



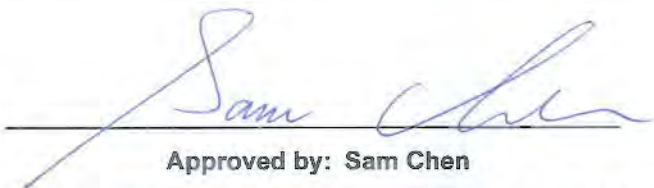
FCC RADIO TEST REPORT

FCC ID : HEDML16035
Equipment : MetroLin Outdoor 60GHz PTP + 5GHz + 2.4GHz
Brand Name : Ignitenet
Model Name : ML1-60-35/ML1-60-19
Applicant : Accton Technology Corp
No. 1, Creation Rd. III, Science-based Industrial
Park Hsin Chu 30077, Taiwan
Manufacturer (1) : Joy Technology (Shen Zhen) Co. Ltd
HengKeng Ind., Shangpai, Shangwu, Aiqun Rd.,
Shiyan Town, Shenzhen 518108 China
Manufacturer (2) : Accton Technology Corp
No. 1, Creation Rd. III, Science-based Industrial
Park Hsin Chu 30077, Taiwan
Standard : 47 CFR FCC Part 15.407

The product was received on Apr. 12, 2018, and testing was started from May 02, 2018 and completed on Jun. 22, 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 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 27
Issued Date : Jul. 02, 2018
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	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: Wendy Pan



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 1:

- ♦ 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.

Note 2: This device contains transmitter 60GHz module FCC ID: HED-ML60MDSB

Note 3: WLAN and 60G work at the same time.

1.1.2 Table for Multiple Listing

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

Brand Name	Model Name	EUT No.	WLAN 2.4GHz Ant. Model Name	WLAN 5GHz Ant. Model Name	60GHz Ant. Model Name
Ignitenet	ML1-60-35	EUT 1	OS-242509-NM	120G00000174X	123400001485A
	ML1-60-19	EUT 2	OS-242509-NM	120G00000175X	123400001486A

From the above models, model: ML1-60-35 was selected as representative model for the test and its data was recorded in this report.

1.1.3 Antenna Information

For WLAN Function:

Set	Brand	P/N (Model Name)	Antenna Type	Connector	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
					2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	FT-RF	OS-242509-NM	Dipole	N-Male	9	-	1.18	-	7.82	-
2	Accton	120G00000174X	Dish Ant.	MMCX	-	20	-	-	-	20
3	Accton	120G00000175X	Dish Ant.	MMCX	-	13.4	-	-	-	13.4

Note: EUT 1 go with Set 1 and Set 2 antennas.

EUT 2 go with Set 1 and Set 3 antennas.

Because 5GHz Set 2 and Set 3 are the same type antennas, only the higher gain antenna "Set 2" was tested.

For 2.4GHz function:

For IEEE 802.11b/g/n mode (2TX/2RX):

Port 1 and Port 2 connect to Set 1.

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 connect to Set 2 or Set 3.

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 60GHz Function:

Ant.	Brand	Part Number	Antenna Type	Connector	Gain (dBi)
1	Accton	123400001485A	Dish Ant.	N/A	42
2	Accton	123400001486A	Dish Ant.	N/A	38

Note: EUT 1 go with antenna 1.

EUT 2 go with antenna 2.

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

**1.1.4 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.962	0.168	2.06m	1k
802.11ac VHT20	0.983	0.074	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.965	0.155	2.437m	1k
802.11ac VHT80	0.928	0.325	1.145m	1k

1.1.5 EUT Operational Condition

EUT Power Type	From PoE or DC 48V			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☐	Indoor P2M
	☒	Fixed P2P	☐	Client
Test Software Version	QCARCT(V3.0.187.0)			



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, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	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	22°C / 54%	May 05, 2018 ~ May 09, 2018
Radiated	03CH01-CB	Mason Chen, Stim Sung, Lance Wu	22°C / 54%	May 04, 2018 ~ Jun. 20, 2018
AC Conduction	CO01-CB	Max Lin	25°C / 55%	May 02, 2018 ~ Jun. 22, 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	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	4
5200MHz	4
5240MHz	4
5745MHz	11.5
5785MHz	11.5
5825MHz	12.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	4.5
5200MHz	5
5240MHz	5
5745MHz	11.5
5785MHz	11.5
5825MHz	12.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	6.5
5230MHz	7
5755MHz	11.5
5795MHz	12
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	9
5775MHz	11

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 1 - WLAN 2.4GHz - AC mode
2	EUT 1 - WLAN 5GHz - AC mode
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 - WLAN 2.4GHz - DC mode
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
Test Mode	EUT 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	EUT 1 - WLAN 2.4GHz - AC mode
2	EUT 1 - WLAN 5GHz - AC mode
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT WLAN 2.4GHz - DC mode
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	EUT 1 - CTX



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1 - WLAN 2.4GHz + WLAN 5GHz + 60GHz
Refer to Sporton Test Report No.: FA7D2234-05 for Co-location RF Exposure Evaluation.	

- Note: 1. The EUT can only be used at Y axis position.
2. The defines from manufacturer, "USB port" without any function, and it was performed test at the load.
3. All the specification of test configurations and test modes were based on customer's request.
4. The PoE is for measurement only, would not be marketed, and its information as below:

Equipment	Brand	Model	FCC ID
PoE	GME	GME241DA-480050G	N/A

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

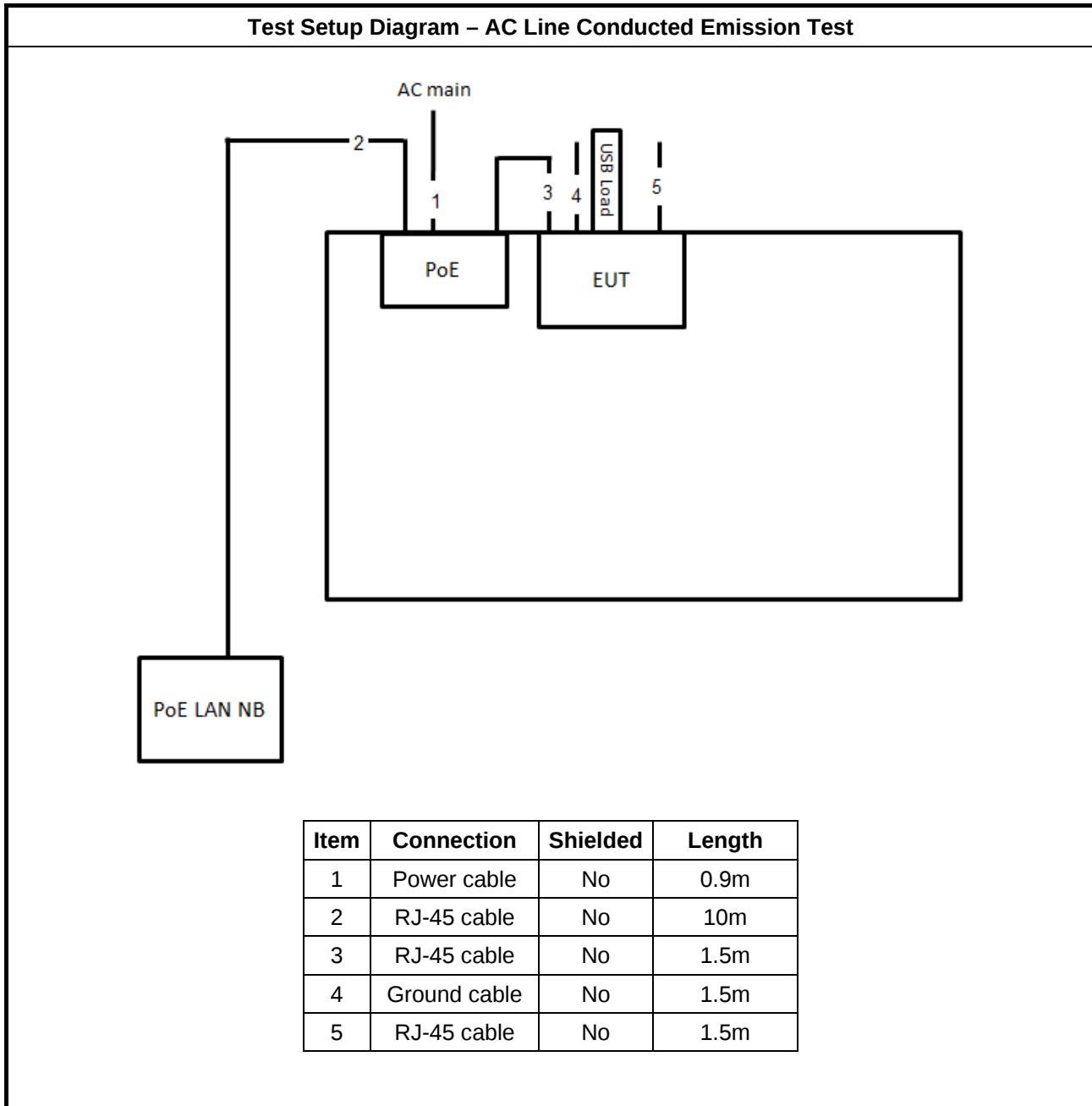
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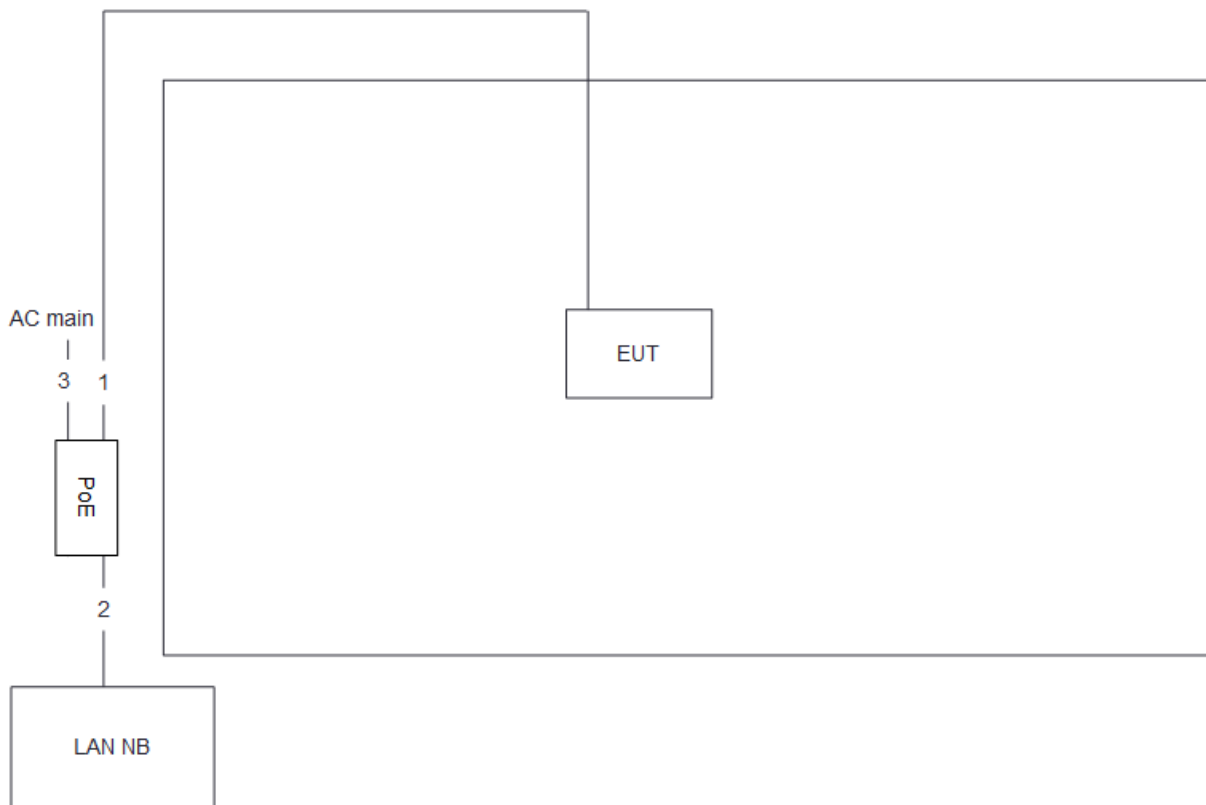
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	N/A
2	Flash Disk 3.0	Transcend	JetFlash-700	N/A
3	PoE	GME	GME241DA-480050G	N/A

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A
2	PoE	GME	GME241DA-480050G	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	0.9m



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.

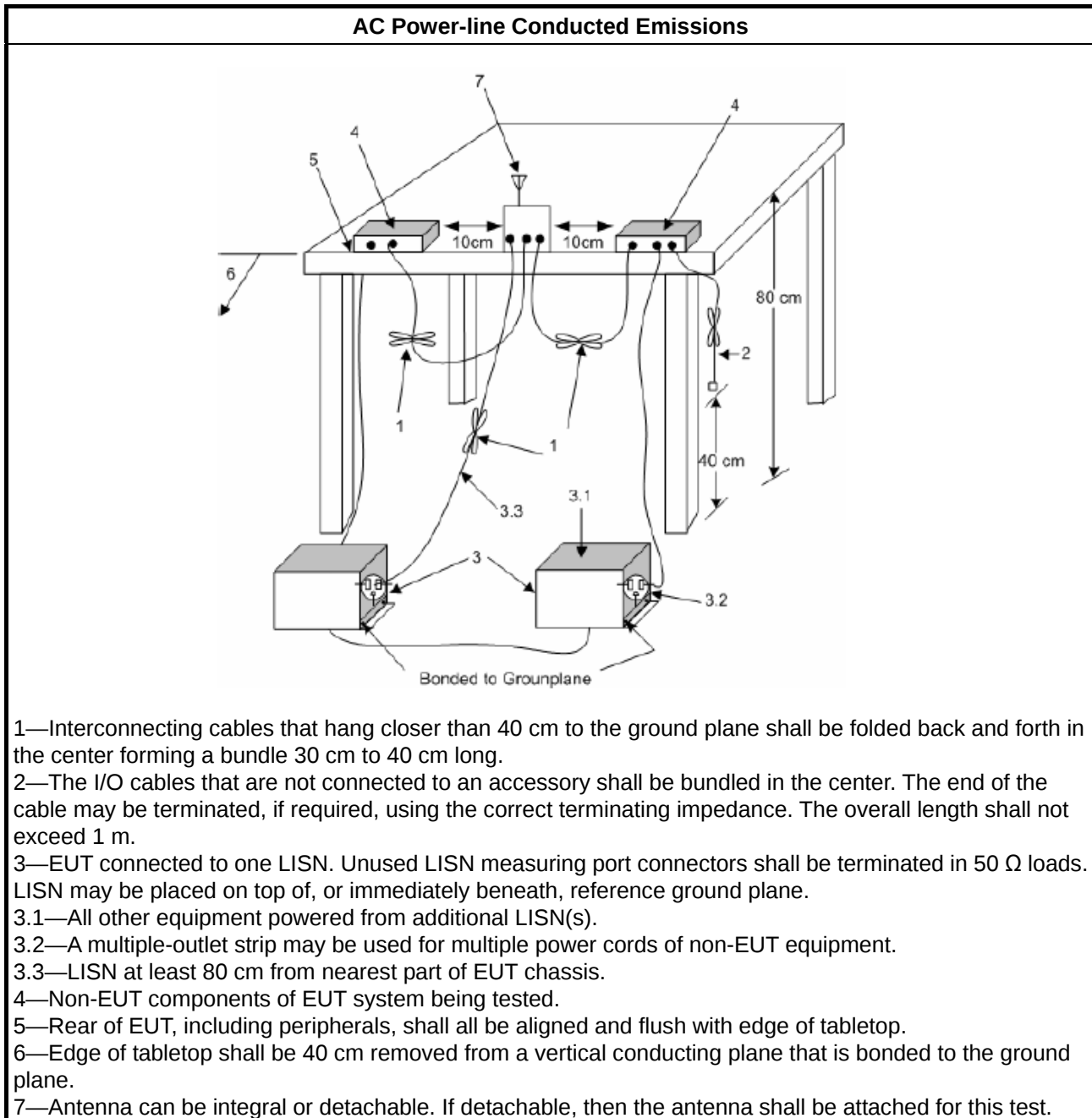
3.1.2 Measuring Instruments

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 $\geq 500\text{kHz}$.

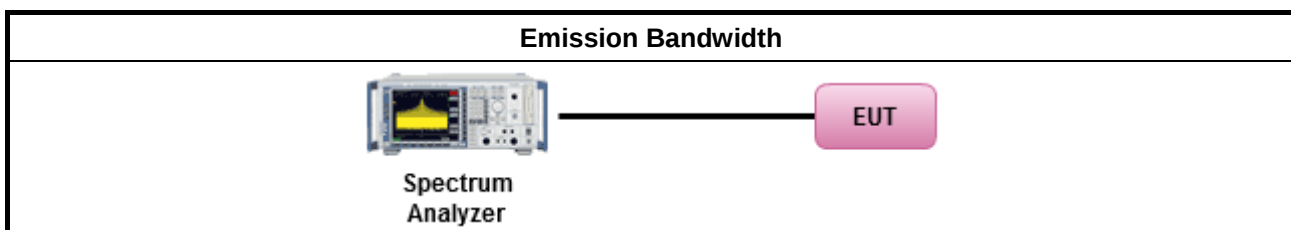
3.2.2 Measuring Instruments

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.	

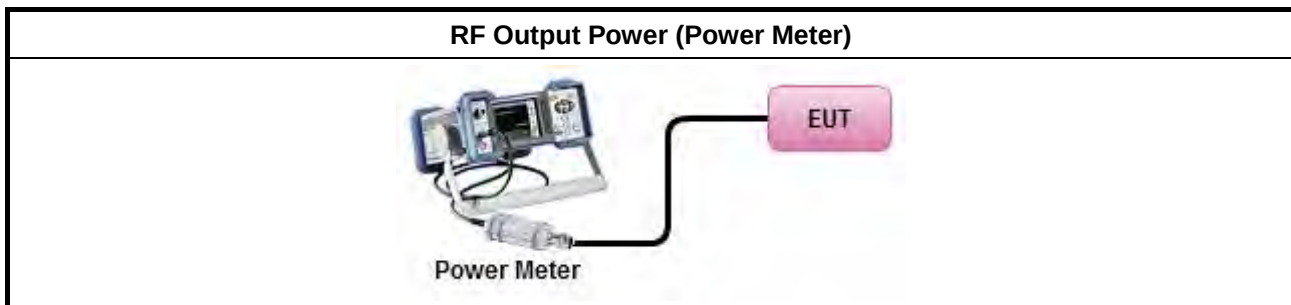
3.3.2 Measuring Instruments

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.	

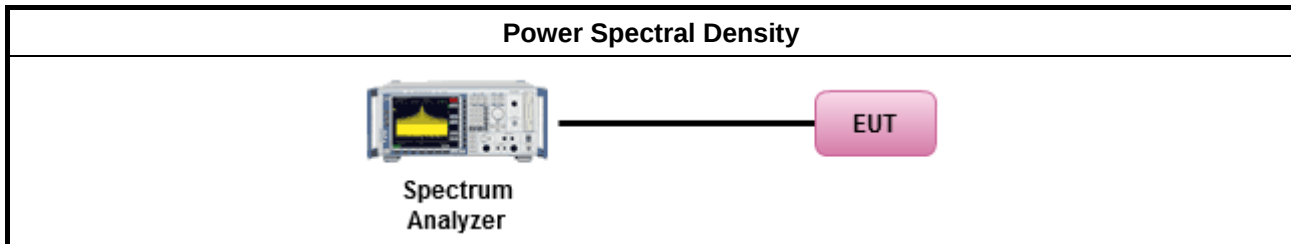
3.4.2 Measuring Instruments

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).

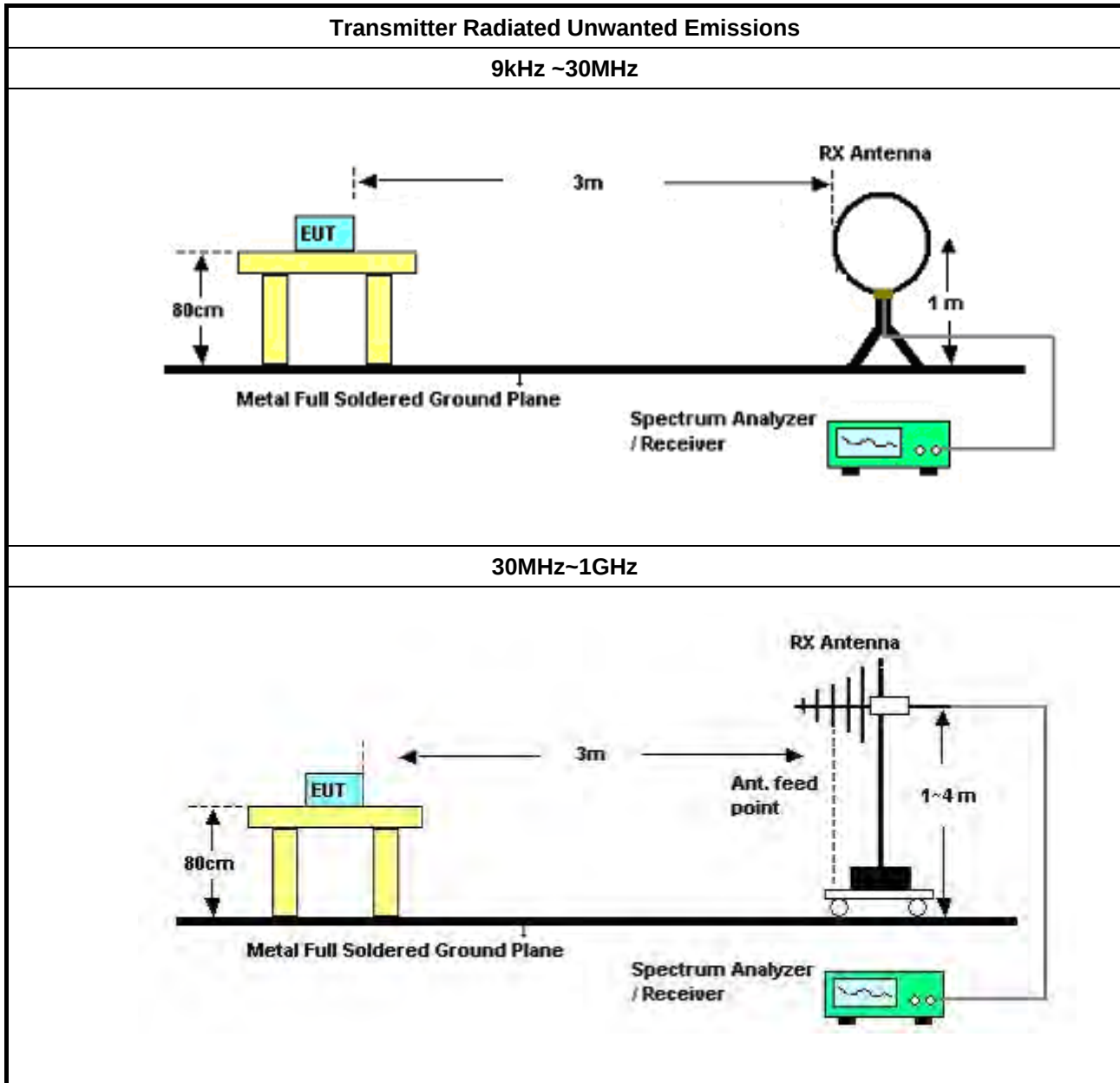
3.5.2 Measuring Instruments

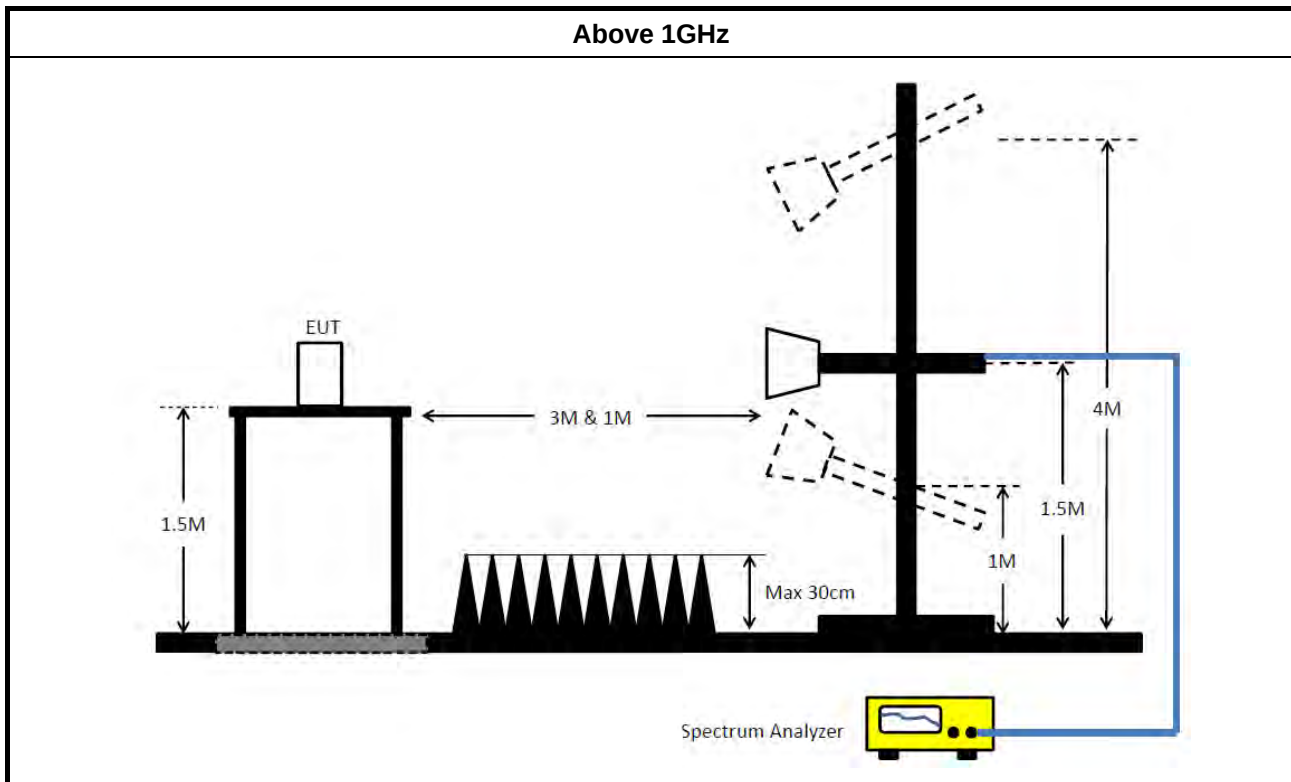
Refer a test equipment and calibration data table in this test report.

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:	
For radiated measurement.	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.	
The any unwanted emissions level shall not exceed the fundamental emission level.	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.
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

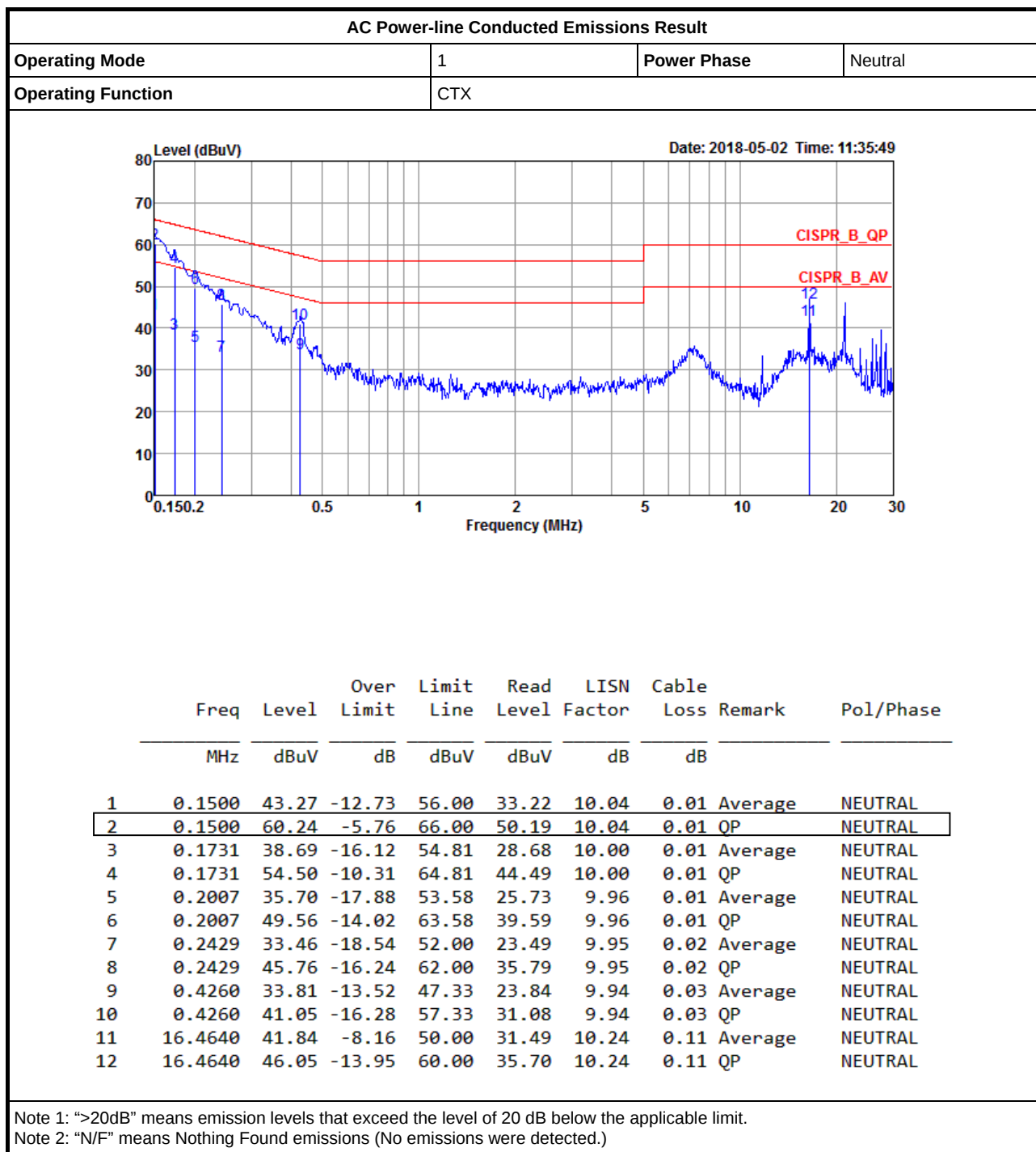
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 31, 2018	Jan. 30, 2019	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 20, 2017	Dec. 19, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 29, 2017	Dec. 28, 2018	Conduction (CO01-CB)
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, 2018	May 01, 2019	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-H G	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	100354	9kHz ~ 2.75GHz	Dec. 08, 2017	Dec. 07, 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)
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)

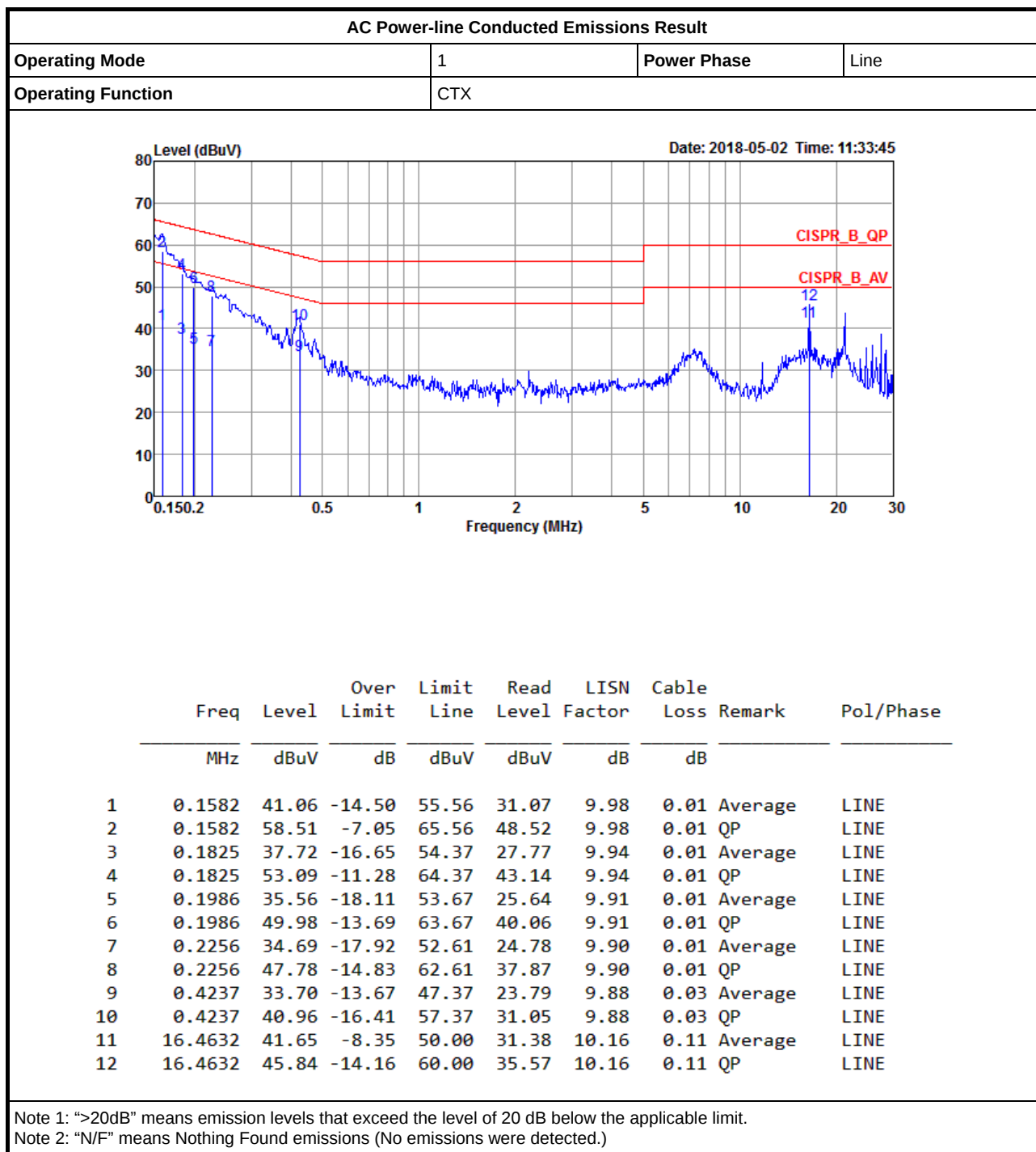


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz-40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
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.

