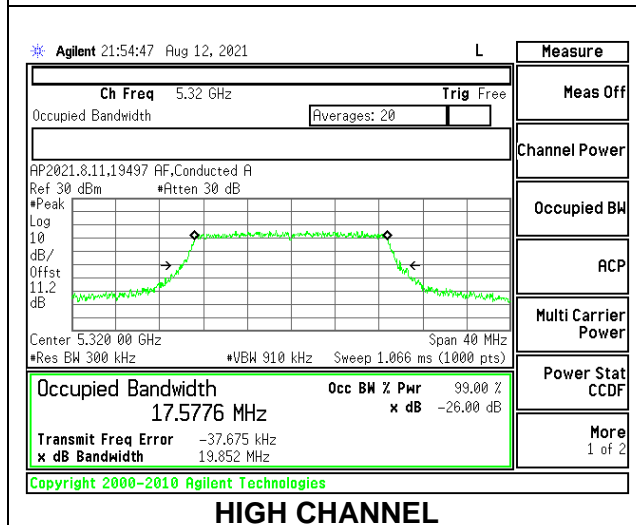
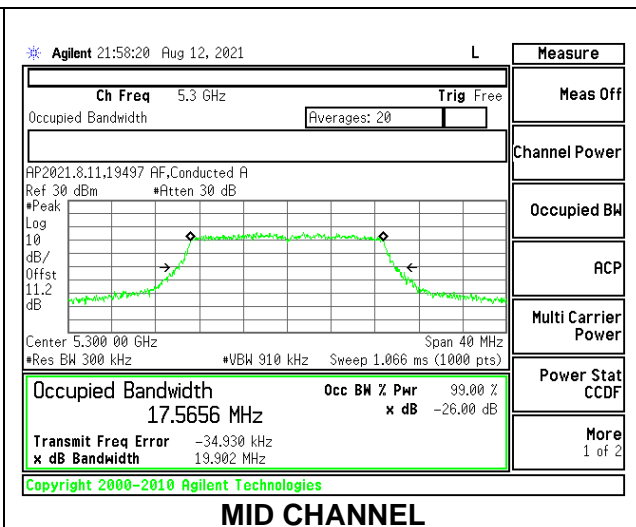
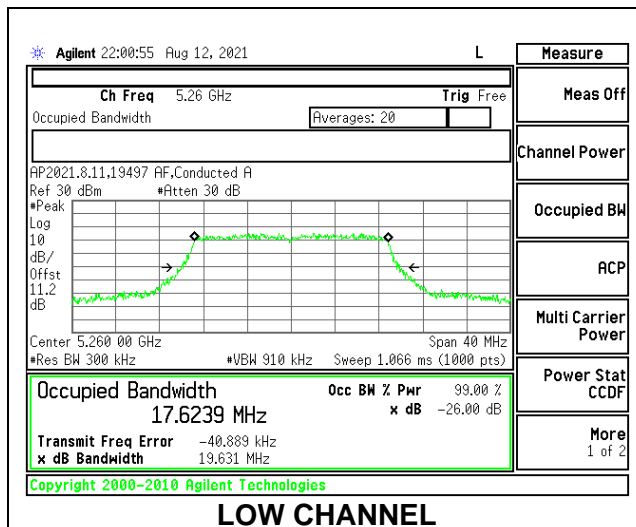


9.3.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

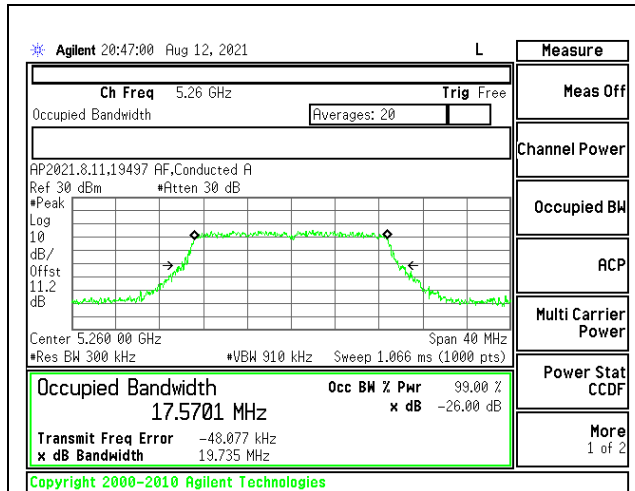
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5260	17.624
Mid	5300	17.566
High	5320	17.578



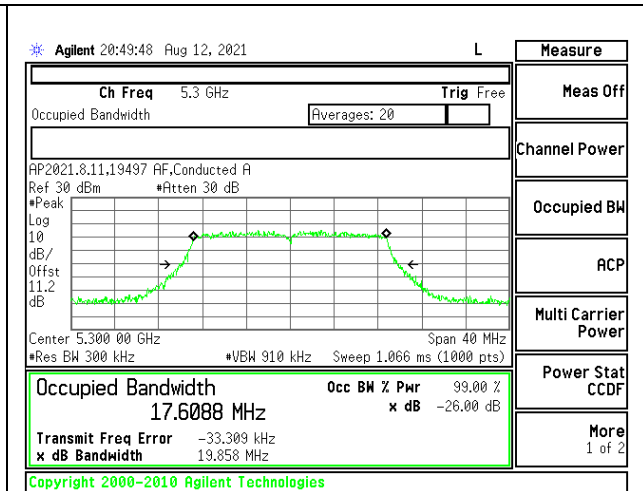
Intentionally left blank

1TX Antenna 2 MODE

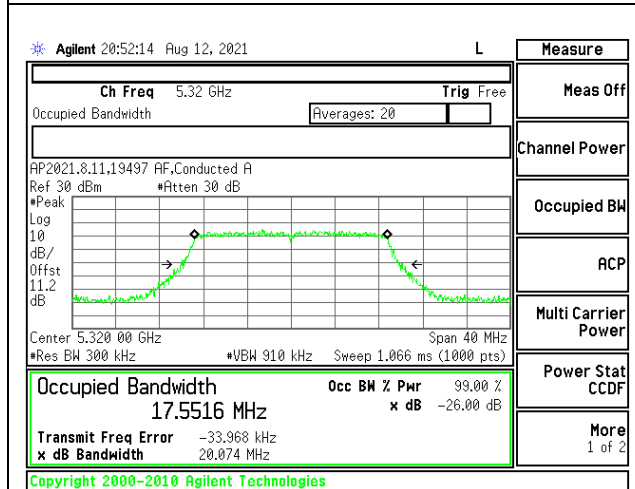
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5260	17.570
Mid	5300	17.609
High	5320	17.552



LOW CHANNEL



MID CHANNEL



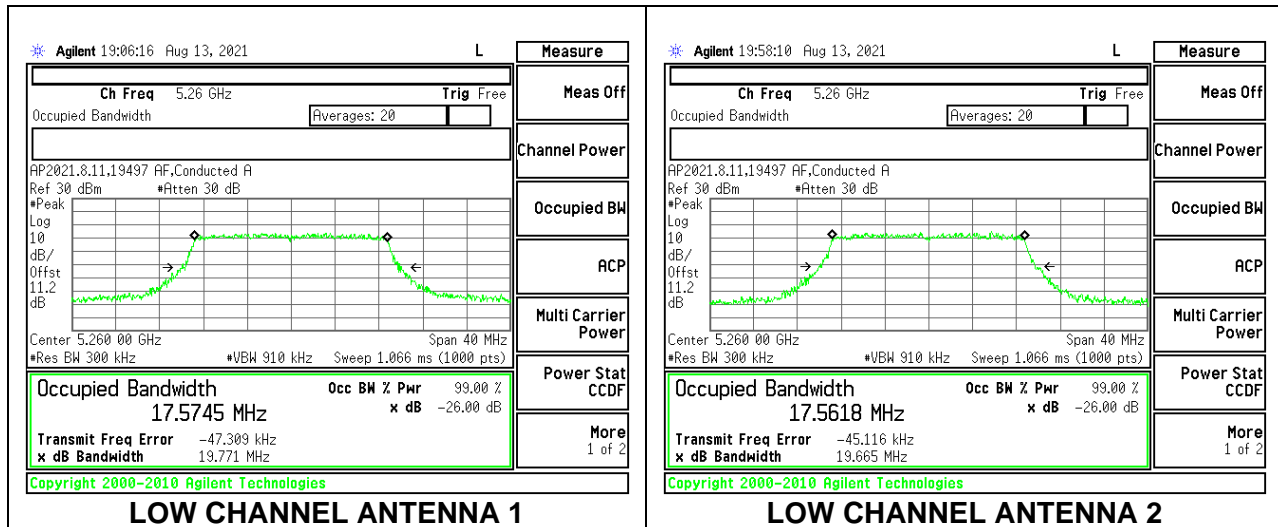
HIGH CHANNEL

Intentionally left blank

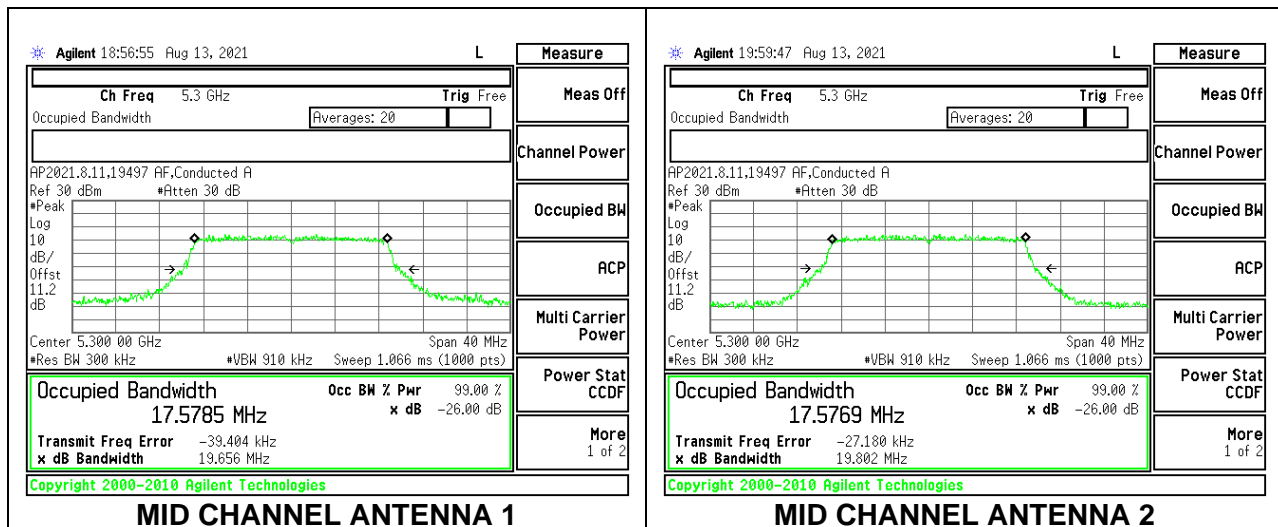
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5260	17.575	17.562
Mid	5300	17.579	17.577
High	5320	17.579	17.565

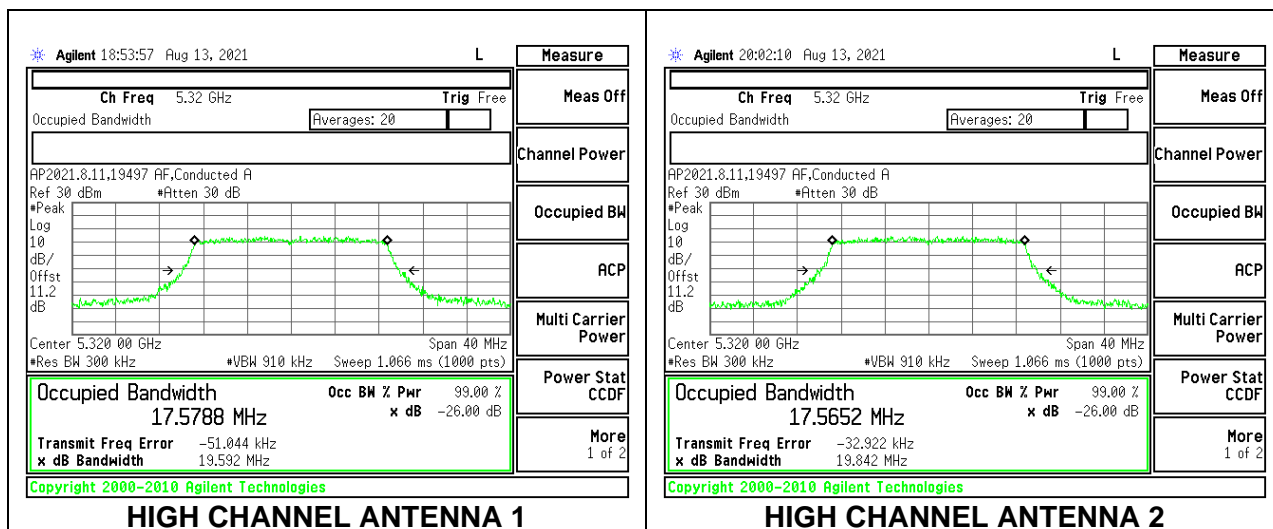
LOW CHANNEL



MID CHANNEL



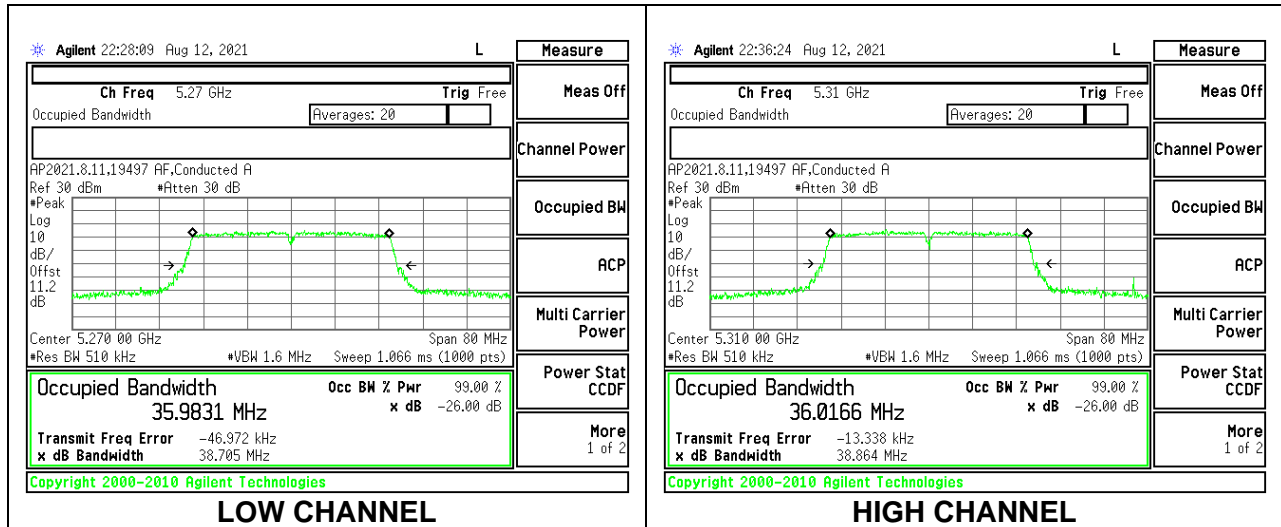
HIGH CHANNEL



9.3.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

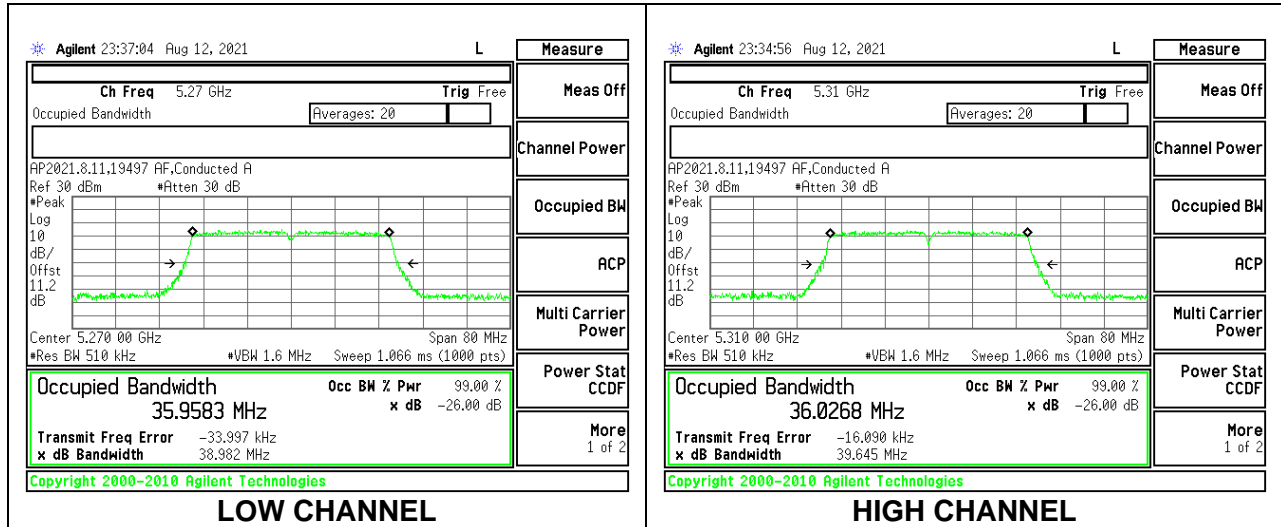
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5270	35.983
High	5310	36.017



1TX Antenna 2 MODE

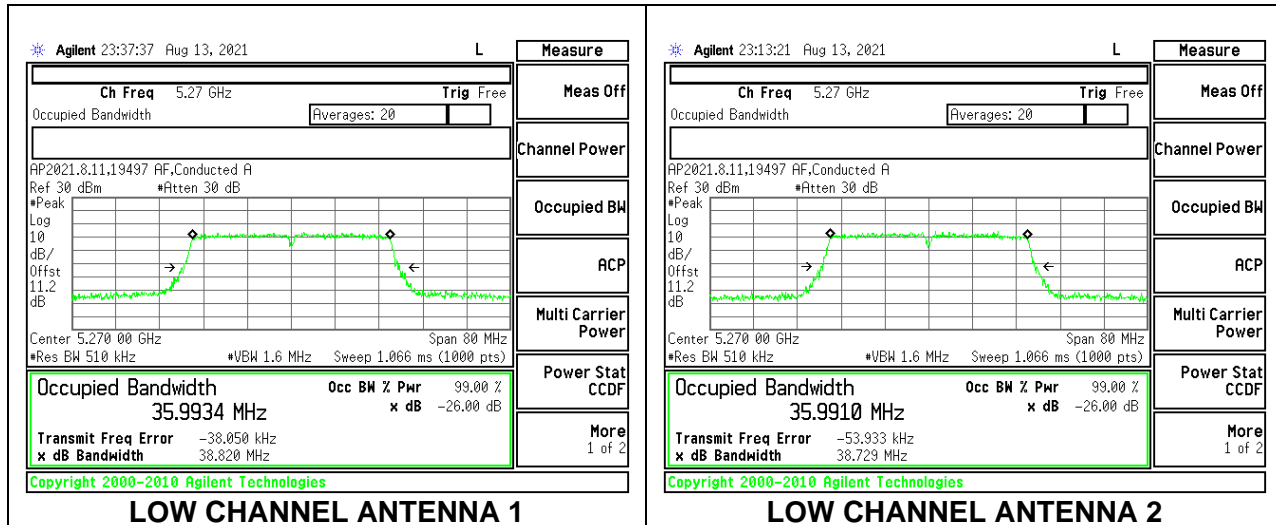
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5270	35.958
High	5310	36.027



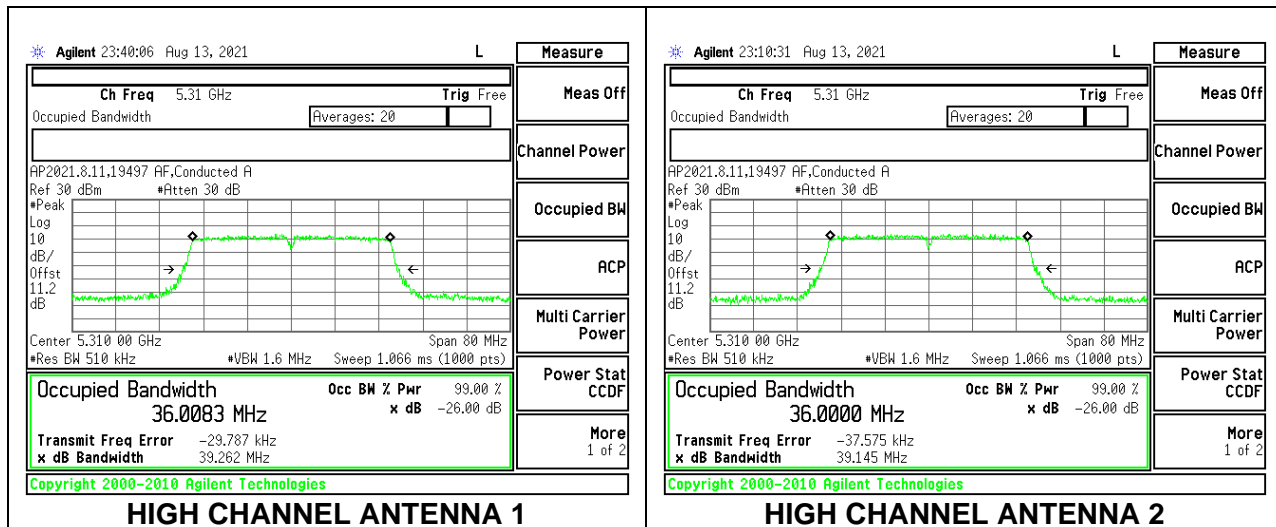
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5270	35.993	35.991
High	5310	36.008	36.000

LOW CHANNEL



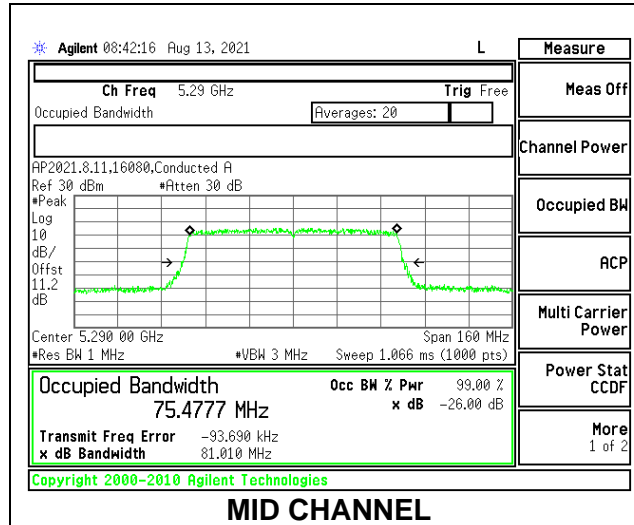
HIGH CHANNEL



9.3.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

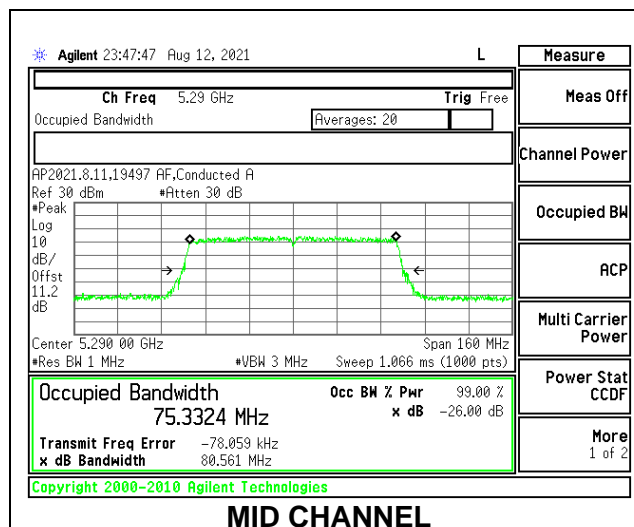
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5290	75.478



1TX Antenna 2 MODE

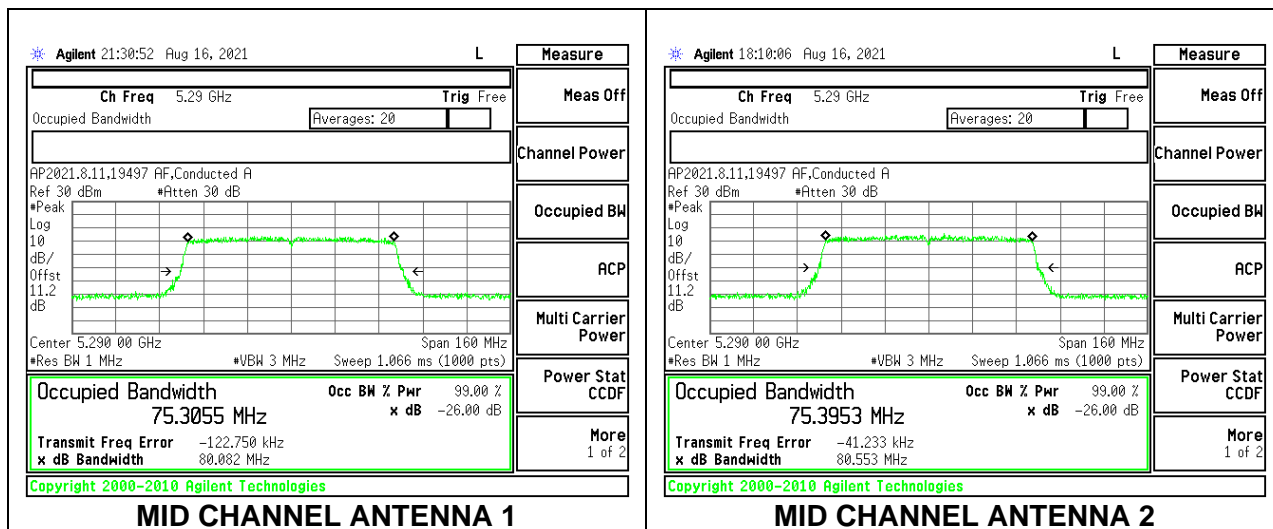
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5290	75.332



2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Mid	5290	75.306	75.395

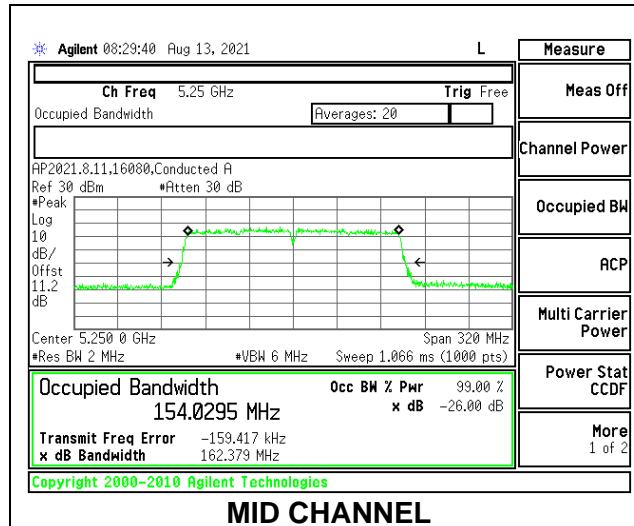
MID CHANNEL



9.3.9. 802.11ac VHT160 MODE IN THE 5.2 & 5.3 GHz BAND

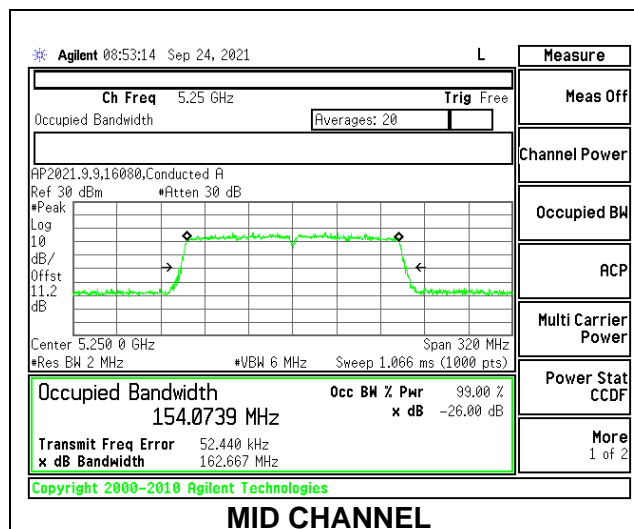
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5250	154.030



1TX Antenna 2 MODE

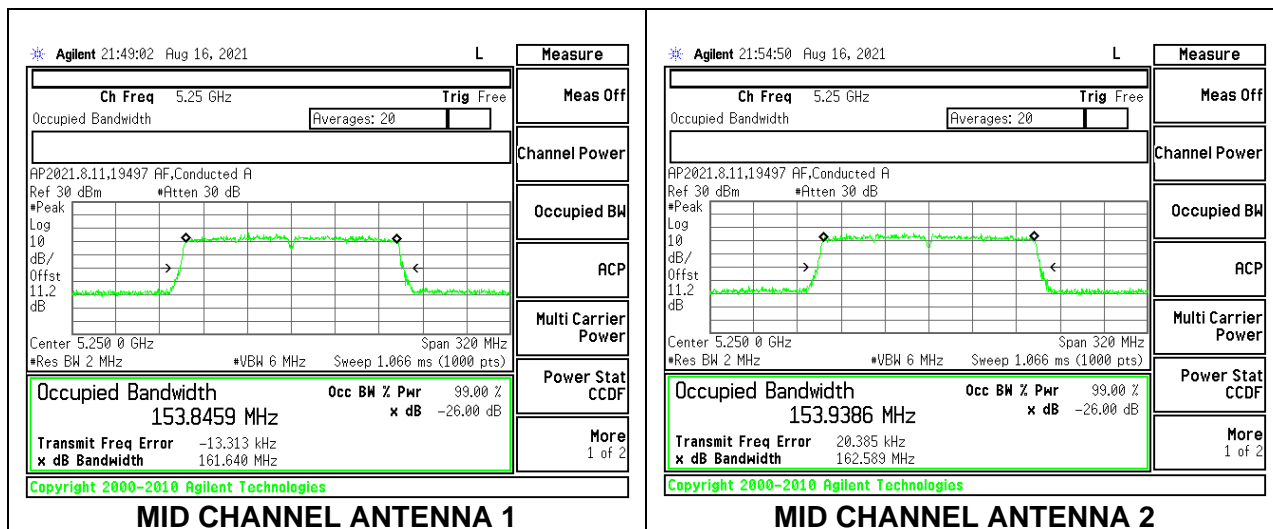
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5250	154.074



