Yes	1m
6	Fiber cable	Yes	10m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	Power cable	No	2.3m
2	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

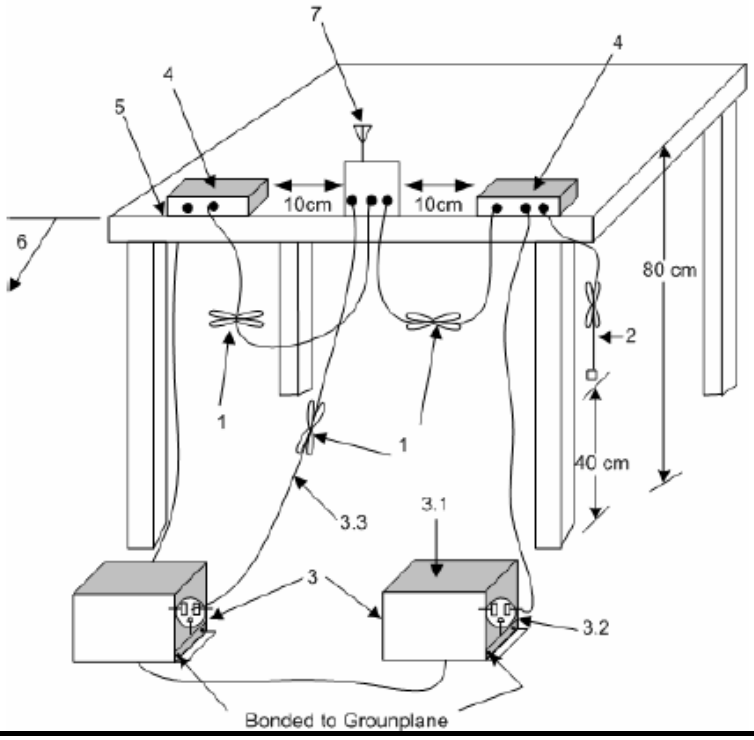
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

3.2.2 Measuring Instruments

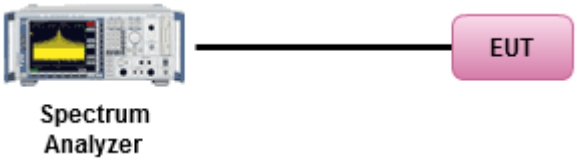
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 23 dBi, then P_{Out} = 17 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6)..
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
	▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for 0° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

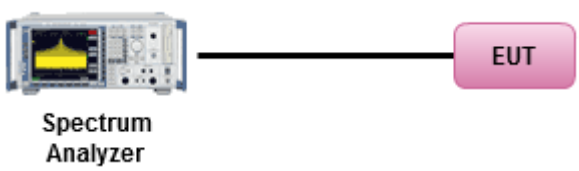
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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

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

3.5.2 Measuring Instruments

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

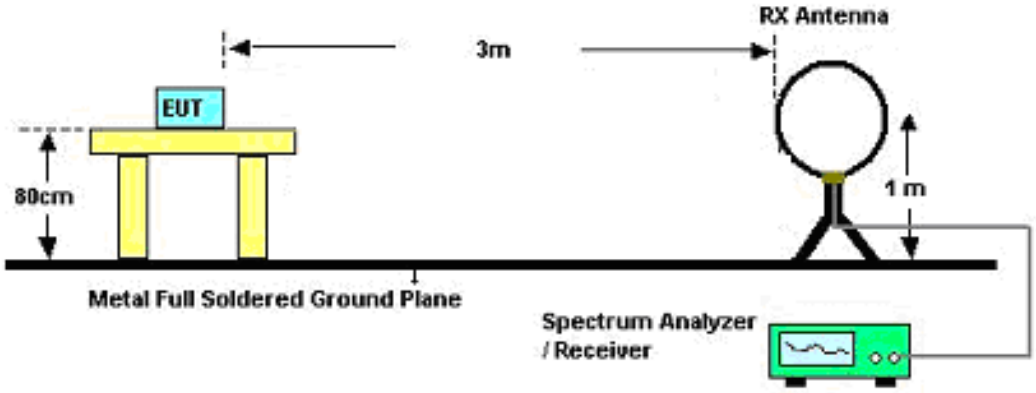
3.5.3 Test Procedures

Test Method		
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
		☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
		☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
▪ For radiated measurement.		
	▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.	
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	
▪ The any unwanted emissions level shall not exceed the fundamental emission level.		
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.		

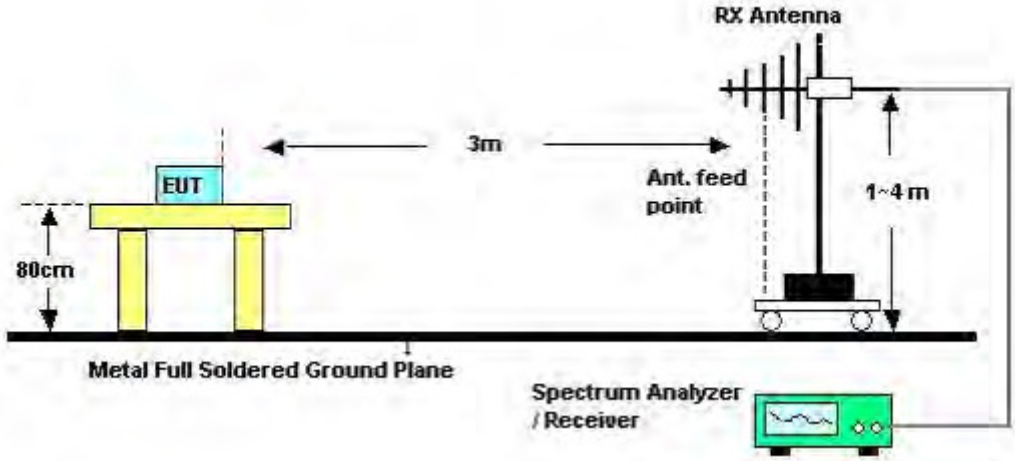
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

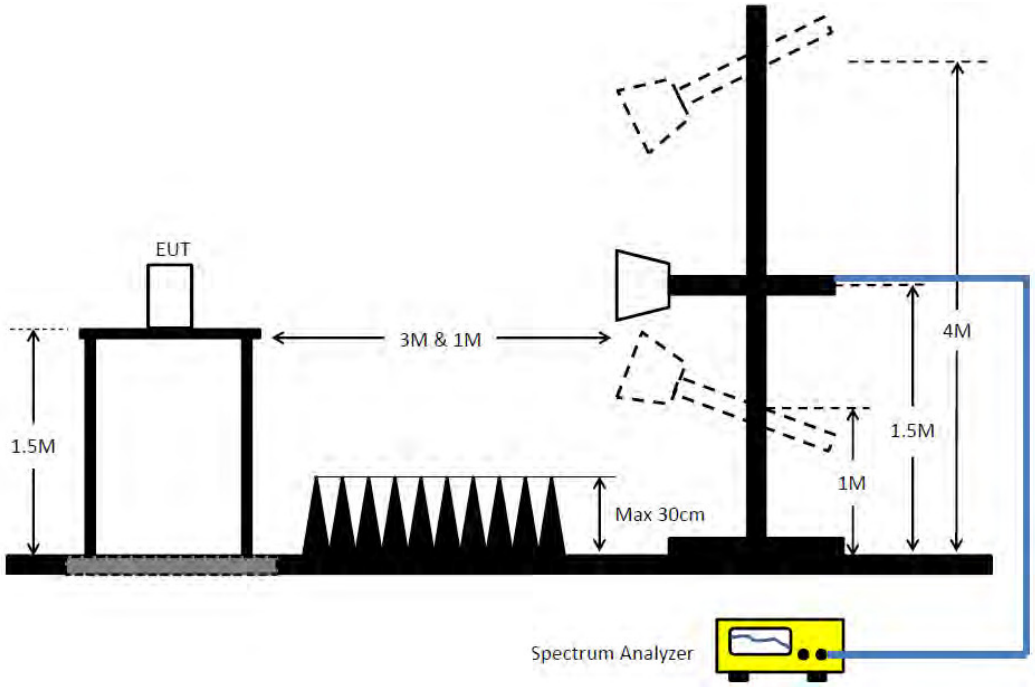
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

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

3.6.2 Measuring Instruments

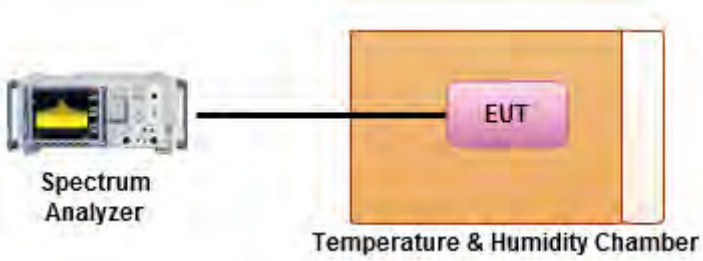
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup

Frequency Stability



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)
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. 21, 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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-l0-7	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)

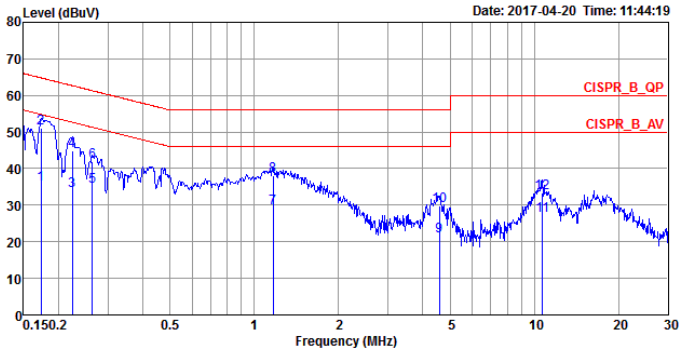
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	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.

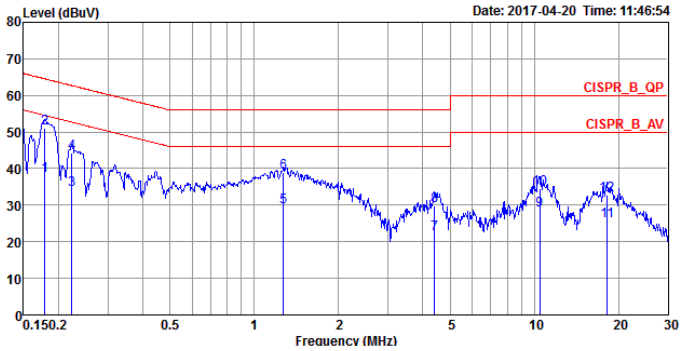
AC Power-line Conducted Emissions Result			
Operating Mode	4	**Power Phase**	Neutral
Operating Function	CTX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1731	35.84	-18.97	54.81	25.84	9.96	0.04	Average	NEUTRAL
2	0.1731	50.98	-13.83	64.81	40.98	9.96	0.04	QP	NEUTRAL
3	0.2244	33.99	-18.67	52.66	23.96	9.98	0.05	Average	NEUTRAL
4	0.2244	44.90	-17.76	62.66	34.87	9.98	0.05	QP	NEUTRAL
5	0.2644	35.10	-16.19	51.29	25.08	9.97	0.05	Average	NEUTRAL
6	0.2644	42.05	-19.24	61.29	32.03	9.97	0.05	QP	NEUTRAL
7	1.1657	29.37	-16.63	46.00	19.33	9.98	0.06	Average	NEUTRAL
8	1.1657	38.10	-17.90	56.00	28.06	9.98	0.06	QP	NEUTRAL
9	4.5736	21.57	-24.43	46.00	11.34	10.09	0.14	Average	NEUTRAL
10	4.5736	29.83	-26.17	56.00	19.60	10.09	0.14	QP	NEUTRAL
11	10.6763	27.10	-22.90	50.00	16.74	10.17	0.19	Average	NEUTRAL
12	10.6763	33.38	-26.62	60.00	23.02	10.17	0.19	QP	NEUTRAL

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

AC Power-line Conducted Emissions Result			
Operating Mode	4	**Power Phase**	Line
Operating Function	CTX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1787	38.02	-16.53	54.55	28.03	9.94	0.05	Average	LINE
2	0.1787	51.09	-13.46	64.55	41.10	9.94	0.05	QP	LINE
3	0.2232	34.33	-18.37	52.70	24.36	9.92	0.05	Average	LINE
4	0.2232	44.20	-18.50	62.70	34.23	9.92	0.05	QP	LINE
5	1.2688	29.55	-16.45	46.00	19.49	9.99	0.07	Average	LINE
6	1.2688	38.82	-17.18	56.00	28.76	9.99	0.07	QP	LINE
7	4.4071	22.04	-23.96	46.00	11.95	9.96	0.13	Average	LINE
8	4.4071	29.81	-26.19	56.00	19.72	9.96	0.13	QP	LINE
9	10.4524	28.75	-21.25	50.00	18.49	10.07	0.19	Average	LINE
10	10.4524	34.59	-25.41	60.00	24.33	10.07	0.19	QP	LINE
11	18.2316	25.82	-24.18	50.00	15.38	10.20	0.24	Average	LINE
12	18.2316	32.86	-27.14	60.00	22.42	10.20	0.24	QP	LINE

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

802.11a_(6Mbps), 802.11ac VHT20_Nss2,(MCS0), 802.11ac VHT40_Nss2,(MCS0) and 802.11ac VHT80_Nss2,(MCS0)
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_8TX	-	-	-	-	-
5.15-5.25GHz	23.575M	16.667M	16M7D1D	22.075M	16.542M
5.725-5.85GHz	16.425M	16.667M	16M7D1D	15.975M	16.492M
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	24.5M	17.841M	17M8D1D	23.95M	17.716M
5.725-5.85GHz	17.7M	17.866M	17M9D1D	16.9M	17.716M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	42.9M	36.332M	36M3D1D	42.3M	36.182M
5.725-5.85GHz	36.4M	36.382M	36M4D1D	35.4M	36.082M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	87.4M	75.762M	75M8D1D	85.7M	75.562M
5.725-5.85GHz	75.7M	75.762M	75M8D1D	73.4M	75.462M

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;

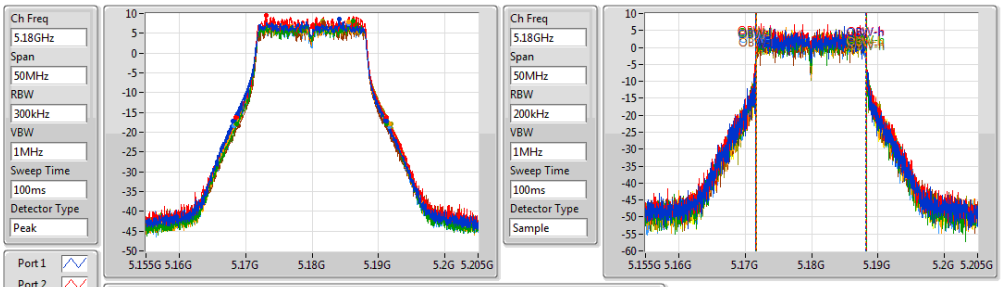
Result

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)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
11a_Nss2_5180	Pass	Inf	23.2M	16.542 M	22.675 M	16.617 M	22.525 M	16.617 M	23.025 M	16.542 M	22.275 M	16.567 M	23.425 M	16.567 M	23.375 M	16.567 M	23.325 M	16.617 M
11a_Nss2_5200	Pass	Inf	23.575 M	16.567 M	22.675 M	16.567 M	22.475 M	16.617 M	22.825 M	16.542 M	22.075 M	16.567 M	23.475 M	16.592 M	23.175 M	16.592 M	23.175 M	16.542 M
11a_Nss2_5240	Pass	Inf	23.15 M	16.567 M	22.75 M	16.667 M	22.5M	16.617 M	23.075 M	16.567 M	22.25 M	16.592 M	23.45 M	16.567 M	23.4M	16.542 M	23.25 M	16.542 M
11a_Nss2_5745	Pass	500k	16.325 M	16.542 M	16.325 M	16.592 M	16.35 M	16.642 M	16.35 M	16.567 M	16.325 M	16.592 M	16.325 M	16.642 M	16.35 M	16.567 M	16.35 M	16.542 M
11a_Nss2_5785	Pass	500k	16.325 M	16.517 M	16.35 M	16.642 M	16.35 M	16.667 M	16.35 M	16.617 M	16.35 M	16.567 M	16.325 M	16.592 M	16.35 M	16.542 M	16.325 M	16.492 M
11a_Nss2_5825	Pass	500k	16.05 M	16.567 M	16.35 M	16.592 M	16.325 M	16.592 M	16.325 M	16.567 M	16.425 M	16.592 M	16.35 M	16.617 M	16.325 M	16.517 M	15.975 M	16.517 M
VHT20_Nss2_5180	Pass	Inf	24.375 M	17.766 M	24.25 M	17.791 M	24.35 M	17.741 M	24.35 M	17.841 M	23.95 M	17.791 M	24.4M	17.741 M	24.1M	17.791 M	24.4M	17.791 M
VHT20_Nss2_5200	Pass	Inf	24.35 M	17.791 M	24.15 M	17.741 M	24.375 M	17.791 M	24.15 M	17.741 M	24.25 M	17.716 M	24.325 M	17.791 M	24.425 M	17.766 M	24.35 M	17.816 M
VHT20_Nss2_5240	Pass	Inf	24.225 M	17.766 M	24M	17.766 M	24.425 M	17.791 M	24.375 M	17.741 M	24.5M	17.766 M	24.375 M	17.766 M	24.225 M	17.791 M	24.175 M	17.816 M
VHT20_Nss2_5745	Pass	500k	17.575 M	17.791 M	17.575 M	17.741 M	17.6M	17.841 M	17.575 M	17.766 M	17.575 M	17.741 M	17.575 M	17.866 M	17.625 M	17.716 M	17.575 M	17.791 M
VHT20_Nss2_5785	Pass	500k	17.6M	17.841 M	17.55 M	17.741 M	17.675 M	17.791 M	17.6M	17.741 M	17.575 M	17.741 M	17.575 M	17.766 M	17.575 M	17.741 M	17.7M	17.816 M
VHT20_Nss2_5825	Pass	500k	17.575 M	17.791 M	17.625 M	17.791 M	17.575 M	17.791 M	17.55 M	17.741 M	16.9M	17.741 M	17.625 M	17.741 M	17.6M	17.791 M	17.625 M	17.816 M
VHT40_Nss2_5190	Pass	Inf	42.4M	36.232 M	42.9M	36.182 M	42.65 M	36.282 M	42.85 M	36.232 M	42.5M	36.232 M	42.6M	36.232 M	42.8M	36.182 M	42.3M	36.232 M
VHT40_Nss2_5230	Pass	Inf	42.35 M	36.232 M	42.7M	36.232 M	42.55 M	36.232 M	42.75 M	36.182 M	42.75 M	36.282 M	42.5M	36.182 M	42.7M	36.332 M	42.55 M	36.232 M
VHT40_Nss2_5755	Pass	500k	35.65 M	36.232 M	35.4M	36.182 M	36.4M	36.282 M	36.35 M	36.182 M	36.35 M	36.382 M	36.35 M	36.132 M	36.35 M	36.232 M	35.45 M	36.282 M
VHT40_Nss2_5795	Pass	500k	36.05 M	36.182 M	36.3M	36.332 M	36.3M	36.182 M	36.35 M	36.332 M	36.3M	36.232 M	36.3M	36.232 M	36.3M	36.232 M	36M	36.082 M
VHT80_Nss2_5210	Pass	Inf	86.3M	75.562 M	87.3M	75.562 M	85.7M	75.662 M	87.4M	75.662 M	87.3M	75.662 M	86.2M	75.762 M	87.4M	75.562 M	86.6M	75.662 M
VHT80_Nss2_5775	Pass	500k	73.8M	75.462 M	73.8M	75.462 M	75.7M	75.562 M	75.4M	75.662 M	74.8M	75.762 M	75.1M	75.562 M	73.4M	75.462 M	74.2M	75.462 M

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

802.11a_(6Mbps)_8TX **EBW**

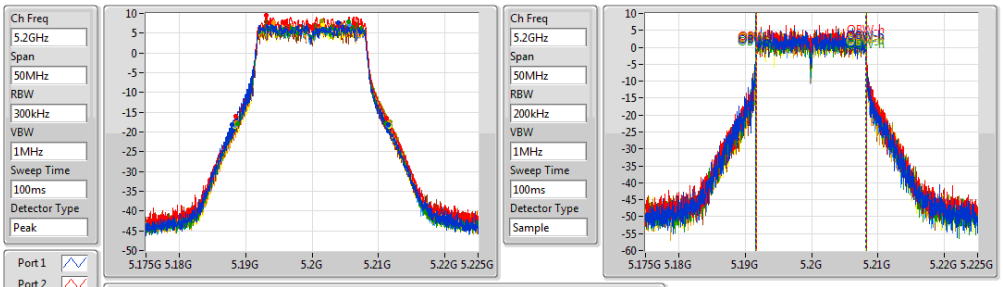
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.2M	5.168075G	5.191275G	16.542M	5.171629G	5.188171G	Inf	1
22.675M	5.168475G	5.19115G	16.617M	5.171604G	5.188221G	Inf	2
22.525M	5.1687G	5.191225G	16.617M	5.171604G	5.188221G	Inf	3
23.025M	5.16855G	5.191575G	16.542M	5.171654G	5.188196G	Inf	4
22.275M	5.168875G	5.19115G	16.567M	5.171654G	5.188221G	Inf	5
23.425M	5.16845G	5.191875G	16.567M	5.171654G	5.188221G	Inf	6
23.375M	5.1683G	5.191675G	16.567M	5.171654G	5.188221G	Inf	7
23.325M	5.1685G	5.191825G	16.617M	5.171604G	5.188221G	Inf	8

802.11a_(6Mbps)_8TX **EBW**

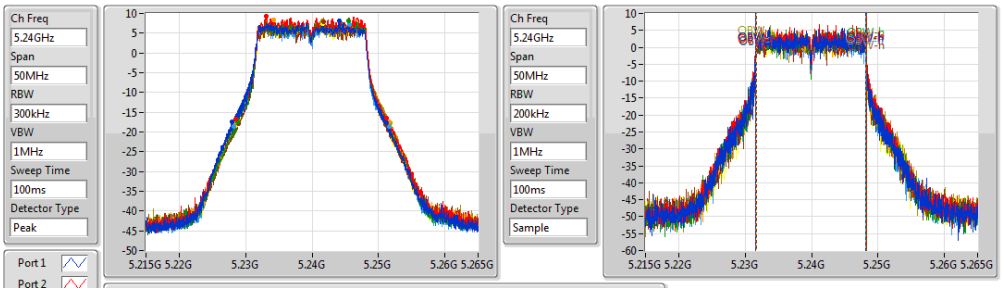
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.575M	5.1879G	5.211475G	16.567M	5.191604G	5.208171G	Inf	1
22.675M	5.18855G	5.211225G	16.567M	5.191654G	5.208221G	Inf	2
22.475M	5.188725G	5.2112G	16.617M	5.191604G	5.208221G	Inf	3
22.825M	5.188625G	5.21145G	16.542M	5.191654G	5.208196G	Inf	4
22.075M	5.18895G	5.211025G	16.567M	5.191679G	5.208246G	Inf	5
23.475M	5.188325G	5.2118G	16.592M	5.191629G	5.208221G	Inf	6
23.175M	5.188325G	5.2115G	16.592M	5.191604G	5.208196G	Inf	7
23.175M	5.188425G	5.2116G	16.542M	5.191654G	5.208196G	Inf	8

802.11a_(6Mbps)_8TX **EBW**

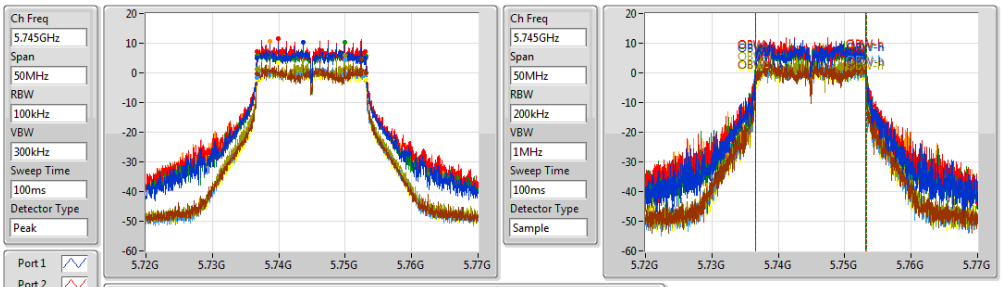
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.15M	5.228G	5.25115G	16.567M	5.231629G	5.248196G	Inf	1
22.75M	5.22845G	5.2512G	16.667M	5.231579G	5.248246G	Inf	2
22.5M	5.228725G	5.251225G	16.617M	5.231604G	5.248221G	Inf	3
23.075M	5.22855G	5.251625G	16.567M	5.231629G	5.248196G	Inf	4
22.25M	5.228875G	5.251125G	16.592M	5.231654G	5.248246G	Inf	5
23.45M	5.228375G	5.251825G	16.567M	5.231629G	5.248196G	Inf	6
23.4M	5.228225G	5.251625G	16.542M	5.231654G	5.248196G	Inf	7
23.25M	5.22845G	5.2517G	16.542M	5.231654G	5.248196G	Inf	8

802.11a_(6Mbps)_8TX **EBW**

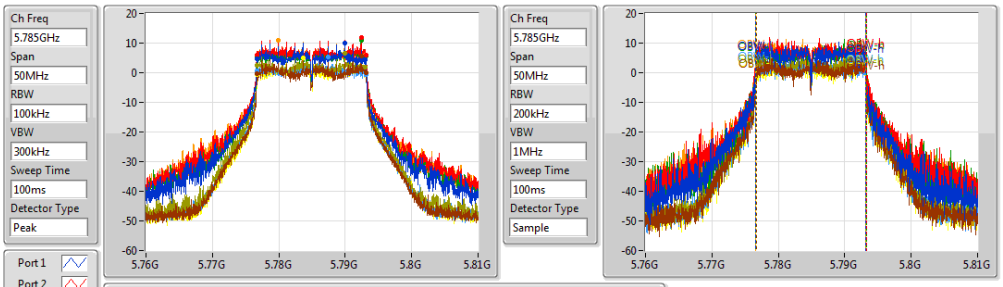
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.73675G	5.753075G	16.542M	5.736629G	5.753171G	500k	1
16.325M	5.73675G	5.753075G	16.592M	5.736604G	5.753196G	500k	2
16.35M	5.73675G	5.7531G	16.642M	5.736579G	5.753221G	500k	3
16.35M	5.73675G	5.7531G	16.567M	5.736604G	5.753171G	500k	4
16.325M	5.736775G	5.7531G	16.592M	5.736629G	5.753221G	500k	5
16.325M	5.73675G	5.753075G	16.642M	5.736554G	5.753196G	500k	6
16.35M	5.736725G	5.753075G	16.567M	5.736604G	5.753171G	500k	7
16.35M	5.73675G	5.7531G	16.542M	5.736604G	5.753146G	500k	8

