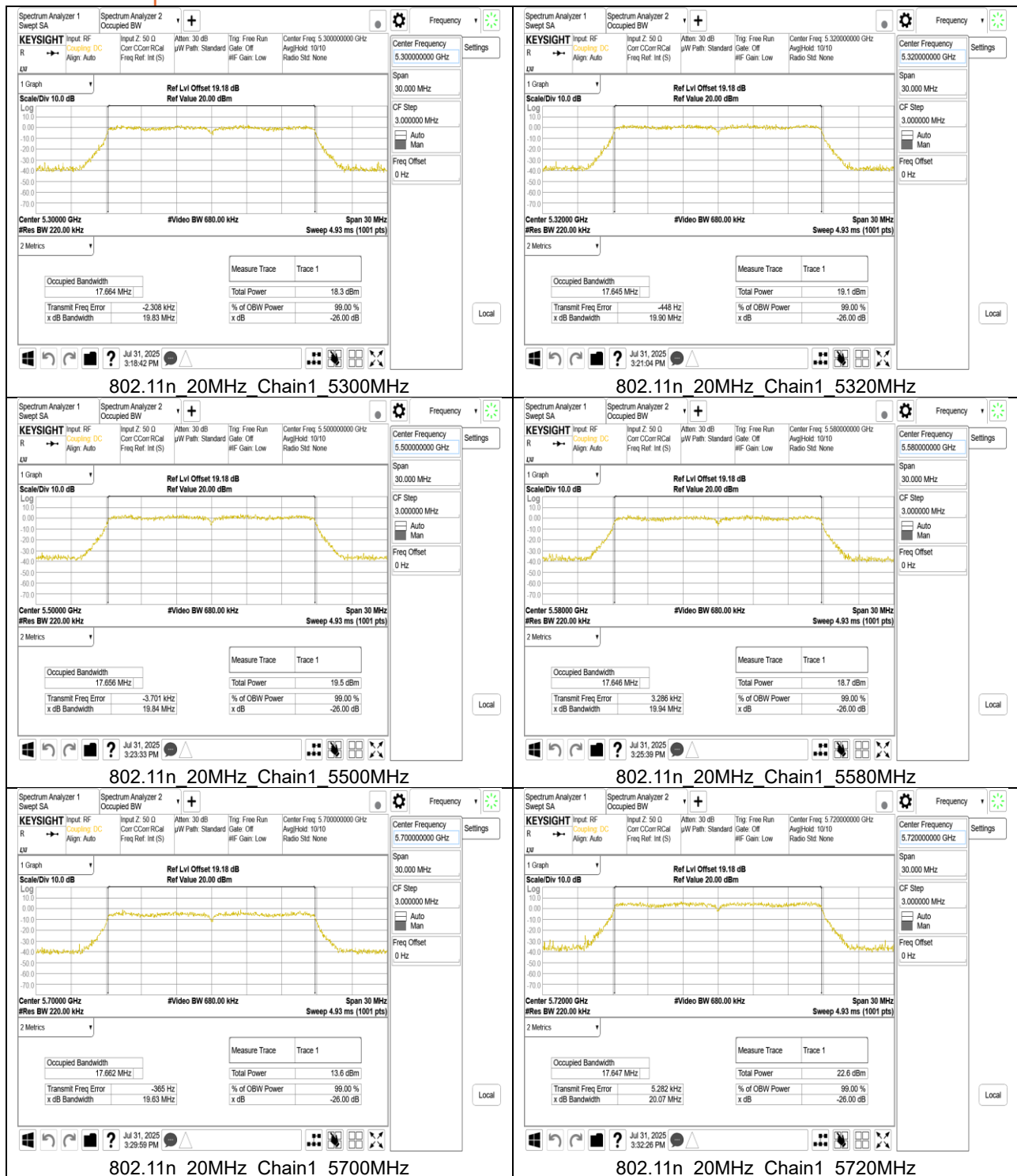




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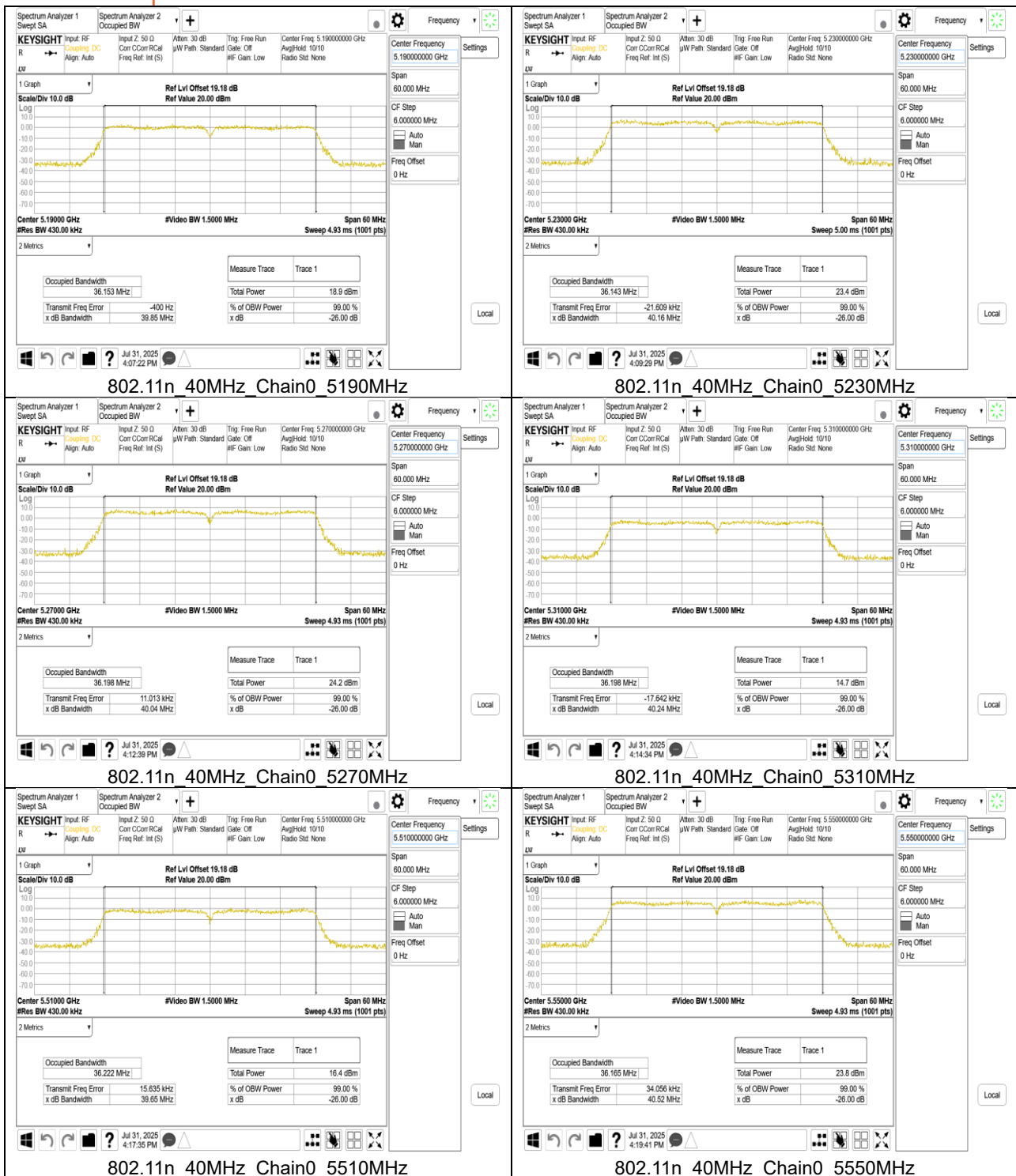
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