FCC RADIO TEST REPORT

FCC ID	:	U4P-CGNM2252
Equipment	:	Wireless Cable Gateway
Brand Name	:	hitron
Model Name	:	CGNM-2252 & CGNM-3552
Applicant	:	Hitron TECHNOLOGIES No.1-8, LISING 1ST RD., HSINCHU SCIENCE PARK, HSINCHU 300, Taiwan
Manufacturer	:	Hitron TECHNOLOGIES No.1-8, LISING 1ST RD., HSINCHU SCIENCE PARK, HSINCHU 300, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Mar. 23, 2016, and testing was started from Dec. 20, 2017 and completed on May 02, 2018. We, SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Sam Chen

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

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR642211-01AB	01	Initial issue of report	May 17, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(b)	Unwanted Emissions	PASS	-

Reviewed by: Sam Chen

Report Producer: Cindy Peng

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
5150-5250	11a	20	3
5150-5250	802.11n HT20	20	3
5150-5250	802.11ac VHT20	20	3
5150-5250	802.11n HT40	40	3
5150-5250	802.11ac VHT40	40	3
5150-5250	802.11ac VHT80	80	3
5725-5850	11a	20	3
5725-5850	802.11n HT20	20	3
5725-5850	802.11ac VHT20	20	3
5725-5850	802.11n HT40	40	3
5725-5850	802.11ac VHT40	40	3
5725-5850	802.11ac VHT80	80	3

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

1.1.2 Antenna Information

Ant.	Chain	Port	Brand	Model Name	Type	Connector	Gain (dBi)		
							2.4GHz	5GHz	
								Band 1	Band 4
1	1	1	Airgain	N2420GS-T-PK1-G65U	PIFA	I-PEX	6.25	-	-
2	2	2	Airgain	N2420GS-T-PK1-G100U	PIFA	I-PEX	3.45	-	-
3	3	3	Airgain	N2420GS-T-PK1-G160UR2	PIFA	I-PEX	4.93	-	-
4	4	1	Airgain	N5x20BS-T-PK1-G150U	PIFA	I-PEX	-	3.09	3.09
5	5	2	Airgain	N5x20B-T-PK1-B85U	PIFA	I-PEX	-	4.21	4.21
6	6	3	Airgain	N5x20BS-T-PK1-G40U	PIFA	I-PEX	-	3.80	3.80

Note: The EUT has six antennas.

For 2.4GHz function:

For IEEE 802.11b/g/n mode:

Chain 1, Chain 2 and Chain 3 can be used as transmitting/receiving antenna.

Chain 1, Chain 2 and Chain 3 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac mode:

Chain 4, Chain 5 and Chain 6 can be used as transmitting/receiving antenna.

Chain 4, Chain 5 and Chain 6 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.020	2.100	96.19%	0.17	0.50
802.11ac MCS0/Nss1 VHT20	1.900	2.020	94.06%	0.27	0.53
802.11ac MCS0/Nss1 VHT40	0.910	1.000	91.00%	0.41	1.10
802.11ac MCS0/Nss1 VHT80	0.442	0.518	85.33%	0.69	2.26

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☒	Indoor P2M
	☐	Fixed P2P	☐	Client
Test Software Version	ART2-GUI			

1.1.5 Table for Multiple Listing

1. The model names in the following table are all refer to the identical product.

Model Name	Description
CGNM-2252	All the models are identical, the different model names served as marketing strategy.
CGNM-3552	

From the above models, model: CGNM-2252 was selected as representative model for the test and its data was recorded in this report.

2. The EUT has two sources of power amplifier for 5GHz only. Please refer to the following table for detail information.

Power Amplifier	Brand Name	Model Name
Main source	SKYWORKS	SE5003L1-R
Second source	Qorvo	RFPA5542B

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR642211AB

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

Modifications	Performance Checking
1. Adding the second source of power amplifier for 5GHz only (Brand Name: Qorvo, Model Name: RFPA5542B).	Unwanted Emissions test.
2. Adding the adapter 2 (Brand Name: MOSO, Model Name: MSA-C2500IS12.0-30D-US).	1. AC Power-line Conducted Emissions test. 2. Unwanted Emissions below 1GHz test.
3. Updating test rule of 5GHz band 4 to "15.407 (b)(4)(i) of New Rules (ET Docket No. 13–49; FCC 16–24)" from "Old Rules".	Band Edge Emission of Unwanted Emissions test.
4. Changing applicant's company and manufacturer's company to "Hitron TECHNOLOGIES" from "Hitron Technologies Inc.". 5. Changing applicant address and Manufacturer Address to "No.1-8, LISING 1ST RD., HSINCHU SCIENCE PARK, HSINCHU 300, Taiwan" from "No.1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 300, Taiwan".	It does not affect the test.

Note: Unwanted Emissions above 1GHz test will be based on original output power to re-test.

1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH01-CB (below 1GHz)	Eddie Weng, Ekko Hsieh	22°C / 54%	Apr. 10, 2018~Apr. 30, 2018
Radiated	03CH01-CB (above1GHz)	Eddie Weng, Ekko Hsieh	22°C / 54%	Dec. 20, 2017~Apr. 10, 2018
AC Conduction	CO01-CB	Howard Liu	23°C / 58%	May 02, 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%

2 Test Configuration of EUT

2.1 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	2.4GHz WLAN function - Main source of Power Amplifier + Adapter 2
2	5GHz WLAN function - Main source of Power Amplifier + Adapter 2
3	2.4GHz WLAN function - Second source of Power Amplifier + Adapter 1
4	5GHz WLAN function - Second source of Power Amplifier + Adapter 1
5	2.4GHz WLAN function - Second source of Power Amplifier + Adapter 2
6	5GHz WLAN function - Second source of Power Amplifier + Adapter 2
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	2.4GHz WLAN function - Main source of Power Amplifier + Adapter 2
2	5GHz WLAN function - Main source of Power Amplifier + Adapter 2
3	2.4GHz WLAN function - Second source of Power Amplifier + Adapter 1
4	5GHz WLAN function - Second source of Power Amplifier + Adapter 1
5	2.4GHz WLAN function - Second source of Power Amplifier + Adapter 2
6	5GHz WLAN function - Second source of Power Amplifier + Adapter 2
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	2.4GHz WLAN + 5GHz WLAN
Refer to Sporton Test Report No.: FA642211-01 for Co-location RF Exposure Evaluation.	

Note:
- The EUT can only use Y axis position.
- VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

2.2 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.3 Accessories

Accessories				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Rating**
1	Adapter 1	AtechOEM	ADS0306-W120250	Input: 100-240V ~ 50-60Hz 1.0A Output: 12V, 2.5A
2	Adapter 2	MOSO	MSA-C2500IS12.0-30D-US	Input: 100-240V ~ 50/60Hz 1.0A max. Output: 12.0V, 2.5A
No.	**Equipment Name**			
3	Pedestal*1			

2.4 Support Equipment

For Test Site No: CO01-CB

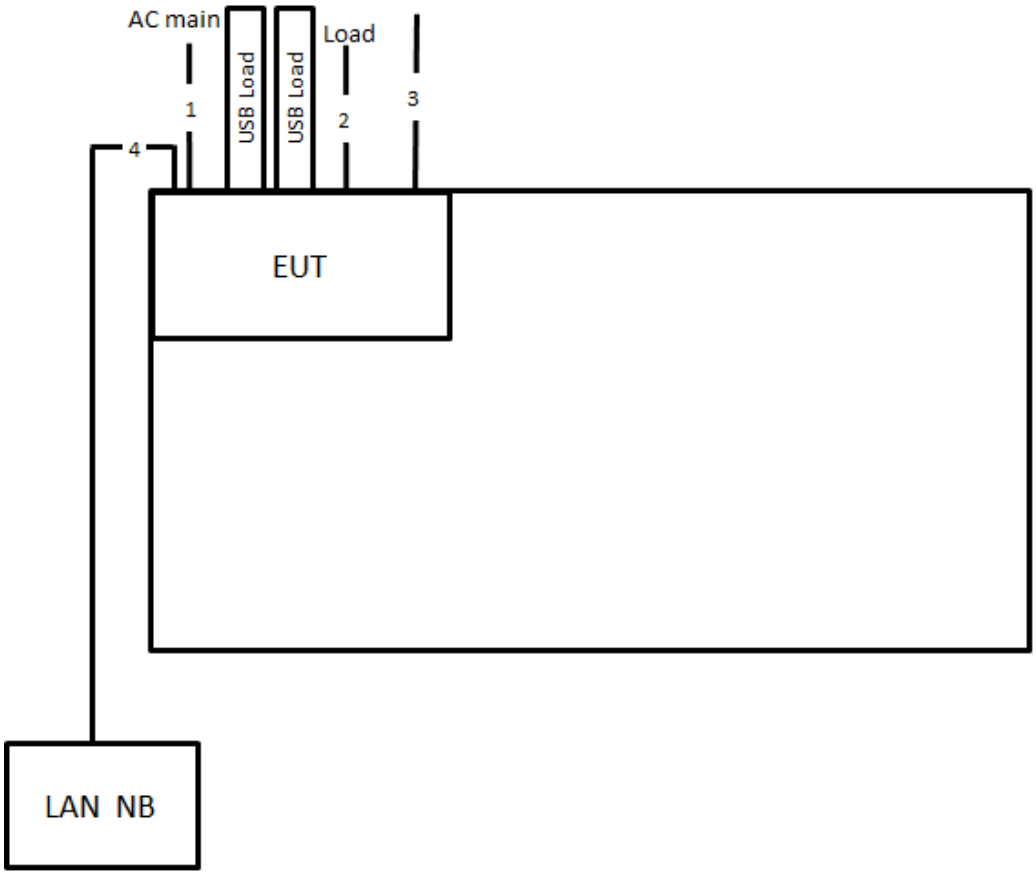
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E6430	DoC
2	Flash disk3.0	ADATA	C103	DoC
3	Flash disk3.0	ADATA	C103	DoC

For Test Site No: 03CH01-CB

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

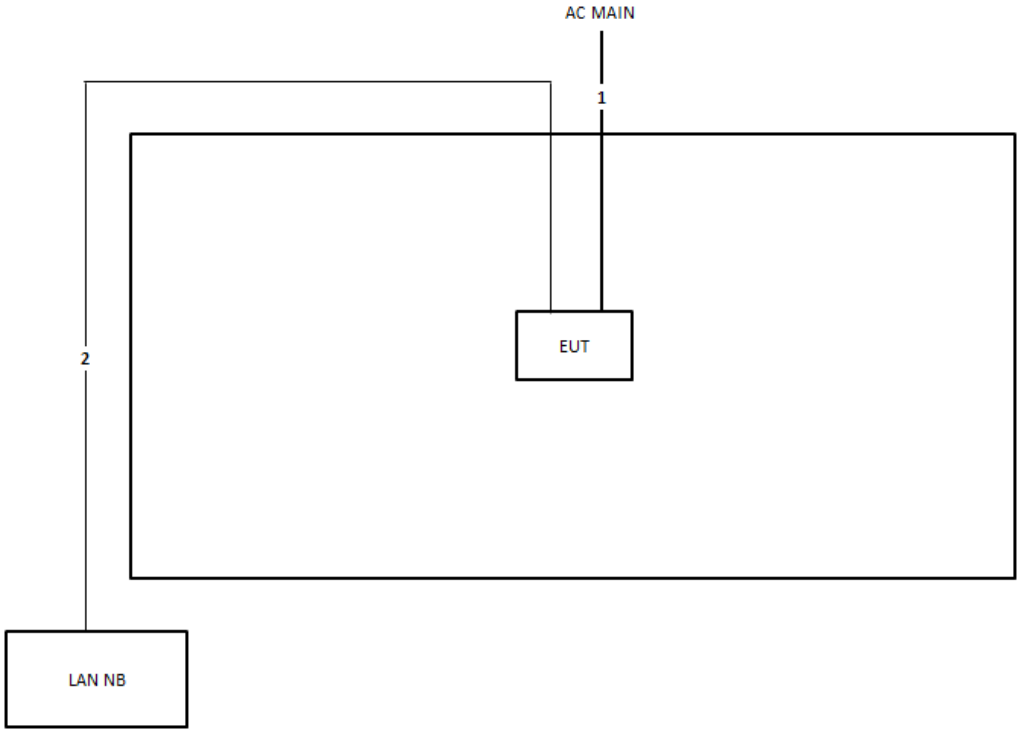
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable*3	No	1.5m
3	Coaxial cable	Yes	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

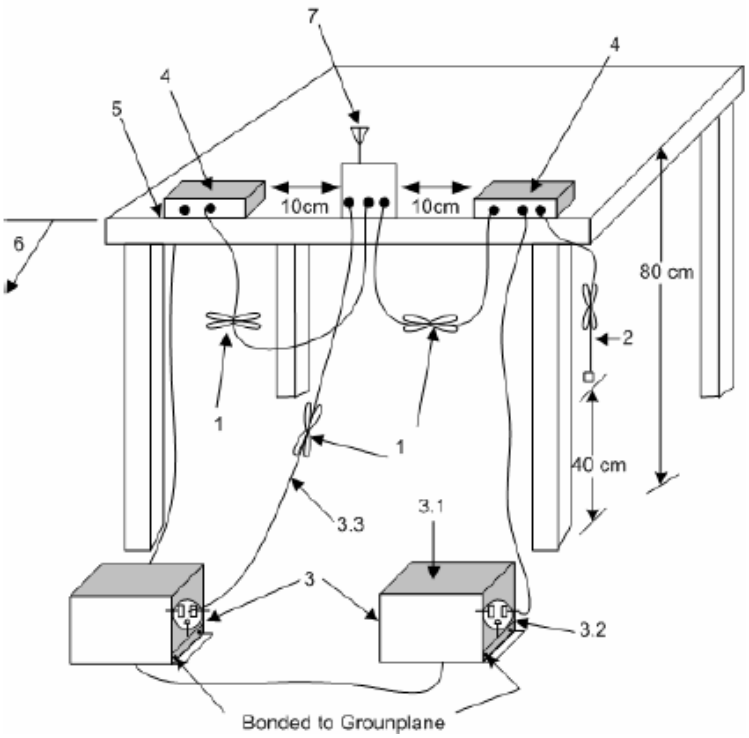
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Unwanted Emissions

3.2.1 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).

3.2.2 Measuring Instruments

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

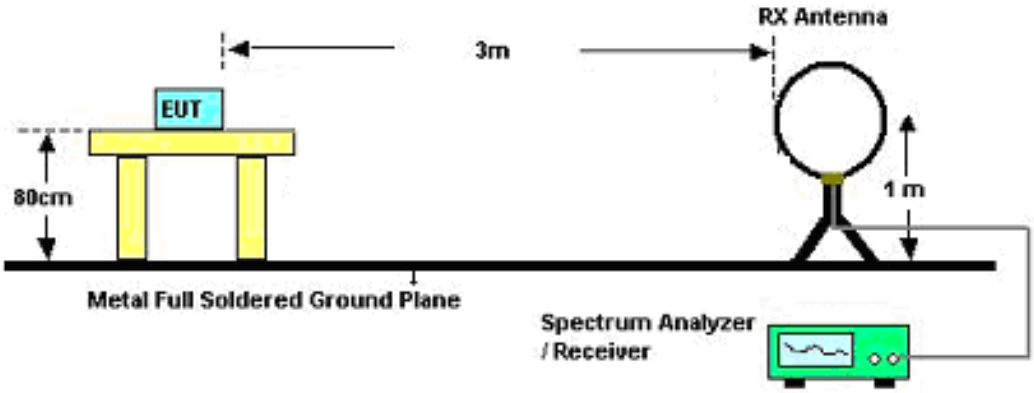
3.2.3 Test Procedures

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

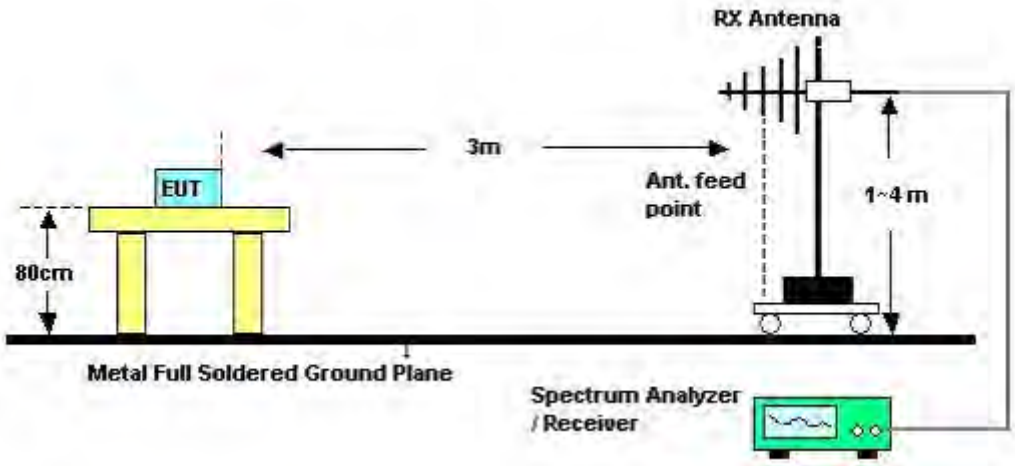
3.2.4 Test Setup

Transmitter Radiated Unwanted Emissions

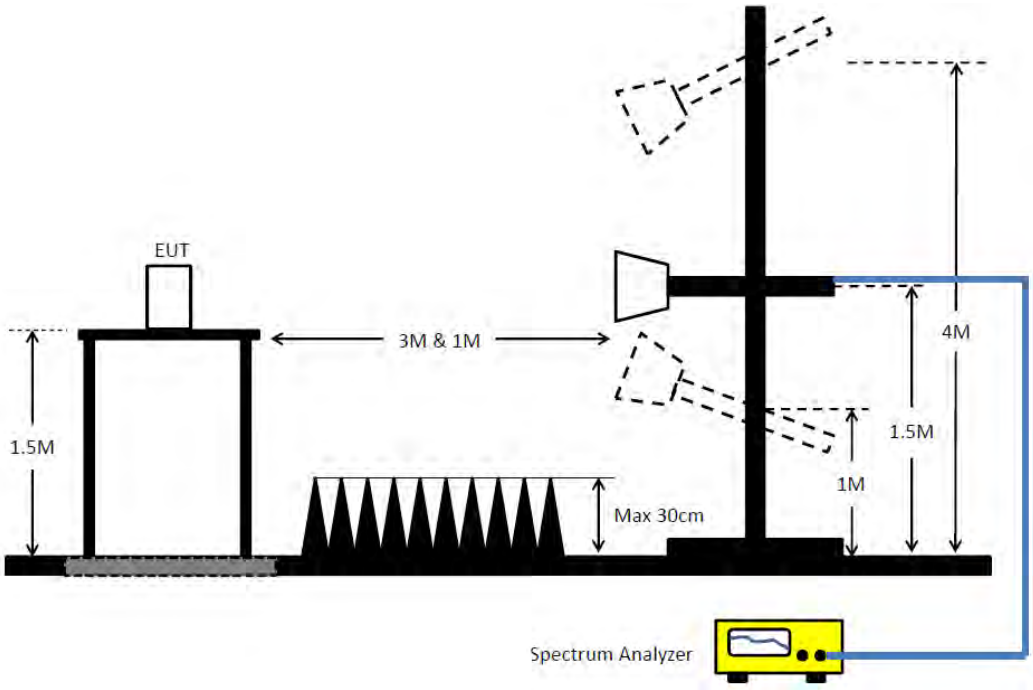
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.2.5 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.

3.2.6 Test Result of Transmitter Unwanted Emissions

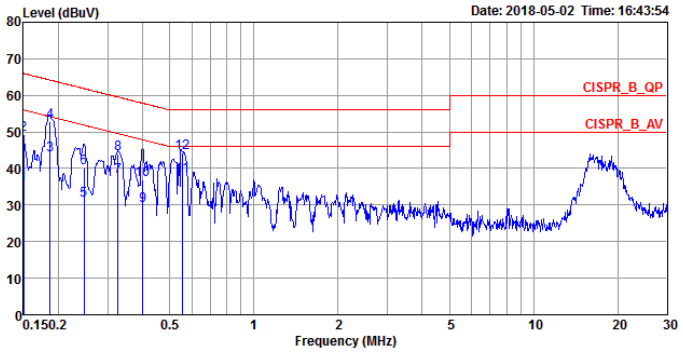
Refer as Appendix B

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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-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)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-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	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)

Note: Calibration Interval of instruments listed above is one year.
N.C.R. means Non-Calibration required.

