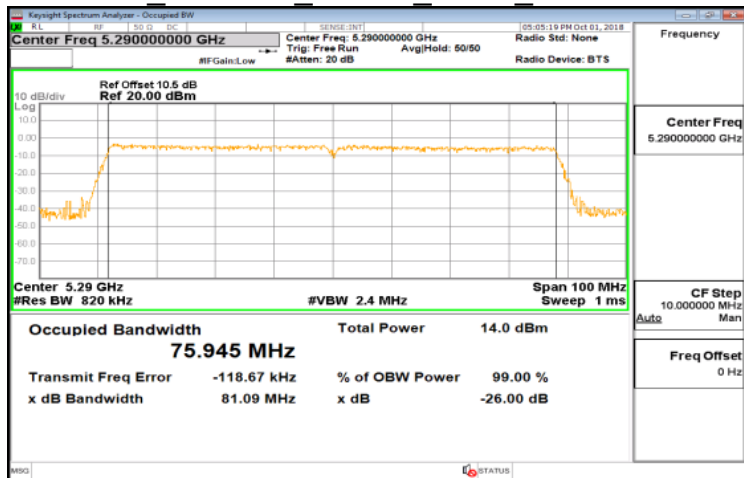
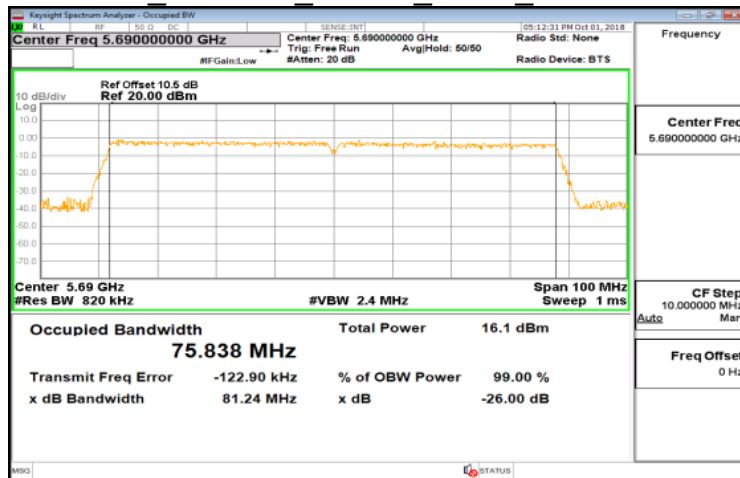


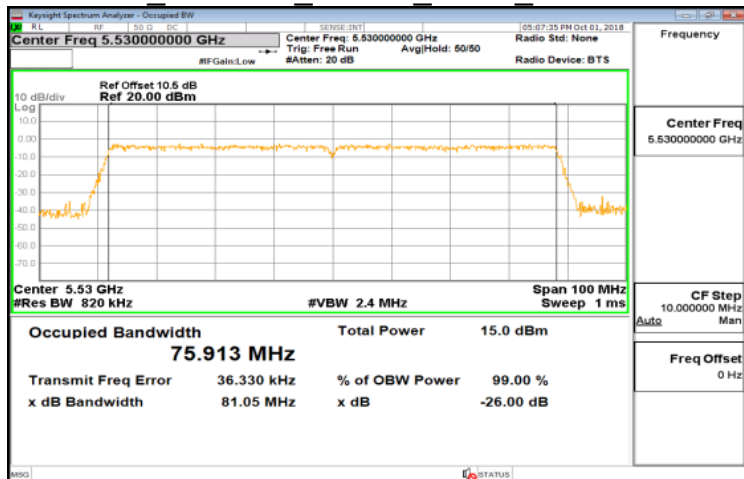
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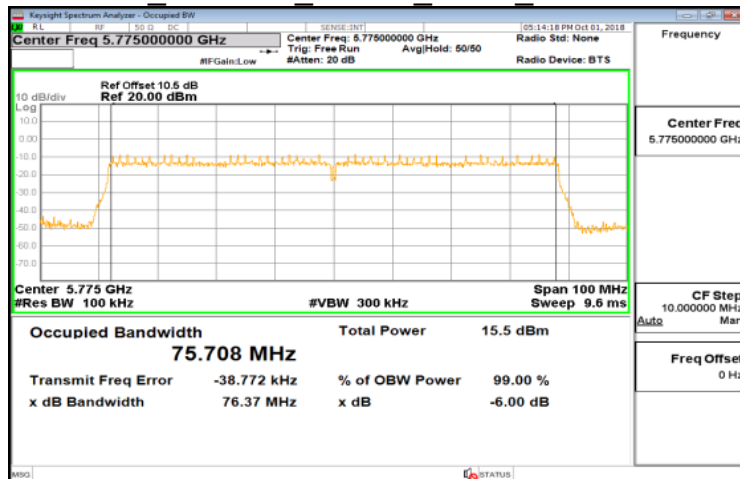
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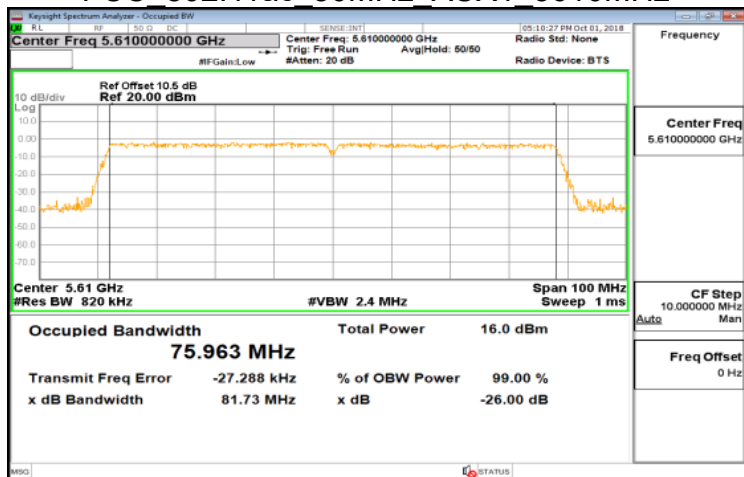
FCC 802.11ac 80MHz AUX1 5530MHz



FCC 802.11ac 80MHz AUX1 5775MHz



FCC 802.11ac 80MHz AUX1 5610MHz



FCC 802.11ac 80MHz Chain0 5690MHz



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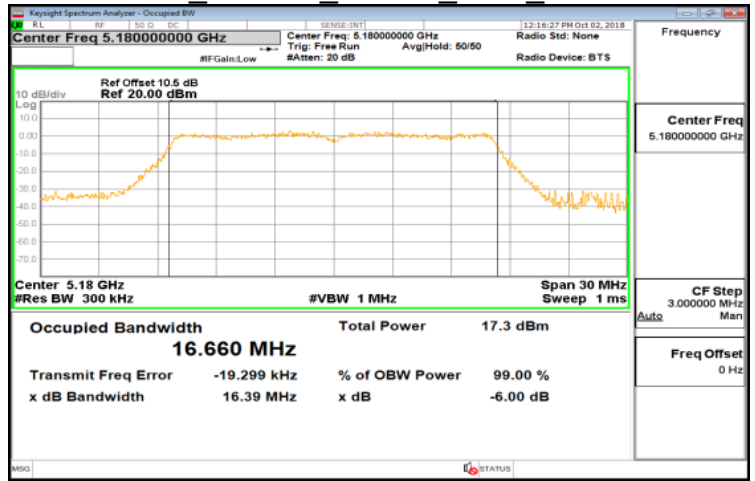
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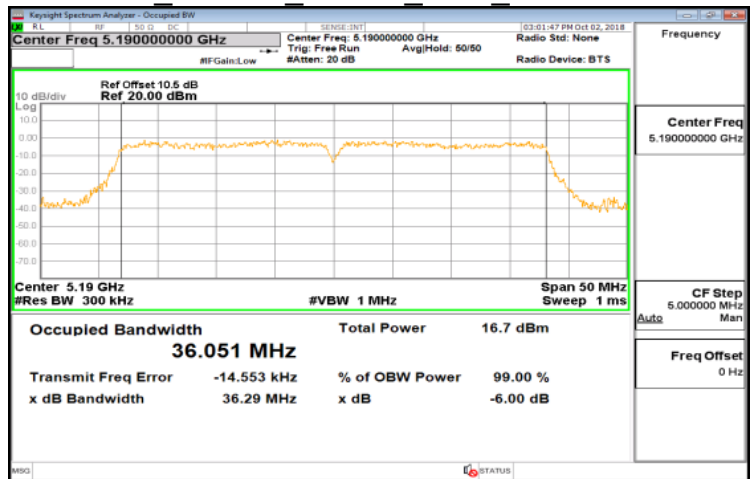
FCC 802.11ac 80MHz Chain1 5690MHz



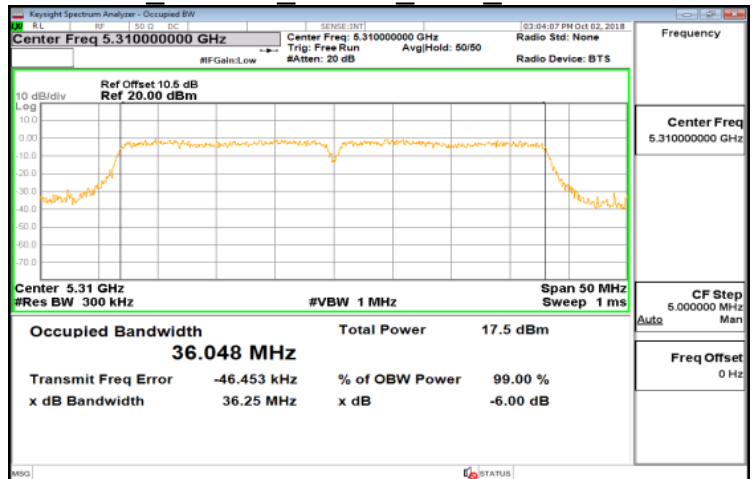
SISO IC 802.11n 20MHz Main 5700MHz



IC 802.11n 40MHz Main 5190MHz



IC 802.11n 40MHz Main 5310MHz



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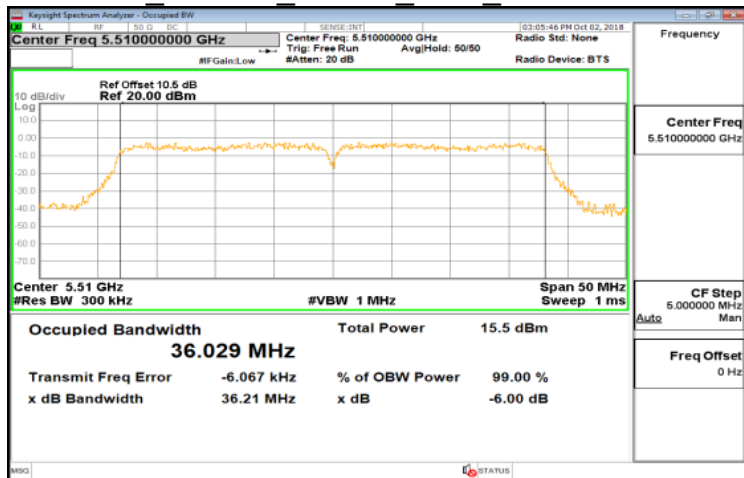
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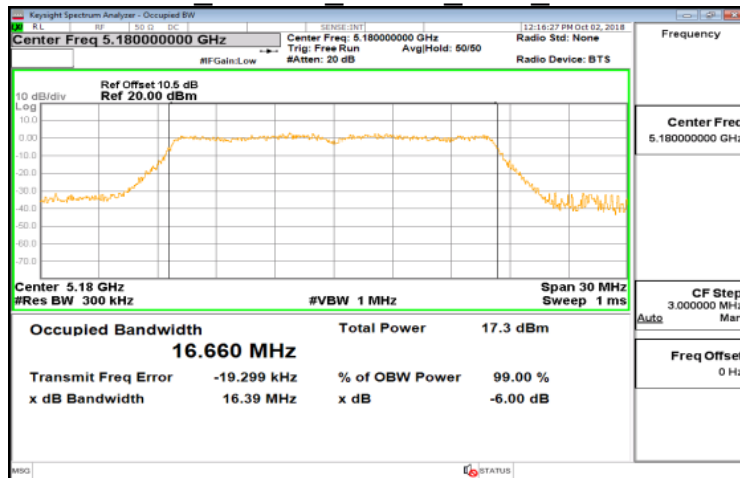
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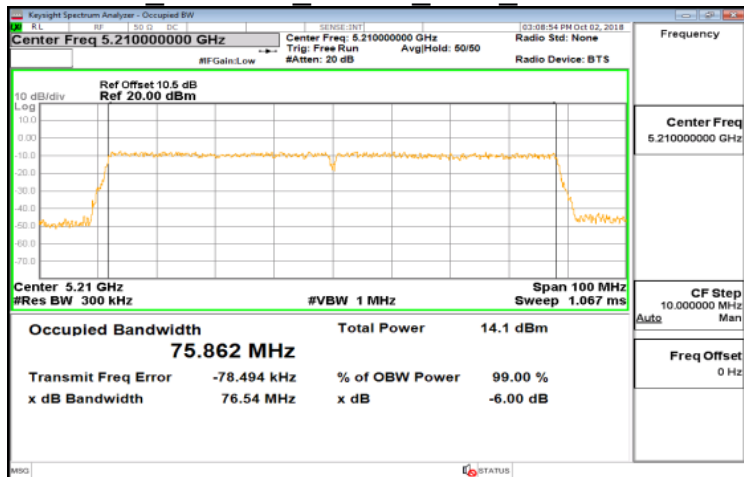
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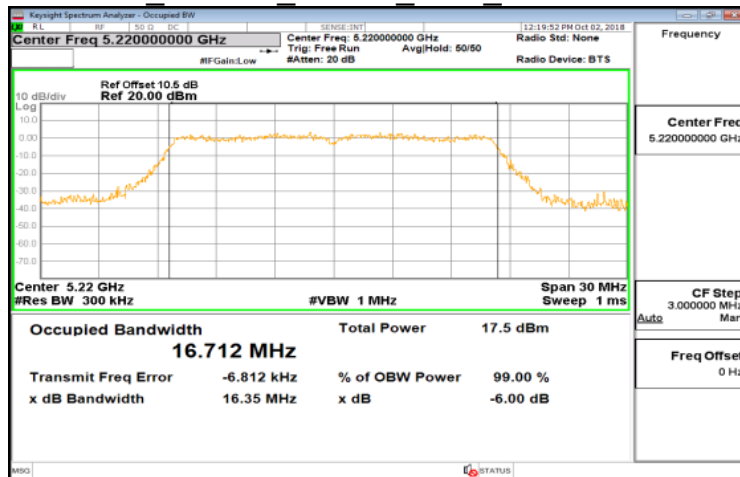
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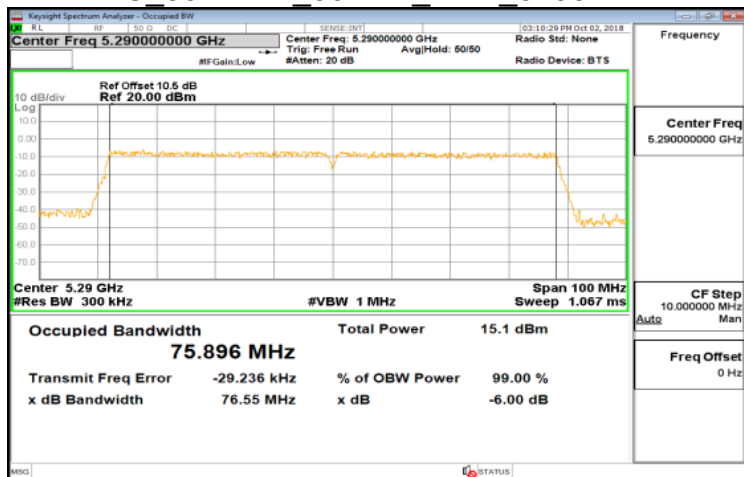
IC 802.11ac 80MHz Main 5210MHz



