FCC Test Report

Equipment	:	AC750 Wireless Dual Band Router
Brand Name	:	TP-Link
Model No.	:	Archer C20
FCC ID	:	TE7C20V4
Standard	:	47 CFR FCC Part 15.407
Operating Band	:	5150 MHz – 5250 MHz 5725 MHz – 5850 MHz
Applicant	:	TP-Link Technologies Co., Ltd. Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China
Manufacturer	:	TP-Link Technologies Co., Ltd. Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park,Shennan Rd, Nanshan, Shenzhen,China
Function	:	☐ Outdoor; ☒ Indoor; ☐ Fixed P2P ☐ Client

The product sample received on Dec. 01, 2016 and completely tested on Jan. 24, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Cliff Chang
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

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Summary of Test Result

Conformance Test Specifications			
Report Clause	**Ref. Std. Clause**	**Description**	**Result**
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied

Revision History

Report No.	Version	Description	Issued Date
FR570506-01AB	Rev. 01	Initial issue of report	Feb. 16, 2017

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
5.2G	11a	20	1
5.2G	HT20	20	1
5.2G	VHT20	20	1
5.2G	HT40	40	1
5.2G	VHT40	40	1
5.2G	VHT80	80	1
5.8G	11a	20	1
5.8G	HT20	20	1
5.8G	VHT20	20	1
5.8G	HT40	40	1
5.8G	VHT40	40	1
5.8G	VHT80	80	1

Note:
- 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- 5.8G/5.8G-I(IC) is the 5.8GHz Band (5.725-5.850GHz).
- 5.3G-T(Taiwan) is the 5.3GHz TW Band (5.25-5.35GHz).
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- 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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
					2.4GHz	5GHz Band 1	5GHz Band 4
1	TP-Link	3101501157	Dipole Antenna	Weld	2	-	-
2	TP-Link	3101501156	Dipole Antenna	Weld	2	-	-
3	TP-Link	3101501155	Dipole Antenna	I-PEX	-	3.03	2.97

Note: The EUT has three antennas.

For 2.4GHz WLAN function

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

Ant. 1(Port 1) and Ant. 2(Port 2) could transmit/receive simultaneously.

For 5GHz WLAN function

For IEEE 802.11a/n/ac mode (1TX, 1RX):

Only Ant. 3(Port 1) can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) ≥ 1/T
11a	0.88	1.4m	1k
VHT20	0.87	1.32m	1k
VHT40	0.771	660u	3k
VHT80	0.622	327.5u	10k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming

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 v01r03
- FCC KDB 644545 D03 v01
- FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Gino Huang	25°C / 51%	Dec. 22, 2016
Radiated	03CH01-CB	Welson Chen & Justin Lin	24°C / 60%	Dec. 13, 2016~Jan. 24, 2017
AC Conduction	CO01-CB	Ryo Fan	22°C / 57%	Jan. 19, 2017

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	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
5.2G	11a	20	1	1	5180	L	22
5.2G	11a	20	1	1	5200	M	36
5.2G	11a	20	1	1	5240	H	21
5.8G	11a	20	1	1	5745	L	43
5.8G	11a	20	1	1	5785	M	43
5.8G	11a	20	1	1	5825	H	43
5.2G	VHT20	20	1,(M0)	1	5180	L	22
5.2G	VHT20	20	1,(M0)	1	5200	M	36
5.2G	VHT20	20	1,(M0)	1	5240	H	18
5.8G	VHT20	20	1,(M0)	1	5745	L	43
5.8G	VHT20	20	1,(M0)	1	5785	M	43
5.8G	VHT20	20	1,(M0)	1	5825	H	43
5.2G	VHT40	40	1,(M0)	1	5190	L	9
5.2G	VHT40	40	1,(M0)	1	5230	H	19
5.8G	VHT40	40	1,(M0)	1	5755	L	43
5.8G	VHT40	40	1,(M0)	1	5795	H	43
5.2G	VHT80	80	1,(M0)	1	5210	S	3
5.8G	VHT80	80	1,(M0)	1	5775	S	30

Note:
- Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch.) and C (Straddle Band Ch.).
- VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT + Adapter (Repeater mode)

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT + Adapter (Repeater mode)
Operating Mode > 1GHz	CTX
1	EUT + Adapter

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT + Adapter (Repeater mode)
Refer to Sporton Test Report No.: FA570506-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

Note:
There are two modes of EUT, one is router mode, the other is repeater mode.
Repeater mode has been evaluated to be the worst case after evaluating. So the measurement will follow this same test configuration for Normal Link mode.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	TP-Link	T090085-2B1	Input: 100-240V~50/60Hz 0.3A Output: 9V, 0.85A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*4	DELL	E6430	DoC
2	AP	Planex	GW-AP54SGX	KA220030603014-1

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*2	DELL	E4300	DoC
2	NB*2	Apple	Mac Book	DoC
3	AP	Netgear	R7500	PY314300288

For Test Site No: 03CH01-CB (above 1GHz)

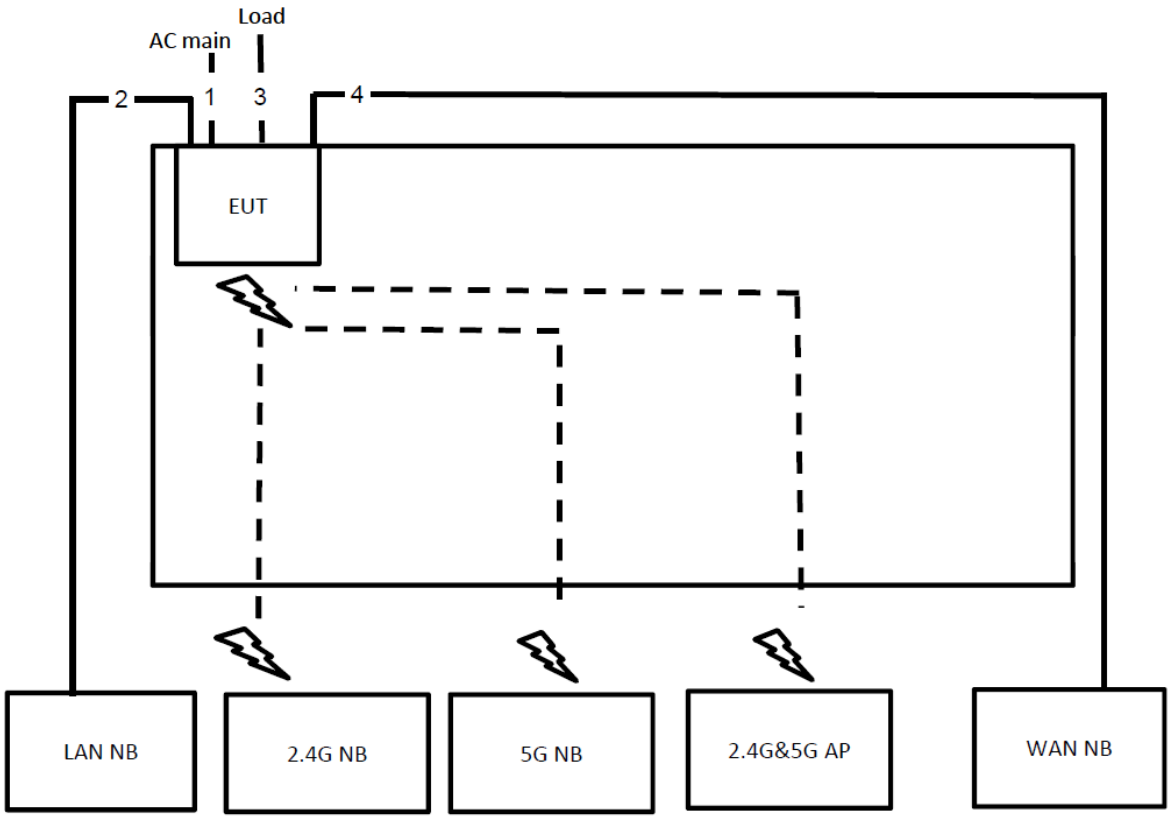
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	DoC

For Test Site No: TH01-CB

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

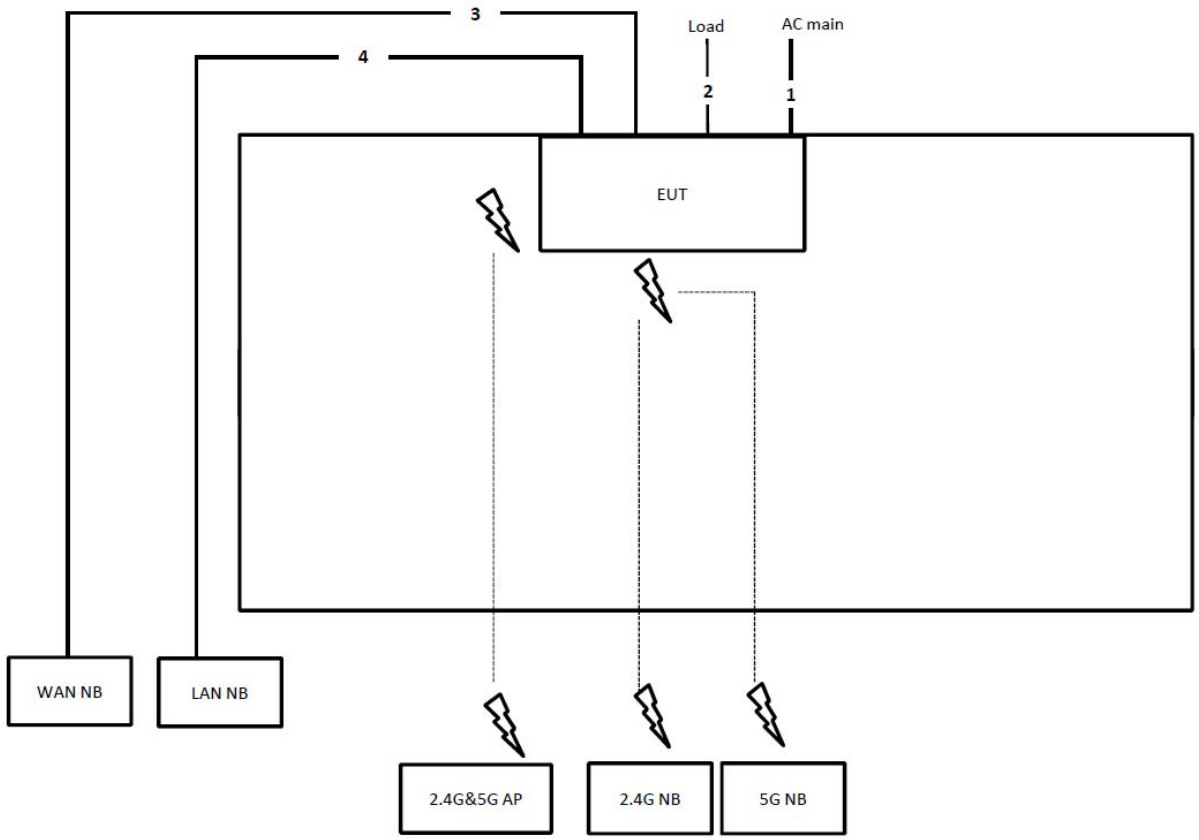
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



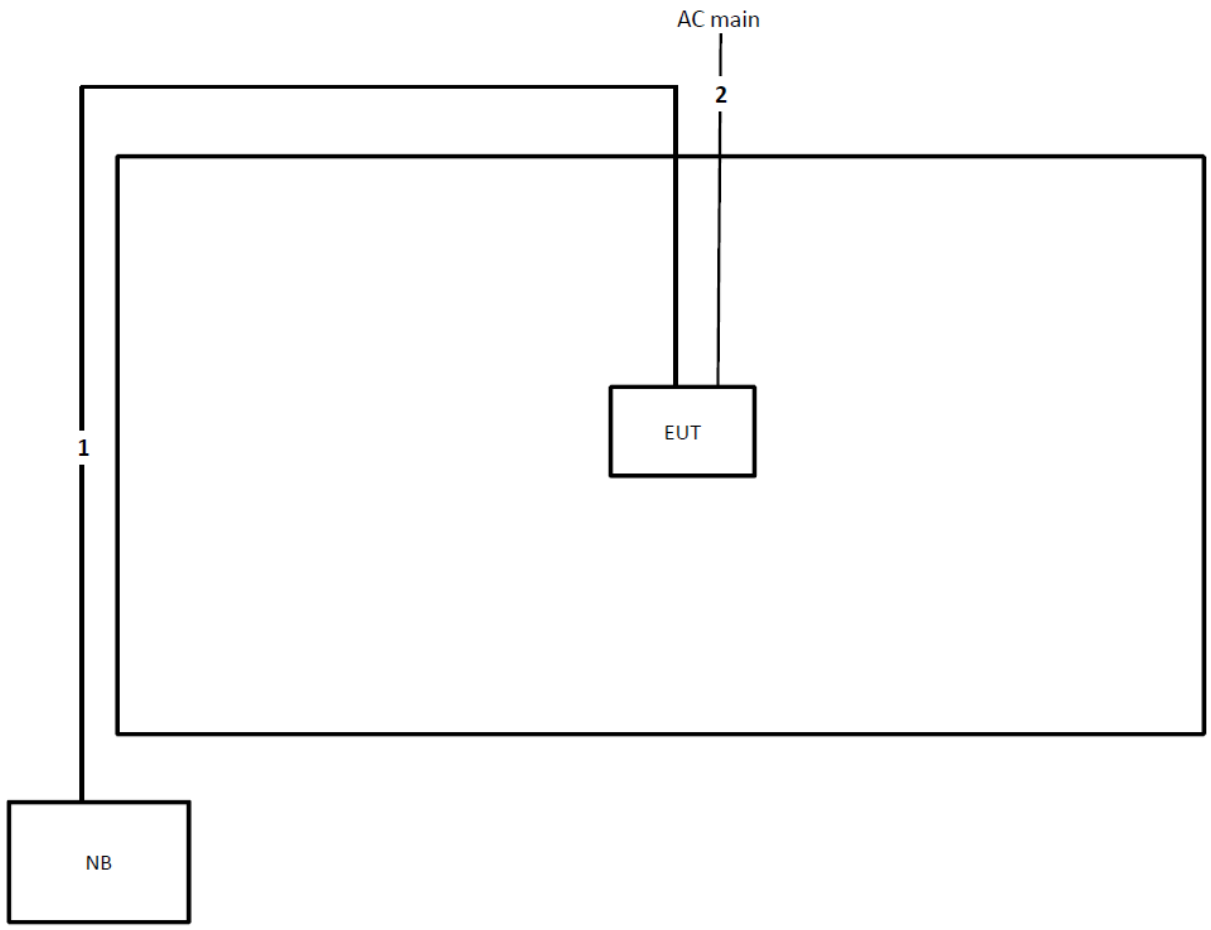
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable*3	No	1.5m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

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

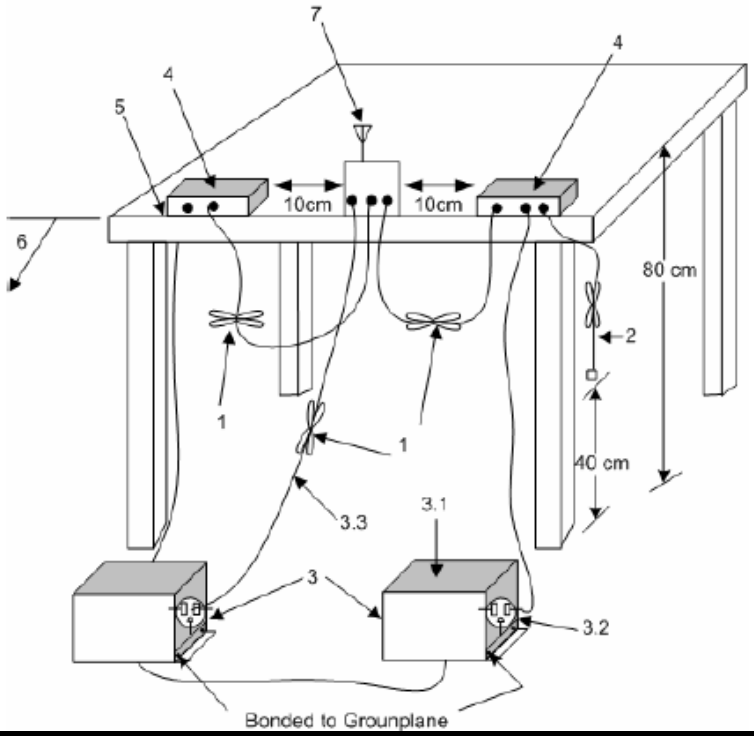
Refer a test equipment and calibration data table in this test report.

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



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 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 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 ≥ 500kHz.
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 ≥ 500kHz.

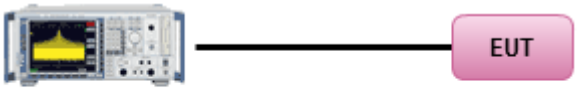
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ 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

Emission Bandwidth
 Spectrum Analyzer

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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Power Meter)


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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	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.	

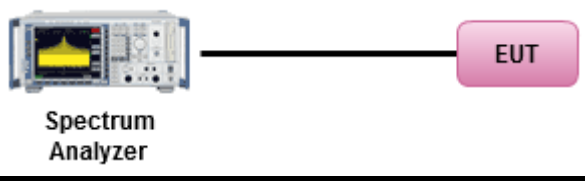
3.4.2 Measuring Instruments

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, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	[duty cycle ≥ 98% or external video / power trigger]	
	☒ 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


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.

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.

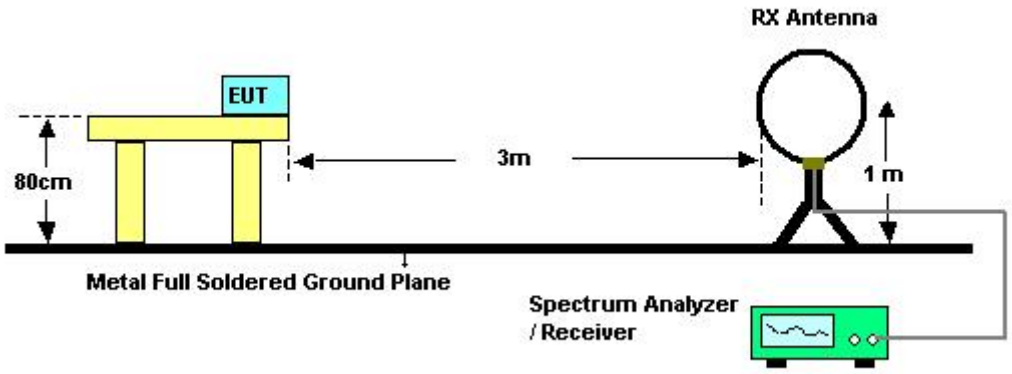
3.5.3 Test Procedures

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 ≥ 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.		

