

Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi3

7.5 26DB & 99% OCCUPIED BANDWIDTH MEASUREMENT

7.5.1 LIMIT OF 26DB & 99% OCCUPIED BANDWIDTH

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

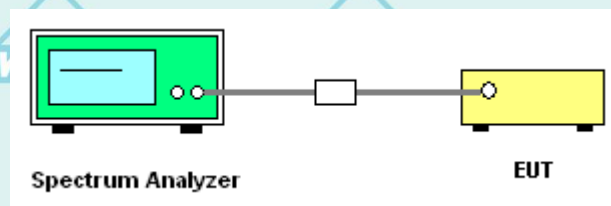
7.5.2 MEASURING INSTRUMENTS

See list of measuring equipment of this test report.

7.5.3 TEST PROCEDURES

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

7.5.4 TEST SETUP

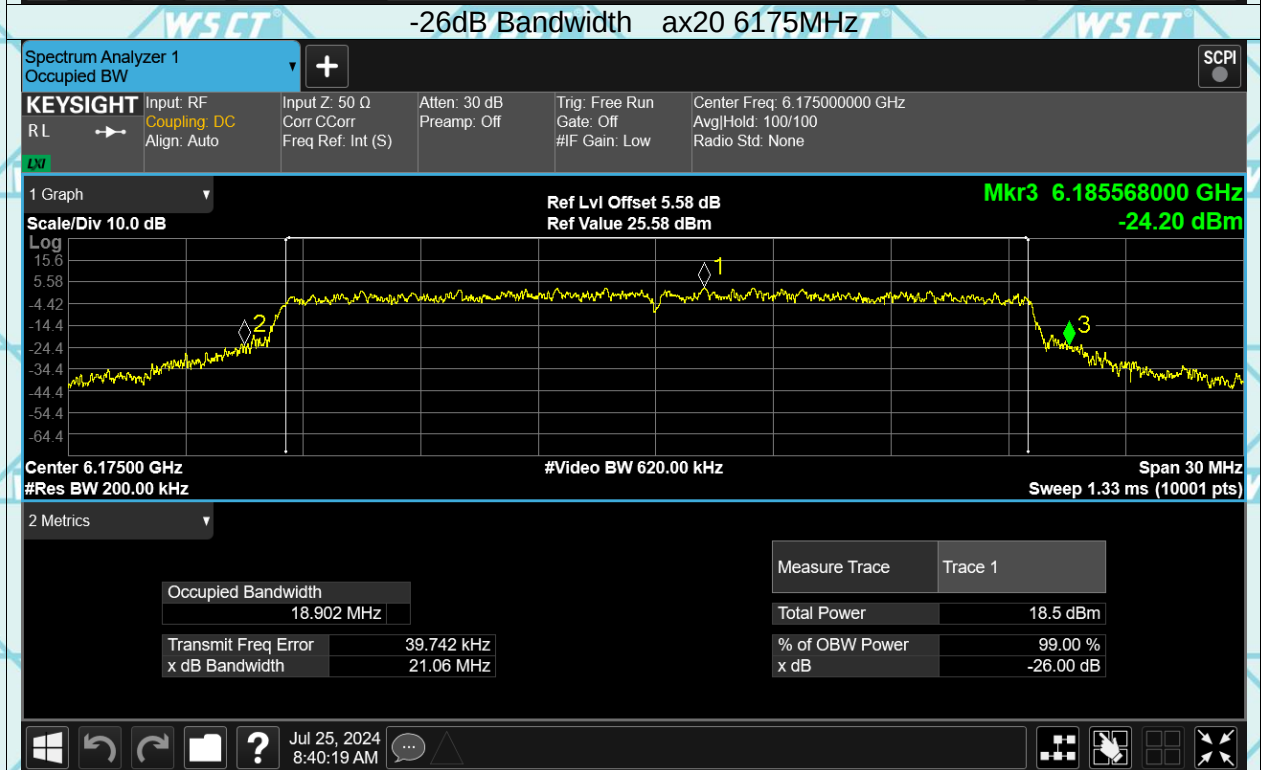