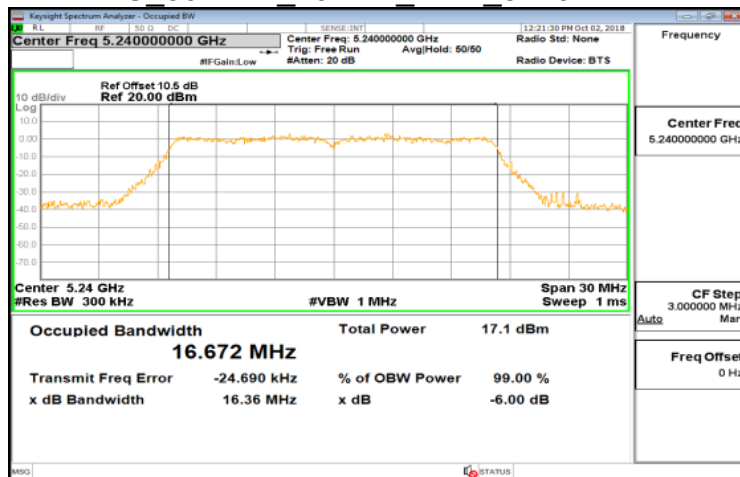
IC 802.11a 20MHz Main 5220MHz



IC 802.11ac 80MHz Main 5290MHz



IC 802.11a 20MHz Main 5240MHz



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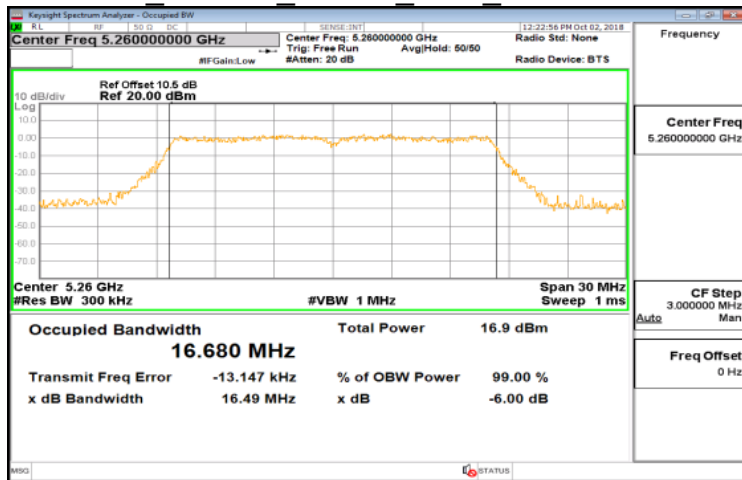
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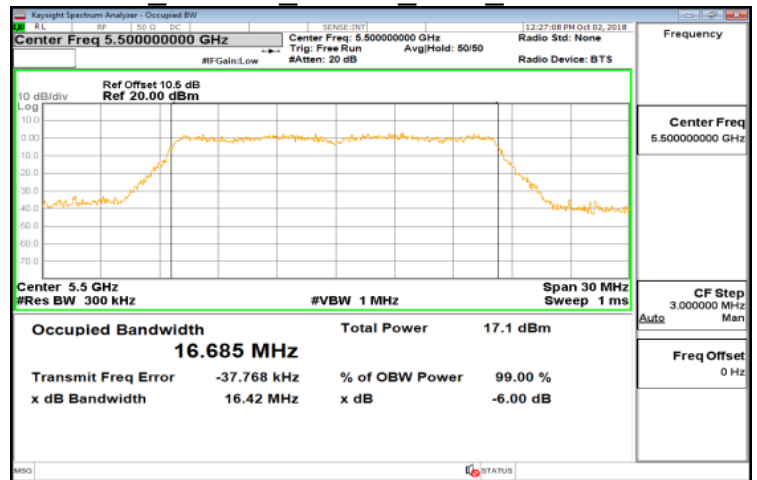
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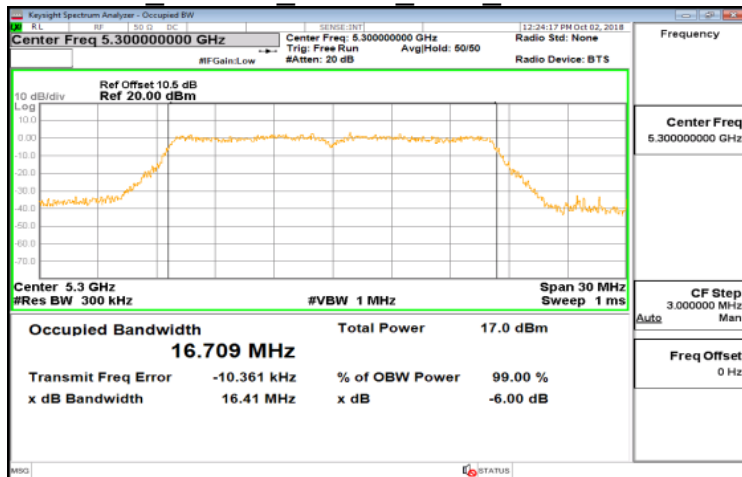
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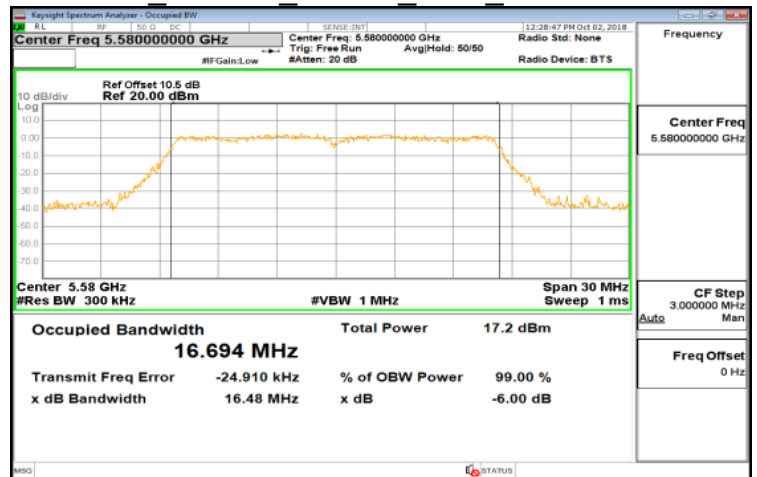
IC 802.11a 20MHz Main 5500MHz



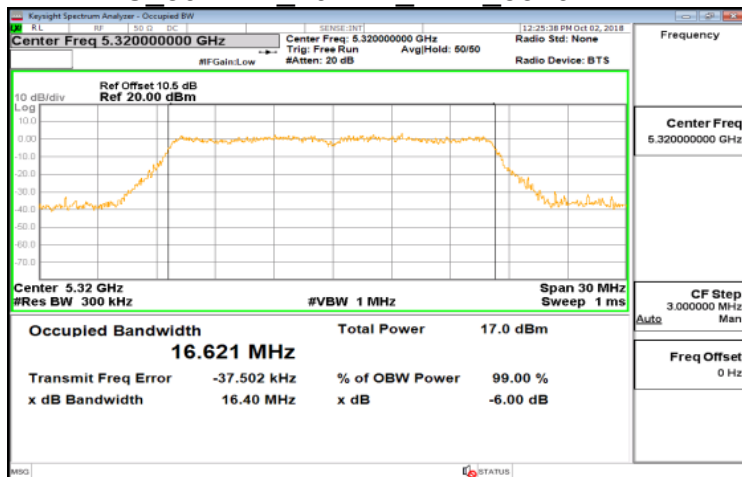
IC 802.11a 20MHz Main 5300MHz



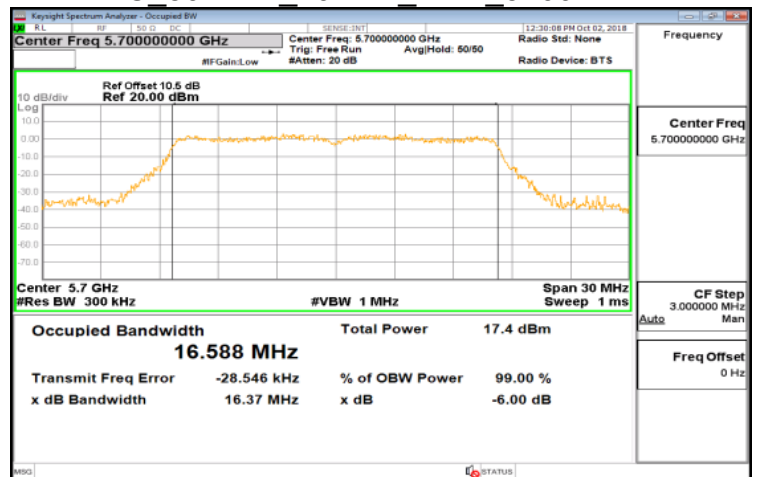
IC 802.11a 20MHz Main 5580MHz



IC 802.11a 20MHz Main 5320MHz



IC 802.11a 20MHz Main 5700MHz



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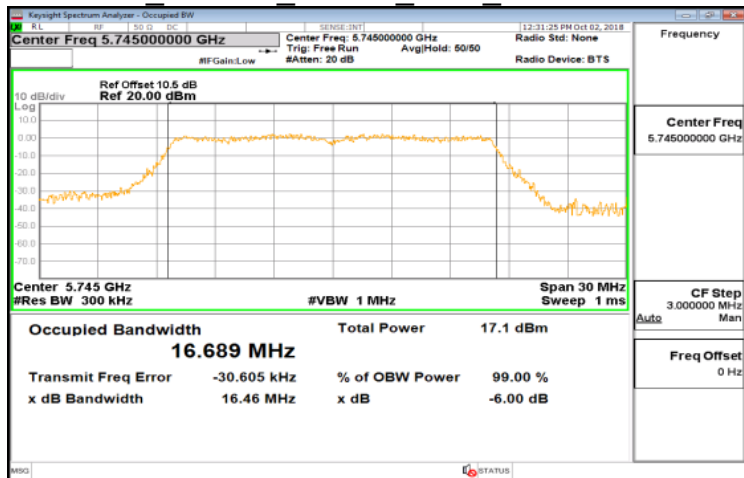
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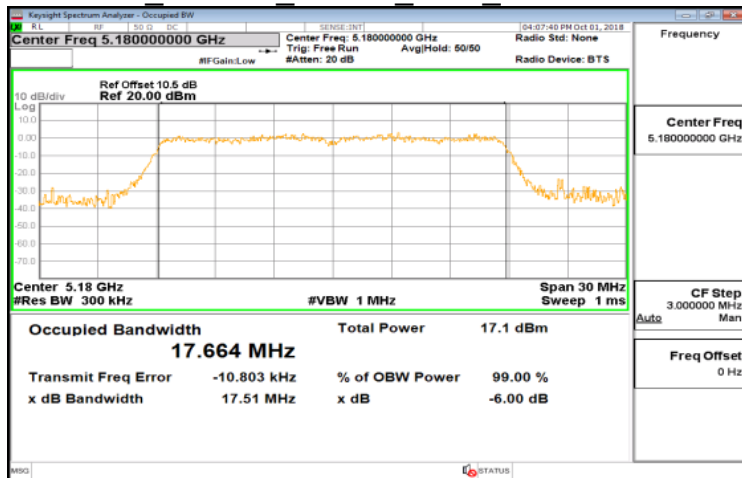
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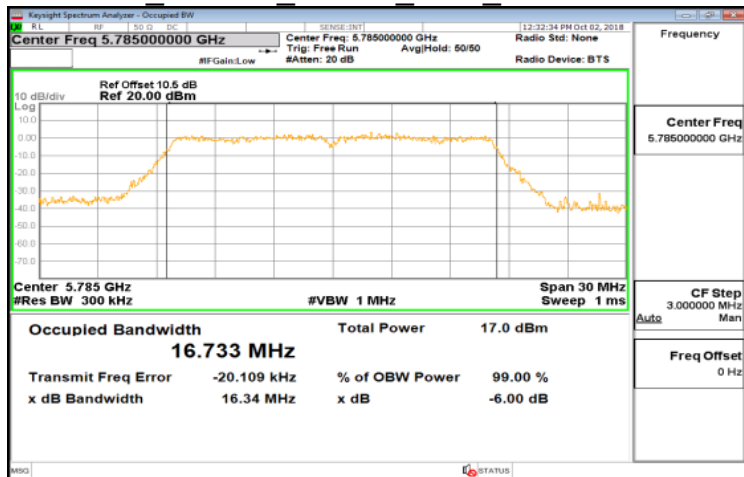
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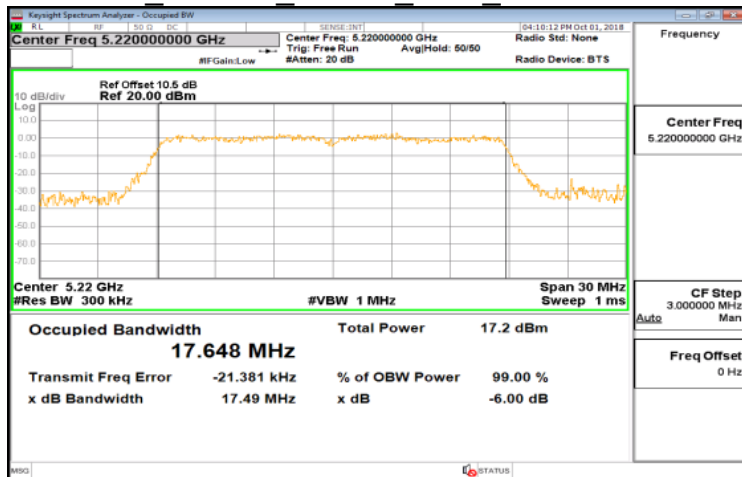
IC 802.11n 20MHz Main 5180MHz



