

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.

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9.1.2 FCC

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
		Outdoor 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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9.1.3 ISED

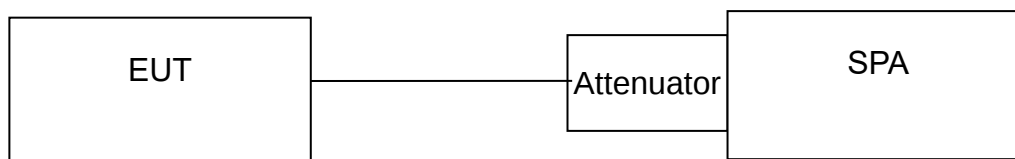
FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	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	$-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$ $-13 -0.716 (\theta -8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$ $-35.9 -1.22 (\theta -40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$	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



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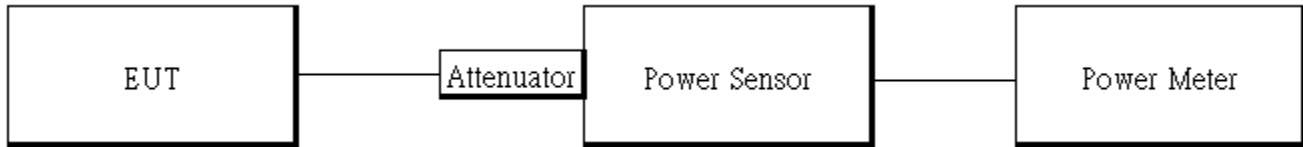
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9.2.2 Output Power



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:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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.

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

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where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 1/20$ 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.

9.4 Duty Cycle Measurement Result

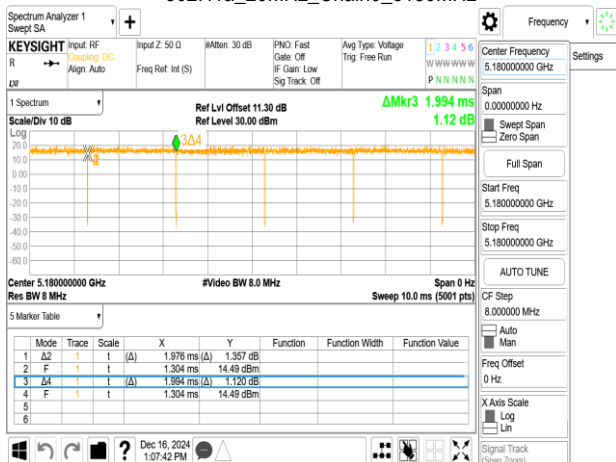
Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a		99.10	0.04	0.51	0.01
802.11n_20		99.67	0.01	0.18	0.01
802.11ac_20		99.71	0.01	0.18	0.01
802.11n_40		99.67	0.01	0.18	0.01
802.11ac_40		99.67	0.01	0.18	0.01
802.11ac_80		99.71	0.01	0.18	0.01
802.11ac_160		99.71	0.01	0.18	0.01
Mode	RU Config	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	99.71	0.01	0.18	0.01
802.11ax_40	Full	99.71	0.01	0.18	0.01
802.11ax_80	Full	99.67	0.01	0.18	0.01
802.11ax_160	Full	99.71	0.01	0.18	0.01
802.11be_20	Full	99.67	0.01	0.18	0.01
802.11be_40	Full	99.67	0.01	0.18	0.01
802.11be_80	Full	99.67	0.01	0.18	0.01
802.11be_160	Full	99.67	0.01	0.18	0.01

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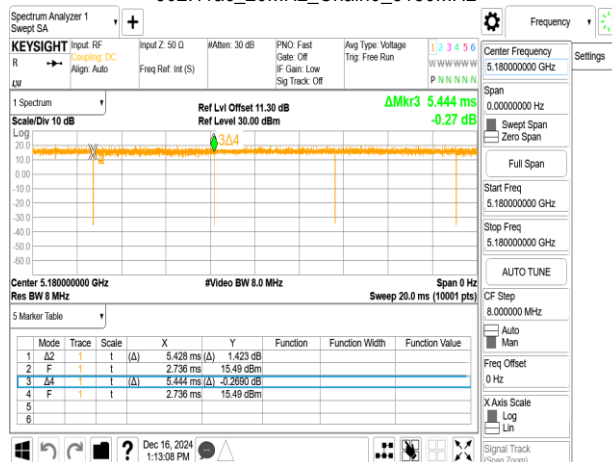
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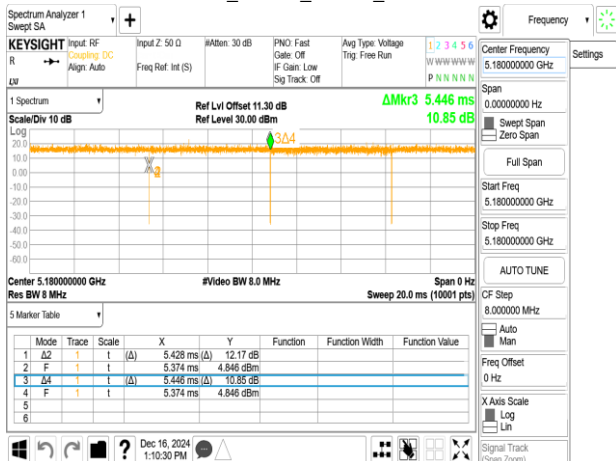
802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



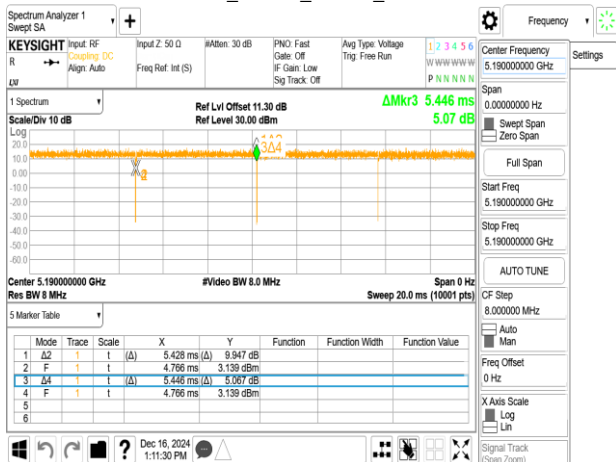
802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz

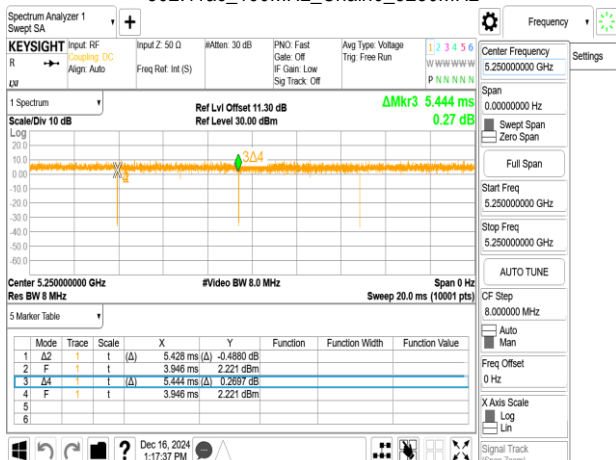


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802.11ac_160MHz_Chain0_5250MHz