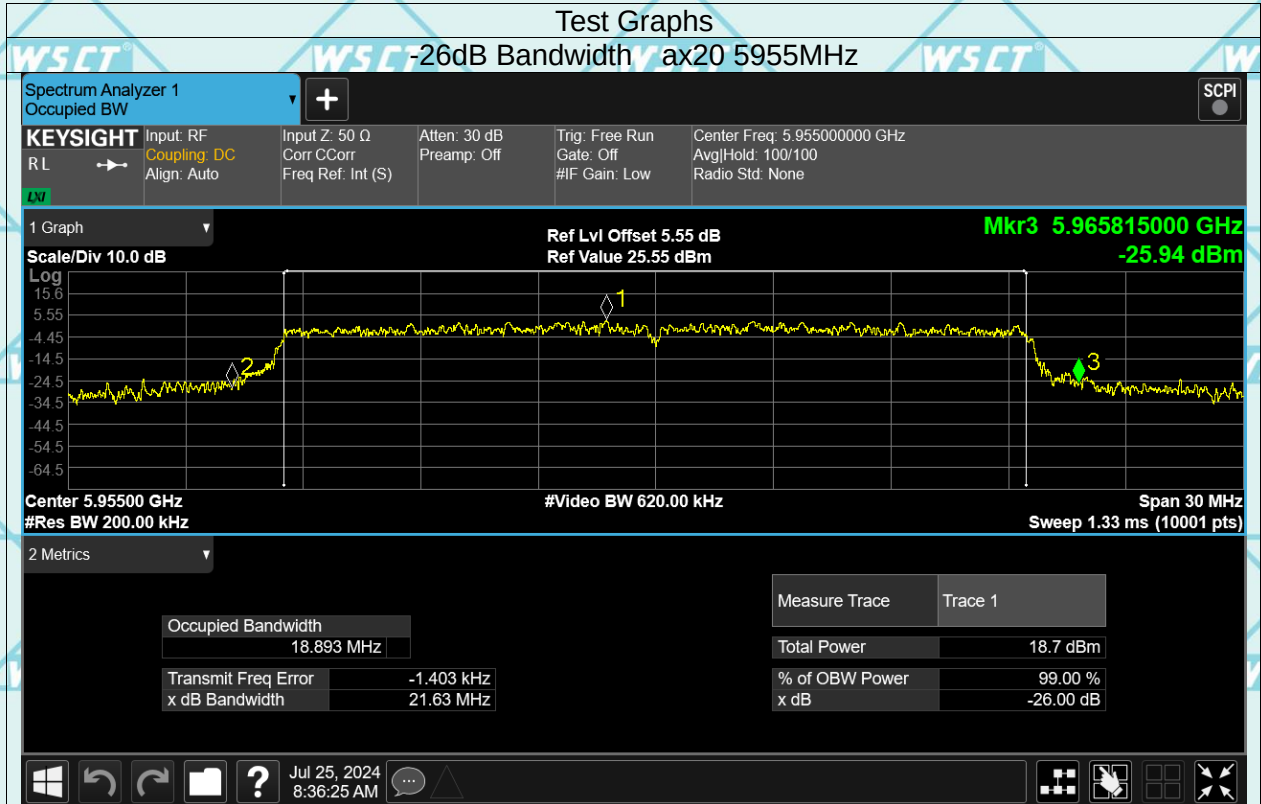


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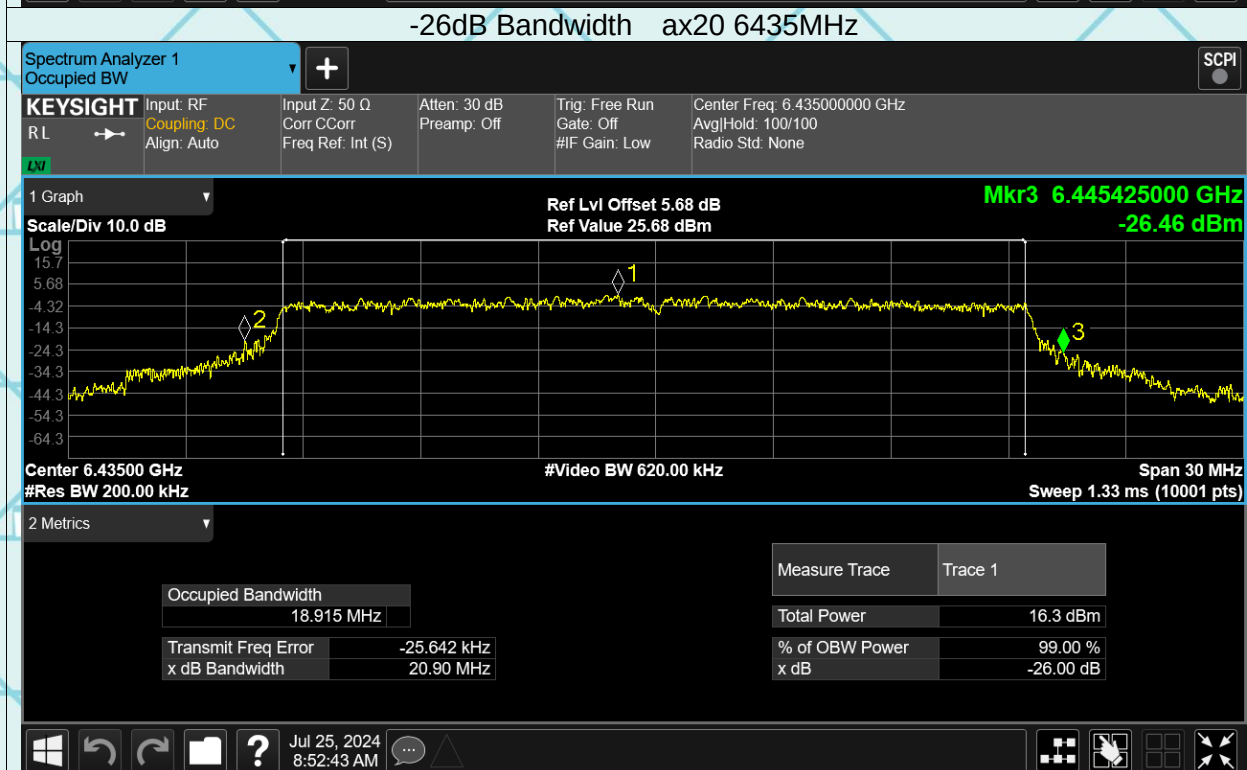
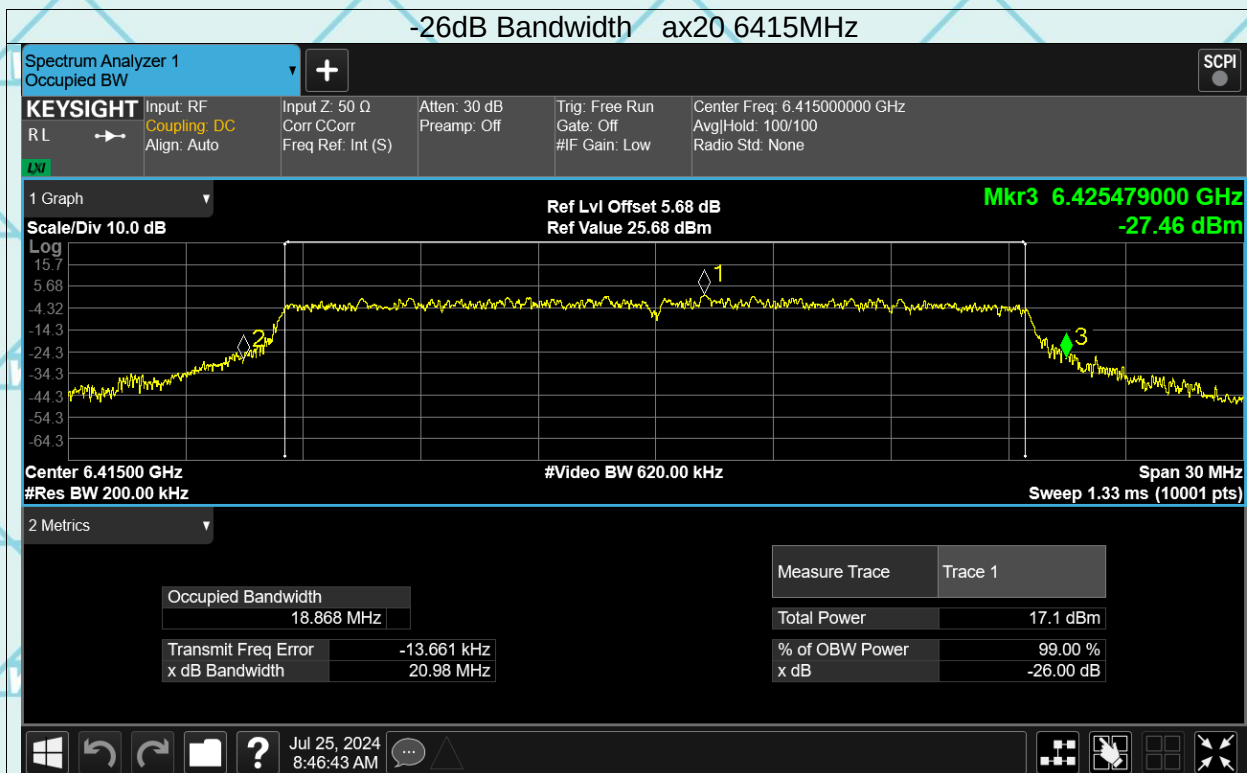
Test Result of 26dB & 99% Occupied Bandwidth

Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Verdict
ax20	5955	21.63	0.5	18.893	Pass
ax20	6175	21.06	0.5	18.902	Pass
ax20	6415	20.98	0.5	18.868	Pass
ax20	6435	20.90	0.5	18.915	Pass
ax20	6475	20.51	0.5	18.831	Pass