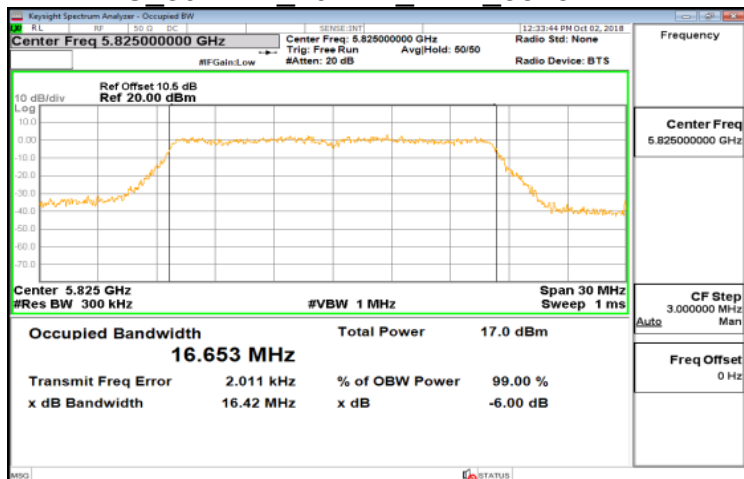
IC 802.11a 20MHz Main 5785MHz



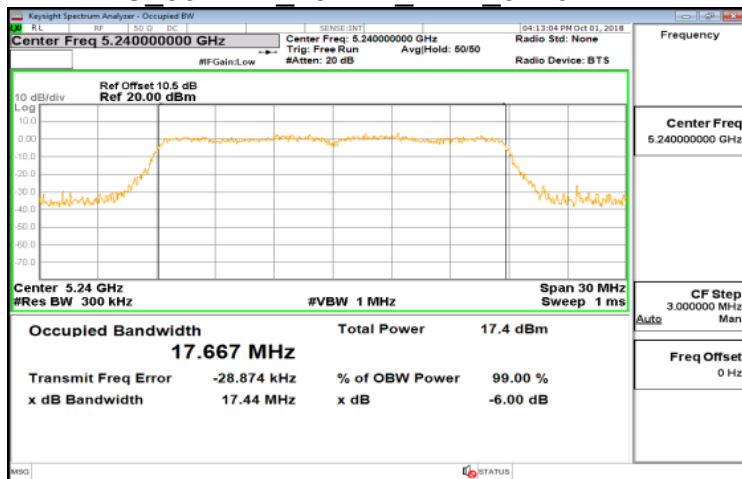
IC 802.11n 20MHz Main 5220MHz



IC 802.11a 20MHz Main 5825MHz



IC 802.11n 20MHz Main 5240MHz



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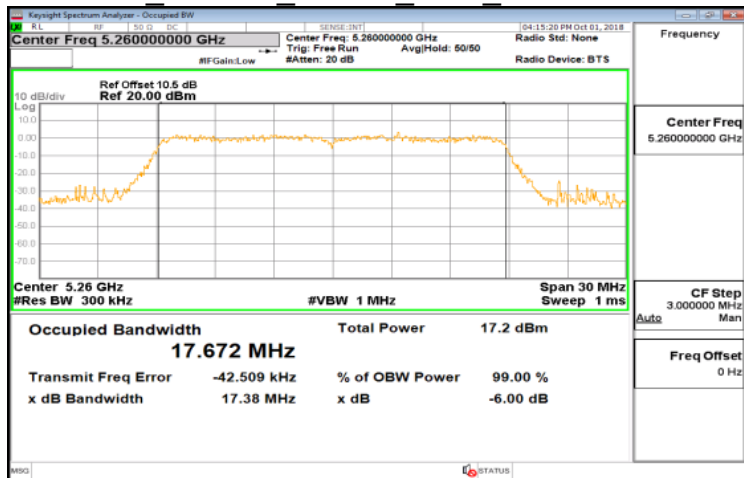
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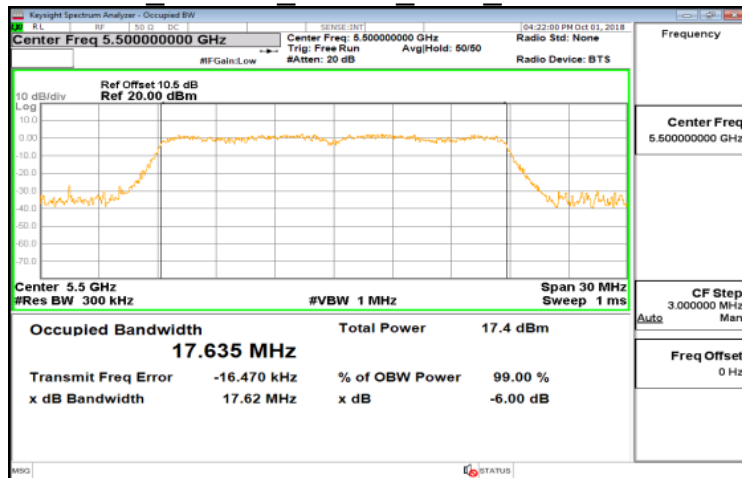
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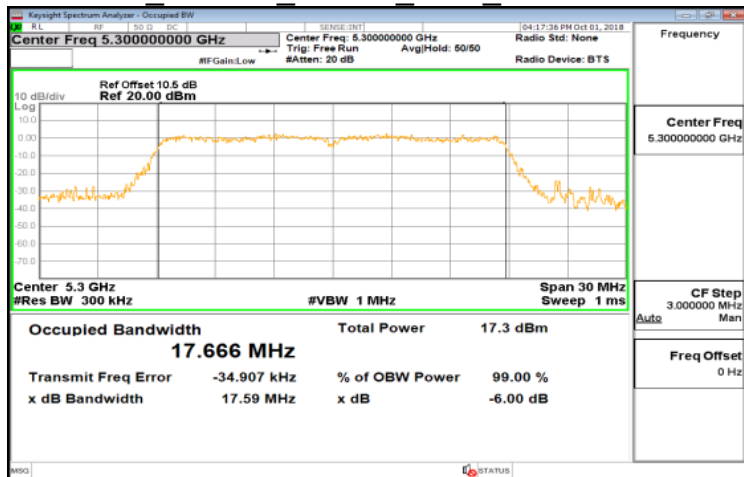
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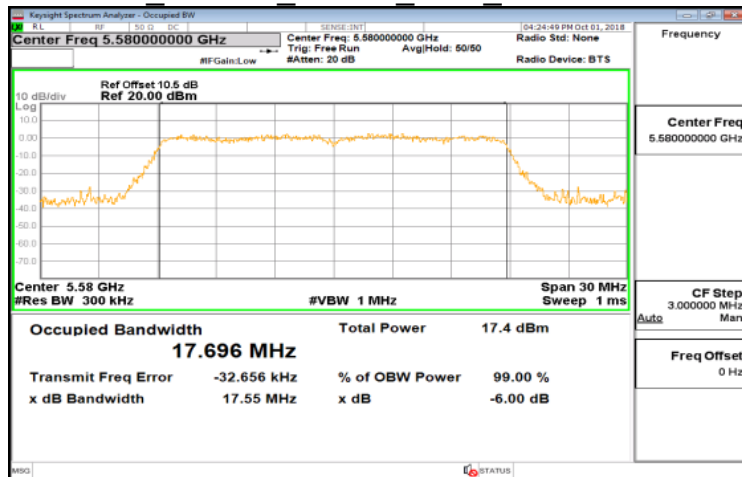
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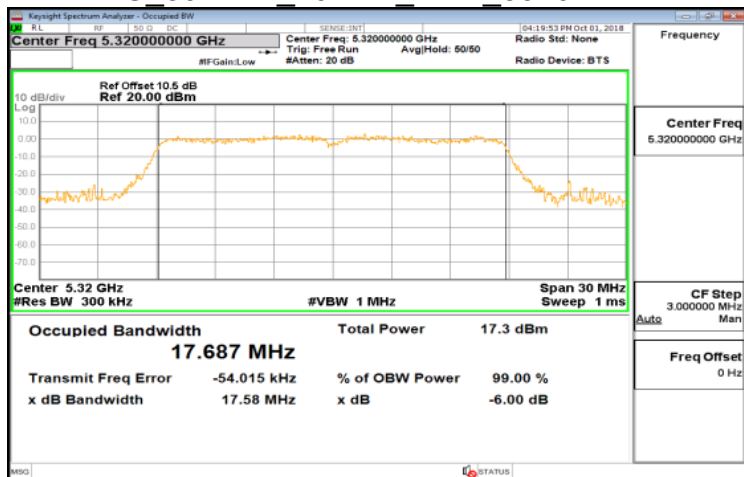
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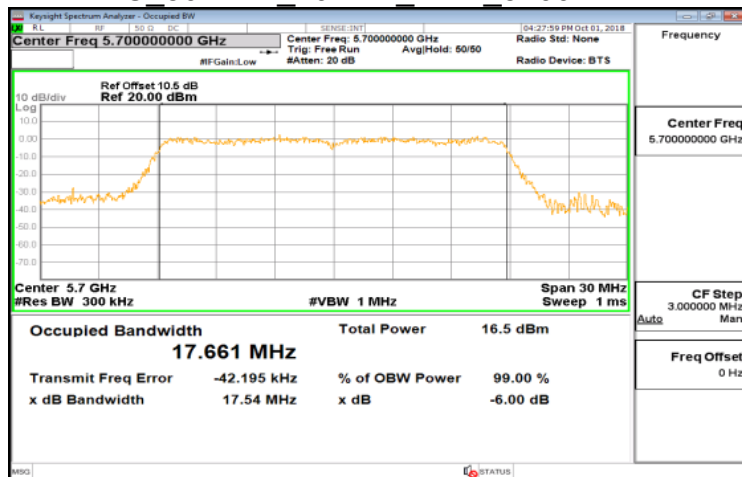
IC 802.11n 20MHz Main 5580MHz