N.C.R. means Non-Calibration required.





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	22.375M	16.567M	16M6D1D	21.85M	16.517M
802.11ac VHT20_Nss1,(MCS0)_2TX	24.5M	17.791M	17M8D1D	23.35M	17.741M
802.11ac VHT40_Nss1,(MCS0)_2TX	45.15M	36.332M	36M3D1D	44.5M	36.282M
802.11ac VHT80_Nss1,(MCS0)_2TX	91.2M	75.962M	76M0D1D	88.7M	75.962M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.375M	16.592M	16M6D1D	16.325M	16.542M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.625M	17.816M	17M8D1D	17.575M	17.741M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.1M	36.382M	36M4D1D	35.9M	36.182M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.3M	76.162M	76M2D1D	75.8M	75.962M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

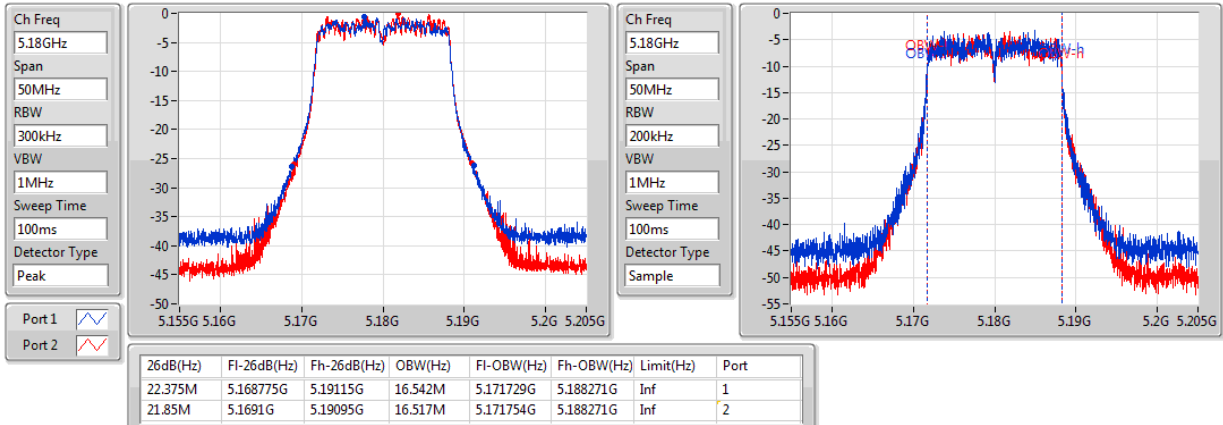
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.375M	16.542M	21.85M	16.517M
5200MHz	Pass	Inf	22.275M	16.567M	22.1M	16.542M
5240MHz	Pass	Inf	22.125M	16.517M	22.1M	16.567M
5745MHz	Pass	500k	16.325M	16.567M	16.325M	16.542M
5785MHz	Pass	500k	16.375M	16.592M	16.375M	16.567M
5825MHz	Pass	500k	16.325M	16.542M	16.375M	16.542M
802.11ac_VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	23.45M	17.766M	24.5M	17.791M
5200MHz	Pass	Inf	23.6M	17.741M	23.35M	17.766M
5240MHz	Pass	Inf	23.425M	17.741M	23.5M	17.766M
5745MHz	Pass	500k	17.6M	17.816M	17.6M	17.766M
5785MHz	Pass	500k	17.6M	17.791M	17.625M	17.741M
5825MHz	Pass	500k	17.575M	17.791M	17.575M	17.766M
802.11ac_VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	45M	36.332M	44.65M	36.282M
5230MHz	Pass	Inf	44.5M	36.332M	45.15M	36.332M
5755MHz	Pass	500k	35.9M	36.182M	36.05M	36.282M
5795MHz	Pass	500k	36.1M	36.382M	35.95M	36.282M
802.11ac_VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	91.2M	75.962M	88.7M	75.962M
5775MHz	Pass	500k	76.3M	75.962M	75.8M	76.162M

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

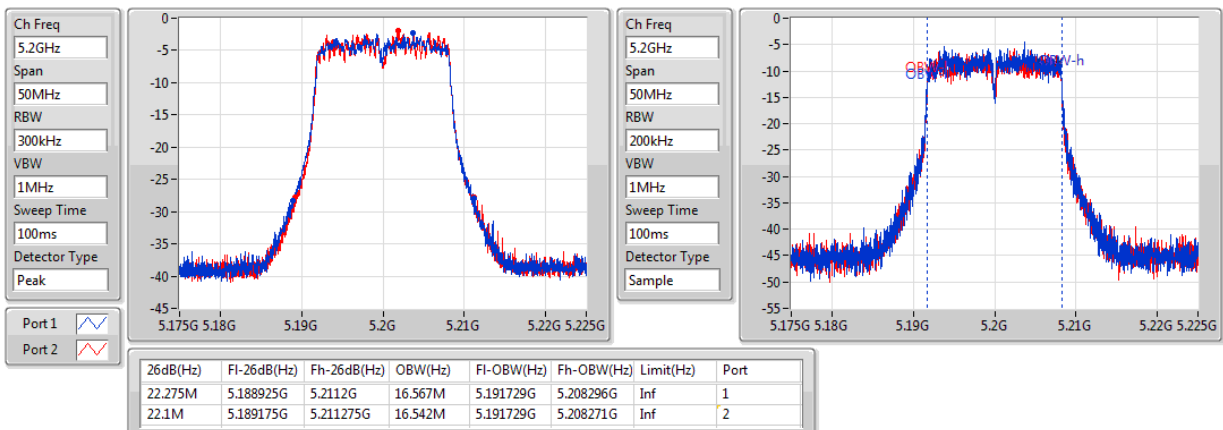
Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

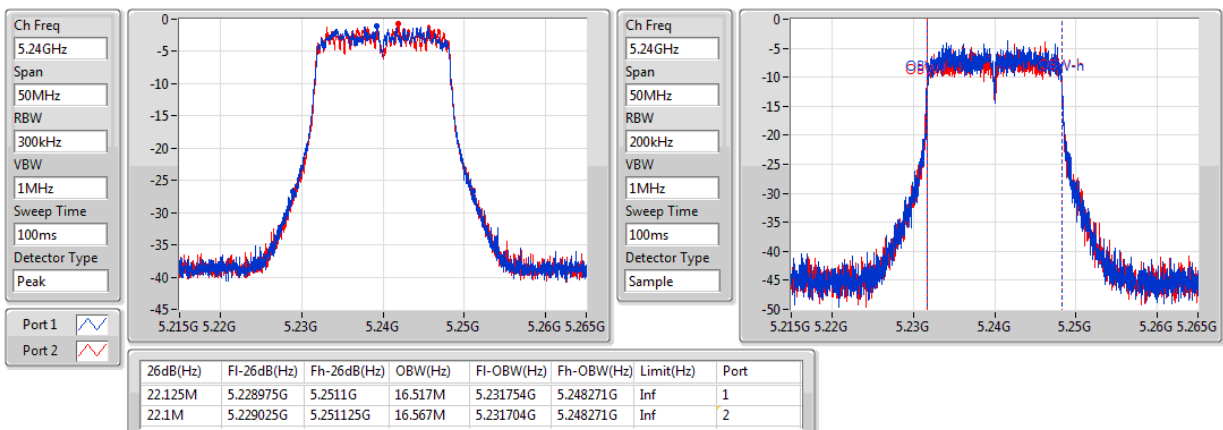
05/05/2018


802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

05/05/2018

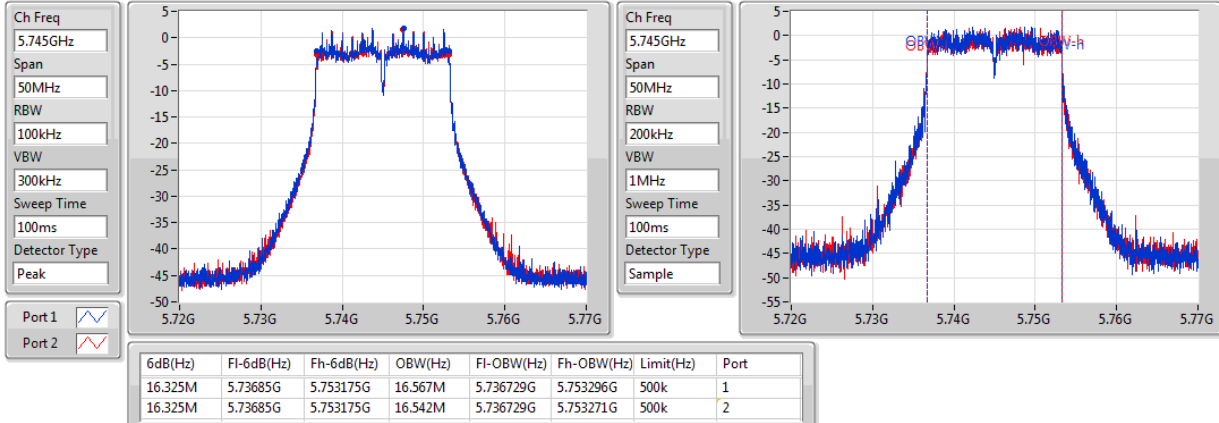

802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

05/05/2018

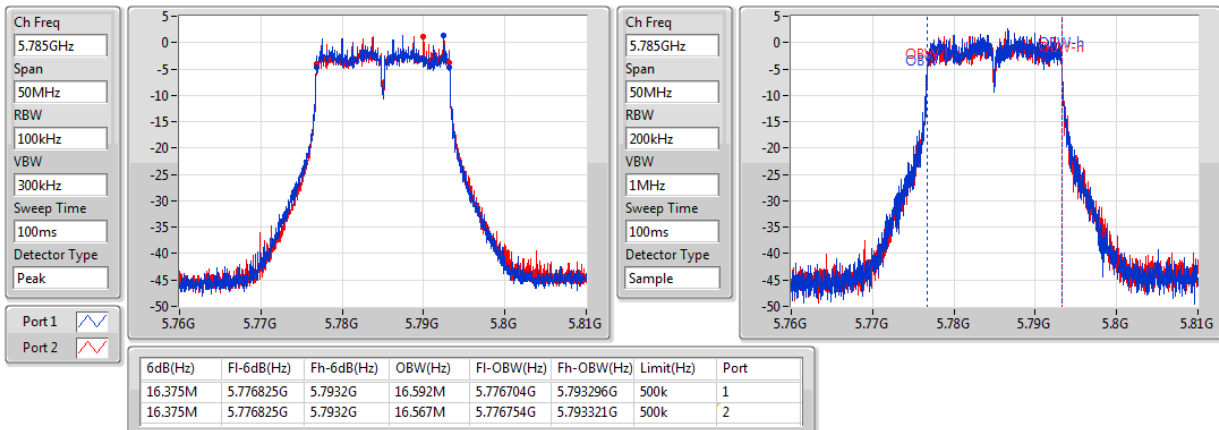


802.11a_Nss1,(6Mbps)_2TX
EBW
5745MHz

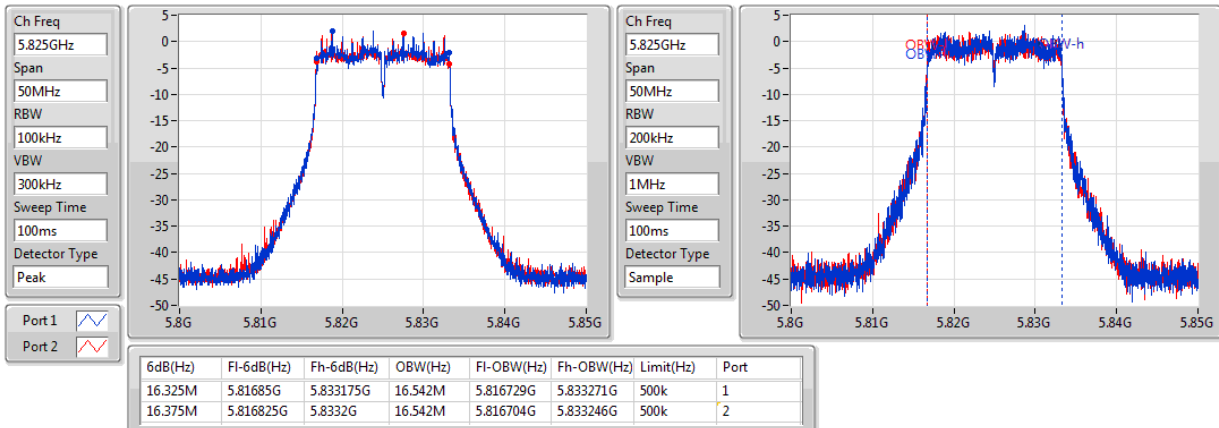
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802.11a_Nss1,(6Mbps)_2TX
EBW
5785MHz

09/05/2018

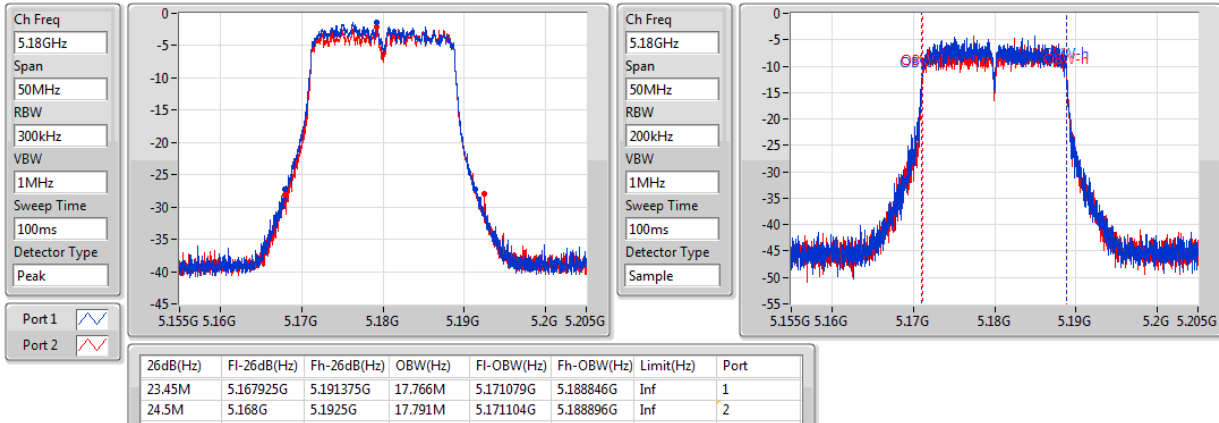

802.11a_Nss1,(6Mbps)_2TX
EBW
5825MHz

09/05/2018

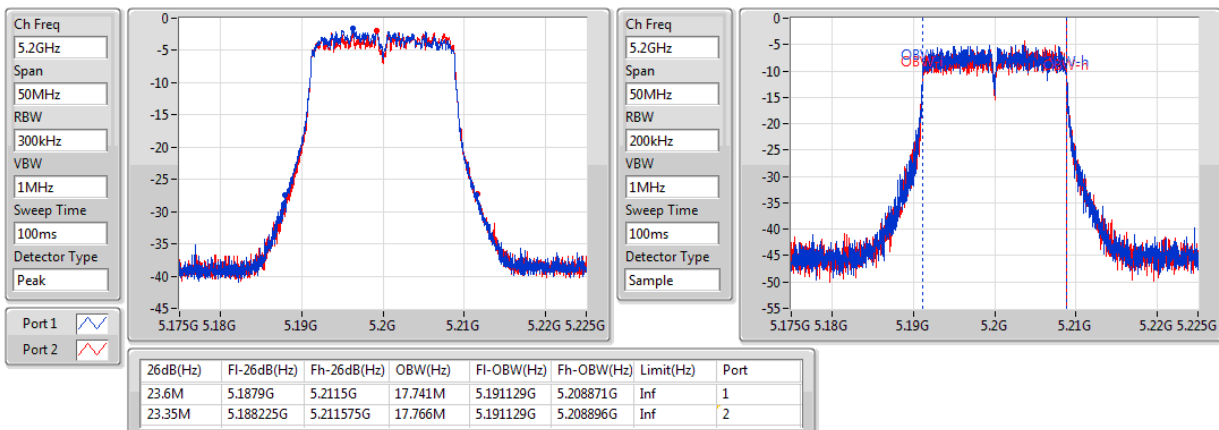


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5180MHz

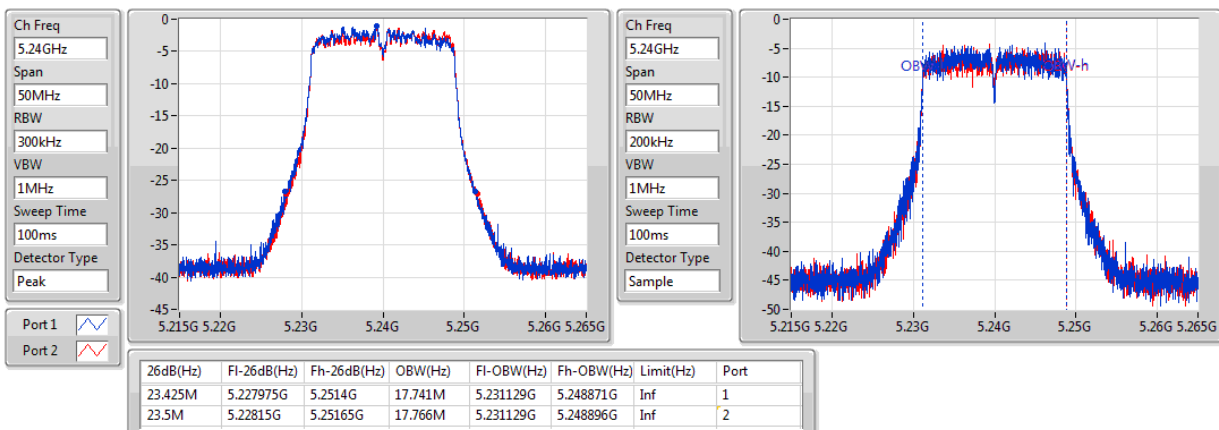
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802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5200MHz

05/05/2018

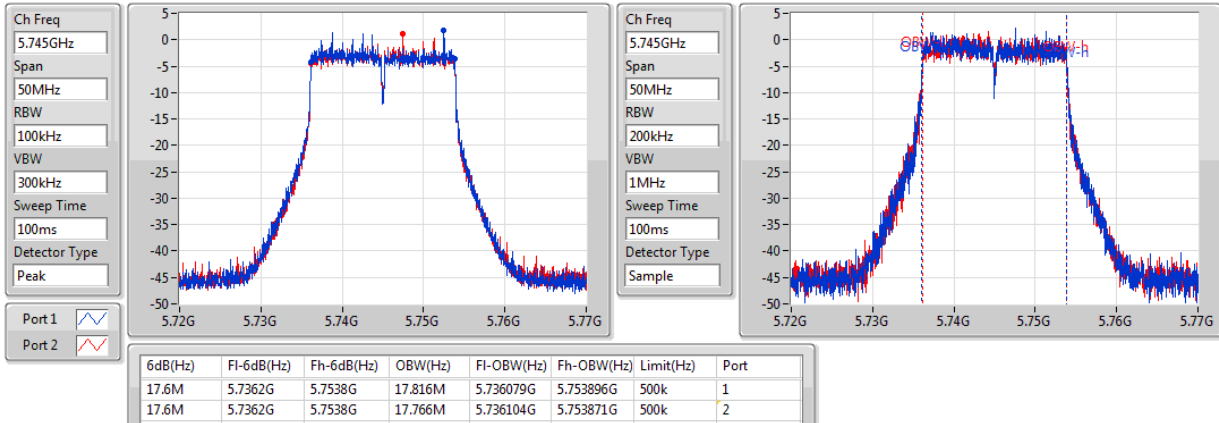

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5240MHz

05/05/2018

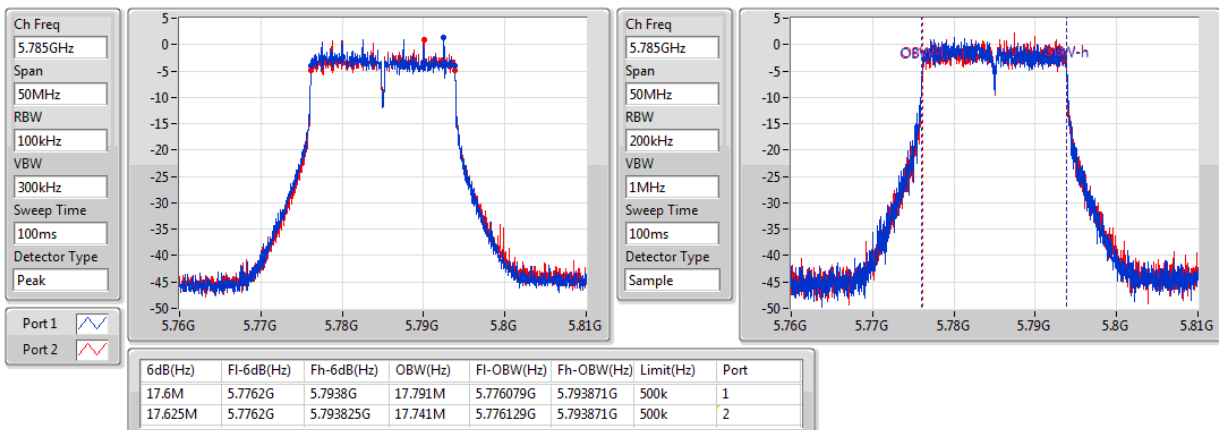


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5745MHz

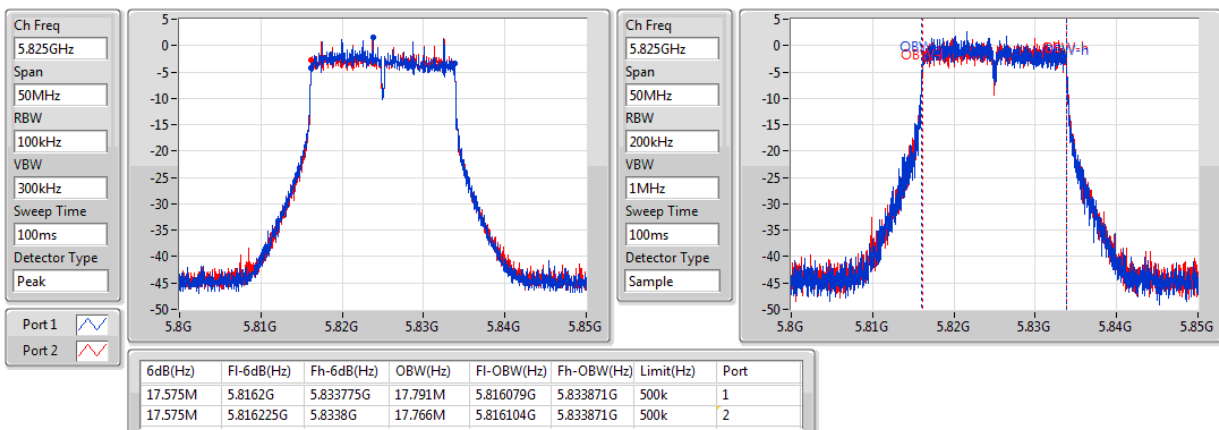
09/05/2018


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5785MHz

09/05/2018

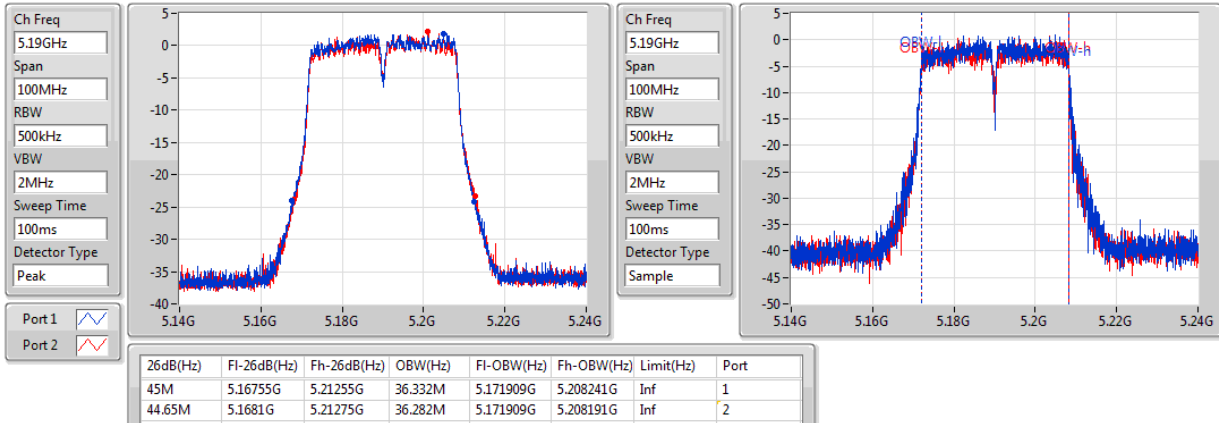

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5825MHz

09/05/2018

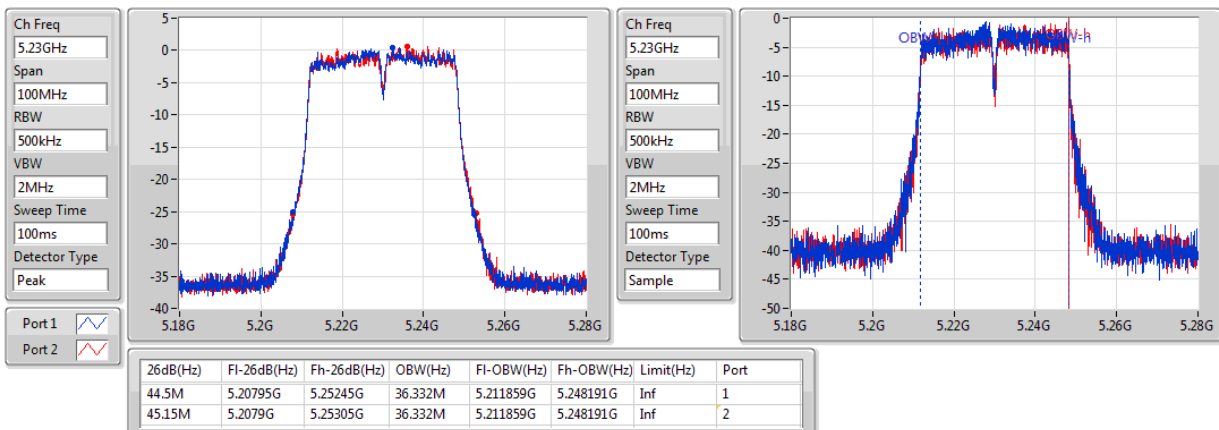


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5190MHz

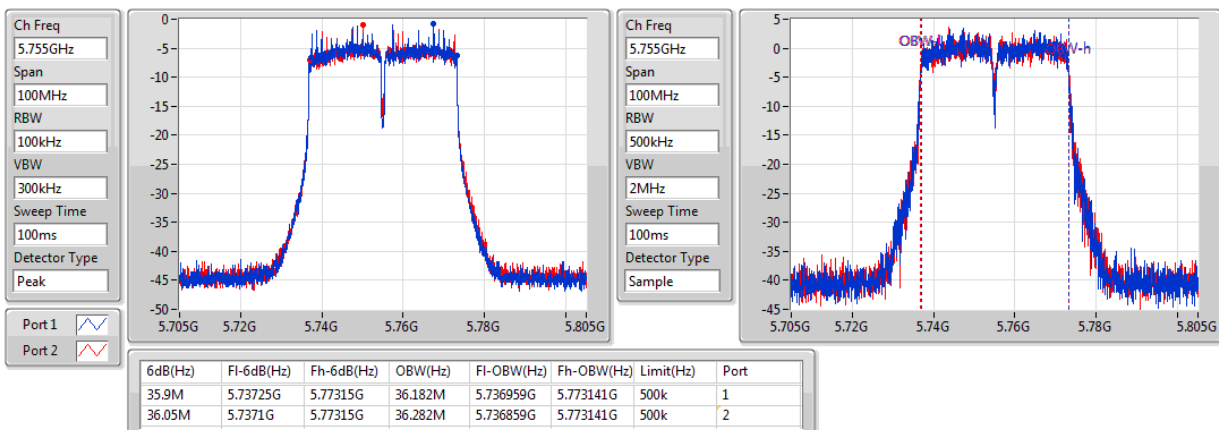
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802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5230MHz

