

802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5320MHz



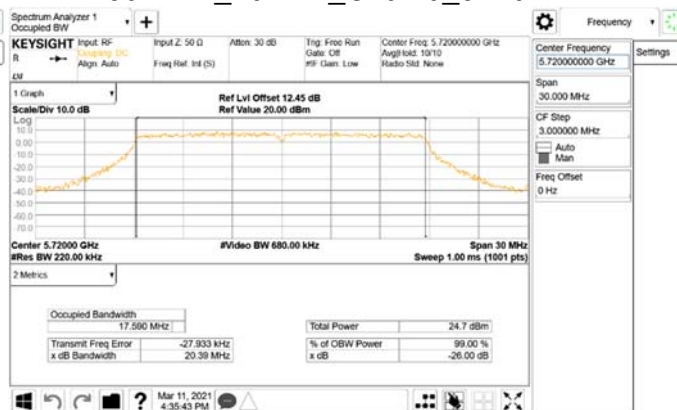
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



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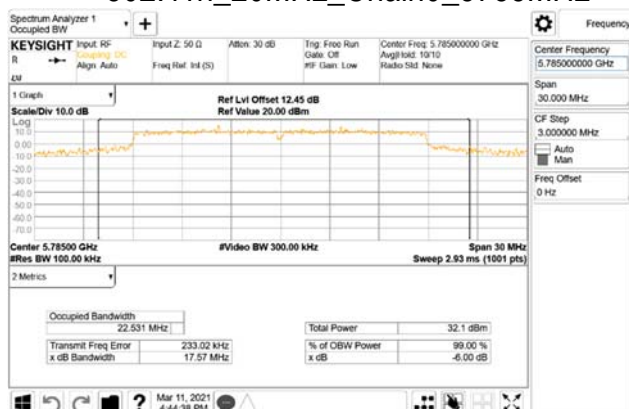
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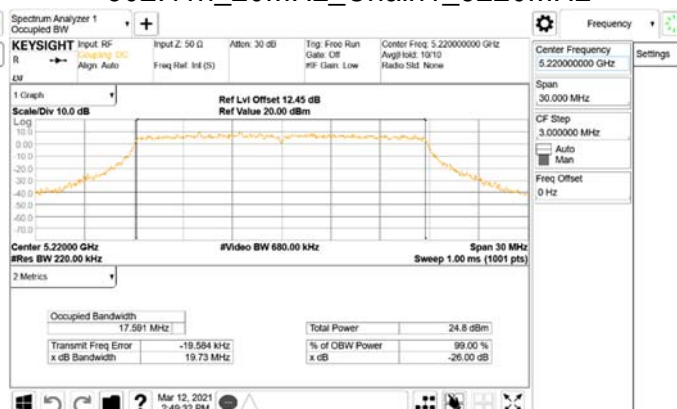
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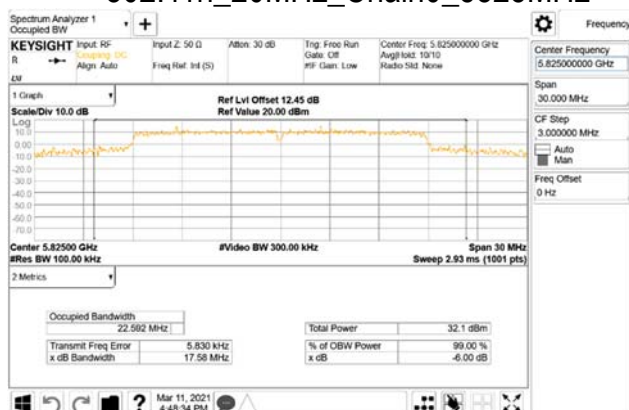
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

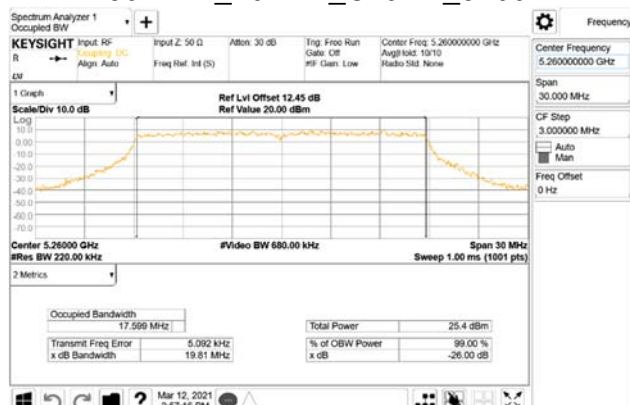


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802.11n_20MHz_Chain1_5260MHz



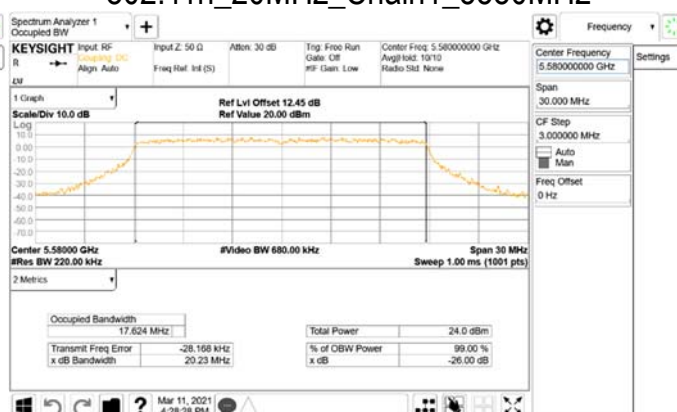
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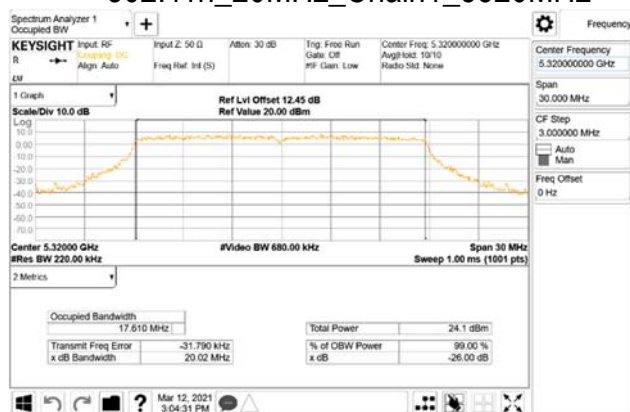
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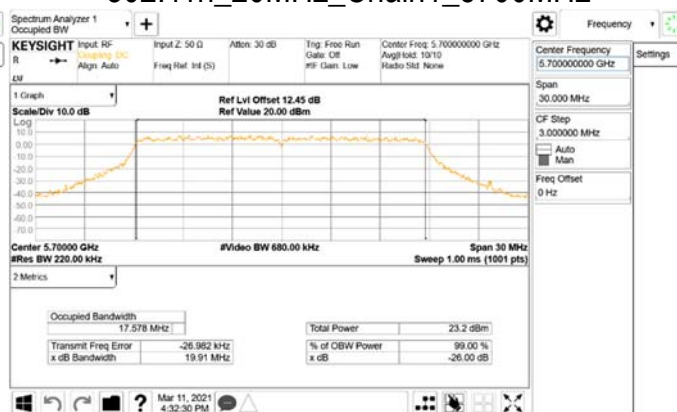
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



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802.11n_20MHz_Chain1_5720MHz



802.11n_20MHz_Chain1_5825MHz



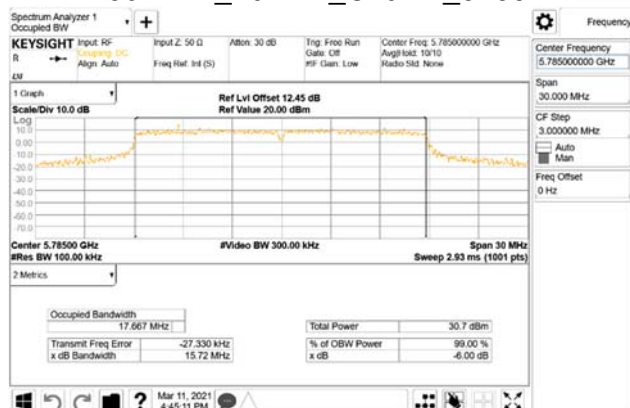
802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



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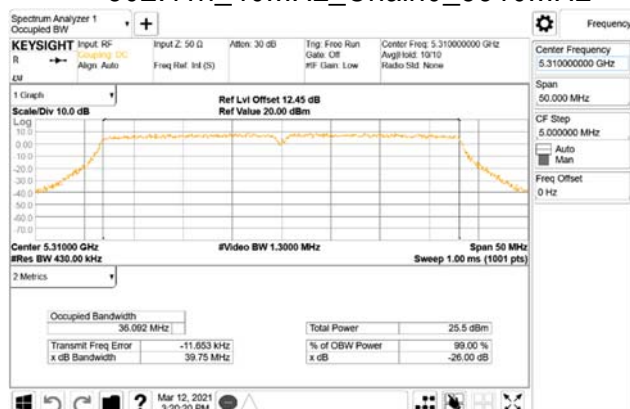
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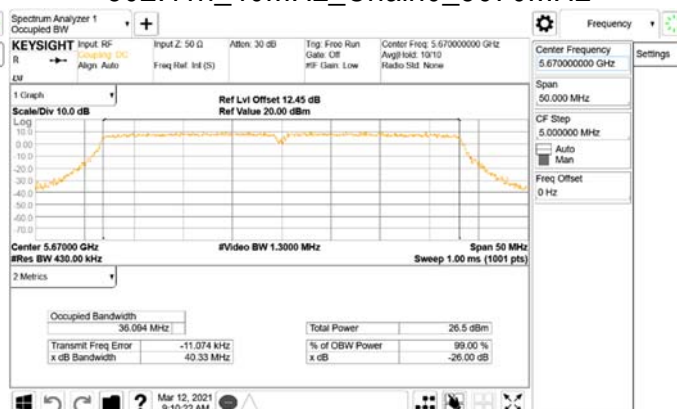
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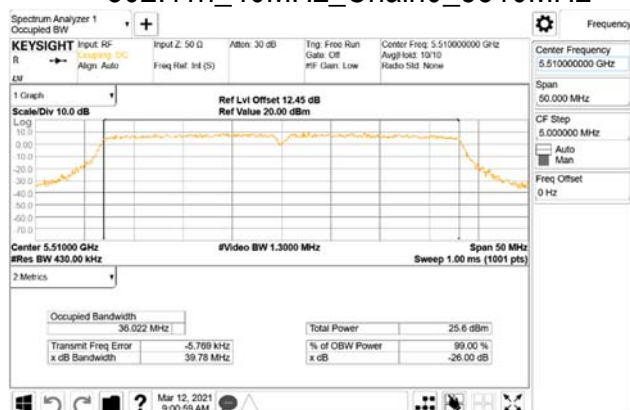
802.11n_40MHz_Chain0_5310MHz



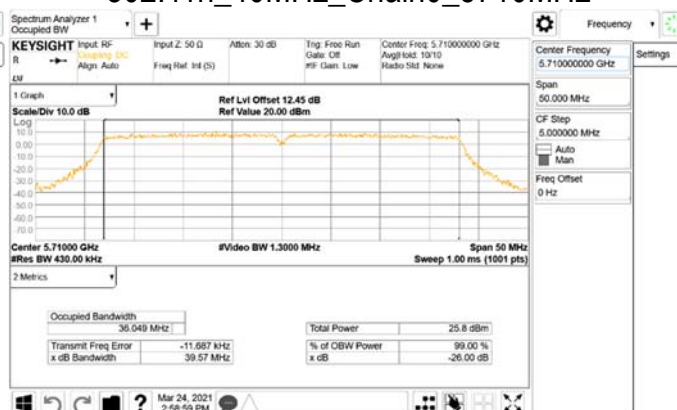
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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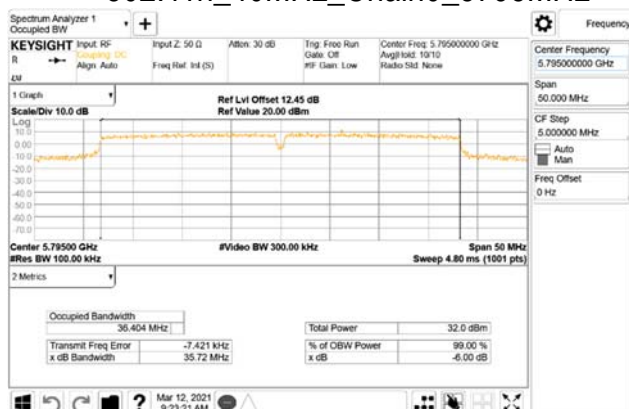
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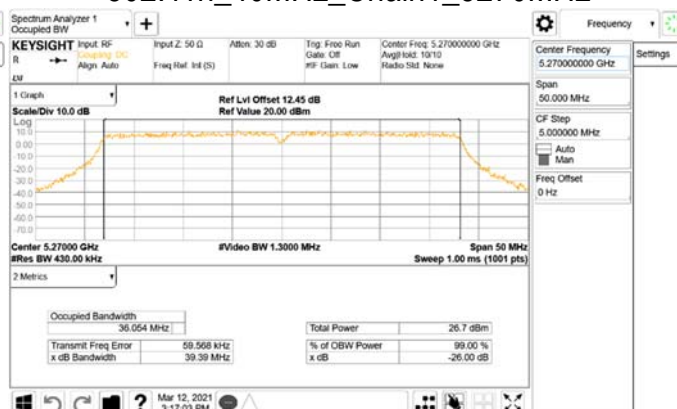
802.11n_40MHz_Chain1_5230MHz



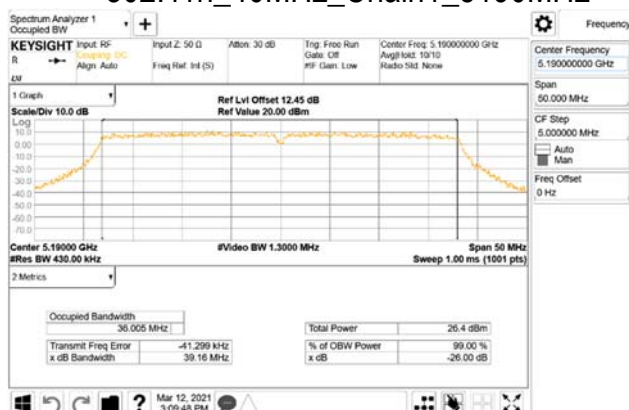
802.11n_40MHz_Chain0_5795MHz



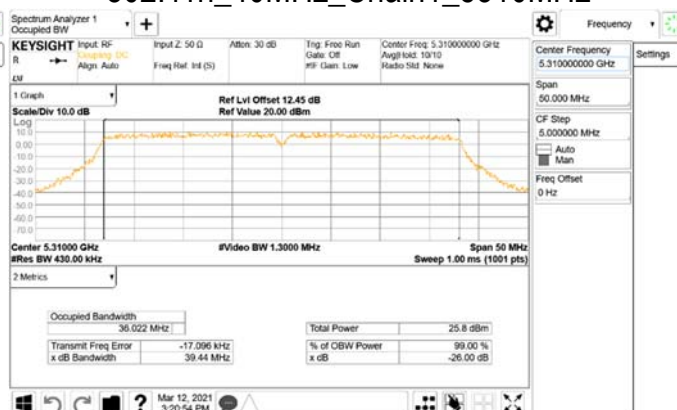
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz



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802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



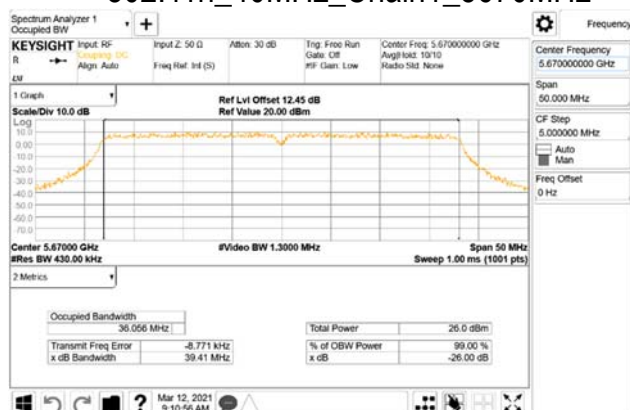
802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



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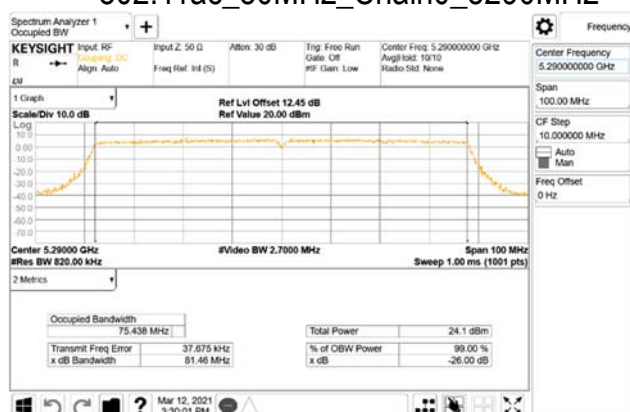
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802.11ac_80MHz_Chain0_5610MHz