2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Mid	5250	153.846	153.939

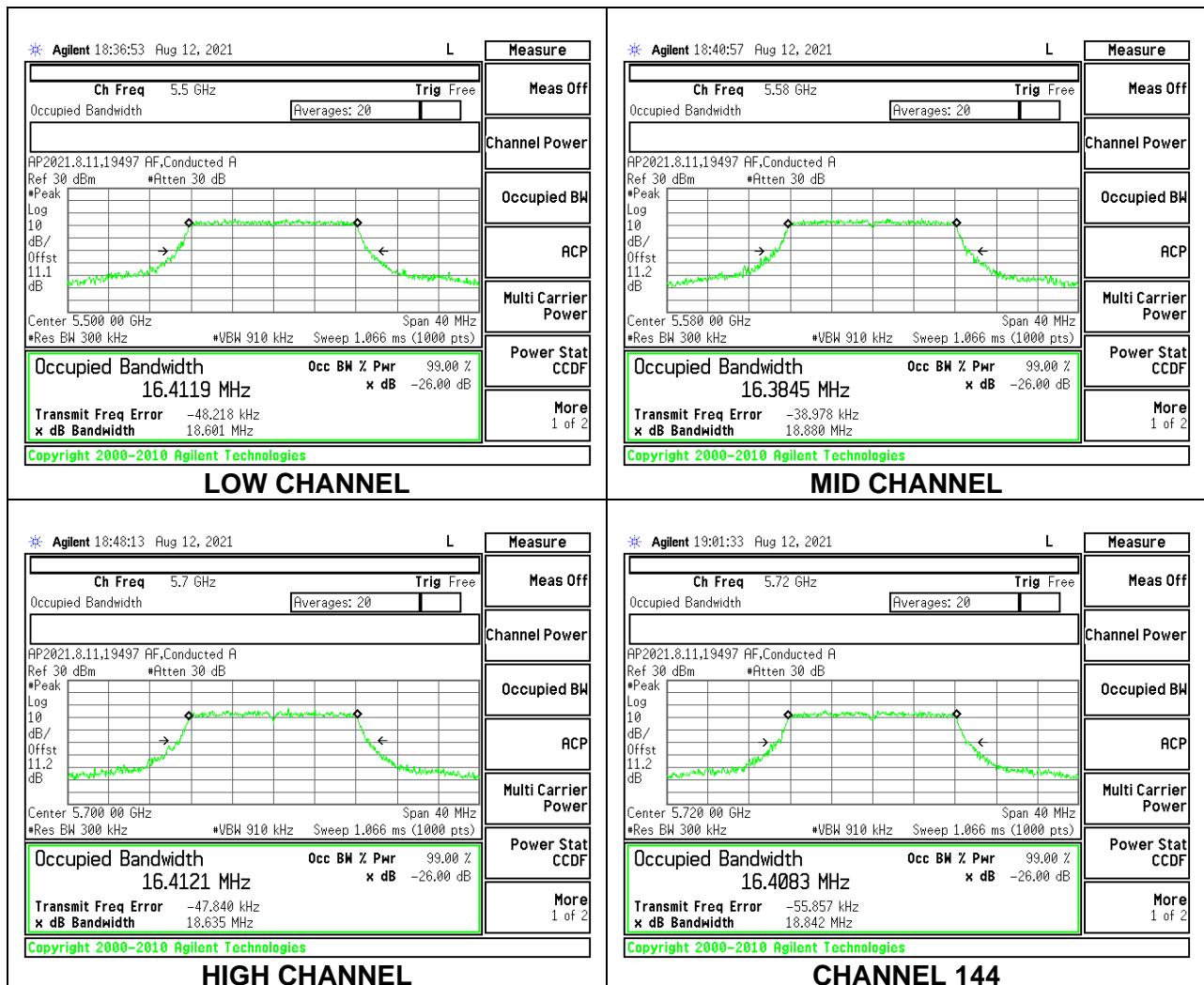
MID CHANNEL



9.3.10. 802.11a MODE IN THE 5.6 GHz BAND

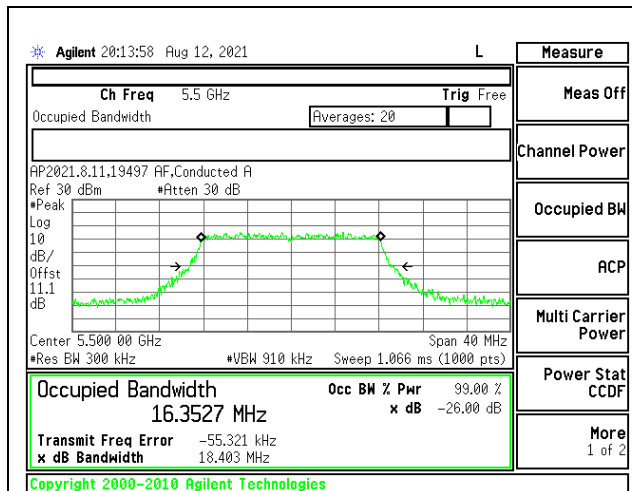
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5500	16.412
Mid	5580	16.385
High	5700	16.412
144	5720	16.408

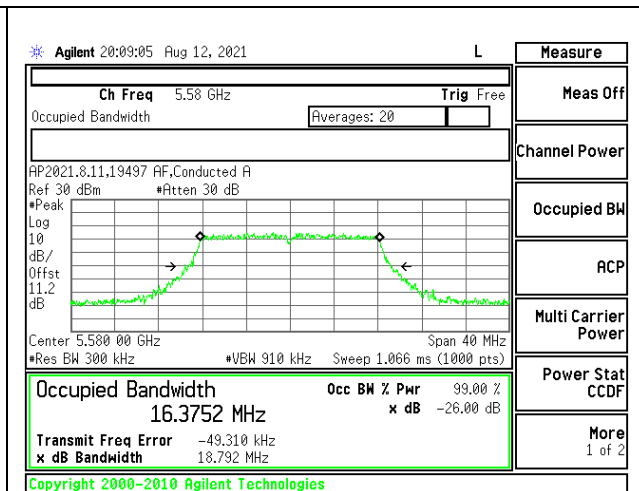


1TX Antenna 2 MODE

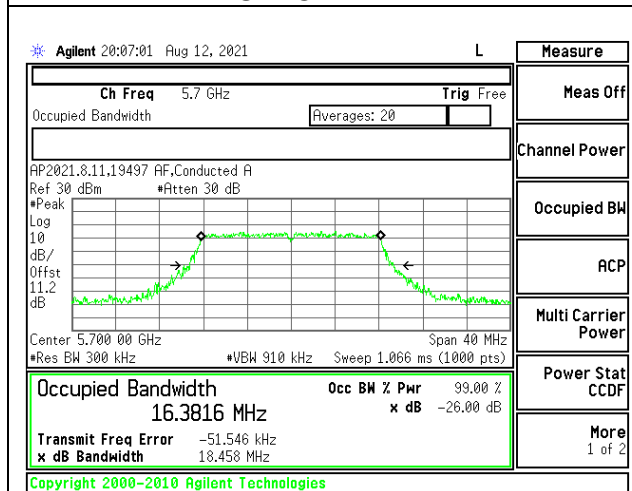
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5500	16.353
Mid	5580	16.375
High	5700	16.382
144	5720	16.373



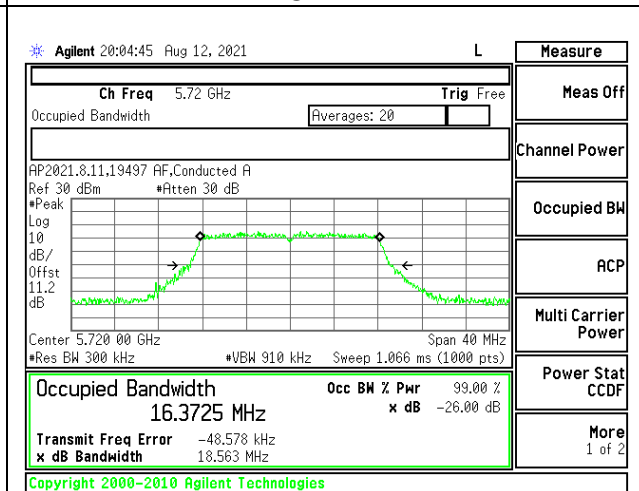
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

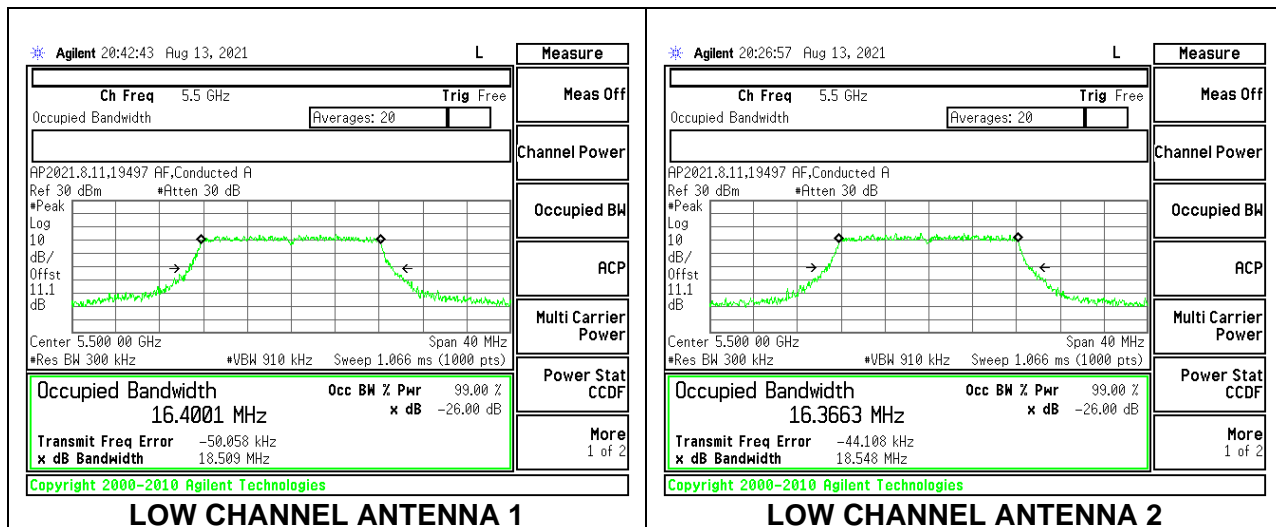


CHANNEL 144

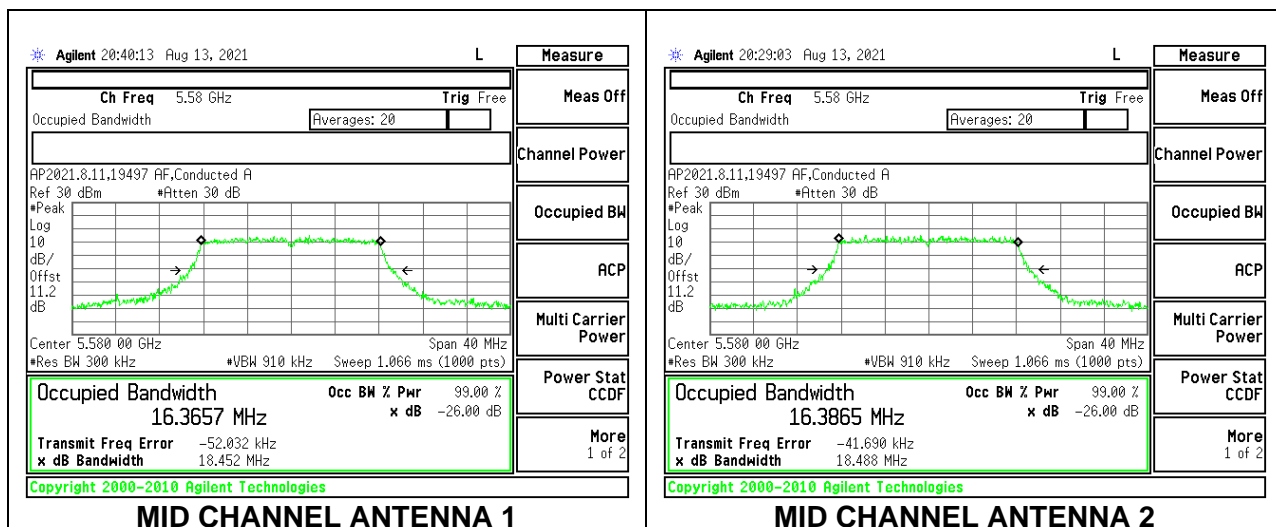
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5500	16.400	16.366
Mid	5580	16.366	16.387
High	5700	16.424	16.412
144	5720	16.402	16.391

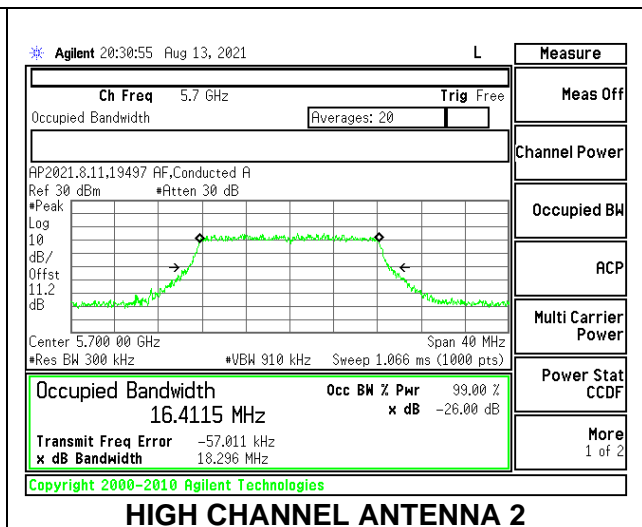
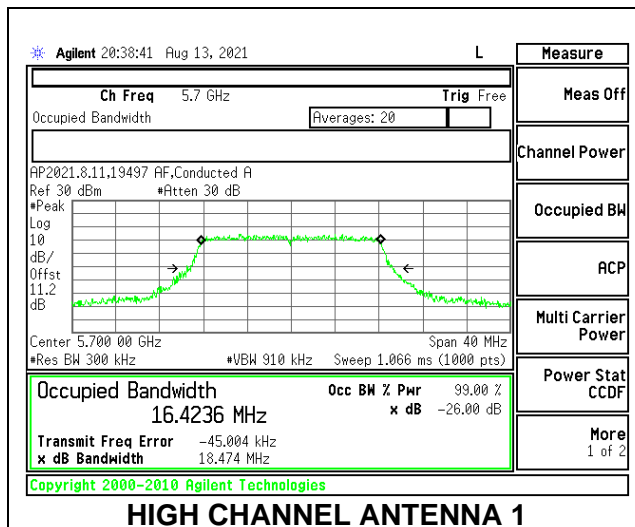
LOW CHANNEL



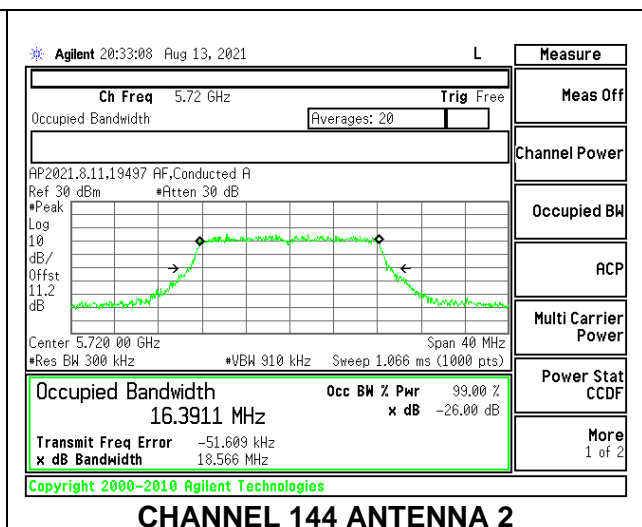
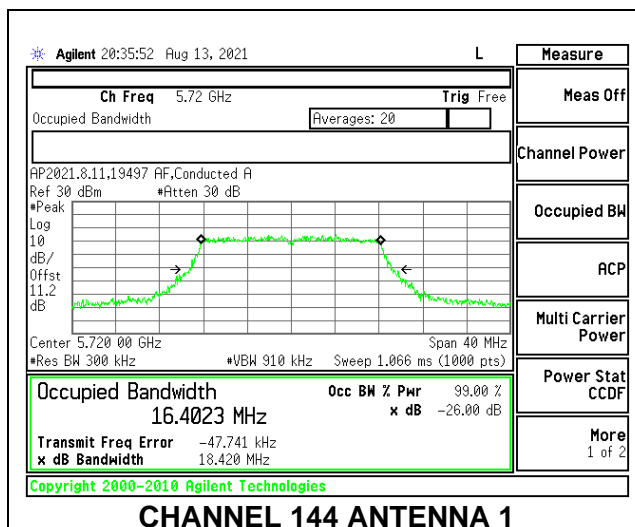
MID CHANNEL



HIGH CHANNEL



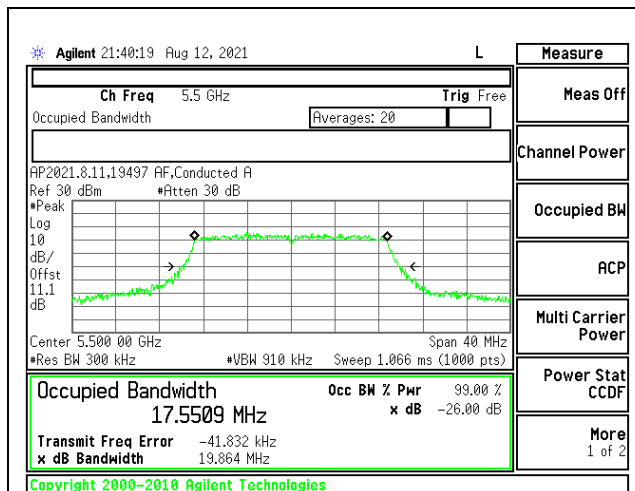
CHANNEL 144



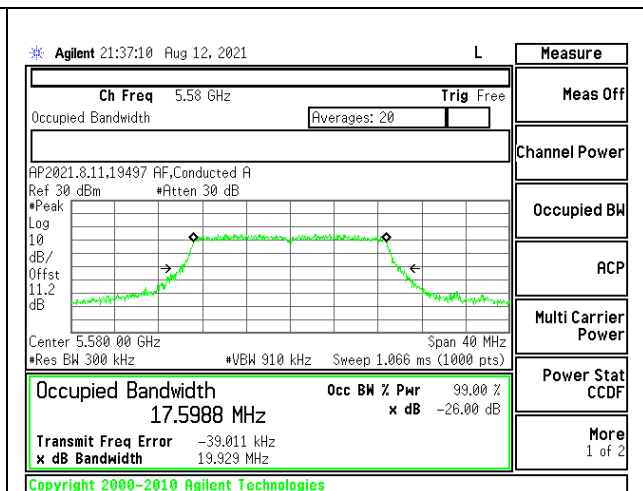
9.3.11. 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

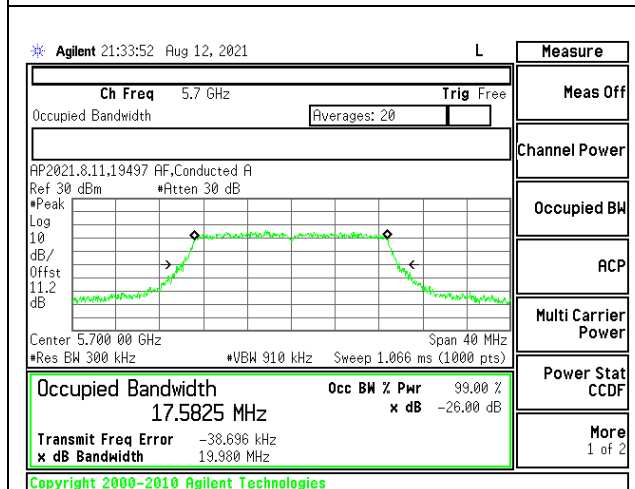
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5500	17.551
Mid	5580	17.599
High	5700	17.583
144	5720	17.578



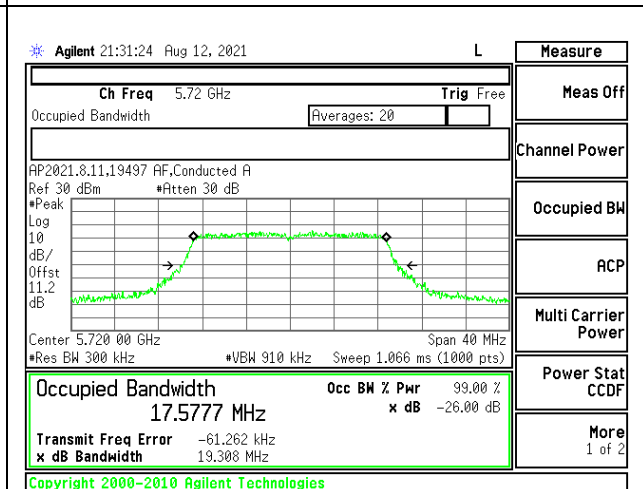
LOW CHANNEL



MID CHANNEL



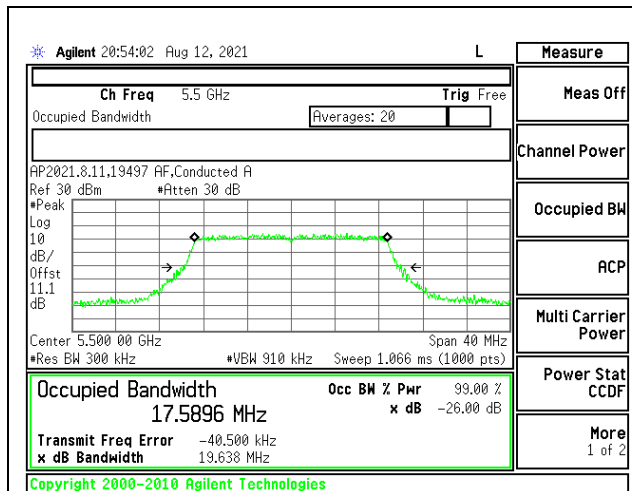
HIGH CHANNEL



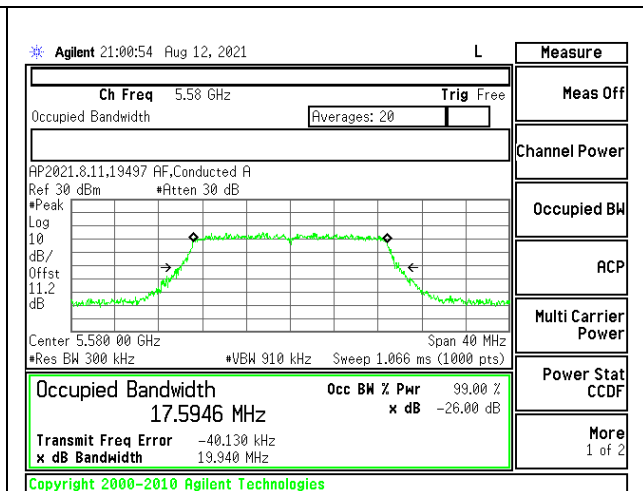
CHANNEL 144

1TX Antenna 2 MODE

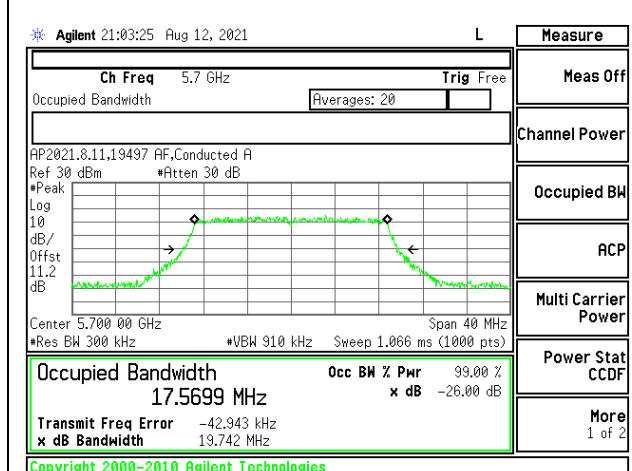
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5500	17.590
Mid	5580	17.595
High	5700	17.570
144	5720	17.606



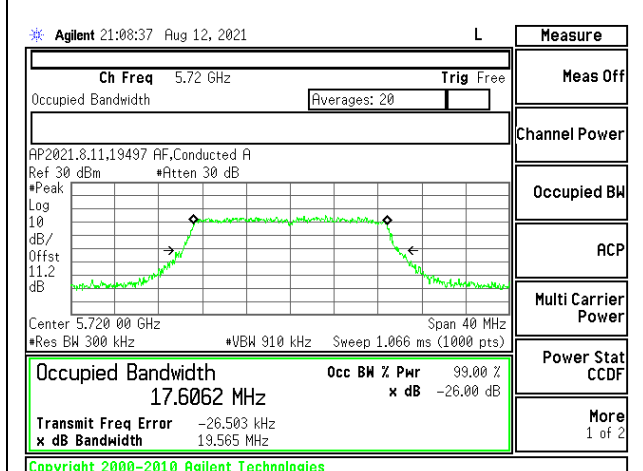
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

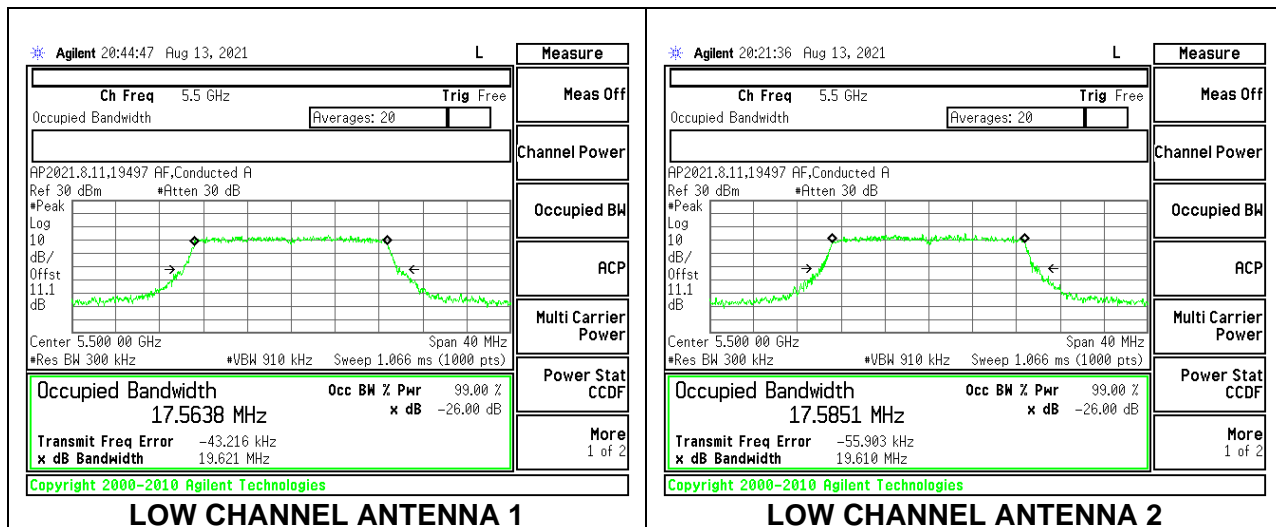


CHANNEL 144

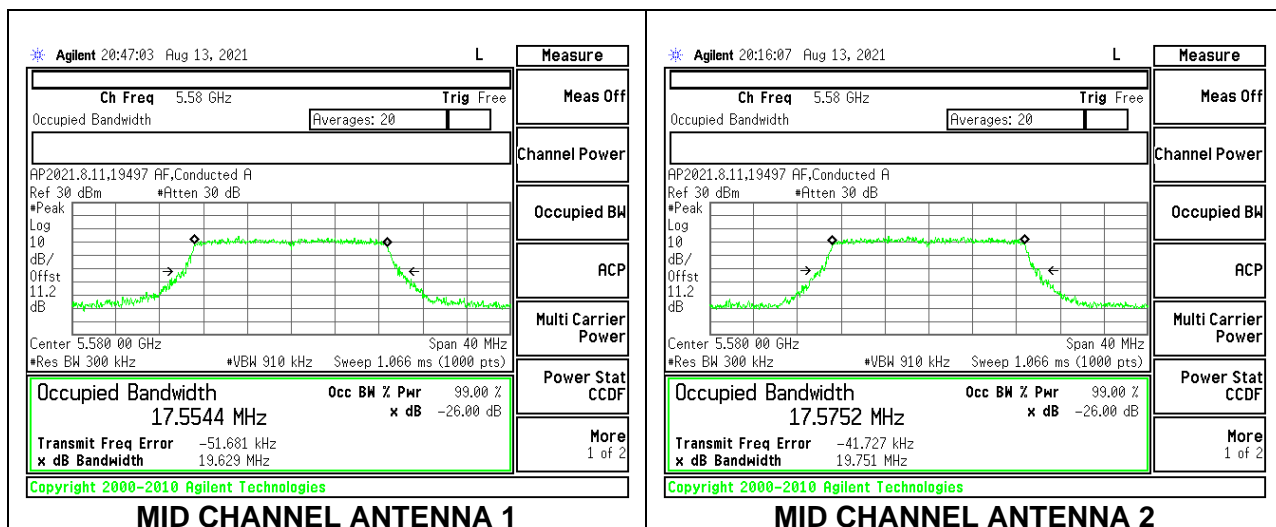
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5500	17.564	17.585
Mid	5580	17.554	17.575
High	5700	17.555	17.571
144	5720	17.606	17.616

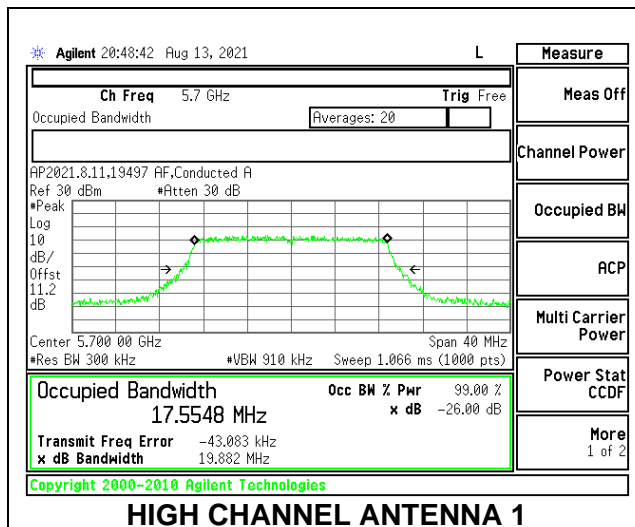
LOW CHANNEL



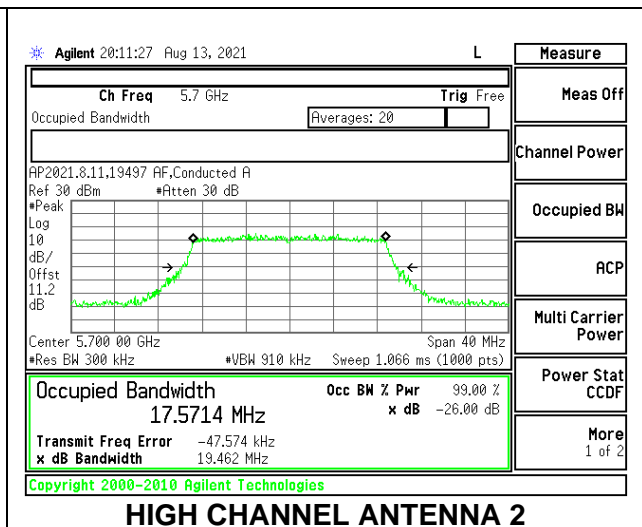
MID CHANNEL



HIGH CHANNEL

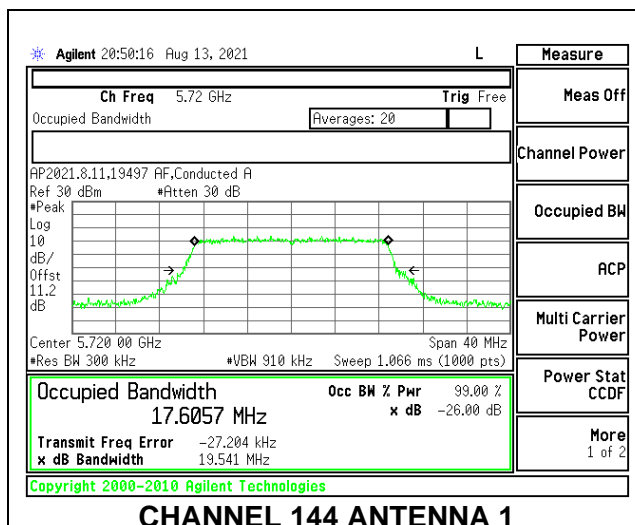


HIGH CHANNEL ANTENNA 1

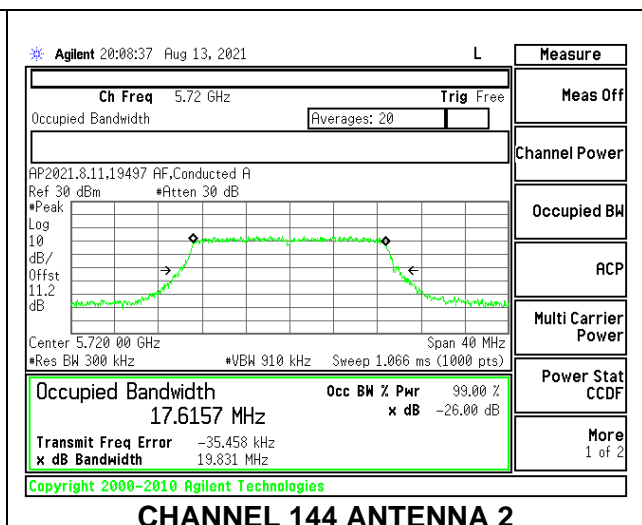


HIGH CHANNEL ANTENNA 2

CHANNEL 144



CHANNEL 144 ANTENNA 1

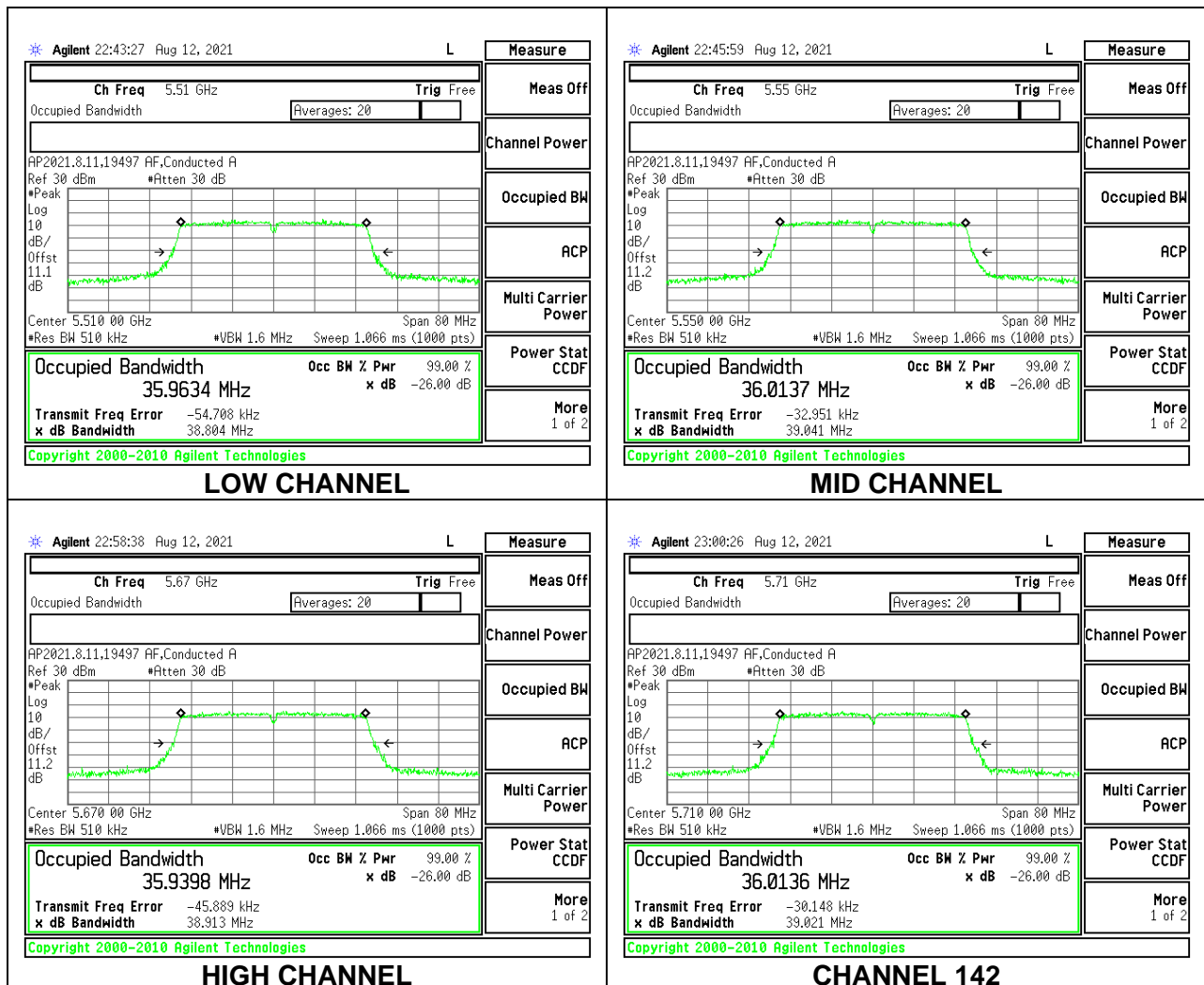


CHANNEL 144 ANTENNA 2

9.3.12. 802.11n HT40 MODE IN THE 5.6 GHz BAND

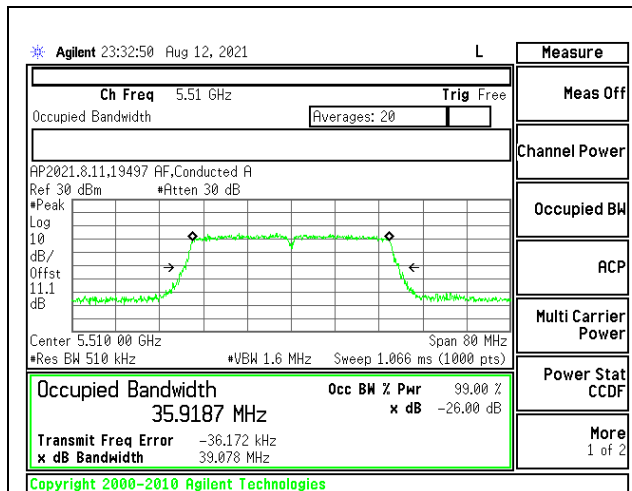
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5510	35.963
Mid	5550	36.014
High	5670	35.940
142	5710	36.014

