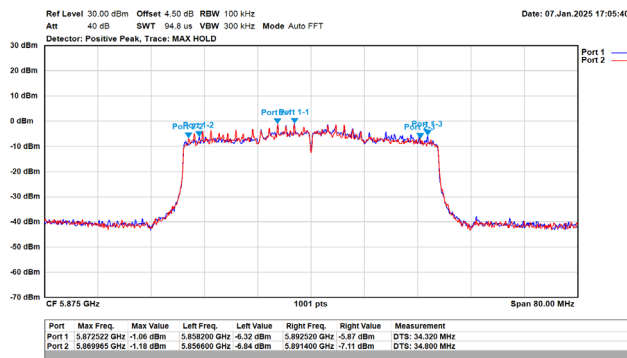
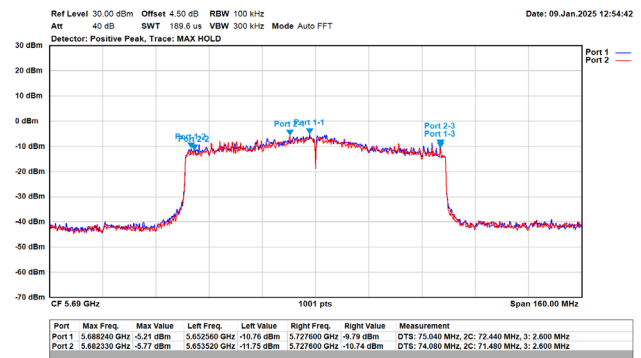


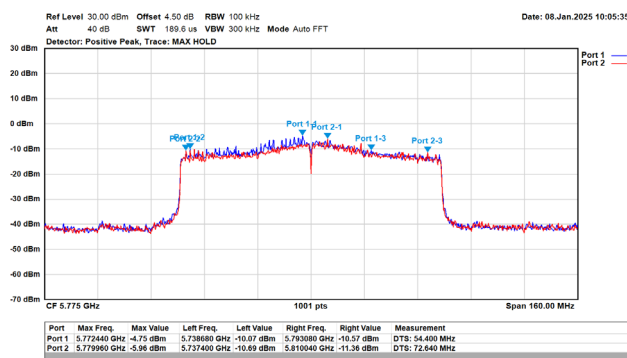
802.11ax/40MHz/MCS0/5875MHz/Ch175



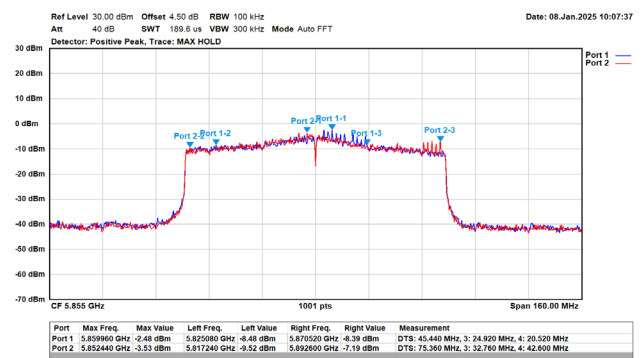
802.11ax/80MHz/MCS0/5690MHz/Ch138



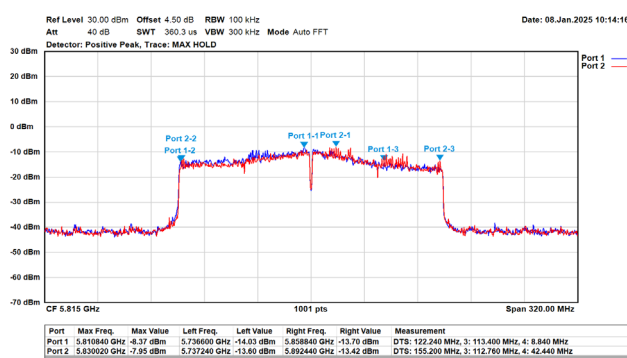
802.11ax/80MHz/MCS0/5775MHz/Ch155



802.11ax/80MHz/MCS0/5855MHz/Ch171



802.11ax/160MHz/MCS0/5815MHz/Ch163



Appendix C. Test Result of Maximum Conducted Output Power

<WiFi 5GHz U-NII 1>

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11a	5180	12.470	12.280	15.386	24.000	3.420	18.806	30.000
	5220	12.420	12.350	15.395	24.000	3.420	18.815	30.000
	5240	11.940	12.380	15.176	24.000	3.420	18.596	30.000
802.11ax (20 MHz)	5180	12.460	12.080	15.284	24.000	3.420	18.704	30.000
	5220	12.380	12.210	15.306	24.000	3.420	18.726	30.000
	5240	12.240	12.050	15.156	24.000	3.420	18.576	30.000
802.11ax (40 MHz)	5190	12.470	11.940	15.223	24.000	3.420	18.643	30.000
	5230	12.440	11.910	15.193	24.000	3.420	18.613	30.000
802.11ax (80 MHz)	5210	12.240	11.880	15.074	24.000	3.420	18.494	30.000
802.11ax (160 MHz)	5250 (U-NII-1)	8.870	8.860	11.875	24.000	3.420	15.295	30.000

Limit = 250mW(24dBm) or 11dBm+10*log(B) , where B is the 26dB emission bandwidth in MHz.

<WiFi 5GHz U-NII 2A>

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11a	5260	12.150	12.410	15.292	23.610	2.990	18.282	29.610
	5300	12.130	12.380	15.267	23.648	2.990	18.257	29.648
	5320	12.060	12.420	15.254	23.658	2.990	18.244	29.658
802.11ax (20 MHz)	5260	12.470	12.080	15.290	24.000	2.990	18.280	30.000
	5300	12.450	11.960	15.222	24.000	2.990	18.212	30.000
	5320	12.400	12.030	15.229	24.000	2.990	18.219	30.000
802.11ax (40 MHz)	5270	12.310	12.060	15.197	24.000	2.990	18.187	30.000
	5310	12.270	12.010	15.152	24.000	2.990	18.142	30.000
802.11ax (80 MHz)	5290	12.220	11.960	15.102	24.000	2.990	18.092	30.000
802.11ax (160 MHz)	5250 (U-NII-2A)	9.430	9.380	12.415	24.000	2.990	15.405	30.000

Limit = 250mW(24dBm) or 11dBm+10*log(B) , where B is the 26dB emission bandwidth in MHz.