05/05/2018

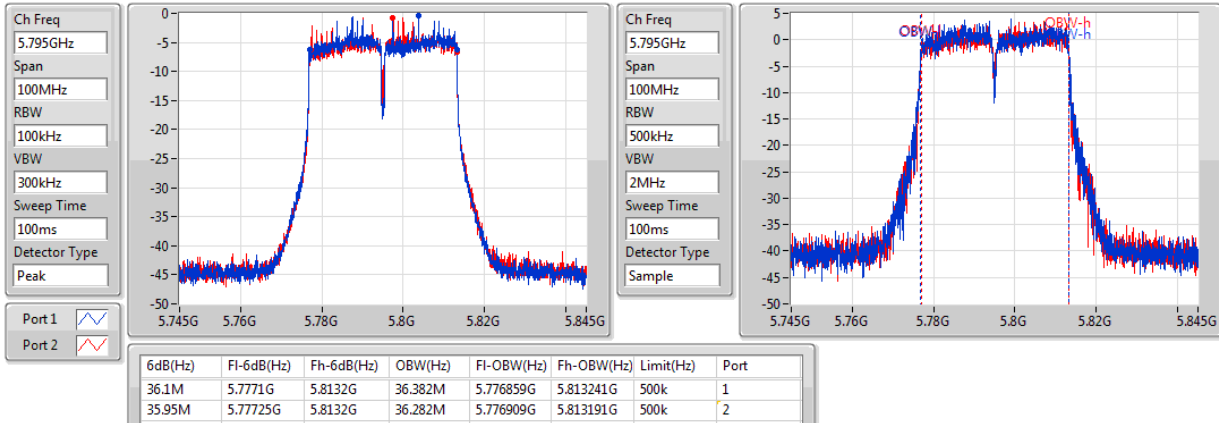

802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5755MHz

09/05/2018

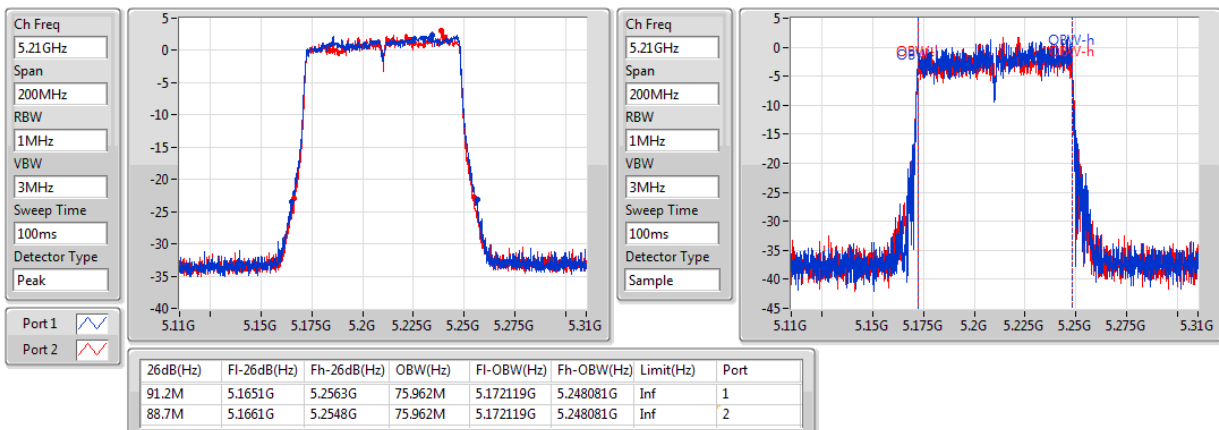


802.11ac VHT40_Nss1,(MCS0)_2TX
EBW
5795MHz

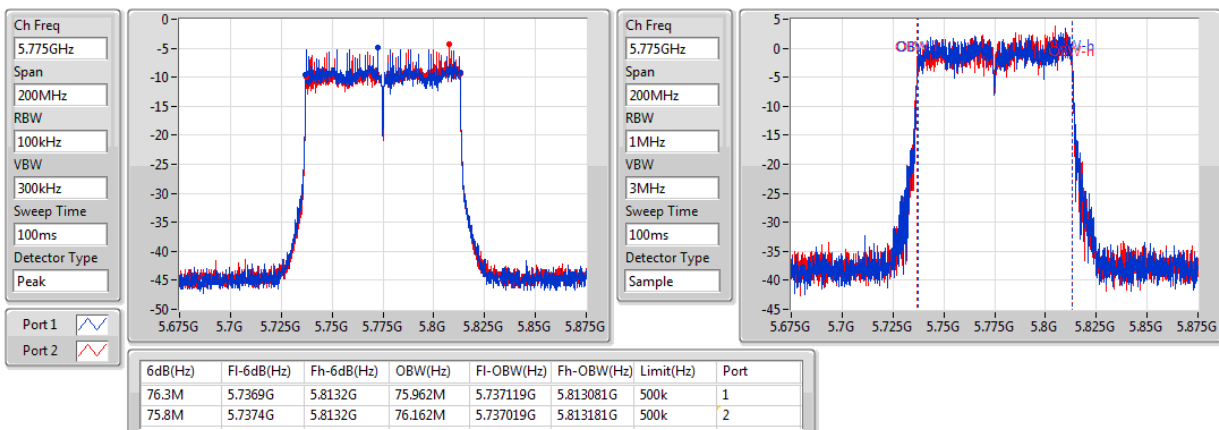
09/05/2018


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5210MHz

05/05/2018


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5775MHz

09/05/2018



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.07	0.00807
802.11ac VHT20_Nss1,(MCS0)_2TX	10.21	0.01050
802.11ac VHT40_Nss1,(MCS0)_2TX	11.91	0.01552
802.11ac VHT80_Nss1,(MCS0)_2TX	13.53	0.02254
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	16.89	0.04887
802.11ac VHT20_Nss1,(MCS0)_2TX	16.89	0.04887
802.11ac VHT40_Nss1,(MCS0)_2TX	16.75	0.04732
802.11ac VHT80_Nss1,(MCS0)_2TX	15.78	0.03784

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	20.00	5.65	5.42	8.55	30.00
5200MHz	Pass	20.00	5.72	5.33	8.54	30.00
5240MHz	Pass	20.00	6.09	6.02	9.07	30.00
5745MHz	Pass	20.00	13.27	13.20	16.25	30.00
5785MHz	Pass	20.00	13.06	13.01	16.05	30.00
5825MHz	Pass	20.00	13.91	13.84	16.89	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	20.00	6.27	6.04	9.17	30.00
5200MHz	Pass	20.00	6.83	6.61	9.73	30.00
5240MHz	Pass	20.00	7.15	7.25	10.21	30.00
5745MHz	Pass	20.00	13.15	13.24	16.21	30.00
5785MHz	Pass	20.00	12.99	13.04	16.03	30.00
5825MHz	Pass	20.00	13.89	13.86	16.89	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	20.00	8.05	7.74	10.91	30.00
5230MHz	Pass	20.00	8.97	8.82	11.91	30.00
5755MHz	Pass	20.00	13.81	13.67	16.75	30.00
5795MHz	Pass	20.00	14.02	13.44	16.75	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	20.00	10.55	10.49	13.53	30.00
5775MHz	Pass	20.00	12.82	12.71	15.78	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	-4.27
802.11ac VHT20_Nss1,(MCS0)_2TX	-3.10
802.11ac VHT40_Nss1,(MCS0)_2TX	-4.29
802.11ac VHT80_Nss1,(MCS0)_2TX	-5.53
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	2.48
802.11ac VHT20_Nss1,(MCS0)_2TX	2.16
802.11ac VHT40_Nss1,(MCS0)_2TX	-0.54
802.11ac VHT80_Nss1,(MCS0)_2TX	-4.54

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	23.01	-7.16	-7.93	-4.67	16.99
5200MHz	Pass	23.01	-7.07	-8.02	-4.71	16.99
5240MHz	Pass	23.01	-6.83	-7.36	-4.27	16.99
5745MHz	Pass	23.01	-0.47	-0.79	2.34	30.00
5785MHz	Pass	23.01	-0.65	-0.90	2.16	30.00
5825MHz	Pass	23.01	-0.17	-0.64	2.48	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	23.01	-6.64	-7.55	-4.14	16.99
5200MHz	Pass	23.01	-6.03	-6.75	-3.58	16.99
5240MHz	Pass	23.01	-5.66	-6.27	-3.10	16.99
5745MHz	Pass	23.01	-1.32	-1.33	1.64	30.00
5785MHz	Pass	23.01	-1.12	-1.58	1.65	30.00
5825MHz	Pass	23.01	-0.55	-1.04	2.16	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	23.01	-7.69	-8.28	-5.27	16.99
5230MHz	Pass	23.01	-6.85	-7.19	-4.29	16.99
5755MHz	Pass	23.01	-3.84	-4.08	-1.01	30.00
5795MHz	Pass	23.01	-3.40	-3.54	-0.54	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	23.01	-8.08	-8.56	-5.53	16.99
5775MHz	Pass	23.01	-7.64	-7.36	-4.54	30.00

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

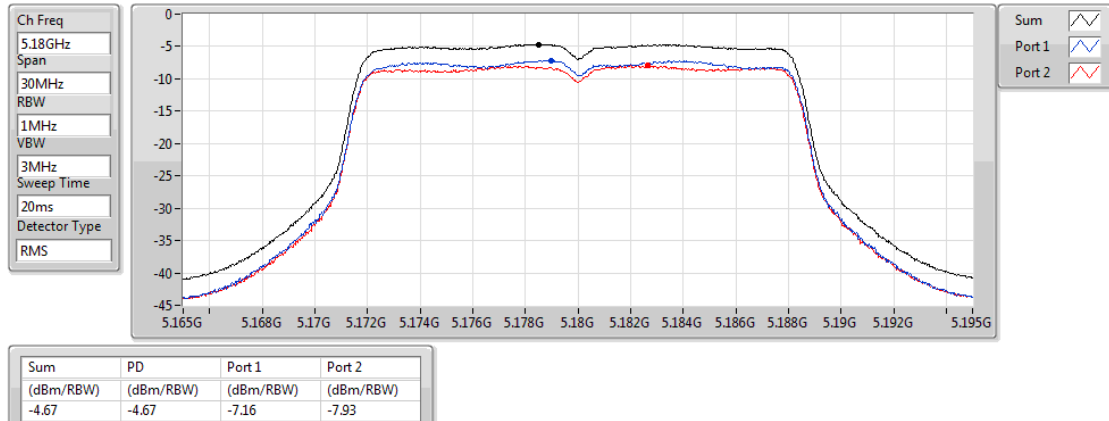
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5180MHz

