



RADIO TEST REPORT

FCC ID : 2AXJ4WPA7617
Equipment : AV1000 Gigabit Powerline ac Wi-Fi Extender
Brand Name : tp-link
Model Name : TL-WPA7517, TL-WPA7617
Applicant : TP-Link Corporation Limited
Room 901, 9/F. , New East Ocean Centre, 9 Science
Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Room 901, 9/F. , New East Ocean Centre, 9 Science
Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 29, 2021, and testing was started from Feb. 04, 2021 and completed on Mar. 22, 2021. We, Sporton International Inc. Hsinchu 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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History of this test report

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

Page Number : 3 of 29
Issued Date : Jun. 07, 2021
Report Version : 01



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)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

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

Note:

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

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
	2.4GHz	5GHz					2.4GHz	5GHz
1	1	2	TP-LINK	Antenna -7517	PCB	N/A	1	1
2	2	1	TP-LINK	Antenna -7517	PCB	N/A	1	1

Note: The above information was declared by manufacturer.

For 2.4GHz WLAN function**IEEE 802.11b/g/n mode (2TX/2RX):**

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

Port 1 and port 2 could transmit/receive simultaneously.

For 5GHz WLAN function**IEEE 802.11a/n/ac mode (2TX/2RX):**

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

Port 1 and port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.934	0.3	5.24m	300
802.11ac VHT20	0.76	1.19	5.1m	300
802.11ac VHT40	0.885	0.53	2.48m	1k
802.11ac VHT80	0.668	1.75	2.235m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Function	<input type="checkbox"/>	Outdoor P2M	<input checked="" type="checkbox"/>	Indoor P2M
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/>	Client
Test Software Version	DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	Description
TL-WPA7517	All the models are identical; different models serve as marketing strategy.
TL-WPA7617	

Note 1: From the above models, model: TL-WPA7517 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



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 15.407
- ♦ 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 Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Li	23.5-24.1 / 56-59	Mar. 03, 2021~ Mar. 11, 2021
Radiated <Above 1GHz>	03CH02-CB	RJ Huang	20.4-21.4 / 55-57	Mar. 04, 2021~ Mar. 22, 2021
Radiated <Below 1GHz and Co-location>	03CH06-CB	RJ Huang	21.1-22.5 / 55-57	Mar. 04, 2021~ Mar. 22, 2021
AC Conduction	CO01-CB	Ryo Fan	21~22 / 60~61	Feb. 04, 2021



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 (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 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	0.4%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	40
5200MHz	46
5240MHz	36
5745MHz	46
5785MHz	46
5825MHz	46
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	36
5200MHz	46
5240MHz	36
5745MHz	46
5785MHz	46
5825MHz	46
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	29
5230MHz	36
5755MHz	43
5795MHz	46
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	29
5775MHz	35

Note:

- ♦ Evaluated VHT20/VHT40/VHT80 mode only, due to similar modulation. The power setting of HT20/HT40 mode are the same or lower than VHT20/VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT PLC is Idle mode (without data transmit)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
The EUT can be placed in Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Unwanted Emissions <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz
2	EUT in Z axis + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT can be placed in Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Unwanted Emissions <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA110401 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

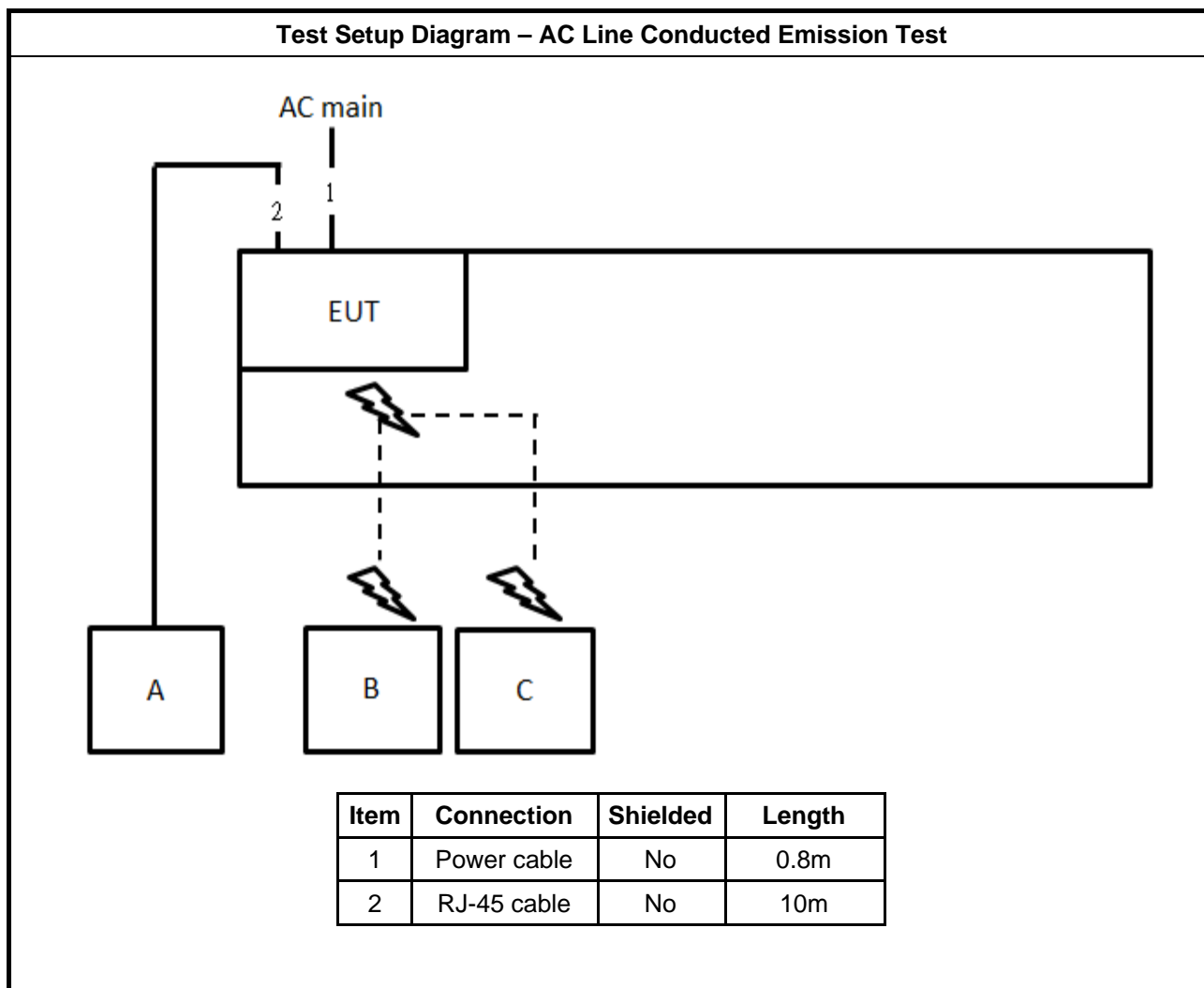
For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A

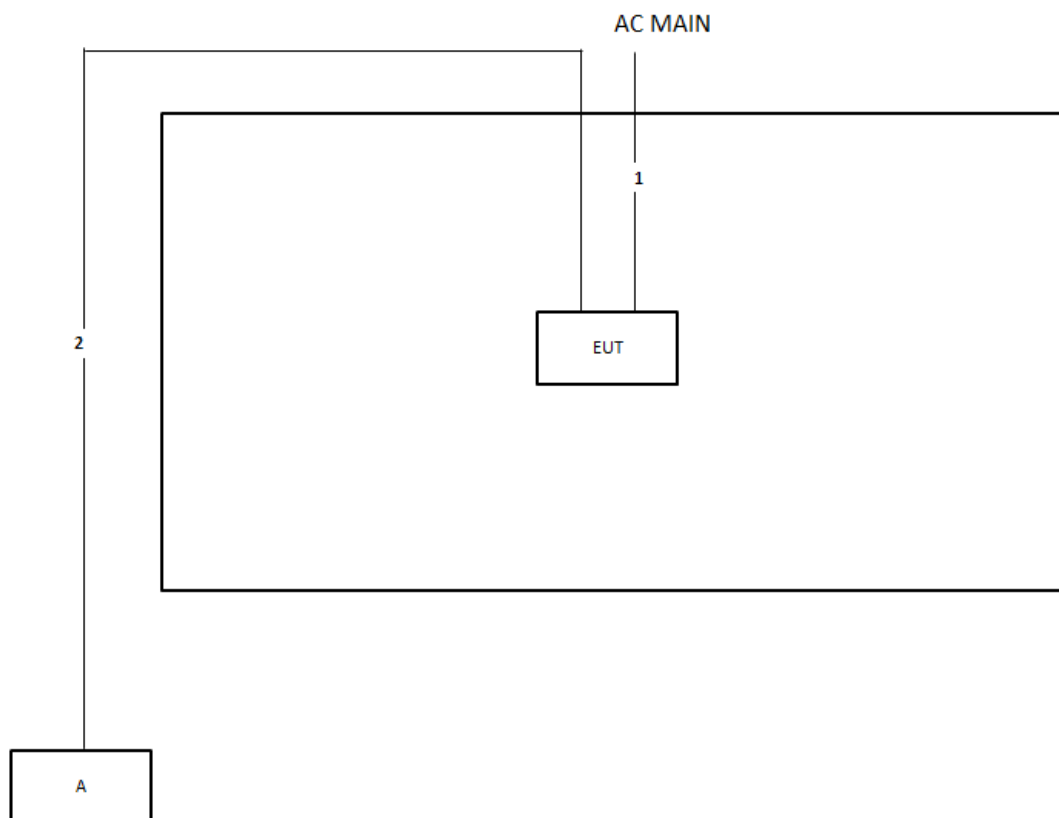
For Radiated and RF Conducted:

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



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

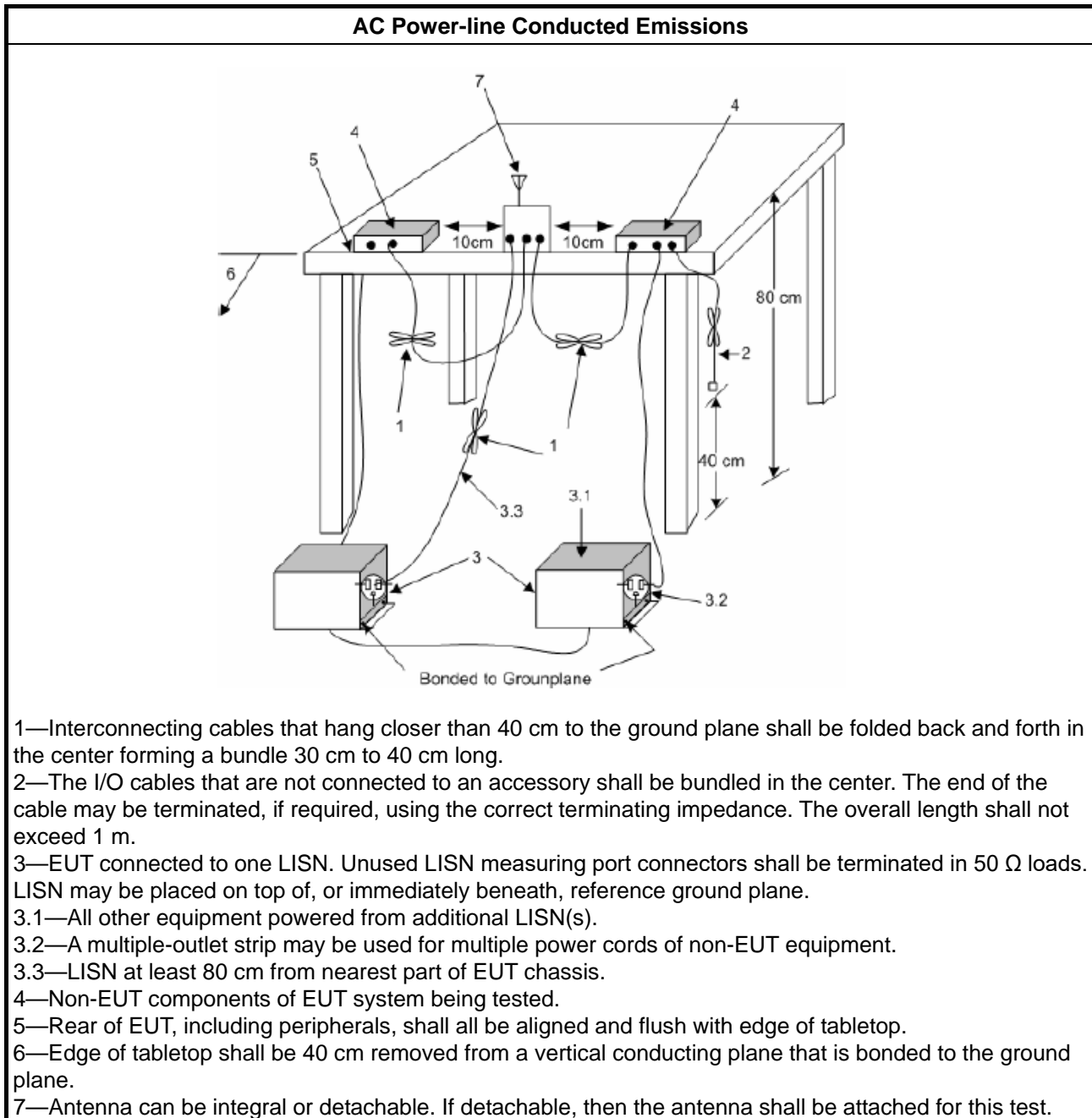
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<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: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

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.

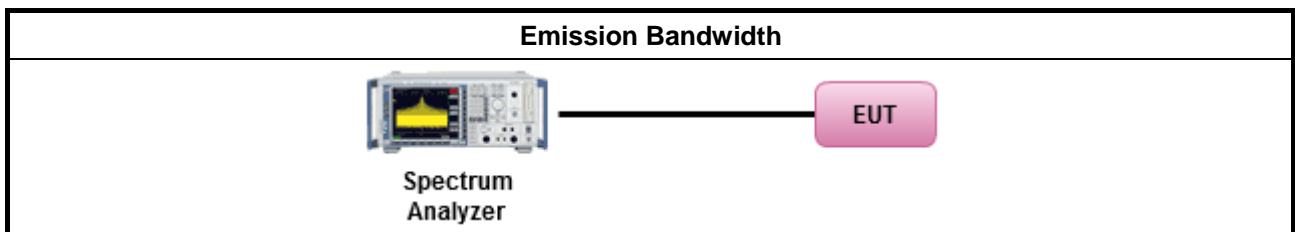
3.2.2 Measuring Instruments

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.	

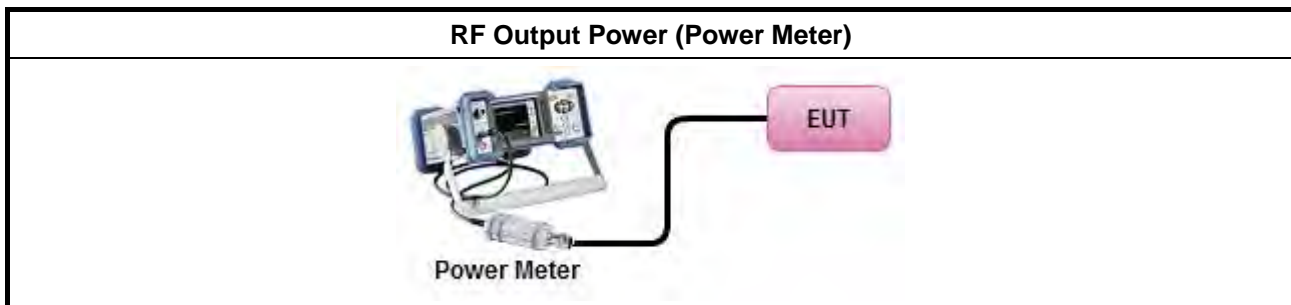
3.3.2 Measuring Instruments

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 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-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 the 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.	



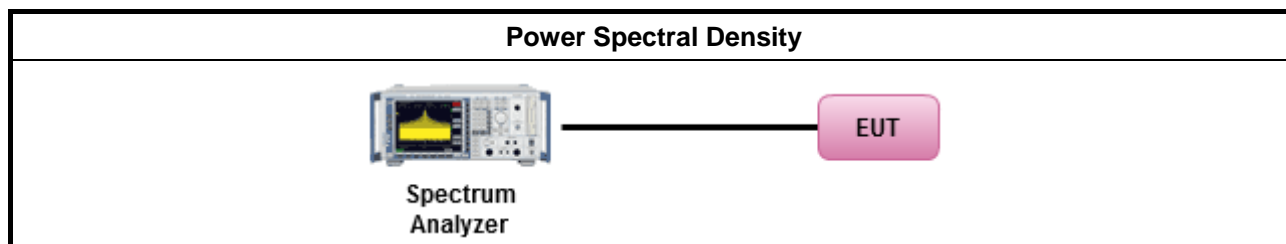
3.4.2 Measuring Instruments

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, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none">For conducted measurement.	
<ul style="list-style-type: none">If the EUT supports multiple transmit chains using options given below:	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none">If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter 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).

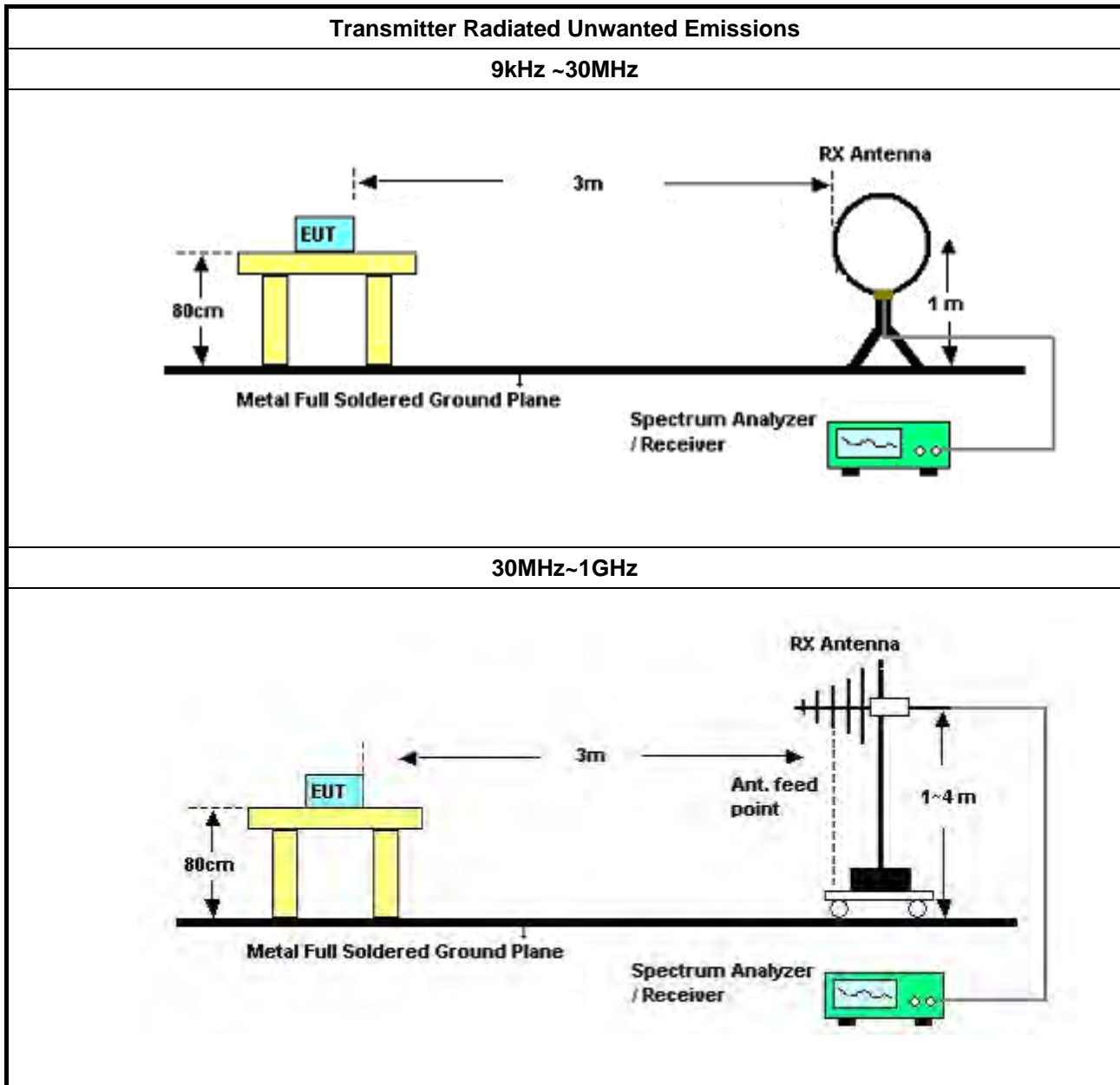
3.5.2 Measuring Instruments

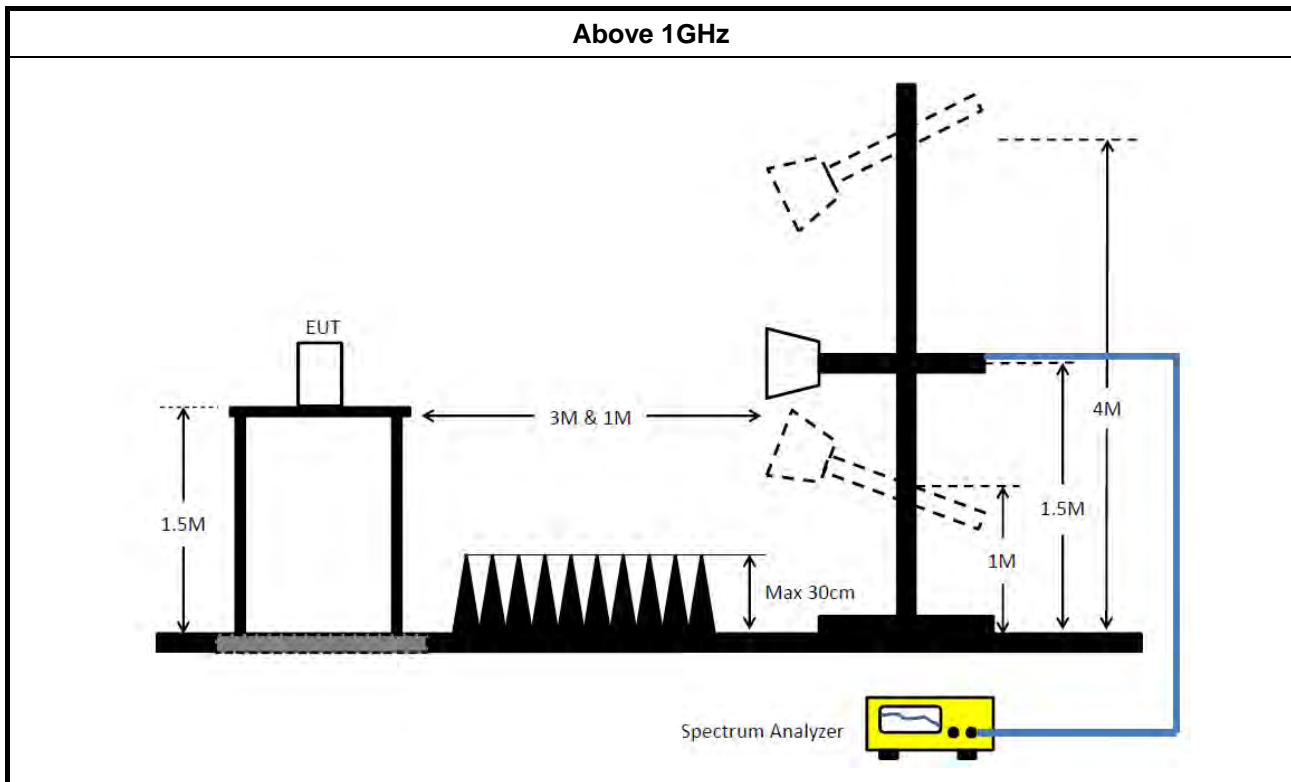
Refer a test equipment and calibration data table in this test report.

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 ≥ 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 (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(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 10th 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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	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. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~ 18GHz 3m	Mar. 28, 2020	Mar. 27, 2021	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Signal analyzer	Agilent	N9010A	MY52220519	10kHz~44GHz	Mar. 24, 2020	Mar. 23, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~ 18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 02, 2020	Aug. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 22, 2020	Jul. 21, 2021	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 05, 2020	Nov. 04, 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-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	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)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 02, 2020	Sep. 01, 2021	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 02, 2020	Sep. 01, 2021	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



Conducted Emissions at Powerline

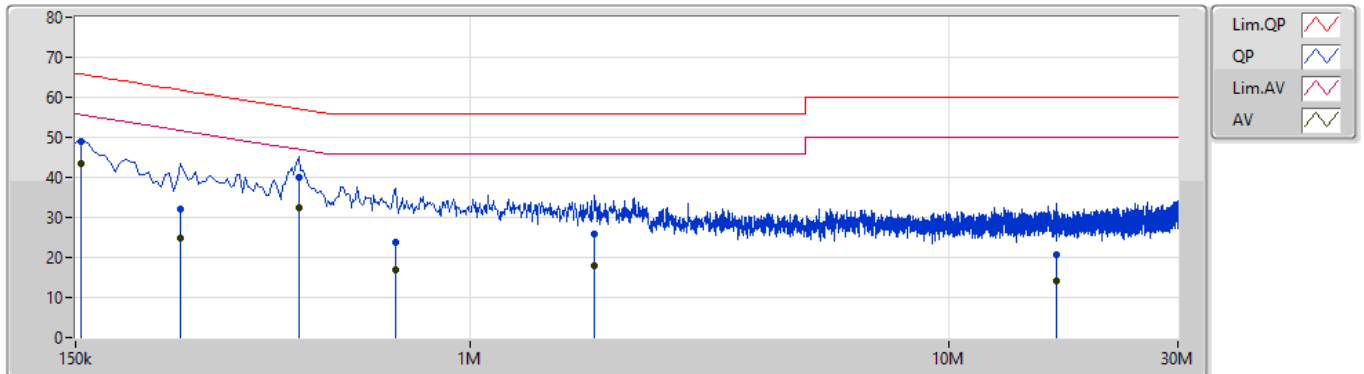
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	154.5k	43.36	55.75	-12.39	Line

Mode 1

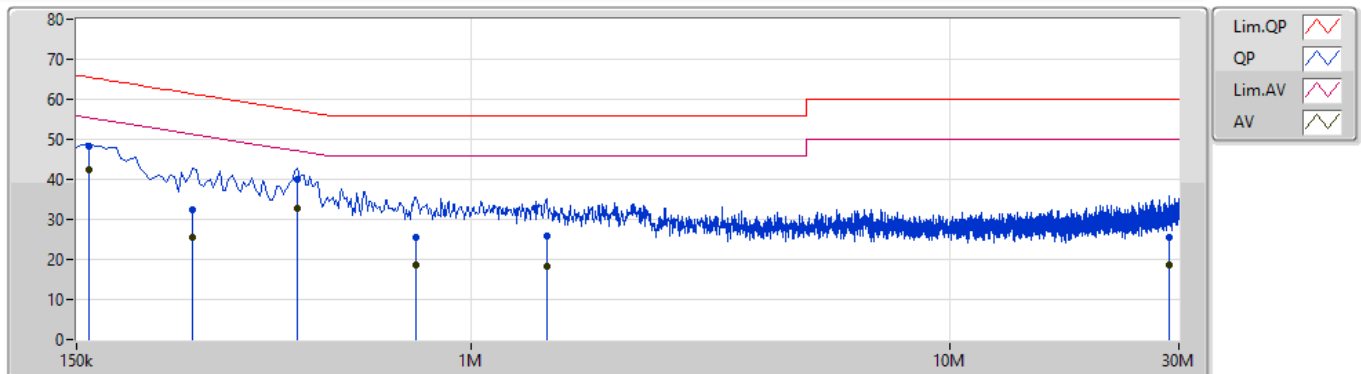
04/02/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	48.99	65.75	-16.76	9.89	Line	-	39.10	0.05	0.03	9.81			
AV	154.5k	43.36	55.75	-12.39	9.89	Line	"Worst"	33.47	0.05	0.03	9.81			
QP	249k	32.14	61.79	-29.65	9.88	Line	-	22.26	0.04	0.03	9.81			
AV	249k	24.72	51.79	-27.07	9.88	Line	-	14.84	0.04	0.03	9.81			
QP	438k	40.06	57.11	-17.05	9.89	Line	-	30.17	0.04	0.03	9.82			
AV	438k	32.50	47.11	-14.61	9.89	Line	-	22.61	0.04	0.03	9.82			
QP	699k	23.70	56.00	-32.30	9.92	Line	-	13.78	0.05	0.04	9.83			
AV	699k	16.86	46.00	-29.14	9.92	Line	-	6.94	0.05	0.04	9.83			
QP	1.82M	25.80	56.00	-30.20	9.95	Line	-	15.85	0.06	0.07	9.82			
AV	1.82M	18.00	46.00	-28.00	9.95	Line	-	8.05	0.06	0.07	9.82			
QP	16.706M	20.74	60.00	-39.26	10.43	Line	-	10.31	0.22	0.27	9.94			
AV	16.706M	14.05	50.00	-35.95	10.43	Line	-	3.62	0.22	0.27	9.94			

