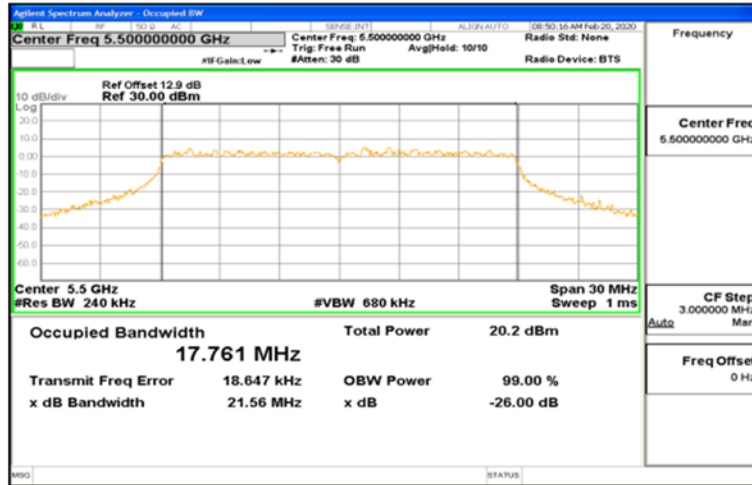
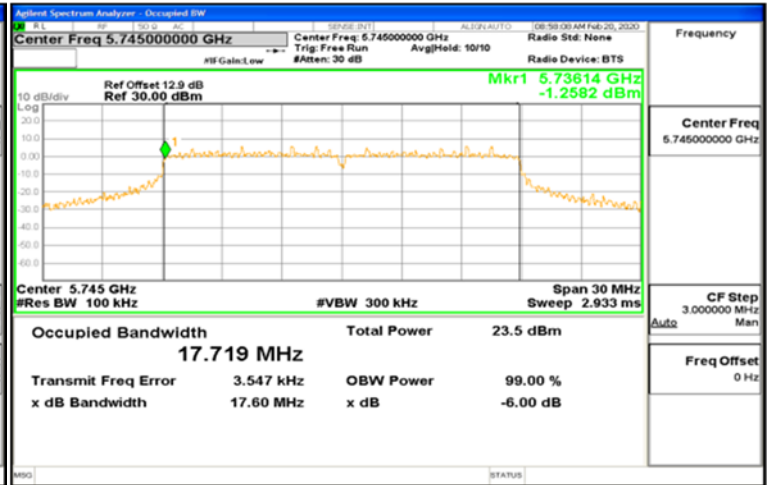


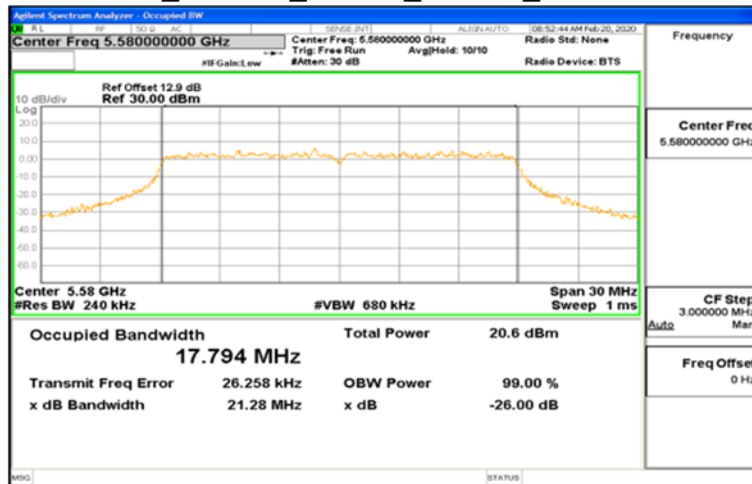
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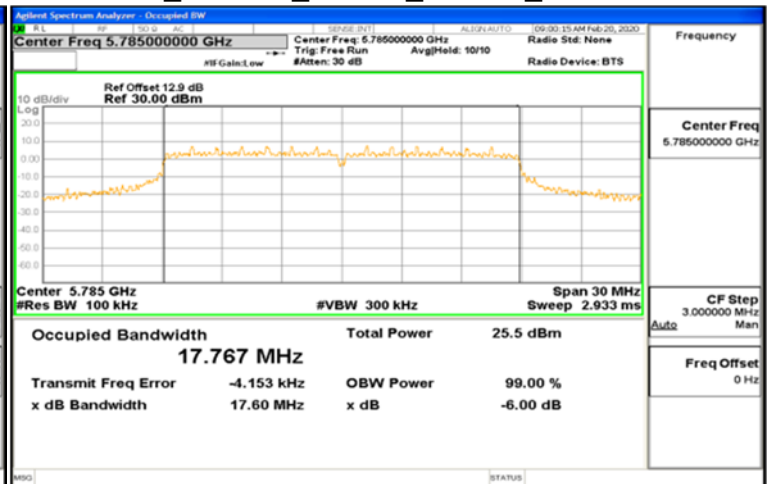
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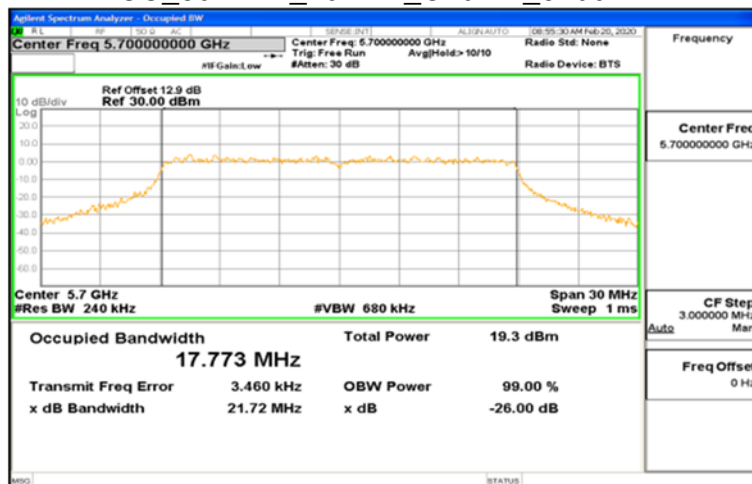
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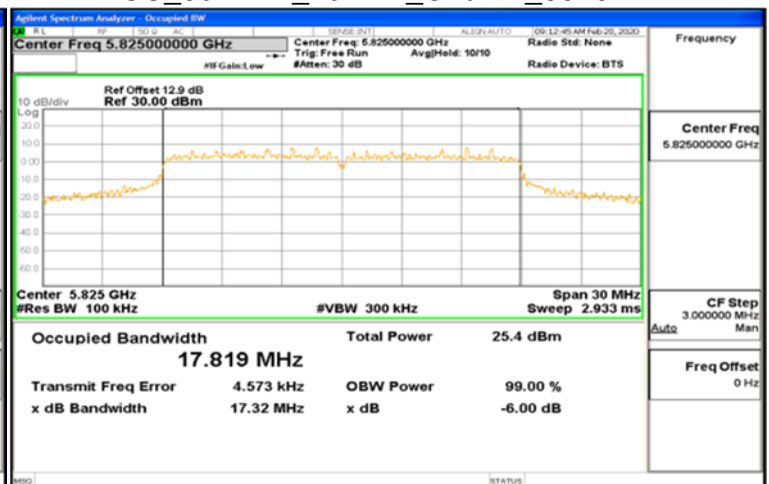
FCC_802.11n_20MHz_Chain1_5785MHz



FCC_802.11n_20MHz_Chain1_5700MHz



FCC_802.11n_20MHz_Chain1_5825MHz



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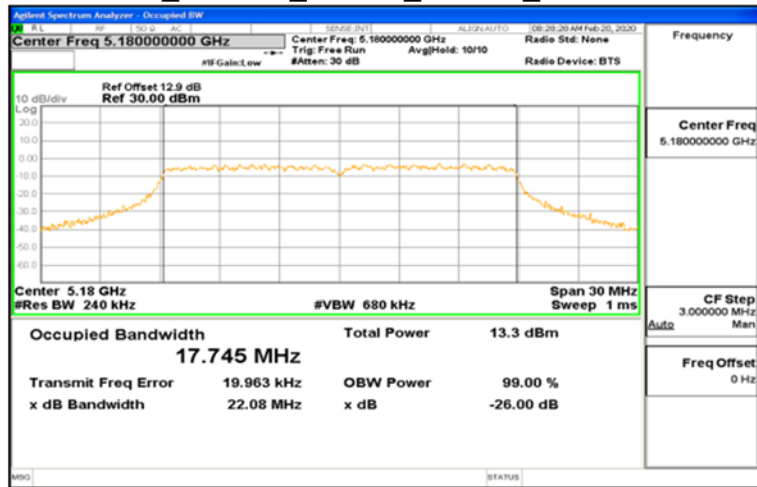
t (886-2) 2299-3279