07/05/2018

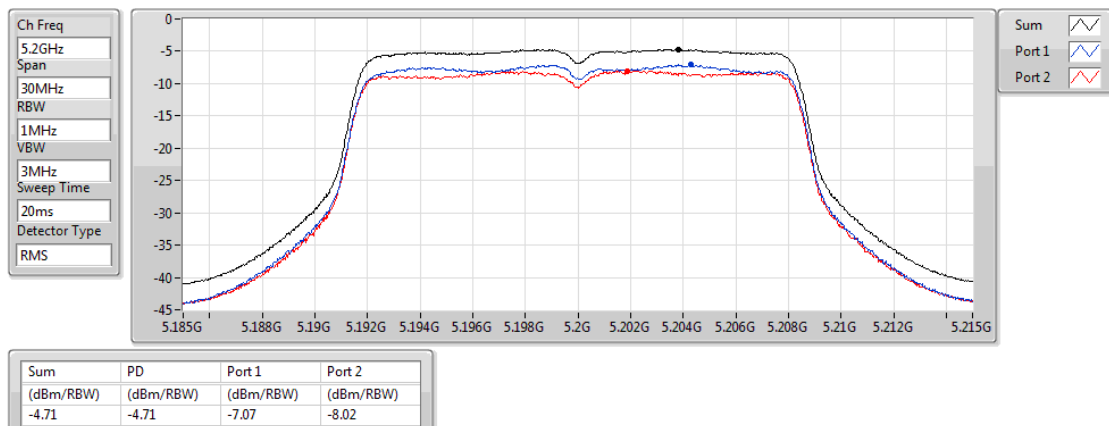


802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

07/05/2018

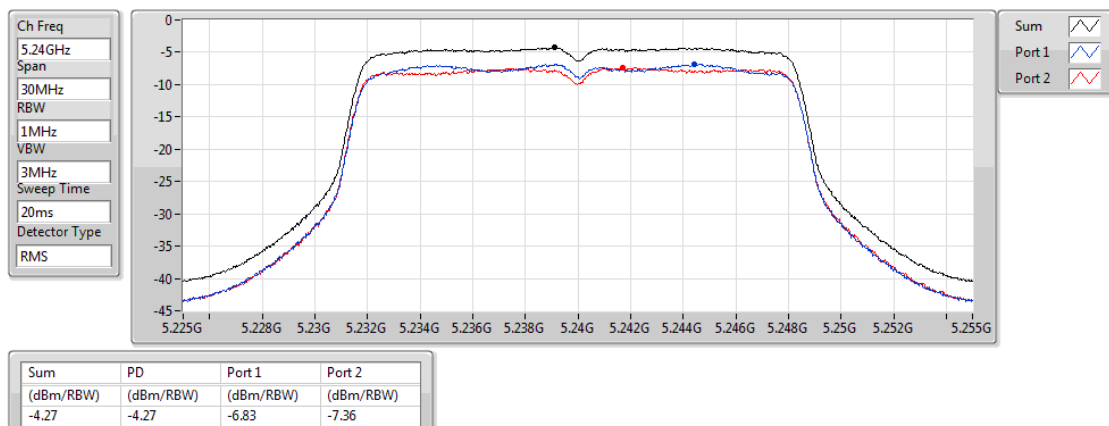


802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

07/05/2018

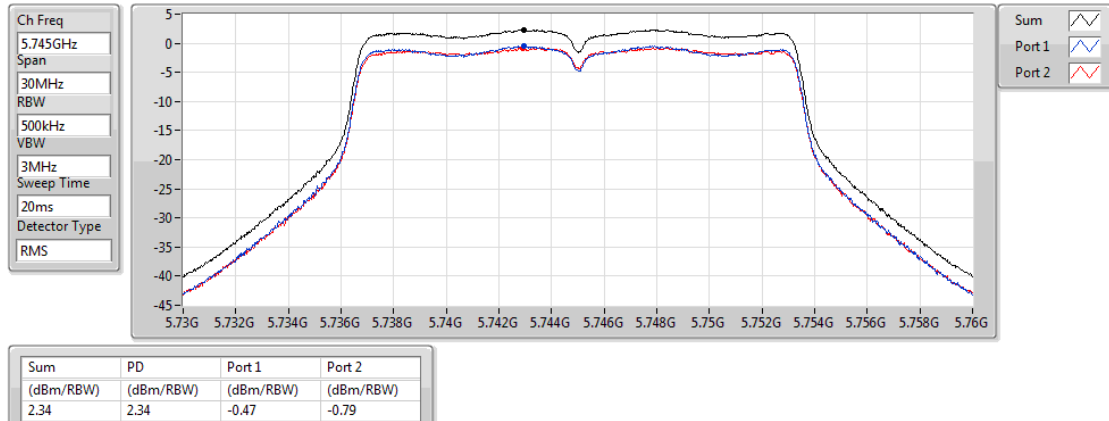


802.11a_Nss1,(6Mbps)_2TX

PSD

5745MHz

09/05/2018

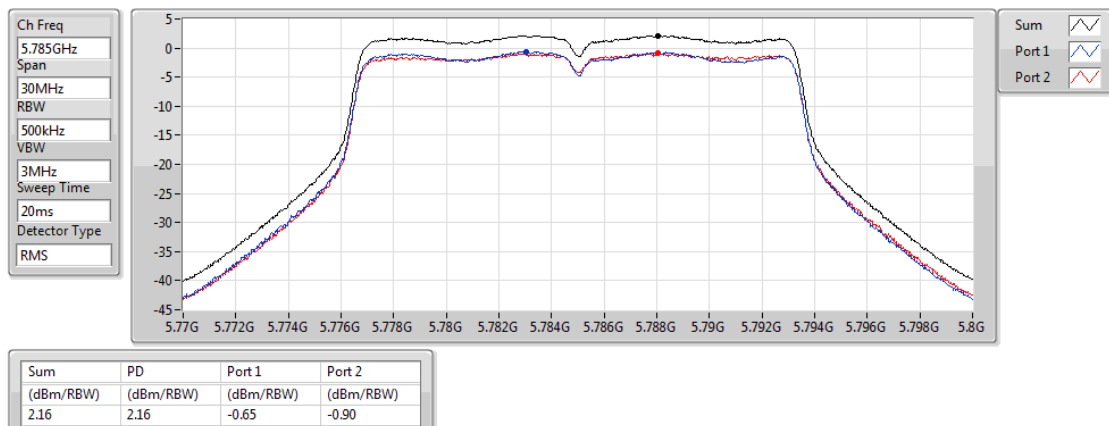


802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

09/05/2018

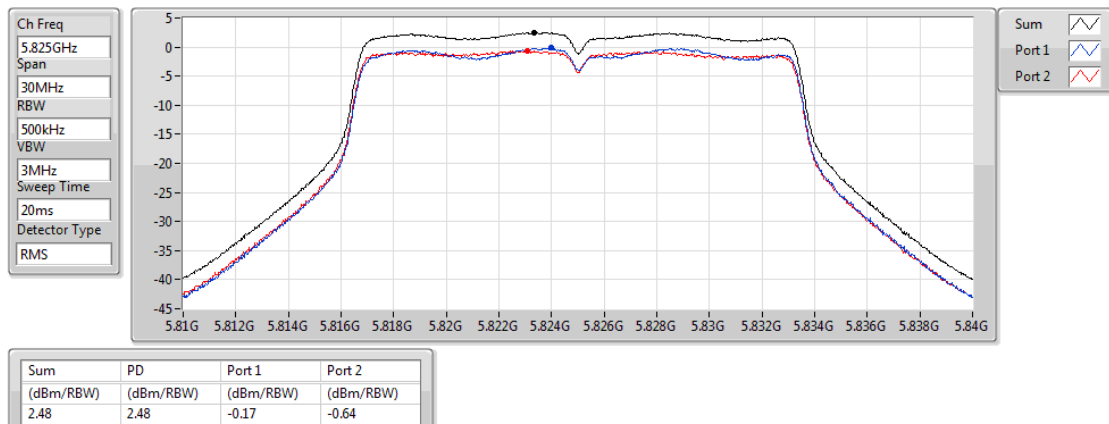


802.11a_Nss1,(6Mbps)_2TX

PSD

5825MHz

09/05/2018

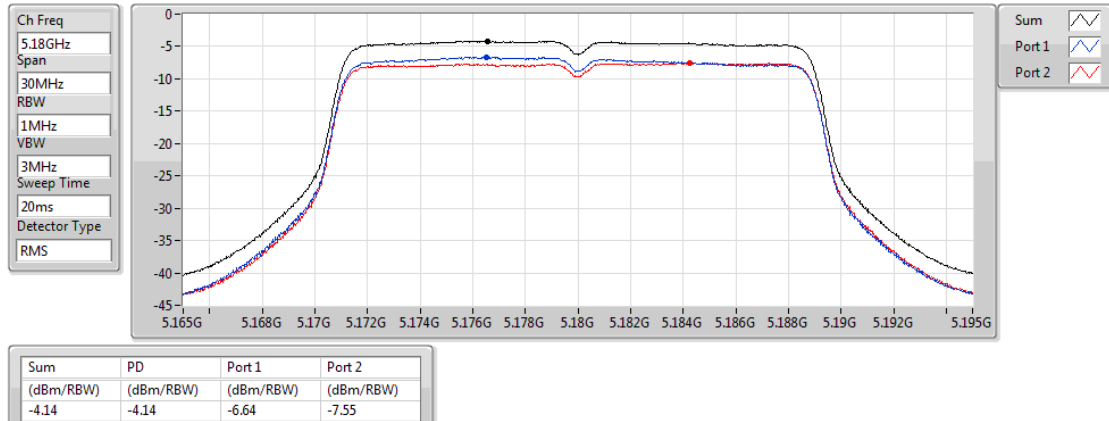


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5180MHz

07/05/2018

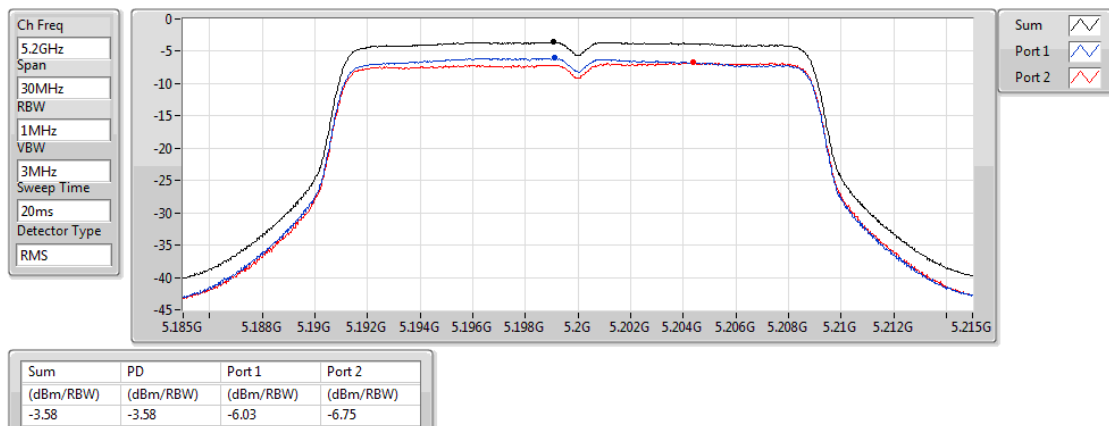


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5200MHz

07/05/2018

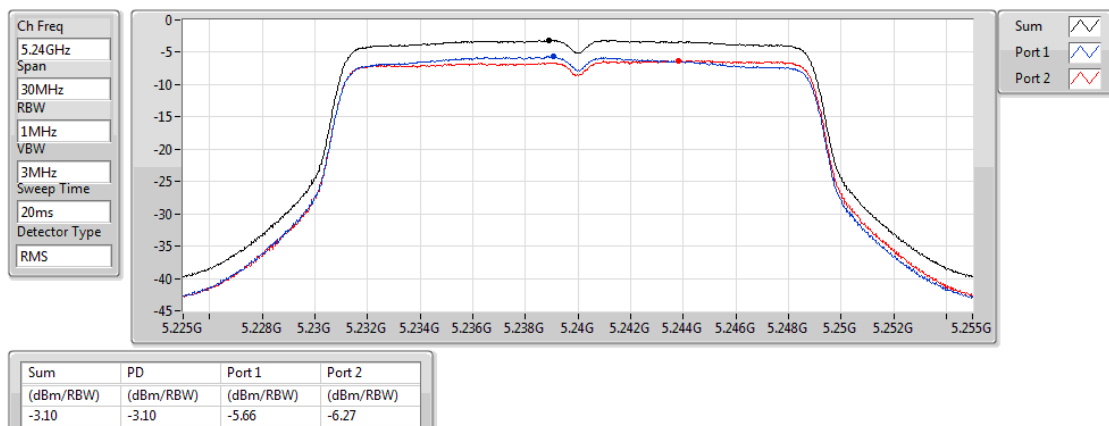


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5240MHz

07/05/2018

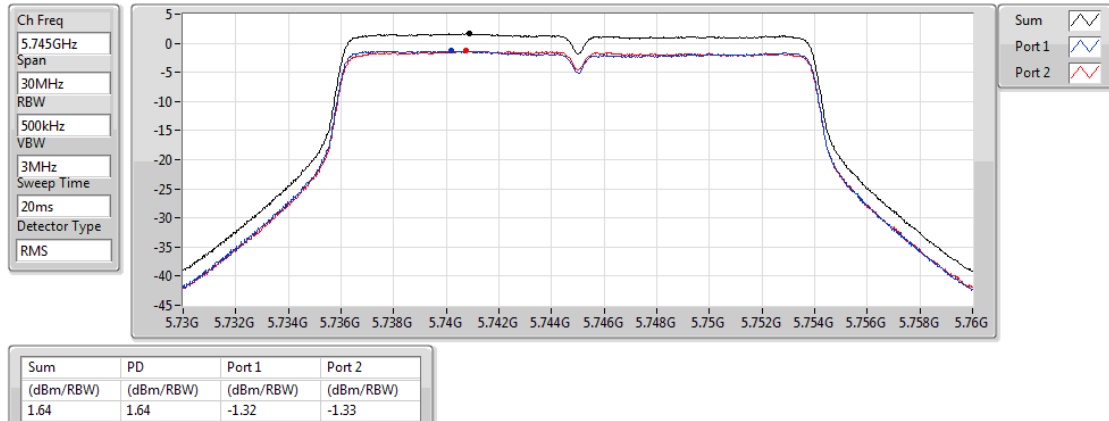


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5745MHz

09/05/2018

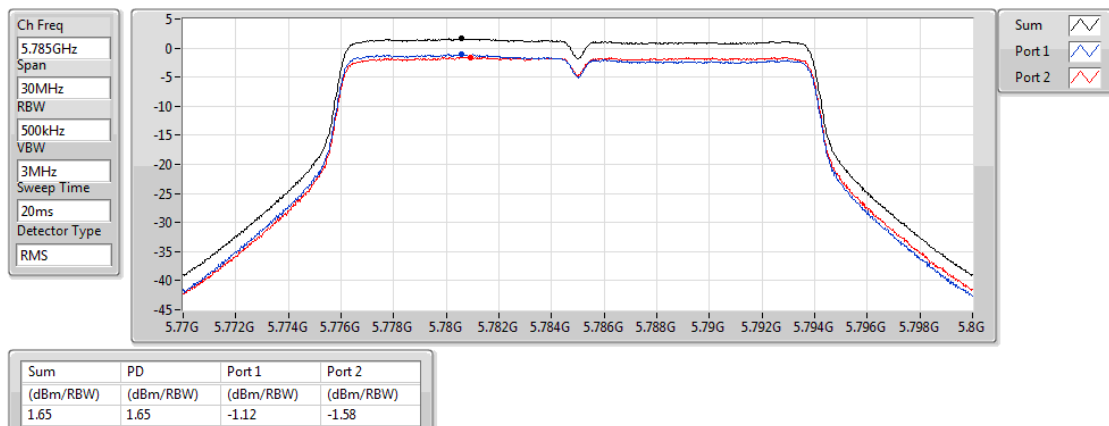


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5785MHz

09/05/2018

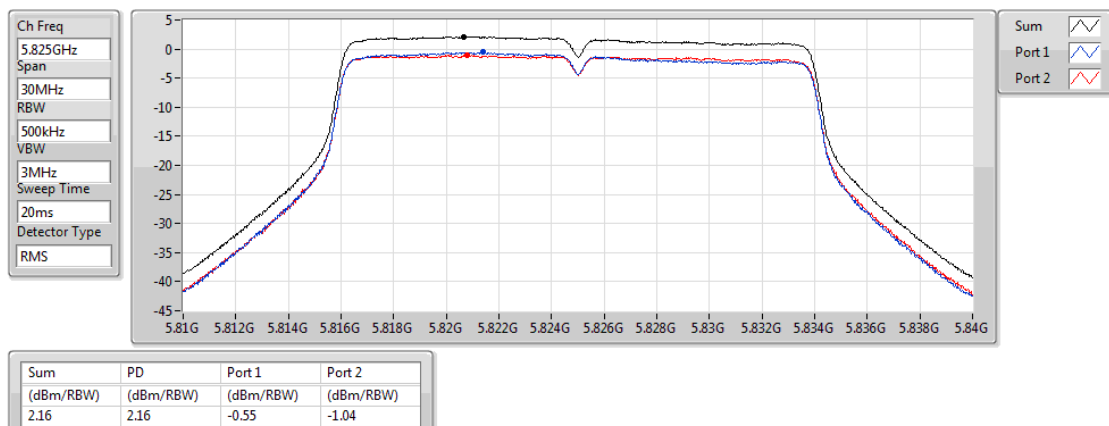


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5825MHz

09/05/2018

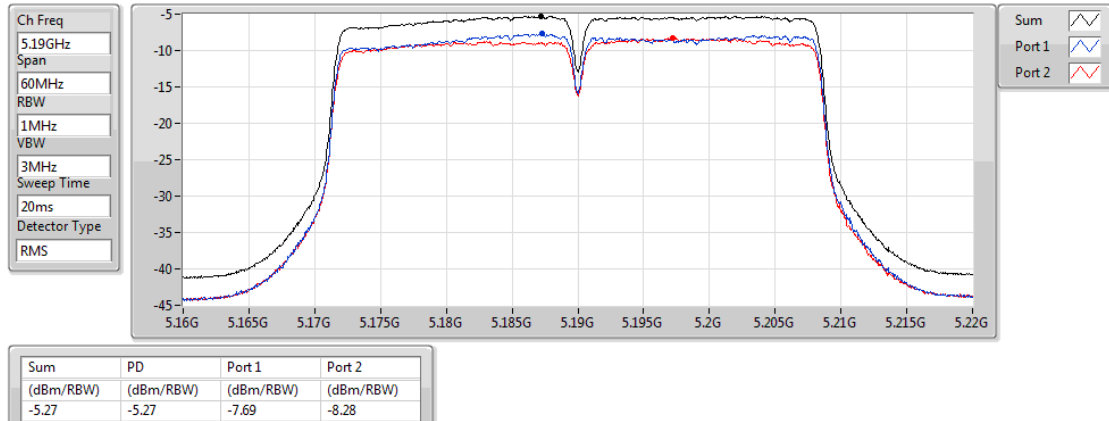


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5190MHz

07/05/2018

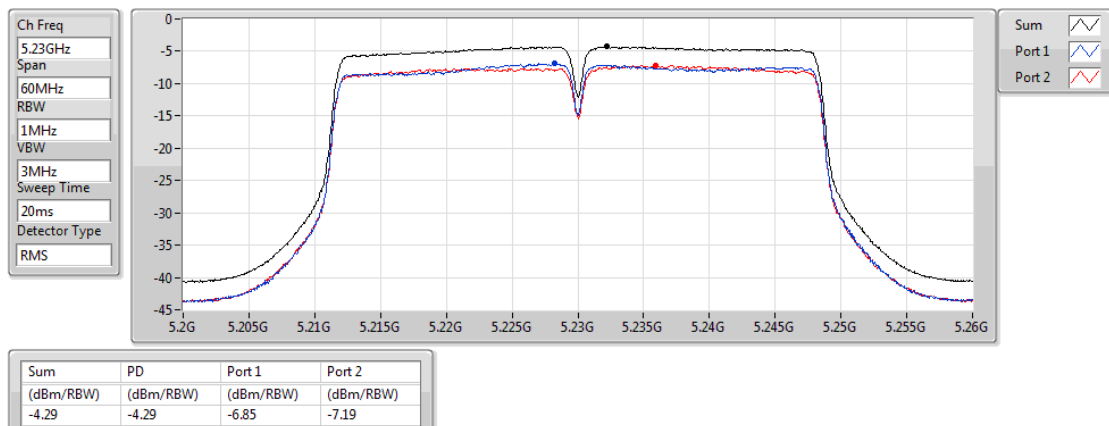


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5230MHz

07/05/2018

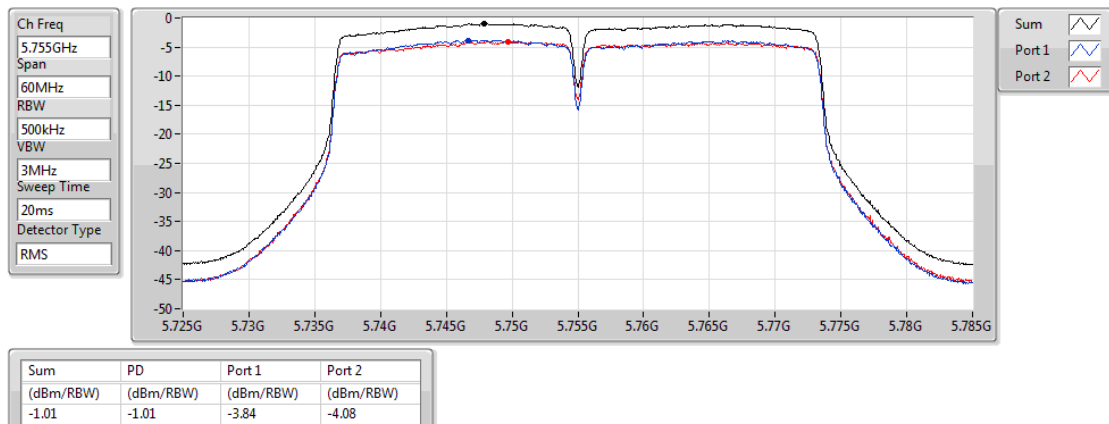


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5755MHz

09/05/2018

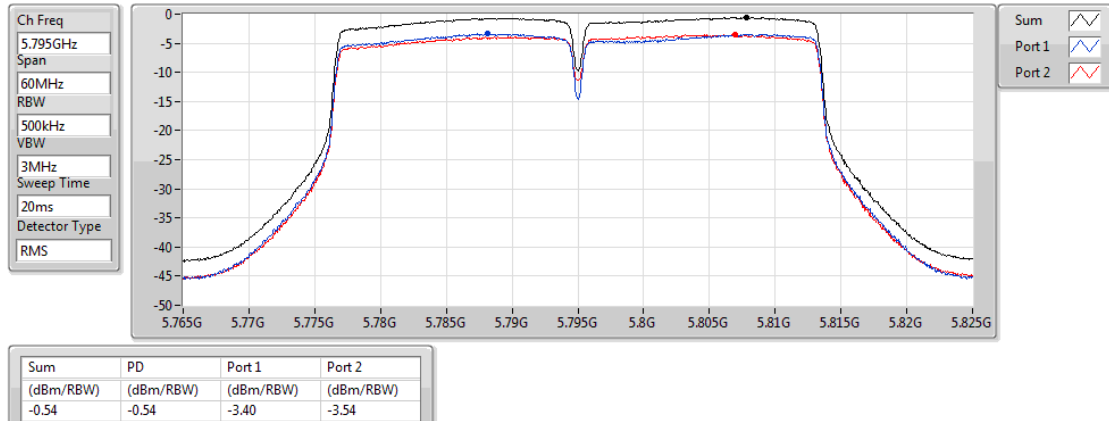


802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5795MHz

09/05/2018

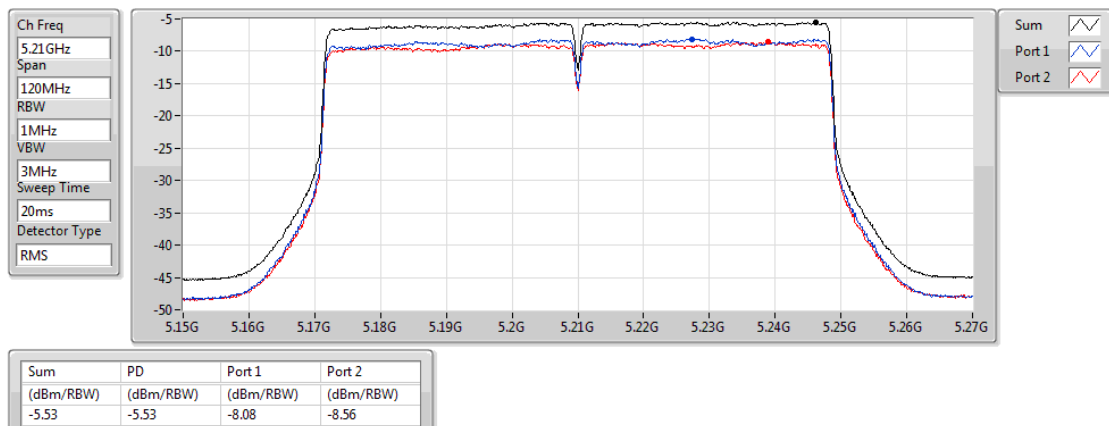


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5210MHz

07/05/2018

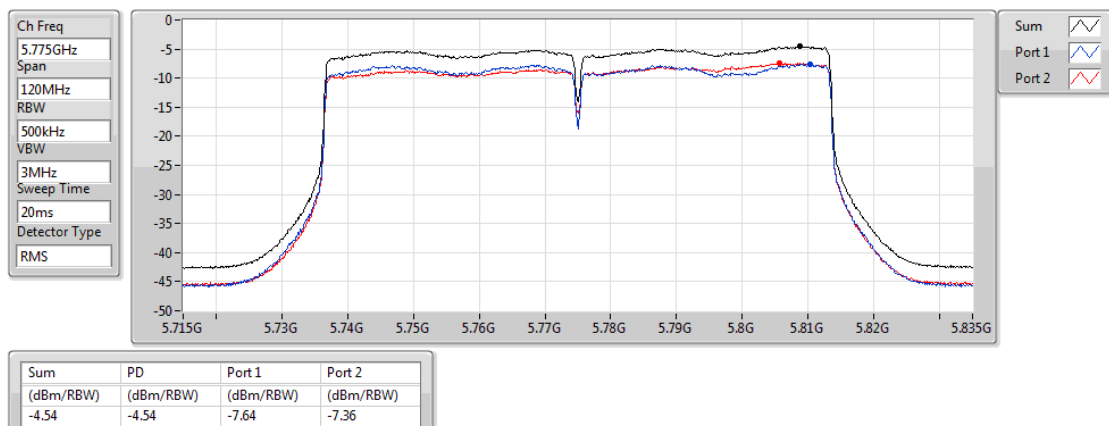


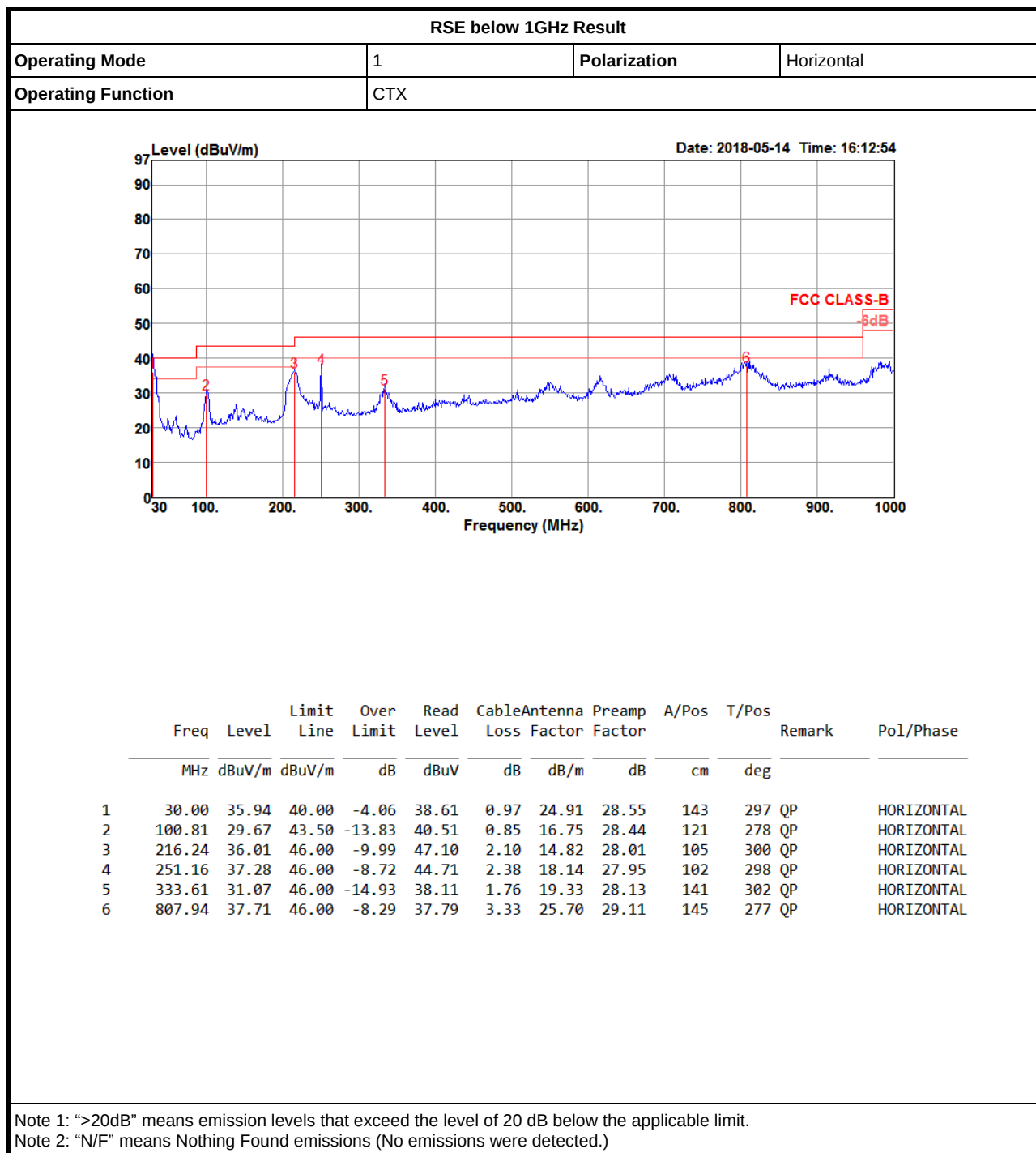
802.11ac VHT80_Nss1,(MCS0)_2TX

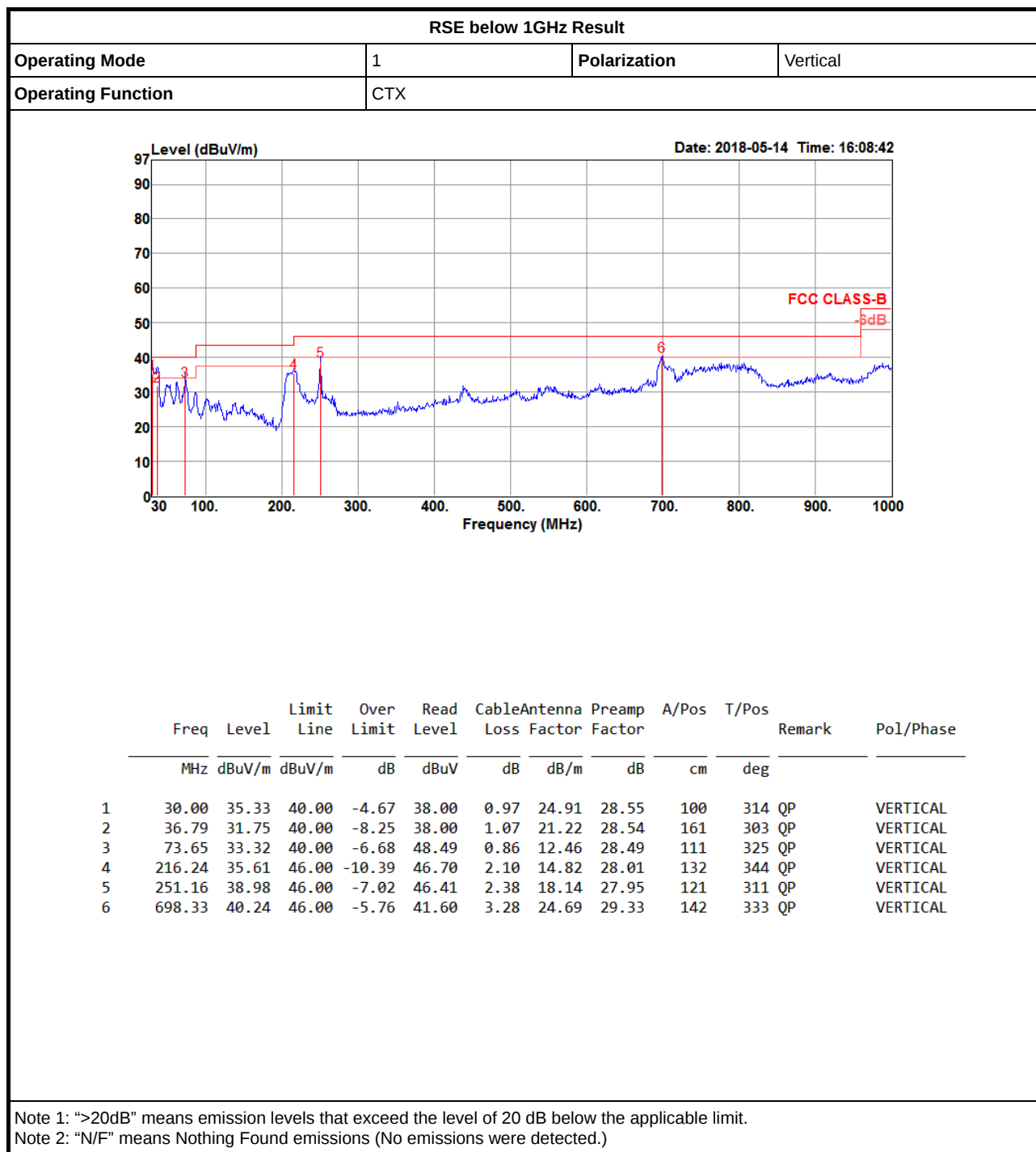
PSD

5775MHz

09/05/2018







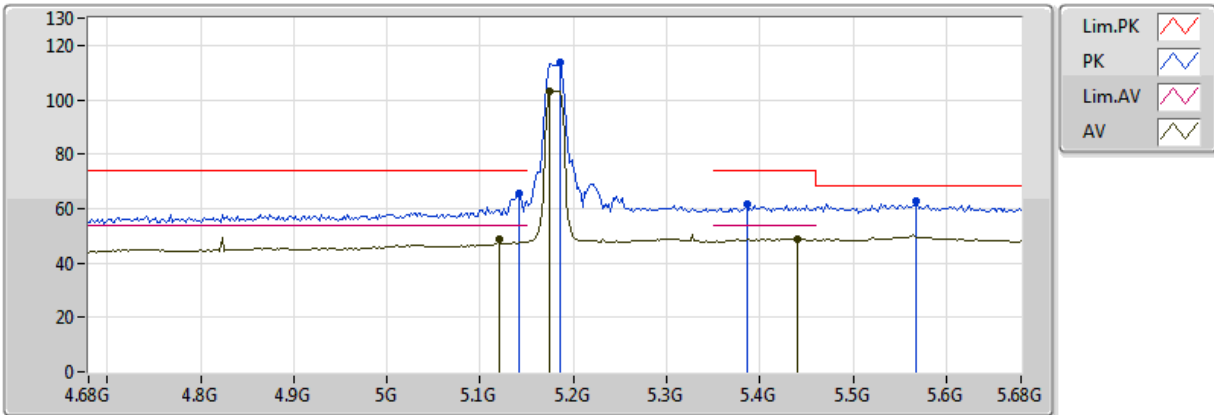
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	11.6519G	53.99	54.00	-0.01	13.41	3	Horizontal	174	2.01	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/05/2018



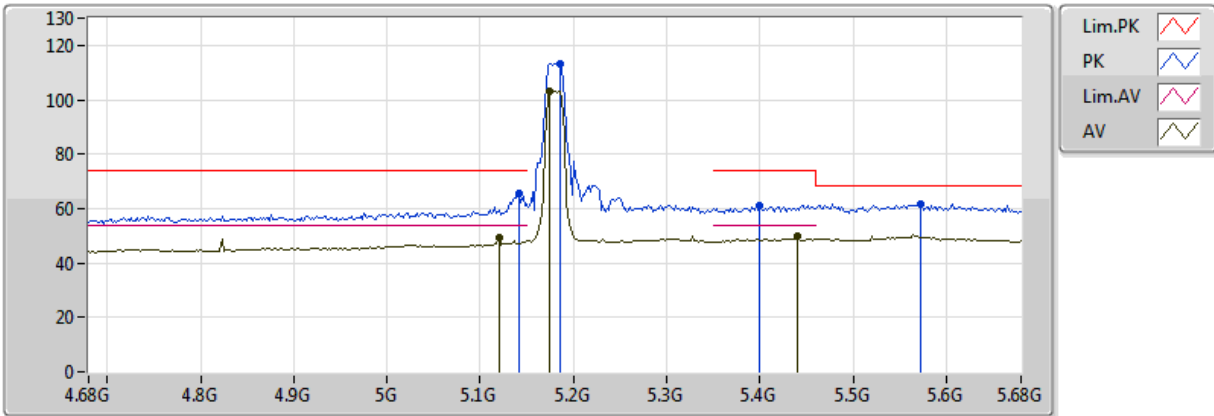
EUT_Y_2TX
Setting 4
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.142G	65.74	74.00	-8.26	4.64	3	Vertical	180	1.86	-
AV	5.12G	48.65	54.00	-5.35	4.56	3	Vertical	180	1.86	-
PK	5.186G	113.50	Inf	-Inf	4.76	3	Vertical	180	1.86	-
AV	5.174G	103.33	Inf	-Inf	4.72	3	Vertical	180	1.86	-
PK	5.386G	61.41	74.00	-12.59	5.18	3	Vertical	180	1.86	-
AV	5.44G	48.97	54.00	-5.03	5.27	3	Vertical	180	1.86	-
PK	5.568G	62.92	68.20	-5.28	5.54	3	Vertical	180	1.86	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/05/2018



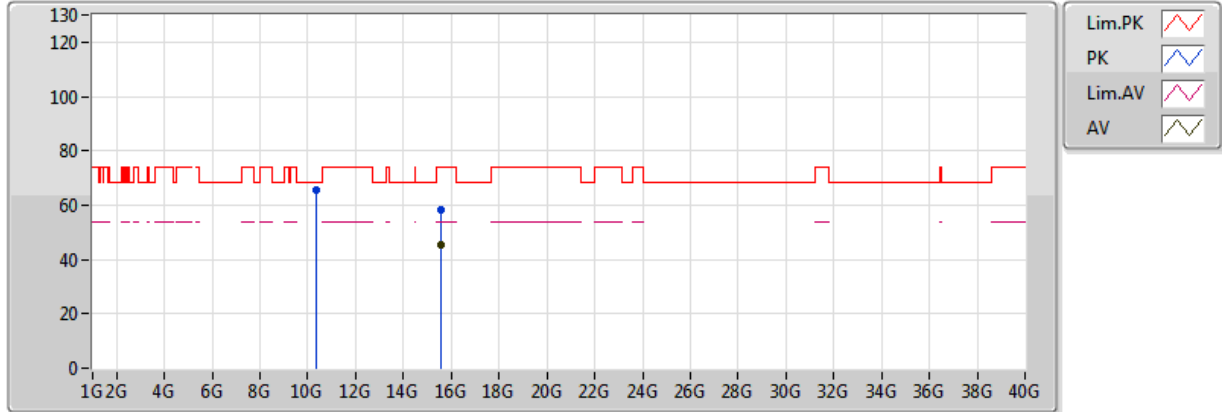
EUT Y_2TX
Setting 4
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.142G	65.83	74.00	-8.17	4.64	3	Horizontal	180	1.85	-
AV	5.12G	49.54	54.00	-4.46	4.56	3	Horizontal	180	1.85	-
PK	5.186G	113.41	Inf	-Inf	4.76	3	Horizontal	180	1.85	-
AV	5.174G	103.37	Inf	-Inf	4.72	3	Horizontal	180	1.85	-
PK	5.4G	61.19	74.00	-12.81	5.21	3	Horizontal	180	1.85	-
AV	5.44G	49.62	54.00	-4.38	5.27	3	Horizontal	180	1.85	-
PK	5.572G	61.61	68.20	-6.59	5.56	3	Horizontal	180	1.85	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/05/2018



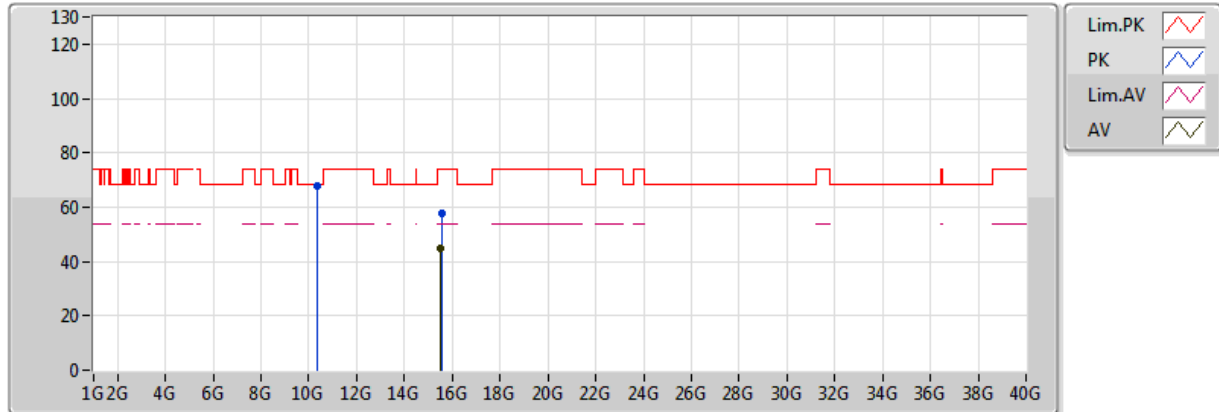
EUT Y_2TX
Setting 4
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3624G	65.57	68.20	-2.63	12.68	3	Vertical	177	1.56	-
PK	15.573G	58.44	74.00	-15.56	15.13	3	Vertical	340	1.50	-
AV	15.5846G	45.39	54.00	-8.61	15.12	3	Vertical	340	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

07/05/2018



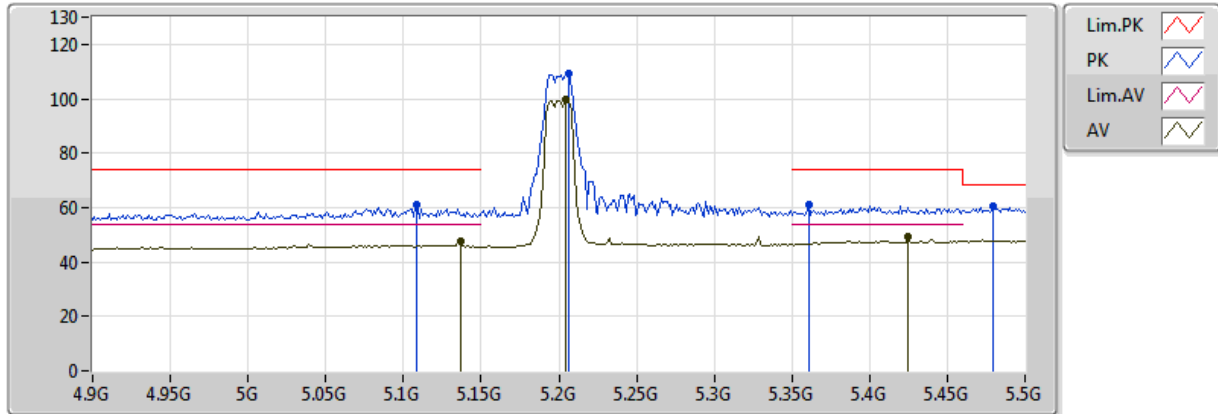
EUT Y_2TX
Setting 4
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3626G	67.96	68.20	-0.24	12.68	3	Horizontal	184	1.38	-
PK	15.55176G	57.99	74.00	-16.01	15.15	3	Horizontal	230	1.25	-
AV	15.53262G	44.63	54.00	-9.37	15.17	3	Horizontal	230	1.25	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/05/2018



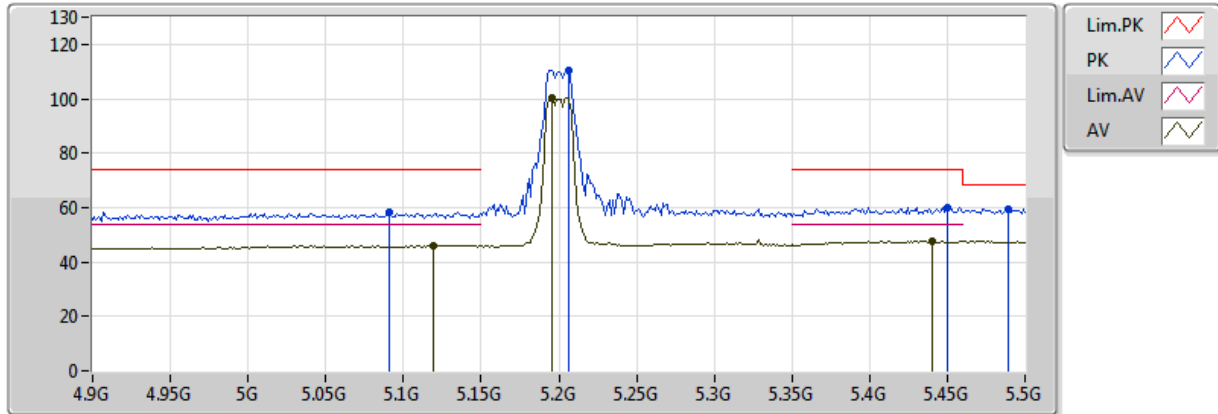
EUT Y_2TX
Setting 4
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1088G	61.12	74.00	-12.88	4.53	3	Vertical	182	1.91	-
AV	5.1364G	47.38	54.00	-6.62	4.62	3	Vertical	182	1.91	-
PK	5.206G	109.15	Inf	-Inf	4.81	3	Vertical	182	1.91	-
AV	5.2048G	99.51	Inf	-Inf	4.81	3	Vertical	182	1.91	-
PK	5.3608G	60.87	74.00	-13.13	5.14	3	Vertical	182	1.91	-
PK	5.4796G	60.55	68.20	-7.65	5.32	3	Vertical	182	1.91	-
AV	5.4244G	49.23	54.00	-4.77	5.25	3	Vertical	182	1.91	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/05/2018



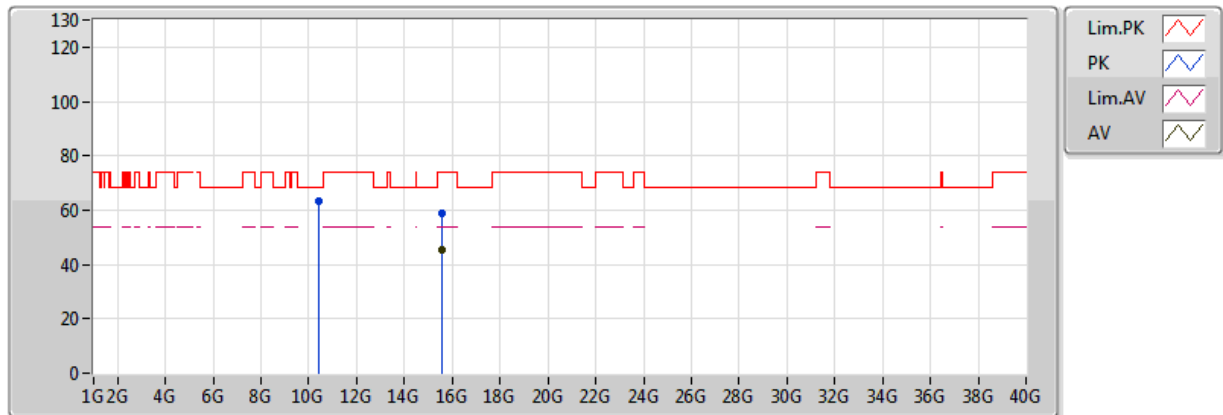
EUT Y_2TX
Setting 4
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.0908G	58.43	74.00	-15.57	4.48	3	Horizontal	180	1.97	-
AV	5.1196G	46.21	54.00	-7.79	4.56	3	Horizontal	180	1.97	-
PK	5.206G	110.54	Inf	-Inf	4.81	3	Horizontal	180	1.97	-
AV	5.1952G	100.46	Inf	-Inf	4.79	3	Horizontal	180	1.97	-
PK	5.4496G	60.22	74.00	-13.78	5.28	3	Horizontal	180	1.97	-
AV	5.44G	47.62	54.00	-6.38	5.27	3	Horizontal	180	1.97	-
PK	5.4892G	59.48	68.20	-8.72	5.34	3	Horizontal	180	1.97	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/05/2018



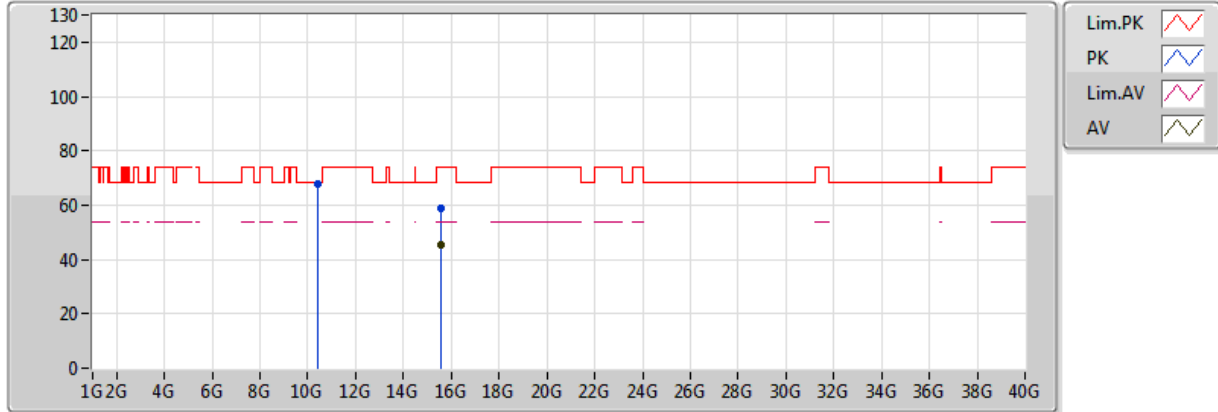
EUT Y_2TX
Setting 4
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3962G	63.44	68.20	-4.76	12.72	3	Vertical	181	1.92	-
PK	15.5922G	58.75	74.00	-15.25	15.12	3	Vertical	230	2.05	-
AV	15.59212G	45.26	54.00	-8.74	15.12	3	Vertical	230	2.05	-

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

07/05/2018



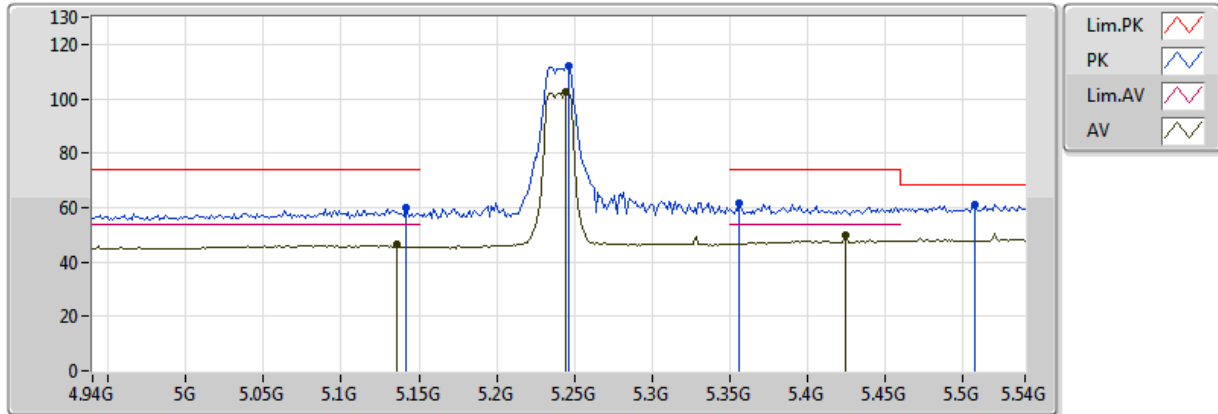
EUT Y_2TX
Setting 4
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3964G	67.90	68.20	-0.30	12.72	3	Horizontal	183	2.03	-
PK	15.5902G	58.85	74.00	-15.15	15.12	3	Horizontal	326	1.51	-
AV	15.59752G	45.30	54.00	-8.70	15.11	3	Horizontal	326	1.51	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/05/2018