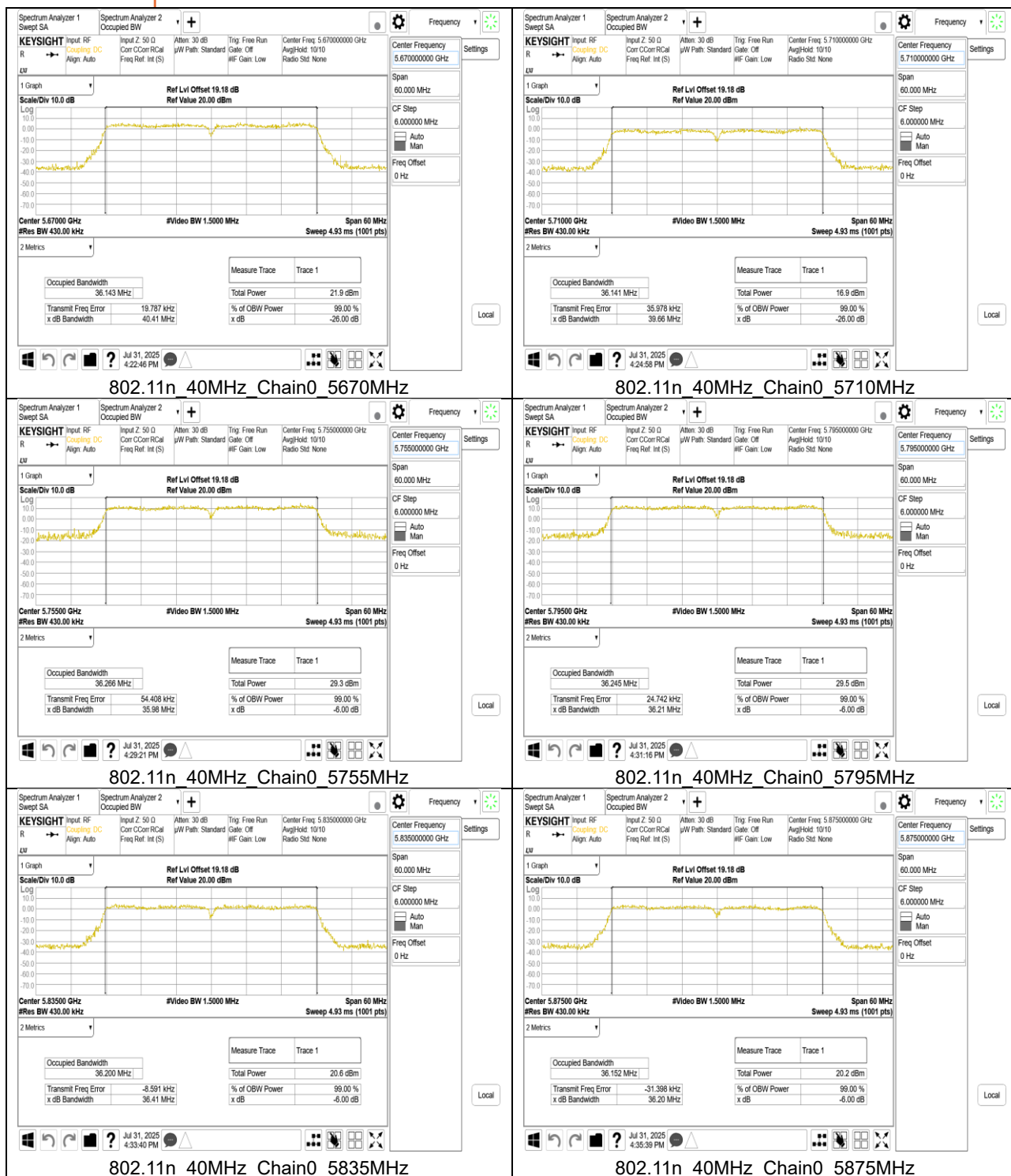
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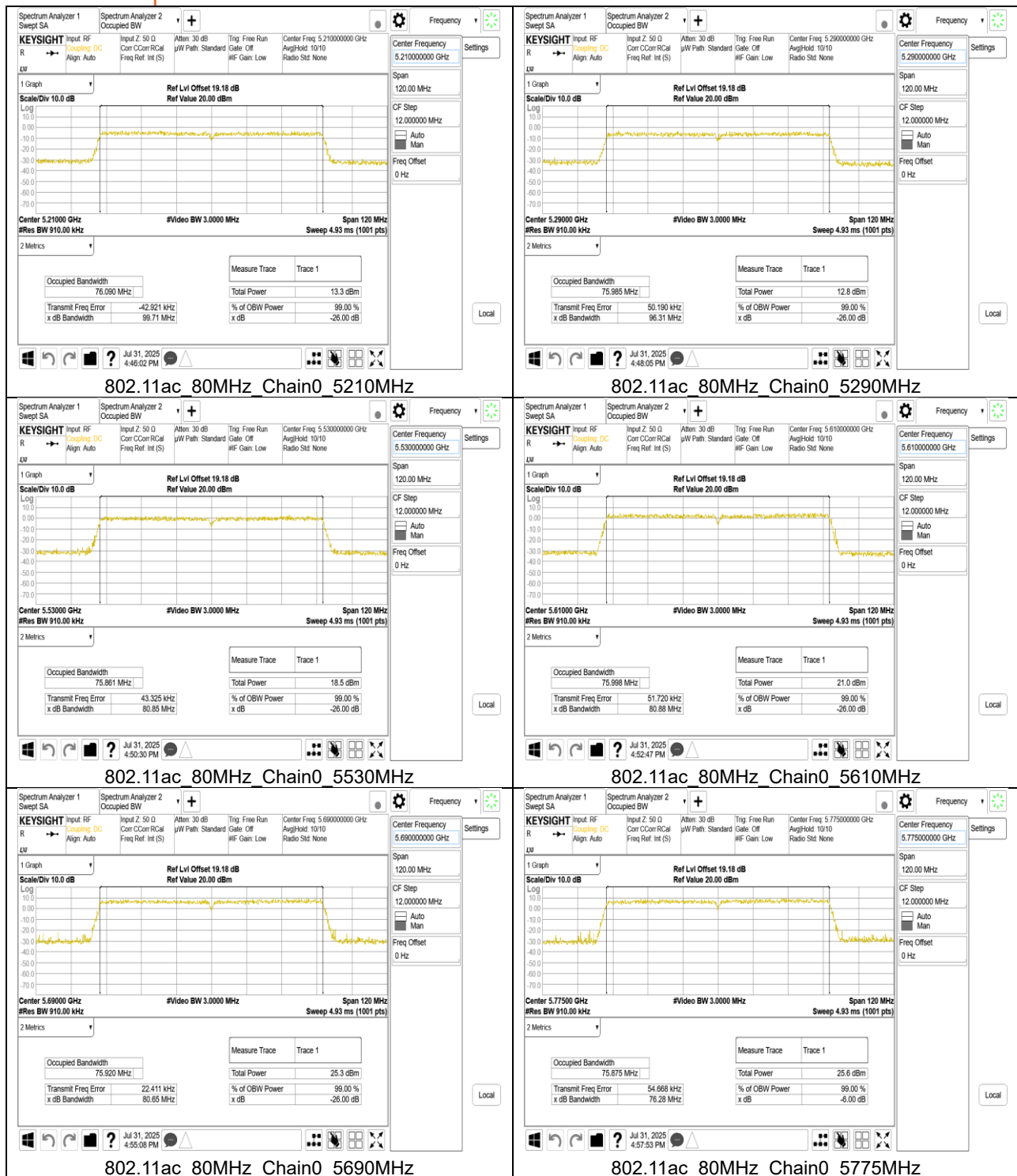
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