802.11a_(6Mbps)_8TX **EBW**

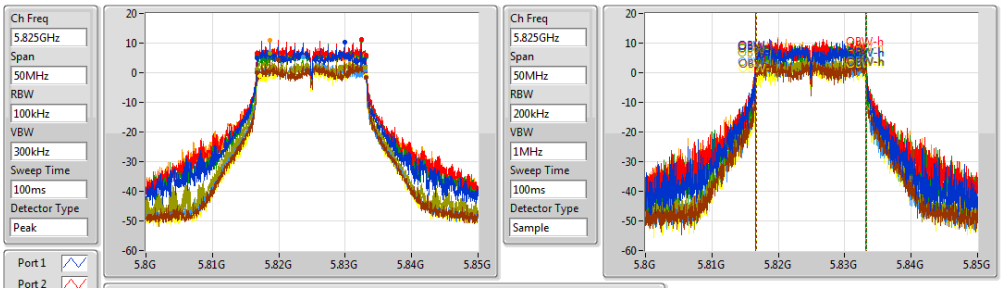
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.77675G	5.793075G	16.517M	5.776629G	5.793146G	500k	1
16.35M	5.77675G	5.7931G	16.642M	5.776579G	5.793221G	500k	2
16.35M	5.77675G	5.7931G	16.667M	5.776604G	5.793271G	500k	3
16.35M	5.776725G	5.793075G	16.617M	5.776579G	5.793196G	500k	4
16.35M	5.77675G	5.7931G	16.567M	5.776654G	5.793221G	500k	5
16.325M	5.77675G	5.793075G	16.592M	5.776579G	5.793171G	500k	6
16.35M	5.77675G	5.7931G	16.542M	5.776604G	5.793146G	500k	7
16.325M	5.776775G	5.7931G	16.492M	5.776679G	5.793171G	500k	8

802.11a_(6Mbps)_8TX **EBW**

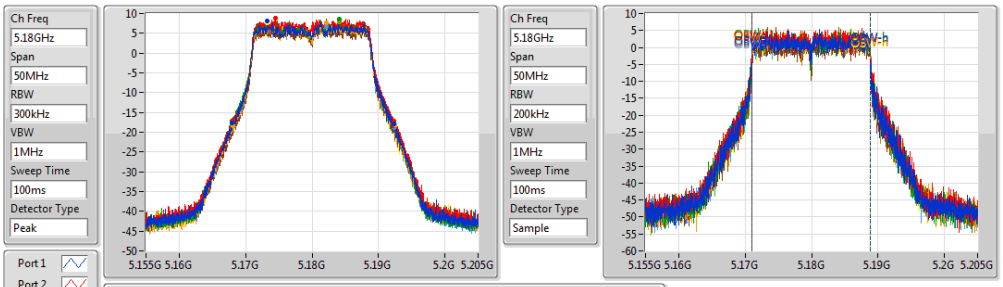
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.05M	5.81675G	5.8328G	16.567M	5.816579G	5.833146G	500k	1
16.35M	5.81675G	5.8331G	16.592M	5.816604G	5.833196G	500k	2
16.325M	5.816775G	5.8331G	16.592M	5.816629G	5.833221G	500k	3
16.325M	5.81675G	5.833075G	16.567M	5.816604G	5.833171G	500k	4
16.425M	5.81675G	5.833175G	16.592M	5.816654G	5.833246G	500k	5
16.35M	5.816725G	5.833075G	16.617M	5.816529G	5.833146G	500k	6
16.325M	5.81675G	5.833075G	16.517M	5.816629G	5.833146G	500k	7
15.975M	5.817125G	5.8331G	16.517M	5.816679G	5.833196G	500k	8

802.11ac VHT20_Nss2,(MCS0)_8TX **EBW**

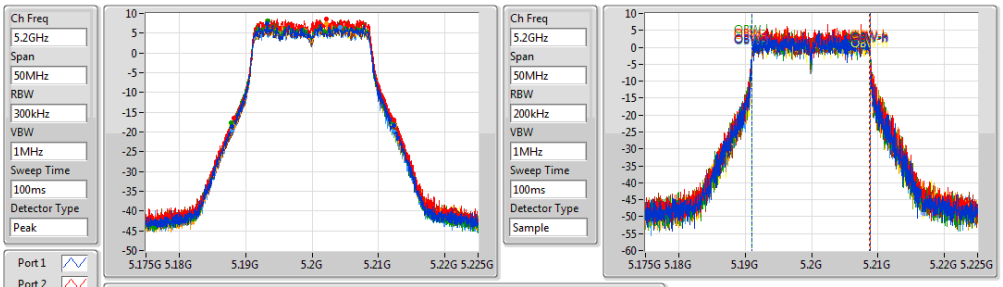
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.375M	5.167925G	5.1923G	17.766M	5.171029G	5.188796G	Inf	1
24.25M	5.1681G	5.19235G	17.791M	5.171029G	5.188821G	Inf	2
24.35M	5.167925G	5.192275G	17.741M	5.171054G	5.188796G	Inf	3
24.35M	5.16805G	5.1924G	17.841M	5.171004G	5.188846G	Inf	4
23.95M	5.168275G	5.192225G	17.791M	5.171054G	5.188846G	Inf	5
24.4M	5.1679G	5.1923G	17.741M	5.171079G	5.188821G	Inf	6
24.1M	5.16825G	5.19235G	17.791M	5.171029G	5.188821G	Inf	7
24.4M	5.168G	5.1924G	17.791M	5.171029G	5.188821G	Inf	8

802.11ac VHT20_Nss2,(MCS0)_8TX **EBW**

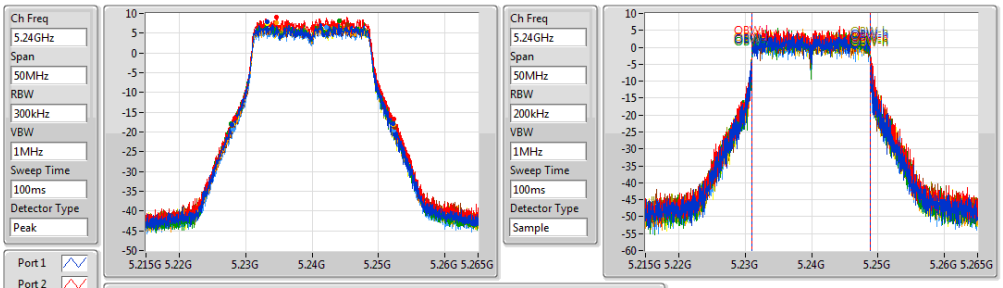
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.35M	5.188G	5.21235G	17.791M	5.191004G	5.208796G	Inf	1
24.15M	5.1882G	5.21235G	17.741M	5.191054G	5.208796G	Inf	2
24.375M	5.187875G	5.21225G	17.791M	5.191029G	5.208821G	Inf	3
24.15M	5.18825G	5.2124G	17.741M	5.191054G	5.208796G	Inf	4
24.25M	5.18815G	5.2124G	17.716M	5.191054G	5.208771G	Inf	5
24.325M	5.187925G	5.21225G	17.791M	5.191029G	5.208821G	Inf	6
24.425M	5.1879G	5.212325G	17.766M	5.191054G	5.208821G	Inf	7
24.35M	5.187875G	5.212225G	17.816M	5.191004G	5.208821G	Inf	8

802.11ac VHT20_Nss2,(MCS0)_8TX **EBW**

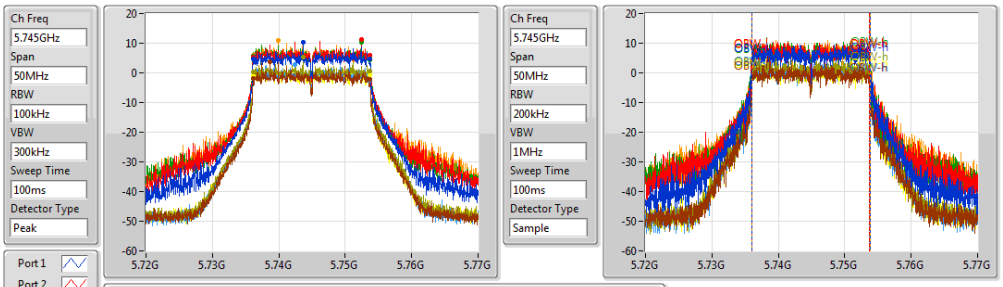
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.225M	5.227925G	5.25215G	17.766M	5.231029G	5.248796G	Inf	1
24M	5.22835G	5.25235G	17.766M	5.231054G	5.248821G	Inf	2
24.425M	5.227825G	5.25225G	17.791M	5.231029G	5.248821G	Inf	3
24.375M	5.228G	5.252375G	17.741M	5.231054G	5.248796G	Inf	4
24.5M	5.227975G	5.252475G	17.766M	5.231029G	5.248796G	Inf	5
24.375M	5.22785G	5.252225G	17.766M	5.231029G	5.248796G	Inf	6
24.225M	5.2281G	5.252325G	17.791M	5.231054G	5.248846G	Inf	7
24.175M	5.228025G	5.2522G	17.816M	5.231004G	5.248821G	Inf	8

802.11ac VHT20_Nss2,(MCS0)_8TX **EBW**

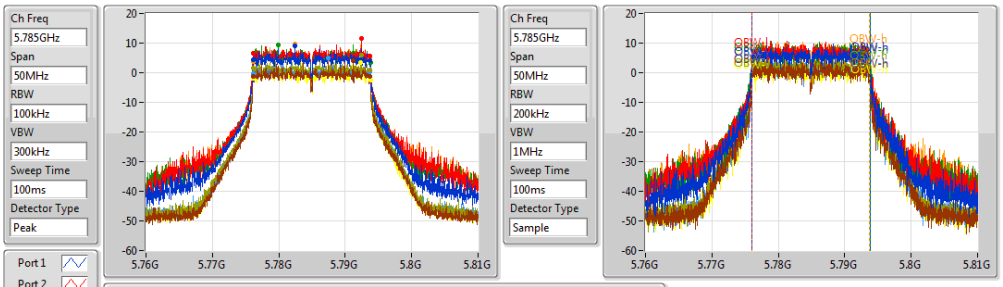
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.736125G	5.7537G	17.791M	5.736004G	5.753796G	500k	1
17.575M	5.736125G	5.7537G	17.741M	5.736029G	5.753771G	500k	2
17.6M	5.736125G	5.753725G	17.841M	5.73598G	5.753821G	500k	3
17.575M	5.736125G	5.7537G	17.766M	5.736029G	5.753796G	500k	4
17.575M	5.736125G	5.7537G	17.741M	5.736029G	5.753771G	500k	5
17.575M	5.736125G	5.7537G	17.866M	5.735955G	5.753821G	500k	6
17.625M	5.7361G	5.753725G	17.716M	5.736079G	5.753796G	500k	7
17.575M	5.736125G	5.7537G	17.791M	5.736004G	5.753796G	500k	8

802.11ac VHT20_Nss2,(MCS0)_8TX **EBW**

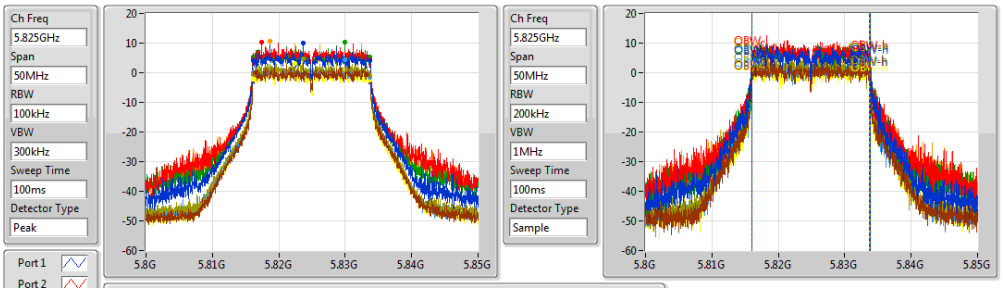
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	5.776125G	5.793725G	17.841M	5.77598G	5.793821G	500k	1
17.55M	5.77615G	5.7937G	17.741M	5.776054G	5.793796G	500k	2
17.675M	5.7761G	5.793775G	17.791M	5.776004G	5.793796G	500k	3
17.6M	5.7761G	5.7937G	17.741M	5.776029G	5.793771G	500k	4
17.575M	5.776125G	5.7937G	17.741M	5.776054G	5.793796G	500k	5
17.575M	5.776125G	5.7937G	17.766M	5.776004G	5.793771G	500k	6
17.575M	5.776125G	5.7937G	17.741M	5.776054G	5.793796G	500k	7
17.7M	5.7761G	5.7938G	17.816M	5.776004G	5.793821G	500k	8

802.11ac VHT20_Nss2,(MCS0)_8TX **EBW**

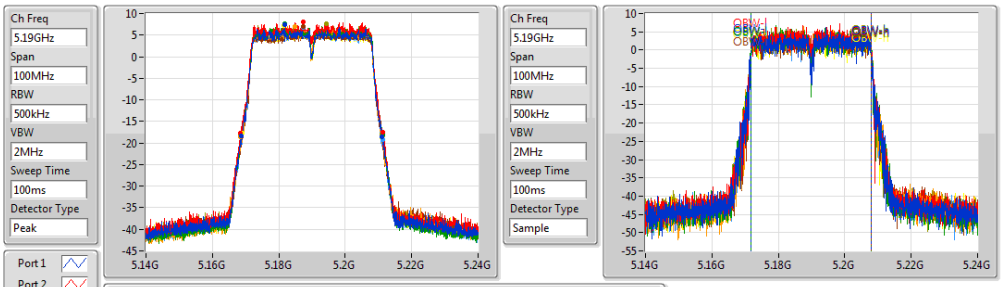
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.816125G	5.8337G	17.791M	5.816004G	5.833796G	500k	1
17.625M	5.8161G	5.833725G	17.791M	5.816004G	5.833796G	500k	2
17.575M	5.816125G	5.8337G	17.791M	5.816004G	5.833796G	500k	3
17.55M	5.816125G	5.833675G	17.741M	5.816054G	5.833796G	500k	4
16.9M	5.8164G	5.8333G	17.741M	5.816029G	5.833771G	500k	5
17.625M	5.8161G	5.833725G	17.741M	5.816029G	5.833771G	500k	6
17.6M	5.816125G	5.833725G	17.791M	5.816029G	5.833821G	500k	7
17.625M	5.8161G	5.833725G	17.816M	5.81598G	5.833796G	500k	8

802.11ac VHT40_Nss2,(MCS0)_8TX **EBW**

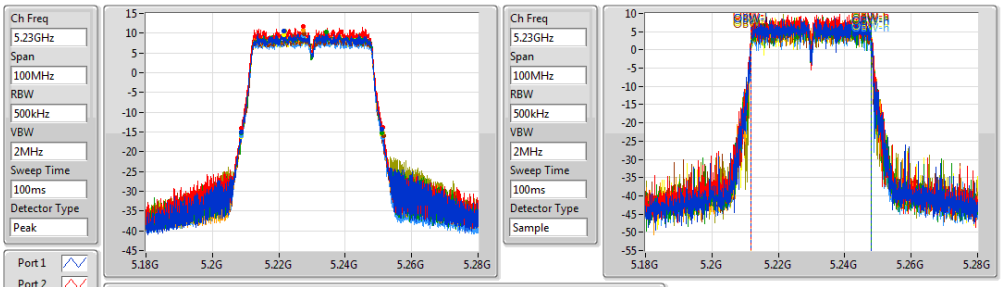
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.4M	5.16875G	5.21115G	36.232M	5.171759G	5.207991G	Inf	1
42.9M	5.1685G	5.2114G	36.182M	5.171809G	5.207991G	Inf	2
42.65M	5.1686G	5.21125G	36.282M	5.171759G	5.208041G	Inf	3
42.85M	5.16855G	5.2114G	36.232M	5.171809G	5.208041G	Inf	4
42.5M	5.16865G	5.21115G	36.232M	5.171809G	5.208041G	Inf	5
42.6M	5.16855G	5.21115G	36.232M	5.171809G	5.208041G	Inf	6
42.8M	5.1686G	5.2114G	36.182M	5.171809G	5.207991G	Inf	7
42.3M	5.16885G	5.21115G	36.232M	5.171809G	5.208041G	Inf	8

802.11ac VHT40_Nss2,(MCS0)_8TX **EBW**

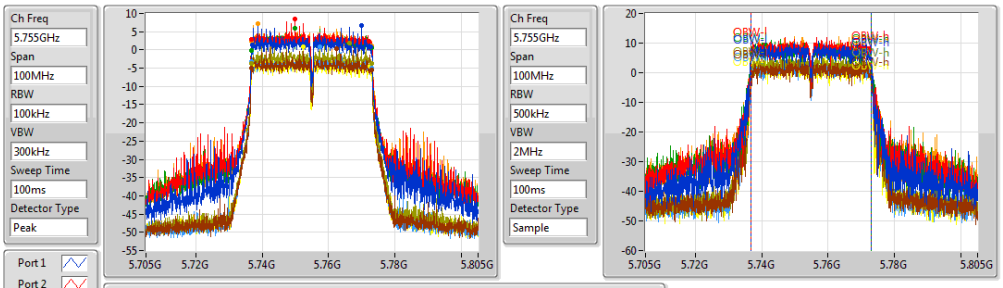
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.35M	5.2087G	5.25105G	36.232M	5.211809G	5.248041G	Inf	1
42.7M	5.20865G	5.25135G	36.232M	5.211809G	5.248041G	Inf	2
42.55M	5.2086G	5.25115G	36.232M	5.211809G	5.248041G	Inf	3
42.75M	5.20865G	5.2514G	36.182M	5.211859G	5.248041G	Inf	4
42.75M	5.20875G	5.2515G	36.282M	5.211759G	5.248041G	Inf	5
42.5M	5.2087G	5.2512G	36.182M	5.211809G	5.247991G	Inf	6
42.7M	5.2087G	5.2514G	36.332M	5.211759G	5.248091G	Inf	7
42.55M	5.2086G	5.25115G	36.232M	5.211809G	5.248041G	Inf	8

802.11ac VHT40_Nss2,(MCS0)_8TX **EBW**

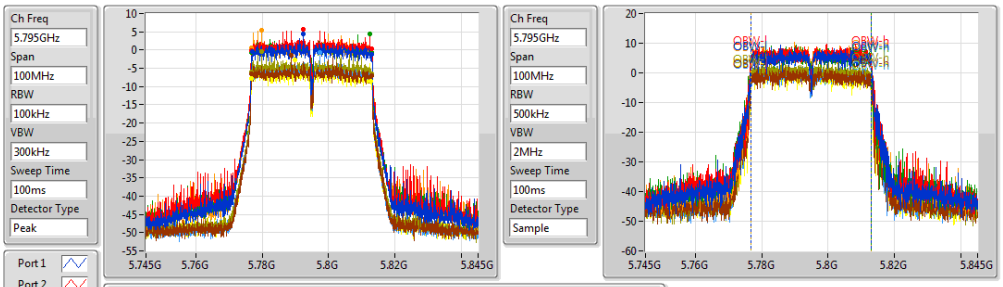
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.65M	5.73705G	5.7727G	36.232M	5.736759G	5.772991G	500k	1
35.4M	5.73675G	5.77215G	36.182M	5.736809G	5.772991G	500k	2
36.4M	5.7367G	5.7731G	36.282M	5.736709G	5.772991G	500k	3
36.35M	5.73675G	5.7731G	36.182M	5.736809G	5.772991G	500k	4
36.35M	5.73675G	5.7731G	36.382M	5.736709G	5.773091G	500k	5
36.35M	5.73675G	5.7731G	36.132M	5.736809G	5.772941G	500k	6
36.35M	5.73675G	5.7731G	36.232M	5.736759G	5.772991G	500k	7
35.45M	5.737G	5.77245G	36.282M	5.736709G	5.772991G	500k	8

802.11ac VHT40_Nss2,(MCS0)_8TX **EBW**

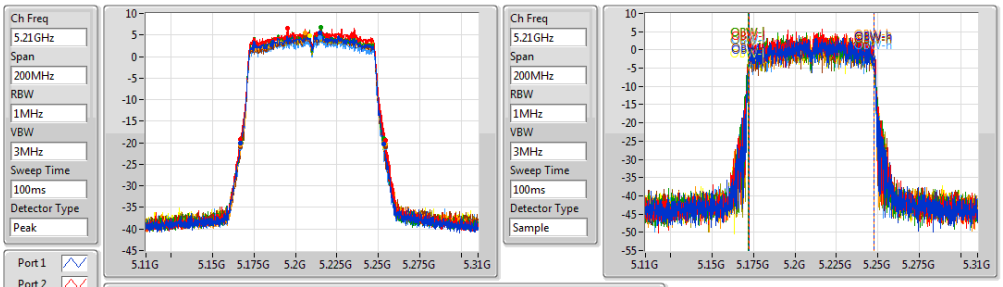
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.05M	5.777G	5.81305G	36.182M	5.776809G	5.812991G	500k	1
36.3M	5.77675G	5.81305G	36.332M	5.776709G	5.813041G	500k	2
36.3M	5.77675G	5.81305G	36.182M	5.776809G	5.812991G	500k	3
36.35M	5.77675G	5.8131G	36.332M	5.776709G	5.813041G	500k	4
36.3M	5.77675G	5.81305G	36.232M	5.776759G	5.812991G	500k	5
36.3M	5.77675G	5.81305G	36.232M	5.776759G	5.812991G	500k	6
36.3M	5.77675G	5.81305G	36.232M	5.776759G	5.812991G	500k	7
36M	5.77675G	5.81275G	36.082M	5.776809G	5.812891G	500k	8

802.11ac VHT80_Nss2,(MCS0)_8TX **EBW**

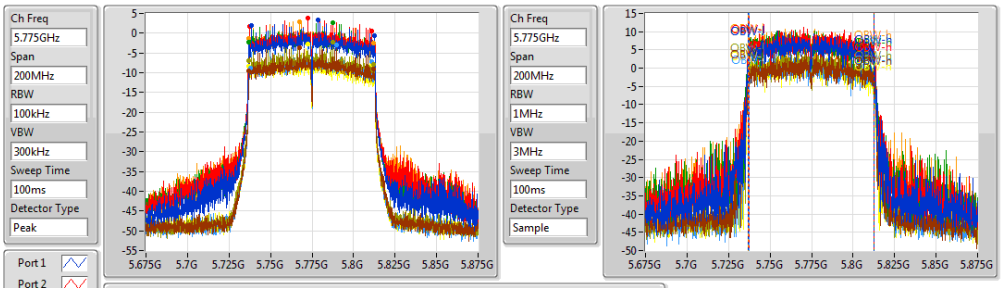
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
86.3M	5.1671G	5.2534G	75.562M	5.172219G	5.247781G	Inf	1
87.3M	5.1669G	5.2542G	75.562M	5.172219G	5.247781G	Inf	2
85.7M	5.1673G	5.253G	75.662M	5.172019G	5.247681G	Inf	3
87.4M	5.1668G	5.2542G	75.662M	5.172119G	5.247781G	Inf	4
87.3M	5.167G	5.2543G	75.662M	5.172119G	5.247781G	Inf	5
86.2M	5.1672G	5.2534G	75.762M	5.172019G	5.247781G	Inf	6
87.4M	5.1667G	5.2541G	75.562M	5.172119G	5.247681G	Inf	7
86.6M	5.1669G	5.2535G	75.662M	5.172019G	5.247681G	Inf	8

802.11ac VHT80_Nss2,(MCS0)_8TX **EBW**

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
73.8M	5.7386G	5.8124G	75.462M	5.737019G	5.812481G	500k	1
73.8M	5.7374G	5.8112G	75.462M	5.737119G	5.812581G	500k	2
75.7M	5.7367G	5.8124G	75.562M	5.736919G	5.812481G	500k	3
75.4M	5.7368G	5.8122G	75.662M	5.736919G	5.812581G	500k	4
74.8M	5.737G	5.8118G	75.762M	5.736919G	5.812681G	500k	5
75.1M	5.737G	5.8121G	75.562M	5.736919G	5.812481G	500k	6
73.4M	5.7378G	5.8112G	75.462M	5.737119G	5.812581G	500k	7
74.2M	5.737G	5.8112G	75.462M	5.736919G	5.812381G	500k	8

802.11ac VHT20_Nss4,(MCS0): 5240MHz only

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20_Nss4,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	26.775M	18.041M	18M0D1D	22.525M	17.266M

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;

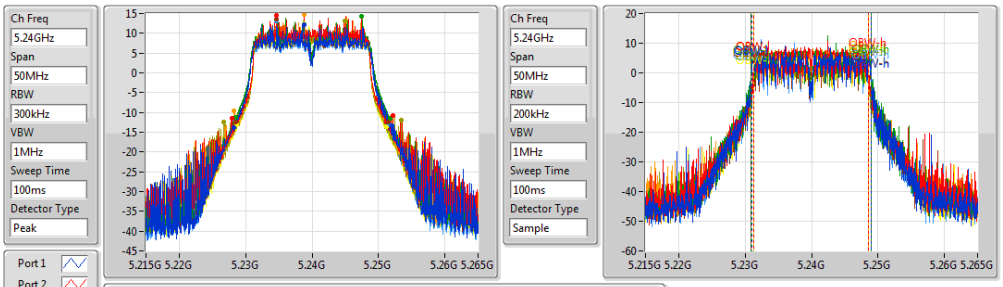
Result

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)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20_Nss4,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5240MHz	Pass	Inf	23.9M	17.991M	24.25M	17.266M	23.275M	18.016M	23.675M	17.291M	23M	18.041M	26.775M	17.291M	23.425M	18.041M	22.525M	17.316M

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_Nss4,(MCS0)_8TX **EBW**

5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.9M	5.2282G	5.2521G	17.991M	5.230955G	5.248946G	Inf	1
24.25M	5.22795G	5.2522G	17.266M	5.231279G	5.248546G	Inf	2
23.275M	5.228525G	5.2518G	18.016M	5.23093G	5.248946G	Inf	3
23.675M	5.228175G	5.25185G	17.291M	5.231279G	5.248571G	Inf	4
23M	5.228525G	5.251525G	18.041M	5.230905G	5.248946G	Inf	5
26.775M	5.22665G	5.253425G	17.291M	5.231254G	5.248546G	Inf	6
23.425M	5.2282G	5.251625G	18.041M	5.230905G	5.248946G	Inf	7
22.525M	5.2287G	5.251225G	17.316M	5.231254G	5.248571G	Inf	8

802.11a_(6Mbps), 802.11ac VHT20_Nss2,(MCS0), 802.11ac VHT40_Nss2,(MCS0) and 802.11ac VHT80_Nss2,(MCS0)
Summary

Mode	Total Power (dBm)	Total Power (W)
802.11a_(6Mbps)_8TX	-	-
5.15-5.25GHz	25.88	0.38726
5.725-5.85GHz	29.65	0.92257
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	26.09	0.40644
5.725-5.85GHz	29.70	0.93325
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	28.96	0.78705
5.725-5.85GHz	29.31	0.85310
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-
5.15-5.25GHz	23.35	0.21627
5.725-5.85GHz	27.76	0.59704

