



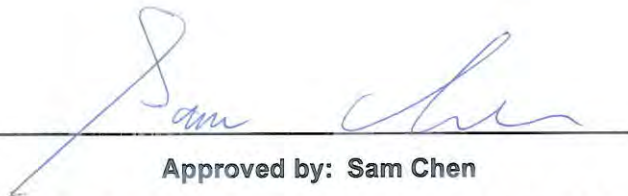
FCC RADIO TEST REPORT

FCC ID : Z8H89FT0016
Equipment : 5GHz Force 300-16
Brand Name : Cambium Networks
Model Name : 5GHz Force 300-16
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL
60008, USA
Manufacturer : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL
60008, USA
Standard : 47 CFR FCC Part 15.407

The product was received on Mar. 15, 2018, and testing was started from Mar. 15, 2018 and completed on May 08, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-
Note: From Sporton Project No.: 7O2407-03				

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Viola Huang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5690	106-138 [3]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX

Note:

- ♦ VHT20, 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.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	Cambium	ePMP force 300-16	Printed Antenna	I-PEX	6	-
2	1	Cambium	ePMP force 300-16	Printed Antenna	custom	-	16
	2	Cambium	ePMP force 300-16	Printed Antenna	custom	-	16
3	1	Cambium	ePMP force 300-16	integral antenna	custom	-	2
	2	Cambium	ePMP force 300-16	integral antenna	custom	-	2

Note: The above information was declared by manufacturer.

Note: The EUT has three antennas.

For 2.4GHz function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

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

5GHz can equip Ant.2 or Ant.3. Both Ant.2 and Ant.3 has been tested and recorded in the test report.

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle**For Ant. 2**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20	0.987	0.057	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80	0.942	0.259	5.007m	300

For Ant. 3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20	0.987	0.057	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT80	0.942	0.259	5.007m	300

Note:

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

**1.1.4 EUT Operational Condition**

EUT Power Type	From PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Weather Band	☒	With 5600~5650MHz	☐	Without 5600~5650MHz
Function	☐	Outdoor P2M	☐	Indoor P2M
	☒	Fixed P2P	☐	Client
TPC Function	☒	With TPC	☐	Without TPC
Test Software Version	QCARCT Version: 3.0.187.0			

Note: The above information was declared by manufacturer.

1.1.5 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FR7O2407-04AB

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

Modifications	Performance Checking
1. Adding Band 2 and Band 3 (5250~5350 MHz, 5470~5725 MHz) in 20/80MHz.	1. Emission Bandwidth 2. Maximum Conducted Output Power 3. Peak Power Spectral Density 4. Unwanted Emissions (Conducted)

Note: The other test results were based on original report: FR7O2407-04AB.



1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li & Stim Sung & Lance Wu & Cola Fan	20~22°C / 52~54%	Mar. 15, 2018 ~ May 08, 2019
Radiated	03CH01-CB	Cola Fan, RJ Huang, Jeff Wu	24.5°C / 50%	Jul. 13, 2018 ~ Nov. 30, 2018

Test site Designation No. TW0006 with FCC

Test site registered number IC 4086B 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
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%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Ant. 2

Mode	PowerSetting
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	10
5300MHz	10
5320MHz	8.5
5500MHz	10
5580MHz	10.5
5700MHz	10.5
5720MHz Straddle 5.47-5.725GHz	10.5
5720MHz Straddle 5.725-5.85GHz	10.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	8
5530MHz	9
5610MHz	9
5690MHz Straddle 5.47-5.725GHz	10
5690MHz Straddle 5.725-5.85GHz	10

**For Ant. 3**

Mode	PowerSetting
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	20.5
5580MHz	20.5
5700MHz	21
5720MHz Straddle 5.47-5.725GHz	20.5
5720MHz Straddle 5.725-5.85GHz	20.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	19.5
5530MHz	21
5610MHz	21
5690MHz Straddle 5.47-5.725GHz	21.5
5690MHz Straddle 5.725-5.85GHz	21.5

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Conducted measurement at transmit chains Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz_Ant. 2
2	WLAN 2.4GHz + WLAN 5GHz_Ant. 3
Refer to Sporton Test Report No.: FA7O2407-06 for Co-location RF Exposure Evaluation.	

Note 1: The EUT was powered by PoE, and the PoE was for measurement only, would not be marketed.

PoE information as below:

Support Unit	Brand	Model
PoE	PHIHONG	PSA15M-300(AP)



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

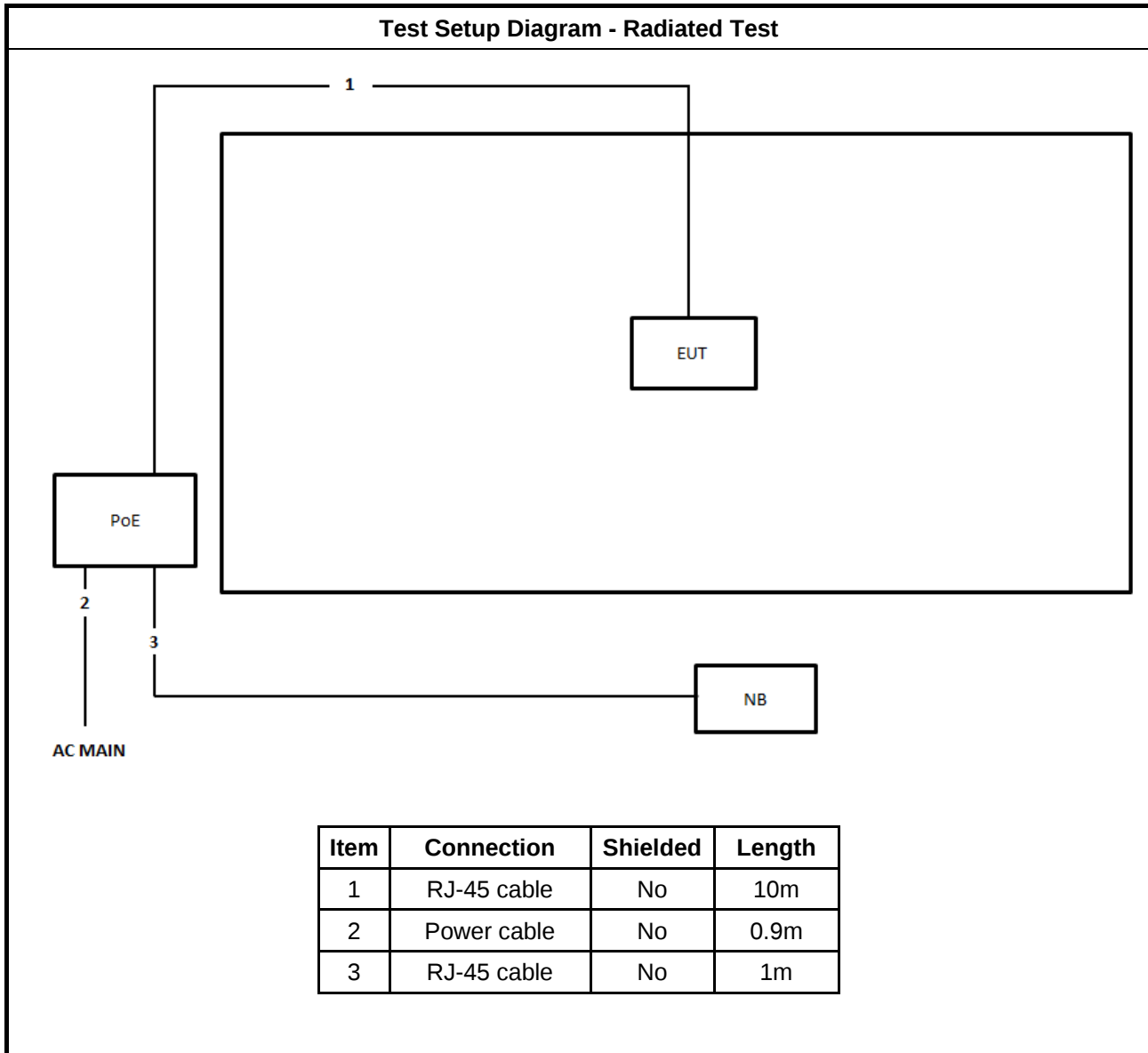
N/A

2.5 Support Equipment

For RF Conducted and Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	PHIHONG	PSA15M-300(AP)	N/A

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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 $\geq$ 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 $\geq$ 500kHz.

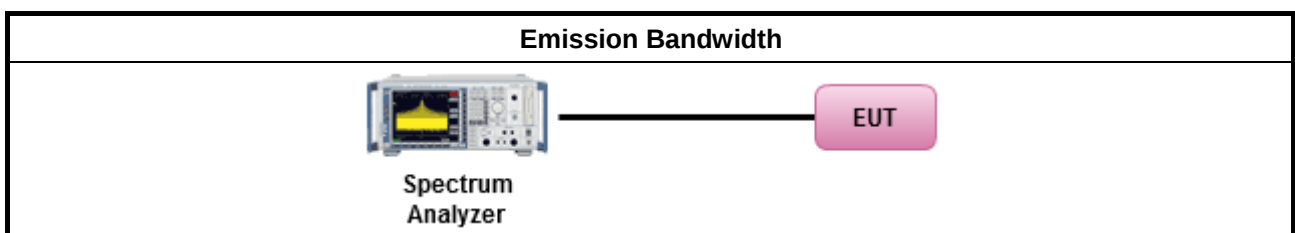
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup





3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 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.	

3.2.2 Measuring Instruments

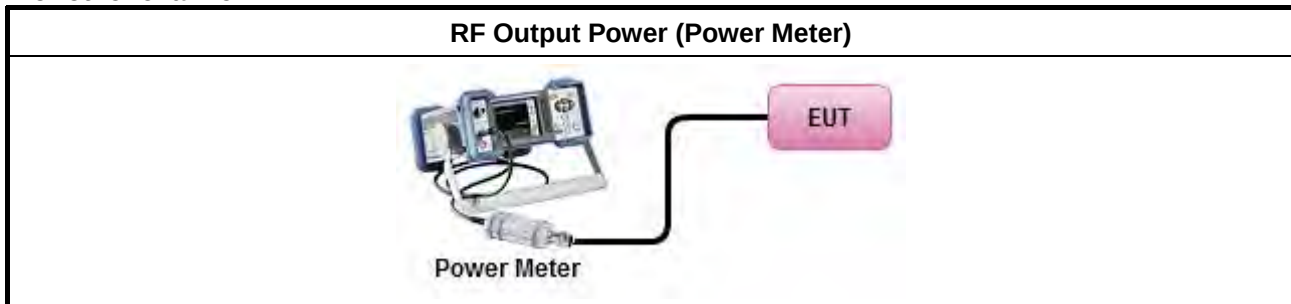
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

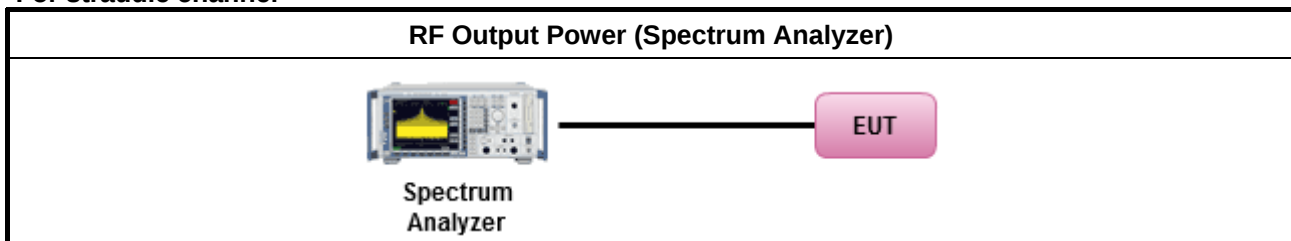
Test Method	
Maximum Conducted Output Power	
	Average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup

For other channel



For straddle channel



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 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 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.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐ 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.	

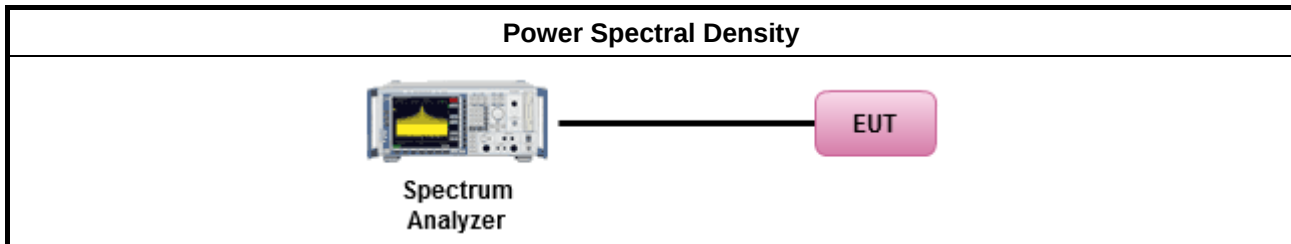
3.3.2 Measuring Instruments

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

3.3.3 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: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☐ 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).

3.4.2 Measuring Instruments

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

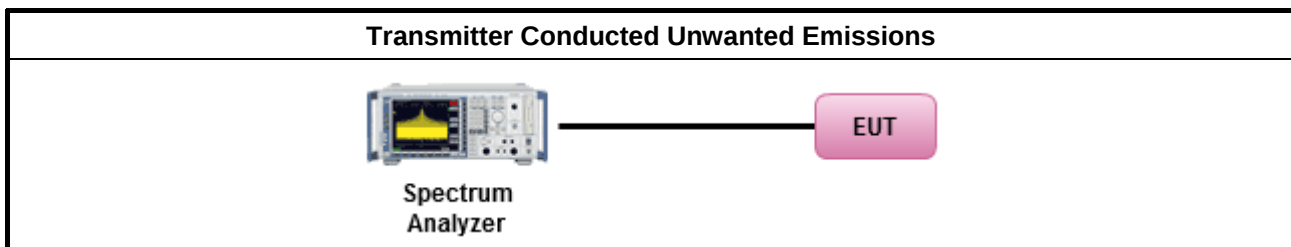
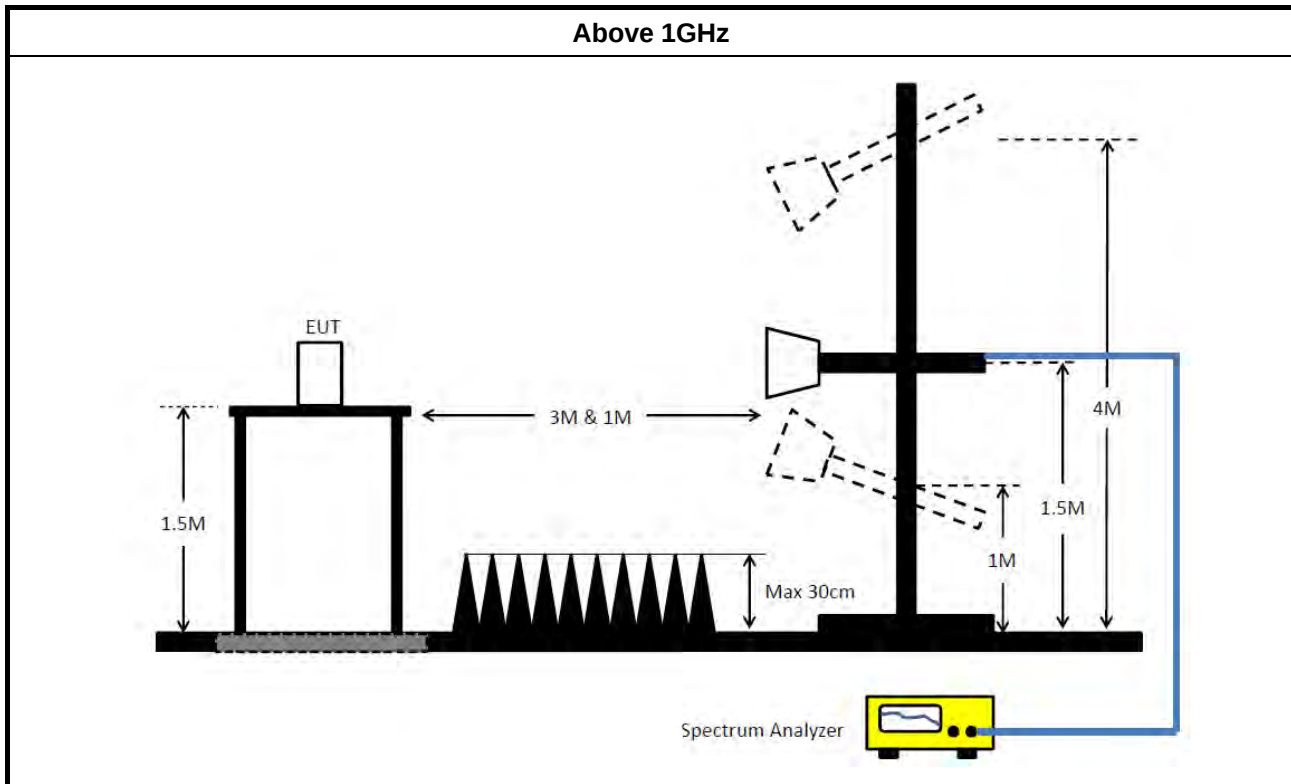
3.4.3 Test Procedures

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 G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 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.	



Test Method	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033, clause G)3).	
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jun. 22, 2018	Jun. 21, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

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

For Ant. 2
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	19.95M	17.641M	17M6D1D	19.85M	17.566M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.7M	75.762M	75M8D1D	83.1M	75.662M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	20.2M	17.616M	17M6D1D	14.97M	13.808M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.8M	76.062M	76M1D1D	76.5M	72.489M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	3.78M	3.898M	3M90D1D	3.76M	3.878M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.14M	4.418M	4M42D1D	3.14M	4.158M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

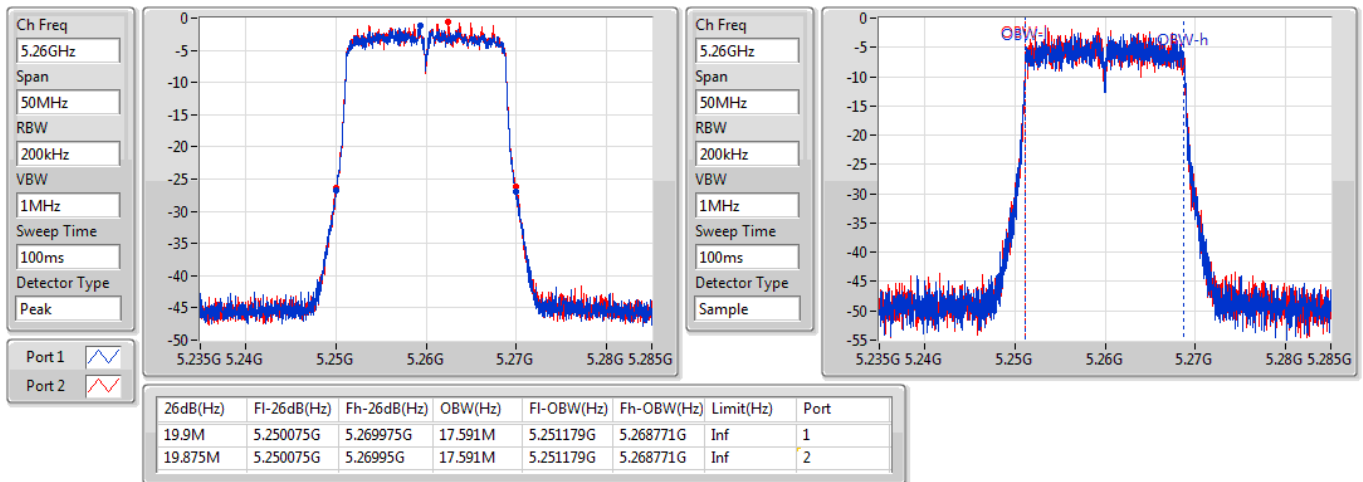
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	19.9M	17.591M	19.875M	17.591M
5300MHz	Pass	Inf	19.95M	17.591M	19.85M	17.591M
5320MHz	Pass	Inf	19.9M	17.566M	19.9M	17.641M
5500MHz	Pass	Inf	19.975M	17.566M	19.9M	17.591M
5580MHz	Pass	Inf	19.975M	17.616M	20.2M	17.591M
5700MHz	Pass	Inf	19.85M	17.591M	19.95M	17.591M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.97M	13.808M	15.015M	13.823M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	3.878M	3.76M	3.898M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	83.7M	75.762M	83.1M	75.662M
5530MHz	Pass	Inf	83.8M	76.062M	83.3M	75.862M
5610MHz	Pass	Inf	83.5M	75.762M	83.4M	75.762M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.8M	72.489M	76.5M	72.489M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.158M	3.14M	4.418M

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

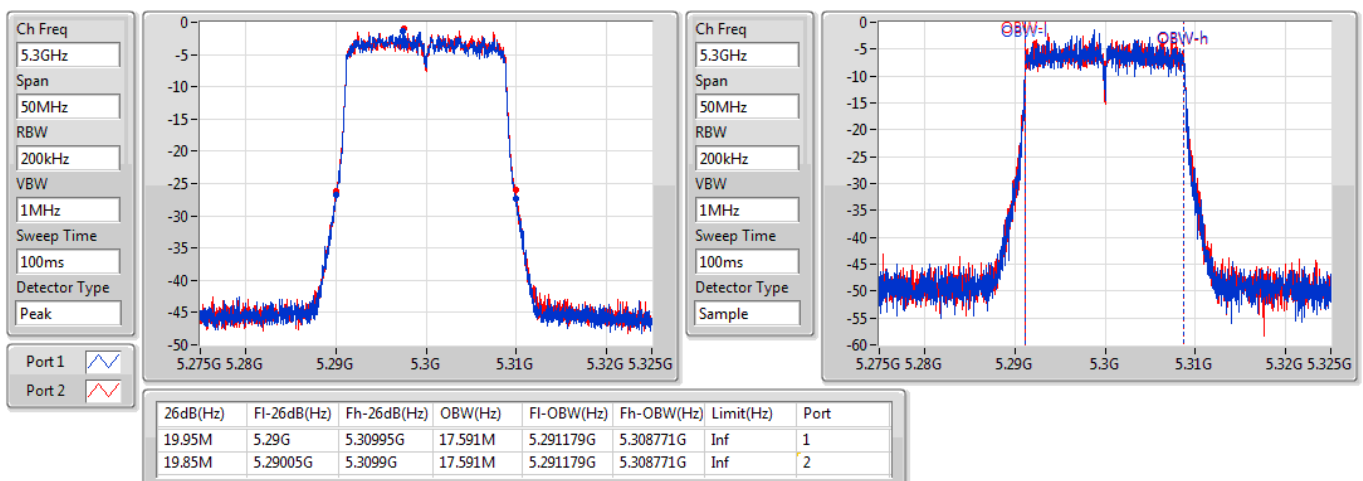
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

24/03/2018

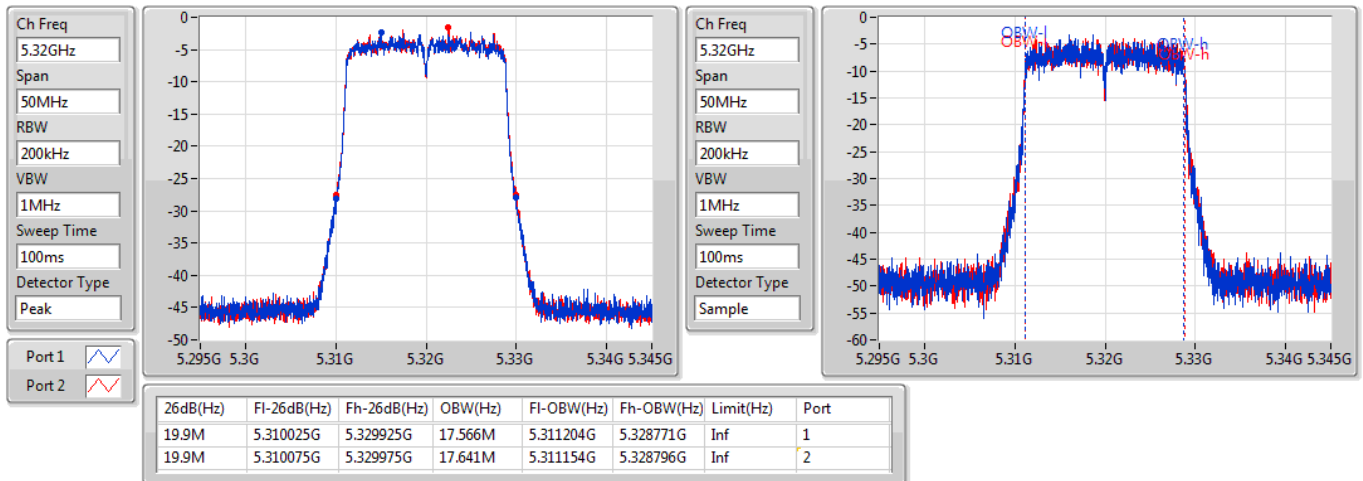

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

24/03/2018

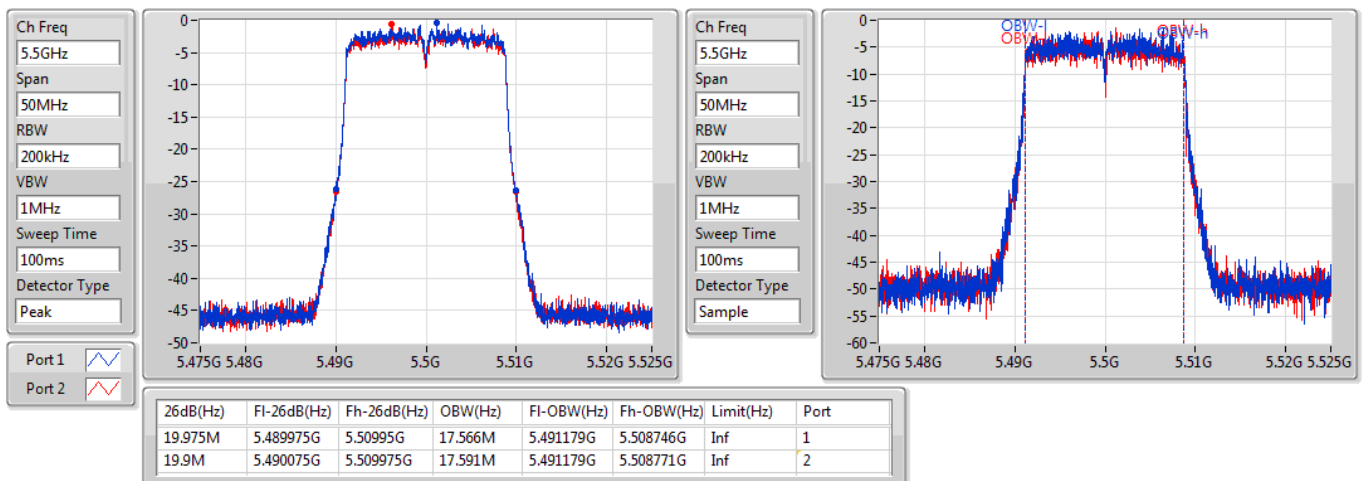


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5320MHz

24/03/2018

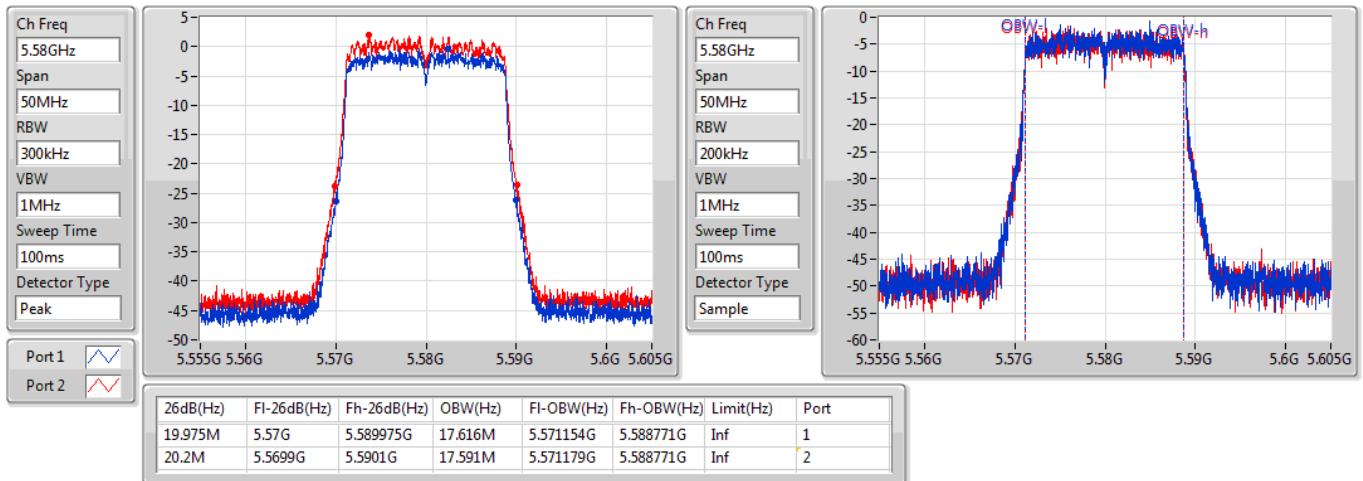

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5500MHz

24/03/2018

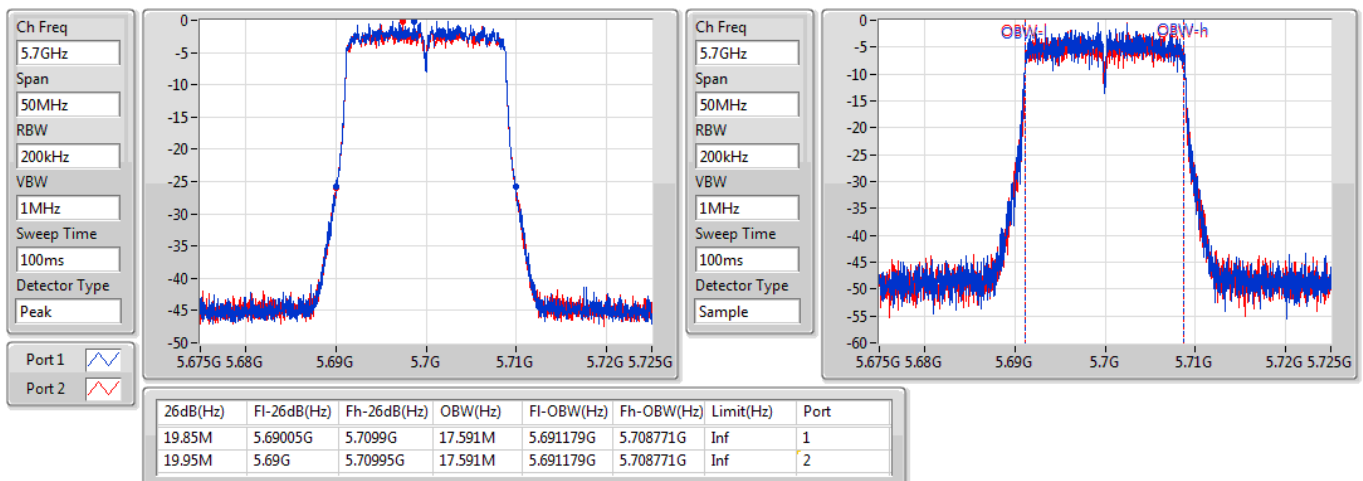


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5580MHz

24/03/2018

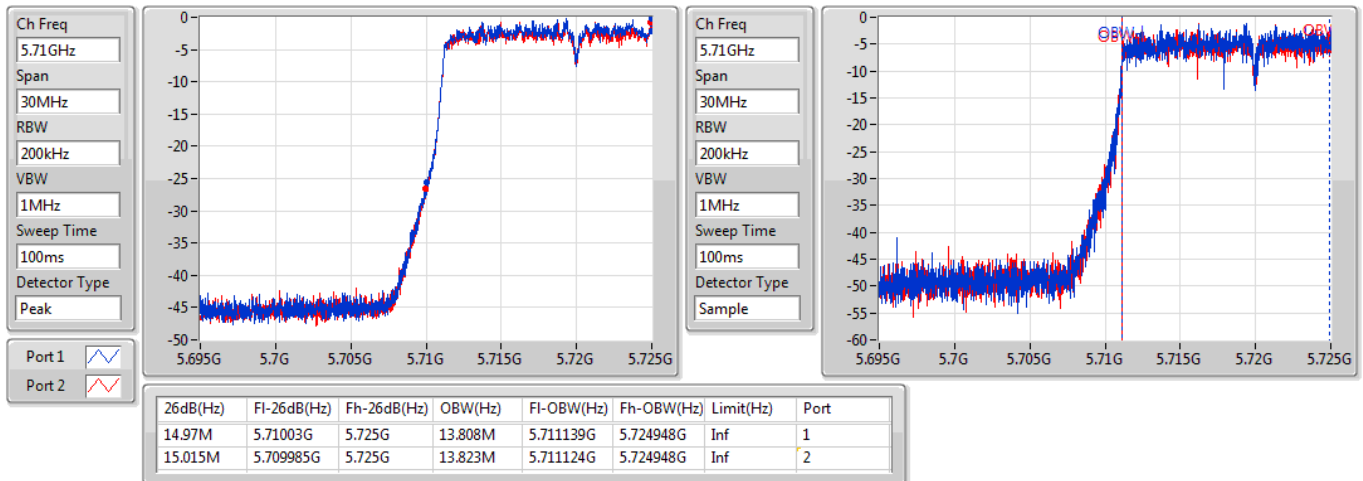

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5700MHz

24/03/2018

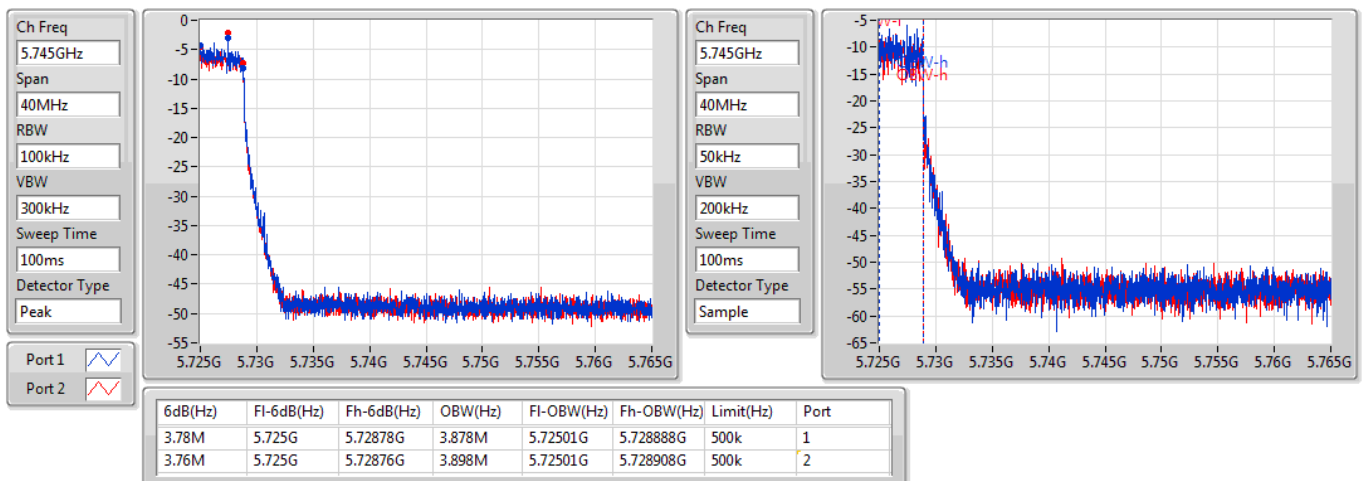


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

24/03/2018

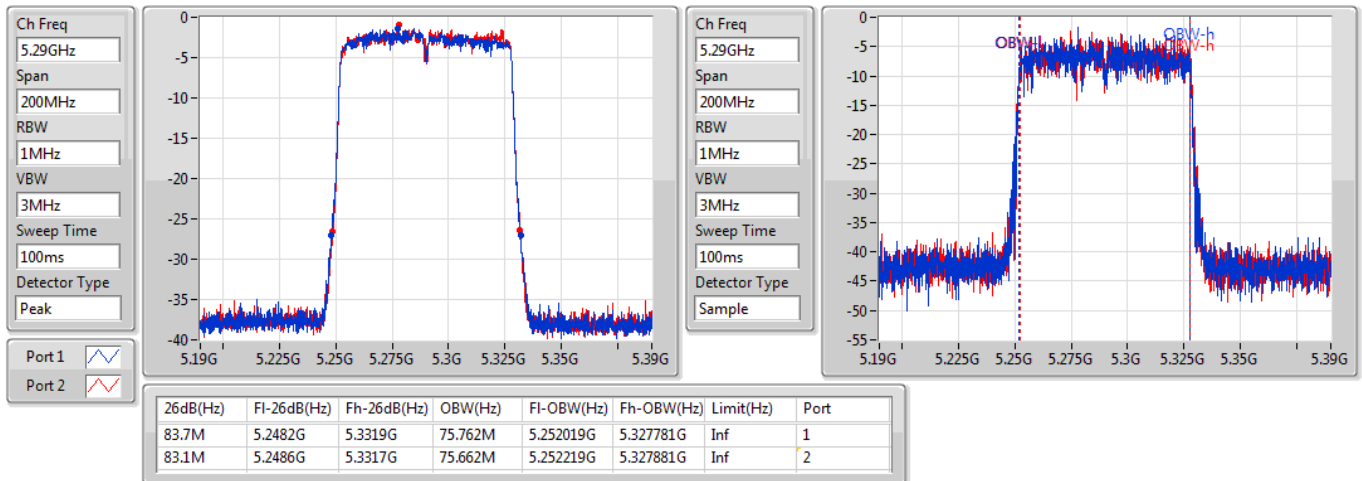

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

24/03/2018

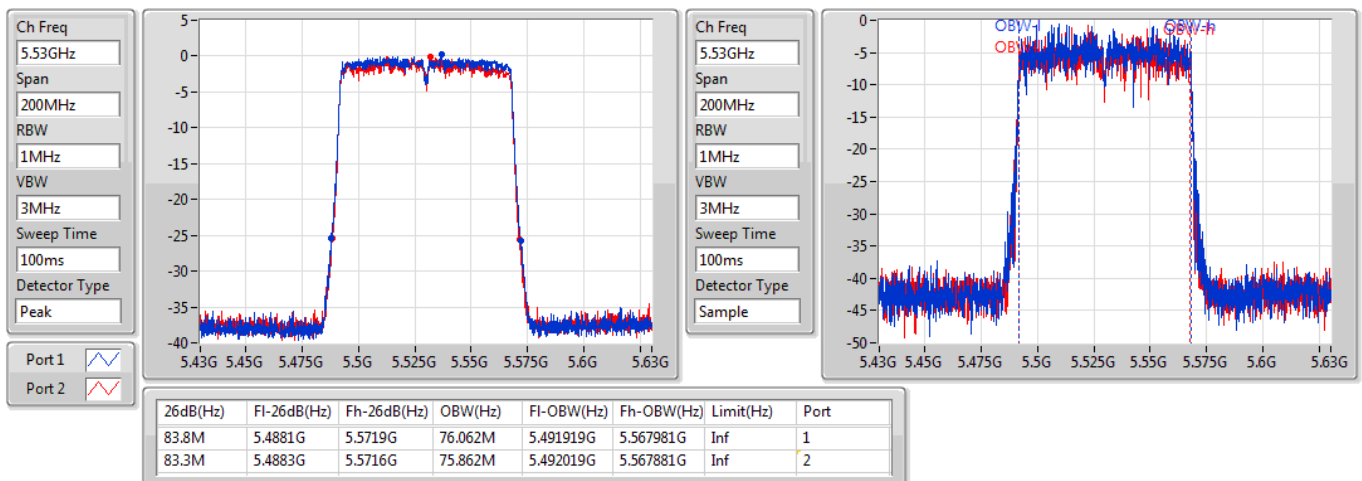


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

24/03/2018

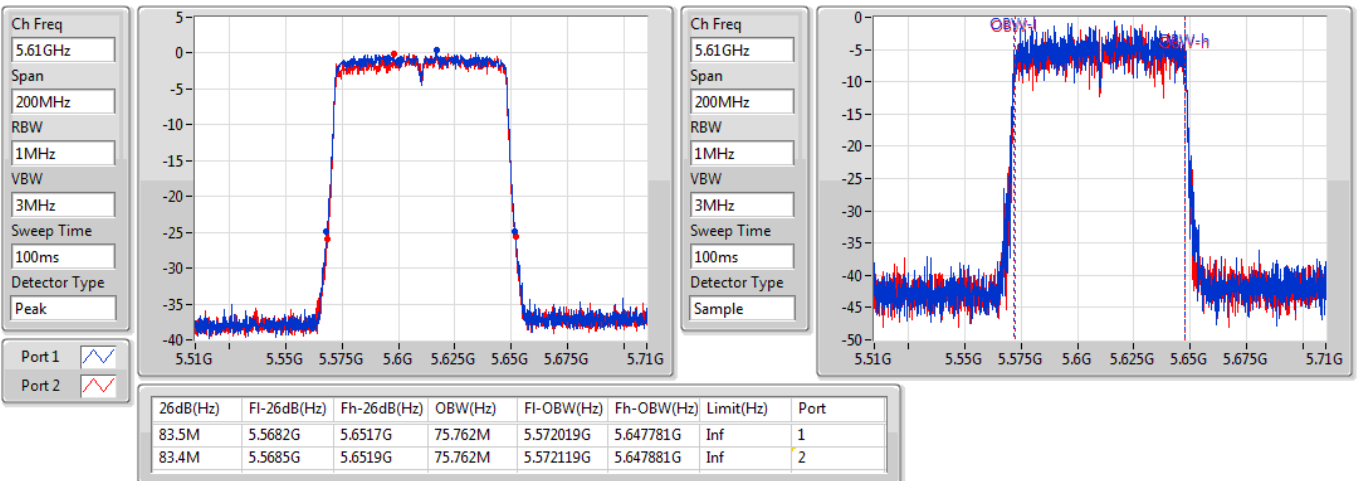

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5530MHz

24/03/2018

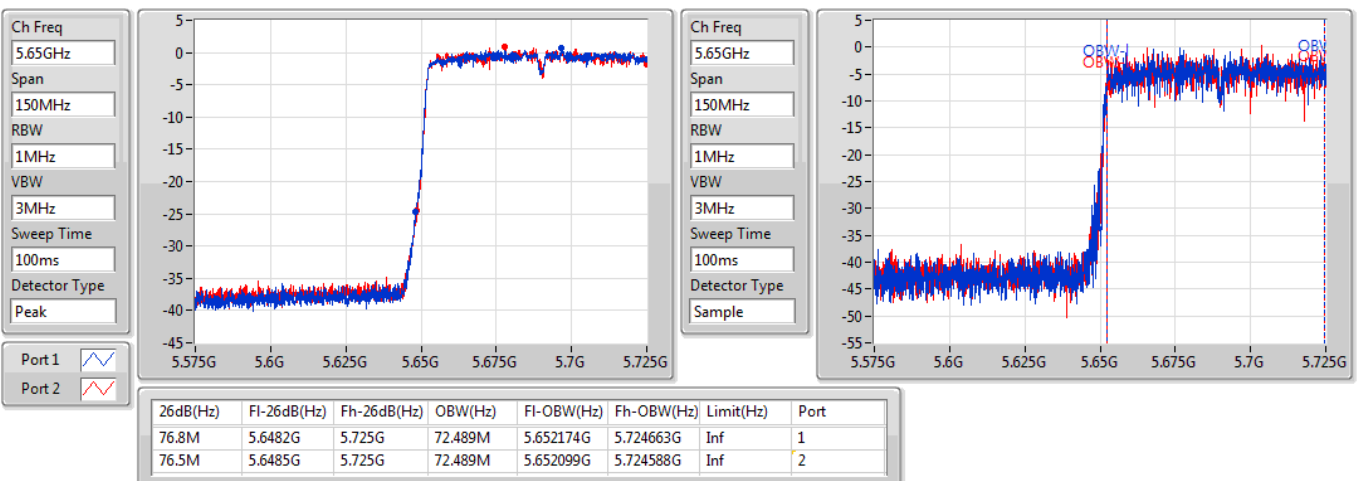


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5610MHz

24/03/2018


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

24/03/2018

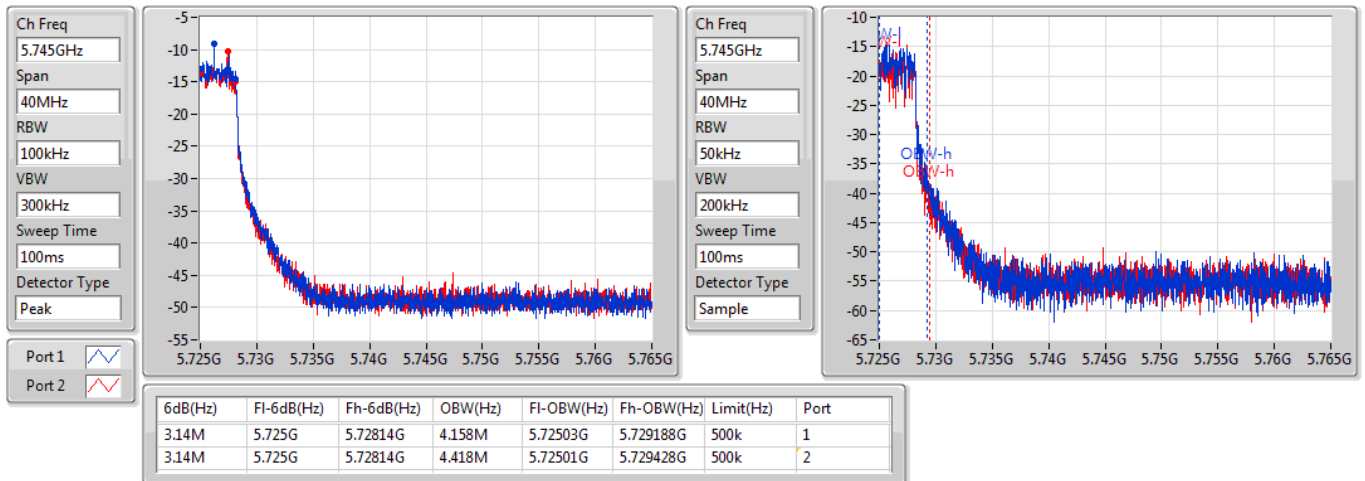


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

24/03/2018



**For Ant. 3
Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	20M	17.616M	17M6D1D	19.875M	17.591M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.3M	75.762M	75M8D1D	83M	75.662M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	20.4M	17.616M	17M6D1D	14.94M	13.793M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.6M	75.862M	75M9D1D	76.575M	72.564M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	3.78M	3.898M	3M90D1D	3.78M	3.898M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.14M	4.318M	4M32D1D	3.12M	4.098M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth;

Result

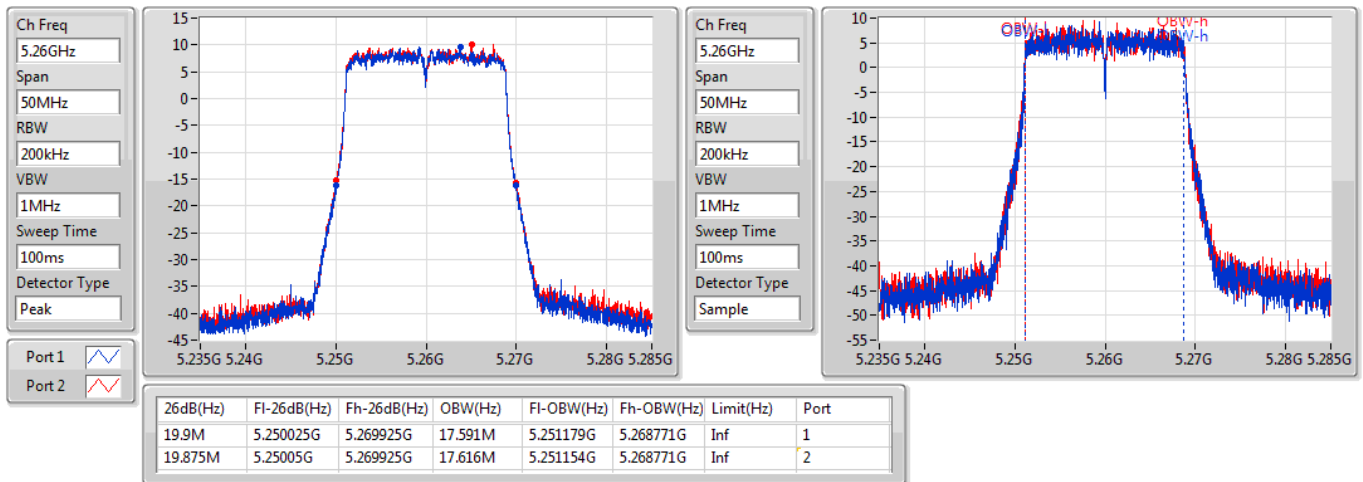
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	19.9M	17.591M	19.875M	17.616M
5300MHz	Pass	Inf	19.9M	17.591M	20M	17.616M
5320MHz	Pass	Inf	19.875M	17.591M	19.925M	17.616M
5500MHz	Pass	Inf	19.975M	17.591M	19.825M	17.616M
5580MHz	Pass	Inf	19.85M	17.591M	19.95M	17.616M
5700MHz	Pass	Inf	19.875M	17.616M	20.4M	17.591M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.94M	13.793M	15.015M	13.808M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	3.898M	3.78M	3.898M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	83.3M	75.662M	83M	75.762M
5530MHz	Pass	Inf	83.5M	75.862M	83.2M	75.762M
5610MHz	Pass	Inf	83.6M	75.762M	83.1M	75.662M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.725M	72.564M	76.575M	72.564M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	4.318M	3.12M	4.098M

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

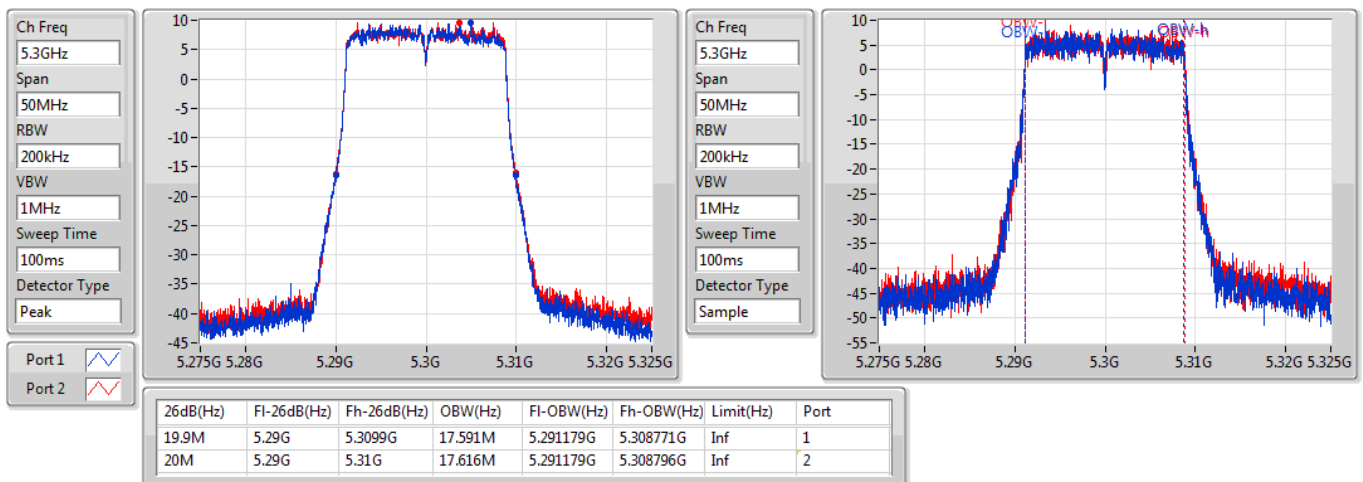
Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5260MHz

