



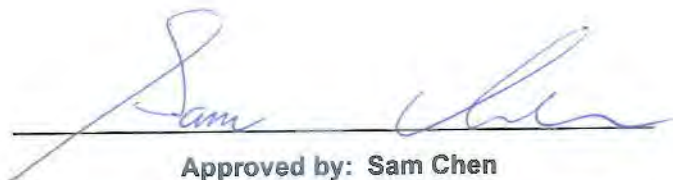
FCC RADIO TEST REPORT

FCC ID : NKR-DHURAZ68
Equipment : DHUR-AZ68 11a/b/g/n/ac 2x2 module
Brand Name : WNC
Model Name : DHUR-AZ68
Applicant : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu
308, Taiwan
Manufacturer : Wistron NeWeb Corporation
20 Park Avenue II, Hsinchu Science Park, Hsinchu
308, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 20, 2017, and testing was started from Apr. 02, 2018 and completed on Apr. 23, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Page Number : 3 of 28
Issued Date : May 04, 2018
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	-

Reviewed by: Sam Chen

Report Producer: Vicky Huang

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	2TX
5.15-5.25GHz	802.11n HT20	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11n HT40	40	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

Note:

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

1.1.2 Antenna Information

Set	Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
							WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	1	1	WNC	-	Printed Antenna	N/A	5.31	5.92	-
	2	2	WNC	-	Printed Antenna	N/A	5.26	5.91	-
2	3	1	WNC	81.EK615.G69	PIFA Antenna	I-PEX	3.71	5.21	-
	4	2	WNC	81.EK615.G68	PIFA Antenna	I-PEX	2.44	6.64	-
3	5	1	WNC	81.EK615.G66	PIFA Antenna	I-PEX	2.02	5.20	-
	6	2	WNC	81.EK615.G65	PIFA Antenna	I-PEX	0.64	5.06	-
4	7	1	WNC	81.EK615.G72	PIFA Antenna	I-PEX	1.08	3.67	-
	8	2	WNC	81.EK615.G71	PIFA Antenna	I-PEX	0.68	2.47	-
5	9	1	WNC	81.EK615.G56	PIFA Antenna	I-PEX	1.97	3.83	-
	10	2	WNC	81.EK615.G57	PIFA Antenna	I-PEX	1.73	3.88	-
6	11	1	WNC	81.EK615.G58	PIFA Antenna	I-PEX	-	-	5.85
7	12	1	WNC	81.EK615.G59	PIFA Antenna	I-PEX	-	-	4.03
8	13	1	WNC	81.EK615.G51	PIFA Antenna	I-PEX	-	-	1.29
9	14	1	WNC	81.EK615.G64	PIFA Antenna	I-PEX	-	-	-0.5
10	15	1	WNC	81.EK615.G67	PIFA Antenna	I-PEX	-	-	1.84
11	16	1	WNC	81.EK615.G70	PIFA Antenna	I-PEX	-	-	0.73

Note: The EUT has eleven set antennas, and they have total of sixteen antennas.

For 2.4GHz / 5GHz WLAN function (2TX/2RX):

Antenna set 1~5 support 2.4GHz / 5GHz WLAN function.

Antenna set 2~5 are the same type antennas, only the higher gain antenna "Set 2" was tested and recorded in the report.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Antenna set 6~11 support Bluetooth function.

Antenna set 6~11 are the same type antennas, only the higher gain antenna "Set 6" was tested and recorded in the report.

Only Port 1 can be used as transmitting/receiving.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT20	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☒	Client
Test Software Version	QATool_Dbg			

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR7D1249AB

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding 10 set antennas for PIFA antenna. (Set 2-Model Name: Port 1:81.EK615.G69/Port 2:81.EK615.G68, Set 3-Model Name: Port 1:81.EK615.G66/Port 2:81.EK615.G65, Set 4-Model Name: Port 1:81.EK615.G72/Port 2:81.EK615.G71, Set 5-Model Name: Port 1:81.EK615.G56/Port 2:81.EK615.G57, Set 6-Model Name: 81.EK615.G58, Set 7-Model Name: 81.EK615.G59, Set 8-Model Name: 81.EK615.G51, Set 9-Model Name: 81.EK615.G64, Set 10-Model Name: 81.EK615.G67, Set 11-Model Name: 81.EK615.G70)	It was performed for all tests.



1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	25°C / 55%	Apr. 19, 2018~Apr. 23, 2018
Radiated	03CH01-CB	Eddie Weng & Justin Lin	22°C / 54%	Apr. 02, 2018~Apr. 23, 2018
AC Conduction	CO01-CB	Howard Liu	22°C / 58%	Apr. 11, 2018

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

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

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



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	21
5200MHz	20
5240MHz	20
5745MHz	3A
5785MHz	3A
5825MHz	3A
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	22
5200MHz	23
5240MHz	23
5745MHz	3A
5785MHz	3A
5825MHz	3A
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	24
5230MHz	28
5755MHz	3A
5795MHz	3A
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	22
5775MHz	27

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	EUT with Set 2 antennas (2.4GHz WLAN function)
2	EUT with Set 2 antennas (5GHz WLAN function)
3	EUT with Set 6 antennas (Bluetooth function)
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position for Emissions in Unwanted Emissions above 1GHz test. The worst case was found at Y axis, so the measurement will follow this same test configuration.	
1	EUT Y axis with Set 2 antennas (2.4GHz WLAN function)
2	EUT Y axis with Set 2 antennas (5GHz WLAN function)
3	EUT Y axis with Set 6 antennas (Bluetooth function)
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position. The worst case was found at Y axis, so the measurement will follow this same test configuration.	
1	EUT Y axis with Set 2 antennas (5GHz WLAN function)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT with Set 1 and Set 6 antennas (2.4GHz WLAN + Bluetooth function)
2	EUT with Set 1 and Set 6 antennas (5GHz WLAN + Bluetooth function)
3	EUT with Set 2 and Set 6 antennas (2.4GHz WLAN + Bluetooth function)
4	EUT with Set 2 and Set 6 antennas (5GHz WLAN + Bluetooth function)
Refer to Sporton Test Report No.: FA7D1249-01 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A

2.5 Support Equipment

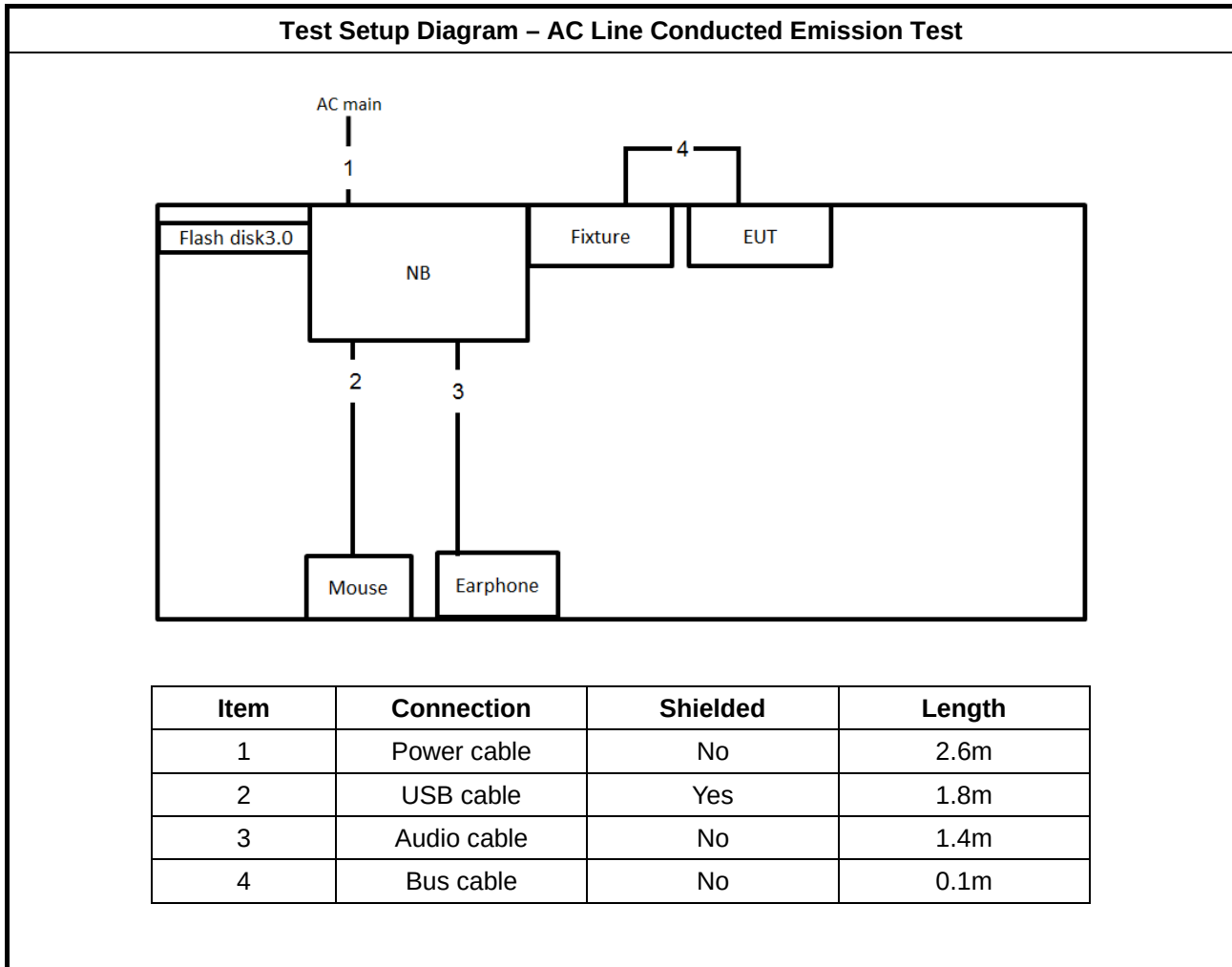
For Test Site No: CO01-CB

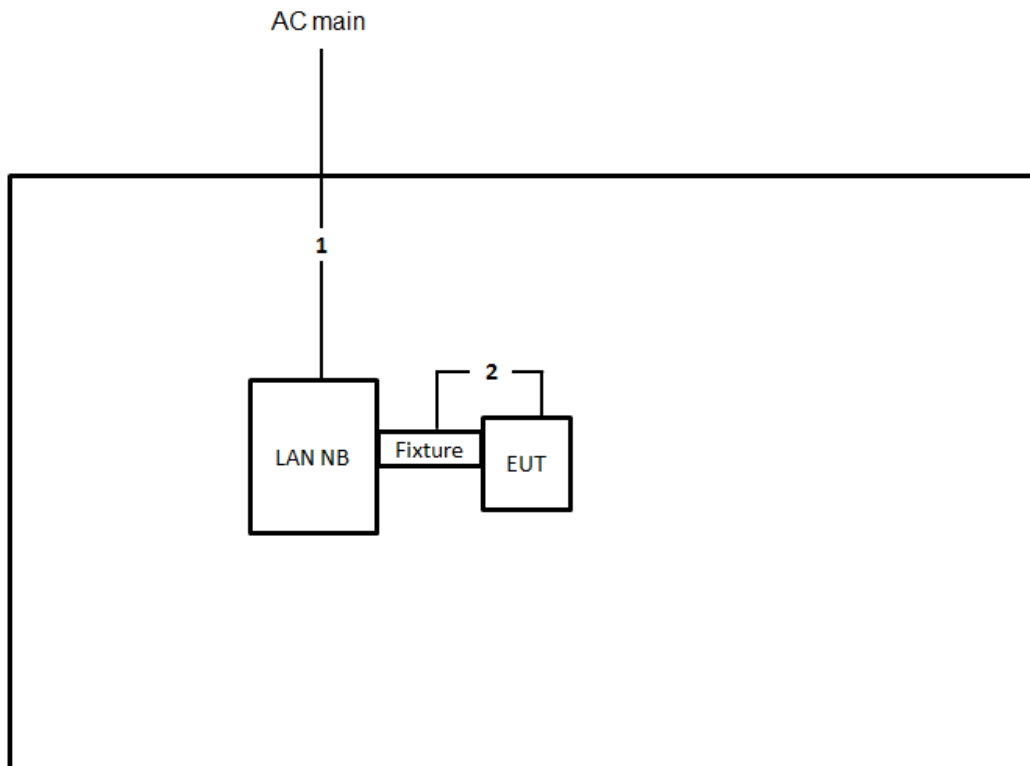
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	Earphone	e-Power	S90W	DoC
3	Mouse	Logitech	M-U0026	DoC
4	Fixture	WNC	48DHUR09.SGB	DoC
5	Flash disk3.0	Transcend	JetFlash-760	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Fixture	WNC	48DHUR09.SGB	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	Bus cable	No	0.1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

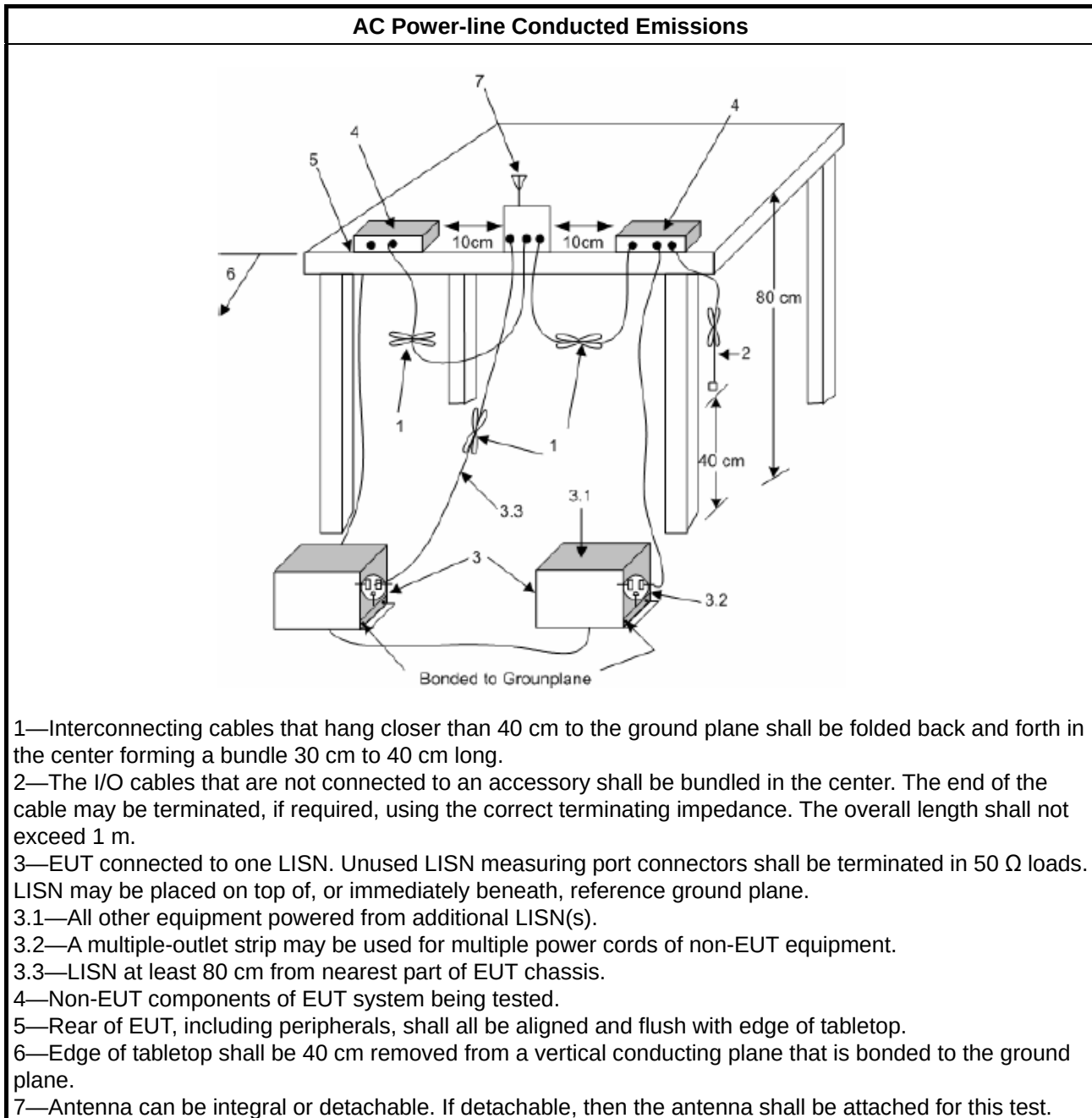
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

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

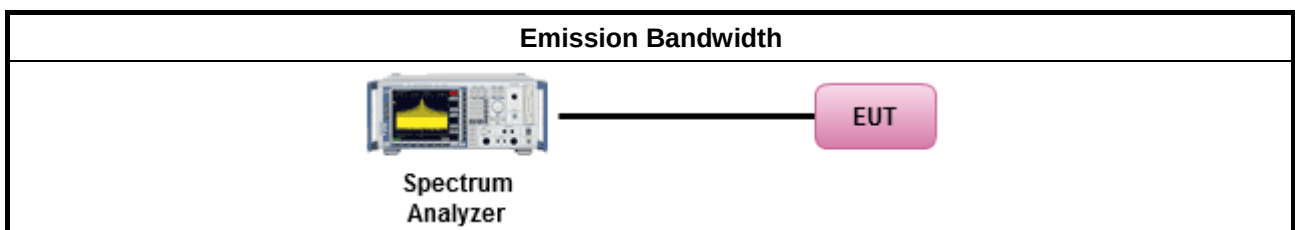
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

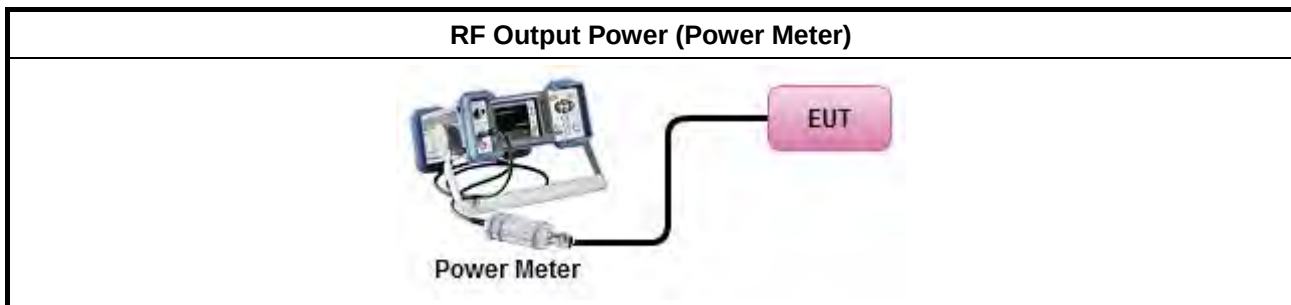
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☐	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (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	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -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 $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	



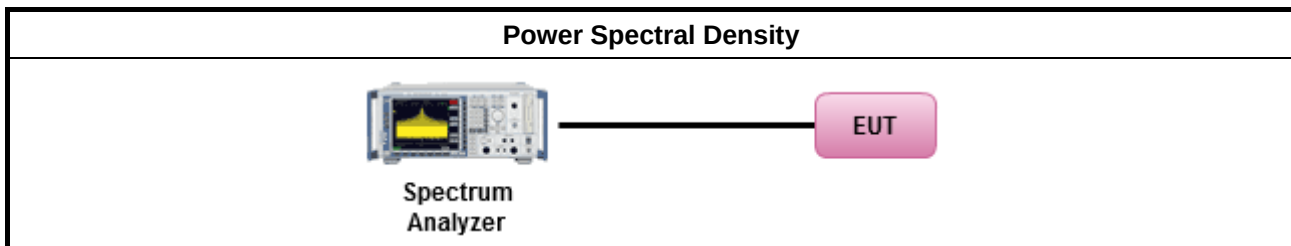
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

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

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

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

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



Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Measuring Instruments

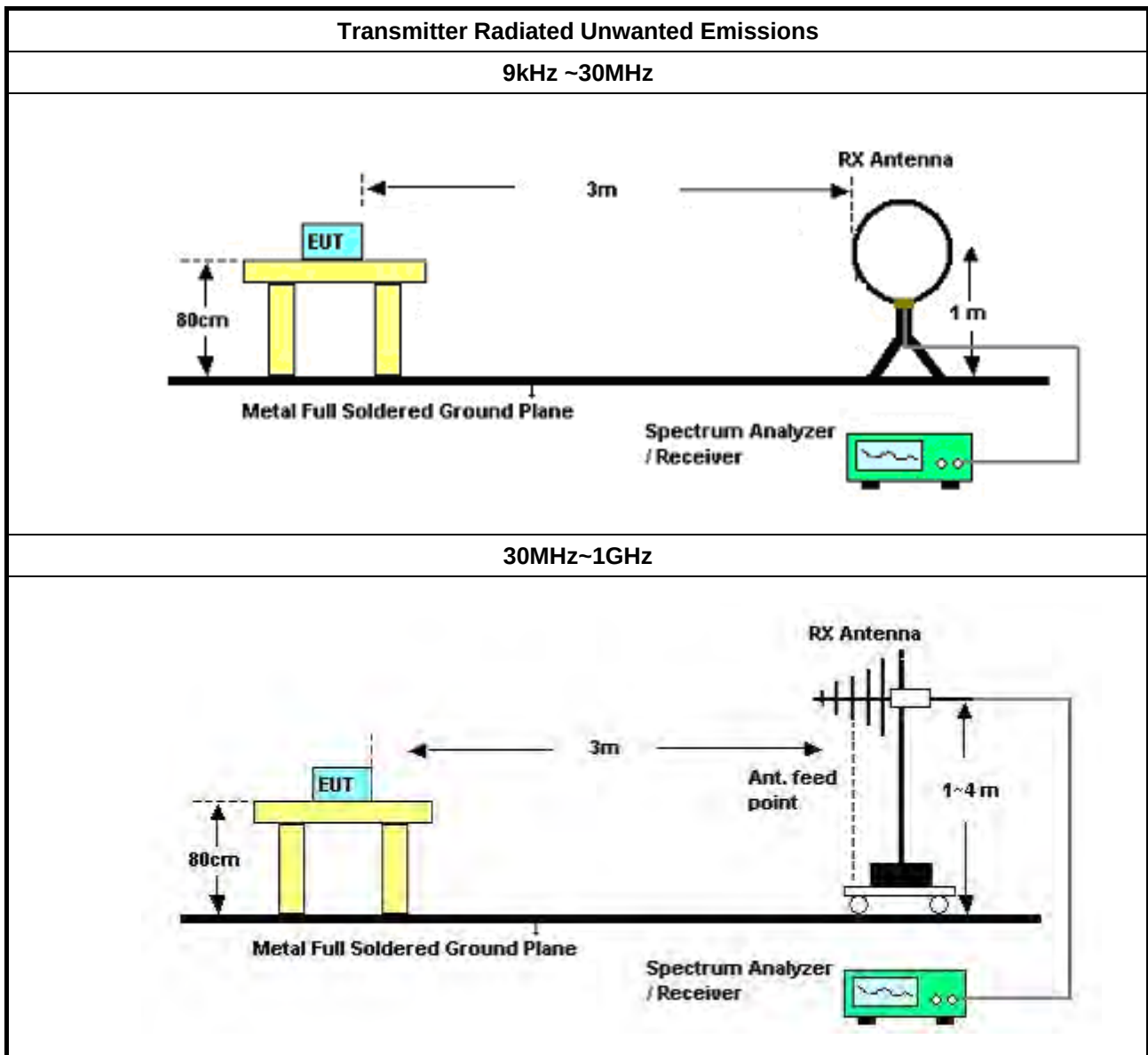
Refer a test equipment and calibration data table in this test report.

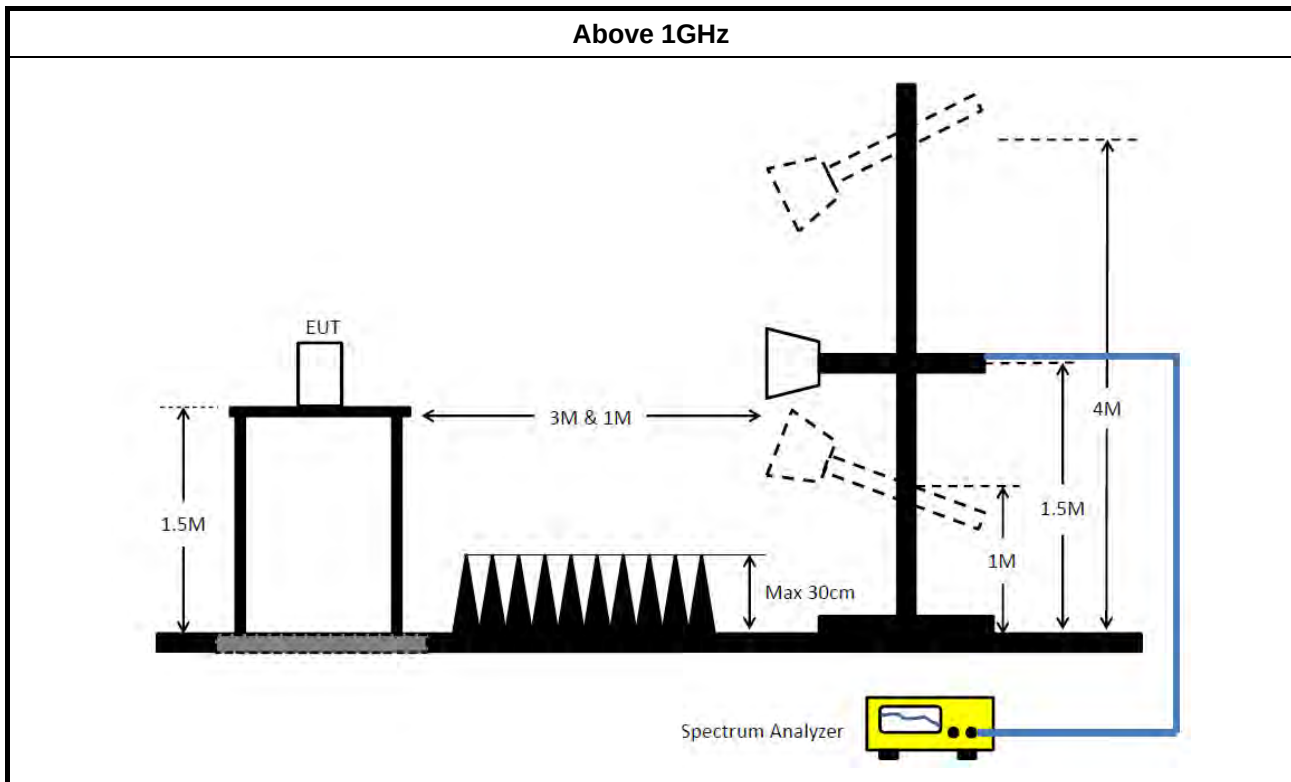
3.5.3 Test Procedures

Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
- Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands. - Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	For radiated measurement.

