



FCC RADIO TEST REPORT

FCC ID : MSQ-RTAX8A00
Equipment : Wireless AX1800 Dual Band WiFi 6 Router
Brand Name : ASUS
Model Name : RT-AX55
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan
Manufacturer : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou, Taipei 112, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 04, 2020, and testing was started from Jun. 04, 2020 and completed on Jul. 20, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.2



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11n HT20-BF	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11n HT40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.15-5.25GHz	802.11ac VHT80-BF	80	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11a	20	1TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port		Brand	P/N	Antenna Type	Connector	Gain (dBi)	
	2.4GHz	5GHz					2.4GHz	5GHz
1	2	-	RF link	RF21C05434A	Dipole Ant.	N/A	2	-
2	1	-	RF link	RF21C05435A	Dipole Ant.	N/A	2	-
3	-	2	RF link	RF21C05742A	Dipole Ant.	I-PEX	-	2
4	-	1	RF link	RF21C05436A	Dipole Ant.	I-PEX	-	2

Note: The above information was declared by manufacturer.

For 2.4GHz function:
For IEEE 802.11b/g (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For IEEE 802.11n/ax (2TX/2RX):

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

Pot 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:
For IEEE 802.11a (1TX/1RX):

Only Port 2 can be used as transmitting/receiving antenna.

For IEEE 802.11n/ac/ax (2TX/2RX):

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

Pot 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

<Non-beamforming mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.958	0.19	2.066m	1k

<beamforming mode>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20-BF	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40-BF	0.962	0.17	781.25u	3k
802.11ax HEW80-BF	0.929	0.32	413.75u	3k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	<input type="checkbox"/>	Outdoor P2M	<input checked="" type="checkbox"/>	Indoor P2M
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/>	Client
Test Software Version	accessMTTool (v3.1.0.6)			

Note: The above information was declared by manufacturer.

1.1.5 EUT Type

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

EUT	DC jack port	Use adapter
EUT 1	Small	Adapter 1 and Adapter 2
EUT 2	Big	Adapter 3



1.2 Applicable Standards

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

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

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

- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH02-CB	Lance Wu	24.6-25.7°C / 59-62%	Jul. 07, 2020~ Jul. 15, 2020
Radiated <Below 1GHz>	03CH05-CB	Stim Sung	26.9-29 °C / 56-59%	Jun. 04, 2020~ Jul. 20, 2020
Radiated <Above 1GHz: Non-beamforming mode>	03CH06-CB	Stim Sung	25.4-25.9 °C / 53-57%	Jun. 04, 2020~ Jul. 20, 2020
Radiated <Above 1GHz: beamforming mode>	03CH04-CB 03CH06-CB	Stim Sung	25.6-26.3 °C / 59-60% 25.4-26.6 °C / 57-60%	Jun. 04, 2020~ Jul. 20, 2020
AC Conduction	CO01-CB	Max Lin	22~23°C / 61~62%	Jul. 20, 2020

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.6 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.39%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	84
5200MHz	97
5240MHz	99
5745MHz	119
5785MHz	120
5825MHz	120

<beamforming mode>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	79
5200MHz	92
5240MHz	98
5745MHz	105
5785MHz	105
5825MHz	105
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	74
5230MHz	91
5755MHz	103
5795MHz	105
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	74
5775MHz	90

Note:

- ♦ There are two modes of EUT, one is beamforming mode, and the other is non-beamforming mode for n/ax in 2.4GHz and n/ac/ax in 5GHz. After evaluating, beamforming mode had been evaluated to be the worst case, so it was selected to record in this test report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	2.4GHz_AP Router Mode_EUT 1 with Adapter 1
2	2.4GHz_AP Router Mode_EUT 1 with Adapter 2
3	2.4GHz_AP Router Mode_EUT 2 with Adapter 3
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	5GHz_AP Router Mode_EUT 2 with Adapter 3
For operating mode 3 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 Unwanted Emissions
Test Condition	Conducted measurement at transmit chains
1	EUT 2

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	2.4GHz_AP Router Mode_EUT 1 with Adapter 1
2	2.4GHz_AP Router Mode_EUT 1 with Adapter 2
3	2.4GHz_AP Router Mode_EUT 2 with Adapter 3
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	5GHz_AP Router Mode_EUT 2 with Adapter 3
Operating Mode > 1GHz	CTX
1	EUT 2



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz (EUT 2)
Refer to Sporton Test Report No.: FA041012 for Co-location RF Exposure Evaluation.	

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

2.3 EUT Operation during Test

<Non-beamforming mode>

The EUT was programmed to be in continuously transmitting mode.

<beamforming mode>

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

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

The program was executed as follows:

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

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	DELTA	ADP-24EW B	Input: 100-240V~, 0.9A 50-60Hz Output: 12V, 2A
Adapter 2	PI	AD2055320	Input: 100-240V~, 50/60Hz 0.6A Output: 12V, 2.0A
Equipment Name	Brand Holder	Model Name	Rating
Adapter 3	SHENZHEN GONGJIN ELECTRONICS CO.,LTD.	S12A12-120A100-CJ	Input: 100-240V~, 50/60Hz 0.5A Output: 12V, 1A
Other			
RJ 45 cable*1: Non-Shielded, 1.5m			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A

For Radiated (above 1GHz):

<Non-beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A

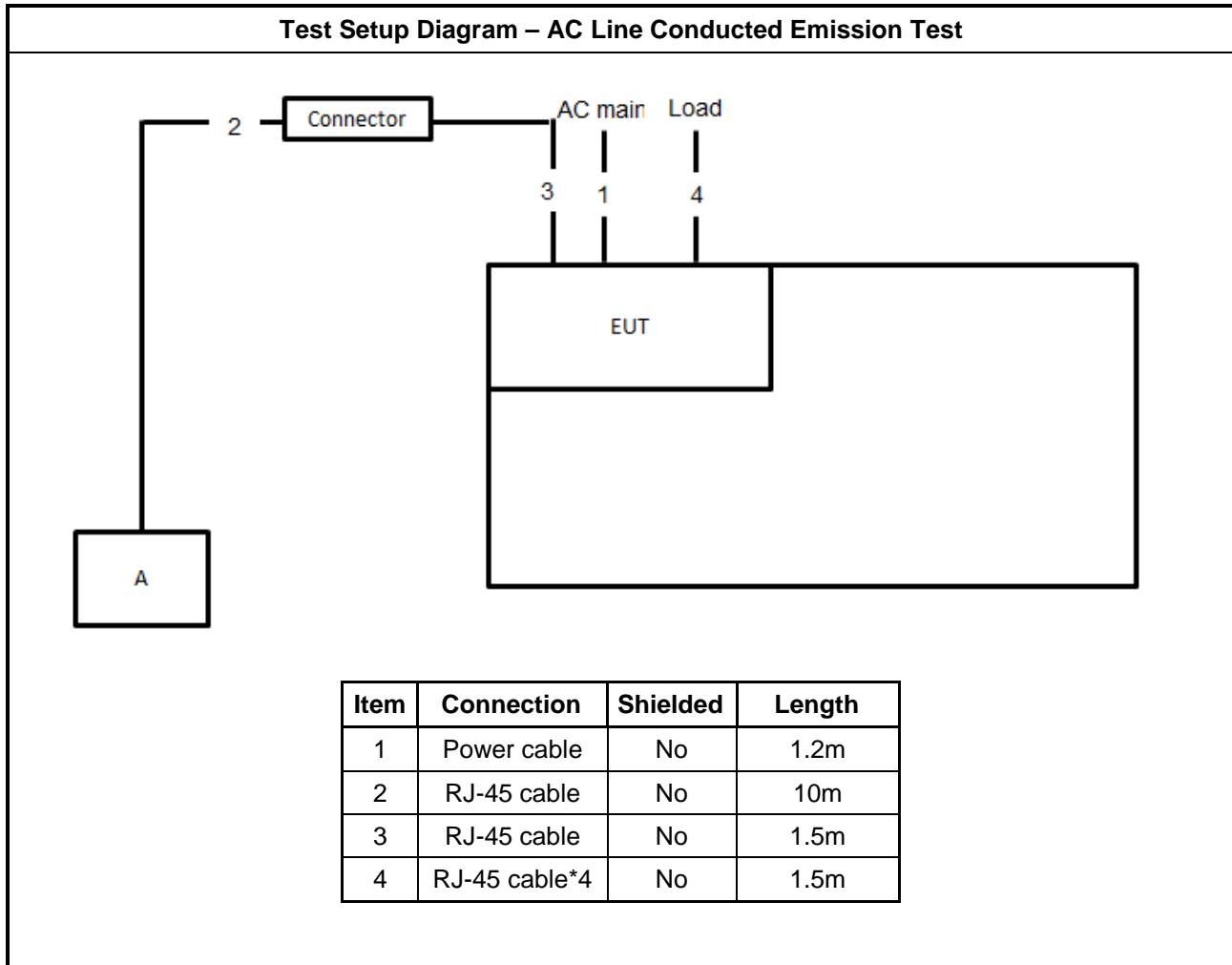
<beamforming mode>

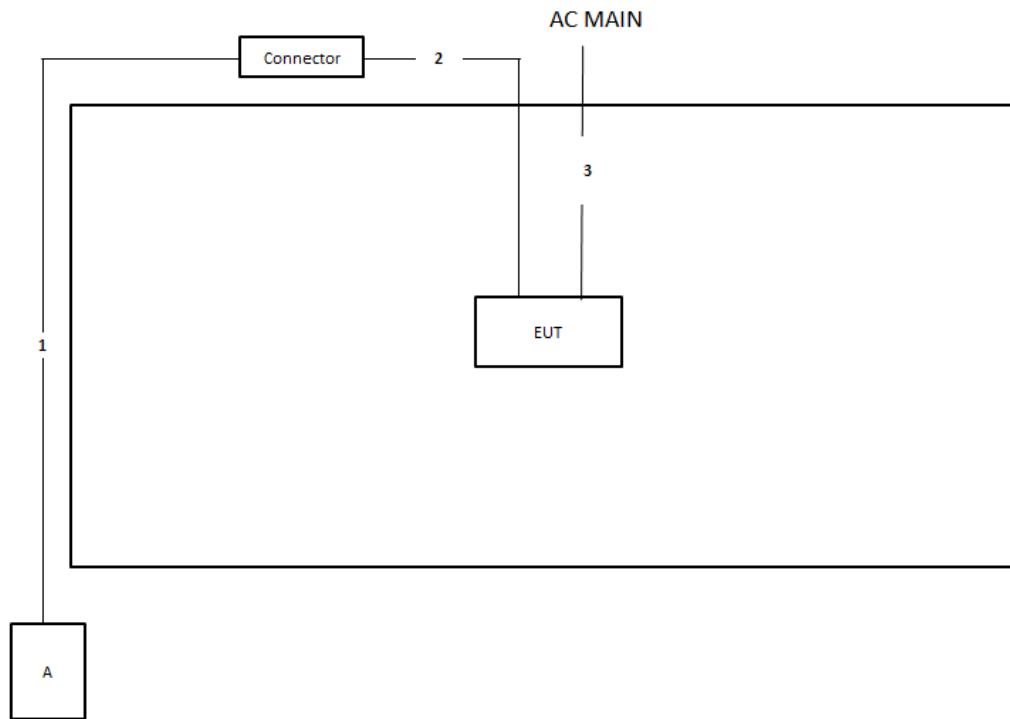
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A
B	WLAN module	Intel	AX200NGW	PD9AX200NG

For RF Conducted:

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

2.6 Test Setup Diagram

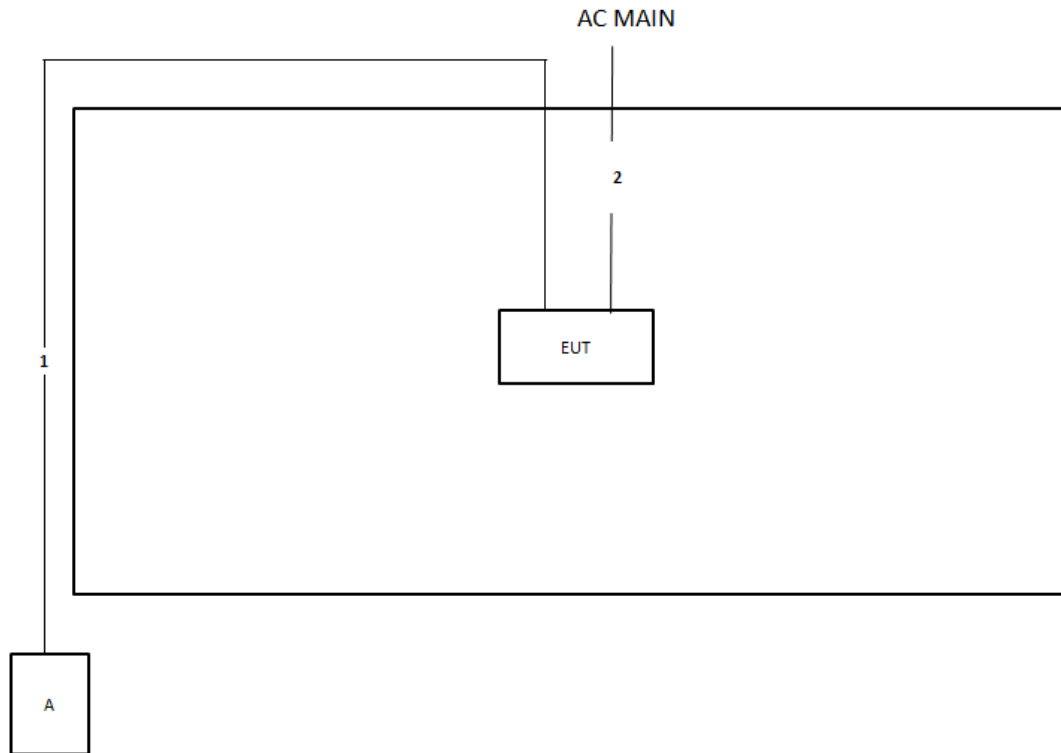


Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.2m

Test Setup Diagram - Radiated Test > 1GHz

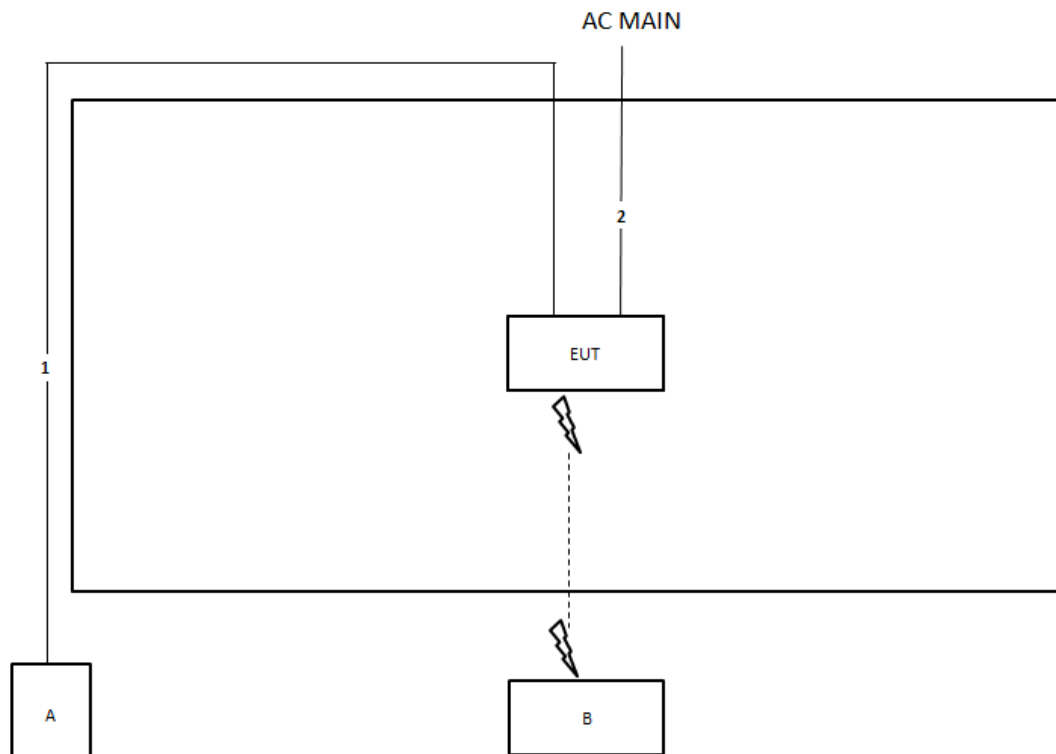
<Non-beamforming mode>



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.2m

Test Setup Diagram - Radiated Test > 1GHz

<beamforming mode>



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.2m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

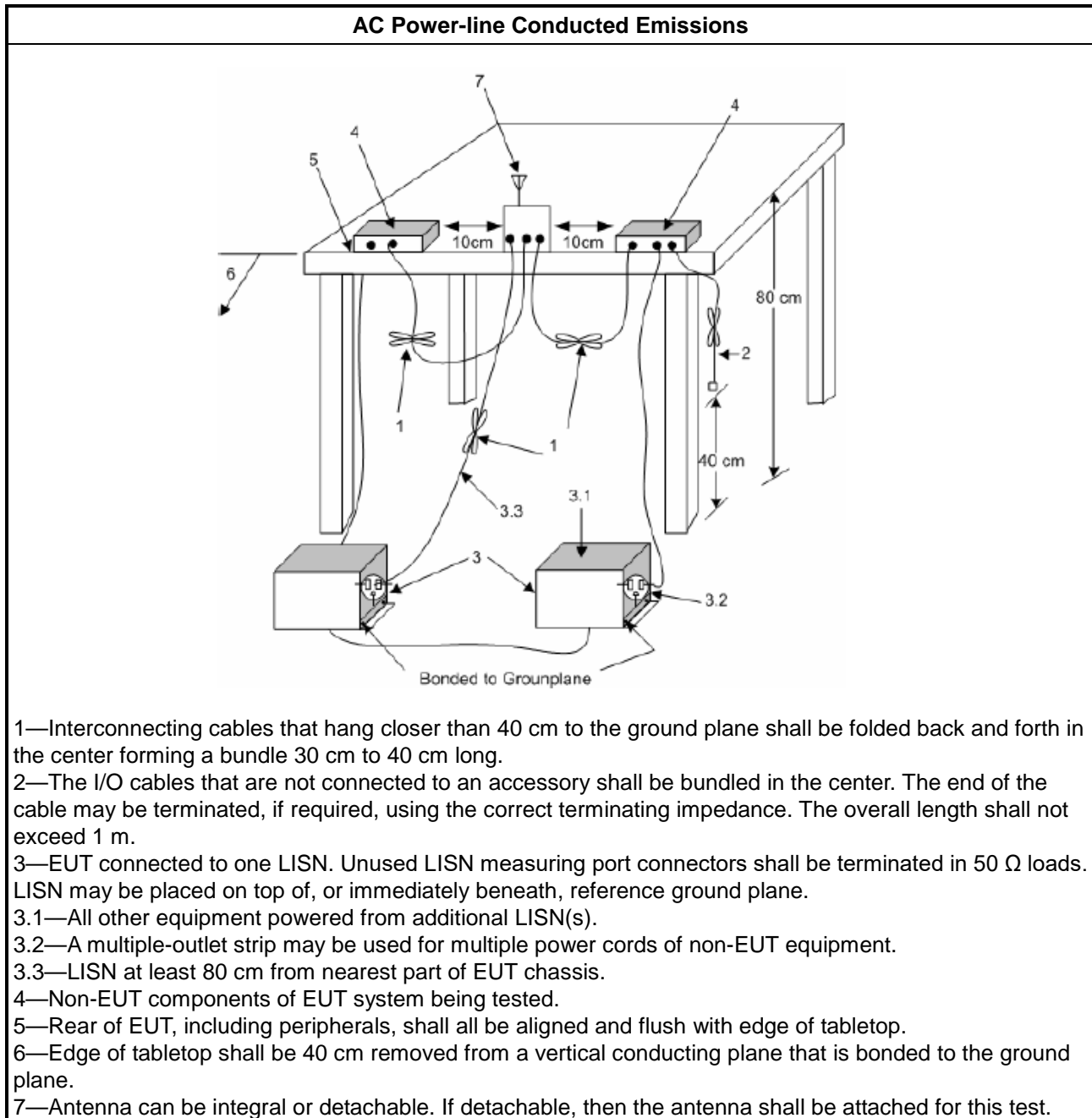
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

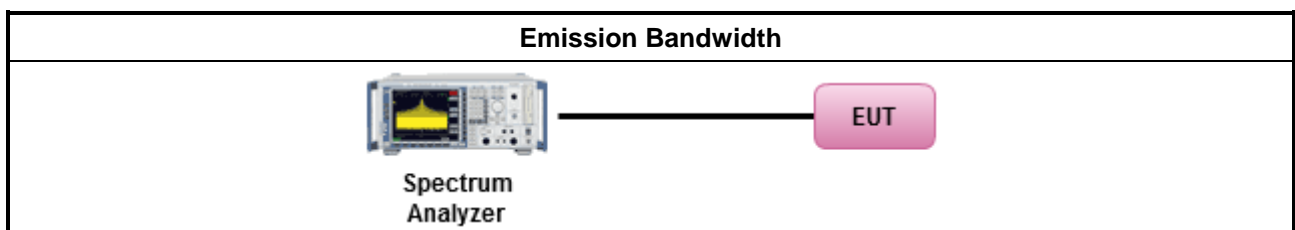
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm]Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none">Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

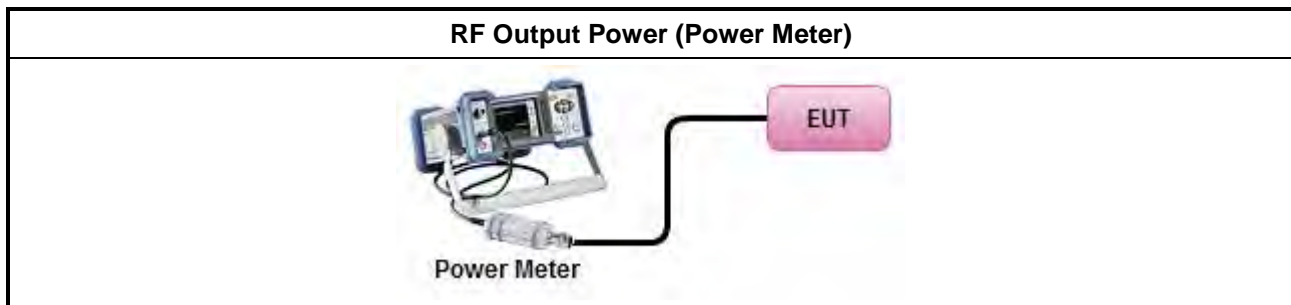
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
	Average over on/off periods with duty factor
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
	<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none">Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$.Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none">Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
	<ul style="list-style-type: none">e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716(\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22(\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none">Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
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.	