24/03/2018


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5300MHz

24/03/2018

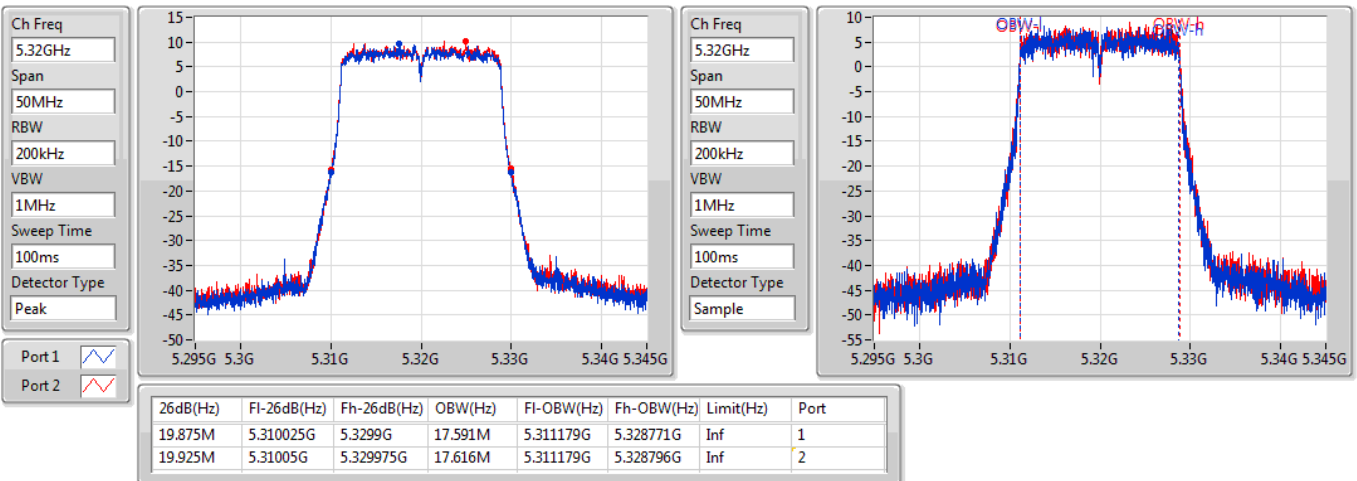


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5320MHz

24/03/2018

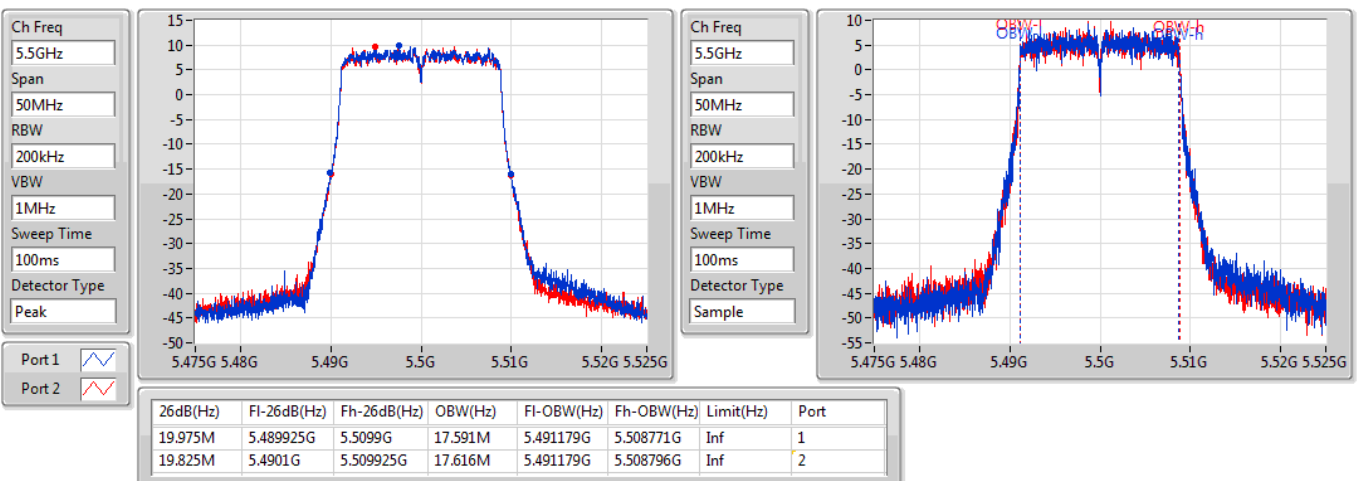


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5500MHz

24/03/2018

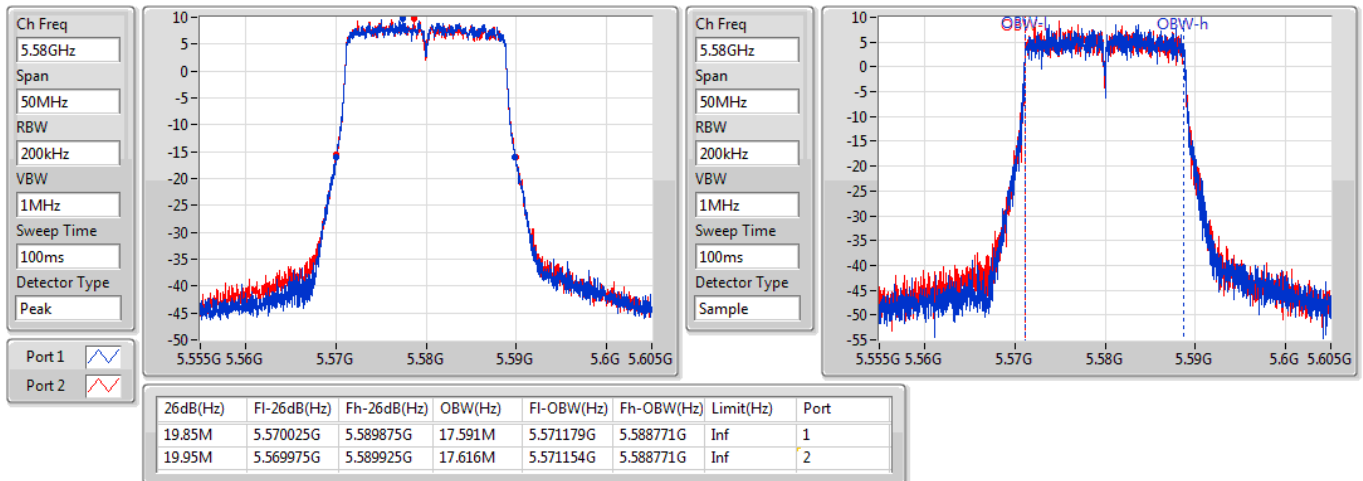


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

5580MHz

24/03/2018

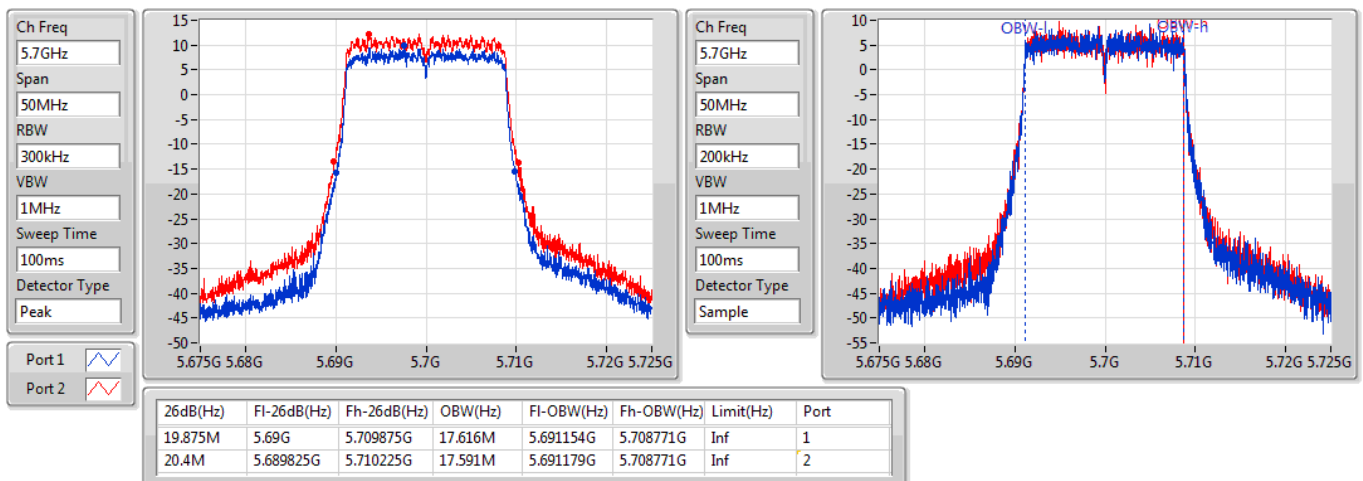


802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

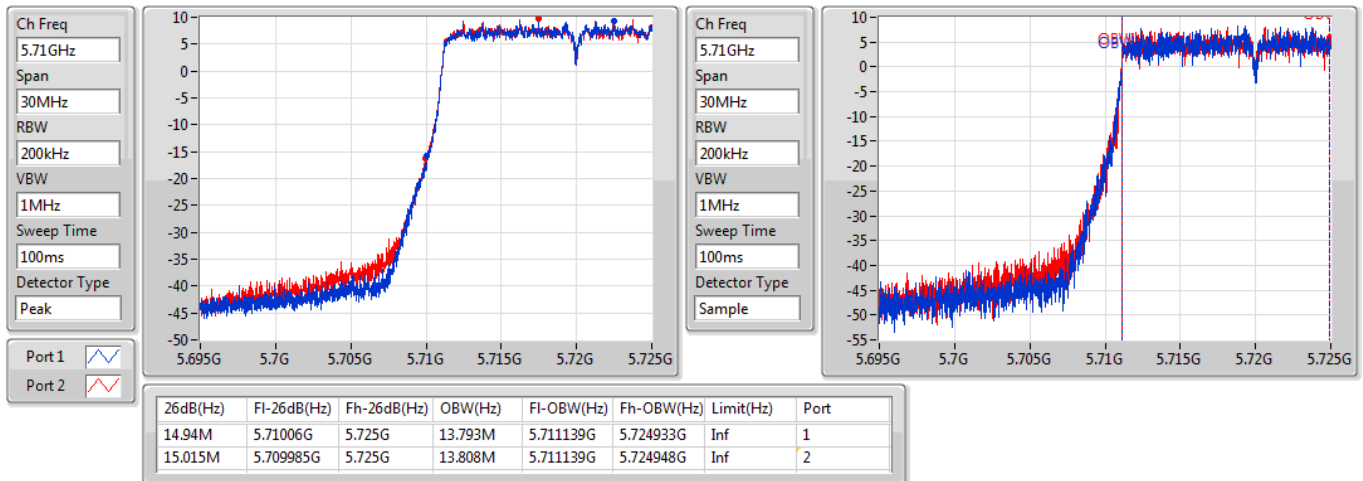
5700MHz

24/03/2018

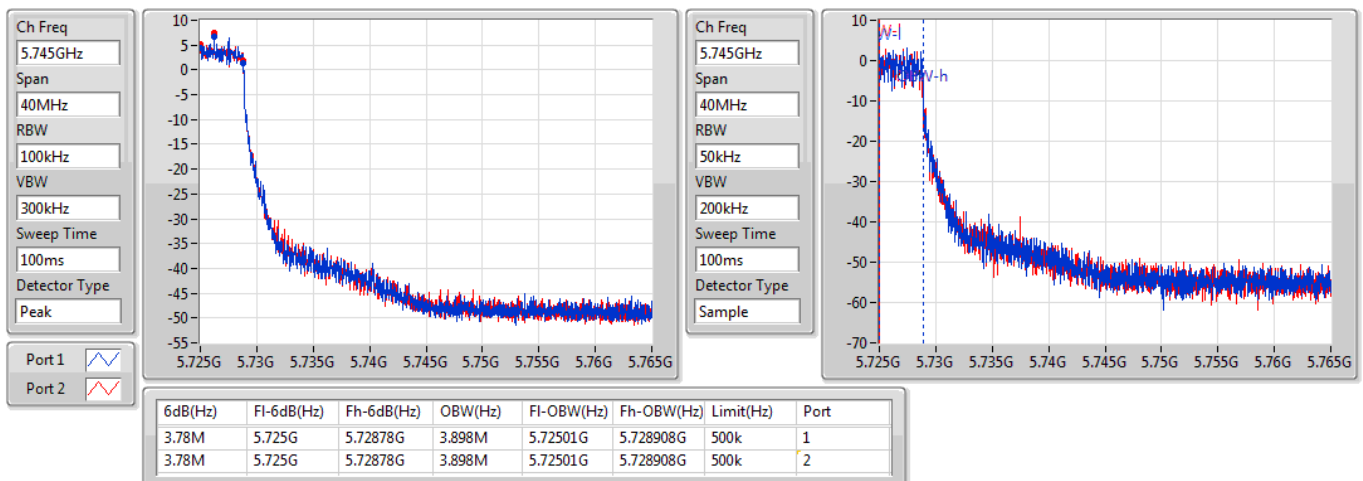


802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

24/03/2018

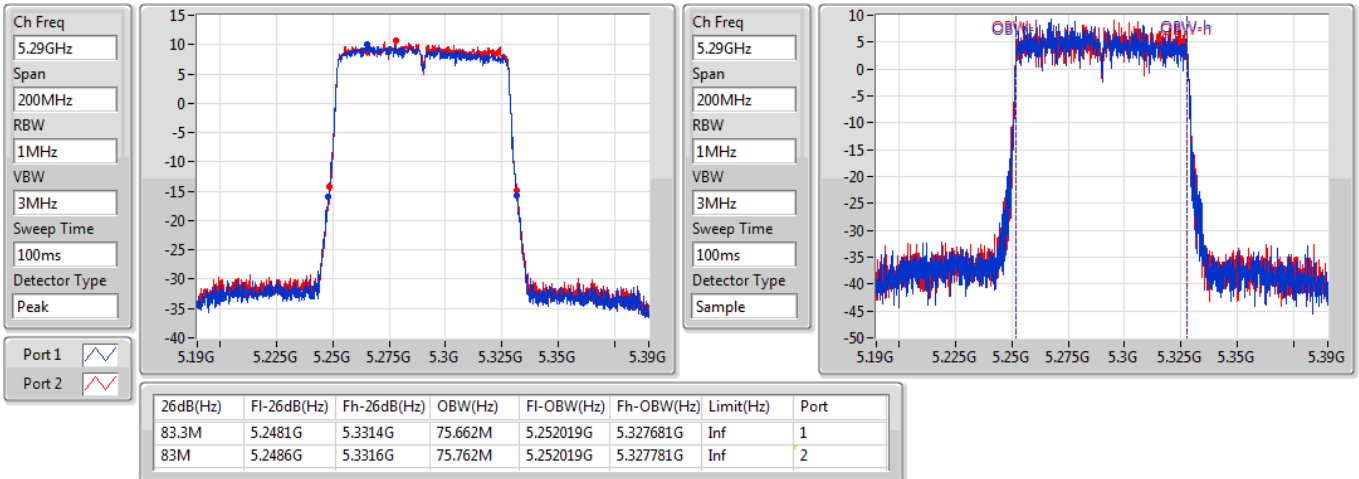

802.11ac VHT20_Nss1,(MCS0)_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

24/03/2018

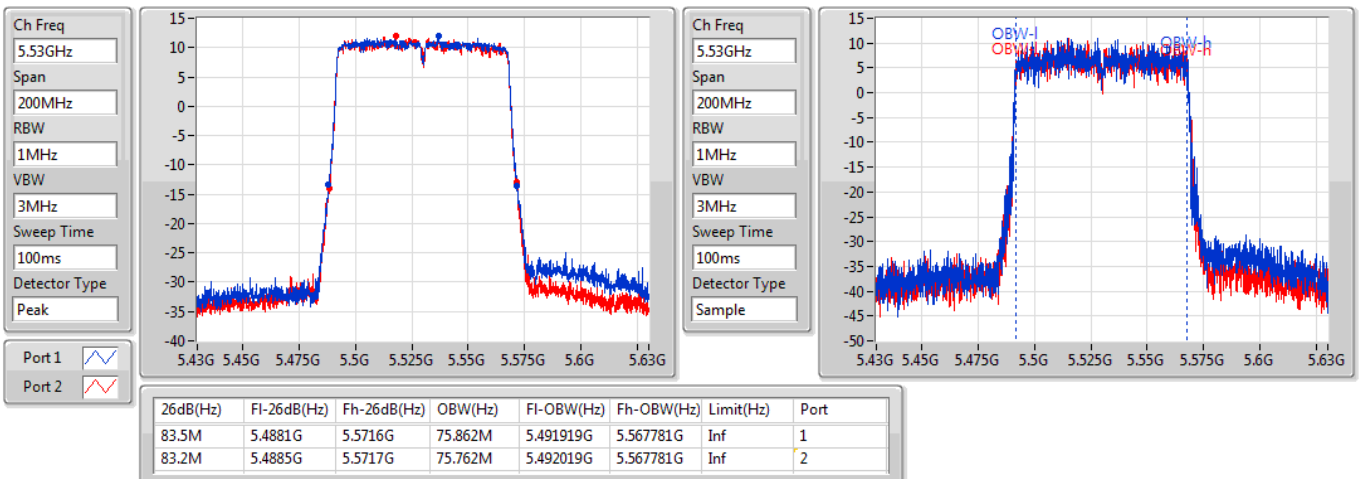


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5290MHz

24/03/2018

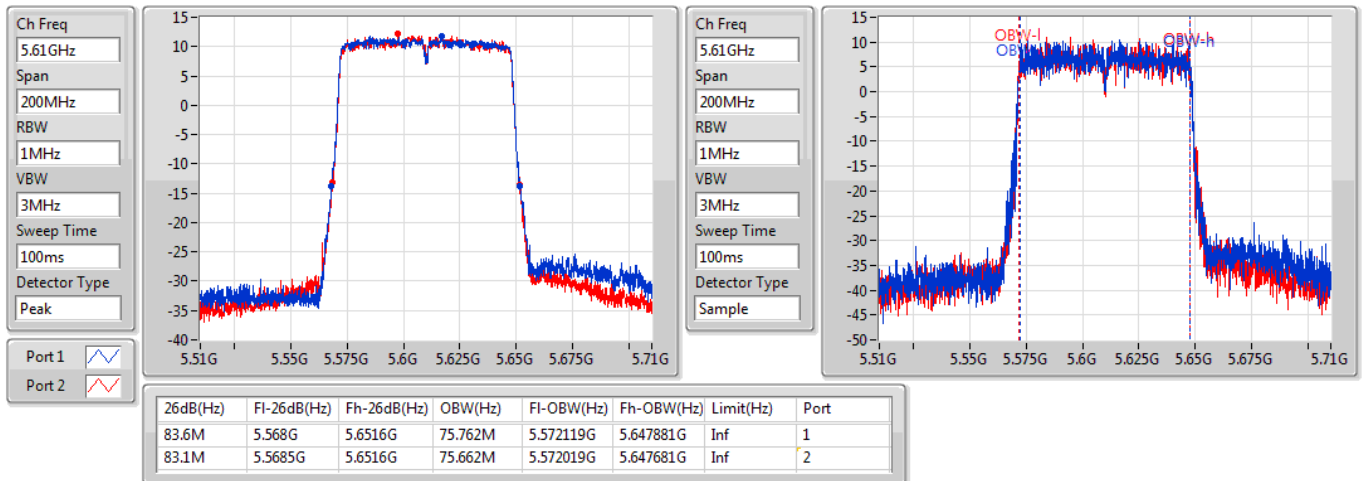

802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5530MHz

24/03/2018

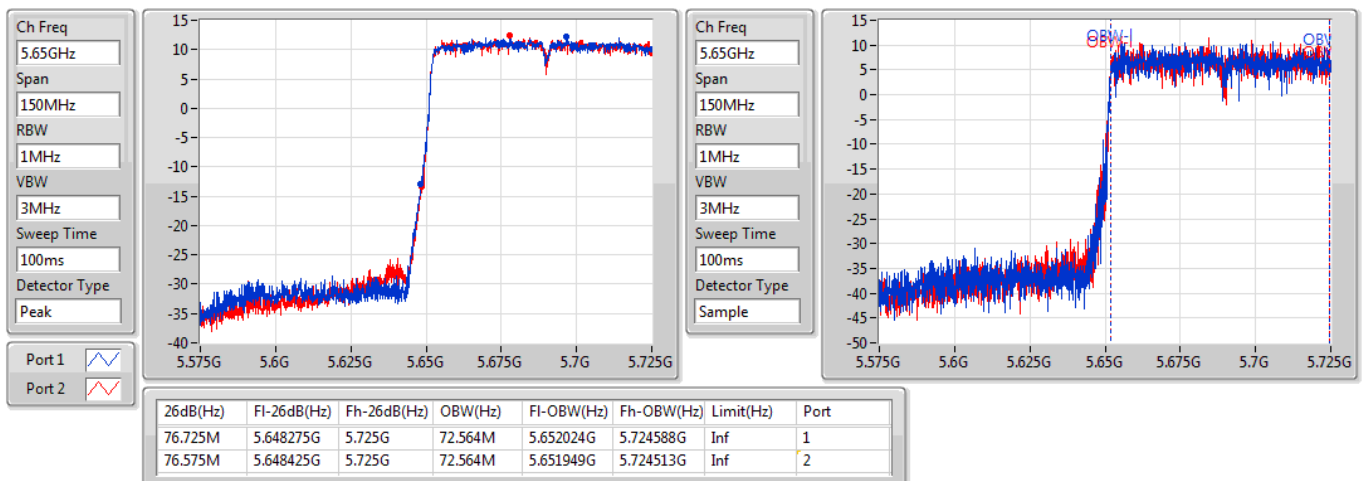


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5610MHz

24/03/2018


802.11ac VHT80_Nss1,(MCS0)_2TX
EBW
5690MHz Straddle 5.47-5.725GHz

24/03/2018

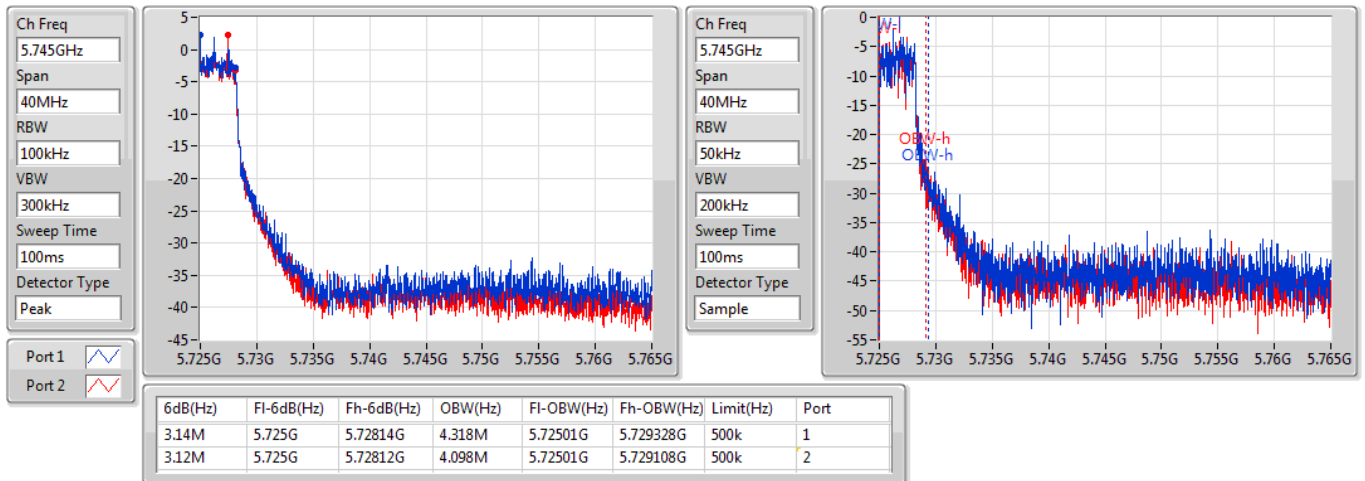


802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz

24/03/2018





**For Ant. 2
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	12.88	0.01941
802.11ac VHT80_Nss1,(MCS0)_2TX	10.80	0.01202
5.47-5.725GHz	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	13.84	0.02421
802.11ac VHT80_Nss1,(MCS0)_2TX	12.63	0.01832
5.725-5.85GHz	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	6.85	0.00484
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.42	0.00072

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	16.00	9.79	9.94	12.88	13.98
5300MHz	Pass	16.00	9.75	9.82	12.80	13.98
5320MHz	Pass	16.00	8.36	8.57	11.48	13.98
5500MHz	Pass	16.00	10.45	10.16	13.32	13.98
5580MHz	Pass	16.00	10.77	10.68	13.74	13.98
5700MHz	Pass	16.00	10.92	10.74	13.84	13.98
5720MHz Straddle 5.47-5.725GHz	Pass	16.00	9.75	9.35	12.56	12.75
5720MHz Straddle 5.725-5.85GHz	Pass	16.00	4.07	3.60	6.85	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	16.00	7.85	7.72	10.80	13.98
5530MHz	Pass	16.00	9.37	8.94	12.17	13.98
5610MHz	Pass	16.00	9.26	8.89	12.09	13.98
5690MHz Straddle 5.47-5.725GHz	Pass	16.00	9.69	9.54	12.63	13.98
5690MHz Straddle 5.725-5.85GHz	Pass	16.00	-4.16	-4.71	-1.42	30.00

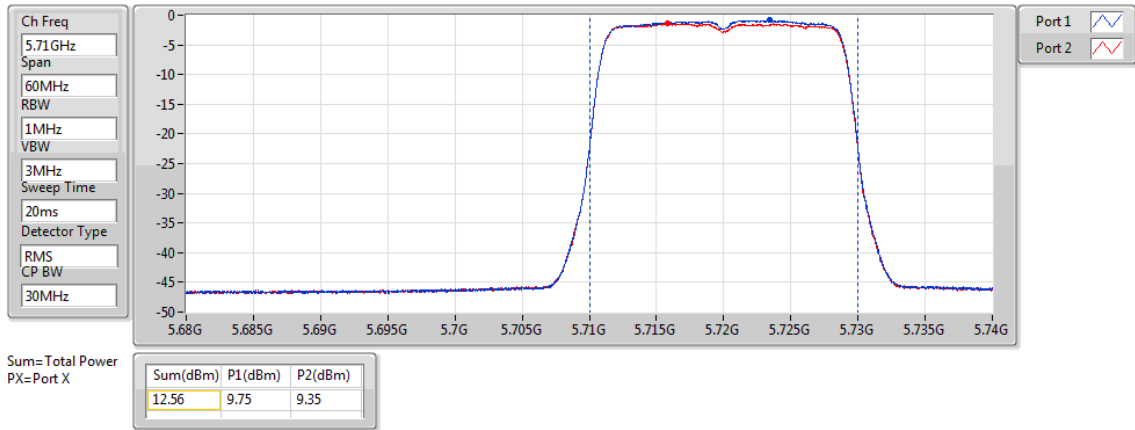
DG = Directional Gain; **Port X** = Port X output power

802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

24/03/2018

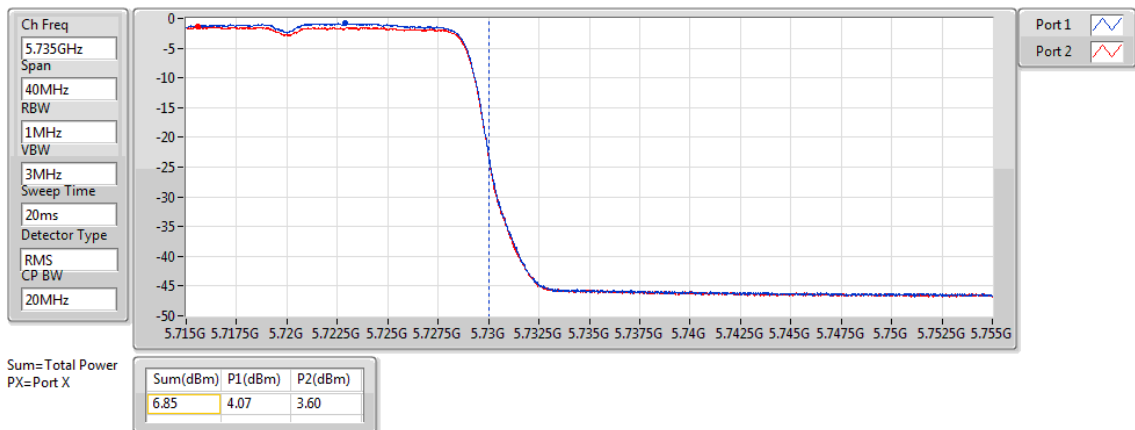


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

24/03/2018

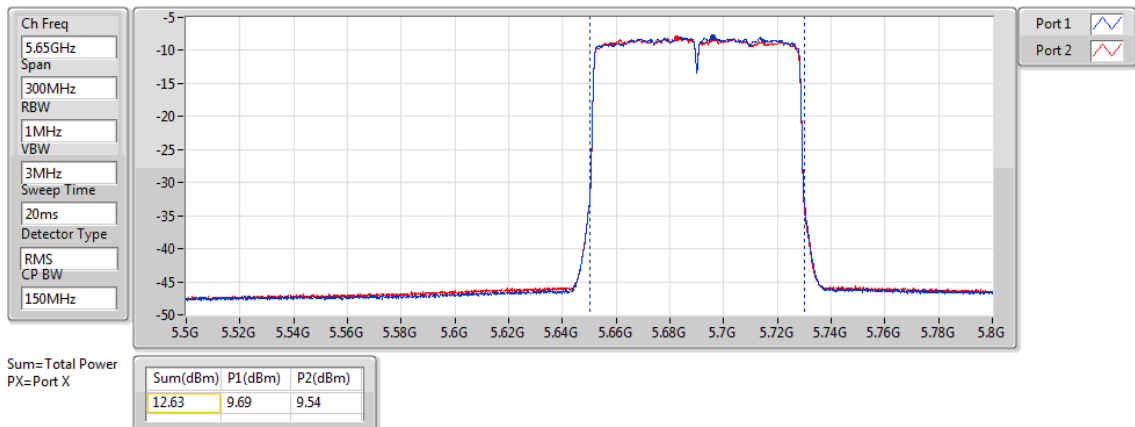


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

24/03/2018

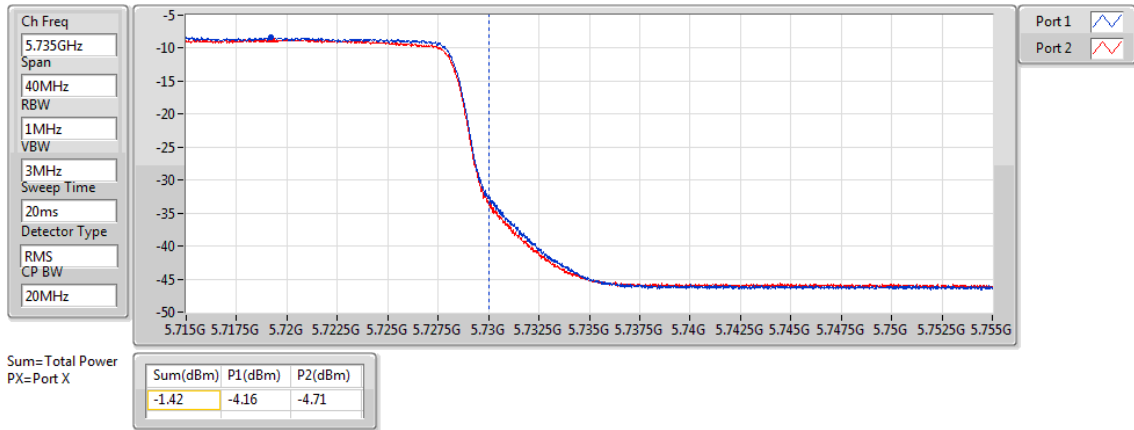


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz

24/03/2018





**For Ant. 3
Summary**

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	23.80	0.23988
802.11ac VHT80_Nss1,(MCS0)_2TX	22.07	0.16106
5.47-5.725GHz	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	23.94	0.24774
802.11ac VHT80_Nss1,(MCS0)_2TX	23.95	0.24831
5.725-5.85GHz	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	16.64	0.04613
802.11ac VHT80_Nss1,(MCS0)_2TX	9.70	0.00933



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	2.00	20.61	20.96	23.80	23.98
5300MHz	Pass	2.00	20.58	20.79	23.70	23.98
5320MHz	Pass	2.00	20.63	20.92	23.79	23.98
5500MHz	Pass	2.00	20.75	20.67	23.72	23.97
5580MHz	Pass	2.00	20.57	20.69	23.64	23.98
5700MHz	Pass	2.00	20.83	21.03	23.94	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	2.00	19.27	19.32	22.31	22.74
5720MHz Straddle 5.725-5.85GHz	Pass	2.00	13.63	13.62	16.64	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	2.00	18.97	19.15	22.07	23.98
5530MHz	Pass	2.00	20.93	20.67	23.81	23.98
5610MHz	Pass	2.00	20.96	20.78	23.88	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	2.00	21.00	20.88	23.95	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	2.00	6.88	6.49	9.70	30.00

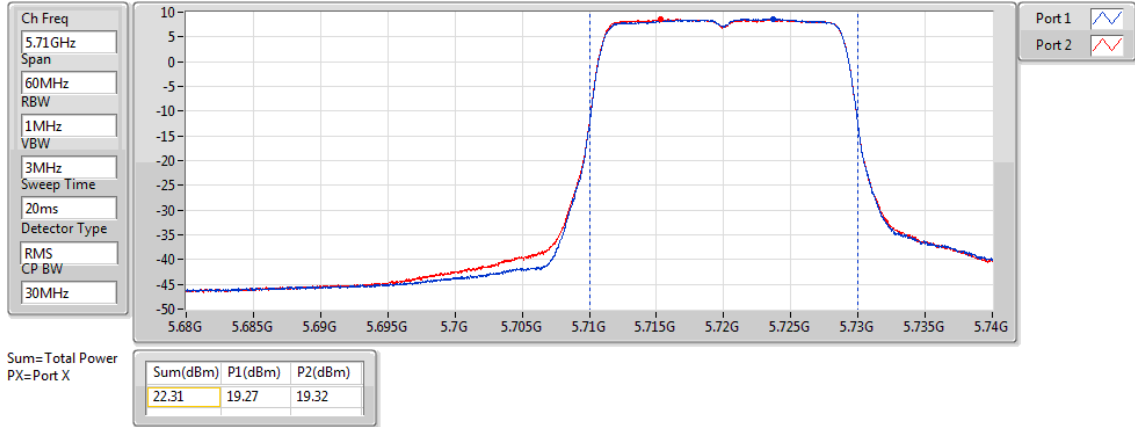
DG = Directional Gain; **Port X** = Port X output power

802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.47-5.725GHz

24/03/2018

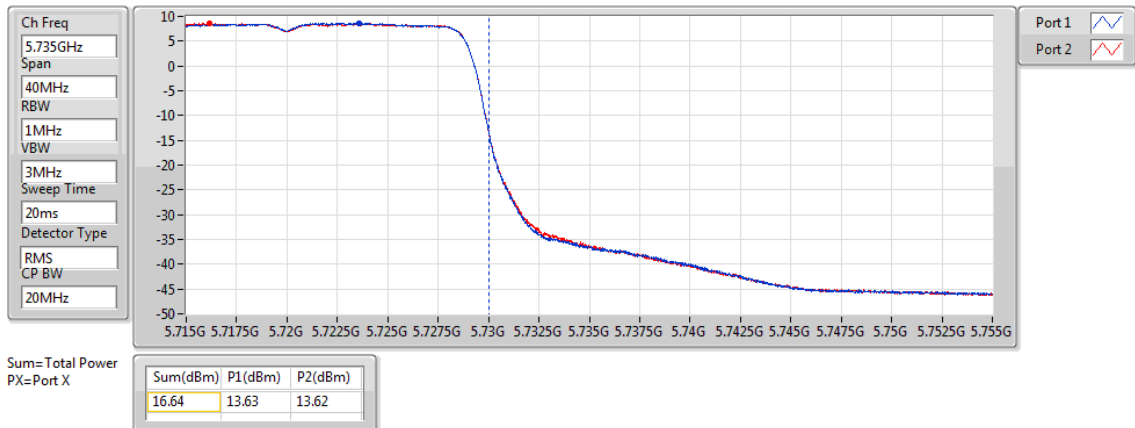


802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz

24/03/2018

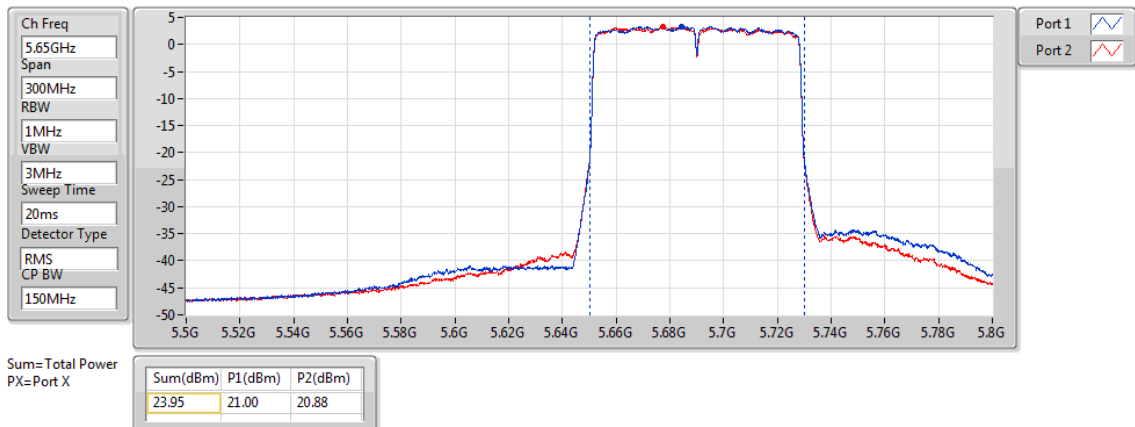


802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz

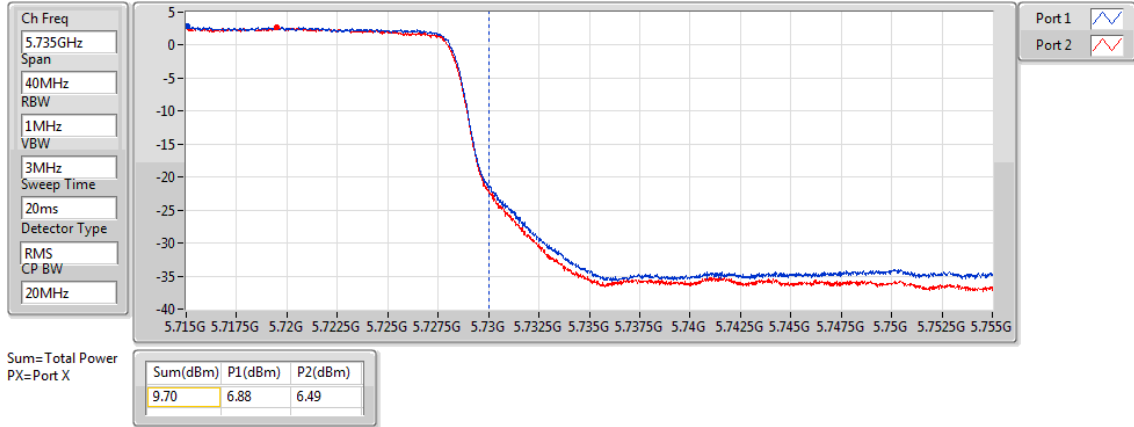
24/03/2018



802.11ac VHT80_Nss1,(MCS0)_2TX
5690MHz Straddle 5.725-5.85GHz

AV Power

24/03/2018



**For Ant. 2
Summary**

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-0.16
802.11ac VHT80_Nss1,(MCS0)_2TX	-8.23
5.47-5.725GHz	-
802.11ac VHT20_Nss1,(MCS0)_2TX	0.68
802.11ac VHT80_Nss1,(MCS0)_2TX	-6.62
5.725-5.85GHz	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-1.39
802.11ac VHT80_Nss1,(MCS0)_2TX	-9.01

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	16.00	-3.22	-3.04	-0.16	1.00
5300MHz	Pass	16.00	-3.46	-3.39	-0.43	1.00
5320MHz	Pass	16.00	-4.62	-4.48	-1.60	1.00
5500MHz	Pass	16.00	-2.63	-2.99	0.20	1.00
5580MHz	Pass	16.00	-2.26	-2.43	0.60	1.00
5700MHz	Pass	16.00	-2.01	-2.50	0.68	1.00
5720MHz Straddle 5.47-5.725GHz	Pass	16.00	-2.34	-2.94	0.30	1.00
5720MHz Straddle 5.725-5.85GHz	Pass	16.00	-4.10	-4.72	-1.39	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	16.00	-11.06	-11.30	-8.23	1.00
5530MHz	Pass	16.00	-9.74	-10.36	-7.09	1.00
5610MHz	Pass	16.00	-9.72	-10.19	-7.01	1.00
5690MHz Straddle 5.47-5.725GHz	Pass	16.00	-9.54	-9.55	-6.62	1.00
5690MHz Straddle 5.725-5.85GHz	Pass	16.00	-11.66	-12.12	-9.01	30.00

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

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

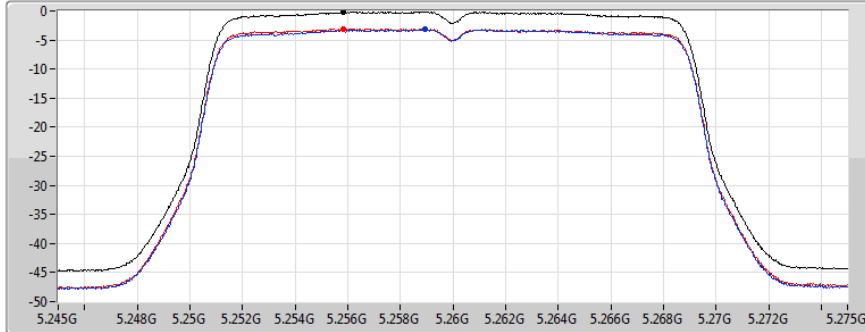
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

24/03/2018

Ch Freq
5.26GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.16	-0.16	-3.22	-3.04

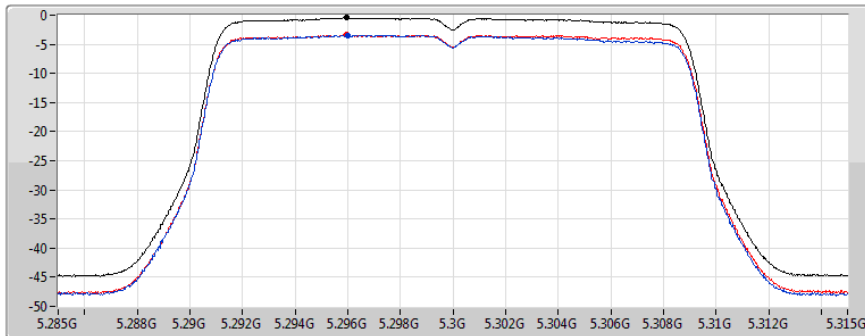
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

24/03/2018

Ch Freq
5.3GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.43	-0.43	-3.46	-3.39

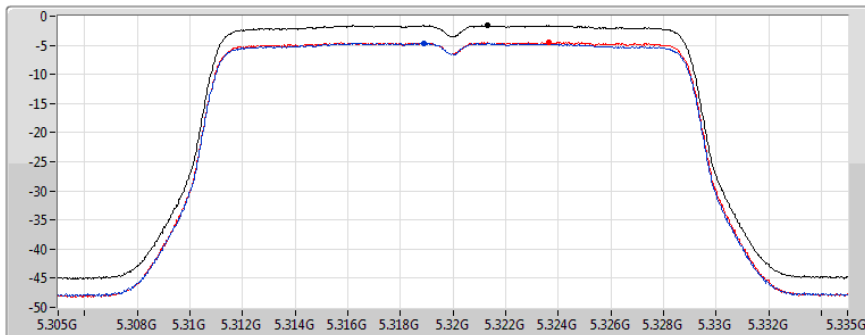
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

24/03/2018

Ch Freq
5.32GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

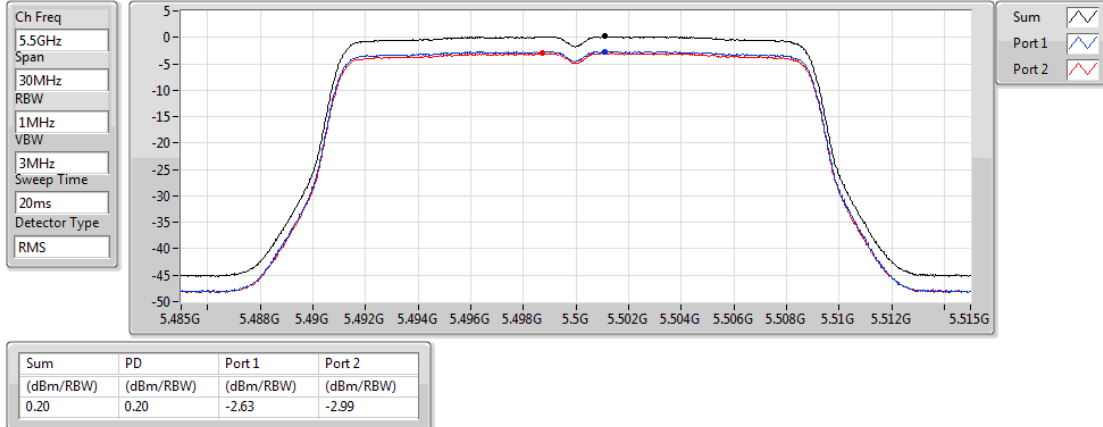
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.60	-1.60	-4.62	-4.48

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

24/03/2018

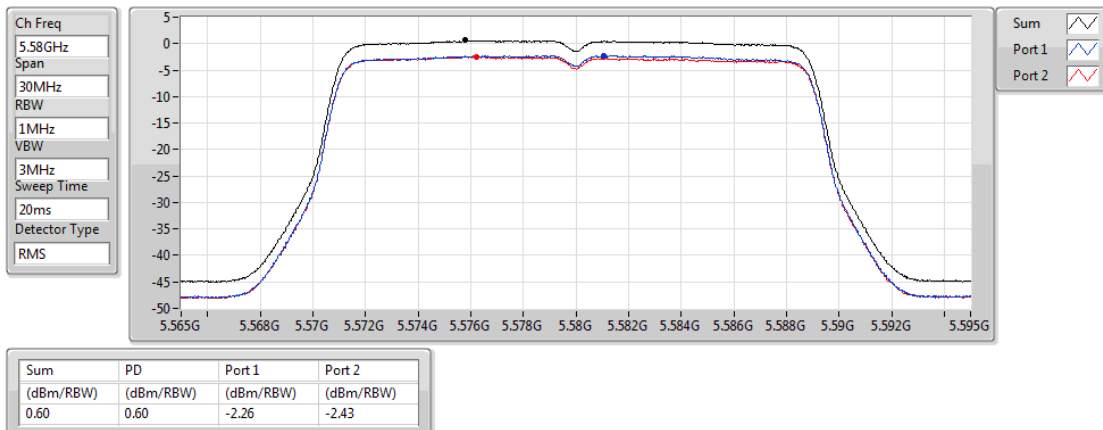


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

24/03/2018

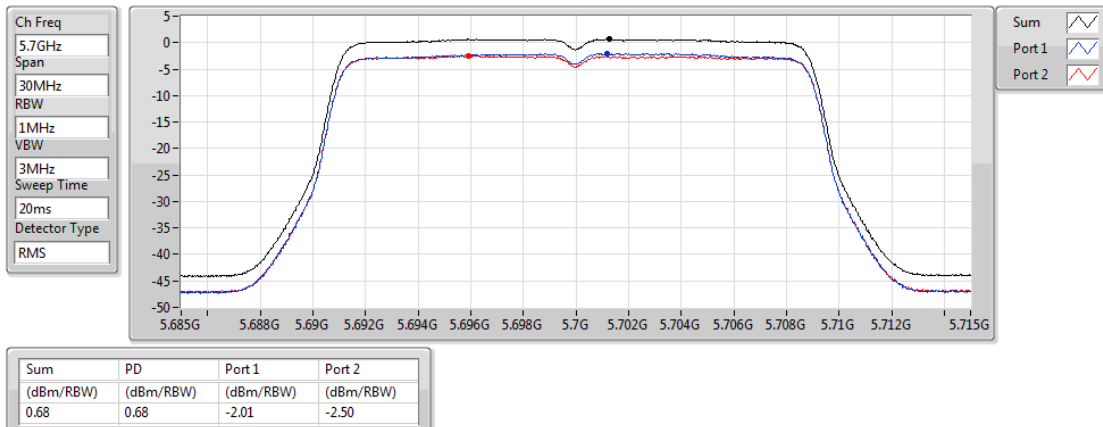


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

24/03/2018

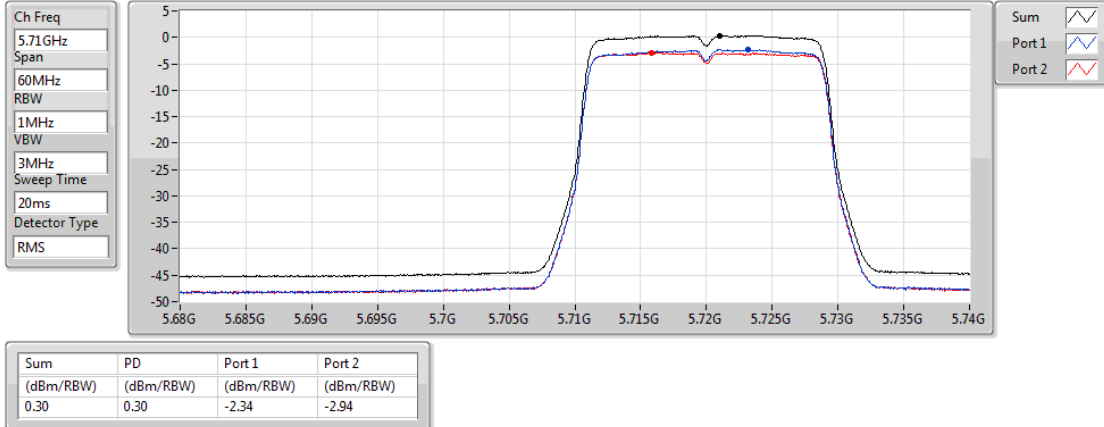


802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.47-5.725GHz

PSD

24/03/2018

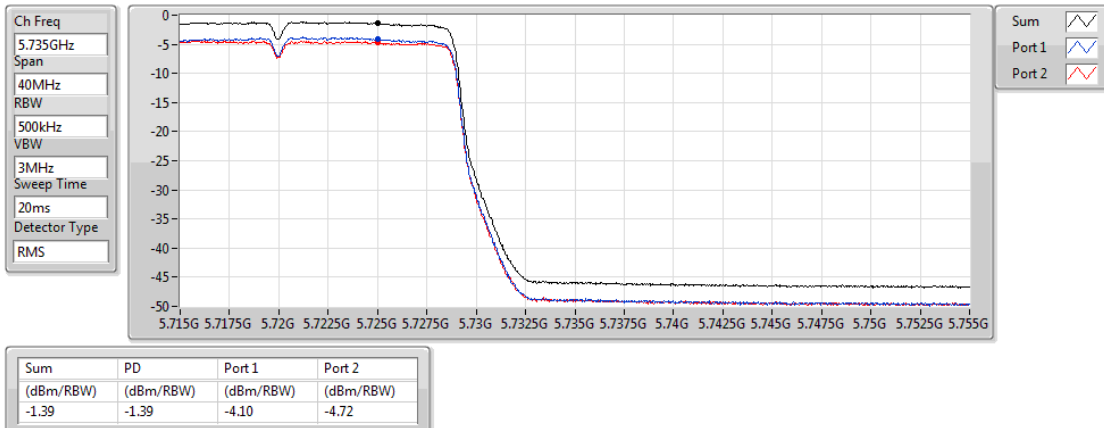


802.11ac VHT20_Nss1,(MCS0)_2TX

5720MHz Straddle 5.725-5.85GHz

PSD

24/03/2018

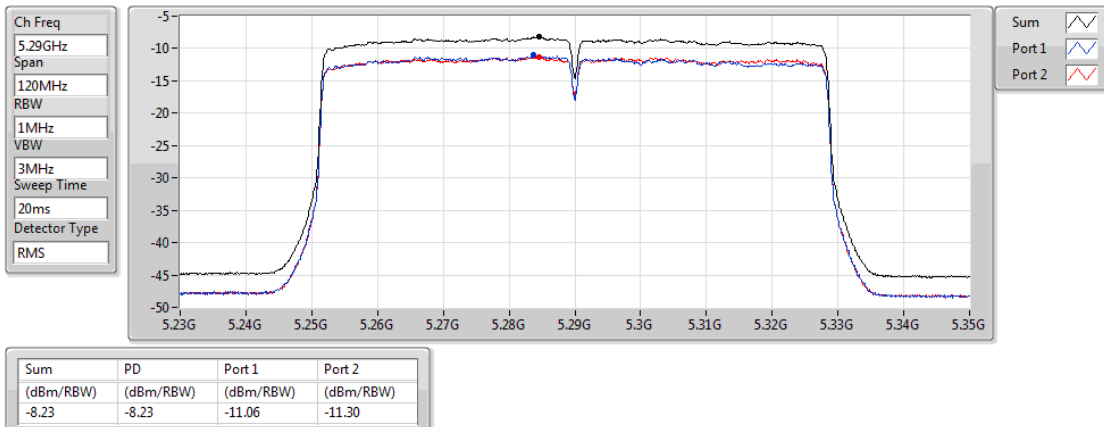


802.11ac VHT80_Nss1,(MCS0)_2TX

5290MHz

PSD

24/03/2018



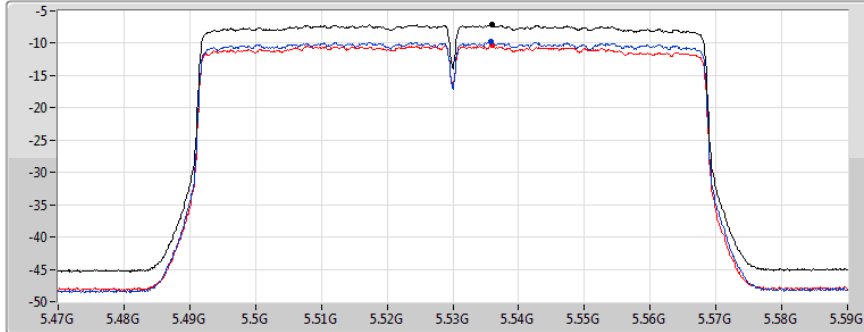
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

24/03/2018

Ch Freq
5.53GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☐
Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.09	-7.09	-9.74	-10.36

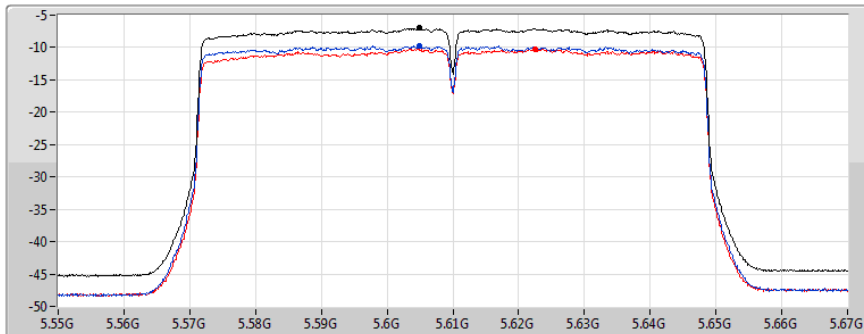
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

24/03/2018

Ch Freq
5.61GHz
Span
120MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☐
Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.01	-7.01	-9.72	-10.19

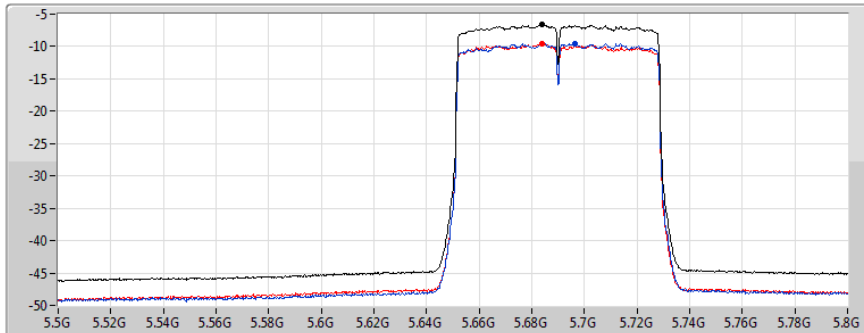
802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

24/03/2018

Ch Freq
5.65GHz
Span
300MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☐
Port 2 ☐

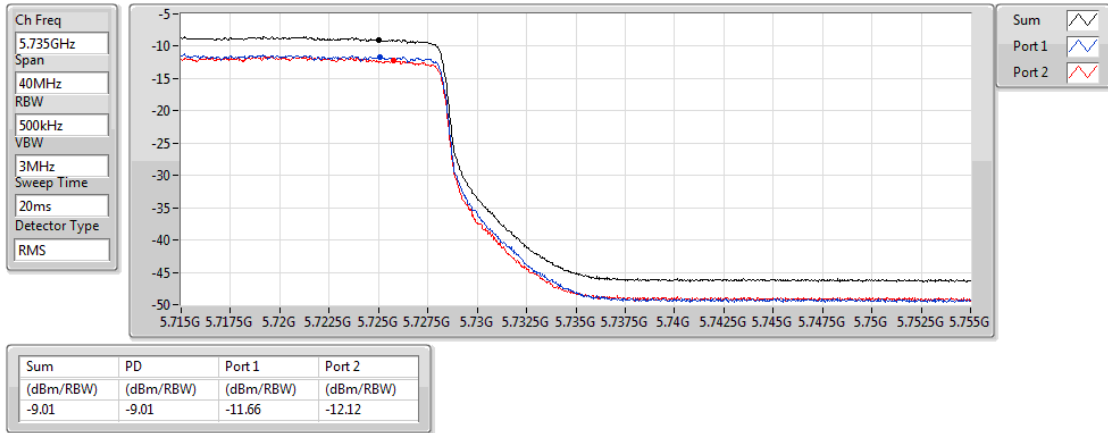
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.62	-6.62	-9.54	-9.55

802.11ac VHT80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.725-5.85GHz

PSD

24/03/2018



**For Ant. 3
Summary**

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11ac VHT20_Nss1,(MCS0)_2TX	10.72
802.11ac VHT80_Nss1,(MCS0)_2TX	2.99
5.47-5.725GHz	-
802.11ac VHT20_Nss1,(MCS0)_2TX	10.70
802.11ac VHT80_Nss1,(MCS0)_2TX	4.67
5.725-5.85GHz	-
802.11ac VHT20_Nss1,(MCS0)_2TX	8.36
802.11ac VHT80_Nss1,(MCS0)_2TX	2.17

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	2.00	7.57	7.98	10.72	11.00
5300MHz	Pass	2.00	7.65	7.63	10.62	11.00
5320MHz	Pass	2.00	7.59	7.83	10.67	11.00
5500MHz	Pass	2.00	7.63	7.54	10.54	11.00
5580MHz	Pass	2.00	7.38	7.62	10.45	11.00
5700MHz	Pass	2.00	7.71	7.84	10.70	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.00	7.13	7.10	10.03	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	2.00	5.38	5.37	8.36	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	2.00	0.00	0.09	2.99	11.00
5530MHz	Pass	2.00	1.73	1.59	4.60	11.00
5610MHz	Pass	2.00	1.83	1.82	4.66	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.00	1.78	1.67	4.67	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	2.00	-0.67	-1.01	2.17	30.00

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

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

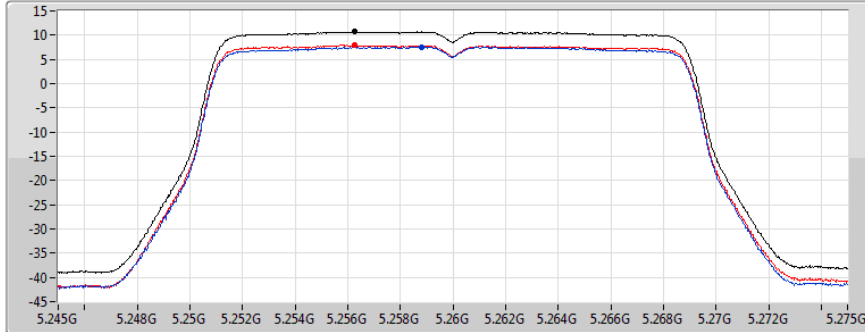
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

24/03/2018

Ch Freq
5.26GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.72	10.72	7.57	7.98

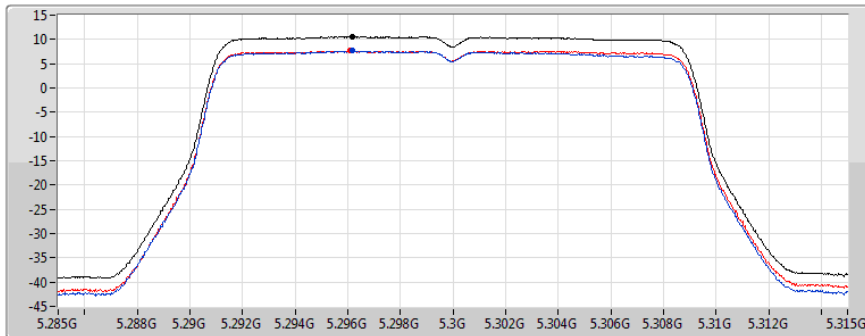
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

24/03/2018

Ch Freq
5.3GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.62	10.62	7.65	7.63

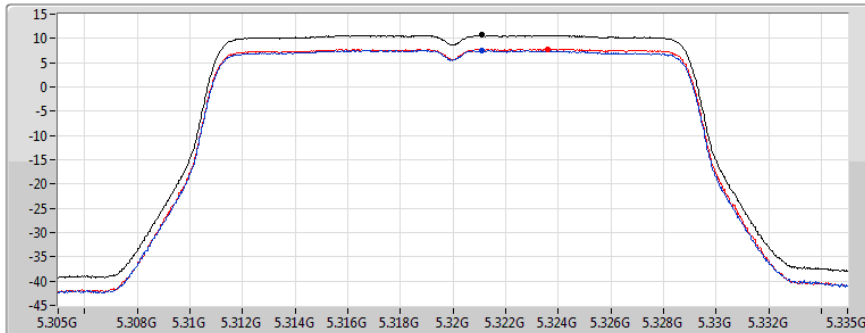
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

24/03/2018

Ch Freq
5.32GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.67	10.67	7.59	7.83

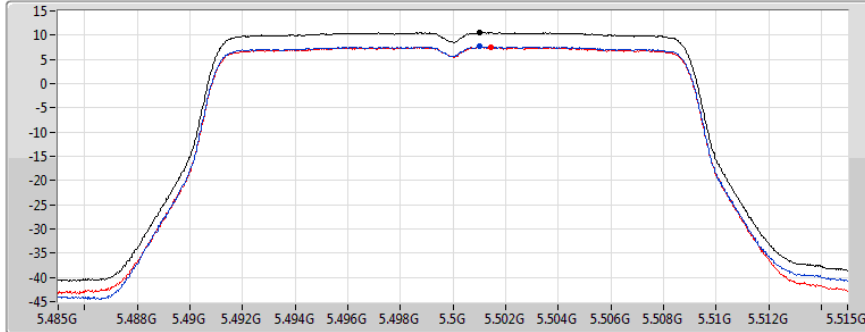
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

24/03/2018

Ch Freq
5.5GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.54	10.54	7.63	7.54

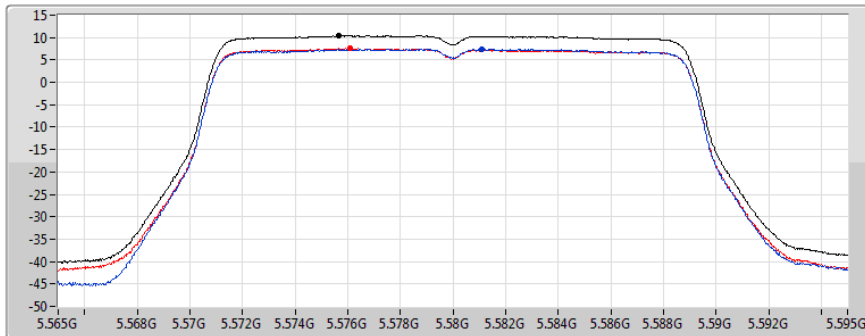
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

24/03/2018

Ch Freq
5.58GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.45	10.45	7.38	7.62

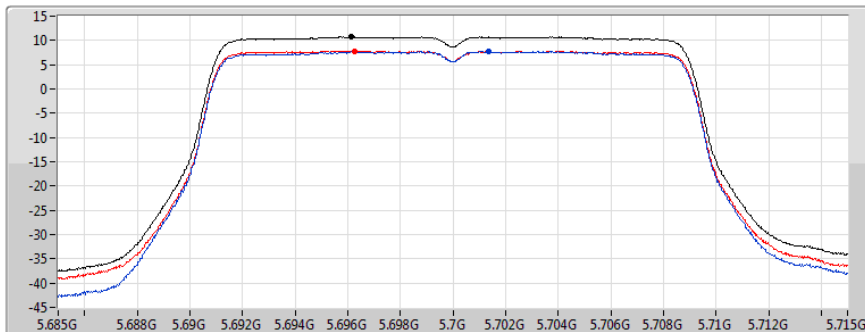
802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5700MHz

24/03/2018

Ch Freq
5.7GHz
Span
30MHz
RBW
1MHz
VBW
3MHz
Sweep Time
20ms
Detector Type
RMS



Sum ☒
Port 1 ☒
Port 2 ☒

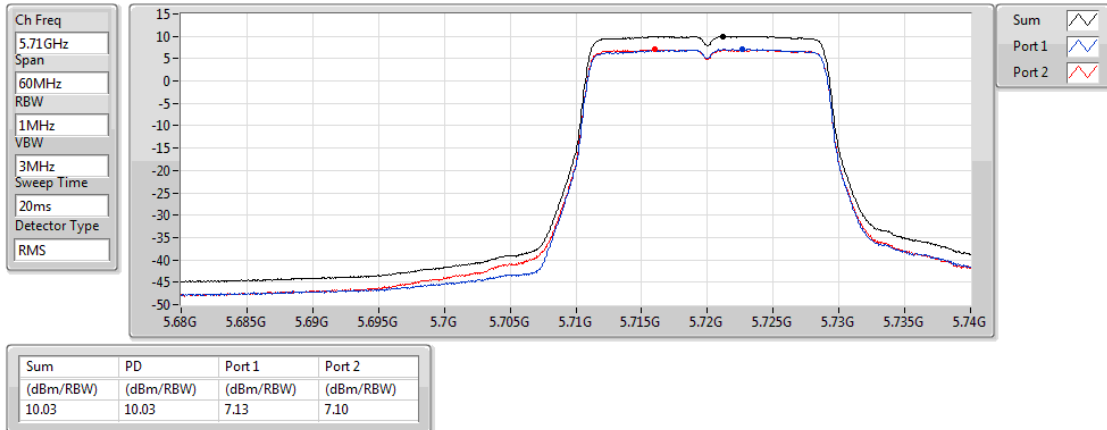
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.70	10.70	7.71	7.84

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

24/03/2018

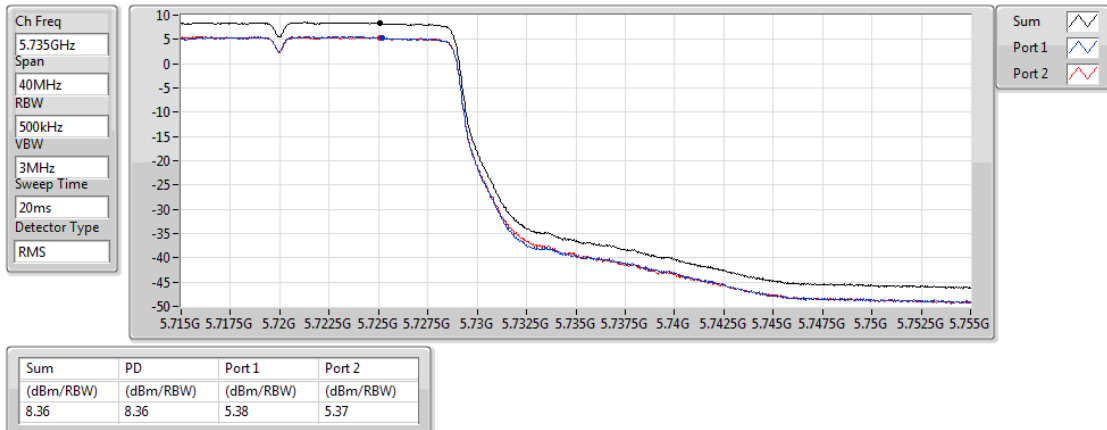


802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

24/03/2018

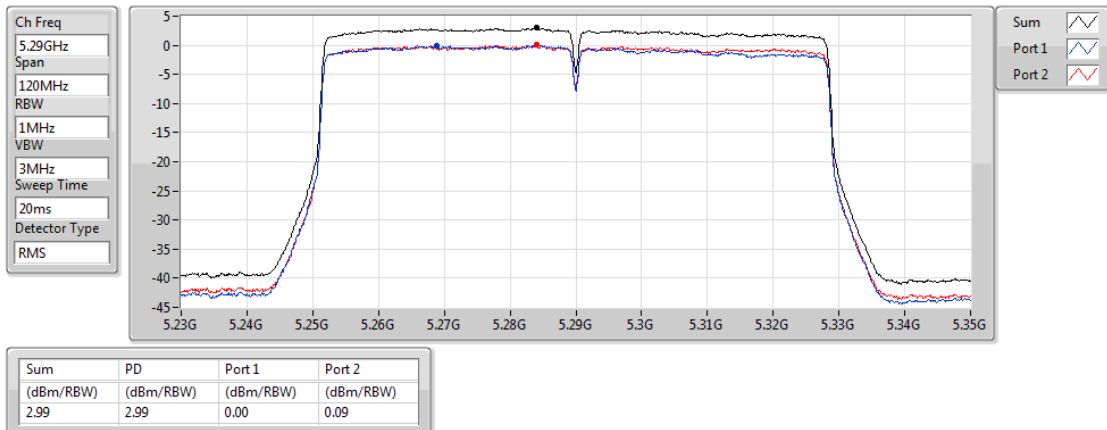


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

24/03/2018

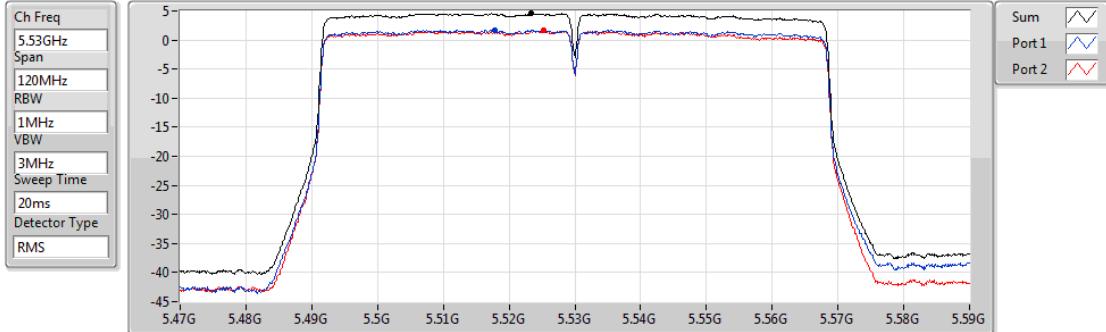


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5530MHz

24/03/2018

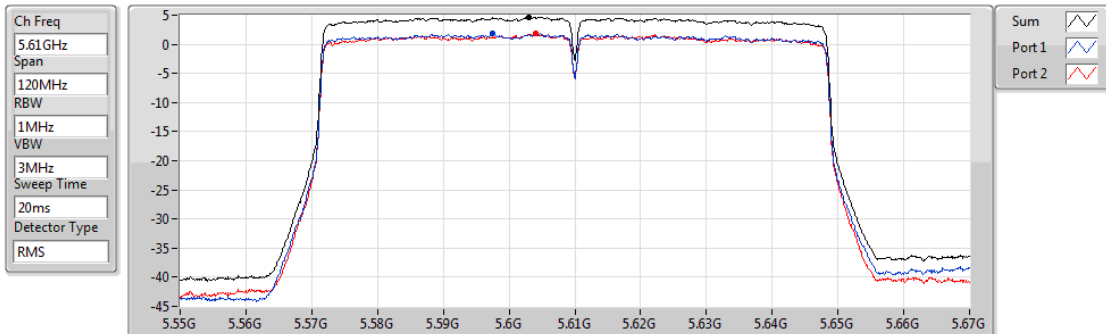


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

24/03/2018

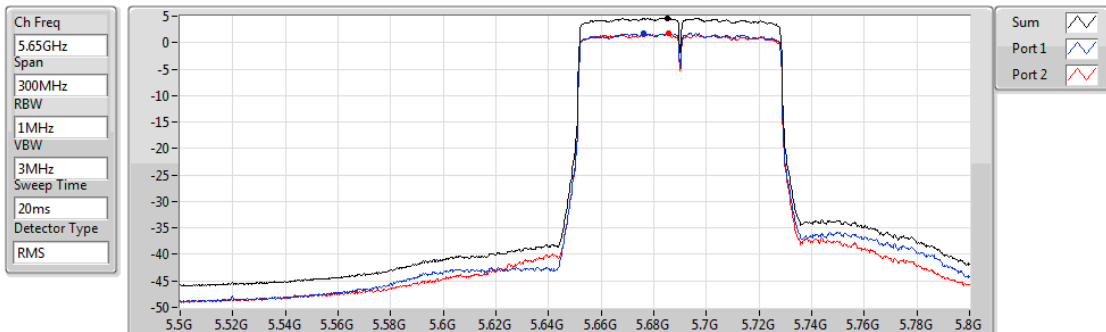


802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

24/03/2018

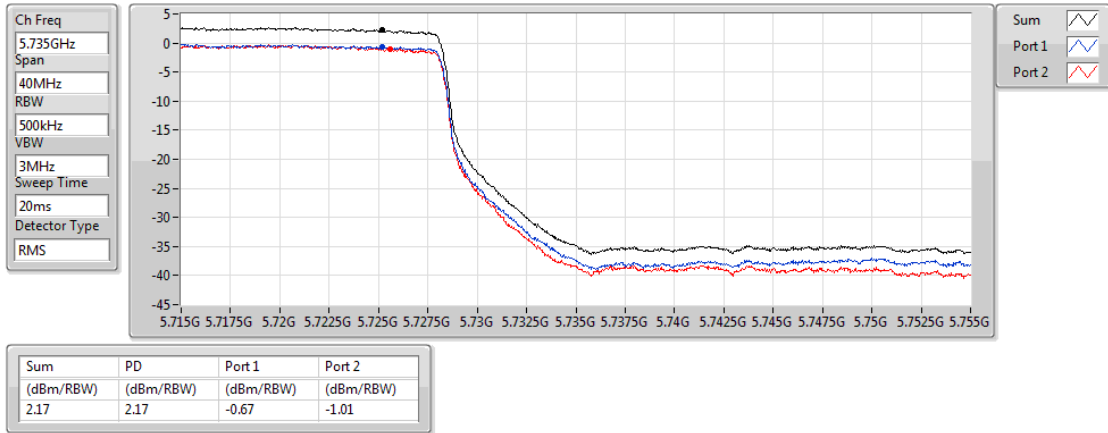


802.11ac VHT80_Nss1,(MCS0)_2TX

5690MHz Straddle 5.725-5.85GHz

PSD

24/03/2018



For CSE

For Ant. 2

IEEE 802.11ac Nss1 MCS0 VHT20 1GHz~3GHz

Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-85.07	-85.02	-66.03	-41.25	24.78
5300	16.00	-85.04	-85.09	-66.05	-41.25	24.80
5320	16.00	-85.07	-85.00	-66.02	-41.25	24.77
5500	16.00	-85.54	-85.70	-66.61	-41.25	25.36
5580	16.00	-85.70	-85.62	-66.65	-41.25	25.40
5700	16.00	-85.67	-85.79	-66.72	-41.25	25.47
5720	16.00	-85.79	-85.73	-66.75	-41.25	25.50

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-77.55	-72.38	-55.23	-21.25	33.98
5300	16.00	-76.23	-71.14	-53.97	-21.25	32.72
5320	16.00	-72.45	-70.85	-52.57	-21.25	31.32
5500	16.00	-72.28	-72.86	-53.55	-21.25	32.30
5580	16.00	-72.73	-72.99	-53.85	-21.25	32.60
5700	16.00	-72.38	-71.61	-52.97	-21.25	31.72
5720	16.00	-72.98	-72.37	-53.65	-21.25	32.40

IEEE 802.11ac Nss1 MCS0 VHT20 3GHz~6GHz
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-59.67	-62.66	-41.90	-41.25	0.65
5300	16.00	-60.36	-62.81	-42.40	-41.25	1.15
5320	16.00	-65.68	-64.43	-46.00	-41.25	4.75
5500	16.00	-66.91	-65.04	-46.86	-41.25	5.61
5580	16.00	-60.78	-64.98	-43.38	-41.25	2.13
5700	16.00	-62.78	-64.62	-44.59	-41.25	3.34
5720	16.00	-63.86	-64.43	-45.13	-41.25	3.88

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-52.31	-52.76	-33.52	-21.25	12.27	-52.31
5300	-53.01	-52.46	-33.72	-21.25	12.47	-53.01
5320	-57.17	-55.20	-37.06	-21.25	15.81	-57.17
5500	16.00	-57.54	-53.97	-36.39	-21.25	15.14
5580	16.00	-52.29	-55.35	-34.55	-21.25	13.30
5700	16.00	-52.43	-54.23	-34.23	-21.25	12.98
5720	16.00	-54.14	-56.13	-36.01	-21.25	14.76

IEEE 802.11ac Nss1 MCS0 VHT20 6GHz~9GHz
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-75.51	-72.25	-54.57	-41.25	13.32
5300	16.00	-75.77	-72.44	-54.78	-41.25	13.53
5320	16.00	-77.14	-72.40	-55.14	-41.25	13.89
5500	16.00	-75.81	-72.10	-54.56	-41.25	13.31
5580	16.00	-71.92	-72.02	-52.96	-41.25	11.71
5700	16.00	-71.22	-70.56	-51.87	-41.25	10.62
5720	16.00	-71.46	-71.14	-52.29	-41.25	11.04

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-63.50	-63.56	-44.52	-21.25	23.27
5300	16.00	-63.27	-64.04	-44.63	-21.25	23.38
5320	16.00	-64.55	-67.26	-46.69	-21.25	25.44
5500	16.00	-63.85	-62.52	-44.12	-21.25	22.87
5580	16.00	-61.43	-62.18	-42.78	-21.25	21.53
5700	16.00	-58.81	-58.91	-39.85	-21.25	18.60
5720	16.00	-59.20	-60.77	-40.90	-21.25	19.65