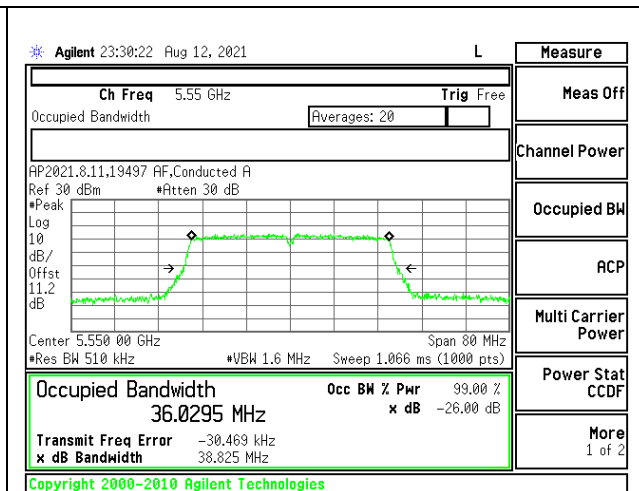


1TX Antenna 2 MODE

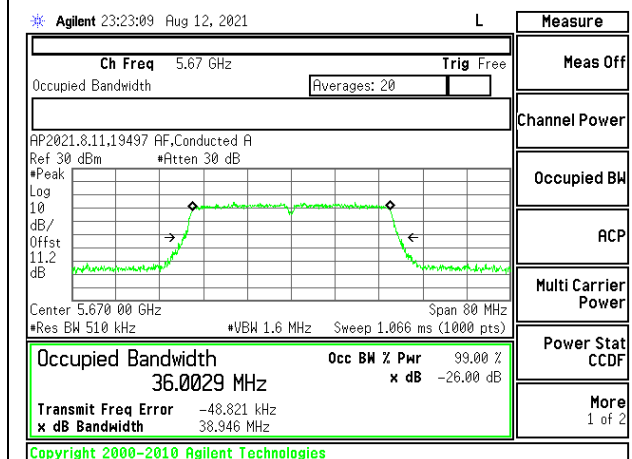
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5510	35.919
Mid	5550	36.030
High	5670	36.003
142	5710	36.015



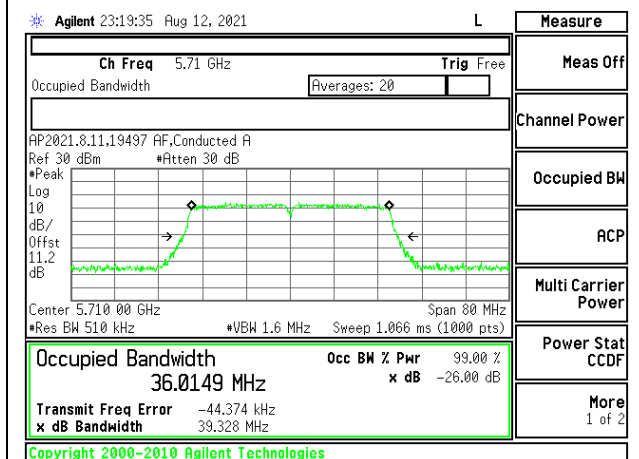
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

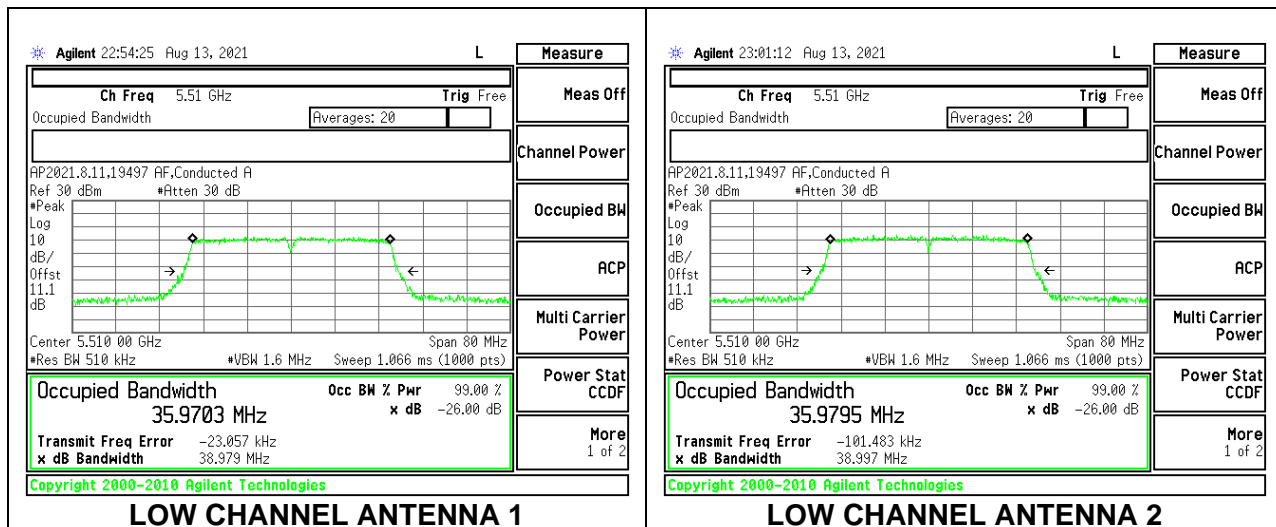


CHANNEL 142

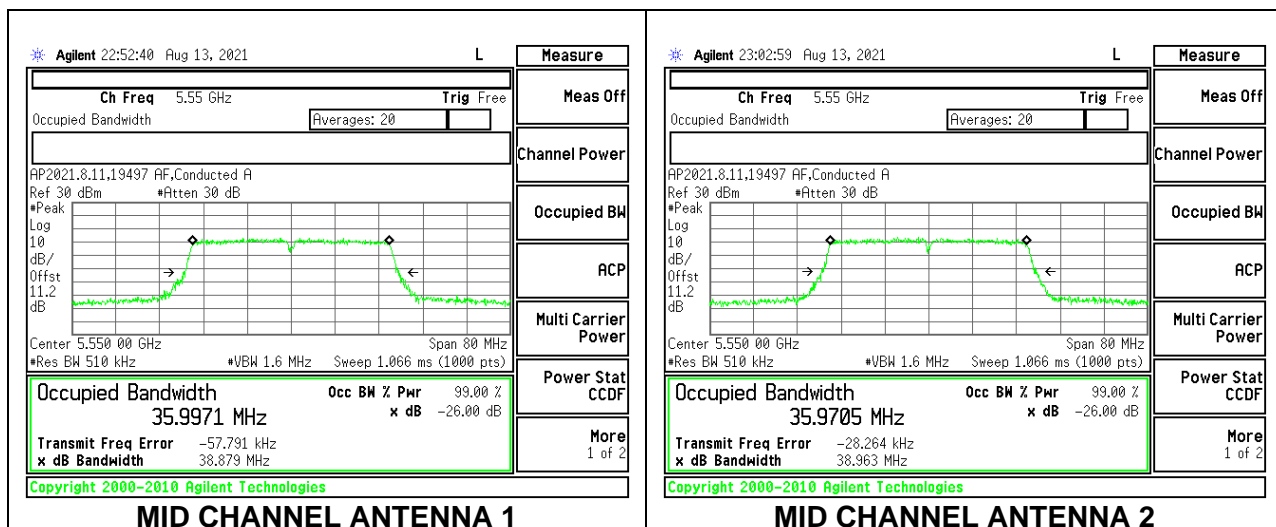
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5510	35.970	35.980
Mid	5550	35.997	35.971
High	5670	35.995	36.020
142	5710	36.015	35.971

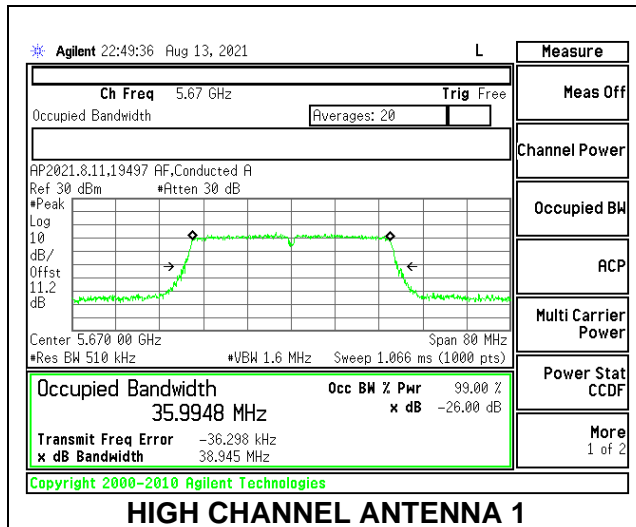
LOW CHANNEL



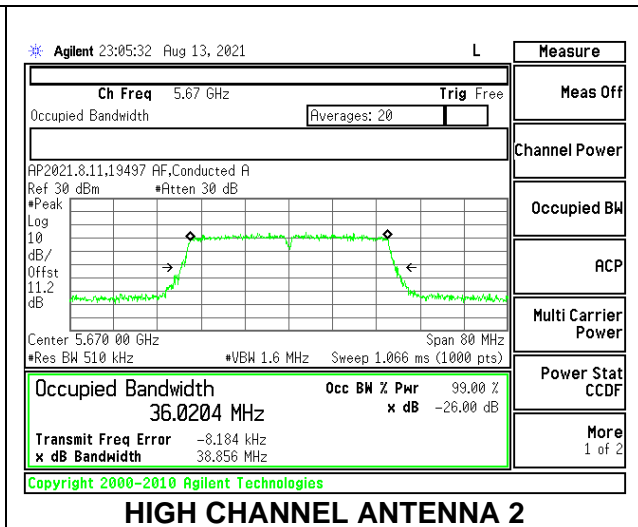
MID CHANNEL



HIGH CHANNEL

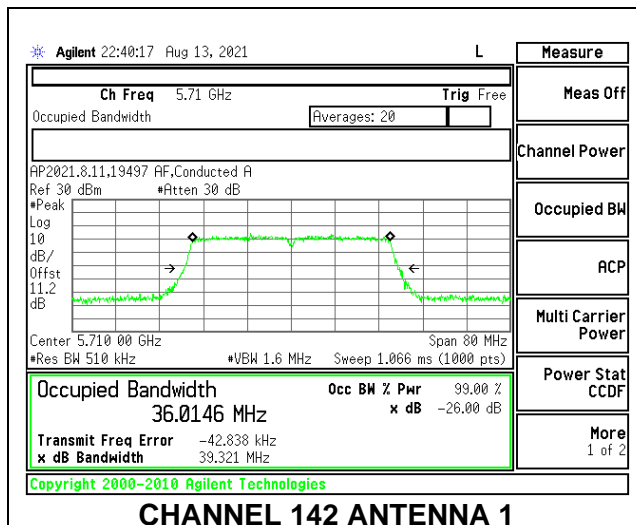


HIGH CHANNEL ANTENNA 1

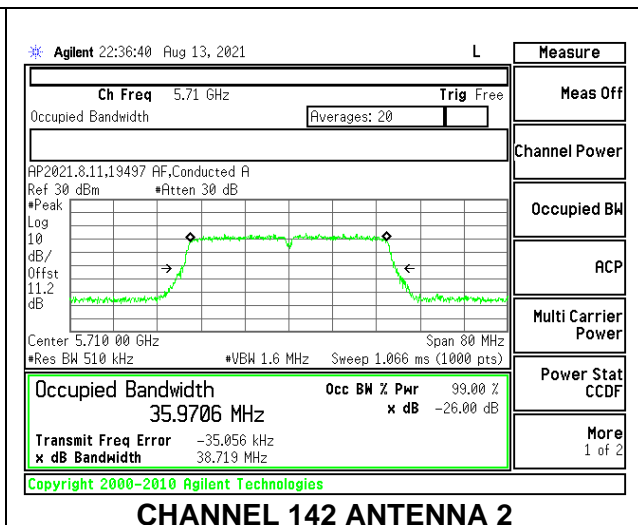


HIGH CHANNEL ANTENNA 2

CHANNEL 142



CHANNEL 142 ANTENNA 1

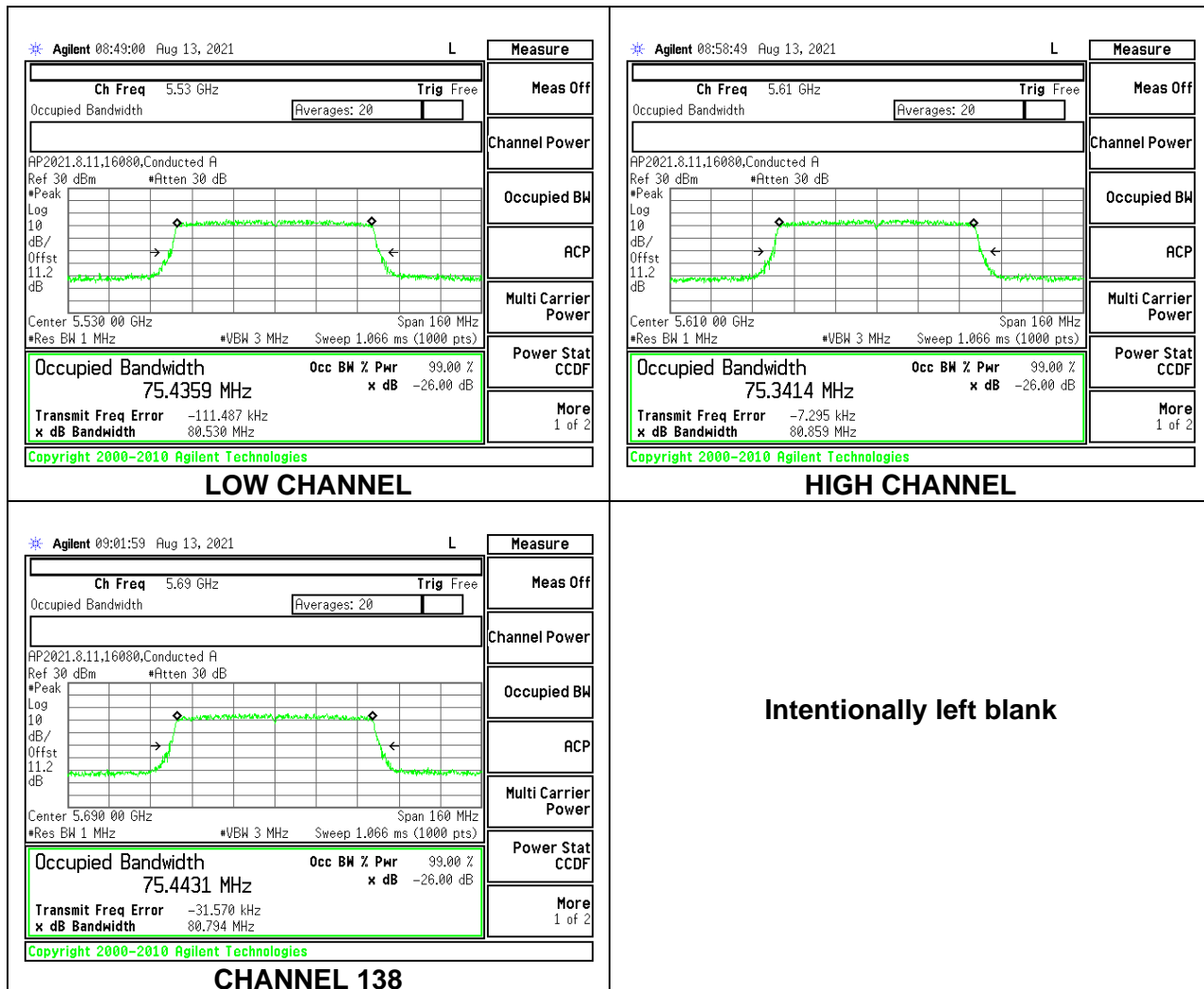


CHANNEL 142 ANTENNA 2

9.3.13. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

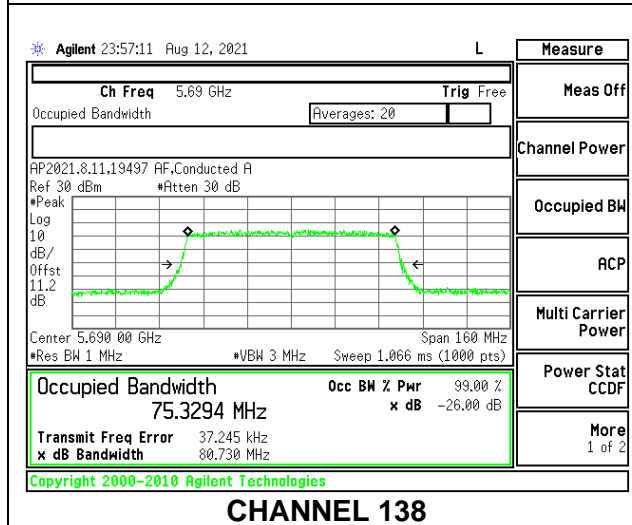
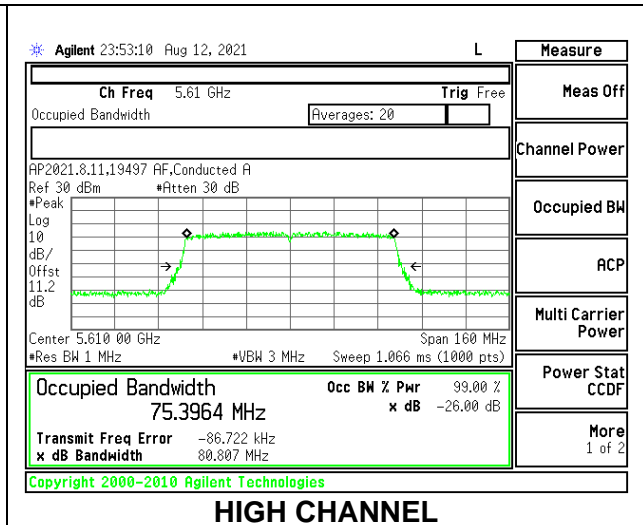
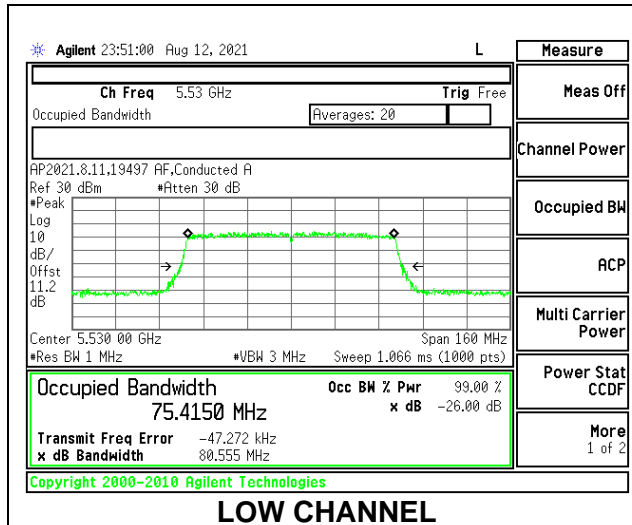
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5530	75.436
High	5610	75.341
138	5690	75.443



1TX Antenna 2 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5530	75.415
High	5610	75.396
138	5690	75.329

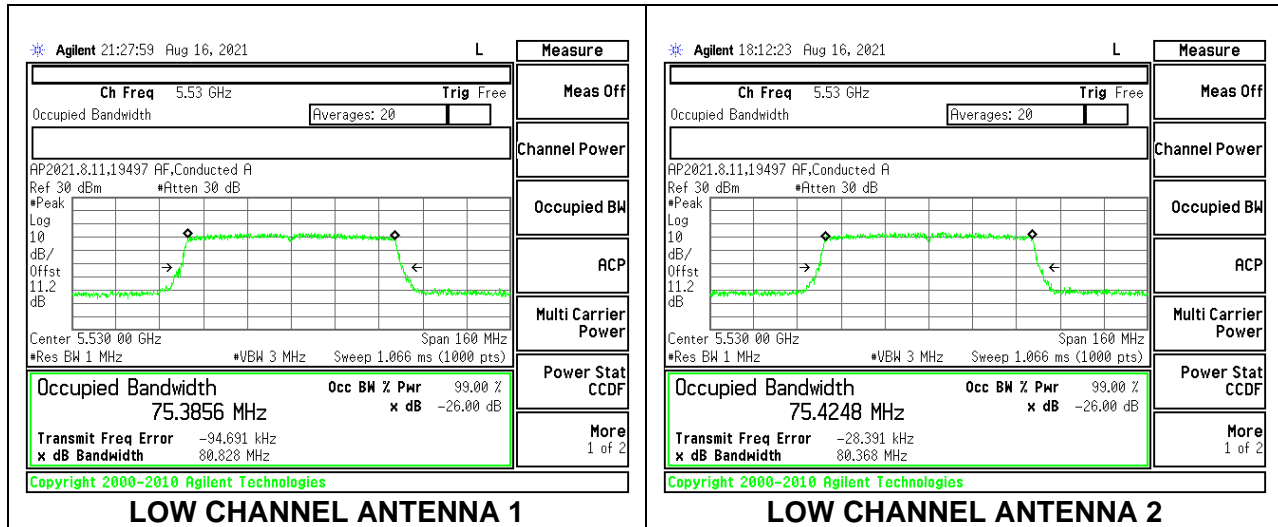


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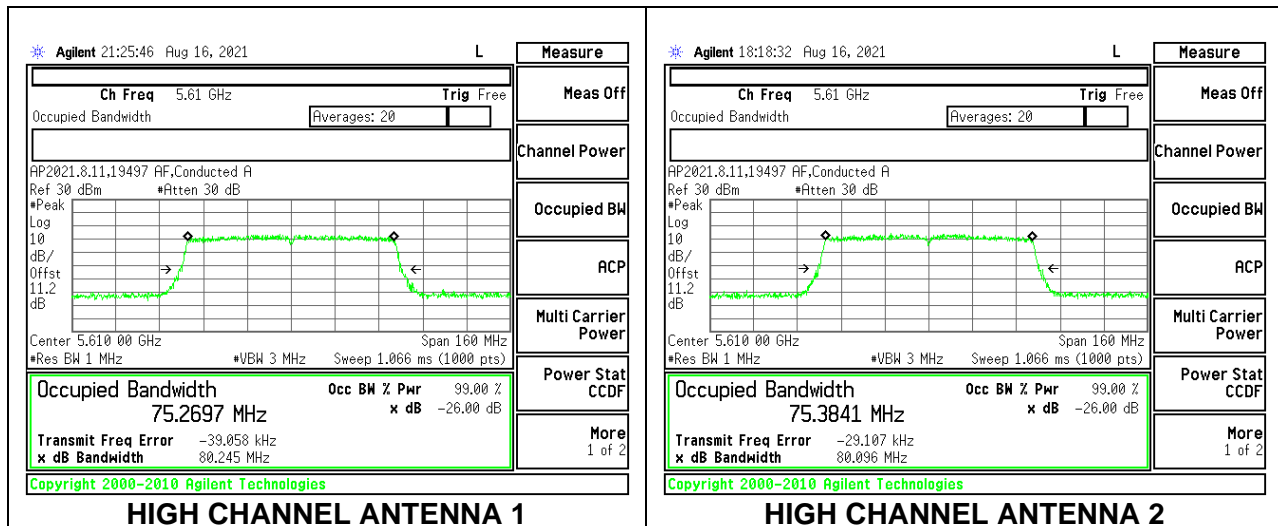
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5530	75.386	75.425
High	5610	75.270	75.384
138	5690	75.508	75.371

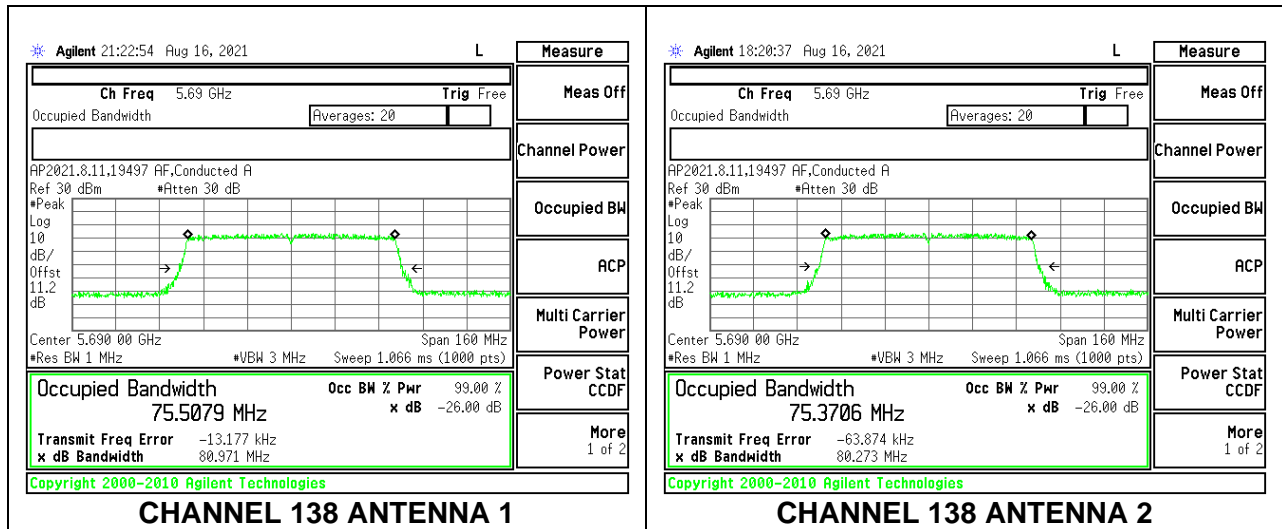
LOW CHANNEL



HIGH CHANNEL



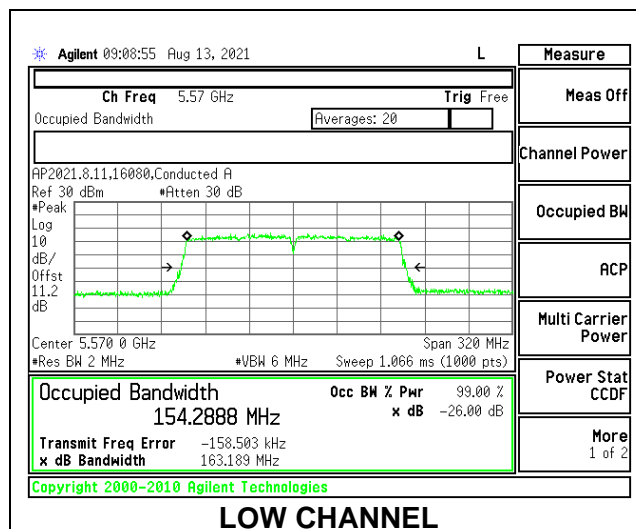
CHANNEL 138



9.3.14. 802.11ac VHT160 MODE IN THE 5.6 GHz BAND

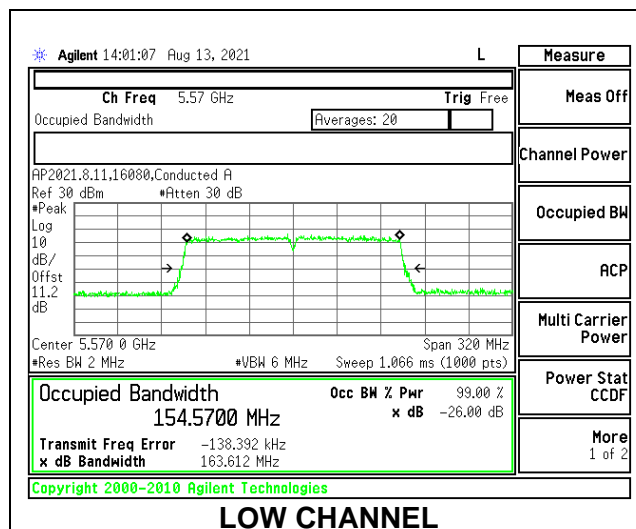
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5570	154.289



1TX Antenna 2 MODE

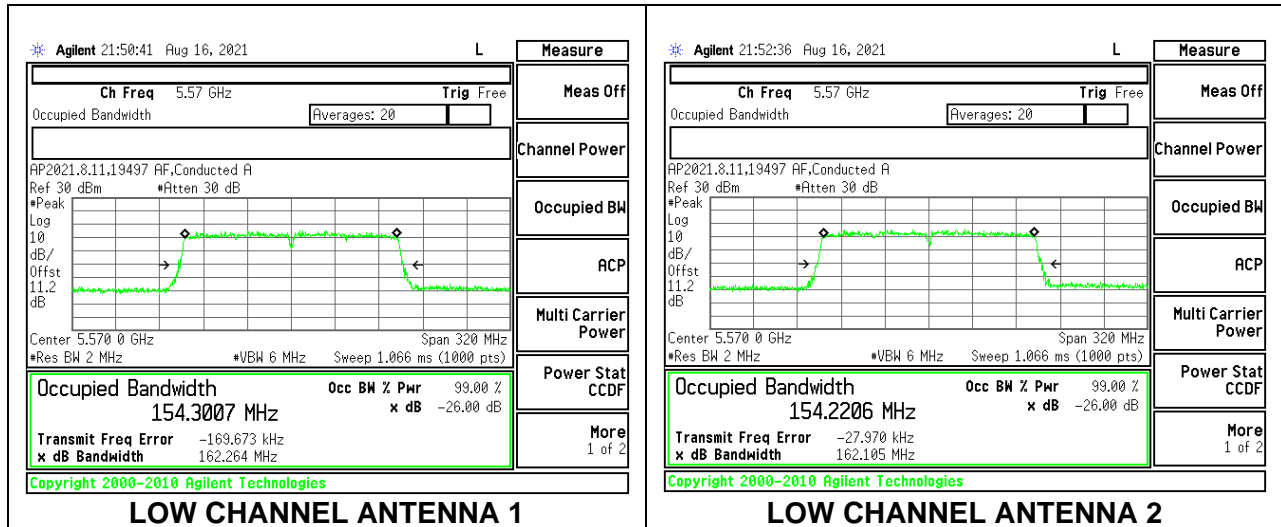
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5570	154.570