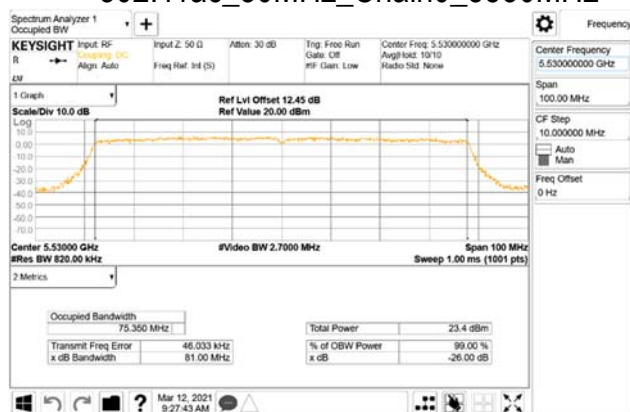
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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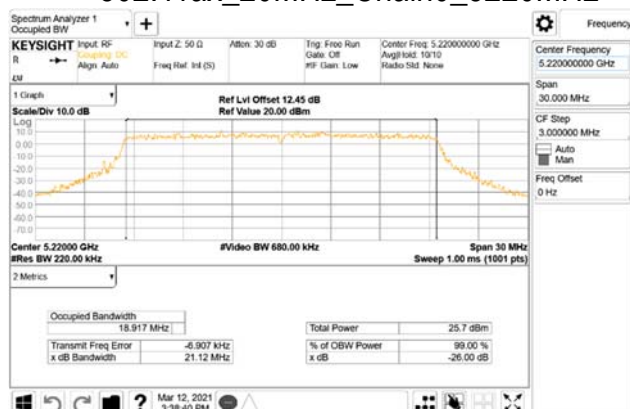
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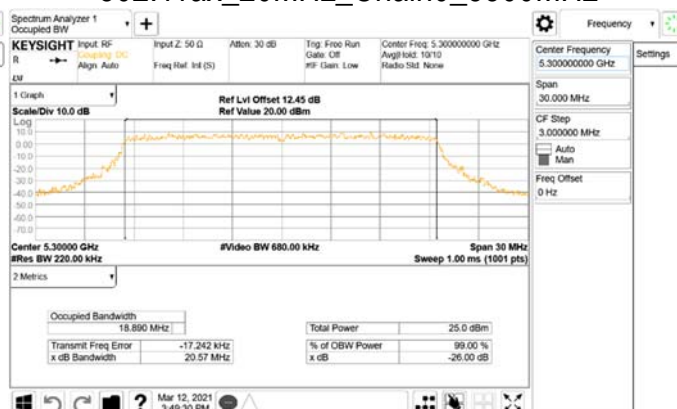
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802.11ax_20MHz_Chain0_5220MHz



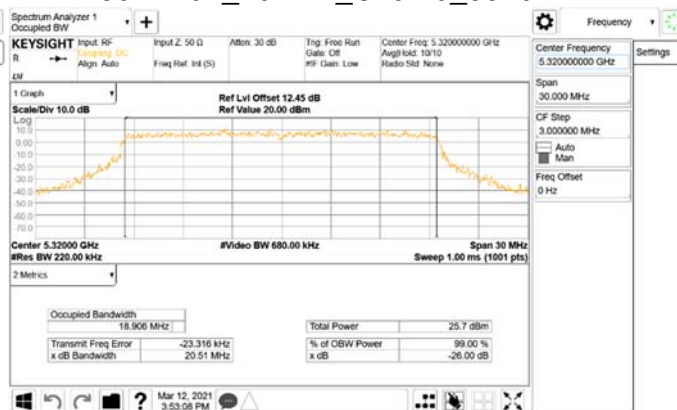
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802.11ax_20MHz_Chain0_5240MHz



802.11ax_20MHz_Chain0_5320MHz

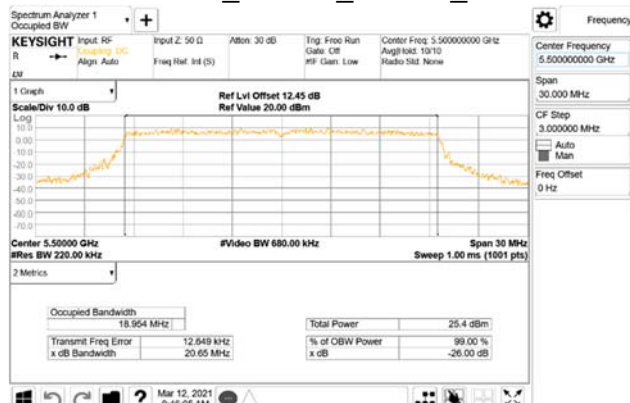


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802.11ax_20MHz_Chain0_5720MHz



802.11ax_20MHz_Chain0_5580MHz



802.11ax_20MHz_Chain0_5745MHz



802.11ax_20MHz_Chain0_5700MHz



802.11ax_20MHz_Chain0_5785MHz

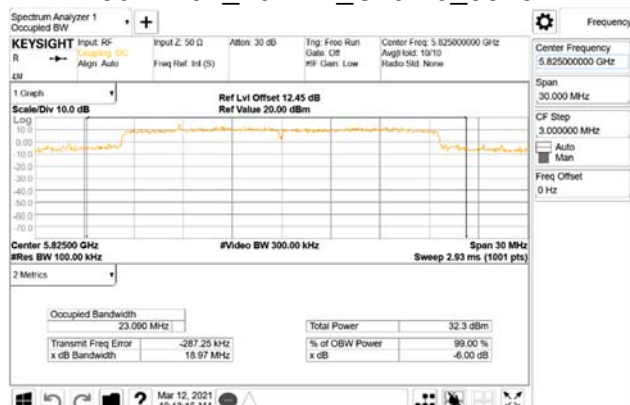


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802.11ax_20MHz_Chain0_5825MHz



802.11ax_20MHz_Chain1_5240MHz



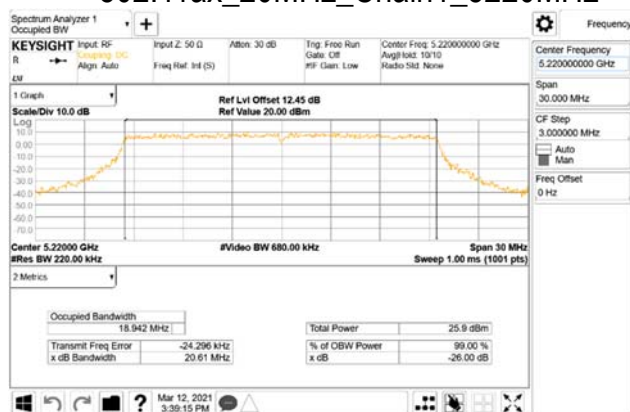
802.11ax_20MHz_Chain1_5180MHz



802.11ax_20MHz_Chain1_5260MHz



802.11ax_20MHz_Chain1_5220MHz



802.11ax_20MHz_Chain1_5300MHz

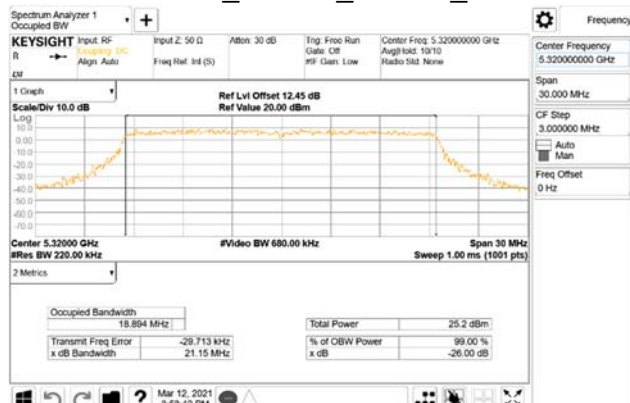


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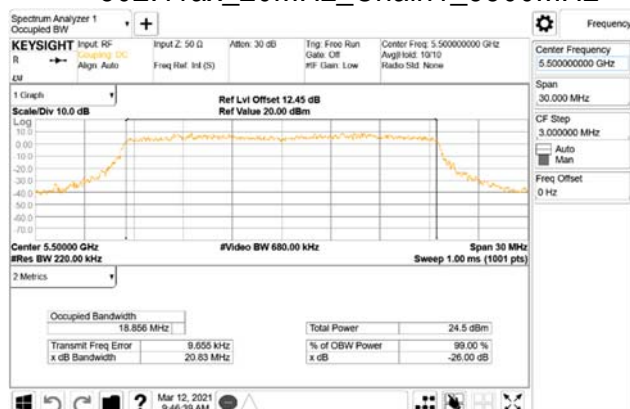
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802.11ax_20MHz_Chain1_5700MHz



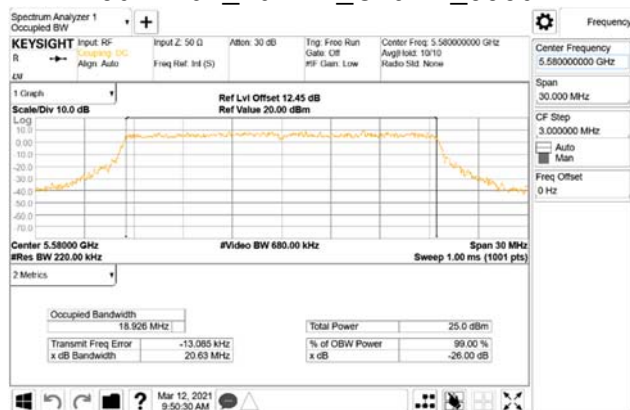
802.11ax_20MHz_Chain1_5500MHz



802.11ax_20MHz_Chain1_5720MHz



802.11ax_20MHz_Chain1_5580MHz



802.11ax_20MHz_Chain1_5745MHz

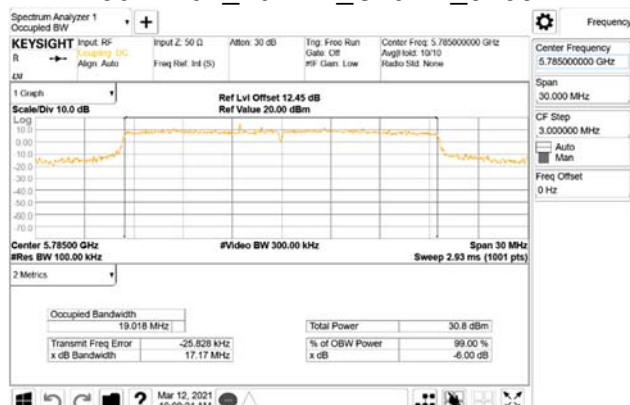


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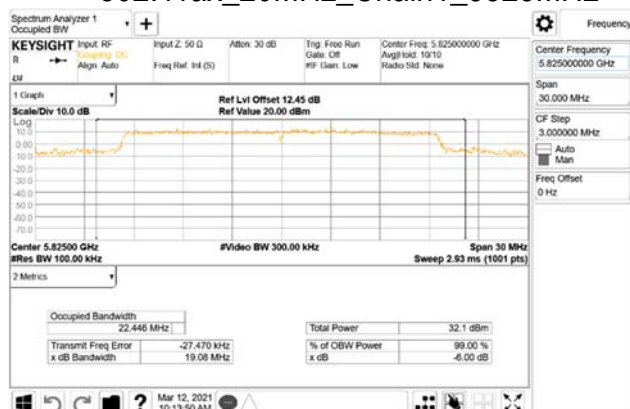
802.11ax_20MHz_Chain1_5785MHz



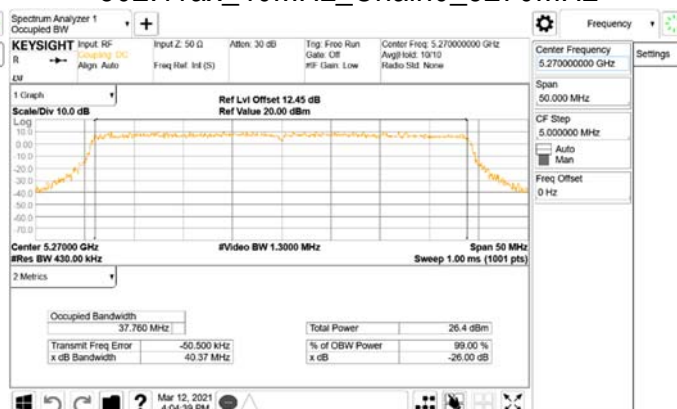
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802.11ax_20MHz_Chain1_5825MHz



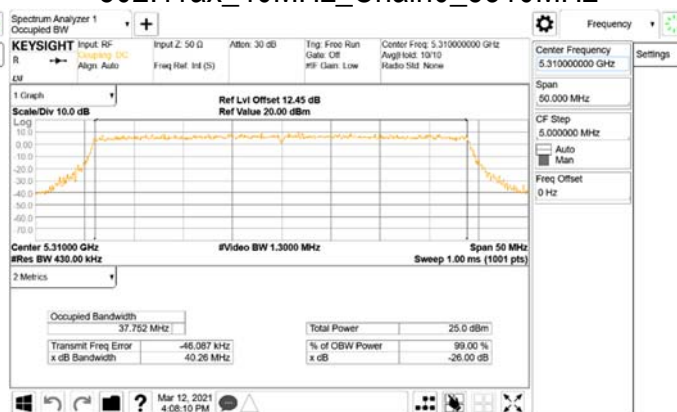
802.11ax_40MHz_Chain0_5270MHz



802.11ax_40MHz_Chain0_5190MHz



802.11ax_40MHz_Chain0_5310MHz



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802.11ax_40MHz_Chain0_5510MHz



802.11ax_40MHz_Chain0_5710MHz



802.11ax_40MHz_Chain0_5550MHz



802.11ax_40MHz_Chain0_5755MHz



802.11ax_40MHz_Chain0_5670MHz



802.11ax_40MHz_Chain0_5795MHz



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802.11ax_40MHz_Chain1_5190MHz



802.11ax_40MHz_Chain1_5310MHz



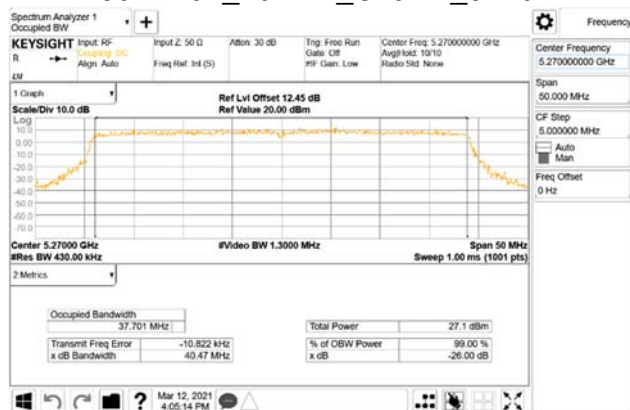
802.11ax_40MHz_Chain1_5230MHz



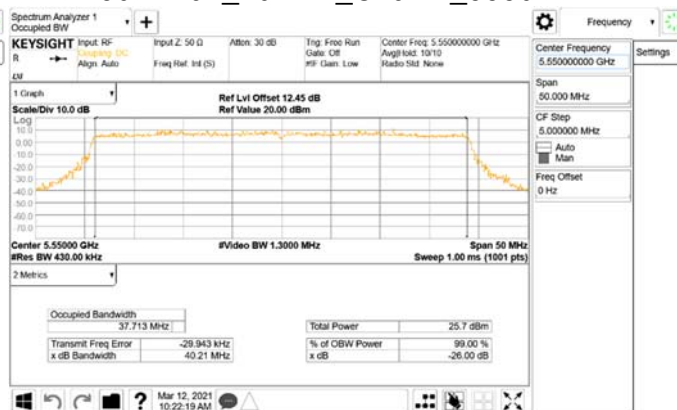
802.11ax_40MHz_Chain1_5510MHz



802.11ax_40MHz_Chain1_5270MHz



802.11ax_40MHz_Chain1_5550MHz



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802.11ax_40MHz_Chain1_5670MHz



802.11ax_40MHz_Chain1_5795MHz



802.11ax_40MHz_Chain1_5710MHz



802.11ax_80MHz_Chain0_5210MHz



802.11ax_40MHz_Chain1_5755MHz



802.11ax_80MHz_Chain0_5290MHz



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802.11ax_80MHz_Chain0_5530MHz



802.11ax_80MHz_Chain0_5775MHz



802.11ax_80MHz_Chain0_5610MHz



802.11ax_80MHz_Chain1_5210MHz



802.11ax_80MHz_Chain0_5690MHz



802.11ax_80MHz_Chain1_5290MHz

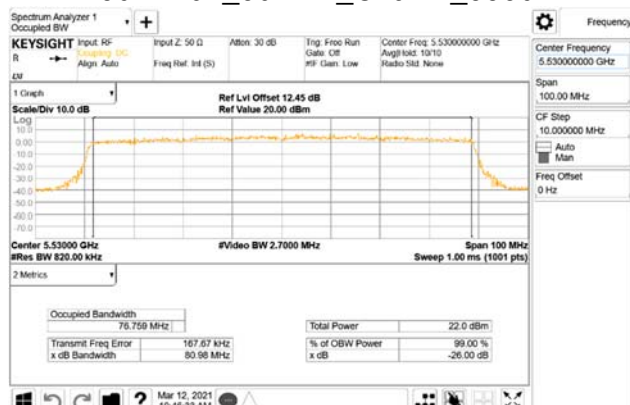


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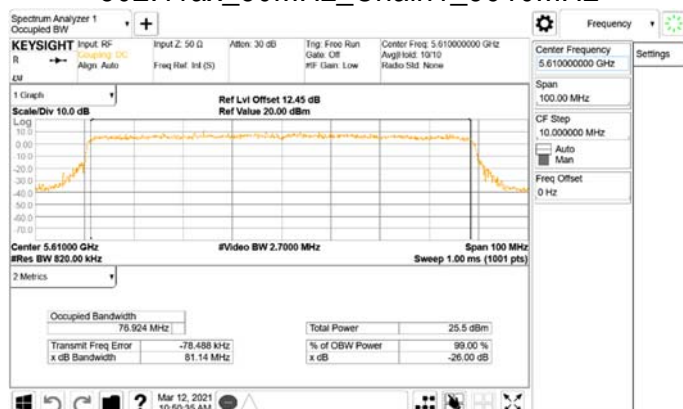
802.11ax_80MHz_Chain1_5530MHz