<WiFi 5GHz U-NII 2C>

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11a	5500	11.670	11.830	14.761	23.639	2.690	17.451	29.639
	5580	11.840	11.520	14.693	23.658	2.690	17.383	29.658
	5700	11.850	11.540	14.708	23.658	2.690	17.398	29.658
	5720 (U-NII-2C)	10.800	10.120	14.049	22.535	2.690	16.739	28.535
802.11ax (20 MHz)	5500	11.950	11.980	14.975	24.000	2.690	17.665	30.000
	5580	11.730	11.430	14.593	24.000	2.690	17.283	30.000
	5700	11.800	11.370	14.601	24.000	2.690	17.291	30.000
	5720 (U-NII-2C)	10.440	9.800	13.238	22.796	2.690	15.928	28.796
802.11ax (40 MHz)	5510	11.880	11.730	14.816	24.000	2.690	17.506	30.000
	5550	11.910	11.870	14.900	24.000	2.690	17.590	30.000
	5670	11.950	11.820	14.896	24.000	2.690	17.586	30.000
	5710 (U-NII-2C)	10.480	9.880	13.312	24.000	2.690	16.002	30.000
802.11ax (80 MHz)	5530	11.950	11.920	14.945	24.000	2.690	17.635	30.000
	5610	11.860	11.730	14.806	24.000	2.690	17.496	30.000
	5690 (U-NII-2C)	10.990	10.210	13.628	24.000	2.690	16.318	30.000
802.11ax (160 MHz)	5570	11.980	11.720	14.862	24.000	2.690	17.552	30.000

Limit = 250mW(24dBm) or $11\text{dBm} + 10 \cdot \log(B)$, where B is the 26dB emission bandwidth in MHz.

<WiFi 5GHz U-NII 3>

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total	Limit			
802.11a	5720 (U-NII-3)	3.140	2.270	6.303	30.000	3.380	9.683	36.000
	5745	10.710	10.390	13.563	30.000	3.380	16.943	36.000
	5785	10.720	10.430	13.588	30.000	3.380	16.968	36.000
	5825	10.840	10.650	13.756	30.000	3.380	17.136	36.000
	5845 (U-NII-3)	10.020	10.320	13.748	30.000	3.380	17.128	36.000
802.11ax (20 MHz)	5720 (U-NII-3)	3.280	3.050	6.273	30.000	3.380	9.653	36.000
	5745	10.840	10.520	13.693	30.000	3.380	17.073	36.000
	5785	10.910	10.570	13.754	30.000	3.380	17.134	36.000
	5825	10.840	10.440	13.655	30.000	3.380	17.035	36.000
	5845 (U-NII-3)	10.670	10.730	13.807	30.000	3.380	17.187	36.000
802.11ax (40 MHz)	5710 (U-NII-3)	-1.140	-1.550	1.782	30.000	3.380	5.162	36.000
	5755	10.760	10.210	13.504	30.000	3.380	16.884	36.000
	5795	10.770	10.240	13.523	30.000	3.380	16.903	36.000
	5835 (U-NII-3)	10.550	9.920	13.368	30.000	3.380	16.748	36.000
802.11ax (80 MHz)	5690 (U-NII-3)	-5.090	-5.480	-2.270	30.000	3.380	1.110	36.000
	5775	10.970	10.270	13.644	30.000	3.380	17.024	36.000
	5855 (U-NII-3)	6.840	6.410	9.641	30.000	3.380	13.021	36.000
802.11ax (160 MHz)	5815 (U-NII-3)	10.690	10.200	13.462	30.000	3.380	16.842	36.000

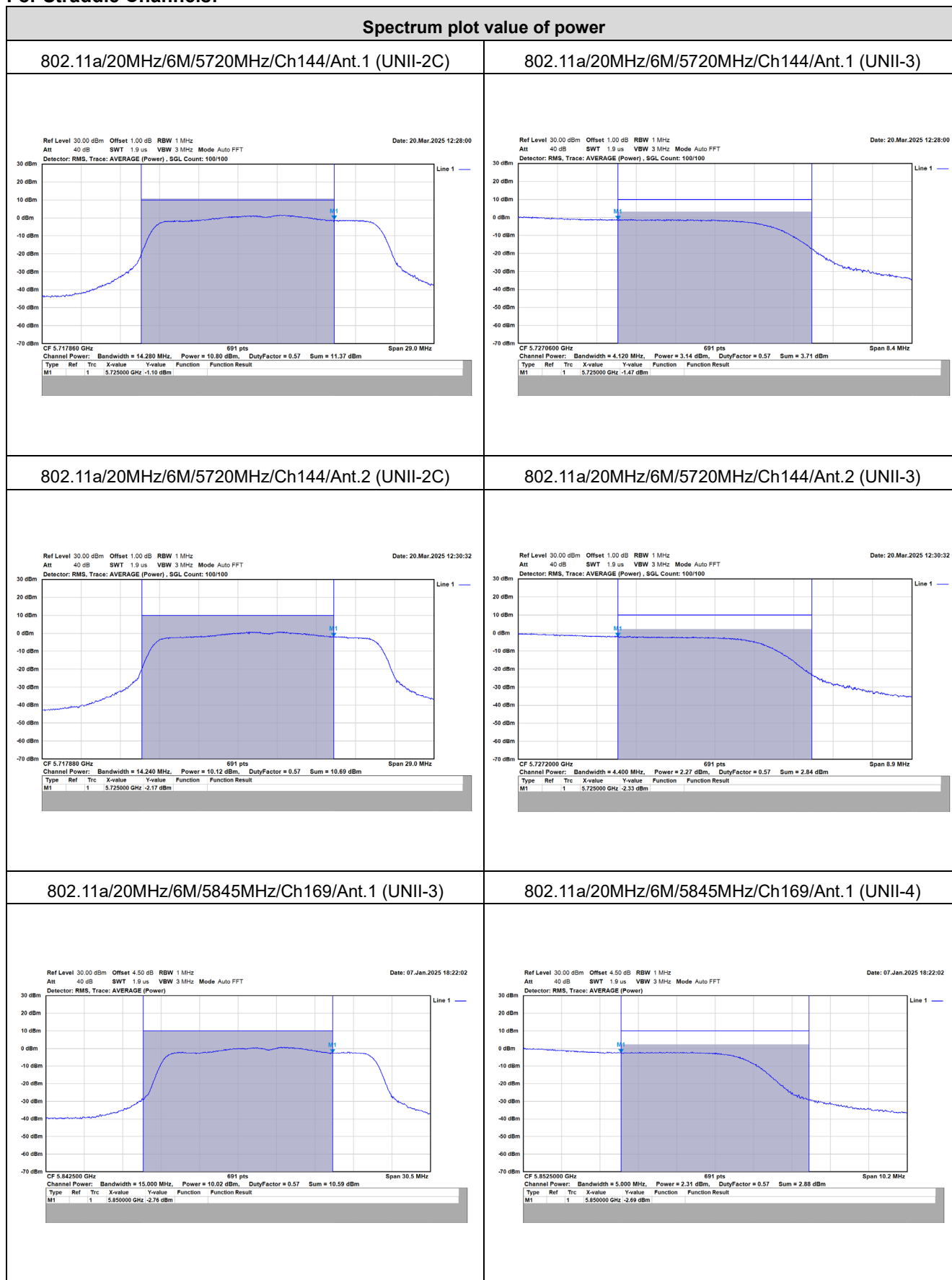
Limit = 250mW(24dBm) or 11dBm+10*log(B) , where B is the 26dB emission bandwidth in MHz.