f (886-2) 2298-0488

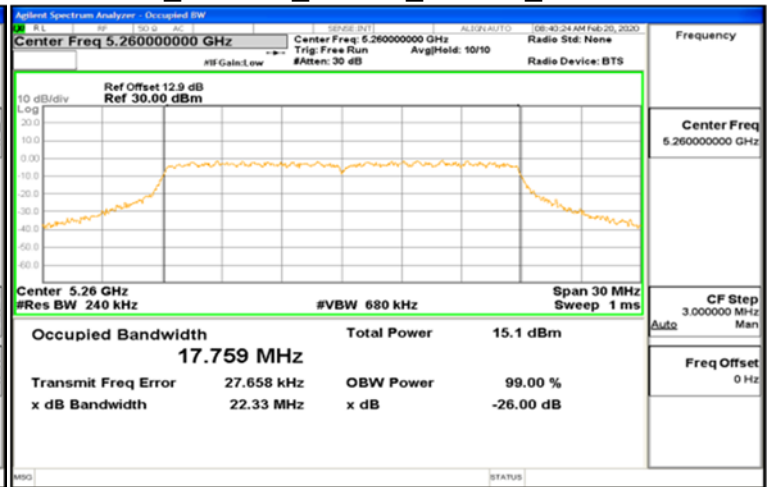
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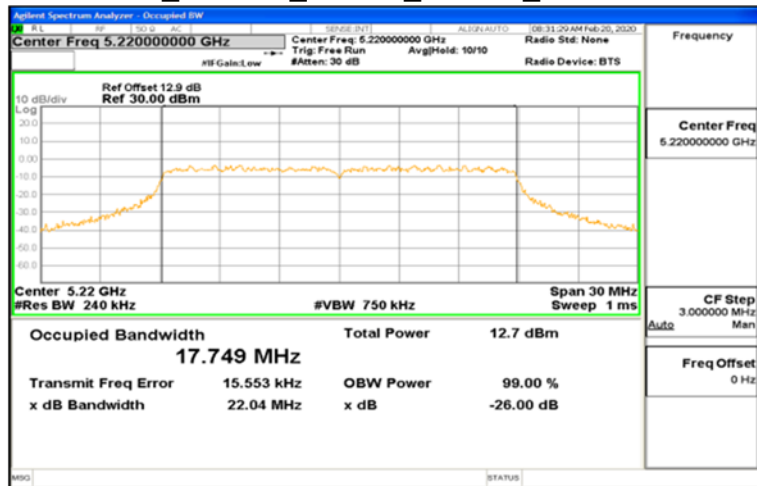
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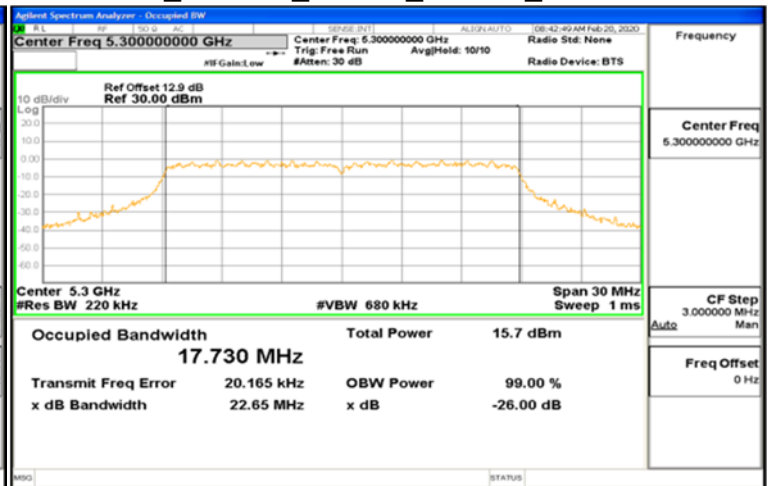
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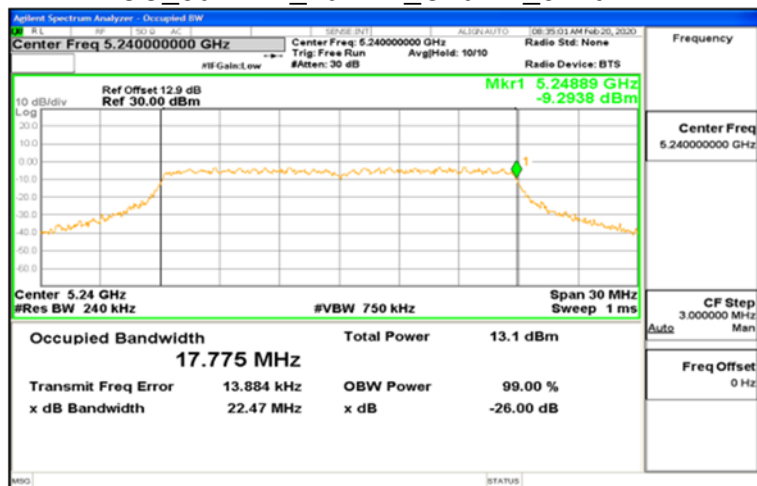
FCC 802.11n 20MHz_Chain2_5220MHz



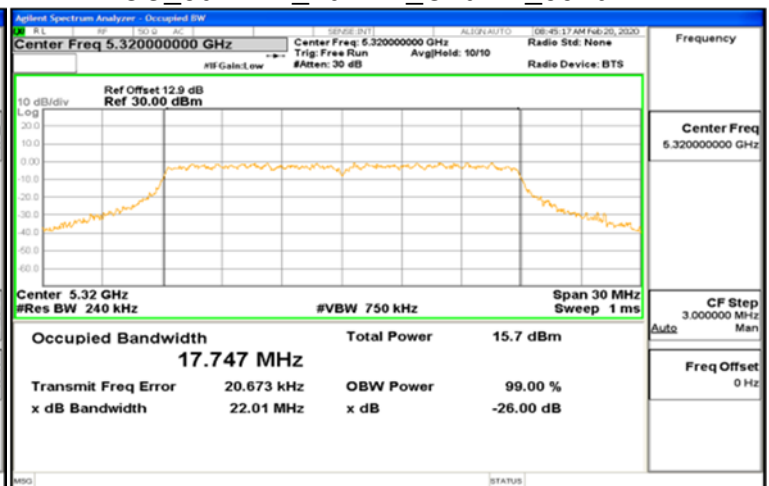
FCC 802.11n 20MHz_Chain2_5300MHz



FCC 802.11n 20MHz_Chain2_5240MHz



FCC 802.11n 20MHz_Chain2_5320MHz



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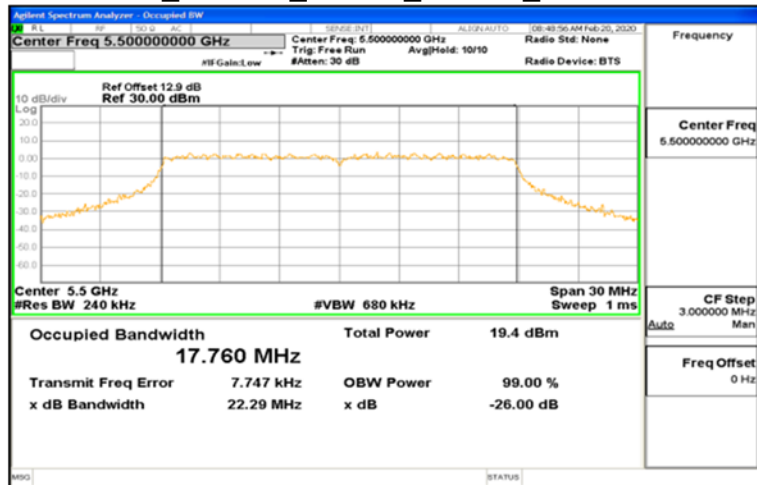
t (886-2) 2299-3279

f (886-2) 2298-0488

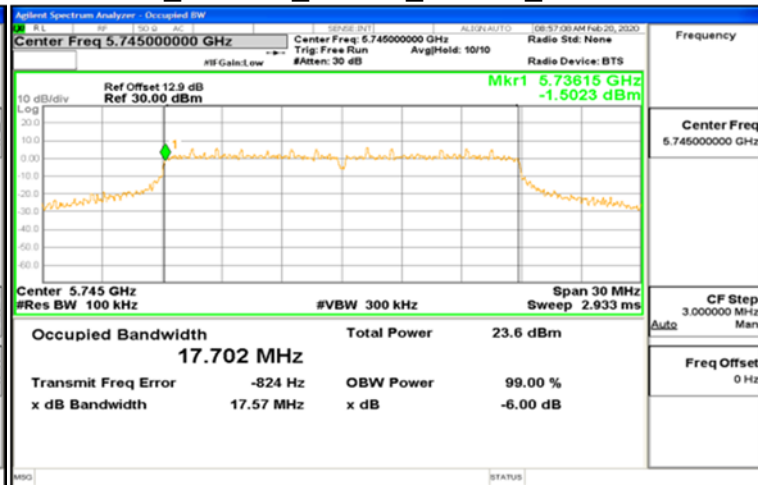
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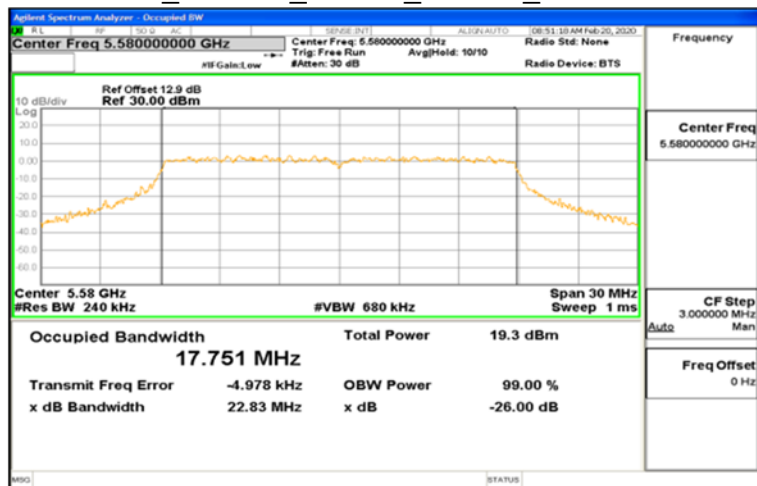
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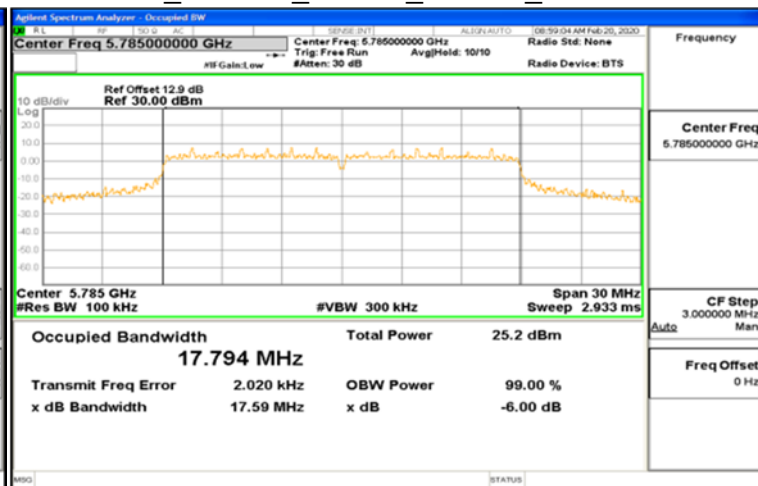
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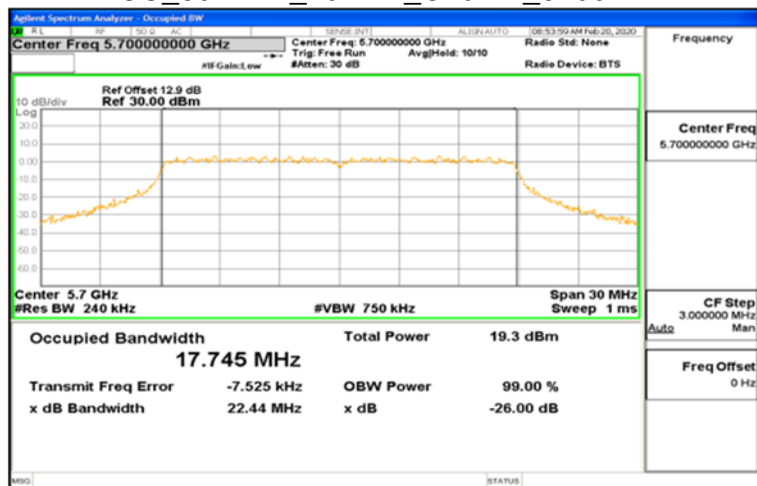
FCC 802.11n 20MHz_Chain2_5580MHz