2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5570	154.301	154.221

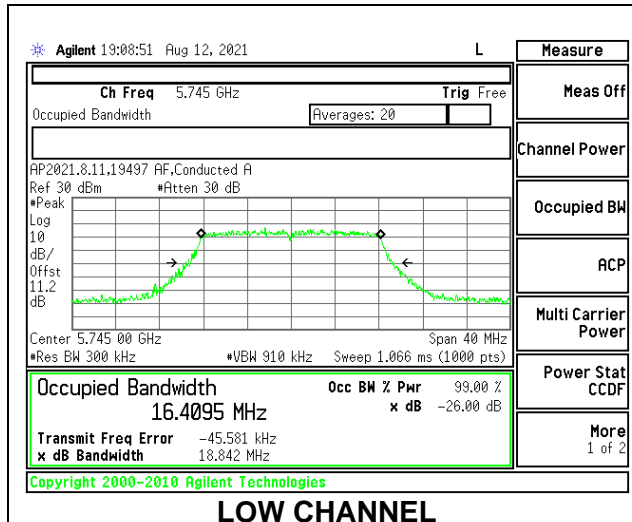
LOW CHANNEL



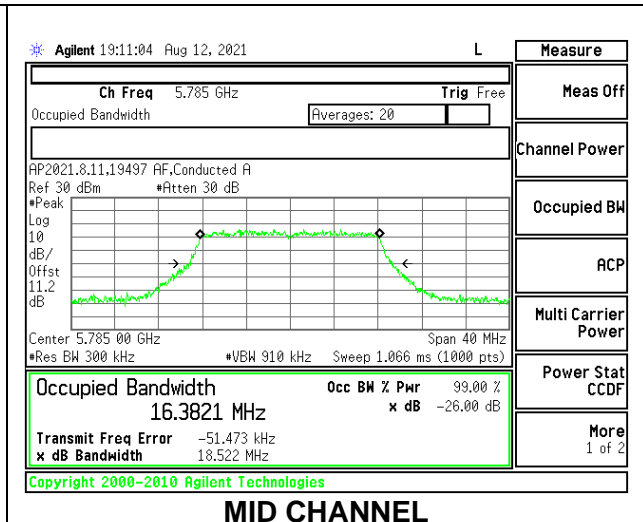
9.3.15. 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

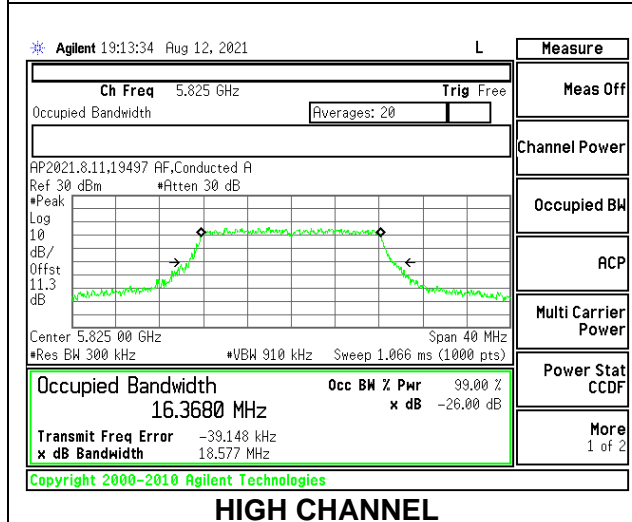
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	16.410
Mid	5785	16.382
High	5825	16.368



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

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1TX Antenna 2 MODE

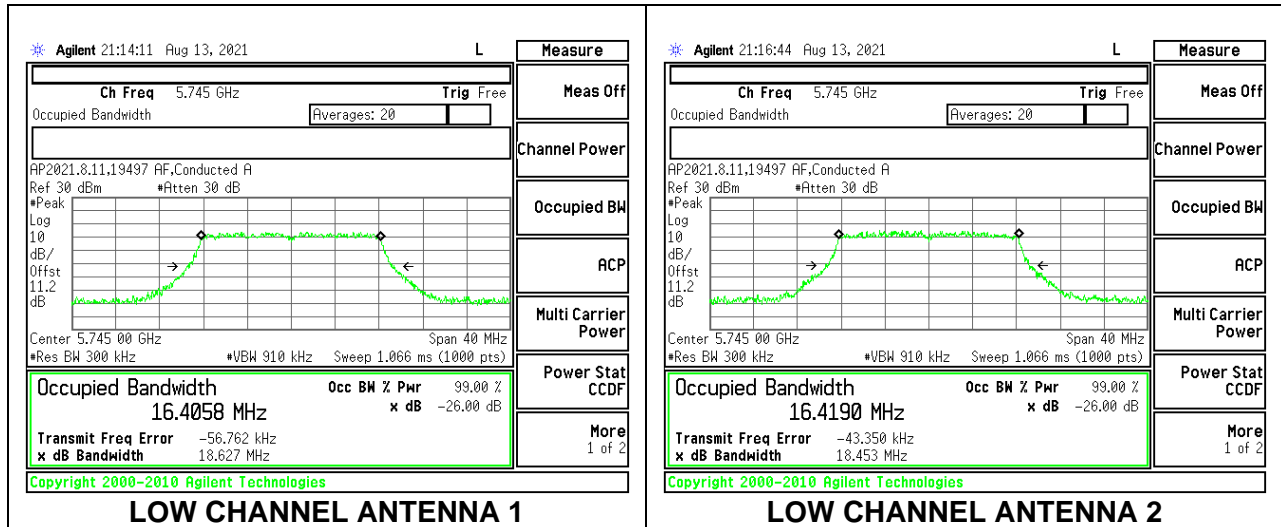
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	16.393
Mid	5785	16.393
High	5825	16.378

<p>* Agilent 20:02:54 Aug 12, 2021 L Measure</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Occupied Bandwidth Averages: 20</p> <p>AP2021.8.11.19497 AF,Conducted A Ref 30 dBm #Atten 30 dB</p> <p>Center 5.745 00 GHz Span 40 MHz #Res BW 300 kHz #VBW 910 kHz Sweep 1.066 ms (1000 pts)</p> <p>Occupied Bandwidth 16.3931 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -39.585 kHz x dB Bandwidth 18.557 MHz</p> <p>Copyright 2000-2010 Agilent Technologies</p> <p>LOW CHANNEL</p>	<p>* Agilent 20:00:59 Aug 12, 2021 L Measure</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Occupied Bandwidth Averages: 20</p> <p>AP2021.8.11.19497 AF,Conducted A Ref 30 dBm #Atten 30 dB</p> <p>Center 5.785 00 GHz Span 40 MHz #Res BW 300 kHz #VBW 910 kHz Sweep 1.066 ms (1000 pts)</p> <p>Occupied Bandwidth 16.3928 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -48.192 kHz x dB Bandwidth 18.543 MHz</p> <p>Copyright 2000-2010 Agilent Technologies</p> <p>MID CHANNEL</p>
<p>* Agilent 19:56:29 Aug 12, 2021 L Measure</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Occupied Bandwidth Averages: 20</p> <p>AP2021.8.11.19497 AF,Conducted A Ref 30 dBm #Atten 30 dB</p> <p>Center 5.825 00 GHz Span 40 MHz #Res BW 300 kHz #VBW 910 kHz Sweep 1.066 ms (1000 pts)</p> <p>Occupied Bandwidth 16.3779 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -32.720 kHz x dB Bandwidth 18.870 MHz</p> <p>Copyright 2000-2010 Agilent Technologies</p> <p>HIGH CHANNEL</p>	<p>Intentionally left blank</p>

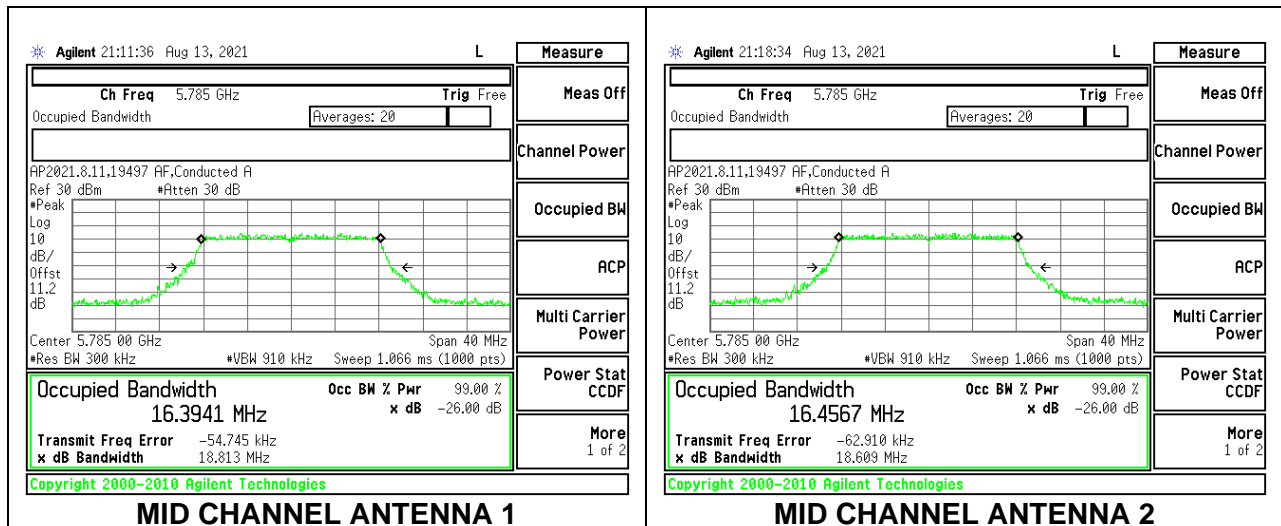
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5745	16.406	16.419
Mid	5785	16.394	16.457
High	5825	16.347	16.406

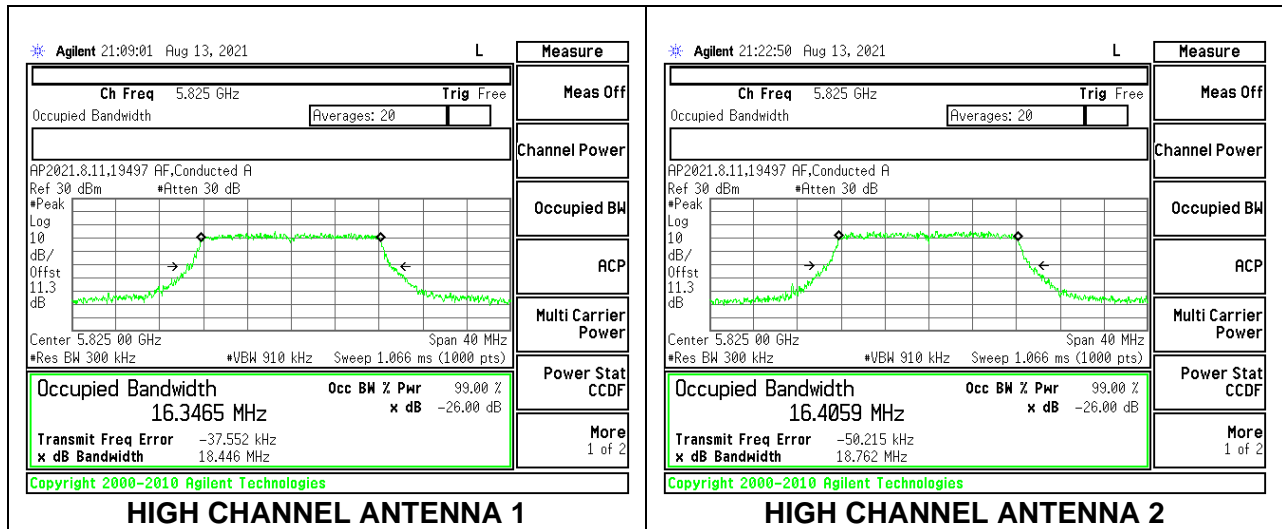
LOW CHANNEL



MID CHANNEL



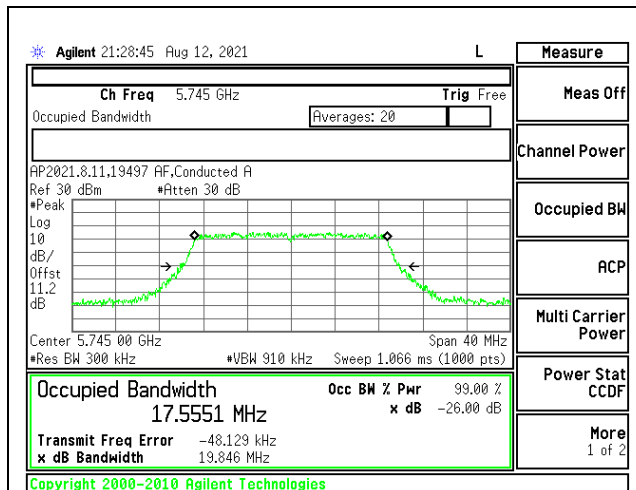
HIGH CHANNEL



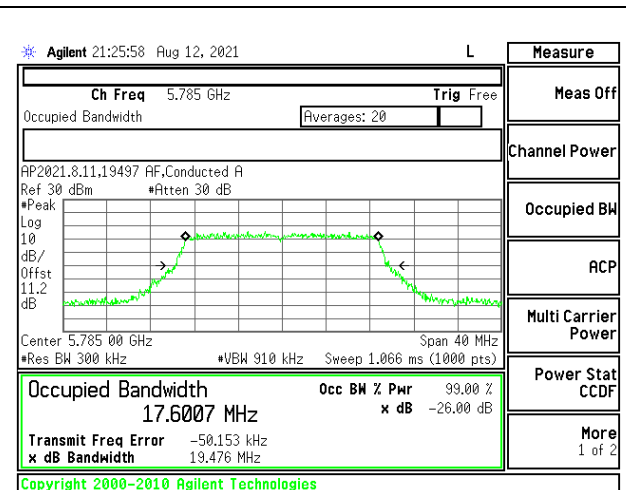
9.3.16. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

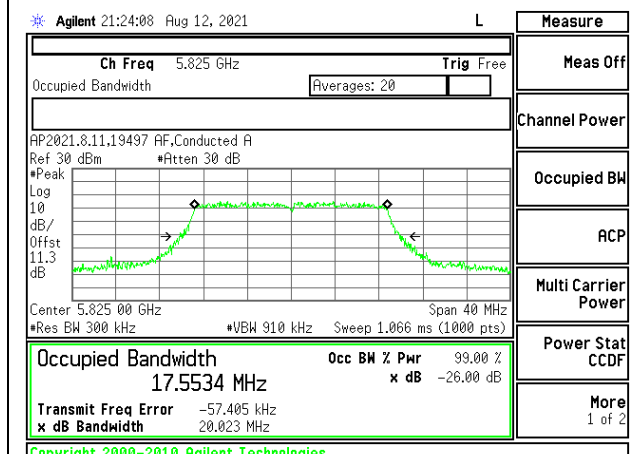
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	17.555
Mid	5785	17.601
High	5825	17.553



LOW CHANNEL



MID CHANNEL

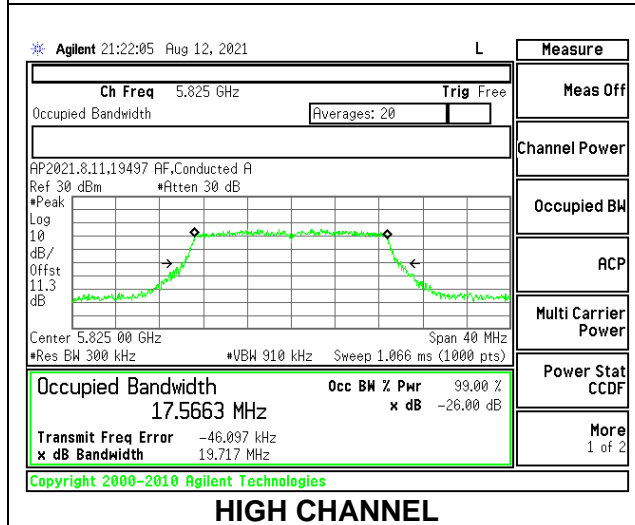
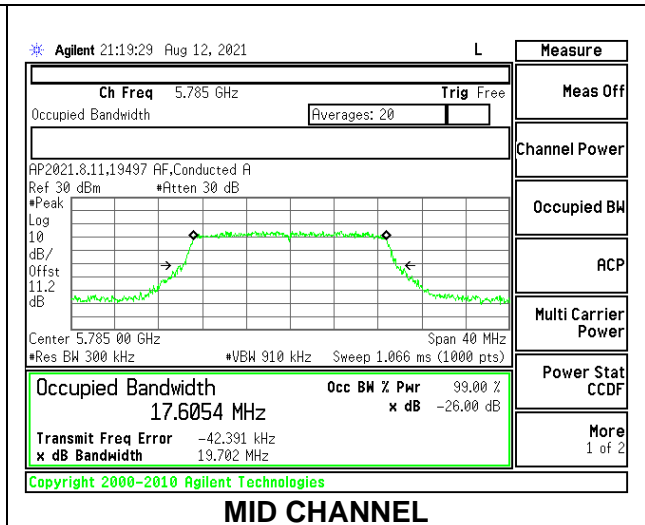
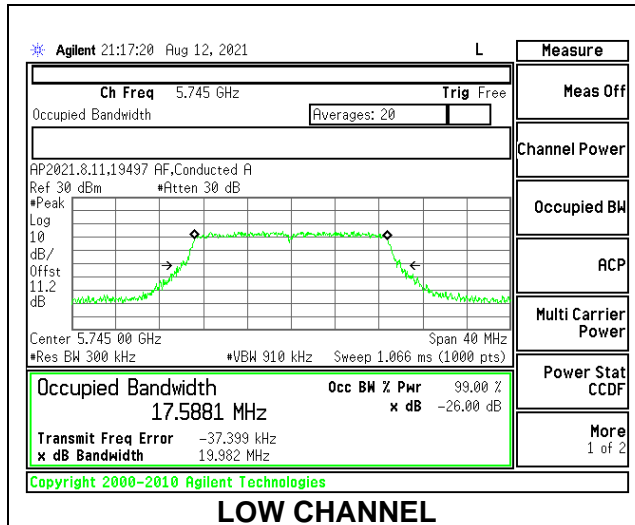


HIGH CHANNEL

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1TX Antenna 2 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	17.588
Mid	5785	17.605
High	5825	17.566

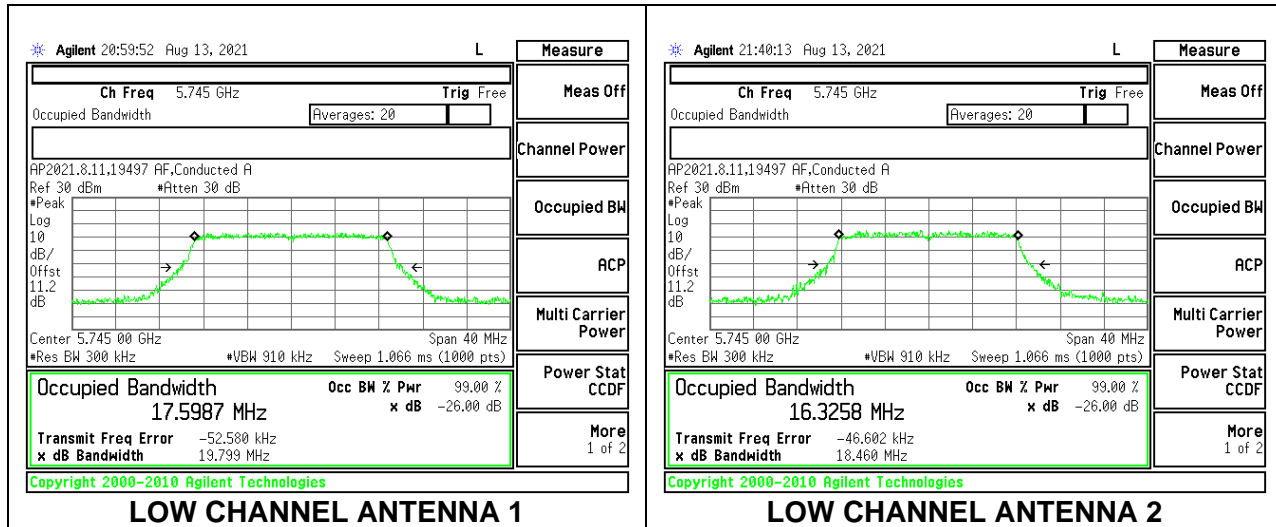


Intentionally left blank

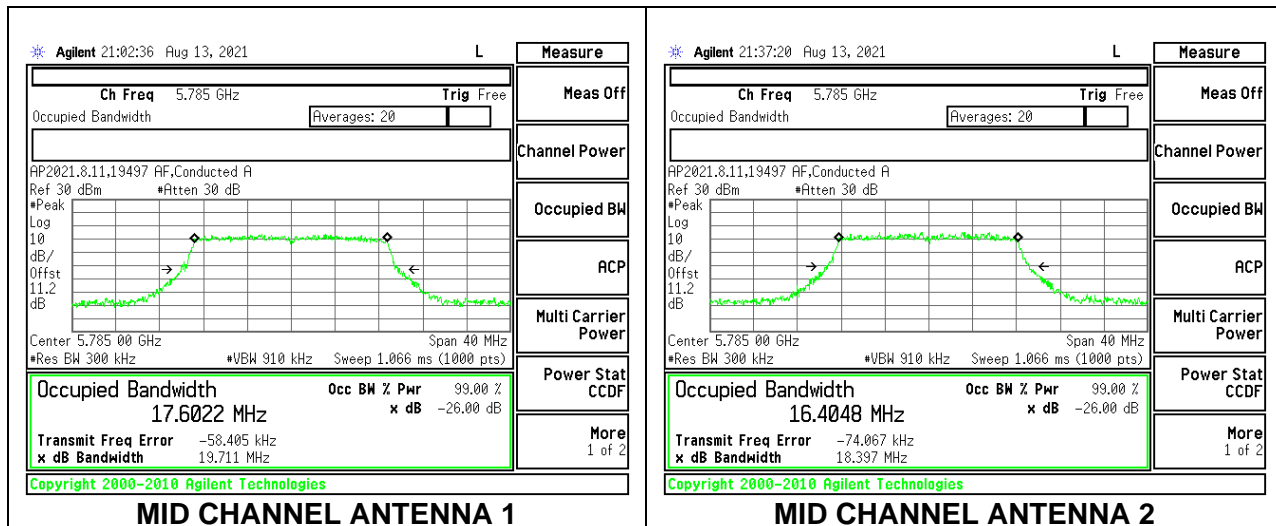
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5745	17.599	16.326
Mid	5785	17.602	16.405
High	5825	16.418	16.451

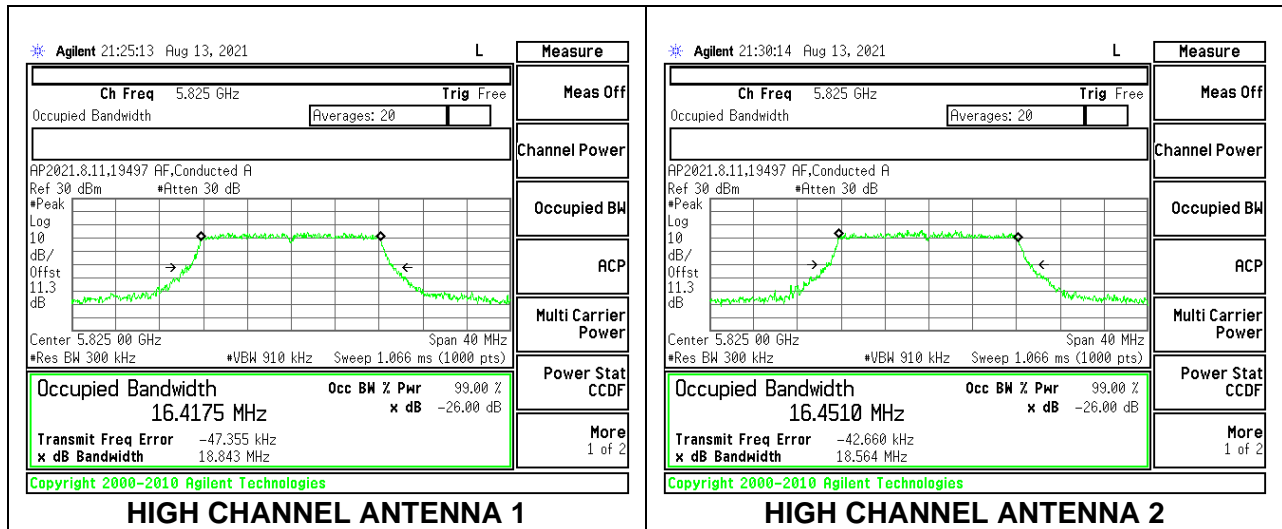
LOW CHANNEL



MID CHANNEL



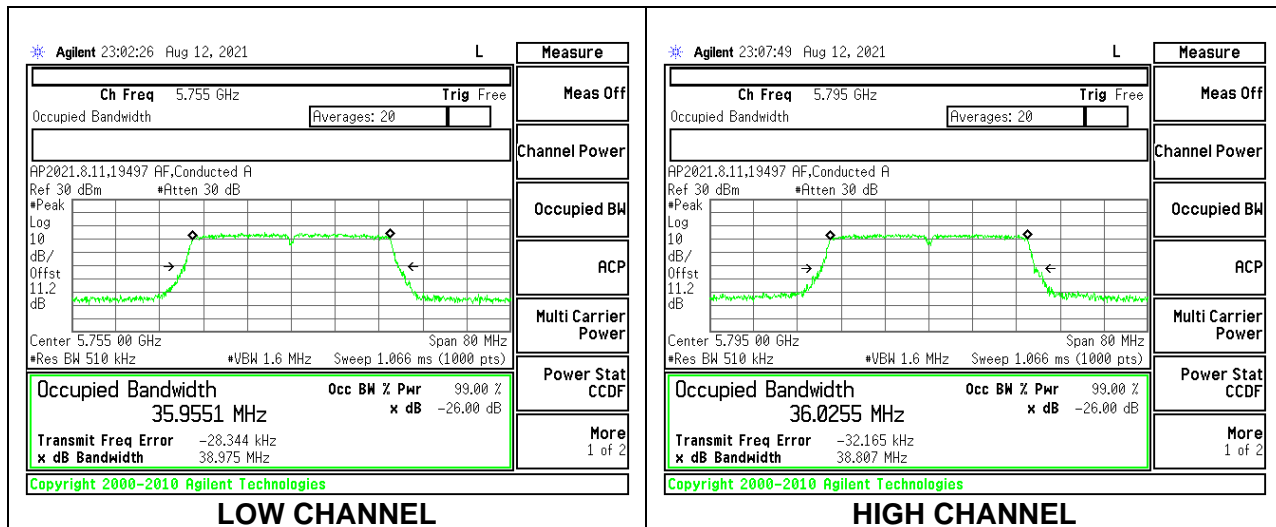
HIGH CHANNEL



9.3.17. 802.11n HT40 MODE IN THE 5.8 GHz BAND

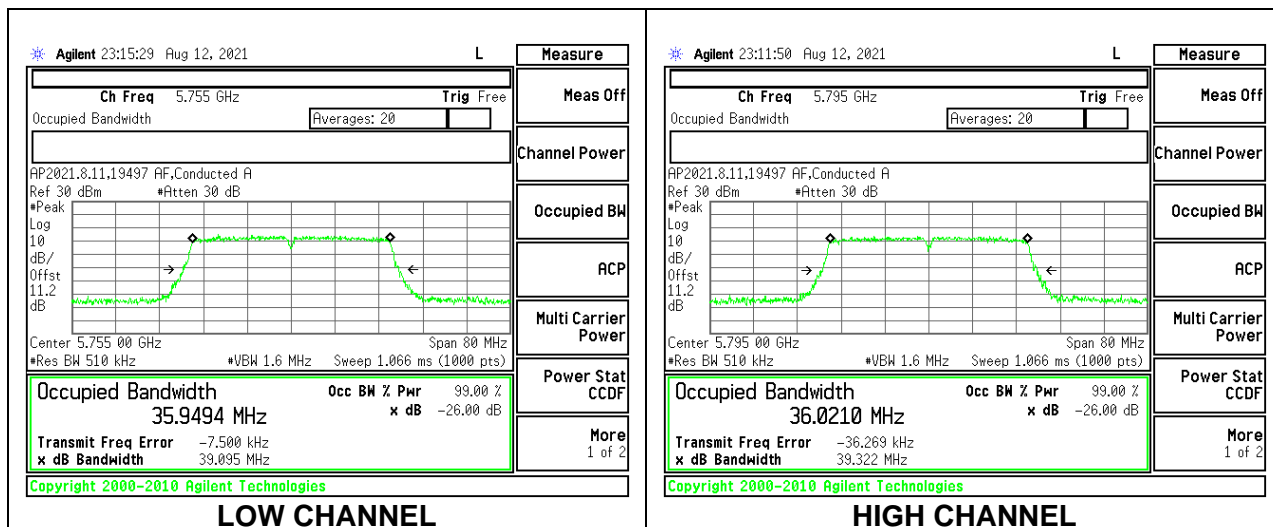
1TX Antenna 1 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	35.955
High	5795	36.026



1TX Antenna 2 MODE

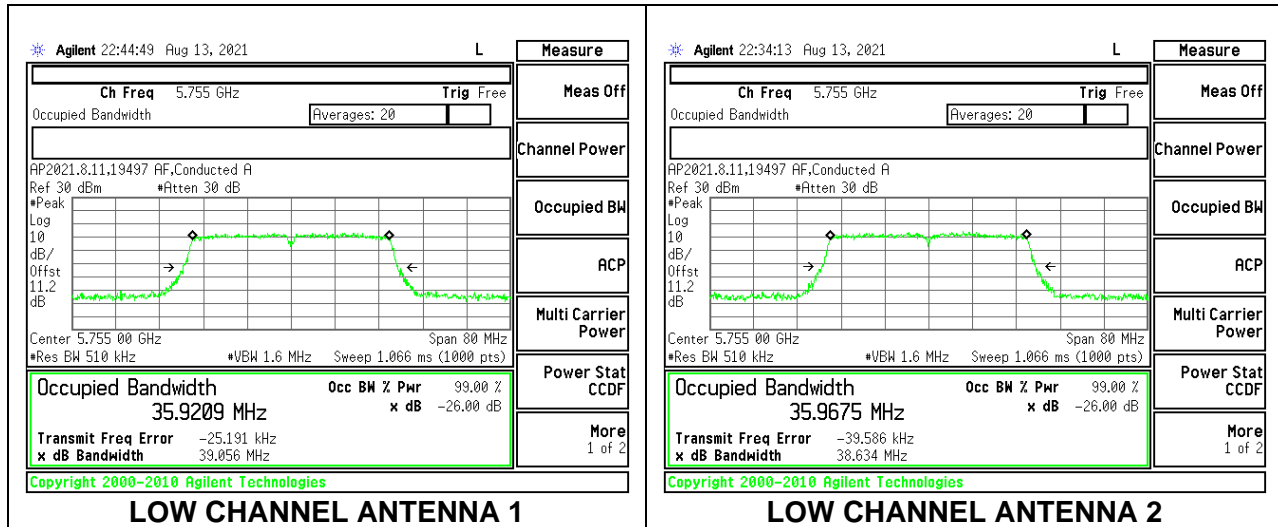
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	35.949
High	5795	36.021



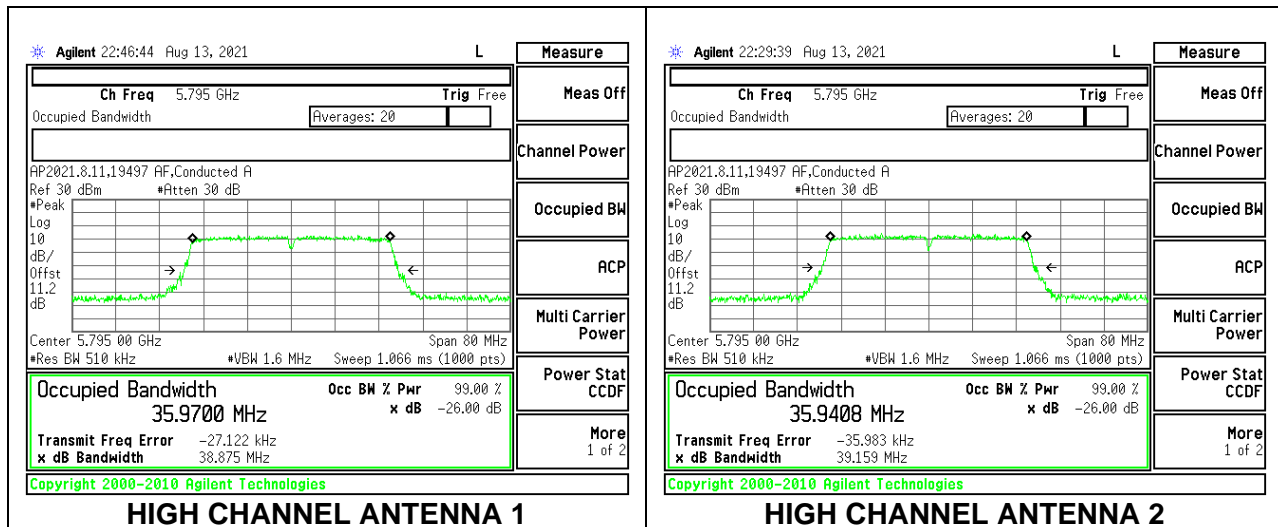
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Low	5755	35.921	35.968
High	5795	35.970	35.941