Test Method	
	- Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. - Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	- The any unwanted emissions level shall not exceed the fundamental emission level. - All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.5.4 Test Setup





3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 31, 2018	Jan. 30, 2019	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 20, 2017	Dec. 19, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 29, 2017	Dec. 28, 2018	Conduction (CO01-CB)
Impulsbegrenzer Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 06, 2018	Feb. 05, 2019	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

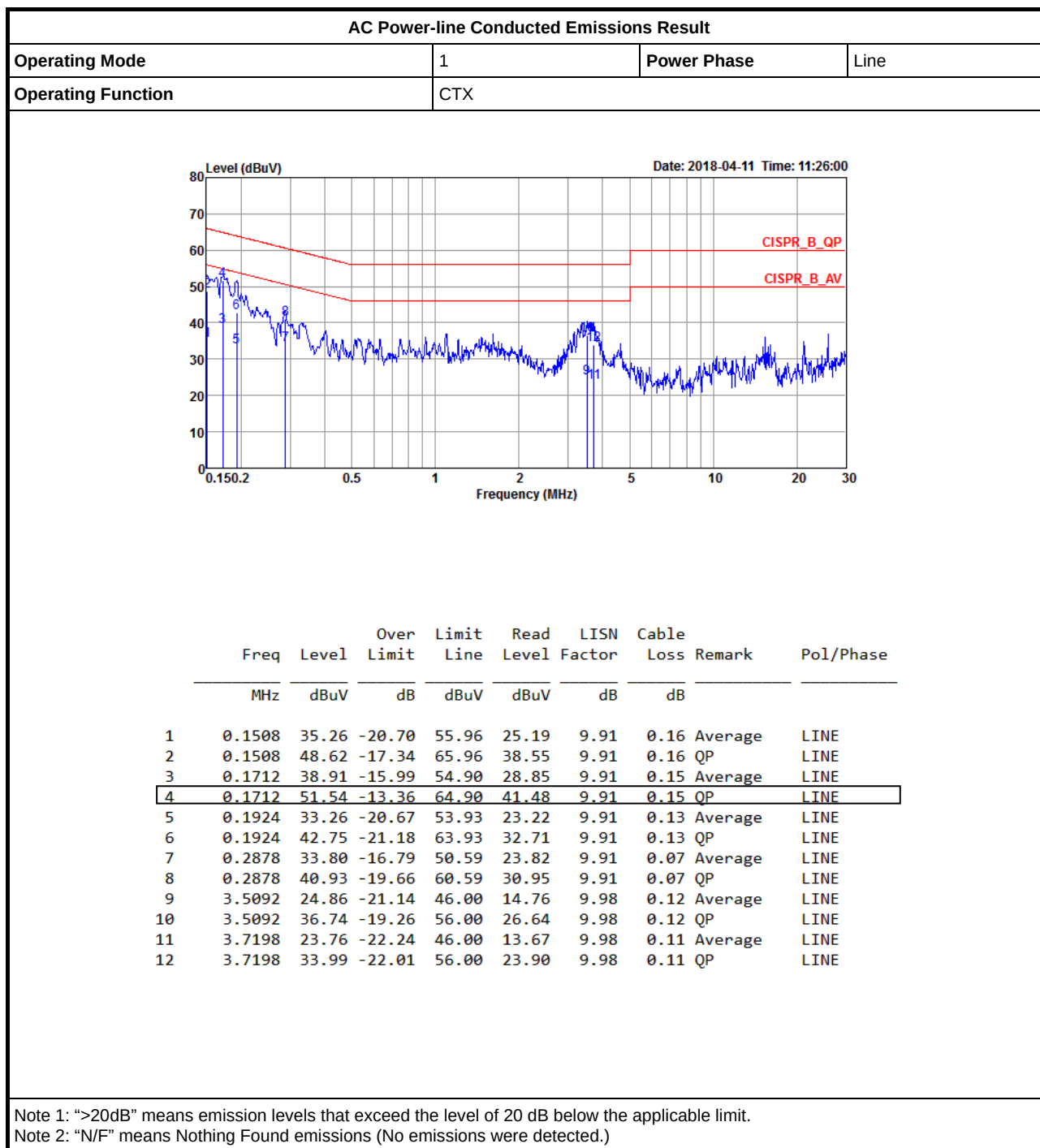
Appendix A

AC Power-line Conducted Emissions Result																																																																																																																																																					
Operating Mode	1			Power Phase			Neutral																																																																																																																																														
Operating Function	CTX																																																																																																																																																				
Level (dBuV) Date: 2018-04-11 Time: 11:28:04 Frequency (MHz) <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>LISN Factor</th><th>Cable Loss</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.1516</td><td>36.59</td><td>-19.32</td><td>55.91</td><td>26.51</td><td>9.92</td><td>0.16</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>2</td><td>0.1516</td><td>49.08</td><td>-16.83</td><td>65.91</td><td>39.00</td><td>9.92</td><td>0.16</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>3</td><td>0.1712</td><td>37.27</td><td>-17.63</td><td>54.90</td><td>27.20</td><td>9.92</td><td>0.15</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>4</td><td>0.1712</td><td>46.24</td><td>-18.66</td><td>64.90</td><td>36.17</td><td>9.92</td><td>0.15</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>5</td><td>0.2924</td><td>34.33</td><td>-16.13</td><td>50.46</td><td>24.35</td><td>9.92</td><td>0.06</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>6</td><td>0.2924</td><td>40.89</td><td>-19.57</td><td>60.46</td><td>30.91</td><td>9.92</td><td>0.06</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>7</td><td>0.4019</td><td>29.98</td><td>-17.83</td><td>47.81</td><td>20.05</td><td>9.92</td><td>0.01</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>8</td><td>0.4019</td><td>36.73</td><td>-21.08</td><td>57.81</td><td>26.80</td><td>9.92</td><td>0.01</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>9</td><td>3.2813</td><td>23.35</td><td>-22.65</td><td>46.00</td><td>13.25</td><td>9.97</td><td>0.13</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>10</td><td>3.2813</td><td>32.07</td><td>-23.93</td><td>56.00</td><td>21.97</td><td>9.97</td><td>0.13</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>11</td><td>3.7183</td><td>22.98</td><td>-23.02</td><td>46.00</td><td>12.89</td><td>9.98</td><td>0.11</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>12</td><td>3.7183</td><td>32.42</td><td>-23.58</td><td>56.00</td><td>22.33</td><td>9.98</td><td>0.11</td><td>QP</td><td>NEUTRAL</td></tr></table>											Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase		MHz	dBuV	dB	dBuV	dBuV	dB	dB			1	0.1516	36.59	-19.32	55.91	26.51	9.92	0.16	Average	NEUTRAL	2	0.1516	49.08	-16.83	65.91	39.00	9.92	0.16	QP	NEUTRAL	3	0.1712	37.27	-17.63	54.90	27.20	9.92	0.15	Average	NEUTRAL	4	0.1712	46.24	-18.66	64.90	36.17	9.92	0.15	QP	NEUTRAL	5	0.2924	34.33	-16.13	50.46	24.35	9.92	0.06	Average	NEUTRAL	6	0.2924	40.89	-19.57	60.46	30.91	9.92	0.06	QP	NEUTRAL	7	0.4019	29.98	-17.83	47.81	20.05	9.92	0.01	Average	NEUTRAL	8	0.4019	36.73	-21.08	57.81	26.80	9.92	0.01	QP	NEUTRAL	9	3.2813	23.35	-22.65	46.00	13.25	9.97	0.13	Average	NEUTRAL	10	3.2813	32.07	-23.93	56.00	21.97	9.97	0.13	QP	NEUTRAL	11	3.7183	22.98	-23.02	46.00	12.89	9.98	0.11	Average	NEUTRAL	12	3.7183	32.42	-23.58	56.00	22.33	9.98	0.11	QP	NEUTRAL
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase																																																																																																																																												
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2	0.1516	49.08	-16.83	65.91	39.00	9.92	0.16	QP	NEUTRAL																																																																																																																																												
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4	0.1712	46.24	-18.66	64.90	36.17	9.92	0.15	QP	NEUTRAL																																																																																																																																												
5	0.2924	34.33	-16.13	50.46	24.35	9.92	0.06	Average	NEUTRAL																																																																																																																																												
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12	3.7183	32.42	-23.58	56.00	22.33	9.98	0.11	QP	NEUTRAL																																																																																																																																												
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																																																																					



AC Power-line Conducted Emissions Result

Appendix A



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.15M	16.467M	16M5D1D	21.175M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	24.5M	17.591M	17M6D1D	20.625M	17.566M
802.11ac VHT40_Nss1,(MCS0)_2TX	77.15M	36.582M	36M6D1D	40.9M	36.082M
802.11ac VHT80_Nss1,(MCS0)_2TX	81.8M	75.862M	75M9D1D	81.7M	75.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	28.786M	28M8D1D	16.3M	27.536M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.625M	29.76M	29M8D1D	17.55M	28.686M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.4M	60.32M	60M3D1D	36.35M	55.722M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.5M	76.462M	76M5D1D	76.4M	76.362M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;



EBW Result

Appendix B

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	23.15M	16.392M	22.825M	16.442M
5200MHz	Pass	Inf	22.6M	16.417M	21.7M	16.417M
5240MHz	Pass	Inf	22.8M	16.467M	21.175M	16.417M
5745MHz	Pass	500k	16.325M	28.386M	16.325M	28.786M
5785MHz	Pass	500k	16.35M	28.211M	16.35M	28.136M
5825MHz	Pass	500k	16.325M	28.761M	16.3M	27.536M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	24.15M	17.566M	24.5M	17.591M
5200MHz	Pass	Inf	22.275M	17.566M	20.625M	17.566M
5240MHz	Pass	Inf	23.9M	17.566M	22.525M	17.566M
5745MHz	Pass	500k	17.575M	29.485M	17.6M	29.56M
5785MHz	Pass	500k	17.55M	29.435M	17.625M	29.46M
5825MHz	Pass	500k	17.575M	29.76M	17.575M	28.686M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	48.35M	36.082M	40.9M	36.082M
5230MHz	Pass	Inf	77.15M	36.582M	75.7M	36.482M
5755MHz	Pass	500k	36.4M	56.122M	36.35M	55.722M
5795MHz	Pass	500k	36.35M	59.72M	36.35M	60.32M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.7M	75.762M	81.8M	75.862M
5775MHz	Pass	500k	76.5M	76.362M	76.4M	76.462M

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

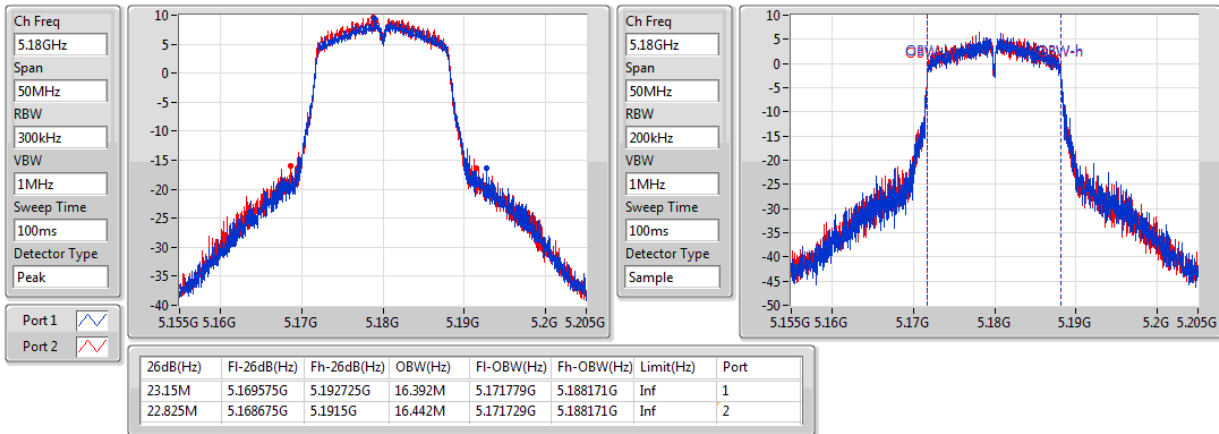
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

