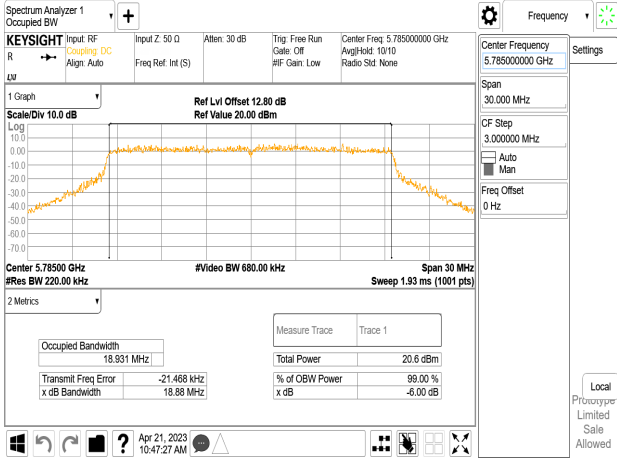
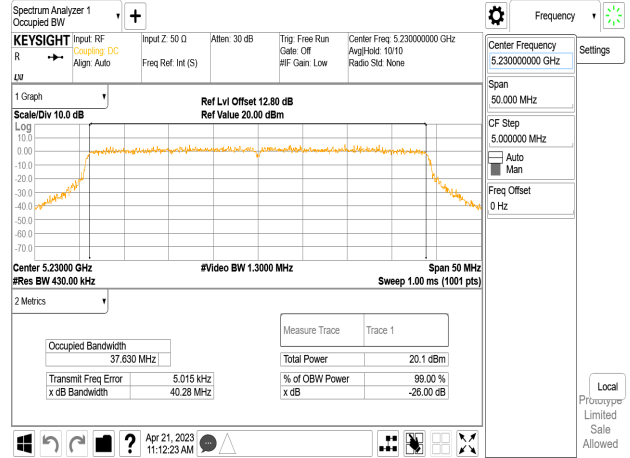


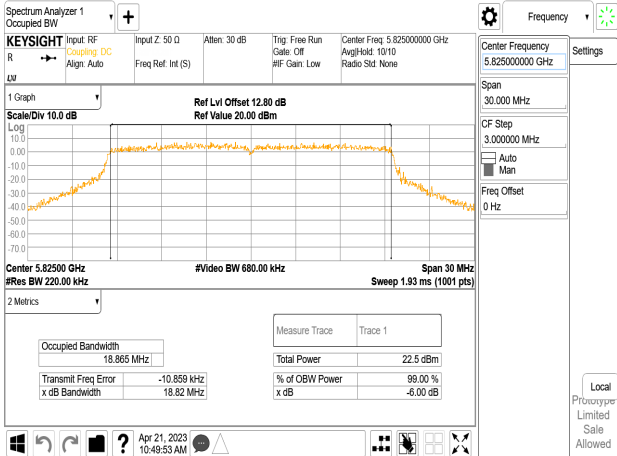
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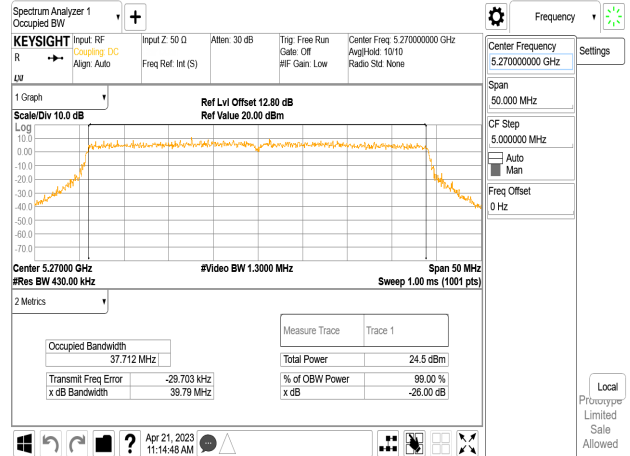
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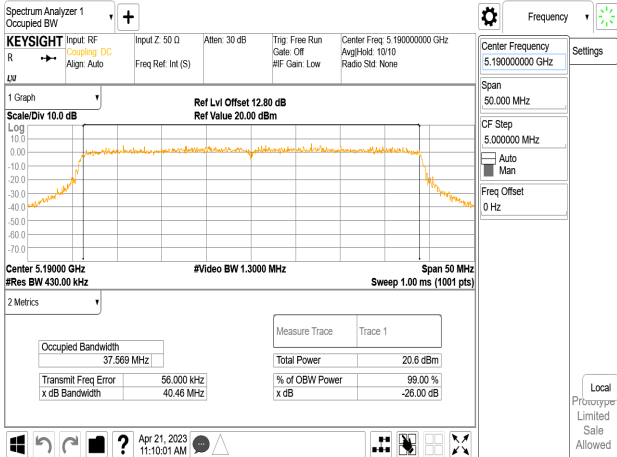
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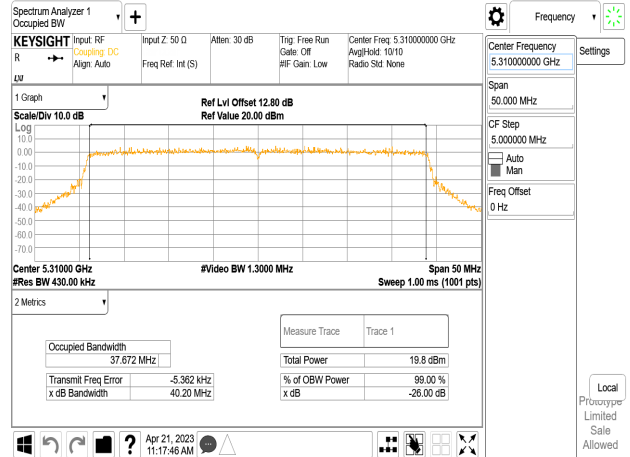
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802.11ax\_40MHz\_Chain0\_5190MHz



802.11ax\_40MHz\_Chain0\_5310MHz

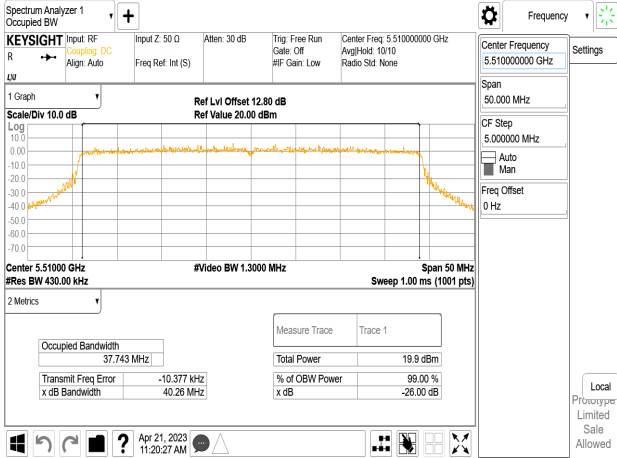


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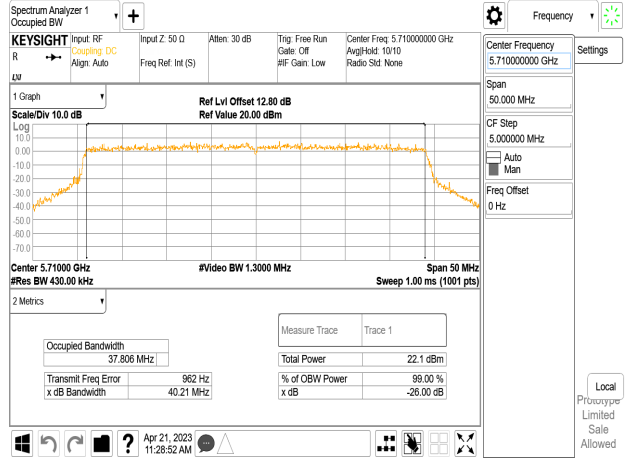
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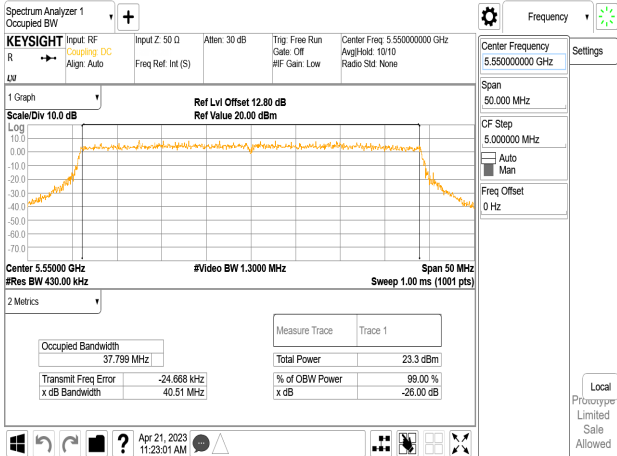
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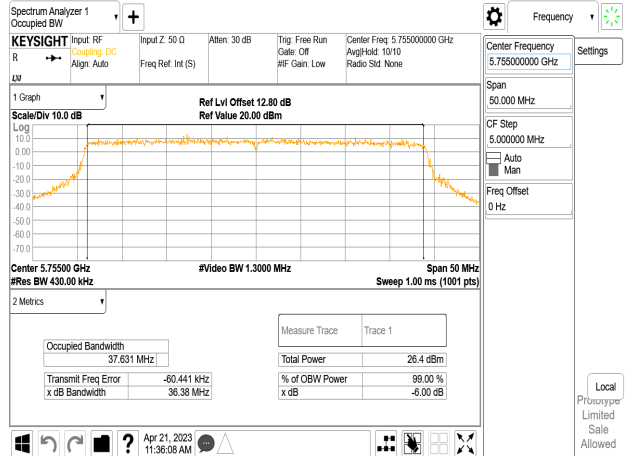
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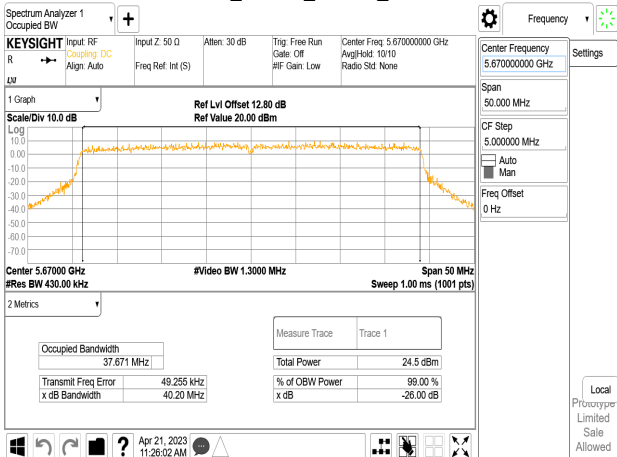
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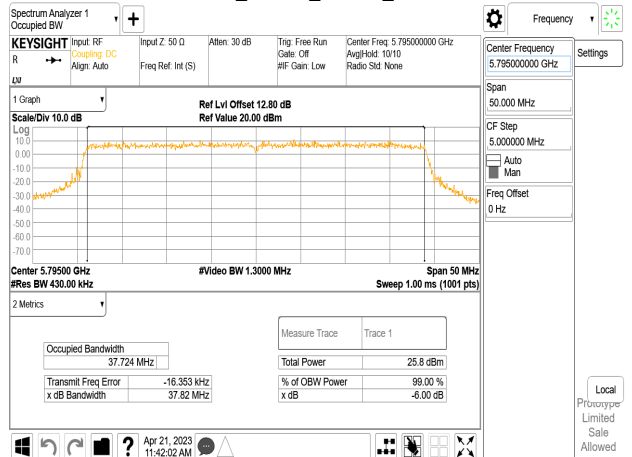
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802.11ax\_40MHz\_Chain0\_5670MHz