Mode 1

04/02/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159k	48.16	65.52	-17.36	9.88	Neutral	-	38.28	0.04	0.03	9.81			
AV	159k	42.25	55.52	-13.27	9.88	Neutral	"Worst"	32.37	0.04	0.03	9.81			
QP	262.5k	32.46	61.35	-28.89	9.88	Neutral	-	22.58	0.04	0.03	9.81			
AV	262.5k	25.48	51.35	-25.87	9.88	Neutral	-	15.60	0.04	0.03	9.81			
QP	433.5k	40.16	57.19	-17.03	9.89	Neutral	-	30.27	0.04	0.03	9.82			
AV	433.5k	32.71	47.19	-14.48	9.89	Neutral	-	22.82	0.04	0.03	9.82			
QP	766.5k	25.61	56.00	-30.39	9.92	Neutral	-	15.69	0.05	0.04	9.83			
AV	766.5k	18.47	46.00	-27.53	9.92	Neutral	-	8.55	0.05	0.04	9.83			
QP	1.442M	25.73	56.00	-30.27	9.95	Neutral	-	15.78	0.07	0.06	9.82			
AV	1.442M	18.16	46.00	-27.84	9.95	Neutral	-	8.21	0.07	0.06	9.82			
QP	28.631M	25.58	60.00	-34.42	10.65	Neutral	-	14.93	0.32	0.31	10.02			
AV	28.631M	18.71	50.00	-31.29	10.65	Neutral	-	8.06	0.32	0.31	10.02			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	56.85M	36.36M	36M4D7W	23.37M	16.77M
802.11ac VHT20_Nss1,(MCS0)_2TX	55.2M	37.2M	37M2D7W	26.31M	17.91M
802.11ac VHT40_Nss1,(MCS0)_2TX	82.2M	39.06M	39M1D7W	41.52M	36.42M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.36M	75.6M	75M6D7W	80.76M	75.36M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	34.44M	34M4D7W	14.64M	26.34M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.16M	36.36M	36M4D7W	15M	28.41M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.22M	72.78M	72M8D7W	27.6M	48.36M
802.11ac VHT80_Nss1,(MCS0)_2TX	74.88M	77.52M	77M5D7W	71.28M	75.96M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

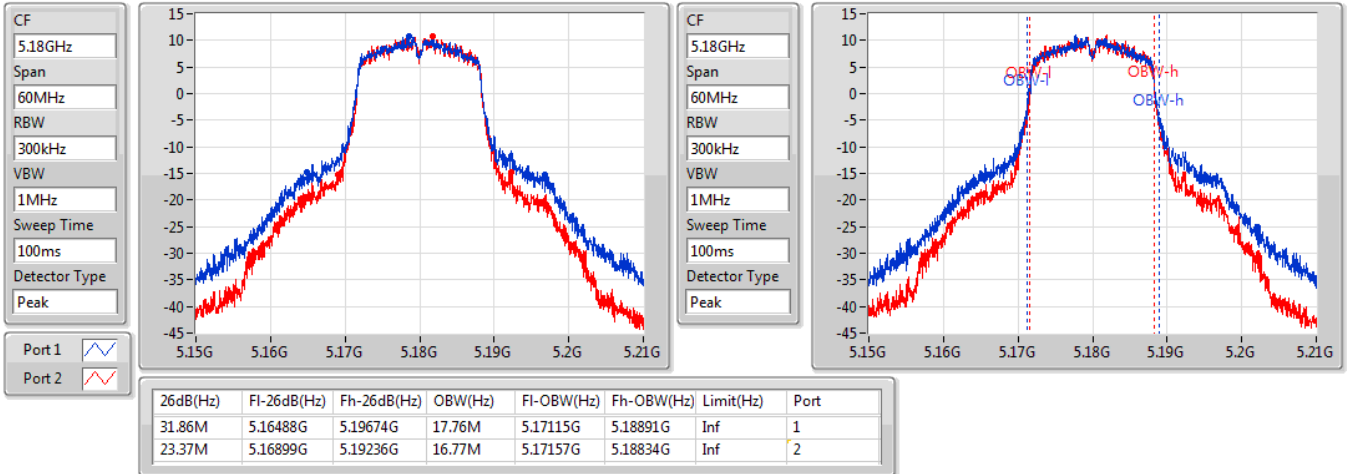
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	31.86M	17.76M	23.37M	16.77M
5200MHz	Pass	Inf	56.85M	36.36M	49.26M	32.91M
5240MHz	Pass	Inf	35.07M	19.32M	25.83M	16.95M
5745MHz	Pass	500k	16.32M	30.57M	14.79M	26.34M
5785MHz	Pass	500k	14.64M	30.69M	15.99M	28.23M
5825MHz	Pass	500k	16.29M	34.44M	16.35M	31.5M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	37.11M	19.41M	28.8M	18.09M
5200MHz	Pass	Inf	55.2M	37.2M	49.92M	34.62M
5240MHz	Pass	Inf	34.59M	19.14M	26.31M	17.91M
5745MHz	Pass	500k	15M	31.56M	15.87M	28.41M
5785MHz	Pass	500k	16.08M	31.38M	17.16M	28.53M
5825MHz	Pass	500k	15.63M	36.36M	15.66M	33.6M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	41.94M	36.42M	41.52M	36.42M
5230MHz	Pass	Inf	82.2M	39.06M	57M	37.02M
5755MHz	Pass	500k	30.6M	56.64M	35.22M	48.36M
5795MHz	Pass	500k	27.6M	72.78M	34.44M	69.06M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.36M	75.6M	80.76M	75.36M
5775MHz	Pass	500k	71.28M	77.52M	74.88M	75.96M

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

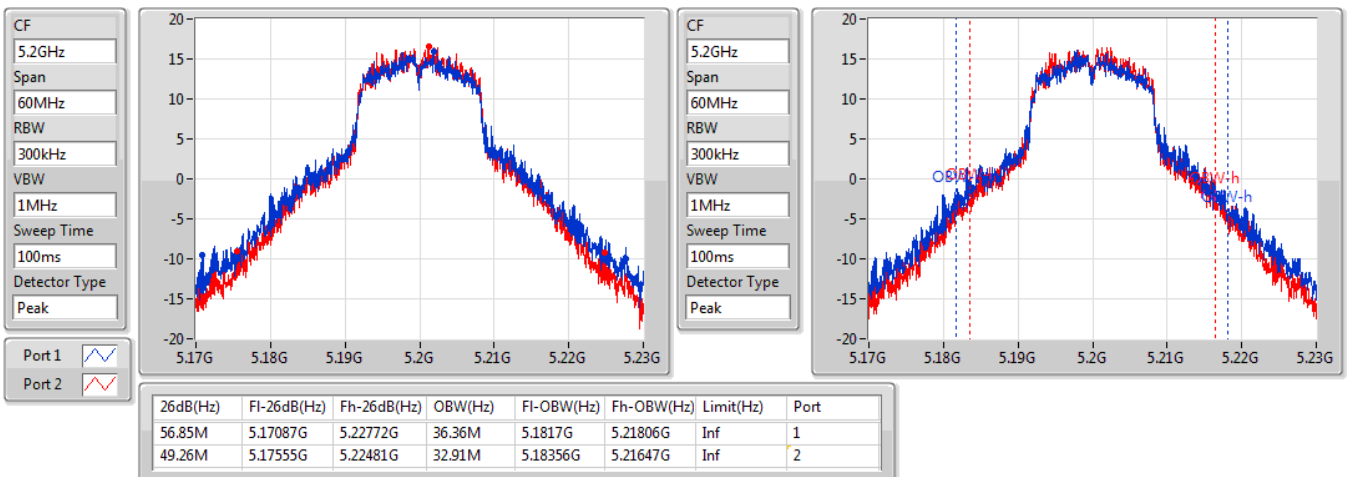
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