5180MHz

19/04/2018

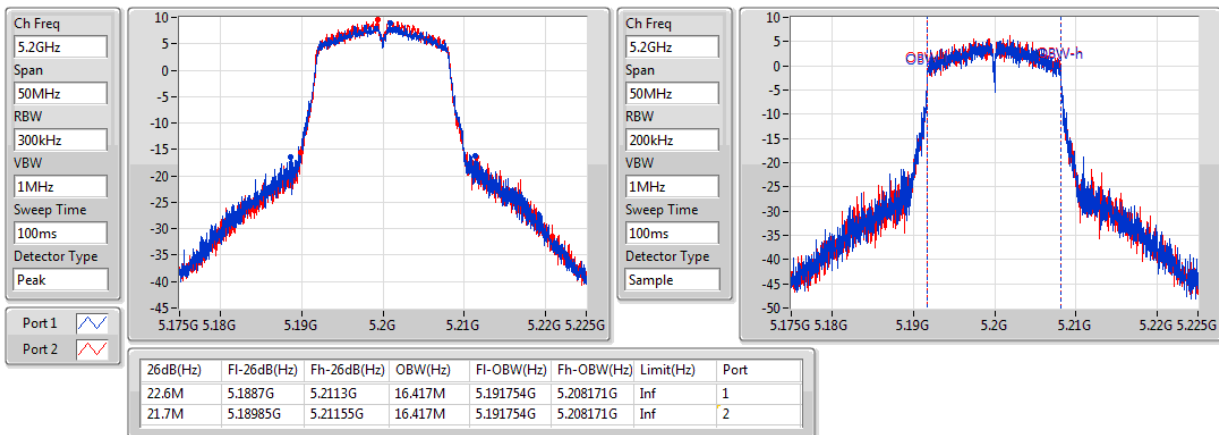


802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

19/04/2018

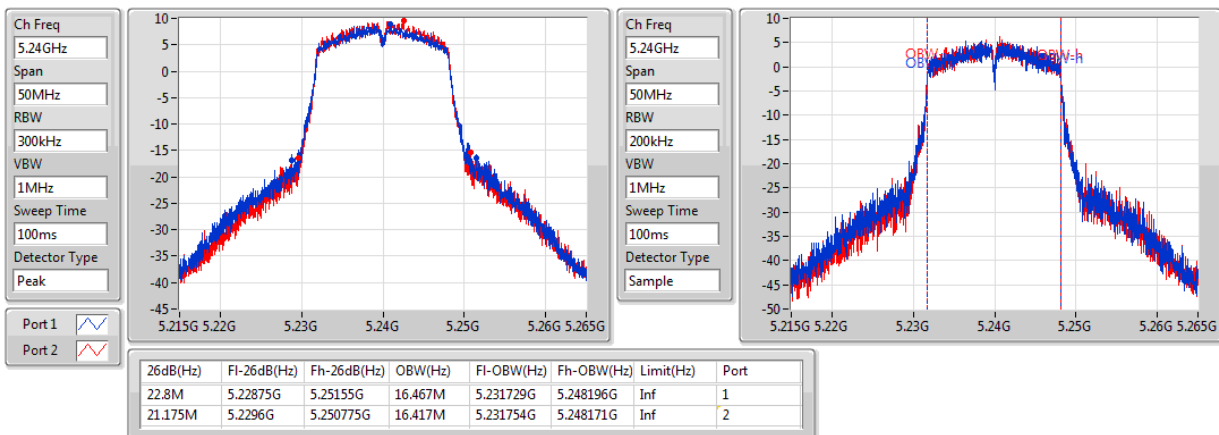


802.11a_Nss1,(6Mbps)_2TX

EBW

5240MHz

19/04/2018

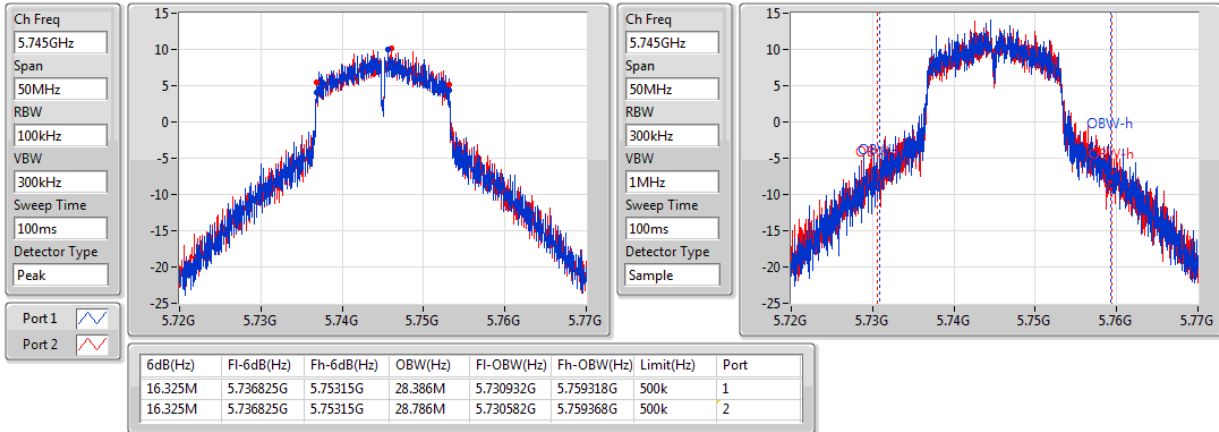


802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

19/04/2018

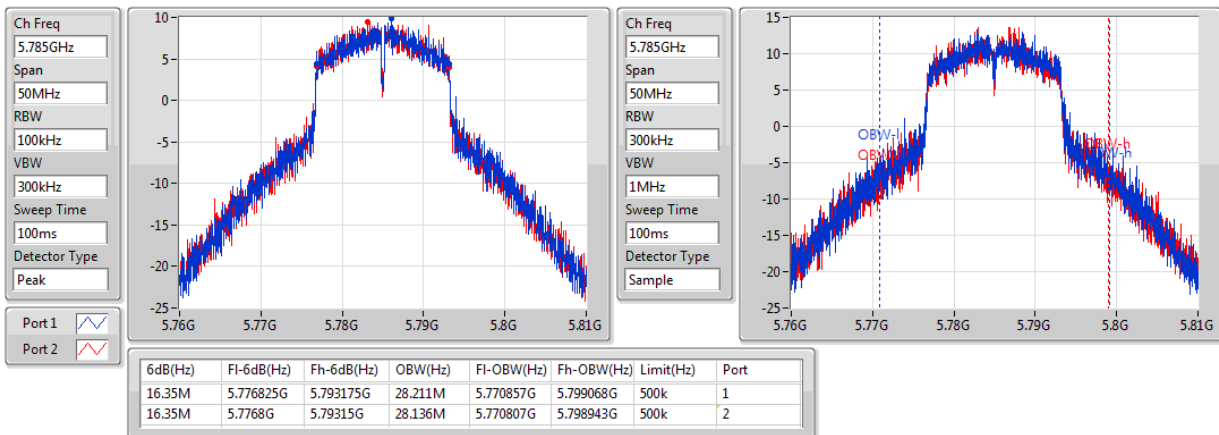


802.11a_Nss1,(6Mbps)_2TX

EBW

5785MHz

19/04/2018

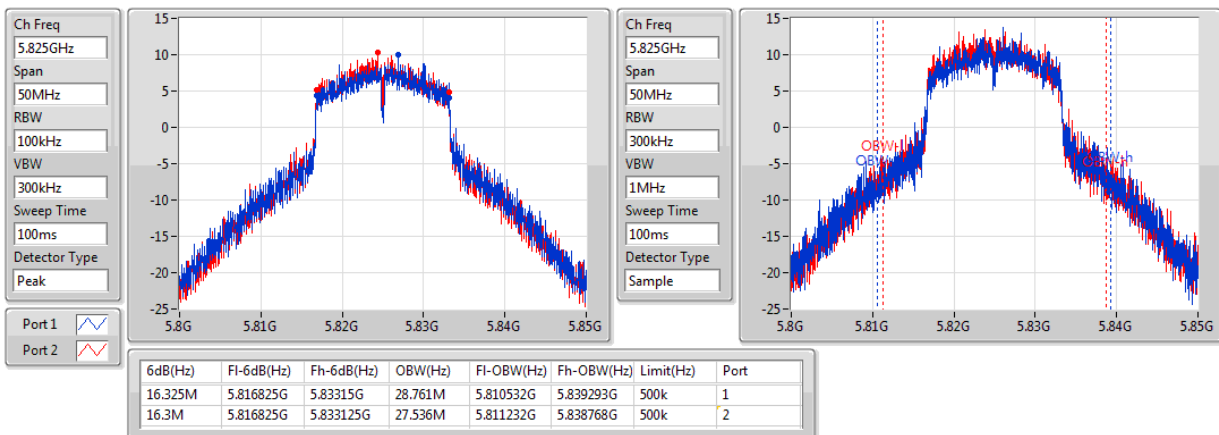


802.11a_Nss1,(6Mbps)_2TX

EBW

5825MHz

19/04/2018

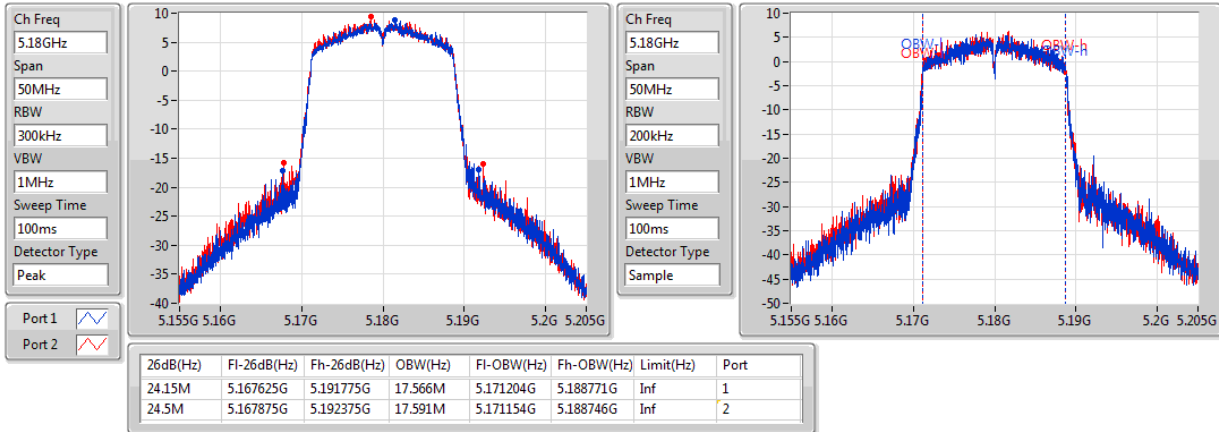


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5180MHz

19/04/2018

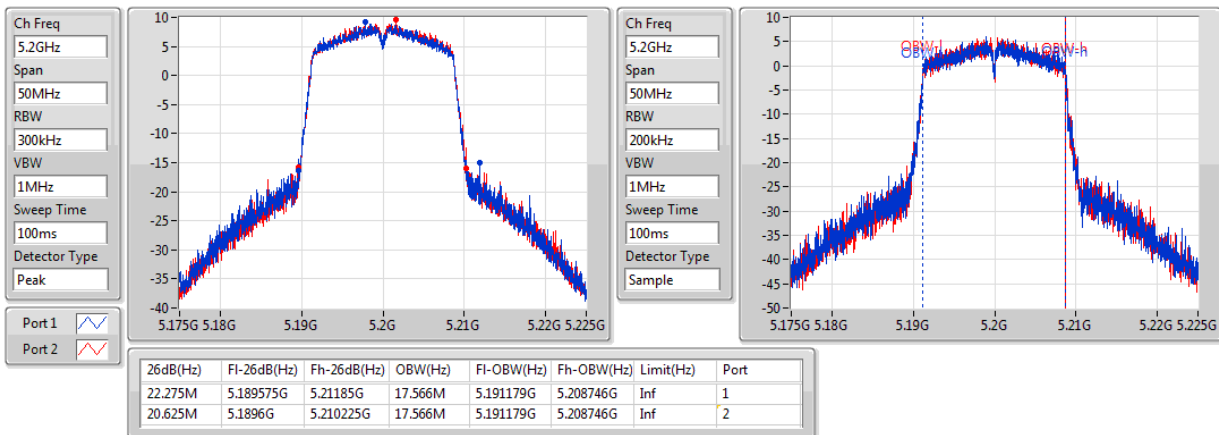


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5200MHz

19/04/2018

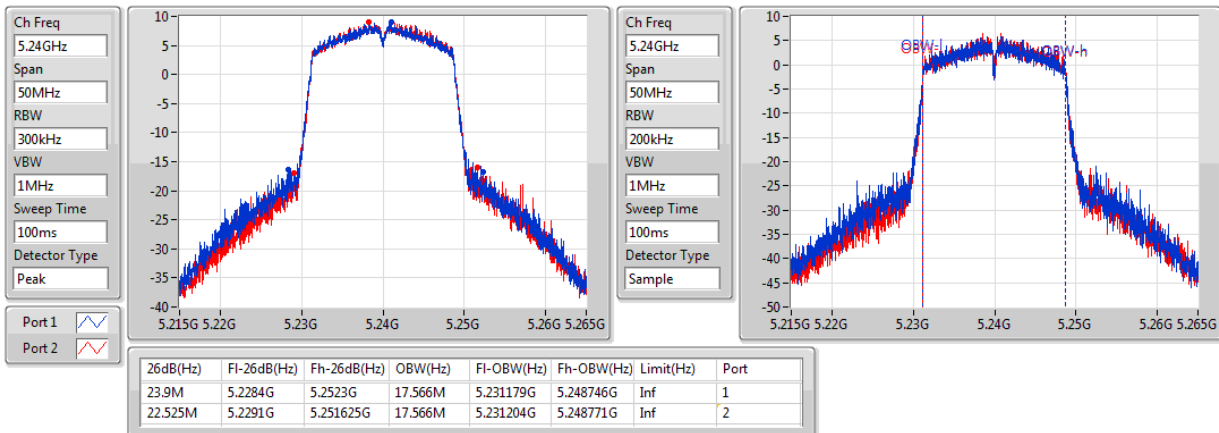


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5240MHz

19/04/2018

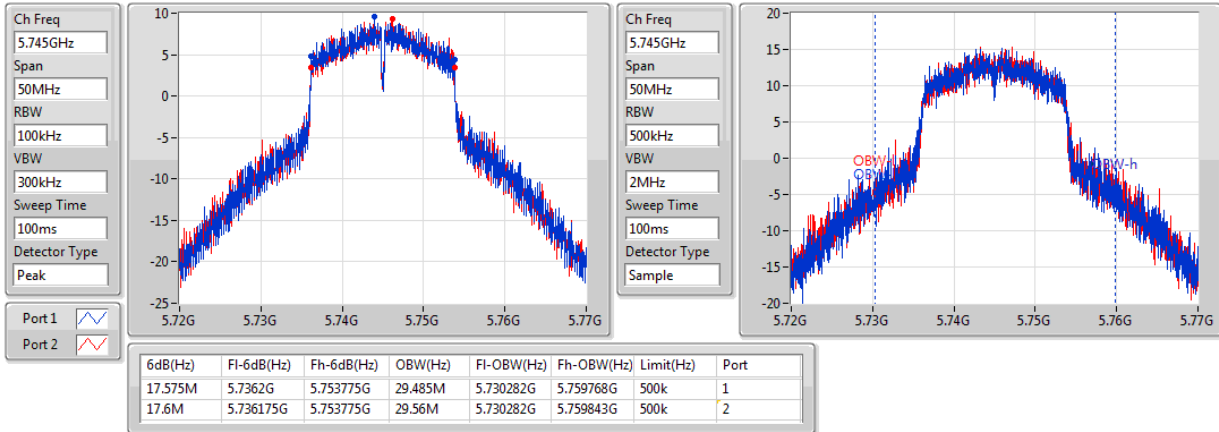


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5745MHz

19/04/2018

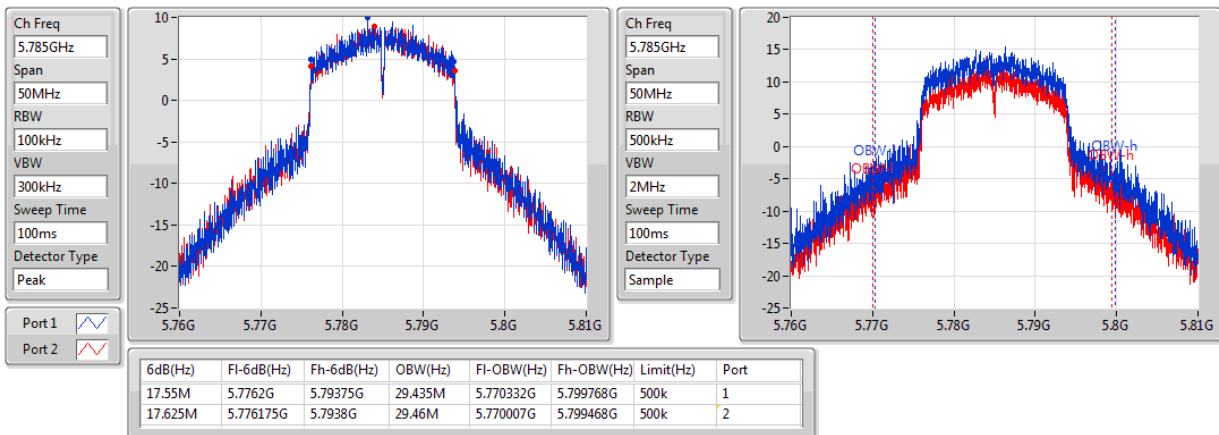


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5785MHz

19/04/2018

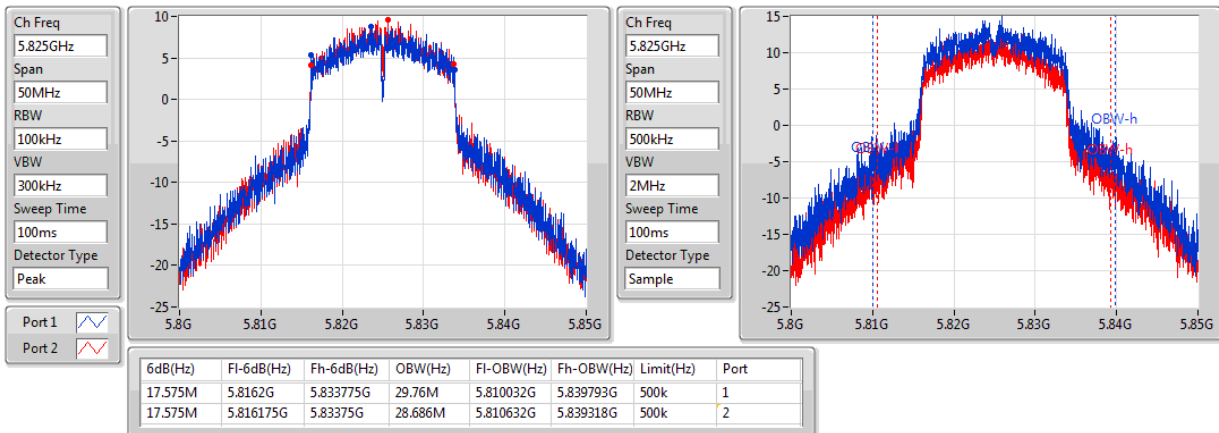


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5825MHz

19/04/2018

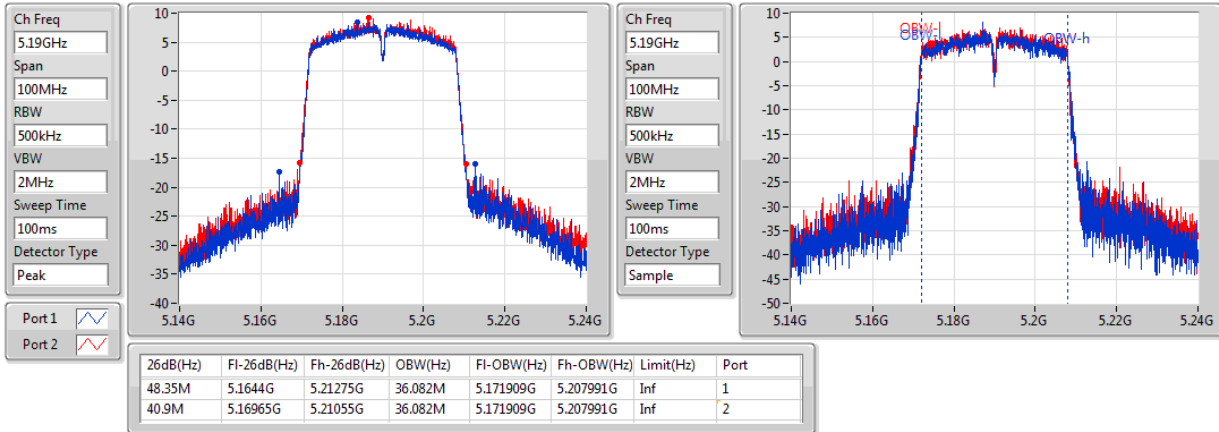


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5190MHz

19/04/2018

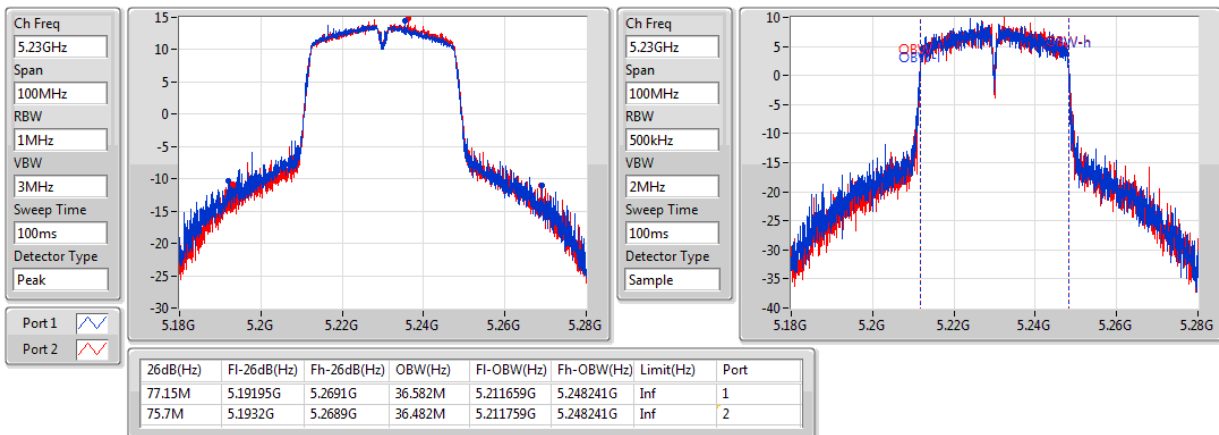


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5230MHz

19/04/2018

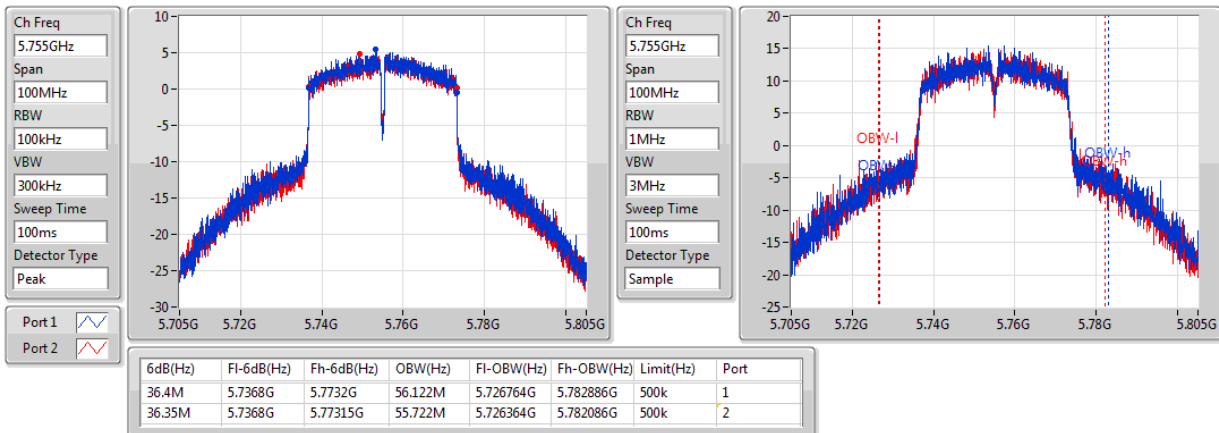


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5755MHz

19/04/2018

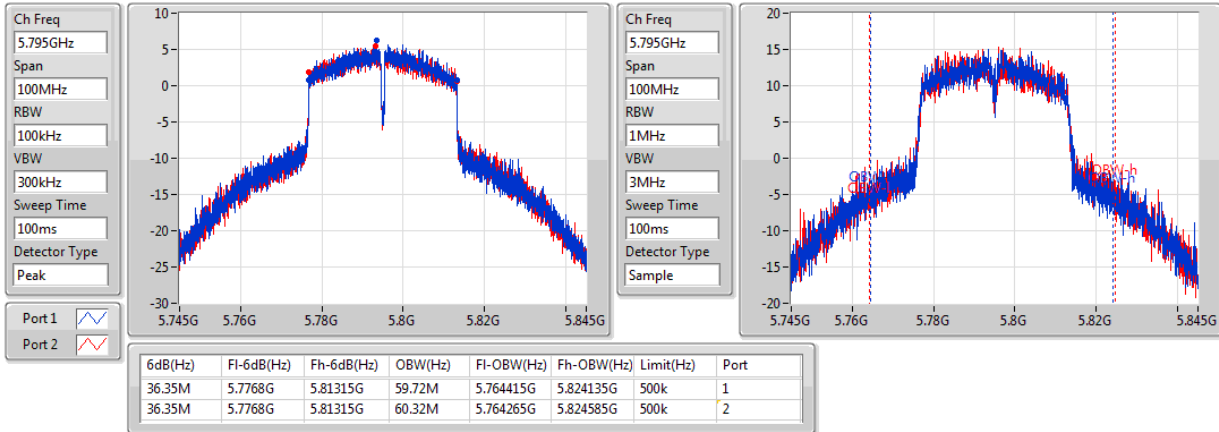


802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

19/04/2018

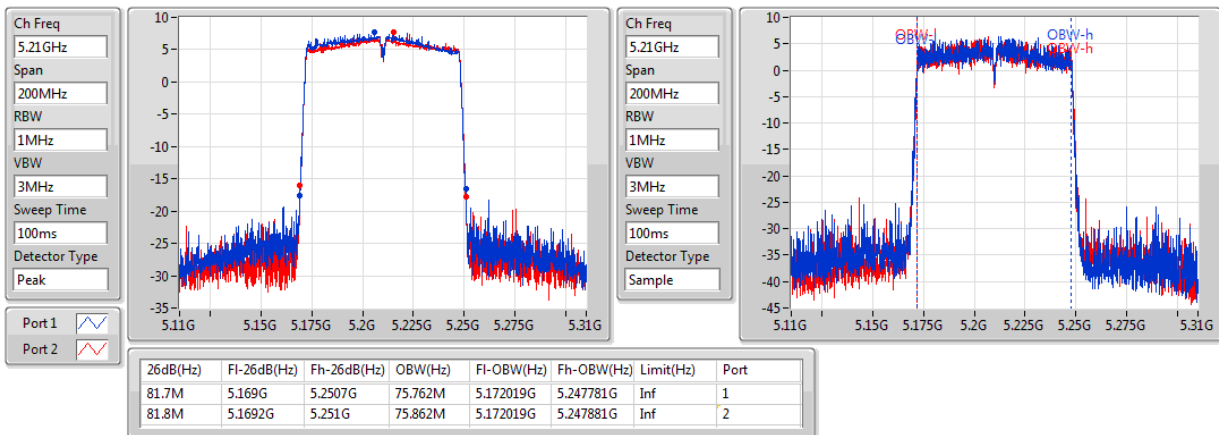


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

19/04/2018

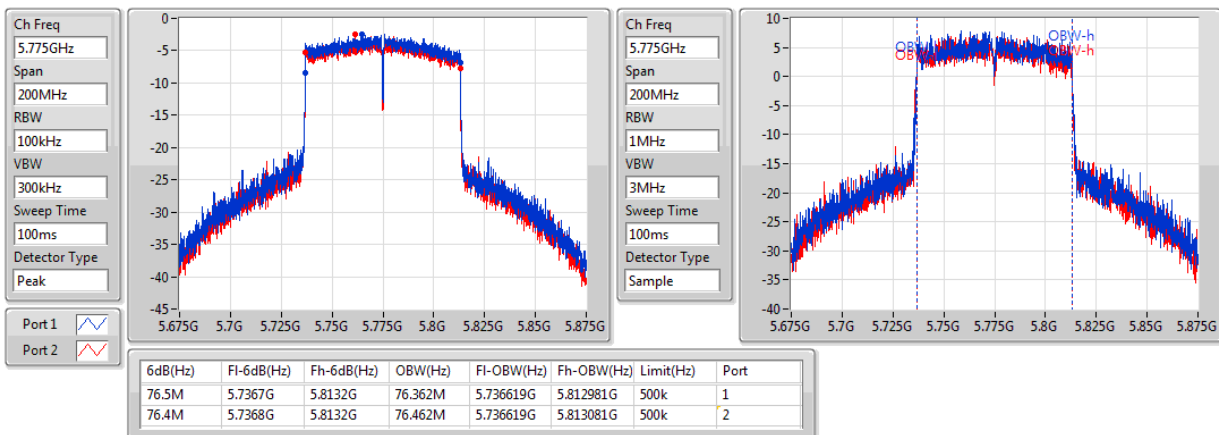


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz

19/04/2018





Power Result

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.78	0.11967
802.11ac VHT20_Nss1,(MCS0)_2TX	20.73	0.11830
802.11ac VHT40_Nss1,(MCS0)_2TX	23.10	0.20417
802.11ac VHT80_Nss1,(MCS0)_2TX	19.81	0.09572
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	25.87	0.38637
802.11ac VHT20_Nss1,(MCS0)_2TX	25.93	0.39174
802.11ac VHT40_Nss1,(MCS0)_2TX	25.35	0.34277
802.11ac VHT80_Nss1,(MCS0)_2TX	21.70	0.14791



Power Result

Appendix C

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.64	17.62	17.92	20.78	23.34
5200MHz	Pass	6.64	17.56	17.79	20.69	23.34
5240MHz	Pass	6.64	17.52	17.71	20.63	23.34
5745MHz	Pass	6.64	22.80	22.91	25.87	29.36
5785MHz	Pass	6.64	22.80	22.64	25.73	29.36
5825MHz	Pass	6.64	22.37	22.42	25.41	29.36
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	6.64	17.48	17.69	20.60	23.34
5200MHz	Pass	6.64	17.55	17.67	20.62	23.34
5240MHz	Pass	6.64	17.61	17.83	20.73	23.34
5745MHz	Pass	6.64	22.82	22.90	25.87	29.36
5785MHz	Pass	6.64	22.49	23.31	25.93	29.36
5825MHz	Pass	6.64	22.53	22.70	25.63	29.36
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	6.64	17.59	17.76	20.69	23.34
5230MHz	Pass	6.64	20.14	20.03	23.10	23.34
5755MHz	Pass	6.64	22.32	22.27	25.31	29.36
5795MHz	Pass	6.64	22.38	22.30	25.35	29.36
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	6.64	16.62	16.97	19.81	23.34
5775MHz	Pass	6.64	18.76	18.61	21.70	29.36

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



PSD Result

Appendix D

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	7.81
802.11ac VHT20_Nss1,(MCS0)_2TX	7.80
802.11ac VHT40_Nss1,(MCS0)_2TX	6.89
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.77
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	11.54
802.11ac VHT20_Nss1,(MCS0)_2TX	11.45
802.11ac VHT40_Nss1,(MCS0)_2TX	7.85
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.32

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.96	4.69	4.94	7.81	8.04
5200MHz	Pass	8.96	4.67	4.90	7.78	8.04
5240MHz	Pass	8.96	4.67	4.82	7.76	8.04
5745MHz	Pass	8.96	8.33	8.72	11.54	27.04
5785MHz	Pass	8.96	8.41	8.68	11.53	27.04
5825MHz	Pass	8.96	8.32	8.66	11.45	27.04
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	8.96	4.74	4.82	7.79	8.04
5200MHz	Pass	8.96	4.62	4.94	7.77	8.04
5240MHz	Pass	8.96	4.73	4.86	7.80	8.04
5745MHz	Pass	8.96	8.28	8.39	11.33	27.04
5785MHz	Pass	8.96	8.35	8.54	11.45	27.04
5825MHz	Pass	8.96	7.93	8.22	11.00	27.04
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	8.96	1.36	1.90	4.65	8.04
5230MHz	Pass	8.96	3.89	3.92	6.89	8.04
5755MHz	Pass	8.96	4.61	4.93	7.76	27.04
5795MHz	Pass	8.96	4.72	4.94	7.85	27.04
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	8.96	-3.78	-3.72	-0.77	8.04
5775MHz	Pass	8.96	-3.31	-3.28	-0.32	27.04

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

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

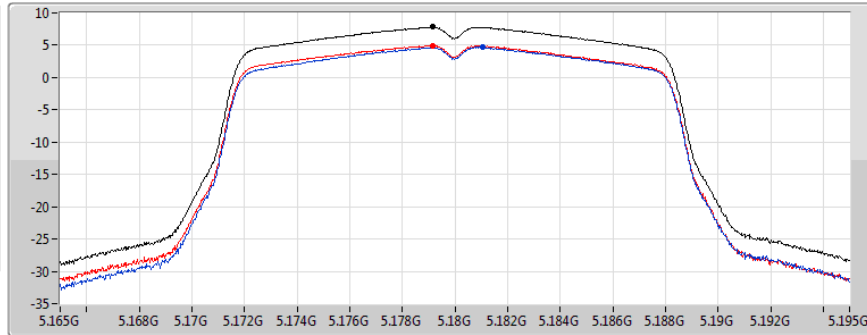
802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

19/04/2018

Ch Freq
5.18GHz
Span
30MHz
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)
7.81	7.81	4.69	4.94

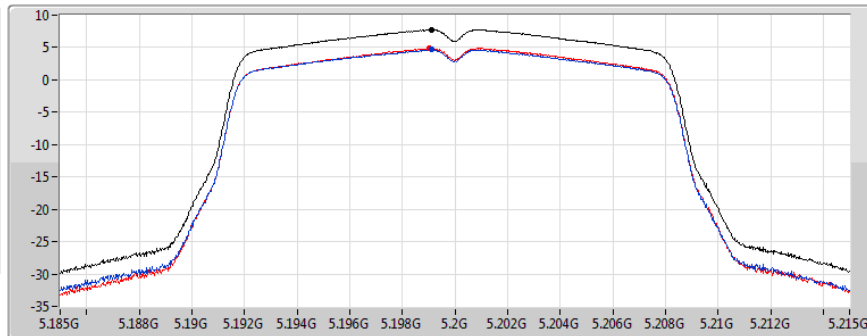
802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

19/04/2018

Ch Freq
5.2GHz
Span
30MHz
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)
7.78	7.78	4.67	4.90

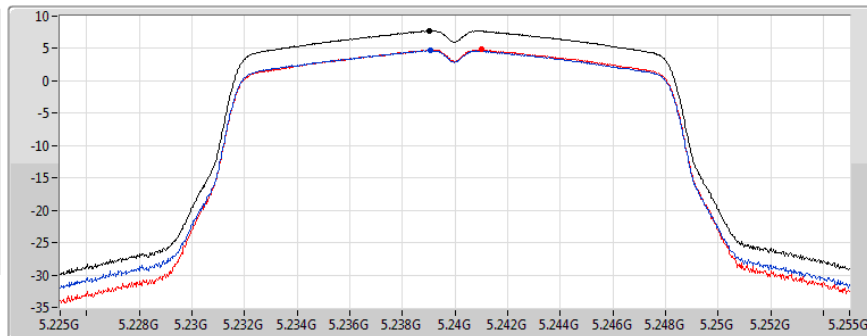
802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

19/04/2018

Ch Freq
5.24GHz
Span
30MHz
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)
7.76	7.76	4.67	4.82

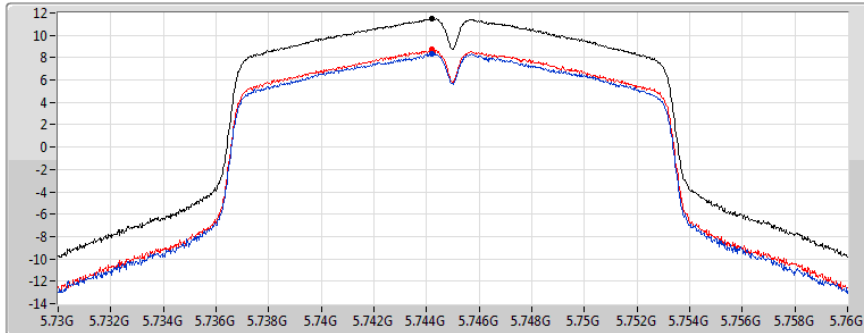
802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

05/02/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.54	11.54	8.33	8.72

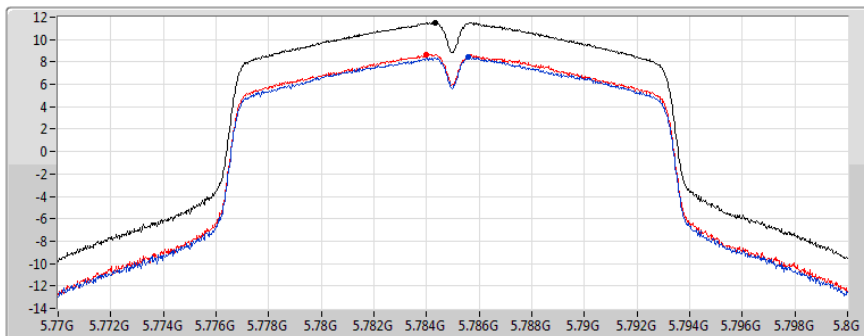
802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

05/02/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.53	11.53	8.41	8.68

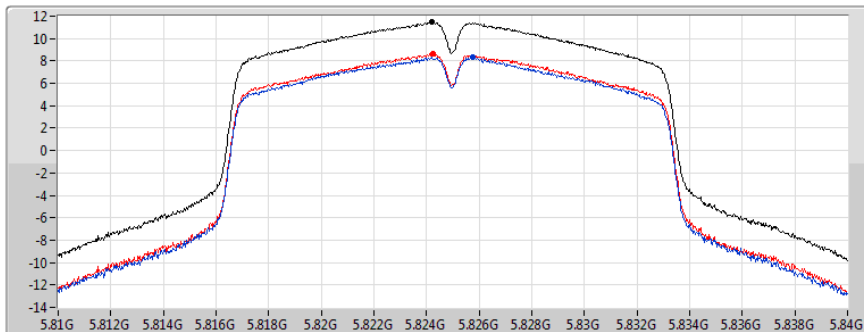
802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

05/02/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.45	11.45	8.32	8.66

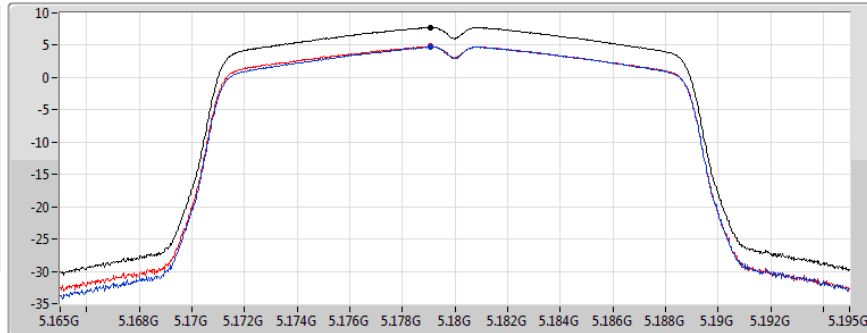
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

19/04/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.79	7.79	4.74	4.82

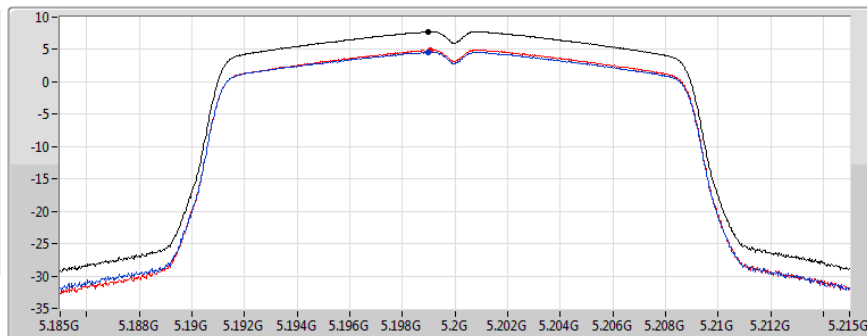
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

19/04/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.77	7.77	4.62	4.94

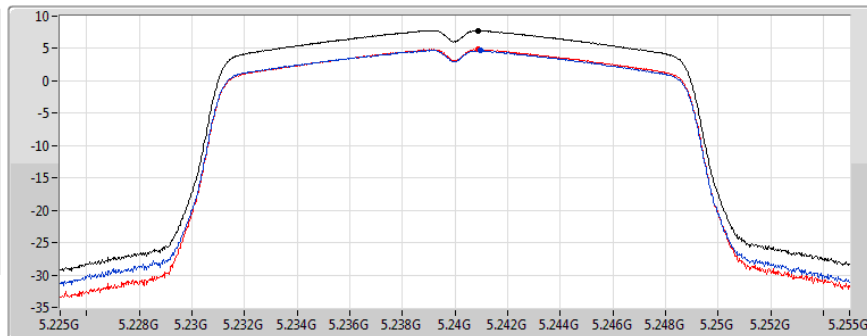
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

19/04/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.80	7.80	4.73	4.86

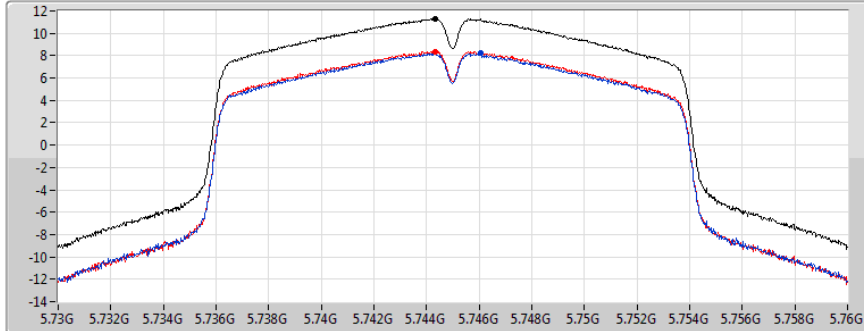
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

05/02/2018

Ch Freq
5.745GHz
Span
30MHz
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)
11.33	11.33	8.28	8.39

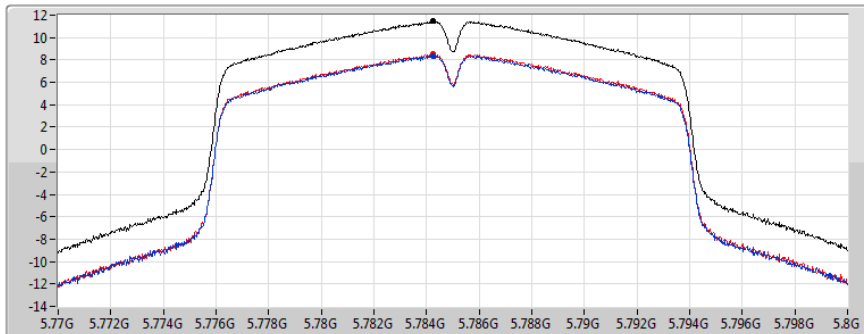
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

05/02/2018

Ch Freq
5.785GHz
Span
30MHz
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)
11.45	11.45	8.35	8.54

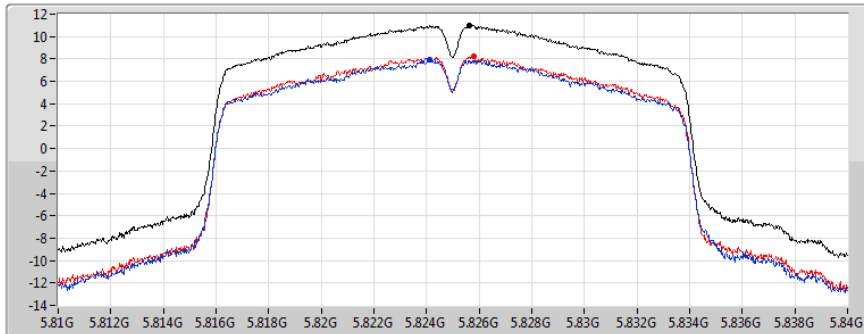
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

05/02/2018

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



Sum ☒
Port 1 ☒
Port 2 ☒

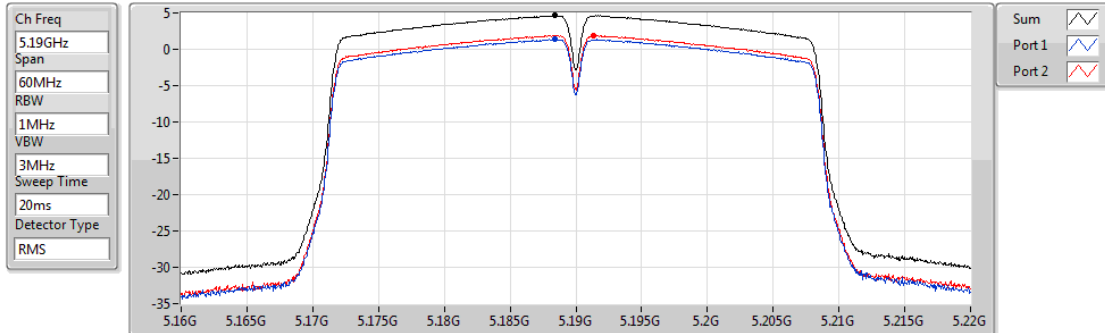
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.00	11.00	7.93	8.22

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

05/02/2018



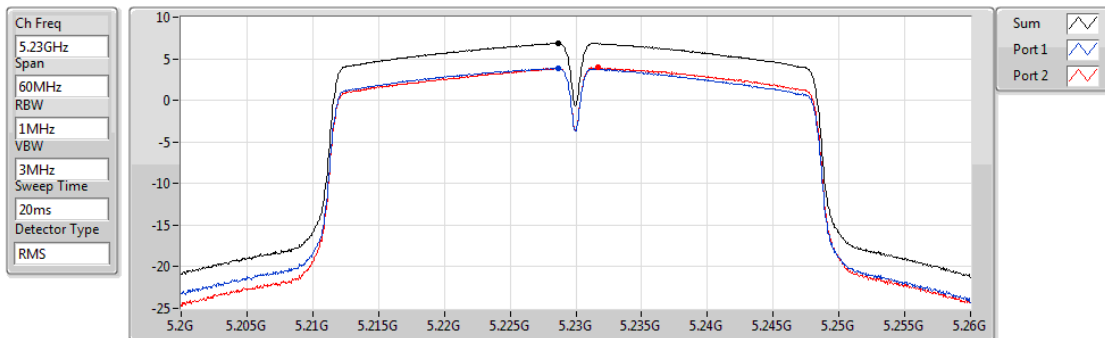
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.65	4.65	1.36	1.90

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

19/04/2018



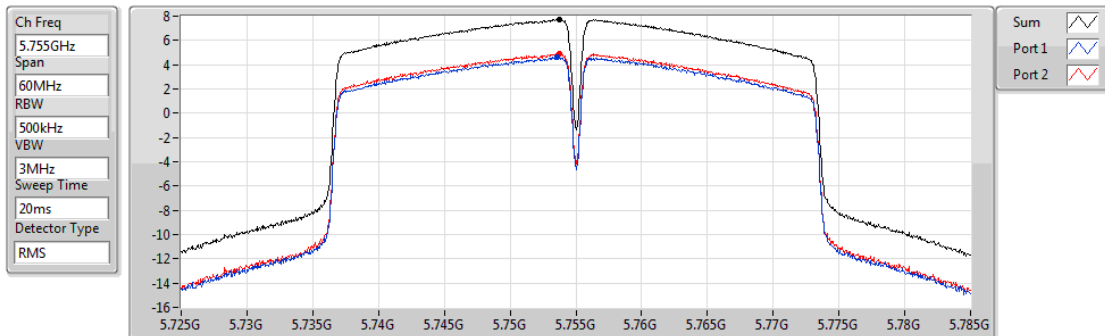
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.89	6.89	3.89	3.92

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

05/02/2018



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.76	7.76	4.61	4.93

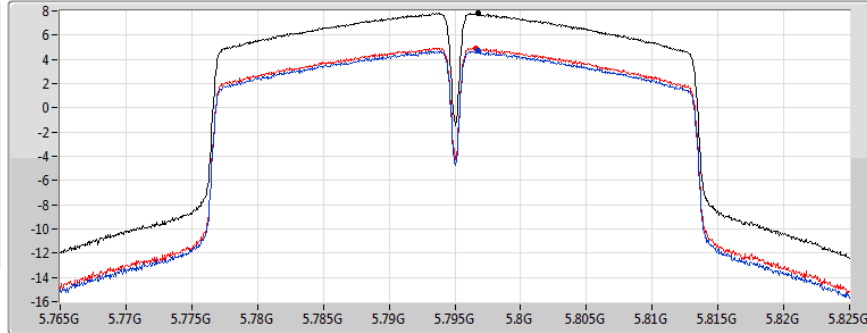
802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

05/02/2018

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



Sum ☒
Port 1 ☐
Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.85	7.85	4.72	4.94

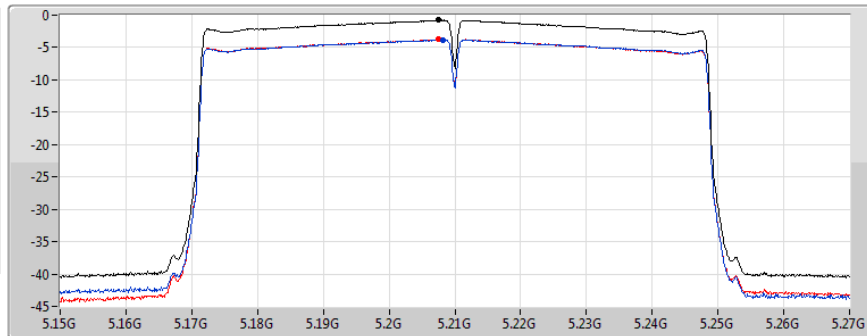
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