ax20	6515	21.14	0.5	18.887	Pass
ax20	6535	21.26	0.5	18.890	Pass
ax20	6695	20.94	0.5	18.877	Pass
ax20	6875	20.68	0.5	18.824	Pass
ax20	6895	21.31	0.5	18.915	Pass
ax20	6995	21.09	0.5	18.956	Pass
ax20	7095	21.39	0.5	18.875	Pass
ax40	5965	48.66	0.5	37.709	Pass
ax40	6165	39.43	0.5	37.495	Pass
ax40	6405	39.12	0.5	37.513	Pass
ax40	6445	39.46	0.5	37.595	Pass
ax40	6485	39.34	0.5	37.588	Pass
ax40	6525	39.30	0.5	37.572	Pass
ax40	6565	44.35	0.5	37.546	Pass
ax40	6685	39.14	0.5	37.492	Pass
ax40	6845	39.33	0.5	37.434	Pass
ax40	6885	39.29	0.5	37.548	Pass
ax40	6965	39.41	0.5	37.542	Pass
ax40	7085	49.44	0.5	37.718	Pass
ax80	5985	80.05	0.5	76.984	Pass
ax80	6145	79.67	0.5	76.926	Pass
ax80	6385	79.69	0.5	76.639	Pass
ax80	6465	79.68	0.5	76.959	Pass
ax80	6545	79.69	0.5	76.709	Pass
ax80	6625	79.80	0.5	76.694	Pass
ax80	6705	79.51	0.5	76.751	Pass
ax80	6865	79.68	0.5	76.675	Pass
ax80	6945	79.78	0.5	76.848	Pass