IC 802.11n 20MHz Main 5320MHz



IC 802.11n 20MHz Main 5700MHz



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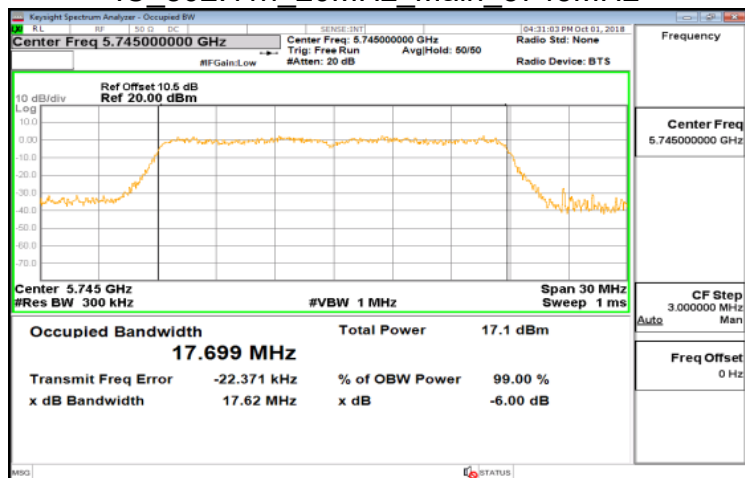
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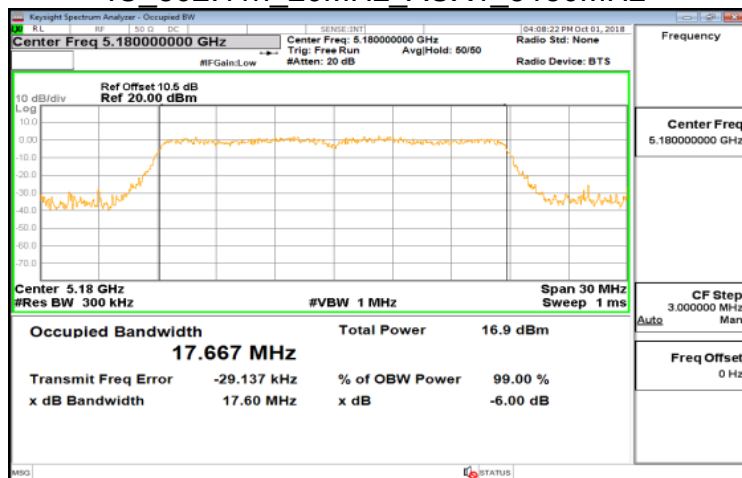
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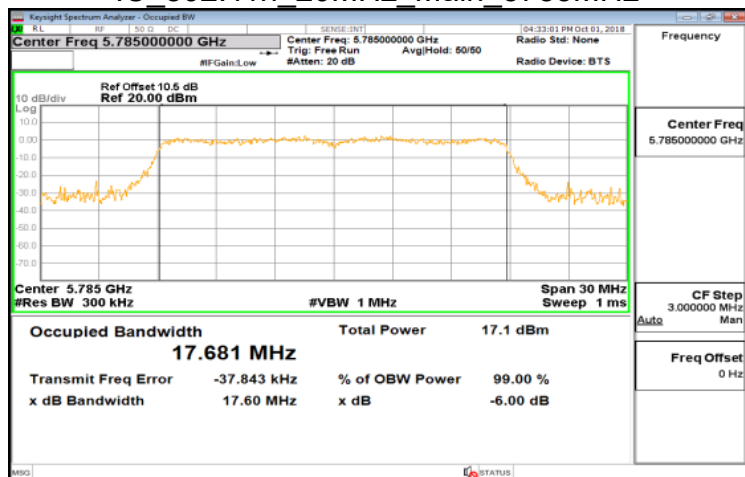
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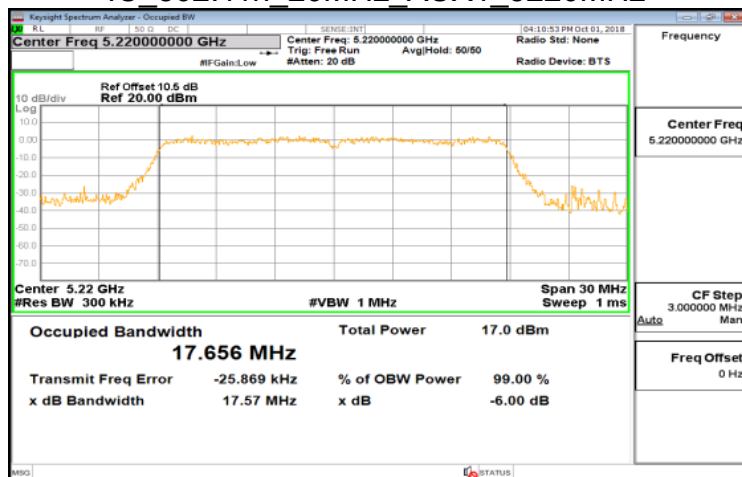
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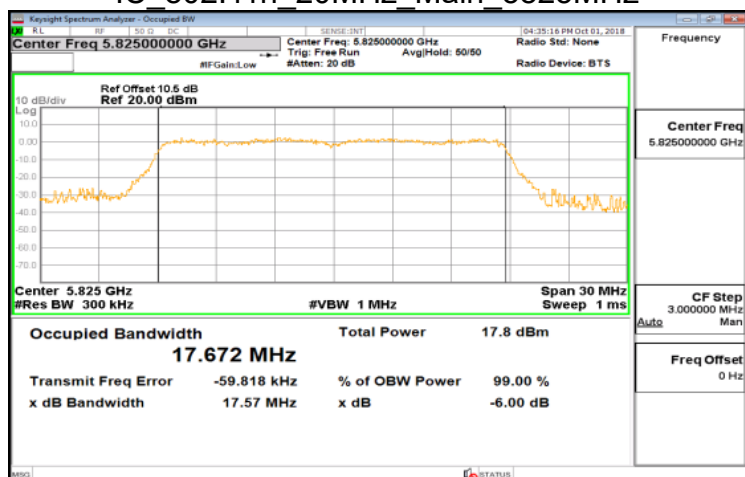
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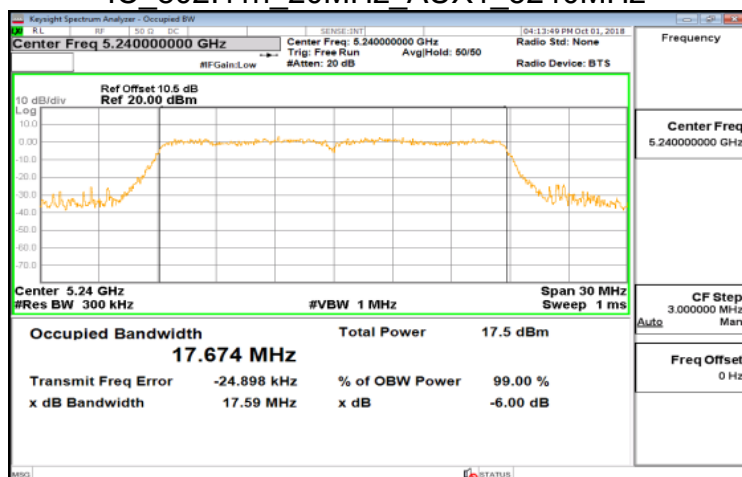
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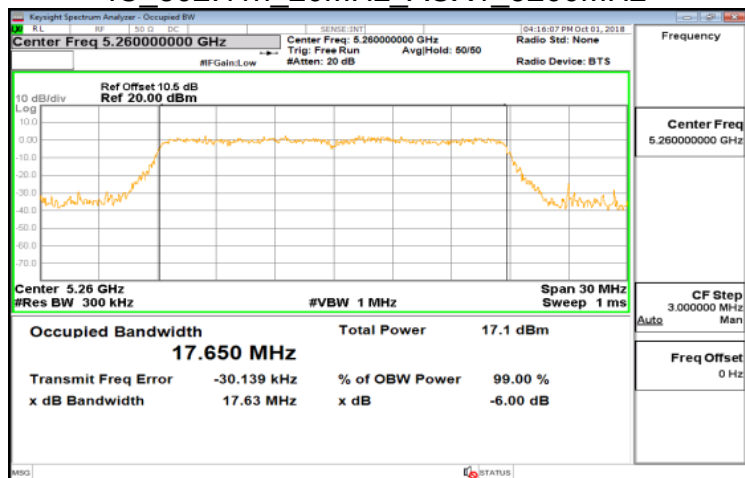


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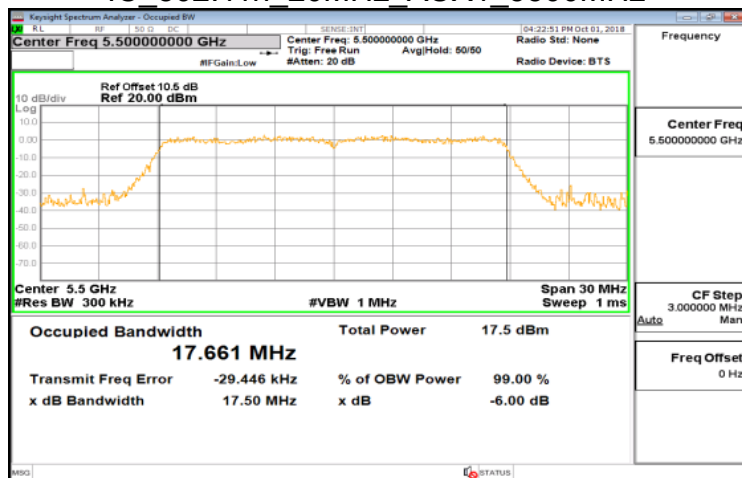
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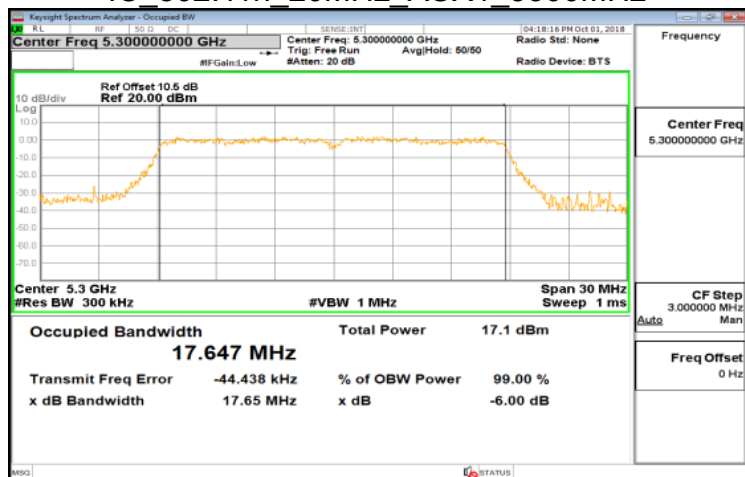
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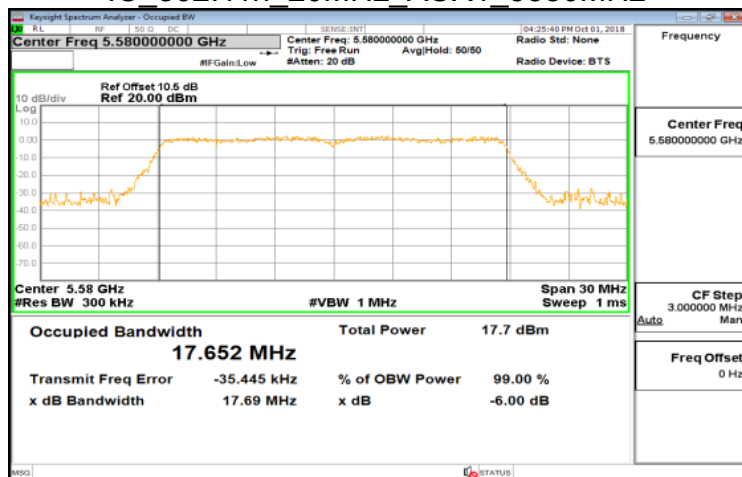
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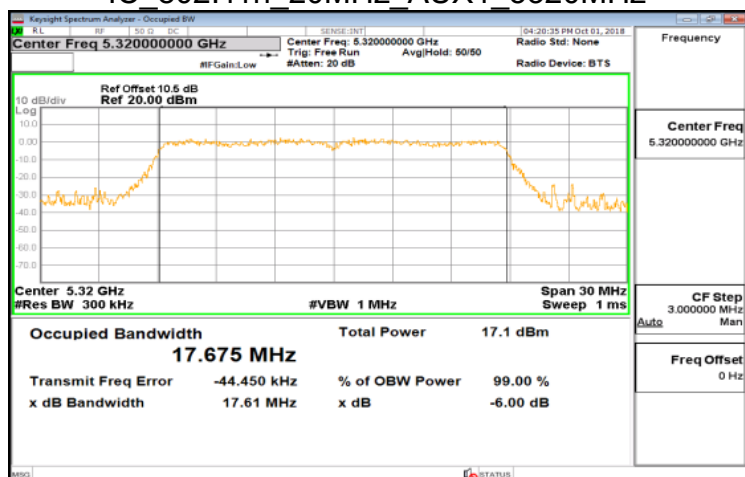
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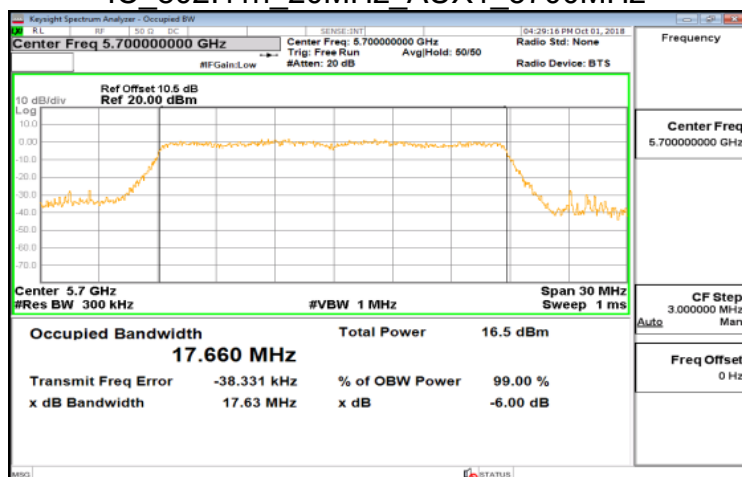
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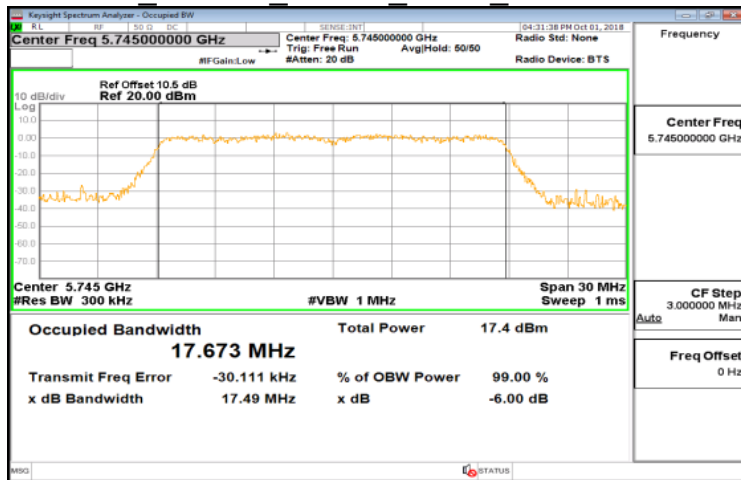


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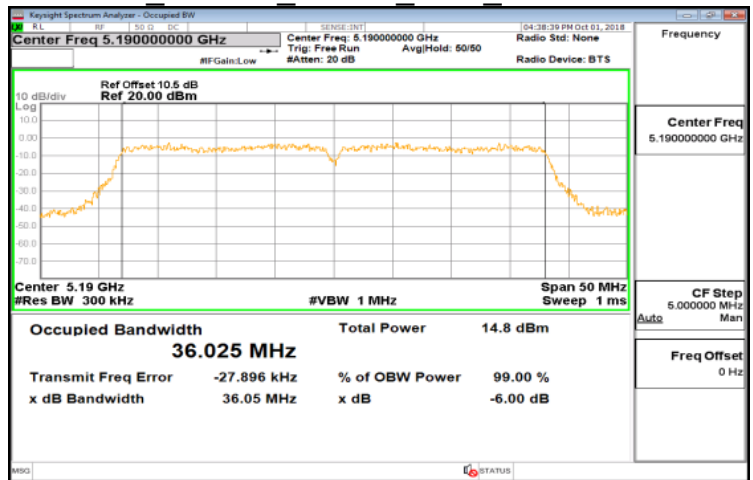
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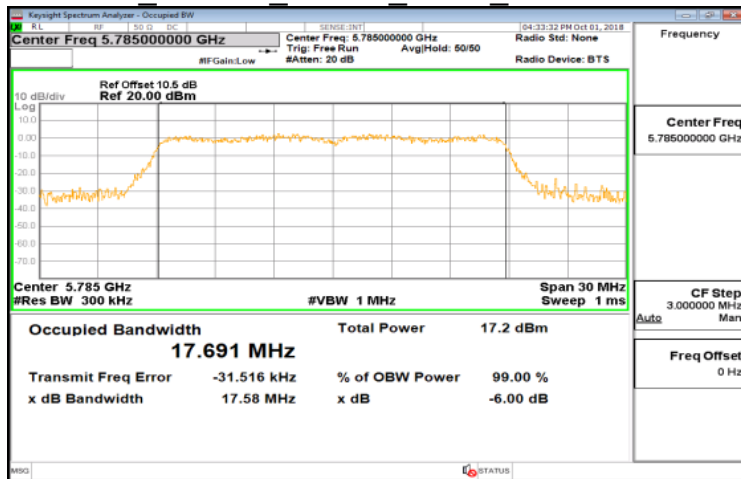
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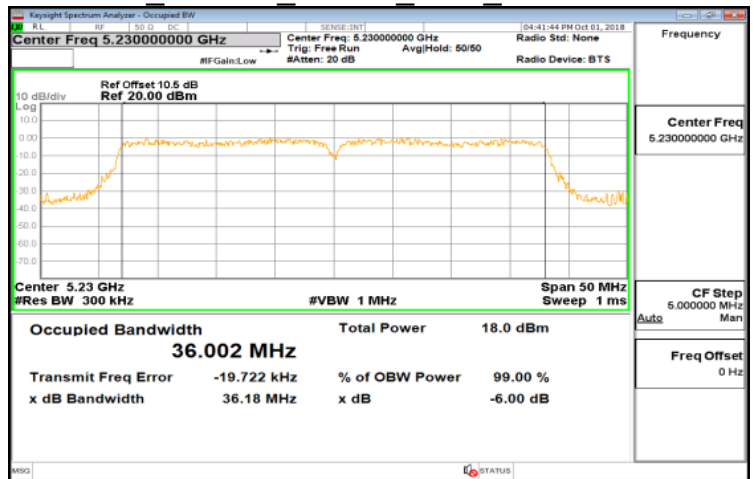
IC 802.11n 40MHz Main 5190MHz



