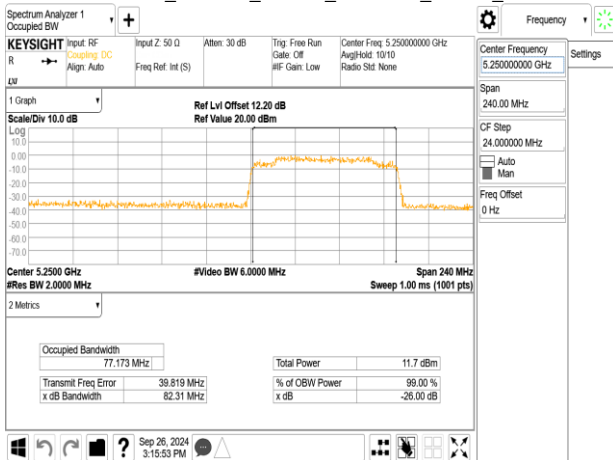
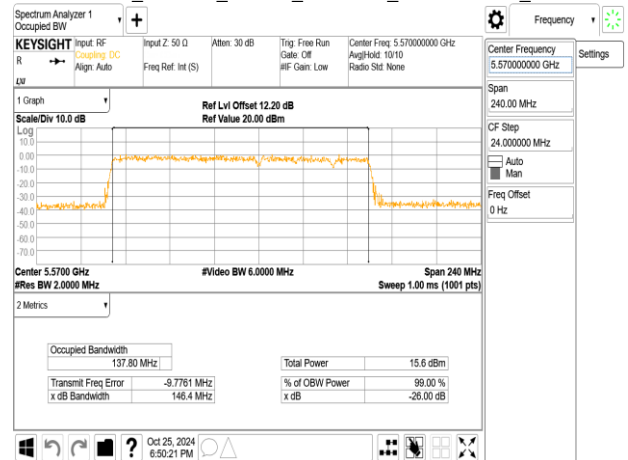


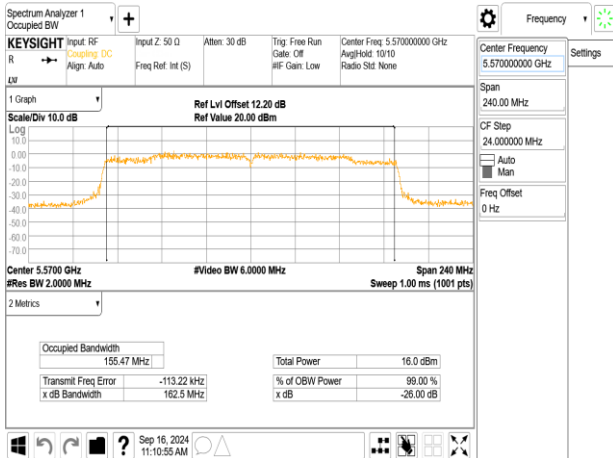
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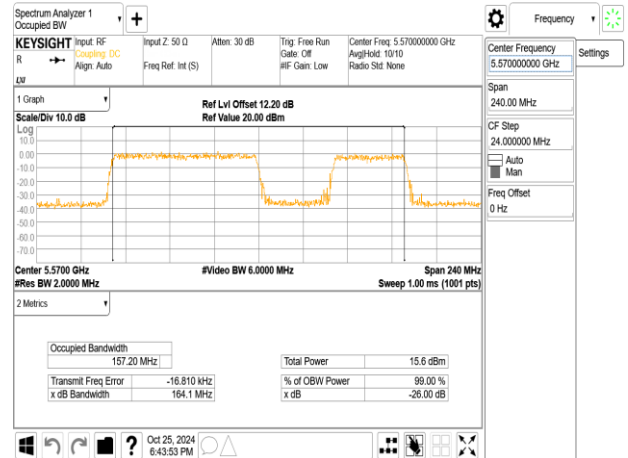
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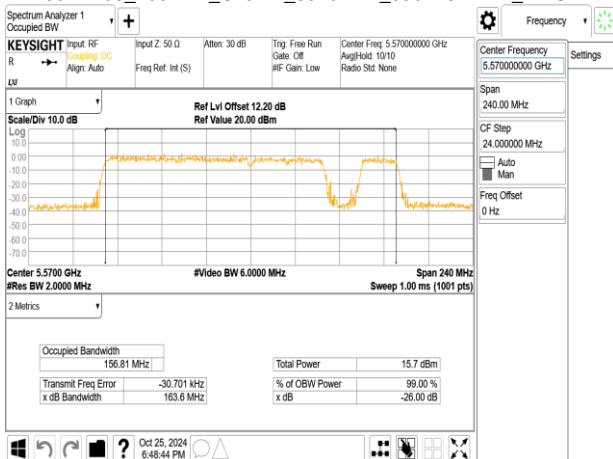
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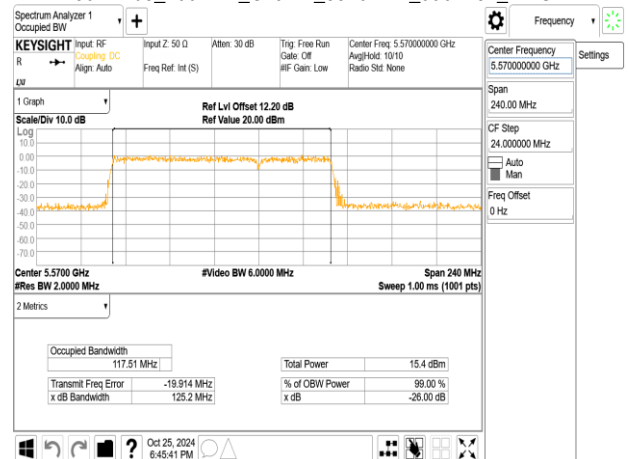
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802.11be_160MHz_ChainA_5570MHz_996+484_MRU4

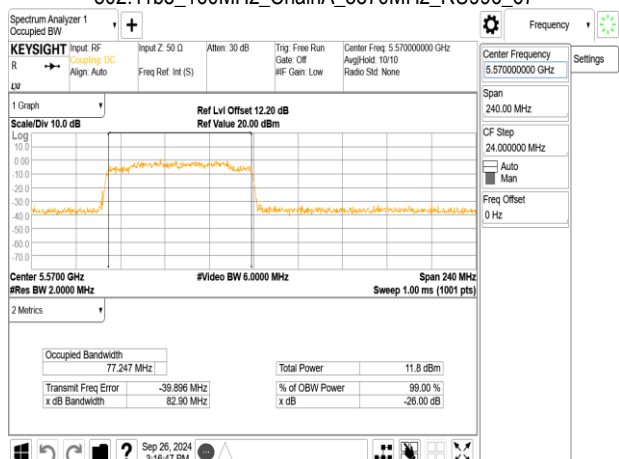


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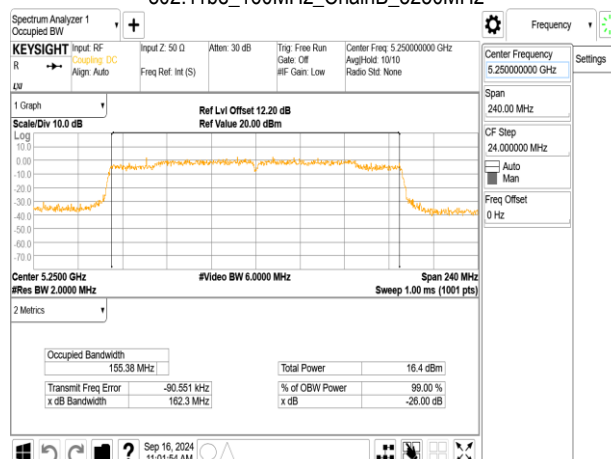
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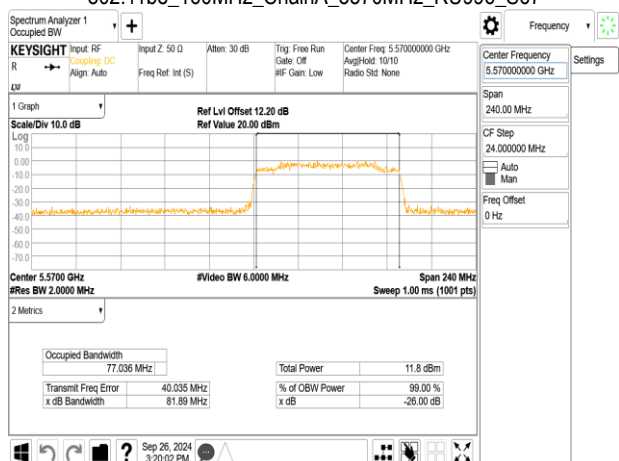
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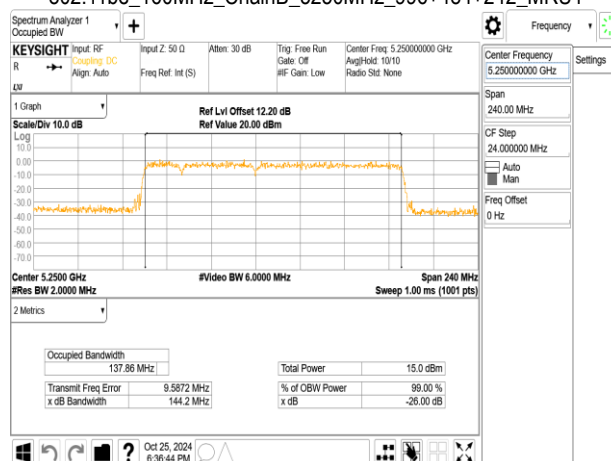
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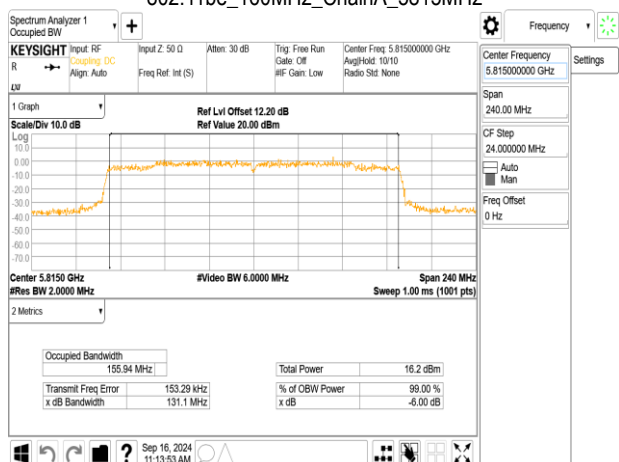
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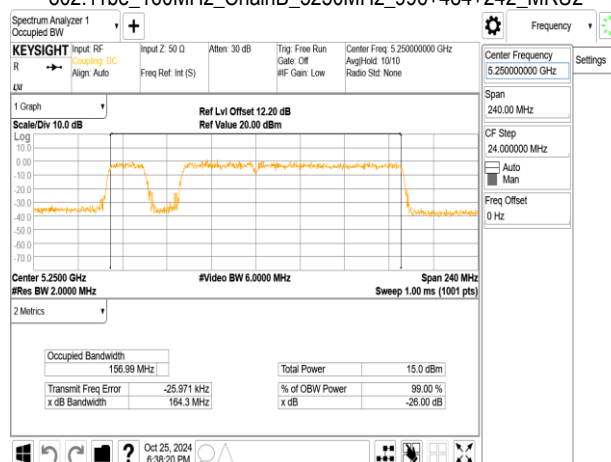
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802.11be 160MHz ChainA 5815MHz