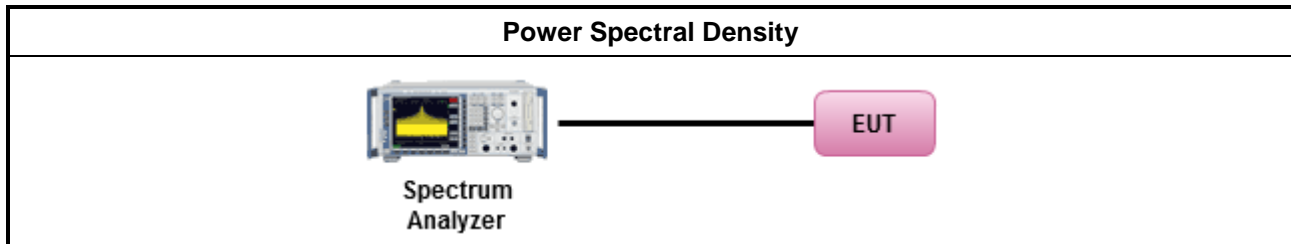
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input type="checkbox"/> Refer as FCC KDB 789033, 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]	
<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: 	
<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	
<ul style="list-style-type: none"> If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

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

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



linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

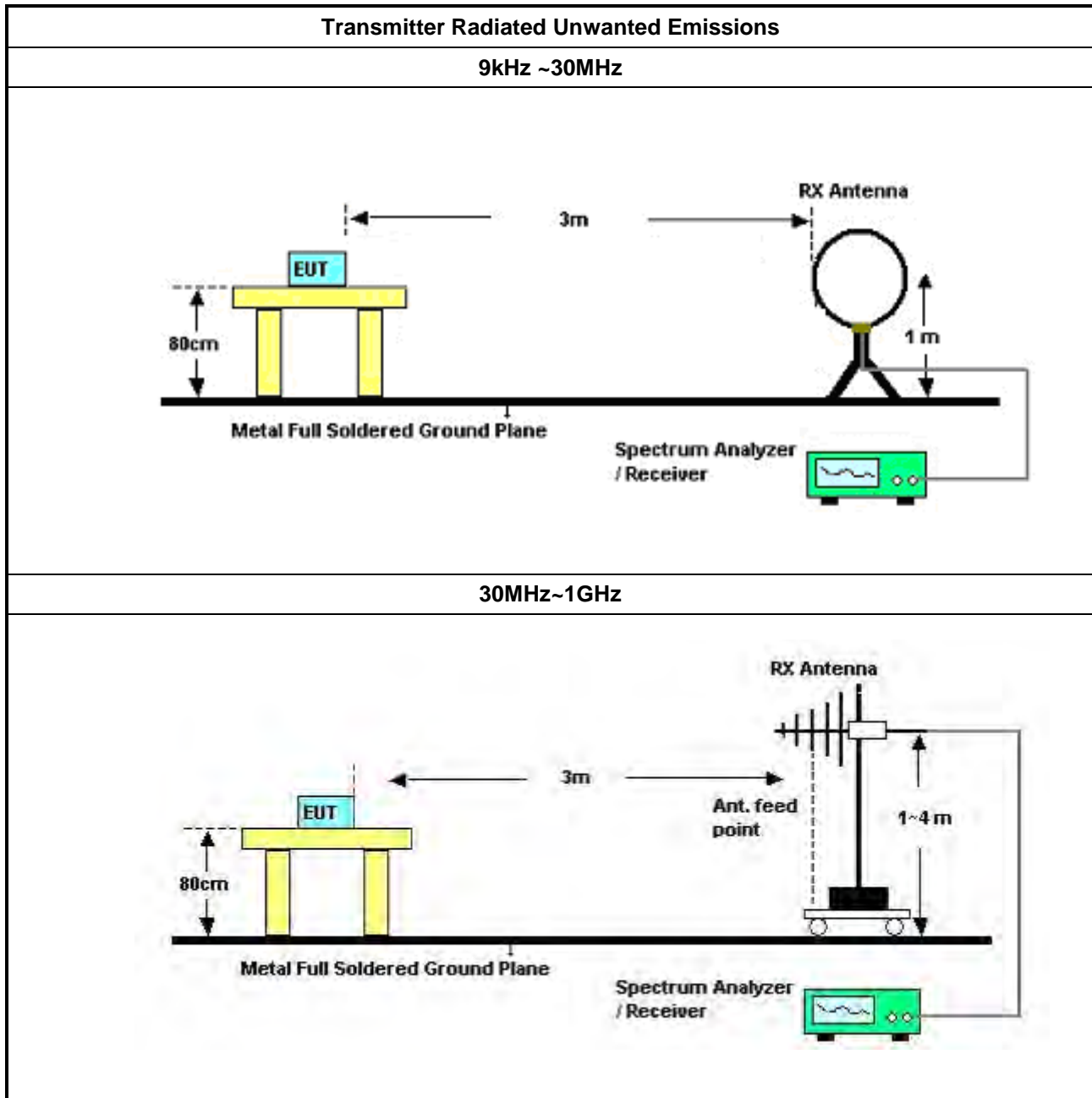
3.5.2 Measuring Instruments

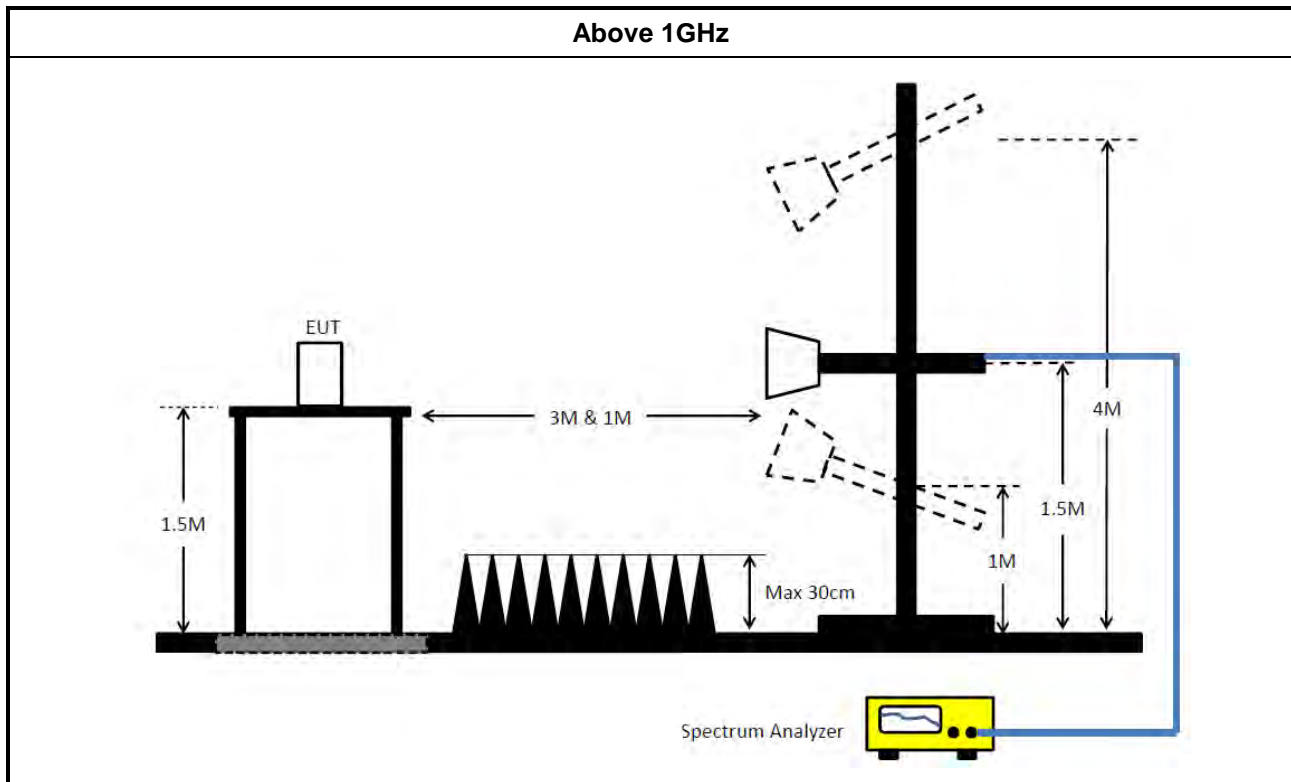
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none">Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
<ul style="list-style-type: none">The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].	
<ul style="list-style-type: none">For the transmitter unwanted emissions shall be measured using following options below:	
	<ul style="list-style-type: none">Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none">Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
<ul style="list-style-type: none">For radiated measurement.	
	<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<ul style="list-style-type: none">The any unwanted emissions level shall not exceed the fundamental emission level.	
<ul style="list-style-type: none">All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor (if applicable) = Level.

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 22, 2019	Oct. 21, 2020	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 11, 2020	Mar. 10, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 14, 2020	Jul. 13, 2021	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH04-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Feb. 01, 2020	Jan. 31, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Jul. 07, 2020	Jul. 06, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+22	1GHz - 18GHz	Feb. 01, 2020	Jan. 31, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 11, 2020	Jun. 10, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 07, 2020	May 06, 2021	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 19, 2020	Jun. 18, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH02-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	May 12, 2020	May 11, 2021	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)

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



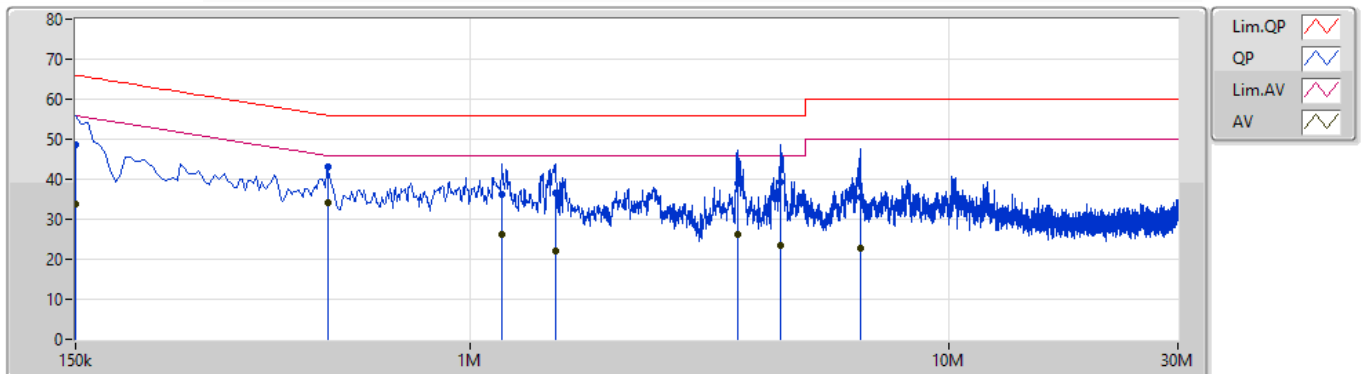
AC Power-line Conducted Emissions

Appendix A

Summary

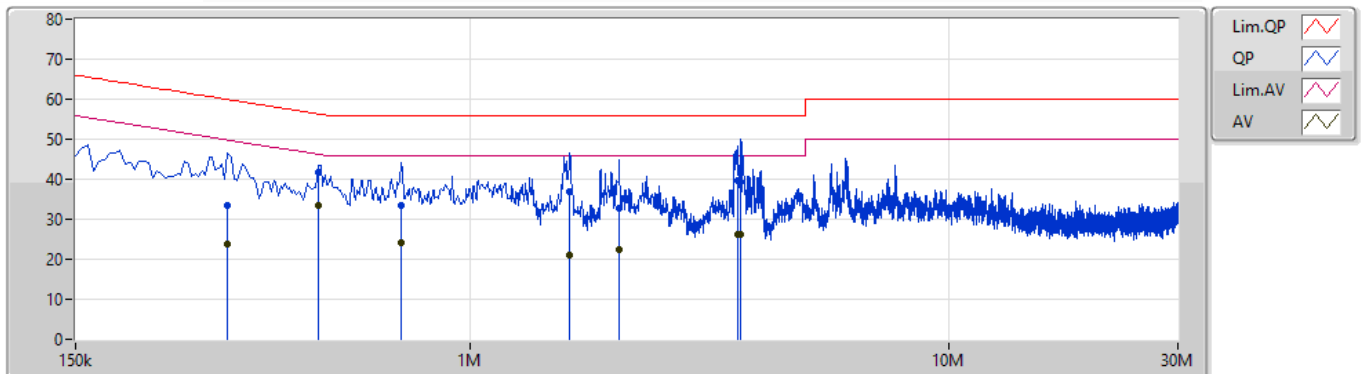
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	505.5k	34.25	46.00	-11.75	Line

20/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	150k	48.50	66.00	-17.50	9.87	Line	-	38.63	0.05	0.03	9.79			
AV	150k	33.64	56.00	-22.36	9.87	Line	-	23.77	0.05	0.03	9.79			
QP	505.5k	43.03	56.00	-12.97	9.88	Line	-	33.15	0.04	0.03	9.81			
AV	505.5k	34.25	46.00	-11.75	9.88	Line	"Worst"	24.37	0.04	0.03	9.81			
QP	1.167M	36.20	56.00	-19.80	9.92	Line	-	26.28	0.05	0.05	9.82			
AV	1.167M	26.34	46.00	-19.66	9.92	Line	-	16.42	0.05	0.05	9.82			
QP	1.505M	36.53	56.00	-19.47	9.95	Line	-	26.58	0.06	0.06	9.83			
AV	1.505M	21.99	46.00	-24.01	9.95	Line	-	12.04	0.06	0.06	9.83			
QP	3.606M	38.99	56.00	-17.01	10.02	Line	-	28.97	0.09	0.12	9.81			
AV	3.606M	26.23	46.00	-19.77	10.02	Line	-	16.21	0.09	0.12	9.81			
QP	4.443M	39.30	56.00	-16.70	10.05	Line	-	29.25	0.10	0.13	9.82			
AV	4.443M	23.39	46.00	-22.61	10.05	Line	-	13.34	0.10	0.13	9.82			
QP	6.518M	35.50	60.00	-24.50	10.14	Line	-	25.36	0.13	0.14	9.87			
AV	6.518M	22.91	50.00	-27.09	10.14	Line	-	12.77	0.13	0.14	9.87			

20/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	AF (dB)	CL (dB)	AT (dB)			
QP	312k	33.58	59.92	-26.34	9.87	Neutral	-	23.71	0.04	0.03	9.80			
AV	312k	23.64	49.92	-26.28	9.87	Neutral	-	13.77	0.04	0.03	9.80			
QP	483k	41.58	56.29	-14.71	9.88	Neutral	-	31.70	0.04	0.03	9.81			
AV	483k	33.46	46.29	-12.83	9.88	Neutral	"Worst"	23.58	0.04	0.03	9.81			
QP	717k	33.32	56.00	-22.68	9.91	Neutral	-	23.41	0.05	0.04	9.82			
AV	717k	24.27	46.00	-21.73	9.91	Neutral	-	14.36	0.05	0.04	9.82			
QP	1.613M	36.82	56.00	-19.18	9.96	Neutral	-	26.86	0.07	0.06	9.83			
AV	1.613M	20.96	46.00	-25.04	9.96	Neutral	-	11.00	0.07	0.06	9.83			
QP	2.045M	32.59	56.00	-23.41	9.97	Neutral	-	22.62	0.07	0.07	9.83			
AV	2.045M	22.37	46.00	-23.63	9.97	Neutral	-	12.40	0.07	0.07	9.83			
QP	3.606M	39.62	56.00	-16.38	10.02	Neutral	-	29.60	0.09	0.12	9.81			
AV	3.606M	26.20	46.00	-19.80	10.02	Neutral	-	16.18	0.09	0.12	9.81			
QP	3.678M	39.22	56.00	-16.78	10.02	Neutral	-	29.20	0.09	0.12	9.81			
AV	3.678M	26.15	46.00	-19.85	10.02	Neutral	-	16.13	0.09	0.12	9.81			

<Non-beamforming mode>
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	39.03M	19.79M	19M8D1D	21.42M	16.822M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.53M	45.127M	45M1D1D	16.29M	34.453M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5180MHz	Pass	Inf			21.42M	16.822M
5200MHz	Pass	Inf			35.85M	17.571M
5240MHz	Pass	Inf			39.03M	19.79M
5745MHz	Pass	500k			16.29M	34.453M
5785MHz	Pass	500k			16.47M	45.127M
5825MHz	Pass	500k			16.53M	41.799M

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

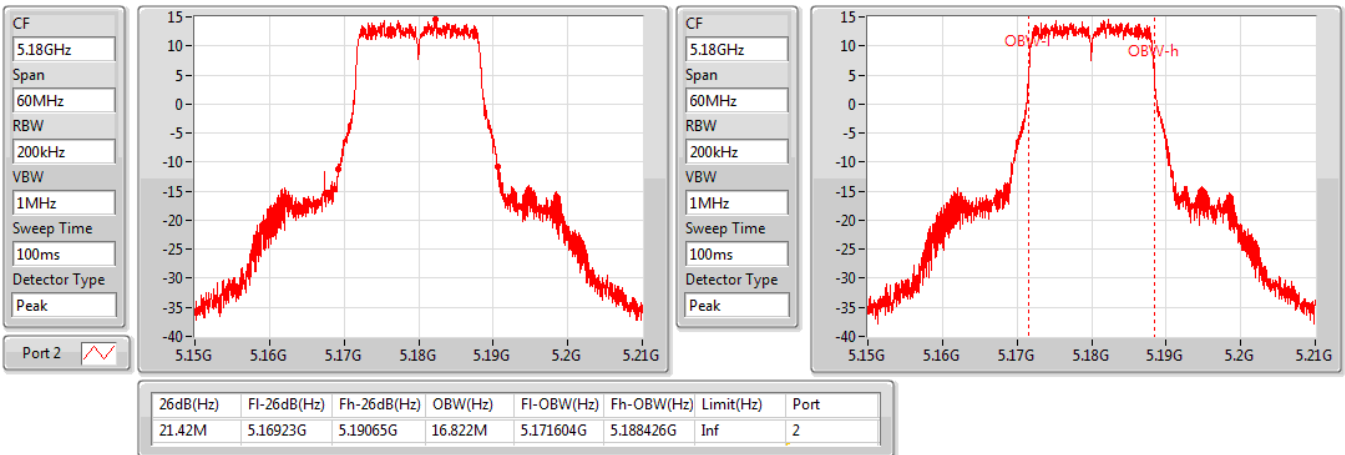
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

07/07/2020

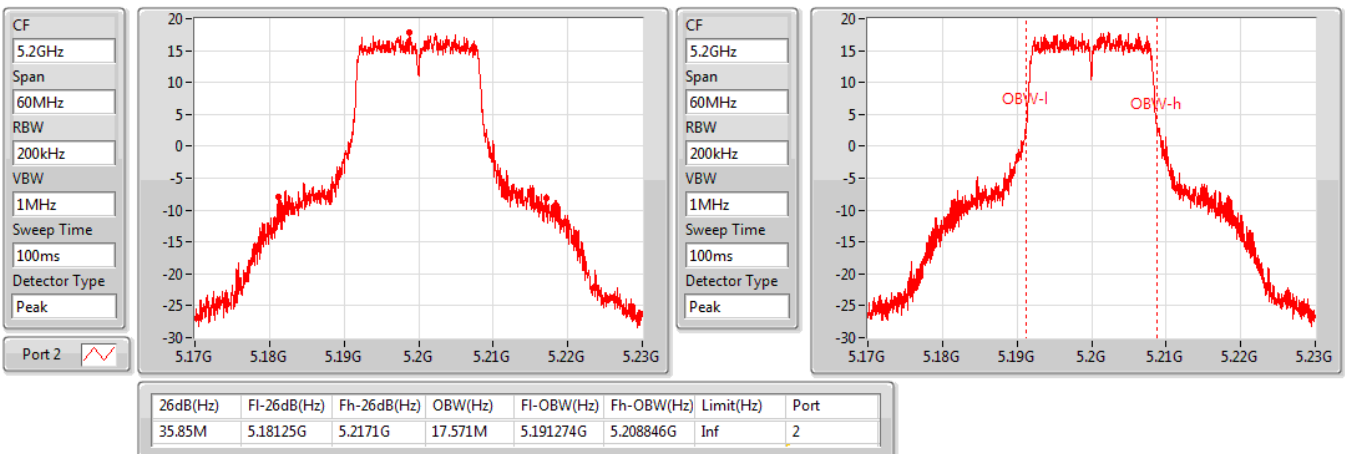


802.11a_Nss1,(6Mbps)_1TX

EBW

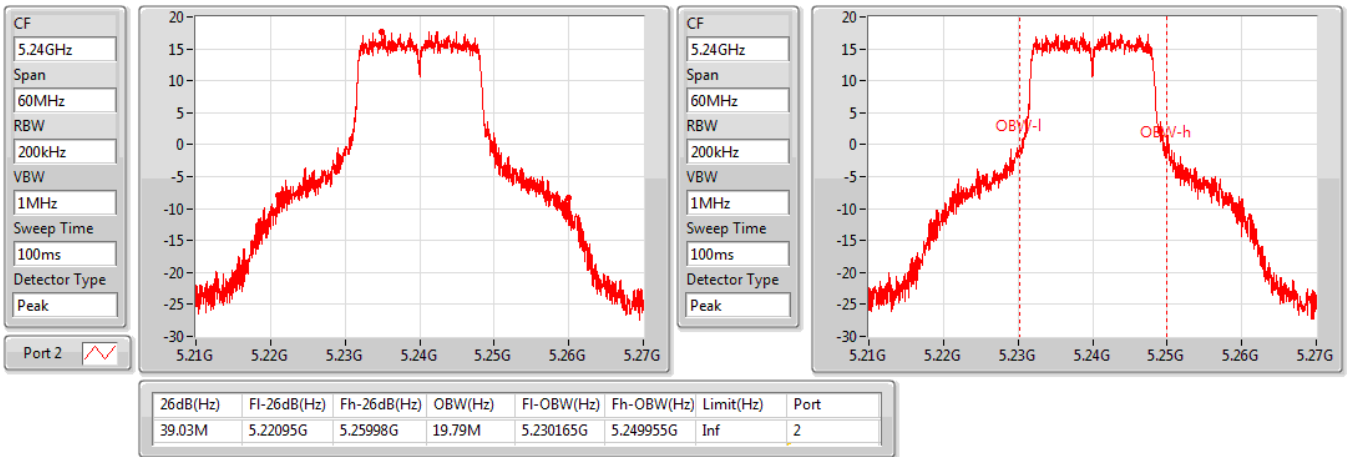
5200MHz

07/07/2020

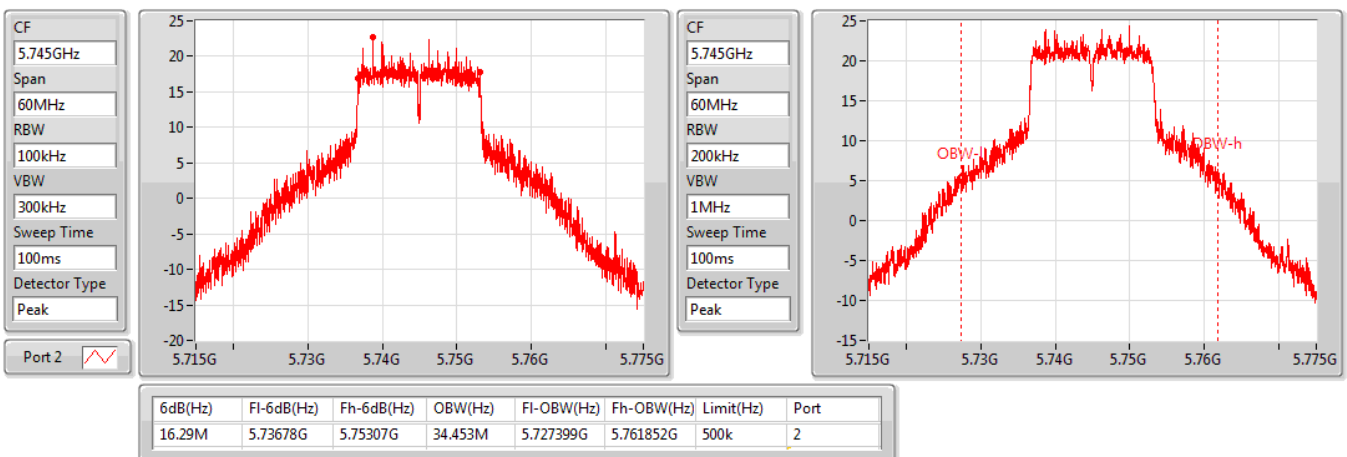


802.11a_Nss1,(6Mbps)_1TX
EBW
5240MHz

07/07/2020

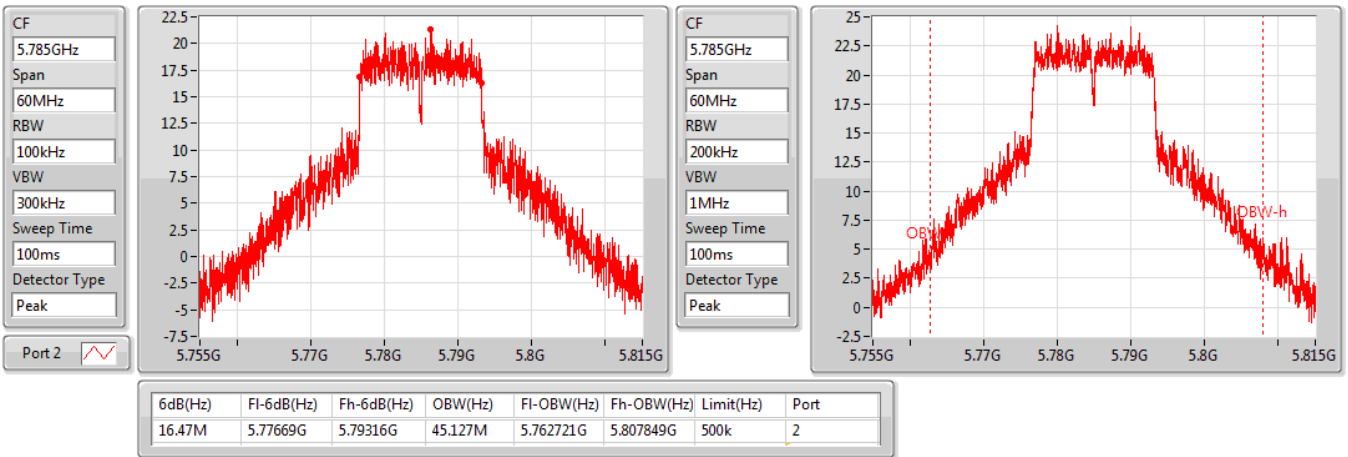

802.11a_Nss1,(6Mbps)_1TX
EBW
5745MHz

07/07/2020

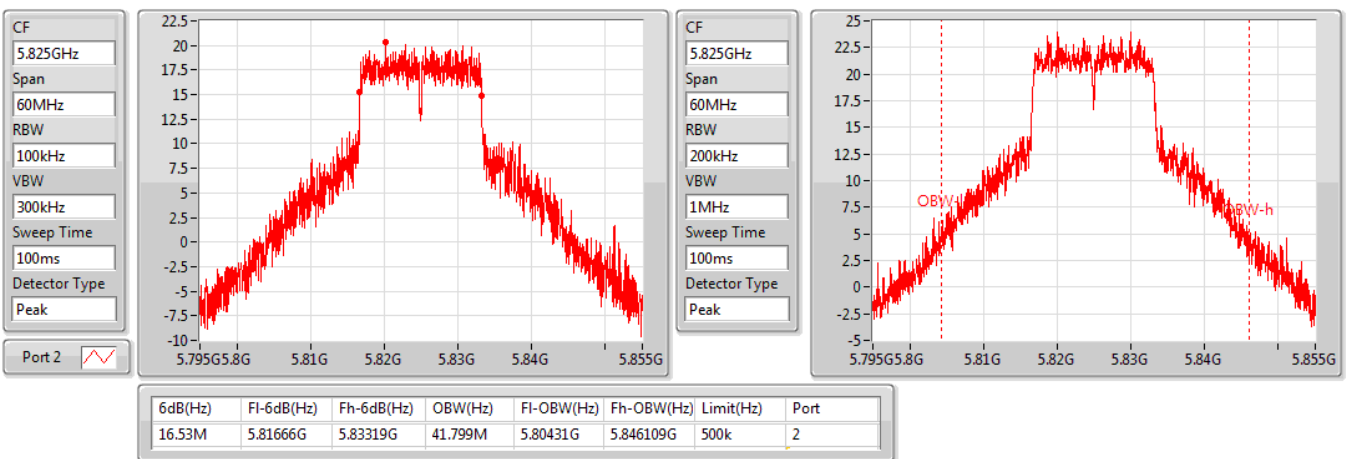


802.11a_Nss1,(6Mbps)_1TX
EBW
5785MHz

07/07/2020


802.11a_Nss1,(6Mbps)_1TX
EBW
5825MHz

07/07/2020



<beamforming mode>
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	40.17M	19.85M	19M8D1D	21.45M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	76.32M	38.321M	38M3D1D	40.02M	37.541M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	81.48M	76.882M	76M9D1D	81.12M	76.882M
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.93M	25.907M	25M9D1D	18.72M	19.73M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.68M	55.952M	56M0D1D	36.96M	38.501M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	77.16M	77.361M	77M4D1D	76.56M	77.121M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