05/03/2021

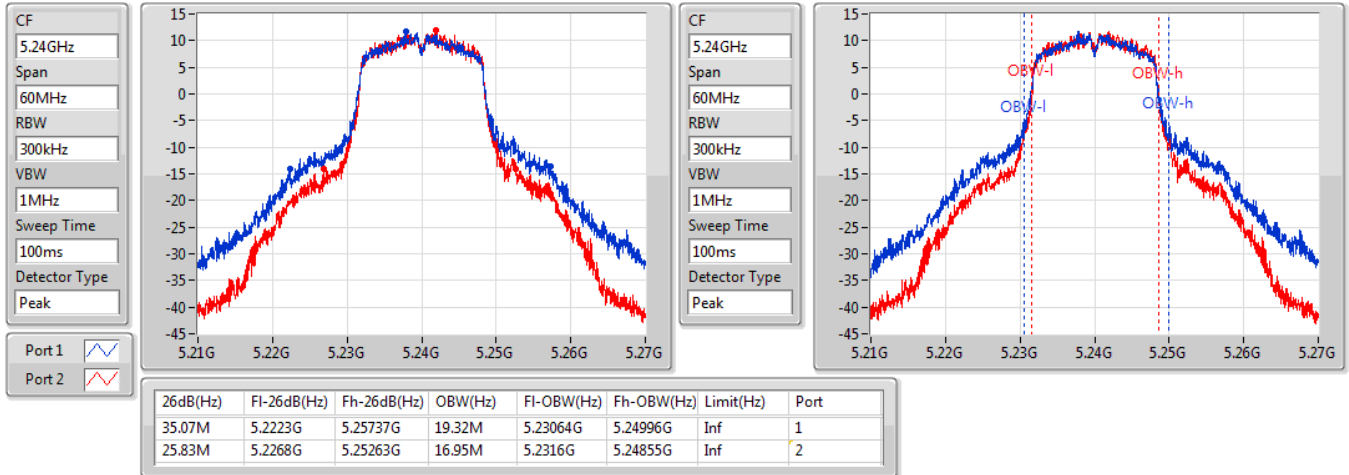

802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

05/03/2021

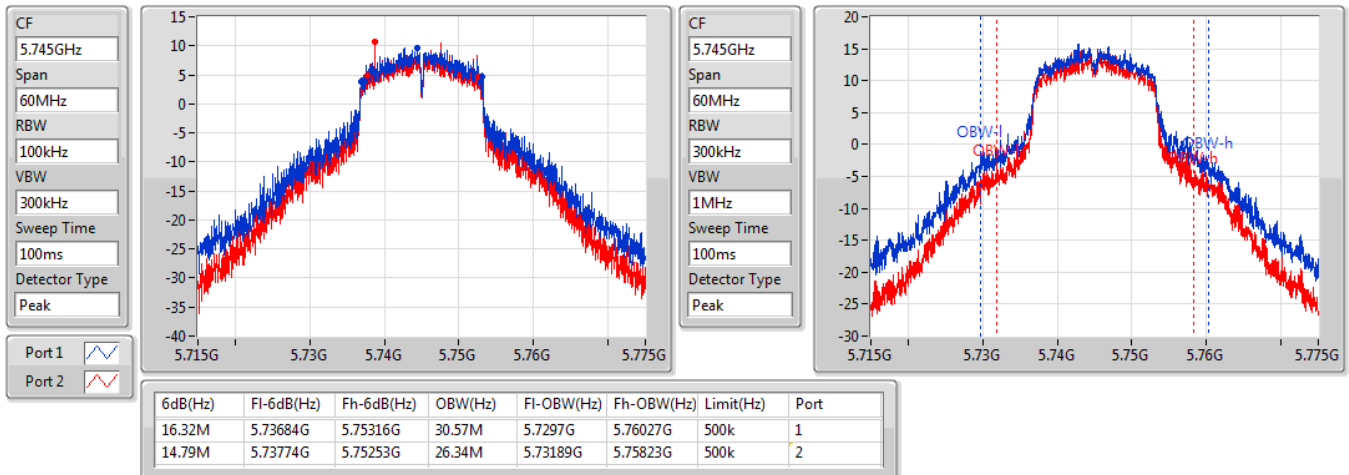


802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

05/03/2021

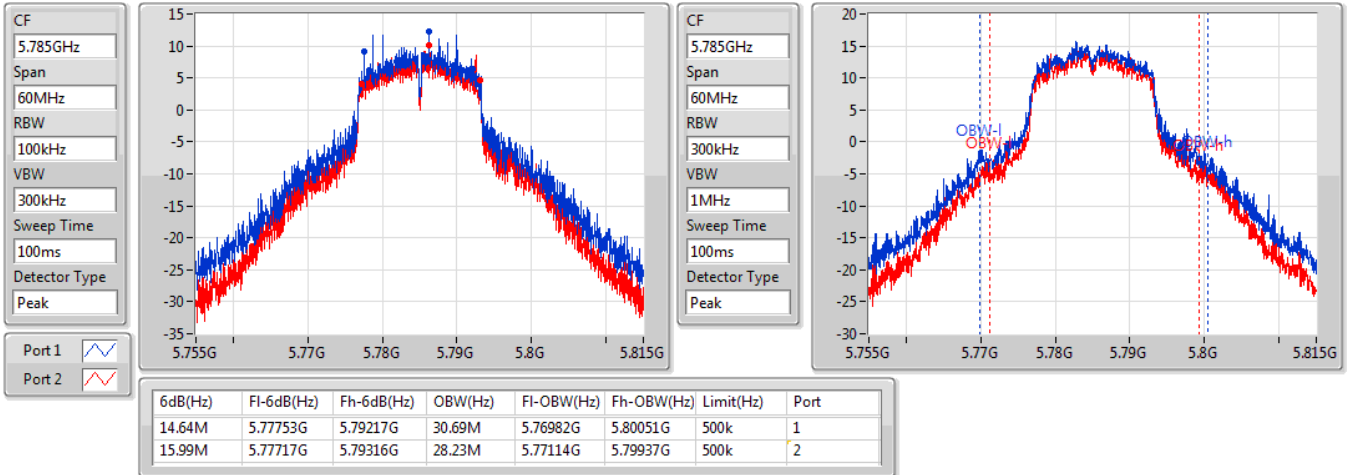

802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

05/03/2021



802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

05/03/2021

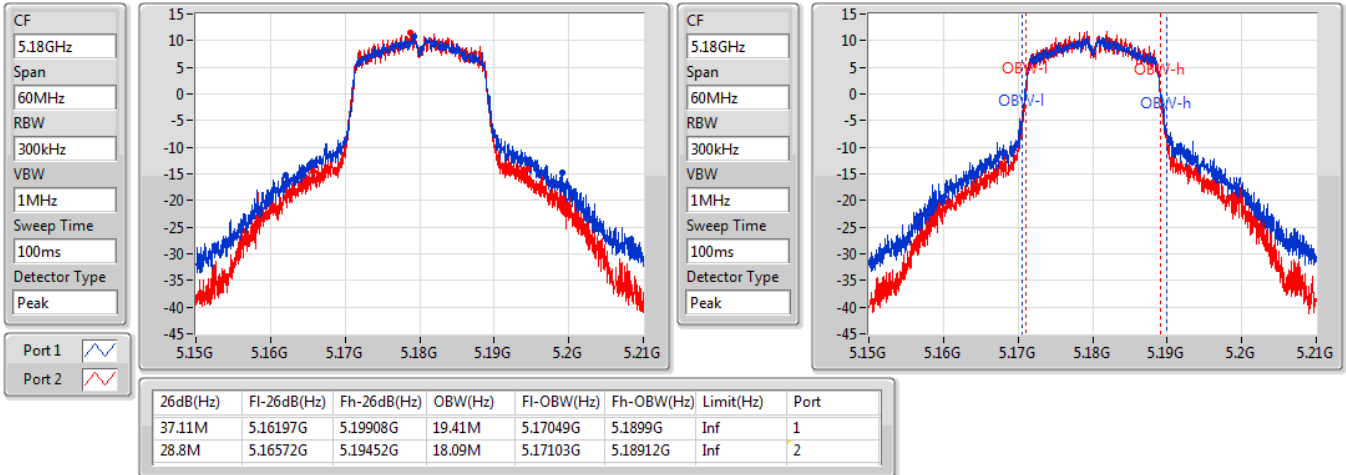

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

05/03/2021

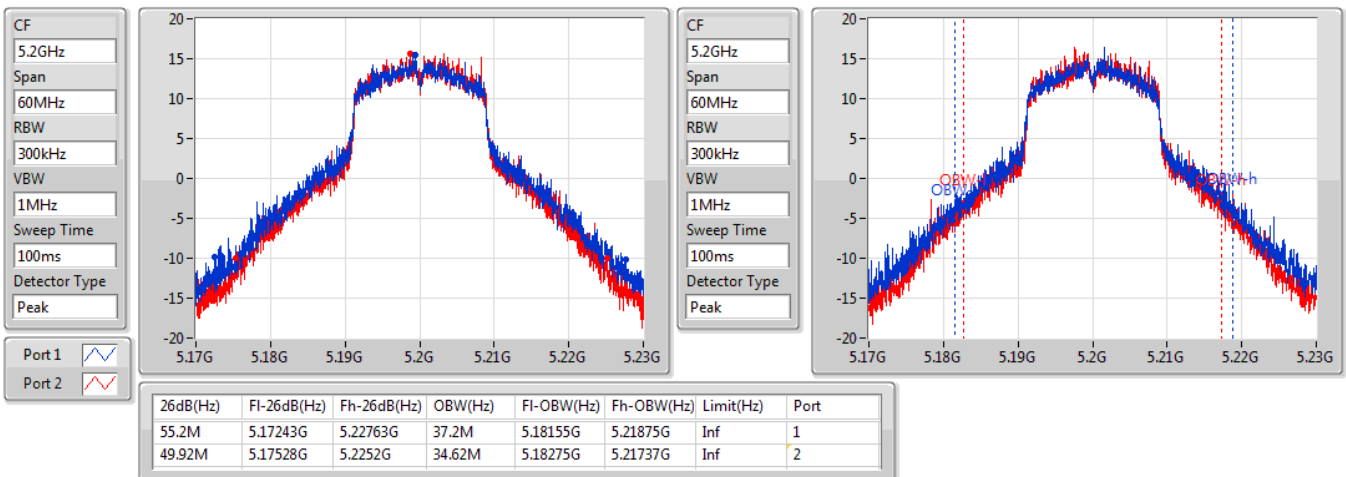


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

05/03/2021

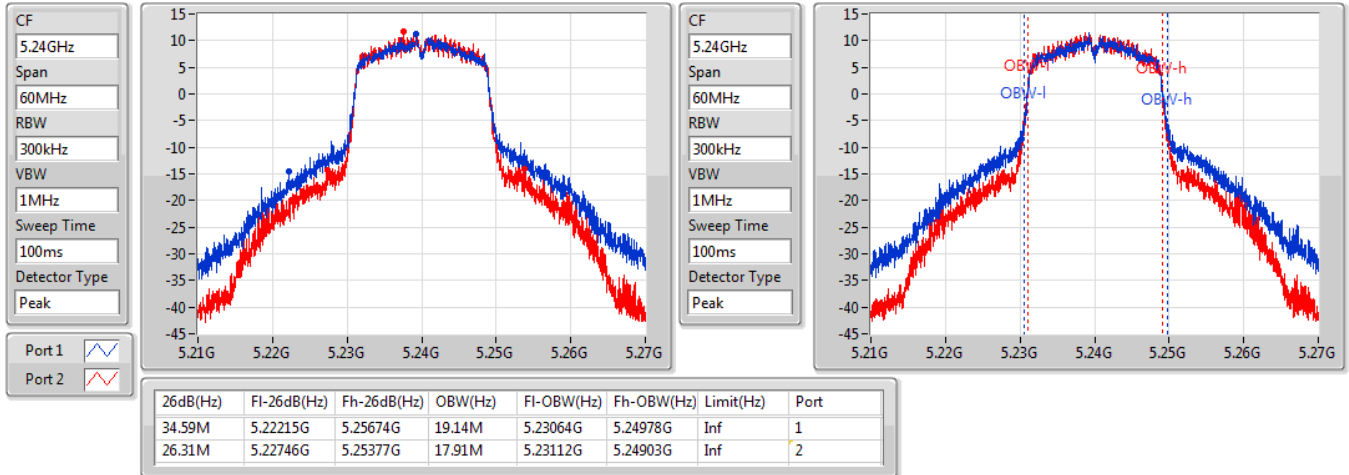

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

05/03/2021

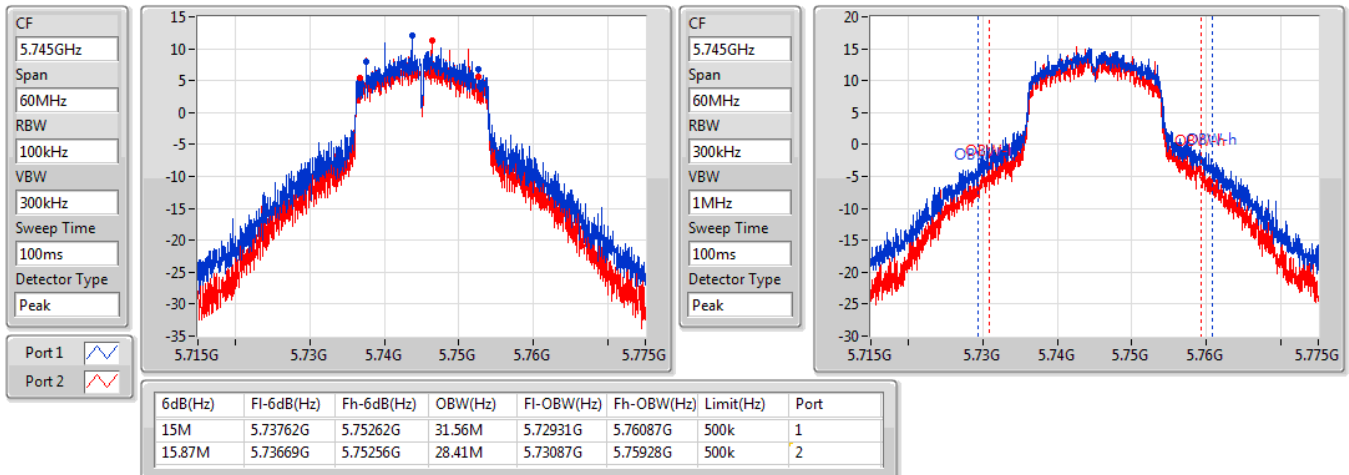


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

05/03/2021

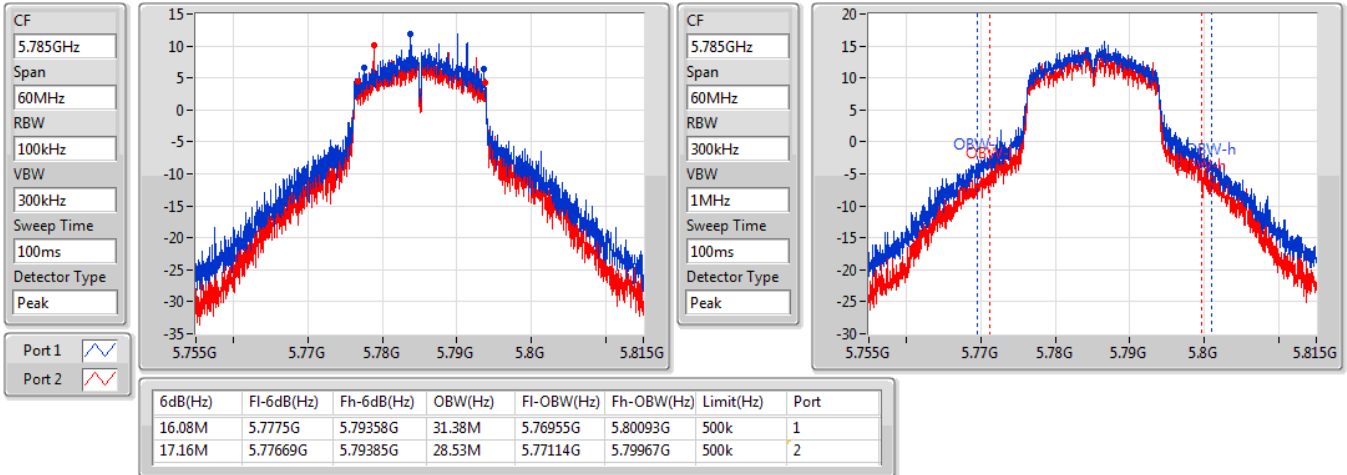

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

05/03/2021

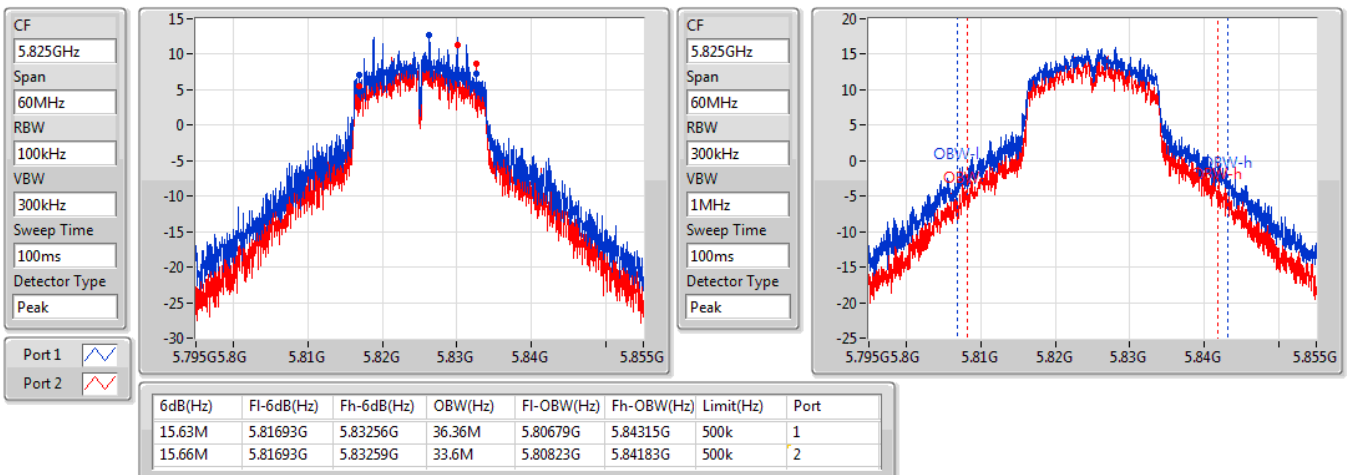


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

05/03/2021

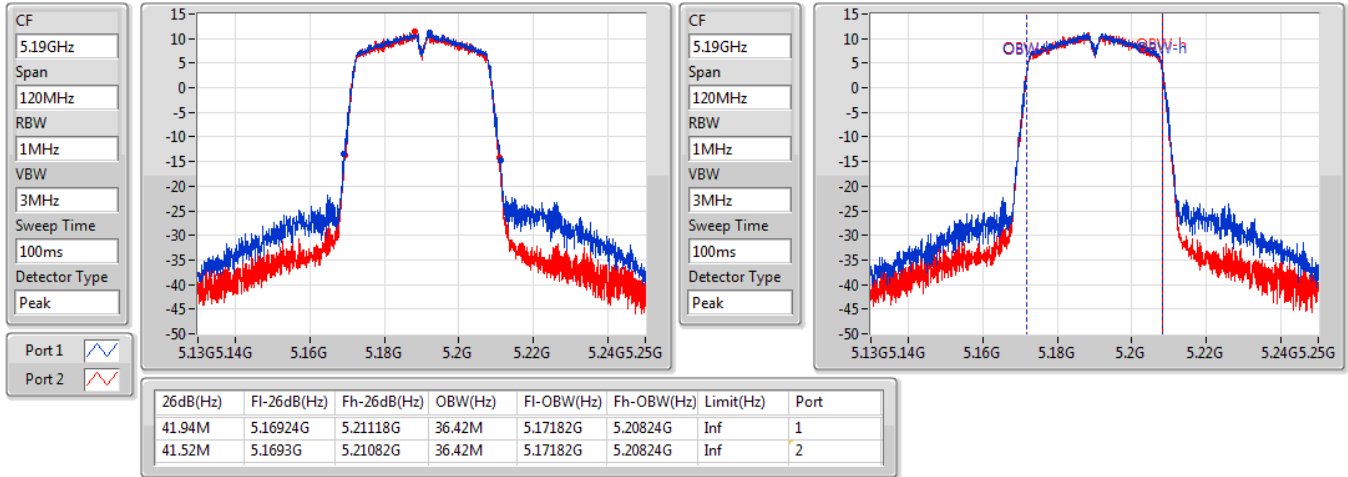

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

05/03/2021

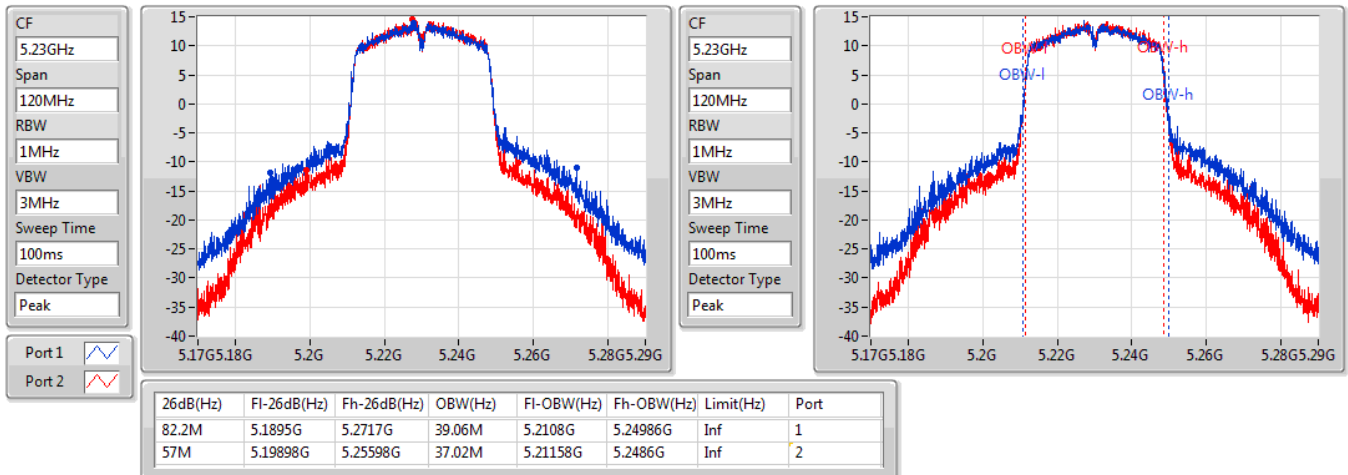


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

05/03/2021

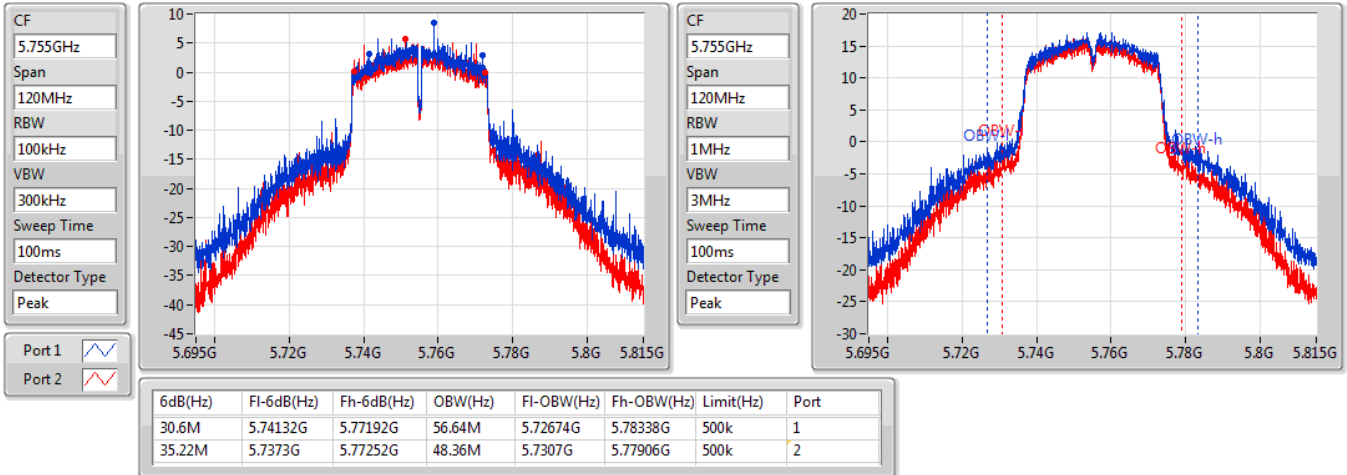

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

05/03/2021

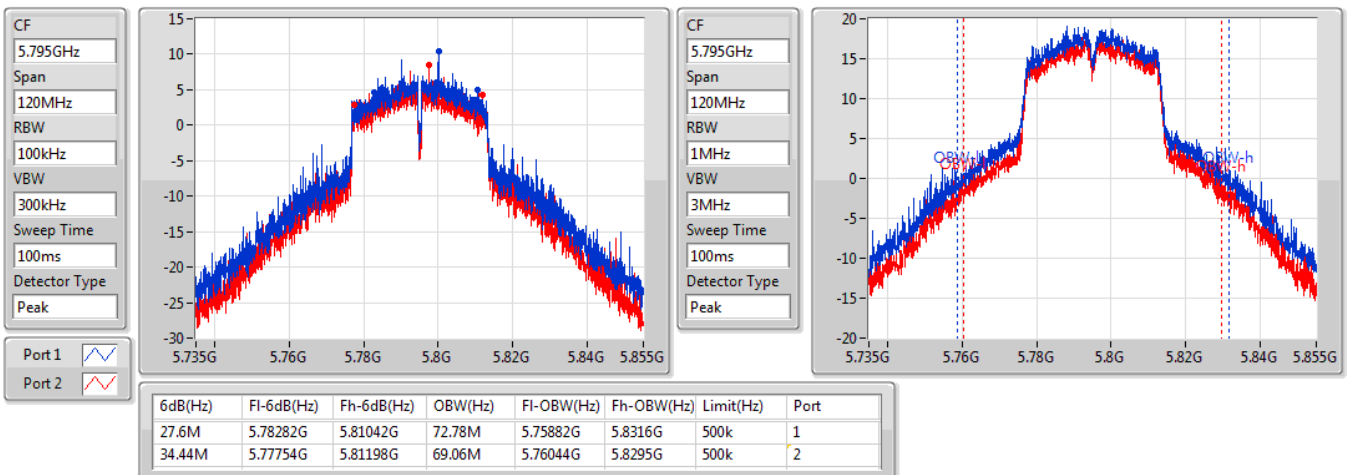


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

05/03/2021


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

05/03/2021

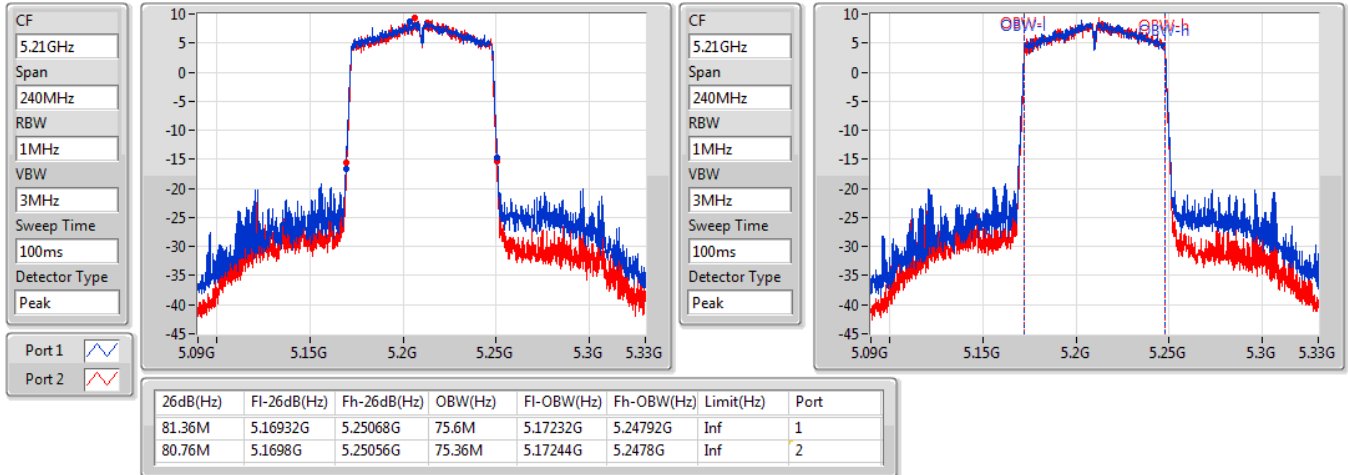


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

05/03/2021

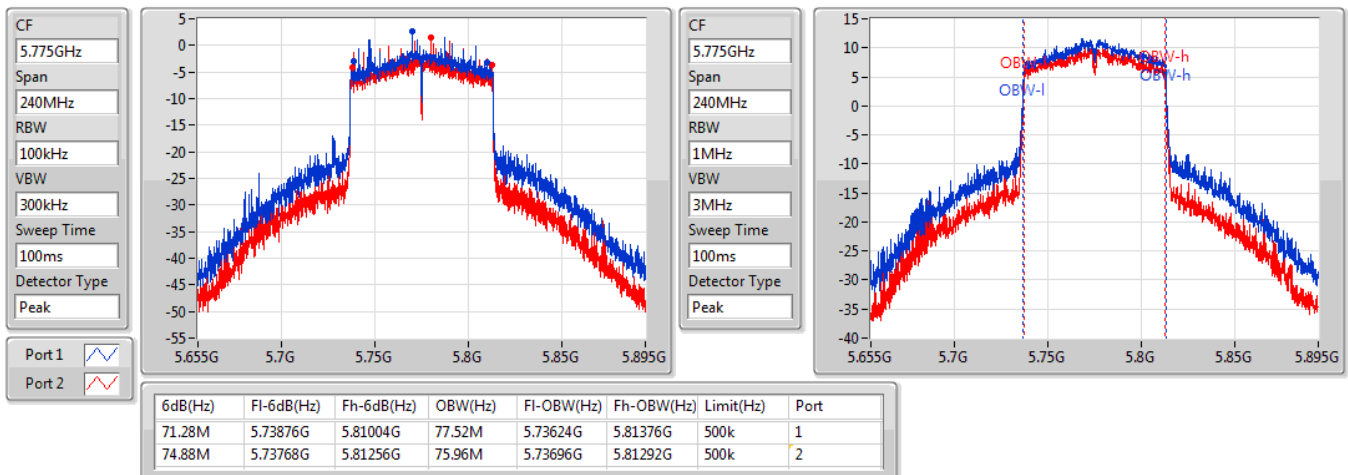


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

05/03/2021



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	26.16	0.41305
802.11ac VHT20_Nss1,(MCS0)_2TX	25.58	0.36141
802.11ac VHT40_Nss1,(MCS0)_2TX	21.58	0.14388
802.11ac VHT80_Nss1,(MCS0)_2TX	19.09	0.08110
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.35	0.34277
802.11ac VHT20_Nss1,(MCS0)_2TX	25.34	0.34198
802.11ac VHT40_Nss1,(MCS0)_2TX	25.47	0.35237
802.11ac VHT80_Nss1,(MCS0)_2TX	21.30	0.13490

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.00	19.98	19.89	22.95	30.00
5200MHz	Pass	1.00	23.03	23.27	26.16	30.00
5240MHz	Pass	1.00	18.78	18.62	21.71	30.00
5745MHz	Pass	1.00	22.55	21.60	25.11	30.00
5785MHz	Pass	1.00	22.46	21.13	24.86	30.00
5825MHz	Pass	1.00	22.95	21.62	25.35	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	1.00	18.35	18.18	21.28	30.00
5200MHz	Pass	1.00	22.50	22.64	25.58	30.00
5240MHz	Pass	1.00	18.20	18.09	21.16	30.00
5745MHz	Pass	1.00	22.39	21.56	25.01	30.00
5785MHz	Pass	1.00	22.31	21.15	24.78	30.00
5825MHz	Pass	1.00	22.97	21.57	25.34	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	1.00	15.98	15.43	18.72	30.00
5230MHz	Pass	1.00	18.68	18.46	21.58	30.00
5755MHz	Pass	1.00	21.76	20.70	24.27	30.00
5795MHz	Pass	1.00	23.01	21.84	25.47	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	1.00	16.52	15.60	19.09	30.00
5775MHz	Pass	1.00	18.92	17.56	21.30	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	13.71
802.11ac VHT20_Nss1,(MCS0)_2TX	12.96
802.11ac VHT40_Nss1,(MCS0)_2TX	4.86
802.11ac VHT80_Nss1,(MCS0)_2TX	0.53
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.09
802.11ac VHT20_Nss1,(MCS0)_2TX	10.78
802.11ac VHT40_Nss1,(MCS0)_2TX	6.98
802.11ac VHT80_Nss1,(MCS0)_2TX	1.39

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)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.01	5.87	5.55	8.68	17.00
5200MHz	Pass	4.01	10.70	10.94	13.71	17.00
5240MHz	Pass	4.01	6.68	6.60	9.61	17.00
5745MHz	Pass	4.01	7.19	6.63	9.92	30.00
5785MHz	Pass	4.01	8.15	7.12	10.59	30.00
5825MHz	Pass	4.01	8.72	7.46	11.09	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	4.01	6.12	5.94	8.97	17.00
5200MHz	Pass	4.01	9.93	10.08	12.96	17.00
5240MHz	Pass	4.01	4.91	4.73	7.75	17.00
5745MHz	Pass	4.01	7.68	6.95	10.24	30.00
5785MHz	Pass	4.01	7.70	6.82	10.13	30.00
5825MHz	Pass	4.01	8.33	7.49	10.78	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	4.01	0.28	-0.71	2.69	17.00
5230MHz	Pass	4.01	2.02	1.73	4.86	17.00
5755MHz	Pass	4.01	1.99	0.83	4.39	30.00
5795MHz	Pass	4.01	4.85	3.61	6.98	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	4.01	-2.14	-2.62	0.53	17.00
5775MHz	Pass	4.01	-0.79	-2.60	1.39	30.00

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

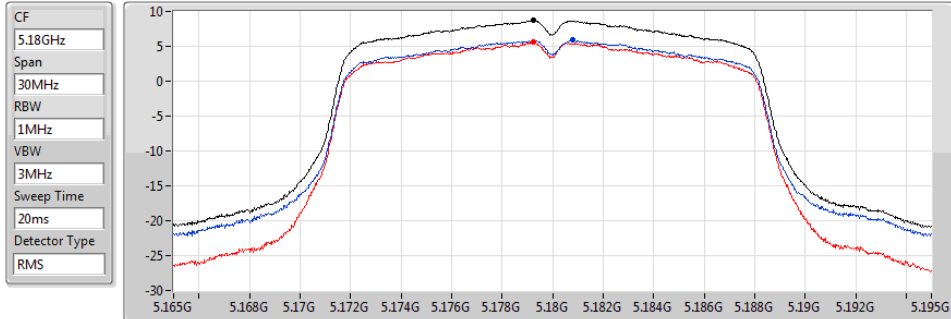
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

05/03/2021



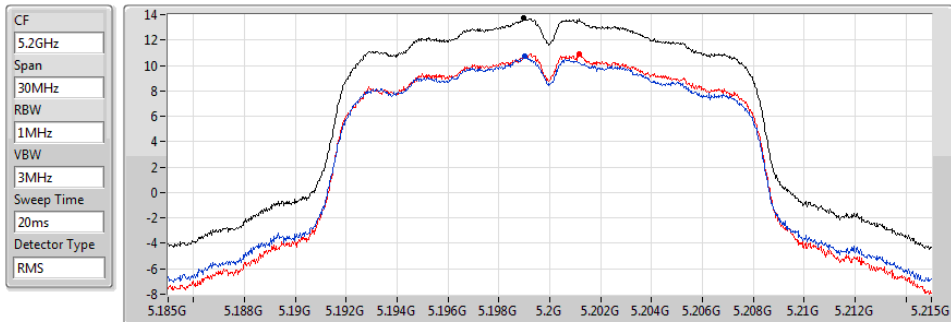
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.68	8.68	5.87	5.55

802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

05/03/2021



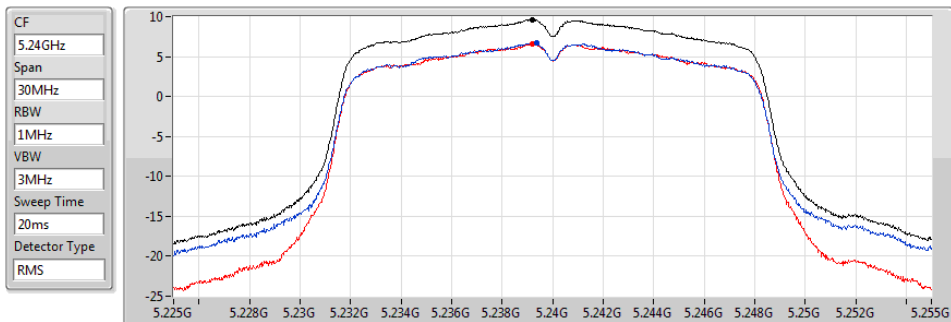
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
13.71	13.71	10.70	10.94

802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

05/03/2021



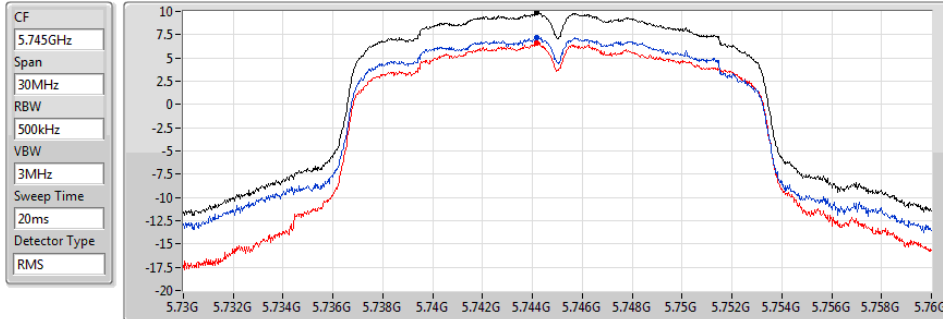
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.61	9.61	6.68	6.60

802.11a_Nss1,(6Mbps)_2TX

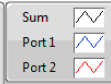
PSD

5745MHz

05/03/2021



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.92	9.92	7.19	6.63

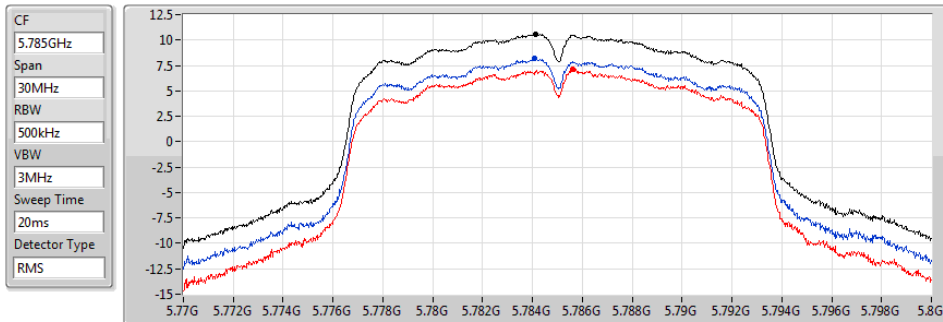


802.11a_Nss1,(6Mbps)_2TX

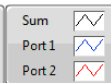
PSD

5785MHz

05/03/2021



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.59	10.59	8.15	7.12

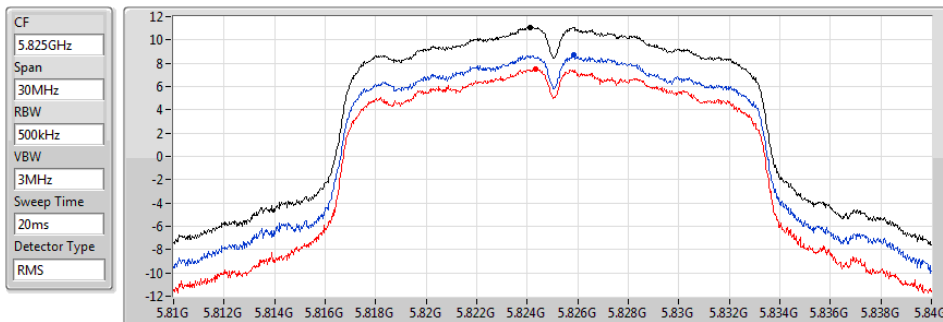


802.11a_Nss1,(6Mbps)_2TX

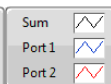
PSD

5825MHz

05/03/2021



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.09	11.09	8.72	7.46

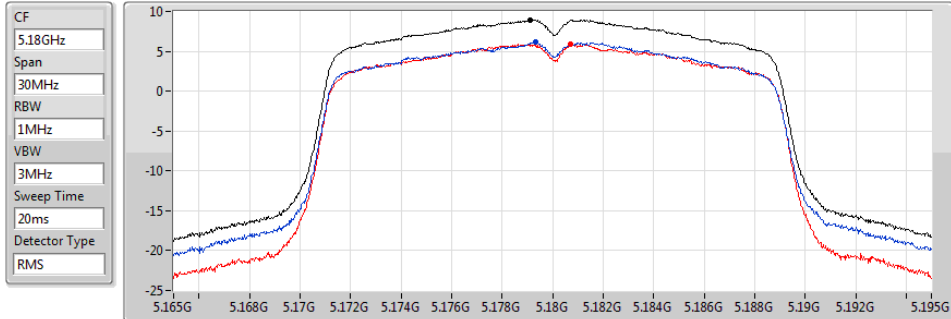


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

05/03/2021



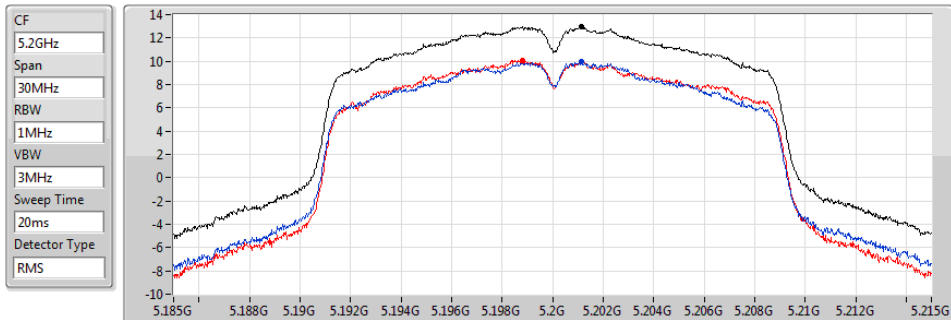
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.97	8.97	6.12	5.94

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

05/03/2021



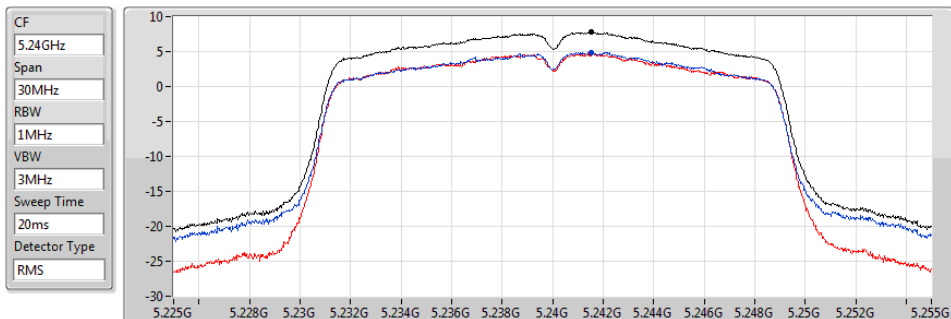
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.96	12.96	9.93	10.08

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

05/03/2021



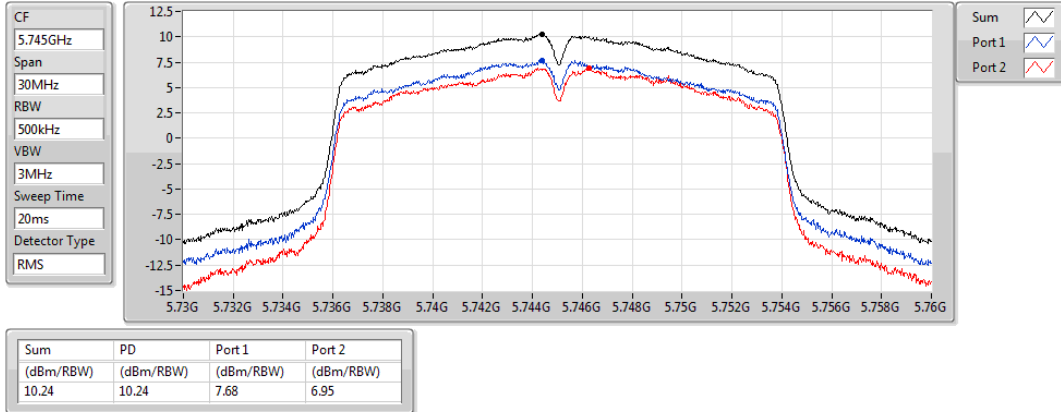
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.75	7.75	4.91	4.73

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

05/03/2021

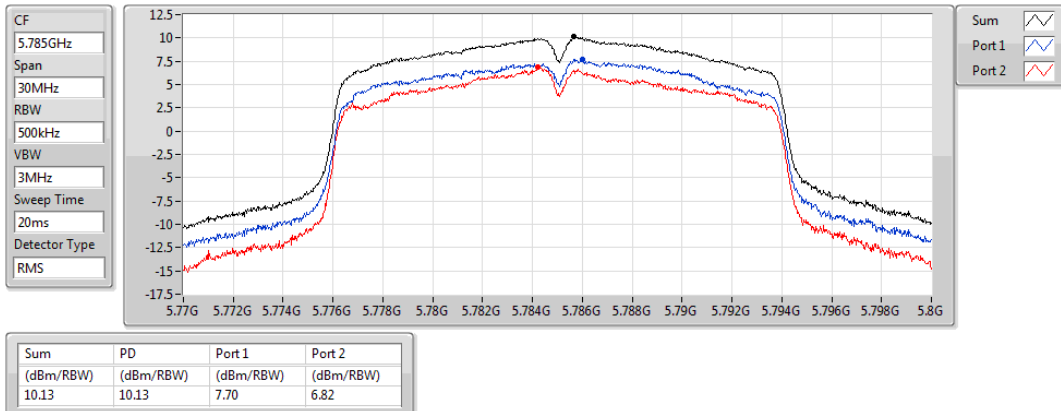


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

05/03/2021

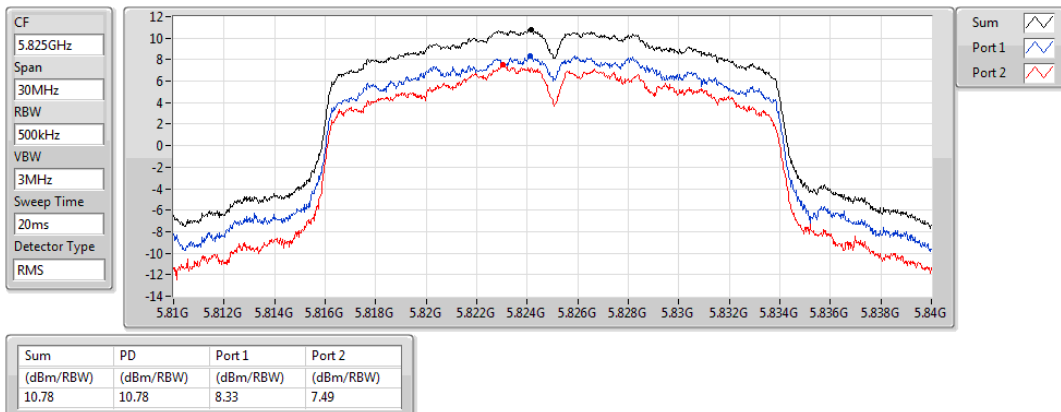


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

05/03/2021



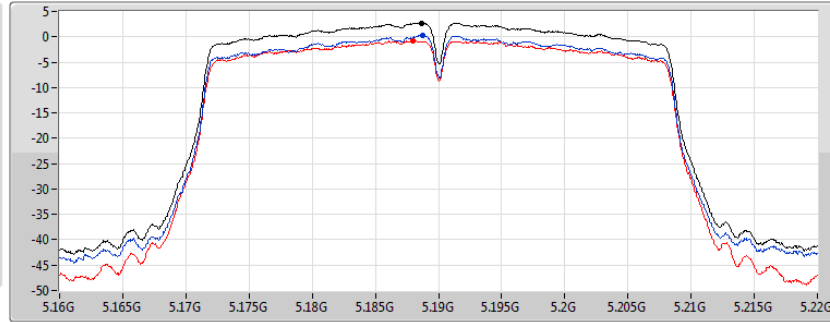
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

05/03/2021

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/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
2.69	2.69	0.28	-0.71

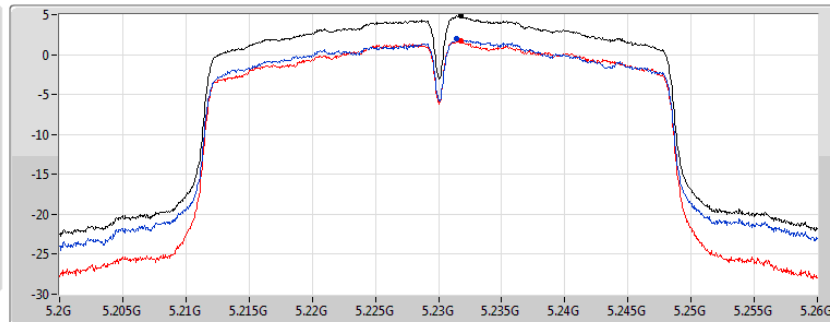
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

05/03/2021

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/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.86	4.86	2.02	1.73

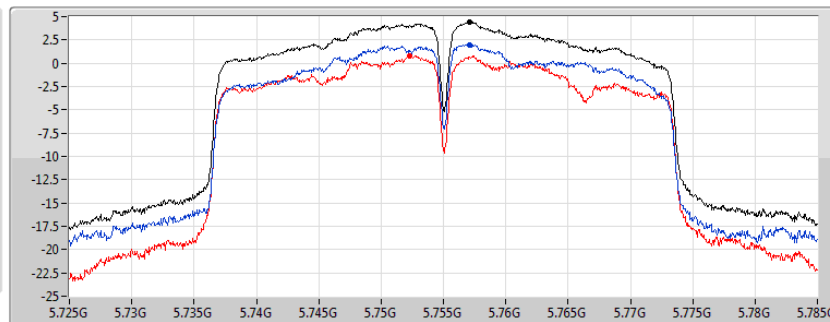
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

05/03/2021

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



Sum
Port 1
Port 2

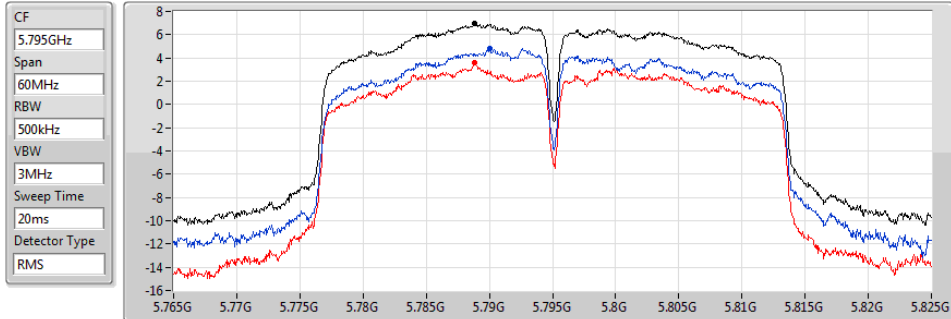
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.39	4.39	1.99	0.83

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

05/03/2021



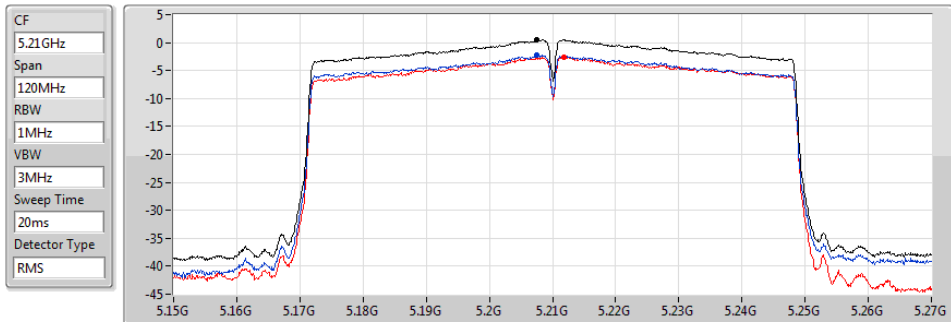
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.98	6.98	4.85	3.61