05/02/2018

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



Sum ☒
Port 1 ☐
Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.77	-0.77	-3.78	-3.72

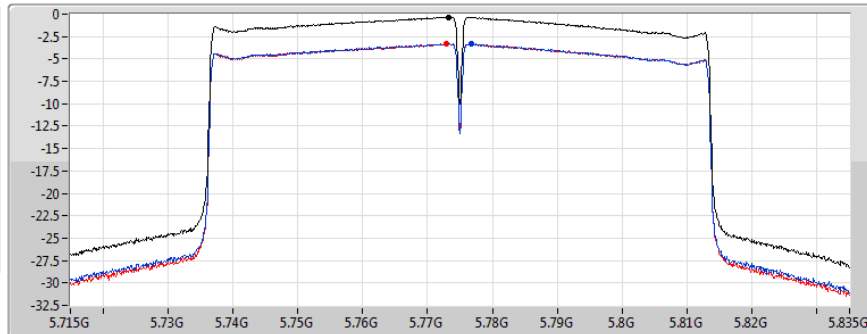
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz

05/02/2018

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



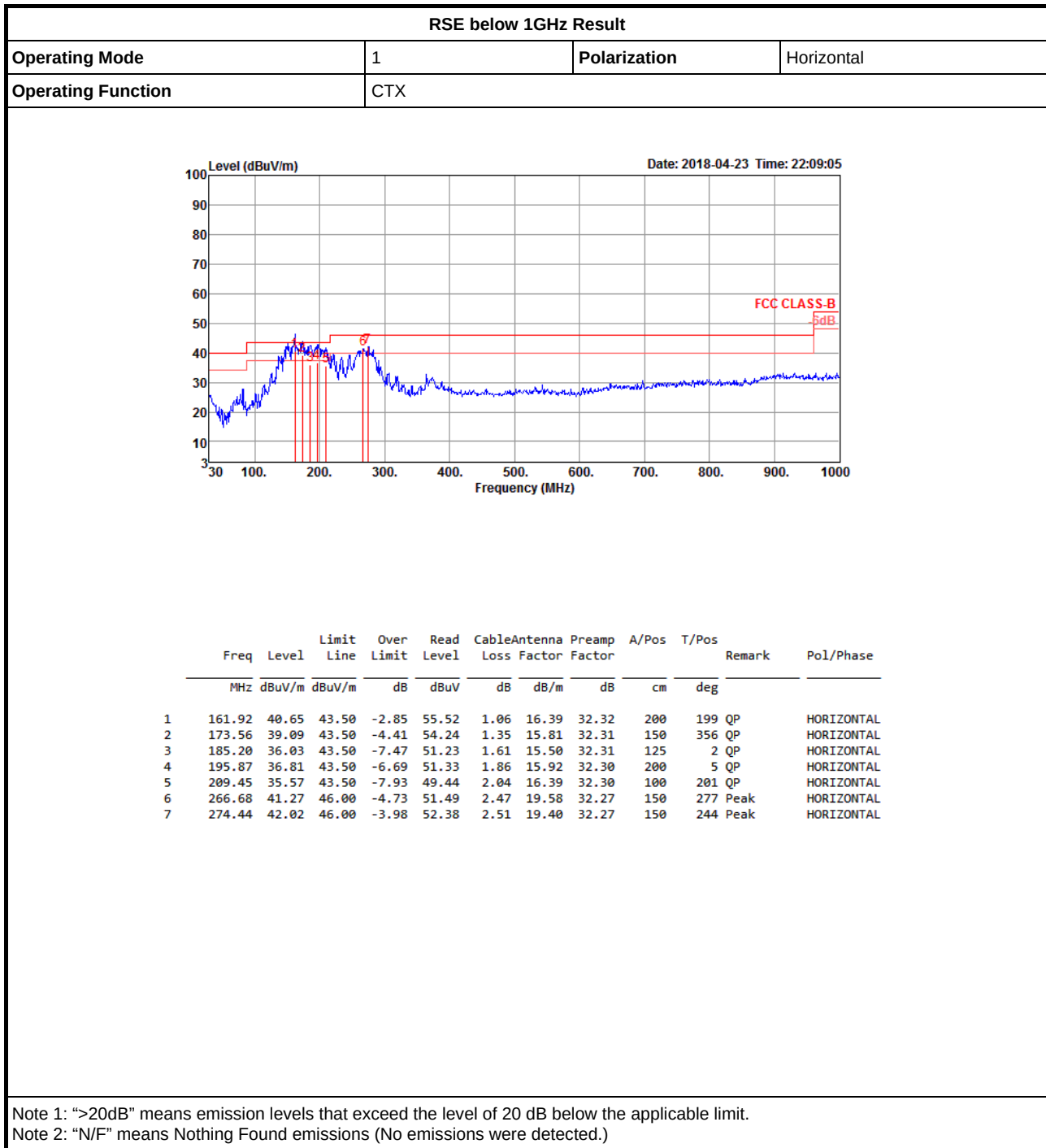
Sum ☒
Port 1 ☐
Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.32	-0.32	-3.31	-3.28



RSE below 1GHz Result

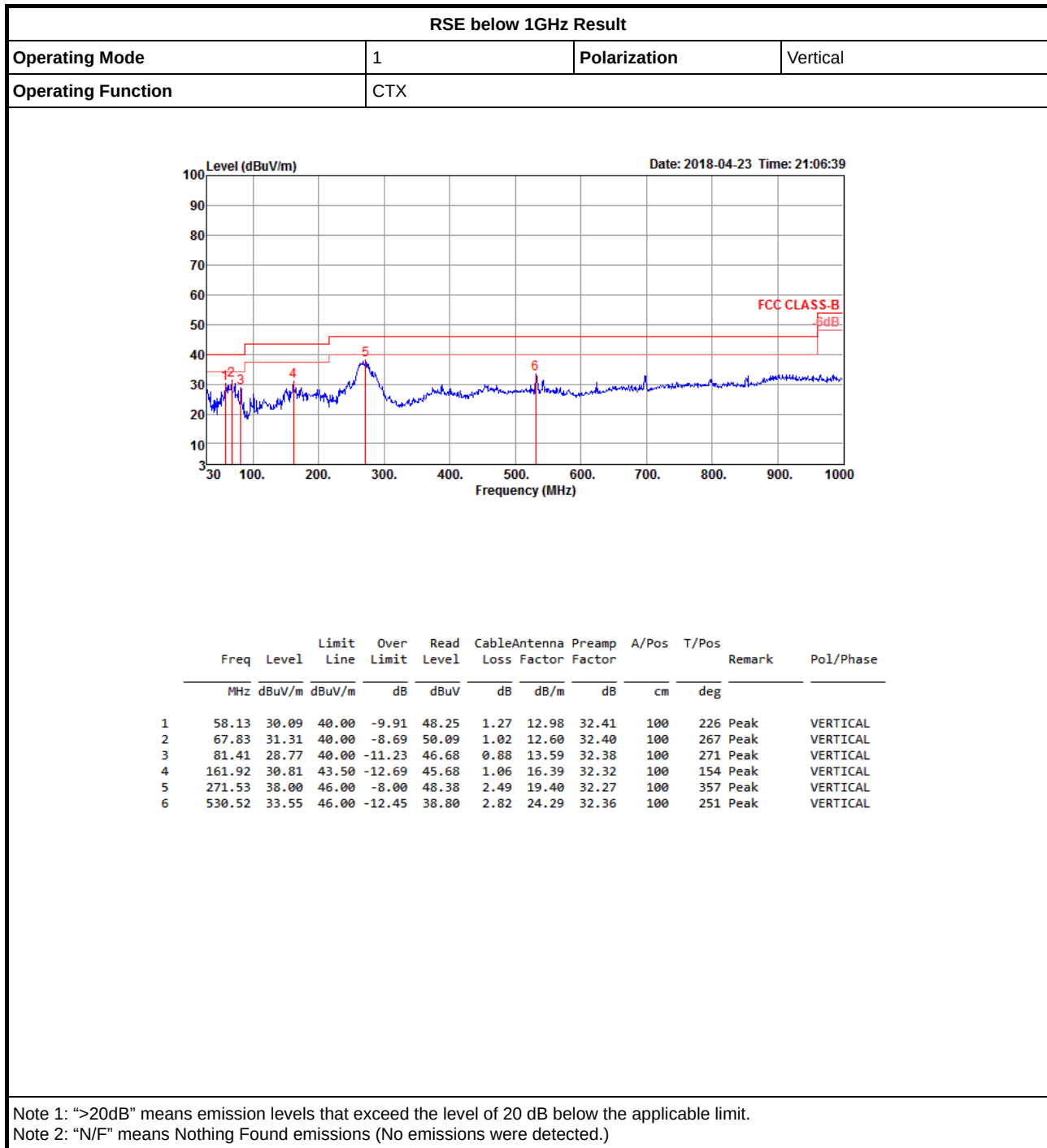
Appendix E.1





RSE below 1GHz Result

Appendix E.1





RSE TX above 1GHz Result

Appendix E.2

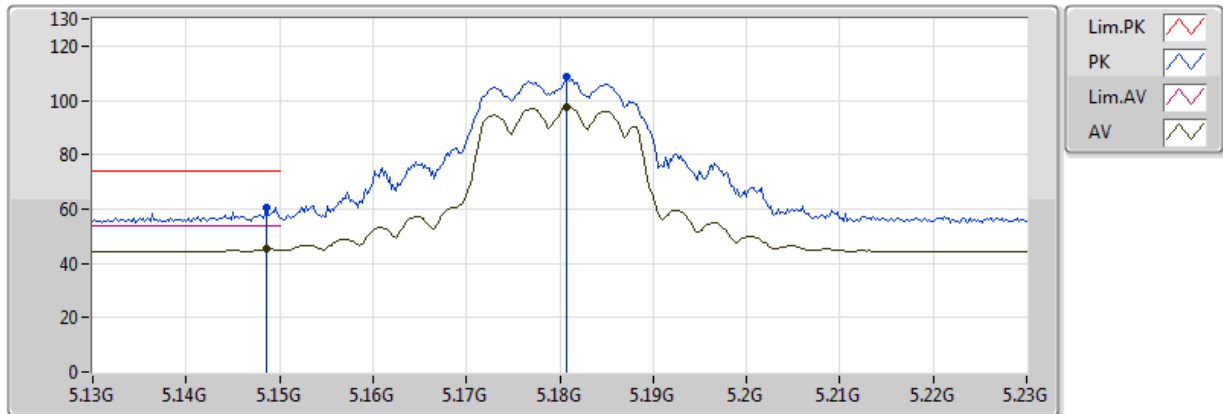
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1.(6Mbps)_2TX	Pass	AV	11.64718G	53.95	54.00	-0.05	15.02	3	Horizontal	284	1.51	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

03/04/2018



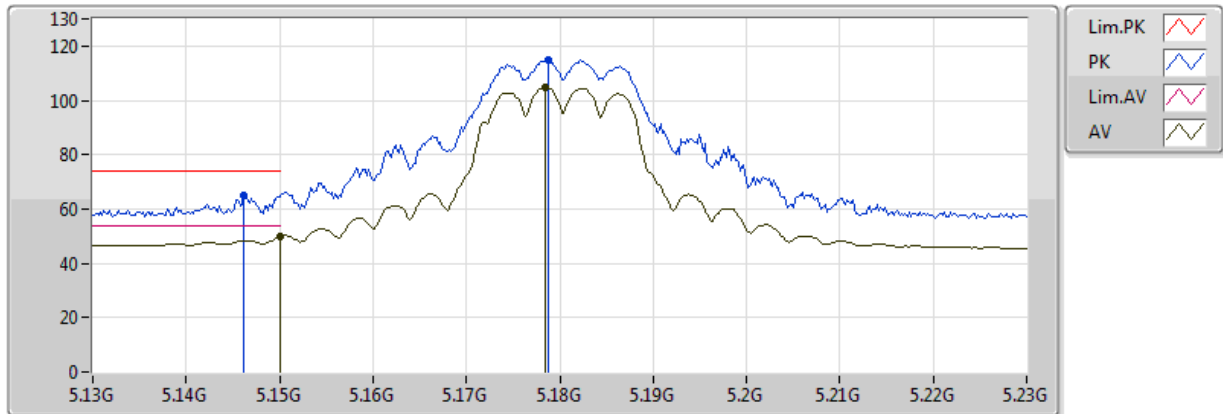
EUT Y_2TX
Setting 23
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1486G	60.78	74.00	-13.22	4.90	3	Vertical	139	1.89	-
AV	5.1486G	45.17	54.00	-8.83	4.90	3	Vertical	139	1.89	-
PK	5.1808G	108.61	Inf	-Inf	4.94	3	Vertical	139	1.89	-
AV	5.1808G	97.67	Inf	-Inf	4.94	3	Vertical	139	1.89	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

03/04/2018



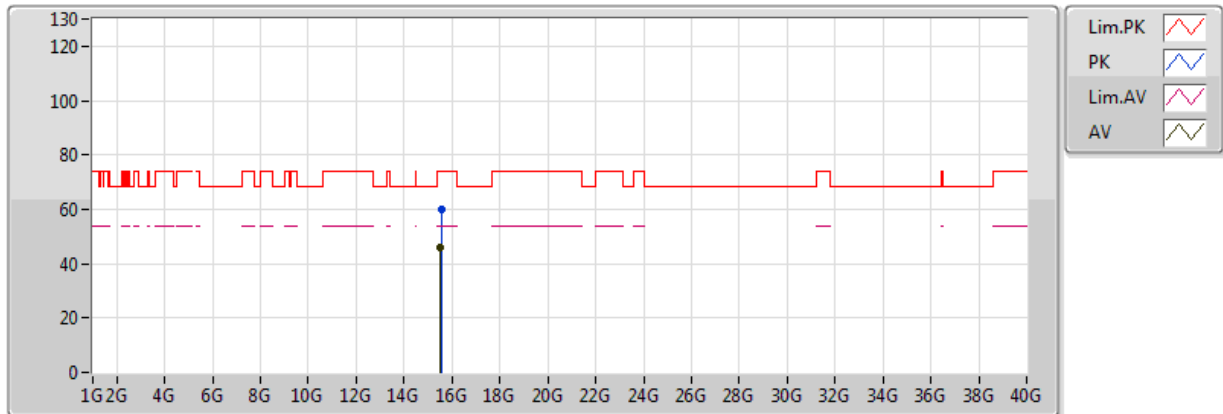
EUT Y_2TX
Setting 23
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1462G	64.84	74.00	-9.16	4.89	3	Horizontal	3	1.76	-
AV	5.149995G	49.72	54.00	-4.28	4.90	3	Horizontal	3	1.76	-
PK	5.1788G	114.76	Inf	-Inf	4.93	3	Horizontal	3	1.76	-
AV	5.1784G	104.85	Inf	-Inf	4.93	3	Horizontal	3	1.76	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

17/04/2018



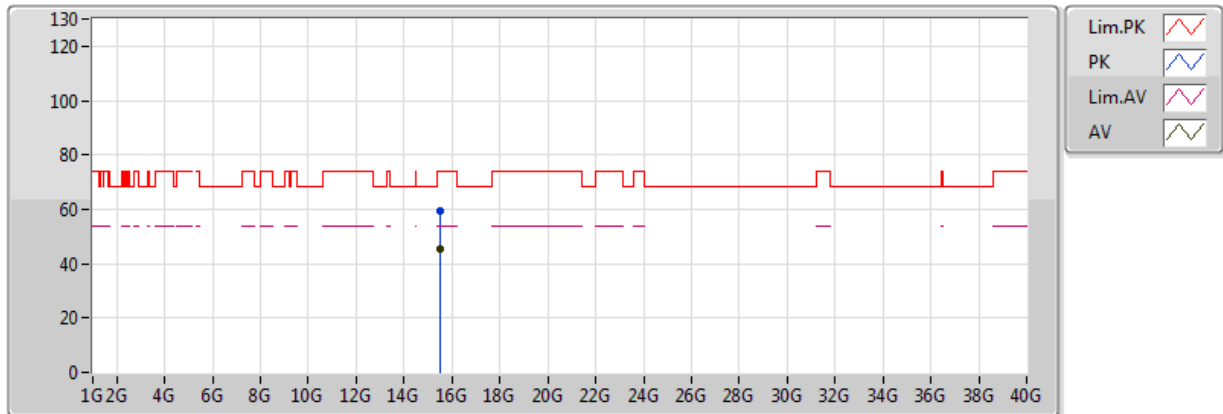
EUT Y_2TX
Setting 23
06-L-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.54008G	60.02	74.00	-13.98	18.63	3	Vertical	274	1.50	-
AV	15.532G	46.21	54.00	-7.79	18.66	3	Vertical	274	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

17/04/2018



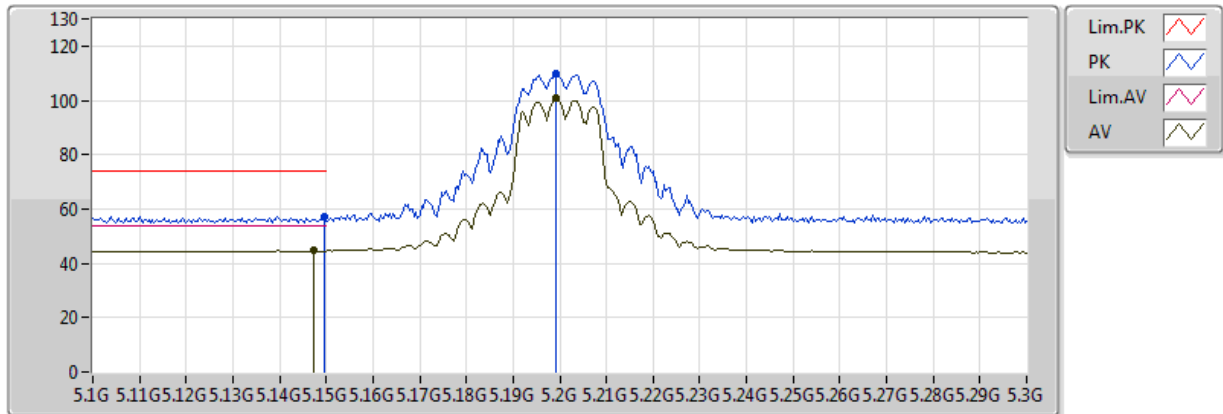
EUT Y_2TX
Setting 23
06-L-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.5346G	59.54	74.00	-14.46	18.65	3	Horizontal	43	1.50	-
AV	15.53196G	45.49	54.00	-8.51	18.66	3	Horizontal	43	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

03/04/2018



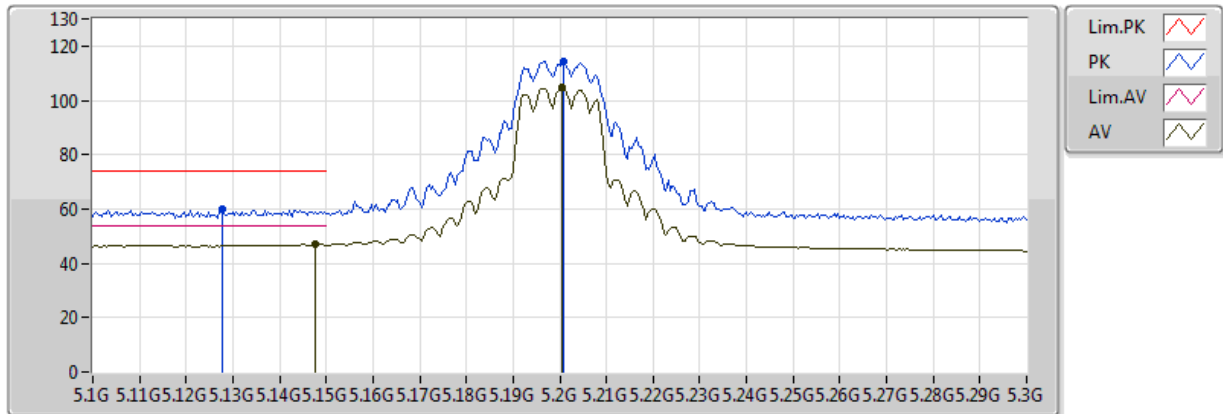
EUT Y_2TX
Setting 22
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1496G	57.22	74.00	-16.78	4.90	3	Vertical	91	2.03	-
AV	5.1472G	44.60	54.00	-9.40	4.90	3	Vertical	91	2.03	-
PK	5.1992G	110.09	Inf	-Inf	4.96	3	Vertical	91	2.03	-
AV	5.1992G	100.75	Inf	-Inf	4.96	3	Vertical	91	2.03	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

03/04/2018



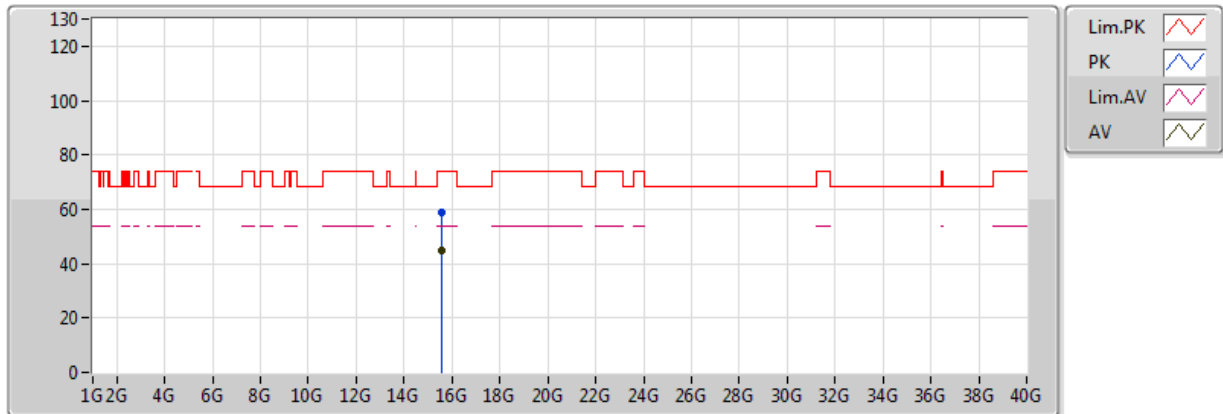
EUT Y_2TX
Setting 22
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1276G	59.70	74.00	-14.30	4.87	3	Horizontal	3	1.66	-
AV	5.1476G	46.94	54.00	-7.06	4.90	3	Horizontal	3	1.66	-
PK	5.2008G	114.38	Inf	-Inf	4.96	3	Horizontal	3	1.66	-
AV	5.2004G	104.91	Inf	-Inf	4.96	3	Horizontal	3	1.66	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

17/04/2018



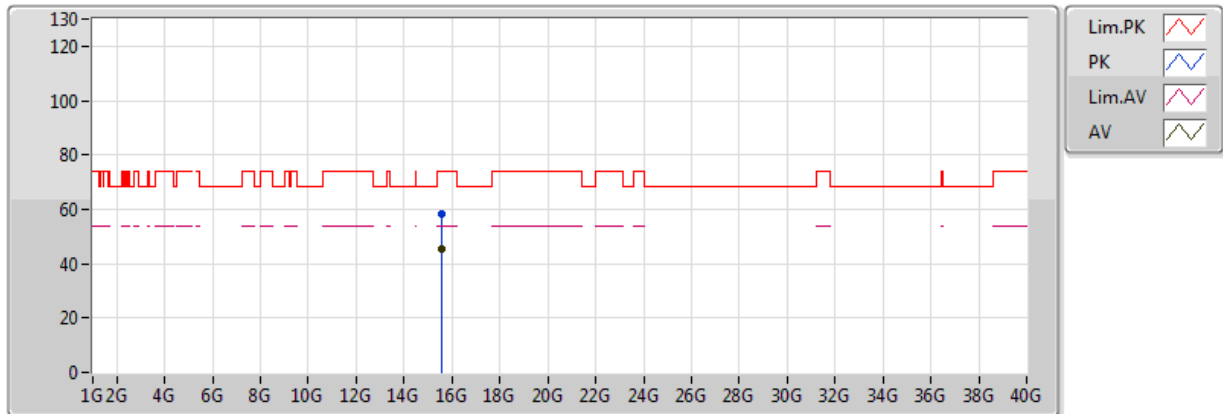
EUT Y_2TX
Setting 22
06-L-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.59728G	58.88	74.00	-15.12	15.84	3	Vertical	314	1.19	-
AV	15.59008G	44.89	54.00	-9.11	15.85	3	Vertical	314	1.19	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

17/04/2018



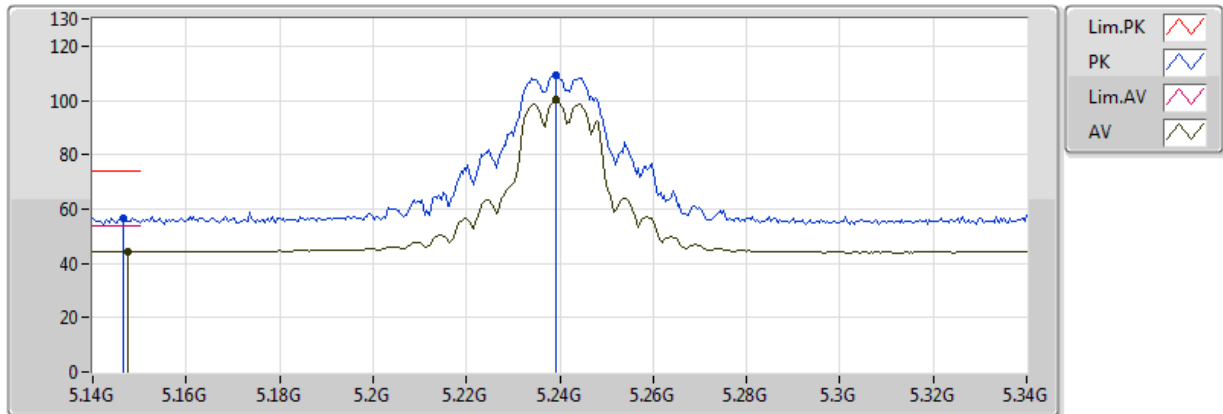
EUT Y_2TX
Setting 22
06-L-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.59236G	58.53	74.00	-15.47	15.85	3	Horizontal	242	2.23	-
AV	15.59G	45.33	54.00	-8.67	15.85	3	Horizontal	242	2.23	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

03/04/2018



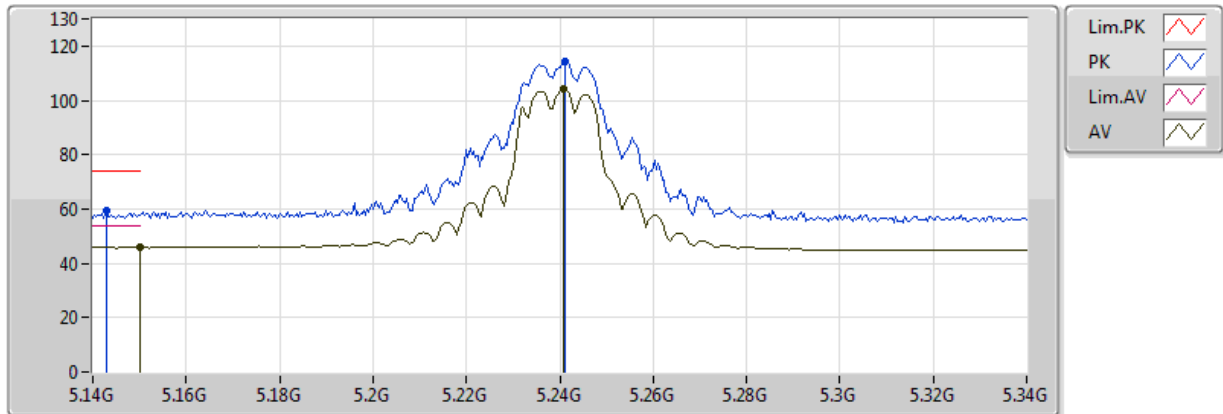
EUT Y_2TX
Setting 22
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1464G	56.70	74.00	-17.30	4.89	3	Vertical	81	1.98	-
AV	5.1476G	44.18	54.00	-9.82	4.90	3	Vertical	81	1.98	-
PK	5.2392G	109.50	Inf	-Inf	5.14	3	Vertical	81	1.98	-
AV	5.2392G	100.25	Inf	-Inf	5.14	3	Vertical	81	1.98	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

03/04/2018



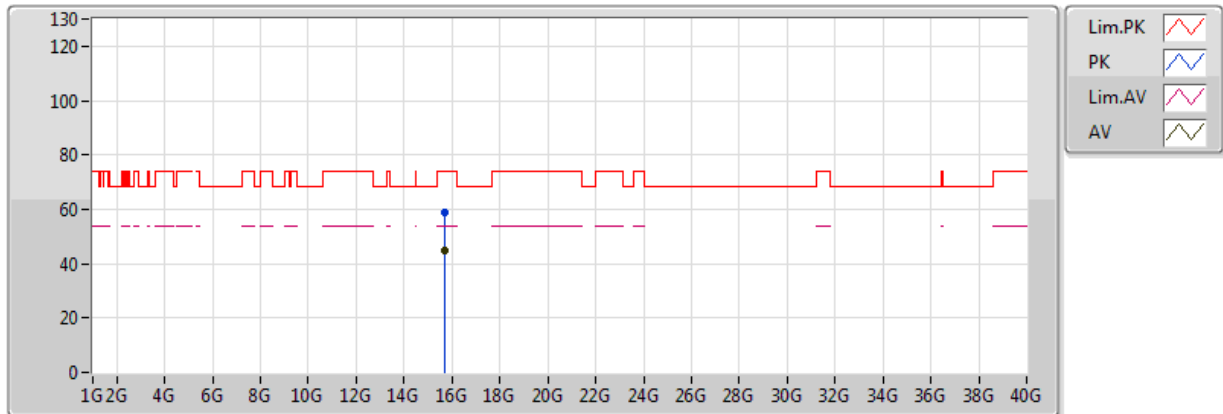
EUT Y_2TX
Setting 22
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1428G	59.40	74.00	-14.60	4.89	3	Horizontal	4	1.57	-
AV	5.149995G	45.78	54.00	-8.22	4.90	3	Horizontal	4	1.57	-
PK	5.2412G	114.22	Inf	-Inf	5.15	3	Horizontal	4	1.57	-
AV	5.2408G	104.48	Inf	-Inf	5.14	3	Horizontal	4	1.57	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