LOW CHANNEL



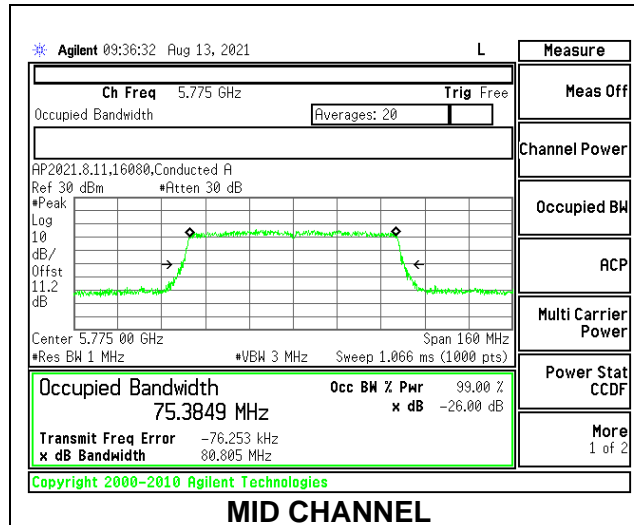
HIGH CHANNEL



9.3.18. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

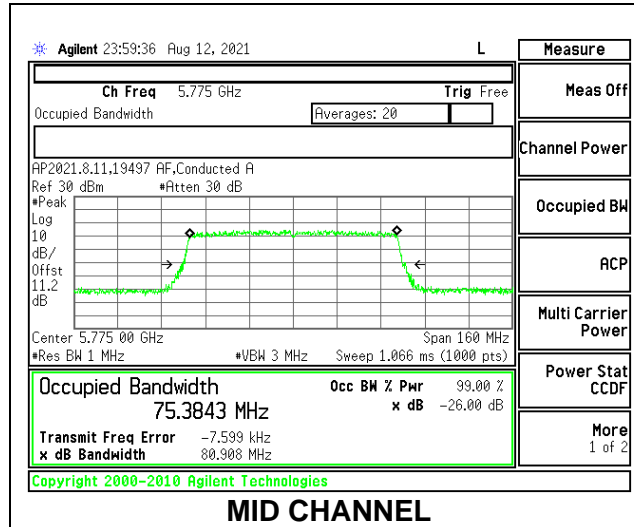
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	75.385



MID CHANNEL

1TX Antenna 2 MODE

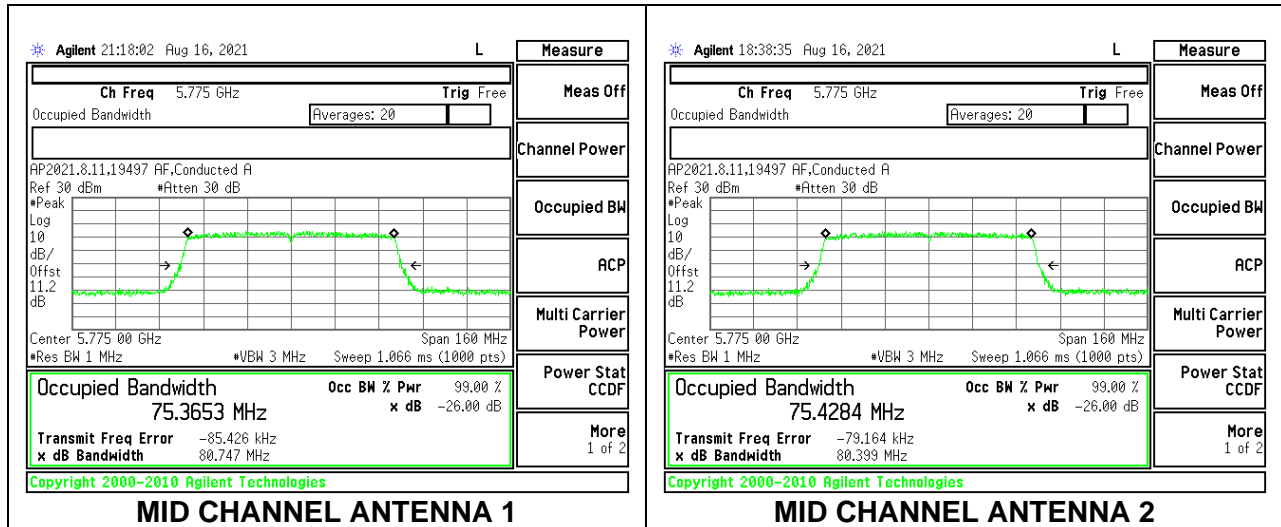
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	75.384



2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	99% Bandwidth Antenna 1 (MHz)	99% Bandwidth Antenna 2 (MHz)
Mid	5775	75.365	75.428

MID CHANNEL



9.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.1

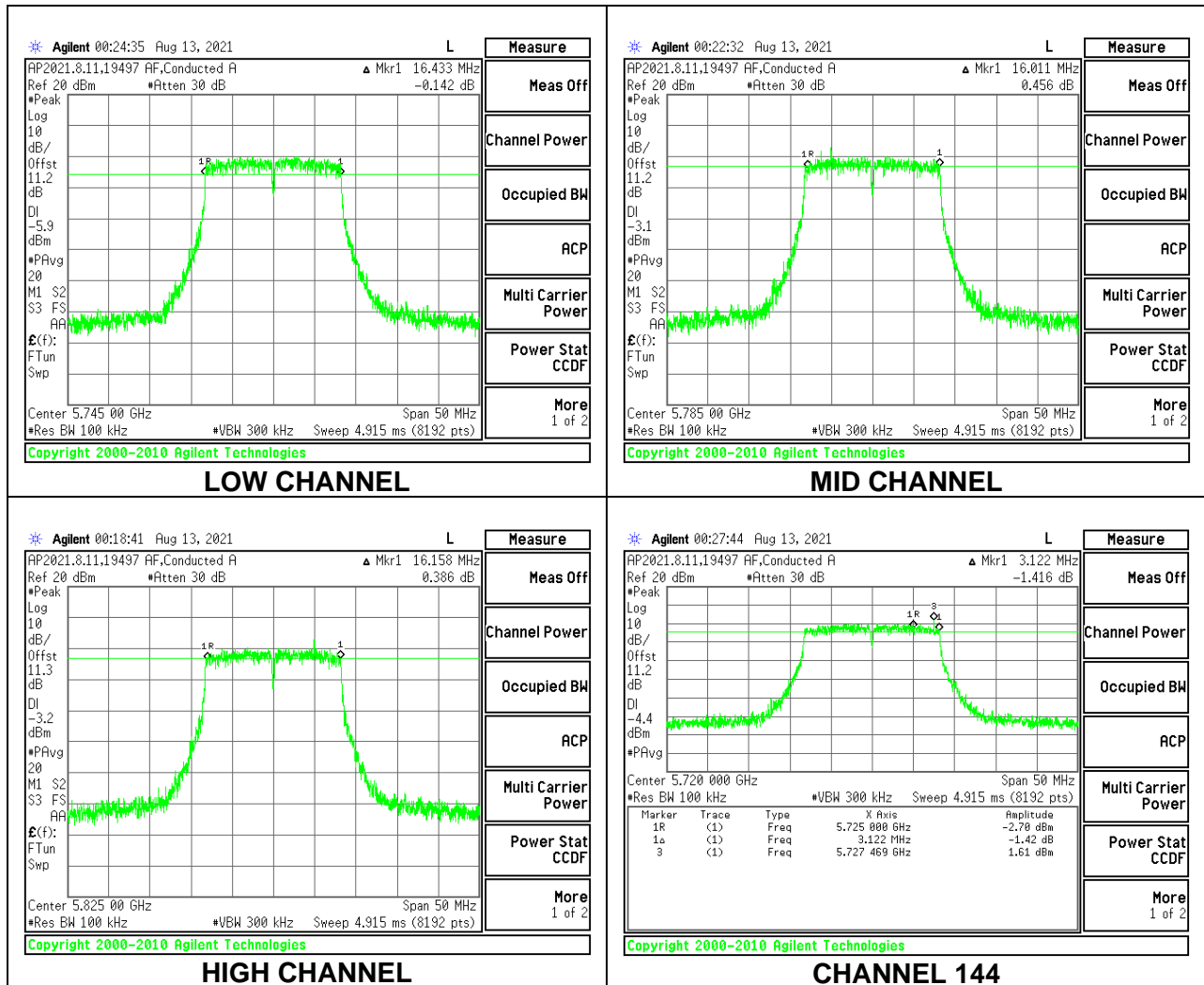
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

9.4.1. 802.11a MODE IN THE 5.8 GHz BAND

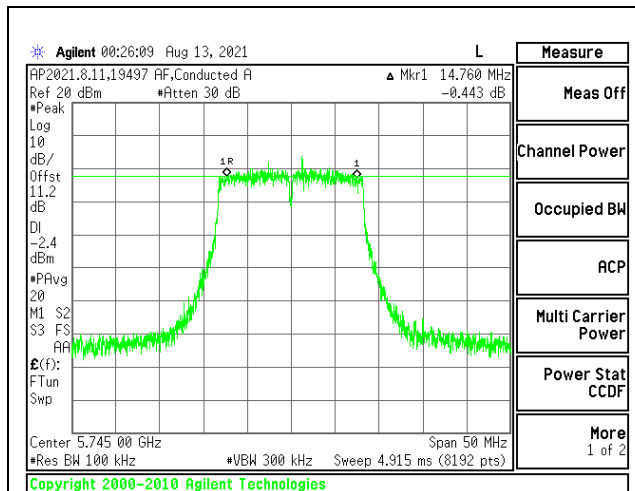
1TX Antenna 1 MODE

Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5745	16.433	0.5
Mid	5785	16.011	0.5
High	5825	16.158	0.5
144	5720	3.122	0.5

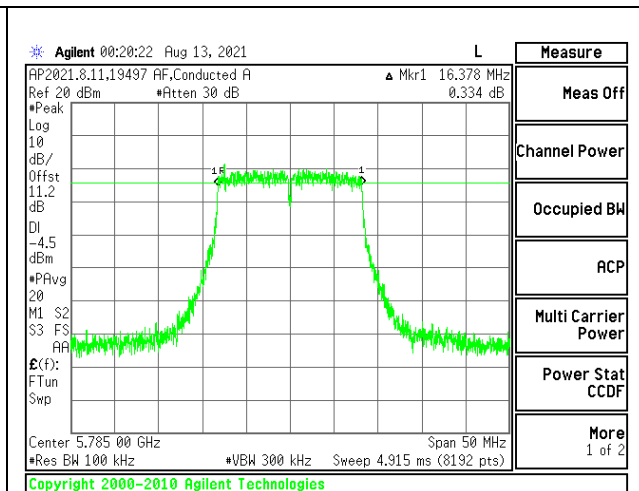


1TX Antenna 2 MODE

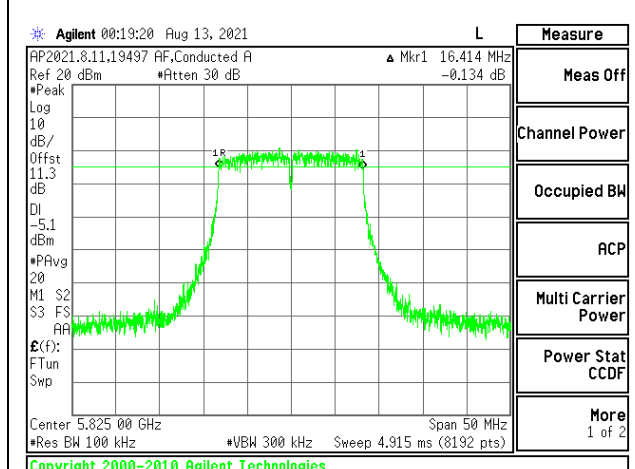
Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5745	14.760	0.5
Mid	5785	16.378	0.5
High	5825	16.414	0.5
144	5720	3.146	0.5



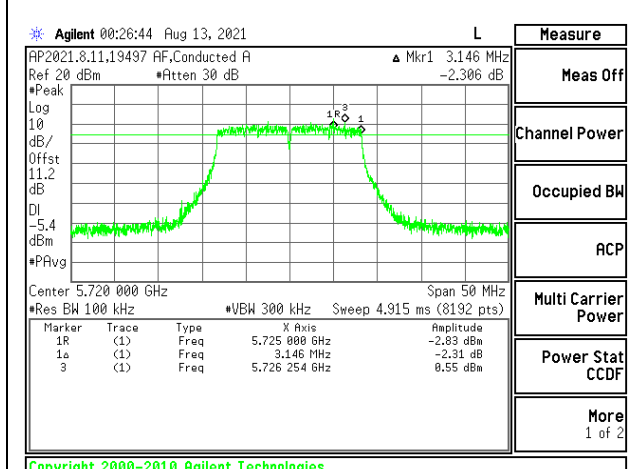
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

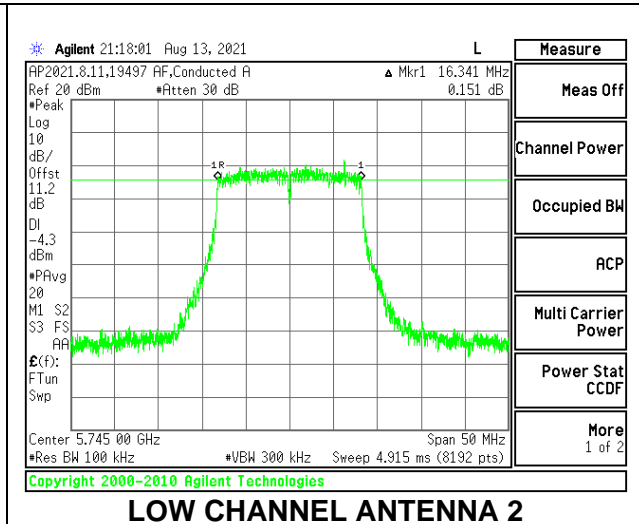
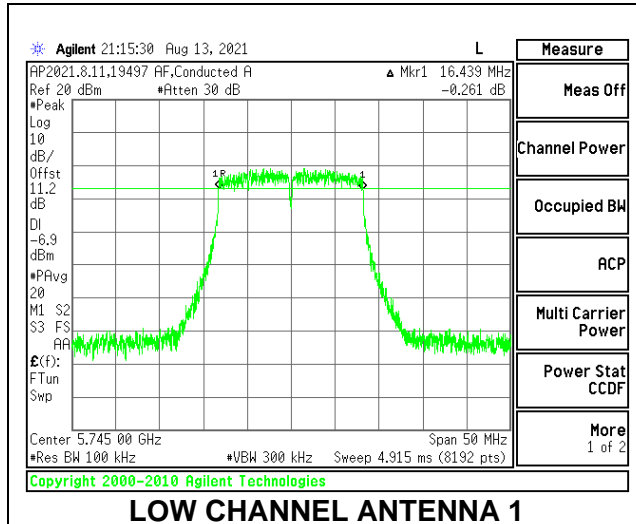


CHANNEL 144

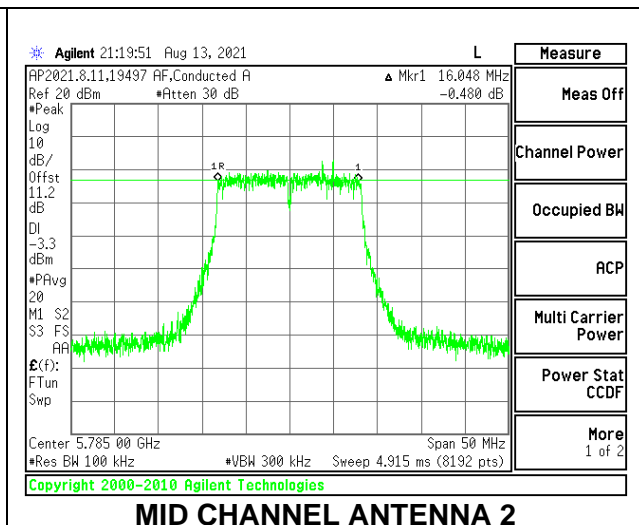
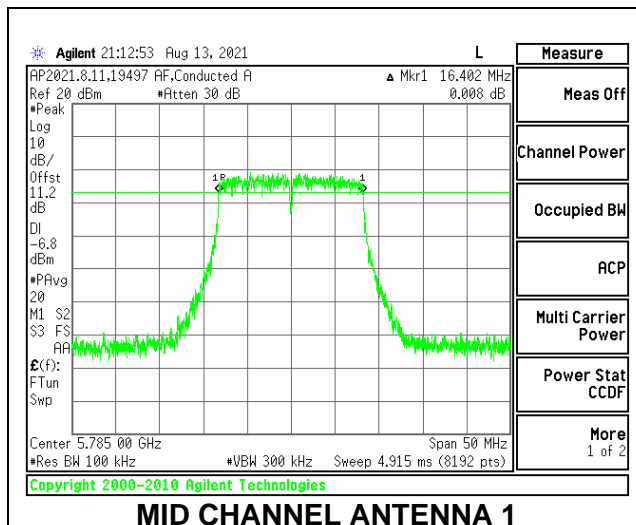
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 1 (MHz)	6 dB BW Antenna 2 (MHz)	Minimum Limit (MHz)
Low	5745	16.439	16.341	0.5
Mid	5785	16.402	16.048	0.5
High	5825	16.317	16.323	0.5
144	5720	3.219	3.189	0.5

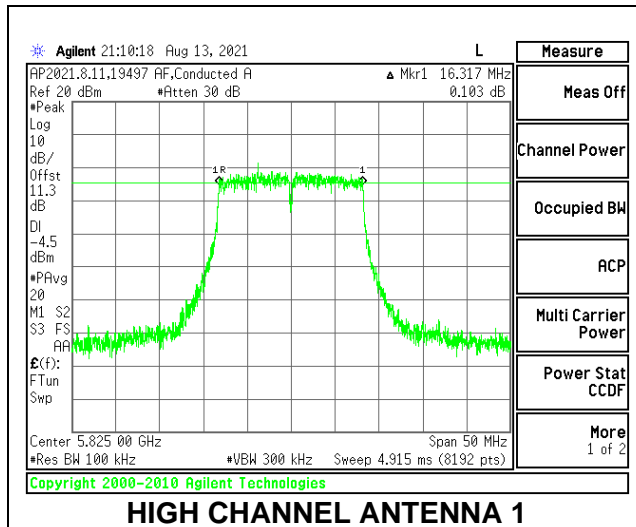
LOW CHANNEL



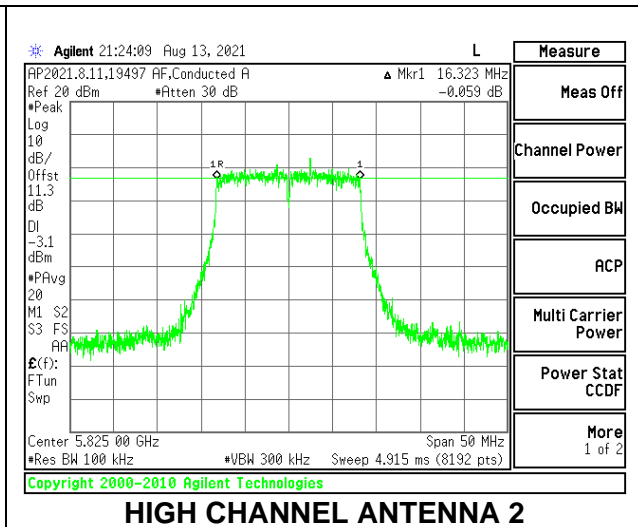
MID CHANNEL



HIGH CHANNEL

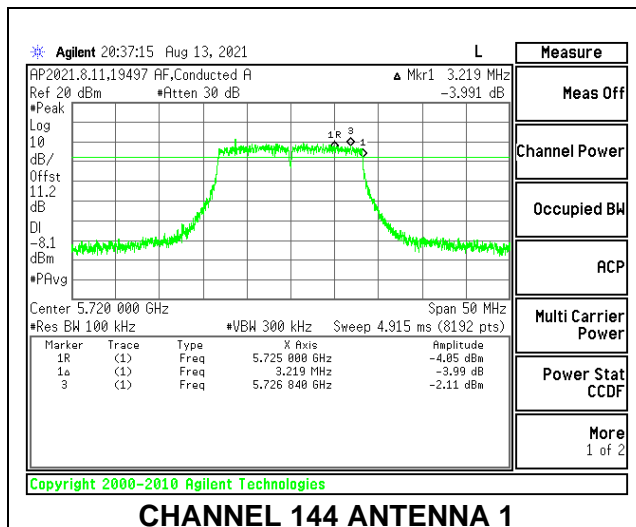


HIGH CHANNEL ANTENNA 1

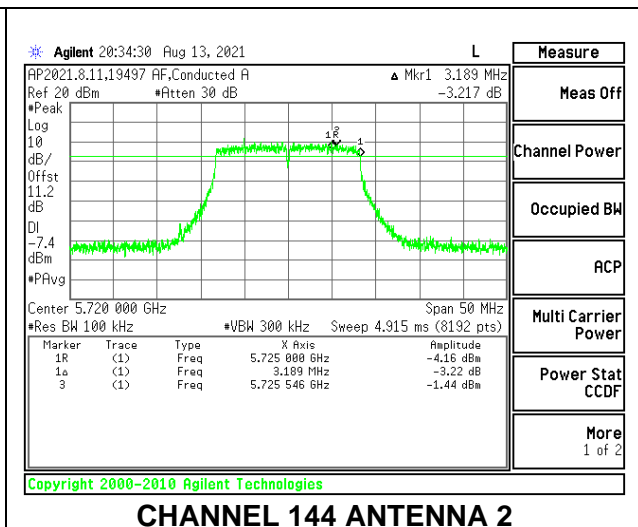


HIGH CHANNEL ANTENNA 2

CHANNEL 144



CHANNEL 144 ANTENNA 1

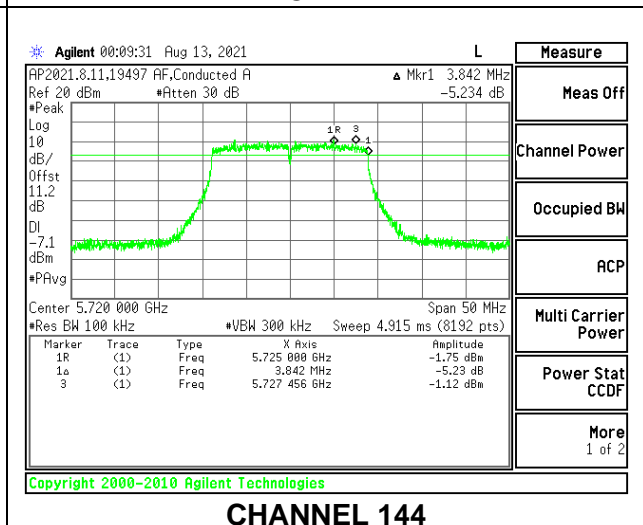
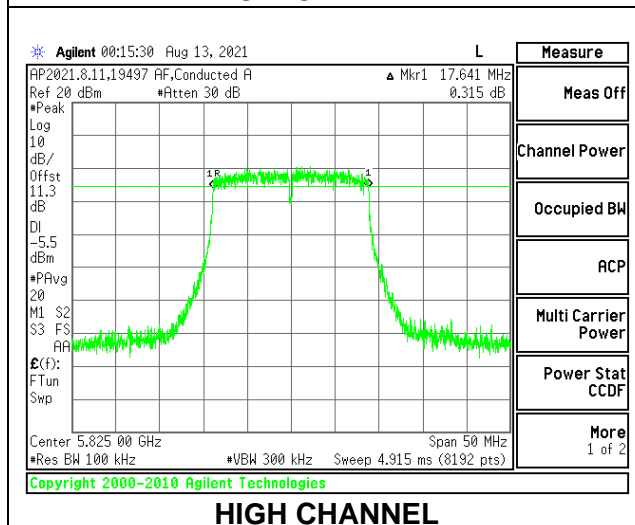
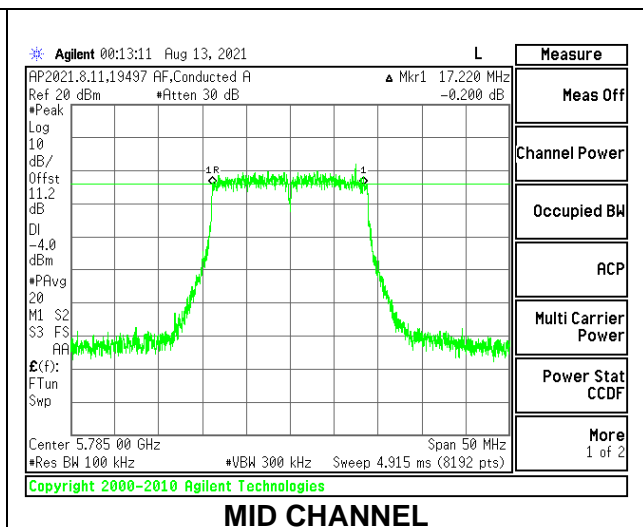
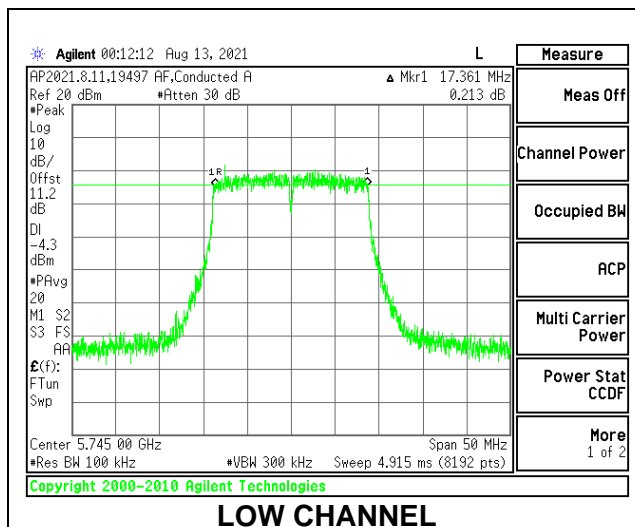


CHANNEL 144 ANTENNA 2

9.4.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

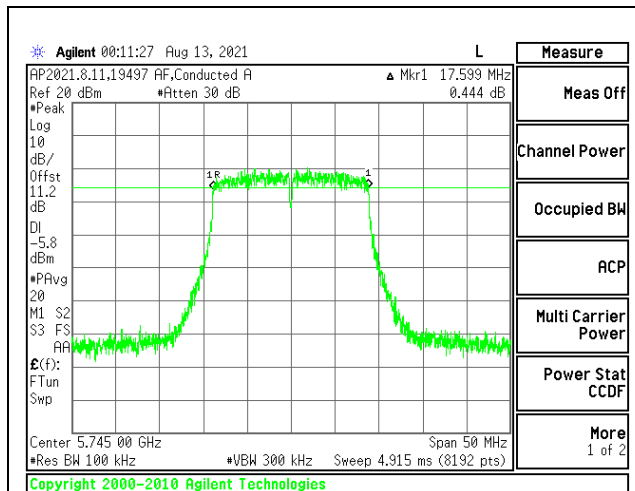
1TX Antenna 1 MODE

Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5745	17.361	0.5
Mid	5785	17.220	0.5
High	5825	17.641	0.5
144	5720	3.842	0.5

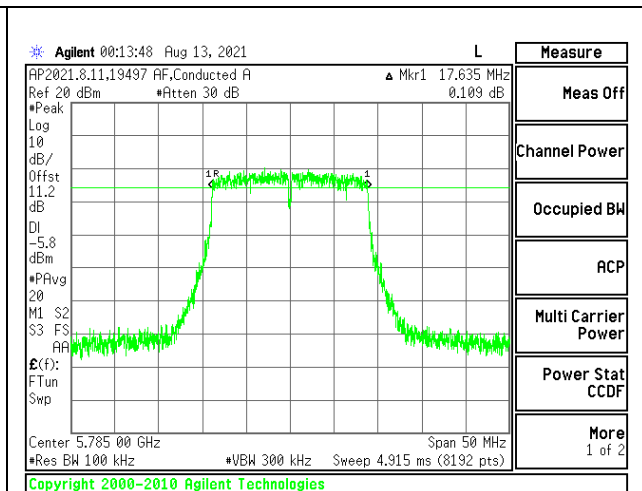


1TX Antenna 2 MODE

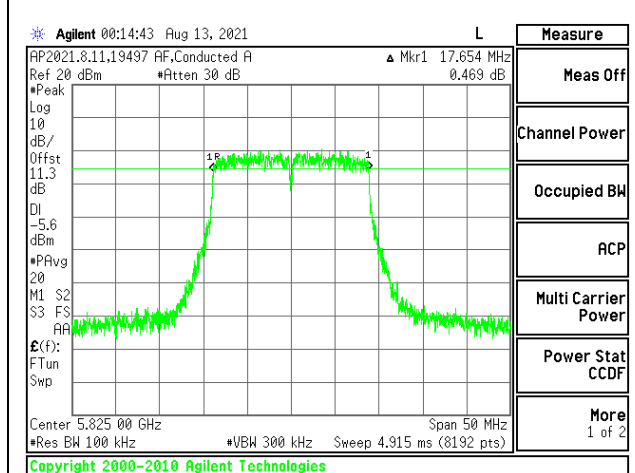
Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5745	17.599	0.5
Mid	5785	17.635	0.5
High	5825	17.654	0.5
144	5720	3.842	0.5



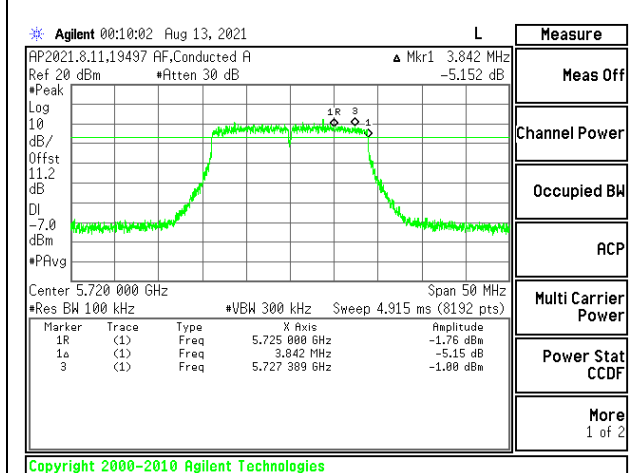
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

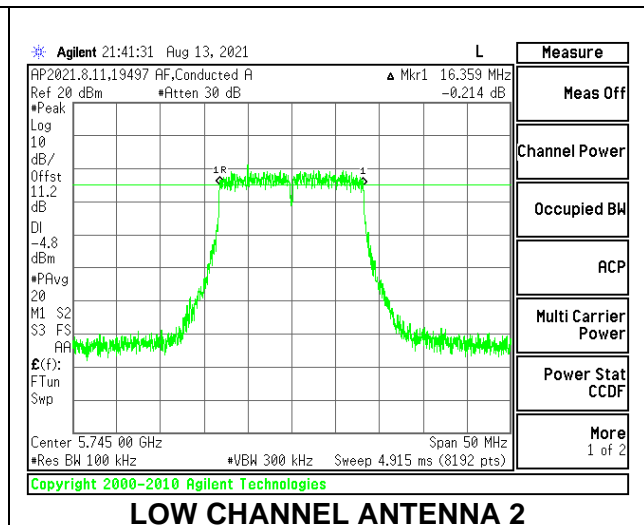
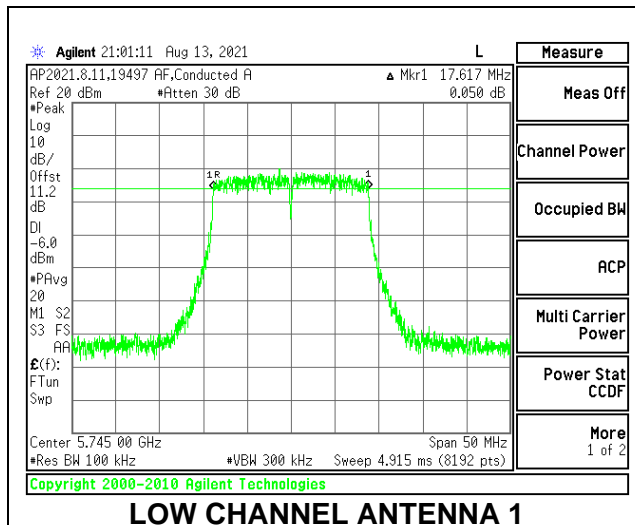