ax80	7025	82.63	0.5	76.841	Pass
ax160	6025	190.3	0.5	155.80	Pass
ax160	6185	161.0	0.5	155.22	Pass
ax160	6345	160.6	0.5	154.84	Pass
ax160	6505	161.3	0.5	155.89	Pass
ax160	6665	161.1	0.5	154.78	Pass
ax160	6825	189.7	0.5	155.91	Pass
ax160	6985	165.1	0.5	155.43	Pass

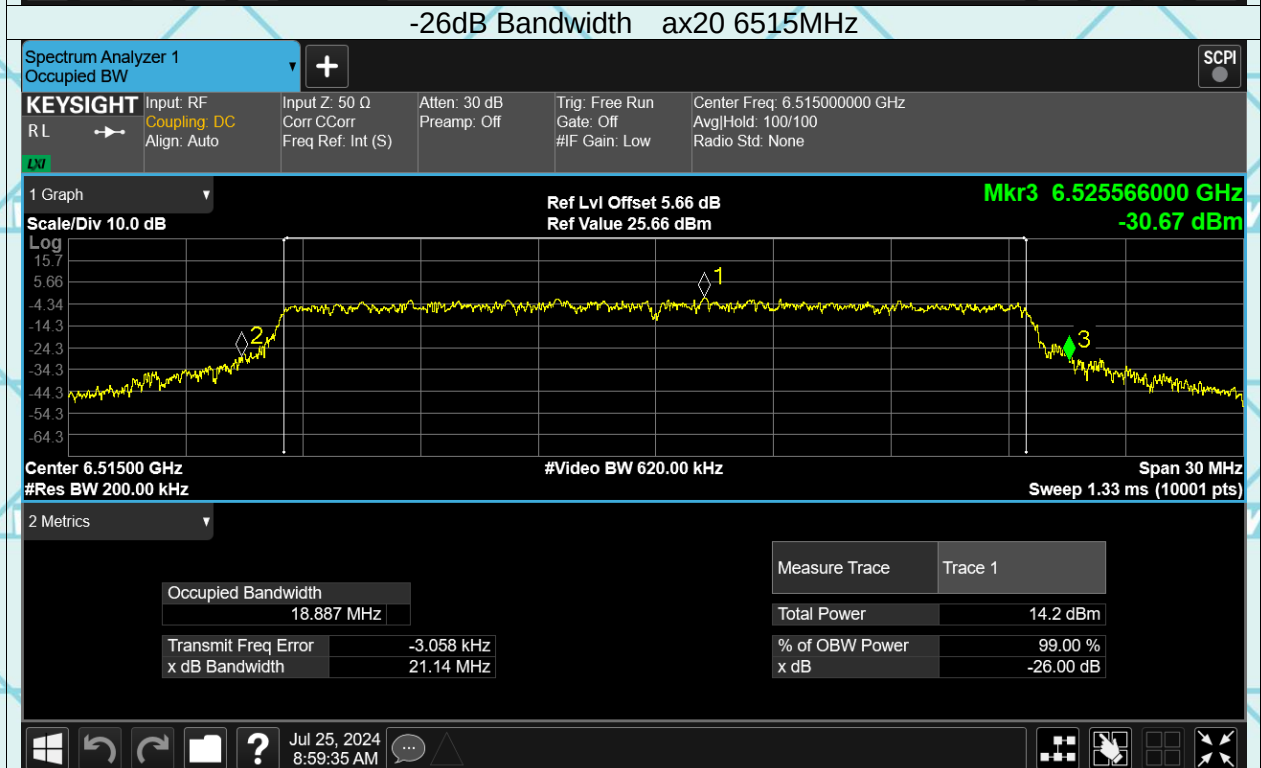
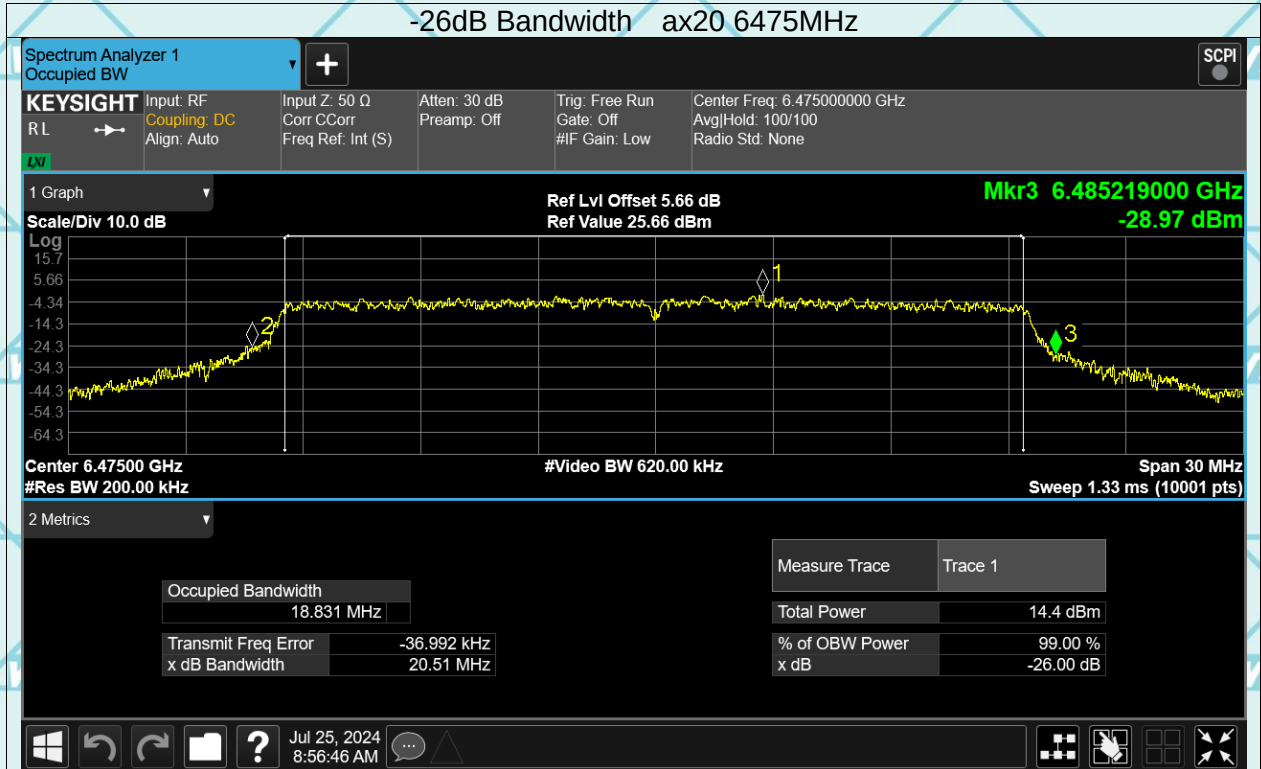
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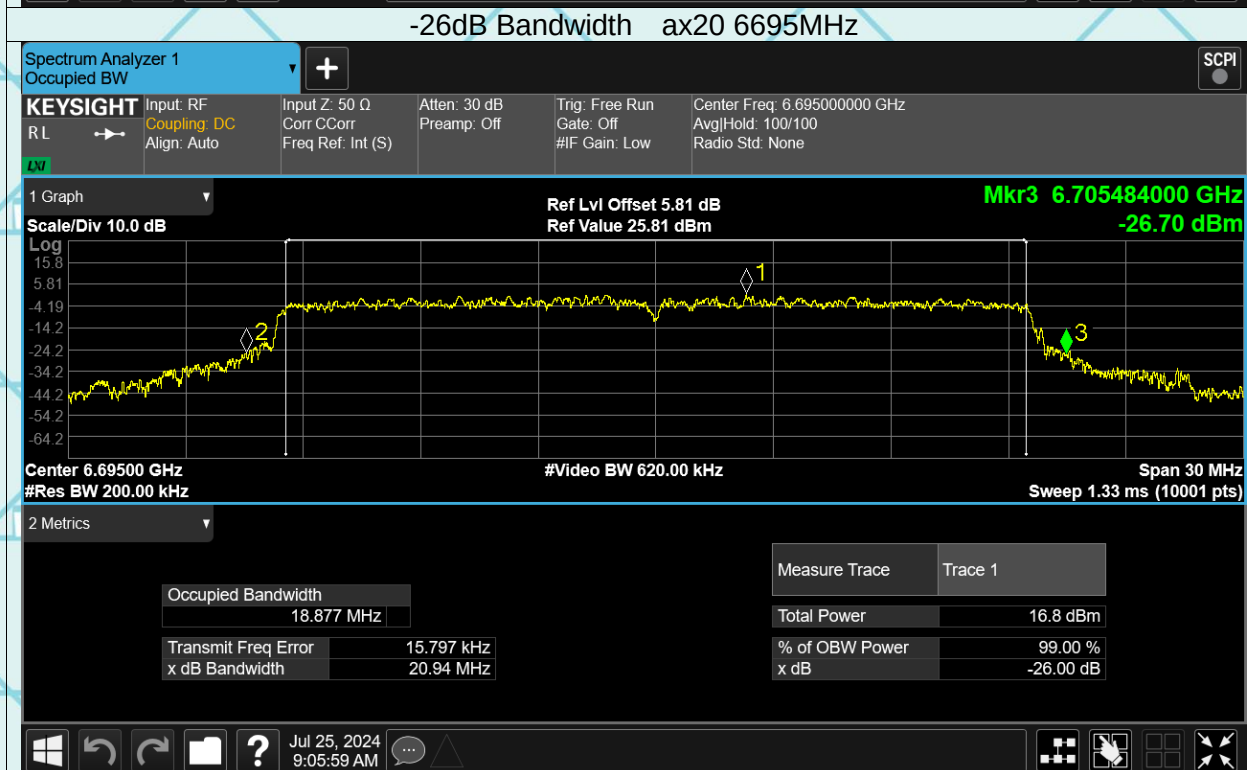