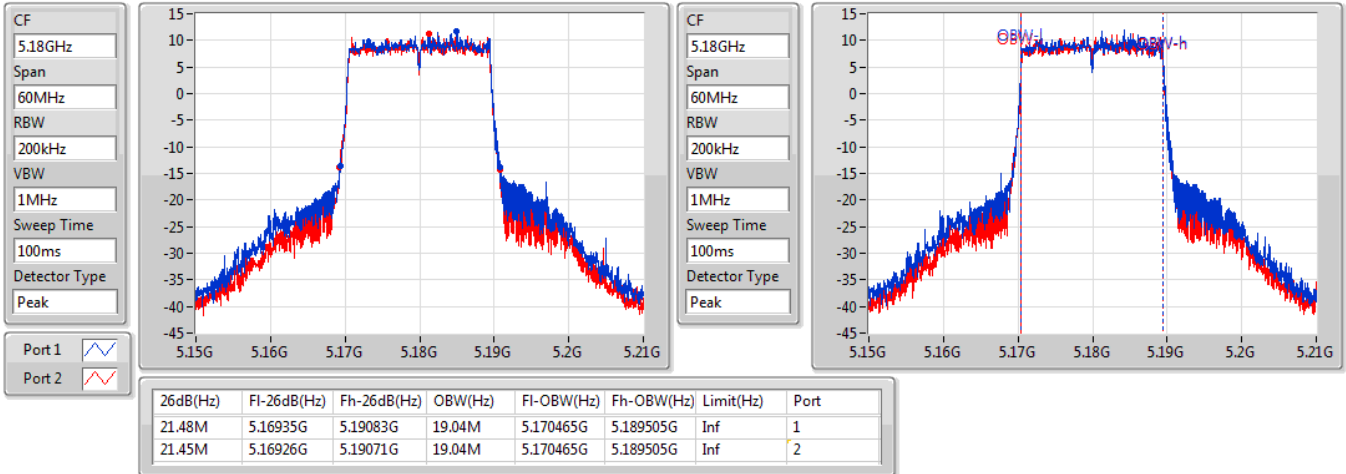
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.48M	19.04M	21.45M	19.04M
5200MHz	Pass	Inf	36.96M	19.31M	30.45M	19.19M
5240MHz	Pass	Inf	40.17M	19.85M	40.11M	19.46M
5745MHz	Pass	500k	18.75M	25.577M	18.93M	20.18M
5785MHz	Pass	500k	18.72M	25.907M	18.93M	19.73M
5825MHz	Pass	500k	18.87M	24.798M	18.9M	19.94M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.02M	37.541M	40.26M	37.541M
5230MHz	Pass	Inf	76.32M	38.321M	68.1M	37.901M
5755MHz	Pass	500k	37.68M	55.952M	37.08M	43.778M
5795MHz	Pass	500k	36.96M	46.957M	37.02M	38.501M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.12M	76.882M	81.48M	76.882M
5775MHz	Pass	500k	77.16M	77.361M	76.56M	77.121M

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

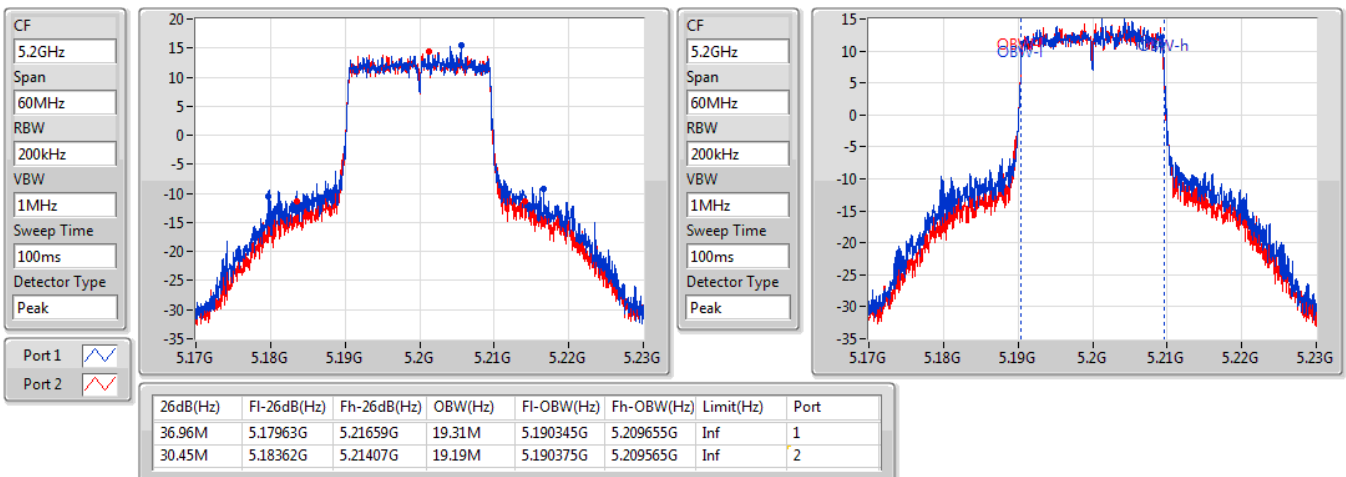
Port X-OBW = Port X 99% occupied bandwidth;

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5180MHz

08/07/2020

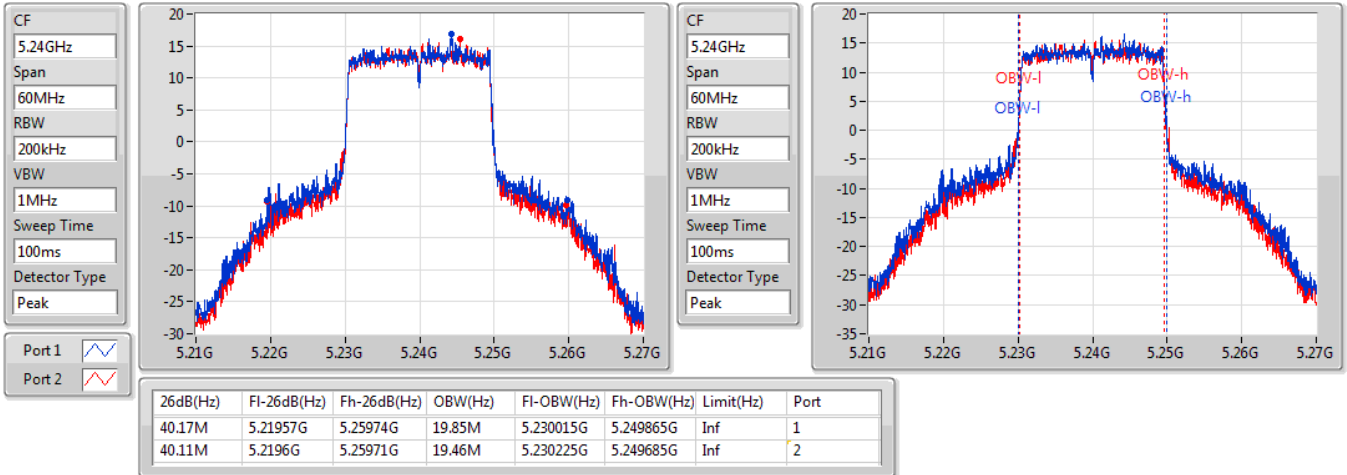

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5200MHz

08/07/2020

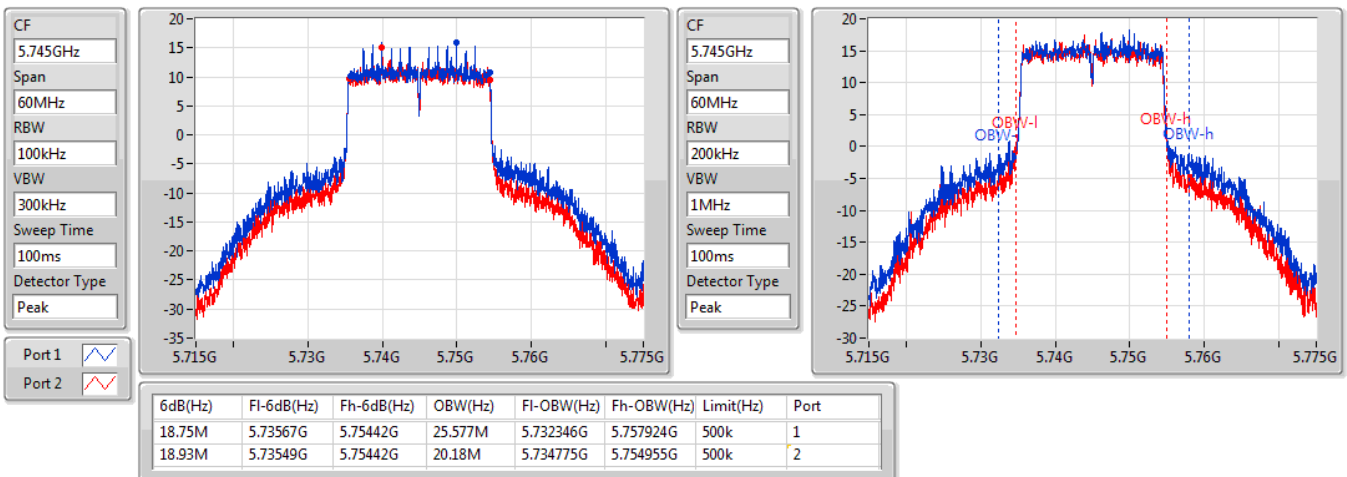


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5240MHz

08/07/2020

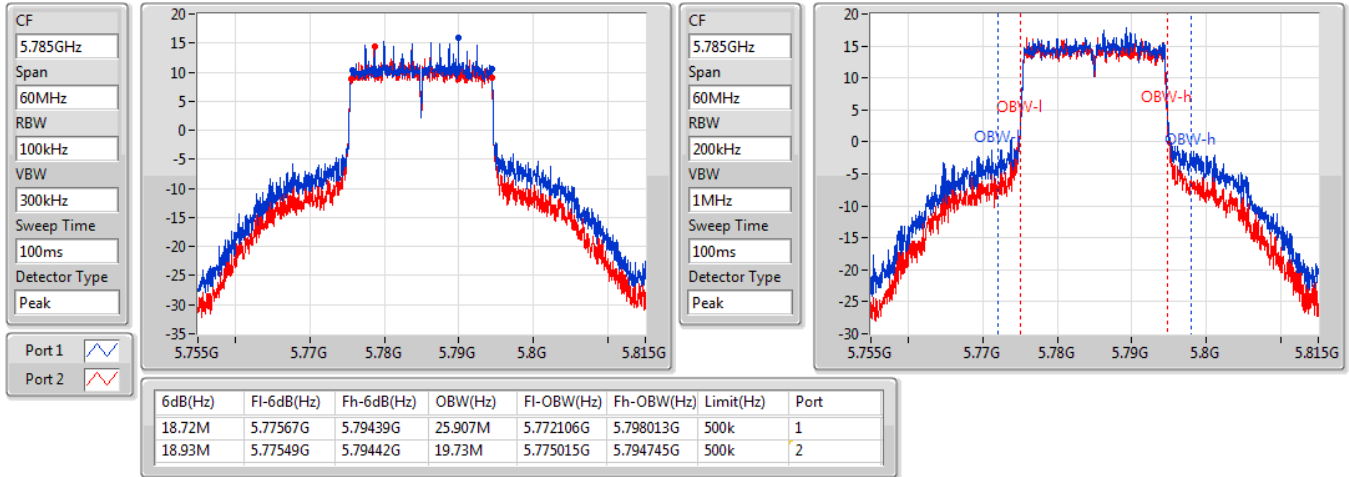

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5745MHz

08/07/2020

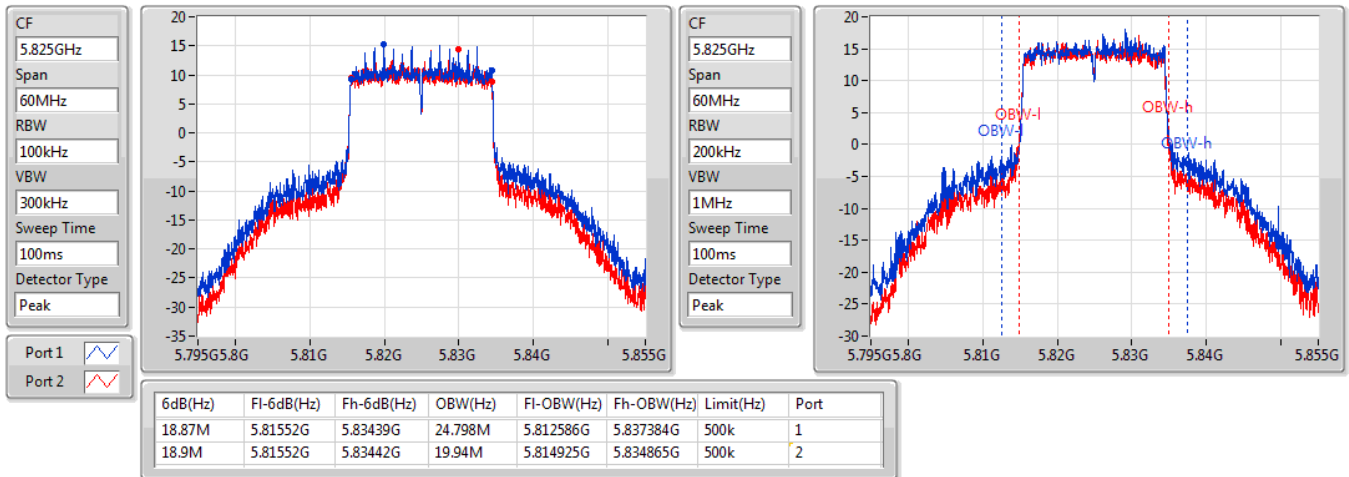


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5785MHz

08/07/2020

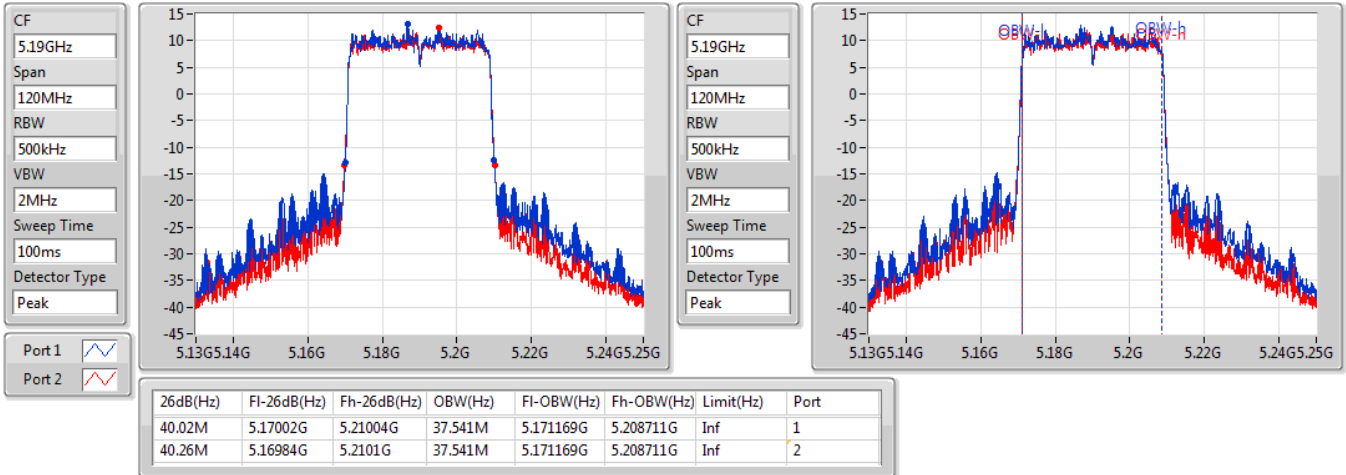

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
5825MHz

08/07/2020

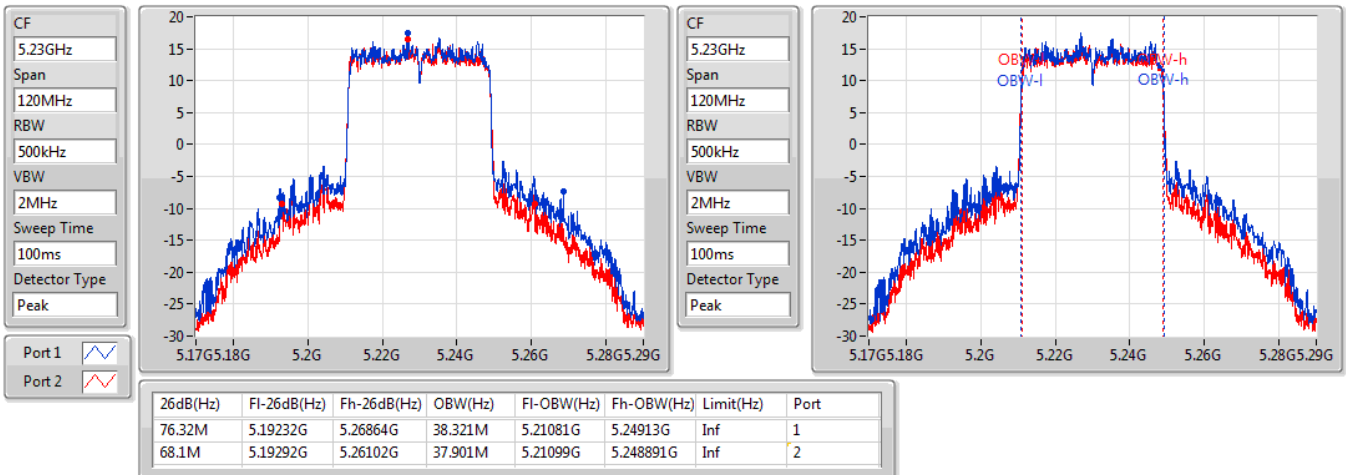


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5190MHz

15/07/2020

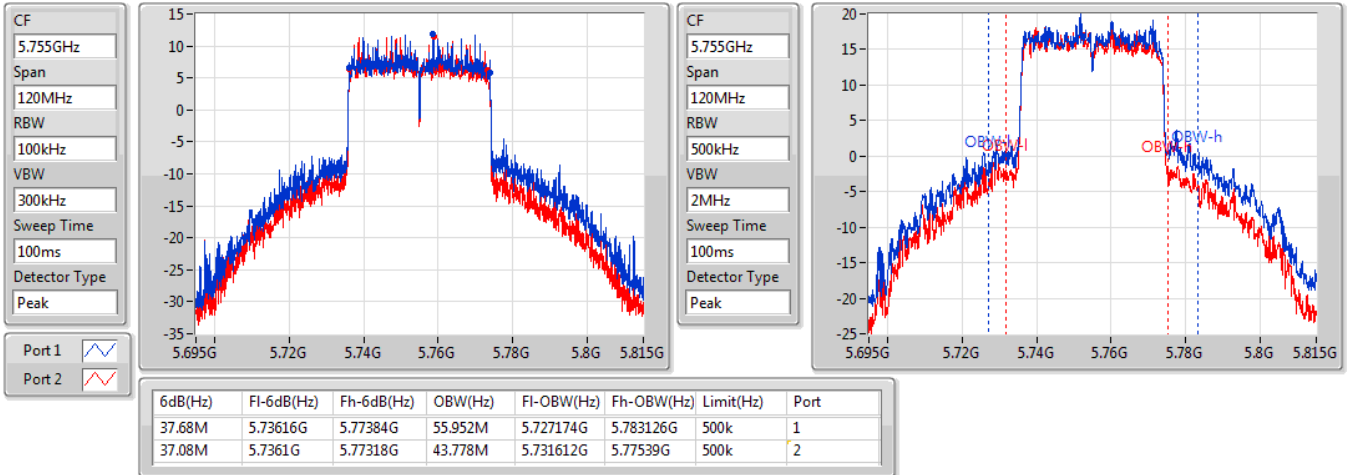

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5230MHz

15/07/2020

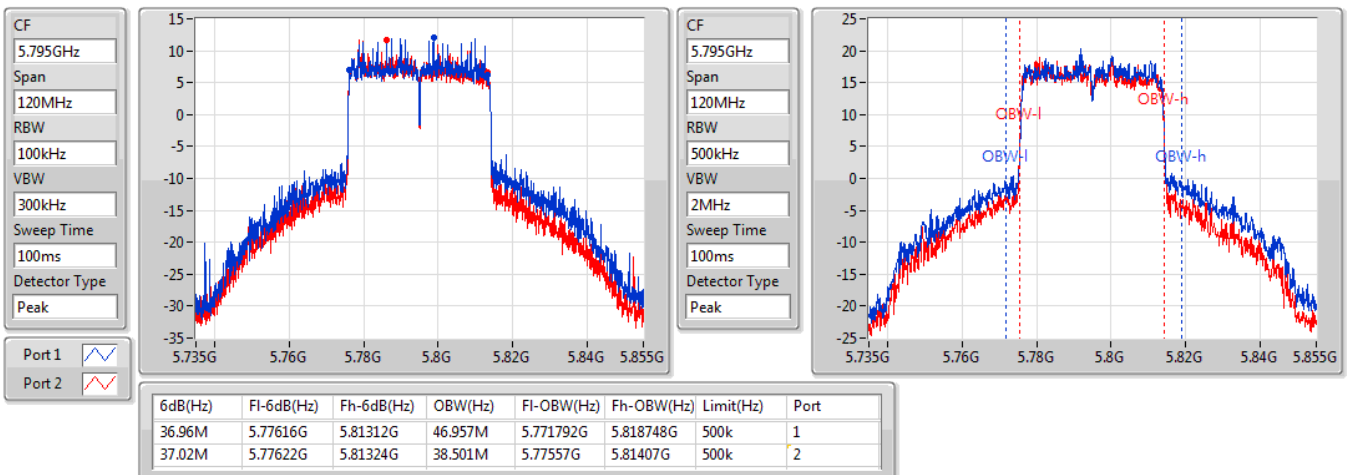


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5755MHz

15/07/2020

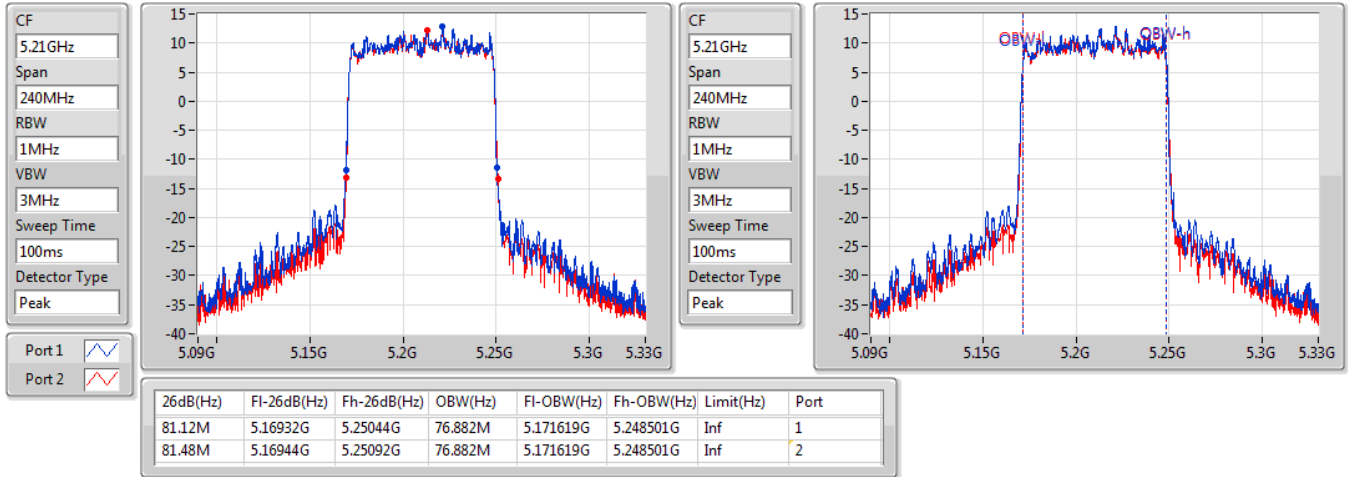

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
5795MHz

08/07/2020

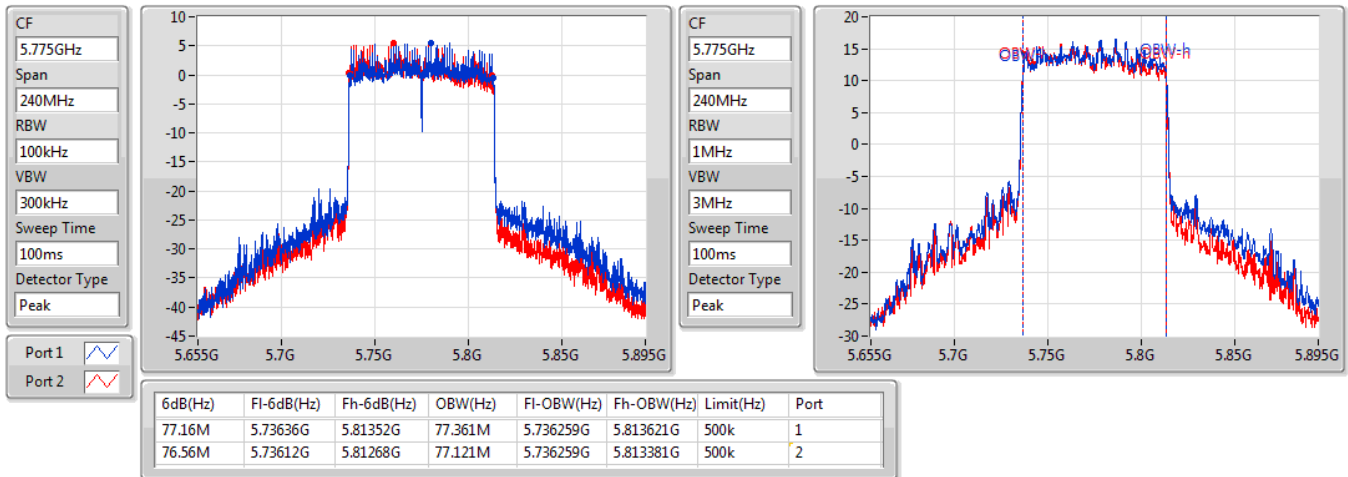


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5210MHz

15/07/2020


802.11ax HEW80-BF_Nss1,(MCS0)_2TX
EBW
5775MHz

15/07/2020



<Non-beamforming mode>**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	25.70	0.37154
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	29.97	0.99312



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5180MHz	Pass	2.00		22.62	22.62	30.00
5200MHz	Pass	2.00		25.42	25.42	30.00
5240MHz	Pass	2.00		25.70	25.70	30.00
5745MHz	Pass	2.00		29.64	29.64	30.00
5785MHz	Pass	2.00		29.89	29.89	30.00
5825MHz	Pass	2.00		29.97	29.97	30.00