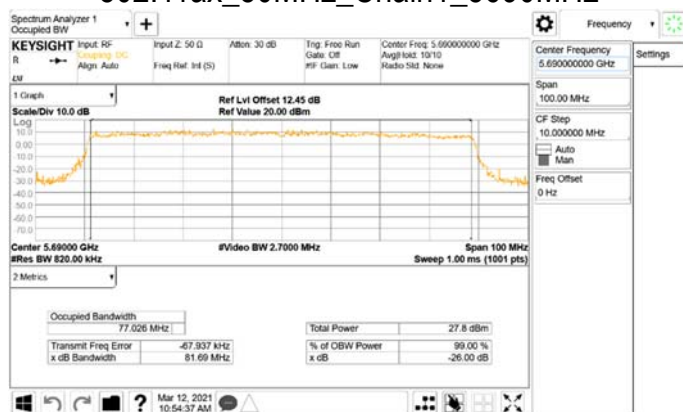
802.11ax_80MHz_Chain1_5775MHz



802.11ax_80MHz_Chain1_5610MHz



802.11ax_80MHz_Chain1_5690MHz



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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:

CDD

As per section F. 2). d). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

(ii) If all transmit signals are *completely uncorrelated*, then

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

where

NANT = the total number of antennas

G is the gain in dBi.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

Beamforming

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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

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where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

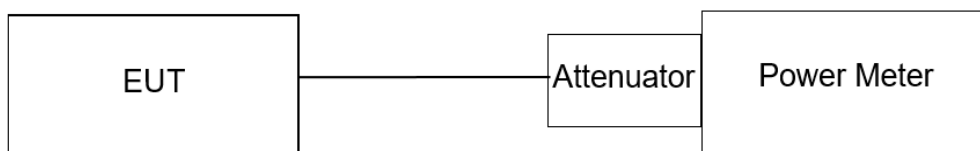
9.2 Measurement Procedure

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/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: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021

9.4 Test Set-up



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9.5 Beamforming Mode Measurement Result

9.5.1 Conducted output power (FCC)

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	17.97	62.592	23.98	PASS
44	5220	MCS0	16.5	17.09	51.111	23.98	PASS
48	5240	MCS0	17	17.70	58.819	23.98	PASS
52	5260	MCS0	17	17.87	61.167	23.98 or $11+10\log(B) = 24.03$	PASS
60	5300	MCS0	17	17.95	62.304	23.98 or $11+10\log(B) = 24.04$	PASS
64	5320	MCS0	16	16.76	47.371	23.98 or $11+10\log(B) = 24.01$	PASS
100	5500	MCS0	15.5	16.19	41.545	23.98 or $11+10\log(B) = 24.11$	PASS
116	5580	MCS0	16	16.94	49.376	23.98 or $11+10\log(B) = 23.98$	PASS
140	5700	MCS0	15.5	16.40	43.603	23.98 or $11+10\log(B) = 24.08$	PASS
144	5720(U-NII 2C)	MCS0	16	15.63	36.58	23.98 or $11+10\log(B) = 22.77$	PASS
144	5720 (U-NII 3)	MCS0	16	10.88	12.23	30	PASS
149	5745	MCS0	23	23.44	220.555	30	PASS
157	5785	MCS0	23	23.78	238.516	30	PASS
165	5825	MCS0	23	23.38	217.529	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	16.97	49.718	23.98	PASS
44	5220	MCS0	16.5	16.64	46.080	23.98	PASS
48	5240	MCS0	17	17.15	51.822	23.98	PASS
52	5260	MCS0	17	17.08	50.994	23.98 or $11+10\log(B) = 23.96$	PASS
60	5300	MCS0	17	16.96	49.604	23.98 or $11+10\log(B) = 24.06$	PASS
64	5320	MCS0	16	16.60	45.658	23.98 or $11+10\log(B) = 23.99$	PASS
100	5500	MCS0	15.5	15.35	34.239	23.98 or $11+10\log(B) = 23.94$	PASS
116	5580	MCS0	16	16.08	40.506	23.98 or $11+10\log(B) = 23.92$	PASS
140	5700	MCS0	15.5	15.56	35.935	23.98 or $11+10\log(B) = 23.97$	PASS
144	5720(U-NII 2C)	MCS0	16	14.75	29.82	23.98 or $11+10\log(B) = 22.74$	PASS
144	5720 (U-NII 3)	MCS0	16	9.94	9.85	30	PASS
149	5745	MCS0	23	23.09	203.478	30	PASS
157	5785	MCS0	23	23.00	199.304	30	PASS
165	5825	MCS0	23	23.06	202.077	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS8	17	17.69	16.64	20.52	112.775	23.98	PASS
44	5220	MCS8	16.5	16.65	16.31	19.81	95.693	23.98	PASS
48	5240	MCS8	17	17.3	16.72	20.35	108.272	23.98	PASS
52	5260	MCS8	17	17.55	16.73	20.48	111.810	23.98 or 11+10log(B) = 23.96	PASS
60	5300	MCS8	17	17.55	16.58	20.42	110.090	23.98 or 11+10log(B) = 24.04	PASS
64	5320	MCS8	16	16.36	16.22	19.62	91.538	23.98 or 11+10log(B) = 23.99	PASS
100	5500	MCS8	15.5	15.89	15.33	18.94	78.424	23.98 or 11+10log(B) = 23.94	PASS
116	5580	MCS8	16	16.7	16.27	19.82	95.847	23.98 or 11+10log(B) = 23.92	PASS
140	5700	MCS8	15.5	16.13	15.66	19.23	83.692	23.98 or 11+10log(B) = 23.97	PASS
144	5720(U-NII 2C)	MCS8	16	15.43	14.69	18.40	69.254	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS8	16	10.67	9.88	13.62	23.034	30	PASS
149	5745	MCS8	23	23.06	22.72	26.22	418.678	30	PASS
157	5785	MCS8	23	23.58	22.65	26.47	443.131	30	PASS
165	5825	MCS8	23	23.13	22.68	26.24	420.368	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	17.81	60.433	23.98	PASS
44	5220	MCS0	16.5	16.95	49.577	23.98	PASS
48	5240	MCS0	17	17.51	56.400	23.98	PASS
52	5260	MCS0	17	17.70	58.922	23.98 or 11+10log(B) = 24.03	PASS
60	5300	MCS0	17	17.74	59.467	23.98 or 11+10log(B) = 24.04	PASS
64	5320	MCS0	16	16.55	45.214	23.98 or 11+10log(B) = 24.01	PASS
100	5500	MCS0	15.5	16.06	40.390	23.98 or 11+10log(B) = 24.11	PASS
116	5580	MCS0	16	16.78	47.673	23.98 or 11+10log(B) = 23.98	PASS
140	5700	MCS0	15.5	16.21	41.810	23.98 or 11+10log(B) = 24.08	PASS
144	5720(U-NII 2C)	MCS0	16	14.58	28.71	23.98 or 11+10log(B) = 22.77	PASS
144	5720 (U-NII 3)	MCS0	16	9.82	9.60	30	PASS
149	5745	MCS0	23	23.30	213.932	30	PASS
157	5785	MCS0	23	23.60	229.233	30	PASS
165	5825	MCS0	23	23.18	208.102	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	16.81	48.004	23.98	PASS
44	5220	MCS0	16.5	16.50	44.697	23.98	PASS
48	5240	MCS0	17	17.00	50.151	23.98	PASS
52	5260	MCS0	17	16.93	49.349	23.98 or 11+10log(B) = 23.96	PASS
60	5300	MCS0	17	16.81	48.004	23.98 or 11+10log(B) = 24.06	PASS
64	5320	MCS0	16	16.43	43.982	23.98 or 11+10log(B) = 23.99	PASS
100	5500	MCS0	15.5	15.15	32.755	23.98 or 11+10log(B) = 23.94	PASS
116	5580	MCS0	16	15.93	39.199	23.98 or 11+10log(B) = 23.92	PASS
140	5700	MCS0	15.5	15.41	34.776	23.98 or 11+10log(B) = 23.97	PASS
144	5720(U-NII 2C)	MCS0	16	14.49	28.14	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS0	16	9.68	9.30	30	PASS
149	5745	MCS0	23	22.96	197.823	30	PASS
157	5785	MCS0	23	22.85	192.875	30	PASS
165	5825	MCS0	23	22.90	195.109	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	17	17.61	16.59	20.36	108.716	23.98	PASS
44	5220	MCS0	16.5	16.58	16.24	19.65	92.180	23.98	PASS
48	5240	MCS0	17	17.26	16.65	20.20	104.683	23.98	PASS
52	5260	MCS0	17	17.49	16.68	20.34	108.067	23.98 or 11+10log(B) = 23.96	PASS
60	5300	MCS0	17	17.48	16.51	20.26	106.050	23.98 or 11+10log(B) = 24.04	PASS
64	5320	MCS0	16	16.35	16.18	19.50	89.102	23.98 or 11+10log(B) = 23.99	PASS
100	5500	MCS0	15.5	15.82	15.29	18.80	75.790	23.98 or 11+10log(B) = 23.94	PASS
116	5580	MCS0	16	16.64	16.21	19.66	92.542	23.98 or 11+10log(B) = 23.92	PASS
140	5700	MCS0	15.5	16.08	15.61	19.08	80.992	23.98 or 11+10log(B) = 23.97	PASS
144	5720(U-NII 2C)	MCS0	16	15.34	14.58	18.21	66.150	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS0	16	10.58	9.77	13.42	22.002	30	PASS
149	5745	MCS0	23	22.97	22.68	26.06	403.690	30	PASS
157	5785	MCS0	23	23.49	22.61	26.31	427.102	30	PASS
165	5825	MCS0	23	23.08	22.61	26.08	405.921	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	17	18.16	65.505	23.98	PASS
		MCS0	26/0	12	13.14	20.619	23.98	PASS
		MCS0	52/37	12	13.35	21.641	23.98	PASS
		MCS0	106/53	17	17.91	61.841	23.98	PASS
44	5220	MCS0	full	16.5	17.10	51.319	23.98	PASS
48	5240	MCS0	full	16.5	17.39	54.863	23.98	PASS
52	5260	MCS0	full	17	18.04	63.720	23.98 or 11+10log(B) = 24.27	PASS
60	5300	MCS0	full	16	17.06	50.848	23.98 or 11+10log(B) = 24.21	PASS
64	5320	MCS0	full	16	16.89	48.896	23.98 or 11+10log(B) = 24.23	PASS
		MCS0	26/8	14	14.79	30.149	23.98 or 11+10log(B) = 24.23	PASS
		MCS0	52/40	13.5	14.61	28.925	23.98 or 11+10log(B) = 24.23	PASS
		MCS0	106/54	17	17.57	57.184	23.98 or 11+10log(B) = 24.23	PASS
100	5500	MCS0	full	16	16.76	47.454	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	26/0	12.5	13.18	20.810	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	52/37	13	13.80	24.004	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	106/53	12.5	13.08	20.337	23.98 or 11+10log(B) = 24.15	PASS
116	5580	MCS0	full	16	17.05	50.731	23.98 or 11+10log(B) = 24.18	PASS
140	5700	MCS0	full	15	16.05	40.297	23.98 or 11+10log(B) = 24.28	PASS
		MCS0	26/8	10.5	11.55	14.298	23.98 or 11+10log(B) = 24.28	PASS
		MCS0	52/40	10.5	11.65	14.631	23.98 or 11+10log(B) = 24.28	PASS
		MCS0	106/54	11	11.90	15.498	23.98 or 11+10log(B) = 24.28	PASS
144	5720(U-NII 2C)	MCS0	full	16	15.73	37.446	23.98 or 11+10log(B) = 22.95	PASS
144	5720 (U-NII 3)	MCS0	full	16	11.31	13.519	30	PASS
149	5745	MCS0	full	24.5	24.53	283.973	30	PASS
		MCS0	26/0	17	18.06	64.014	30	PASS
		MCS0	52/37	20	20.88	122.540	30	PASS
		MCS0	106/53	19.5	20.19	104.539	30	PASS
157	5785	MCS0	full	23	23.83	241.700	30	PASS
165	5825	MCS0	full	24.5	24.65	291.928	30	PASS
		MCS0	26/8	17	18.11	64.755	30	PASS
		MCS0	52/40	20.5	21.35	136.545	30	PASS
		MCS0	106/54	19.5	20.25	105.993	30	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	17	17.09	51.201	23.98	PASS
		MCS0	26/0	12	11.97	15.750	23.98	PASS
		MCS0	52/37	12	12.08	16.154	23.98	PASS
		MCS0	106/53	17	16.68	46.588	23.98	PASS
44	5220	MCS0	full	16.5	16.74	47.236	23.98	PASS
48	5240	MCS0	full	16.5	16.80	47.893	23.98	PASS
52	5260	MCS0	full	17	17.20	52.514	23.98 or 11+10log(B) = 24.13	PASS
60	5300	MCS0	full	16	16.08	40.577	23.98 or 11+10log(B) = 24.20	PASS
64	5320	MCS0	full	16	16.64	46.161	23.98 or 11+10log(B) = 24.27	PASS
		MCS0	26/8	14	14.55	28.528	23.98 or 11+10log(B) = 24.27	PASS
		MCS0	52/40	13.5	14.20	26.319	23.98 or 11+10log(B) = 24.27	PASS
		MCS0	106/54	17	17.28	53.490	23.98 or 11+10log(B) = 24.27	PASS
100	5500	MCS0	full	16	16.24	42.099	23.98 or 11+10log(B) = 24.16	PASS
		MCS0	26/0	12.5	12.27	16.876	23.98 or 11+10log(B) = 24.16	PASS
		MCS0	52/37	13	12.78	18.979	23.98 or 11+10log(B) = 24.16	PASS
		MCS0	106/53	12.5	12.13	16.341	23.98 or 11+10log(B) = 24.16	PASS
116	5580	MCS0	full	16	16.48	44.491	23.98 or 11+10log(B) = 24.16	PASS
140	5700	MCS0	full	15	15.45	35.098	23.98 or 11+10log(B) = 24.22	PASS
		MCS0	26/8	10.5	10.43	11.048	23.98 or 11+10log(B) = 24.22	PASS
		MCS0	52/40	10.5	10.51	11.253	23.98 or 11+10log(B) = 24.22	PASS
		MCS0	106/54	11	10.84	12.142	23.98 or 11+10log(B) = 24.22	PASS
144	5720(U-NII 2C)	MCS0	full	16	15.01	31.728	23.98 or 11+10log(B) = 22.84	PASS
144	5720 (U-NII 3)	MCS0	full	16	10.40	10.957	30	PASS
149	5745	MCS0	full	24.5	24.34	271.817	30	PASS
		MCS0	26/0	17	17.19	52.393	30	PASS
		MCS0	52/37	20	20.81	120.580	30	PASS
		MCS0	106/53	19.5	19.89	97.561	30	PASS
157	5785	MCS0	full	23	23.11	204.775	30	PASS
165	5825	MCS0	full	24.5	24.28	268.087	30	PASS
		MCS0	26/8	17	17.79	60.156	30	PASS
		MCS0	52/40	20.5	21.15	130.400	30	PASS
		MCS0	106/54	19.5	20.04	100.990	30	PASS