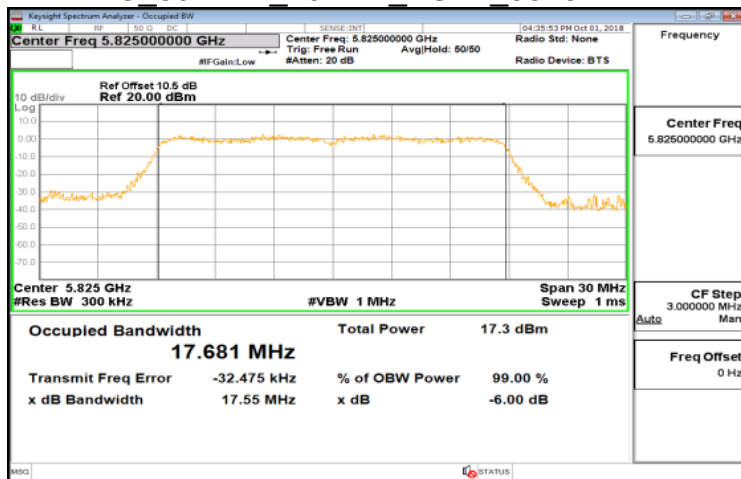
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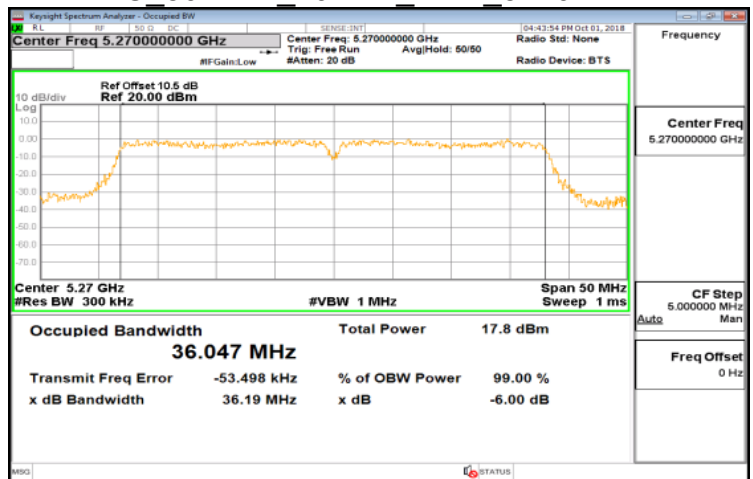
IC 802.11n 40MHz Main 5230MHz



IC 802.11n 20MHz AUX1 5825MHz



IC 802.11n 40MHz Main 5270MHz

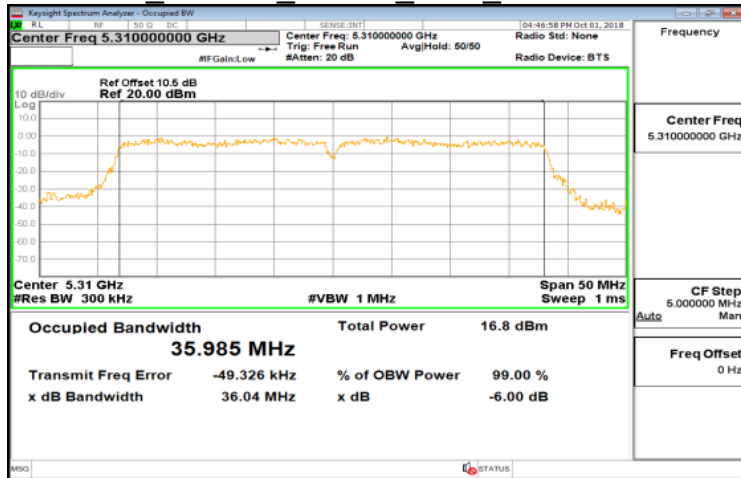


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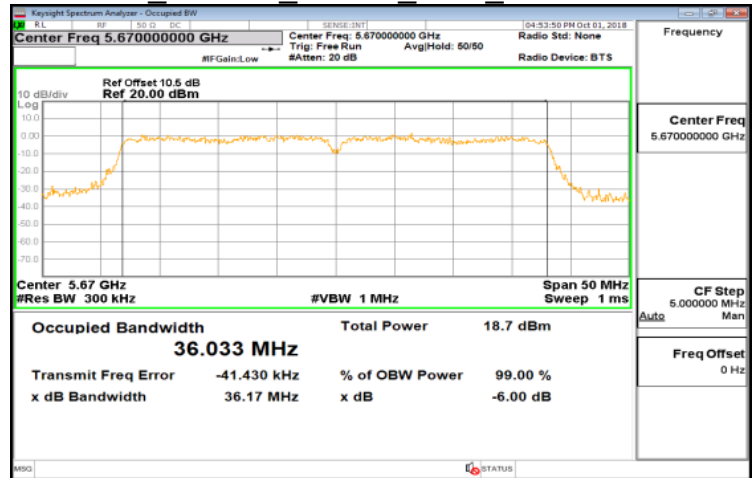
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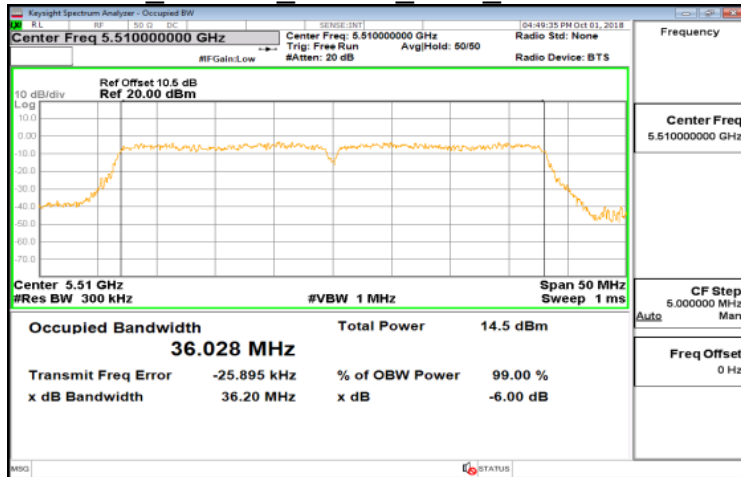
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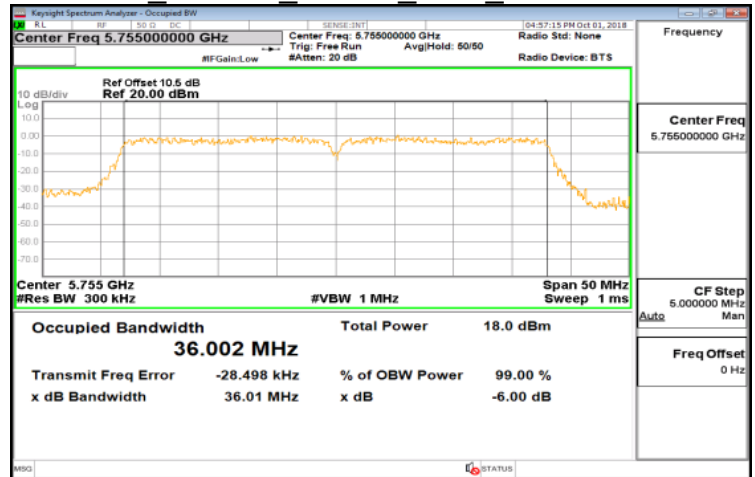
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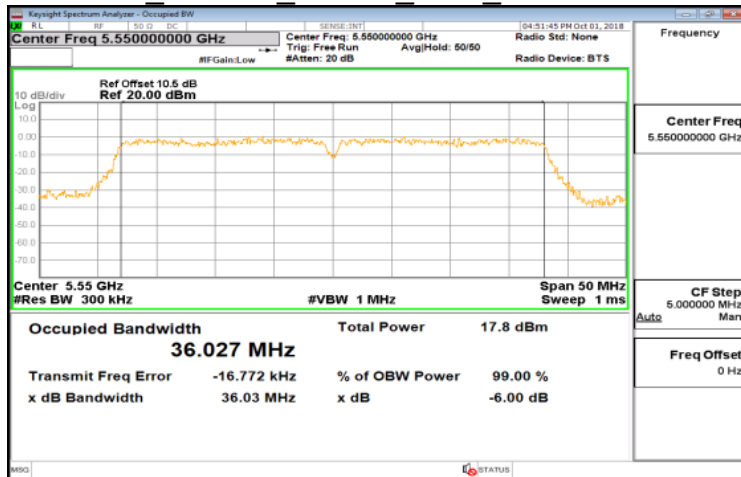
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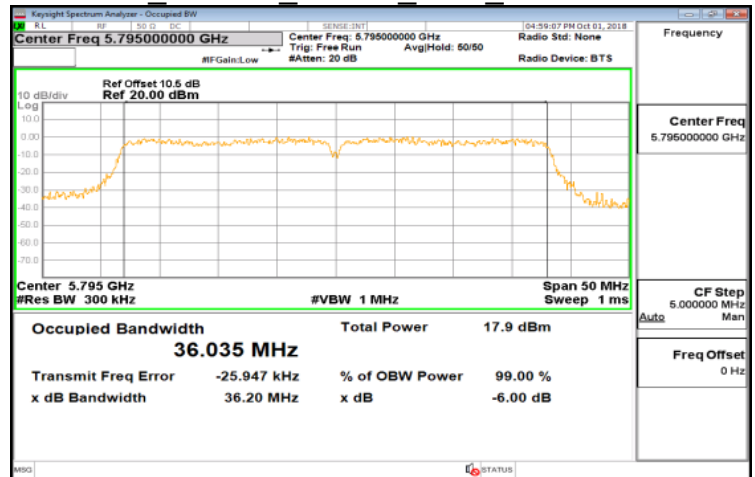
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IC 802.11n 40MHz Main 5550MHz



