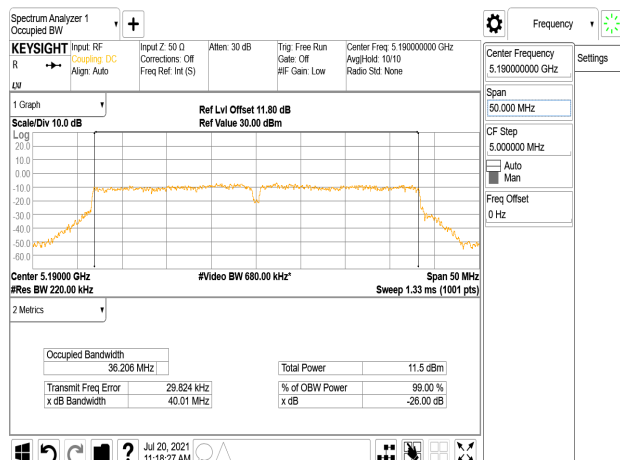


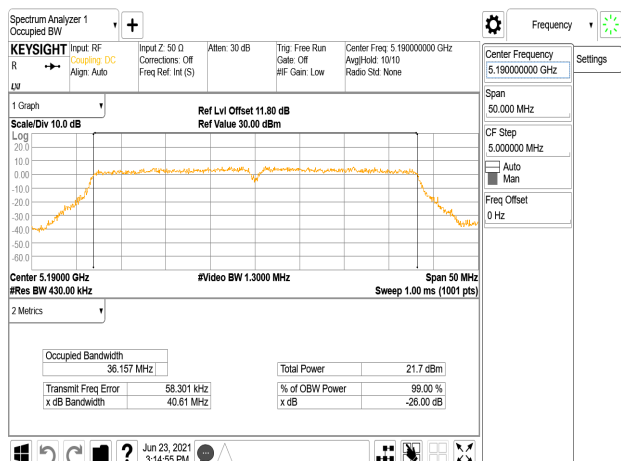
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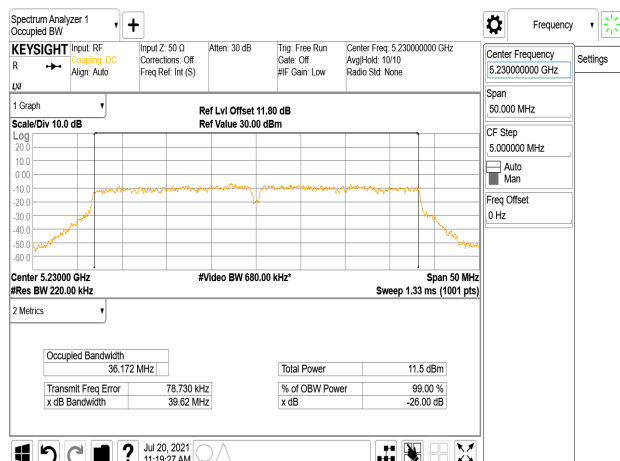
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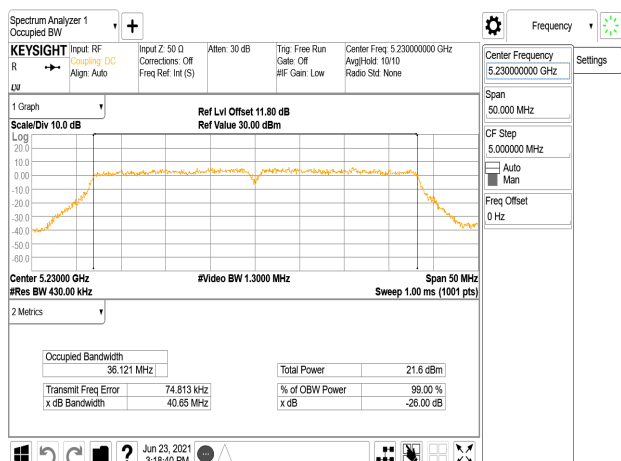
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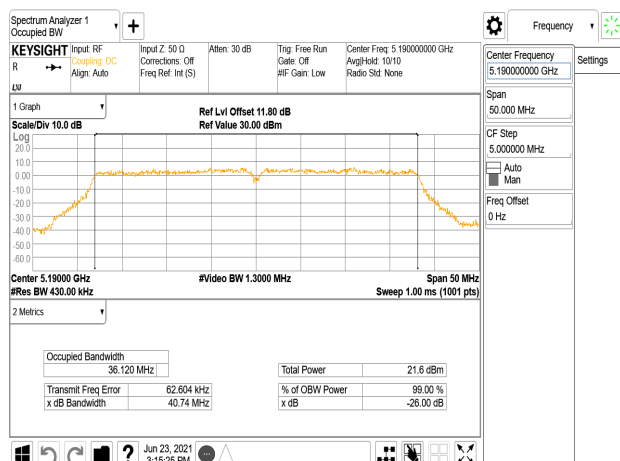
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802.11n_40MHz_Test_Chain0