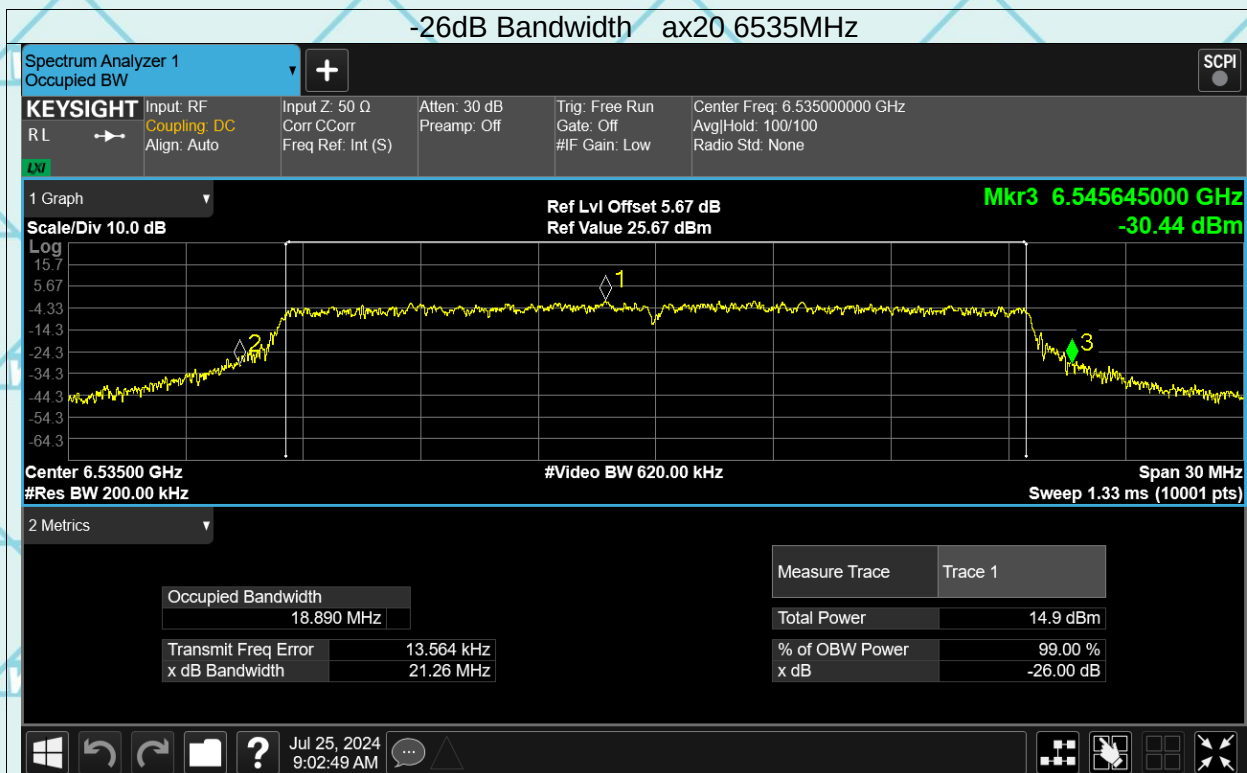
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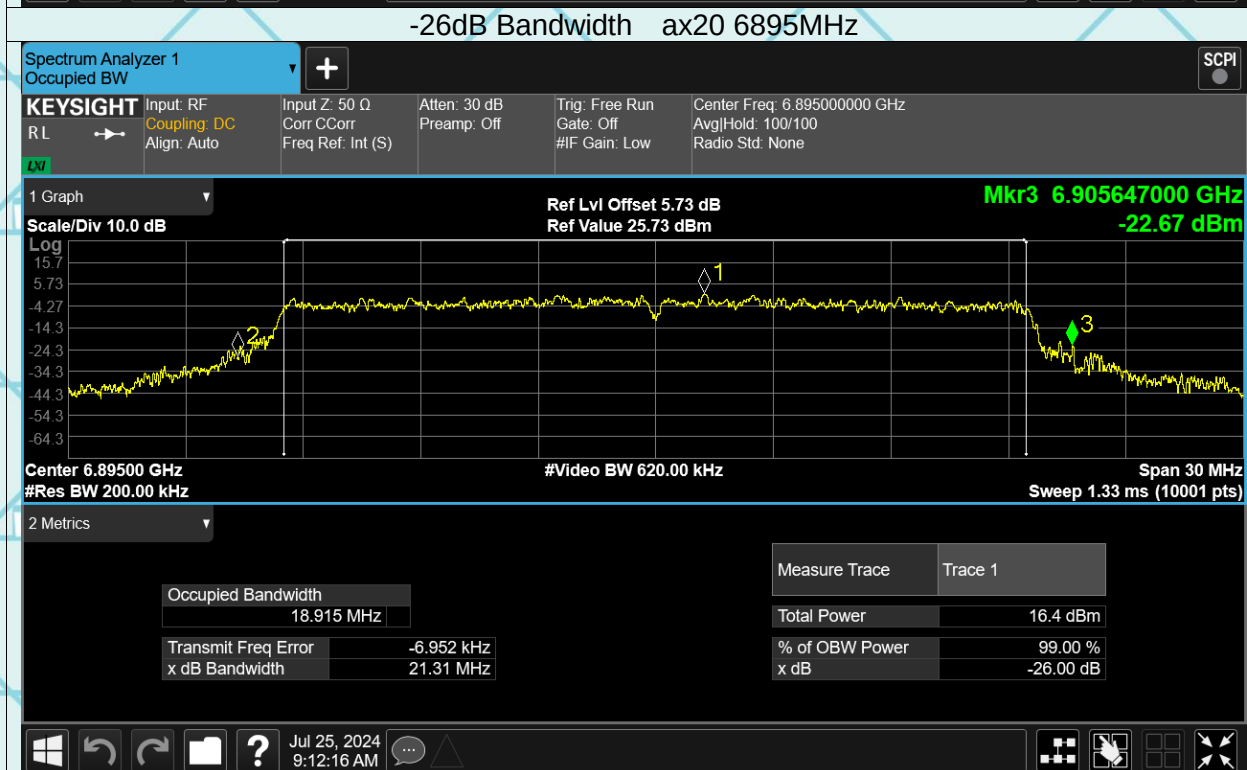
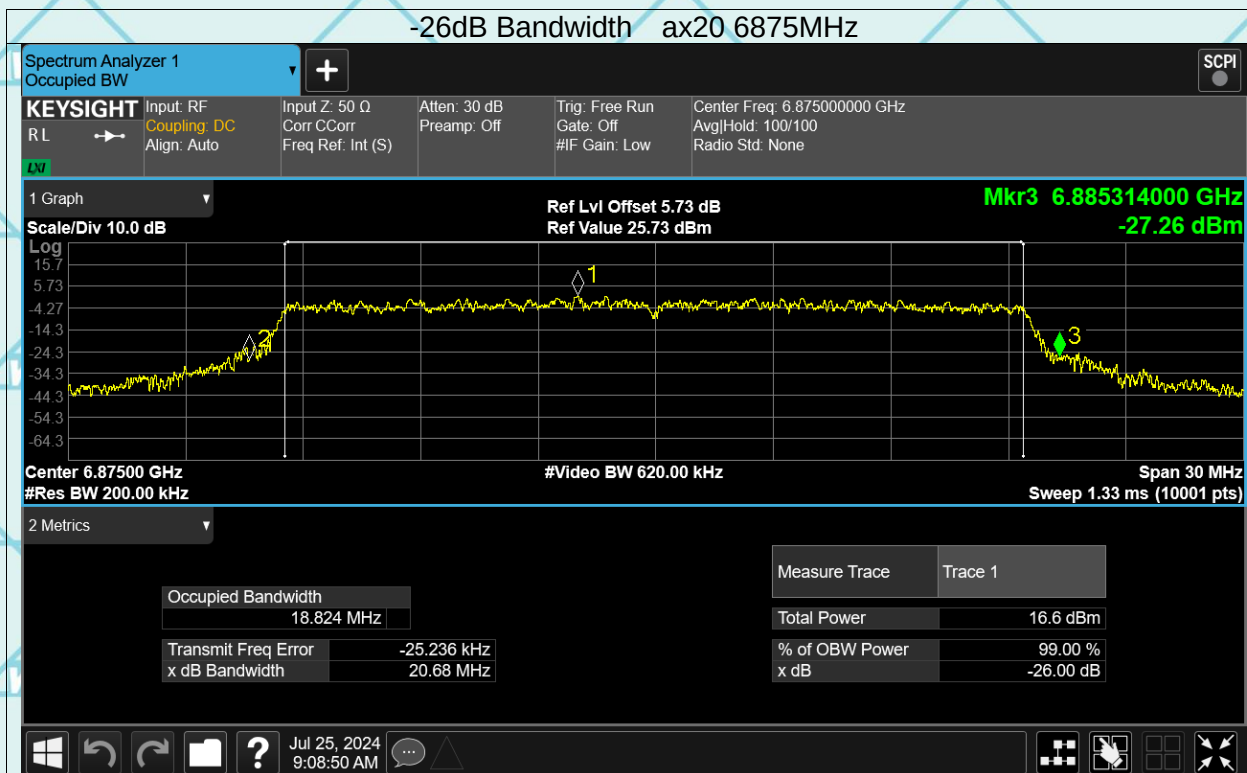
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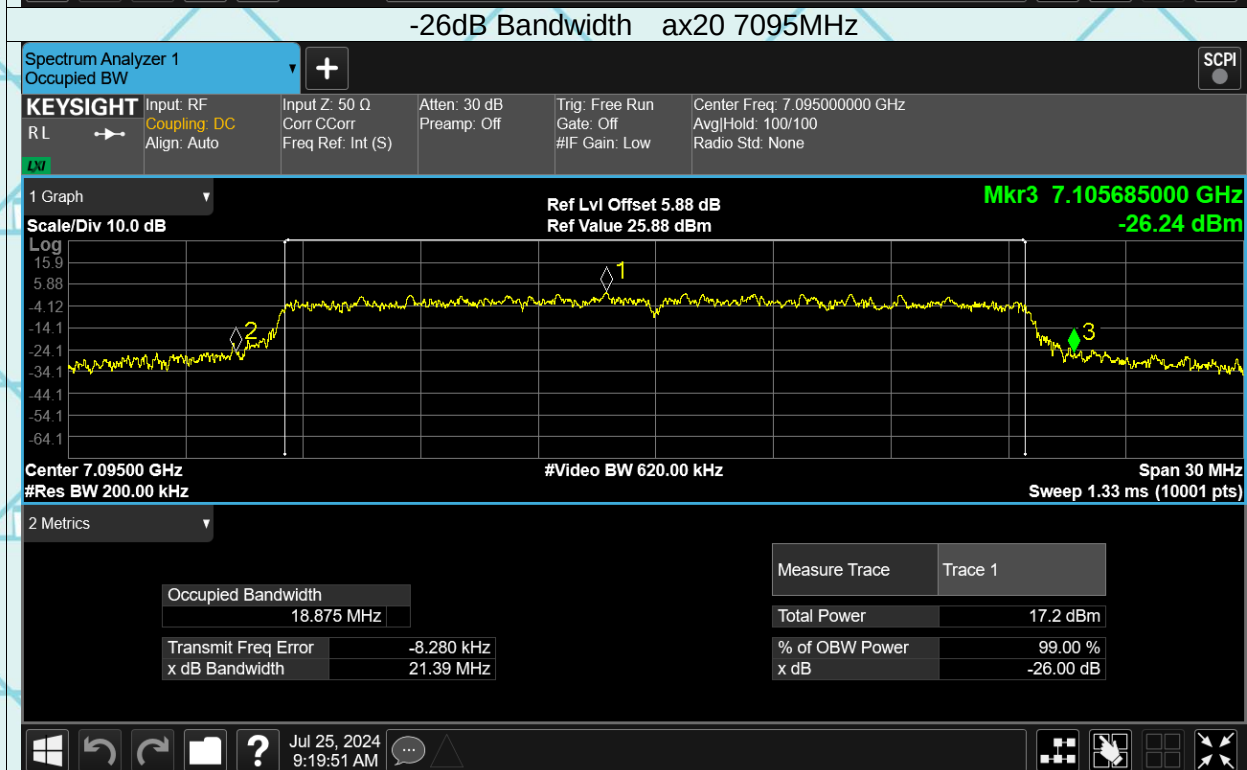
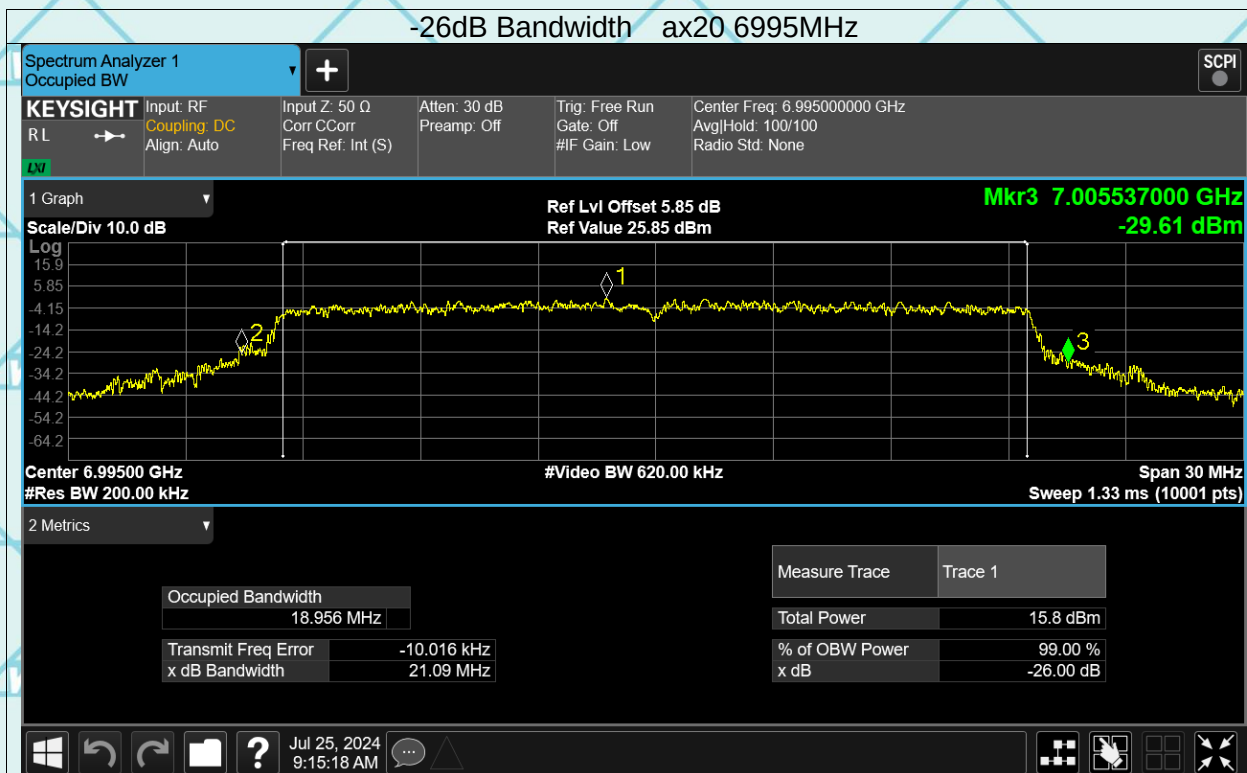
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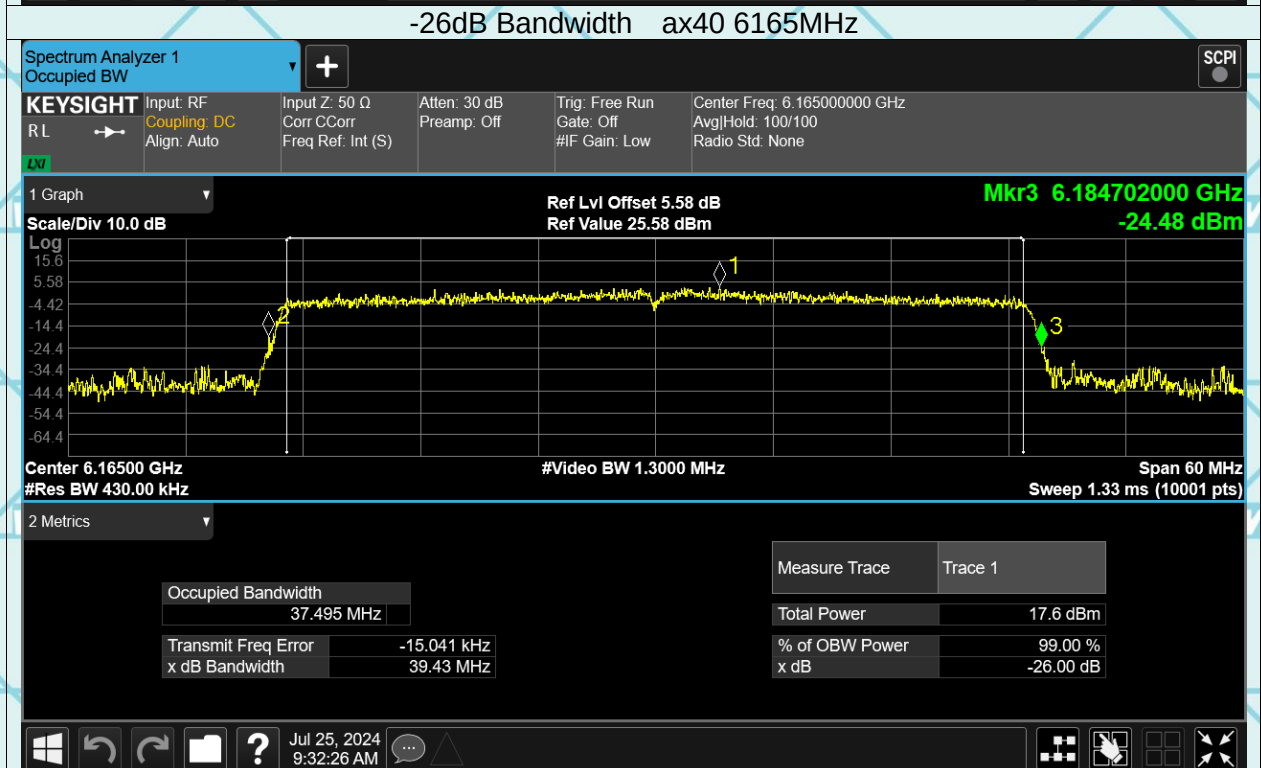
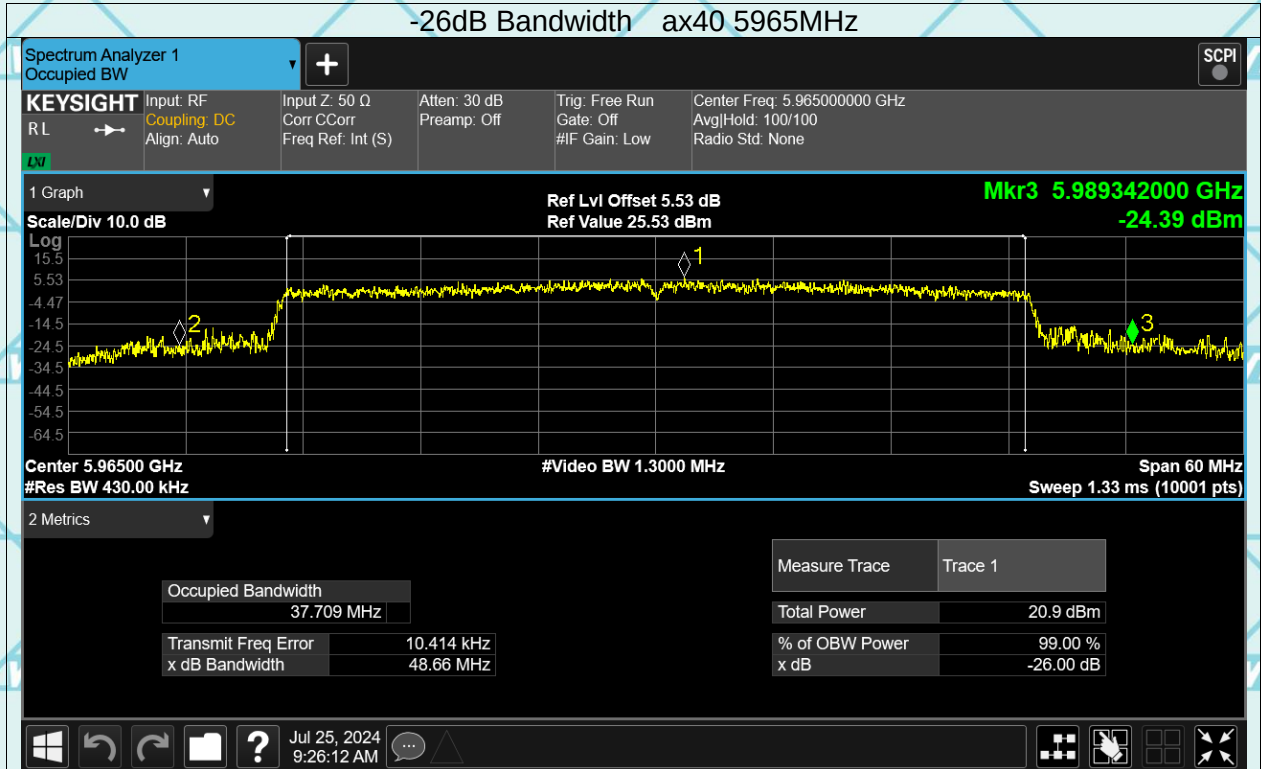