<WiFi 5GHz U-NII 4>

Modulation	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 1	Ant. 2	Total			
802.11a	5845 (U-NII-4)	2.310	2.480	5.972	3.380	9.352	30.000
	5865	10.930	10.870	13.910	3.380	17.290	30.000
	5885	10.980	10.950	13.975	3.380	17.355	30.000
802.11ax (20 MHz)	5845 (U-NII-4)	3.600	3.940	6.880	3.380	10.260	30.000
	5865	10.900	10.930	13.925	3.380	17.305	30.000
	5885	10.770	10.830	13.810	3.380	17.190	30.000
802.11ax (40 MHz)	5835 (U-NII-4)	-1.180	-1.380	1.843	3.380	5.223	30.000
	5875	10.960	10.920	13.950	3.380	17.330	30.000
802.11ax (80 MHz)	5855 (U-NII-4)	8.220	8.100	11.171	3.380	14.551	30.000
802.11ax (160 MHz)	5815 (U-NII-4)	3.040	3.140	6.101	3.380	9.481	30.000

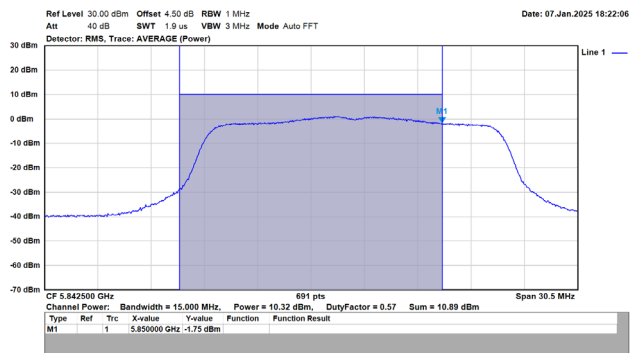
Limit = 250mW(24dBm) or $11\text{dBm} + 10 \cdot \log(B)$, where B is the 26dB emission bandwidth in MHz.

For Straddle Channels:

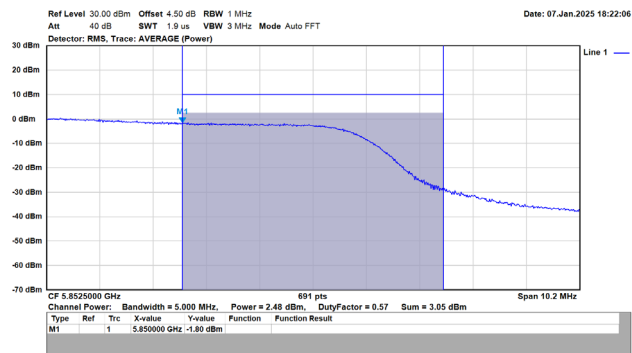


Spectrum plot value of power

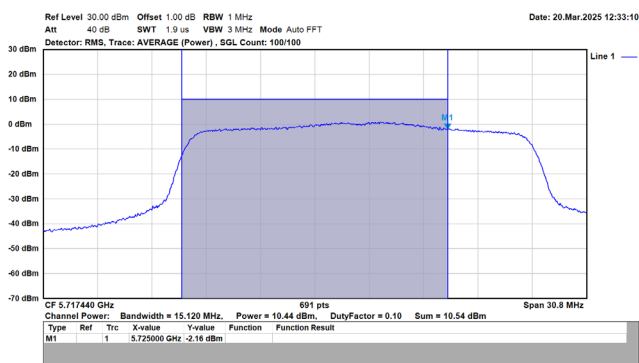
802.11a/20MHz/6M/5845MHz/Ch169/Ant.2 (UNII-3)



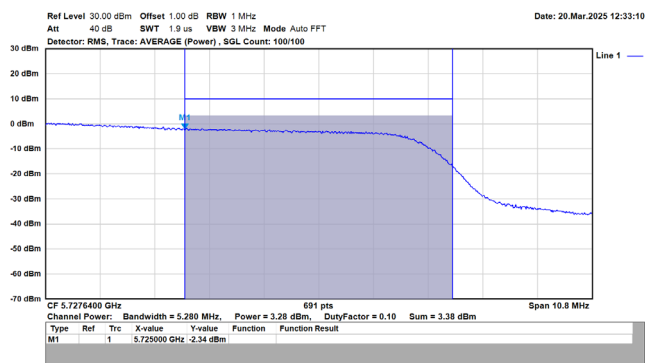
802.11a/20MHz/6M/5845MHz/Ch169/Ant.2 (UNII-4)



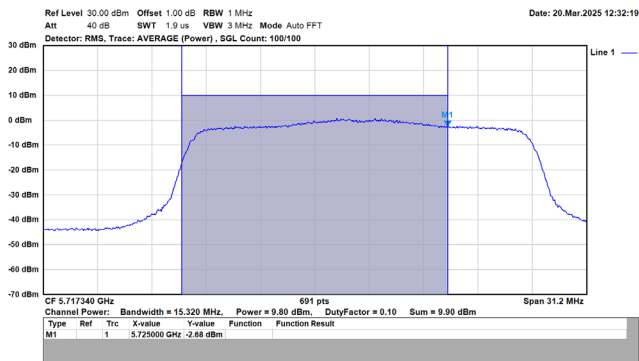
802.11ax/20MHz/MCS0/5720MHz/Ch144/Ant.1 (UNII-2C)



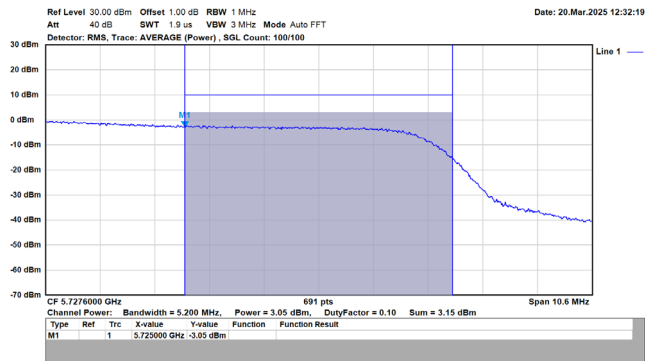
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802.11ax/20MHz/MCS0/5720MHz/Ch144/Ant.2 (UNII-2C)

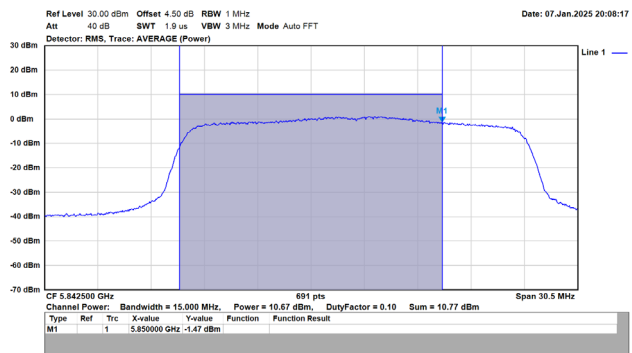


802.11ax/20MHz/MCS0/5720MHz/Ch144/Ant.2 (UNII-3)