802.11n_40MHz_Test_Chain1

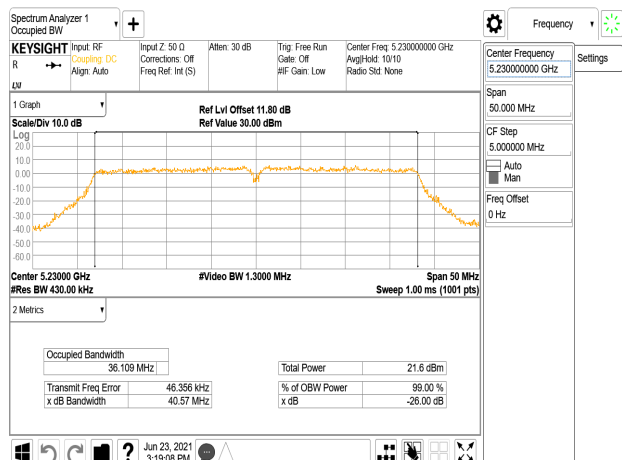


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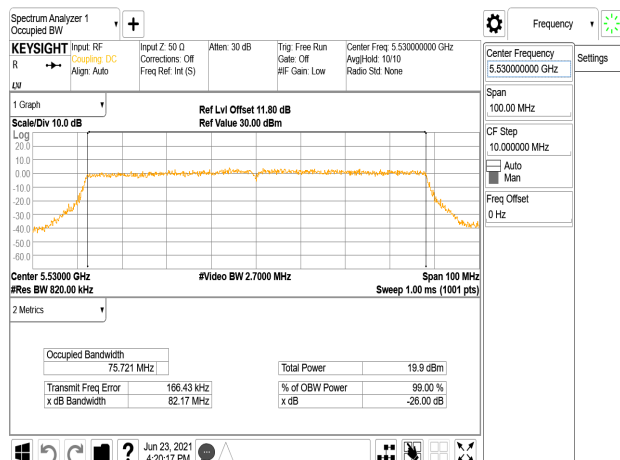
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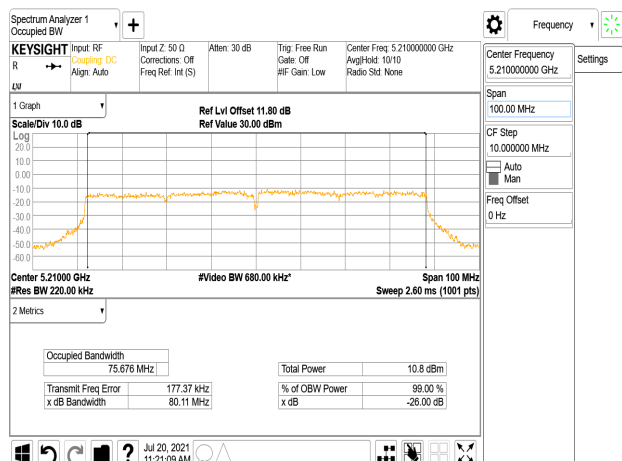
802.11n_40MHz_Test_Chain1



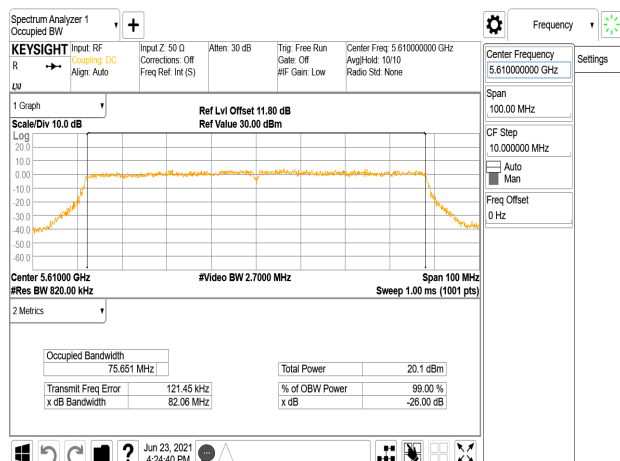
802.11ac_80MHz_Chain0_5530MHz



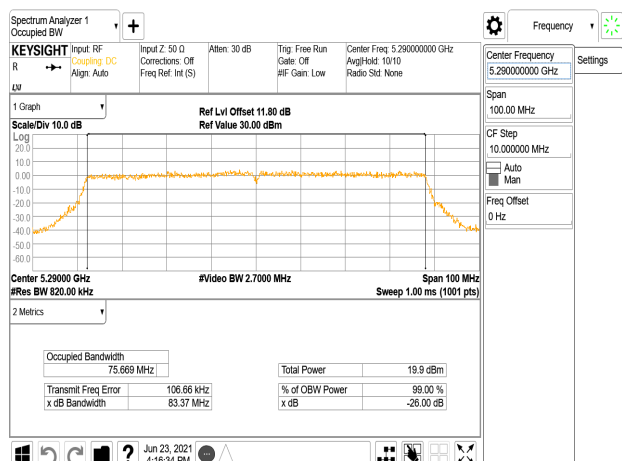
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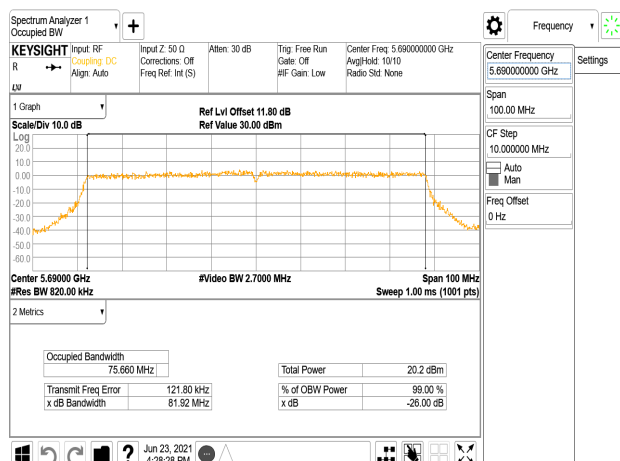
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802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz

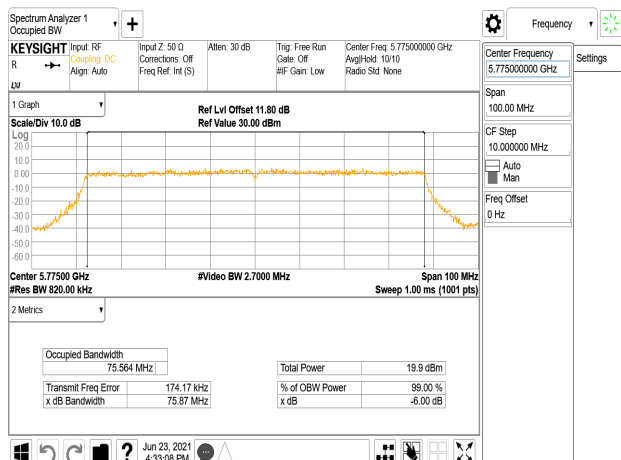


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802.11ac_80MHz_Chain0_5775MHz