CHANNEL 144

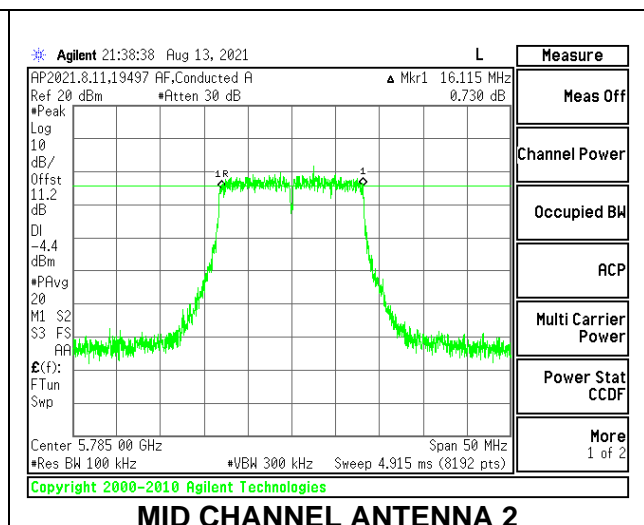
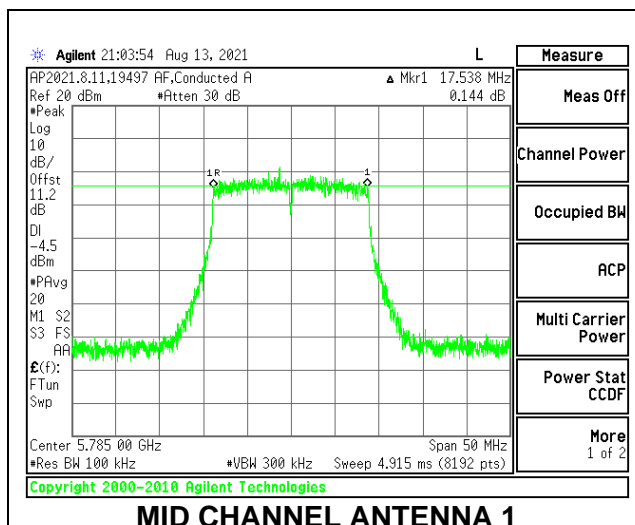
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 1 (MHz)	6 dB BW Antenna 2 (MHz)	Minimum Limit (MHz)
Low	5745	17.617	16.359	0.5
Mid	5785	17.538	16.115	0.5
High	5825	16.414	16.359	0.5
144	5720	3.775	3.830	0.5

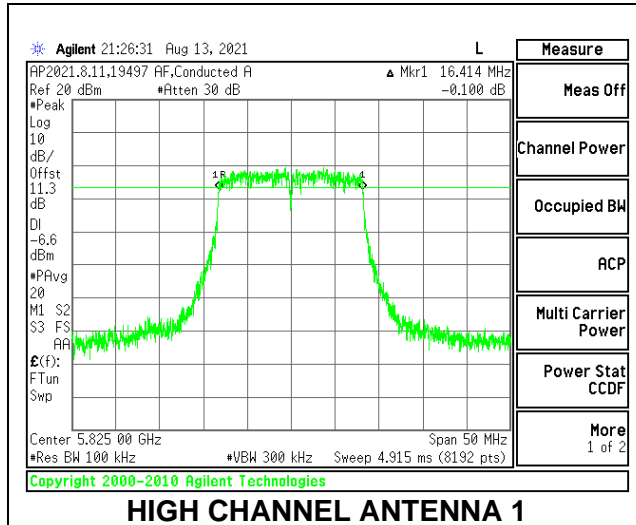
LOW CHANNEL



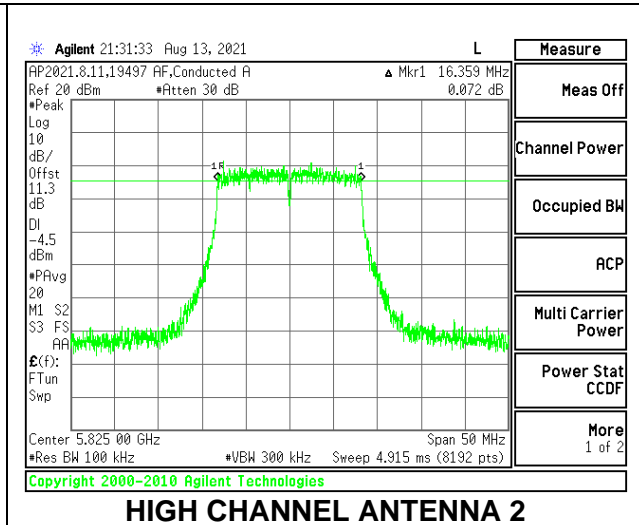
MID CHANNEL



HIGH CHANNEL

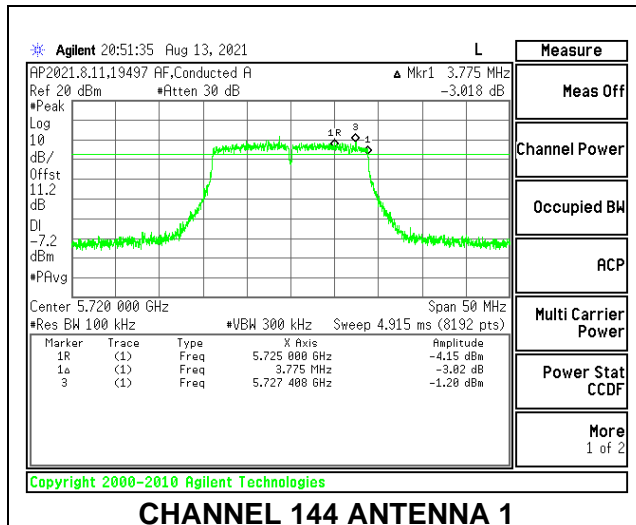


HIGH CHANNEL ANTENNA 1

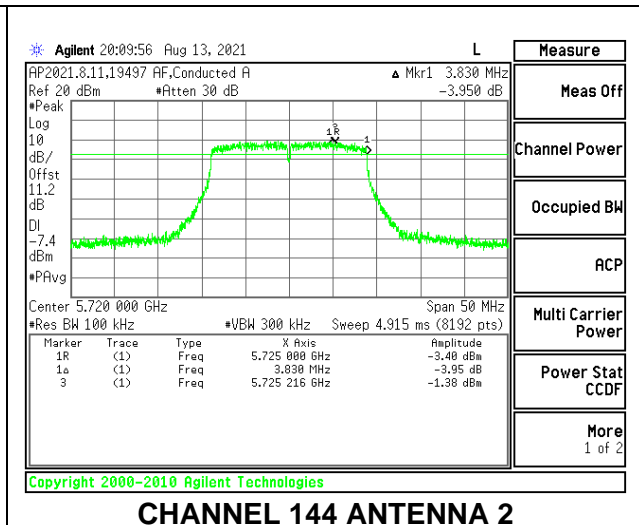


HIGH CHANNEL ANTENNA 2

CHANNEL 144



CHANNEL 144 ANTENNA 1

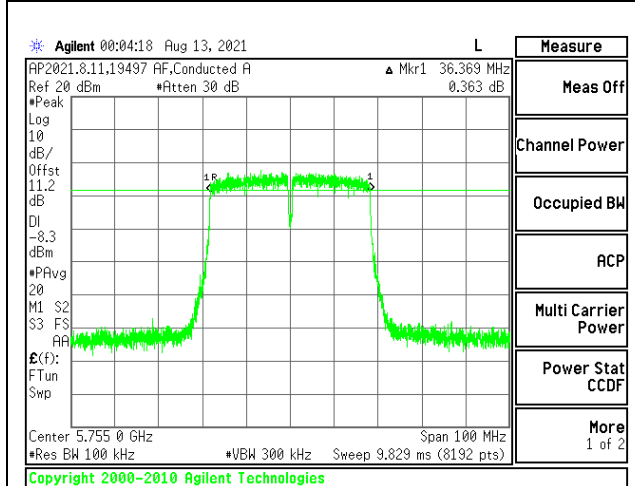


CHANNEL 144 ANTENNA 2

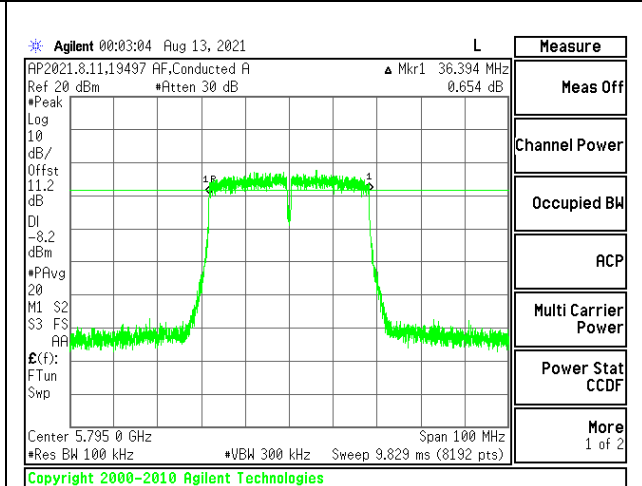
9.4.3. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

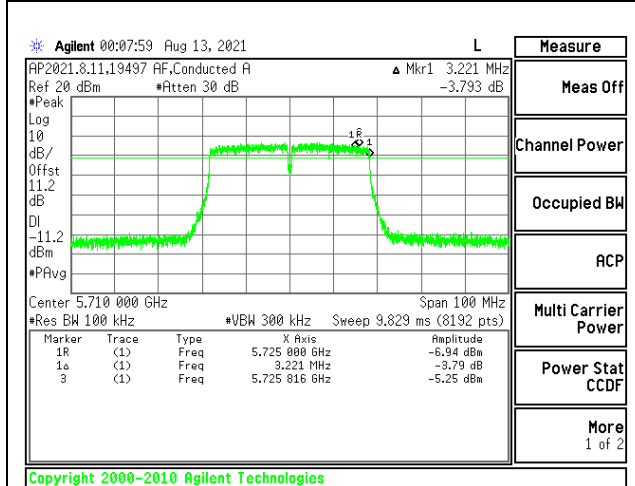
Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5755	36.369	0.5
High	5795	36.394	0.5
142	5710	3.221	0.5



LOW CHANNEL



HIGH CHANNEL

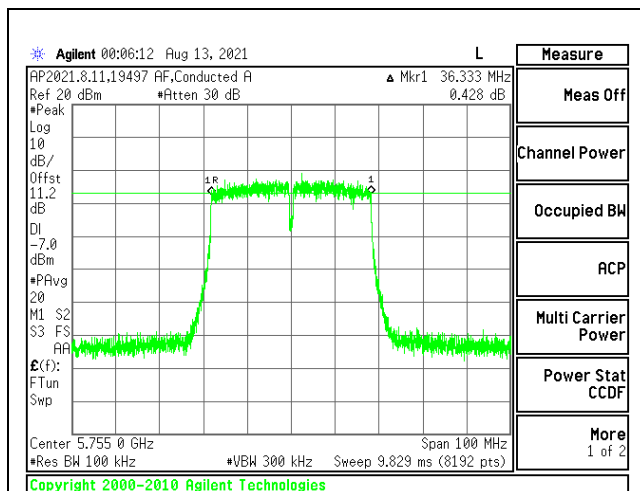


CHANNEL 142

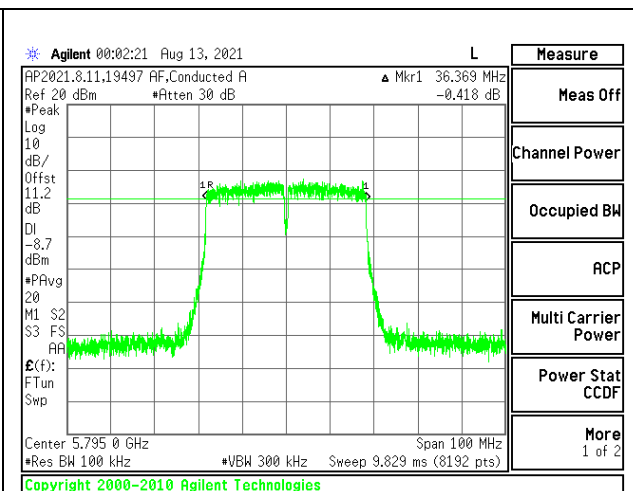
Intentionally left blank

1TX Antenna 2 MODE

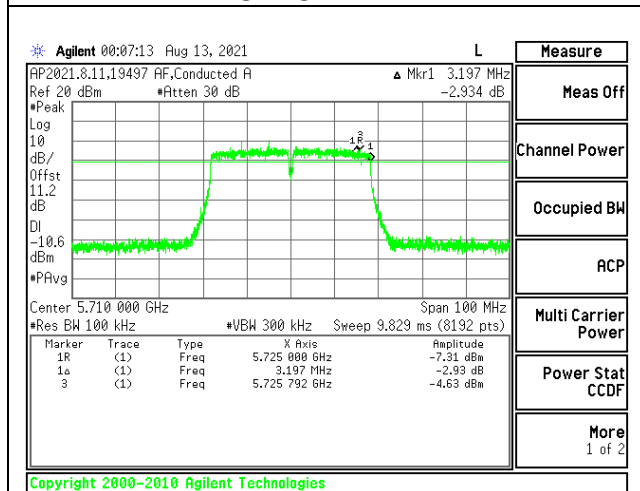
Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5755	36.333	0.5
High	5795	36.369	0.5
142	5710	3.197	0.5



LOW CHANNEL



HIGH CHANNEL



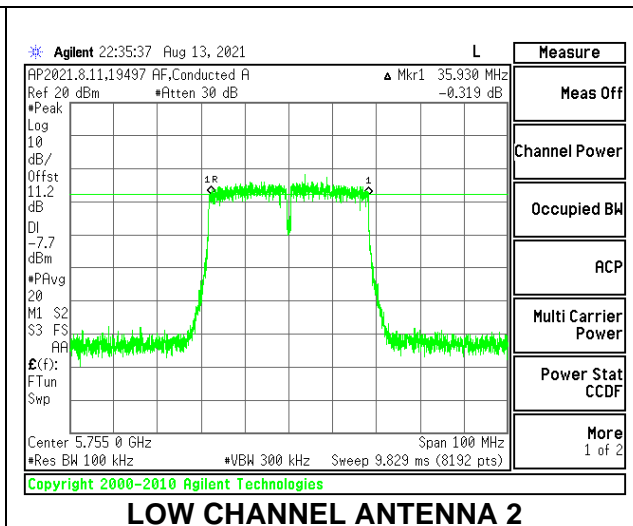
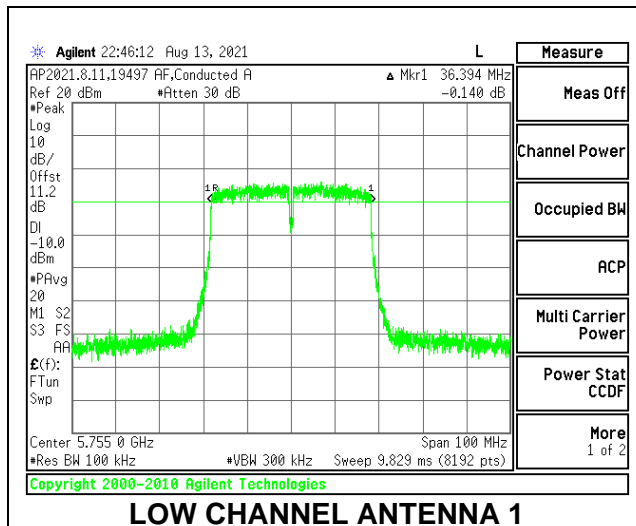
CHANNEL 142

Intentionally left blank

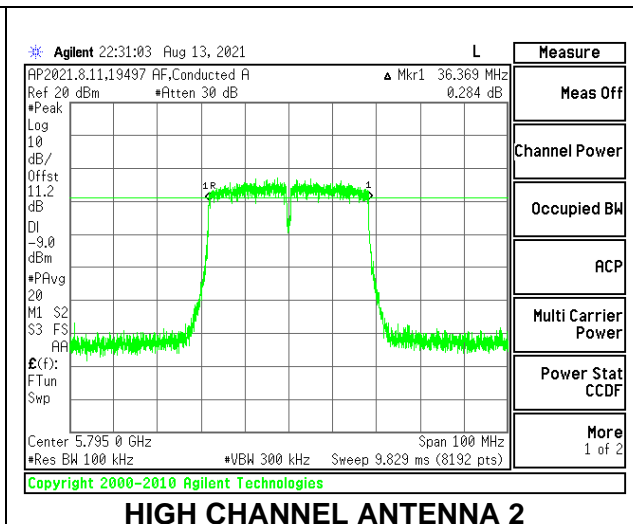
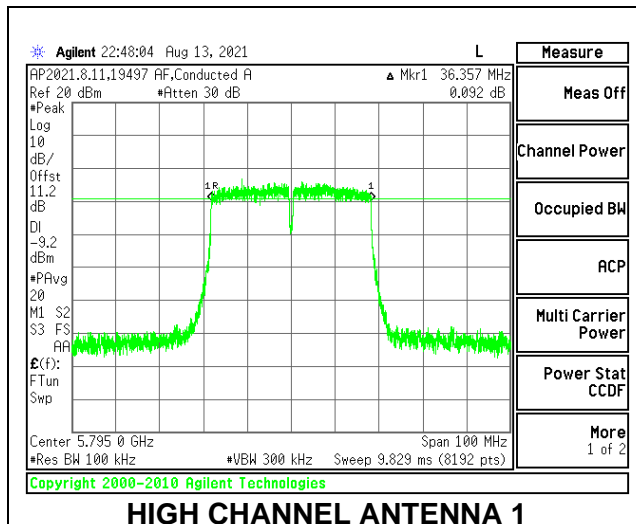
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 1 (MHz)	6 dB BW Antenna 2 (MHz)	Minimum Limit (MHz)
Low	5755	36.394	35.930	0.5
High	5795	36.357	36.369	0.5
142	5710	3.197	3.209	0.5

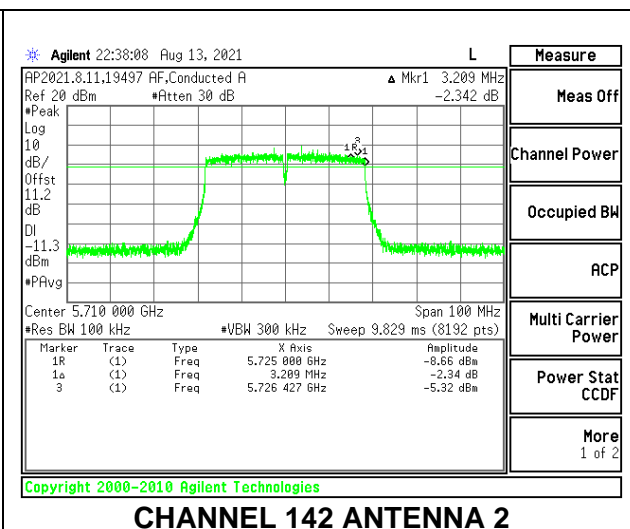
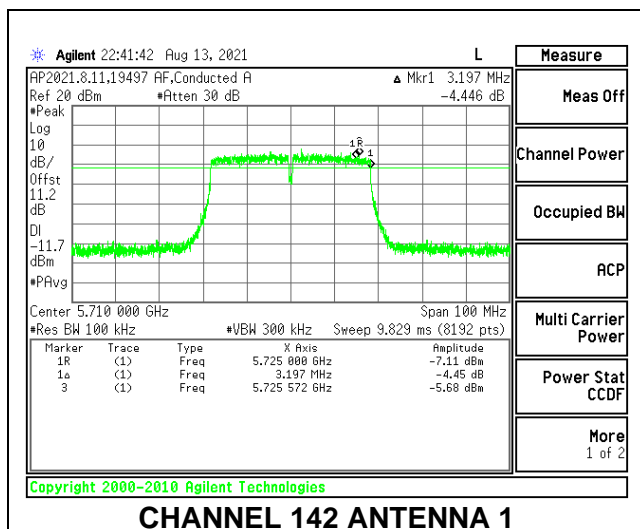
LOW CHANNEL



HIGH CHANNEL



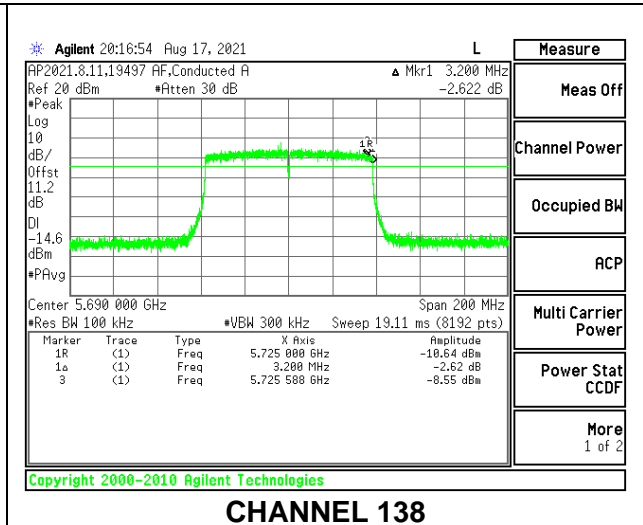
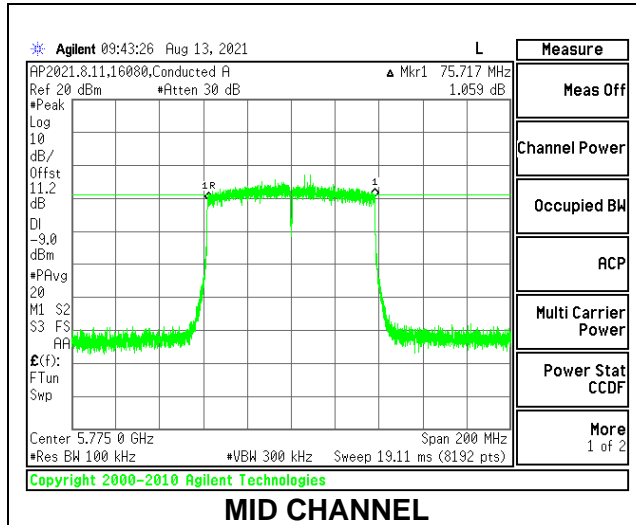
CHANNEL 142



9.4.4. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

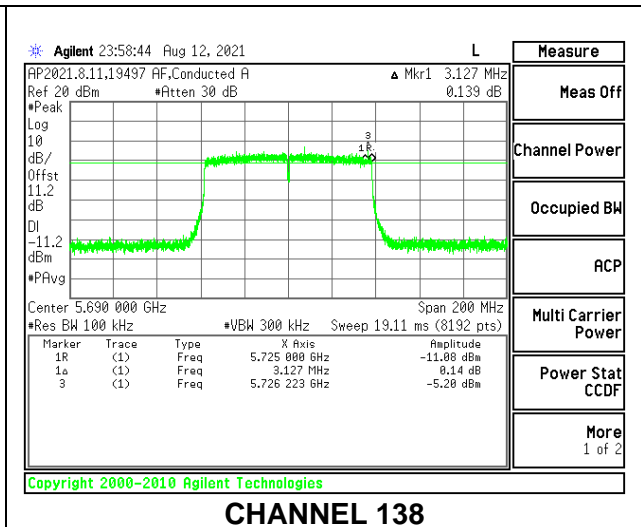
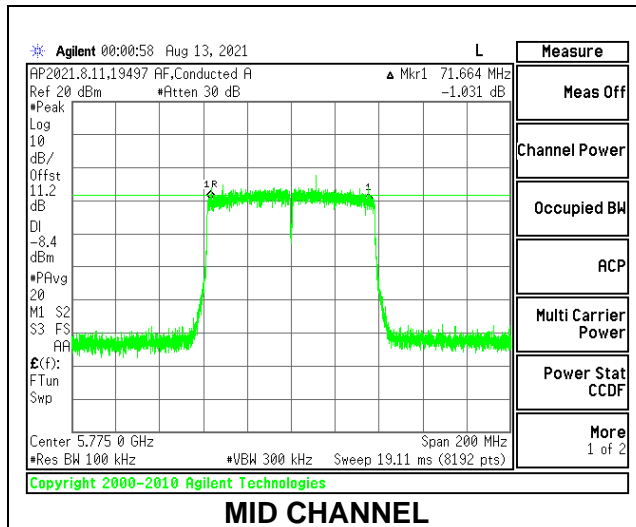
1TX Antenna 1 MODE

Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Mid	5775	75.717	0.5
138	5690	3.200	0.5



1TX Antenna 2 MODE

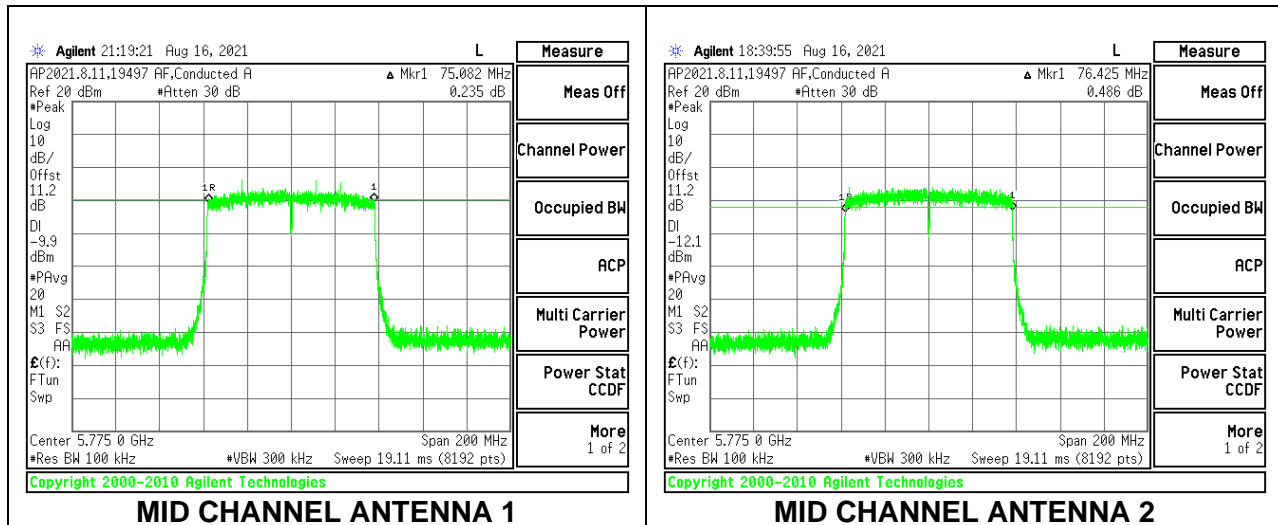
Channel	Frequency (MHz)	6 dB BW (MHz)	Minimum Limit (MHz)
Mid	5775	71.664	0.5
138	5690	3.127	0.5



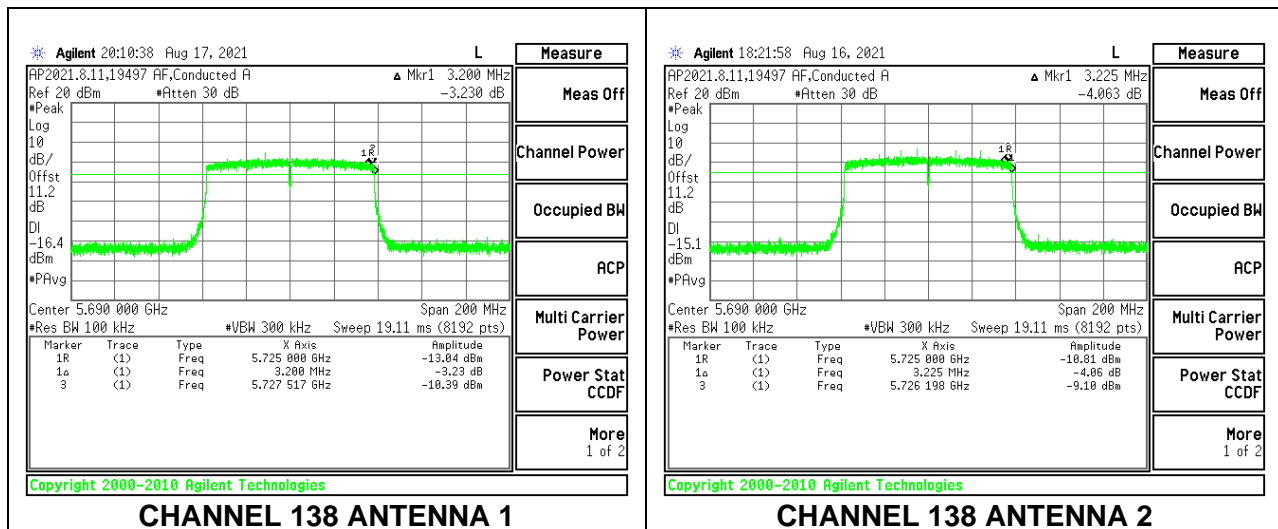
2TX Antenna 1 + Antenna 2 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 1 (MHz)	6 dB BW Antenna 2 (MHz)	Minimum Limit (MHz)
Mid	5775	75.082	76.425	0.5
138	5690	3.200	3.225	0.5

MID CHANNEL



CHANNEL 138



9.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407(a)

Band 5.15–5.25 GHz

(1)(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2)Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

(3)(i)Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.15-5.25 GHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-1) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes.

For TxBF, Tx chains are correlated for power and correlated for PSD.