802.11be 160MHz ChainB 5250MHz 996+484+242 MRU2

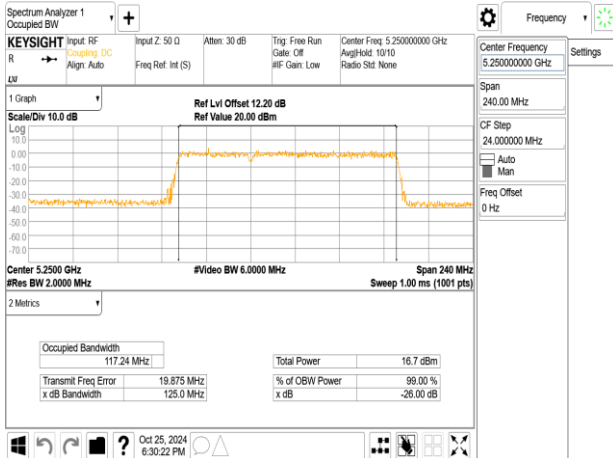


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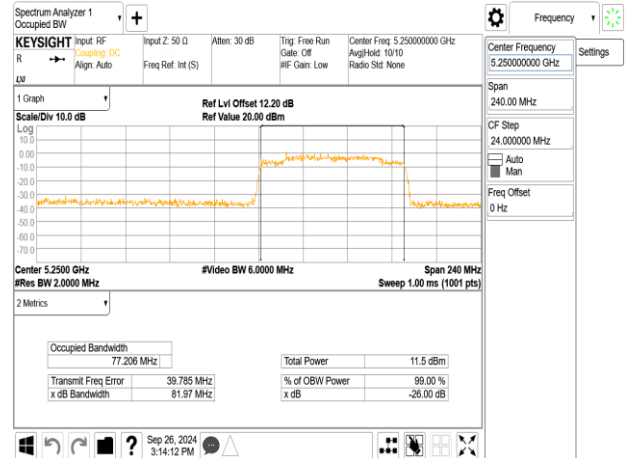
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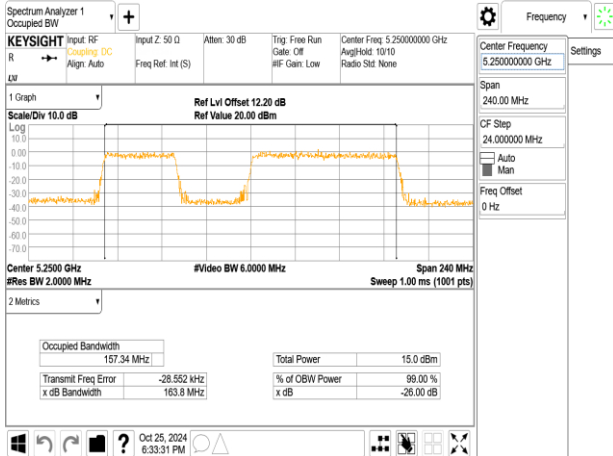
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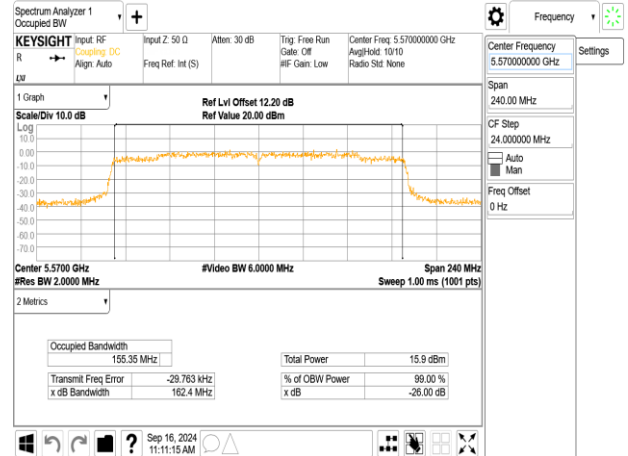
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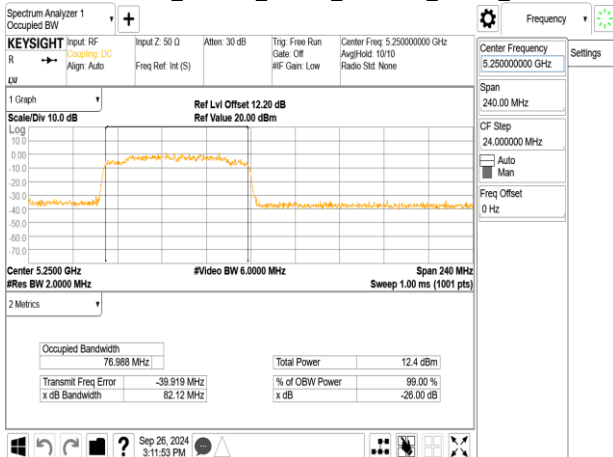
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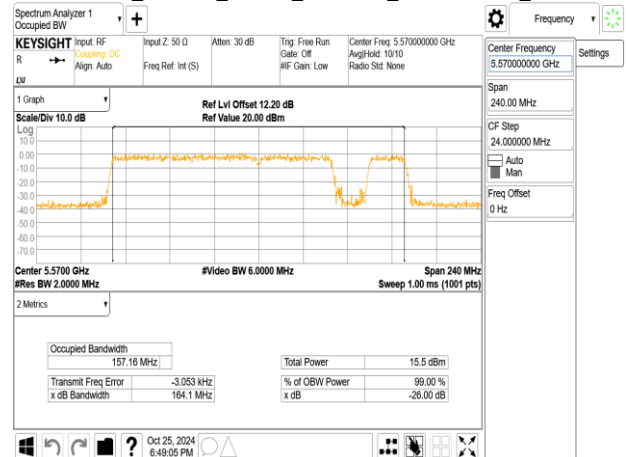
802.11be_160MHz_ChainB_5570MHz