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802.11ax_HE20_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
					CH 0	CH 1					
36	5180	MCS0	full	17	17.96	16.83	20.66	116.539	23.98		PASS
		MCS0	26/0	12	12.86	11.83	15.61	36.379	23.98		PASS
		MCS0	52/37	11.5	12.26	11.28	15.03	31.847	23.98		PASS
		MCS0	106/53	14.5	15.12	14.08	17.86	61.152	23.98		PASS
44	5220	MCS0	full	16.5	17.01	16.49	19.99	99.789	23.98		PASS
48	5240	MCS0	full	16.5	17.13	16.66	20.13	103.144	23.98		PASS
52	5260	MCS0	full	17	17.84	16.98	20.66	116.528	23.98 or 11+10log(B) =	24.13	PASS
60	5300	MCS0	full	16	16.84	15.83	19.60	91.146	23.98 or 11+10log(B) =	24.20	PASS
64	5320	MCS0	full	16	16.69	16.55	19.85	96.686	23.98 or 11+10log(B) =	24.23	PASS
		MCS0	26/8	12.5	13.34	12.47	16.16	41.303	23.98 or 11+10log(B) =	24.23	PASS
		MCS0	52/40	13	14.17	13.13	16.91	49.137	23.98 or 11+10log(B) =	24.23	PASS
		MCS0	106/54	14.5	15.14	14.27	17.96	62.515	23.98 or 11+10log(B) =	24.23	PASS
100	5500	MCS0	full	16	16.62	16.03	19.57	90.533	23.98 or 11+10log(B) =	24.15	PASS
		MCS0	26/0	12	12.54	11.56	15.31	33.968	23.98 or 11+10log(B) =	24.15	PASS
		MCS0	52/37	13	13.92	12.18	16.37	43.347	23.98 or 11+10log(B) =	24.15	PASS
		MCS0	106/53	12	12.67	11.15	15.21	33.184	23.98 or 11+10log(B) =	24.15	PASS
116	5580	MCS0	full	16	16.87	16.52	19.93	98.437	23.98 or 11+10log(B) =	24.16	PASS
140	5700	MCS0	full	15	15.86	15.28	18.81	76.081	23.98 or 11+10log(B) =	24.22	PASS
		MCS0	26/8	10.5	11.36	10.08	14.00	25.119	23.98 or 11+10log(B) =	24.22	PASS
		MCS0	52/40	10.5	11.48	10.26	14.15	25.976	23.98 or 11+10log(B) =	24.22	PASS
		MCS0	106/54	11	11.79	10.38	14.38	27.384	23.98 or 11+10log(B) =	24.22	PASS
144	5720(U-NII 2C)	MCS0	full	16	15.44	14.77	18.35	68.387	23.98 or 11+10log(B) =	22.84	PASS
144	5720 (U-NII 3)	MCS0	full	16	11.02	10.15	13.84	24.194	30		PASS
149	5745	MCS0	full	24.5	24.42	24.18	27.53	566.855	30		PASS
		MCS0	26/0	17	17.82	16.84	20.59	114.568	30		PASS
		MCS0	52/37	20	20.95	19.81	23.65	231.759	30		PASS
		MCS0	106/53	19.5	19.86	19.84	23.08	203.380	30		PASS
157	5785	MCS0	full	23	23.68	22.85	26.52	448.525	30		PASS
165	5825	MCS0	full	24.5	24.54	23.94	27.48	560.198	30		PASS
		MCS0	26/8	17	17.98	17.38	20.92	123.692	30		PASS
		MCS0	52/40	20.5	21.12	20.92	24.25	266.331	30		PASS
		MCS0	106/54	19.5	20.34	19.46	23.16	206.791	30		PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.5	17.34	54.140	23.98	PASS
46	5230	MCS0	16.5	17.43	55.274	23.98	PASS
54	5270	MCS0	17	18.04	63.609	23.98 or 11+10log(B) = 27.01	PASS
62	5310	MCS0	16.5	17.15	51.822	23.98 or 11+10log(B) = 27.03	PASS
102	5510	MCS0	16.5	17.19	52.302	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	16	16.51	44.722	23.98 or 11+10log(B) = 26.97	PASS
134	5670	MCS0	16.5	17.65	58.146	23.98 or 11+10log(B) = 27.01	PASS
142	5710(U-NII 2C)	MCS0	16	16.44	44.05	23.98 or 11+10log(B) = 26.46	PASS
142	5710 (U-NII 3)	MCS0	16	8.11	6.48	30	PASS
151	5755	MCS0	20.5	21.40	137.885	30	PASS
159	5795	MCS0	21	22.34	171.205	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.5	16.54	45.032	23.98	PASS
46	5230	MCS0	16.5	17.12	51.466	23.98	PASS
54	5270	MCS0	17	17.13	51.584	23.98 or 11+10log(B) = 26.92	PASS
62	5310	MCS0	16.5	17.00	50.063	23.98 or 11+10log(B) = 26.91	PASS
102	5510	MCS0	16.5	16.84	48.252	23.98 or 11+10log(B) = 26.91	PASS
110	5550	MCS0	16	16.19	41.545	23.98 or 11+10log(B) = 26.94	PASS
134	5670	MCS0	16.5	17.25	53.029	23.98 or 11+10log(B) = 26.94	PASS
142	5710(U-NII 2C)	MCS0	16	15.86	38.51	23.98 or 11+10log(B) = 26.40	PASS
142	5710 (U-NII 3)	MCS0	16	7.15	5.19	30	PASS
151	5755	MCS0	20.5	20.70	117.359	30	PASS
159	5795	MCS0	21	21.28	134.127	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS8	16.5	17.09	16.56	20.16	103.718	23.98	PASS
46	5230	MCS8	16.5	17.25	16.87	20.39	109.386	23.98	PASS
54	5270	MCS8	17	17.56	16.83	20.54	113.130	23.98 or 11+10log(B) = 26.92	PASS
62	5310	MCS8	16.5	16.86	16.64	20.08	101.786	23.98 or 11+10log(B) = 26.91	PASS
102	5510	MCS8	16.5	16.93	16.51	20.05	101.171	23.98 or 11+10log(B) = 26.91	PASS
110	5550	MCS8	16	16.22	15.87	19.37	86.576	23.98 or 11+10log(B) = 26.94	PASS
134	5670	MCS8	16.5	17.27	17.05	20.49	111.863	23.98 or 11+10log(B) = 26.94	PASS
142	5710(U-NII 2C)	MCS8	16	16.18	15.61	19.24	83.894	23.98 or 11+10log(B) = 26.40	PASS
142	5710 (U-NII 3)	MCS8	16	7.86	6.91	10.74	11.855	30	PASS
151	5755	MCS8	20.5	21.02	20.45	24.07	255.259	30	PASS
159	5795	MCS8	21	22.01	20.96	24.84	304.939	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.5	17.20	52.514	23.98	PASS
46	5230	MCS0	16.5	17.31	53.861	23.98	PASS
54	5270	MCS0	17	17.90	61.699	23.98 or 11+10log(B) = 27.01	PASS
62	5310	MCS0	16.5	17.01	50.266	23.98 or 11+10log(B) = 27.03	PASS
102	5510	MCS0	16.5	17.06	50.848	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	16	16.33	42.981	23.98 or 11+10log(B) = 26.97	PASS
134	5670	MCS0	16.5	17.43	55.370	23.98 or 11+10log(B) = 27.01	PASS
142	5710(U-NII 2C)	MCS0	16	16.31	42.73	23.98 or 11+10log(B) = 26.46	PASS
142	5710 (U-NII 3)	MCS0	16	7.98	6.28	30	PASS
151	5755	MCS0	20.5	21.25	133.437	30	PASS
159	5795	MCS0	21	22.19	165.682	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.5	16.40	43.679	23.98	PASS
46	5230	MCS0	16.5	16.97	49.805	23.98	PASS
54	5270	MCS0	17	16.99	50.035	23.98 or 11+10log(B) = 26.92	PASS
62	5310	MCS0	16.5	16.85	48.448	23.98 or 11+10log(B) = 26.91	PASS
102	5510	MCS0	16.5	16.71	46.911	23.98 or 11+10log(B) = 26.91	PASS
110	5550	MCS0	16	16.03	40.112	23.98 or 11+10log(B) = 26.94	PASS
134	5670	MCS0	16.5	17.11	51.437	23.98 or 11+10log(B) = 26.94	PASS
142	5710(U-NII 2C)	MCS0	16	15.66	36.84	23.98 or 11+10log(B) = 26.40	PASS
142	5710 (U-NII 3)	MCS0	16	6.96	4.97	30	PASS
151	5755	MCS0	20.5	20.53	113.052	30	PASS
159	5795	MCS0	21	21.09	128.610	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	16.5	16.98	16.51	19.98	99.642	23.98	PASS
46	5230	MCS0	16.5	17.21	16.84	20.26	106.219	23.98	PASS
54	5270	MCS0	17	17.49	16.78	20.38	109.208	23.98 or 11+10log(B) = 26.92	PASS
62	5310	MCS0	16.5	16.83	16.59	19.94	98.735	23.98 or 11+10log(B) = 26.91	PASS
102	5510	MCS0	16.5	16.87	16.43	19.89	97.468	23.98 or 11+10log(B) = 26.91	PASS
110	5550	MCS0	16	16.13	15.83	19.22	83.477	23.98 or 11+10log(B) = 26.94	PASS
134	5670	MCS0	16.5	17.21	16.98	20.33	107.884	23.98 or 11+10log(B) = 26.94	PASS
142	5710(U-NII 2C)	MCS0	16	16.14	15.59	19.11	81.408	23.98 or 11+10log(B) = 26.40	PASS
142	5710 (U-NII 3)	MCS0	16	7.82	6.89	10.61	11.503	30	PASS
151	5755	MCS0	20.5	20.93	20.38	23.90	245.288	30	PASS
159	5795	MCS0	21	21.92	20.87	24.66	292.396	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	16.5	17.36	54.485	23.98	PASS
		MCS0	242/61	13.5	14.58	28.726	23.98	PASS
46	5230	MCS0	full	16.5	17.67	58.516	23.98	PASS
54	5270	MCS0	full	16.5	17.60	57.581	23.98 or 11+10log(B) = 27.08	PASS
		MCS0	full	16.5	17.36	54.485	23.98 or 11+10log(B) = 27.06	PASS
62	5310	MCS0	full	16.5	17.36	54.485	23.98 or 11+10log(B) = 27.06	PASS
		MCS0	242/62	16	16.67	46.481	23.98 or 11+10log(B) = 27.06	PASS
102	5510	MCS0	full	15	15.96	39.471	23.98 or 11+10log(B) = 27.00	PASS
		MCS0	242/61	12	12.87	19.377	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	full	16	16.59	45.633	23.98 or 11+10log(B) = 27.05	PASS
134	5670	MCS0	full	16	17.15	51.913	23.98 or 11+10log(B) = 27.05	PASS
		MCS0	242/62	12	13.19	20.858	23.98 or 11+10log(B) = 27.05	PASS
142	5710(U-NII 2C)	MCS0	full	16	16.51	44.728	23.98 or 11+10log(B) = 26.46	PASS
142	5710 (U-NII 3)	MCS0	full	16	8.19	6.591	30	PASS
151	5755	MCS0	full	20.5	21.44	139.404	30	PASS
		MCS0	242/61	16	17.16	52.033	30	PASS
159	5795	MCS0	full	21	22.38	173.092	30	PASS
		MCS0	242/62	15.5	16.96	49.691	30	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	16.5	16.59	45.633	23.98	PASS
		MCS0	242/61	13.5	13.41	21.942	23.98	PASS
46	5230	MCS0	full	16.5	17.13	51.675	23.98	PASS
54	5270	MCS0	full	16.5	16.87	48.672	23.98 or 11+10log(B) = 27.04	PASS
62	5310	MCS0	full	16.5	17.05	50.731	23.98 or 11+10log(B) = 27.05	PASS
		MCS0	242/62	16	16.64	46.161	23.98 or 11+10log(B) = 27.05	PASS
102	5510	MCS0	full	15	15.43	34.936	23.98 or 11+10log(B) = 27.06	PASS
		MCS0	242/61	12	12.20	16.606	23.98 or 11+10log(B) = 27.06	PASS
110	5550	MCS0	full	16	16.16	41.331	23.98 or 11+10log(B) = 27.05	PASS
134	5670	MCS0	full	16	16.77	47.564	23.98 or 11+10log(B) = 27.08	PASS
		MCS0	242/62	12	13.00	19.965	23.98 or 11+10log(B) = 27.08	PASS
142	5710(U-NII 2C)	MCS0	full	16	15.82	38.191	23.98 or 11+10log(B) = 26.45	PASS
142	5710 (U-NII 3)	MCS0	full	16	7.39	5.489	30	PASS
151	5755	MCS0	full	20.5	20.73	118.379	30	PASS
		MCS0	242/61	16	16.85	48.448	30	PASS
159	5795	MCS0	full	21	21.20	131.910	30	PASS
		MCS0	242/62	15.5	16.03	40.112	30	PASS

802.11ax_HE40_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
38	5190	MCS0	full	16	16.65	15.93	19.54	89.908	23.98	PASS
		MCS0	242/61	13.5	14.38	13.24	17.08	51.055	23.98	PASS
46	5230	MCS0	full	16.5	17.44	16.93	20.43	110.295	23.98	PASS
54	5270	MCS0	full	16.5	17.35	16.72	20.28	106.647	23.98 or 11+10log(B) = 27.04	PASS
62	5310	MCS0	full	15	15.62	15.49	18.79	75.658	23.98 or 11+10log(B) = 27.05	PASS
		MCS0	242/62	14	14.54	14.38	17.69	58.800	23.98 or 11+10log(B) = 27.05	PASS
102	5510	MCS0	full	15	15.73	15.19	18.70	74.156	23.98 or 11+10log(B) = 27.00	PASS
		MCS0	242/61	12	12.86	12.21	15.78	37.846	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	full	16	16.58	15.92	19.50	89.035	23.98 or 11+10log(B) = 27.05	PASS
134	5670	MCS0	full	16	17.04	16.89	20.20	104.682	23.98 or 11+10log(B) = 27.05	PASS
		MCS0	242/62	12	12.91	12.58	15.98	39.639	23.98 or 11+10log(B) = 27.05	PASS
142	5710(U-NII 2C)	MCS0	full	16	16.26	15.63	19.19	82.925	23.98 or 11+10log(B) = 26.45	PASS
142	5710 (U-NII 3)	MCS0	full	16	7.95	7.20	10.82	12.080	30	PASS
151	5755	MCS0	full	20.5	21.25	20.55	24.15	259.845	30	PASS
		MCS0	242/61	16	16.93	16.62	20.01	100.250	30	PASS
159	5795	MCS0	full	21	22.12	21.03	24.84	304.942	30	PASS
		MCS0	242/62	15.5	17.02	15.68	19.63	91.929	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	16	17.14	51.756	23.98	PASS
58	5290	MCS0	17	18.05	63.820	23.98 or 11+10log(B) = 30.13	PASS
106	5530	MCS0	13	13.77	23.821	23.98 or 11+10log(B) = 30.11	PASS
122	5610	MCS0	15	16.03	40.083	23.98 or 11+10log(B) = 30.08	PASS
138	5690(U-NII 2C)	MCS0	17	17.79	60.05	23.98 or 11+10log(B) = 29.78	PASS
138	5690 (U-NII 3)	MCS0	17	6.39	4.36	30	PASS
155	5775	MCS0	17	18.23	66.521	30	PASS

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	16	16.16	41.301	23.98	PASS
58	5290	MCS0	17	17.01	50.229	23.98 or $11+10\log(B) = 30.07$	PASS
106	5530	MCS0	13	13.32	21.476	23.98 or $11+10\log(B) = 30.02$	PASS
122	5610	MCS0	15	15.33	34.116	23.98 or $11+10\log(B) = 30.08$	PASS
138	5690(U-NII 2C)	MCS0	17	17.17	52.15	23.98 or $11+10\log(B) = 29.77$	PASS
138	5690 (U-NII 3)	MCS0	17	5.67	3.69	30	PASS
155	5775	MCS0	17	17.12	51.518	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	16	16.72	15.83	19.72	93.705	23.98	PASS
58	5290	MCS0	14.5	15.15	14.45	18.23	66.588	23.98 or $11+10\log(B) = 30.07$	PASS
106	5530	MCS0	13	13.43	12.97	16.63	45.983	23.98 or $11+10\log(B) = 30.02$	PASS
122	5610	MCS0	15	15.66	14.96	18.74	74.885	23.98 or $11+10\log(B) = 30.08$	PASS
138	5690(U-NII 2C)	MCS0	17	17.42	16.85	20.56	113.864	23.98 or $11+10\log(B) = 29.77$	PASS
138	5690 (U-NII 3)	MCS0	17	6.03	5.35	9.12	8.165	30	PASS
155	5775	MCS0	17	17.77	16.95	20.80	120.205	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	15.5	16.74	47.236	23.98	PASS
		MCS0	484/65	12	12.38	17.309	23.98	PASS
58	5290	MCS0	full	16.5	17.67	58.516	23.98 or $11+10\log(B) = 30.09$	PASS
		MCS0	484/66	14	13.95	24.847	23.98 or $11+10\log(B) = 30.09$	PASS
106	5530	MCS0	full	11.5	12.43	17.510	23.98 or $11+10\log(B) = 30.08$	PASS
		MCS0	484/65	10	10.65	11.622	23.98 or $11+10\log(B) = 30.08$	PASS
122	5610	MCS0	full	15	15.98	39.653	23.98 or $11+10\log(B) = 30.09$	PASS
		MCS0	484/66	17	17.55	56.922	23.98 or $11+10\log(B) = 30.09$	PASS
138	5690(U-NII 2C)	MCS0	full	17	17.89	61.466	23.98 or $11+10\log(B) = 29.77$	PASS
138	5690 (U-NII 3)	MCS0	full	17	6.38	4.341	30	PASS
155	5775	MCS0	full	17	18.26	67.031	30	PASS
		MCS0	484/65	12	12.89	19.466	30	PASS
		MCS0	484/66	12.5	13.27	21.246	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	15.5	15.79	37.956	23.98	PASS
		MCS0	484/65	12	11.15	13.040	23.98	PASS
58	5290	MCS0	full	16.5	16.76	47.454	23.98 or $11+10\log(B) = 30.12$	PASS
		MCS0	484/66	14	13.37	21.741	23.98 or $11+10\log(B) = 30.12$	PASS
106	5530	MCS0	full	11.5	12.01	15.896	23.98 or $11+10\log(B) = 30.10$	PASS
		MCS0	484/65	10	10.15	10.358	23.98 or $11+10\log(B) = 30.10$	PASS
122	5610	MCS0	full	15	15.45	35.098	23.98 or $11+10\log(B) = 30.08$	PASS
		MCS0	484/66	17	17.10	51.319	23.98 or $11+10\log(B) = 30.08$	PASS
138	5690(U-NII 2C)	MCS0	full	17	17.26	53.233	23.98 or $11+10\log(B) = 29.80$	PASS
138	5690 (U-NII 3)	MCS0	full	17	6.11	4.083	30	PASS
155	5775	MCS0	full	17	17.06	50.848	30	PASS
		MCS0	484/65	12	12.26	16.837	30	PASS
		MCS0	484/66	12.5	12.28	16.915	30	PASS

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802.11ax_HE80 MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
42	5210	MCS0	full	15.5	16.48	15.55	19.27	84.585	23.98	PASS
		MCS0	484/65	11.5	11.62	10.42	14.29	26.881	23.98	PASS
58	5290	MCS0	full	14	15.03	14.35	17.94	62.178	23.98 or 11+10log(B) = 30.09	PASS
		MCS0	484/66	12	11.65	11.32	14.72	29.656	23.98 or 11+10log(B) = 30.09	PASS
106	5530	MCS0	full	11.5	12.23	11.87	15.29	33.782	23.98 or 11+10log(B) = 30.08	PASS
		MCS0	484/65	10	10.44	9.79	13.36	21.678	23.98 or 11+10log(B) = 30.08	PASS
122	5610	MCS0	full	15	15.95	15.32	18.88	77.259	23.98 or 11+10log(B) = 30.08	PASS
		MCS0	484/66	17	17.37	16.88	20.36	108.767	23.98 or 11+11log(B) = 30.08	PASS
138	5690(U-NII 2C)	MCS0	full	17	17.58	17.00	20.53	113.017	23.98 or 11+10log(B) = 29.77	PASS
138	5690 (U-NII 3)	MCS0	full	17	6.07	5.85	9.19	8.302	30	PASS
155	5775	MCS0	full	17	18.08	16.84	20.74	118.500	30	PASS
		MCS0	484/65	11.5	12.17	11.61	15.13	32.599	30	PASS
		MCS0	484/66	12.5	13.13	12.09	15.87	38.673	30	PASS

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9.6 CDD Mode Measurement Result