802.11ax\_40MHz\_Chain0\_5795MHz

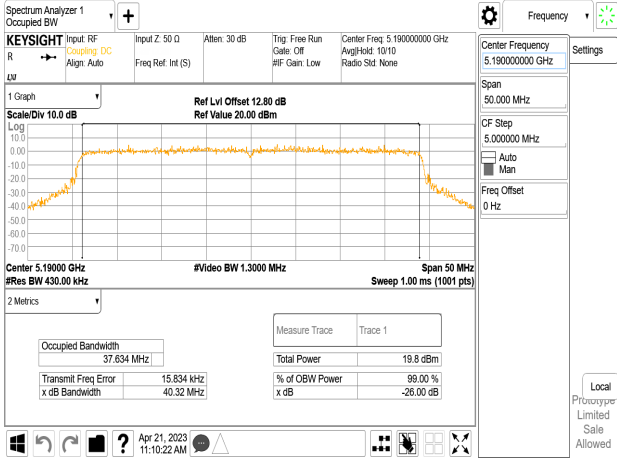


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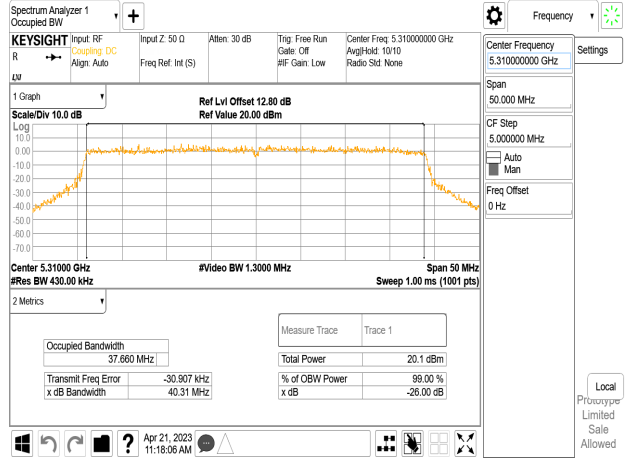
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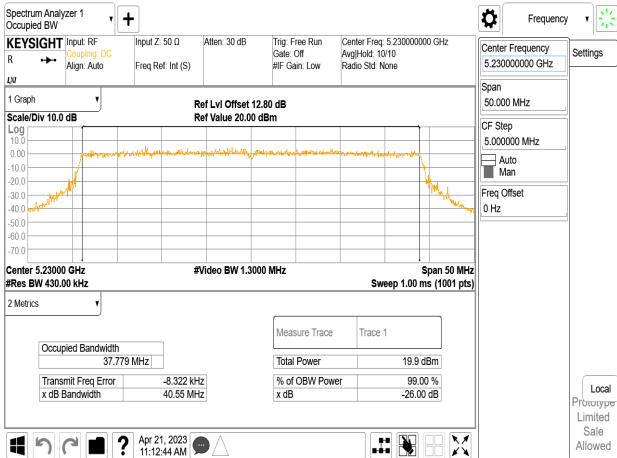
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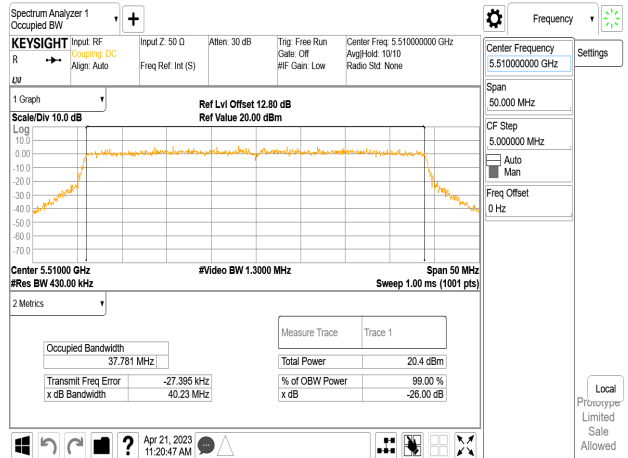
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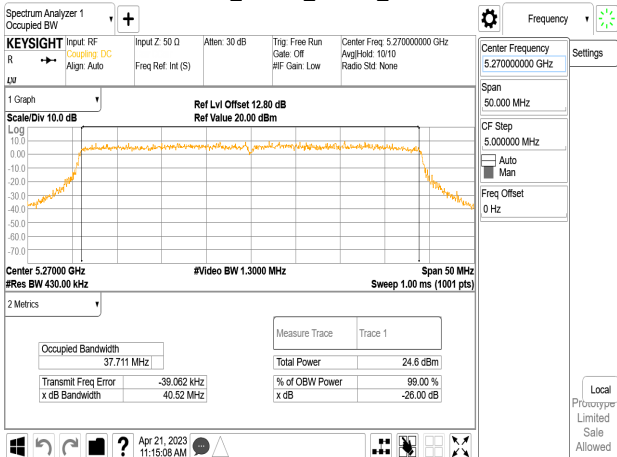
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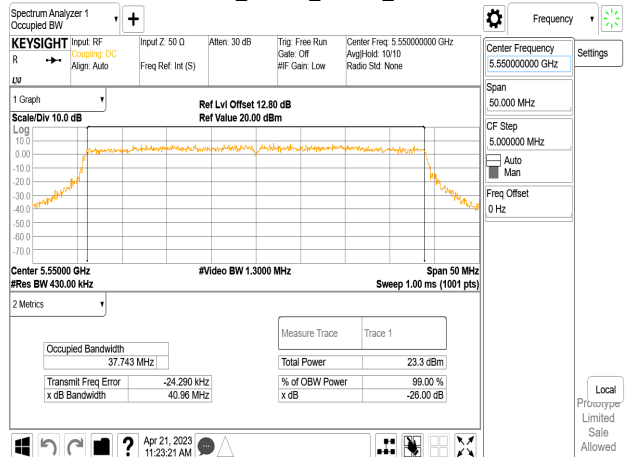
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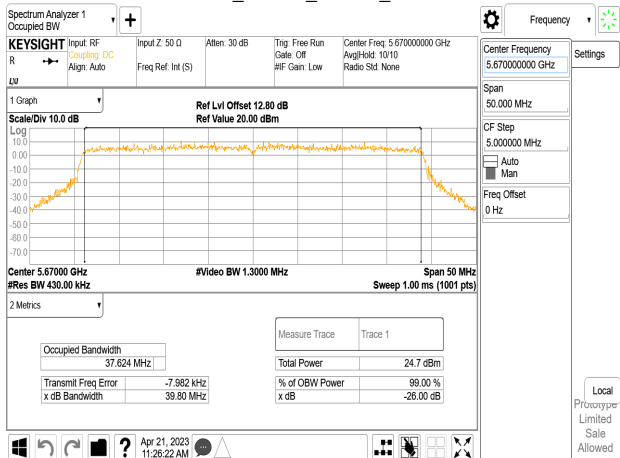


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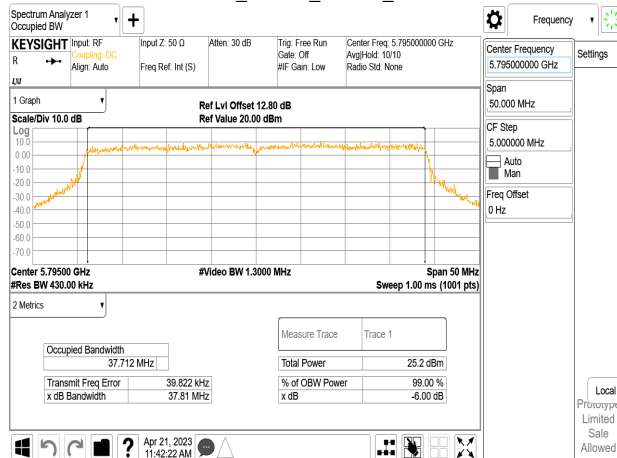
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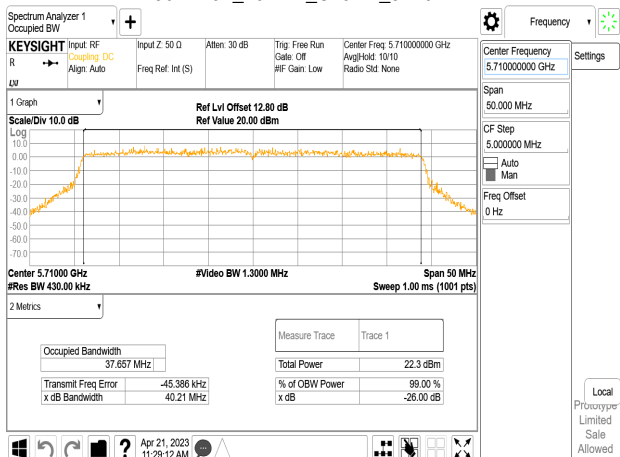
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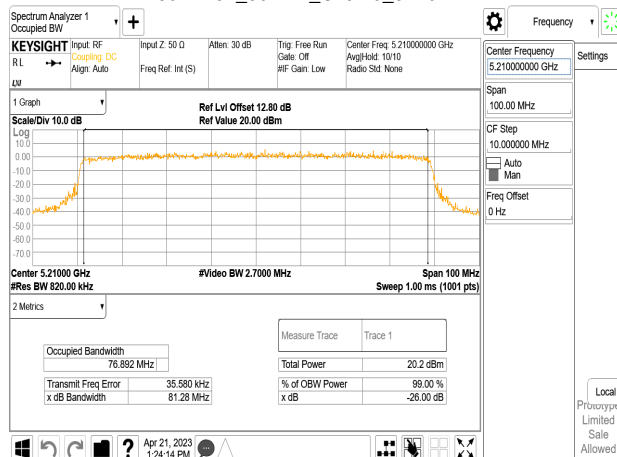
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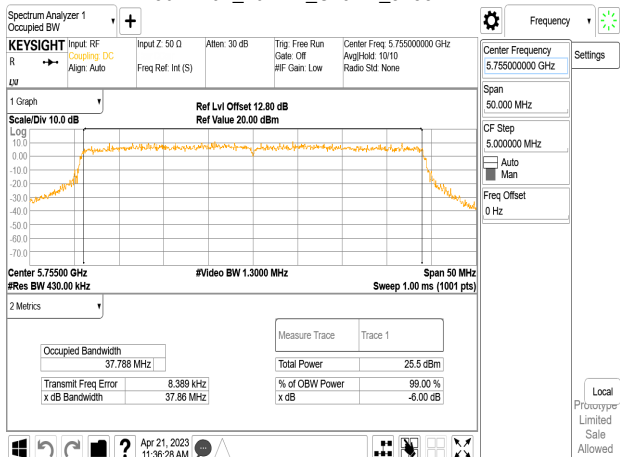
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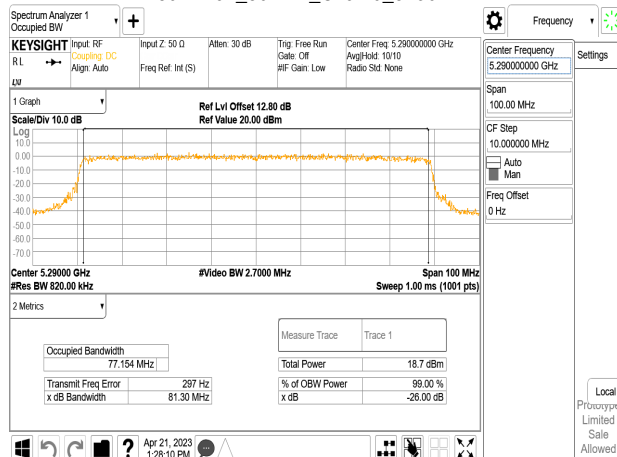
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802.11ax\_40MHz\_Chain1\_5755MHz



802.11ax\_80MHz\_Chain0\_5290MHz

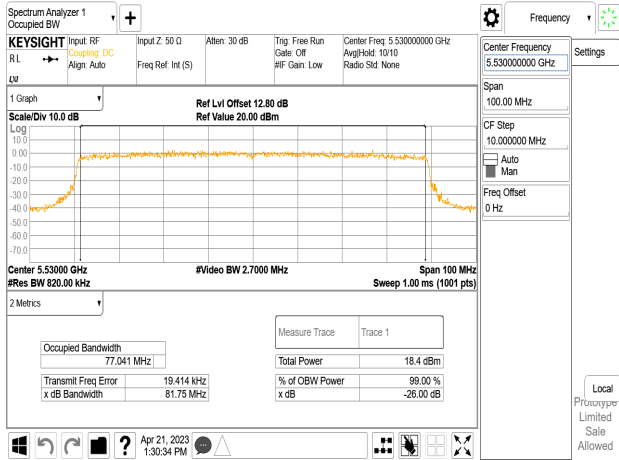


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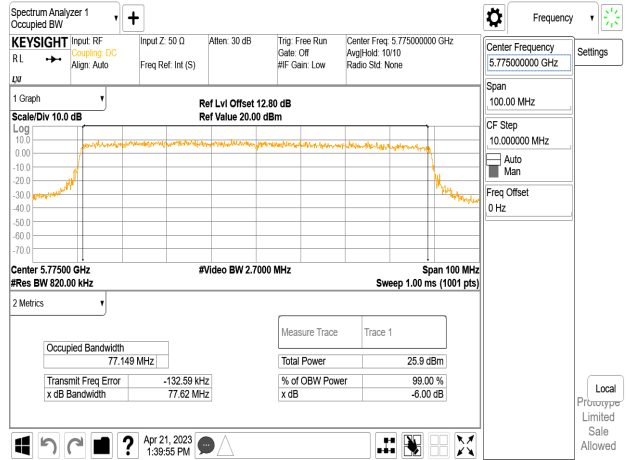
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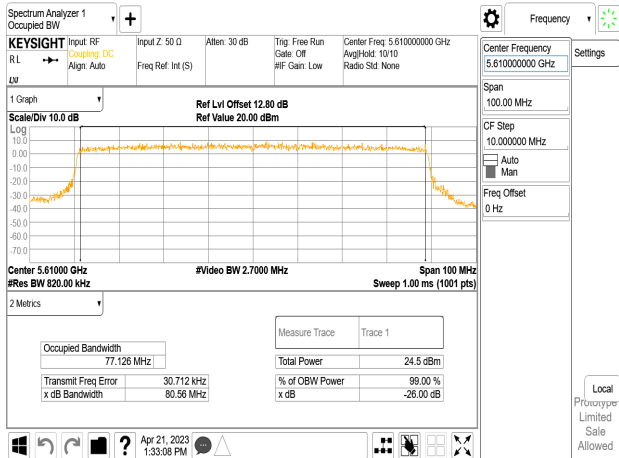
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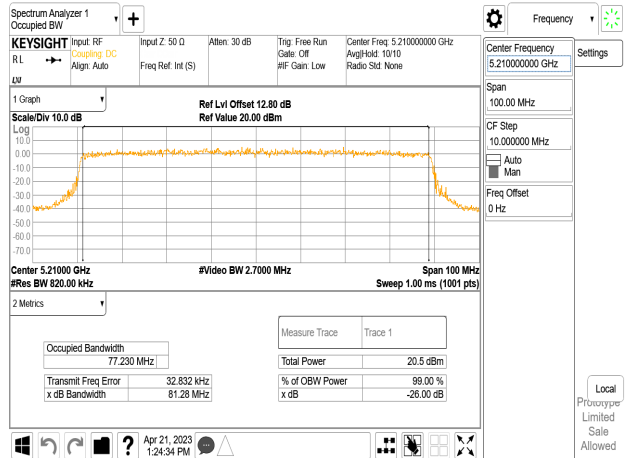
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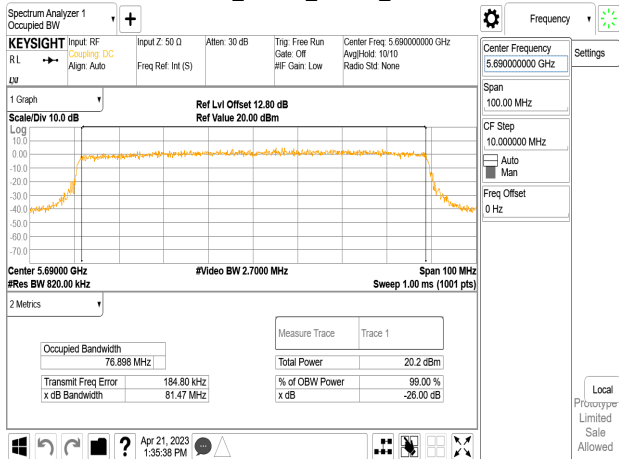
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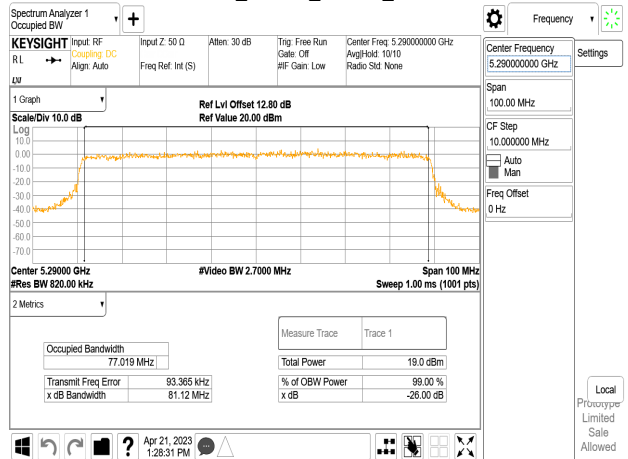
802.11ax\_80MHz\_Chain1\_5210MHz