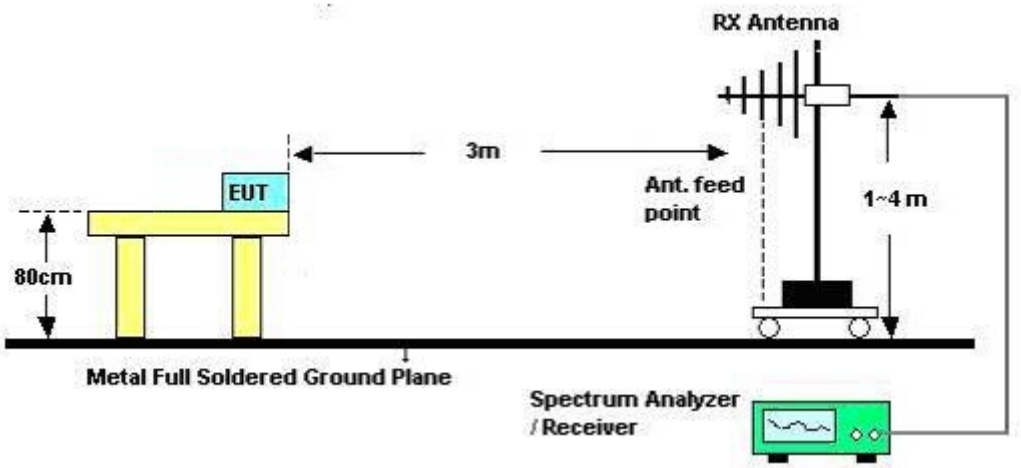
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

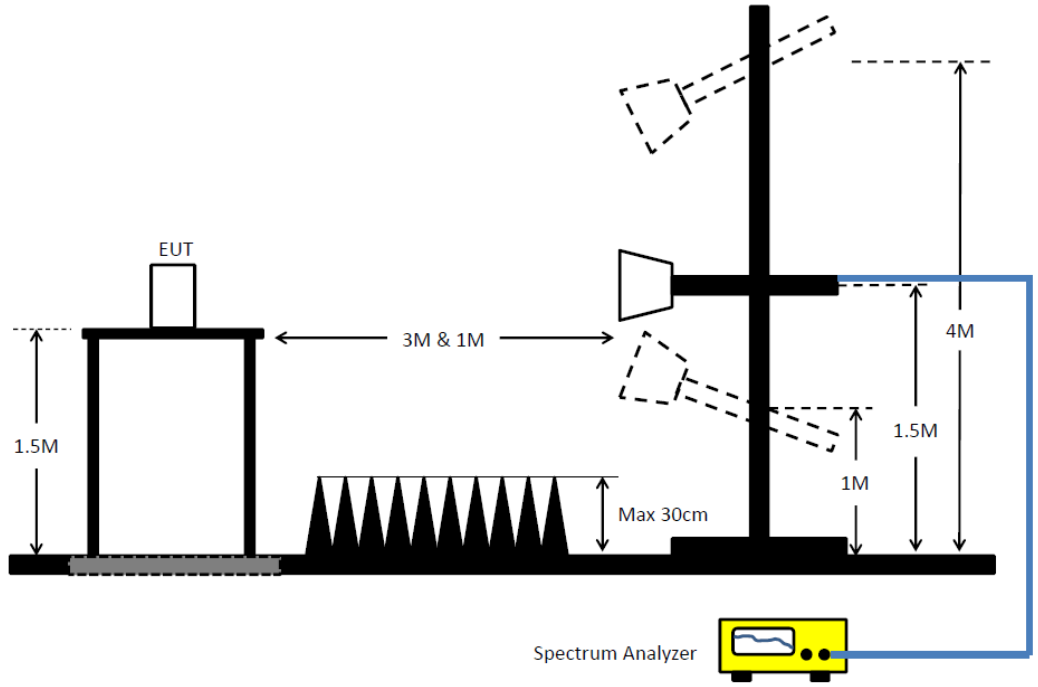
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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.

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
▪ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
▪ N/A
IEEE Std. 802.11
▪ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

3.6.2 Measuring Instruments

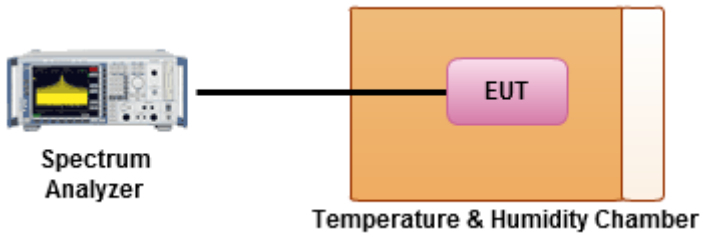
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10, clause 6.8 for frequency stability tests	
	▪ Frequency stability with respect to ambient temperature
	▪ Frequency stability when varying supply voltage
	▪ Extreme temperature is 0℃~40℃.

3.6.4 Test Setup

Frequency Stability



3.6.5 Test Result of Frequency Stability

Refer as Appendix F

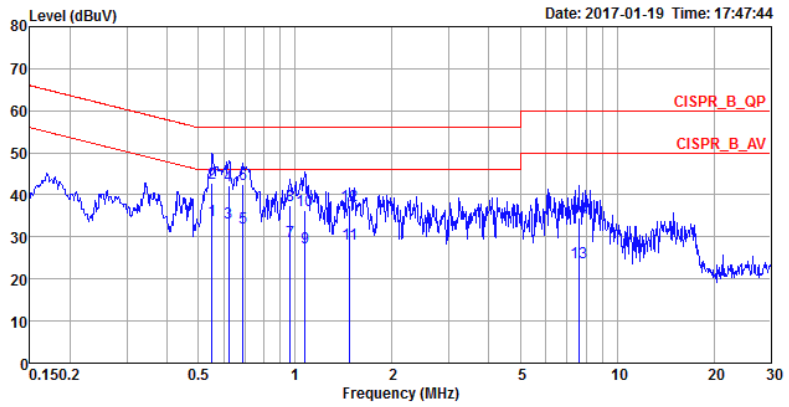
4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 21, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Test Software	Audix	E3	6.2009-l0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 26, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Cable	Marvelous Microwave	n/a	Cable-REF-1	9k-1GHz	Oct. 21, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
"*" Calibration Interval of instruments listed above is two years.
NCR means Non-Calibration required.

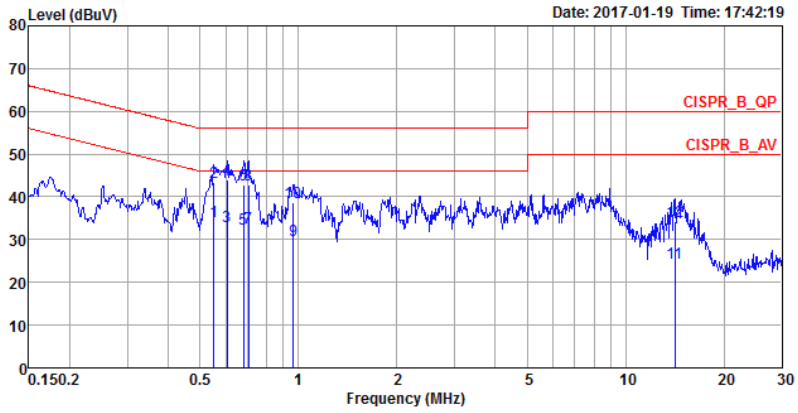
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.5523	34.09	-11.91	46.00	24.08	9.97	0.04	Average	NEUTRAL
2	0.5523	42.71	-13.29	56.00	32.70	9.97	0.04	QP	NEUTRAL
3	0.6205	33.25	-12.75	46.00	23.23	9.97	0.05	Average	NEUTRAL
4	0.6205	42.29	-13.71	56.00	32.27	9.97	0.05	QP	NEUTRAL
5	0.6899	32.08	-13.92	46.00	22.05	9.98	0.05	Average	NEUTRAL
6	0.6899	42.38	-13.62	56.00	32.35	9.98	0.05	QP	NEUTRAL
7	0.9633	28.90	-17.10	46.00	18.85	9.99	0.06	Average	NEUTRAL
8	0.9633	37.63	-18.37	56.00	27.58	9.99	0.06	QP	NEUTRAL
9	1.0710	27.56	-18.44	46.00	17.51	9.99	0.06	Average	NEUTRAL
10	1.0710	36.38	-19.62	56.00	26.33	9.99	0.06	QP	NEUTRAL
11	1.4796	28.22	-17.78	46.00	18.18	9.97	0.07	Average	NEUTRAL
12	1.4796	37.41	-18.59	56.00	27.37	9.97	0.07	QP	NEUTRAL
13	7.6060	23.90	-26.10	50.00	13.59	10.14	0.17	Average	NEUTRAL
14	7.6060	34.61	-25.39	60.00	24.30	10.14	0.17	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	1	**Power Phase**	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.5523	34.16	-11.84	46.00	24.20	9.92	0.04	Average	LINE
2	0.5523	43.25	-12.75	56.00	33.29	9.92	0.04	QP	LINE
3	0.6043	33.01	-12.99	46.00	23.03	9.93	0.05	Average	LINE
4	0.6043	43.89	-12.11	56.00	33.91	9.93	0.05	QP	LINE
5	0.6790	32.34	-13.66	46.00	22.35	9.94	0.05	Average	LINE
6	0.6790	42.82	-13.18	56.00	32.83	9.94	0.05	QP	LINE
7	0.7047	32.85	-13.15	46.00	22.86	9.94	0.05	Average	LINE
8	0.7047	42.77	-13.23	56.00	32.78	9.94	0.05	QP	LINE
9	0.9633	29.71	-16.29	46.00	19.68	9.97	0.06	Average	LINE
10	0.9633	38.60	-17.40	56.00	28.57	9.97	0.06	QP	LINE
11	14.1376	24.50	-25.50	50.00	14.15	10.14	0.21	Average	LINE
12	14.1376	34.20	-25.80	60.00	23.85	10.14	0.21	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.)

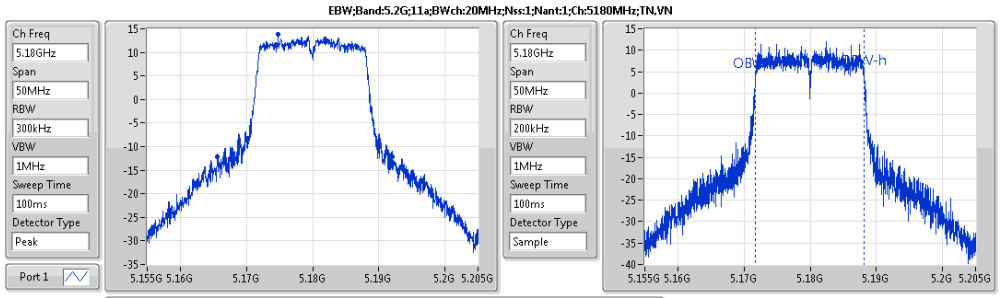
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx1	44.725M	26.462M	26M5D1D	26.4M	16.492M
5.8G;11a;Nss1;Ntx1	16.275M	29.71M	29M7D1D	16M	27.086M
5.2G;VHT20;Nss1,(M0);Ntx1	49.35M	28.236M	28M2D1D	21.675M	17.541M
5.8G;VHT20;Nss1,(M0);Ntx1	16.9M	30.835M	30M8D1D	16.275M	28.086M
5.2G;VHT40;Nss1,(M0);Ntx1	44M	36.132M	36M1D1D	41M	36.132M
5.8G;VHT40;Nss1,(M0);Ntx1	35.75M	63.068M	63M1D1D	35.65M	60.47M
5.2G;VHT80;Nss1,(M0);Ntx1	86.7M	75.562M	75M6D1D	86.7M	75.562M
5.8G;VHT80;Nss1,(M0);Ntx1	75M	76.362M	76M4D1D	75M	76.362M

Result

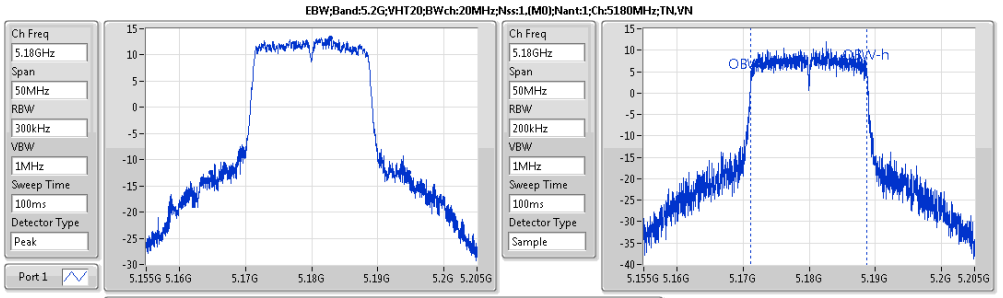
Mode	Result	Limit (Hz)	P1-N dB (Hz)	P1-OBW (Hz)
5.2G;11a;Nss1;Ntx1;5180	Pass	Inf	26.5M	16.492M
5.2G;11a;Nss1;Ntx1;5200	Pass	Inf	44.725M	26.462M
5.2G;11a;Nss1;Ntx1;5240	Pass	Inf	26.4M	16.492M
5.8G;11a;Nss1;Ntx1;5745	Pass	500k	16M	29.71M
5.8G;11a;Nss1;Ntx1;5785	Pass	500k	16.025M	28.561M
5.8G;11a;Nss1;Ntx1;5825	Pass	500k	16.275M	27.086M
5.2G;VHT20;Nss1,(M0);Ntx1;5180	Pass	Inf	29.925M	17.566M
5.2G;VHT20;Nss1,(M0);Ntx1;5200	Pass	Inf	49.35M	28.236M
5.2G;VHT20;Nss1,(M0);Ntx1;5240	Pass	Inf	21.675M	17.541M
5.8G;VHT20;Nss1,(M0);Ntx1;5745	Pass	500k	16.9M	30.835M
5.8G;VHT20;Nss1,(M0);Ntx1;5785	Pass	500k	16.275M	30.035M
5.8G;VHT20;Nss1,(M0);Ntx1;5825	Pass	500k	16.65M	28.086M
5.2G;VHT40;Nss1,(M0);Ntx1;5190	Pass	Inf	41M	36.132M
5.2G;VHT40;Nss1,(M0);Ntx1;5230	Pass	Inf	44M	36.132M
5.8G;VHT40;Nss1,(M0);Ntx1;5755	Pass	500k	35.75M	63.068M
5.8G;VHT40;Nss1,(M0);Ntx1;5795	Pass	500k	35.65M	60.47M
5.2G;VHT80;Nss1,(M0);Ntx1;5210	Pass	Inf	86.7M	75.562M
5.8G;VHT80;Nss1,(M0);Ntx1;5775	Pass	500k	75M	76.362M

EBW;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5180MHz;TN,VN



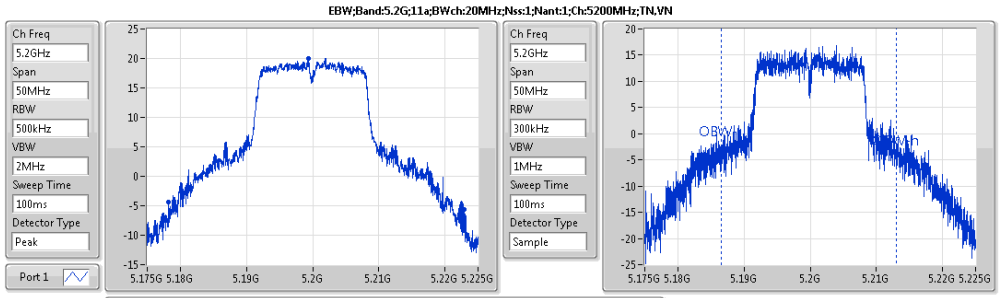
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.5M	5.165575G	5.192075G	16.492M	5.171704G	5.188196G	Inf	1

EBW;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5180MHz;TN,VN



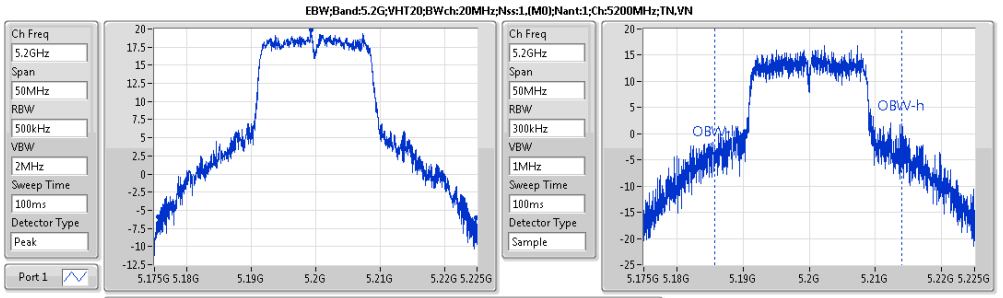
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.925M	5.16475G	5.194675G	17.566M	5.171179G	5.188746G	Inf	1

EBW;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5200MHz;TN,VN



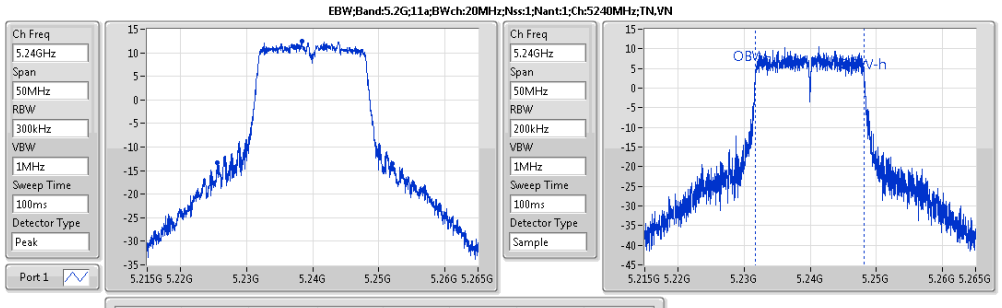
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44.725M	5.1782G	5.222925G	26.462M	5.186607G	5.213068G	Inf	1

EBW;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5200MHz;TN,VN



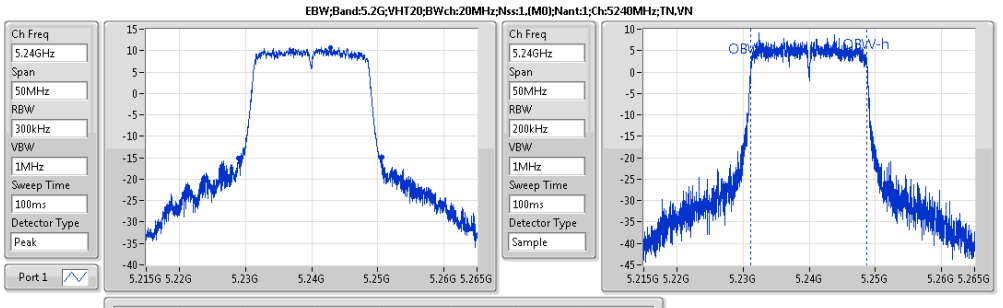
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
49.35M	5.1755G	5.22485G	28.236M	5.185782G	5.214018G	Inf	1

EBW;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5240MHz;TN,VN



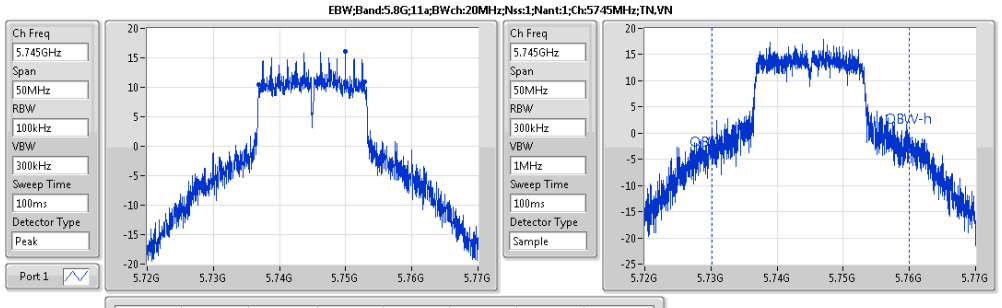
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.4M	5.2256G	5.252G	16.492M	5.231704G	5.248196G	Inf	1

EBW;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5240MHz;TN,VN



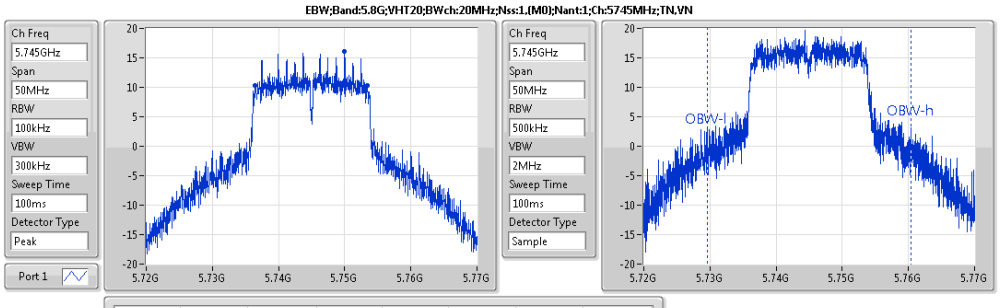
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.675M	5.22895G	5.250625G	17.541M	5.231179G	5.248721G	Inf	1

EBW;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5745MHz;TN,VN



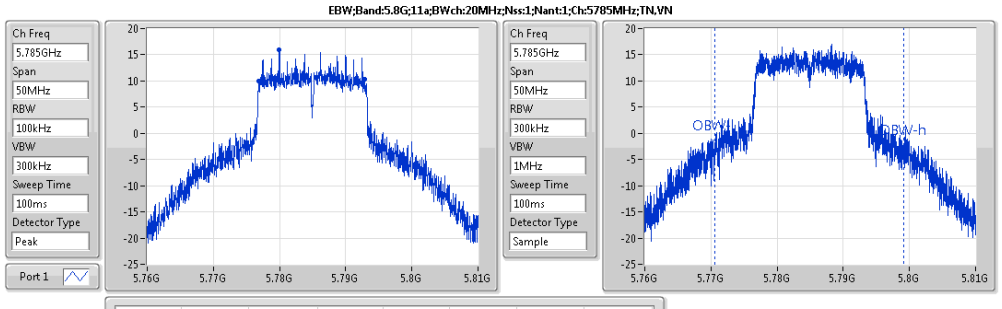
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16M	5.73685G	5.75285G	29.71M	5.730207G	5.759918G	500k	1