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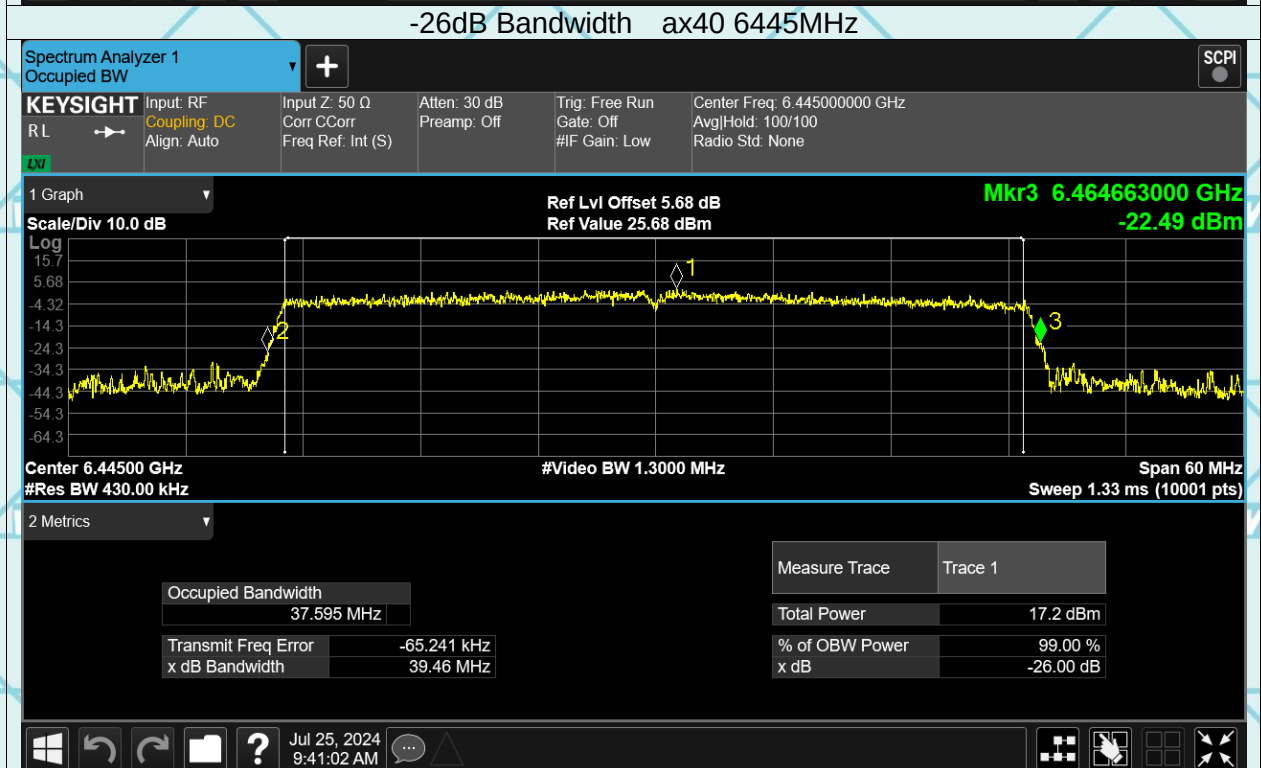
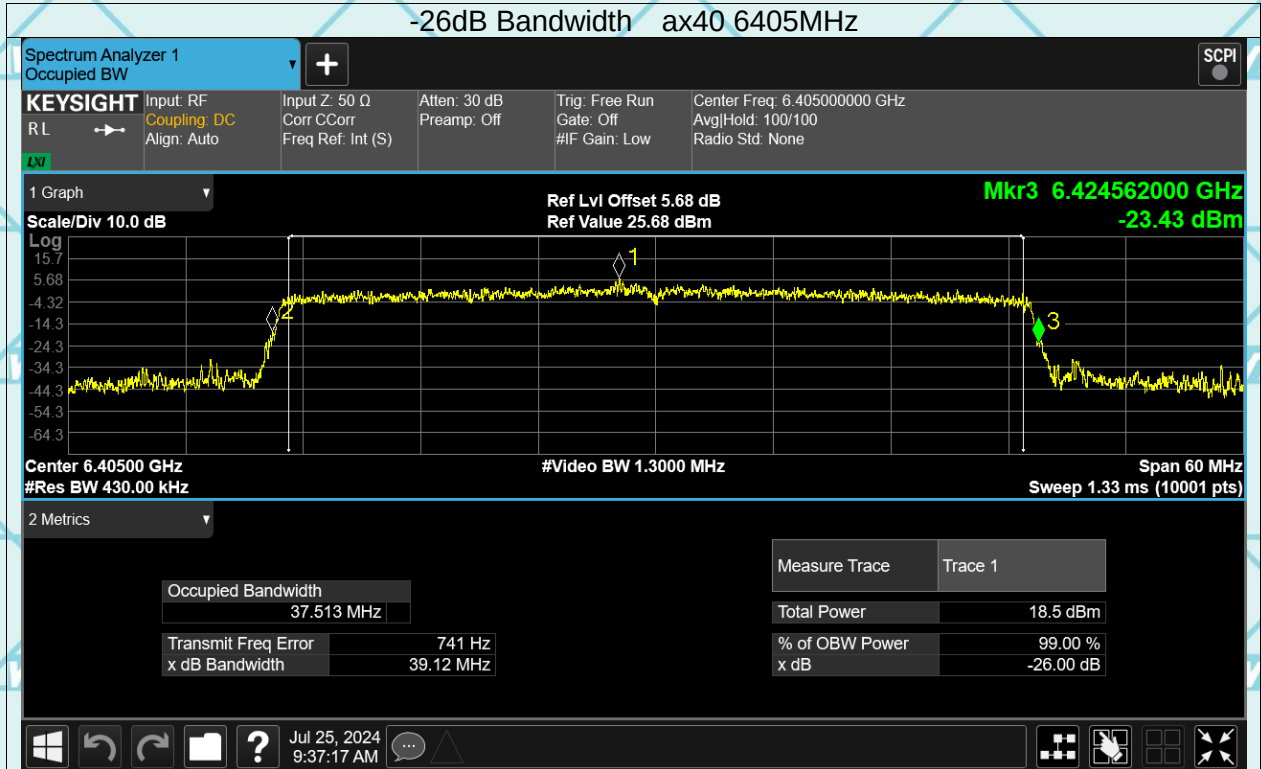
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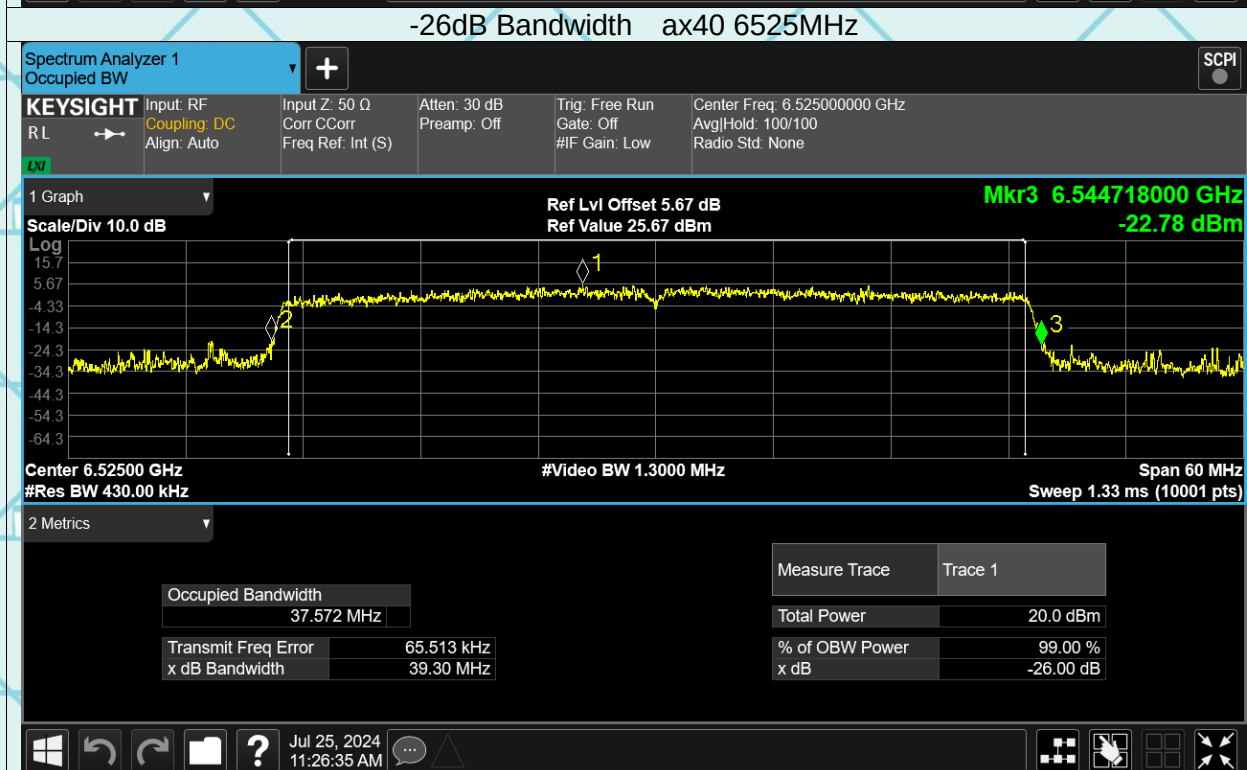
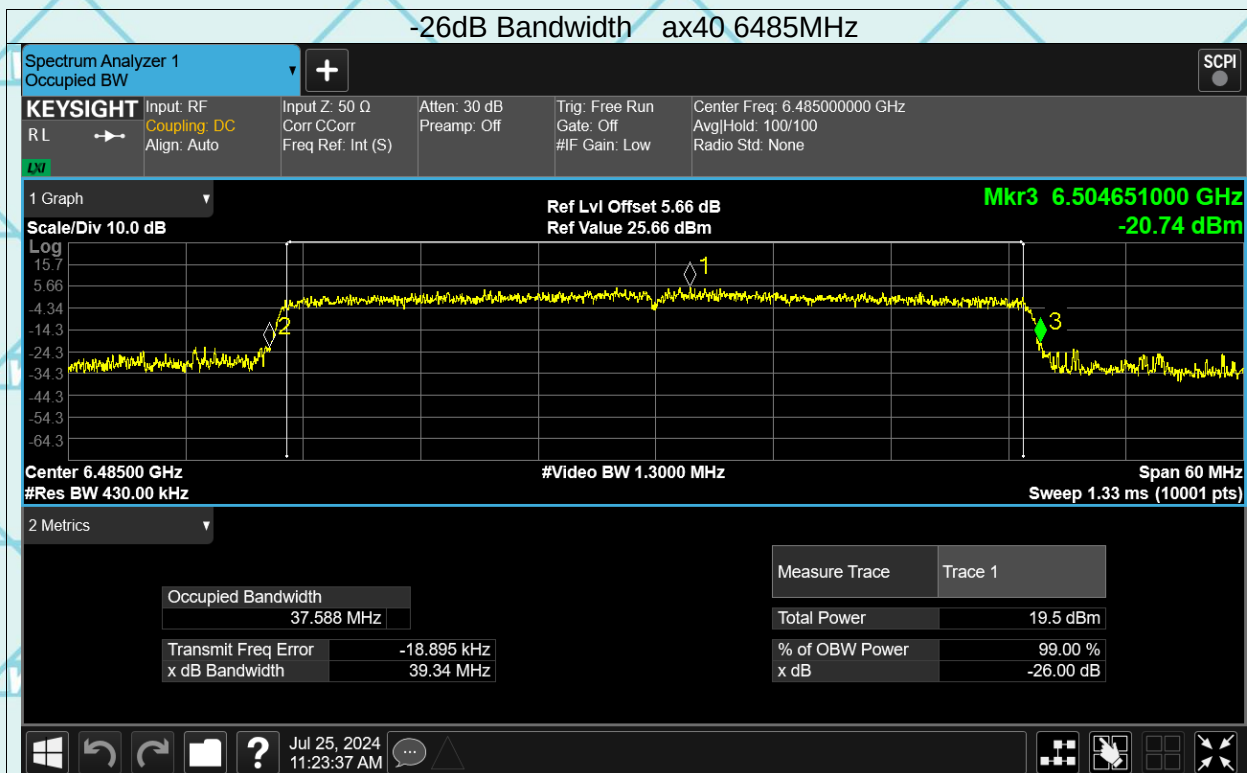
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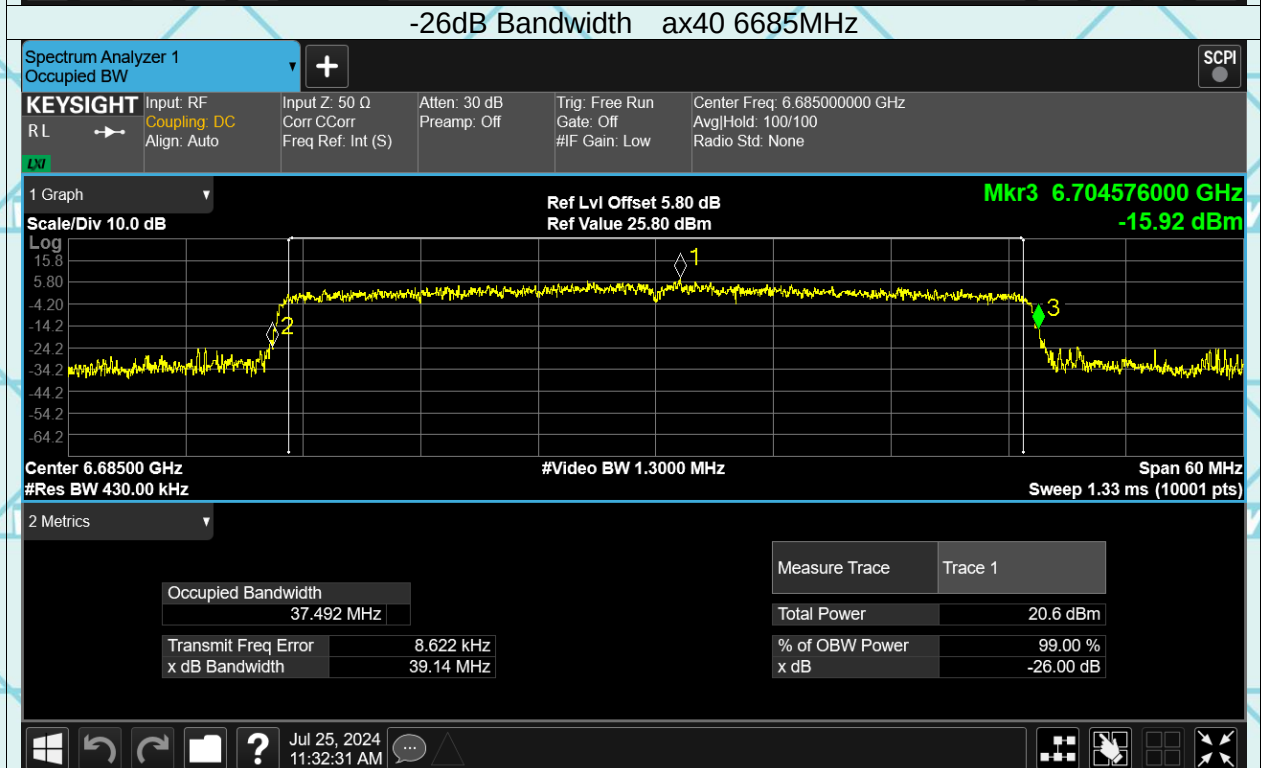
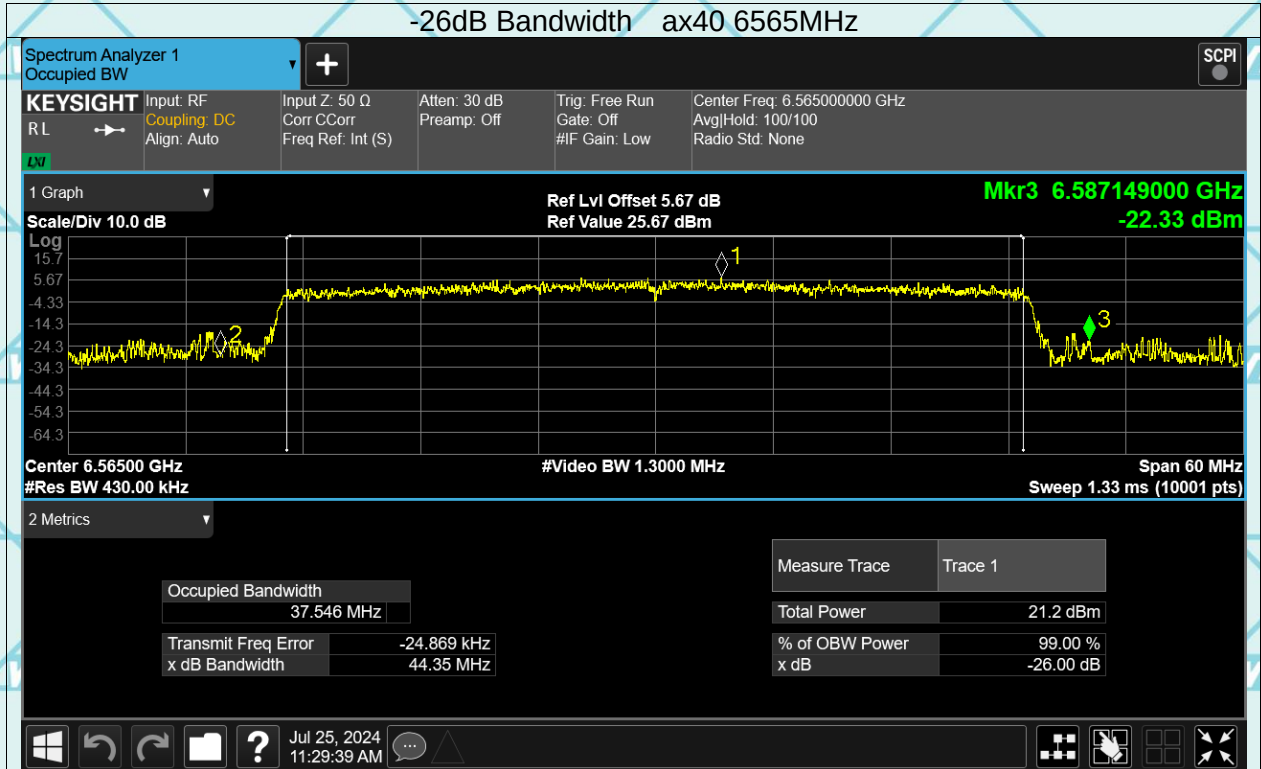
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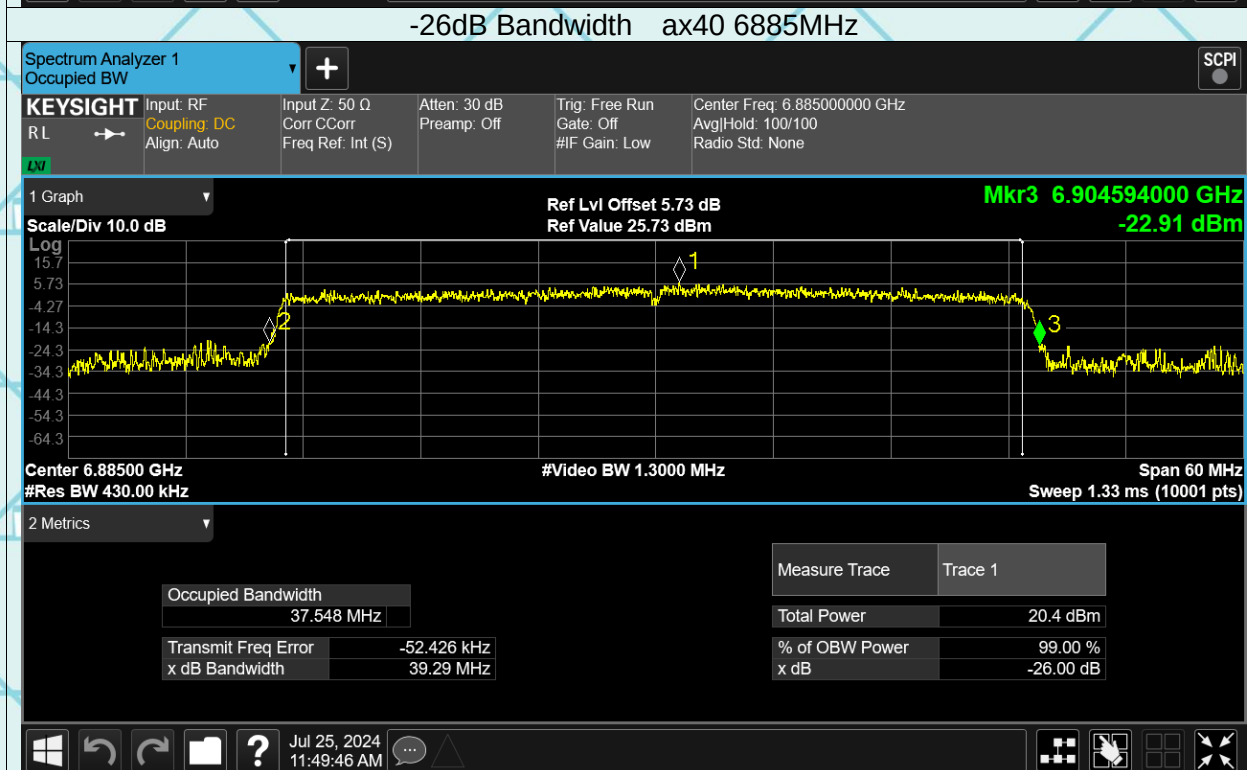