802.11ax\_80MHz\_Chain0\_5690MHz



802.11ax\_80MHz\_Chain1\_5290MHz

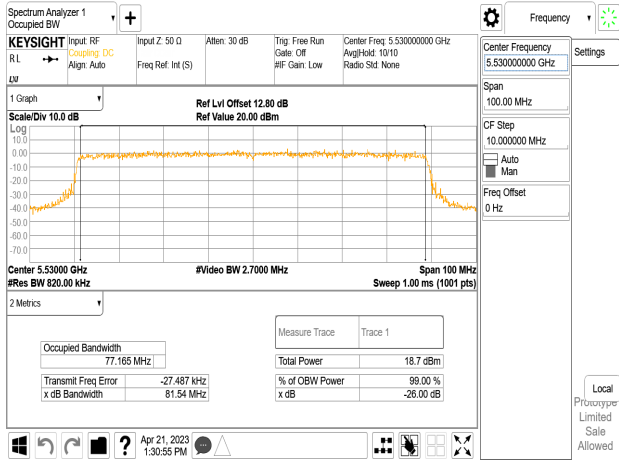


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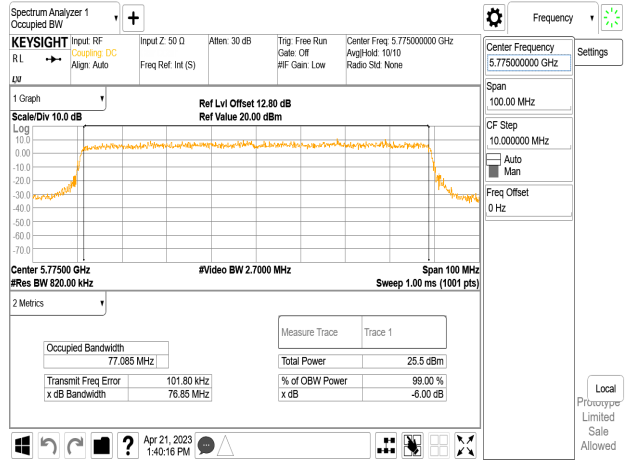
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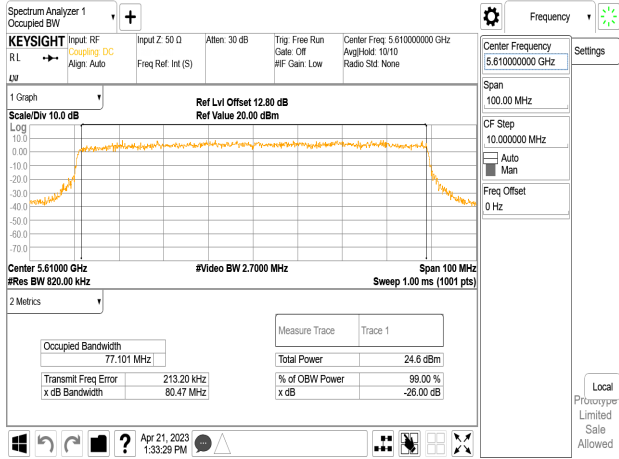
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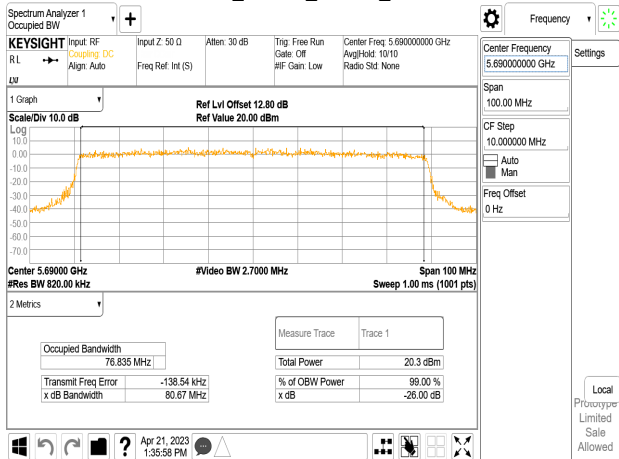
802.11ax\_80MHz\_Chain1\_5775MHz



802.11ax\_80MHz\_Chain1\_5610MHz



802.11ax\_80MHz\_Chain1\_5690MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### 9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 9.1.2 Output Power

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			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
	V	Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
		Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required

1. 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.

2. For the 10 log B, B is the 26 dB emission bandwidth.

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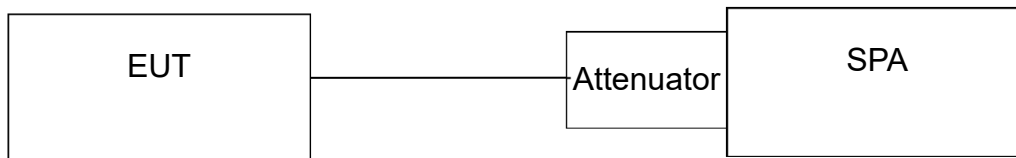
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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	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
		Outdoor Fixed with EIRP>200mW	$-13$ dBW/MHz for $0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$ $-42$ dBW/MHz for $\theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	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	V	All	N/A	1 W	N/A

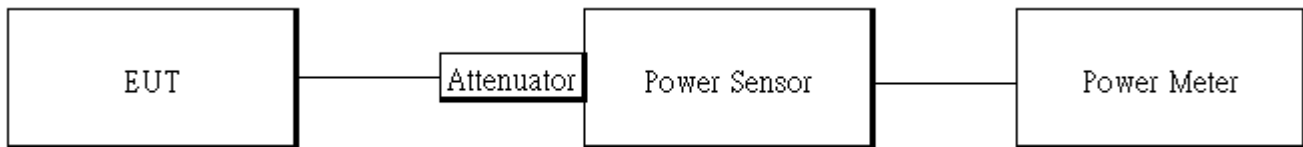
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.  
 2. For the  $10 \log B$ , B is the 99% emission bandwidth.

## 9.2 Test Setup

### 9.2.1 Duty Cycle



### 9.2.2 Output Power



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### 9.3 Measurement Procedure

#### 9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

#### 9.3.2 Output Power Measurements

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.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

**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.

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

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<sub>j,k</sub> = / 20 10G<sub>k</sub> if the kth antenna is being fed by spatial stream j, or zero if it is not;

G<sub>k</sub> 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.

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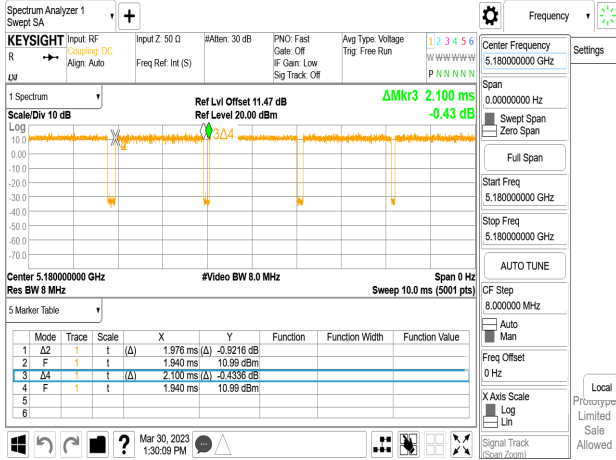
### 9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	94.10	0.26	0.51	1.00
802.11n_20	80.41	0.95	0.18	1.00
802.11ac_20	80.63	0.94	0.18	1.00
802.11n_40	80.32	0.95	0.18	1.00
802.11ac_40	80.32	0.95	0.18	1.00
802.11ac_80	80.20	0.96	0.18	1.00
802.11ax_20	80.48	0.94	0.18	1.00
802.11ax_40	80.51	0.94	0.18	1.00
802.11ax_80	80.38	0.95	0.18	1.00

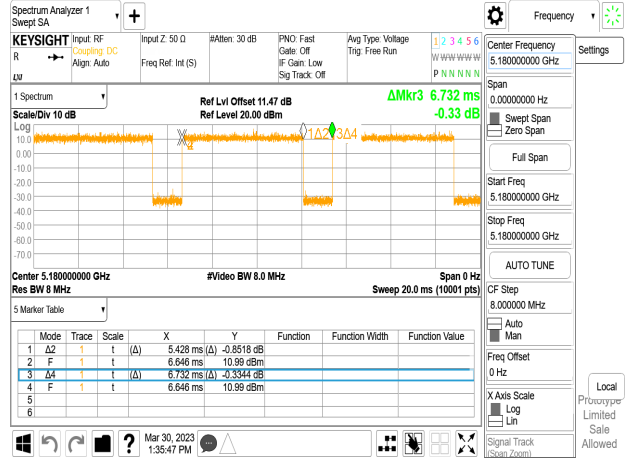
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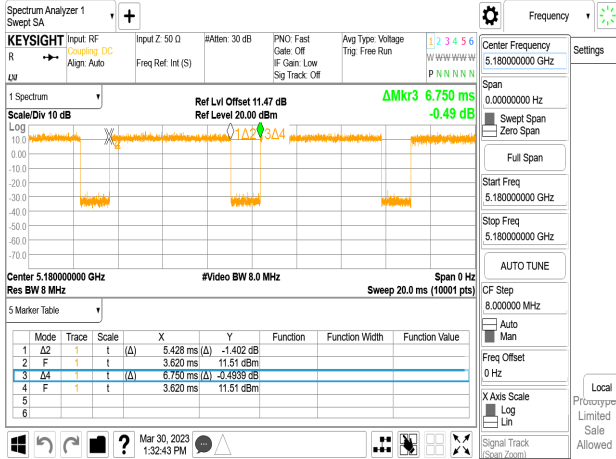
802.11a\_20MHz\_Chain0\_5180MHz



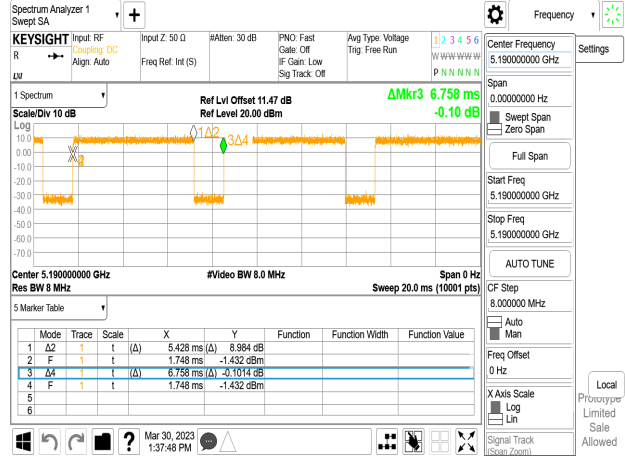
802.11ac\_20MHz\_Chain0\_5180MHz



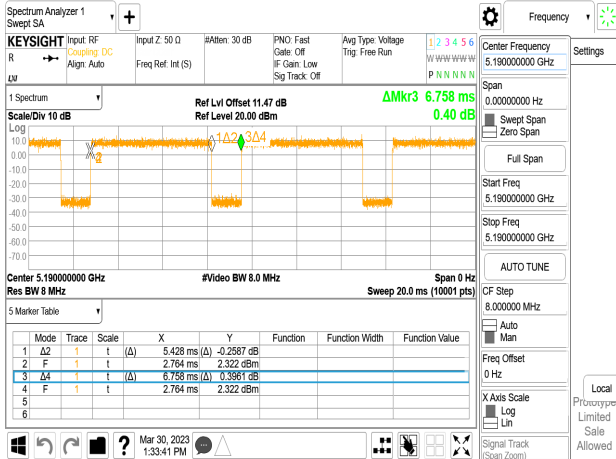
802.11n\_20MHz\_Chain0\_5180MHz



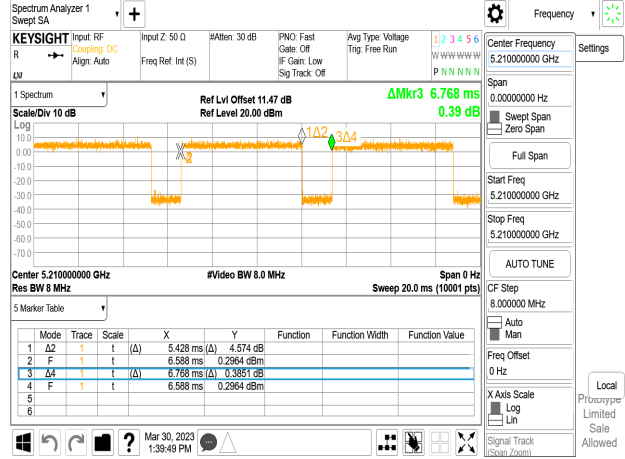
802.11ac\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain0\_5190MHz



802.11ac\_80MHz\_Chain0\_5210MHz

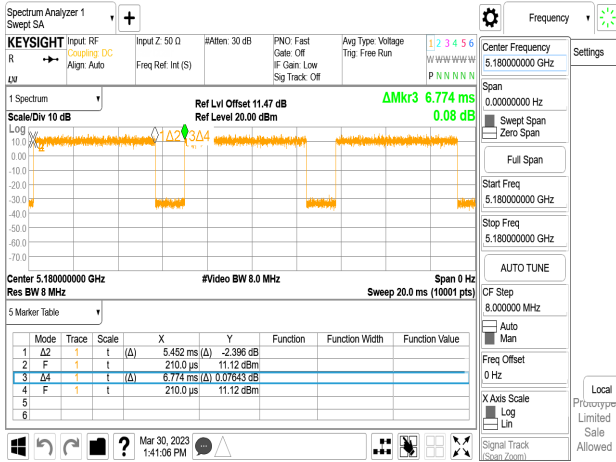


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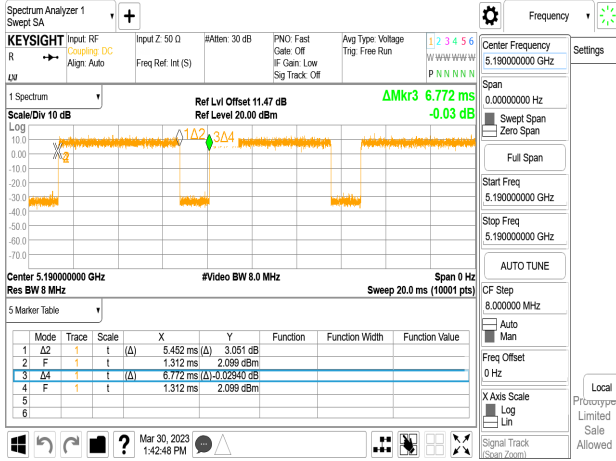
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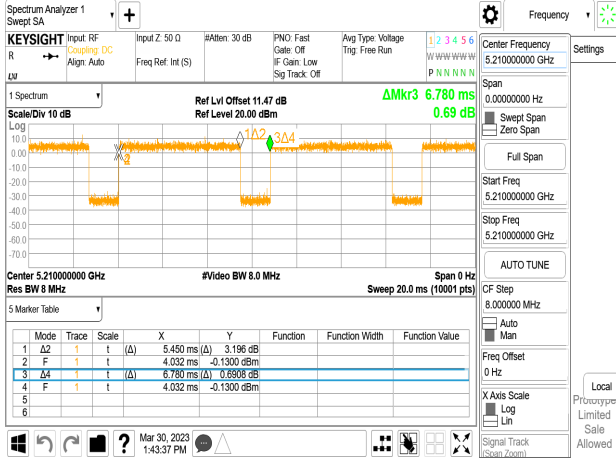
### 802.11ax\_20MHz\_Chain0\_5180MHz



### 802.11ax\_40MHz\_Chain0\_5190MHz



### 802.11ax\_80MHz\_Chain0\_5210MHz



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## 9.5 Output Power Measurement Result