EBW;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5745MHz;TN,VN



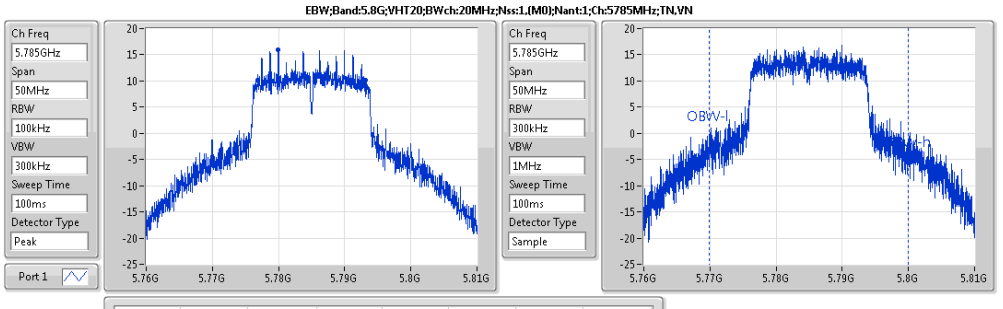
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.9M	5.736475G	5.753375G	30.835M	5.729583G	5.760417G	500k	1

EBW;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5785MHz;TN,VN



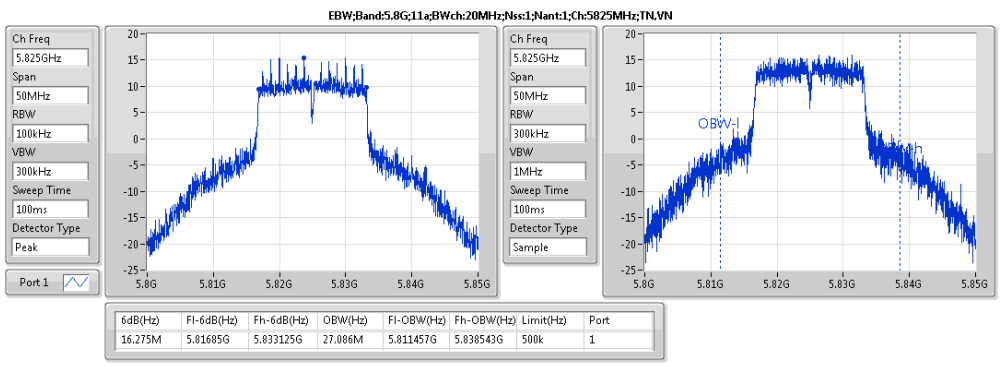
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.025M	5.776825G	5.79285G	28.561M	5.770582G	5.799143G	500k	1

EBW;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5785MHz;TN,VN



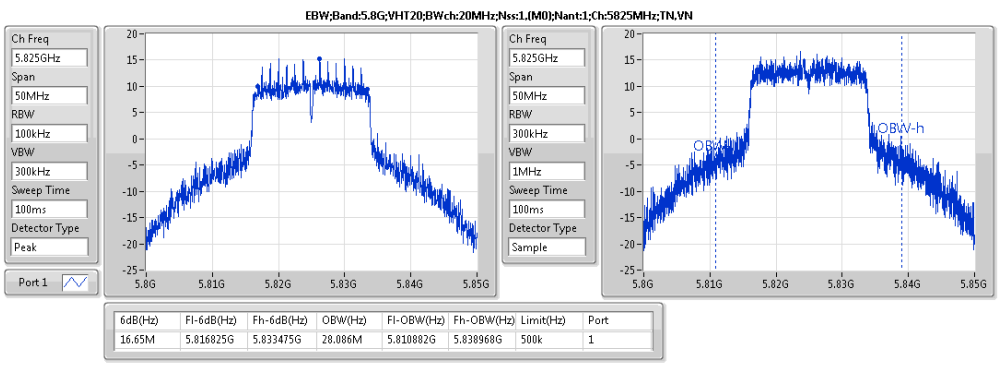
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	5.776825G	5.7931G	30.035M	5.769933G	5.799968G	500k	1

EBW;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5825MHz;TN,VN



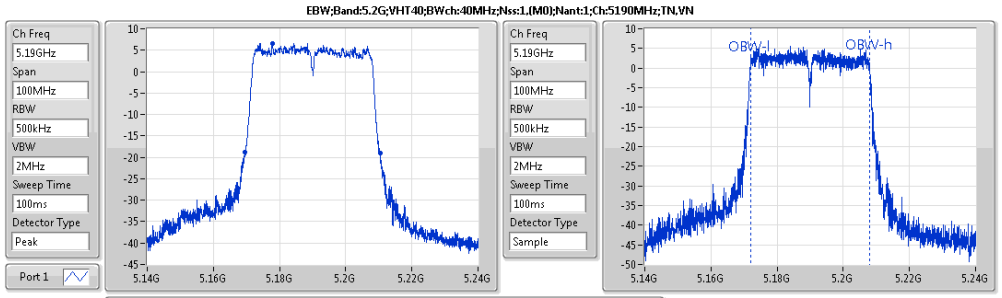
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	5.81685G	5.833125G	27.086M	5.811457G	5.838543G	500k	1

EBW;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5825MHz;TN,VN



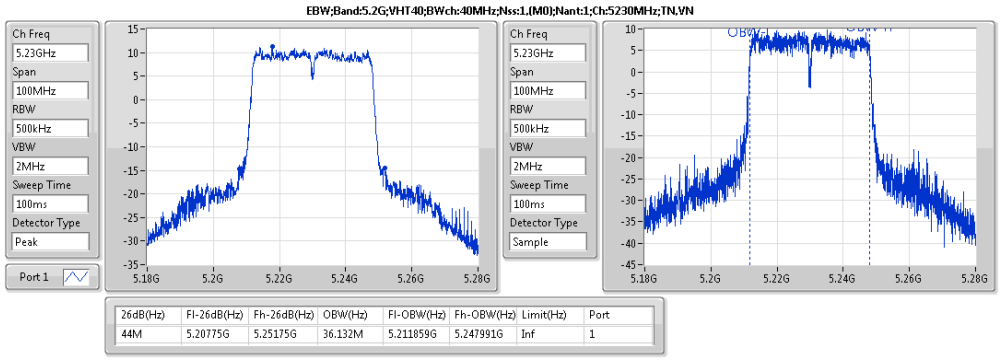
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.65M	5.816825G	5.833475G	28.086M	5.810882G	5.838968G	500k	1

EBW;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5190MHz;TN,VN



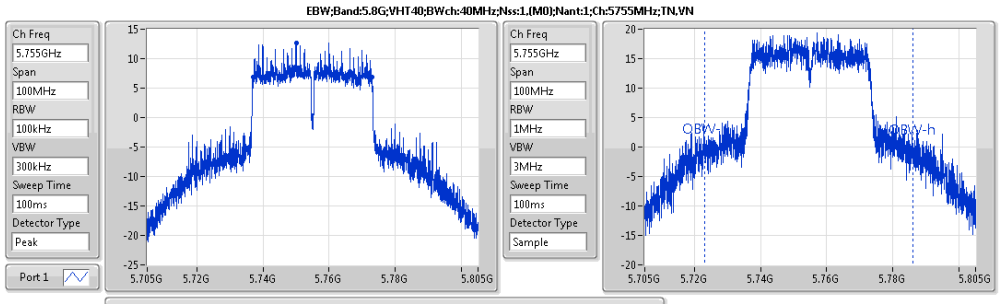
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41M	5.16945G	5.21045G	36.132M	5.171909G	5.208041G	Inf	1

EBW;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5230MHz;TN,VN



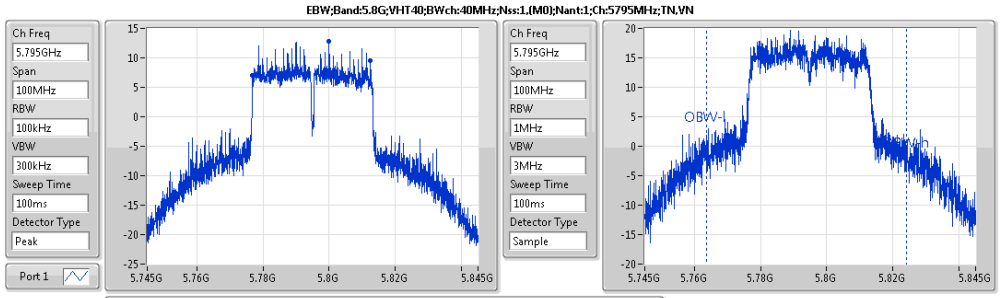
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
44M	5.20775G	5.25175G	36.132M	5.211859G	5.247991G	Inf	1

EBW;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5755MHz;TN,VN



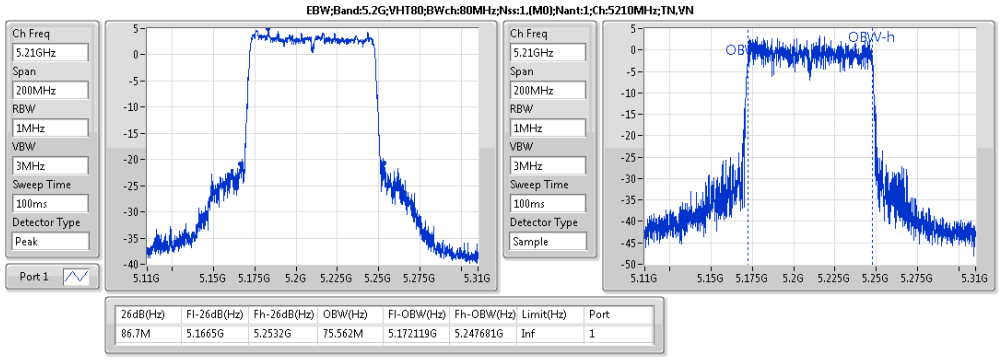
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.75M	5.7371G	5.77285G	63.068M	5.723066G	5.786134G	500k	1

EBW;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5795MHz;TN,VN



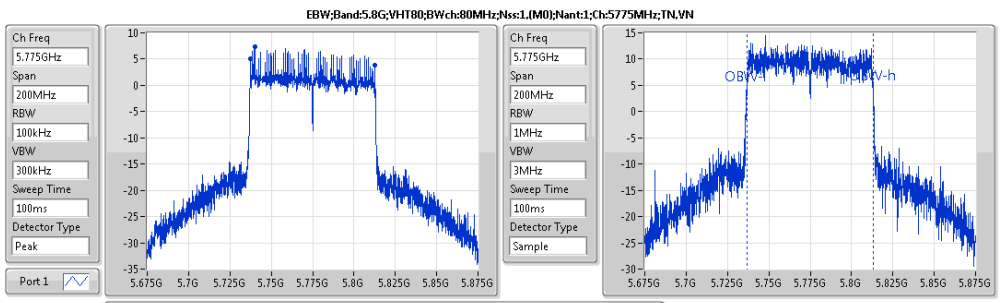
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.65M	5.77685G	5.8125G	60.47M	5.763716G	5.824185G	500k	1

EBW;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5210MHz;TN,VN



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
86.7M	5.1665G	5.2532G	75.562M	5.172119G	5.247681G	Inf	1

EBW;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5775MHz;TN,VN



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75M	5.7375G	5.8125G	76.362M	5.736619G	5.812981G	500k	1

Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;Nss1;Ntx1	22.94	0.19679	25.97	0.39537
5.8G;11a;Nss1;Ntx1	21.90	0.15488	24.87	0.3069
5.2G;VHT20;Nss1,(M0);Ntx1	22.64	0.18365	25.67	0.36898
5.8G;VHT20;Nss1,(M0);Ntx1	21.65	0.14622	24.62	0.28973
5.2G;VHT40;Nss1,(M0);Ntx1	18.03	0.06353	21.06	0.12764
5.8G;VHT40;Nss1,(M0);Ntx1	21.14	0.13002	24.11	0.25763
5.2G;VHT80;Nss1,(M0);Ntx1	9.81	0.00957	12.84	0.01923
5.8G;VHT80;Nss1,(M0);Ntx1	16.68	0.04656	19.65	0.09226

Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)
5.2G;11a;Nss1;Ntx1;5180	Pass	3.03	19.78	30.00	19.78
5.2G;11a;Nss1;Ntx1;5200	Pass	3.03	22.94	30.00	22.94
5.2G;11a;Nss1;Ntx1;5240	Pass	3.03	19.27	30.00	19.27
5.8G;11a;Nss1;Ntx1;5745	Pass	2.97	21.90	30.00	21.90
5.8G;11a;Nss1;Ntx1;5785	Pass	2.97	21.49	30.00	21.49
5.8G;11a;Nss1;Ntx1;5825	Pass	2.97	21.01	30.00	21.01
5.2G;VHT20;Nss1,(M0);Ntx1;5180	Pass	3.03	19.22	30.00	19.22
5.2G;VHT20;Nss1,(M0);Ntx1;5200	Pass	3.03	22.64	30.00	22.64
5.2G;VHT20;Nss1,(M0);Ntx1;5240	Pass	3.03	17.91	30.00	17.91
5.8G;VHT20;Nss1,(M0);Ntx1;5745	Pass	2.97	21.65	30.00	21.65
5.8G;VHT20;Nss1,(M0);Ntx1;5785	Pass	2.97	21.23	30.00	21.23
5.8G;VHT20;Nss1,(M0);Ntx1;5825	Pass	2.97	20.78	30.00	20.78
5.2G;VHT40;Nss1,(M0);Ntx1;5190	Pass	3.03	13.40	30.00	13.40
5.2G;VHT40;Nss1,(M0);Ntx1;5230	Pass	3.03	18.03	30.00	18.03
5.8G;VHT40;Nss1,(M0);Ntx1;5755	Pass	2.97	21.14	30.00	21.14
5.8G;VHT40;Nss1,(M0);Ntx1;5795	Pass	2.97	20.73	30.00	20.73
5.2G;VHT80;Nss1,(M0);Ntx1;5210	Pass	3.03	9.81	30.00	9.81
5.8G;VHT80;Nss1,(M0);Ntx1;5775	Pass	2.97	16.68	30.00	16.68

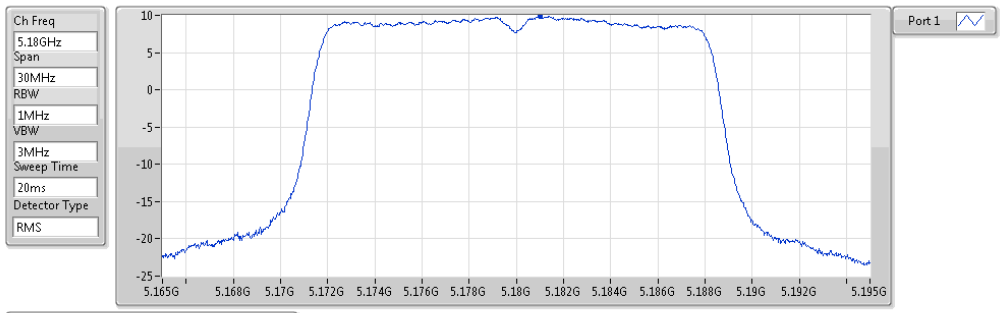
Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;Nss1;Ntx1	13.45	16.48
5.8G;11a;Nss1;Ntx1	12.43	15.40
5.2G;VHT20;Nss1,(M0);Ntx1	13.32	16.35
5.8G;VHT20;Nss1,(M0);Ntx1	12.04	15.01
5.2G;VHT40;Nss1,(M0);Ntx1	4.98	8.01
5.8G;VHT40;Nss1,(M0);Ntx1	9.61	12.58
5.2G;VHT80;Nss1,(M0);Ntx1	-5.11	-2.08
5.8G;VHT80;Nss1,(M0);Ntx1	3.38	6.35

Result

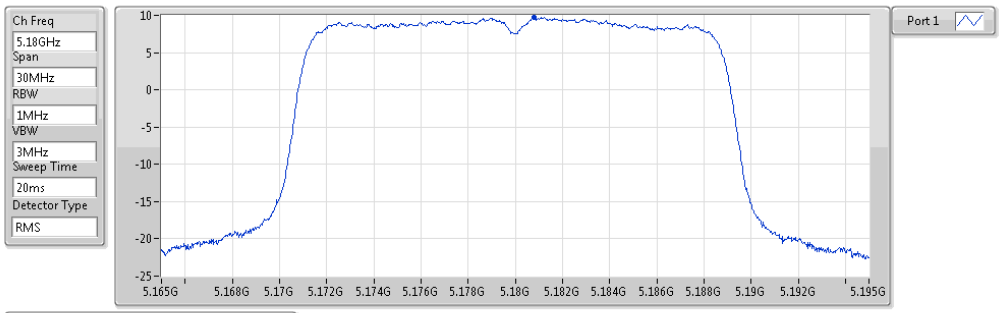
Mode	Result	DG (dBi)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	P1 (dBm/RBW)
5.2G;11a;Nss1;Ntx1;5180	Pass	3.03	9.89	17.00	9.89
5.2G;11a;Nss1;Ntx1;5200	Pass	3.03	13.45	17.00	13.45
5.2G;11a;Nss1;Ntx1;5240	Pass	3.03	8.75	17.00	8.75
5.8G;11a;Nss1;Ntx1;5745	Pass	2.97	12.43	30.00	12.43
5.8G;11a;Nss1;Ntx1;5785	Pass	2.97	12.35	30.00	12.35
5.8G;11a;Nss1;Ntx1;5825	Pass	2.97	11.97	30.00	11.97
5.2G;VHT20;Nss1,(M0);Ntx1;5180	Pass	3.03	9.73	17.00	9.73
5.2G;VHT20;Nss1,(M0);Ntx1;5200	Pass	3.03	13.32	17.00	13.32
5.2G;VHT20;Nss1,(M0);Ntx1;5240	Pass	3.03	7.61	17.00	7.61
5.8G;VHT20;Nss1,(M0);Ntx1;5745	Pass	2.97	12.04	30.00	12.04
5.8G;VHT20;Nss1,(M0);Ntx1;5785	Pass	2.97	11.79	30.00	11.79
5.8G;VHT20;Nss1,(M0);Ntx1;5825	Pass	2.97	11.47	30.00	11.47
5.2G;VHT40;Nss1,(M0);Ntx1;5190	Pass	3.03	0.57	17.00	0.57
5.2G;VHT40;Nss1,(M0);Ntx1;5230	Pass	3.03	4.98	17.00	4.98
5.8G;VHT40;Nss1,(M0);Ntx1;5755	Pass	2.97	9.61	30.00	9.61
5.8G;VHT40;Nss1,(M0);Ntx1;5795	Pass	2.97	8.84	30.00	8.84
5.2G;VHT80;Nss1,(M0);Ntx1;5210	Pass	3.03	-5.11	17.00	-5.11
5.8G;VHT80;Nss1,(M0);Ntx1;5775	Pass	2.97	3.38	30.00	3.38

PSD;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5180MHz;TN,VN



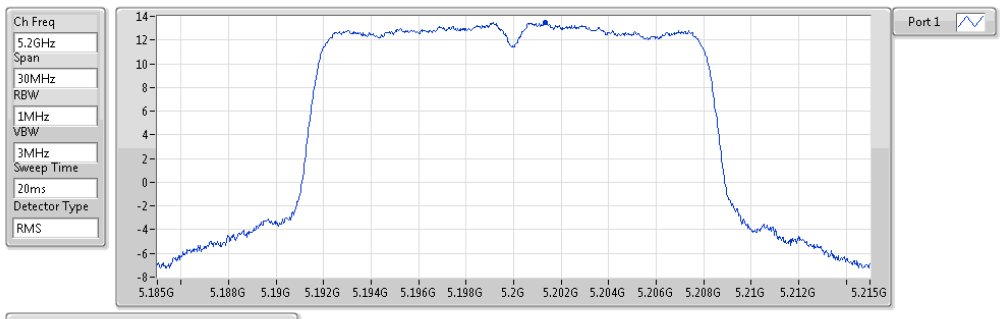
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.89	9.89	9.89

PSD;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5180MHz;TN,VN



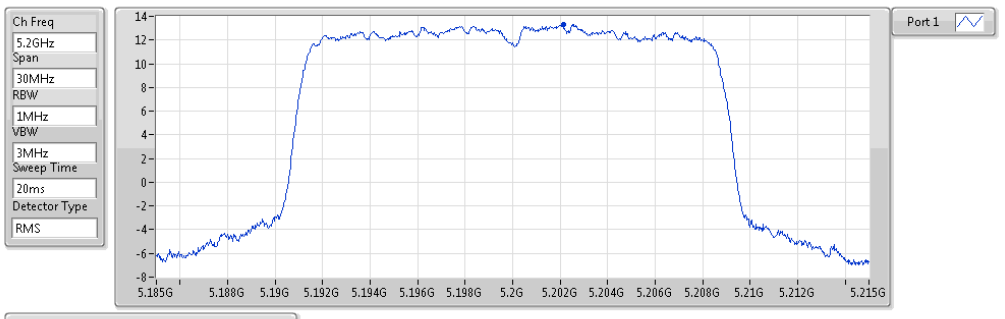
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.73	9.73	9.73