17/04/2018



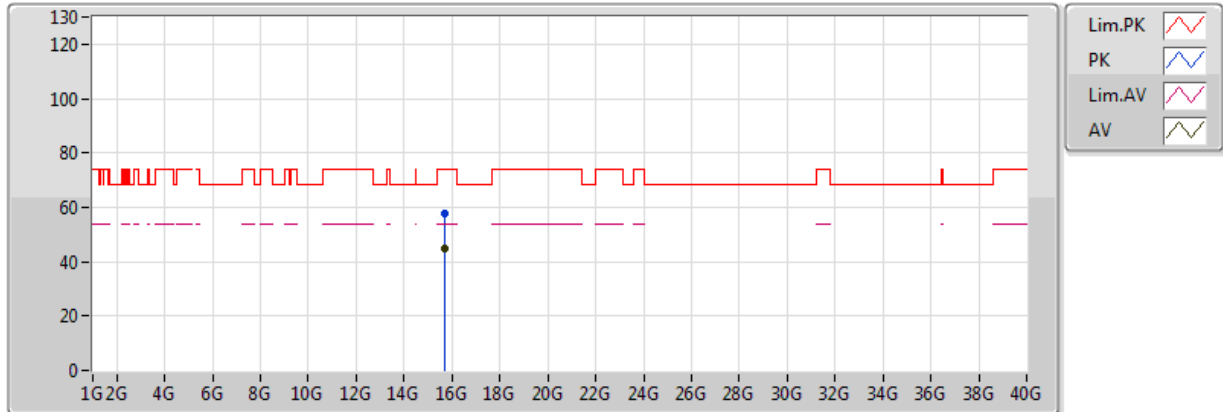
EUT Y_2TX
Setting 22
06-L-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.71048G	58.71	74.00	-15.29	15.66	3	Vertical	52	1.87	-
AV	15.71904G	44.96	54.00	-9.04	15.65	3	Vertical	52	1.87	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

17/04/2018



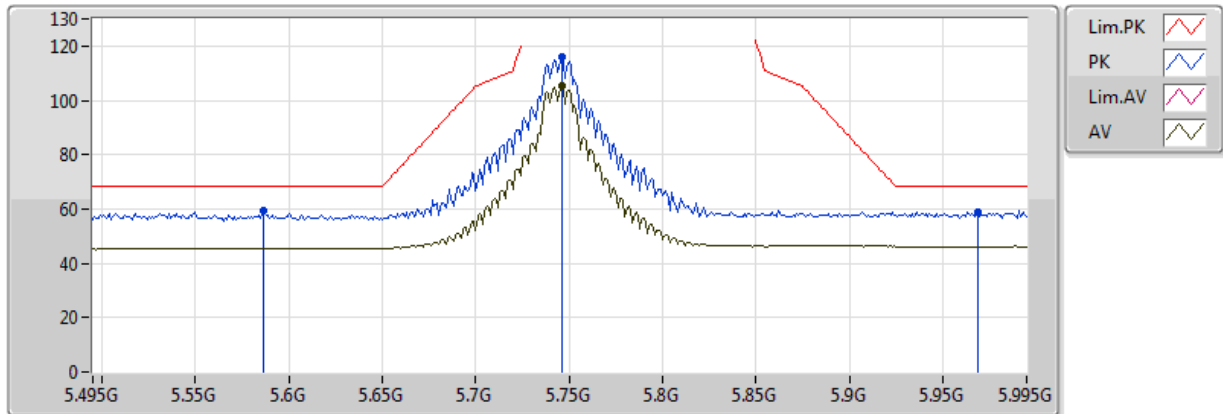
EUT Y_2TX
Setting 22
06-L-2
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.71596G	57.92	74.00	-16.08	15.65	3	Horizontal	168	2.47	-
AV	15.71244G	44.86	54.00	-9.14	15.66	3	Horizontal	168	2.47	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

03/04/2018



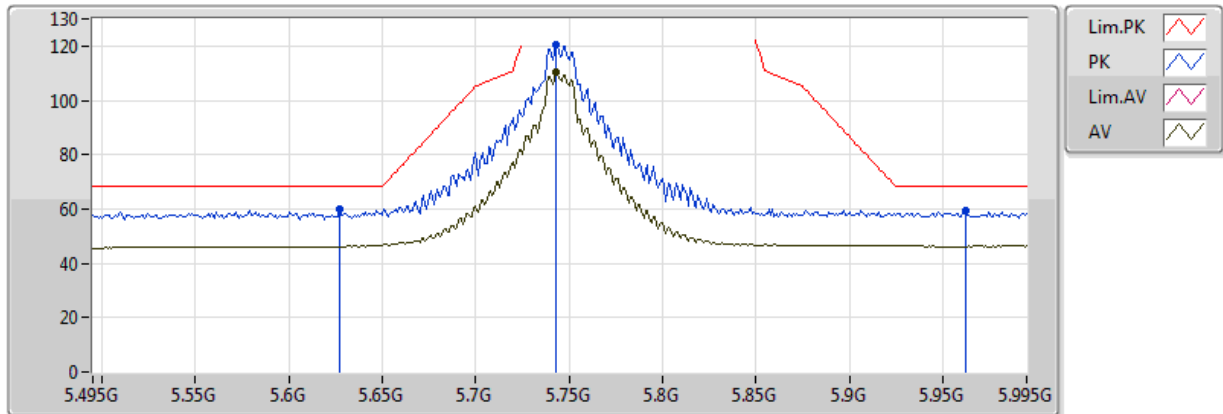
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.586G	59.16	68.20	-9.04	6.23	3	Vertical	325	1.70	-
PK	5.746G	115.82	Inf	-Inf	6.87	3	Vertical	325	1.70	-
AV	5.746G	105.41	Inf	-Inf	6.87	3	Vertical	325	1.70	-
PK	5.969G	58.75	68.20	-9.45	7.42	3	Vertical	325	1.70	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

03/04/2018



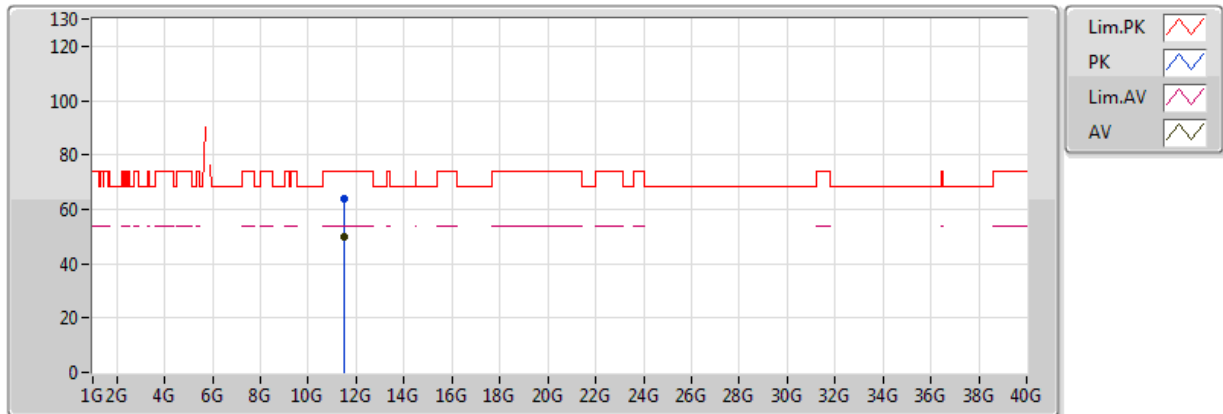
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.627G	59.85	68.20	-8.35	6.38	3	Horizontal	341	1.78	-
PK	5.743G	120.27	Inf	-Inf	6.86	3	Horizontal	341	1.78	-
AV	5.743G	110.13	Inf	-Inf	6.86	3	Horizontal	341	1.78	-
PK	5.962G	59.22	68.20	-8.98	7.41	3	Horizontal	341	1.78	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

18/04/2018



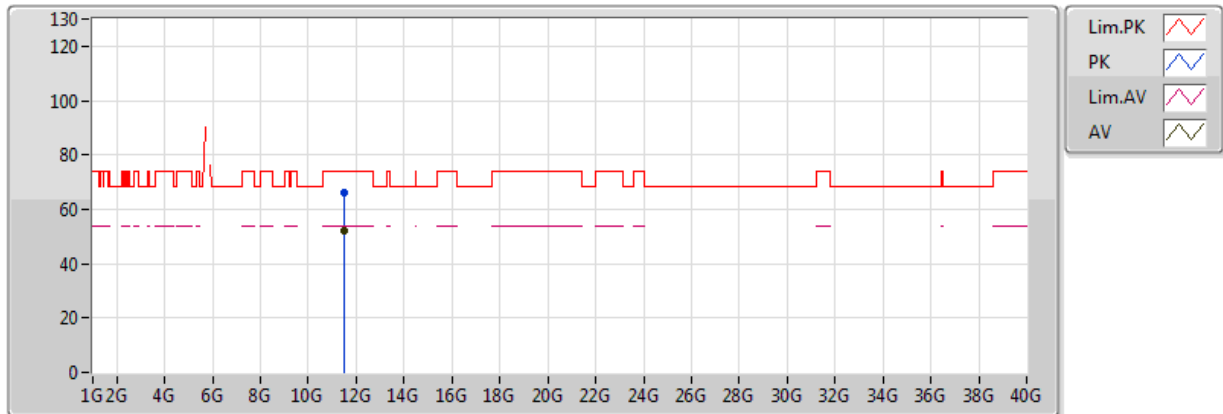
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.48904G	63.78	74.00	-10.22	15.19	3	Vertical	347	1.50	-
AV	11.48856G	49.84	54.00	-4.16	15.19	3	Vertical	347	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

18/04/2018



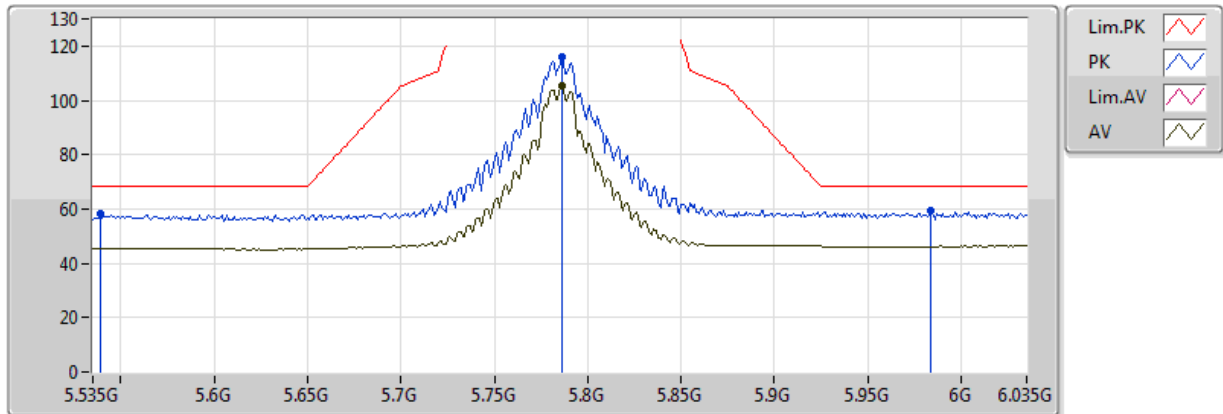
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.49408G	66.16	74.00	-7.84	15.18	3	Horizontal	310	1.43	-
AV	11.49G	52.00	54.00	-2.00	15.19	3	Horizontal	310	1.43	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

03/04/2018



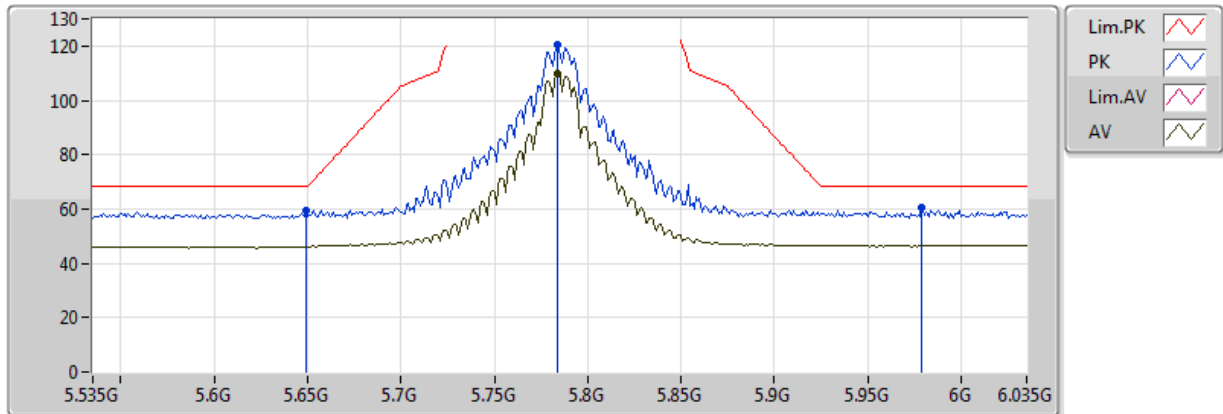
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.539G	58.39	68.20	-9.81	6.10	3	Vertical	322	1.77	-
PK	5.786G	115.84	Inf	-Inf	7.04	3	Vertical	322	1.77	-
AV	5.786G	105.22	Inf	-Inf	7.04	3	Vertical	322	1.77	-
PK	5.984G	59.28	68.20	-8.92	7.45	3	Vertical	322	1.77	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

03/04/2018



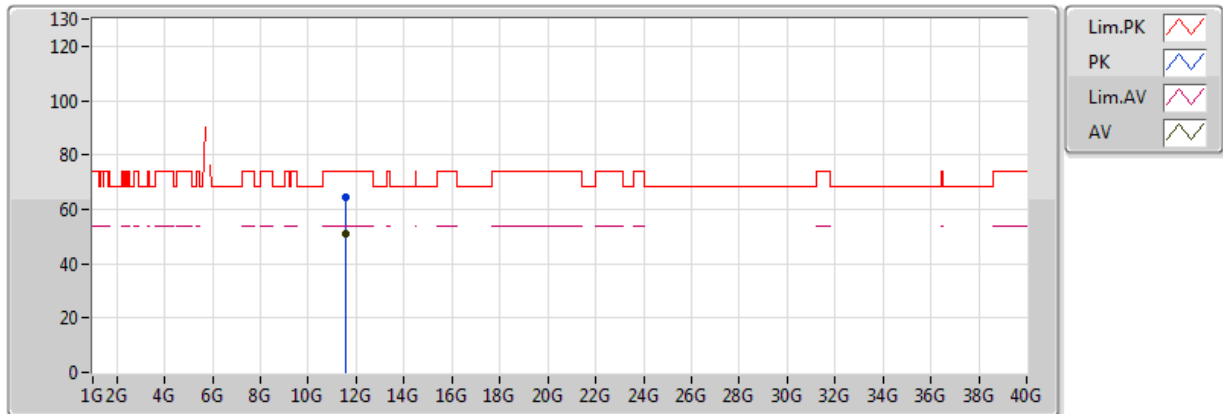
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.649G	59.27	68.20	-8.93	6.47	3	Horizontal	344	1.73	-
PK	5.784G	120.21	Inf	-Inf	7.03	3	Horizontal	344	1.73	-
AV	5.784G	109.82	Inf	-Inf	7.03	3	Horizontal	344	1.73	-
PK	5.979G	60.45	68.20	-7.75	7.43	3	Horizontal	344	1.73	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

18/04/2018



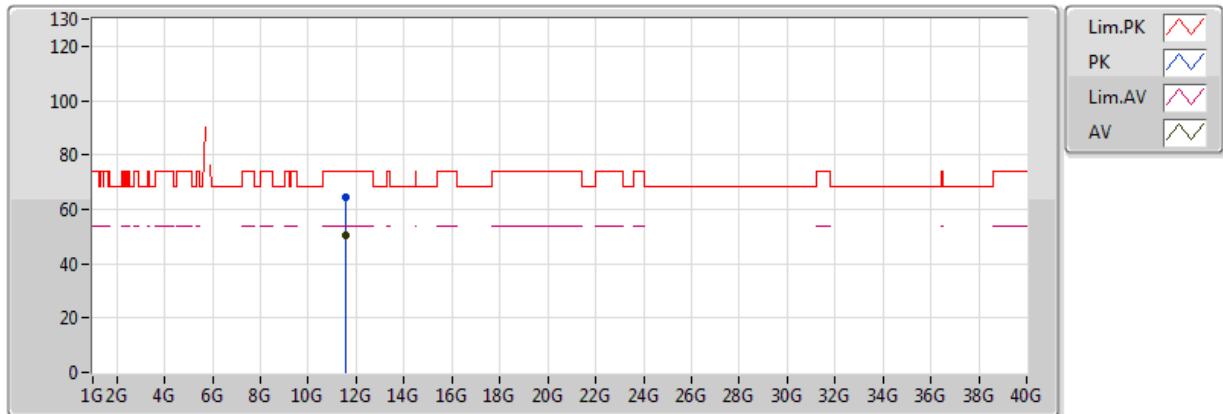
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.56784G	64.47	74.00	-9.53	15.10	3	Vertical	338	1.70	-
AV	11.57204G	50.78	54.00	-3.22	15.10	3	Vertical	338	1.70	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

18/04/2018



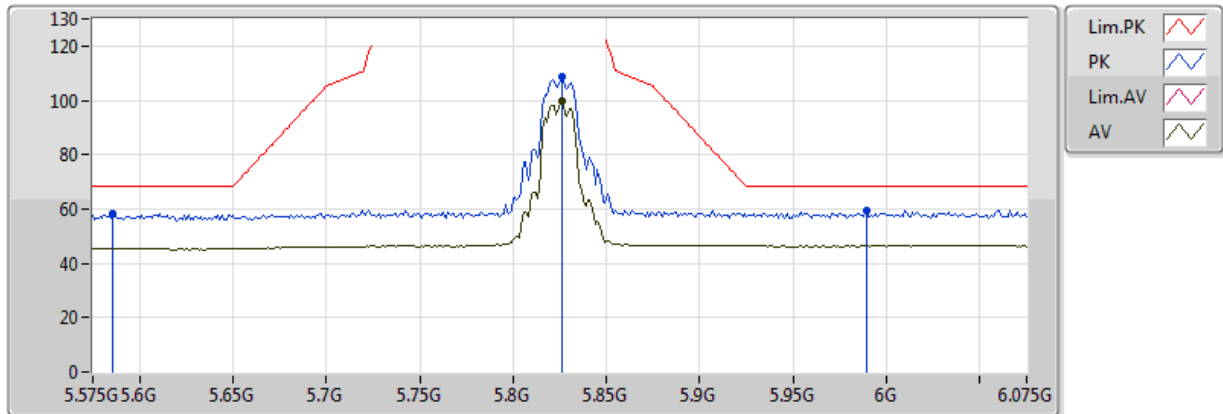
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.57474G	64.20	74.00	-9.80	15.10	3	Horizontal	324	1.80	-
AV	11.57G	50.35	54.00	-3.65	15.10	3	Horizontal	324	1.80	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

03/04/2018



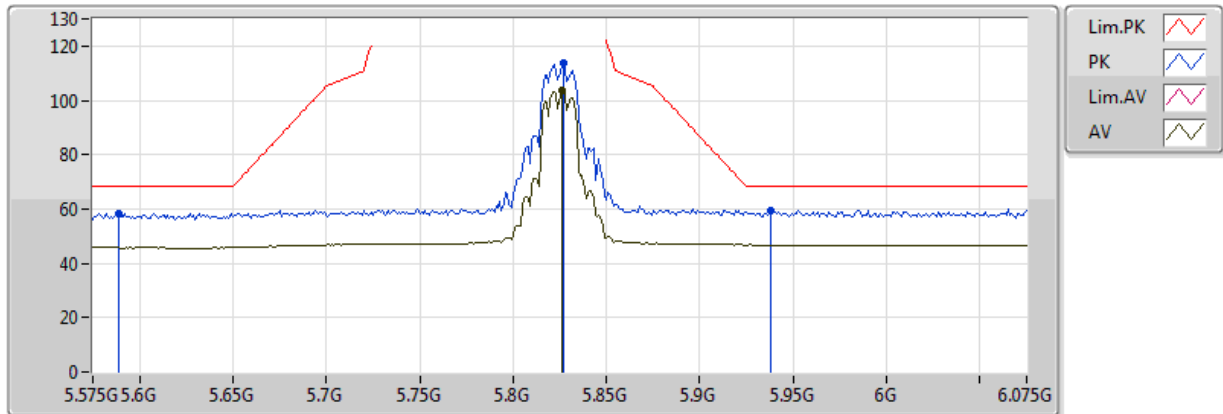
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.586G	58.43	68.20	-9.77	6.23	3	Vertical	323	1.81	-
PK	5.826G	108.97	Inf	-Inf	7.15	3	Vertical	323	1.81	-
AV	5.826G	99.65	Inf	-Inf	7.15	3	Vertical	323	1.81	-
PK	5.989G	59.51	68.20	-8.69	7.46	3	Vertical	323	1.81	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

03/04/2018



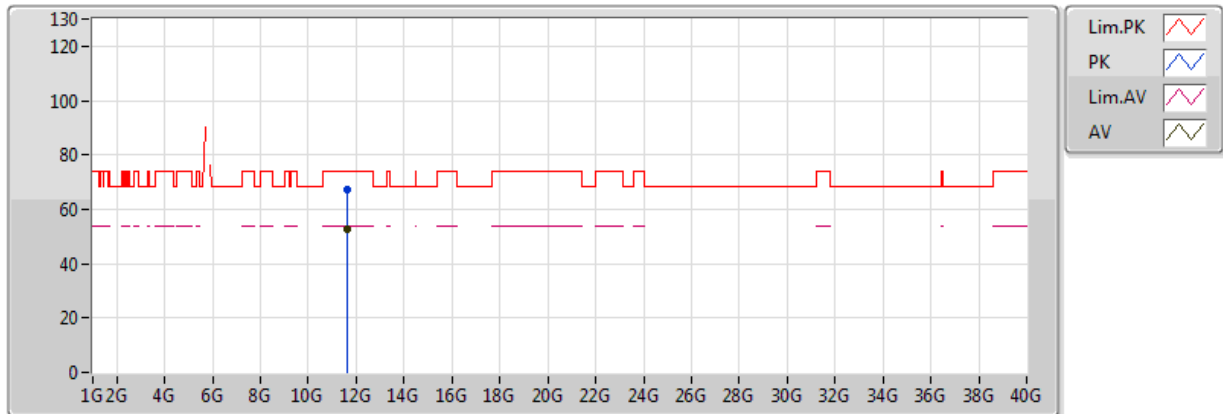
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.589G	58.43	68.20	-9.77	6.24	3	Horizontal	333	1.56	-
PK	5.827G	113.65	Inf	-Inf	7.15	3	Horizontal	333	1.56	-
AV	5.826G	103.91	Inf	-Inf	7.15	3	Horizontal	333	1.56	-
PK	5.938G	59.47	68.20	-8.73	7.36	3	Horizontal	333	1.56	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

18/04/2018



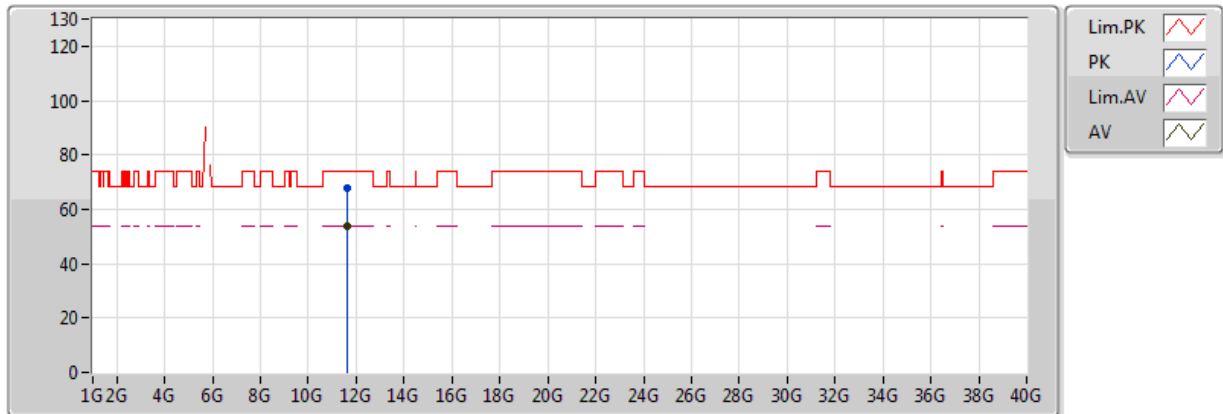
EUT Y_2TX
Setting 3A
02-L-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.65618G	67.28	74.00	-6.72	15.01	3	Vertical	341	1.71	-
AV	11.64772G	52.74	54.00	-1.26	15.02	3	Vertical	341	1.71	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

18/04/2018



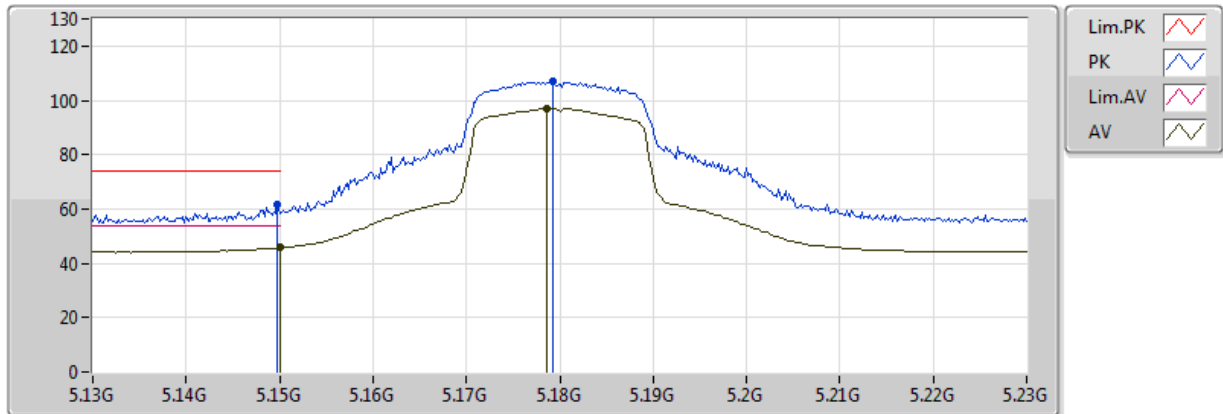
EUT Y_2TX
Setting 3A
02-L-3
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64718G	53.95	54.00	-0.05	15.02	3	Horizontal	284	1.51	-
PK	11.65132G	67.80	74.00	-6.20	15.01	3	Horizontal	284	1.51	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

03/04/2018



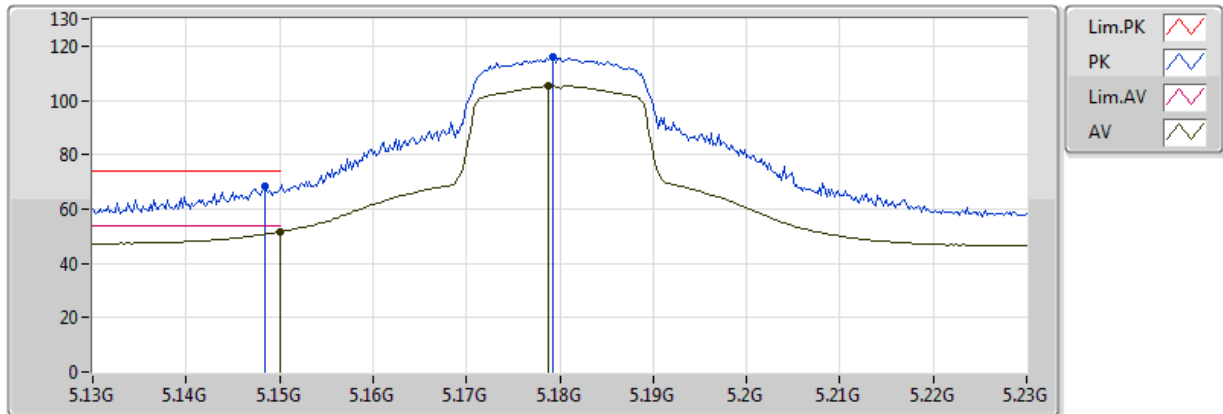
EUT Y_2TX
Setting 23
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1498G	61.38	74.00	-12.62	4.90	3	Vertical	360	1.71	-
AV	5.149995G	45.72	54.00	-8.28	4.90	3	Vertical	360	1.71	-
PK	5.1792G	106.86	Inf	-Inf	4.94	3	Vertical	360	1.71	-
AV	5.1786G	96.95	Inf	-Inf	4.93	3	Vertical	360	1.71	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

