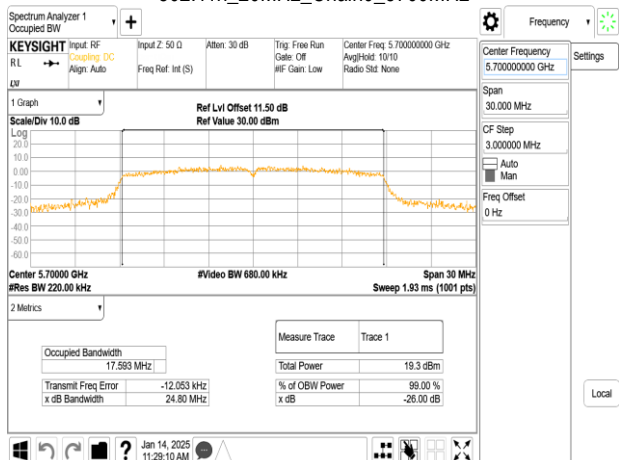
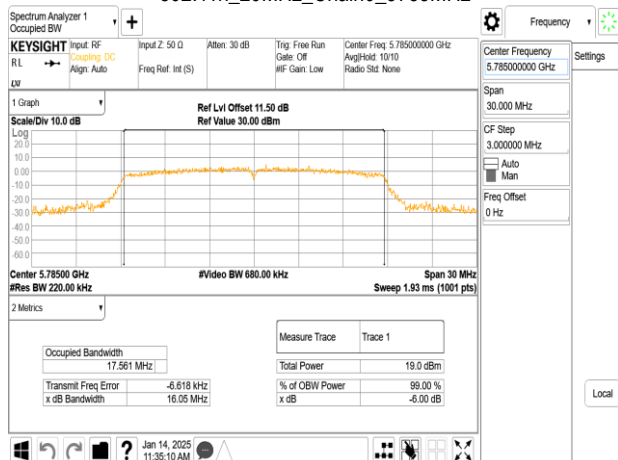


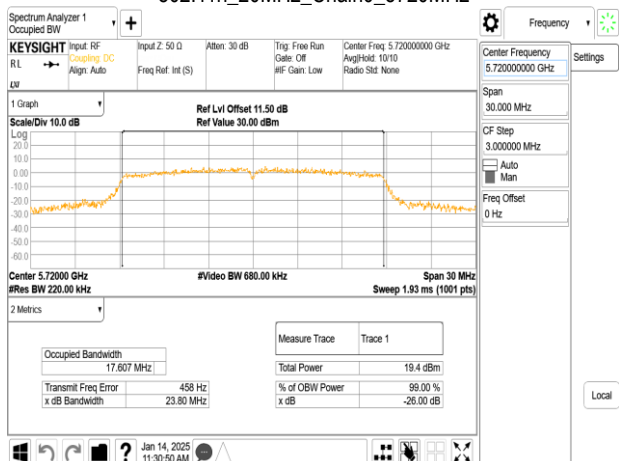
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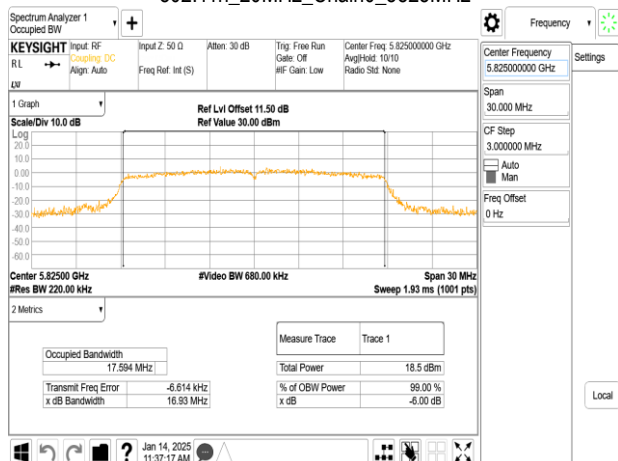
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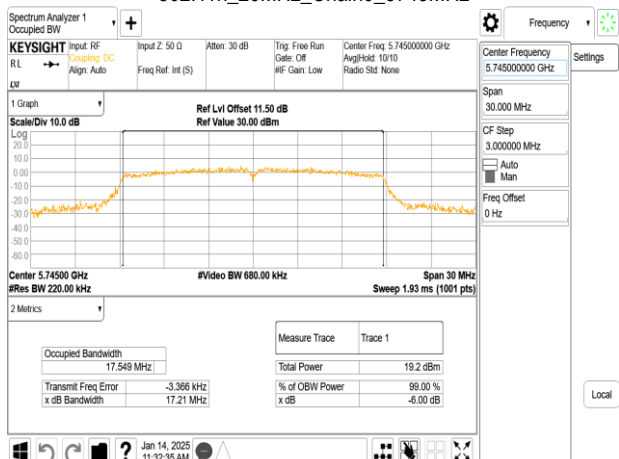
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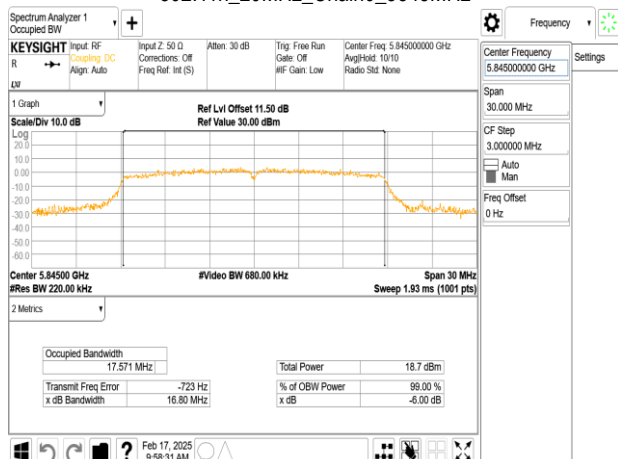
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802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5845MHz

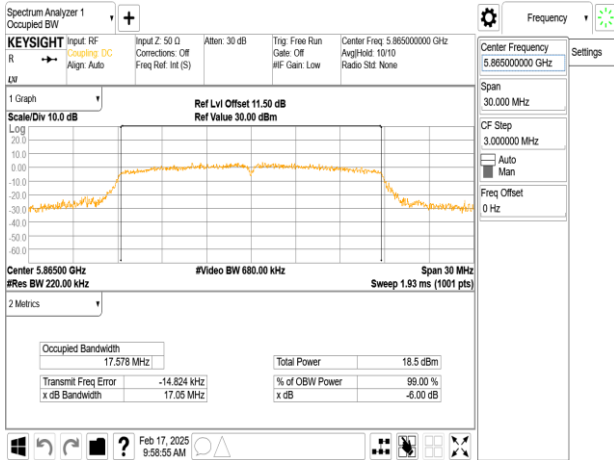


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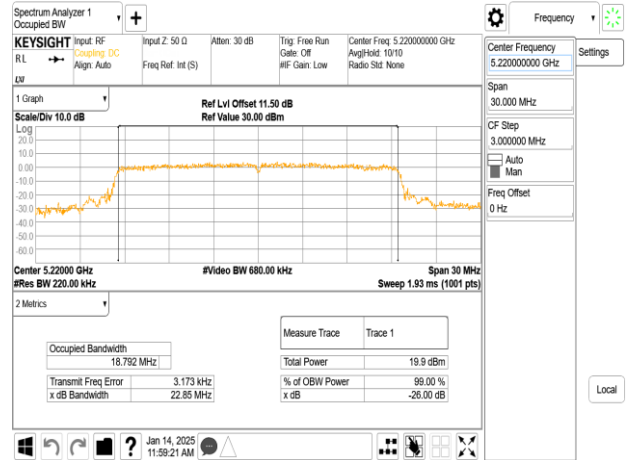
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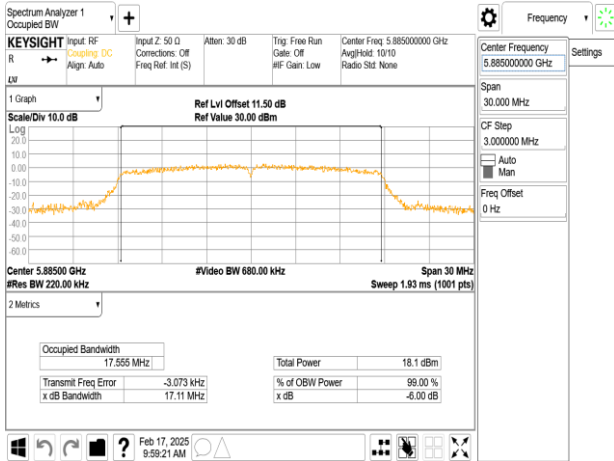
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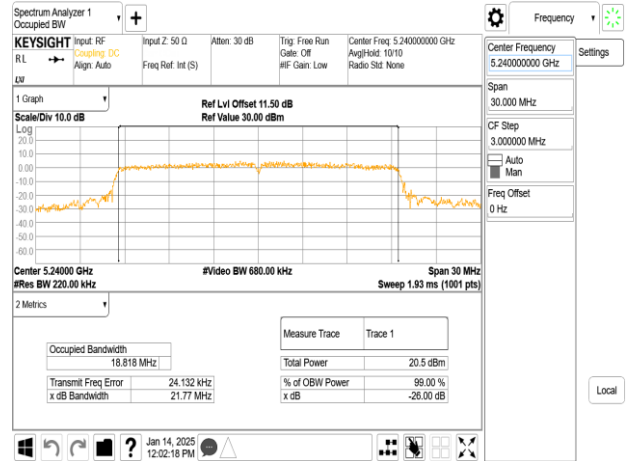
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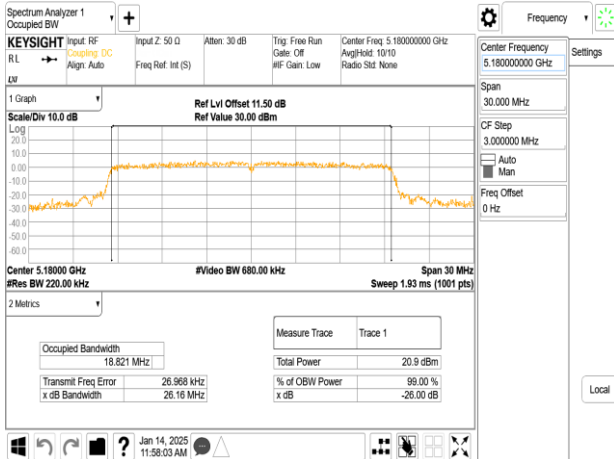
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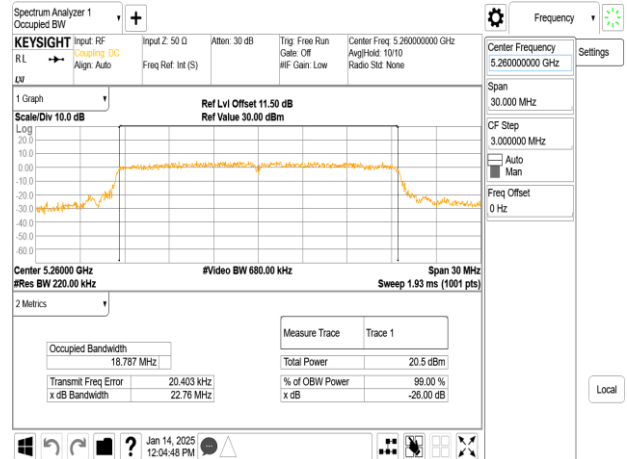
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802.11ax_20MHz_Chain0_5180MHz