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

<beamforming mode>**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	28.52	0.71121
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	27.12	0.51523
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.47	0.17660
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.86	0.96828
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	29.71	0.93541
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	26.26	0.42267

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.01	21.44	21.02	24.25	30.00
5200MHz	Pass	5.01	24.56	24.23	27.41	30.00
5240MHz	Pass	5.01	25.69	25.32	28.52	30.00
5745MHz	Pass	5.01	27.11	26.58	29.86	30.00
5785MHz	Pass	5.01	26.78	26.24	29.53	30.00
5825MHz	Pass	5.01	27.00	26.43	29.73	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.01	19.89	19.54	22.73	30.00
5230MHz	Pass	5.01	24.38	23.82	27.12	30.00
5755MHz	Pass	5.01	26.54	26.07	29.32	30.00
5795MHz	Pass	5.01	26.88	26.51	29.71	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.01	19.52	19.40	22.47	30.00
5775MHz	Pass	5.01	23.34	23.15	26.26	30.00

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

<Non-beamforming mode>**Summary**

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_1TX	15.50
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	18.98

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5180MHz	Pass	2.00		12.40	12.40	17.00
5200MHz	Pass	2.00		15.36	15.36	17.00
5240MHz	Pass	2.00		15.50	15.50	17.00
5745MHz	Pass	2.00		18.46	18.46	30.00
5785MHz	Pass	2.00		18.77	18.77	30.00
5825MHz	Pass	2.00		18.98	18.98	30.00

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

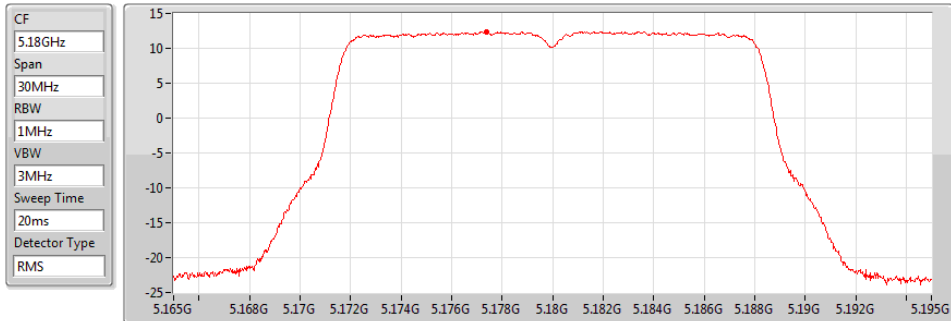
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_1TX

PSD

5180MHz

07/07/2020

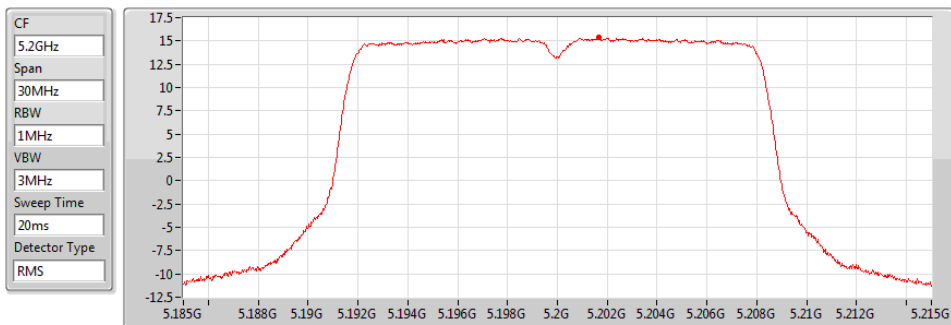


802.11a_Nss1,(6Mbps)_1TX

PSD

5200MHz

07/07/2020

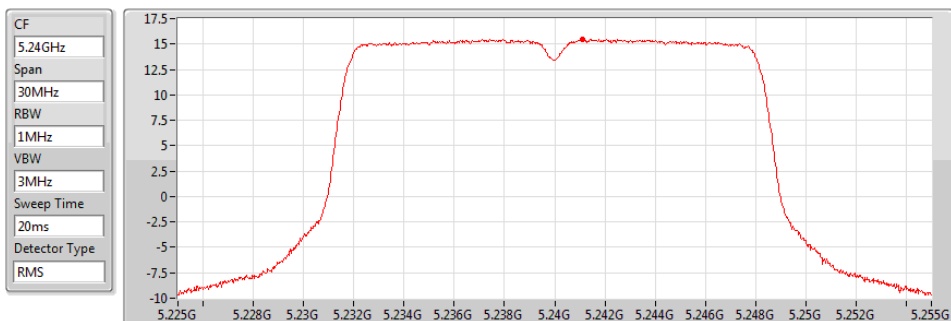


802.11a_Nss1,(6Mbps)_1TX

PSD

5240MHz

07/07/2020

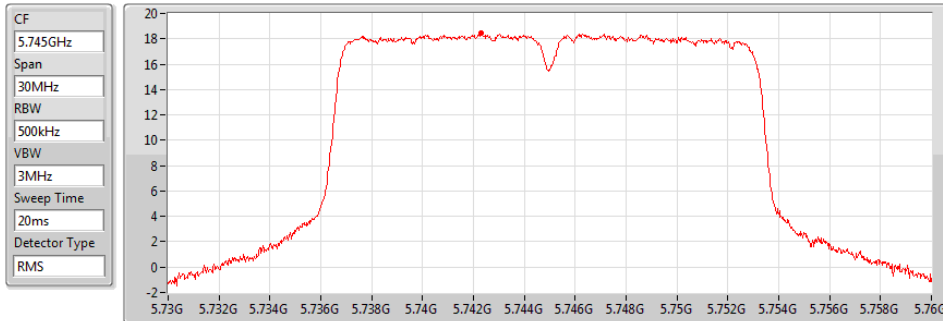


802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

07/07/2020



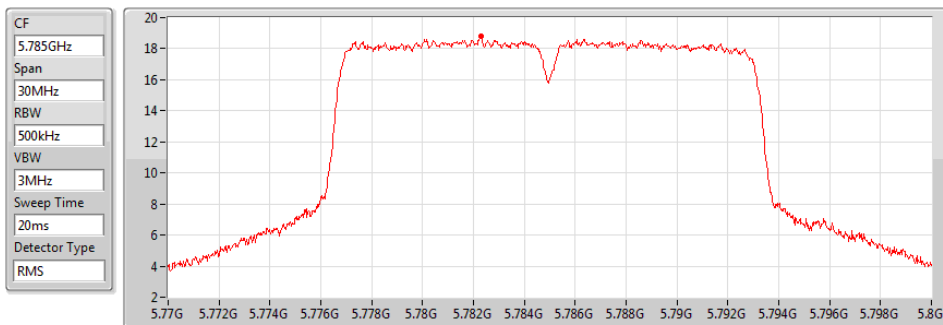
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
18.46	18.46		18.46

802.11a_Nss1,(6Mbps)_1TX

PSD

5785MHz

07/07/2020



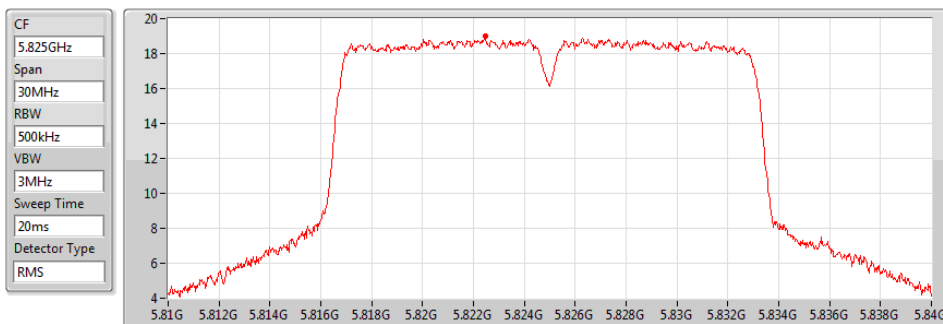
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
18.77	18.77		18.77

802.11a_Nss1,(6Mbps)_1TX

PSD

5825MHz

07/07/2020



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
18.98	18.98		18.98

<beamforming mode>

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	14.64
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	10.54
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	3.21
5.725-5.85GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	14.63
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	11.60
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	5.70

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.01	7.47	7.01	10.22	17.00
5200MHz	Pass	5.01	10.66	10.34	13.43	17.00
5240MHz	Pass	5.01	11.85	11.44	14.64	17.00
5745MHz	Pass	5.01	11.90	11.44	14.63	30.00
5785MHz	Pass	5.01	11.63	11.09	14.29	30.00
5825MHz	Pass	5.01	11.53	11.04	14.26	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.01	3.42	2.84	6.12	17.00
5230MHz	Pass	5.01	7.78	7.27	10.54	17.00
5755MHz	Pass	5.01	8.68	8.13	11.30	30.00
5795MHz	Pass	5.01	8.76	8.62	11.60	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.01	0.41	0.05	3.21	17.00
5775MHz	Pass	5.01	2.77	2.84	5.70	30.00

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

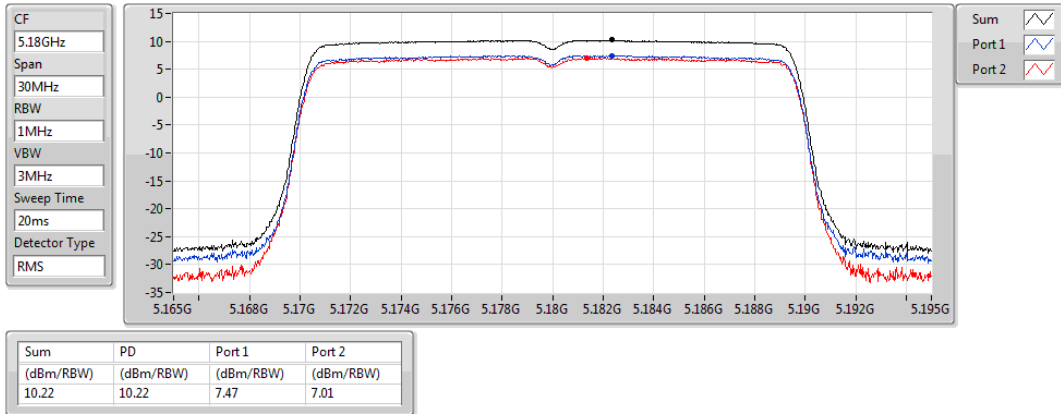
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5180MHz

08/07/2020

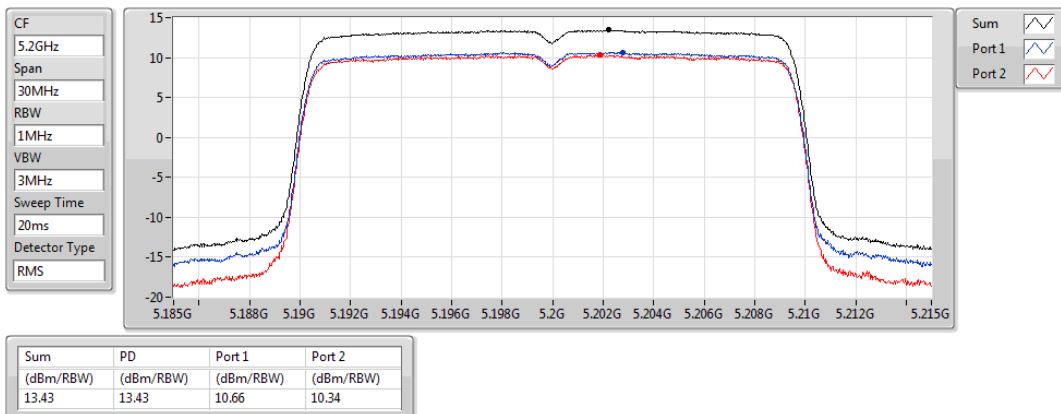


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5200MHz

08/07/2020

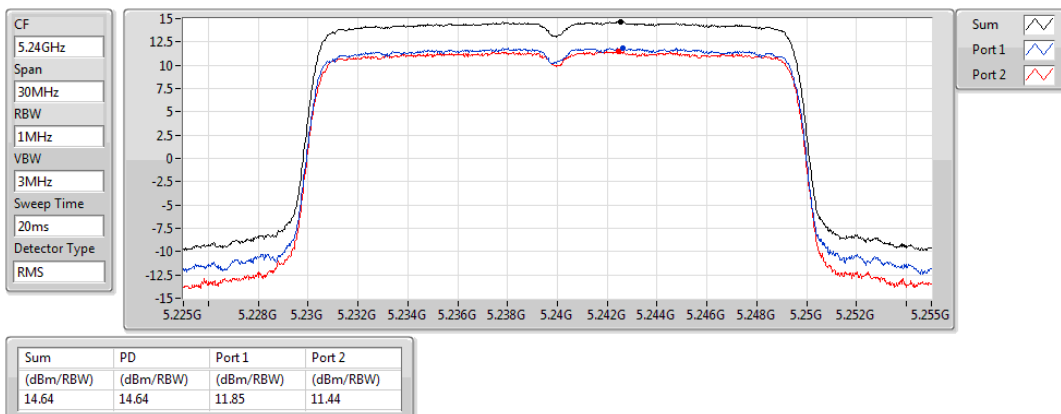


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5240MHz

08/07/2020

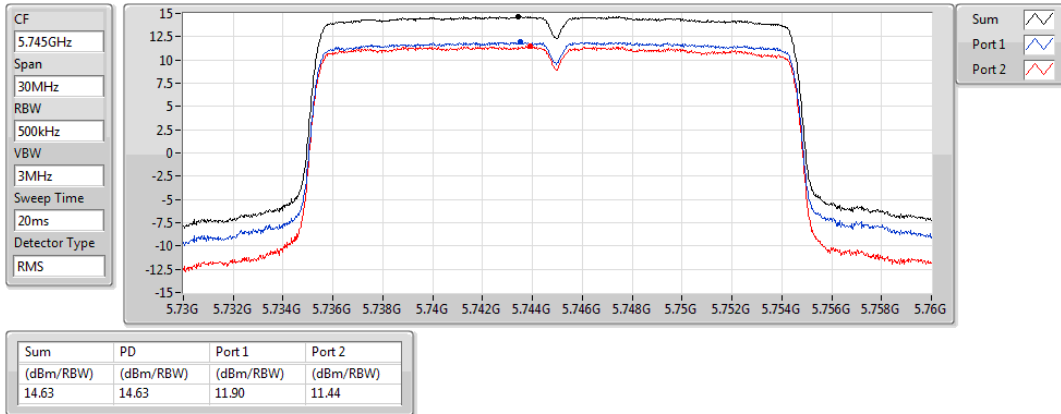


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5745MHz

08/07/2020

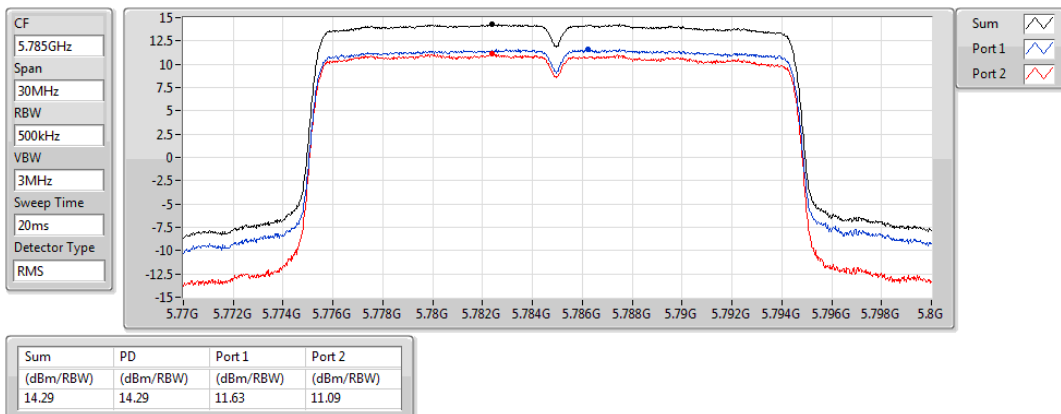


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5785MHz

08/07/2020

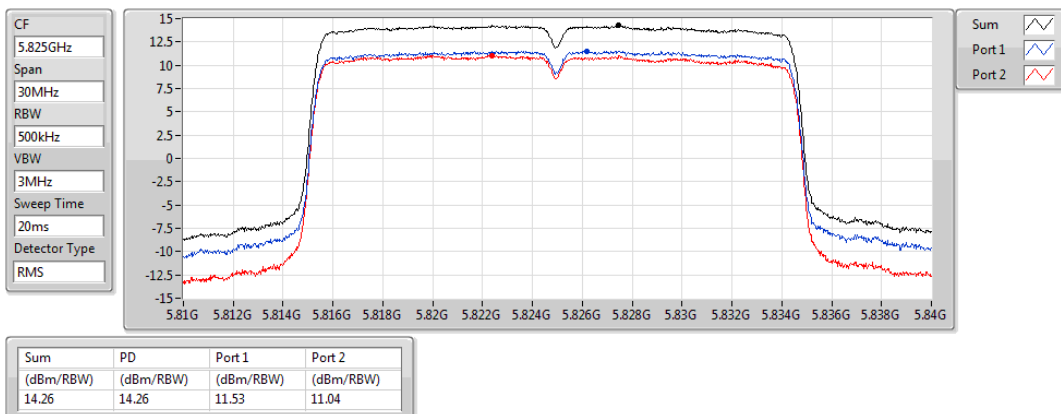


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

5825MHz

08/07/2020



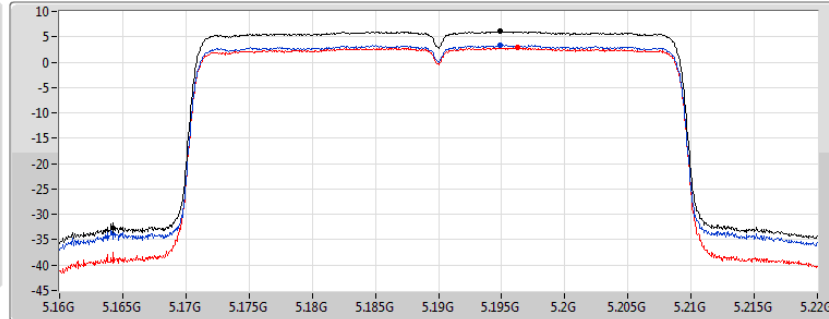
802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5190MHz

15/07/2020

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



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.12	6.12	3.42	2.84

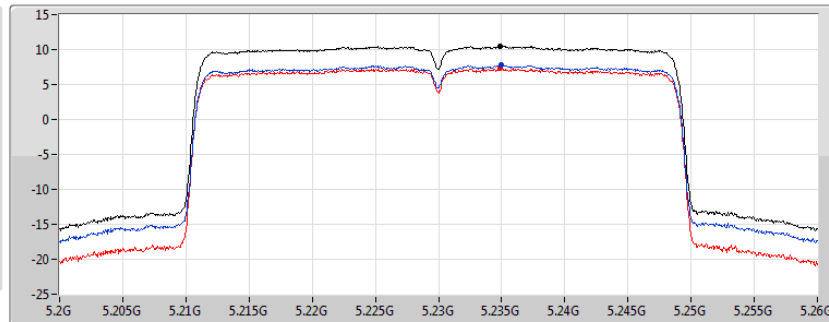
802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5230MHz

15/07/2020

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



Sum
Port 1
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.54	10.54	7.78	7.27

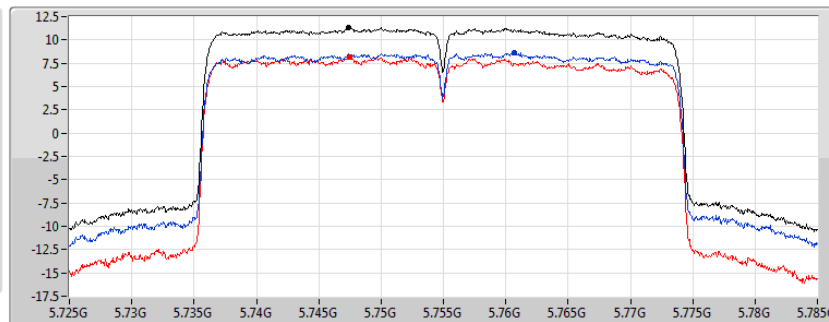
802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5755MHz

15/07/2020

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



Sum
Port 1
Port 2

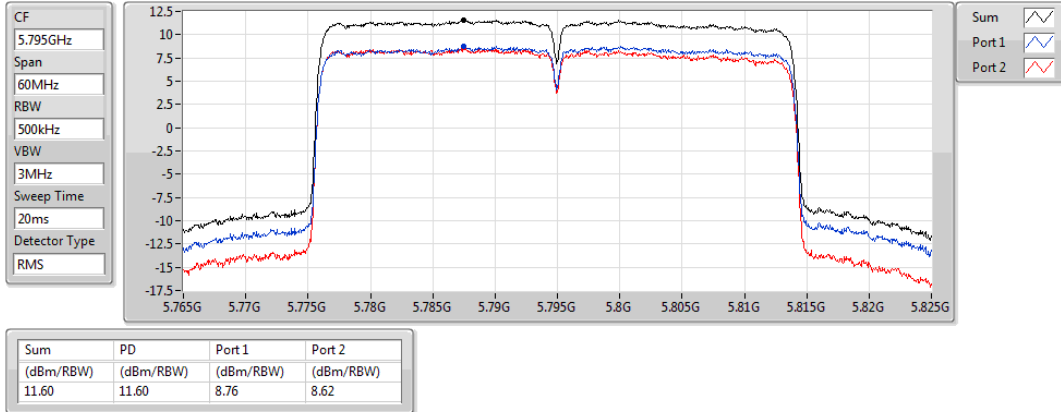
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.30	11.30	8.68	8.13

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

08/07/2020

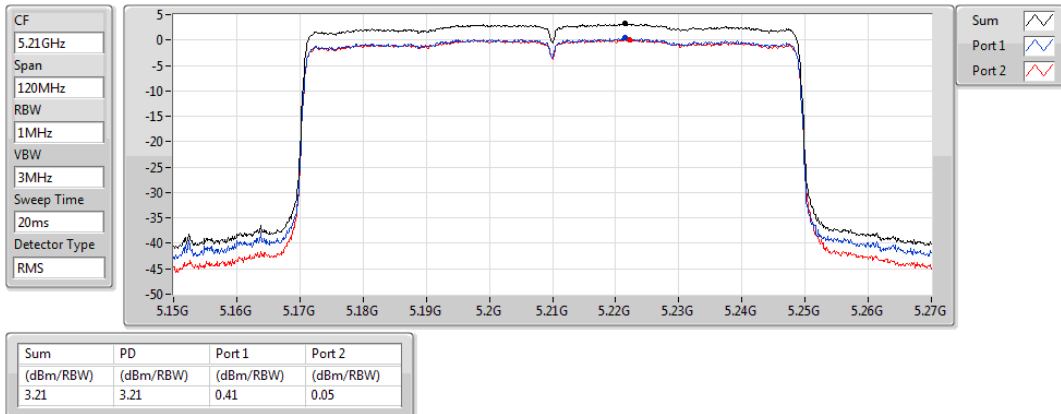


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

PSD

5210MHz

15/07/2020

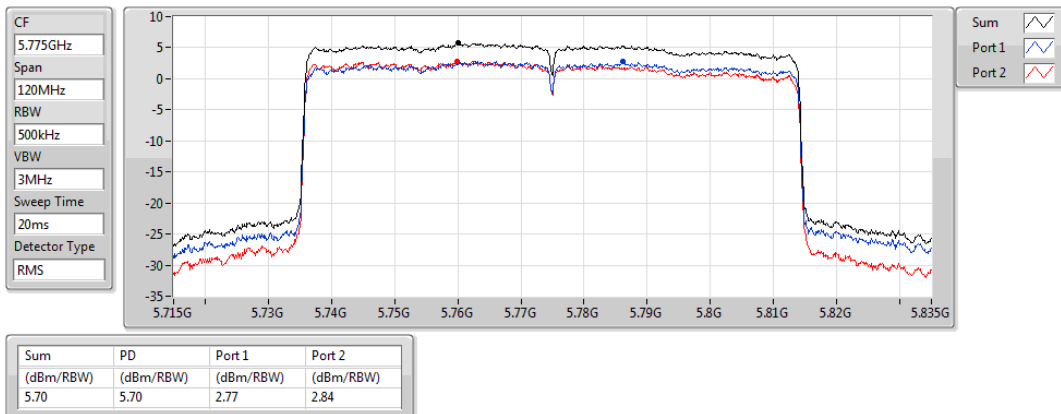


802.11ax HEW80-BF_Nss1,(MCS0)_2TX

PSD

5775MHz

15/07/2020





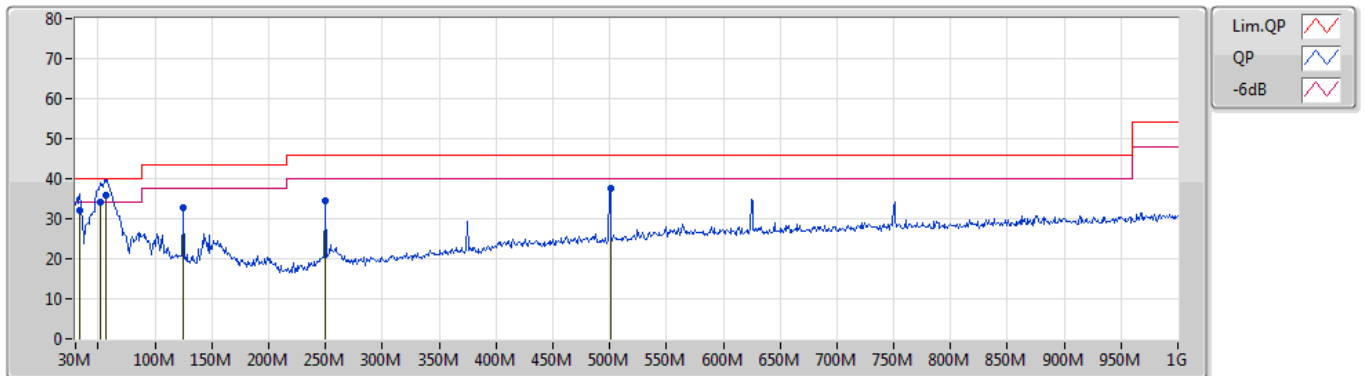
Radiated Emissions below 1GHz

Appendix E.1

Summary

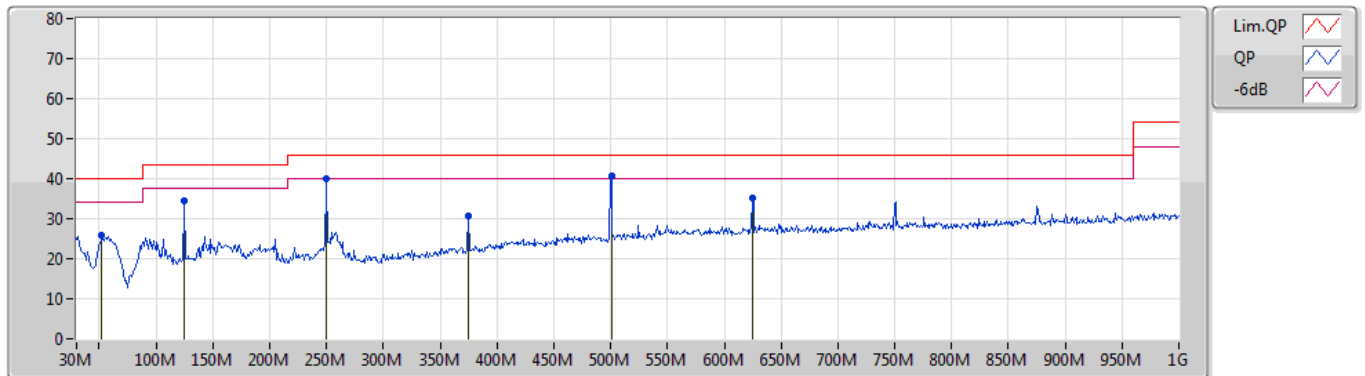
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	56.19M	35.97	40.00	-4.03	Vertical

