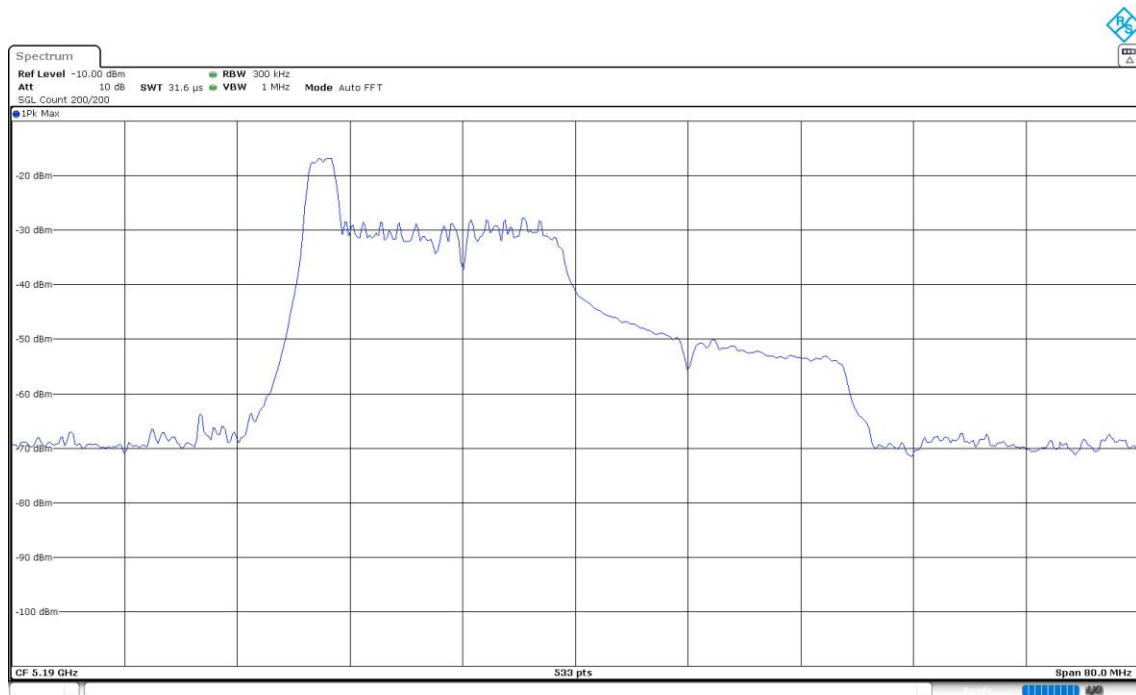
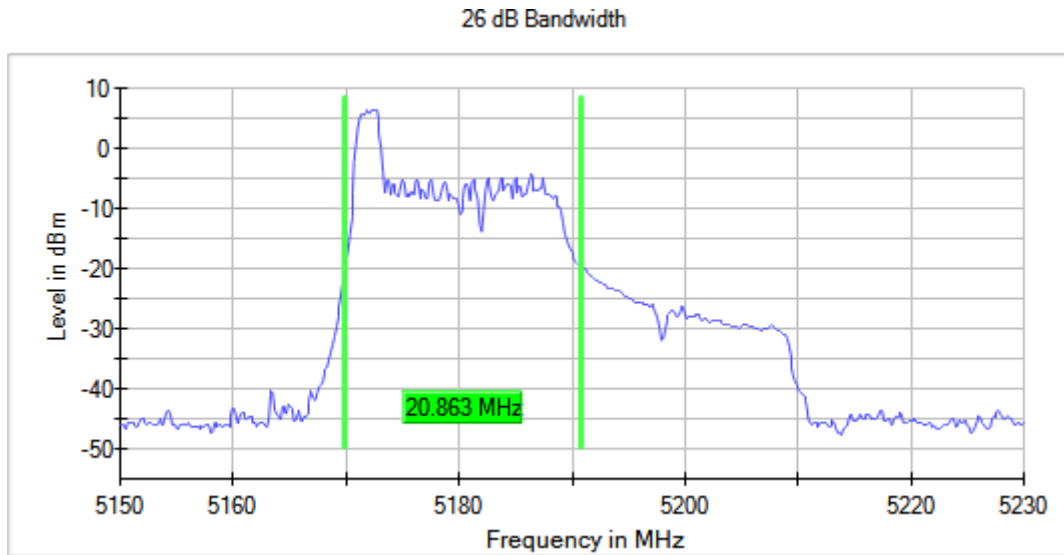


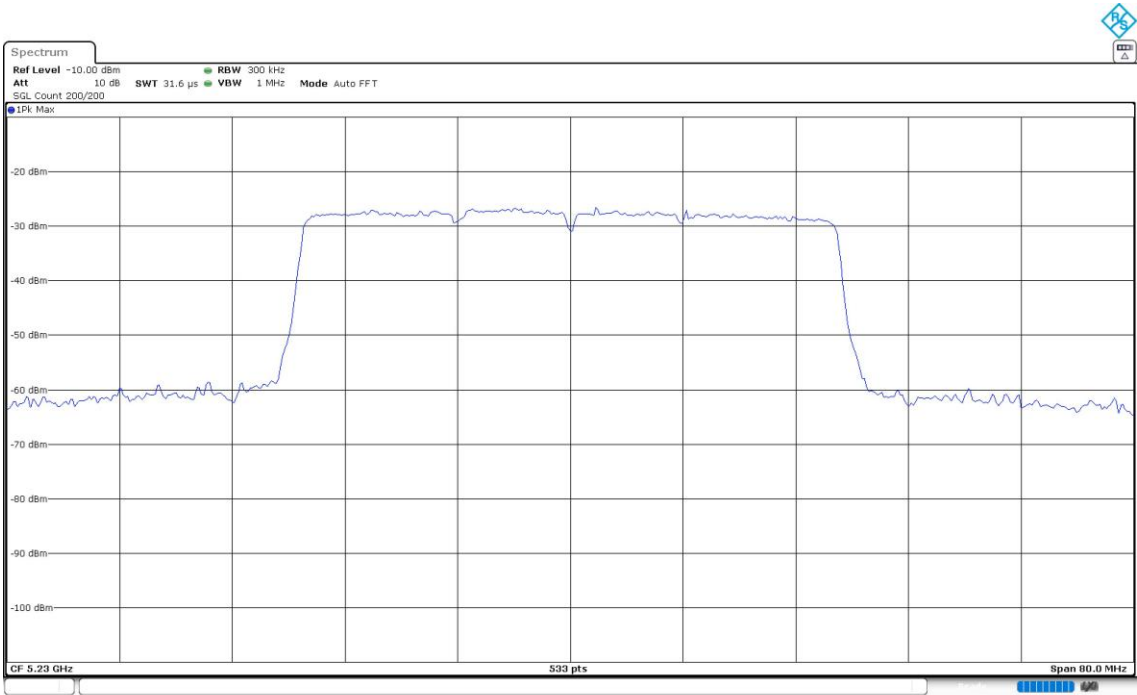
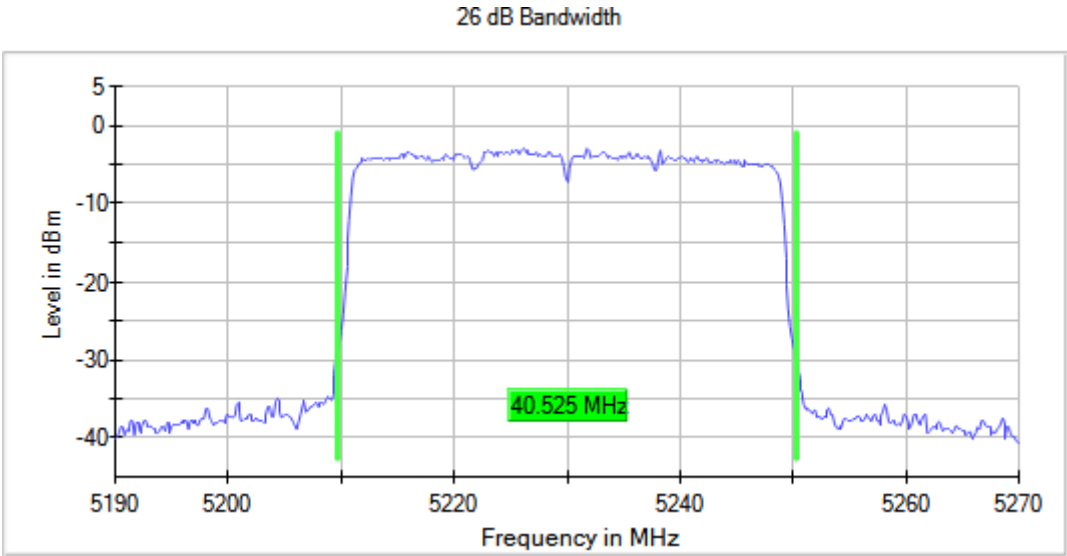
Operation Band MHz = [5150, 5250] Active Port = 2
 Frequency MHz = 5190.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



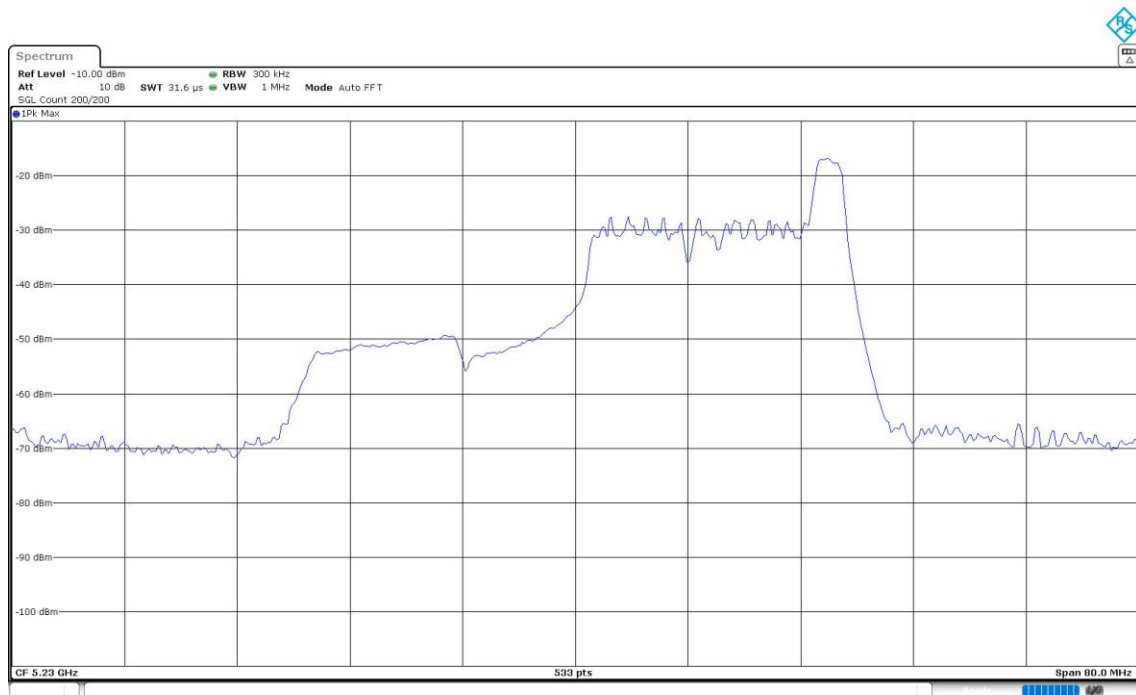
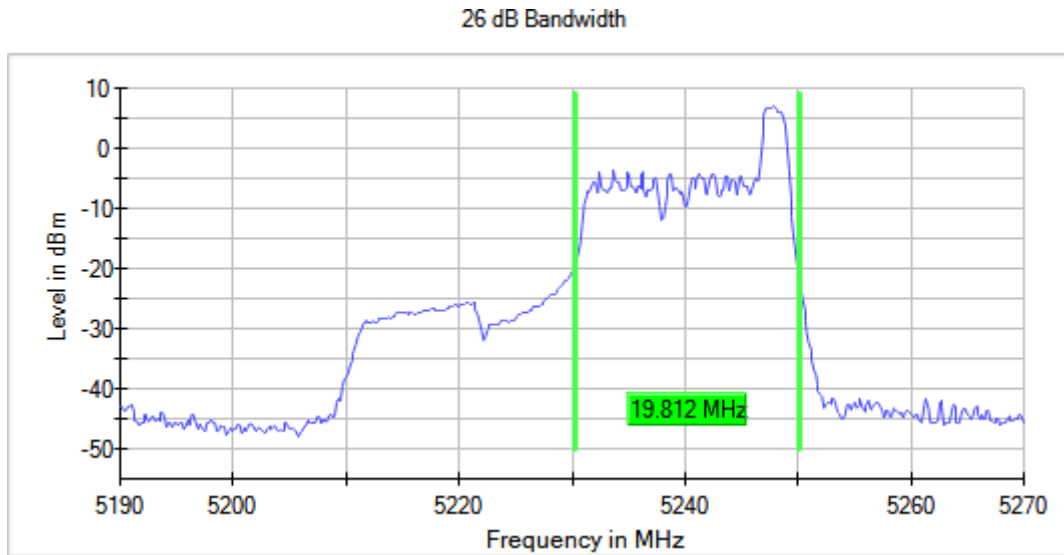
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Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



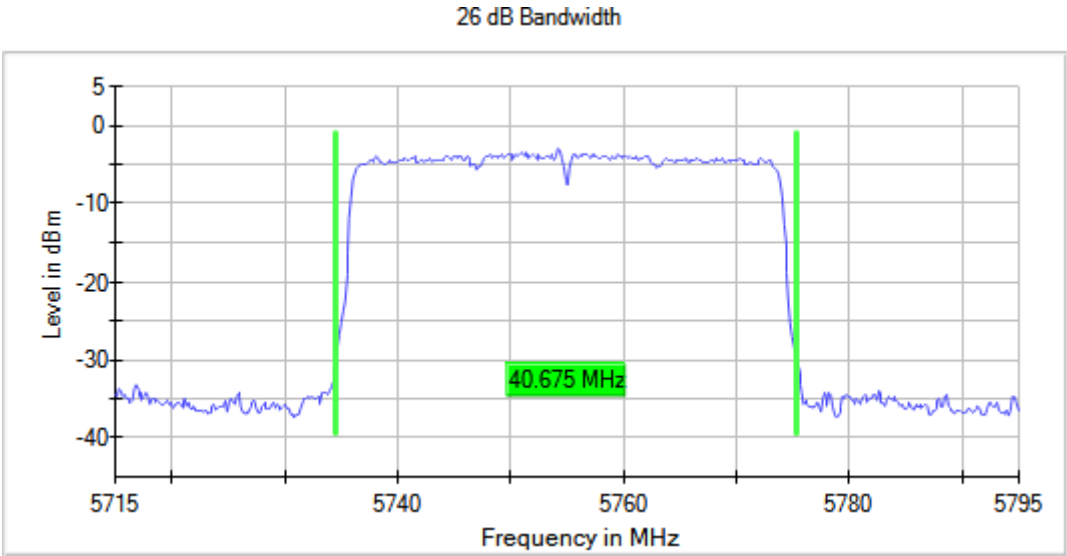
Operation Band MHz = [5150, 5250] Active Port = 2
 Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



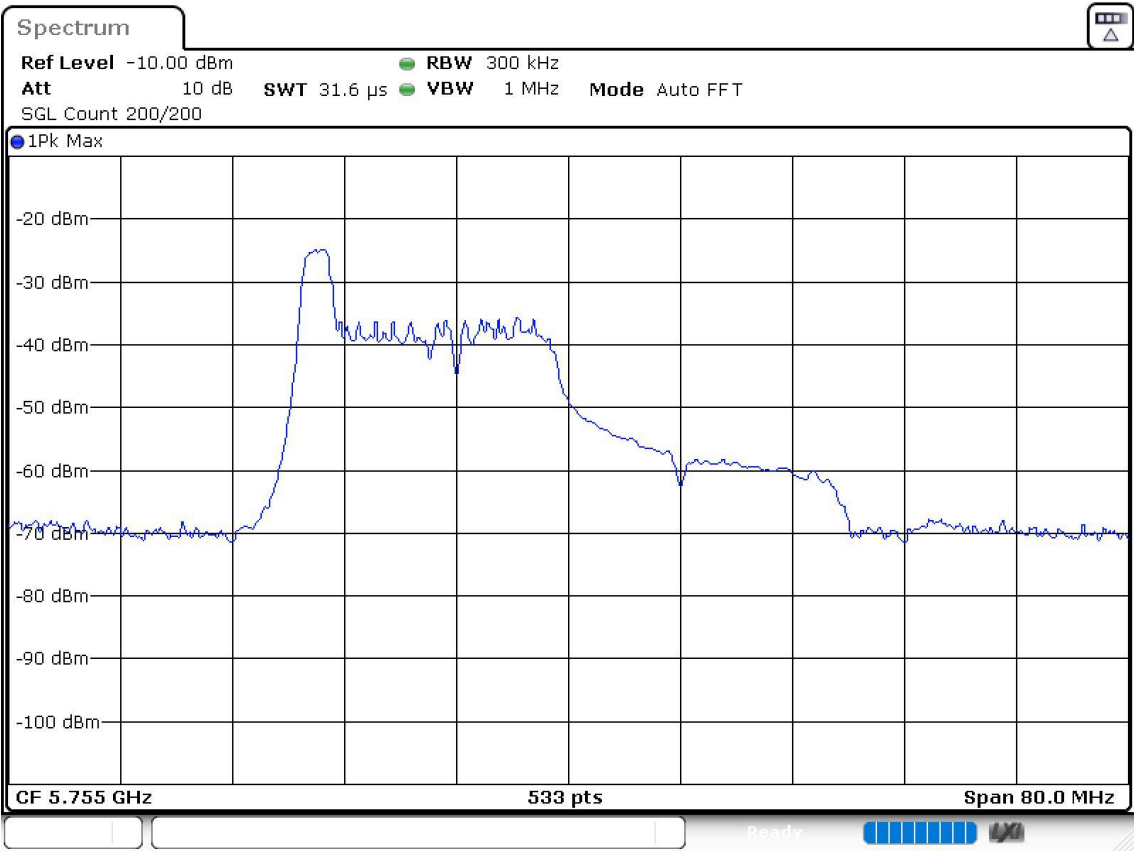
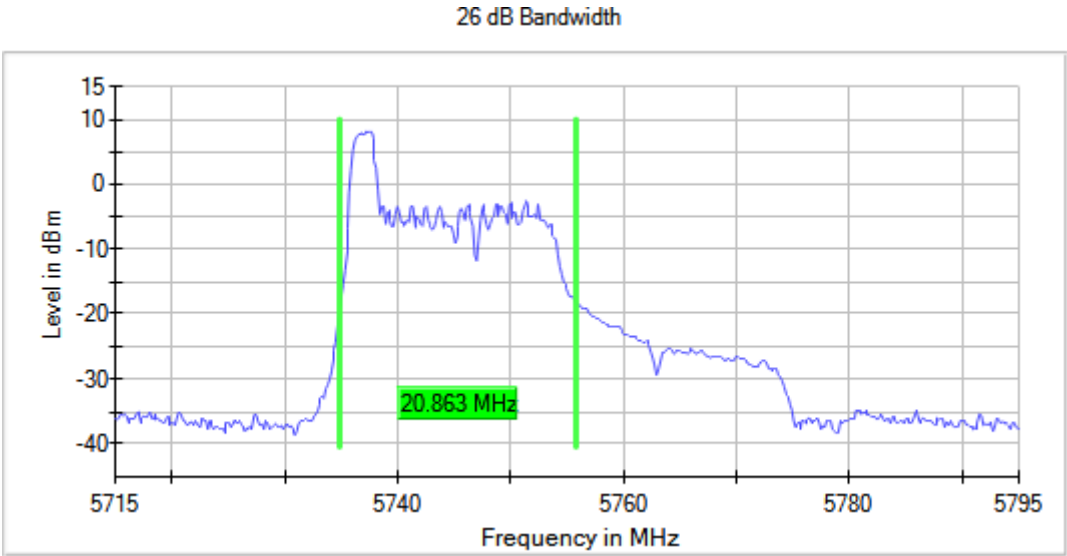
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



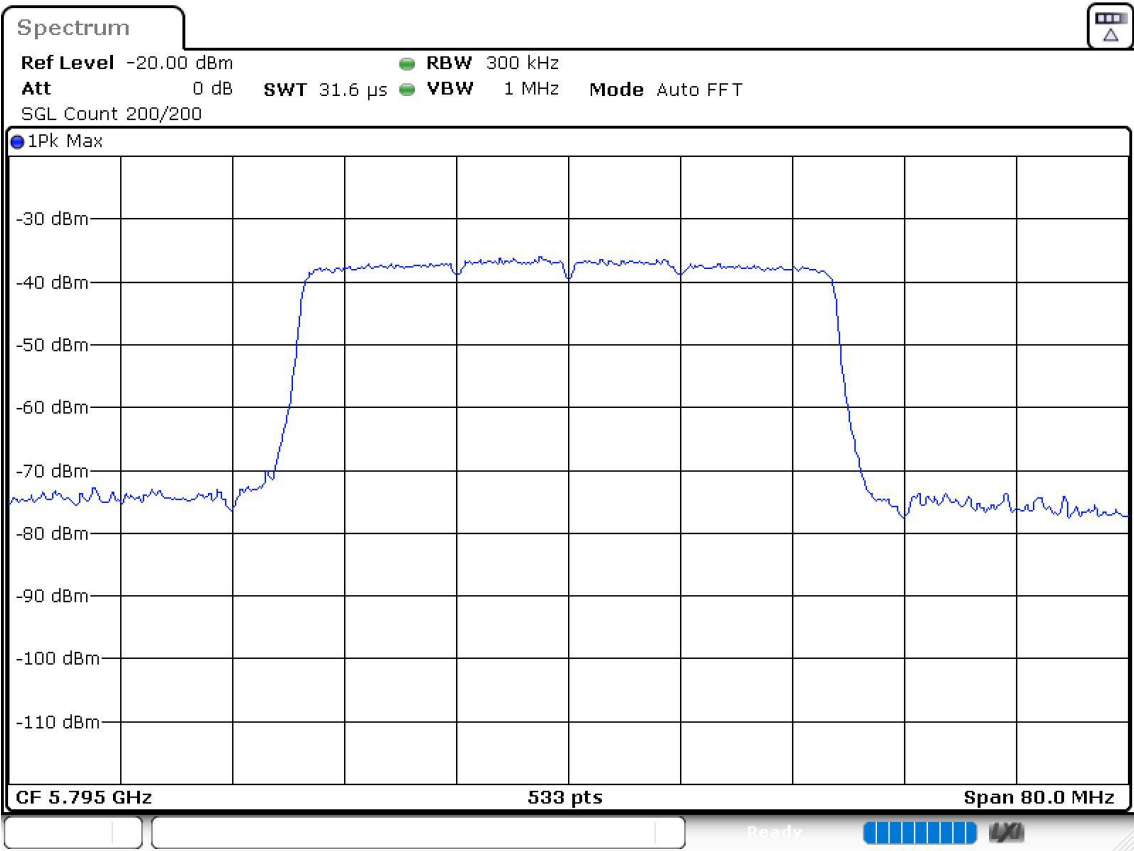
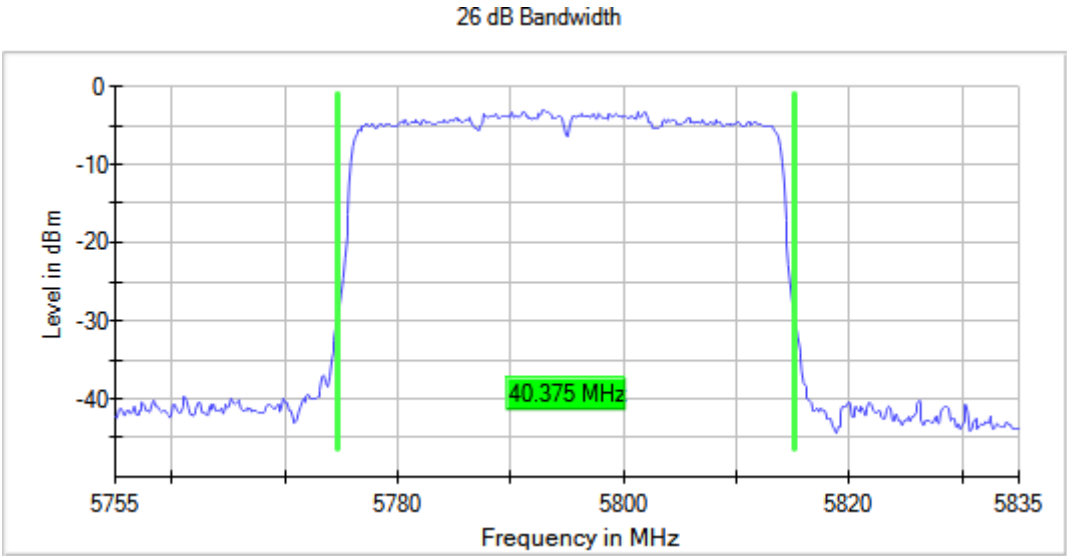
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



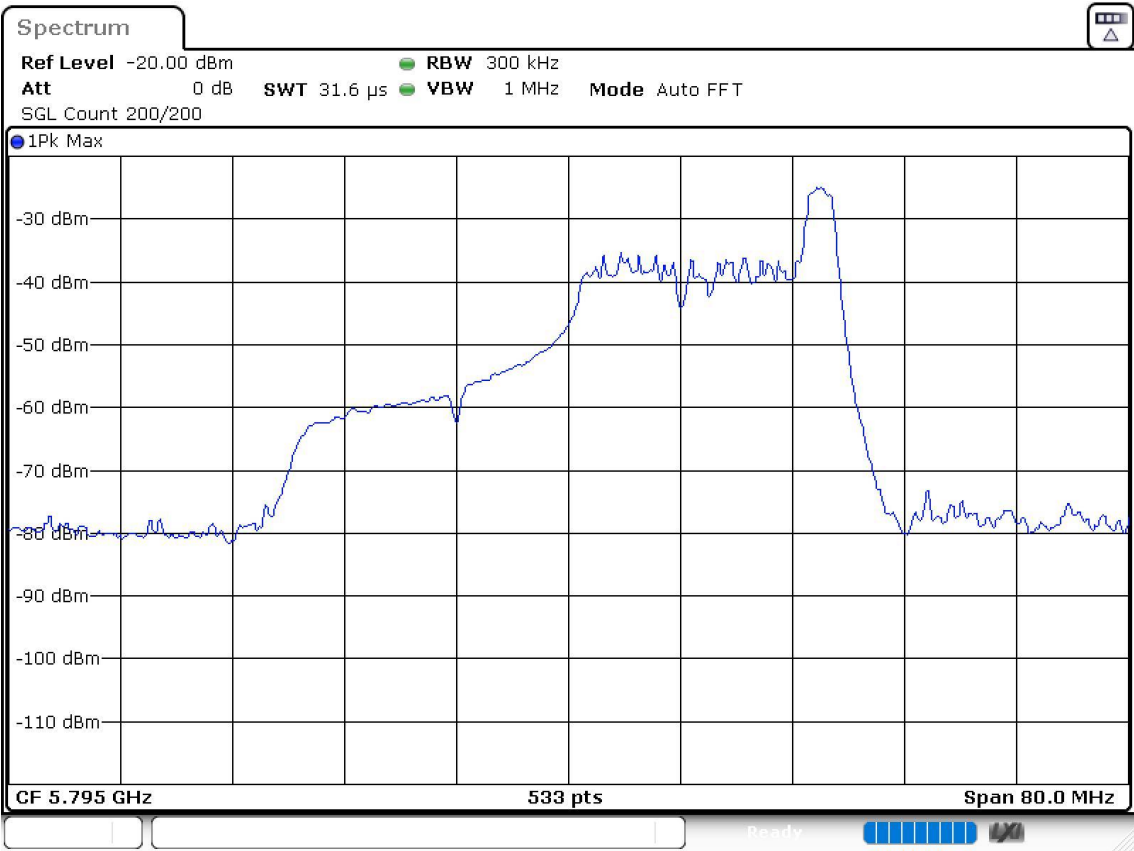
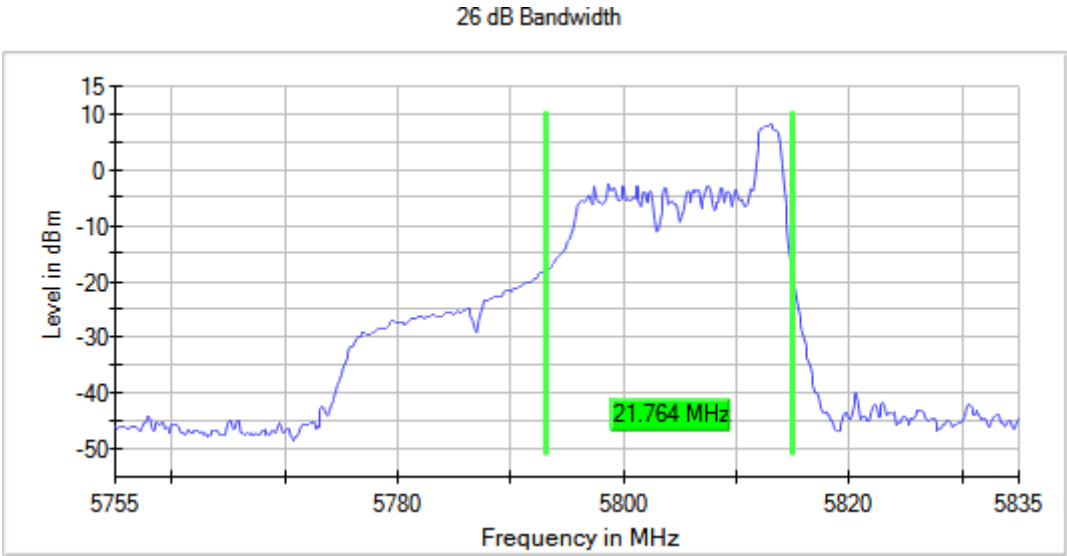
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Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