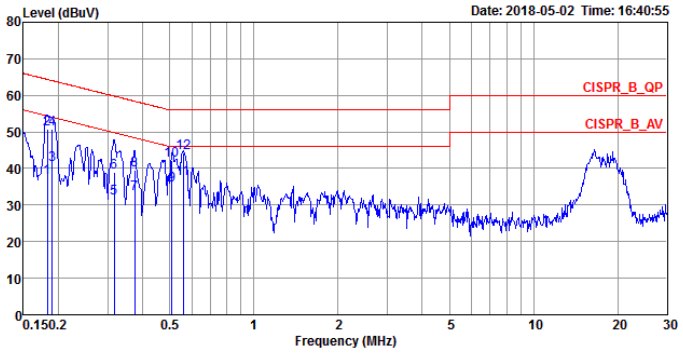
AC Power-line Conducted Emissions Result			
Operating Mode	3	**Power Phase**	Neutral
Operating Function	CTX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	35.60	-20.40	56.00	25.34	10.10	0.16	Average	NEUTRAL
2	0.1500	49.35	-16.65	66.00	39.09	10.10	0.16	QP	NEUTRAL
3	0.1864	43.64	-10.56	54.20	33.49	10.01	0.14	Average	NEUTRAL
4	0.1864	52.74	-11.46	64.20	42.59	10.01	0.14	QP	NEUTRAL
5	0.2468	31.36	-20.50	51.86	21.19	10.08	0.09	Average	NEUTRAL
6	0.2468	40.24	-21.62	61.86	30.07	10.08	0.09	QP	NEUTRAL
7	0.3268	37.74	-11.79	49.53	27.51	10.19	0.04	Average	NEUTRAL
8	0.3268	44.13	-15.40	59.53	33.90	10.19	0.04	QP	NEUTRAL
9	0.3997	29.89	-17.97	47.86	19.62	10.26	0.01	Average	NEUTRAL
10	0.3997	36.79	-21.07	57.86	26.52	10.26	0.01	QP	NEUTRAL
11	0.5552	38.06	-7.94	46.00	27.78	10.21	0.07	Average	NEUTRAL
12	0.5552	44.26	-11.74	56.00	33.98	10.21	0.07	QP	NEUTRAL

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

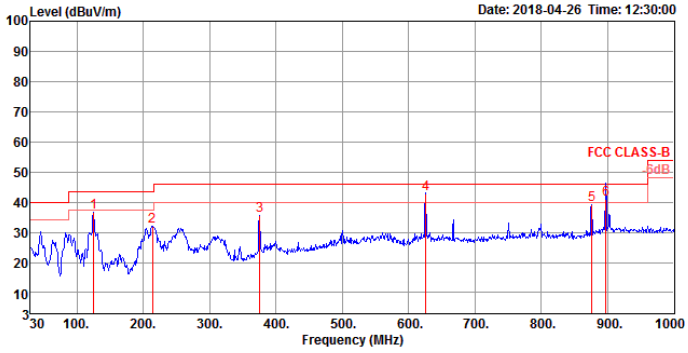
AC Power-line Conducted Emissions Result			
Operating Mode	3	**Power Phase**	Line
Operating Function	CTX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1825	37.40	-16.97	54.37	27.35	9.91	0.14	Average	LINE
2	0.1825	50.88	-13.49	64.37	40.83	9.91	0.14	QP	LINE
3	0.1904	41.14	-12.88	54.02	31.10	9.91	0.13	Average	LINE
4	0.1904	50.85	-13.17	64.02	40.81	9.91	0.13	QP	LINE
5	0.3166	31.95	-17.85	49.80	21.97	9.93	0.05	Average	LINE
6	0.3166	39.06	-20.74	59.80	29.08	9.93	0.05	QP	LINE
7	0.3751	32.94	-15.45	48.39	22.98	9.94	0.02	Average	LINE
8	0.3751	39.64	-18.75	58.39	29.68	9.94	0.02	QP	LINE
9	0.5101	35.54	-10.46	46.00	25.53	9.95	0.06	Average	LINE
10	0.5101	42.09	-13.91	56.00	32.08	9.95	0.06	QP	LINE
11	0.5581	37.15	-8.85	46.00	27.13	9.95	0.07	Average	LINE
12	0.5581	44.30	-11.70	56.00	34.28	9.95	0.07	QP	LINE

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

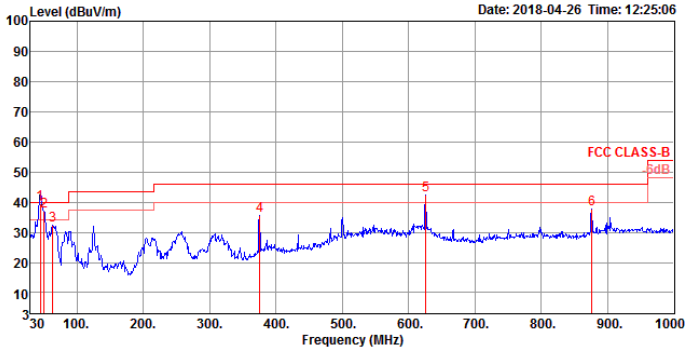
RSE below 1GHz Result			
Operating Mode	4	**Polarization**	Horizontal
Operating Function	CTX		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	125.06	36.59	43.50	-6.91	49.19	1.15	18.60	32.35	300	247	Peak	HORIZONTAL
2	214.30	32.00	43.50	-11.50	45.81	2.08	16.40	32.29	125	265	Peak	HORIZONTAL
3	375.32	35.55	46.00	-10.45	43.73	2.22	21.88	32.28	100	206	Peak	HORIZONTAL
4	625.58	42.81	46.00	-3.19	47.22	2.76	25.21	32.38	125	282	QP	HORIZONTAL
5	875.84	39.31	46.00	-6.69	39.92	3.60	27.50	31.71	100	261	Peak	HORIZONTAL
6	897.18	40.98	46.00	-5.02	40.31	4.62	27.68	31.63	100	220	QP	HORIZONTAL

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

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	44.55	39.69	40.00	-0.31	53.50	1.36	17.25	32.42	100	290	QP	VERTICAL
2	50.37	36.93	40.00	-3.07	53.20	1.43	14.72	32.42	100	0	Peak	VERTICAL
3	63.95	32.41	40.00	-7.59	51.05	1.16	12.60	32.40	200	155	Peak	VERTICAL
4	375.32	35.61	46.00	-10.39	43.79	2.22	21.88	32.28	150	287	Peak	VERTICAL
5	625.58	42.52	46.00	-3.48	46.93	2.76	25.21	32.38	100	223	Peak	VERTICAL
6	875.84	37.81	46.00	-8.19	38.42	3.60	27.50	31.71	125	274	Peak	VERTICAL

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

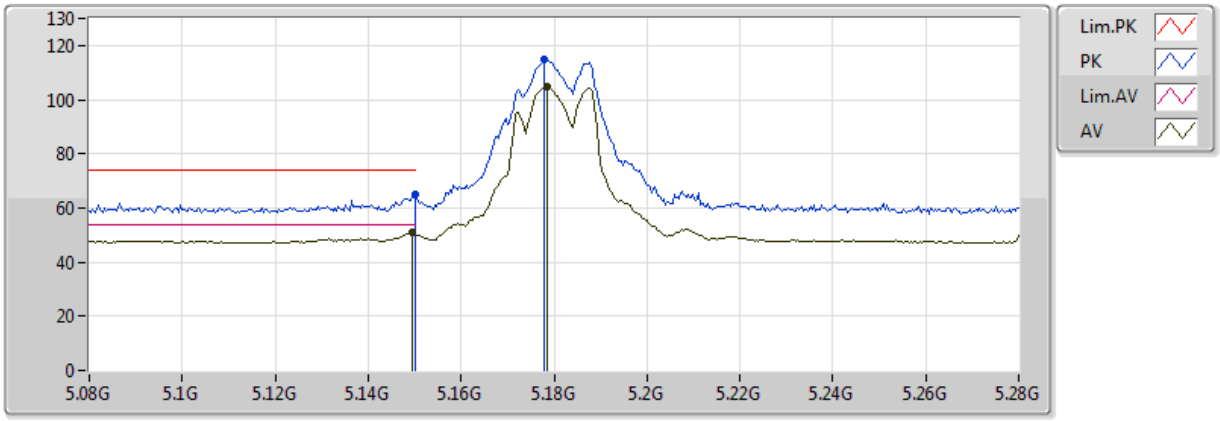
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_3TX	Pass	AV	5.149995G	53.81	54.00	-0.19	8.24	3	Horizontal	225	1.62	-

TEL : 886-3-656-9065
FAX : 886-3-656-9085

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX

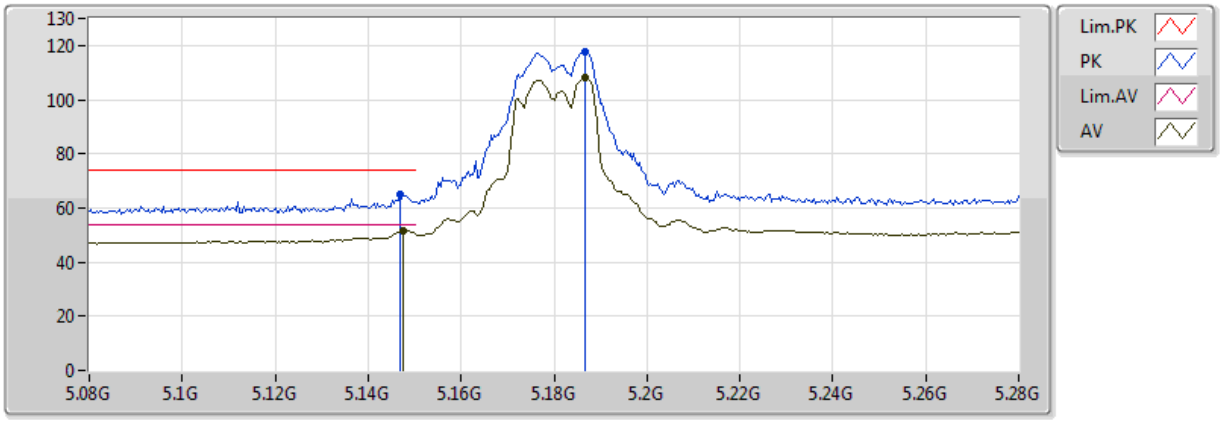


20171220
EUT Y_3TX
Setting 18.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1496G	50.84	54.00	-3.16	4.83	3	Vertical	273	1.50
AV	5.1784G	104.75	Inf	-Inf	4.86	3	Vertical	273	1.50
PK	5.149995G	65.14	74.00	-8.86	4.83	3	Vertical	273	1.50
PK	5.178G	114.92	Inf	-Inf	4.86	3	Vertical	273	1.50

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX

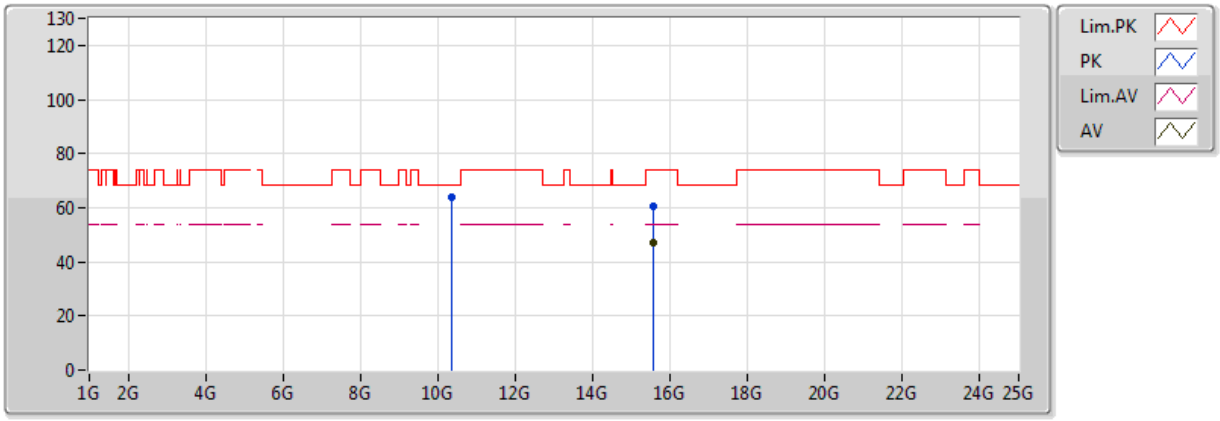


20171220
EUT Y_3TX
Setting 18.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1476G	51.34	54.00	-2.66	4.83	3	Horizontal	343	1.65
AV	5.1868G	108.29	Inf	-Inf	4.87	3	Horizontal	343	1.65
PK	5.1468G	65.13	74.00	-8.87	4.83	3	Horizontal	343	1.65
PK	5.1868G	117.81	Inf	-Inf	4.87	3	Horizontal	343	1.65

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX

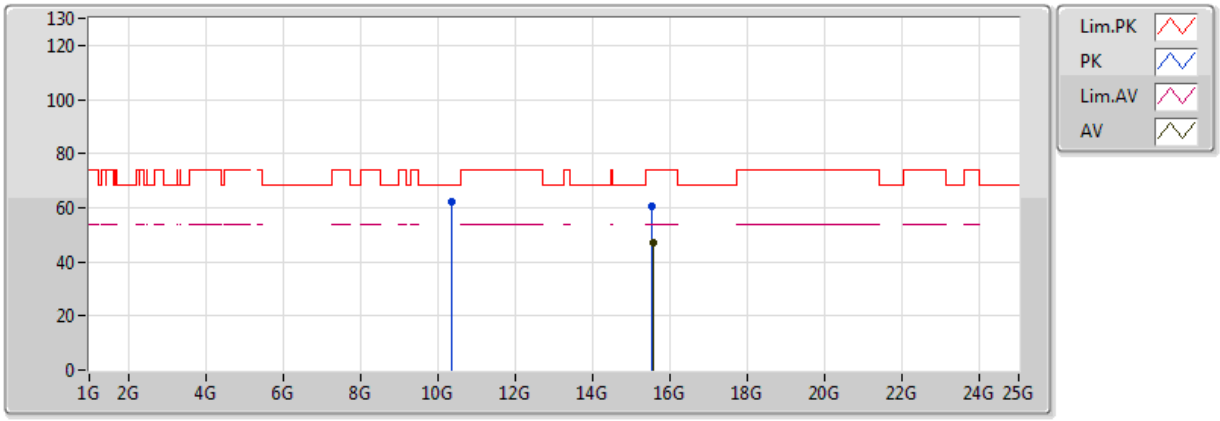


20171220
EUT Y_3TX
Setting 18.5
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.54676G	46.95	54.00	-7.05	15.90	3	Vertical	46	1.50
PK	10.36032G	63.81	68.20	-4.39	12.55	3	Vertical	308	1.43
PK	15.54824G	60.24	74.00	-13.76	15.90	3	Vertical	46	1.50

802.11a_Nss1,(6Mbps)_3TX

5180MHz_TX

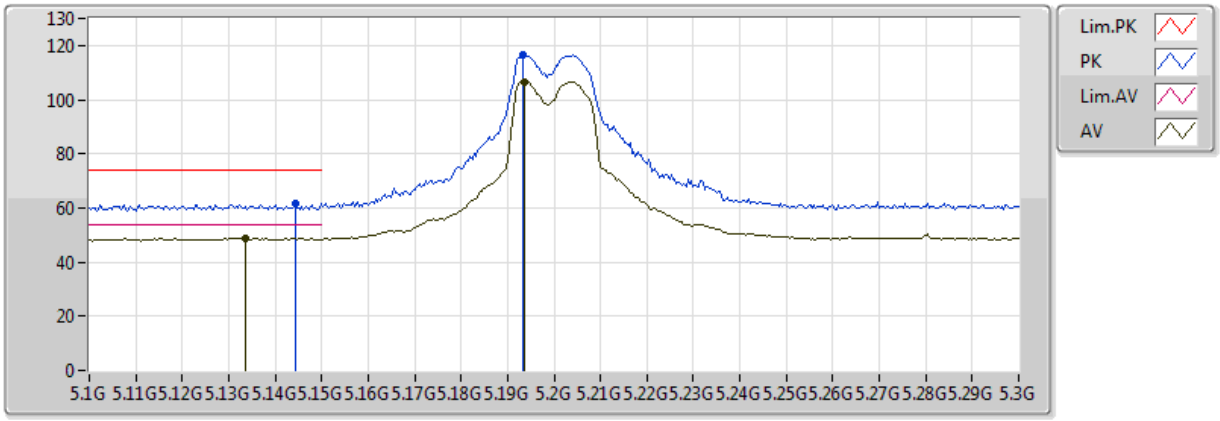


20171220
EUT Y_3TX
Setting 18.5
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.5496G	47.05	54.00	-6.95	15.89	3	Horizontal	329	1.50
PK	10.3612G	62.42	68.20	-5.78	12.55	3	Horizontal	188	1.50
PK	15.536G	60.70	74.00	-13.30	15.91	3	Horizontal	329	1.50

802.11a_Nss1,(6Mbps)_3TX

5200MHz_TX

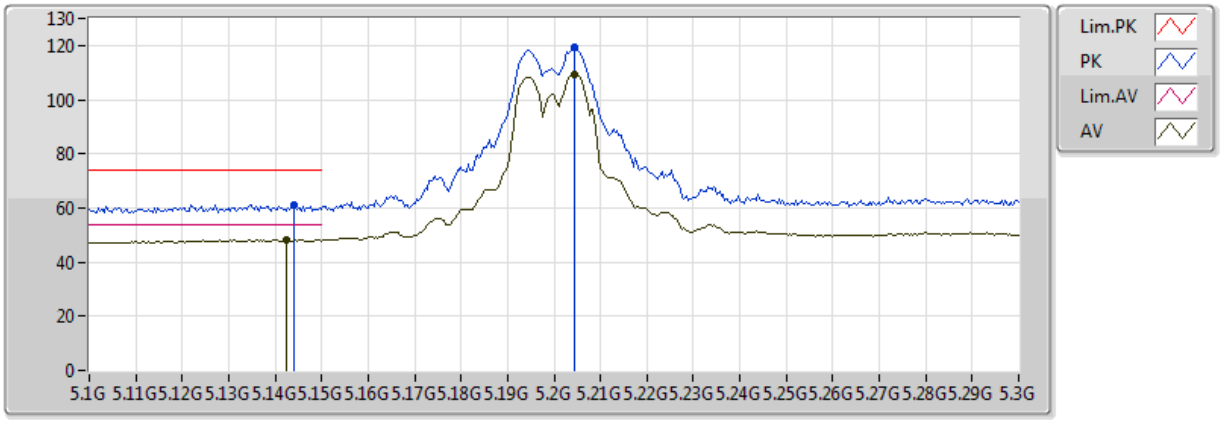


20171220
EUT Y_3TX
Setting 19
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1336G	48.86	54.00	-5.14	4.81	3	Vertical	9	1.50
AV	5.1936G	106.58	Inf	-Inf	4.88	3	Vertical	9	1.50
PK	5.1444G	61.75	74.00	-12.25	4.82	3	Vertical	9	1.50
PK	5.1932G	116.36	Inf	-Inf	4.88	3	Vertical	9	1.50

802.11a_Nss1,(6Mbps)_3TX

5200MHz_TX

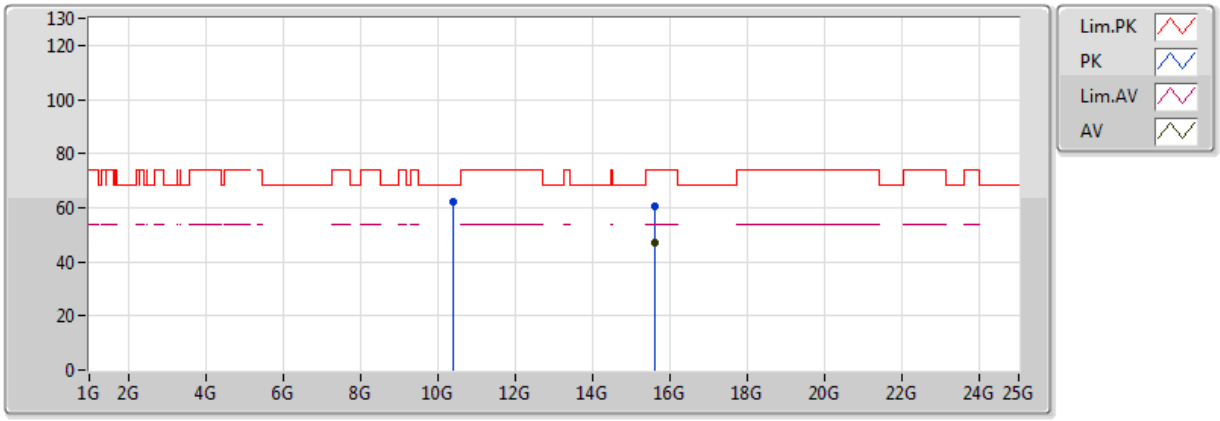


20171220
EUT Y_3TX
Setting 19
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1424G	48.33	54.00	-5.67	4.82	3	Horizontal	331	1.61
AV	5.2044G	109.38	Inf	-Inf	4.91	3	Horizontal	331	1.61
PK	5.144G	61.35	74.00	-12.65	4.82	3	Horizontal	331	1.61
PK	5.2044G	119.19	Inf	-Inf	4.91	3	Horizontal	331	1.61

802.11a_Nss1,(6Mbps)_3TX

5200MHz_TX

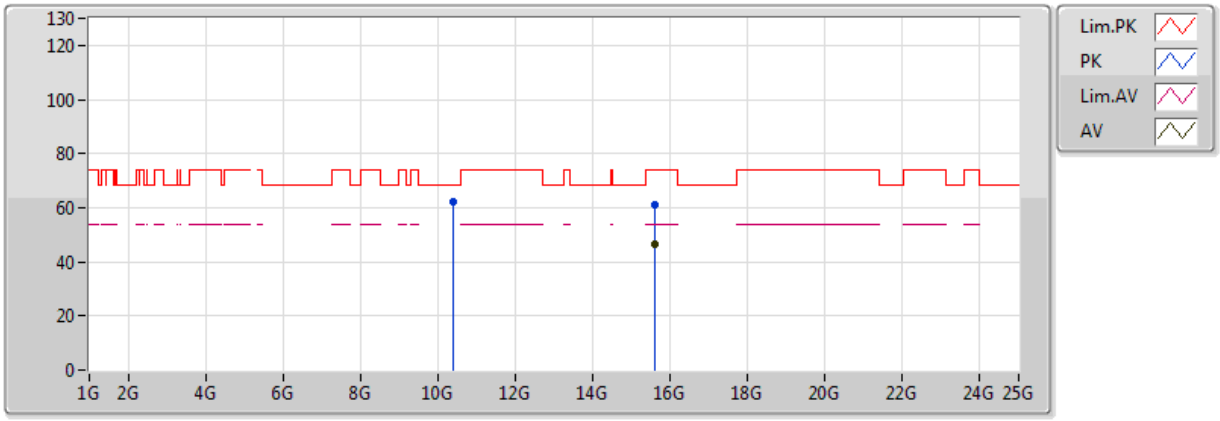


20171220
EUT Y_3TX
Setting 19
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.60052G	46.88	54.00	-7.12	15.82	3	Vertical	265	1.50
PK	10.40076G	62.33	68.20	-5.87	12.58	3	Vertical	304	1.50
PK	15.6006G	60.26	74.00	-13.74	15.82	3	Vertical	265	1.50

802.11a_Nss1,(6Mbps)_3TX

5200MHz_TX

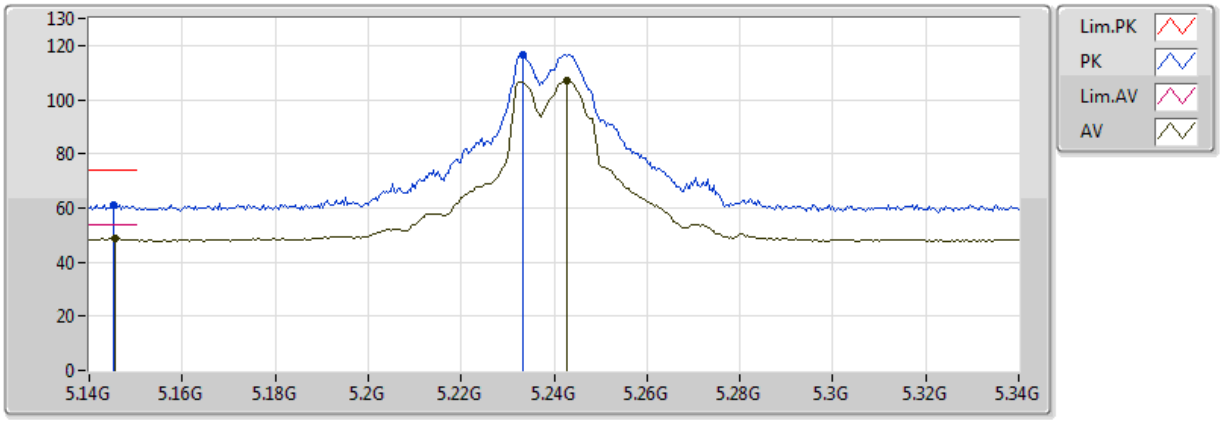


20171220
EUT Y_3TX
Setting 19
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.6062G	46.57	54.00	-7.43	15.81	3	Horizontal	335	1.50
PK	10.40028G	61.94	68.20	-6.26	12.58	3	Horizontal	188	1.54
PK	15.60332G	61.04	74.00	-12.96	15.81	3	Horizontal	335	1.50