IC 802.11n 40MHz Main 5795MHz

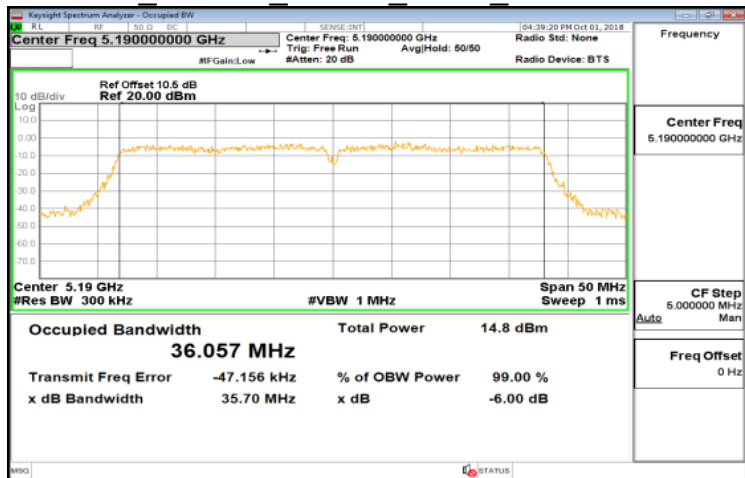


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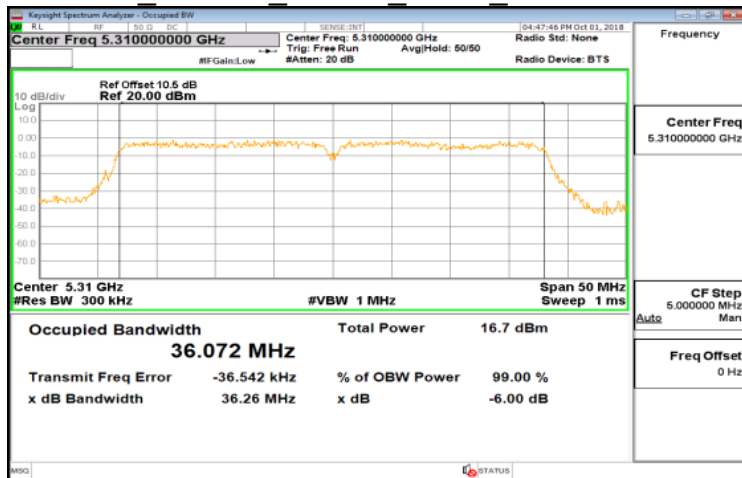
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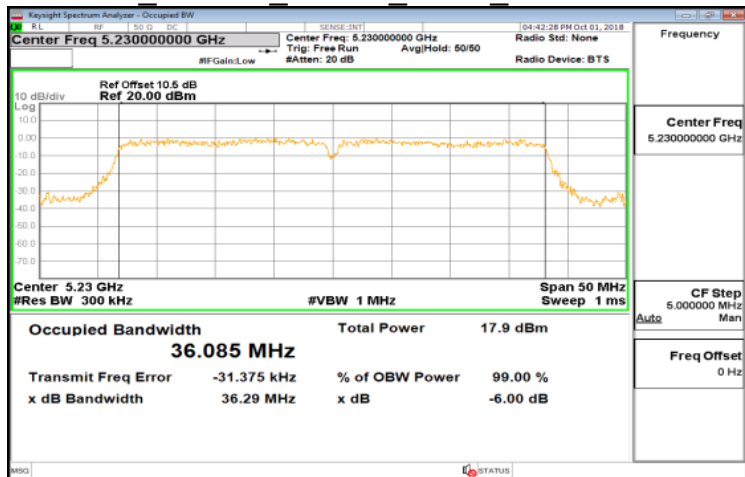
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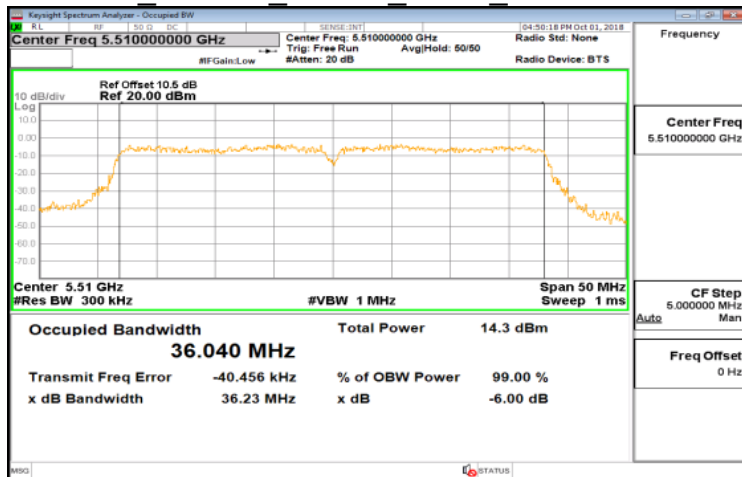
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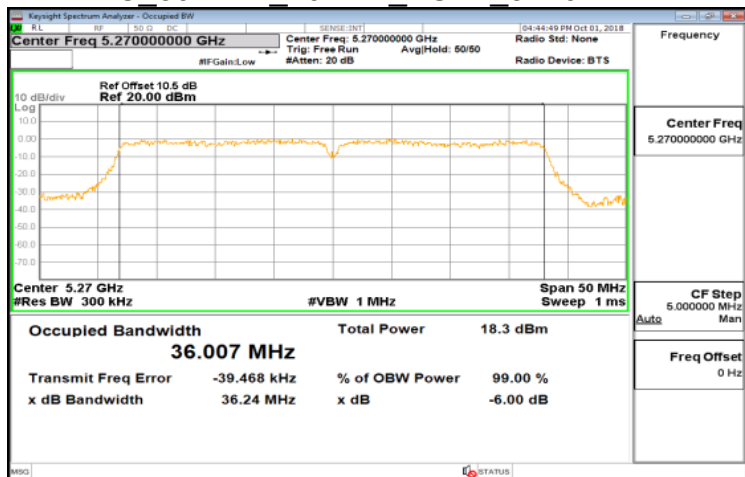
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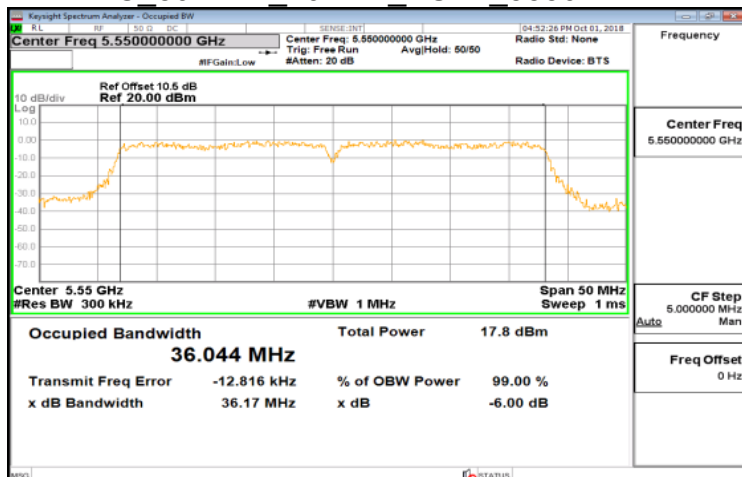
IC 802.11n 40MHz AUX1 5510MHz



IC 802.11n 40MHz AUX1 5270MHz



IC 802.11n 40MHz AUX1 5550MHz



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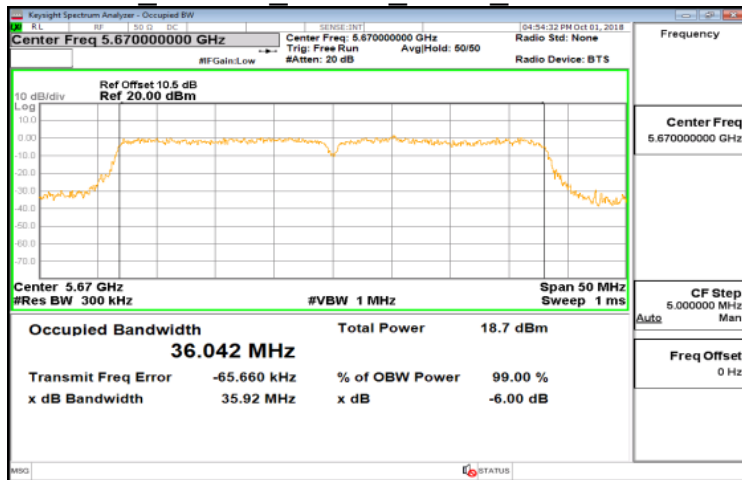
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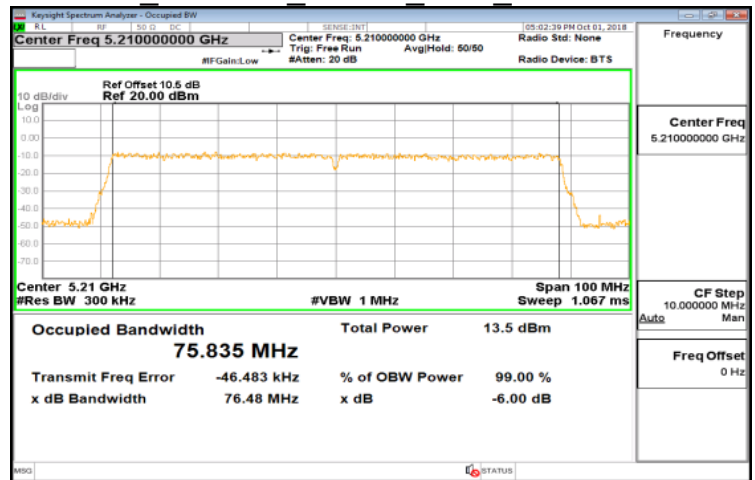
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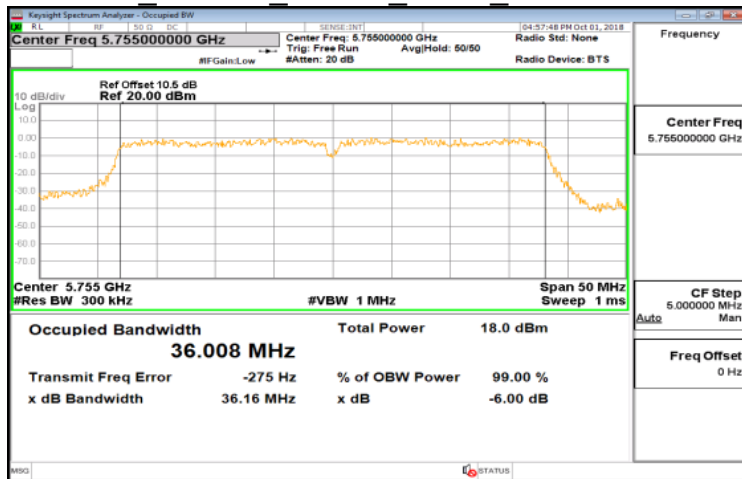
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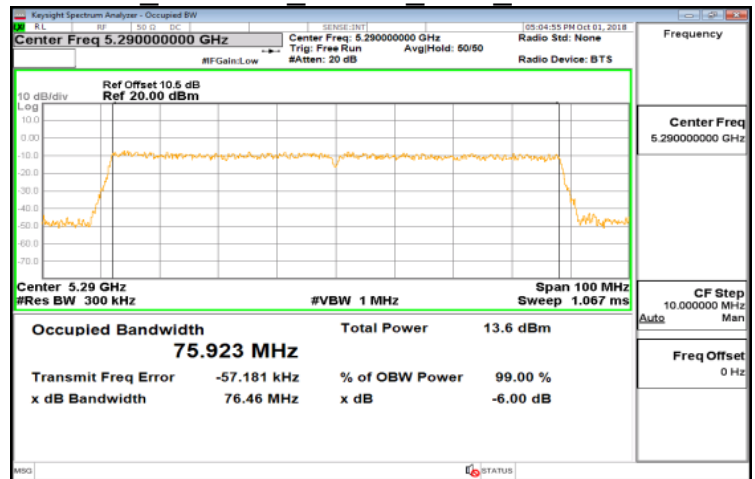
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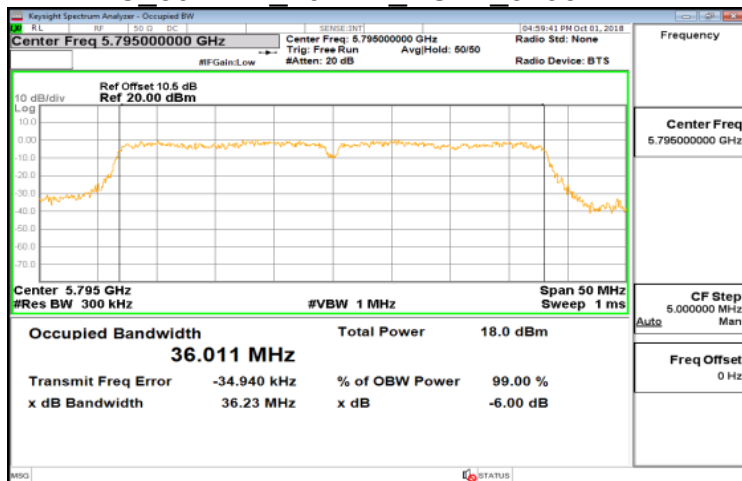
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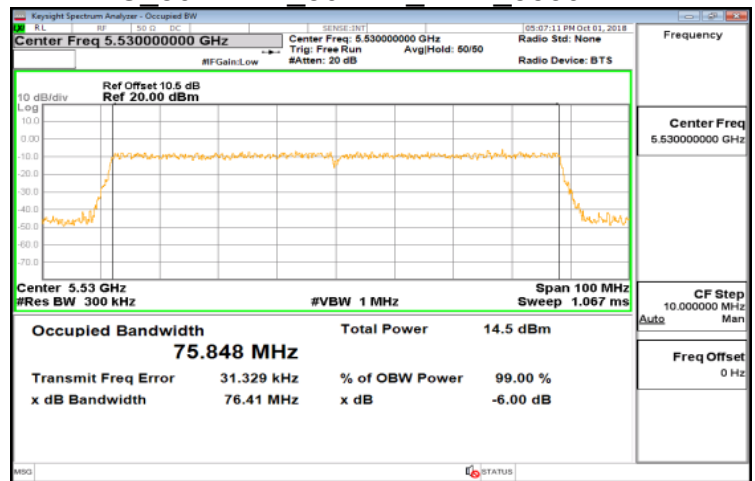
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IC 802.11n 40MHz AUX1 5795MHz



IC 802.11ac 80MHz Main 5530MHz

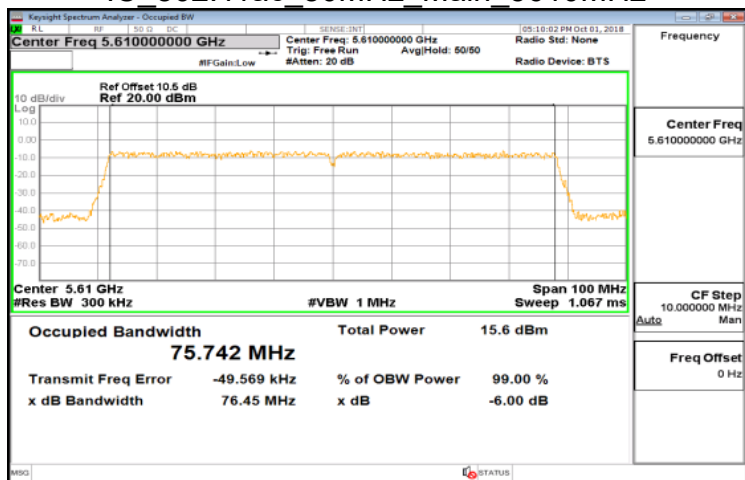


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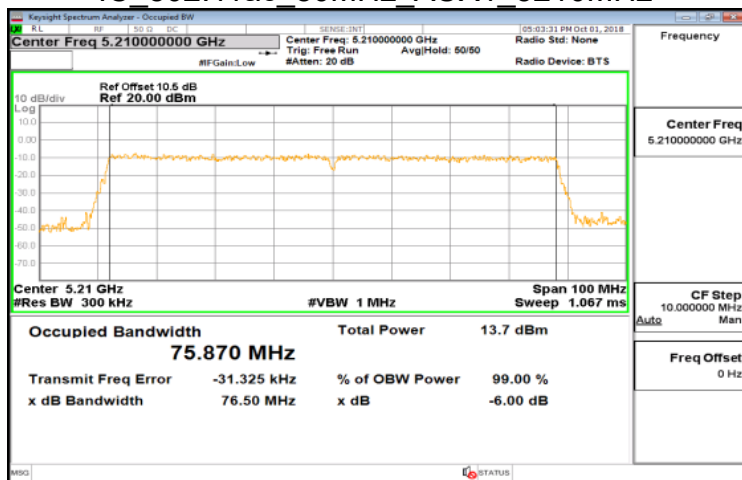
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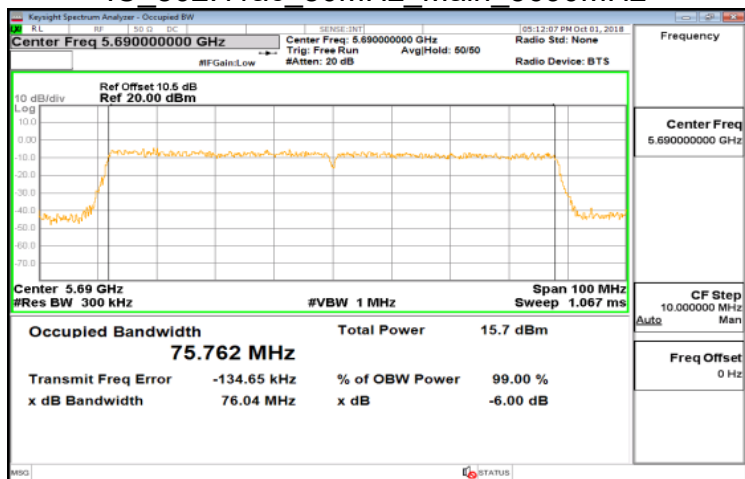
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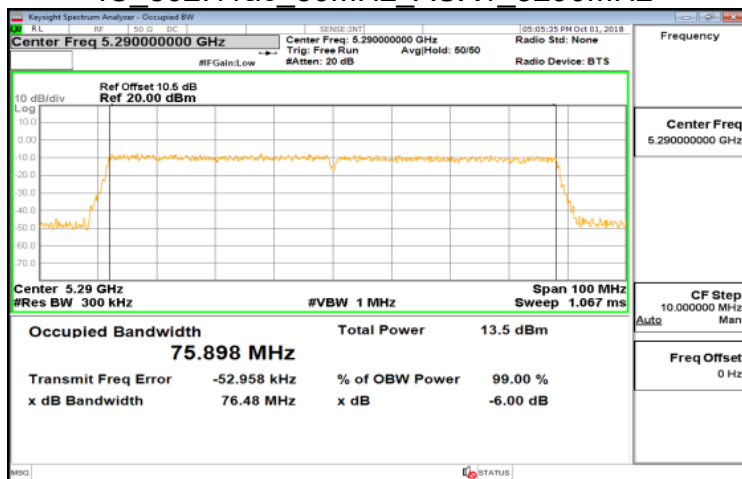
IC 802.11ac 80MHz AUX1 5210MHz