### 9.5.1 FCC Output power

#### 802.11a\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.5	13.15	20.673	30	PASS
44	5220	6	12.5	12.87	19.383	30	PASS
48	5240	6	12.5	13.38	21.798	30	PASS
52	5260	6	19.5	18.67	73.690	23.98	PASS
60	5300	6	18.5	18.94	78.417	23.85	PASS
64	5320	6	17	16.91	49.137	23.98	PASS
100	5500	6	16.5	16.68	46.603	23.98	PASS
116	5580	6	19	18.84	76.632	23.94	PASS
140	5700	6	17.5	16.88	48.799	23.98	PASS
144	5720(U-NII 2C)	6	17	15.70	37.19	22.82	PASS
144	5720 (U-NII 3)	6	16.5	11.05	12.75	30	PASS
149	5745	6	17	16.95	49.592	30	PASS
157	5785	6	17.5	16.88	48.799	30	PASS
165	5825	6	0	16.92	49.250	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	12.5	13.10	20.437	30	PASS
44	5220	6	12.5	12.75	18.854	30	PASS
48	5240	6	12.5	13.17	20.769	30	PASS
52	5260	6	19	18.62	72.847	23.98	PASS
60	5300	6	18.5	18.81	76.105	23.98	PASS
64	5320	6	16	16.72	47.034	23.98	PASS
100	5500	6	17	16.65	46.282	23.98	PASS
116	5580	6	19	18.60	72.512	23.98	PASS
140	5700	6	16.5	16.67	46.495	23.92	PASS
144	5720(U-NII 2C)	6	16.5	15.30	33.87	22.79	PASS
144	5720 (U-NII 3)	6	17	10.59	11.46	30	PASS
149	5745	6	17	16.72	47.034	30	PASS
157	5785	6	17	16.80	47.908	30	PASS
165	5825	6	0	16.84	48.352	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
				Ch0	Ch1				
36	5180	6	13	13.18	12.69	15.96	39.412	30	PASS
44	5220	6	13	12.94	12.77	15.87	38.639	30	PASS
48	5240	6	13	13.39	12.52	15.99	39.730	30	PASS
52	5260	6	18.5	19.12	18.50	21.84	152.597	23.98	PASS
60	5300	6	18	19.06	18.32	21.72	148.599	23.85	PASS
64	5320	6	16.5	17.20	16.71	19.98	99.456	23.98	PASS
100	5500	6	17	17.41	16.49	19.99	99.741	23.98	PASS
116	5580	6	19	19.02	18.49	21.78	150.573	23.94	PASS
140	5700	6	17	17.21	16.32	19.80	95.547	23.92	PASS
144	5720(U-NII 2C)	6	17	15.79	15.35	18.85	76.687	22.79	PASS
144	5720 (U-NII 3)	6	17	11.14	10.64	14.17	26.127	30	PASS
149	5745	6	17.5	17.20	16.71	19.98	99.456	30	PASS
157	5785	6	17.5	16.98	16.93	19.97	99.300	30	PASS
165	5825	6	0	17.34	16.57	19.99	99.688	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	13	13.52	22.474	30	PASS
44	5220	MCS0	12.5	12.79	18.997	30	PASS
48	5240	MCS0	13	13.77	23.806	30	PASS
52	5260	MCS0	20	18.78	75.455	23.98	PASS
60	5300	MCS0	18.5	18.92	77.927	23.98	PASS
64	5320	MCS0	17.5	16.92	49.169	23.98	PASS
100	5500	MCS0	17.5	16.99	49.968	23.98	PASS
116	5580	MCS0	19	18.94	78.287	23.98	PASS
140	5700	MCS0	18	16.96	49.624	23.98	PASS
144	5720(U-NII 2C)	MCS0	17.5	15.70	37.14	23.98	PASS
144	5720 (U-NII 3)	MCS0	16.5	11.00	12.59	30	PASS
149	5745	MCS0	17.5	16.98	49.853	30	PASS
157	5785	MCS0	17.5	17.41	55.041	30	PASS
165	5825	MCS0	0	16.91	49.056	30	PASS

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802.11n\_HT20\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	13.21	20.926	30	PASS
44	5220	MCS0	12.5	12.50	17.770	30	PASS
48	5240	MCS0	13	13.01	19.984	30	PASS
52	5260	MCS0	19	18.69	73.908	23.98	PASS
60	5300	MCS0	18.5	18.86	76.858	23.98	PASS
64	5320	MCS0	16	16.73	47.064	23.98	PASS
100	5500	MCS0	17	16.85	48.383	23.98	PASS
116	5580	MCS0	19.5	18.65	73.230	23.98	PASS
140	5700	MCS0	18	16.73	47.064	23.98	PASS
144	5720(U-NII 2C)	MCS0	17	15.62	36.48	23.98	PASS
144	5720 (U-NII 3)	MCS0	17.5	11.11	12.91	30	PASS
149	5745	MCS0	17	16.90	48.943	30	PASS
157	5785	MCS0	17	17.38	54.663	30	PASS
165	5825	MCS0	0	16.53	44.946	30	PASS

802.11n\_HT20\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	13.5	13.54	13.23	16.39	43.601	30	PASS
44	5220	MCS0	13.5	12.84	12.71	15.78	37.868	30	PASS
48	5240	MCS0	13.5	13.81	13.03	16.44	44.103	30	PASS
52	5260	MCS0	19	19.38	18.48	21.96	157.053	23.98	PASS
60	5300	MCS0	18.5	19.24	18.46	21.87	153.982	23.98	PASS
64	5320	MCS0	16.5	17.24	16.52	19.90	97.771	23.98	PASS
100	5500	MCS0	17	17.34	16.33	19.87	97.084	23.98	PASS
116	5580	MCS0	19.5	19.31	18.60	21.98	157.641	23.98	PASS
140	5700	MCS0	17	17.26	16.10	19.73	93.882	23.98	PASS
144	5720(U-NII 2C)	MCS0	17.5	15.94	15.37	19.62	91.715	22.8	PASS
144	5720 (U-NII 3)	MCS0	17.5	11.24	10.86	15.02	31.737	30	PASS
149	5745	MCS0	17.5	17.13	16.82	19.98	99.654	30	PASS
157	5785	MCS0	17.5	17.42	16.38	19.94	98.588	30	PASS
165	5825	MCS0	0	17.30	16.27	19.82	95.999	30	PASS

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802.11n\_HT40\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	13.93	24.727	30	PASS
46	5230	MCS0	14.5	13.93	24.727	30	PASS
54	5270	MCS0	18.5	18.97	78.918	23.98	PASS
62	5310	MCS0	14	15.00	31.636	23.98	PASS
102	5510	MCS0	16	15.98	39.644	23.98	PASS
110	5550	MCS0	19	18.97	78.918	23.98	PASS
134	5670	MCS0	18.5	18.99	79.282	23.98	PASS
142	5710(U-NII 2C)	MCS0	16	15.16	32.80	23.98	PASS
142	5710 (U-NII 3)	MCS0	19.5	6.97	4.97	30	PASS
151	5755	MCS0	20.5	19.87	97.090	30	PASS
159	5795	MCS0	0	19.90	97.763	30	PASS

802.11n\_HT40\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	13.86	24.332	30	PASS
46	5230	MCS0	14.5	13.77	23.833	30	PASS
54	5270	MCS0	18.5	18.69	73.991	23.98	PASS
62	5310	MCS0	13.5	14.28	26.803	23.98	PASS
102	5510	MCS0	15	15.76	37.686	23.98	PASS
110	5550	MCS0	20	18.72	74.503	23.98	PASS
134	5670	MCS0	20	18.88	77.299	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	15.02	31.80	23.98	PASS
142	5710 (U-NII 3)	MCS0	20	6.47	4.43	30	PASS
151	5755	MCS0	20.5	19.56	90.402	30	PASS
159	5795	MCS0	0	19.87	97.090	30	PASS

802.11n\_HT40\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	14	14.28	13.66	16.99	50.039	30	PASS
46	5230	MCS0	14	14.00	13.61	16.82	48.100	30	PASS
54	5270	MCS0	18.5	19.29	18.62	21.98	157.760	23.98	PASS
62	5310	MCS0	14	15.13	14.31	17.75	59.585	23.98	PASS
102	5510	MCS0	15.5	16.13	15.31	18.75	75.013	23.98	PASS
110	5550	MCS0	19	19.13	18.82	21.99	158.119	23.98	PASS
134	5670	MCS0	19	19.11	18.33	21.75	149.608	23.98	PASS
142	5710(U-NII 2C)	MCS0	16	15.86	14.81	19.33	85.673	23.98	PASS
142	5710 (U-NII 3)	MCS0	20	7.67	6.26	10.98	12.528	30	PASS
151	5755	MCS0	20.5	20.30	19.63	22.99	199.066	30	PASS
159	5795	MCS0	0	19.91	19.74	22.84	192.216	30	PASS

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802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	13.43	22.004	30	PASS
44	5220	MCS0	12.5	12.70	18.600	30	PASS
48	5240	MCS0	13	13.63	23.041	30	PASS
52	5260	MCS0	20	18.76	75.076	23.98	PASS
60	5300	MCS0	18.5	18.90	77.536	23.98	PASS
64	5320	MCS0	17.5	16.85	48.362	23.98	PASS
100	5500	MCS0	17.5	16.90	48.922	23.98	PASS
116	5580	MCS0	19.5	18.77	75.249	23.98	PASS
140	5700	MCS0	17	16.92	49.148	23.98	PASS
144	5720(U-NII 2C)	MCS0	17.5	15.59	36.20	23.98	PASS
144	5720 (U-NII 3)	MCS0	16.5	10.89	12.27	30	PASS
149	5745	MCS0	17.5	16.98	49.831	30	PASS
157	5785	MCS0	16.5	17.30	53.642	30	PASS
165	5825	MCS0	0	16.59	45.552	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	13	13.12	20.488	30	PASS
44	5220	MCS0	12.5	12.42	17.438	30	PASS
48	5240	MCS0	13	12.97	19.793	30	PASS
52	5260	MCS0	19.5	18.63	72.862	23.98	PASS
60	5300	MCS0	19.5	18.68	73.706	23.98	PASS
64	5320	MCS0	17	16.61	45.762	23.98	PASS
100	5500	MCS0	17.5	16.60	45.657	23.98	PASS
116	5580	MCS0	19.5	18.57	71.863	23.98	PASS
140	5700	MCS0	18	16.53	44.927	23.98	PASS
144	5720(U-NII 2C)	MCS0	17	15.44	34.99	23.98	PASS
144	5720 (U-NII 3)	MCS0	17.5	10.93	12.38	30	PASS
149	5745	MCS0	17	16.63	45.973	30	PASS
157	5785	MCS0	17	17.28	53.395	30	PASS
165	5825	MCS0	0	16.51	44.720	30	PASS

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802.11ac\_VHT20\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	13.5	13.45	13.15	16.31	42.736	30	PASS
44	5220	MCS0	13.5	12.76	12.67	15.72	37.330	30	PASS
48	5240	MCS0	13.5	13.73	12.95	16.36	43.279	30	PASS
52	5260	MCS0	19	19.31	18.42	21.89	154.636	23.98	PASS
60	5300	MCS0	18.5	19.15	18.40	21.80	151.234	23.98	PASS
64	5320	MCS0	16.5	17.17	16.37	19.79	95.361	23.98	PASS
100	5500	MCS0	17	17.25	16.20	19.76	94.667	23.98	PASS
116	5580	MCS0	19.5	19.22	18.49	21.88	154.016	23.98	PASS
140	5700	MCS0	17	17.17	16.03	19.64	92.101	23.98	PASS
144	5720(U-NII 2C)	MCS0	17.5	15.88	15.24	19.52	89.535	22.8	PASS
144	5720 (U-NII 3)	MCS0	17.5	11.18	10.73	14.91	30.978	30	PASS
149	5745	MCS0	17.5	17.00	16.71	19.86	96.889	30	PASS
157	5785	MCS0	17.5	17.32	16.31	19.85	96.597	30	PASS
165	5825	MCS0	0	17.23	16.20	19.75	94.423	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	14	13.90	24.557	30	PASS
46	5230	MCS0	14.5	13.88	24.444	30	PASS
54	5270	MCS0	18.5	18.94	78.375	23.98	PASS
62	5310	MCS0	14	14.96	31.346	23.98	PASS
102	5510	MCS0	16	15.93	39.190	23.98	PASS
110	5550	MCS0	19	18.91	77.835	23.98	PASS
134	5670	MCS0	18.5	18.96	78.737	23.98	PASS
142	5710(U-NII 2C)	MCS0	16	15.14	32.65	23.98	PASS
142	5710 (U-NII 3)	MCS0	19.5	6.95	4.95	30	PASS
151	5755	MCS0	20.5	19.83	96.200	30	PASS
159	5795	MCS0	0	19.87	97.090	30	PASS

802.11ac\_VHT40\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15	13.69	23.398	30	PASS
46	5230	MCS0	14.5	13.73	23.614	30	PASS
54	5270	MCS0	19	18.64	73.144	23.98	PASS
62	5310	MCS0	13.5	14.21	26.374	23.98	PASS
102	5510	MCS0	16	15.60	36.323	23.98	PASS
110	5550	MCS0	20.5	18.57	71.974	23.98	PASS
134	5670	MCS0	20.5	18.65	73.312	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	15.00	31.66	23.98	PASS
142	5710 (U-NII 3)	MCS0	20	6.45	4.41	30	PASS
151	5755	MCS0	20.5	19.51	89.367	30	PASS
159	5795	MCS0	0	19.57	90.610	30	PASS

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802.11ac\_VHT40\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	14	14.18	13.57	16.90	48.953	30	PASS
46	5230	MCS0	14	13.89	13.48	16.70	46.794	30	PASS
54	5270	MCS0	18.5	19.21	18.56	21.91	155.211	23.98	PASS
62	5310	MCS0	14	14.98	14.18	17.61	57.683	23.98	PASS
102	5510	MCS0	15.5	16.06	15.18	18.65	73.355	23.98	PASS
110	5550	MCS0	19	19.04	18.77	21.92	155.567	23.98	PASS
134	5670	MCS0	19	19.02	18.21	21.65	146.080	23.98	PASS
142	5710(U-NII 2C)	MCS0	16	15.77	14.75	19.25	84.172	23.98	PASS
142	5710 (U-NII 3)	MCS0	19.5	7.58	6.20	10.90	12.307	30	PASS
151	5755	MCS0	20.5	20.21	19.56	22.91	195.398	30	PASS
159	5795	MCS0	0	19.91	19.68	22.81	190.923	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	15	13.78	23.869	30	PASS
58	5290	MCS0	12.5	13.10	20.409	23.98	PASS
106	5530	MCS0	14.5	13.91	24.594	23.98	PASS
122	5610	MCS0	19	18.77	75.305	23.98	PASS
138	5690(U-NII 2C)	MCS0	13.5	13.60	22.90	23.98	PASS
138	5690 (U-NII 3)	MCS0	19.5	2.42	1.75	30	PASS
155	5775	MCS0	0	19.81	95.681	30	PASS

802.11ac\_VHT80\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	15	13.67	23.272	30	PASS
58	5290	MCS0	12.5	12.64	18.358	23.98	PASS
106	5530	MCS0	15	13.61	22.952	23.98	PASS
122	5610	MCS0	19	18.57	71.916	23.98	PASS
138	5690(U-NII 2C)	MCS0	14	13.39	21.83	23.98	PASS
138	5690 (U-NII 3)	MCS0	20	1.90	1.55	30	PASS
155	5775	MCS0	0	19.57	90.537	30	PASS

802.11ac\_VHT80\_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	14.5	14.02	13.58	16.81	48.019	30	PASS
58	5290	MCS0	12.5	13.40	12.67	16.06	40.354	23.98	PASS
106	5530	MCS0	14.5	14.25	13.60	16.95	49.496	23.98	PASS
122	5610	MCS0	19.5	18.99	18.91	21.96	156.991	23.98	PASS
138	5690(U-NII 2C)	MCS0	14.5	13.92	13.37	17.62	57.863	23.98	PASS
138	5690 (U-NII 3)	MCS0	20.5	2.74	1.88	6.30	4.265	30	PASS
155	5775	MCS0	0	19.99	19.71	22.86	193.233	30	PASS

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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	13	12.97	19.830	30	PASS
44	5220	MCS0	full	13.5	13.53	22.559	30	PASS
48	5240	MCS0	full	13	13.22	21.004	30	PASS
52	5260	MCS0	full	19.5	18.83	76.438	23.98	PASS
60	5300	MCS0	full	20	18.86	76.968	23.98	PASS
64	5320	MCS0	full	17.5	16.88	48.788	23.98	PASS
100	5500	MCS0	full	17.5	16.98	49.924	23.98	PASS
116	5580	MCS0	full	19.5	18.96	78.761	23.98	PASS
140	5700	MCS0	full	16.5	16.90	49.013	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	16.5	15.59	36.200	22.94	PASS
144	5720 (U-NII 3)	MCS0	full	16.5	11.15	13.039	30	PASS
149	5745	MCS0	full	16.5	16.93	49.353	30	PASS
157	5785	MCS0	full	17.5	16.97	49.809	30	PASS
165	5825	MCS0	full	17	16.84	48.341	30	PASS