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

05/03/2021



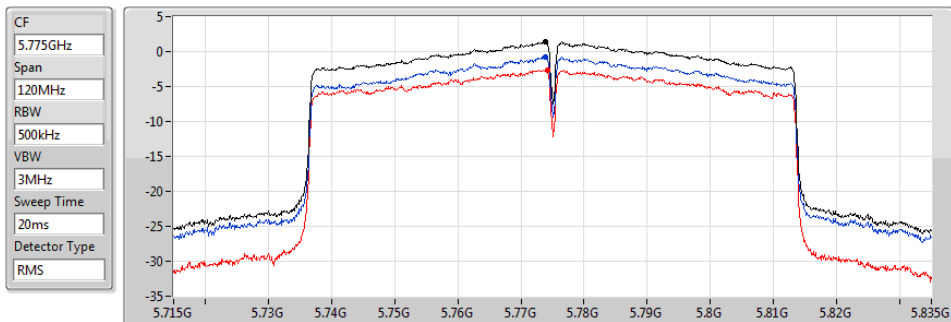
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.53	0.53	-2.14	-2.62

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

05/03/2021



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.39	1.39	-0.79	-2.60



Radiated Emissions below 1GHz

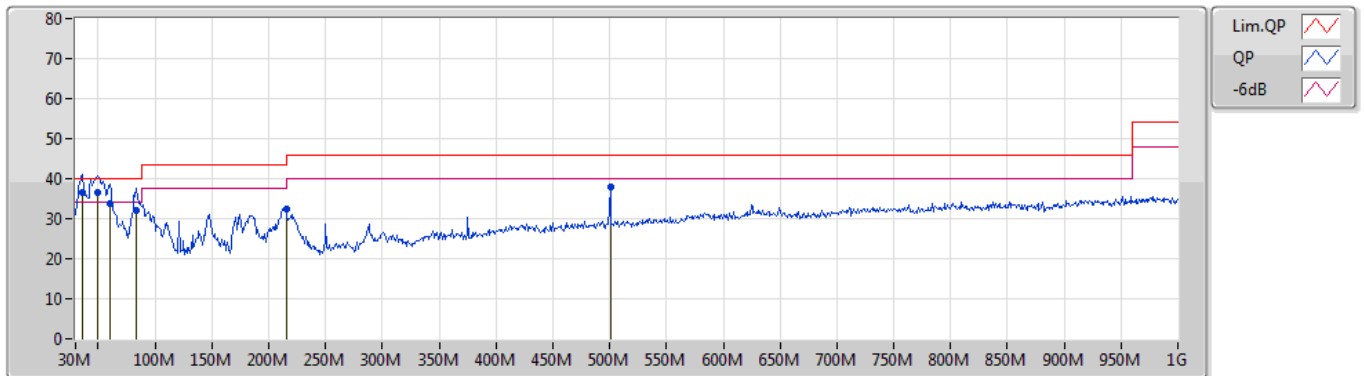
Appendix E.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	35.82M	36.51	40.00	-3.49	Vertical

Mode 2

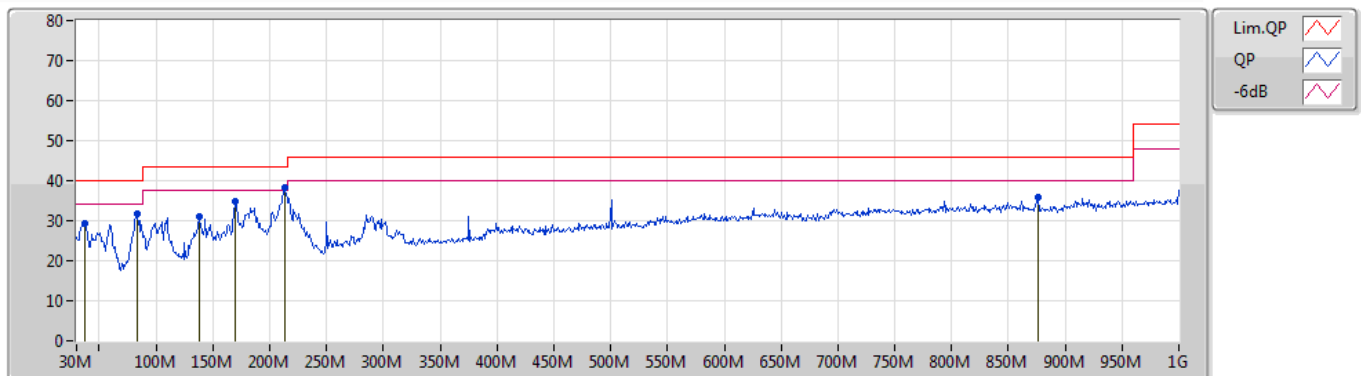
22/03/2021



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	35.82M	36.51	40.00	-3.49	-10.69	3	Vertical	167	1.00	"Worst"	47.20	20.67	1.02	32.38
QP	49.4M	36.42	40.00	-3.58	-17.18	3	Vertical	360	1.00	-	53.60	14.01	1.19	32.38
QP	60.07M	33.65	40.00	-6.35	-18.55	3	Vertical	0	1.00	-	52.20	12.42	1.40	32.37
QP	83.35M	32.11	40.00	-7.89	-17.39	3	Vertical	200	1.00	-	49.50	13.34	1.60	32.33
PK	215.27M	32.51	43.50	-10.99	-14.58	3	Vertical	315	1.00	-	47.09	14.94	2.69	32.21
PK	500.45M	37.94	46.00	-8.06	-4.29	3	Vertical	172	1.00	-	42.23	23.53	4.30	32.12

Mode 2

22/03/2021



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	36.79M	29.33	40.00	-10.67	-11.07	3	Horizontal	32	3.00	-	40.40	20.27	1.04	32.38
PK	83.35M	31.64	40.00	-8.36	-17.39	3	Horizontal	270	2.00	-	49.03	13.34	1.60	32.33
PK	137.67M	31.01	43.50	-12.49	-12.80	3	Horizontal	261	2.00	-	43.81	17.41	2.09	32.30
PK	169.68M	34.92	43.50	-8.58	-14.22	3	Horizontal	81	1.50	-	49.14	15.68	2.35	32.25
PK	213.33M	38.44	43.50	-5.06	-14.60	3	Horizontal	308	1.25	"Worst"	53.04	14.93	2.68	32.21
PK	875.84M	35.71	46.00	-10.29	0.68	3	Horizontal	66	1.00	-	35.03	26.28	5.80	31.40



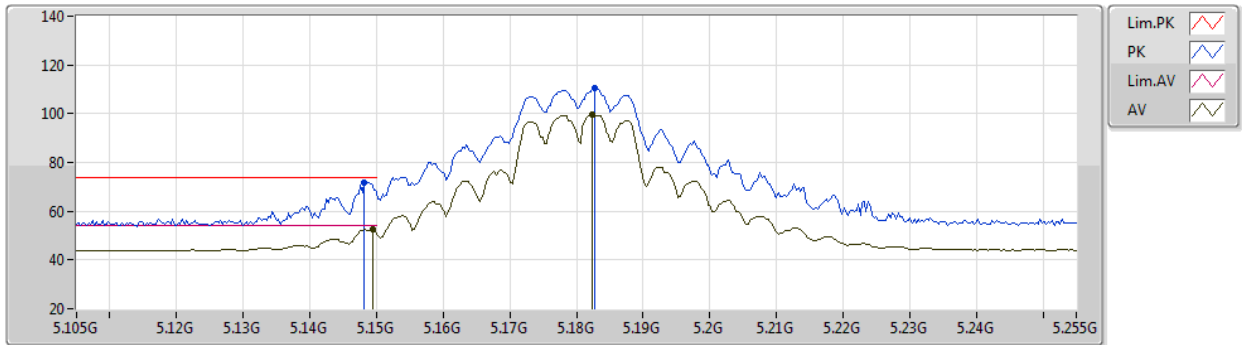
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac_VHT20_Nss1,(MCS0)_2TX	Pass	PK	17.47926G	68.10	68.20	-0.10	3	Vertical	220	2.70	-

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5180MHz_TX



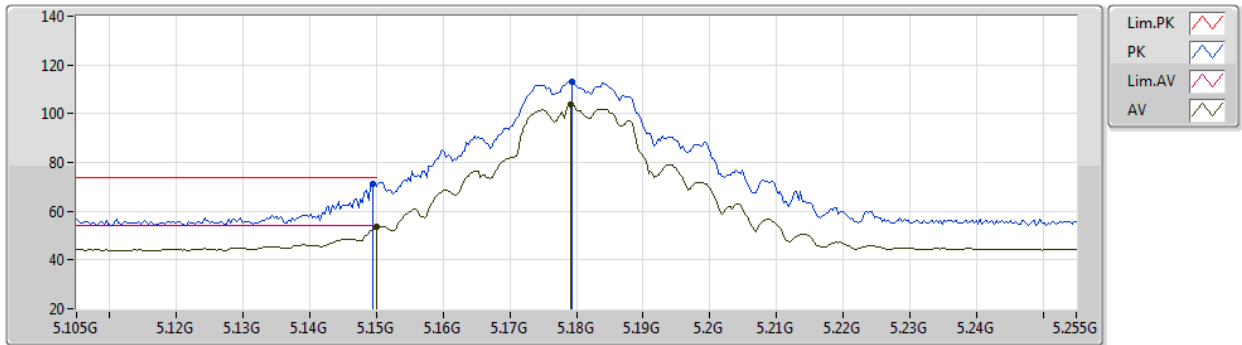
EUT_Z_2TX
Setting 40
02-B-B-3-10

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	51482G	71.98	74.00	-2.02	65.21	3	Vertical	22	2.73	-	33.50	5.00	31.73
AV	51494G	52.63	54.00	-1.37	45.86	3	Vertical	22	2.73	-	33.50	5.00	31.73
PK	51827G	110.30	Inf	-Inf	103.43	3	Vertical	22	2.73	-	33.50	5.07	31.70
AV	51824G	99.74	Inf	-Inf	92.89	3	Vertical	22	2.73	-	33.50	5.06	31.71

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5180MHz_TX



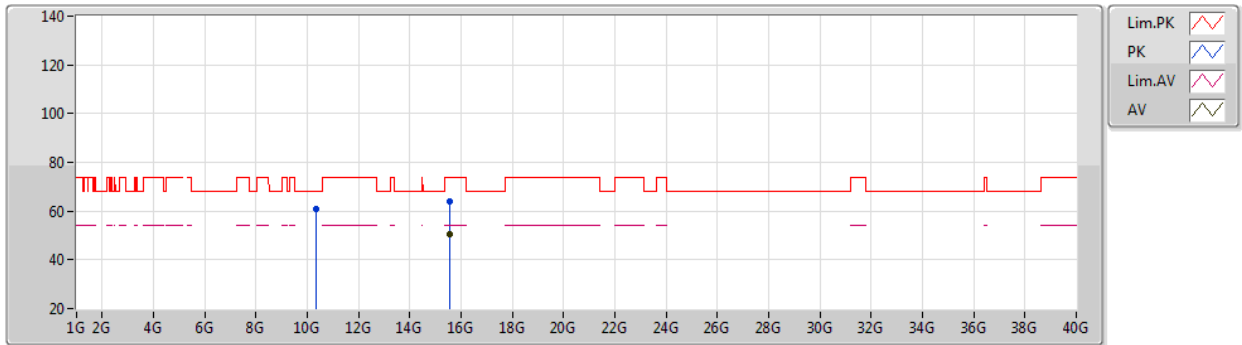
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Setting 40
02-B-B-3-10

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	5.1494G	71.08	74.00	-2.92	64.31	3	Horizontal	338	2.82	-	33.50	5.00	31.73
AV	5.15G	53.38	54.00	-0.62	46.61	3	Horizontal	338	2.82	-	33.50	5.00	31.73
PK	5.1794G	113.14	Inf	-Inf	106.29	3	Horizontal	338	2.82	-	33.50	5.06	31.71
AV	5.1791G	103.68	Inf	-Inf	96.83	3	Horizontal	338	2.82	-	33.50	5.06	31.71

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5180MHz_TX



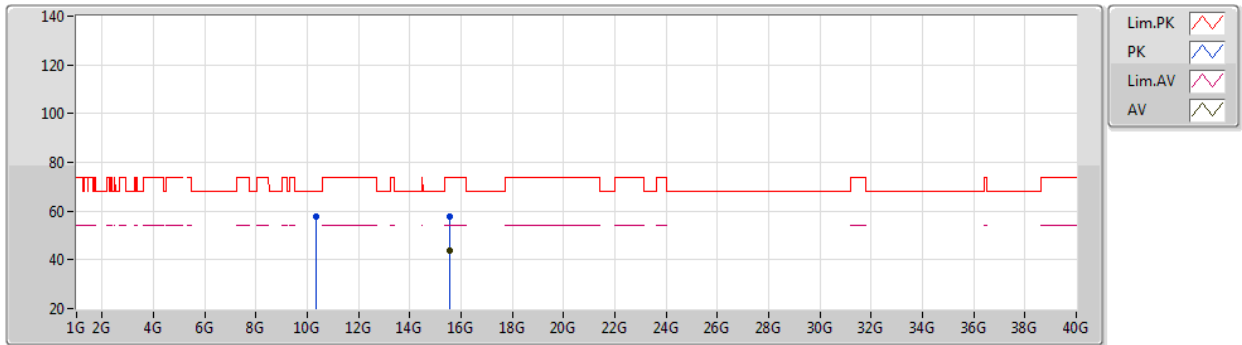
EUT_Z_2TX
Setting 40
02-B-C-5

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	10.36306G	60.78	68.20	-7.42	47.54	3	Vertical	317	1.73	-	38.54	7.23	32.53
PK	15.5349G	64.10	74.00	-9.90	50.24	3	Vertical	322	2.42	-	37.66	9.04	32.84
AV	15.53946G	50.44	54.00	-3.56	36.60	3	Vertical	322	2.42	-	37.64	9.04	32.84

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5180MHz_TX



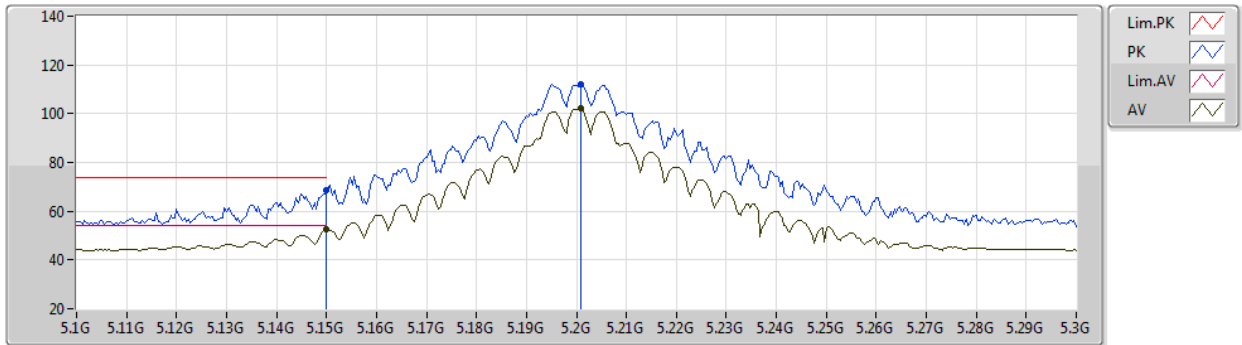
EUT Z_2TX
Setting 40
02-B-C-5

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	10.35838G	57.79	68.20	-10.41	44.55	3	Horizontal	238	1.68	-	38.54	7.23	32.53
PK	15.5397G	57.86	74.00	-16.14	44.02	3	Horizontal	195	1.80	-	37.64	9.04	32.84
AV	15.54054G	43.95	54.00	-10.05	30.11	3	Horizontal	195	1.80	-	37.64	9.04	32.84

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5200MHz_TX



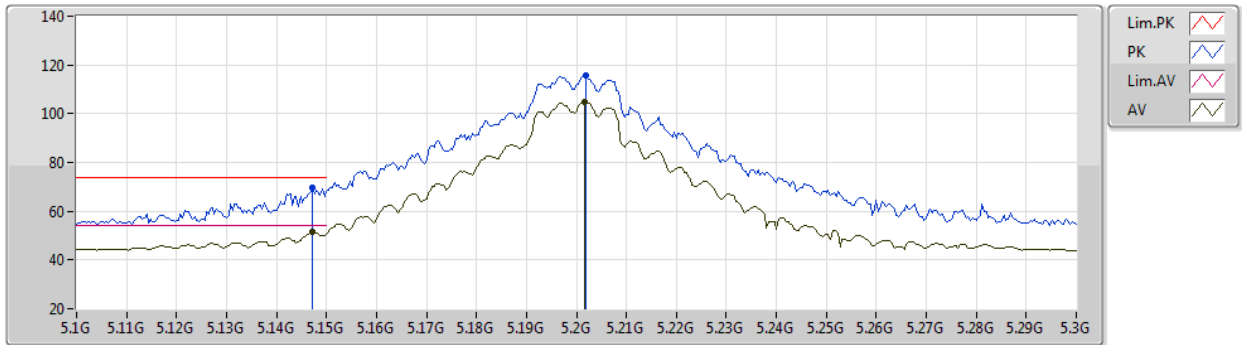
EUT_Z_2TX
Setting 46
02-B-B-3-10

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	68.83	74.00	-5.17	62.06	3	Vertical	23	2.36	-	33.50	5.00	31.73
AV	5.15G	52.63	54.00	-1.37	45.86	3	Vertical	23	2.36	-	33.50	5.00	31.73
PK	5.208G	112.32	Inf	-Inf	105.41	3	Vertical	23	2.36	-	33.50	5.10	31.69
AV	5.208G	102.11	Inf	-Inf	95.20	3	Vertical	23	2.36	-	33.50	5.10	31.69

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5200MHz_TX



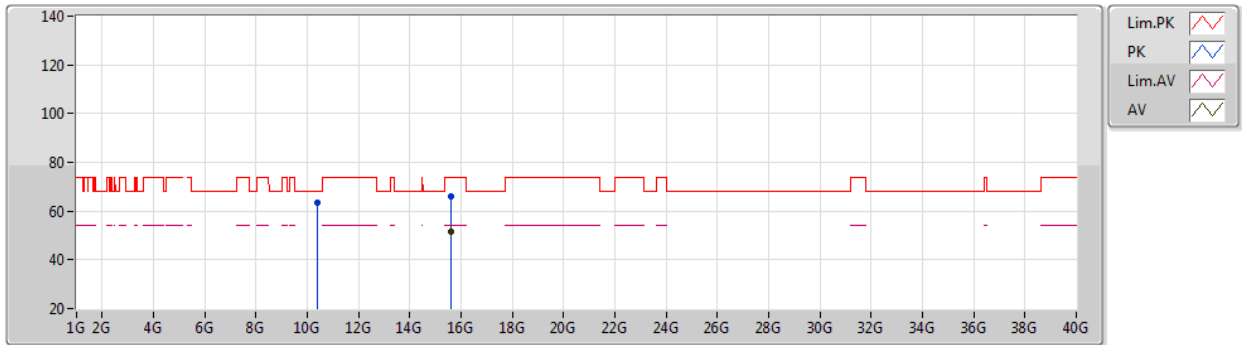
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Setting 46
02-B-B-3-10

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	5.1472G	69.54	74.00	-4.46	62.79	3	Horizontal	337	2.34	-	33.49	4.99	31.73
AV	5.1472G	51.44	54.00	-2.56	44.69	3	Horizontal	337	2.34	-	33.49	4.99	31.73
PK	5.202G	115.44	Inf	-Inf	108.53	3	Horizontal	337	2.34	-	33.50	5.10	31.69
AV	5.2016G	104.85	Inf	-Inf	97.94	3	Horizontal	337	2.34	-	33.50	5.10	31.69

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5200MHz_TX



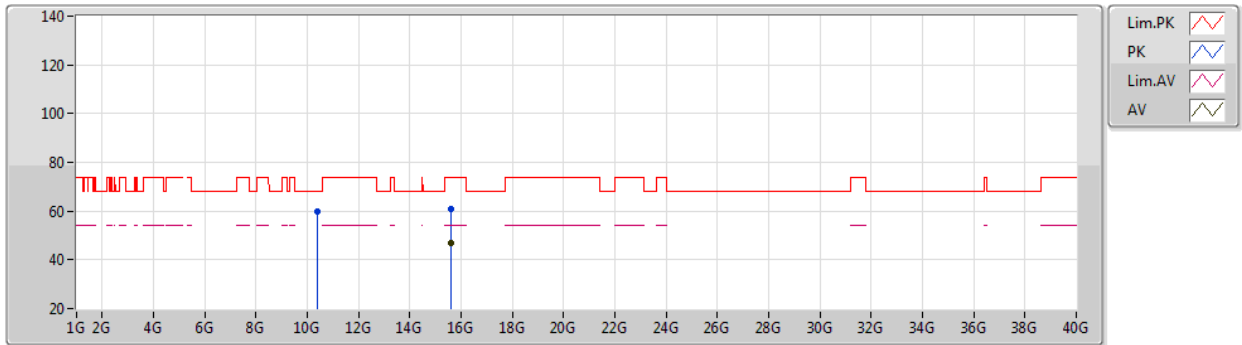
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.39844G	63.66	68.20	-4.54	50.46	3	Vertical	323	1.78	-	38.50	7.24	32.54
PK	15.59718G	65.85	74.00	-8.15	52.23	3	Vertical	322	2.41	-	37.41	9.06	32.85
AV	15.59706G	51.70	54.00	-2.30	38.08	3	Vertical	322	2.41	-	37.41	9.06	32.85

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5200MHz_TX



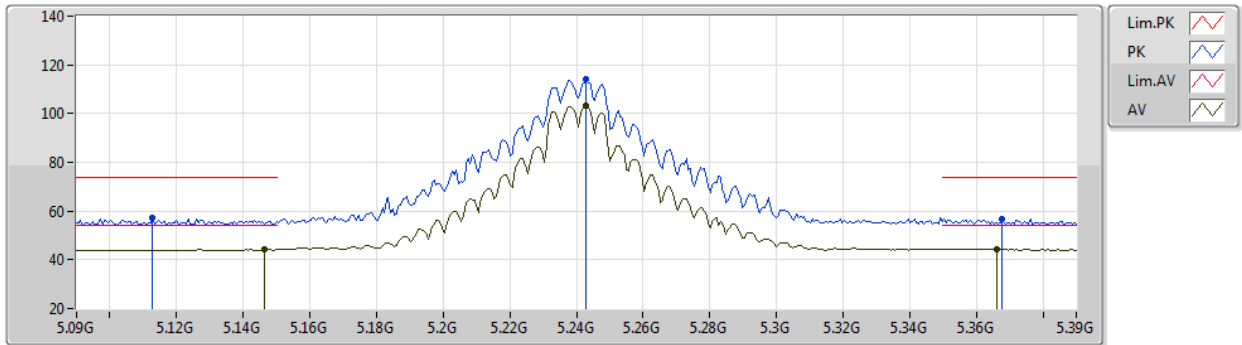
EUT Z_2TX
Setting 46
02-B-C-5

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	10.3979G	59.60	68.20	-8.60	46.40	3	Horizontal	238	1.80	-	38.50	7.24	32.54
PK	15.59748G	61.01	74.00	-12.99	47.39	3	Horizontal	198	1.71	-	37.41	9.06	32.85
AV	15.59778G	47.07	54.00	-6.93	33.45	3	Horizontal	198	1.71	-	37.41	9.06	32.85

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5240MHz_TX



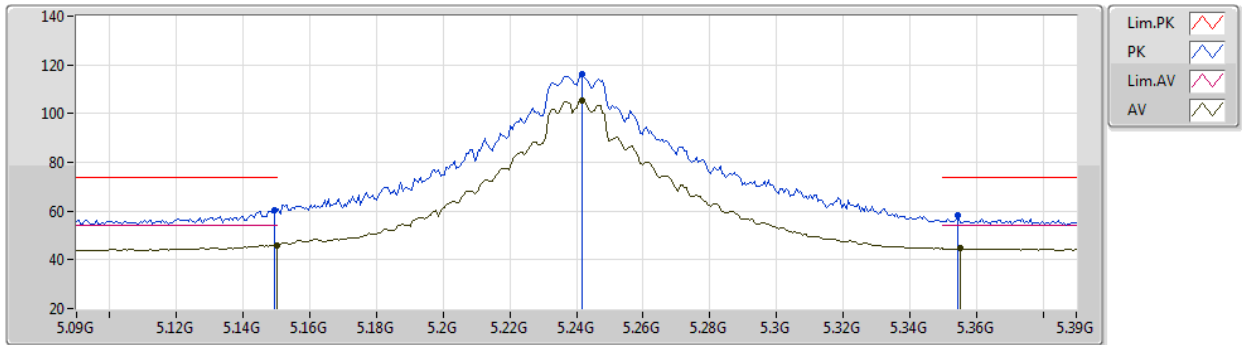
EUT Z_2TX
Setting 46
02-B-C-5-10

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	5.1128G	57.23	74.00	-16.77	50.63	3	Vertical	34	2.69	-	33.43	4.93	31.76
AV	5.1464G	44.36	54.00	-9.64	37.61	3	Vertical	34	2.69	-	33.49	4.99	31.73
PK	5.243G	114.20	Inf	-Inf	107.19	3	Vertical	34	2.69	-	33.59	5.08	31.66
AV	5.243G	103.28	Inf	-Inf	96.27	3	Vertical	34	2.69	-	33.59	5.08	31.66
PK	5.3678G	56.75	74.00	-17.25	49.50	3	Vertical	34	2.69	-	33.80	5.02	31.57
AV	5.366G	44.34	54.00	-9.66	37.09	3	Vertical	34	2.69	-	33.80	5.02	31.57

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5240MHz_TX



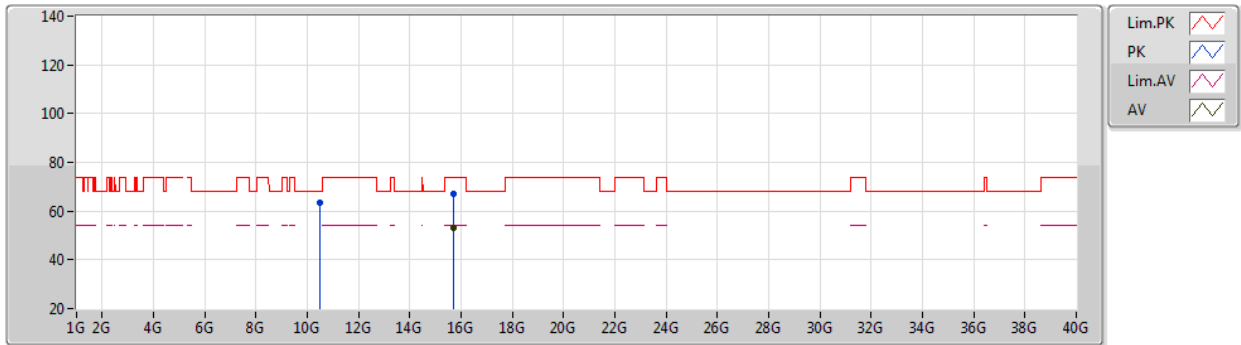
EUT Z_2TX
Setting 46
02-B-C-5-10

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	5.1494G	60.27	74.00	-13.73	53.50	3	Horizontal	192	2.90	-	33.50	5.00	31.73
AV	5.15G	45.90	54.00	-8.10	39.13	3	Horizontal	192	2.90	-	33.50	5.00	31.73
PK	5.2418G	115.95	Inf	-Inf	108.95	3	Horizontal	192	2.90	-	33.58	5.08	31.66
AV	5.2418G	105.53	Inf	-Inf	98.53	3	Horizontal	192	2.90	-	33.58	5.08	31.66
PK	5.3546G	58.35	74.00	-15.65	51.11	3	Horizontal	192	2.90	-	33.80	5.02	31.58
AV	5.3552G	44.62	54.00	-9.38	37.38	3	Horizontal	192	2.90	-	33.80	5.02	31.58

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5240MHz_TX



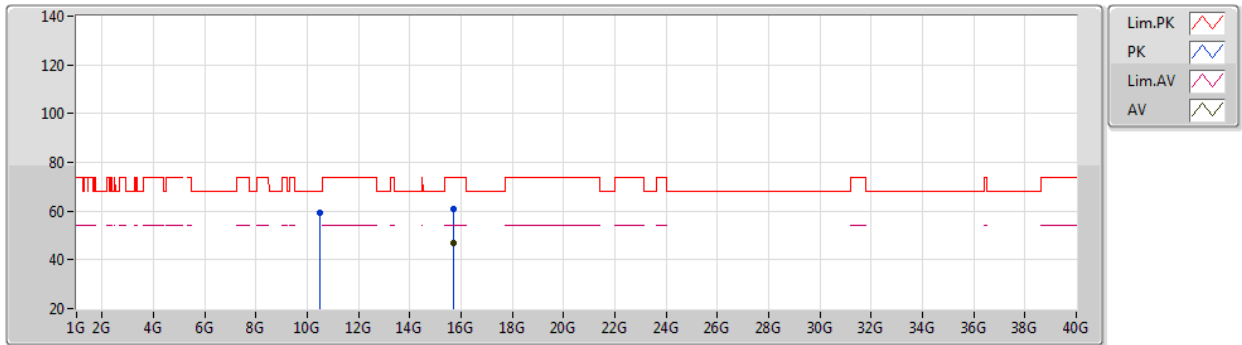
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.47838G	63.38	68.20	-4.82	50.16	3	Vertical	318	1.80	-	38.50	7.27	32.55
PK	15.7242G	67.13	74.00	-6.87	53.44	3	Vertical	323	1.54	-	37.45	9.10	32.86
AV	15.7197G	53.01	54.00	-0.99	39.31	3	Vertical	323	1.54	-	37.46	9.10	32.86