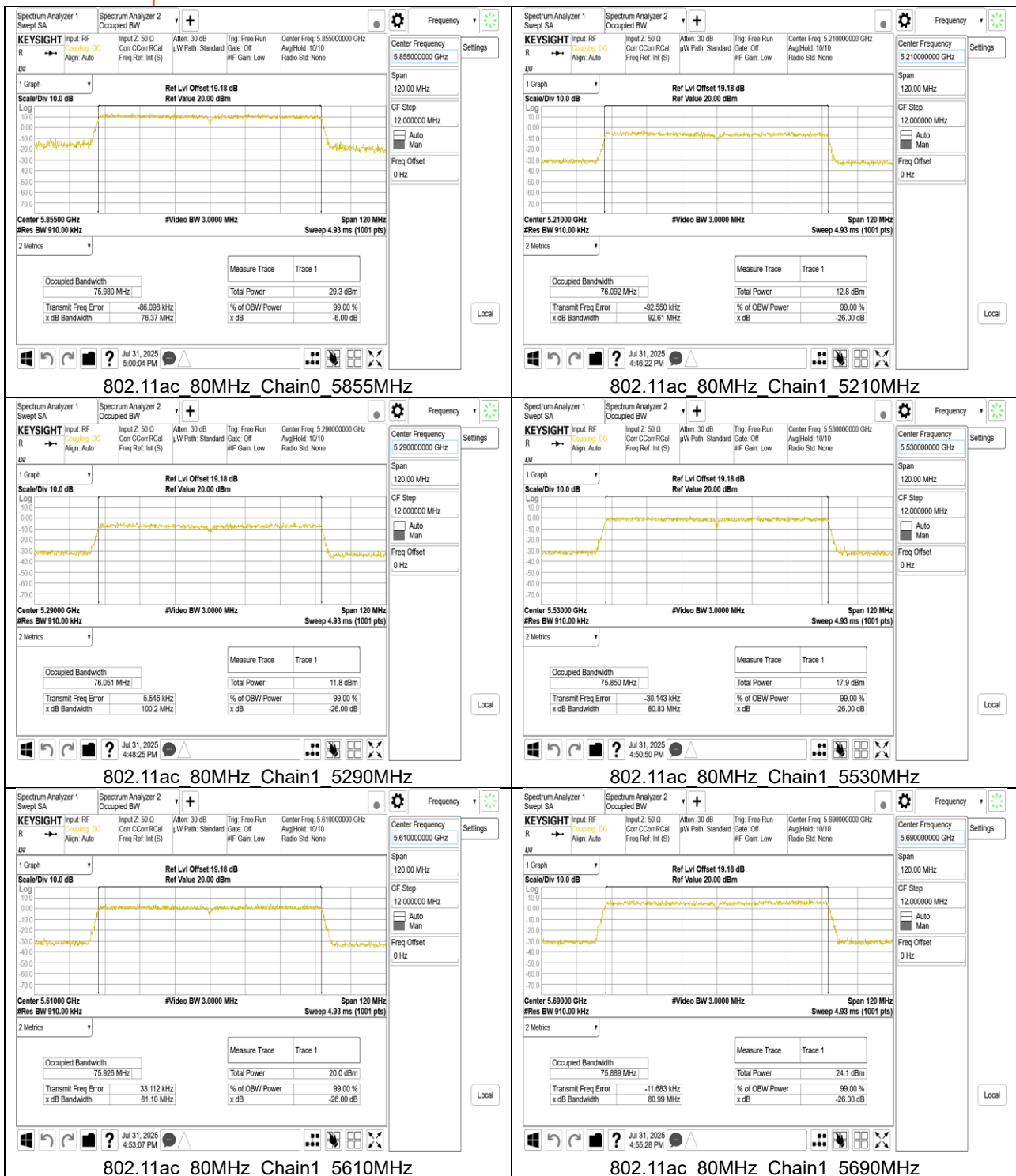
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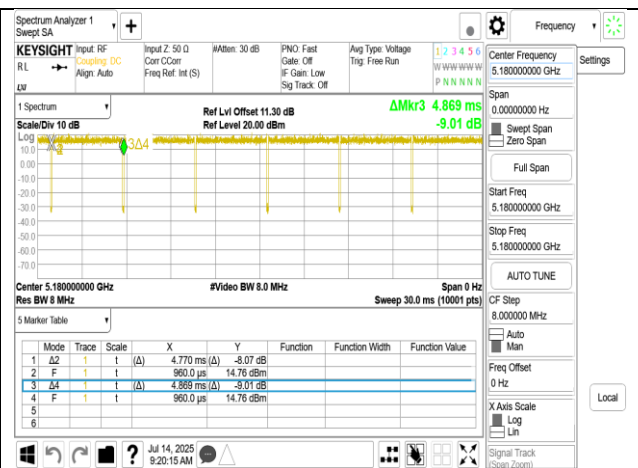
7.2 Maximum Conducted Output Power