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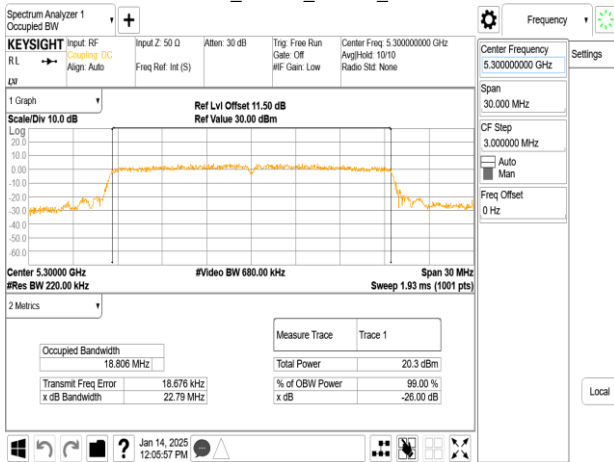


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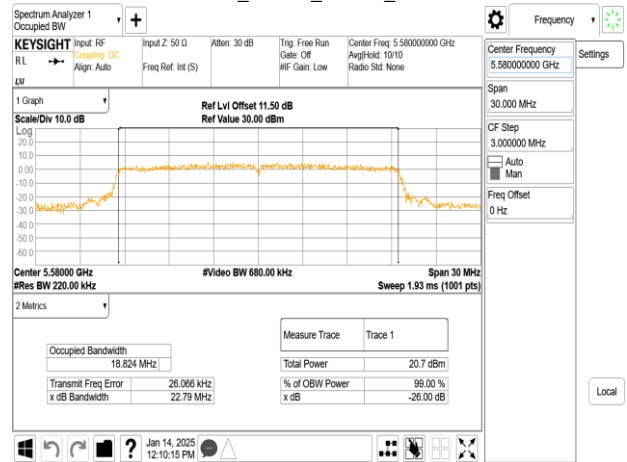
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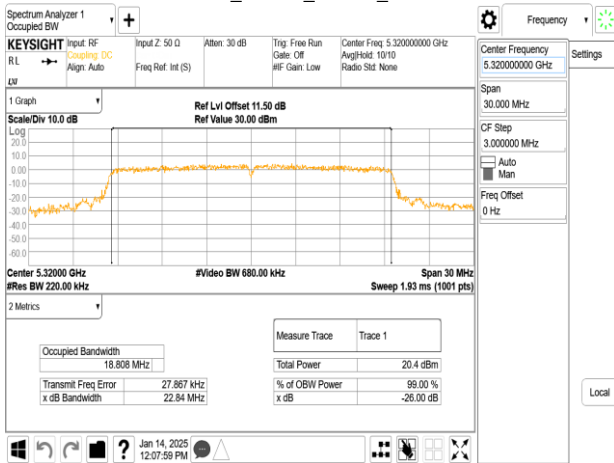
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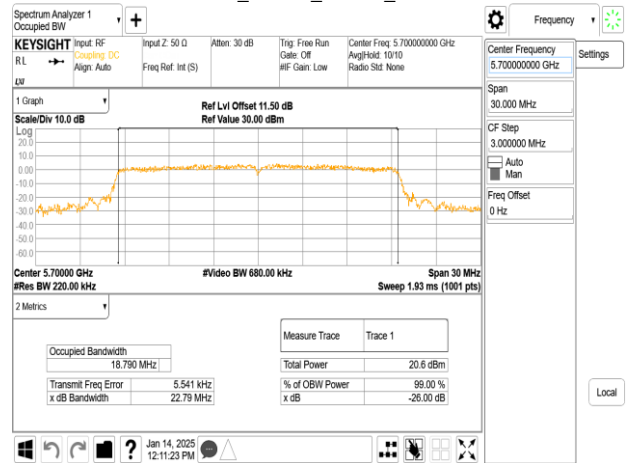
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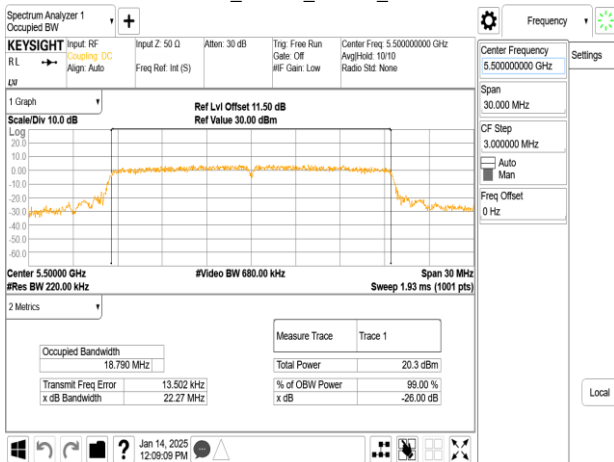
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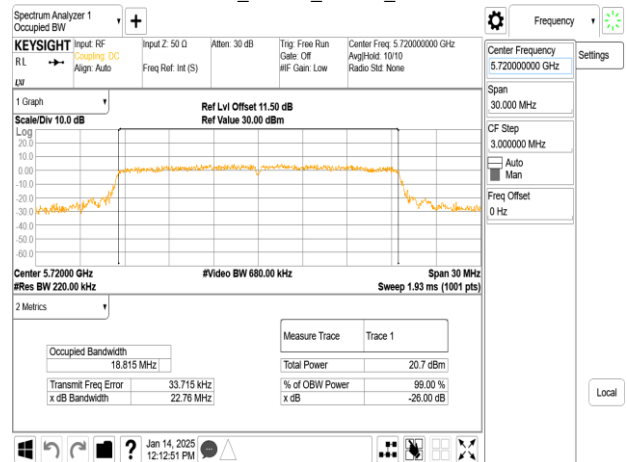
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802.11ax_20MHz_Chain0_5500MHz