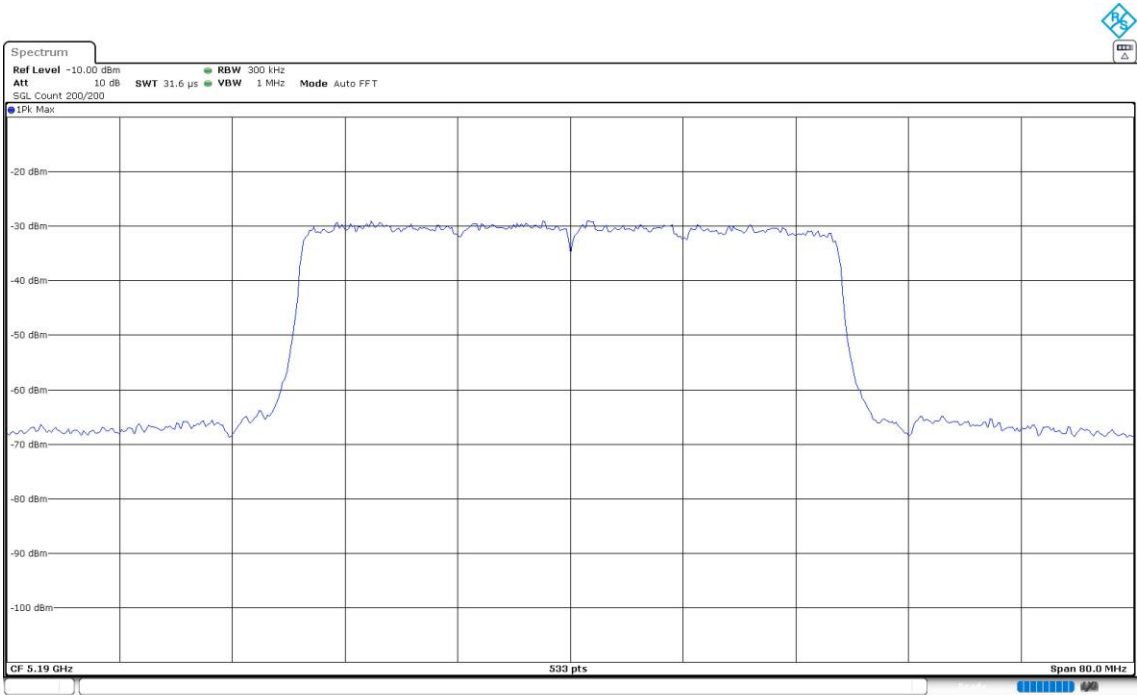
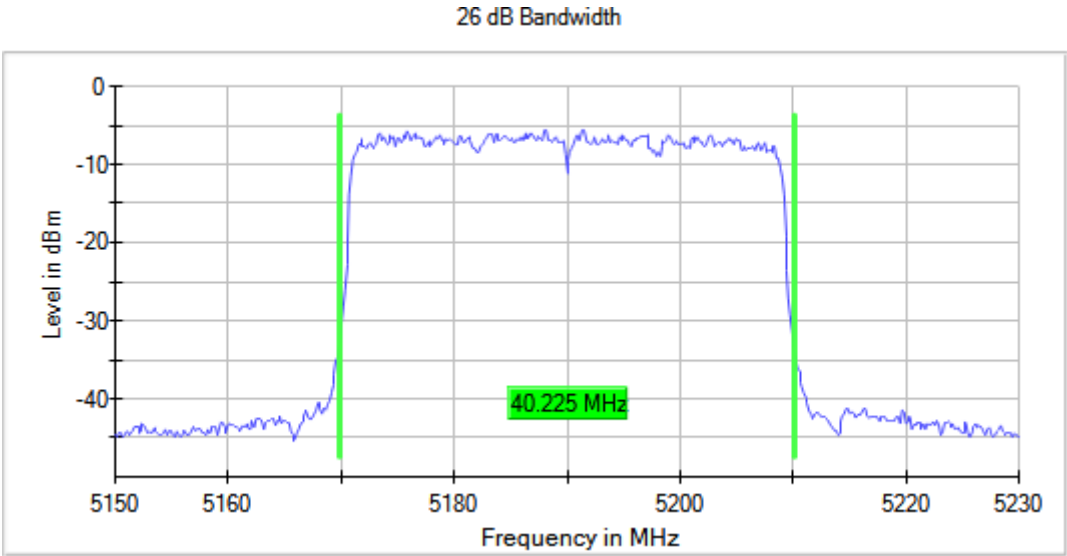
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



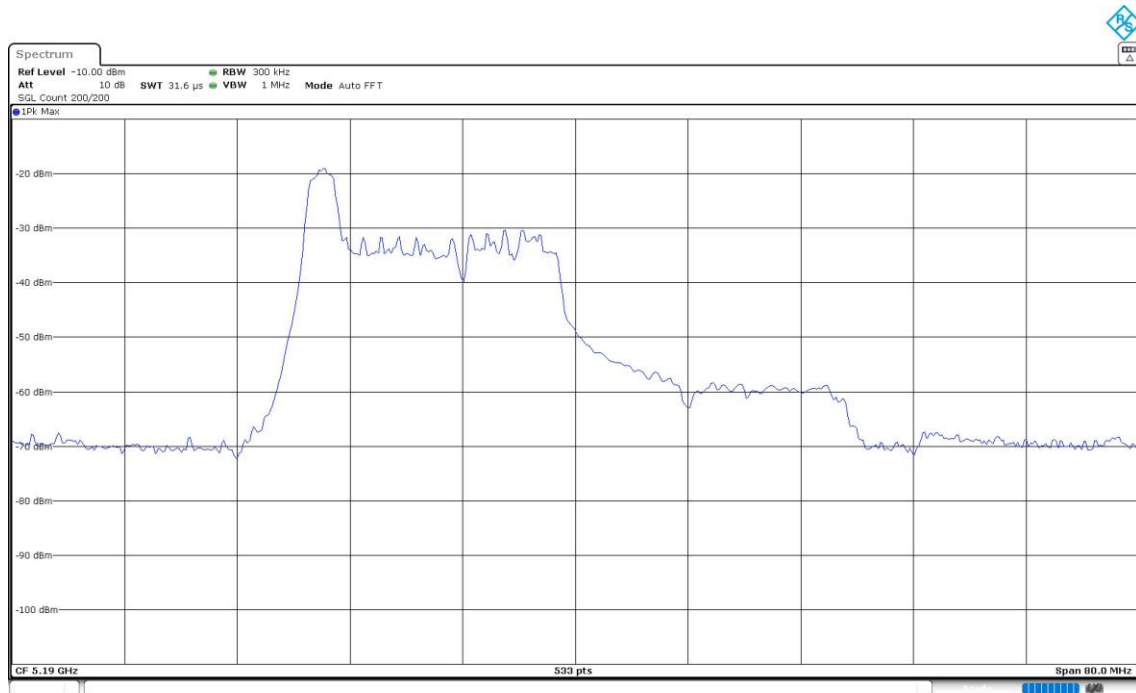
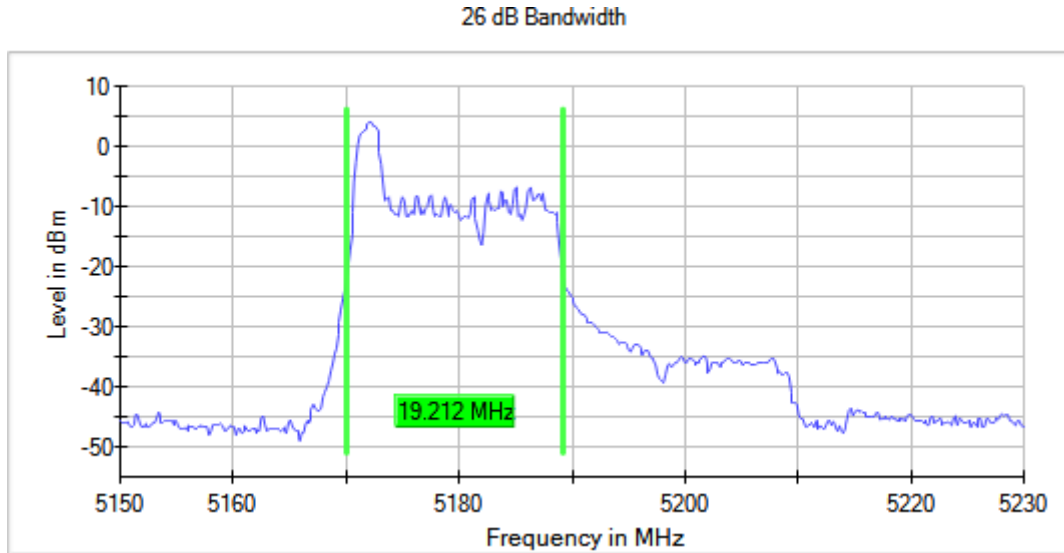
Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5190.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



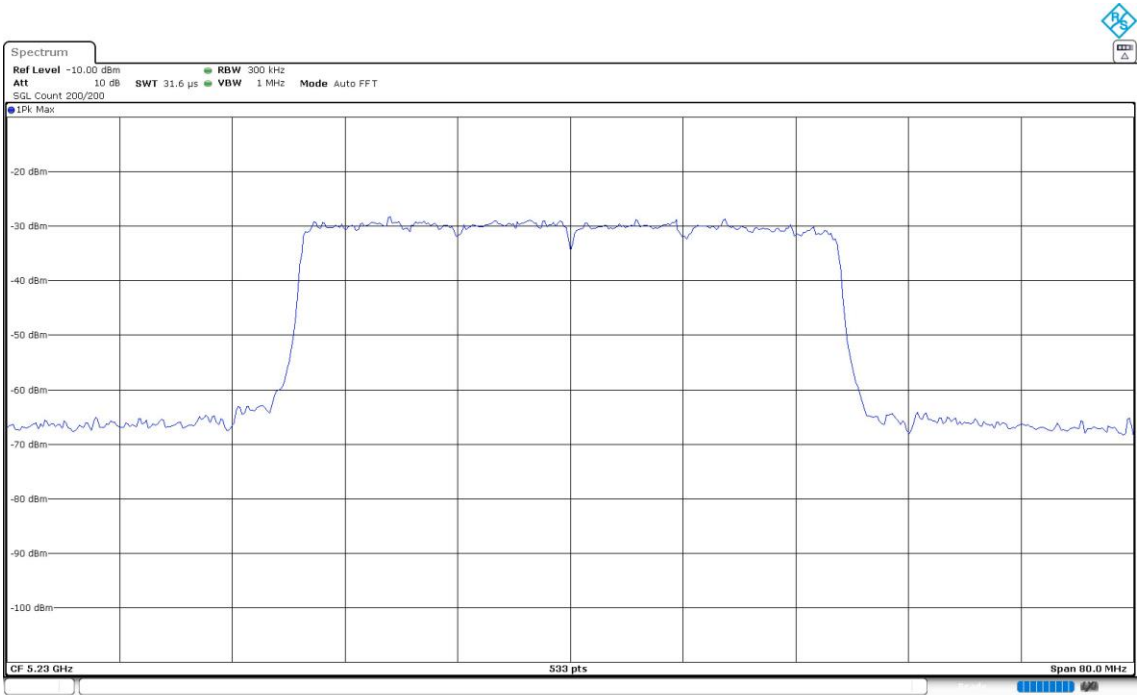
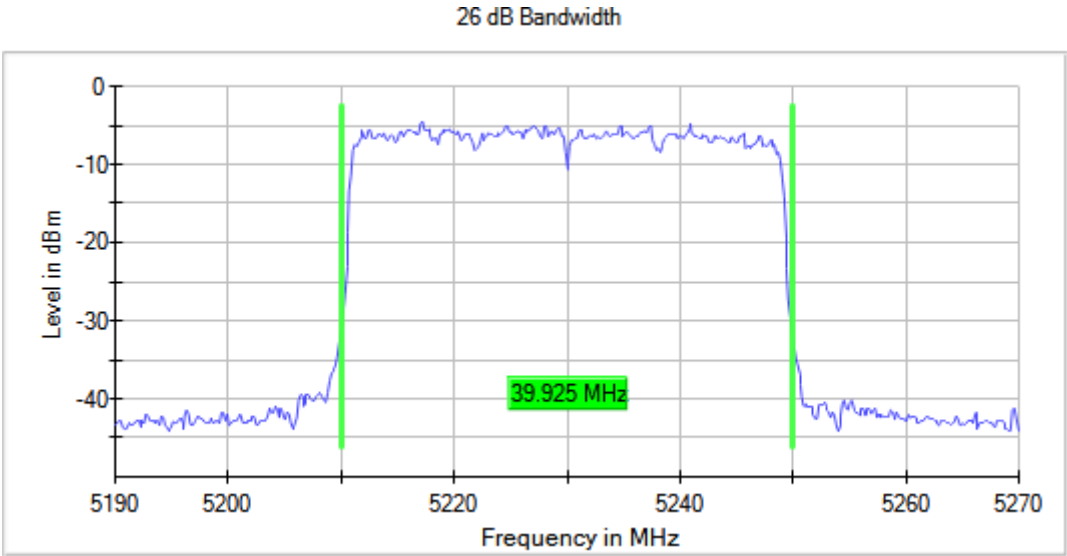
Operation Band MHz = [5150, 5250] Active Port = 1+2
 Frequency MHz = 5190.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



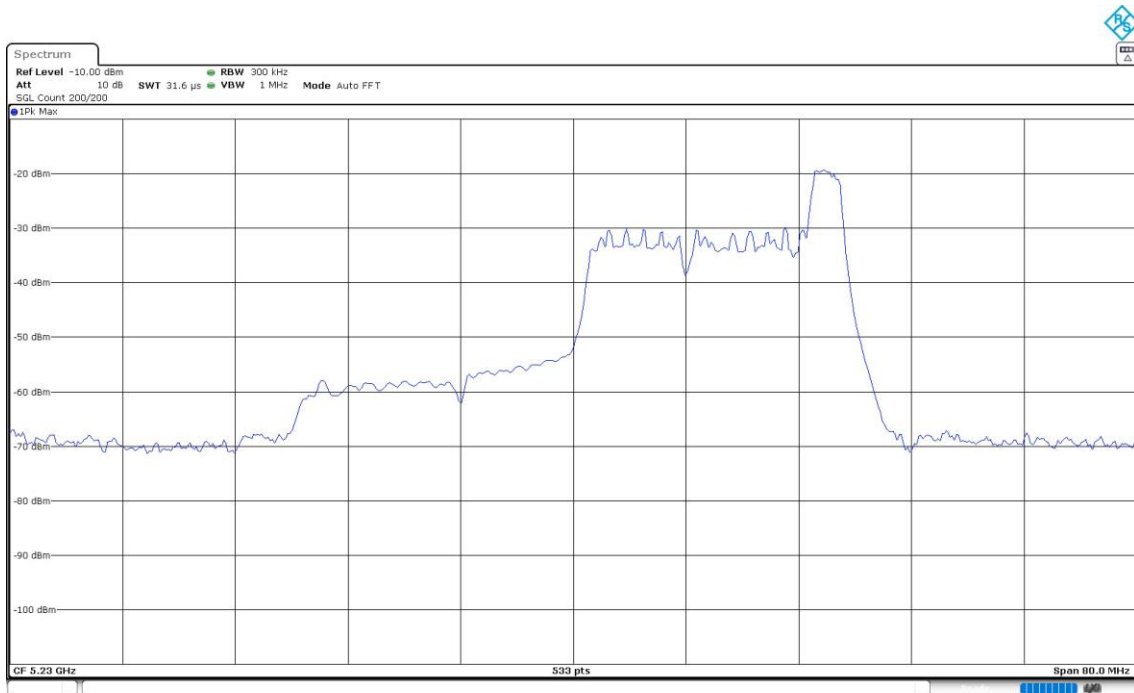
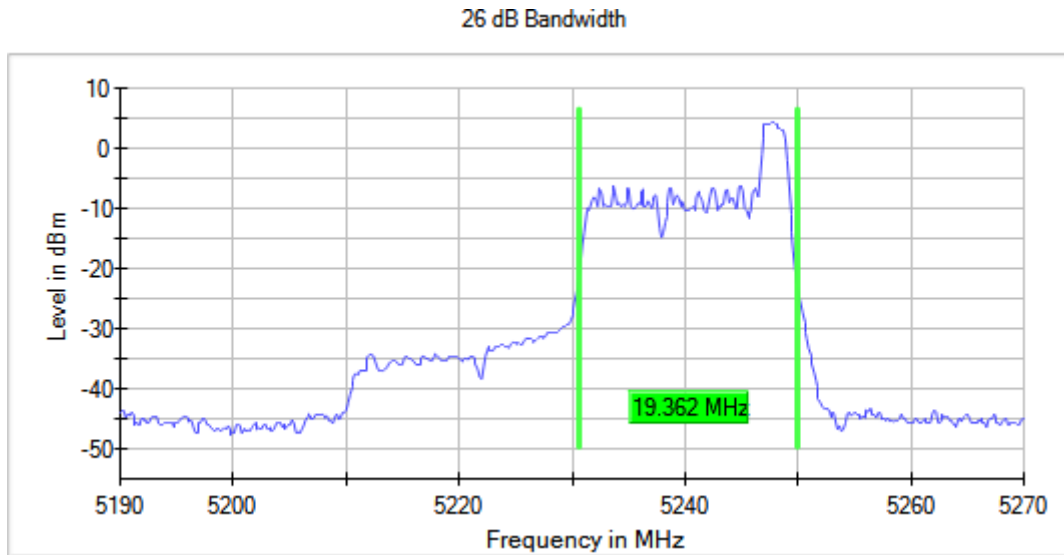
Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



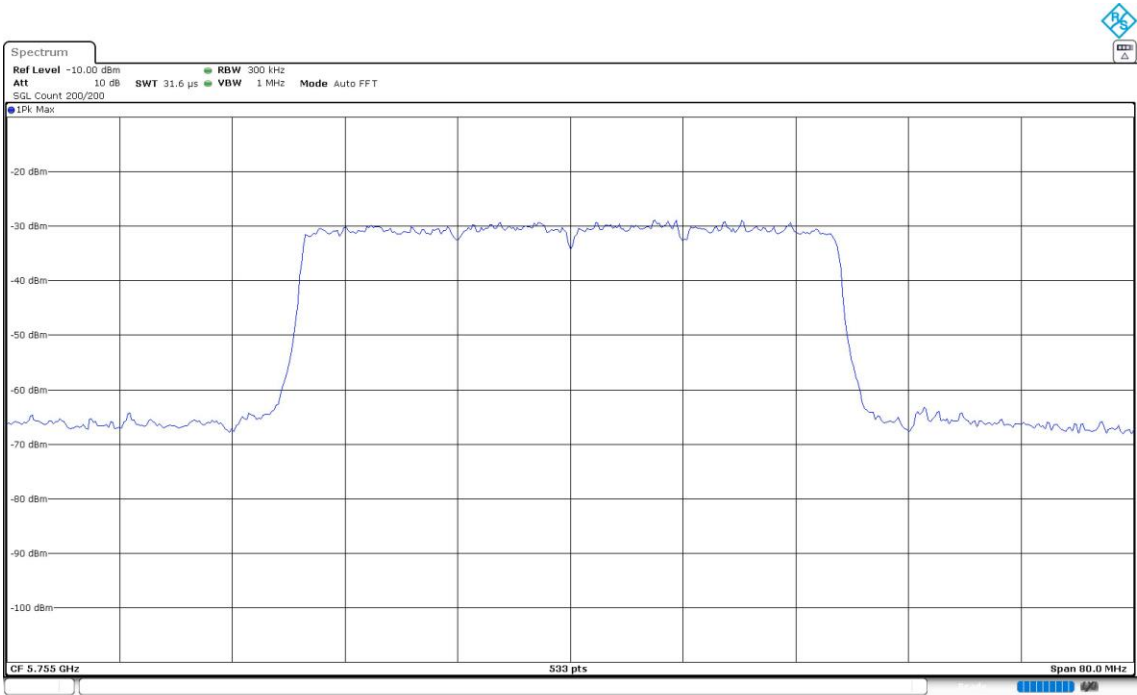
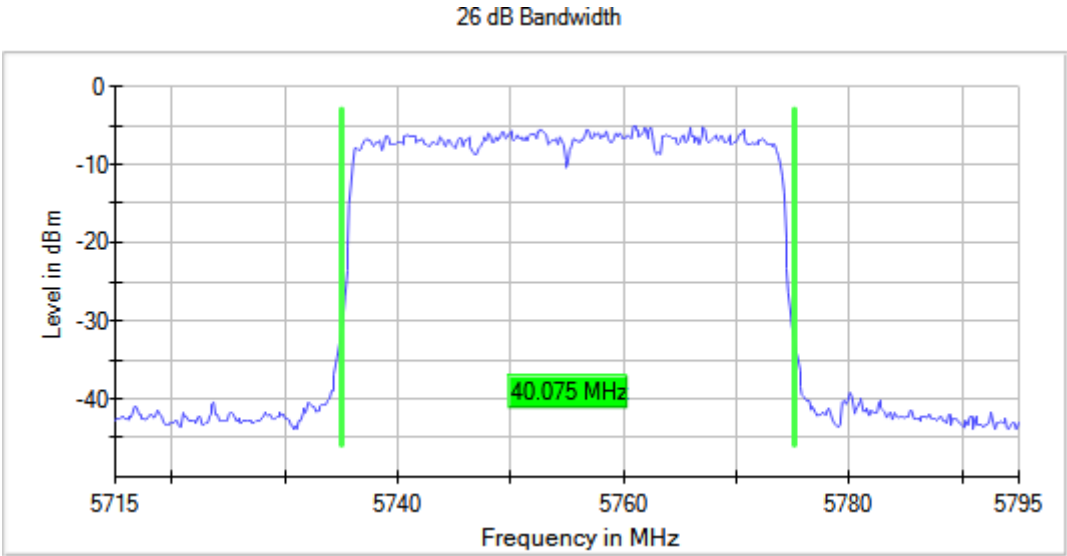
Operation Band MHz = [5150, 5250] Active Port = 1+2
 Frequency MHz = 5230.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



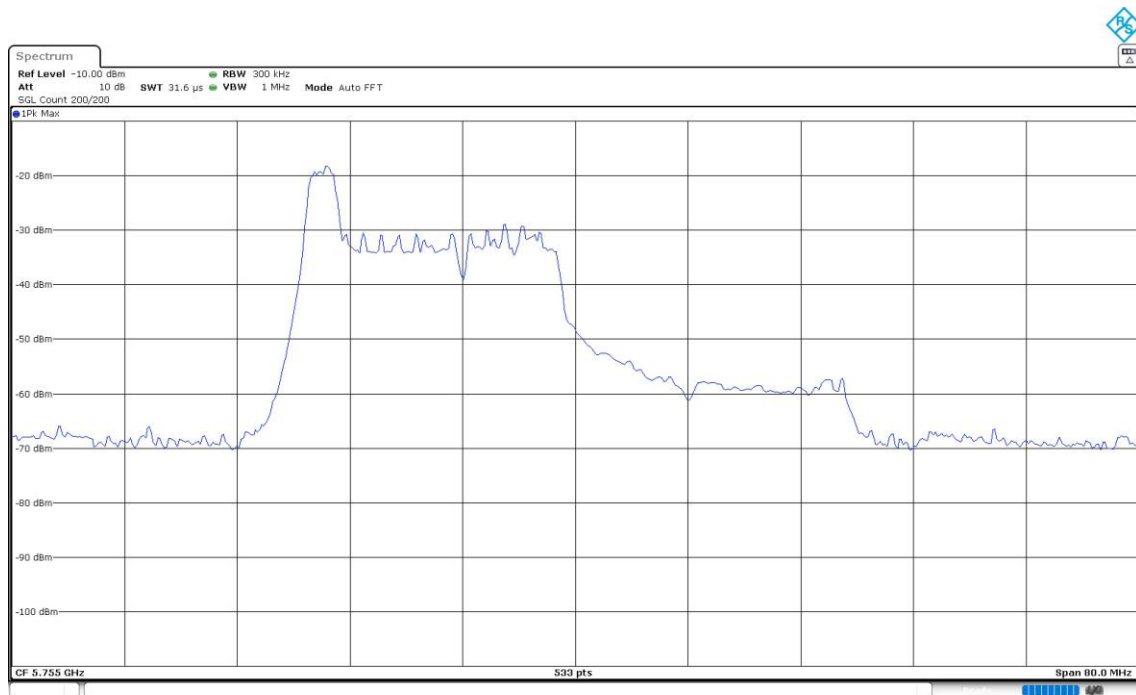
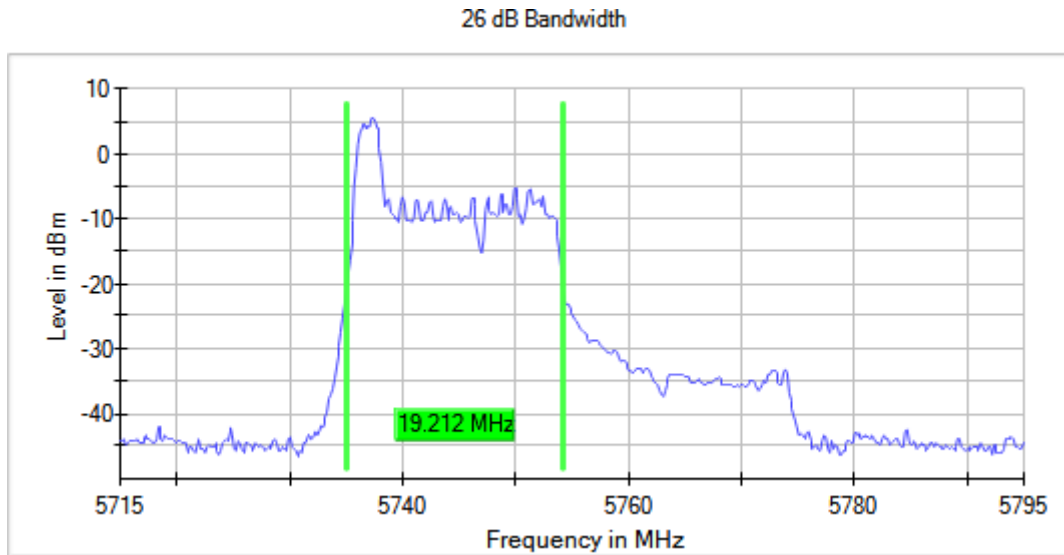
Operation Band MHz = [5725, 5850] Active Port = 1+2
Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