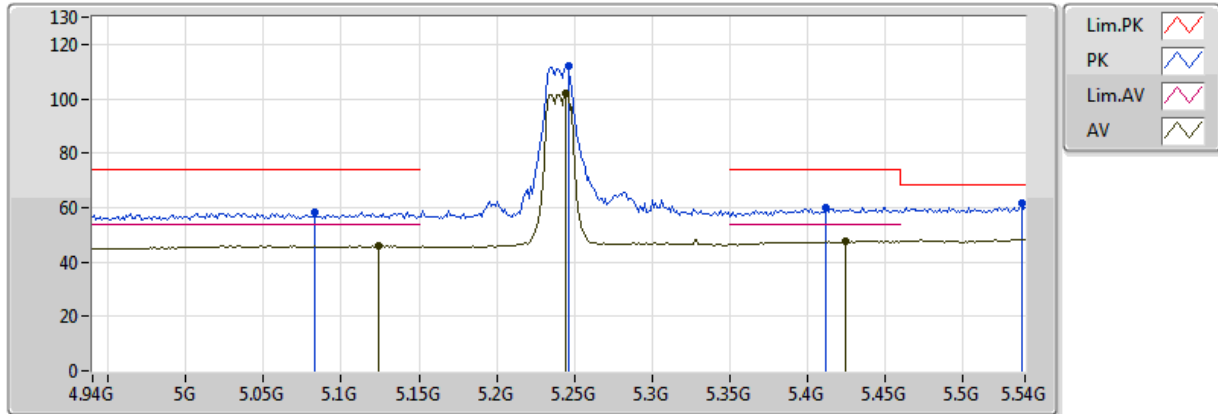
EUT Y_2TX
Setting 4
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1416G	59.72	74.00	-14.28	4.64	3	Vertical	181	1.82	-
AV	5.1356G	46.63	54.00	-7.37	4.62	3	Vertical	181	1.82	-
PK	5.246G	112.00	Inf	-Inf	4.90	3	Vertical	181	1.82	-
AV	5.2448G	102.41	Inf	-Inf	4.90	3	Vertical	181	1.82	-
PK	5.3564G	61.43	74.00	-12.57	5.13	3	Vertical	181	1.82	-
AV	5.4248G	49.63	54.00	-4.37	5.25	3	Vertical	181	1.82	-
PK	5.5076G	61.24	68.20	-6.96	5.37	3	Vertical	181	1.82	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/05/2018



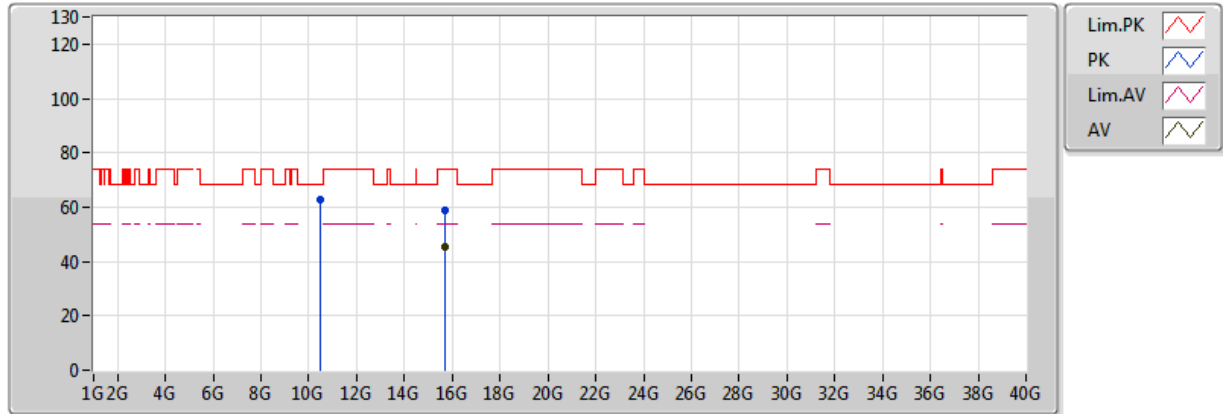
EUT Y_2TX
Setting 4
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.0828G	58.19	74.00	-15.81	4.46	3	Horizontal	181	1.95	-
AV	5.1236G	46.14	54.00	-7.86	4.58	3	Horizontal	181	1.95	-
PK	5.246G	111.91	Inf	-Inf	4.90	3	Horizontal	181	1.95	-
AV	5.2448G	102.19	Inf	-Inf	4.90	3	Horizontal	181	1.95	-
PK	5.4116G	60.11	74.00	-13.89	5.23	3	Horizontal	181	1.95	-
AV	5.4248G	47.72	54.00	-6.28	5.25	3	Horizontal	181	1.95	-
PK	5.5376G	61.39	68.20	-6.81	5.46	3	Horizontal	181	1.95	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/05/2018



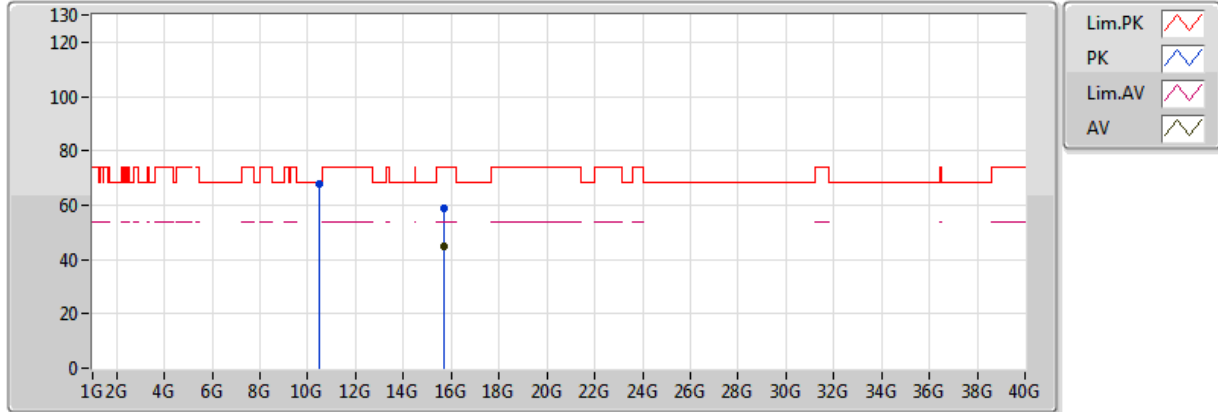
EUT Y_2TX
Setting 4
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.4822G	62.66	68.20	-5.54	12.81	3	Vertical	180	1.57	-
PK	15.71774G	58.59	74.00	-15.41	14.99	3	Vertical	248	1.75	-
AV	15.7199G	45.13	54.00	-8.87	14.99	3	Vertical	248	1.75	-

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

07/05/2018



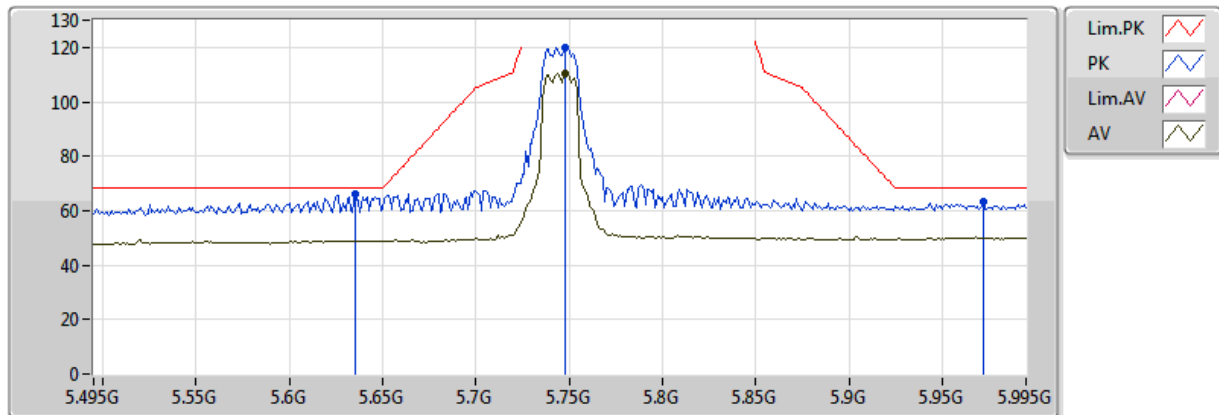
EUT Y_2TX
Setting 4
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.4824G	67.72	68.20	-0.48	12.82	3	Horizontal	175	2.03	-
PK	15.7174G	58.64	74.00	-15.36	14.99	3	Horizontal	257	1.74	-
AV	15.72106G	45.10	54.00	-8.90	14.99	3	Horizontal	257	1.74	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

04/05/2018



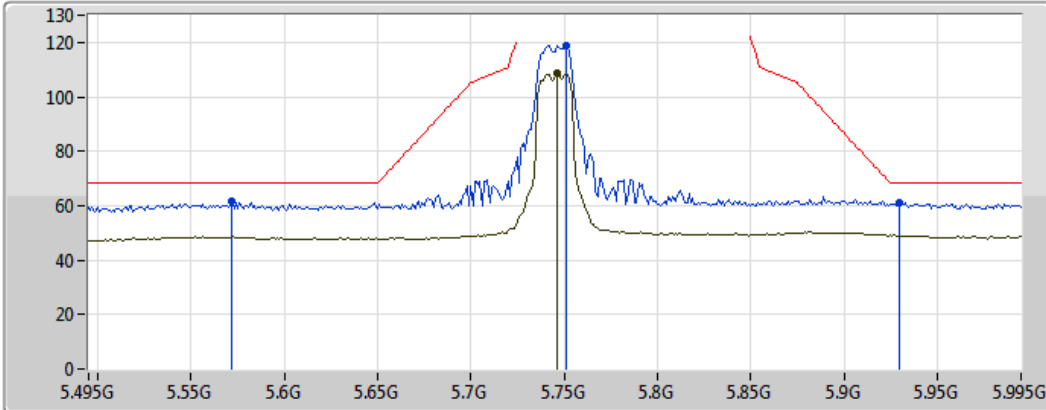
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.635G	65.88	68.20	-2.32	5.75	3	Vertical	181	1.86	-
PK	5.748G	119.78	Inf	-Inf	6.17	3	Vertical	181	1.86	-
AV	5.748G	110.45	Inf	-Inf	6.17	3	Vertical	181	1.86	-
PK	5.972G	63.12	68.20	-5.08	6.98	3	Vertical	181	1.86	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

04/05/2018



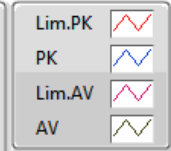
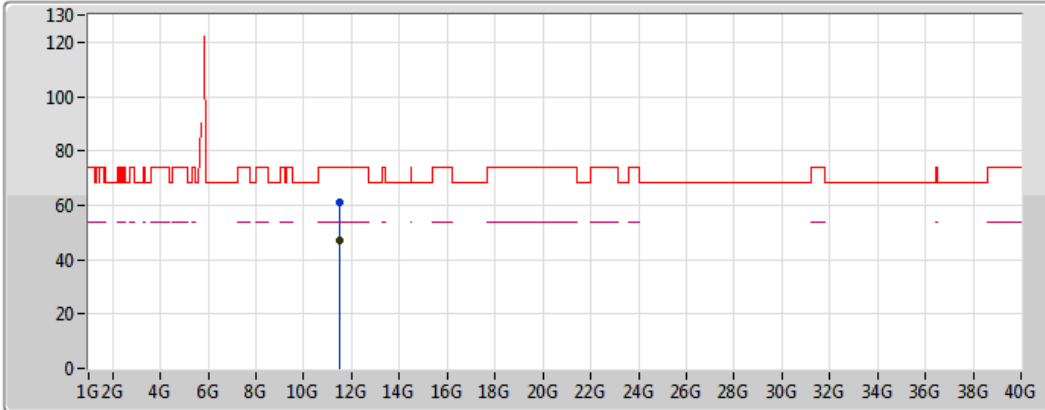
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.572G	61.88	68.20	-6.32	5.56	3	Horizontal	176	1.50	-
PK	5.751G	119.00	Inf	-Inf	6.18	3	Horizontal	176	1.50	-
AV	5.746G	108.79	Inf	-Inf	6.17	3	Horizontal	176	1.50	-
PK	5.93G	61.07	68.20	-7.13	6.83	3	Horizontal	176	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

04/05/2018



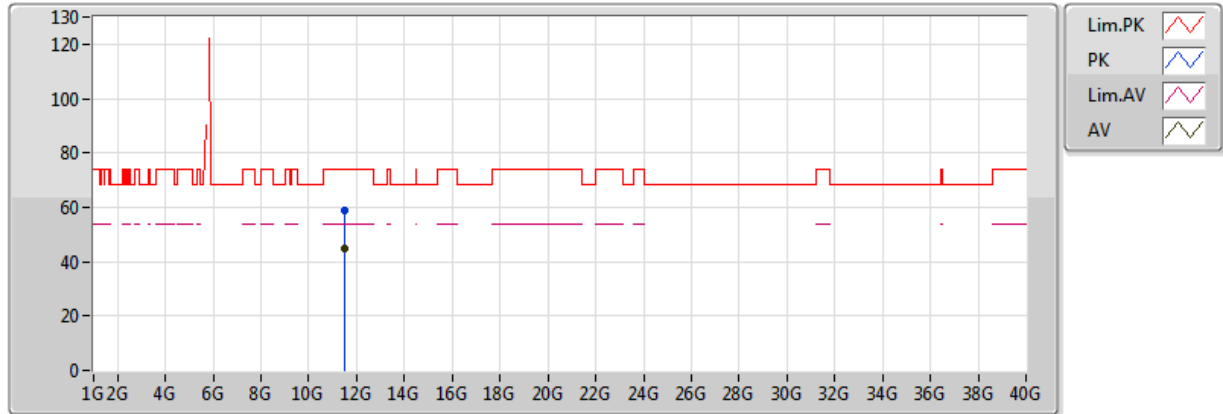
EUT Y_2TX
Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.4863G	60.87	74.00	-13.13	13.41	3	Vertical	182	1.88	-
AV	11.4908G	46.86	54.00	-7.14	13.41	3	Vertical	182	1.88	-

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

04/05/2018



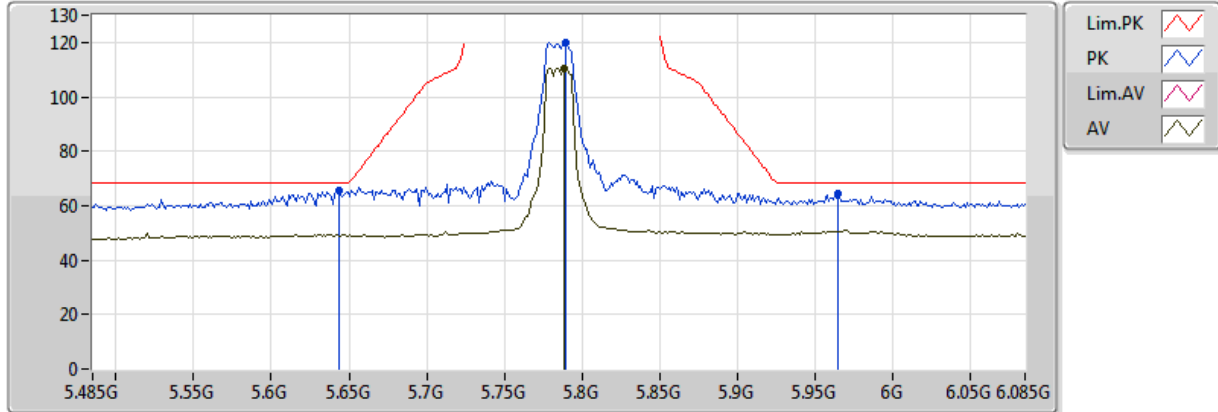
EUT Y_2TX
Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.4924G	59.09	74.00	-14.91	13.41	3	Horizontal	175	1.50	-
AV	11.4924G	44.84	54.00	-9.16	13.41	3	Horizontal	175	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

04/05/2018



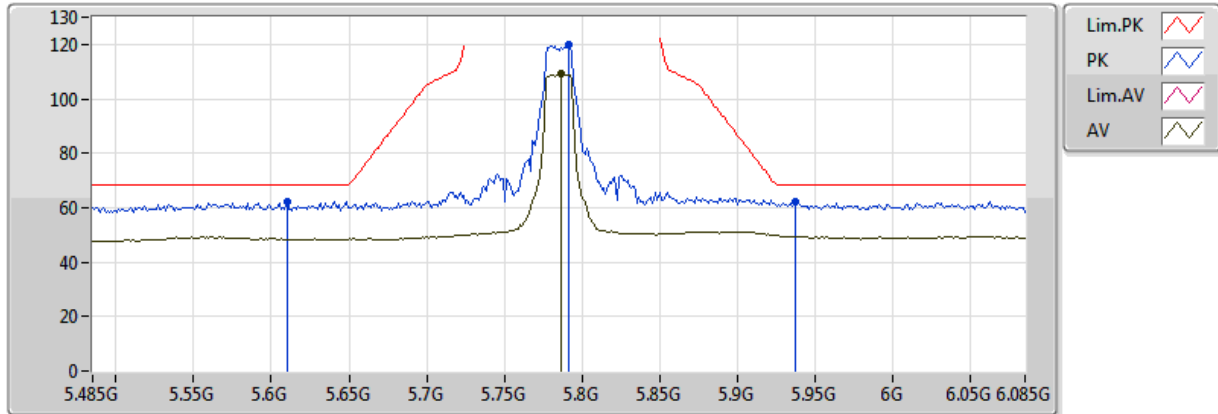
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6434G	65.47	68.20	-2.73	5.79	3	Vertical	178	1.88	-
PK	5.7898G	119.78	Inf	-Inf	6.32	3	Vertical	178	1.88	-
AV	5.7886G	110.42	Inf	-Inf	6.32	3	Vertical	178	1.88	-
PK	5.965G	64.36	68.20	-3.84	6.96	3	Vertical	178	1.88	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

04/05/2018



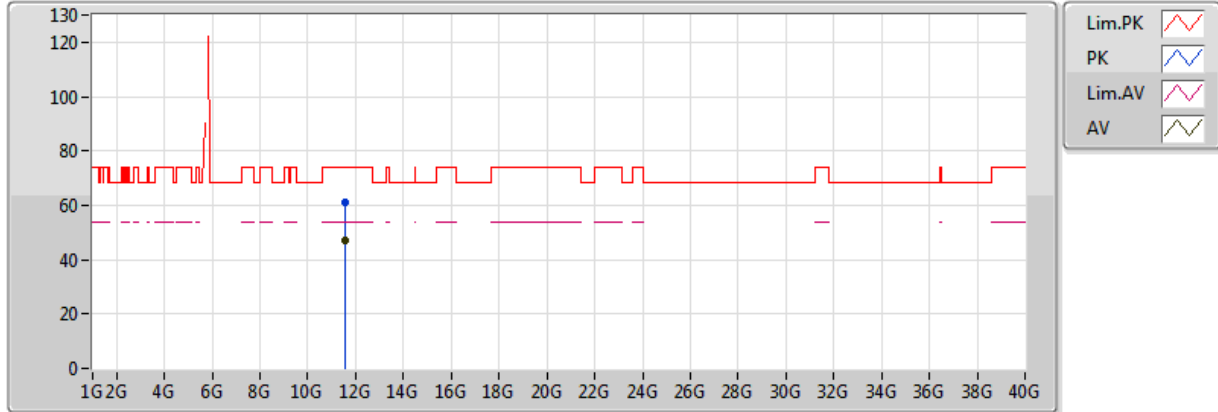
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Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6098G	61.99	68.20	-6.21	5.66	3	Horizontal	180	1.66	-
PK	5.791G	120.07	Inf	-Inf	6.33	3	Horizontal	180	1.66	-
AV	5.7862G	109.03	Inf	-Inf	6.31	3	Horizontal	180	1.66	-
PK	5.9374G	61.98	68.20	-6.22	6.85	3	Horizontal	180	1.66	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

04/05/2018



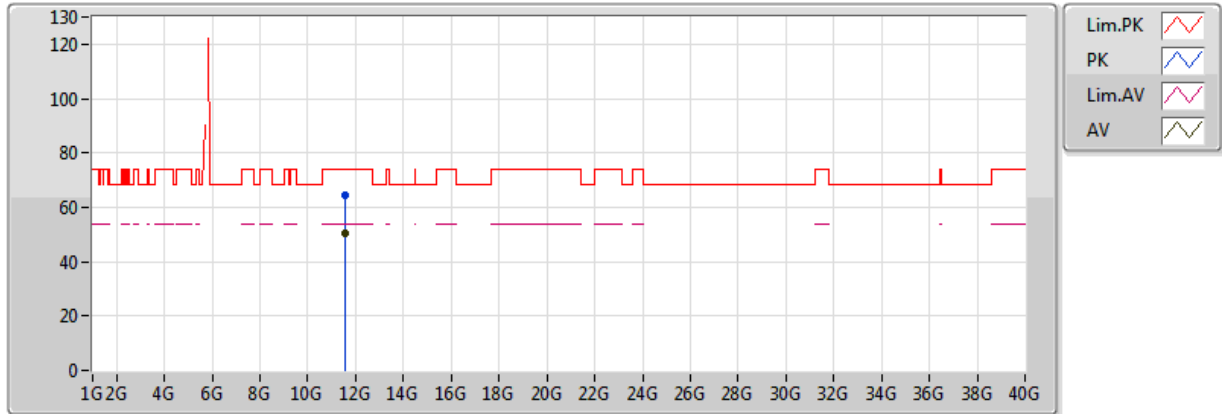
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Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.5664G	61.03	74.00	-12.97	13.41	3	Vertical	178	1.92	-
AV	11.5722G	46.93	54.00	-7.07	13.41	3	Vertical	178	1.92	-

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

04/05/2018



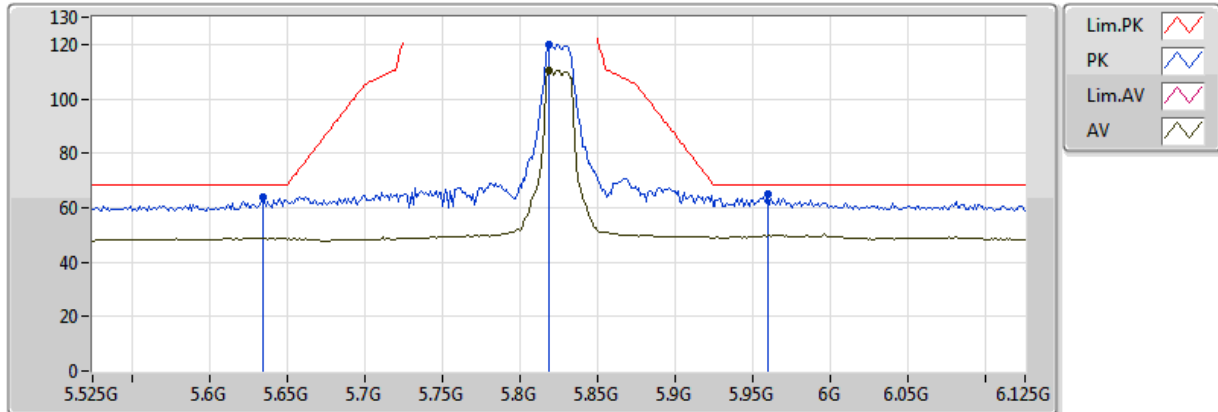
EUT Y_2TX
Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.5725G	64.35	74.00	-9.65	13.41	3	Horizontal	177	1.98	-
AV	11.5673G	50.19	54.00	-3.81	13.41	3	Horizontal	177	1.98	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

04/05/2018



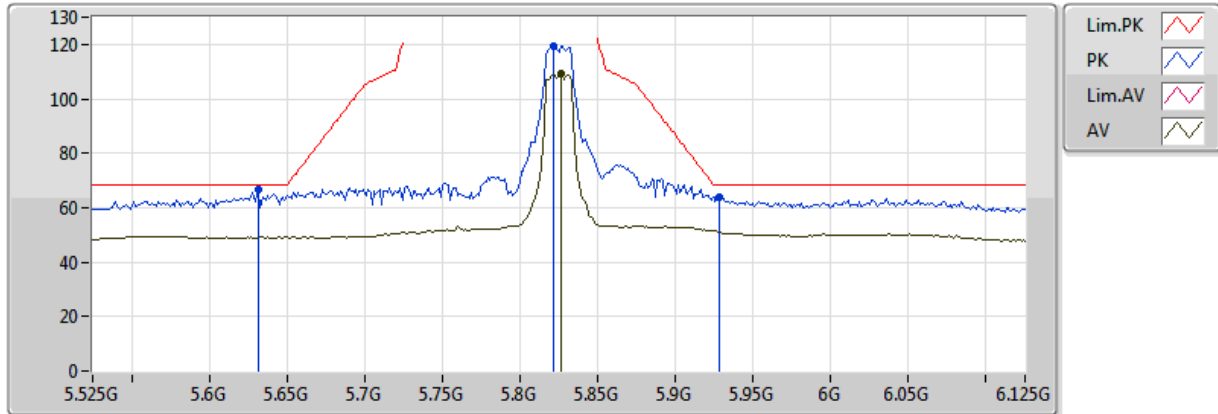
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Setting 12.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6342G	63.64	68.20	-4.56	5.75	3	Vertical	182	1.81	-
PK	5.819G	120.06	Inf	-Inf	6.43	3	Vertical	182	1.81	-
AV	5.819G	110.43	Inf	-Inf	6.43	3	Vertical	182	1.81	-
PK	5.9594G	65.03	68.20	-3.17	6.93	3	Vertical	182	1.81	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

04/05/2018



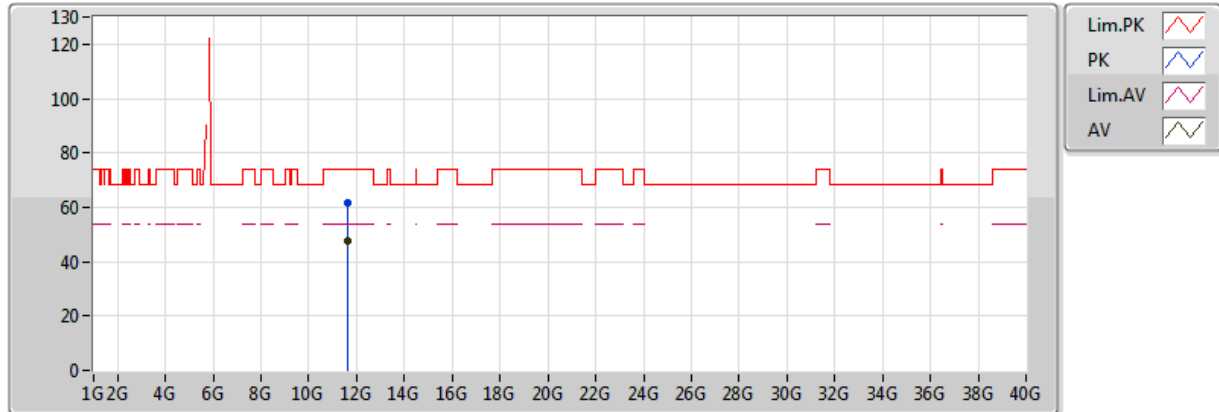
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Setting 12.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6318G	66.85	68.20	-1.35	5.75	3	Horizontal	180	1.50	-
PK	5.8214G	119.53	Inf	-Inf	6.44	3	Horizontal	180	1.50	-
AV	5.8262G	109.34	Inf	-Inf	6.45	3	Horizontal	180	1.50	-
PK	5.9282G	64.08	68.20	-4.12	6.82	3	Horizontal	180	1.50	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

04/05/2018



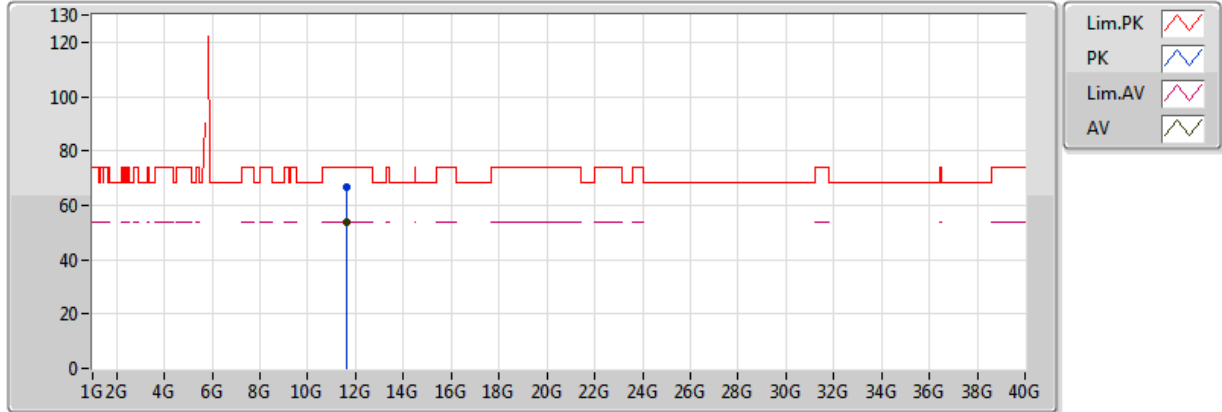
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Setting 12.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.6519G	61.46	74.00	-12.54	13.41	3	Vertical	179	1.90	-
AV	11.6518G	47.44	54.00	-6.56	13.41	3	Vertical	179	1.90	-

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

04/05/2018



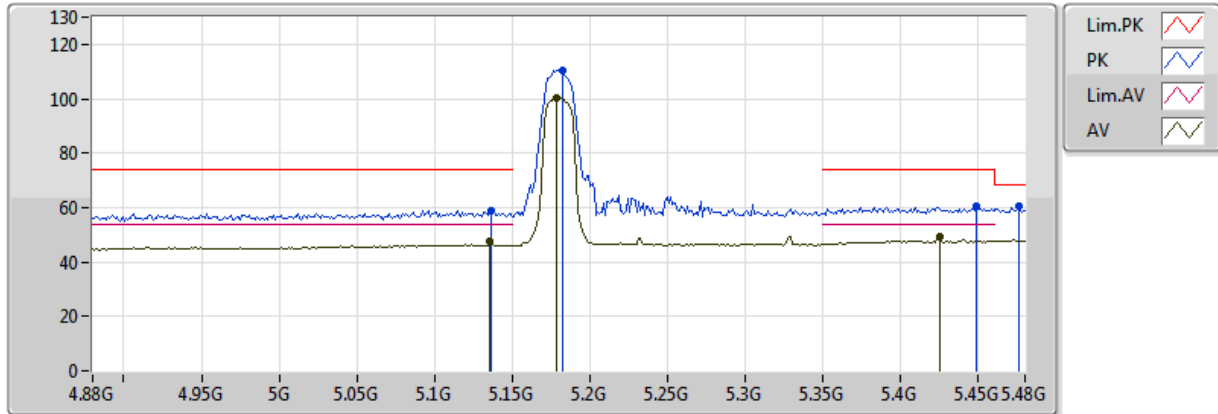
EUT Y_2TX
Setting 12.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.6524G	66.91	74.00	-7.09	13.41	3	Horizontal	174	2.01	-
AV	11.6519G	53.99	54.00	-0.01	13.41	3	Horizontal	174	2.01	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