802.11ax_20MHz_Chain0_5720MHz

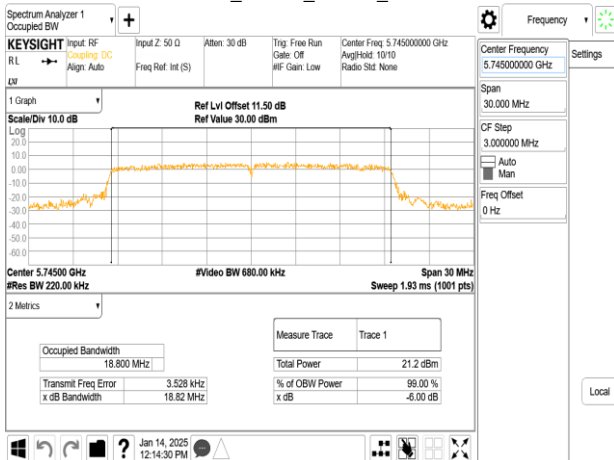


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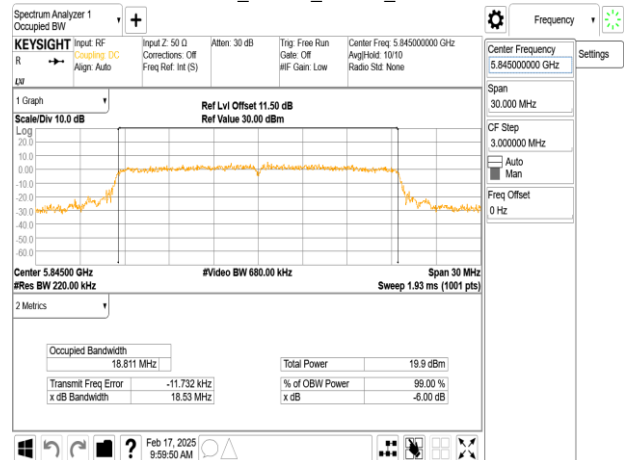
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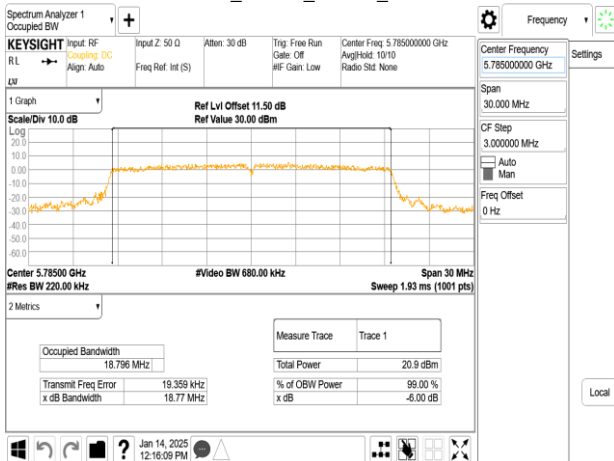
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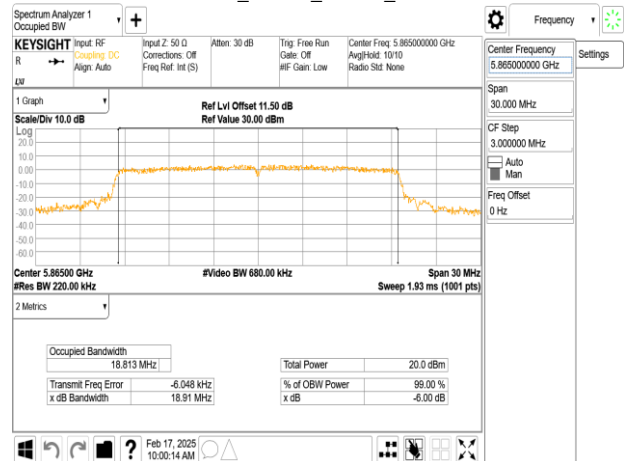
802.11ax_20MHz_Chain0_5845MHz



802.11ax_20MHz_Chain0_5785MHz



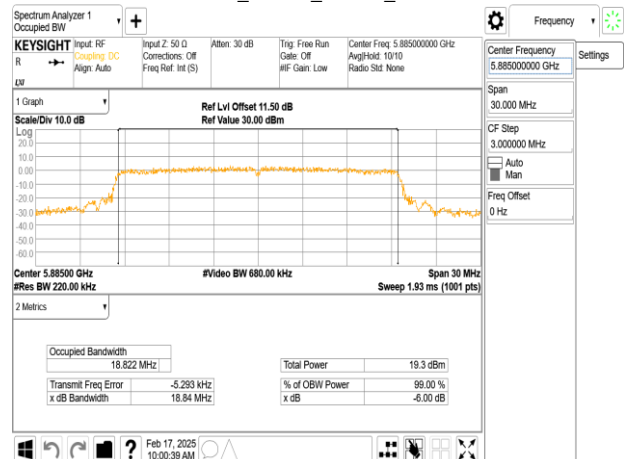
802.11ax_20MHz_Chain0_5865MHz



802.11ax_20MHz_Chain0_5825MHz



802.11ax_20MHz_Chain0_5885MHz



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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.

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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
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	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
	V	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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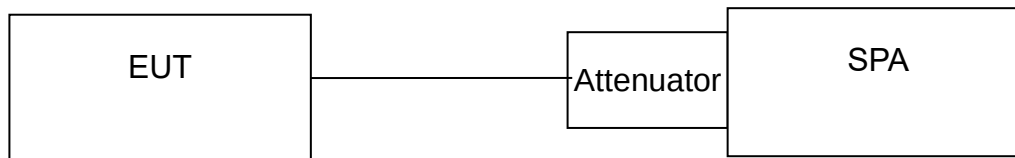
9.1.3 ISED

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

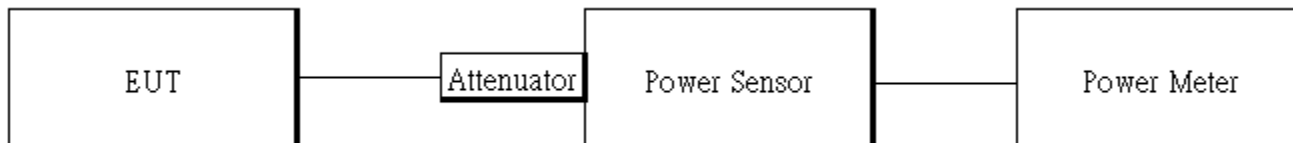
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the $10 \log B$, B is the 99% emission bandwidth.

9.2 Test Setup

9.2.1 Duty Cycle



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.

Note:

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

9.4 Duty Cycle Measurement Result

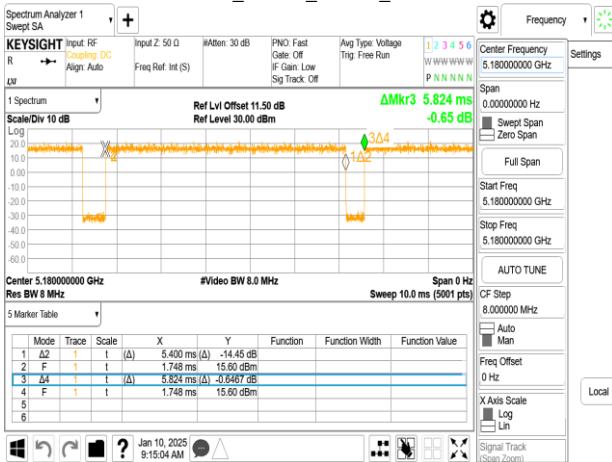
Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
802.11a		92.72	0.33
802.11n_20		95.37	0.21
802.11ac_20		95.94	0.18
Mode	RU Config	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)
802.11ax_20	Full	94.37	0.25
	26 RU	91.03	0.41
	52 RU	91.28	0.40
	106 RU	92.16	0.35

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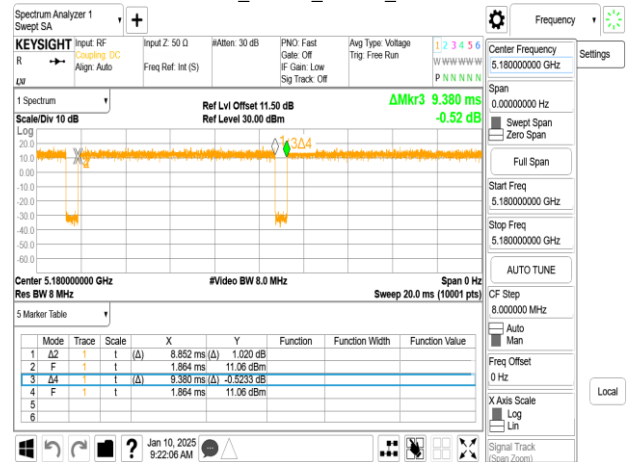
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802.11a_20MHz_Chain0_5180MHz