7.2.1 Duty Cycle

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	96.82	0.14	0.32	1.00
802.11n_20	97.97	0.09	0.21	1.00
802.11n_40	95.78	0.19	0.43	1.00
802.11ac_80	91.49	0.39	0.91	1.00



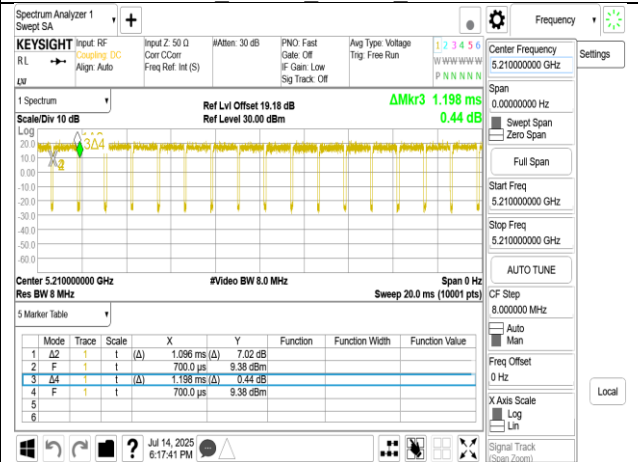
802.11a 20MHz Chain0 5180MHz



802.11n 20MHz Chain0 5180MHz



802.11n 40MHz Chain0 5190MHz



802.11ac 80MHz Chain0 5210MHz

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7.2.2 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	20	81.477	19.11	22.3	PASS
44	5220	6	20.5	77.274	18.88	22.3	PASS
48	5240	6	21	97.732	19.90	22.3	PASS
52	5260	6	20.5	78.711	18.96	21.86	PASS
60	5300	6	20.5	80.359	19.05	21.86	PASS
64	5320	6	20.5	82.420	19.16	21.86	PASS
100	5500	6	20	56.239	17.50	21.86	PASS
116	5580	6	20.5	70.475	18.48	21.86	PASS
140	5700	6	11.5	10.281	10.12	21.86	PASS
144	5720	6	20.5	136.155	21.34	21.86	PASS
149	5745	6	28	422.703	26.26	29.09	PASS
157	5785	6	28	412.131	26.15	29.09	PASS
165	5825	6	28	384.623	25.85	29.09	PASS
169	5845	6	18.5	55.595	17.45	29.09	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845	6	18.5	272.920	24.36	30	PASS
173	5865	6	18	253.533	24.04	30	PASS
177	5885	6	18	233.903	23.69	30	PASS