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	13	12.81	19.112	30	PASS
44	5220	MCS0	full	13.5	13.33	21.543	30	PASS
48	5240	MCS0	full	13	12.46	17.632	30	PASS
52	5260	MCS0	full	19	18.53	71.337	23.98	PASS
60	5300	MCS0	full	18.5	18.54	71.501	23.98	PASS
64	5320	MCS0	full	16	16.53	45.010	23.98	PASS
100	5500	MCS0	full	17.5	16.72	47.023	23.98	PASS
116	5580	MCS0	full	19.5	18.63	72.998	23.98	PASS
140	5700	MCS0	full	18	16.89	48.900	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	17	15.31	33.989	22.84	PASS
144	5720 (U-NII 3)	MCS0	full	17	10.70	11.752	30	PASS
149	5745	MCS0	full	17	16.54	45.114	30	PASS
157	5785	MCS0	full	17	16.71	46.915	30	PASS
165	5825	MCS0	full	17	16.70	46.807	30	PASS

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802.11ax\_HE20\_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	13.5	13.00	12.83	15.93	39.167	30	PASS
44	5220	MCS0	full	14	13.55	13.37	16.47	44.405	30	PASS
48	5240	MCS0	full	13.5	13.26	12.42	15.87	38.670	30	PASS
52	5260	MCS0	full	19	19.30	18.38	21.88	154.090	23.98	PASS
60	5300	MCS0	full	19	19.28	18.62	21.98	157.614	23.98	PASS
64	5320	MCS0	full	17	17.22	16.63	19.95	98.820	23.98	PASS
100	5500	MCS0	full	17	17.25	16.23	19.78	95.133	23.98	PASS
116	5580	MCS0	full	19.5	19.06	18.53	21.82	151.932	23.98	PASS
140	5700	MCS0	full	17.5	17.53	16.34	19.99	99.748	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	17.5	15.87	15.31	18.61	72.600	22.84	PASS
144	5720 (U-NII 3)	MCS0	full	17.5	11.43	10.70	15.03	31.861	30	PASS
149	5745	MCS0	full	17.5	17.13	16.80	19.98	99.576	30	PASS
157	5785	MCS0	full	17.5	17.02	16.76	19.91	97.845	30	PASS
165	5825	MCS0	full	18	17.29	16.50	19.93	98.319	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	14.5	13.94	24.783	30	PASS
46	5230	MCS0	full	15	13.96	24.897	30	PASS
54	5270	MCS0	full	19.5	18.92	78.010	23.98	PASS
62	5310	MCS0	full	14	14.32	27.049	23.98	PASS
102	5510	MCS0	full	16.5	15.97	39.550	23.98	PASS
110	5550	MCS0	full	19.5	18.95	39.550	23.98	PASS
134	5670	MCS0	full	19	18.98	79.095	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	15.5	15.38	34.481	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	15.5	7.20	5.252	30	PASS
151	5755	MCS0	full	19.5	19.92	98.209	30	PASS
159	5795	MCS0	full	20.5	19.88	97.308	30	PASS

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	15	13.53	22.550	30	PASS
46	5230	MCS0	full	15.5	13.52	22.498	30	PASS
54	5270	MCS0	full	19	18.70	74.157	23.98	PASS
62	5310	MCS0	full	13.5	14.23	26.494	23.98	PASS
102	5510	MCS0	full	16	15.51	35.575	23.98	PASS
110	5550	MCS0	full	19.5	18.77	35.575	23.98	PASS
134	5670	MCS0	full	19	18.55	71.639	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	16	15.11	32.447	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	16	6.82	4.805	30	PASS
151	5755	MCS0	full	20	19.61	91.443	30	PASS
159	5795	MCS0	full	20.5	19.51	89.361	30	PASS

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802.11ax\_HE40\_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	14.5	14.12	13.83	16.99	49.994	30	PASS
46	5230	MCS0	full	14.5	14.25	13.63	16.96	49.692	30	PASS
54	5270	MCS0	full	19	19.28	18.60	21.97	157.221	23.98	PASS
62	5310	MCS0	full	14	14.68	13.84	17.29	53.605	23.98	PASS
102	5510	MCS0	full	16	16.30	15.50	18.93	78.166	23.98	PASS
110	5550	MCS0	full	19	18.96	18.58	21.79	78.166	23.98	PASS
134	5670	MCS0	full	19.5	19.31	18.41	21.90	154.706	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	16.5	15.81	14.87	18.37	68.773	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	16.5	7.63	6.58	11.09	12.845	30	PASS
151	5755	MCS0	full	20.5	20.25	19.66	22.98	198.464	30	PASS
159	5795	MCS0	full	21	19.95	19.92	22.95	197.098	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	13.94	24.766	30	PASS
58	5290	MCS0	full	12.5	13.24	21.079	23.98	PASS
106	5530	MCS0	full	14.5	13.93	24.709	23.98	PASS
122	5610	MCS0	full	19.5	18.90	77.598	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	13.5	13.67	23.294	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	13.5	2.31	1.701	30	PASS
155	5775	MCS0	full	20	19.91	97.916	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	13.91	24.595	30	PASS
58	5290	MCS0	full	13	13.21	20.934	23.98	PASS
106	5530	MCS0	full	14	13.90	24.539	23.98	PASS
122	5610	MCS0	full	19.5	18.64	73.089	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	14	13.28	21.264	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	14	1.85	1.532	30	PASS
155	5775	MCS0	full	20.5	19.53	89.712	30	PASS

802.11ax\_HE80\_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	15	14.26	13.66	16.98	49.879	30	PASS
58	5290	MCS0	full	12.5	13.26	12.62	15.96	39.451	23.98	PASS
106	5530	MCS0	full	14	13.94	13.31	16.65	46.187	23.98	PASS
122	5610	MCS0	full	19.5	18.92	18.90	21.92	155.555	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	14.5	13.77	13.21	16.51	44.760	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	14.5	2.41	1.78	6.07	4.043	30	PASS
155	5775	MCS0	full	20.5	19.93	19.46	22.71	186.645	30	PASS

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## 9.5.2 ISED Conducted output power and EIRP

## 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.67	73.690	23.14	PASS
60	5300	<b>18.94</b>	<b>78.417</b>	23.15	PASS
64	5320	16.91	49.137	23.14	PASS
100	5500	16.68	46.603	23.14	PASS
116	5580	18.84	<b>76.632</b>	23.15	PASS
140	5700	16.88	<b>48.799</b>	23.15	PASS
144	5720(U-NII 2C)	15.70	37.189	22.20	PASS
144	5720 (U-NII 3)	11.05	12.747	30	PASS
149	5745	16.95	<b>49.592</b>	30	PASS
157	5785	16.88	48.799	30	PASS
165	5825	16.92	49.250	30	PASS

## 802.11a\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.62	72.847	23.15	PASS
60	5300	<b>18.81</b>	<b>76.105</b>	23.15	PASS
64	5320	16.72	47.034	23.16	PASS
100	5500	16.65	46.282	23.14	PASS
116	5580	<b>18.60</b>	<b>72.512</b>	23.14	PASS
140	5700	<b>16.67</b>	<b>46.495</b>	23.15	PASS
144	5720(U-NII 2C)	15.30	33.871	22.21	PASS
144	5720 (U-NII 3)	10.59	11.462	30	PASS
149	5745	16.72	47.034	30	PASS
157	5785	16.80	47.908	30	PASS
165	5825	<b>16.84</b>	<b>48.352</b>	30	PASS

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802.11a\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	19.12	18.50	<b>21.84</b>	<b>152.597</b>	23.14	PASS
60	5300	19.06	18.32	21.72	148.599	23.15	PASS
64	5320	17.20	16.71	19.98	99.456	23.14	PASS
100	5500	17.41	16.49	19.99	99.741	23.14	PASS
116	5580	19.02	18.49	21.78	<b>150.573</b>	23.14	PASS
140	5700	17.21	16.32	19.80	<b>95.547</b>	23.15	PASS
144	5720(U-NII 2C)	15.79	15.35	18.85	76.687	22.2	PASS
144	5720 (U-NII 3)	11.14	10.64	14.17	26.127	30	PASS
149	5745	17.20	16.71	19.98	99.456	30	PASS
157	5785	16.98	16.93	19.97	99.300	30	PASS
165	5825	17.34	16.57	19.99	<b>99.688</b>	30	PASS

802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.78	75.455	23.46	PASS
60	5300	<b>18.92</b>	77.927	23.45	PASS
64	5320	16.92	49.169	23.46	PASS
100	5500	16.99	49.968	23.46	PASS
116	5580	<b>18.94</b>	<b>78.287</b>	23.46	PASS
140	5700	<b>16.96</b>	<b>49.624</b>	23.46	PASS
144	5720(U-NII 2C)	15.70	37.144	22.4	PASS
144	5720 (U-NII 3)	11.00	12.594	30	PASS
149	5745	16.98	49.853	30	PASS
157	5785	<b>17.41</b>	<b>55.041</b>	30	PASS
165	5825	16.91	49.056	30	PASS

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## 802.11n\_HT20\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.69	73.908	23.46	PASS
60	5300	<b>18.86</b>	<b>76.858</b>	23.45	PASS
64	5320	16.73	47.064	23.46	PASS
100	5500	16.85	48.383	23.46	PASS
116	5580	<b>18.65</b>	<b>73.230</b>	23.46	PASS
140	5700	<b>16.73</b>	<b>47.064</b>	23.46	PASS
144	5720(U-NII 2C)	15.62	36.481	22.4	PASS
144	5720 (U-NII 3)	11.11	12.915	30	PASS
149	5745	16.90	48.943	30	PASS
157	5785	<b>17.38</b>	<b>54.663</b>	30	PASS
165	5825	16.53	44.946	30	PASS

## 802.11n\_HT20\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	19.38	18.48	21.96	157.053	23.46	PASS
60	5300	19.24	18.46	21.87	153.982	23.45	PASS
64	5320	17.24	16.52	19.90	97.771	23.46	PASS
100	5500	17.34	16.33	19.87	97.084	23.46	PASS
116	5580	19.31	18.60	<b>21.98</b>	<b>157.641</b>	23.46	PASS
140	5700	17.26	16.10	<b>19.73</b>	<b>93.882</b>	23.46	PASS
144	5720(U-NII 2C)	15.94	15.37	19.62	91.715	22.4	PASS
144	5720 (U-NII 3)	11.24	10.86	15.02	31.737	30	PASS
149	5745	17.13	16.82	<b>19.98</b>	<b>99.654</b>	30	PASS
157	5785	17.42	16.38	19.94	98.588	30	PASS
165	5825	17.30	16.27	19.82	95.999	30	PASS

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## 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>18.97</b>	78.918	23.98	PASS
62	5310	15.00	31.636	23.98	PASS
102	5510	15.98	39.644	23.98	PASS
110	5550	<b>18.97</b>	<b>78.918</b>	23.98	PASS
134	5670	<b>18.99</b>	<b>79.282</b>	23.98	PASS
142	5710(U-NII 2C)	15.16	32.801	23.98	PASS
142	5710 (U-NII 3)	6.97	4.972	30	PASS
151	5755	19.87	97.090	30	PASS
159	5795	<b>19.90</b>	<b>97.763</b>	30	PASS

## 802.11n\_HT40\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>18.69</b>	73.991	23.98	PASS
62	5310	14.28	26.803	23.98	PASS
102	5510	15.76	37.686	23.98	PASS
110	5550	<b>18.72</b>	<b>74.503</b>	23.98	PASS
134	5670	<b>18.88</b>	<b>77.299</b>	23.98	PASS
142	5710(U-NII 2C)	15.02	31.805	23.98	PASS
142	5710 (U-NII 3)	6.47	4.434	30	PASS
151	5755	19.56	90.402	30	PASS
159	5795	<b>19.87</b>	<b>97.090</b>	30	PASS

## 802.11n\_HT40\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	19.29	18.62	21.98	157.760	23.98	PASS
62	5310	15.13	14.31	17.75	59.585	23.98	PASS
102	5510	16.13	15.31	18.75	75.013	23.98	PASS
110	5550	19.13	18.82	<b>21.99</b>	<b>158.119</b>	23.98	PASS
134	5670	19.11	18.33	<b>21.75</b>	<b>149.608</b>	23.98	PASS
142	5710(U-NII 2C)	15.86	14.81	19.33	85.673	23.98	PASS
142	5710 (U-NII 3)	7.67	6.26	10.98	12.528	30	PASS
151	5755	20.30	19.63	<b>22.99</b>	<b>199.066</b>	30	PASS
159	5795	19.91	19.74	22.84	192.216	30	PASS

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**802.11ac\_VHT20\_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.76	75.076	23.46	PASS
60	5300	<b>18.90</b>	<b>77.536</b>	23.45	PASS
64	5320	16.85	48.362	23.46	PASS
100	5500	16.90	48.922	23.46	PASS
116	5580	<b>18.77</b>	<b>75.249</b>	23.46	PASS
140	5700	<b>16.92</b>	<b>49.148</b>	23.46	PASS
144	5720(U-NII 2C)	15.59	36.200	22.4	PASS
144	5720 (U-NII 3)	10.89	12.274	30	PASS
149	5745	16.98	49.831	30	PASS
157	5785	<b>17.30</b>	<b>53.642</b>	30	PASS
165	5825	16.59	45.552	30	PASS

**802.11ac\_VHT20\_Ch1**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	18.63	72.862	23.46	PASS
60	5300	<b>18.68</b>	<b>73.706</b>	23.45	PASS
64	5320	16.61	45.762	23.46	PASS
100	5500	16.60	45.657	23.46	PASS
116	5580	<b>18.57</b>	<b>71.863</b>	23.46	PASS
140	5700	<b>16.53</b>	<b>44.927</b>	23.46	PASS
144	5720(U-NII 2C)	15.44	34.985	22.4	PASS
144	5720 (U-NII 3)	10.93	12.385	30	PASS
149	5745	16.63	45.973	30	PASS
157	5785	<b>17.28</b>	<b>53.395</b>	30	PASS
165	5825	16.51	44.720	30	PASS

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802.11ac\_VHT20\_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	19.31	18.42	<b>21.89</b>	<b>154.636</b>	23.46	PASS
60	5300	19.15	18.40	21.80	151.234	23.45	PASS
64	5320	17.17	16.37	19.79	95.361	23.46	PASS
100	5500	17.25	16.20	19.76	94.667	23.46	PASS
116	5580	19.22	18.49	<b>21.88</b>	<b>154.016</b>	23.46	PASS
140	5700	17.17	16.03	<b>19.64</b>	<b>92.101</b>	23.46	PASS
144	5720(U-NII 2C)	15.88	15.24	19.52	89.535	22.4	PASS
144	5720 (U-NII 3)	11.18	10.73	14.91	30.978	30	PASS
149	5745	17.00	16.71	<b>19.86</b>	<b>96.889</b>	30	PASS
157	5785	17.32	16.31	19.85	96.597	30	PASS
165	5825	17.23	16.20	19.75	94.423	30	PASS

802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>18.94</b>	78.375	23.98	PASS
62	5310	14.96	31.346	23.98	PASS
102	5510	15.93	39.190	23.98	PASS
110	5550	<b>18.91</b>	<b>77.835</b>	23.98	PASS
134	5670	<b>18.96</b>	<b>78.737</b>	23.98	PASS
142	5710(U-NII 2C)	15.14	32.650	23.98	PASS
142	5710 (U-NII 3)	6.95	4.949	30	#REF!
151	5755	19.83	96.200	30	PASS
159	5795	<b>19.87</b>	<b>97.090</b>	30	PASS