03/04/2018



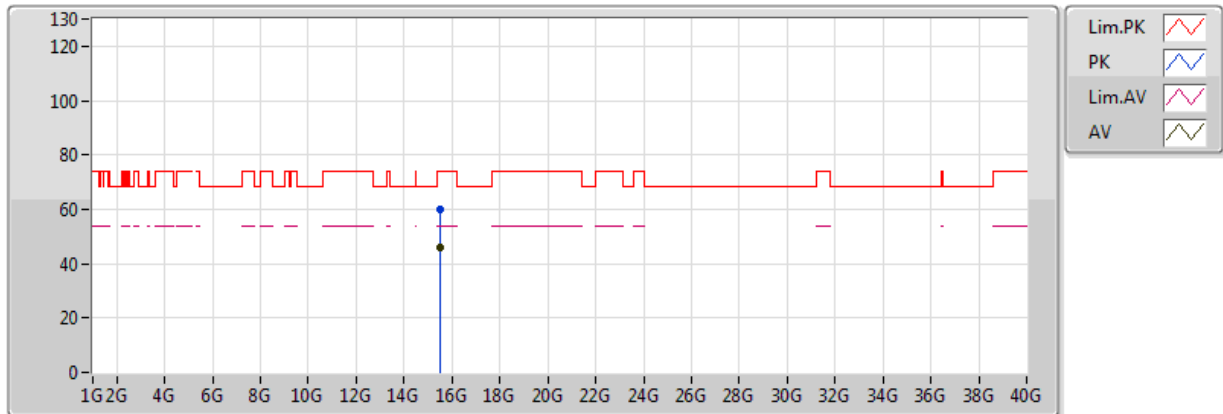
EUT Y_2TX
Setting 23
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1484G	68.20	74.00	-5.80	4.90	3	Horizontal	344	1.91	-
AV	5.149995G	51.58	54.00	-2.42	4.90	3	Horizontal	344	1.91	-
PK	5.1792G	115.85	Inf	-Inf	4.94	3	Horizontal	344	1.91	-
AV	5.1788G	105.27	Inf	-Inf	4.93	3	Horizontal	344	1.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

18/04/2018



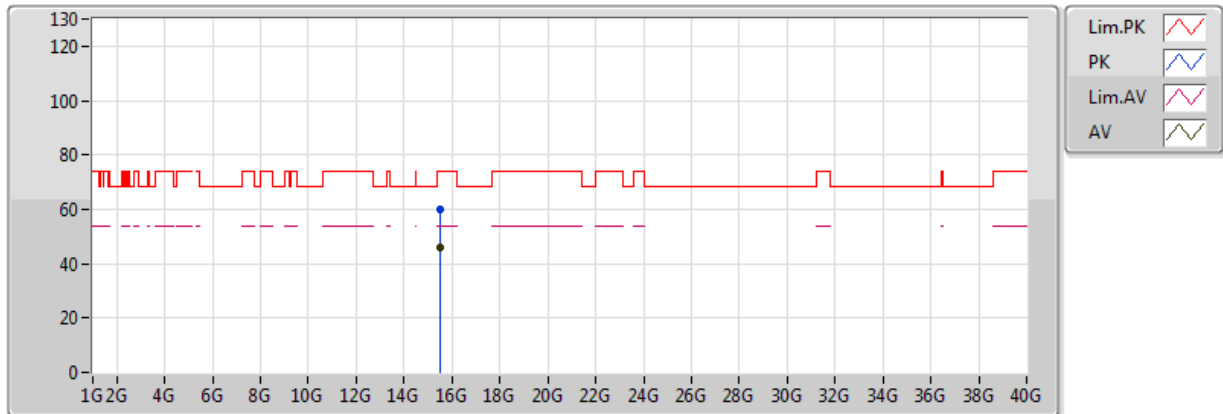
EUT Y_2TX
Setting 23
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.52884G	60.10	74.00	-13.90	16.35	3	Vertical	17	1.50	-
AV	15.5265G	46.09	54.00	-7.91	16.36	3	Vertical	17	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

18/04/2018



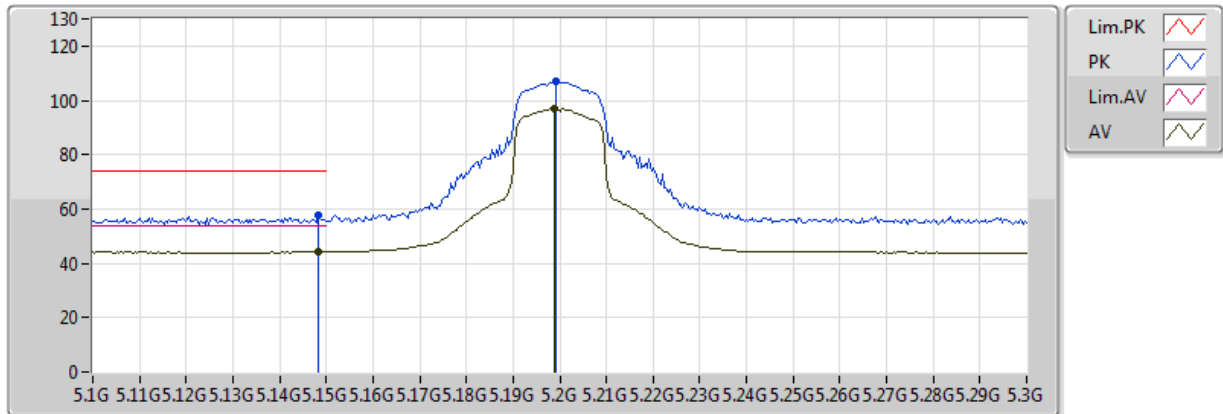
EUT Y_2TX
Setting 23
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.52716G	59.76	74.00	-14.24	16.36	3	Horizontal	192	1.50	-
AV	15.52926G	46.17	54.00	-7.83	16.35	3	Horizontal	192	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

03/04/2018



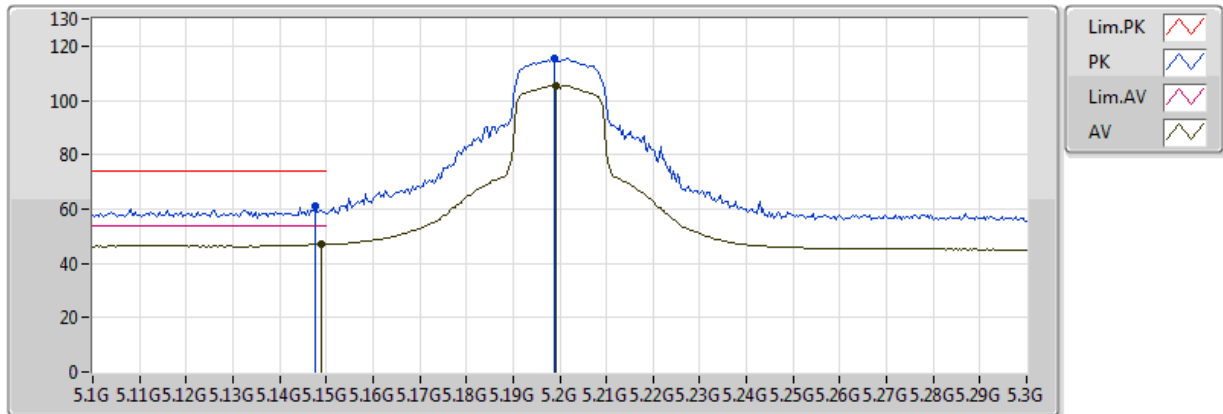
EUT Y_2TX
Setting 25
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1484G	57.44	74.00	-16.56	4.90	3	Vertical	304	1.50	-
AV	5.1484G	44.21	54.00	-9.79	4.90	3	Vertical	304	1.50	-
PK	5.1992G	107.06	Inf	-Inf	4.96	3	Vertical	304	1.50	-
AV	5.1988G	96.90	Inf	-Inf	4.96	3	Vertical	304	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

03/04/2018



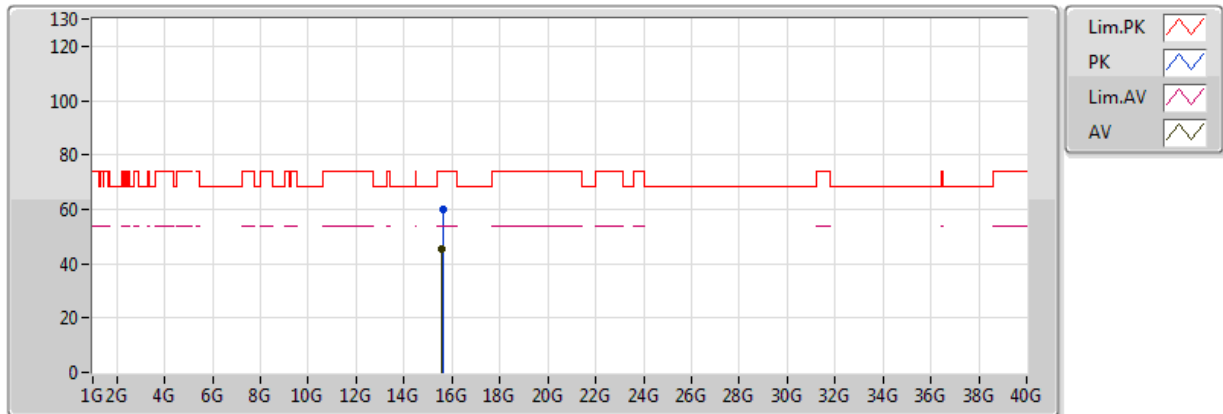
EUT Y_2TX
Setting 25
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1476G	61.03	74.00	-12.97	4.90	3	Horizontal	346	1.81	-
AV	5.1488G	46.96	54.00	-7.04	4.90	3	Horizontal	346	1.81	-
PK	5.1988G	115.69	Inf	-Inf	4.96	3	Horizontal	346	1.81	-
AV	5.1992G	105.49	Inf	-Inf	4.96	3	Horizontal	346	1.81	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

18/04/2018



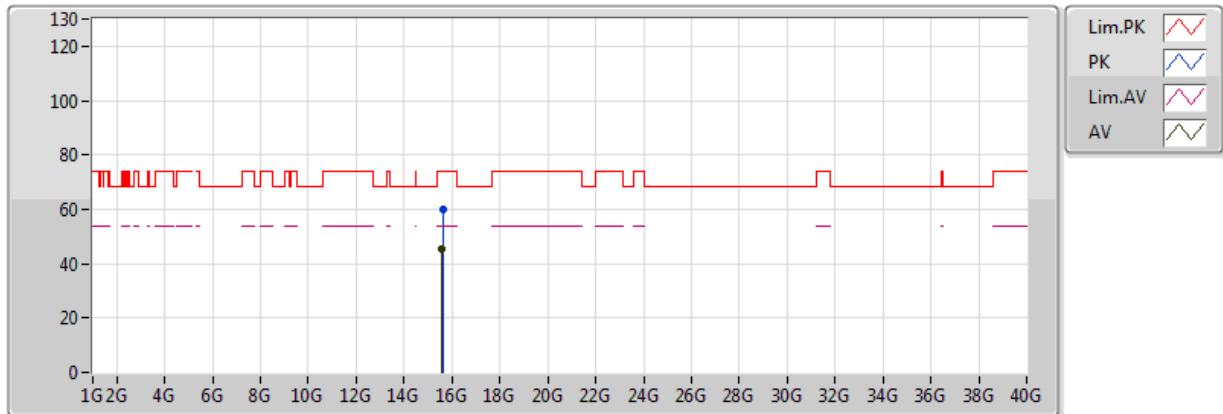
EUT Y_2TX
Setting 25
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.60648G	59.73	74.00	-14.27	16.13	3	Vertical	58	1.50	-
AV	15.58506G	45.52	54.00	-8.48	16.20	3	Vertical	58	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

18/04/2018



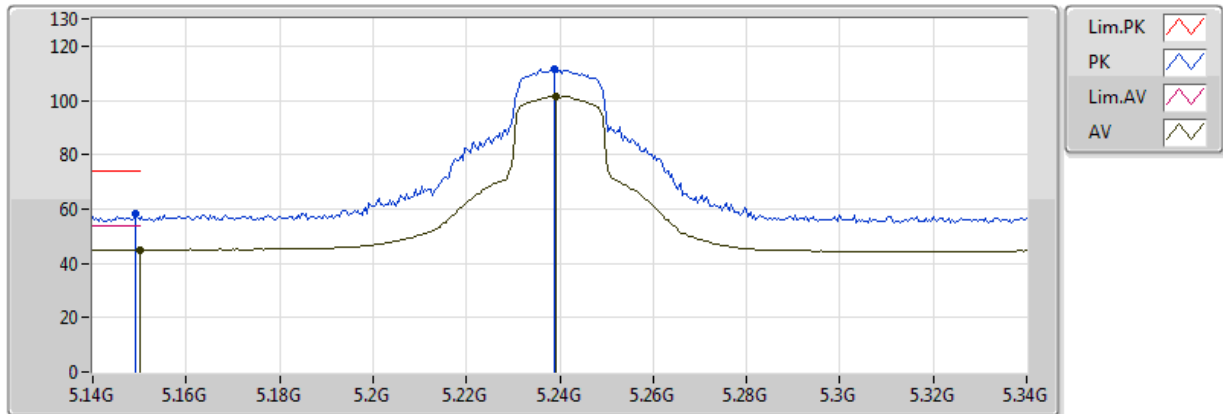
EUT Y_2TX
Setting 25
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.6069G	59.70	74.00	-14.30	16.13	3	Horizontal	80	1.51	-
AV	15.59058G	45.63	54.00	-8.37	16.18	3	Horizontal	80	1.51	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

03/04/2018



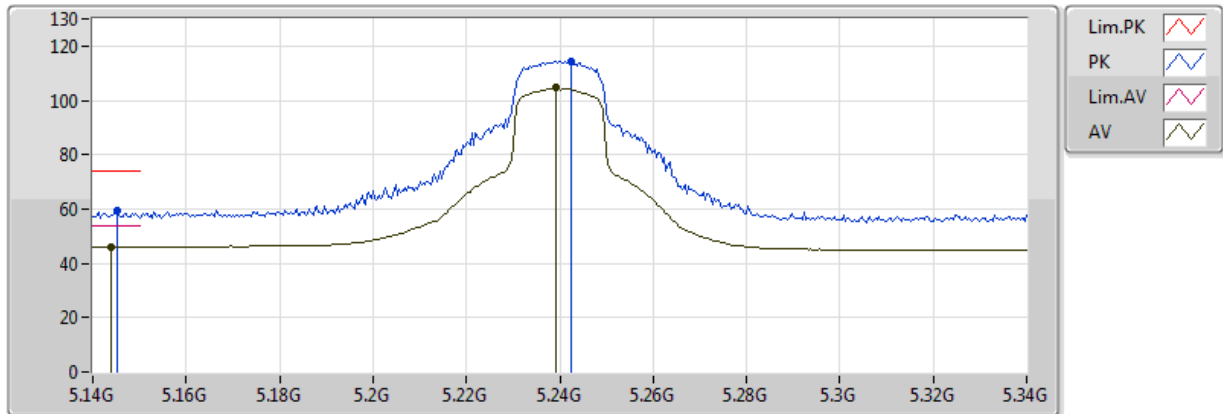
EUT Y_2TX
Setting 25
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1492G	58.07	74.00	-15.93	4.90	3	Vertical	82	2.77	-
AV	5.149995G	44.81	54.00	-9.19	4.90	3	Vertical	82	2.77	-
PK	5.2388G	111.60	Inf	-Inf	5.13	3	Vertical	82	2.77	-
AV	5.2392G	101.63	Inf	-Inf	5.14	3	Vertical	82	2.77	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

03/04/2018



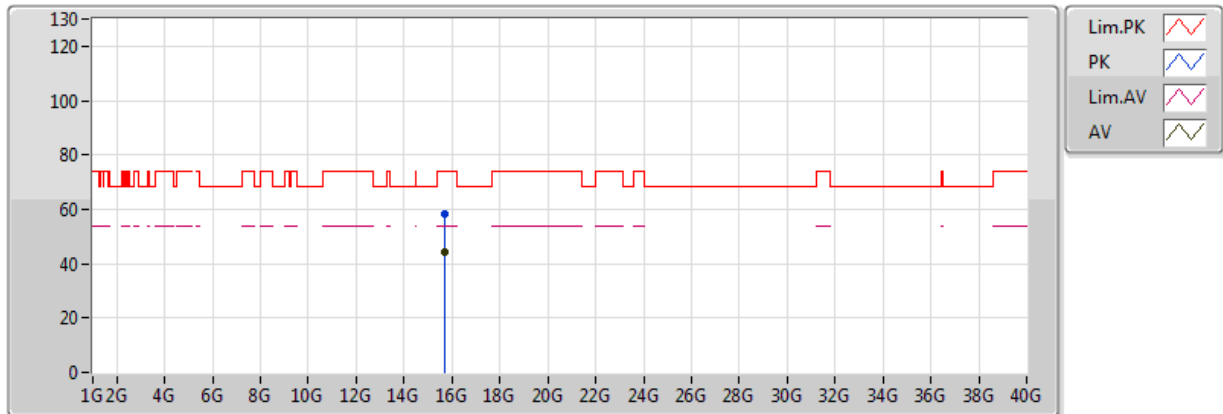
EUT Y_2TX
Setting 25
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1452G	59.14	74.00	-14.86	4.89	3	Horizontal	2	1.74	-
AV	5.144G	45.99	54.00	-8.01	4.89	3	Horizontal	2	1.74	-
PK	5.2424G	114.33	Inf	-Inf	5.15	3	Horizontal	2	1.74	-
AV	5.2392G	104.57	Inf	-Inf	5.14	3	Horizontal	2	1.74	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

18/04/2018



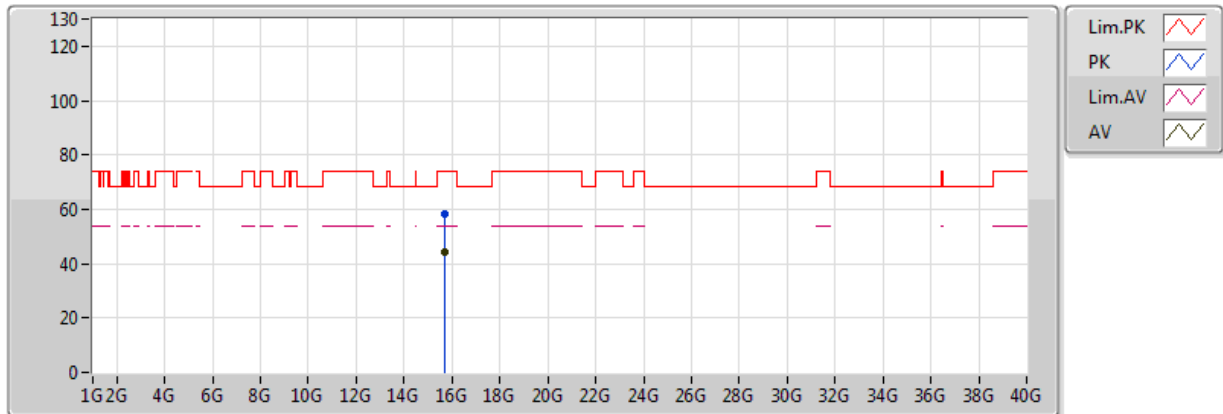
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Setting 25
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.71922G	58.19	74.00	-15.81	15.82	3	Vertical	187	2.52	-
AV	15.705G	44.41	54.00	-9.59	15.86	3	Vertical	187	2.52	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

18/04/2018



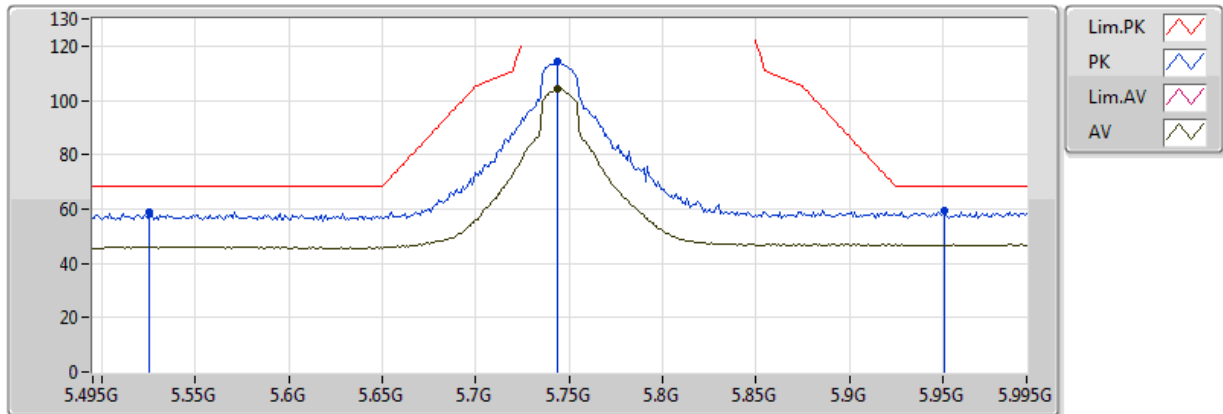
EUT Y_2TX
Setting 25
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.70542G	58.53	74.00	-15.47	15.85	3	Horizontal	219	1.50	-
AV	15.71034G	44.47	54.00	-9.53	15.84	3	Horizontal	219	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

04/04/2018



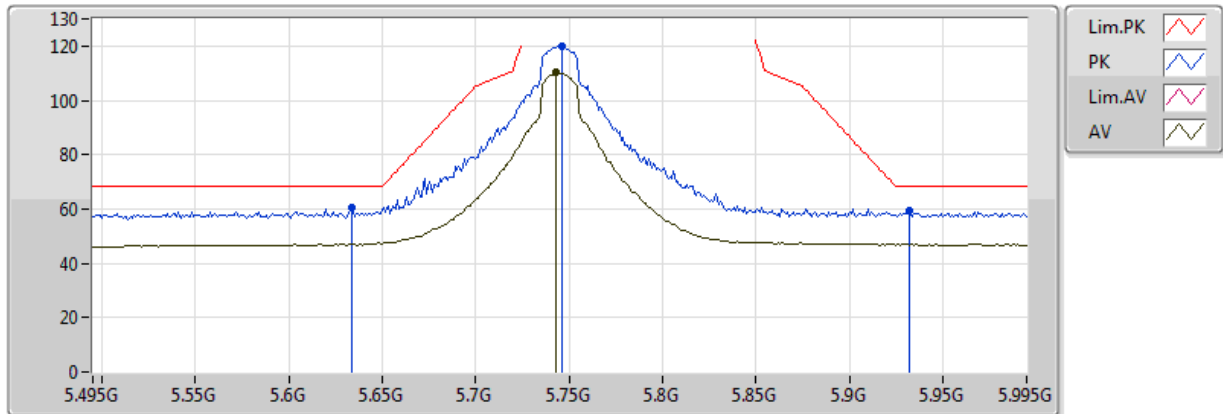
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.525G	58.84	68.20	-9.36	6.06	3	Vertical	321	1.50	-
PK	5.744G	114.48	Inf	-Inf	6.86	3	Vertical	321	1.50	-
AV	5.744G	104.26	Inf	-Inf	6.86	3	Vertical	321	1.50	-
PK	5.951G	59.59	68.20	-8.61	7.38	3	Vertical	321	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

04/04/2018



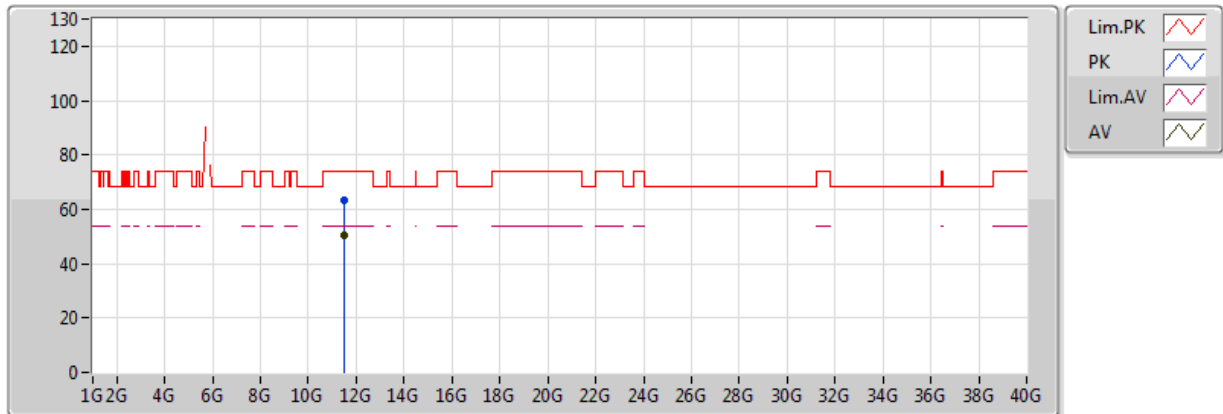
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.634G	60.35	68.20	-7.85	6.41	3	Horizontal	350	1.71	-
PK	5.746G	119.87	Inf	-Inf	6.87	3	Horizontal	350	1.71	-
AV	5.743G	110.33	Inf	-Inf	6.86	3	Horizontal	350	1.71	-
PK	5.932G	59.12	68.20	-9.08	7.35	3	Horizontal	350	1.71	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

18/04/2018



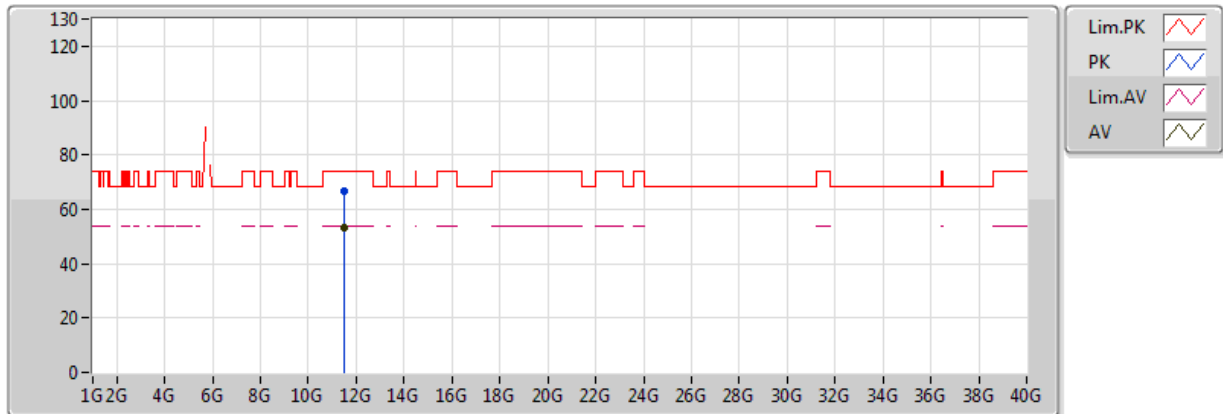
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.48748G	63.51	74.00	-10.49	15.19	3	Vertical	341	1.50	-
AV	11.48814G	50.43	54.00	-3.57	15.19	3	Vertical	341	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

18/04/2018



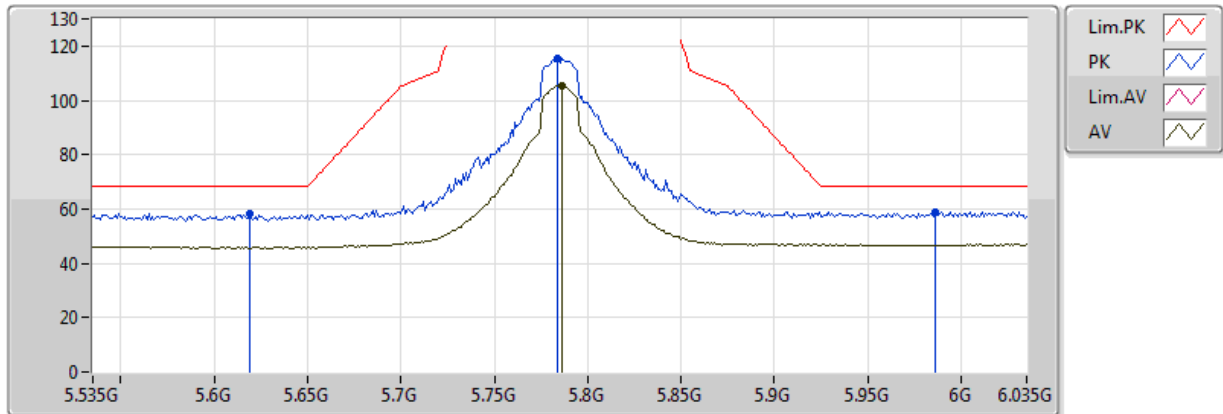
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.48952G	66.93	74.00	-7.07	15.19	3	Horizontal	272	1.50	-
AV	11.48952G	52.97	54.00	-1.03	15.19	3	Horizontal	272	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

03/04/2018



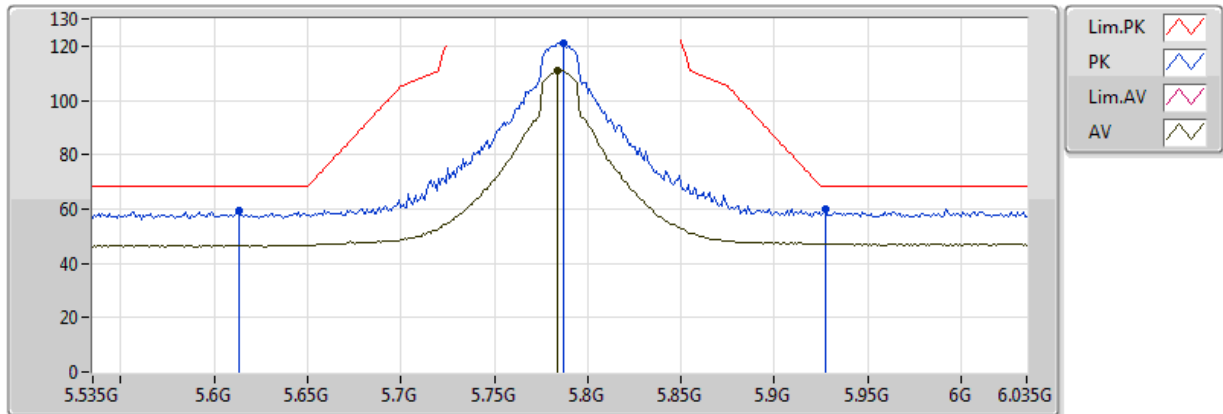
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.619G	58.45	68.20	-9.75	6.35	3	Vertical	28	1.88	-
PK	5.784G	115.48	Inf	-Inf	7.03	3	Vertical	28	1.88	-
AV	5.786G	105.50	Inf	-Inf	7.04	3	Vertical	28	1.88	-
PK	5.986G	59.06	68.20	-9.14	7.45	3	Vertical	28	1.88	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