IEEE 802.11ac Nss1 MCS0 VHT20 9GHz~18GHz
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-78.09	-77.92	-58.99	-41.25	17.74
5300	16.00	-78.01	-78.12	-59.05	-41.25	17.80
5320	16.00	-77.98	-77.99	-58.97	-41.25	17.72
5500	16.00	-78.11	-77.83	-58.96	-41.25	17.71
5580	16.00	-78.07	-78.14	-59.09	-41.25	17.84
5700	16.00	-78.26	-78.22	-59.23	-41.25	17.98
5720	16.00	-78.22	-78.03	-59.11	-41.25	17.86

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-66.19	-66.04	-47.10	-21.25	25.85
5300	16.00	-65.82	-65.57	-46.68	-21.25	25.43
5320	16.00	-65.88	-64.66	-46.22	-21.25	24.97
5500	16.00	-66.66	-65.89	-47.25	-21.25	26.00
5580	16.00	-66.11	-65.49	-46.78	-21.25	25.53
5700	16.00	-66.09	-65.98	-47.02	-21.25	25.77
5720	16.00	-66.07	-66.20	-47.12	-21.25	25.87

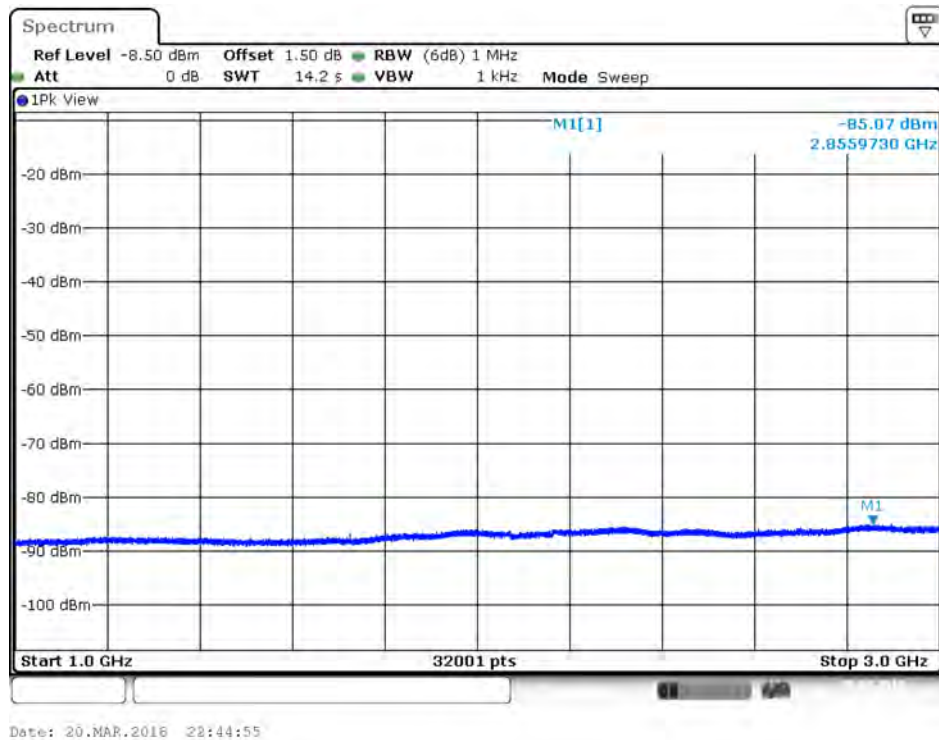
IEEE 802.11ac Nss1 MCS0 VHT20 18GHz~40GHz
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-73.66	-73.66	-54.65	-41.25	13.40
5300	16.00	-73.78	-73.73	-54.74	-41.25	13.49
5320	16.00	-73.64	-73.76	-54.69	-41.25	13.44
5500	16.00	-74.36	-74.30	-55.32	-41.25	14.07
5580	16.00	-74.29	-74.24	-55.25	-41.25	14.00
5700	16.00	-74.27	-74.22	-55.23	-41.25	13.98
5720	16.00	-74.12	-74.35	-55.22	-41.25	13.97

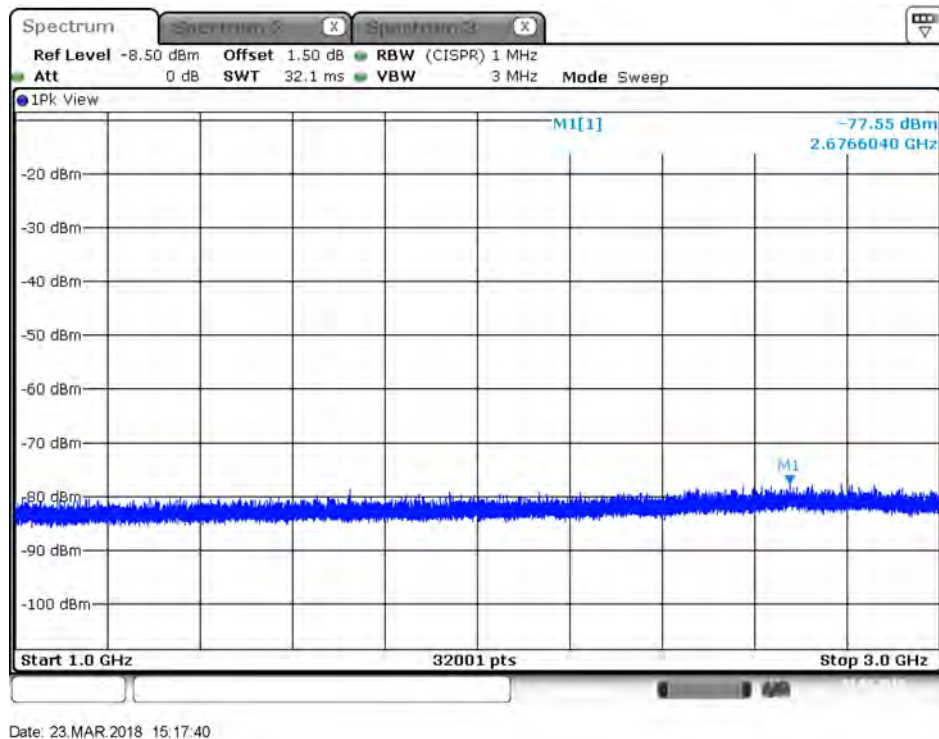
Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	16.00	-61.82	-61.78	-42.79	-21.25	21.54
5300	16.00	-61.65	-61.41	-42.52	-21.25	21.27
5320	16.00	-61.75	-61.80	-42.76	-21.25	21.51
5500	16.00	-62.39	-61.50	-42.91	-21.25	21.66
5580	16.00	-62.19	-61.43	-42.78	-21.25	21.53
5700	16.00	-62.20	-62.03	-43.10	-21.25	21.85
5720	16.00	-61.83	-62.59	-43.18	-21.25	21.93

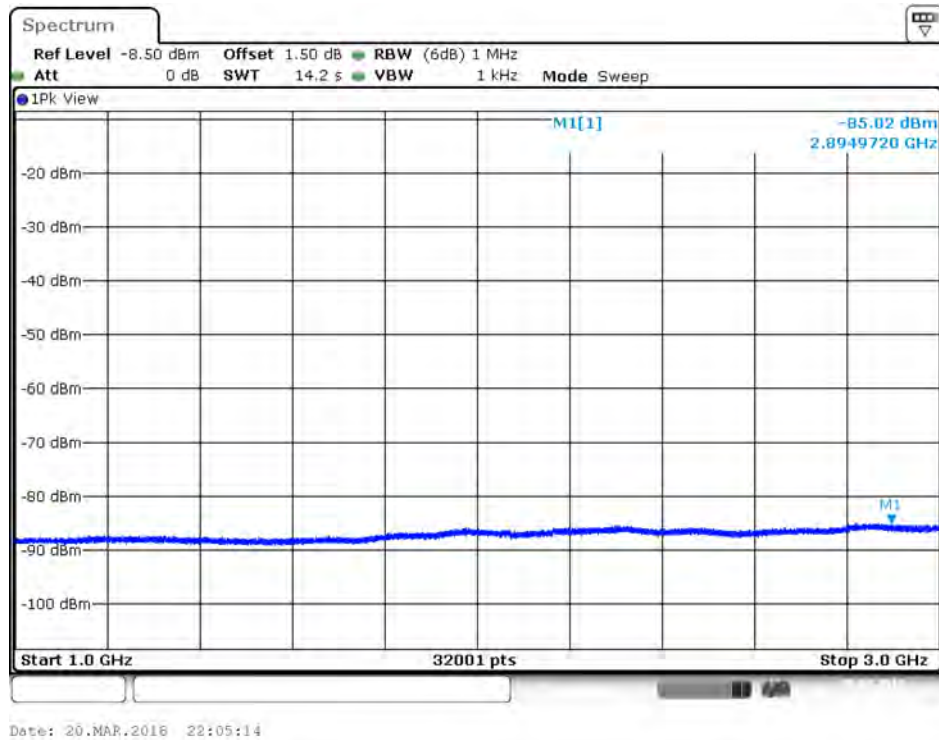
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 1 / 1GHz~3GHz



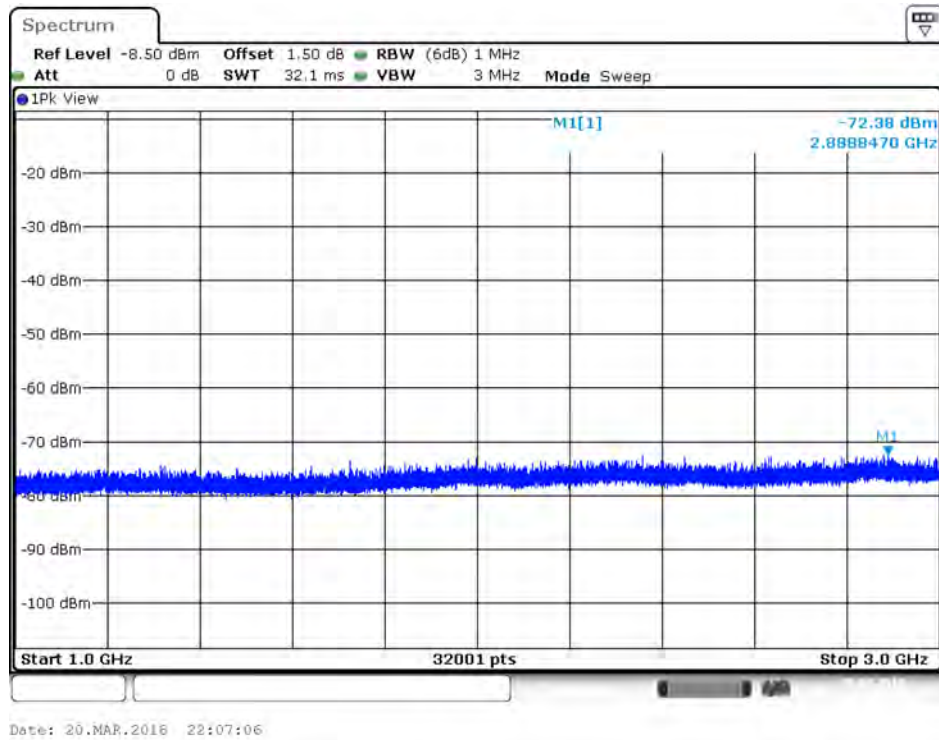
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 1 / 1GHz~3GHz



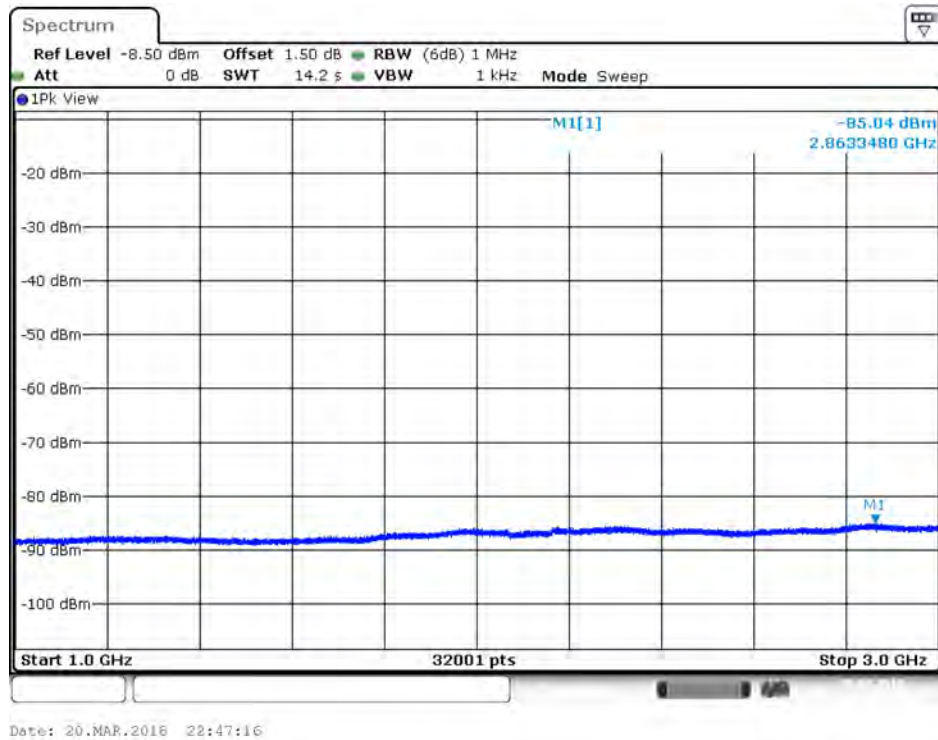
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 2 / 1GHz~3GHz



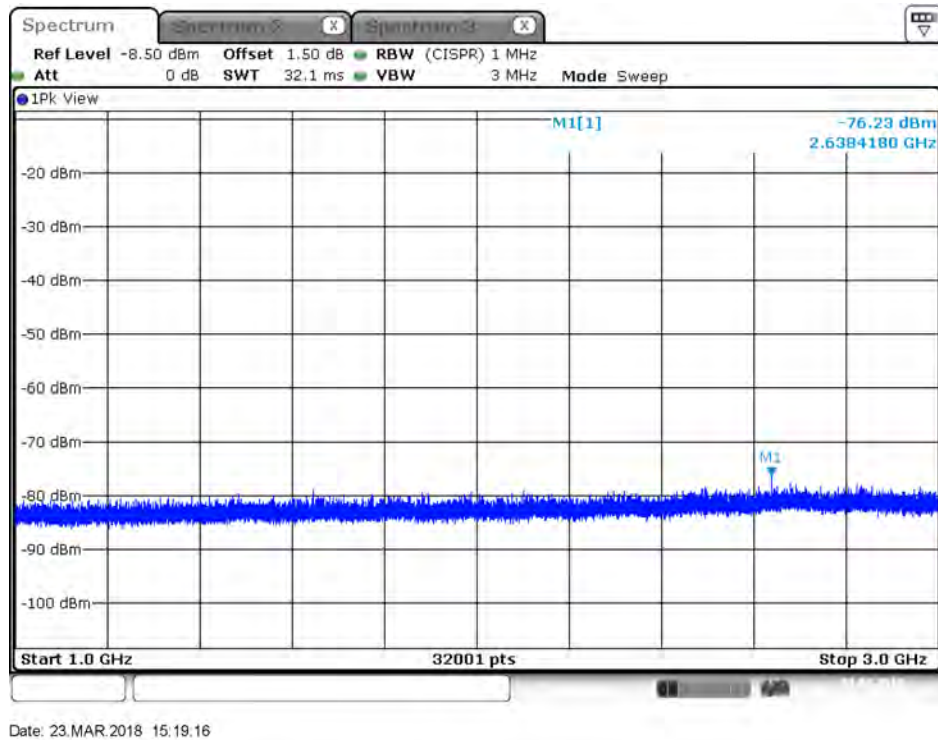
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 2 / 1GHz~3GHz



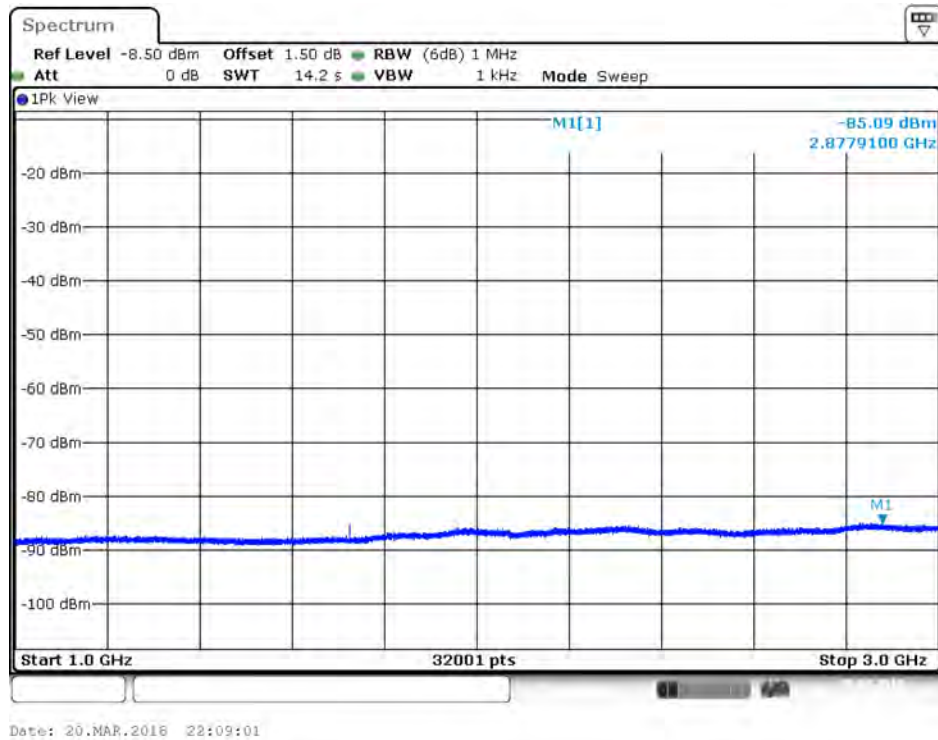
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 1 / 1GHz~3GHz



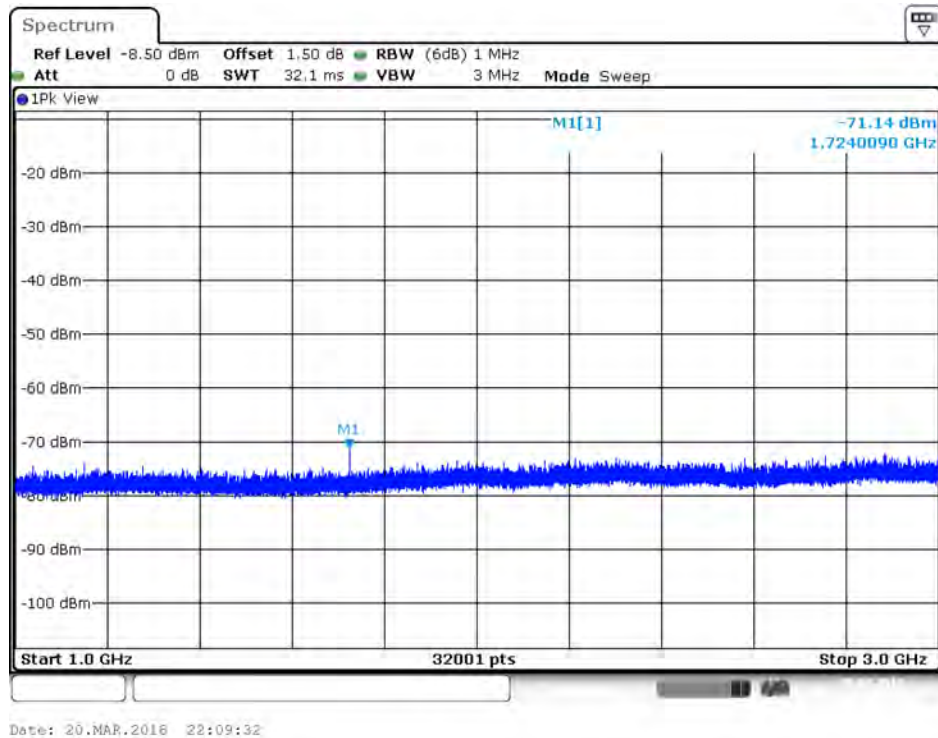
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 1 / 1GHz~3GHz



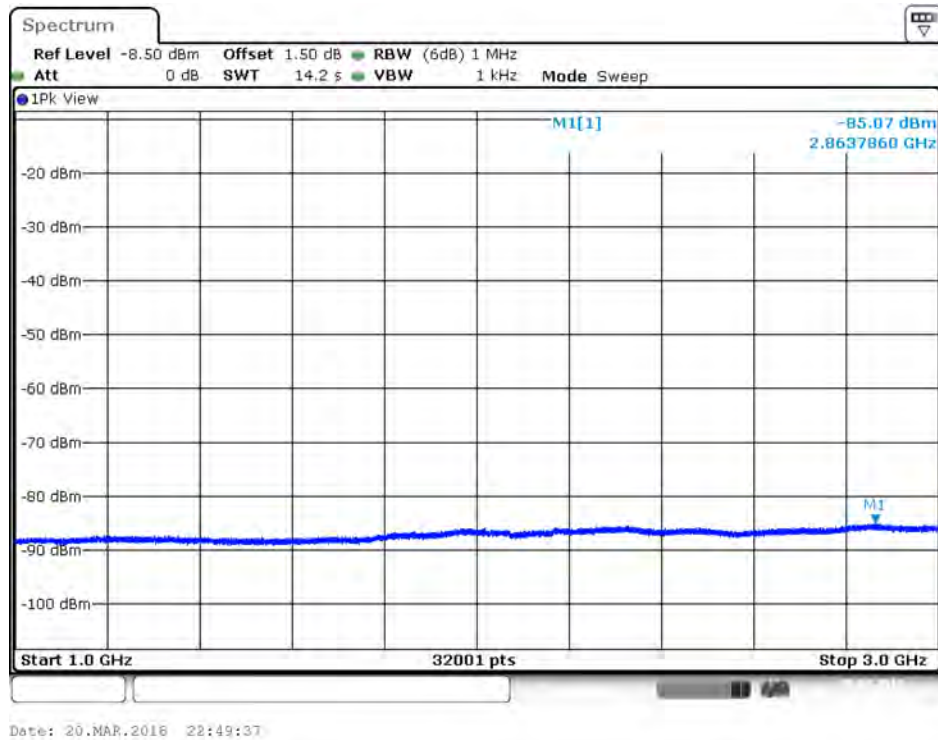
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 2 / 1GHz~3GHz



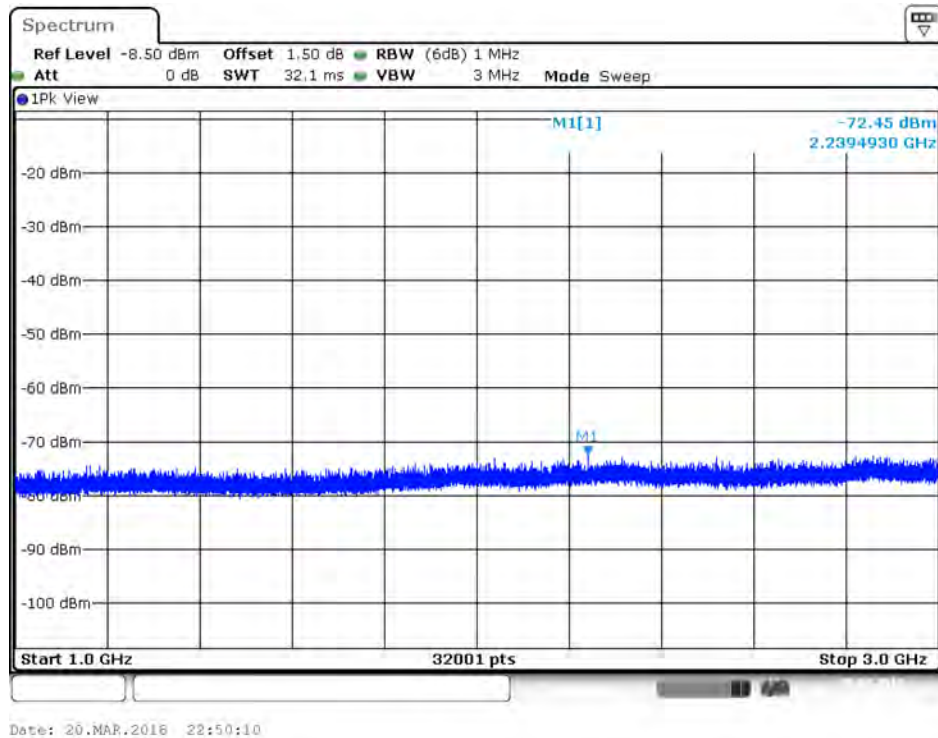
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 2 / 1GHz~3GHz



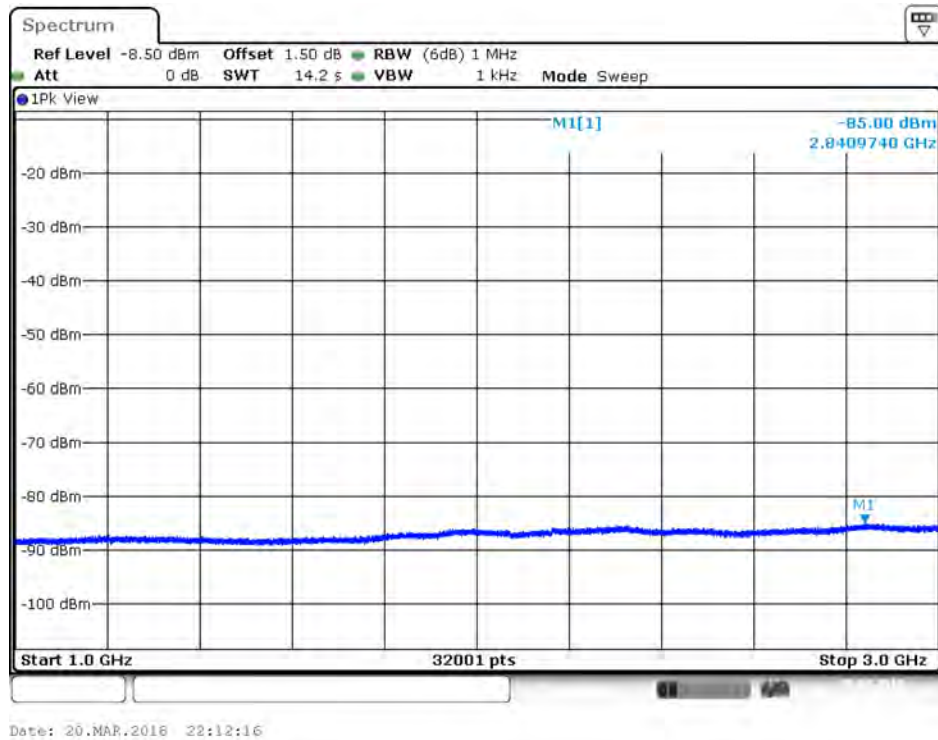
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 1 / 1GHz~3GHz



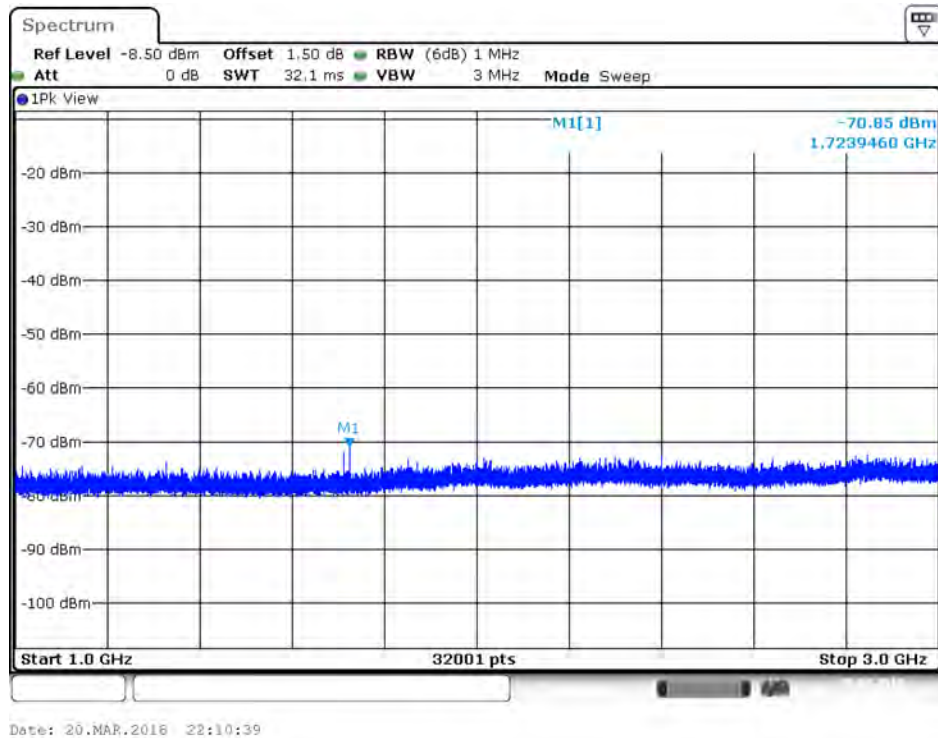
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Peak / Port 1 / 1GHz~3GHz



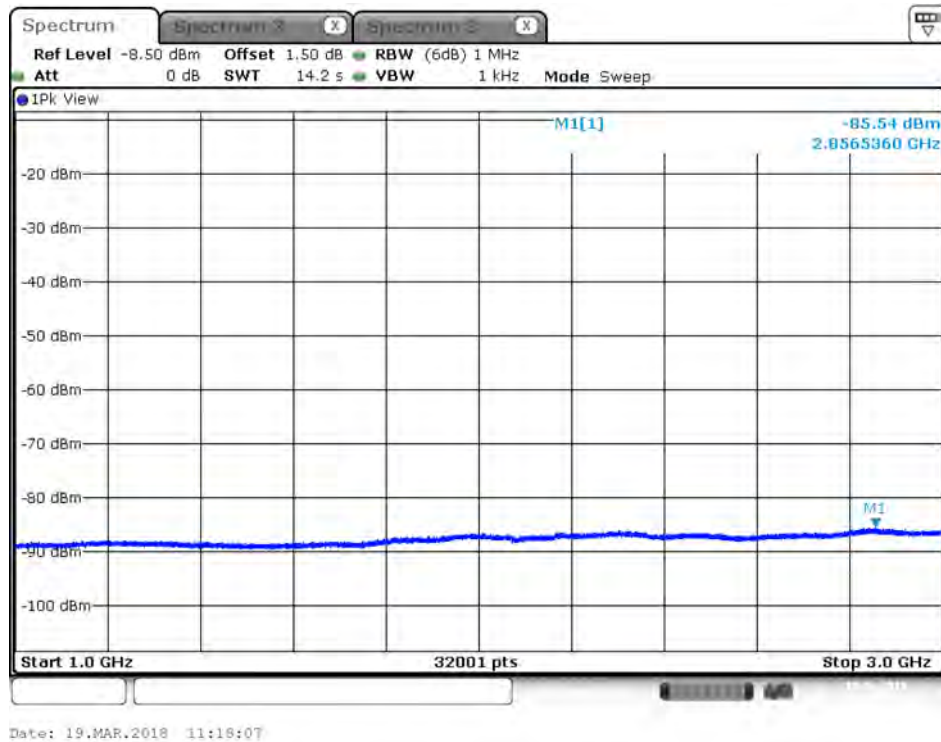
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 2 / 1GHz~3GHz



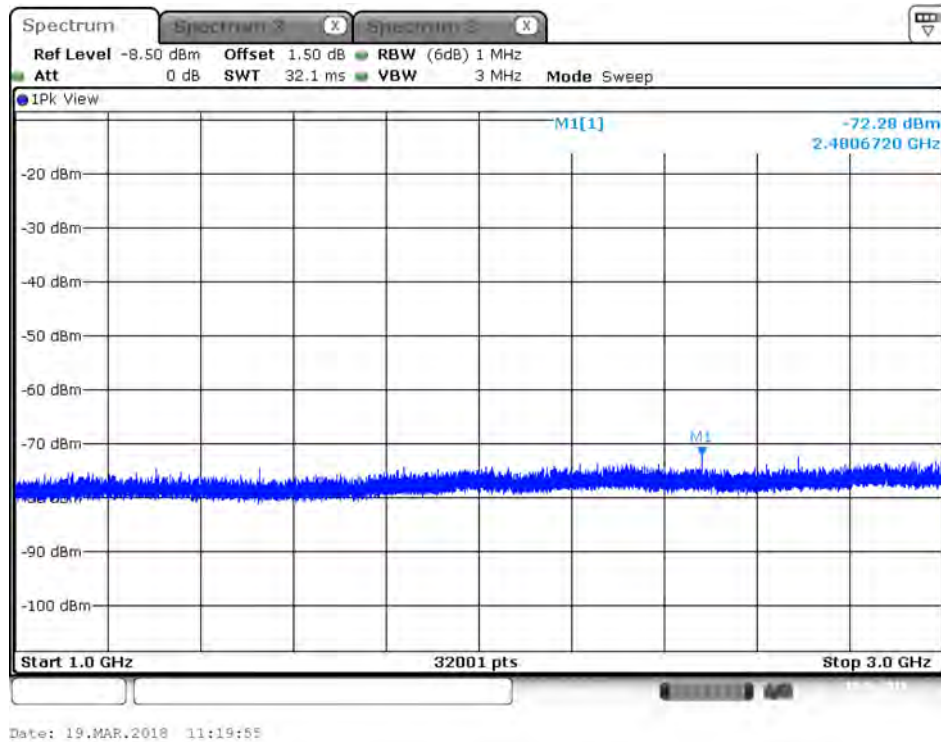
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Peak / Port 2 / 1GHz~3GHz



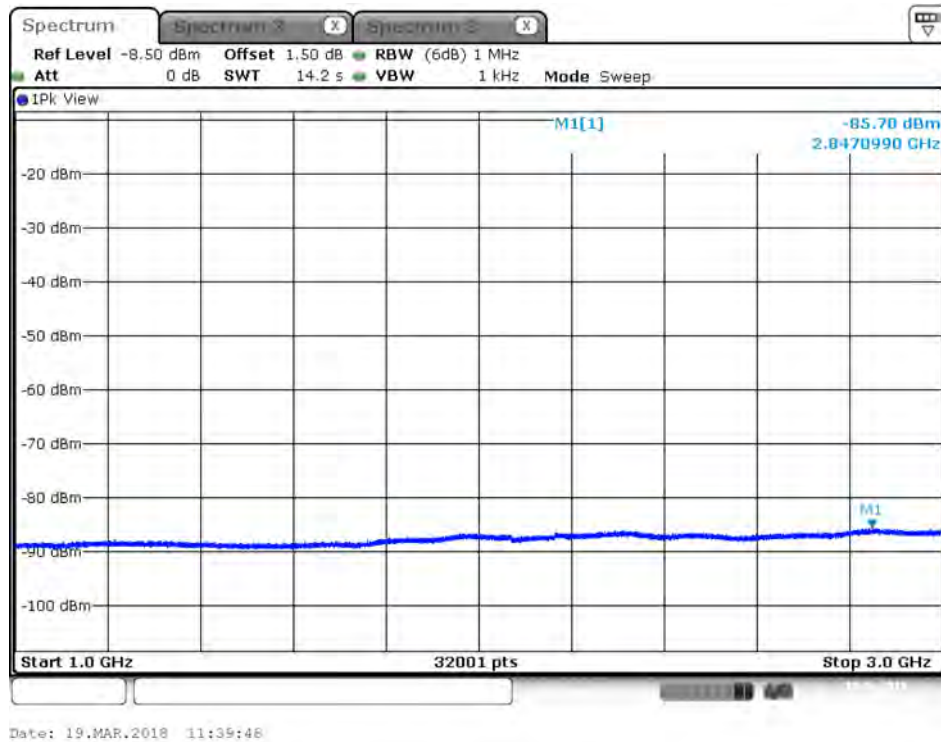
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 1 / 1GHz~3GHz



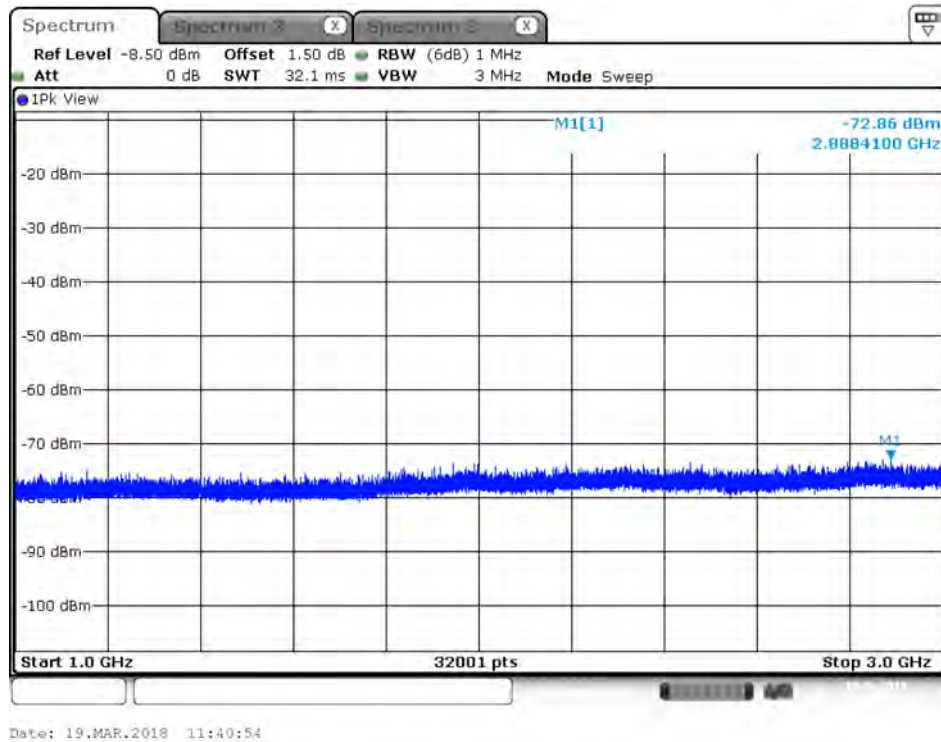
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 1 / 1GHz~3GHz



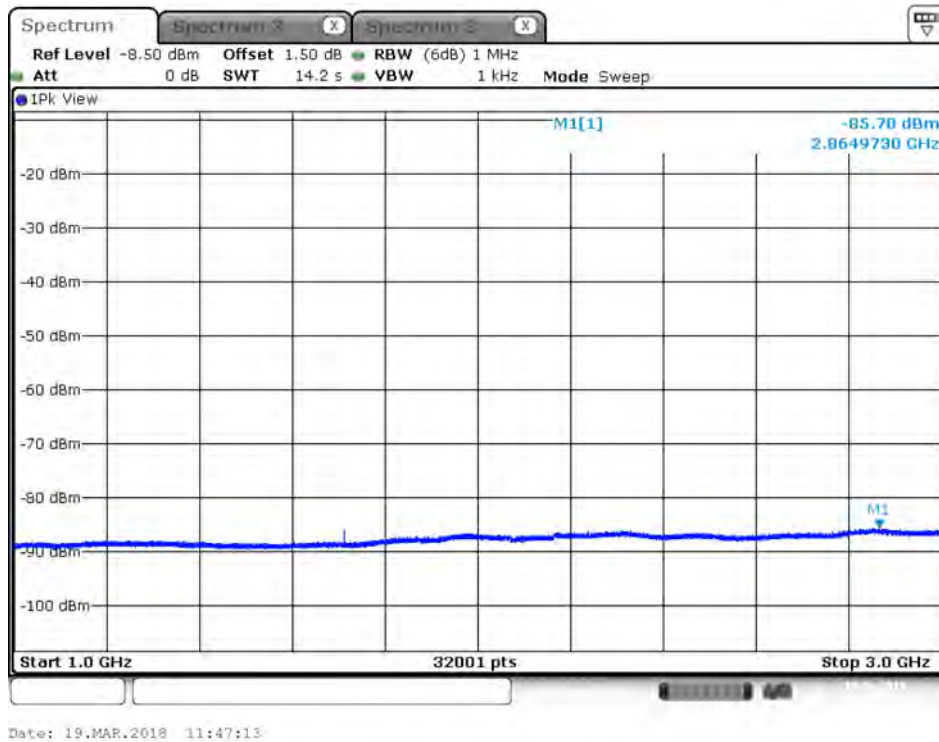
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 2 / 1GHz~3GHz



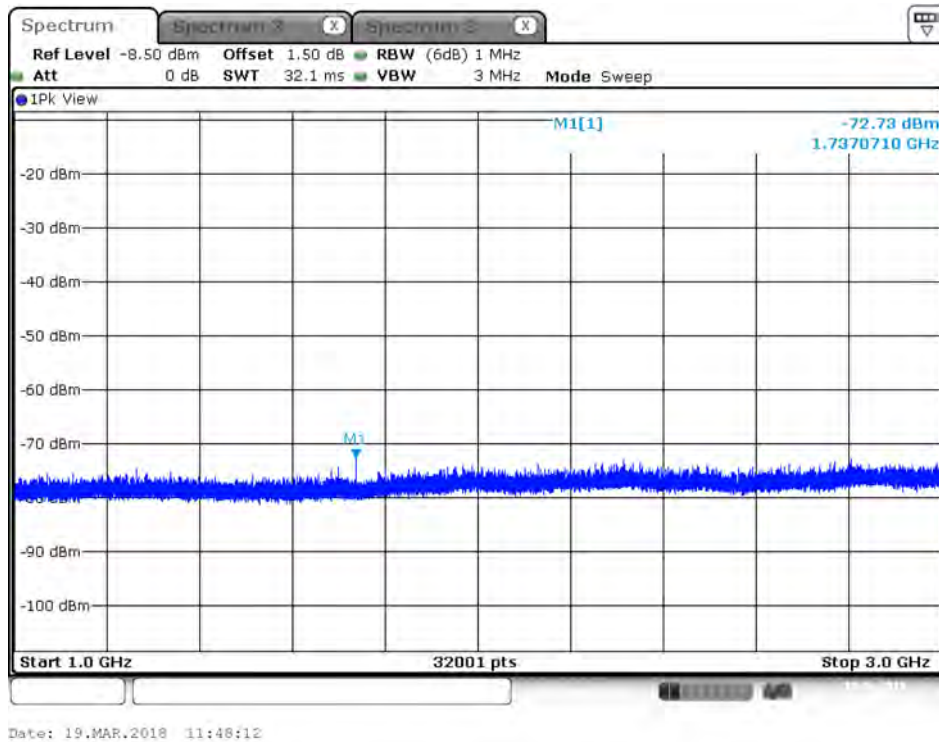
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 2 / 1GHz~3GHz



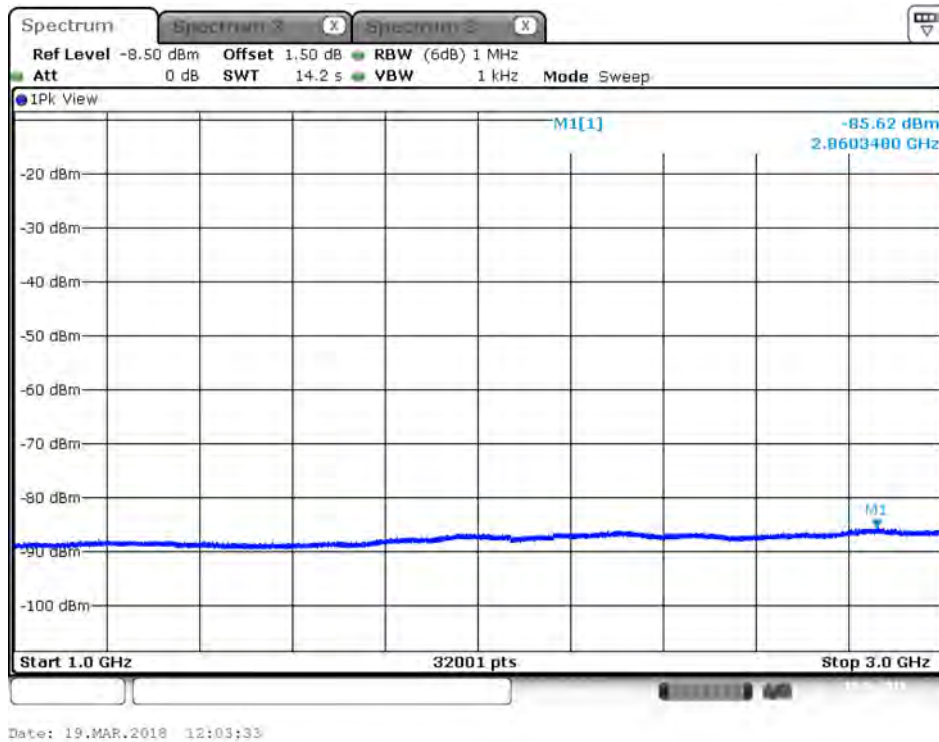
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 1 / 1GHz~3GHz



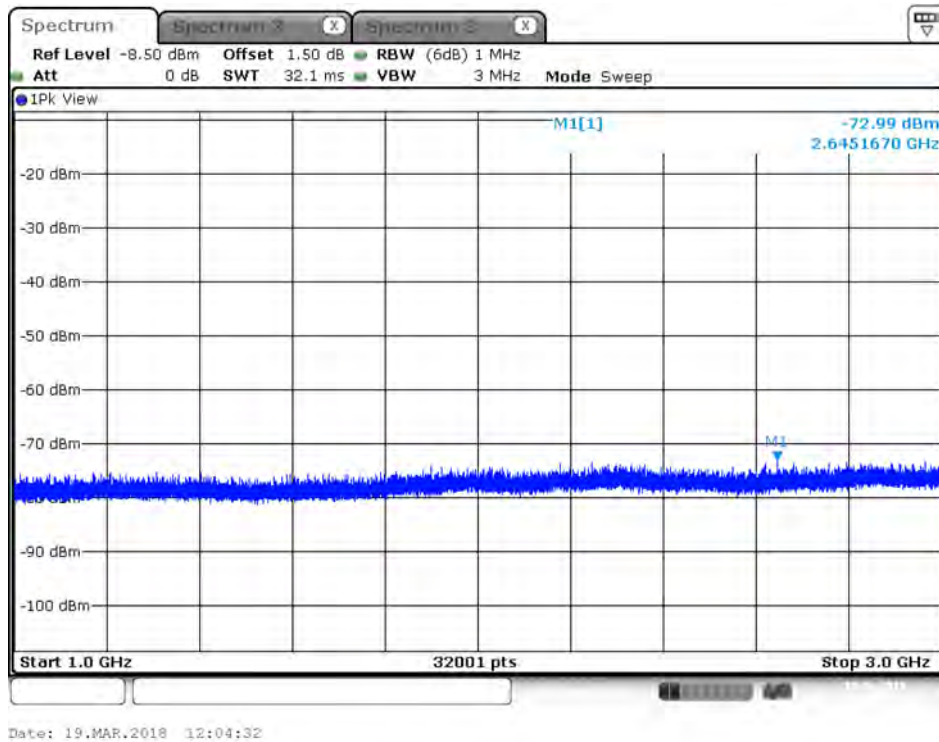
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 1 / 1GHz~3GHz



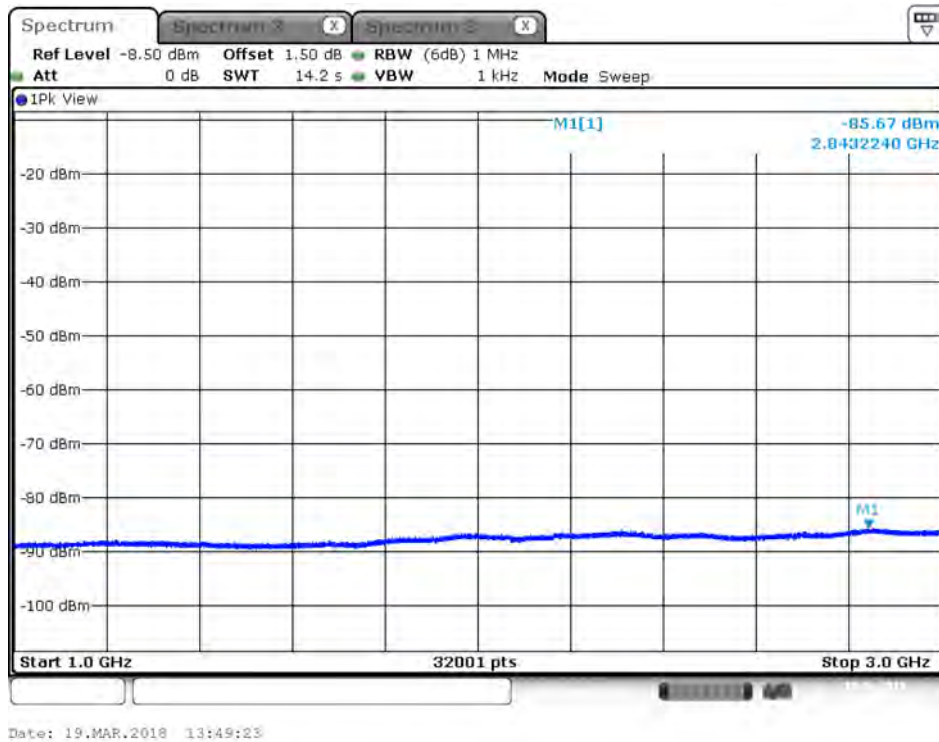
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 2 / 1GHz~3GHz



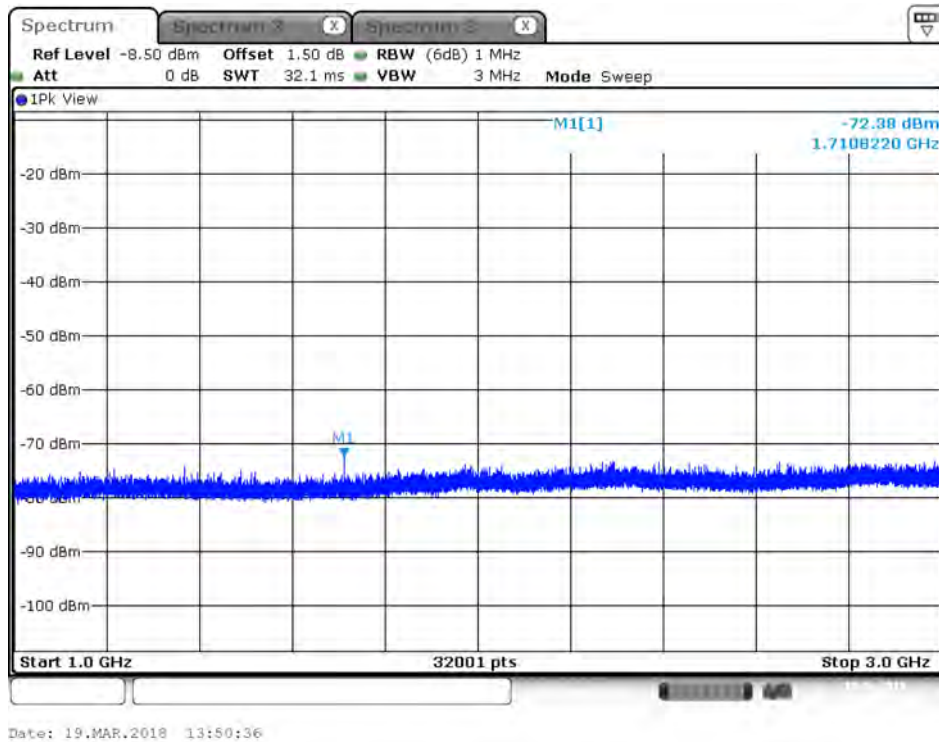
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 2 / 1GHz~3GHz



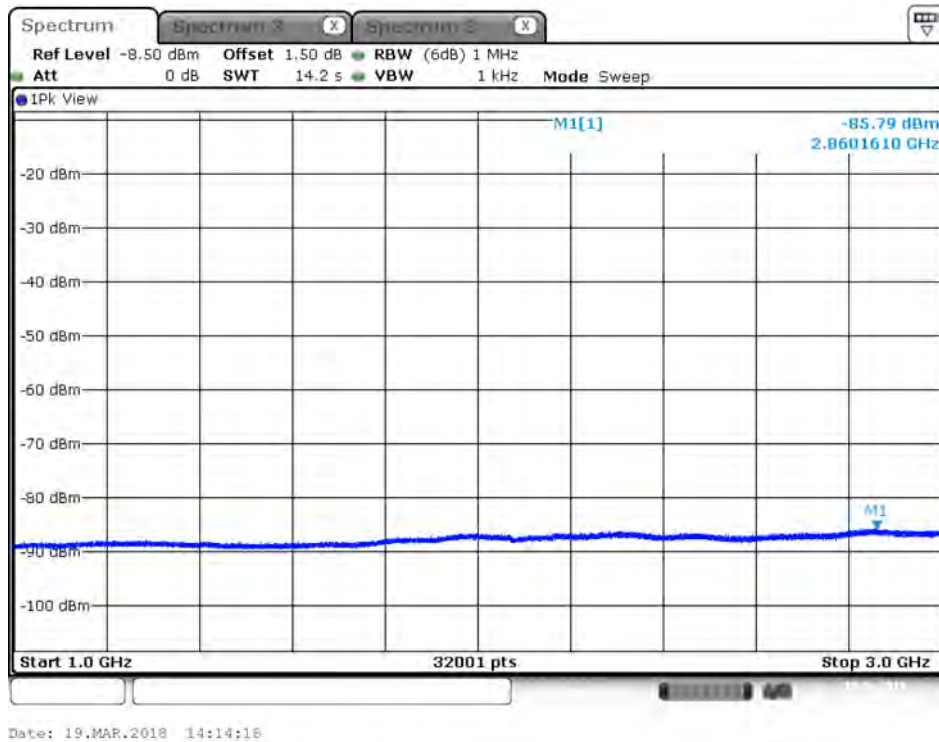
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 1 / 1GHz~3GHz



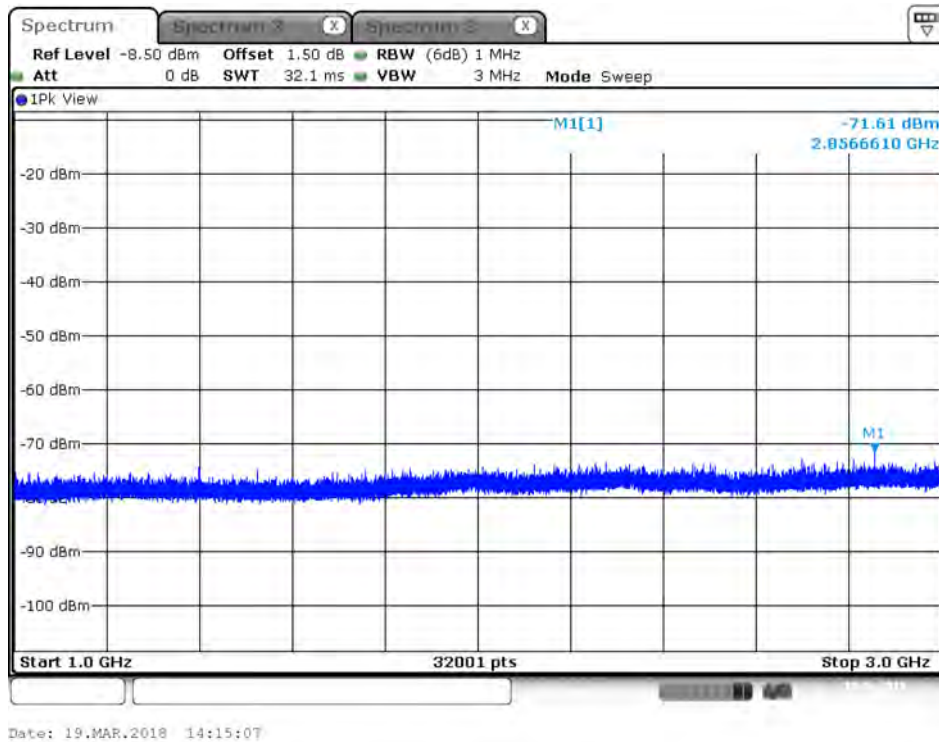
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 1 / 1GHz~3GHz



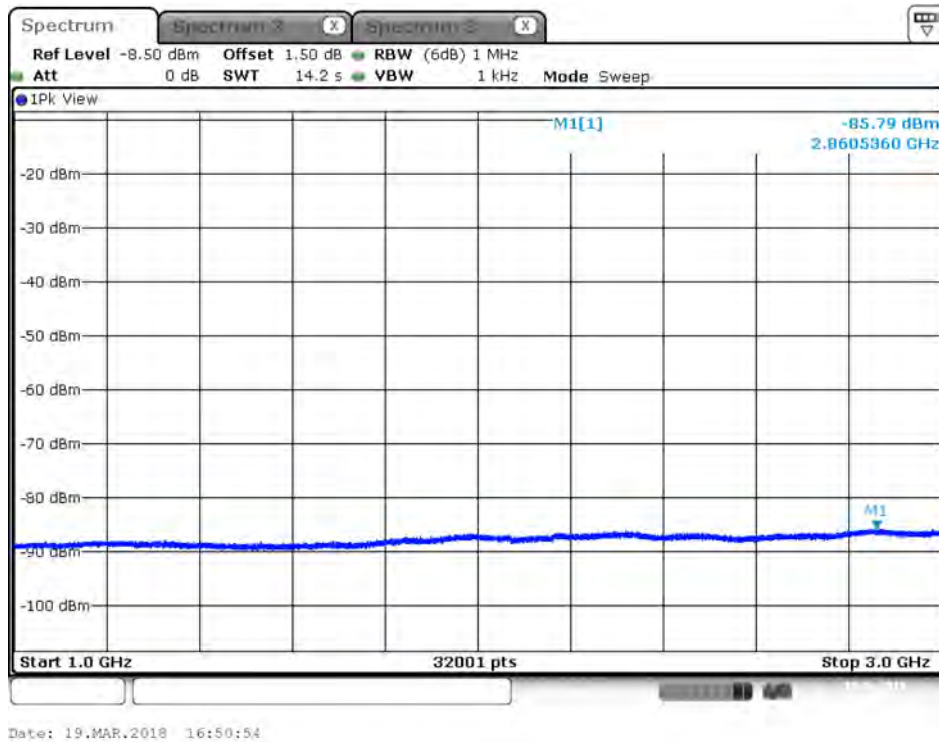
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 2 / 1GHz~3GHz



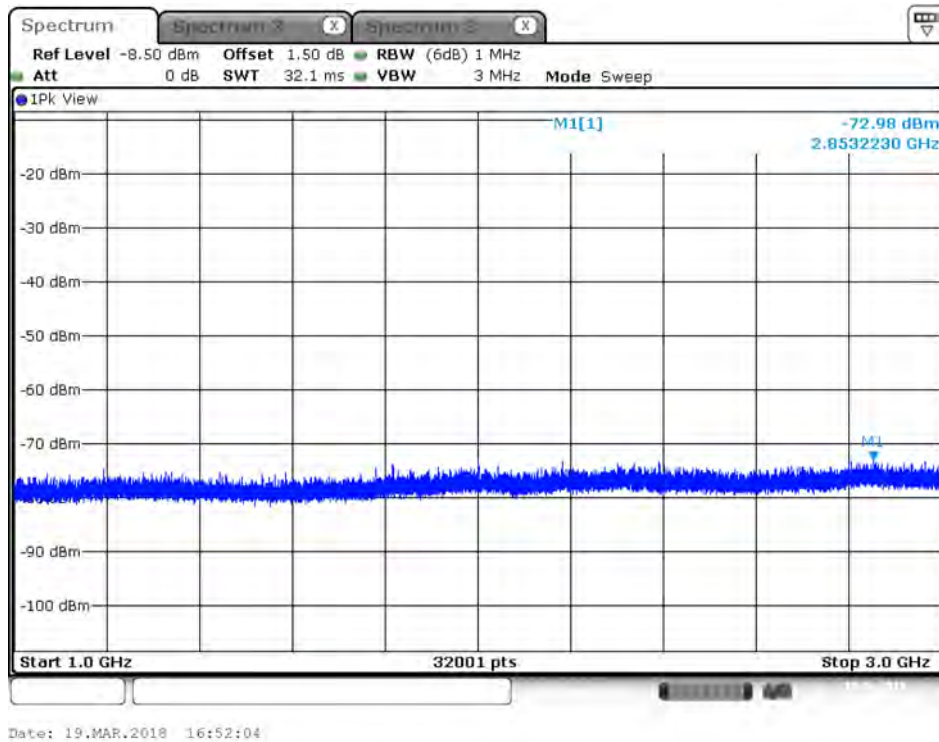
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 2 / 1GHz~3GHz



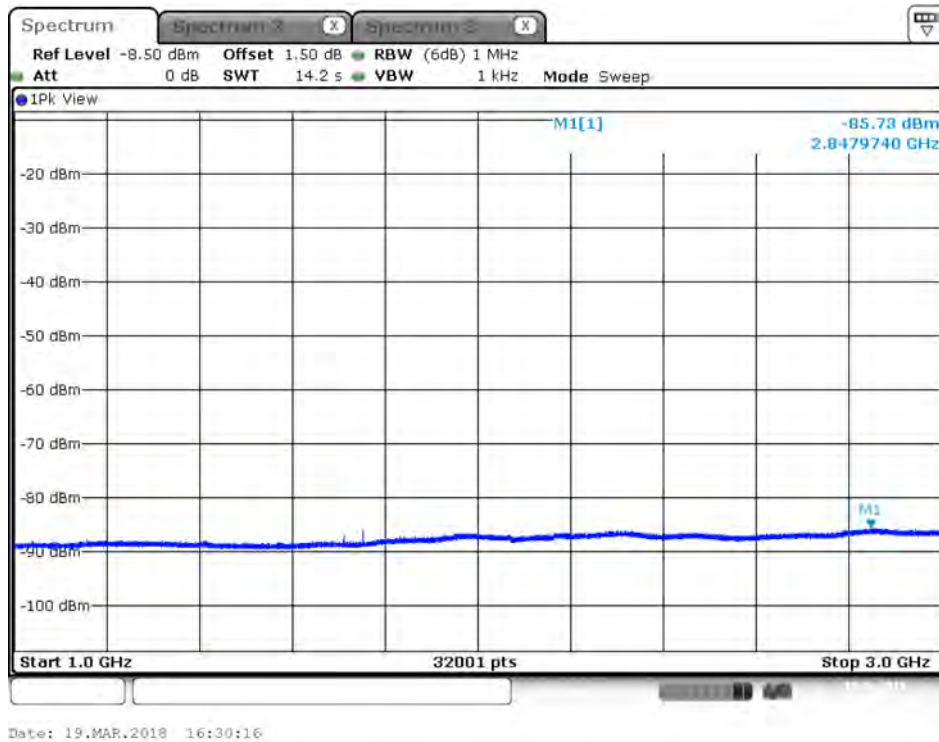
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 1 / 1GHz~3GHz



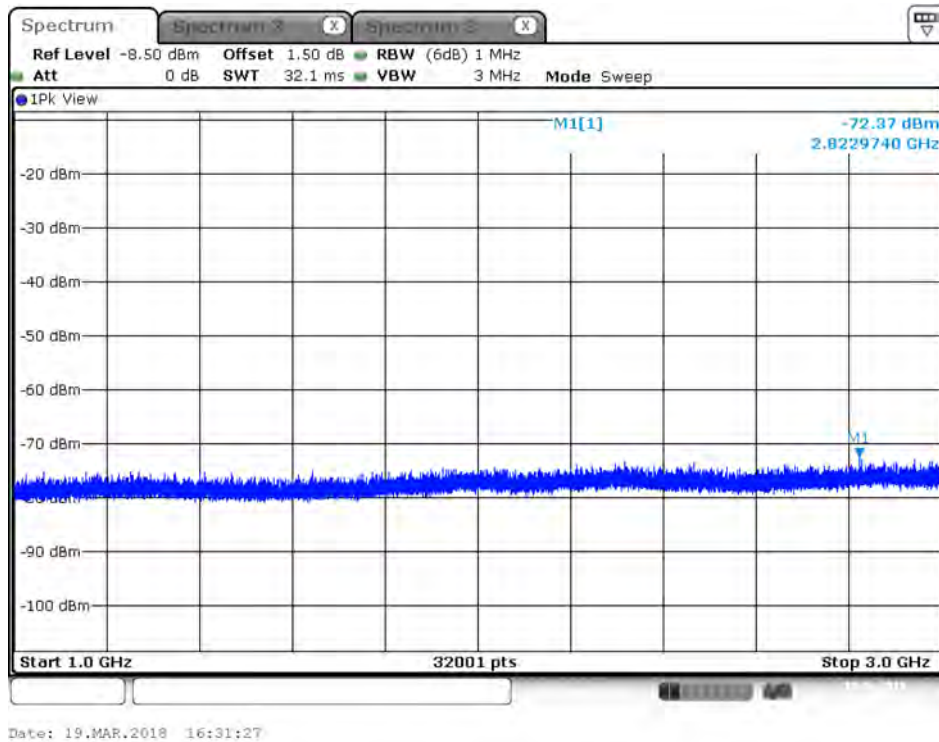
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 1 / 1GHz~3GHz