9.6.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	20	20.86	121.998	23.98	PASS
44	5220	6	19.5	20.18	104.316	23.98	PASS
48	5240	6	20	20.71	117.856	23.98	PASS
52	5260	6	19.5	20.38	109.232	23.98 or $11+10\log(B) = 23.77$	PASS
60	5300	6	19	19.97	99.392	23.98 or $11+10\log(B) = 23.81$	PASS
64	5320	6	18.5	19.17	82.671	23.98 or $11+10\log(B) = 23.76$	PASS
100	5500	6	18	18.55	71.672	23.98 or $11+10\log(B) = 23.77$	PASS
116	5580	6	18.5	19.27	84.596	23.98 or $11+10\log(B) = 23.78$	PASS
140	5700	6	18	18.81	76.094	23.98 or $11+10\log(B) = 23.83$	PASS
144	5720(U-NII 2C)	6	18.5	18.16	65.39	23.98 or $11+10\log(B) = 22.60$	PASS
144	5720 (U-NII 3)	6	18.5	13.05	20.18	30	PASS
149	5745	6	26	25.87	386.680	30	PASS
157	5785	6	26	26.65	462.755	30	PASS
165	5825	6	26	26.18	415.290	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	20	19.65	92.332	23.98	PASS
44	5220	6	19.5	19.34	85.971	23.98	PASS
48	5240	6	20	19.84	96.461	23.98	PASS
52	5260	6	19.5	19.43	87.771	23.98 or $11+10\log(B) = 23.74$	PASS
60	5300	6	19	19.02	79.864	23.98 or $11+10\log(B) = 23.81$	PASS
64	5320	6	18.5	18.98	79.132	23.98 or $11+10\log(B) = 23.73$	PASS
100	5500	6	18	18.45	70.041	23.98 or $11+10\log(B) = 23.72$	PASS
116	5580	6	18.5	18.90	77.688	23.98 or $11+10\log(B) = 23.77$	PASS
140	5700	6	18	18.69	74.020	23.98 or $11+10\log(B) = 23.75$	PASS
144	5720(U-NII 2C)	6	18.5	17.91	61.84	23.98 or $11+10\log(B) = 22.61$	PASS
144	5720 (U-NII 3)	6	18.5	12.82	19.13	30	PASS
149	5745	6	26	25.74	375.276	30	PASS
157	5785	6	26	25.65	367.579	30	PASS
165	5825	6	26	25.77	377.878	30	PASS

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802.11a_2TX									
CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	19	19.66	18.45	22.41	174.213	23.98	PASS
44	5220	6	19	19.3	18.69	22.32	170.589	23.98	PASS
48	5240	6	20	20.36	19.55	23.29	213.190	23.98	PASS
52	5260	6	19.5	20.05	19.12	22.92	196.050	23.98 or 11+10log(B) = 23.74	PASS
60	5300	6	19	19.64	18.65	22.49	177.295	23.98 or 11+10log(B) = 23.81	PASS
64	5320	6	18.5	18.86	18.74	22.11	162.713	23.98 or 11+10log(B) = 23.73	PASS
100	5500	6	18	18.34	18.08	21.53	142.094	23.98 or 11+10log(B) = 23.72	PASS
116	5580	6	18.5	19.08	18.99	22.35	171.753	23.98 or 11+10log(B) = 23.77	PASS
140	5700	6	18	18.51	18.38	21.76	149.944	23.98 or 11+10log(B) = 23.75	PASS
144	5720(U-NII 2C)	6	18.5	17.78	17.57	20.99	125.519	23.98 or 11+10log(B) = 22.60	PASS
144	5720 (U-NII 3)	6	18.5	12.68	12.47	15.89	38.789	30	PASS
149	5745	6	26	25.58	25.36	28.79	755.998	30	PASS
157	5785	6	26	26.18	25.33	29.09	810.881	30	PASS
165	5825	6	26	25.95	25.52	29.05	804.291	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	20	20.74	118.467	23.98	PASS
44	5220	MCS0	19.5	20.01	100.137	23.98	PASS
48	5240	MCS0	20	20.55	113.396	23.98	PASS
52	5260	MCS0	20	20.68	116.841	23.98 or 11+10log(B) = 24.03	PASS
60	5300	MCS0	20	20.67	116.573	23.98 or 11+10log(B) = 24.00	PASS
64	5320	MCS0	19	19.38	86.616	23.98 or 11+10log(B) = 24.06	PASS
100	5500	MCS0	18.5	18.94	78.270	23.98 or 11+10log(B) = 23.98	PASS
116	5580	MCS0	19	19.68	92.810	23.98 or 11+10log(B) = 24.05	PASS
140	5700	MCS0	18.5	19.15	82.148	23.98 or 11+10log(B) = 24.07	PASS
144	5720(U-NII 2C)	MCS0	19	18.29	67.43	23.98 or 11+10log(B) = 22.82	PASS
144	5720 (U-NII 3)	MCS0	19	13.63	23.05	30	PASS
149	5745	MCS0	26	25.82	381.590	30	PASS
157	5785	MCS0	26	26.68	465.154	30	PASS
165	5825	MCS0	26	26.11	407.940	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	20	19.50	89.042	23.98	PASS
44	5220	MCS0	19.5	19.20	83.099	23.98	PASS
48	5240	MCS0	20	19.73	93.885	23.98	PASS
52	5260	MCS0	20	19.68	92.810	23.98 or 11+10log(B) = 23.97	PASS
60	5300	MCS0	20	19.54	89.866	23.98 or 11+10log(B) = 24.00	PASS
64	5320	MCS0	19	19.36	86.218	23.98 or 11+10log(B) = 24.01	PASS
100	5500	MCS0	18.5	18.78	75.439	23.98 or 11+10log(B) = 24.00	PASS
116	5580	MCS0	19	19.59	90.907	23.98 or 11+10log(B) = 24.06	PASS
140	5700	MCS0	18.5	19.13	81.770	23.98 or 11+10log(B) = 23.99	PASS
144	5720(U-NII 2C)	MCS0	19	18.25	66.81	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS0	19	13.43	22.03	30	PASS
149	5745	MCS0	26	25.78	378.091	30	PASS
157	5785	MCS0	26	25.60	362.741	30	PASS
165	5825	MCS0	26	25.72	372.904	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS8	20	20.45	19.27	23.14	205.884	23.98	PASS
44	5220	MCS8	19.5	19.84	19.1	22.72	187.155	23.98	PASS
48	5240	MCS8	20	20.31	19.47	23.15	206.374	23.98	PASS
52	5260	MCS8	20	20.31	19.38	23.11	204.461	23.98 or 11+10log(B) = 23.97	PASS
60	5300	MCS8	20	20.23	19.43	23.08	203.454	23.98 or 11+10log(B) = 24.00	PASS
64	5320	MCS8	19	19.17	19.06	22.35	171.855	23.98 or 11+10log(B) = 24.01	PASS
100	5500	MCS8	18.5	18.73	18.57	21.89	154.419	23.98 or 11+10log(B) = 23.98	PASS
116	5580	MCS8	19	19.52	19.41	22.70	186.278	23.98 or 11+10log(B) = 24.05	PASS
140	5700	MCS8	18.5	18.92	18.83	22.11	162.611	23.98 or 11+10log(B) = 23.99	PASS
144	5720(U-NII 2C)	MCS8	19	18.01	18.02	21.26	133.594	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS8	19	13.35	13.20	16.52	44.863	30	PASS
149	5745	MCS8	26	25.72	25.42	28.81	760.126	30	PASS
157	5785	MCS8	26	25.22	25.17	28.43	696.841	30	PASS
165	5825	MCS8	26	25.98	25.42	28.95	784.384	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	20	20.67	116.686	23.98	PASS
44	5220	MCS0	19.5	19.96	99.087	23.98	PASS
48	5240	MCS0	20	20.50	112.206	23.98	PASS
52	5260	MCS0	20	20.61	115.085	23.98 or 11+10log(B) = 24.03	PASS
60	5300	MCS0	20	20.59	114.556	23.98 or 11+10log(B) = 24.00	PASS
64	5320	MCS0	19	19.30	85.117	23.98 or 11+10log(B) = 24.06	PASS
100	5500	MCS0	18.5	18.86	76.916	23.98 or 11+10log(B) = 23.98	PASS
116	5580	MCS0	19	19.58	90.786	23.98 or 11+10log(B) = 24.05	PASS
140	5700	MCS0	18.5	19.09	81.099	23.98 or 11+10log(B) = 24.07	PASS
144	5720(U-NII 2C)	MCS0	19	18.24	66.73	23.98 or 11+10log(B) = 22.82	PASS
144	5720 (U-NII 3)	MCS0	19	13.58	22.81	30	PASS
149	5745	MCS0	26	25.80	380.204	30	PASS
157	5785	MCS0	26	26.65	462.399	30	PASS
165	5825	MCS0	26	26.08	405.524	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	20	19.47	88.515	23.98	PASS
44	5220	MCS0	19.5	19.17	82.607	23.98	PASS
48	5240	MCS0	20	19.68	92.900	23.98	PASS
52	5260	MCS0	20	19.60	91.205	23.98 or 11+10log(B) = 23.97	PASS
60	5300	MCS0	20	19.47	88.515	23.98 or 11+10log(B) = 24.00	PASS
64	5320	MCS0	19	19.26	84.337	23.98 or 11+10log(B) = 24.01	PASS
100	5500	MCS0	18.5	18.71	74.305	23.98 or 11+10log(B) = 24.00	PASS
116	5580	MCS0	19	19.53	89.746	23.98 or 11+10log(B) = 24.06	PASS
140	5700	MCS0	18.5	19.06	80.541	23.98 or 11+10log(B) = 23.99	PASS
144	5720(U-NII 2C)	MCS0	19	18.19	65.95	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS0	19	13.37	21.75	30	PASS
149	5745	MCS0	26	25.72	373.265	30	PASS
157	5785	MCS0	26	25.55	358.936	30	PASS
165	5825	MCS0	26	25.61	363.929	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	20	20.2	19.22	22.99	198.978	23.98	PASS
44	5220	MCS0	19.5	19.77	19.02	22.66	184.571	23.98	PASS
48	5240	MCS0	20	20.29	19.34	23.09	203.770	23.98	PASS
52	5260	MCS0	20	20.26	19.28	23.05	201.746	23.98 or 11+10log(B) = 23.97	PASS
60	5300	MCS0	20	20.16	19.32	23.01	200.021	23.98 or 11+10log(B) = 24.00	PASS
64	5320	MCS0	19	19.13	18.95	22.29	169.489	23.98 or 11+10log(B) = 24.01	PASS
100	5500	MCS0	18.5	18.66	18.51	21.84	152.620	23.98 or 11+10log(B) = 23.98	PASS
116	5580	MCS0	19	19.47	19.35	22.66	184.539	23.98 or 11+10log(B) = 24.05	PASS
140	5700	MCS0	18.5	18.86	18.75	22.06	160.539	23.98 or 11+10log(B) = 23.99	PASS
144	5720(U-NII 2C)	MCS0	19	17.95	17.94	21.20	131.761	23.98 or 11+10log(B) = 22.74	PASS
144	5720 (U-NII 3)	MCS0	19	13.29	13.12	16.46	44.249	30	PASS
149	5745	MCS0	26	25.66	25.36	28.76	752.153	30	PASS
157	5785	MCS0	26	25.13	25.11	28.37	687.145	30	PASS
165	5825	MCS0	26	25.92	25.34	28.89	774.488	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	20	21.01	126.089	23.98	PASS
		MCS0	26/0	15	16.03	40.057	23.98	PASS
		MCS0	52/37	15	16.17	41.369	23.98	PASS
		MCS0	106/53	20	20.56	113.679	23.98	PASS
44	5220	MCS0	full	19.5	20.27	106.336	23.98	PASS
48	5240	MCS0	full	19.5	20.25	105.847	23.98	PASS
52	5260	MCS0	full	20	20.95	124.359	23.98 or 11+10log(B) = 24.15	PASS
60	5300	MCS0	full	19	19.92	98.102	23.98 or 11+10log(B) = 24.13	PASS
64	5320	MCS0	full	19	19.66	92.401	23.98 or 11+10log(B) = 24.12	PASS
		MCS0	26/8	17	17.56	56.974	23.98 or 11+10log(B) = 24.12	PASS
		MCS0	52/40	16.5	17.27	53.294	23.98 or 11+10log(B) = 24.12	PASS
		MCS0	106/54	20	20.22	105.118	23.98 or 11+10log(B) = 24.12	PASS
100	5500	MCS0	full	19	19.50	89.059	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	26/0	15.5	16.05	40.242	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	52/37	16	16.68	46.524	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	106/53	15.5	15.92	39.055	23.98 or 11+10log(B) = 24.15	PASS
116	5580	MCS0	full	19	19.87	96.979	23.98 or 11+10log(B) = 24.23	PASS
140	5700	MCS0	full	18	18.92	77.925	23.98 or 11+10log(B) = 24.19	PASS
		MCS0	26/8	13.5	14.37	27.332	23.98 or 11+10log(B) = 24.19	PASS
		MCS0	52/40	13.5	14.48	28.034	23.98 or 11+10log(B) = 24.19	PASS
		MCS0	106/54	14	14.76	29.900	23.98 or 11+10log(B) = 24.19	PASS
144	5720(U-NII 2C)	MCS0	full	19	18.45	70.017	23.98 or 11+10log(B) = 22.87	PASS
144	5720 (U-NII 3)	MCS0	full	19	13.90	24.537	30	PASS
149	5745	MCS0	full	27.5	27.49	560.633	30	PASS
		MCS0	26/0	20	20.66	116.326	30	PASS
		MCS0	52/37	23	23.43	220.130	30	PASS
		MCS0	106/53	22.5	22.82	191.284	30	PASS
157	5785	MCS0	full	26	26.65	462.039	30	PASS
165	5825	MCS0	full	27.5	27.22	526.840	30	PASS
		MCS0	26/8	20	20.69	117.133	30	PASS
		MCS0	52/40	23.5	23.76	237.508	30	PASS
		MCS0	106/54	22.5	22.77	189.094	30	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	20	19.75	94.336	23.98	PASS
		MCS0	26/0	15	14.90	30.880	23.98	PASS
		MCS0	52/37	15	14.98	31.454	23.98	PASS
		MCS0	106/53	20	19.36	86.234	23.98	PASS
44	5220	MCS0	full	19.5	19.44	87.837	23.98	PASS
48	5240	MCS0	full	19.5	19.59	90.924	23.98	PASS
52	5260	MCS0	full	20	19.97	99.238	23.98 or $11+10\log(B) = 24.16$	PASS
60	5300	MCS0	full	19	19.05	80.293	23.98 or $11+10\log(B) = 24.17$	PASS
64	5320	MCS0	full	19	19.55	90.090	23.98 or $11+10\log(B) = 24.25$	PASS
		MCS0	26/8	17	17.55	56.843	23.98 or $11+10\log(B) = 24.25$	PASS
		MCS0	52/40	16.5	17.11	51.366	23.98 or $11+10\log(B) = 24.25$	PASS
		MCS0	106/54	20	20.18	104.155	23.98 or $11+10\log(B) = 24.25$	PASS
100	5500	MCS0	full	19	19.43	87.635	23.98 or $11+10\log(B) = 24.19$	PASS
		MCS0	26/0	15.5	15.80	37.991	23.98 or $11+10\log(B) = 24.19$	PASS
		MCS0	52/37	16	16.36	43.219	23.98 or $11+10\log(B) = 24.19$	PASS
		MCS0	106/53	15.5	15.56	35.948	23.98 or $11+10\log(B) = 24.19$	PASS
116	5580	MCS0	full	19	19.76	94.554	23.98 or $11+10\log(B) = 24.14$	PASS
140	5700	MCS0	full	18	18.89	77.389	23.98 or $11+10\log(B) = 24.18$	PASS
		MCS0	26/8	13.5	14.15	25.982	23.98 or $11+10\log(B) = 24.18$	PASS
		MCS0	52/40	13.5	14.34	27.144	23.98 or $11+10\log(B) = 24.18$	PASS
		MCS0	106/54	14	14.55	28.489	23.98 or $11+10\log(B) = 24.18$	PASS
144	5720(U-NII 2C)	MCS0	full	19	18.39	68.951	23.98 or $11+10\log(B) = 22.87$	PASS
144	5720 (U-NII 3)	MCS0	full	19	13.82	24.090	30	PASS
149	5745	MCS0	full	27.5	26.82	480.483	30	PASS
		MCS0	26/0	20	20.60	114.730	30	PASS
		MCS0	52/37	23	23.15	206.385	30	PASS
		MCS0	106/53	22.5	22.71	186.500	30	PASS
157	5785	MCS0	full	26	25.77	377.293	30	PASS
165	5825	MCS0	full	27.5	26.47	443.280	30	PASS
		MCS0	26/8	20	20.51	112.377	30	PASS
		MCS0	52/40	23.5	23.59	228.391	30	PASS
		MCS0	106/54	22.5	22.76	188.659	30	PASS