Result

Mode	Result	DG	Total Power	Power Limit	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6	25.76	30.00	16.75	17.69	16.80	16.79	16.31	16.59	16.09	16.64
5200MHz	Pass	6	25.79	30.00	16.84	17.87	16.65	16.82	16.42	16.92	16.06	16.24
5240MHz	Pass	6	25.88	30.00	16.73	17.88	17.08	17.18	16.31	16.88	16.07	16.40
5745MHz	Pass	6	29.61	30.00	22.23	23.35	22.19	22.66	16.19	17.16	16.61	16.08
5785MHz	Pass	6	29.65	30.00	22.07	23.05	22.01	22.55	17.02	18.36	17.29	16.81
5825MHz	Pass	6	29.57	30.00	21.91	22.97	22.19	22.22	16.96	18.28	17.33	16.84
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	6	26.07	30.00	17.28	17.91	16.76	17.37	16.33	17.01	16.50	16.92
5200MHz	Pass	6	26.03	30.00	16.91	17.98	17.43	17.02	16.35	17.21	16.15	16.63
5240MHz	Pass	6	26.09	30.00	17.05	18.24	17.31	17.10	16.71	17.08	16.03	16.66
5745MHz	Pass	6	29.69	30.00	22.18	23.13	22.86	22.82	16.02	16.93	16.64	16.10
5785MHz	Pass	6	29.70	30.00	22.03	23.01	22.76	22.45	16.47	18.04	17.51	16.49
5825MHz	Pass	6	29.61	30.00	21.95	23.11	22.35	22.48	16.52	18.09	17.19	16.26
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3	25.91	30.00	16.76	17.81	17.25	17.21	16.47	16.71	16.18	16.42
5230MHz	Pass	3	28.96	30.00	20.01	20.89	20.15	20.10	19.46	20.02	19.09	19.47
5755MHz	Pass	3	29.31	30.00	21.57	22.79	22.31	22.67	15.80	17.02	16.16	15.51
5795MHz	Pass	3	27.33	30.00	19.61	20.92	20.64	20.48	13.39	15.12	13.55	13.14
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3	23.35	30.00	14.32	15.51	14.34	14.61	13.93	14.26	13.35	13.95
5775MHz	Pass	3	27.76	30.00	20.05	21.13	20.78	21.15	14.36	15.46	14.43	14.18

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

802.11ac VHT20_Nss4,(MCS0): 5240MHz only

Summary

Mode	Total Power (dBm)	Total Power (W)
802.11ac VHT20_Nss4,(MCS0)_8TX	-	-
5.15-5.25GHz	29.90	0.97724

Result

Mode	Result	DG	Total Power	Power Limit	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
802.11ac VHT20_Nss4,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5240MHz	Pass	4.51	29.90	30.00	21.23	21.59	21.16	21.07	20.55	20.41	20.72	20.06

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

802.11a_(6Mbps), 802.11ac VHT20_Nss2,(MCS0), 802.11ac VHT40_Nss2,(MCS0) and 802.11ac VHT80_Nss2,(MCS0)
Summary

Mode	PD (dBm/RBW)
802.11a_(6Mbps)_8TX	-
5.15-5.25GHz	13.86
5.725-5.85GHz	14.72
802.11ac VHT20_Nss2,(MCS0)_8TX	-
5.15-5.25GHz	14.10
5.725-5.85GHz	14.64
802.11ac VHT40_Nss2,(MCS0)_8TX	-
5.15-5.25GHz	13.92
5.725-5.85GHz	11.16
802.11ac VHT80_Nss2,(MCS0)_8TX	-
5.15-5.25GHz	5.73
5.725-5.85GHz	7.09

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

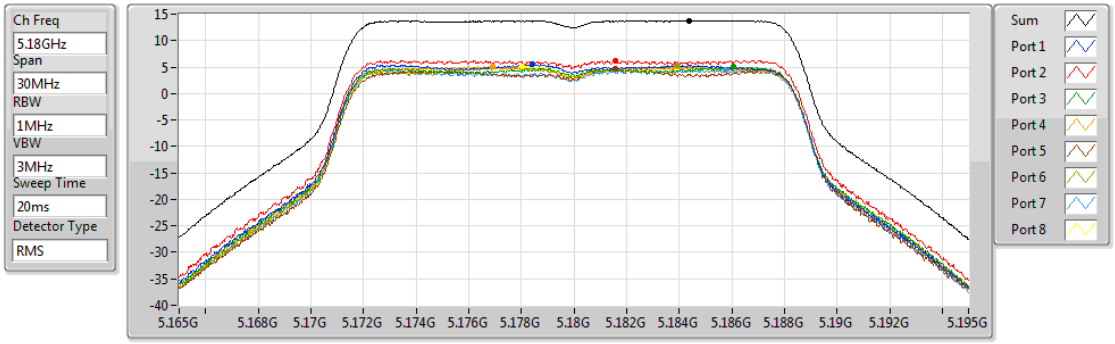
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
11a_Nss2_5180	Pass	8.80	5.46	6.19	5.09	5.10	4.66	5.30	4.50	5.08	13.79	14.20
11a_Nss2_5200	Pass	8.80	4.92	6.17	4.88	4.92	4.85	5.60	4.31	4.60	13.72	14.20
11a_Nss2_5240	Pass	8.80	5.26	6.19	5.41	5.40	4.87	5.50	4.44	4.76	13.86	14.20
11a_Nss2_5745	Pass	8.80	7.72	8.55	7.27	8.20	2.08	3.01	1.90	1.14	14.69	27.20
11a_Nss2_5785	Pass	8.80	7.47	8.52	8.01	8.17	2.84	4.19	3.00	2.65	14.72	27.20
11a_Nss2_5825	Pass	8.80	7.65	8.27	7.77	8.13	2.62	4.33	2.98	2.37	14.58	27.20
VHT20_Nss2_5180	Pass	8.80	5.19	6.23	5.27	5.29	4.33	5.17	4.36	4.91	14.10	14.20
VHT20_Nss2_5200	Pass	8.80	4.61	6.22	5.46	5.04	4.34	5.21	4.07	4.59	13.91	14.20
VHT20_Nss2_5240	Pass	8.80	4.86	6.40	5.24	5.13	4.69	5.11	3.99	4.78	13.99	14.20
VHT20_Nss2_5745	Pass	8.80	7.01	7.99	8.19	8.44	0.65	2.55	1.82	1.61	14.64	27.20
VHT20_Nss2_5785	Pass	8.80	6.95	7.95	7.96	8.01	1.59	3.42	2.63	1.95	14.54	27.20
VHT20_Nss2_5825	Pass	8.80	6.73	7.99	7.55	7.72	1.61	3.22	1.91	1.53	14.39	27.20
VHT40_Nss2_5190	Pass	8.80	1.48	2.89	2.11	2.05	1.42	2.14	0.84	1.38	10.76	14.20
VHT40_Nss2_5230	Pass	8.80	5.06	6.26	5.12	5.24	4.51	5.10	3.90	4.45	13.92	14.20
VHT40_Nss2_5755	Pass	8.80	3.89	4.70	4.43	4.76	-2.14	-0.16	-1.72	-1.92	11.16	27.20
VHT40_Nss2_5795	Pass	8.80	1.91	2.89	2.31	3.03	-4.37	-2.65	-3.62	-3.71	9.23	27.20
VHT80_Nss2_5210	Pass	8.80	-3.26	-2.00	-2.62	-2.99	-3.62	-3.29	-4.25	-3.62	5.73	14.20
VHT80_Nss2_5775	Pass	8.80	-0.22	0.61	0.45	0.82	-6.12	-4.77	-6.10	-4.84	7.09	27.20

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;

802.11a_(6Mbps)_8TX PSD

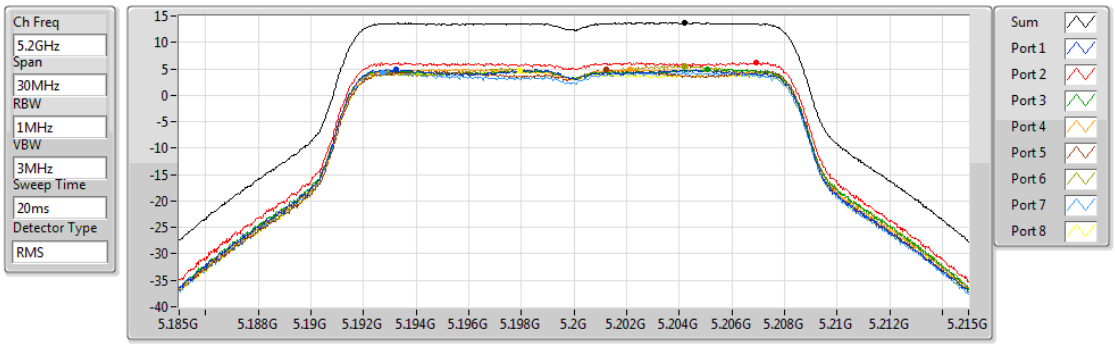
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.79	13.79	5.46	6.19	5.09	5.10	4.66	5.30	4.50	5.08

802.11a_(6Mbps)_8TX PSD

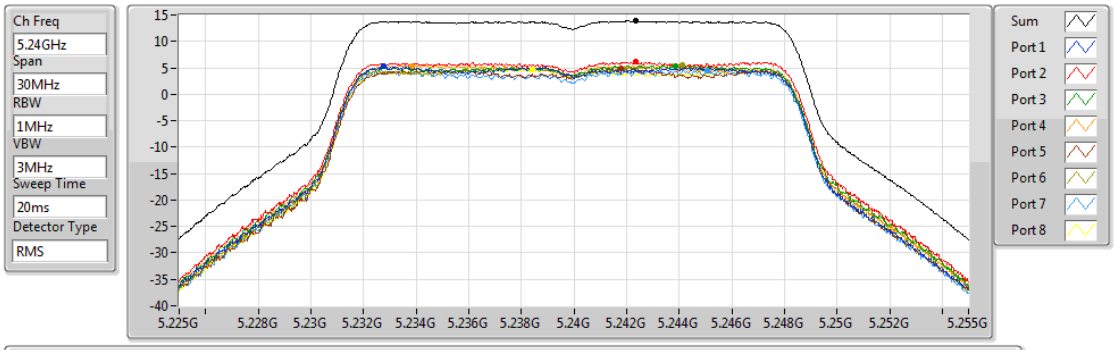
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.72	13.72	4.92	6.17	4.88	4.92	4.85	5.60	4.31	4.60

802.11a_(6Mbps)_8TX PSD

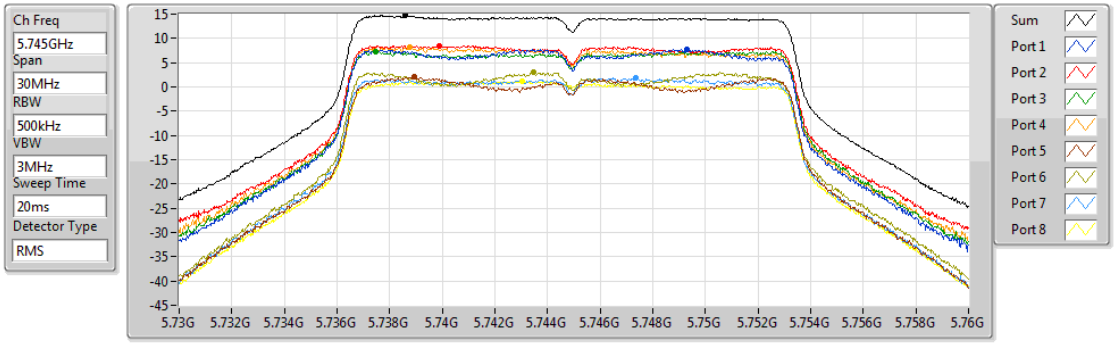
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.86	13.86	5.26	6.19	5.41	5.40	4.87	5.50	4.44	4.76

802.11a_(6Mbps)_8TX PSD

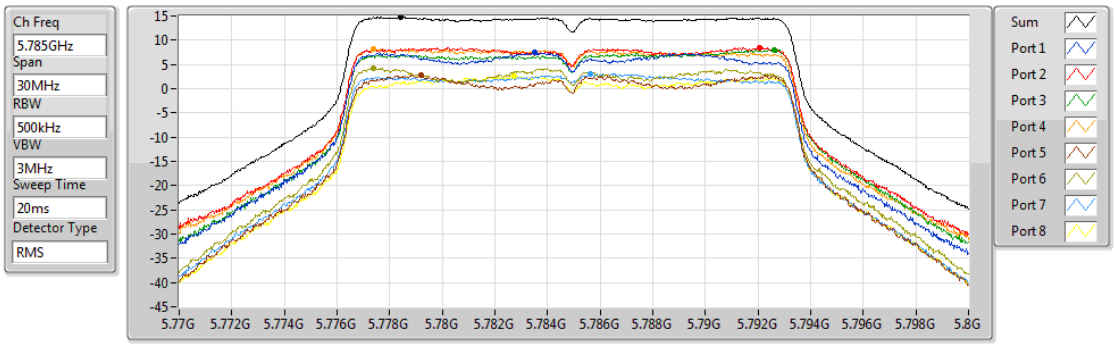
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.69	14.69	7.72	8.55	7.27	8.20	2.08	3.01	1.90	1.14

802.11a_(6Mbps)_8TX PSD

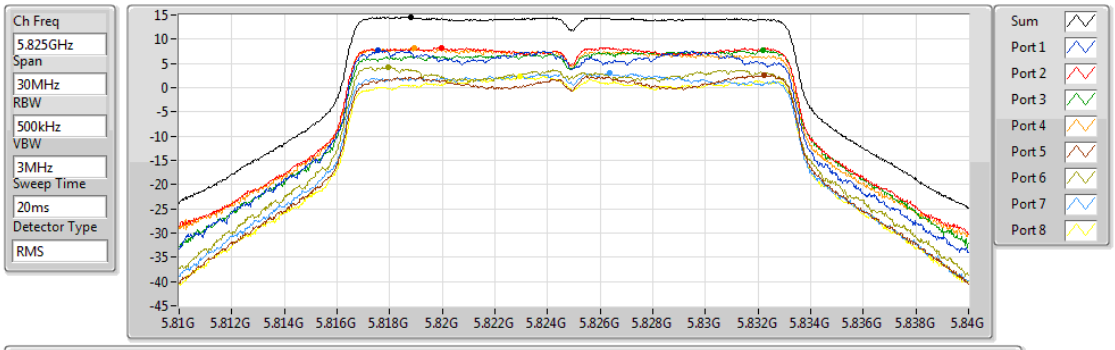
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.72	14.72	7.47	8.52	8.01	8.17	2.84	4.19	3.00	2.65

802.11a_(6Mbps)_8TX PSD

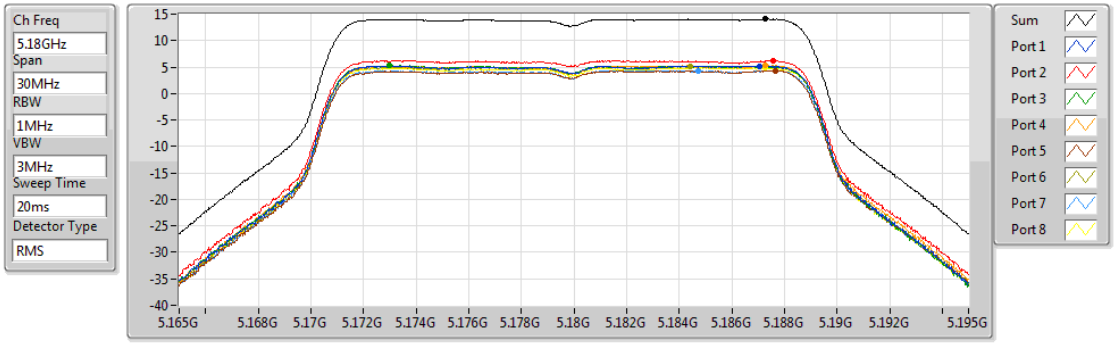
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.58	14.58	7.65	8.27	7.77	8.13	2.62	4.33	2.98	2.37

802.11ac VHT20_Nss2,(MCS0)_8TX PSD

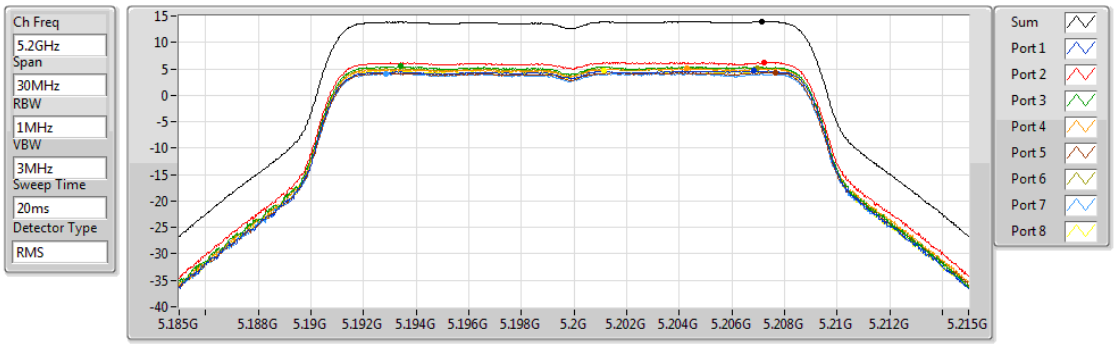
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.10	14.10	5.19	6.23	5.27	5.29	4.33	5.17	4.36	4.91

802.11ac VHT20_Nss2,(MCS0)_8TX PSD

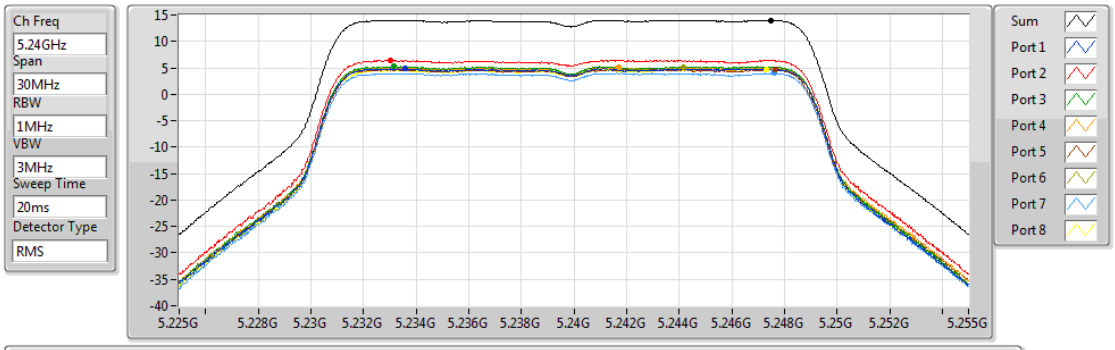
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.91	13.91	4.61	6.22	5.46	5.04	4.34	5.21	4.07	4.59

802.11ac VHT20_Nss2,(MCS0)_8TX PSD

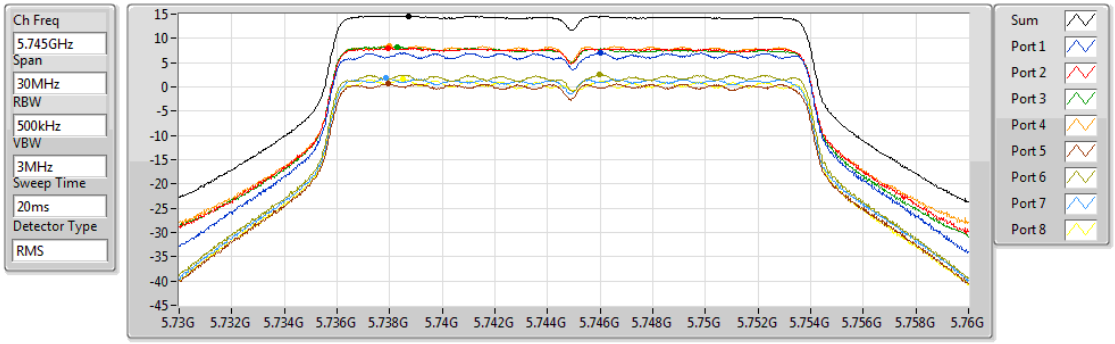
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.99	13.99	4.86	6.40	5.24	5.13	4.69	5.11	3.99	4.78

802.11ac VHT20_Nss2,(MCS0)_8TX PSD

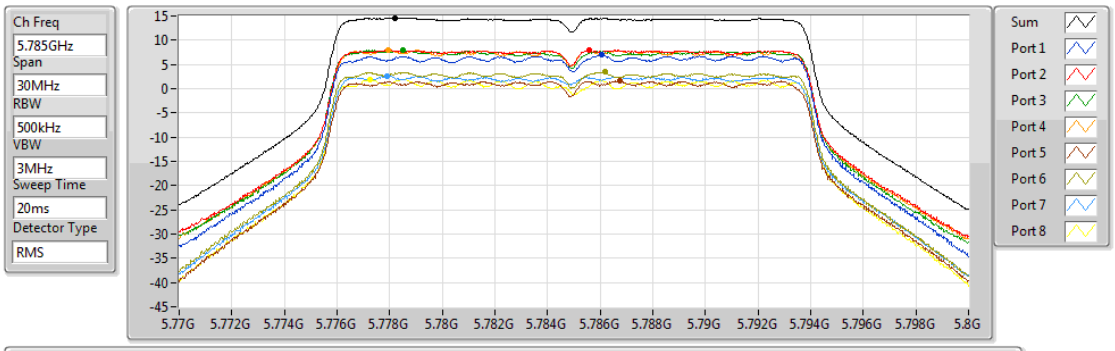
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.64	14.64	7.01	7.99	8.19	8.44	0.65	2.55	1.82	1.61

802.11ac VHT20_Nss2,(MCS0)_8TX PSD

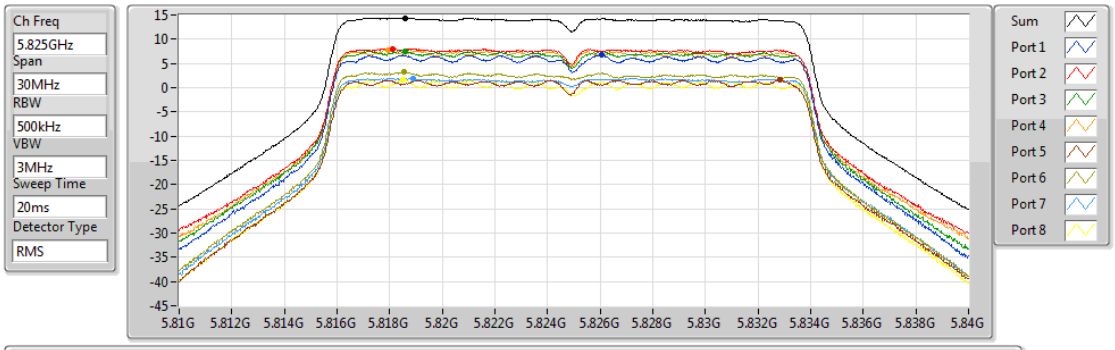
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.54	14.54	6.95	7.95	7.96	8.01	1.59	3.42	2.63	1.95

802.11ac VHT20_Nss2,(MCS0)_8TX PSD

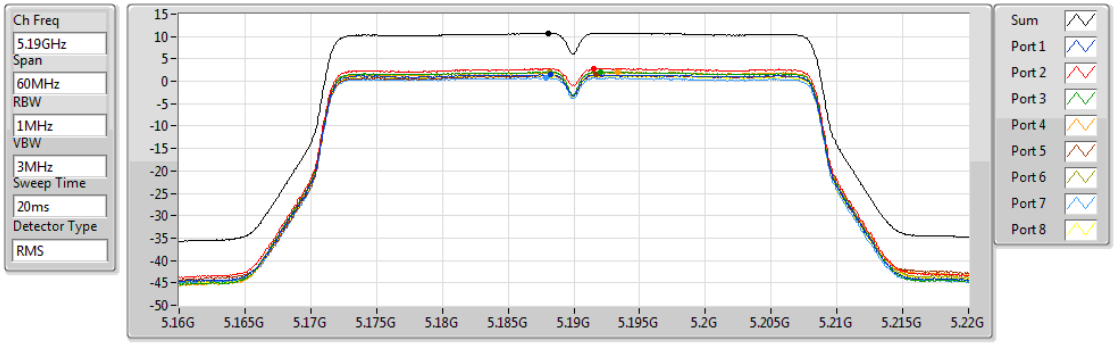
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.39	14.39	6.73	7.99	7.55	7.72	1.61	3.22	1.91	1.53

802.11ac VHT40_Nss2,(MCS0)_8TX PSD

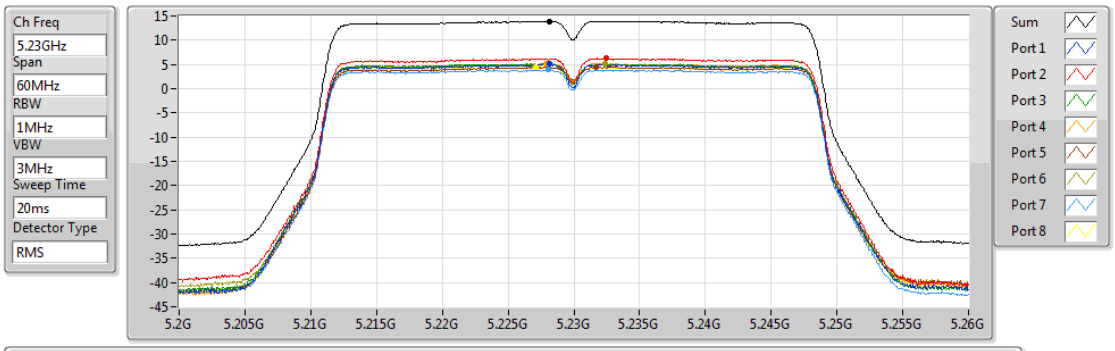
5190MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.76	10.76	1.48	2.89	2.11	2.05	1.42	2.14	0.84	1.38

802.11ac VHT40_Nss2,(MCS0)_8TX PSD

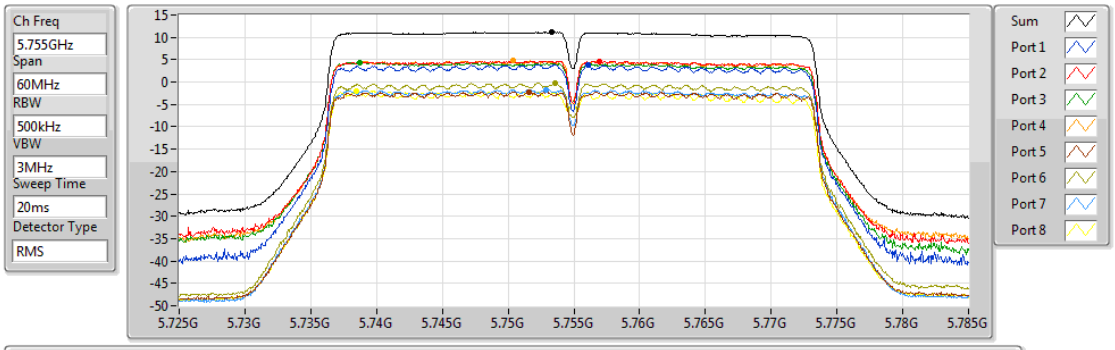
5230MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.92	13.92	5.06	6.26	5.12	5.24	4.51	5.10	3.90	4.45