802.11a_Nss1,(6Mbps)_3TX

5240MHz_TX

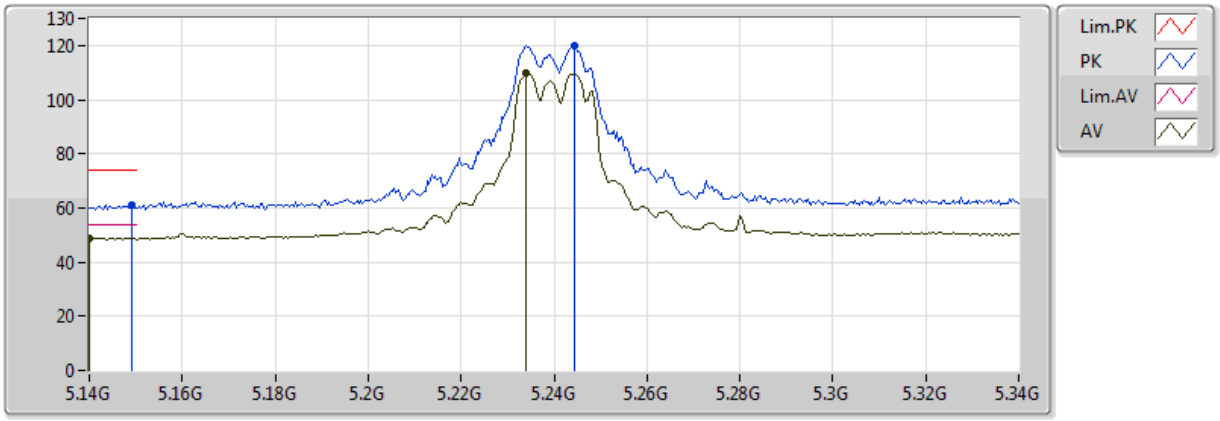


20171220
EUT Y_3TX
Setting 19.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1456G	48.66	54.00	-5.34	4.82	3	Vertical	277	1.50
AV	5.2428G	106.81	Inf	-Inf	5.08	3	Vertical	277	1.50
PK	5.1452G	61.05	74.00	-12.95	4.82	3	Vertical	277	1.50
PK	5.2332G	116.65	Inf	-Inf	5.04	3	Vertical	277	1.50

802.11a_Nss1,(6Mbps)_3TX

5240MHz_TX

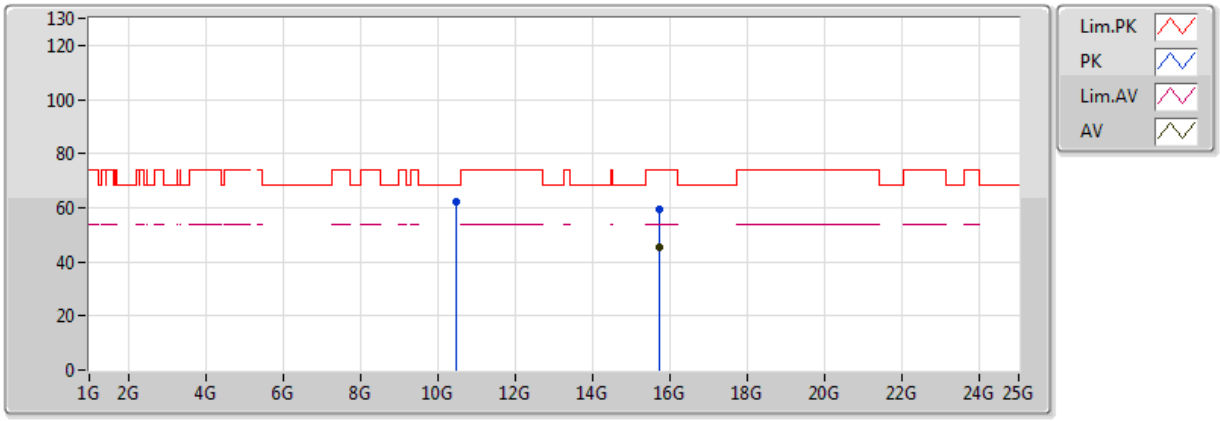


20171220
EUT Y_3TX
Setting 19.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.14G	48.73	54.00	-5.27	4.82	3	Horizontal	229	1.48
AV	5.234G	110.02	Inf	-Inf	5.04	3	Horizontal	229	1.48
PK	5.1492G	61.05	74.00	-12.95	4.83	3	Horizontal	229	1.48
PK	5.2444G	119.91	Inf	-Inf	5.09	3	Horizontal	229	1.48

802.11a_Nss1,(6Mbps)_3TX

5240MHz_TX

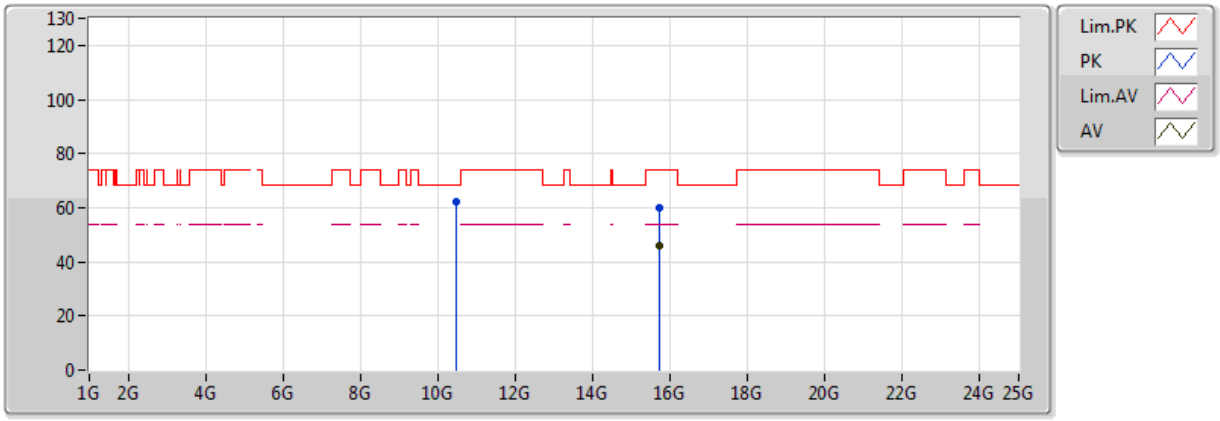


20171220
EUT Y_3TX
Setting 19.5
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.71816G	45.59	54.00	-8.41	15.63	3	Vertical	227	1.50
PK	10.47916G	62.08	68.20	-6.12	12.66	3	Vertical	308	1.50
PK	15.71588G	59.26	74.00	-14.74	15.64	3	Vertical	227	1.50

802.11a_Nss1,(6Mbps)_3TX

5240MHz_TX

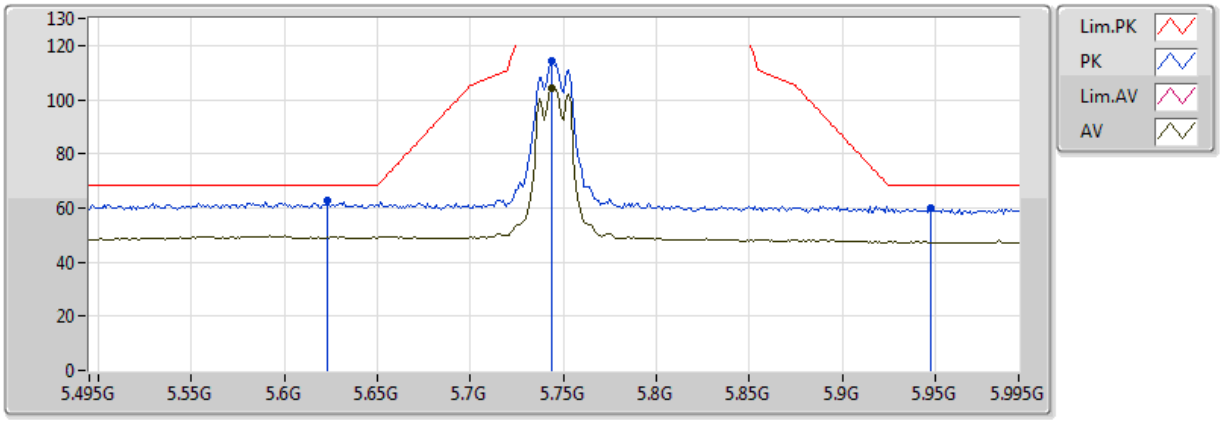


20171220
EUT Y_3TX
Setting 19.5
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.71784G	45.86	54.00	-8.14	15.63	3	Horizontal	246	1.47
PK	10.48056G	62.35	68.20	-5.85	12.66	3	Horizontal	189	1.51
PK	15.71756G	59.70	74.00	-14.30	15.63	3	Horizontal	246	1.47

802.11a_Nss1,(6Mbps)_3TX

5745MHz_TX

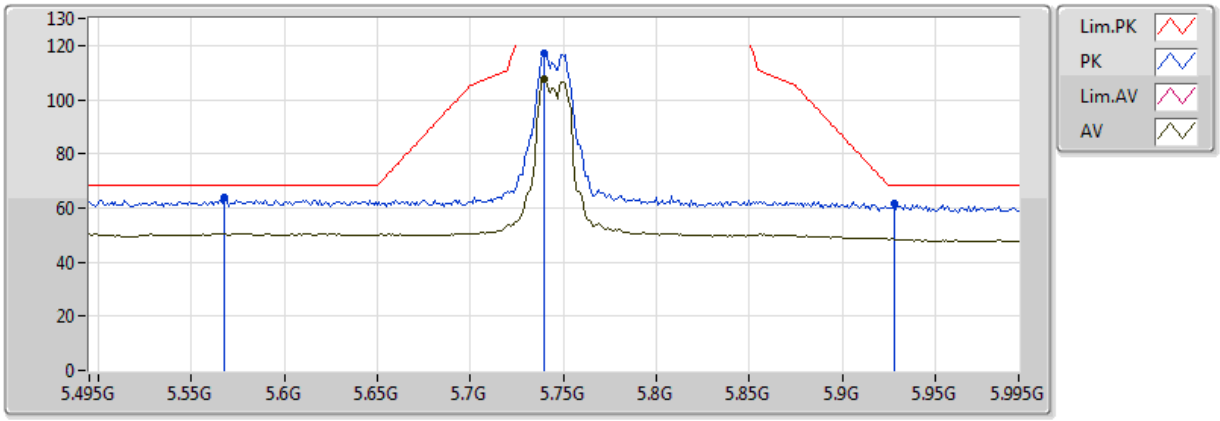


20171220
EUT Y_3TX
Setting 19.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.744G	104.49	Inf	-Inf	6.78	3	Vertical	359	2.20
PK	5.623G	62.58	68.20	-5.62	6.28	3	Vertical	359	2.20
PK	5.744G	114.28	Inf	-Inf	6.78	3	Vertical	359	2.20
PK	5.948G	59.83	68.20	-8.37	7.30	3	Vertical	359	2.20

802.11a_Nss1,(6Mbps)_3TX

5745MHz_TX

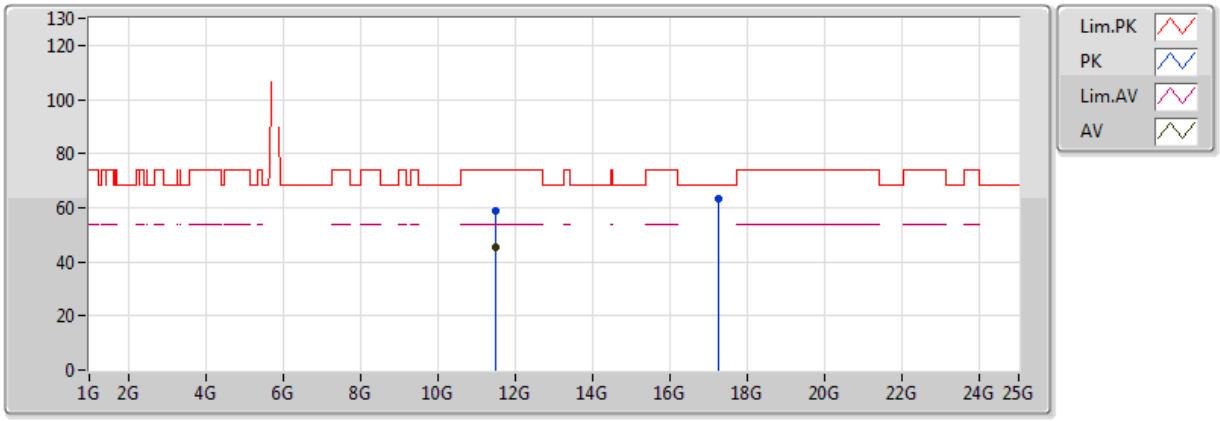


20171220
EUT Y_3TX
Setting 19.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.74G	107.55	Inf	-Inf	6.76	3	Horizontal	352	1.39
PK	5.568G	63.91	68.20	-4.29	6.09	3	Horizontal	352	1.39
PK	5.74G	117.14	Inf	-Inf	6.76	3	Horizontal	352	1.39
PK	5.928G	61.36	68.20	-6.84	7.26	3	Horizontal	352	1.39

802.11a_Nss1,(6Mbps)_3TX

5745MHz_TX

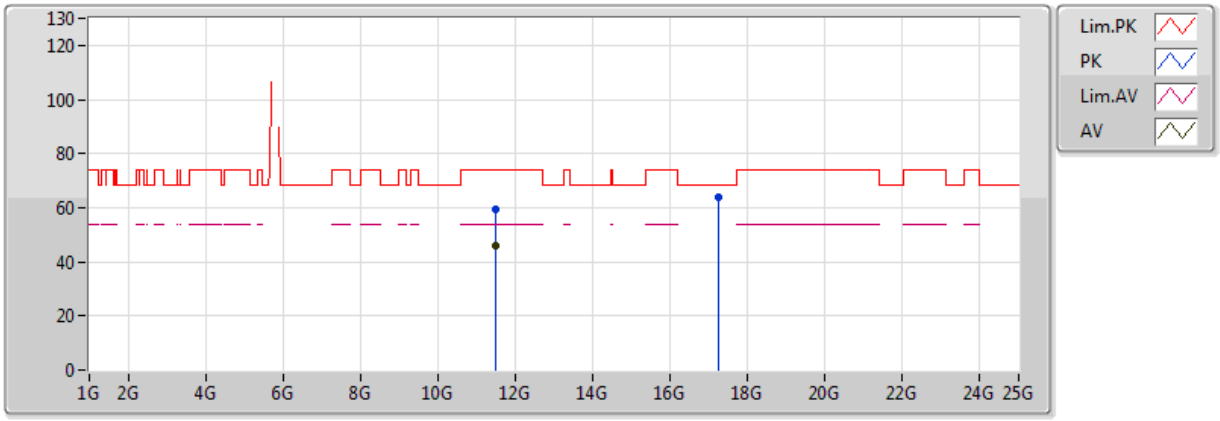


20171220
EUT Y_3TX
Setting 19.5
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.48928G	45.66	54.00	-8.34	13.18	3	Vertical	264	1.95
PK	11.48908G	58.80	74.00	-15.20	13.18	3	Vertical	264	1.95
PK	17.23452G	63.51	68.20	-4.69	20.11	3	Vertical	312	1.50

802.11a_Nss1,(6Mbps)_3TX

5745MHz_TX

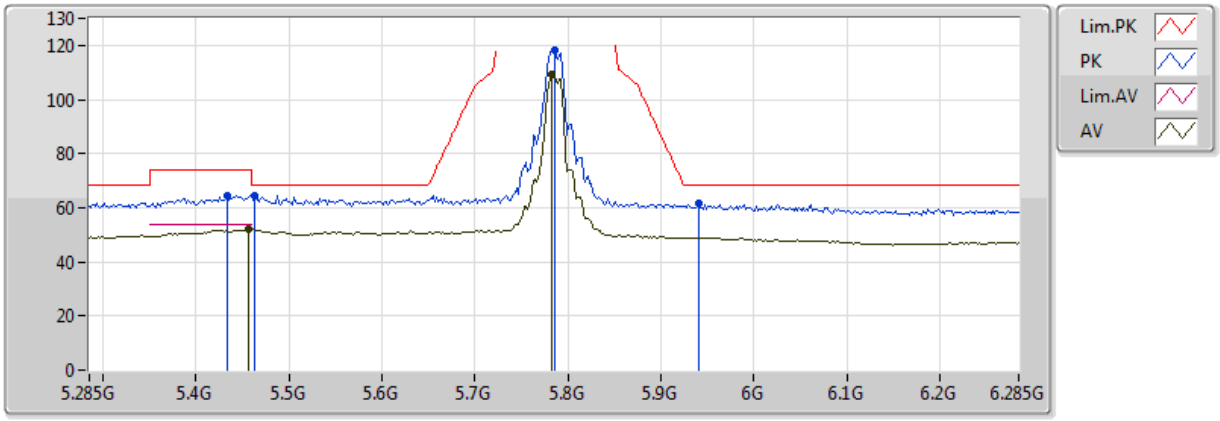


20171220
EUT Y_3TX
Setting 19.5
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.48688G	46.13	54.00	-7.87	13.18	3	Horizontal	319	1.50
PK	11.48696G	59.23	74.00	-14.77	13.18	3	Horizontal	319	1.50
PK	17.23244G	64.02	68.20	-4.18	20.10	3	Horizontal	191	1.50

802.11a_Nss1,(6Mbps)_3TX

5785MHz_TX

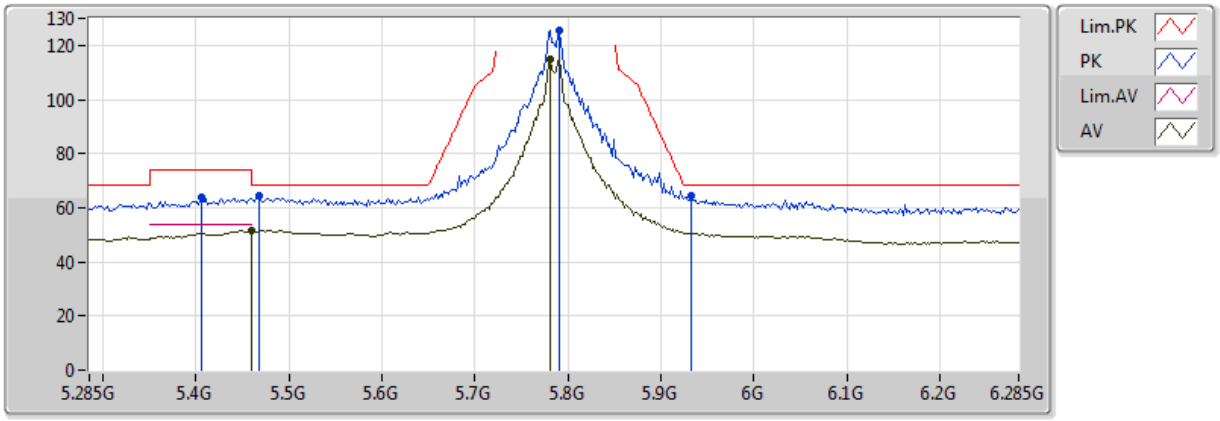


20171220
EUT Y_3TX
Setting 25
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.457G	52.30	54.00	-1.70	5.82	3	Vertical	1	1.50
AV	5.783G	109.36	Inf	-Inf	6.94	3	Vertical	1	1.50
PK	5.433G	64.60	74.00	-9.40	5.78	3	Vertical	1	1.50
PK	5.463G	64.63	68.20	-3.57	5.84	3	Vertical	1	1.50
PK	5.785G	118.41	Inf	-Inf	6.95	3	Vertical	1	1.50
PK	5.941G	61.40	68.20	-6.80	7.28	3	Vertical	1	1.50

802.11a_Nss1,(6Mbps)_3TX

5785MHz_TX

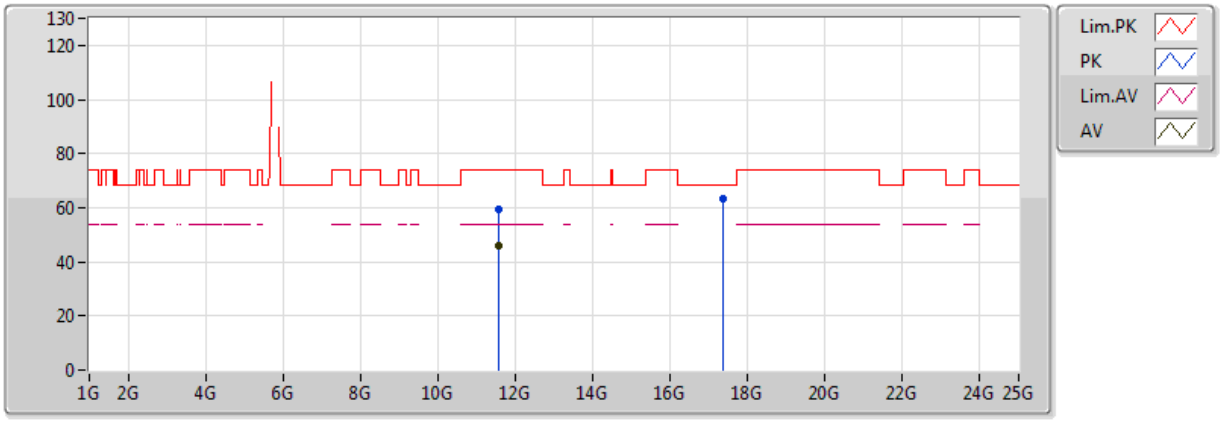


20171220
EUT Y_3TX
Setting 25
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.459995G	51.58	54.00	-2.42	5.83	3	Horizontal	200	1.56
AV	5.781G	114.80	Inf	-Inf	6.93	3	Horizontal	200	1.56
PK	5.405G	63.73	74.00	-10.27	5.72	3	Horizontal	200	1.56
PK	5.467G	64.63	68.20	-3.57	5.84	3	Horizontal	200	1.56
PK	5.791G	125.44	Inf	-Inf	6.97	3	Horizontal	200	1.56
PK	5.933G	64.69	68.20	-3.51	7.27	3	Horizontal	200	1.56