20/07/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	33.88M	32.21	40.00	-7.79	-7.91	3	Vertical	133	1.25	-	40.12	22.30	1.28	31.49
QP	51.34M	34.23	40.00	-5.77	-16.35	3	Vertical	360	1.00	-	50.58	14.13	1.17	31.65
QP	56.19M	35.97	40.00	-4.03	-17.72	3	Vertical	20	1.00	"Worst"	53.69	12.92	1.12	31.76
PK	125.06M	32.77	43.50	-10.73	-12.07	3	Vertical	176	1.00	-	44.84	17.98	1.73	31.78
PK	250.19M	34.53	46.00	-11.47	-11.98	3	Vertical	26	1.00	-	46.51	17.77	2.20	31.95
PK	500.45M	37.61	46.00	-8.39	-6.32	3	Vertical	198	1.50	-	43.93	22.95	3.10	32.37

20/07/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	52.31M	25.96	40.00	-14.04	-16.65	3	Horizontal	104	2.00	-	42.61	13.88	1.15	31.68
PK	125.06M	34.62	43.50	-8.88	-12.07	3	Horizontal	281	1.50	-	46.69	17.98	1.73	31.78
PK	250.19M	39.96	46.00	-6.04	-11.98	3	Horizontal	290	1.00	-	51.94	17.77	2.20	31.95
PK	375.32M	30.78	46.00	-15.22	-9.09	3	Horizontal	186	1.00	-	39.87	20.23	2.75	32.07
PK	500.45M	40.69	46.00	-5.31	-6.32	3	Horizontal	164	1.50	"Worst"	47.01	22.95	3.10	32.37
PK	624.61M	35.18	46.00	-10.82	-4.47	3	Horizontal	145	1.50	-	39.65	24.39	3.55	32.41



<Non-beamforming mode>

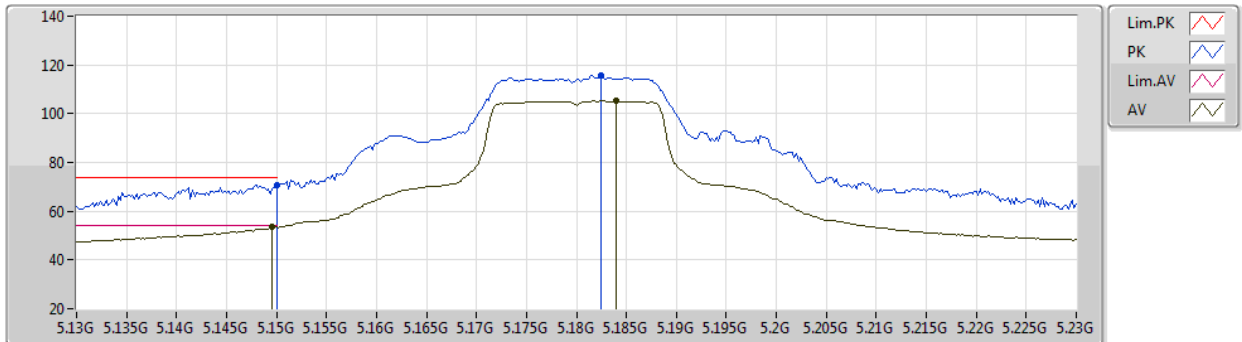
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	5.15G	53.94	54.00	-0.06	3	Vertical	320	2.13	-

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5180MHz_TX



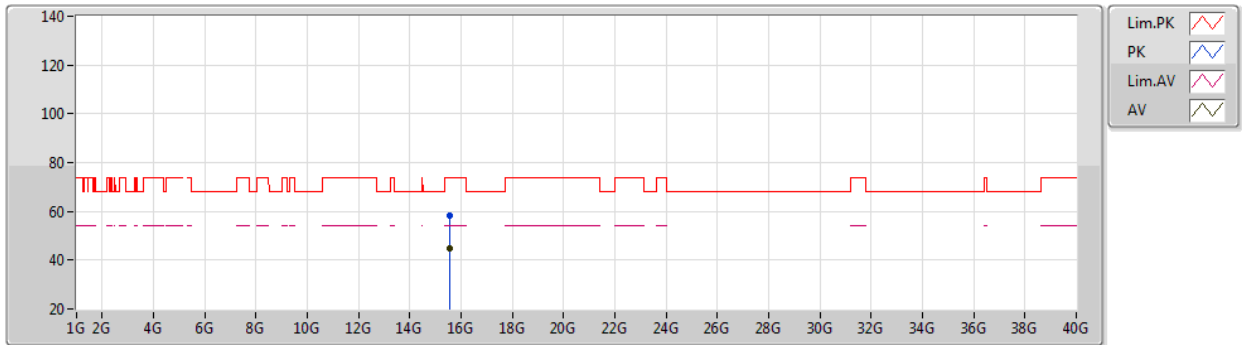
EUT Z_1TX_ANT 1
Setting 84
06-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.15G	70.53	74.00	-3.47	64.81	3	Vertical	318	2.27	-	31.75	5.60	31.63
AV	5.1496G	53.60	54.00	-0.40	47.88	3	Vertical	318	2.27	-	31.75	5.60	31.63
PK	5.1824G	115.48	Inf	-Inf	109.95	3	Vertical	318	2.27	-	31.59	5.60	31.66
AV	5.184G	105.31	Inf	-Inf	99.79	3	Vertical	318	2.27	-	31.58	5.60	31.66

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5180MHz_TX



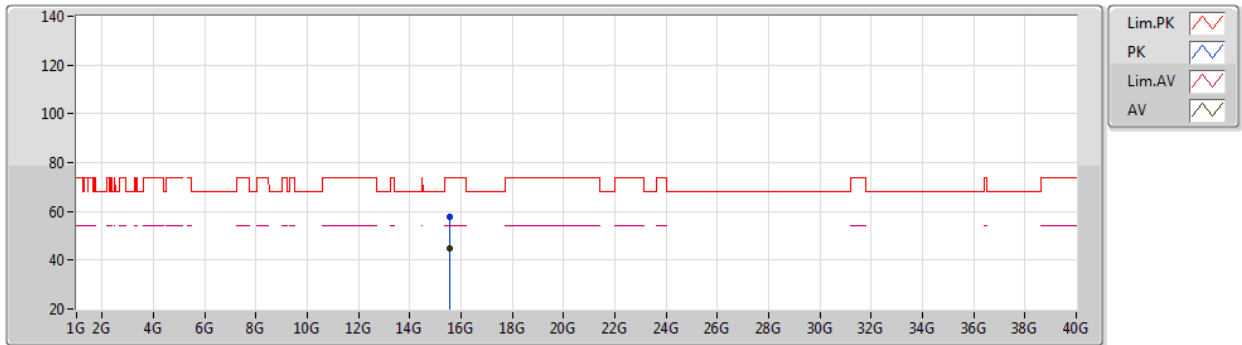
EUT Z_1TX_ANT 1
Setting 84
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.5408G	58.06	74.00	-15.94	44.45	3	Vertical	328	1.82	-	39.11	8.75	34.25	
AV	15.5486G	45.08	54.00	-8.92	31.50	3	Vertical	328	1.82	-	39.08	8.75	34.25	

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5180MHz_TX



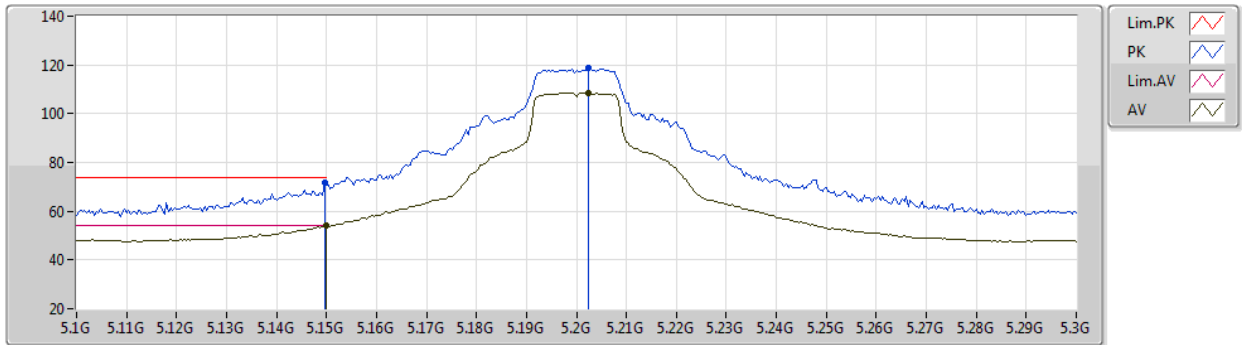
EUT Z_1TX_ANT 1
Setting 84
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.547G	57.94	74.00	-16.06	44.35	3	Horizontal	251	1.64	-	39.09	8.75	34.25	
AV	15.5418G	44.94	54.00	-9.06	31.34	3	Horizontal	251	1.64	-	39.10	8.75	34.25	

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5200MHz_TX



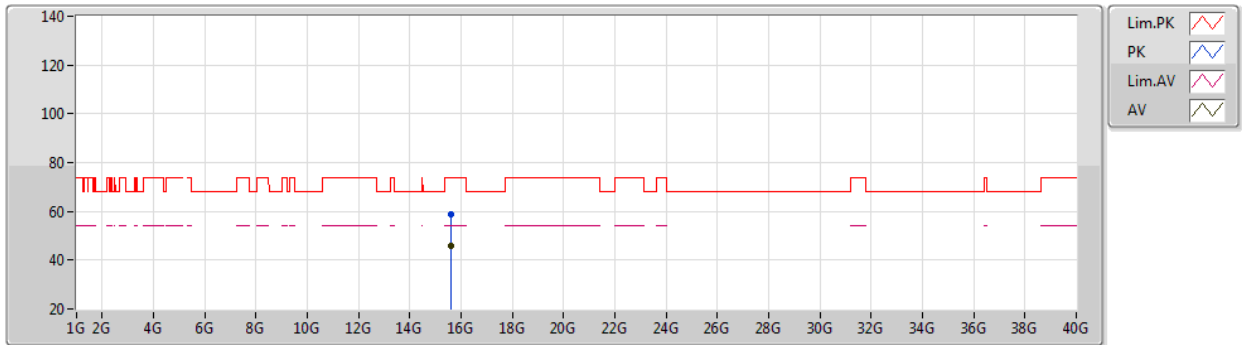
EUT Z_1TX_ANT 1
Setting 97
06-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	71.52	74.00	-2.48	65.80	3	Vertical	320	2.13	-	31.75	5.60	31.63
AV	5.15G	53.94	54.00	-0.06	48.22	3	Vertical	320	2.13	-	31.75	5.60	31.63
PK	5.2024G	118.65	Inf	-Inf	113.23	3	Vertical	320	2.13	-	31.49	5.60	31.67
AV	5.2024G	108.64	Inf	-Inf	103.22	3	Vertical	320	2.13	-	31.49	5.60	31.67

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5200MHz_TX



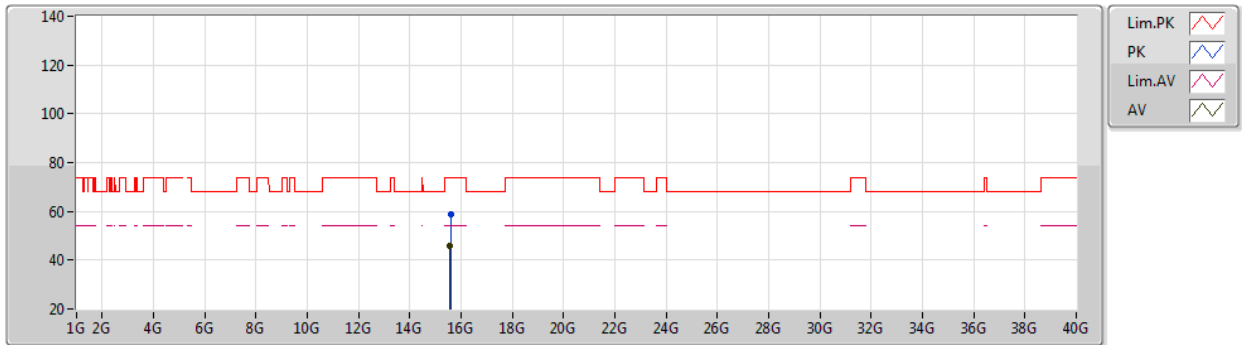
EUT Z_1TX_ANT 1
Setting 97
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.5875G	58.64	74.00	-15.36	45.21	3	Vertical	201	2.36	-	38.94	8.74	34.25	
AV	15.5988G	45.98	54.00	-8.02	32.59	3	Vertical	201	2.36	-	38.90	8.74	34.25	

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5200MHz_TX



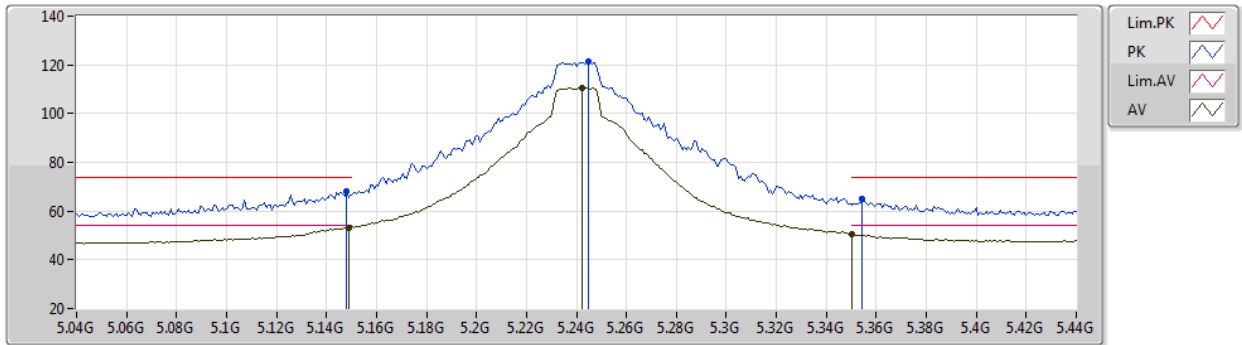
EUT Z_1TX_ANT 1
Setting 97
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.6112G	58.72	74.00	-15.28	45.37	3	Horizontal	347	1.62	-	38.86	8.74	34.25
AV	15.575G	46.01	54.00	-7.99	32.53	3	Horizontal	347	1.62	-	38.99	8.74	34.25

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5240MHz_TX



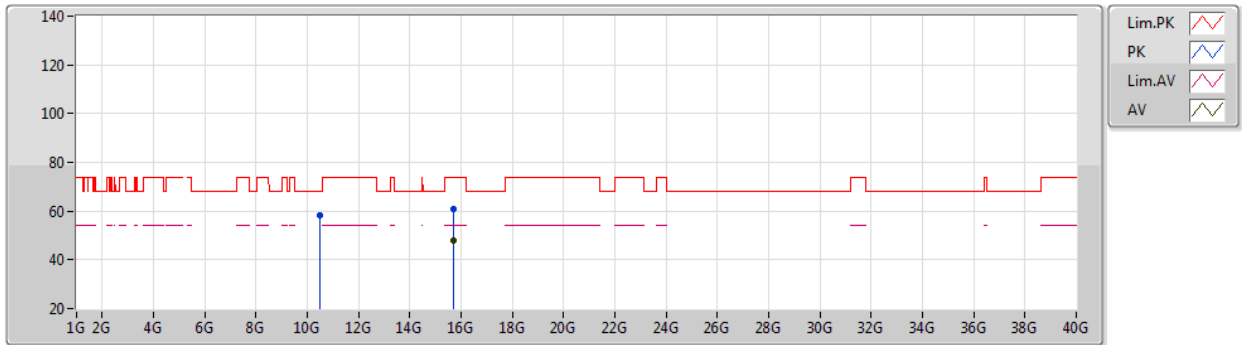
EUT Z_1TX_ANT 1
Setting 116
06-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.148G	68.08	74.00	-5.92	62.35	3	Vertical	198	1.95	-	31.76	5.60	31.63
AV	5.1488G	53.30	54.00	-0.70	47.57	3	Vertical	198	1.95	-	31.76	5.60	31.63
PK	5.2448G	121.17	Inf	-Inf	115.91	3	Vertical	198	1.95	-	31.32	5.64	31.70
AV	5.2424G	110.72	Inf	-Inf	105.45	3	Vertical	198	1.95	-	31.33	5.64	31.70
PK	5.3544G	65.15	74.00	-8.85	59.81	3	Vertical	198	1.95	-	31.37	5.75	31.78
AV	5.35G	50.37	54.00	-3.63	45.05	3	Vertical	198	1.95	-	31.35	5.75	31.78

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5240MHz_TX



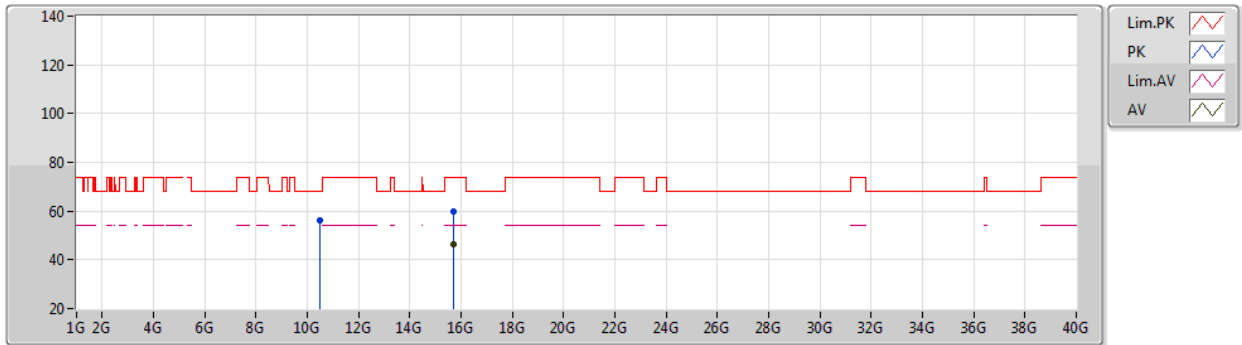
EUT Z_1TX_ANT 1
Setting 116
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.4768G	58.13	68.20	-10.07	44.56	3	Vertical	163	1.76	-	39.72	7.77	33.92
PK	15.7284G	60.65	74.00	-13.35	47.72	3	Vertical	314	2.00	-	38.45	8.73	34.25
AV	15.7199G	47.92	54.00	-6.08	34.96	3	Vertical	314	2.00	-	38.48	8.73	34.25

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5240MHz_TX



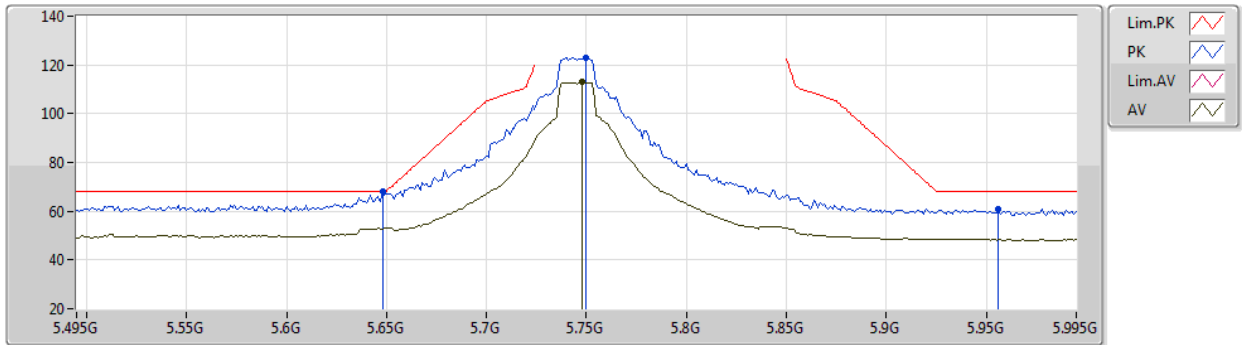
EUT Z_1TX_ANT 1
Setting 116
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	10.4934G	56.34	68.20	-11.86	42.76	3	Horizontal	120	1.43	-	39.74	7.77	33.93
PK	15.7194G	59.83	74.00	-14.17	46.87	3	Horizontal	220	1.91	-	38.48	8.73	34.25
AV	15.7199G	46.38	54.00	-7.62	33.42	3	Horizontal	220	1.91	-	38.48	8.73	34.25

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5745MHz_TX



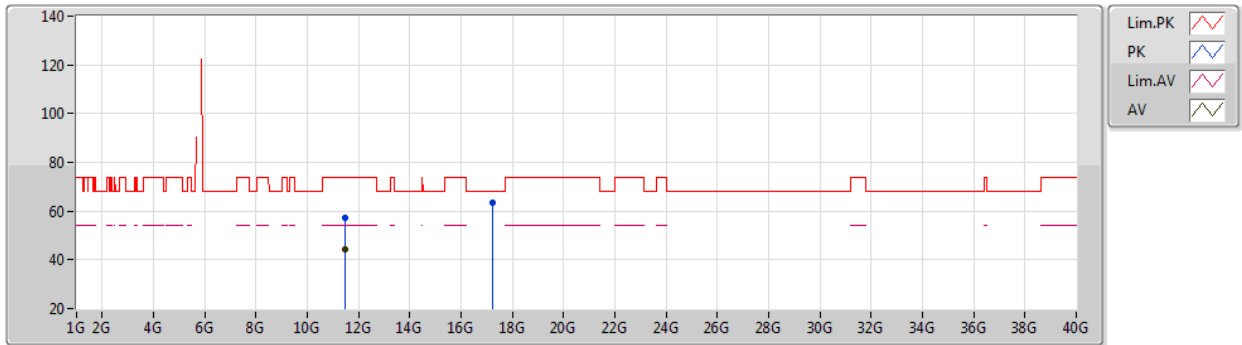
EUT Z_1TX_ANT 1
Setting 119
06-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.648G	67.93	68.20	-0.27	62.24	3	Vertical	145	2.10	-	31.65	5.84	31.80
PK	5.75G	123.16	Inf	-Inf	117.06	3	Vertical	145	2.10	-	31.90	5.95	31.75
AV	5.748G	113.15	Inf	-Inf	107.07	3	Vertical	145	2.10	-	31.89	5.94	31.75
PK	5.956G	61.08	68.20	-7.12	54.41	3	Vertical	145	2.10	-	32.40	5.92	31.65

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5745MHz_TX



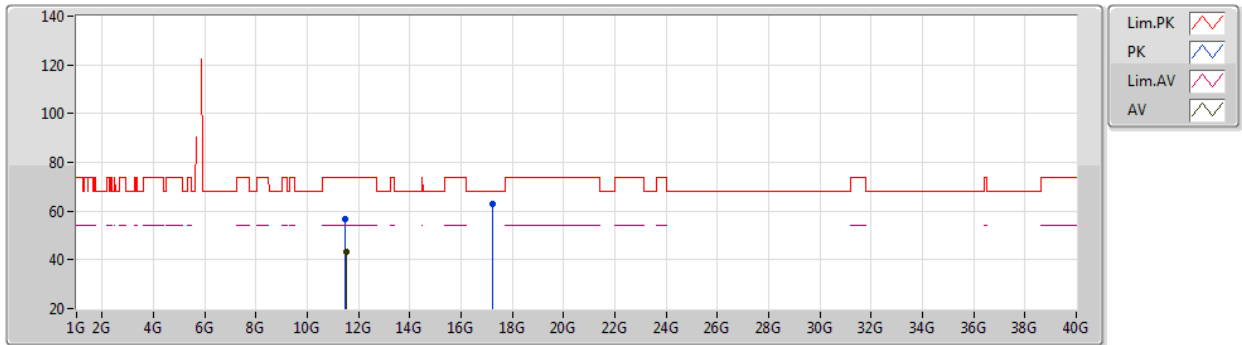
EUT Z_1TX_ANT 1
Setting 119
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.4908G	57.42	74.00	-16.58	43.80	3	Vertical	255	1.75	-	39.66	8.12	34.16
AV	11.4885G	44.13	54.00	-9.87	30.50	3	Vertical	255	1.75	-	39.67	8.12	34.16
PK	17.2347G	63.57	68.20	-4.63	45.33	3	Vertical	161	1.80	-	43.05	9.50	34.31