802.11ac VHT40_Nss2,(MCS0)_8TX PSD

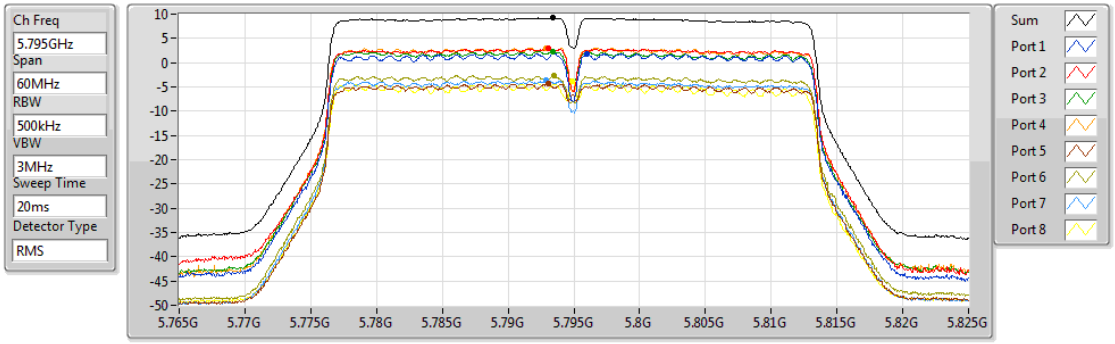
5755MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.16	11.16	3.89	4.70	4.43	4.76	-2.14	-0.16	-1.72	-1.92

802.11ac VHT40_Nss2,(MCS0)_8TX PSD

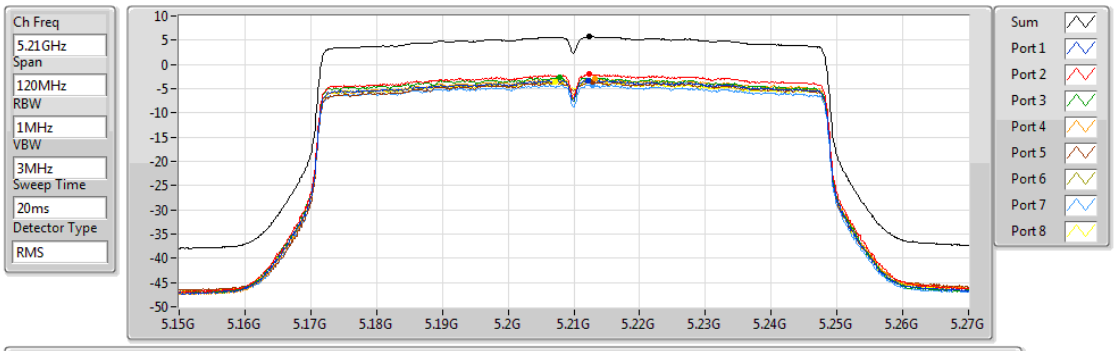
5795MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.23	9.23	1.91	2.89	2.31	3.03	-4.37	-2.65	-3.62	-3.71

802.11ac VHT80_Nss2,(MCS0)_8TX PSD

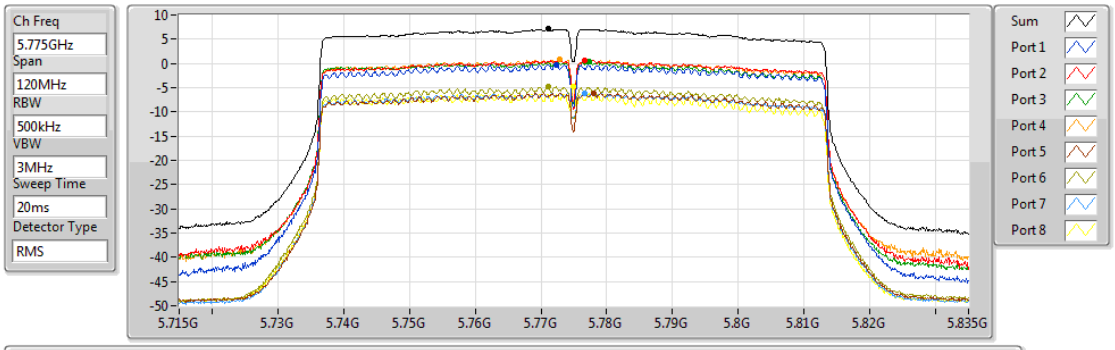
5210MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	-3.26	-2.00	-2.62	-2.99	-3.62	-3.29	-4.25	-3.62

802.11ac VHT80_Nss2,(MCS0)_8TX PSD

5775MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.09	7.09	-0.22	0.61	0.45	0.82	-6.12	-4.77	-6.10	-4.84

802.11ac VHT20_Nss4,(MCS0): 5240MHz only

Summary

Mode	PD (dBm/RBW)
802.11ac VHT20_Nss4,(MCS0)_8TX	-
5.15-5.25GHz	16.76

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

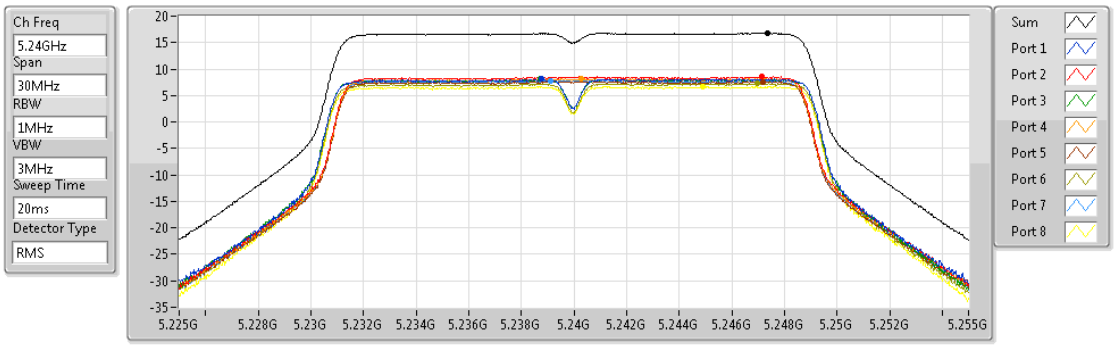
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT20_Nss4,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5240MHz	Pass	5.79	8.18	8.58	8.08	8.17	7.63	7.25	7.85	6.73	16.76	17.00

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;

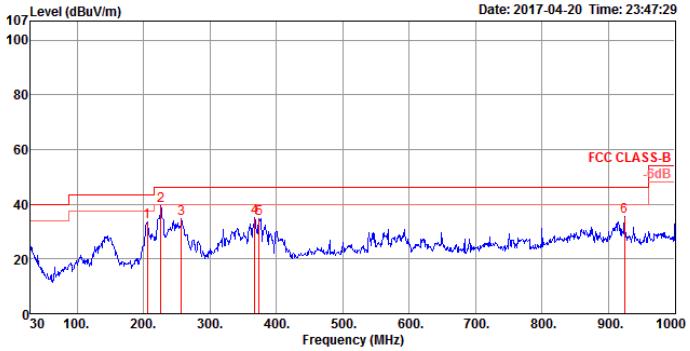
802.11ac VHT20_Nss4,(MCS0)_8TX **PSD**

5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port 7	Port 8
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.76	16.76	8.18	8.58	8.08	8.17	7.63	7.25	7.85	6.73

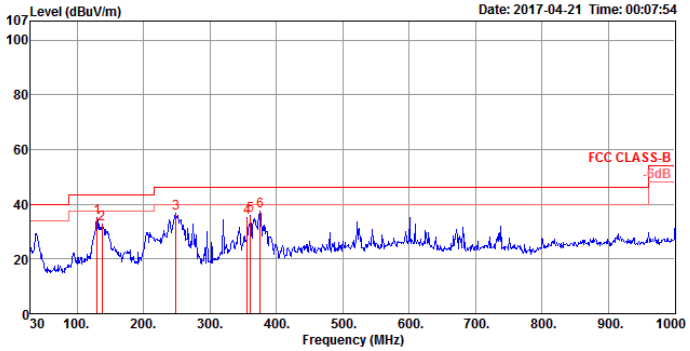
RSE below 1GHz Result			
Operating Mode	4	**Polarization**	Horizontal
Operating Function	CTX		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	205.57	33.41	43.50	-10.09	47.95	1.14	16.31	31.99	100	16	Peak	HORIZONTAL
2	225.94	39.43	46.00	-6.57	53.47	1.20	16.73	31.97	100	55	Peak	HORIZONTAL
3	256.98	34.58	46.00	-11.42	45.93	1.27	19.35	31.97	100	129	Peak	HORIZONTAL
4	367.56	35.15	46.00	-10.85	44.23	1.49	21.54	32.11	100	208	Peak	HORIZONTAL
5	374.35	34.94	46.00	-11.06	43.86	1.50	21.70	32.12	100	177	Peak	HORIZONTAL
6	924.34	35.51	46.00	-10.49	38.06	2.42	27.49	32.46	100	114	Peak	HORIZONTAL

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

RSE below 1GHz Result			
Operating Mode	4	**Polarization**	Vertical
Operating Function	CTX		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	129.91	35.09	43.50	-8.41	47.67	0.90	18.40	31.88	100	147	Peak	VERTICAL
2	137.67	32.87	43.50	-10.63	46.00	0.92	17.83	31.88	100	162	Peak	VERTICAL
3	249.22	36.73	46.00	-9.27	48.81	1.25	18.64	31.97	100	221	Peak	VERTICAL
4	355.92	35.33	46.00	-10.67	44.71	1.47	21.23	32.08	100	200	Peak	VERTICAL
5	360.77	35.78	46.00	-10.22	45.04	1.48	21.35	32.09	100	178	Peak	VERTICAL
6	375.32	37.33	46.00	-8.67	46.22	1.50	21.73	32.12	100	165	Peak	VERTICAL

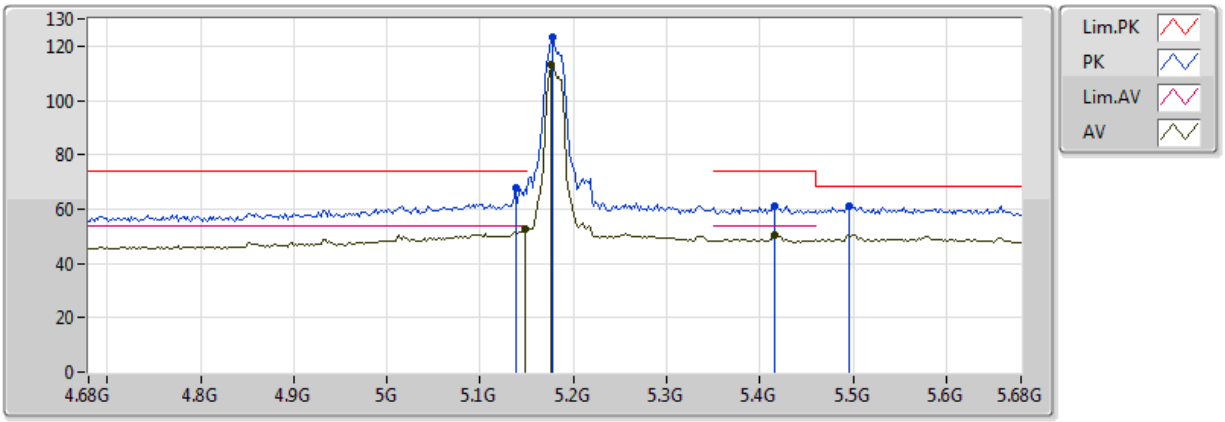
Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-
5.15-5.25GHz	Pass	AV	5.434G	52.99	54.00	-1.01	5.30	3	V	165	1.83	-

802.11a_(6Mbps)_8TX

5180MHz_TX

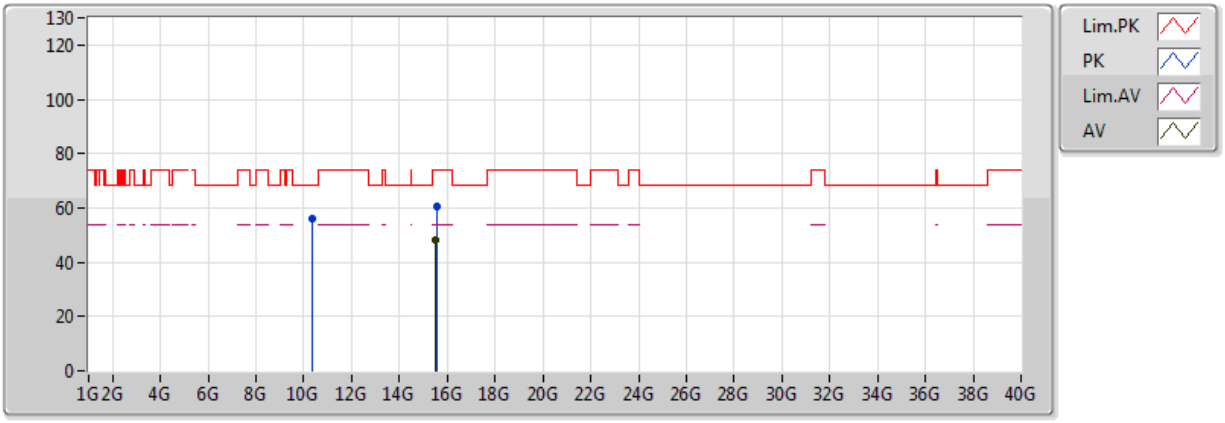


20170410
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01-13
Status 1 Commend

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	52.74	54.00	-1.26	4.77	3	V	143	1.50	-
AV	5.176G	113.41	Inf	-Inf	4.87	3	V	143	1.50	-
AV	5.416G	50.27	54.00	-3.73	5.21	3	V	143	1.50	-
PK	5.138G	67.89	74.00	-6.11	4.73	3	V	143	1.50	-
PK	5.178G	123.28	Inf	-Inf	4.87	3	V	143	1.50	-
PK	5.496G	61.07	68.20	-7.13	5.58	3	V	143	1.50	-
PK	5.416G	61.32	74.00	-12.68	5.21	3	V	143	1.50	-

802.11a_(6Mbps)_8TX

5180MHz_TX

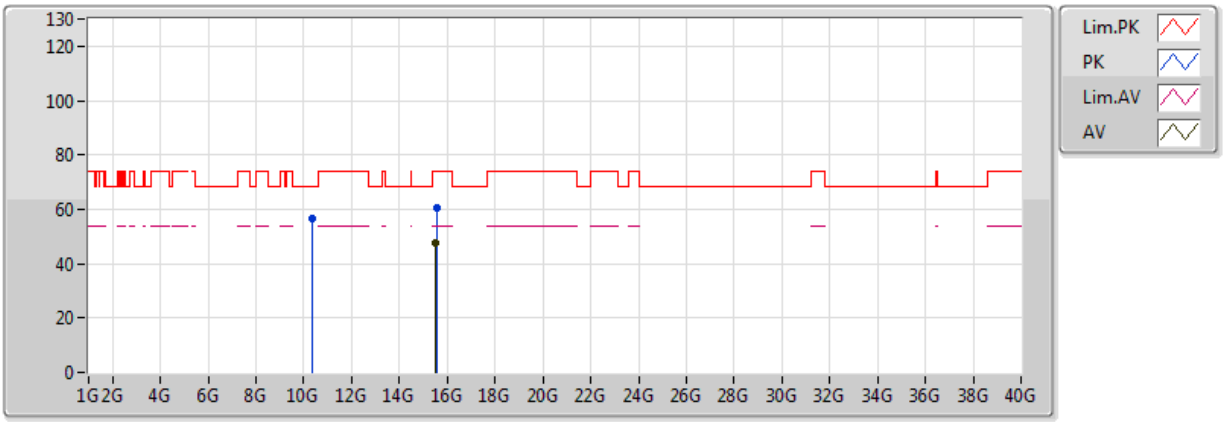


20170410
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.52596G	48.10	54.00	-5.90	15.74	3	V	264	1.45	-
PK	10.36228G	56.11	68.20	-12.09	13.71	3	V	234	1.58	-
PK	15.55008G	60.29	74.00	-13.71	15.73	3	V	264	1.45	-

802.11a_(6Mbps)_8TX

5180MHz_TX

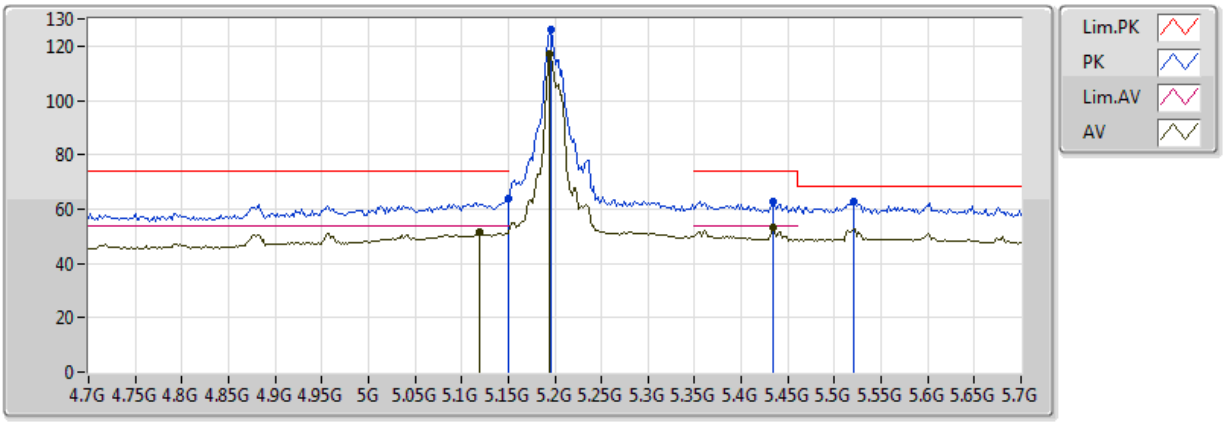


20170410
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.52542G	47.72	54.00	-6.28	15.74	3	H	251	1.68	-
PK	10.37272G	56.60	68.20	-11.60	13.72	3	H	22	1.12	-
PK	15.53862G	60.33	74.00	-13.67	15.73	3	H	251	1.68	-

802.11a_(6Mbps)_8TX

5200MHz_TX

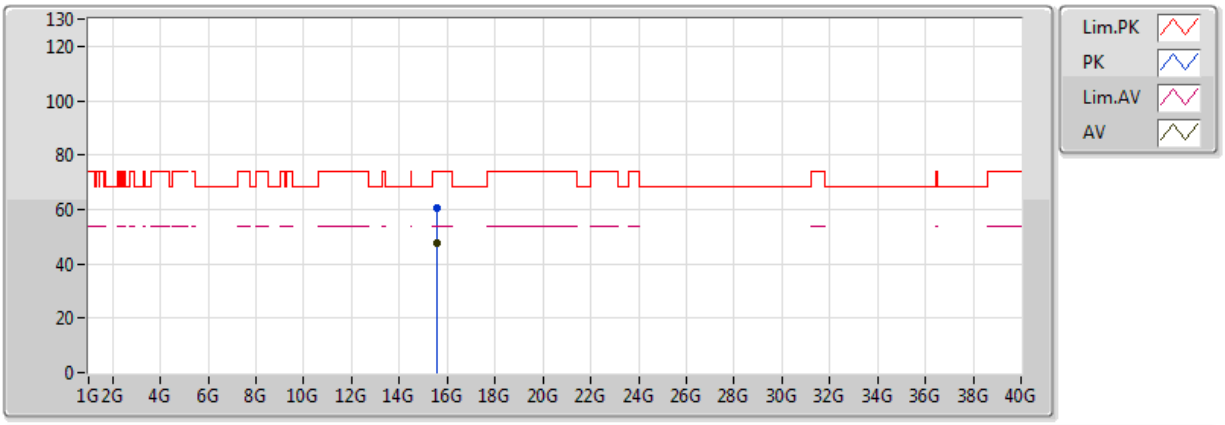


20170410
EUT Z 8TX Non-TXBF
Setting 23/23
04-M-01-13
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.12G	51.57	54.00	-2.43	4.67	3	V	165	1.83	-
AV	5.194G	117.19	Inf	-Inf	4.93	3	V	165	1.83	-
AV	5.434G	52.99	54.00	-1.01	5.30	3	V	165	1.83	-
PK	5.149995G	64.05	74.00	-9.95	4.77	3	V	165	1.83	-
PK	5.196G	125.88	Inf	-Inf	4.94	3	V	165	1.83	-
PK	5.52G	62.50	68.20	-5.70	5.71	3	V	165	1.83	-
PK	5.434G	62.80	74.00	-11.20	5.30	3	V	165	1.83	-

802.11a_(6Mbps)_8TX

5200MHz_TX

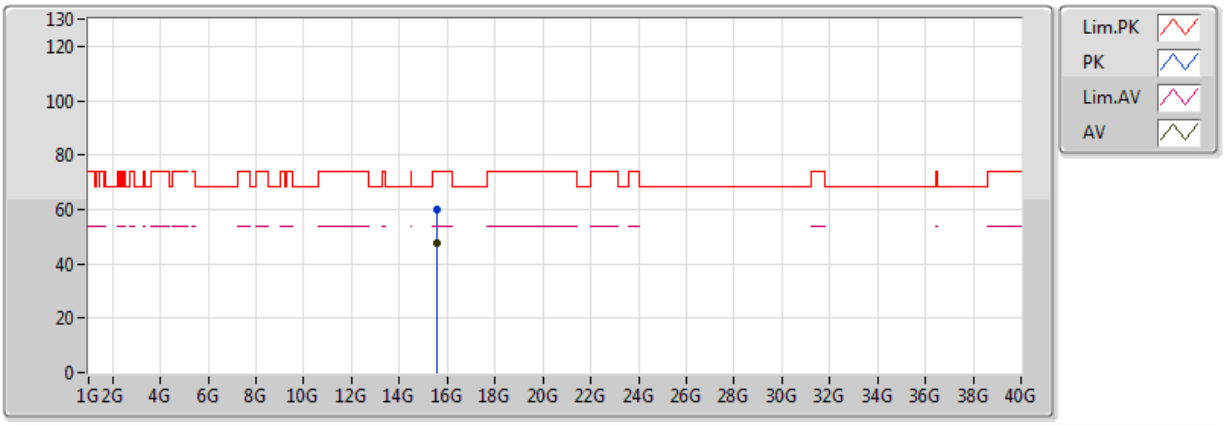


20170411
EUT Z 8TX Non-TXBF
Setting 23/23
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5889G	47.90	54.00	-6.10	15.71	3	V	31	2.08	-
PK	15.59946G	60.78	74.00	-13.22	15.70	3	V	31	2.08	-

802.11a_(6Mbps)_8TX

5200MHz_TX

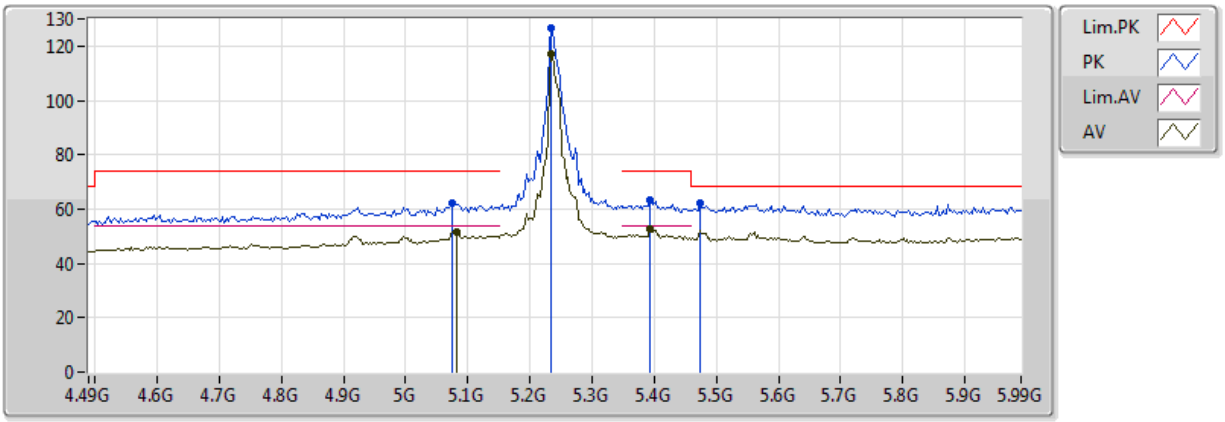


20170411
EUT Z 8TX Non-TXBF
Setting 23/23
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59586G	47.66	54.00	-6.34	15.70	3	H	242	1.54	-
PK	15.58872G	60.06	74.00	-13.94	15.71	3	H	242	1.54	-

802.11a_(6Mbps)_8TX

5240MHz_TX

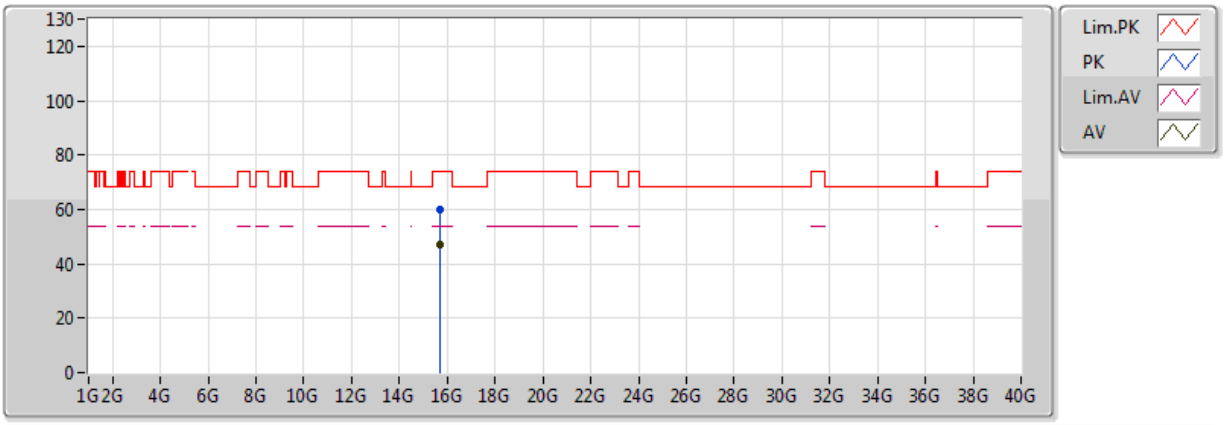


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-13
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.081G	51.59	54.00	-2.41	4.52	3	V	166	1.89	-
AV	5.234G	117.21	Inf	-Inf	4.99	3	V	166	1.89	-
AV	5.393G	52.80	54.00	-1.20	5.13	3	V	166	1.89	-
PK	5.075G	61.96	74.00	-12.04	4.50	3	V	166	1.89	-
PK	5.234G	126.89	Inf	-Inf	4.99	3	V	166	1.89	-
PK	5.474G	62.13	68.20	-6.07	5.48	3	V	166	1.89	-
PK	5.393G	63.19	74.00	-10.81	5.13	3	V	166	1.89	-