PSD;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5200MHz;TN,VN



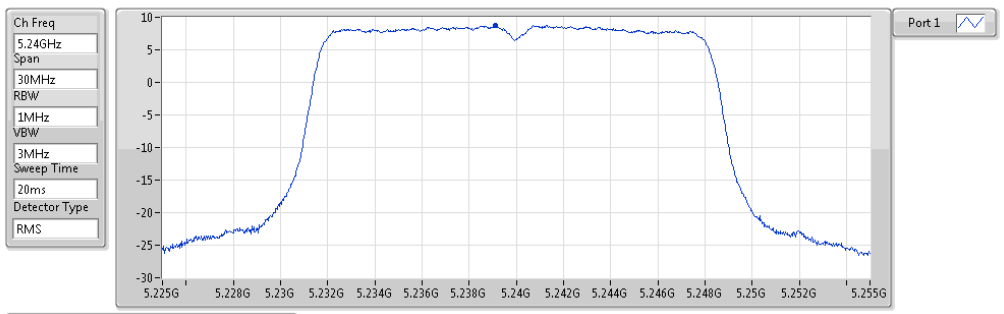
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.45	13.45	13.45

PSD;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5200MHz;TN,VN



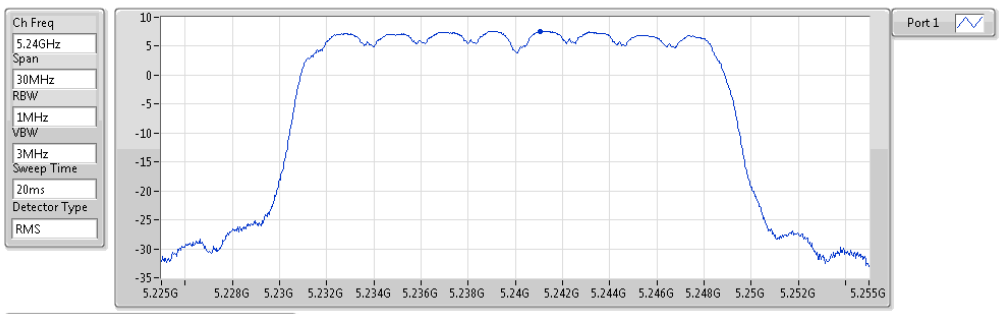
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.32	13.32	13.32

PSD;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5240MHz;TN,VN



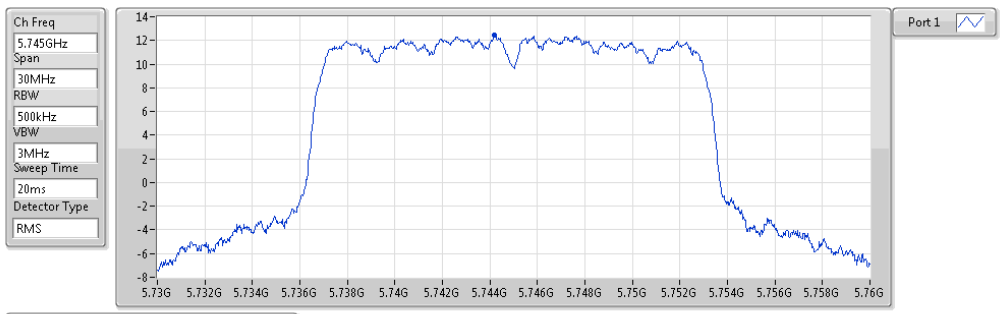
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.75	8.75	8.75

PSD;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5240MHz;TN,VN



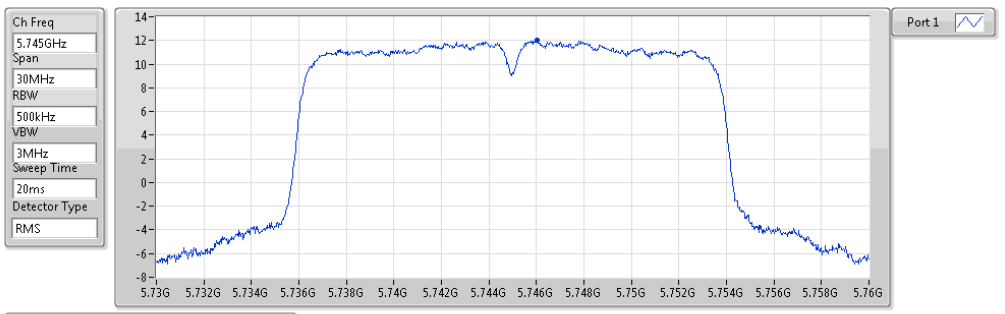
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.61	7.61	7.61

PSD;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5745MHz;TN,VN



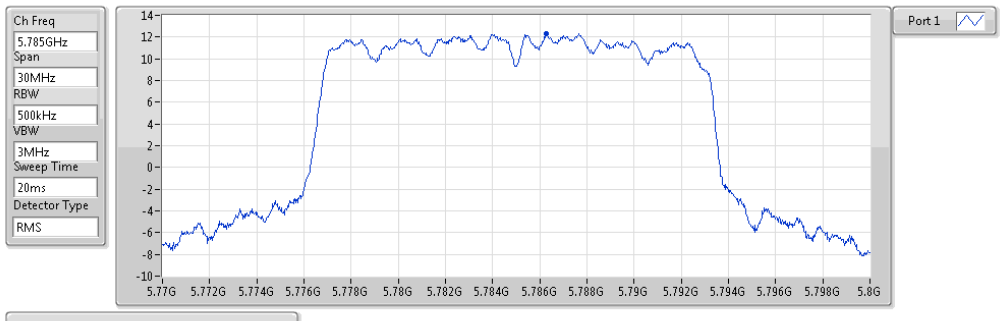
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.43	12.43	12.43

PSD;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5745MHz;TN,VN



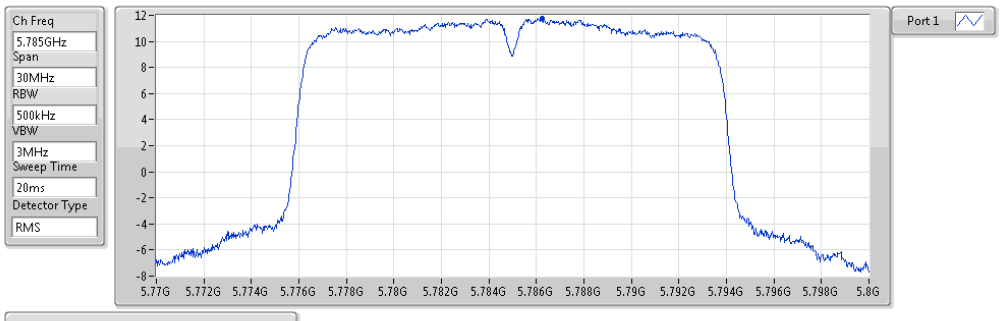
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.04	12.04	12.04

PSD;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5785MHz;TN,VN



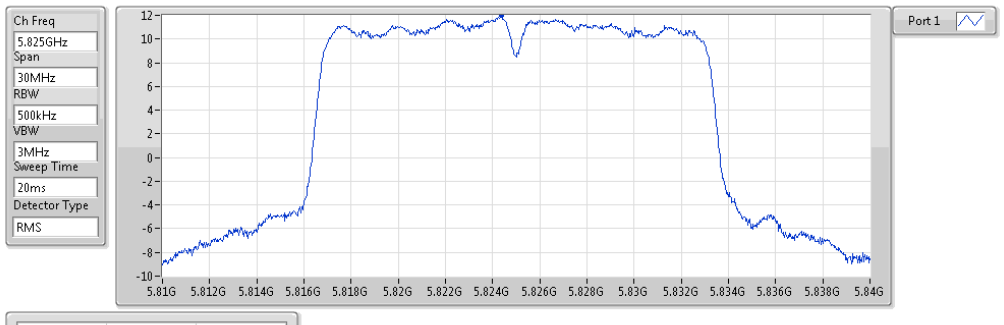
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.35	12.35	12.35

PSD;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5785MHz;TN,VN



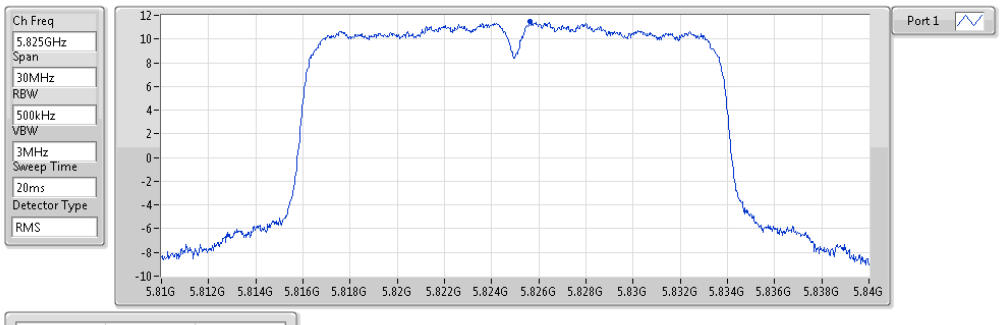
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.79	11.79	11.79

PSD;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5825MHz;TN,VN



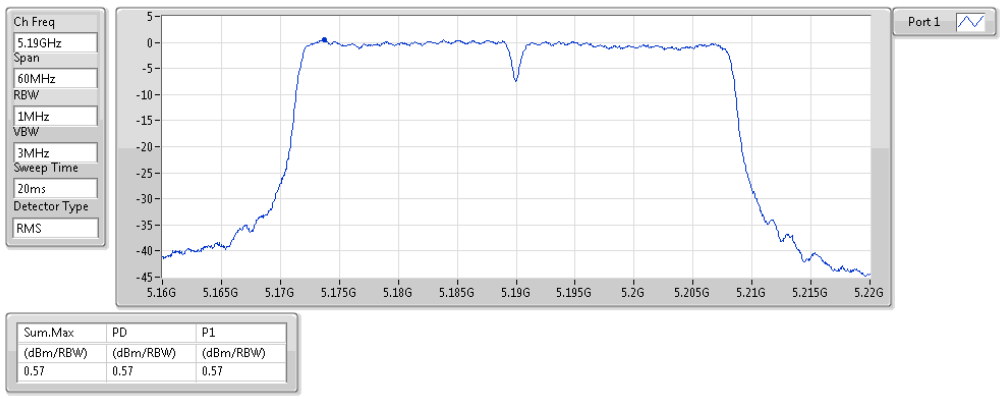
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.97	11.97	11.97

PSD;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5825MHz;TN,VN



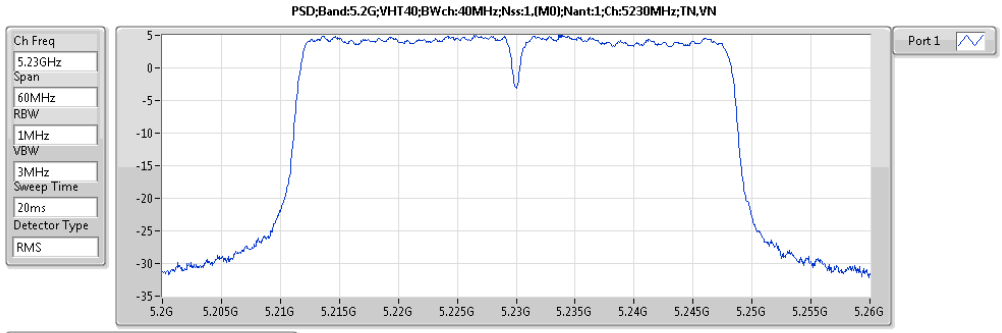
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.47	11.47	11.47

PSD;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5190MHz;TN,VN



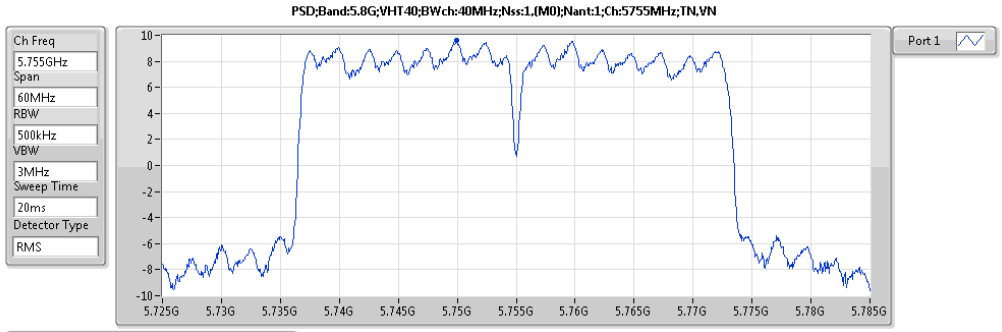
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.57	0.57	0.57

PSD;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5230MHz;TN,VN



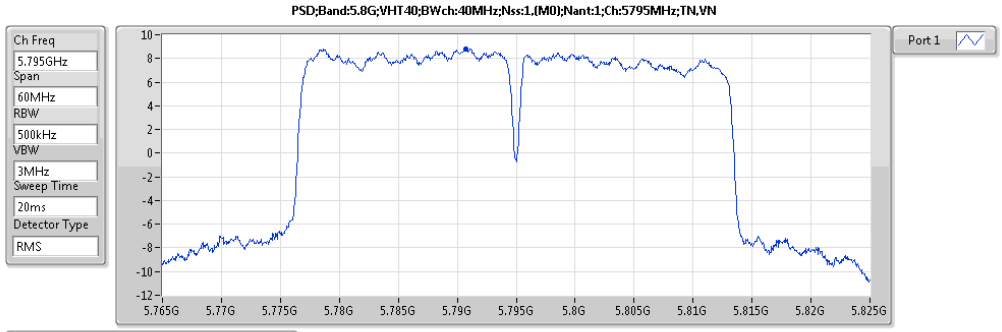
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.98	4.98	4.98

PSD;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5755MHz;TN,VN



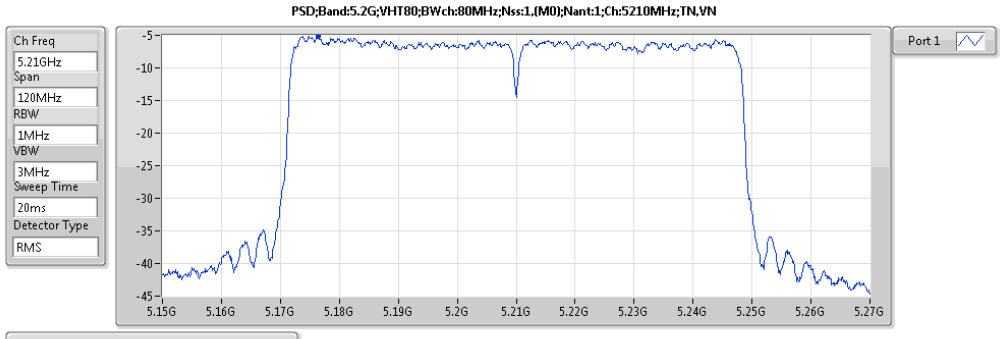
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.61	9.61	9.61

PSD;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5795MHz;TN,VN



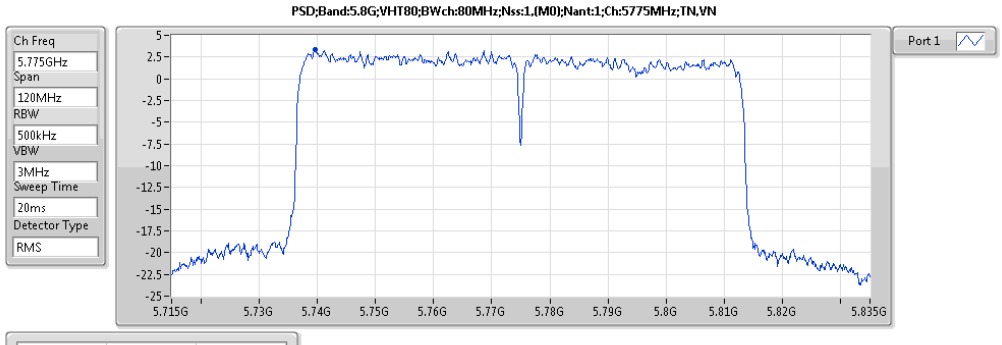
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.84	8.84	8.84

PSD;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5210MHz;TN,VN



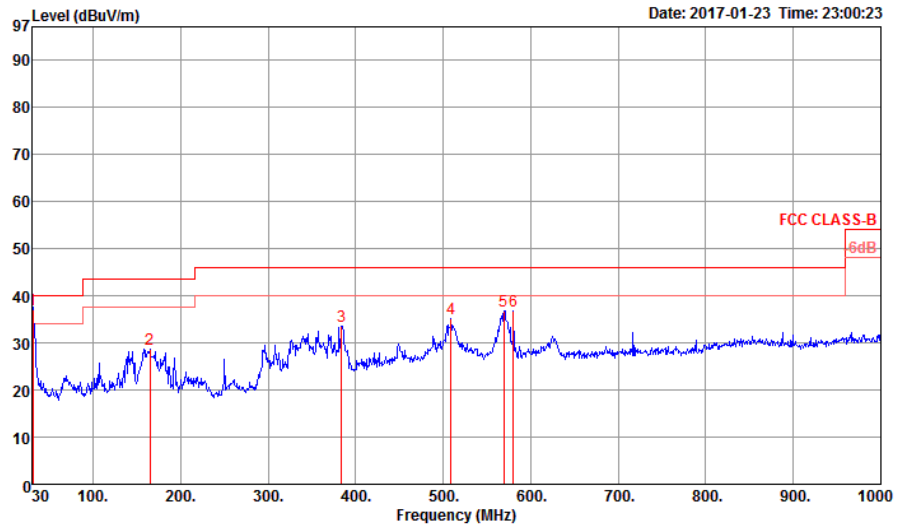
Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.11	-5.11	-5.11

PSD;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5775MHz;TN,VN



Sum.Max	PD	P1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.38	3.38	3.38

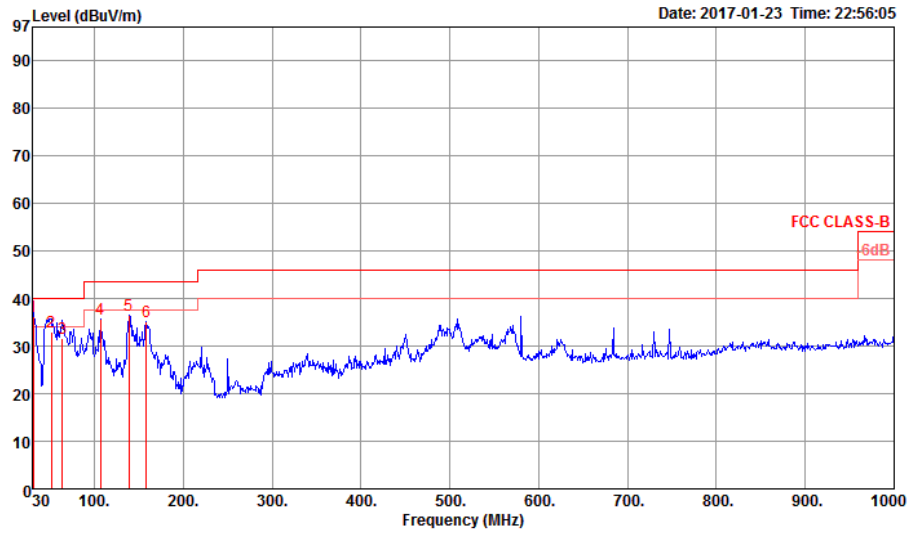
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	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	30.97	36.93	40.00	-3.07	39.48	2.11	24.93	29.59	105	124	QP	HORIZONTAL
2	164.83	28.70	43.50	-14.80	39.08	2.40	16.25	29.03	200	0	Peak	HORIZONTAL
3	384.05	33.55	46.00	-12.45	37.79	3.06	21.89	29.19	200	0	Peak	HORIZONTAL
4	509.18	35.14	46.00	-10.86	37.27	3.47	23.84	29.44	200	0	Peak	HORIZONTAL
5	569.32	36.84	46.00	-9.16	37.71	3.61	24.81	29.29	200	0	Peak	HORIZONTAL
6	579.99	36.83	46.00	-9.17	37.55	3.65	24.89	29.26	200	0	Peak	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	1	**Power Phase**	Vertical
Operating Function	Normal Link		