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5745MHz_TX



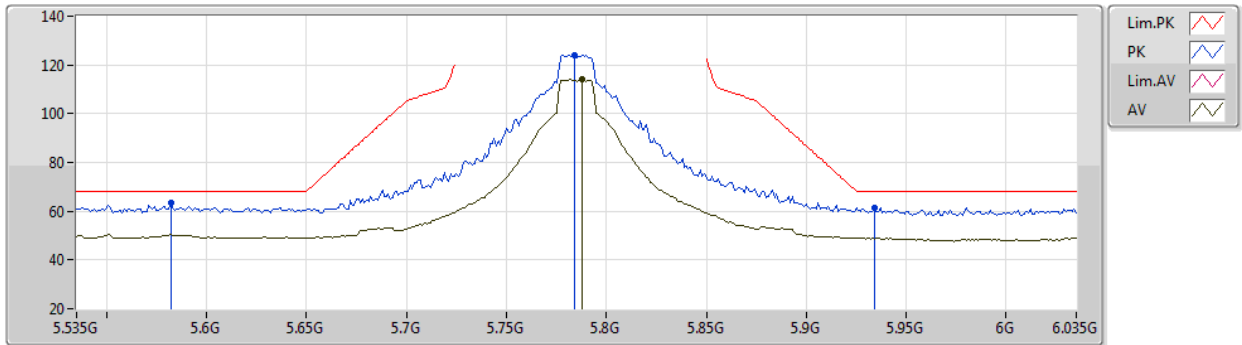
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Setting 119
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.4966G	56.52	74.00	-17.48	42.90	3	Horizontal	360	1.80	-	39.66	8.12	34.16
AV	11.5067G	43.25	54.00	-10.75	29.65	3	Horizontal	360	1.80	-	39.64	8.13	34.17
PK	17.2464G	63.04	68.20	-5.16	44.68	3	Horizontal	321	2.58	-	43.16	9.51	34.31

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5785MHz_TX



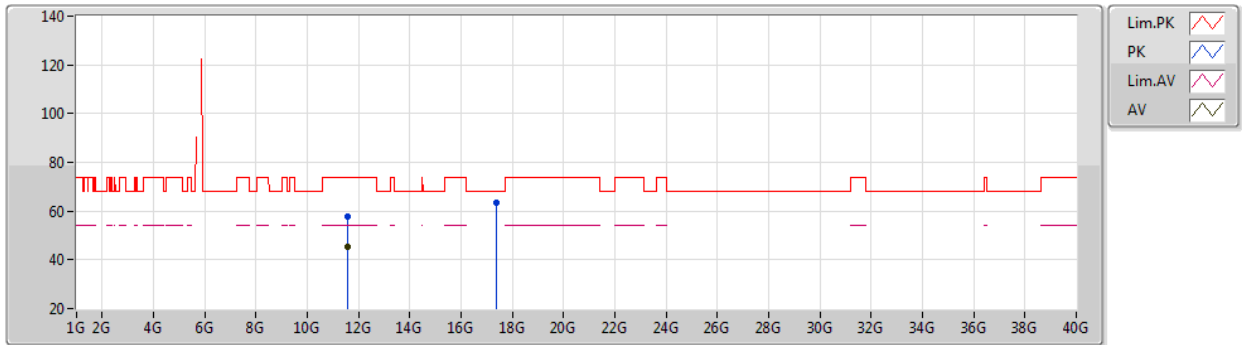
EUT Z_1TX_ANT 1
Setting 120
06-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.582G	63.45	68.20	-4.75	57.84	3	Vertical	143	2.08	-	31.64	5.80	31.83
PK	5.784G	124.06	Inf	-Inf	117.78	3	Vertical	143	2.08	-	32.04	5.98	31.74
AV	5.788G	114.03	Inf	-Inf	107.72	3	Vertical	143	2.08	-	32.05	5.99	31.73
PK	5.934G	61.53	68.20	-6.67	54.86	3	Vertical	143	2.08	-	32.40	5.93	31.66

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5785MHz_TX



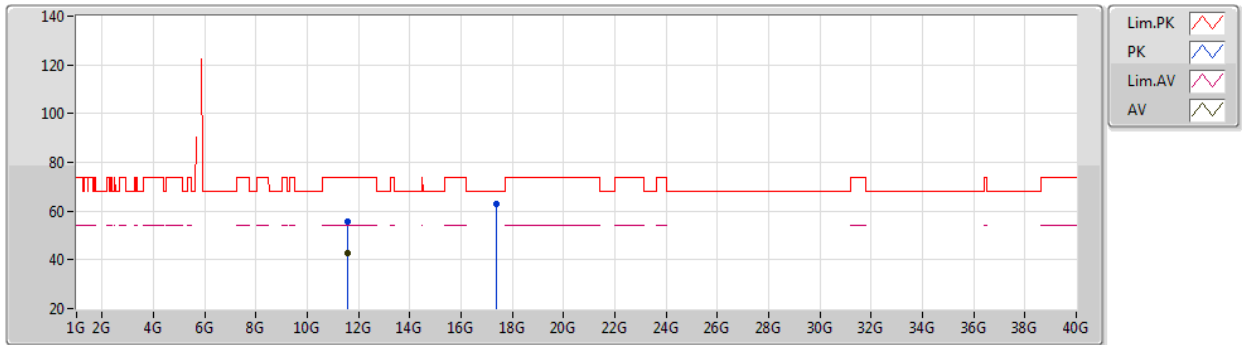
EUT Z_1TX_ANT 1
Setting 120
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5722G	57.60	74.00	-16.40	44.08	3	Vertical	253	1.80	-	39.54	8.15	34.17
AV	11.5728G	45.11	54.00	-8.89	31.59	3	Vertical	253	1.80	-	39.54	8.15	34.17
PK	17.3685G	63.68	68.20	-4.52	44.01	3	Vertical	343	1.67	-	44.38	9.59	34.30

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5785MHz_TX



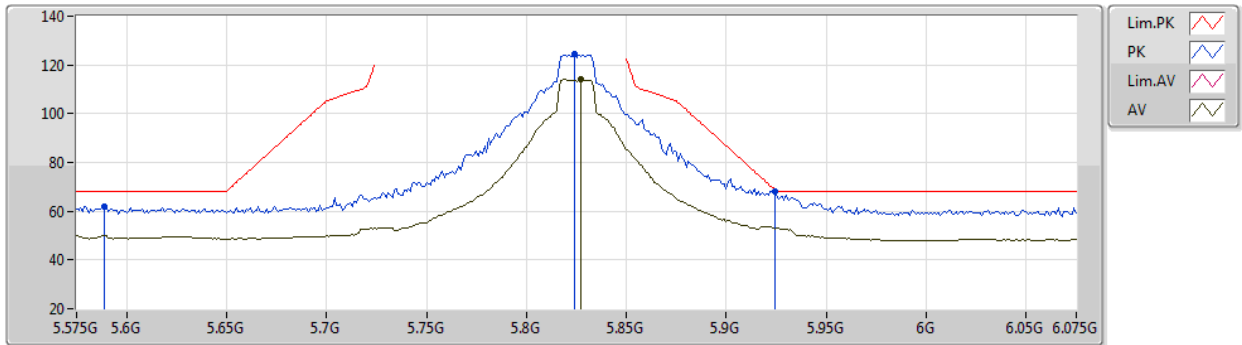
EUT Z_1TX_ANT 1
Setting 120
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.5593G	55.90	74.00	-18.10	42.36	3	Horizontal	107	2.53	-	39.56	8.15	34.17
AV	11.5751G	42.91	54.00	-11.09	29.39	3	Horizontal	107	2.53	-	39.54	8.15	34.17
PK	17.3691G	63.12	68.20	-5.08	43.44	3	Horizontal	21	2.21	-	44.39	9.59	34.30

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5825MHz_TX



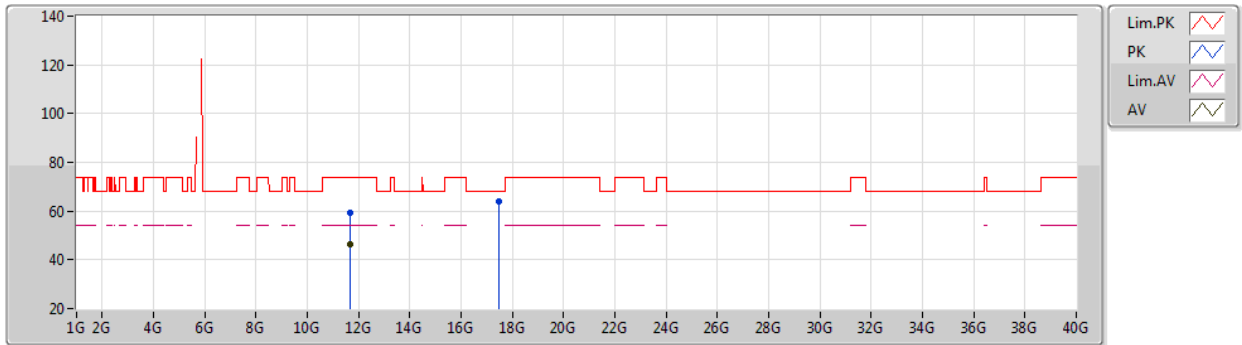
EUT Z_1TX_ANT 1
Setting 120
06-F-K-3-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.589G	61.74	68.20	-6.46	56.15	3	Vertical	142	2.14	-	31.62	5.80	31.83
PK	5.824G	124.27	Inf	-Inf	117.83	3	Vertical	142	2.14	-	32.17	5.99	31.72
AV	5.827G	114.12	Inf	-Inf	107.66	3	Vertical	142	2.14	-	32.18	5.99	31.71
PK	5.924G	67.89	68.94	-1.05	61.21	3	Vertical	142	2.14	-	32.40	5.94	31.66

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5825MHz_TX



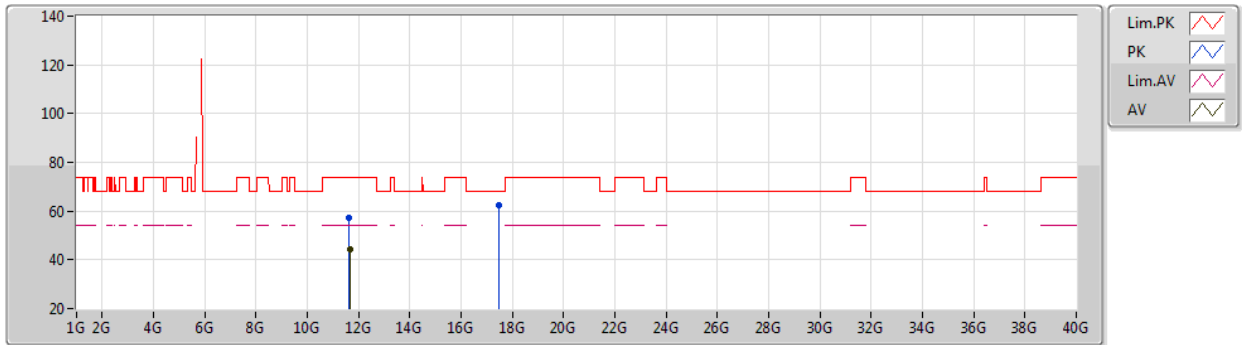
EUT Z_1TX_ANT 1
Setting 120
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.6506G	59.24	74.00	-14.76	45.81	3	Vertical	254	1.80	-	39.42	8.18	34.17
AV	11.6513G	46.23	54.00	-7.77	32.80	3	Vertical	254	1.80	-	39.42	8.18	34.17
PK	17.4692G	63.83	68.20	-4.37	43.08	3	Vertical	0	1.80	-	45.39	9.65	34.29

802.11a_Nss1,(6Mbps)_1TX

06/04/2020

5825MHz_TX



EUT Z_1TX_ANT 1
Setting 120
06-F-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.6416G	57.26	74.00	-16.74	43.82	3	Horizontal	260	1.66	-	39.44	8.17	34.17
AV	11.6525G	44.24	54.00	-9.76	30.81	3	Horizontal	260	1.66	-	39.42	8.18	34.17
PK	17.4726G	62.44	68.20	-5.76	41.64	3	Horizontal	309	1.47	-	45.43	9.66	34.29



<beamforming mode>

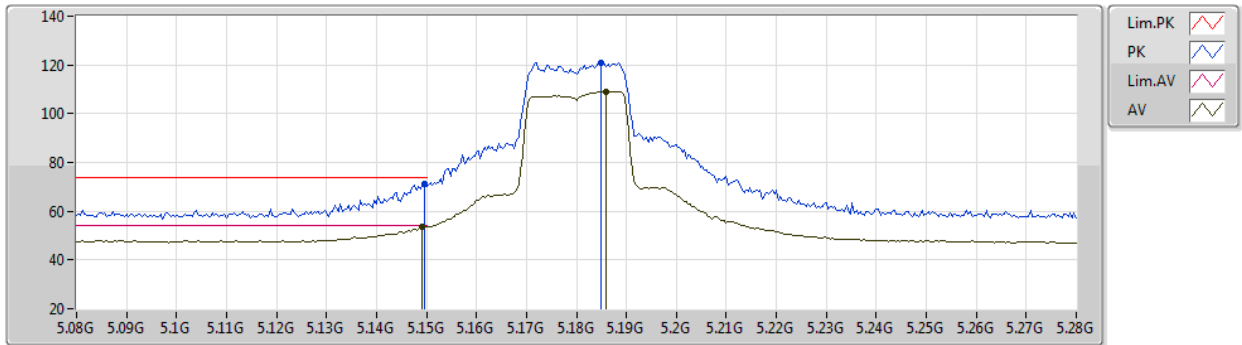
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	AV	5.15G	53.97	54.00	-0.03	3	Vertical	332	2.23	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5180MHz_TX



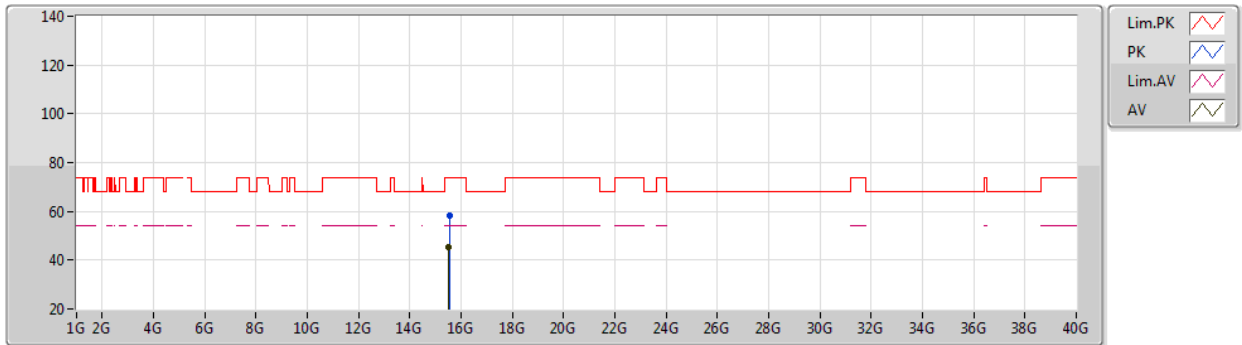
EUT_Z_2TX
Setting 79
06-F-S-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1496G	71.28	74.00	-2.72	65.56	3	Vertical	203	2.14	-	31.75	5.60	31.63
AV	5.1492G	53.79	54.00	-0.21	48.07	3	Vertical	203	2.14	-	31.75	5.60	31.63
PK	5.1848G	120.91	Inf	-Inf	115.39	3	Vertical	203	2.14	-	31.58	5.60	31.66
AV	5.186G	109.03	Inf	-Inf	103.52	3	Vertical	203	2.14	-	31.57	5.60	31.66

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5180MHz_TX



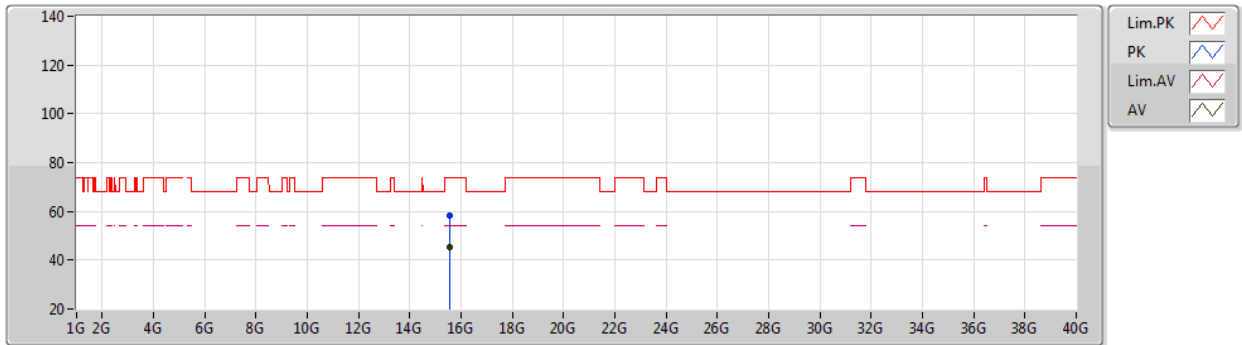
EUT_Z_2TX
Setting 79
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.55362G	58.09	74.00	-15.91	44.54	3	Vertical	158	1.19	-	39.06	8.74	34.25
AV	15.53034G	45.34	54.00	-8.66	31.70	3	Vertical	158	1.19	-	39.14	8.75	34.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5180MHz_TX



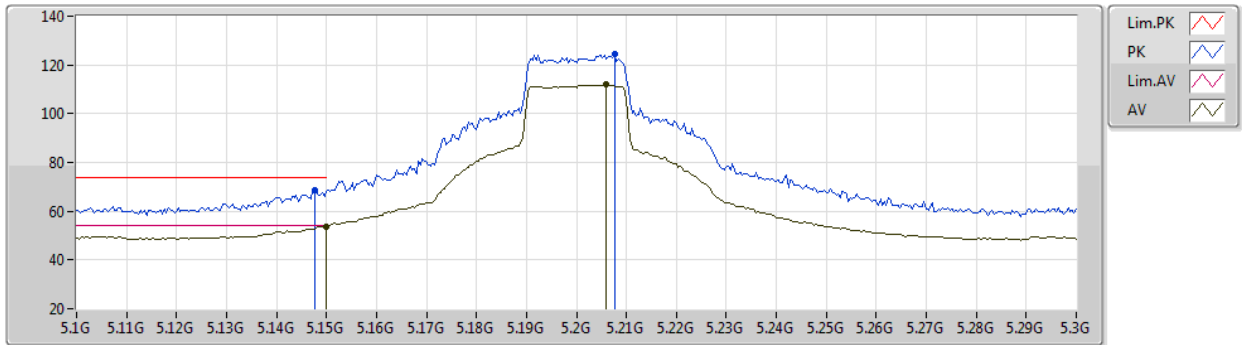
EUT_Z_2TX
Setting 79
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.54186G	58.37	74.00	-15.63	44.77	3	Horizontal	99	2.26	-	39.10	8.75	34.25
AV	15.555G	45.45	54.00	-8.55	31.90	3	Horizontal	99	2.26	-	39.06	8.74	34.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5200MHz_TX



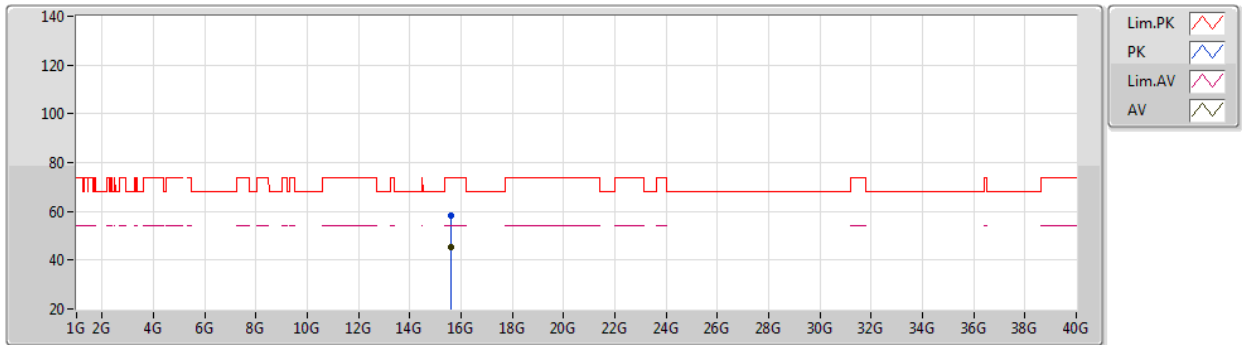
EUT_Z_2TX
Setting 92
06-F-S-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1476G	68.81	74.00	-5.19	63.08	3	Vertical	218	2.15	-	31.76	5.60	31.63
AV	5.15G	53.82	54.00	-0.18	48.10	3	Vertical	218	2.15	-	31.75	5.60	31.63
PK	5.2076G	124.32	Inf	-Inf	118.92	3	Vertical	218	2.15	-	31.47	5.61	31.68
AV	5.206G	111.88	Inf	-Inf	106.46	3	Vertical	218	2.15	-	31.48	5.61	31.67

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5200MHz_TX



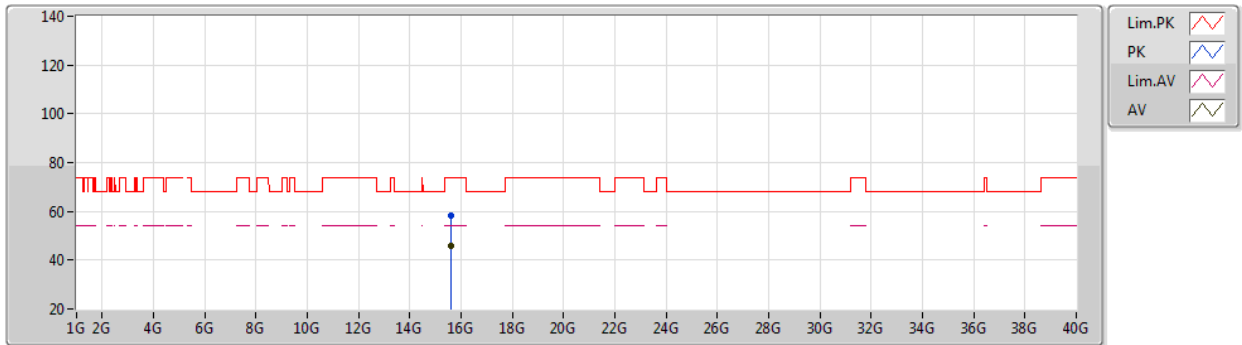
EUT_Z_2TX
Setting 92
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.60852G	58.30	74.00	-15.70	44.94	3	Vertical	266	1.45	-	38.87	8.74	34.25
AV	15.5889G	45.60	54.00	-8.40	32.17	3	Vertical	266	1.45	-	38.94	8.74	34.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5200MHz_TX



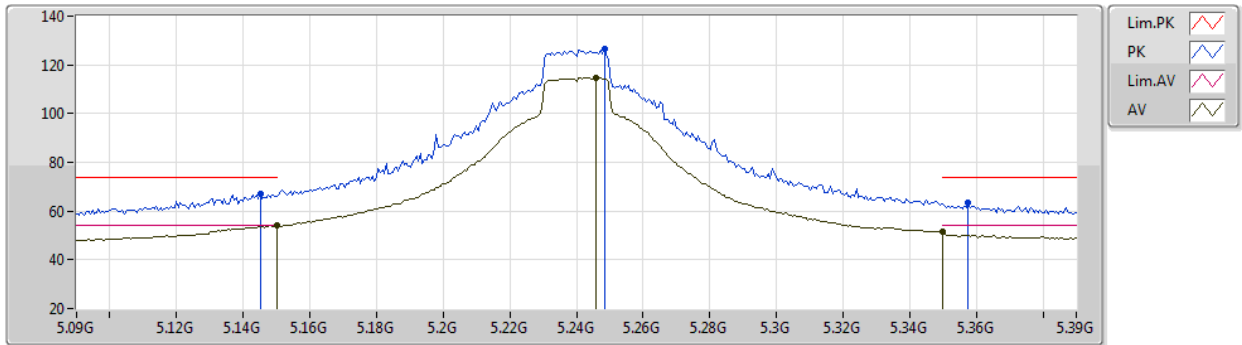
EUT_Z_2TX
Setting 92
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.60924G	58.16	74.00	-15.84	44.80	3	Horizontal	158	1.51	-	38.87	8.74	34.25
AV	15.60474G	45.73	54.00	-8.27	32.36	3	Horizontal	158	1.51	-	38.88	8.74	34.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5240MHz_TX



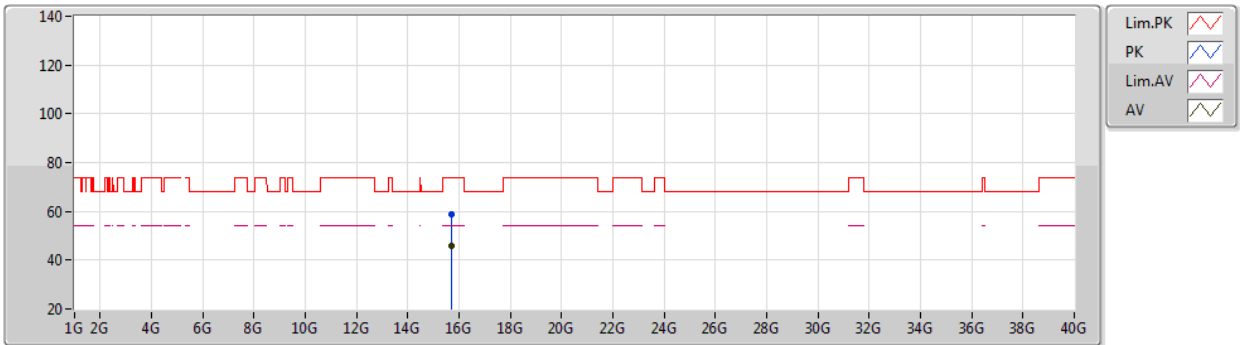
EUT Z_2TX
Setting 111
06-F-S-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.1452G	67.05	74.00	-6.95	61.31	3	Vertical	332	2.23	-	31.77	5.60	31.63
AV	5.15G	53.97	54.00	-0.03	48.25	3	Vertical	332	2.23	-	31.75	5.60	31.63
PK	5.2484G	126.47	Inf	-Inf	121.21	3	Vertical	332	2.23	-	31.31	5.65	31.70
AV	5.246G	114.69	Inf	-Inf	109.42	3	Vertical	332	2.23	-	31.32	5.65	31.70
PK	5.3576G	63.31	74.00	-10.69	57.94	3	Vertical	332	2.23	-	31.39	5.76	31.78
AV	5.35G	51.36	54.00	-2.64	46.04	3	Vertical	332	2.23	-	31.35	5.75	31.78