802.11a_(6Mbps)_8TX

5240MHz_TX

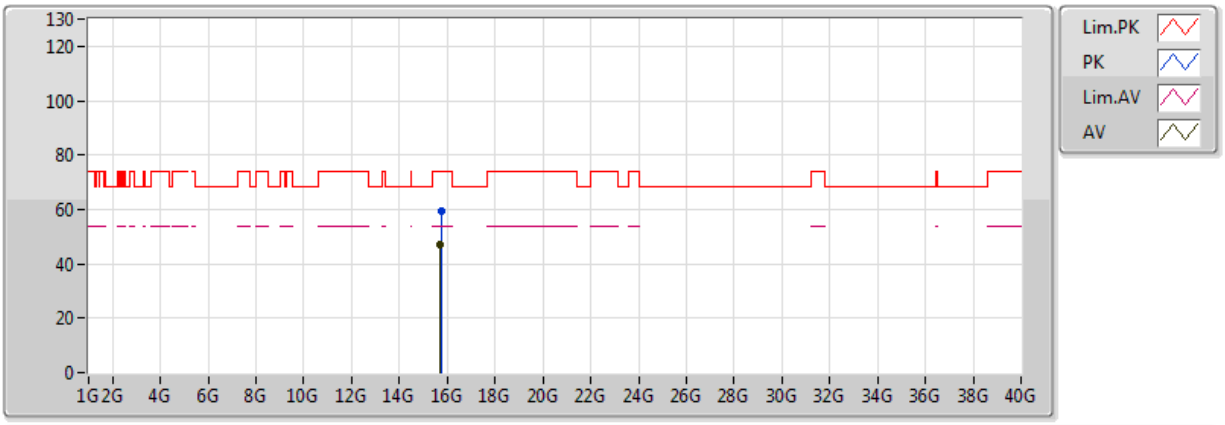


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71904G	47.33	54.00	-6.67	15.63	3	V	194	1.72	-
PK	15.7188G	59.81	74.00	-14.19	15.63	3	V	194	1.72	-

802.11a_(6Mbps)_8TX

5240MHz_TX

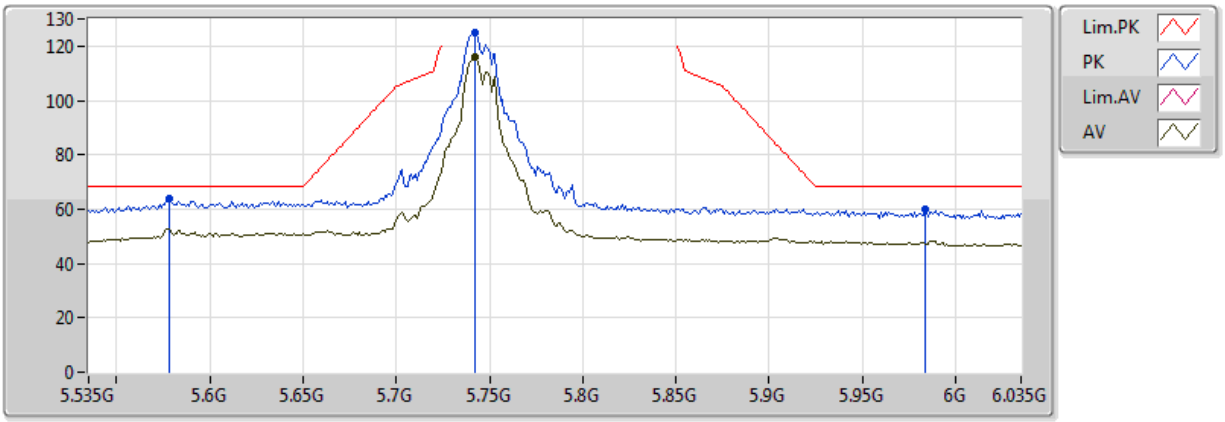


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7149G	47.04	54.00	-6.96	15.64	3	H	159	2.12	-
PK	15.73134G	59.56	74.00	-14.44	15.63	3	H	159	2.12	-

802.11a_(6Mbps)_8TX

5745MHz_TX

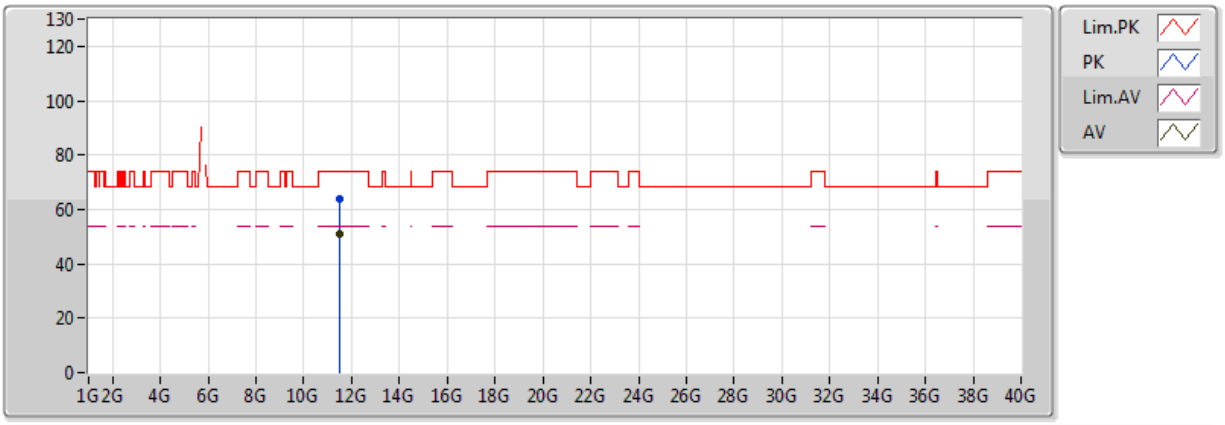


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-10
FSP AMP在裡面
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.742G	115.99	Inf	-Inf	6.32	3	V	82	1.50	-
PK	5.578G	63.97	68.20	-4.23	6.03	3	V	82	1.50	-
PK	5.742G	125.15	Inf	-Inf	6.32	3	V	82	1.50	-
PK	5.984G	60.03	68.20	-8.17	7.46	3	V	82	1.50	-

802.11a_(6Mbps)_8TX

5745MHz_TX

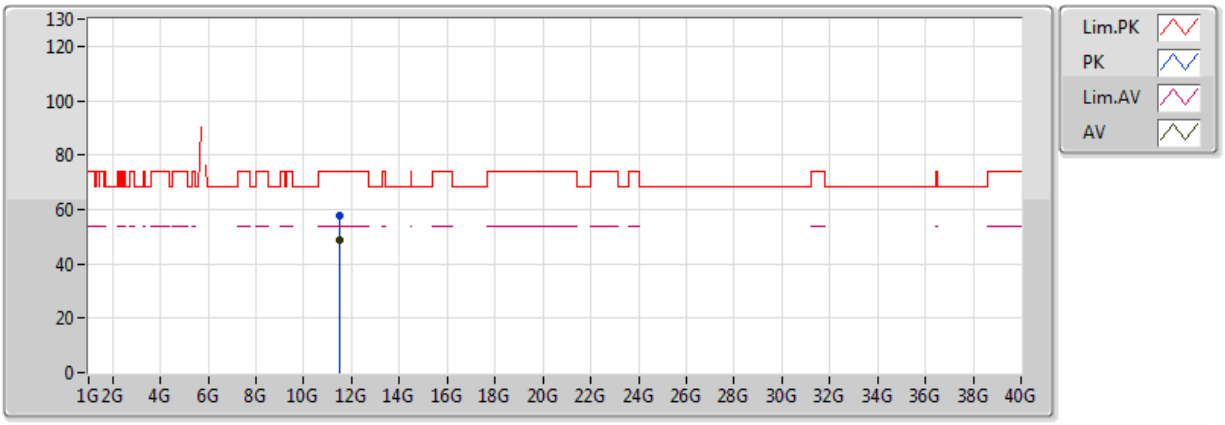


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4916G	50.99	54.00	-3.01	14.75	3	V	337	2.23	-
PK	11.4862G	64.09	74.00	-9.91	14.75	3	V	337	2.23	-

802.11a_(6Mbps)_8TX

5745MHz_TX

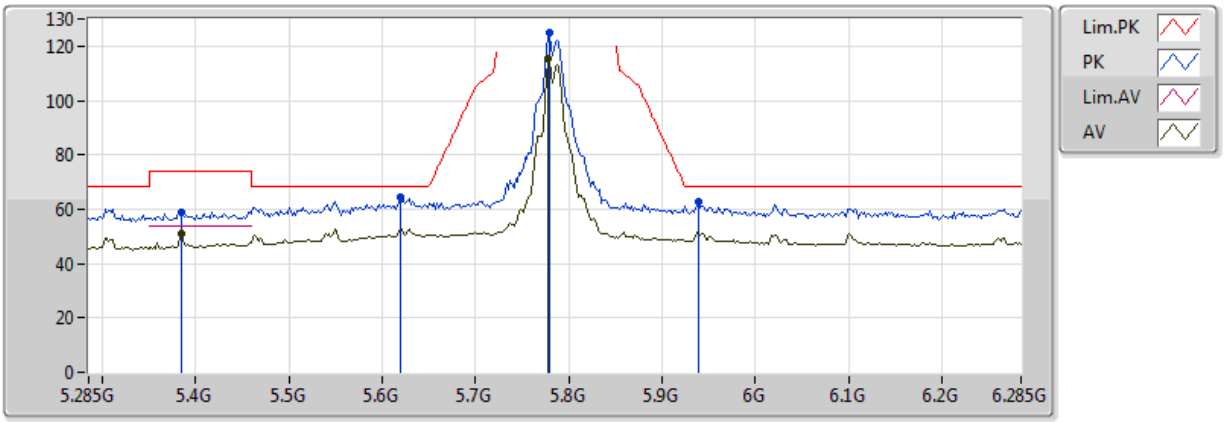


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4898G	48.92	54.00	-5.08	14.75	3	H	238	1.18	-
PK	11.4914G	57.80	74.00	-16.20	14.75	3	H	238	1.18	-

802.11a_(6Mbps)_8TX

5785MHz_TX

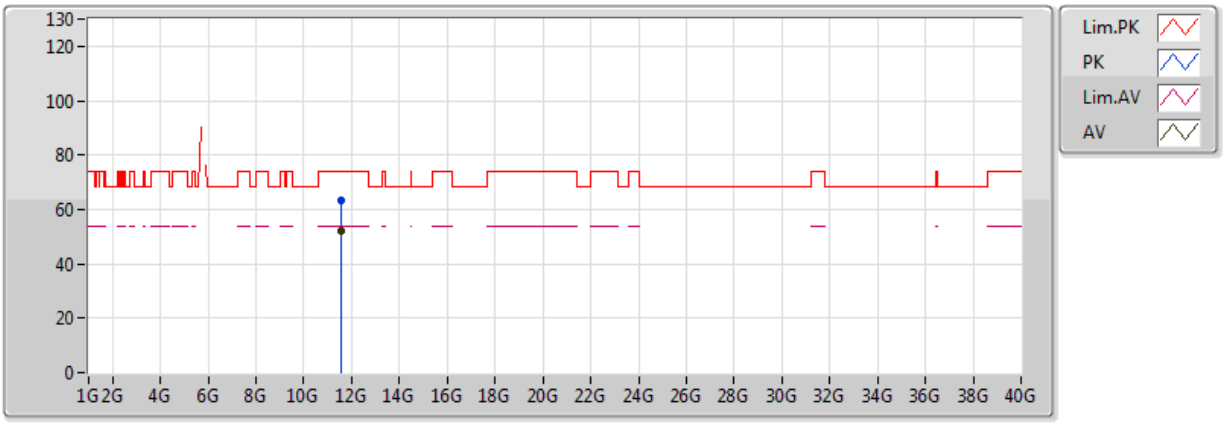


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-10
FSP AMP在裡面
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.777G	115.69	Inf	-Inf	6.36	3	V	99	1.67	-
PK	5.619G	64.40	68.20	-3.80	6.17	3	V	99	1.67	-
PK	5.779G	124.90	Inf	-Inf	6.36	3	V	99	1.67	-
PK	5.939G	62.81	68.20	-5.39	7.20	3	V	99	1.67	-
PK	5.385G	59.06	74.00	-14.94	5.13	3	V	99	1.67	-
AV	5.385G	50.84	54.00	-3.16	5.13	3	V	99	1.67	-

802.11a_(6Mbps)_8TX

5785MHz_TX

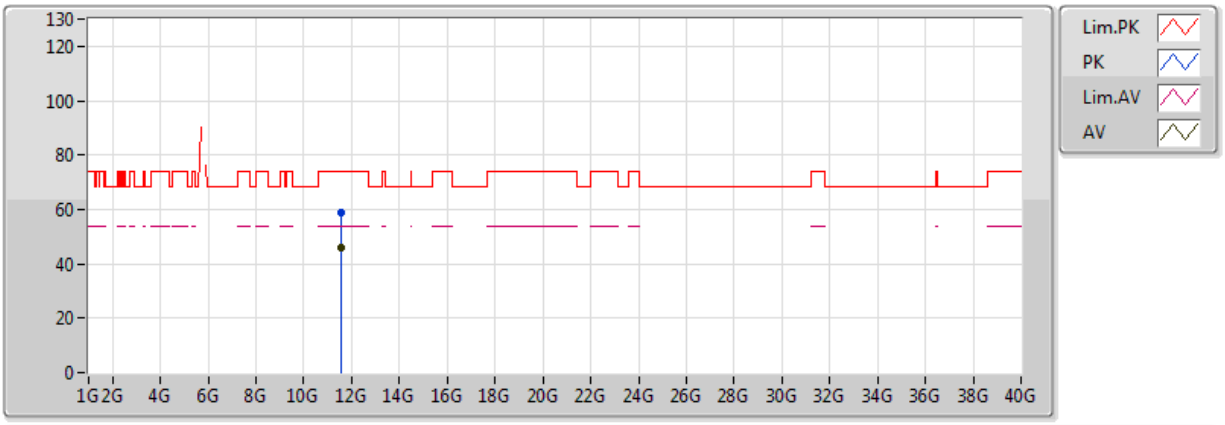


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.5702G	51.98	54.00	-2.02	14.77	3	V	163	1.14	-
PK	11.5662G	63.50	74.00	-10.50	14.77	3	V	163	1.14	-

802.11a_(6Mbps)_8TX

5785MHz_TX

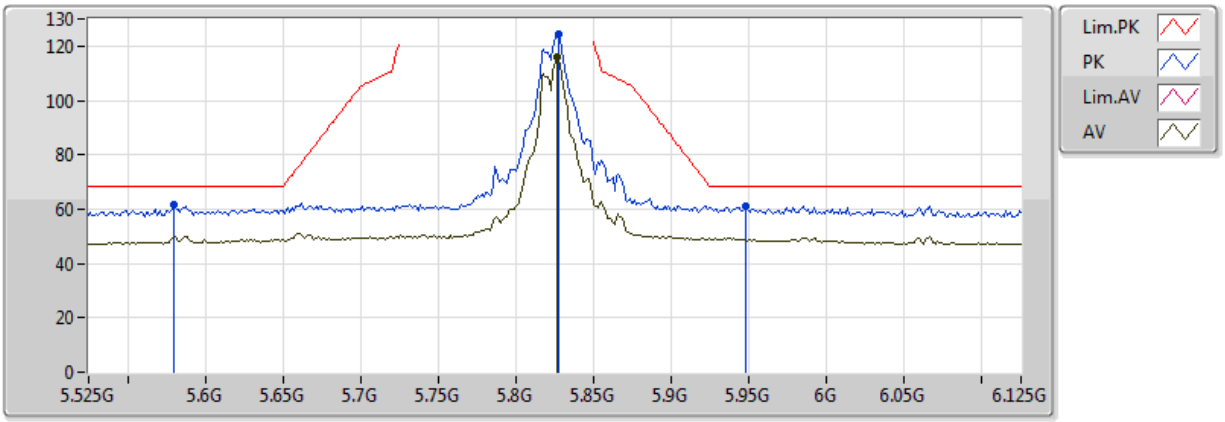


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57G	45.83	54.00	-8.17	14.77	3	H	45	2.49	-
PK	11.5702G	58.83	74.00	-15.17	14.77	3	H	45	2.49	-

802.11a_(6Mbps)_8TX

5825MHz_TX

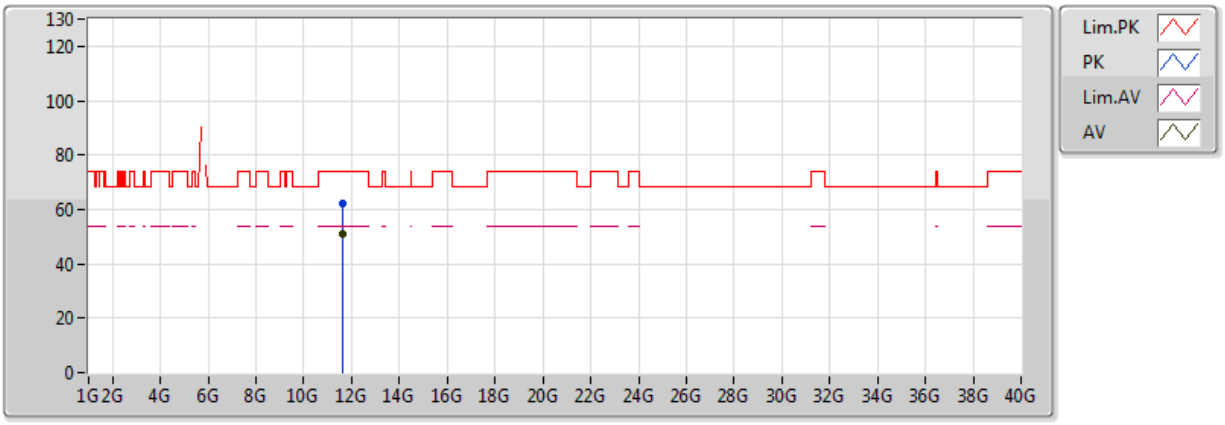


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-10
FSP AMP在裡面
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.8262G	115.77	Inf	-Inf	6.54	3	V	294	1.50	-
PK	5.5802G	61.65	68.20	-6.55	6.04	3	V	294	1.50	-
PK	5.8274G	124.51	Inf	-Inf	6.55	3	V	294	1.50	-
PK	5.9474G	60.94	68.20	-7.26	7.24	3	V	294	1.50	-

802.11a_(6Mbps)_8TX

5825MHz_TX

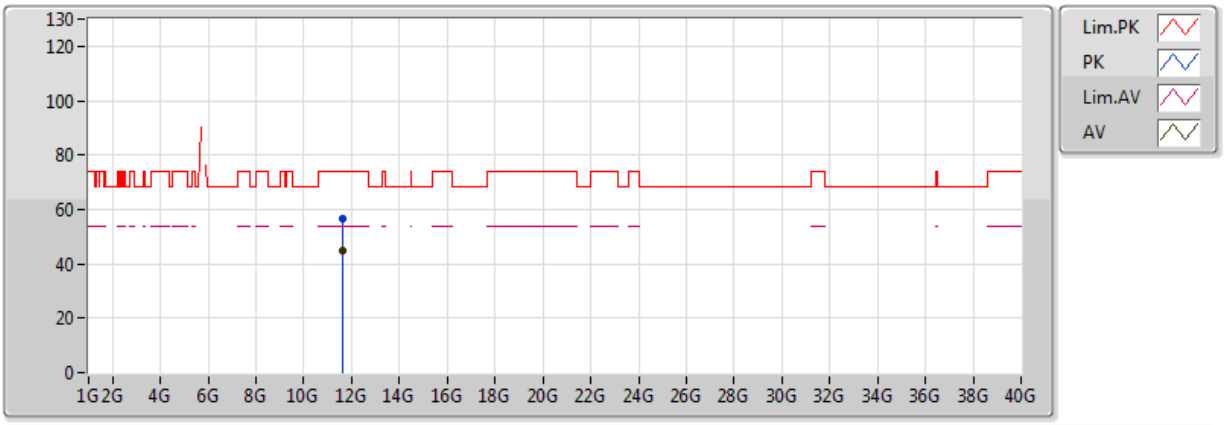


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6498G	51.02	54.00	-2.98	14.79	3	V	69	2.43	-
PK	11.6554G	62.42	74.00	-11.58	14.79	3	V	69	2.43	-

802.11a_(6Mbps)_8TX

5825MHz_TX

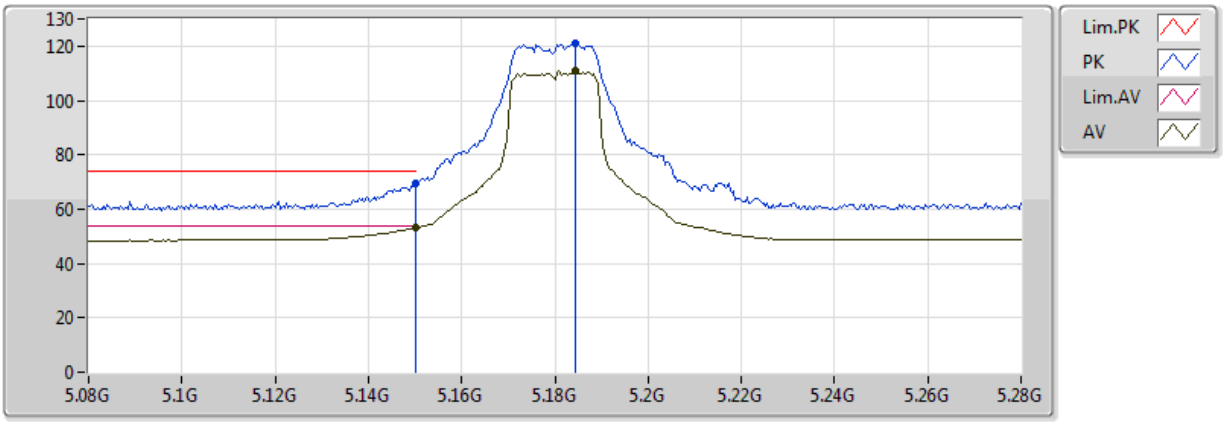


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6516G	44.63	54.00	-9.37	14.79	3	H	193	2.59	-
PK	11.651G	56.54	74.00	-17.46	14.79	3	H	193	2.59	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5180MHz_TX

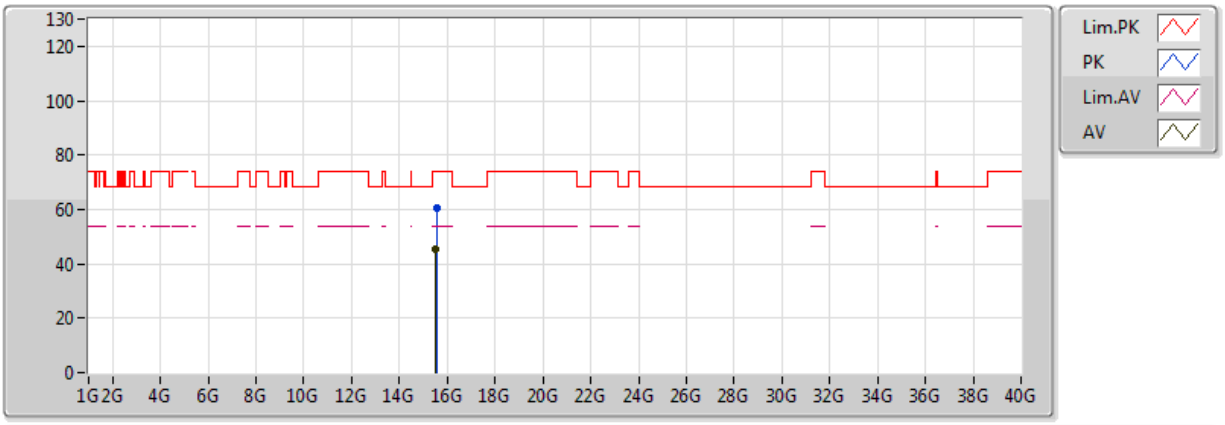


20170410
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01-13
Status 1 Commend

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	52.98	54.00	-1.02	4.77	3	V	147	1.50	-
AV	5.1844G	110.96	Inf	-Inf	4.90	3	V	147	1.50	-
PK	5.149995G	69.30	74.00	-4.70	4.77	3	V	147	1.50	-
PK	5.1844G	121.17	Inf	-Inf	4.90	3	V	147	1.50	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5180MHz_TX

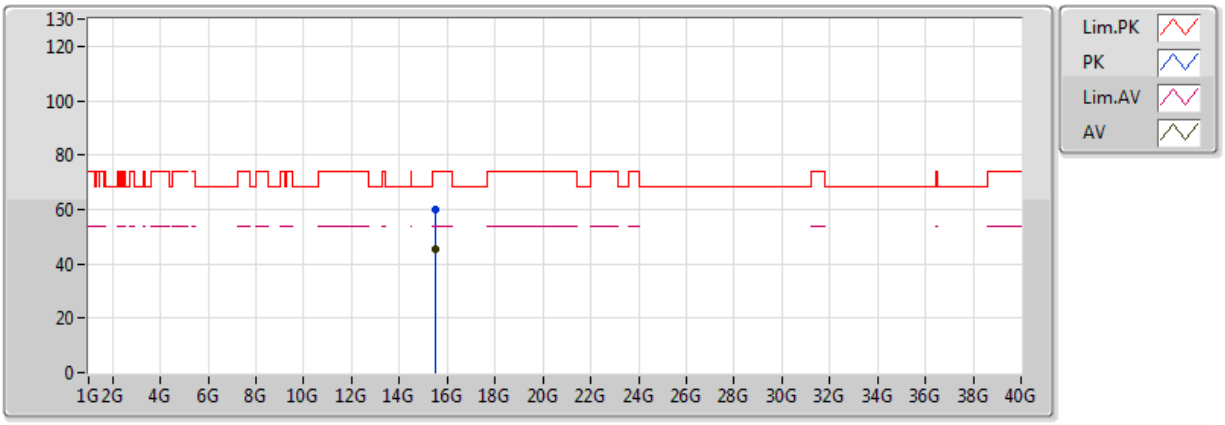


20170411
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53502G	45.61	54.00	-8.39	15.74	3	V	79	1.72	-
PK	15.54084G	60.25	74.00	-13.75	15.73	3	V	79	1.72	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5180MHz_TX

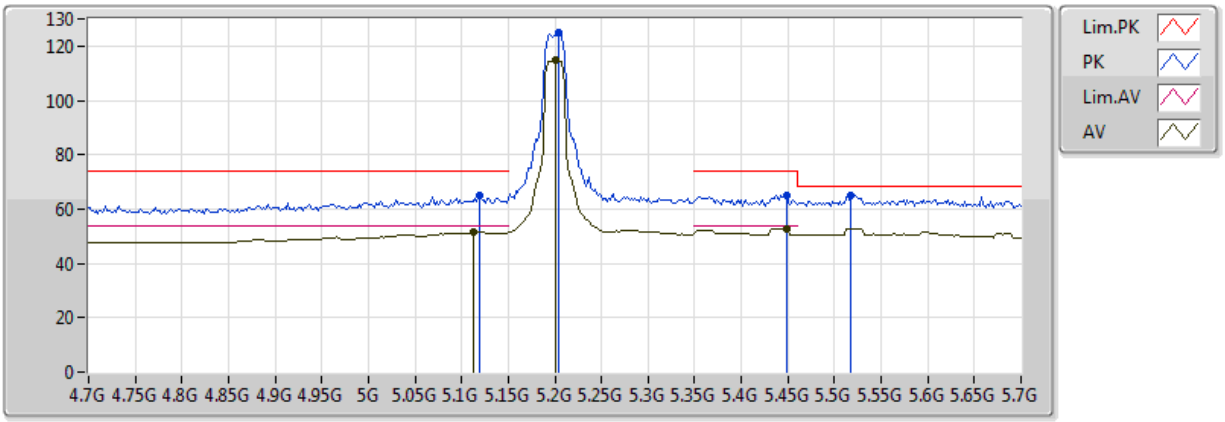


20170411
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53512G	45.55	54.00	-8.45	15.74	3	H	14	1.42	-
PK	15.535G	59.80	74.00	-14.20	15.74	3	H	14	1.42	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5200MHz_TX