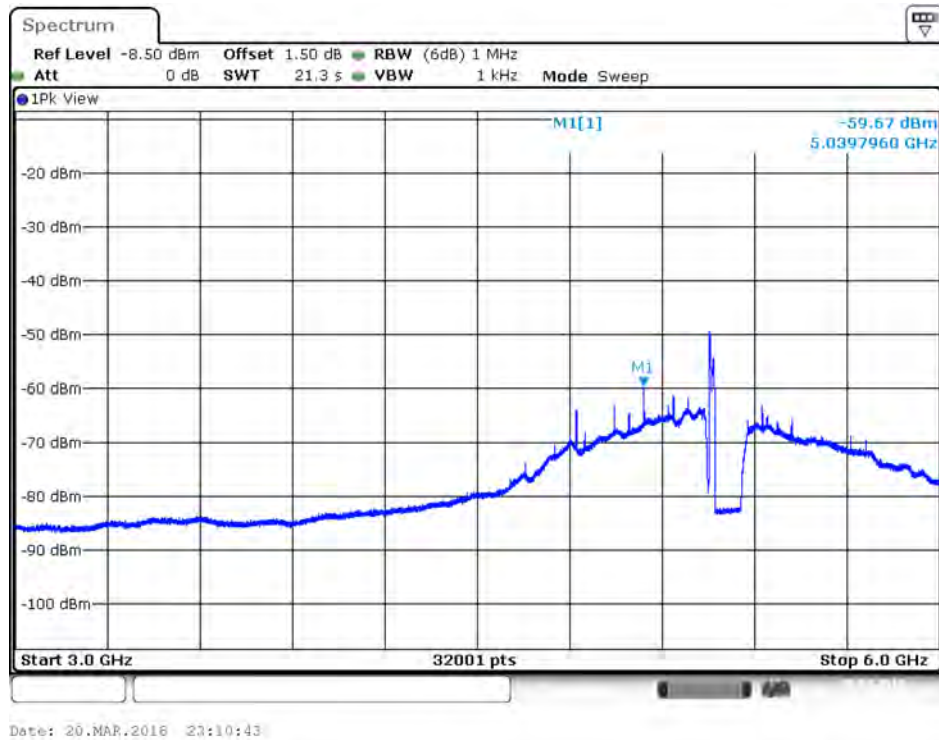
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 2 / 1GHz~3GHz



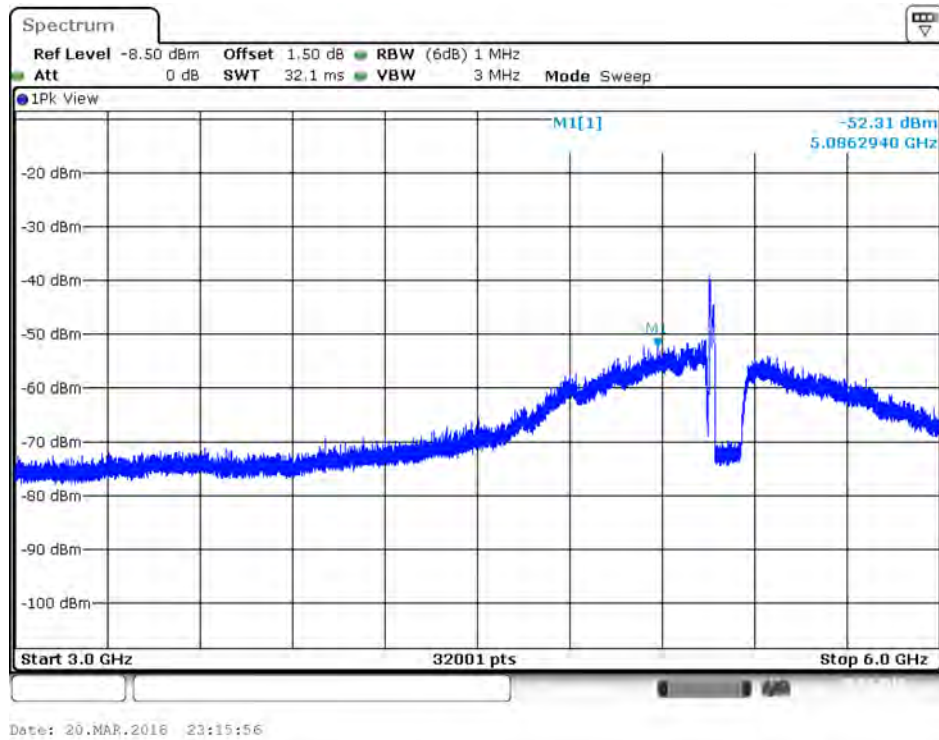
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 2 / 1GHz~3GHz



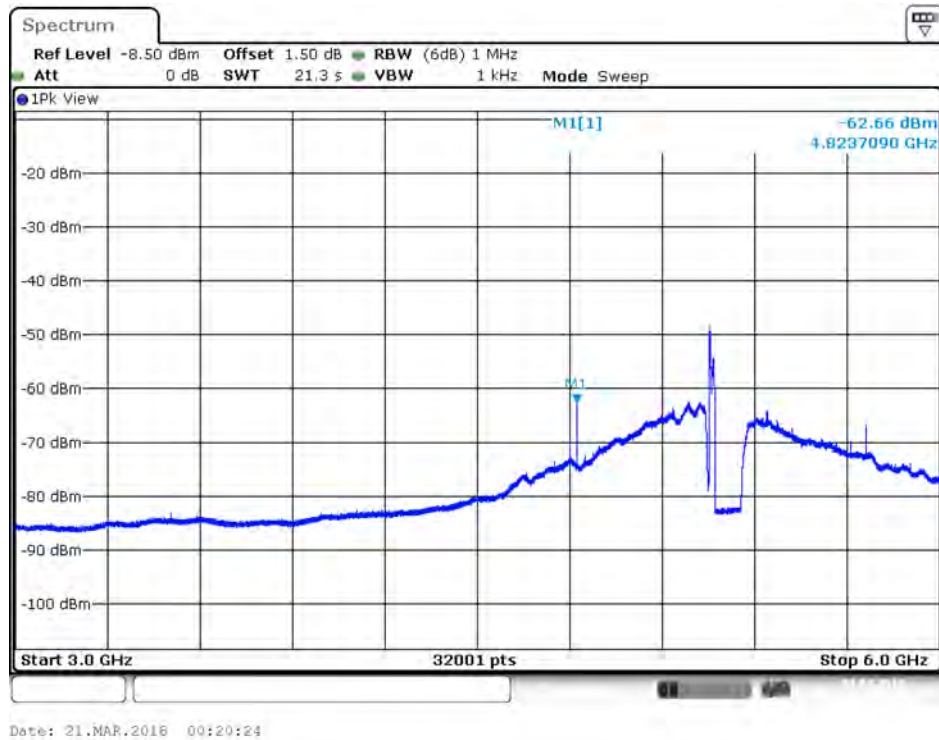
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 1 / 3GHz~6GHz



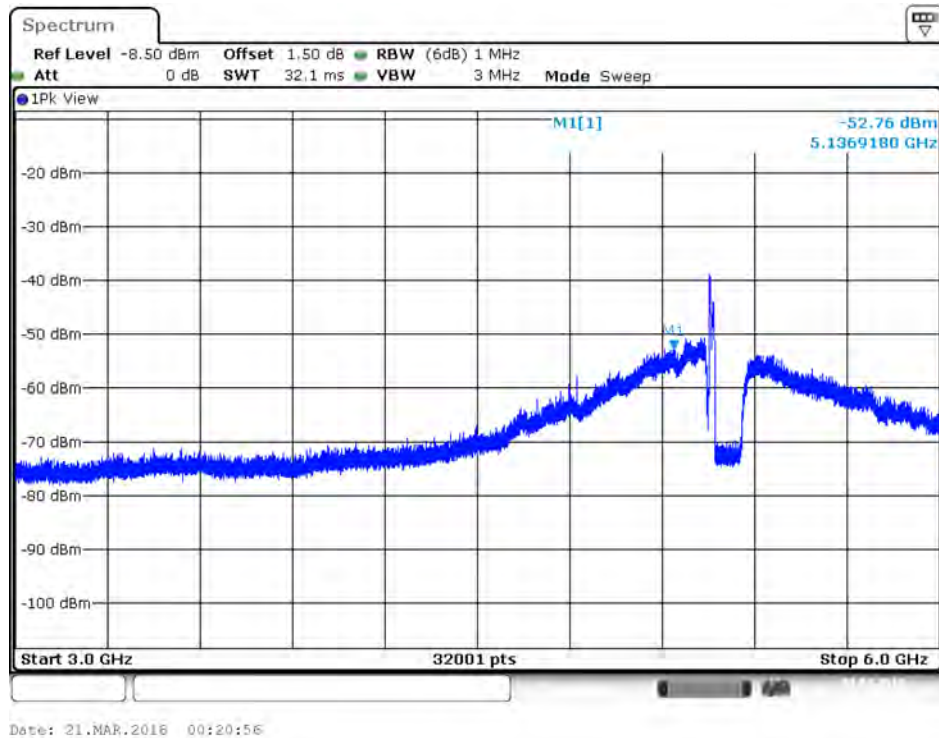
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 1 / 3GHz~6GHz



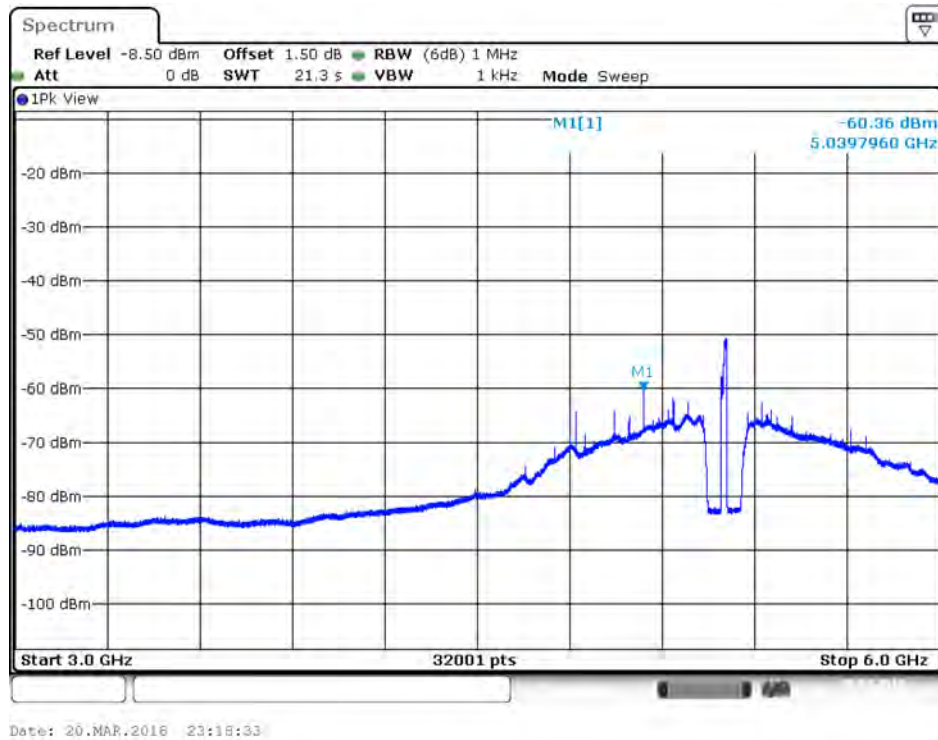
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 2 / 3GHz~6GHz



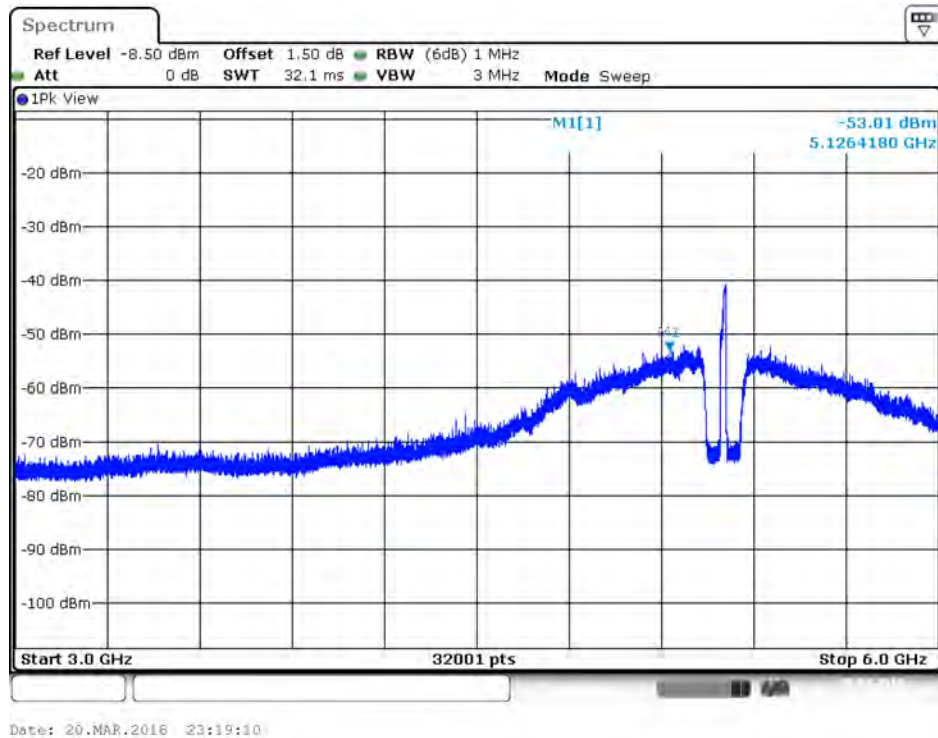
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 2 / 3GHz~6GHz



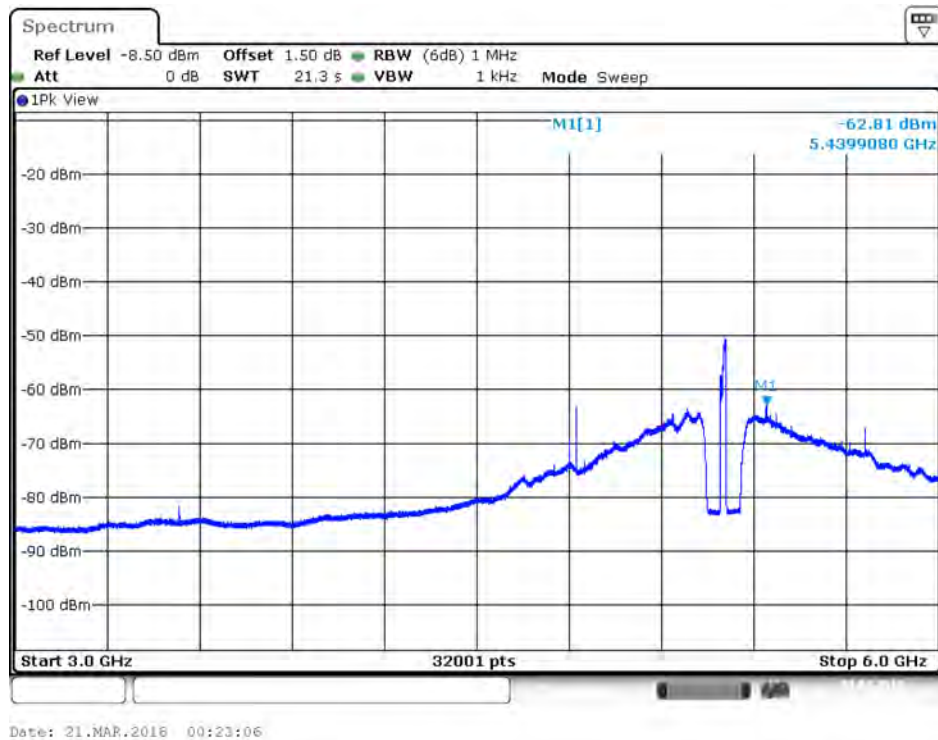
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 1 / 3GHz~6GHz



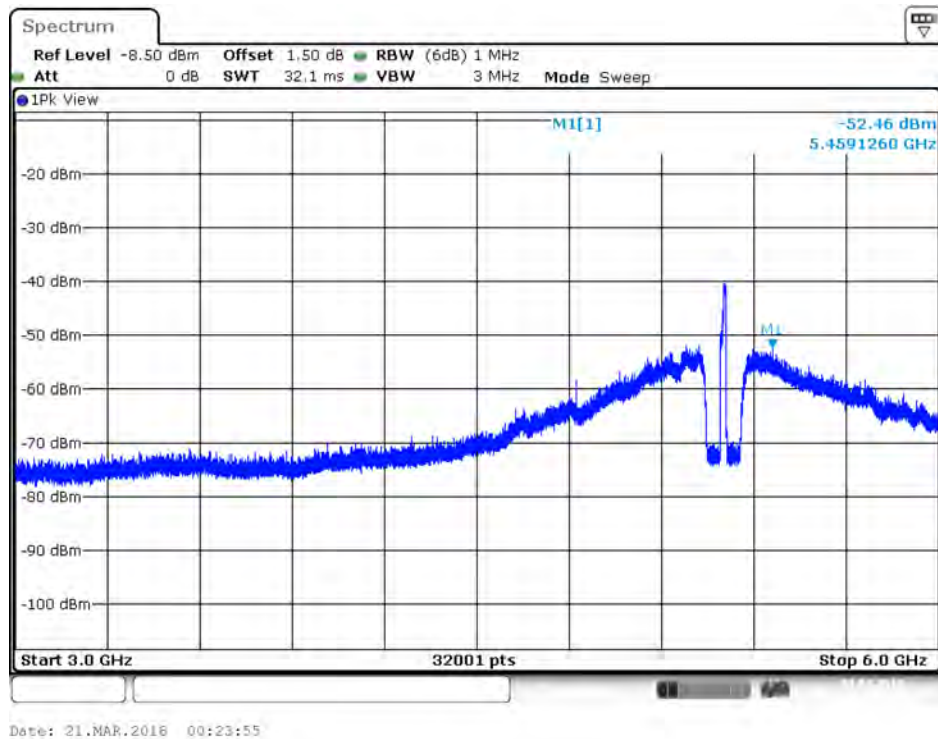
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 1 / 3GHz~6GHz



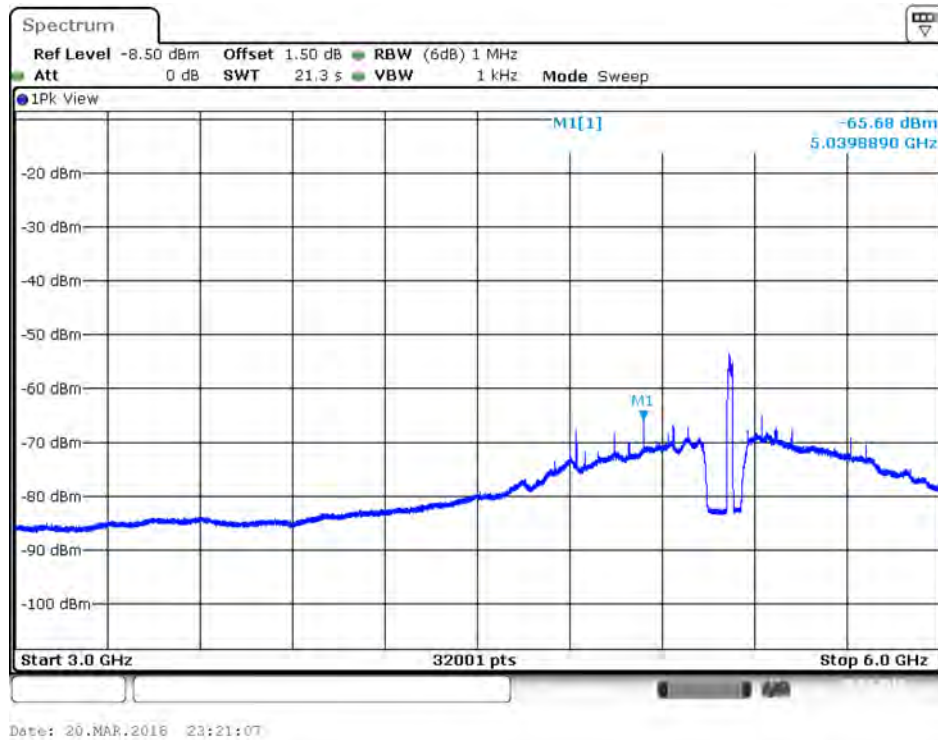
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 2 / 3GHz~6GHz



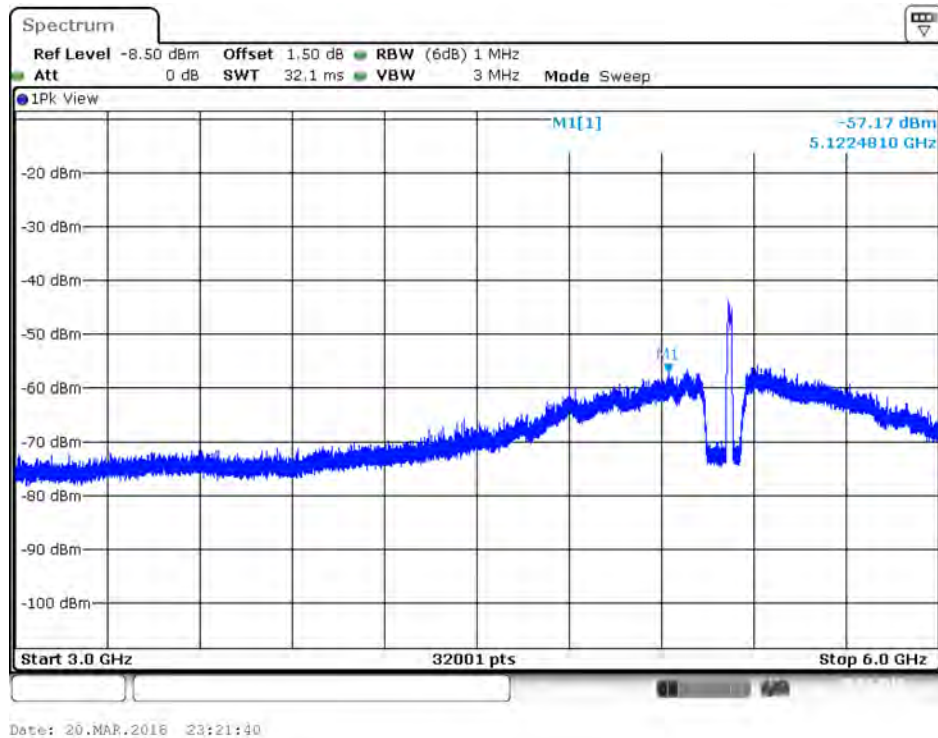
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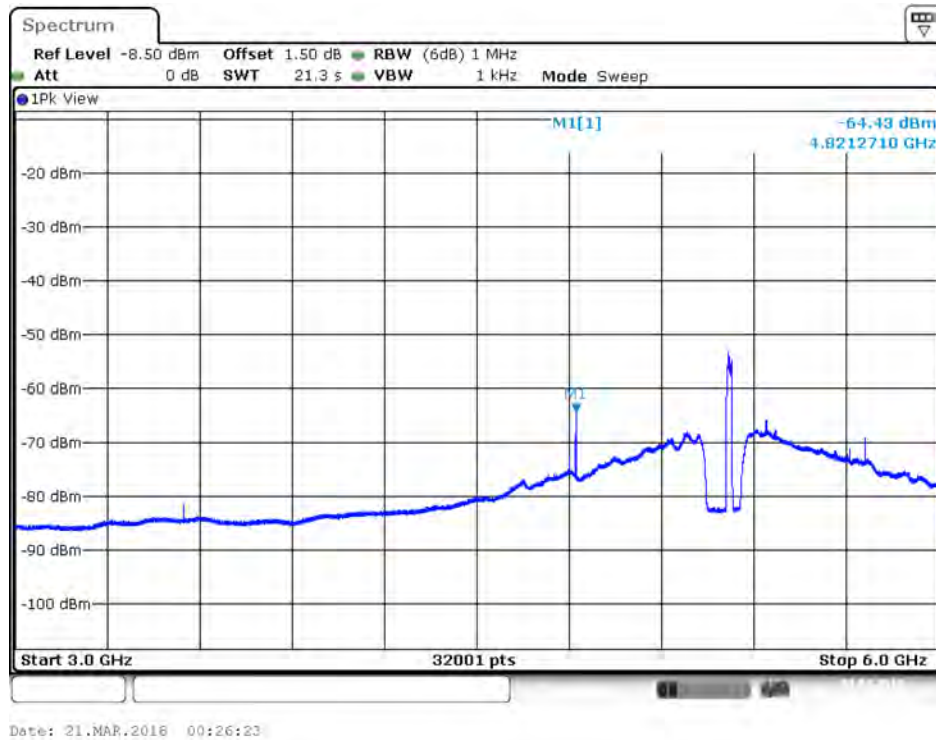
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 1 / 3GHz~6GHz



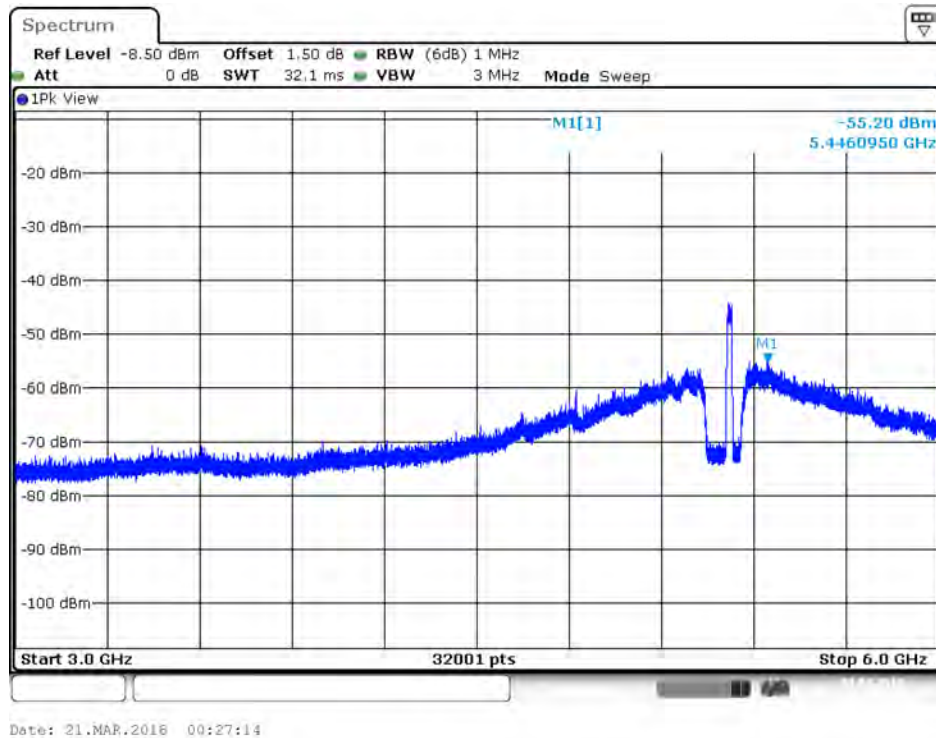
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Peak / Port 1 / 3GHz~6GHz



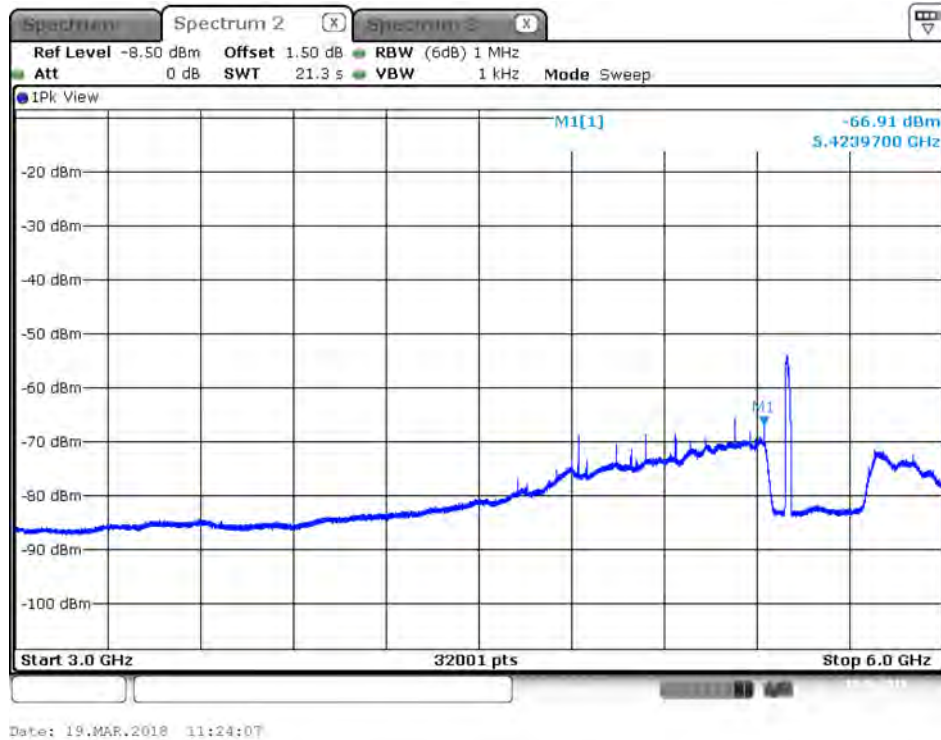
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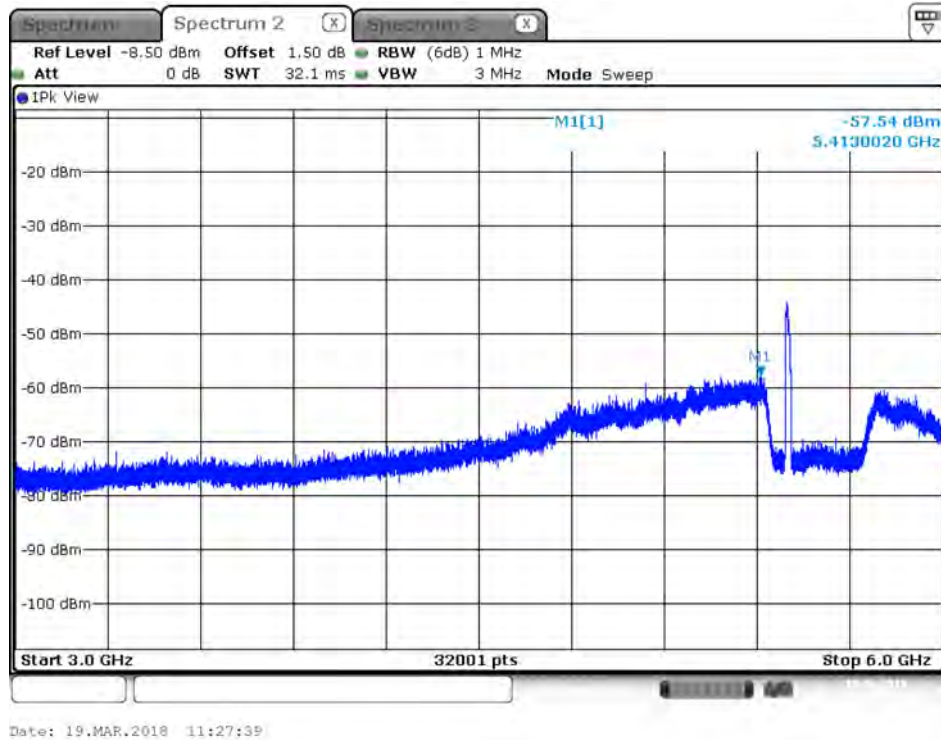
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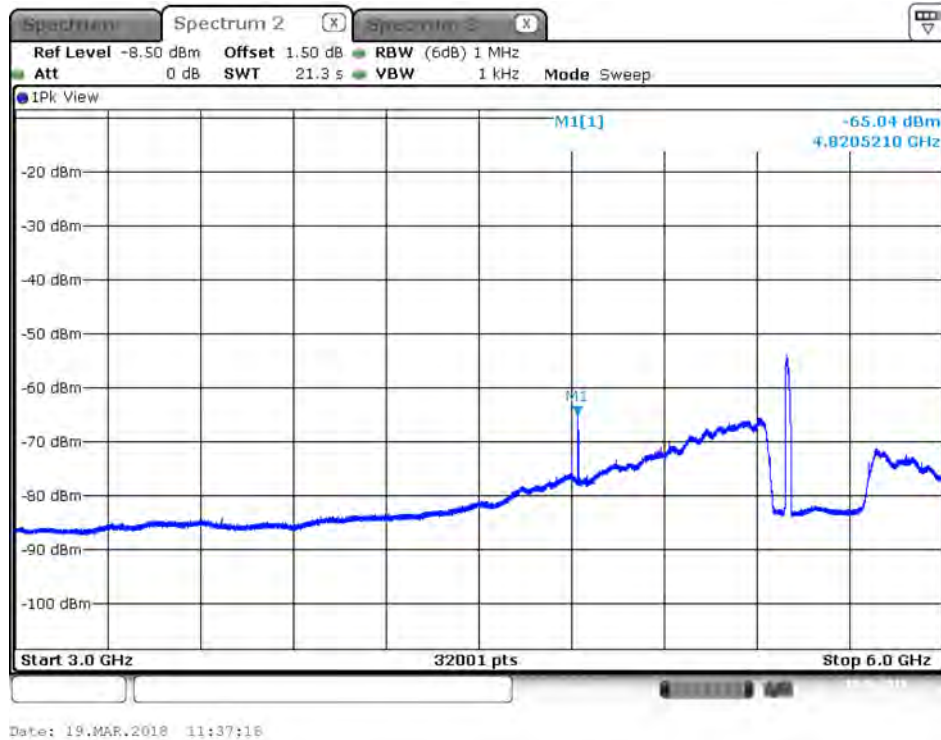
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 1 / 3GHz~6GHz



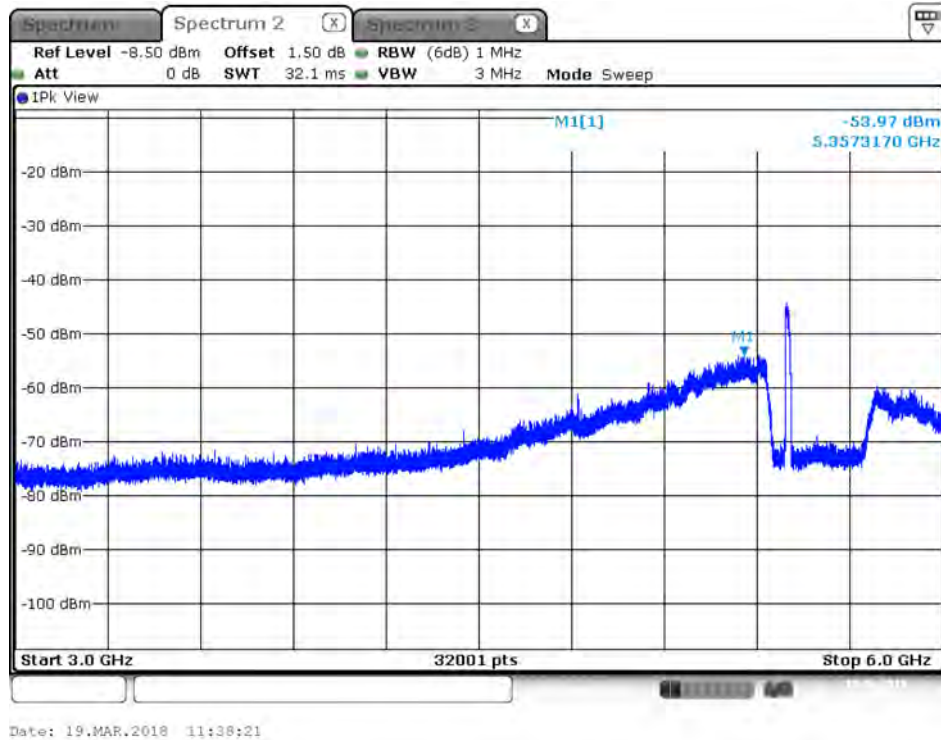
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 1 / 3GHz~6GHz



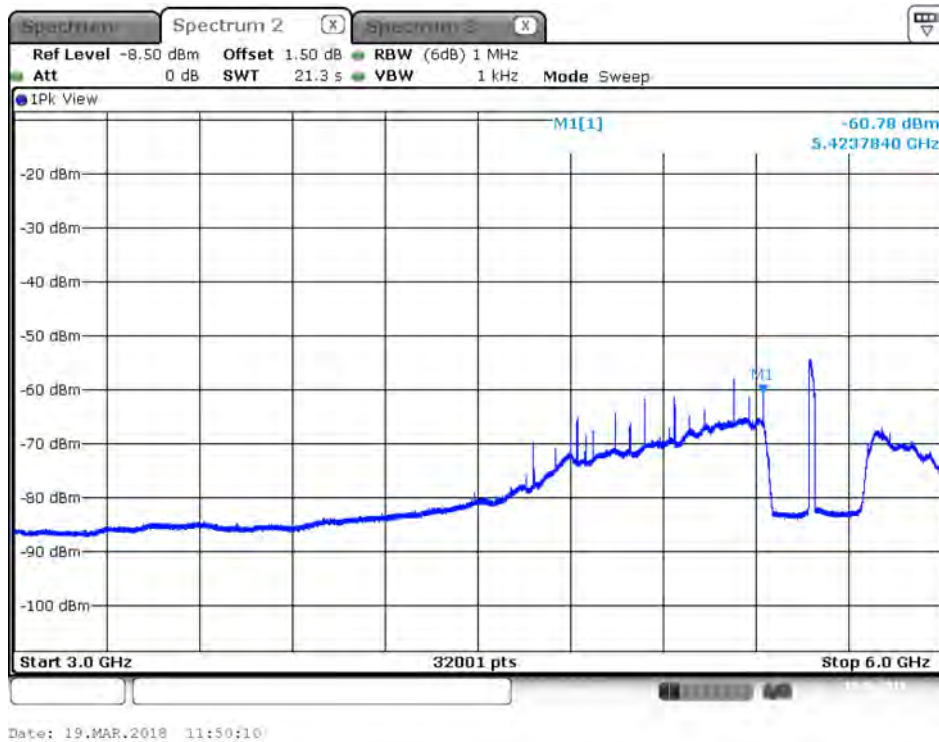
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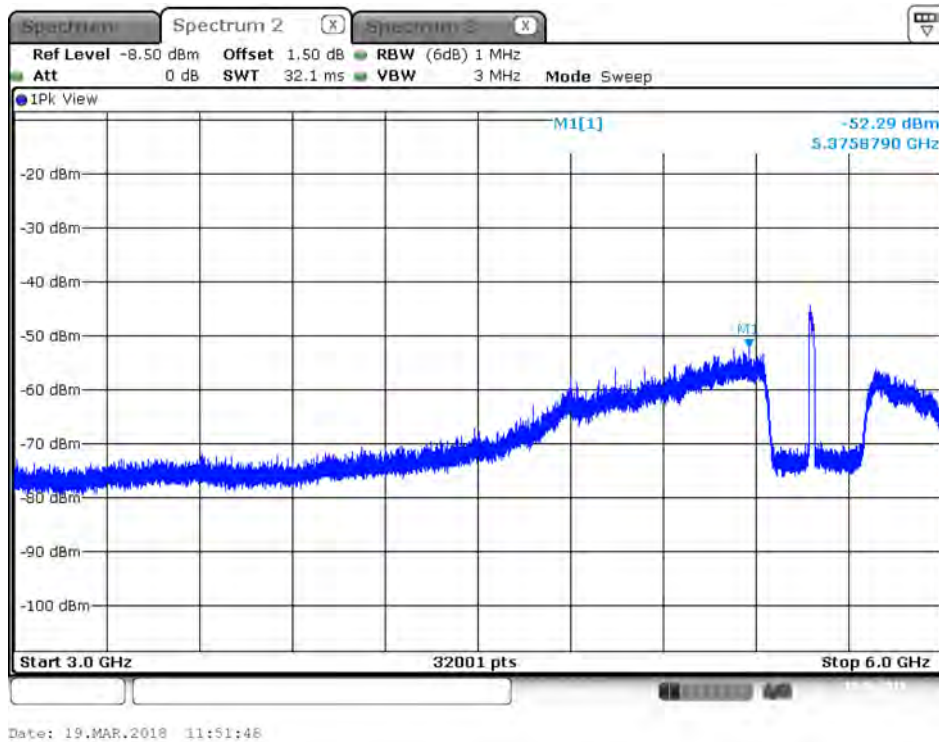
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 2 / 3GHz~6GHz



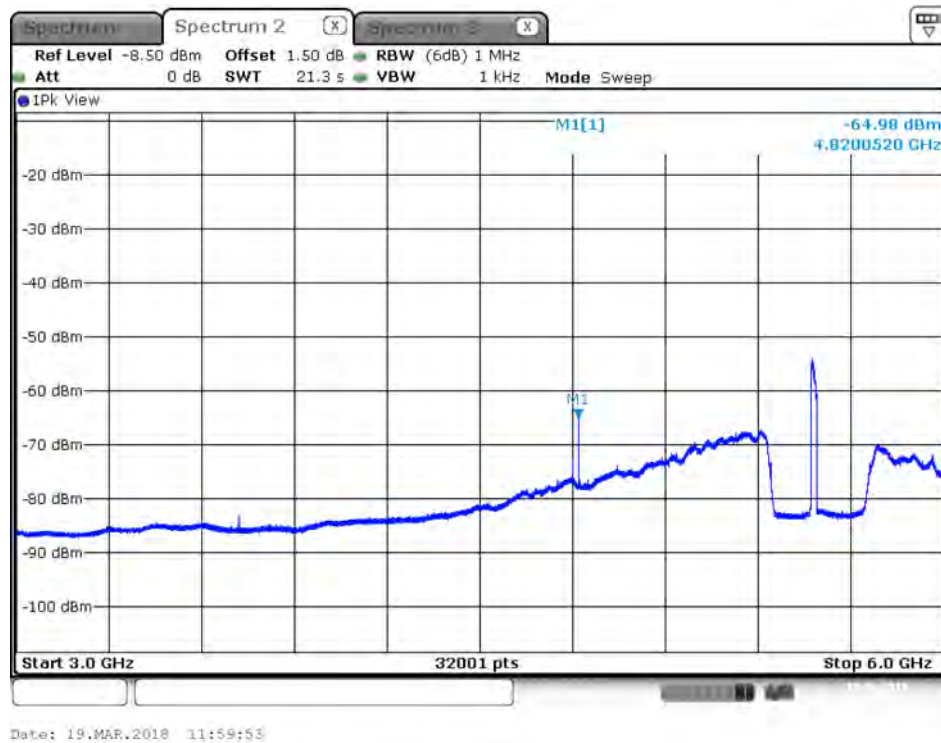
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 1 / 3GHz~6GHz



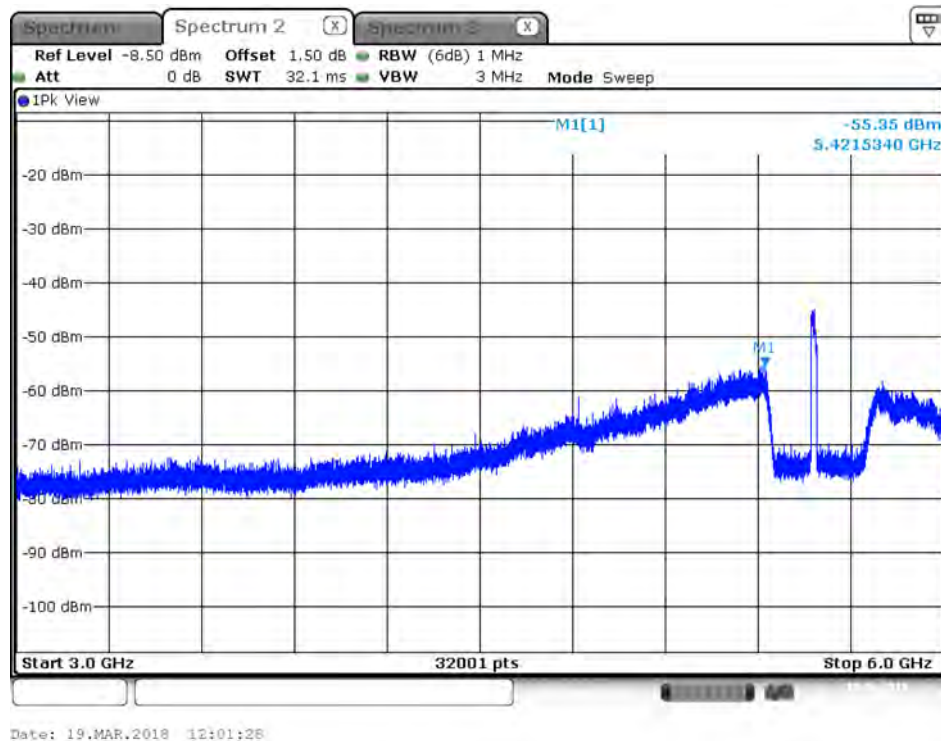
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 1 / 3GHz~6GHz



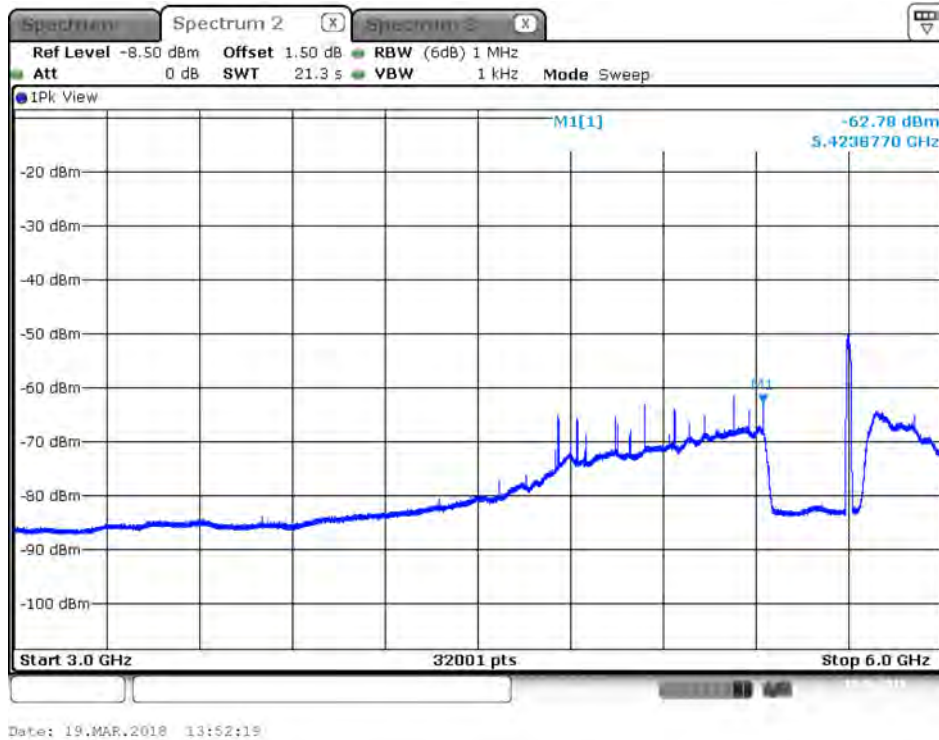
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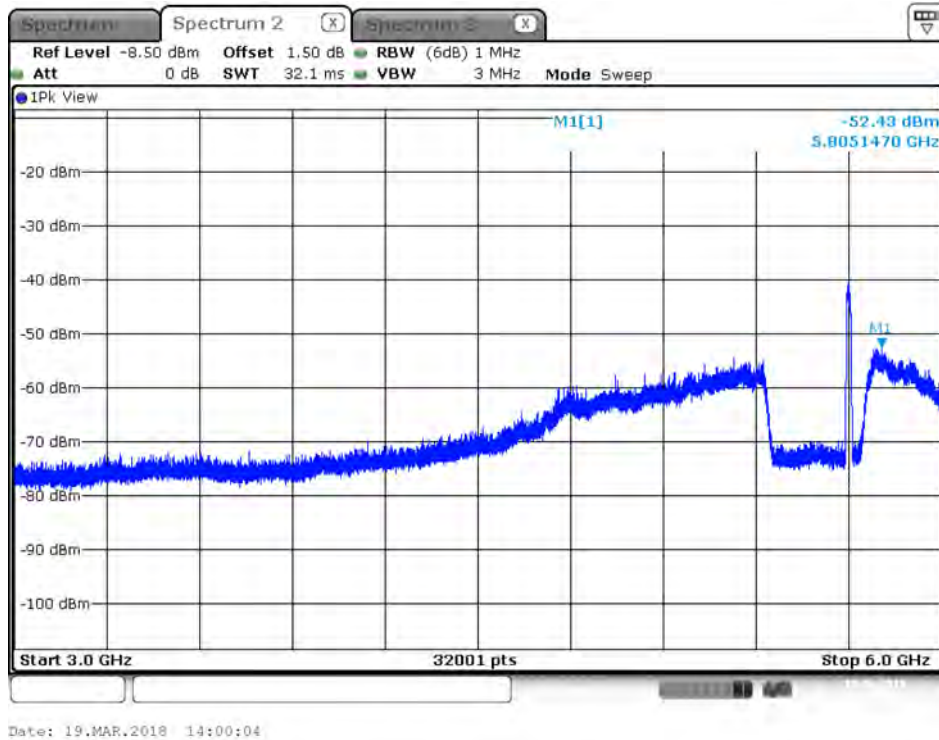
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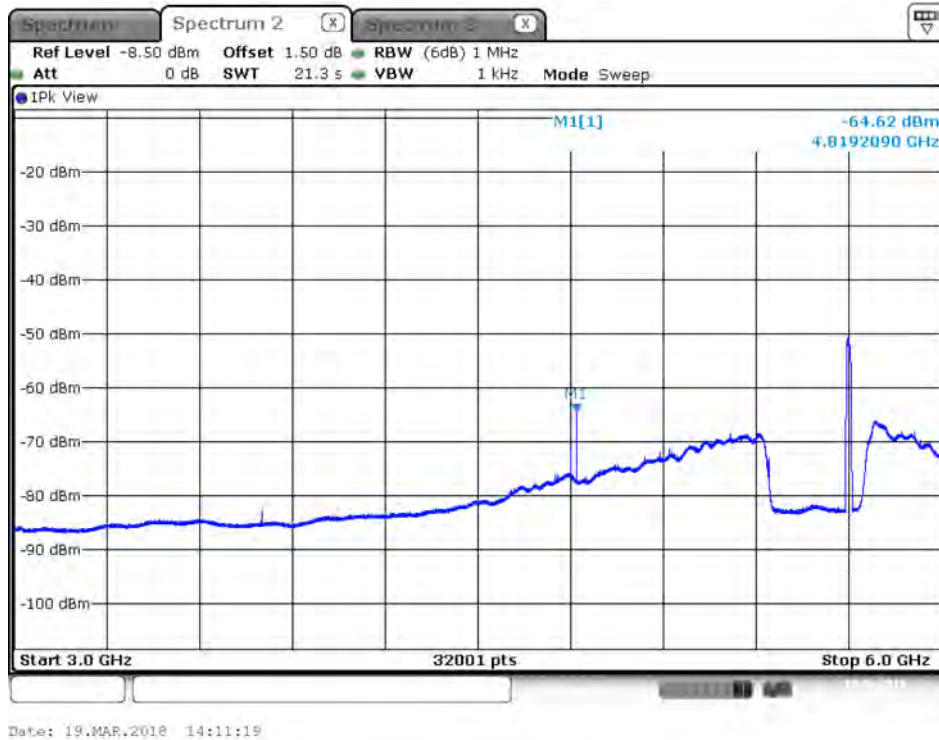
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 1 / 3GHz~6GHz



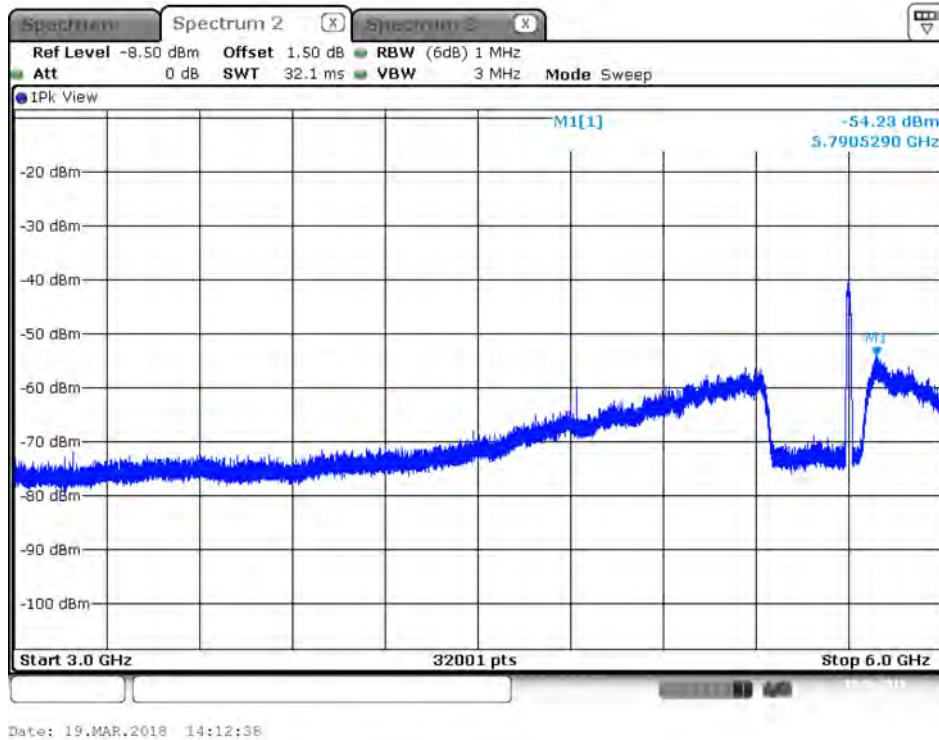
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 1 / 3GHz~6GHz



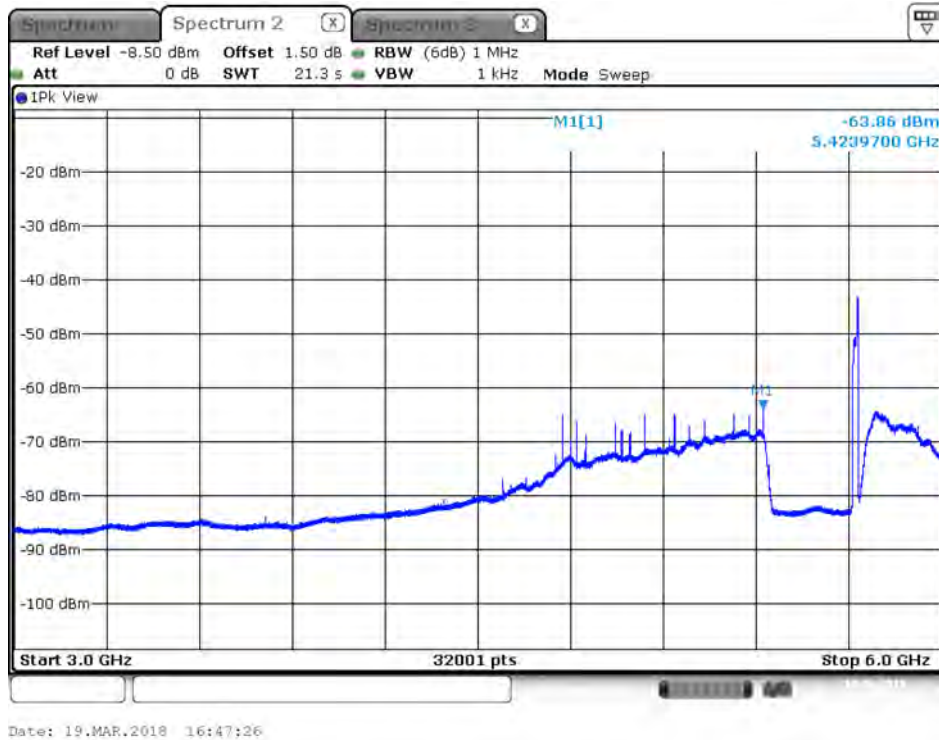
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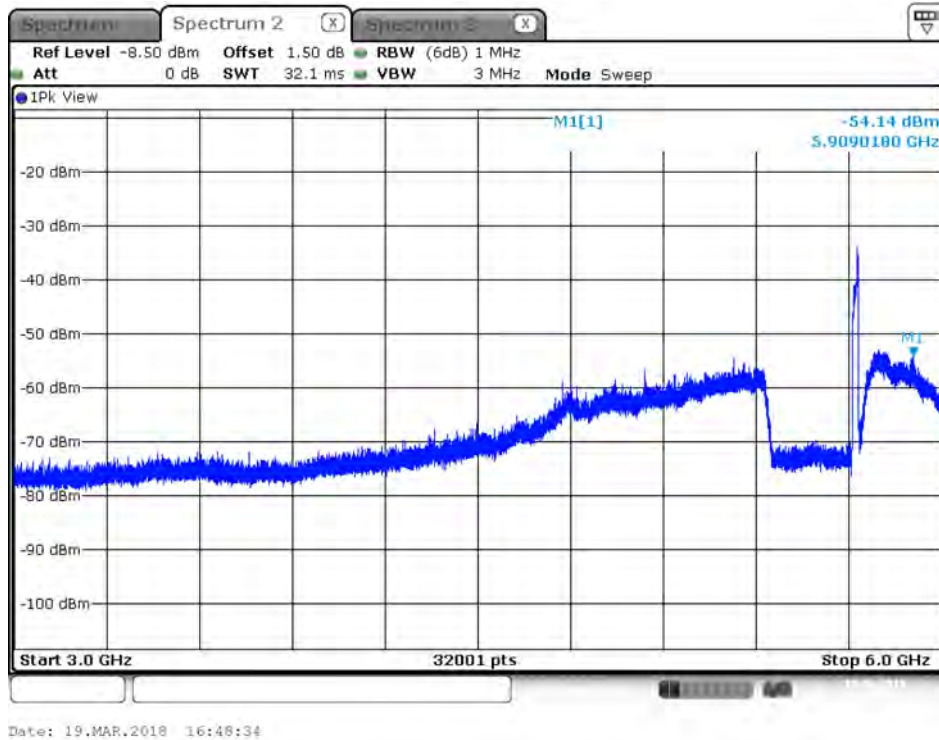
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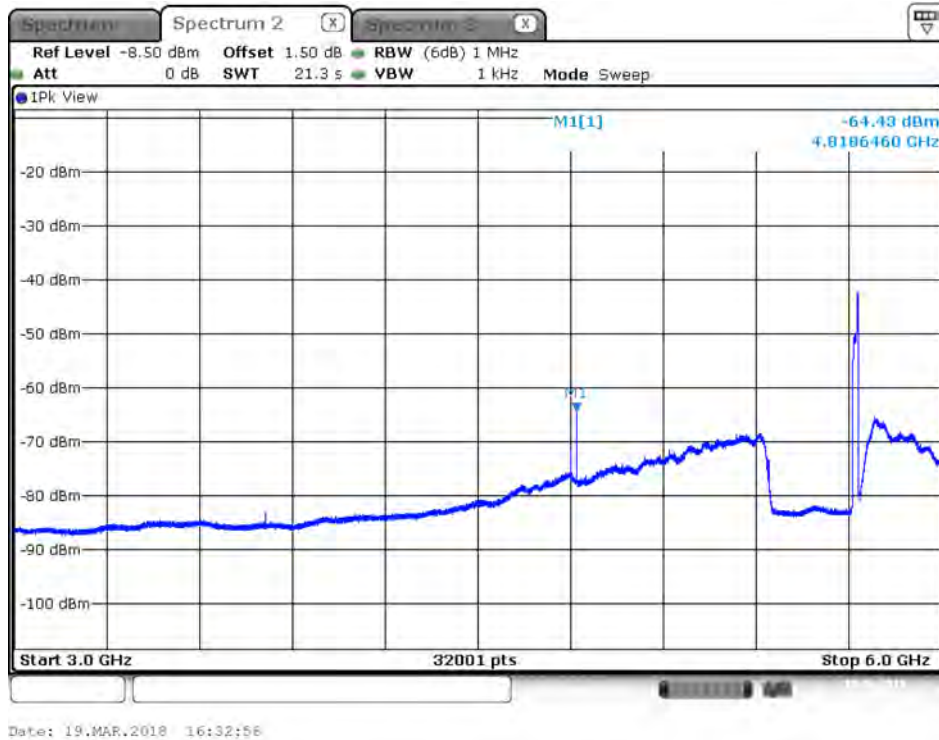
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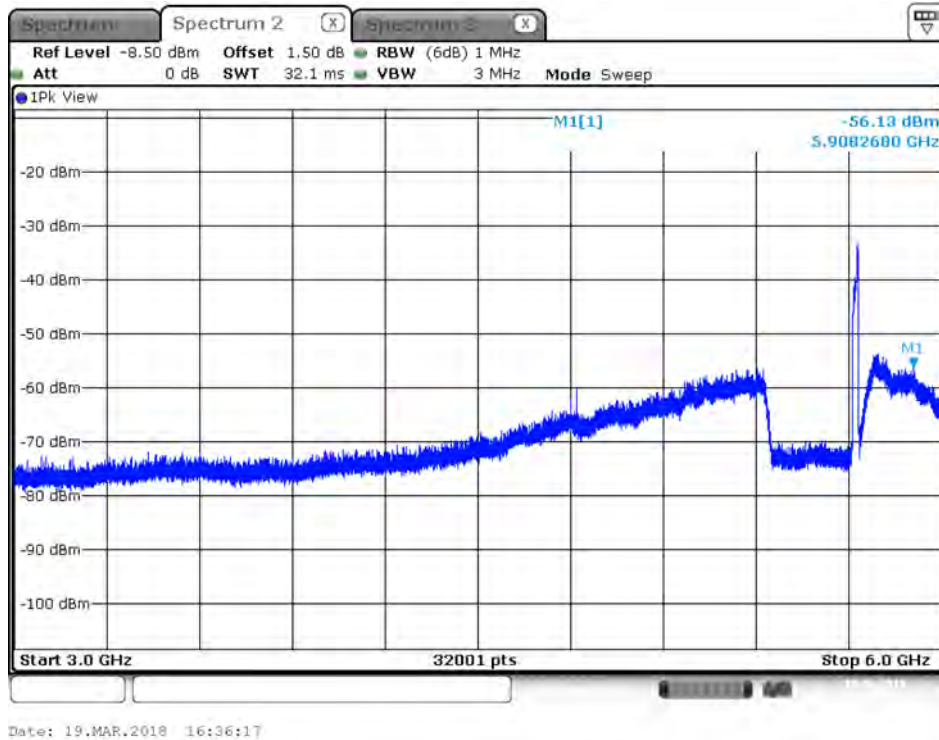
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 1 / 3GHz~6GHz