802.11be_160MHz_ChainB_5250MHz_RU996_67



802.11be_160MHz_ChainB_5570MHz_996+484+242_MRUI

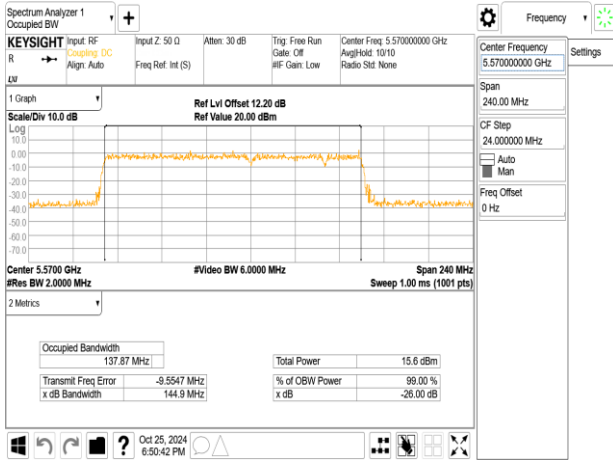


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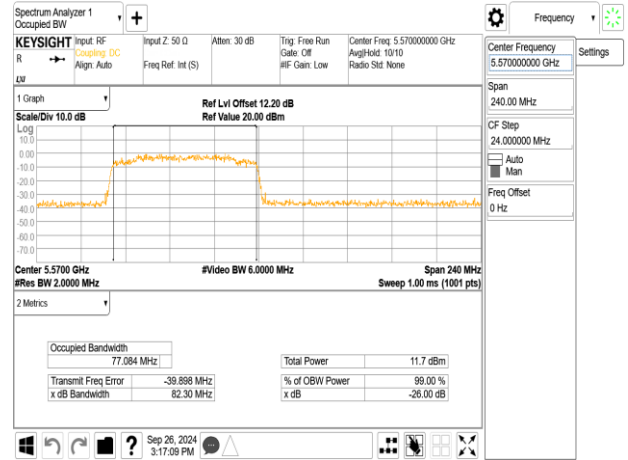
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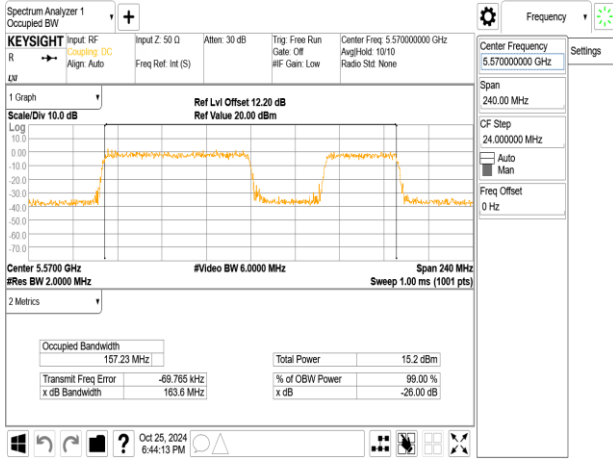
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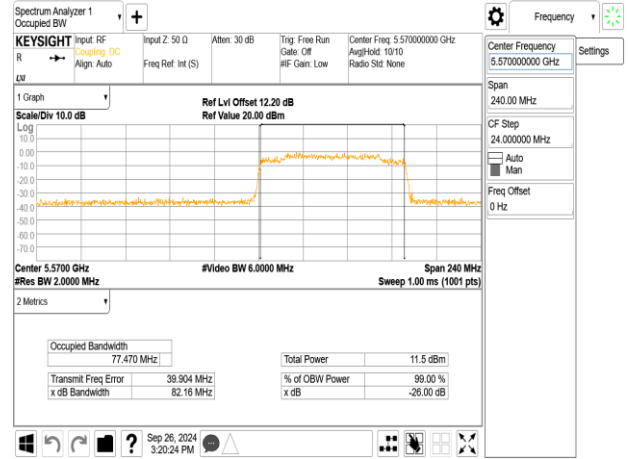
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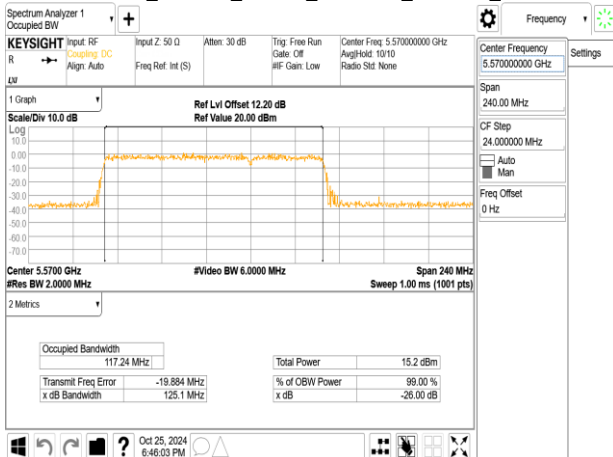
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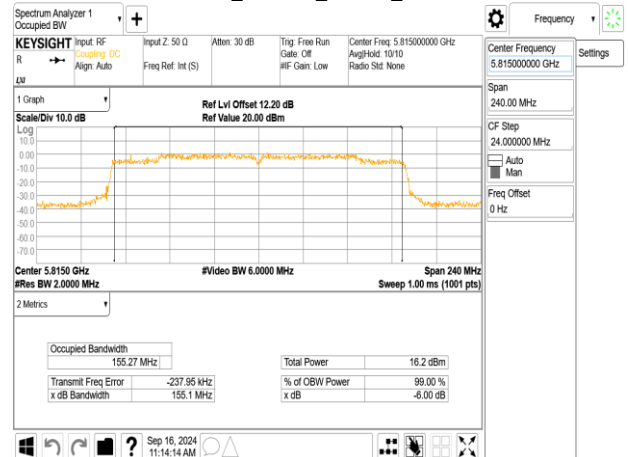
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802.11be_160MHz_ChainB_5570MHz_996+484_MRUG



802.11be_160MHz_ChainB_5815MHz



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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

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

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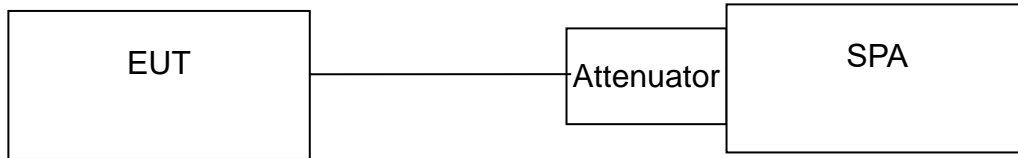
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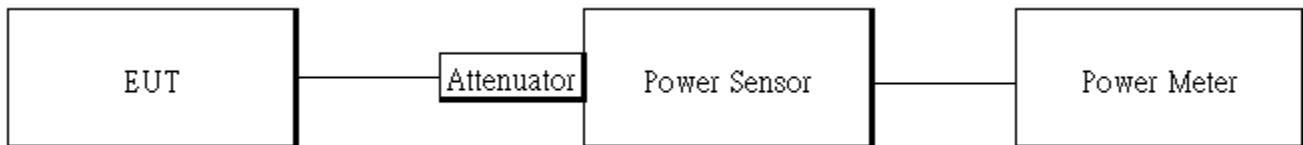
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9.2 Test Setup

9.2.1 Duty Cycle



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 $10 \log(1/\text{duty cycle})$.
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.

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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.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

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	88.93	0.51	0.48	1.00

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Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11n_20		99.30	0.03	0.03	0.01
802.11ac_20		99.48	0.02	0.02	0.01
802.11n_40		98.56	0.06	0.06	0.01
802.11ac_40		98.92	0.05	0.04	0.01
802.11ac_80		97.69	0.10	0.09	1.00
802.11ac_160		95.53	0.20	0.18	1.00
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	98.70	0.06	0.05	0.01
	26 RU	96.34	0.16	0.18	1.00
	52 RU	96.34	0.16	0.18	1.00
	106 RU	96.34	0.16	0.18	1.00
802.11ax_40	Full	98.48	0.07	0.39	0.01
	242 RU	96.34	0.16	0.18	1.00
802.11ax_80	Full	98.48	0.07	0.39	0.01
	484 RU	98.48	0.07	0.39	0.01
802.11ax_160	Full	98.46	0.07	0.41	0.01
	996 RU	98.40	0.07	0.39	0.01
802.11be_20	Full	98.48	0.07	0.39	0.01
	26 RU	98.47	0.07	0.39	0.01
	52 RU	98.47	0.07	0.39	0.01
	106 RU	98.39	0.07	0.39	0.01
	52+26 MRU	98.54	0.06	0.39	0.01
	106+26 MRU	98.47	0.07	0.39	0.01
802.11be_40	Full	98.47	0.07	0.39	0.01
	242 RU	98.47	0.07	0.39	0.01
802.11be_80	Full	98.48	0.07	0.39	0.01
	484 RU	98.47	0.07	0.39	0.01
	484+242 MRU	97.05	0.13	0.18	1.00
802.11be_160	Full	98.55	0.06	0.39	0.01
	996 RU	98.39	0.07	0.39	0.01
	996+484 MRU	97.05	0.13	0.18	1.00
	996+484+242 MRU	98.94	0.05	0.06	0.01

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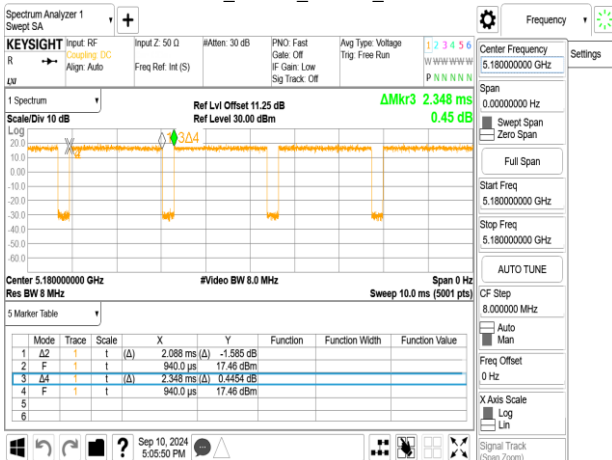
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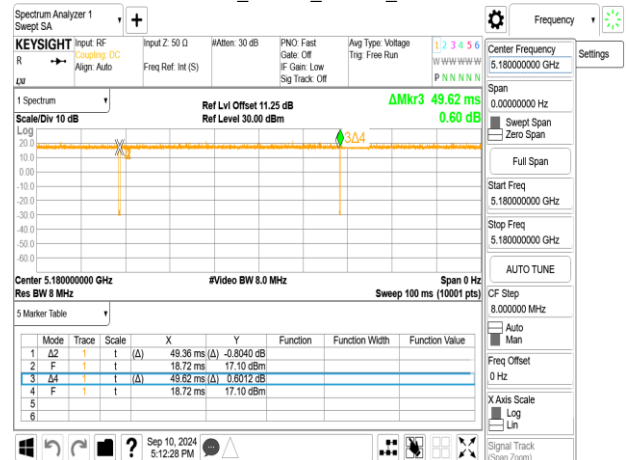
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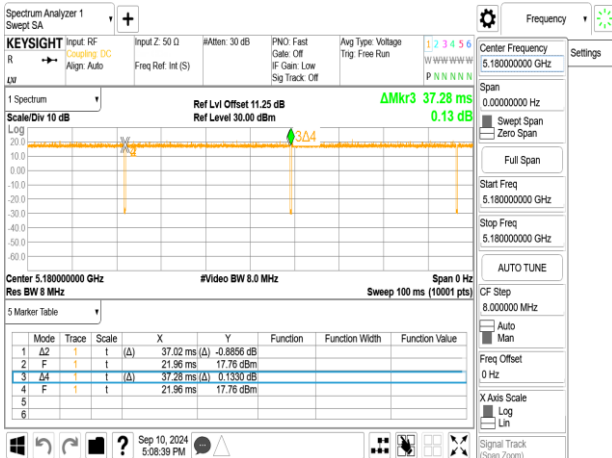
802.11a_20MHz_ChainB_5180MHz