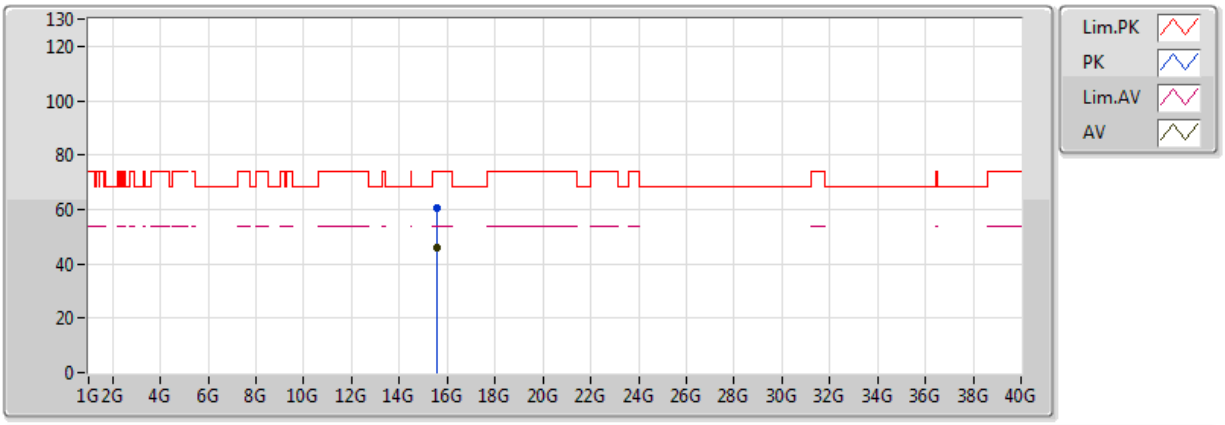


20170410
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01-13
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.112G	51.51	54.00	-2.49	4.64	3	V	90	1.50	-
AV	5.2G	114.68	Inf	-Inf	4.95	3	V	90	1.50	-
AV	5.448G	52.86	54.00	-1.14	5.36	3	V	90	1.50	-
PK	5.12G	64.99	74.00	-9.01	4.67	3	V	90	1.50	-
PK	5.204G	124.91	Inf	-Inf	4.95	3	V	90	1.50	-
PK	5.518G	64.93	68.20	-3.27	5.70	3	V	90	1.50	-
PK	5.448G	64.93	74.00	-9.07	5.70	3	V	90	1.50	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5200MHz_TX

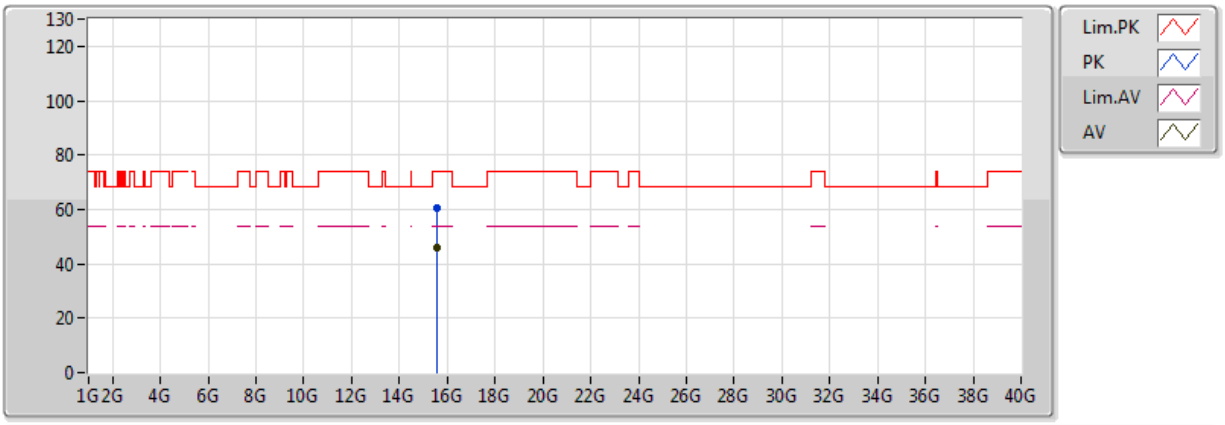


20170411
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59586G	45.92	54.00	-8.08	15.70	3	V	65	2.43	-
PK	15.59728G	60.50	74.00	-13.50	15.70	3	V	65	2.43	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5200MHz_TX

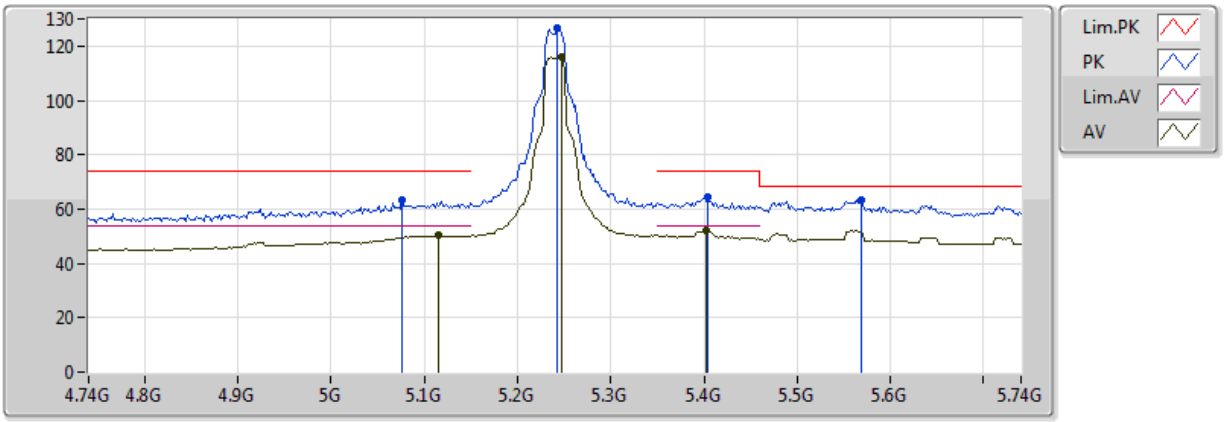


20170411
EUT Z 8TX Non-TXBF
Setting 21/20
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.59646G	45.90	54.00	-8.10	15.70	3	H	248	2.25	-
PK	15.60076G	60.45	74.00	-13.55	15.70	3	H	248	2.25	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5240MHz_TX

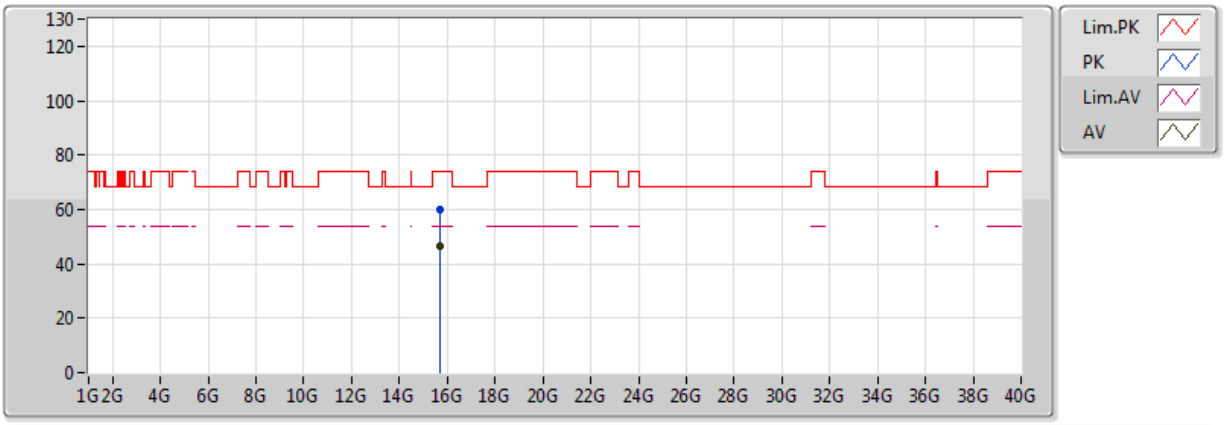


20170410
EUT Z 8TX Non-TXBF
Setting 24/23
04-M-01-13
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.116G	50.16	54.00	-3.84	4.66	3	V	305	1.50	-
AV	5.248G	116.24	Inf	-Inf	5.00	3	V	305	1.50	-
AV	5.402G	52.04	54.00	-1.96	5.15	3	V	305	1.50	-
PK	5.076G	63.14	74.00	-10.86	4.50	3	V	305	1.50	-
PK	5.242G	126.76	Inf	-Inf	5.00	3	V	305	1.50	-
PK	5.568G	63.30	68.20	-4.90	5.97	3	V	305	1.50	-
PK	5.404G	64.45	74.00	-9.55	5.16	3	V	305	1.50	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5240MHz_TX

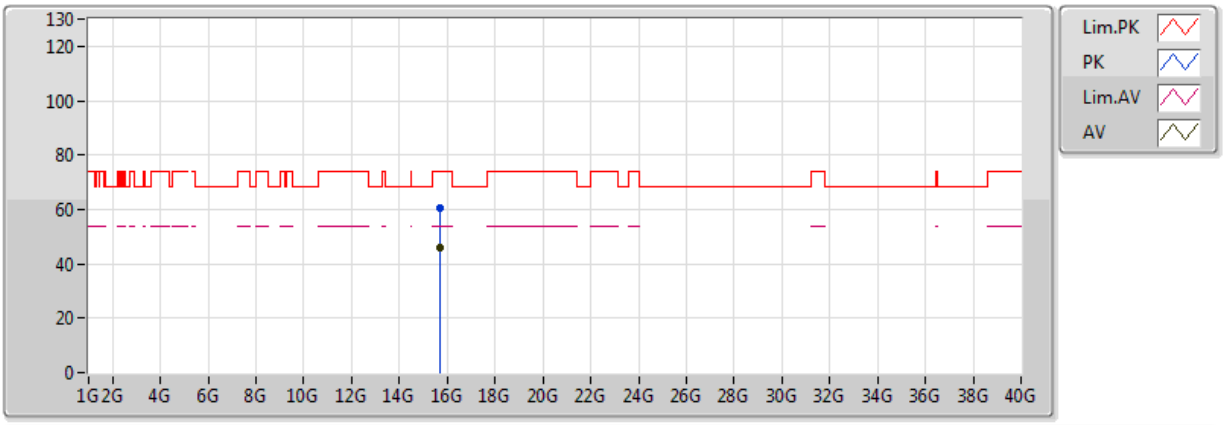


20170411
EUT Z 8TX Non-TXBF
Setting 24/23
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72158G	46.50	54.00	-7.50	15.63	3	V	149	2.06	-
PK	15.72018G	59.83	74.00	-14.17	15.63	3	V	149	2.06	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5240MHz_TX

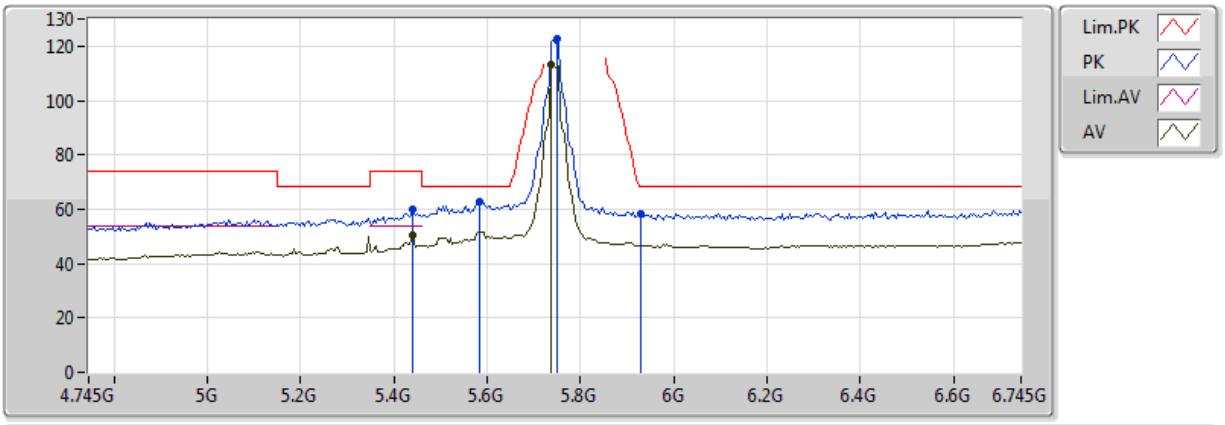


20170411
EUT Z 8TX Non-TXBF
Setting 24/23
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72376G	46.03	54.00	-7.97	15.63	3	H	147	1.48	-
PK	15.71638G	60.37	74.00	-13.63	15.64	3	H	147	1.48	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5745MHz_TX

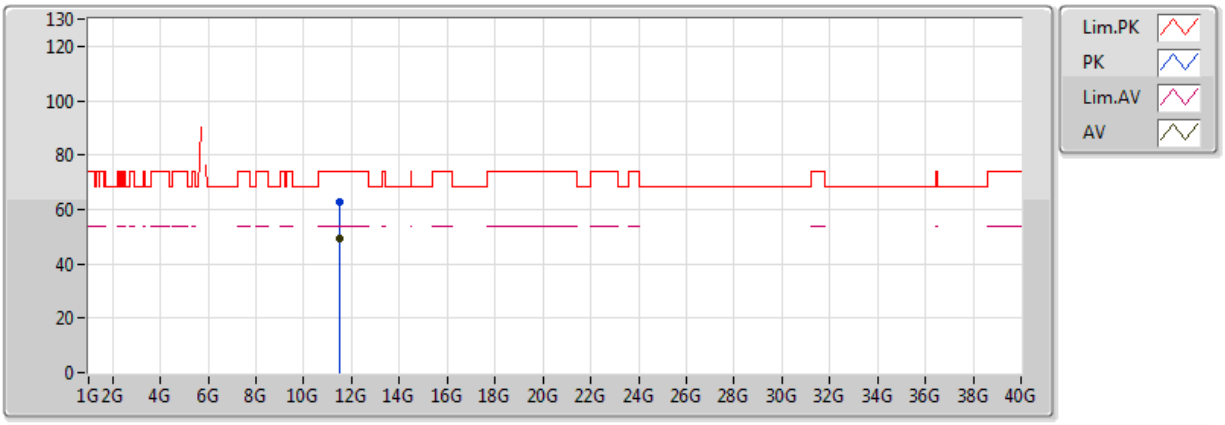


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-10
FSP AMP在裡面
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.737G	112.98	Inf	-Inf	6.31	3	V	90	1.50	-
PK	5.585G	62.82	68.20	-5.38	6.07	3	V	90	1.50	-
PK	5.749G	122.57	Inf	-Inf	6.33	3	V	90	1.50	-
PK	5.929G	58.23	68.20	-9.97	7.14	3	V	90	1.50	-
PK	5.441G	60.11	74.00	-13.89	5.33	3	V	90	1.50	-
AV	5.441G	50.30	54.00	-3.70	5.33	3	V	90	1.50	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5745MHz_TX

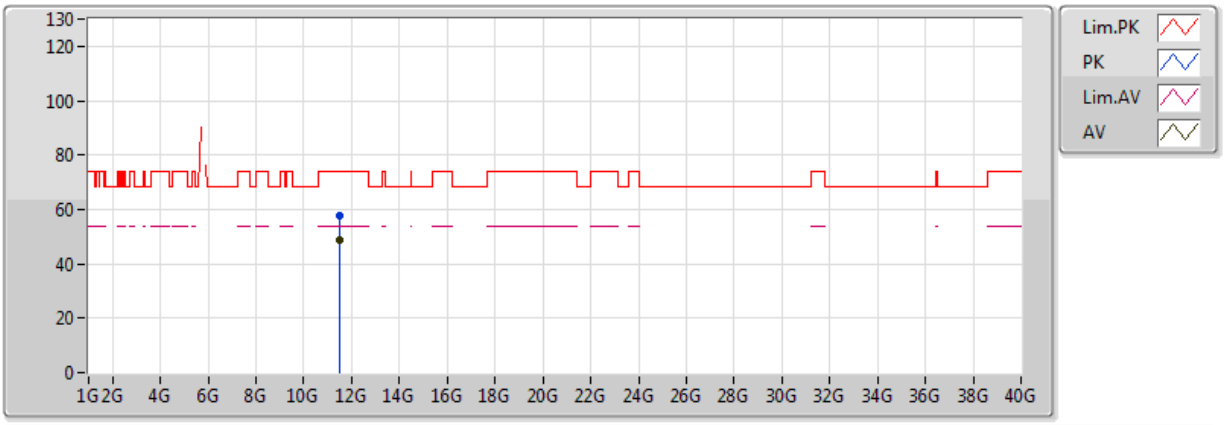


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4898G	49.27	54.00	-4.73	14.75	3	V	120	1.79	-
PK	11.4904G	62.63	74.00	-11.37	14.75	3	V	120	1.79	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5745MHz_TX

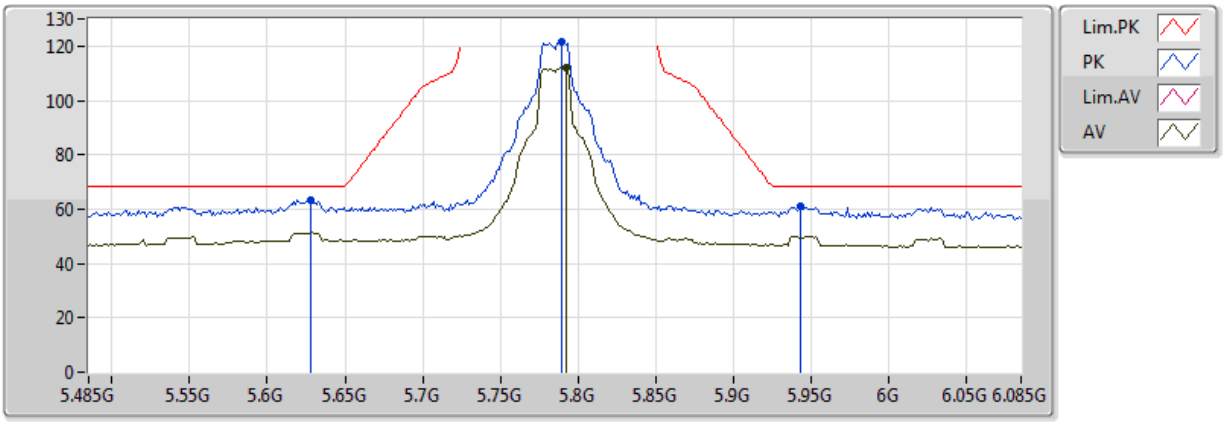


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48982G	48.72	54.00	-5.28	14.75	3	H	61	1.70	-
PK	11.48994G	57.64	74.00	-16.36	14.75	3	H	61	1.70	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5785MHz_TX

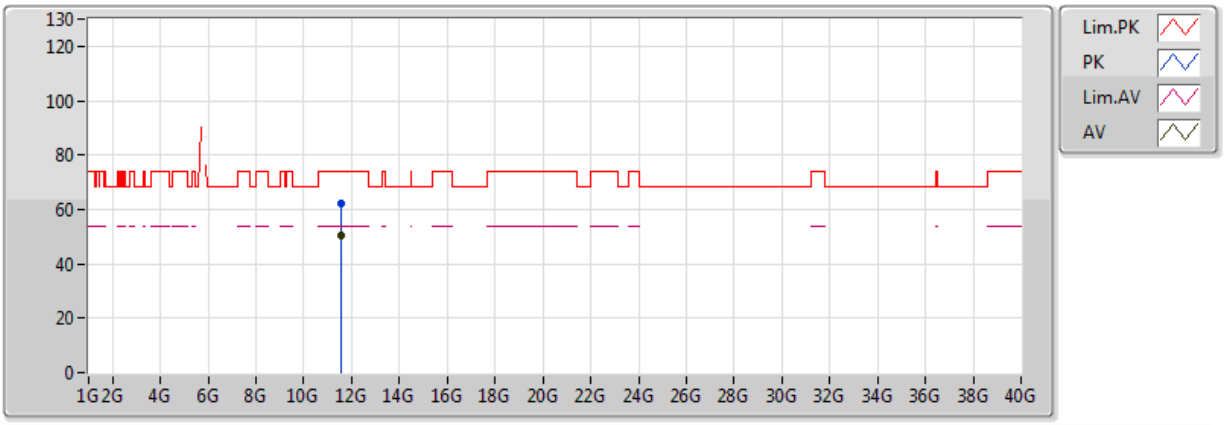


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-10
FSP AMP在裡面
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7922G	112.20	Inf	-Inf	6.38	3	V	147	1.50	-
PK	5.6278G	63.56	68.20	-4.64	6.18	3	V	147	1.50	-
PK	5.7898G	121.85	Inf	-Inf	6.38	3	V	147	1.50	-
PK	5.9434G	61.13	68.20	-7.07	7.22	3	V	147	1.50	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5785MHz_TX

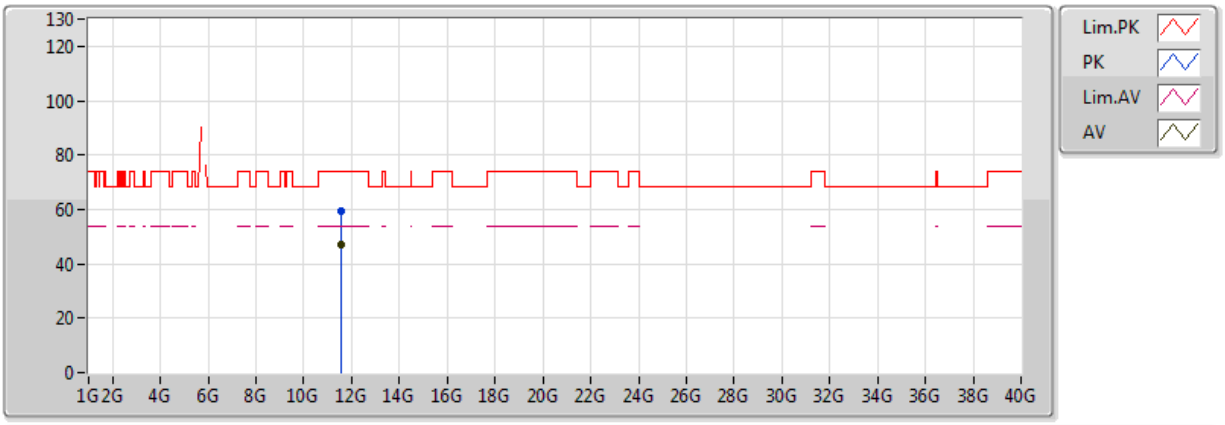


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.5698G	50.58	54.00	-3.42	14.77	3	V	190	1.33	-
PK	11.5688G	62.44	74.00	-11.56	14.77	3	V	190	1.33	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5785MHz_TX

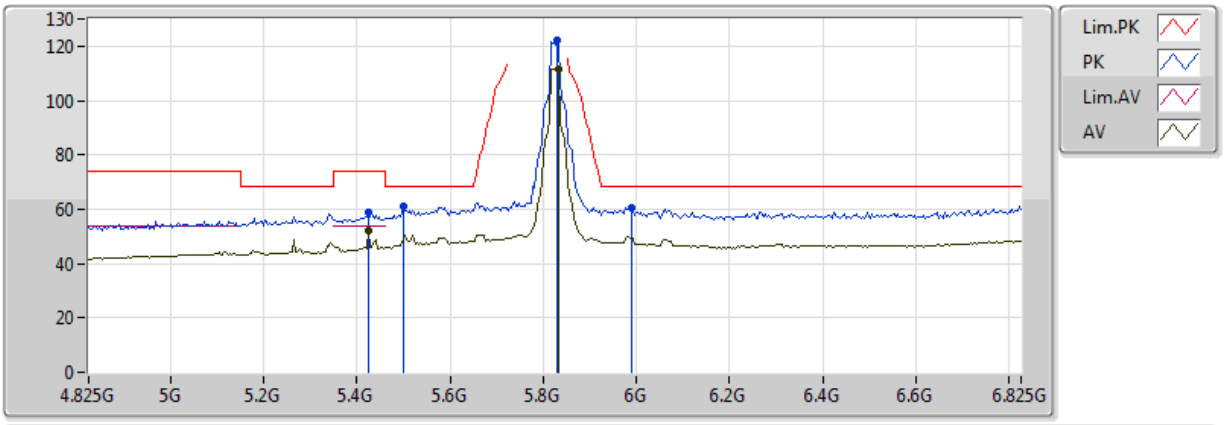


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.56976G	46.81	54.00	-7.19	14.77	3	H	161	1.71	-
PK	11.57084G	59.64	74.00	-14.36	14.77	3	H	161	1.71	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5825MHz_TX

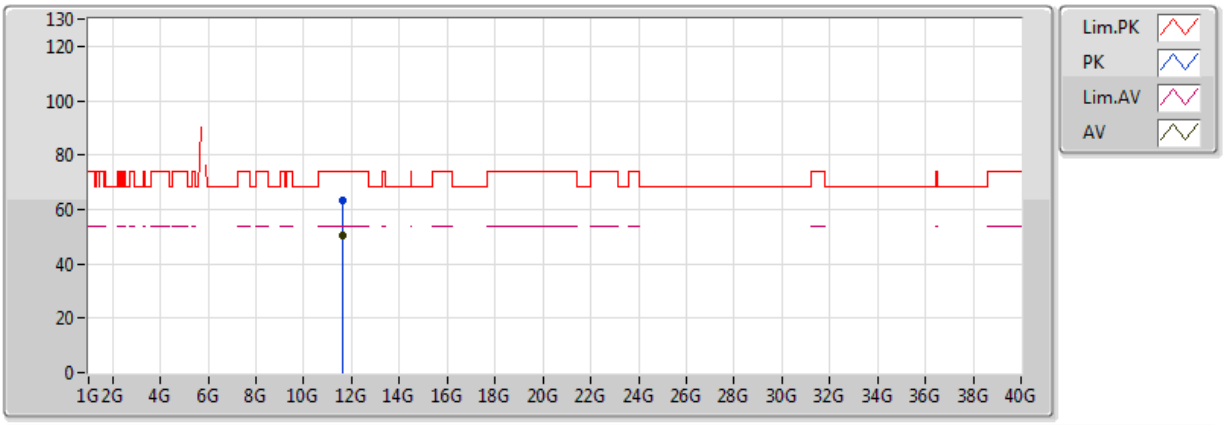


20170410
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01-10
FSP AMP在裡面
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.833G	111.62	Inf	-Inf	6.58	3	V	105	1.50	-
PK	5.501G	60.96	68.20	-7.24	5.61	3	V	105	1.50	-
PK	5.829G	121.93	Inf	-Inf	6.56	3	V	105	1.50	-
PK	5.989G	60.42	68.20	-7.78	7.49	3	V	105	1.50	-
PK	5.425G	58.74	74.00	-15.26	5.25	3	V	105	1.50	-
AV	5.425G	52.33	54.00	-1.67	5.25	3	V	105	1.50	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5825MHz_TX