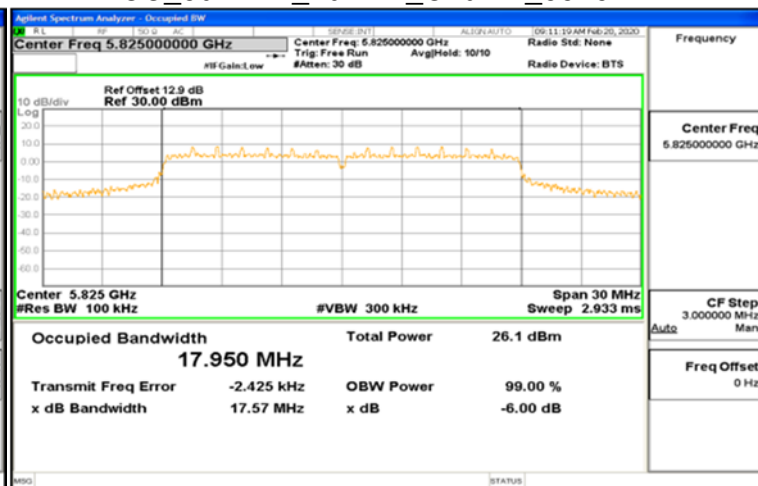
FCC 802.11n 20MHz_Chain2_5785MHz



FCC 802.11n 20MHz_Chain2_5700MHz



FCC 802.11n 20MHz_Chain2_5825MHz



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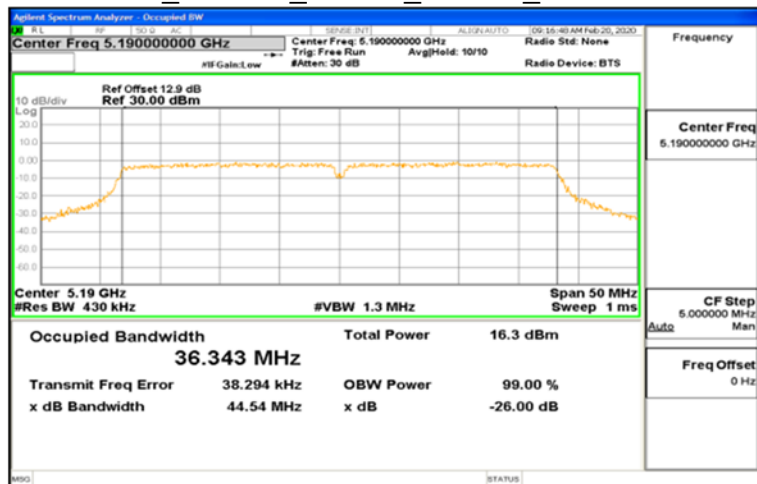
t (886-2) 2299-3279

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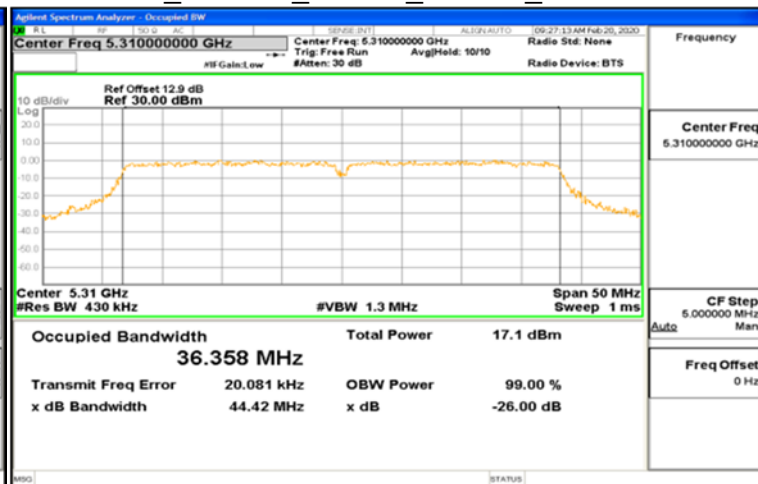
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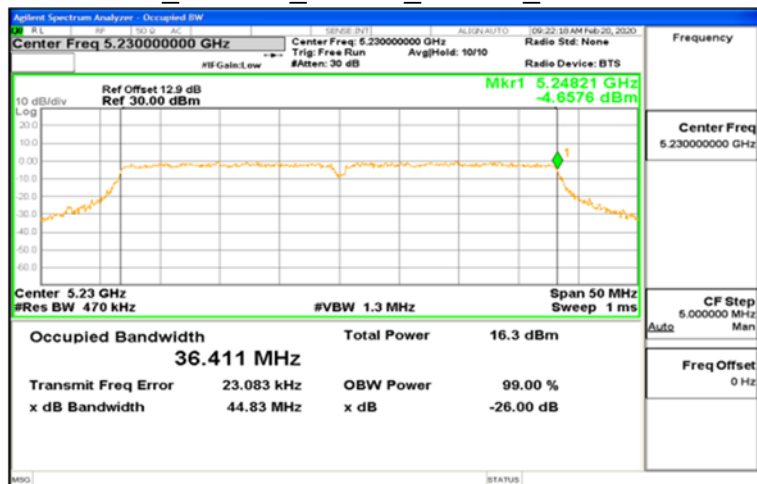
FCC_802.11n_40MHz_Chain0_5190MHz



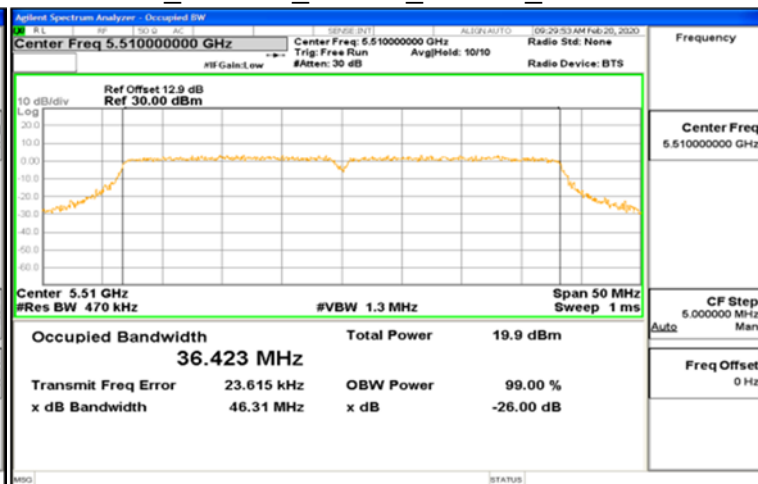
FCC_802.11n_40MHz_Chain0_5310MHz



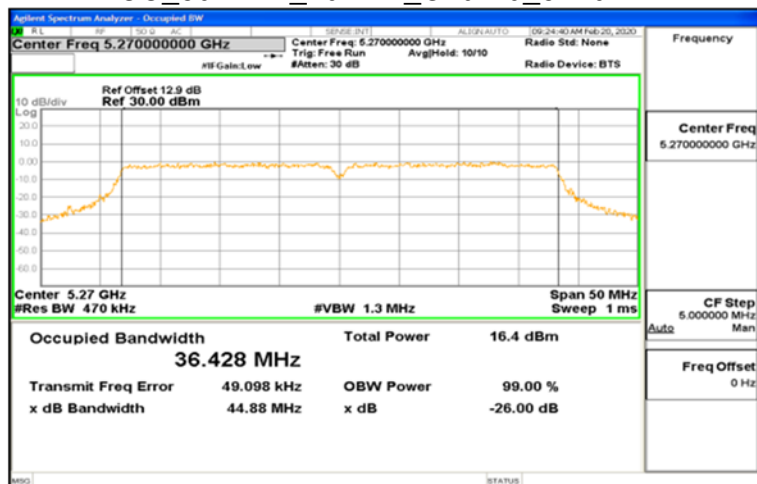
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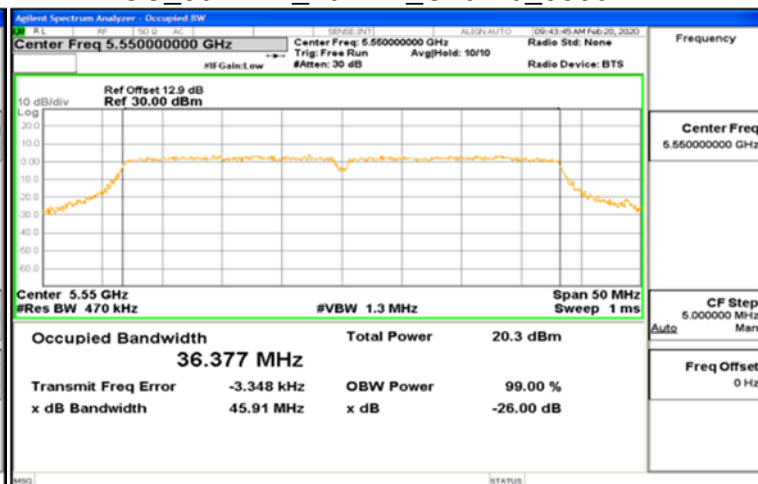
FCC_802.11n_40MHz_Chain0_5510MHz