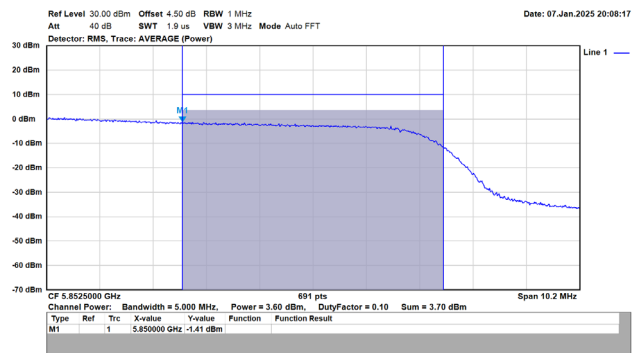


Spectrum plot value of power

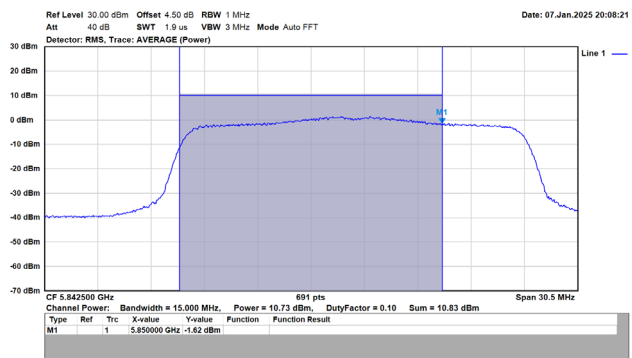
802.11ax/20MHz/MCS0/5845MHz/Ch169/Ant.1 (UNII-3)



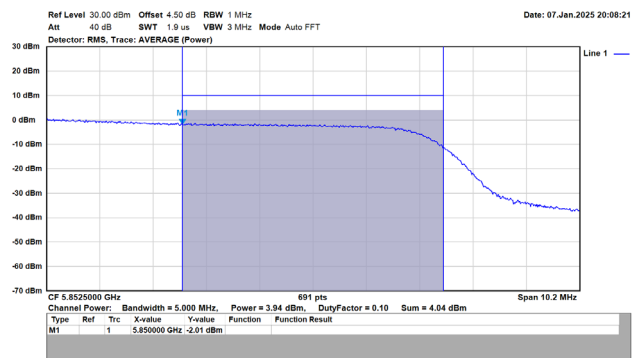
802.11ax/20MHz/MCS0/5845MHz/Ch169/Ant.1 (UNII-4)



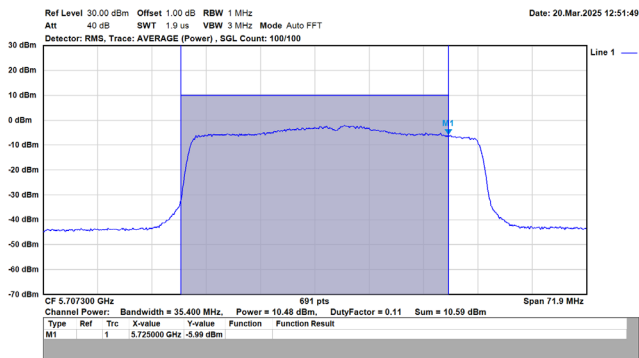
802.11ax/20MHz/MCS0/5845MHz/Ch169/Ant.2 (UNII-3)



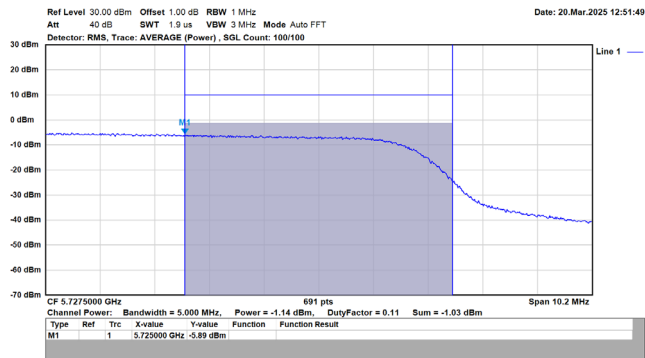
802.11ax/20MHz/MCS0/5845MHz/Ch169/Ant.2 (UNII-4)



802.11ax/40MHz/MCS0/5710MHz/Ch142/Ant.1 (UNII-2C)

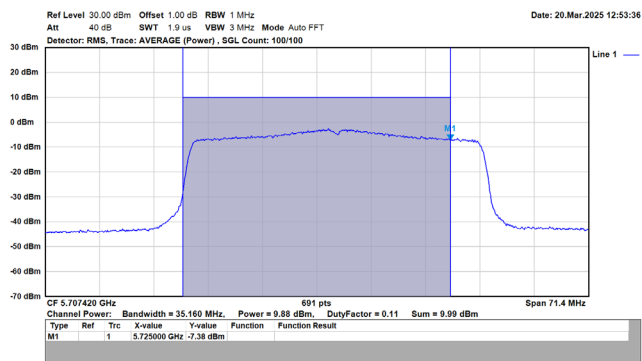


802.11ax/40MHz/MCS0/5710MHz/Ch142/Ant.1 (UNII-3)

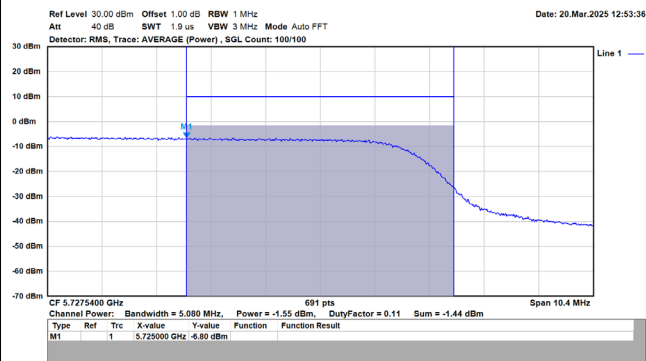


Spectrum plot value of power

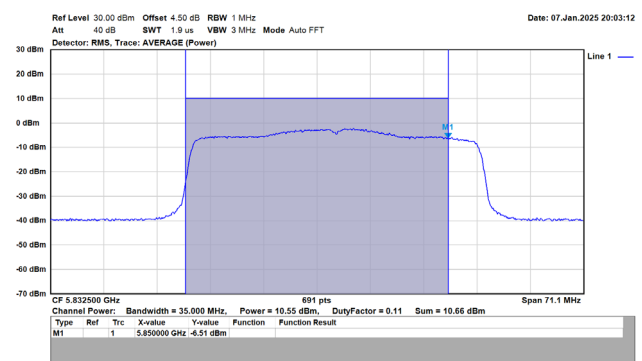
802.11ax/40MHz/MCS0/5710MHz/Ch142/Ant.2 (UNII-2C)