802.11a_Nss1,(6Mbps)_3TX

5785MHz_TX

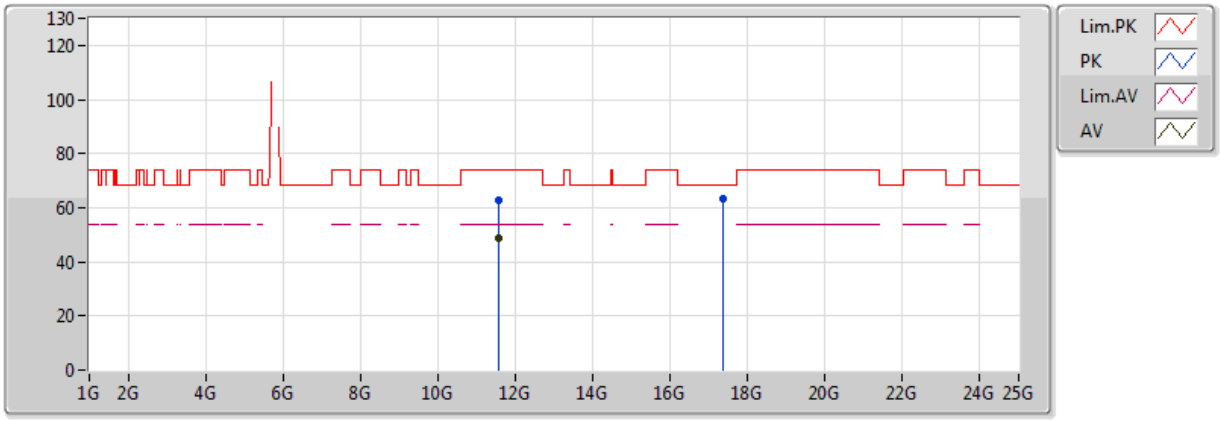


20171220
EUT Y_3TX
Setting 25
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.57154G	45.92	54.00	-8.08	13.18	3	Vertical	274	2.42
PK	11.57048G	59.14	74.00	-14.86	13.18	3	Vertical	274	2.42
PK	17.35592G	63.25	68.20	-4.95	20.41	3	Vertical	217	1.50

802.11a_Nss1,(6Mbps)_3TX

5785MHz_TX

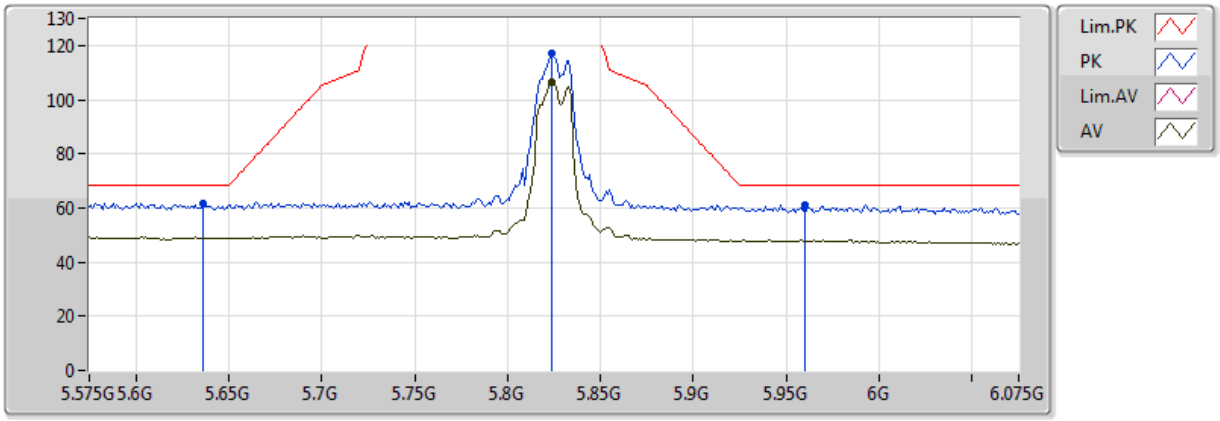


20171220
EUT Y_3TX
Setting 25
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.57062G	48.80	54.00	-5.20	13.18	3	Horizontal	289	2.53
PK	11.57064G	62.79	74.00	-11.21	13.18	3	Horizontal	289	2.53
PK	17.35376G	63.16	68.20	-5.04	20.40	3	Horizontal	360	1.50

802.11a_Nss1,(6Mbps)_3TX

5825MHz_TX

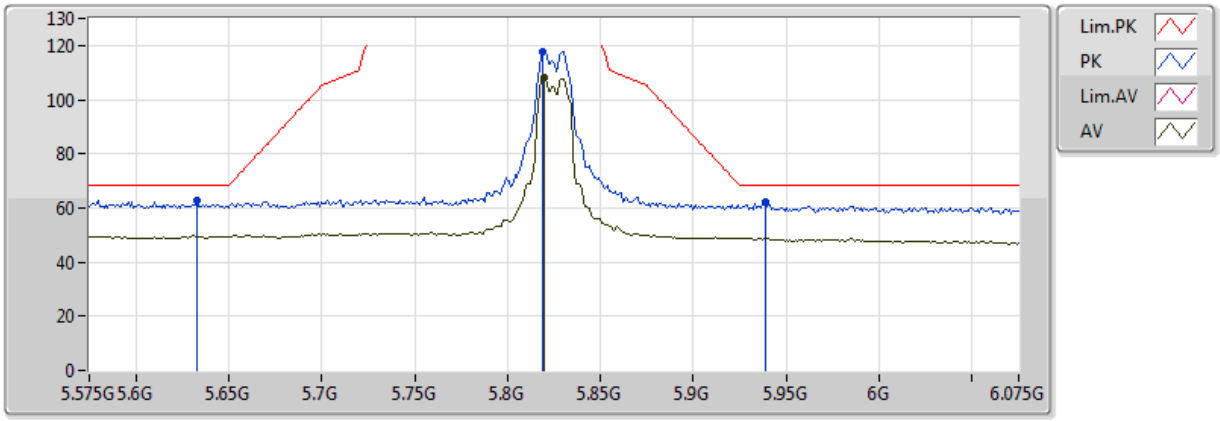


20171220
EUT Y_3TX
Setting 21
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.824G	106.58	Inf	-Inf	7.06	3	Vertical	0	1.84
PK	5.636G	61.80	68.20	-6.40	6.33	3	Vertical	0	1.84
PK	5.824G	117.10	Inf	-Inf	7.06	3	Vertical	0	1.84
PK	5.96G	61.04	68.20	-7.16	7.32	3	Vertical	0	1.84

802.11a_Nss1,(6Mbps)_3TX

5825MHz_TX

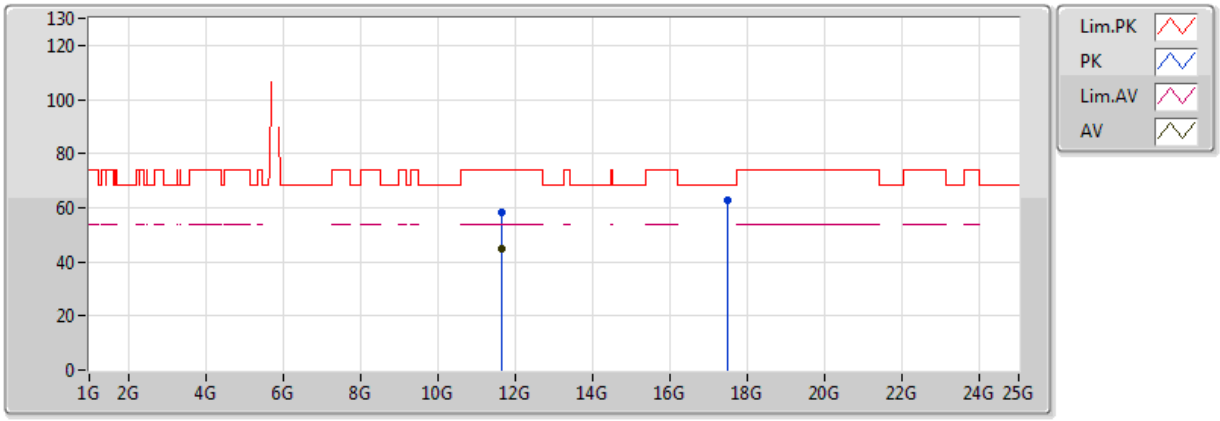


20171220
EUT Y_3TX
Setting 21
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.82G	108.35	Inf	-Inf	7.05	3	Horizontal	351	1.24
PK	5.633G	62.98	68.20	-5.22	6.32	3	Horizontal	351	1.24
PK	5.819G	117.86	Inf	-Inf	7.05	3	Horizontal	351	1.24
PK	5.939G	62.19	68.20	-6.01	7.28	3	Horizontal	351	1.24

802.11a_Nss1,(6Mbps)_3TX

5825MHz_TX

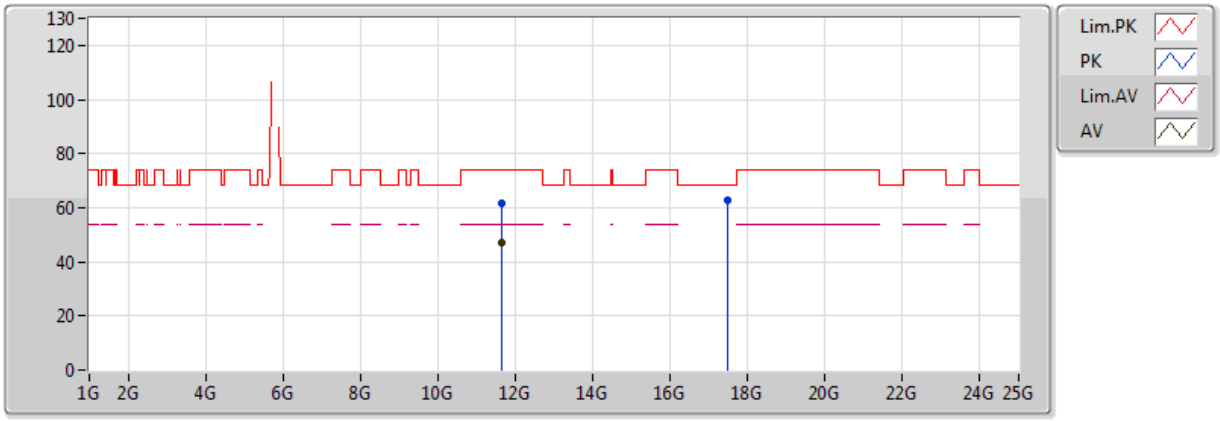


20171220
EUT Y_3TX
Setting 21
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.64964G	44.61	54.00	-9.39	13.19	3	Vertical	228	1.50
PK	11.65052G	58.07	74.00	-15.93	13.19	3	Vertical	228	1.50
PK	17.47128G	62.70	68.20	-5.50	20.69	3	Vertical	294	1.50

802.11a_Nss1,(6Mbps)_3TX

5825MHz_TX

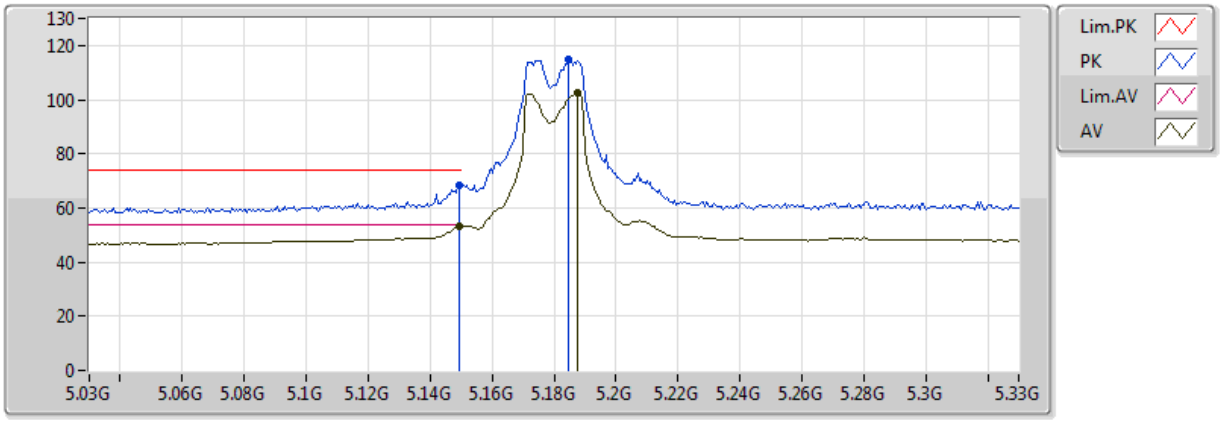


20171220
EUT Y_3TX
Setting 21
01-M-01
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.65128G	47.22	54.00	-6.78	13.19	3	Horizontal	174	1.23
PK	11.65216G	61.54	74.00	-12.46	13.19	3	Horizontal	174	1.23
PK	17.4846G	62.97	68.20	-5.23	20.72	3	Horizontal	337	1.50

802.11ac VHT20_Nss1,(MCS0)_3TX

5180MHz_TX

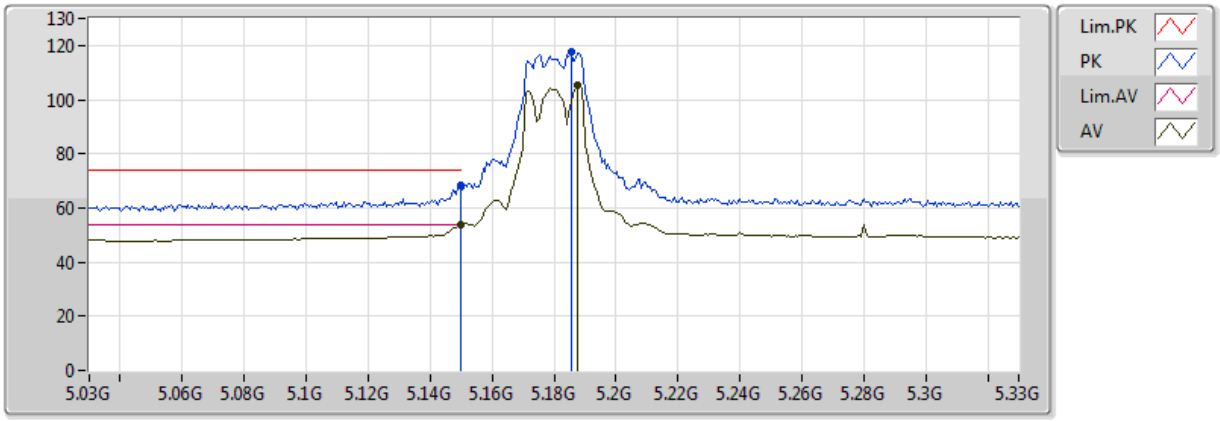


20180409
EUT Y_3TX
Setting 20
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1494G	52.98	54.00	-1.02	8.24	3	Vertical	82	1.50
AV	5.1878G	102.50	Inf	-Inf	8.32	3	Vertical	82	1.50
PK	5.1494G	68.57	74.00	-5.43	8.24	3	Vertical	82	1.50
PK	5.1848G	114.98	Inf	-Inf	8.32	3	Vertical	82	1.50

802.11ac VHT20_Nss1,(MCS0)_3TX

5180MHz_TX

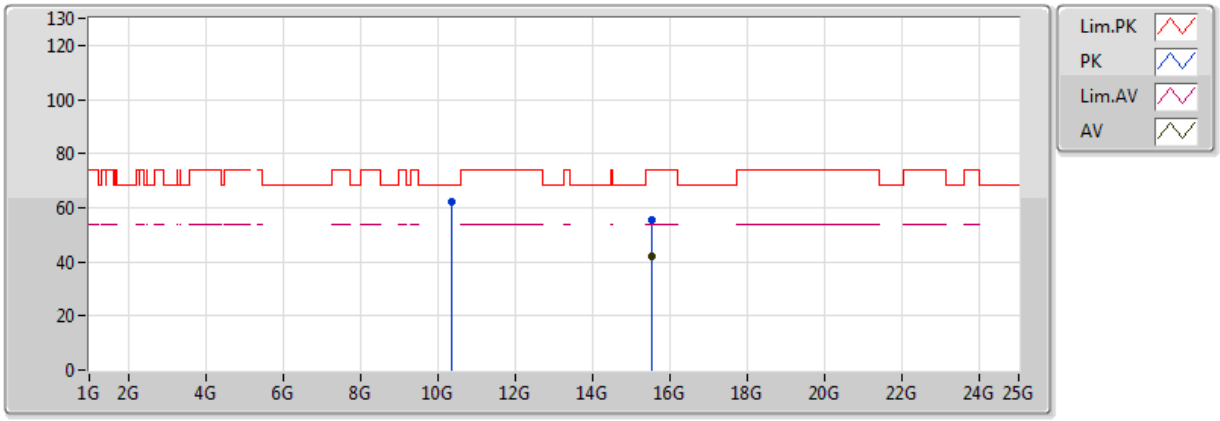


20180409
EUT Y_3TX
Setting 20
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.149995G	53.81	54.00	-0.19	8.24	3	Horizontal	225	1.62
AV	5.1878G	105.31	Inf	-Inf	8.32	3	Horizontal	225	1.62
PK	5.149995G	68.45	74.00	-5.55	8.24	3	Horizontal	225	1.62
PK	5.1854G	117.43	Inf	-Inf	8.32	3	Horizontal	225	1.62

802.11ac VHT20_Nss1,(MCS0)_3TX

5180MHz_TX

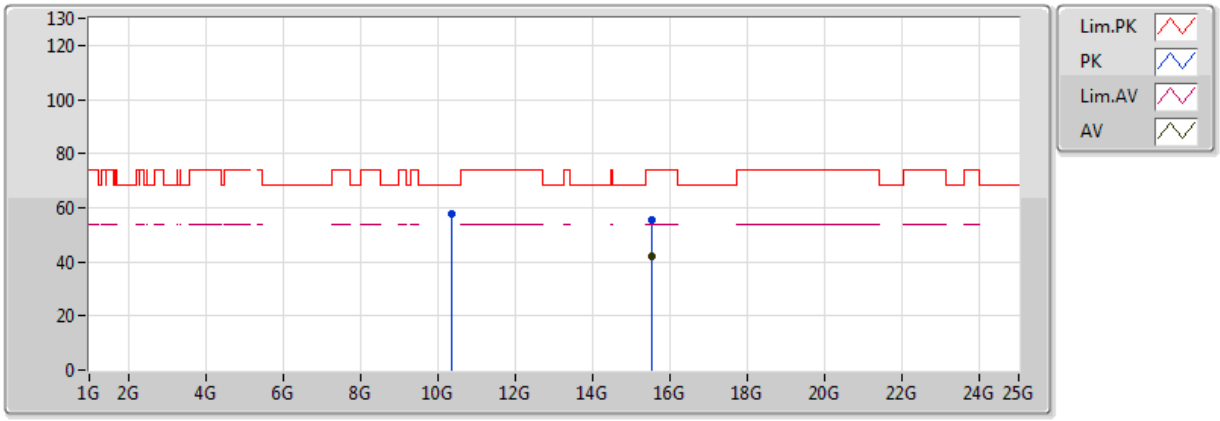


20180409
EUT Y_3TX
Setting 20
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.54176G	41.84	54.00	-12.16	16.06	3	Vertical	347	1.50
PK	10.3606G	61.96	68.20	-6.24	13.93	3	Vertical	297	1.52
PK	15.54224G	55.47	74.00	-18.53	16.06	3	Vertical	347	1.50

802.11ac VHT20_Nss1,(MCS0)_3TX

5180MHz_TX

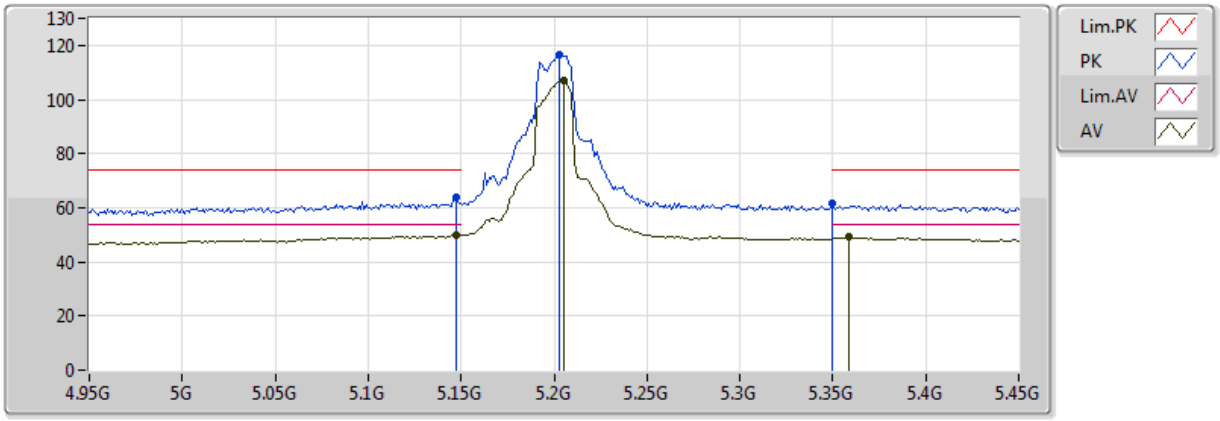


20180409
EUT Y_3TX
Setting 20
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.53762G	41.89	54.00	-12.11	16.07	3	Horizontal	184	1.96
PK	10.3511G	57.82	68.20	-10.38	13.94	3	Horizontal	102	1.66
PK	15.53694G	55.28	74.00	-18.72	16.07	3	Horizontal	184	1.96

802.11ac VHT20_Nss1,(MCS0)_3TX

5200MHz_TX

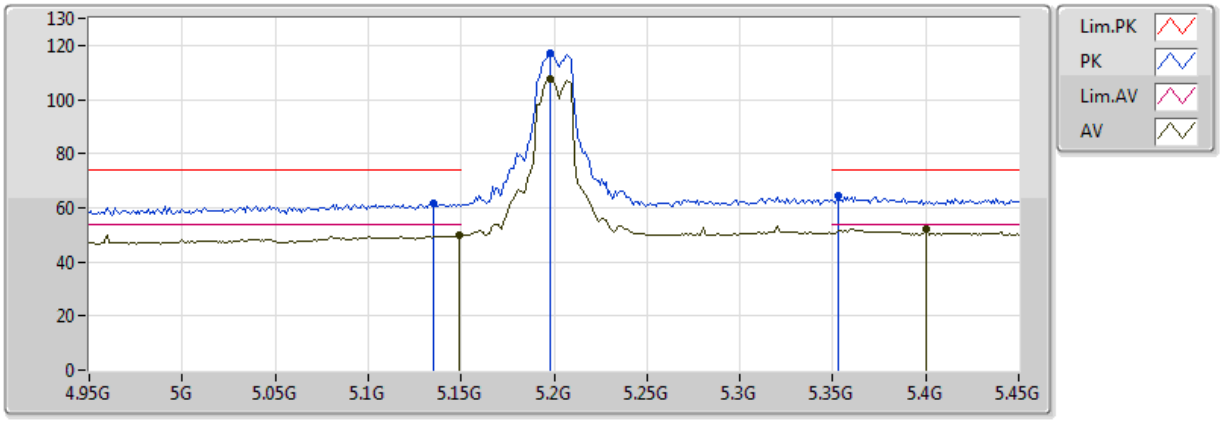


20180409
EUT Y_3TX
Setting 20.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.147G	50.06	54.00	-3.94	8.23	3	Vertical	48	1.82
AV	5.205G	106.96	Inf	-Inf	8.36	3	Vertical	48	1.82
AV	5.359G	49.11	54.00	-4.89	8.65	3	Vertical	48	1.82
PK	5.147G	64.13	74.00	-9.87	8.23	3	Vertical	48	1.82
PK	5.203G	116.62	Inf	-Inf	8.36	3	Vertical	48	1.82
PK	5.350005G	61.70	74.00	-12.30	8.63	3	Vertical	48	1.82