802.11ac\_VHT40\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>18.64</b>	73.144	23.98	PASS
62	5310	14.21	26.374	23.98	PASS
102	5510	15.60	36.323	23.98	PASS
110	5550	<b>18.57</b>	<b>71.974</b>	23.98	PASS
134	5670	<b>18.65</b>	<b>73.312</b>	23.98	PASS
142	5710(U-NII 2C)	15.00	31.659	23.98	PASS
142	5710 (U-NII 3)	6.45	4.414	30	#REF!
151	5755	19.51	89.367	30	PASS
159	5795	<b>19.57</b>	<b>90.610</b>	30	PASS

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**802.11ac\_VHT40\_2TX**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	19.21	18.56	21.91	155.211	23.98	PASS
62	5310	14.98	14.18	17.61	57.683	23.98	PASS
102	5510	16.06	15.18	18.65	73.355	23.98	PASS
110	5550	19.04	18.77	<b>21.92</b>	<b>155.567</b>	23.98	PASS
134	5670	19.02	18.21	<b>21.65</b>	<b>146.080</b>	23.98	PASS
142	5710(U-NII 2C)	15.77	14.75	19.25	84.172	23.98	PASS
142	5710 (U-NII 3)	7.58	6.20	10.90	12.307	30	PASS
151	5755	20.21	19.56	<b>22.91</b>	<b>195.398</b>	30	PASS
159	5795	19.91	19.68	22.81	190.923	30	PASS

**802.11ac\_VHT80\_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	<b>13.10</b>	20.409	23.98	PASS
106	5530	13.91	24.594	23.98	PASS
138	5690(U-NII 2C)	13.60	22.905	23.98	PASS
138	5690 (U-NII 3)	2.42	1.746	30	PASS
155	5775	<b>19.81</b>	<b>95.681</b>	30	PASS

**802.11ac\_VHT80\_Ch1**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	<b>12.64</b>	18.358	23.98	PASS
106	5530	13.61	22.952	23.98	PASS
138	5710(U-NII 2C)	13.39	21.832	23.98	PASS
138	5690 (U-NII 3)	1.90	1.547	30	PASS
155	5775	<b>19.57</b>	<b>90.537</b>	30	PASS

**802.11ac\_VHT80\_2TX**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	13.40	12.67	<b>16.06</b>	40.354	23.98	PASS
106	5530	14.25	13.60	16.95	49.496	23.98	PASS
138	5710(U-NII 2C)	13.92	13.37	17.62	57.863	23.98	PASS
138	5690 (U-NII 3)	2.74	1.88	6.30	4.265	30	PASS
155	5775	19.99	19.71	<b>22.86</b>	<b>193.233</b>	30	PASS

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## 802.11ax\_HE20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	18.83	76.438	23.77	PASS
60	5300	full	18.86	76.968	23.77	PASS
64	5320	full	16.88	48.788	23.77	PASS
100	5500	full	16.98	49.924	23.77	PASS
116	5580	full	<b>18.96</b>	<b>78.761</b>	23.77	PASS
140	5700	full	16.90	49.013	23.77	PASS
144	5720(U-NII	full	15.59	36.200	22.6	PASS
144	5720 (U-NII 3)	full	11.15	13.039	30	PASS
149	5745	full	<b>16.93</b>	<b>49.353</b>	30	PASS
157	5785	full	<b>16.97</b>	<b>49.809</b>	30	PASS
165	5825	full	<b>16.84</b>	<b>48.341</b>	30	PASS

## 802.11ax\_HE20\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	18.53	71.337	23.77	PASS
60	5300	full	18.54	71.501	23.77	PASS
64	5320	full	16.53	45.010	23.77	PASS
100	5500	full	16.72	47.023	23.76	PASS
116	5580	full	<b>18.63</b>	<b>72.998</b>	23.76	PASS
140	5700	full	16.89	48.900	23.77	PASS
144	5720(U-NII	full	15.31	33.989	22.6	PASS
144	5720 (U-NII 3)	full	10.70	11.752	30	PASS
149	5745	full	<b>16.54</b>	<b>45.114</b>	30	PASS
157	5785	full	<b>16.71</b>	<b>46.915</b>	30	PASS
165	5825	full	16.70	46.807	30	PASS

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802.11ax\_HE20\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
52	5260	full	19.30	18.38	21.88	154.090	23.77	PASS
60	5300	full	19.28	18.62	21.98	<b>157.614</b>	23.77	PASS
64	5320	full	17.22	16.63	19.95	98.820	23.77	PASS
100	5500	full	17.25	16.23	19.78	95.133	23.76	PASS
116	5580	full	19.06	18.53	21.82	<b>151.932</b>	23.76	PASS
140	5700	full	17.53	16.34	19.99	99.748	23.77	PASS
144	5720(U-NII)	full	15.87	15.31	18.61	72.600	22.6	PASS
144	5720 (U-NII 3)	full	11.43	10.70	15.03	31.861	30	PASS
149	5745	full	17.13	16.80	19.98	<b>99.576</b>	30	PASS
157	5785	full	17.02	16.76	19.91	97.845	30	PASS
165	5825	full	17.29	16.50	19.93	<b>98.319</b>	30	PASS

802.11ax\_HE40\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	full	18.92	78.010	23.98	PASS
62	5310	full	14.32	27.049	23.98	PASS
102	5510	full	15.97	39.550	23.98	PASS
110	5550	full	18.95	78.551	23.98	PASS
134	5670	full	18.98	79.095	23.98	PASS
142	5710(U-NII)	full	<b>15.38</b>	<b>34.481</b>	23.98	PASS
142	5710 (U-NII 3)	full	7.20	5.252	30	PASS
151	5755	full	<b>19.92</b>	<b>98.209</b>	30	PASS
159	5795	full	19.88	97.308	30	PASS

802.11ax\_HE40\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	full	18.70	74.157	23.98	PASS
62	5310	full	14.23	26.494	23.98	PASS
102	5510	full	15.51	35.575	23.98	PASS
110	5550	full	<b>18.77</b>	<b>75.362</b>	23.98	PASS
134	5670	full	18.55	71.639	23.98	PASS
142	5710(U-NII)	full	<b>15.11</b>	<b>32.447</b>	23.98	PASS
142	5710 (U-NII 3)	full	6.82	4.805	30	PASS
151	5755	full	<b>19.61</b>	<b>91.443</b>	30	PASS
159	5795	full	19.51	89.361	30	PASS

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802.11ax\_HE40\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
54	5270	full	19.28	18.60	21.97	157.221	23.98	PASS
62	5310	full	14.68	13.84	17.29	53.605	23.98	PASS
102	5510	full	16.30	15.50	18.93	78.166	23.98	PASS
110	5550	full	18.96	18.58	21.79	150.867	23.98	PASS
134	5670	full	19.31	18.41	21.90	<b>154.706</b>	23.98	PASS
142	5710(U-NII)	full	15.81	14.87	18.37	<b>68.773</b>	23.98	PASS
142	5710 (U-NII 3)	full	7.63	6.58	11.09	12.845	30	PASS
151	5755	full	20.25	19.66	22.98	<b>198.464</b>	30	PASS
159	5795	full	19.95	19.92	22.95	197.098	30	PASS

802.11ax\_HE80\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	full	13.24	21.079	23.98	PASS
106	5530	full	13.93	24.709	23.98	PASS
138	5690(U-NII)	full	13.67	23.294	23.98	PASS
138	5690 (U-NII 3)	full	2.31	1.701	30	PASS
155	5775	full	<b>19.91</b>	<b>97.916</b>	30	PASS

802.11ax\_HE80\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	full	13.21	20.934	23.98	PASS
106	5530	full	13.90	24.539	23.98	PASS
138	5690(U-NII)	full	13.28	21.264	23.98	PASS
138	5690 (U-NII 3)	full	1.85	1.532	30	PASS
155	5775	full	<b>19.53</b>	<b>89.712</b>	30	PASS

802.11ax\_HE80\_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
58	5290	full	13.26	12.62	15.96	39.451	23.98	PASS
106	5530	full	13.94	13.31	16.65	46.187	23.98	PASS
138	5690(U-NII)	full	13.77	13.21	16.51	44.760	23.98	PASS
138	5690 (U-NII 3)	full	2.41	1.78	6.07	4.043	30	PASS
155	5775	full	19.93	19.46	22.71	<b>186.645</b>	30	PASS

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802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.15	1.10	14.25	26.607	22.14	PASS
44	5220	12.87	1.10	13.97	24.946	22.15	PASS
48	5240	<b>13.38</b>	1.10	<b>14.48</b>	<b>28.054</b>	22.14	PASS
52	5260	18.67	1.10	19.77	94.842	29.14	PASS
60	5300	<b>18.94</b>	1.10	<b>20.04</b>	<b>100.925</b>	29.15	PASS
64	5320	16.91	1.10	18.01	63.241	29.14	PASS
100	5500	16.68	1.20	17.88	61.376	29.14	PASS
116	5580	<b>18.84</b>	1.20	<b>20.04</b>	<b>100.925</b>	29.15	PASS
140	5700	<b>16.88</b>	1.20	<b>18.08</b>	<b>64.269</b>	29.15	PASS

802.11a\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.10	1.100	14.20	26.303	22.14	PASS
44	5220	12.75	1.100	13.85	24.266	22.15	PASS
48	5240	<b>13.17</b>	1.100	<b>14.27</b>	<b>26.730</b>	22.15	PASS
52	5260	18.62	1.100	19.72	93.756	29.15	PASS
60	5300	<b>18.81</b>	1.100	<b>19.91</b>	<b>97.949</b>	29.15	PASS
64	5320	16.72	1.100	17.82	60.534	29.16	PASS
100	5500	16.65	1.200	17.85	60.954	29.14	PASS
116	5580	<b>18.60</b>	1.200	<b>19.80</b>	<b>95.499</b>	29.14	PASS
140	5700	<b>16.67</b>	1.200	<b>17.87</b>	<b>61.235</b>	29.15	PASS

802.11a\_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.96	4.11	20.07	101.625	22.14	PASS
44	5220	15.87	4.11	19.98	99.541	22.15	PASS
48	5240	<b>15.99</b>	4.11	<b>20.10</b>	<b>102.329</b>	22.14	PASS
52	5260	<b>21.84</b>	4.11	<b>25.95</b>	<b>393.550</b>	29.14	PASS
60	5300	21.72	4.11	25.83	382.825	29.15	PASS
64	5320	19.98	4.11	24.09	256.448	29.14	PASS
100	5500	19.99	4.21	24.20	263.027	29.14	PASS
116	5580	<b>21.78</b>	4.21	<b>25.99</b>	<b>397.192</b>	29.14	PASS
140	5700	<b>19.80</b>	4.21	<b>24.01</b>	<b>251.768</b>	29.15	PASS

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802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.52	1.10	14.62	28.973	22.46	PASS
44	5220	12.79	1.10	13.89	24.491	22.46	PASS
48	5240	<b>13.77</b>	1.10	<b>14.87</b>	<b>30.690</b>	22.46	PASS
52	5260	18.78	1.10	19.88	97.275	29.46	PASS
60	5300	<b>18.92</b>	1.10	<b>20.02</b>	<b>100.462</b>	29.45	PASS
64	5320	16.92	1.10	18.02	63.387	29.46	PASS
100	5500	16.99	1.20	18.19	65.917	29.46	PASS
116	5580	<b>18.94</b>	1.20	<b>20.14</b>	<b>103.276</b>	29.46	PASS
140	5700	<b>16.96</b>	1.20	<b>18.16</b>	<b>65.464</b>	29.46	PASS

802.11n\_HT20\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	<b>13.21</b>	1.100	<b>14.31</b>	<b>26.977</b>	22.46	PASS
44	5220	12.50	1.100	13.60	22.909	22.46	PASS
48	5240	13.01	1.100	14.11	25.763	22.45	PASS
52	5260	18.69	1.100	19.79	95.280	22.46	PASS
60	5300	<b>18.86</b>	1.100	<b>19.96</b>	<b>99.083</b>	22.45	PASS
64	5320	16.73	1.100	17.83	60.674	22.46	PASS
100	5500	16.85	1.200	18.05	63.826	22.46	PASS
116	5580	<b>18.65</b>	1.200	<b>19.85</b>	<b>96.605</b>	22.46	PASS
140	5700	<b>16.73</b>	1.200	<b>17.93</b>	<b>62.087</b>	22.46	PASS

802.11n\_HT20\_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.39	4.11	20.50	112.202	22.46	PASS
44	5220	15.78	4.11	19.89	97.499	22.46	PASS
48	5240	<b>16.44</b>	4.11	<b>20.55</b>	<b>113.501</b>	22.45	PASS
52	5260	<b>21.96</b>	4.11	<b>26.07</b>	<b>404.576</b>	29.46	PASS
60	5300	21.87	4.11	25.98	396.278	29.45	PASS
64	5320	19.90	4.11	24.01	251.768	29.46	PASS
100	5500	19.87	4.21	24.08	255.859	29.46	PASS
116	5580	<b>21.98</b>	4.21	<b>26.19</b>	<b>415.911</b>	29.46	PASS
140	5700	<b>19.73</b>	4.21	<b>23.94</b>	<b>247.742</b>	29.46	PASS

802.11n\_HT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>13.93</b>	1.10	<b>15.03</b>	<b>31.842</b>	23.01	PASS
46	5230	<b>13.93</b>	1.10	<b>15.03</b>	<b>31.842</b>	23.01	PASS
54	5270	<b>18.97</b>	1.10	<b>20.07</b>	<b>101.625</b>	30	PASS
62	5310	15.00	1.10	16.10	40.738	30	PASS
102	5510	15.98	1.20	17.18	52.240	30	PASS
110	5550	<b>18.97</b>	1.20	<b>20.17</b>	<b>103.992</b>	30	PASS
134	5670	<b>18.99</b>	1.20	<b>20.19</b>	<b>104.472</b>	30	PASS

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802.11n\_HT40\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>13.86</b>	1.100	<b>14.96</b>	<b>31.333</b>	23.01	PASS
46	5230	13.77	1.100	14.87	30.690	23.01	PASS
54	5270	<b>18.69</b>	1.100	<b>19.79</b>	<b>95.280</b>	30	PASS
62	5310	14.28	1.100	15.38	34.514	30	PASS
102	5510	15.76	1.200	16.96	49.659	30	PASS
110	5550	<b>18.72</b>	1.200	<b>19.92</b>	<b>98.175</b>	30	PASS
134	5670	<b>18.88</b>	1.200	<b>20.08</b>	<b>101.859</b>	30	PASS

802.11n\_HT40\_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>16.99</b>	4.11	<b>21.10</b>	<b>128.825</b>	23.01	PASS
46	5230	16.82	4.11	20.93	123.880	23.01	PASS
54	5270	<b>21.98</b>	4.11	<b>26.09</b>	<b>406.443</b>	30	PASS
62	5310	17.75	4.11	21.86	153.462	30	PASS
102	5510	18.75	4.21	22.96	197.697	30	PASS
110	5550	<b>21.99</b>	4.21	<b>26.20</b>	<b>416.869</b>	30	PASS
134	5670	<b>21.75</b>	4.21	<b>25.96</b>	<b>394.457</b>	30	PASS