802.11ax_80MHz_Chain0_5210MHz



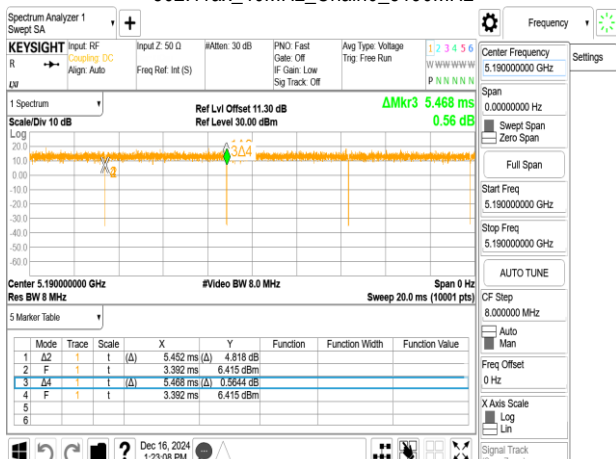
802.11ax_20MHz_Chain0_5180MHz



802.11ax_160MHz_Chain0_5250MHz



802.11ax_40MHz_Chain0_5190MHz



802.11be_20MHz_Chain0_5180MHz

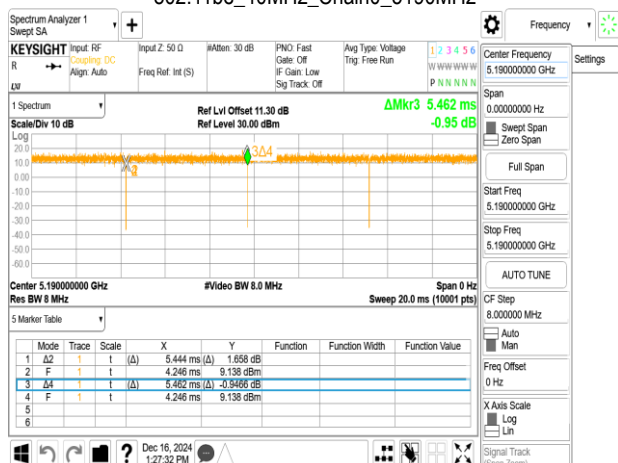


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802.11be_40MHz_Chain0_5190MHz



802.11be_80MHz_Chain0_5210MHz



802.11be_160MHz_Chain0_5250MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	19	18.85	18.90	154.335	21.88	30	PASS
44	5220	6	19	18.83	18.58	148.469	21.72	30	PASS
48	5240	6	19	18.86	18.69	150.848	21.79	30	PASS
52	5260	6	15	15.02	14.91	62.732	17.97	23.98	PASS
60	5300	6	15.5	15.45	15.35	69.340	18.41	23.98	PASS
64	5320	6	15.5	15.46	15.26	68.718	18.37	23.98	PASS
100	5500	6	15	14.75	15.01	61.539	17.89	23.98	PASS
116	5580	6	15.5	15.15	15.39	67.317	18.28	23.98	PASS
140	5700	6	15	14.59	14.81	59.033	17.71	23.98	PASS
144	5720(U-NII 2C)	6	15	13.29	13.47	43.583	16.39	23.03	PASS
144	5720 (U-NII 3)	6	15	9.01	9.22	16.336	12.13	30	PASS
149	5745	6	18.5	18.26	18.03	130.499	21.16	30	PASS
157	5785	6	21	20.70	20.76	236.574	23.74	30	PASS
165	5825	6	20	19.72	19.41	181.023	22.58	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	19	18.89	18.84	154.160	21.88	30	PASS
44	5220	MCS0	19	18.75	18.66	148.590	21.72	30	PASS
48	5240	MCS0	18.5	18.17	18.10	130.311	21.15	30	PASS
52	5260	MCS0	15.5	15.46	15.24	68.644	18.37	23.98	PASS
60	5300	MCS0	16	15.84	15.64	75.090	18.76	23.98	PASS
64	5320	MCS0	15.5	15.43	15.07	67.118	18.27	23.98	PASS
100	5500	MCS0	14.5	14.24	14.32	53.639	17.29	23.98	PASS
116	5580	MCS0	16	15.64	15.67	73.615	18.67	23.98	PASS
140	5700	MCS0	15.5	15.04	15.29	65.788	18.18	23.98	PASS
144	5720(U-NII 2C)	MCS0	15.5	13.76	13.95	48.621	16.87	23.06	PASS
144	5720 (U-NII 3)	MCS0	15.5	9.54	9.80	18.536	12.68	30	PASS
149	5745	MCS0	18.5	18.16	17.93	127.679	21.06	30	PASS
157	5785	MCS0	21	20.69	20.75	236.307	23.73	30	PASS
165	5825	MCS0	20	19.68	19.42	180.555	22.57	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	15	15.00	14.99	63.236	18.01	30	PASS
46	5230	MCS0	19.5	19.47	19.26	173.018	22.38	30	PASS
54	5270	MCS0	18.5	18.50	18.24	137.613	21.39	23.98	PASS
62	5310	MCS0	15.5	15.50	15.45	70.627	18.49	23.98	PASS
102	5510	MCS0	18	18.00	17.99	126.173	21.01	23.98	PASS
110	5550	MCS0	18.5	18.49	18.28	138.068	21.40	23.98	PASS
134	5670	MCS0	18.5	18.46	18.30	137.892	21.40	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	17.16	17.03	102.477	20.11	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	10.16	9.58	19.448	12.89	30	PASS
151	5755	MCS0	19	18.90	18.75	152.767	21.84	30	PASS
159	5795	MCS0	21.5	21.32	21.43	274.790	24.39	30	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	19	18.82	18.76	151.461	21.80	30	PASS
44	5220	MCS0	19	18.74	18.64	148.020	21.70	30	PASS
48	5240	MCS0	18.5	18.15	18.05	129.217	21.11	30	PASS
52	5260	MCS0	15.5	15.39	15.19	67.672	18.30	23.98	PASS
60	5300	MCS0	16	15.82	15.60	74.547	18.72	23.98	PASS
64	5320	MCS0	15.5	15.39	15.06	66.697	18.24	23.98	PASS
100	5500	MCS0	14.5	14.20	14.29	53.188	17.26	23.98	PASS
116	5580	MCS0	16	15.59	15.63	72.828	18.62	23.98	PASS
140	5700	MCS0	15.5	15.02	15.20	64.921	18.12	23.98	PASS
144	5720(U-NII 2C)	MCS0	15.5	13.73	13.87	47.985	16.81	23.06	PASS
144	5720 (U-NII 3)	MCS0	15.5	9.51	9.72	18.293	12.62	30	PASS
149	5745	MCS0	18.5	18.12	17.91	126.741	21.03	30	PASS
157	5785	MCS0	21	20.66	20.72	234.586	23.70	30	PASS
165	5825	MCS0	20	19.65	19.36	178.662	22.52	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	15	14.96	14.98	62.873	17.98	30	PASS
46	5230	MCS0	19.5	19.43	19.24	171.818	22.35	30	PASS
54	5270	MCS0	18.5	18.42	18.16	135.101	21.31	23.98	PASS
62	5310	MCS0	15.5	15.42	15.44	69.898	18.44	23.98	PASS
102	5510	MCS0	18	17.92	17.89	123.586	20.92	23.98	PASS
110	5550	MCS0	18.5	18.46	18.22	136.657	21.36	23.98	PASS
134	5670	MCS0	18.5	18.42	18.24	136.320	21.35	23.98	PASS
142	5710(U-NII 2C)	MCS0	18	17.13	16.95	101.199	20.05	23.98	PASS
142	5710 (U-NII 3)	MCS0	18	10.13	9.50	19.211	12.84	30	PASS
151	5755	MCS0	19	18.87	18.68	151.032	21.79	30	PASS
159	5795	MCS0	21.5	21.28	21.32	270.066	24.31	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	14.5	14.25	14.28	53.431	17.28	30	PASS
58	5290	MCS0	14.5	14.40	14.37	54.928	17.40	23.98	PASS
106	5530	MCS0	17.5	17.19	17.10	103.709	20.16	23.98	PASS
122	5610	MCS0	21	20.59	20.56	228.451	23.59	23.98	PASS
138	5690(U-NII 2C)	MCS0	18.5	17.68	17.54	115.370	20.62	23.98	PASS
138	5690 (U-NII 3)	MCS0	18.5	8.93	8.85	15.499	11.90	30	PASS
155	5775	MCS0	19.5	19.49	19.28	173.747	22.40	30	PASS