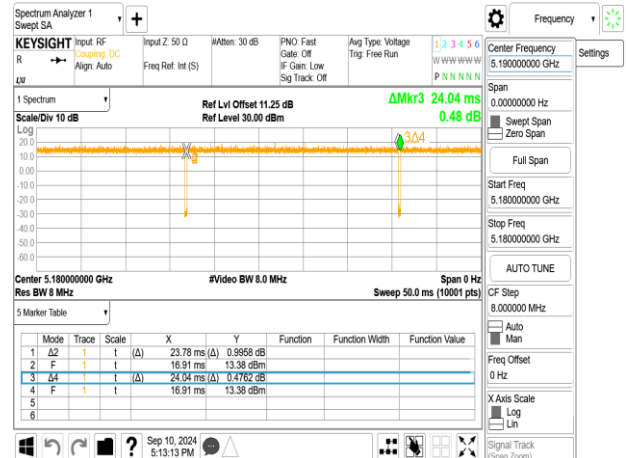
802.11ac_20MHz_ChainA_5180MHz



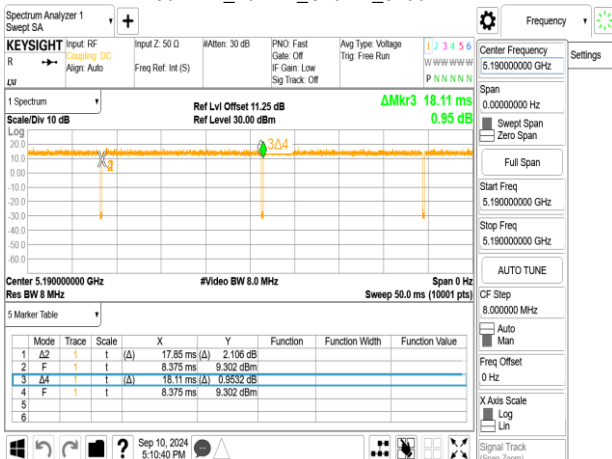
802.11n_20MHz_ChainA_5180MHz



802.11ac_40MHz_ChainA_5190MHz



802.11n_40MHz_ChainA_5190MHz



802.11ac_80MHz_ChainA_5210MHz

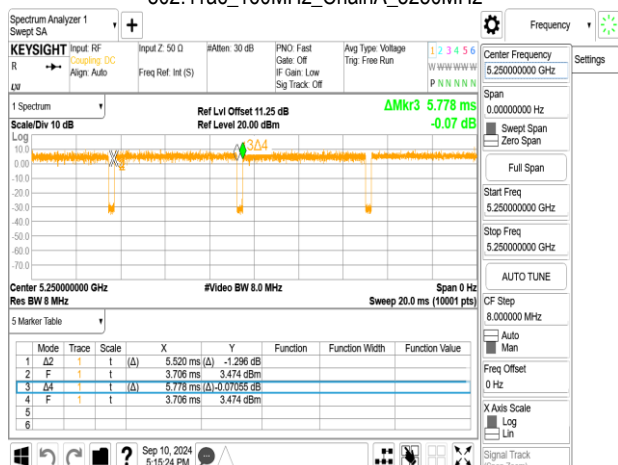


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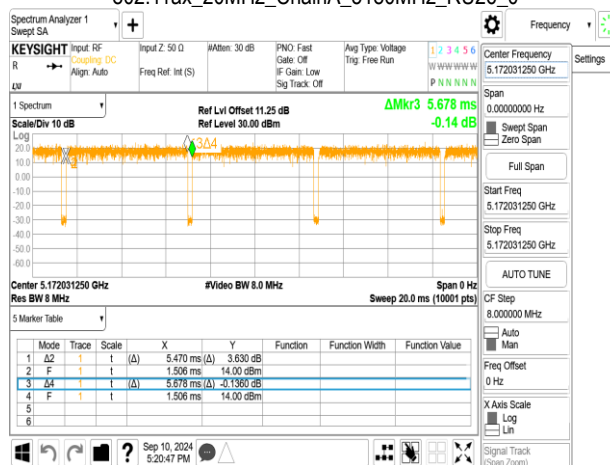
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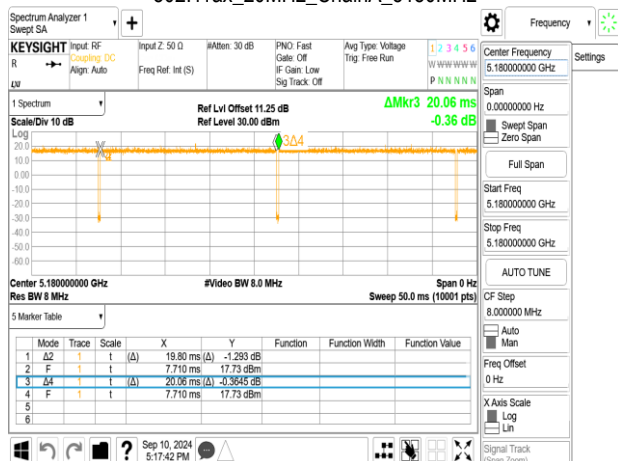
802.11ac_160MHz_ChainA_5250MHz



802.11ax_20MHz_ChainA_5180MHz_RU26_0



802.11ax_20MHz_ChainA_5180MHz



802.11ax_20MHz_ChainA_5180MHz_RU52_37



802.11ax_20MHz_ChainA_5180MHz_RU106_53



802.11ax_40MHz_ChainA_5190MHz

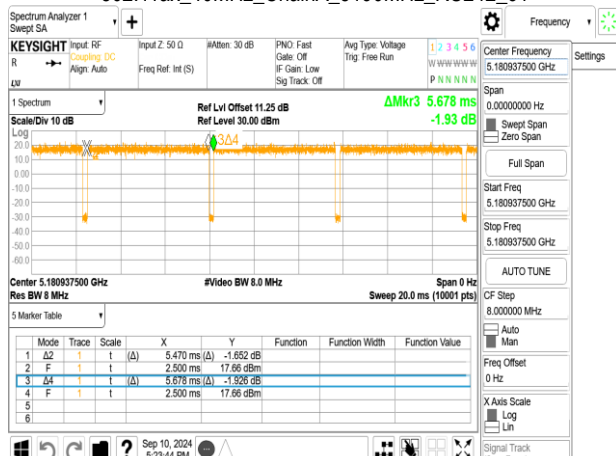


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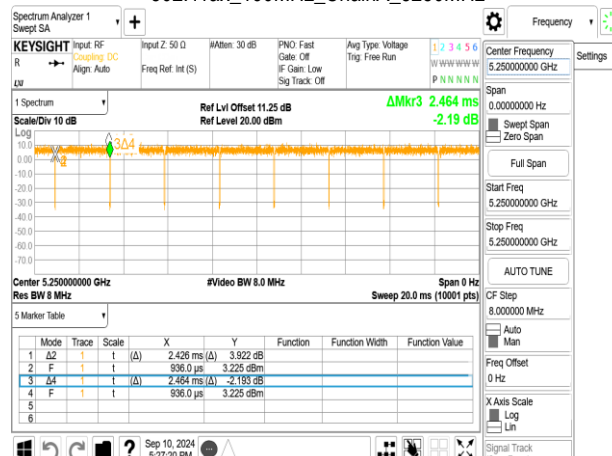
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802.11ax 40MHz ChainA 5190MHz RU242 61



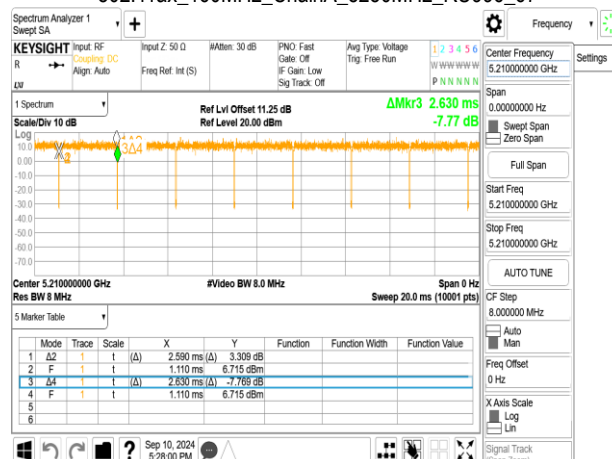
802.11ax 160MHz ChainA 5250MHz



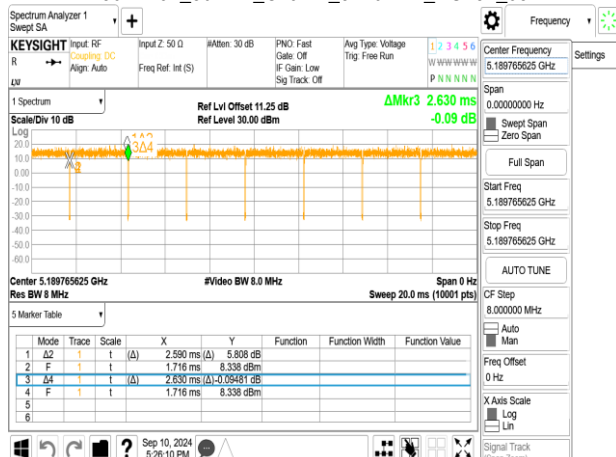
802.11ax 80MHz ChainA 5210MHz



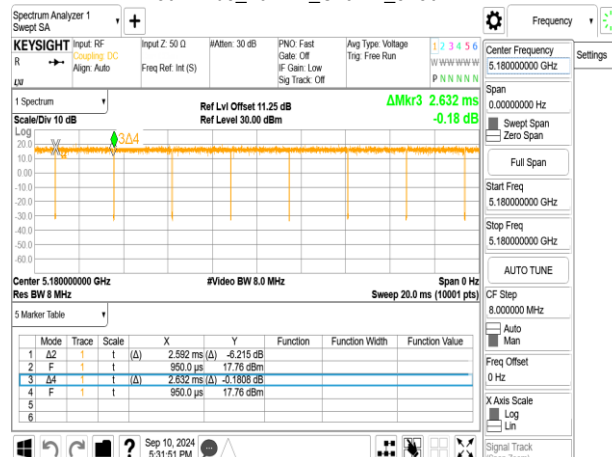
802.11ax 160MHz ChainA 5250MHz RU996 67



802.11ax 80MHz ChainA 5210MHz RU484 65



802.11be 20MHz ChainA 5180MHz



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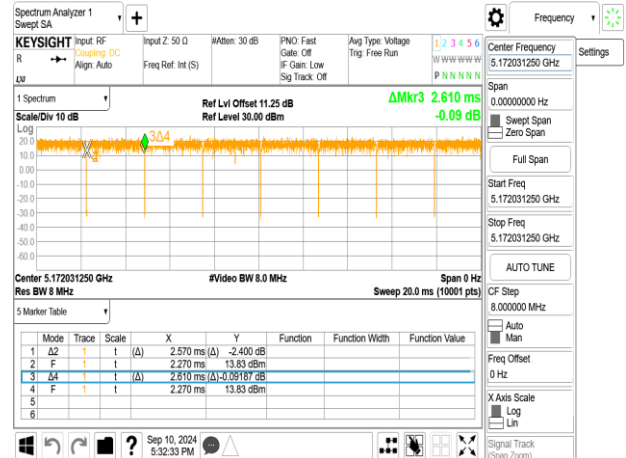
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802.11be_20MHz_ChainA_5180MHz_106+26_MRU1