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f (886-2) 2298-0488

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802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	20	78.892	18.97	22.3	PASS
44	5220	6	20.5	75.168	18.76	22.3	PASS
48	5240	6	21	94.631	19.76	22.3	PASS
52	5260	6	20.5	76.742	18.85	21.86	PASS
60	5300	6	20.5	76.742	18.85	21.86	PASS
64	5320	6	20.5	80.174	19.04	21.86	PASS
100	5500	6	20	54.832	17.39	21.86	PASS
116	5580	6	20.5	68.239	18.34	21.86	PASS
140	5700	6	11.5	9.932	9.97	21.86	PASS
144	5720	6	11.5	131.231	21.18	21.86	PASS
149	5745	6	28	408.352	26.11	29.09	PASS
157	5785	6	28	400.899	26.03	29.09	PASS
165	5825	6	28	375.003	25.74	29.09	PASS
169	5845	6	28	53.338	17.27	29.09	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845	6	28	261.839	24.18	30	PASS
173	5865	6	18	245.491	23.90	30	PASS
177	5885	6	18	227.005	23.56	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	14.5	13.20	12.32	37.946	15.79	22.3	PASS
44	5220	MCS0	15	14.10	13.12	46.206	16.65	22.3	PASS
48	5240	MCS0	16.5	15.21	13.70	56.620	17.53	22.3	PASS
52	5260	MCS0	16	15.87	14.35	65.850	18.19	21.86	PASS
60	5300	MCS0	15	16.16	14.48	69.344	18.41	21.86	PASS
64	5320	MCS0	17	16.10	14.42	68.393	18.35	21.86	PASS
100	5500	MCS0	18.5	15.84	14.74	68.141	18.33	21.86	PASS
116	5580	MCS0	17	15.36	14.07	59.870	17.77	21.86	PASS
140	5700	MCS0	11.5	10.21	9.10	18.620	12.70	21.86	PASS
144	5720	MCS0	20	19.36	17.81	146.661	21.66	21.86	PASS
149	5745	MCS0	28	25.76	23.96	625.455	27.96	29.09	PASS
157	5785	MCS0	28	25.59	24.24	627.569	27.98	29.09	PASS
165	5825	MCS0	28	25.51	24.34	627.141	27.97	29.09	PASS
169	5845	MCS0	13	12.51	11.21	31.030	14.92	26.08	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
169	5845	MCS0	13	12.51	11.21	152.329	21.83	30	PASS
173	5865	MCS0	14	13.43	12.28	191.088	22.81	30	PASS
177	5885	MCS0	13	11.76	10.95	134.686	21.29	30	PASS

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f (886-2) 2298-0488

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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	14.5	13.12	12.19	37.100	15.69	22.3	PASS
46	5230	MCS0	19.5	18.27	16.61	113.051	20.53	22.3	PASS
54	5270	MCS0	20	18.92	17.26	131.303	21.18	21.86	PASS
62	5310	MCS0	11.5	10.20	8.75	17.985	12.55	21.86	PASS
102	5510	MCS0	13	10.92	10.13	22.682	13.56	21.86	PASS
110	5550	MCS0	20.5	18.42	17.07	120.536	20.81	21.86	PASS
134	5670	MCS0	18	18.06	15.75	101.642	20.07	21.86	PASS
142	5710	MCS0	17.5	16.77	14.99	79.149	18.98	21.86	PASS
151	5755	MCS0	25	24.31	21.94	426.442	26.30	29.09	PASS
159	5795	MCS0	25	24.00	21.94	407.842	26.10	29.09	PASS
167	5835	MCS0	16	14.70	13.63	52.623	17.21	26.08	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
167	5835	MCS0	16	14.70	13.63	258.332	24.12	30	PASS
175	5875	MCS0	16	14.98	13.84	273.603	24.37	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	8	7.62	6.71	10.460	10.20	22.3	PASS
58	5290	MCS0	8	7.79	6.56	10.532	10.22	21.86	PASS
106	5530	MCS0	14	12.61	11.62	32.732	15.15	21.86	PASS
122	5610	MCS0	16.5	15.32	13.85	58.257	17.65	21.86	PASS
138	5690	MCS0	20	19.71	17.72	152.565	21.83	21.86	PASS
155	5775	MCS0	20	19.97	17.81	159.569	22.03	29.09	PASS
171	5855 (U-NII 3)	MCS0	20.5	16.96	16.06	90.049	19.54	26.08	PASS
CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		EIRP (mW)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
				CH 0	CH 1				
171	5855 (U-NII 4)	MCS0	20.5	17.25	16.77	494.009	26.94	30	PASS

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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7.3 Maximum Power Spectral Density