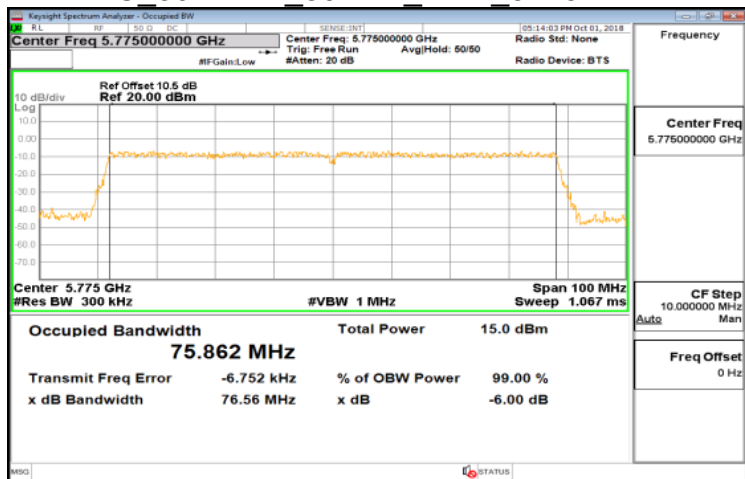
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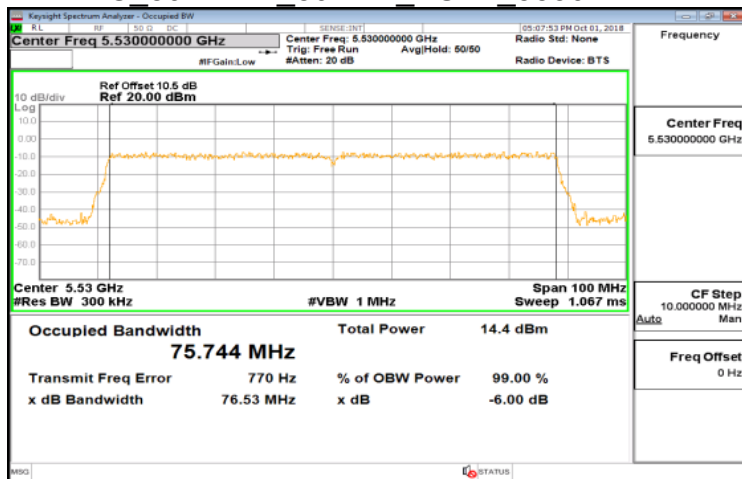
IC 802.11ac 80MHz AUX1 5290MHz



IC 802.11ac 80MHz Main 5775MHz



IC 802.11ac 80MHz AUX1 5530MHz



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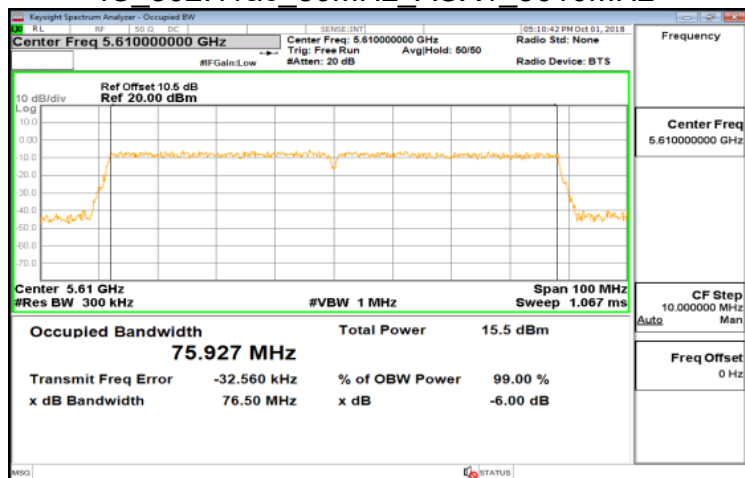
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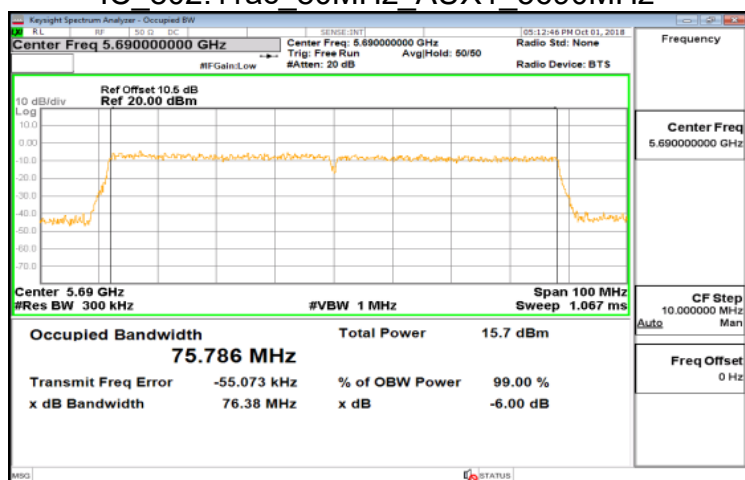
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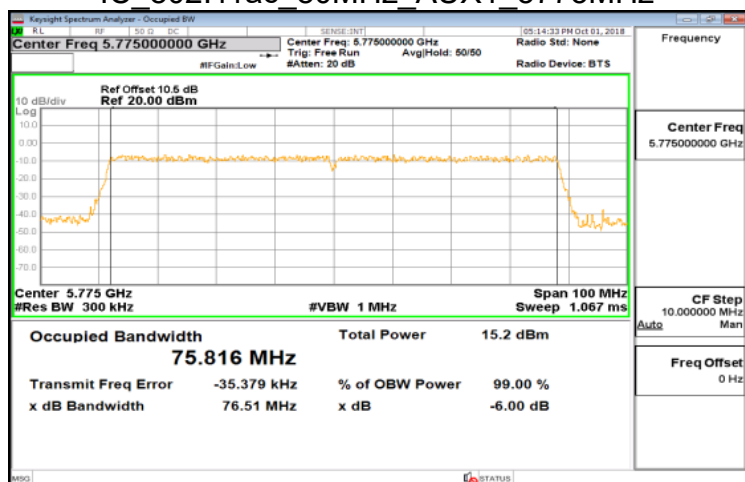
IC 802.11ac 80MHz AUX1 5610MHz



IC 802.11ac 80MHz AUX1 5690MHz



IC 802.11ac 80MHz AUX1 5775MHz



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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.			

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W
For equipment operating in the band 5725-5850 MHz, 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 directional gain of the antenna exceeds 6 dBi.	

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Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi.

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

$$= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

[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 not greater than 6 dBi. Therefore, reduction of power is not required.

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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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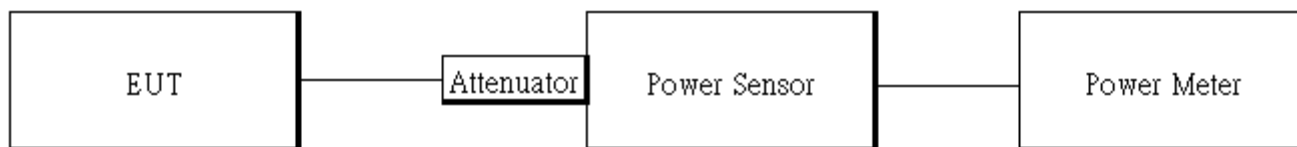
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9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1804001	2018/02/01	2019/01/31
Power Sensor	Anritsu	MA2411B	1726104	2018/02/01	2019/01/31
Power Sensor	Anritsu	MA2411B	1726107	2018/02/01	2019/01/31
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01
Notebook	Lenovo	L430	R9-WGNK5	N/A	N/A

9.4 Test Set-up



9.5 Measurement Result

Conducted output power (FCC)

SISO

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)		RESULT
140	5700	MCS0	12.68	23.98	or $11+10\log(B) = 23.85$	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.25	23.98	PASS
62	5310	MCS0	12.42	23.98 or $11+10\log(B) = 26.81$	PASS
102	5510	MCS0	10.31	23.98 or $11+10\log(B) = 26.82$	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	8.37	23.98	PASS
58	5290	MCS0	9.34	23.98 or $11+10\log(B) = 29.98$	PASS

MIMO

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.36	23.98	PASS
44	5220	6	12.48	23.98	PASS
48	5240	6	12.38	23.98	PASS
52	5260	6	12.47	23.98 or $11+10\log(B) = 23.72$	PASS
60	5300	6	12.51	23.98 or $11+10\log(B) = 23.71$	PASS
64	5320	6	12.29	23.98 or $11+10\log(B) = 23.67$	PASS
100	5500	6	12.17	23.98 or $11+10\log(B) = 23.70$	PASS
116	5580	6	12.20	23.98 or $11+10\log(B) = 23.68$	PASS
140	5700	6	12.35	23.98 or $11+10\log(B) = 23.66$	PASS
144	5720(U-NII 2C)	6	9.752532	23.98 or $11+10\log(B) = 22.69$	PASS
144	5720 (U-NII 3)	6	3.171555	30	PASS
149	5745	6	12.42	30	PASS
157	5785	6	12.05	30	PASS
165	5825	6	12.07	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH 3			
36	5180	MCS8	12.7	12.6	0	0	15.79	23.98	PASS
44	5220	MCS8	12.8	12.7	0	0	15.83	23.98	PASS
48	5240	MCS8	12.6	12.2	0	0	15.51	23.98	PASS
52	5260	MCS8	12.6	12.5	0	0	15.63	23.98 or $11+10\log(B) = 24.01$	PASS
60	5300	MCS8	12.4	12.3	0	0	15.42	23.98 or $11+10\log(B) = 23.97$	PASS
64	5320	MCS8	12.2	12.1	0	0	15.26	23.98 or $11+10\log(B) = 23.86$	PASS
100	5500	MCS8	12.4	12.2	0	0	15.40	23.98 or $11+10\log(B) = 23.91$	PASS
116	5580	MCS8	12.3	12.2	0	0	15.35	23.98 or $11+10\log(B) = 23.95$	PASS
140	5700	MCS8	11.4	11.4	0	0	14.49	23.98 or $11+10\log(B) = 23.97$	PASS
144	5720(U-NII 2C)	MCS8	9.5	8.93	####	####	11.61	23.98 or $11+10\log(B) = 22.70$	PASS
144	5720 (U-NII 3)	MCS8	3.05	2.96	####	####	3.73	30	PASS
149	5745	MCS8	12	12.3	0	0	15.27	30	PASS
157	5785	MCS8	12	12.3	0	0	15.26	30	PASS
165	5825	MCS8	12.1	12.3	0	0	15.32	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH 3			
38	5190	MCS8	9.29	8.97	0	0	12.33	23.98	PASS
46	5230	MCS8	12.6	12.3	0	0	15.64	23.98	PASS
54	5270	MCS8	12.4	12.2	0	0	15.49	23.98 or $11+10\log(B) = 27.03$	PASS
62	5310	MCS8	11.2	11	0	0	14.29	23.98 or $11+10\log(B) = 27.03$	PASS
102	5510	MCS8	8.98	8.94	0	0	12.16	23.98 or $11+10\log(B) = 27.01$	PASS
110	5550	MCS8	12.3	12.3	0	0	15.49	23.98 or $11+10\log(B) = 27.01$	PASS
134	5670	MCS8	12.3	12.5	0	0	15.63	23.98 or $11+10\log(B) = 27.01$	PASS
142	5710(U-NII 2C)	MCS8	10.7	11	####	####	13.62	23.98 or $11+10\log(B) = 26.42$	PASS
142	5720 (U-NII 3)	MCS8	1.52	1.6	####	####	1.95	30	PASS
151	5755	MCS8	11.9	12.2	0	0	15.22	30	PASS
159	5795	MCS8	11.9	12.3	0	0	15.30	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH 3			
42	5210	MCS0	7.21	7.13	0	0	10.38	23.98	PASS
58	5290	MCS0	7.43	7.28	0	0	10.56	23.98 or $11+10\log(B) = 30.09$	PASS
106	5530	MCS0	8.19	8.08	0	0	11.34	23.98 or $11+10\log(B) = 30.09$	PASS
122	5610	MCS0	9.07	9.39	0	0	12.44	23.98 or $11+10\log(B) = 30.12$	PASS
138	5690(U-NII 2C)	MCS0	8.47	8.58	####	####	11.58	23.98 or $11+10\log(B) = 29.77$	PASS
138	5690 (U-NII 3)	MCS0	0.56	0.66	####	####	0.77	30	PASS
155	5775	MCS0	8.89	9.21	0	0	12.26	30	PASS

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SISO

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
140	5700	12.68	18.519	23.98 or $11+10\log(B) = 23.47$	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
62	5310	12.42	17.453	23.98 or $11+10\log(B) = 26.57$	PASS
102	5510	10.31	10.736	23.98 or $11+10\log(B) = 26.57$	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.34	8.585	23.98 or $11+10\log(B) = 29.80$	PASS