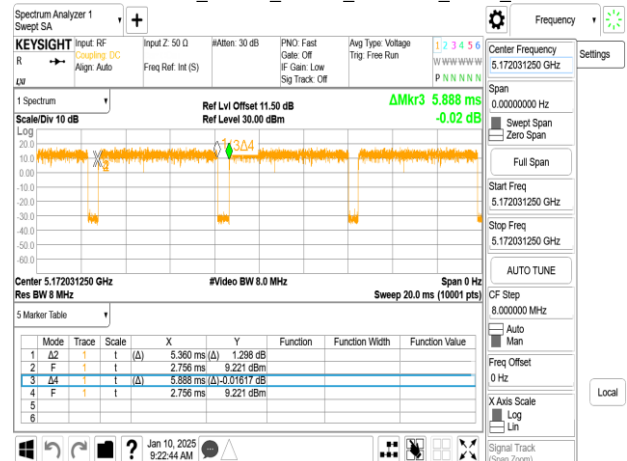
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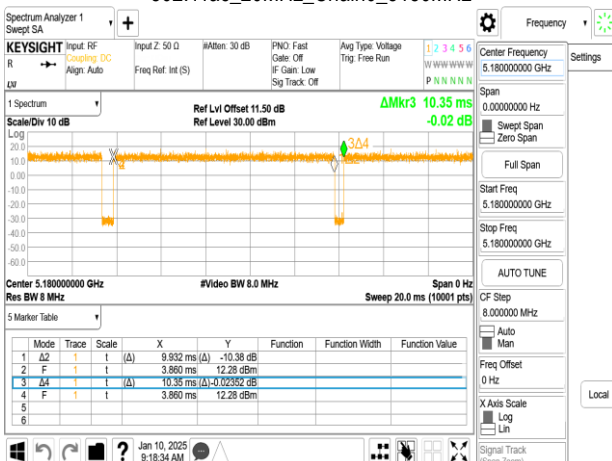
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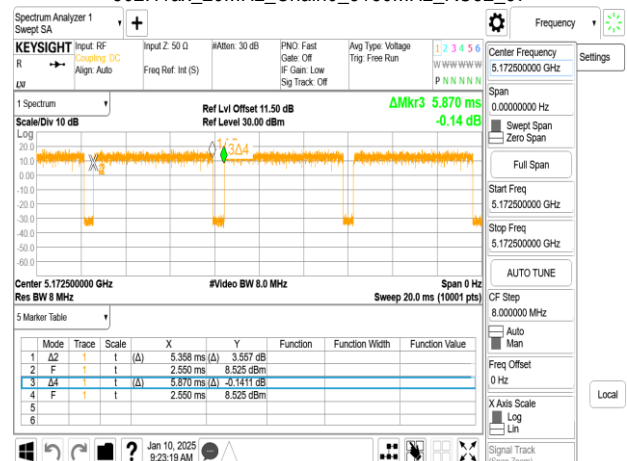
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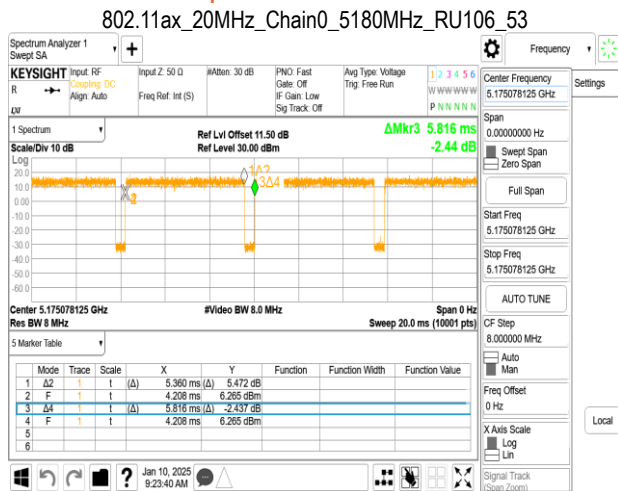
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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	15	30.537	14.85	23.98	PASS
44	5220	6	15	29.432	14.69	23.98	PASS
48	5240	6	15	29.773	14.74	23.98	PASS
52	5260	6	15	30.118	14.79	23.98	PASS
60	5300	6	15	30.749	14.88	23.98	PASS
64	5320	6	15	31.248	14.95	23.98	PASS
100	5500	6	15	30.257	14.81	23.98	PASS
116	5580	6	15	30.607	14.86	23.98	PASS
140	5700	6	15	31.176	14.94	23.98	PASS
144	5720(U-NII 2C)	6	15	23.213	13.66	22.78	PASS
144	5720 (U-NII 3)	6	15	7.820	8.93	30	PASS
149	5745	6	15	31.105	14.93	30	PASS
157	5785	6	15	30.537	14.85	30	PASS
165	5825	6	15	30.962	14.91	30	PASS
169	5845 (U-NII 3)	6	15	26.715	14.27	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	6	15	11.270	10.52	30	PASS
173	5865	6	15	101.351	20.06	30	PASS
177	5885	6	15	101.818	20.08	30	PASS

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CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15	29.349	14.68	23.98	PASS
44	5220	MCS0	15	29.552	14.71	23.98	PASS
48	5240	MCS0	15	29.416	14.69	23.98	PASS
52	5260	MCS0	15	30.945	14.91	23.98	PASS
60	5300	MCS0	15	31.159	14.94	23.98	PASS
64	5320	MCS0	15	30.803	14.89	23.98	PASS
100	5500	MCS0	15	31.016	14.92	23.98	PASS
116	5580	MCS0	15	30.450	14.84	23.98	PASS
140	5700	MCS0	15	30.661	14.87	23.98	PASS
144	5720(U-NII 2C)	MCS0	15	22.207	13.46	23.98	PASS
144	5720 (U-NII 3)	MCS0	15	8.666	9.38	30	PASS
149	5745	MCS0	15	29.688	14.73	30	PASS
157	5785	MCS0	15	30.171	14.80	30	PASS
165	5825	MCS0	15	29.416	14.69	30	PASS
169	5845 (U-NII 3)	MCS0	15	23.771	13.76	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	MCS0	15	21.654	13.36	30	PASS
173	5865	MCS0	15	96.736	19.86	30	PASS
177	5885	MCS0	15	101.763	20.08	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15	28.576	14.560	23.98	PASS
44	5220	MCS0	15	28.774	14.590	23.98	PASS
48	5240	MCS0	15	28.379	14.530	23.98	PASS
52	5260	MCS0	15	30.130	14.790	23.98	PASS
60	5300	MCS0	15	29.854	14.750	23.98	PASS
64	5320	MCS0	15	29.580	14.710	23.98	PASS
100	5500	MCS0	15	30.200	14.800	23.98	PASS
116	5580	MCS0	15	29.377	14.680	23.98	PASS
140	5700	MCS0	15	29.377	14.680	23.98	PASS
144	5720(U-NII 2C)	MCS0	15	21.033	13.229	23.98	PASS
144	5720 (U-NII 3)	MCS0	15	8.208	9.142	30	PASS
149	5745	MCS0	15	28.314	14.520	30	PASS
157	5785	MCS0	15	28.907	14.610	30	PASS
165	5825	MCS0	15	29.040	14.630	30	PASS
169	5845 (U-NII 3)	MCS0	15	23.039	13.625	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	MCS0	15	20.987	13.22	30	PASS
173	5865	MCS0	15	95.280	19.79	30	PASS
177	5885	MCS0	15	98.628	19.94	30	PASS

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	15	31.345	14.96	23.98	PASS
		MCS0	26/0	8	5.356	7.29	23.98	PASS
		MCS0	52/37	10	9.674	9.86	23.98	PASS
		MCS0	106/53	12	16.922	12.28	23.98	PASS
44	5220	MCS0	full	15	29.728	14.73	23.98	PASS
48	5240	MCS0	full	15	30.072	14.78	23.98	PASS
52	5260	MCS0	full	15	30.003	14.77	23.98	PASS
60	5300	MCS0	full	15	30.773	14.88	23.98	PASS
64	5320	MCS0	full	15	31.057	14.92	23.98	PASS
		MCS0	26/8	14	20.645	13.15	23.98	PASS
		MCS0	52/40	16	29.691	14.73	23.98	PASS
		MCS0	106/54	15	29.680	14.72	23.98	PASS
100	5500	MCS0	full	15	30.420	14.83	23.98	PASS
		MCS0	26/0	14	19.716	12.95	23.98	PASS
		MCS0	52/37	16	29.216	14.66	23.98	PASS
		MCS0	106/53	15	29.817	14.74	23.98	PASS
116	5580	MCS0	full	15	30.003	14.77	23.98	PASS
140	5700	MCS0	full	14	30.281	14.81	23.98	PASS
		MCS0	26/8	12	14.582	11.64	23.98	PASS
		MCS0	52/40	13	21.608	13.35	23.98	PASS
		MCS0	106/54	14	29.138	14.64	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	14	21.485	13.32	23.12	PASS
144	5720 (U-NII 3)	MCS0	full	14	8.312	9.20	30	PASS
149	5745	MCS0	full	15	30.702	14.87	30	PASS
		MCS0	26/0	16	30.256	14.81	30	PASS
		MCS0	52/37	16	29.828	14.75	30	PASS
		MCS0	106/53	15	30.023	14.77	30	PASS
157	5785	MCS0	full	15	30.211	14.80	30	PASS
165	5825	MCS0	full	15	30.915	14.90	30	PASS
		MCS0	26/8	16	29.364	14.68	30	PASS
		MCS0	52/40	16	30.104	14.79	30	PASS
		MCS0	106/54	15	29.475	14.69	30	PASS
169	5845 (U-NII 3)	MCS0	full	15	23.497	13.71	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	MCS0	full	15	23.624	13.73	30	PASS
173	5865	MCS0	full	15	102.604	20.11	30	PASS
		MCS0	26/0	16	98.359	19.93	30	PASS
		MCS0	52/37	16	97.415	19.89	30	PASS
		MCS0	106/53	15	99.188	19.96	30	PASS
177	5885	MCS0	full	15	101.898	20.08	30	PASS
		MCS0	26/8	16	97.682	19.90	30	PASS
		MCS0	52/40	16	98.998	19.96	30	PASS
		MCS0	106/54	15	98.505	19.93	30	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	30.118	14.79	23.17	PASS
60	5300	30.749	14.88	23.18	PASS
64	5320	31.248	14.95	23.19	PASS
100	5500	30.257	14.81	23.17	PASS
116	5580	30.607	14.86	23.17	PASS
140	5700	31.176	14.94	23.18	PASS
144	5720(U-NII 2C)	23.213	13.66	22.22	PASS
144	5720 (U-NII 3)	7.820	8.93	30	PASS
149	5745	31.105	14.93	30	PASS
157	5785	30.537	14.85	30	PASS
165	5825	30.962	14.91	30	PASS
169	5845 (U-NII 3)	26.715	14.27	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	30.945	14.91	23.46	PASS
60	5300	31.159	14.94	23.45	PASS
64	5320	30.803	14.89	23.46	PASS
100	5500	31.016	14.92	23.45	PASS
116	5580	30.450	14.84	23.46	PASS
140	5700	30.661	14.87	23.45	PASS
144	5720(U-NII 2C)	22.207	13.46	22.4	PASS
144	5720 (U-NII 3)	8.666	9.38	30	PASS
149	5745	29.688	14.73	30	PASS
157	5785	30.171	14.80	30	PASS
165	5825	29.416	14.69	30	PASS
169	5845 (U-NII 3)	23.771	13.76	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	30.130	14.79	23.46	PASS
60	5300	29.854	14.75	23.45	PASS
64	5320	29.580	14.71	23.46	PASS
100	5500	30.200	14.80	23.45	PASS
116	5580	29.377	14.68	23.46	PASS
140	5700	29.377	14.68	23.45	PASS
144	5720(U-NII 2C)	21.033	13.23	22.4	PASS
144	5720 (U-NII 3)	8.208	9.14	30	PASS
149	5745	28.314	14.52	30	PASS
157	5785	28.907	14.61	30	PASS
165	5825	29.040	14.63	30	PASS
169	5845 (U-NII 3)	23.039	13.62	30	PASS