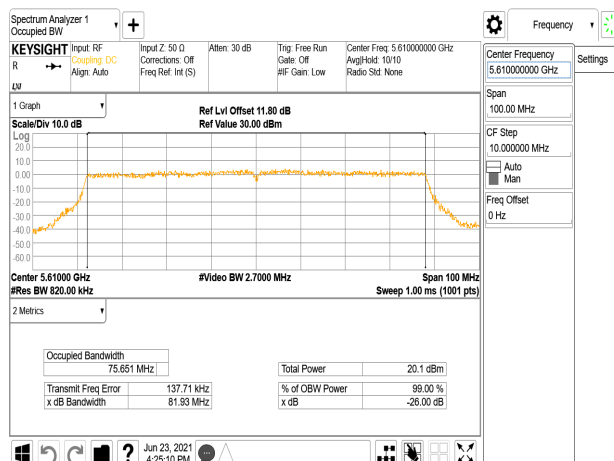
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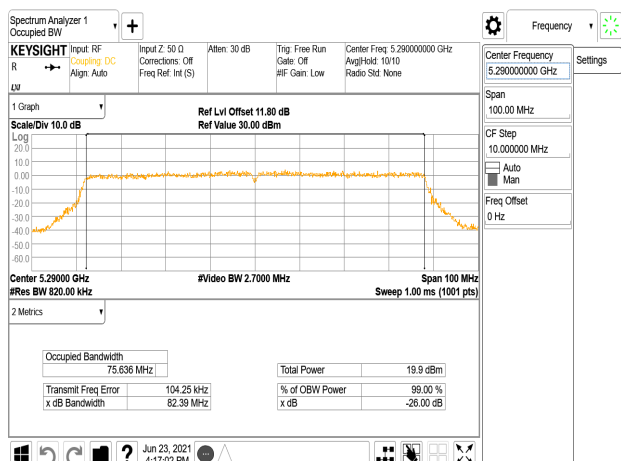
802.11ac_80MHz_Chain1_5210MHz



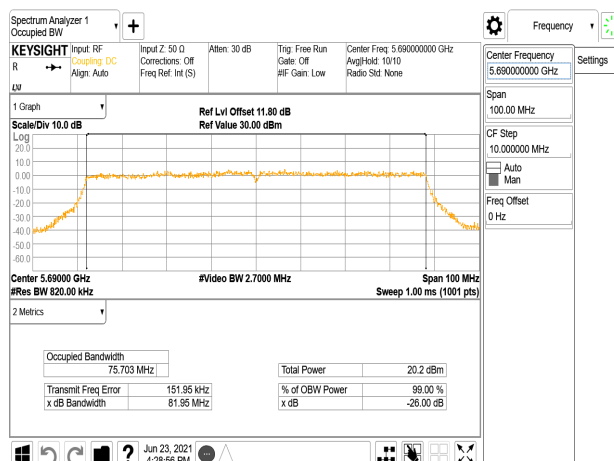
802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz

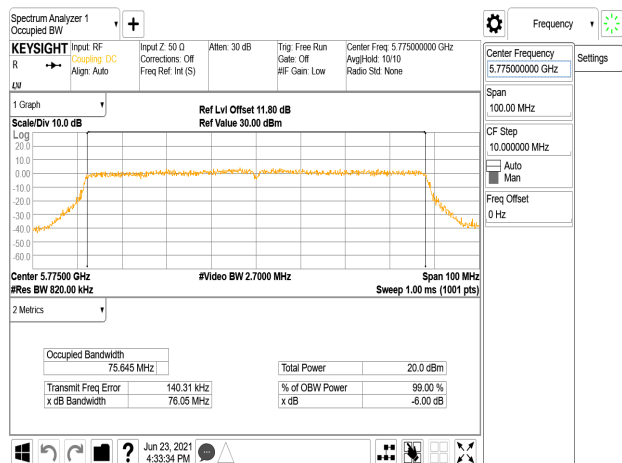


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802.11ac_80MHz_Chain1_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

Band	EUT CATEGORY		LIMIT			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1	☐	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	☐	Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	☒	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	☒	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW	6dBi
U-NII-2C	☒	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-3	☒	Other	1 Watt(30dBm)	Not required	Not required	6dBi
	☐	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

ISED

FREQUENCY BAND (MHz)	Limits of RSS-247 6.2.1~6.2.4			
	EIRP	Conducted Output Power	TPC	
5150~5250	200 mW or 10 + 10 log ₁₀ B dBm	N/A	☒	Vehicle use, at least 3dB below 30mW EIRP
5250~5350	1.0 W or 17 + 10 log ₁₀ B dBm	250 mW or 11 +10 log ₁₀ B	☐	Vehicle use, at least 3dB below 30mW EIRP or
			☒	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	1.0 W or 17 + 10 log ₁₀ B dBm	250 mW or 11 +10 log ₁₀ B	☒	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	N/A	1 W	N/A	

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 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.

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

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

$g_{j,k} = 10^{G_k/20}$ 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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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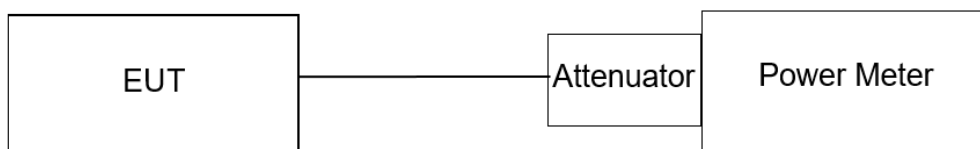
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9.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF154	11/19/2020	11/18/2021
Power Meter	Anritsu	ML2496A	1326001	08/05/2020	08/04/2021
Power Sensor	Anritsu	MA2411B	1315048	08/05/2020	08/04/2021
Power Sensor	Anritsu	MA2411B	1315049	08/05/2020	08/04/2021
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF18	11/19/2020	11/18/2021

9.4 Test Set-up



9.5 Measurement Result

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power limits are the lesser of 250 mW (23.98dBm) or 11 dBm + 10 log B and EIRP limits are the lesser of 1.0W (30dBm) or 17 + 10 log B.