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802.11ax_HE20_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
36	5180	MCS0	full	20	20.73	19.81	23.50	223.944	23.98	PASS
		MCS0	26/0	15	15.88	14.57	18.48	70.490	23.98	PASS
		MCS0	52/37	14.5	15.84	14.22	18.31	67.798	23.98	PASS
		MCS0	106/53	17.5	18.26	16.93	20.85	121.697	23.98	PASS
44	5220	MCS0	full	19.5	20.05	19.36	22.93	196.145	23.98	PASS
48	5240	MCS0	full	19.5	20.08	19.28	22.91	195.231	23.98	PASS
52	5260	MCS0	full	20	20.67	19.78	23.45	221.556	23.98 or 11+10log(B) = 24.15	PASS
60	5300	MCS0	full	19	19.73	18.84	22.51	178.437	23.98 or 11+10log(B) = 24.13	PASS
64	5320	MCS0	full	19	19.68	19.36	22.73	187.501	23.98 or 11+10log(B) = 24.12	PASS
		MCS0	26/8	15.5	16.14	15.83	19.19	83.078	23.98 or 11+10log(B) = 24.12	PASS
		MCS0	52/40	16	16.7	16.37	19.75	94.302	23.98 or 11+10log(B) = 24.12	PASS
		MCS0	106/54	17.5	17.97	17.57	20.98	125.363	23.98 or 11+10log(B) = 24.12	PASS
100	5500	MCS0	full	19	19.36	19.35	22.56	180.388	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	26/0	15	15.46	14.95	18.42	69.495	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	52/37	16	16.83	15.72	19.52	89.484	23.98 or 11+10log(B) = 24.15	PASS
		MCS0	106/53	15	15.38	14.36	18.11	64.669	23.98 or 11+10log(B) = 24.15	PASS
116	5580	MCS0	full	19	19.76	19.6	22.89	194.438	23.98 or 11+10log(B) = 24.14	PASS
140	5700	MCS0	full	18	18.68	18.65	21.87	153.890	23.98 or 11+10log(B) = 24.18	PASS
		MCS0	26/8	13.5	14.14	14.1	17.33	54.040	23.98 or 11+10log(B) = 24.18	PASS
		MCS0	52/40	13.5	14.37	14.15	17.47	55.827	23.98 or 11+10log(B) = 24.18	PASS
		MCS0	106/54	14	14.45	14.37	17.62	57.773	23.98 or 11+10log(B) = 24.18	PASS
144	5720(U-NII 2C)	MCS0	full	19	18.28	18.18	21.44	139.236	23.98 or 11+10log(B) = 22.87	PASS
144	5720 (U-NII 3)	MCS0	full	19	13.72	13.61	16.88	48.721	30	PASS
149	5745	MCS0	full	27.5	27.19	26.23	29.94	987.087	30	PASS
		MCS0	26/0	20	20.54	20.45	23.70	234.548	30	PASS
		MCS0	52/37	23	23.22	23.05	26.34	430.816	30	PASS
		MCS0	106/53	22.5	22.53	22.28	25.61	364.241	30	PASS
157	5785	MCS0	full	26	26.23	25.48	29.08	808.771	30	PASS
165	5825	MCS0	full	27.5	26.75	26.1	29.64	921.347	30	PASS
		MCS0	26/8	20	20.7	20.2	23.66	232.502	30	PASS
		MCS0	52/40	23.5	23.45	23.43	26.65	462.072	30	PASS
		MCS0	106/54	22.5	22.35	22.28	25.52	356.634	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	19.5	20.29	106.929	23.98	PASS
46	5230	MCS0	19.5	20.43	110.433	23.98	PASS
54	5270	MCS0	20	20.85	121.646	23.98 or 11+10log(B) = 26.99	PASS
62	5310	MCS0	19.5	20.16	103.776	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	19.5	20.10	102.352	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	19	19.59	91.012	23.98 or 11+10log(B) = 27.01	PASS
134	5670	MCS0	19.5	20.38	109.168	23.98 or 11+10log(B) = 27.06	PASS
142	5710(U-NII 2C)	MCS0	19	19.20	83.20	23.98 or 11+10log(B) = 26.41	PASS
142	5710 (U-NII 3)	MCS0	19	10.59	11.44	30	PASS
151	5755	MCS0	23.5	24.29	268.594	30	PASS
159	5795	MCS0	24	25.47	352.450	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	19.5	19.35	86.119	23.98	PASS
46	5230	MCS0	19.5	19.87	97.073	23.98	PASS
54	5270	MCS0	20	19.99	99.792	23.98 or 11+10log(B) = 26.95	PASS
62	5310	MCS0	19.5	20.07	101.648	23.98 or 11+10log(B) = 26.96	PASS
102	5510	MCS0	19.5	20.05	101.181	23.98 or 11+10log(B) = 26.94	PASS
110	5550	MCS0	19	19.38	86.716	23.98 or 11+10log(B) = 26.95	PASS
134	5670	MCS0	19.5	19.96	99.105	23.98 or 11+10log(B) = 26.96	PASS
142	5710(U-NII 2C)	MCS0	19	19.19	82.97	23.98 or 11+10log(B) = 26.39	PASS
142	5710 (U-NII 3)	MCS0	19	10.42	11.02	30	PASS
151	5755	MCS0	23.5	24.00	251.245	30	PASS
159	5795	MCS0	24	24.33	271.080	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS8	19.5	20.02	19.16	22.93	196.450	23.98	PASS
46	5230	MCS8	19.5	20.33	19.56	23.28	212.976	23.98	PASS
54	5270	MCS8	20	20.52	19.86	23.52	225.102	23.98 or 11+10log(B) = 26.95	PASS
62	5310	MCS8	19.5	19.87	19.44	22.98	198.682	23.98 or 11+10log(B) = 26.96	PASS
102	5510	MCS8	19.5	19.82	19.75	23.11	204.475	23.98 or 11+10log(B) = 26.94	PASS
110	5550	MCS8	19	19.31	19.15	22.55	179.970	23.98 or 11+10log(B) = 26.95	PASS
134	5670	MCS8	19.5	20.24	20.05	23.47	222.193	23.98 or 11+10log(B) = 26.96	PASS
142	5710(U-NII 2C)	MCS8	19	19.00	18.94	22.29	169.423	23.98 or 11+10log(B) = 26.39	PASS
142	5710 (U-NII 3)	MCS8	19	10.39	10.17	13.60	22.907	30	PASS
151	5755	MCS8	23.5	24.01	23.84	27.25	530.530	30	PASS
159	5795	MCS8	24	25.26	24.21	28.09	643.862	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	19.5	20.24	105.638	23.98	PASS
46	5230	MCS0	19.5	20.33	107.850	23.98	PASS
54	5270	MCS0	20	20.76	119.075	23.98 or 11+10log(B) = 26.99	PASS
62	5310	MCS0	19.5	20.07	101.583	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	19.5	20.00	99.959	23.98 or 11+10log(B) = 27.00	PASS
110	5550	MCS0	19	19.51	89.294	23.98 or 11+10log(B) = 27.01	PASS
134	5670	MCS0	19.5	20.27	106.370	23.98 or 11+10log(B) = 27.06	PASS
142	5710(U-NII 2C)	MCS0	19	19.15	82.20	23.98 or 11+10log(B) = 26.41	PASS
142	5710 (U-NII 3)	MCS0	19	10.53	11.31	30	PASS
151	5755	MCS0	23.5	24.22	264.131	30	PASS
159	5795	MCS0	24	25.44	349.800	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	19.5	19.23	83.718	23.98	PASS
46	5230	MCS0	19.5	19.80	95.460	23.98	PASS
54	5270	MCS0	20	19.94	98.587	23.98 or $11+10\log(B) = 26.95$	PASS
62	5310	MCS0	19.5	20.01	100.189	23.98 or $11+10\log(B) = 26.96$	PASS
102	5510	MCS0	19.5	19.96	99.042	23.98 or $11+10\log(B) = 26.94$	PASS
110	5550	MCS0	19	19.30	85.079	23.98 or $11+10\log(B) = 26.95$	PASS
134	5670	MCS0	19.5	19.87	97.011	23.98 or $11+10\log(B) = 26.96$	PASS
142	5710(U-NII 2C)	MCS0	19	19.06	80.47	23.98 or $11+10\log(B) = 26.39$	PASS
142	5710 (U-NII 3)	MCS0	19	10.29	10.69	30	PASS
151	5755	MCS0	23.5	23.91	245.935	30	PASS
159	5795	MCS0	24	24.26	266.575	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	19.5	19.86	19.03	22.85	192.899	23.98	PASS
46	5230	MCS0	19.5	20.21	19.42	23.22	209.964	23.98	PASS
54	5270	MCS0	20	20.48	19.71	23.50	223.900	23.98 or $11+10\log(B) = 26.95$	PASS
62	5310	MCS0	19.5	19.76	19.29	22.92	195.878	23.98 or $11+10\log(B) = 26.96$	PASS
102	5510	MCS0	19.5	19.68	19.59	23.02	200.620	23.98 or $11+10\log(B) = 26.94$	PASS
110	5550	MCS0	19	19.16	19.01	22.47	176.773	23.98 or $11+10\log(B) = 26.95$	PASS
134	5670	MCS0	19.5	20.08	19.02	22.97	198.187	23.98 or $11+10\log(B) = 26.96$	PASS
142	5710(U-NII 2C)	MCS0	19	18.82	18.82	22.21	166.327	23.98 or $11+10\log(B) = 26.39$	PASS
142	5710 (U-NII 3)	MCS0	19	10.21	10.05	13.52	22.486	30	PASS
151	5755	MCS0	23.5	23.89	23.71	27.19	523.532	30	PASS
159	5795	MCS0	24	25.13	24.08	28.03	634.623	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	19.5	20.36	108.679	23.98	PASS
		MCS0	242/61	16.5	17.46	55.737	23.98	PASS
46	5230	MCS0	full	19.5	20.65	116.184	23.98	PASS
54	5270	MCS0	full	19.5	20.48	111.724	23.98 or $11+10\log(B) = 27.06$	PASS
62	5310	MCS0	full	19.5	20.17	104.027	23.98 or $11+10\log(B) = 27.05$	PASS
		MCS0	242/62	19	19.61	91.442	23.98 or $11+10\log(B) = 27.05$	PASS
102	5510	MCS0	full	18	18.74	74.842	23.98 or $11+10\log(B) = 27.07$	PASS
		MCS0	242/61	15	15.97	39.550	23.98 or $11+10\log(B) = 27.07$	PASS
110	5550	MCS0	full	19	19.57	90.604	23.98 or $11+10\log(B) = 27.06$	PASS
134	5670	MCS0	full	19	20.07	101.659	23.98 or $11+10\log(B) = 27.01$	PASS
		MCS0	242/62	15	15.99	39.732	23.98 or $11+10\log(B) = 27.01$	PASS
142	5710(U-NII 2C)	MCS0	full	19	19.22	83.515	23.98 or $11+10\log(B) = 26.46$	PASS
142	5710 (U-NII 3)	MCS0	full	19	10.88	12.236	30	PASS
151	5755	MCS0	full	23.5	24.33	271.110	30	PASS
		MCS0	242/61	19	20.04	100.959	30	PASS
159	5795	MCS0	full	24	25.39	346.056	30	PASS
		MCS0	242/62	18.5	19.75	94.438	30	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	19.5	19.49	88.950	23.98	PASS
		MCS0	242/61	16.5	16.30	42.672	23.98	PASS
46	5230	MCS0	full	19.5	19.85	96.638	23.98	PASS
54	5270	MCS0	full	19.5	19.54	89.980	23.98 or 11+10log(B) = 27.07	PASS
62	5310	MCS0	full	19.5	19.97	99.345	23.98 or 11+10log(B) = 26.99	PASS
		MCS0	242/62	19	19.39	86.925	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	full	18	18.71	74.327	23.98 or 11+10log(B) = 27.06	PASS
		MCS0	242/61	15	15.41	34.765	23.98 or 11+10log(B) = 27.06	PASS
110	5550	MCS0	full	19	19.41	87.326	23.98 or 11+10log(B) = 27.04	PASS
134	5670	MCS0	full	19	20.01	100.264	23.98 or 11+10log(B) = 27.09	PASS
		MCS0	242/62	15	15.97	39.550	23.98 or 11+10log(B) = 27.09	PASS
142	5710(U-NII 2C)	MCS0	full	19	19.16	82.394	23.98 or 11+10log(B) = 26.47	PASS
142	5710 (U-NII 3)	MCS0	full	19	10.89	12.261	30	PASS
151	5755	MCS0	full	23.5	24.14	259.505	30	PASS
		MCS0	242/61	19	19.81	95.752	30	PASS
159	5795	MCS0	full	24	24.44	278.065	30	PASS
		MCS0	242/62	18.5	19.05	80.380	30	PASS

802.11ax_HE40_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					CH 0	CH 1				
38	5190	MCS0	full	19	19.68	18.83	22.52	178.547	23.98	PASS
		MCS0	242/61	16.5	17.16	16.05	19.88	97.322	23.98	PASS
46	5230	MCS0	full	19.5	20.54	19.75	23.40	219.013	23.98	PASS
54	5270	MCS0	full	19.5	20.23	19.54	23.14	206.084	23.98 or 11+10log(B) = 27.06	PASS
62	5310	MCS0	full	18	18.56	18.35	21.70	147.844	23.98 or 11+10log(B) = 26.99	PASS
		MCS0	242/62	17	17.39	17.18	20.53	112.928	23.98 or 11+10log(B) = 26.99	PASS
102	5510	MCS0	full	18	18.62	18.42	21.76	150.069	23.98 or 11+10log(B) = 27.06	PASS
		MCS0	242/61	15	15.69	15.34	18.76	75.167	23.98 or 11+10log(B) = 27.06	PASS
110	5550	MCS0	full	19	19.35	19.24	22.54	179.354	23.98 or 11+10log(B) = 27.04	PASS
134	5670	MCS0	full	19	19.95	19.82	23.13	205.459	23.98 or 11+10log(B) = 27.01	PASS
		MCS0	242/62	15	16.18	15.88	19.27	84.613	23.98 or 11+10log(B) = 27.01	PASS
142	5710(U-NII 2C)	MCS0	full	19	19.17	18.98	22.31	170.340	23.98 or 11+10log(B) = 26.46	PASS
142	5710 (U-NII 3)	MCS0	full	19	10.83	10.70	14.01	25.149	30	PASS
151	5755	MCS0	full	23.5	24.15	24.06	27.35	542.874	30	PASS
		MCS0	242/61	19	19.73	19.56	22.89	194.428	30	PASS
159	5795	MCS0	full	24	25.29	24.3	28.06	640.458	30	PASS
		MCS0	242/62	18.5	19.75	18.68	22.49	177.404	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	19	20.28	106.734	23.98	PASS
58	5290	MCS0	20	21.06	127.733	23.98 or 11+10log(B) = 30.11	PASS
106	5530	MCS0	16	16.75	47.348	23.98 or 11+10log(B) = 30.08	PASS
122	5610	MCS0	18	18.62	72.829	23.98 or 11+10log(B) = 30.08	PASS
138	5690(U-NII 2C)	MCS0	20	20.35	108.50	23.98 or 11+10log(B) = 29.78	PASS
138	5690 (U-NII 3)	MCS0	20	9.03	7.99	30	PASS
155	5775	MCS0	20	20.93	123.967	30	PASS

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	19	19.05	80.409	23.98	PASS
58	5290	MCS0	20	20.25	106.000	23.98 or 11+10log(B) = 30.08	PASS
106	5530	MCS0	16	16.69	46.699	23.98 or 11+10log(B) = 30.04	PASS
122	5610	MCS0	18	18.57	71.995	23.98 or 11+10log(B) = 30.06	PASS
138	5690(U-NII 2C)	MCS0	20	20.34	108.08	23.98 or 11+10log(B) = 29.77	PASS
138	5690 (U-NII 3)	MCS0	20	8.82	7.61	30	PASS
155	5775	MCS0	20	20.35	108.469	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	19	19.9	18.82	22.71	186.502	23.98	PASS
58	5290	MCS0	17.5	18.08	17.37	21.05	127.434	23.98 or 11+10log(B) = 30.08	PASS
106	5530	MCS0	16	16.69	16.33	19.83	96.096	23.98 or 11+10log(B) = 30.04	PASS
122	5610	MCS0	18	18.43	18.31	21.68	147.359	23.98 or 11+10log(B) = 30.06	PASS
138	5690(U-NII 2C)	MCS0	20	20.04	19.98	23.32	214.945	23.98 or 11+10log(B) = 29.77	PASS
138	5690 (U-NII 3)	MCS0	20	8.71	8.46	11.90	15.488	30	PASS
155	5775	MCS0	20	20.54	19.91	23.55	226.452	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	18.5	19.66	92.548	23.98	PASS
		MCS0	484/65	15	15.33	34.148	23.98	PASS
58	5290	MCS0	full	19.5	20.49	112.039	23.98 or 11+10log(B) = 30.09	PASS
		MCS0	484/66	17	17.12	51.567	23.98 or 11+10log(B) = 30.09	PASS
106	5530	MCS0	full	14.5	15.50	35.511	23.98 or 11+10log(B) = 30.13	PASS
		MCS0	484/65	13	13.65	23.194	23.98 or 11+10log(B) = 30.13	PASS
122	5610	MCS0	full	18	18.91	77.870	23.98 or 11+10log(B) = 30.09	PASS
		MCS0	484/66	20	20.19	104.561	23.98 or 11+10log(B) = 30.09	PASS
138	5690(U-NII 2C)	MCS0	full	20	20.55	113.427	23.98 or 11+10log(B) = 29.79	PASS
138	5690 (U-NII 3)	MCS0	full	20	9.33	8.575	30	PASS
155	5775	MCS0	full	20	21.05	127.458	30	PASS
		MCS0	484/65	15	15.80	38.051	30	PASS
		MCS0	484/66	15.5	16.14	41.150	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	18.5	18.69	74.023	23.98	PASS
		MCS0	484/65	15	13.87	24.399	23.98	PASS
58	5290	MCS0	full	19.5	19.48	88.791	23.98 or 11+10log(B) = 30.06	PASS
		MCS0	484/66	17	15.79	37.964	23.98 or 11+10log(B) = 30.06	PASS
106	5530	MCS0	full	14.5	15.41	34.783	23.98 or 11+10log(B) = 30.08	PASS
		MCS0	484/65	13	13.04	20.154	23.98 or 11+10log(B) = 30.08	PASS
122	5610	MCS0	full	18	18.84	76.625	23.98 or 11+10log(B) = 30.09	PASS
		MCS0	484/66	20	20.05	101.244	23.98 or 11+10log(B) = 30.09	PASS
138	5690(U-NII 2C)	MCS0	full	20	20.53	113.012	23.98 or 11+10log(B) = 29.80	PASS
138	5690 (U-NII 3)	MCS0	full	20	9.40	8.709	30	PASS
155	5775	MCS0	full	20	21.03	126.873	30	PASS
		MCS0	484/65	15	15.25	33.525	30	PASS
		MCS0	484/66	15.5	15.37	34.464	30	PASS

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802.11ax_HE80_MIMO												
CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
					CH 0	CH 1						
42	5210	MCS0	full	18.5	19.32	18.35	22.10	162.032	23.98			PASS
		MCS0	484/65	14.5	14.64	13.3	17.26	53.155	23.98			PASS
58	5290	MCS0	full	17	17.84	16.95	20.65	116.191	23.98	or 11+10log(B) =	30.06	PASS
		MCS0	484/66	15	14.79	14.21	17.74	59.479	23.98	or 11+10log(B) =	30.06	PASS
106	5530	MCS0	full	14.5	15.29	15.15	18.45	70.057	23.98	or 11+10log(B) =	30.08	PASS
		MCS0	484/65	13	13.34	12.81	16.32	42.826	23.98	or 11+10log(B) =	30.08	PASS
122	5610	MCS0	full	18	18.68	18.56	21.85	153.264	23.98	or 11+10log(B) =	30.09	PASS
		MCS0	484/66	20	19.98	19.72	23.09	203.513	23.98	or 11+11log(B) =	30.09	PASS
138	5690(U-NII 2C)	MCS0	full	20	20.31	20.19	23.48	222.910	23.98	or 11+10log(B) =	29.79	PASS
138	5690 (U-NII 3)	MCS0	full	20	9.10	9.06	12.31	17.013	30			PASS
155	5775	MCS0	full	20	20.85	20.28	23.81	240.343	30			PASS
		MCS0	484/65	14.5	15.17	14.43	18.05	63.822	30			PASS
		MCS0	484/66	15.5	15.97	15.15	18.81	76.090	30			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.			