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	30.003	14.77	23.74	PASS
60	5300	full	30.773	14.88	23.74	PASS
64	5320	full	31.057	14.92	23.74	PASS
		26/8	20.645	13.15	23.74	PASS
		52/40	29.691	14.73	23.74	PASS
		106/54	29.680	14.72	23.74	PASS
100	5500	full	30.420	14.83	23.74	PASS
		26/0	19.716	12.95	23.74	PASS
		52/37	29.216	14.66	23.74	PASS
		106/53	29.817	14.74	23.74	PASS
116	5580	full	30.003	14.77	23.75	PASS
140	5700	full	30.281	14.81	23.74	PASS
		26/8	14.582	11.64	23.74	PASS
		52/40	21.608	13.35	23.74	PASS
		106/54	29.138	14.64	23.74	PASS
144	5720(U-NII 2C)	full	21.485	13.32	22.59	PASS
144	5720 (U-NII 3)	full	8.312	9.20	30	PASS
149	5745	full	30.702	14.87	30	PASS
		26/0	30.256	14.81	30	PASS
		52/37	29.828	14.75	30	PASS
		106/53	30.023	14.77	30	PASS
157	5785	full	30.211	14.80	30	PASS
165	5825	full	30.915	14.90	30	PASS
		26/8	29.364	14.68	30	PASS
		52/40	30.104	14.79	30	PASS
		106/54	29.475	14.69	30	PASS
169	5845 (U-NII 3)	full	23.497	13.71	30	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.85	5.20	101.158	20.05	22.18	PASS
44	5220	14.69	5.20	97.499	19.89	22.17	PASS
48	5240	14.74	5.20	98.628	19.94	22.16	PASS
52	5260	14.79	5.20	99.770	19.99	29.17	PASS
60	5300	14.88	5.20	101.859	20.08	29.18	PASS
64	5320	14.95	5.20	103.514	20.15	29.19	PASS
100	5500	14.81	5.20	100.231	20.01	29.17	PASS
116	5580	14.86	5.20	101.391	20.06	29.17	PASS
140	5700	14.94	5.20	103.276	20.14	29.18	PASS
CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	5.32	5.20	11.270	10.52	30	PASS
173	5865	14.86	5.20	101.351	20.06	30	PASS
177	5885	14.88	5.20	101.818	20.08	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.68	5.20	97.275	19.88	22.47	PASS
44	5220	14.71	5.20	97.949	19.91	22.45	PASS
48	5240	14.69	5.20	97.499	19.89	22.46	PASS
52	5260	14.91	5.20	102.565	20.11	29.46	PASS
60	5300	14.94	5.20	103.276	20.14	29.45	PASS
64	5320	14.89	5.20	102.094	20.09	29.46	PASS
100	5500	14.92	5.20	102.802	20.12	29.45	PASS
116	5580	14.84	5.20	100.925	20.04	29.46	PASS
140	5700	14.87	5.20	101.625	20.07	29.45	PASS
CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	8.16	5.20	21.654	13.36	30	PASS
173	5865	14.66	5.20	96.736	19.86	30	PASS
177	5885	14.88	5.20	101.763	20.08	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.56	5.20	94.624	19.76	22.47	PASS
44	5220	14.59	5.20	95.280	19.79	22.45	PASS
48	5240	14.53	5.20	93.972	19.73	22.46	PASS
52	5260	14.79	5.20	99.770	19.99	29.46	PASS
60	5300	14.75	5.20	98.855	19.95	29.45	PASS
64	5320	14.71	5.20	97.949	19.91	29.46	PASS
100	5500	14.80	5.20	100.000	20.00	29.45	PASS
116	5580	14.68	5.20	97.275	19.88	29.46	PASS
140	5700	14.68	5.20	97.275	19.88	29.45	PASS
CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	8.02	5.20	20.987	13.22	30	PASS
173	5865	14.59	5.20	95.280	19.79	30	PASS
177	5885	14.74	5.20	98.628	19.94	30	PASS

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	14.96	5.20	103.753	20.16	22.75	PASS
		26/0	7.29	5.20	17.742	12.49	22.75	PASS
		52/37	9.86	5.20	32.063	15.06	22.75	PASS
		106/53	12.28	5.20	55.976	17.48	22.75	PASS
44	5220	full	14.73	5.20	98.401	19.93	22.74	PASS
48	5240	full	14.78	5.20	99.541	19.98	22.75	PASS
52	5260	full	14.77	5.20	99.312	19.97	29.74	PASS
60	5300	full	14.88	5.20	101.859	20.08	29.74	PASS
64	5320	full	14.92	5.20	102.802	20.12	29.74	PASS
		26/8	13.15	5.20	68.391	18.35	29.74	PASS
		52/40	14.73	5.20	98.401	19.93	29.74	PASS
		106/54	14.72	5.20	98.175	19.92	29.74	PASS
100	5500	full	14.83	5.20	100.693	20.03	29.74	PASS
		26/0	12.95	5.20	65.313	18.15	29.74	PASS
		52/37	14.66	5.20	96.828	19.86	29.74	PASS
		106/53	14.74	5.20	98.628	19.94	29.74	PASS
116	5580	full	14.77	5.20	99.312	19.97	29.75	PASS
140	5700	full	14.81	5.20	100.231	20.01	29.74	PASS
		26/8	11.64	5.20	48.306	16.84	29.74	PASS
		52/40	13.35	5.20	71.614	18.55	29.74	PASS
		106/54	14.64	5.20	96.383	19.84	29.74	PASS
CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	full	8.53	5.20	23.624	13.73	30	PASS
173	5865	full	14.91	5.20	102.604	20.11	30	PASS
		26/0	14.73	5.20	98.359	19.93	30	PASS
		52/37	14.69	5.20	97.415	19.89	30	PASS
		106/53	14.76	5.20	99.188	19.96	30	PASS
177	5885	full	14.88	5.20	101.898	20.08	30	PASS
		26/8	14.70	5.20	97.682	19.90	30	PASS
		52/40	14.76	5.20	98.998	19.96	30	PASS
		106/54	14.73	5.20	98.505	19.93	30	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
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	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
	V	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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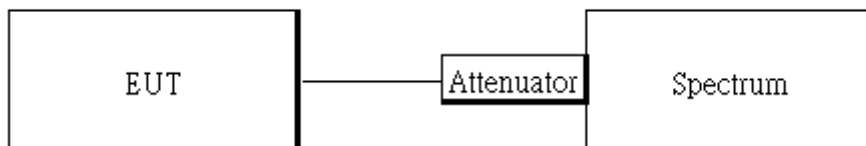
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10.2 ISED Standard

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

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- For U-NII-3 Band:**
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.

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5. Use the cursor on spectrum to peak search the highest level of trace
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 U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.447	0.33	4.78		11.00 dBm/MHz	-6.22
5220	3.706	0.33	4.04		11.00 dBm/MHz	-6.96
5240	3.923	0.33	4.25		11.00 dBm/MHz	-6.75
5260	3.653	0.33	3.98		11.00 dBm/MHz	-7.02
5300	3.545	0.33	3.88		11.00 dBm/MHz	-7.13
5320	3.313	0.33	3.64		11.00 dBm/MHz	-7.36
5500	3.113	0.33	3.44		11.00 dBm/MHz	-7.56
5580	3.171	0.33	3.50		11.00 dBm/MHz	-7.50
5700	4.258	0.33	4.59		11.00 dBm/MHz	-6.41
5720 (U-NII 2C)	4.332	0.33	4.66		11.00 dBm/MHz	-6.34
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-2.663	0.33	2.22	-0.11	30.00 dBm/500kHz	-30.11
5745	-0.903	0.33	2.22	1.65	30.00 dBm/500kHz	-28.35
5785	-0.642	0.33	2.22	1.91	30.00 dBm/500kHz	-28.09
5825	-0.504	0.33	2.22	2.05	30.00 dBm/500kHz	-27.95
5845 (U-NII 3)	-2.180	0.33	2.22	0.37	30.00 dBm/500kHz	-29.63
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit	Margin (dB)
5845 (U-NII4)	1.620	0.33	1.95	7.15	14.00 dBm/MHz	-12.05
5865	-35.660	0.33	-35.33	-30.13	14.00 dBm/MHz	-49.33
5885	3.668	0.33	4.00	9.20	14.00 dBm/MHz	-10.00