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5240MHz_TX



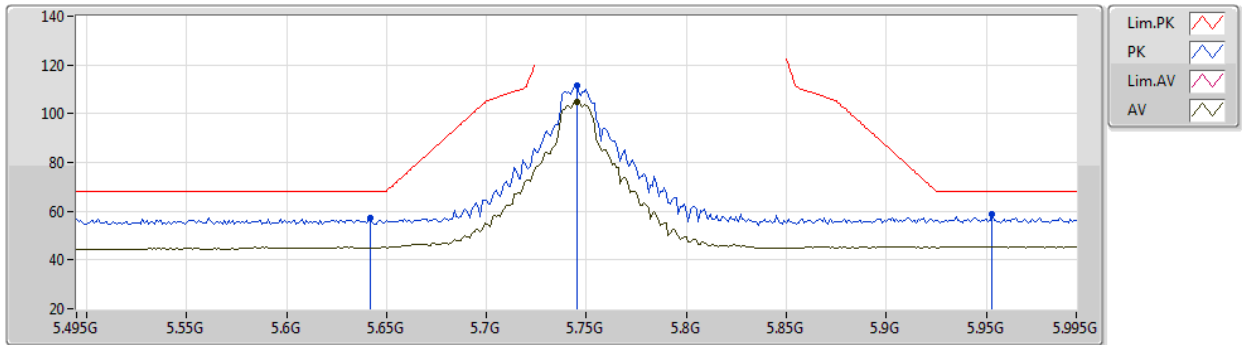
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.48312G	59.12	68.20	-9.08	45.90	3	Horizontal	236	1.80	-	38.50	7.27	32.55
PK	15.71964G	60.62	74.00	-13.38	46.92	3	Horizontal	199	1.73	-	37.46	9.10	32.86
AV	15.7197G	46.81	54.00	-7.19	33.11	3	Horizontal	199	1.73	-	37.46	9.10	32.86

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5745MHz_TX



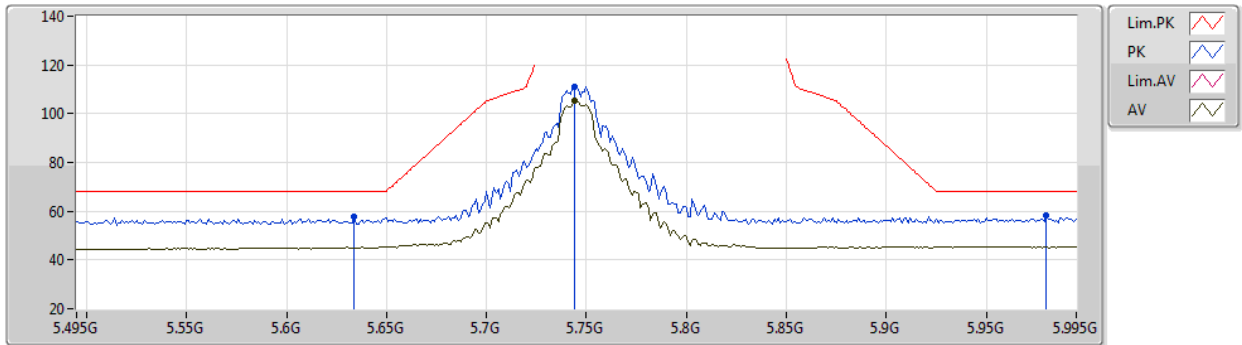
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Setting 46
02-B-B-3-10

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	5.642G	57.37	68.20	-10.83	49.77	3	Vertical	48	2.05	-	33.90	5.16	31.46
PK	5.745G	111.30	Inf	-Inf	103.91	3	Vertical	48	2.05	-	33.80	5.05	31.46
AV	5.745G	105.07	Inf	-Inf	97.68	3	Vertical	48	2.05	-	33.80	5.05	31.46
PK	5.953G	58.61	68.20	-9.59	50.49	3	Vertical	48	2.05	-	34.11	5.46	31.45

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5745MHz_TX



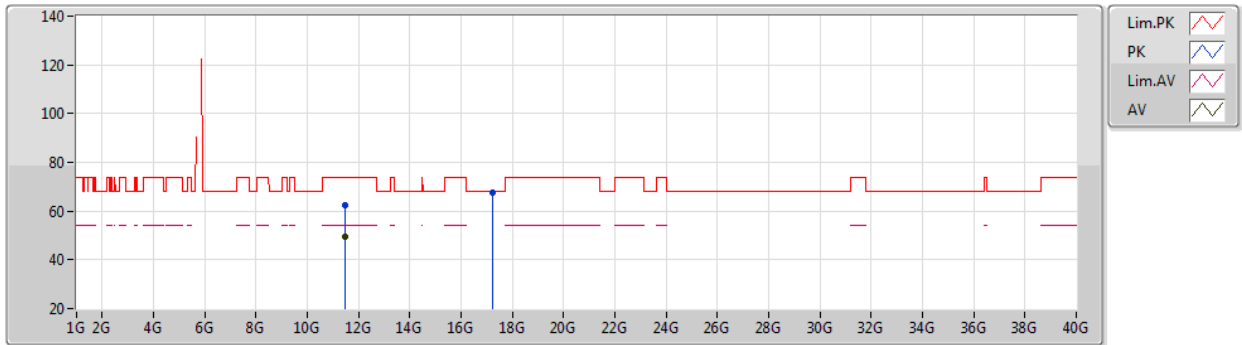
EUT_Z_2TX
Setting 46
02-B-B-3-10

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	5.634G	57.92	68.20	-10.28	50.31	3	Horizontal	47	2.05	-	33.90	5.17	31.46
PK	5.744G	111.25	Inf	-Inf	103.85	3	Horizontal	47	2.05	-	33.80	5.06	31.46
AV	5.744G	105.39	Inf	-Inf	97.99	3	Horizontal	47	2.05	-	33.80	5.06	31.46
PK	5.98G	58.33	68.20	-9.87	50.08	3	Horizontal	47	2.05	-	34.16	5.54	31.45

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5745MHz_TX



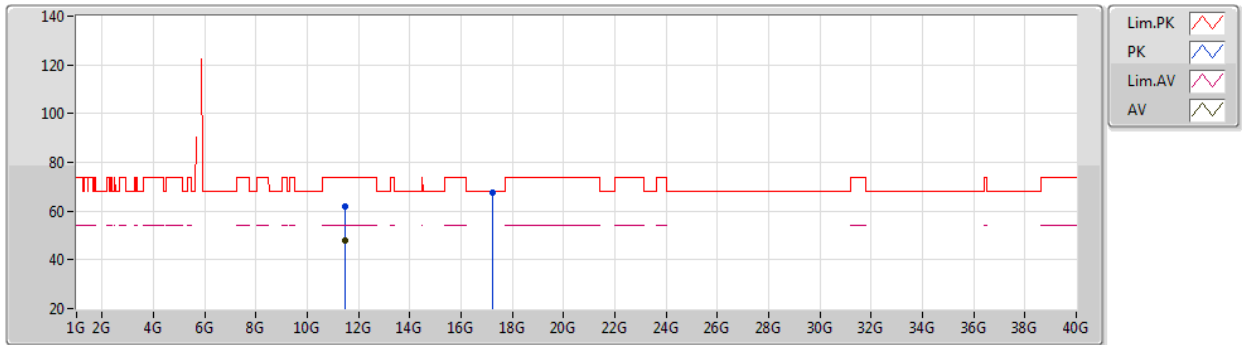
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.4909G	62.63	74.00	-11.37	48.96	3	Vertical	281	2.86	-	38.98	7.62	32.93
AV	11.4903G	49.55	54.00	-4.45	35.88	3	Vertical	281	2.86	-	38.98	7.62	32.93
PK	17.23188G	67.70	68.20	-0.50	48.98	3	Vertical	223	2.22	-	42.33	9.32	32.93

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5745MHz_TX



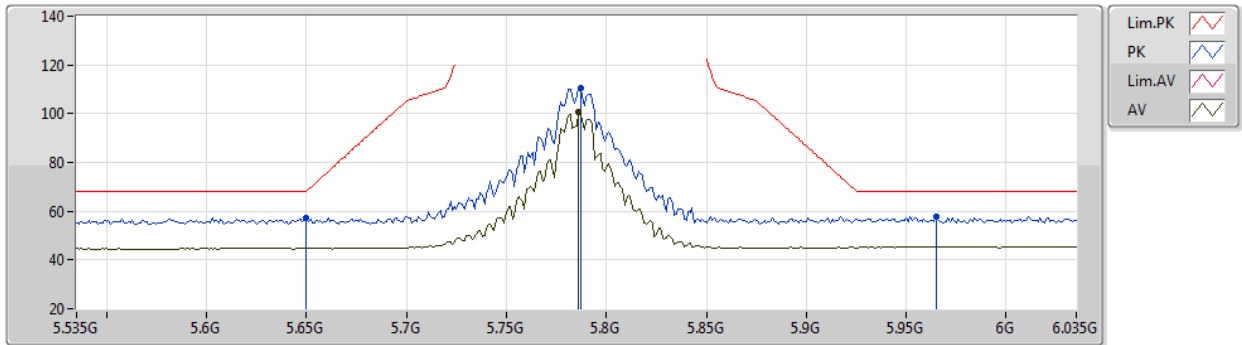
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.48784G	61.81	74.00	-12.19	48.14	3	Horizontal	90	1.88	-	38.98	7.62	32.93
AV	11.49258G	48.15	54.00	-5.85	34.47	3	Horizontal	90	1.88	-	38.99	7.62	32.93
PK	17.23944G	67.70	68.20	-0.50	48.95	3	Horizontal	237	2.20	-	42.36	9.32	32.93

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5785MHz_TX



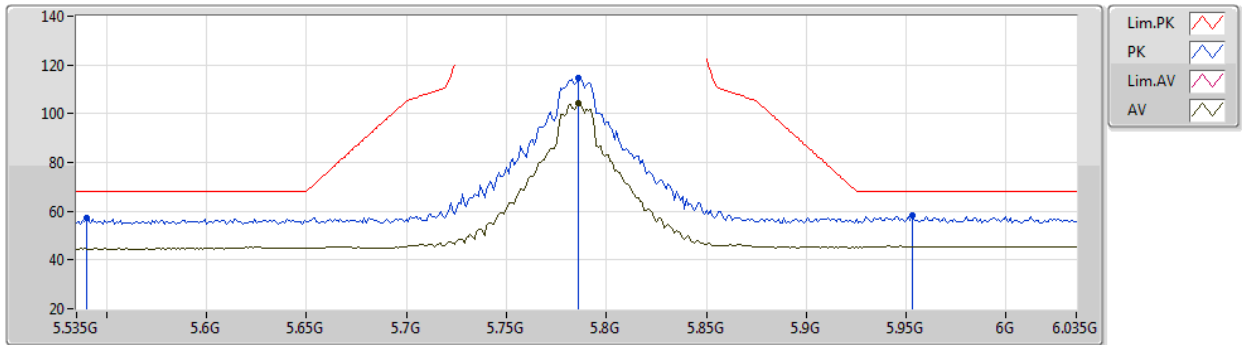
EUT_Z_2TX
Setting 46
02-B-B-3-10

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	5.65G	57.27	68.20	-10.93	49.68	3	Vertical	33	1.98	-	33.90	5.15	31.46
PK	5.787G	110.46	Inf	-Inf	103.11	3	Vertical	33	1.98	-	33.80	5.01	31.46
AV	5.786G	100.58	Inf	-Inf	93.23	3	Vertical	33	1.98	-	33.80	5.01	31.46
PK	5.965G	57.98	68.20	-10.22	49.81	3	Vertical	33	1.98	-	34.13	5.49	31.45

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5785MHz_TX



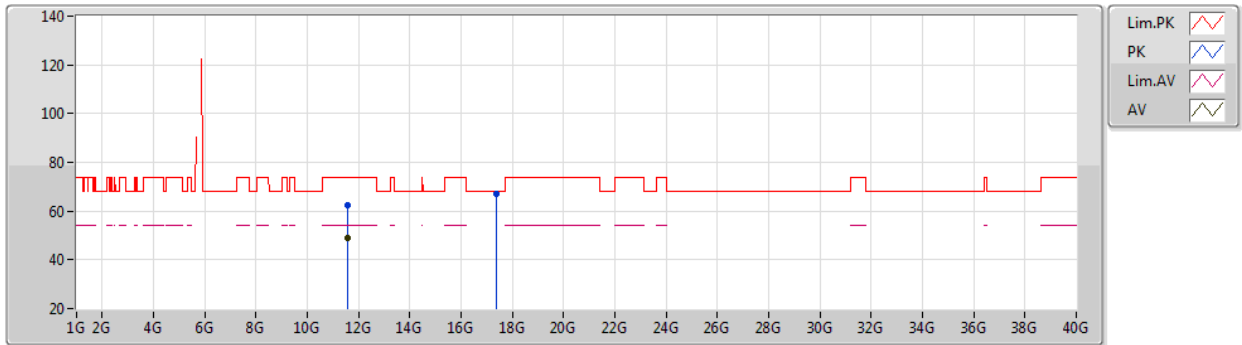
EUT_Z_2TX
Setting 46
02-B-B-3-10

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	5.54G	57.39	68.20	-10.81	49.82	3	Horizontal	357	1.79	-	33.90	5.14	31.47
PK	5.786G	114.51	Inf	-Inf	107.16	3	Horizontal	357	1.79	-	33.80	5.01	31.46
AV	5.786G	104.47	Inf	-Inf	97.12	3	Horizontal	357	1.79	-	33.80	5.01	31.46
PK	5.953G	58.28	68.20	-9.92	50.16	3	Horizontal	357	1.79	-	34.11	5.46	31.45

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5785MHz_TX



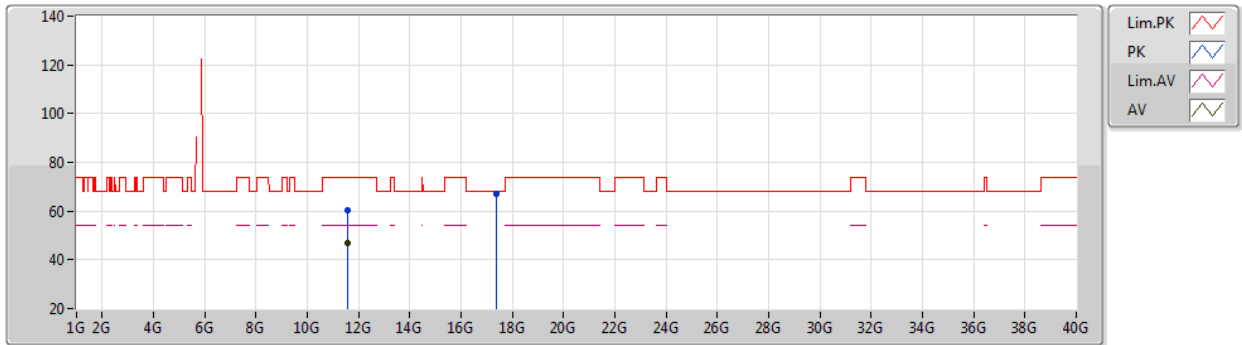
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.57228G	62.31	74.00	-11.69	48.37	3	Vertical	314	1.68	-	39.22	7.65	32.93
AV	11.57246G	48.79	54.00	-5.21	34.85	3	Vertical	314	1.68	-	39.22	7.65	32.93
PK	17.35932G	66.83	68.20	-1.37	47.34	3	Vertical	222	1.93	-	43.07	9.34	32.92

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5785MHz_TX



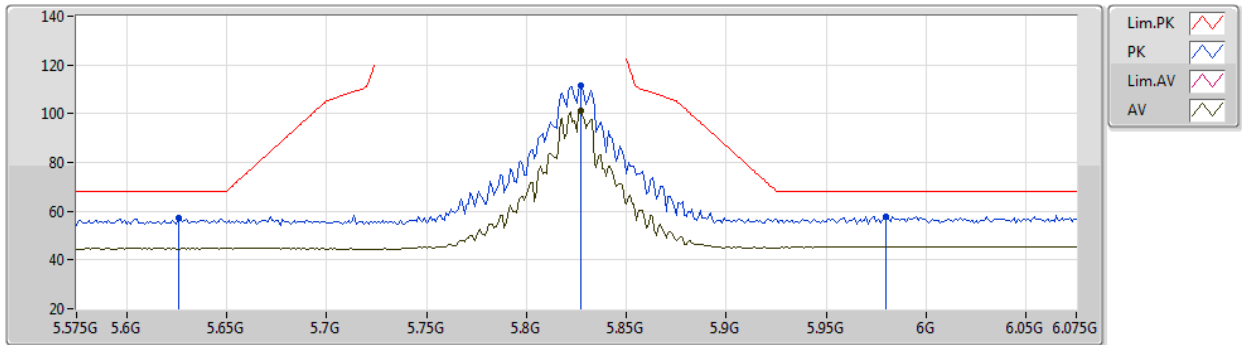
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.57222G	60.42	74.00	-13.58	46.48	3	Horizontal	87	1.89	-	39.22	7.65	32.93
AV	11.57246G	47.11	54.00	-6.89	33.17	3	Horizontal	87	1.89	-	39.22	7.65	32.93
PK	17.35932G	67.20	68.20	-1.00	47.71	3	Horizontal	301	1.39	-	43.07	9.34	32.92

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5825MHz_TX



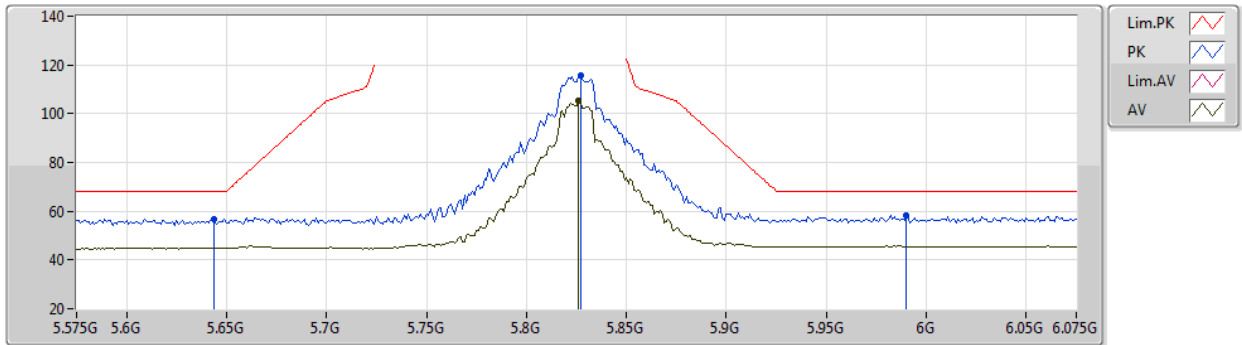
EUT_Z_2TX
Setting 46
02-B-B-3-10

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	5.626G	57.45	68.20	-10.75	49.84	3	Vertical	270	1.97	-	33.90	5.17	31.46
PK	5.827G	111.72	Inf	-Inf	104.25	3	Vertical	270	1.97	-	33.85	5.08	31.46
AV	5.827G	100.95	Inf	-Inf	93.48	3	Vertical	270	1.97	-	33.85	5.08	31.46
PK	5.98G	57.90	68.20	-10.30	49.65	3	Vertical	270	1.97	-	34.16	5.54	31.45

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5825MHz_TX



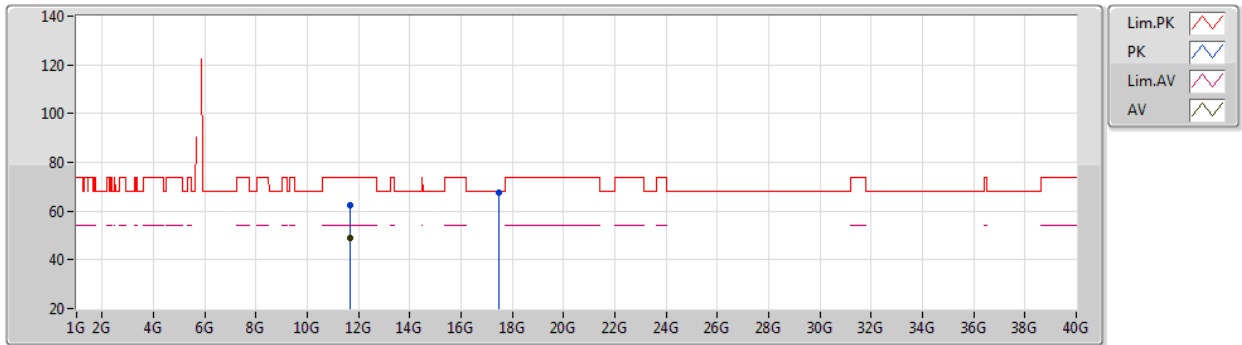
EUT_Z_2TX
Setting 46
02-B-B-3-10

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	5.644G	56.96	68.20	-11.24	49.36	3	Horizontal	0	2.07	-	33.90	5.16	31.46
PK	5.827G	115.58	Inf	-Inf	108.11	3	Horizontal	0	2.07	-	33.85	5.08	31.46
AV	5.826G	105.35	Inf	-Inf	97.88	3	Horizontal	0	2.07	-	33.85	5.08	31.46
PK	5.99G	58.40	68.20	-9.80	50.10	3	Horizontal	0	2.07	-	34.18	5.57	31.45

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5825MHz_TX



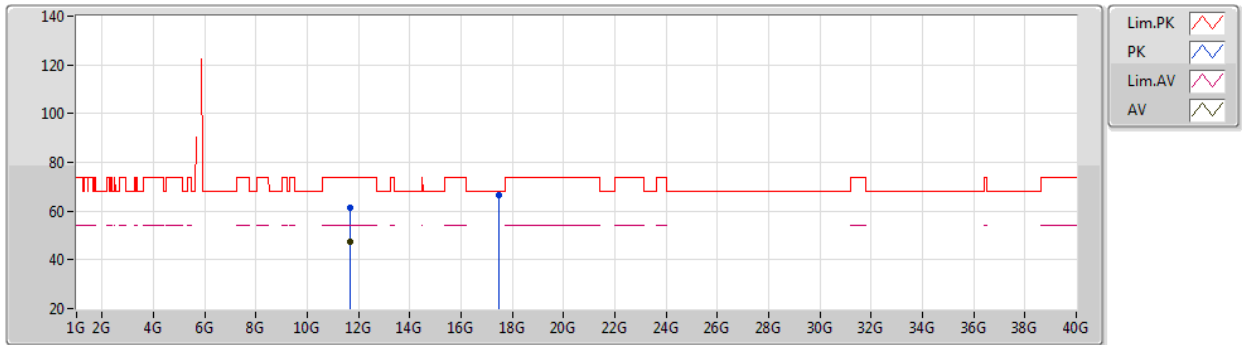
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.65234G	62.51	74.00	-11.49	48.36	3	Vertical	314	1.44	-	39.40	7.68	32.93
AV	11.65252G	49.09	54.00	-4.91	34.93	3	Vertical	314	1.44	-	39.41	7.68	32.93
PK	17.475G	67.55	68.20	-0.65	47.18	3	Vertical	222	2.21	-	43.92	9.35	32.90

802.11a_Nss1,(6Mbps)_2TX

04/03/2021

5825MHz_TX



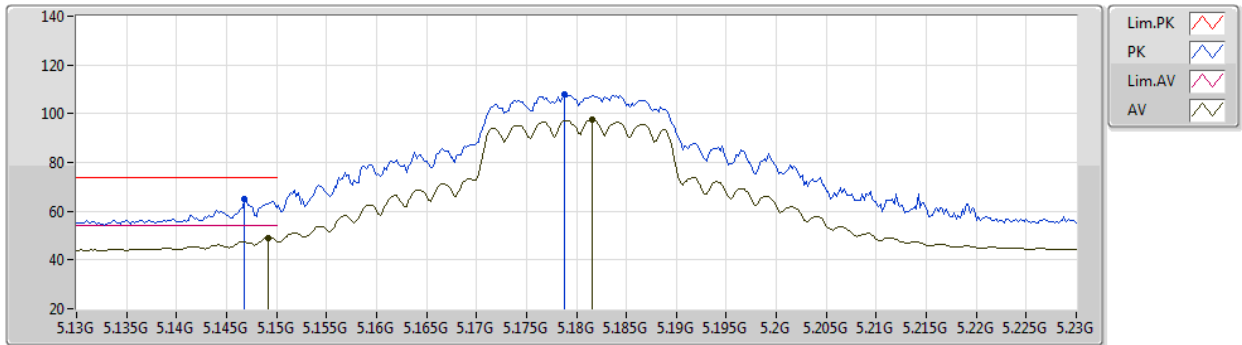
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.64784G	61.35	74.00	-12.65	47.20	3	Horizontal	89	1.80	-	39.40	7.68	32.93
AV	11.6479G	47.48	54.00	-6.52	33.33	3	Horizontal	89	1.80	-	39.40	7.68	32.93
PK	17.4777G	66.36	68.20	-1.84	45.97	3	Horizontal	233	1.64	-	43.94	9.35	32.90

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5180MHz_TX



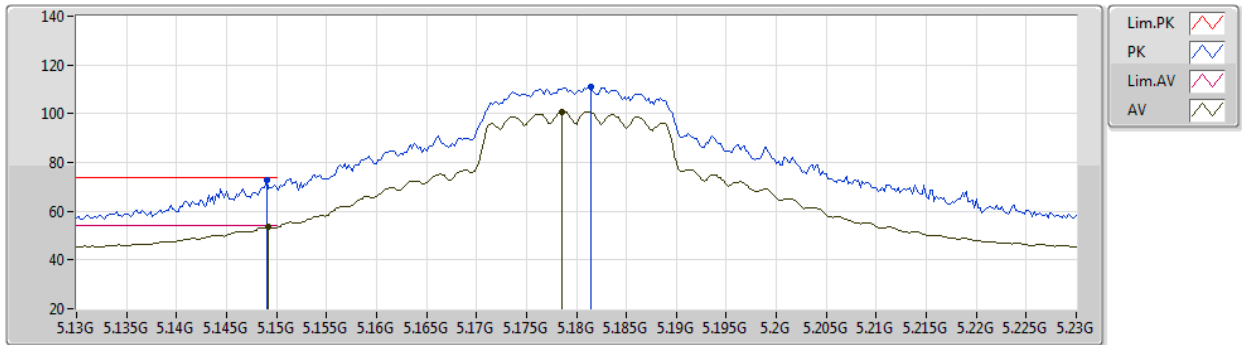
EUT_Z_2TX
Setting 36
02-B-C-5-10

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	51468G	64.93	74.00	-9.07	58.18	3	Vertical	29	2.74	-	33.49	4.99	31.73
AV	51492G	49.06	54.00	-4.94	42.29	3	Vertical	29	2.74	-	33.50	5.00	31.73
PK	51788G	107.77	Inf	-Inf	100.92	3	Vertical	29	2.74	-	33.50	5.06	31.71
AV	51816G	97.75	Inf	-Inf	90.90	3	Vertical	29	2.74	-	33.50	5.06	31.71

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5180MHz_TX



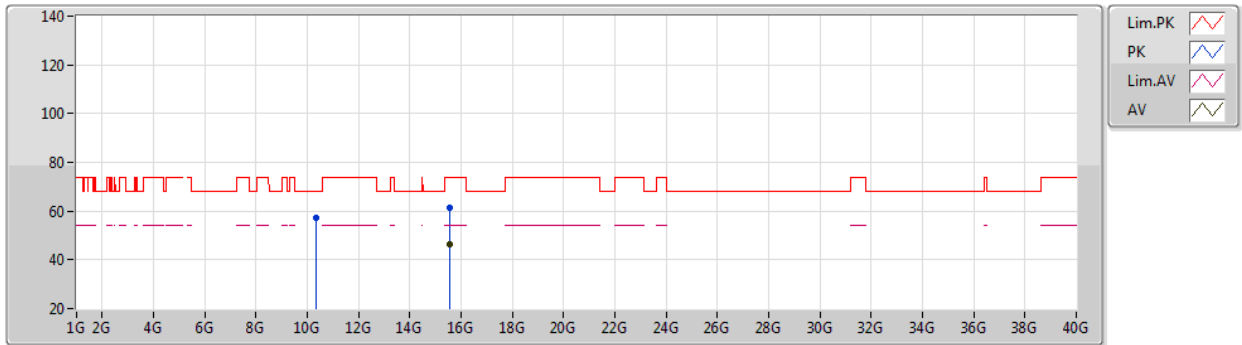
EUT_Z_2TX
Setting 36
02-B-C-5-10

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	5.149G	72.67	74.00	-1.33	65.90	3	Horizontal	185	2.25	-	33.50	5.00	31.73
AV	5.1492G	53.51	54.00	-0.49	46.74	3	Horizontal	185	2.25	-	33.50	5.00	31.73
PK	5.1814G	110.93	Inf	-Inf	104.08	3	Horizontal	185	2.25	-	33.50	5.06	31.71
AV	5.1786G	100.92	Inf	-Inf	94.07	3	Horizontal	185	2.25	-	33.50	5.06	31.71

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5180MHz_TX



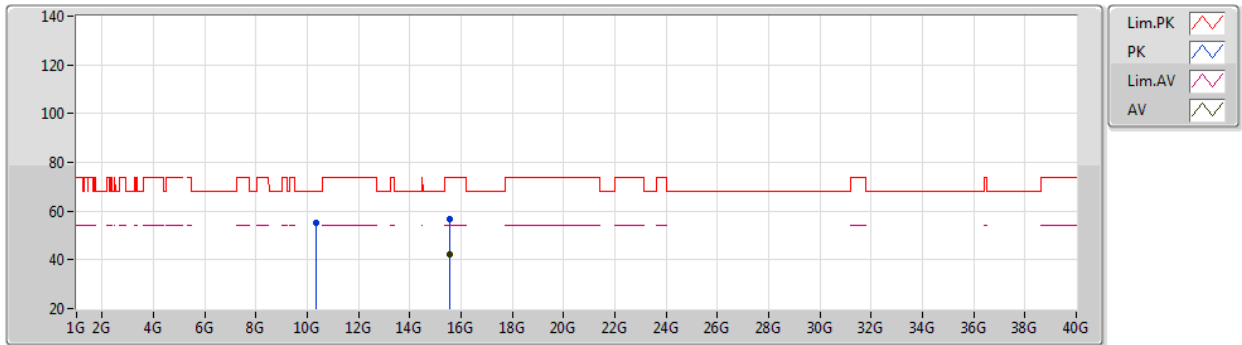
EUT_Z_2TX
Setting 36
02-B-C-5

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	10.35952G	57.34	68.20	-10.86	44.10	3	Vertical	320	1.73	-	38.54	7.23	32.53
PK	15.54336G	61.41	74.00	-12.59	47.58	3	Vertical	276	2.37	-	37.63	9.04	32.84
AV	15.54114G	46.53	54.00	-7.47	32.69	3	Vertical	276	2.37	-	37.64	9.04	32.84