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	9.139	-	0.14	9.28		9.32 dBm/MHz	-0.04
5220	8.435	-	0.14	8.58		9.32 dBm/MHz	-0.74
5240	9.156	-	0.14	9.30		9.32 dBm/MHz	-0.02
5260	8.076	-	0.14	8.22		8.88 dBm/MHz	-0.66
5300	7.995	-	0.14	8.14		8.88 dBm/MHz	-0.74
5320	8.251	-	0.14	8.39		8.88 dBm/MHz	-0.49
5500	7.870	-	0.14	8.01		8.88 dBm/MHz	-0.87
5580	7.828	-	0.14	7.97		8.88 dBm/MHz	-0.91
5700	-0.777	-	0.14	0.14		8.88 dBm/MHz	-8.74
5720 (U-NII 2C)	8.366	-	0.14	8.51		8.88 dBm/MHz	-0.37
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 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)	3.572	-	0.14	2.22	5.93	29.09 dBm/500kHz	-23.16
5745	10.405	-	0.14	2.22	12.77	29.09 dBm/500kHz	-16.33
5785	10.203	-	0.14	2.22	12.56	29.09 dBm/500kHz	-16.53
5825	10.922	-	0.14	2.22	13.28	29.09 dBm/500kHz	-15.81
5845 (U-NII 3)	1.233	-	0.14	2.22	3.59	29.09 dBm/500kHz	-25.50
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)	6.265	-	0.14	6.41	13.32	14.00 dBm/MHz	-0.68
5865	6.151	-	0.14	6.29	13.20	14.00 dBm/MHz	-0.80
5885	6.772	-	0.14	6.91	13.82	14.00 dBm/MHz	-0.18

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POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	2.653	1.998	0.09	5.44		6.31 dBm/MHz	-0.87
5220	2.806	2.032	0.09	5.54		6.31 dBm/MHz	-0.77
5240	3.550	2.716	0.09	6.25		6.31 dBm/MHz	-0.06
5260	2.613	1.875	0.09	5.36		5.87 dBm/MHz	-0.51
5300	2.808	1.919	0.09	5.49		5.87 dBm/MHz	-0.38
5320	3.125	1.652	0.09	5.55		5.87 dBm/MHz	-0.32
5500	2.932	1.968	0.09	5.58		5.87 dBm/MHz	-0.29
5580	3.049	2.199	0.09	5.75		5.87 dBm/MHz	-0.12
5700	-1.984	-3.039	0.09	0.62		5.87 dBm/MHz	-5.25
5720 (U-NII 2C)	3.098	1.981	0.09	5.68		5.87 dBm/MHz	-0.19
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 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)	-1.733	-3.058	0.09	2.22	2.98	26.08 dBm/500kHz	-23.10
5745	9.064	7.563	0.09	2.22	13.70	26.08 dBm/500kHz	-12.38
5785	8.754	7.511	0.09	2.22	13.50	26.08 dBm/500kHz	-12.58
5825	8.486	7.485	0.09	2.22	13.33	26.08 dBm/500kHz	-12.75
5845 (U-NII 3)	-4.414	-5.972	0.09	2.22	0.20	26.08 dBm/500kHz	-25.88
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)	0.266	-0.819	0.09	2.86	12.78	14.00 dBm/MHz	-1.22
5865	1.163	0.638	0.09	4.01	13.93	14.00 dBm/MHz	-0.07
5885	0.090	0.398	0.09	3.35	13.27	14.00 dBm/MHz	-0.73
POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-0.594	-0.834	0.19	2.49		6.31 dBm/MHz	-3.82
5230	2.550	1.835	0.19	5.41		6.31 dBm/MHz	-0.90
5270	3.109	1.547	0.19	5.60		5.87 dBm/MHz	-0.27
5310	-3.964	-4.786	0.19	-1.16		5.87 dBm/MHz	-7.03
5510	-2.727	-3.392	0.19	0.15		5.87 dBm/MHz	-5.72
5550	3.007	2.170	0.19	5.81		5.87 dBm/MHz	-0.06
5670	2.607	2.006	0.19	5.52		5.87 dBm/MHz	-0.35
5710 (U-NII 2C)	2.292	0.815	0.19	4.82		5.87 dBm/MHz	-1.05
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-2.412	-3.951	0.19	2.22	2.31	26.08 dBm/500kHz	-23.77
5755	4.529	2.726	0.19	2.22	9.14	26.08 dBm/500kHz	-16.94
5795	4.861	3.142	0.19	2.22	9.51	26.08 dBm/500kHz	-16.57
5835 (U-NII 3)	-5.068	-4.956	0.19	2.22	0.41	26.08 dBm/500kHz	-25.67
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)
5835 (U-NII4)	-0.184	0.194	0.19	3.21	13.13	14.00 dBm/MHz	-0.87
5875	0.688	0.598	0.19	3.84	13.76	14.00 dBm/MHz	-0.24