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5240MHz_TX



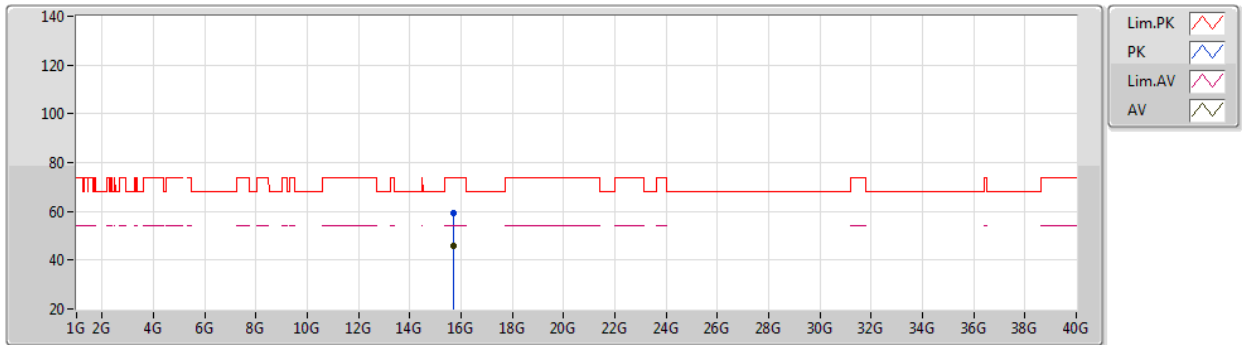
EUT_Z_2TX
Setting 111
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.72412G	58.55	74.00	-15.45	45.60	3	Vertical	219	1.80	-	38.47	8.73	34.25
AV	15.71388G	45.69	54.00	-8.31	32.71	3	Vertical	219	1.80	-	38.50	8.73	34.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5240MHz_TX



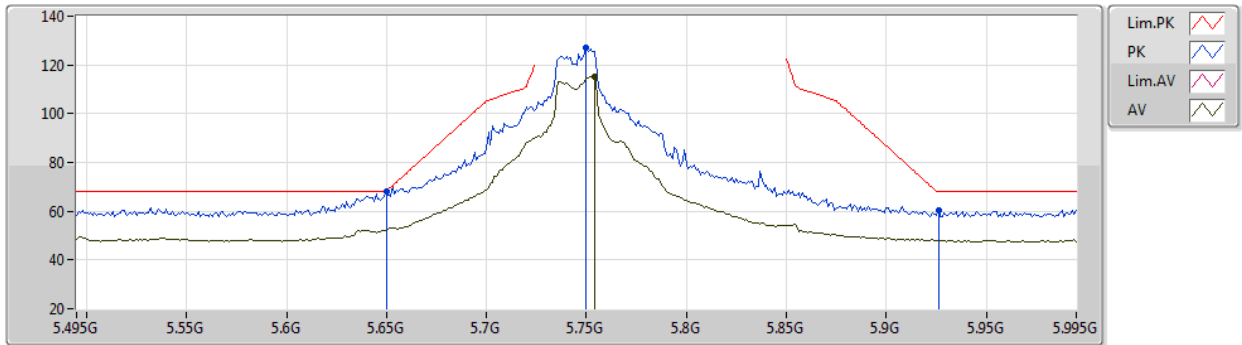
EUT_Z_2TX
Setting 111
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.72128G	59.46	74.00	-14.54	46.50	3	Horizontal	230	1.84	-	38.48	8.73	34.25
AV	15.7294G	45.96	54.00	-8.04	33.03	3	Horizontal	230	1.84	-	38.45	8.73	34.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5745MHz_TX



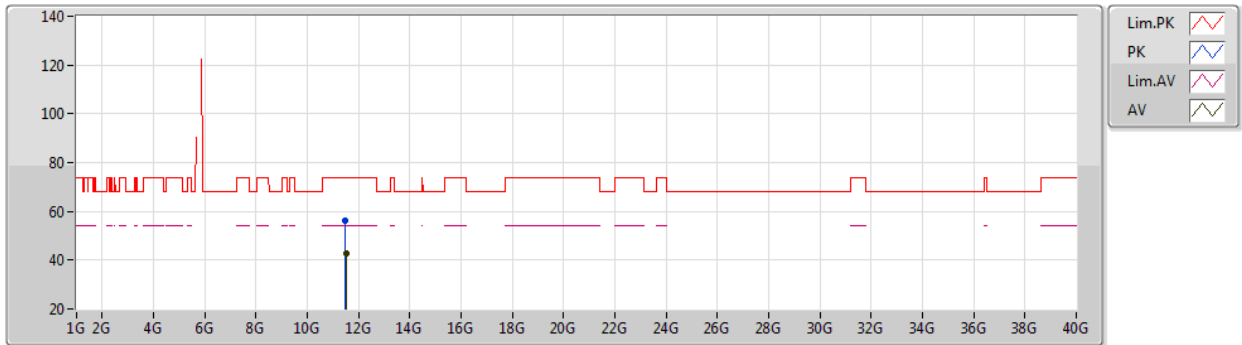
EUT_Z_2TX
Setting 119
06-F-S-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.65G	68.06	68.20	-0.14	62.37	3	Vertical	234	2.34	-	31.65	5.84	31.80
PK	5.75G	126.97	Inf	-Inf	120.87	3	Vertical	234	2.34	-	31.90	5.95	31.75
AV	5.754G	115.36	Inf	-Inf	109.24	3	Vertical	234	2.34	-	31.92	5.95	31.75
PK	5.926G	60.19	68.20	-8.01	53.51	3	Vertical	234	2.34	-	32.40	5.94	31.66

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5745MHz_TX



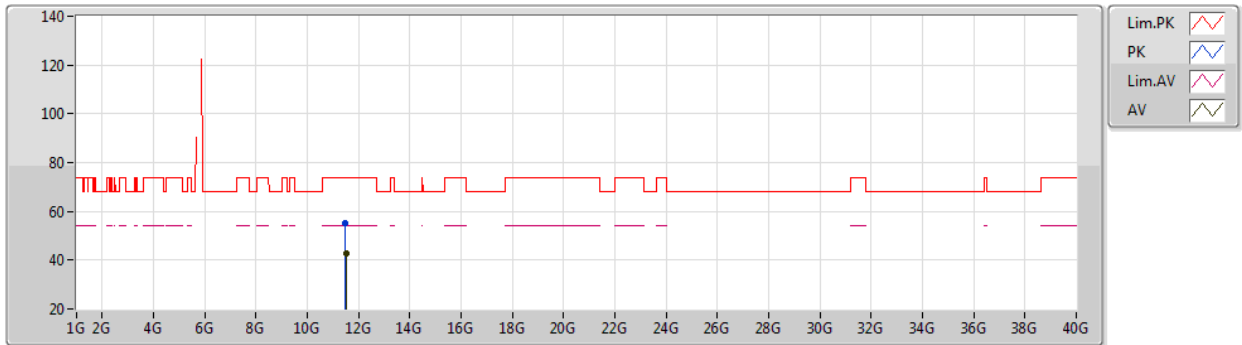
EUT_Z_2TX
Setting 119
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.48088G	56.00	74.00	-18.00	42.36	3	Vertical	0	1.80	-	39.68	8.12	34.16
AV	11.5029G	42.76	54.00	-11.24	29.15	3	Vertical	0	1.80	-	39.65	8.13	34.17

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5745MHz_TX



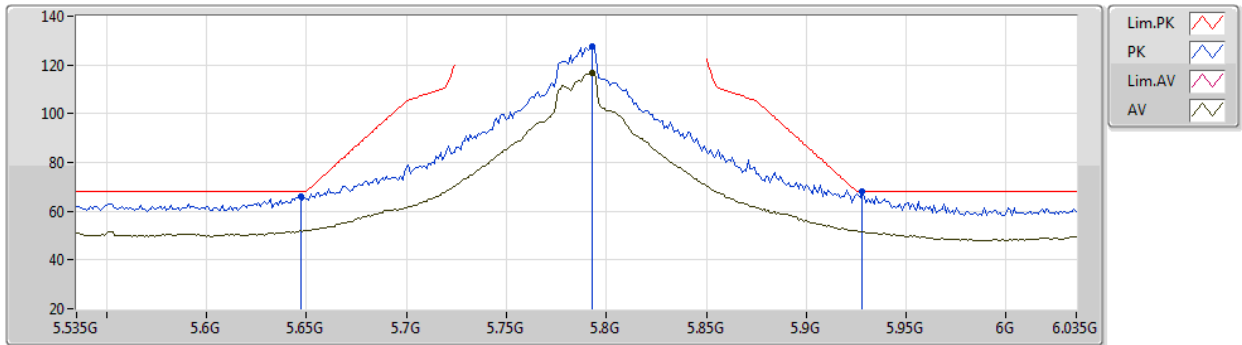
EUT_Z_2TX
Setting 119
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.49036G	55.23	74.00	-18.77	41.61	3	Horizontal	182	1.52	-	39.66	8.12	34.16
AV	11.50434G	42.64	54.00	-11.36	29.04	3	Horizontal	182	1.52	-	39.64	8.13	34.17

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5785MHz_TX



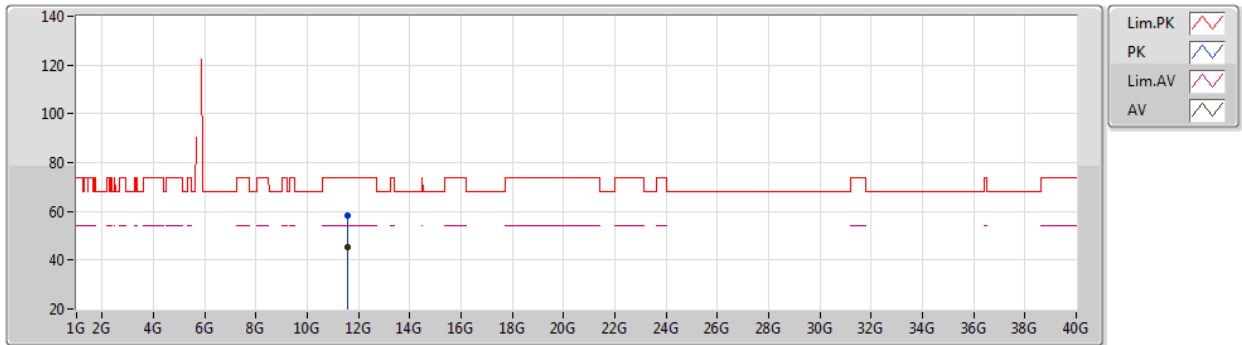
EUT_Z_2TX
Setting 120
06-F-S-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.647G	66.26	68.20	-1.94	60.57	3	Vertical	144	2.02	-	31.65	5.84	31.80
PK	5.793G	127.62	Inf	-Inf	121.29	3	Vertical	144	2.02	-	32.07	5.99	31.73
AV	5.793G	116.86	Inf	-Inf	110.53	3	Vertical	144	2.02	-	32.07	5.99	31.73
PK	5.928G	68.14	68.20	-0.06	61.46	3	Vertical	144	2.02	-	32.40	5.94	31.66

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5785MHz_TX



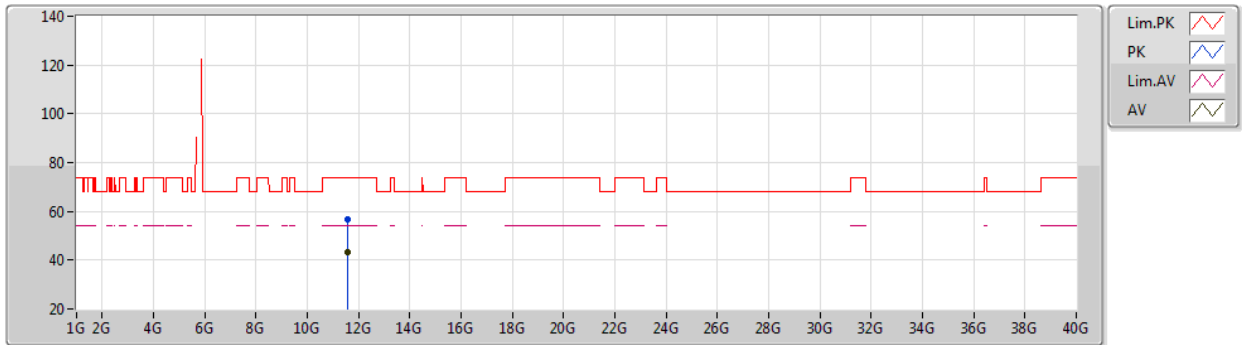
EUT_Z_2TX
Setting 120
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.56708G	58.35	74.00	-15.65	44.82	3	Vertical	205	1.80	-	39.55	8.15	34.17
AV	11.56852G	45.18	54.00	-8.82	31.65	3	Vertical	205	1.80	-	39.55	8.15	34.17

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5785MHz_TX



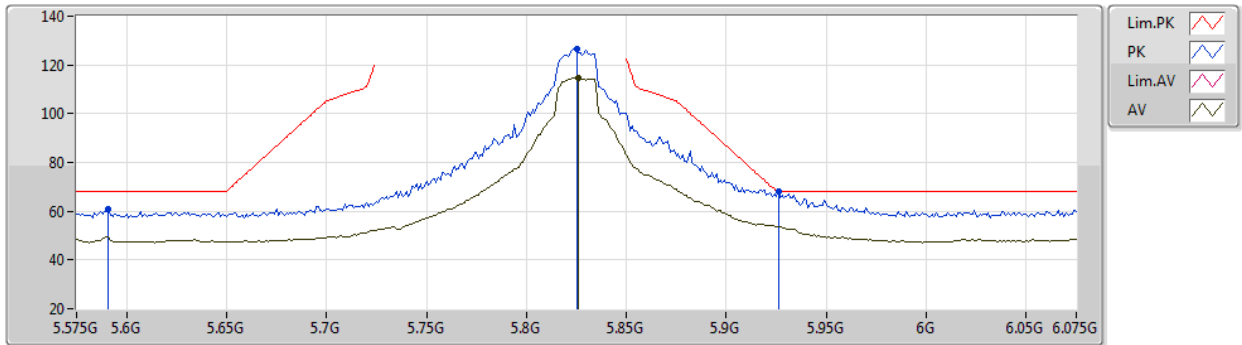
EUT_Z_2TX
Setting 120
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.57256G	56.64	74.00	-17.36	43.12	3	Horizontal	197	1.86	-	39.54	8.15	34.17
AV	11.57044G	43.48	54.00	-10.52	29.96	3	Horizontal	197	1.86	-	39.54	8.15	34.17

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5825MHz_TX



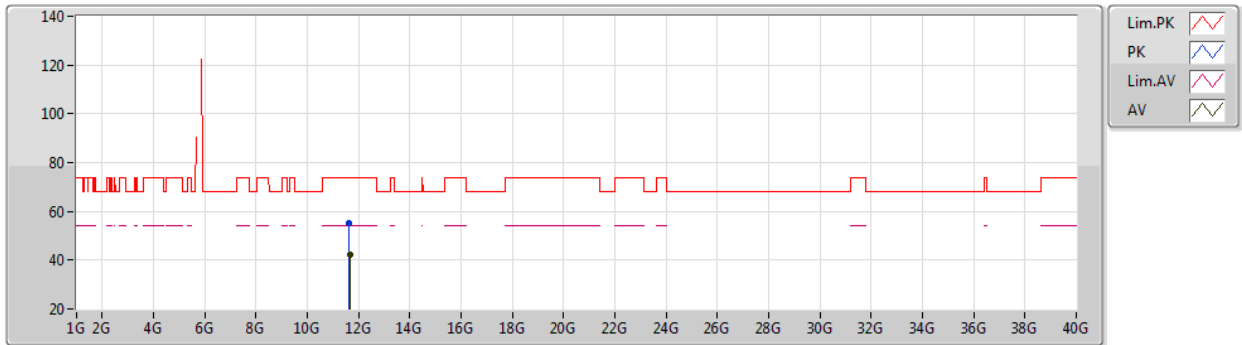
EUT Z_2TX
Setting 116
06-F-S-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.591G	60.68	68.20	-7.52	55.08	3	Vertical	238	2.39	-	31.62	5.80	31.82
PK	5.825G	126.57	Inf	-Inf	120.12	3	Vertical	238	2.39	-	32.17	5.99	31.71
AV	5.826G	114.81	Inf	-Inf	108.35	3	Vertical	238	2.39	-	32.18	5.99	31.71
PK	5.926G	67.99	68.20	-0.21	61.31	3	Vertical	238	2.39	-	32.40	5.94	31.66

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5825MHz_TX



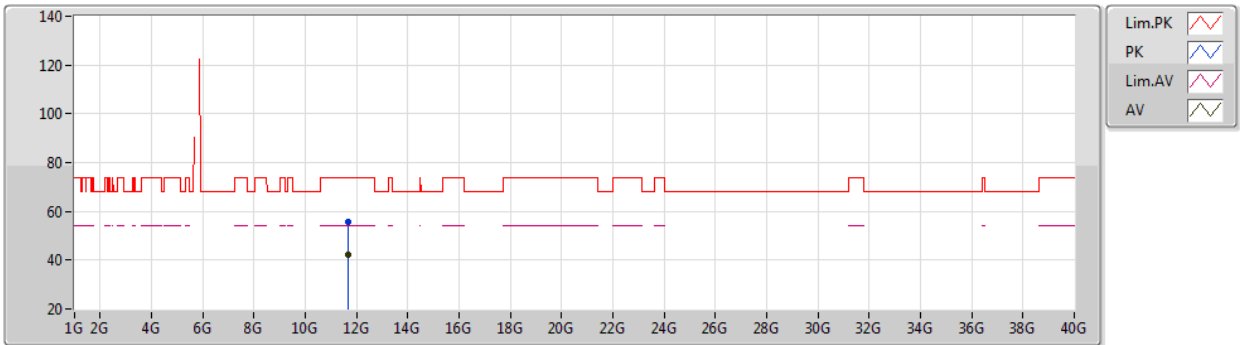
EUT_Z_2TX
Setting 116
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.64238G	55.20	74.00	-18.80	41.76	3	Vertical	221	2.83	-	39.44	8.17	34.17
AV	11.66026G	42.40	54.00	-11.60	28.98	3	Vertical	221	2.83	-	39.41	8.18	34.17

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

29/06/2020

5825MHz_TX



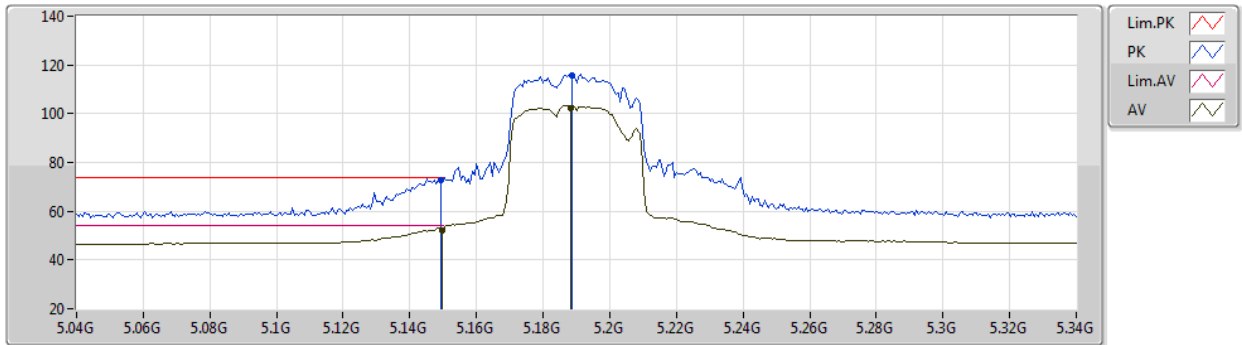
EUT_Z_2TX
Setting 116
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.65534G	55.63	74.00	-18.37	42.20	3	Horizontal	11	2.93	-	39.42	8.18	34.17
AV	11.65588G	42.42	54.00	-11.58	28.99	3	Horizontal	11	2.93	-	39.42	8.18	34.17

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5190MHz_TX



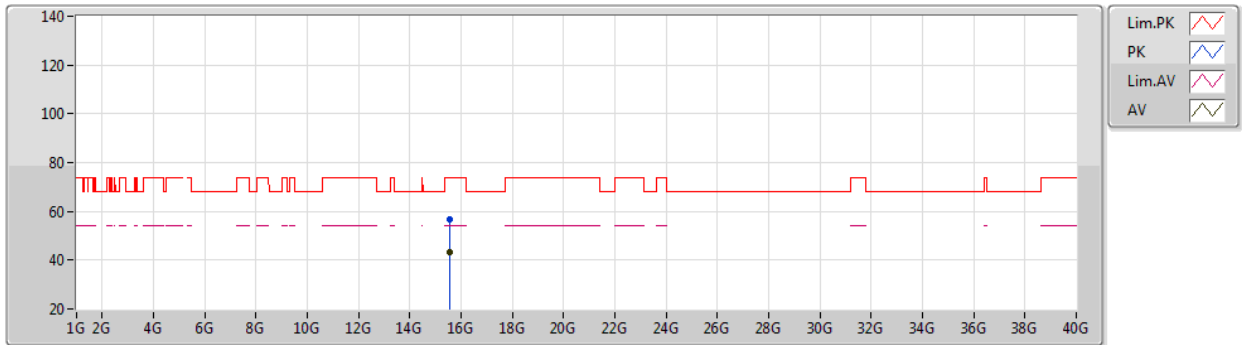
EUT_Z_2TX
Setting 74
04-E-P-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	5.1492G	72.99	74.00	-1.01	68.21	3	Vertical	148	2.64	-	33.05	5.10	33.37	
AV	5.1498G	52.11	54.00	-1.89	47.33	3	Vertical	148	2.64	-	33.05	5.10	33.37	
PK	5.1888G	115.68	Inf	-Inf	110.85	3	Vertical	148	2.64	-	33.09	5.12	33.38	
AV	5.1882G	102.44	Inf	-Inf	97.61	3	Vertical	148	2.64	-	33.09	5.12	33.38	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5190MHz_TX



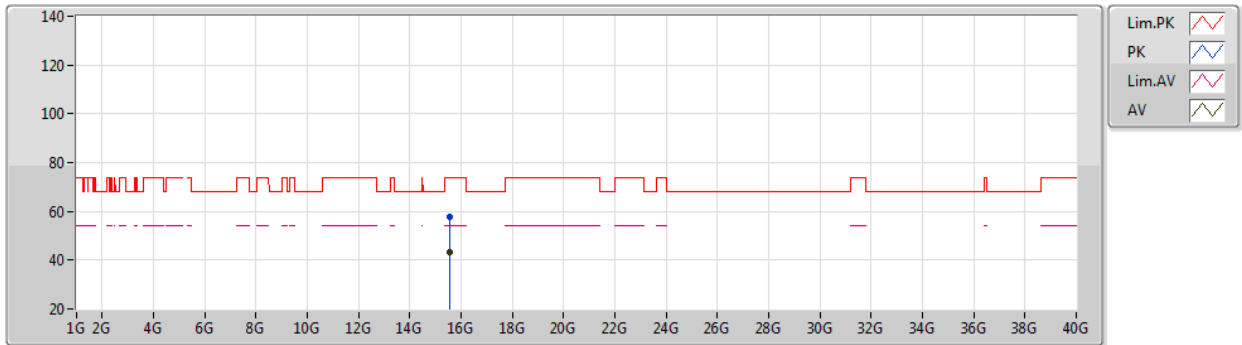
EUT_Z_2TX
Setting 74
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	15.56244G	56.56	74.00	-17.44	43.30	3	Vertical	221	2.82	-	39.24	9.37	35.35	
AV	15.55662G	43.42	54.00	-10.58	30.16	3	Vertical	221	2.82	-	39.24	9.37	35.35	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5190MHz_TX



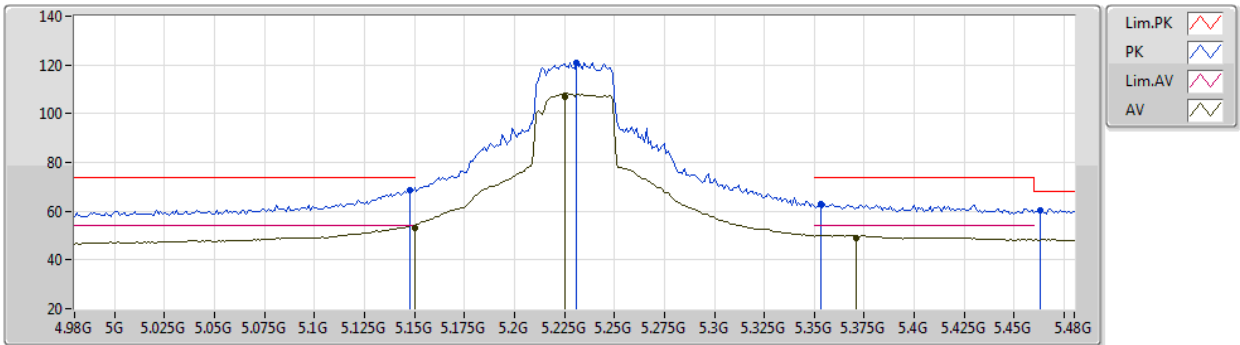
EUT_Z_2TX
Setting 74
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.56034G	57.57	74.00	-16.43	44.31	3	Horizontal	55	2.10	-	39.24	9.37	35.35
AV	15.55884G	43.42	54.00	-10.58	30.16	3	Horizontal	55	2.10	-	39.24	9.37	35.35