FCC_802.11n_40MHz_Chain0_5270MHz



FCC_802.11n_40MHz_Chain0_5550MHz



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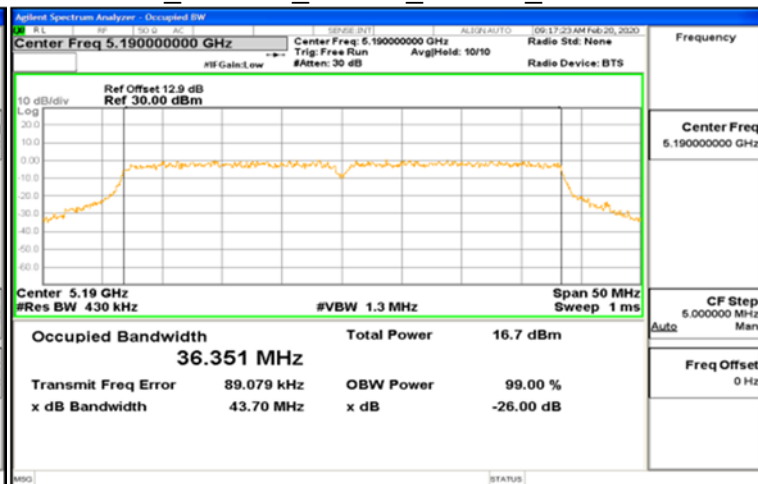
t (886-2) 2299-3279

f (886-2) 2298-0488

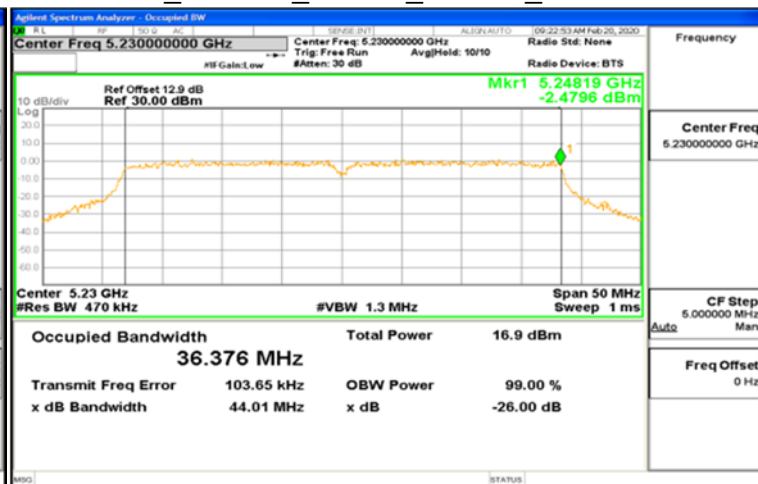
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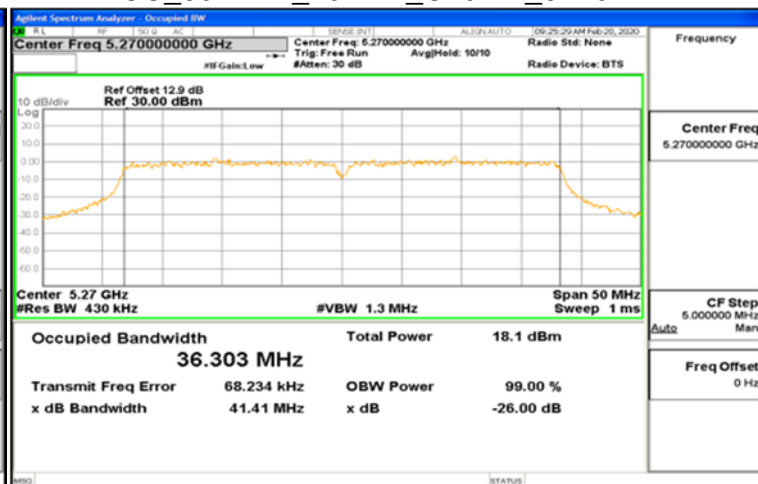
FCC 802.11n 40MHz Chain1 5190MHz



FCC 802.11n 40MHz Chain1 5230MHz



FCC 802.11n 40MHz Chain1 5270MHz



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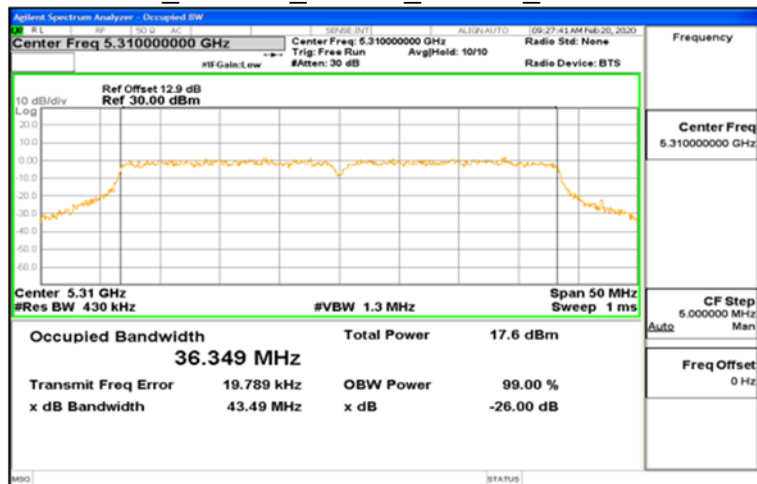
t (886-2) 2299-3279

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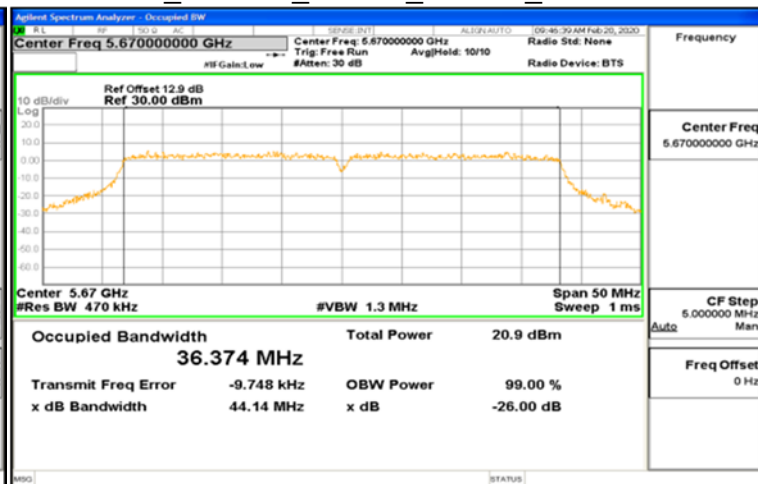
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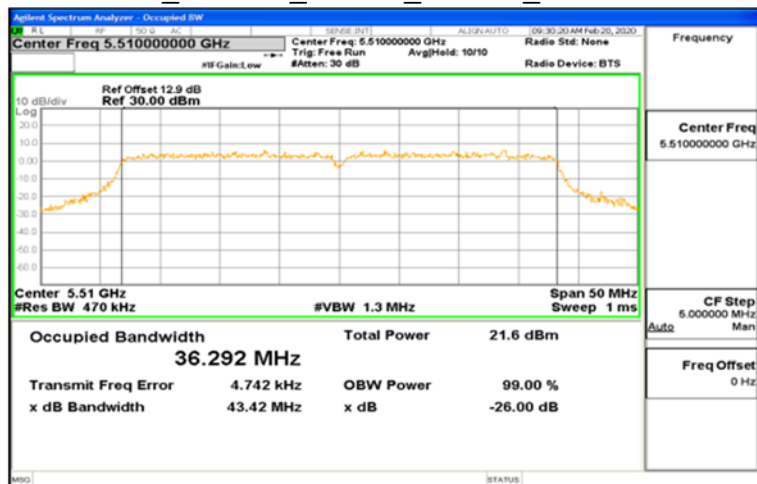
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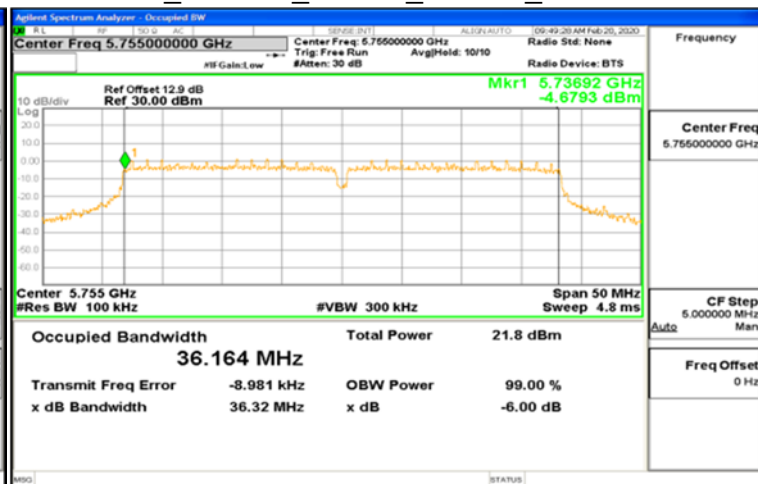
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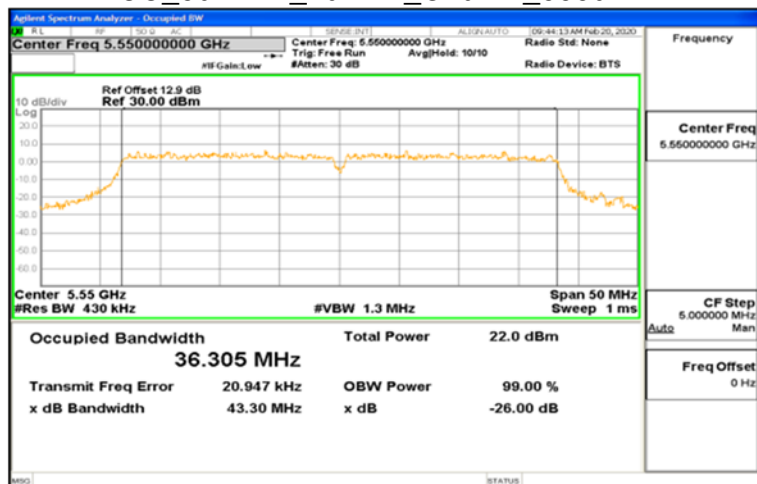
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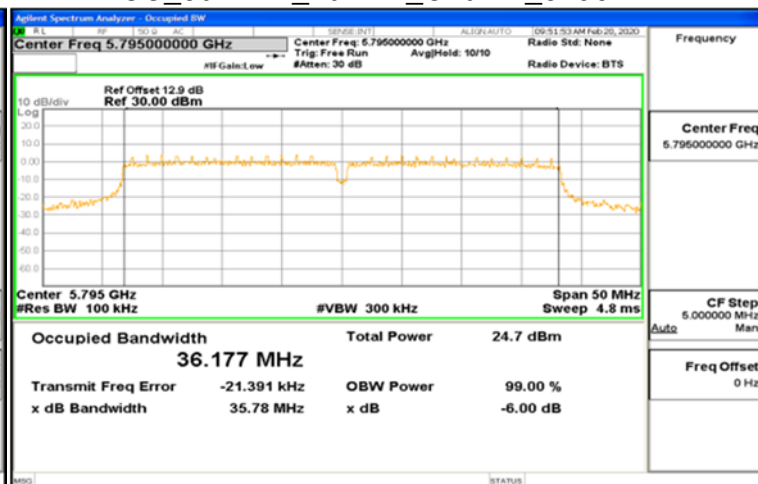
FCC_802.11n_40MHz_Chain1_5755MHz