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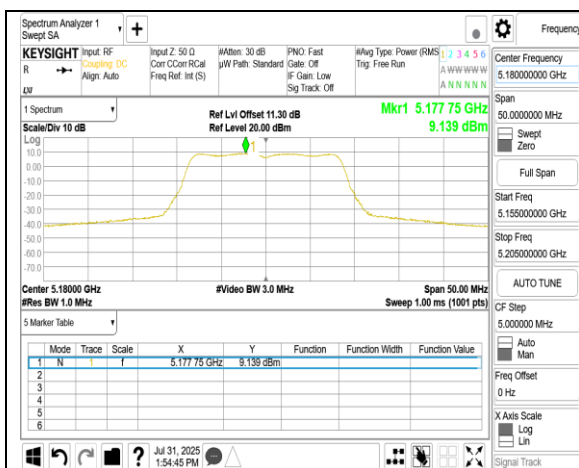
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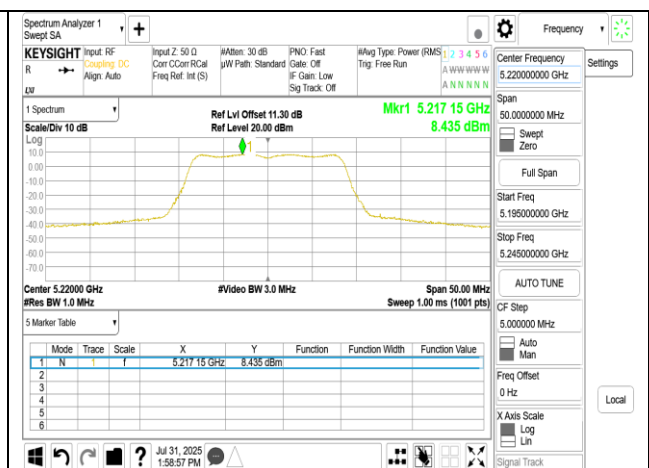
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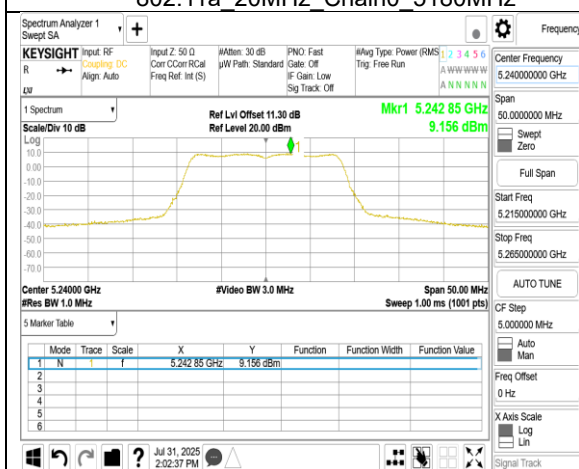
POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-11.839	-12.073	0.39	-8.55		6.31 dBm/MHz	-14.86
5290	-10.269	-11.438	0.39	-7.41		5.87 dBm/MHz	-13.28
5530	-5.178	-5.602	0.39	-1.98		5.87 dBm/MHz	-7.85
5610	-2.576	-3.678	0.39	0.31		5.87 dBm/MHz	-5.56
5690 (U-NII 2C)	1.874	0.032	0.39	4.45		5.87 dBm/MHz	-1.42
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-3.887	-5.339	0.39	2.22	1.07	26.08 dBm/500kHz	-25.01
5775	-3.507	-4.578	0.39	2.22	1.61	26.08 dBm/500kHz	-24.47
5855 (U-NII 3)	-4.852	-5.350	0.39	2.22	0.53	26.08 dBm/500kHz	-25.55
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)
5855 (U-NII4)	0.754	0.532	0.39	4.04	13.96	14.00 dBm/MHz	-0.04



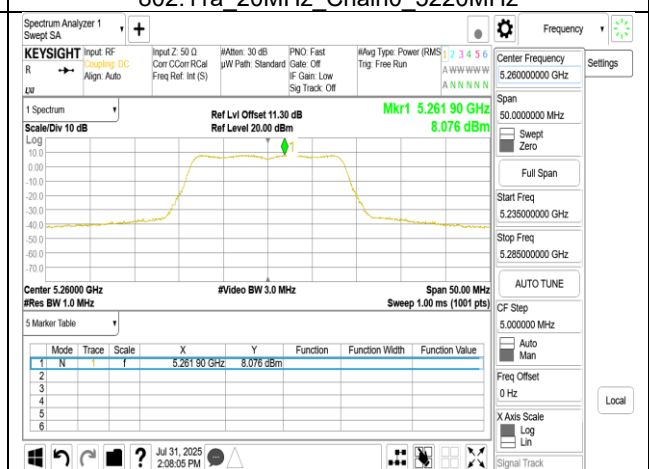
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802.11a 20MHz Chain0 5220MHz



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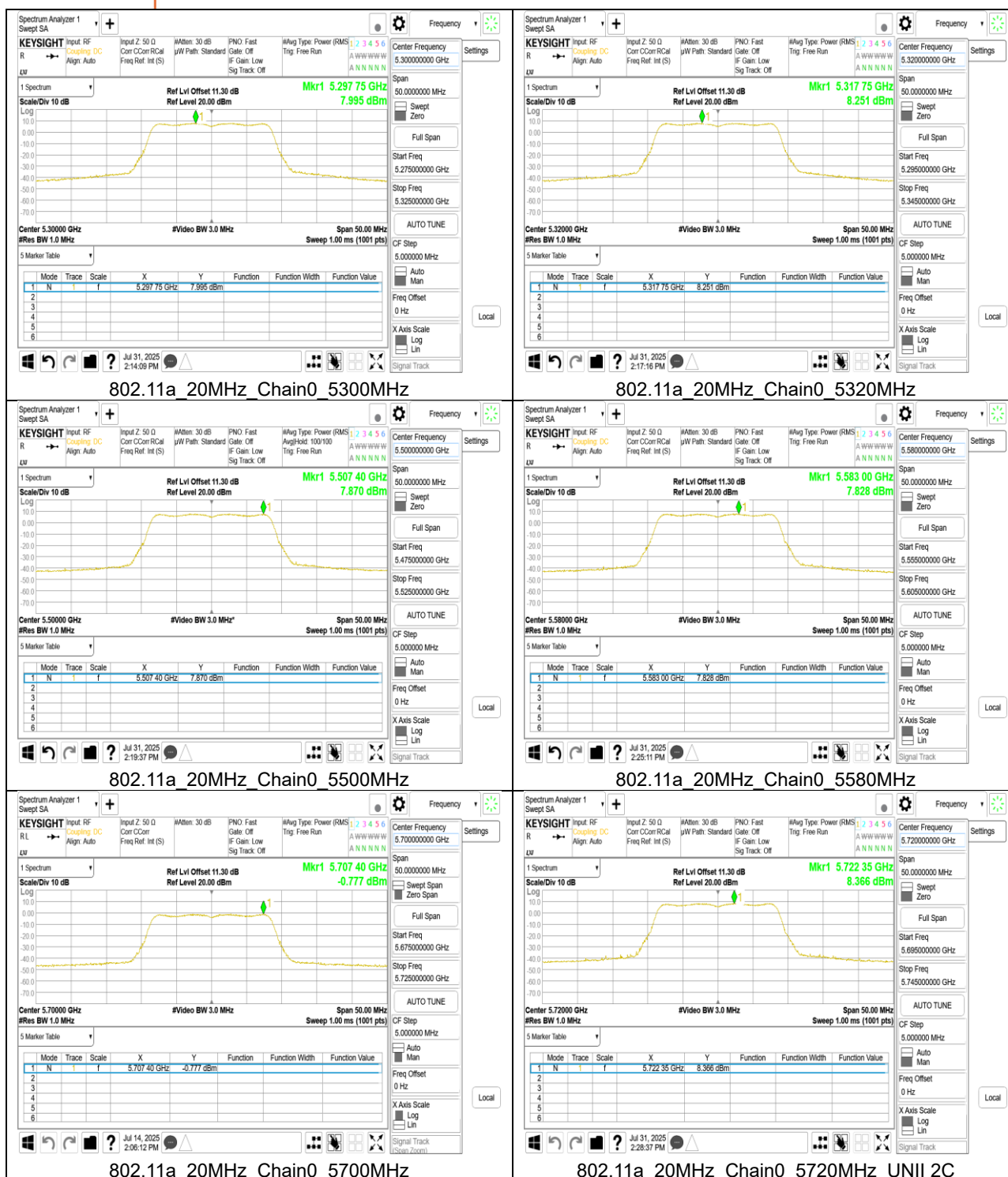