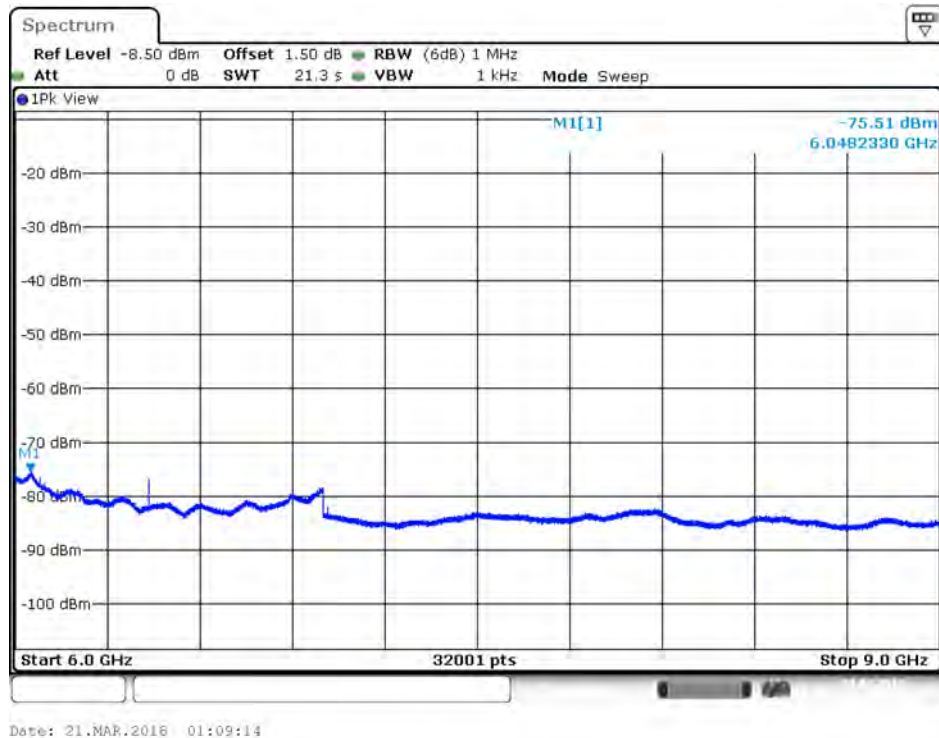
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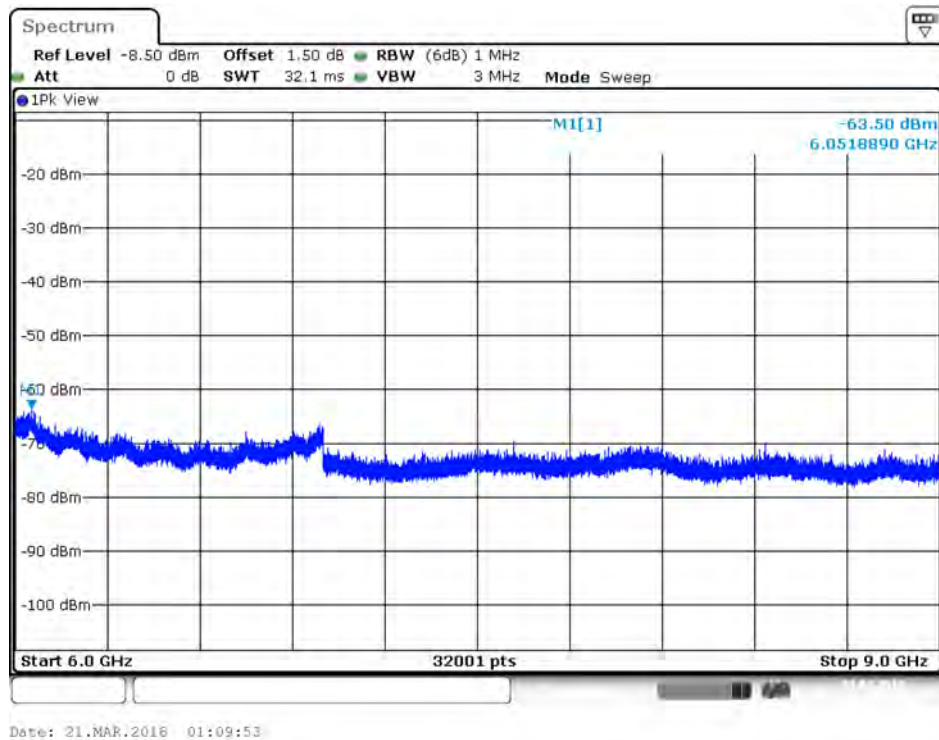
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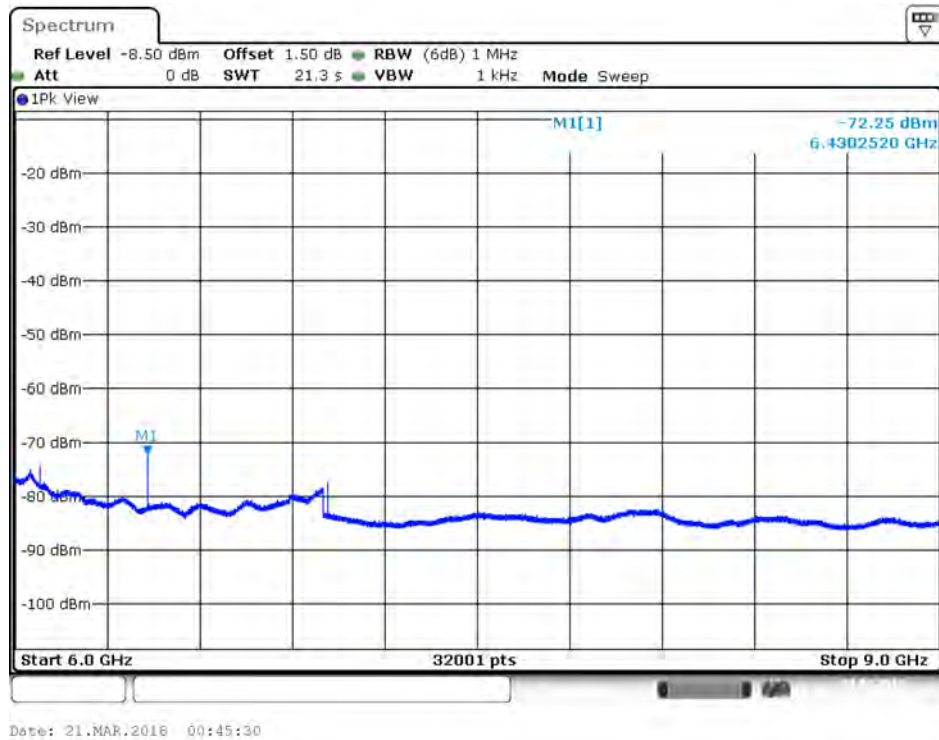
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 1 / 6GHz~9GHz



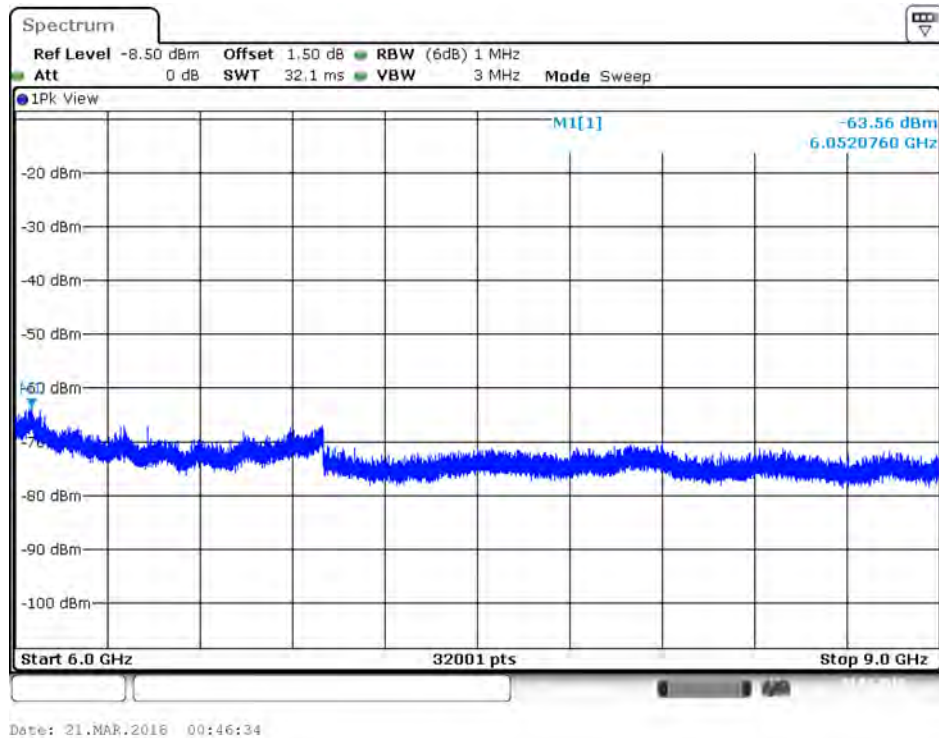
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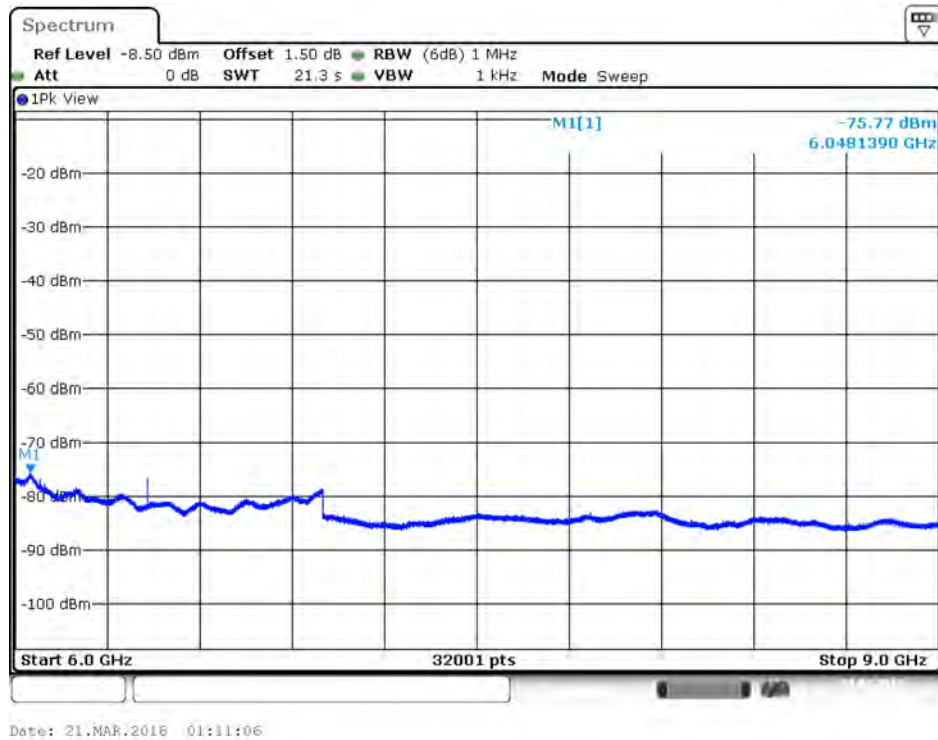
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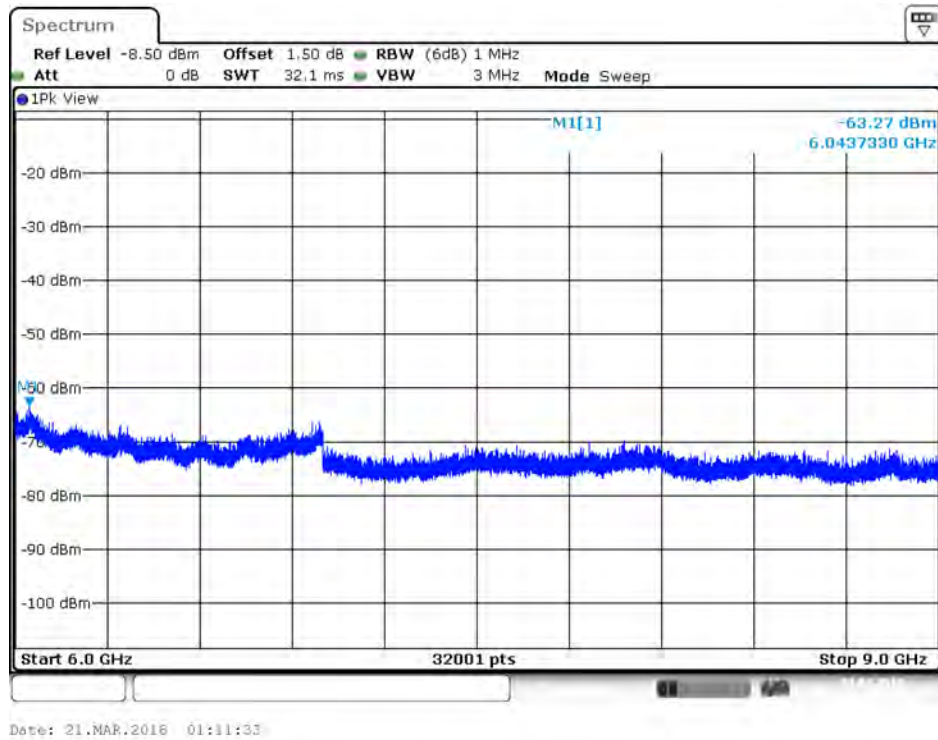
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 2 / 6GHz~9GHz



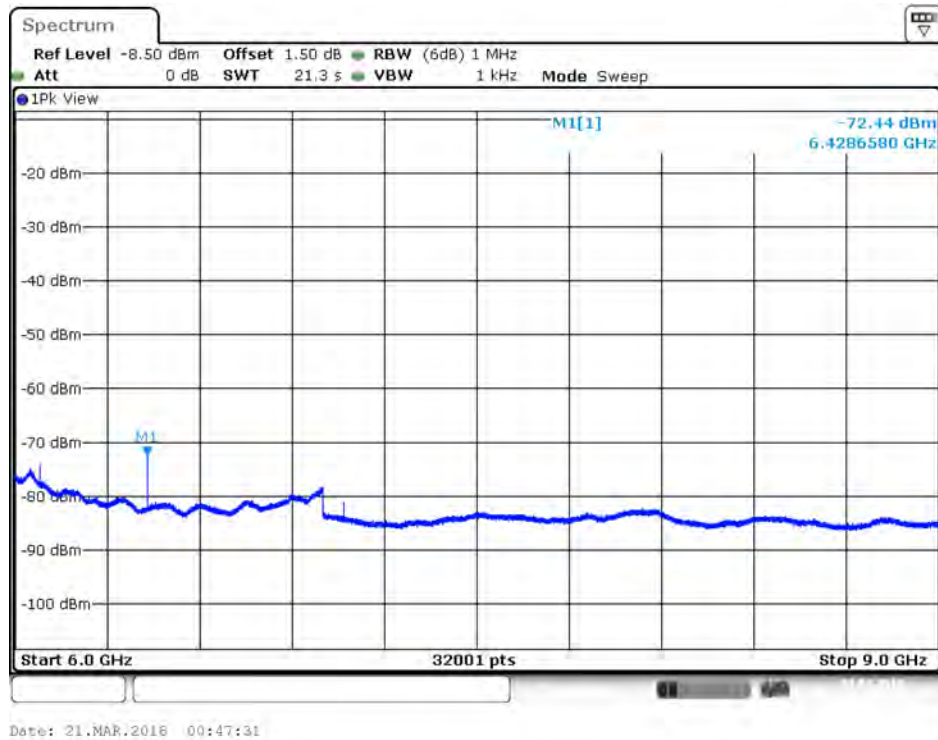
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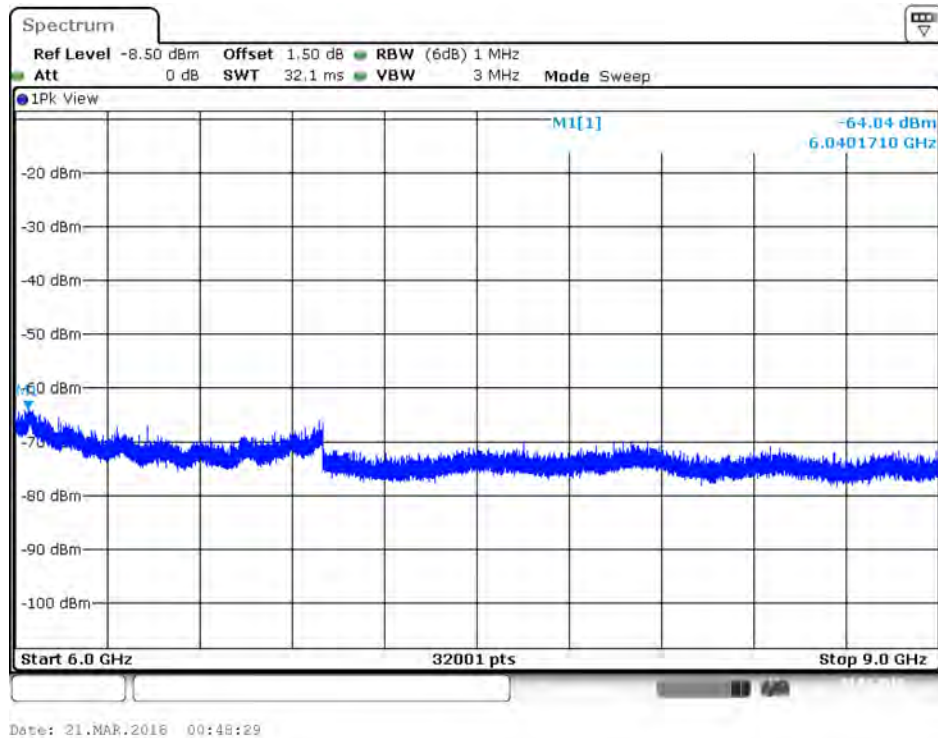
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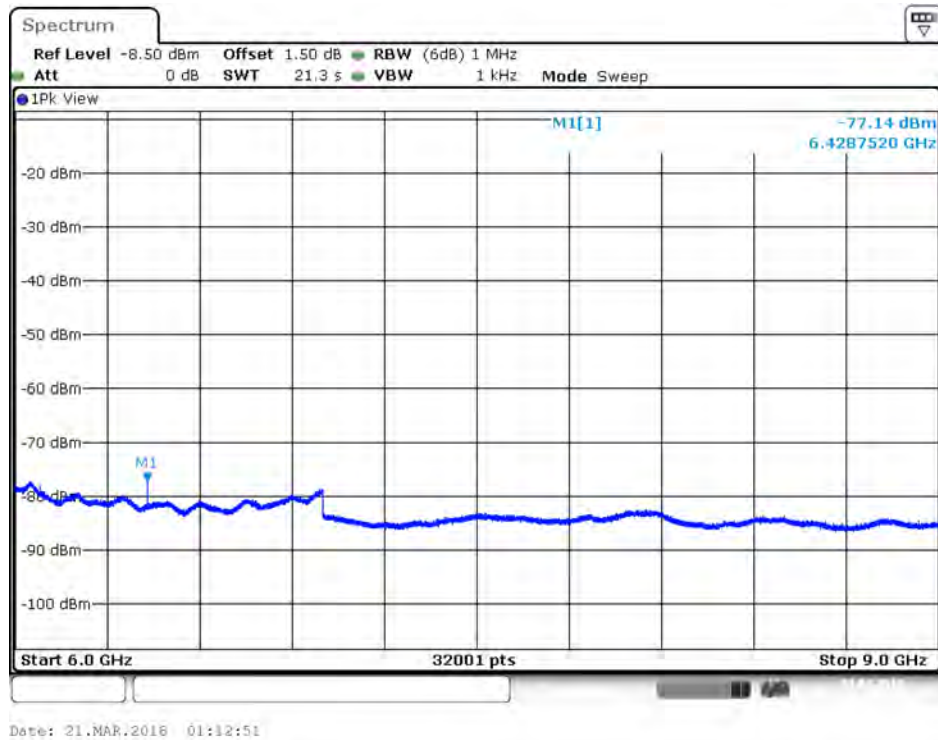
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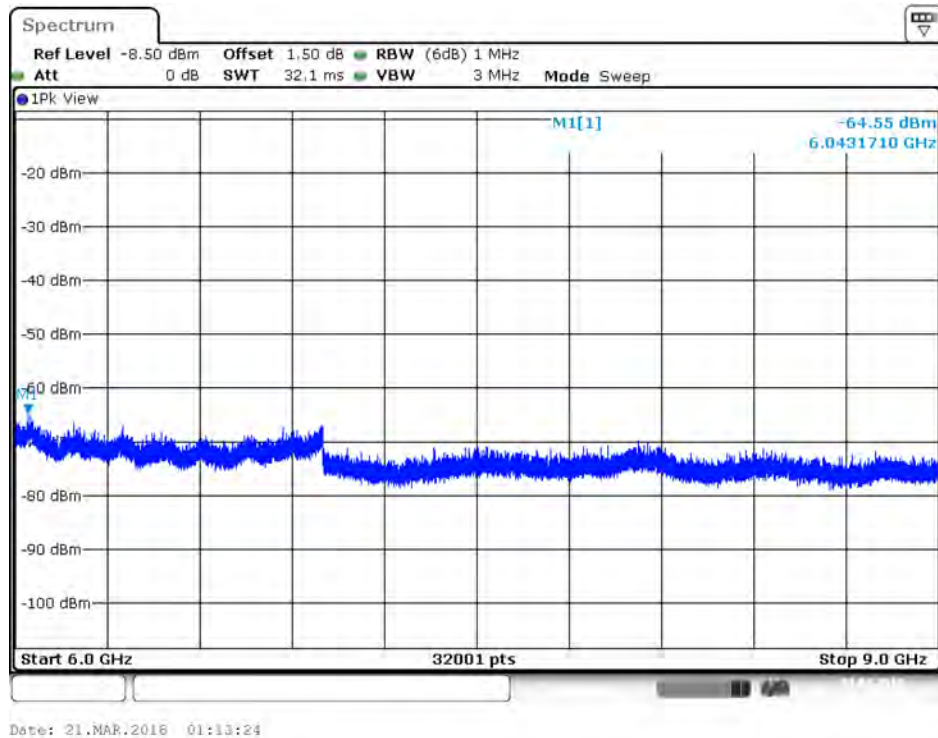
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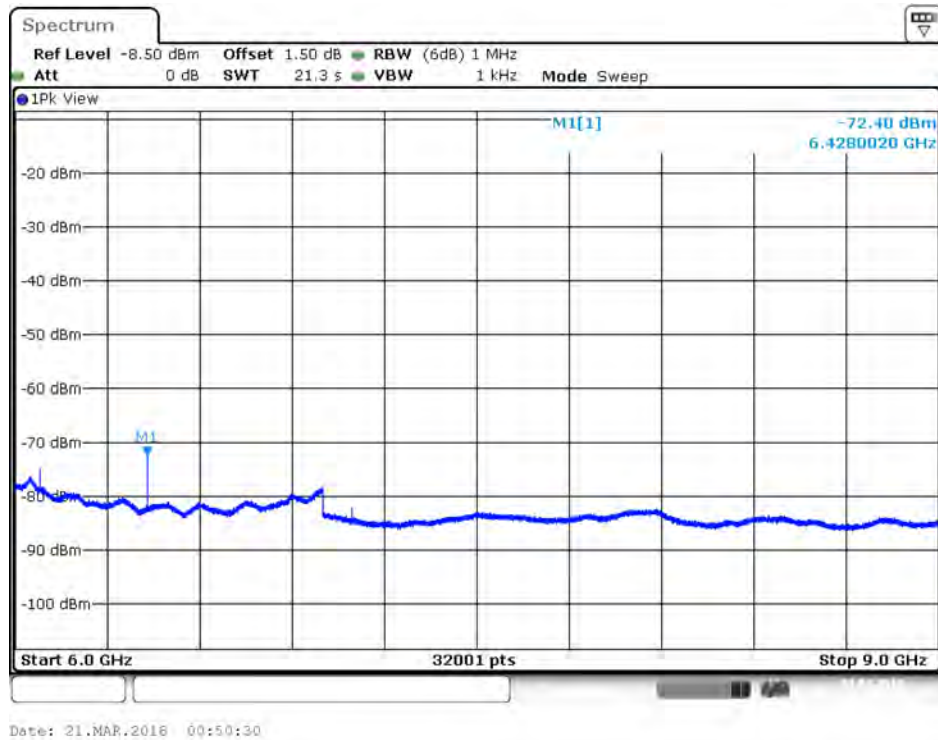
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 1 / 6GHz~9GHz



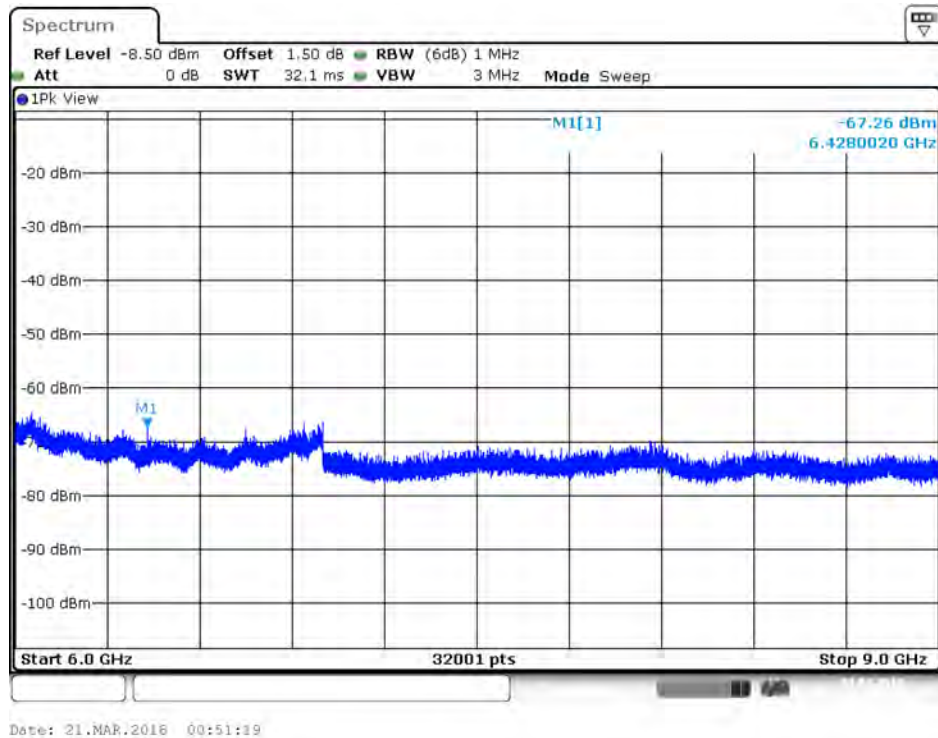
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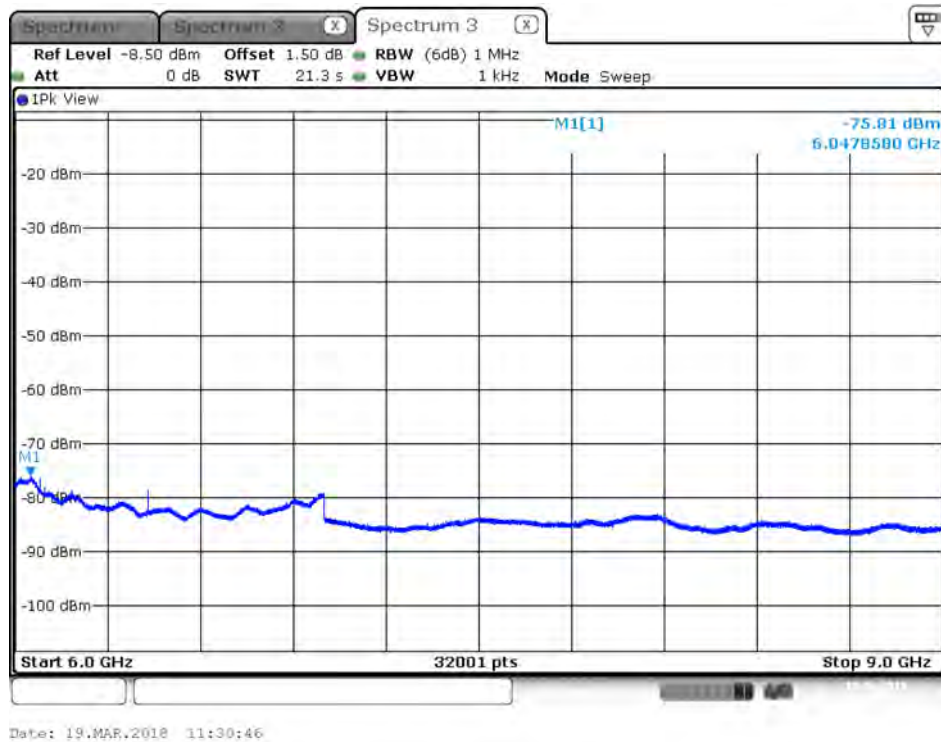
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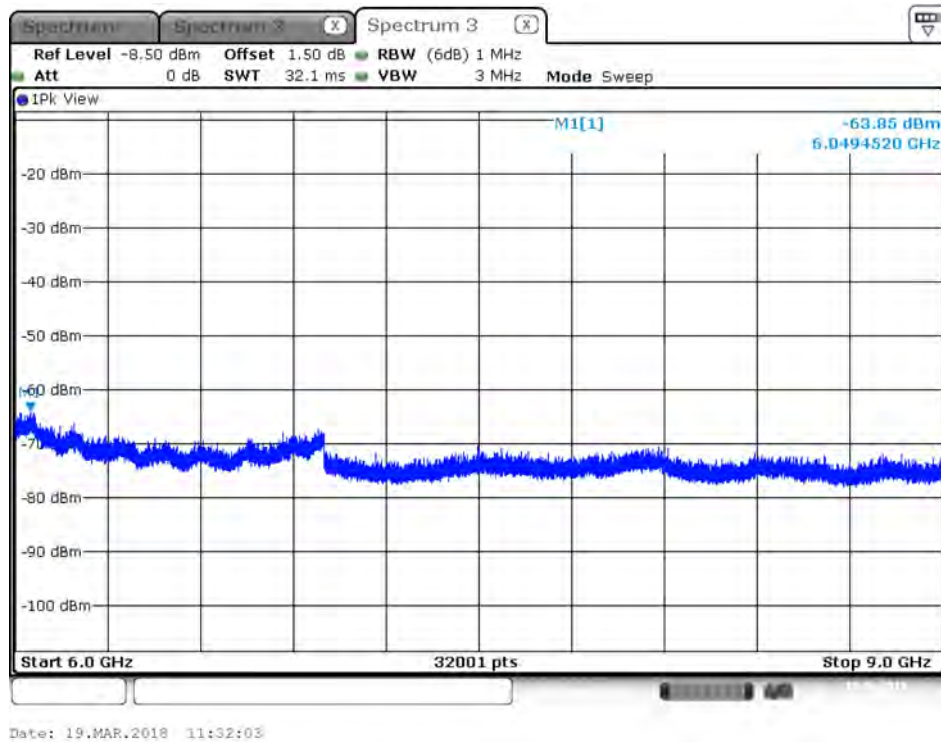
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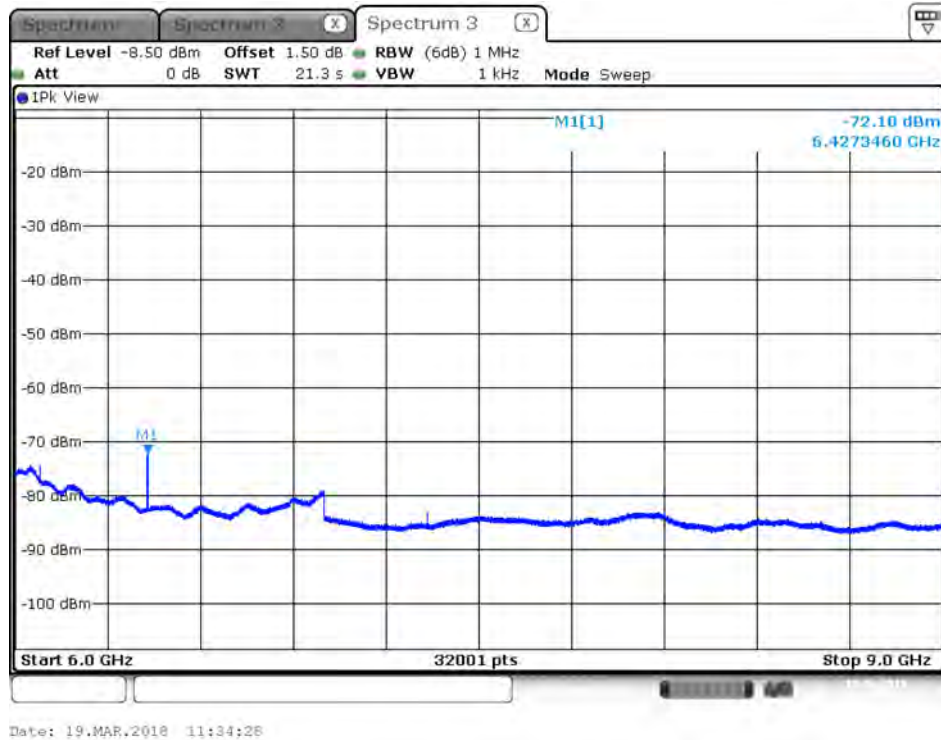
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 1 / 6GHz~9GHz



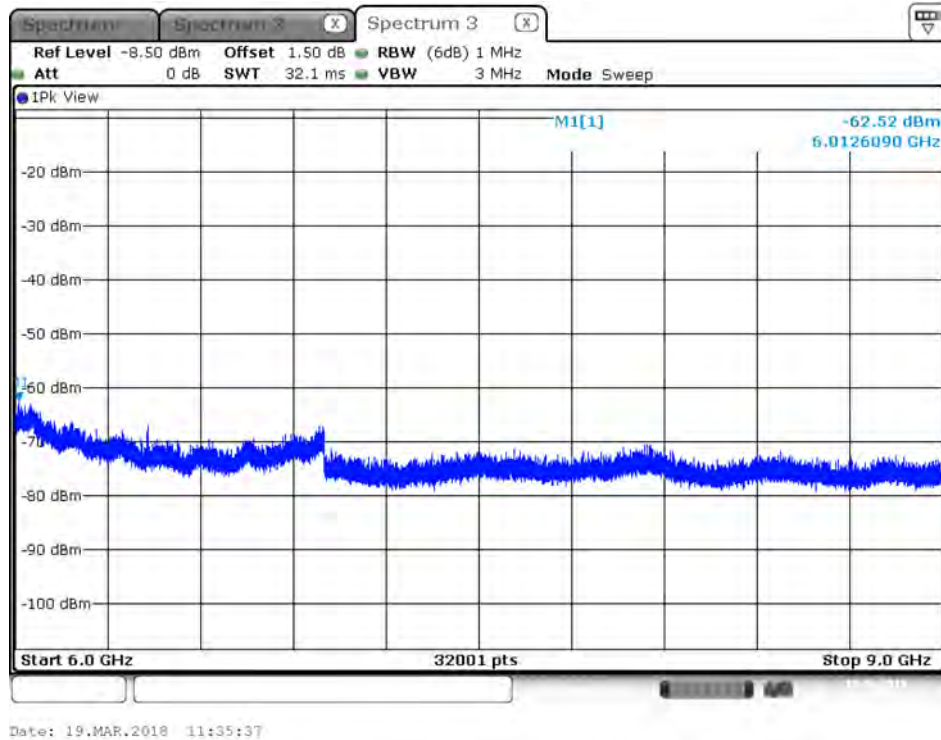
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 1 / 6GHz~9GHz



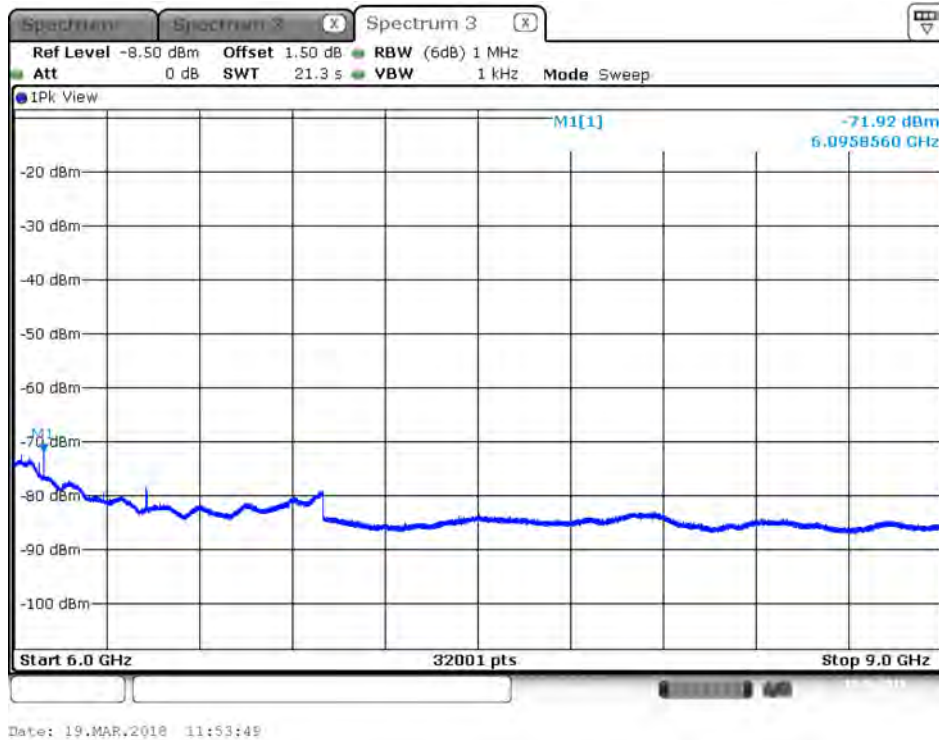
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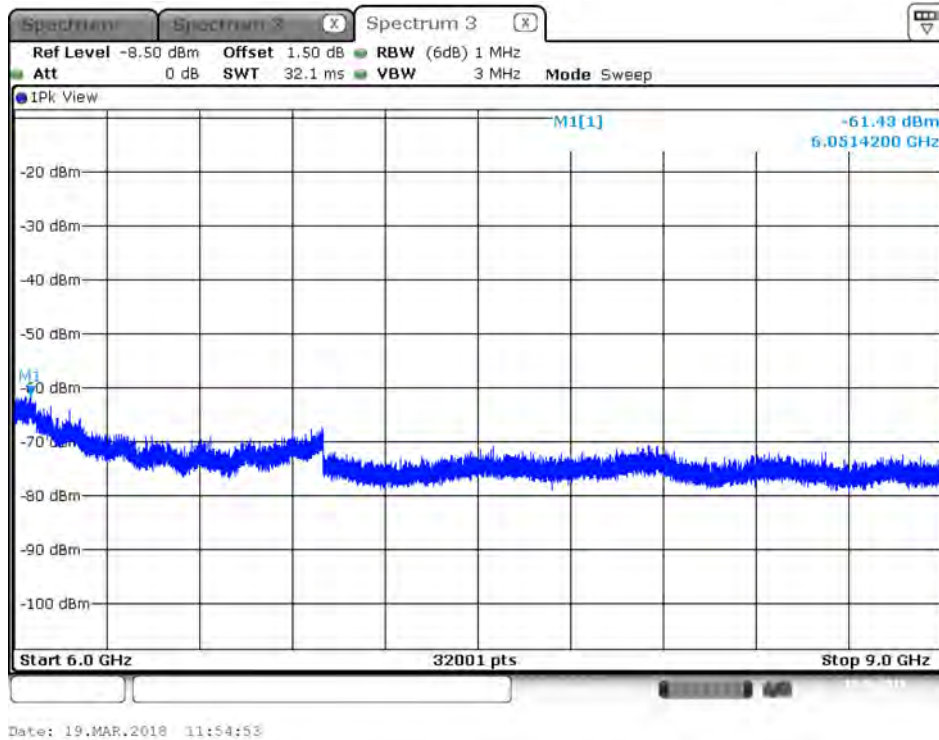
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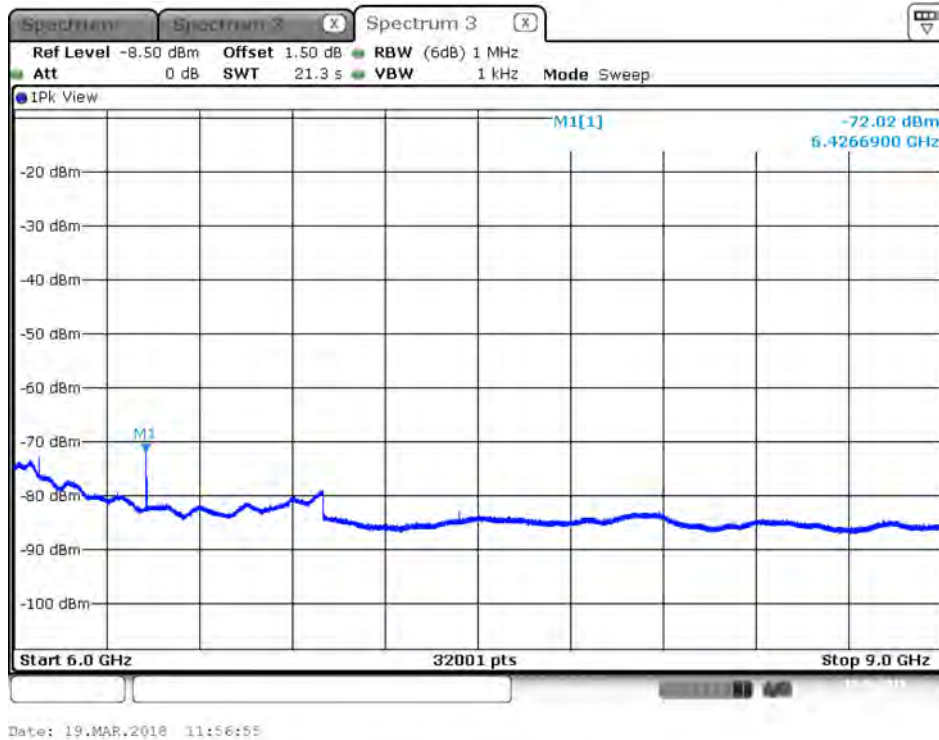
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 1 / 6GHz~9GHz



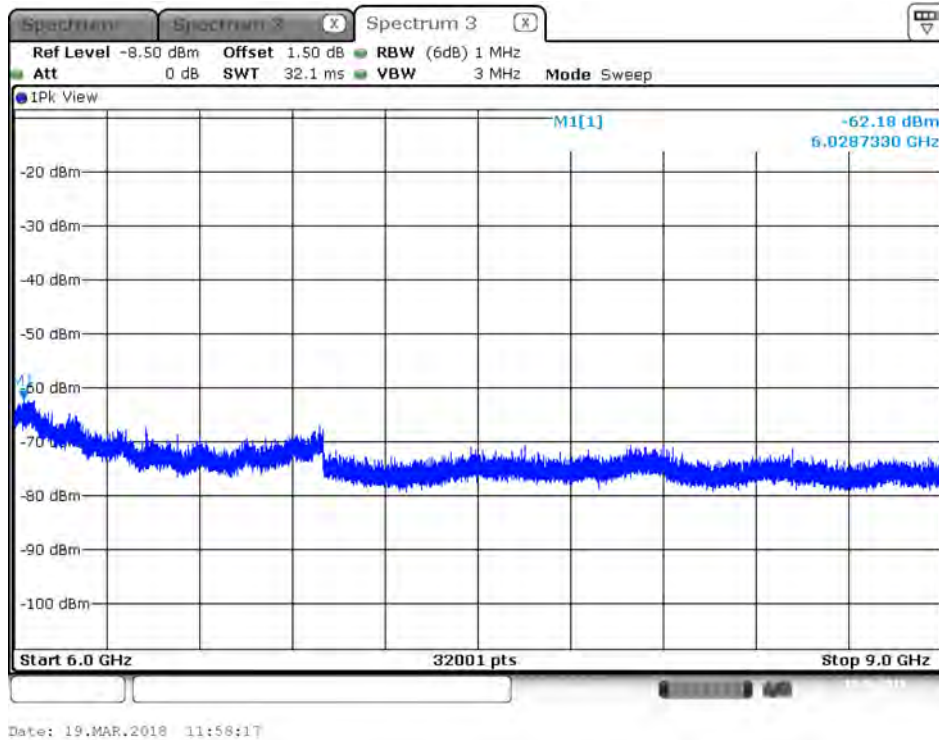
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 1 / 6GHz~9GHz



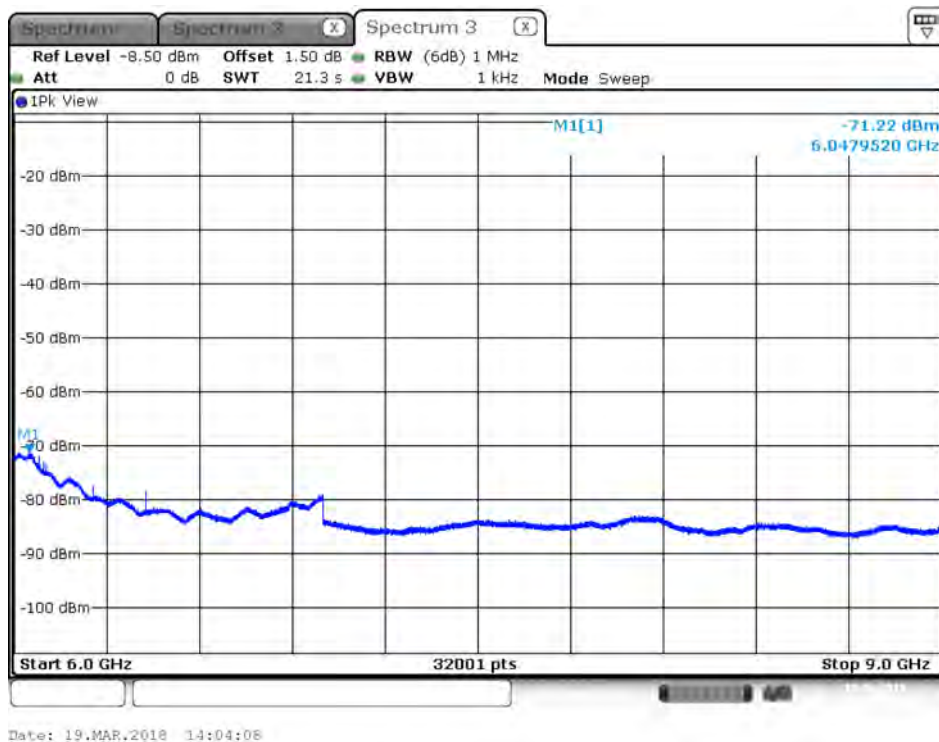
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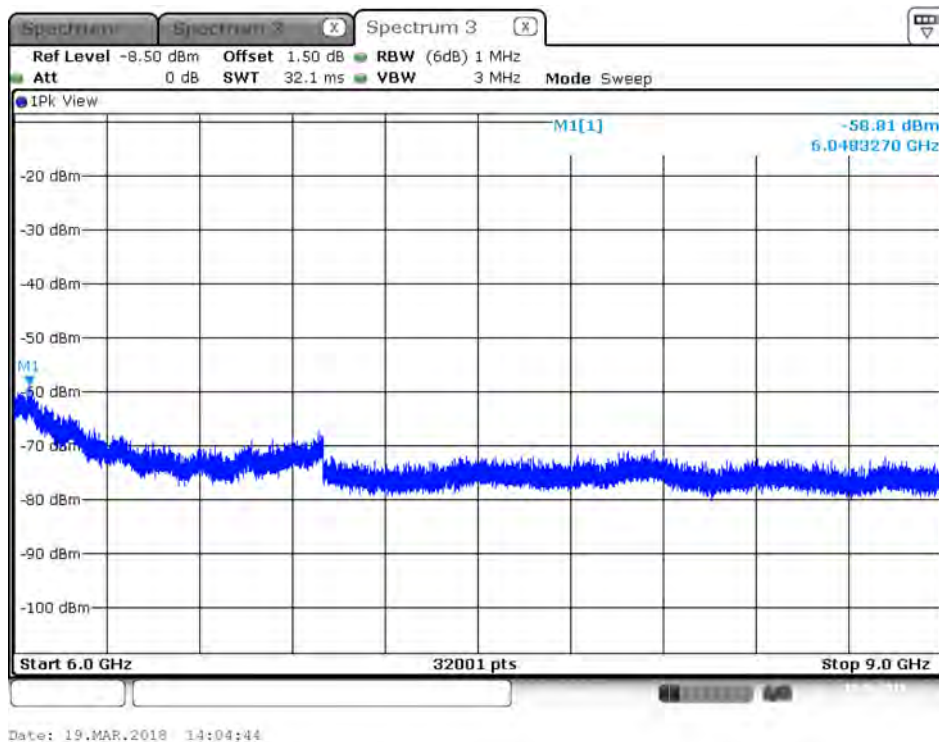
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 2 / 6GHz~9GHz



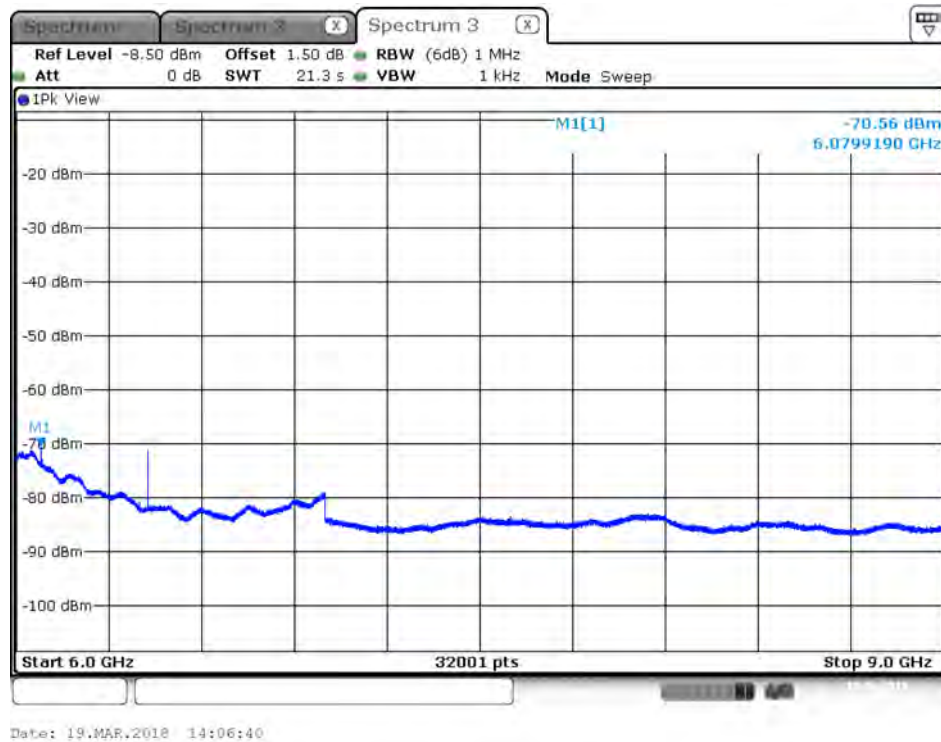
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 1 / 6GHz~9GHz



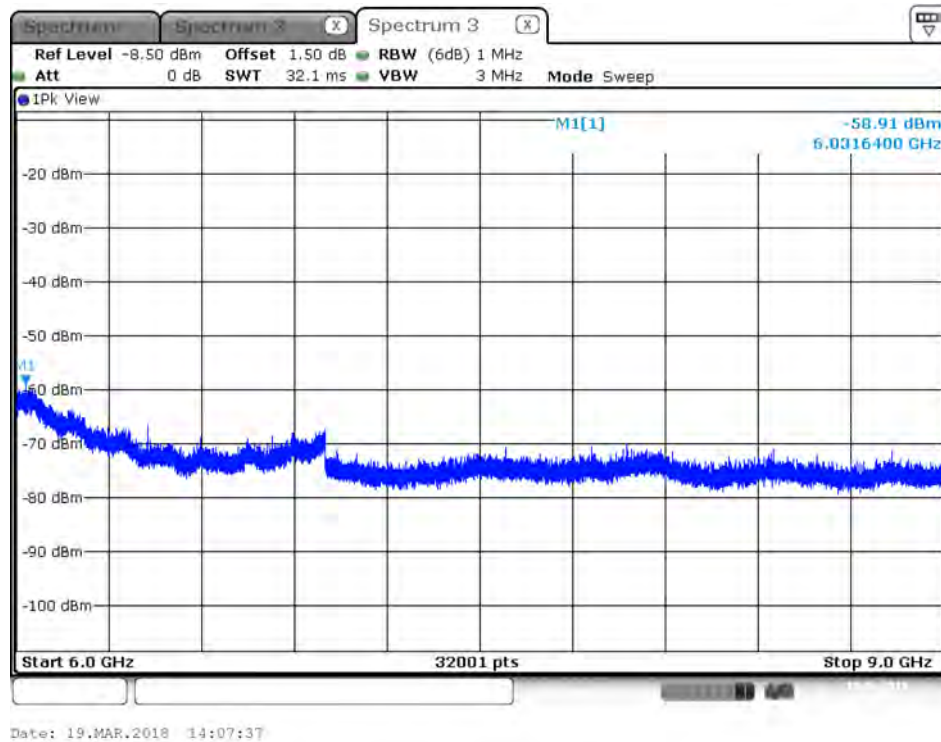
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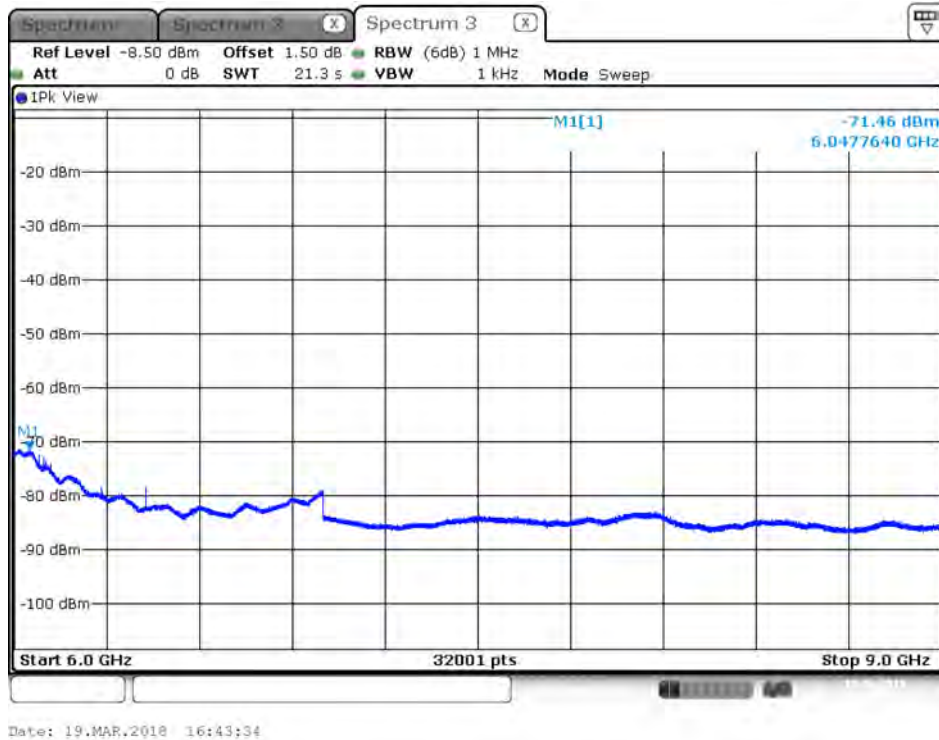
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 2 / 6GHz~9GHz



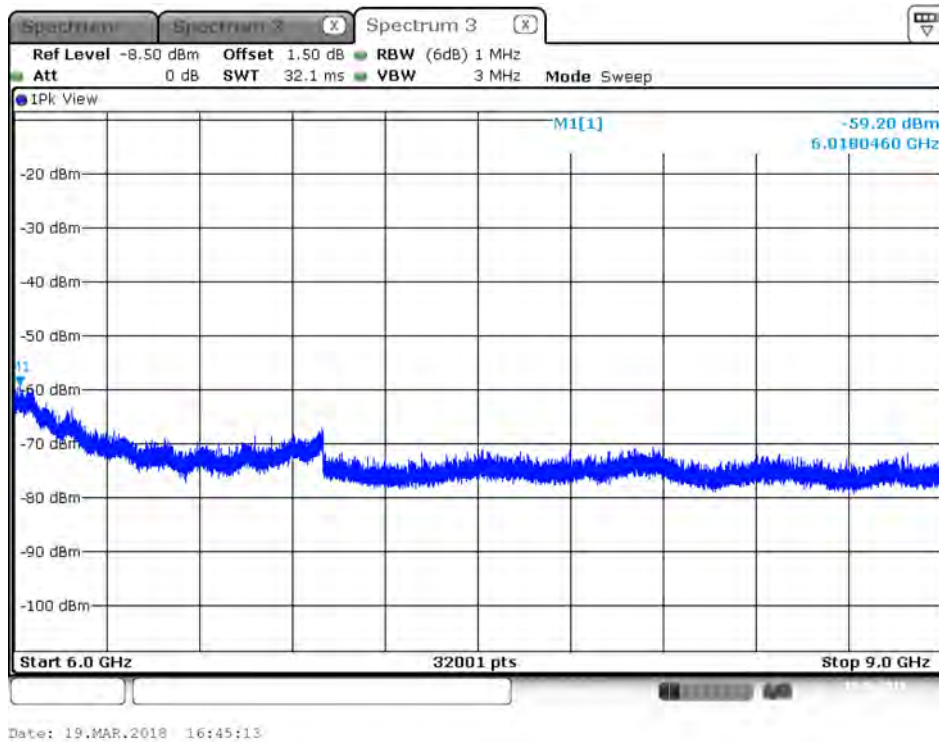
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 2 / 6GHz~9GHz



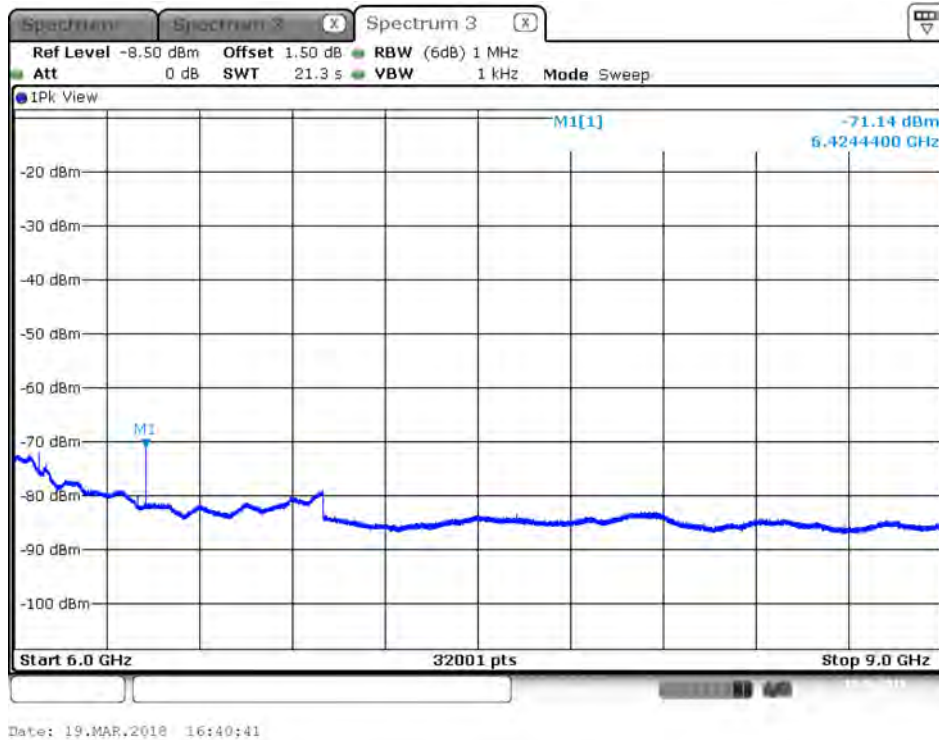
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 1 / 6GHz~9GHz



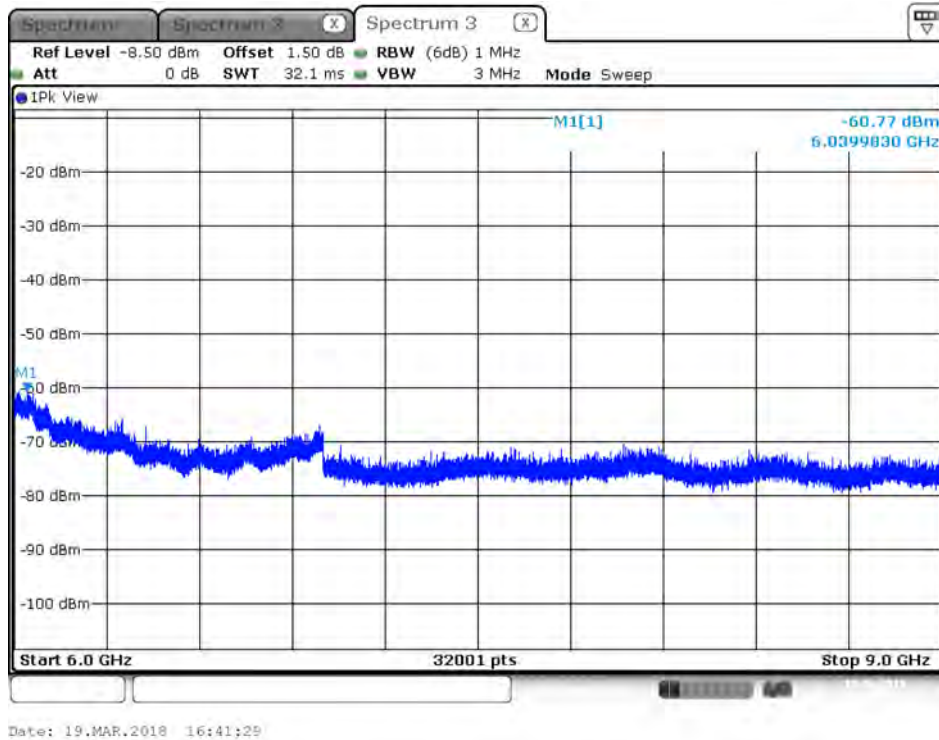
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 1 / 6GHz~9GHz



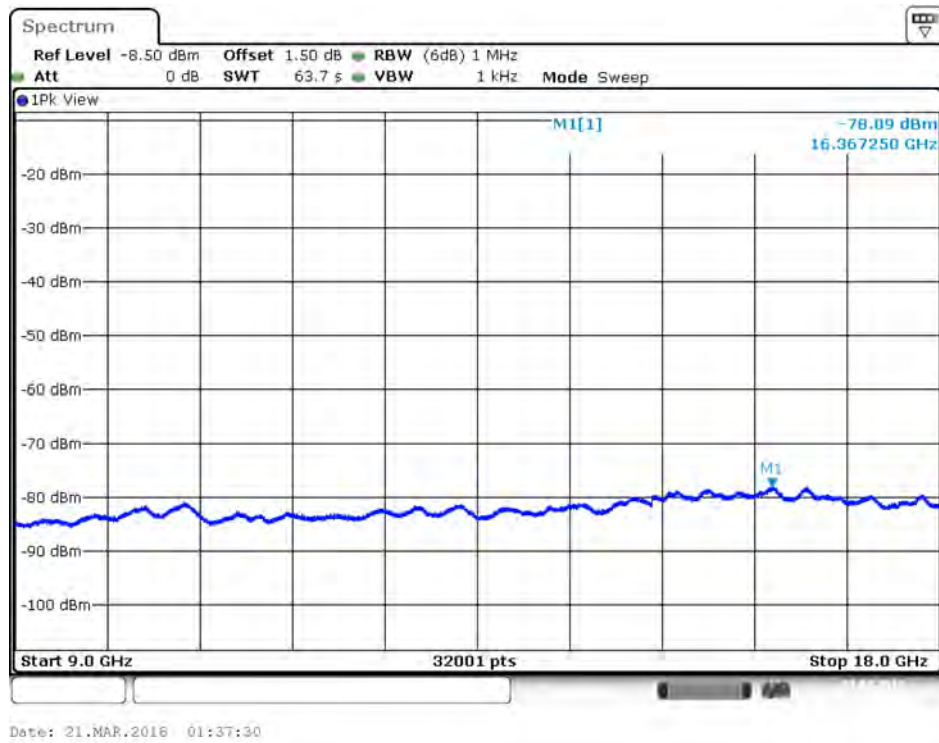
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 2 / 6GHz~9GHz



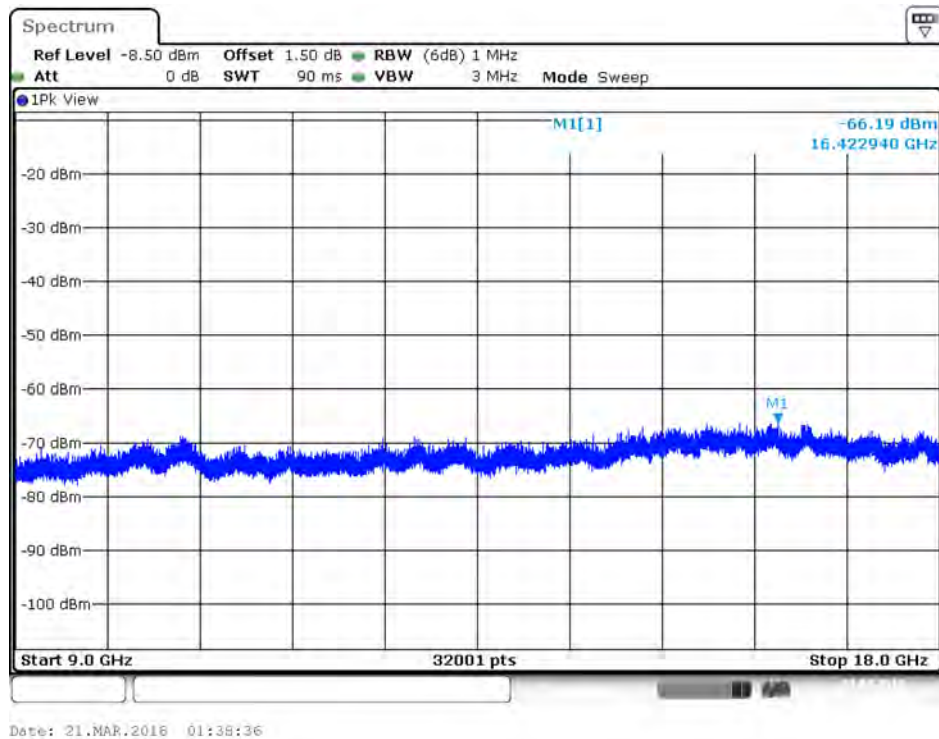
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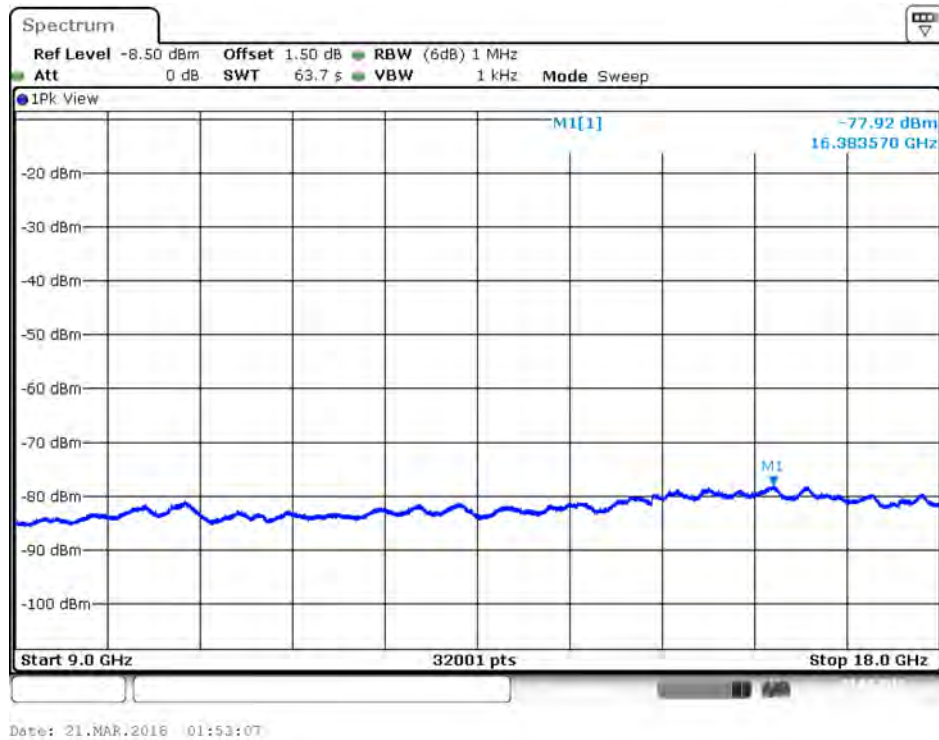
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 1 / 9GHz~18GHz