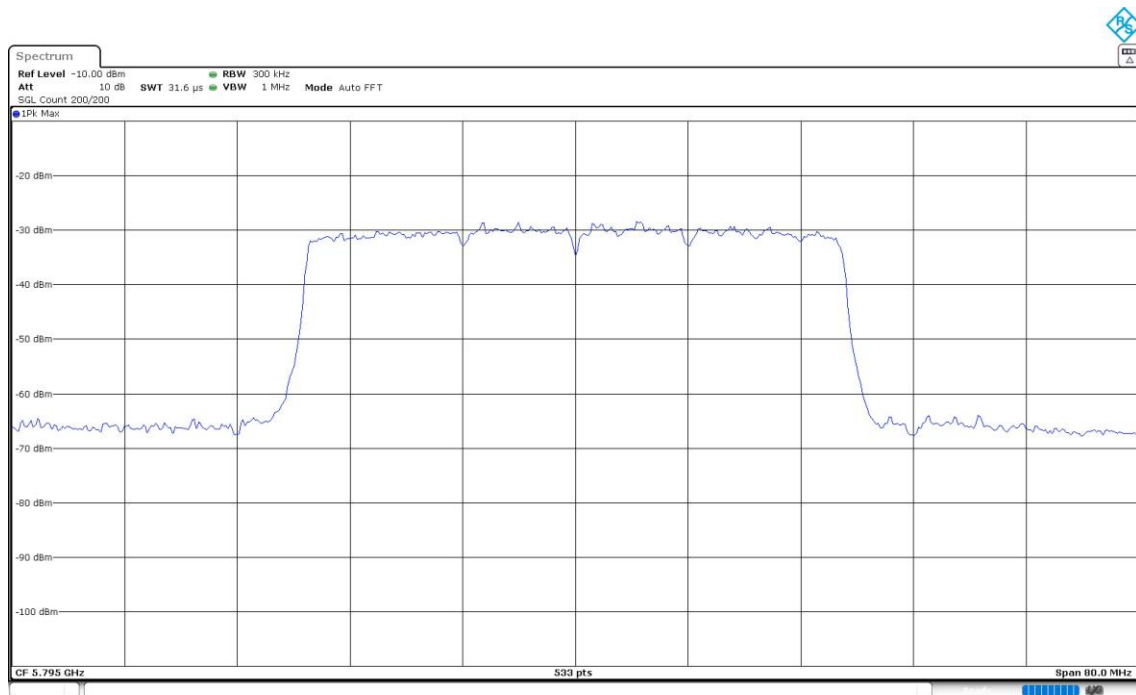
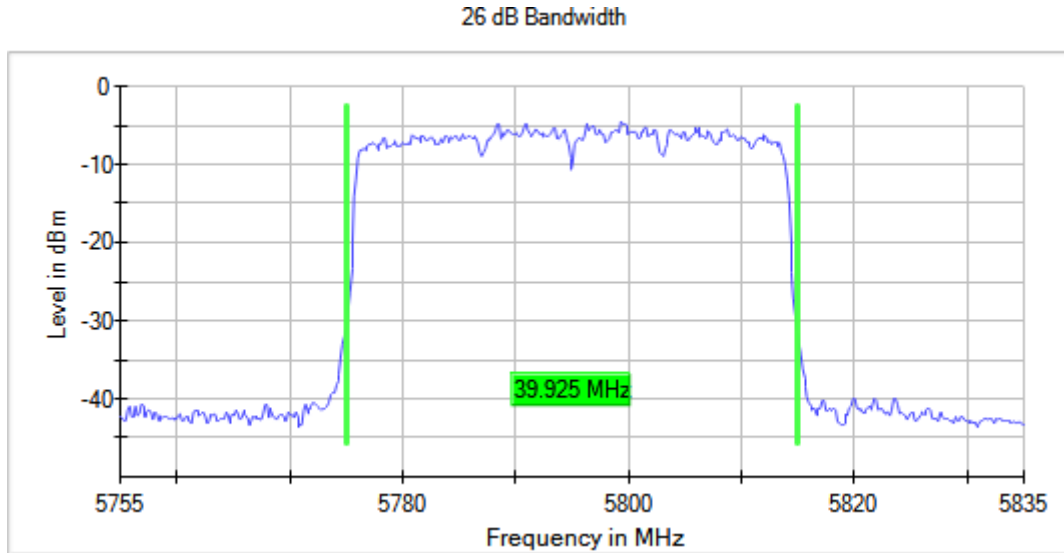
Operation Band MHz = [5725, 5850] Active Port = 1+2
 Frequency MHz = 5755.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = -484/65 Subcarrier Mode = RU

Images:



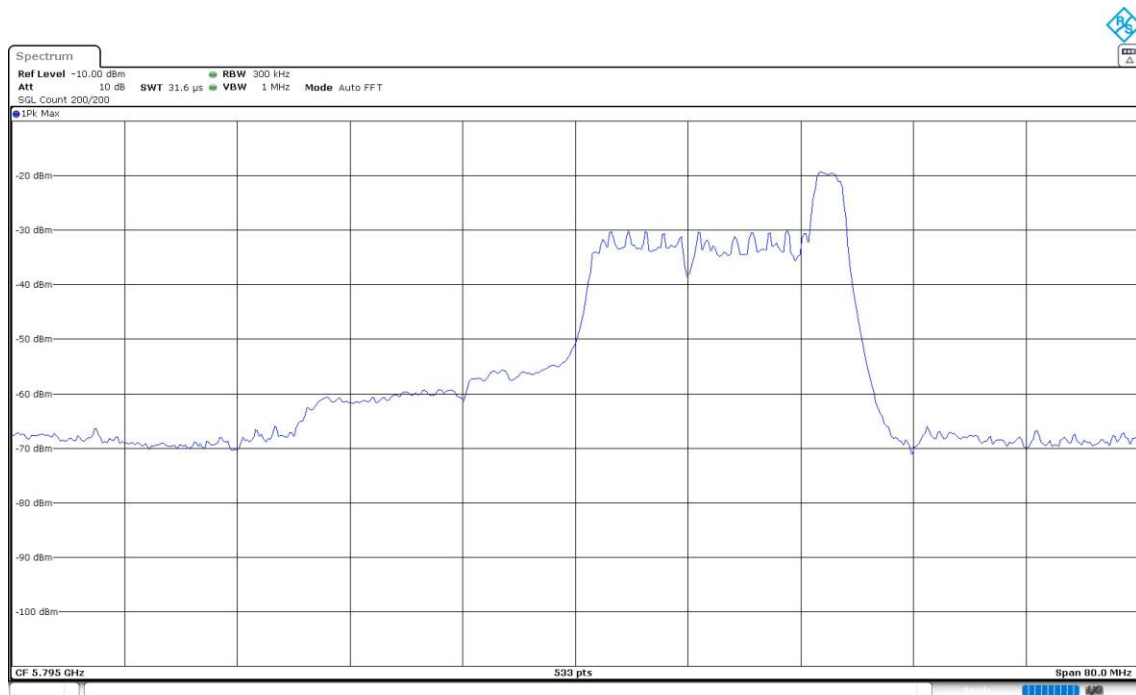
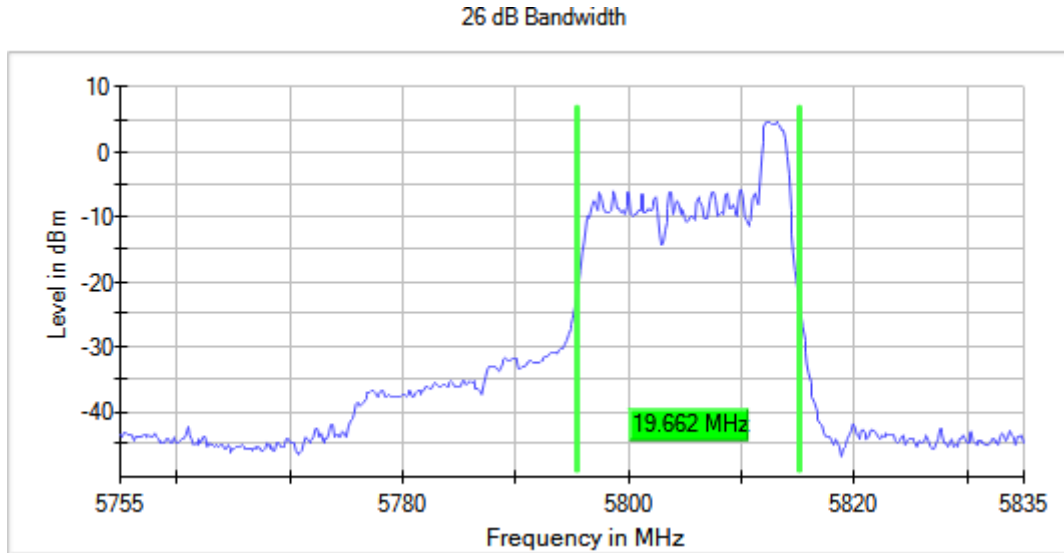
Operation Band MHz = [5725, 5850] Active Port = 1+2
 Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



Operation Band MHz = [5725, 5850] Active Port = 1+2
 Frequency MHz = 5795.00000 Modulation = 802.11ax HE40 (OFDMA MCS0)
 Resource Unit Tone/Index = 484/65 Subcarrier Mode = RU

Images:



Modulation: 802.11ax HE80 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	Subcarrier Mode	Ebw (MHz)
[5150, 5250]	2	5210.00000	SU	82.500
[5150, 5250]	2	5210.00000	RU	21.500
[5725, 5850]	4	5775.00000	SU	22.000
[5725, 5850]	4	5775.00000	RU	22.000
[5150, 5250]	1+2	5210.00000	SU	82.500
[5150, 5250]	1+2	5210.00000	RU	25.000
[5725, 5850]	1+2	5775.00000	SU	83.000
[5725, 5850]	1+2	5775.00000	RU	21.000

Verdict

Pass

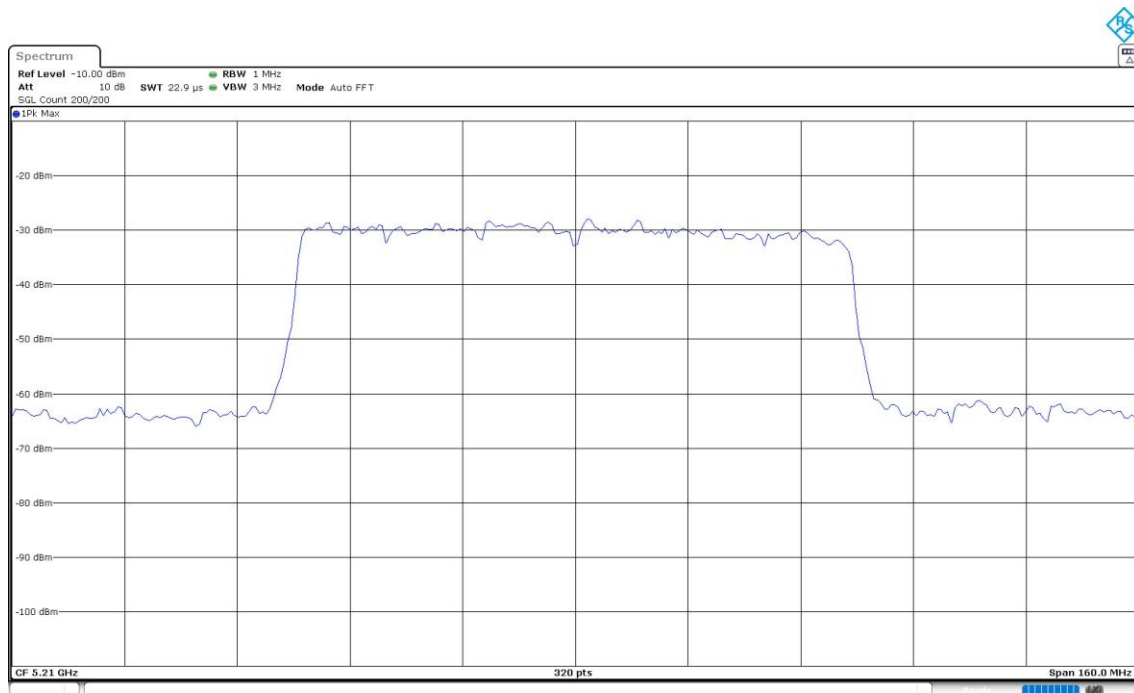
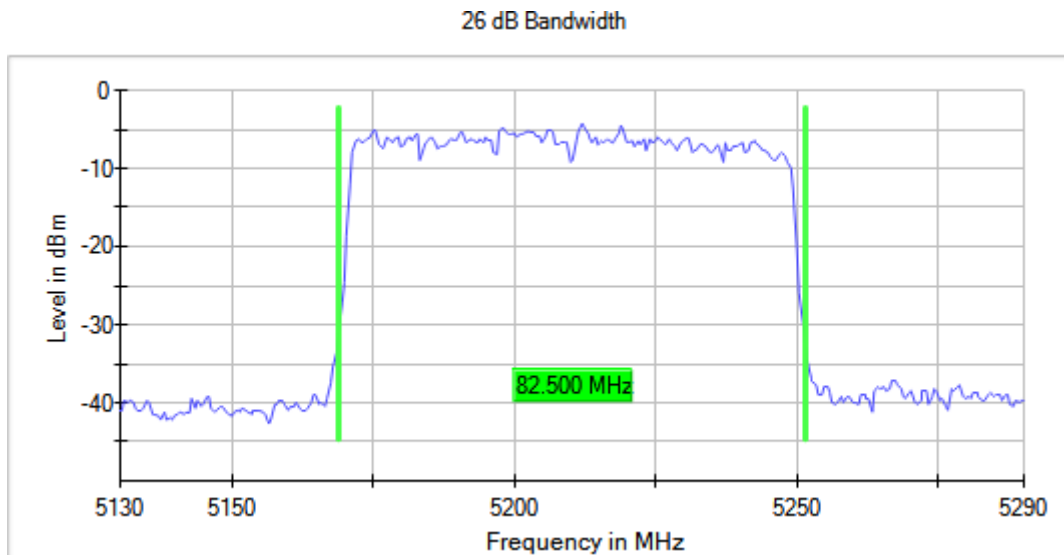
Attachments

Operation Band MHz = [5150, 5250] Active Port = 2

Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)

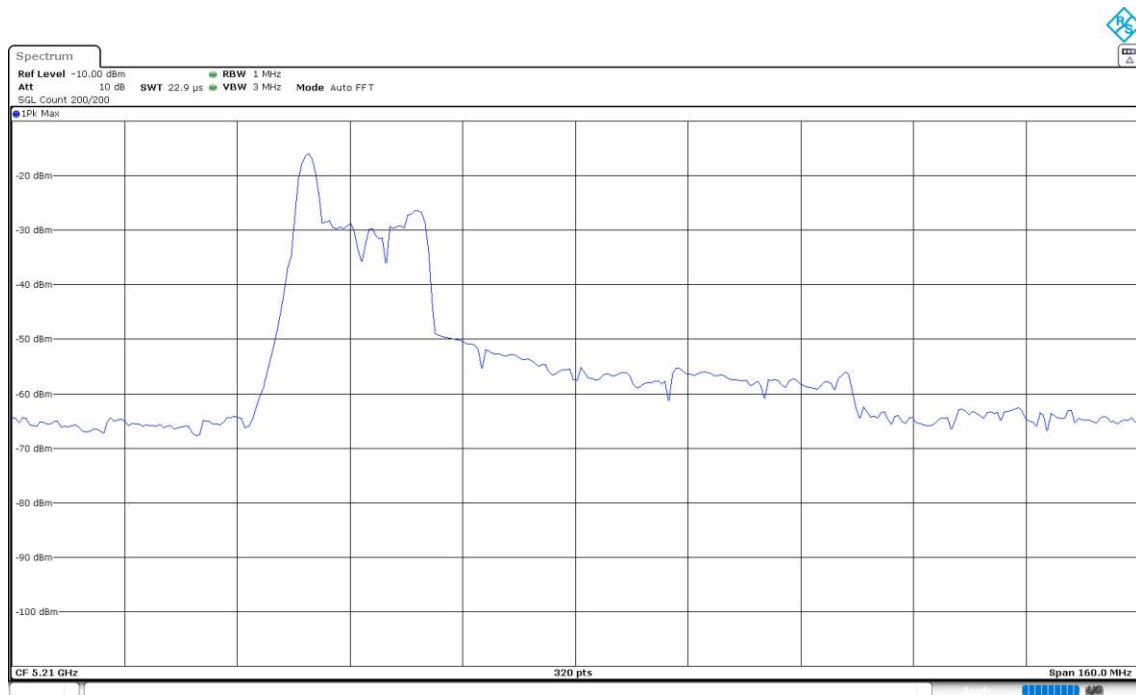
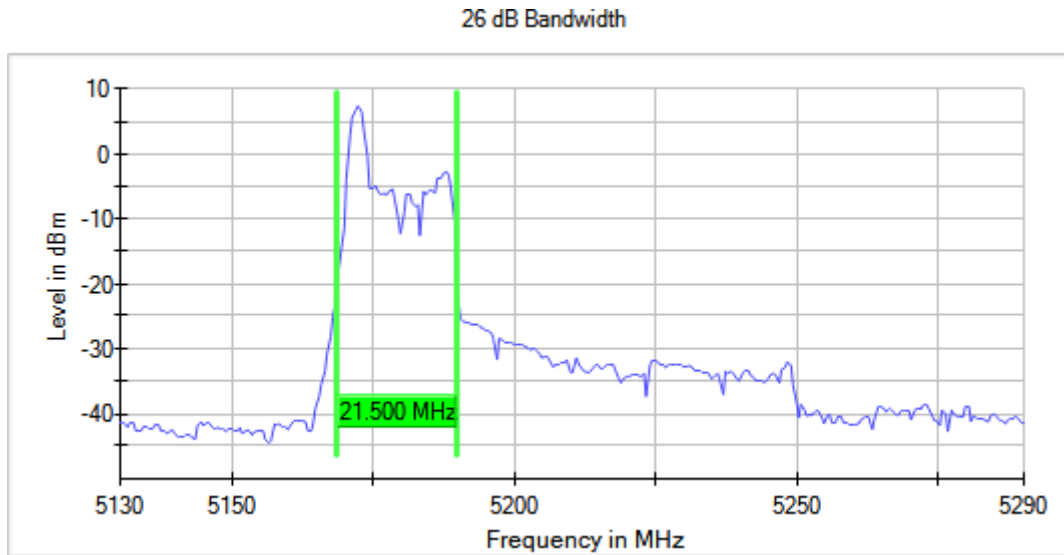
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



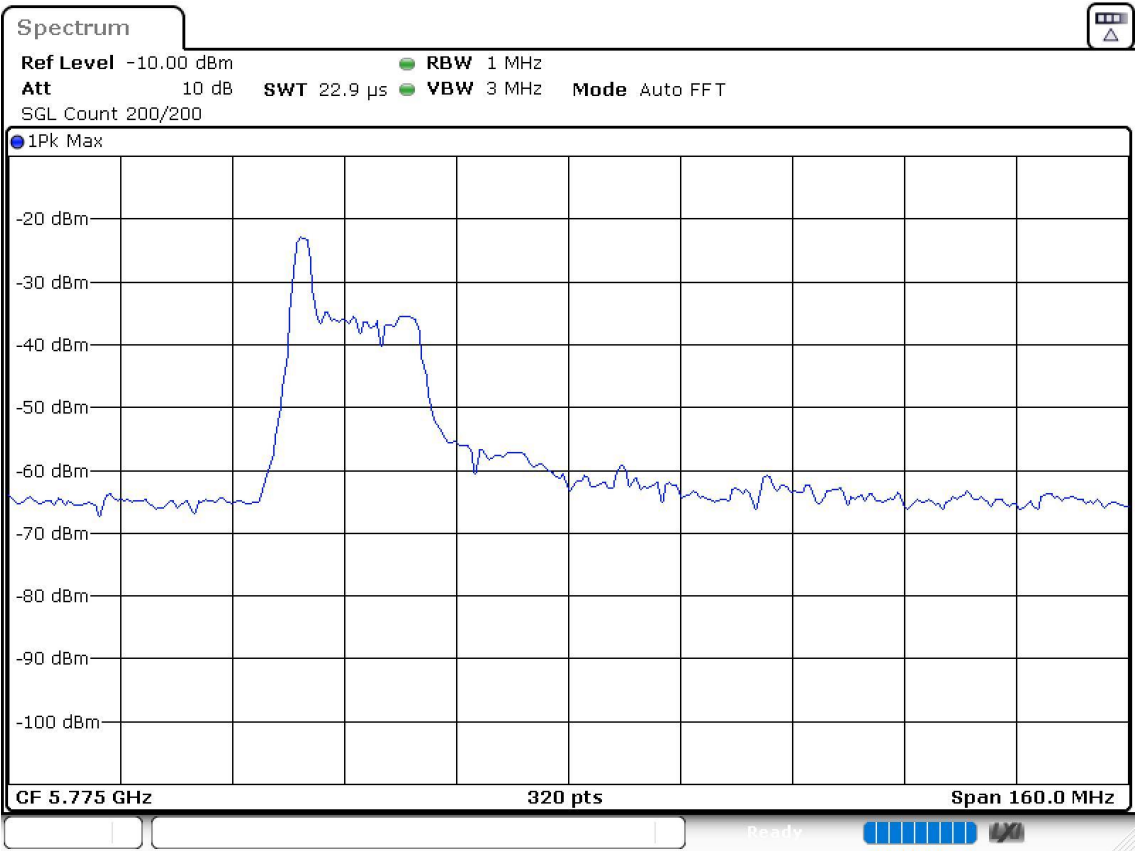
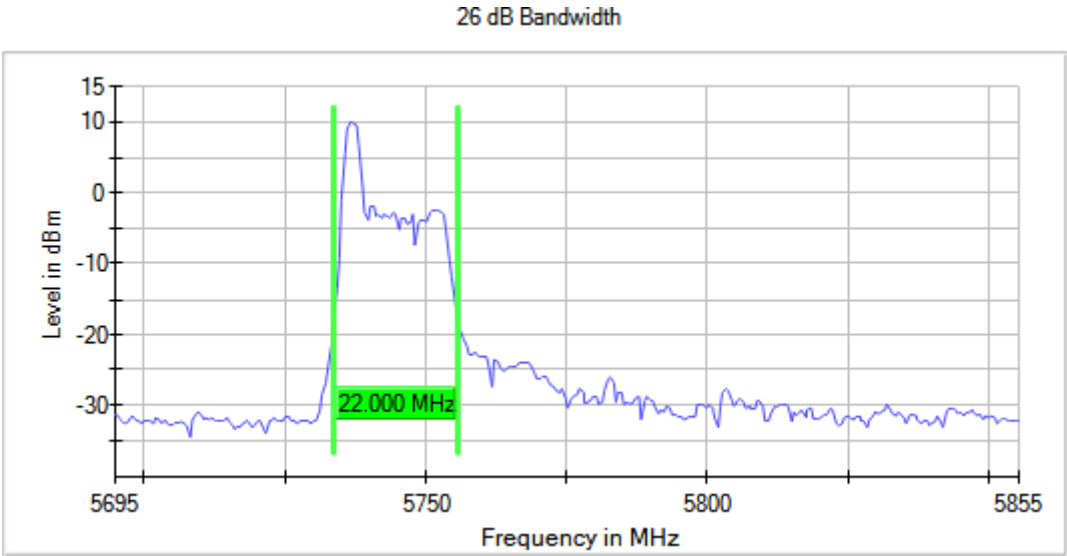
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
Resource Unit Tone/Index = 996/67 Subcarrier Mode = RU

Images:



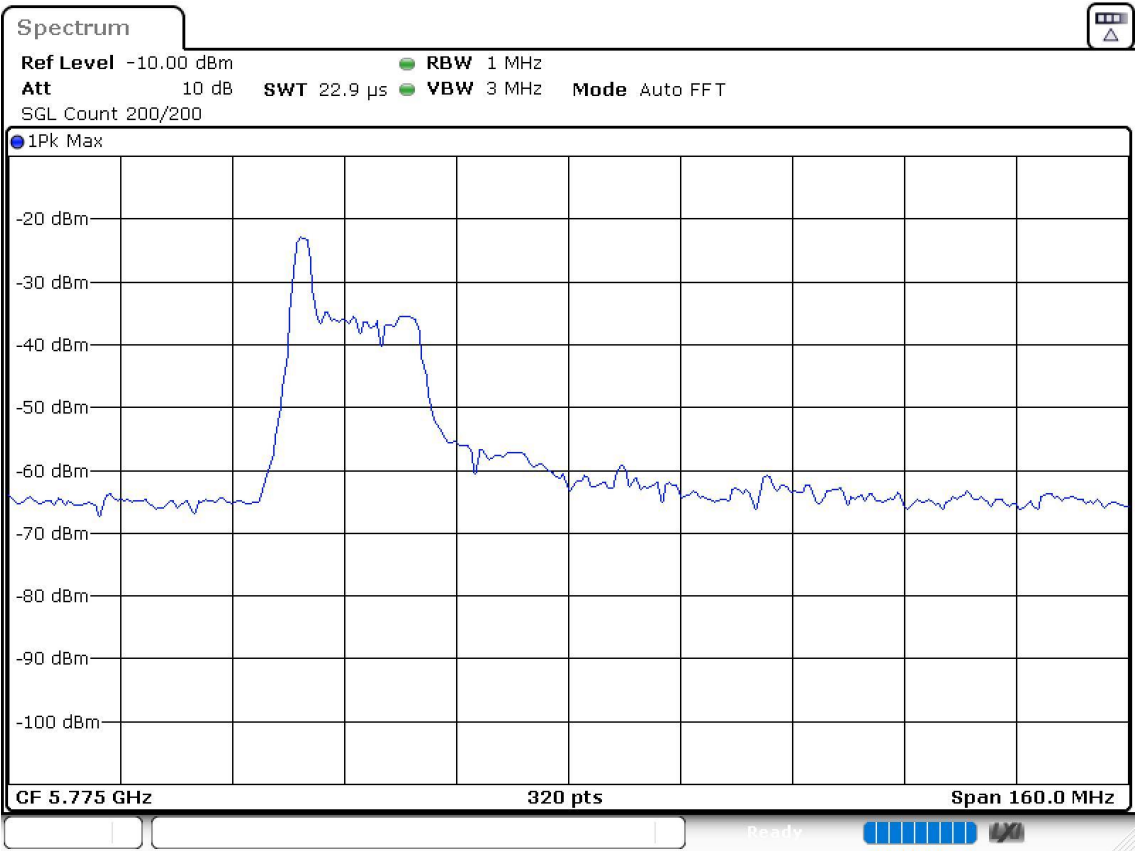
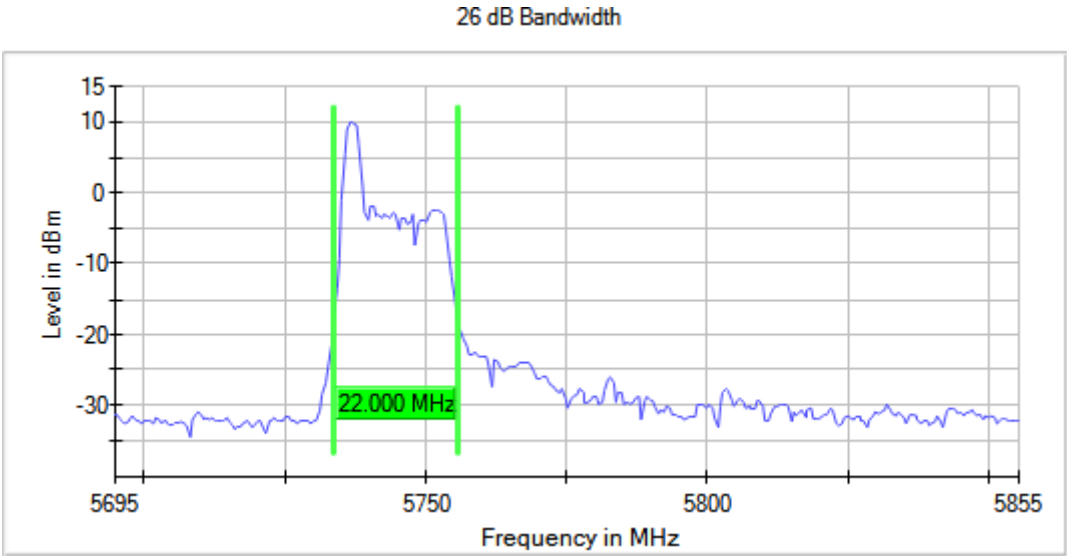
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