1. Where B is the 26 dB emission bandwidth in megahertz for FCC compliance.
2. And B is the 99% for ISED compliance.

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9.5.1 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	15.5	14.98	31.461	23.98	PASS
44	5220	6	15	14.94	31.173	23.98	PASS
48	5240	6	15	14.91	30.958	23.98	PASS
52	5260	6	15	14.94	31.173	23.98	PASS
60	5300	6	15	14.97	31.389	23.98	PASS
64	5320	6	15	14.96	31.317	23.98	PASS
100	5500	6	15	14.87	30.674	23.98	PASS
116	5580	6	15	14.90	30.887	23.98	PASS
140	5700	6	15	14.93	31.101	23.98	PASS
149	5745	6	15	14.89	30.816	30	PASS
157	5785	6	15	14.85	30.533	30	PASS
165	5825	6	15.5	14.96	31.317	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	14.5	14.71	29.565	23.98	PASS
44	5220	6	14.5	14.74	29.770	23.98	PASS
48	5240	6	14.5	14.85	30.533	23.98	PASS
52	5260	6	14.5	14.87	30.674	23.98	PASS
60	5300	6	14	14.69	29.429	23.98	PASS
64	5320	6	14	14.75	29.838	23.98	PASS
100	5500	6	15	14.52	28.299	23.98	PASS
116	5580	6	15	14.81	30.253	23.98	PASS
140	5700	6	14	14.64	29.092	23.98	PASS
149	5745	6	14	14.57	28.627	30	PASS
157	5785	6	14.5	14.71	29.565	30	PASS
165	5825	6	14.5	14.58	28.693	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.5	7.93	6.205	23.98	PASS
44	5220	MCS0	8	8.06	6.394	23.98	PASS
48	5240	MCS0	8	8.11	6.468	23.98	PASS
52	5260	MCS0	16	15.87	38.617	23.98	PASS
60	5300	MCS0	16	15.89	38.795	23.98	PASS
64	5320	MCS0	16	15.93	39.154	23.98	PASS
100	5500	MCS0	16.5	15.90	38.884	23.98	PASS
116	5580	MCS0	16	15.86	38.528	23.98	PASS
140	5700	MCS0	16	15.92	39.064	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	14.45	27.88	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	10.52	11.28	30	PASS
149	5745	MCS0	16	15.88	38.706	30	PASS
157	5785	MCS0	16.5	15.94	39.244	30	PASS
165	5825	MCS0	16.5	15.96	39.425	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	8.5	7.85	6.092	23.98	PASS
44	5220	MCS0	8.5	7.92	6.191	23.98	PASS
48	5240	MCS0	8.5	7.95	6.234	23.98	PASS
52	5260	MCS0	15.5	15.84	38.351	23.98	PASS
60	5300	MCS0	15.5	15.83	38.263	23.98	PASS
64	5320	MCS0	15.5	15.88	38.706	23.98	PASS
100	5500	MCS0	15.5	15.59	36.205	23.98	PASS
116	5580	MCS0	15.5	15.72	37.306	23.98	PASS
140	5700	MCS0	15.5	15.84	38.351	23.98	PASS
144	5720(U-NII 2C)	MCS0	15.5	14.34	27.16	23.98	PASS
144	5720 (U-NII 3)	MCS0	15.5	10.42	11.01	30	PASS
149	5745	MCS0	15.5	15.87	38.617	30	PASS
157	5785	MCS0	15.5	15.64	36.625	30	PASS
165	5825	MCS0	15.5	15.59	36.205	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	8.5	8.02	7.94	11.08	12.818	21.31	PASS
44	5220	MCS8	8.5	8.12	8.07	11.19	13.162	21.31	PASS
48	5240	MCS8	8.5	8.15	8.01	11.18	13.118	21.31	PASS
52	5260	MCS8	16	16.5	15.11	18.96	78.676	21.79	PASS
60	5300	MCS8	16	16.43	15.22	18.97	78.796	21.79	PASS
64	5320	MCS8	16.5	16.43	15.24	18.97	78.953	21.79	PASS
100	5500	MCS8	16.5	16.64	14.52	18.81	75.965	21.62	PASS
116	5580	MCS8	16	16.71	14.7	18.92	77.952	21.62	PASS
140	5700	MCS8	15.5	16.4	13.93	18.44	69.764	21.62	PASS
144	5720(U-NII 2C)	MCS8	15.5	14.97	12.30	16.94	49.441	21.62	PASS
144	5720 (U-NII 3)	MCS8	15.5	11.04	8.38	13.01	20.019	27.92	PASS
149	5745	MCS8	16	16.58	14.53	18.77	75.386	27.92	PASS
157	5785	MCS8	16.5	16.58	14.68	18.83	76.403	27.92	PASS
165	5825	MCS8	16.5	16.57	14.51	18.76	75.146	27.92	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	10.5	10.61	11.501	23.98	PASS
46	5230	MCS0	10.5	10.90	12.295	23.98	PASS
54	5270	MCS0	14.5	14.90	30.884	23.98	PASS
62	5310	MCS0	14.5	14.92	31.026	23.98	PASS
102	5510	MCS0	15	14.95	31.241	23.98	PASS
110	5550	MCS0	14.5	14.87	30.671	23.98	PASS
134	5670	MCS0	14.5	14.90	30.884	23.98	PASS
142	5710(U-NII 2C)	MCS0	14.5	14.26	26.65	23.98	PASS
142	5710 (U-NII 3)	MCS0	14.5	6.12	4.10	30	PASS
151	5755	MCS0	15	14.99	31.530	30	PASS
159	5795	MCS0	15	14.94	31.169	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	10.5	10.17	10.393	23.98	PASS
46	5230	MCS0	10.5	10.29	10.684	23.98	PASS
54	5270	MCS0	15.5	14.73	29.698	23.98	PASS
62	5310	MCS0	15.5	14.83	30.390	23.98	PASS
102	5510	MCS0	14.5	14.81	30.250	23.98	PASS
110	5550	MCS0	14	14.84	30.460	23.98	PASS
134	5670	MCS0	14.5	14.83	30.390	23.98	PASS
142	5710(U-NII 2C)	MCS0	14	14.12	25.81	23.98	PASS
142	5710 (U-NII 3)	MCS0	14	5.89	3.88	30	PASS
151	5755	MCS0	14	14.67	29.291	30	PASS
159	5795	MCS0	14.5	14.82	30.320	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	10.5	10.45	10.18	13.50	22.411	21.31	PASS
46	5230	MCS8	10.5	10.85	10.34	13.79	23.934	21.31	PASS
54	5270	MCS8	15	15.29	14.09	17.92	61.928	21.79	PASS
62	5310	MCS8	15	15.35	14.14	17.97	62.728	21.79	PASS
102	5510	MCS8	15	15.15	14.41	17.98	62.854	21.62	PASS
110	5550	MCS8	14.5	14.95	14.63	17.98	62.814	21.62	PASS
134	5670	MCS8	14.5	14.92	14.2	17.76	59.738	21.62	PASS
142	5710(U-NII 2C)	MCS8	15	14.82	13.40	17.36	54.424	21.62	PASS
142	5710 (U-NII 3)	MCS8	15	6.69	5.18	9.19	8.293	27.92	PASS
151	5755	MCS8	15	15.52	13.67	17.88	61.381	27.92	PASS
159	5795	MCS8	15.5	15.68	13.61	17.95	62.442	27.92	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	11	10.82	12.065	23.98	PASS
58	5290	MCS0	14	13.97	24.918	23.98	PASS
106	5530	MCS0	14	13.90	24.520	23.98	PASS
122	5610	MCS0	14	13.91	24.576	23.98	PASS
138	5690(U-NII 2C)	MCS0	14	13.60	22.89	23.98	PASS
138	5690 (U-NII 3)	MCS0	14	2.55	1.80	30	PASS
155	5775	MCS0	14	13.96	24.861	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	11	10.76	11.899	23.98	PASS
58	5290	MCS0	14	13.78	23.852	23.98	PASS
106	5530	MCS0	14.5	13.87	24.351	23.98	PASS
122	5610	MCS0	14.5	13.89	24.463	23.98	PASS
138	5690(U-NII 2C)	MCS0	14	13.34	21.58	23.98	PASS
138	5690 (U-NII 3)	MCS0	14	2.64	1.84	30	PASS
155	5775	MCS0	14	13.74	23.633	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	11	10.7	10.63	13.99	25.065	21.31	PASS
58	5290	MCS0	14	13.86	13.38	16.95	49.569	21.79	PASS
106	5530	MCS0	14	13.81	13.37	16.92	49.216	21.62	PASS
122	5610	MCS0	14	13.73	13.33	16.86	48.530	21.62	PASS
138	5690(U-NII 2C)	MCS0	14	13.50	13.10	16.63	46.062	21.62	PASS
138	5690 (U-NII 3)	MCS0	14	2.45	2.39	5.75	3.763	27.92	PASS
155	5775	MCS0	14	13.75	13.36	16.88	48.807	27.92	PASS