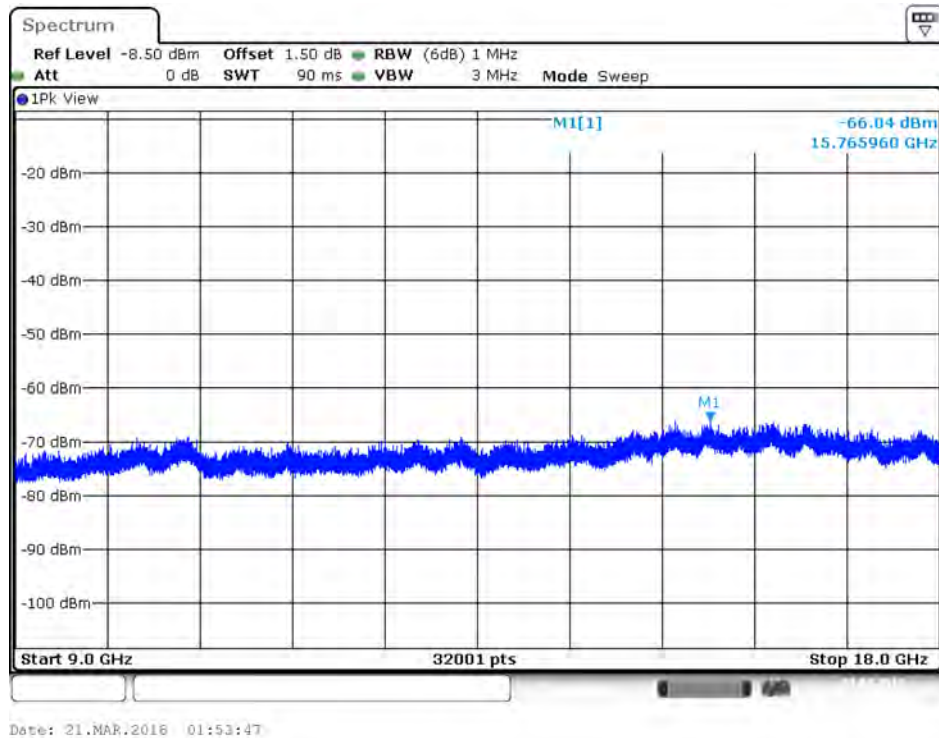
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 1 / 9GHz~18GHz



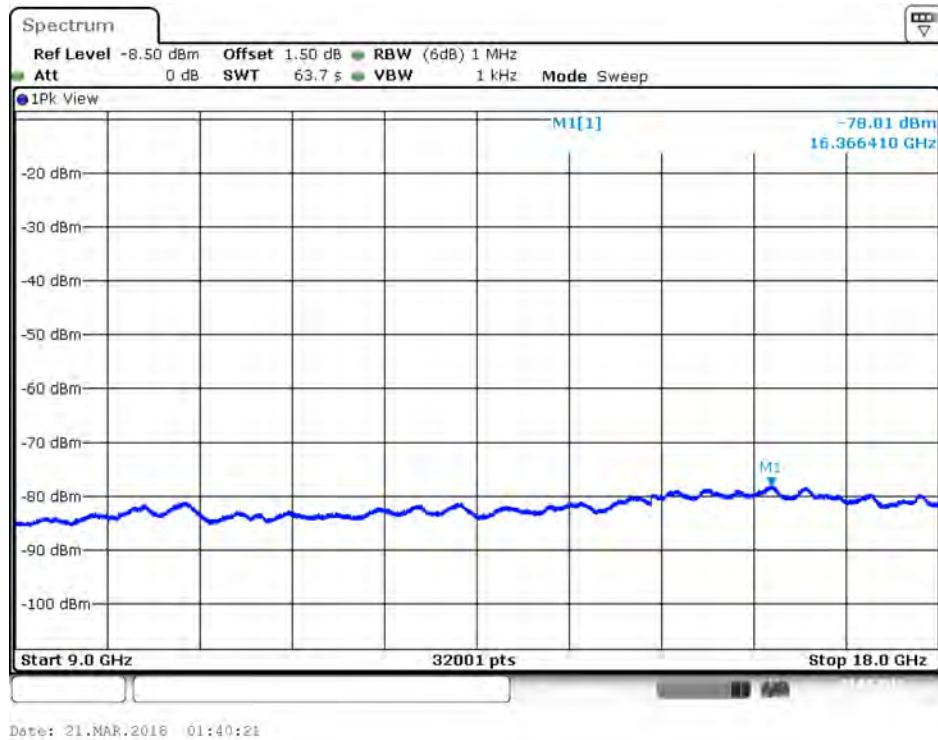
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 2 / 9GHz~18GHz



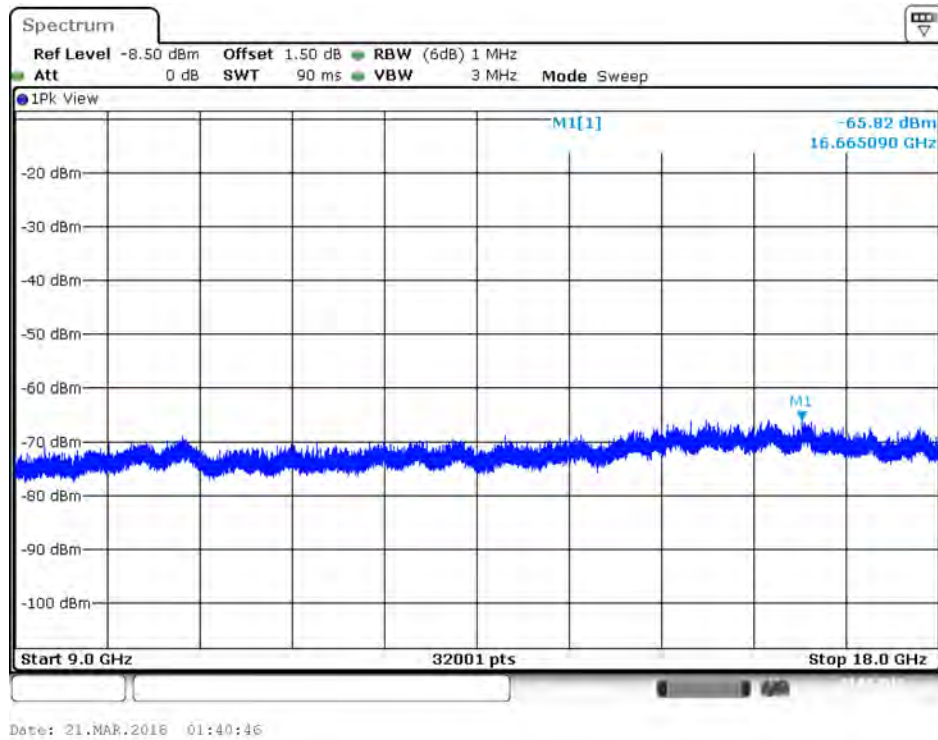
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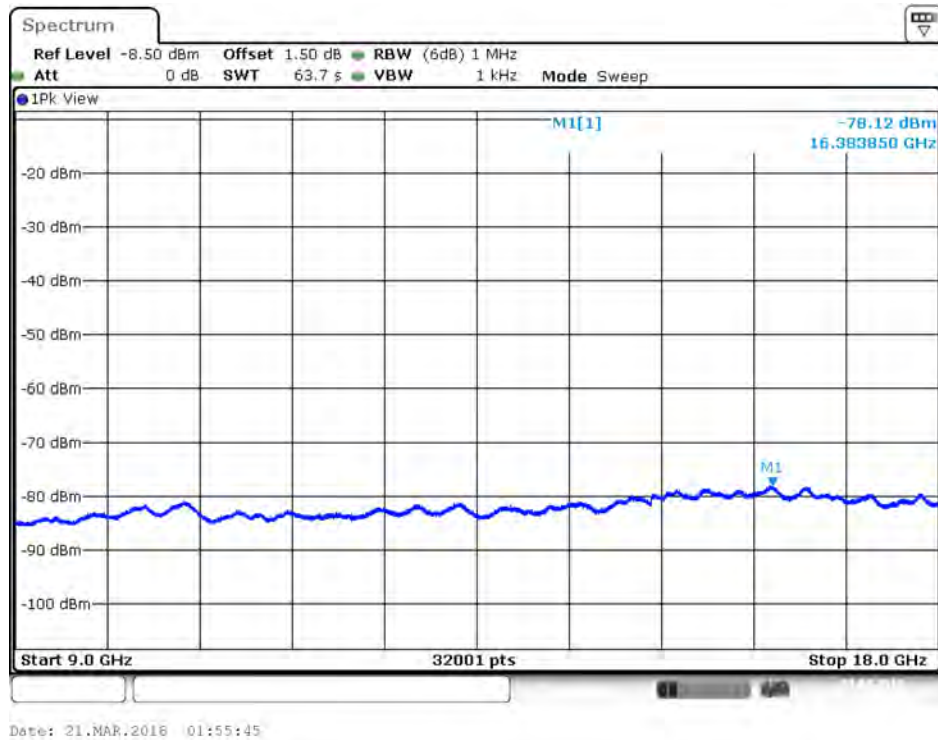
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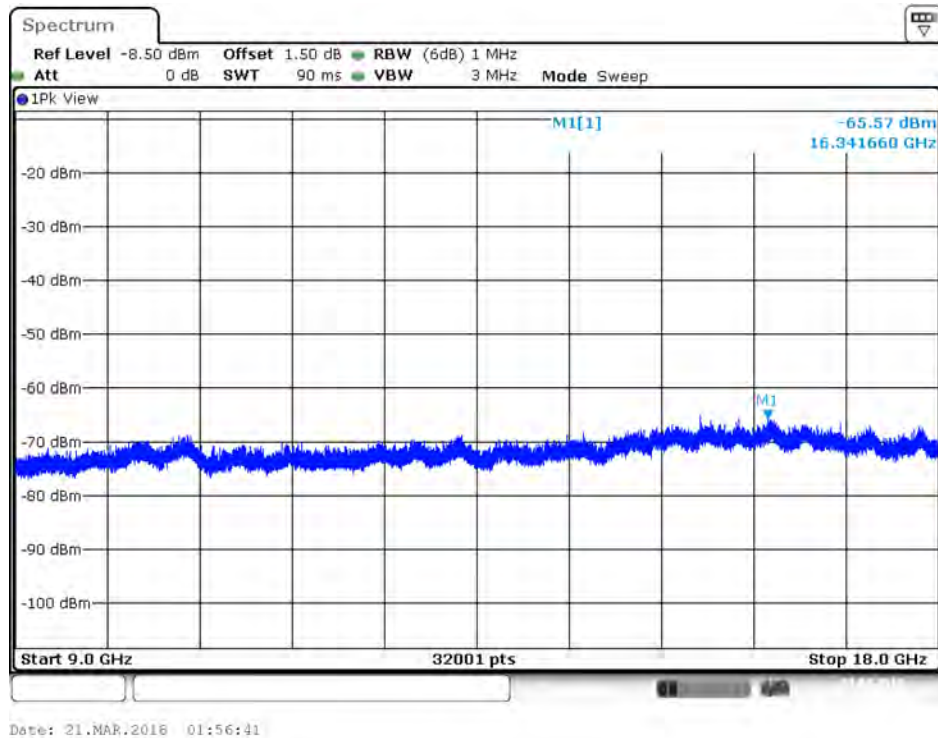
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 1 / 9GHz~18GHz



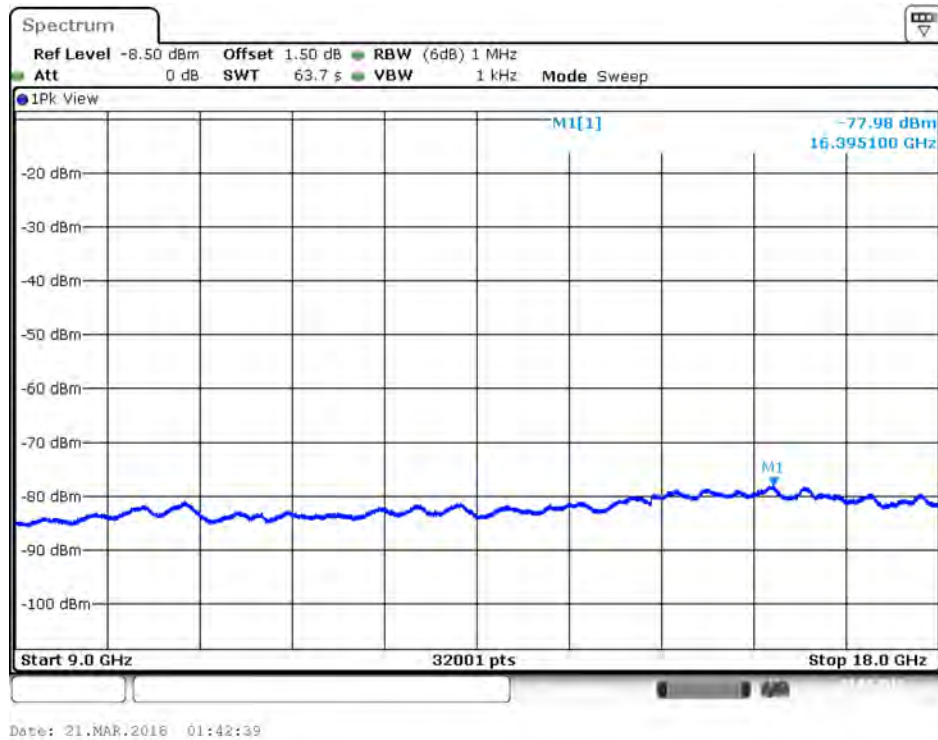
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 2 / 9GHz~18GHz



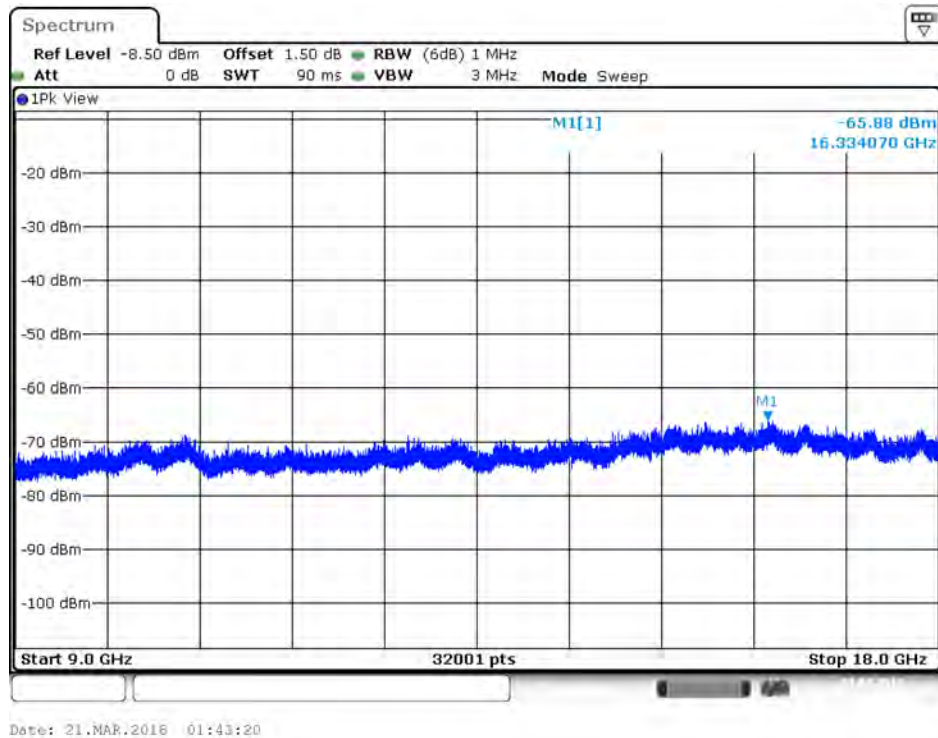
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 2 / 9GHz~18GHz



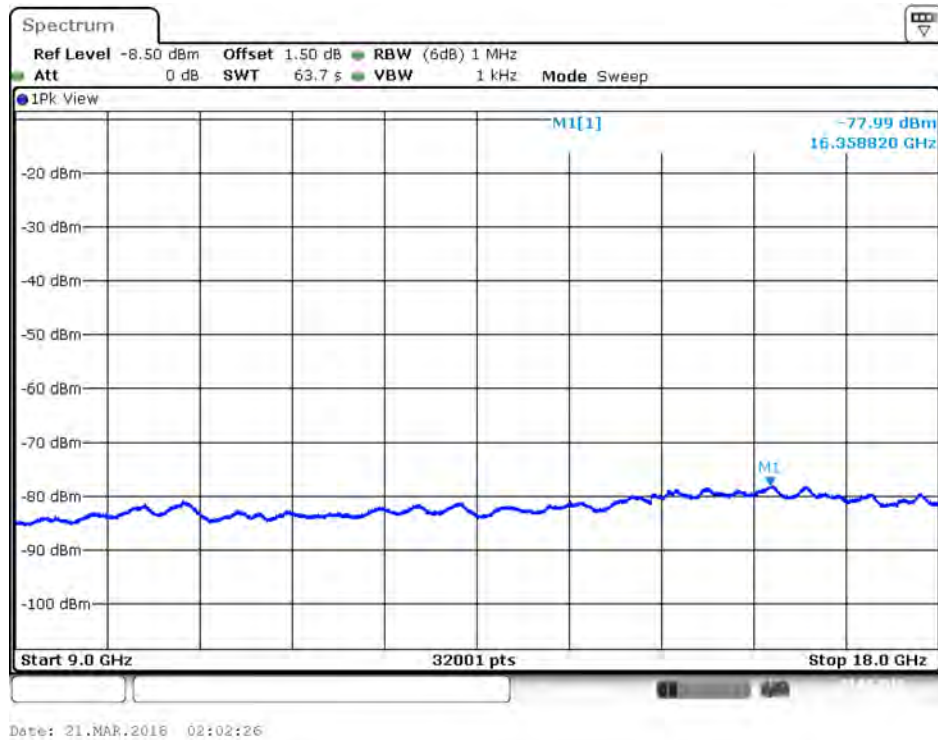
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 1 / 9GHz~18GHz



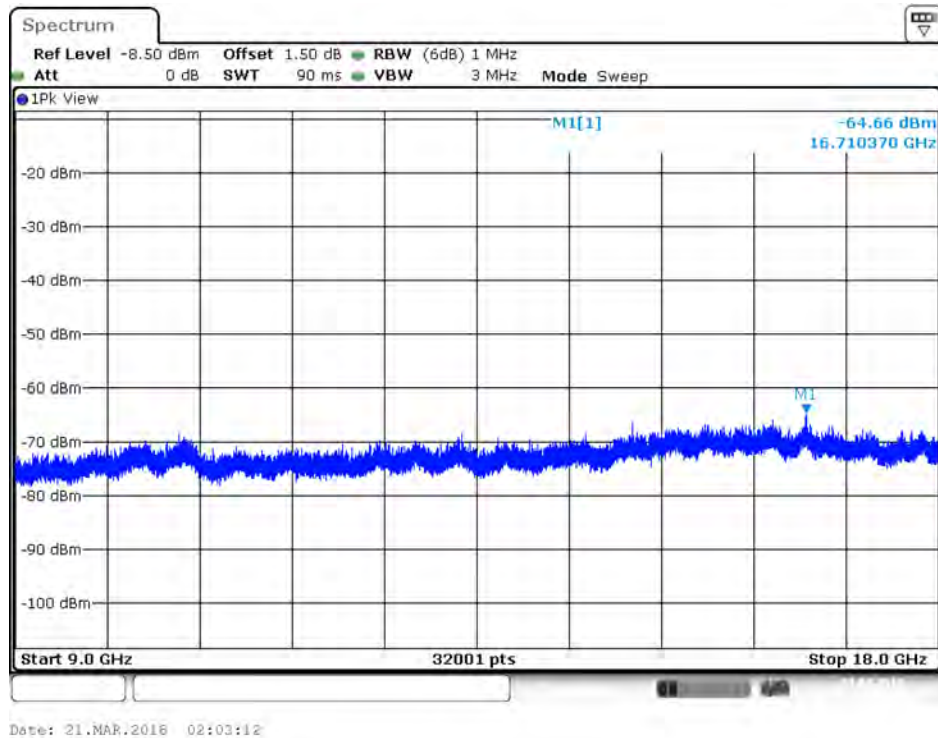
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Peak / Port 1 / 9GHz~18GHz



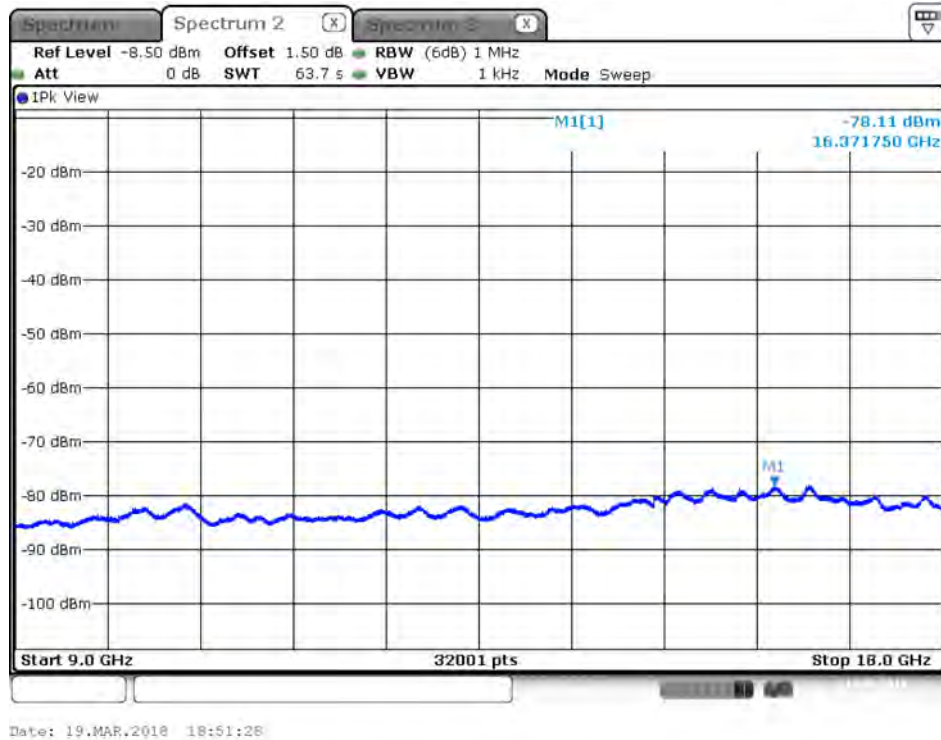
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 2 / 9GHz~18GHz



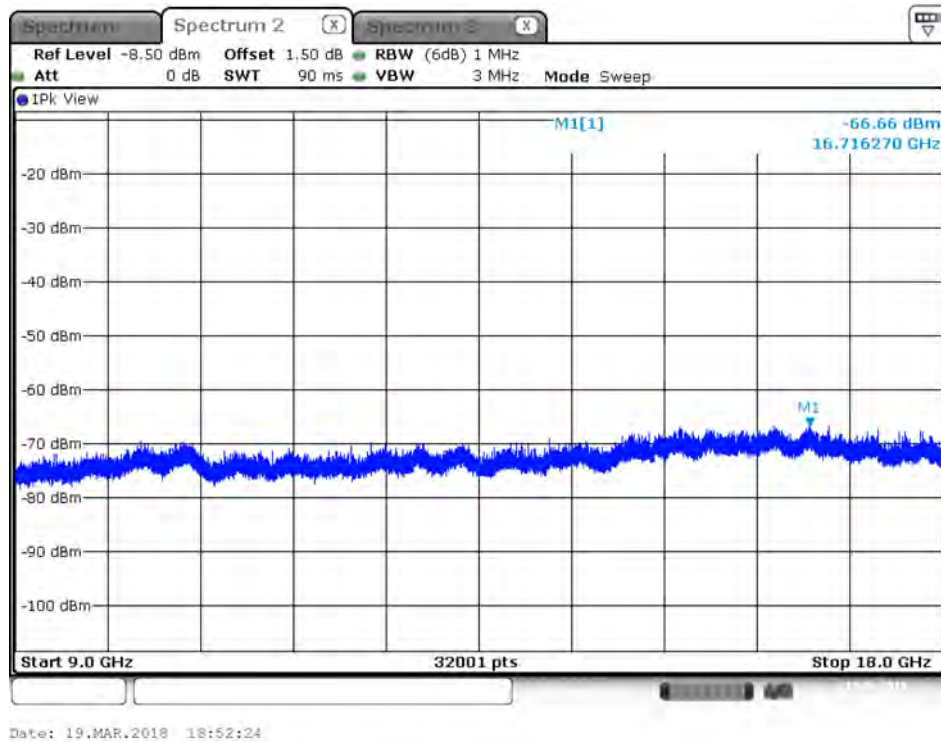
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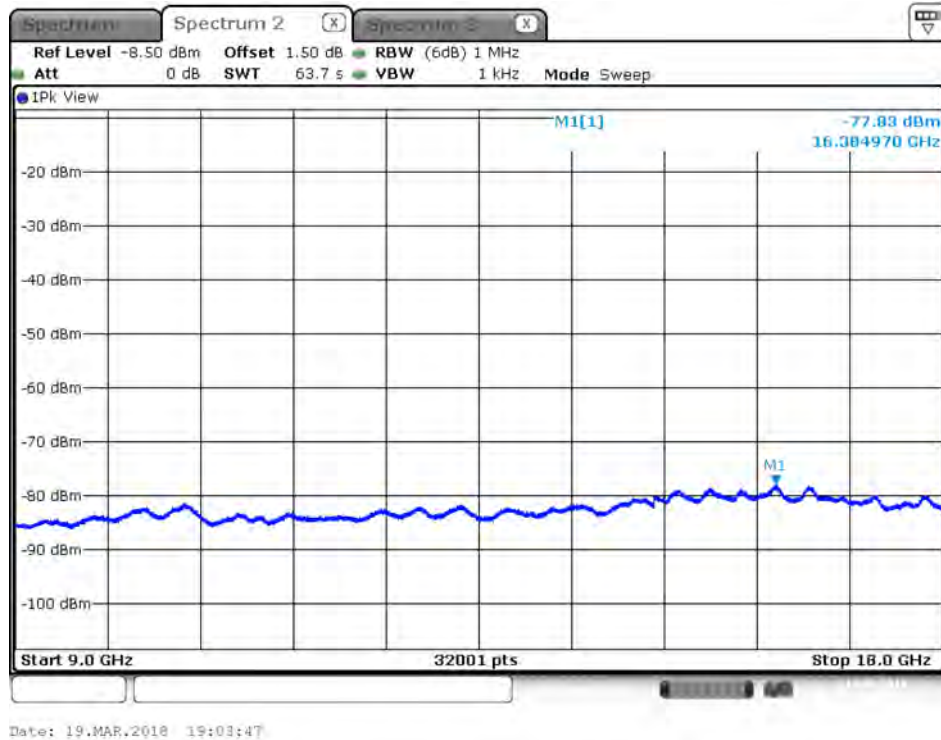
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 1 / 9GHz~18GHz



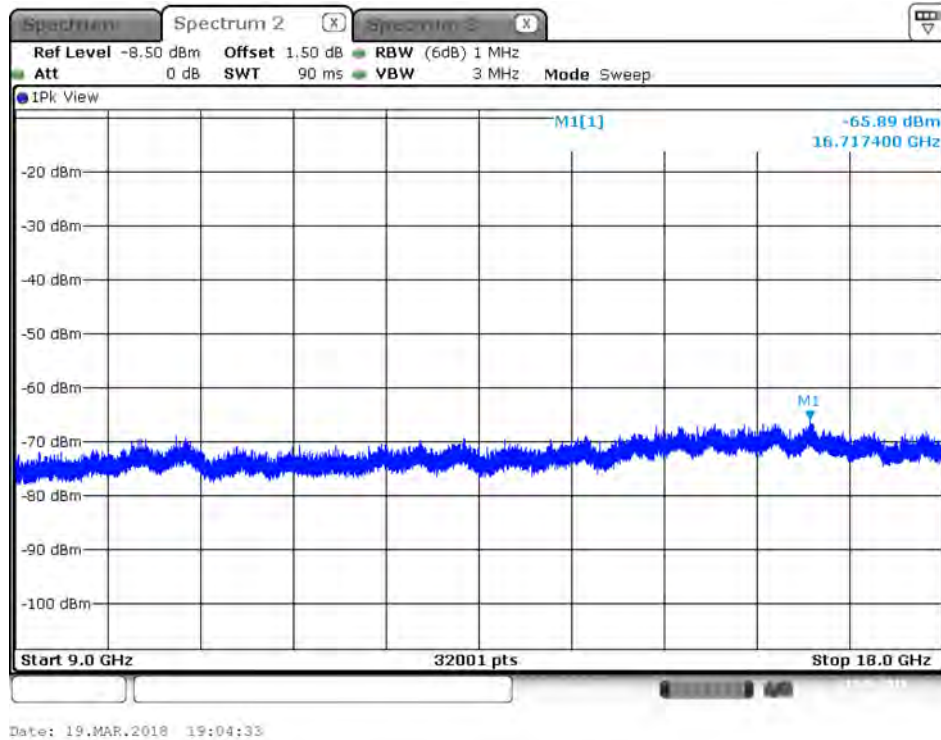
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 1 / 9GHz~18GHz



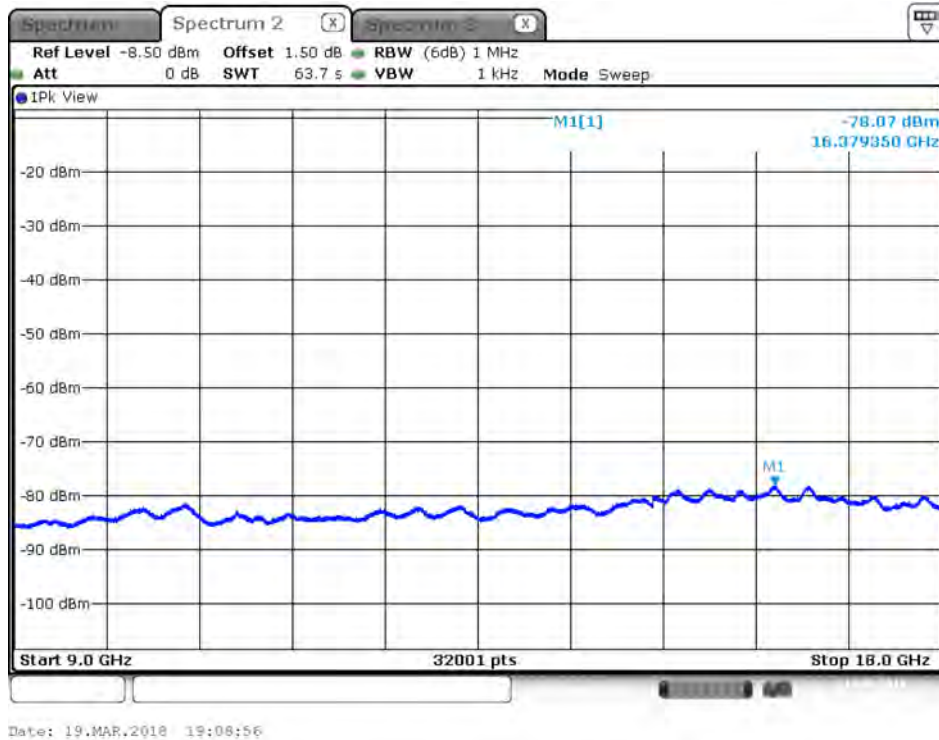
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 2 / 9GHz~18GHz



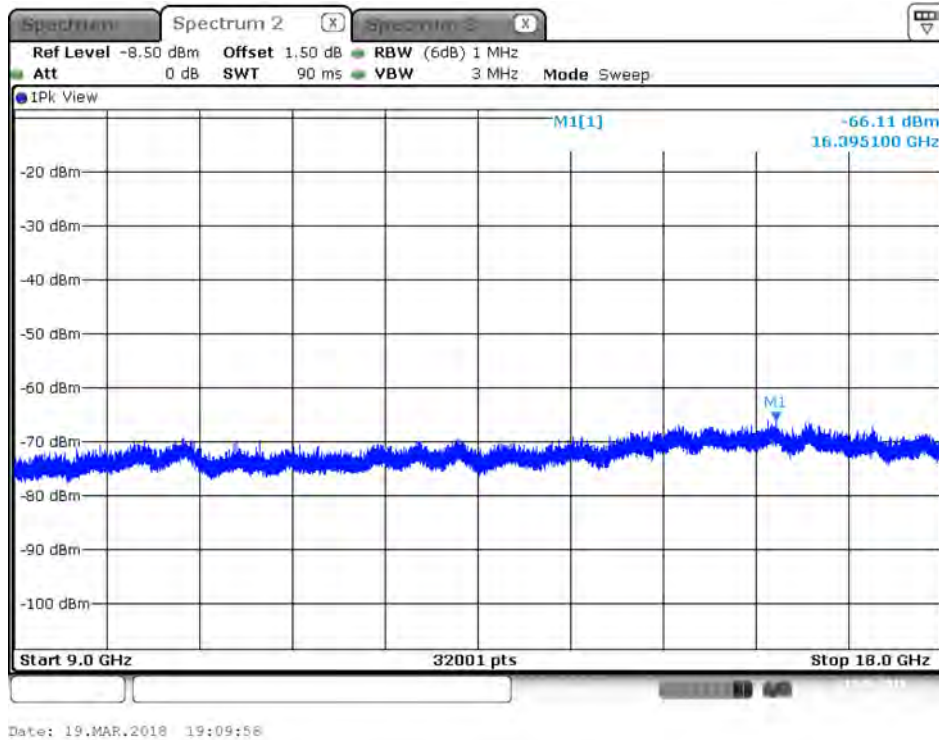
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 2 / 9GHz~18GHz



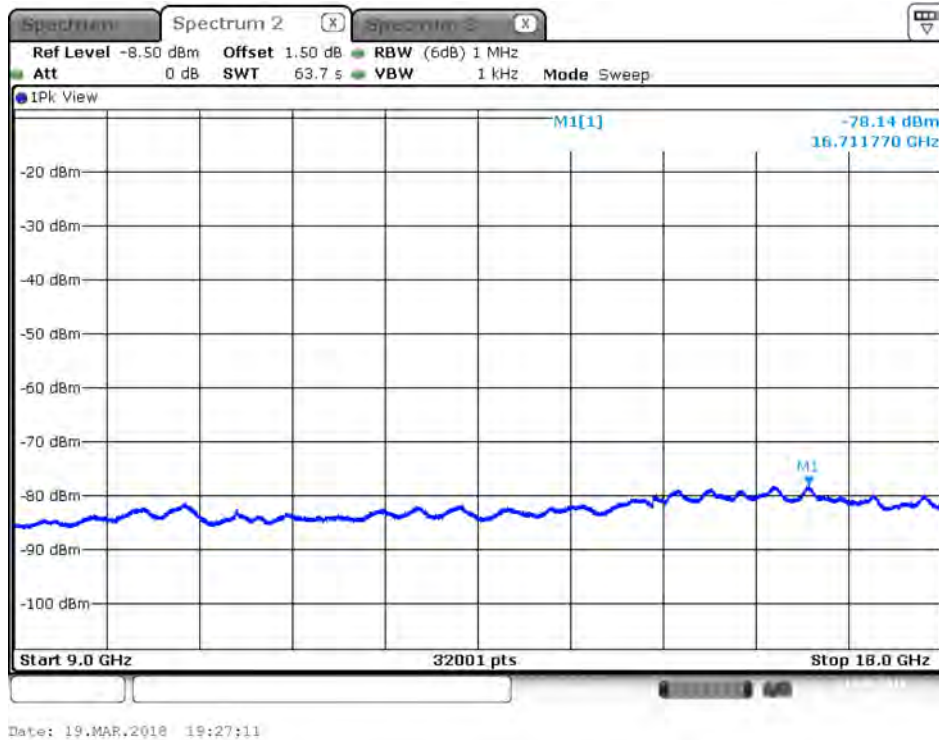
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 1 / 9GHz~18GHz



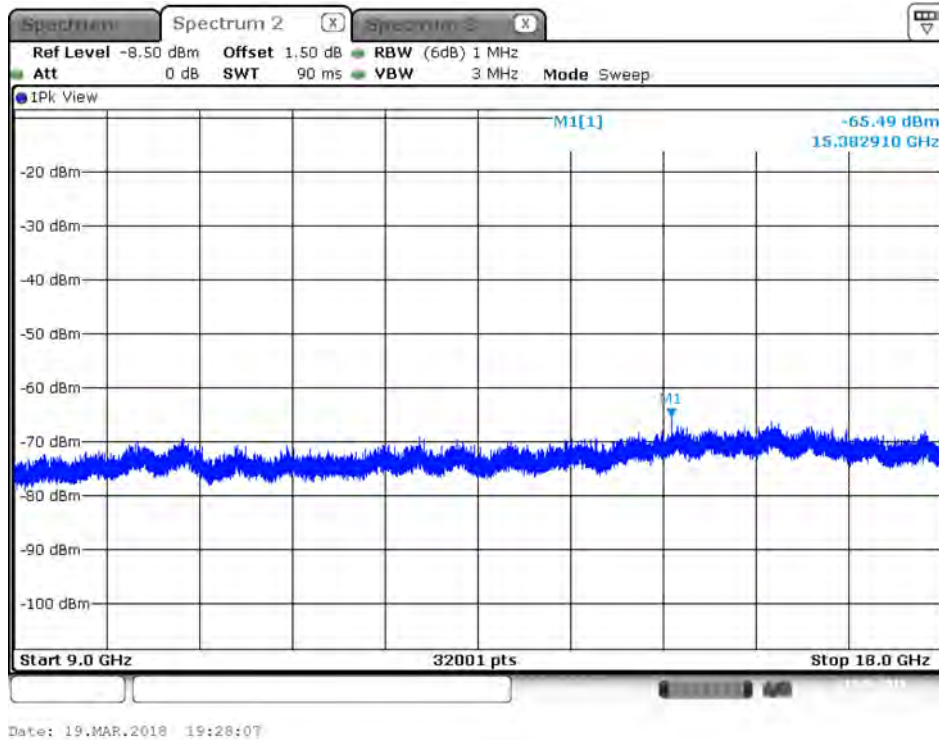
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 1 / 9GHz~18GHz



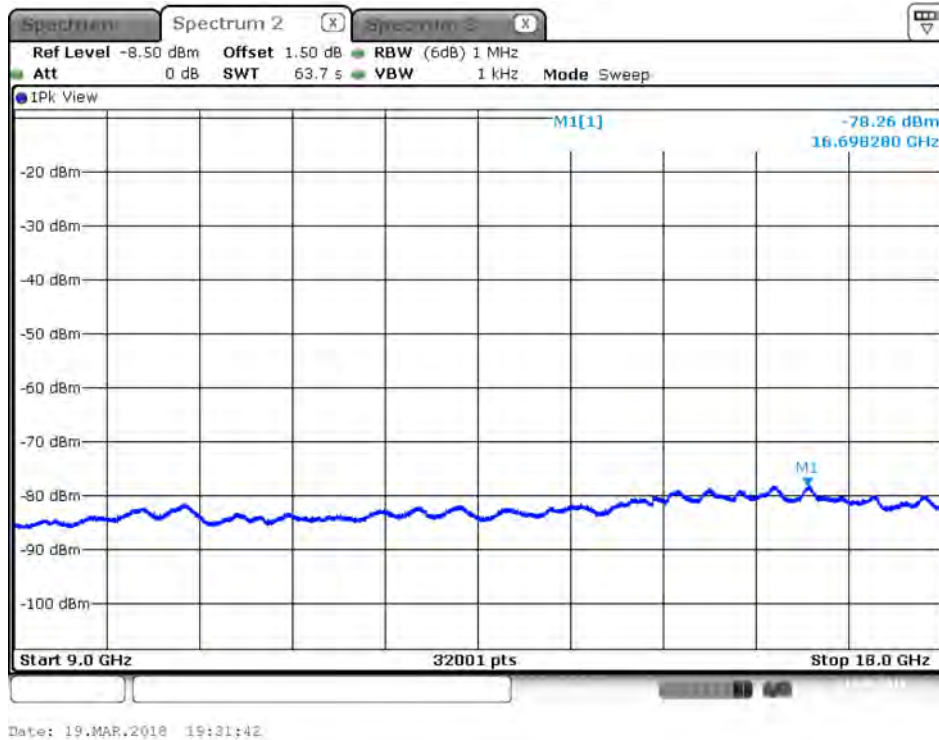
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 2 / 9GHz~18GHz



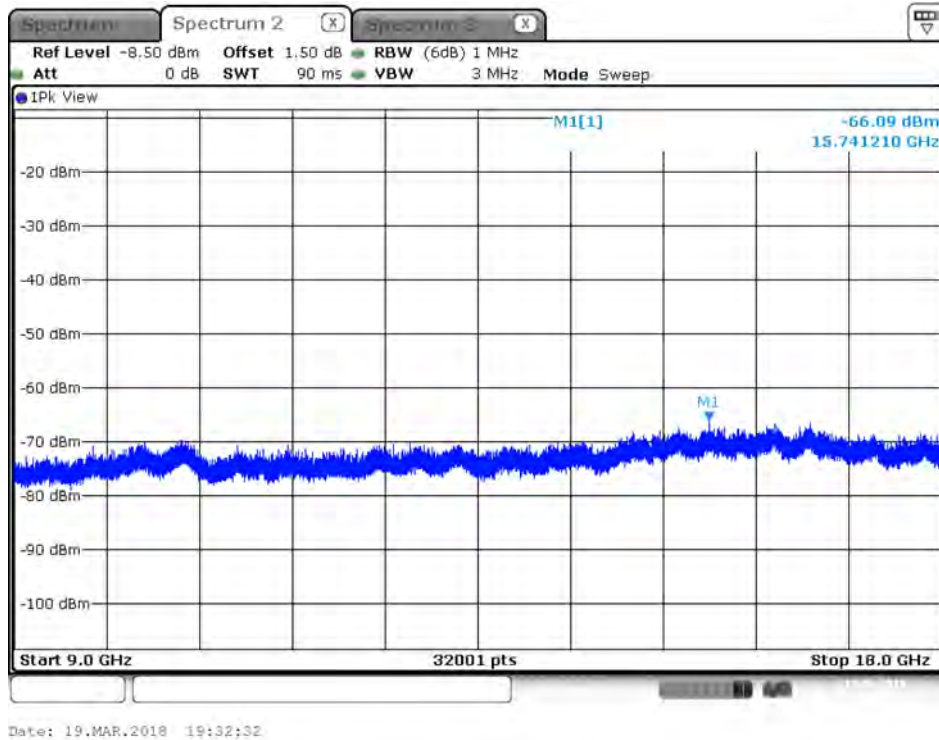
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 2 / 9GHz~18GHz



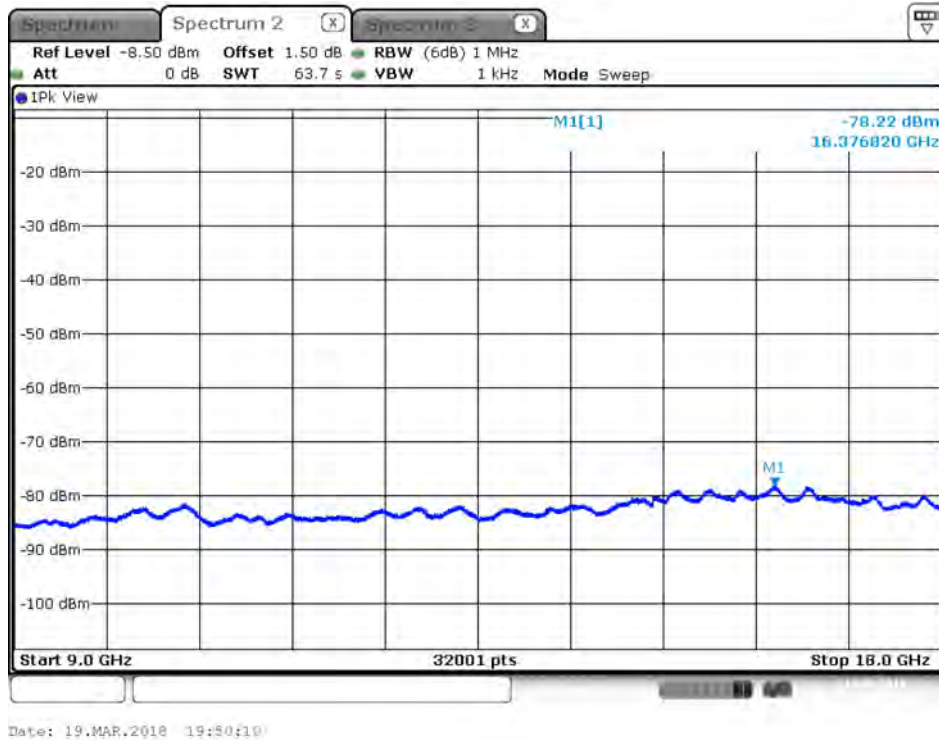
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 1 / 9GHz~18GHz



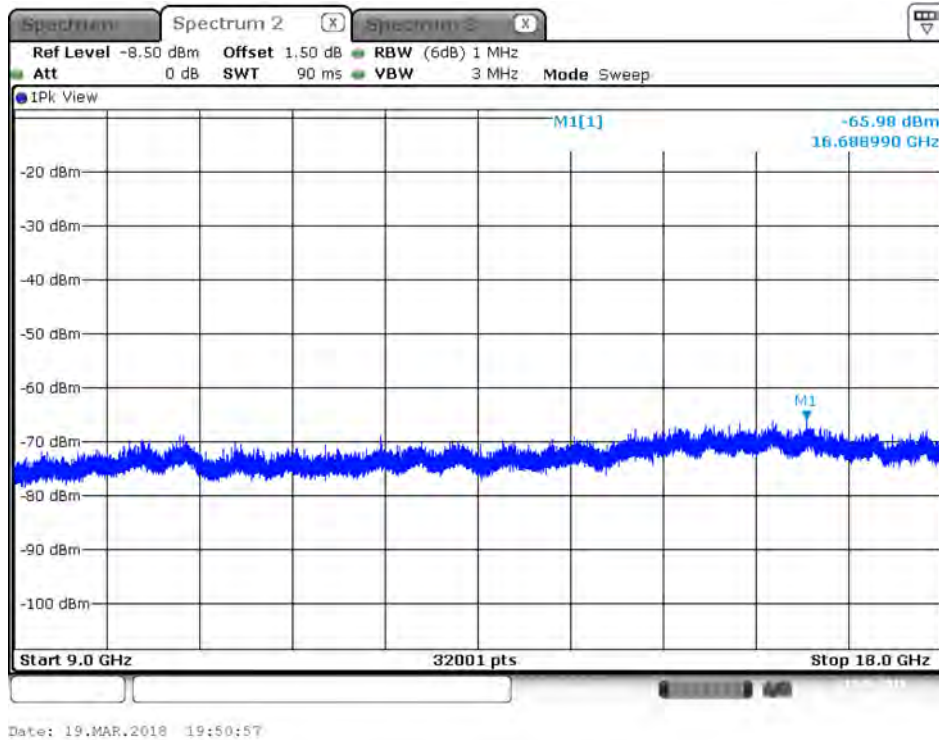
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 1 / 9GHz~18GHz



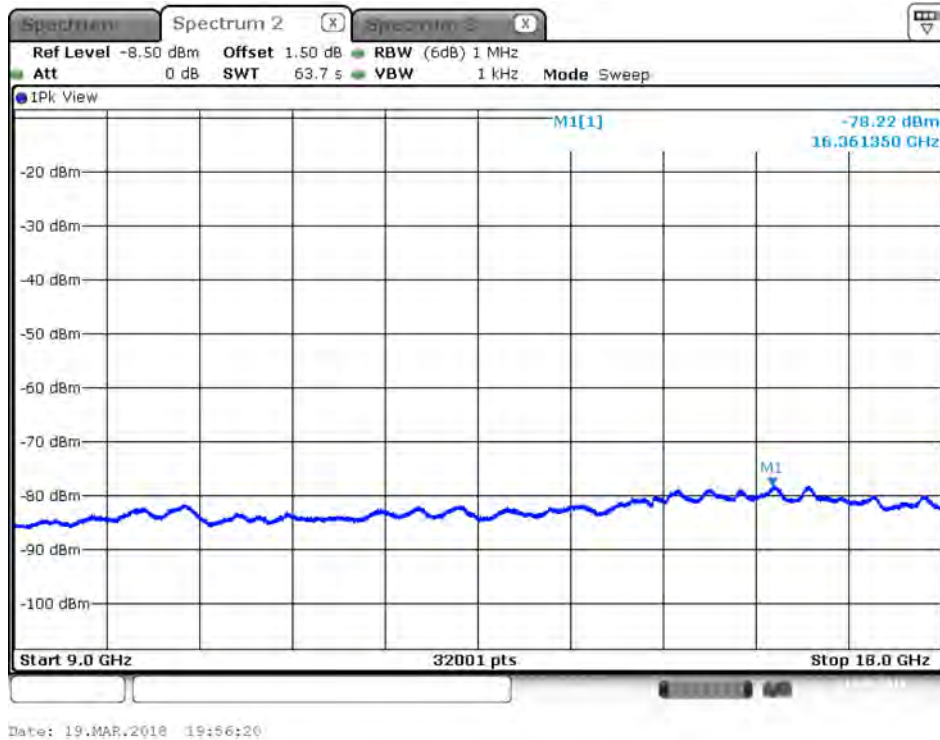
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 2 / 9GHz~18GHz



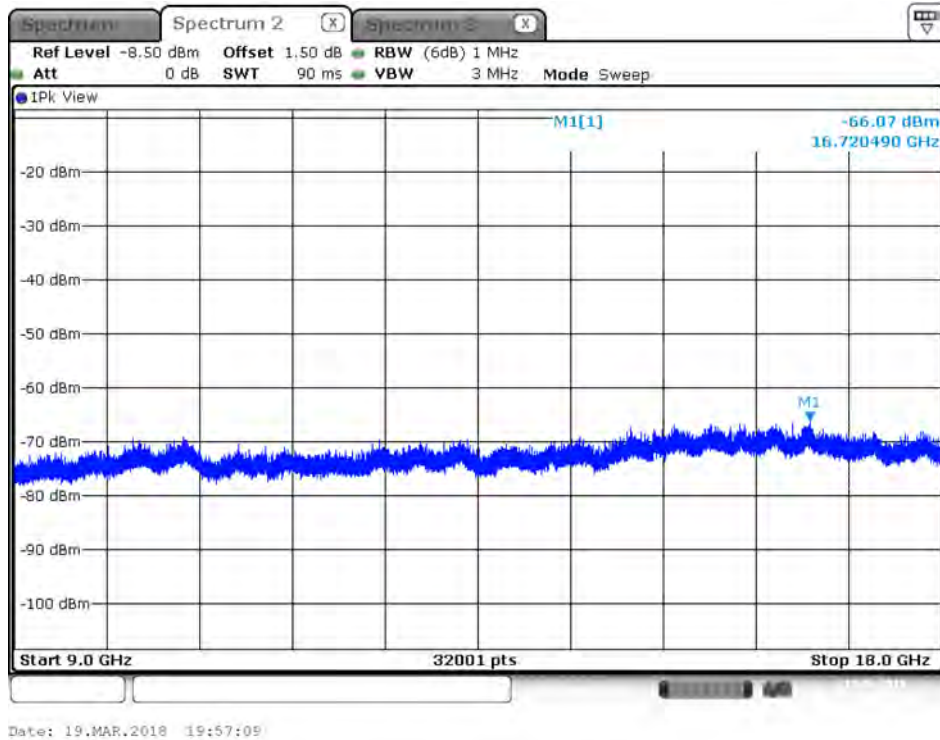
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 2 / 9GHz~18GHz



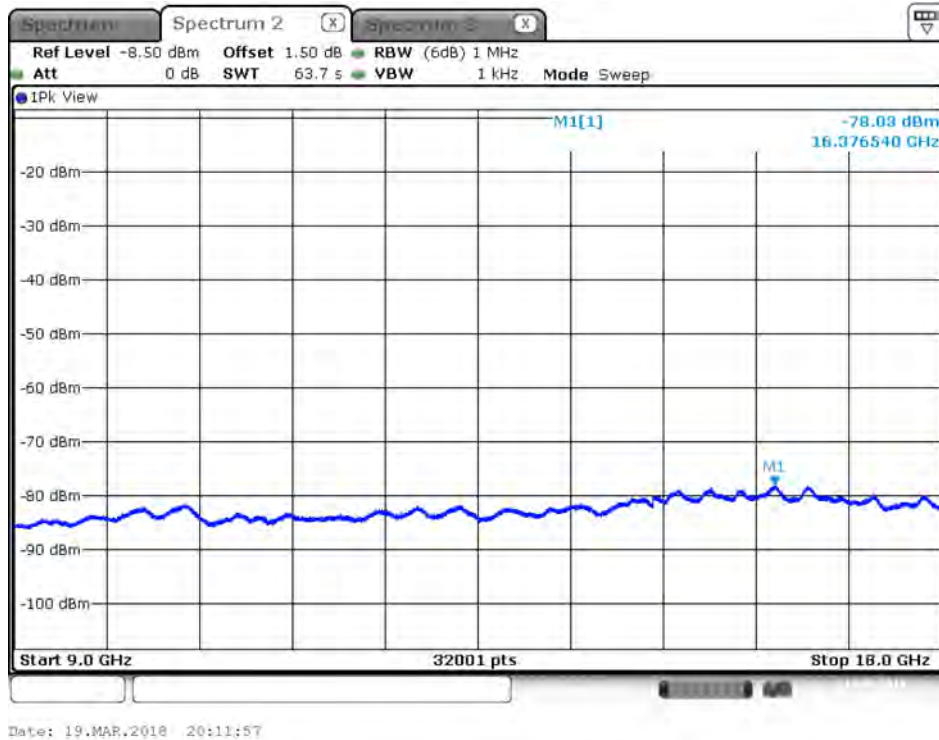
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 1 / 9GHz~18GHz



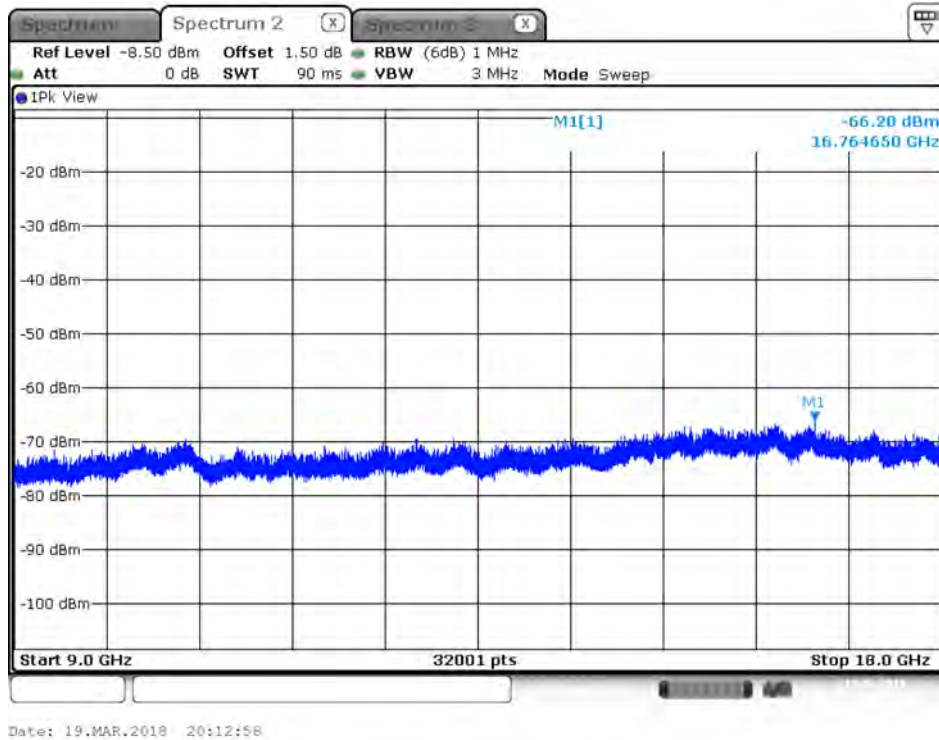
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 1 / 9GHz~18GHz



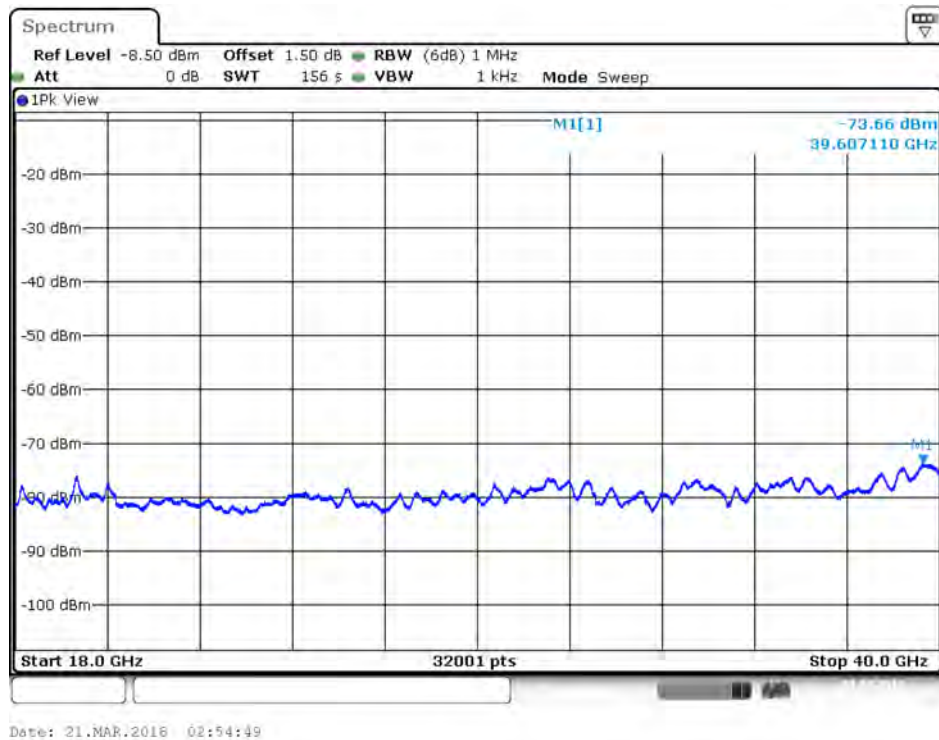
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 2 / 9GHz~18GHz



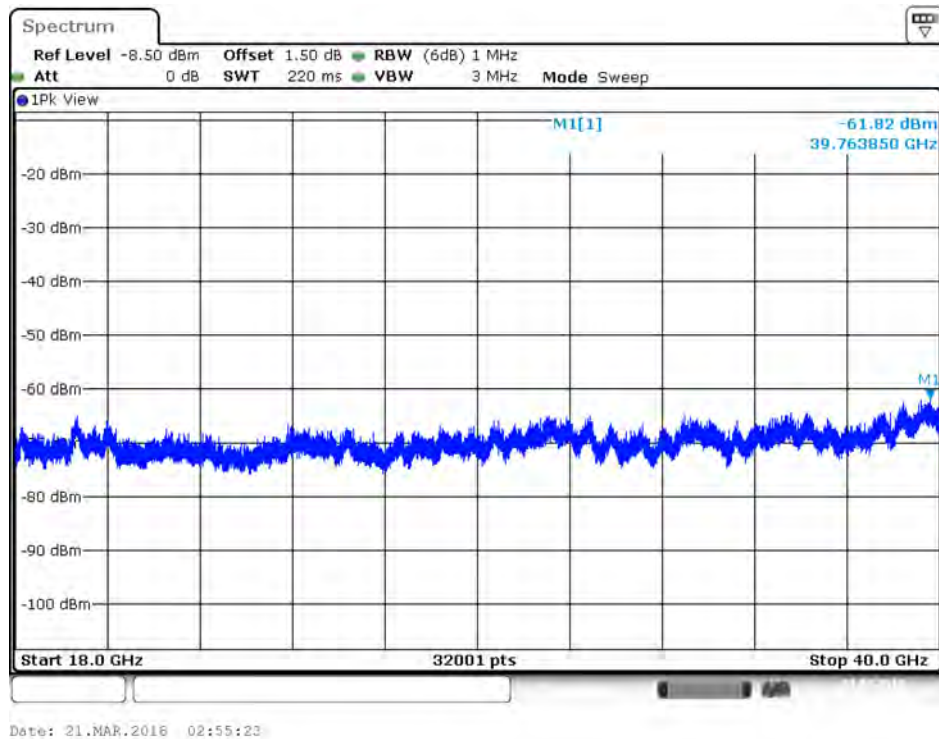
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 2 / 9GHz~18GHz



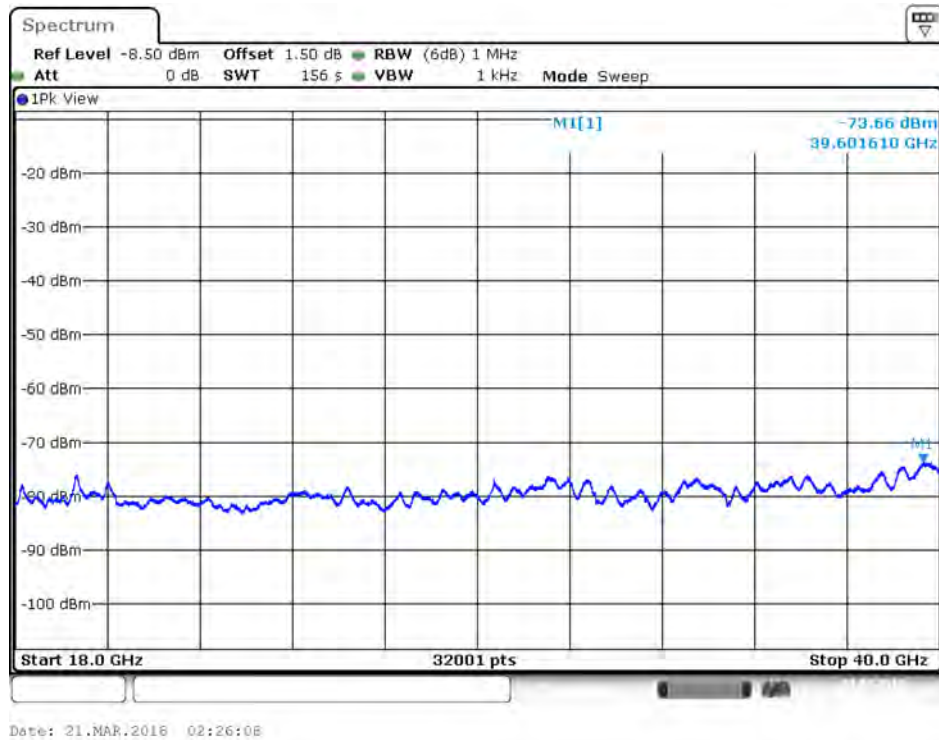
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 1 / 18GHz~40GHz



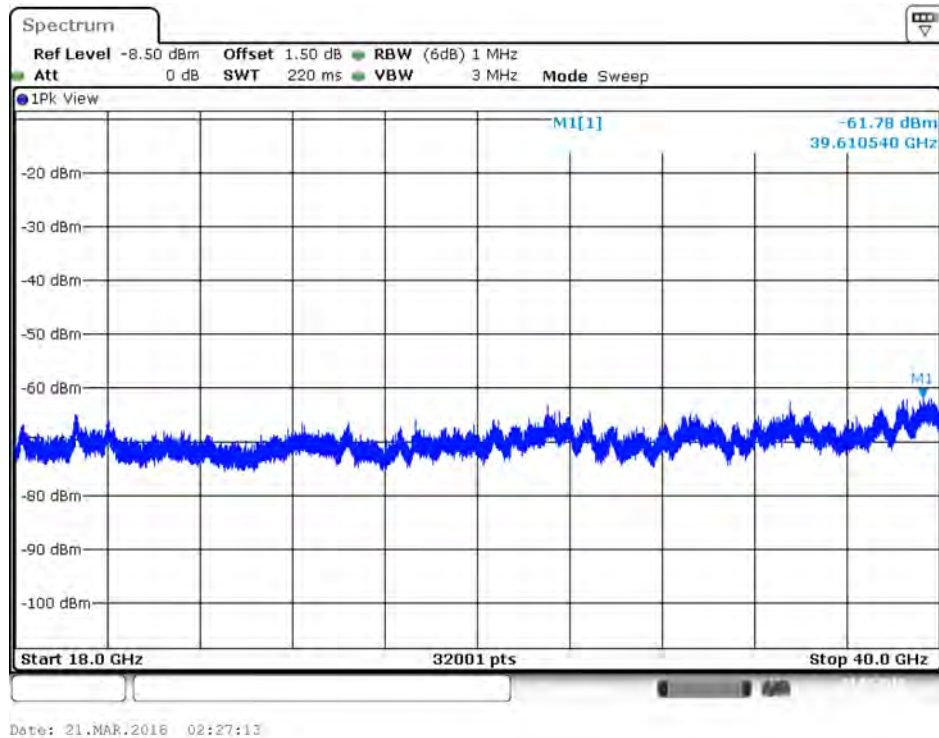
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 1 / 18GHz~40GHz