03/04/2018



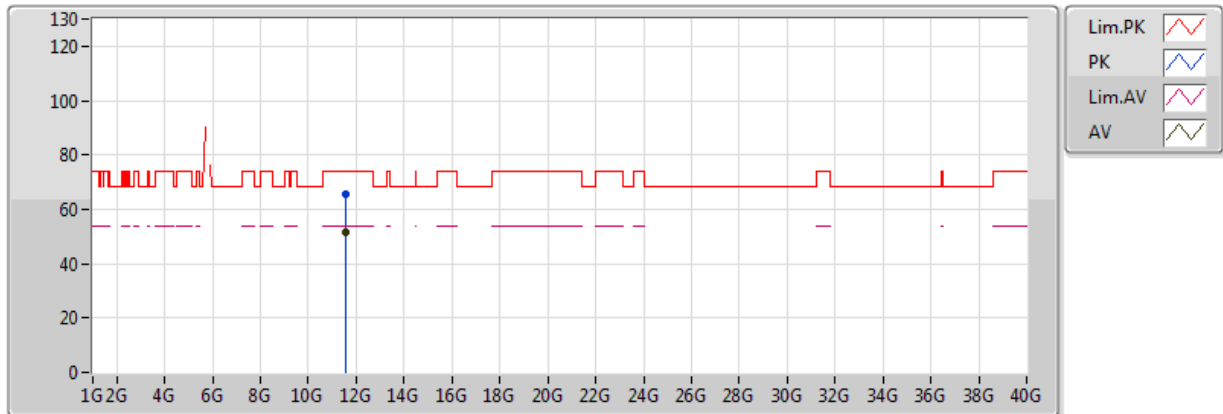
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.613G	59.49	68.20	-8.71	6.33	3	Horizontal	338	1.72	-
PK	5.787G	120.94	Inf	-Inf	7.05	3	Horizontal	338	1.72	-
AV	5.784G	111.11	Inf	-Inf	7.03	3	Horizontal	338	1.72	-
PK	5.927G	60.12	68.20	-8.08	7.34	3	Horizontal	338	1.72	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

18/04/2018



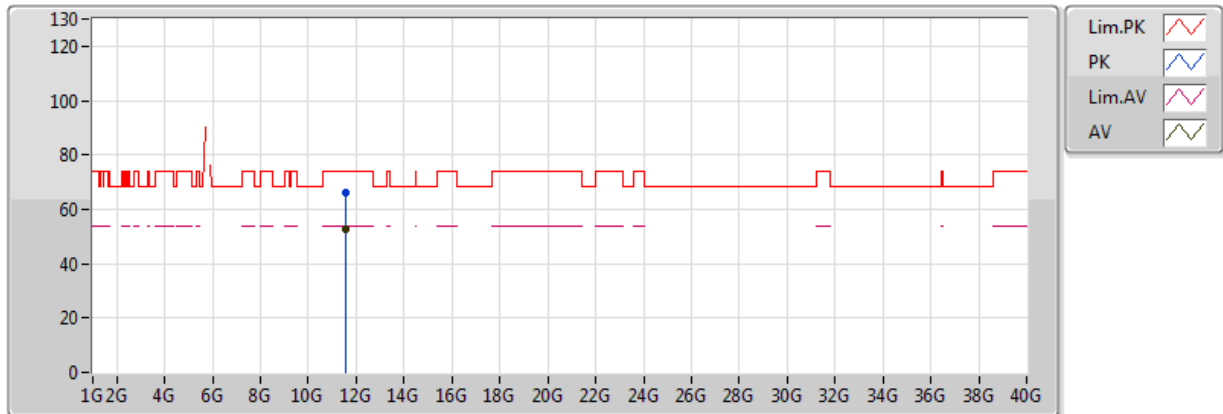
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.5679G	65.52	74.00	-8.48	15.10	3	Vertical	342	1.74	-
AV	11.57168G	51.64	54.00	-2.36	15.10	3	Vertical	342	1.74	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

18/04/2018



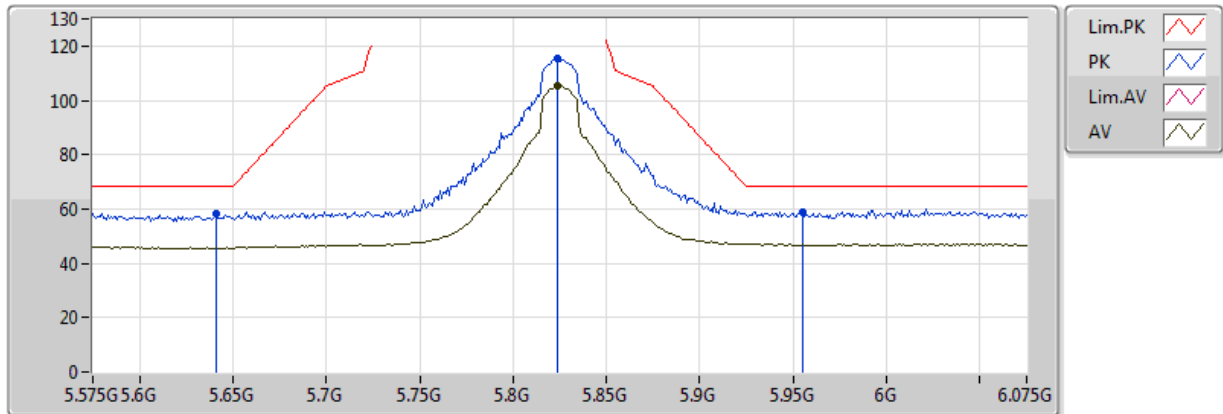
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.57432G	66.22	74.00	-7.78	15.10	3	Horizontal	264	1.49	-
AV	11.56982G	52.40	54.00	-1.60	15.10	3	Horizontal	264	1.49	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

04/04/2018



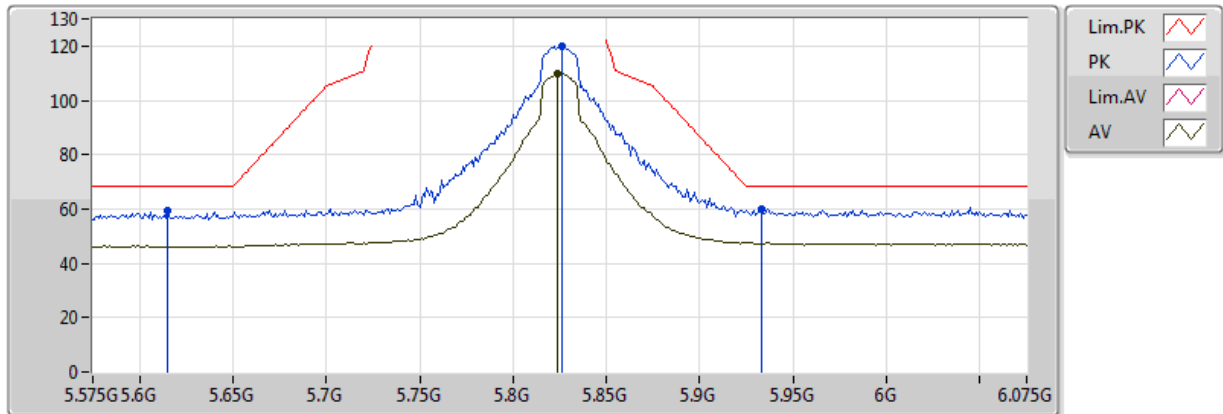
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.641G	58.33	68.20	-9.87	6.43	3	Vertical	321	1.76	-
PK	5.824G	115.16	Inf	-Inf	7.15	3	Vertical	321	1.76	-
AV	5.824G	105.53	Inf	-Inf	7.15	3	Vertical	321	1.76	-
PK	5.955G	58.88	68.20	-9.32	7.39	3	Vertical	321	1.76	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

04/04/2018



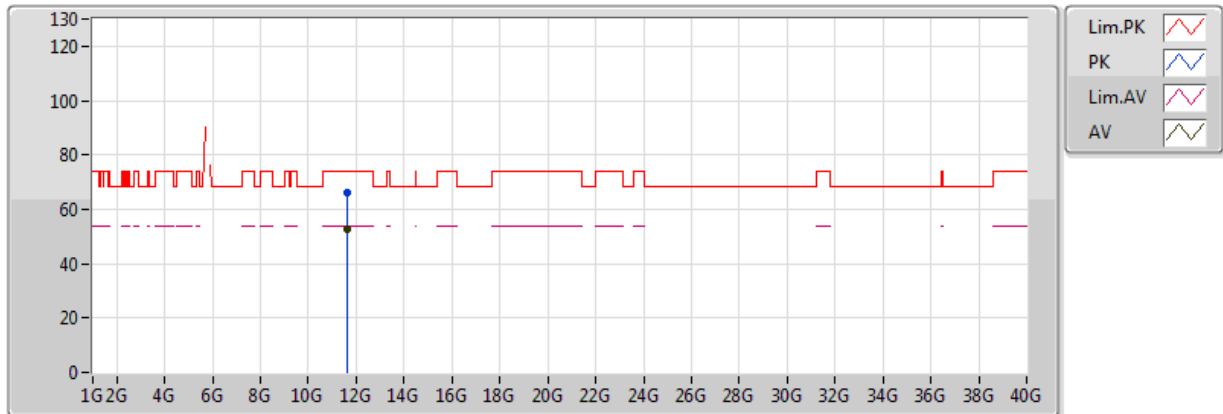
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.615G	59.44	68.20	-8.76	6.33	3	Horizontal	351	1.59	-
PK	5.826G	119.88	Inf	-Inf	7.15	3	Horizontal	351	1.59	-
AV	5.824G	110.01	Inf	-Inf	7.15	3	Horizontal	351	1.59	-
PK	5.933G	59.87	68.20	-8.33	7.35	3	Horizontal	351	1.59	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

18/04/2018



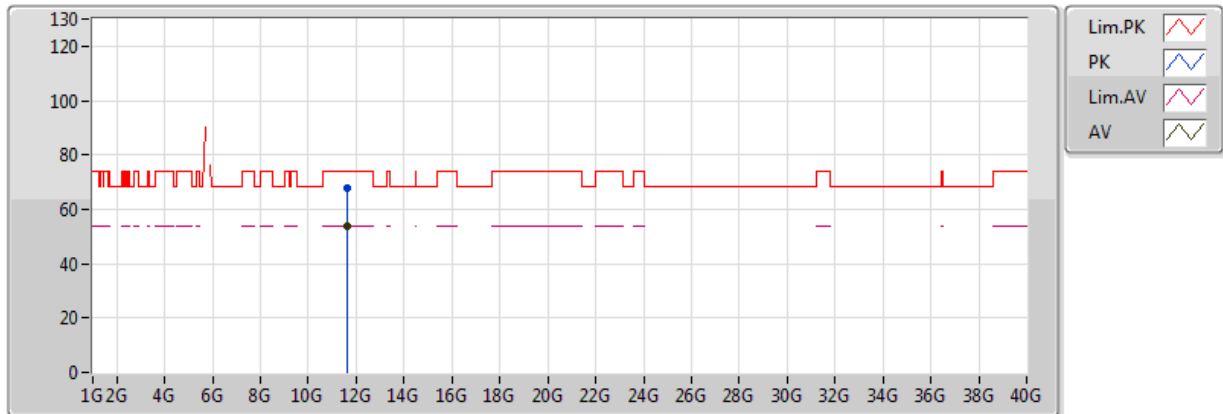
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.65102G	66.08	74.00	-7.92	15.01	3	Vertical	333	2.99	-
AV	11.65096G	52.54	54.00	-1.46	15.01	3	Vertical	333	2.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

18/04/2018



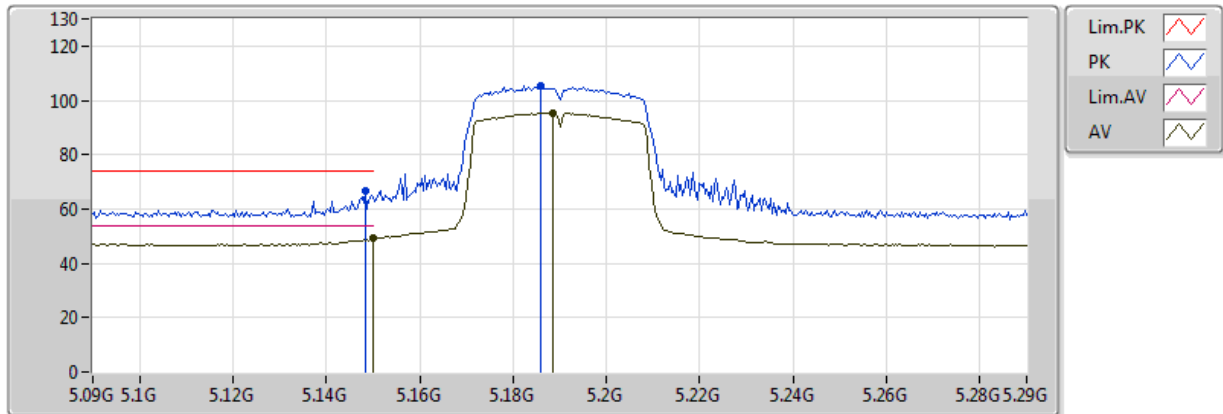
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.64604G	67.53	74.00	-6.47	15.02	3	Horizontal	307	1.50	-
AV	11.65372G	53.89	54.00	-0.11	15.01	3	Horizontal	307	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

17/04/2018



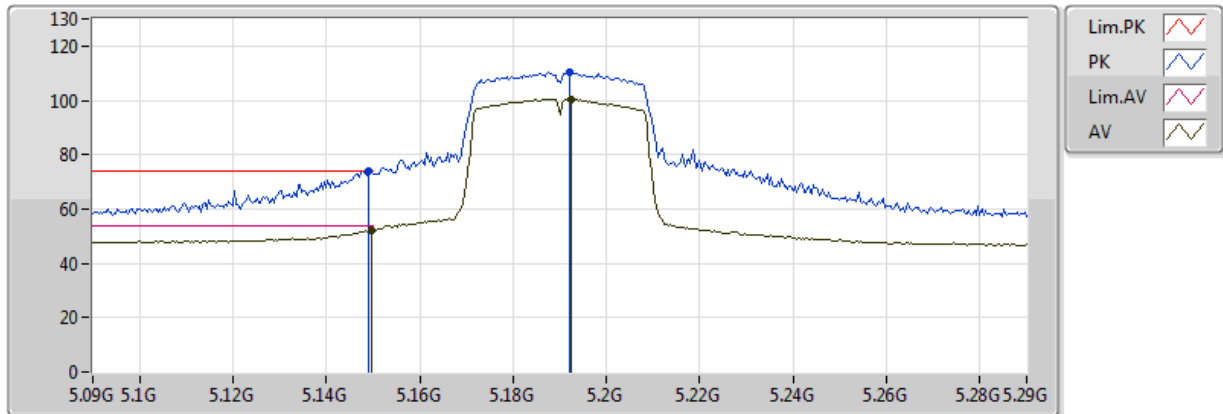
EUT Y_2TX
Setting 24
06-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1484G	66.61	74.00	-7.39	7.42	3	Vertical	262	1.82	-
AV	5.149995G	49.34	54.00	-4.66	7.42	3	Vertical	262	1.82	-
PK	5.186G	105.56	Inf	-Inf	7.49	3	Vertical	262	1.82	-
AV	5.1884G	95.29	Inf	-Inf	7.49	3	Vertical	262	1.82	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

17/04/2018



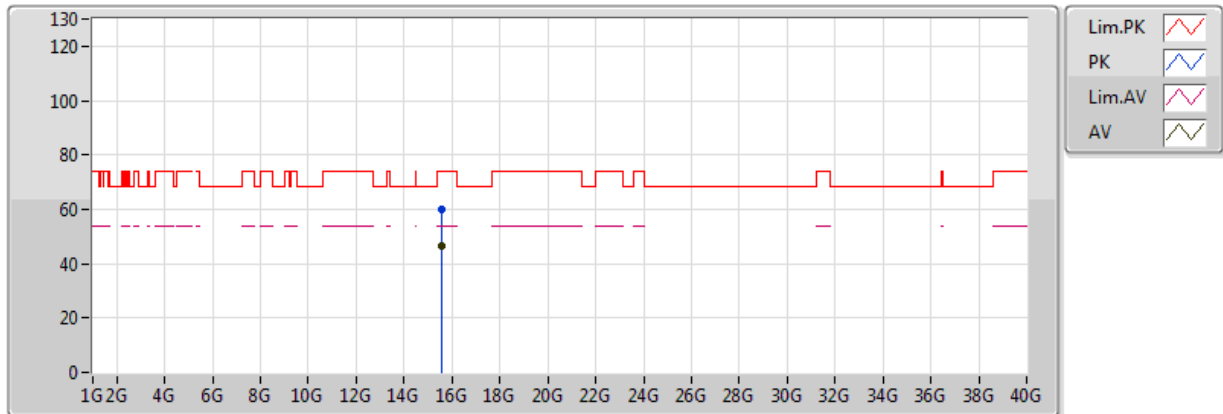
EUT Y_2TX
Setting 24
06-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1492G	73.81	74.00	-0.19	7.43	3	Horizontal	357	2.59	-
AV	5.1496G	52.10	54.00	-1.90	7.43	3	Horizontal	357	2.59	-
PK	5.192G	110.55	Inf	-Inf	7.50	3	Horizontal	357	2.59	-
AV	5.1924G	100.52	Inf	-Inf	7.50	3	Horizontal	357	2.59	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

18/04/2018



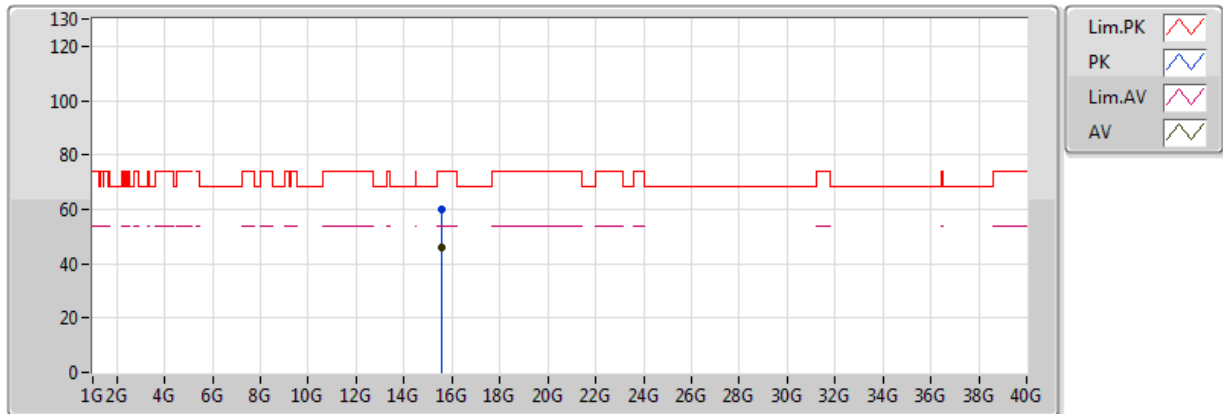
EUT Y_2TX
Setting 24
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.55548G	60.07	74.00	-13.93	16.28	3	Vertical	10	2.95	-
AV	15.55722G	46.28	54.00	-7.72	16.27	3	Vertical	10	2.95	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

18/04/2018



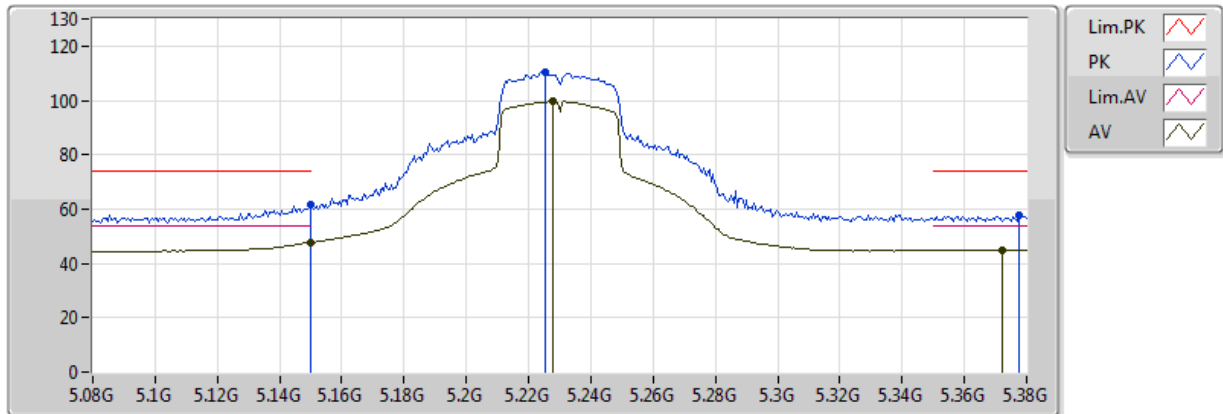
EUT Y_2TX
Setting 24
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.58236G	60.13	74.00	-13.87	16.20	3	Horizontal	17	1.50	-
AV	15.56172G	46.21	54.00	-7.79	16.26	3	Horizontal	17	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

04/04/2018



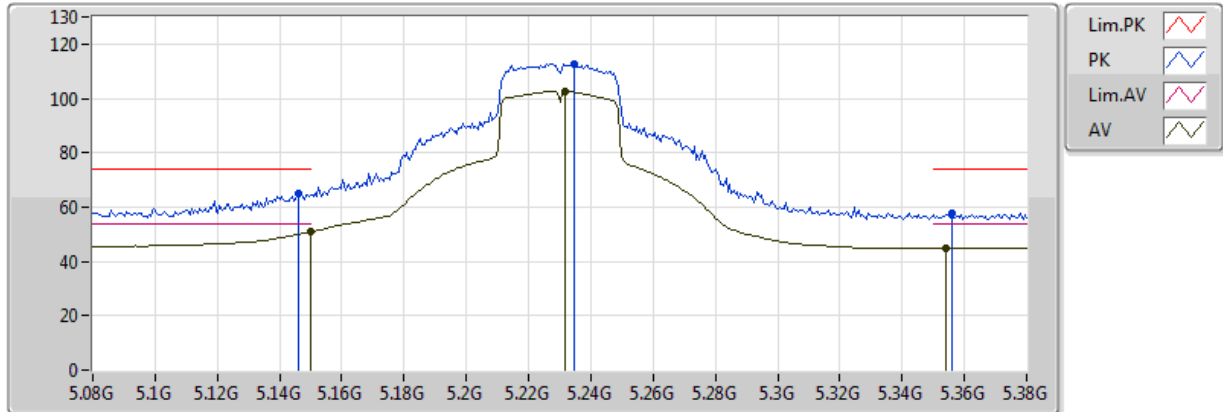
EUT Y_2TX
Setting 29
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.149995G	61.70	74.00	-12.30	4.90	3	Vertical	83	2.66	-
AV	5.149995G	47.70	54.00	-6.30	4.90	3	Vertical	83	2.66	-
PK	5.2252G	110.36	Inf	-Inf	5.07	3	Vertical	83	2.66	-
AV	5.2276G	99.72	Inf	-Inf	5.08	3	Vertical	83	2.66	-
PK	5.3776G	57.58	74.00	-16.42	5.70	3	Vertical	83	2.66	-
AV	5.3722G	44.90	54.00	-9.10	5.69	3	Vertical	83	2.66	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

04/04/2018



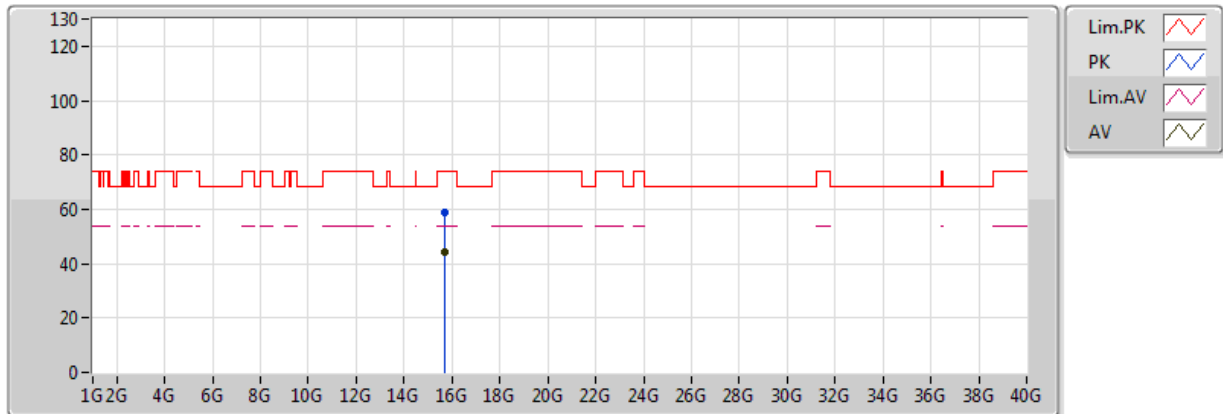
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Setting 29
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.146G	65.09	74.00	-8.91	4.89	3	Horizontal	1	1.63	-
AV	5.149995G	50.98	54.00	-3.02	4.90	3	Horizontal	1	1.63	-
PK	5.2348G	112.78	Inf	-Inf	5.12	3	Horizontal	1	1.63	-
AV	5.2318G	102.68	Inf	-Inf	5.10	3	Horizontal	1	1.63	-
PK	5.356G	57.62	74.00	-16.38	5.62	3	Horizontal	1	1.63	-
AV	5.3542G	45.09	54.00	-8.91	5.62	3	Horizontal	1	1.63	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

18/04/2018



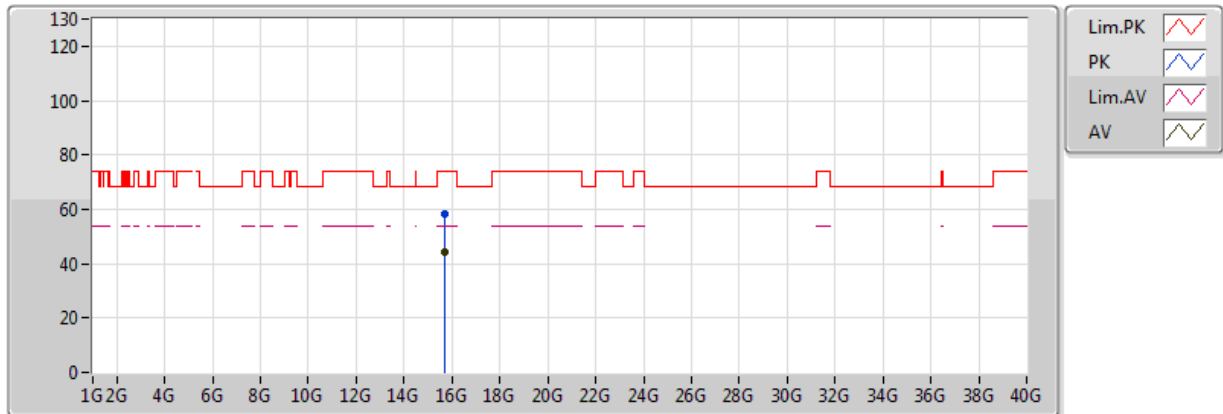
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Setting 29
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.70014G	58.80	74.00	-15.20	15.87	3	Vertical	165	1.50	-
AV	15.6804G	44.39	54.00	-9.61	15.93	3	Vertical	165	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

18/04/2018



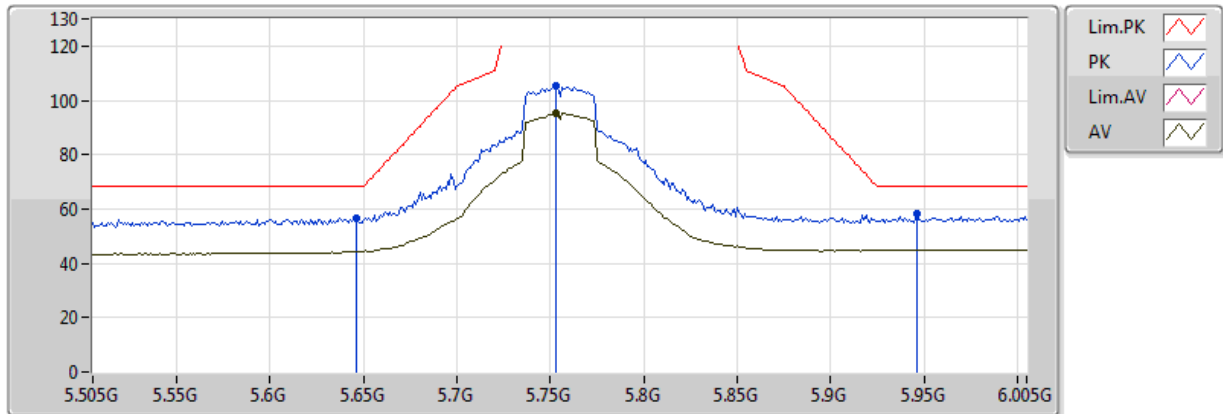
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Setting 29
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.69612G	58.24	74.00	-15.76	15.88	3	Horizontal	90	2.55	-
AV	15.68196G	44.39	54.00	-9.61	15.92	3	Horizontal	90	2.55	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