9.5.2 ISED EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.98	5.88	20.86	121.836	22.18	PASS
44	5220	14.94	5.88	20.82	120.719	22.18	PASS
48	5240	14.91	5.88	20.79	119.888	22.18	PASS
52	5260	14.94	4.73	19.67	92.635	29.18	PASS
60	5300	14.97	4.73	19.70	93.277	29.19	PASS
64	5320	14.96	4.73	19.69	93.062	29.18	PASS
100	5500	14.87	4.80	19.67	92.635	29.18	PASS
116	5580	14.90	4.80	19.70	93.277	29.19	PASS
140	5700	14.93	4.80	19.73	93.923	29.18	PASS

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802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.71	5.430	20.14	103.222	23.01	PASS
44	5220	14.74	5.430	20.17	103.938	23.01	PASS
48	5240	14.85	5.430	20.28	106.604	23.01	PASS
52	5260	14.87	5.610	20.48	111.628	30	PASS
60	5300	14.69	5.610	20.30	107.096	30	PASS
64	5320	14.75	5.610	20.36	108.586	30	PASS
100	5500	14.52	5.860	20.38	109.087	30	PASS
116	5580	14.81	5.860	20.67	116.620	30	PASS
140	5700	14.64	5.860	20.50	112.143	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.93	5.88	13.81	24.031	22.47	PASS
44	5220	8.06	5.88	13.94	24.761	22.47	PASS
48	5240	8.11	5.88	13.99	25.048	22.46	PASS
52	5260	15.87	4.73	20.60	114.756	29.48	PASS
60	5300	15.89	4.73	20.62	115.285	29.48	PASS
64	5320	15.93	4.73	20.66	116.352	29.48	PASS
100	5500	15.90	4.80	20.70	117.429	29.48	PASS
116	5580	15.86	4.80	20.66	116.352	29.49	PASS
140	5700	15.92	4.80	20.72	117.971	29.49	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.85	5.430	13.28	21.270	23.01	PASS
44	5220	7.92	5.430	13.35	21.616	23.01	PASS
48	5240	7.95	5.430	13.38	21.766	23.01	PASS
52	5260	15.84	5.610	21.45	139.564	30	PASS
60	5300	15.83	5.610	21.44	139.243	30	PASS
64	5320	15.88	5.610	21.49	140.856	30	PASS
100	5500	15.59	5.860	21.45	139.564	30	PASS
116	5580	15.72	5.860	21.58	143.805	30	PASS
140	5700	15.84	5.860	21.70	147.834	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.08	8.67	19.75	94.367	22.47	PASS
44	5220	11.19	8.67	19.86	96.897	22.47	PASS
48	5240	11.18	8.67	19.85	96.574	22.46	PASS
52	5260	18.96	8.19	27.15	518.611	29.48	PASS
60	5300	18.97	8.19	27.16	519.403	29.48	PASS
64	5320	18.97	8.19	27.16	520.436	29.48	PASS
100	5500	18.81	8.36	27.17	520.731	29.48	PASS
116	5580	18.92	8.36	27.28	534.355	29.49	PASS
140	5700	18.44	8.36	26.80	478.225	29.49	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.61	5.88	16.49	44.538	23.01	PASS
46	5230	10.90	5.88	16.78	47.613	23.01	PASS
54	5270	14.90	4.73	19.63	91.776	30	PASS
62	5310	14.92	4.73	19.65	92.200	30	PASS
102	5510	14.95	4.80	19.75	94.347	30	PASS
110	5550	14.87	4.80	19.67	92.625	30	PASS
134	5670	14.90	4.80	19.70	93.267	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.17	5.430	15.60	36.285	23.01	PASS
46	5230	10.29	5.430	15.72	37.302	23.01	PASS
54	5270	14.73	5.610	20.34	108.076	30	PASS
62	5310	14.83	5.610	20.44	110.593	30	PASS
102	5510	14.81	5.860	20.67	116.608	30	PASS
110	5550	14.84	5.860	20.70	117.416	30	PASS
134	5670	14.83	5.860	20.69	117.146	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.50	8.67	22.17	164.994	23.01	PASS
46	5230	13.79	8.67	22.46	176.200	23.01	PASS
54	5270	17.92	8.19	26.11	408.216	30	PASS
62	5310	17.97	8.19	26.16	413.484	30	PASS
102	5510	17.98	8.36	26.34	430.857	30	PASS
110	5550	17.98	8.36	26.34	430.580	30	PASS
134	5670	17.76	8.36	26.12	409.495	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.82	5.88	16.70	46.722	23.01	PASS
58	5290	13.97	4.73	18.70	74.049	30	PASS
106	5530	13.90	4.80	18.70	74.049	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.76	5.430	16.19	41.545	23.01	PASS
58	5290	13.78	5.610	19.39	86.799	30	PASS
106	5530	13.87	5.860	19.73	93.868	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	13.99	8.67	22.66	184.528	23.01	PASS
58	5290	16.95	8.19	25.14	326.746	30	PASS
106	5530	16.92	8.36	25.28	337.368	30	PASS