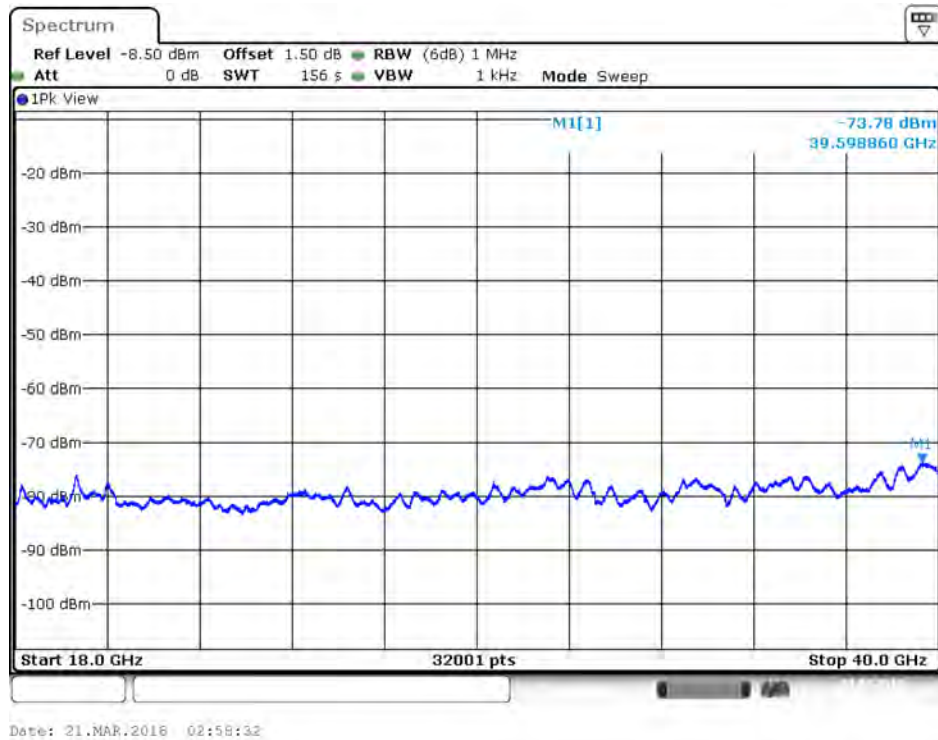
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Average / Port 2 / 18GHz~40GHz



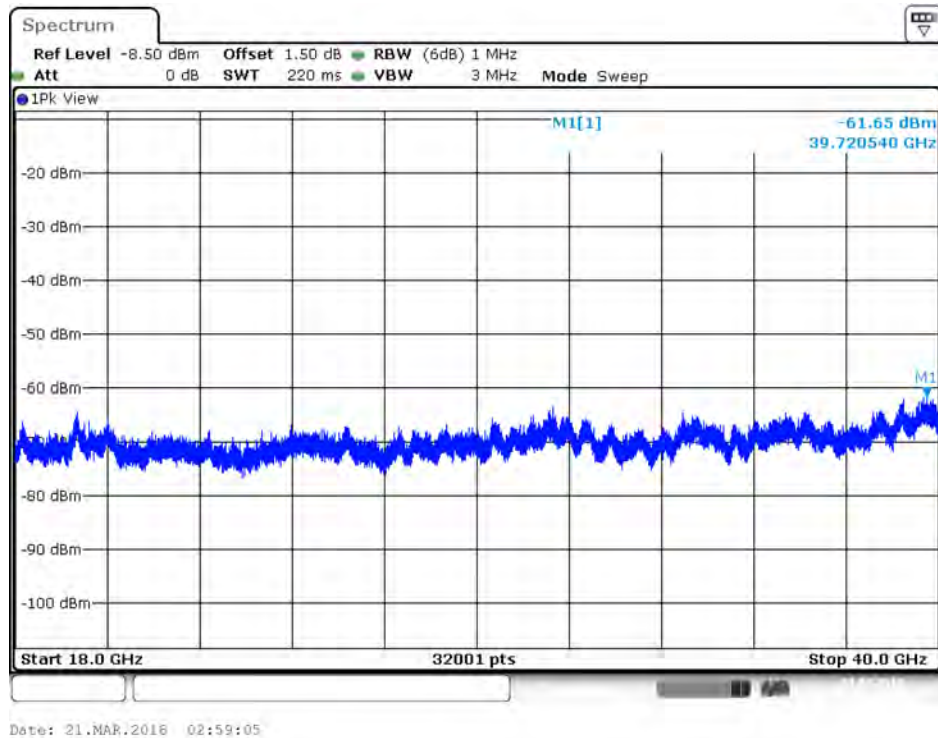
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5260 MHz / Peak / Port 2 / 18GHz~40GHz



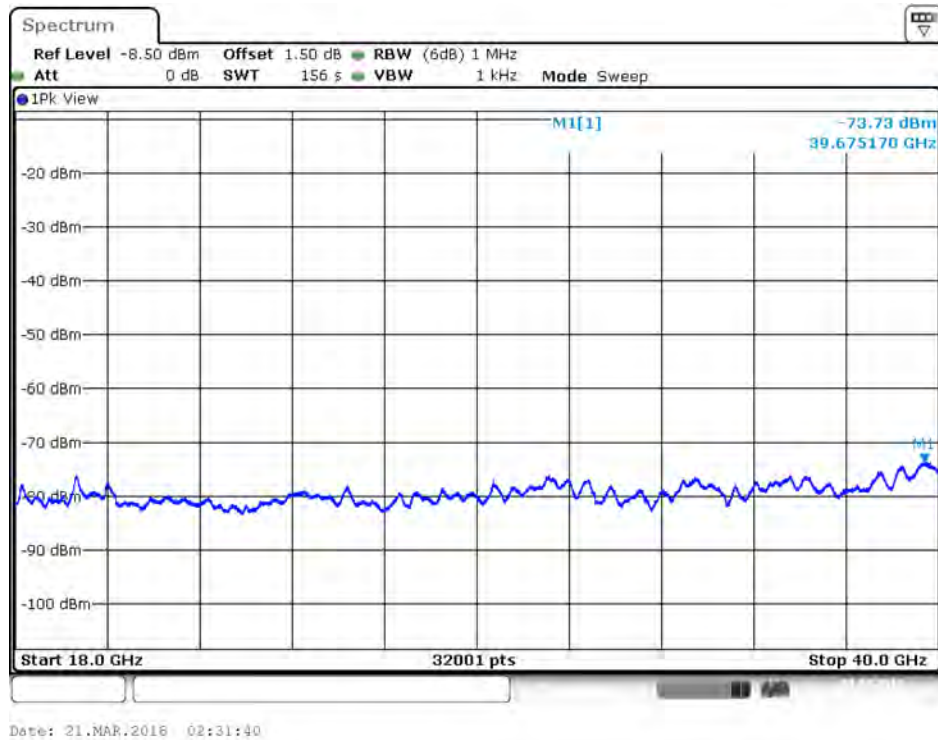
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 1 / 18GHz~40GHz



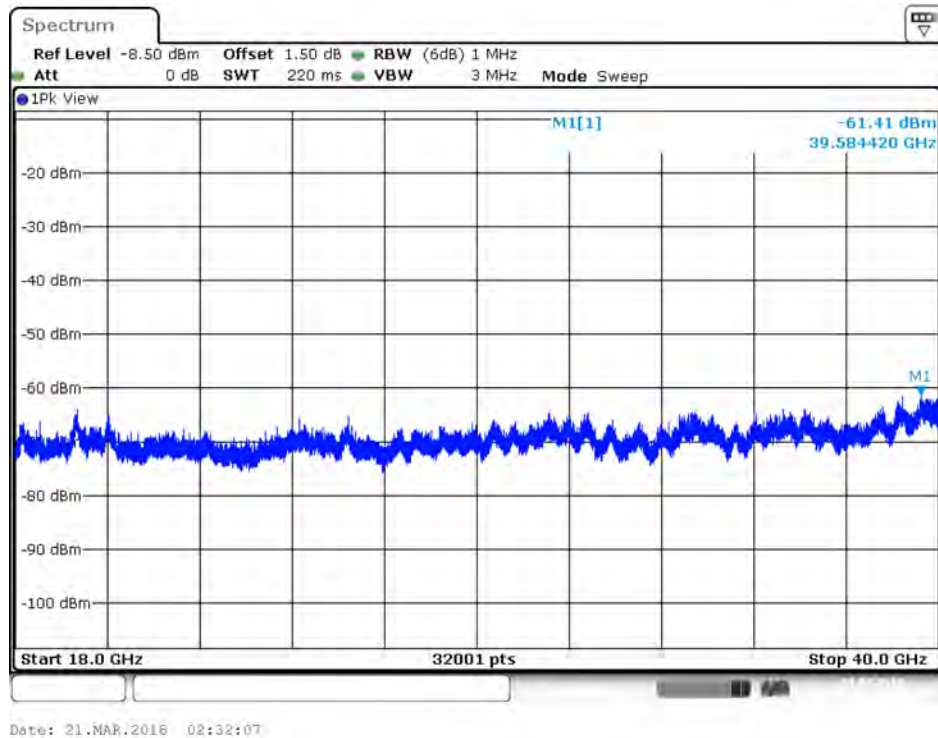
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 1 / 18GHz~40GHz



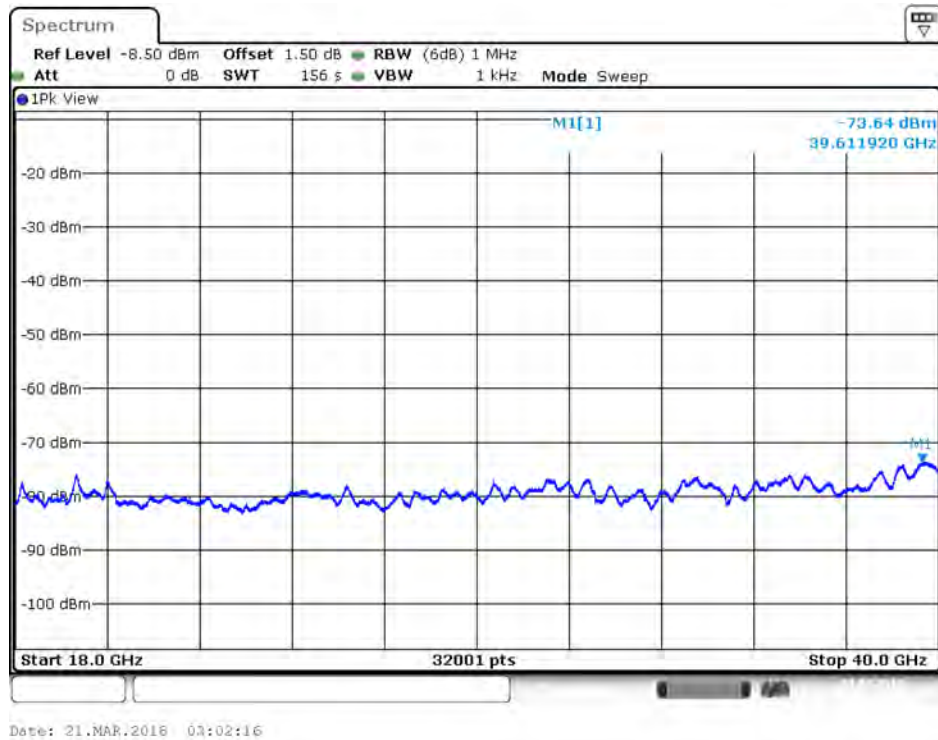
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Average / Port 2 / 18GHz~40GHz



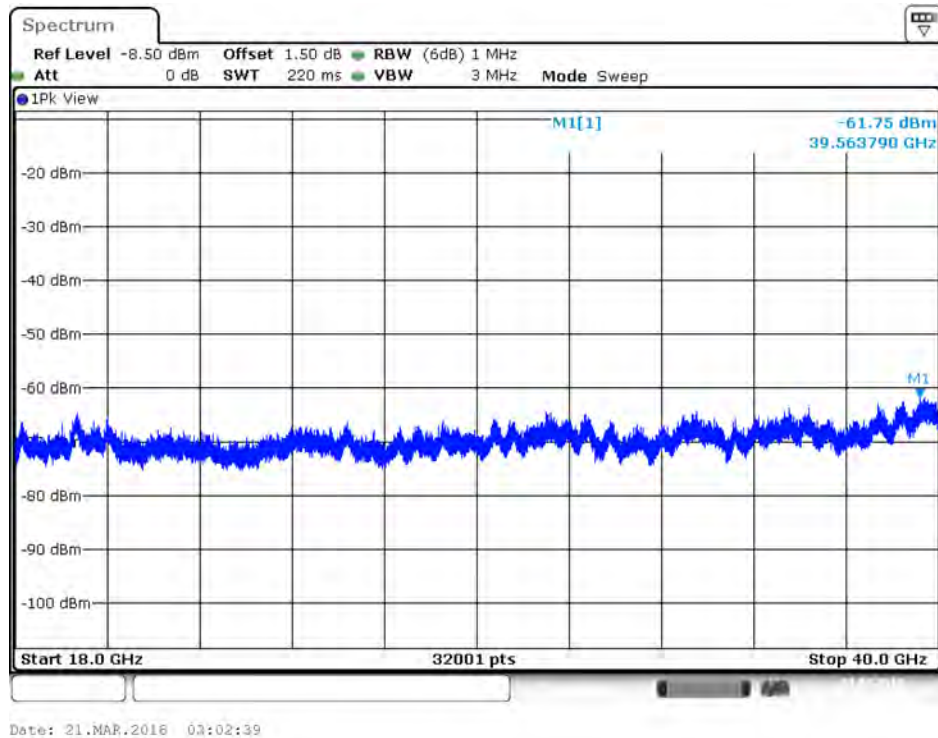
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5300 MHz / Peak / Port 2 / 18GHz~40GHz



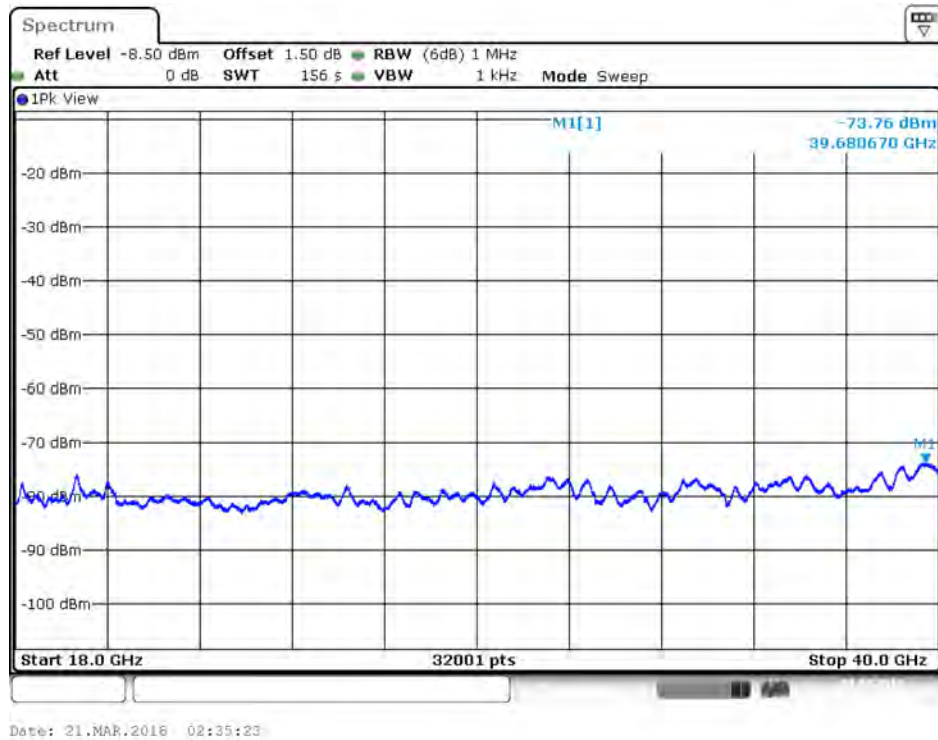
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 1 / 18GHz~40GHz



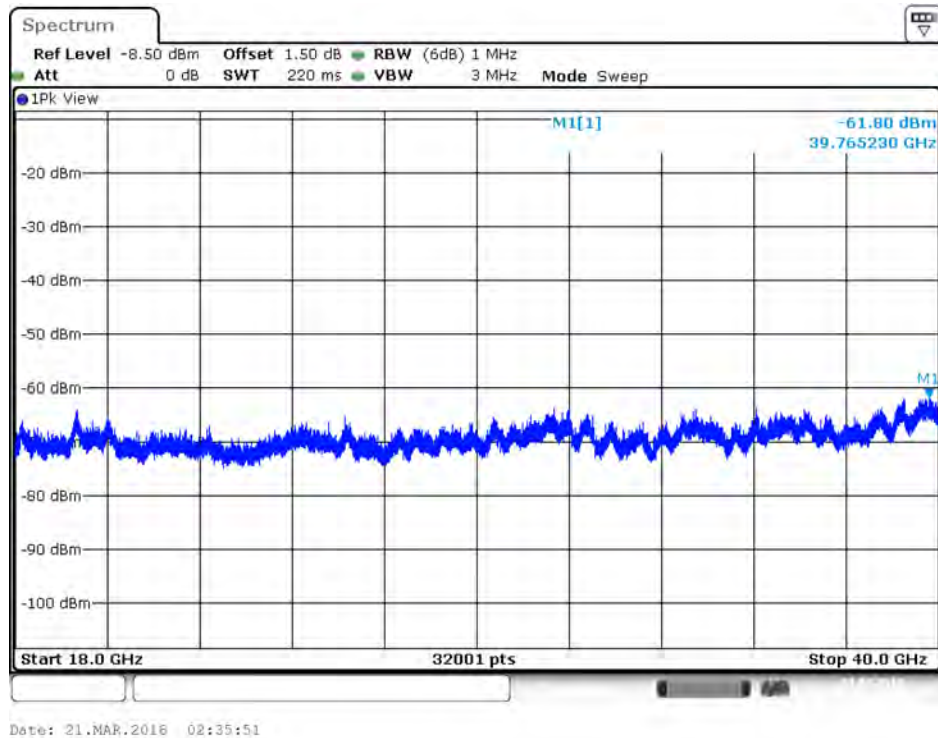
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Peak / Port 1 / 18GHz~40GHz



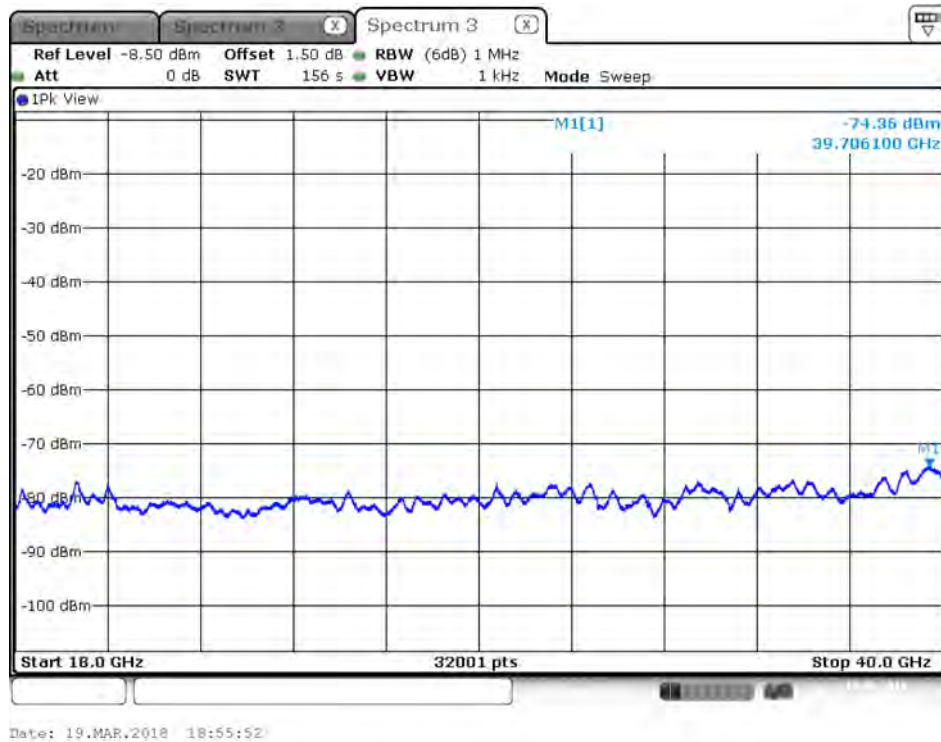
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Average / Port 2 / 18GHz~40GHz



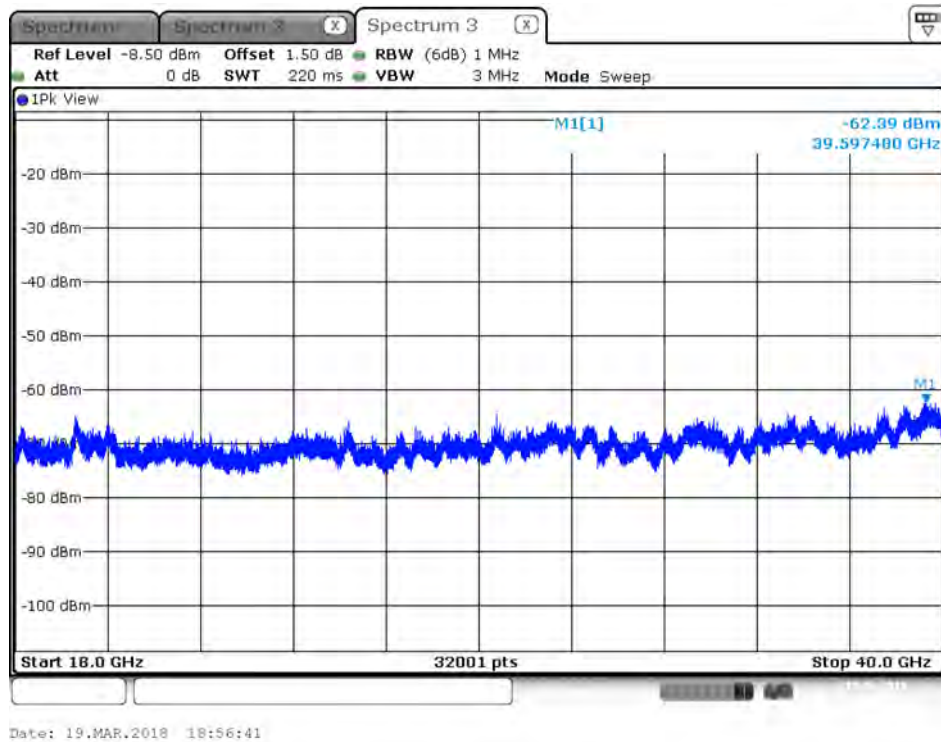
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5320 MHz / Peak / Port 2 / 18GHz~40GHz



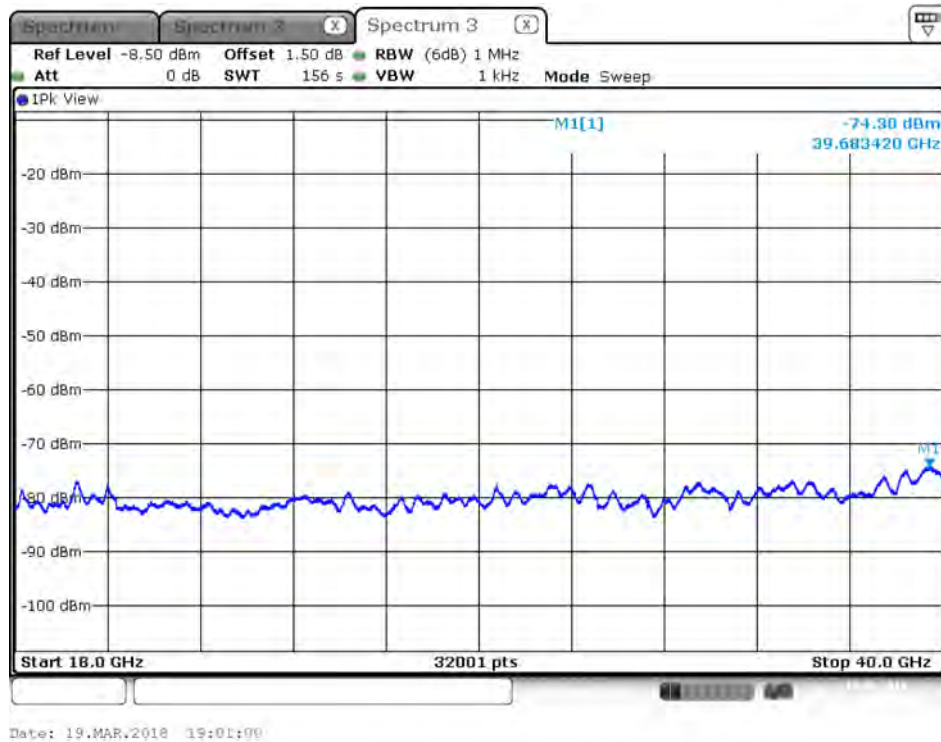
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 1 / 18GHz~40GHz



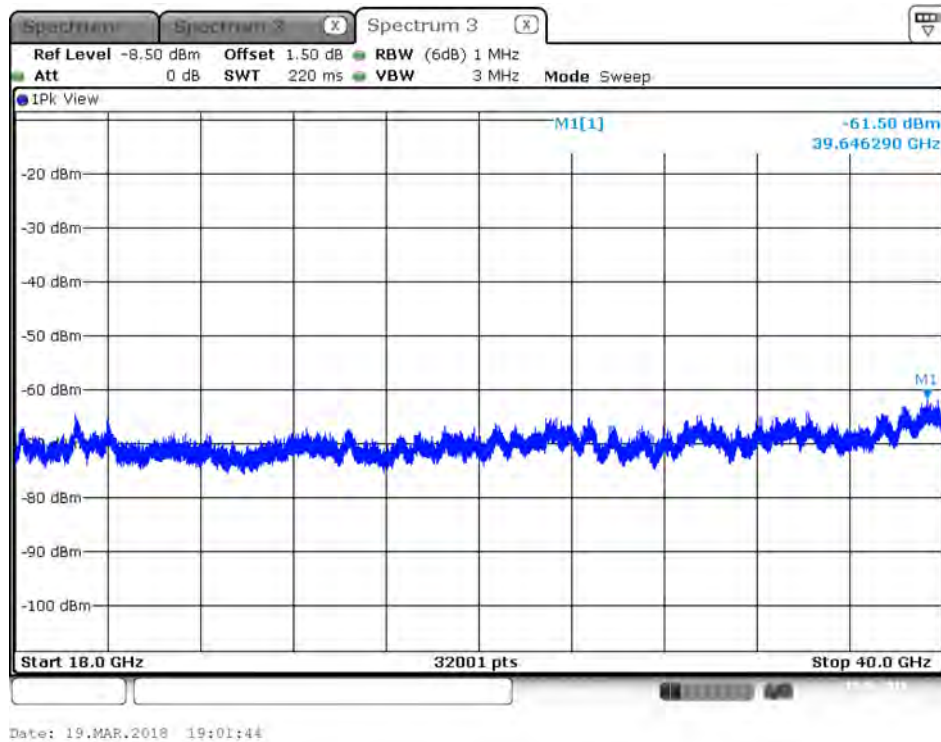
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 1 / 18GHz~40GHz



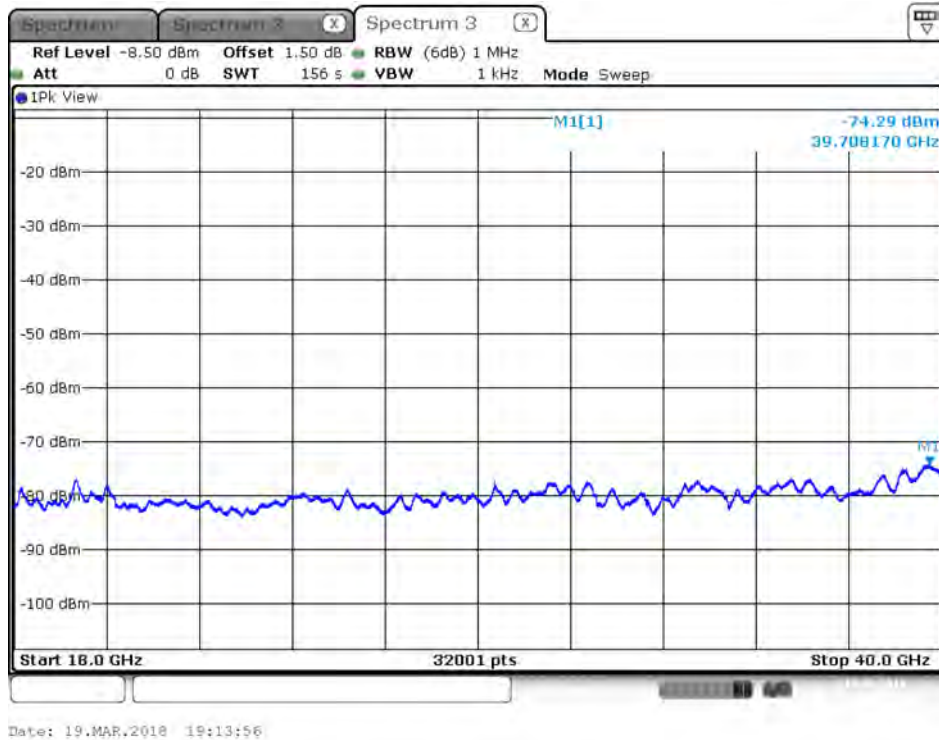
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Average / Port 2 / 18GHz~40GHz



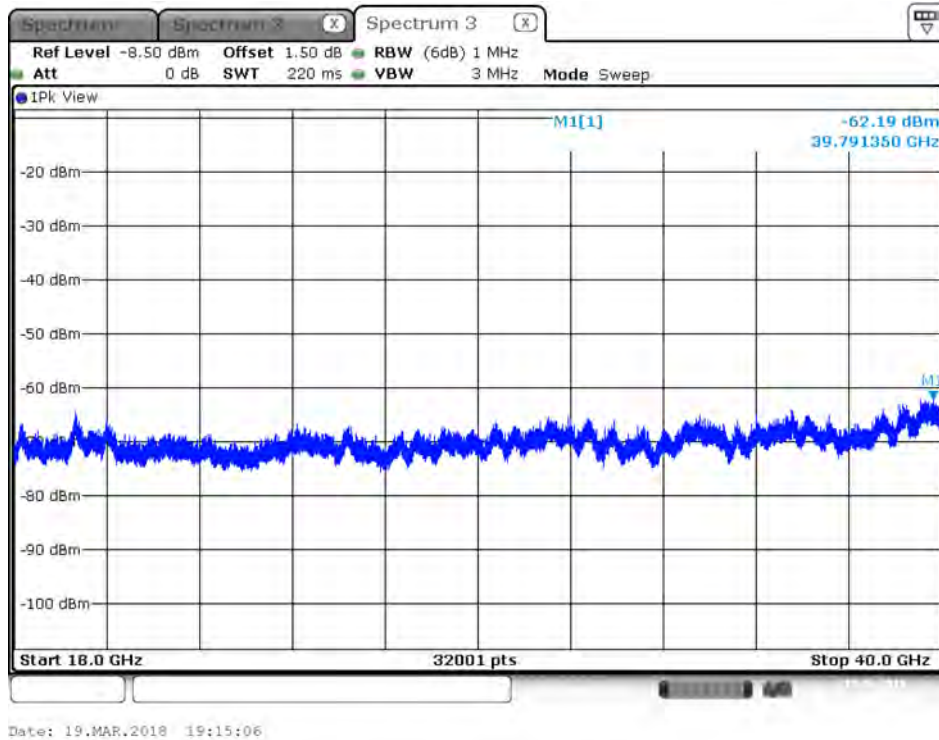
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5500 MHz / Peak / Port 2 / 18GHz~40GHz



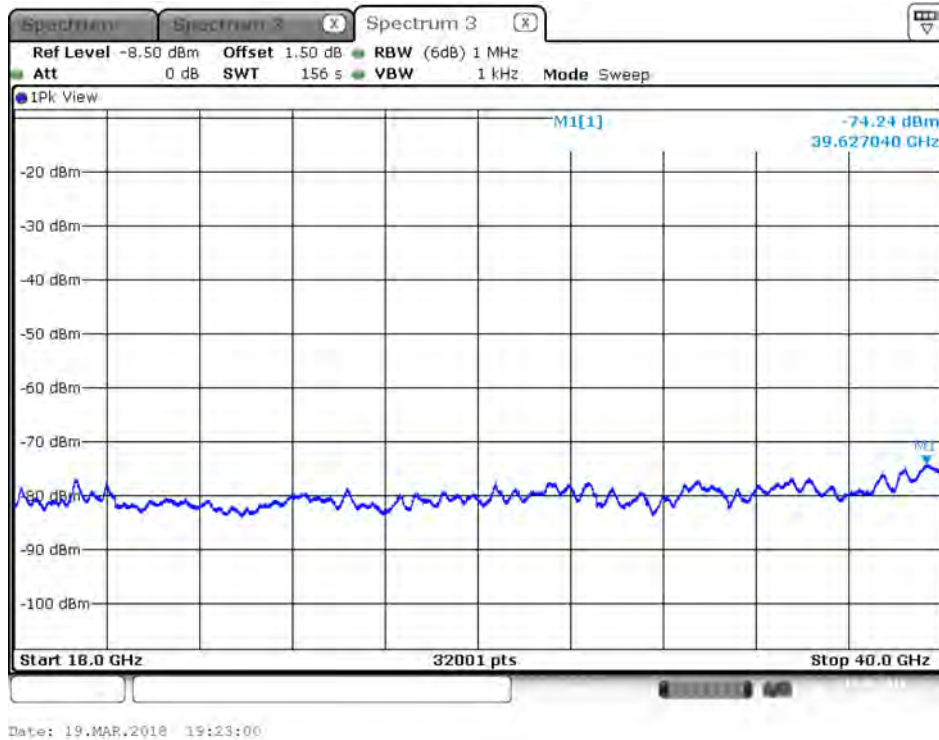
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 1 / 18GHz~40GHz



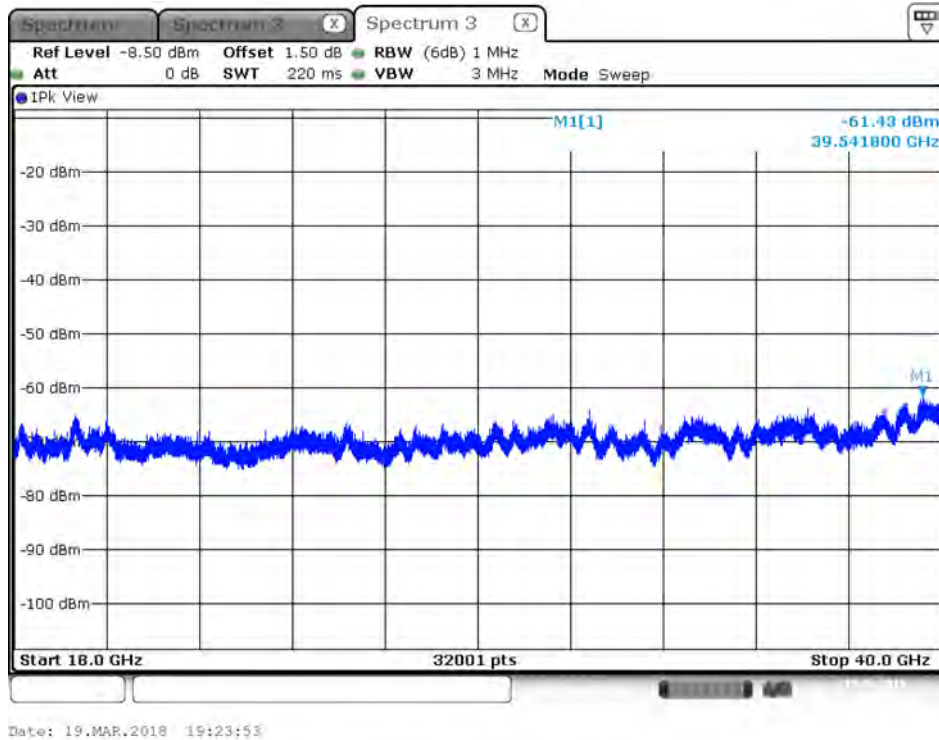
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 1 / 18GHz~40GHz



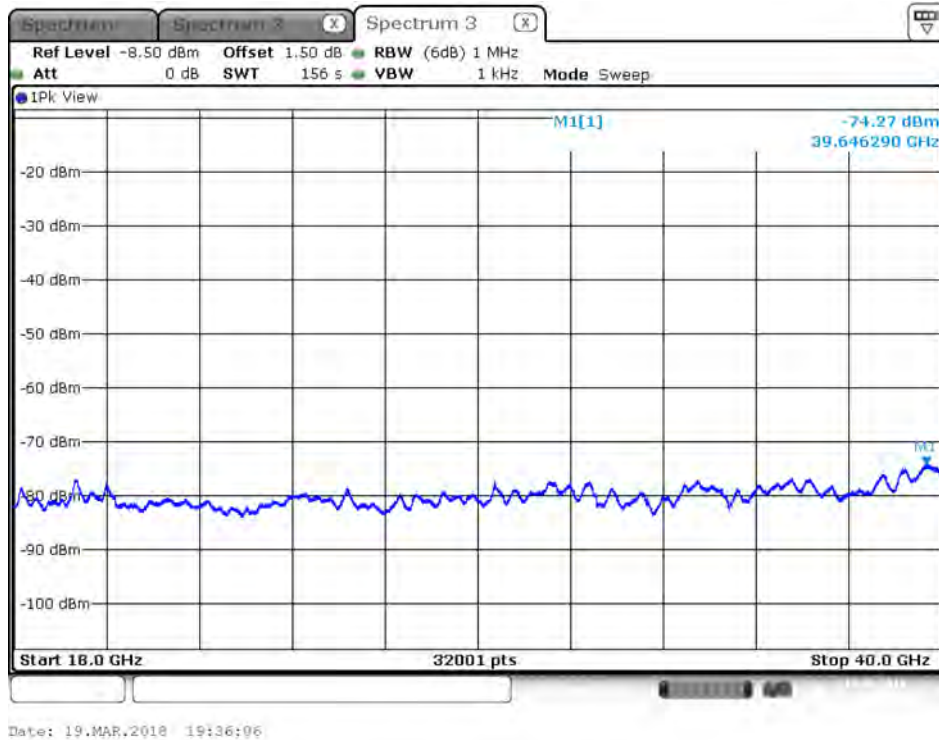
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Average / Port 2 / 18GHz~40GHz



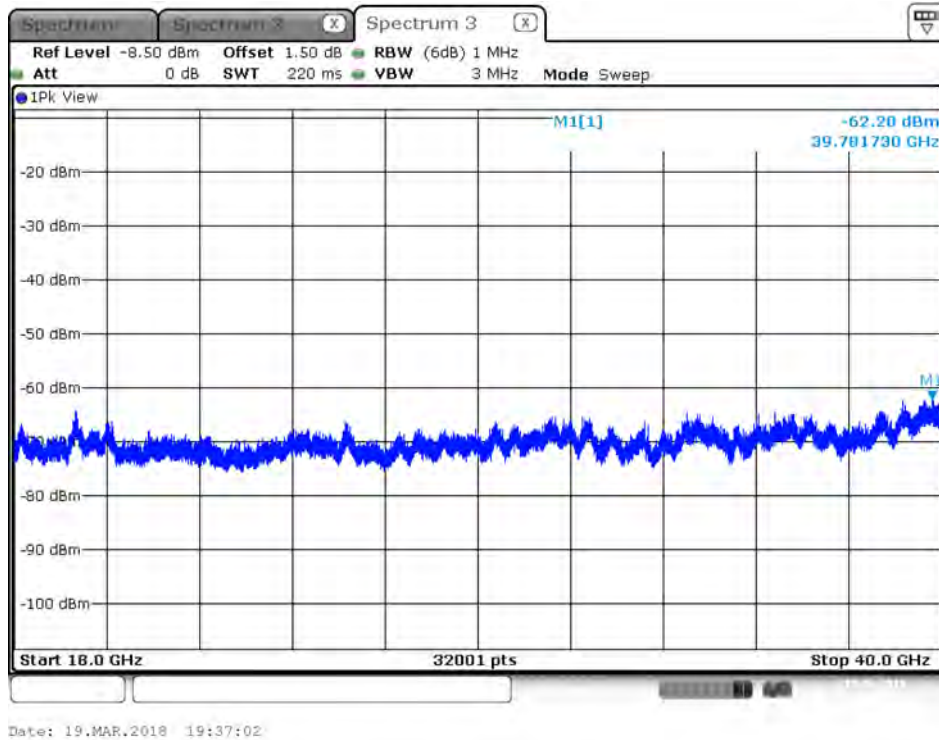
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5580 MHz / Peak / Port 2 / 18GHz~40GHz



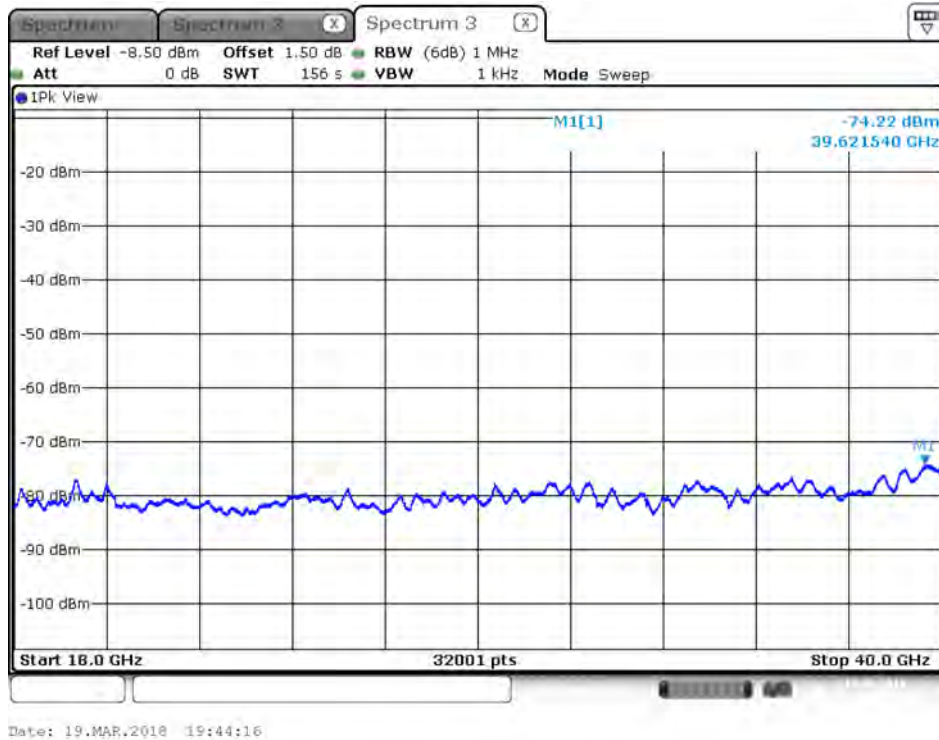
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 1 / 18GHz~40GHz



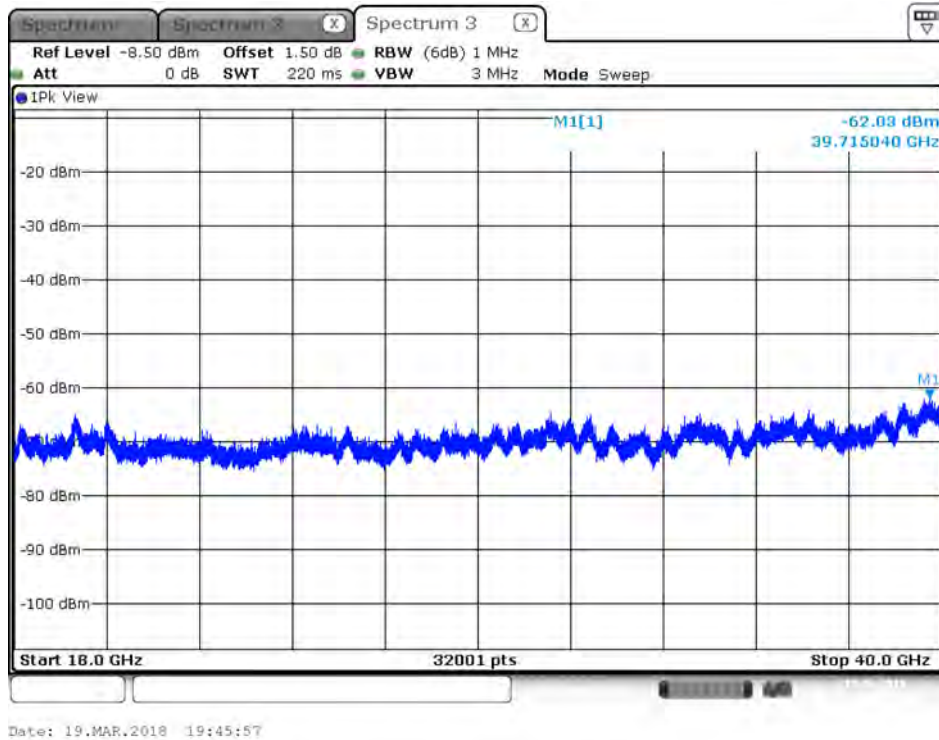
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 1 / 18GHz~40GHz



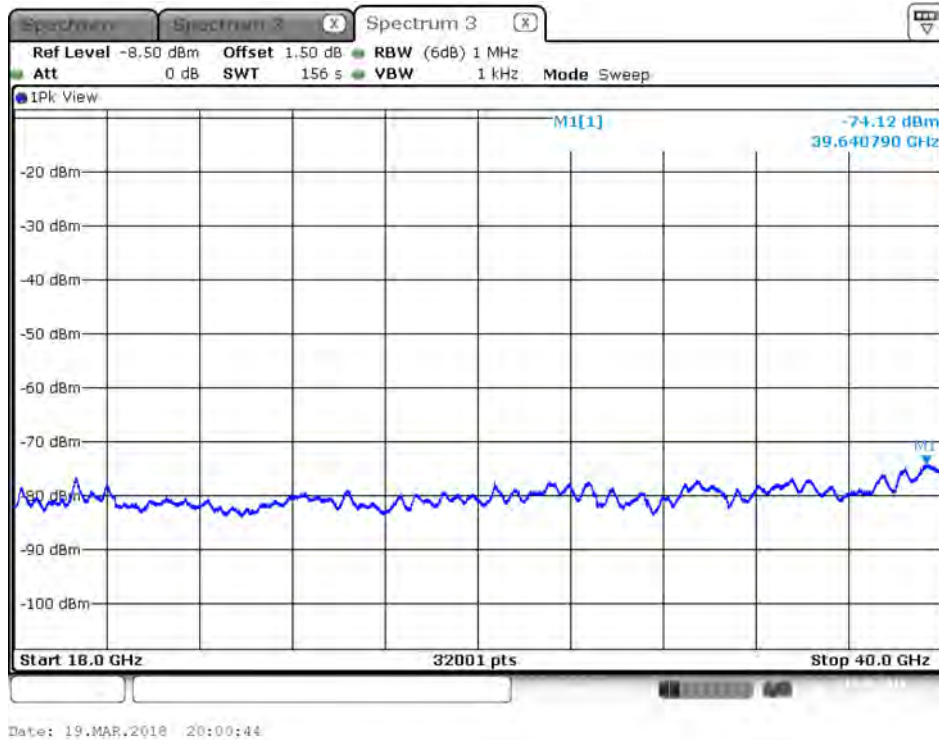
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Average / Port 2 / 18GHz~40GHz



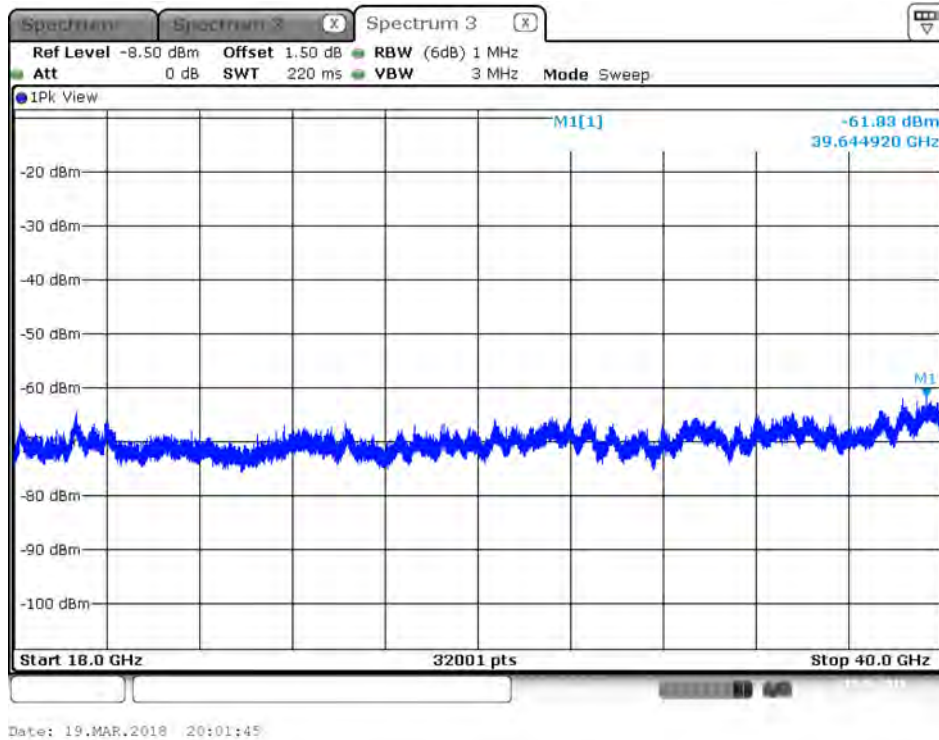
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5700 MHz / Peak / Port 2 / 18GHz~40GHz



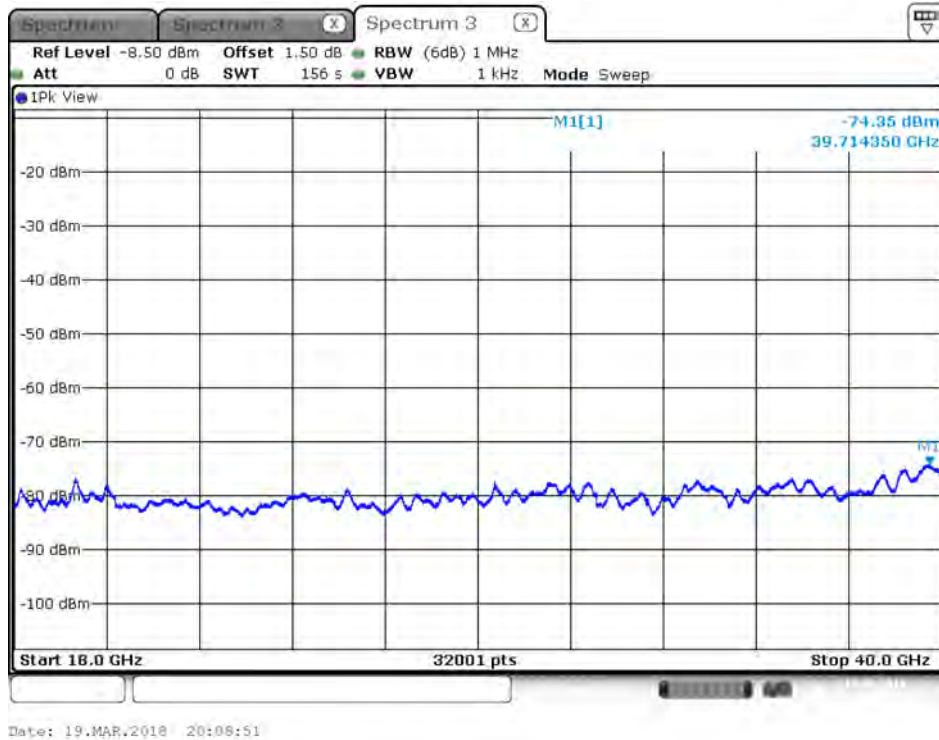
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 1 / 18GHz~40GHz



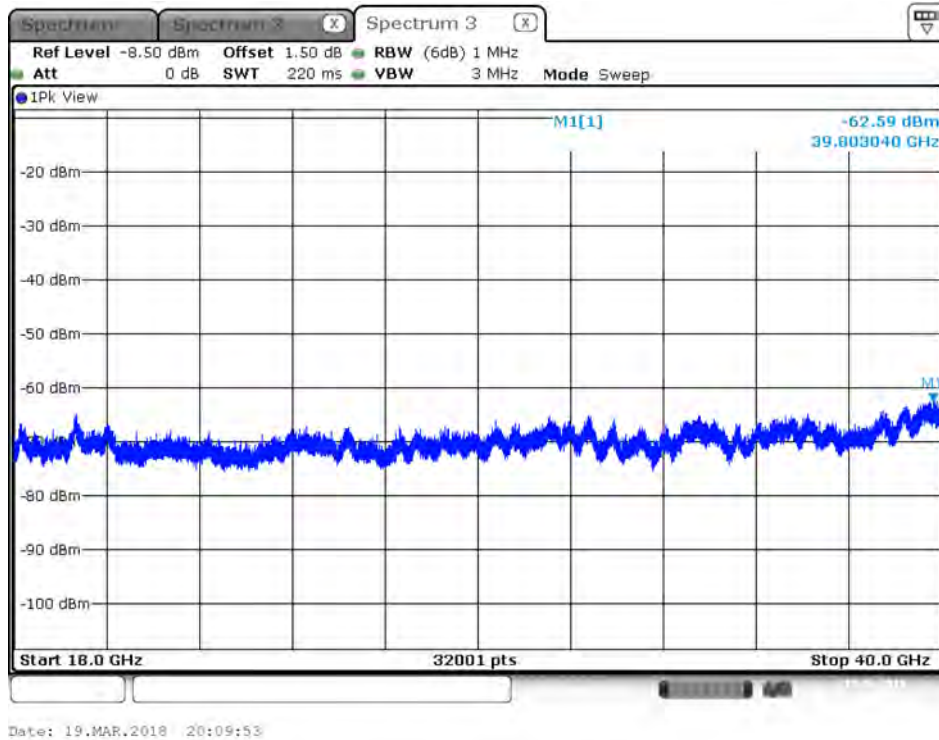
Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 1 / 18GHz~40GHz



Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Average / Port 2 / 18GHz~40GHz



Plot on IEEE 802.11ac Nss1 MCS0 VHT20 / 5720 MHz / Peak / Port 2 / 18GHz~40GHz



IEEE 802.11ac Nss1 MCS0 VHT80 1GHz~3GHz
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-84.97	-85.12	-66.03	-41.25	24.78
5530	16.00	-85.79	-85.77	-66.77	-41.25	25.52
5610	16.00	-85.78	-85.72	-66.74	-41.25	25.49
5690	16.00	-85.75	-85.71	-66.72	-41.25	25.47

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-71.82	-72.42	-53.10	-21.25	31.85
5530	16.00	-73.03	-71.60	-53.25	-21.25	32.00
5610	16.00	-72.40	-72.76	-53.57	-21.25	32.32
5690	16.00	-72.53	-72.66	-53.58	-21.25	32.33

IEEE 802.11ac Nss1 MCS0 VHT80 3GHz~6GHz
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-64.72	-63.46	-45.03	-41.25	3.78
5530	16.00	-64.99	-65.88	-46.40	-41.25	5.15
5610	16.00	-61.58	-65.52	-44.11	-41.25	2.86
5690	16.00	-67.56	-64.45	-46.72	-41.25	5.47

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-51.93	-51.80	-32.85	-21.25	11.60
5530	16.00	-53.73	-54.86	-35.25	-21.25	14.00
5610	16.00	-52.79	-57.41	-35.50	-21.25	14.25
5690	16.00	-55.30	-54.95	-36.11	-21.25	14.86

**IEEE 802.11ac Nss1 MCS0 VHT80 6GHz~9GHz
Average**

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-77.13	-72.53	-55.24	-41.25	13.99
5530	16.00	-75.95	-71.96	-54.50	-41.25	13.25
5610	16.00	-71.67	-71.70	-52.67	-41.25	11.42
5690	16.00	-72.38	-70.93	-52.58	-41.25	11.33

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-64.61	-64.57	-45.58	-21.25	24.33
5530	16.00	-63.92	-63.73	-44.81	-21.25	23.56
5610	16.00	-60.70	-63.78	-42.96	-21.25	21.71
5690	16.00	-60.31	-59.83	-41.05	-21.25	19.80

**IEEE 802.11ac Nss1 MCS0 VHT80 9GHz~18GHz
Average**

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-78.04	-78.01	-59.01	-41.25	17.76
5530	16.00	-78.30	-78.13	-59.20	-41.25	17.95
5610	16.00	-78.11	-78.17	-59.13	-41.25	17.88
5690	16.00	-78.23	-78.21	-59.21	-41.25	17.96

Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-65.58	-65.65	-46.60	-21.25	25.35
5530	16.00	-66.46	-65.87	-47.14	-21.25	25.89
5610	16.00	-66.56	-66.91	-47.72	-21.25	26.47
5690	16.00	-66.50	-66.64	-47.56	-21.25	26.31

IEEE 802.11ac Nss1 MCS0 VHT80 18GHz~40GHz

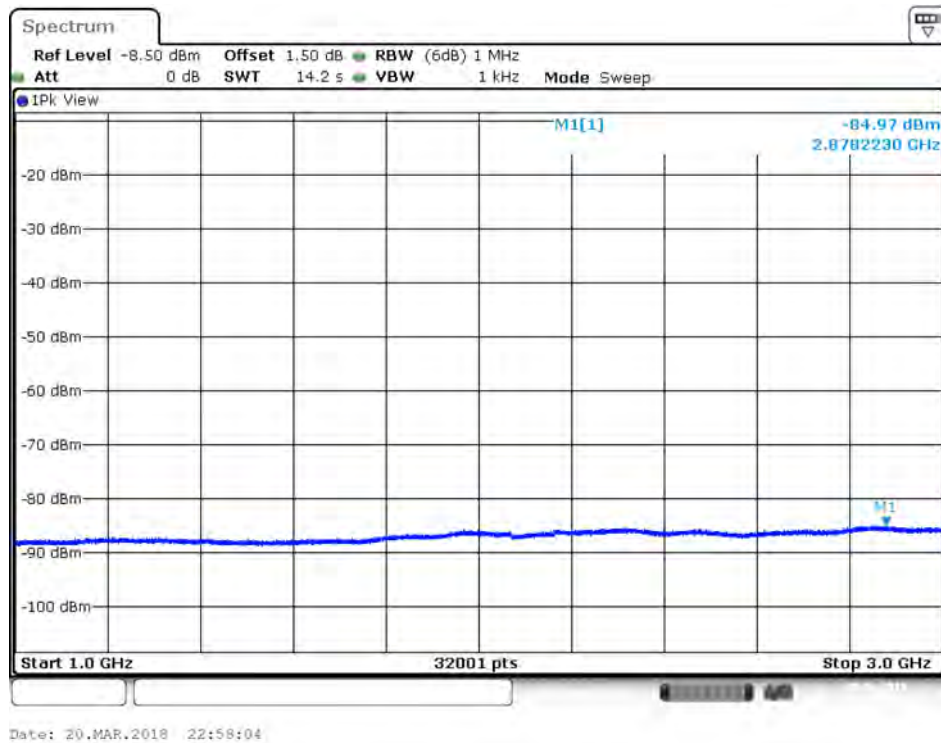
Average

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-73.62	-73.73	-54.66	-41.25	13.41
5530	16.00	-74.24	-74.33	-55.27	-41.25	14.02
5610	16.00	-74.29	-74.15	-55.21	-41.25	13.96
5690	16.00	-74.16	-74.12	-55.13	-41.25	13.88

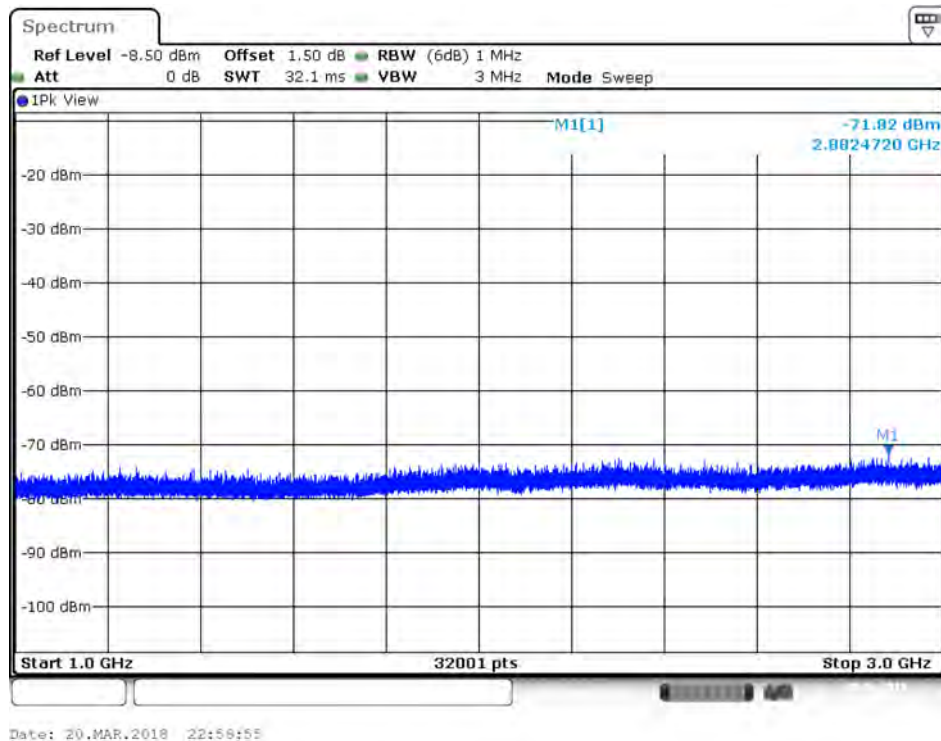
Peak

Frequency (MHz)	Correlated Antenna Gain (dBi)	TX1 Spurious Level (dBm)	TX2 Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	16.00	-61.72	-61.15	-42.42	-21.25	21.17
5530	16.00	-62.32	-62.06	-43.18	-21.25	21.93
5610	16.00	-61.80	-62.04	-42.91	-21.25	21.66
5690	16.00	-62.10	-61.80	-42.94	-21.25	21.69

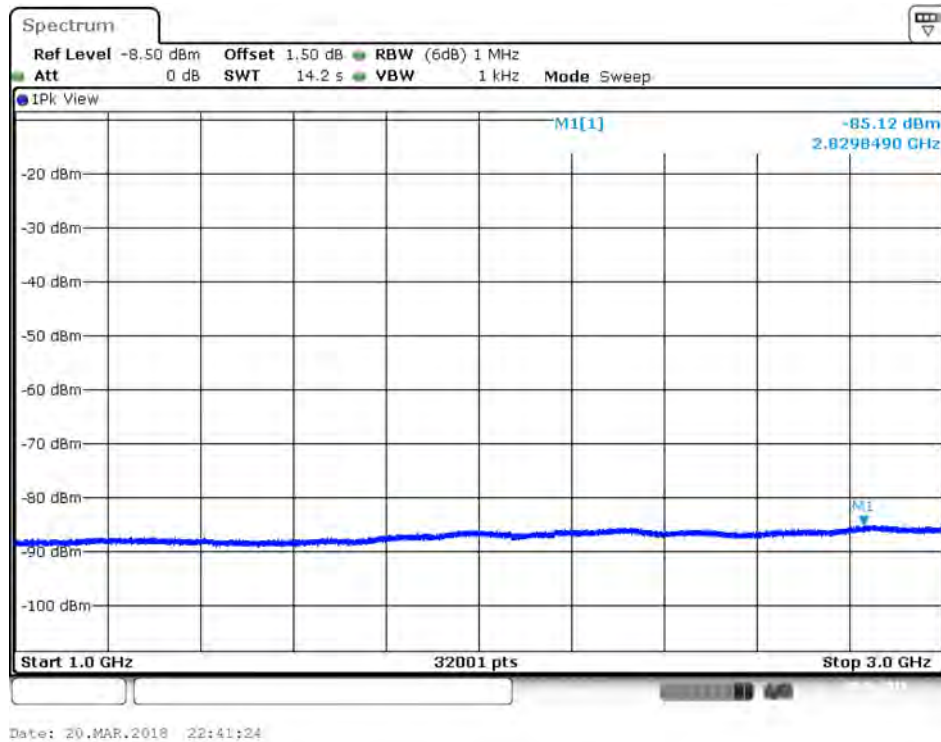
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Average / Port 1 / 1GHz~3GHz