802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.43	1.10	14.53	28.379	22.46	PASS
44	5220	12.70	1.10	13.80	23.988	22.46	PASS
48	5240	<b>13.63</b>	1.10	<b>14.73</b>	<b>29.717</b>	22.46	PASS
52	5260	18.76	1.10	19.86	96.828	29.46	PASS
60	5300	<b>18.90</b>	1.10	<b>20.00</b>	<b>100.000</b>	29.45	PASS
64	5320	16.85	1.10	17.95	62.373	29.46	PASS
100	5500	16.90	1.20	18.10	64.565	29.46	PASS
116	5580	<b>18.77</b>	1.20	<b>19.97</b>	<b>99.312</b>	29.46	PASS
140	5700	<b>16.92</b>	1.20	<b>18.12</b>	<b>64.863</b>	29.46	PASS

802.11ac\_VHT20\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	<b>13.12</b>	1.100	<b>14.22</b>	<b>26.424</b>	22.46	PASS
44	5220	12.42	1.100	13.52	22.491	22.46	PASS
48	5240	12.97	1.100	14.07	25.527	22.45	PASS
52	5260	18.63	1.100	19.73	93.972	22.46	PASS
60	5300	<b>18.68</b>	1.100	<b>19.78</b>	<b>95.060</b>	22.45	PASS
64	5320	16.61	1.100	17.71	59.020	22.46	PASS
100	5500	16.60	1.200	17.80	60.256	22.46	PASS
116	5580	<b>18.57</b>	1.200	<b>19.77</b>	<b>94.842</b>	22.46	PASS
140	5700	<b>16.53</b>	1.200	<b>17.73</b>	<b>59.293</b>	22.46	PASS

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802.11ac\_VHT20\_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.31	4.11	20.42	110.154	22.46	PASS
44	5220	15.72	4.11	19.83	96.161	22.46	PASS
48	5240	<b>16.36</b>	4.11	<b>20.47</b>	<b>111.429</b>	22.45	PASS
52	5260	<b>21.89</b>	4.11	<b>26.00</b>	<b>398.107</b>	29.46	PASS
60	5300	21.80	4.11	25.91	389.942	29.45	PASS
64	5320	19.79	4.11	23.90	245.471	29.46	PASS
100	5500	19.76	4.21	23.97	249.459	29.46	PASS
116	5580	<b>21.88</b>	4.21	<b>26.09</b>	<b>406.443</b>	29.46	PASS
140	5700	<b>19.64</b>	4.21	<b>23.85</b>	<b>242.661</b>	29.46	PASS

802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>13.90</b>	1.10	<b>15.00</b>	<b>31.623</b>	23.01	PASS
46	5230	13.88	1.10	14.98	31.477	23.01	PASS
54	5270	<b>18.94</b>	1.10	<b>20.04</b>	<b>100.925</b>	30	PASS
62	5310	14.96	1.10	16.06	40.365	30	PASS
102	5510	15.93	1.20	17.13	51.642	30	PASS
110	5550	<b>18.91</b>	1.20	<b>20.11</b>	<b>102.565</b>	30	PASS
134	5670	<b>18.96</b>	1.20	<b>20.16</b>	<b>103.753</b>	30	PASS

802.11ac\_VHT40\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.69	1.100	14.79	30.130	23.01	PASS
46	5230	<b>13.73</b>	1.100	<b>14.83</b>	<b>30.409</b>	23.01	PASS
54	5270	<b>18.64</b>	1.100	<b>19.74</b>	<b>94.189</b>	30	PASS
62	5310	14.21	1.100	15.31	33.963	30	PASS
102	5510	15.60	1.200	16.80	47.863	30	PASS
110	5550	<b>18.57</b>	1.200	<b>19.77</b>	<b>94.842</b>	30	PASS
134	5670	<b>18.65</b>	1.200	<b>19.85</b>	<b>96.605</b>	30	PASS

802.11ac\_VHT40\_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>16.90</b>	4.11	<b>21.01</b>	<b>126.183</b>	23.01	PASS
46	5230	16.70	4.11	20.81	120.504	23.01	PASS
54	5270	<b>21.91</b>	4.11	<b>26.02</b>	<b>399.945</b>	30	PASS
62	5310	17.61	4.11	21.72	148.594	30	PASS
102	5510	18.65	4.21	22.86	193.197	30	PASS
110	5550	<b>21.92</b>	4.21	<b>26.13</b>	<b>410.204</b>	30	PASS
134	5670	<b>21.65</b>	4.21	<b>25.86</b>	<b>385.478</b>	30	PASS

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802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	13.78	1.10	14.88	30.761	23.01	PASS
58	5290	13.10	1.10	14.20	26.303	30	PASS
106	5530	13.91	1.20	15.11	32.434	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	13.67	1.100	14.77	29.992	23.01	PASS
58	5290	12.64	1.100	13.74	23.659	30	PASS
106	5530	13.61	1.200	14.81	30.269	30	PASS

802.11ac\_VHT80\_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	16.81	4.11	20.92	123.595	23.01	PASS
58	5290	16.06	4.11	20.17	103.992	30	PASS
106	5530	16.95	4.21	21.16	130.617	30	PASS

802.11ax\_HE20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	12.97	1.10	14.07	25.527	22.76	PASS
44	5220	full	13.53	1.10	14.63	29.040	22.77	PASS
48	5240	full	13.22	1.10	14.32	27.040	22.77	PASS
52	5260	full	18.83	1.10	19.93	98.401	29.77	PASS
60	5300	full	18.86	1.10	19.96	99.083	29.77	PASS
64	5320	full	16.88	1.10	17.98	62.806	29.77	PASS
100	5500	full	16.98	1.20	18.18	65.766	29.77	PASS
116	5580	full	18.96	1.20	20.16	103.753	29.77	PASS
140	5700	full	16.90	1.20	18.10	64.565	29.77	PASS

802.11ax\_HE20\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	12.81	1.100	13.91	24.604	22.76	PASS
44	5220	full	13.33	1.100	14.43	27.733	22.76	PASS
48	5240	full	12.46	1.100	13.56	22.699	22.76	PASS
52	5260	full	18.53	1.100	19.63	91.833	29.77	PASS
60	5300	full	18.54	1.100	19.64	92.045	29.77	PASS
64	5320	full	16.53	1.100	17.63	57.943	29.77	PASS
100	5500	full	16.72	1.200	17.92	61.944	29.76	PASS
116	5580	full	18.63	1.200	19.83	96.161	29.76	PASS
140	5700	full	16.89	1.200	18.09	64.417	29.77	PASS

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802.11ax\_HE20\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	15.93	4.11	20.04	100.925	22.76	PASS
44	5220	full	16.47	4.11	20.58	114.288	22.76	PASS
48	5240	full	15.87	4.11	19.98	99.541	22.76	PASS
52	5260	full	21.88	4.11	25.99	397.192	29.77	PASS
60	5300	full	<b>21.98</b>	4.11	<b>26.09</b>	<b>406.443</b>	29.77	PASS
64	5320	full	19.95	4.11	24.06	254.683	29.77	PASS
100	5500	full	19.78	4.21	23.99	250.611	29.76	PASS
116	5580	full	<b>21.82</b>	4.21	<b>26.03</b>	<b>400.867</b>	29.76	PASS
140	5700	full	19.99	4.21	24.20	263.027	29.77	PASS

802.11ax\_HE40\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	13.94	1.10	<b>15.04</b>	<b>31.915</b>	23.01	PASS
46	5230	full	13.96	1.10	15.06	32.063	23.01	PASS
54	5270	full	18.92	1.10	20.02	100.462	30	PASS
62	5310	full	14.32	1.10	15.42	34.834	30	PASS
102	5510	full	15.97	1.20	17.17	52.119	30	PASS
110	5550	full	18.95	1.20	20.15	103.514	30	PASS
134	5670	full	<b>18.98</b>	1.20	<b>20.18</b>	<b>104.232</b>	30	PASS

802.11ax\_HE40\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	13.53	1.100	<b>14.63</b>	<b>29.040</b>	23.01	PASS
46	5230	full	13.52	1.100	14.62	28.973	23.01	PASS
54	5270	full	18.70	1.100	19.80	95.499	30	PASS
62	5310	full	14.23	1.100	15.33	34.119	30	PASS
102	5510	full	15.51	1.200	16.71	46.881	30	PASS
110	5550	full	<b>18.77</b>	1.200	<b>19.97</b>	<b>99.312</b>	30	PASS
134	5670	full	18.55	1.200	19.75	94.406	30	PASS

802.11ax\_HE40\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	16.99	4.11	<b>21.10</b>	<b>128.825</b>	23.01	PASS
46	5230	full	16.96	4.11	21.07	127.938	23.01	PASS
54	5270	full	<b>21.97</b>	4.11	26.08	405.509	30	PASS
62	5310	full	17.29	4.11	21.40	138.038	30	PASS
102	5510	full	18.93	4.21	23.14	206.063	30	PASS
110	5550	full	21.79	4.21	26.00	398.107	30	PASS
134	5670	full	<b>21.90</b>	4.21	<b>26.11</b>	<b>408.319</b>	30	PASS

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## 802.11ax\_HE80\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	<b>13.94</b>	1.10	15.04	31.915	23.01	PASS
58	5290	full	13.24	1.10	14.34	27.164	30	PASS
106	5530	full	<b>13.93</b>	1.20	<b>15.13</b>	<b>32.584</b>	30	PASS

## 802.11ax\_HE80\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	<b>13.91</b>	1.100	15.01	31.696	23.01	PASS
58	5290	full	13.21	1.100	14.31	26.977	30	PASS
106	5530	full	<b>13.90</b>	1.200	<b>15.10</b>	<b>32.359</b>	30	PASS

## 802.11ax\_HE80\_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	<b>16.98</b>	4.11	<b>21.09</b>	<b>128.529</b>	23.01	PASS
58	5290	full	15.96	4.11	20.07	101.625	30	PASS
106	5530	full	<b>16.65</b>	4.21	<b>20.86</b>	<b>121.899</b>	30	PASS

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## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
	V	Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
		Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	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 directional gain of the antenna.				

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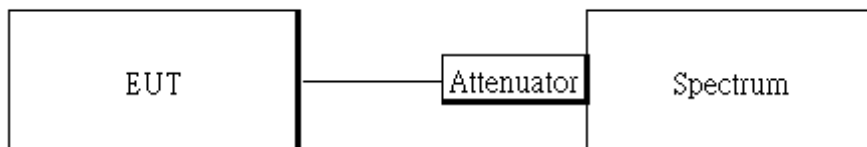
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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	V	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
	V	Other device	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

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.

### 10.2 Test Setup



### 10.3 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 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.

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In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.

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.

**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.**

**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.

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

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

$g_{j,k} = / 20 \log G_k$  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.

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### 10.4 Measurement Result

POWER DENSITY 802.11a 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)
5180	2.709	1.774	0.26	5.54		17.00 dBm/MHz	-11.46
5220	1.936	1.953	0.26	5.21		17.00 dBm/MHz	-11.79
5240	2.282	2.512	0.26	5.67		17.00 dBm/MHz	-11.33
5260	7.195	7.895	0.26	10.83		11.00 dBm/MHz	-0.17
5300	7.012	7.997	0.26	10.80		11.00 dBm/MHz	-0.20
5320	5.522	6.219	0.26	9.15		11.00 dBm/MHz	-1.85
5500	4.65	5.269	0.26	8.24		11.00 dBm/MHz	-2.76
5580	7.575	7.493	0.26	10.80		11.00 dBm/MHz	-0.20
5700	5.901	6.546	0.26	9.51		11.00 dBm/MHz	-1.49
5720 (U-NII 2C)	6.187	6.358	0.26	9.54		11.00 dBm/MHz	-1.46
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)
5720 (U-NII 3)	0.82	0.404	0.26	2.22	6.11	30.00 dBm/500kHz	-23.89
5745	1.383	1.11	0.26	2.22	6.74	30.00 dBm/500kHz	-23.26
5785	1.065	0.729	0.26	2.22	6.39	30.00 dBm/500kHz	-23.61
5825	0.868	1.919	0.26	2.22	6.92	30.00 dBm/500kHz	-23.08
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	Margin (dB)
5180	1.754	1.545	0.95	5.61		17.00 dBm/MHz	-11.39
5220	1.532	1.365	0.95	5.41		17.00 dBm/MHz	-11.59
5240	0.9	1.766	0.95	5.31		17.00 dBm/MHz	-11.69
5260	6.793	7.102	0.95	10.91		11.00 dBm/MHz	-0.09
5300	6.344	7.305	0.95	10.81		11.00 dBm/MHz	-0.19
5320	4.228	4.742	0.95	8.45		11.00 dBm/MHz	-2.55
5500	3.614	3.608	0.95	7.57		11.00 dBm/MHz	-3.43
5580	7.189	6.714	0.95	10.92		11.00 dBm/MHz	-0.08
5700	4.426	5.729	0.95	9.09		11.00 dBm/MHz	-1.91
5720 (U-NII 2C)	5.276	5.643	0.95	9.42		11.00 dBm/MHz	-1.58
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)
5720 (U-NII 3)	-0.527	0.046	0.95	2.22	5.95	30.00 dBm/500kHz	-24.05
5745	0.647	0.969	0.95	2.22	6.99	30.00 dBm/500kHz	-23.01
5785	0.074	-0.889	0.95	2.22	5.80	30.00 dBm/500kHz	-24.20
5825	-0.124	0.266	0.95	2.22	6.26	30.00 dBm/500kHz	-23.74

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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	0.075	-0.227	0.95	3.89		17.00 dBm/MHz	-13.11	
5230	-0.88	-0.48	0.95	3.28		17.00 dBm/MHz	-13.72	
5270	3.878	4.35	0.95	8.08		11.00 dBm/MHz	-2.92	
5310	-0.684	0.457	0.95	3.88		11.00 dBm/MHz	-7.12	
5510	-0.29	0.144	0.95	3.89		11.00 dBm/MHz	-7.11	
5550	4.128	3.788	0.95	7.92		11.00 dBm/MHz	-3.08	
5670	4.001	4.701	0.95	8.33		11.00 dBm/MHz	-2.67	
5710 (U-NII 2C)	0.358	1.894	0.95	5.15		11.00 dBm/MHz	-5.85	
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)	-5.29	-5.818	0.95	2.22	0.63	30.00 dBm/500kHz	-29.37	
5755	0.728	0.209	0.95	2.22	6.66	30.00 dBm/500kHz	-23.34	
5795	-0.138	-0.103	0.95	2.22	6.06	30.00 dBm/500kHz	-23.94	
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	-4.02	-3.833	0.96	0.04		17.00 dBm/MHz	-16.96	
5290	-5.432	-4.815	0.96	-1.14		11.00 dBm/MHz	-12.14	
5530	-4.634	-4.07	0.96	-0.37		11.00 dBm/MHz	-11.37	
5610	0.563	1.474	0.96	5.01		11.00 dBm/MHz	-5.99	
5690 (U-NII 2C)	-3.079	-2.854	0.96	1.01		11.00 dBm/MHz	-9.99	
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)	-10.533	-11.256	0.96	2.22	-4.69	30.00 dBm/500kHz	-34.69	
5775	-2.667	-3.416	0.96	2.22	3.16	30.00 dBm/500kHz	-26.84	
POWER DENSITY 802.11ax HE20 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	2.154	1.396	0.94	5.74		17.00 dBm/MHz	-11.26
5220	full	1.115	1.891	0.94	5.47		17.00 dBm/MHz	-11.53
5240	full	1.01	1.784	0.94	5.36		17.00 dBm/MHz	-11.64
5260	full	6.366	6.962	0.94	10.62		11.00 dBm/MHz	-0.38
5300	full	6.526	7.247	0.94	10.85		11.00 dBm/MHz	-0.15
5320	full	4.749	5.34	0.94	9.00		11.00 dBm/MHz	-2.00
5500	full	2.76	3.825	0.94	7.28		11.00 dBm/MHz	-3.72
5580	full	6.19	6.572	0.94	10.34		11.00 dBm/MHz	-0.66
5700	full	4.615	5.769	0.94	9.18		11.00 dBm/MHz	-1.82
5720 (U-NII 2C)	full	5.314	5.371	0.94	9.29		11.00 dBm/MHz	-1.71
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	0.299	-0.562	0.94	2.22	6.06	30.00 dBm/500kHz	-23.94
5745	full	0.69	-0.46	0.94	2.22	6.32	30.00 dBm/500kHz	-23.68
5785	full	0.044	-0.228	0.94	2.22	6.08	30.00 dBm/500kHz	-23.92
5825	full	0.725	0.737	0.94	2.22	6.90	30.00 dBm/500kHz	-23.10