17/04/2018



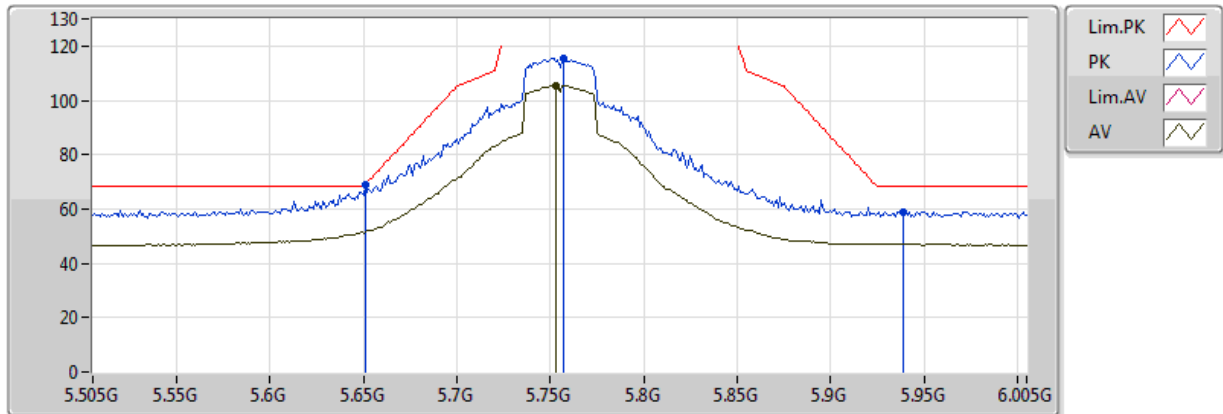
EUT Y_2TX
Setting 3A
02-L-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.646G	56.40	68.20	-11.80	6.46	3	Vertical	24	1.85	-
PK	5.753G	105.18	Inf	-Inf	6.90	3	Vertical	24	1.85	-
AV	5.753G	95.13	Inf	-Inf	6.90	3	Vertical	24	1.85	-
PK	5.946G	58.29	68.20	-9.91	7.38	3	Vertical	24	1.85	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

17/04/2018



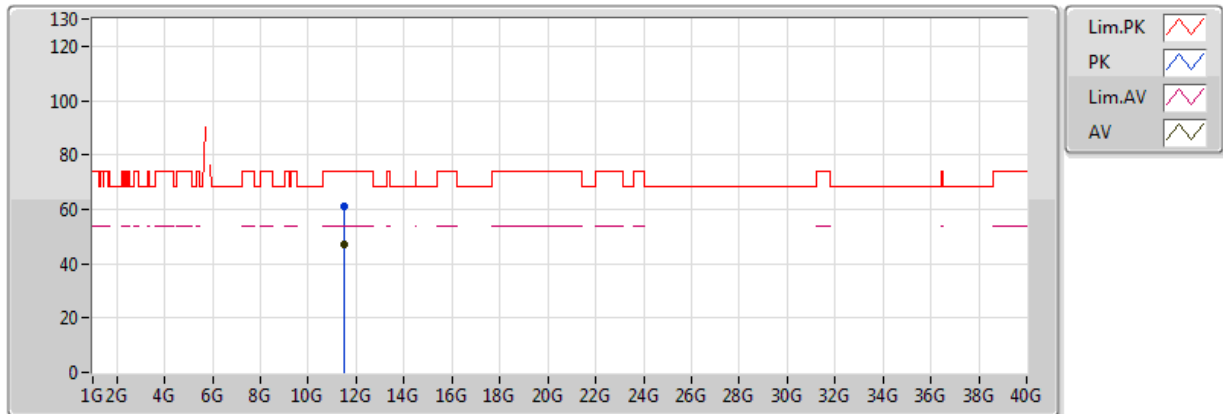
EUT Y_2TX
Setting 3A
02-L-3-10
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.753G	105.55	Inf	-Inf	9.11	3	Horizontal	338	1.42	-
PK	5.651G	68.85	68.94	-0.09	9.03	3	Horizontal	338	1.42	-
PK	5.757G	115.70	Inf	-Inf	9.12	3	Horizontal	338	1.42	-
PK	5.939G	59.11	68.20	-9.09	9.21	3	Horizontal	338	1.42	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

18/04/2018



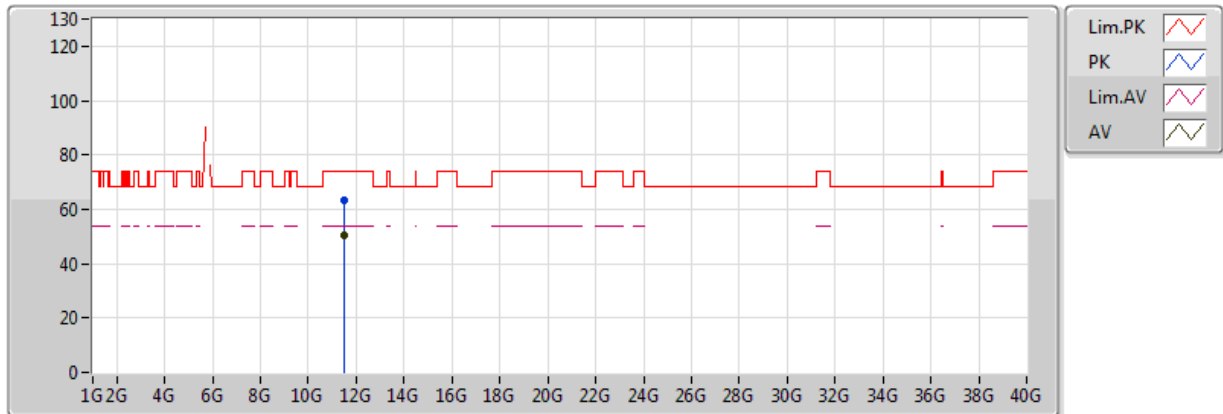
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.50916G	60.89	74.00	-13.11	15.17	3	Vertical	27	1.50	-
AV	11.51036G	47.16	54.00	-6.84	15.16	3	Vertical	27	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

18/04/2018



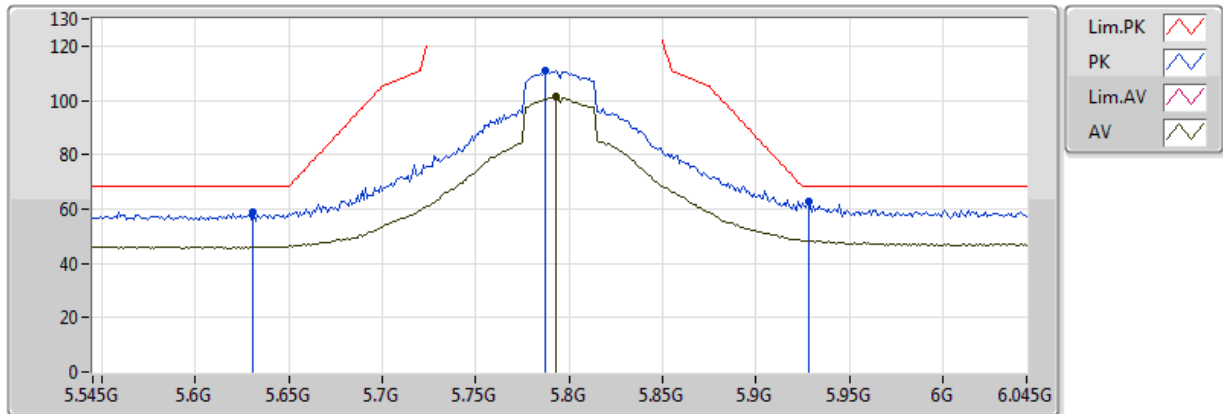
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.5109G	63.25	74.00	-10.75	15.16	3	Horizontal	288	1.50	-
AV	11.5103G	50.34	54.00	-3.66	15.16	3	Horizontal	288	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

04/04/2018



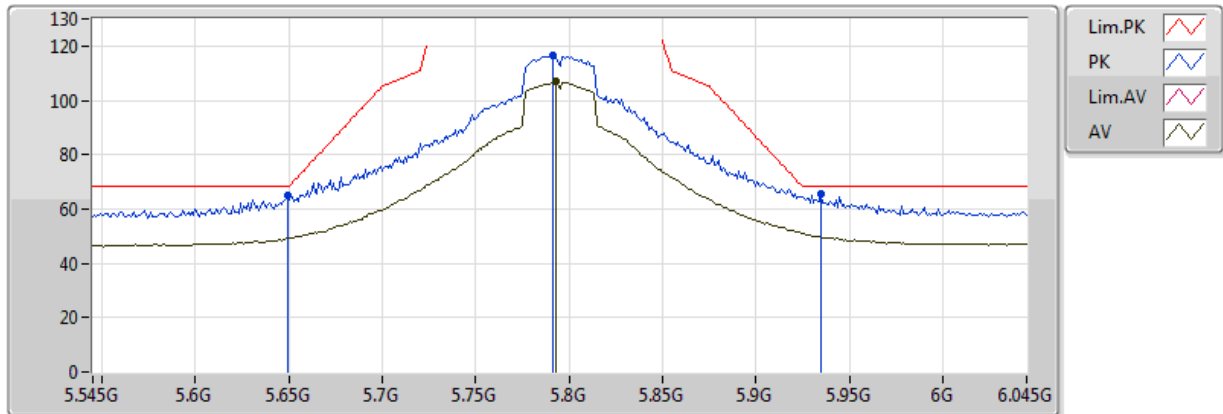
EUT Y_2TX
Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.631G	58.78	68.20	-9.42	6.40	3	Vertical	322	1.57	-
PK	5.787G	110.76	Inf	-Inf	7.05	3	Vertical	322	1.57	-
AV	5.793G	101.15	Inf	-Inf	7.07	3	Vertical	322	1.57	-
PK	5.928G	62.50	68.20	-5.70	7.34	3	Vertical	322	1.57	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

04/04/2018



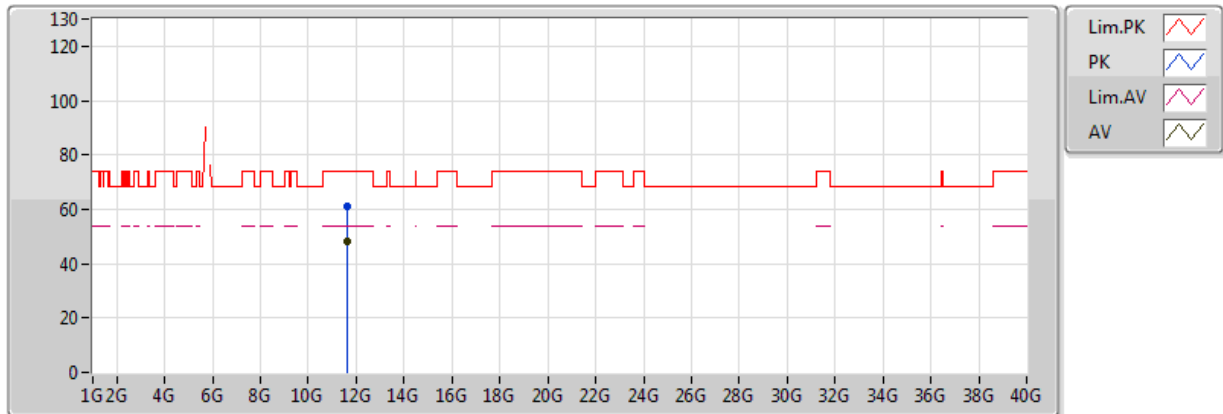
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Setting 3A
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.649G	65.05	68.20	-3.15	6.47	3	Horizontal	349	1.77	-
PK	5.791G	116.31	Inf	-Inf	7.06	3	Horizontal	349	1.77	-
AV	5.793G	106.75	Inf	-Inf	7.07	3	Horizontal	349	1.77	-
PK	5.935G	65.35	68.20	-2.85	7.36	3	Horizontal	349	1.77	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

18/04/2018



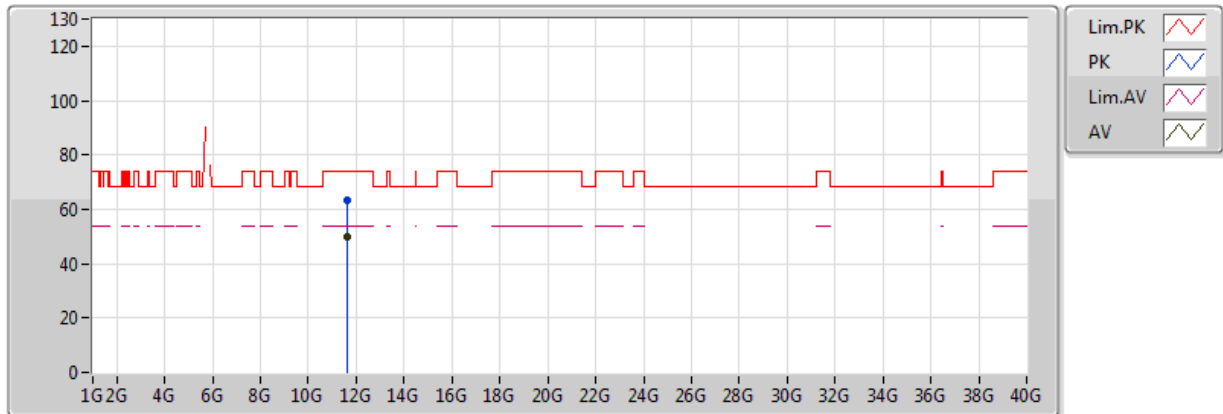
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Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.59408G	60.97	74.00	-13.03	15.08	3	Vertical	338	1.68	-
AV	11.59306G	47.91	54.00	-6.09	15.08	3	Vertical	338	1.68	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

18/04/2018



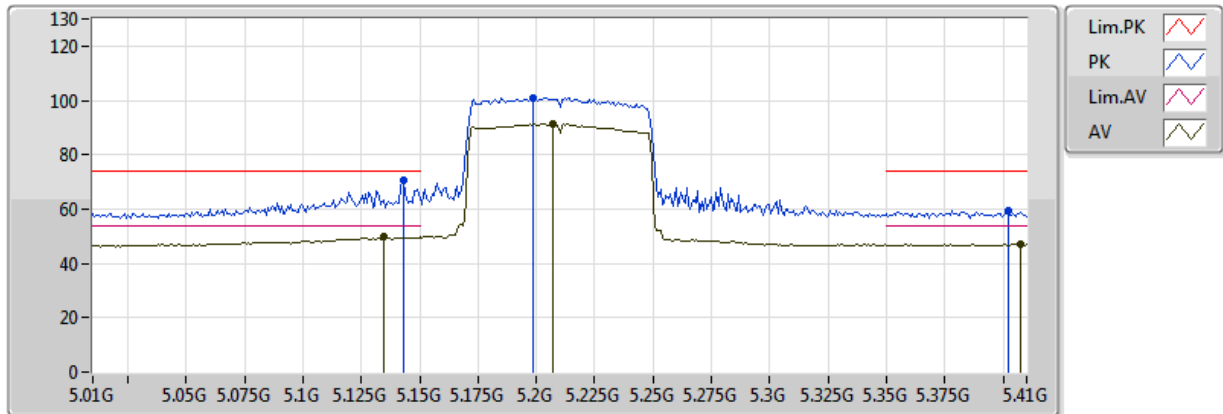
EUT Y_2TX
Setting 3A
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.59648G	63.47	74.00	-10.53	15.07	3	Horizontal	294	2.37	-
AV	11.59522G	49.63	54.00	-4.37	15.07	3	Horizontal	294	2.37	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

19/04/2018



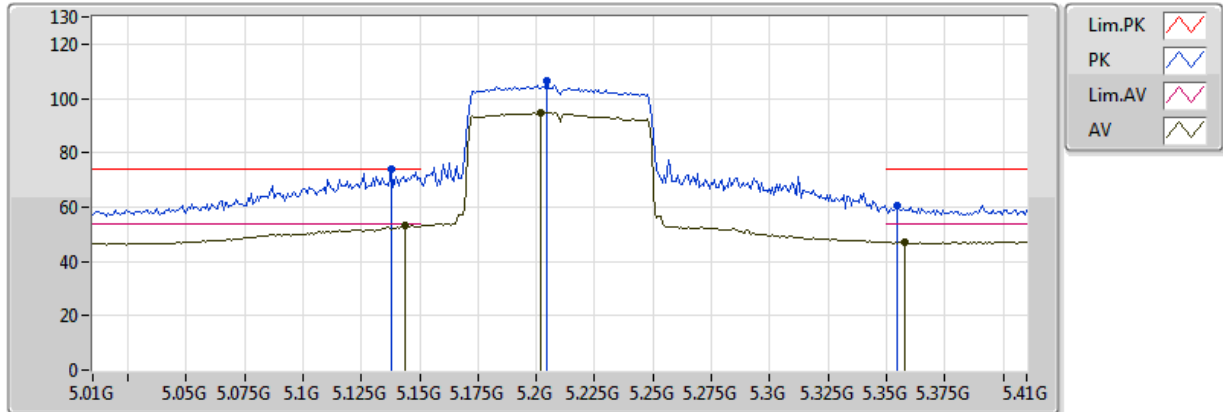
EUT Y_2TX
Setting 22
06-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.1428G	70.34	74.00	-3.66	7.42	3	Vertical	262	1.92	-
AV	5.1348G	49.69	54.00	-4.31	7.40	3	Vertical	262	1.92	-
PK	5.1988G	101.08	Inf	-Inf	7.51	3	Vertical	262	1.92	-
AV	5.2068G	91.27	Inf	-Inf	7.52	3	Vertical	262	1.92	-
PK	5.402G	59.42	74.00	-14.58	7.80	3	Vertical	262	1.92	-
AV	5.4076G	47.03	54.00	-6.97	7.80	3	Vertical	262	1.92	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

19/04/2018



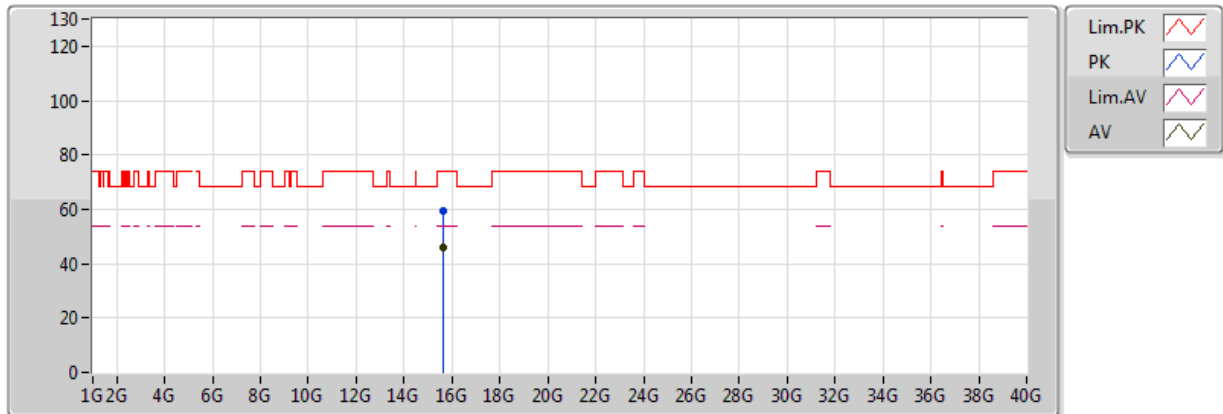
EUT Y_2TX
Setting 22
06-J-6-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.138G	73.92	74.00	-0.08	7.41	3	Horizontal	360	1.50	-
AV	5.1436G	53.20	54.00	-0.80	7.42	3	Horizontal	360	1.50	-
PK	5.2044G	106.25	Inf	-Inf	7.52	3	Horizontal	360	1.50	-
AV	5.202G	94.56	Inf	-Inf	7.51	3	Horizontal	360	1.50	-
PK	5.3548G	60.51	74.00	-13.49	7.74	3	Horizontal	360	1.50	-
AV	5.358G	47.17	54.00	-6.83	7.74	3	Horizontal	360	1.50	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

18/04/2018



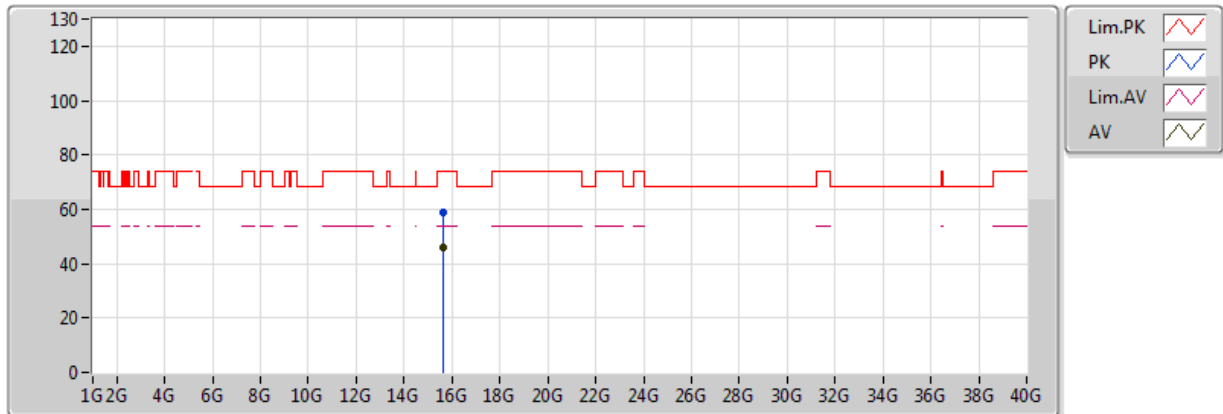
EUT Y_2TX
Setting 22
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.63042G	59.28	74.00	-14.72	16.07	3	Vertical	171	1.83	-
AV	15.61716G	45.89	54.00	-8.11	16.10	3	Vertical	171	1.83	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

18/04/2018



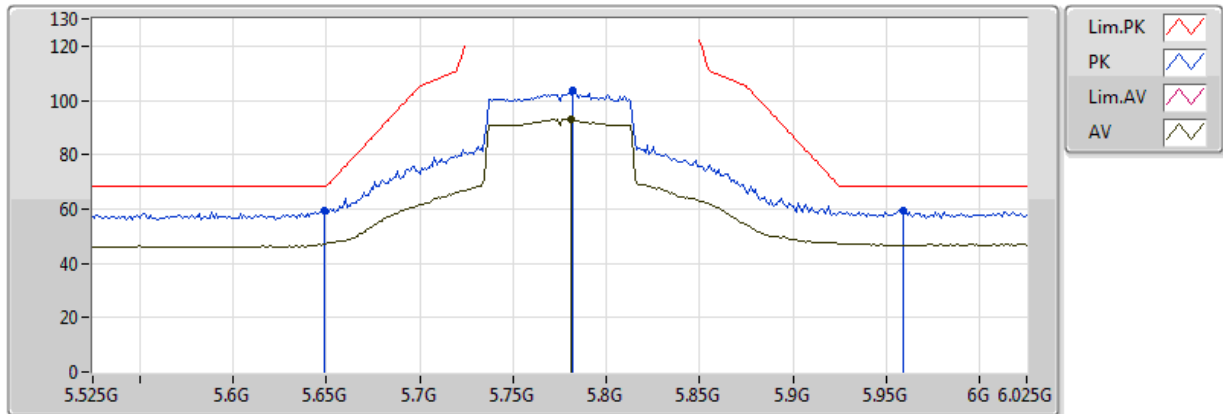
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Setting 22
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	15.6192G	58.71	74.00	-15.29	16.10	3	Horizontal	91	2.10	-
AV	15.615G	45.99	54.00	-8.01	16.11	3	Horizontal	91	2.10	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

04/04/2018



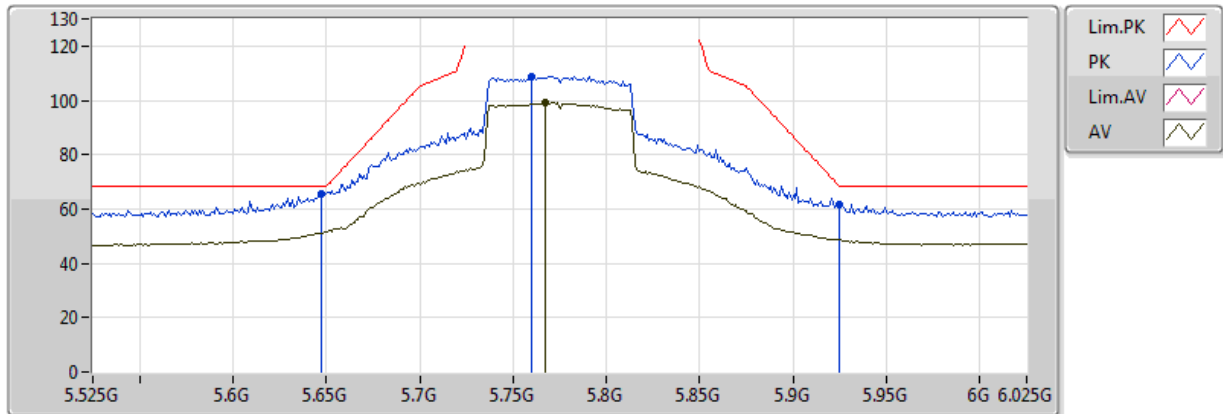
EUT Y_2TX
Setting 27
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.649G	59.47	68.20	-8.73	6.47	3	Vertical	322	1.48	-
PK	5.782G	103.74	Inf	-Inf	7.02	3	Vertical	322	1.48	-
AV	5.781G	93.09	Inf	-Inf	7.02	3	Vertical	322	1.48	-
PK	5.959G	59.56	68.20	-8.64	7.41	3	Vertical	322	1.48	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

04/04/2018



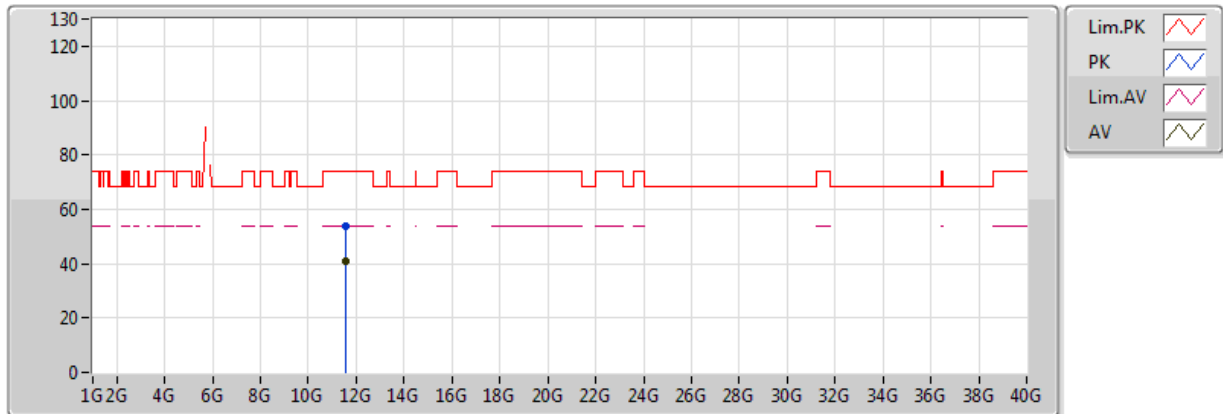
EUT Y_2TX
Setting 27
01-L-2-10
FSP(100080)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	5.647G	65.48	68.20	-2.72	6.46	3	Horizontal	350	1.67	-
PK	5.76G	108.95	Inf	-Inf	6.93	3	Horizontal	350	1.67	-
AV	5.767G	99.12	Inf	-Inf	6.96	3	Horizontal	350	1.67	-
PK	5.924994G	61.86	68.20	-6.34	7.34	3	Horizontal	350	1.67	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

18/04/2018



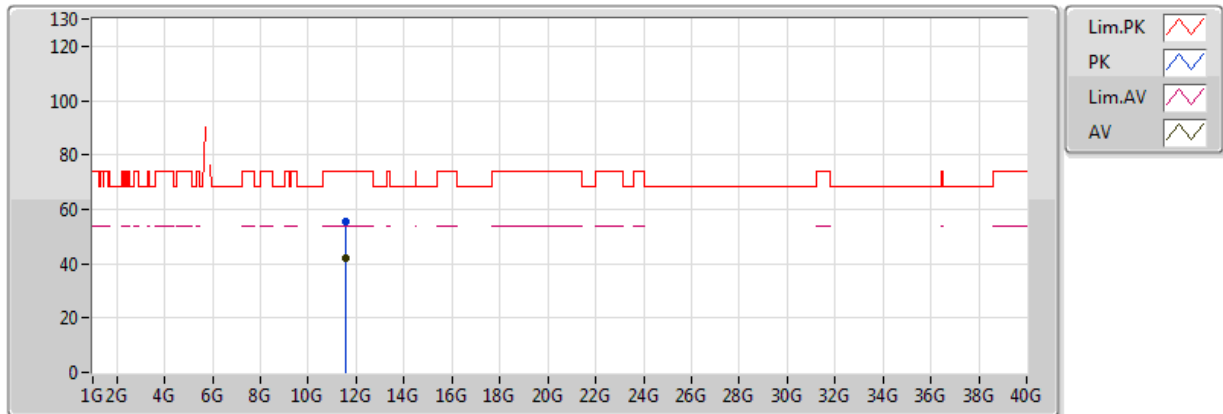
EUT Y_2TX
Setting 27
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.5458G	53.95	74.00	-20.05	15.13	3	Vertical	304	1.33	-
AV	11.5383G	40.78	54.00	-13.22	15.14	3	Vertical	304	1.33	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

18/04/2018



EUT Y_2TX
Setting 27
02-L-3
FSP(100304)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.54988G	55.69	74.00	-18.31	15.12	3	Horizontal	292	1.47	-
AV	11.54592G	42.24	54.00	-11.76	15.13	3	Horizontal	292	1.47	-