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POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.534	0.21	4.74		11.00 dBm/MHz	-6.26
5220	3.573	0.21	3.78		11.00 dBm/MHz	-7.22
5240	3.408	0.21	3.62		11.00 dBm/MHz	-7.38
5260	3.543	0.21	3.75		11.00 dBm/MHz	-7.25
5300	3.178	0.21	3.39		11.00 dBm/MHz	-7.61
5320	3.093	0.21	3.30		11.00 dBm/MHz	-7.70
5500	3.237	0.21	3.45		11.00 dBm/MHz	-7.55
5580	3.515	0.21	3.73		11.00 dBm/MHz	-7.28
5700	4.640	0.21	4.85		11.00 dBm/MHz	-6.15
5720 (U-NII 2C)	4.389	0.21	4.60		11.00 dBm/MHz	-6.40
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-2.185	0.21	2.22	0.25	30.00 dBm/500kHz	-29.76
5745	-0.662	0.21	2.22	1.77	30.00 dBm/500kHz	-28.23
5785	-0.639	0.21	2.22	1.79	30.00 dBm/500kHz	-28.21
5825	-1.028	0.21	2.22	1.40	30.00 dBm/500kHz	-28.60
5845 (U-NII 3)	-1.970	0.21	2.22	0.46	30.00 dBm/500kHz	-29.54
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit	Margin (dB)
5845 (U-NII4)	1.220	0.21	1.43	6.63	14.00 dBm/MHz	-12.57
5865	-36.540	0.21	-36.33	-31.13	14.00 dBm/MHz	-50.33
5885	3.741	0.21	3.95	9.15	14.00 dBm/MHz	-10.05

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POWER DENSITY 802.11ax HE20 MODE							
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	4.479	0.25	4.73		11.00 dBm/MHz	-6.27
	26/0	4.121	0.41	4.53		11.00 dBm/MHz	-6.47
	52/37	4.245	0.40	4.65		11.00 dBm/MHz	-6.36
	106/53	4.204	0.35	4.55		11.00 dBm/MHz	-6.45
5220	full	3.613	0.25	3.86		11.00 dBm/MHz	-7.14
5240	full	3.764	0.25	4.01		11.00 dBm/MHz	-6.99
5260	full	3.993	0.25	4.24		11.00 dBm/MHz	-6.76
5300	full	3.759	0.25	4.01		11.00 dBm/MHz	-6.99
5320	full	3.854	0.25	4.10		11.00 dBm/MHz	-6.90
	26/8	10.358	0.41	10.77		11.00 dBm/MHz	-0.23
	52/40	10.327	0.40	10.73		11.00 dBm/MHz	-0.27
	106/54	6.690	0.35	7.04		11.00 dBm/MHz	-3.96
5500	full	3.927	0.25	4.18		11.00 dBm/MHz	-6.82
	26/0	10.304	0.41	10.71		11.00 dBm/MHz	-0.29
	52/37	9.982	0.40	10.38		11.00 dBm/MHz	-0.62
	106/53	6.846	0.35	7.20		11.00 dBm/MHz	-3.80
5580	full	4.324	0.25	4.57		11.00 dBm/MHz	-6.43
5700	full	4.412	0.25	4.66		11.00 dBm/MHz	-6.34
	26/8	7.838	0.41	8.25		11.00 dBm/MHz	-2.75
	52/40	7.412	0.40	7.81		11.00 dBm/MHz	-3.19
	106/54	7.390	0.35	7.74		11.00 dBm/MHz	-3.26
5720 (U-NII 2C)	full	4.591	0.25	4.84		11.00 dBm/MHz	-6.16
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-1.386	0.25	2.22	1.08	30.00 dBm/500kHz	-28.92
5745	full	-0.020	0.25	2.22	2.45	30.00 dBm/500kHz	-27.55
	26/0	8.586	0.41	2.22	11.22	30.00 dBm/500kHz	-18.78
	52/37	6.046	0.40	2.22	8.67	30.00 dBm/501kHz	-21.33
	106/53	3.660	0.35	2.22	6.23	30.00 dBm/502kHz	-23.77
5785	full	-0.419	0.25	2.22	2.05	30.00 dBm/503kHz	-27.95
5825	full	0.051	0.25	2.22	2.52	30.00 dBm/504kHz	-27.48
	26/8	8.007	0.41	2.22	10.64	30.00 dBm/505kHz	-19.36
	52/40	5.814	0.40	2.22	8.43	30.00 dBm/506kHz	-21.57
	106/54	1.971	0.35	2.22	4.54	30.00 dBm/507kHz	-25.46
5845 (U-NII 3)	full	-1.080	0.25	2.22	1.39	30.00 dBm/508kHz	-28.61
Frequency (MHz)		ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit	Margin (dB)
5845 (U-NII4)	full	2.718	0.25	2.97	8.17	14.00 dBm/MHz	-11.03
5865	full	-33.420	0.25	-33.17	-27.97	14.00 dBm/MHz	-47.17
	26/0	-38.650	0.41	-38.24	-33.04	14.00 dBm/MHz	-52.24
	52/37	-40.220	0.40	-39.82	-34.62	14.00 dBm/MHz	-53.82
	106/53	-37.490	0.35	-37.14	-31.94	14.00 dBm/MHz	-51.14
5885	full	4.250	0.25	4.50	9.70	14.00 dBm/MHz	-9.50
	26/8	10.880	0.41	11.29	16.49	14.00 dBm/MHz	-2.71
	52/40	8.304	0.40	8.70	13.90	14.00 dBm/MHz	-5.30
	106/54	5.145	0.35	5.50	10.70	14.00 dBm/MHz	-8.51

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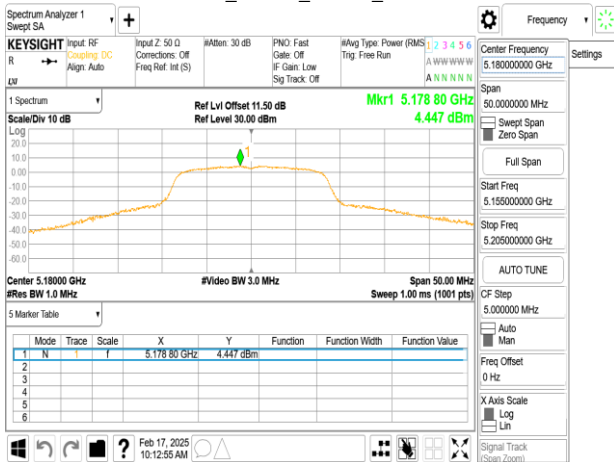
EIRP spectral density 802.11a MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5180	4.777	5.20	9.98	10	-0.02	
5220	4.036	5.20	9.24	10	-0.76	
5240	4.253	5.20	9.45	10	-0.55	
EIRP spectral density 802.11n HT20 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5180	4.744	5.20	9.94	10	-0.06	
5220	3.783	5.20	8.98	10	-1.02	
5240	3.618	5.20	8.82	10	-1.18	
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	4.729	5.20	9.93	10	-0.07
	26/0	4.531	5.20	9.73	10	-0.27
	52/37	4.645	5.20	9.85	10	-0.15
	106/53	4.554	5.20	9.75	10	-0.25
5220	full	3.863	5.20	9.06	10	-0.94
5240	full	4.014	5.20	9.21	10	-0.79

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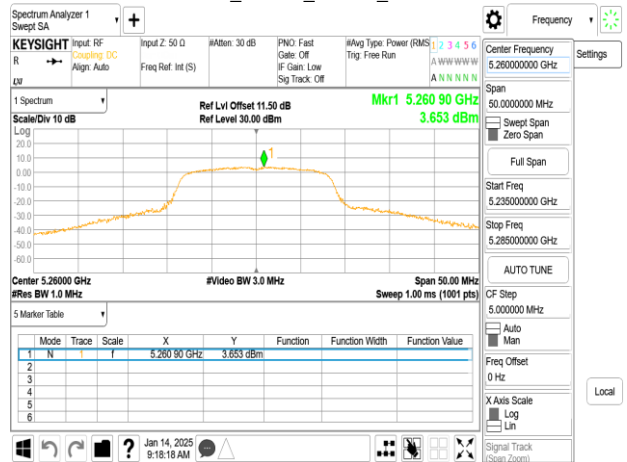
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802.11a_20MHz_Chain0_5180MHz



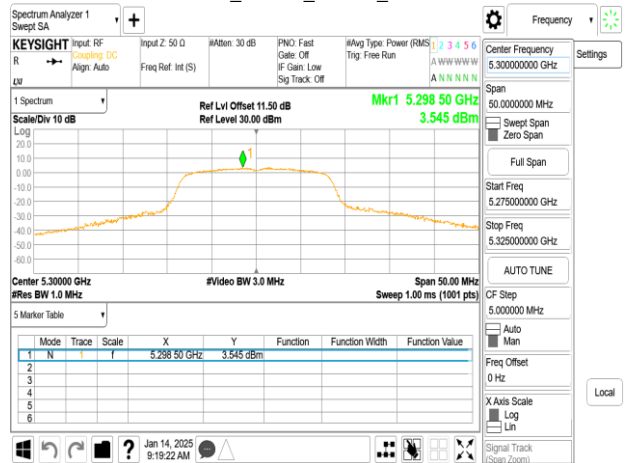
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