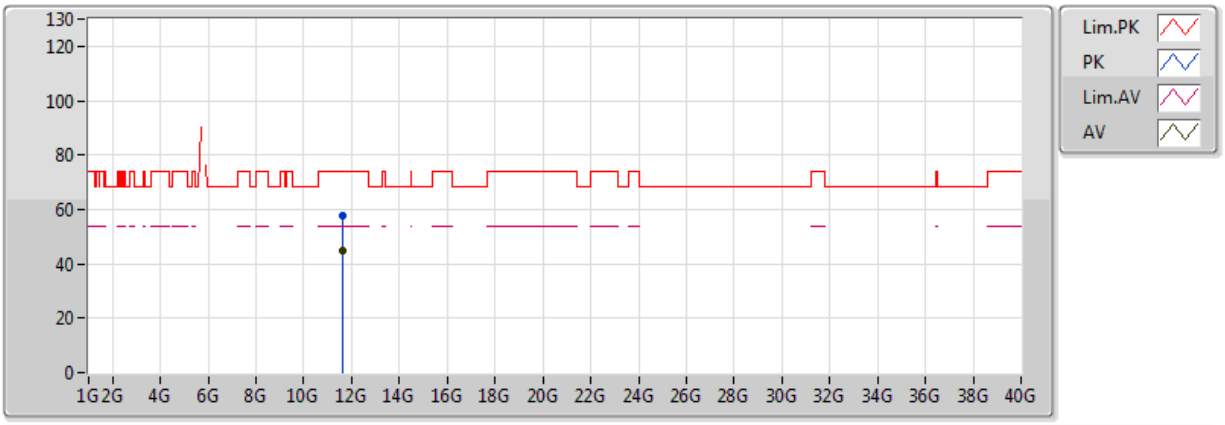


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6502G	50.54	54.00	-3.46	14.79	3	V	104	2.07	-
PK	11.6504G	63.16	74.00	-10.84	14.79	3	V	104	2.07	-

802.11ac VHT20_Nss2,(MCS0)_8TX

5825MHz_TX

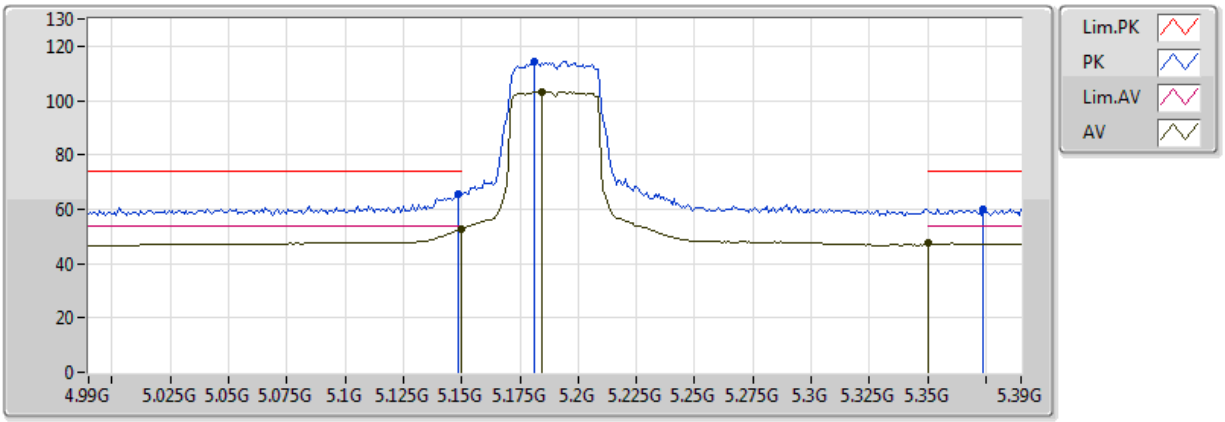


20170411
EUT Z 8TX Non-TXBF
Setting 24/24
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.6502G	45.09	54.00	-8.91	14.79	3	H	155	1.43	-
PK	11.6484G	57.58	74.00	-16.42	14.79	3	H	155	1.43	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5190MHz_TX

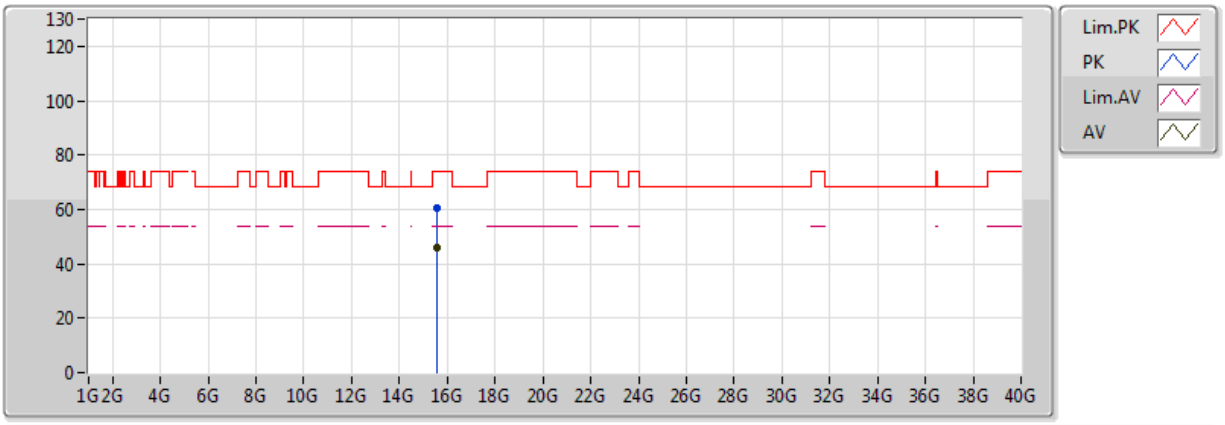


20170410
EUT Z 8TX Non-TXBF
Setting 16/15
04-M-01-13
Status 1 Commend

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	52.70	54.00	-1.30	4.77	3	V	271	1.50	-
AV	5.1844G	103.28	Inf	-Inf	4.90	3	V	271	1.50	-
AV	5.350005G	47.57	54.00	-6.43	5.10	3	V	271	1.50	-
PK	5.1484G	65.64	74.00	-8.36	4.77	3	V	271	1.50	-
PK	5.1812G	114.50	Inf	-Inf	4.88	3	V	271	1.50	-
PK	5.374G	59.80	74.00	-14.20	5.12	3	V	271	1.50	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5190MHz_TX

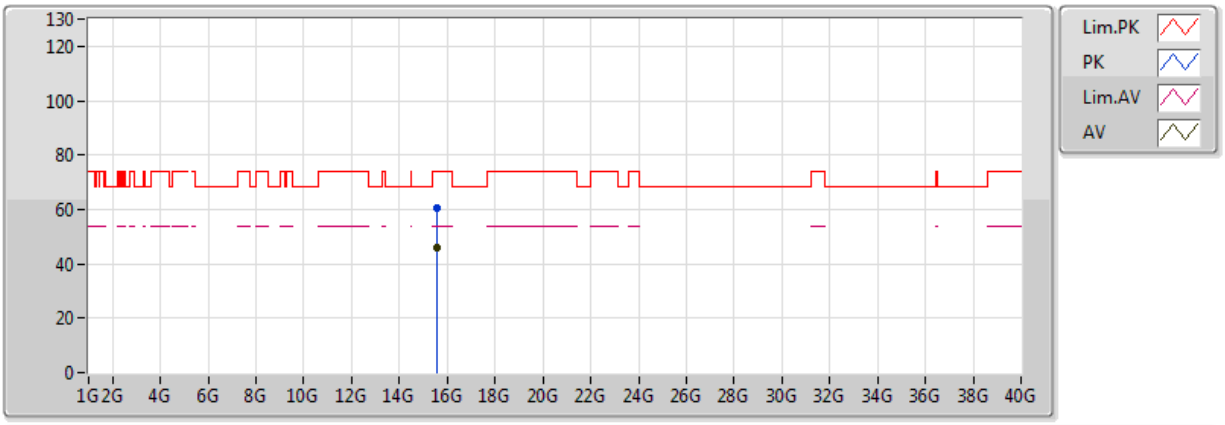


20170411
EUT Z 8TX Non-TXBF
Setting 16/15
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.57222G	45.88	54.00	-8.12	15.72	3	V	182	1.17	-
PK	15.573G	60.74	74.00	-13.26	15.71	3	V	182	1.17	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5190MHz_TX

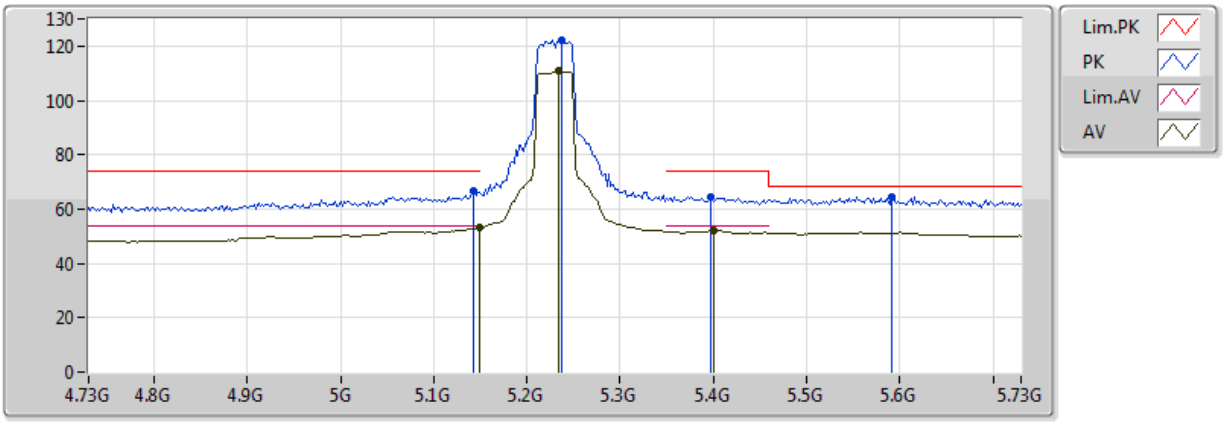


20170411
EUT Z 8TX Non-TXBF
Setting 16/15
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5719G	45.90	54.00	-8.10	15.72	3	H	126	2.17	-
PK	15.56998G	60.26	74.00	-13.74	15.72	3	H	126	2.17	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5230MHz_TX

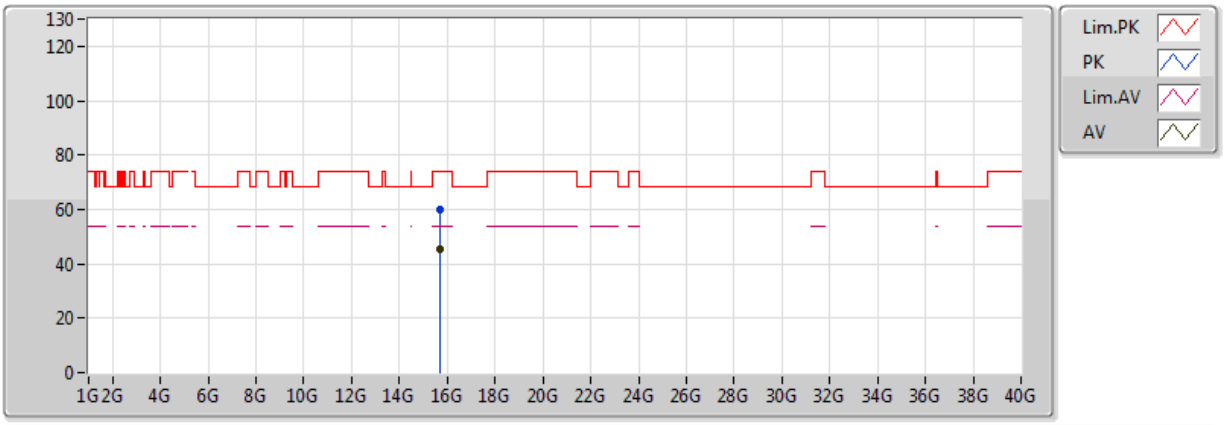


20170410
EUT Z 8TX Non-TXBF
Setting 20/19
04-M-01-13
Status 1 Commend

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	52.99	54.00	-1.01	4.77	3	V	182	1.50	-
AV	5.234G	110.67	Inf	-Inf	4.99	3	V	182	1.50	-
AV	5.4G	52.14	54.00	-1.86	5.14	3	V	182	1.50	-
PK	5.142G	66.81	74.00	-7.19	4.75	3	V	182	1.50	-
PK	5.238G	121.94	Inf	-Inf	4.99	3	V	182	1.50	-
PK	5.592G	64.40	68.20	-3.80	6.11	3	V	182	1.50	-
PK	5.398G	64.63	74.00	-9.37	5.14	3	V	182	1.50	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5230MHz_TX

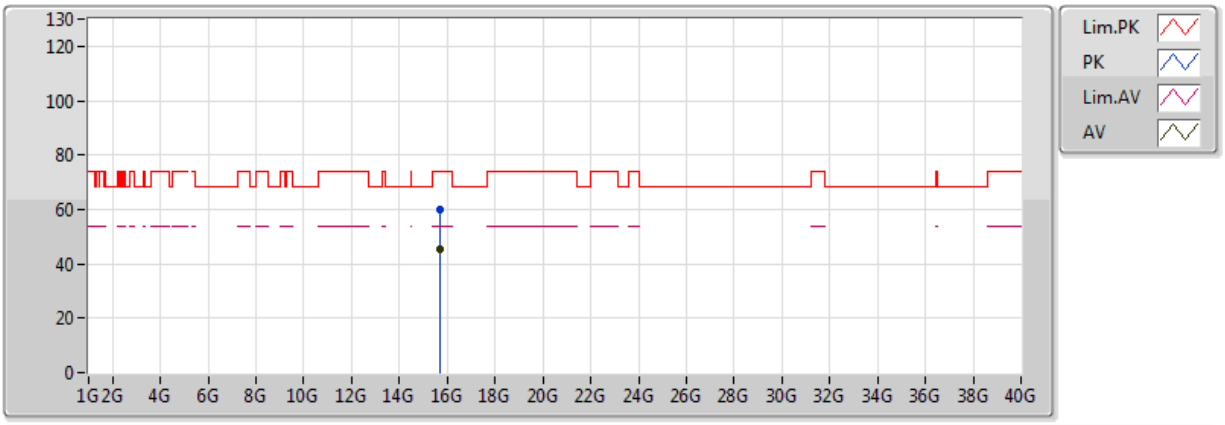


20170411
EUT Z 8TX Non-TXBF
Setting 20/19
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.68564G	45.43	54.00	-8.57	15.65	3	V	170	1.60	-
PK	15.68786G	59.75	74.00	-14.25	15.65	3	V	170	1.60	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5230MHz_TX

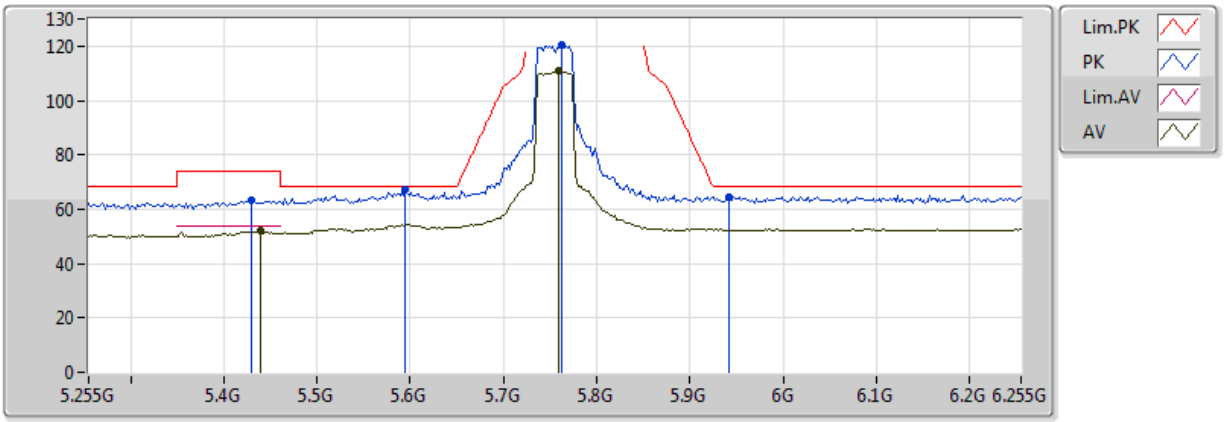


20170411
EUT Z 8TX Non-TXBF
Setting 20/19
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.69032G	45.29	54.00	-8.71	15.65	3	H	269	1.77	-
PK	15.69006G	59.85	74.00	-14.15	15.65	3	H	269	1.77	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5755MHz_TX

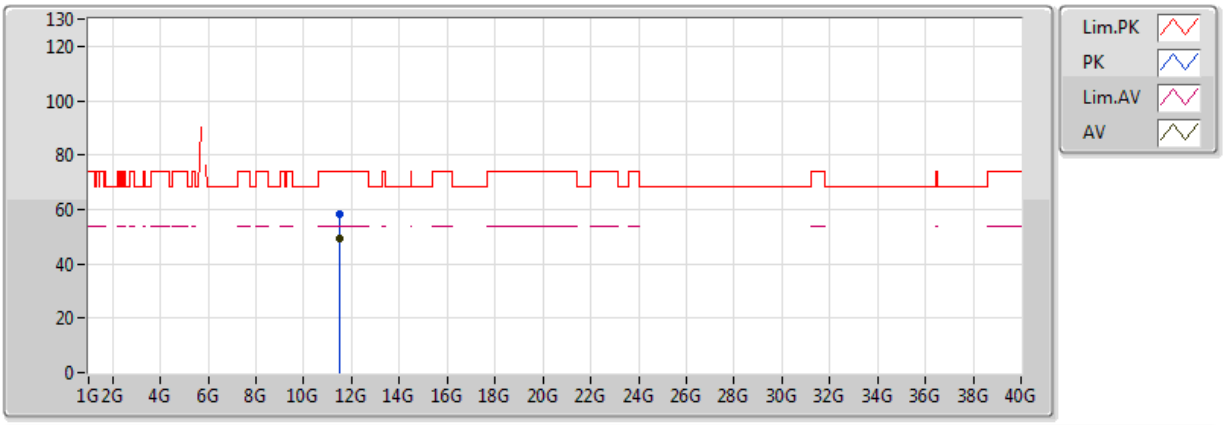


20170411
EUT Z 8TX Non-TXBF
Setting 22/16
04-M-01-13
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.759G	110.73	Inf	-Inf	6.34	3	V	168	1.50	-
PK	5.595G	67.12	68.20	-1.08	6.12	3	V	168	1.50	-
PK	5.763G	120.55	Inf	-Inf	6.35	3	V	168	1.50	-
PK	5.941G	64.54	68.20	-3.66	7.21	3	V	168	1.50	-
PK	5.429G	63.12	74.00	-10.88	5.27	3	V	168	1.50	-
AV	5.439G	52.19	54.00	-1.81	5.32	3	V	168	1.50	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5755MHz_TX

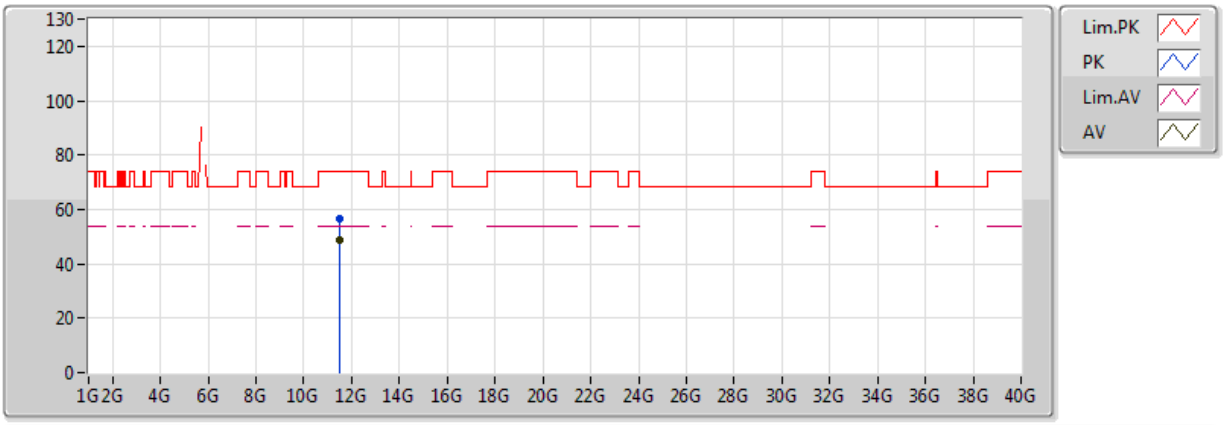


20170411
EUT Z 8TX Non-TXBF
Setting 22/16
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.50986G	49.06	54.00	-4.94	14.75	3	V	47	2.06	-
PK	11.5096G	58.17	74.00	-15.83	14.75	3	V	47	2.06	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5755MHz_TX

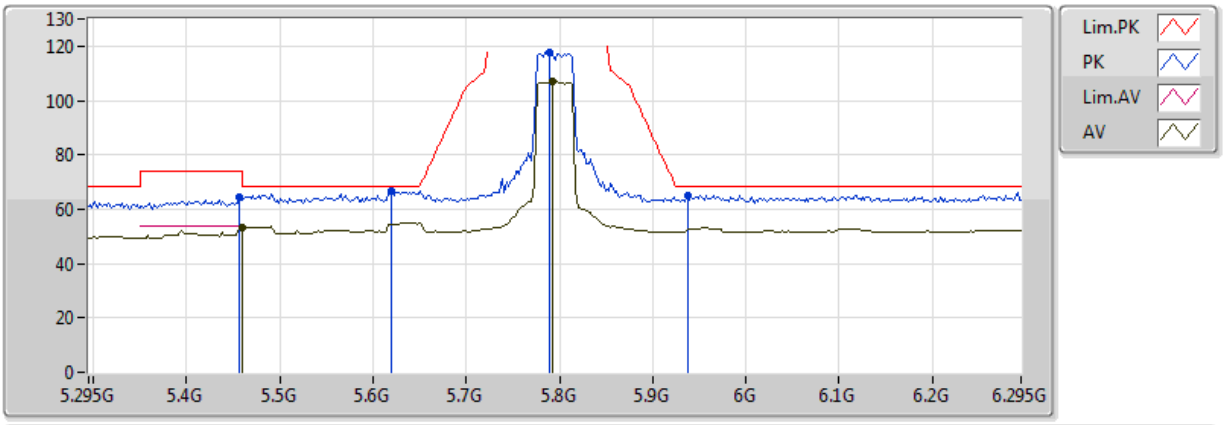


20170411
EUT Z 8TX Non-TXBF
Setting 22/16
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.50988G	48.65	54.00	-5.35	14.75	3	H	47	2.16	-
PK	11.50982G	56.58	74.00	-17.42	14.75	3	H	47	2.16	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5795MHz_TX

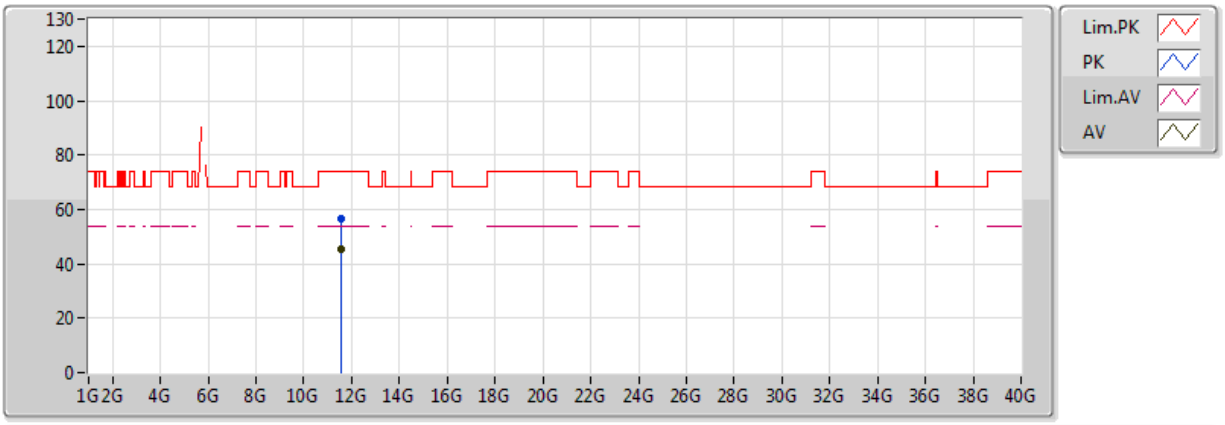


20170411
EUT Z 8TX Non-TXBF
Setting 20/14
04-M-01-13
Status 2 Commend

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	52.98	54.00	-1.02	5.42	3	V	171	1.50	-
AV	5.793G	107.02	Inf	-Inf	6.38	3	V	171	1.50	-
PK	5.619G	66.53	68.20	-1.67	6.17	3	V	171	1.50	-
PK	5.789G	117.68	Inf	-Inf	6.38	3	V	171	1.50	-
PK	5.937G	65.28	68.20	-2.92	7.18	3	V	171	1.50	-
PK	5.457G	64.49	74.00	-9.51	5.40	3	V	171	1.50	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5795MHz_TX

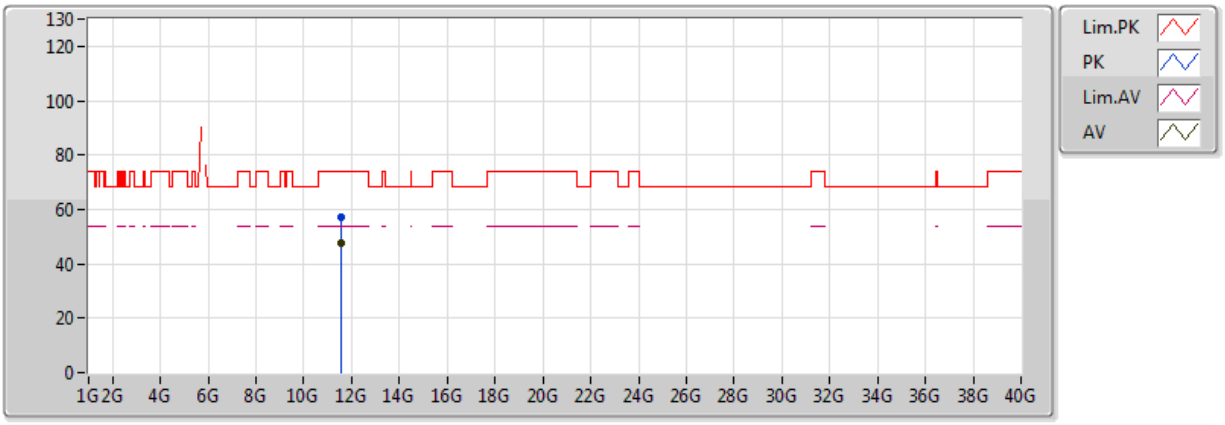


20170411
EUT Z 8TX Non-TXBF
Setting 20/14
04-M-01
Status 2 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.58984G	45.65	54.00	-8.35	14.77	3	V	0	1.01	-
PK	11.58986G	56.61	74.00	-17.39	14.77	3	V	0	1.01	-