CDD

As per section F. 2). d). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

(ii) If all transmit signals are *completely uncorrelated*, then

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

where

NANT = the total number of antennas

G is the gain in dBi.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

Beamforming

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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= approximately 1% of EBW, VBW $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
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. 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.

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 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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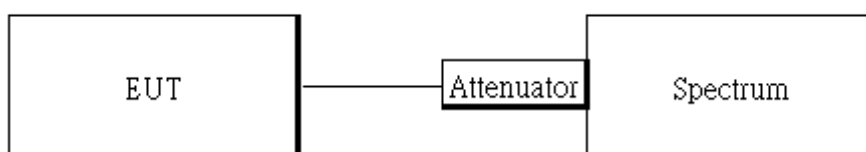
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10.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.4 Test Set-up



10.5 Beamforming Mode Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit
5180.00	2.38	0.14	0.32	4.73		11.00 dBm/MHz
5220.00	0.26	1.37	0.32	4.18		11.00 dBm/MHz
5240.00	3.15	4.22	0.32	7.05		11.00 dBm/MHz
5260.00	2.78	2.57	0.32	6.01		11.00 dBm/MHz
5300.00	2.40	0.98	0.32	5.08		11.00 dBm/MHz
5320.00	-0.54	-0.87	0.32	2.63		11.00 dBm/MHz
5500.00	3.78	0.60	0.32	5.81		11.00 dBm/MHz
5580.00	3.63	2.02	0.32	6.23		11.00 dBm/MHz
5700.00	2.98	1.28	0.32	5.54		11.00 dBm/MHz
5720 (U-NII 2C)	1.22	1.60	0.32	4.74		11.00 dBm/MHz
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit
5720 (U-NII 3)	-3.14	-3.72	0.32	2.22	2.13	30.00 dBm/500kHz
5745.00	4.92	3.06	0.32	2.22	9.64	30.00 dBm/500kHz
5785.00	5.40	3.83	0.32	2.22	10.24	30.00 dBm/500kHz
5825.00	4.08	4.58	0.32	2.22	9.89	30.00 dBm/500kHz

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POWER DENSITY 802.11ax 20 MODE								
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	2.07	4.49	0.22	6.68		11.00 dBm/MHz	-4.32
	26/0	4.01	4.98	0.22	7.75		11.00 dBm/MHz	-3.25
	52/37	1.56	5.01	0.22	6.85		11.00 dBm/MHz	-4.15
	106/53	0.39	3.54	0.22	5.47		11.00 dBm/MHz	-5.53
5220	full	2.01	1.36	0.22	4.93		11.00 dBm/MHz	-6.07
5240	full	2.91	1.57	0.22	5.52		11.00 dBm/MHz	-5.48
5260	full	2.82	1.73	0.22	5.54		11.00 dBm/MHz	-5.46
5300	full	1.70	2.12	0.22	5.15		11.00 dBm/MHz	-5.85
5320	full	2.24	0.33	0.22	4.62		11.00 dBm/MHz	-6.38
	26/8	2.47	4.63	0.22	6.91		11.00 dBm/MHz	-4.09
	52/40	6.44	4.54	0.22	8.82		11.00 dBm/MHz	-2.18
	106/54	-0.14	0.33	0.22	3.33		11.00 dBm/MHz	-7.67
5500	full	3.78	-0.33	0.22	5.42		11.00 dBm/MHz	-5.58
	26/0	2.09	1.41	0.22	4.99		11.00 dBm/MHz	-6.01
	52/37	5.56	2.74	0.22	7.61		11.00 dBm/MHz	-3.39
	106/53	-2.28	-4.37	0.22	0.03		11.00 dBm/MHz	-10.97
5580	full	4.19	1.76	0.22	6.37		11.00 dBm/MHz	-4.63
5700	full	1.79	0.21	0.22	4.30		11.00 dBm/MHz	-6.70
	26/8	3.65	0.92	0.22	5.73		11.00 dBm/MHz	-5.27
	52/40	3.11	1.56	0.22	5.63		11.00 dBm/MHz	-5.37
	106/54	-4.43	-2.82	0.22	-0.32		11.00 dBm/MHz	-11.32
5720 (U-NII 2C)	full	4.34	1.66	0.22	6.43		11.00 dBm/MHz	-4.57
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-4.58	-5.04	0.22	2.22	0.65	30.00 dBm/500kHz	-29.35
5745	full	3.43	4.39	0.22	2.22	9.39	30.00 dBm/500kHz	-20.61
	26/0	1.20	2.77	0.22	2.22	7.51	30.00 dBm/500kHz	-22.49
	52/37	6.40	5.83	0.22	2.22	11.57	30.00 dBm/500kHz	-18.43
	106/53	3.27	0.16	0.22	2.22	7.44	30.00 dBm/500kHz	-22.56
5785	full	4.38	4.25	0.22	2.22	9.77	30.00 dBm/500kHz	-20.23
5825	full	6.78	5.13	0.22	2.22	11.48	30.00 dBm/500kHz	-18.52
	26/8	-0.47	3.35	0.22	2.22	7.30	30.00 dBm/500kHz	-22.70
	52/40	6.52	5.61	0.22	2.22	11.54	30.00 dBm/500kHz	-18.46
	106/54	1.83	-1.84	0.22	2.22	5.82	30.00 dBm/500kHz	-24.18

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POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190.00	-1.65	-2.80	0.32	1.14		11.00 dBm/MHz	-9.86
5230.00	-2.10	0.75	0.32	2.89		11.00 dBm/MHz	-8.11
5270.00	0.64	-0.69	0.32	3.36		11.00 dBm/MHz	-7.64
5310.00	-2.77	-0.06	0.32	2.12		11.00 dBm/MHz	-8.88
5510.00	0.50	-0.60	0.32	3.32		11.00 dBm/MHz	-7.68
5550.00	-1.08	-0.68	0.32	2.45		11.00 dBm/MHz	-8.55
5670.00	1.72	-0.83	0.32	3.96		11.00 dBm/MHz	-7.04
5710 (U-NII 2C)	0.54	-2.07	0.32	2.76		11.00 dBm/MHz	-8.24
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-7.08	-9.44	0.32	2.22	-2.55	30.00 dBm/500kHz	-32.55
5755.00	0.05	-0.73	0.32	2.22	5.23	30.00 dBm/500kHz	-24.77
5795.00	1.25	-0.42	0.32	2.22	6.05	30.00 dBm/500kHz	-23.95

POWER DENSITY 802.11ax 40 MODE								
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-0.67	-0.15	0.22	2.83		11.00 dBm/MHz	-8.17
	242/61	-3.21	0.30	0.22	2.12		11.00 dBm/MHz	-8.88
5230	full	-3.36	-0.82	0.22	1.32		11.00 dBm/MHz	-9.68
5270	full	-2.56	-0.32	0.22	1.93		11.00 dBm/MHz	-9.07
5310	full	-0.26	-4.22	0.22	1.43		11.00 dBm/MHz	-9.57
	242/62	-2.27	-2.73	0.22	0.74		11.00 dBm/MHz	-10.26
5510	full	-0.94	-2.10	0.22	1.75		11.00 dBm/MHz	-9.25
	242/61	-6.10	-5.87	0.22	-2.75		11.00 dBm/MHz	-13.75
5550	full	0.90	-1.38	0.22	3.14		11.00 dBm/MHz	-7.86
5670	full	-0.59	0.56	0.22	3.25		11.00 dBm/MHz	-7.75
	242/62	-1.39	-3.34	0.22	0.97		11.00 dBm/MHz	-10.03
5710 (U-NII 2C)	full	-1.43	-1.51	0.22	1.76		11.00 dBm/MHz	-9.24
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	-6.87	-9.26	0.22	2.22	-2.45	30.00 dBm/500kHz	-32.45
5755	full	0.32	-0.24	0.22	2.22	5.50	30.00 dBm/500kHz	-24.50
	242/61	-2.32	-5.09	0.22	2.22	1.96	30.00 dBm/500kHz	-28.04
5795	full	0.86	-2.04	0.22	2.22	5.10	30.00 dBm/500kHz	-24.90
	242/62	-4.17	-5.38	0.22	2.22	0.72	30.00 dBm/500kHz	-29.28

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POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210.00	-5.78	-4.27	0.41	-1.54		11.00 dBm/MHz	-12.54
5290.00	-6.56	-5.45	0.41	-2.55		11.00 dBm/MHz	-13.55
5530.00	-3.02	-2.86	0.41	0.48		11.00 dBm/MHz	-10.52
5610.00	-3.10	-3.55	0.41	0.10		11.00 dBm/MHz	-10.90
5690 (U-NII 2C)	-0.15	-4.08	0.41	1.74		11.00 dBm/MHz	-9.26
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-8.43	-12.45	0.41	2.22	-4.35	30.00 dBm/500kHz	-34.35
5775.00	-5.98	-8.24	0.41	2.22	-1.32	30.00 dBm/500kHz	-31.32

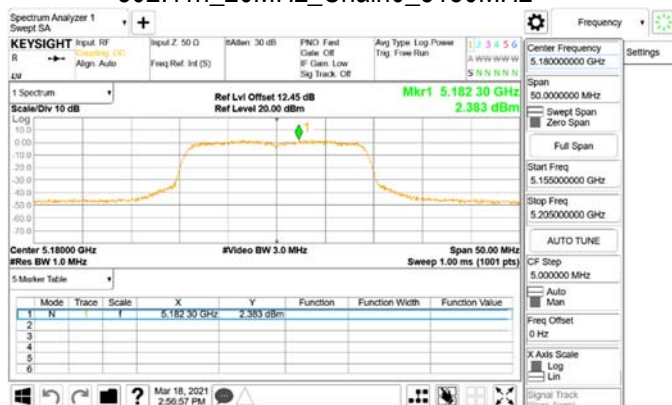
POWER DENSITY 802.11ax 80 MODE								
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-4.81	-2.78	0.22	-0.45		11.00 dBm/MHz	-11.45
	484/65	-13.87	-13.32	0.22	-10.36		11.00 dBm/MHz	-21.36
5290	full	-6.30	-4.58	0.22	-2.13		11.00 dBm/MHz	-13.13
	484/66	-11.97	-13.62	0.22	-9.49		11.00 dBm/MHz	-20.49
5530	full	-8.24	-8.48	0.22	-5.13		11.00 dBm/MHz	-16.13
	484/65	-11.28	-11.11	0.22	-7.96		11.00 dBm/MHz	-18.96
5610	full	-4.96	-4.47	0.22	-1.48		11.00 dBm/MHz	-12.48
	484/66	-3.66	-5.35	0.22	-1.19		11.00 dBm/MHz	-12.19
5690 (U-NII 2C)	full	-2.69	-2.43	0.22	0.67		11.00 dBm/MHz	-10.33
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-11.63	-14.84	0.22	2.22	-7.49	30.00 dBm/500kHz	-37.49
5775	full	-5.76	-8.56	0.22	2.22	-1.49	30.00 dBm/500kHz	-31.49
	484/65	-13.46	-14.87	0.22	2.22	-8.66	30.00 dBm/500kHz	-38.66
	484/66	-10.56	-15.55	0.22	2.22	-6.92	30.00 dBm/500kHz	-36.92

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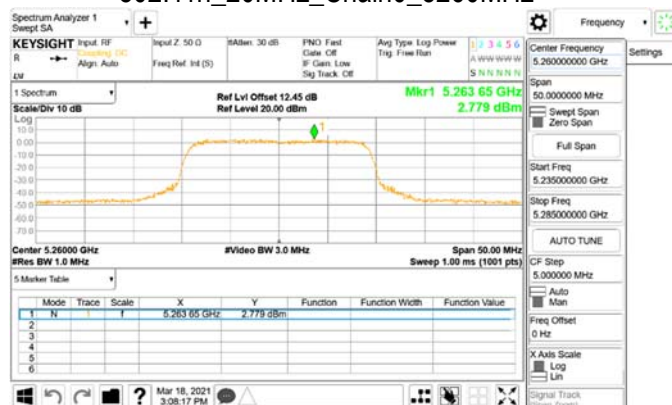
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802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5220MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz

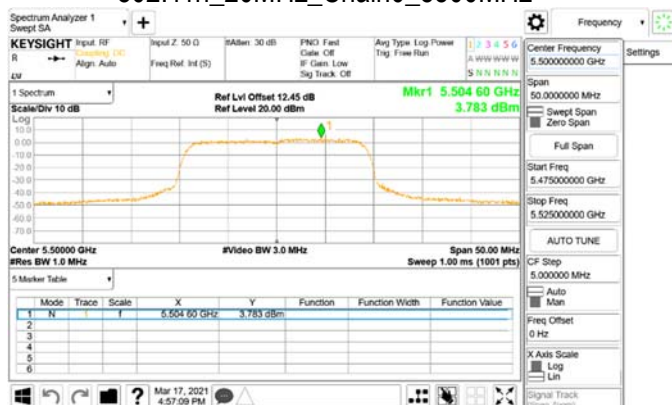


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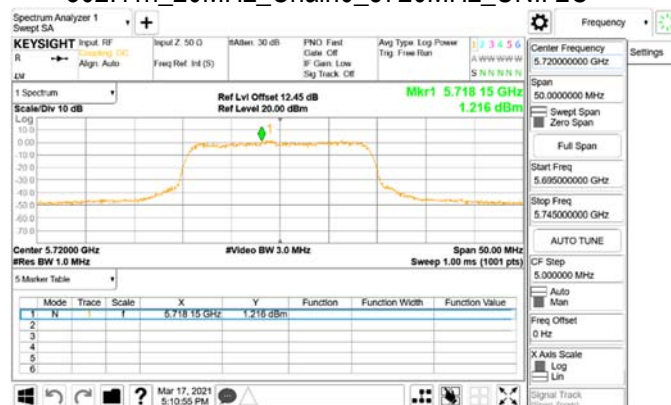
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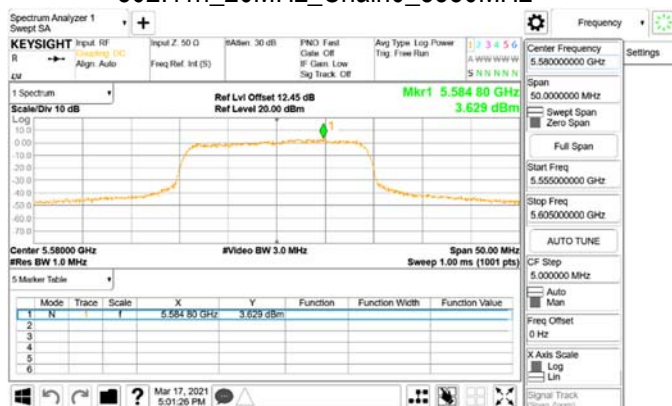
802.11n_20MHz_Chain0_5500MHz



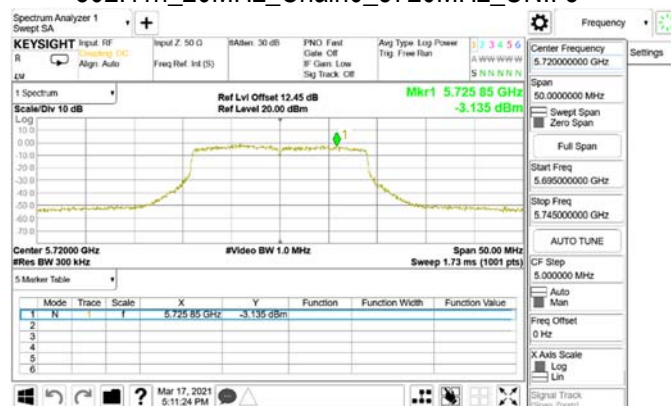
802.11n_20MHz_Chain0_5720MHz_UNII 2C



802.11n_20MHz_Chain0_5580MHz



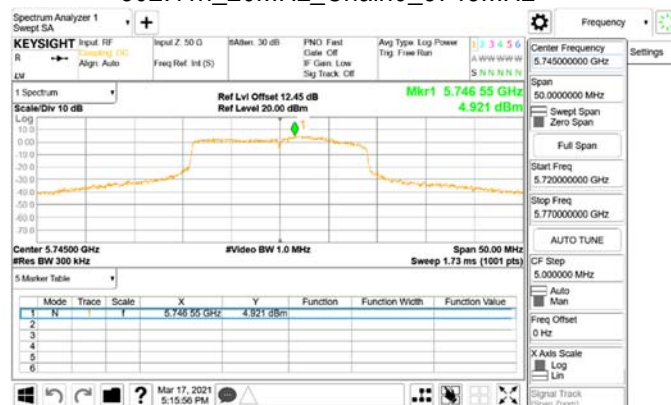
802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5745MHz