FCC_802.11n_40MHz_Chain1_5550MHz



FCC_802.11n_40MHz_Chain1_5795MHz



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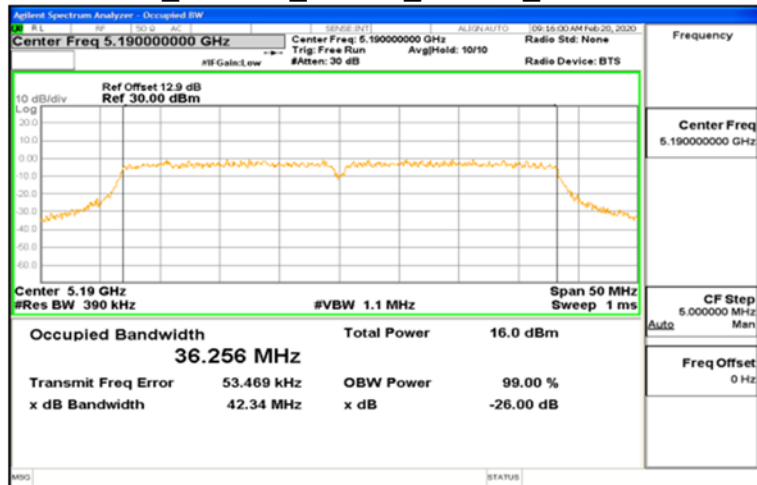
t (886-2) 2299-3279

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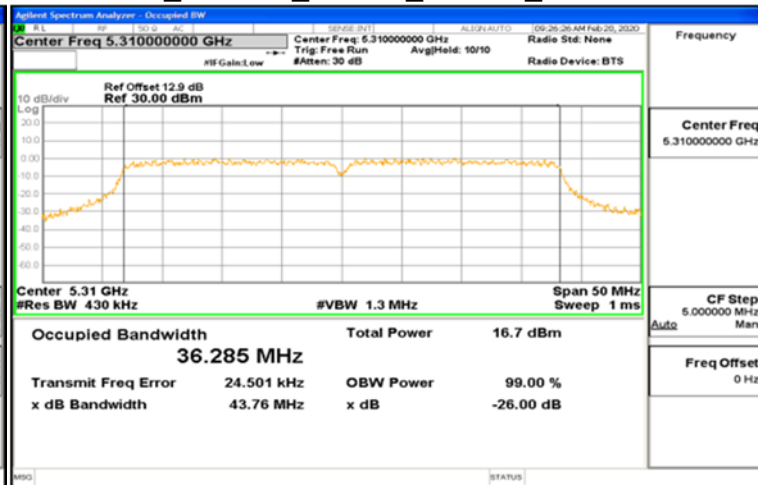
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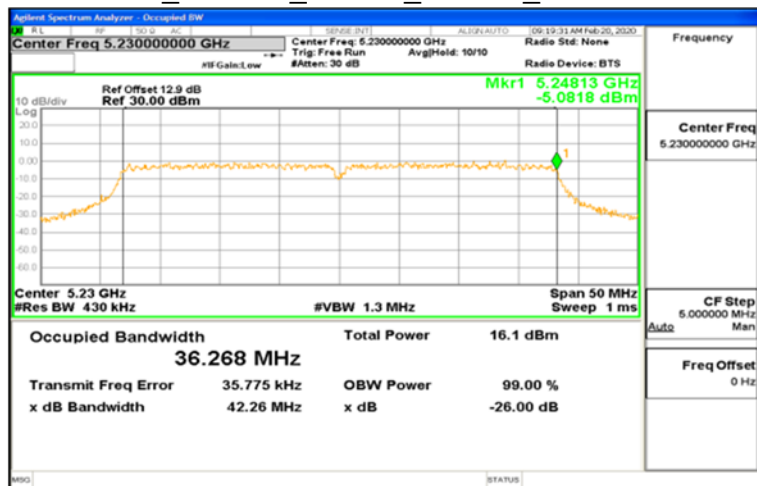
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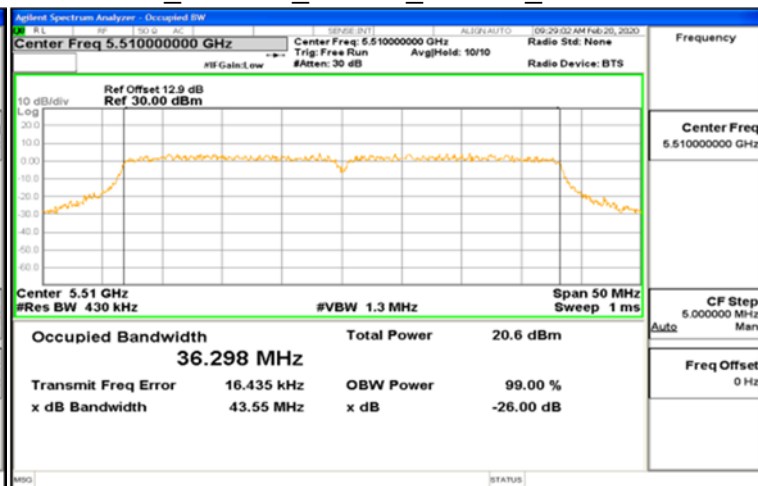
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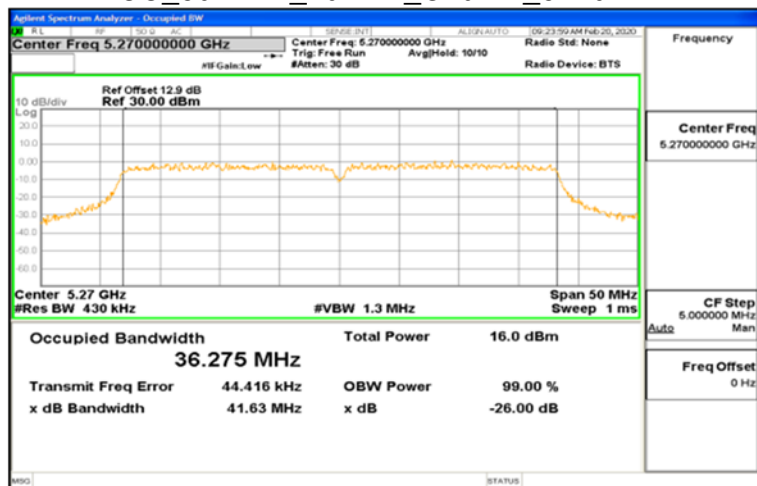
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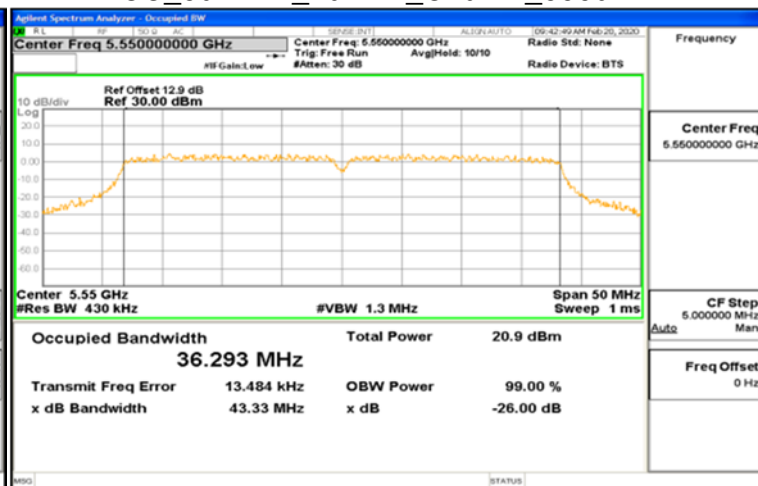
FCC_802.11n_40MHz_Chain2_5510MHz



FCC_802.11n_40MHz_Chain2_5270MHz



FCC_802.11n_40MHz_Chain2_5550MHz



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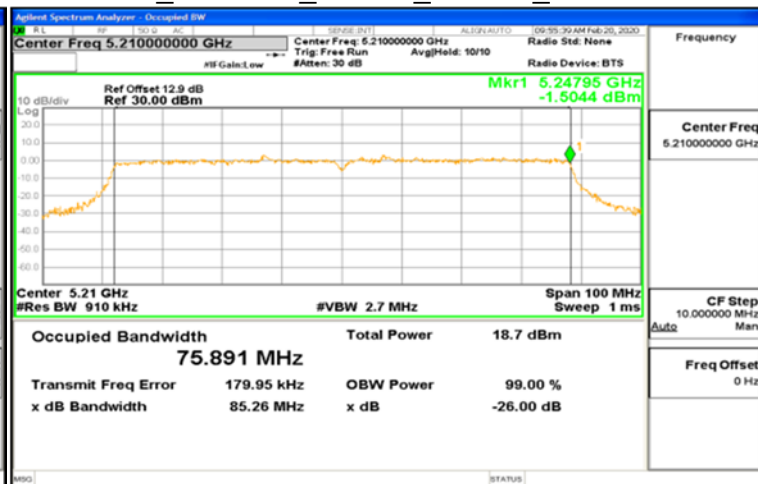
t (886-2) 2299-3279

f (886-2) 2298-0488

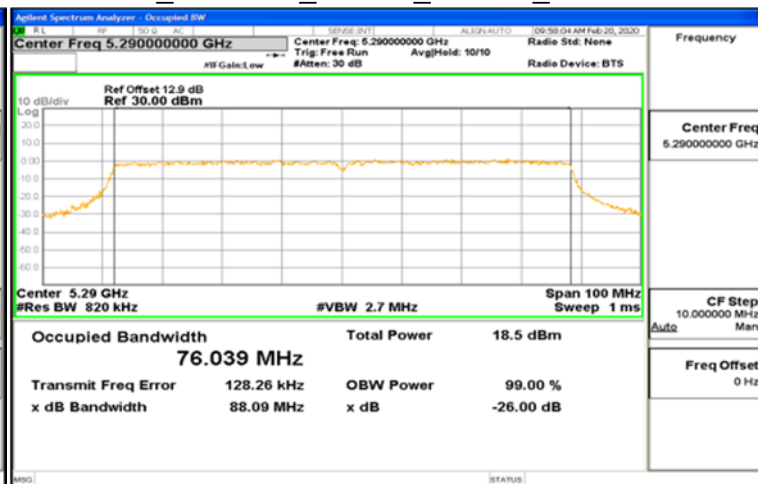
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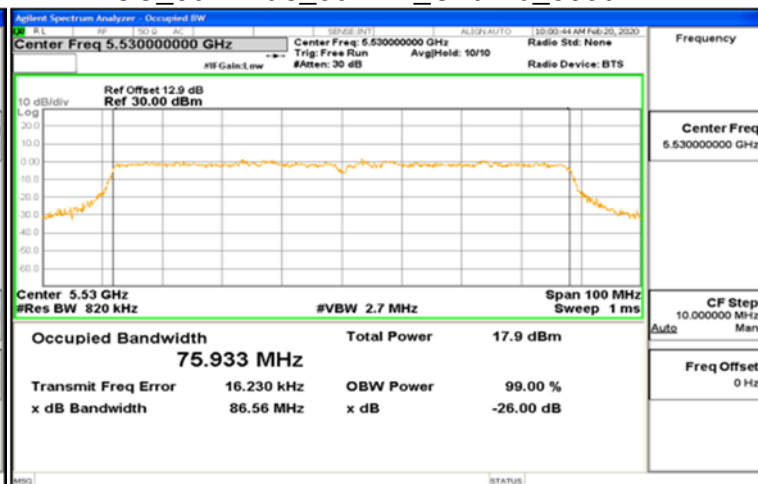
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FCC 802.11ac 80MHz Chain0 5290MHz