802.11ac VHT20_Nss1,(MCS0)_3TX

5200MHz_TX

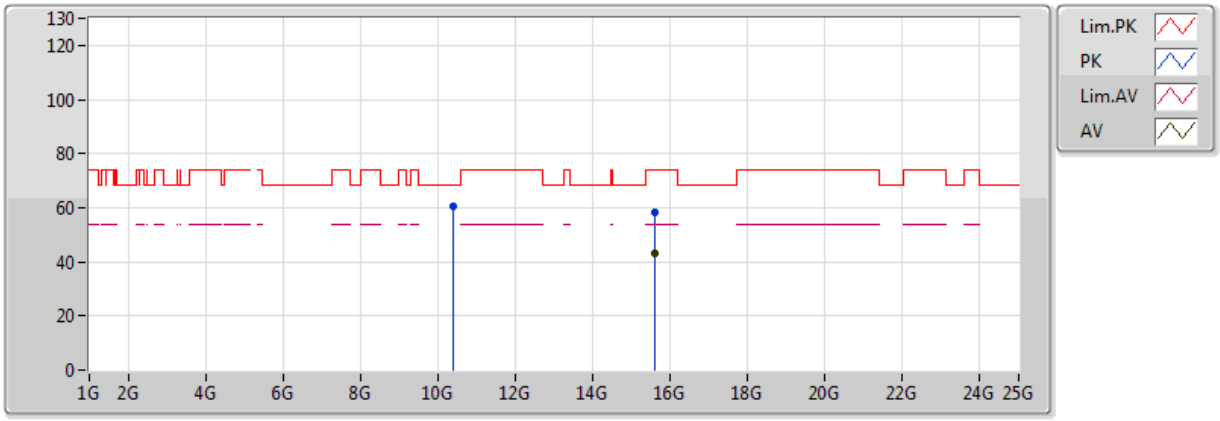


20180409
EUT Y_3TX
Setting 20.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.149G	49.73	54.00	-4.27	8.24	3	Horizontal	249	1.56
AV	5.198G	107.57	Inf	-Inf	8.35	3	Horizontal	249	1.56
AV	5.4G	52.01	54.00	-1.99	8.73	3	Horizontal	249	1.56
PK	5.135G	61.89	74.00	-12.11	8.21	3	Horizontal	249	1.56
PK	5.198G	117.00	Inf	-Inf	8.35	3	Horizontal	249	1.56
PK	5.353G	64.63	74.00	-9.37	8.64	3	Horizontal	249	1.56

802.11ac VHT20_Nss1,(MCS0)_3TX

5200MHz_TX

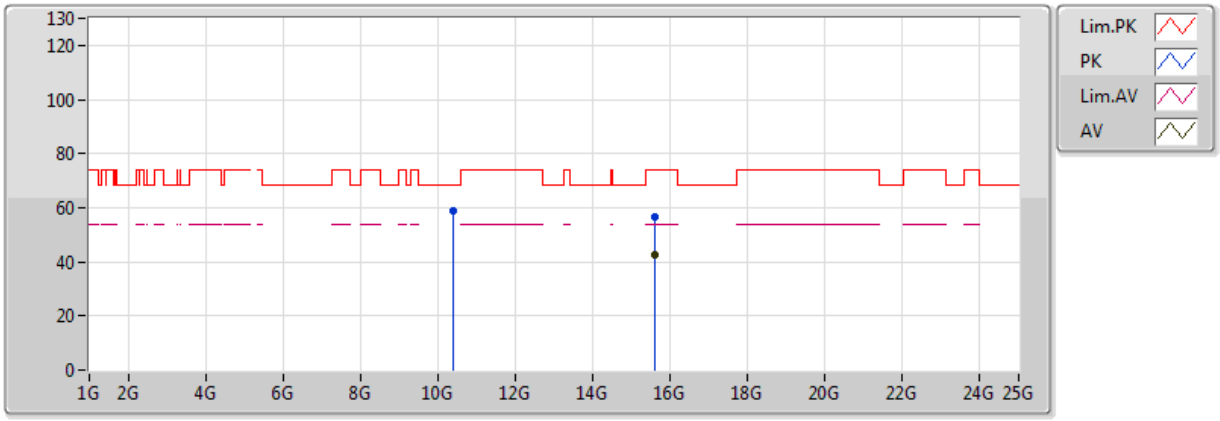


20180409
EUT Y_3TX
Setting 20.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.5984G	43.38	54.00	-10.62	15.96	3	Vertical	327	1.40
PK	10.4005G	60.36	68.20	-7.84	13.92	3	Vertical	302	1.49
PK	15.59768G	58.27	74.00	-15.73	15.96	3	Vertical	327	1.40

802.11ac VHT20_Nss1,(MCS0)_3TX

5200MHz_TX

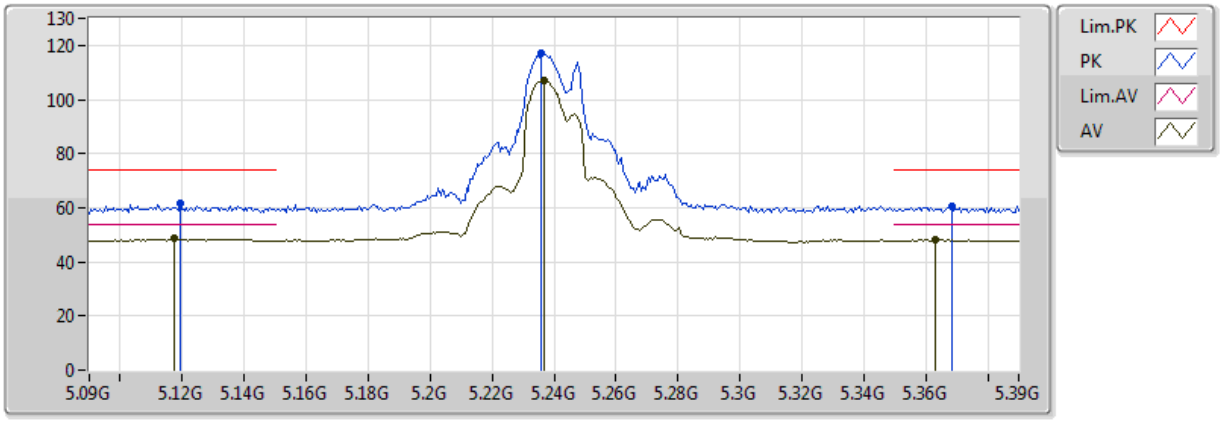


20180409
EUT Y_3TX
Setting 20.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.60532G	42.73	54.00	-11.27	15.94	3	Horizontal	318	2.53
PK	10.4009G	58.91	68.20	-9.29	13.92	3	Horizontal	28	2.90
PK	15.60644G	56.49	74.00	-17.51	15.94	3	Horizontal	318	2.53

802.11ac VHT20_Nss1,(MCS0)_3TX

5240MHz_TX

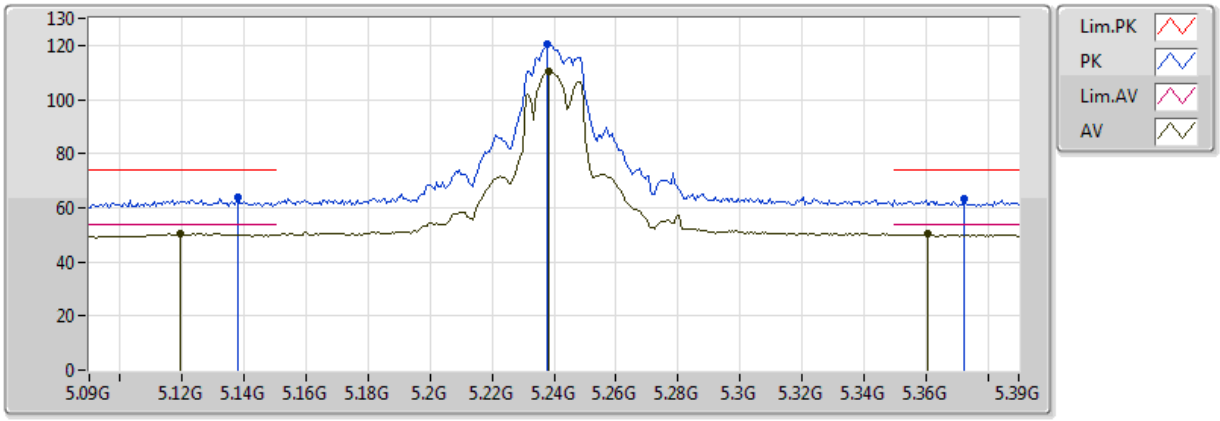


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1176G	48.59	54.00	-5.41	8.17	3	Vertical	269	1.46
AV	5.237G	107.06	Inf	-Inf	8.42	3	Vertical	269	1.46
AV	5.363G	48.22	54.00	-5.78	8.66	3	Vertical	269	1.46
PK	5.1194G	61.72	74.00	-12.28	8.17	3	Vertical	269	1.46
PK	5.2358G	117.17	Inf	-Inf	8.42	3	Vertical	269	1.46
PK	5.3684G	60.52	74.00	-13.48	8.67	3	Vertical	269	1.46

802.11ac VHT20_Nss1,(MCS0)_3TX

5240MHz_TX

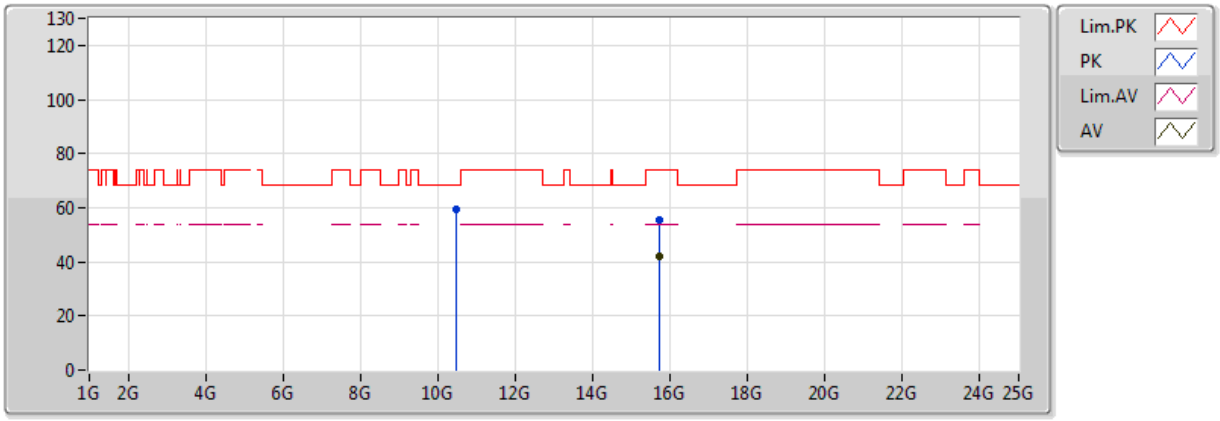


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1194G	50.34	54.00	-3.66	8.17	3	Horizontal	228	1.56
AV	5.2382G	110.55	Inf	-Inf	8.42	3	Horizontal	228	1.56
AV	5.3606G	50.22	54.00	-3.78	8.65	3	Horizontal	228	1.56
PK	5.138G	63.73	74.00	-10.27	8.21	3	Horizontal	228	1.56
PK	5.2376G	120.54	Inf	-Inf	8.42	3	Horizontal	228	1.56
PK	5.3726G	63.22	74.00	-10.78	8.67	3	Horizontal	228	1.56

802.11ac VHT20_Nss1,(MCS0)_3TX

5240MHz_TX

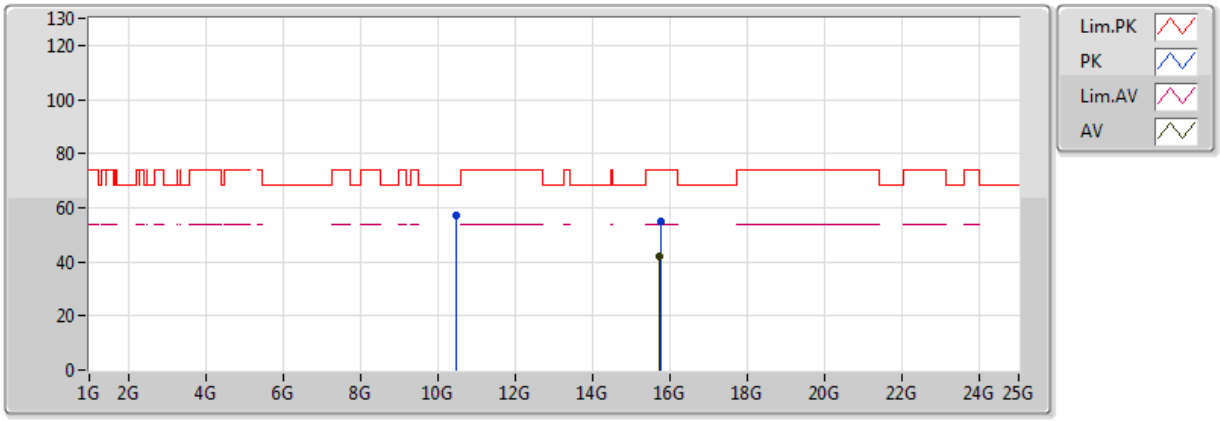


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.7205G	41.89	54.00	-12.11	15.73	3	Vertical	284	1.76
PK	10.4808G	59.17	68.20	-9.03	13.89	3	Vertical	299	1.50
PK	15.7222G	55.26	74.00	-18.74	15.73	3	Vertical	284	1.76

802.11ac VHT20_Nss1,(MCS0)_3TX

5240MHz_TX

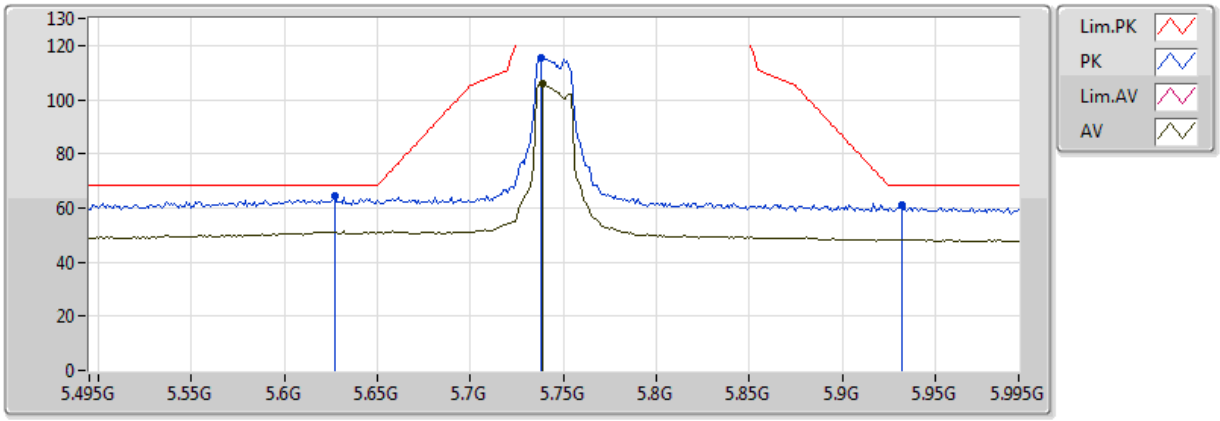


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.7209G	41.94	54.00	-12.06	15.73	3	Horizontal	240	1.75
PK	10.4799G	57.31	68.20	-10.89	13.89	3	Horizontal	36	2.90
PK	15.7409G	54.85	74.00	-19.15	15.70	3	Horizontal	240	1.75

802.11ac VHT20_Nss1,(MCS0)_3TX

5745MHz_TX

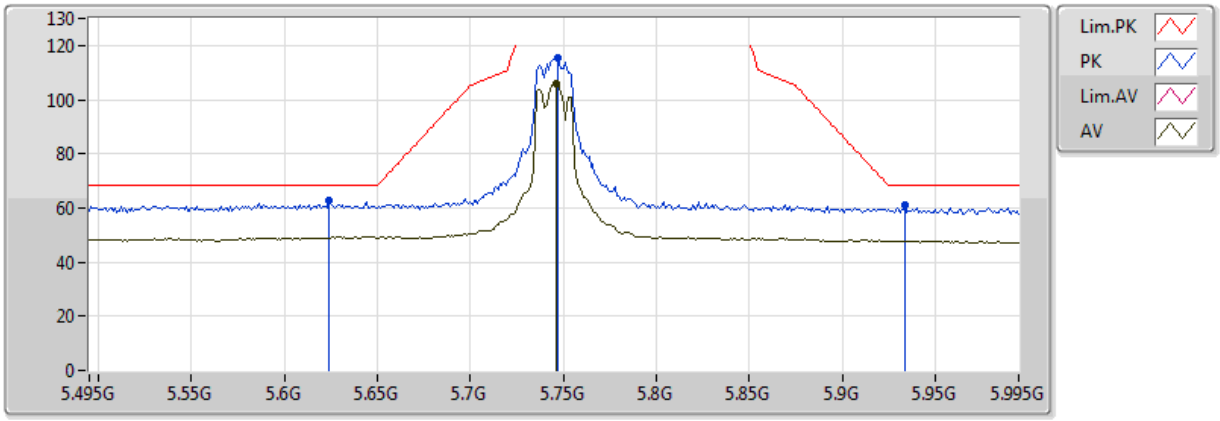


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.739G	105.90	Inf	-Inf	9.10	3	Vertical	2	1.09
PK	5.627G	64.44	68.20	-3.76	9.02	3	Vertical	2	1.09
PK	5.738G	115.70	Inf	-Inf	9.10	3	Vertical	2	1.09
PK	5.932G	60.98	68.20	-7.22	9.20	3	Vertical	2	1.09

802.11ac VHT20_Nss1,(MCS0)_3TX

5745MHz_TX

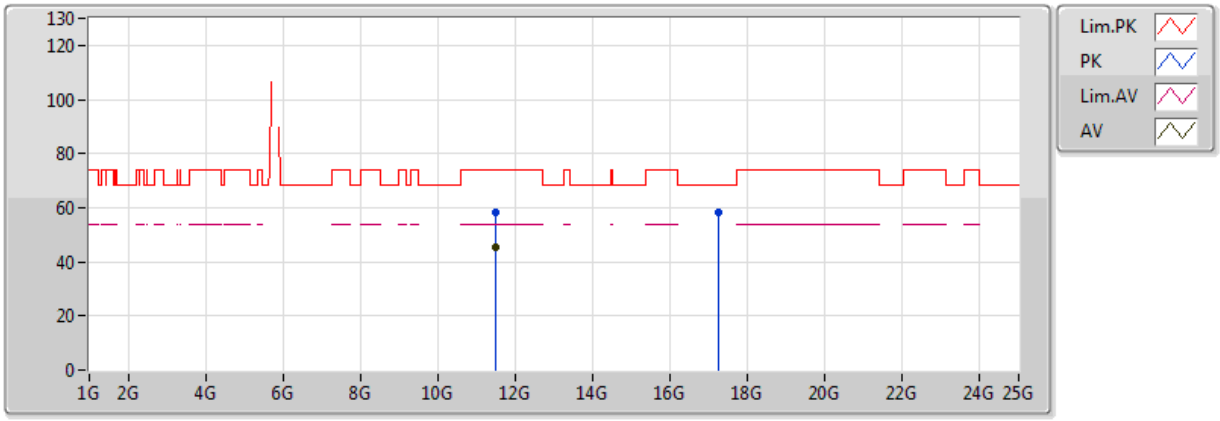


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.746G	105.75	Inf	-Inf	9.11	3	Horizontal	322	1.65
PK	5.624G	62.73	68.20	-5.47	9.01	3	Horizontal	322	1.65
PK	5.747G	115.34	Inf	-Inf	9.11	3	Horizontal	322	1.65
PK	5.934G	61.04	68.20	-7.16	9.20	3	Horizontal	322	1.65

802.11ac VHT20_Nss1,(MCS0)_3TX

5745MHz_TX

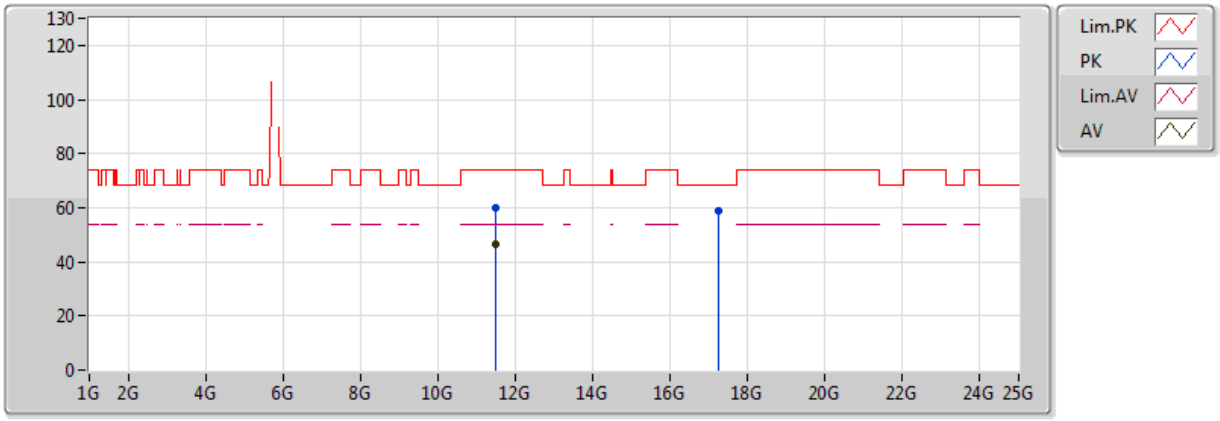


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.49024G	45.12	54.00	-8.88	14.17	3	Vertical	306	1.63
PK	11.48994G	58.46	74.00	-15.54	14.17	3	Vertical	306	1.63
PK	17.24488G	58.51	68.20	-9.69	20.19	3	Vertical	85	1.50

802.11ac VHT20_Nss1,(MCS0)_3TX

5745MHz_TX

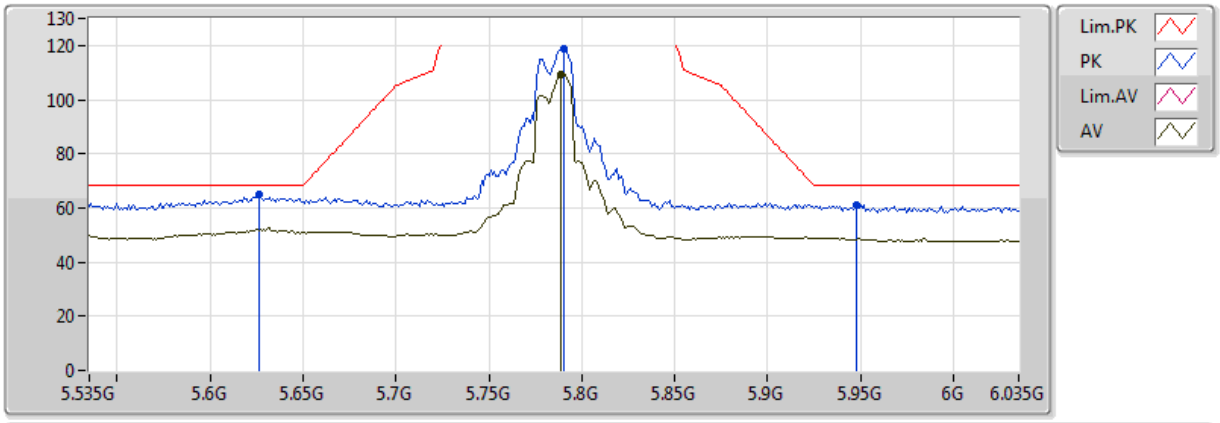


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.4849G	46.32	54.00	-7.68	14.16	3	Horizontal	285	1.50
PK	11.48472G	59.69	74.00	-14.31	14.16	3	Horizontal	285	1.50
PK	17.23668G	58.78	68.20	-9.42	20.14	3	Horizontal	236	1.50