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MIMO

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.47	17.677	23.98 or $11+10\log(B) = 23.22$	PASS
60	5300	12.51	17.841	23.98 or $11+10\log(B) = 23.23$	PASS
64	5320	12.29	16.959	23.98 or $11+10\log(B) = 23.21$	PASS
100	5500	12.17	16.497	23.98 or $11+10\log(B) = 23.22$	PASS
116	5580	12.20	16.611	23.98 or $11+10\log(B) = 23.23$	PASS
140	5700	12.35	17.195	23.98 or $11+10\log(B) = 23.20$	PASS
149	5745	12.42	17.475	30	PASS
157	5785	12.05	16.048	30	PASS
165	5825	12.07	16.122	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.6	12.5	15.63	36.575	23.98 or $11+10\log(B) = 23.47$	PASS
60	5300	12.4	12.3	15.42	34.847	23.98 or $11+10\log(B) = 23.47$	PASS
64	5320	12.2	12.1	15.26	33.551	23.98 or $11+10\log(B) = 23.47$	PASS
100	5500	12.4	12.2	15.40	34.688	23.98 or $11+10\log(B) = 23.46$	PASS
116	5580	12.3	12.2	15.35	34.289	23.98 or $11+10\log(B) = 23.47$	PASS
140	5700	11.4	11.4	14.49	28.129	23.98 or $11+10\log(B) = 23.47$	PASS
149	5745	12	12.3	15.27	33.684	30	PASS
157	5785	12	12.3	15.26	33.559	30	PASS
165	5825	12.1	12.3	15.32	34.066	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.4	12.2	15.49	35.436	23.98 or $11+10\log(B) = 26.56$	PASS
62	5310	11.2	11	14.29	26.881	23.98 or $11+10\log(B) = 26.56$	PASS
102	5510	8.98	8.94	12.16	16.440	23.98 or $11+10\log(B) = 26.57$	PASS
110	5550	12.3	12.3	15.49	35.432	23.98 or $11+10\log(B) = 26.57$	PASS
134	5670	12.3	12.5	15.63	36.601	23.98 or $11+10\log(B) = 26.57$	PASS
151	5755	11.9	12.2	15.22	33.283	30	PASS
159	5795	11.9	12.3	15.30	33.868	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	7.43	7.28	10.56	11.385	23.98 or $11+10\log(B) = 29.80$	PASS
106	5530	8.19	8.08	11.34	13.623	23.98 or $11+10\log(B) = 29.79$	PASS
122	5610	9.07	9.39	12.44	17.541	23.98 or $11+10\log(B) = 29.79$	PASS
155	5775	8.89	9.21	12.26	16.829	30	PASS

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EIRP

SISO

802.11n HT20 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
140	5700	12.68	2.930	15.61	36.359	30 or 17+10log(B)= 29.47	PASS

802.11n HT40 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.25	2.930	14.18	26.173	23.01 or 10+10log(B)= 25.57	PASS
62	5310	12.42	2.930	15.35	34.266	30 or 17+10log(B)= 32.57	PASS
102	5510	10.31	2.930	13.24	21.080	30 or 17+10log(B)= 32.57	PASS

802.11ac VHT80 Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	8.37	2.930	11.30	13.481	23.01 or 10+10log(B)= 28.80	PASS
58	5290	9.34	2.930	12.27	16.855	30 or 17+10log(B)= 35.80	PASS

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MIMO

802.11a Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	12.36	2.930	15.29	33.838	23.01	or 10+10log(B)= 22.22	PASS
44	5220	12.48	2.930	15.41	34.786	23.01	or 10+10log(B)= 22.23	PASS
48	5240	12.38	2.930	15.31	33.995	23.01	or 10+10log(B)= 22.22	PASS
52	5260	12.47	2.930	15.40	34.706	30	or 17+10log(B)= 29.22	PASS
60	5300	12.51	2.930	15.44	35.027	30	or 17+10log(B)= 29.23	PASS
64	5320	12.29	2.930	15.22	33.297	30	or 17+10log(B)= 29.21	PASS
100	5500	12.17	2.930	15.10	32.390	30	or 17+10log(B)= 29.22	PASS
116	5580	12.20	2.930	15.13	32.614	30	or 17+10log(B)= 29.23	PASS
140	5700	12.35	2.930	15.28	33.760	30	or 17+10log(B)= 29.20	PASS

802.11n HT20 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.79	5.940	21.73	148.832	23.01	or 10+10log(B)= 22.47	PASS
44	5220	15.83	5.940	21.77	150.392	23.01	or 10+10log(B)= 22.47	PASS
48	5240	15.51	5.940	21.45	139.666	23.01	or 10+10log(B)= 22.47	PASS
52	5260	15.63	5.940	21.57	143.619	30	or 17+10log(B)= 29.47	PASS
60	5300	15.42	5.940	21.36	136.833	30	or 17+10log(B)= 29.47	PASS
64	5320	15.26	5.940	21.20	131.745	30	or 17+10log(B)= 29.47	PASS
100	5500	15.40	5.940	21.34	136.211	30	or 17+10log(B)= 29.46	PASS
116	5580	15.35	5.940	21.29	134.643	30	or 17+10log(B)= 29.47	PASS
140	5700	14.49	5.940	20.43	110.453	30	or 17+10log(B)= 29.47	PASS

802.11n HT40 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	12.33	5.940	18.27	67.176	23.01	or 10+10log(B)= 25.57	PASS
46	5230	15.64	5.940	21.58	143.768	23.01	or 10+10log(B)= 25.56	PASS
54	5270	15.49	5.940	21.43	139.146	30	or 17+10log(B)= 32.56	PASS
62	5310	14.29	5.940	20.23	105.553	30	or 17+10log(B)= 32.56	PASS
102	5510	12.16	5.940	18.10	64.554	30	or 17+10log(B)= 32.57	PASS
110	5550	15.49	5.940	21.43	139.131	30	or 17+10log(B)= 32.57	PASS
134	5670	15.63	5.940	21.58	143.723	30	or 17+10log(B)= 32.57	PASS

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802.11ac VHT80 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	10.38	5.940	16.32	42.835	23.01	or $10+10\log(B)=$	28.80	PASS
58	5290	10.56	5.940	16.50	44.704	30	or $17+10\log(B)=$	35.80	PASS
106	5530	11.34	5.940	17.28	53.496	30	or $17+10\log(B)=$	35.79	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.

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

For equipment operating in the band **5725-5850** MHz, 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.

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Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi.

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

$$= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

[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 not greater than 6 dBi. Therefore, reduction of power is not required.

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 $\geq$ 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 $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

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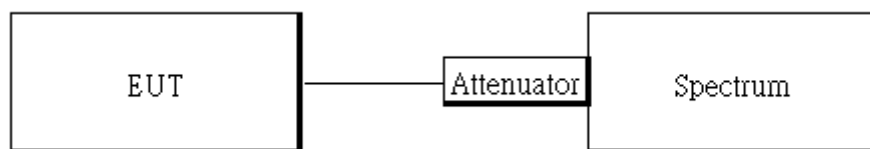
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10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV-30	101398	2017/10/19	2018/10/18
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27
Temperature Chamber	TERCHY	MHG-120LF	911009	2018/05/18	2019/05/17
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01
Notebook	Lenovo	L430	R9-WGNK5	N/A	N/A

10.4 Test Set-up



10.5 Measurement Result

SISO

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5700	1.28	10.50	0.10	1.38	11	-9.62

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-4.96	10.50	0.19	-4.77	11	-15.77
5310	-3.25	10.50	0.19	-3.06	11	-14.06
5510	-5.4	10.50	0.19	-5.21	11	-16.21

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-10.90	10.50	0.20	-10.70	11	-21.70
5290	-9.54	10.50	0.20	-9.34	11	-20.34

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MIMO

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	0.58	10.50	0.04	0.62	11	-10.38
5220	-0.20	10.50	0.04	-0.16	11	-11.16
5240	0.37	10.50	0.04	0.41	11	-10.59
5260	0.40	10.50	0.04	0.44	11	-10.56
5300	-0.03	10.50	0.04	0.01	11	-10.99
5320	-0.02	10.50	0.04	0.02	11	-10.98
5500	-0.40	10.50	0.04	-0.36	11	-11.36
5580	1.72	10.50	0.04	1.76	11	-9.24
5700	1.30	10.50	0.04	1.34	11	-9.66
5720 (U-NII 2C)	1.45	10.50	0.04	1.49	11	-9.51
5720 (U-NII 3)	0.28	10.50	0.04	0.33	30	-29.67
5745	5.04	10.50	-	5.04	30	-24.96
5785	5.08	10.50	-	5.08	30	-24.92
5825	5.33	10.50	-	5.33	30	-24.67

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.59	10.50	0.10	3.69	11	-7.31
5220	3.74	10.50	0.10	3.84	11	-7.16
5240	3.04	10.50	0.10	3.14	11	-7.86
5260	2.71	10.50	0.10	2.81	11	-8.19
5300	2.69	10.50	0.10	2.79	11	-8.21
5320	2.51	10.50	0.10	2.61	11	-8.39
5500	2.28	10.50	0.10	2.38	11	-8.62
5580	2.97	10.50	0.10	3.07	11	-7.93
5700	2.17	10.50	0.10	2.27	11	-8.73
5720 (U-NII 2C)	3.89	10.50	0.10	3.99	11	-7.01
5720 (U-NII 3)	3.12	10.50	0.10	3.22	30	-26.78
5745	7.48	10.50	-	7.48	30	-22.52
5785	8.22	10.50	-	8.22	30	-21.78
5825	7.47	10.50	-	7.47	30	-22.53

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POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-3.43	10.50	0.19	-3.24	11	-14.24
5230	-0.94	10.50	0.19	-0.75	11	-11.75
5270	-0.66	10.50	0.19	-0.47	11	-11.47
5310	-1.13	10.50	0.19	-0.94	11	-11.94
5510	-4	10.50	0.19	-3.81	11	-14.81
5550	0.27	10.50	0.19	0.46	11	-10.54
5670	0.50	10.50	0.19	0.69	11	-10.31
5710 (U-NII 2C)	0.66	10.50	0.19	0.85	11	-10.15
5710 (U-NII 3)	-1.01	10.50	0.19	-0.82	30	-30.82
5755	5.21	10.50	-	5.21	30	-24.79
5795	5.31	10.50	-	5.31	30	-24.69

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-8.78	10.50	0.20	-8.58	11	-19.58
5290	-9.12	10.50	0.20	-8.92	11	-19.92
5530	-8.35	10.50	0.20	-8.15	11	-19.15
5610	-6.71	10.50	0.20	-6.51	11	-17.51
5690 (U-NII 2C)	-5.05	10.50	0.20	-4.85	11	-15.85
5690 (U-NII 3)	-13.95	10.50	0.20	-13.75	30	-43.75
5775	-1.53	10.50	-	-1.53	30	-31.53

SISO

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.70	2.93	-7.77	10	-17.77

MIMO

EIRP spectral density 802.11a MODE						EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.62	2.93	3.55	10	-6.45	5180	3.69	5.94	9.63	10	-0.37
5220	-0.16	2.93	2.77	10	-7.23	5220	3.84	5.94	9.78	10	-0.22
5240	0.41	2.93	3.34	10	-6.66	5240	3.14	5.94	9.08	10	-0.92

EIRP spectral density 802.11n HT40 MODE						EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.24	5.94	2.70	10	-7.30	5210	-8.58	5.94	-2.64	10	-12.64
5220	-0.75	5.94	5.19	10	-4.81						

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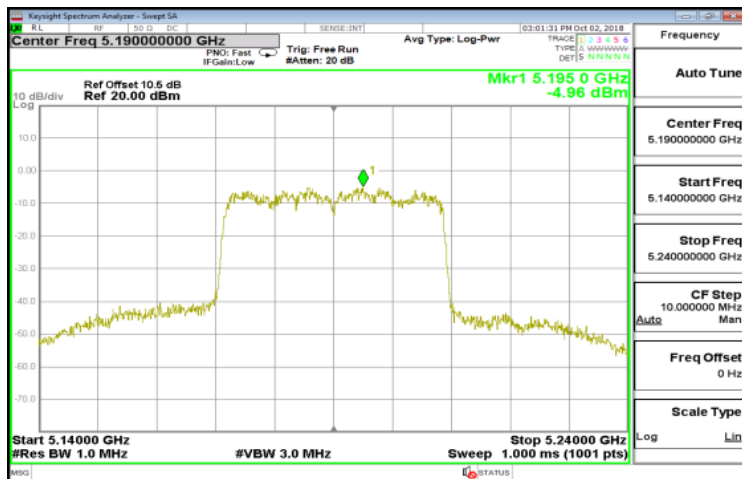
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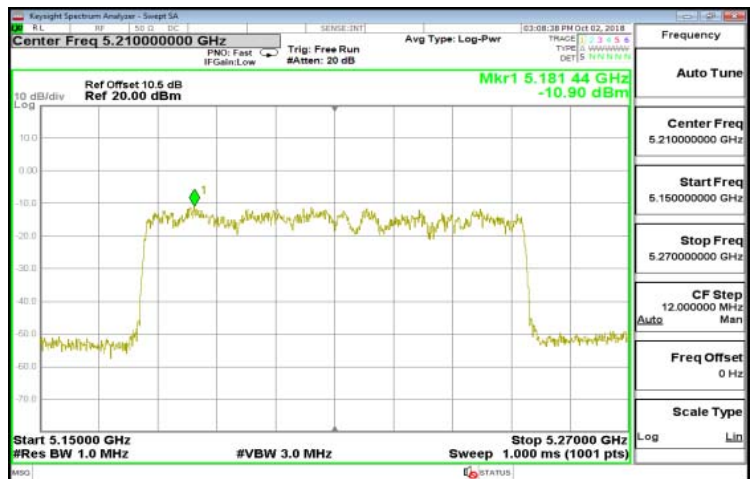
802.11n_40MHz_5510MHz



802.11n_40MHz_5190MHz



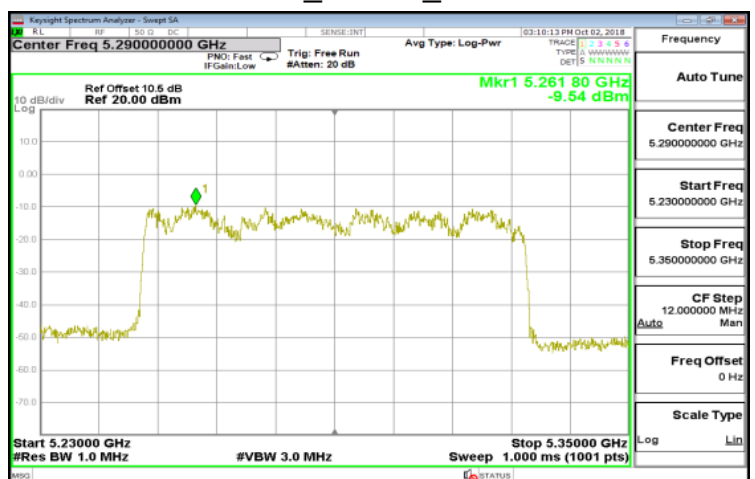
802.11ac_80MHz_5210MHz



802.11n_40MHz_5310MHz



802.11ac_80MHz_5290MHz



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