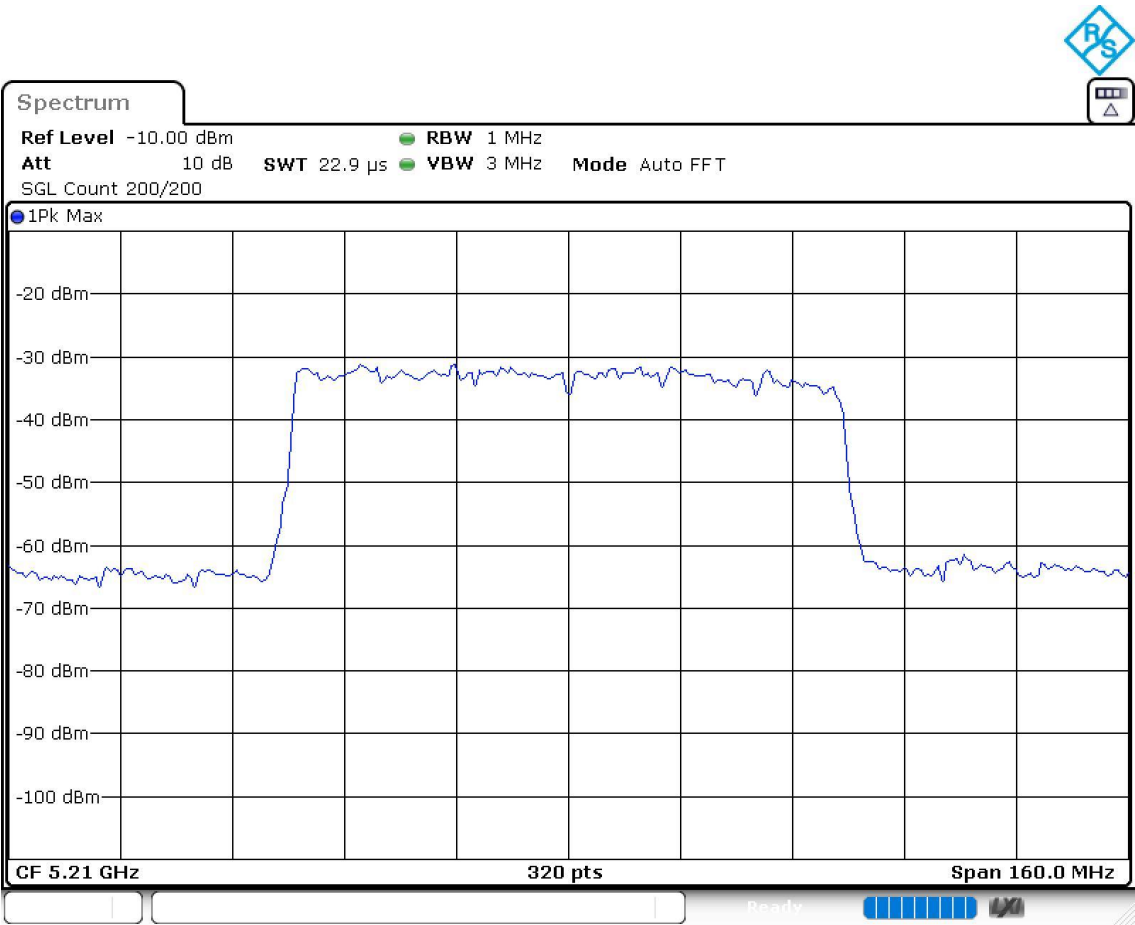
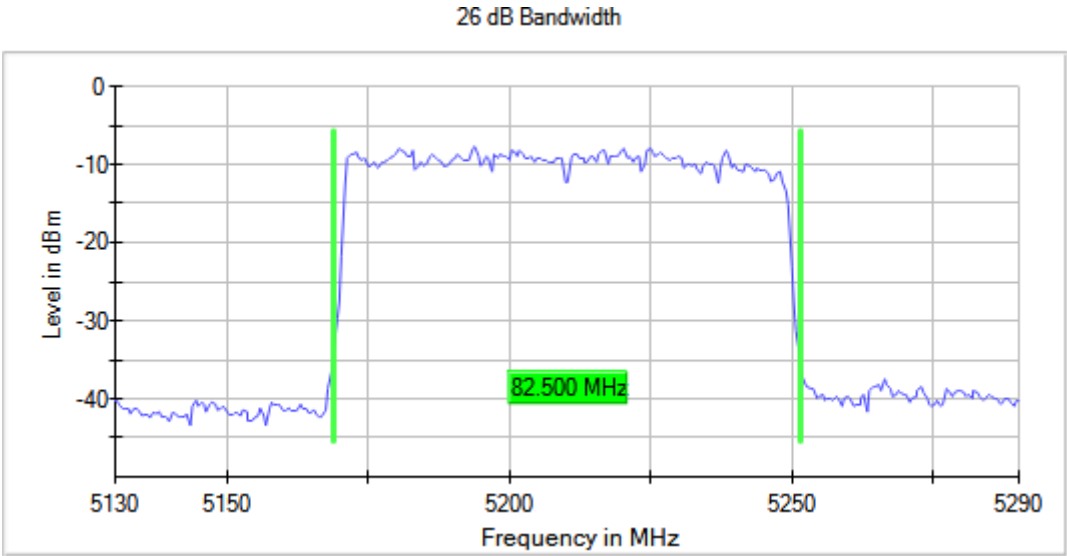
Operation Band MHz = [5725, 5850] Active Port = 4
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
Resource Unit Tone/Index = 996/67 Subcarrier Mode = RU

Images:



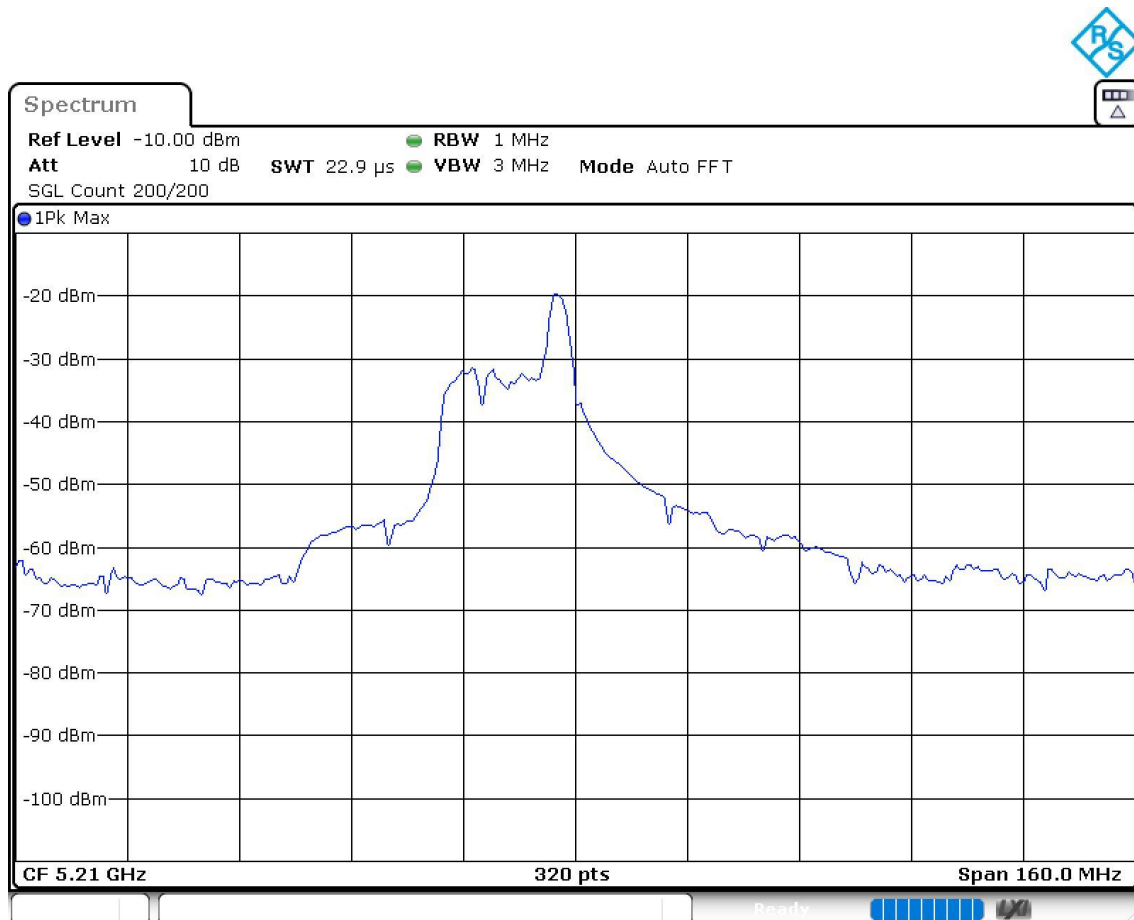
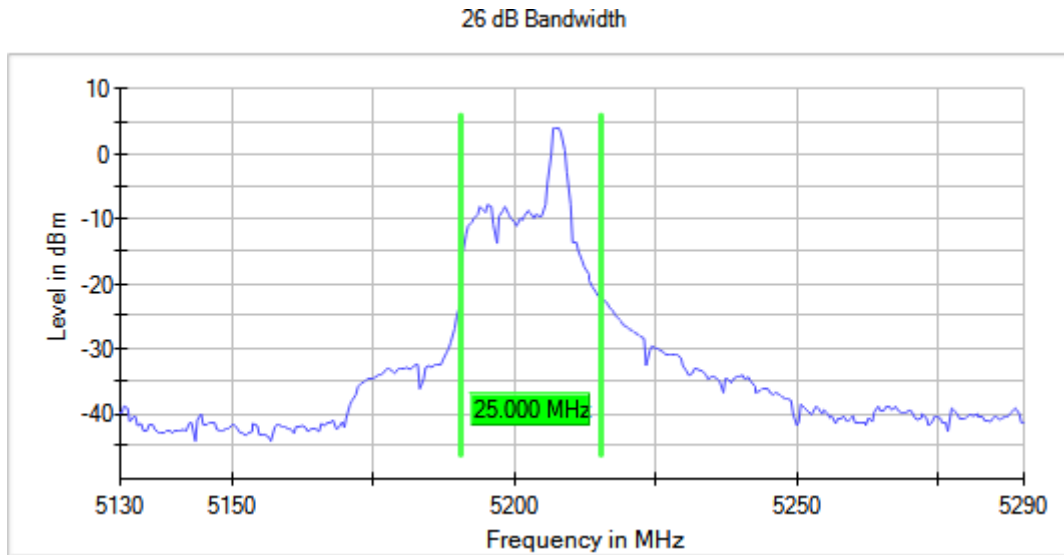
Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



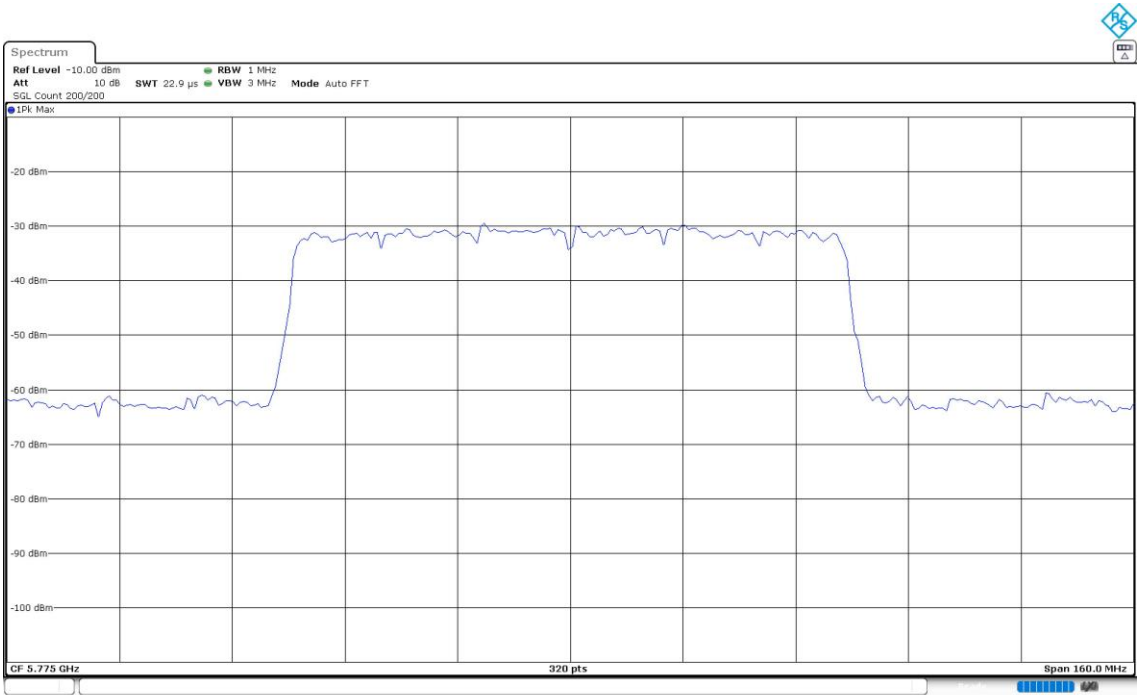
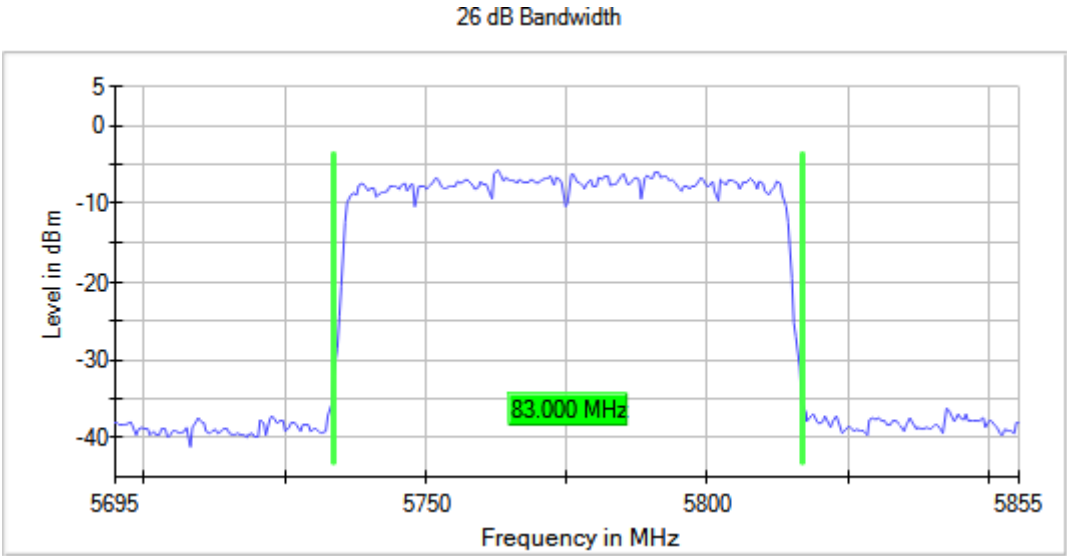
Operation Band MHz = [5150, 5250] Active Port = 1+2
 Frequency MHz = 5210.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
 Resource Unit Tone/Index = 996/67 Subcarrier Mode = RU

Images:



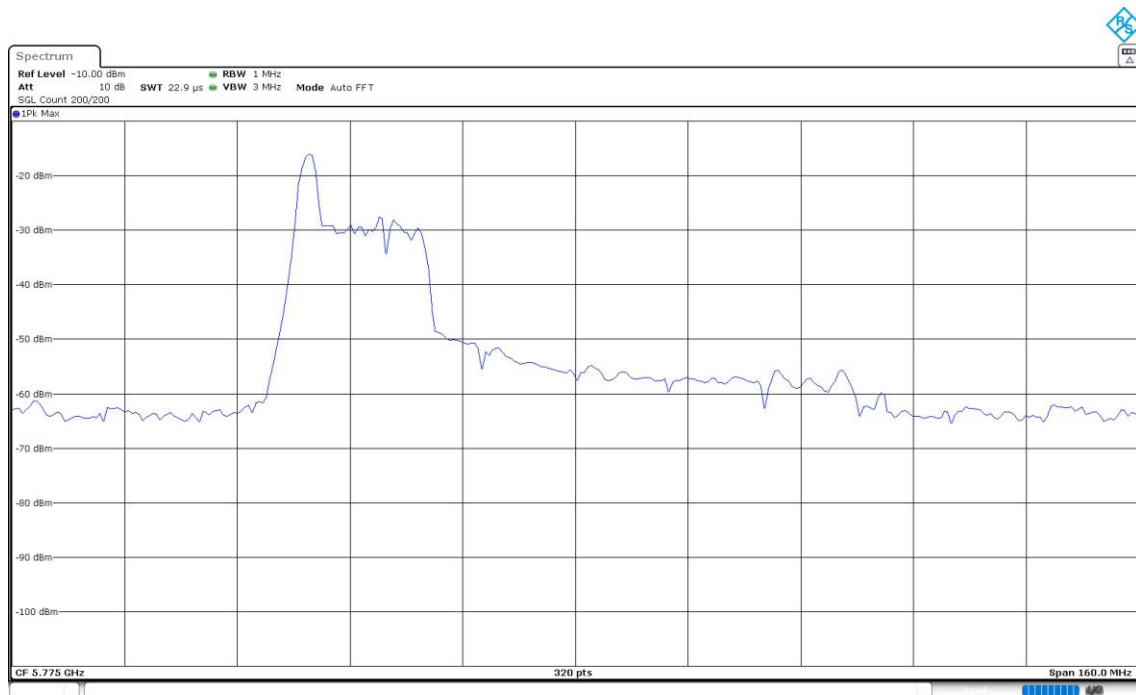
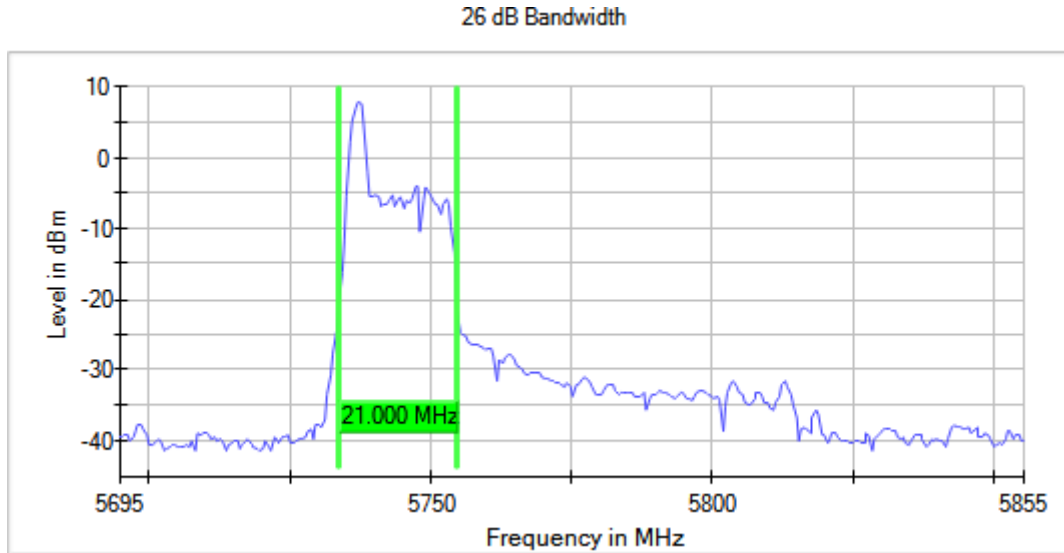
Operation Band MHz = [5725, 5850] Active Port = 1+2
Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
Resource Unit Tone/Index = Subcarrier Mode = SU

Images:



Operation Band MHz = [5725, 5850] Active Port = 1+2
 Frequency MHz = 5775.00000 Modulation = 802.11ax HE80 (OFDMA MCS0)
 Resource Unit Tone/Index = 996/67 Subcarrier Mode = RU

Images:



Appendix B: Tests results for the U-NII-1 Band 5.15–5.25 GHz

TEST CONDITIONS	241
TEST CASES DETAILS	247
FCC 47 CFR PART 15.407 / RSS-247 / RSS-248	247
RSS-247 7.3.1.2 / FCC 15.407 (a) (1) [Avcp] Maximum Conducted output power UNII-1	247
RSS-247 7.3.1.2 / FCC 15.407 (a) (1) [Psd] Transmitter Maximum Power Spectral Density UNII-1	250
RSS-247 7.3.1.3 / FCC 15.407 (b) (1) (6) [Rse] Transmitter Out of Band Radiated Emissions For transmitters operating in the 5.15–5.25 GHz.....	331
RSS-247 7.3.1.3 / FCC 15.407 (b) (1) [Bndedge] Transmitter Out of Band Radiated Emissions for UNII-1 ...	360

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 12Vdc

Type of Power Supply: External power supply (Vehicle Battery)

ANTENNA (*):

Type of Antenna: External

Antenna Gain:

Port 2: -1.25 dBi

Port 4: -2.42 dBi

Directional Antenna Gain Calculations for CDD MIMO In-Band Measurements (for PSD test):

For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) y F)2)e)ii), directional gain, directional gain was calculated as follows:

$$N_{SS} = 1, N_{ANT} = 2, G_{ANT0} = -1.25, G_{ANT1} = -2.42$$

$$\begin{aligned} \text{Directional Gain} &= 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 \left(\sum_{k=1}^2 g_{j,k} \right)^2}{2} \right] \\ &= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{-1.25}{20}} + 10^{\frac{-2.42}{20}})^2}{2} \right] = 1.2 \text{ dBi} \end{aligned}$$

TEST FREQUENCIES (*):

Technology Tested:	WLAN (IEEE 802.11 a,n,ac,ax) 2x2 / U-NII-1	
	802.11a OFDM 6 Mbit/s SISO	
	802.11 n HT20: MCS0 to MCS23 SISO & MIMO 2x2	
	802.11 n HT40: MCS0 to MCS23 SISO & MIMO 2x2	
	802.11 ac VHT20: MCS0 to MCS9 SISO & MIMO 2x2	
	802.11 ac VHT40: MCS0 to MCS9 SISO & MIMO 2x2	
	802.11 ac VHT80: MCS0 to MCS9 SISO & MIMO 2x2	
	802.11 ax HE20: MCS0 to MCS11 SISO & MIMO 2x2 – SU/RU	
	802.11 ax HE40: MCS0 to MCS11 SISO & MIMO 2x2– SU/RU	
	802.11 ax HE80: MCS0 to MCS11 SISO & MIMO 2x2– SU/RU	
Setting of cores / ports:	1+2	
Beamforming:	No.	
Frequency Range:	5150 MHz to 5250 MHz	
Channel Spacing:	20 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Low: 36	5180
	Middle: 40	5200
	High: 48	5240
Channel Spacing:	40 MHz	
Transmit Channels	Channel	Channel Frequency (MHz)
	Low: 38	5190
	High: 46	5230
Channel Spacing:	80 MHz	
Transmit Channels	Middle: 42	5210

The test set-up was made in accordance to the general provisions of FCC Unlicensed National Information Infrastructure (U-NII) Devices 789033 D02 General U-NII Test Procedures New Rules v02r01 dated Dec 14, 2017.

The EUT was tested in the following operating mode:

- Continuously transmitting with a modulated carrier at maximum power in all required channels using the supported data rates/modulations types.

The field strength at the band edges was evaluated for each mode on the lowest and highest channels at the rated power for the channel under test.

For all modes, the EUT was configured in test mode using a software application. The application was used to enable a continuous transmission and to select the test channels as required. The client supplied instructions to configure the EUT. The customer supplied a document containing the setup instructions.

The worst cases for testing were identified for output power and spurious levels at the band edges which were selected based on preliminary testing that correspond to next data rates:

- 802.11a OFDM 6 Mbit/s
- 802.11 n HT20: MCS0
- 802.11 n HT40: MCS0
- 802.11 ac VHT20: MCS0
- 802.11 ac VHT40: MCS0
- 802.11 ac VHT80: MCS0
- 802.11 ax HE20: MCS0
- 802.11 ax HE40: MCS0
- 802.11 ax HE80: MCS0

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

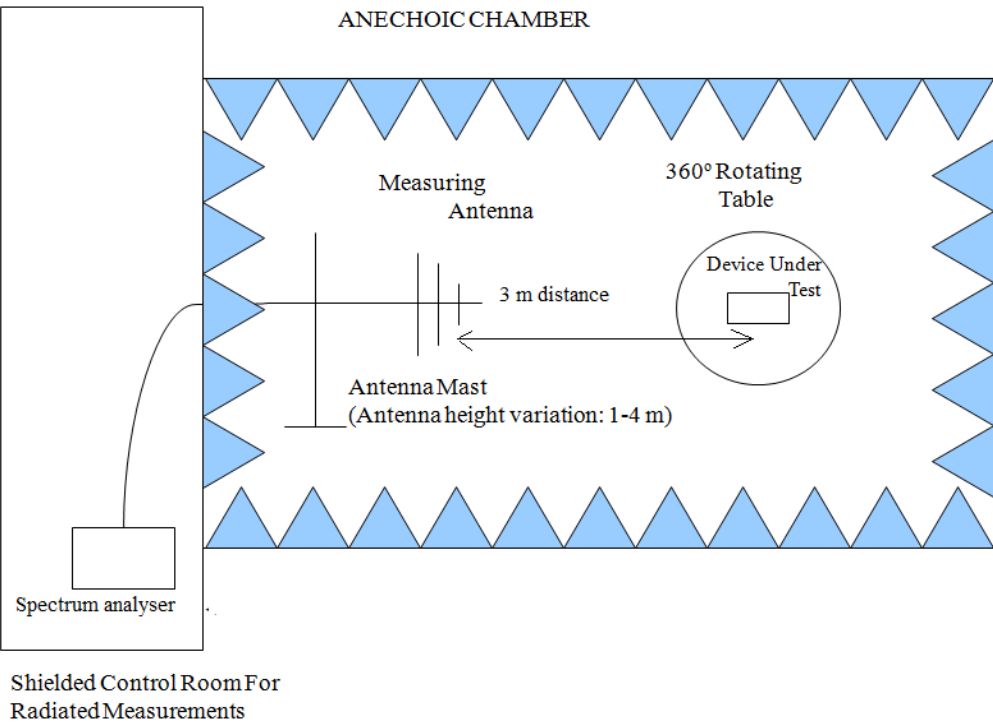
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

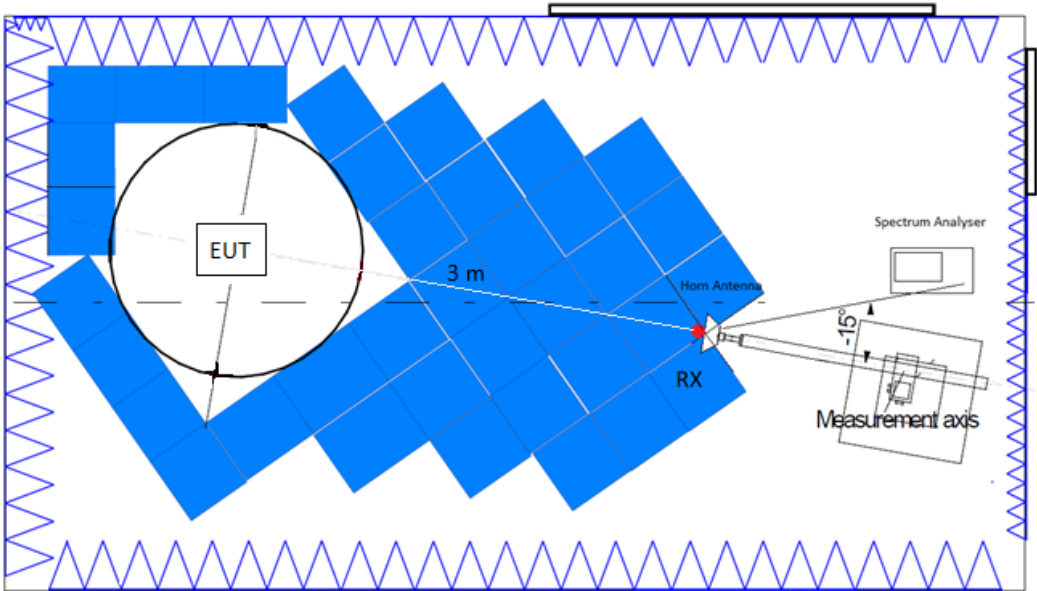
The final measured value, for the given emission, in the tables below incorporates the calibrated antenna factor and cable loss.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

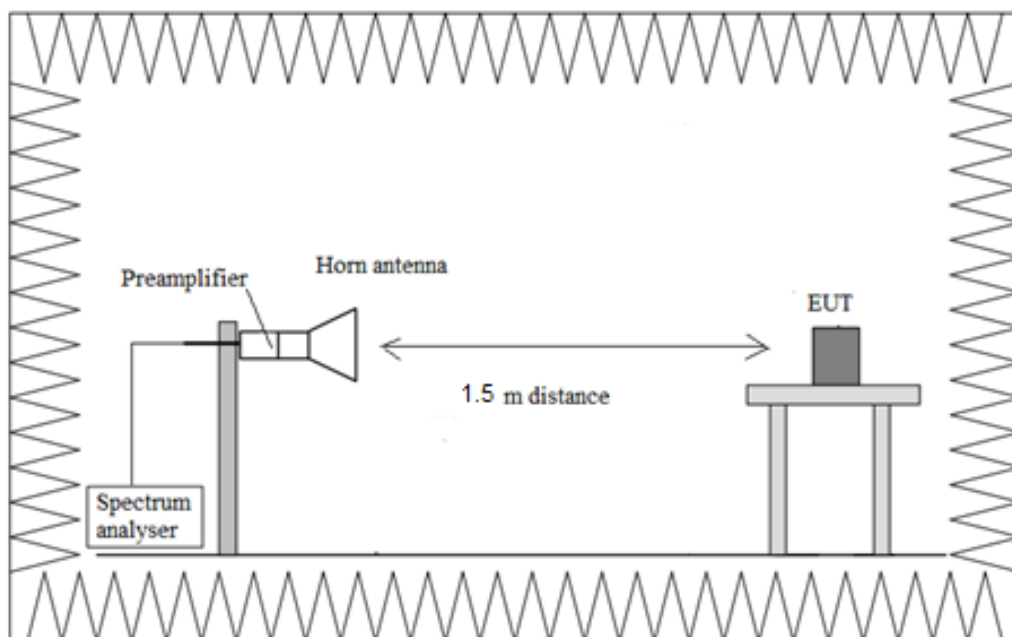
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

FCC 47 CFR Part 15.407 / RSS-247 / RSS-248

RSS-247 7.3.1.2 / FCC 15.407 (a) (1) [Avcp] Maximum Conducted output power UNII-1

Limits

* FCC 15.407: For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247:

The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less.