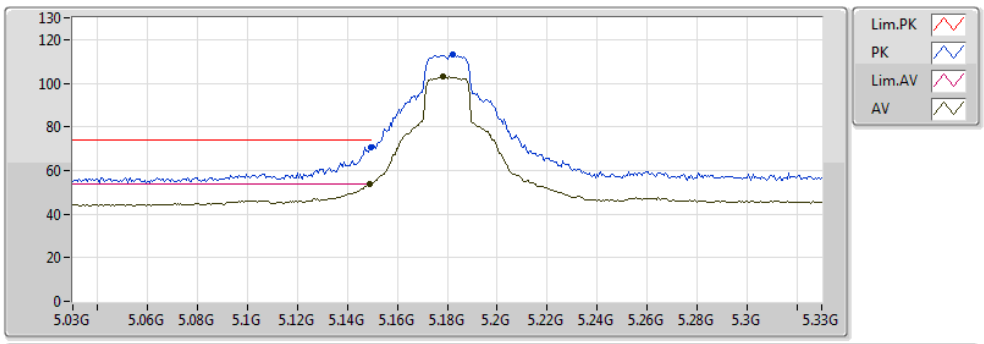
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	30.97	36.24	40.00	-3.76	38.79	2.11	24.93	29.59	113	96	QP	VERTICAL
2	51.34	33.08	40.00	-6.92	45.76	2.17	14.68	29.53	117	90	QP	VERTICAL
3	63.95	31.69	40.00	-8.31	46.49	2.17	12.52	29.49	113	114	QP	VERTICAL
4	106.63	35.54	43.50	-7.96	44.97	2.24	17.65	29.32	200	0	Peak	VERTICAL
5	138.64	36.46	43.50	-7.04	45.66	2.30	17.66	29.16	200	0	Peak	VERTICAL
6	158.04	35.05	43.50	-8.45	45.24	2.39	16.48	29.06	200	0	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)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;VHT20;Nss1,(M0);Ntx1;5200	Pass	AV	15.60334G	53.98	54.00	-0.02	3.76	3	V	73	2.68	-

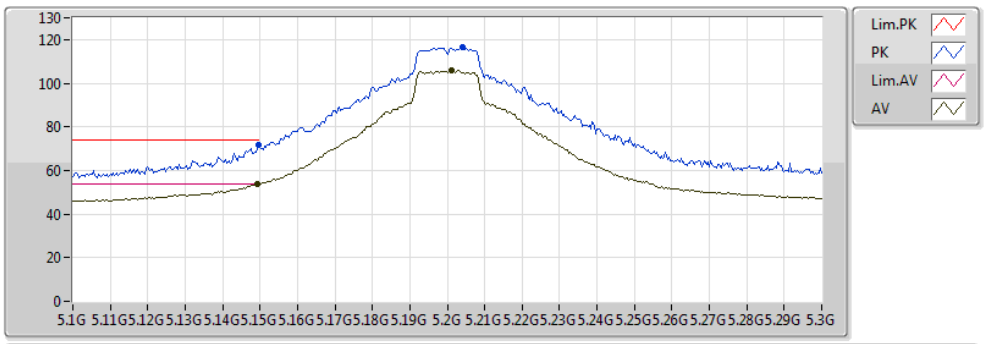
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5180MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting:22
04-N-2-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1488G	53.82	54.00	-0.18	-7.90	3	V	172	1.06	-
AV	5.1782G	103.11	Inf	-Inf	-7.81	3	V	172	1.06	-
PK	5.1494G	70.72	74.00	-3.28	-7.90	3	V	172	1.06	-
PK	5.1824G	112.99	Inf	-Inf	-7.79	3	V	172	1.06	-

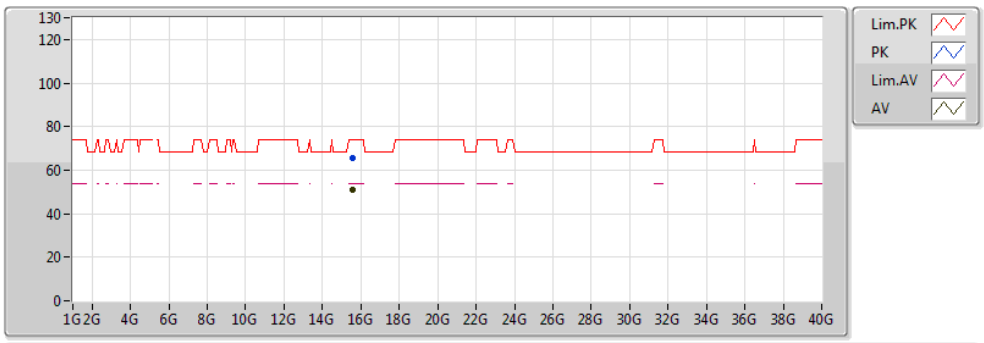
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5200MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 36
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1492G	53.81	54.00	-0.19	-7.90	3	V	167	1.23	-
AV	5.2012G	105.92	Inf	-Inf	-7.74	3	V	167	1.23	-
PK	5.1496G	71.58	74.00	-2.42	-7.90	3	V	167	1.23	-
PK	5.204G	116.29	Inf	-Inf	-7.74	3	V	167	1.23	-

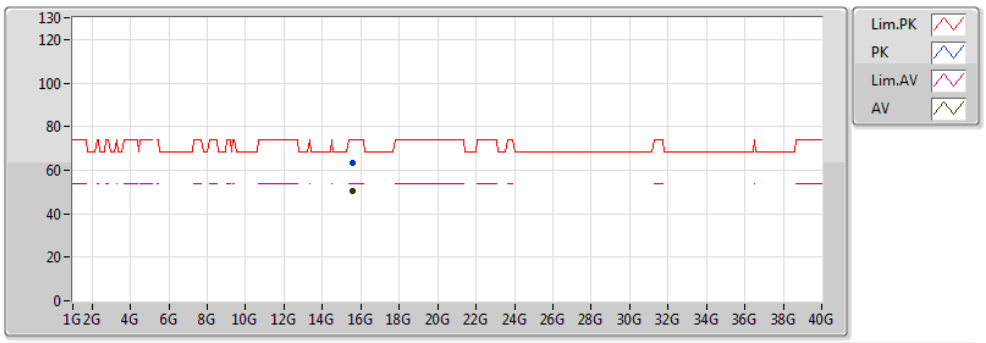
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5180MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 22
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.54006G	50.88	54.00	-3.12	4.18	3	V	75	1.96	-
PK	15.5377G	65.43	74.00	-8.57	4.18	3	V	75	1.96	-

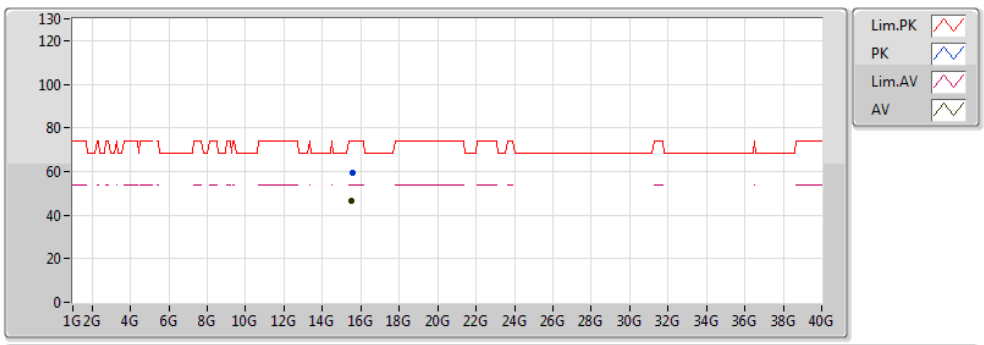
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5200MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 36
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5998G	50.22	54.00	-3.78	4.13	3	V	191	1.99	-
PK	15.6G	63.40	74.00	-10.60	4.13	3	V	191	1.99	-

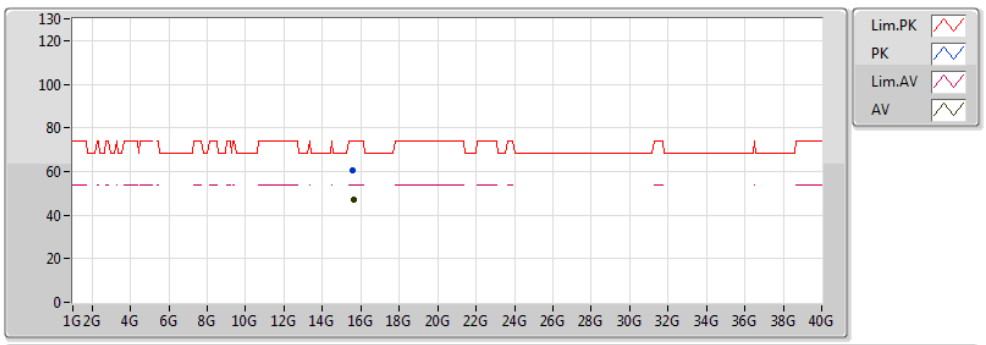
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5180MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 22
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5355G	46.33	54.00	-7.67	4.18	3	H	328	2.70	-
PK	15.54266G	59.16	74.00	-14.84	4.18	3	H	328	2.70	-

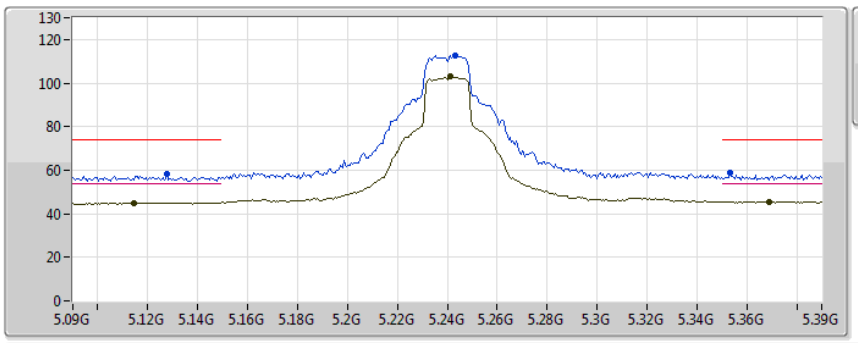
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5200MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 36
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60272G	47.33	54.00	-6.67	4.13	3	H	270	2.03	-
PK	15.59648G	60.41	74.00	-13.59	4.13	3	H	270	2.03	-

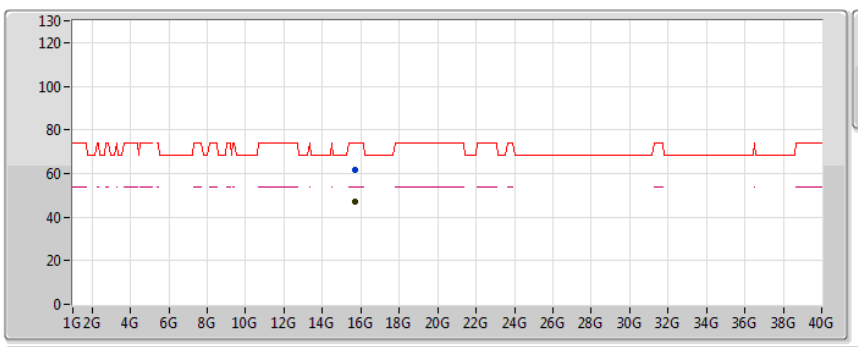
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5240MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 21
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1146G	45.08	54.00	-8.92	-8.00	3	V	183	1.16	-
AV	5.2412G	102.94	Inf	-Inf	-7.71	3	V	183	1.16	-
AV	5.369G	45.60	54.00	-8.40	-7.64	3	V	183	1.16	-
PK	5.1278G	58.25	74.00	-15.75	-7.96	3	V	183	1.16	-
PK	5.243G	112.69	Inf	-Inf	-7.71	3	V	183	1.16	-
PK	5.3534G	58.65	74.00	-15.35	-7.65	3	V	183	1.16	-

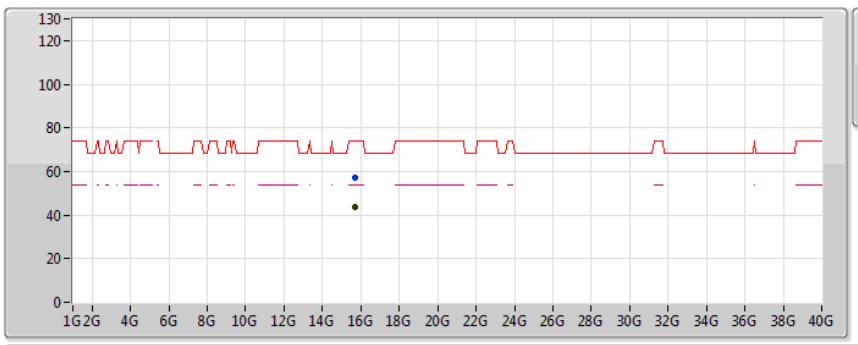
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5240MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 21
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72014G	46.84	54.00	-7.16	4.03	3	V	279	2.08	-
PK	15.7175G	61.51	74.00	-12.49	4.03	3	V	279	2.08	-

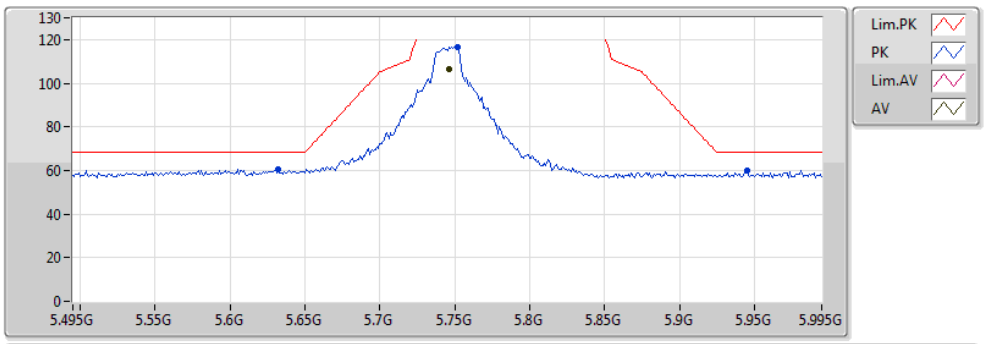
RE TX above 1GHz;Band:5.2G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5240MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 21
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.72294G	43.46	54.00	-10.54	4.03	3	H	141	2.00	-
PK	15.72484G	57.12	74.00	-16.88	4.03	3	H	141	2.00	-

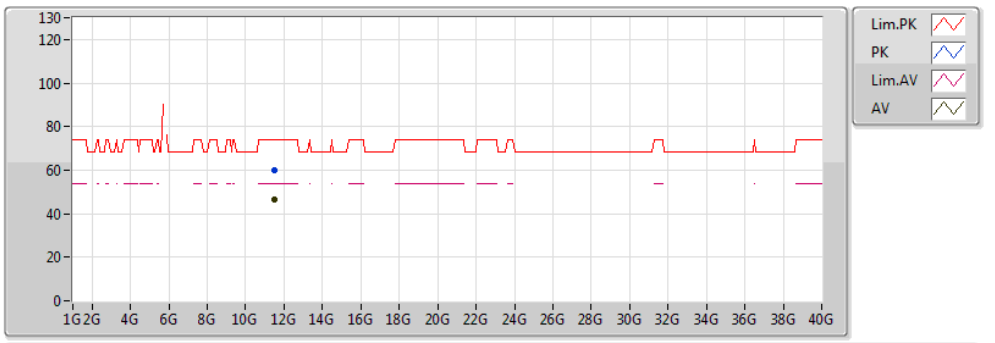
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5745MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.746G	106.34	Inf	-Inf	-6.62	3	V	138	1.88	-
PK	5.632G	60.53	68.20	-7.67	-6.70	3	V	138	1.88	-
PK	5.752G	116.63	Inf	-Inf	-6.61	3	V	138	1.88	-
PK	5.945G	59.86	68.20	-8.34	-5.82	3	V	138	1.88	-

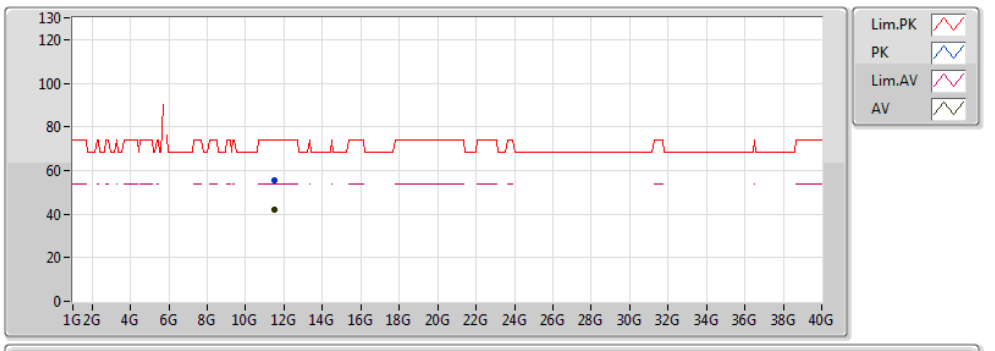
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5745MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48992G	46.45	54.00	-7.55	3.08	3	V	270	2.27	-
PK	11.49176G	60.04	74.00	-13.96	3.08	3	V	270	2.27	-

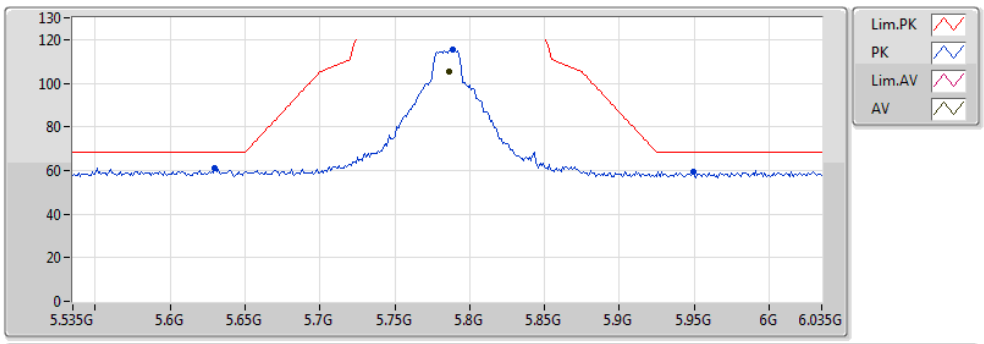
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5745MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.48764G	42.27	54.00	-11.73	3.08	3	H	116	2.52	-
PK	11.48848G	55.71	74.00	-18.29	3.08	3	H	116	2.52	-

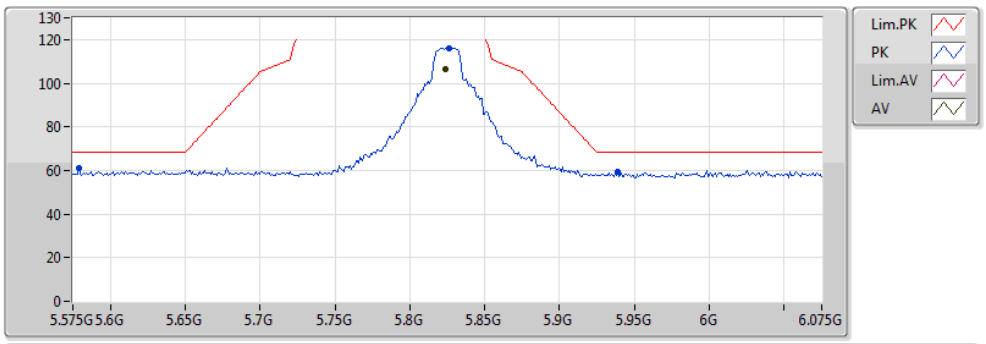
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5785MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.786G	105.19	Inf	-Inf	-6.59	3	V	222	1.75	-
PK	5.63G	61.32	68.20	-6.88	-6.70	3	V	222	1.75	-
PK	5.789G	115.22	Inf	-Inf	-6.59	3	V	222	1.75	-
PK	5.949G	59.54	68.20	-8.66	-5.80	3	V	222	1.75	-