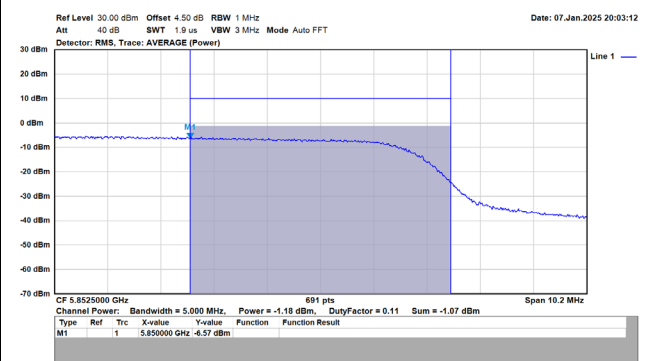
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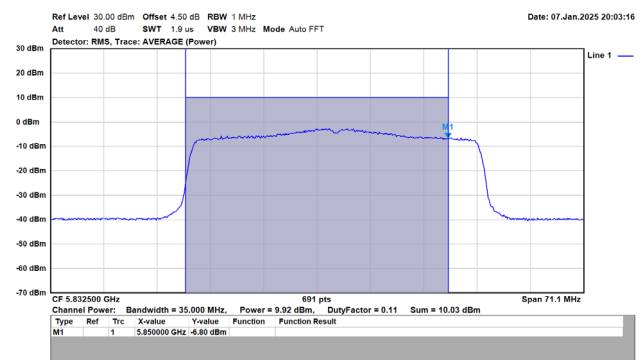
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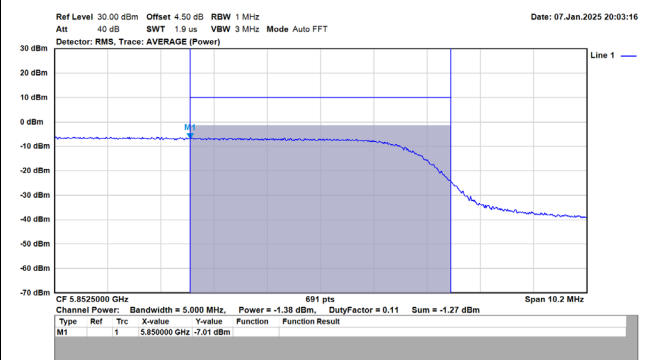
802.11ax/40MHz/MCS0/5835MHz/Ch167/Ant.1 (UNII-4)



802.11ax/40MHz/MCS0/5835MHz/Ch167/Ant.2 (UNII-3)

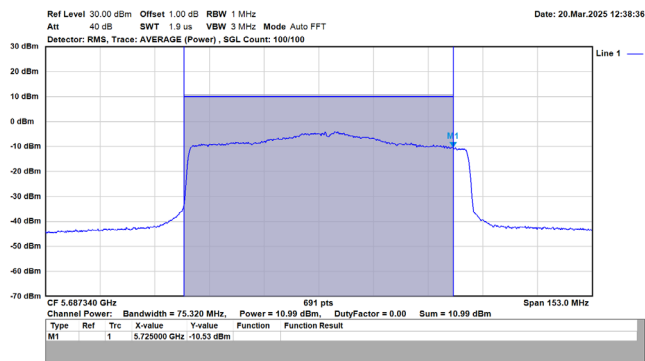


802.11ax/40MHz/MCS0/5835MHz/Ch167/Ant.2 (UNII-4)

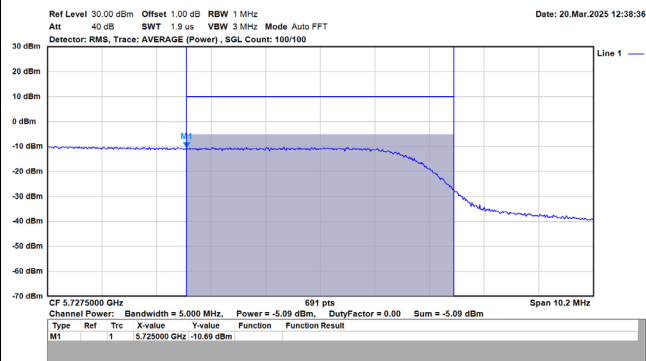


Spectrum plot value of power

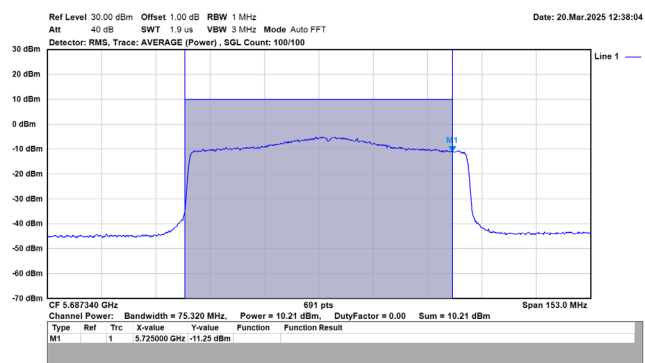
802.11ax/80MHz/MCS0/5690MHz/Ch138/Ant.1 (UNII-2C)



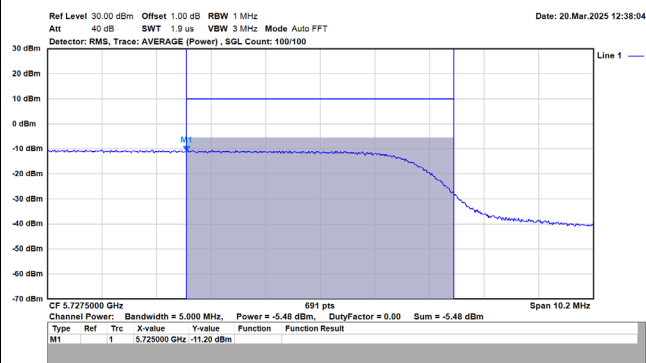
802.11ax/80MHz/MCS0/5690MHz/Ch138/Ant.1 (UNII-3)



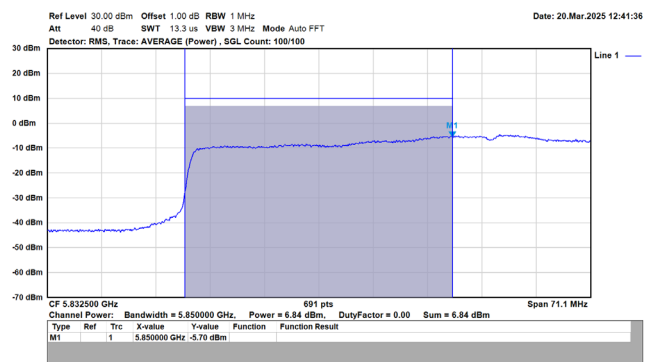
802.11ax/80MHz/MCS0/5690MHz/Ch138/Ant.2 (UNII-2C)