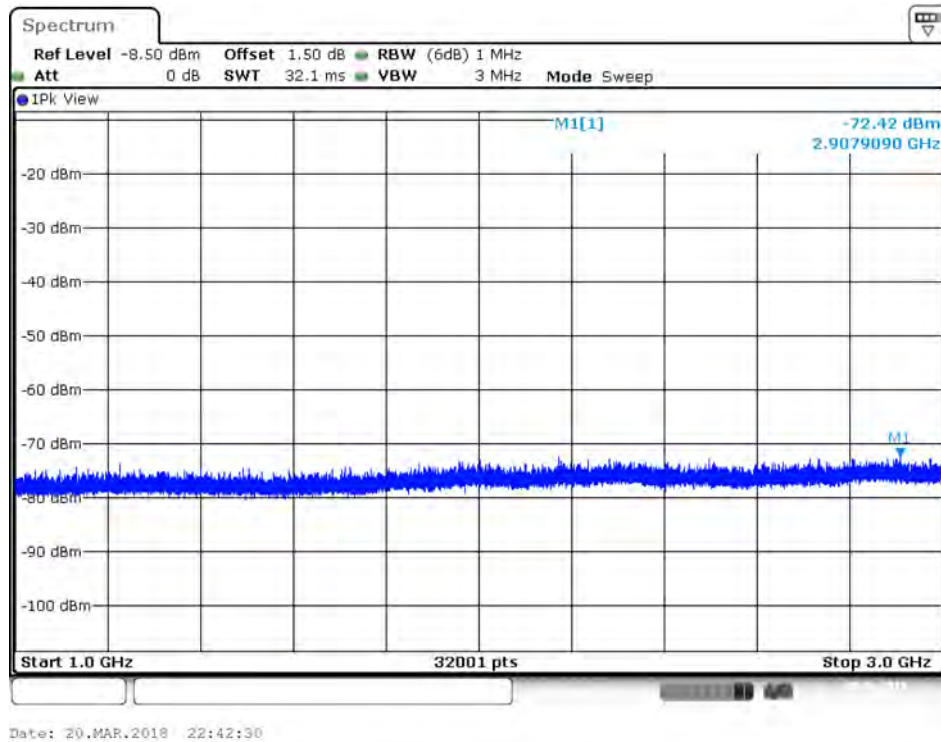
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Peak / Port 1 / 1GHz~3GHz



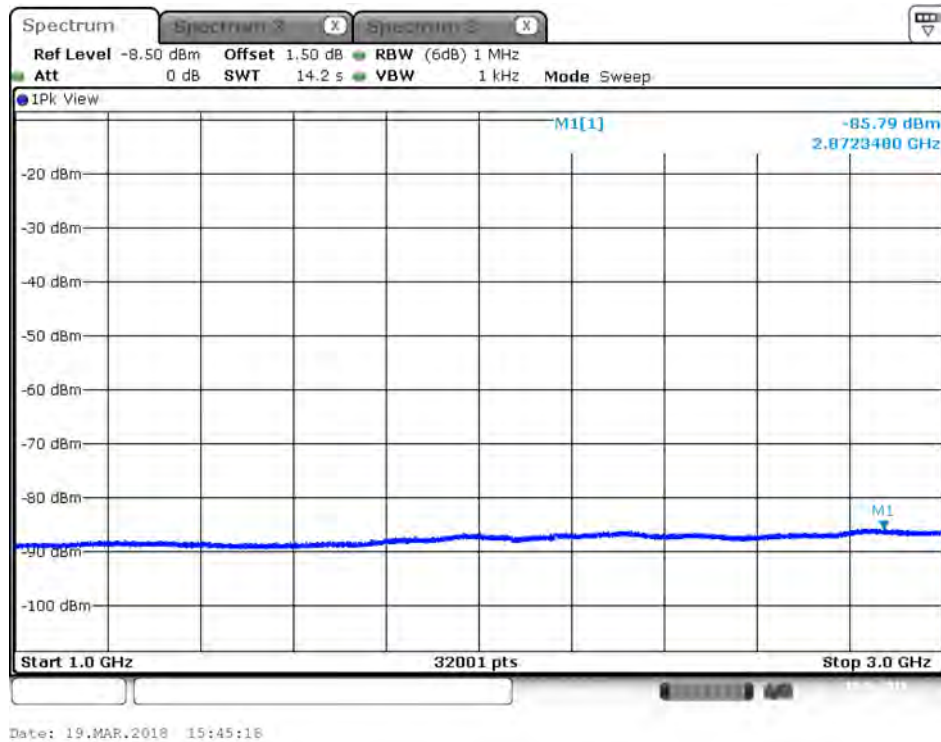
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Average / Port 2 / 1GHz~3GHz



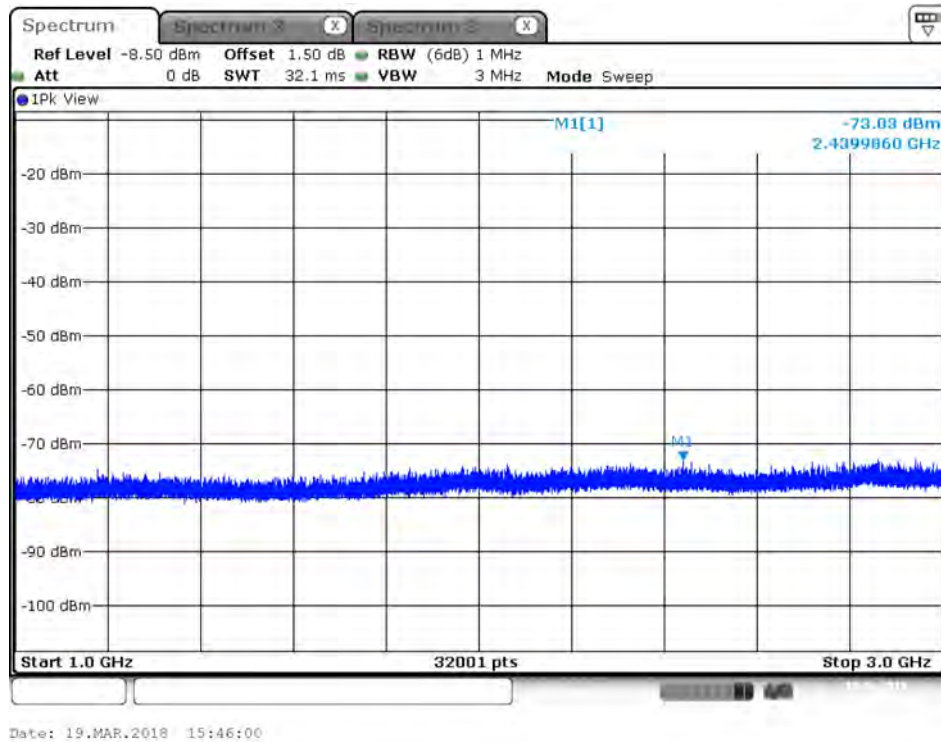
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Peak / Port 2 / 1GHz~3GHz



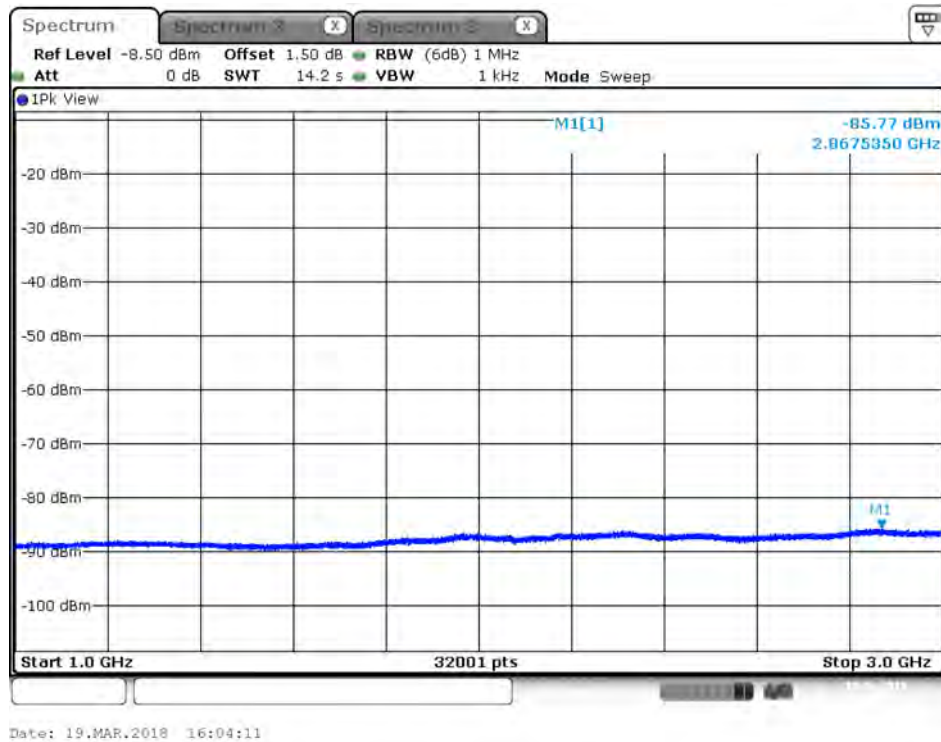
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Average / Port 1 / 1GHz~3GHz



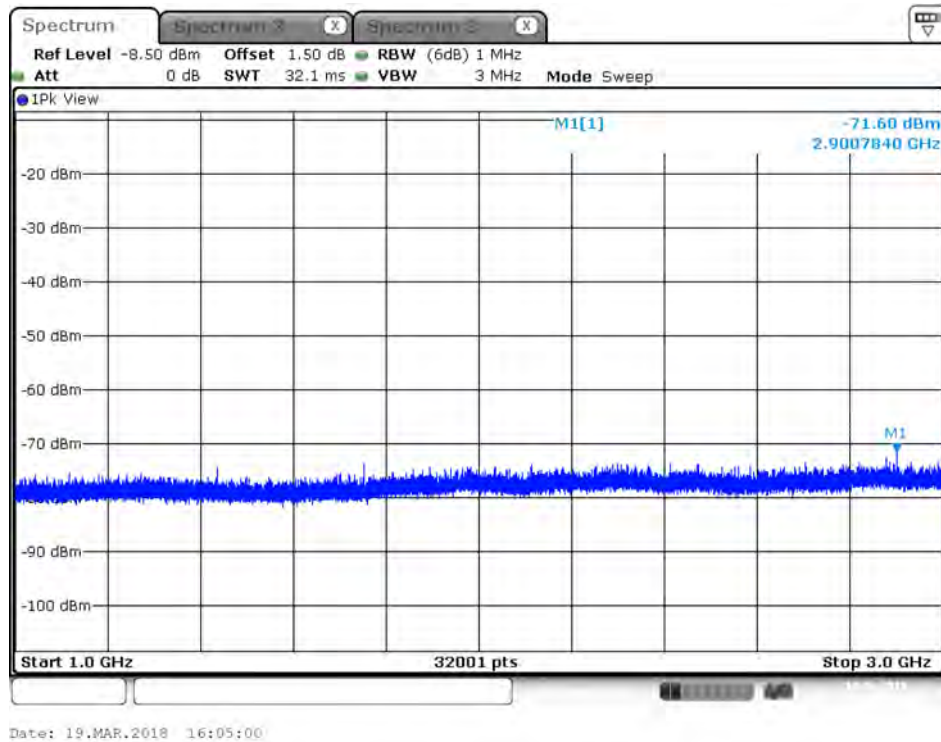
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Peak / Port 1 / 1GHz~3GHz



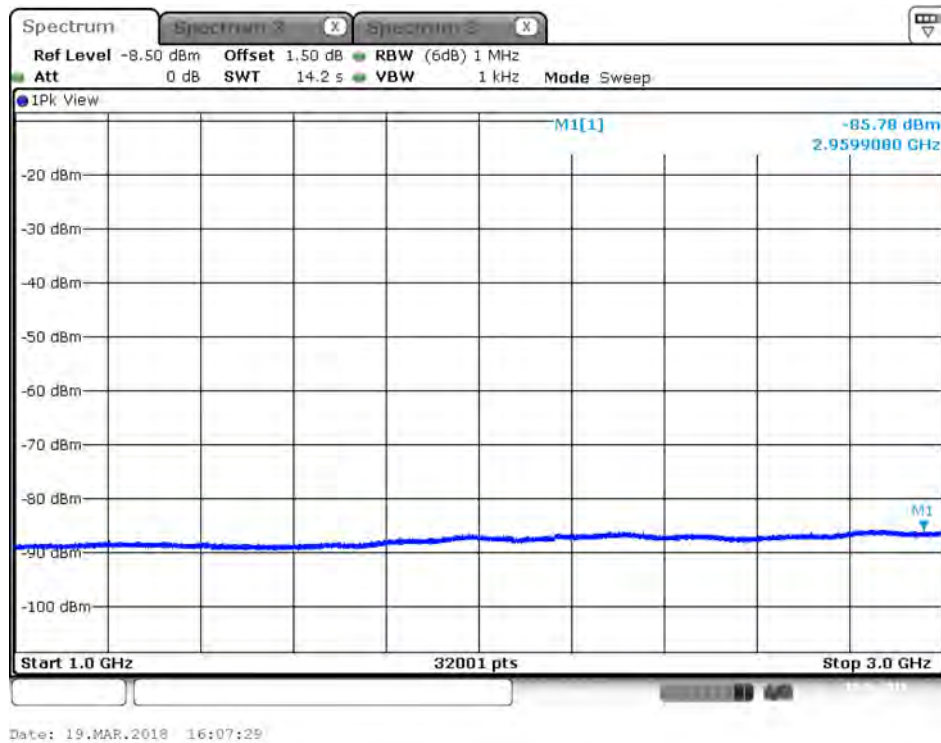
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Average / Port 2 / 1GHz~3GHz



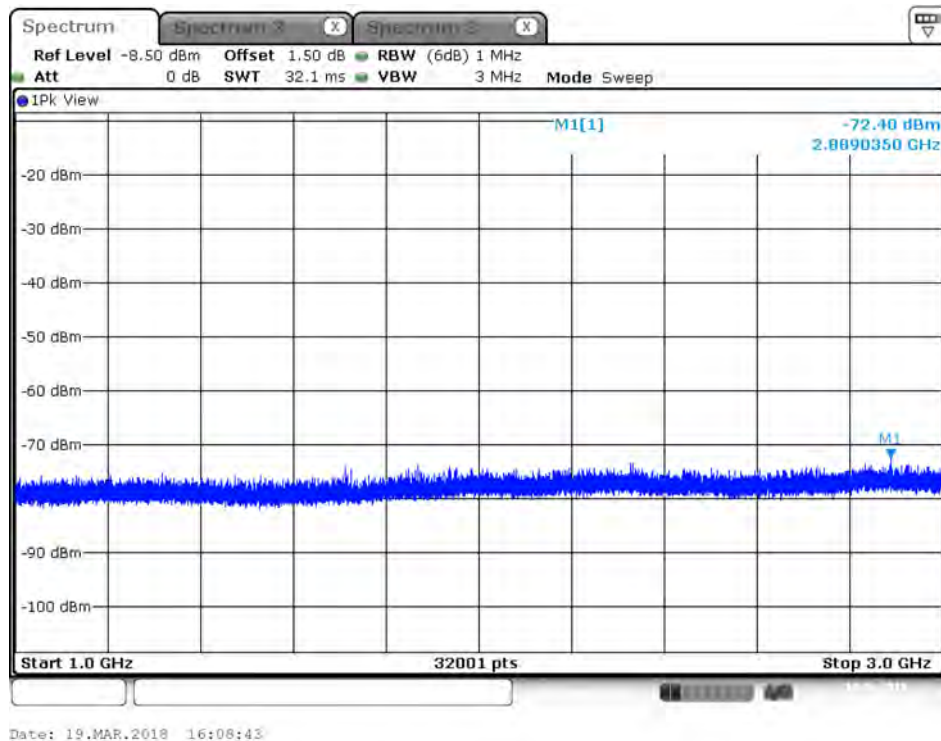
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Peak / Port 2 / 1GHz~3GHz



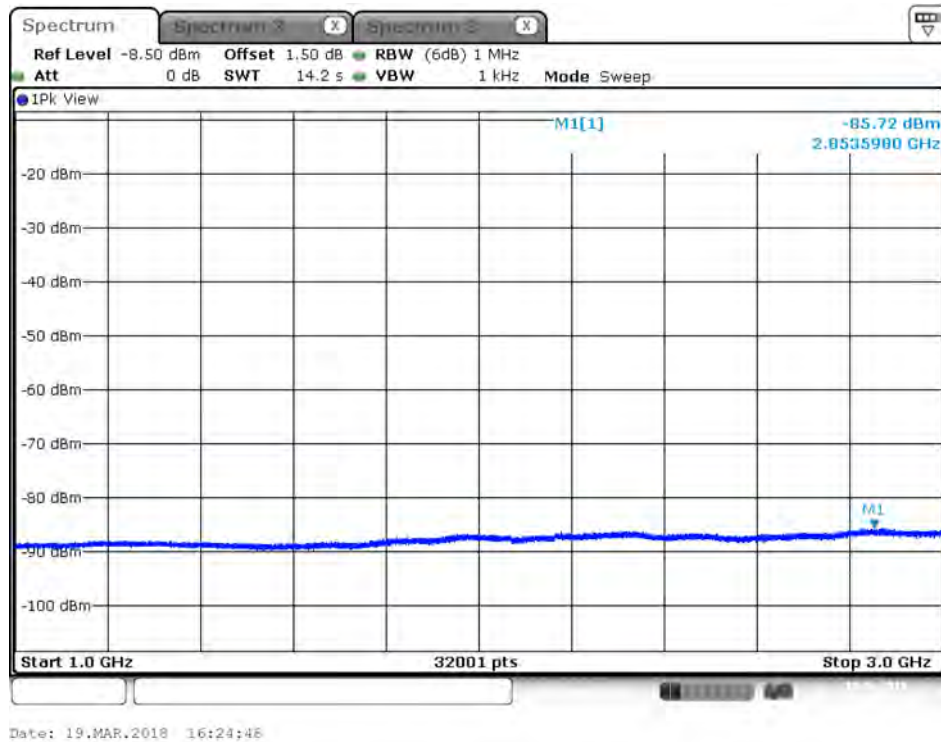
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Average / Port 1 / 1GHz~3GHz



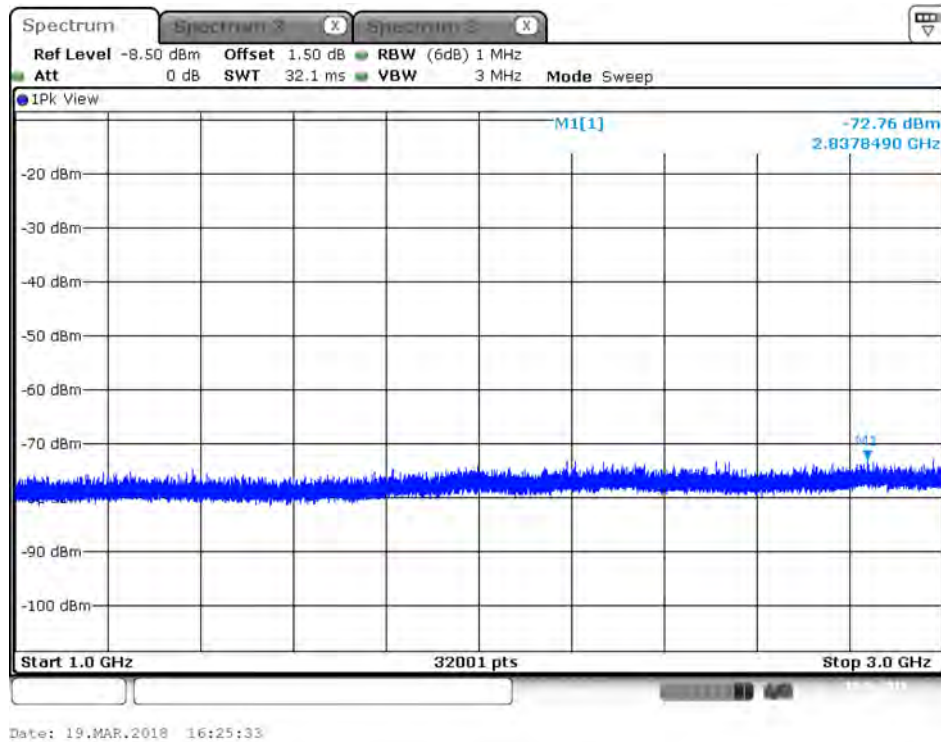
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Peak / Port 1 / 1GHz~3GHz



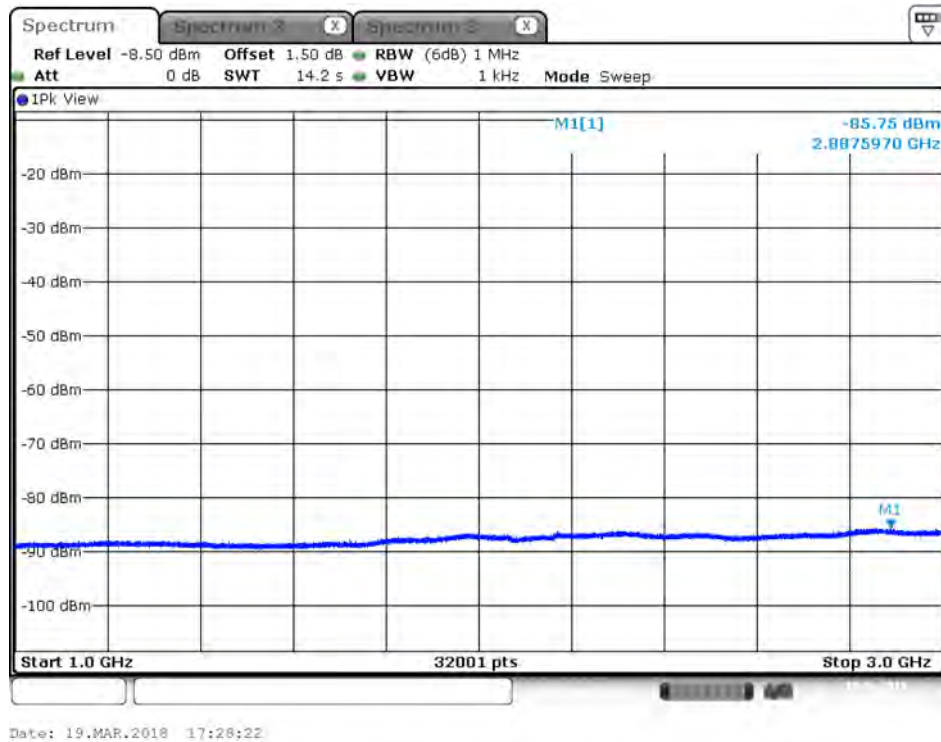
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Average / Port 2 / 1GHz~3GHz



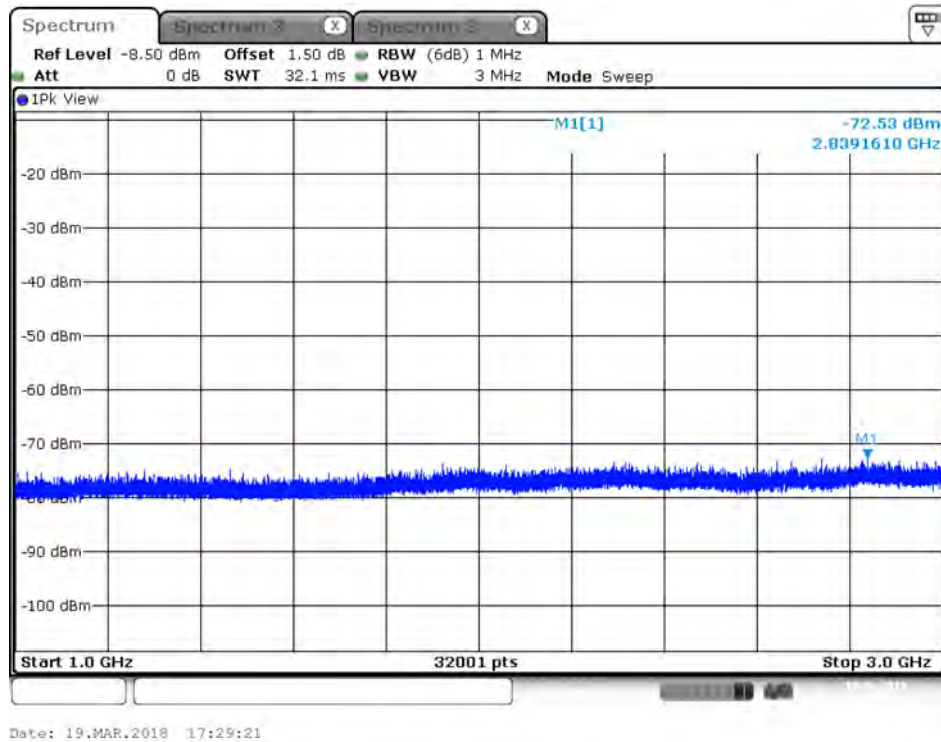
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Peak / Port 2 / 1GHz~3GHz



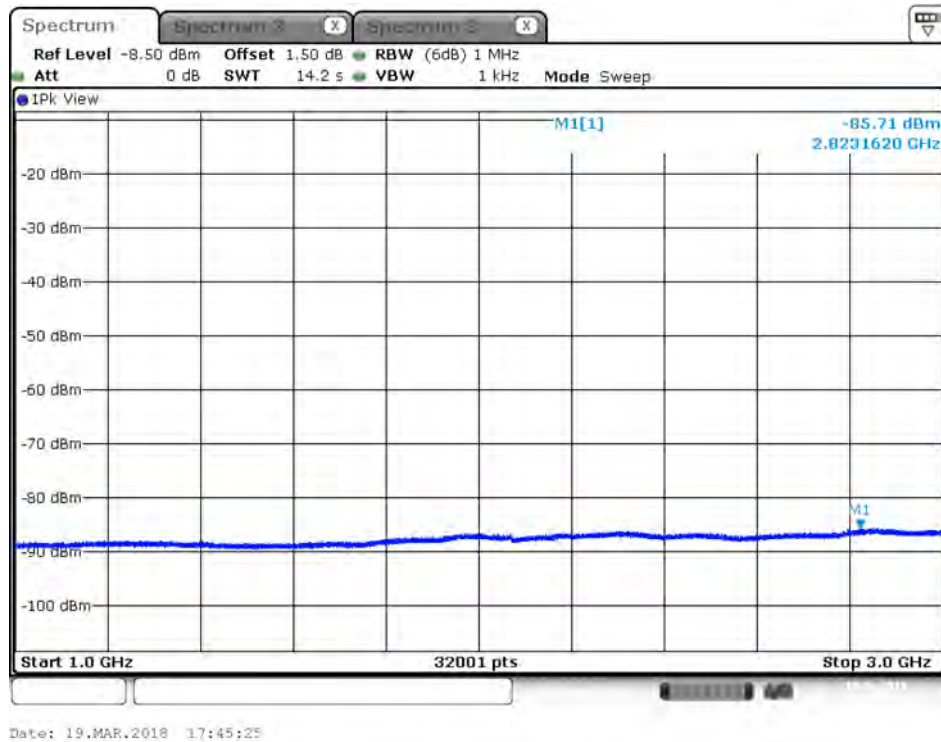
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Average / Port 1 / 1GHz~3GHz



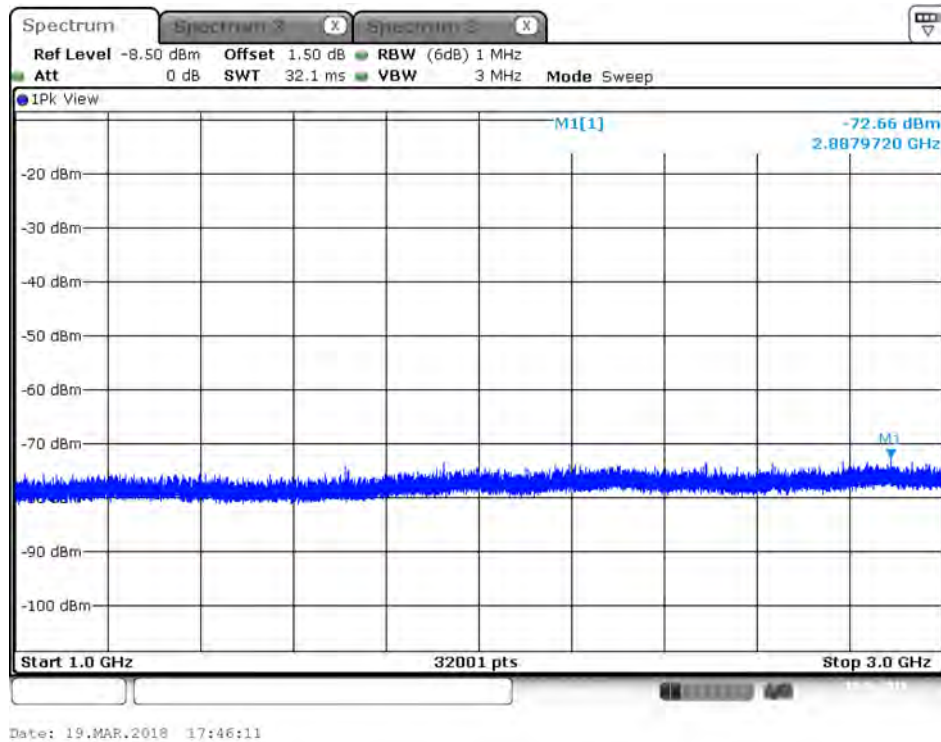
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Peak / Port 1 / 1GHz~3GHz



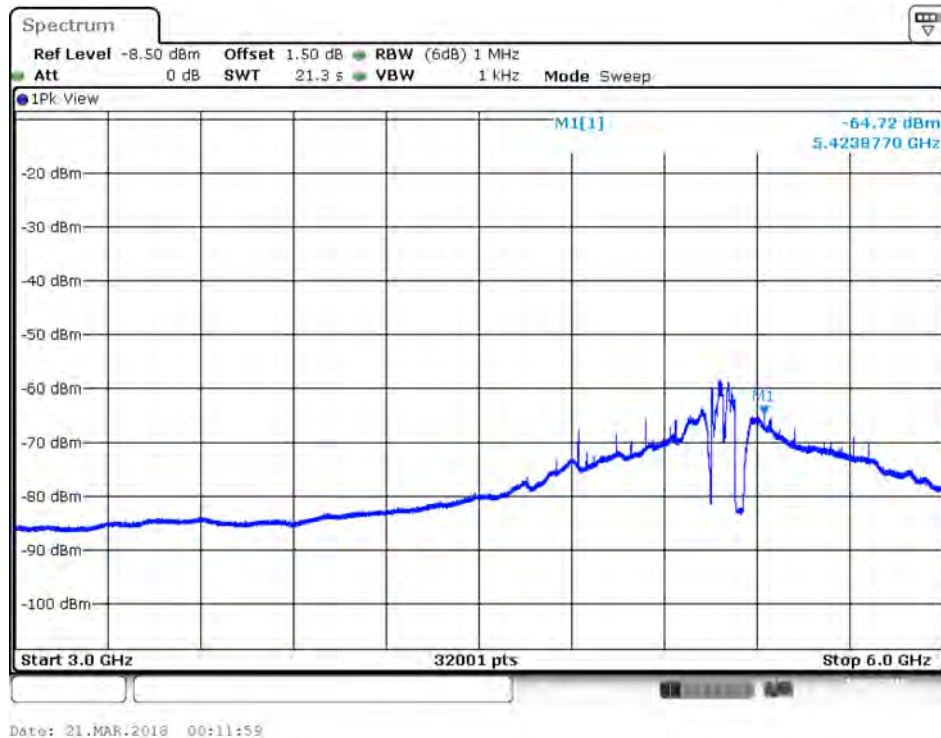
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Average / Port 2 / 1GHz~3GHz



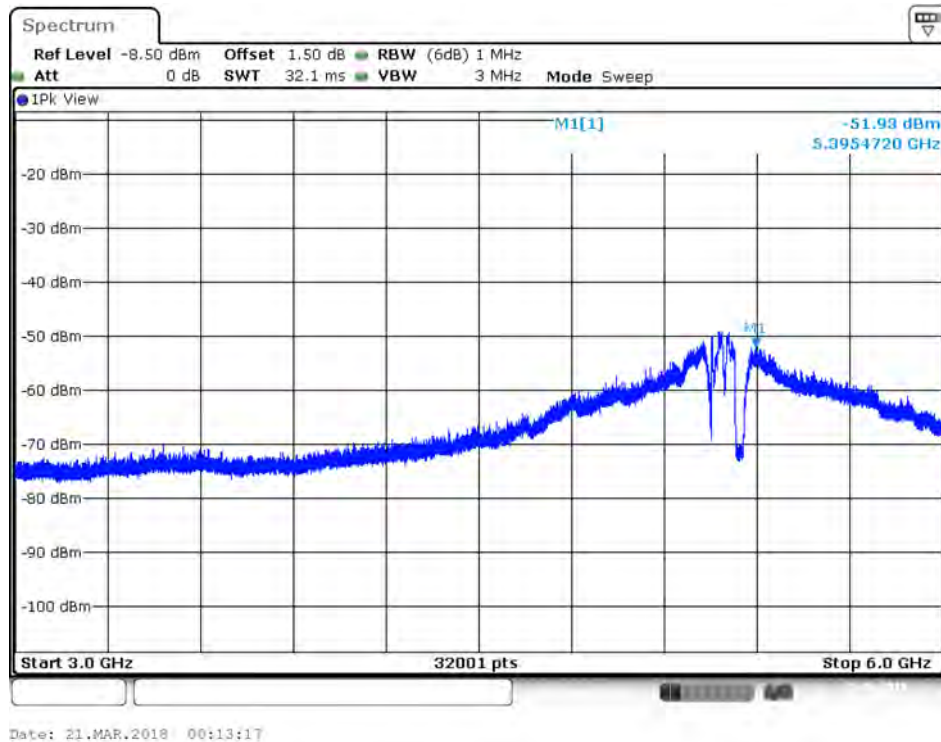
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Peak / Port 2 / 1GHz~3GHz



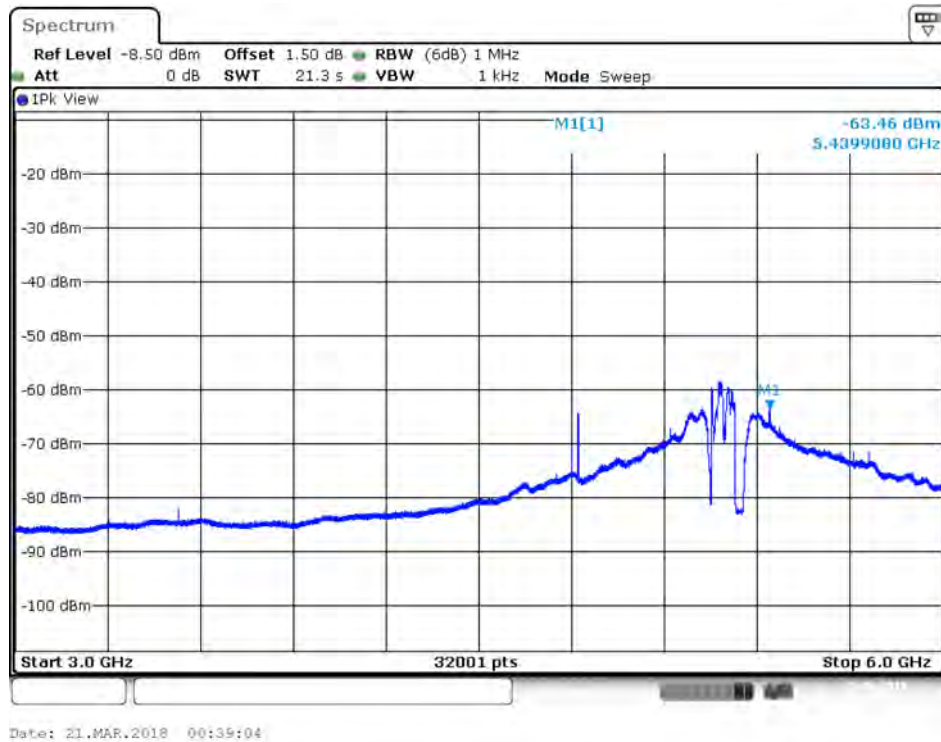
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Average / Port 1 / 3GHz~6GHz



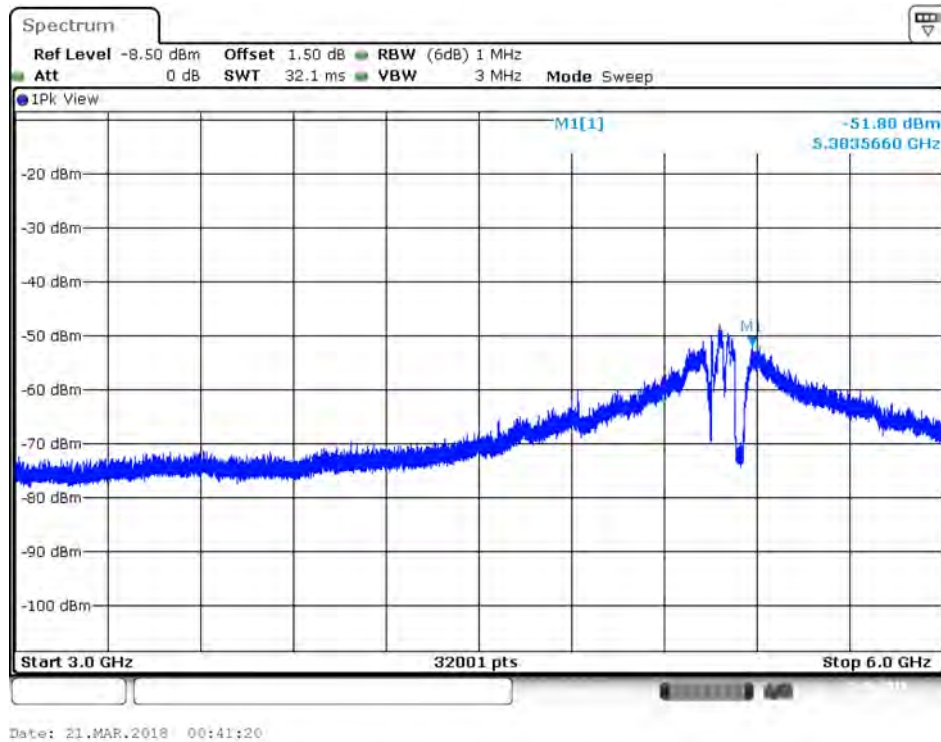
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Peak / Port 1 / 3GHz~6GHz



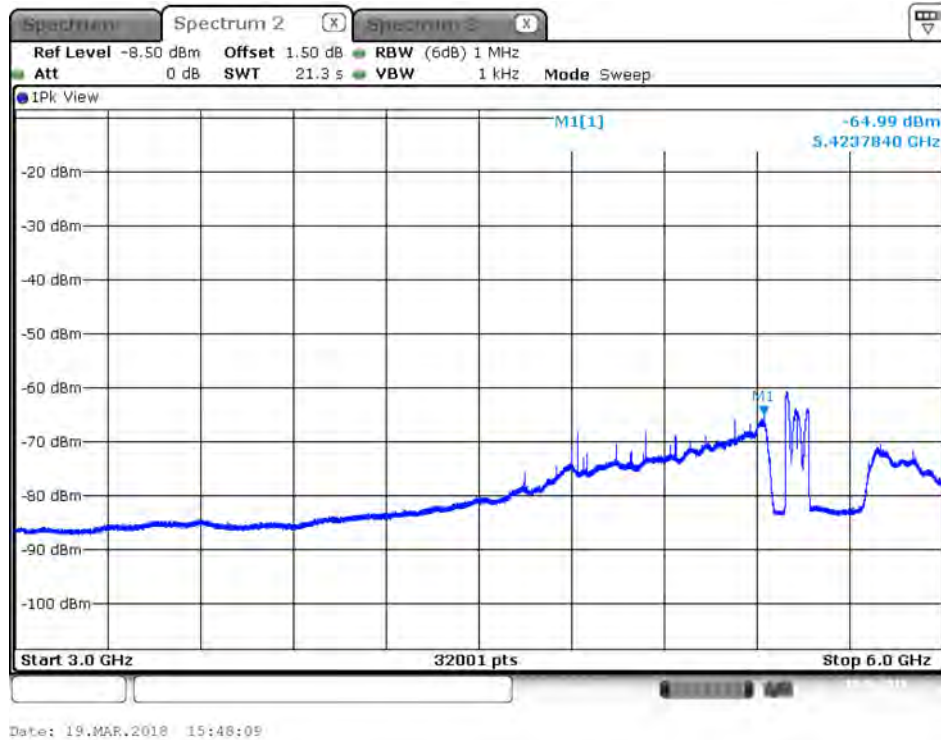
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Average / Port 2 / 3GHz~6GHz



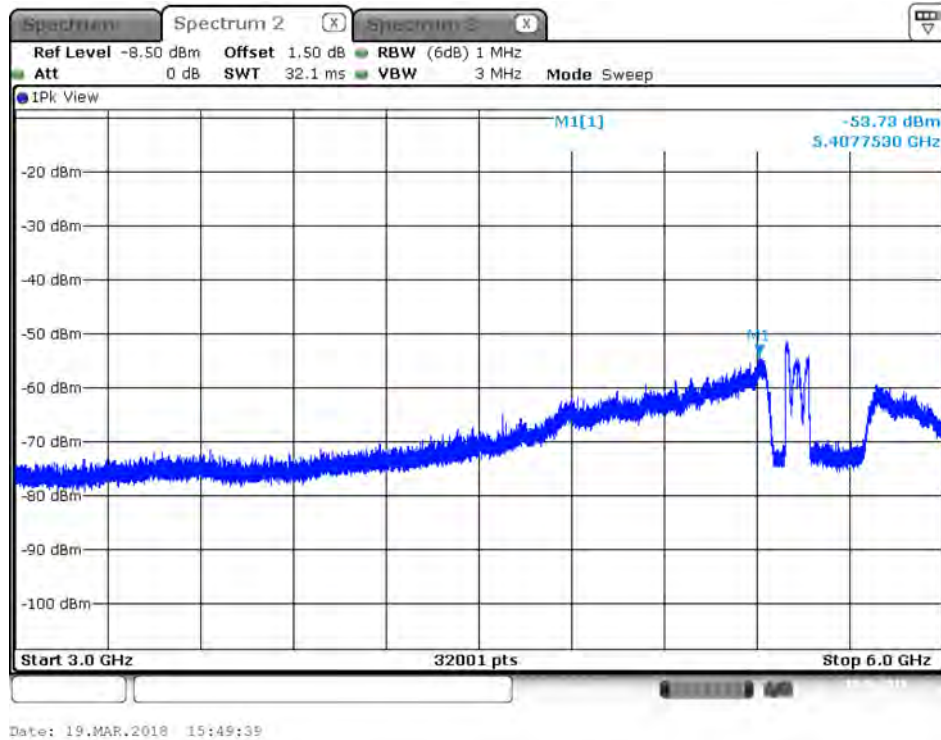
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Peak / Port 2 / 3GHz~6GHz



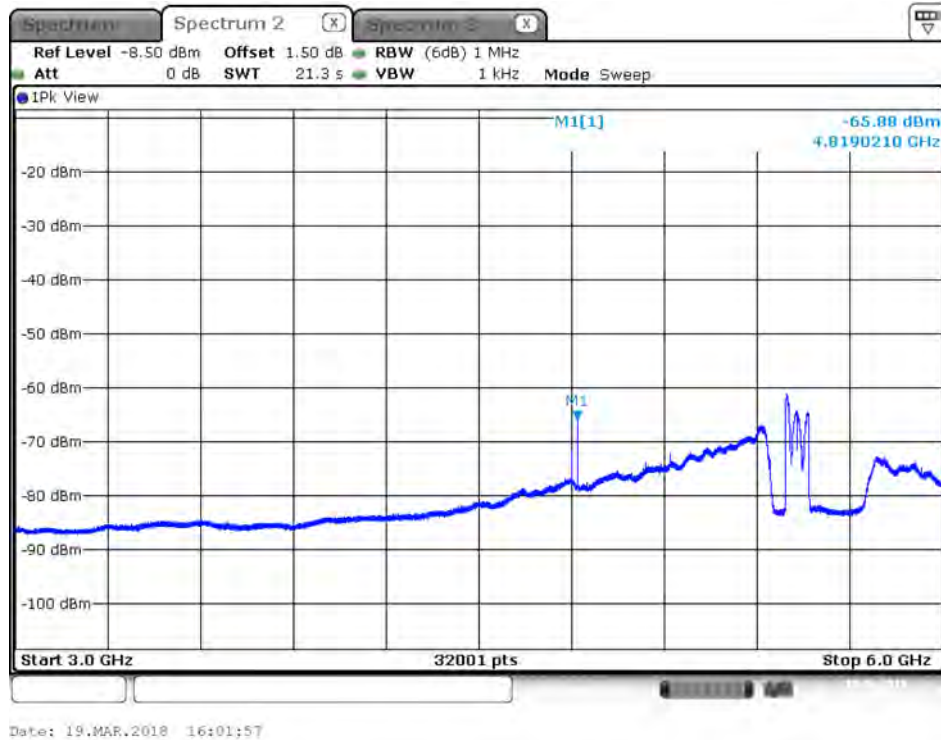
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Average / Port 1 / 3GHz~6GHz



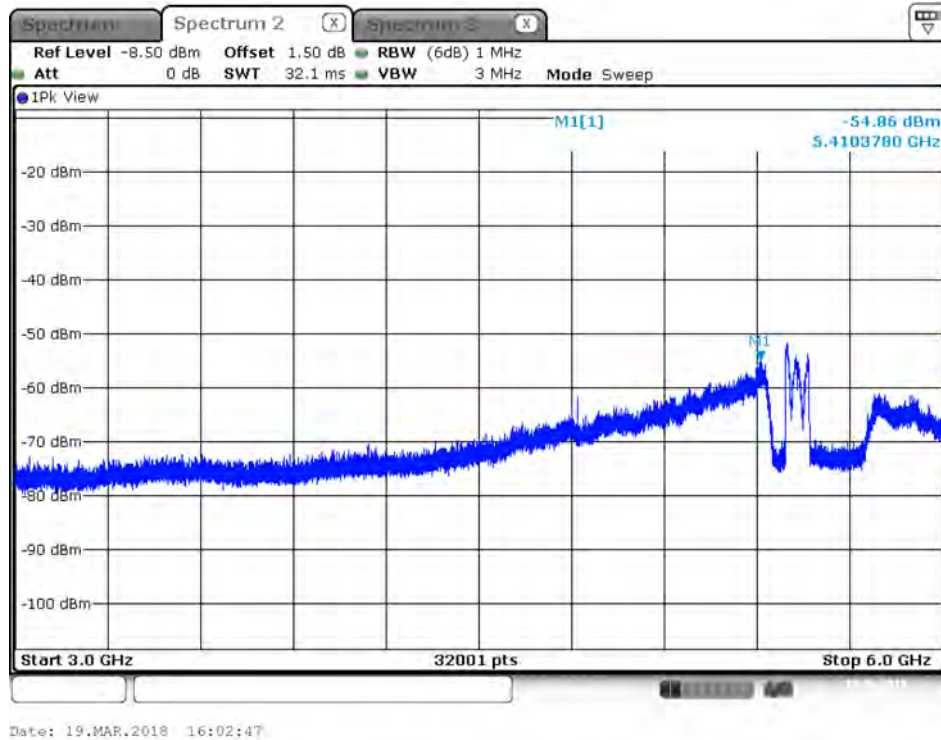
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Peak / Port 1 / 3GHz~6GHz



Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Average / Port 2 / 3GHz~6GHz



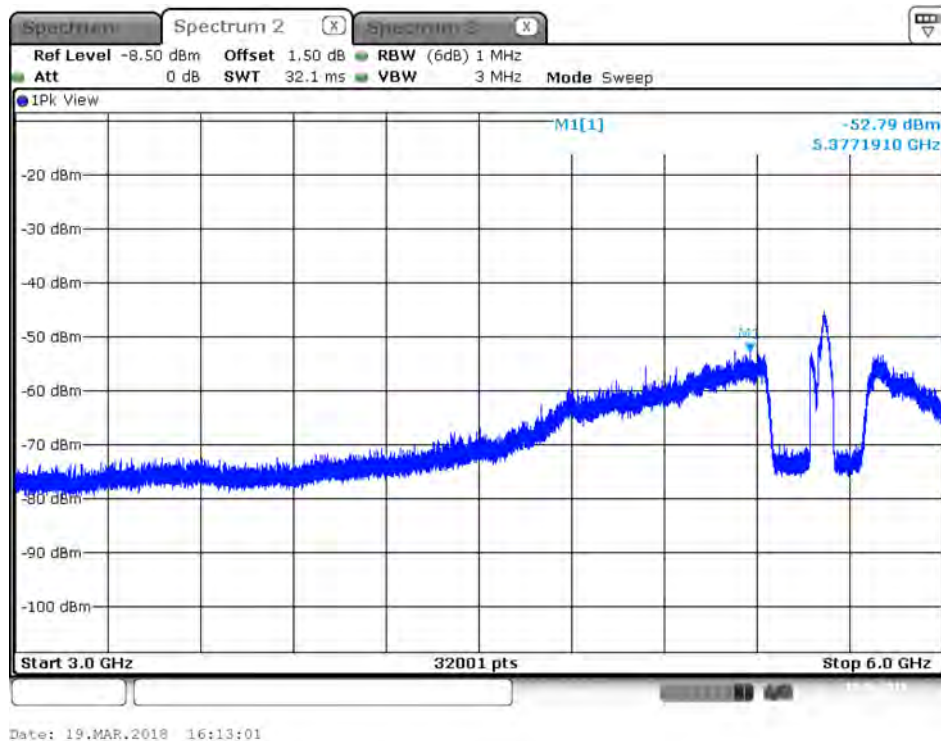
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5530 MHz / Peak / Port 2 / 3GHz~6GHz



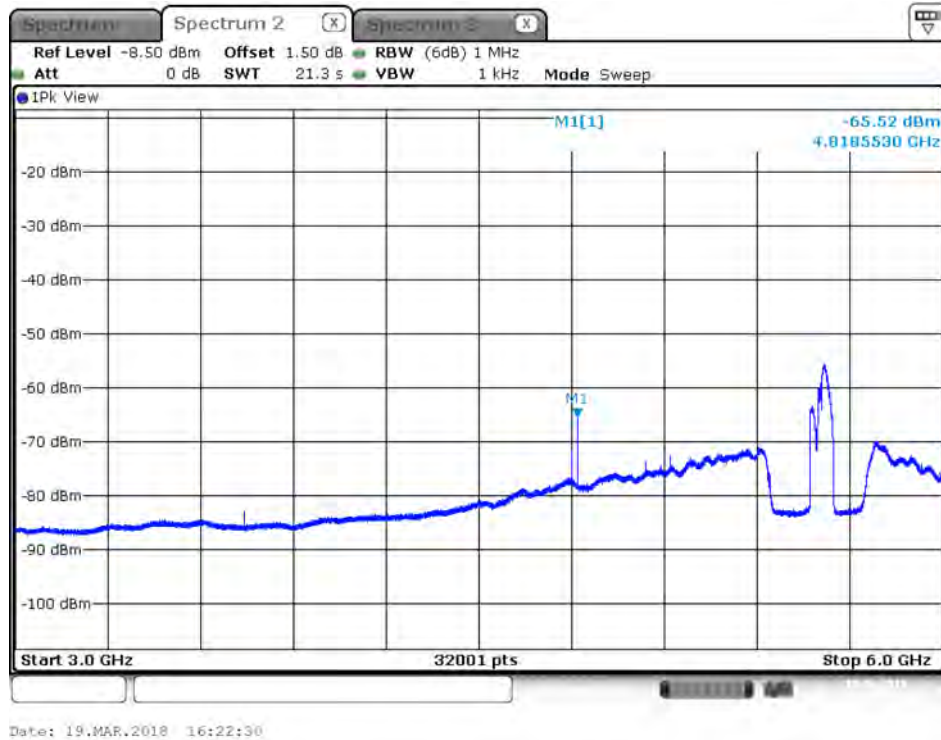
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Average / Port 1 / 3GHz~6GHz



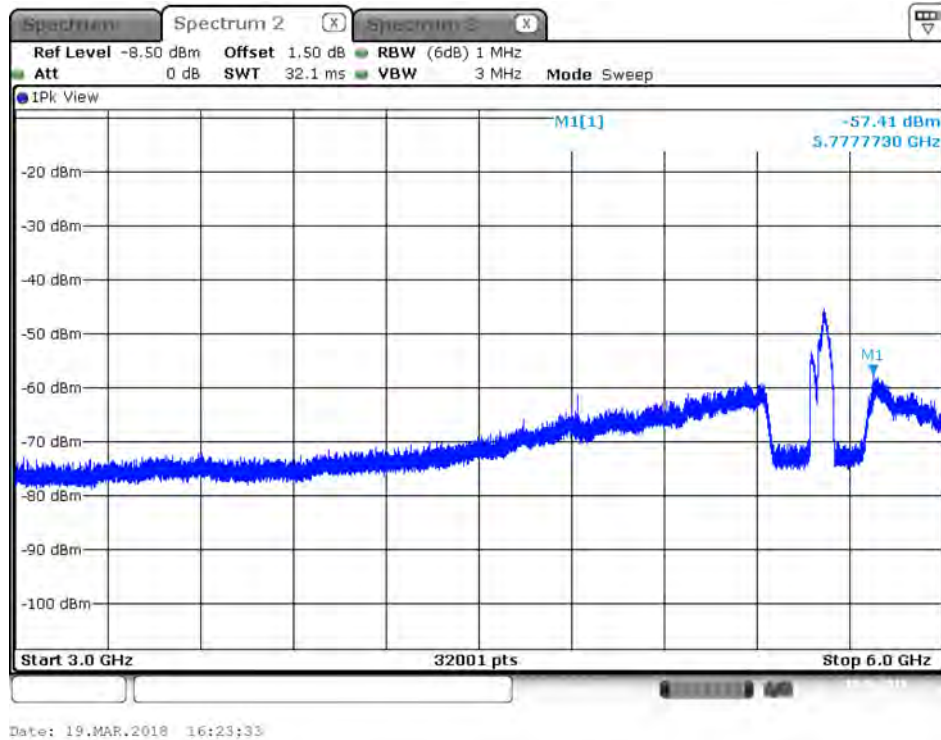
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Peak / Port 1 / 3GHz~6GHz



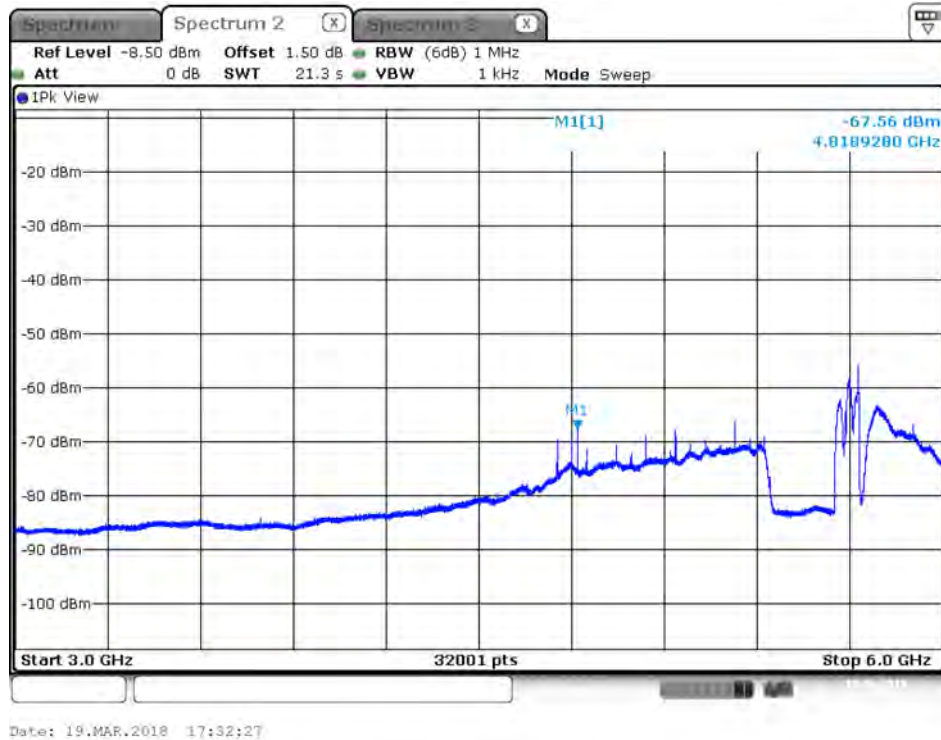
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Average / Port 2 / 3GHz~6GHz



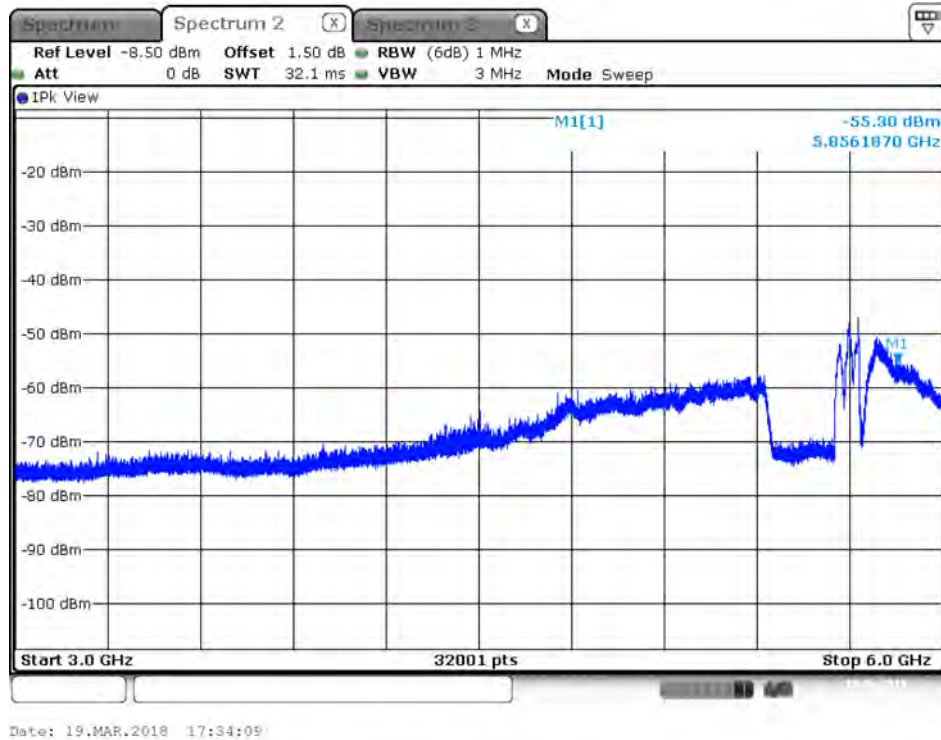
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5610 MHz / Peak / Port 2 / 3GHz~6GHz



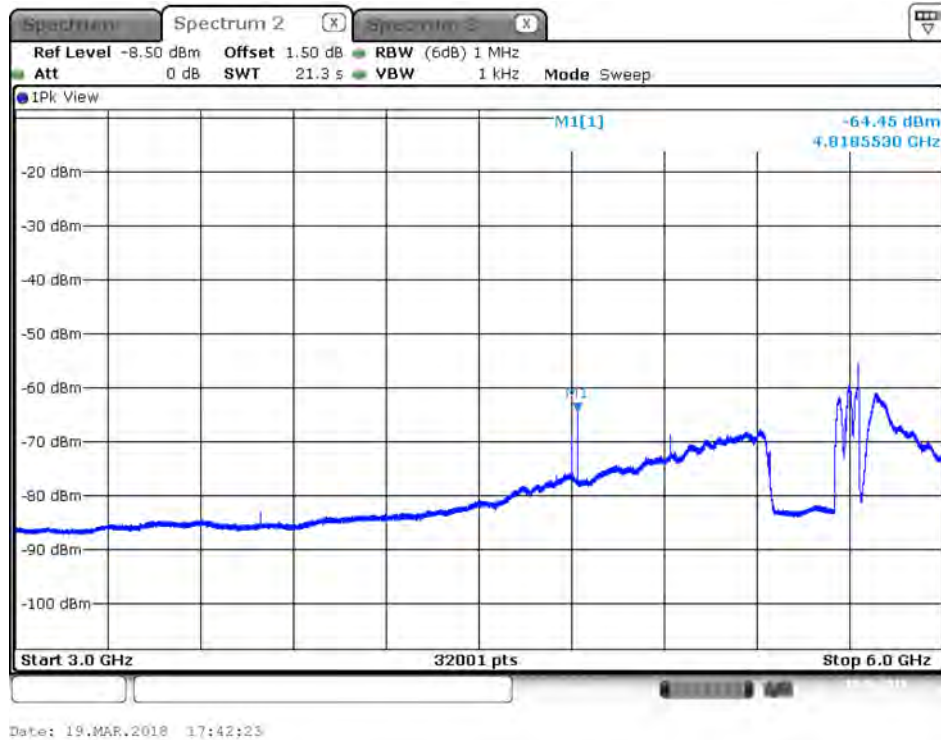
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Average / Port 1 / 3GHz~6GHz



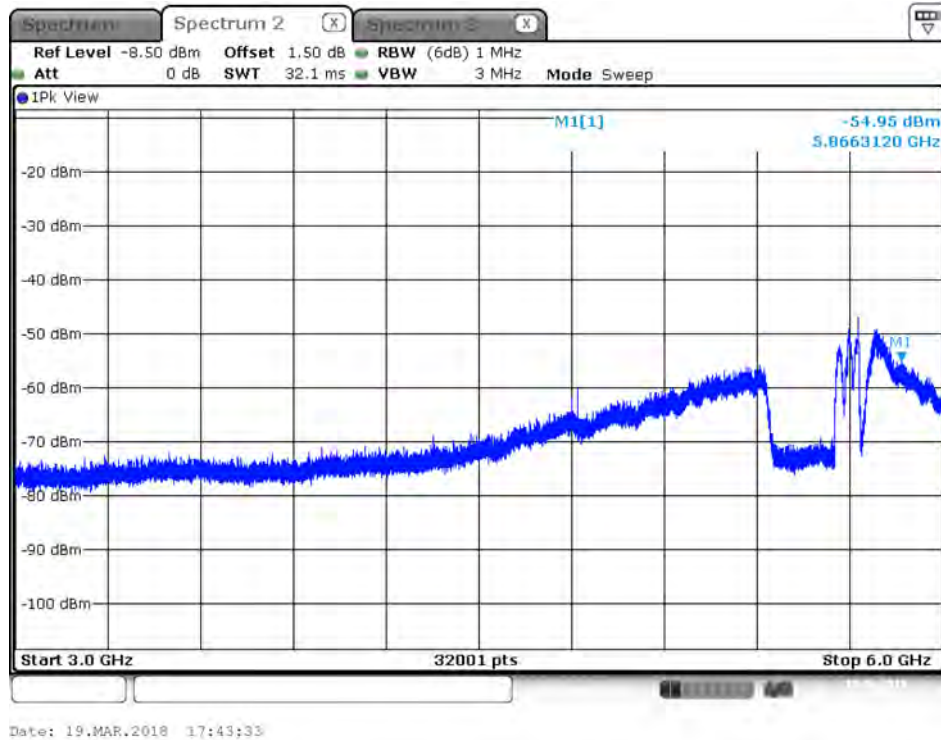
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Peak / Port 1 / 3GHz~6GHz



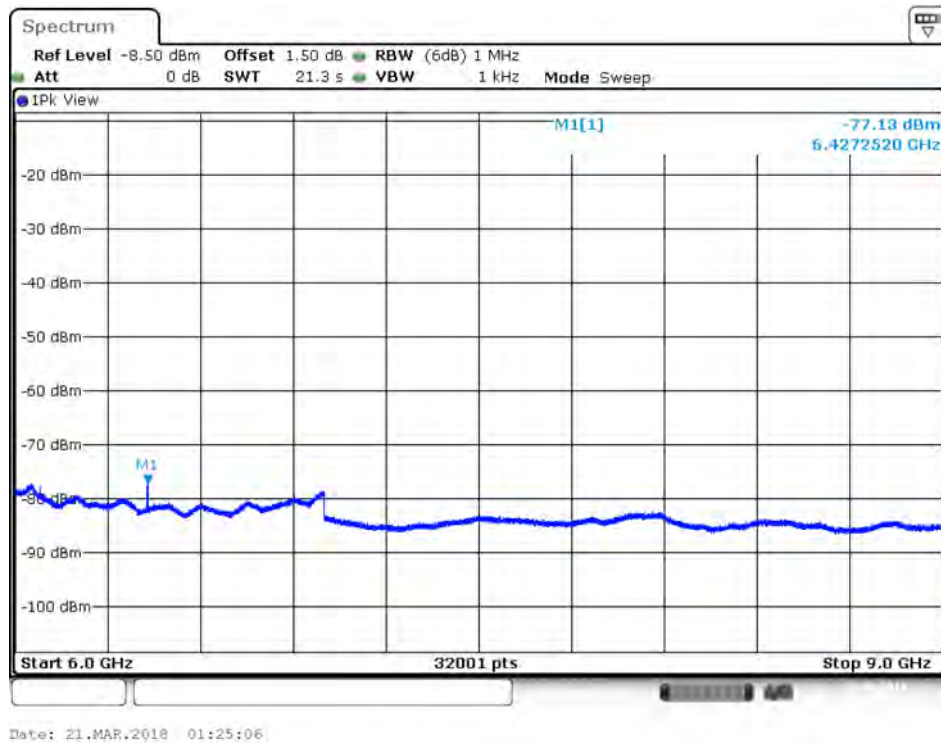
Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Average / Port 2 / 3GHz~6GHz



Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5690 MHz / Peak / Port 2 / 3GHz~6GHz



Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Average / Port 1 / 6GHz~9GHz



Plot on IEEE 802.11ac Nss1 MCS0 VHT80 / 5290 MHz / Peak / Port 1 / 6GHz~9GHz