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5230MHz_TX



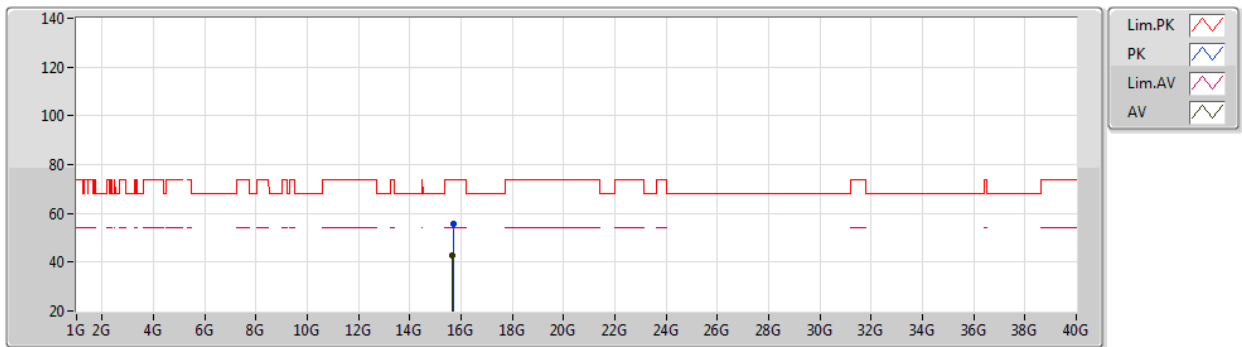
EUT_Z_2TX
Setting 91
04-E-P-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.148G	68.71	74.00	-5.29	63.93	3	Vertical	153	2.25	-	33.05	5.10	33.37
AV	5.15G	53.22	54.00	-0.78	48.43	3	Vertical	153	2.25	-	33.05	5.11	33.37
PK	5.231G	120.64	Inf	-Inf	115.74	3	Vertical	153	2.25	-	33.13	5.15	33.38
AV	5.225G	107.10	Inf	-Inf	102.22	3	Vertical	153	2.25	-	33.12	5.14	33.38
PK	5.353G	63.09	74.00	-10.91	57.91	3	Vertical	153	2.25	-	33.36	5.21	33.39
AV	5.371G	49.18	54.00	-4.82	43.94	3	Vertical	153	2.25	-	33.41	5.22	33.39
PK	5.463G	60.16	68.20	-8.04	54.59	3	Vertical	153	2.25	-	33.69	5.27	33.39

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5230MHz_TX



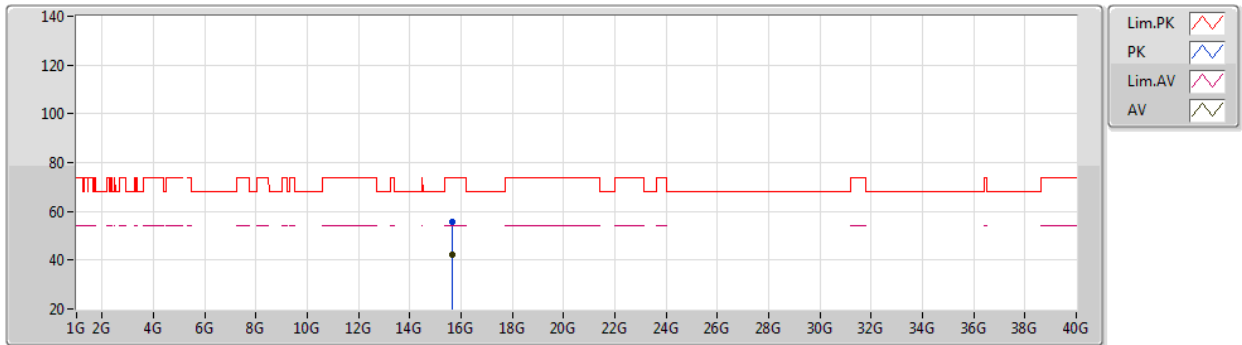
EUT_Z_2TX
Setting 91
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.69618G	55.84	74.00	-18.16	42.60	3	Vertical	3	1.01	-	39.23	9.39	35.38
AV	15.6756G	42.56	54.00	-11.44	29.33	3	Vertical	3	1.01	-	39.23	9.38	35.38

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5230MHz_TX



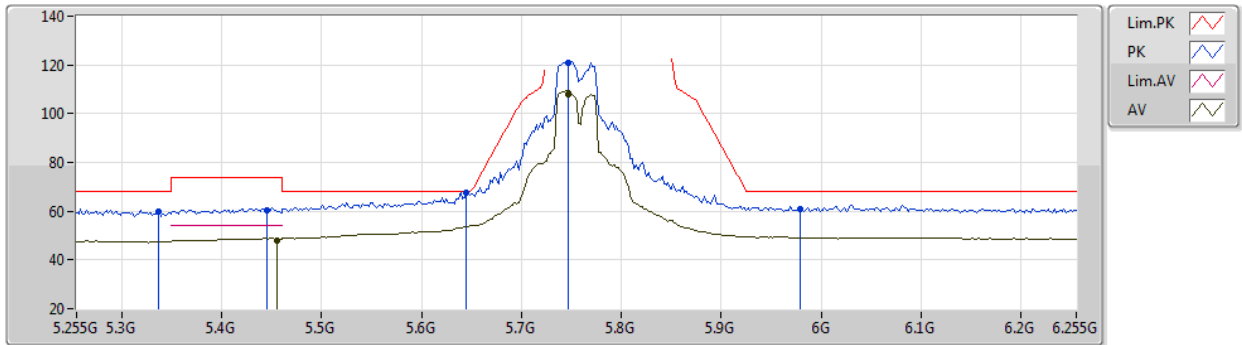
EUT_Z_2TX
Setting 91
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.67644G	55.88	74.00	-18.12	42.65	3	Horizontal	7	1.00	-	39.23	9.38	35.38
AV	15.67518G	42.49	54.00	-11.51	29.26	3	Horizontal	7	1.00	-	39.23	9.38	35.38

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5755MHz_TX



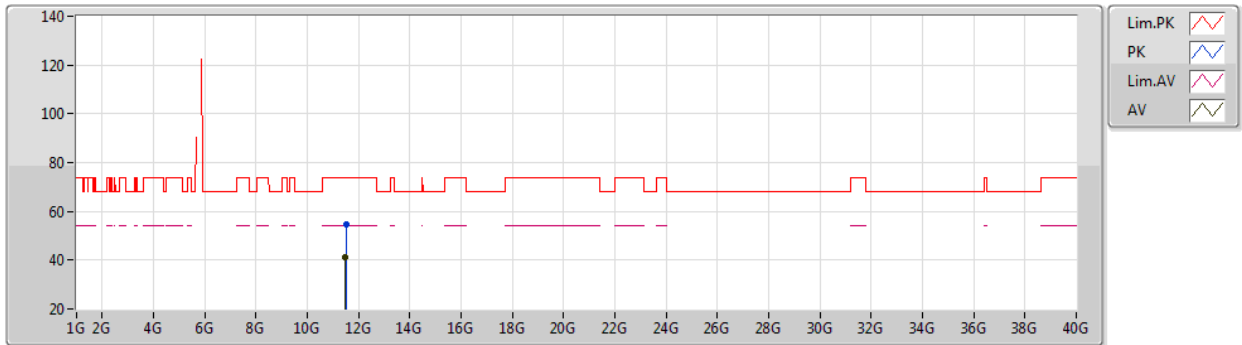
EUT Z_2TX
Setting 103
04-E-P-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.337G	59.78	68.20	-8.42	54.65	3	Vertical	150	1.91	-	33.31	5.20	33.38
PK	5.445G	60.57	74.00	-13.43	55.07	3	Vertical	150	1.91	-	33.63	5.26	33.39
AV	5.455G	47.96	54.00	-6.04	42.43	3	Vertical	150	1.91	-	33.66	5.26	33.39
PK	5.645G	67.73	68.20	-0.47	61.65	3	Vertical	150	1.91	-	34.05	5.40	33.37
PK	5.747G	120.90	Inf	-Inf	114.59	3	Vertical	150	1.91	-	34.19	5.47	33.35
AV	5.747G	108.17	Inf	-Inf	101.86	3	Vertical	150	1.91	-	34.19	5.47	33.35
PK	5.979G	60.85	68.20	-7.35	53.29	3	Vertical	150	1.91	-	35.22	5.65	33.31

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5755MHz_TX



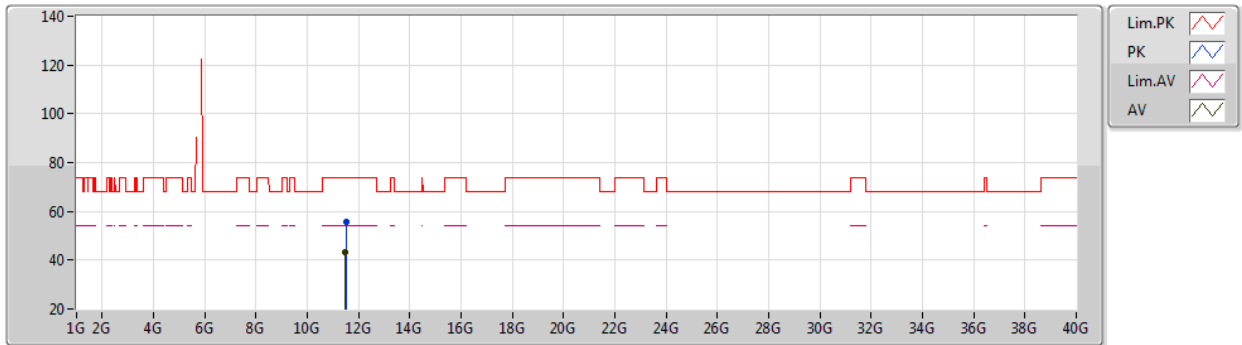
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Setting 103
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.52446G	54.65	74.00	-19.35	42.01	3	Vertical	126	2.50	-	39.44	8.20	35.00
AV	11.49674G	41.10	54.00	-12.90	28.46	3	Vertical	126	2.50	-	39.45	8.18	34.99

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5755MHz_TX



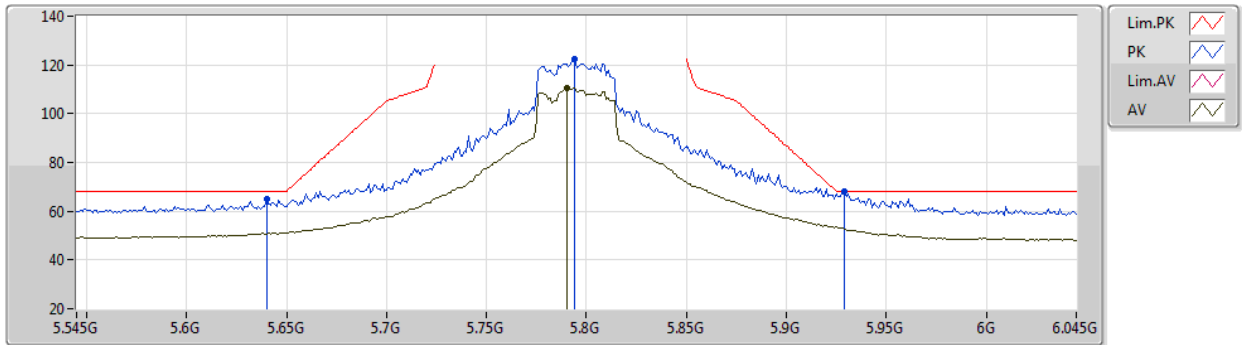
EUT_Z_2TX
Setting 103
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.52104G	55.66	74.00	-18.34	43.02	3	Horizontal	261	1.24	-	39.44	8.20	35.00
AV	11.49866G	43.14	54.00	-10.86	30.50	3	Horizontal	261	1.24	-	39.45	8.18	34.99

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5795MHz_TX



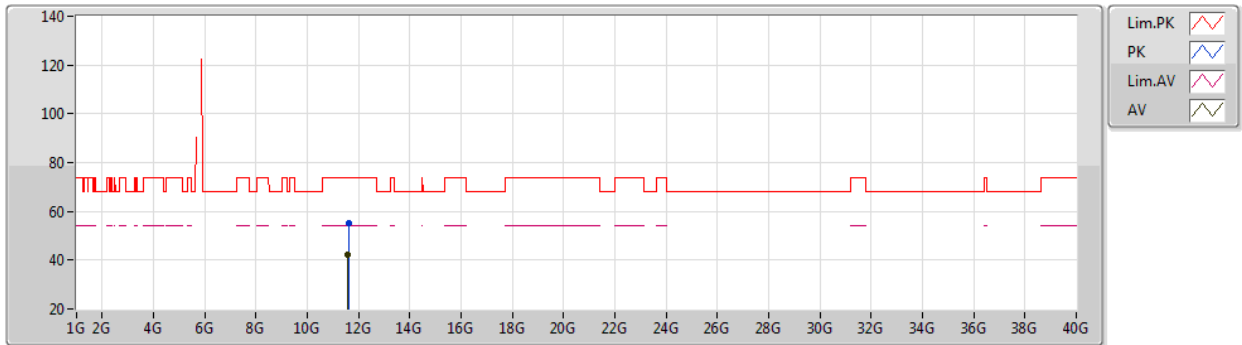
EUT_Z_2TX
Setting 111
06-F-5-5-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.64G	65.12	68.20	-3.08	59.44	3	Vertical	310	2.21	-	31.64	5.84	31.80
PK	5.794G	122.53	Inf	-Inf	116.19	3	Vertical	310	2.21	-	32.08	5.99	31.73
AV	5.79G	110.60	Inf	-Inf	104.28	3	Vertical	310	2.21	-	32.06	5.99	31.73
PK	5.929G	67.99	68.20	-0.21	61.31	3	Vertical	310	2.21	-	32.40	5.94	31.66

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

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5795MHz_TX



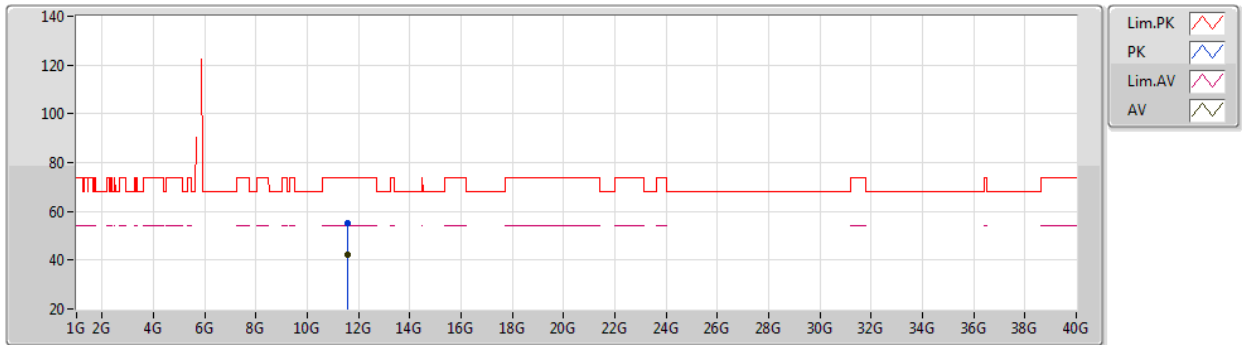
EUT_Z_2TX
Setting 111
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.60386G	55.30	74.00	-18.70	41.82	3	Vertical	279	2.82	-	39.49	8.16	34.17	
AV	11.58574G	42.18	54.00	-11.82	28.67	3	Vertical	279	2.82	-	39.52	8.16	34.17	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

29/06/2020

5795MHz_TX



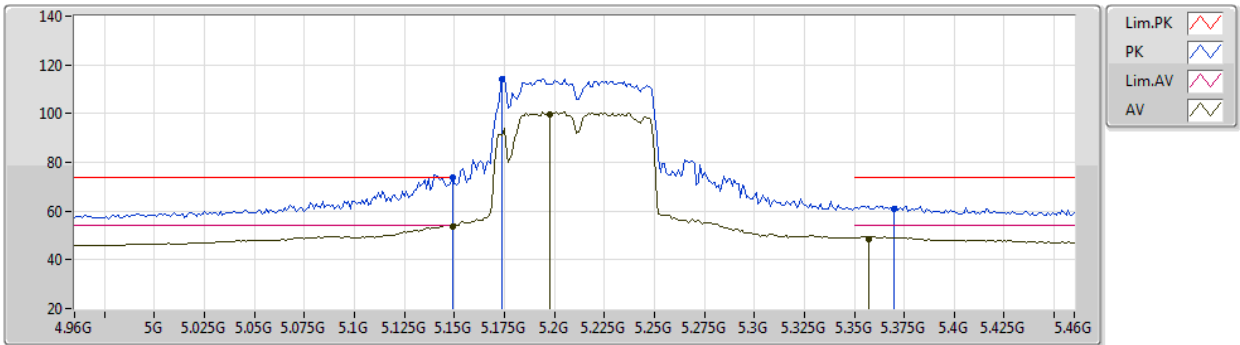
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Setting 111
06-F-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	11.59366G	55.09	74.00	-18.91	41.59	3	Horizontal	101	1.23	-	39.51	8.16	34.17
AV	11.5831G	42.18	54.00	-11.82	28.67	3	Horizontal	101	1.23	-	39.53	8.15	34.17

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

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5210MHz_TX



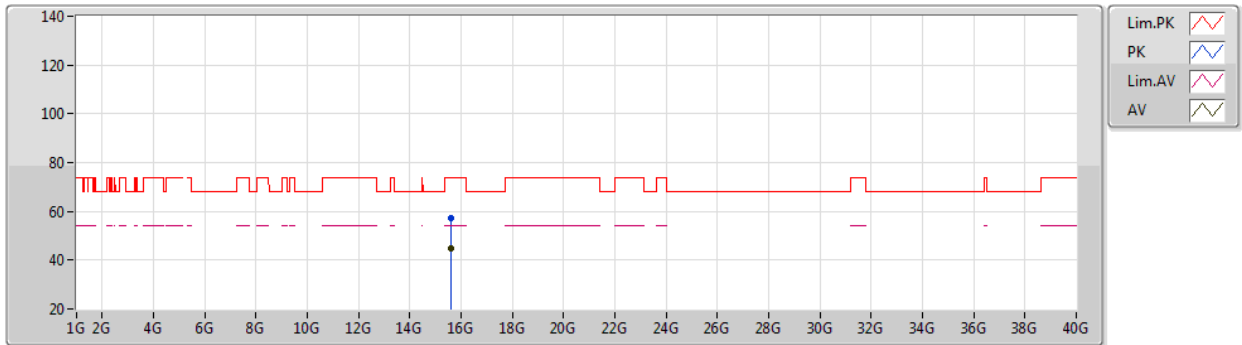
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Setting 74
04-E-P-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.149G	73.80	74.00	-0.20	69.02	3	Vertical	154	2.26	-	33.05	5.10	33.37
AV	5.149G	53.58	54.00	-0.42	48.80	3	Vertical	154	2.26	-	33.05	5.10	33.37
PK	5.174G	114.15	Inf	-Inf	109.34	3	Vertical	154	2.26	-	33.07	5.12	33.38
AV	5.198G	99.53	Inf	-Inf	94.68	3	Vertical	154	2.26	-	33.10	5.13	33.38
PK	5.37G	61.10	74.00	-12.90	55.86	3	Vertical	154	2.26	-	33.41	5.22	33.39
AV	5.357G	48.52	54.00	-5.48	43.33	3	Vertical	154	2.26	-	33.37	5.21	33.39

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2020

5210MHz_TX



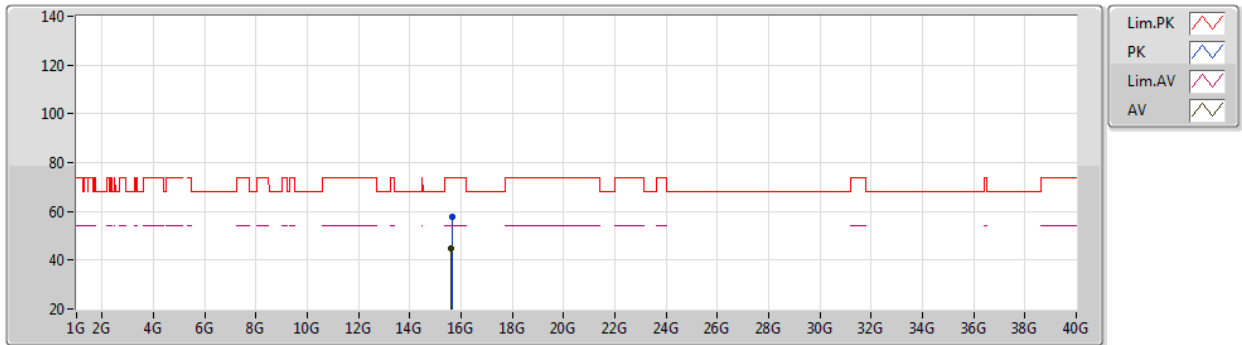
EUT_Z_2TX
Setting 74
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.61626G	57.01	74.00	-16.99	43.76	3	Vertical	306	2.41	-	39.24	9.38	35.37
AV	15.61572G	44.93	54.00	-9.07	31.68	3	Vertical	306	2.41	-	39.24	9.38	35.37

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2020

5210MHz_TX



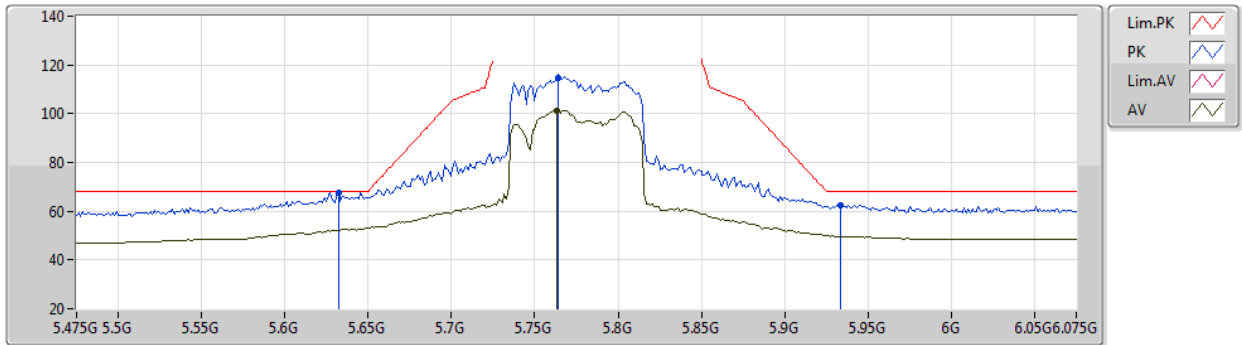
EUT_Z_2TX
Setting 74
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	15.63774G	57.94	74.00	-16.06	44.69	3	Horizontal	25	2.10	-	39.24	9.38	35.37
AV	15.61602G	44.97	54.00	-9.03	31.72	3	Horizontal	25	2.10	-	39.24	9.38	35.37

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2020

5775MHz_TX



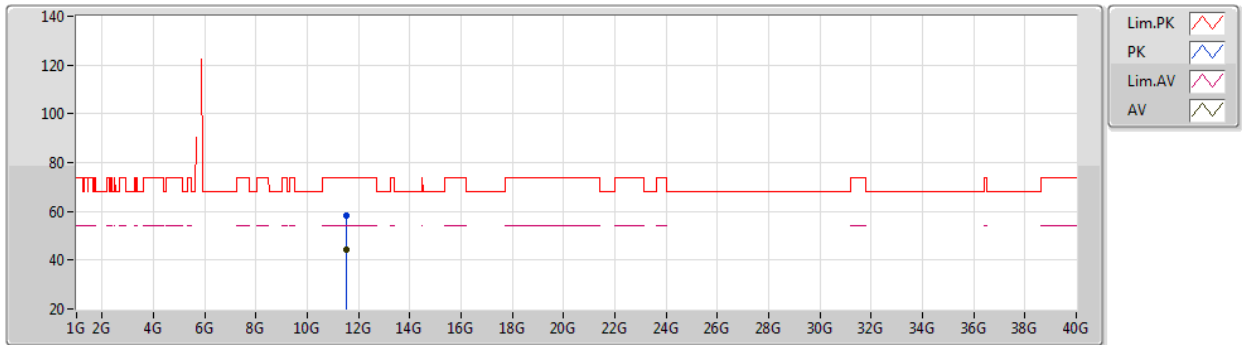
EUT_Z_2TX
Setting 90
04-E-P-2-10

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	5.6322G	67.69	68.20	-0.51	61.64	3	Vertical	288	2.13	-	34.03	5.39	33.37
PK	5.7642G	114.83	Inf	-Inf	108.47	3	Vertical	288	2.13	-	34.23	5.48	33.35
AV	5.763G	101.05	Inf	-Inf	94.69	3	Vertical	288	2.13	-	34.23	5.48	33.35
PK	5.9334G	62.32	68.20	-5.88	55.00	3	Vertical	288	2.13	-	35.03	5.61	33.32

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2020

5775MHz_TX



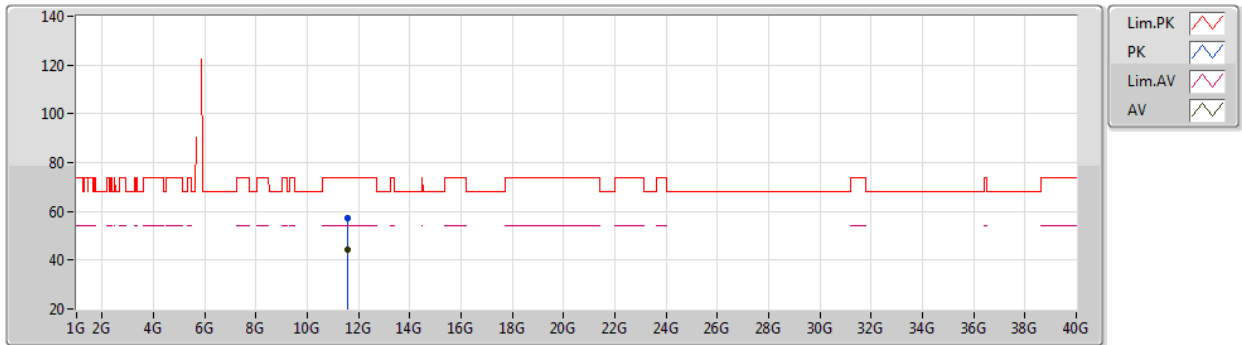
EUT_Z_2TX
Setting 90
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.54082G	58.05	74.00	-15.95	45.41	3	Vertical	269	1.72	-	39.44	8.21	35.01	
AV	11.54724G	44.14	54.00	-9.86	31.49	3	Vertical	269	1.72	-	39.44	8.22	35.01	

802.11ax HEW80-BF_Nss1,(MCS0)_2TX

29/06/2020

5775MHz_TX



EUT_Z_2TX
Setting 90
04-E-P-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	11.55858G	57.15	74.00	-16.85	44.51	3	Horizontal	127	1.97	-	39.43	8.22	35.01	
AV	11.5497G	44.09	54.00	-9.91	31.44	3	Horizontal	127	1.97	-	39.44	8.22	35.01	