07/05/2018



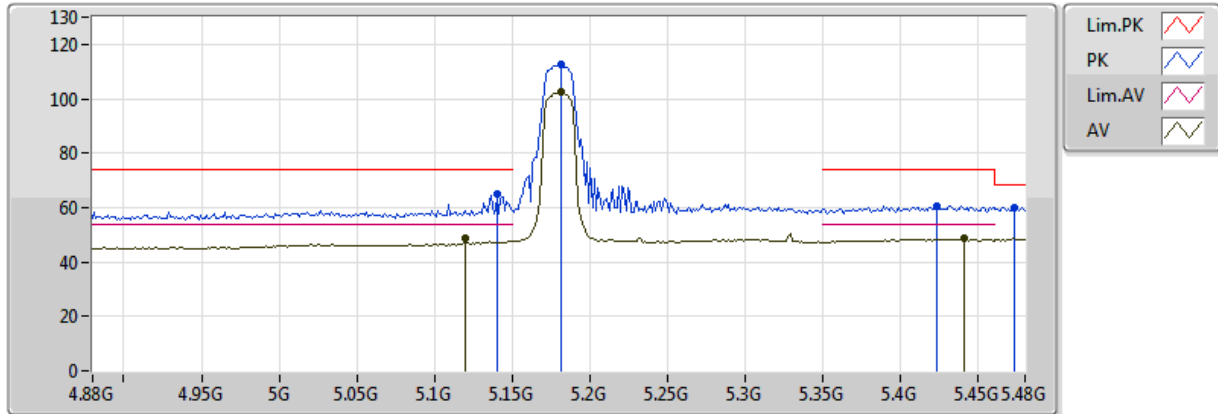
EUT Y_2TX
Setting 4.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1368G	59.08	74.00	-14.92	4.62	3	Vertical	180	1.97	-
AV	5.1356G	47.82	54.00	-6.18	4.62	3	Vertical	180	1.97	-
PK	5.1824G	110.56	Inf	-Inf	4.75	3	Vertical	180	1.97	-
AV	5.1788G	100.34	Inf	-Inf	4.74	3	Vertical	180	1.97	-
PK	5.4488G	60.68	74.00	-13.32	5.28	3	Vertical	180	1.97	-
AV	5.4248G	49.49	54.00	-4.51	5.25	3	Vertical	180	1.97	-
PK	5.4764G	60.63	68.20	-7.57	5.32	3	Vertical	180	1.97	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

07/05/2018



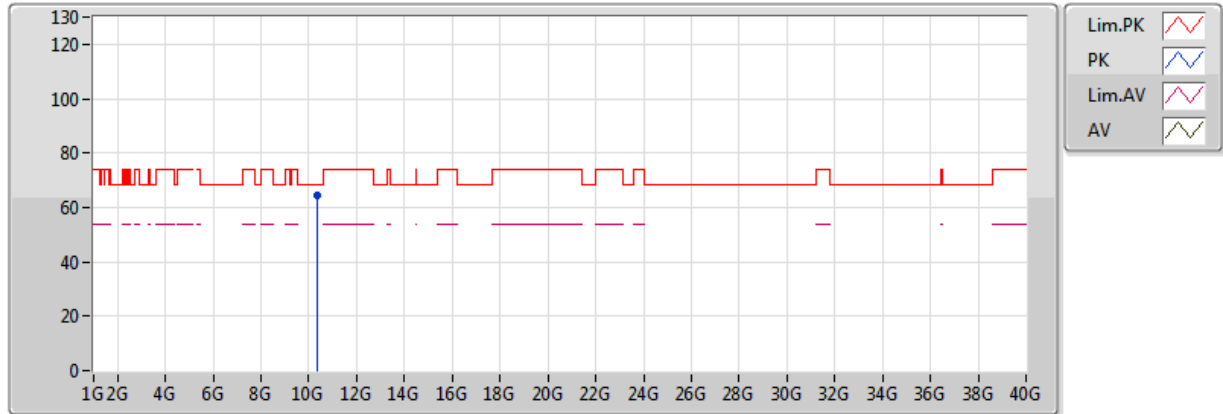
EUT Y_2TX
Setting 4.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1404G	65.02	74.00	-8.98	4.62	3	Horizontal	181	1.96	-
AV	5.12G	48.87	54.00	-5.13	4.56	3	Horizontal	181	1.96	-
PK	5.1812G	112.85	Inf	-Inf	4.75	3	Horizontal	181	1.96	-
AV	5.1812G	102.41	Inf	-Inf	4.75	3	Horizontal	181	1.96	-
PK	5.4236G	60.76	74.00	-13.24	5.24	3	Horizontal	181	1.96	-
AV	5.4404G	49.00	54.00	-5.00	5.27	3	Horizontal	181	1.96	-
PK	5.4728G	60.07	68.20	-8.13	5.32	3	Horizontal	181	1.96	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

07/05/2018



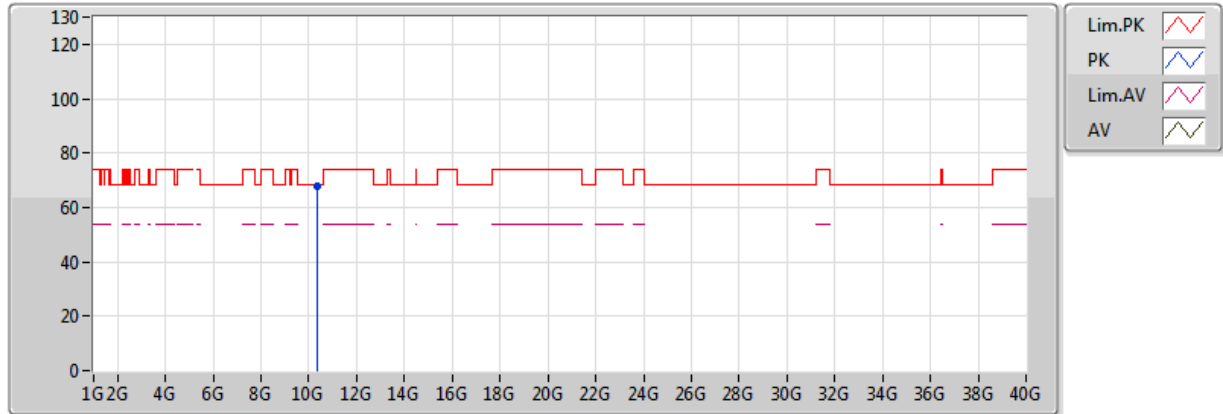
EUT Y_2TX
Setting 4.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.366G	64.52	68.20	-3.68	12.68	3	Vertical	180	1.92	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

07/05/2018



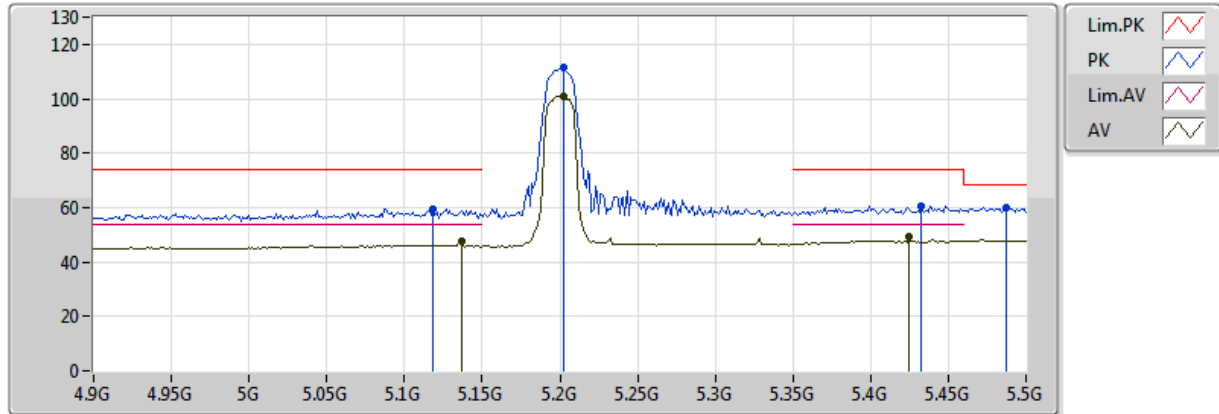
EUT Y_2TX
Setting 4.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3668G	67.89	68.20	-0.31	12.68	3	Horizontal	173	2.11	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/05/2018



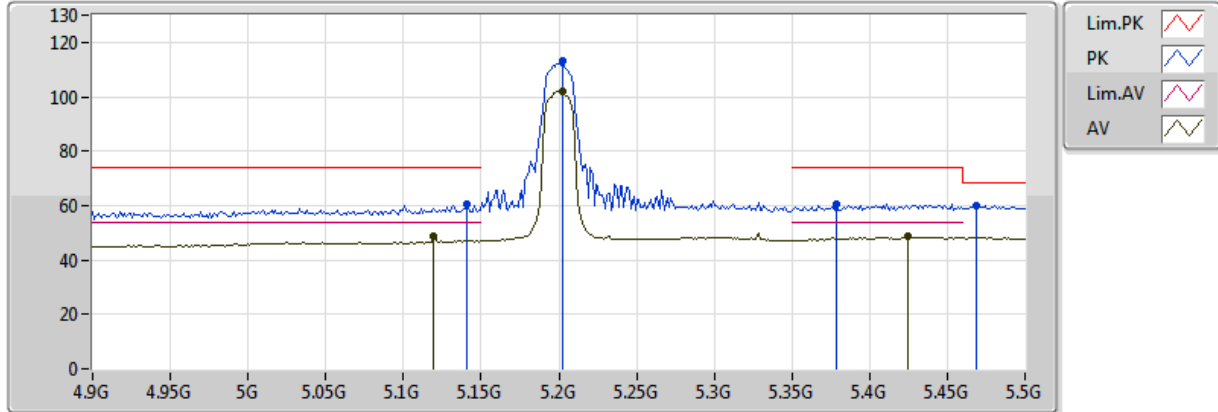
EUT Y_2TX
Setting 5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1184G	59.62	74.00	-14.38	4.56	3	Vertical	181	1.97	-
AV	5.1364G	47.68	54.00	-6.32	4.62	3	Vertical	181	1.97	-
PK	5.2024G	111.60	Inf	-Inf	4.81	3	Vertical	181	1.97	-
AV	5.2024G	100.98	Inf	-Inf	4.81	3	Vertical	181	1.97	-
PK	5.4328G	60.54	74.00	-13.46	5.26	3	Vertical	181	1.97	-
AV	5.4244G	49.46	54.00	-4.54	5.25	3	Vertical	181	1.97	-
PK	5.4868G	59.98	68.20	-8.22	5.33	3	Vertical	181	1.97	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/05/2018



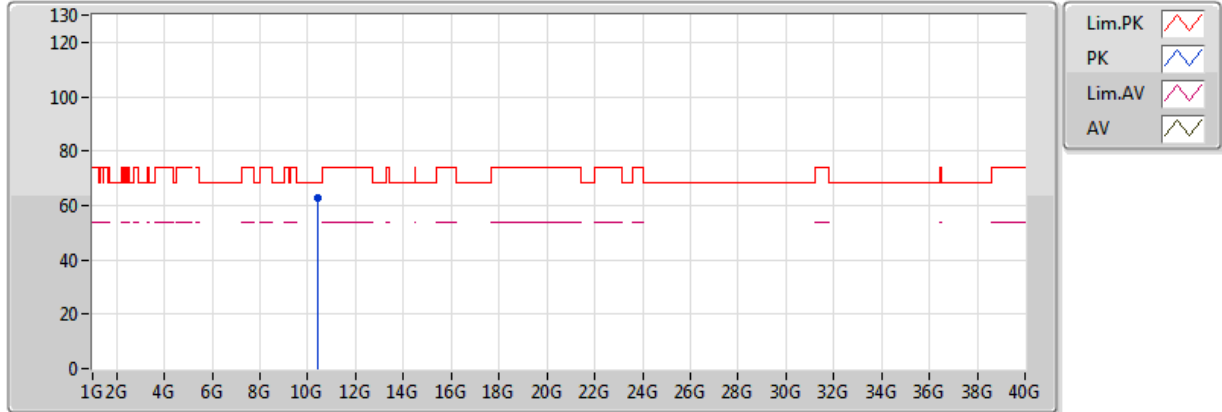
EUT Y_2TX
Setting 5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1412G	60.32	74.00	-13.68	4.64	3	Horizontal	182	1.97	-
AV	5.1196G	48.92	54.00	-5.08	4.56	3	Horizontal	182	1.97	-
PK	5.2024G	112.92	Inf	-Inf	4.81	3	Horizontal	182	1.97	-
AV	5.2024G	101.83	Inf	-Inf	4.81	3	Horizontal	182	1.97	-
PK	5.3788G	60.40	74.00	-13.60	5.17	3	Horizontal	182	1.97	-
PK	5.4688G	60.03	68.20	-8.17	5.31	3	Horizontal	182	1.97	-
AV	5.4244G	48.54	54.00	-5.46	5.25	3	Horizontal	182	1.97	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/05/2018



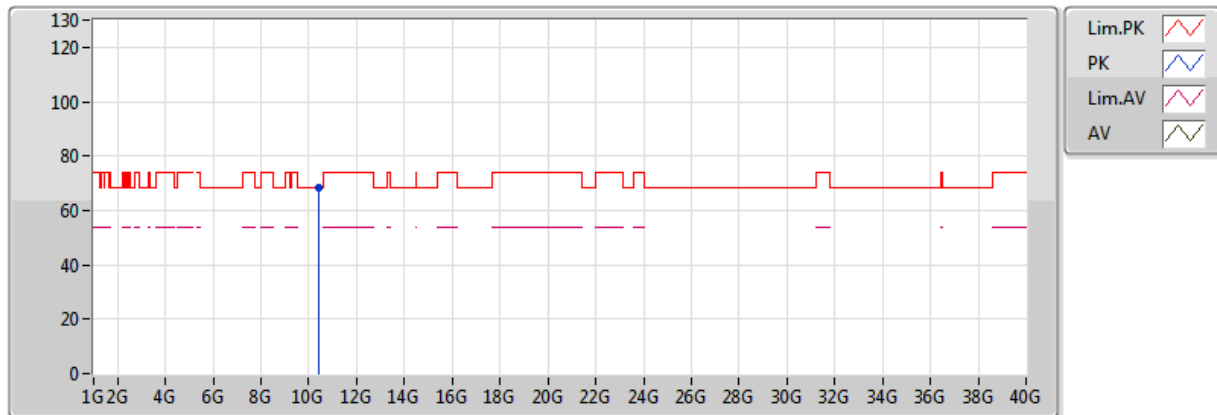
EUT Y_2TX
Setting 5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3905G	62.93	68.20	-5.27	12.71	3	Vertical	183	1.93	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

07/05/2018



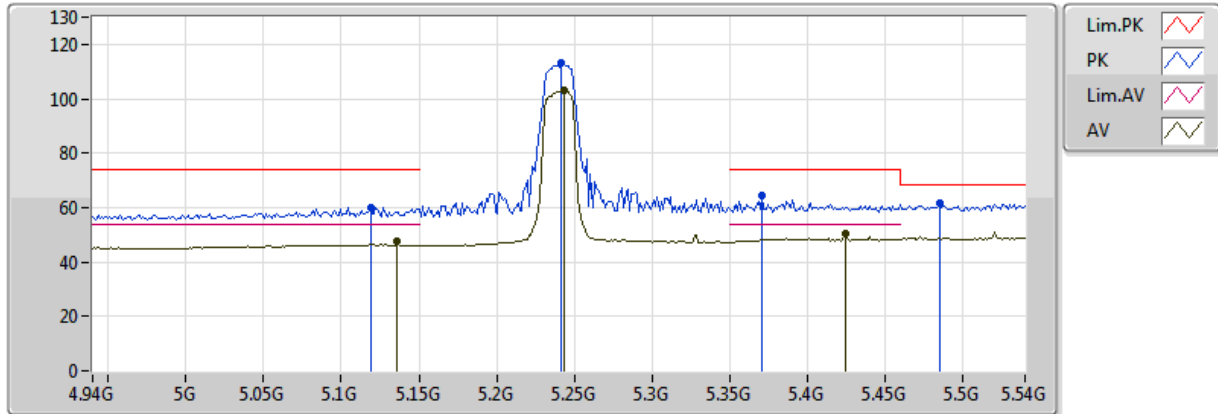
EUT Y_2TX
Setting 5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3922G	68.18	68.20	-0.02	12.71	3	Horizontal	173	2.05	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/05/2018



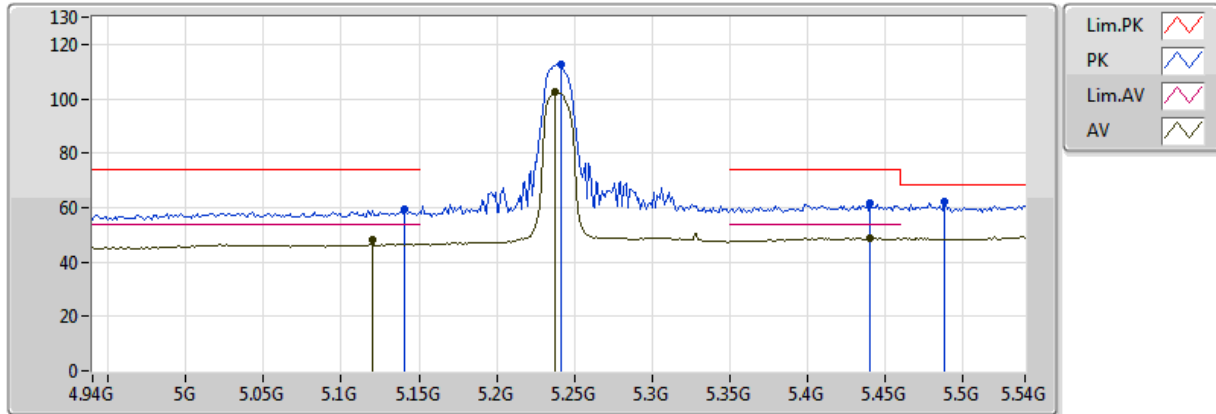
EUT Y_2TX
Setting 5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1188G	60.03	74.00	-13.97	4.56	3	Vertical	181	1.94	-
AV	5.1356G	47.73	54.00	-6.27	4.62	3	Vertical	181	1.94	-
PK	5.2412G	113.29	Inf	-Inf	4.89	3	Vertical	181	1.94	-
AV	5.2436G	103.04	Inf	-Inf	4.90	3	Vertical	181	1.94	-
PK	5.3708G	64.47	74.00	-9.53	5.15	3	Vertical	181	1.94	-
AV	5.4248G	50.28	54.00	-3.72	5.25	3	Vertical	181	1.94	-
PK	5.4848G	61.77	68.20	-6.43	5.33	3	Vertical	181	1.94	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/05/2018



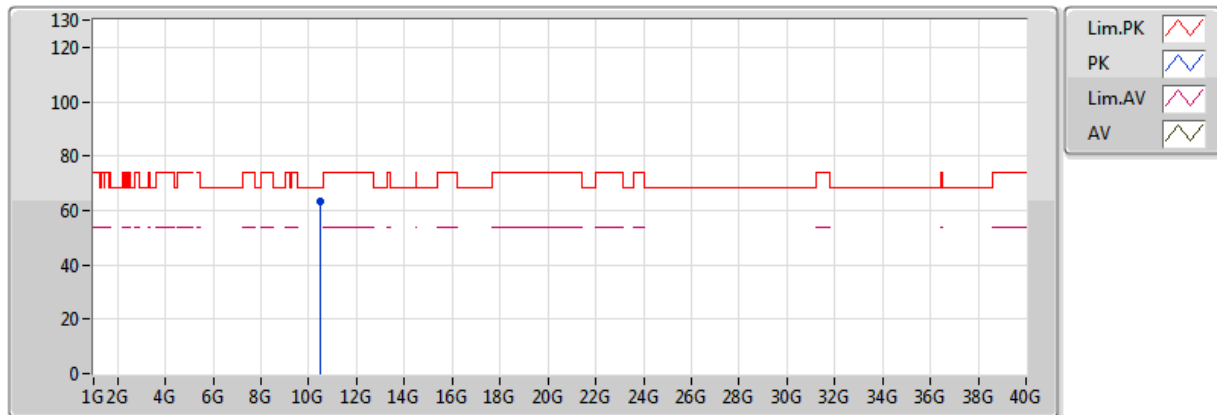
EUT Y_2TX
Setting 5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1404G	59.20	74.00	-14.80	4.62	3	Horizontal	182	1.99	-
AV	5.12G	48.09	54.00	-5.91	4.56	3	Horizontal	182	1.99	-
PK	5.2412G	112.59	Inf	-Inf	4.89	3	Horizontal	182	1.99	-
AV	5.2376G	102.57	Inf	-Inf	4.88	3	Horizontal	182	1.99	-
PK	5.4404G	61.43	74.00	-12.57	5.27	3	Horizontal	182	1.99	-
AV	5.4404G	48.91	54.00	-5.09	5.27	3	Horizontal	182	1.99	-
PK	5.4884G	62.24	68.20	-5.96	5.34	3	Horizontal	182	1.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/05/2018



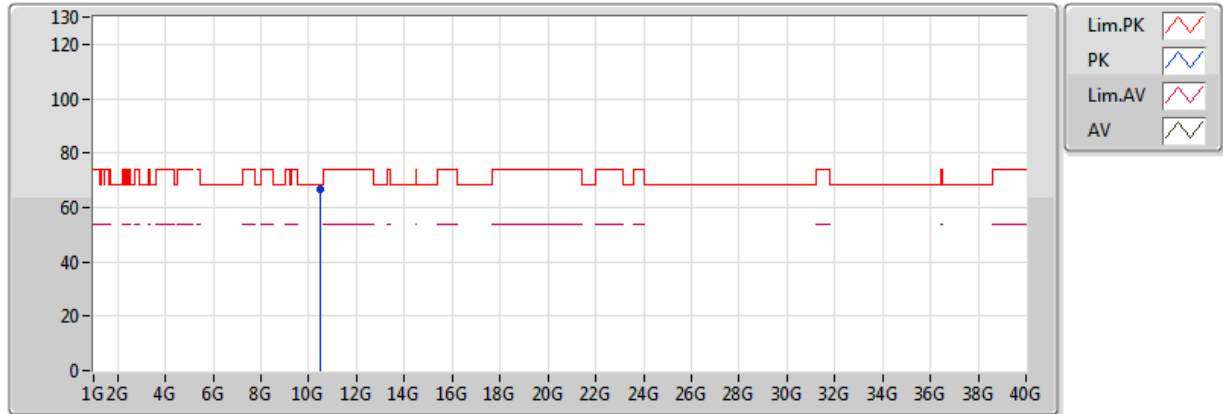
EUT Y_2TX
Setting 5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.487G	63.28	68.20	-4.92	12.82	3	Vertical	180	1.89	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

07/05/2018



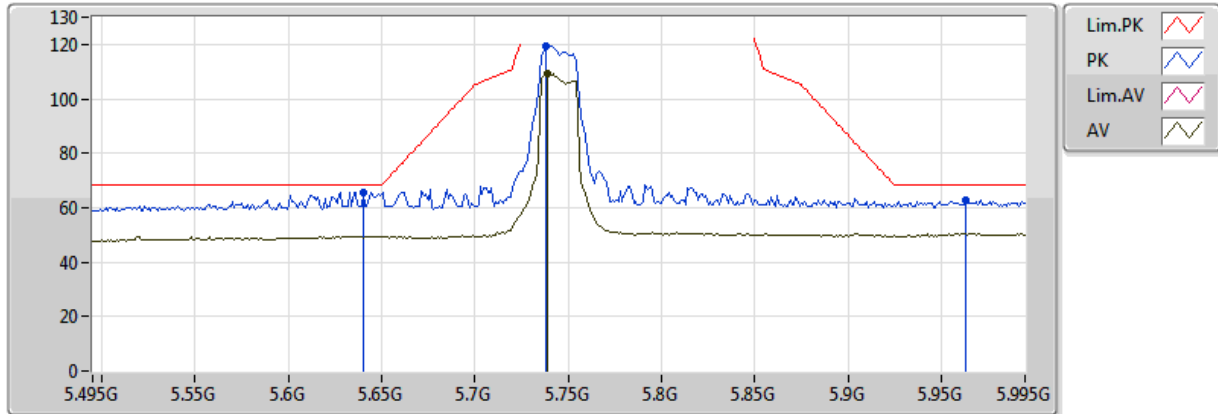
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Setting 5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.4869G	66.41	68.20	-1.79	12.82	3	Horizontal	185	2.08	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

04/05/2018



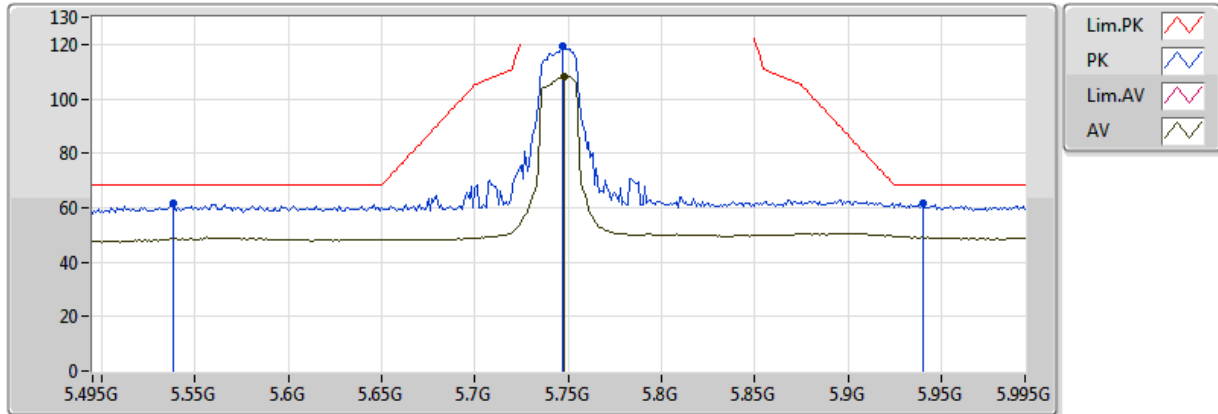
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.64G	65.81	68.20	-2.39	5.78	3	Vertical	181	1.87	-
PK	5.738G	119.37	Inf	-Inf	6.14	3	Vertical	181	1.87	-
AV	5.739G	109.35	Inf	-Inf	6.14	3	Vertical	181	1.87	-
PK	5.963G	62.81	68.20	-5.39	6.95	3	Vertical	181	1.87	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

04/05/2018



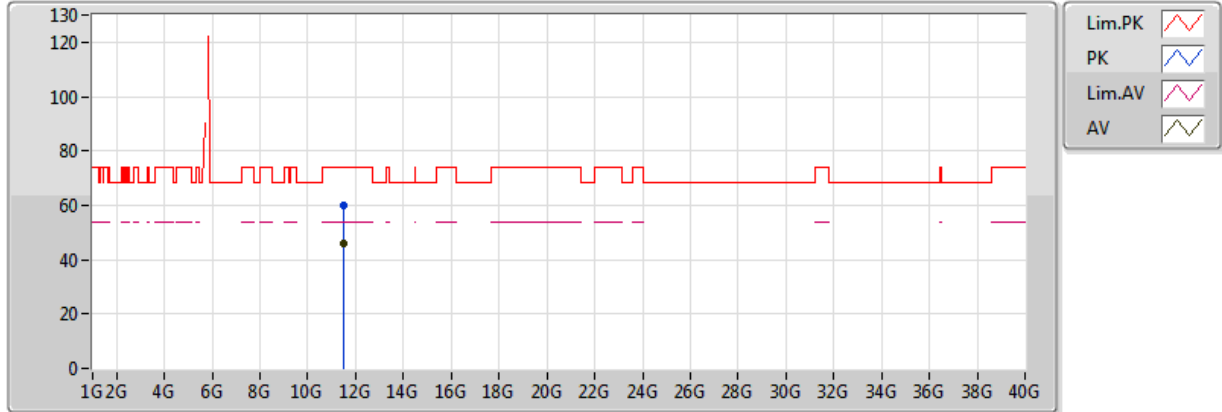
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Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.538G	61.36	68.20	-6.84	5.46	3	Horizontal	177	1.50	-
PK	5.747G	119.23	Inf	-Inf	6.17	3	Horizontal	177	1.50	-
AV	5.748G	108.37	Inf	-Inf	6.17	3	Horizontal	177	1.50	-
PK	5.94G	61.51	68.20	-6.69	6.87	3	Horizontal	177	1.50	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

04/05/2018



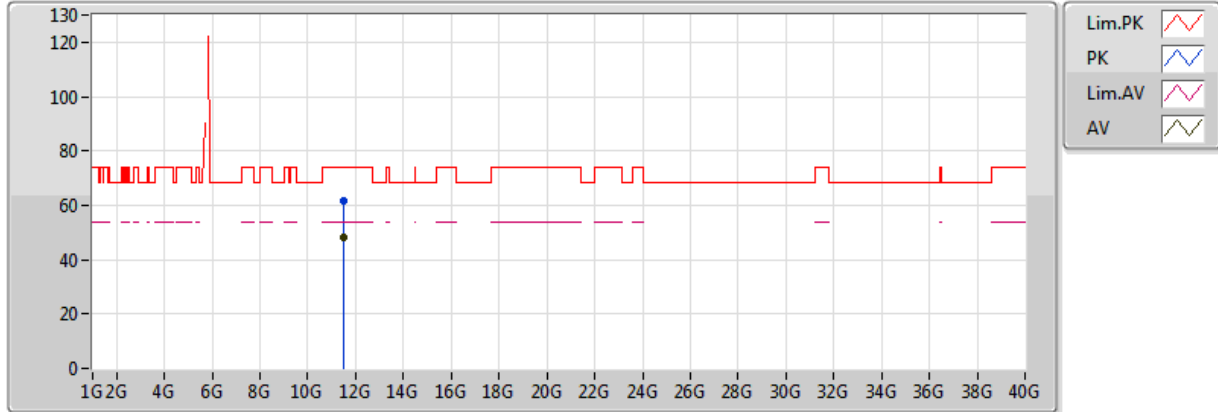
EUT Y_2TX
Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.4944G	59.81	74.00	-14.19	13.41	3	Vertical	181	1.91	-
AV	11.4936G	46.06	54.00	-7.94	13.41	3	Vertical	181	1.91	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