802.11be_20MHz_ChainA_5180MHz_RU26_0



802.11be_20MHz_ChainA_5180MHz_52+26_MRU1



802.11be_20MHz_ChainA_5180MHz_RU52_37



802.11be_20MHz_ChainA_5180MHz_RU106_53



802.11be_40MHz_ChainA_5190MHz

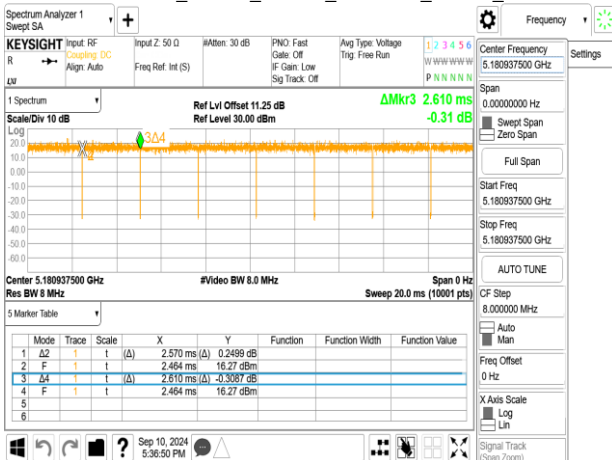


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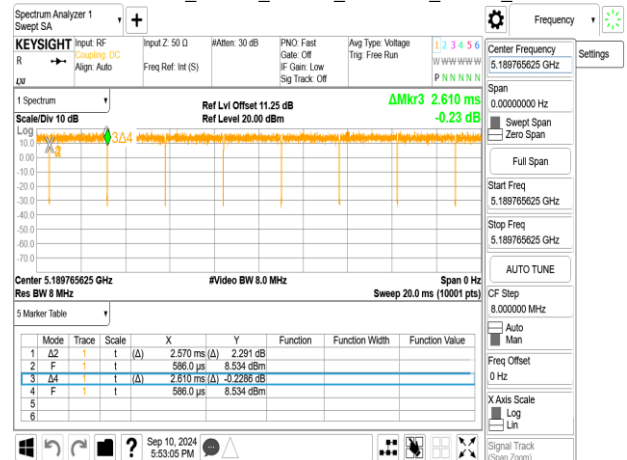
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802.11be_40MHz_ChainA_5190MHz_RU242_61



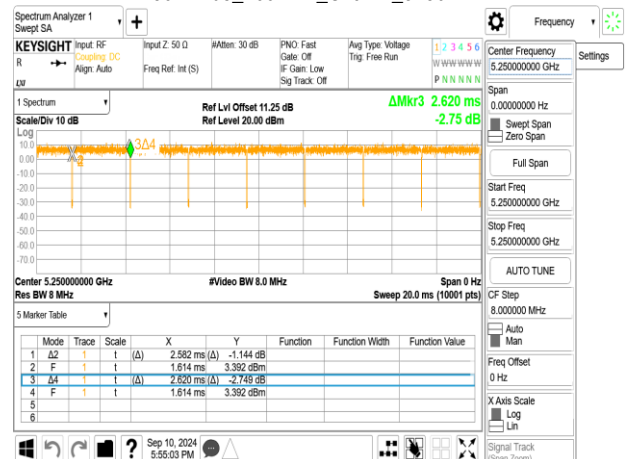
802.11be_80MHz_ChainA_5210MHz_RU484_65



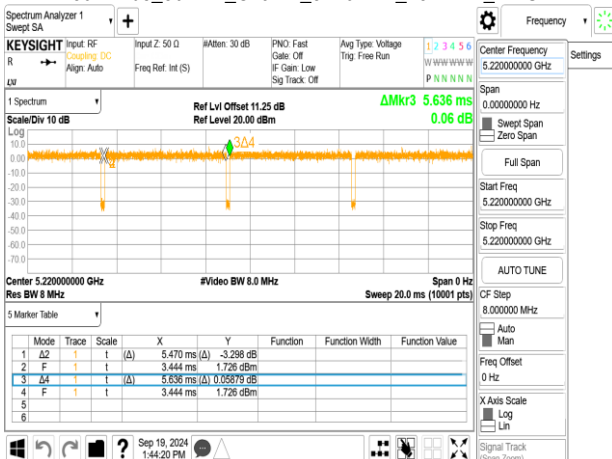
802.11be_80MHz_ChainA_5210MHz



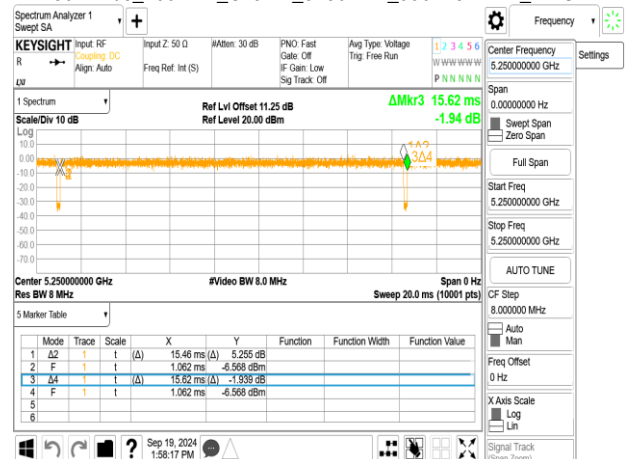
802.11be_160MHz_ChainA_5250MHz



802.11be_80MHz_ChainA_5210MHz_484+242_MRU1



802.11be_160MHz_ChainA_5250MHz_996+484+242_MRU1

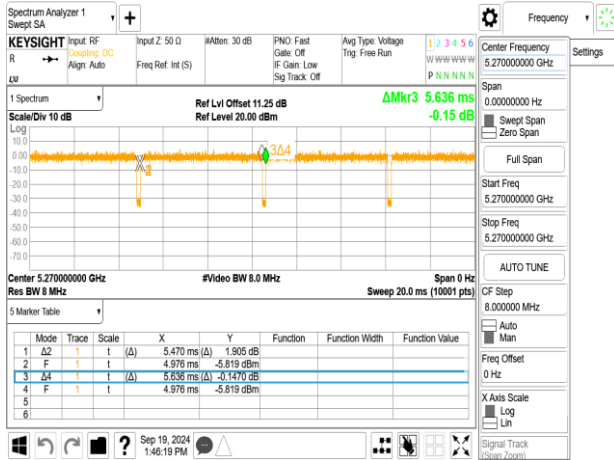


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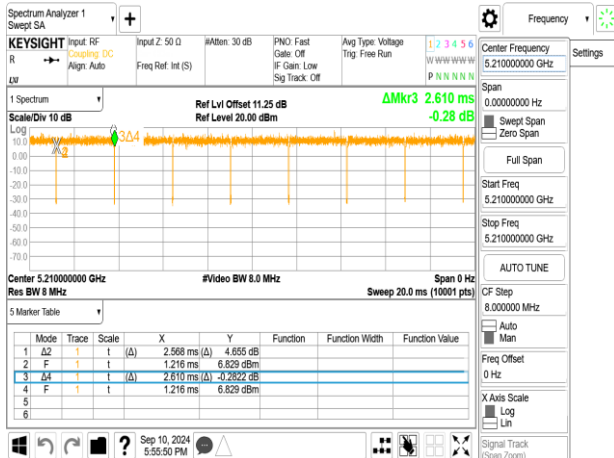
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802.11be_160MHz_ChainA_5250MHz_996+484_MRU1



802.11be_160MHz_ChainA_5250MHz_RU996_67



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

Mode: Chain A

802.11a_ChA

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	10.5	11.884	10.75	23.98	PASS
44	5220	6	10.5	12.189	10.86	23.98	PASS
48	5240	6	10.5	12.049	10.81	23.98	PASS
52	5260	6	10.5	12.245	10.88	23.98	PASS
60	5300	6	10.5	12.387	10.93	23.98	PASS
64	5320	6	10.5	11.966	10.78	23.98	PASS
100	5500	6	10	10.813	10.34	23.98	PASS
116	5580	6	10	11.219	10.50	23.98	PASS
140	5700	6	10	10.518	10.22	23.98	PASS
144	5720(U-NII 2C)	6	10	7.547	8.78	23.15	PASS
144	5720 (U-NII 3)	6	10	2.947	4.69	30	PASS
149	5745	6	10.5	12.273	10.89	30	PASS
157	5785	6	10.5	12.617	11.01	30	PASS
165	5825	6	10.5	12.021	10.80	30	PASS
169	5845 (U-NII 3)	6	10.5	10.758	10.32	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	6	10.5	1.967	2.94	30	PASS
173	5865	6	10.5	20.228	13.06	30	PASS
177	5885	6	10.5	19.996	13.01	30	PASS

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Mode: Chain B

802.11a_ChB

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	10.5	11.994	10.79	23.98	PASS
44	5220	6	10.5	12.444	10.95	23.98	PASS
48	5240	6	10.5	12.472	10.96	23.98	PASS
52	5260	6	10.5	12.675	11.03	23.98	PASS
60	5300	6	10.5	12.444	10.95	23.98	PASS
64	5320	6	10.5	12.301	10.90	23.98	PASS
100	5500	6	10	11.401	10.57	23.98	PASS
116	5580	6	10	11.586	10.64	23.98	PASS
140	5700	6	10	10.863	10.36	23.98	PASS
144	5720(U-NII 2C)	6	10	7.843	8.94	23.3	PASS
144	5720 (U-NII 3)	6	10	3.222	5.08	30	PASS
149	5745	6	10.5	12.330	10.91	30	PASS
157	5785	6	10.5	12.675	11.03	30	PASS
165	5825	6	10.5	12.189	10.86	30	PASS
169	5845 (U-NII 3)	6	10.5	10.286	10.12	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845 (U-NII 4)	6	10.5	3.016	4.79	30	PASS
173	5865	6	10.5	20.747	13.17	30	PASS
177	5885	6	10.5	20.699	13.16	30	PASS