The directional gains are as follows:

U-NII Band	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
UNII-1	3.3	2.5	2.92	5.92
UNII-2A	3.3	2.9	3.10	6.11
UNII-2C	3.5	4.5	4.03	7.02
UNII-3	3.9	4.5	4.21	7.22

RESULTS

9.5.1. 802.11a MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	3.30	24.00	11.00
Mid	5200	3.30	24.00	11.00
High	5240	3.30	24.00	11.00

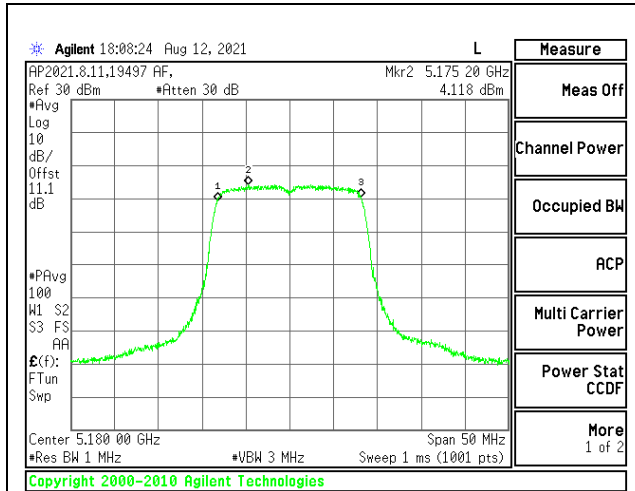
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

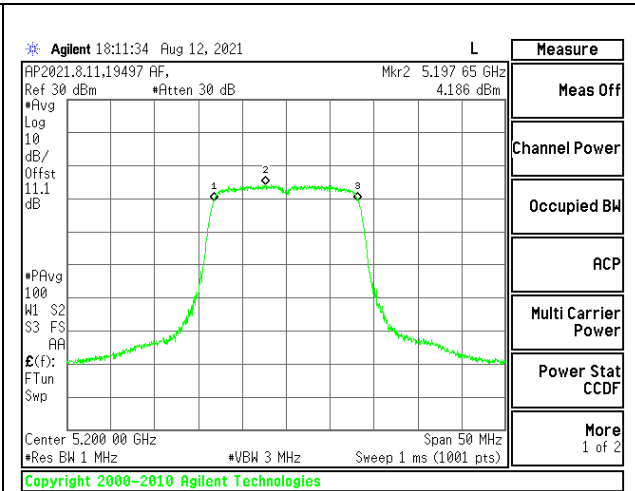
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.21	14.21	24.00	-9.79
Mid	5200	14.45	14.45	24.00	-9.55
High	5240	14.36	14.36	24.00	-9.64

PSD Results

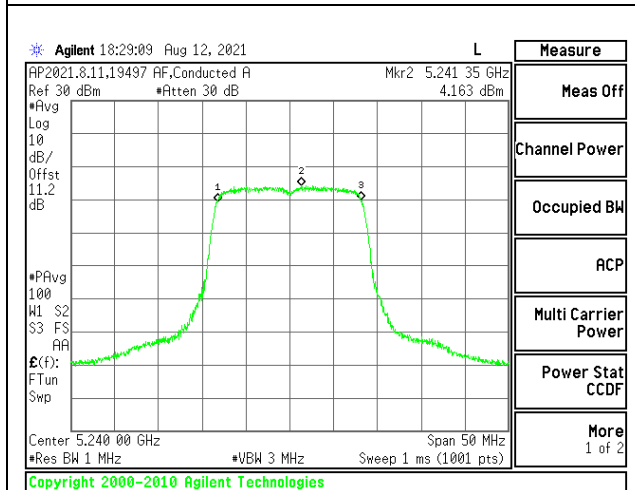
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	4.12	4.12	11.00	-6.88
Mid	5200	4.19	4.19	11.00	-6.81
High	5240	4.16	4.16	11.00	-6.84



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

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1TX Antenna 1 MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	16.388	3.30	22.15	18.85	10.00	6.70
Mid	5200	16.427	3.30	22.16	18.86	10.00	6.70
High	5240	16.401	3.30	22.15	18.85	10.00	6.70

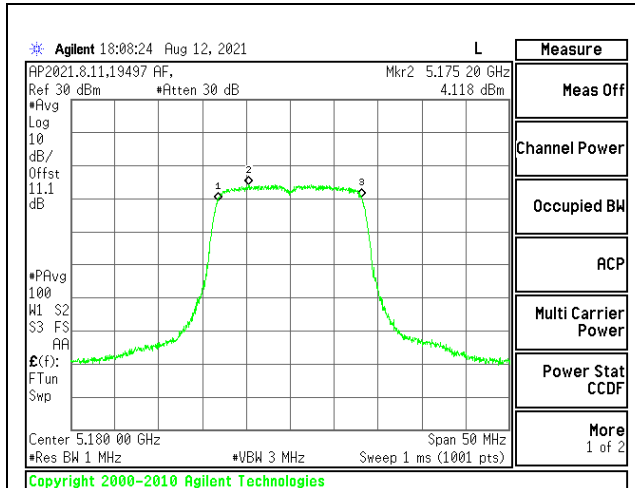
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

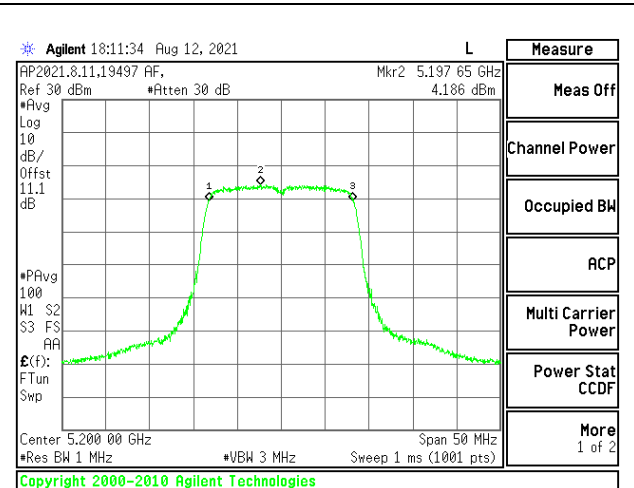
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.21	14.21	18.85	-4.64
Mid	5200	14.45	14.45	18.86	-4.41
High	5240	14.36	14.36	18.85	-4.49

PSD Results

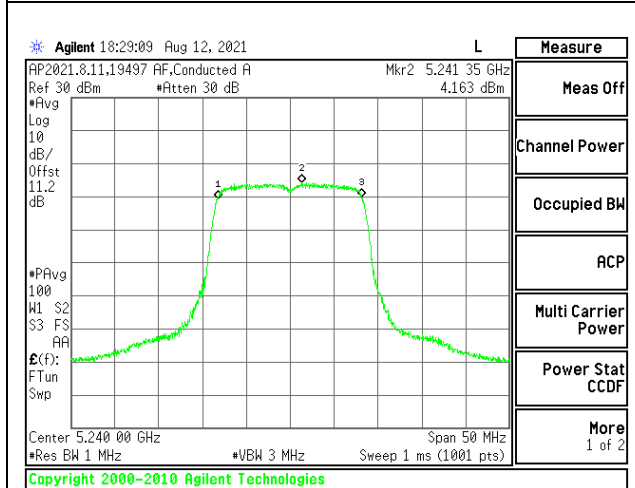
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	4.12	4.12	6.70	-2.58
Mid	5200	4.19	4.19	6.70	-2.51
High	5240	4.16	4.16	6.70	-2.54



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

1TX Antenna 2 MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	2.50	24.00	11.00
Mid	5200	2.50	24.00	11.00
High	5240	2.50	24.00	11.00

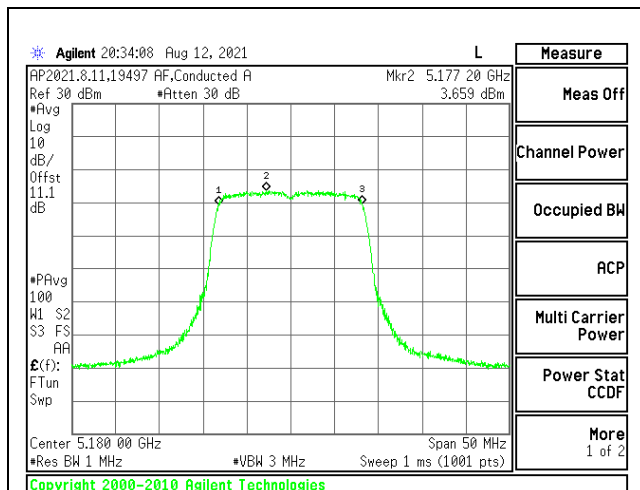
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

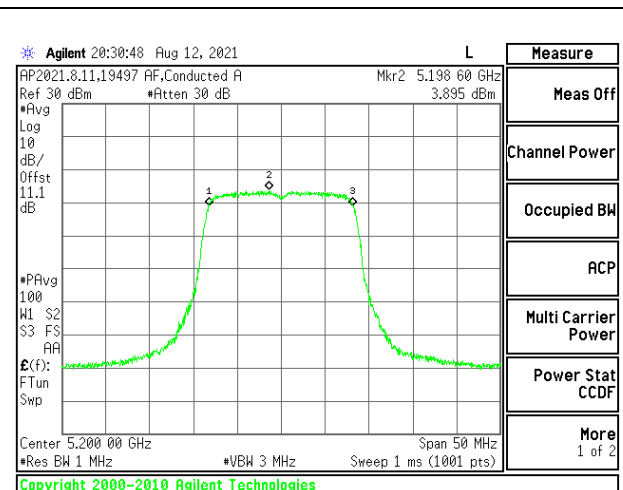
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.12	14.12	24.00	-9.88
Mid	5200	14.05	14.05	24.00	-9.95
High	5240	14.13	14.13	24.00	-9.87

PSD Results

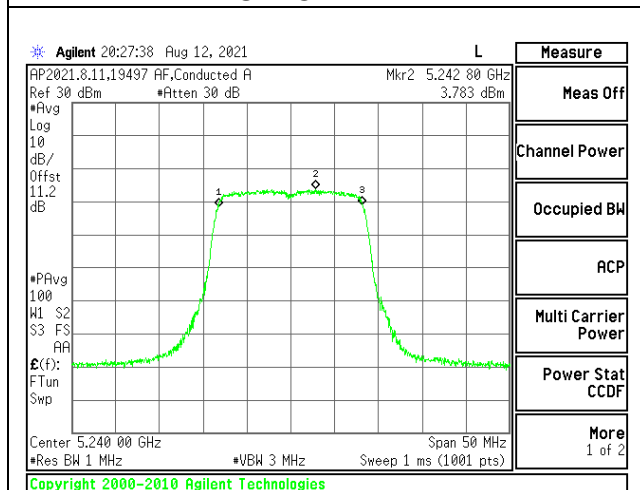
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.66	3.66	11.00	-7.34
Mid	5200	3.90	3.90	11.00	-7.11
High	5240	3.78	3.78	11.00	-7.22



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

1TX Antenna 2 MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	16.374	2.50	22.14	19.64	10.00	7.50
Mid	5200	16.380	2.50	22.14	19.64	10.00	7.50
High	5240	16.391	2.50	22.15	19.65	10.00	7.50

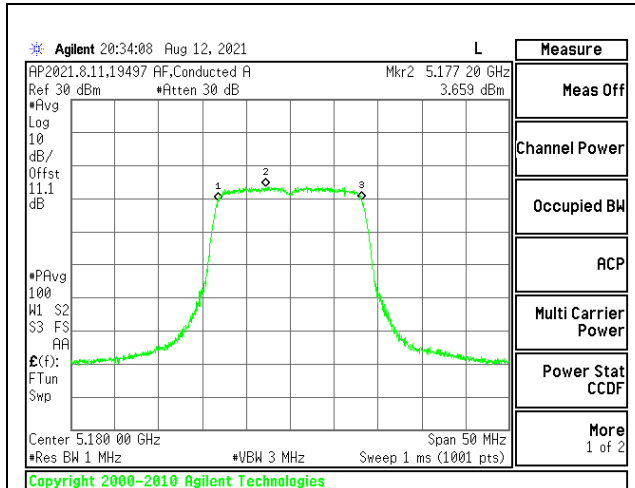
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

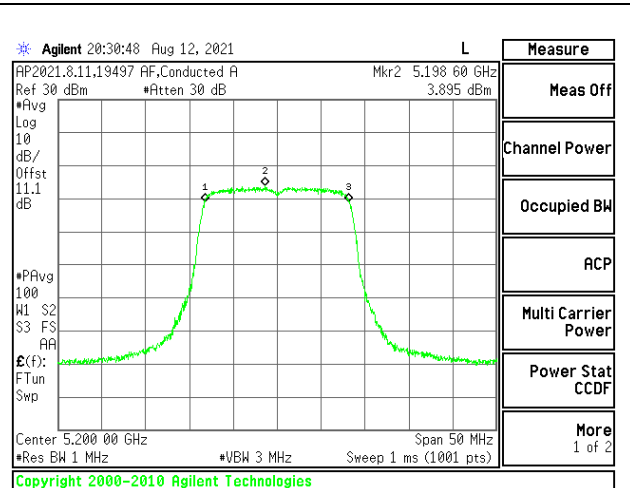
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.12	14.12	19.64	-5.52
Mid	5200	14.05	14.05	19.64	-5.59
High	5240	14.13	14.13	19.65	-5.52

PSD Results

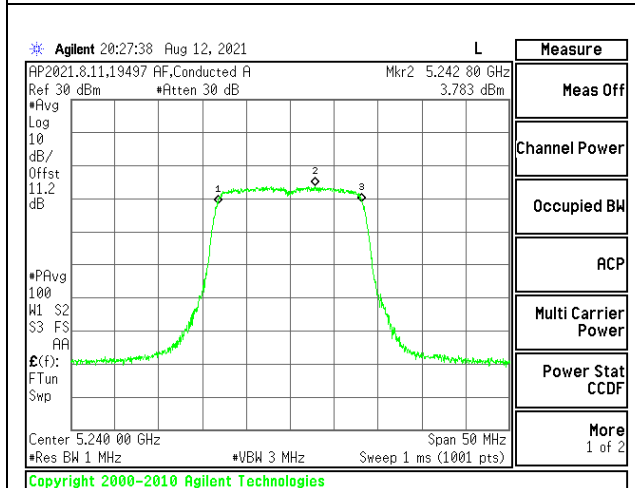
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.66	3.66	7.50	-3.84
Mid	5200	3.90	3.90	7.50	-3.61
High	5240	3.78	3.78	7.50	-3.72



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	2.92	5.92	24.00	11.00
Mid	5200	2.92	5.92	24.00	11.00
High	5240	2.92	5.92	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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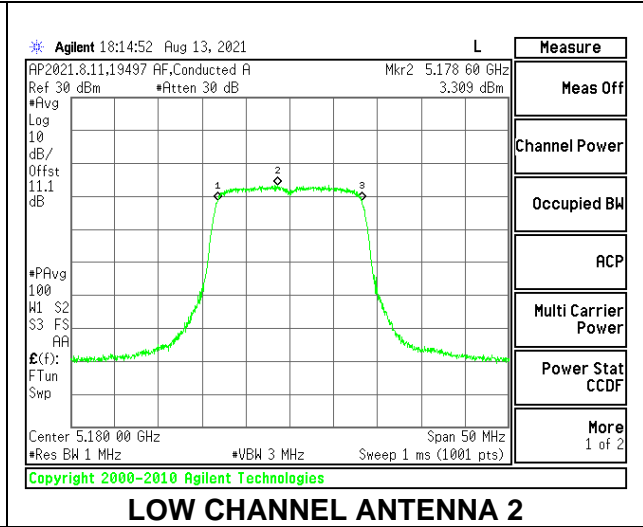
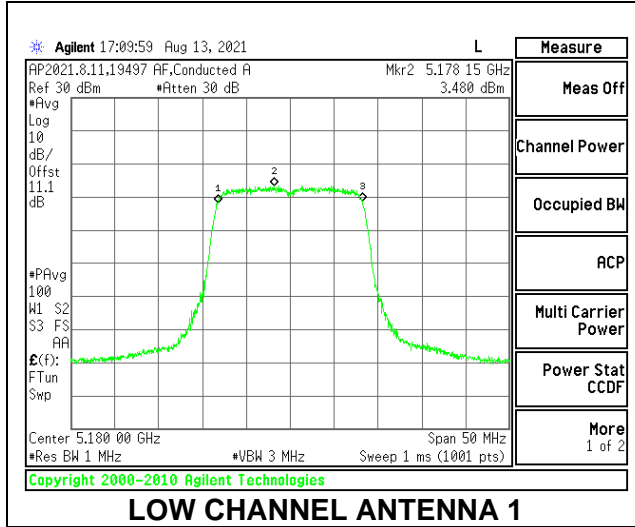
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.45	13.5	16.49	24.00	-7.51
Mid	5200	13.44	13.8	16.63	24.00	-7.37
High	5240	13.89	13.99	16.95	24.00	-7.05

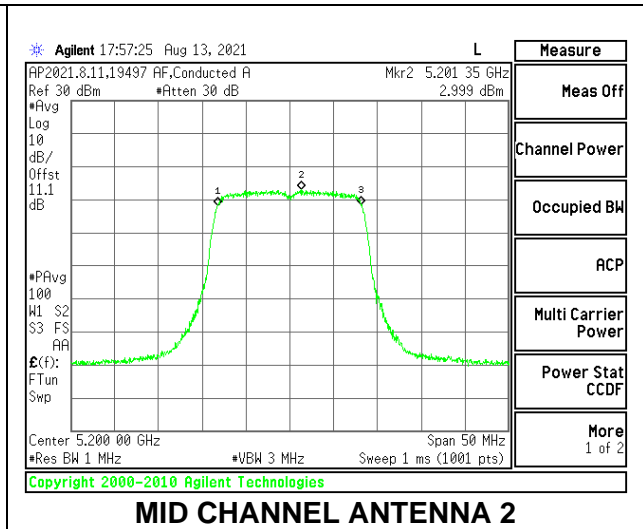
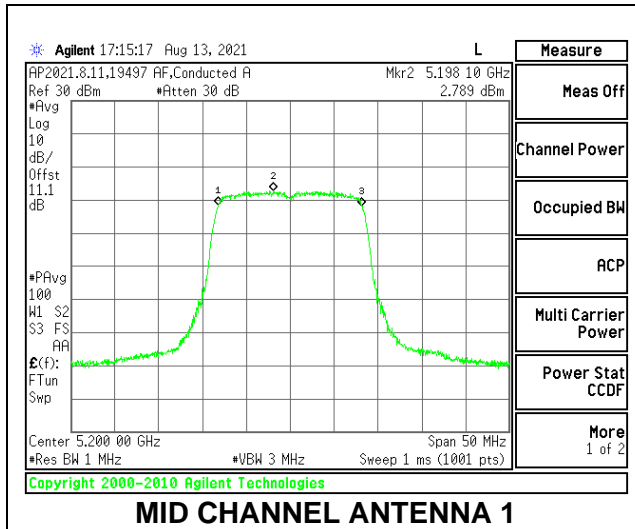
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.48	3.31	6.41	11.00	-4.59
Mid	5200	2.79	3.00	5.91	11.00	-5.09
High	5240	3.30	4.02	6.68	11.00	-4.32

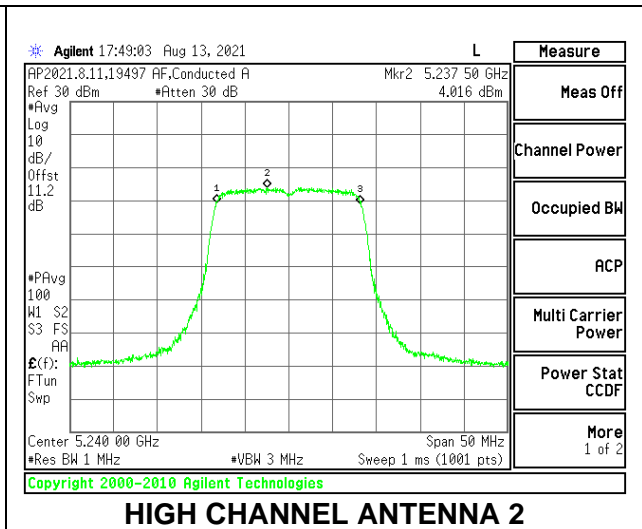
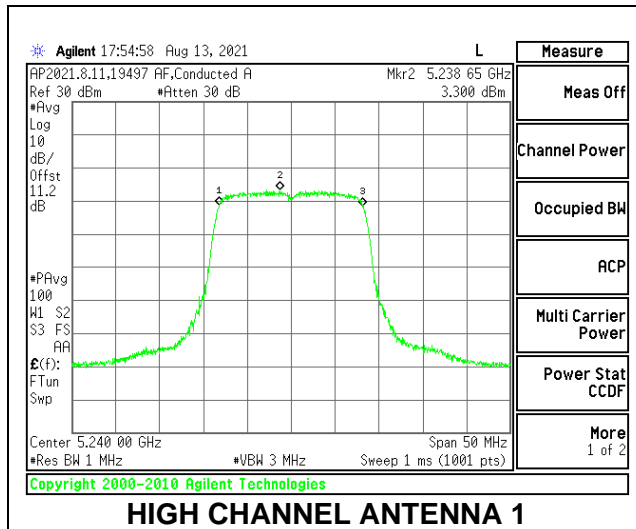
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	16.437	2.92	5.92	22.16	19.24	10.00	4.08
Mid	5200	16.352	2.92	5.92	22.14	19.22	10.00	4.08
High	5240	16.377	2.92	5.92	22.14	19.22	10.00	4.08

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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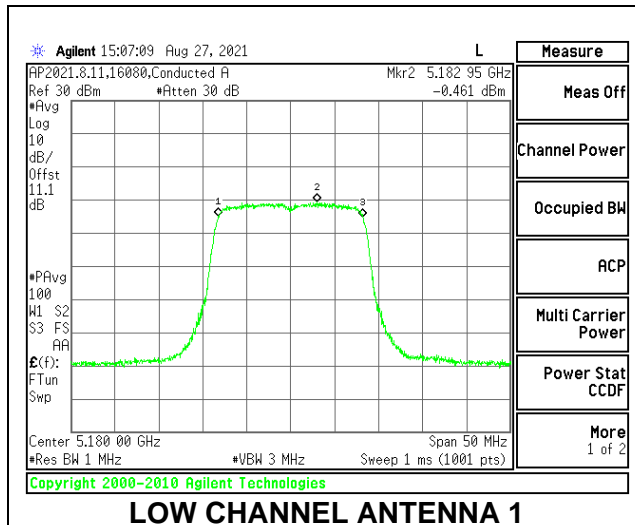
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	9.30	9.87	12.60	19.24	-6.63
Mid	5200	9.46	9.98	12.74	19.22	-6.48
High	5240	9.64	10.06	12.87	19.22	-6.36

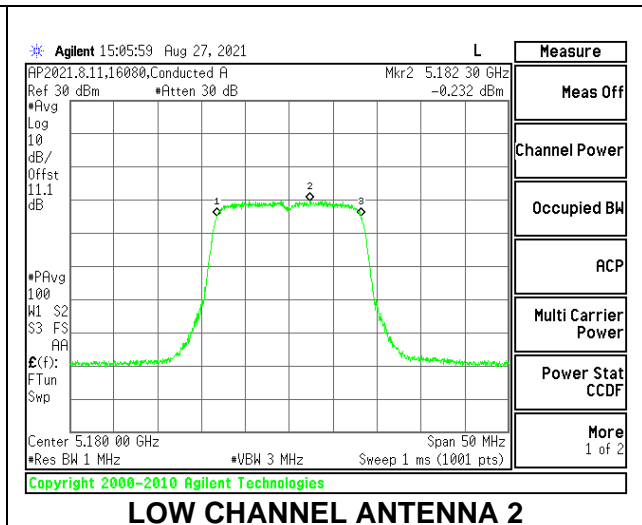
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	-0.46	-0.23	2.67	4.08	-1.41
Mid	5200	-0.60	-0.10	2.67	4.08	-1.41
High	5240	-0.42	-0.22	2.69	4.08	-1.39

LOW CHANNEL

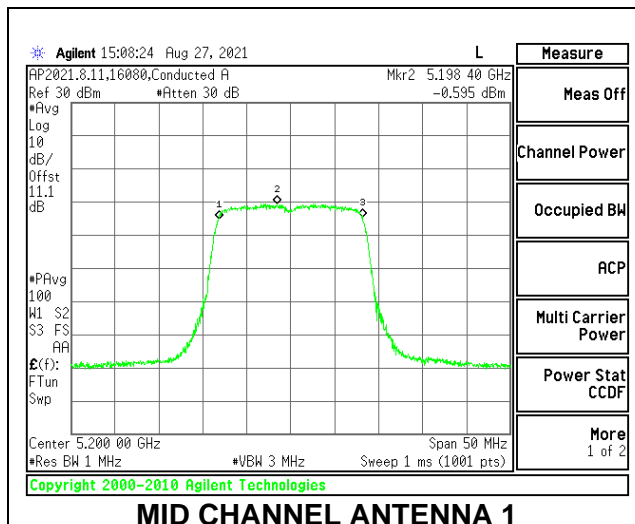


LOW CHANNEL ANTENNA 1

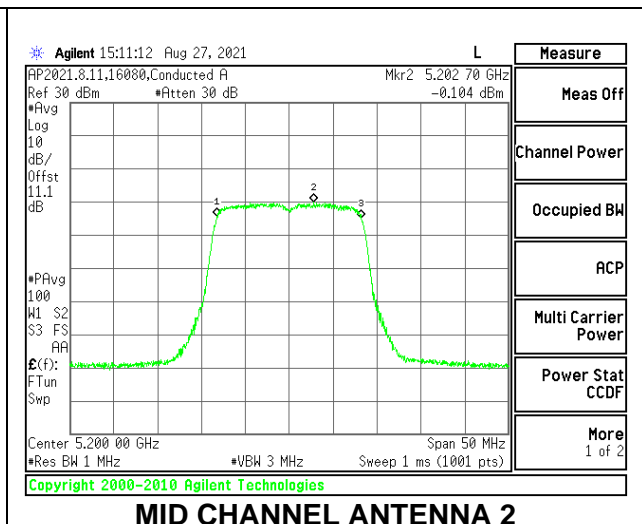


LOW CHANNEL ANTENNA 2

MID CHANNEL

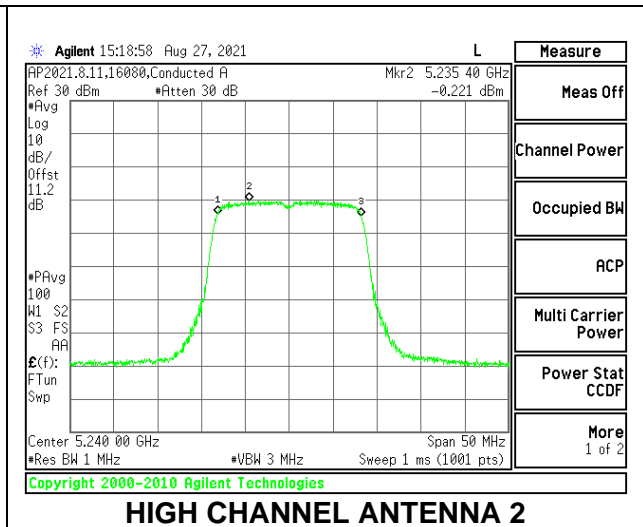
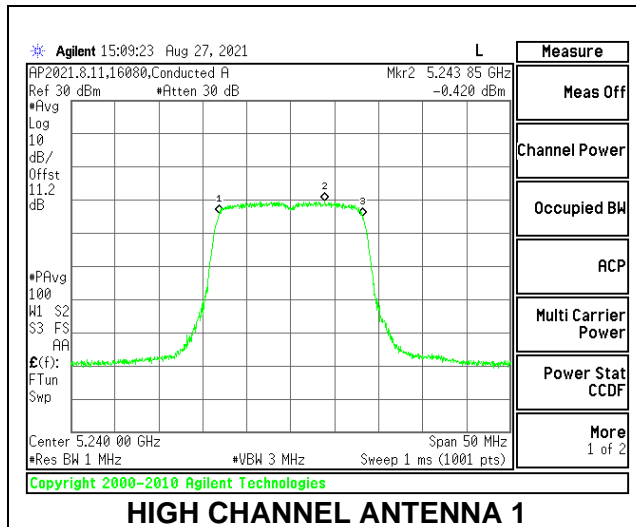


MID CHANNEL ANTENNA 1



MID CHANNEL ANTENNA 2

HIGH CHANNEL



9.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	3.30	24.00	11.00
Mid	5200	3.30	24.00	11.00
High	5240	3.30	24.00	11.00

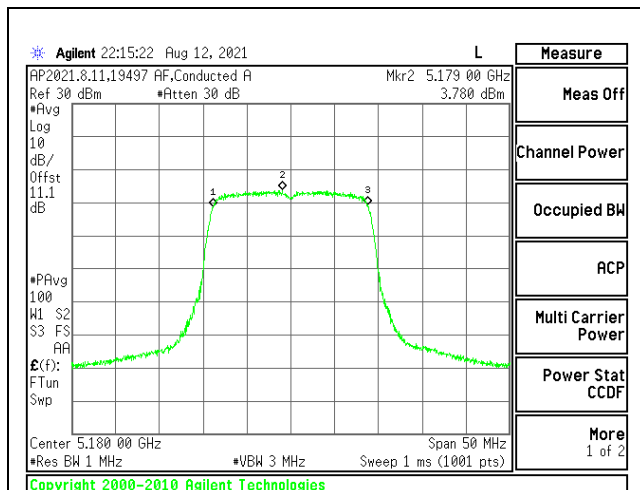
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

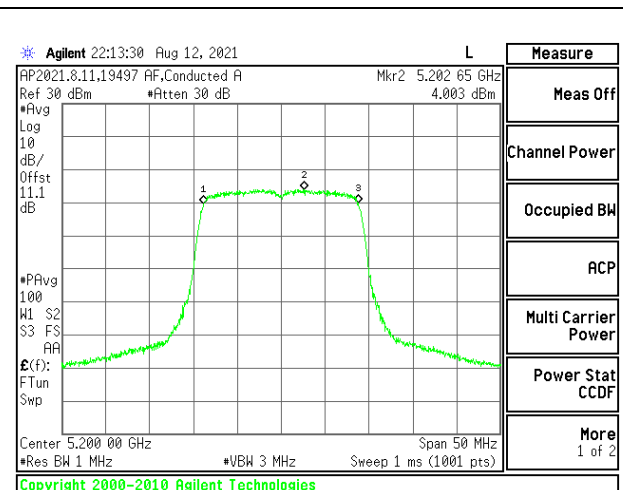
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.32	14.32	24.00	-9.68
Mid	5200	14.11	14.11	24.00	-9.89
High	5240	14.05	14.05	24.00	-9.95

PSD Results

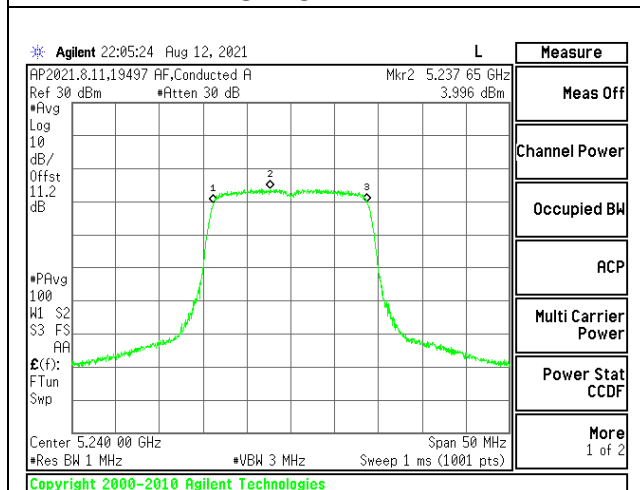
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.78	3.78	11.00	-7.22
Mid	5200	4.00	4.00	11.00	-7.00
High	5240	4.00	4.00	11.00	-7.00



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

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1TX Antenna 1 MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	17.591	3.30	22.45	19.15	10.00	6.70
Mid	5200	17.595	3.30	22.45	19.15	10.00	6.70
High	5240	17.555	3.30	22.44	19.14	10.00	6.70

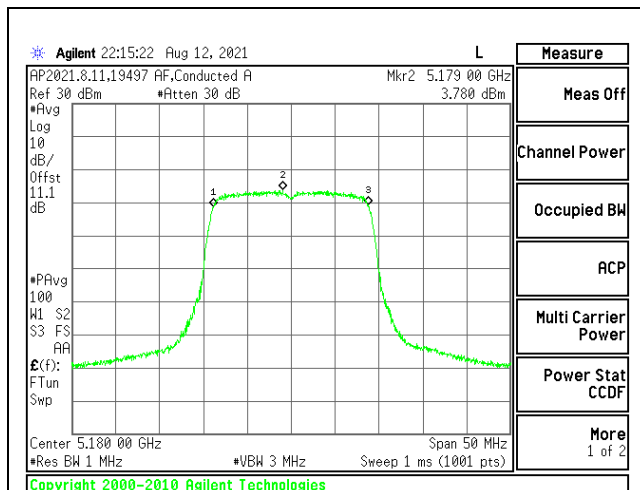
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

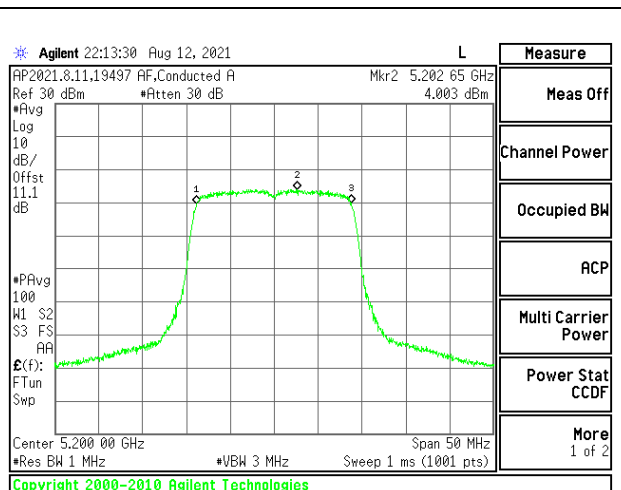
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.32	14.32	19.15	-4.83
Mid	5200	14.11	14.11	19.15	-5.04
High	5240	14.05	14.05	19.14	-5.09

PSD Results

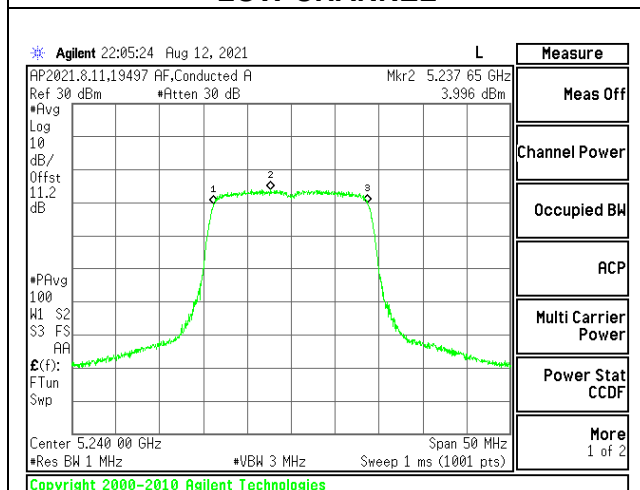
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	3.78	3.78	6.70	-2.92
Mid	5200	4.00	4.00	6.70	-2.70
High	5240	4.00	4.00	6.70	-2.70



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

1TX Antenna 2 MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	2.50	24.00	11.00
Mid	5200	2.50	24.00	11.00
High	5240	2.50	24.00	11.00