802.11ac VHT20_Nss1,(MCS0)_3TX

5785MHz_TX

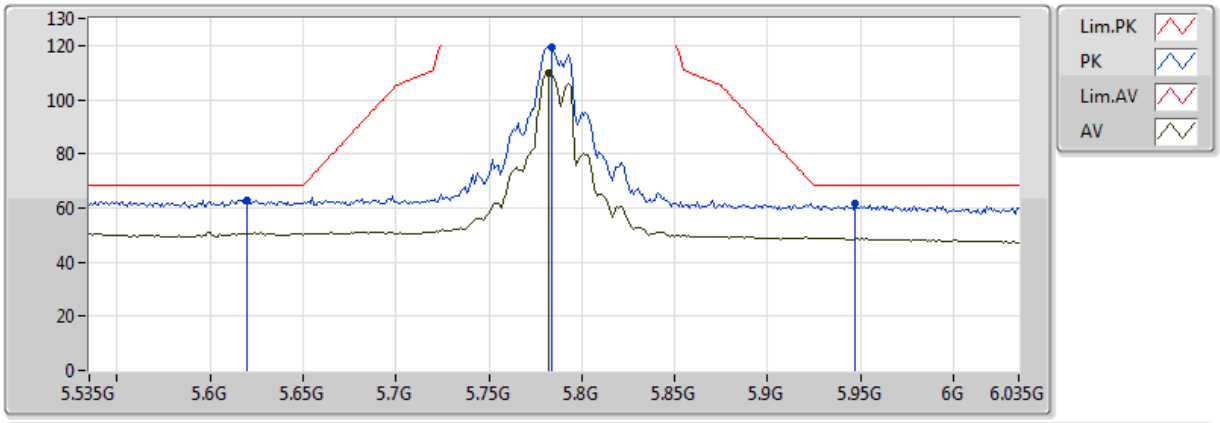


20180409
EUT Y_3TX
Setting 25.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.789G	109.26	Inf	-Inf	9.14	3	Vertical	30	2.88
PK	5.626G	64.74	68.20	-3.46	9.02	3	Vertical	30	2.88
PK	5.79G	118.99	Inf	-Inf	9.14	3	Vertical	30	2.88
PK	5.948G	61.28	68.20	-6.92	9.21	3	Vertical	30	2.88

802.11ac VHT20_Nss1,(MCS0)_3TX

5785MHz_TX

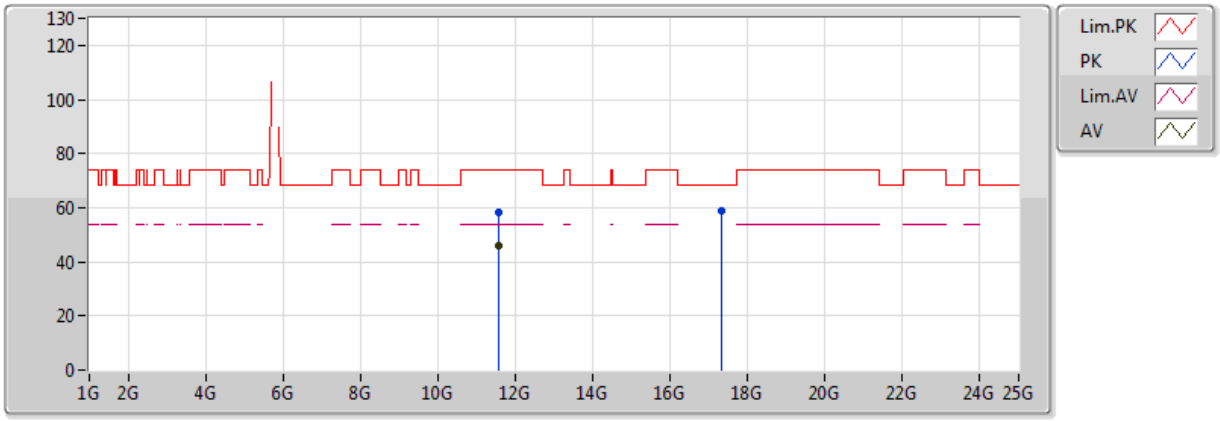


20180409
EUT Y_3TX
Setting 25.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.782G	109.92	Inf	-Inf	9.14	3	Horizontal	310	1.49
PK	5.62G	62.89	68.20	-5.31	9.01	3	Horizontal	310	1.49
PK	5.784G	119.52	Inf	-Inf	9.14	3	Horizontal	310	1.49
PK	5.947G	61.51	68.20	-6.69	9.21	3	Horizontal	310	1.49

802.11ac VHT20_Nss1,(MCS0)_3TX

5785MHz_TX

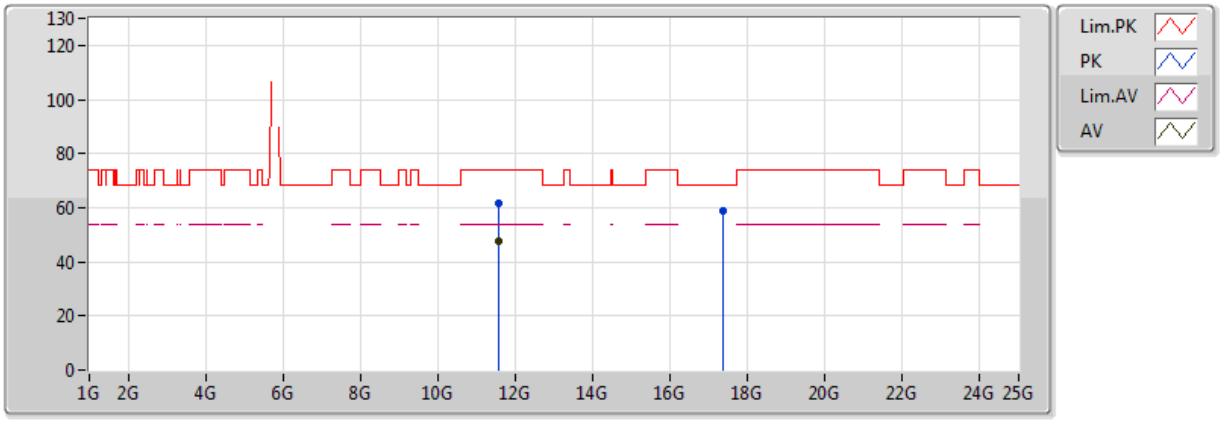


20180409
EUT Y_3TX
Setting 25.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.5696G	45.80	54.00	-8.20	14.24	3	Vertical	300	1.75
PK	11.5688G	58.50	74.00	-15.50	14.24	3	Vertical	300	1.75
PK	17.34168G	58.63	68.20	-9.57	20.72	3	Vertical	256	1.47

802.11ac VHT20_Nss1,(MCS0)_3TX

5785MHz_TX

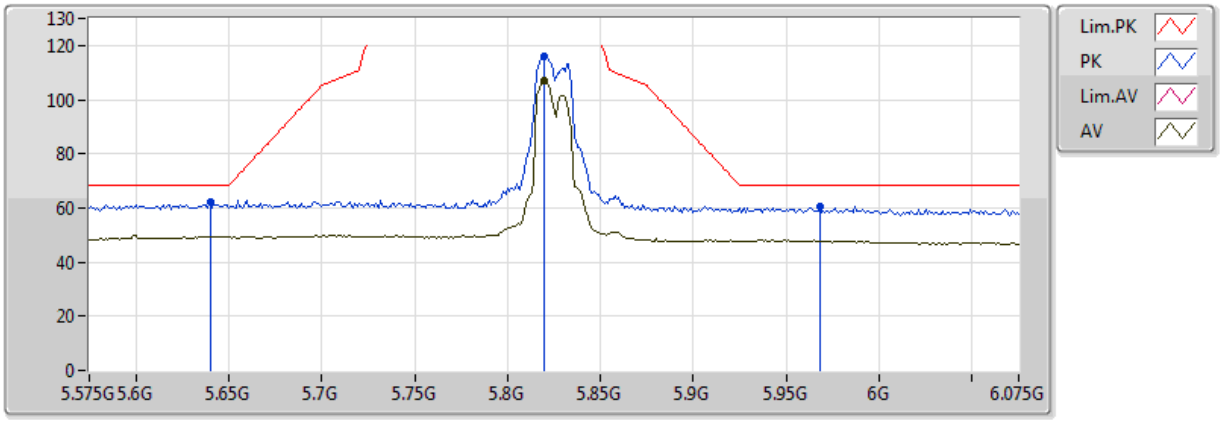


20180409
EUT Y_3TX
Setting 25.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.56508G	47.81	54.00	-6.19	14.24	3	Horizontal	284	1.51
PK	11.56442G	61.44	74.00	-12.56	14.24	3	Horizontal	284	1.51
PK	17.36454G	58.56	68.20	-9.64	20.85	3	Horizontal	172	1.73

802.11ac VHT20_Nss1,(MCS0)_3TX

5825MHz_TX

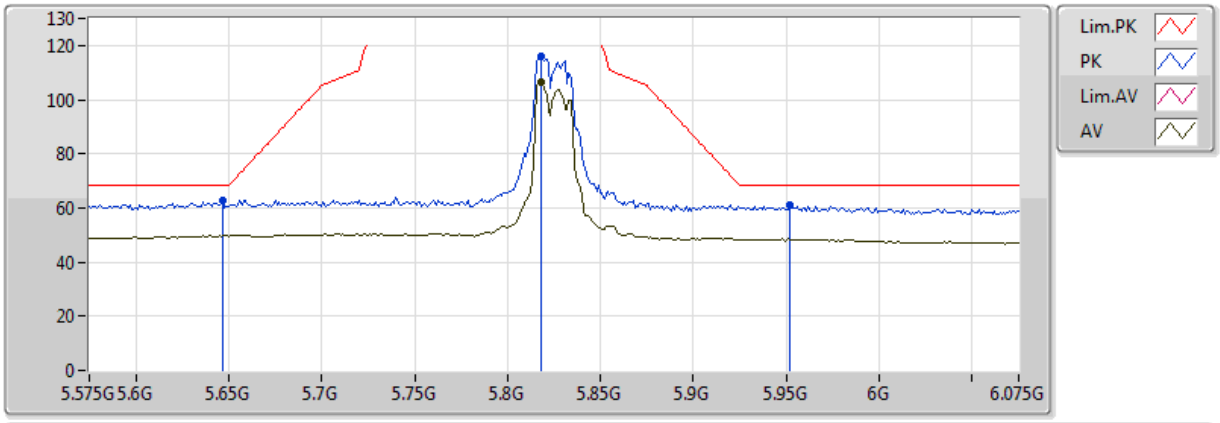


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.82G	106.77	Inf	-Inf	9.16	3	Vertical	279	1.32
PK	5.64G	61.95	68.20	-6.25	9.03	3	Vertical	279	1.32
PK	5.82G	116.22	Inf	-Inf	9.16	3	Vertical	279	1.32
PK	5.968G	60.49	68.20	-7.71	9.22	3	Vertical	279	1.32

802.11ac VHT20_Nss1,(MCS0)_3TX

5825MHz_TX

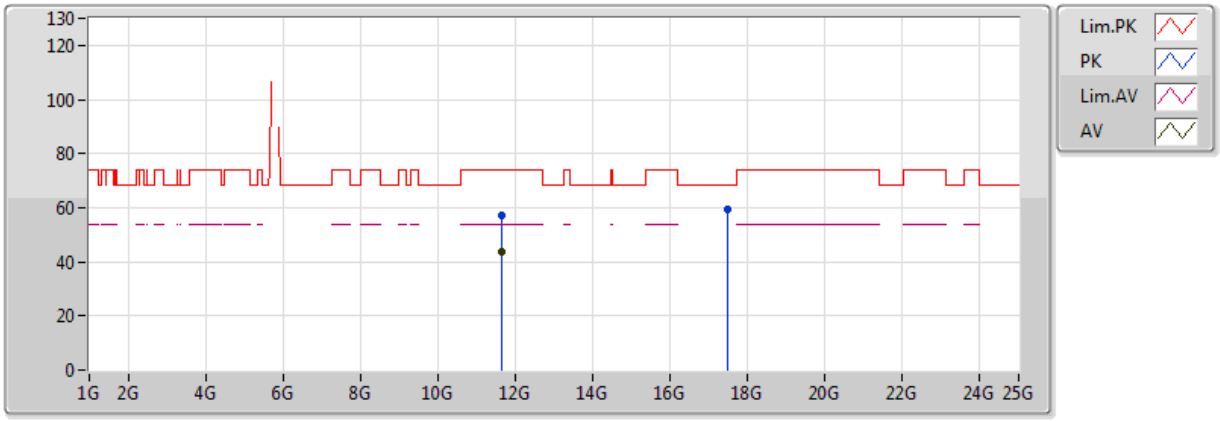


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.818G	106.52	Inf	-Inf	9.16	3	Horizontal	285	1.31
PK	5.647G	62.75	68.20	-5.45	9.03	3	Horizontal	285	1.31
PK	5.818G	116.06	Inf	-Inf	9.16	3	Horizontal	285	1.31
PK	5.952G	60.83	68.20	-7.37	9.21	3	Horizontal	285	1.31

802.11ac VHT20_Nss1,(MCS0)_3TX

5825MHz_TX

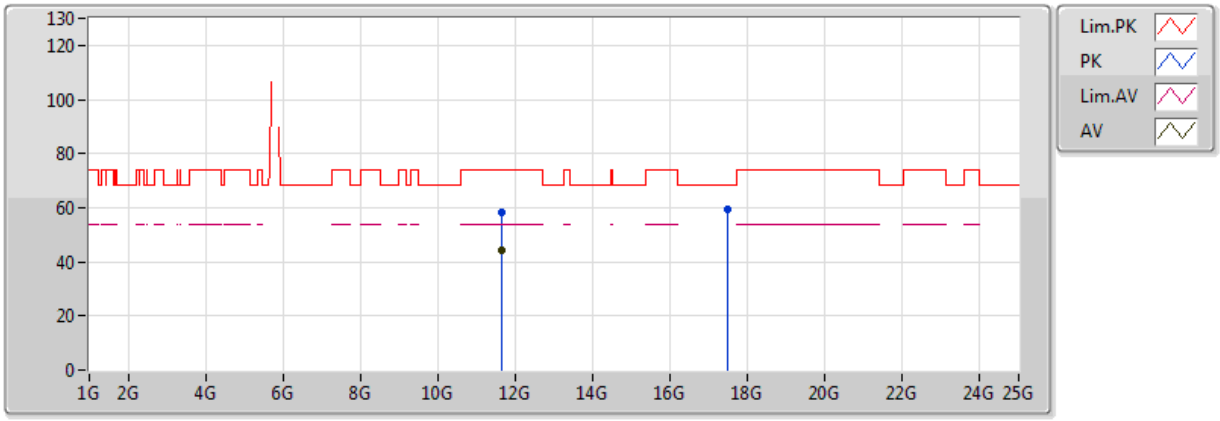


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.64928G	43.74	54.00	-10.26	14.31	3	Vertical	250	1.87
PK	11.64792G	57.10	74.00	-16.90	14.31	3	Vertical	250	1.87
PK	17.47476G	59.27	68.20	-8.93	21.45	3	Vertical	93	1.44

802.11ac VHT20_Nss1,(MCS0)_3TX

5825MHz_TX

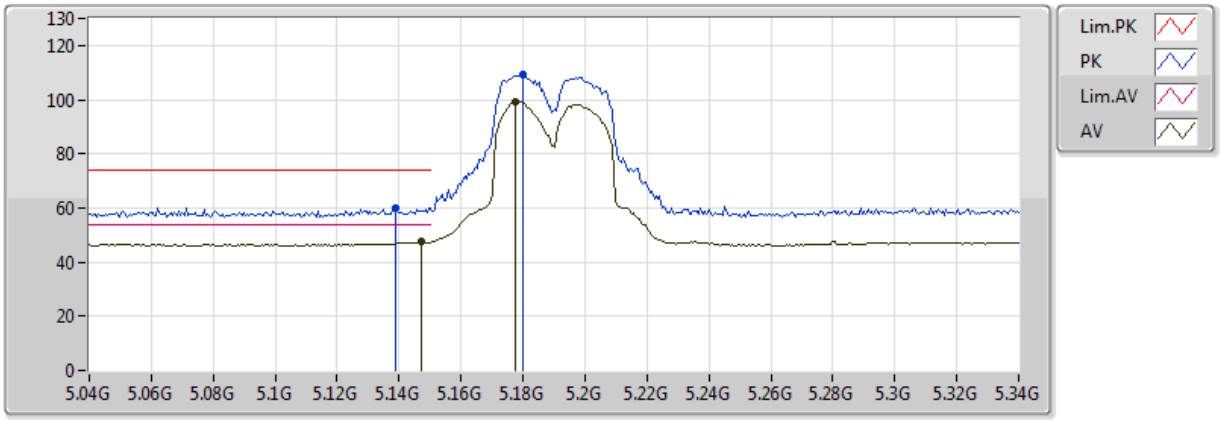


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.64176G	44.22	54.00	-9.78	14.31	3	Horizontal	287	1.62
PK	11.66G	58.04	74.00	-15.96	14.32	3	Horizontal	287	1.62
PK	17.48168G	59.58	68.20	-8.62	21.49	3	Horizontal	290	1.58

802.11ac VHT40_Nss1,(MCS0)_3TX

5190MHz_TX

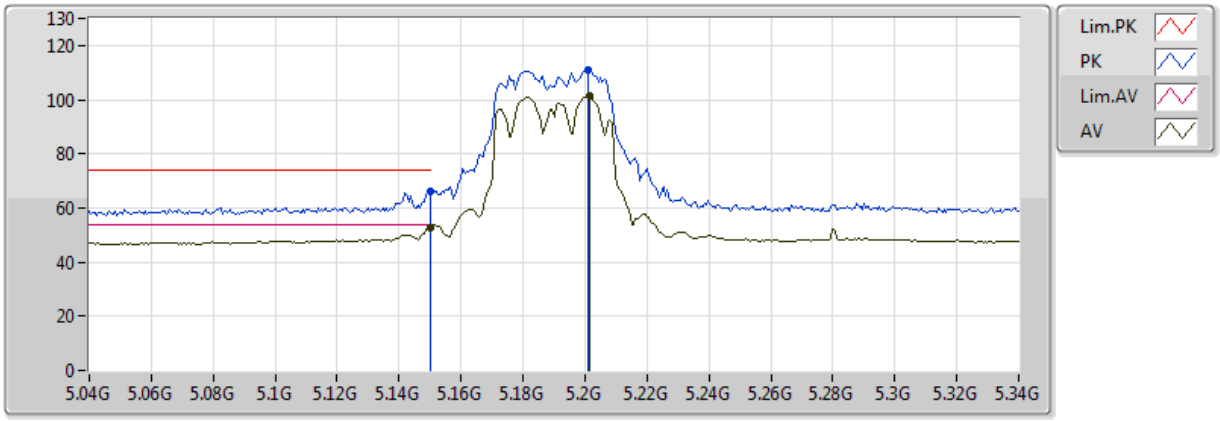


20180409
EUT Y_3TX
Setting 17.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1474G	47.42	54.00	-6.58	8.24	3	Vertical	8	2.93
AV	5.1774G	99.23	Inf	-Inf	8.30	3	Vertical	8	2.93
PK	5.139G	60.18	74.00	-13.82	8.22	3	Vertical	8	2.93
PK	5.1798G	109.02	Inf	-Inf	8.31	3	Vertical	8	2.93

802.11ac VHT40_Nss1,(MCS0)_3TX

5190MHz_TX

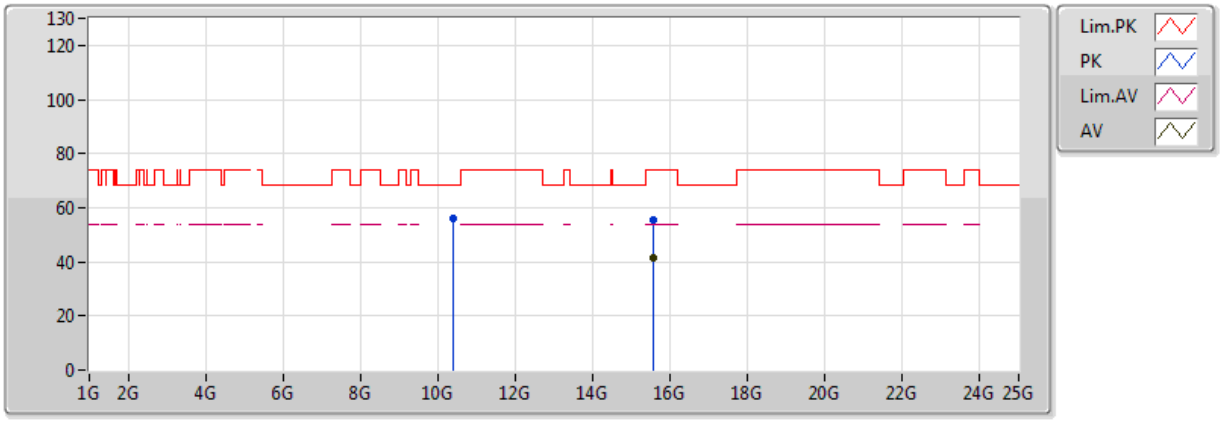


20180409
EUT Y_3TX
Setting 17.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.149995G	52.68	54.00	-1.32	8.24	3	Horizontal	218	1.70
AV	5.2014G	101.27	Inf	-Inf	8.35	3	Horizontal	218	1.70
PK	5.149995G	66.10	74.00	-7.90	8.24	3	Horizontal	218	1.70
PK	5.2008G	111.11	Inf	-Inf	8.35	3	Horizontal	218	1.70