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5180.00000	No	13.27	14.52
		5200.00000		13.57	14.82
		5240.00000		13.99	15.24
	1+2	5180.00000		9.58	8.38
		5200.00000		9.70	8.50
		5240.00000		9.76	8.56

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5190.00000	No	13,3	14.55
		5230.00000		13,21	14.46
	1+2	5190.00000		10.90	10.90
		5230.00000		10.57	10.57

Verdict

Pass

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5180.00000	No	13.36	14.61
		5200.00000		13.51	14.76
		5240.00000		13.96	15.21

Modulation: 802.11ac VHT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5180.00000	No	11.28	12.53
		5200.00000		11.39	12.64
		5240.00000		11.89	13.14
	1+2	5180.00000		8.97	7.77
		5200.00000		9.19	7.99
		5240.00000		9.32	8.12

Modulation: 802.11ac VHT40 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5190.00000	No	8,69	9.94
		5230.00000		8,97	10.22
	1+2	5190.00000		7.83	6.63
		5230.00000		7.87	6.67

Modulation: 802.11ac VHT80 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5210.00000	No	3.61	4.86
	1+2			5.47	4.27

Modulation: 802.11ax HE20 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Subcarrier Mode	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5180.00000	No	SU	11,38	12.63
[5150, 5250]	2	5180.00000	No	RU	10,76	12.01
[5150, 5250]	2	5200.00000	No	SU	11,39	12.64
[5150, 5250]	2	5200.00000	No	RU	11,02	12.27
[5150, 5250]	2	5240.00000	No	SU	11,84	13.09
[5150, 5250]	2	5240.00000	No	RU	11,18	12.43
[5150, 5250]	1+2	5180.00000	No	SU	12.47	11.27
[5150, 5250]	1+2	5180.00000	No	RU	11.62	10.42
[5150, 5250]	1+2	5200.00000	No	SU	12.54	11.35
[5150, 5250]	1+2	5200.00000	No	RU	12.47	11.28
[5150, 5250]	1+2	5240.00000	No	SU	13.01	11.81
[5150, 5250]	1+2	5240.00000	No	RU	12.53	11.33

Modulation: 802.11ax HE40 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Subcarrier Mode	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5190.00000	No	SU	7,79	9.04
[5150, 5250]	2	5190.00000	No	RU	6,24	7.49
[5150, 5250]	2	5230.00000	No	SU	8,51	9.76
[5150, 5250]	2	5230.00000	No	RU	6,77	8.02
[5150, 5250]	1+2	5190.00000	No	SU	9.83	8.63
[5150, 5250]	1+2	5190.00000	No	RU	7.65	6.45
[5150, 5250]	1+2	5230.00000	No	SU	10.08	8.88
[5150, 5250]	1+2	5230.00000	No	RU	8.34	7.14

Modulation: 802.11ax HE80 (OFDMA MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Subcarrier Mode	Max EIRP (dBm)	Avg Power (dBm)
[5150, 5250]	2	5210.00000	No	SU	3.13	4.38
[5150, 5250]	2	5210.00000	No	RU	2.3	3.55
[5150, 5250]	1+2	5210.00000	No	SU	5.22	4.02
[5150, 5250]	1+2	5210.00000	No	RU	3.96	2.76

Verdict

Pass

RSS-247 7.3.1.2 / FCC 15.407 (a) (1) [Psd] Transmitter Maximum
Power Spectral Density UNII-1

Limits

FCC 15.407 (a)(2): For the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Gain for MIMO PSD:

Directional Antenna Gain Calculations for CDD MIMO In-Band Measurements (for PSD test):

For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)(ii) y F)2)e)ii), directional gain, directional gain was calculated as follows:

$$N_{SS} = 1, N_{ANT} = 2, G_{ANT0} = -1.25, G_{ANT1} = -2.42$$

$$Directional\ Gain = 10 \log \left[\frac{\sum_{j=1}^{N_{SS}} (\sum_{k=1}^{N_{ANT}} g_{j,k})^2}{N_{ANT}} \right] = 10 \log \left[\frac{\sum_{j=1}^1 (\sum_{k=1}^2 g_{j,k})^2}{2} \right]$$

$$= 10 \log \left[\frac{(g_{1,1} + g_{1,2})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}})^2}{2} \right] = 10 \log \left[\frac{(10^{\frac{-1.25}{20}} + 10^{\frac{-2.42}{20}})^2}{2} \right] = 1.2\ dBi$$

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5150, 5250]	2	5180.00000	No	5176.633663	-1.63
		5200.00000		5198.613861	-1.00
		5240.00000		5236.831683	-0.63
	1+2	5180.00000		5181.584158	-7.94
		5200.00000		5202.574257	-7.38
		5240.00000		5244.752475	-7.56

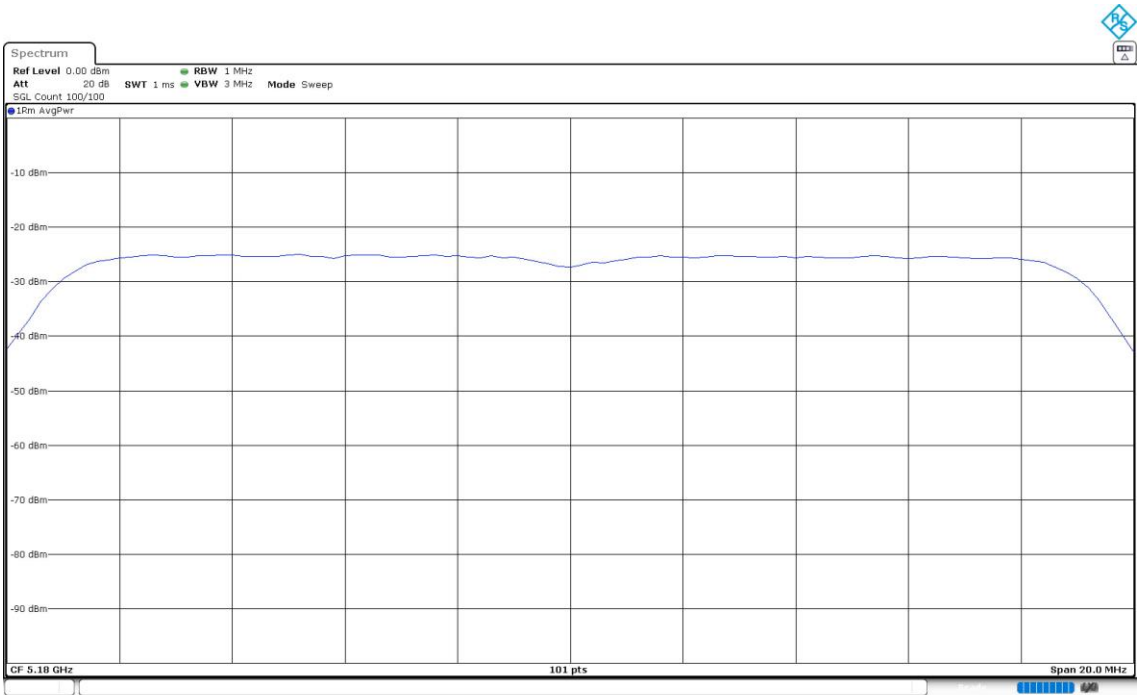
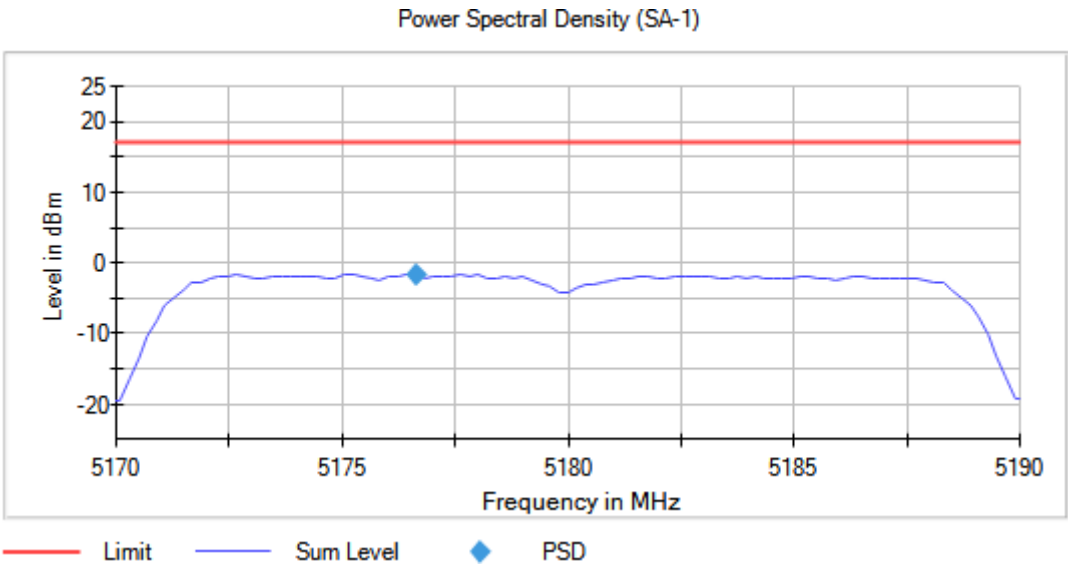
Verdict

Pass

Attachments

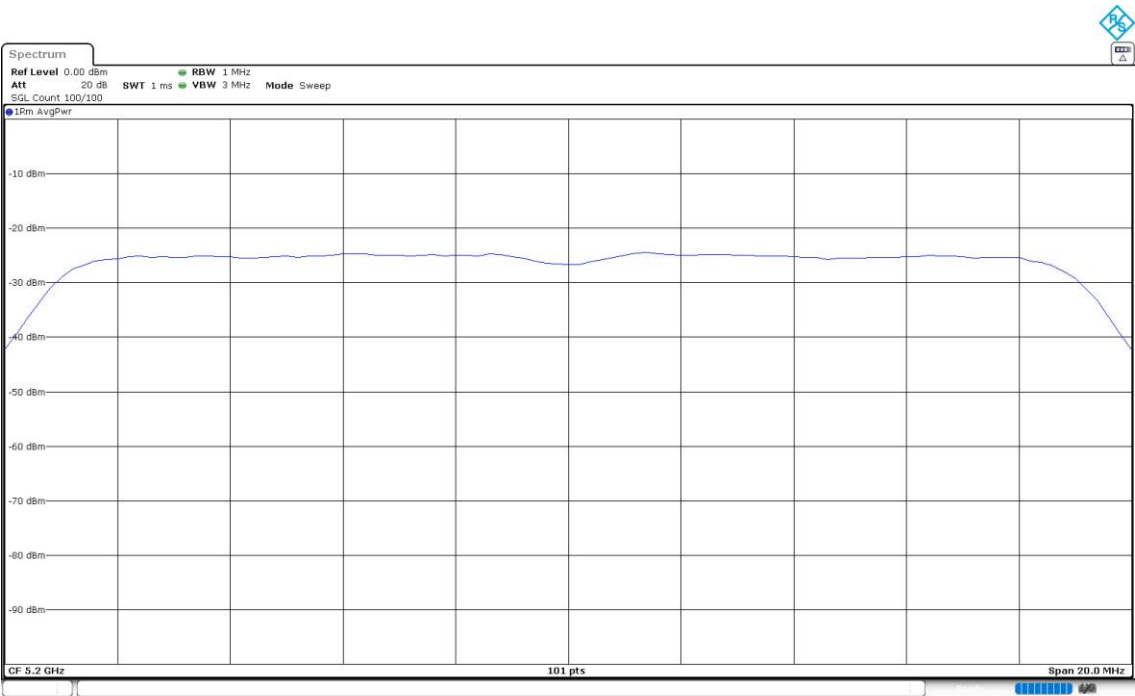
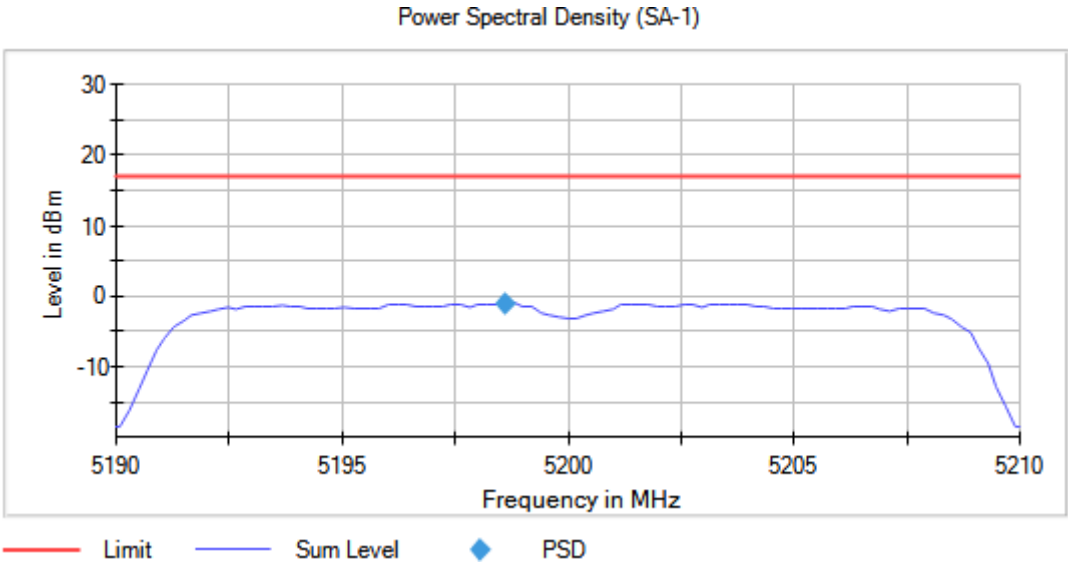
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5180.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

Images:



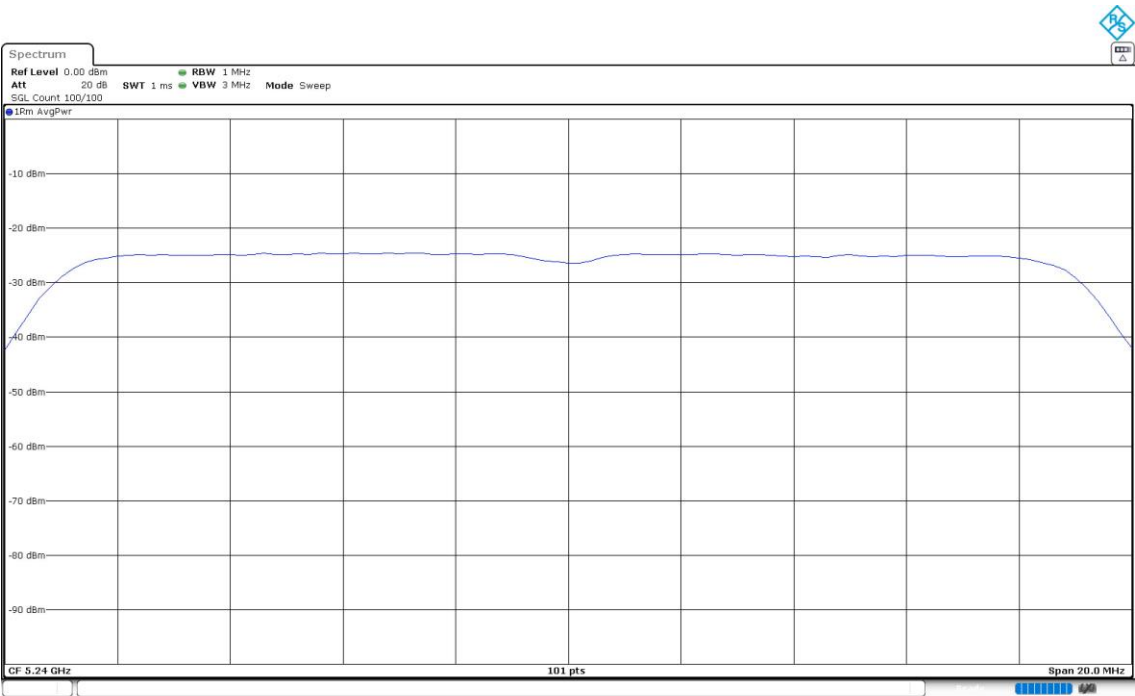
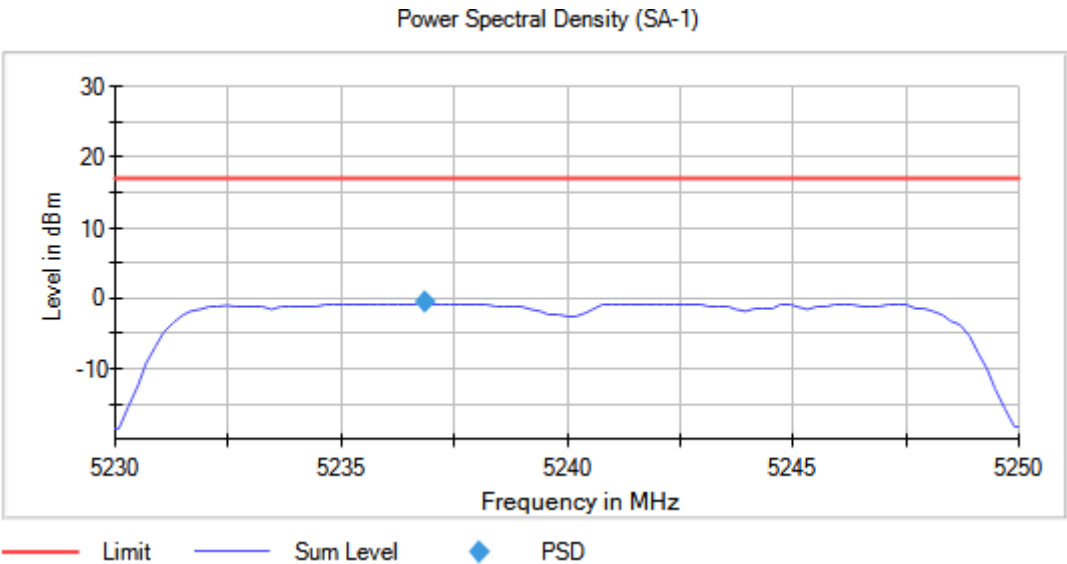
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5200.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

Images:



Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5240.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

Images:



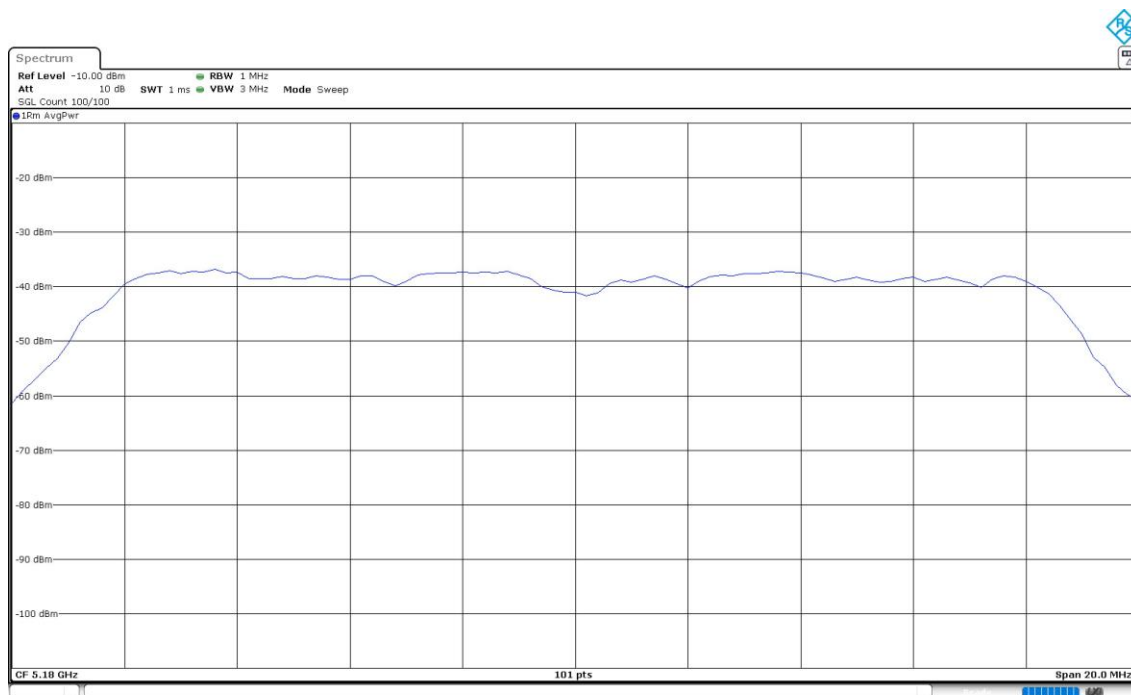
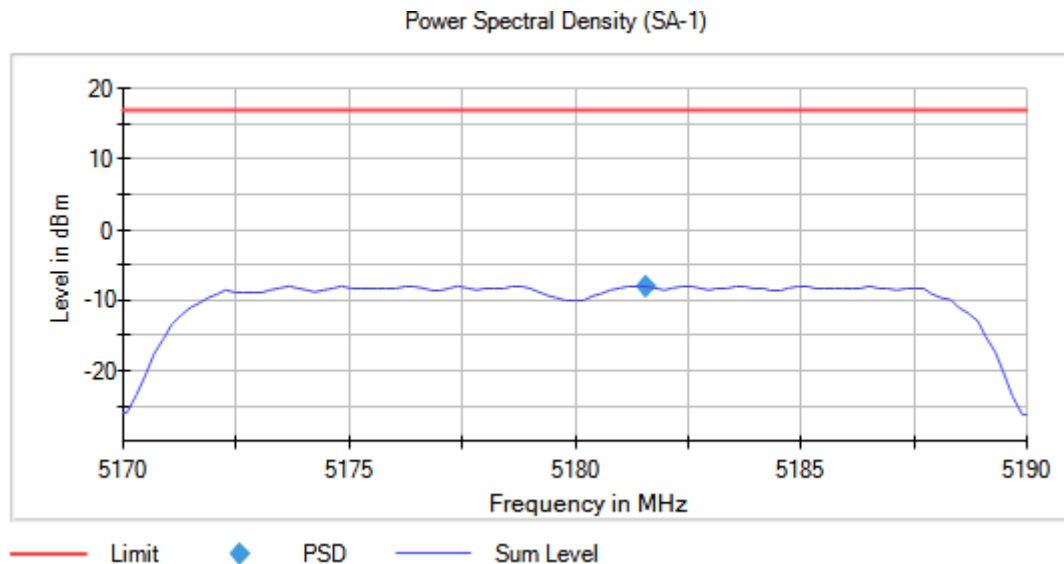
Operation Band MHz = [5150, 5250] Active Port = 1+2

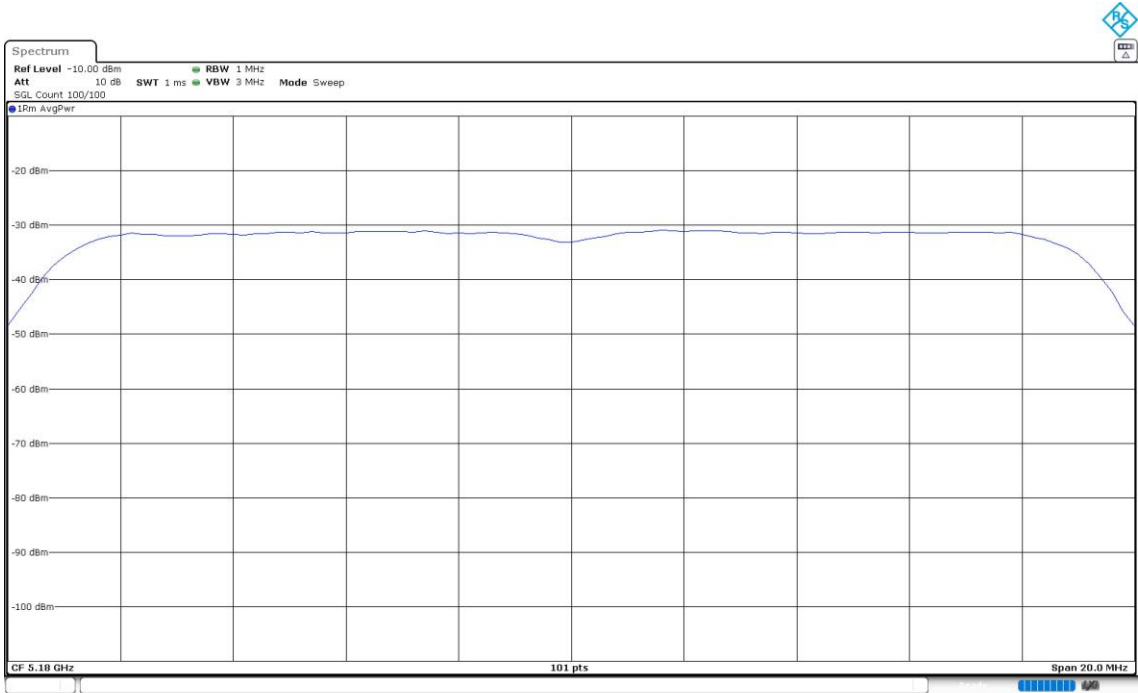
Frequency MHz = 5180.00000

Modulation = 802.11n HT20 (OFDM MCS0)

TPC = No

Images:





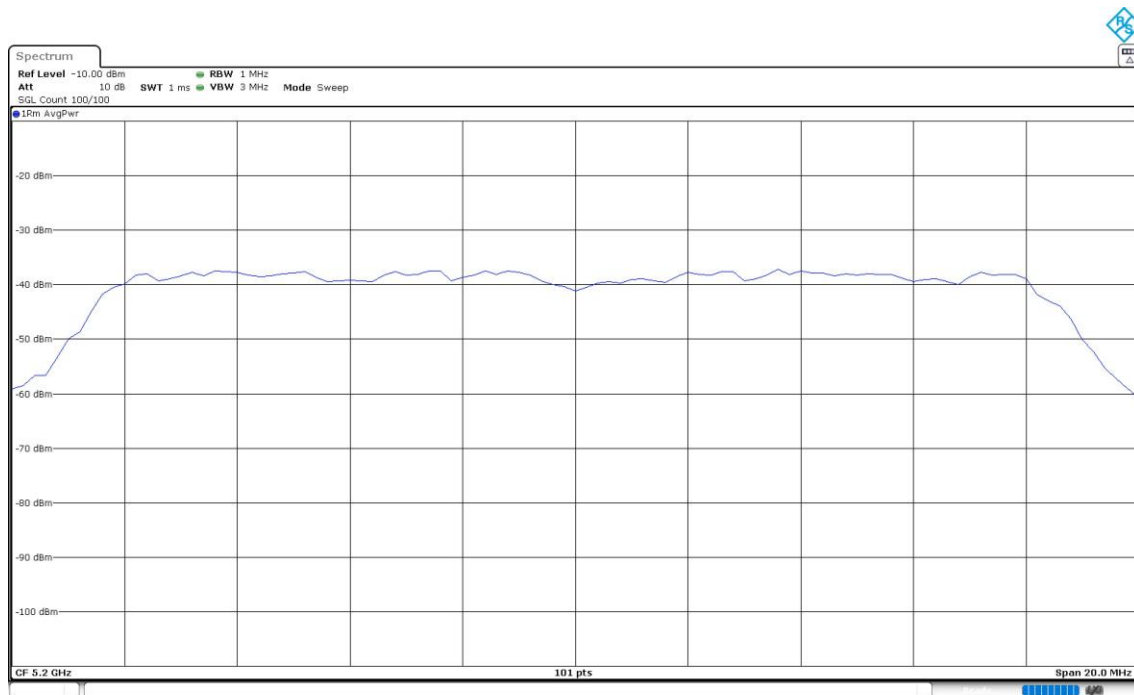
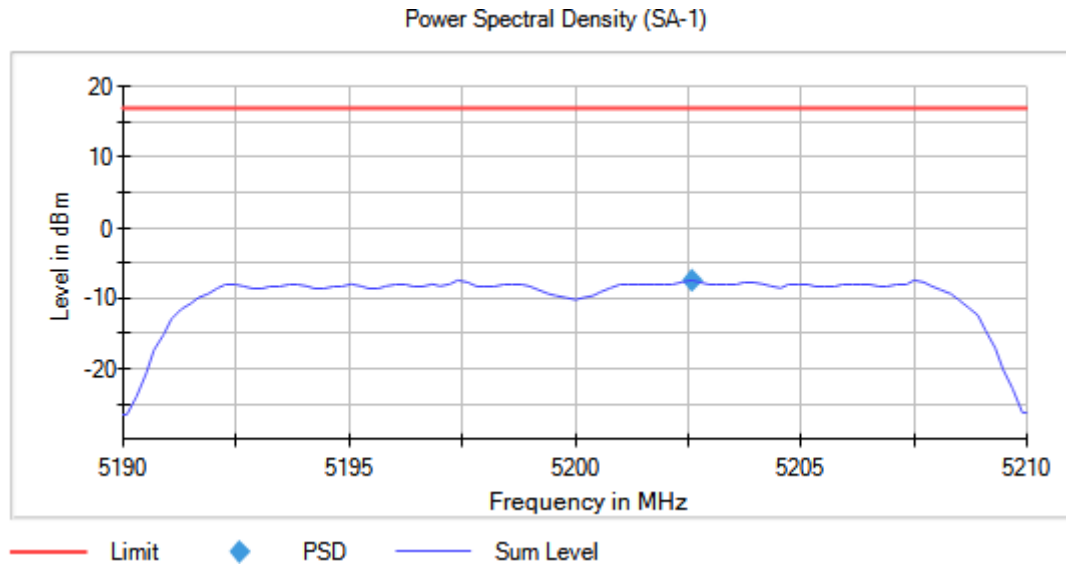
Operation Band MHz = [5150, 5250] Active Port = 1+2

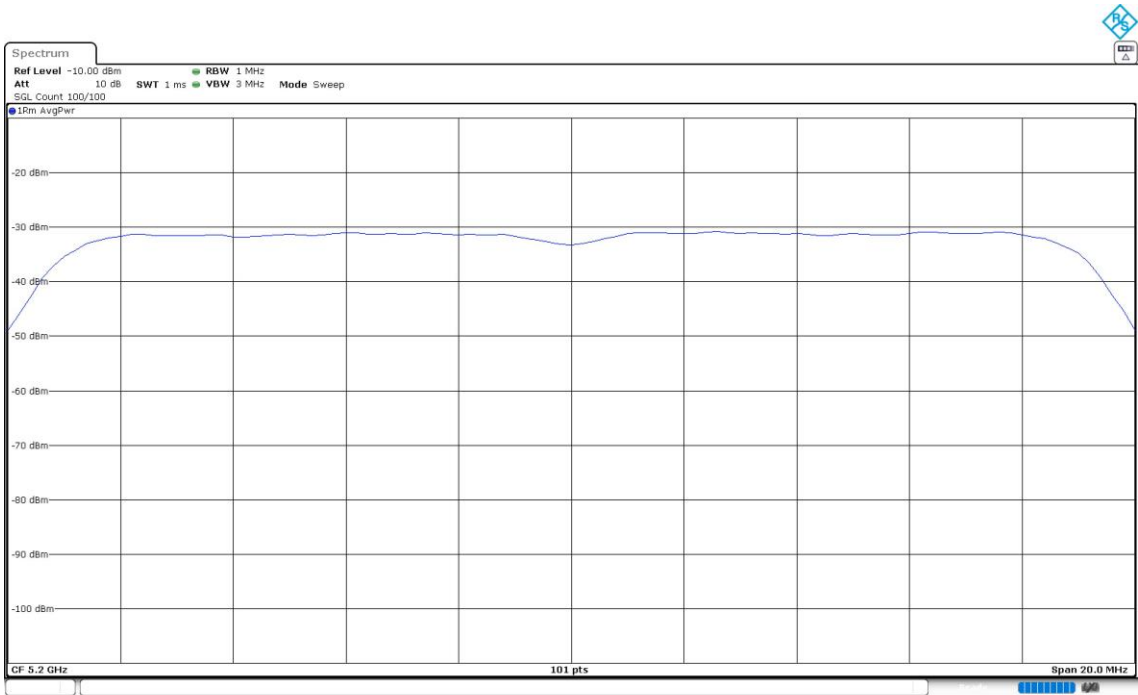
Frequency MHz = 5200.00000

Modulation = 802.11n HT20 (OFDM MCS0)

TPC = No

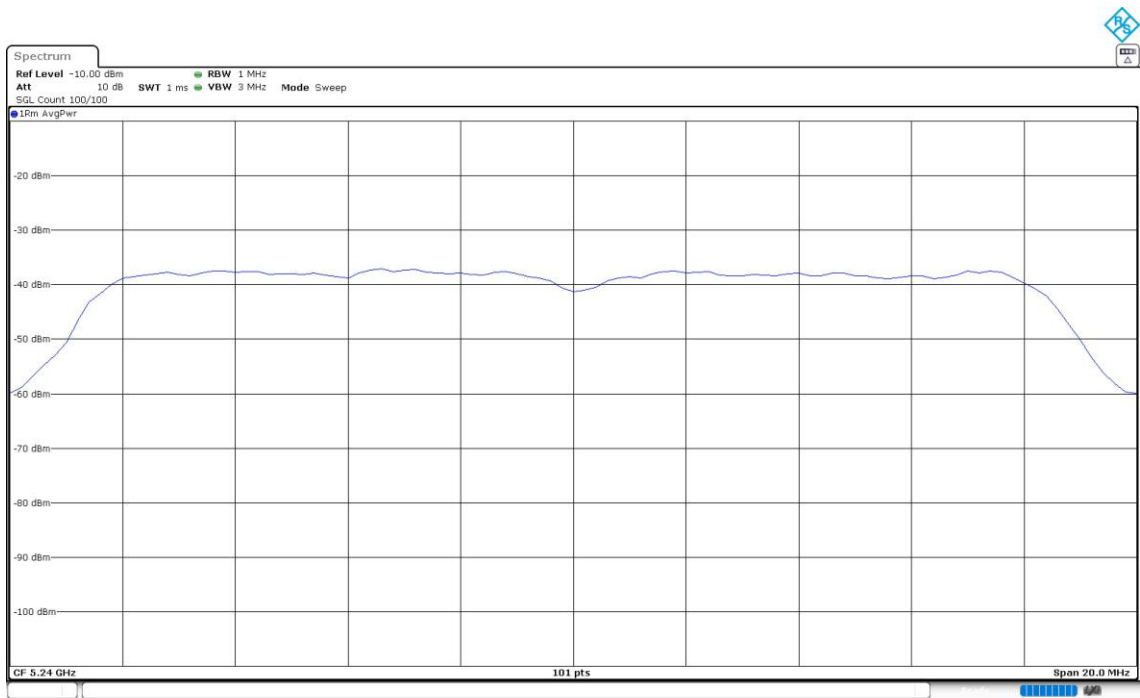
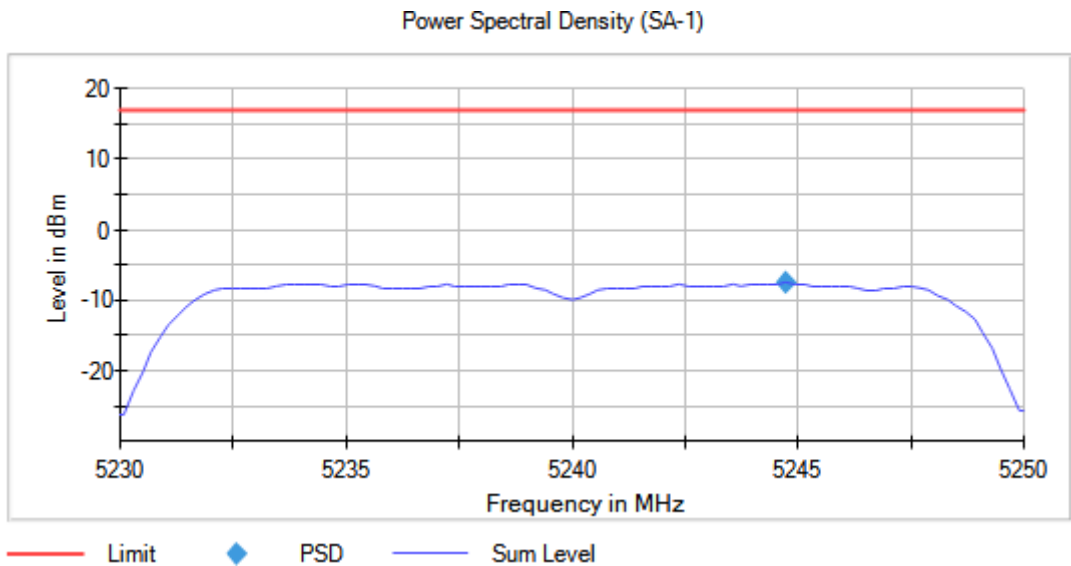
Images:

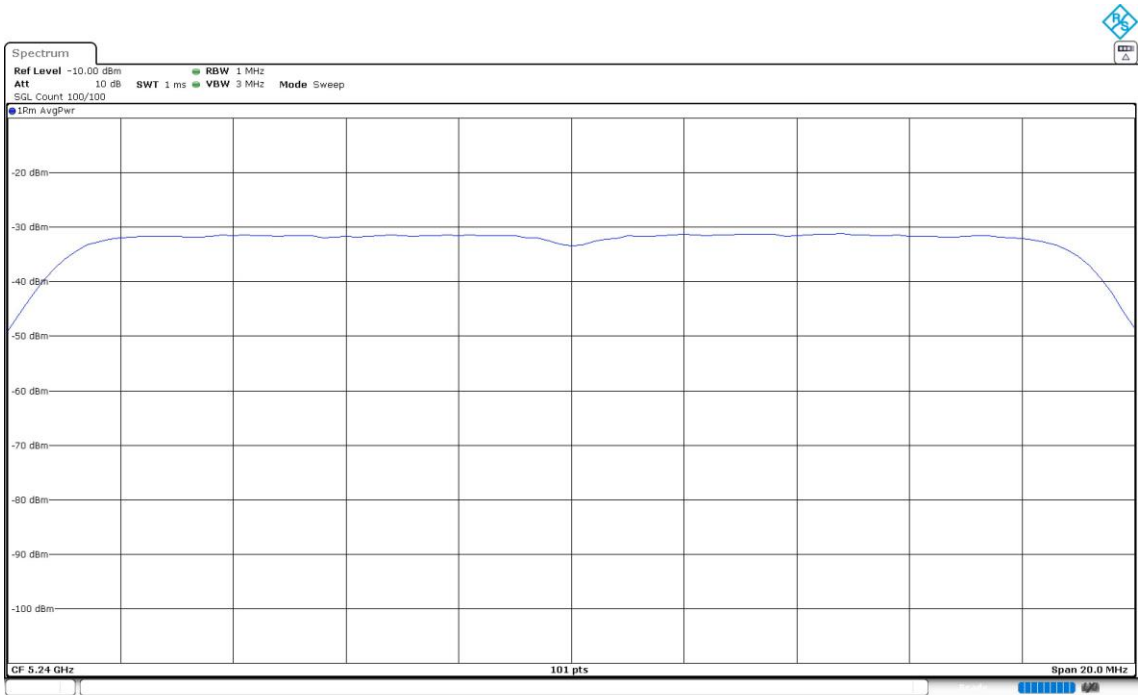




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5240.00000 Modulation = 802.11n HT20 (OFDM MCS0)
TPC = No

Images:





Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5150, 5250]	2	5190.00000	No	5186.039604	-4.82
		5230.00000		5224.059406	-4.92
	1+2	5190.00000		5184.851485	-8.87
		5230.00000		5222.475248	-8.41

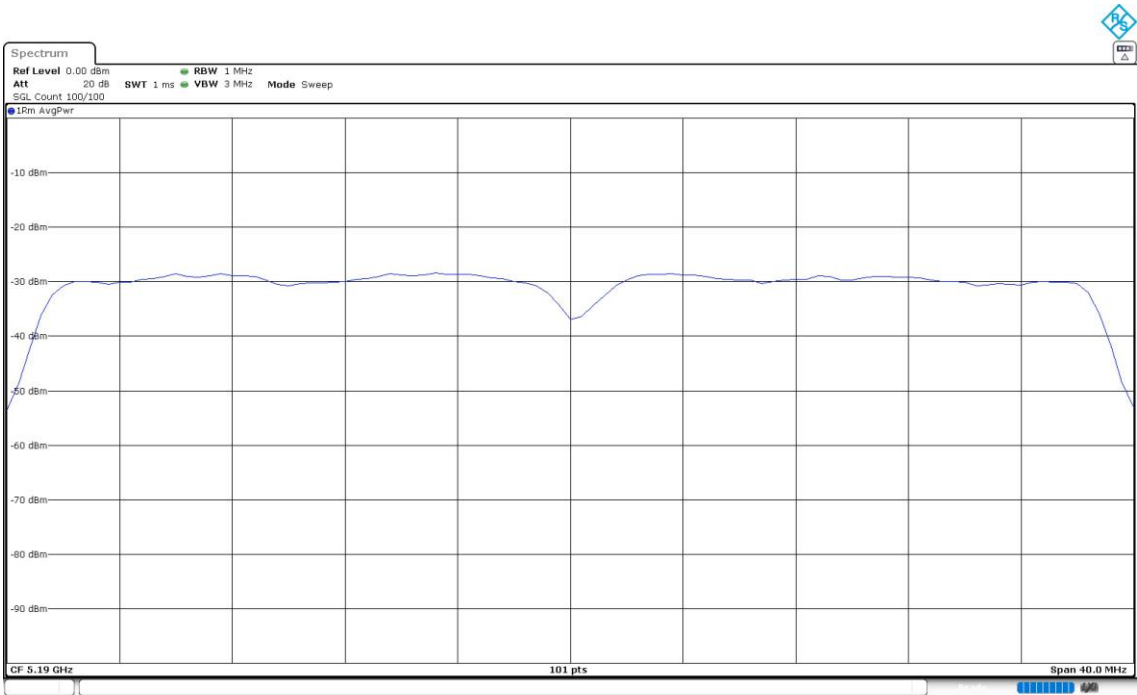
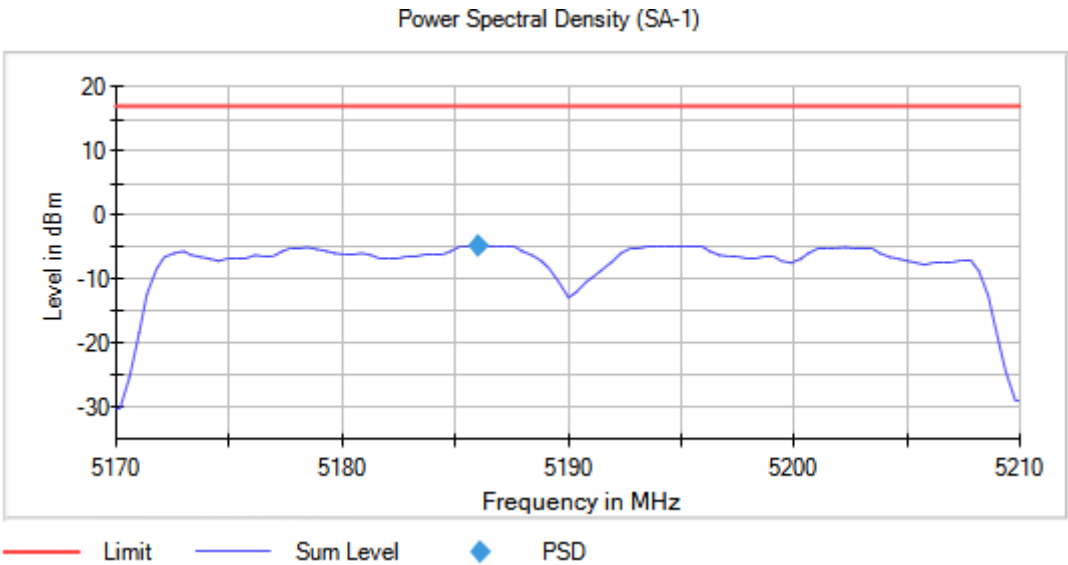
Verdict

Pass

Attachments

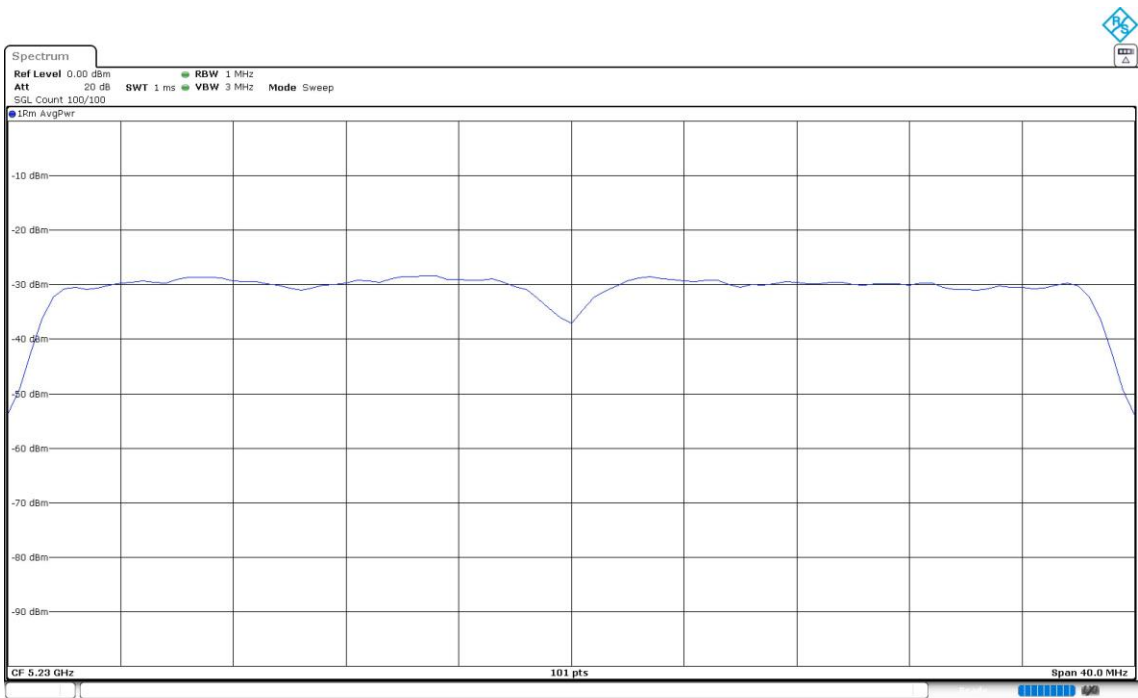
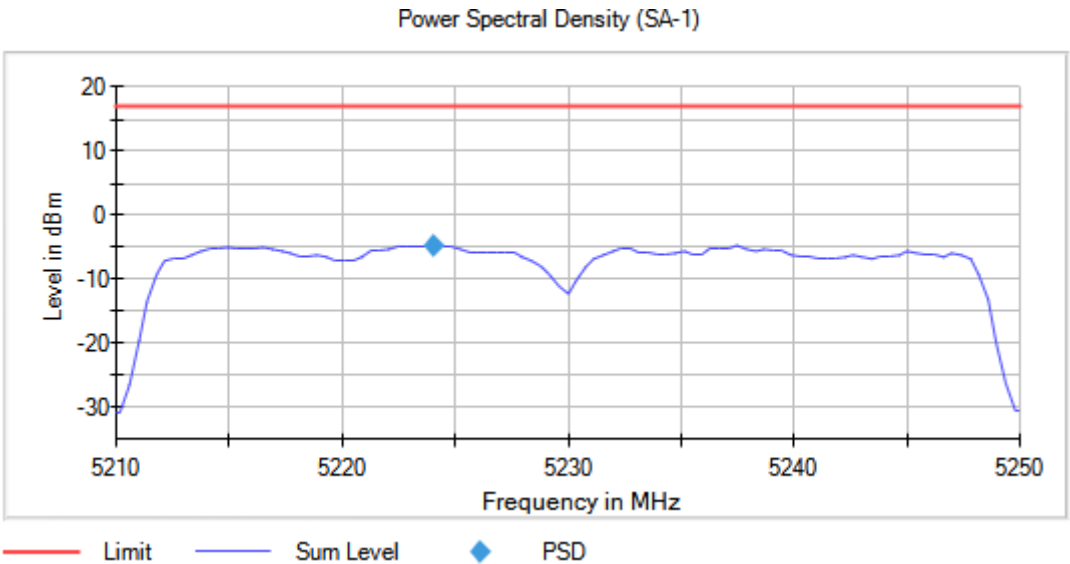
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5190.00000 Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)
TPC = No

Images:



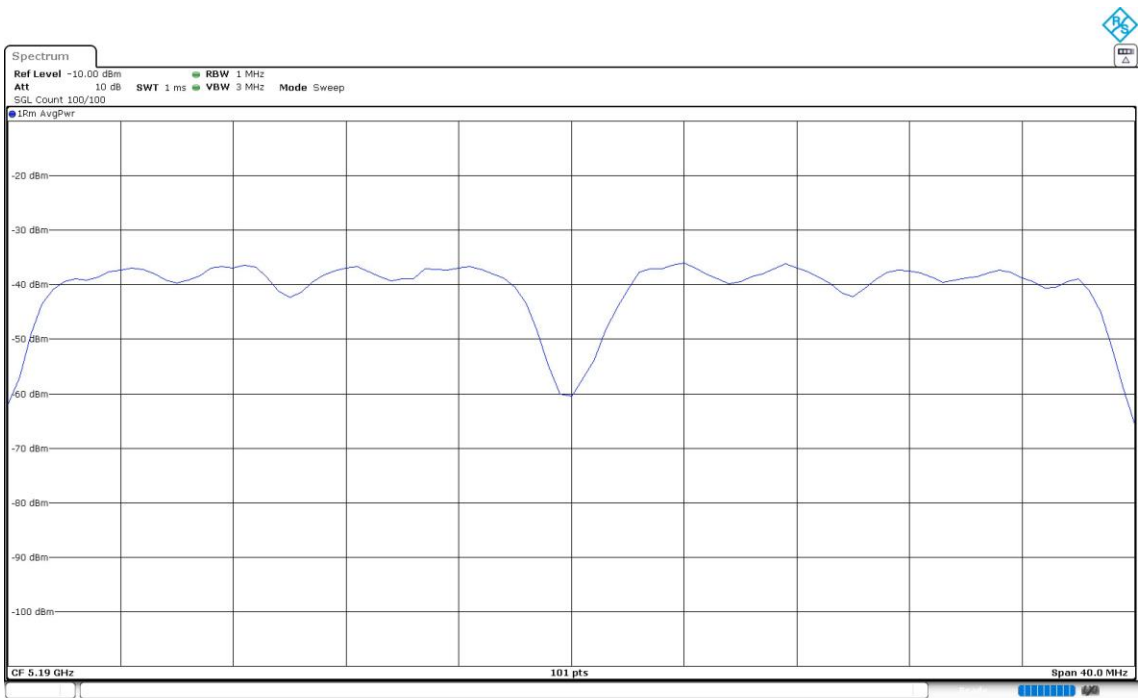
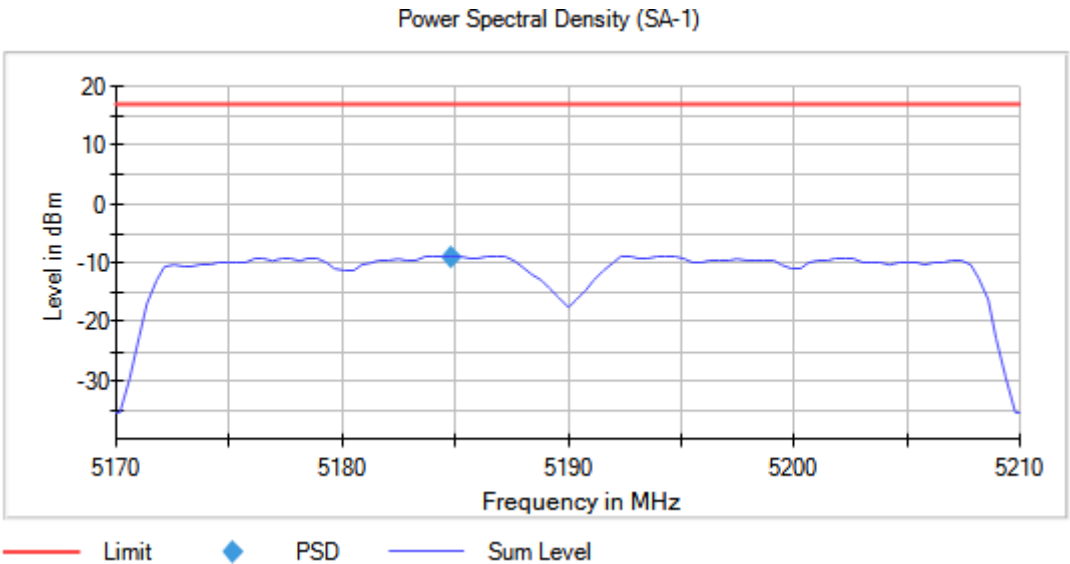
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5230.00000 Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)
TPC = No

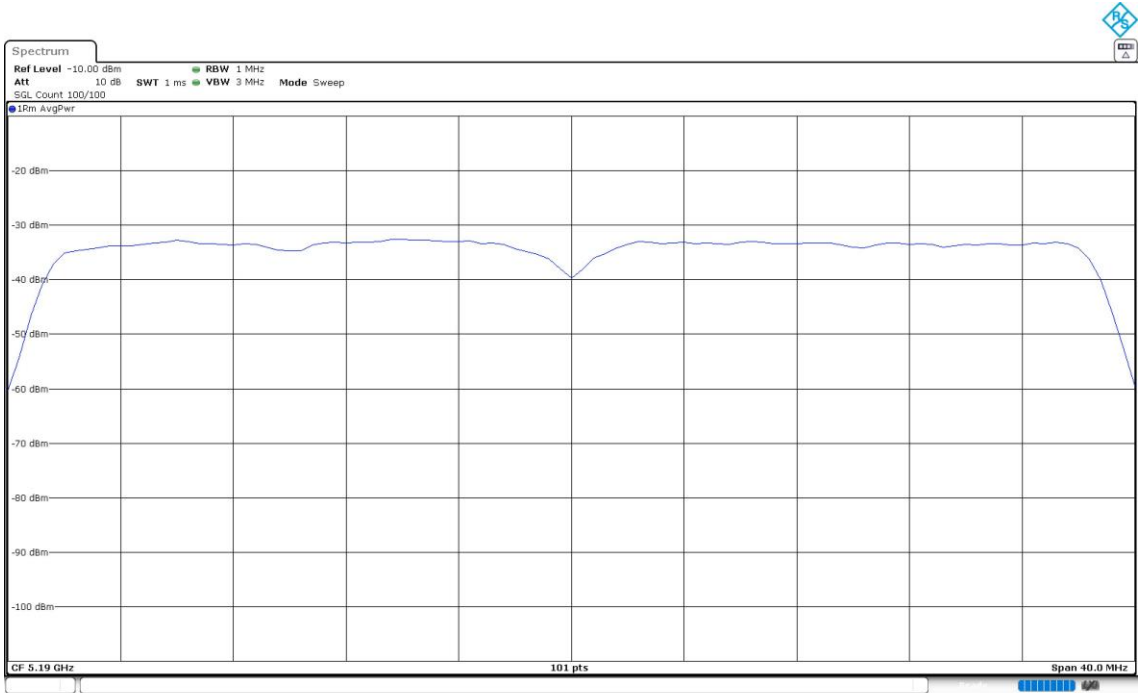
Images:



Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5190.00000 Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)
TPC = No

Images:





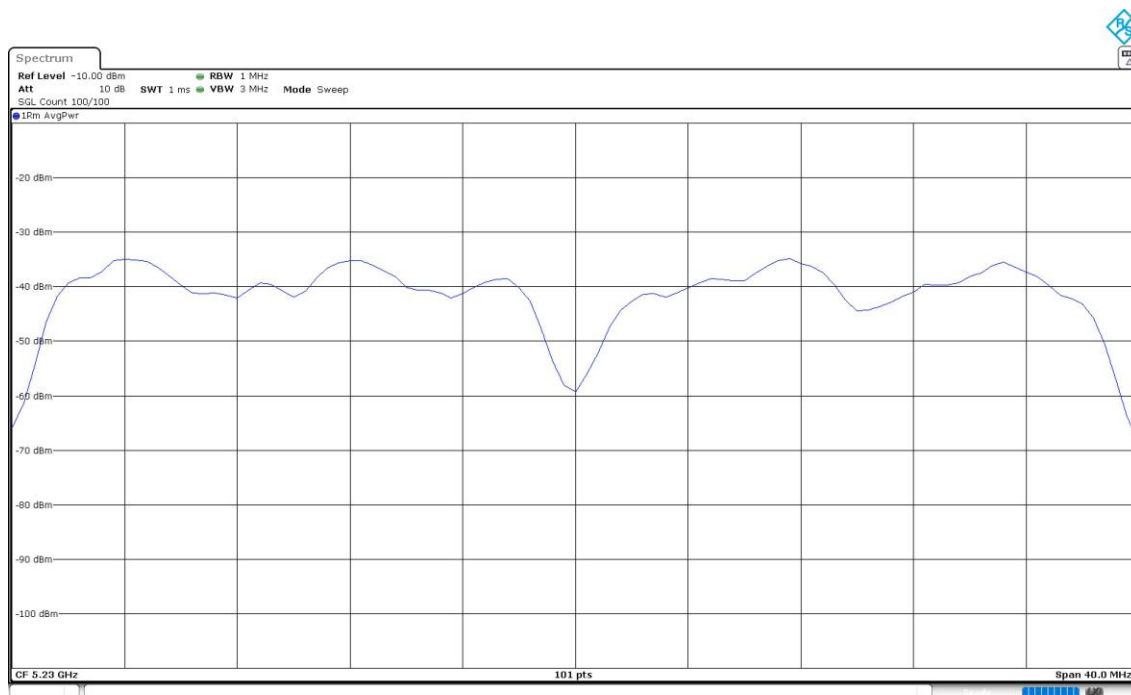
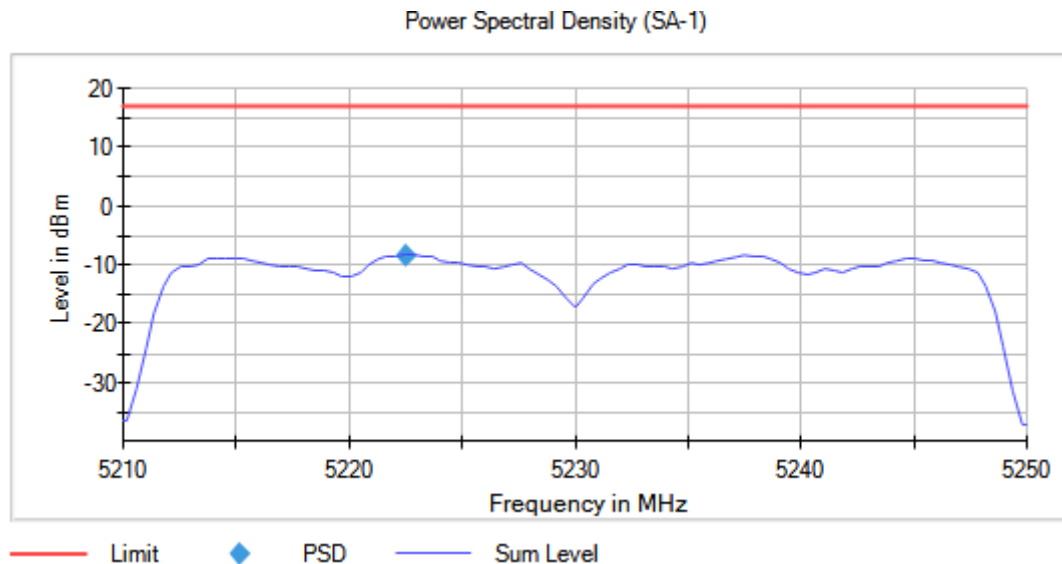
Operation Band MHz = [5150, 5250] Active Port = 1+2

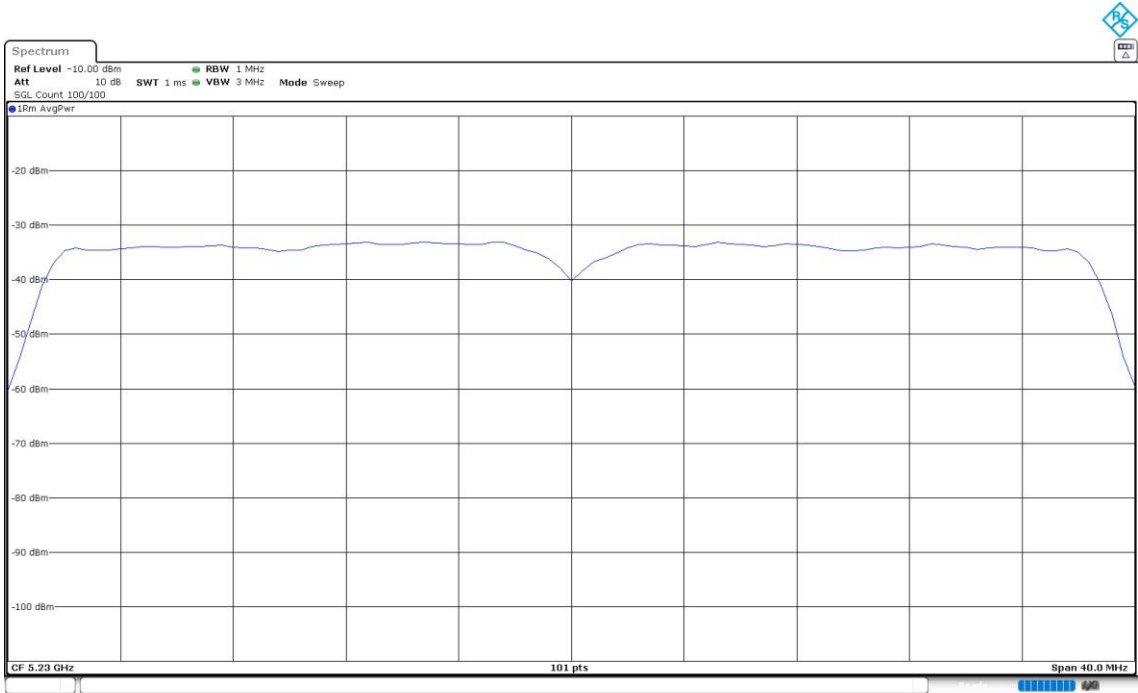
Frequency MHz = 5230.00000

Modulation = 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

TPC = No

Images:





Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5150, 5250]	2	5180.00000	No	5176.237624	-1.31
		5200.00000		5197.029703	-0.93
		5240.00000		5237.623762	-0.35

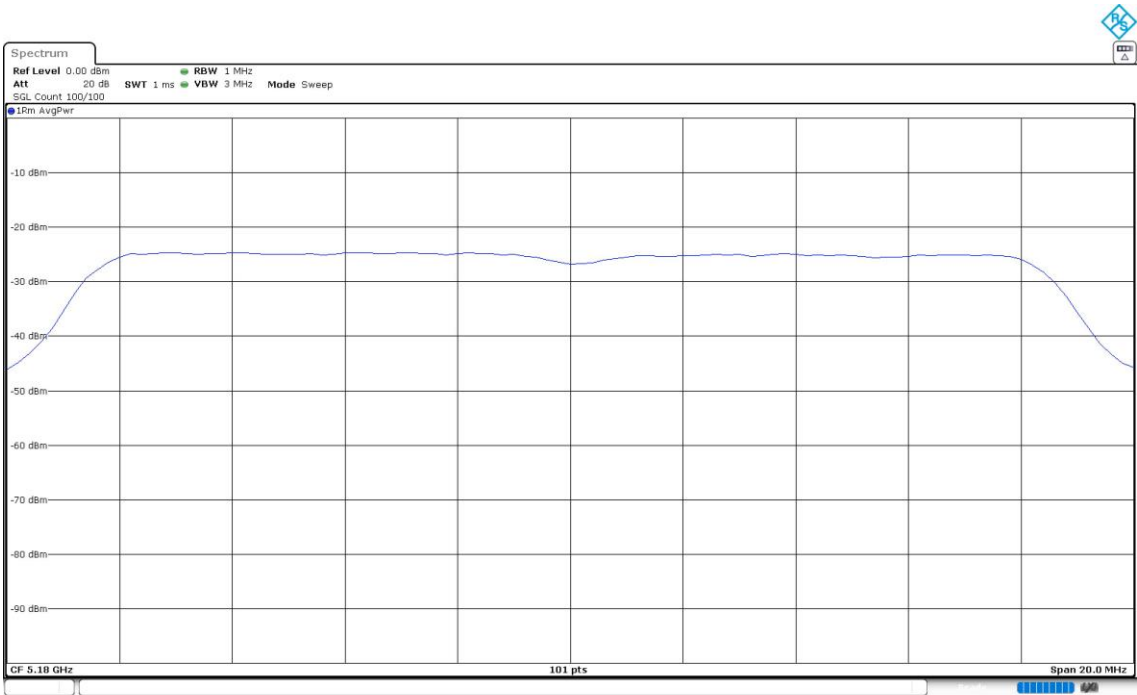
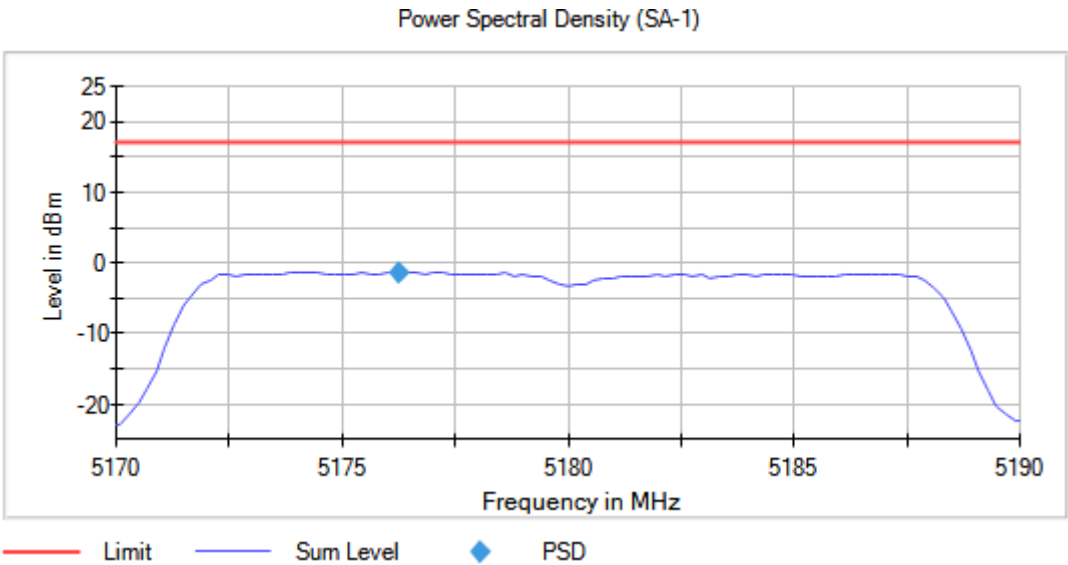
Verdict

Pass

Attachments

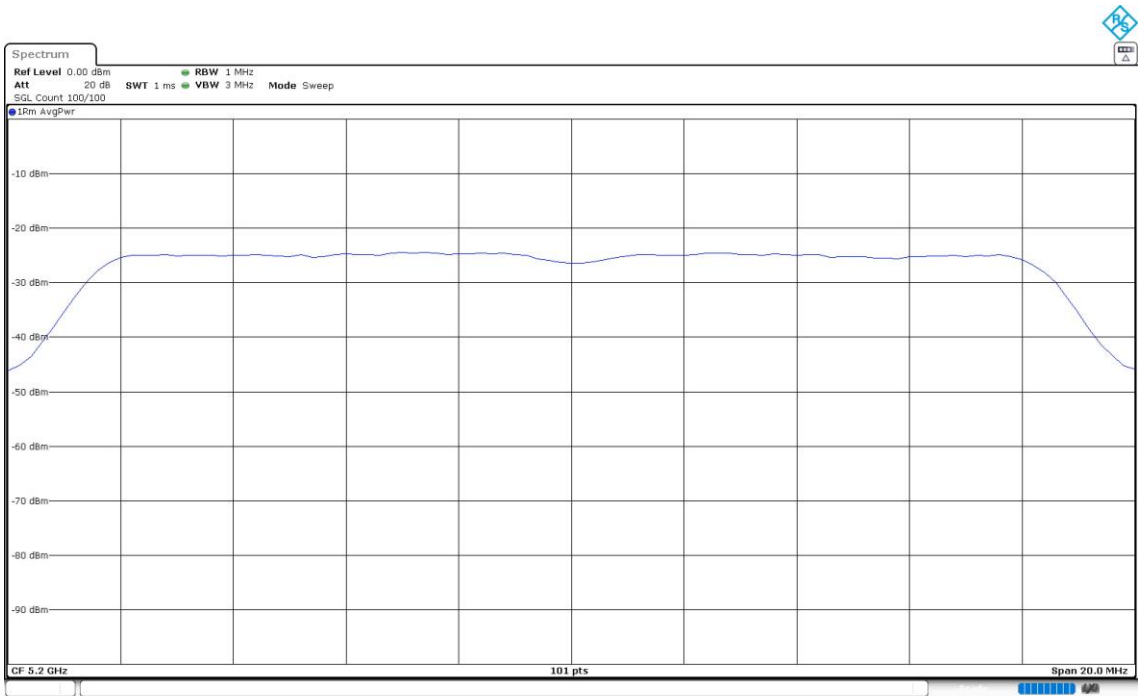
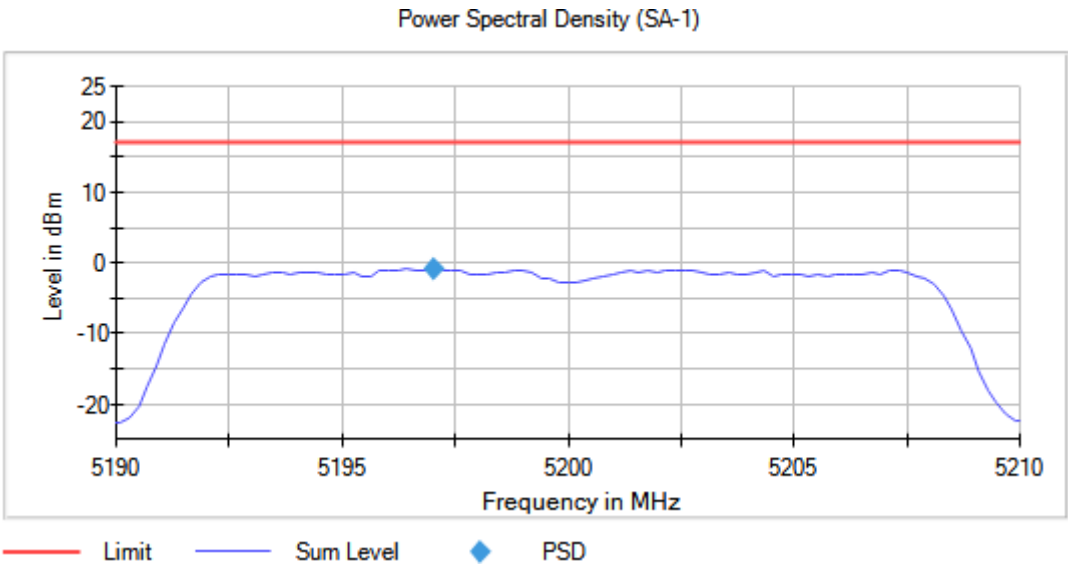
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5180.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No

Images:



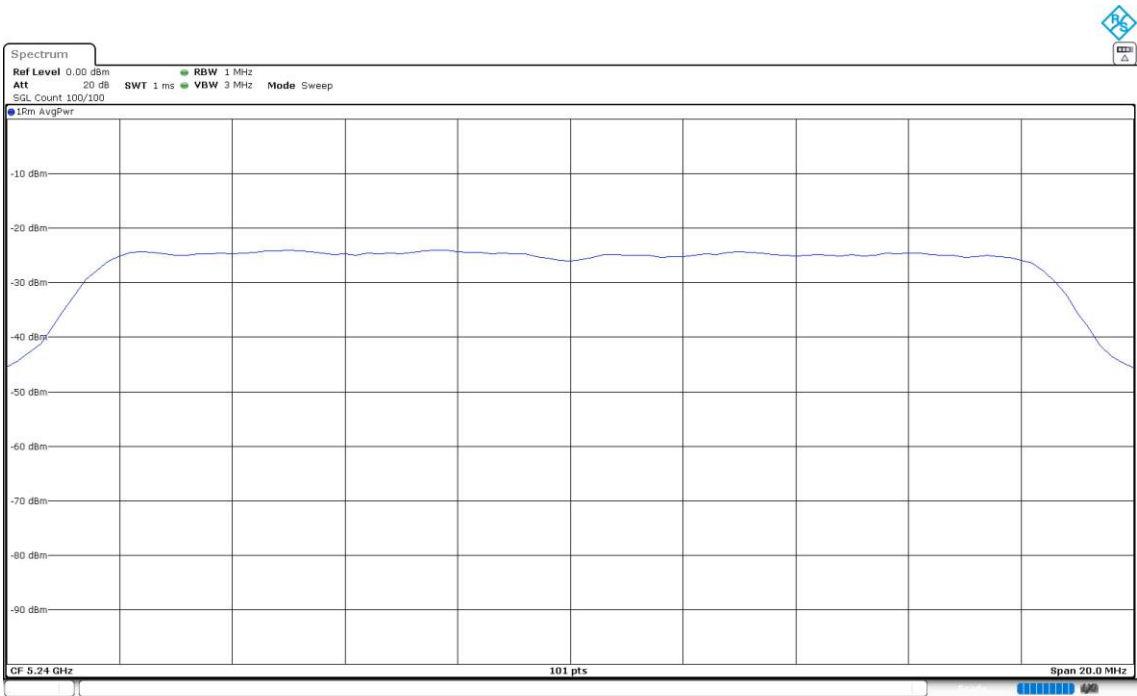
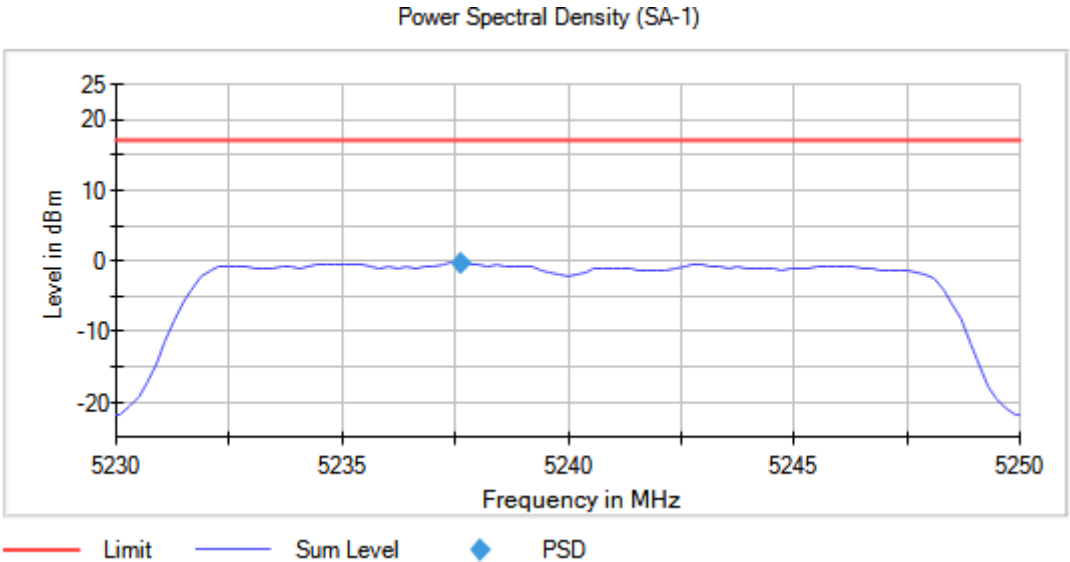
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5200.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No

Images:



Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5240.00000 Modulation = 802.11a (OFDM 6 Mbit/s)
TPC = No

Images:



Modulation: 802.11ac VHT20 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5150, 5250]	2	5180.00000	No	5177.425743	-3.62
		5200.00000		5202.574257	-3.40
		5240.00000		5237.425743	-2.92
	1+2	5180.00000		5177.623762	-8.56
		5200.00000		5203.762376	-8.35
		5240.00000		5243.762376	-7.96

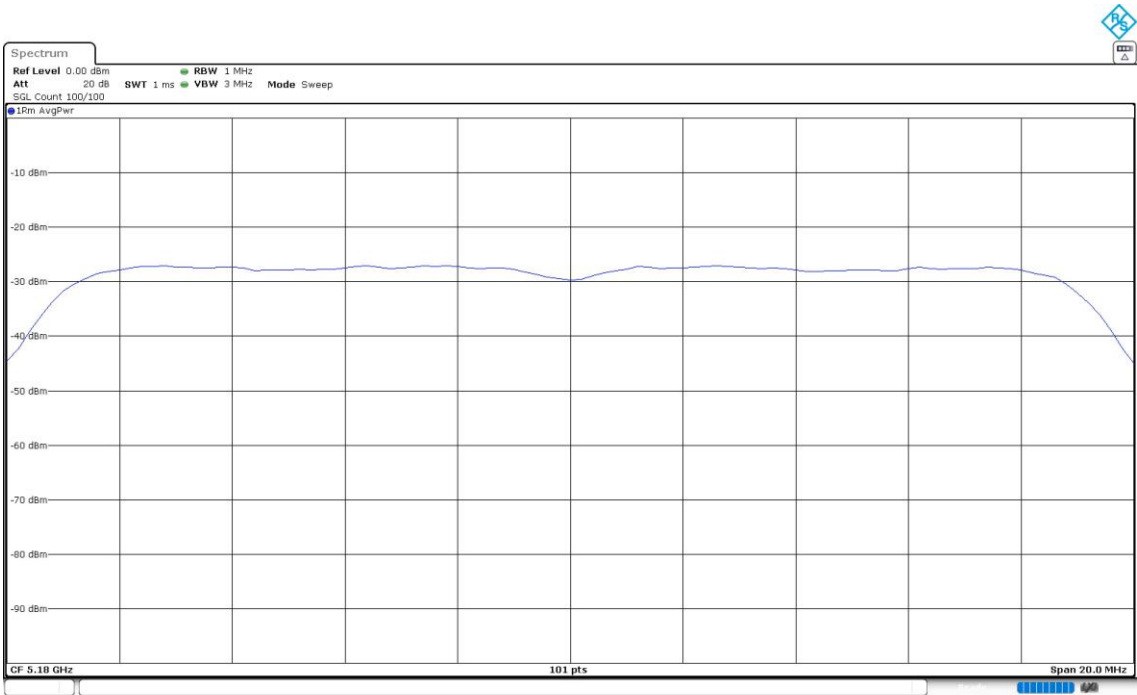
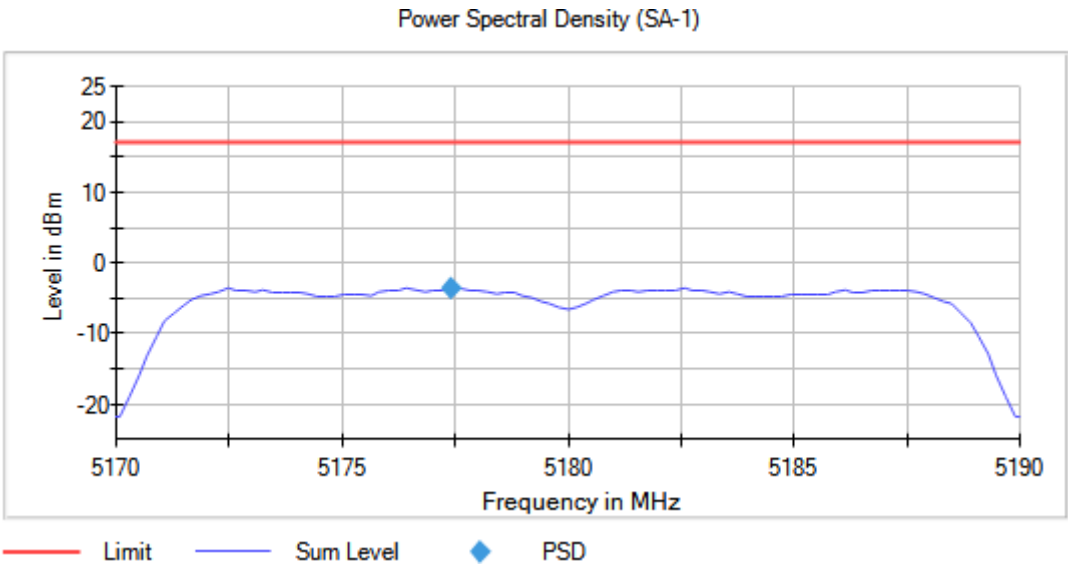
Verdict

Pass

Attachments

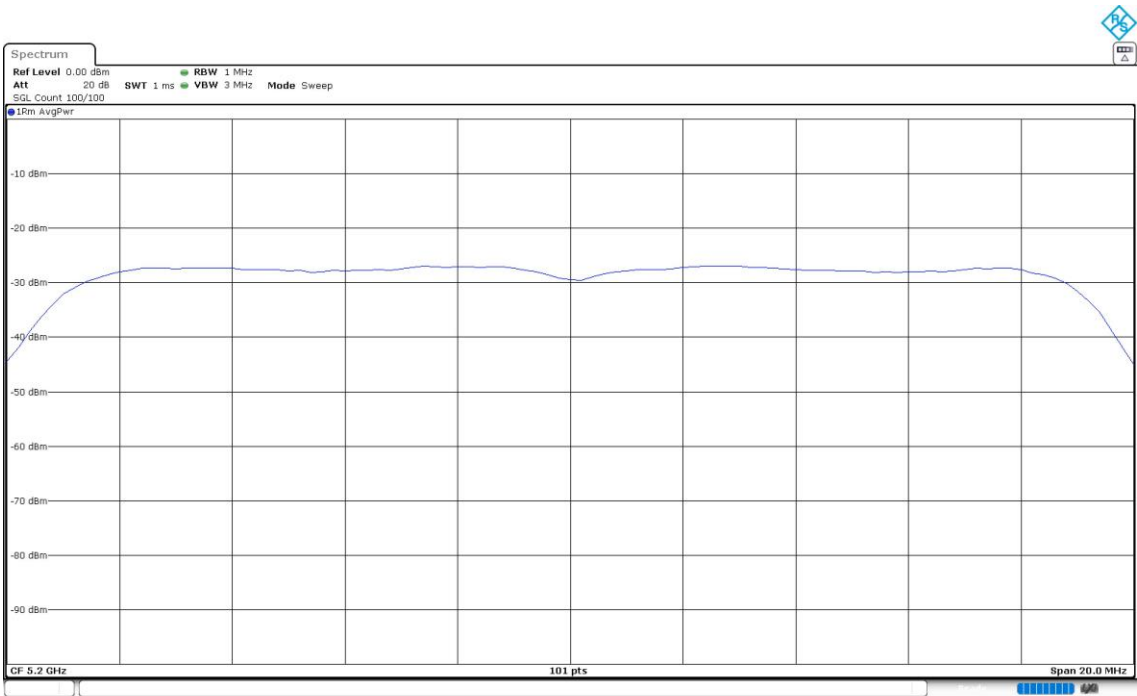
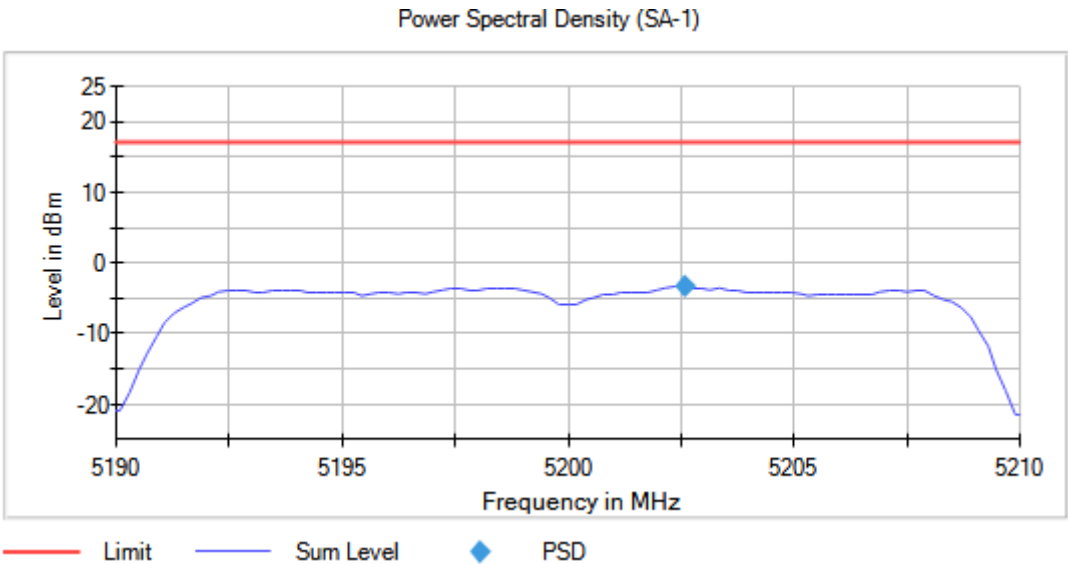
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5180.00000 Modulation = 802.11ac VHT20 (OFDM MCS0)
TPC = No