802.11ac VHT40_Nss2,(MCS0)_8TX

5795MHz_TX

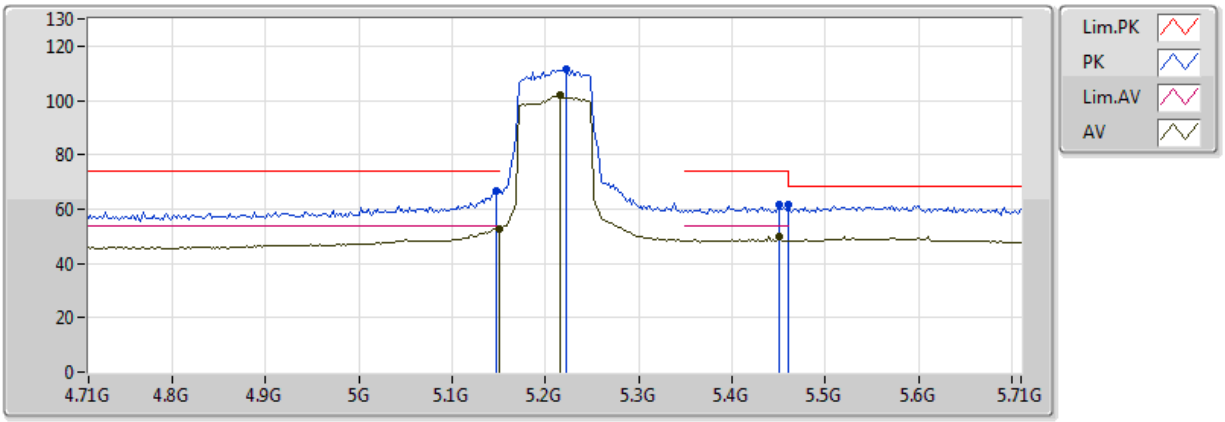


20170411
EUT Z 8TX Non-TXBF
Setting 20/14
04-M-01
Status 2 Commend

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	47.46	54.00	-6.54	14.77	3	H	46	2.40	-
PK	11.58974G	57.05	74.00	-16.95	14.77	3	H	46	2.40	-

802.11ac VHT80_Nss2,(MCS0)_8TX

5210MHz_TX

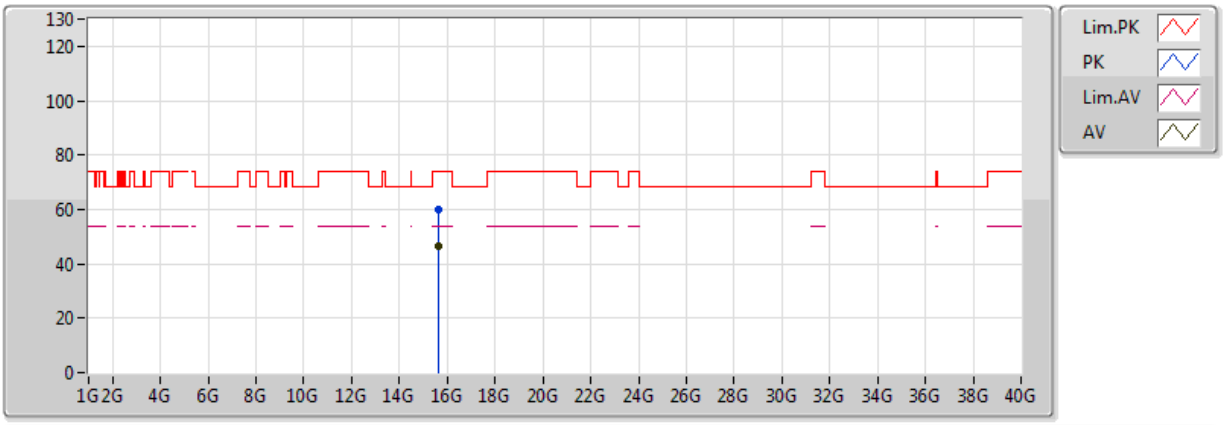


20170411
EUT Z 8TX Non-TXBF
Setting 14/13
04-M-01-10
Status 1 Commend

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	52.94	54.00	-1.06	4.77	3	V	178	1.78	-
AV	5.216G	101.87	Inf	-Inf	4.97	3	V	178	1.78	-
AV	5.45G	49.95	54.00	-4.05	5.37	3	V	178	1.78	-
PK	5.148G	66.59	74.00	-7.41	4.77	3	V	178	1.78	-
PK	5.222G	111.43	Inf	-Inf	4.97	3	V	178	1.78	-
PK	5.460005G	61.50	68.20	-6.70	5.42	3	V	178	1.78	-
PK	5.45G	61.46	74.00	-12.54	5.42	3	V	178	1.78	-

802.11ac VHT80_Nss2,(MCS0)_8TX

5210MHz_TX

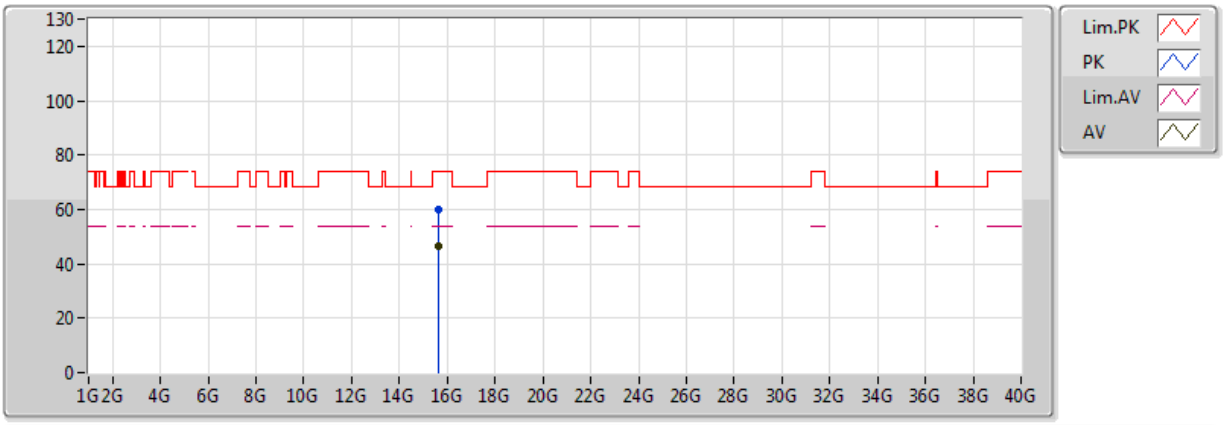


20170411
EUT Z 8TX Non-TXBF
Setting 14/13
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6265G	46.34	54.00	-7.66	15.69	3	V	291	1.50	-
PK	15.63056G	60.12	74.00	-13.88	15.68	3	V	291	1.50	-

802.11ac VHT80_Nss2,(MCS0)_8TX

5210MHz_TX

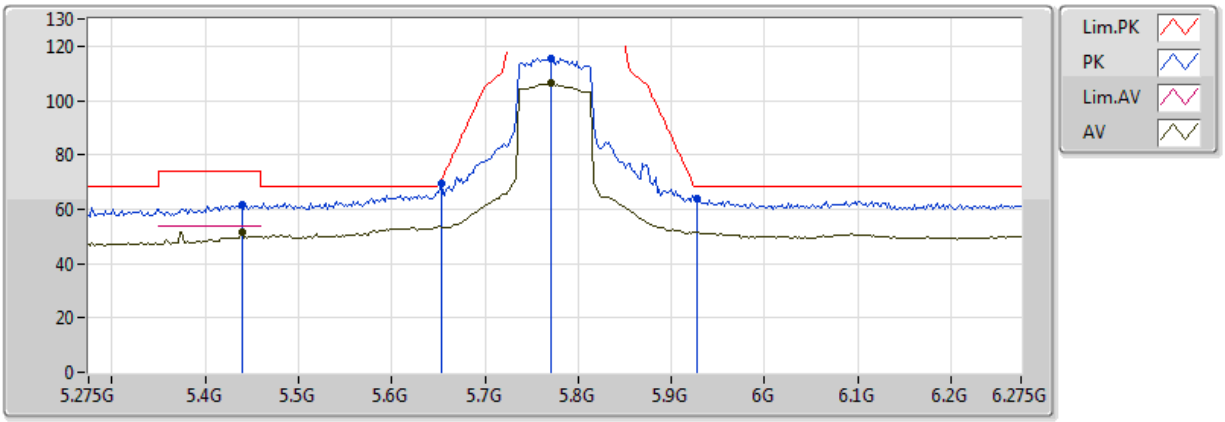


20170411
EUT Z 8TX Non-TXBF
Setting 14/13
04-M-01
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.63336G	46.39	54.00	-7.61	15.68	3	H	359	1.08	-
PK	15.63012G	59.68	74.00	-14.32	15.68	3	H	359	1.08	-

802.11ac VHT80_Nss2,(MCS0)_8TX

5775MHz_TX

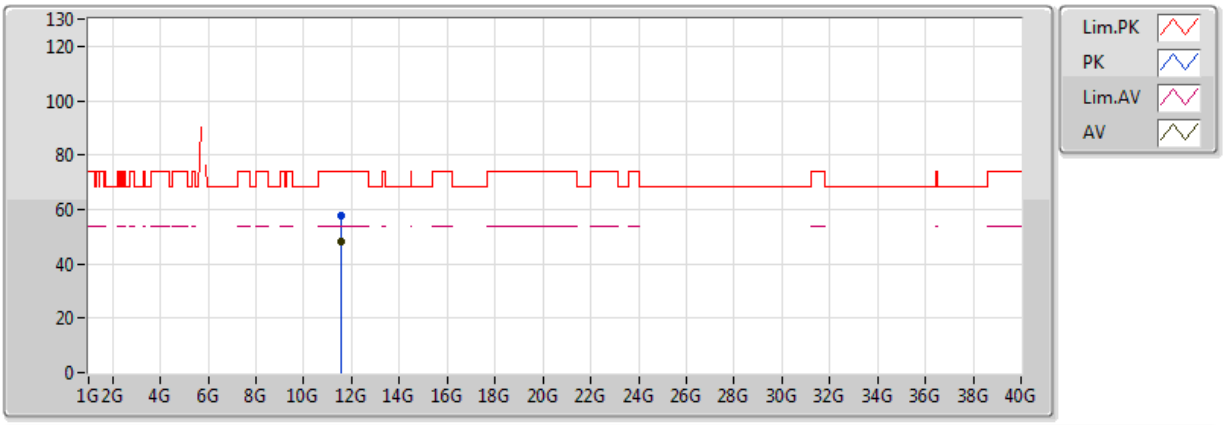


20170411
EUT Z 8TX Non-TXBF
Setting 21/15
04-M-01-10
Status 2 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.439G	51.83	54.00	-2.17	5.32	3	V	174	1.50	-
AV	5.771G	106.19	Inf	-Inf	6.36	3	V	174	1.50	-
PK	5.653G	69.23	70.42	-1.19	6.21	3	V	174	1.50	-
PK	5.771G	115.41	Inf	-Inf	6.36	3	V	174	1.50	-
PK	5.927G	63.84	68.20	-4.36	7.13	3	V	174	1.50	-
PK	5.439G	61.75	74.00	-12.25	5.32	3	V	174	1.50	-

802.11ac VHT80_Nss2,(MCS0)_8TX

5775MHz_TX

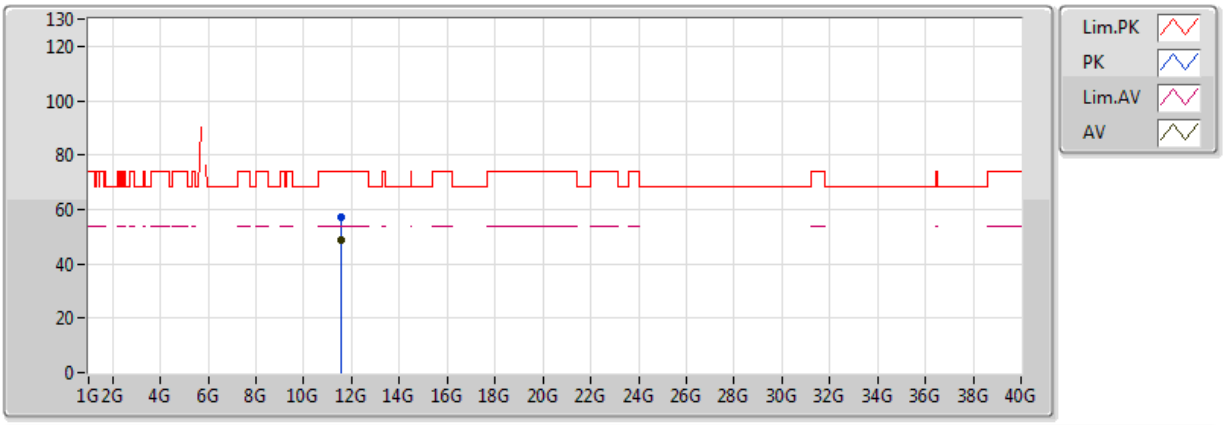


20170411
EUT Z 8TX Non-TXBF
Setting 21/15
04-M-01
Status 2 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.5498G	48.09	54.00	-5.91	14.76	3	V	48	2.12	-
PK	11.54978G	57.53	74.00	-16.47	14.76	3	V	48	2.12	-

802.11ac VHT80_Nss2,(MCS0)_8TX

5775MHz_TX

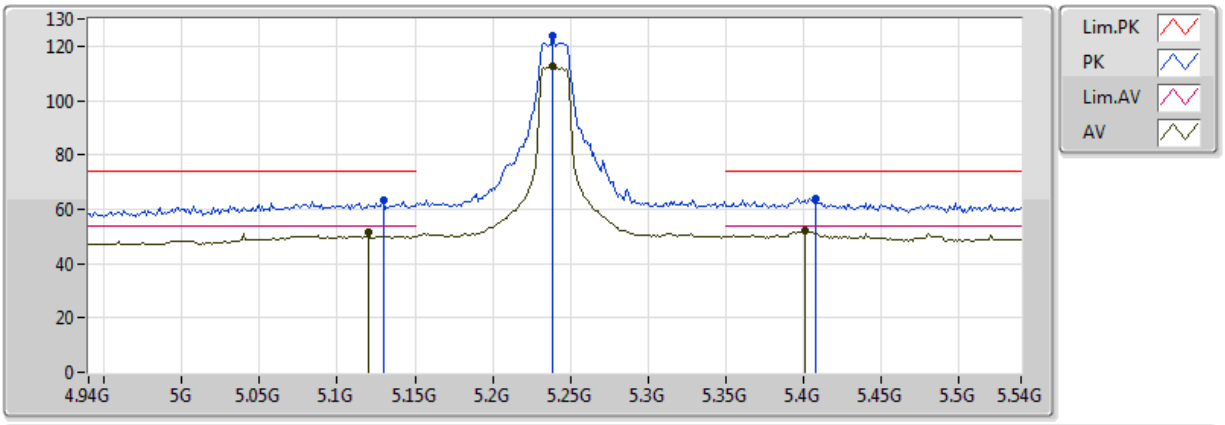


20170411
EUT Z 8TX Non-TXBF
Setting 21/15
04-M-01
Status 2 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.5499G	48.56	54.00	-5.44	14.76	3	H	46	2.20	-
PK	11.54994G	57.12	74.00	-16.88	14.76	3	H	46	2.20	-

802.11ac VHT20_Nss4,(MCS0)_8TX

5240MHz_TX

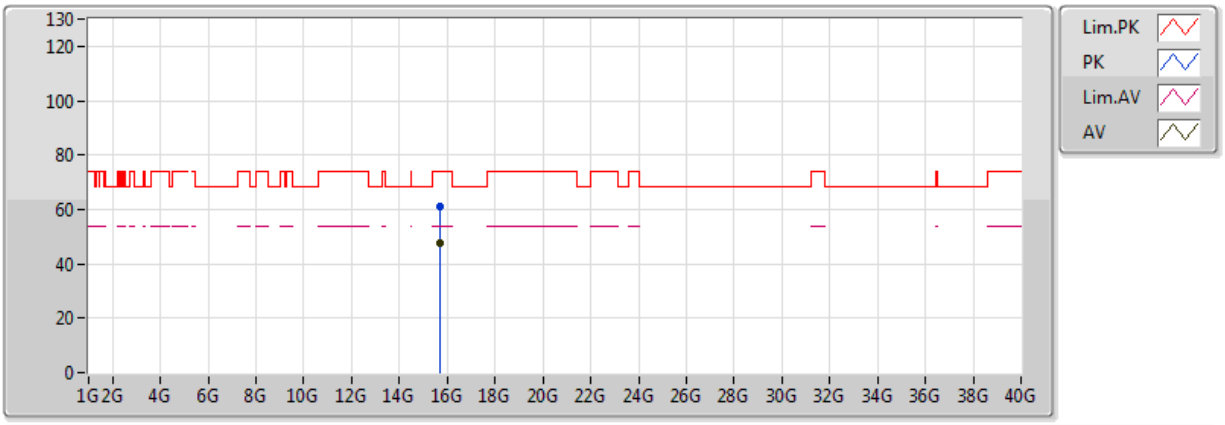


20170417
EUT Z_8TX
Setting 24/24
04-P-2-10
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.12G	51.45	54.00	-2.55	5.38	3	V	170	1.62	-
AV	5.2388G	112.44	Inf	-Inf	5.62	3	V	170	1.62	-
AV	5.4008G	51.97	54.00	-2.03	5.91	3	V	170	1.62	-
PK	5.1296G	63.19	74.00	-10.81	5.40	3	V	170	1.62	-
PK	5.2388G	123.72	Inf	-Inf	5.62	3	V	170	1.62	-
PK	5.408G	63.76	74.00	-10.24	5.93	3	V	170	1.62	-

802.11ac VHT20_Nss4,(MCS0)_8TX

5240MHz_TX

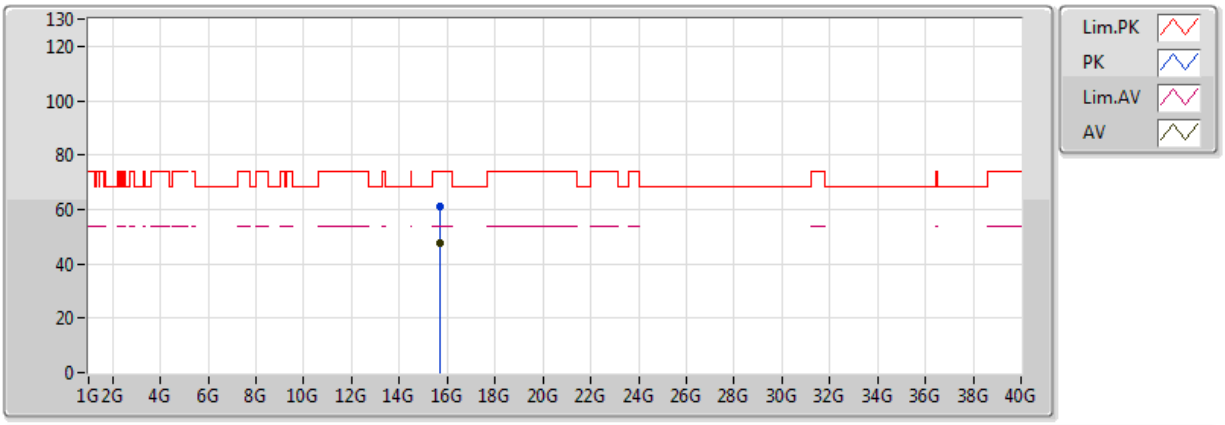


20170417
EUT Z_8TX
Setting 24/24
04-P-2
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71922G	47.75	54.00	-6.25	15.72	3	V	110	1.59	-
PK	15.7227G	60.89	74.00	-13.11	15.71	3	V	110	1.59	-

802.11ac VHT20_Nss4,(MCS0)_8TX

5240MHz_TX



20170417
EUT Z_8TX
Setting 24/24
04-P-2
Status 1 Commend

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72414G	47.38	54.00	-6.62	15.71	3	H	240	1.50	-
PK	15.7161G	61.24	74.00	-12.76	15.73	3	H	240	1.50	-

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

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9827	5199.9820	5199.9815	5199.9827
110.00	5199.9826	5199.9820	5199.9817	5199.9826
93.50	5199.9819	5199.9810	5199.9800	5199.9819
Max. Deviation (MHz)	0.0181	0.0190	0.0200	0.0181
Max. Deviation (ppm)	3.48	3.65	3.85	3.48
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9854	5199.9824	5199.9815	5199.9854
10	5199.9838	5199.9827	5199.9819	5199.9838
20	5199.9826	5199.9825	5199.9815	5199.9826
30	5199.9230	5199.9226	5199.9216	5199.9230
40	5199.9227	5199.9214	5199.9206	5199.9227
Max. Deviation (MHz)	0.0787	0.0796	0.0802	0.0787
Max. Deviation (ppm)	15.13	15.31	15.42	15.13
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9829	5784.9824	5784.9823	5784.9814
110.00	5784.9826	5784.9816	5784.9810	5784.9808
93.50	5784.9820	5784.9818	5784.9809	5784.9801
Max. Deviation (MHz)	0.0180	0.0184	0.0191	0.0199
Max. Deviation (ppm)	3.11	3.18	3.30	3.44
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9843	5784.9838	5784.9833	5784.9823
10	5784.9831	5784.9827	5784.9818	5784.9810
20	5784.9826	5784.9818	5784.9811	5784.9805
30	5784.9230	5784.9229	5784.9224	5784.9217
40	5784.9220	5784.9210	5784.9202	5784.9199
Max. Deviation (MHz)	0.0780	0.0790	0.0798	0.0801
Max. Deviation (ppm)	13.48	13.66	13.79	13.85
Result	Pass			

Mode: 40 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9833	5189.9831	5189.9830	5189.9833
110.00	5189.9826	5189.9818	5189.9811	5189.9826
93.50	5189.9825	5189.9817	5189.9809	5189.9825
Max. Deviation (MHz)	0.0175	0.0183	0.0191	0.0175
Max. Deviation (ppm)	3.37	3.53	3.68	3.37
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9863	5189.9856	5189.9849	5189.9863
10	5189.9844	5189.9834	5189.9824	5189.9844
20	5189.9826	5189.9817	5189.9815	5189.9826
30	5189.9230	5189.9226	5189.9224	5189.9230
40	5189.9221	5189.9214	5189.9206	5189.9221
Max. Deviation (MHz)	0.0779	0.0786	0.0794	0.0779
Max. Deviation (ppm)	15.01	15.14	15.30	15.01
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9828	5754.9825	5754.9823	5754.9818
110.00	5754.9826	5754.9825	5754.9820	5754.9814
93.50	5754.9822	5754.9819	5754.9814	5754.9811
Max. Deviation (MHz)	0.0178	0.0181	0.0186	0.0189
Max. Deviation (ppm)	3.09	3.15	3.23	3.28
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9857	5754.9848	5754.9843	5754.9838
10	5754.9842	5754.9841	5754.9831	5754.9825
20	5754.9826	5754.9822	5754.9818	5754.9808
30	5754.9230	5754.9229	5754.9221	5754.9216
40	5754.9214	5754.9204	5754.9203	5754.9197
Max. Deviation (MHz)	0.0786	0.0796	0.0797	0.0803
Max. Deviation (ppm)	13.66	13.83	13.85	13.95
Result	Pass			

Mode: 80 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9831	5209.9826	5209.9820	5209.9831
110.00	5209.9826	5209.9817	5209.9808	5209.9826
93.50	5209.9817	5209.9810	5209.9803	5209.9817
Max. Deviation (MHz)	0.0183	0.0190	0.0197	0.0183
Max. Deviation (ppm)	3.51	3.65	3.78	3.51
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9857	5209.9851	5209.9846	5209.9857
10	5209.9842	5209.9832	5209.9831	5209.9842
20	5209.9826	5209.9822	5209.9813	5209.9826
30	5209.9230	5209.9220	5209.9210	5209.9230
40	5209.9217	5209.9208	5209.9204	5209.9217
Max. Deviation (MHz)	0.0783	0.0792	0.0796	0.0783
Max. Deviation (ppm)	15.03	15.20	15.28	15.03
Result	Pass			

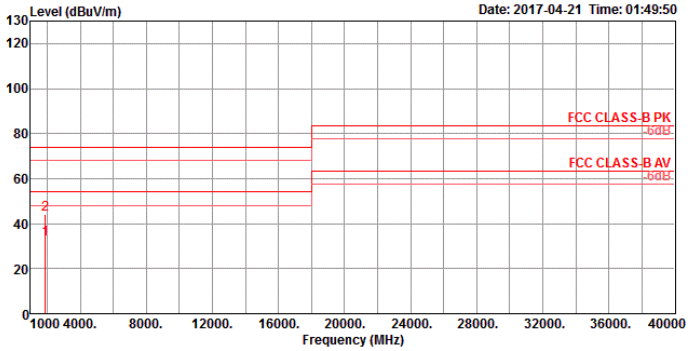
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9835	5774.9832	5774.9830	5774.9824
110.00	5774.9826	5774.9821	5774.9815	5774.9814
93.50	5774.9825	5774.9823	5774.9816	5774.9811
Max. Deviation (MHz)	0.0175	0.0179	0.0185	0.0189
Max. Deviation (ppm)	3.03	3.10	3.20	3.27
Result	Pass			

Temperature vs. Frequency Stability

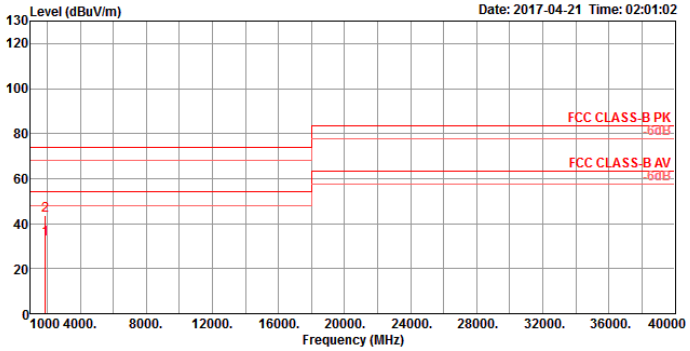
Temperature	Measurement Frequency (MHz)			
(℃)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9846	5774.9839	5774.9832	5774.9829
10	5774.9832	5774.9828	5774.9824	5774.9818
20	5774.9826	5774.9820	5774.9811	5774.9803
30	5774.9230	5774.9228	5774.9223	5774.9219
40	5774.9220	5774.9214	5774.9206	5774.9205
Max. Deviation (MHz)	0.0780	0.0786	0.0794	0.0795
Max. Deviation (ppm)	13.51	13.61	13.75	13.77
Result	Pass			

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1890.11	33.15	54.00	-20.85	37.60	4.68	27.72	36.85	150	256	Average	HORIZONTAL
2	1890.11	44.03	74.00	-29.97	48.48	4.68	27.72	36.85	150	256	Peak	HORIZONTAL

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1890.19	32.98	54.00	-21.02	37.43	4.68	27.72	36.85	150	146	Average	VERTICAL
2	1890.19	43.55	74.00	-30.45	48.00	4.68	27.72	36.85	150	146	Peak	VERTICAL