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5180MHz_TX



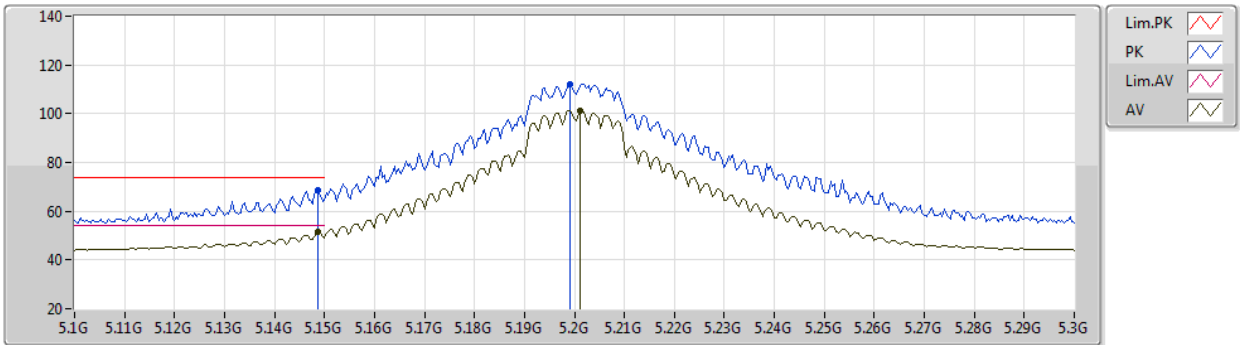
EUT_Z_2TX
Setting 36
02-B-C-5

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	10.36408G	55.34	68.20	-12.86	42.10	3	Horizontal	238	1.66	-	38.54	7.23	32.53
PK	15.54516G	56.66	74.00	-17.34	42.84	3	Horizontal	200	1.49	-	37.62	9.04	32.84
AV	15.54018G	42.29	54.00	-11.71	28.45	3	Horizontal	200	1.49	-	37.64	9.04	32.84

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5200MHz_TX



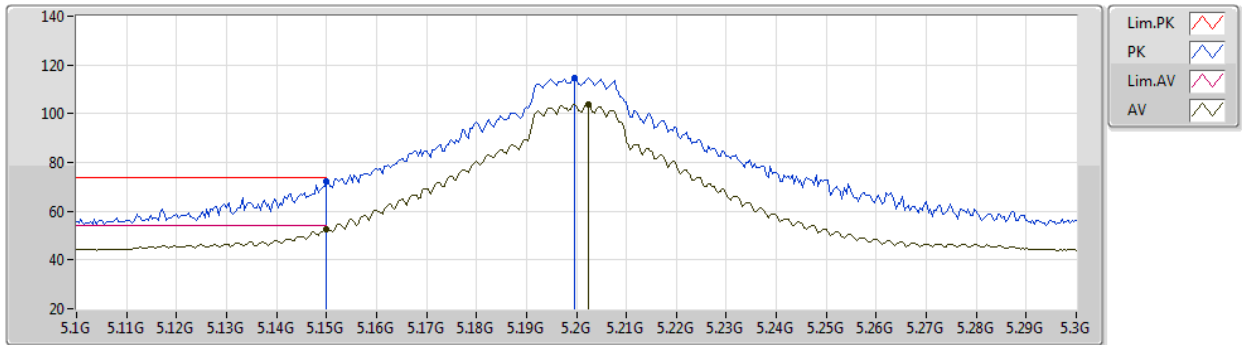
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.1488G	68.51	74.00	-5.49	61.74	3	Vertical	19	2.35	-	33.50	5.00	31.73
AV	5.1488G	51.50	54.00	-2.50	44.73	3	Vertical	19	2.35	-	33.50	5.00	31.73
PK	5.1992G	112.23	Inf	-Inf	105.32	3	Vertical	19	2.35	-	33.50	5.10	31.69
AV	5.2012G	101.41	Inf	-Inf	94.50	3	Vertical	19	2.35	-	33.50	5.10	31.69

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5200MHz_TX



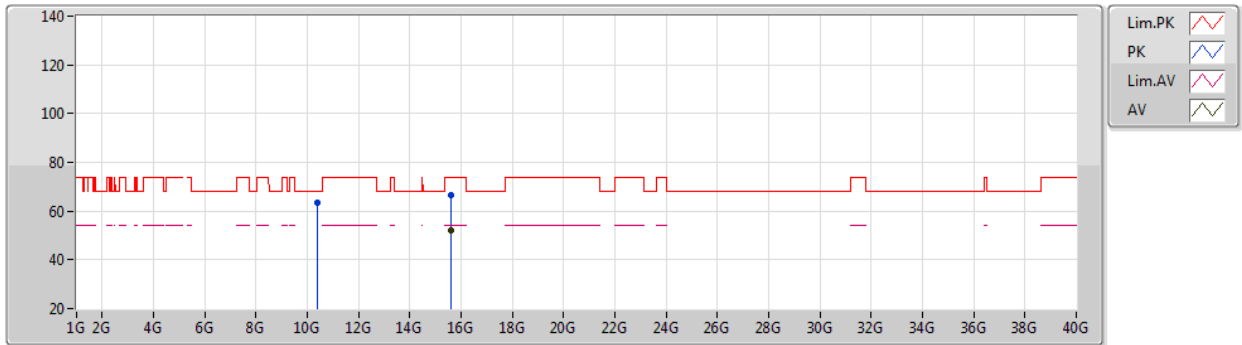
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.15G	72.31	74.00	-1.69	65.54	3	Horizontal	337	2.34	-	33.50	5.00	31.73
AV	5.15G	52.62	54.00	-1.38	45.85	3	Horizontal	337	2.34	-	33.50	5.00	31.73
PK	5.1996G	114.68	Inf	-Inf	107.77	3	Horizontal	337	2.34	-	33.50	5.10	31.69
AV	5.2024G	103.97	Inf	-Inf	97.06	3	Horizontal	337	2.34	-	33.50	5.10	31.69

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5200MHz_TX



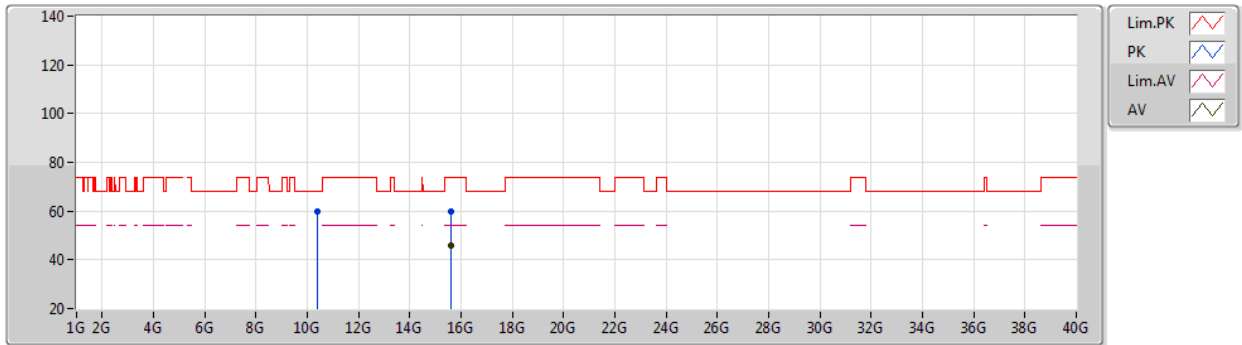
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.39964G	63.44	68.20	-4.76	50.24	3	Vertical	319	1.72	-	38.50	7.24	32.54
PK	15.59634G	66.50	74.00	-7.50	52.88	3	Vertical	279	2.04	-	37.41	9.06	32.85
AV	15.60096G	52.22	54.00	-1.78	38.61	3	Vertical	279	2.04	-	37.40	9.06	32.85

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5200MHz_TX



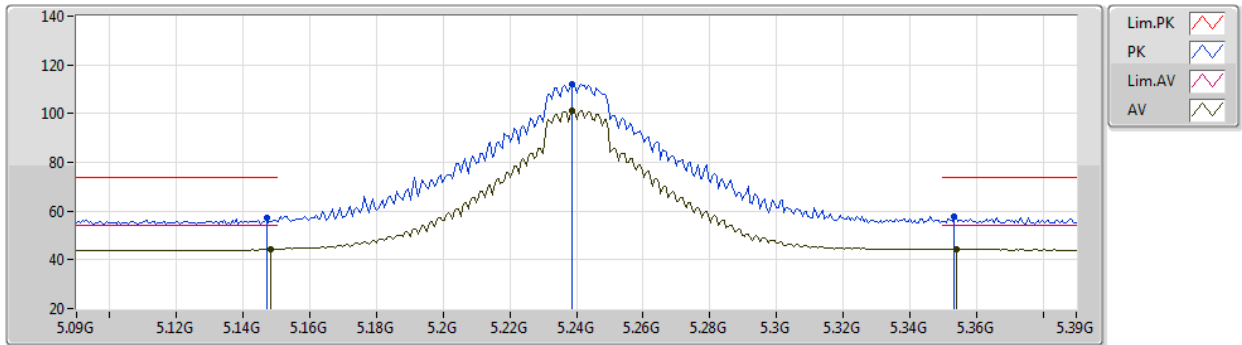
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.40174G	59.88	68.20	-8.32	46.68	3	Horizontal	244	1.69	-	38.50	7.24	32.54
PK	15.6024G	60.08	74.00	-13.92	46.47	3	Horizontal	199	1.67	-	37.40	9.06	32.85
AV	15.60024G	46.00	54.00	-8.00	32.39	3	Horizontal	199	1.67	-	37.40	9.06	32.85

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5240MHz_TX



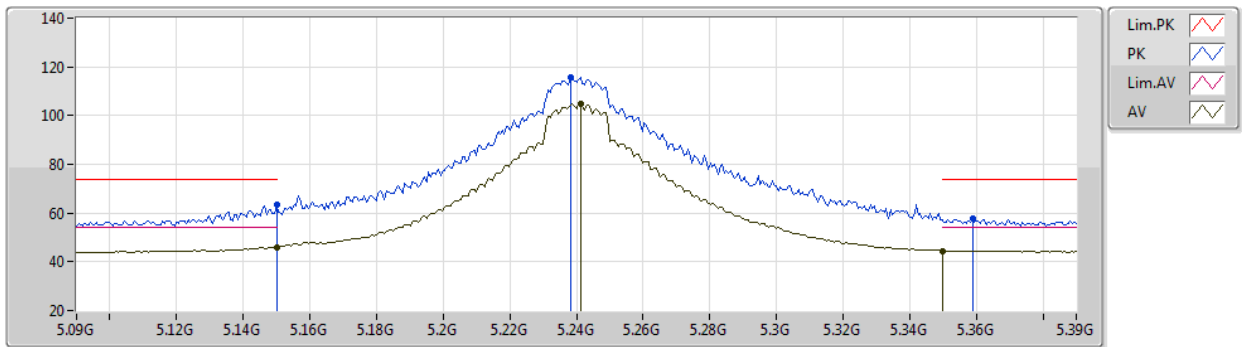
EUT Z_2TX
Setting 46
02-B-C-5-10

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	5.147G	57.25	74.00	-16.75	50.50	3	Vertical	27	2.46	-	33.49	4.99	31.73
AV	5.1482G	44.23	54.00	-9.77	37.46	3	Vertical	27	2.46	-	33.50	5.00	31.73
PK	5.2388G	112.06	Inf	-Inf	105.06	3	Vertical	27	2.46	-	33.58	5.08	31.66
AV	5.2388G	101.46	Inf	-Inf	94.46	3	Vertical	27	2.46	-	33.58	5.08	31.66
PK	5.3534G	57.95	74.00	-16.05	50.71	3	Vertical	27	2.46	-	33.80	5.02	31.58
AV	5.354G	44.45	54.00	-9.55	37.21	3	Vertical	27	2.46	-	33.80	5.02	31.58

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5240MHz_TX



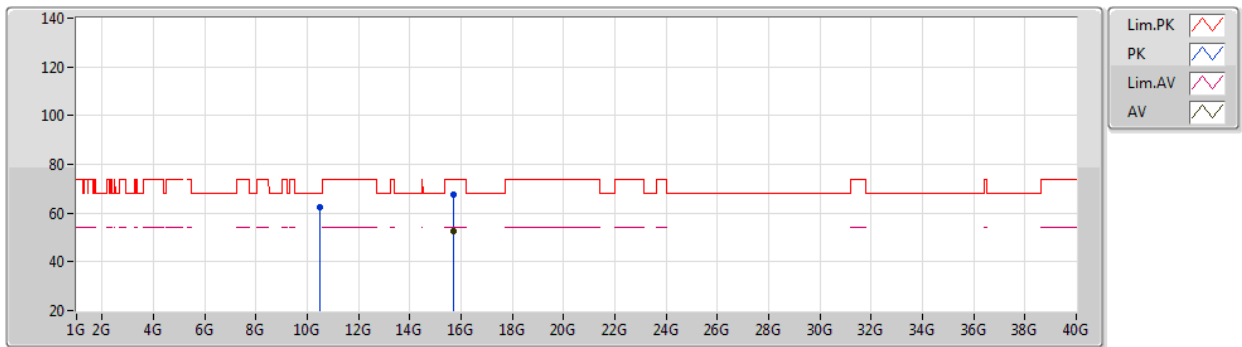
EUT Z_2TX
Setting 46
02-B-C-5-10

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	5.15G	63.47	74.00	-10.53	56.70	3	Horizontal	193	2.90	-	33.50	5.00	31.73
AV	5.15G	45.95	54.00	-8.05	39.18	3	Horizontal	193	2.90	-	33.50	5.00	31.73
PK	5.2382G	115.75	Inf	-Inf	108.75	3	Horizontal	193	2.90	-	33.58	5.08	31.66
AV	5.2412G	104.89	Inf	-Inf	97.89	3	Horizontal	193	2.90	-	33.58	5.08	31.66
PK	5.3588G	57.58	74.00	-16.42	50.33	3	Horizontal	193	2.90	-	33.80	5.02	31.57
AV	5.35G	44.51	54.00	-9.49	37.27	3	Horizontal	193	2.90	-	33.80	5.02	31.58

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5240MHz_TX



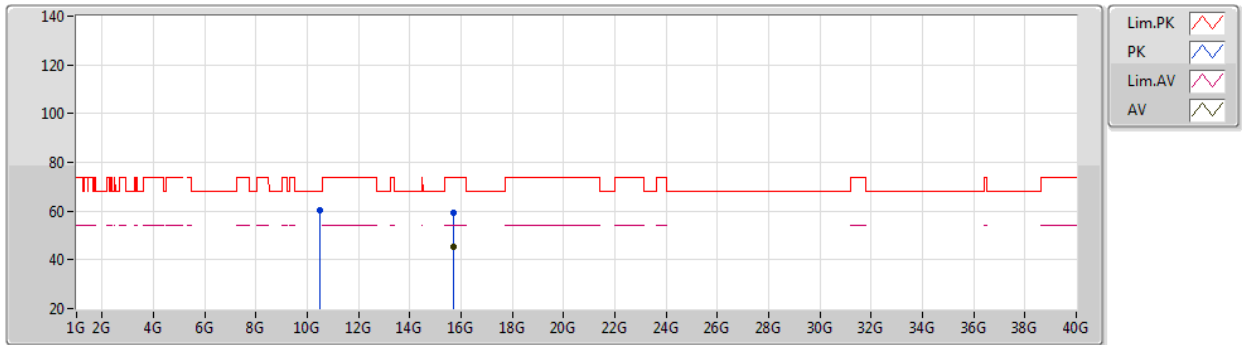
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.47952G	62.40	68.20	-5.80	49.18	3	Vertical	314	1.79	-	38.50	7.27	32.55
PK	15.72066G	67.70	74.00	-6.30	54.00	3	Vertical	278	2.36	-	37.46	9.10	32.86
AV	15.72084G	52.62	54.00	-1.38	38.92	3	Vertical	278	2.36	-	37.46	9.10	32.86

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5240MHz_TX



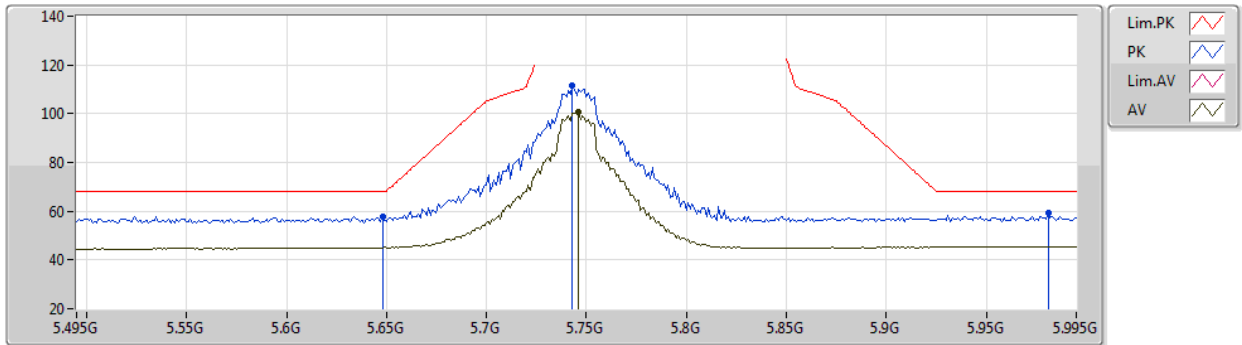
EUT_Z_2TX
Setting 46
02-B-C-5

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	10.47946G	60.56	68.20	-7.64	47.34	3	Horizontal	238	1.73	-	38.50	7.27	32.55
PK	15.71784G	59.38	74.00	-14.62	45.68	3	Horizontal	195	1.86	-	37.46	9.10	32.86
AV	15.72024G	45.50	54.00	-8.50	31.80	3	Horizontal	195	1.86	-	37.46	9.10	32.86

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5745MHz_TX



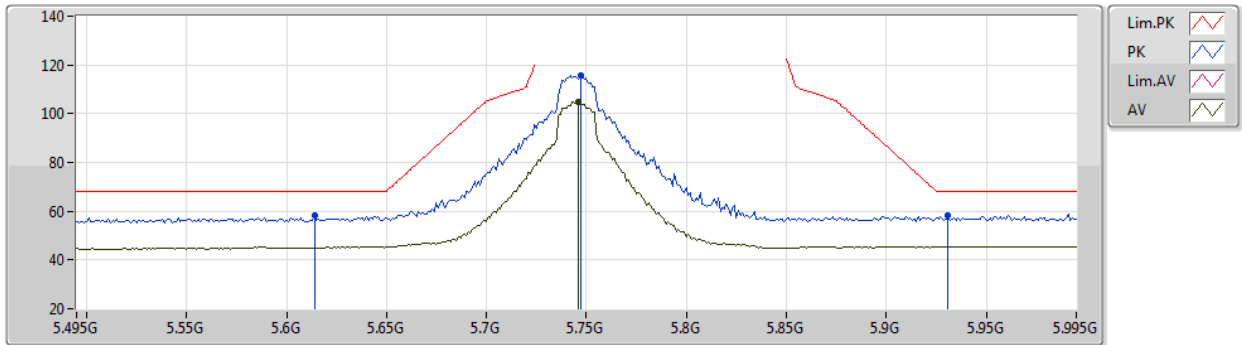
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.648G	57.72	68.20	-10.48	50.13	3	Vertical	35	2.07	-	33.90	5.15	31.46
PK	5.743G	111.76	Inf	-Inf	104.36	3	Vertical	35	2.07	-	33.80	5.06	31.46
AV	5.746G	100.56	Inf	-Inf	93.17	3	Vertical	35	2.07	-	33.80	5.05	31.46
PK	5.981G	59.10	68.20	-9.10	50.85	3	Vertical	35	2.07	-	34.16	5.54	31.45

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5745MHz_TX



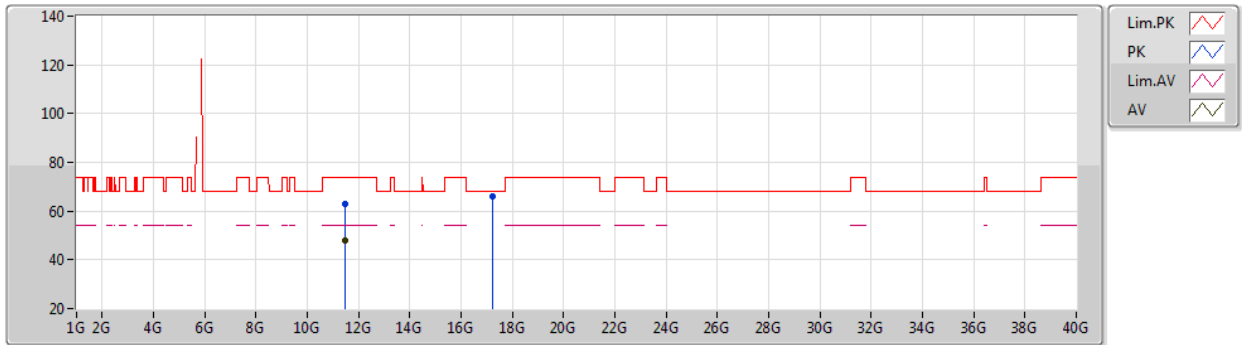
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.614G	58.13	68.20	-10.07	50.51	3	Horizontal	11	2.05	-	33.90	5.19	31.47
PK	5.747G	115.85	Inf	-Inf	108.46	3	Horizontal	11	2.05	-	33.80	5.05	31.46
AV	5.746G	104.81	Inf	-Inf	97.42	3	Horizontal	11	2.05	-	33.80	5.05	31.46
PK	5.931G	58.44	68.20	-9.76	50.40	3	Horizontal	11	2.05	-	34.10	5.39	31.45

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5745MHz_TX



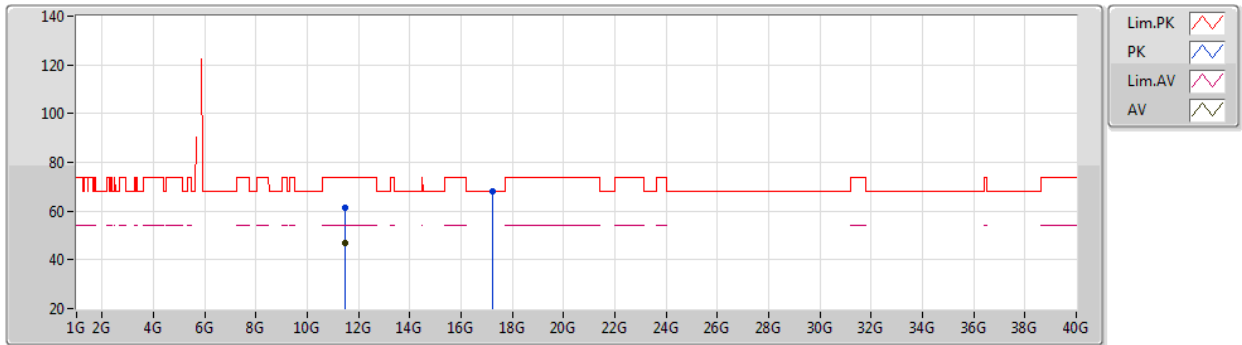
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.49096G	62.99	74.00	-11.01	49.32	3	Vertical	318	1.69	-	38.98	7.62	32.93
AV	11.4912G	48.00	54.00	-6.00	34.33	3	Vertical	318	1.69	-	38.98	7.62	32.93
PK	17.2392G	66.11	68.20	-2.09	47.36	3	Vertical	219	2.76	-	42.36	9.32	32.93

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5745MHz_TX



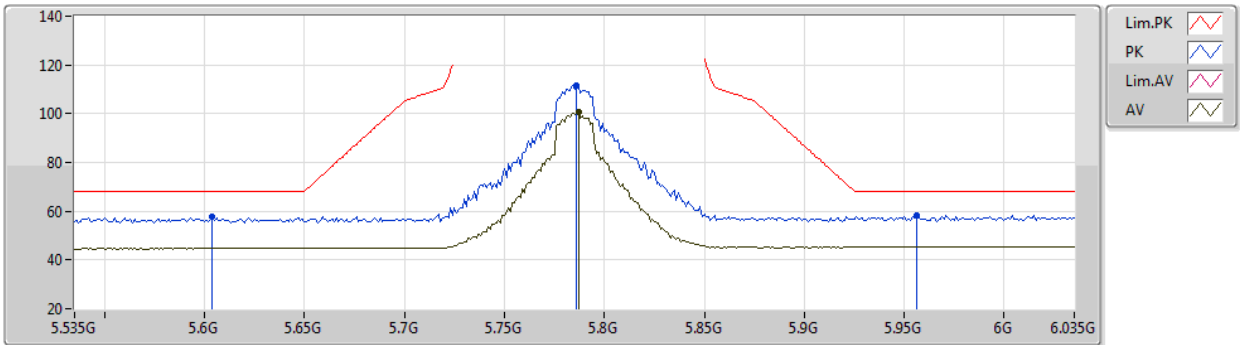
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.49138G	61.31	74.00	-12.69	47.64	3	Horizontal	89	1.82	-	38.98	7.62	32.93
AV	11.49156G	47.04	54.00	-6.96	33.37	3	Horizontal	89	1.82	-	38.98	7.62	32.93
PK	17.23572G	68.05	68.20	-0.15	49.32	3	Horizontal	235	1.63	-	42.34	9.32	32.93

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5785MHz_TX



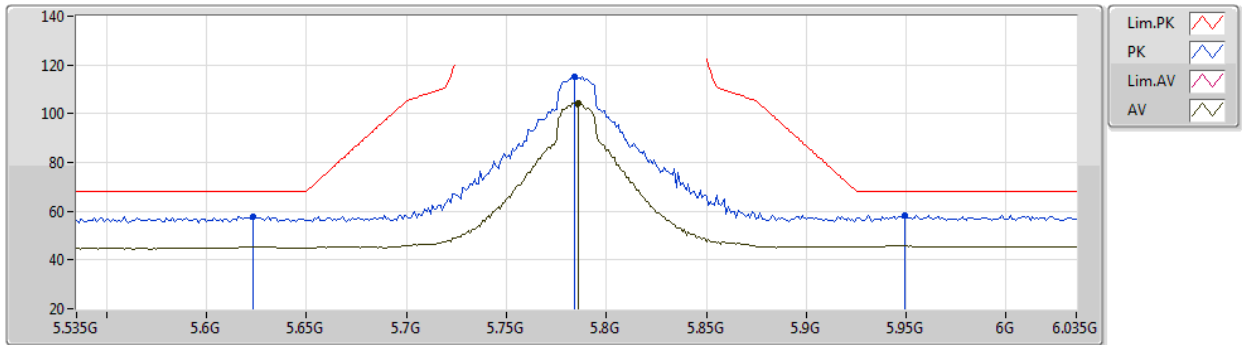
EUT Z_2TX
Setting 46
02-B-C-5-10

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	5.604G	57.65	68.20	-10.55	50.02	3	Vertical	40	2.85	-	33.90	5.20	31.47
PK	5.786G	111.37	Inf	-Inf	104.02	3	Vertical	40	2.85	-	33.80	5.01	31.46
AV	5.787G	100.45	Inf	-Inf	93.10	3	Vertical	40	2.85	-	33.80	5.01	31.46
PK	5.956G	58.24	68.20	-9.96	50.11	3	Vertical	40	2.85	-	34.11	5.47	31.45

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5785MHz_TX



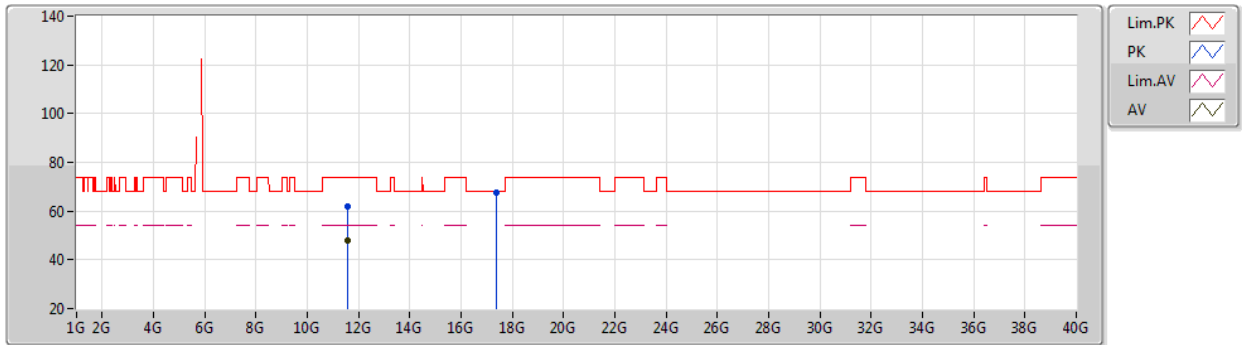
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.623G	57.97	68.20	-10.23	50.36	3	Horizontal	360	2.01	-	33.90	5.18	31.47
PK	5.784G	115.14	Inf	-Inf	107.78	3	Horizontal	360	2.01	-	33.80	5.02	31.46
AV	5.786G	104.45	Inf	-Inf	97.10	3	Horizontal	360	2.01	-	33.80	5.01	31.46
PK	5.949G	58.52	68.20	-9.68	50.42	3	Horizontal	360	2.01	-	34.10	5.45	31.45