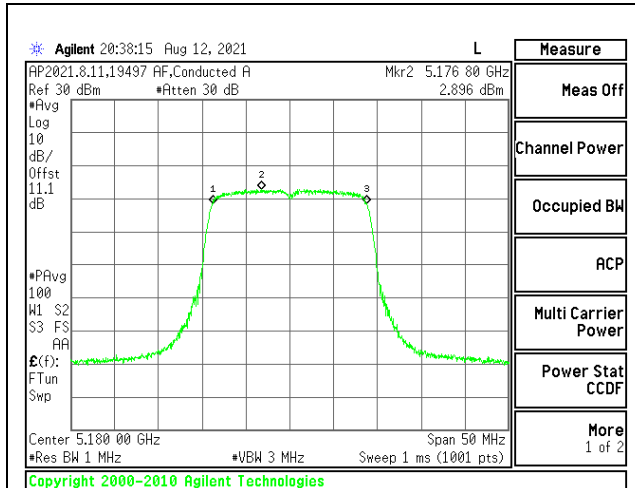
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

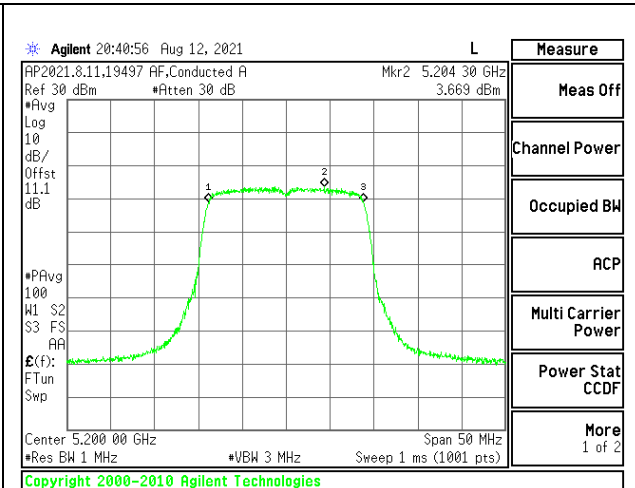
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.92	13.92	24.00	-10.08
Mid	5200	13.75	13.75	24.00	-10.25
High	5240	13.85	13.85	24.00	-10.15

PSD Results

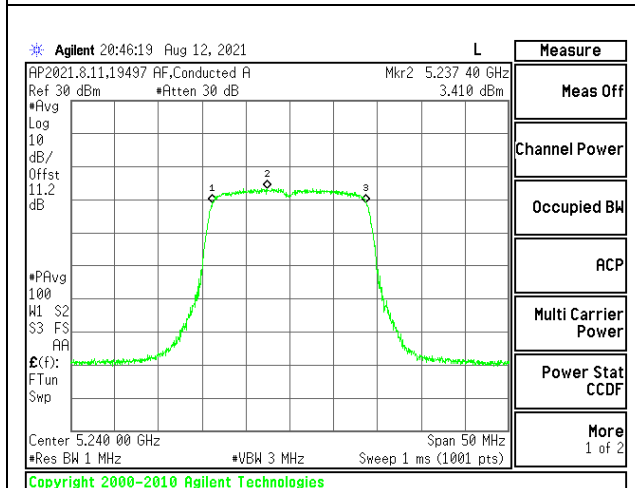
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	2.90	2.90	11.00	-8.10
Mid	5200	3.67	3.67	11.00	-7.33
High	5240	3.41	3.41	11.00	-7.59



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

1TX Antenna 2 MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	17.581	2.50	22.45	19.95	10.00	7.50
Mid	5200	17.597	2.50	22.45	19.95	10.00	7.50
High	5240	17.547	2.50	22.44	19.94	10.00	7.50

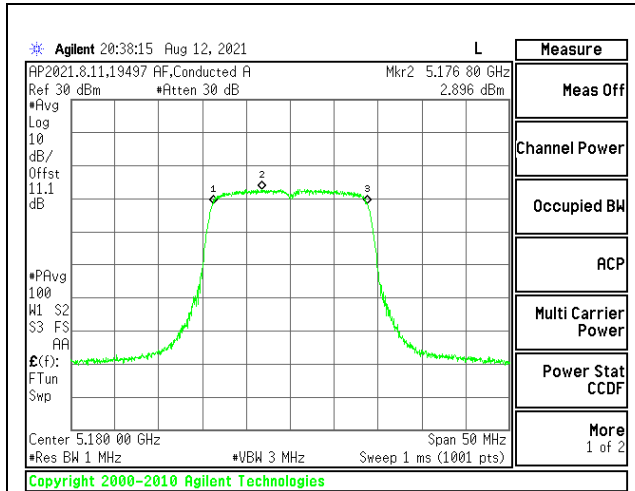
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

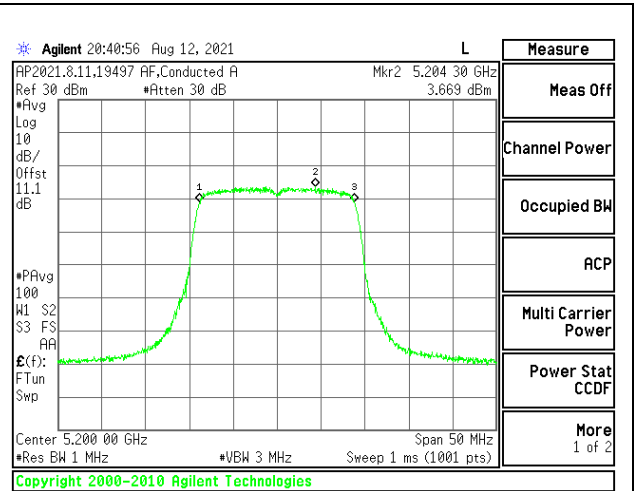
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.92	13.92	19.95	-6.03
Mid	5200	13.75	13.75	19.95	-6.20
High	5240	13.85	13.85	19.94	-6.09

PSD Results

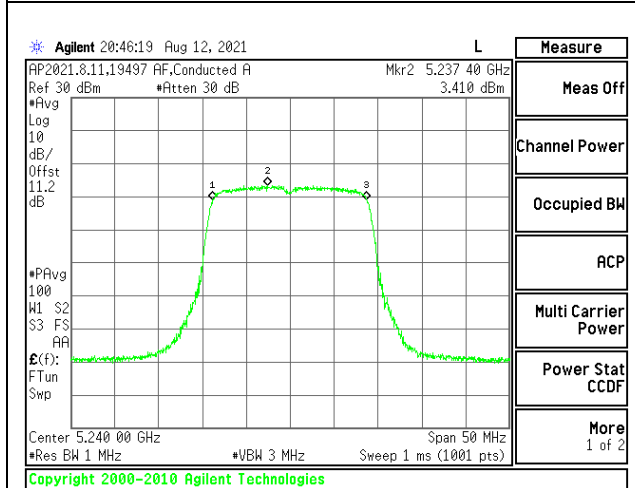
Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	2.90	2.90	7.50	-4.60
Mid	5200	3.67	3.67	7.50	-3.83
High	5240	3.41	3.41	7.50	-4.09



LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

Intentionally left blank

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	2.92	5.92	24.00	11.00
Mid	5200	2.92	5.92	24.00	11.00
High	5240	2.92	5.92	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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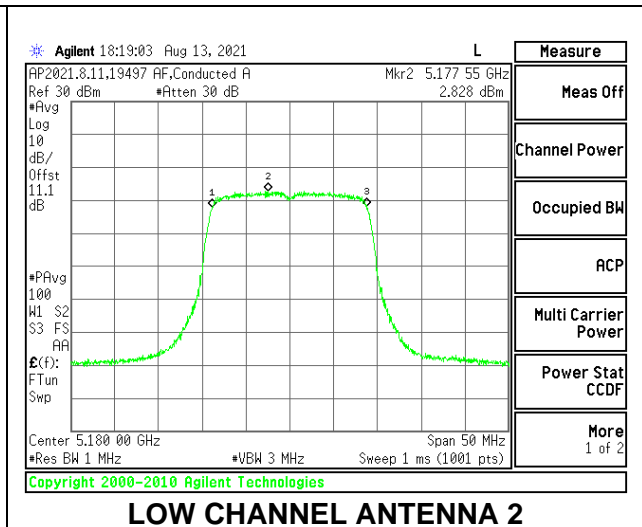
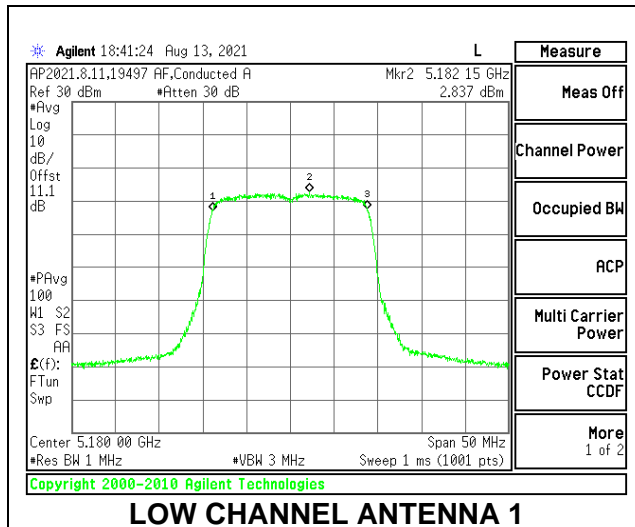
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.57	13.17	16.38	24.00	-7.62
Mid	5200	13.05	13.36	16.22	24.00	-7.78
High	5240	13.54	13.76	16.66	24.00	-7.34

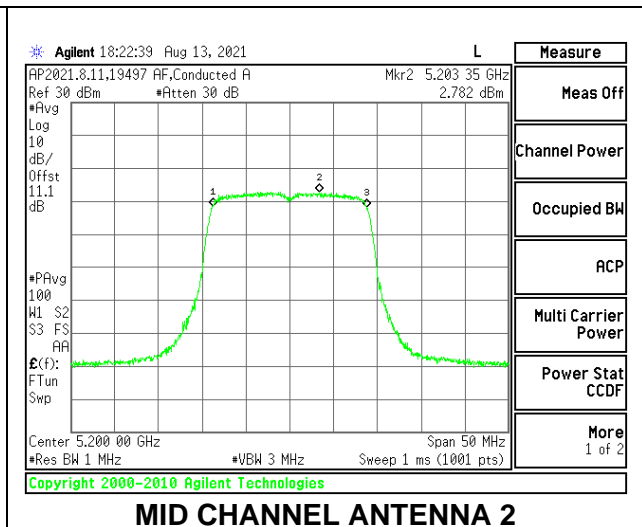
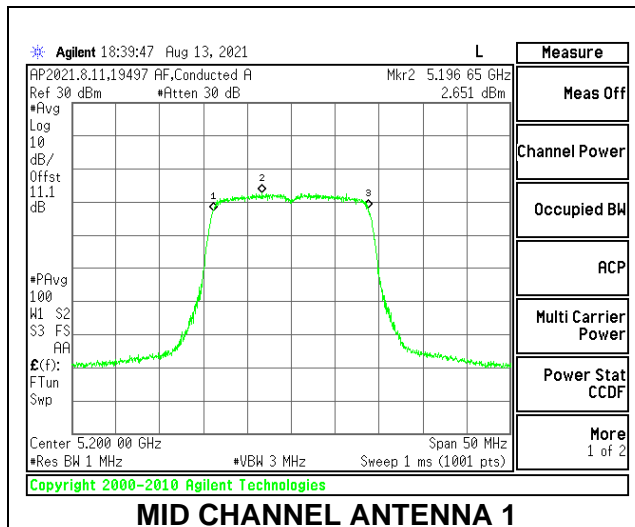
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	2.837	2.828	5.84	11.00	-5.16
Mid	5200	2.651	2.782	5.73	11.00	-5.27
High	5240	3.096	3.357	6.24	11.00	-4.76

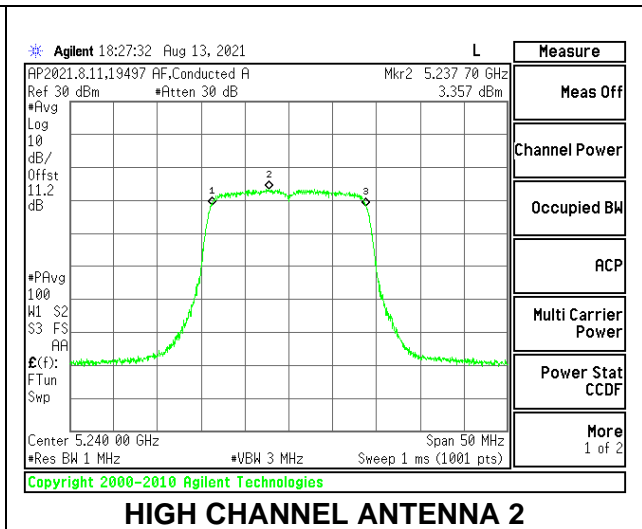
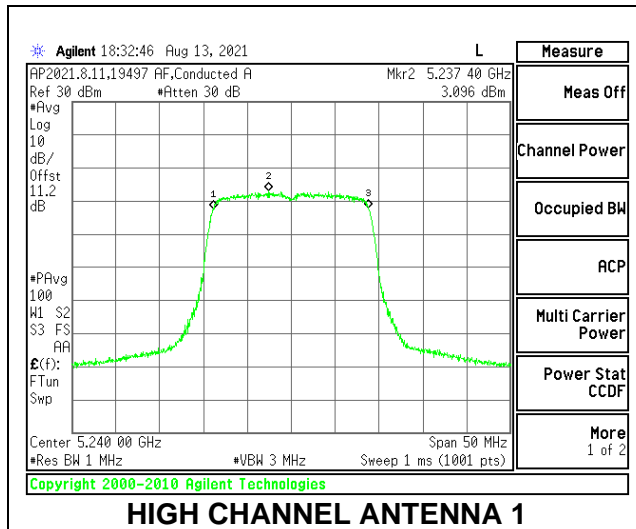
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	17.594	2.92	5.92	22.45	19.53	10.00	4.08
Mid	5200	17.556	2.92	5.92	22.44	19.52	10.00	4.08
High	5240	17.556	2.92	5.92	22.44	19.52	10.00	4.08

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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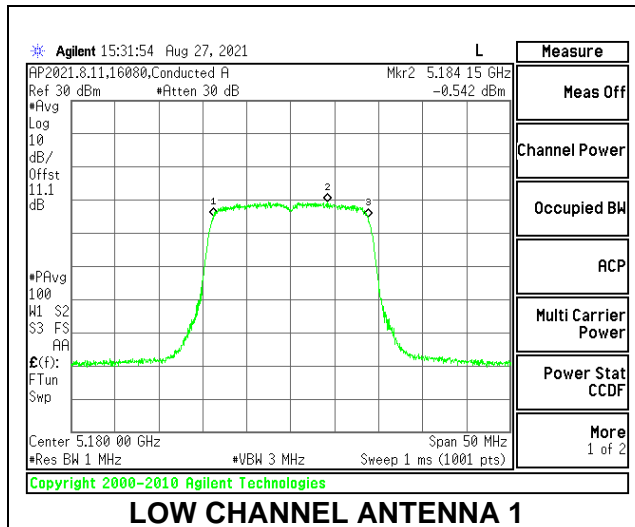
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	9.59	10.25	12.94	19.53	-6.59
Mid	5200	9.67	10.22	12.96	19.52	-6.56
High	5240	9.80	10.23	13.03	19.52	-6.49

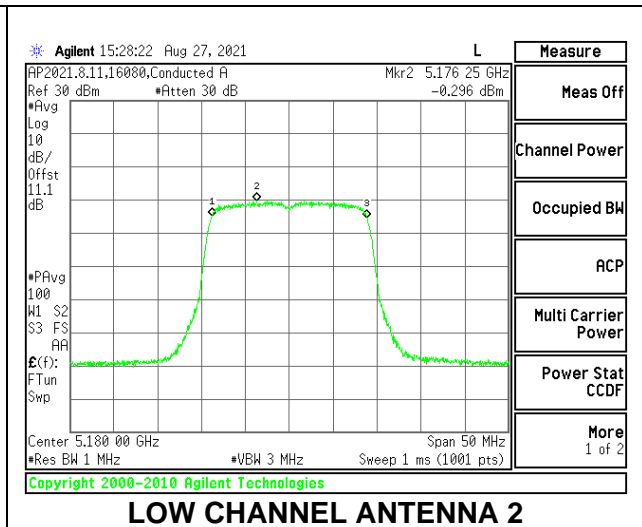
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	-0.54	-0.30	2.59	4.08	-1.49
Mid	5200	-0.55	-0.23	2.63	4.08	-1.45
High	5240	-0.38	0.01	2.83	4.08	-1.25

LOW CHANNEL

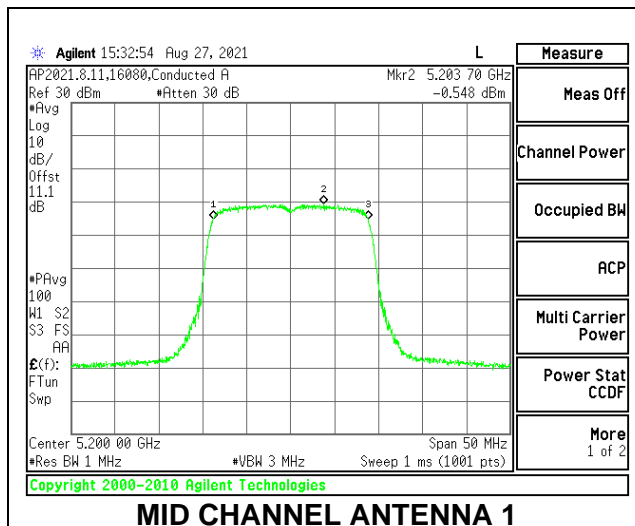


LOW CHANNEL ANTENNA 1

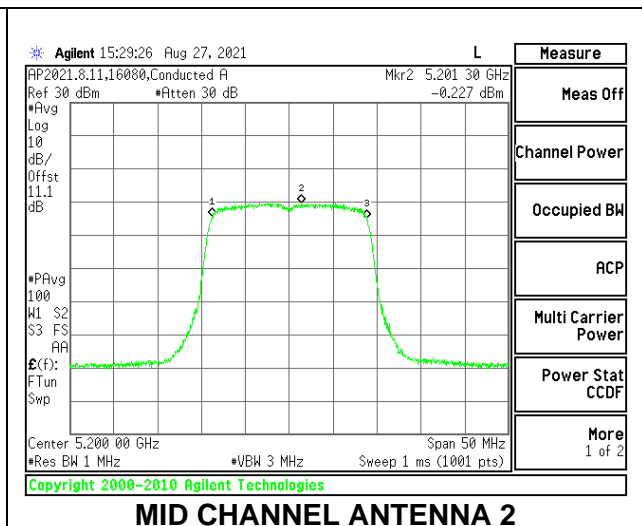


LOW CHANNEL ANTENNA 2

MID CHANNEL

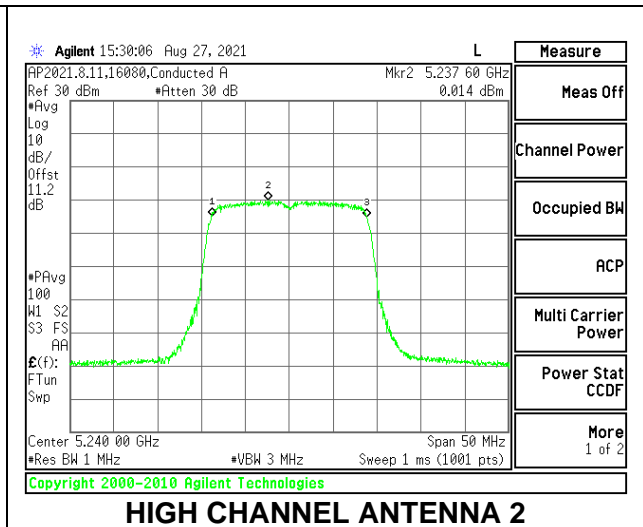
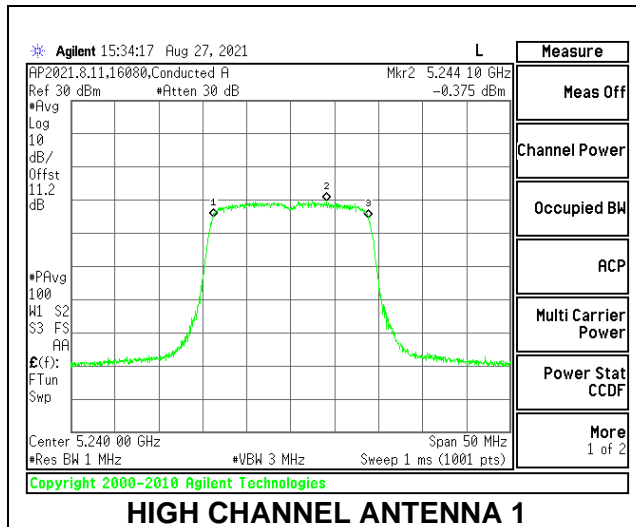


MID CHANNEL ANTENNA 1



MID CHANNEL ANTENNA 2

HIGH CHANNEL



9.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	3.30	24.00	11.00
High	5230	3.30	24.00	11.00

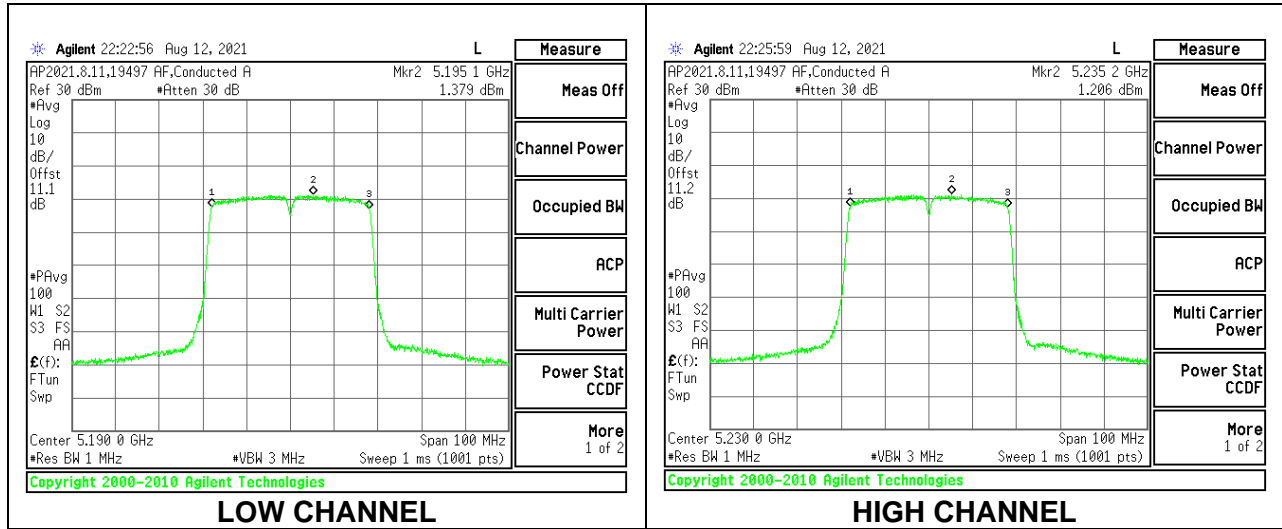
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	14.86	14.86	24.00	-9.14
High	5230	14.76	14.76	24.00	-9.24

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	1.38	1.38	11.00	-9.62
High	5230	1.21	1.21	11.00	-9.79



1TX Antenna 1 MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	35.971	3.30	23.00	19.70	10.00	6.70
High	5230	35.956	3.30	23.00	19.70	10.00	6.70

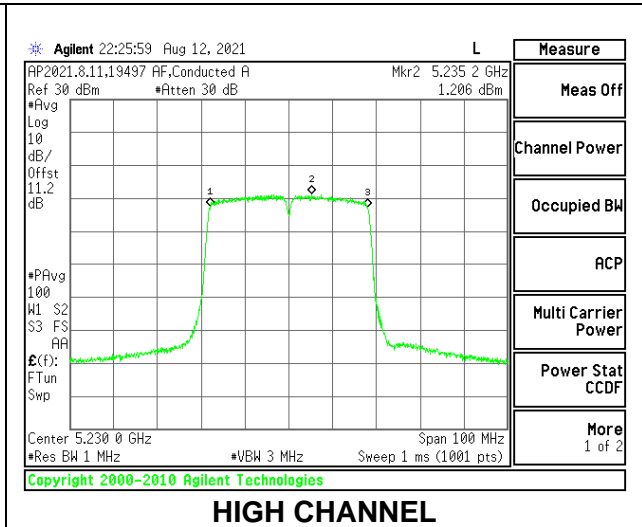
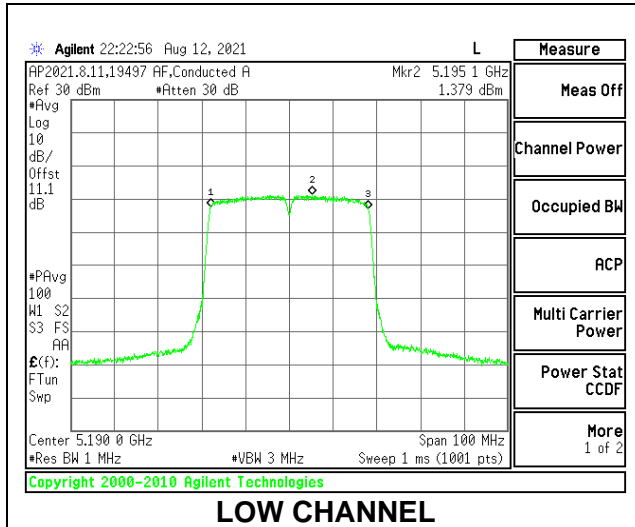
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	14.86	14.86	19.70	-4.84
High	5230	14.76	14.76	19.70	-4.94

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	1.38	1.38	6.70	-5.32
High	5230	1.21	1.21	6.70	-5.49



1TX Antenna 2 MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	2.50	24.00	11.00
High	5230	2.50	24.00	11.00

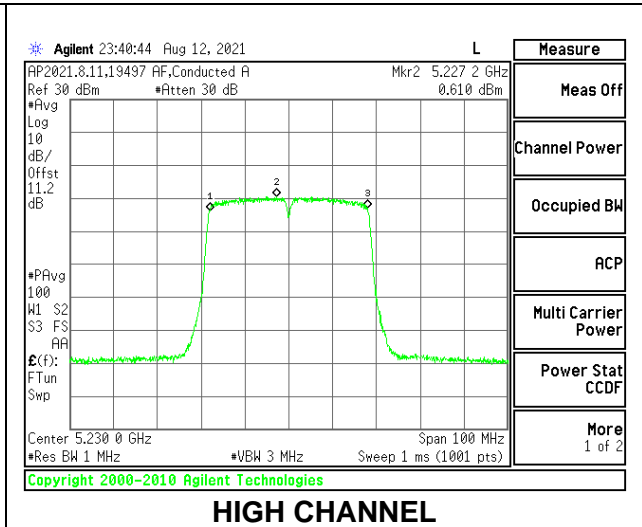
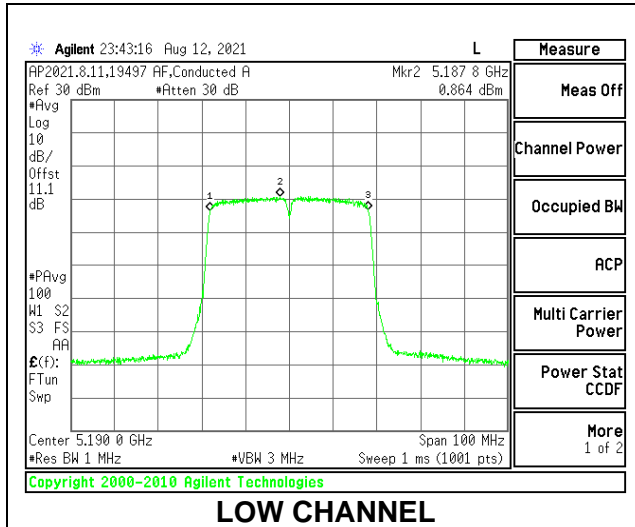
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.92	13.92	24.00	-10.08
High	5230	13.86	13.86	24.00	-10.14

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.86	0.86	11.00	-10.14
High	5230	0.61	0.61	11.00	-10.39



1TX Antenna 2 MODE (IC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	36.011	2.50	23.00	20.50	10.00	7.50
High	5230	35.959	2.50	23.00	20.50	10.00	7.50

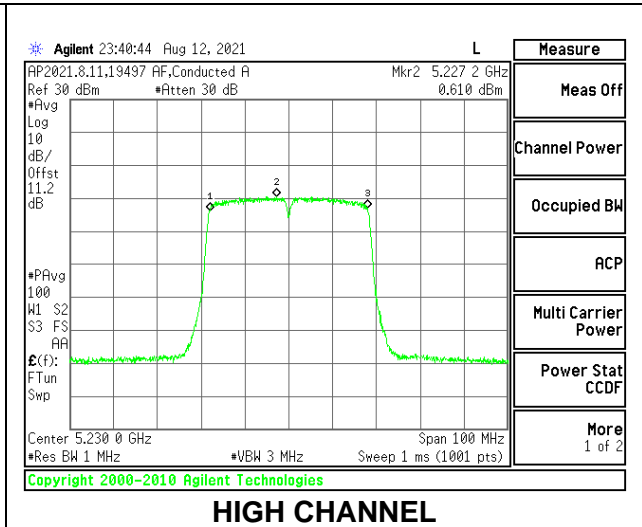
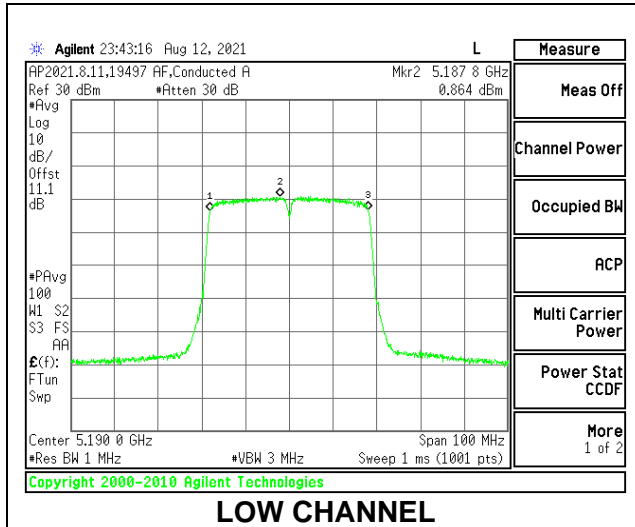
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.92	13.92	20.50	-6.58
High	5230	13.86	13.86	20.50	-6.64

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	0.86	0.86	7.50	-6.64
High	5230	0.61	0.61	7.50	-6.89



2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

Test Engineer:	16080 ZS
Test Date:	8/17/21

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	2.92	5.92	24.00	11.00
High	5230	2.92	5.92	24.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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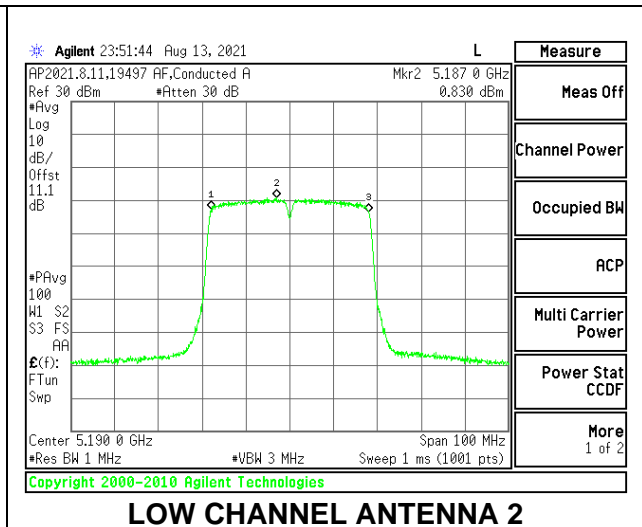
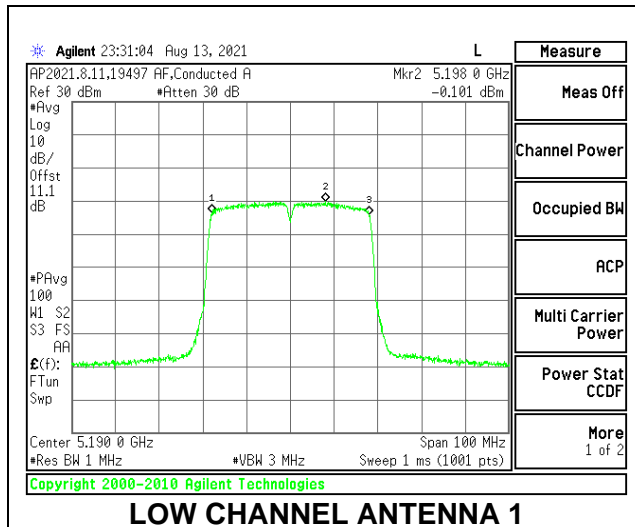
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.57	13.96	16.78	24.00	-7.22
High	5230	13.49	13.99	16.76	24.00	-7.24

PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-0.10	0.83	3.40	11.00	-7.60
High	5230	-0.02	0.91	3.48	11.00	-7.52

LOW CHANNEL



HIGH CHANNEL