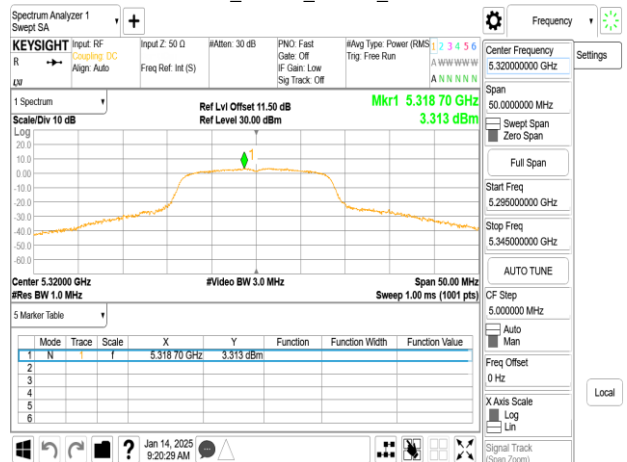
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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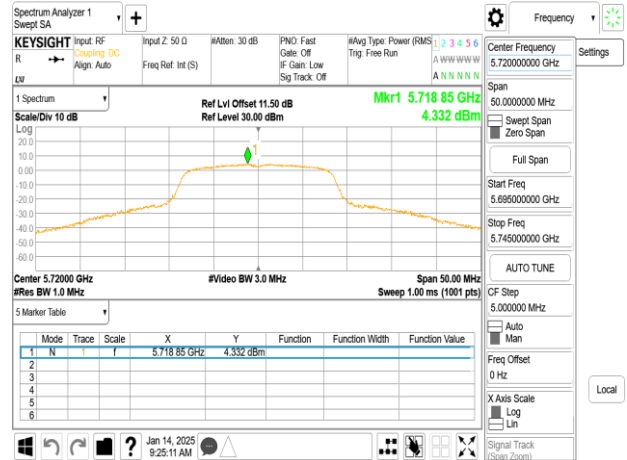
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802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz_UNII 2C



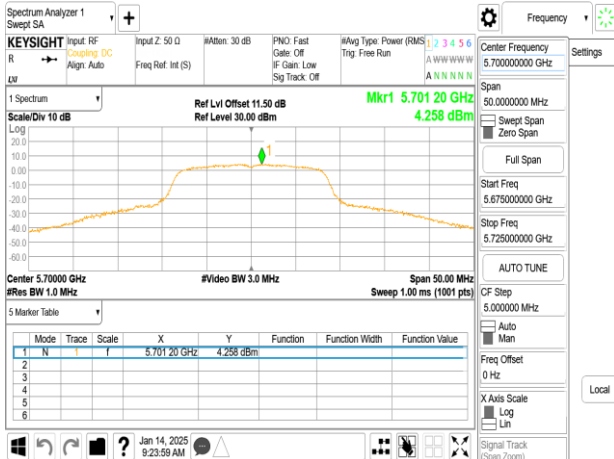
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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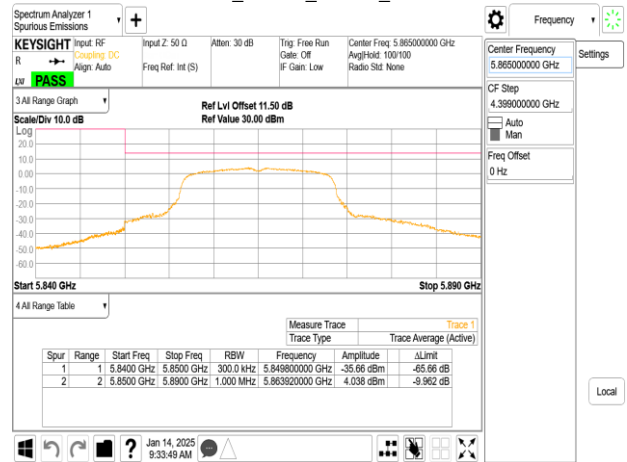
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802.11a_20MHz_Chain0_5785MHz



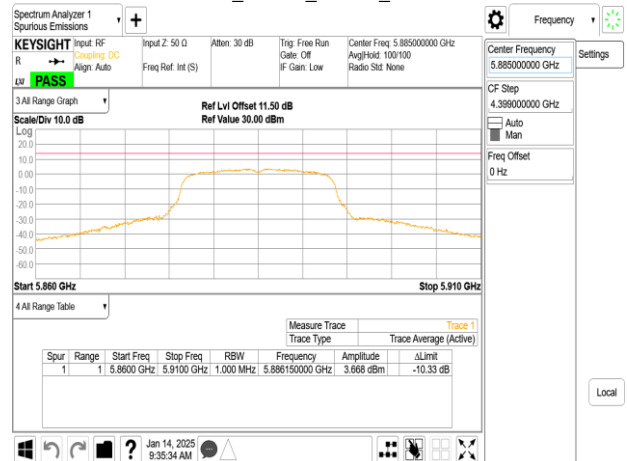
802.11a_20MHz_Chain0_5865MHz



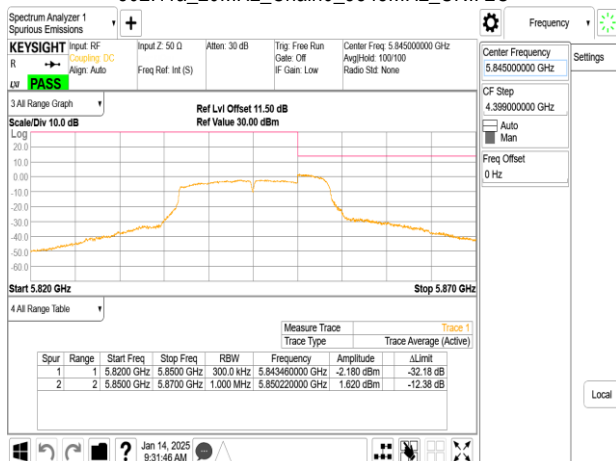
802.11a_20MHz_Chain0_5825MHz



802.11a_20MHz_Chain0_5885MHz



802.11a_20MHz_Chain0_5845MHz_UNII 2C



802.11n_20MHz_Chain0_5180MHz

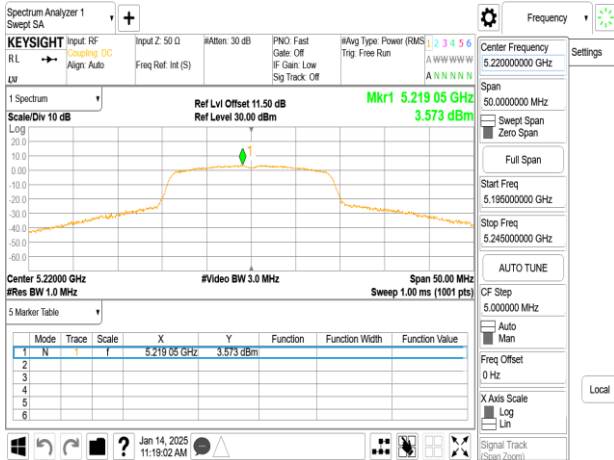


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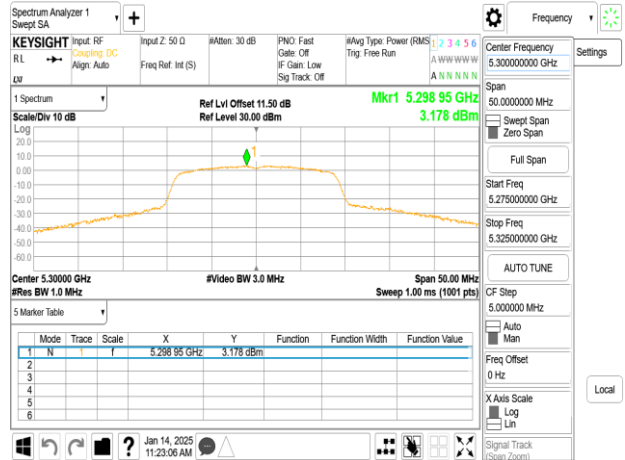
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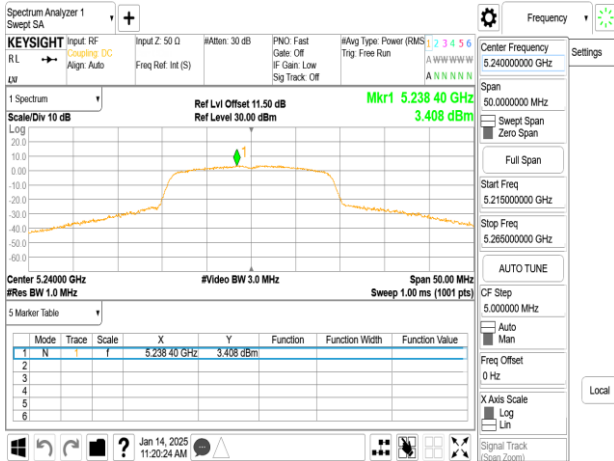
802.11n_20MHz_Chain0_5220MHz