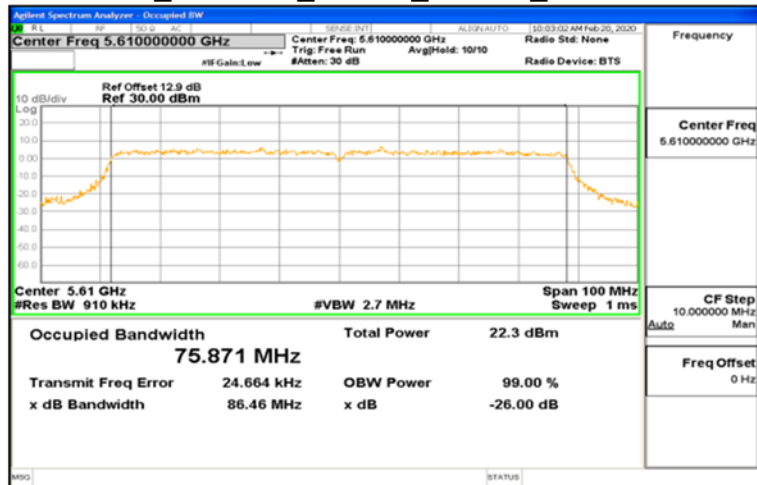


FCC 802.11ac 80MHz Chain0 5530MHz

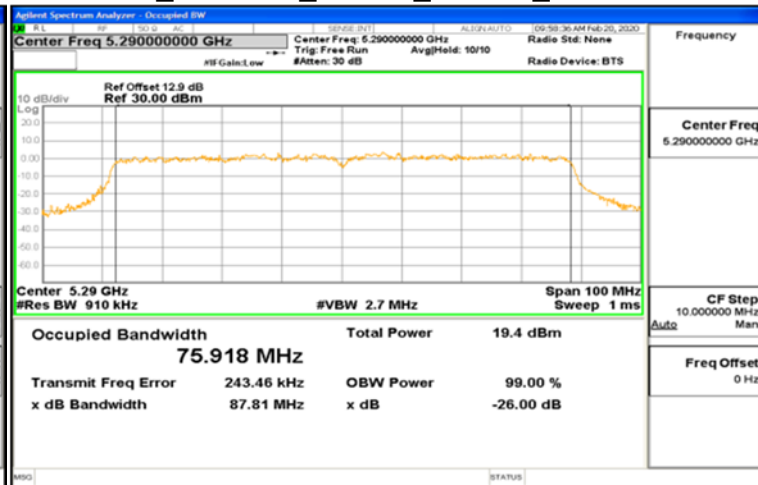


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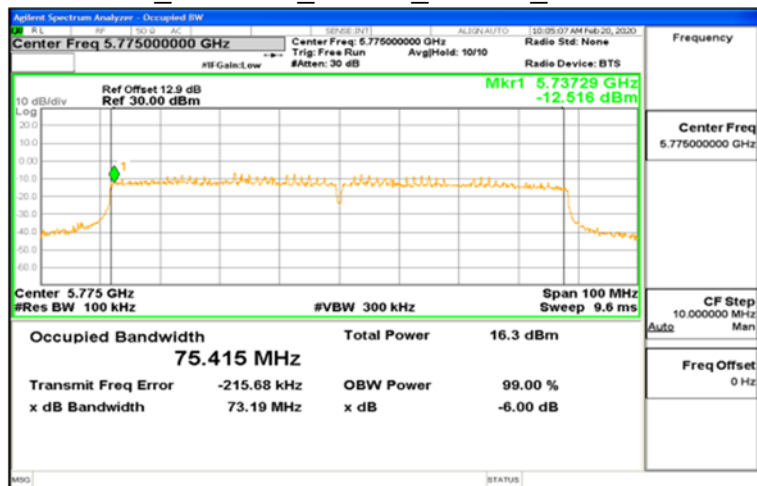
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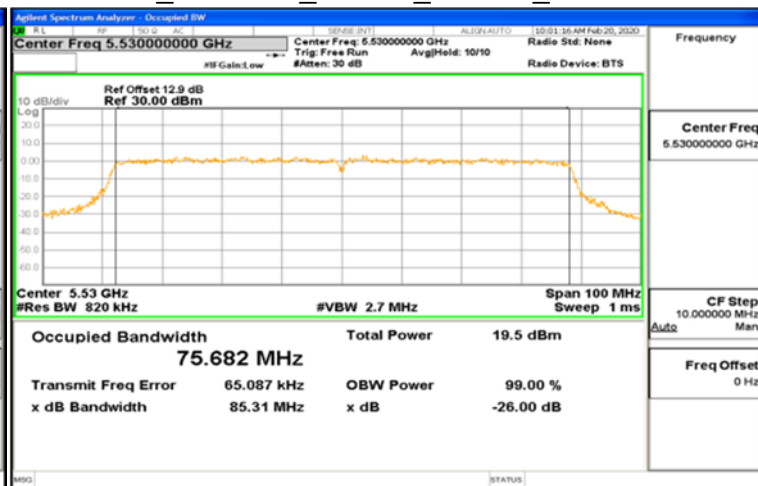
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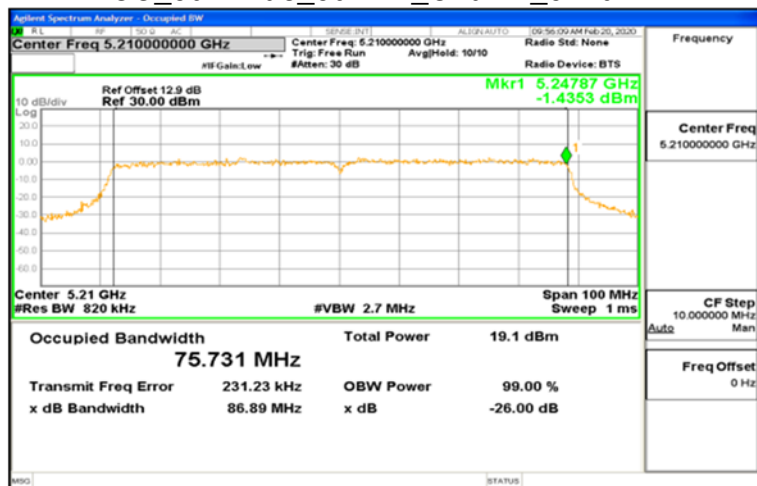
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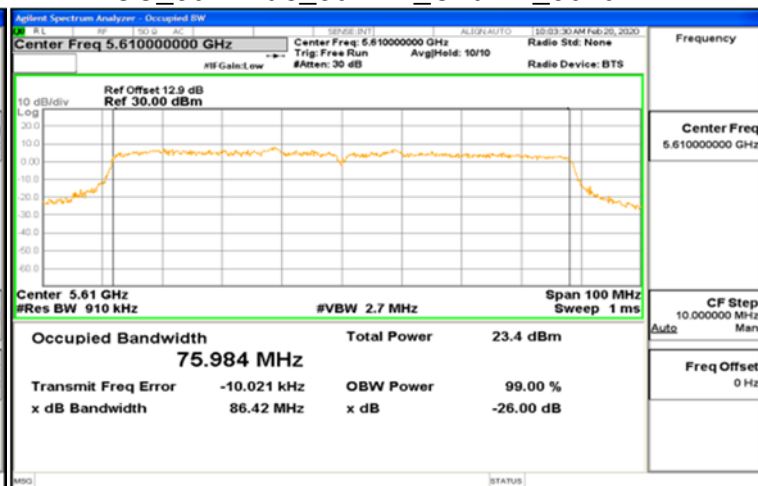
FCC_802.11ac_80MHz_Chain1_5530MHz



FCC_802.11ac_80MHz_Chain1_5210MHz



FCC_802.11ac_80MHz_Chain1_5610MHz



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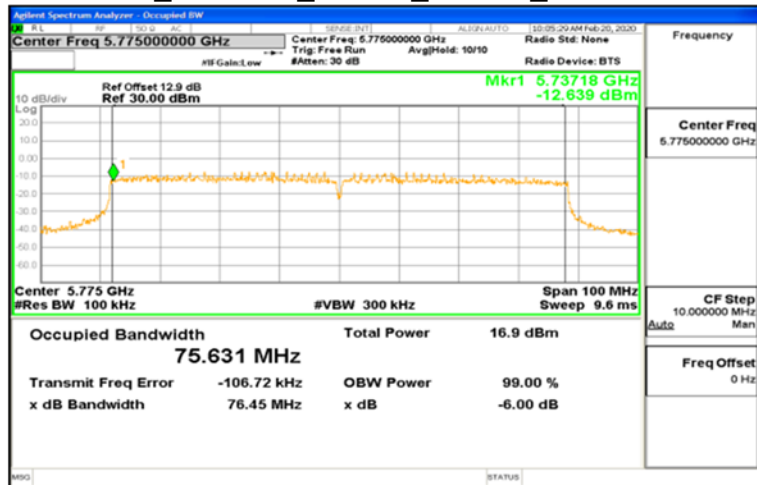
t (886-2) 2299-3279