Images:



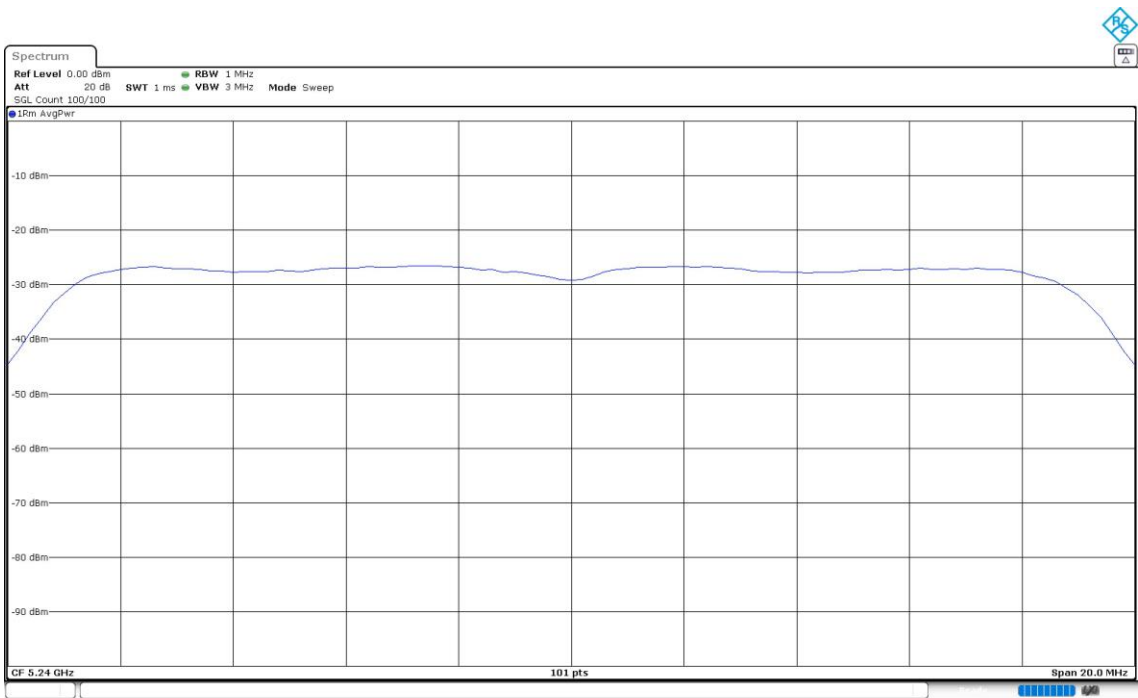
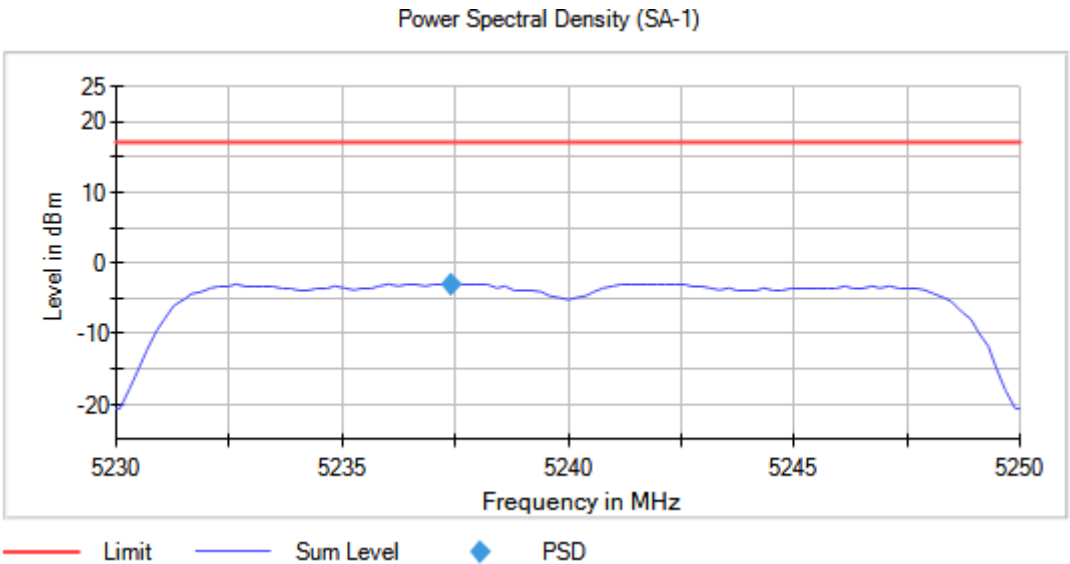
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5200.00000 Modulation = 802.11ac VHT20 (OFDM MCS0)
TPC = No

Images:



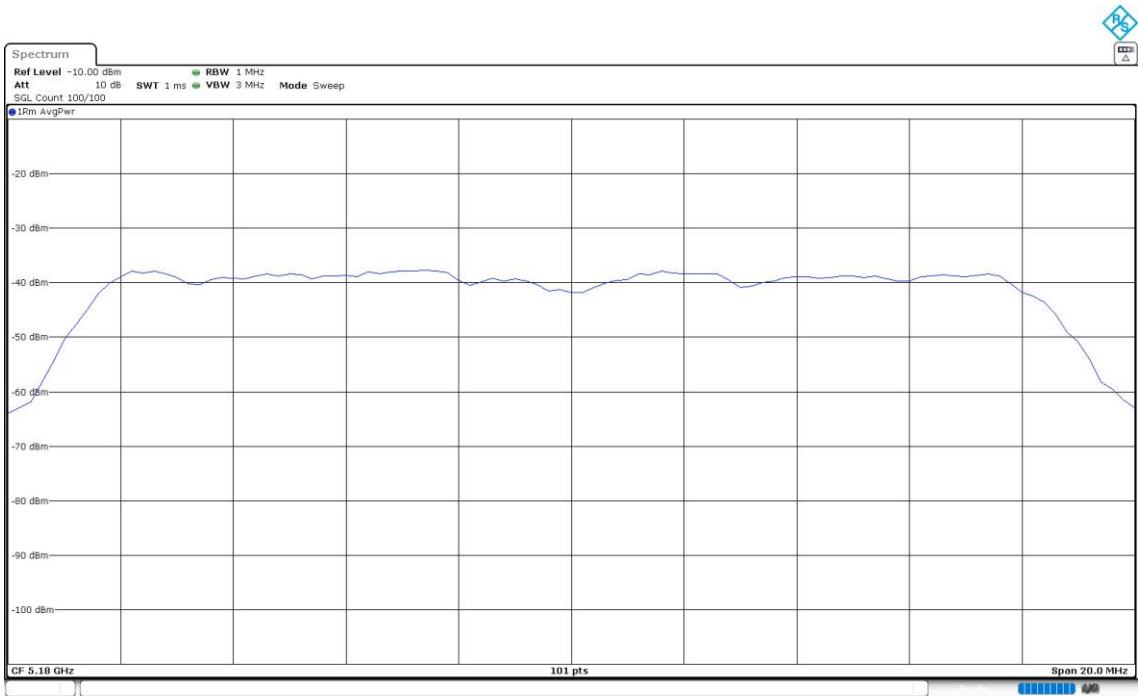
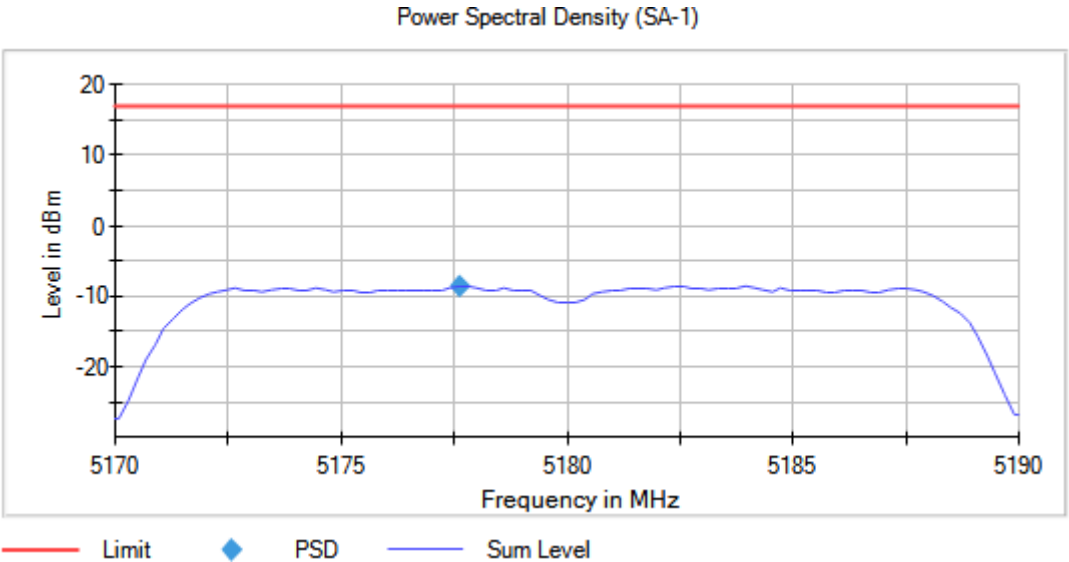
Operation Band MHz = [5150, 5250] Active Port = 2
Frequency MHz = 5240.00000 Modulation = 802.11ac VHT20 (OFDM MCS0)
TPC = No

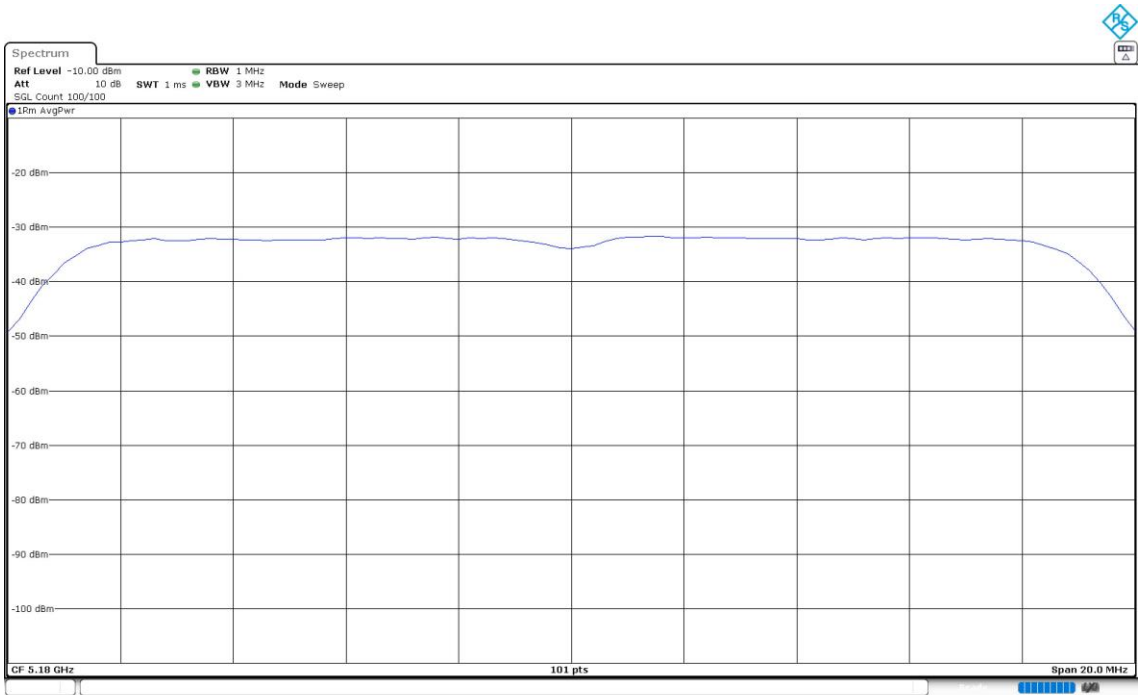
Images:



Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5180.00000 Modulation = 802.11ac VHT20 (OFDM MCS0)
TPC = No

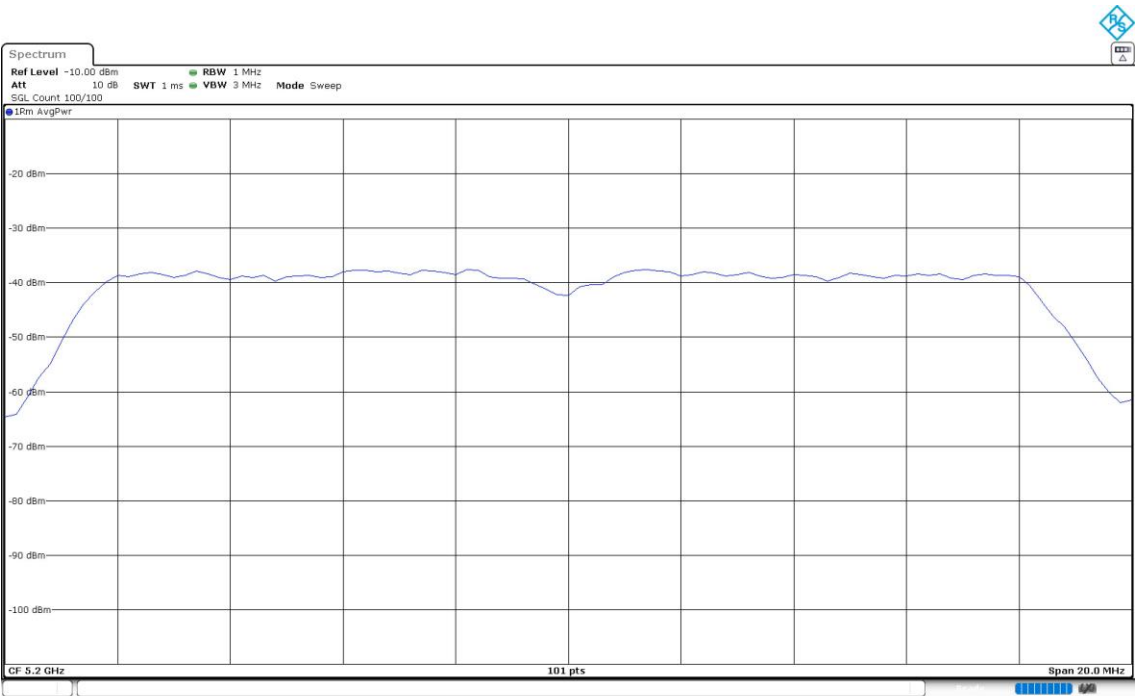
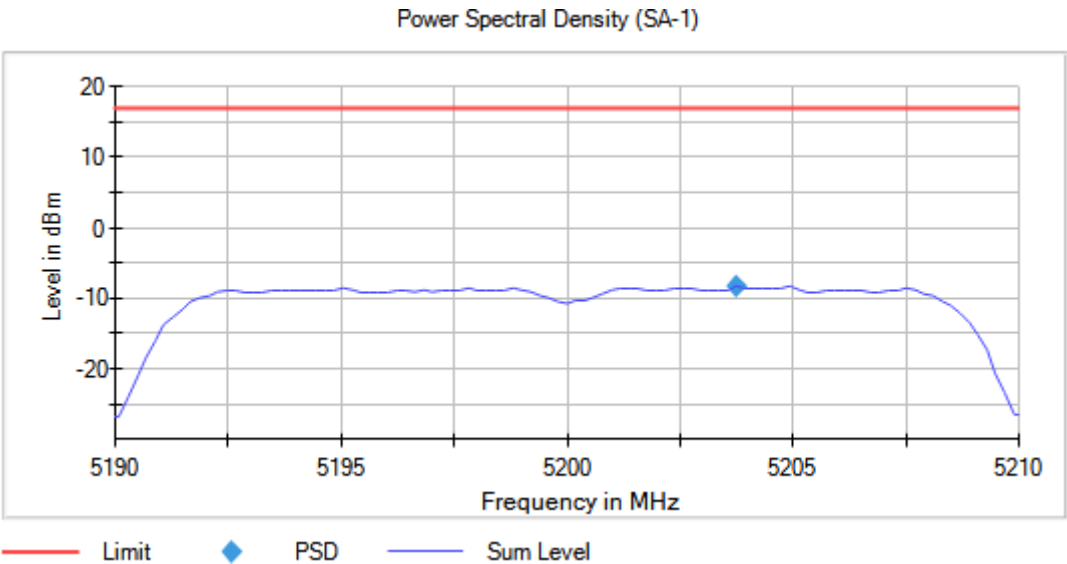
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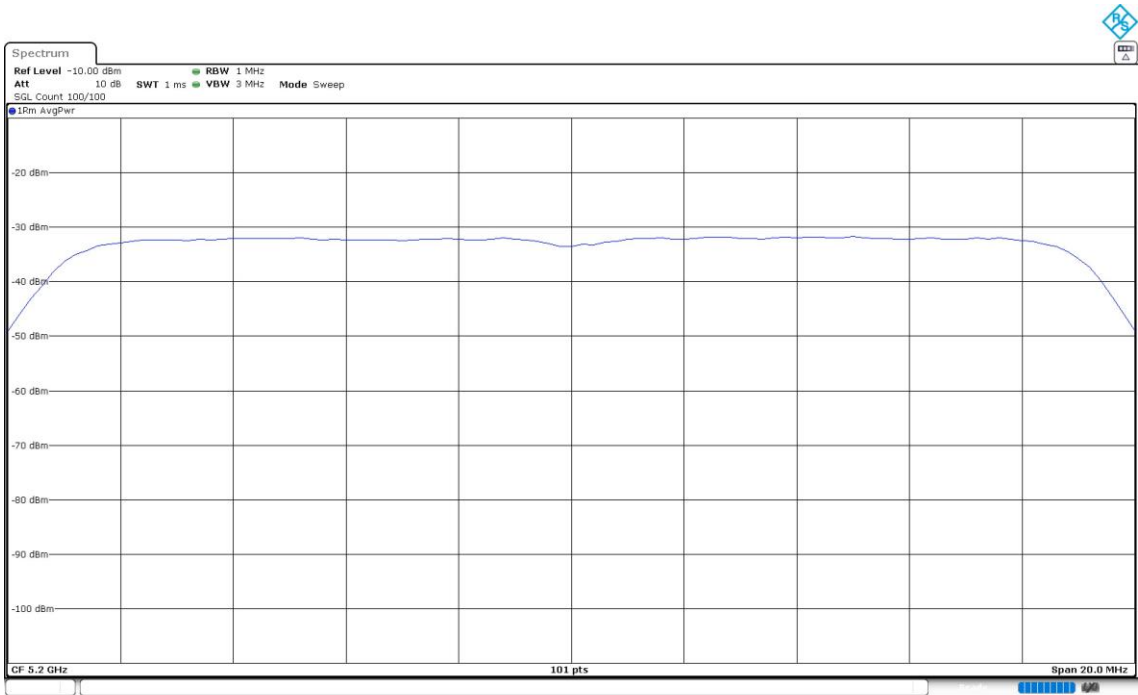




Operation Band MHz = [5150, 5250] Active Port = 1+2
Frequency MHz = 5200.00000 Modulation = 802.11ac VHT20 (OFDM MCS0)
TPC = No

Images:





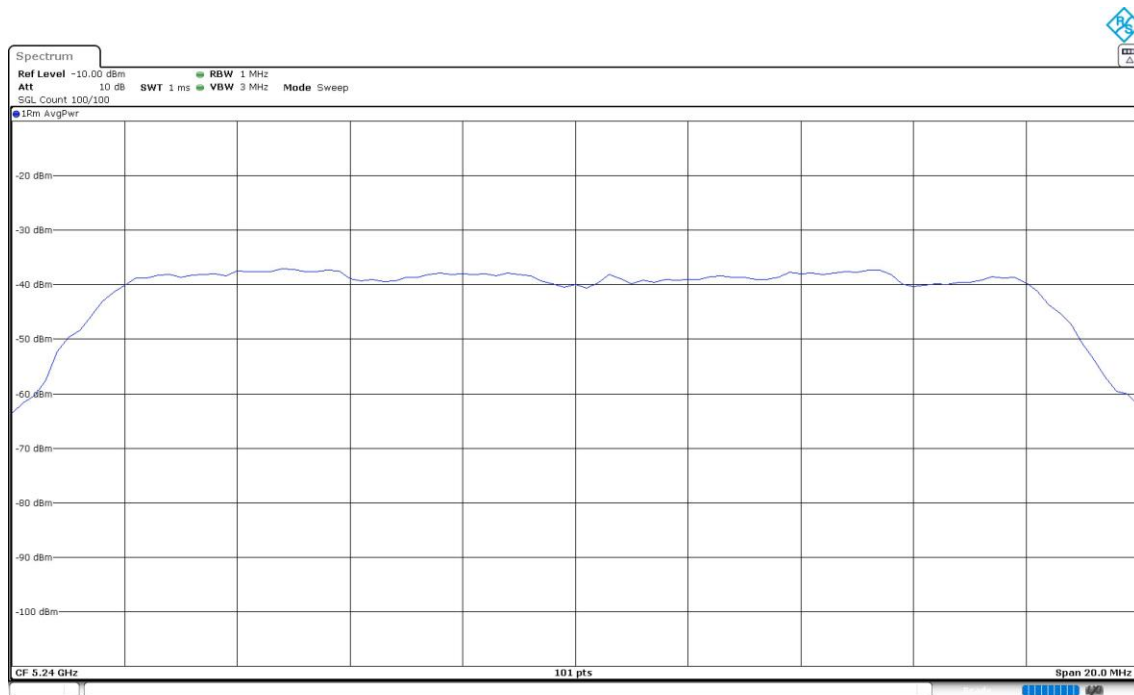
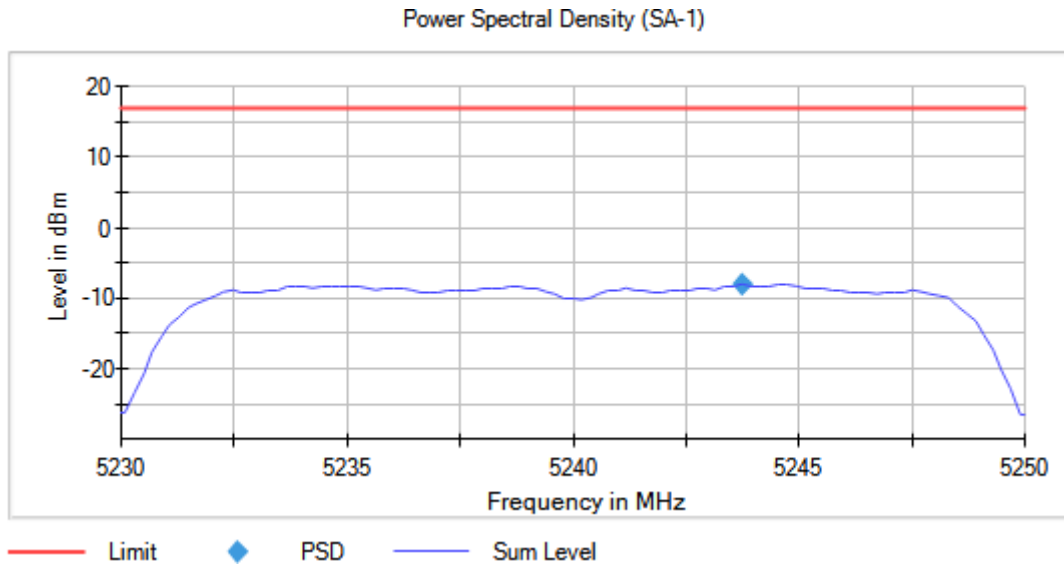
Operation Band MHz = [5150, 5250] Active Port = 1+2

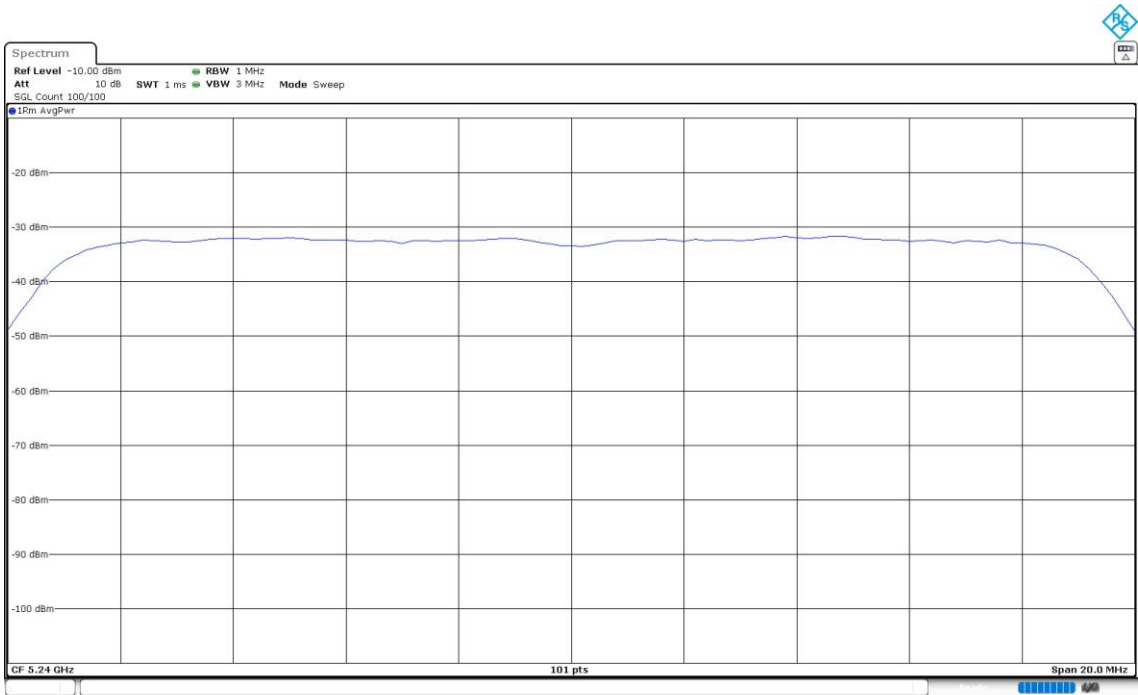
Frequency MHz = 5240.00000

Modulation = 802.11ac VHT20 (OFDM MCS0)

TPC = No

Images:





Modulation: 802.11ac VHT40 (OFDM MCS0)

Results

Operation Band (MHz)	Port	Freq (MHz)	TPC	Freq (MHz)	PSD (dBm)
[5150, 5250]	2	5190.00000	No	5184.851485	-10.16
		5230.00000		5225.247525	-9.63
	1+2	5190.00000		5184.851485	-13.20
		5230.00000		5225.247525	-12.89

Verdict

Pass