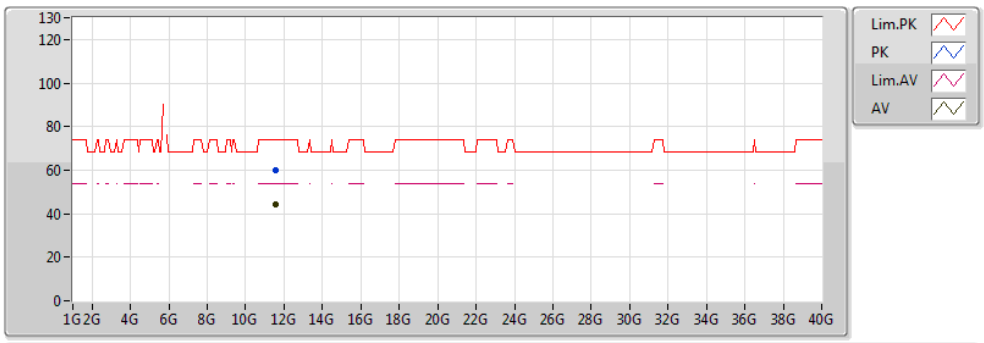
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5825MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting:43
04-N-2-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.824G	106.51	Inf	-Inf	-6.46	3	V	230	2.07	-
PK	5.579G	60.88	68.20	-7.32	-6.82	3	V	230	2.07	-
PK	5.826G	116.17	Inf	-Inf	-6.44	3	V	230	2.07	-
PK	5.939G	59.33	68.20	-8.87	-5.85	3	V	230	2.07	-

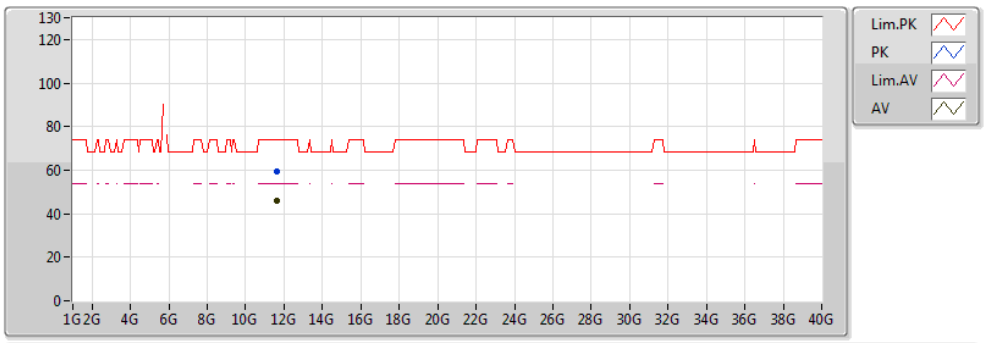
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5785MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.56952G	44.36	54.00	-9.64	3.05	3	V	81	2.17	-
PK	11.5691G	59.69	74.00	-14.31	3.06	3	V	81	2.17	-

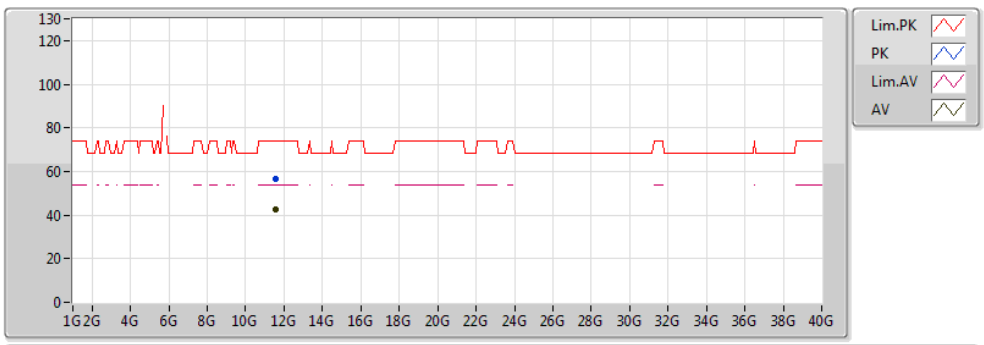
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5825MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.64992G	46.14	54.00	-7.86	3.03	3	V	265	2.30	-
PK	11.64832G	59.50	74.00	-14.50	3.03	3	V	265	2.30	-

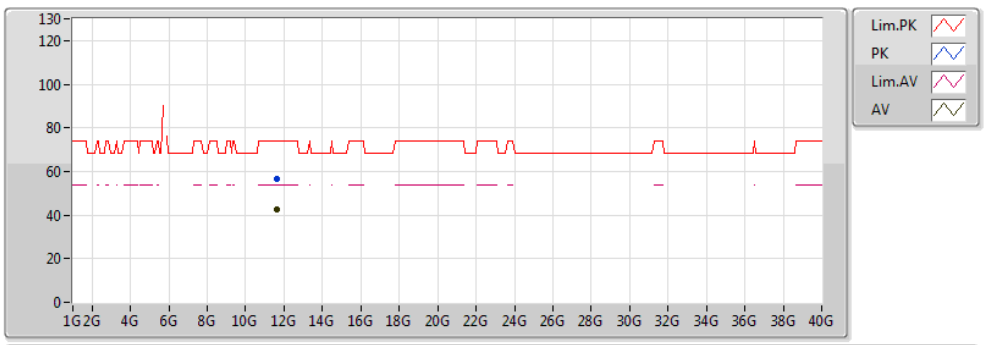
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5785MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.56784G	42.82	54.00	-11.18	3.06	3	H	257	2.68	-
PK	11.5736G	56.32	74.00	-17.68	3.05	3	H	257	2.68	-

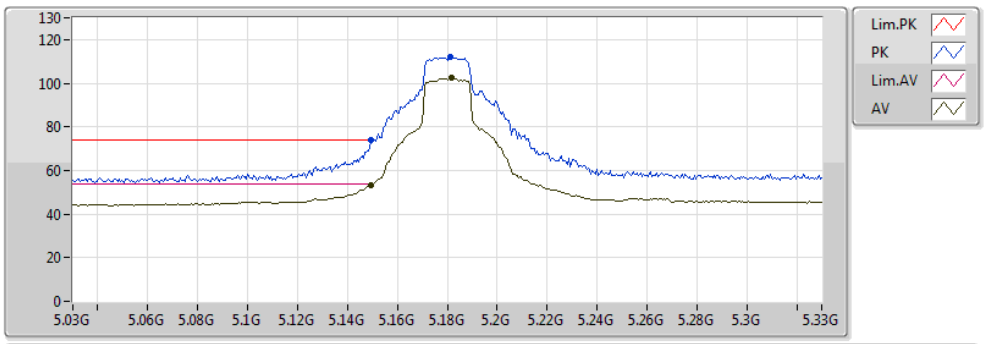
RE TX above 1GHz;Band:5.8G;11a;BWch:20MHz;Nss:1;Nant:1;Ch:5825MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.64576G	42.84	54.00	-11.16	3.03	3	H	44	2.98	-
PK	11.65388G	56.35	74.00	-17.65	3.02	3	H	44	2.98	-

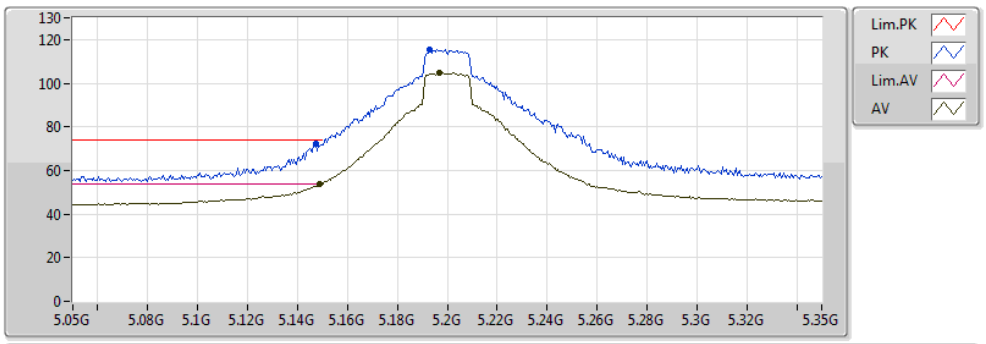
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5180MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting:22
04-N-2-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1494G	53.17	54.00	-0.83	-7.90	3	V	181	1.04	-
AV	5.1818G	102.28	Inf	-Inf	-7.80	3	V	181	1.04	-
PK	5.1494G	73.76	74.00	-0.24	-7.90	3	V	181	1.04	-
PK	5.1812G	111.83	Inf	-Inf	-7.80	3	V	181	1.04	-

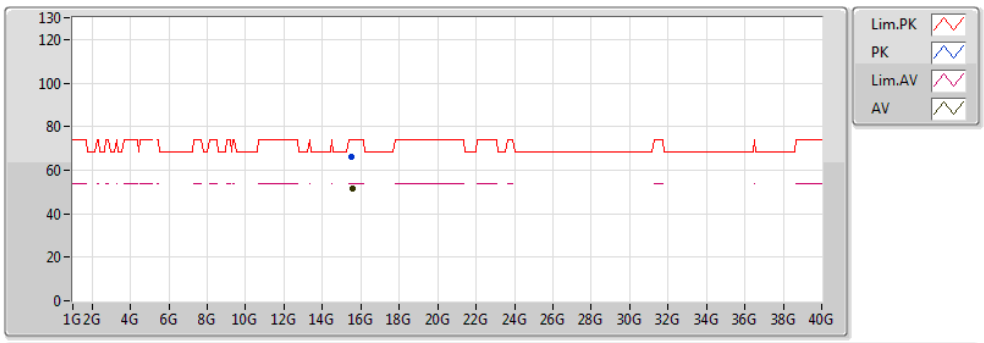
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5200MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 36
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.149G	53.91	54.00	-0.09	-7.90	3	V	178	1.50	-
AV	5.197G	104.86	Inf	-Inf	-7.75	3	V	178	1.50	-
PK	5.1472G	72.51	74.00	-1.49	-7.90	3	V	178	1.50	-
PK	5.1928G	115.50	Inf	-Inf	-7.76	3	V	178	1.50	-

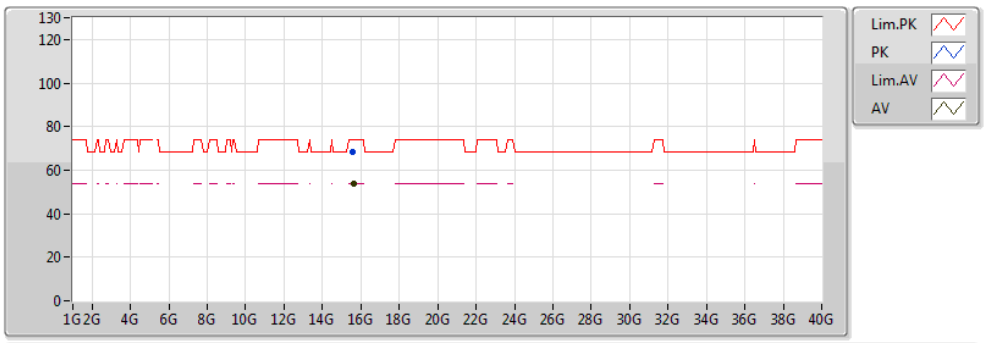
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5180MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 22
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53958G	51.56	54.00	-2.44	4.18	3	V	75	2.06	-
PK	15.53618G	66.32	74.00	-7.68	4.18	3	V	75	2.06	-

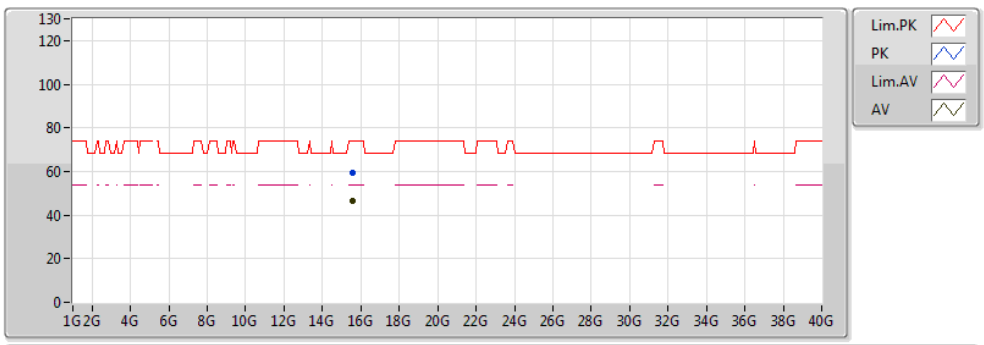
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5200MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 36
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60334G	53.98	54.00	-0.02	3.76	3	V	73	2.68	-
PK	15.59638G	68.58	74.00	-5.42	3.77	3	V	73	2.68	-

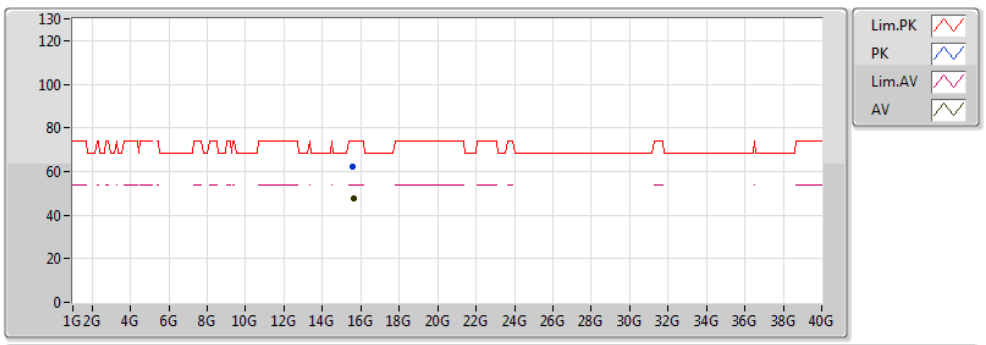
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5180MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 22
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.53792G	46.23	54.00	-7.77	4.18	3	H	329	2.77	-
PK	15.54156G	59.51	74.00	-14.49	4.18	3	H	329	2.77	-

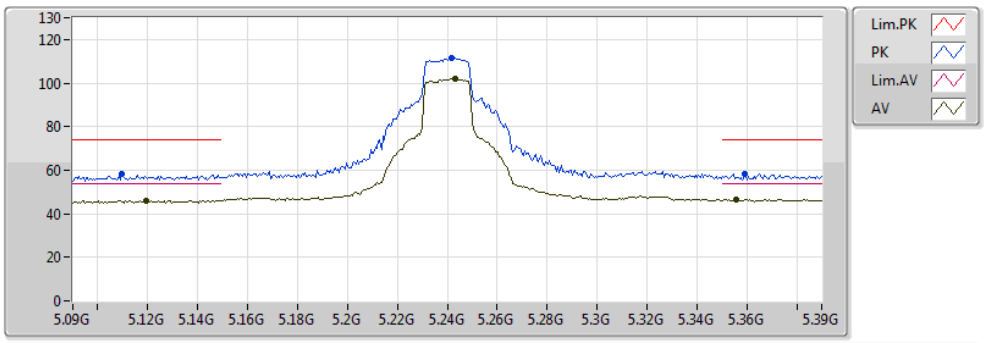
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5200MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 36
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.60296G	47.73	54.00	-6.27	3.76	3	H	80	2.88	-
PK	15.59578G	62.04	74.00	-11.96	3.77	3	H	80	2.88	-

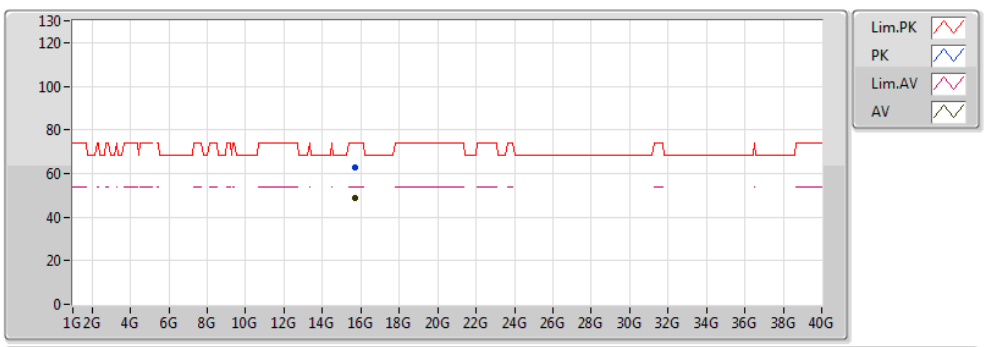
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5240MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 18
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1194G	46.18	54.00	-7.82	-7.99	3	V	177	1.18	-
AV	5.243G	102.21	Inf	-Inf	-7.71	3	V	177	1.18	-
AV	5.3558G	46.72	54.00	-7.28	-7.65	3	V	177	1.18	-
PK	5.1098G	58.10	74.00	-15.90	-8.02	3	V	177	1.18	-
PK	5.2418G	111.39	Inf	-Inf	-7.71	3	V	177	1.18	-
PK	5.3594G	58.22	74.00	-15.78	-7.65	3	V	177	1.18	-

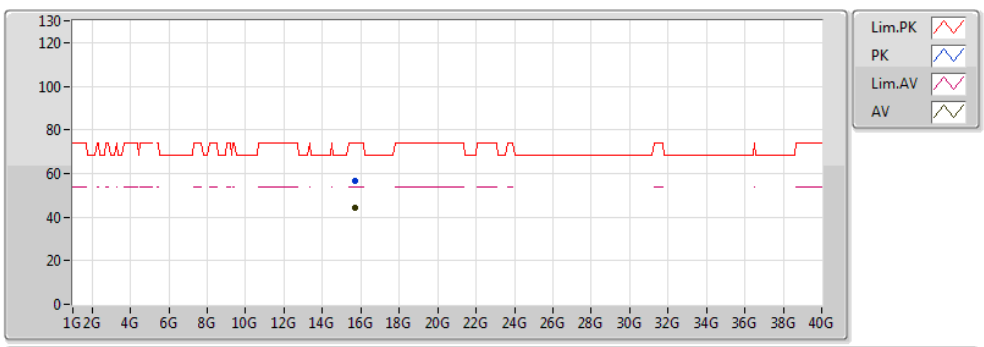
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5240MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 18
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.71936G	48.95	54.00	-5.05	4.03	3	V	79	2.90	-
PK	15.72376G	62.88	74.00	-11.12	4.03	3	V	79	2.90	-

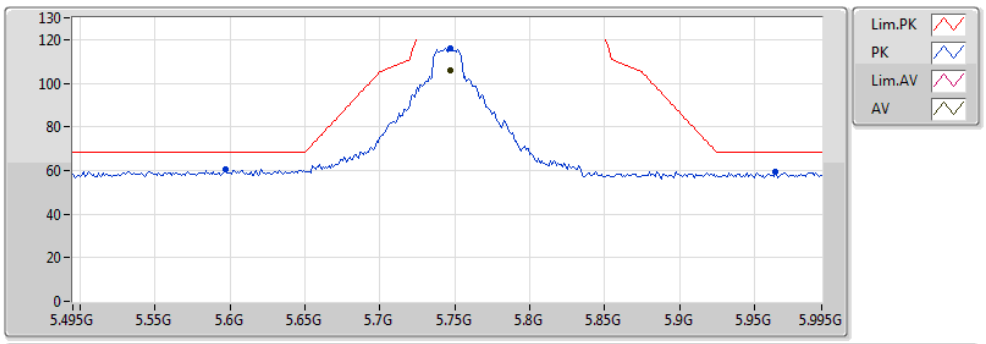
RE TX above 1GHz;Band:5.2G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5240MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 18
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7223G	44.20	54.00	-9.80	4.03	3	H	186	1.02	-
PK	15.72192G	56.75	74.00	-17.25	4.03	3	H	186	1.02	-

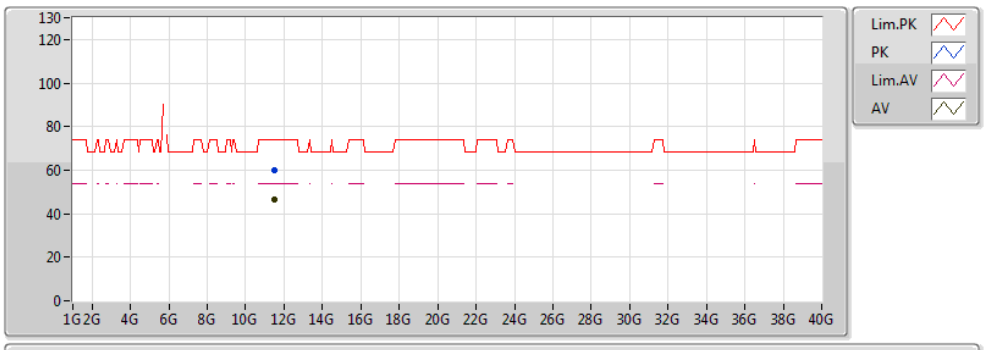
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5745MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.747G	105.90	Inf	-Inf	-6.62	3	V	135	1.90	-
PK	5.597G	60.55	68.20	-7.65	-6.73	3	V	135	1.90	-
PK	5.747G	115.93	Inf	-Inf	-6.62	3	V	135	1.90	-
PK	5.964G	59.25	68.20	-8.95	-5.72	3	V	135	1.90	-