802.11ac_VHT160_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
50	5250	MCS0	13.5	13.46	13.50	44.596	16.49	23.98	PASS
114	5570	MCS0	14	13.94	14.00	49.923	16.98	23.98	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	18.5	18.22	18.35	134.847	21.30	30	PASS
44	5220	MCS0	full	19.5	19.37	19.14	168.633	22.27	30	PASS
48	5240	MCS0	full	19	18.95	18.68	152.406	21.83	30	PASS
52	5260	MCS0	full	16	15.83	15.92	77.413	18.89	23.98	PASS
60	5300	MCS0	full	16	15.95	15.75	76.985	18.86	23.98	PASS
64	5320	MCS0	full	16	15.86	15.68	75.576	18.78	23.98	PASS
100	5500	MCS0	full	15.5	15.30	15.59	70.151	18.46	23.98	PASS
116	5580	MCS0	full	15.5	15.25	15.42	68.371	18.35	23.98	PASS
140	5700	MCS0	full	15.5	15.19	15.42	67.912	18.32	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	15.5	13.82	14.09	49.770	16.97	23.03	PASS
144	5720 (U-NII 3)	MCS0	full	15.5	9.55	9.83	18.621	12.70	30	PASS
149	5745	MCS0	full	18	17.92	17.57	119.164	20.76	30	PASS
157	5785	MCS0	full	21	20.76	20.71	237.027	23.75	30	PASS
165	5825	MCS0	full	20.5	20.14	19.99	203.168	23.08	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	15	14.94	14.98	62.704	17.97	30	PASS
46	5230	MCS0	full	20.5	20.20	20.28	211.500	23.25	30	PASS
54	5270	MCS0	full	18.5	18.20	18.06	130.121	21.14	23.98	PASS
62	5310	MCS0	full	16	15.86	15.64	75.237	18.76	23.98	PASS
102	5510	MCS0	full	18.5	18.31	18.28	135.143	21.31	23.98	PASS
110	5550	MCS0	full	19	18.86	18.80	135.143	21.84	23.98	PASS
134	5670	MCS0	full	18.5	18.26	18.10	131.633	21.19	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	17.49	17.39	110.874	20.45	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	9.96	9.83	19.539	12.91	30	PASS
151	5755	MCS0	full	19.5	19.16	19.04	162.679	22.11	30	PASS
159	5795	MCS0	full	21.5	21.09	21.13	258.402	24.12	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	15	14.62	14.80	59.232	17.73	30	PASS
58	5290	MCS0	full	15.5	15.39	15.19	67.699	18.31	23.98	PASS
106	5530	MCS0	full	18.5	18.18	18.13	130.910	21.17	23.98	PASS
122	5610	MCS0	full	21	20.62	20.56	229.338	23.60	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19.5	18.87	18.65	150.379	21.77	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19.5	8.80	9.24	15.974	12.03	30	PASS
155	5775	MCS0	full	20	19.69	19.72	187.054	22.72	30	PASS

802.11ax_HE160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	14	14.16	14.08	51.678	17.13	23.98	PASS
114	5570	MCS0	full	14.5	14.38	14.42	55.118	17.41	23.98	PASS

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802.11be_EHT20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	18.5	18.30	18.42	137.248	21.38	30	PASS
44	5220	MCS0	full	19.5	19.40	19.18	170.061	22.31	30	PASS
48	5240	MCS0	full	19	18.98	18.71	153.524	21.86	30	PASS
52	5260	MCS0	full	16	15.88	15.96	78.250	18.93	23.98	PASS
60	5300	MCS0	full	16	15.99	15.80	77.816	18.91	23.98	PASS
64	5320	MCS0	full	16	15.90	15.72	76.306	18.83	23.98	PASS
100	5500	MCS0	full	15.5	15.36	15.62	70.902	18.51	23.98	PASS
116	5580	MCS0	full	15.5	15.29	15.50	69.357	18.41	23.98	PASS
140	5700	MCS0	full	15.5	15.24	15.49	68.888	18.38	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	15.5	13.88	14.12	50.248	17.01	23.03	PASS
144	5720 (U-NII 3)	MCS0	full	15.5	9.60	9.86	18.799	12.74	30	PASS
149	5745	MCS0	full	18	17.96	17.60	120.182	20.80	30	PASS
157	5785	MCS0	full	21	20.79	20.75	239.040	23.78	30	PASS
165	5825	MCS0	full	20.5	20.20	20.03	205.612	23.13	30	PASS

802.11be_EHT40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	15	14.98	15.00	63.164	18.00	30	PASS
46	5230	MCS0	full	20.5	20.24	20.32	213.542	23.29	30	PASS
54	5270	MCS0	full	18.5	18.25	18.09	131.383	21.19	23.98	PASS
62	5310	MCS0	full	16	15.92	15.67	76.058	18.81	23.98	PASS
102	5510	MCS0	full	18.5	18.37	18.33	136.921	21.36	23.98	PASS
110	5550	MCS0	full	19	18.90	18.82	153.987	21.87	23.98	PASS
134	5670	MCS0	full	18.5	18.32	18.15	133.367	21.25	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	17.53	17.44	112.072	20.49	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	10.01	9.88	19.750	12.96	30	PASS
151	5755	MCS0	full	19.5	19.20	19.06	163.878	22.15	30	PASS
159	5795	MCS0	full	21.5	21.12	21.15	259.997	24.15	30	PASS

802.11be_EHT80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	15	14.70	14.86	60.192	17.80	30	PASS
58	5290	MCS0	full	15.5	15.43	15.25	68.479	18.36	23.98	PASS
106	5530	MCS0	full	18.5	18.23	18.14	131.822	21.20	23.98	PASS
122	5610	MCS0	full	21	20.69	20.54	230.691	23.63	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19.5	18.93	18.72	152.643	21.84	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19.5	8.86	9.31	16.215	12.10	30	PASS
155	5775	MCS0	full	20	19.73	19.75	188.567	22.75	30	PASS

802.11be_EHT160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	14	14.19	14.12	52.117	17.17	23.98	PASS
114	5570	MCS0	full	14.5	14.43	14.50	55.973	17.48	23.98	PASS

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9.5.2 ISD Conducted output power and EIRP

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	9	9.01	9.03	15.957	12.03	30	PASS
44	5220	6	9	9.03	8.86	15.687	11.96	30	PASS
48	5240	6	9	8.98	8.81	15.507	11.91	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	9	8.98	8.99	15.848	12.00	30	PASS
44	5220	MCS0	9	8.96	8.87	15.595	11.93	30	PASS
48	5240	MCS0	9	8.95	8.77	15.401	11.88	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	12	11.98	11.96	31.511	14.98	30	PASS
46	5230	MCS0	12	12.00	11.95	31.548	14.99	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	9	8.96	8.98	15.787	11.98	30	PASS
44	5220	MCS0	9	8.92	8.83	15.446	11.89	30	PASS
48	5240	MCS0	9	8.92	8.74	15.289	11.84	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	12	11.95	11.92	31.258	14.95	30	PASS
46	5230	MCS0	12	11.97	11.89	31.224	14.94	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	14.5	14.25	14.28	53.431	17.28	30	PASS

802.11ac_VHT160_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
50	5250	MCS0	13.5	13.46	13.50	44.596	16.49	23.98	PASS