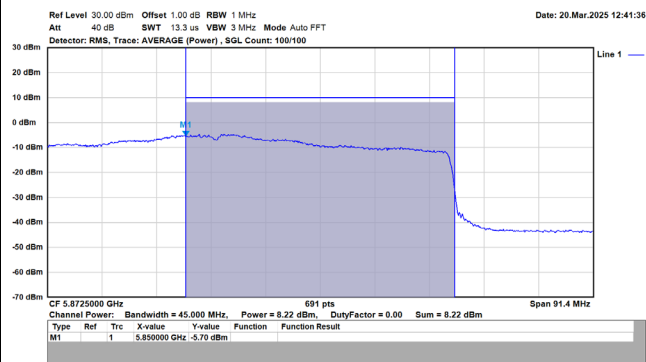
802.11ax/80MHz/MCS0/5690MHz/Ch138/Ant.2 (UNII-3)



802.11ax/80MHz/MCS0/5855MHz/Ch171/Ant.1 (UNII-3)

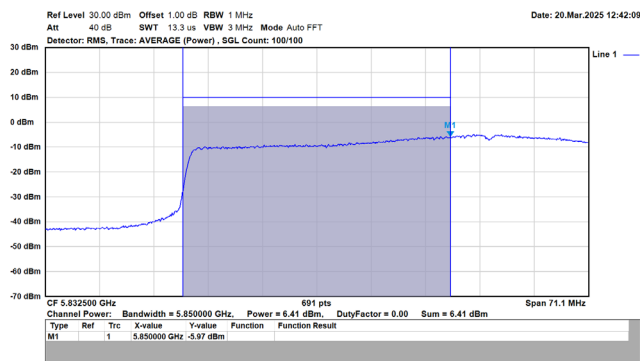


802.11ax/80MHz/MCS0/5855MHz/Ch171/Ant.1 (UNII-4)

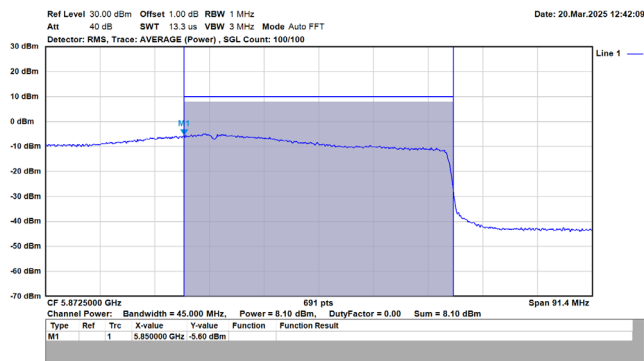


Spectrum plot value of power

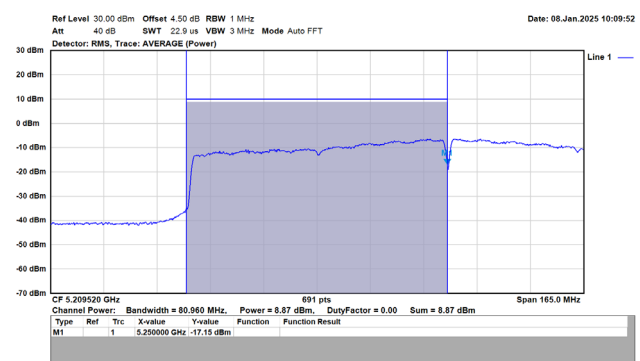
802.11ax/80MHz/MCS0/5855MHz/Ch171/Ant.2 (UNII-3)



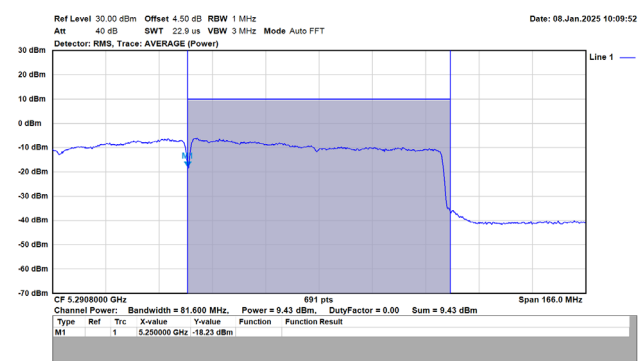
802.11ax/80MHz/MCS0/5855MHz/Ch171/Ant.2 (UNII-4)



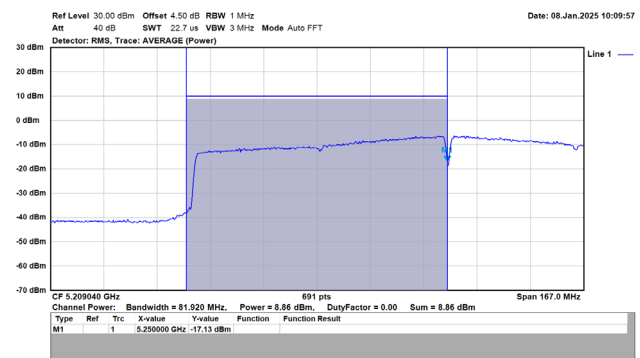
802.11ax/160MHz/MCS0/5250MHz/Ch50/Ant.1 (UNII-1)



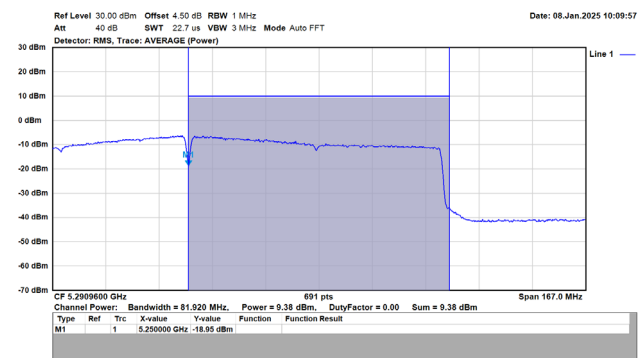
802.11ax/160MHz/MCS0/5250MHz/Ch50/Ant.1 (UNII-2A)