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Mode: Chain A+ Chain B

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				ChA	ChB				
36	5180	MCS0	10.5	10.16	10.11	20.634	13.15	23.98	PASS
44	5220	MCS0	10.5	10.27	10.23	21.188	13.26	23.98	PASS
48	5240	MCS0	10.5	10.20	10.31	21.214	13.27	23.98	PASS
52	5260	MCS0	10.5	10.23	10.37	21.436	13.31	23.98	PASS
60	5300	MCS0	10.5	10.29	10.31	21.433	13.31	23.98	PASS
64	5320	MCS0	10.5	10.28	10.11	20.925	13.21	23.98	PASS
100	5500	MCS0	10	9.91	9.71	19.151	12.82	23.98	PASS
116	5580	MCS0	10	9.97	9.83	19.550	12.91	23.98	PASS
140	5700	MCS0	10	9.57	9.74	18.478	12.67	23.98	PASS
144	5720(U-NII 2C)	MCS0	10	8.10	8.32	13.246	11.22	23.26	PASS
144	5720 (U-NII 3)	MCS0	10	4.23	4.41	5.405	7.33	30	PASS
149	5745	MCS0	10.5	10.28	10.26	21.285	13.28	30	PASS
157	5785	MCS0	10.5	10.34	10.39	21.756	13.38	30	PASS
165	5825	MCS0	10.5	10.17	10.21	20.897	13.20	30	PASS
169	5845 (U-NII 3)	MCS0	10.5	9.04	9.09	16.125	12.08	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				ChA	ChB				
169	5845 (U-NII 4)	MCS0	10.5	3.45	3.52	7.682	8.85	30	PASS
173	5865	MCS0	10.5	10.16	10.08	35.409	15.49	30	PASS
177	5885	MCS0	10.5	10.10	10.06	35.084	15.45	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
				ChA	ChB				
38	5190	MCS0	10.5	10.12	10.09	20.504	13.12	23.98	PASS
46	5230	MCS0	10.5	10.14	10.24	20.910	13.20	23.98	PASS
54	5270	MCS0	10.5	10.21	10.32	21.275	13.28	23.98	PASS
62	5310	MCS0	10.5	10.30	10.16	21.105	13.24	23.98	PASS
102	5510	MCS0	10	9.91	9.67	19.076	12.80	23.98	PASS
110	5550	MCS0	10	9.92	9.83	19.447	12.89	23.98	PASS
134	5670	MCS0	10	9.74	9.76	18.894	12.76	23.98	PASS
142	5710(U-NII 2C)	MCS0	10	8.90	9.03	15.761	11.98	23.98	PASS
142	5710 (U-NII 3)	MCS0	10	1.40	1.63	2.834	4.52	30	PASS
151	5755	MCS0	10.5	10.26	10.29	21.322	13.29	30	PASS
159	5795	MCS0	10.5	10.36	10.42	21.895	13.40	30	PASS
167	5835 (U-NII 3)	MCS0	10.5	9.71	9.81	18.938	12.77	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				ChA	ChB				
167	5835 (U-NII 4)	MCS0	10.5	-0.11	0.10	3.438	5.36	30	PASS
175	5875	MCS0	10.5	10.17	10.14	36.048	15.57	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
				ChA	ChB				
36	5180	MCS0	10.5	10.15	10.10	20.597	13.14	23.98	PASS
44	5220	MCS0	10.5	10.25	10.19	21.053	13.23	23.98	PASS
48	5240	MCS0	10.5	10.16	10.28	21.054	13.23	23.98	PASS
52	5260	MCS0	10.5	10.22	10.33	21.322	13.29	23.98	PASS
60	5300	MCS0	10.5	10.27	10.29	21.345	13.29	23.98	PASS
64	5320	MCS0	10.5	10.25	10.09	20.815	13.18	23.98	PASS
100	5500	MCS0	10	9.89	9.68	19.051	12.80	23.98	PASS
116	5580	MCS0	10	9.96	9.82	19.514	12.90	23.98	PASS
140	5700	MCS0	10	9.55	9.73	18.424	12.65	23.98	PASS
144	5720(U-NII 2C)	MCS0	10	8.10	8.29	13.206	11.21	23.26	PASS
144	5720 (U-NII 3)	MCS0	10	4.23	4.38	5.389	7.31	30	PASS
149	5745	MCS0	10.5	10.25	10.22	21.125	13.25	30	PASS
157	5785	MCS0	10.5	10.33	10.38	21.717	13.37	30	PASS
165	5825	MCS0	10.5	10.11	10.19	20.716	13.16	30	PASS
169	5845 (U-NII 3)	MCS0	10.5	9.02	9.06	16.041	12.05	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				ChA	ChB				
169	5845 (U-NII 4)	MCS0	10.5	3.43	3.49	7.642	8.83	30	PASS
173	5865	MCS0	10.5	10.11	10.09	35.263	15.47	30	PASS
177	5885	MCS0	10.5	10.08	10.04	34.940	15.43	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
				ChA	ChB				
38	5190	MCS0	10.5	10.15	10.05	20.454	13.11	23.98	PASS
46	5230	MCS0	10.5	10.13	10.22	20.810	13.18	23.98	PASS
54	5270	MCS0	10.5	10.21	10.30	21.197	13.26	23.98	PASS
62	5310	MCS0	10.5	10.30	10.13	21.005	13.22	23.98	PASS
102	5510	MCS0	10	9.86	9.71	19.024	12.79	23.98	PASS
110	5550	MCS0	10	9.90	9.81	19.332	12.86	23.98	PASS
134	5670	MCS0	10	9.75	9.73	18.826	12.75	23.98	PASS
142	5710(U-NII 2C)	MCS0	10	8.89	9.00	15.685	11.95	23.98	PASS
142	5710 (U-NII 3)	MCS0	10	1.38	1.60	2.820	4.50	30	PASS
151	5755	MCS0	10.5	10.24	10.27	21.196	13.26	30	PASS
159	5795	MCS0	10.5	10.34	10.40	21.765	13.38	30	PASS
167	5835 (U-NII 3)	MCS0	10.5	9.70	9.79	18.847	12.75	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				ChA	ChB				
167	5835 (U-NII 4)	MCS0	10.5	-0.13	0.07	3.421	5.34	30	PASS
175	5875	MCS0	10.5	10.18	10.11	35.875	15.55	30	PASS

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CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				ChA	ChB				
42	5210	MCS0	10.5	10.21	10.25	21.095	13.24	23.98	PASS
58	5290	MCS0	10.5	10.30	10.31	21.462	13.32	23.98	PASS
106	5530	MCS0	10	9.88	9.80	19.284	12.85	23.98	PASS
122	5610	MCS0	10	9.90	9.81	19.351	12.87	23.98	PASS
138	5690(U-NII 2C)	MCS0	10	9.27	9.43	17.218	12.36	23.98	PASS
138	5690 (U-NII 3)	MCS0	10	-1.34	-1.16	1.500	1.76	30	PASS
155	5775	MCS0	10.5	10.28	10.46	21.791	13.38	30	PASS
171	5855 (U-NII 3)	MCS0	10.5	6.25	6.53	8.715	9.40	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				ChA	ChB				
171	5855 (U-NII 4)	MCS0	10.5	7.86	7.69	20.655	13.15	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
				ChA	ChB				
50	5250	MCS0	10.5	10.22	10.30	21.228	13.27	23.98	PASS
114	5570	MCS0	10	10.01	10.05	20.132	13.04	23.98	PASS
163	5815 (U-NII 3)	MCS0	10.5	9.01	9.09	16.072	12.06	30	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				ChA	ChB				
163	5815 (U-NII 4)	MCS0	10.5	4.50	4.48	9.686	9.86	30	PASS