802.11a 20MHz Chain0 5260MHz

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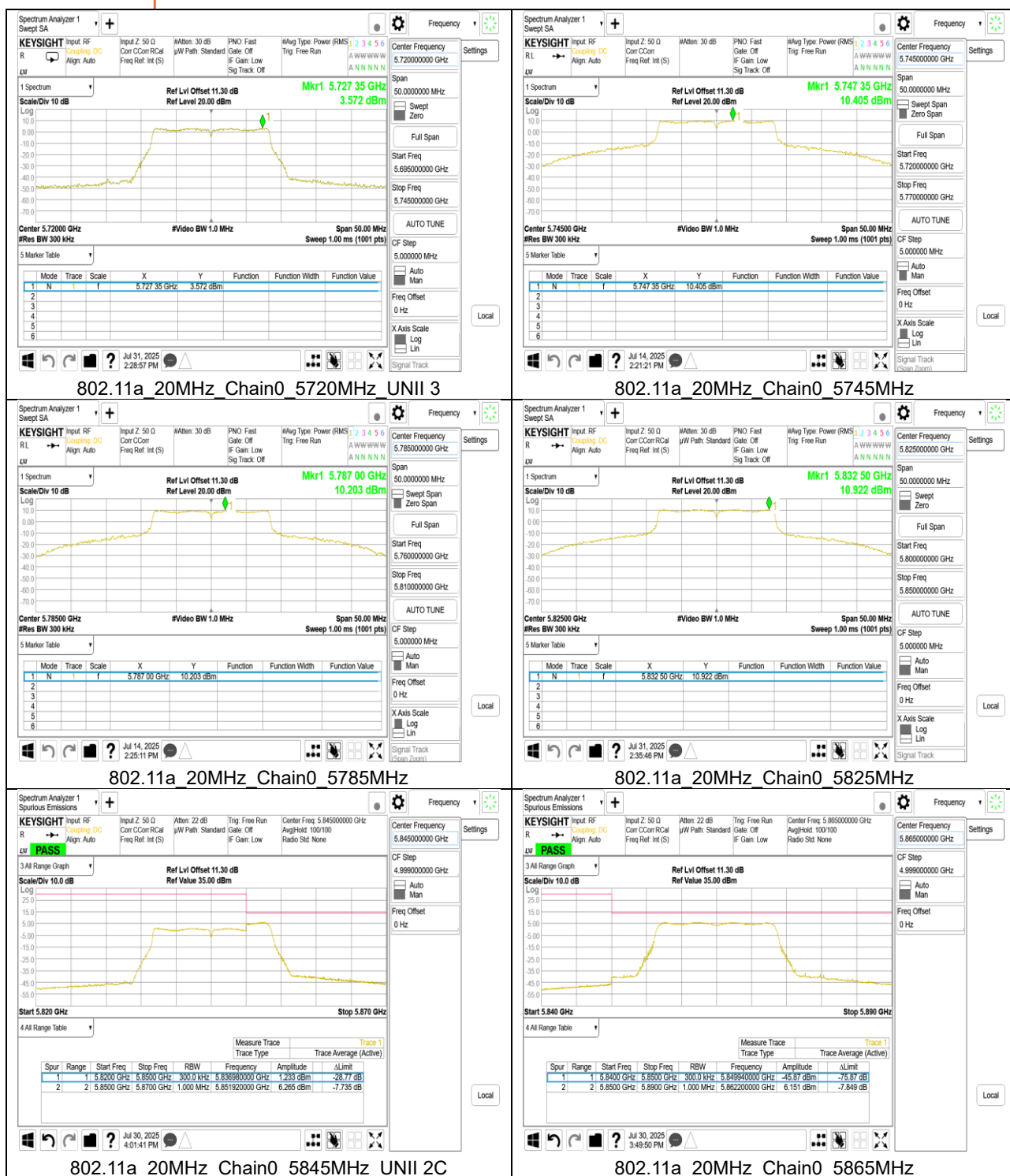
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