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9.5.3 Conducted output power (ISED)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.94	31.173	23.18	PASS
60	5300	14.97	31.389	23.19	PASS
64	5320	14.96	31.317	23.18	PASS
100	5500	14.87	30.674	23.18	PASS
116	5580	14.90	30.887	23.19	PASS
140	5700	14.93	31.101	23.18	PASS
149	5745	14.89	30.816	30	PASS
157	5785	14.85	30.533	30	PASS
165	5825	14.96	31.317	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.87	30.674	23.18	PASS
60	5300	14.69	29.429	23.19	PASS
64	5320	14.75	29.838	23.18	PASS
100	5500	14.52	28.299	23.18	PASS
116	5580	14.81	30.253	23.19	PASS
140	5700	14.64	29.092	23.18	PASS
149	5745	14.57	28.627	30	PASS
157	5785	14.71	29.565	30	PASS
165	5825	14.58	28.693	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.87	38.617	23.48	PASS
60	5300	15.89	38.795	23.48	PASS
64	5320	15.93	39.154	23.48	PASS
100	5500	15.90	38.884	23.48	PASS
116	5580	15.86	38.528	23.49	PASS
140	5700	15.92	39.064	23.49	PASS
144	5720(U-NII 2C)	14.45	27.876	22.42	PASS
144	5720 (U-NII 3)	10.52	11.278	30	PASS
149	5745	15.88	38.706	30	PASS
157	5785	15.94	39.244	30	PASS
165	5825	15.96	39.425	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.84	38.351	23.48	PASS
60	5300	15.83	38.263	23.49	PASS
64	5320	15.88	38.706	23.48	PASS
100	5500	15.59	36.205	23.49	PASS
116	5580	15.72	37.306	23.49	PASS
140	5700	15.84	38.351	23.5	PASS
144	5720(U-NII 2C)	14.34	27.161	22.42	PASS
144	5720 (U-NII 3)	10.42	11.013	30	PASS
149	5745	15.87	38.617	30	PASS
157	5785	15.64	36.625	30	PASS
165	5825	15.59	36.205	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	16.5	15.11	18.96	78.676	23.48	PASS
60	5300	16.43	15.22	18.97	78.796	23.48	PASS
64	5320	16.43	15.24	18.97	78.953	23.48	PASS
100	5500	16.64	14.52	18.81	75.965	23.48	PASS
116	5580	16.71	14.7	18.92	77.952	23.49	PASS
140	5700	16.4	13.93	18.44	69.764	23.49	PASS
144	5720(U-NII 2C)	14.9745	12.3018	16.94	49.441	22.42	PASS
144	5720 (U-NII 3)	11.0446	8.38137	13.01	20.019	27.92	PASS
149	5745	16.58	14.53	18.77	75.386	27.92	PASS
157	5785	16.58	14.68	18.83	76.403	27.92	PASS
165	5825	16.57	14.51	18.76	75.146	27.92	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	14.90	30.884	23.98	PASS
62	5310	14.92	31.026	23.98	PASS
102	5510	14.95	31.241	23.98	PASS
110	5550	14.87	30.671	23.98	PASS
134	5670	14.90	30.884	23.98	PASS
142	5710(U-NII 2C)	14.26	26.645	23.98	PASS
142	5710 (U-NII 3)	6.12	4.096	30	PASS
151	5755	14.99	31.530	30	PASS
159	5795	14.94	31.169	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	14.73	29.698	23.98	PASS
62	5310	14.83	30.390	23.98	PASS
102	5510	14.81	30.250	23.98	PASS
110	5550	14.84	30.460	23.98	PASS
134	5670	14.83	30.390	23.98	PASS
142	5710(U-NII 2C)	14.12	25.813	23.98	PASS
142	5710 (U-NII 3)	5.89	3.885	30	PASS
151	5755	14.67	29.291	30	PASS
159	5795	14.82	30.320	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	15.29	14.09	17.92	61.928	23.98	PASS
62	5310	15.35	14.14	17.97	62.728	23.98	PASS
102	5510	15.15	14.41	17.98	62.854	23.98	PASS
110	5550	14.95	14.63	17.98	62.814	23.98	PASS
134	5670	14.92	14.2	17.76	59.738	23.98	PASS
142	5710(U-NII 2C)	14.8189	13.4011	17.36	54.424	23.98	PASS
142	5710 (U-NII 3)	6.68673	5.17656	9.19	8.293	27.92	PASS
151	5755	15.52	13.67	17.88	61.381	27.92	PASS
159	5795	15.68	13.61	17.95	62.442	27.92	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	13.97	24.918	23.98	PASS
106	5530	13.90	24.520	23.98	PASS
122	5610	13.91	24.576	23.98	PASS
138	5690(U-NII 2C)	13.60	22.891	23.98	PASS
138	5690 (U-NII 3)	2.55	1.799	30	PASS
155	5775	13.96	24.861	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	13.78	23.852	23.98	PASS
106	5530	13.87	24.351	23.98	PASS
122	5610	13.89	24.463	23.98	PASS
138	5690(U-NII 2C)	13.34	21.580	23.98	PASS
138	5690 (U-NII 3)	2.64	1.836	30	PASS
155	5775	13.74	23.633	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	13.86	13.38	16.95	49.569	23.98	PASS
106	5530	13.81	13.37	16.92	49.216	23.98	PASS
122	5610	13.73	13.33	16.86	48.530	23.98	PASS
138	5690(U-NII 2C)	13.5015	13.0954	16.63	46.062	23.98	PASS
138	5690 (U-NII 3)	2.45478	2.39398	5.75	3.763	27.92	PASS
155	5775	13.75	13.36	16.88	48.807	27.92	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.