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CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					ChA	ChB				
36	5180	MCS0	full	10.5	10.14	10.16	20.688	13.16	23.98	PASS
		MCS0	26/0	2	2.29	2.23	3.367	5.27	23.98	PASS
		MCS0	52/37	4.5	4.78	4.73	5.980	7.77	23.98	PASS
		MCS0	106/53	7	7.27	7.23	10.623	10.26	23.98	PASS
44	5220	MCS0	full	10.5	10.28	10.26	21.267	13.28	23.98	PASS
48	5240	MCS0	full	10.5	10.23	10.33	21.318	13.29	23.98	PASS
52	5260	MCS0	full	10.5	10.27	10.38	21.540	13.33	23.98	PASS
60	5300	MCS0	full	10.5	10.30	10.35	21.539	13.33	23.98	PASS
64	5320	MCS0	full	10.5	10.31	10.14	21.052	13.23	23.98	PASS
		MCS0	26/8	2	2.31	2.18	3.356	5.26	23.98	PASS
		MCS0	52/40	4.5	4.89	4.72	6.051	7.82	23.98	PASS
		MCS0	106/54	7	7.42	7.34	10.946	10.39	23.98	PASS
100	5500	MCS0	full	10	9.94	9.70	19.181	12.83	23.98	PASS
		MCS0	26/0	2	2.74	2.46	3.643	5.61	23.98	PASS
		MCS0	52/37	4.5	5.23	4.94	6.456	8.10	23.98	PASS
		MCS0	106/53	7	7.61	7.36	11.218	10.50	23.98	PASS
116	5580	MCS0	full	10	9.98	9.86	19.622	12.93	23.98	PASS
140	5700	MCS0	full	10	9.61	9.78	18.634	12.70	23.91	PASS
		MCS0	26/8	2	2.26	2.34	3.398	5.31	23.91	PASS
		MCS0	52/40	4.5	4.84	4.88	6.127	7.87	23.91	PASS
		MCS0	106/54	7	7.32	7.38	10.870	10.36	23.91	PASS
144	5720(U-NII 2C)	MCS0	full	10	8.18	8.46	13.596	11.33	23.03	PASS
144	5720 (U-NII 3)	MCS0	full	10	4.04	4.18	5.149	7.12	30	PASS
149	5745	MCS0	full	10.5	10.30	10.27	21.341	13.29	30	PASS
		MCS0	26/0	2	2.39	2.35	3.453	5.38	30	PASS
		MCS0	52/37	4.5	4.94	4.89	6.205	7.93	30	PASS
		MCS0	106/53	7	7.41	7.42	11.034	10.43	30	PASS
157	5785	MCS0	full	10.5	10.40	10.41	21.939	13.41	30	PASS
165	5825	MCS0	full	10.5	10.19	10.22	20.952	13.21	30	PASS
		MCS0	26/8	1.5	1.81	1.85	3.049	4.84	30	PASS
		MCS0	52/40	4.5	4.81	4.89	6.113	7.86	30	PASS
		MCS0	106/54	7.5	7.66	7.77	11.824	10.73	30	PASS
169	5845 (U-NII 3)	MCS0	full	10.5	9.01	9.13	16.151	12.08	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
169	5845 (U-NII 4)	MCS0	full	10.5	3.64	3.52	7.855	8.95	30	PASS
173	5865	MCS0	full	10.5	10.17	10.12	35.583	15.51	30	PASS
		MCS0	26/0	2	2.27	2.19	5.758	7.60	30	PASS
		MCS0	52/37	4.5	4.79	4.73	10.310	10.13	30	PASS
		MCS0	106/53	7.5	7.72	7.70	20.335	13.08	30	PASS
177	5885	MCS0	full	10.5	10.12	10.06	35.135	15.46	30	PASS
		MCS0	26/8	2	2.17	2.06	5.608	7.49	30	PASS
		MCS0	52/40	4.5	4.68	4.60	10.029	10.01	30	PASS
		MCS0	106/54	7.5	7.66	7.58	19.919	12.99	30	PASS

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CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					ChA	ChB				
38	5190	MCS0	full	10.5	10.15	10.11	20.591	13.14	23.98	PASS
		MCS0	242/61	6.5	6.39	6.48	8.805	9.45	23.98	PASS
46	5230	MCS0	full	10.5	10.15	10.26	20.952	13.21	23.98	PASS
54	5270	MCS0	full	10.5	10.24	10.37	21.440	13.31	23.98	PASS
62	5310	MCS0	full	10.5	10.31	10.17	21.122	13.25	23.98	PASS
		MCS0	242/62	7	6.90	7.18	10.126	10.05	23.98	PASS
102	5510	MCS0	full	10	9.88	9.74	19.131	12.82	23.98	PASS
		MCS0	242/61	6	6.35	6.17	8.459	9.27	23.98	PASS
110	5550	MCS0	full	10	9.92	9.86	19.131	12.90	23.98	PASS
134	5670	MCS0	full	10	9.76	9.78	18.953	12.78	23.98	PASS
		MCS0	242/62	6.5	6.76	6.71	9.435	9.75	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	10	8.93	9.12	15.970	12.03	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	10	1.42	1.26	2.725	4.35	30	PASS
151	5755	MCS0	full	10.5	10.28	10.31	21.389	13.30	30	PASS
		MCS0	242/61	6.5	6.68	6.74	9.381	9.72	30	PASS
159	5795	MCS0	full	10.5	10.39	10.45	22.014	13.43	30	PASS
		MCS0	242/62	7	7.36	7.35	10.882	10.37	30	PASS
167	5835 (U-NII 3)	MCS0	full	10.5	9.80	10.00	19.545	12.91	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
167	5835 (U-NII 4)	MCS0	full	10.5	-0.59	-2.18	2.546	4.06	30	PASS
175	5875	MCS0	full	10.5	10.22	10.15	35.910	15.55	30	PASS
		MCS0	242/61	7	7.30	7.06	18.006	12.55	30	PASS
		MCS0	242/62	7	7.29	7.23	18.334	12.63	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
					ChA	ChB				
42	5210	MCS0	full	10.5	10.25	10.26	21.193	13.26	23.98	PASS
		MCS0	484/65	6	6.14	6.08	8.160	9.12	23.98	PASS
58	5290	MCS0	full	10.5	10.31	10.33	21.512	13.33	23.98	PASS
		MCS0	484/66	7.5	7.75	7.63	11.741	10.70	23.98	PASS
106	5530	MCS0	full	10	9.91	9.82	19.373	12.87	23.98	PASS
		MCS0	484/65	6	6.32	6.21	8.457	9.27	23.98	PASS
122	5610	MCS0	full	10	9.90	9.85	19.417	12.88	23.98	PASS
		MCS0	484/66	6.5	6.85	6.72	9.533	9.79	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	10	9.37	9.47	17.486	12.43	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	10	-1.94	-1.69	1.317	1.20	30	PASS
155	5775	MCS0	full	10.5	10.30	10.48	21.866	13.40	30	PASS
		MCS0	484/65	6	6.22	6.24	8.388	9.24	30	PASS
		MCS0	484/66	6.5	6.80	6.86	9.631	9.84	30	PASS
171	5855 (U-NII 3)	MCS0	full	10.5	6.56	6.63	9.125	9.60	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
171	5855 (U-NII 4)	MCS0	full	10.5	7.74	7.79	20.570	13.13	30	PASS

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CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					ChA	ChB				
50	5250	MCS0	full	10.5	10.19	10.36	21.299	13.28	23.98	PASS
		MCS0	996/67	6	6.45	6.44	8.821	9.46	23.98	PASS
		MCS0	996/S67	6.5	6.99	7.00	10.012	10.01	23.98	PASS
114	5570	MCS0	full	10	10.04	10.06	20.220	13.06	23.98	PASS
		MCS0	996/67	6.5	6.97	6.95	9.932	9.97	23.98	PASS
		MCS0	996/S67	6.5	7.01	6.87	9.888	9.95	23.98	PASS
163	5815 (U-NII 3)	MCS0	full	10.5	8.99	9.15	16.137	12.08	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
163	5815 (U-NII 4)	MCS0	full	10.5	4.52	4.50	9.738	9.88	30	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
					ChA	ChB				
36	5180	MCS0	full	10.5	10.17	10.19	20.830	13.19	23.98	PASS
		MCS0	26/0	2	2.31	2.23	3.371	5.28	23.98	PASS
		MCS0	52/37	4.5	4.81	4.75	6.008	7.79	23.98	PASS
		MCS0	106/53	7	7.29	7.24	10.656	10.28	23.98	PASS
		MCS0	52+26 MRU1	6	6.28	6.22	8.442	9.26	23.98	PASS
		MCS0	106+26 MRU1	8	8.23	8.20	13.250	11.22	23.98	PASS
44	5220	MCS0	full	10.5	10.30	10.28	21.364	13.30	23.98	PASS
48	5240	MCS0	full	10.5	10.26	10.37	21.489	13.32	23.98	PASS
52	5260	MCS0	full	10.5	10.29	10.41	21.663	13.36	23.98	PASS
60	5300	MCS0	full	10.5	10.33	10.37	21.661	13.36	23.98	PASS
64	5320	MCS0	full	10.5	10.35	10.18	21.245	13.27	23.98	PASS
		MCS0	26/8	2	2.36	2.17	3.368	5.27	23.98	PASS
		MCS0	52/40	4.5	4.92	4.74	6.079	7.84	23.98	PASS
		MCS0	106/54	7	7.47	7.32	10.981	10.41	23.98	PASS
		MCS0	52+26 MRU3	6	6.50	6.36	8.800	9.44	23.98	PASS
		MCS0	106+26 MRU2	8	8.46	8.29	13.750	11.38	23.98	PASS
100	5500	MCS0	full	10	9.97	9.74	19.335	12.86	23.98	PASS
		MCS0	26/0	2	2.76	2.47	3.651	5.62	23.98	PASS
		MCS0	52/37	4.5	5.23	4.99	6.485	8.12	23.98	PASS
		MCS0	106/53	7	7.61	7.38	11.239	10.51	23.98	PASS
		MCS0	52+26 MRU1	5.5	6.10	5.88	7.953	9.01	23.98	PASS
		MCS0	106+26 MRU1	7.5	8.09	7.86	12.542	10.98	23.98	PASS
116	5580	MCS0	full	10	10.02	9.89	19.780	12.96	23.98	PASS
140	5700	MCS0	full	10	9.61	9.80	18.676	12.71	23.98	PASS
		MCS0	26/8	2	2.27	2.37	3.410	5.33	23.98	PASS
		MCS0	52/40	4.5	4.84	4.90	6.134	7.88	23.98	PASS
		MCS0	106/54	7	7.33	7.39	10.892	10.37	23.98	PASS
		MCS0	52+26 MRU3	5.5	5.85	5.92	7.761	8.90	23.98	PASS
		MCS0	106+26 MRU2	8	8.28	8.36	13.575	11.33	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	10	8.25	8.46	13.688	11.36	23.06	PASS
144	5720(U-NII 3)	MCS0	full	10	4.01	4.36	5.251	7.20	30	PASS
149	5745	MCS0	full	10.5	10.33	10.34	21.587	13.34	30	PASS
		MCS0	26/0	2	2.41	2.36	3.461	5.39	30	PASS
		MCS0	52/37	4.5	4.95	4.91	6.219	7.94	30	PASS
		MCS0	106/53	7	7.43	7.42	11.056	10.44	30	PASS
		MCS0	52+26 MRU1	6	6.44	6.43	8.809	9.45	30	PASS
		MCS0	106+26 MRU1	8	8.42	8.39	13.843	11.41	30	PASS
157	5785	MCS0	full	10.5	10.44	10.48	22.217	13.47	30	PASS
165	5825	MCS0	full	10.5	10.26	10.35	21.439	13.31	30	PASS
		MCS0	26/8	1.5	1.84	1.85	3.057	4.85	30	PASS
		MCS0	52/40	4.5	4.82	4.91	6.127	7.87	30	PASS
		MCS0	106/54	7.5	7.70	7.78	11.888	10.75	30	PASS
		MCS0	52+26 MRU3	6	6.25	6.35	8.540	9.31	30	PASS
		MCS0	106+26 MRU2	8	8.20	8.28	13.327	11.25	30	PASS
169	5845(U-NII 3)	MCS0	full	10.5	9.18	9.73	17.674	12.47	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
169	5845(U-NII 4)	MCS0	full	10.5	3.14	0.49	5.477	7.39	30	PASS
173	5865	MCS0	full	10.5	10.20	10.15	35.827	15.54	30	PASS
		MCS0	26/0	2	2.28	2.21	5.771	7.61	30	PASS
		MCS0	52/37	4.5	4.80	4.76	10.345	10.15	30	PASS
		MCS0	106/53	7.5	7.71	7.72	20.352	13.09	30	PASS
		MCS0	52+26 MRU1	6.5	6.76	6.72	16.272	12.11	30	PASS
		MCS0	106+26 MRU1	8.5	8.73	8.70	25.600	14.08	30	PASS
177	5885	MCS0	full	10.5	10.14	10.09	35.335	15.48	30	PASS
		MCS0	26/8	2	2.18	2.09	5.627	7.50	30	PASS
		MCS0	52/40	4.5	4.70	4.61	10.052	10.02	30	PASS
		MCS0	106/54	7.5	7.67	7.59	19.958	13.00	30	PASS
		MCS0	52+26 MRU3	6.5	6.67	6.61	15.902	12.01	30	PASS
		MCS0	106+26 MRU2	8.5	8.66	8.59	25.076	13.99	30	PASS