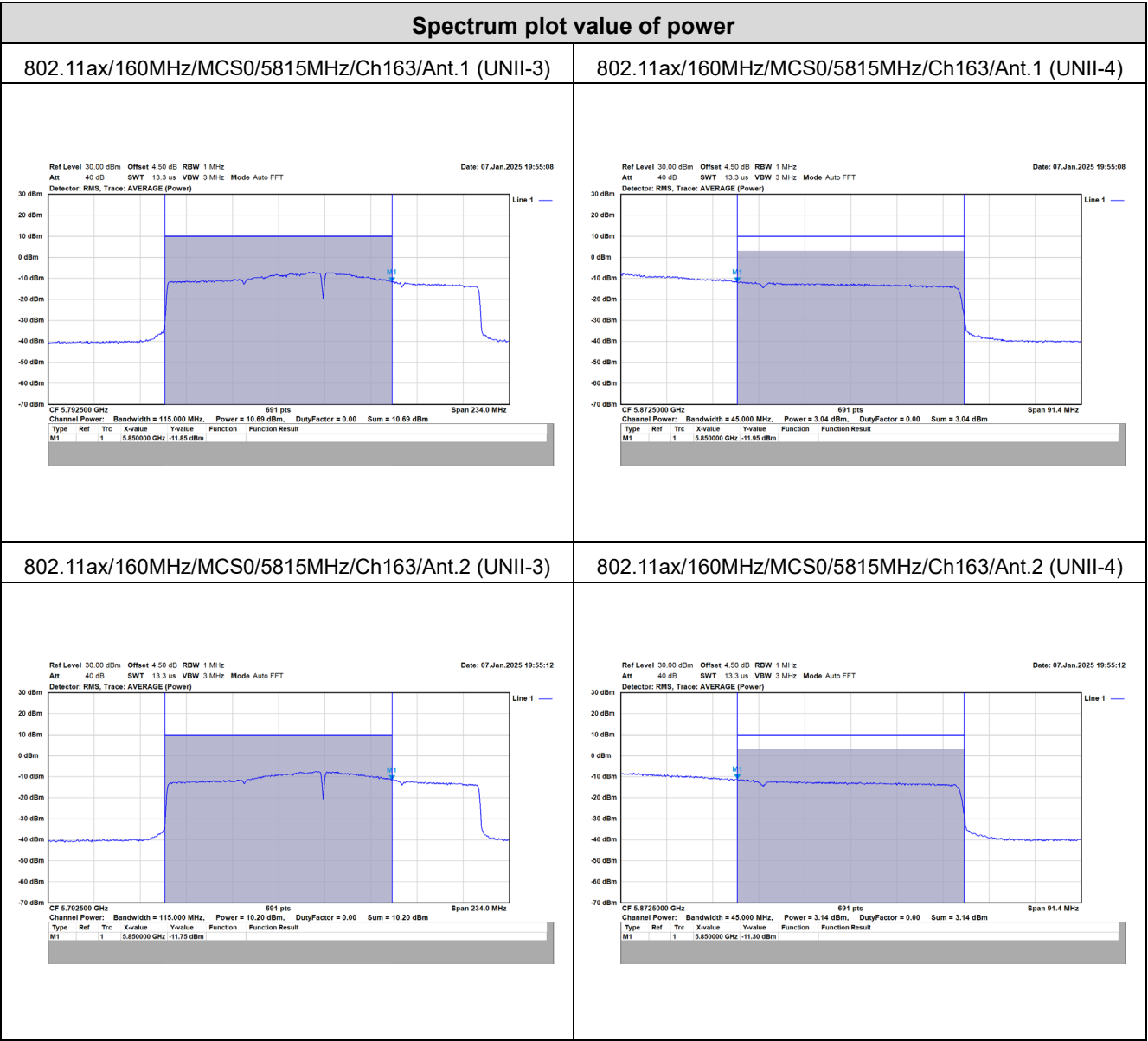


802.11ax/160MHz/MCS0/5250MHz/Ch50/Ant.2 (UNII-1)



802.11ax/160MHz/MCS0/5250MHz/Ch50/Ant.2 (UNII-2A)





Appendix D. Test Result of Maximum Power Spectral Density

< WiFi 5GHz U-NII-1>

Modulation	Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
		Ant. 1	Ant. 2	Total		
802.11a	5180	5.19	4.63	8.49	10.98	Pass
	5220	4.93	5.58	8.46	10.98	Pass
	5240	4.57	4.72	8.07	10.98	Pass
802.11ax (20MHz)	5180	4.24	3.93	7.08	10.98	Pass
	5220	3.29	4.59	6.90	10.98	Pass
	5240	3.64	4.09	6.77	10.98	Pass
802.11ax (40MHz)	5190	1.95	0.70	4.41	10.98	Pass
	5230	1.85	1.62	4.50	10.98	Pass
802.11ax (80MHz)	5210	-0.80	-1.42	1.48	10.98	Pass
802.11ax (160MHz)	5250 (UNII-1)	-6.74	-5.92	-3.56	10.98	Pass

Directional Gain = $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}]$ for U-NII-1: 6.02dBi > 6dBi

For U-NII-1 limit of Indoor slave = $11 - (6.02 - 6) = 10.98\text{dBm}$.

< WiFi 5GHz U-NII-2A>

Modulation	Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
		Ant. 1	Ant. 2	Total		
802.11a	5260	4.40	5.45	8.53	11.00	Pass
	5300	4.65	4.89	8.25	11.00	Pass
	5320	4.16	5.02	8.12	11.00	Pass
802.11ax (20MHz)	5260	3.76	4.22	6.99	11.00	Pass
	5300	3.68	4.47	6.91	11.00	Pass
	5320	3.61	4.74	7.04	11.00	Pass
802.11ax (40MHz)	5270	0.68	1.53	4.13	11.00	Pass
	5310	0.91	1.26	4.11	11.00	Pass
Modulation	Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
		Ant. 1	Ant. 2	Total		
802.11ax (80MHz)	5290	-0.82	-1.13	1.78	11.00	Pass
802.11ax (160MHz)	5250 (UNII-2A)	-6.11	-6.37	-3.29	11.00	Pass

< WiFi 5GHz U-NII-2C>

Modulation	Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
		Ant. 1	Ant. 2	Total		
802.11a	5500	1.88	1.60	5.02	11.00	Pass
	5580	2.17	1.52	4.91	11.00	Pass
	5700	1.78	1.03	4.85	11.00	Pass
	5720 (UNII-2C)	2.60	2.11	5.70	11.00	Pass
802.11ax (20MHz)	5500	2.14	1.73	4.59	11.00	Pass
	5580	1.33	0.90	3.93	11.00	Pass
	5700	1.46	1.02	4.28	11.00	Pass
	5720 (UNII-2C)	2.72	1.77	5.38	11.00	Pass
802.11ax (40MHz)	5510	-1.85	-1.66	1.27	11.00	Pass
	5550	-1.18	-1.44	1.54	11.00	Pass
	5670	-0.87	-1.86	1.48	11.00	Pass
	5710 (UNII-2C)	-0.67	-1.02	2.07	11.00	Pass
802.11ax (80MHz)	5530	-2.99	-3.17	-0.38	11.00	Pass
	5610	-3.46	-3.47	-0.67	11.00	Pass
	5690 (UNII-2C)	-3.22	-3.66	-0.48	11.00	Pass
802.11ax (160MHz)	5570	-5.67	-6.18	-3.31	11.00	Pass