802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	9	8.85	8.92	15.481	11.90	30	PASS
44	5220	MCS0	full	9	8.93	8.85	15.499	11.90	30	PASS
48	5240	MCS0	full	9	8.97	8.89	15.643	11.94	30	PASS

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802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	12	11.92	11.95	31.246	14.95	30	PASS
46	5230	MCS0	full	12	11.84	11.89	30.747	14.88	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	15	14.62	14.80	59.232	17.73	30	PASS

802.11be_EHT20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	9	8.90	8.99	15.703	11.96	30	PASS
44	5220	MCS0	full	9	8.99	8.89	15.685	11.95	30	PASS
48	5240	MCS0	full	9	9.00	8.92	15.757	11.97	30	PASS

802.11be_EHT40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	12	11.95	11.99	31.512	14.98	30	PASS
46	5230	MCS0	full	12	11.85	11.93	30.937	14.90	30	PASS

802.11be_EHT80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	15	14.70	14.86	60.192	17.80	30	PASS

802.11be_EHT160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	14	14.19	14.12	52.117	17.17	23.98	PASS

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802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.03	3.23	33.574	15.26	22.24	PASS
44	5220	11.96	3.23	33.037	15.19	22.24	PASS
48	5240	11.91	3.23	32.659	15.14	22.23	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.00	3.23	33.343	15.23	22.53	PASS
44	5220	11.93	3.23	32.810	15.16	22.52	PASS
48	5240	11.88	3.23	32.434	15.11	22.52	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	14.98	3.23	66.222	18.21	23.01	PASS
46	5230	14.99	3.23	66.374	18.22	23.01	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.98	3.23	33.189	15.21	22.53	PASS
44	5220	11.89	3.23	32.509	15.12	22.52	PASS
48	5240	11.84	3.23	32.137	15.07	22.52	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	14.95	3.23	65.766	18.18	23.01	PASS
46	5230	14.94	3.23	65.615	18.17	23.01	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	17.28	3.23	112.460	20.51	23.01	PASS

802.11ac_VHT160_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
50	5250	16.49	3.91	109.648	20.40	23.01	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	11.90	3.23	32.584	15.13	23.01	PASS
44	5220	full	11.90	3.23	32.584	15.13	23.01	PASS
48	5240	full	11.94	3.23	32.885	15.17	23.01	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	14.95	3.23	65.766	18.18	23.01	PASS
46	5230	full	14.88	3.23	64.714	18.11	23.01	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	17.73	3.23	124.738	20.96	23.01	PASS

802.11ax_HE160_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
50	5250	full	17.13	3.91	127.057	21.04	23.01	PASS

802.11be_EHT20_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	11.96	3.23	33.037	15.19	22.79	PASS
44	5220	full	11.95	3.23	32.961	15.18	22.8	PASS
48	5240	full	11.97	3.23	33.113	15.20	22.8	PASS

802.11be_EHT40_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	14.98	3.23	66.222	18.21	23.01	PASS
46	5230	full	14.90	3.23	65.013	18.13	23.01	PASS

802.11be_EHT80_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	17.80	3.23	126.765	21.03	23.01	PASS

802.11be_EHT160_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
50	5250	full	17.17	3.91	128.233	21.08	23.01	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

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 Ponit	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 direction-al gain of the antenna.				

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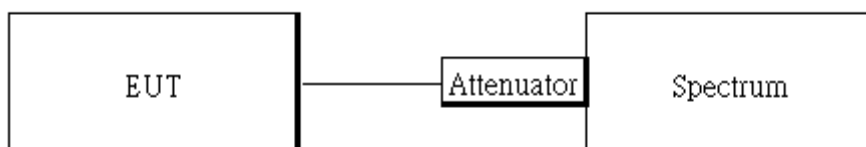
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10.2 ISED Standard

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
5470-5600 and 5650-5725	V	All	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.

10.3 Test Setup



10.4 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.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
- Use the cursor on spectrum to peak search the highest level of trace

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6. (1)Duty cycle $\geq 98\%$: Record the max. reading.
(2)Duty cycle $< 98\%$: Record the max. reading and add $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add $10 \log(N)$ technical is reported 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:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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

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

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

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

$g_{j,k}$ = $10 \log G_k$ 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.

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10.5 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	7.903	7.753	0.00	10.84		16.77 dBm/MHz	-5.93
5220	6.346	7.605	0.00	10.03		16.77 dBm/MHz	-6.74
5240	6.136	7.721	0.00	10.01		16.77 dBm/MHz	-6.76
5260	3.814	3.684	0.00	6.76		10.08 dBm/MHz	-3.32
5300	3.809	3.820	0.00	6.82		10.08 dBm/MHz	-3.26
5320	4.006	3.966	0.00	7.00		10.08 dBm/MHz	-3.08
5500	3.087	3.459	0.00	6.29		9.71 dBm/MHz	-3.42
5580	3.540	3.513	0.00	6.54		9.71 dBm/MHz	-3.17
5700	3.233	3.497	0.00	6.38		9.71 dBm/MHz	-3.33
5720 (U-NII 2C)	3.188	3.453	0.00	6.33		9.71 dBm/MHz	-3.38
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)	-2.062	-1.766	0.00	2.22	3.32	29.02 dBm/500kHz	-25.70
5745	1.375	1.948	0.00	2.22	6.90	29.02 dBm/500kHz	-22.12
5785	3.497	4.325	0.00	2.22	9.16	29.02 dBm/500kHz	-19.86
5825	3.028	3.137	0.00	2.22	8.31	29.02 dBm/500kHz	-20.71
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	7.396	7.840	0.00	10.63		16.77 dBm/MHz	-6.14
5220	6.118	7.291	0.00	9.75		16.77 dBm/MHz	-7.02
5240	5.452	7.056	0.00	9.34		16.77 dBm/MHz	-7.43
5260	4.105	3.683	0.00	6.91		10.08 dBm/MHz	-3.17
5300	4.057	3.877	0.00	6.98		10.08 dBm/MHz	-3.10
5320	1.747	3.583	0.00	5.77		10.08 dBm/MHz	-4.31
5500	1.891	3.015	0.00	5.50		9.71 dBm/MHz	-4.21
5580	3.762	3.531	0.00	6.66		9.71 dBm/MHz	-3.05
5700	3.239	3.866	0.00	6.57		9.71 dBm/MHz	-3.14
5720 (U-NII 2C)	3.625	3.479	0.00	6.56		9.71 dBm/MHz	-3.15
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)	-1.852	-1.528	0.00	2.22	3.54	29.02 dBm/500kHz	-25.48
5745	1.389	1.398	0.00	2.22	6.62	29.02 dBm/500kHz	-22.40
5785	3.518	3.837	0.00	2.22	8.91	29.02 dBm/500kHz	-20.11
5825	2.321	2.801	0.00	2.22	7.80	29.02 dBm/500kHz	-21.22