Note:

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 (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, 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=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. User 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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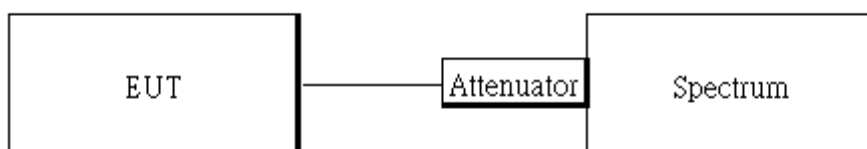
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10.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF154	11/19/2020	11/18/2021

10.4 Test Set-up



10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.19	-	0.00	4.19		11.00 dBm/MHz	-6.81
5220	4.28	-	0.00	4.28		11.00 dBm/MHz	-6.72
5240	4.21	-	0.00	4.21		11.00 dBm/MHz	-6.79
5260	5.06	-	0.00	5.06		11.00 dBm/MHz	-5.94
5300	4.72	-	0.00	4.72		11.00 dBm/MHz	-6.28
5320	5.01	-	0.00	5.01		11.00 dBm/MHz	-5.99
5500	4.62	-	0.00	4.62		11.00 dBm/MHz	-6.38
5580	5.15	-	0.00	5.15		11.00 dBm/MHz	-5.85
5700	5.35	-	0.00	5.35		11.00 dBm/MHz	-5.65
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	0.69	-	0.00	2.22	2.91	30.00 dBm/500kHz	-27.10
5785	0.26	-	0.00	2.22	2.48	30.00 dBm/500kHz	-27.52
5825	0.28	-	0.00	2.22	2.50	30.00 dBm/500kHz	-27.50

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POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-2.13	-2.18	0.00	0.86		8.33 dBm/MHz	-7.47
5220	-2.74	-2.45	0.00	0.42		8.33 dBm/MHz	-7.91
5240	-2.65	-2.25	0.00	0.56		8.33 dBm/MHz	-7.77
5260	5.37	5.24	0.00	8.31		8.81 dBm/MHz	-0.50
5300	5.20	5.17	0.00	8.19		8.81 dBm/MHz	-0.62
5320	5.87	5.70	0.00	8.80		8.81 dBm/MHz	-0.01
5500	5.28	5.40	0.00	8.35		8.64 dBm/MHz	-0.29
5580	5.54	5.58	0.00	8.57		8.64 dBm/MHz	-0.07
5700	5.36	5.69	0.00	8.54		8.64 dBm/MHz	-0.10
5720 (U-NII 2C)	5.44	5.48	0.00	8.47		8.64 dBm/MHz	-0.17
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500k Hz)	Limit	Margin (dB)
5720 (U-NII 3)	-0.31	-0.99	0.00	2.22	4.59	27.92 dBm/500kHz	-23.33
5745	1.87	2.15	0.00	2.22	7.24	27.92 dBm/500kHz	-20.68
5785	2.52	2.70	0.00	2.22	7.84	27.92 dBm/500kHz	-20.08
5825	1.99	1.76	0.00	2.22	7.11	27.92 dBm/500kHz	-20.81

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-2.90	-2.78	0.18	0.35		8.33 dBm/MHz	-7.98
5230	-2.91	-2.76	0.18	0.36		8.33 dBm/MHz	-7.97
5270	1.94	2.05	0.18	5.18		8.81 dBm/MHz	-3.63
5310	1.77	1.58	0.18	4.87		8.81 dBm/MHz	-3.94
5510	2.30	2.60	0.18	5.64		8.64 dBm/MHz	-3.00
5550	2.69	2.52	0.18	5.80		8.64 dBm/MHz	-2.84
5670	2.82	2.68	0.18	5.94		8.64 dBm/MHz	-2.70
5710 (U-NII 2C)	3.08	2.87	0.18	6.17		8.64 dBm/MHz	-2.47
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500k Hz)	Limit	Margin (dB)
5710 (U-NII 3)	-3.23	-3.98	0.18	2.22	1.82	27.92 dBm/500kHz	-26.10
5755	-2.37	-2.14	0.18	2.22	3.16	27.92 dBm/500kHz	-24.76
5795	-2.07	-2.45	0.18	2.22	3.15	27.92 dBm/500kHz	-24.77

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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)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-6.03	-5.97	0.32	-2.67		8.33 dBm/MHz	-11.00
5290	-2.62	-2.66	0.32	0.69		8.81 dBm/MHz	-8.12
5530	-2.40	-2.60	0.32	0.83		8.64 dBm/MHz	-7.81
5610	-2.29	-2.49	0.32	0.94		8.64 dBm/MHz	-7.70
5690 (U-NII 2C)	-2.19	-2.46	0.32	1.01		8.64 dBm/MHz	-7.63
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-8.58	-8.24	0.32	2.22	-2.86	27.92 dBm/500kHz	-30.78
5775	-7.65	-7.68	0.32	2.22	-2.12	27.92 dBm/500kHz	-30.04

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	4.19	5.43	9.62	10	-0.38
5220	4.28	5.43	9.71	10	-0.29
5240	4.21	5.43	9.64	10	-0.36

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.86	8.67	9.53	10	-0.47
5220	0.42	8.67	9.09	10	-0.91
5240	0.56	8.67	9.23	10	-0.77

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	0.35	8.67	9.02	10	-0.98
5230	0.36	8.67	9.03	10	-0.97

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EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-2.67	8.67	6.00	10	-4.00

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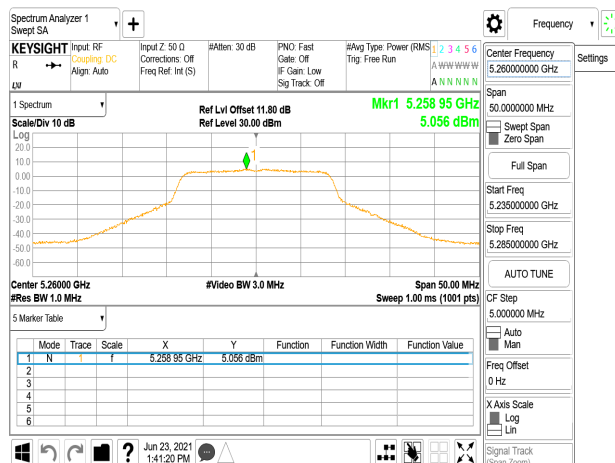
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802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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802.11a_20MHz_Chain0_5500MHz