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POWER DENSITY 802.11ax HE40 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	-1.103	-0.927	0.94	2.94		17.00 dBm/MHz	-14.06
5230	full	-0.423	-0.249	0.94	3.62		17.00 dBm/MHz	-13.38
5270	full	3.933	4.557	0.94	8.21		11.00 dBm/MHz	-2.79
5310	full	-1.107	-0.343	0.94	3.24		11.00 dBm/MHz	-7.76
5510	full	-1.062	0.303	0.94	3.62		11.00 dBm/MHz	-7.38
5550	full	3.124	2.883	0.94	6.96		11.00 dBm/MHz	-4.04
5670	full	3.714	4.513	0.94	8.08		11.00 dBm/MHz	-2.92
5710 (U-NII 2C)	full	1.074	2.097	0.94	5.57		11.00 dBm/MHz	-5.43
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	-5.244	-4.96	0.94	2.22	1.07	30.00 dBm/500kHz	-28.93
5755	full	0.685	-0.177	0.94	2.22	6.45	30.00 dBm/500kHz	-23.55
5795	full	-0.572	-0.188	0.94	2.22	5.79	30.00 dBm/500kHz	-24.21
POWER DENSITY 802.11ax HE80 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	-3.219	-3.48	0.95	0.61		17.00 dBm/MHz	-16.39
5290	full	-5.815	-4.721	0.95	-1.27		11.00 dBm/MHz	-12.27
5530	full	-4.924	-4.719	0.95	-0.86		11.00 dBm/MHz	-11.86
5610	full	0.763	0.372	0.95	4.53		11.00 dBm/MHz	-6.47
5690 (U-NII 2C)	full	-3.601	-3.514	0.95	0.40		11.00 dBm/MHz	-10.60
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	-10.768	-12.034	0.95	2.22	-5.17	30.00 dBm/500kHz	-35.17
5775	full	-2.893	-3.449	0.95	2.22	3.02	30.00 dBm/500kHz	-26.98

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EIRP spectral density 802.11a MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5180	5.54	4.11	9.65	10	-0.35	
5220	5.21	4.11	9.32	10	-0.68	
5240	5.67	4.11	9.78	10	-0.22	
EIRP spectral density 802.11n HT20 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5180	5.61	4.11	9.72	10	-0.28	
5220	5.41	4.11	9.52	10	-0.48	
5240	5.31	4.11	9.42	10	-0.58	
EIRP spectral density 802.11n HT40 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5190	3.89	4.11	8.00	10	-2.00	
5230	3.28	4.11	7.39	10	-2.61	
EIRP spectral density 802.11ac VHT80 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5210	0.04	4.11	4.15	10	-5.85	
EIRP spectral density 802.11ax HE20 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	full	5.74	4.11	9.85	10	-0.15
5220	full	5.47	4.11	9.58	10	-0.42
5240	full	5.36	4.11	9.47	10	-0.53

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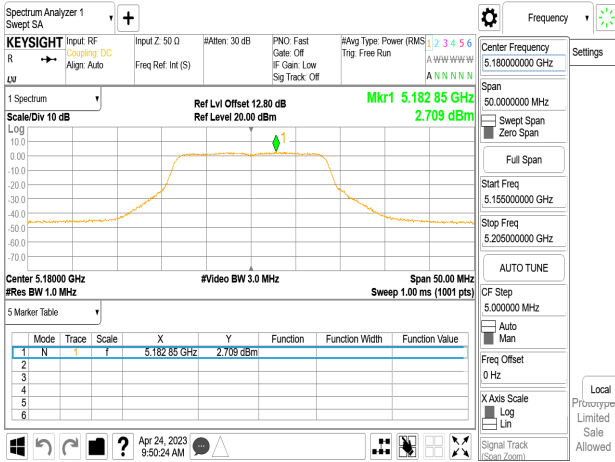
EIRP spectral density 802.11ax HE40 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	full	2.94	4.11	7.05	10	-2.95
5230	full	3.62	4.11	7.73	10	-2.27
EIRP spectral density 802.11ax HE80 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	full	0.61	4.11	4.72	10	-5.28

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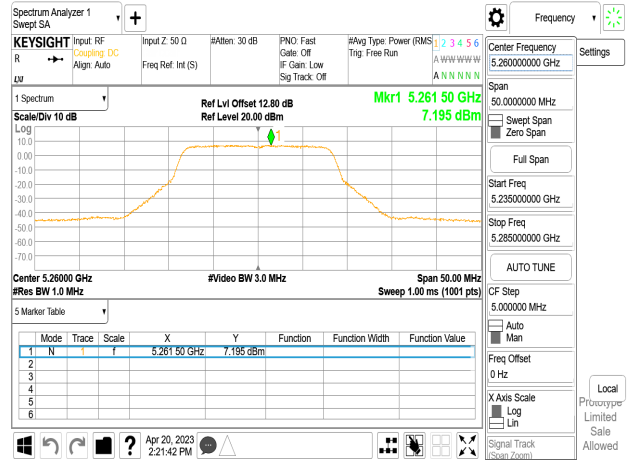
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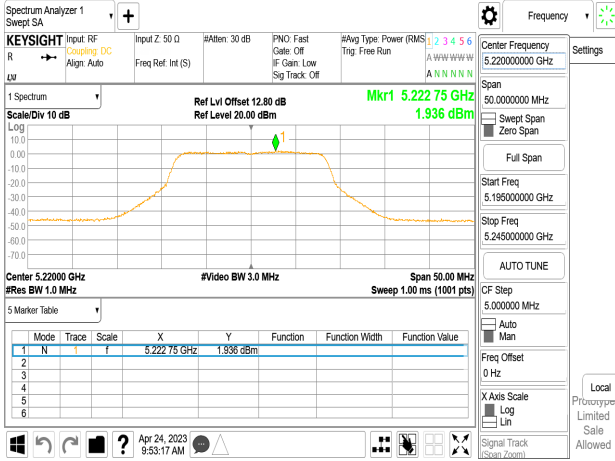
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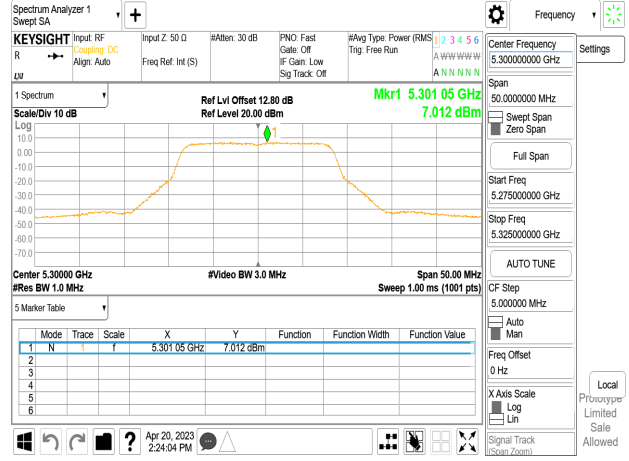
802.11a\_20MHz\_Chain0\_5260MHz



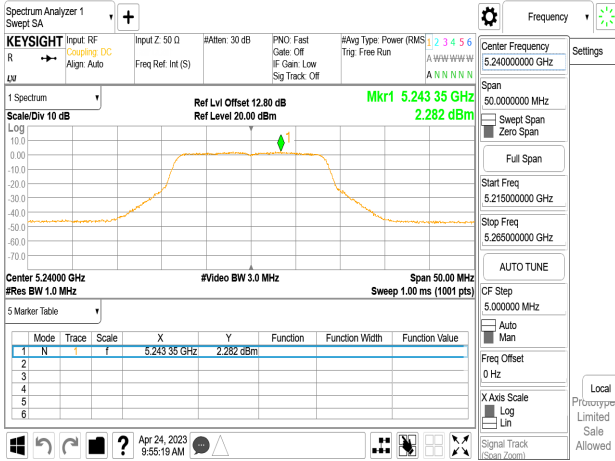
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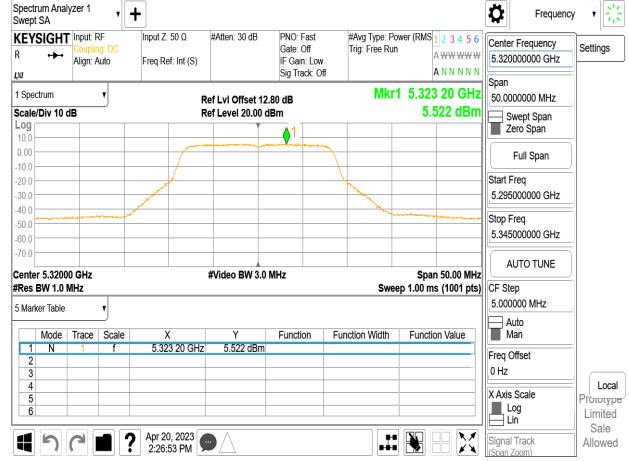
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802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5320MHz



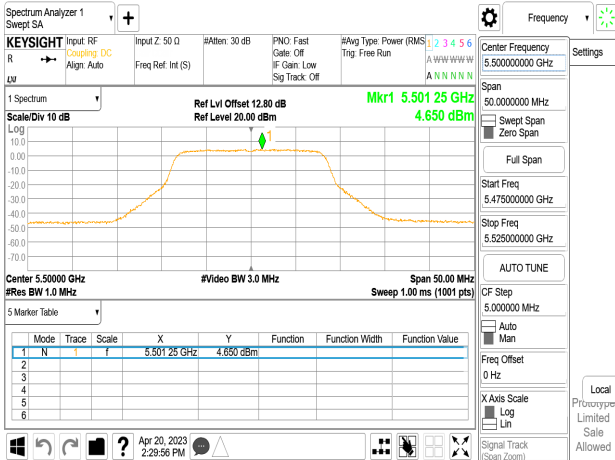
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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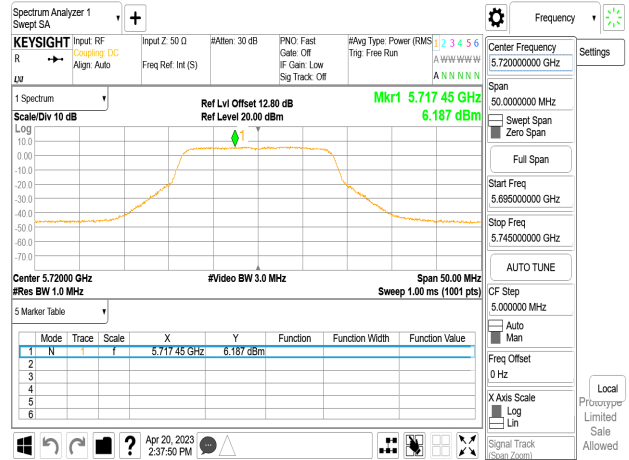
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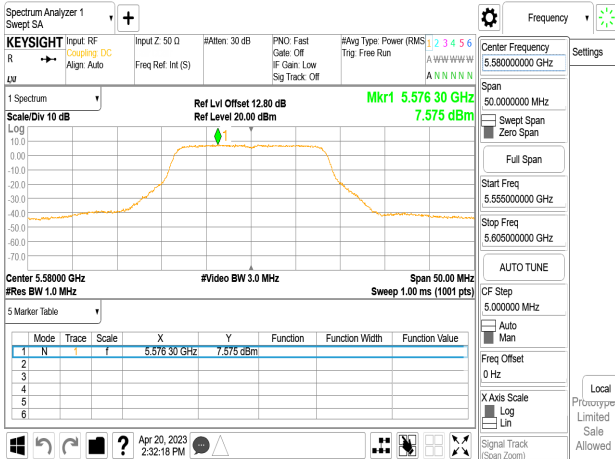
802.11a\_20MHz\_Chain0\_5500MHz



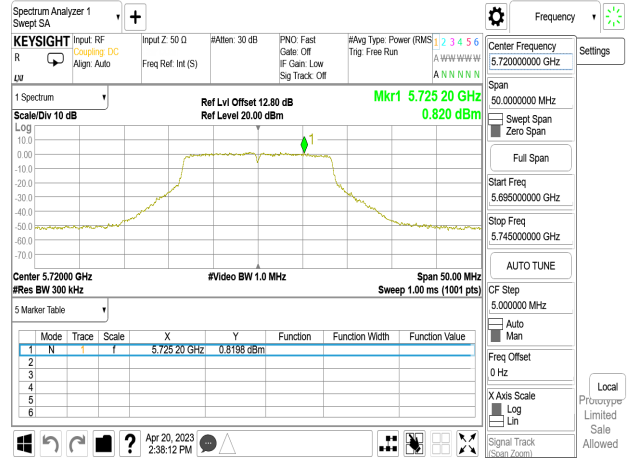
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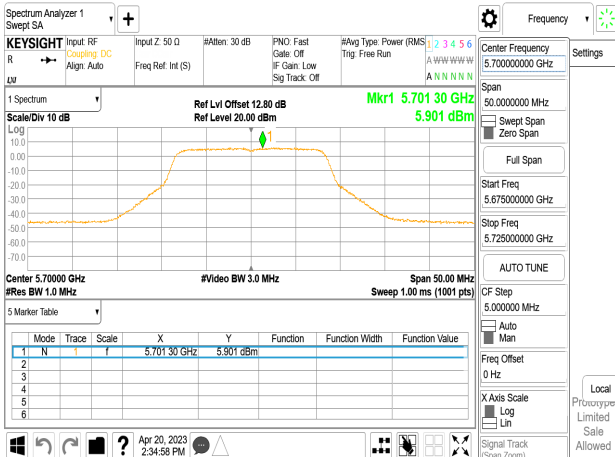
802.11a\_20MHz\_Chain0\_5580MHz



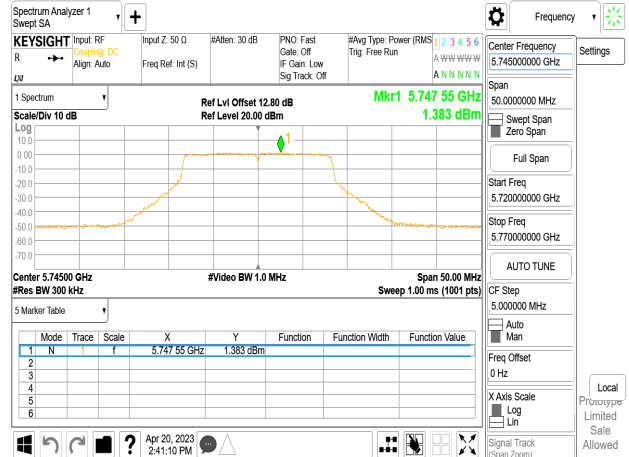
802.11a\_20MHz\_Chain0\_5720MHz\_UNII\_3



802.11a\_20MHz\_Chain0\_5700MHz



802.11a\_20MHz\_Chain0\_5745MHz



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