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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
					ChA	ChB				
38	5190	MCS0	full	10.5	10.19	10.14	20.760	13.17	23.98	PASS
		MCS0	242/61	6.5	6.43	6.50	8.856	9.47	23.98	PASS
46	5230	MCS0	full	10.5	10.19	10.28	21.098	13.24	23.98	PASS
54	5270	MCS0	full	10.5	10.27	10.40	21.591	13.34	23.98	PASS
62	5310	MCS0	full	10.5	10.32	10.19	21.197	13.26	23.98	PASS
		MCS0	242/62	7	6.93	7.18	10.149	10.06	23.98	PASS
102	5510	MCS0	full	10	9.92	9.78	19.310	12.86	23.98	PASS
		MCS0	242/61	6	6.39	6.16	8.480	9.28	23.98	PASS
110	5550	MCS0	full	10	9.94	9.88	19.310	12.92	23.98	PASS
134	5670	MCS0	full	10	9.78	9.80	19.043	12.80	23.98	PASS
		MCS0	242/62	6.5	6.78	6.72	9.457	9.76	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	10	9.01	9.17	16.212	12.10	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	10	1.08	1.18	2.594	4.14	30	PASS
151	5755	MCS0	full	10.5	10.31	10.34	21.539	13.33	30	PASS
		MCS0	242/61	6.5	6.71	6.75	9.413	9.74	30	PASS
159	5795	MCS0	full	10.5	10.44	10.52	22.323	13.49	30	PASS
		MCS0	242/62	7	7.38	7.36	10.908	10.38	30	PASS
167	5835 (U-NII 3)	MCS0	full	10.5	9.89	10.07	19.904	12.99	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
167	5835 (U-NII 4)	MCS0	full	10.5	-0.80	-2.17	2.477	3.94	30	PASS
175	5875	MCS0	full	10.5	10.24	10.18	36.121	15.58	30	PASS
		MCS0	242/61	7	7.30	7.08	18.025	12.56	30	PASS
		MCS0	242/62	7	7.29	7.25	18.355	12.64	30	PASS

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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
					ChA	ChB				
42	5210	MCS0	full	10.5	10.31	10.29	21.413	13.31	23.98	PASS
		MCS0	484/65	6	6.18	6.12	8.236	9.16	23.98	PASS
		MCS0	484+242 MRU4	8.5	8.70	8.66	14.758	11.69	23.98	PASS
58	5290	MCS0	full	10.5	10.35	10.37	21.711	13.37	23.98	PASS
		MCS0	484/66	7.5	7.79	7.67	11.851	10.74	23.98	PASS
		MCS0	484+242 MRU1	9.5	9.49	9.44	17.682	12.48	23.98	PASS
106	5530	MCS0	full	10	9.93	9.88	19.552	12.91	23.98	PASS
		MCS0	484/65	6	6.35	6.24	8.516	9.30	23.98	PASS
		MCS0	484+242 MRU4	8.5	8.86	8.81	15.295	11.85	23.98	PASS
122	5610	MCS0	full	10	9.99	9.92	19.779	12.96	23.98	PASS
		MCS0	484/66	6.5	6.88	6.75	9.600	9.82	23.98	PASS
		MCS0	484+242 MRU1	8.5	8.91	8.78	15.331	11.86	23.98	PASS
138	5690	MCS0	full	10	9.39	9.53	17.679	12.47	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	10	-1.45	-1.07	1.497	1.75	30	PASS
155	5775	MCS0	full	10.5	10.34	10.52	22.069	13.44	30	PASS
		MCS0	484/65	6	6.26	6.27	8.457	9.27	30	PASS
		MCS0	484/66	6.5	6.83	6.90	9.710	9.87	30	PASS
		MCS0	484+242 MRU1	9	9.26	9.40	17.143	12.34	30	PASS
		MCS0	484+242 MRU4	8.5	8.77	8.92	15.332	11.86	30	PASS
171	5855 (U-NII 3)	MCS0	full	10.5	6.61	6.61	9.158	9.62	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
171	5855 (U-NII 4)	MCS0	full	10.5	7.75	7.84	20.723	13.16	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
					ChA	ChB				
50	5250	MCS0	full	10.5	10.27	10.45	21.750	13.37	23.98	PASS
		MCS0	996/67	6	6.49	6.50	8.924	9.51	23.98	PASS
		MCS0	996/S67	6.5	7.03	7.04	10.106	10.05	23.98	PASS
		MCS0	996+484 MRU1	9.5	9.26	9.58	17.512	12.43	23.98	PASS
		MCS0	996+484 MRU2	9	9.00	9.20	16.261	12.11	23.98	PASS
		MCS0	996+484+242 MRU1	9	9.02	9.23	16.341	12.13	23.98	PASS
		MCS0	996+484+242 MRU2	9	8.94	9.17	16.081	12.06	23.98	PASS
114	5570	MCS0	full	10	10.06	10.08	20.341	13.08	23.98	PASS
		MCS0	996/67	6.5	7.01	6.99	10.025	10.01	23.98	PASS
		MCS0	996/S67	6.5	7.05	6.93	10.003	10.00	23.98	PASS
		MCS0	996+484 MRU3	9	9.26	9.27	16.886	12.28	23.98	PASS
		MCS0	996+484 MRU4	9	9.18	9.23	16.655	12.22	23.98	PASS
		MCS0	996+484+242 MRU7	9.5	9.67	9.71	18.606	12.70	23.98	PASS
		MCS0	996+484+242 MRU8	9.5	9.66	9.72	18.607	12.70	23.98	PASS
163	5815 (U-NII 3)	MCS0	full	10.5	9.02	9.13	16.171	12.09	30	PASS
CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
					ChA	ChB				
163	5815 (U-NII 4)	MCS0	full	10.5	4.72	4.68	10.165	10.07	30	PASS

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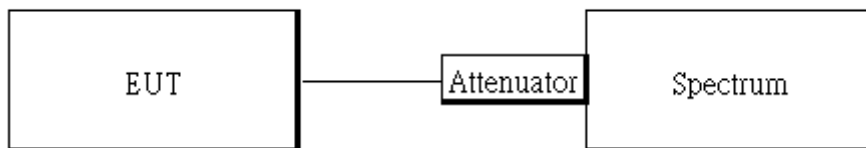
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10 MAXIMUM POWER SPECTRAL DENSITY

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.				

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98% : Record the max. reading.
(2)Duty cycle < 98% : 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:

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.

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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10.4 Measurement Result

Mode: Chain A

POWER DENSITY 802.11a MODE							
Frequency (MHz)	ChA meas PSD (dBm/MHz)	ChB meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-0.134	-	0.51	0.38		11.00 dBm/MHz	-10.62
5220	-0.104	-	0.51	0.41		11.00 dBm/MHz	-10.59
5240	-0.269	-	0.51	0.24		11.00 dBm/MHz	-10.76
5260	0.016	-	0.51	0.53		11.00 dBm/MHz	-10.47
5300	-0.330	-	0.51	0.18		11.00 dBm/MHz	-10.82
5320	-0.221	-	0.51	0.29		11.00 dBm/MHz	-10.71
5500	-0.586	-	0.51	-0.08		11.00 dBm/MHz	-11.08
5580	-0.233	-	0.51	0.28		11.00 dBm/MHz	-10.72
5700	-0.780	-	0.51	-0.27		11.00 dBm/MHz	-11.27
5720 (U-NII 2C)	-0.893	-	0.51	-0.38		11.00 dBm/MHz	-11.38
Frequency (MHz)	ChA meas PSD (dBm/300kHz)	ChB 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)	-7.510	-	0.51	2.22	-4.78	30.00 dBm/500kHz	-34.78
5745	-4.722	-	0.51	2.22	-1.99	30.00 dBm/500kHz	-31.99
5785	-4.870	-	0.51	2.22	-2.14	30.00 dBm/500kHz	-32.14
5825	-5.246	-	0.51	2.22	-2.52	30.00 dBm/500kHz	-32.52
5845 (U-NII 3)	-6.760	-	0.51	2.22	-4.03	30.00 dBm/500kHz	-34.03
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 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)	-3.391	-	0.51	-2.88	-0.56	14.00 dBm/MHz	-16.88
5865	-1.475	-	0.51	-0.97	1.36	14.00 dBm/MHz	-14.97
5885	-1.543	-	0.51	-1.03	1.29	14.00 dBm/MHz	-15.03

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