f (886-2) 2298-0488

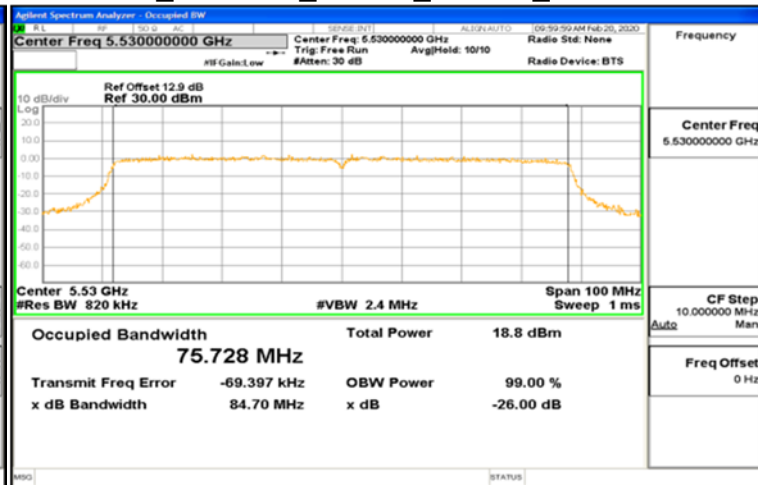
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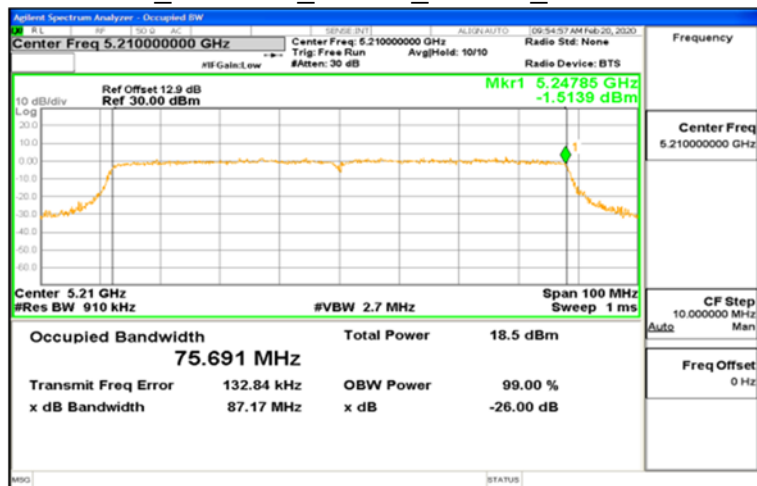
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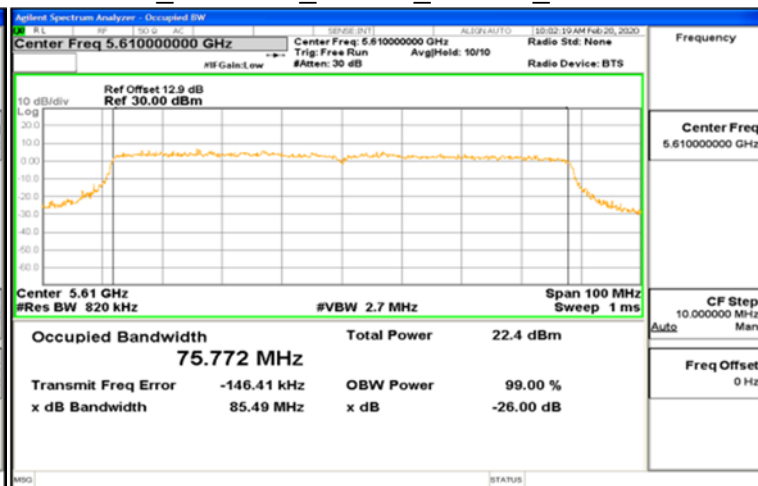
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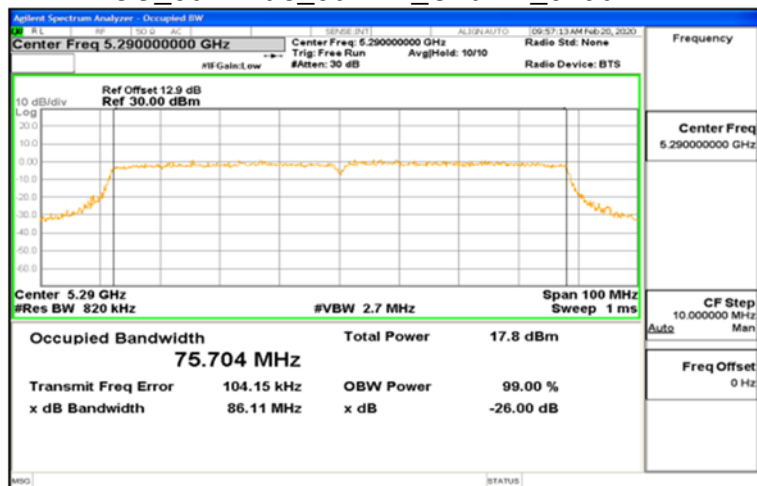
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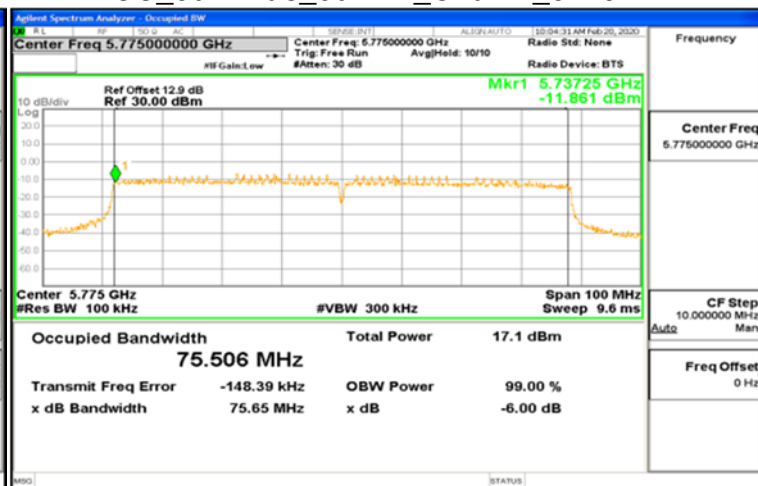
FCC_802.11ac_80MHz_Chain2_5610MHz



FCC_802.11ac_80MHz_Chain2_5290MHz



FCC_802.11ac_80MHz_Chain2_5775MHz



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8.5.3 99% BW Verification for DFS Function

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.39	< 5250
5745	5736.76	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.25	< 5250
5745	5736.75	> 5725

802.11a_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.29	< 5250
5745	5736.75	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.89	< 5250
5745	5736.17	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.88	< 5250
5745	5736.14	> 5725

802.11n_HT20_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.89	< 5250
5745	5736.15	> 5725

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.21	< 5250
5755	5736.96	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.19	< 5250
5755	5736.92	> 5725

802.11n_HT40_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.13	< 5250
5755	5736.93	> 5725

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.95	< 5250
5775	5737.29	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.87	< 5250
5775	5737.18	> 5725

802.11ac_VHT80_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.85	< 5250
5775	5737.25	> 5725

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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.			

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below:

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	9.77	26.23
UNII-2A	9.77	20.21
U-NII-2C	9.77	20.21
U-NII-3	9.77	26.23

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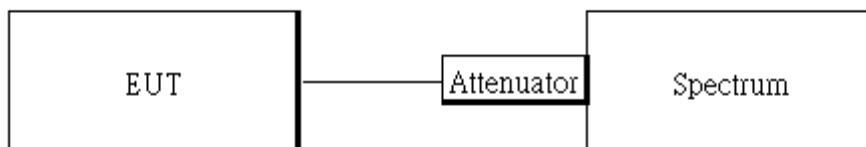
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	11/05/2019	11/04/2020
Power Sensor	Anritsu	MA2411B	1207365	11/05/2019	11/04/2020
Power Sensor	Anritsu	MA2411B	1207368	11/05/2019	11/04/2020
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

802.11a_3TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2				
36	5180	6	6.92	6.77	7.2	11.87	15.371	26.22878745	PASS
44	5220	6	6.98	6.82	7.1	11.87	15.388	26.22878745	PASS
48	5240	6	6.87	6.72	7	11.77	15.026	26.22878745	PASS
52	5260	6	14.3	14.2	15	19.25	84.223	20.21 or $11+10\log(B) = 24.32$	PASS
60	5300	6	13.8	13.9	15	19.12	81.716	20.21 or $11+10\log(B) = 23.95$	PASS
64	5320	6	14.3	14.3	15	19.28	84.773	20.21 or $11+10\log(B) = 23.92$	PASS
100	5500	6	14.2	13.7	14	18.84	76.615	20.21 or $11+10\log(B) = 24.68$	PASS
116	5580	6	13.8	13.5	14	18.63	72.875	20.21 or $11+10\log(B) = 24.11$	PASS
140	5700	6	13.7	13.7	13	18.52	71.166	20.21 or $11+10\log(B) = 24.14$	PASS
149	5745	6	16.7	16.9	17	21.63	145.448	26.22878745	PASS
157	5785	6	18.2	18.5	18	23.18	207.916	26.22878745	PASS
165	5825	6	18.5	18.1	18	23.25	211.366	26.22878745	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2				
36	5180	MCS16	6.84	7.44	7.5	12.50	17.786	26.22878745	PASS
44	5220	MCS16	7.08	7.39	7.5	12.53	17.919	26.22878745	PASS
48	5240	MCS16	7.34	7.42	7.5	12.65	18.411	26.22878745	PASS
52	5260	MCS16	9.29	9.25	9.8	14.67	29.288	20.21 or $11+10\log(B) = 24.23$	PASS
60	5300	MCS16	9.14	9.26	10	14.79	30.114	20.21 or $11+10\log(B) = 24.16$	PASS
64	5320	MCS16	9.22	9.13	10	14.84	30.473	20.21 or $11+10\log(B) = 24.28$	PASS
100	5500	MCS16	13.2	13.7	13	18.46	70.172	20.21 or $11+10\log(B) = 24.29$	PASS
116	5580	MCS16	13.3	13.7	13	18.52	71.099	20.21 or $11+10\log(B) = 24.28$	PASS
140	5700	MCS16	13	13.5	13	18.31	67.841	20.21 or $11+10\log(B) = 24.35$	PASS
149	5745	MCS16	16.3	16.9	16	21.77	150.227	26.22878745	PASS
157	5785	MCS16	18.1	18.2	18	23.22	209.912	26.22878745	PASS
165	5825	MCS16	18.3	18	18	23.29	213.108	26.22878745	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2				
38	5190	MCS16	7.31	7.73	7.9	13.20	20.878	26.22878745	PASS
46	5230	MCS16	7.42	7.51	7.8	13.12	20.509	26.22878745	PASS
54	5270	MCS16	9.27	9.35	9.9	15.03	31.870	20.21 or 11+10log(B) = 27.17	PASS
62	5310	MCS16	9.15	9.18	10	14.99	31.551	20.21 or 11+10log(B) = 27.38	PASS
102	5510	MCS16	13.3	13.9	13	19.00	79.427	20.21 or 11+10log(B) = 27.38	PASS
110	5550	MCS16	13.2	14	13	19.02	79.798	20.21 or 11+10log(B) = 27.36	PASS
134	5670	MCS16	13.7	13.8	13	19.03	79.977	20.21 or 11+10log(B) = 27.38	PASS
151	5755	MCS16	14.3	14.3	14	19.69	93.147	26.22878745	PASS
159	5795	MCS16	17.1	17	16	22.41	174.295	26.22878745	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)			TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2				
42	5210	MCS0	6.52	7.02	7.2	13.02	20.044	26.22878745	PASS
58	5290	MCS0	9.48	9.31	10	15.70	37.123	20.21 or 11+10log(B) = 30.35	PASS
106	5530	MCS0	9.47	9.98	9.6	15.79	37.898	20.21 or 11+10log(B) = 30.28	PASS
122	5610	MCS0	14.2	14.1	13	20.03	100.779	20.21 or 11+10log(B) = 30.32	PASS
155	5775	MCS0	8.95	8.84	8.5	14.87	30.700	26.22878745	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	✓	Mobile and portable client device	11dBm/ MHz
U-NII-2A	✓		11dBm/ MHz
U-NII-2C	✓		11dBm/ MHz
U-NII-3	✓		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below:

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	9.77	13.23	dBm/MHz
UNII-2A	9.77	7.23	dBm/MHz
U-NII-2C	9.77	7.23	dBm/MHz
U-NII-3	9.77	26.23	dBm/500 kHz

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10.2 Measurement Procedure

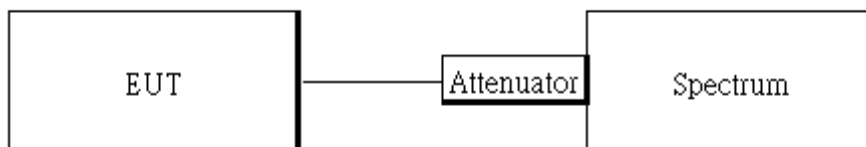
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. 802.11n/ac MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=3 for this given application.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE 3TX					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	-0.22	0.15	-0.07	13.23	-13.30
5220.00	-0.23	0.15	-0.08	13.23	-13.31
5240.00	-0.12	0.15	0.03	13.23	-13.20
5260.00	6.72	0.15	6.87	7.23	-0.36
5300.00	6.94	0.15	7.09	7.23	-0.14
5320.00	7.01	0.15	7.16	7.23	-0.07
5500.00	6.85	0.15	7.00	7.23	-0.23
5580.00	6.90	0.15	7.05	7.23	-0.18
5700.00	7.03	0.15	7.18	7.23	-0.05
5745.00	7.41	0.15	7.56	26.23	-18.67
5785.00	9.02	0.15	9.17	26.23	-17.06
5825.00	9.24	0.15	9.39	26.23	-16.84
POWER DENSITY 802.11n HT20 MODE MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	-0.49	0.45	-0.04	13.23	-13.27
5220	-0.65	0.45	-0.20	13.23	-13.43
5240	-0.51	0.45	-0.06	13.23	-13.29
5260	1.43	0.45	1.88	7.23	-5.35
5300	1.98	0.45	2.43	7.23	-4.80
5320	2.18	0.45	2.63	7.23	-4.60
5500	5.81	0.45	6.26	7.23	-0.97
5580	5.72	0.45	6.17	7.23	-1.06
5700	5.92	0.45	6.37	7.23	-0.86
5745	6.29	0.45	6.74	26.23	-19.49
5785	8.43	0.45	8.88	26.23	-17.35
5825	8.67	0.45	9.12	26.23	-17.11

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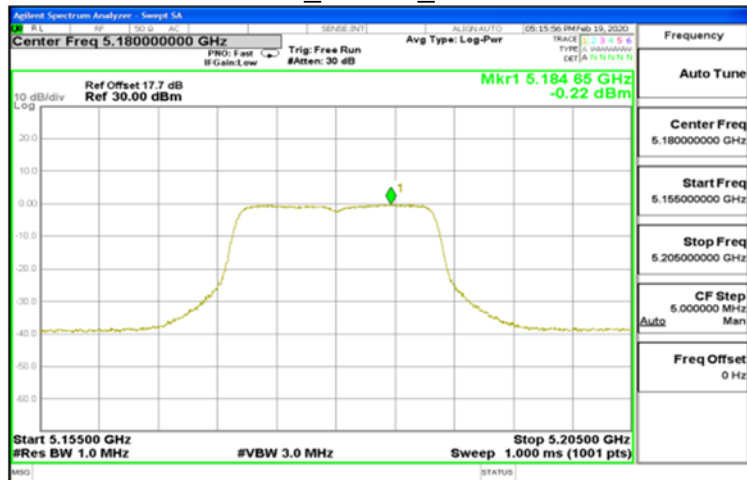
POWER DENSITY 802.11n HT40 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-1.67	0.76	-0.91	13.23	-14.13
5230	-1.56	0.76	-0.80	13.23	-14.02
5270	-1.22	0.76	-0.46	7.23	-7.68
5310	-0.94	0.76	-0.18	7.23	-7.40
5510	3.31	0.76	4.07	7.23	-3.15
5550	3.74	0.76	4.50	7.23	-2.72
5670	2.83	0.76	3.59	7.23	-3.63
5755	1.12	0.76	1.88	26.23	-24.34
5795	4.40	0.76	5.16	26.23	-21.06
POWER DENSITY 802.11ac VHT80 MODE_MIMO					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-5.32	1.33	-3.99	13.23	-17.22
5290	-3.95	1.33	-2.62	7.23	-9.85
5530	-2.99	1.33	-1.66	7.23	-8.89
5610	1.24	1.33	2.57	7.23	-4.66
5775	-7.11	1.33	-5.78	26.23	-32.01

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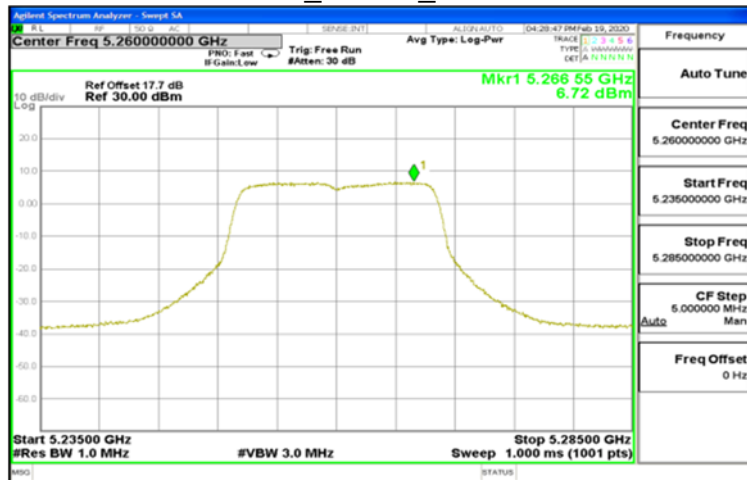
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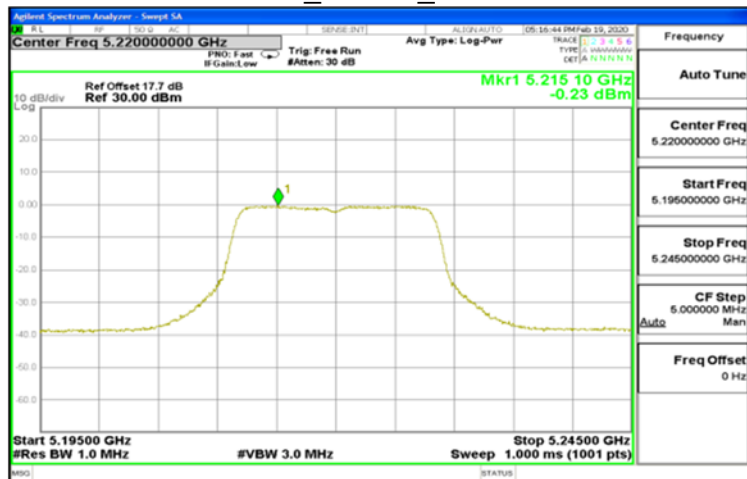
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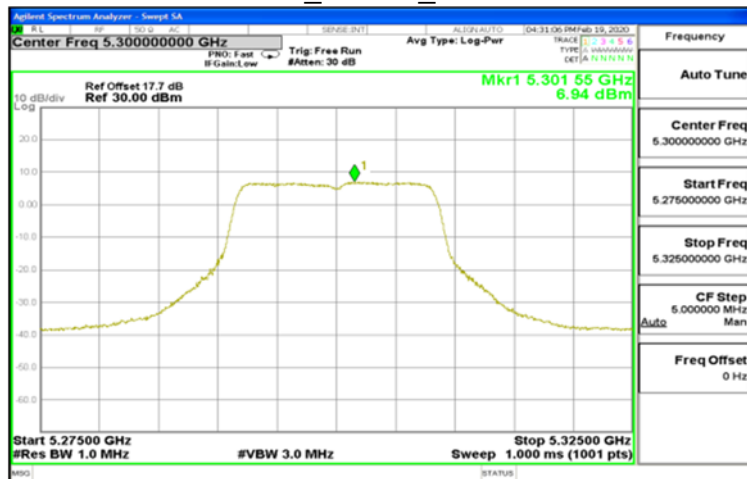
802.11a_20MHz_5260MHz



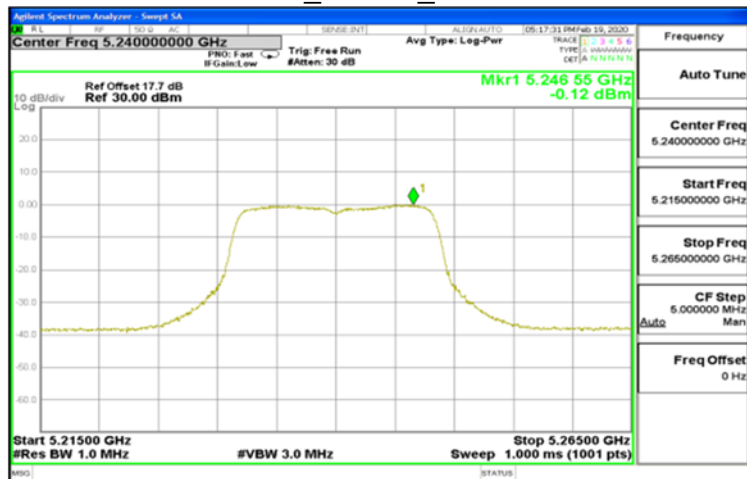
802.11a_20MHz_5220MHz



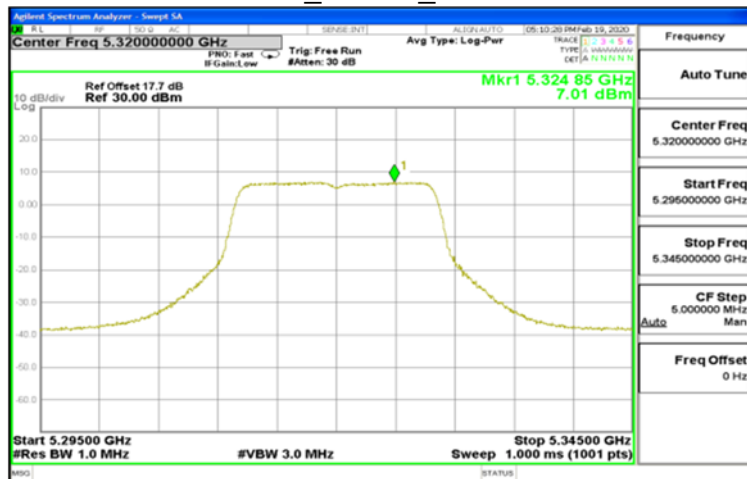
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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