< WiFi 5GHz U-NII-3>

Modulation	Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500kHz)	Result
		Ant. 1	Ant. 2	Total		
802.11a	5720 (UNII-3)	-3.24	-4.04	-0.11	30.00	Pass
	5745	-1.87	-2.28	1.44	30.00	Pass
	5785	-1.39	-2.34	1.49	30.00	Pass
	5825	-1.43	-1.83	1.84	30.00	Pass
	5845 (UNII-3)	1.38	1.74	5.04	30.00	Pass
802.11ax (20MHz)	5720 (UNII-3)	-2.49	-3.92	-0.15	30.00	Pass
	5745	-1.75	-2.61	0.67	30.00	Pass
	5785	-1.89	-3.34	0.48	30.00	Pass
	5825	-2.25	-2.52	0.49	30.00	Pass
	5845 (UNII-3)	1.66	1.35	4.49	30.00	Pass
802.11ax (40MHz)	5710 (UNII-3)	-7.25	-7.92	-4.51	30.00	Pass
	5755	-4.88	-5.66	-2.15	30.00	Pass
	5795	-4.89	-5.69	-2.18	30.00	Pass
	5835 (UNII-3)	-1.38	-1.77	1.18	30.00	Pass
802.11ax (80MHz)	5690 (UNII-3)	-12.91	-12.97	-10.13	30.00	Pass
	5775	-7.20	-7.89	-4.53	30.00	Pass
	5855 (UNII-3)	-3.43	-2.84	-0.21	30.00	Pass
802.11ax (160MHz)	5815 (UNII-3)	-6.38	-7.11	-3.74	30.00	Pass

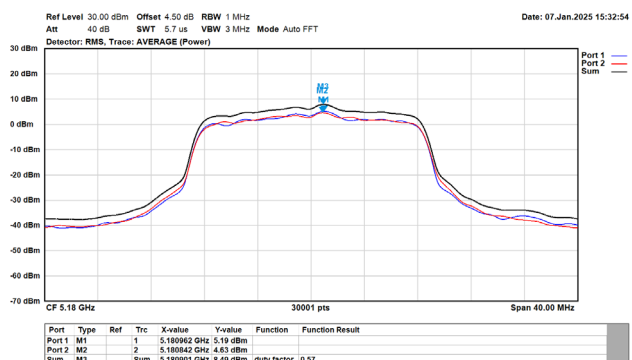
Directional Gain = $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}]$ for U-NII-3: 6.25dBi >6dBi.

For U-NII-3 limit = $30 - (6.25 - 6) = 29.75\text{dBm}$.

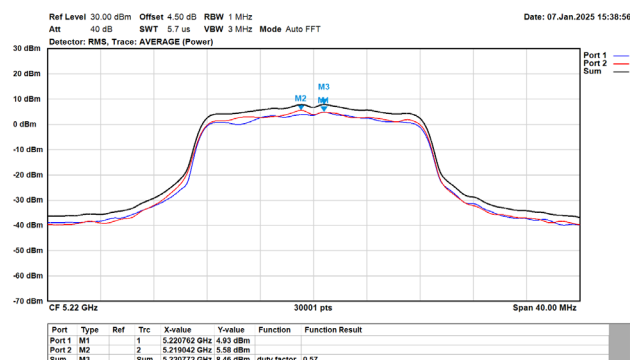
< WiFi 5GHz U-NII-4>

Modulation	Frequency (MHz)	Power Spectral Density (dBm/MHz)			EIRP PSD (dBm/MHz)		Result
		Ant. 1	Ant. 2	Total	Total	Limit	
802.11a	5845 (UNII-4)	-1.39	-1.3	1.89	8.14	14.00	Pass
	5865	1.65	1.44	5.11	11.36	14.00	Pass
	5885	1.42	1.59	5.06	11.31	14.00	Pass
802.11ax (20MHz)	5845 (UNII-4)	-1.08	-1.48	1.81	8.06	14.00	Pass
	5865	0.86	0.87	3.93	10.18	14.00	Pass
	5885	1.01	0.91	4.05	10.30	14.00	Pass
802.11ax (40MHz)	5835 (UNII-4)	-4.98	-5.93	-2.42	3.83	14.00	Pass
	5875	-1.26	-1.01	1.98	8.23	14.00	Pass
802.11ax (80MHz)	5855 (UNII-4)	-2.72	-2.88	0.21	6.46	14.00	Pass
802.11ax (160MHz)	5815 (UNII-4)	-11.89	-10.69	-8.41	-2.16	14.00	Pass

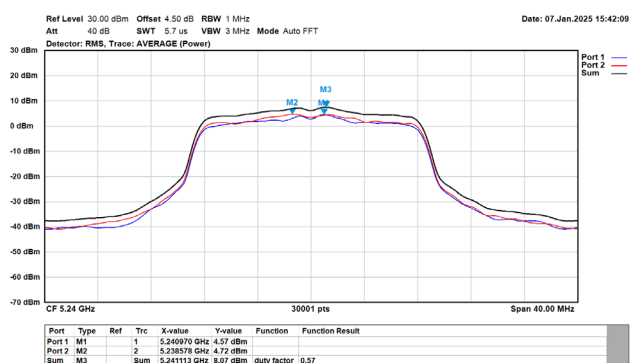
802.11a/20MHz/6M/5180MHz/Ch36



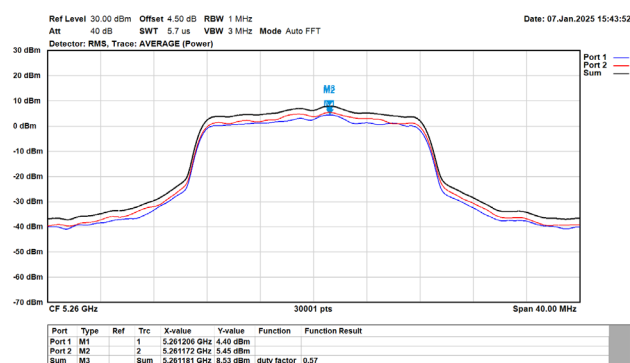
802.11a/20MHz/6M/5220MHz/Ch44



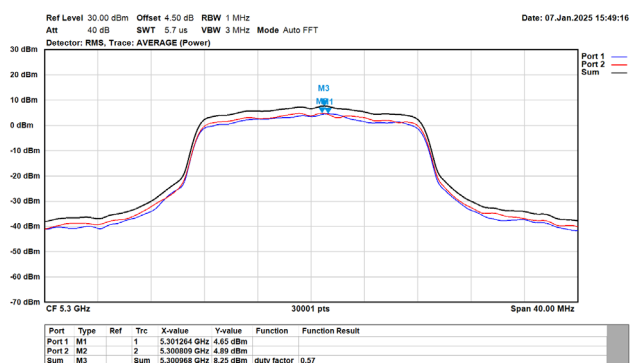
802.11a/20MHz/6M/5240MHz/Ch48



802.11a/20MHz/6M/5260MHz/Ch52



802.11a/20MHz/6M/5300MHz/Ch60



802.11a/20MHz/6M/5320MHz/Ch64