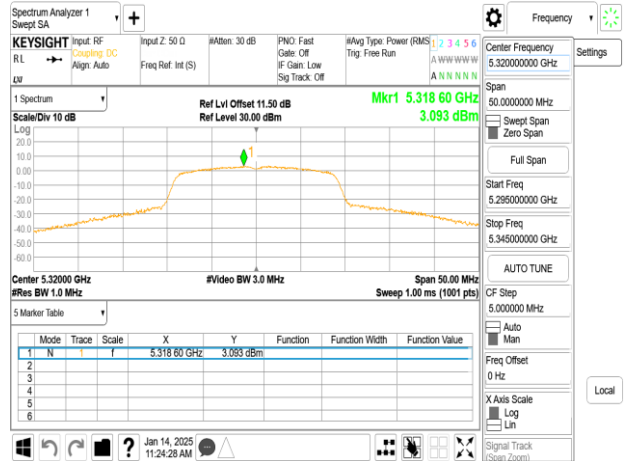
802.11n_20MHz_Chain0_5300MHz



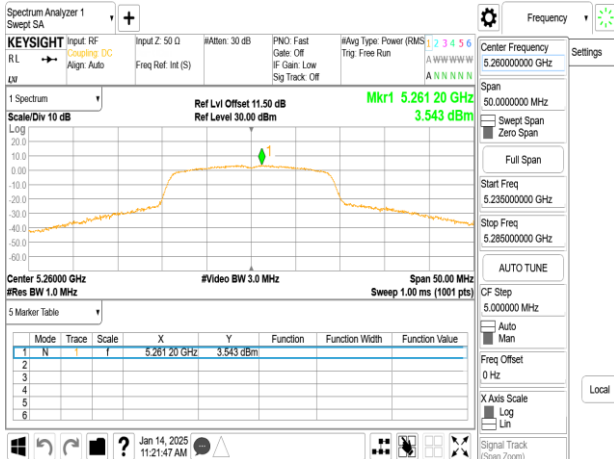
802.11n_20MHz_Chain0_5240MHz



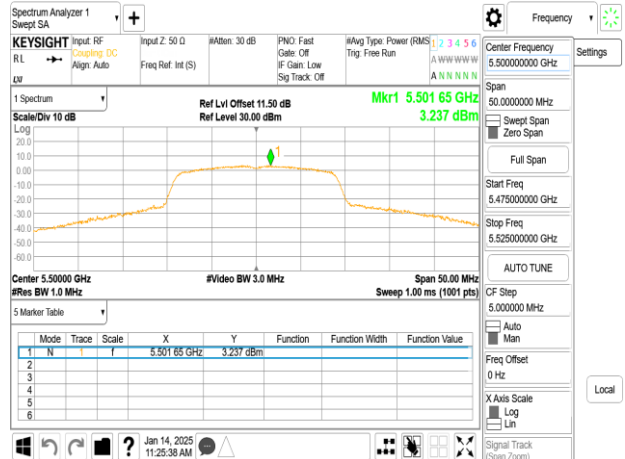
802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5500MHz

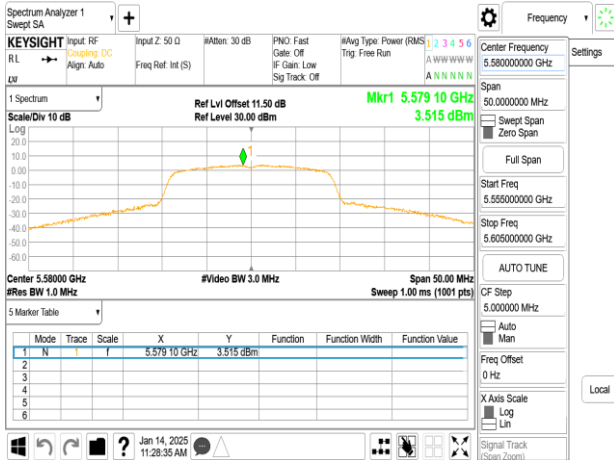


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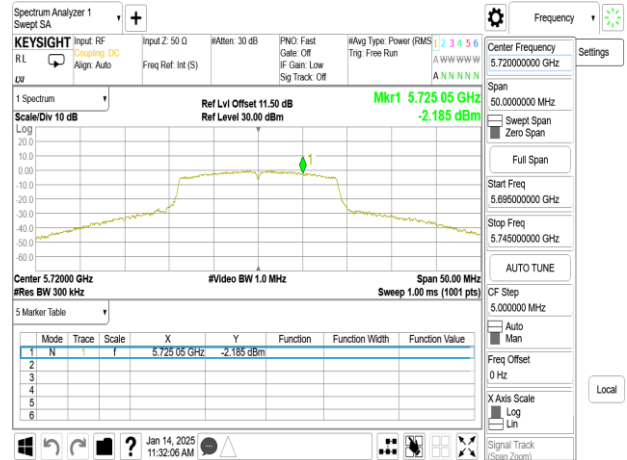
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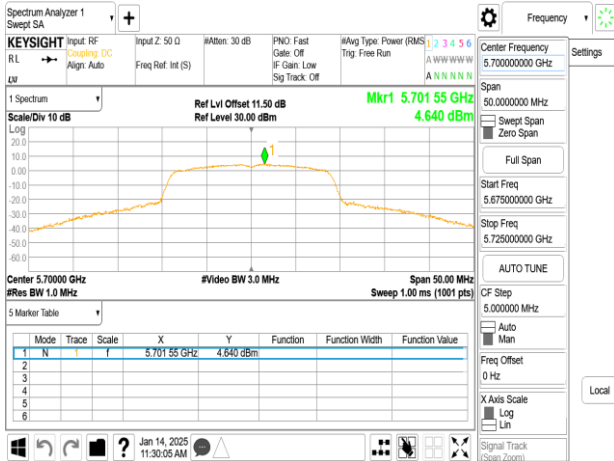
802.11n_20MHz_Chain0_5580MHz



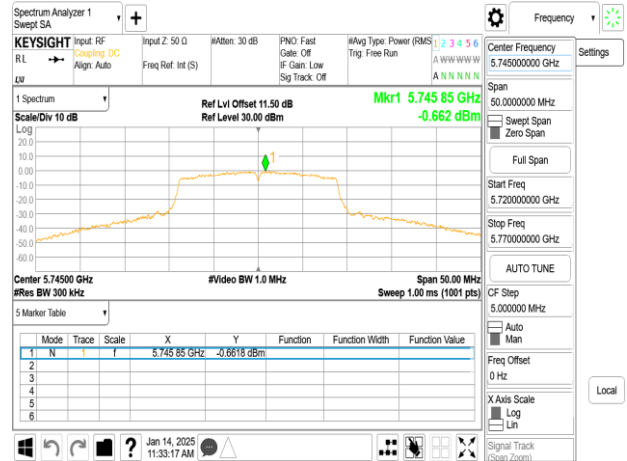
802.11n_20MHz_Chain0_5720MHz_UNII 3



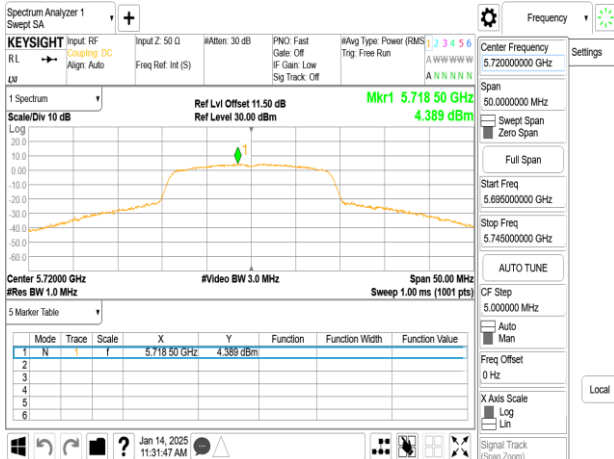
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



802.11n_20MHz_Chain0_5785MHz



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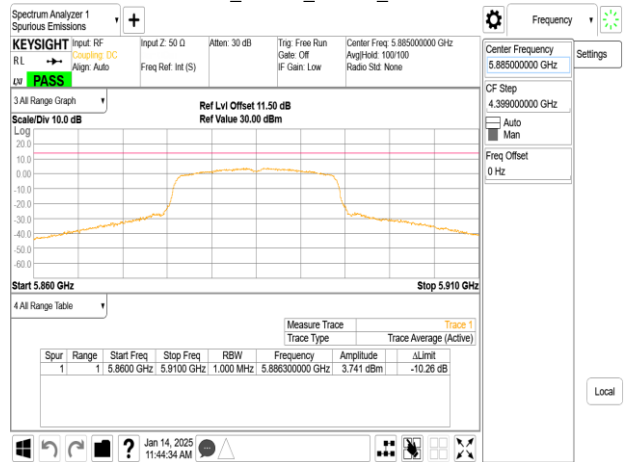
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802.11n_20MHz_Chain0_5825MHz



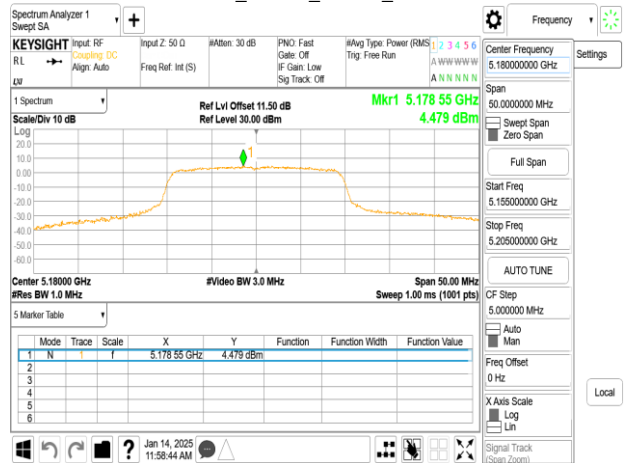
802.11n_20MHz_Chain0_5885MHz



802.11n_20MHz_Chain0_5845MHz_UNII 2C



802.11ax_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5865MHz



802.11ax_20MHz_Chain0_5180MHz_RU26_0



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