04/05/2018



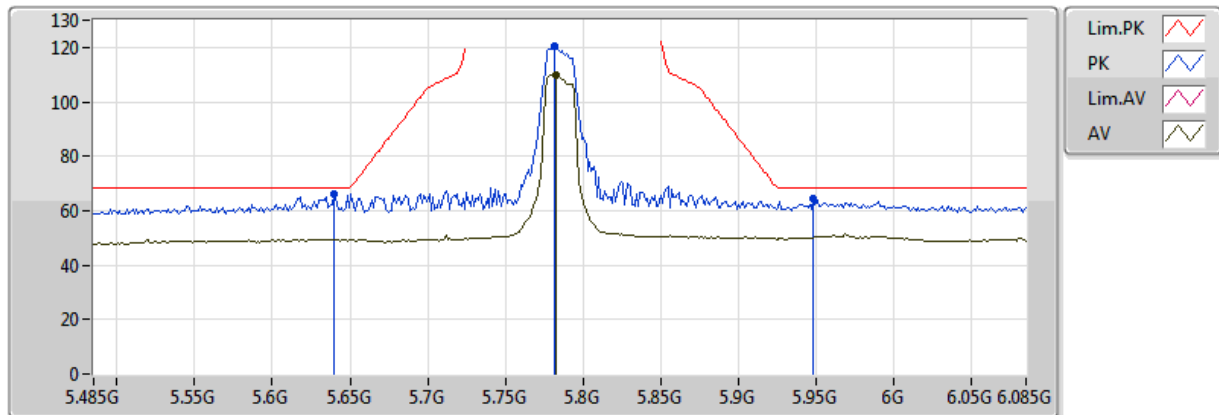
EUT Y_2TX
Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.4948G	61.46	74.00	-12.54	13.41	3	Horizontal	177	1.92	-
AV	11.4936G	48.06	54.00	-5.94	13.41	3	Horizontal	177	1.92	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

04/05/2018



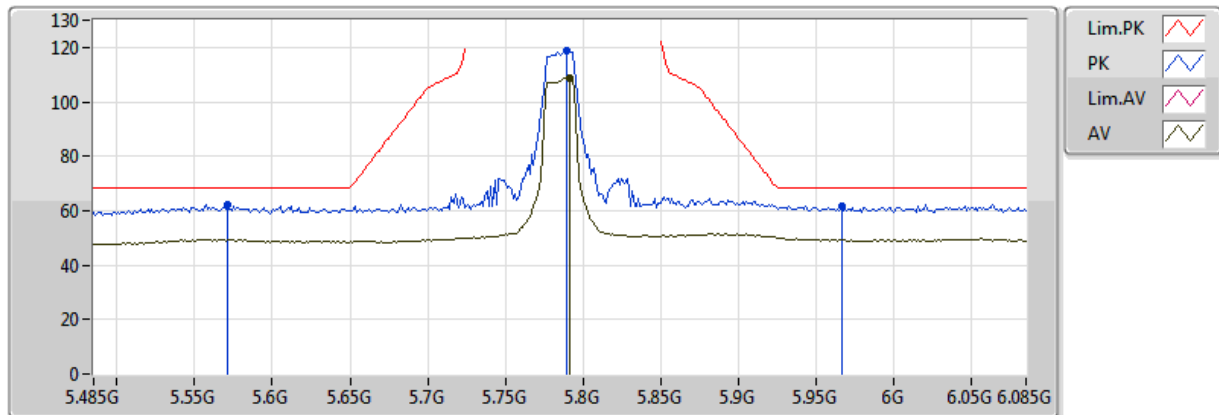
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6398G	66.12	68.20	-2.08	5.78	3	Vertical	178	1.85	-
PK	5.7814G	120.43	Inf	-Inf	6.29	3	Vertical	178	1.85	-
AV	5.7826G	110.06	Inf	-Inf	6.30	3	Vertical	178	1.85	-
PK	5.9482G	64.22	68.20	-3.98	6.89	3	Vertical	178	1.85	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

04/05/2018



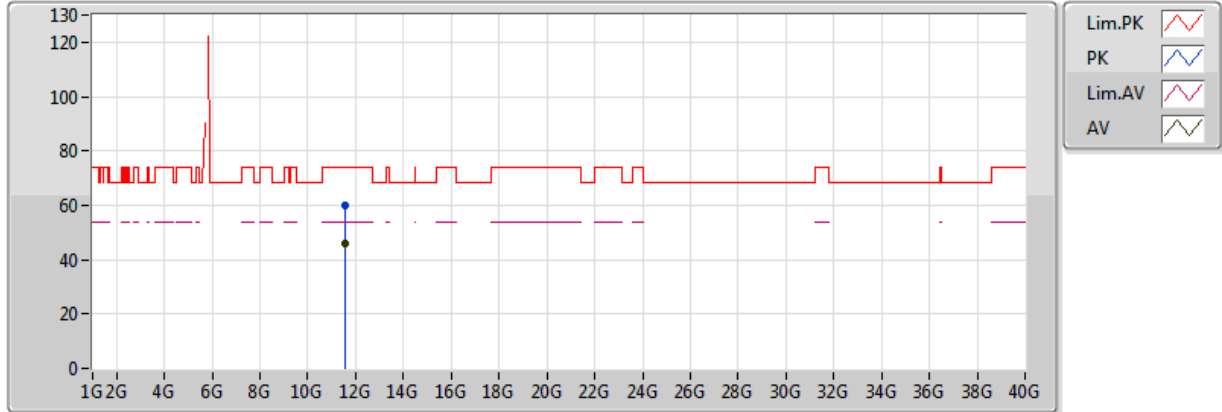
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Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.5714G	62.10	68.20	-6.10	5.55	3	Horizontal	177	1.67	-
PK	5.7898G	118.68	Inf	-Inf	6.32	3	Horizontal	177	1.67	-
AV	5.791G	108.72	Inf	-Inf	6.33	3	Horizontal	177	1.67	-
PK	5.9662G	61.54	68.20	-6.66	6.96	3	Horizontal	177	1.67	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

04/05/2018



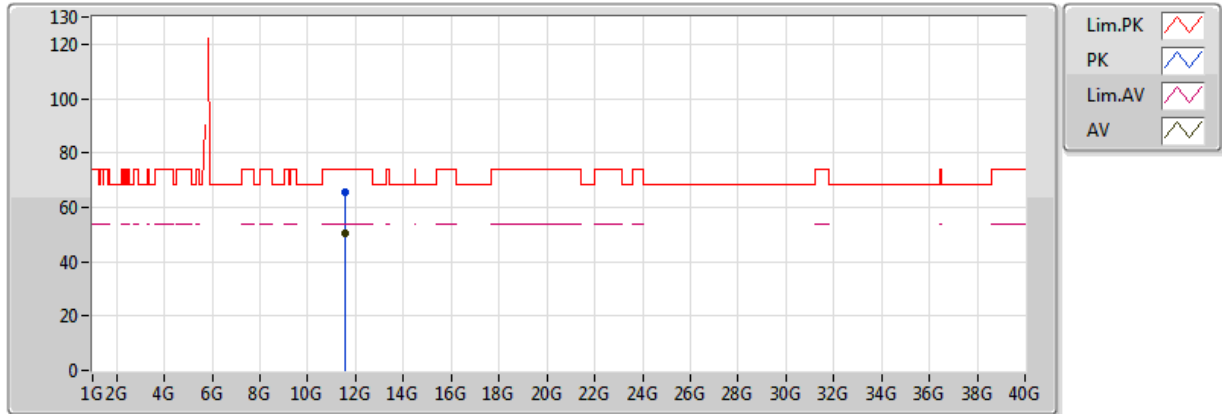
EUT Y_2TX
Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.5762G	59.76	74.00	-14.24	13.41	3	Vertical	178	1.94	-
AV	11.5735G	45.69	54.00	-8.31	13.41	3	Vertical	178	1.94	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

04/05/2018



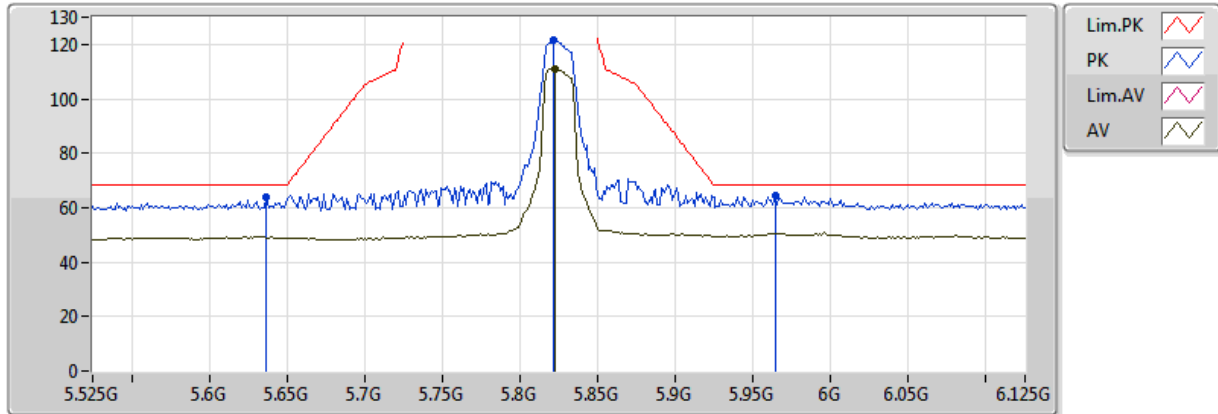
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Setting 11.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.5587G	65.36	74.00	-8.64	13.41	3	Horizontal	176	1.99	-
AV	11.5759G	50.34	54.00	-3.66	13.41	3	Horizontal	176	1.99	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

04/05/2018



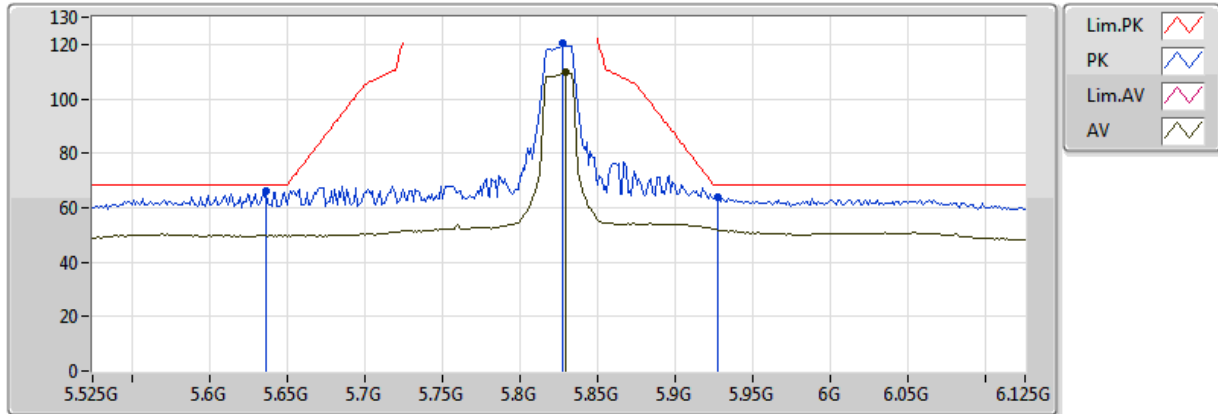
EUT Y_2TX
Setting 12.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6366G	63.69	68.20	-4.51	5.76	3	Vertical	181	1.80	-
PK	5.8214G	121.80	Inf	-Inf	6.44	3	Vertical	181	1.80	-
AV	5.8226G	111.22	Inf	-Inf	6.44	3	Vertical	181	1.80	-
PK	5.9642G	64.51	68.20	-3.69	6.95	3	Vertical	181	1.80	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

04/05/2018



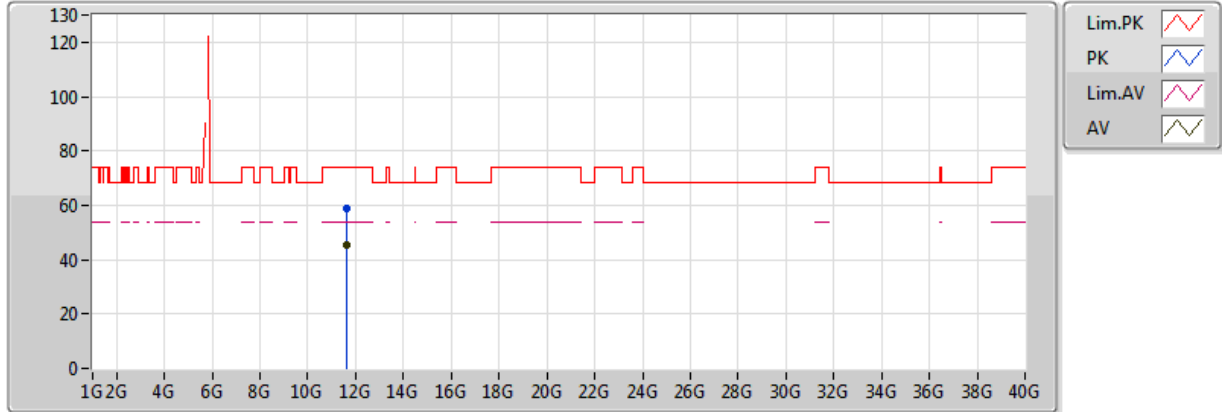
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Setting 12.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6366G	66.30	68.20	-1.90	5.76	3	Horizontal	179	1.62	-
PK	5.8274G	120.27	Inf	-Inf	6.46	3	Horizontal	179	1.62	-
AV	5.8298G	109.64	Inf	-Inf	6.47	3	Horizontal	179	1.62	-
PK	5.927G	63.70	68.20	-4.50	6.82	3	Horizontal	179	1.62	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

04/05/2018



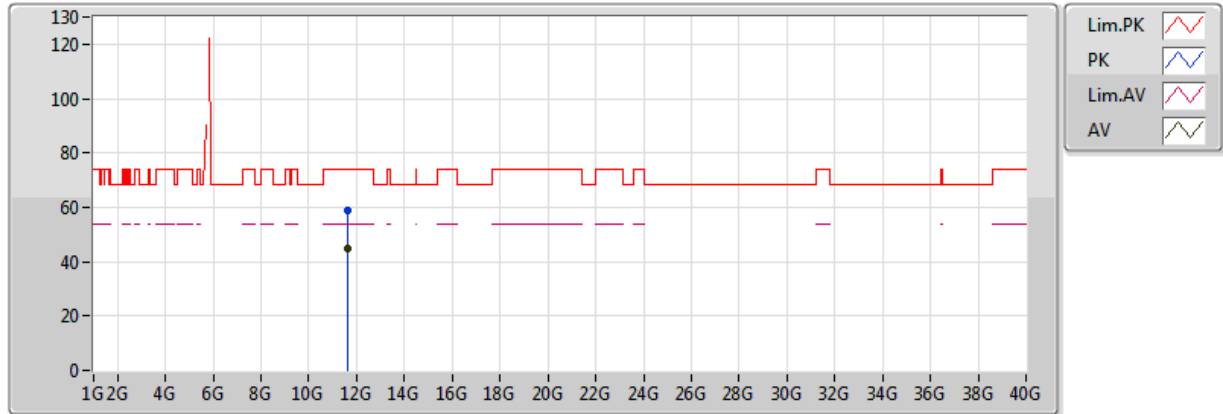
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Setting 12.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.6528G	58.99	74.00	-15.01	13.41	3	Vertical	182	1.89	-
AV	11.6526G	45.21	54.00	-8.79	13.41	3	Vertical	182	1.89	-

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

04/05/2018



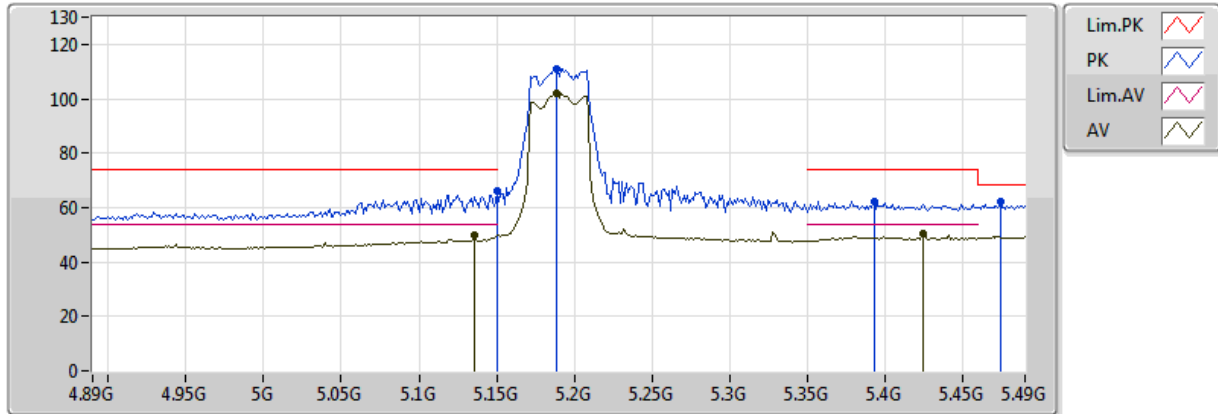
EUT Y_2TX
Setting 12.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.6528G	58.92	74.00	-15.08	13.41	3	Horizontal	181	1.50	-
AV	11.6539G	45.03	54.00	-8.97	13.41	3	Horizontal	181	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/05/2018



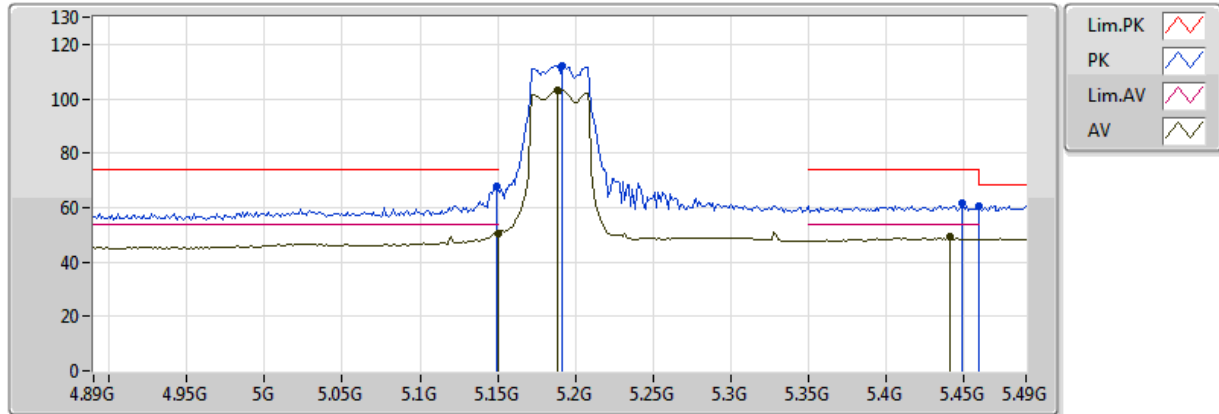
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Setting 6.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.149995G	66.06	74.00	-7.94	4.65	3	Vertical	180	1.97	-
AV	5.136G	50.14	54.00	-3.86	4.62	3	Vertical	180	1.97	-
PK	5.1888G	110.91	Inf	-Inf	4.77	3	Vertical	180	1.97	-
AV	5.1888G	101.76	Inf	-Inf	4.77	3	Vertical	180	1.97	-
PK	5.3928G	62.42	74.00	-11.58	5.20	3	Vertical	180	1.97	-
AV	5.424G	50.44	54.00	-3.56	5.25	3	Vertical	180	1.97	-
PK	5.4744G	62.02	68.20	-6.18	5.32	3	Vertical	180	1.97	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/05/2018



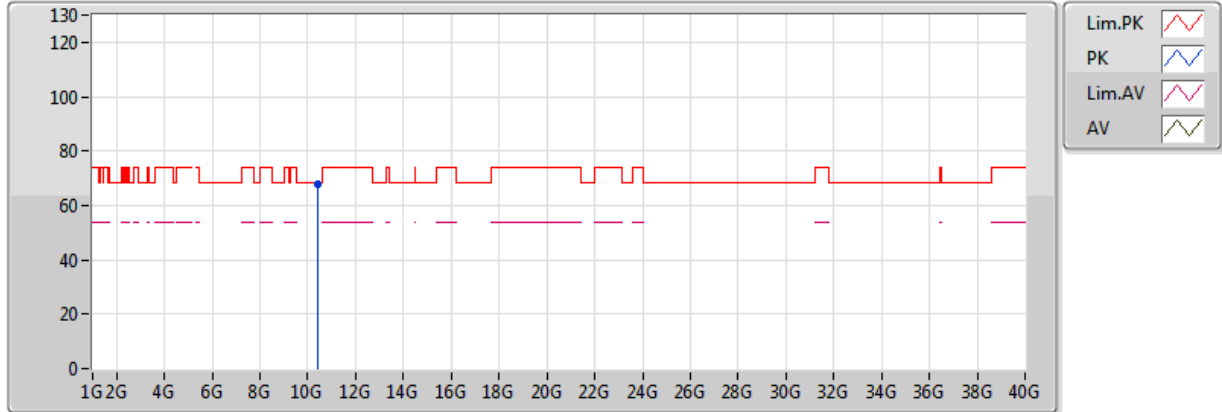
EUT Y_2TX
Setting 6.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1492G	67.65	74.00	-6.35	4.65	3	Horizontal	181	1.97	-
AV	5.149995G	50.44	54.00	-3.56	4.65	3	Horizontal	181	1.97	-
PK	5.1912G	112.31	Inf	-Inf	4.77	3	Horizontal	181	1.97	-
AV	5.1888G	103.33	Inf	-Inf	4.77	3	Horizontal	181	1.97	-
PK	5.4492G	61.42	74.00	-12.58	5.28	3	Horizontal	181	1.97	-
AV	5.4408G	49.56	54.00	-4.44	5.27	3	Horizontal	181	1.97	-
PK	5.460005G	60.51	68.20	-7.69	5.29	3	Horizontal	181	1.97	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/05/2018



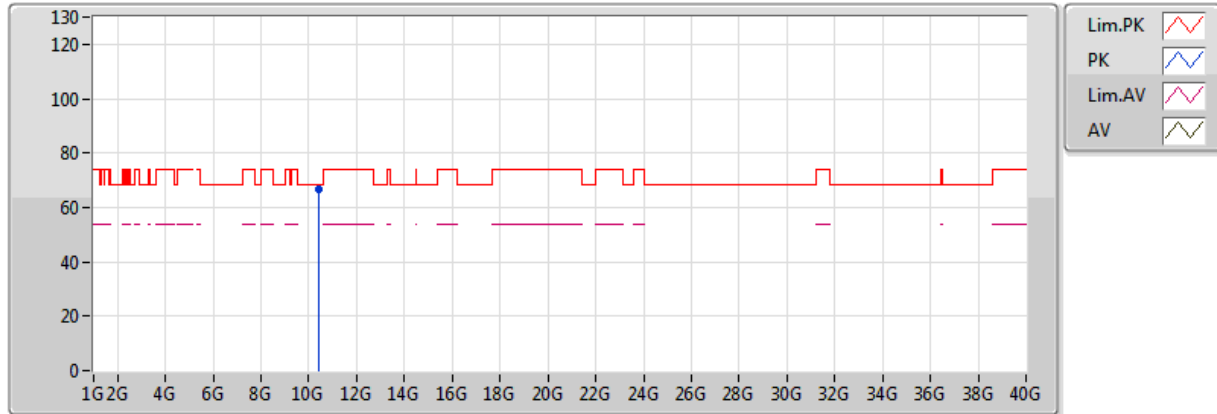
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Setting 6.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3866G	67.78	68.20	-0.42	12.71	3	Vertical	180	1.93	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

07/05/2018



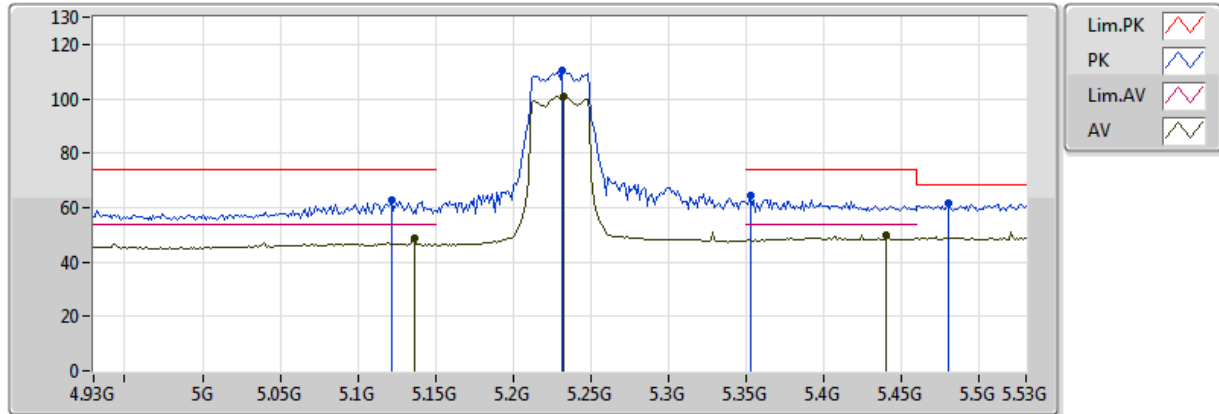
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Setting 6.5
04-M-01
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.3868G	66.78	68.20	-1.42	12.71	3	Horizontal	182	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/05/2018



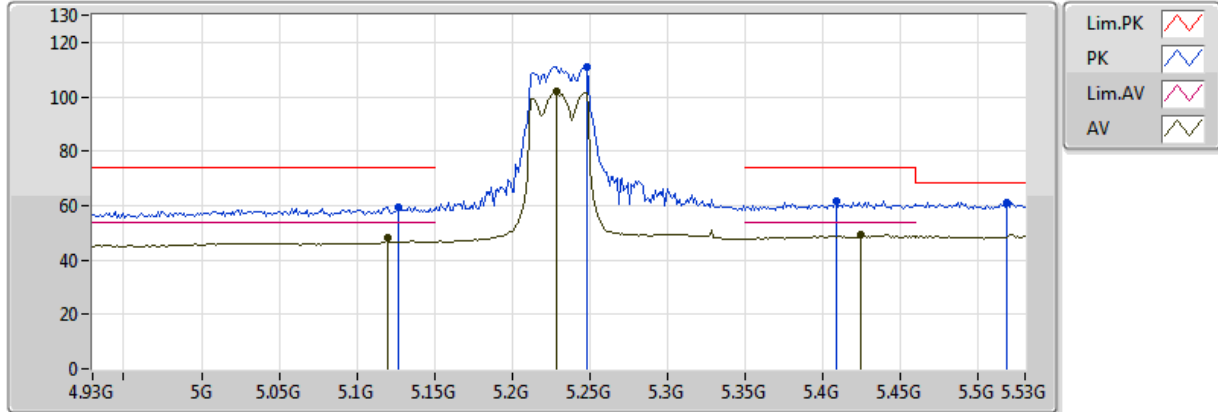
EUT Y_2TX
Setting 7
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.122G	62.49	74.00	-11.51	4.57	3	Vertical	183	1.81	-
AV	5.1364G	48.52	54.00	-5.48	4.62	3	Vertical	183	1.81	-
PK	5.2312G	110.39	Inf	-Inf	4.87	3	Vertical	183	1.81	-
AV	5.2324G	101.07	Inf	-Inf	4.87	3	Vertical	183	1.81	-
PK	5.3524G	64.22	74.00	-9.78	5.12	3	Vertical	183	1.81	-
PK	5.4796G	61.78	68.20	-6.42	5.32	3	Vertical	183	1.81	-
AV	5.44G	49.97	54.00	-4.03	5.27	3	Vertical	183	1.81	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/05/2018



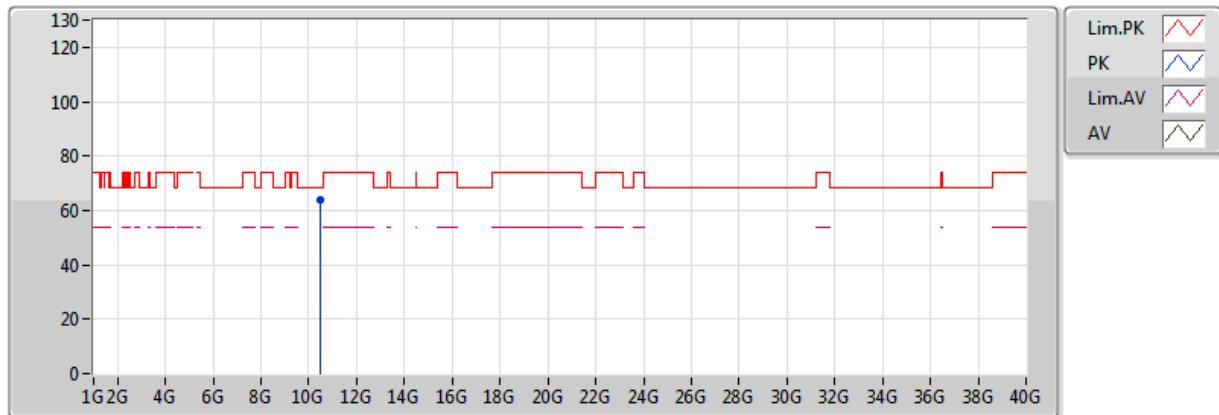
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Setting 7
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1268G	59.31	74.00	-14.69	4.59	3	Horizontal	181	1.98	-
AV	5.1196G	47.91	54.00	-6.09	4.56	3	Horizontal	181	1.98	-
PK	5.248G	111.20	Inf	-Inf	4.91	3	Horizontal	181	1.98	-
AV	5.2288G	101.99	Inf	-Inf	4.86	3	Horizontal	181	1.98	-
PK	5.4088G	61.49	74.00	-12.51	5.22	3	Horizontal	181	1.98	-
AV	5.4244G	49.17	54.00	-4.83	5.25	3	Horizontal	181	1.98	-
PK	5.518G	61.27	68.20	-6.93	5.40	3	Horizontal	181	1.98	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/05/2018



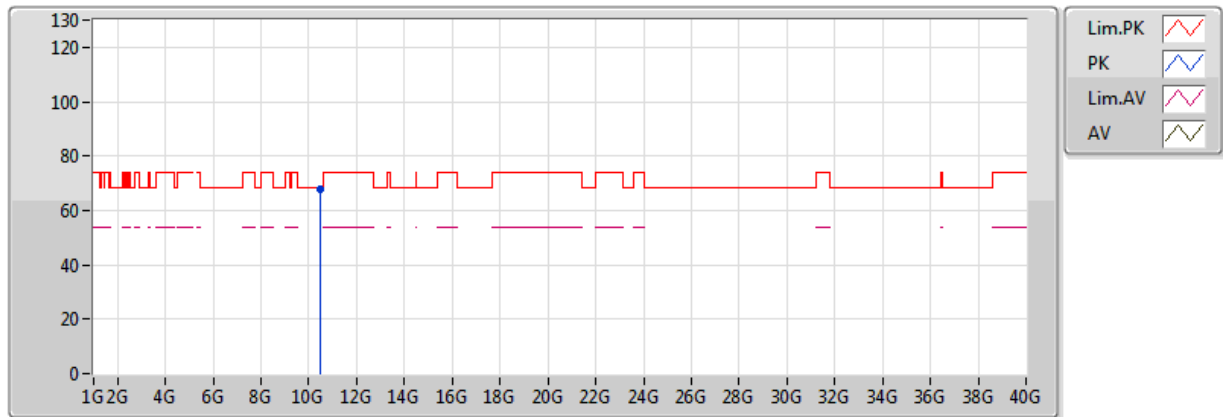
EUT Y_2TX
Setting 7
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.4664G	64.13	68.20	-4.07	12.80	3	Vertical	182	1.90	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