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5785MHz_TX



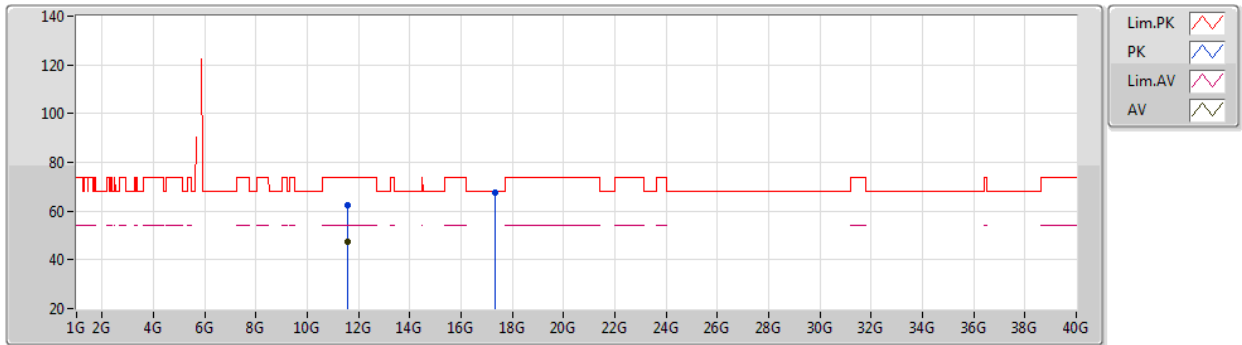
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.57108G	61.97	74.00	-12.03	48.04	3	Vertical	312	1.70	-	39.21	7.65	32.93
AV	11.57138G	47.87	54.00	-6.13	33.94	3	Vertical	312	1.70	-	39.21	7.65	32.93
PK	17.35554G	67.42	68.20	-0.78	47.96	3	Vertical	222	2.77	-	43.04	9.34	32.92

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5785MHz_TX



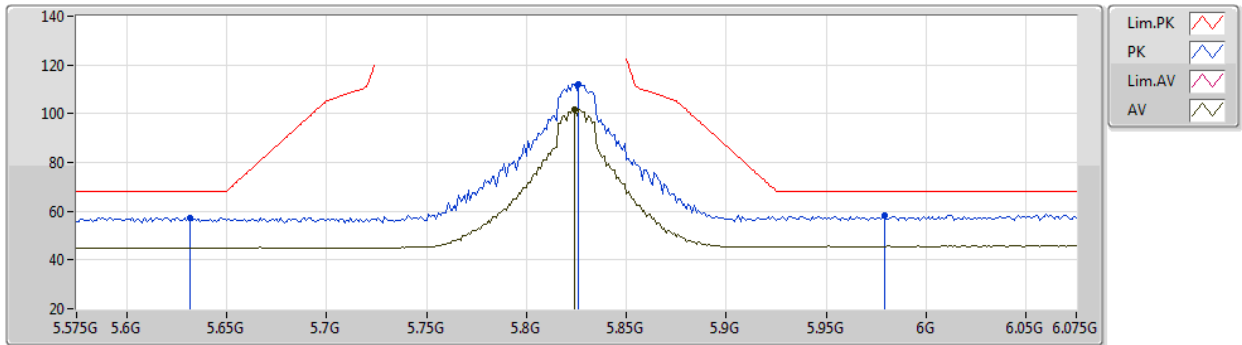
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.5736G	62.42	74.00	-11.58	48.48	3	Horizontal	88	1.72	-	39.22	7.65	32.93
AV	11.57138G	47.64	54.00	-6.36	33.71	3	Horizontal	88	1.72	-	39.21	7.65	32.93
PK	17.35122G	67.55	68.20	-0.65	48.12	3	Horizontal	301	1.40	-	43.01	9.34	32.92

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5825MHz_TX



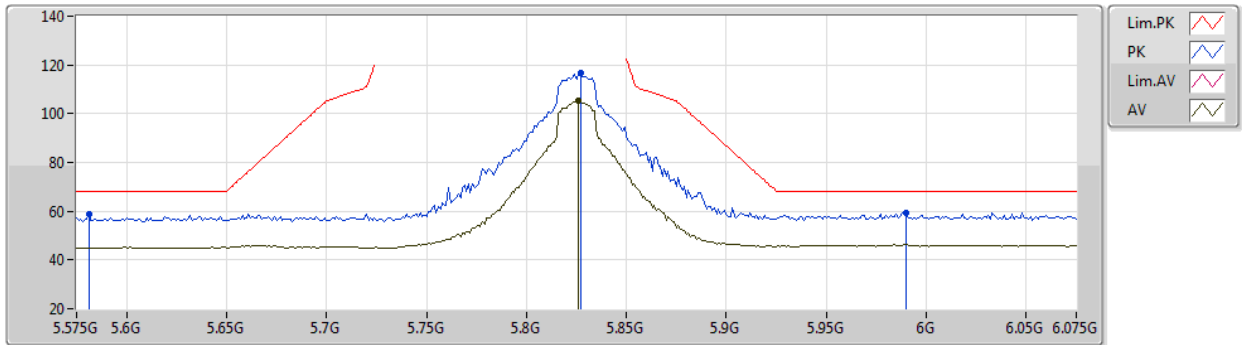
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.632G	57.34	68.20	-10.86	49.73	3	Vertical	269	1.98	-	33.90	5.17	31.46
PK	5.826G	112.03	Inf	-Inf	104.56	3	Vertical	269	1.98	-	33.85	5.08	31.46
AV	5.824G	101.87	Inf	-Inf	94.41	3	Vertical	269	1.98	-	33.85	5.07	31.46
PK	5.979G	58.08	68.20	-10.12	49.83	3	Vertical	269	1.98	-	34.16	5.54	31.45

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5825MHz_TX



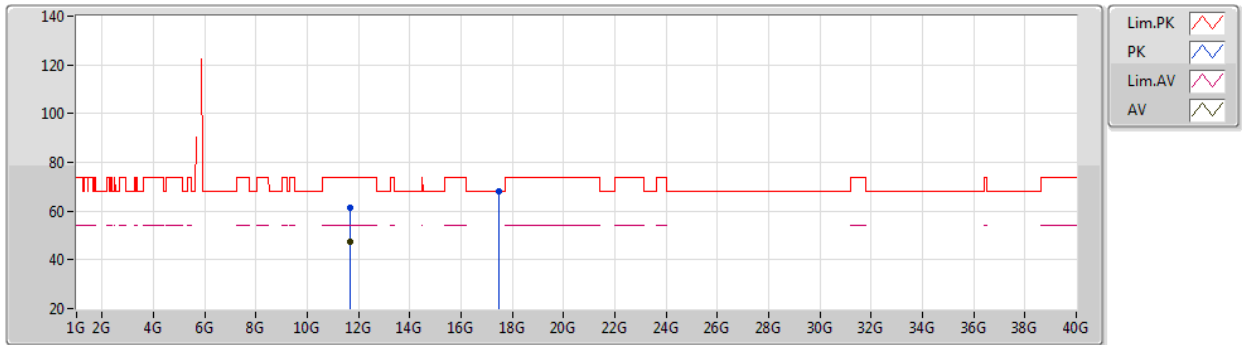
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.581G	58.90	68.20	-9.30	51.29	3	Horizontal	355	2.90	-	33.90	5.18	31.47
PK	5.827G	116.78	Inf	-Inf	109.31	3	Horizontal	355	2.90	-	33.85	5.08	31.46
AV	5.826G	105.22	Inf	-Inf	97.75	3	Horizontal	355	2.90	-	33.85	5.08	31.46
PK	5.99G	59.27	68.20	-8.93	50.97	3	Horizontal	355	2.90	-	34.18	5.57	31.45

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5825MHz_TX



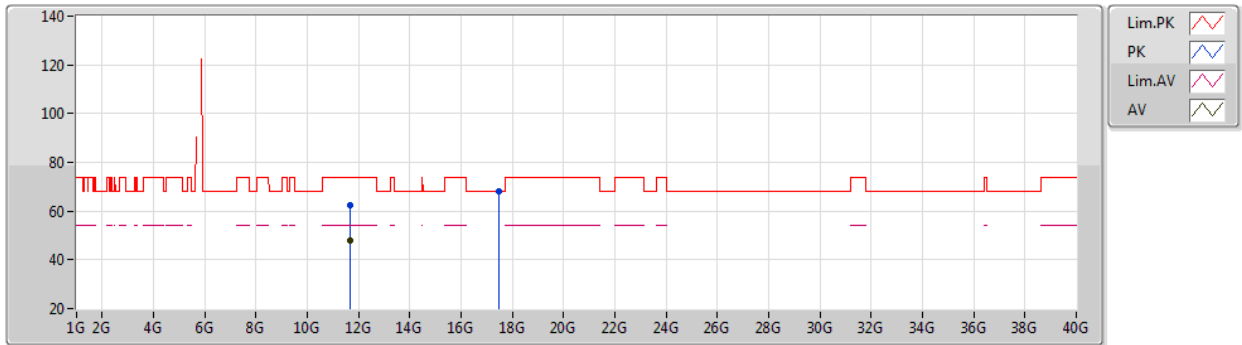
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.65114G	61.46	74.00	-12.54	47.31	3	Vertical	315	1.00	-	39.40	7.68	32.93
AV	11.6515G	47.30	54.00	-6.70	33.15	3	Vertical	315	1.00	-	39.40	7.68	32.93
PK	17.47926G	68.10	68.20	-0.10	47.70	3	Vertical	220	2.70	-	43.95	9.35	32.90

802.11ac VHT20_Nss1,(MCS0)_2TX

04/03/2021

5825MHz_TX



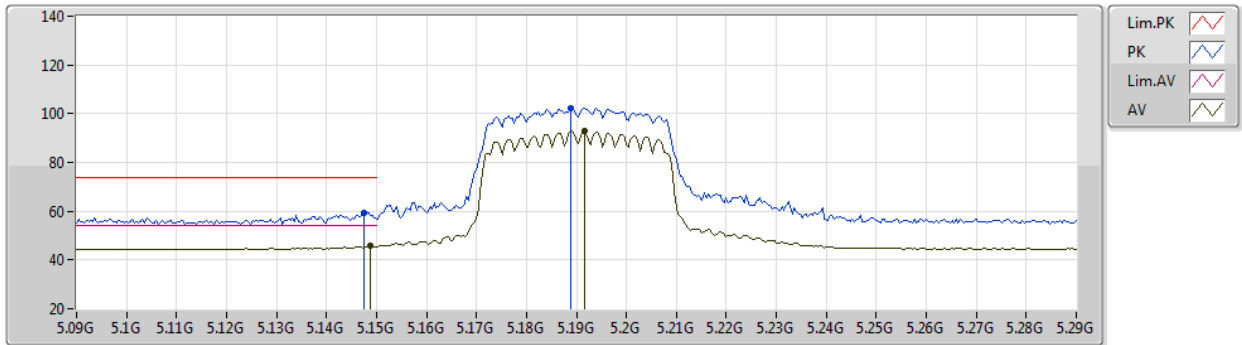
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.6515G	62.53	74.00	-11.47	48.38	3	Horizontal	115	2.84	-	39.40	7.68	32.93
AV	11.65144G	47.99	54.00	-6.01	33.84	3	Horizontal	115	2.84	-	39.40	7.68	32.93
PK	17.47914G	68.08	68.20	-0.12	47.68	3	Horizontal	300	1.41	-	43.95	9.35	32.90

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5190MHz_TX



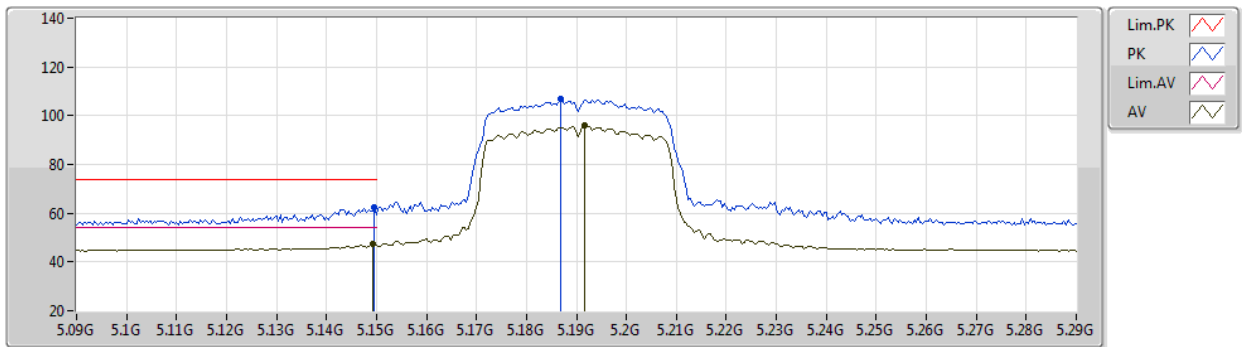
EUT_Z_2TX
Setting 29
02-B-C-5-10

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	59.50	74.00	-14.50	52.73	3	Vertical	20	2.37	-	33.50	5.00	31.73	
AV	5.1488G	45.71	54.00	-8.29	38.94	3	Vertical	20	2.37	-	33.50	5.00	31.73	
PK	5.1888G	102.45	Inf	-Inf	95.57	3	Vertical	20	2.37	-	33.50	5.08	31.70	
AV	5.1916G	92.98	Inf	-Inf	86.10	3	Vertical	20	2.37	-	33.50	5.08	31.70	

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5190MHz_TX



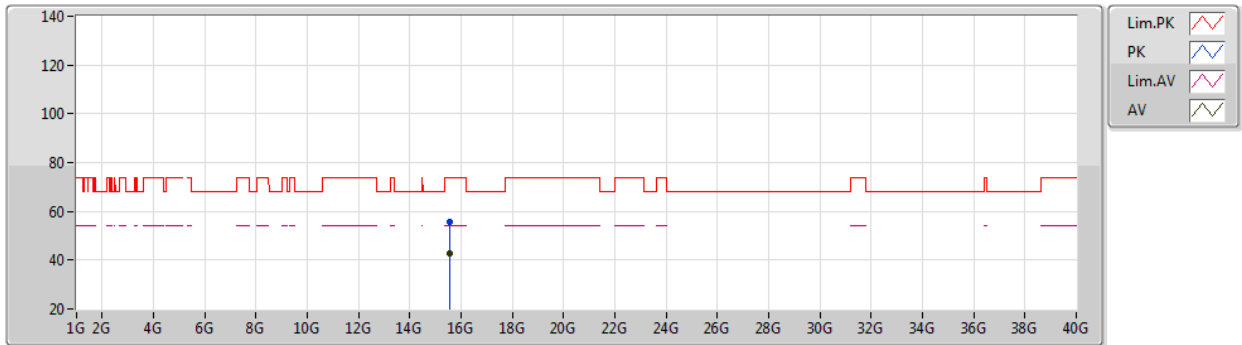
EUT_Z_2TX
Setting 29
02-B-C-5-10

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	62.19	74.00	-11.81	55.42	3	Horizontal	346	2.14	-	33.50	5.00	31.73
AV	5.1492G	47.17	54.00	-6.83	40.40	3	Horizontal	346	2.14	-	33.50	5.00	31.73
PK	5.1868G	106.69	Inf	-Inf	99.82	3	Horizontal	346	2.14	-	33.50	5.07	31.70
AV	5.1916G	95.78	Inf	-Inf	88.90	3	Horizontal	346	2.14	-	33.50	5.08	31.70

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5190MHz_TX



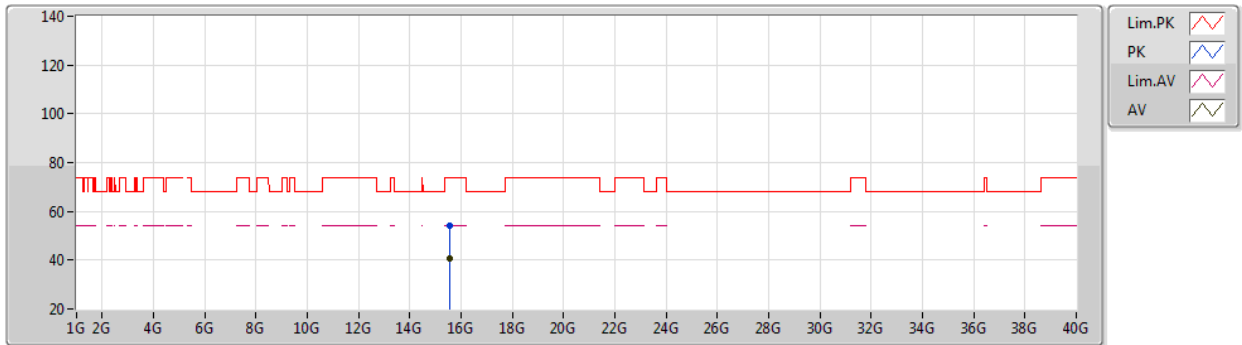
EUT_Z_2TX
Setting 29
02-B-C-5

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	15.57594G	55.55	74.00	-18.45	41.85	3	Vertical	277	2.40	-	37.50	9.05	32.85
AV	15.56862G	42.52	54.00	-11.48	28.79	3	Vertical	277	2.40	-	37.53	9.05	32.85

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5190MHz_TX



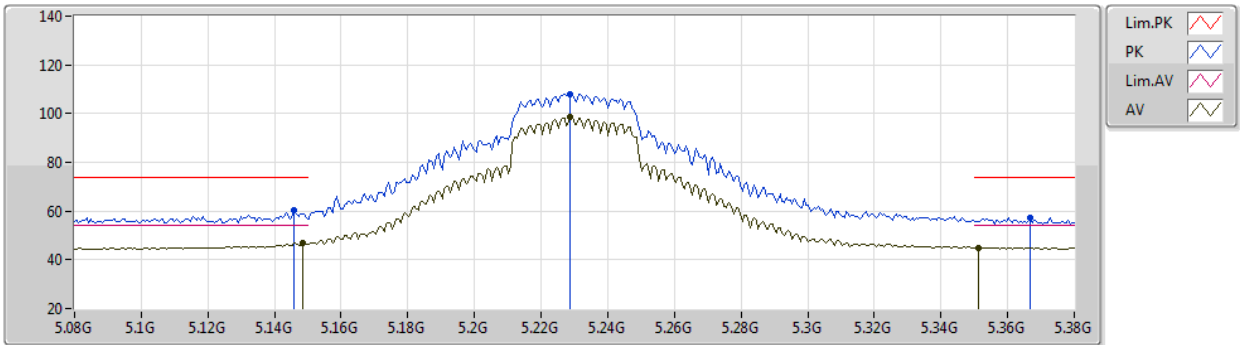
EUT_Z_2TX
Setting 29
02-B-C-5

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	15.56238G	53.95	74.00	-20.05	40.19	3	Horizontal	197	1.73	-	37.55	9.05	32.84
AV	15.57504G	40.69	54.00	-13.31	26.99	3	Horizontal	197	1.73	-	37.50	9.05	32.85

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5230MHz_TX



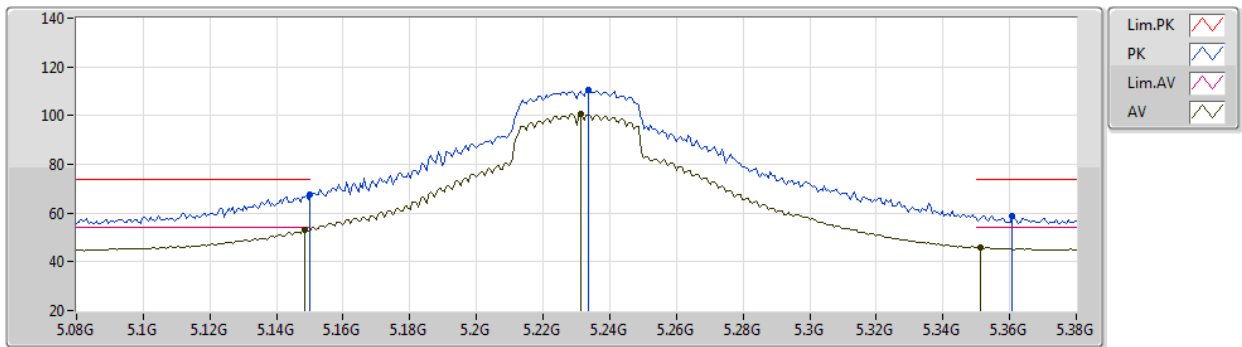
EUT_Z_2TX
Setting 40
02-B-C-5-10

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	5.146G	60.25	74.00	-13.75	53.50	3	Vertical	28	2.70	-	33.49	4.99	31.73
AV	5.1484G	46.82	54.00	-7.18	40.05	3	Vertical	28	2.70	-	33.50	5.00	31.73
PK	5.2288G	108.09	Inf	-Inf	101.11	3	Vertical	28	2.70	-	33.56	5.09	31.67
AV	5.2288G	98.79	Inf	-Inf	91.81	3	Vertical	28	2.70	-	33.56	5.09	31.67
PK	5.3668G	57.27	74.00	-16.73	50.02	3	Vertical	28	2.70	-	33.80	5.02	31.57
AV	5.3512G	45.02	54.00	-8.98	37.78	3	Vertical	28	2.70	-	33.80	5.02	31.58

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5230MHz_TX



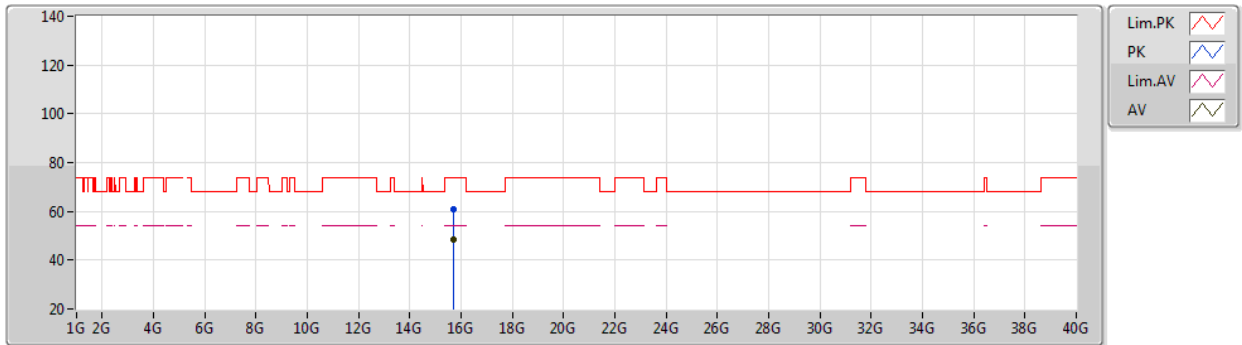
EUT_Z_2TX
Setting 40
02-B-C-5-10

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	5.15G	67.54	74.00	-6.46	60.77	3	Horizontal	193	2.90	-	33.50	5.00	31.73
AV	5.1484G	53.17	54.00	-0.83	46.40	3	Horizontal	193	2.90	-	33.50	5.00	31.73
PK	5.2336G	110.41	Inf	-Inf	103.43	3	Horizontal	193	2.90	-	33.57	5.08	31.67
AV	5.2312G	100.62	Inf	-Inf	93.65	3	Horizontal	193	2.90	-	33.56	5.08	31.67
PK	5.3608G	59.05	74.00	-14.95	51.80	3	Horizontal	193	2.90	-	33.80	5.02	31.57
AV	5.3512G	45.77	54.00	-8.23	38.53	3	Horizontal	193	2.90	-	33.80	5.02	31.58

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5230MHz_TX



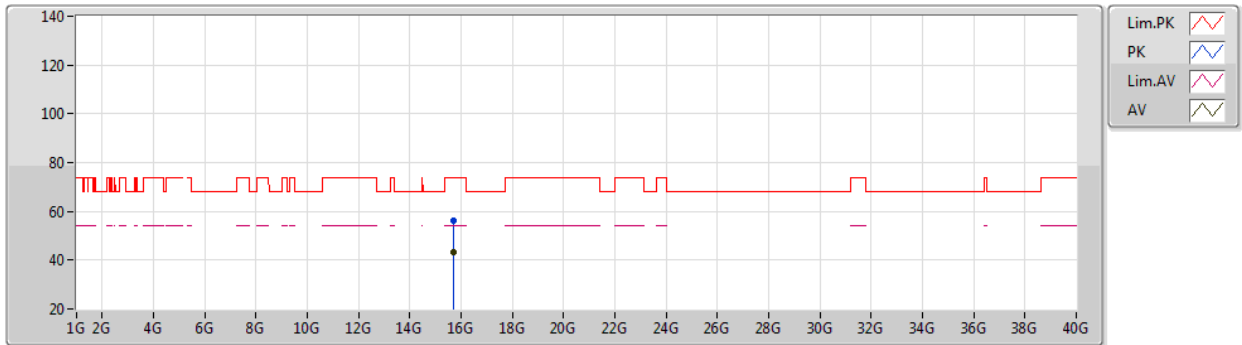
EUT_Z_2TX
Setting 40
02-B-C-5

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	15.69384G	60.82	74.00	-13.18	47.10	3	Vertical	277	2.36	-	37.49	9.09	32.86	
AV	15.68824G	48.49	54.00	-5.51	34.77	3	Vertical	277	2.36	-	37.49	9.09	32.86	

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5230MHz_TX



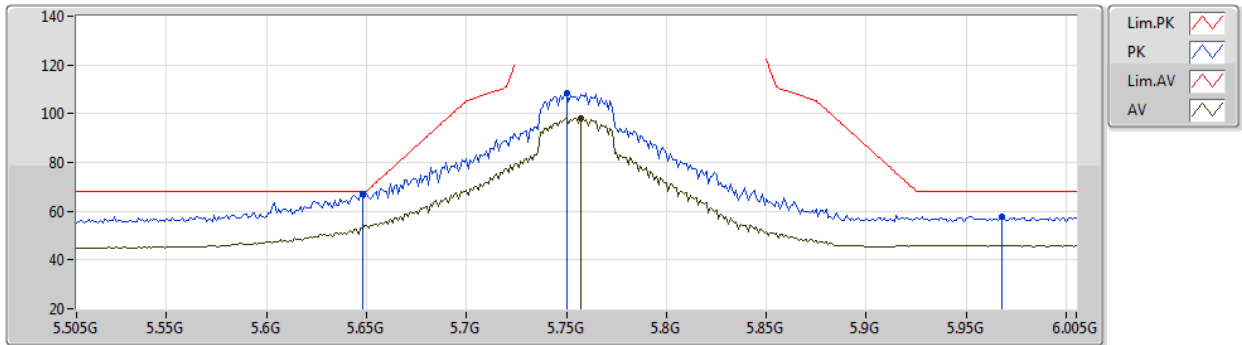
EUT_Z_2TX
Setting 40
02-B-C-5

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	15.68312G	56.22	74.00	-17.78	42.50	3	Horizontal	196	1.72	-	37.48	9.09	32.85
AV	15.68536G	43.27	54.00	-10.73	29.54	3	Horizontal	196	1.72	-	37.49	9.09	32.85

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5755MHz_TX



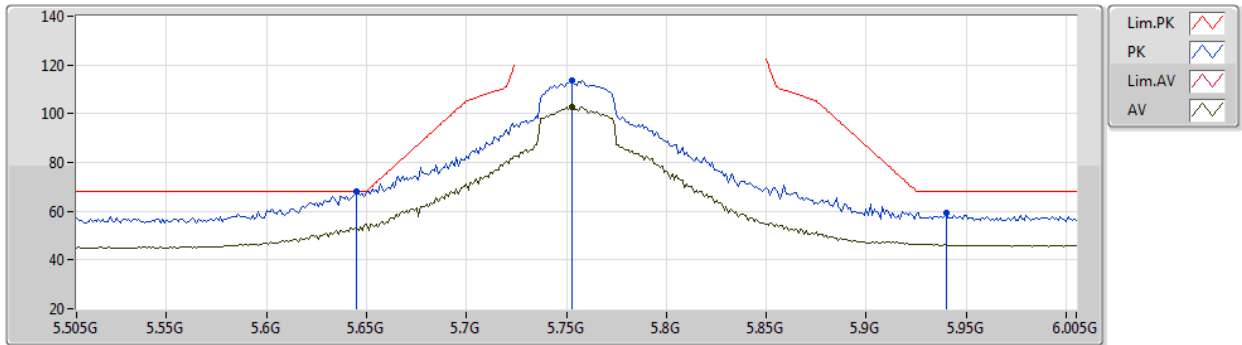
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.648G	67.01	68.20	-1.19	59.42	3	Vertical	33	1.89	-	33.90	5.15	31.46
PK	5.75G	108.62	Inf	-Inf	101.23	3	Vertical	33	1.89	-	33.80	5.05	31.46
AV	5.757G	98.34	Inf	-Inf	90.96	3	Vertical	33	1.89	-	33.80	5.04	31.46
PK	5.968G	57.92	68.20	-10.28	49.73	3	Vertical	33	1.89	-	34.14	5.50	31.45

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5755MHz_TX



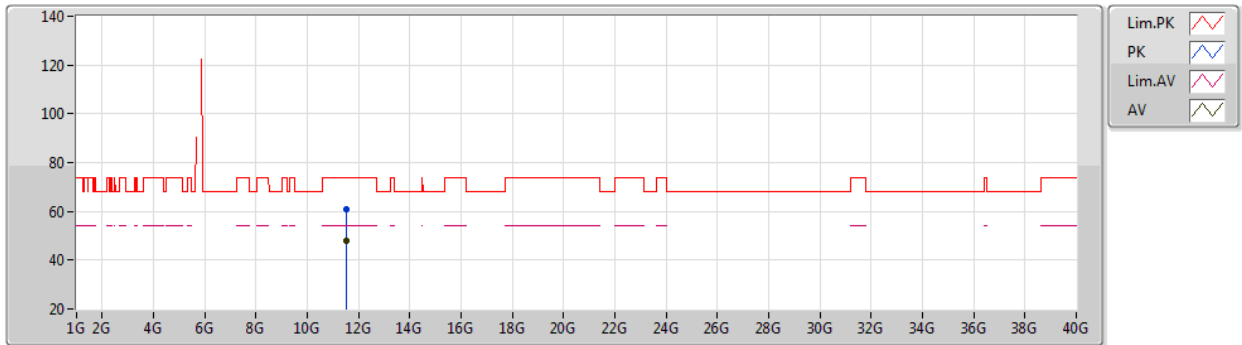
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.645G	67.98	68.20	-0.22	60.38	3	Horizontal	355	2.83	-	33.90	5.16	31.46
PK	5.753G	113.47	Inf	-Inf	106.08	3	Horizontal	355	2.83	-	33.80	5.05	31.46
AV	5.753G	102.84	Inf	-Inf	95.45	3	Horizontal	355	2.83	-	33.80	5.05	31.46
PK	5.94G	59.36	68.20	-8.84	51.29	3	Horizontal	355	2.83	-	34.10	5.42	31.45