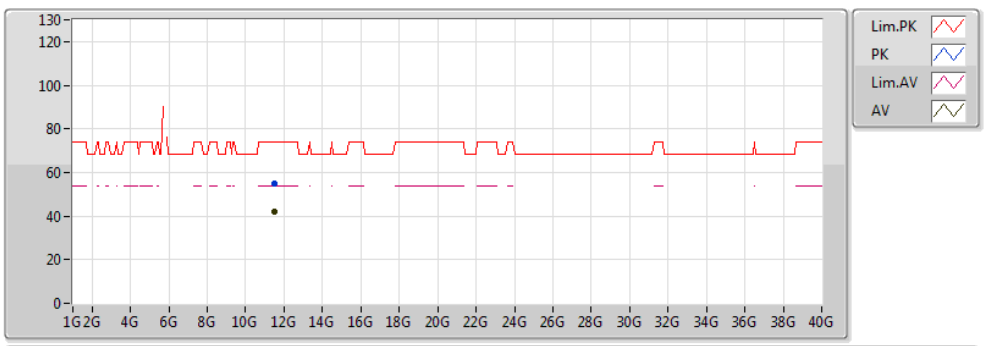
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5745MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.49G	46.53	54.00	-7.47	3.16	3	V	270	2.32	-
PK	11.49174G	59.90	74.00	-14.10	3.15	3	V	270	2.32	-

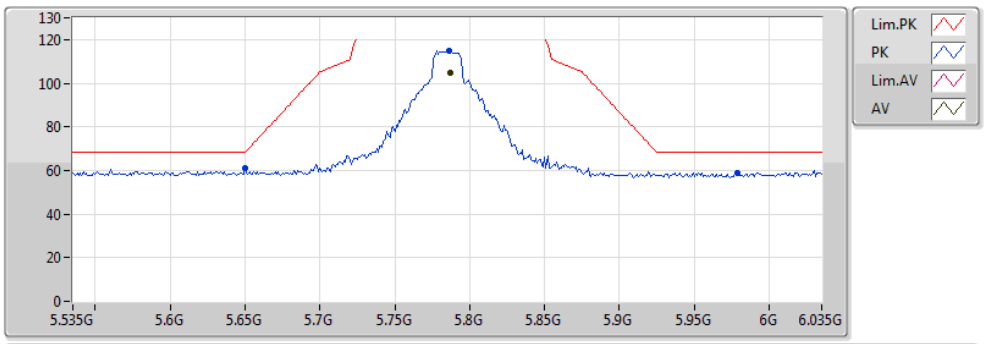
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5745MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4873G	42.27	54.00	-11.73	3.16	3	H	355	1.65	-
PK	11.4915G	55.07	74.00	-18.93	3.15	3	H	355	1.65	-

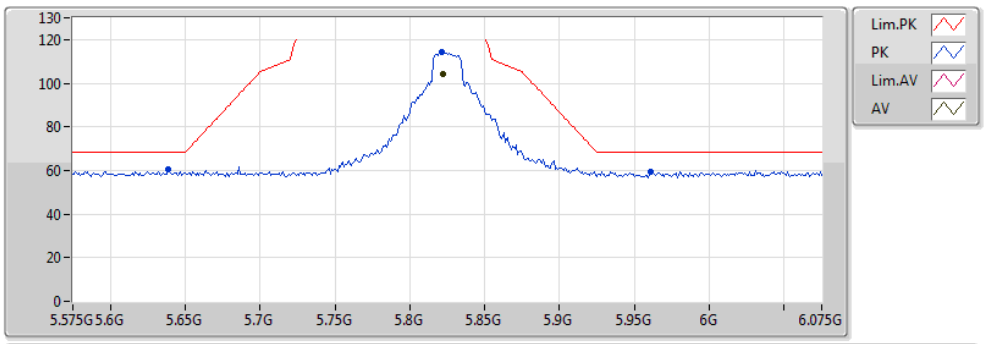
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5785MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.787G	104.86	Inf	-Inf	-6.59	3	V	212	1.77	-
PK	5.65G	60.87	68.20	-7.33	-6.69	3	V	212	1.77	-
PK	5.786G	114.76	Inf	-Inf	-6.59	3	V	212	1.77	-
PK	5.979G	58.98	68.20	-9.22	-5.64	3	V	212	1.77	-

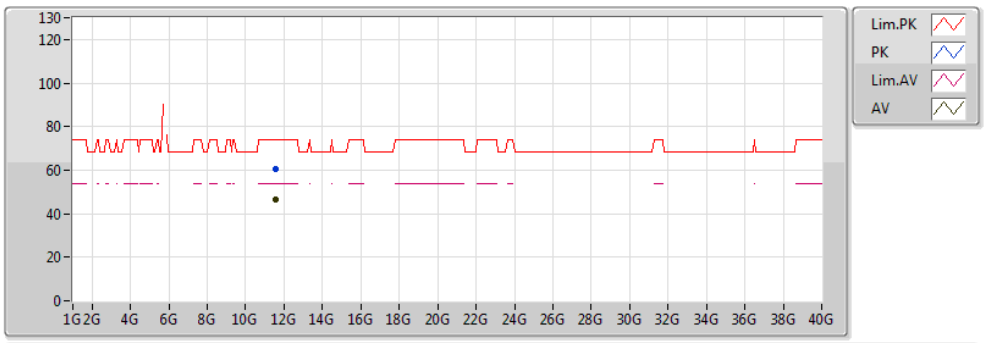
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5825MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.822G	104.43	Inf	-Inf	-6.47	3	V	274	1.74	-
PK	5.639G	60.64	68.20	-7.56	-6.69	3	V	274	1.74	-
PK	5.821G	114.39	Inf	-Inf	-6.47	3	V	274	1.74	-
PK	5.961G	59.65	68.20	-8.55	-5.74	3	V	274	1.74	-

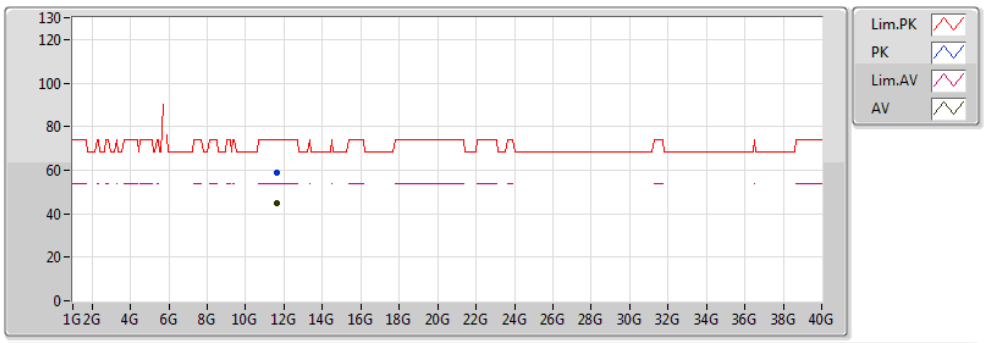
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5785MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57002G	46.62	54.00	-7.38	3.05	3	V	267	2.36	-
PK	11.5695G	60.72	74.00	-13.28	3.05	3	V	267	2.36	-

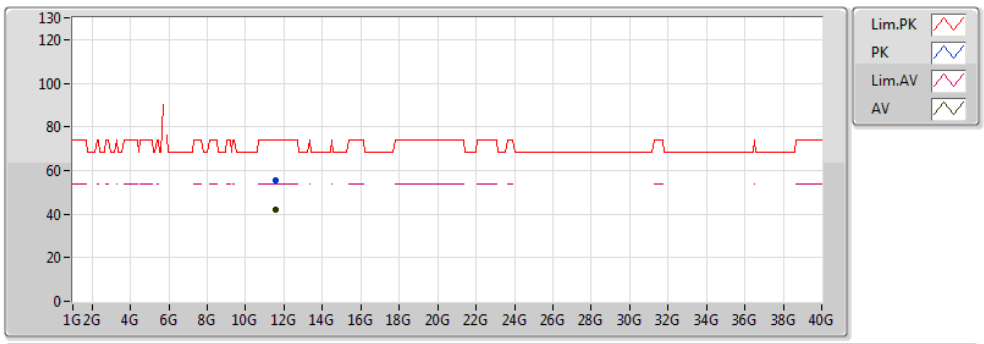
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5825MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.64936G	45.10	54.00	-8.90	3.03	3	V	297	2.34	-
PK	11.65138G	58.65	74.00	-15.35	3.03	3	V	297	2.34	-

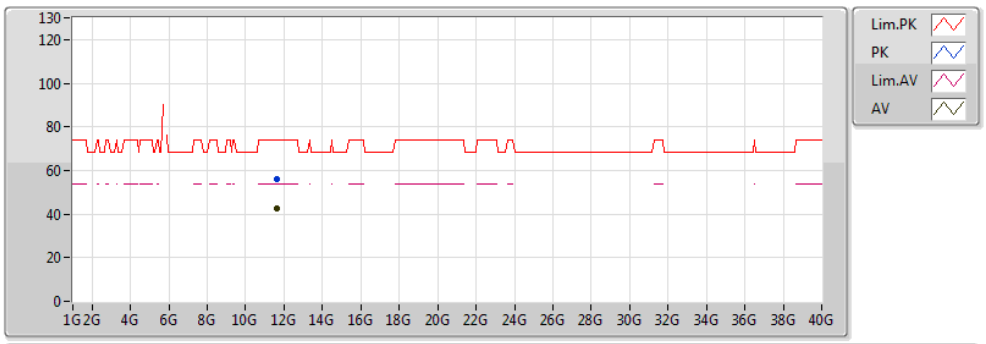
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5785MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.57358G	42.12	54.00	-11.88	3.05	3	H	252	2.44	-
PK	11.56698G	55.57	74.00	-18.43	3.06	3	H	252	2.44	-

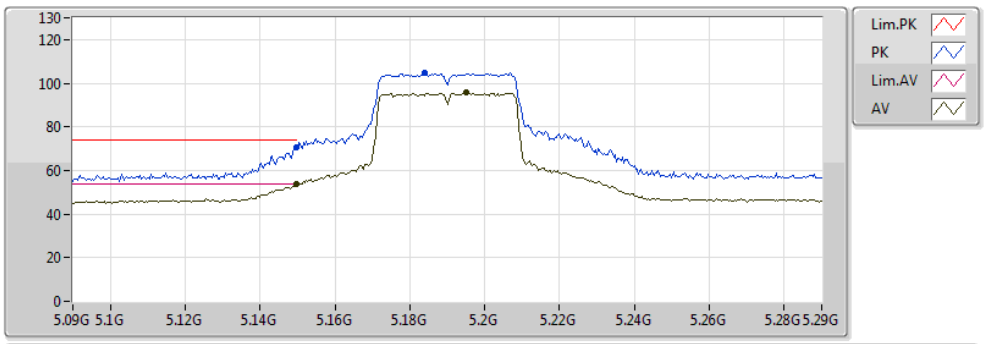
RE TX above 1GHz;Band:5.8G;VHT20;BWch:20MHz;Nss:1,(M0);Nant:1;Ch:5825MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.64642G	42.63	54.00	-11.37	3.03	3	H	240	2.60	-
PK	11.64996G	55.98	74.00	-18.02	3.03	3	H	240	2.60	-

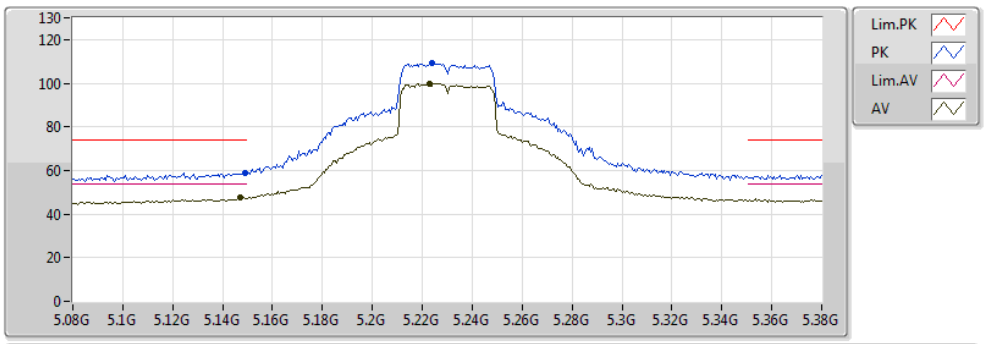
RE TX above 1GHz;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5190MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting:9
04-N-2-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1496G	53.71	54.00	-0.29	-7.90	3	V	173	1.12	-
AV	5.1952G	95.55	Inf	-Inf	-7.75	3	V	173	1.12	-
PK	5.1496G	70.56	74.00	-3.44	-7.90	3	V	173	1.12	-
PK	5.184G	104.67	Inf	-Inf	-7.79	3	V	173	1.12	-

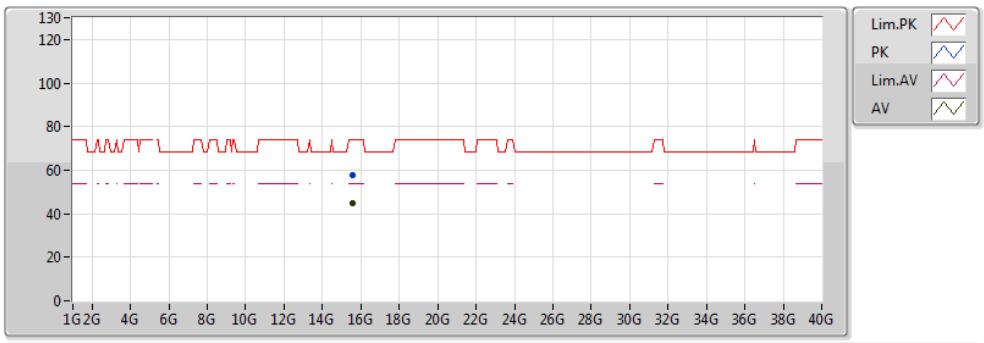
RE TX above 1GHz;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5230MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 19
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1472G	47.65	54.00	-6.35	-7.90	3	V	179	1.05	-
AV	5.2228G	99.95	Inf	-Inf	-7.72	3	V	179	1.05	-
PK	5.149G	59.11	74.00	-14.89	-7.90	3	V	179	1.05	-
PK	5.224G	109.09	Inf	-Inf	-7.72	3	V	179	1.05	-

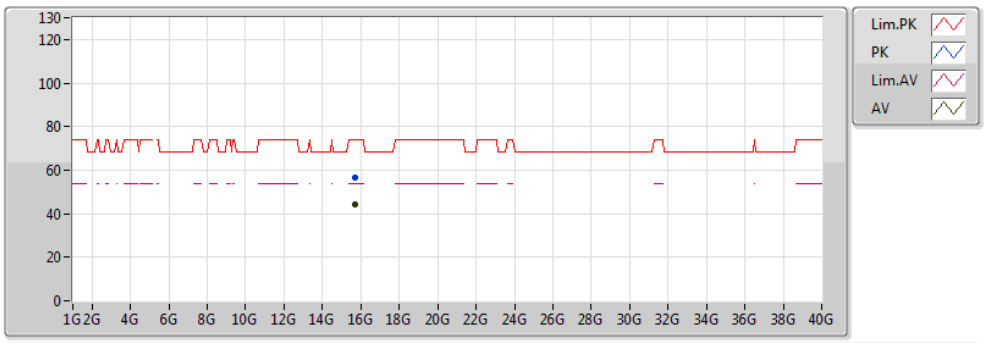
RE TX above 1GHz;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5190MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 9
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.5684G	45.06	54.00	-8.94	4.15	3	V	152	2.29	-
PK	15.5669G	57.55	74.00	-16.45	4.16	3	V	152	2.29	-

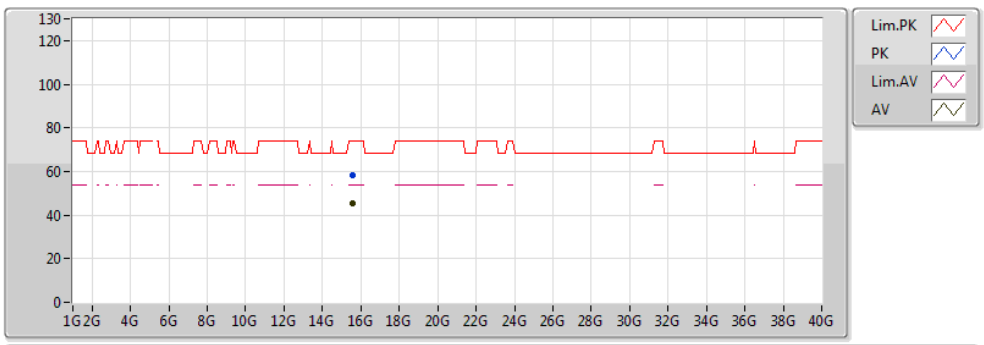
RE TX above 1GHz;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5230MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 19
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.68568G	44.18	54.00	-9.82	4.06	3	V	329	2.62	-
PK	15.6865G	56.41	74.00	-17.59	4.06	3	V	329	2.62	-

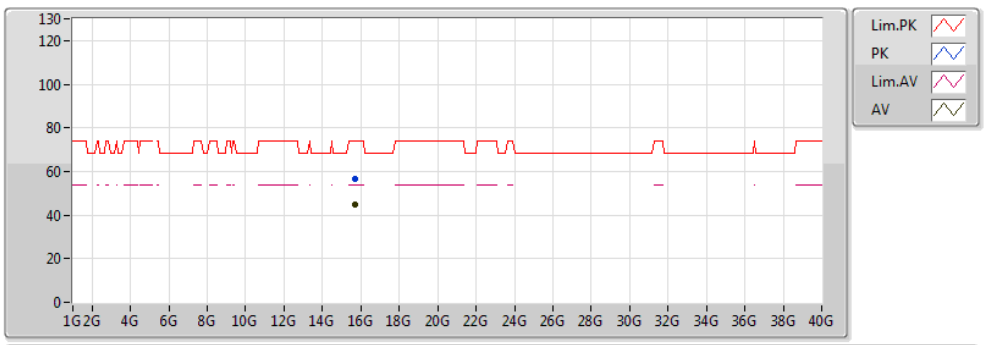
RE TX above 1GHz;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5190MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 9
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.56594G	45.47	54.00	-8.53	4.16	3	H	211	1.93	-
PK	15.57036G	58.01	74.00	-15.99	4.15	3	H	358	2.04	-

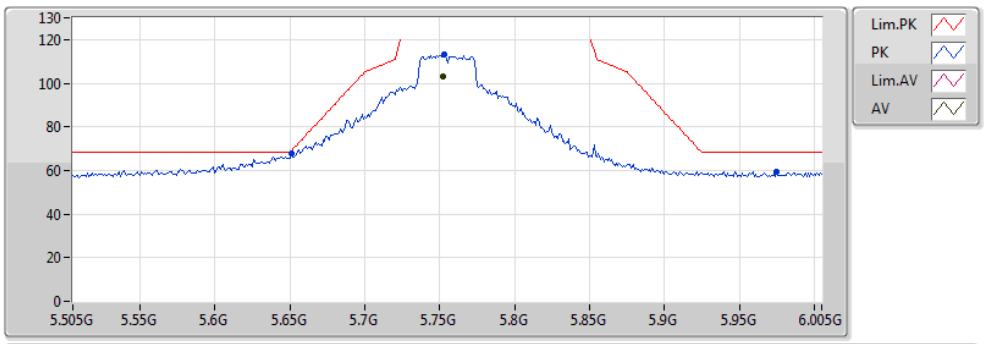
RE TX above 1GHz;Band:5.2G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5230MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 19
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.68752G	44.66	54.00	-9.34	4.06	3	H	272	1.77	-
PK	15.68744G	56.56	74.00	-17.44	4.06	3	H	272	1.77	-

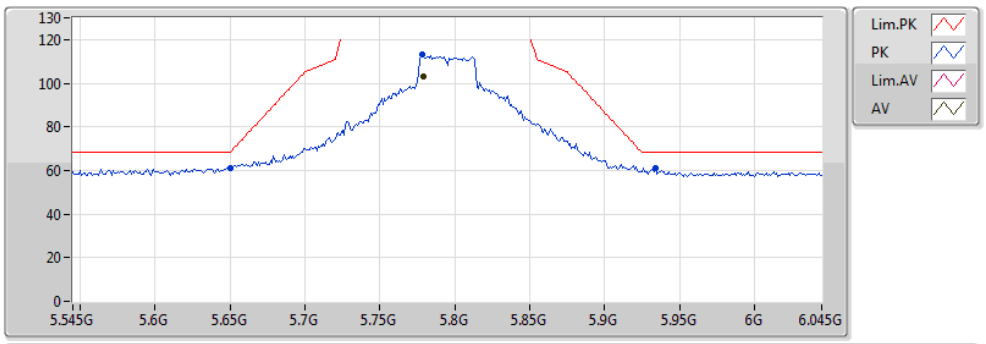
RE TX above 1GHz;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5755MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.752G	103.09	Inf	-Inf	-6.61	3	V	216	1.77	-
PK	5.651G	67.66	68.94	-1.28	-6.68	3	V	216	1.77	-
PK	5.753G	113.29	Inf	-Inf	-6.61	3	V	216	1.77	-
PK	5.975G	59.55	68.20	-8.65	-5.66	3	V	216	1.77	-