07/05/2018



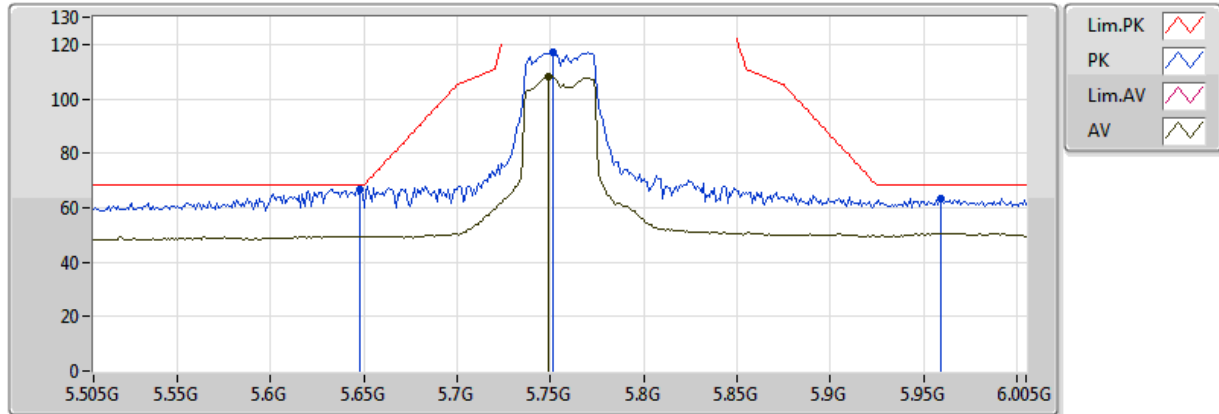
EUT Y_2TX
Setting 7
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.46516G	67.83	68.20	-0.37	12.80	3	Horizontal	185	2.08	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

04/05/2018



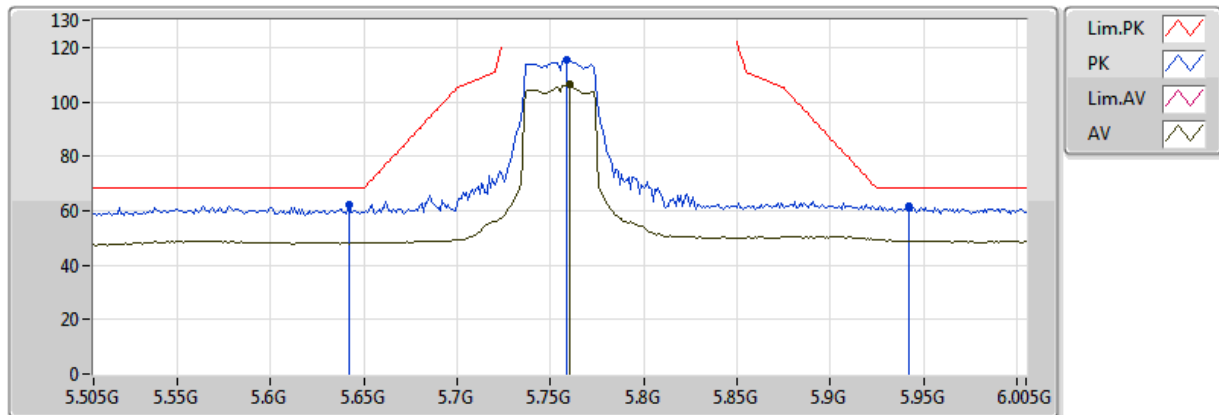
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.648G	66.88	68.20	-1.32	5.80	3	Vertical	179	1.86	-
PK	5.751G	116.95	Inf	-Inf	6.18	3	Vertical	179	1.86	-
AV	5.749G	108.03	Inf	-Inf	6.18	3	Vertical	179	1.86	-
PK	5.959G	63.32	68.20	-4.88	6.93	3	Vertical	179	1.86	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

04/05/2018



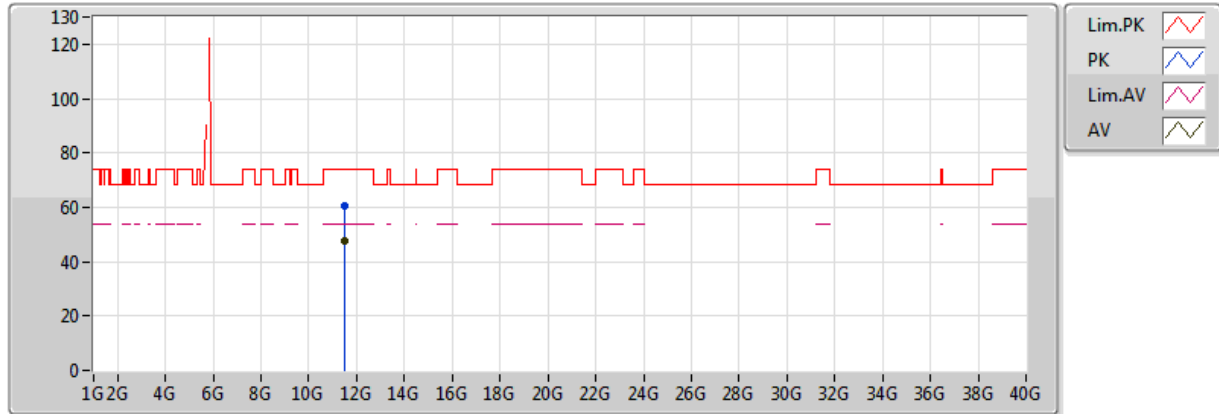
EUT Y_2TX
Setting 11.5
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.642G	62.05	68.20	-6.15	5.79	3	Horizontal	180	1.50	-
PK	5.759G	115.66	Inf	-Inf	6.21	3	Horizontal	180	1.50	-
AV	5.76G	106.24	Inf	-Inf	6.22	3	Horizontal	180	1.50	-
PK	5.942G	61.68	68.20	-6.52	6.88	3	Horizontal	180	1.50	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

04/05/2018



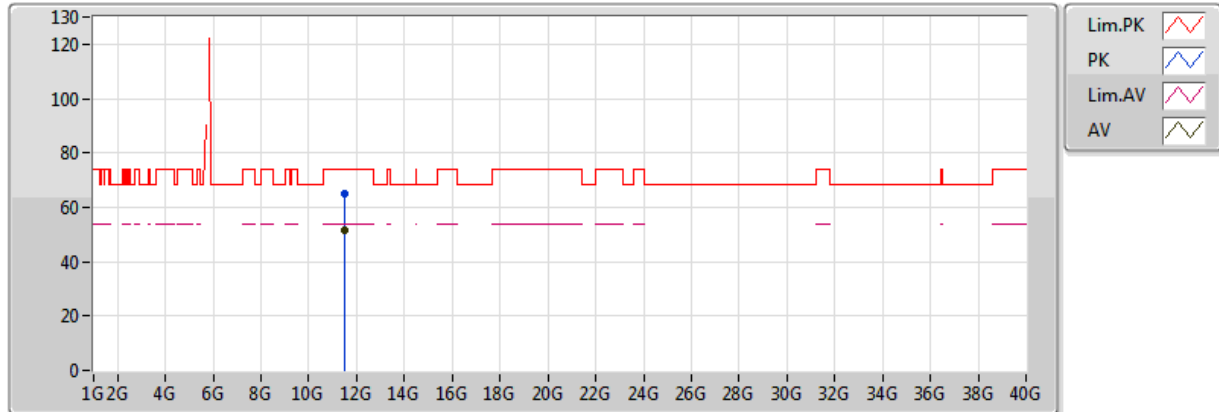
EUT Y_2TX
Setting 11.5
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.5064G	60.58	74.00	-13.42	13.41	3	Vertical	180	1.91	-
AV	11.51576G	47.60	54.00	-6.40	13.41	3	Vertical	180	1.91	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

04/05/2018



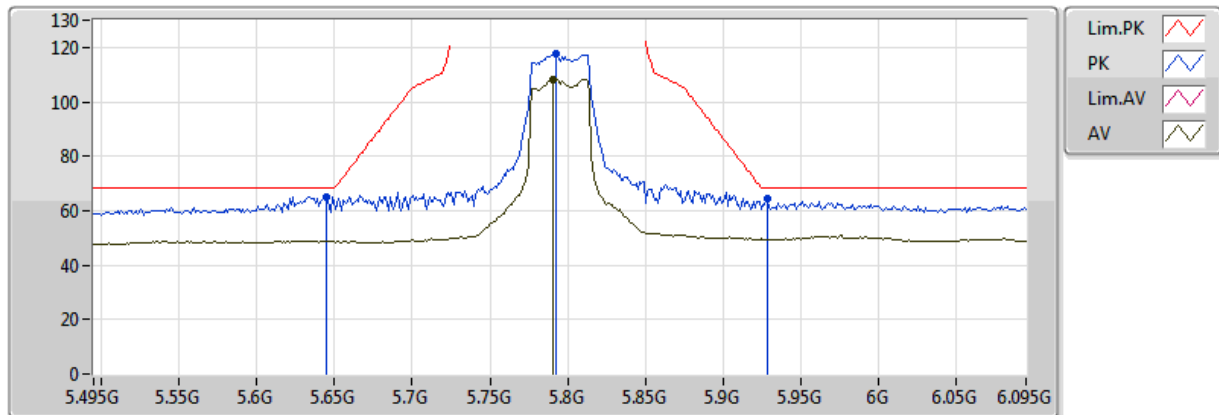
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Setting 11.5
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.51632G	65.03	74.00	-8.97	13.41	3	Horizontal	174	2.01	-
AV	11.51584G	51.35	54.00	-2.65	13.41	3	Horizontal	174	2.01	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

04/05/2018



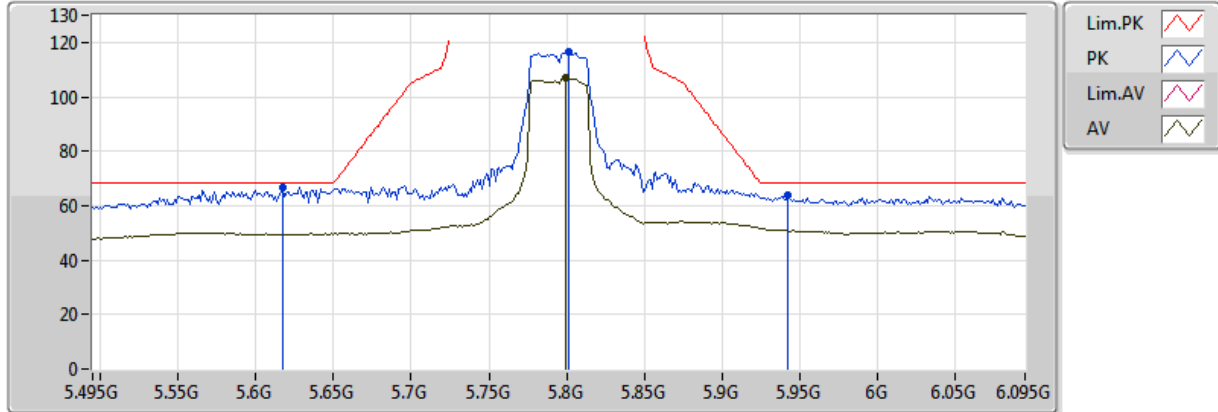
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Setting 12
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.645G	65.19	68.20	-3.01	5.79	3	Vertical	180	1.75	-
PK	5.7926G	117.53	Inf	-Inf	6.33	3	Vertical	180	1.75	-
AV	5.7902G	108.27	Inf	-Inf	6.32	3	Vertical	180	1.75	-
PK	5.9282G	64.41	68.20	-3.79	6.82	3	Vertical	180	1.75	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

04/05/2018



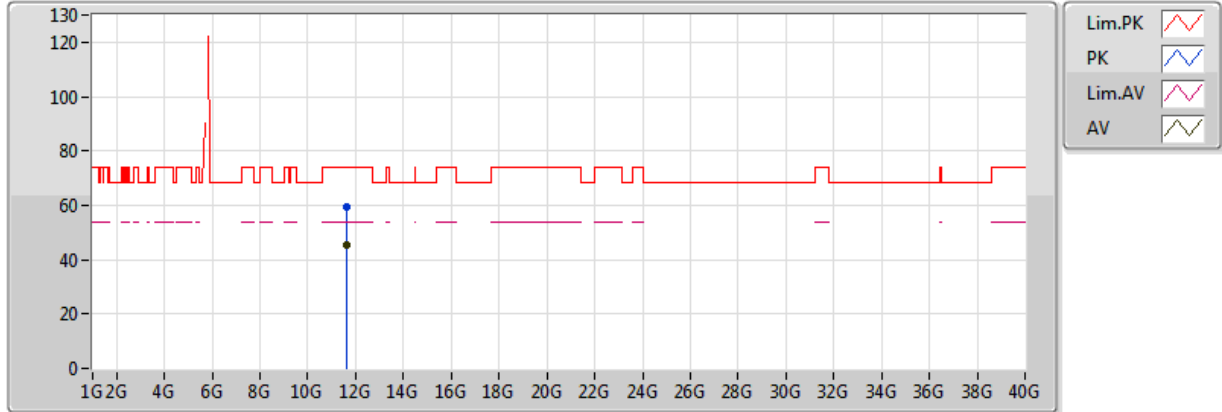
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Setting 12
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6174G	66.91	68.20	-1.29	5.70	3	Horizontal	178	1.64	-
PK	5.801G	116.37	Inf	-Inf	6.36	3	Horizontal	178	1.64	-
AV	5.7998G	106.88	Inf	-Inf	6.36	3	Horizontal	178	1.64	-
PK	5.9426G	63.86	68.20	-4.34	6.88	3	Horizontal	178	1.64	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

04/05/2018



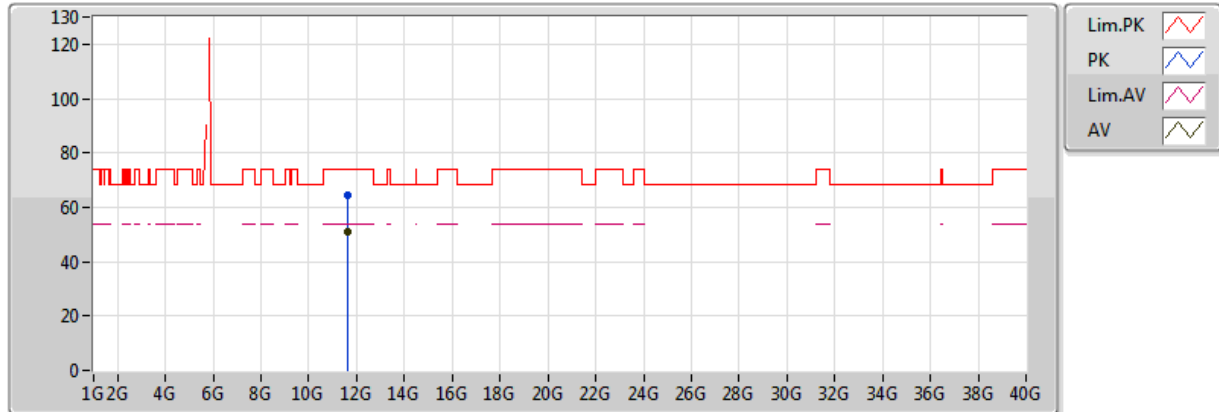
EUT Y_2TX
Setting 12
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.59648G	59.13	74.00	-14.87	13.41	3	Vertical	178	1.91	-
AV	11.59564G	45.29	54.00	-8.71	13.41	3	Vertical	178	1.91	-

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

04/05/2018



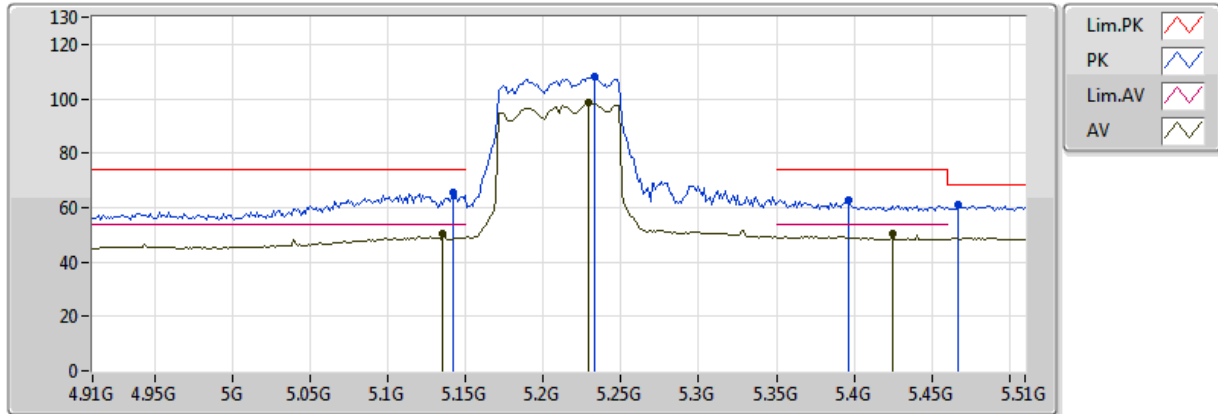
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Setting 12
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.59648G	64.42	74.00	-9.58	13.41	3	Horizontal	176	1.97	-
AV	11.59792G	50.90	54.00	-3.10	13.41	3	Horizontal	176	1.97	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/05/2018



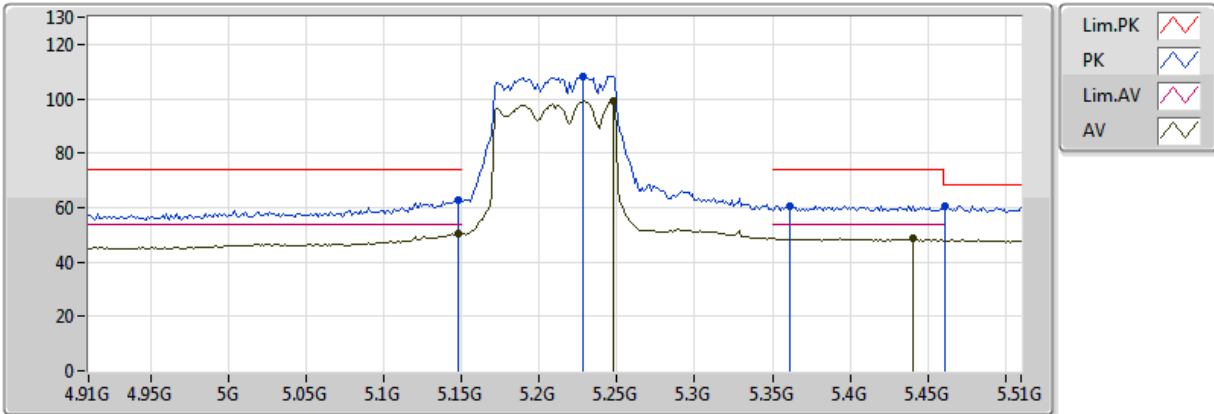
EUT Y_2TX
Setting 9
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1416G	65.38	74.00	-8.62	4.64	3	Vertical	183	1.81	-
AV	5.1356G	50.23	54.00	-3.77	4.62	3	Vertical	183	1.81	-
PK	5.2328G	107.93	Inf	-Inf	4.87	3	Vertical	183	1.81	-
AV	5.2292G	98.39	Inf	-Inf	4.86	3	Vertical	183	1.81	-
PK	5.396G	62.63	74.00	-11.37	5.20	3	Vertical	183	1.81	-
AV	5.4248G	50.48	54.00	-3.52	5.25	3	Vertical	183	1.81	-
PK	5.4668G	60.90	68.20	-7.30	5.31	3	Vertical	183	1.81	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/05/2018



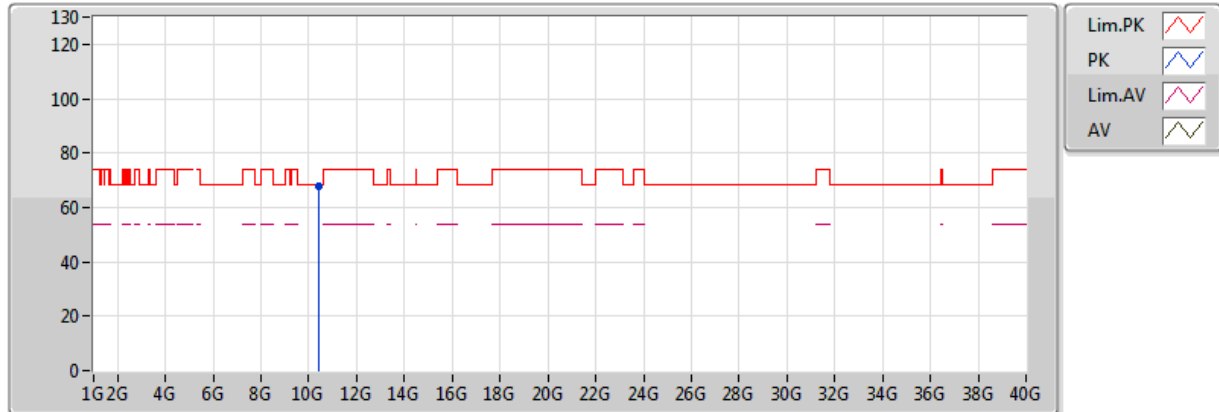
EUT Y_2TX
Setting 9
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.1476G	62.55	74.00	-11.45	4.65	3	Horizontal	183	1.97	-
AV	5.1476G	50.51	54.00	-3.49	4.65	3	Horizontal	183	1.97	-
PK	5.228G	108.40	Inf	-Inf	4.86	3	Horizontal	183	1.97	-
AV	5.2472G	99.20	Inf	-Inf	4.90	3	Horizontal	183	1.97	-
PK	5.3612G	60.48	74.00	-13.52	5.14	3	Horizontal	183	1.97	-
PK	5.4608G	60.77	68.20	-7.43	5.30	3	Horizontal	183	1.97	-
AV	5.4404G	48.86	54.00	-5.14	5.27	3	Horizontal	183	1.97	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/05/2018



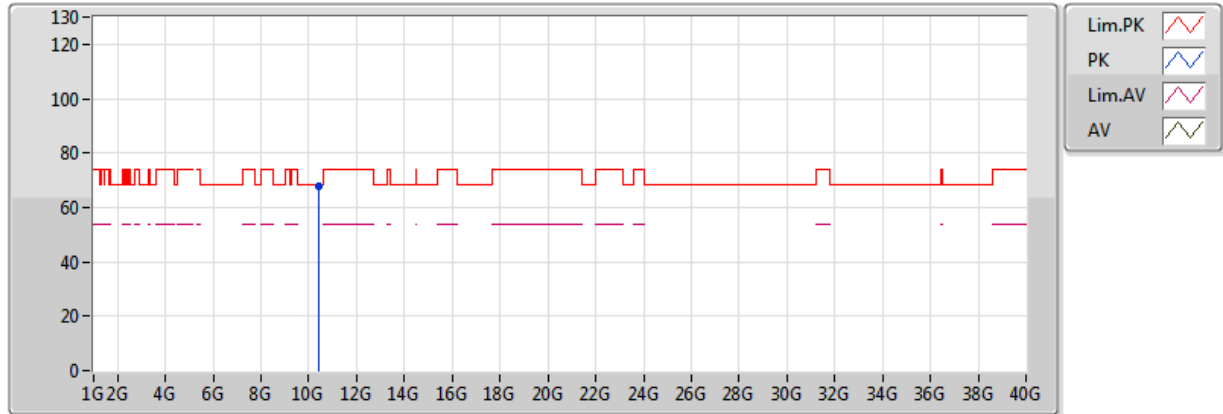
EUT Y_2TX
Setting 9
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.42768G	67.99	68.20	-0.21	12.75	3	Vertical	183	2.10	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

07/05/2018



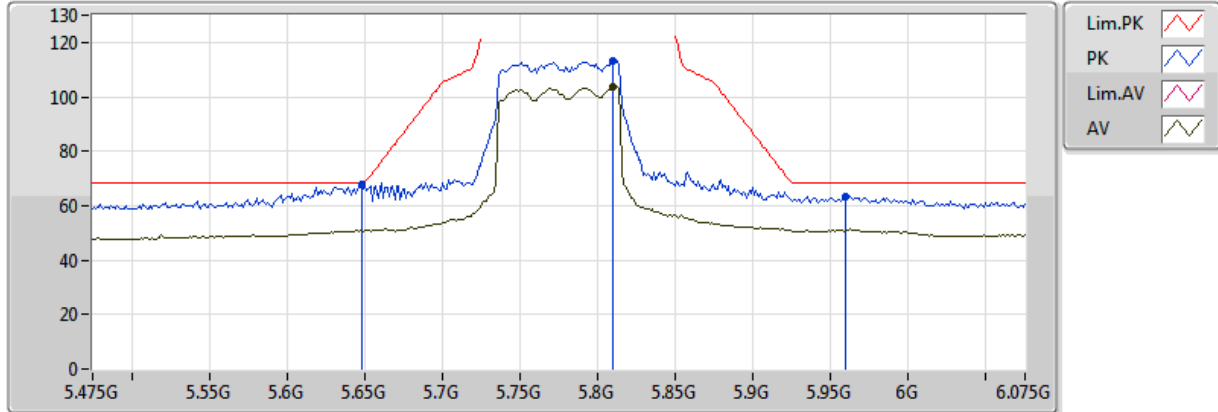
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Setting 9
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	10.4278G	67.98	68.20	-0.22	12.75	3	Horizontal	175	2.06	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

04/05/2018



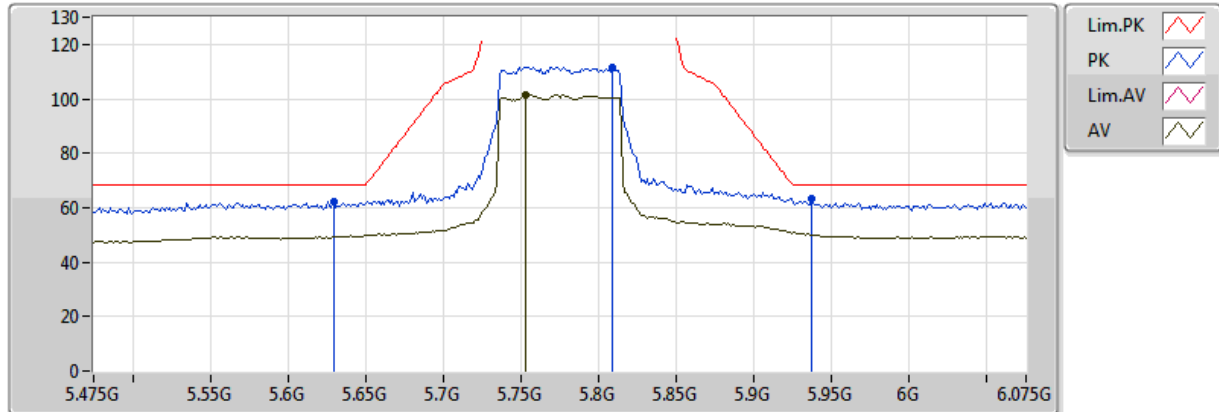
EUT Y_2TX
Setting 11
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6478G	67.87	68.20	-0.33	5.80	3	Vertical	181	1.83	-
PK	5.8098G	113.40	Inf	-Inf	6.40	3	Vertical	181	1.83	-
AV	5.8098G	103.82	Inf	-Inf	6.40	3	Vertical	181	1.83	-
PK	5.9598G	63.44	68.20	-4.76	6.93	3	Vertical	181	1.83	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

04/05/2018



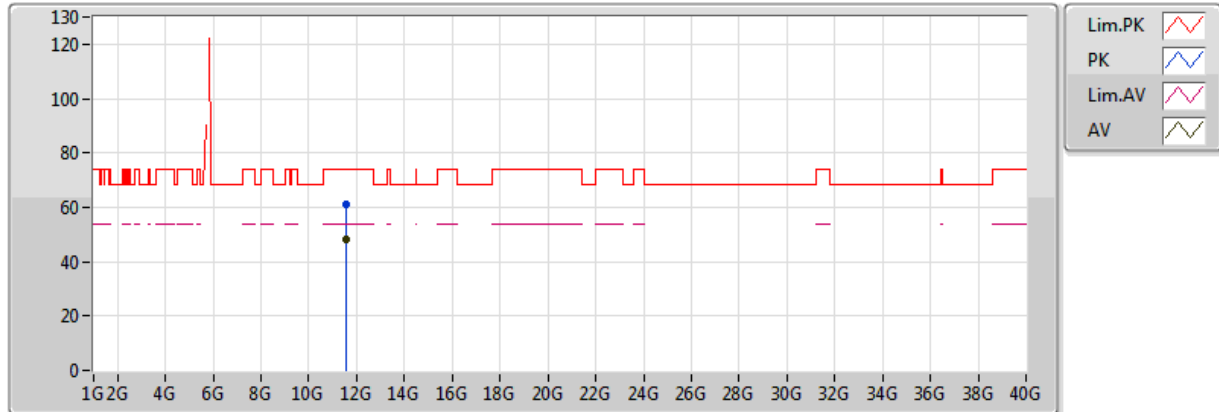
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Setting 11
04-M-01-10
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	5.6298G	62.20	68.20	-6.00	5.74	3	Horizontal	181	1.66	-
PK	5.8086G	111.76	Inf	-Inf	6.39	3	Horizontal	181	1.66	-
AV	5.7534G	101.47	Inf	-Inf	6.19	3	Horizontal	181	1.66	-
PK	5.937G	63.04	68.20	-5.16	6.85	3	Horizontal	181	1.66	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

04/05/2018



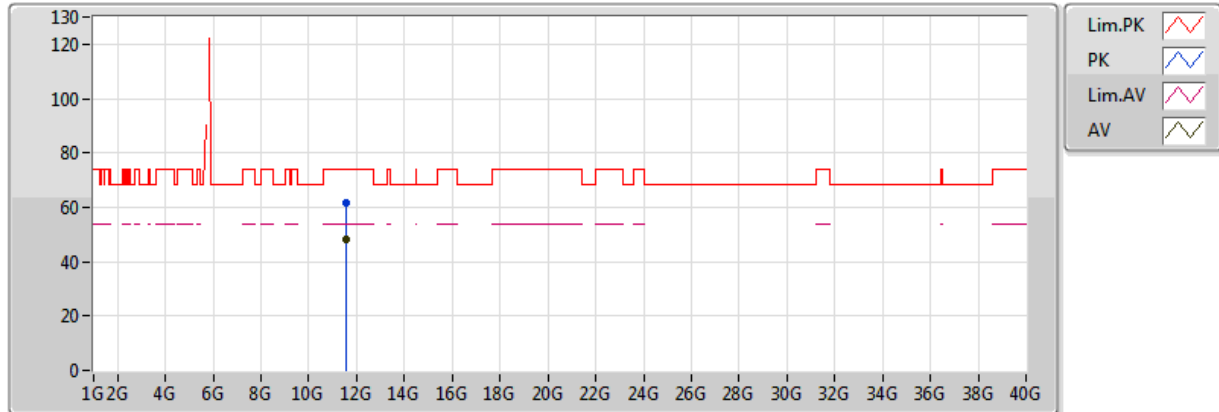
EUT Y_2TX
Setting 11
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.5572G	61.18	74.00	-12.82	13.41	3	Vertical	174	1.96	-
AV	11.55588G	48.22	54.00	-5.78	13.41	3	Vertical	174	1.96	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

04/05/2018



EUT Y_2TX
Setting 11
04-S-5
FSP(100142)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
PK	11.55492G	61.55	74.00	-12.45	13.41	3	Horizontal	174	1.98	-
AV	11.55516G	48.31	54.00	-5.69	13.41	3	Horizontal	174	1.98	-