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5755MHz_TX



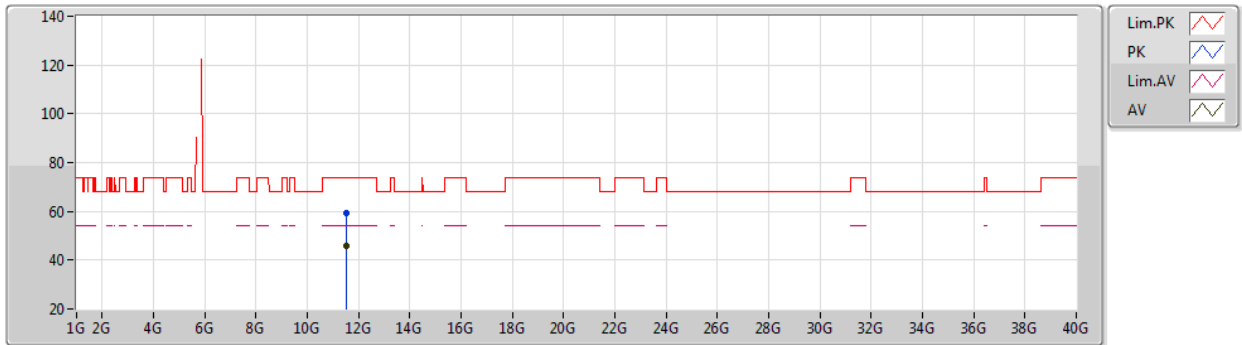
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.51032G	60.96	74.00	-13.04	47.23	3	Vertical	277	2.85	-	39.03	7.63	32.93
AV	11.51064G	48.06	54.00	-5.94	34.33	3	Vertical	277	2.85	-	39.03	7.63	32.93

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5755MHz_TX



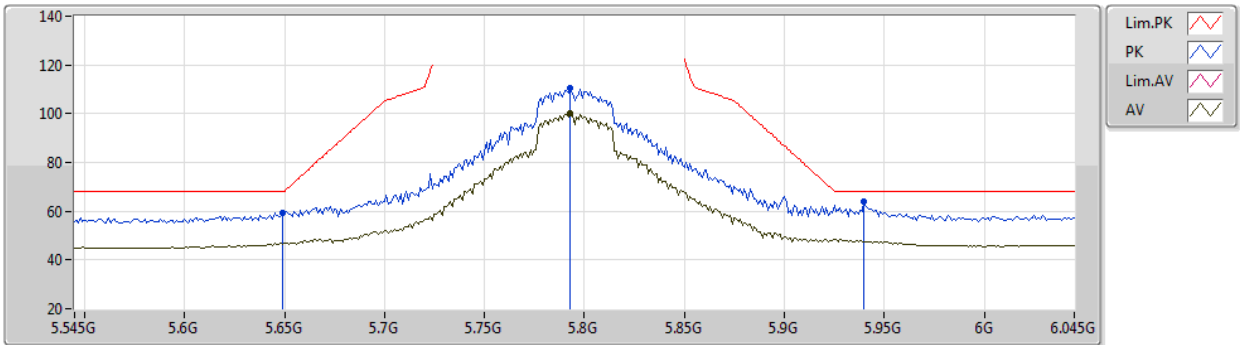
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.50888G	59.42	74.00	-14.58	45.69	3	Horizontal	88	1.80	-	39.03	7.63	32.93
AV	11.514G	45.66	54.00	-8.34	31.92	3	Horizontal	88	1.80	-	39.04	7.63	32.93

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5795MHz_TX



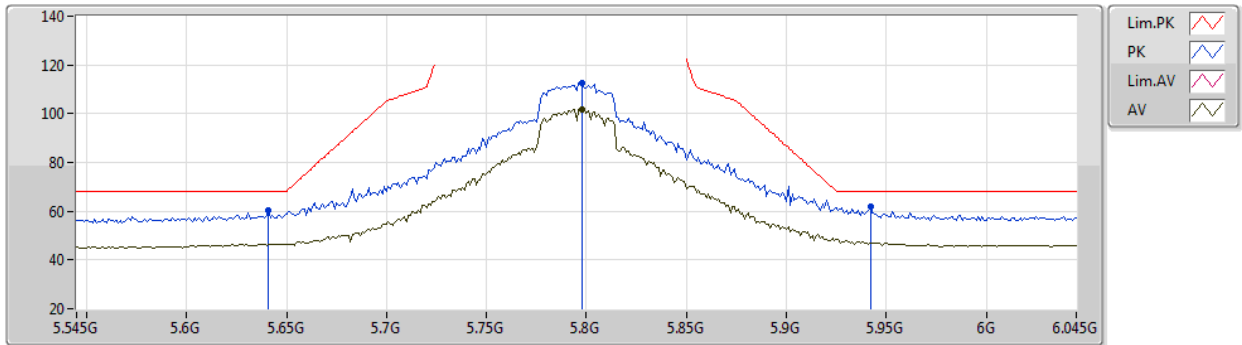
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.649G	59.36	68.20	-8.84	51.77	3	Vertical	76	2.86	-	33.90	5.15	31.46
PK	5.793G	110.74	Inf	-Inf	103.39	3	Vertical	76	2.86	-	33.80	5.01	31.46
AV	5.793G	100.30	Inf	-Inf	92.95	3	Vertical	76	2.86	-	33.80	5.01	31.46
PK	5.94G	64.17	68.20	-4.03	56.10	3	Vertical	76	2.86	-	34.10	5.42	31.45

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5795MHz_TX



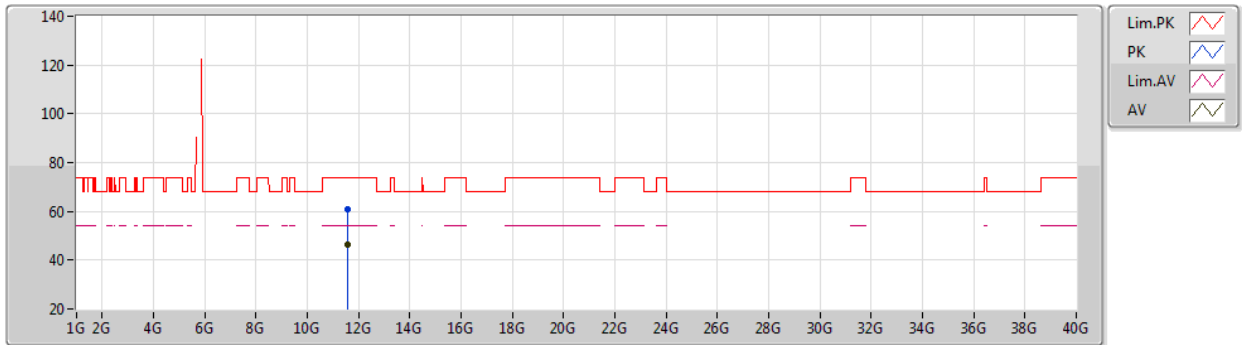
EUT_Z_2TX
Setting 46
02-B-C-5-10

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	5.641G	60.27	68.20	-7.93	52.67	3	Horizontal	2	2.02	-	33.90	5.16	31.46
PK	5.798G	112.53	Inf	-Inf	105.19	3	Horizontal	2	2.02	-	33.80	5.00	31.46
AV	5.798G	101.55	Inf	-Inf	94.21	3	Horizontal	2	2.02	-	33.80	5.00	31.46
PK	5.942G	61.76	68.20	-6.44	53.68	3	Horizontal	2	2.02	-	34.10	5.43	31.45

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5795MHz_TX



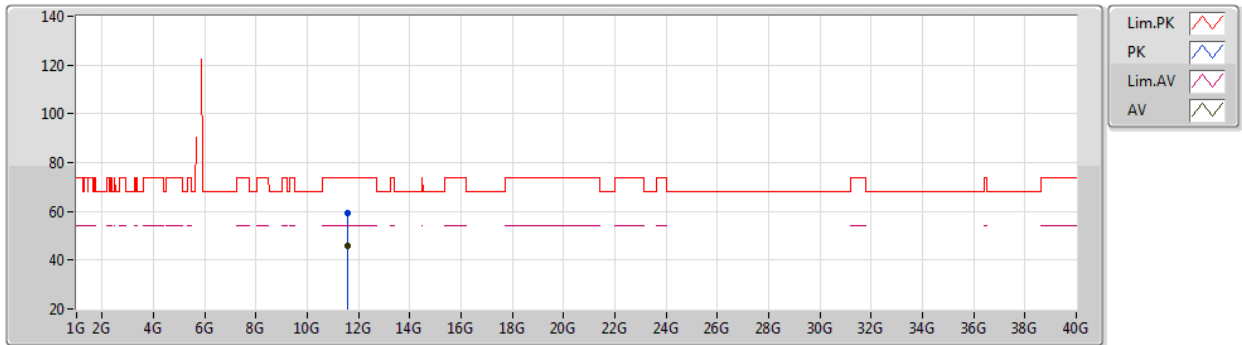
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.58888G	60.85	74.00	-13.15	46.85	3	Vertical	317	1.64	-	39.27	7.66	32.93
AV	11.59112G	46.59	54.00	-7.41	32.59	3	Vertical	317	1.64	-	39.27	7.66	32.93

802.11ac VHT40_Nss1,(MCS0)_2TX

04/03/2021

5795MHz_TX



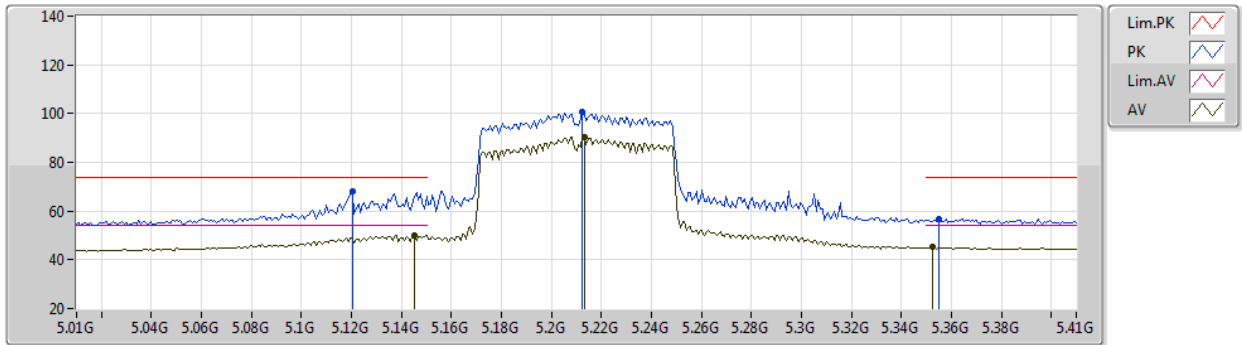
EUT_Z_2TX
Setting 46
02-B-C-5

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	11.5908G	59.35	74.00	-14.65	45.35	3	Horizontal	302	2.30	-	39.27	7.66	32.93
AV	11.59064G	45.93	54.00	-8.07	31.93	3	Horizontal	302	2.30	-	39.27	7.66	32.93

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5210MHz_TX



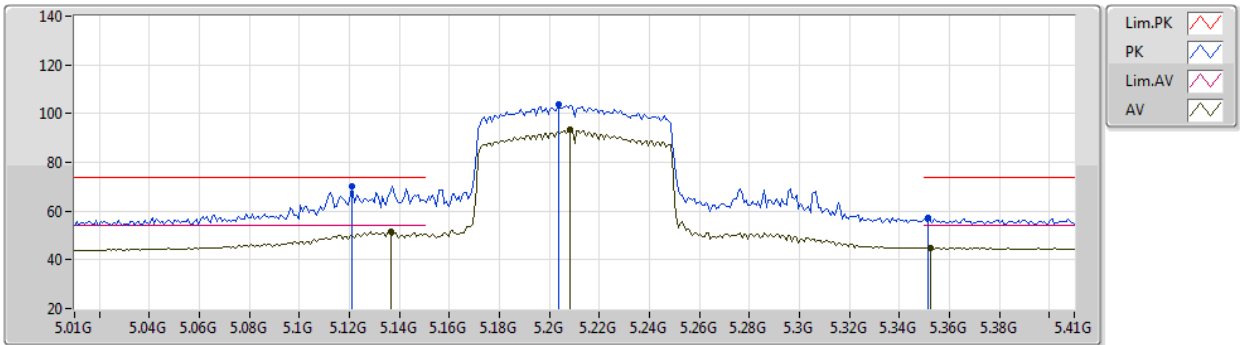
EUT_Z_2TX
Setting 29
02-B-C-5-10

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	5.1204G	68.05	74.00	-5.95	61.42	3	Vertical	23	2.34	-	33.44	4.94	31.75
AV	5.1452G	50.10	54.00	-3.90	43.35	3	Vertical	23	2.34	-	33.49	4.99	31.73
PK	5.2124G	100.60	Inf	-Inf	93.67	3	Vertical	23	2.34	-	33.52	5.09	31.68
AV	5.2132G	90.35	Inf	-Inf	83.41	3	Vertical	23	2.34	-	33.53	5.09	31.68
PK	5.3548G	56.83	74.00	-17.17	49.59	3	Vertical	23	2.34	-	33.80	5.02	31.58
AV	5.3524G	45.14	54.00	-8.86	37.90	3	Vertical	23	2.34	-	33.80	5.02	31.58

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5210MHz_TX



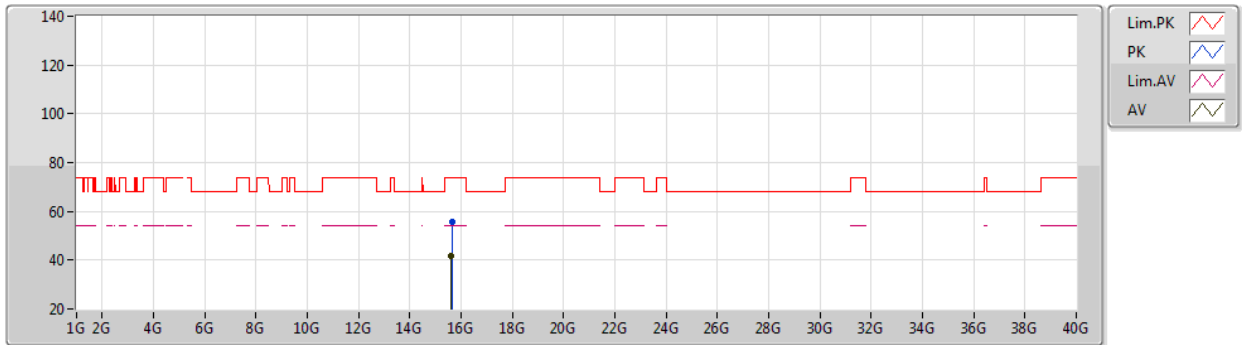
EUT_Z_2TX
Setting 29
02-B-C-5-10

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	5.1212G	70.33	74.00	-3.67	63.70	3	Horizontal	339	2.32	-	33.44	4.94	31.75
AV	5.1364G	51.43	54.00	-2.57	44.73	3	Horizontal	339	2.32	-	33.47	4.97	31.74
PK	5.2036G	103.86	Inf	-Inf	96.94	3	Horizontal	339	2.32	-	33.51	5.10	31.69
AV	5.2084G	93.52	Inf	-Inf	86.59	3	Horizontal	339	2.32	-	33.52	5.10	31.69
PK	5.3516G	57.38	74.00	-16.62	50.14	3	Horizontal	339	2.32	-	33.80	5.02	31.58
AV	5.3524G	44.92	54.00	-9.08	37.68	3	Horizontal	339	2.32	-	33.80	5.02	31.58

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5210MHz_TX



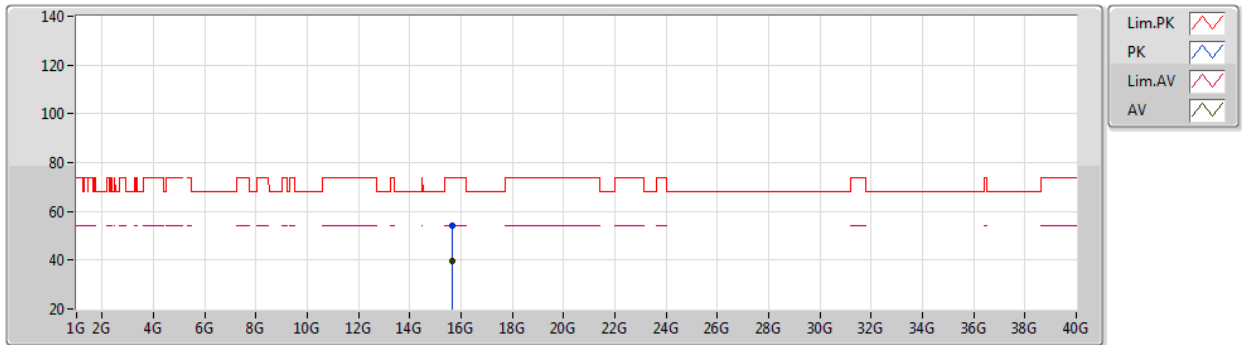
EUT_Z_2TX
Setting 29
02-B-C-5

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	15.63486G	55.65	74.00	-18.35	42.00	3	Vertical	275	2.35	-	37.43	9.07	32.85
AV	15.62232G	41.75	54.00	-12.25	28.11	3	Vertical	275	2.35	-	37.42	9.07	32.85

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5210MHz_TX



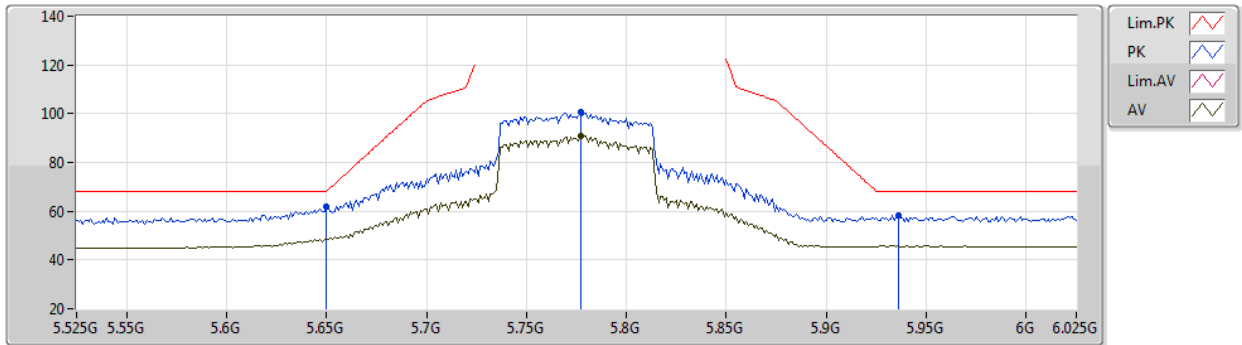
EUT_Z_2TX
Setting 29
02-B-C-5

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	15.64456G	54.10	74.00	-19.90	40.43	3	Horizontal	193	1.80	-	37.44	9.08	32.85
AV	15.6684G	39.82	54.00	-14.18	26.12	3	Horizontal	193	1.80	-	37.47	9.08	32.85

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5775MHz_TX



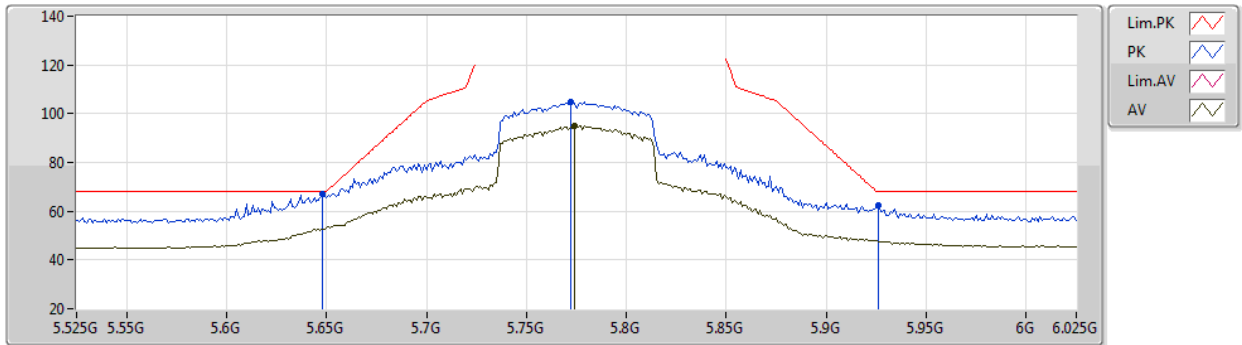
EUT Z_2TX
Setting 35
02-B-C-5-10

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	61.78	68.20	-6.42	54.19	3	Vertical	35	1.80	-	33.90	5.15	31.46
PK	5.777G	100.70	Inf	-Inf	93.34	3	Vertical	35	1.80	-	33.80	5.02	31.46
AV	5.777G	90.86	Inf	-Inf	83.50	3	Vertical	35	1.80	-	33.80	5.02	31.46
PK	5.936G	58.24	68.20	-9.96	50.18	3	Vertical	35	1.80	-	34.10	5.41	31.45

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5775MHz_TX



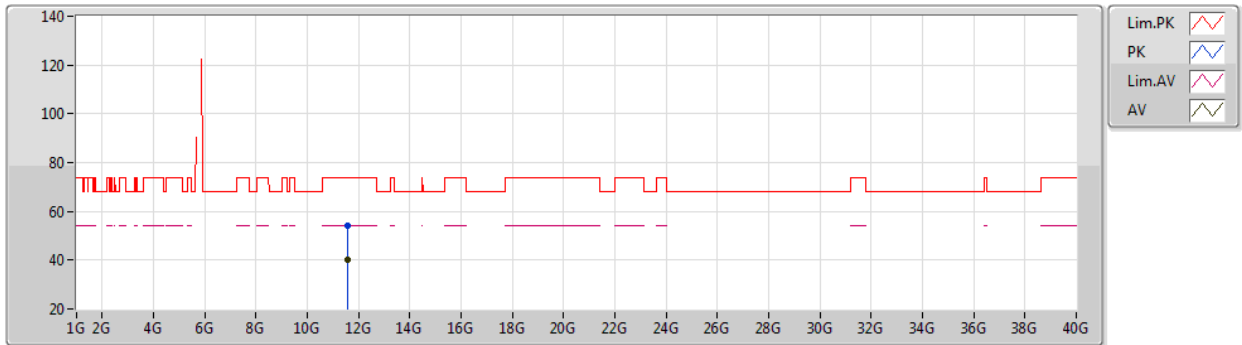
EUT_Z_2TX
Setting 35
02-B-C-5-10

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	5.648G	67.24	68.20	-0.96	59.65	3	Horizontal	202	2.80	-	33.90	5.15	31.46
PK	5.772G	104.64	Inf	-Inf	97.27	3	Horizontal	202	2.80	-	33.80	5.03	31.46
AV	5.774G	95.03	Inf	-Inf	87.66	3	Horizontal	202	2.80	-	33.80	5.03	31.46
PK	5.926G	62.25	68.20	-5.95	54.22	3	Horizontal	202	2.80	-	34.10	5.38	31.45

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5775MHz_TX



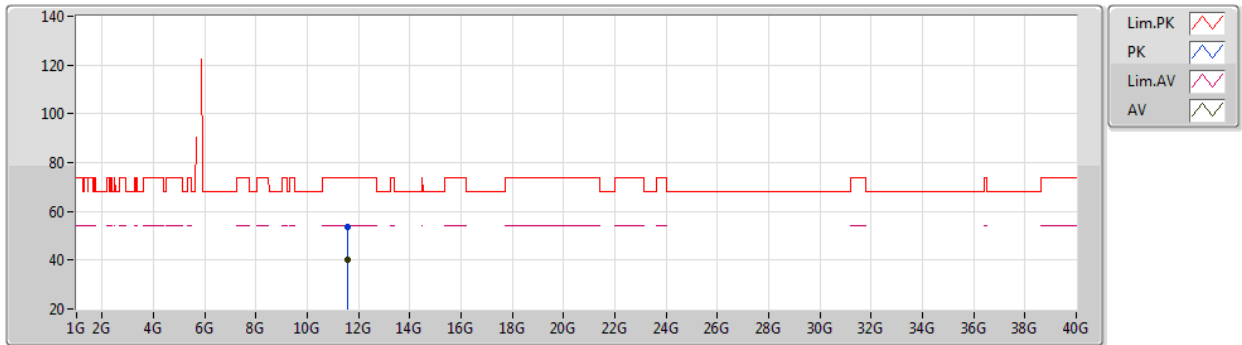
EUT_Z_2TX
Setting 35
02-B-C-5

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	11.56664G	53.91	74.00	-20.09	39.99	3	Vertical	294	2.75	-	39.20	7.65	32.93
AV	11.54952G	40.42	54.00	-13.58	26.56	3	Vertical	294	2.75	-	39.15	7.64	32.93

802.11ac VHT80_Nss1,(MCS0)_2TX

04/03/2021

5775MHz_TX



EUT_Z_2TX
Setting 35
02-B-C-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	11.57016G	53.50	74.00	-20.50	39.57	3	Horizontal	85	1.80	-	39.21	7.65	32.93
AV	11.57096G	40.39	54.00	-13.61	26.46	3	Horizontal	85	1.80	-	39.21	7.65	32.93



Radiated Emissions above 1GHz

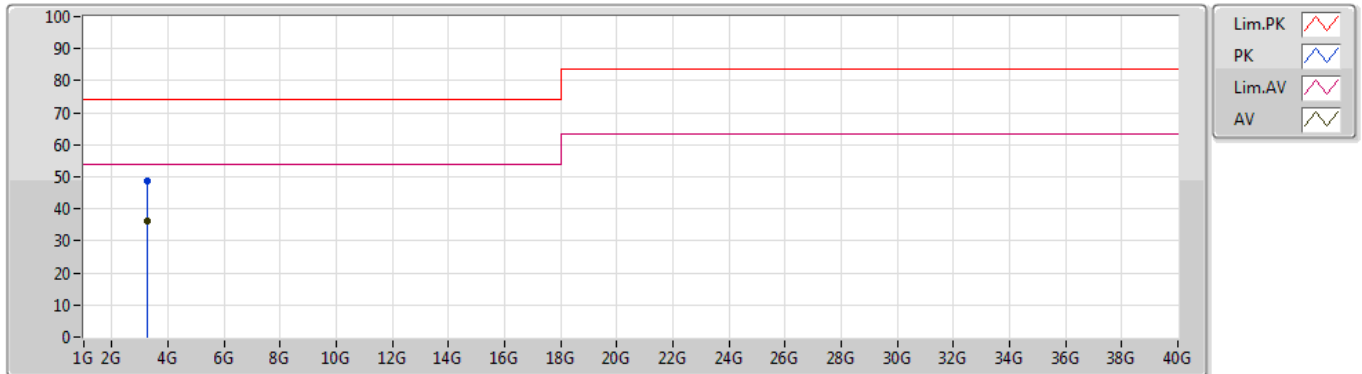
Appendix F

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.24934G	44.21	54.00	-9.79	Horizontal

Mode 1

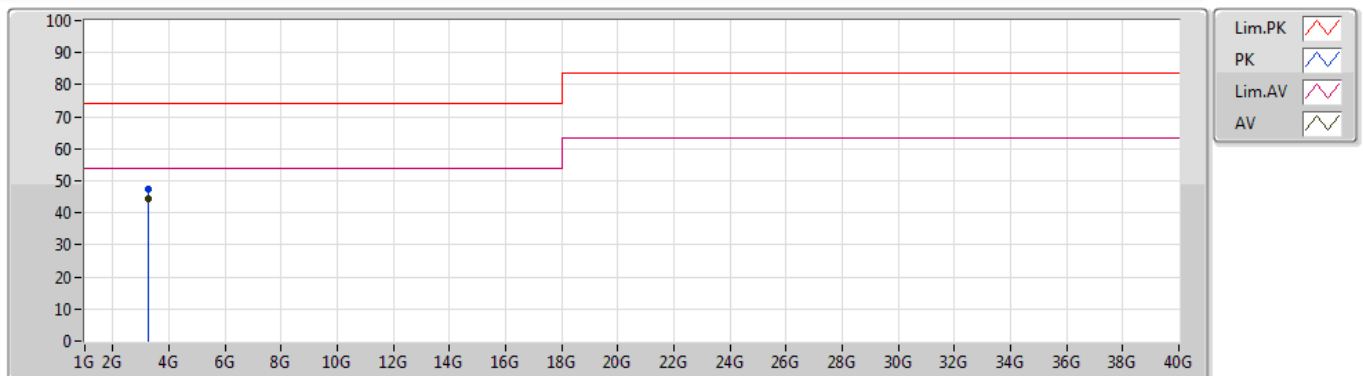
22/03/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	3.24913G	48.82	74.00	-25.18	-0.54	3	Vertical	153	1.73	-	49.36	28.41	3.82	32.77
AV	3.24994G	36.39	54.00	-17.61	-0.55	3	Vertical	153	1.73	"Worst"	36.94	28.40	3.82	32.77

Mode 1

22/03/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	3.24895G	47.56	74.00	-26.44	-0.54	3	Horizontal	239	1.68	-	48.10	28.41	3.82	32.77
AV	3.24934G	44.21	54.00	-9.79	-0.54	3	Horizontal	239	1.68	"Worst"	44.75	28.41	3.82	32.77