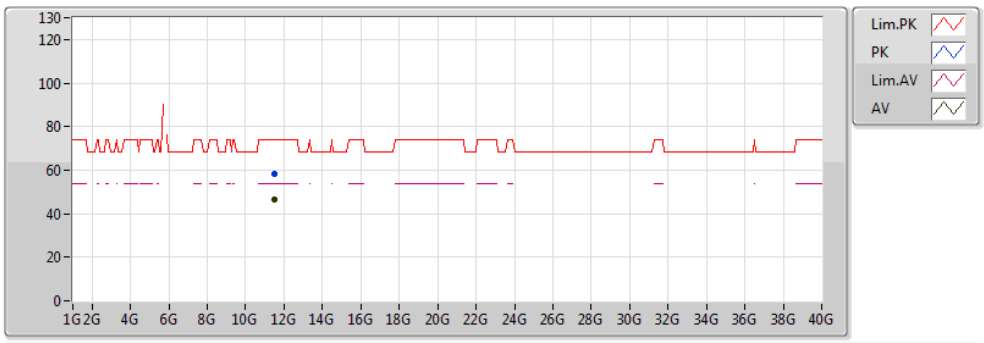
RE TX above 1GHz;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5795MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.779G	103.29	Inf	-Inf	-6.59	3	V	231	1.96	-
PK	5.65G	61.22	68.20	-6.98	-6.69	3	V	231	1.96	-
PK	5.778G	113.26	Inf	-Inf	-6.60	3	V	231	1.96	-
PK	5.934G	61.34	68.20	-6.86	-5.88	3	V	231	1.96	-

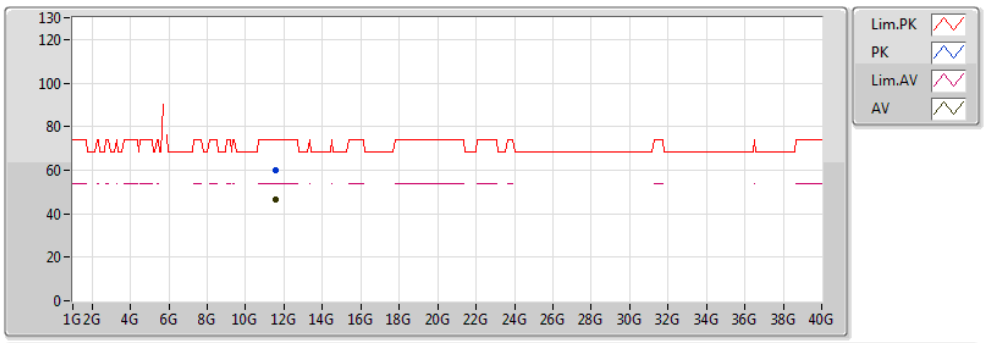
RE TX above 1GHz;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5755MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.50986G	46.32	54.00	-7.68	3.08	3	V	263	2.36	-
PK	11.50964G	58.32	74.00	-15.68	3.08	3	V	263	2.36	-

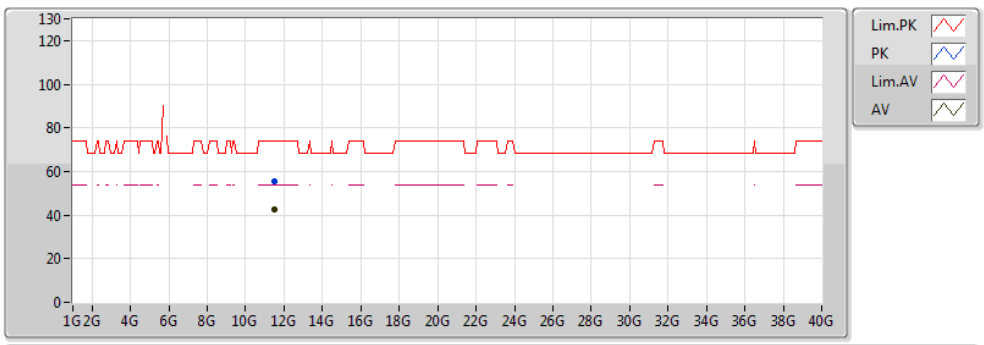
RE TX above 1GHz;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5795MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.58996G	46.75	54.00	-7.25	3.05	3	V	269	2.39	-
PK	11.59102G	59.75	74.00	-14.25	3.05	3	V	269	2.39	-

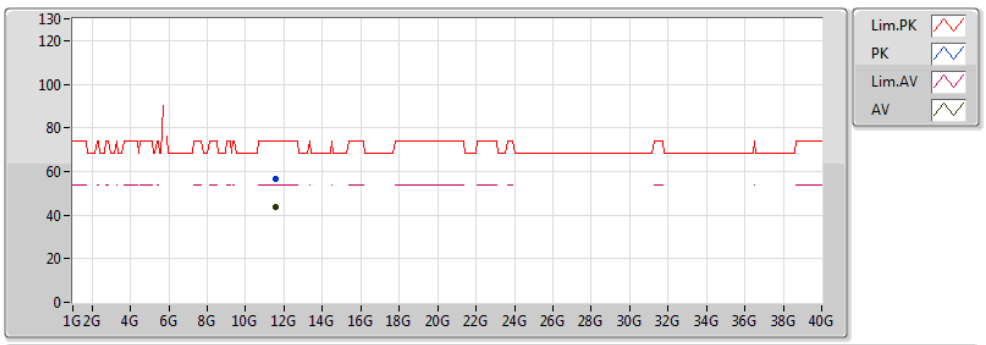
RE TX above 1GHz;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5755MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.50798G	42.64	54.00	-11.36	3.08	3	H	78	2.72	-
PK	11.50868G	55.63	74.00	-18.37	3.08	3	H	78	2.72	-

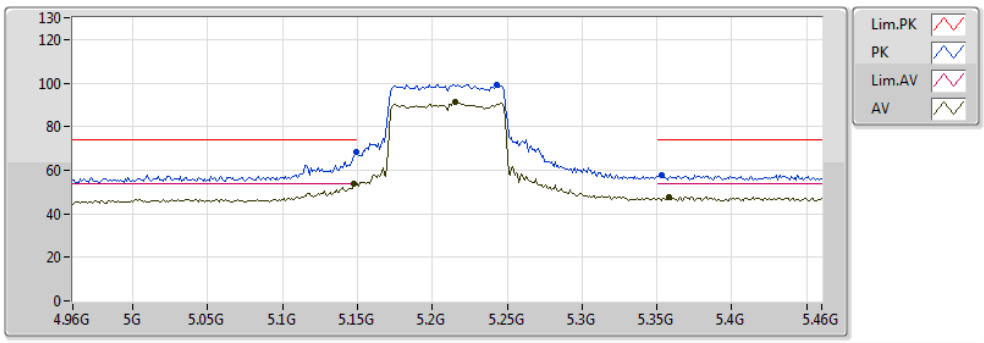
RE TX above 1GHz;Band:5.8G;VHT40;BWch:40MHz;Nss:1,(M0);Nant:1;Ch:5795MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 43
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.59024G	43.61	54.00	-10.39	3.05	3	H	257	2.67	-
PK	11.58596G	56.33	74.00	-17.67	3.05	3	H	257	2.67	-

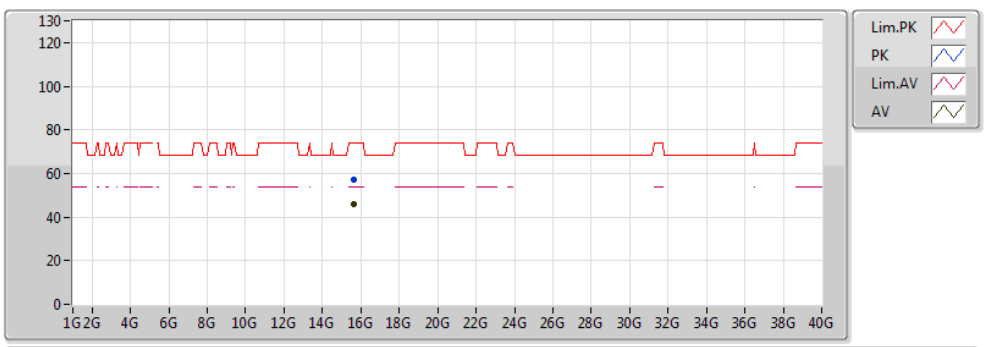
RE TX above 1GHz;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5210MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting:3
04-N-2-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.148G	53.78	54.00	-0.22	-7.90	3	V	171	1.14	-
AV	5.215G	91.06	Inf	-Inf	-7.73	3	V	171	1.14	-
AV	5.358G	47.89	54.00	-6.11	-7.65	3	V	171	1.14	-
PK	5.149G	68.36	74.00	-5.64	-7.90	3	V	171	1.14	-
PK	5.243G	99.45	Inf	-Inf	-7.71	3	V	171	1.14	-
PK	5.353G	57.66	74.00	-16.34	-7.65	3	V	171	1.14	-

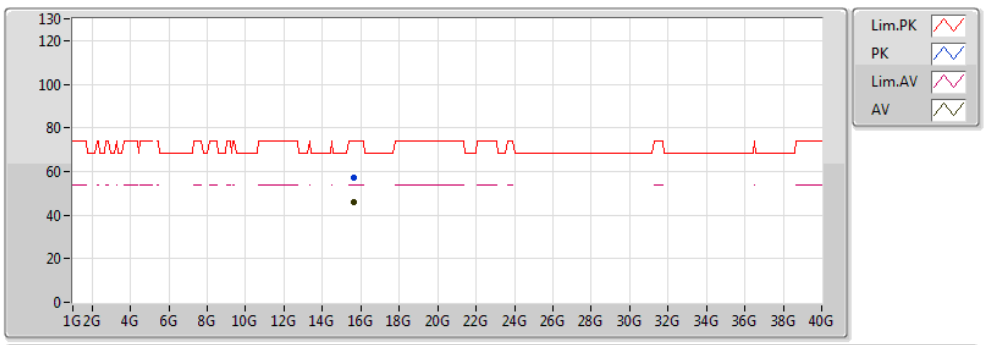
RE TX above 1GHz;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5210MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 3
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.6273G	46.00	54.00	-8.00	4.11	3	V	246	1.95	-
PK	15.62984G	57.16	74.00	-16.84	4.10	3	V	246	1.95	-

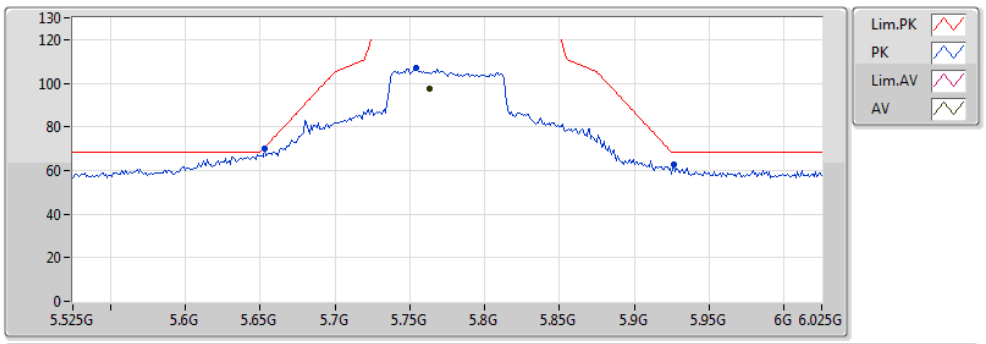
RE TX above 1GHz;Band:5.2G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5210MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 3
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.62776G	46.01	54.00	-7.99	4.11	3	H	91	2.34	-
PK	15.63418G	57.07	74.00	-16.93	4.10	3	H	91	2.34	-

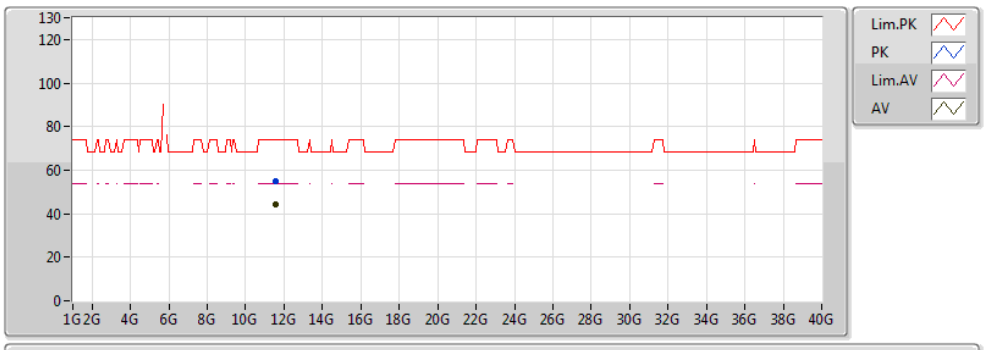
RE TX above 1GHz;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5775MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting:30
04-N-2-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.763G	97.29	Inf	-Inf	-6.61	3	V	226	1.82	-
PK	5.653G	70.14	70.42	-0.28	-6.68	3	V	226	1.82	-
PK	5.754G	106.92	Inf	-Inf	-6.61	3	V	226	1.82	-
PK	5.926G	62.69	68.20	-5.51	-5.92	3	V	226	1.82	-

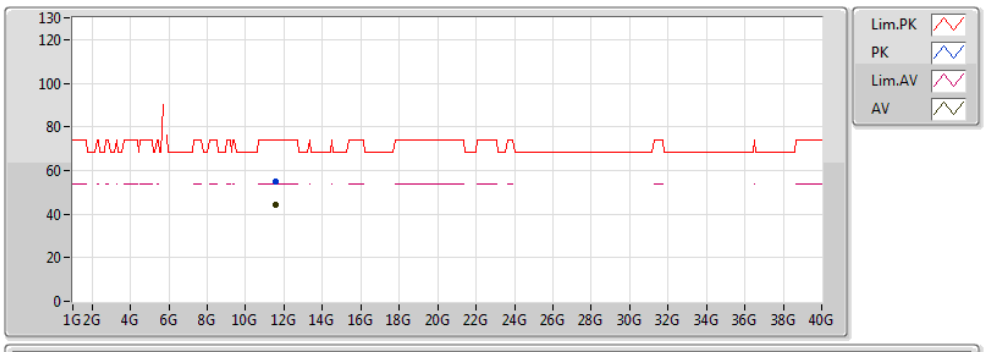
RE TX above 1GHz;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5775MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 30
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.55084G	44.38	54.00	-9.62	3.06	3	V	304	2.88	-
PK	11.5504G	55.13	74.00	-18.87	3.06	3	V	304	2.88	-

RE TX above 1GHz;Band:5.8G;VHT80;BWch:80MHz;Nss:1,(M0);Nant:1;Ch:5775MHz;TX



20161213
EUT Z_1TX_Dipole Non-TXBF
Setting 30
04-W-3-10 (ATT20)-FSP

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.54678G	44.32	54.00	-9.68	3.06	3	H	134	2.47	-
PK	11.54768G	54.91	74.00	-19.09	3.06	3	H	134	2.47	-

Mode: 20 MHz / Ant. 3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9516	5199.9514	5199.9507	5199.9505
110.00	5199.9507	5199.9499	5199.9496	5199.9490
93.50	5199.9497	5199.9495	5199.9491	5199.9482
Max. Deviation (MHz)	0.0503	0.0505	0.0509	0.0518
Max. Deviation (ppm)	9.67	9.71	9.79	9.96
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9524	5199.9519	5199.9518	5199.9516
10	5199.9515	5199.9511	5199.9510	5199.9502
20	5199.9507	5199.9499	5199.9493	5199.9487
30	5199.9345	5199.9342	5199.9334	5199.9333
40	5199.9336	5199.9330	5199.9328	5199.9322
Max. Deviation (MHz)	0.0668	0.0677	0.0686	0.0694
Max. Deviation (ppm)	12.85	13.02	13.19	13.35
Result	Pass			

Mode: 40 MHz / Ant. 3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9516	5189.9511	5189.9501	5189.9493
110.00	5189.9507	5189.9497	5189.9496	5189.9489
93.50	5189.9498	5189.9488	5189.9478	5189.9469
Max. Deviation (MHz)	0.0502	0.0512	0.0522	0.0531
Max. Deviation (ppm)	9.67	9.87	10.06	10.23
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9518	5189.9512	5189.9507	5189.9497
10	5189.9517	5189.9510	5189.9505	5189.9495
20	5189.9507	5189.9504	5189.9502	5189.9492
30	5189.9345	5189.9342	5189.9337	5189.9329
40	5189.9341	5189.9338	5189.9336	5189.9331
Max. Deviation (MHz)	0.0659	0.0662	0.0664	0.0671
Max. Deviation (ppm)	12.70	12.76	12.79	12.93
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9517	5754.9509	5754.9507	5754.9498
110.00	5754.9507	5754.9497	5754.9487	5754.9482
93.50	5754.9498	5754.9495	5754.9488	5754.9478
Max. Deviation (MHz)	0.0502	0.0505	0.0513	0.0522
Max. Deviation (ppm)	8.72	8.77	8.91	9.07
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9536	5754.9533	5754.9524	5754.9520
10	5754.9519	5754.9516	5754.9513	5754.9510
20	5754.9507	5754.9500	5754.9493	5754.9485
30	5754.9345	5754.9344	5754.9342	5754.9332
40	5754.9343	5754.9334	5754.9329	5754.9319
Max. Deviation (MHz)	0.0657	0.0666	0.0671	0.0681
Max. Deviation (ppm)	11.42	11.57	11.66	11.83
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9511	5784.9506	5784.9502	5784.9499
110.00	5784.9507	5784.9500	5784.9494	5784.9485
93.50	5784.9501	5784.9495	5784.9488	5784.9481
Max. Deviation (MHz)	0.0499	0.0505	0.0512	0.0519
Max. Deviation (ppm)	8.63	8.73	8.85	8.97
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9537	5784.9530	5784.9524	5784.9514
10	5784.9518	5784.9510	5784.9506	5784.9498
20	5784.9507	5784.9497	5784.9490	5784.9484
30	5784.9345	5784.9338	5784.9333	5784.9329
40	5784.9343	5784.9339	5784.9331	5784.9326
Max. Deviation (MHz)	0.0670	0.0679	0.0680	0.0685
Max. Deviation (ppm)	11.58	11.74	11.75	11.84
Result	Pass			

Mode: 80 MHz / Ant. 3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9517	5209.9507	5209.9506	5209.9496
110.00	5209.9507	5209.9502	5209.9493	5209.9489
93.50	5209.9498	5209.9494	5209.9487	5209.9484
Max. Deviation (MHz)	0.0502	0.0506	0.0513	0.0516
Max. Deviation (ppm)	9.64	9.71	9.85	9.90
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9516	5209.9513	5209.9503	5209.9500
10	5209.9512	5209.9508	5209.9502	5209.9500
20	5209.9507	5209.9503	5209.9498	5209.9495
30	5209.9345	5209.9340	5209.9332	5209.9325
40	5209.9336	5209.9328	5209.9322	5209.9315
Max. Deviation (MHz)	0.0664	0.0672	0.0678	0.0685
Max. Deviation (ppm)	12.74	12.90	13.01	13.15
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9516	5774.9515	5774.9508	5774.9504
110.00	5774.9507	5774.9497	5774.9489	5774.9486
93.50	5774.9500	5774.9499	5774.9493	5774.9485
Max. Deviation (MHz)	0.0500	0.0503	0.0511	0.0515
Max. Deviation (ppm)	8.66	8.71	8.85	8.92
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9532	5774.9529	5774.9522	5774.9519
10	5774.9516	5774.9513	5774.9506	5774.9503
20	5774.9507	5774.9498	5774.9493	5774.9489
30	5774.9345	5774.9340	5774.9338	5774.9334
40	5774.9331	5774.9324	5774.9320	5774.9317
Max. Deviation (MHz)	0.0669	0.0676	0.0680	0.0683
Max. Deviation (ppm)	11.58	11.71	11.77	11.83
Result	Pass			