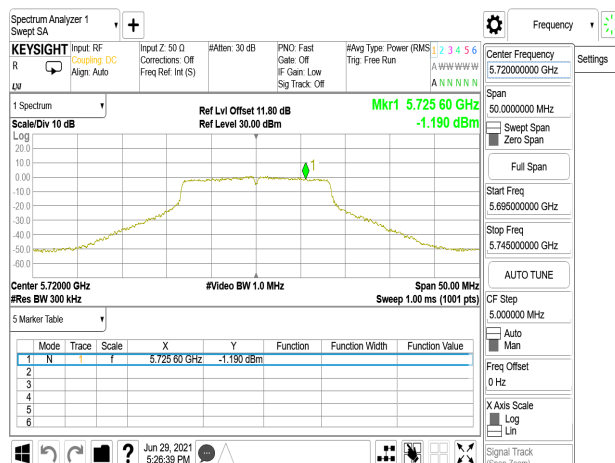
802.11a_20MHz_Chain0_5720MHz_UNII 2C



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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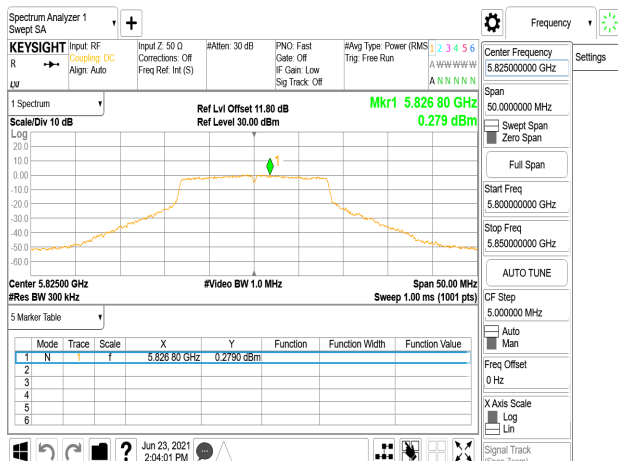
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_test_Chain0



802.11a_20MHz_Chain0_5825MHz



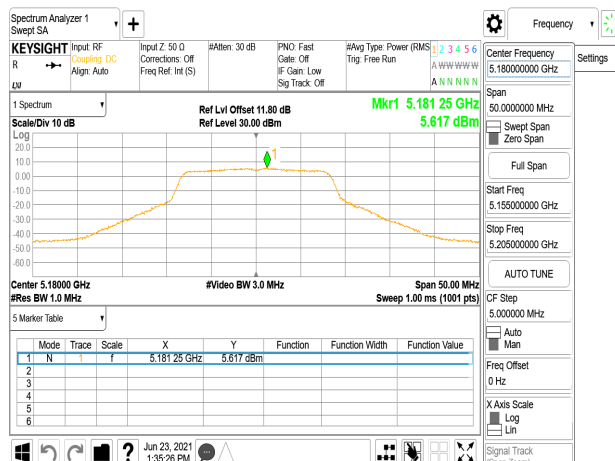
802.11a_20MHz_test_Chain0



802.11a_20MHz_test_Chain0



802.11a_20MHz_test_備



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802.11a_20MHz_test_備



802.11n_20MHz_Chain0_5220MHz



802.11a_20MHz_test_備



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



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802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5320MHz



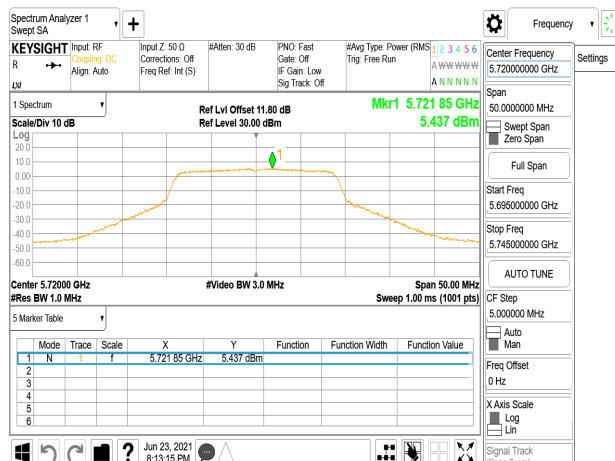
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



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802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz



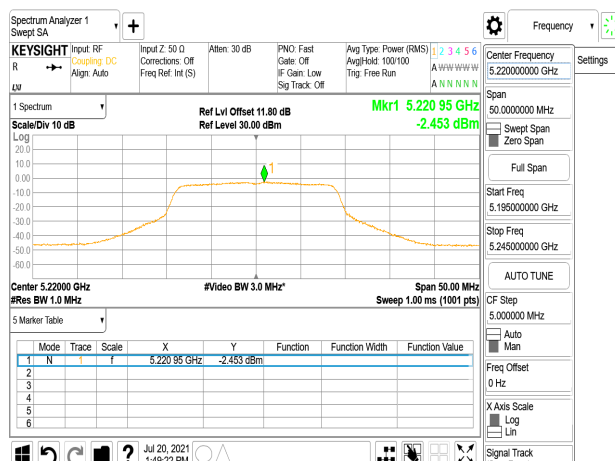
802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



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802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5580MHz



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802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5745MHz



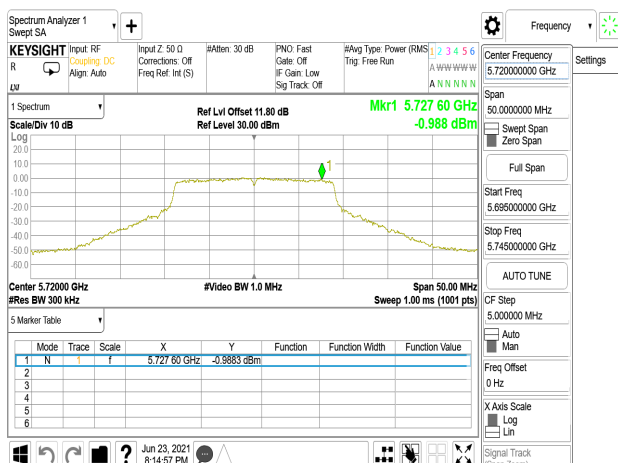
802.11n_20MHz_Chain1_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5720MHz_UNII 3



802.11n_20MHz_Chain1_5825MHz



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