802.11ac VHT40_Nss1,(MCS0)_3TX

5190MHz_TX

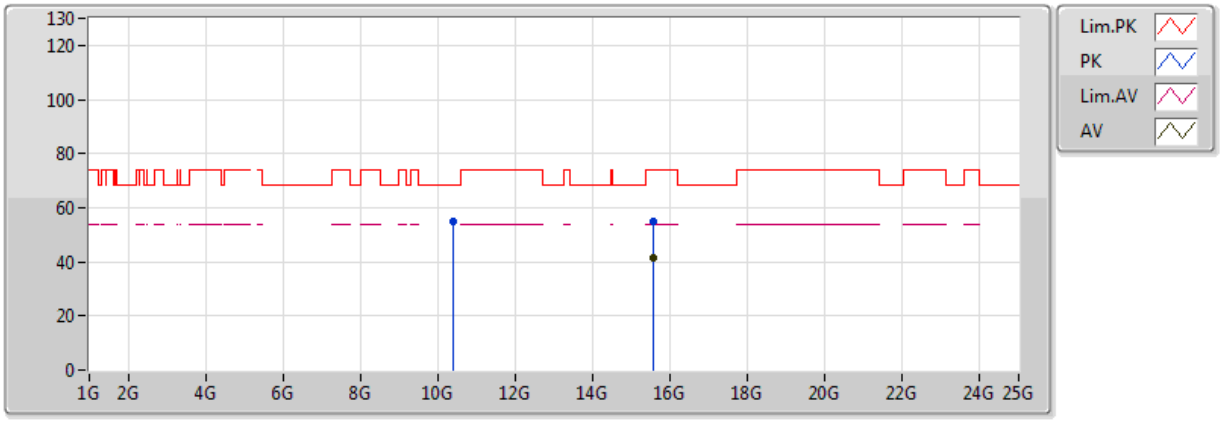


20180409
EUT Y_3TX
Setting 17.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.56008G	41.68	54.00	-12.32	16.03	3	Vertical	198	1.65
PK	10.37872G	56.24	68.20	-11.96	13.93	3	Vertical	274	1.48
PK	15.56036G	55.36	74.00	-18.64	16.03	3	Vertical	198	1.65

802.11ac VHT40_Nss1,(MCS0)_3TX

5190MHz_TX

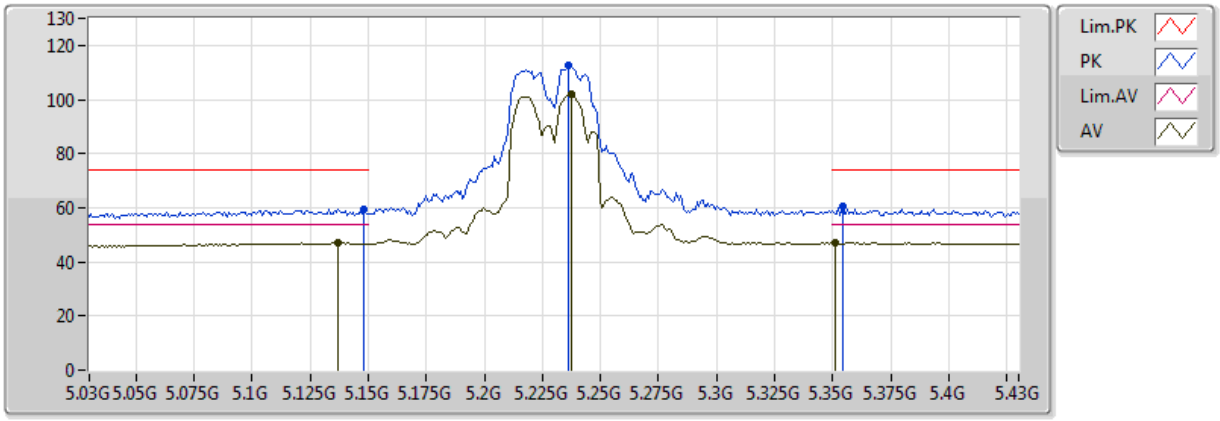


20180409
EUT Y_3TX
Setting 17.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.57808G	41.52	54.00	-12.48	15.99	3	Horizontal	193	1.78
PK	10.38116G	54.78	68.20	-13.42	13.93	3	Horizontal	42	2.91
PK	15.56092G	55.00	74.00	-19.00	16.02	3	Horizontal	193	1.78

802.11ac VHT40_Nss1,(MCS0)_3TX

5230MHz_TX

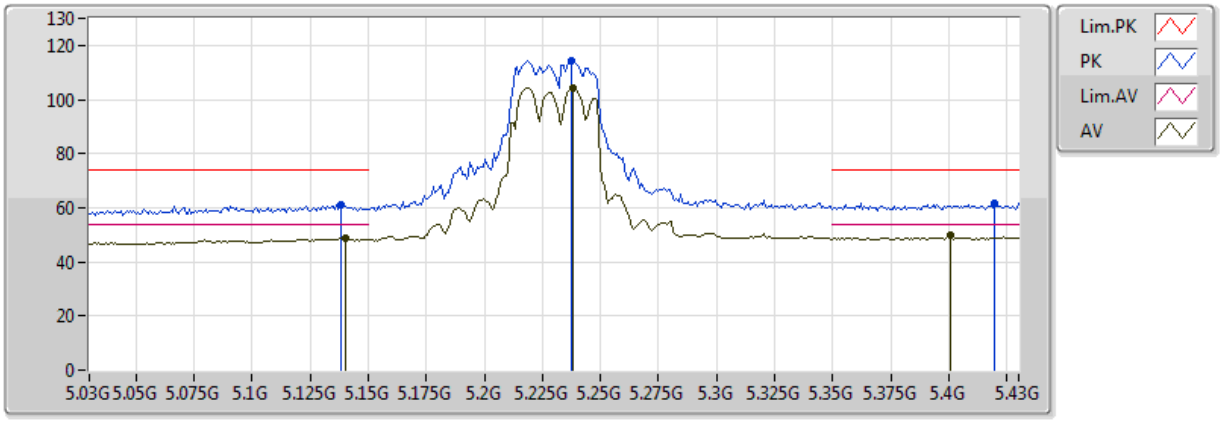


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1372G	47.12	54.00	-6.88	8.21	3	Vertical	268	1.46
AV	5.2372G	102.14	Inf	-Inf	8.42	3	Vertical	268	1.46
AV	5.3508G	47.11	54.00	-6.89	8.63	3	Vertical	268	1.46
PK	5.1484G	59.47	74.00	-14.53	8.24	3	Vertical	268	1.46
PK	5.2364G	112.40	Inf	-Inf	8.42	3	Vertical	268	1.46
PK	5.354G	60.45	74.00	-13.55	8.64	3	Vertical	268	1.46

802.11ac VHT40_Nss1,(MCS0)_3TX

5230MHz_TX

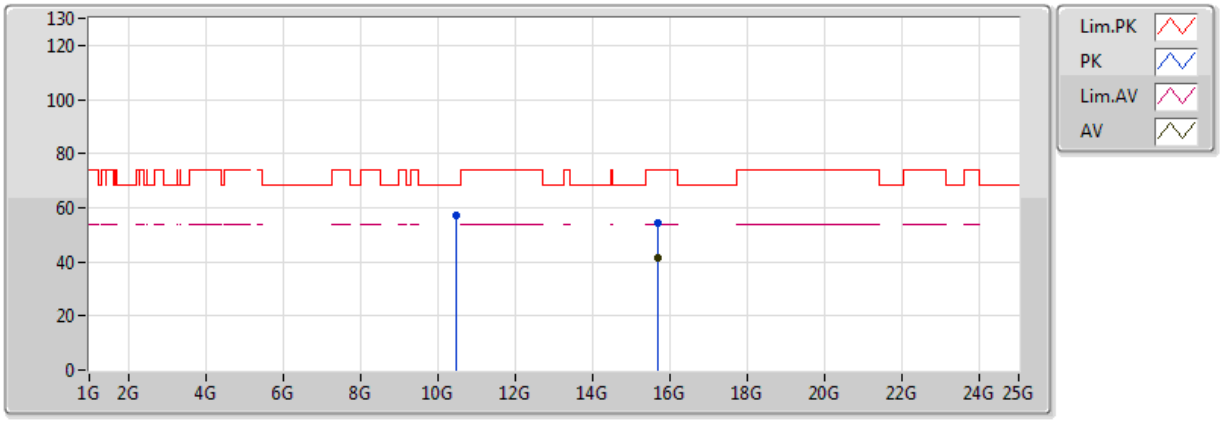


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1404G	48.84	54.00	-5.16	8.22	3	Horizontal	229	1.36
AV	5.238G	104.37	Inf	-Inf	8.42	3	Horizontal	229	1.36
AV	5.4004G	50.01	54.00	-3.99	8.73	3	Horizontal	229	1.36
PK	5.138G	61.17	74.00	-12.83	8.21	3	Horizontal	229	1.36
PK	5.2372G	114.38	Inf	-Inf	8.42	3	Horizontal	229	1.36
PK	5.4196G	61.69	74.00	-12.31	8.77	3	Horizontal	229	1.36

802.11ac VHT40_Nss1,(MCS0)_3TX

5230MHz_TX

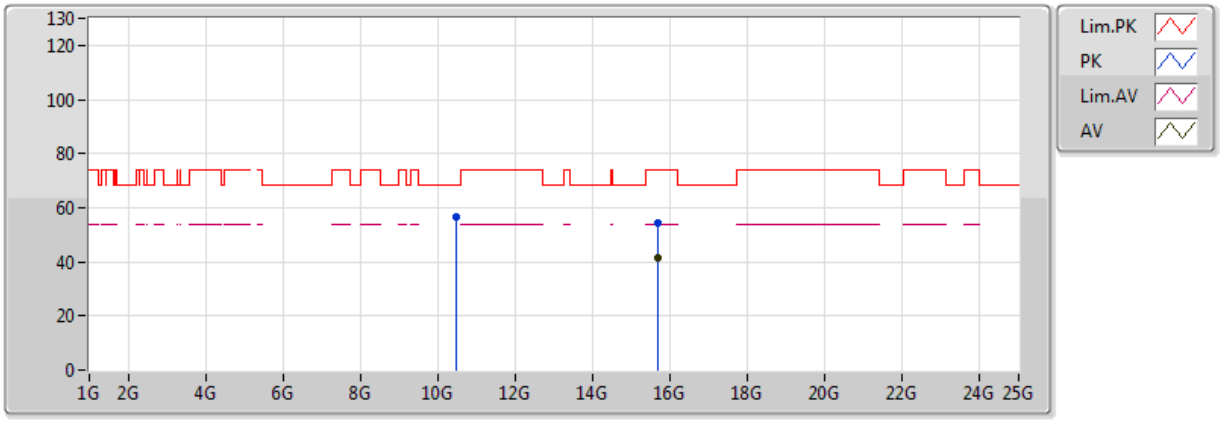


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.68804G	41.20	54.00	-12.80	15.79	3	Vertical	133	1.58
PK	10.458G	57.19	68.20	-11.01	13.90	3	Vertical	273	2.70
PK	15.6876G	54.53	74.00	-19.47	15.79	3	Vertical	133	1.58

802.11ac VHT40_Nss1,(MCS0)_3TX

5230MHz_TX

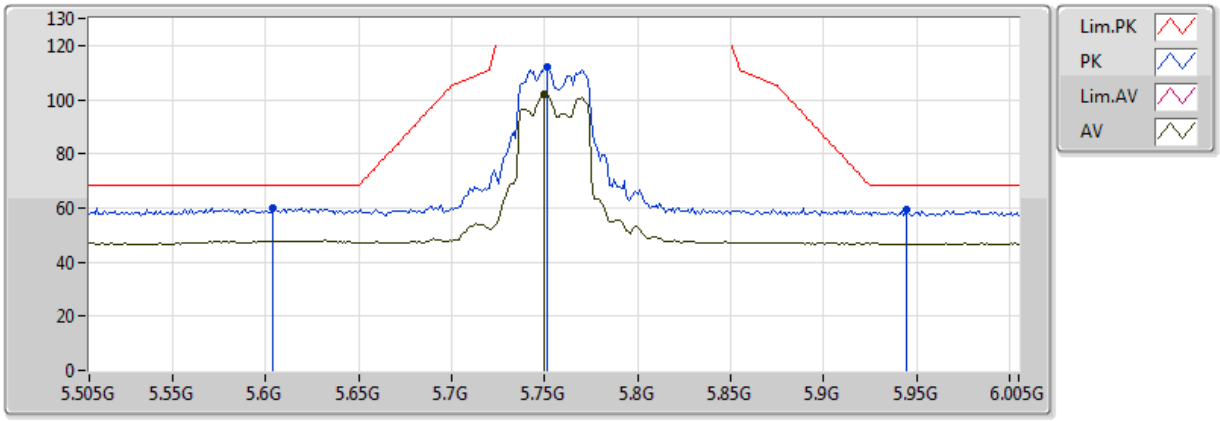


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.6838G	41.19	54.00	-12.81	15.80	3	Horizontal	132	1.69
PK	10.46444G	56.62	68.20	-11.58	13.90	3	Horizontal	280	1.33
PK	15.695G	54.32	74.00	-19.68	15.78	3	Horizontal	132	1.69

802.11ac VHT40_Nss1,(MCS0)_3TX

5755MHz_TX

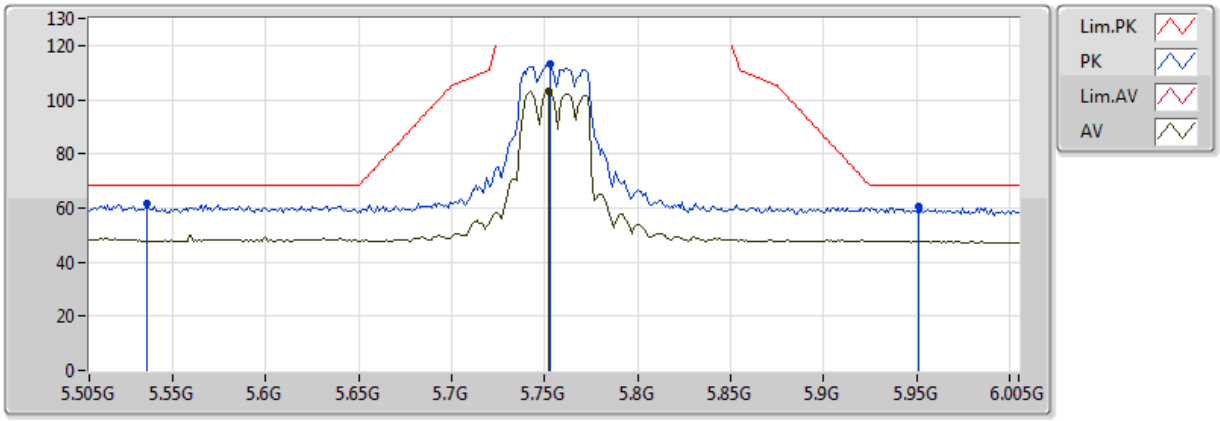


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.75G	102.10	Inf	-Inf	9.11	3	Vertical	31	2.79
PK	5.604G	60.13	68.20	-8.07	9.00	3	Vertical	31	2.79
PK	5.751G	112.34	Inf	-Inf	9.11	3	Vertical	31	2.79
PK	5.945G	59.48	68.20	-8.72	9.21	3	Vertical	31	2.79

802.11ac VHT40_Nss1,(MCS0)_3TX

5755MHz_TX

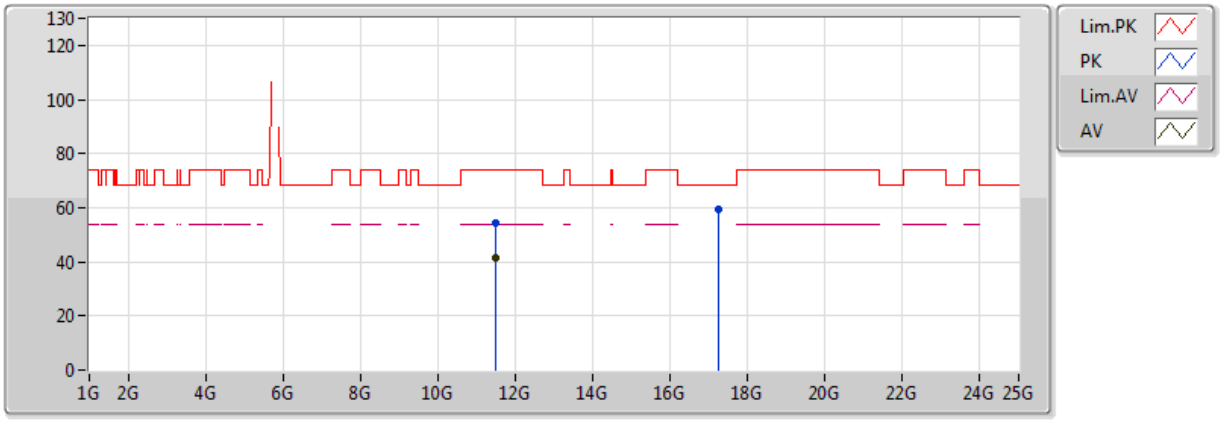


20180409
EUT Y_3TX
Setting 21
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.752G	103.12	Inf	-Inf	9.11	3	Horizontal	295	1.35
PK	5.536G	61.89	68.20	-6.31	8.96	3	Horizontal	295	1.35
PK	5.753G	113.10	Inf	-Inf	9.11	3	Horizontal	295	1.35
PK	5.951G	60.27	68.20	-7.93	9.21	3	Horizontal	295	1.35

802.11ac VHT40_Nss1,(MCS0)_3TX

5755MHz_TX

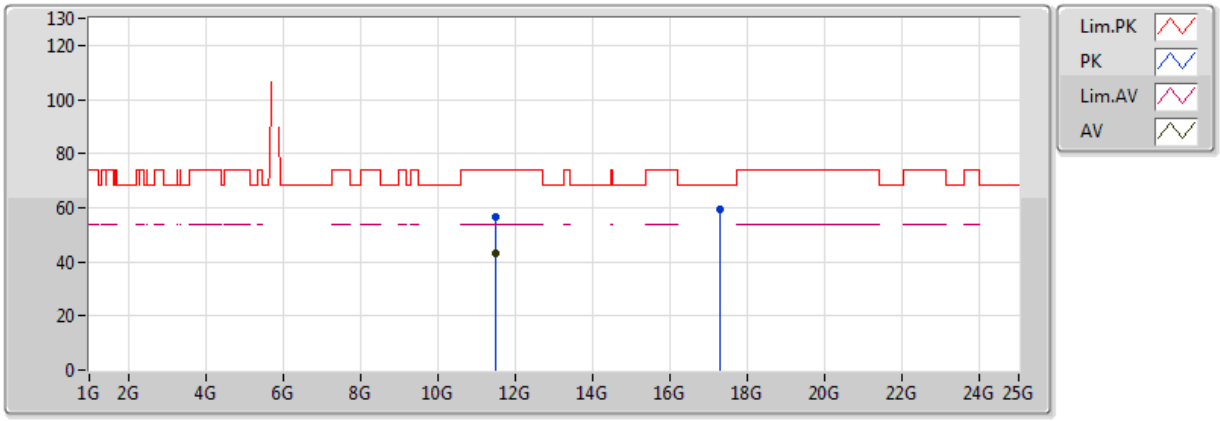


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.5097G	41.42	54.00	-12.58	14.19	3	Vertical	266	1.51
PK	11.4876G	54.32	74.00	-19.68	14.16	3	Vertical	266	1.51
PK	17.26072G	59.14	68.20	-9.06	20.28	3	Vertical	196	1.88

802.11ac VHT40_Nss1,(MCS0)_3TX

5755MHz_TX

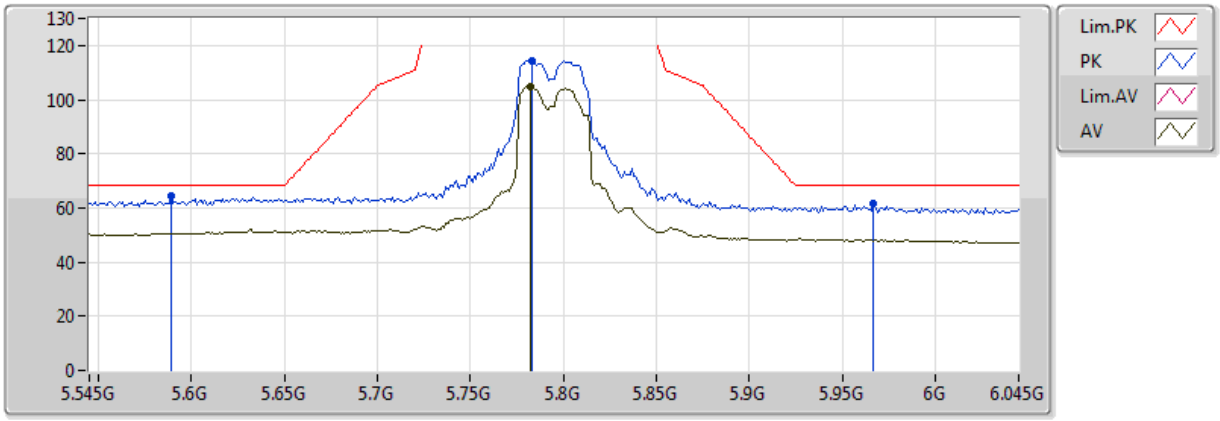


20180409
EUT Y_3TX
Setting 21
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.506G	43.21	54.00	-10.79	14.18	3	Horizontal	277	1.50
PK	11.5083G	56.54	74.00	-17.46	14.18	3	Horizontal	277	1.50
PK	17.26968G	59.24	68.20	-8.96	20.32	3	Horizontal	187	1.86

802.11ac VHT40_Nss1,(MCS0)_3TX

5795MHz_TX

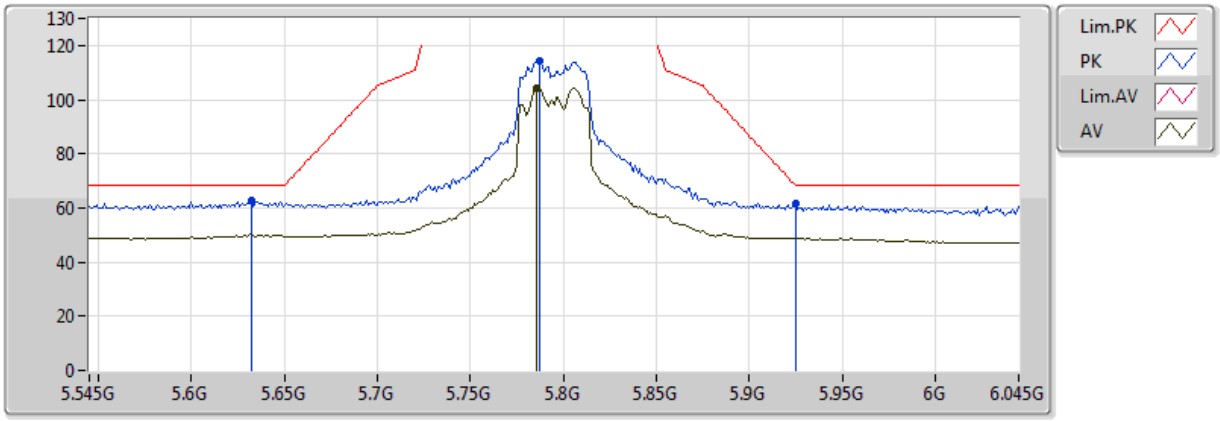


20180409
EUT Y_3TX
Setting 22.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.782G	104.78	Inf	-Inf	9.14	3	Vertical	341	1.47
PK	5.589G	64.23	68.20	-3.97	8.99	3	Vertical	341	1.47
PK	5.783G	114.54	Inf	-Inf	9.14	3	Vertical	341	1.47
PK	5.967G	61.40	68.20	-6.80	9.22	3	Vertical	341	1.47