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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	0.370	0.667	0.00	3.53		16.77 dBm/MHz	-13.24
5230	3.490	5.252	0.00	7.47		16.77 dBm/MHz	-9.30
5270	3.831	3.626	0.00	6.74		10.08 dBm/MHz	-3.34
5310	0.782	0.528	0.00	3.67		10.08 dBm/MHz	-6.41
5510	2.902	2.973	0.00	5.95		9.71 dBm/MHz	-3.76
5550	3.236	2.974	0.00	6.12		9.71 dBm/MHz	-3.59
5670	3.520	3.675	0.00	6.61		9.71 dBm/MHz	-3.10
5710 (U-NII 2C)	3.005	3.356	0.00	6.19		9.71 dBm/MHz	-3.52
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)	-2.270	-2.508	0.00	2.22	2.84	29.02 dBm/500kHz	-26.18
5755	-1.199	-0.893	0.00	2.22	4.19	29.02 dBm/500kHz	-24.83
5795	0.869	1.485	0.00	2.22	6.42	29.02 dBm/500kHz	-22.60
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	-3.491	-3.189	0.00	-0.33		16.77 dBm/MHz	-17.10
5290	-3.537	-3.345	0.00	-0.43		10.08 dBm/MHz	-10.51
5530	-1.228	-1.199	0.00	1.80		9.71 dBm/MHz	-7.91
5610	2.883	2.831	0.00	5.87		9.71 dBm/MHz	-3.84
5690 (U-NII 2C)	0.160	0.577	0.00	3.38		9.71 dBm/MHz	-6.33
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)	-5.140	-5.431	0.00	2.22	-0.05	29.02 dBm/500kHz	-29.07
5775	-4.168	-3.868	0.00	2.22	1.21	29.02 dBm/500kHz	-27.81
POWER DENSITY 802.11ac VHT160 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)
5250	-7.255	-6.862	0.00	-4.04		10.08 dBm/MHz	-14.12
5570	-7.074	-6.471	0.00	-3.75		9.71 dBm/MHz	-13.46

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POWER DENSITY 802.11b EHT20 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	6.915	7.283	0.00	10.11		16.77 dBm/MHz	-6.66
5220	full	6.861	7.785	0.00	10.36		16.77 dBm/MHz	-6.41
5240	full	5.876	7.579	0.00	9.82		16.77 dBm/MHz	-6.95
5260	full	4.001	3.984	0.00	7.00		10.08 dBm/MHz	-3.08
5300	full	3.861	3.929	0.00	6.91		10.08 dBm/MHz	-3.17
5320	full	3.898	3.764	0.00	6.84		10.08 dBm/MHz	-3.24
5500	full	3.305	3.837	0.00	6.59		9.71 dBm/MHz	-3.12
5580	full	3.231	3.608	0.00	6.43		9.71 dBm/MHz	-3.28
5700	full	3.429	3.855	0.00	6.66		9.71 dBm/MHz	-3.05
5720 (U-NII 2C)	full	3.505	3.692	0.00	6.61		9.71 dBm/MHz	-3.10
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	-1.737	-1.380	0.00	2.22	3.68	29.02 dBm/500kHz	-25.34
5745	full	1.099	1.011	0.00	2.22	6.29	29.02 dBm/500kHz	-22.73
5785	full	3.933	3.934	0.00	2.22	9.16	29.02 dBm/500kHz	-19.86
5825	full	3.181	3.252	0.00	2.22	8.45	29.02 dBm/500kHz	-20.57
POWER DENSITY 802.11b EHT40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	0.348	0.780	0.00	3.58		16.77 dBm/MHz	-13.19
5230	full	4.230	6.023	0.00	8.23		16.77 dBm/MHz	-8.54
5270	full	3.577	3.448	0.00	6.52		10.08 dBm/MHz	-3.56
5310	full	1.206	0.614	0.00	3.93		10.08 dBm/MHz	-6.15
5510	full	3.212	3.095	0.00	6.16		9.71 dBm/MHz	-3.55
5550	full	3.620	3.446	0.00	6.54		9.71 dBm/MHz	-3.17
5670	full	3.327	3.644	0.00	6.50		9.71 dBm/MHz	-3.21
5710 (U-NII 2C)	full	3.338	3.526	0.00	6.44		9.71 dBm/MHz	-3.27
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	-1.907	-2.011	0.00	2.22	3.27	29.02 dBm/500kHz	-25.75
5755	full	-1.272	-0.806	0.00	2.22	4.20	29.02 dBm/500kHz	-24.82
5795	full	0.703	1.678	0.00	2.22	6.45	29.02 dBm/500kHz	-22.57
POWER DENSITY 802.11b EHT80 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	-2.862	-2.631	0.00	0.27		16.77 dBm/MHz	-16.50
5290	full	-2.324	-2.278	0.00	0.71		10.08 dBm/MHz	-9.37
5530	full	0.213	0.002	0.00	3.12		9.71 dBm/MHz	-6.59
5610	full	2.845	2.936	0.00	5.90		9.71 dBm/MHz	-3.81
5690 (U-NII 2C)	full	1.382	1.629	0.00	4.52		9.71 dBm/MHz	-5.19
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	-4.111	-3.959	0.00	2.22	1.20	29.02 dBm/500kHz	-27.82
5775	full	-3.279	-2.975	0.00	2.22	2.11	29.02 dBm/500kHz	-26.91

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POWER DENSITY 802.11be EHT160 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)
5250	full	-6.231	-6.340	0.00	-3.27	10.08 dBm/MHz	-13.35
5570	full	-6.341	-6.198	0.00	-3.26	9.71 dBm/MHz	-12.97

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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	-2.416	-2.450	0.00	0.58	16.76 dBm/MHz	-16.18	
5220	-2.354	-2.416	0.00	0.63	16.76 dBm/MHz	-16.13	
5240	-2.361	-2.785	0.00	0.44	16.76 dBm/MHz	-16.32	
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	-2.487	-2.256	0.00	0.64	16.76 dBm/MHz	-16.12	
5220	-2.338	-2.670	0.00	0.51	16.76 dBm/MHz	-16.25	
5240	-2.605	-2.781	0.00	0.32	16.76 dBm/MHz	-16.44	
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	-2.288	-2.397	0.00	0.67	16.76 dBm/MHz	-16.09	
5230	-2.322	-2.249	0.00	0.72	16.76 dBm/MHz	-16.04	
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	-3.491	-3.189	0.00	-0.33	16.76 dBm/MHz	-17.09	
POWER DENSITY 802.11ac VHT160 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)	
5250	-7.255	-6.862	0.00	-4.04	10.08 dBm/MHz	-14.12	
POWER DENSITY 802.11be EHT20 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	-2.533	-2.339	0.00	0.58	16.76 dBm/MHz	-16.18
5220	full	-2.539	-2.712	0.00	0.39	16.76 dBm/MHz	-16.37
5240	full	-2.628	-2.616	0.00	0.39	16.76 dBm/MHz	-16.37
POWER DENSITY 802.11be EHT40 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	-2.564	-2.576	0.00	0.44	16.76 dBm/MHz	-16.32
5230	full	-2.535	-2.556	0.00	0.46	16.76 dBm/MHz	-16.30
POWER DENSITY 802.11be EHT80 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	-2.862	-2.631	0.00	0.27	16.76 dBm/MHz	-16.49

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POWER DENSITY 802.11be EHT160 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)
5250	full	-6.231	-6.340	0.00	-3.27	10.08 dBm/MHz	-13.35
EIRP spectral density 802.11a MODE							
Freq. (MHz)			PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180			0.58	6.24	6.82	10	-3.18
5220			0.63	6.24	6.87	10	-3.13
5240			0.44	6.24	6.68	10	-3.32
EIRP spectral density 802.11n HT20 MODE							
Freq. (MHz)			PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180			0.64	6.24	6.88	10	-3.12
5220			0.51	6.24	6.75	10	-3.25
5240			0.32	6.24	6.56	10	-3.44
EIRP spectral density 802.11n HT40 MODE							
Freq. (MHz)			PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190			0.67	6.24	6.91	10	-3.09
5230			0.72	6.24	6.96	10	-3.04
EIRP spectral density 802.11ac VHT80 MODE							
Freq. (MHz)			PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210			-0.33	6.24	5.91	10	-4.09
EIRP spectral density 802.11ac VHT160 MODE							
Freq. (MHz)			PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5250			-4.04	6.24	2.20	10	-7.80