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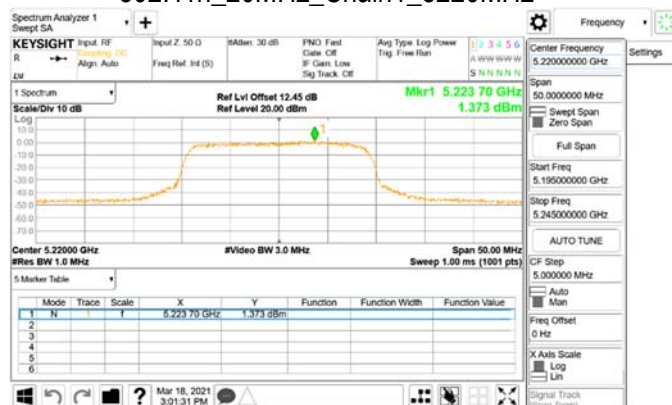
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802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



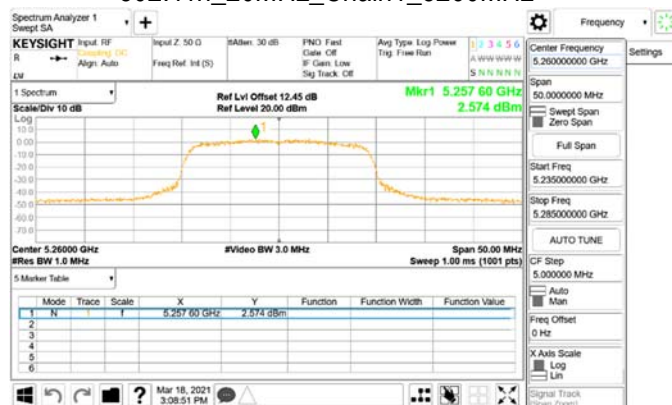
802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5260MHz



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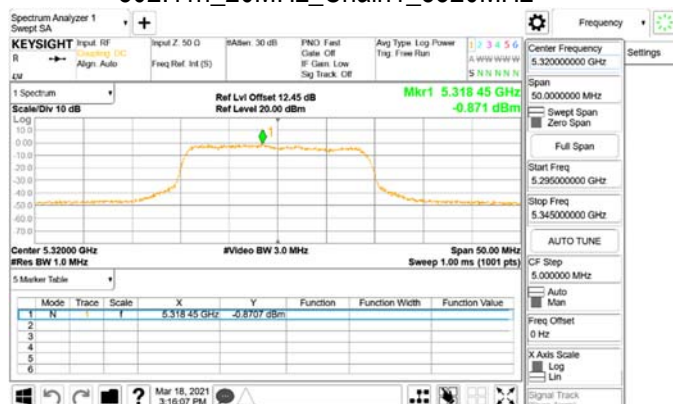
802.11n_20MHz_Chain1_5300MHz



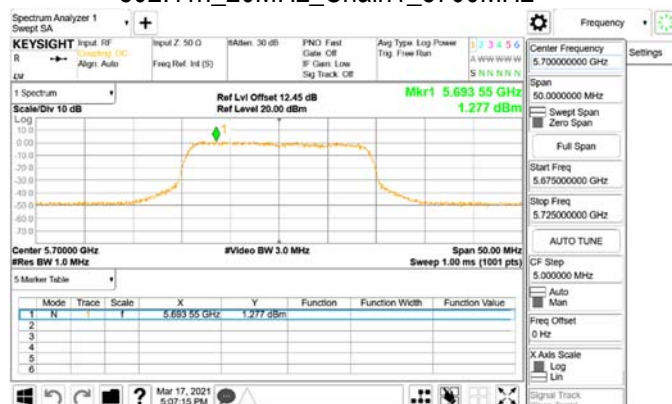
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5720MHz_UNII 2C

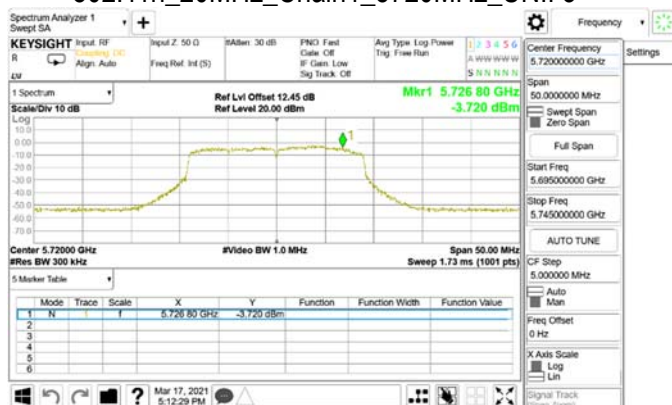


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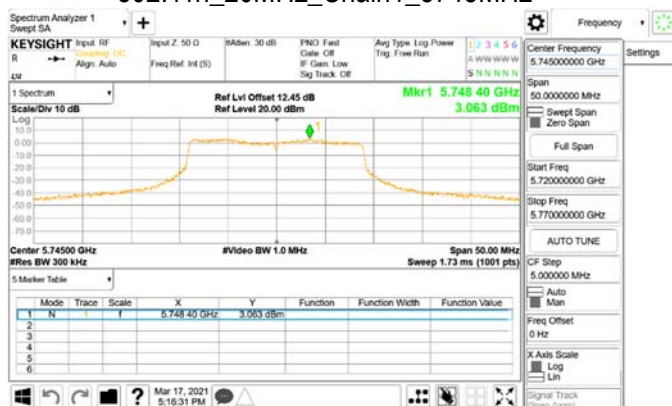
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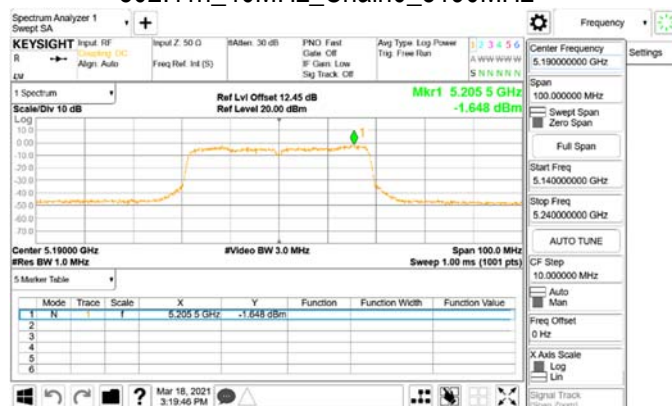
802.11n_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain1_5745MHz



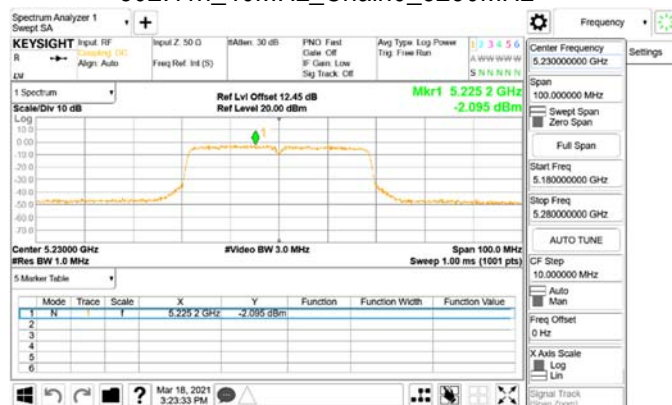
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz

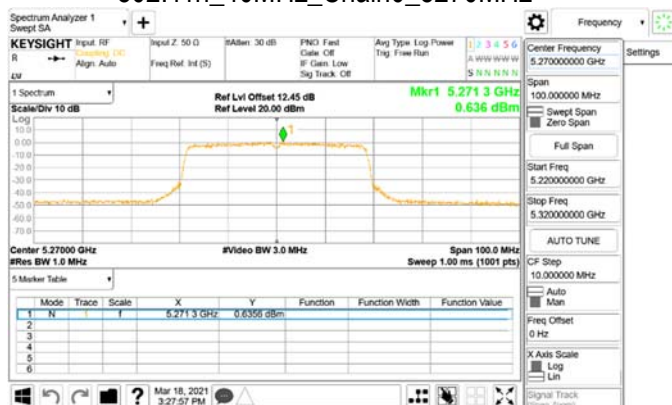


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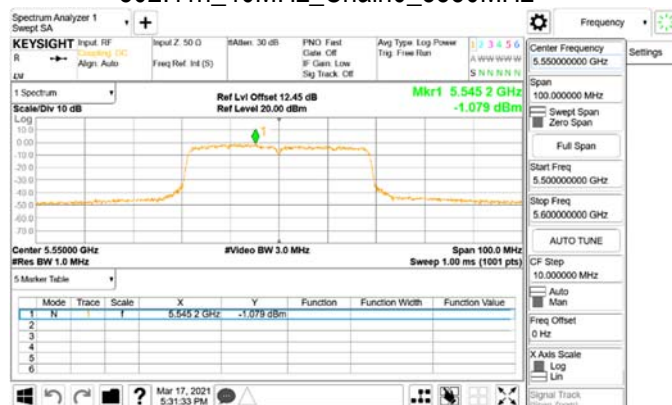
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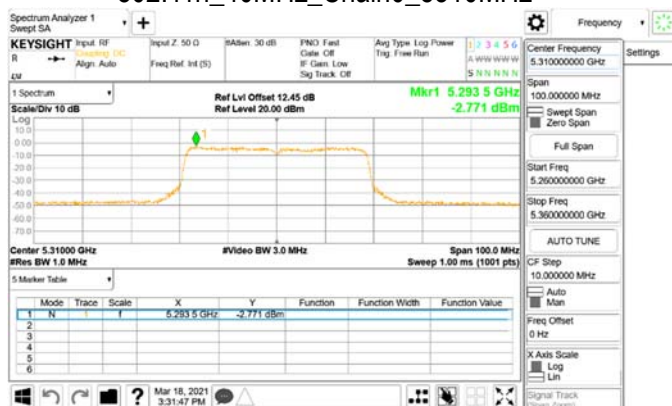
802.11n_40MHz_Chain0_5270MHz



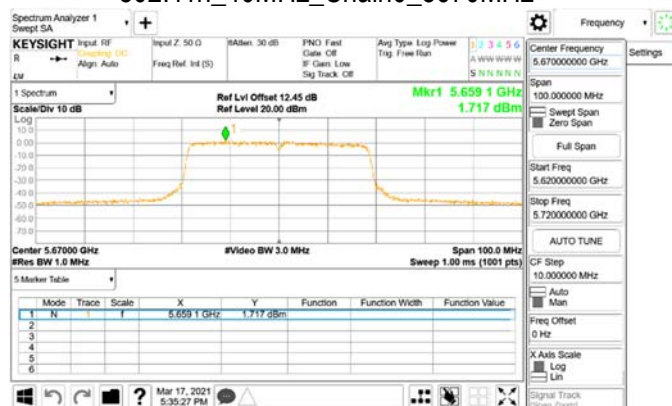
802.11n_40MHz_Chain0_5550MHz



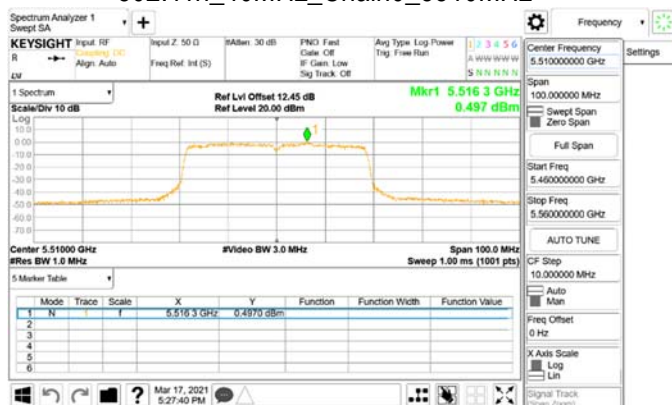
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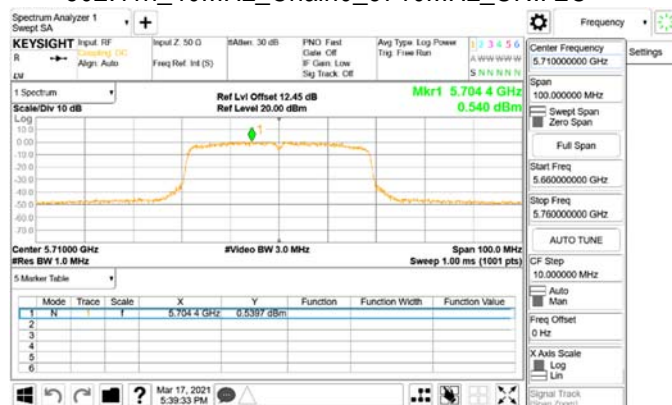
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C

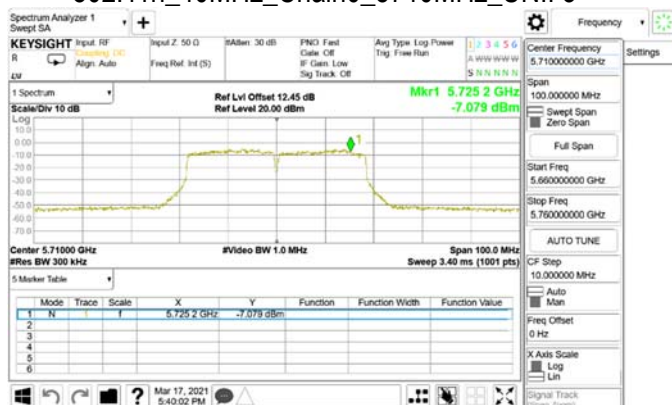


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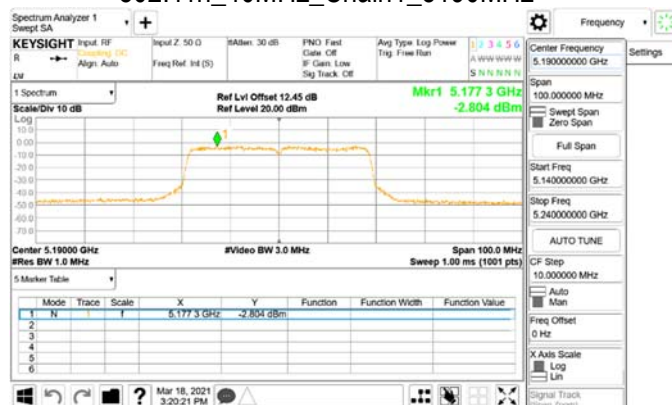
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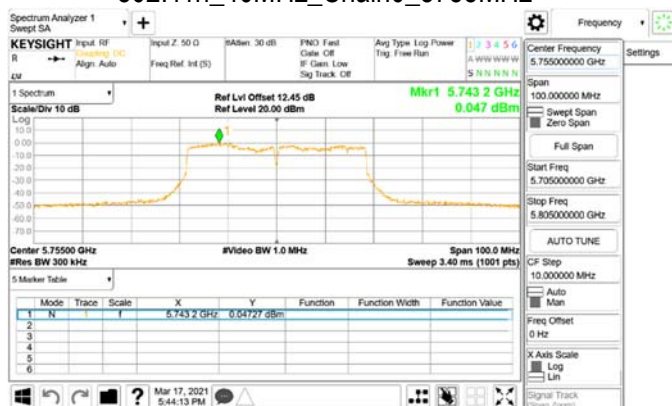
802.11n_40MHz_Chain0_5710MHz_UNII 3



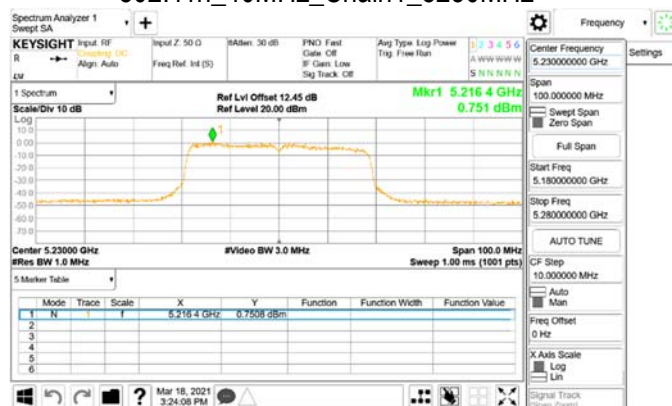
802.11n_40MHz_Chain1_5190MHz



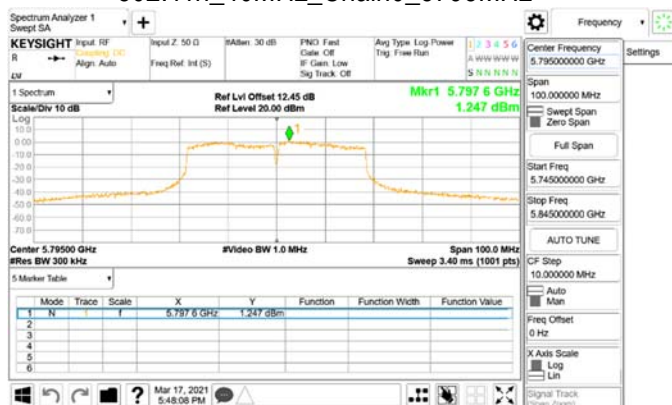
802.11n_40MHz_Chain0_5755MHz



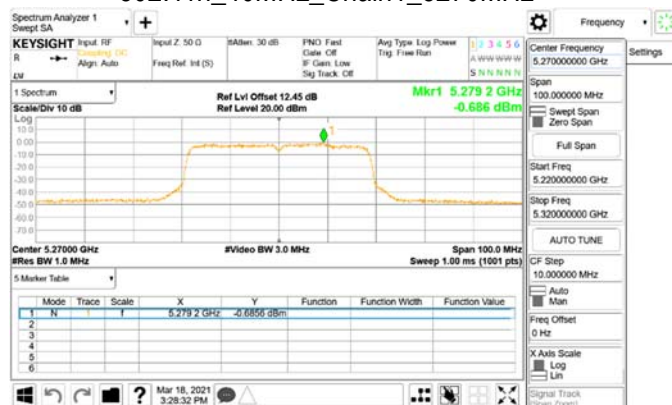
802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz



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