802.11ac VHT40_Nss1,(MCS0)_3TX

5795MHz_TX

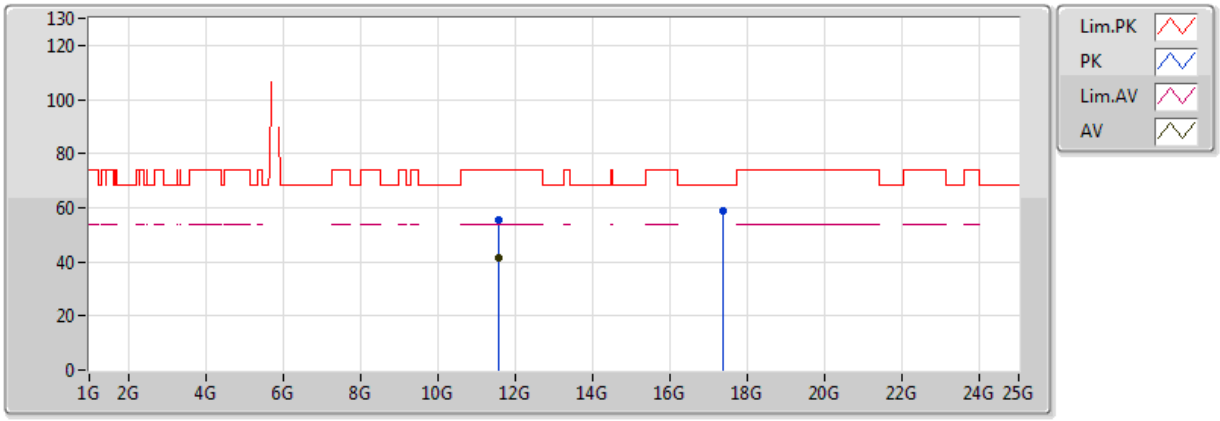


20180409
EUT Y_3TX
Setting 22.5
02-E-3-10
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.786G	104.43	Inf	-Inf	9.14	3	Horizontal	185	1.47
PK	5.632G	62.68	68.20	-5.52	9.02	3	Horizontal	185	1.47
PK	5.787G	114.34	Inf	-Inf	9.14	3	Horizontal	185	1.47
PK	5.925G	61.50	68.20	-6.70	9.20	3	Horizontal	185	1.47

802.11ac VHT40_Nss1,(MCS0)_3TX

5795MHz_TX

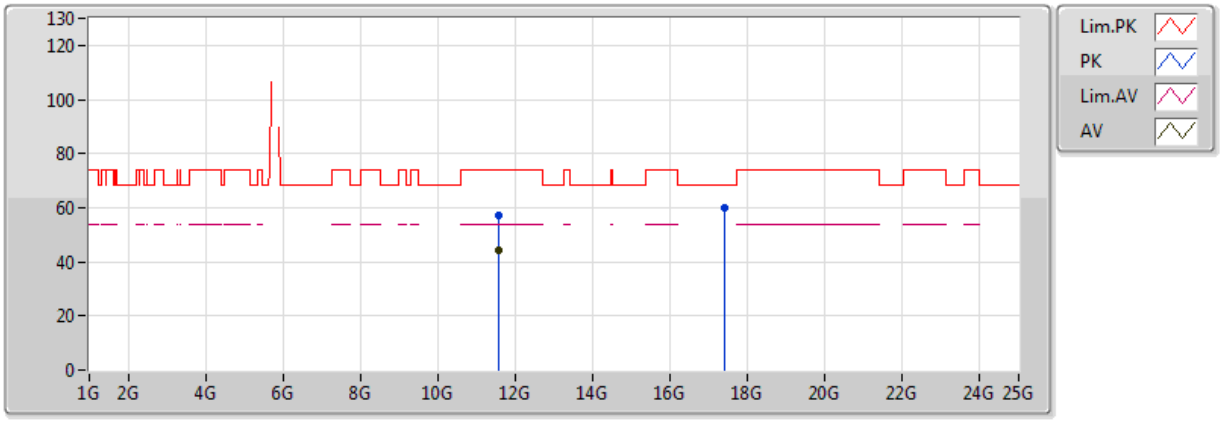


20180409
EUT Y_3TX
Setting 22.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.58238G	41.52	54.00	-12.48	14.25	3	Vertical	292	1.55
PK	11.58964G	55.26	74.00	-18.74	14.26	3	Vertical	292	1.55
PK	17.38454G	58.98	68.20	-9.22	20.95	3	Vertical	159	1.44

802.11ac VHT40_Nss1,(MCS0)_3TX

5795MHz_TX

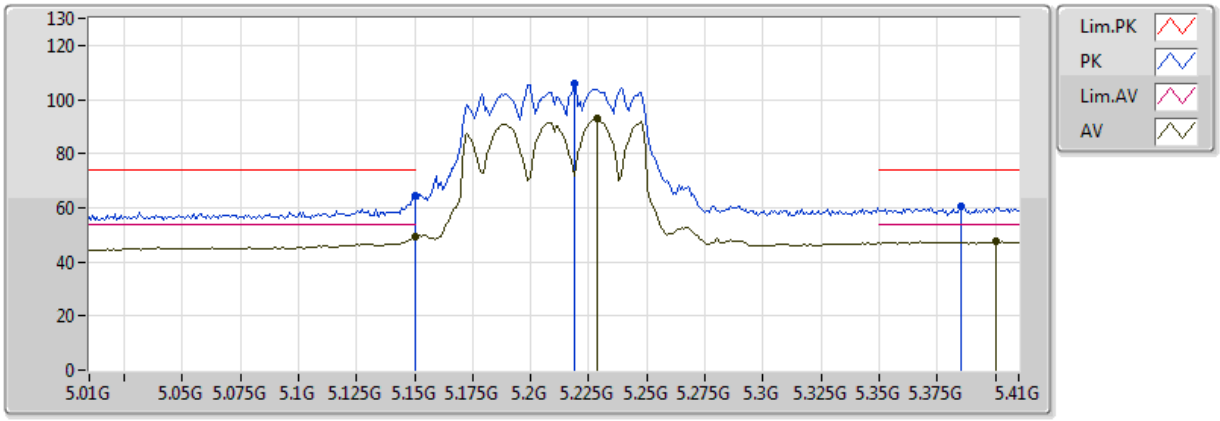


20180409
EUT Y_3TX
Setting 22.5
02-E-3
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.5849G	44.17	54.00	-9.83	14.25	3	Horizontal	277	1.70
PK	11.5863G	57.37	74.00	-16.63	14.26	3	Horizontal	277	1.70
PK	17.38886G	59.78	68.20	-8.42	20.98	3	Horizontal	285	1.73

802.11ac VHT80_Nss1,(MCS0)_3TX

5210MHz_TX

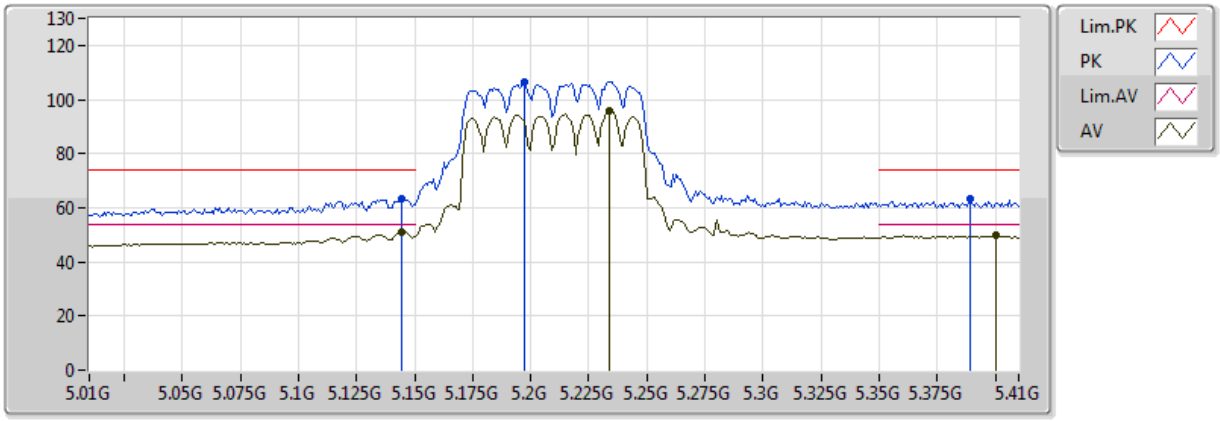


20171220
EUT Y_3TX
Setting 15.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.149995G	49.32	54.00	-4.68	4.83	3	Vertical	360	2.99
AV	5.2284G	92.84	Inf	-Inf	5.01	3	Vertical	360	2.99
AV	5.4004G	47.53	54.00	-6.47	5.71	3	Vertical	360	2.99
PK	5.149995G	64.34	74.00	-9.66	4.83	3	Vertical	360	2.99
PK	5.2188G	106.00	Inf	-Inf	4.97	3	Vertical	360	2.99
PK	5.3852G	60.75	74.00	-13.25	5.65	3	Vertical	360	2.99

802.11ac VHT80_Nss1,(MCS0)_3TX

5210MHz_TX

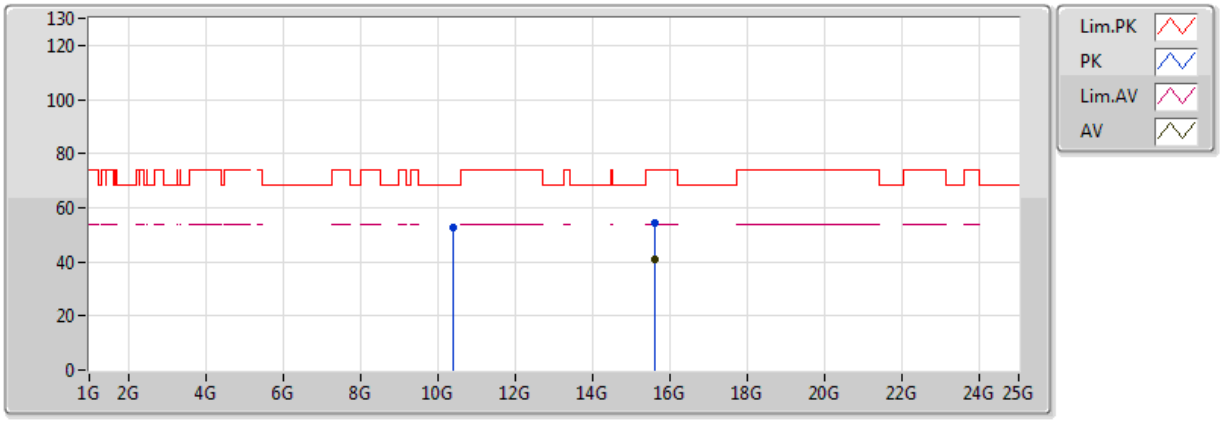


20171220
EUT Y_3TX
Setting 15.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.1444G	51.08	54.00	-2.92	4.82	3	Horizontal	228	1.46
AV	5.234G	95.82	Inf	-Inf	5.04	3	Horizontal	228	1.46
AV	5.4004G	49.90	54.00	-4.10	5.71	3	Horizontal	228	1.46
PK	5.1444G	63.29	74.00	-10.71	4.82	3	Horizontal	228	1.46
PK	5.1972G	106.72	Inf	-Inf	4.89	3	Horizontal	228	1.46
PK	5.3892G	63.26	74.00	-10.74	5.67	3	Horizontal	228	1.46

802.11ac VHT80_Nss1,(MCS0)_3TX

5210MHz_TX

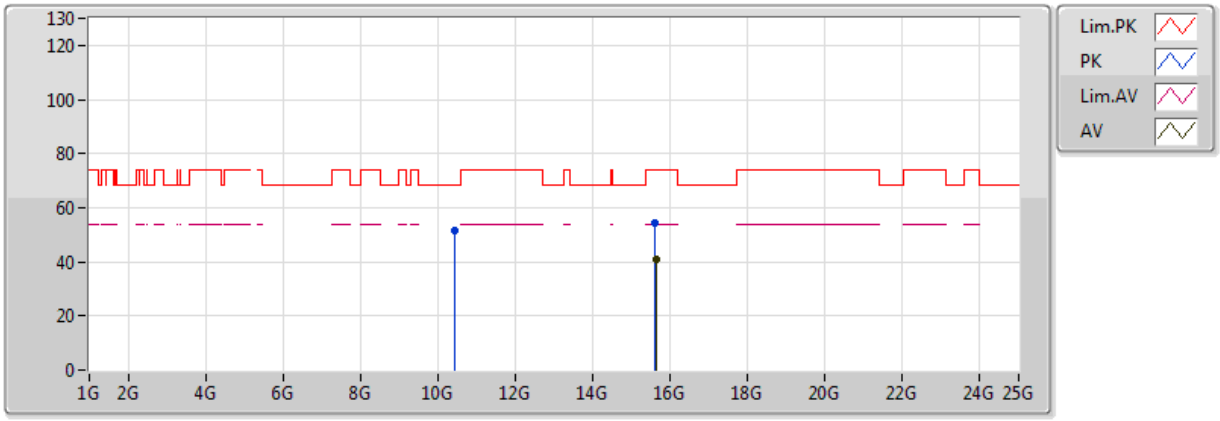


20180410
EUT Y_3TX
Setting 15.5
02-E-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.61962G	40.98	54.00	-13.02	15.92	3	Vertical	308	1.68
PK	10.4089G	52.73	68.20	-15.47	13.92	3	Vertical	277	1.82
PK	15.6156G	54.41	74.00	-19.59	15.92	3	Vertical	308	1.68

802.11ac VHT80_Nss1,(MCS0)_3TX

5210MHz_TX

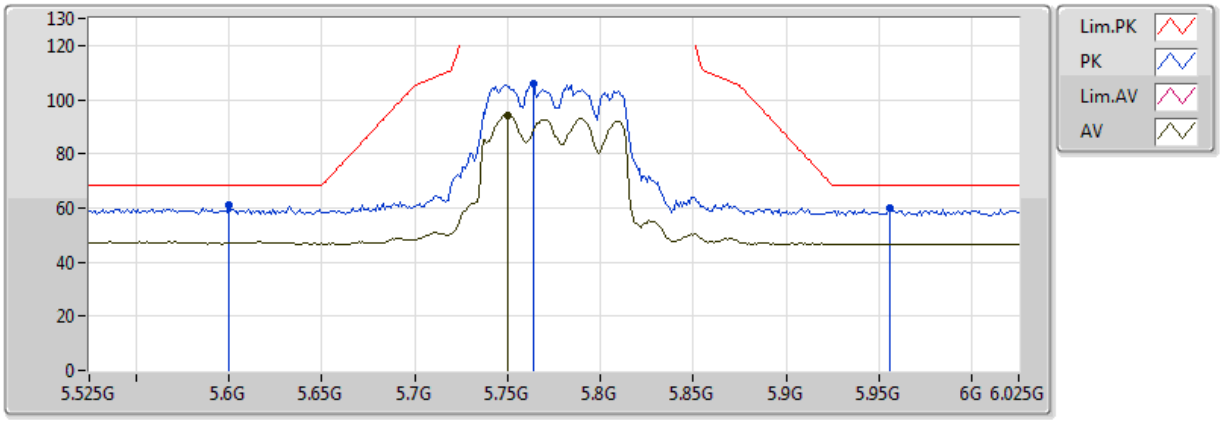


20180410
EUT Y_3TX
Setting 15.5
02-E-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	15.64248G	40.98	54.00	-13.02	15.75	3	Horizontal	204	1.75
PK	10.43176G	51.56	68.20	-16.64	12.61	3	Horizontal	256	1.52
PK	15.6228G	54.51	74.00	-19.49	15.78	3	Horizontal	204	1.75

802.11ac VHT80_Nss1,(MCS0)_3TX

5775MHz_TX

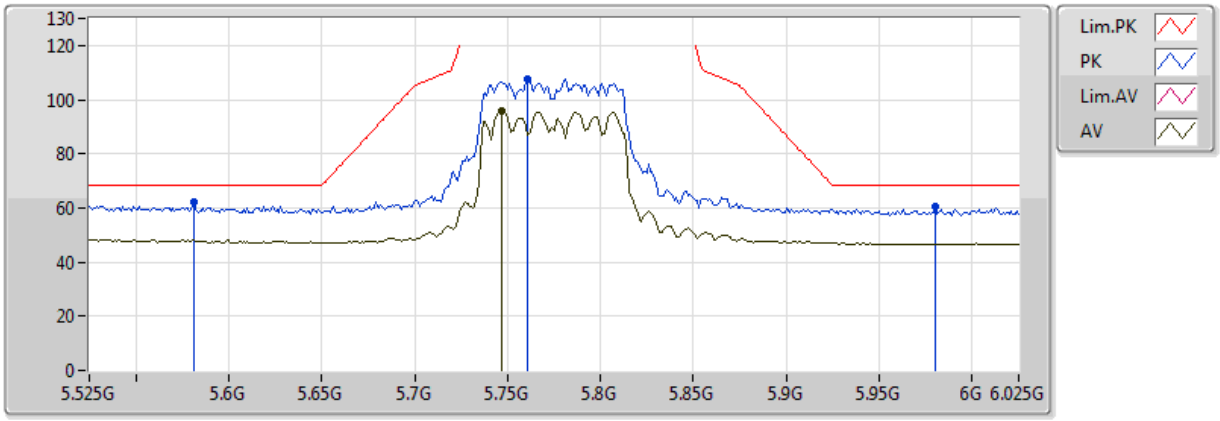


20171220
EUT Y_3TX
Setting 16.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.75G	93.92	Inf	-Inf	6.80	3	Vertical	33	1.61
PK	5.6G	60.81	68.20	-7.39	6.18	3	Vertical	33	1.61
PK	5.764G	106.16	Inf	-Inf	6.86	3	Vertical	33	1.61
PK	5.956G	59.80	68.20	-8.40	7.31	3	Vertical	33	1.61

802.11ac VHT80_Nss1,(MCS0)_3TX

5775MHz_TX

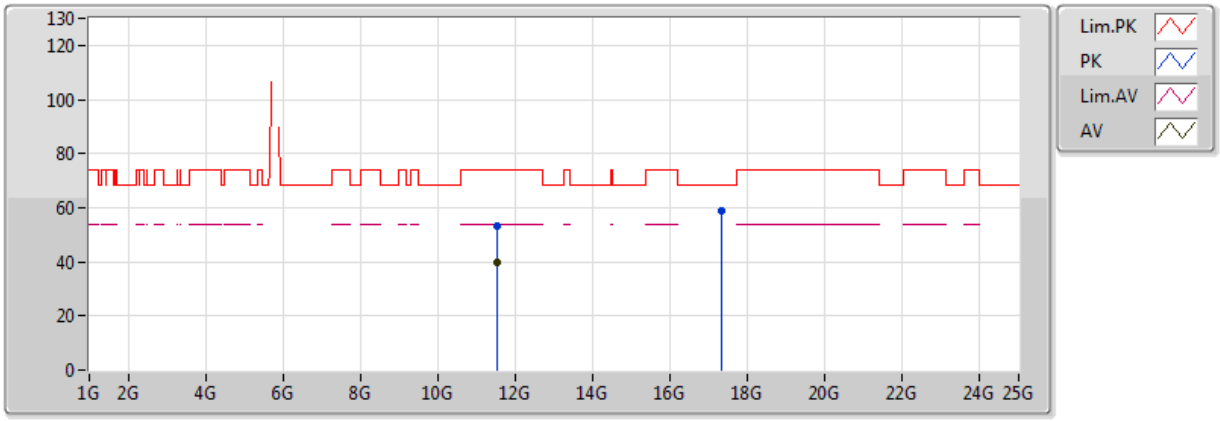


20171220
EUT Y_3TX
Setting 16.5
01-M-01-10
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	5.747G	96.04	Inf	-Inf	6.79	3	Horizontal	170	1.50
PK	5.581G	62.00	68.20	-6.20	6.13	3	Horizontal	170	1.50
PK	5.761G	107.41	Inf	-Inf	6.85	3	Horizontal	170	1.50
PK	5.98G	60.67	68.20	-7.53	7.36	3	Horizontal	170	1.50

802.11ac VHT80_Nss1,(MCS0)_3TX

5775MHz_TX

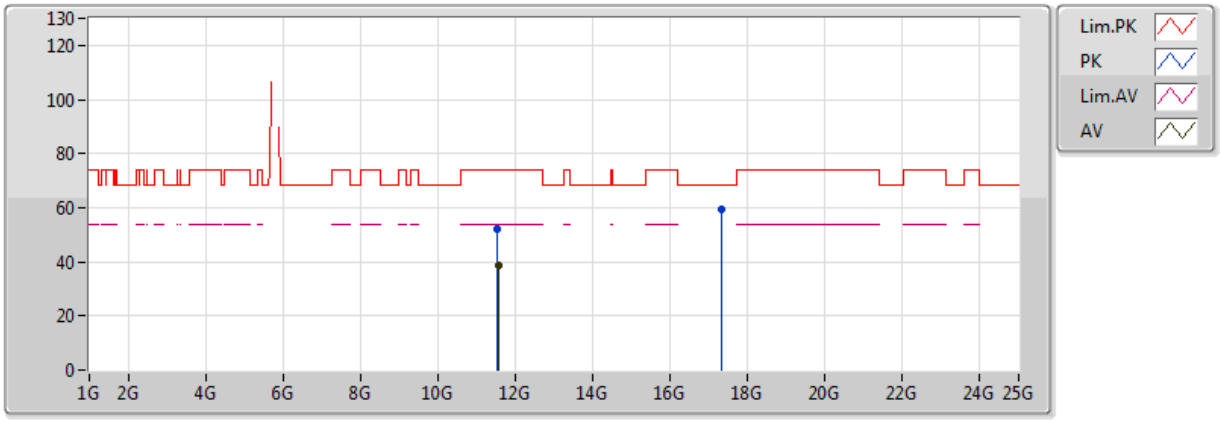


20180410
EUT Y_3TX
Setting 16.5
02-E-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.5377G	39.81	54.00	-14.19	14.21	3	Vertical	270	1.59
PK	11.54664G	53.22	74.00	-20.78	14.22	3	Vertical	270	1.59
PK	17.31996G	59.05	68.20	-9.15	20.60	3	Vertical	289	1.45

802.11ac VHT80_Nss1,(MCS0)_3TX

5775MHz_TX



20180410
EUT Y_3TX
Setting 16.5
02-E-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	11.55396G	38.61	54.00	-15.39	13.18	3	Horizontal	256	1.73
PK	11.53812G	52.12	74.00	-21.88	13.18	3	Horizontal	256	1.73
PK	17.3112G	59.14	68.20	-9.06	20.30	3	Horizontal	197	1.77