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EIRP spectral density 802.11be EHT20 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	full	0.58	6.24	6.82	10	-3.18
5220	full	0.39	6.24	6.63	10	-3.37
5240	full	0.39	6.24	6.63	10	-3.37
EIRP spectral density 802.11be EHT40 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	full	0.44	6.24	6.68	10	-3.32
5230	full	0.46	6.24	6.70	10	-3.30
EIRP spectral density 802.11be EHT80 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	full	0.27	6.24	6.51	10	-3.49
EIRP spectral density 802.11be EHT160 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5250	full	-3.27	6.24	2.97	10	-7.03

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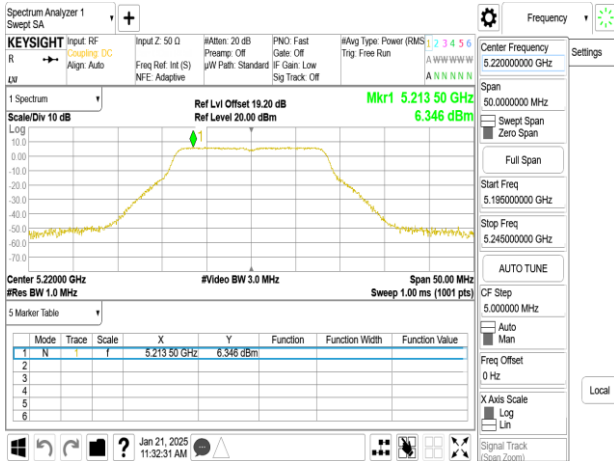
802.11a_20MHz_Chain0_5180MHz



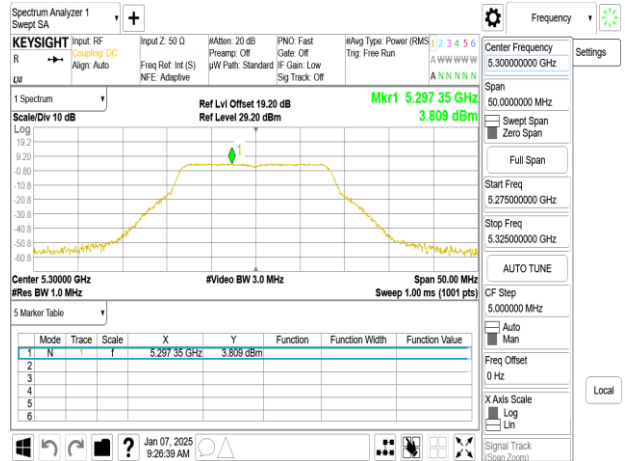
802.11a_20MHz_Chain0_5260MHz



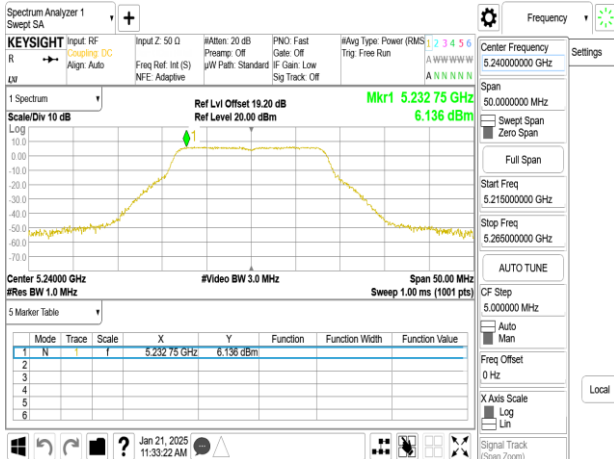
802.11a_20MHz_Chain0_5220MHz



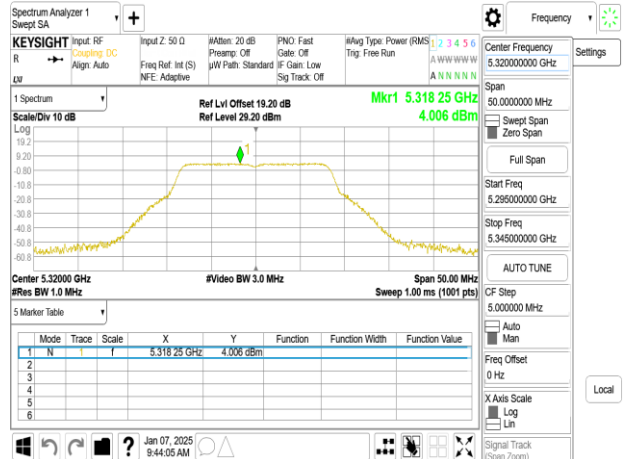
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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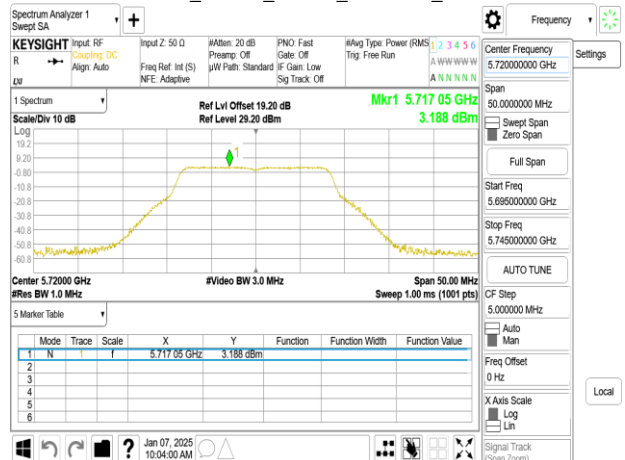
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802.11a_20MHz_Chain0_5500MHz



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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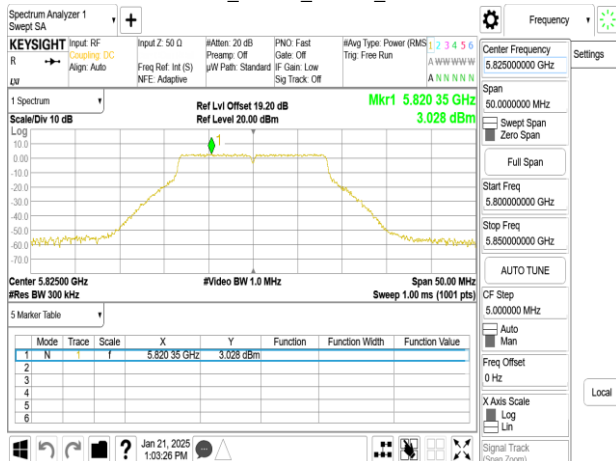
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain0_5825MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz



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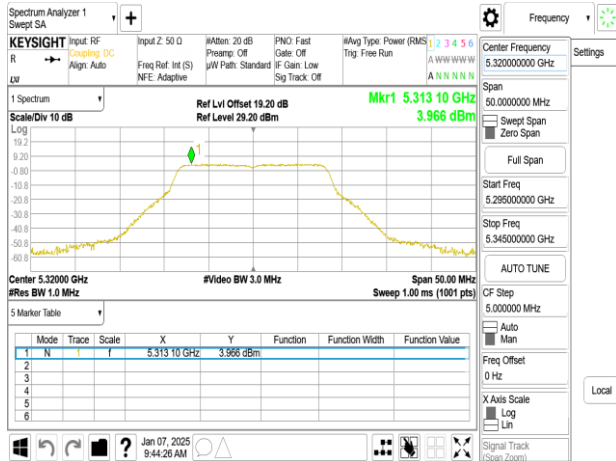
802.11a_20MHz_Chain1_5300MHz



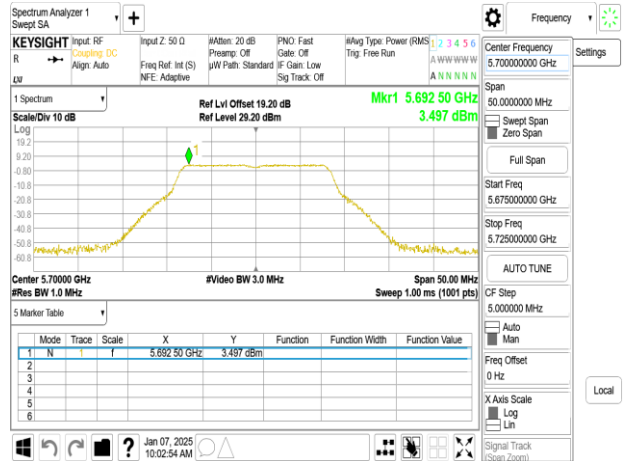
802.11a_20MHz_Chain1_5580MHz



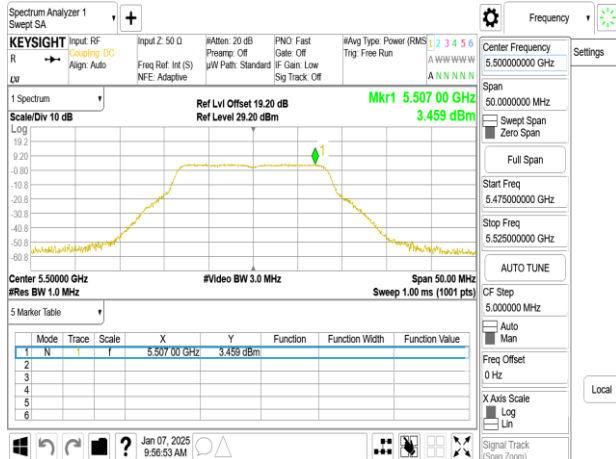
802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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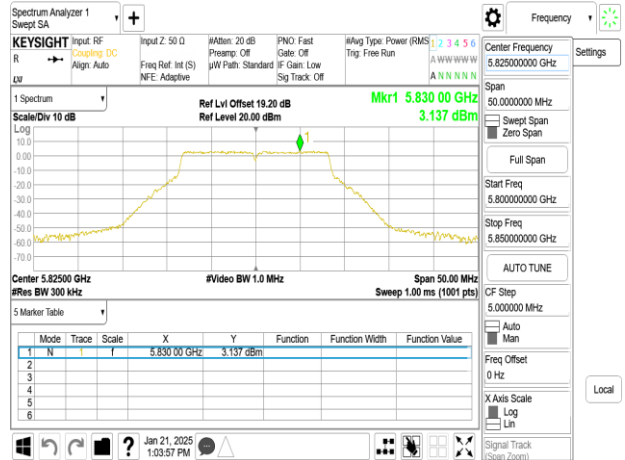
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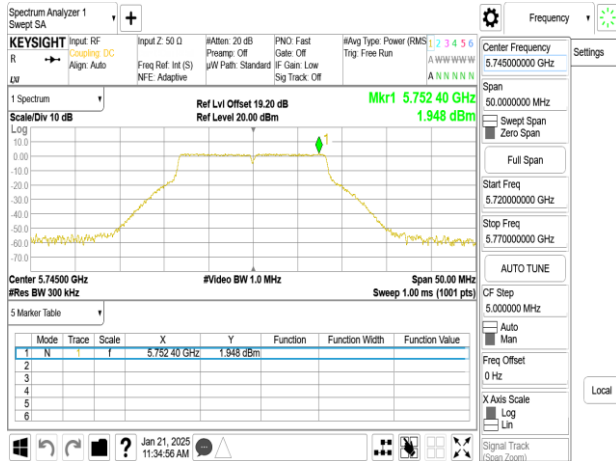
802.11a_20MHz_Chain1_5720MHz_UNI13



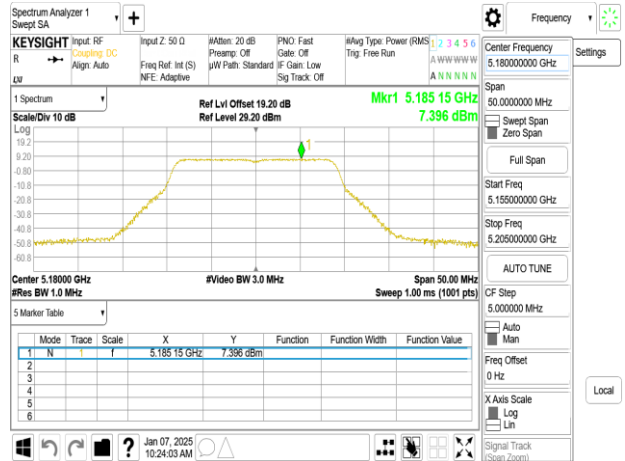
802.11a_20MHz_Chain1_5825MHz



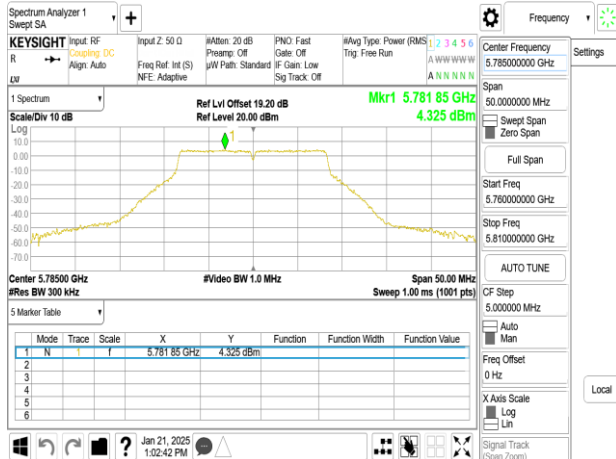
802.11a_20MHz_Chain1_5745MHz



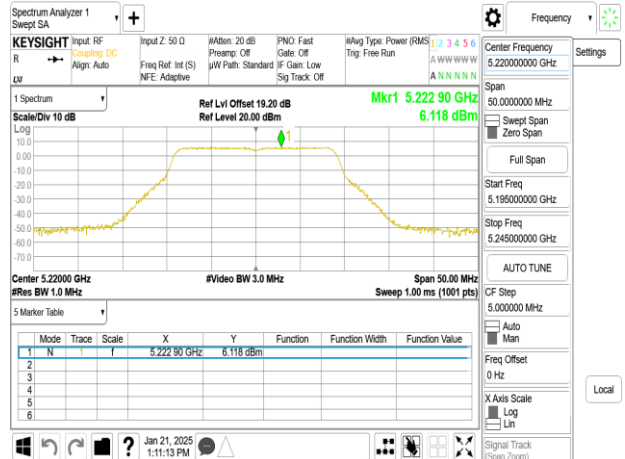
802.11n_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz

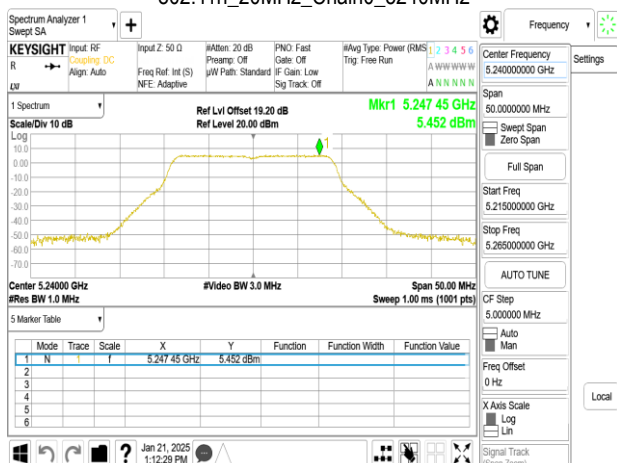


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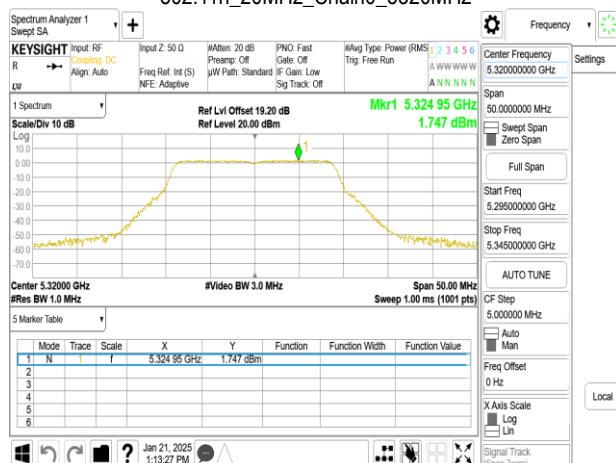
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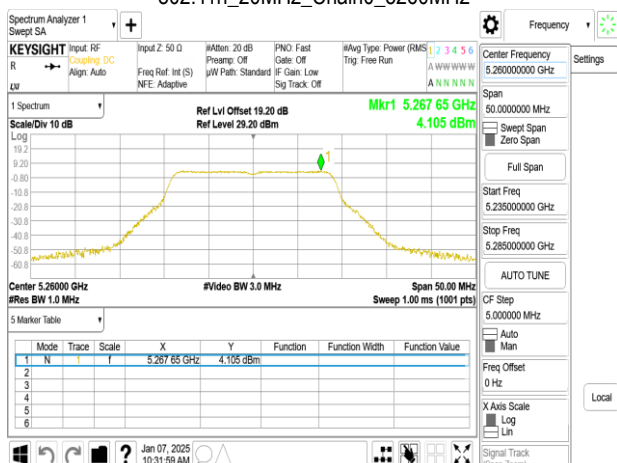
802.11n_20MHz_Chain0_5240MHz



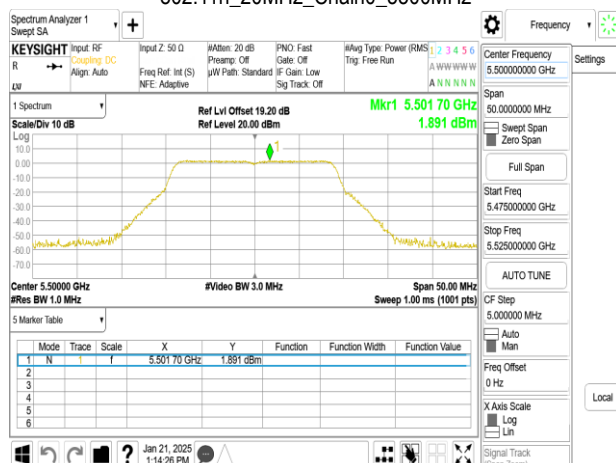
802.11n_20MHz_Chain0_5320MHz



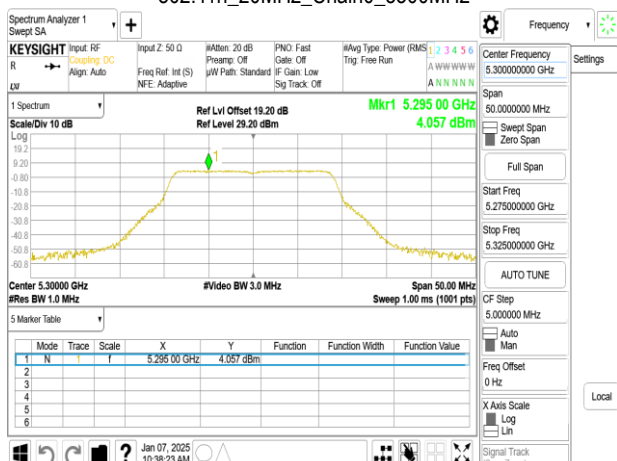
802.11n_20MHz_Chain0_5260MHz



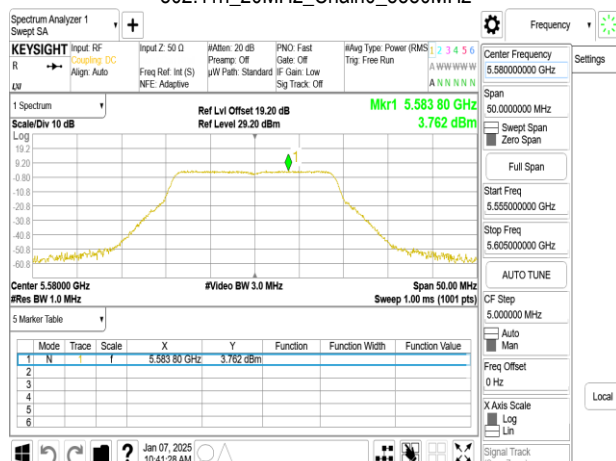
802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz

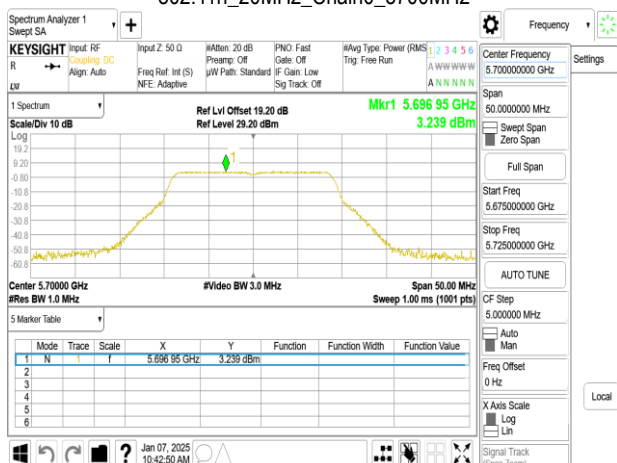


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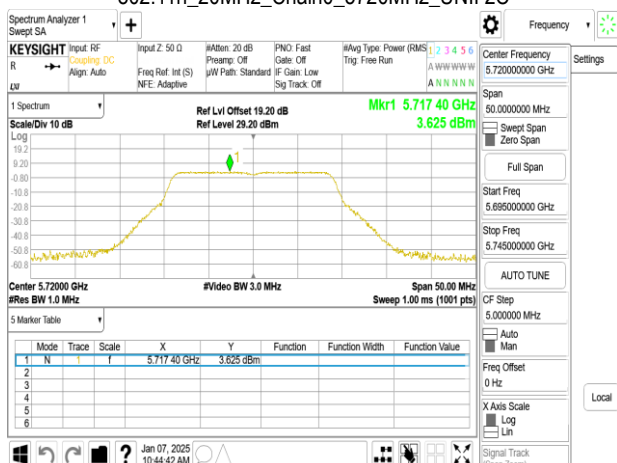
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



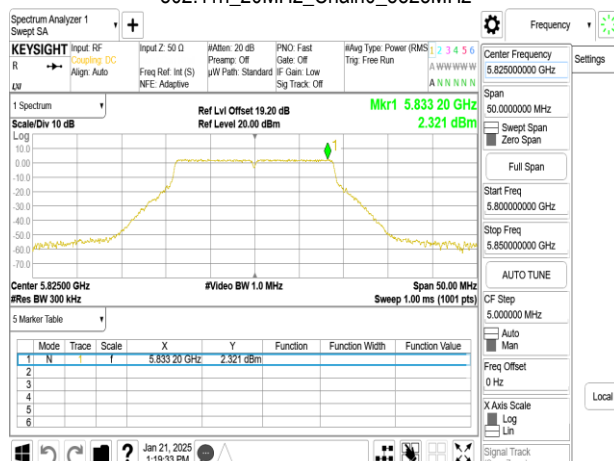
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5825MHz



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