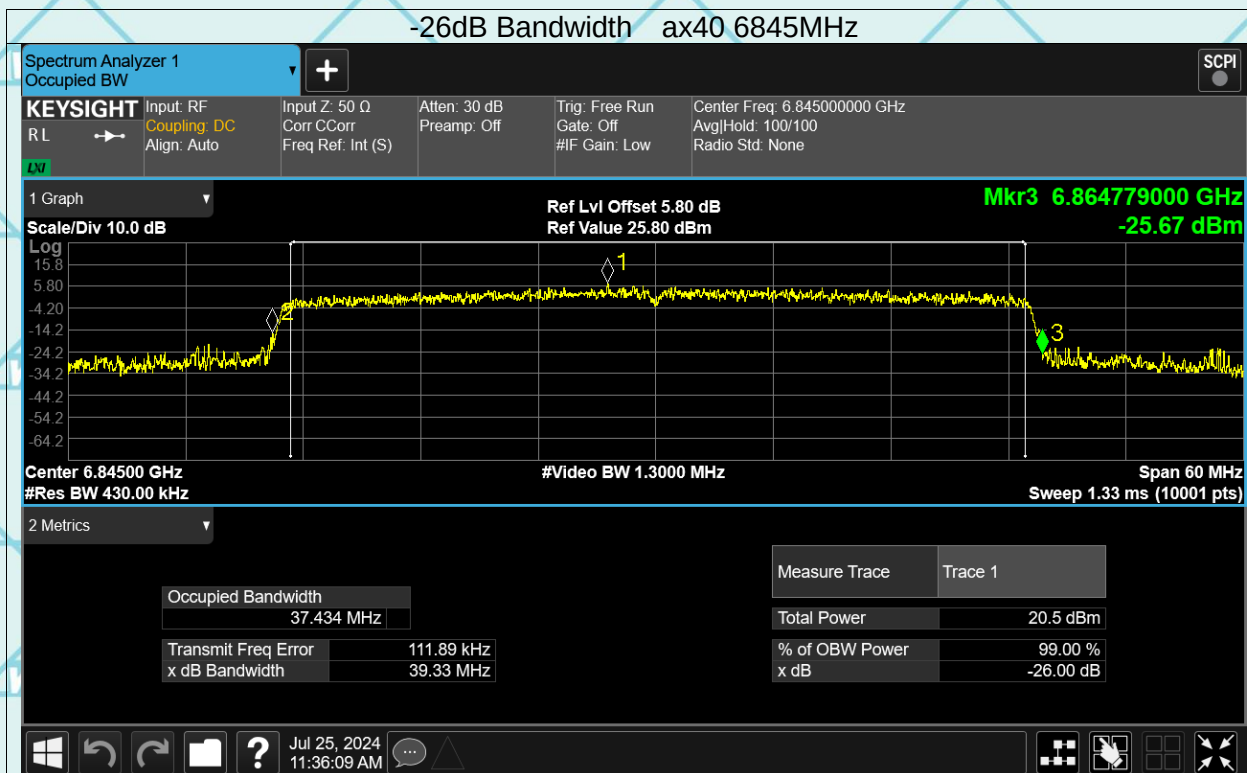
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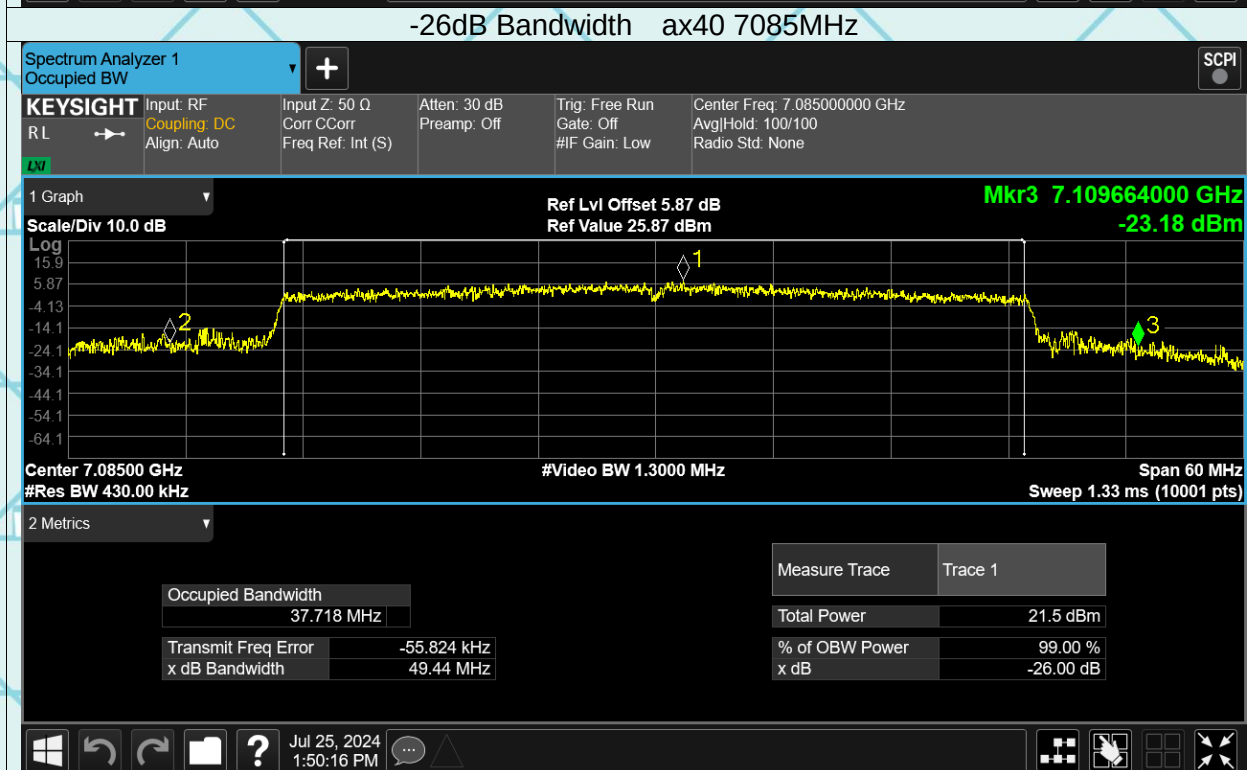
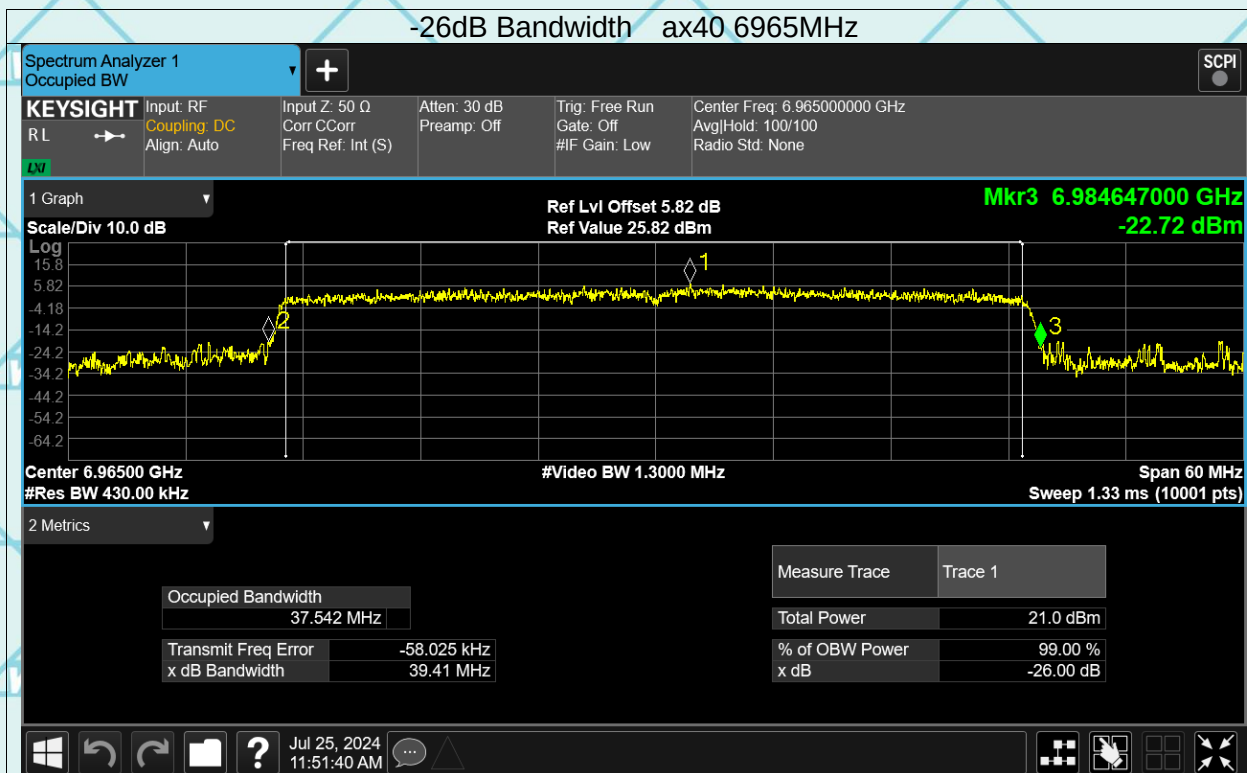
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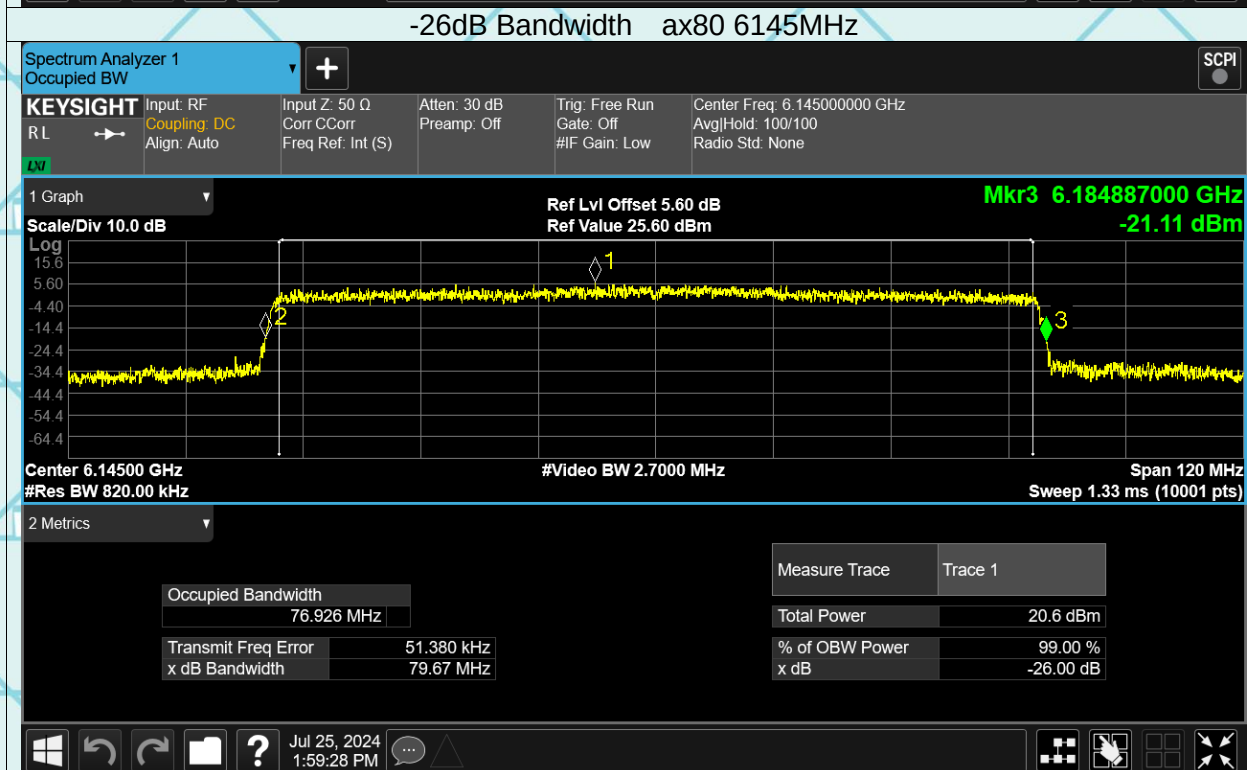
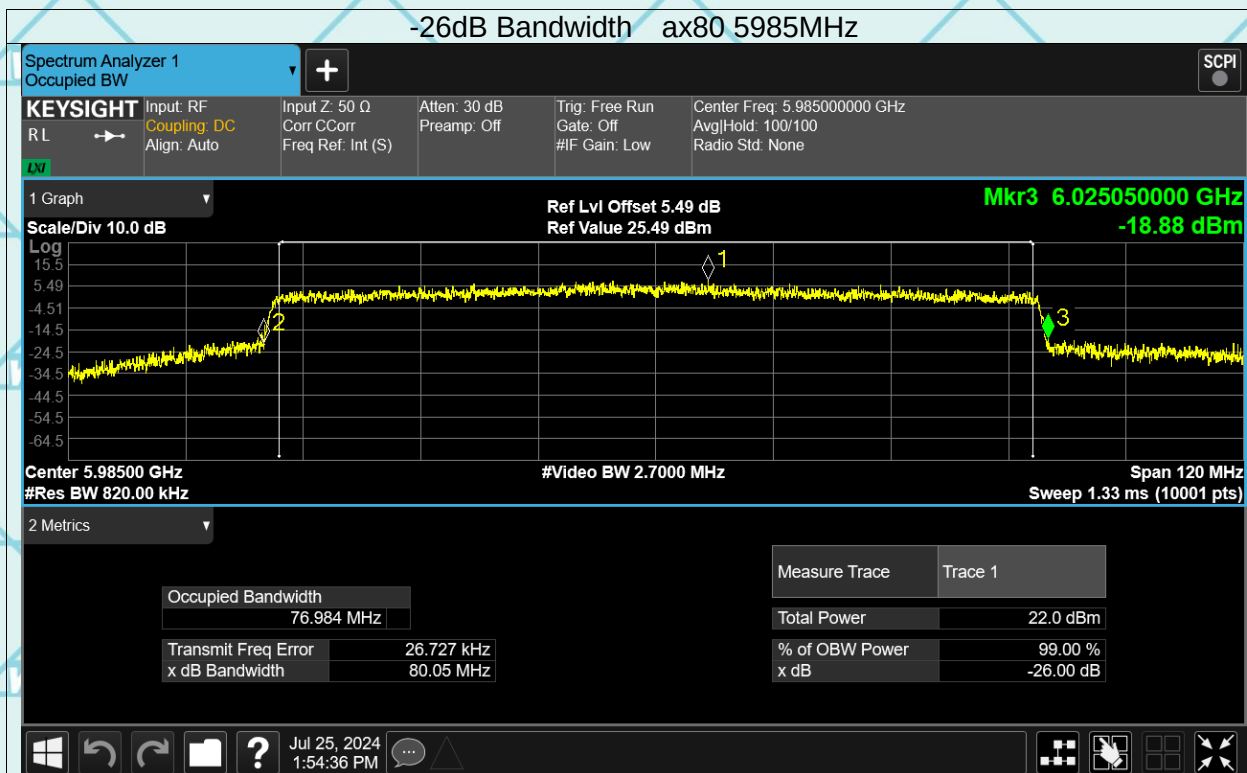
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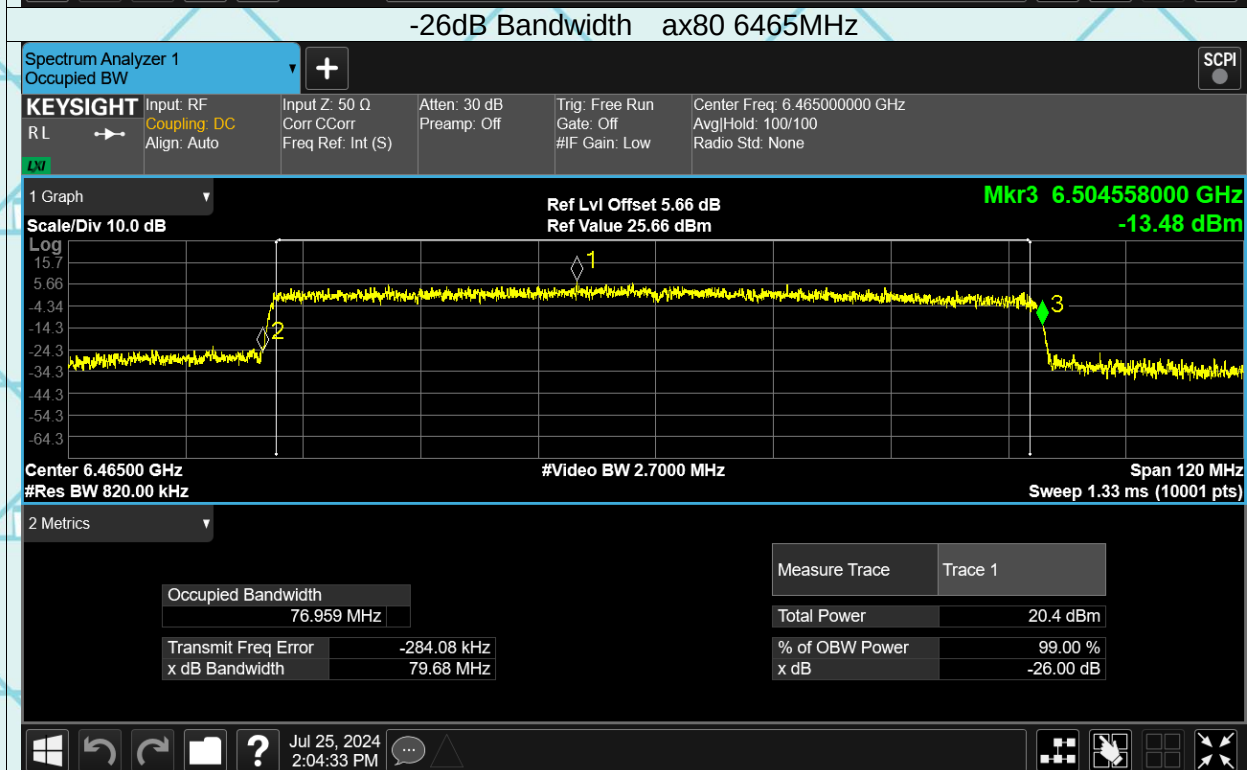
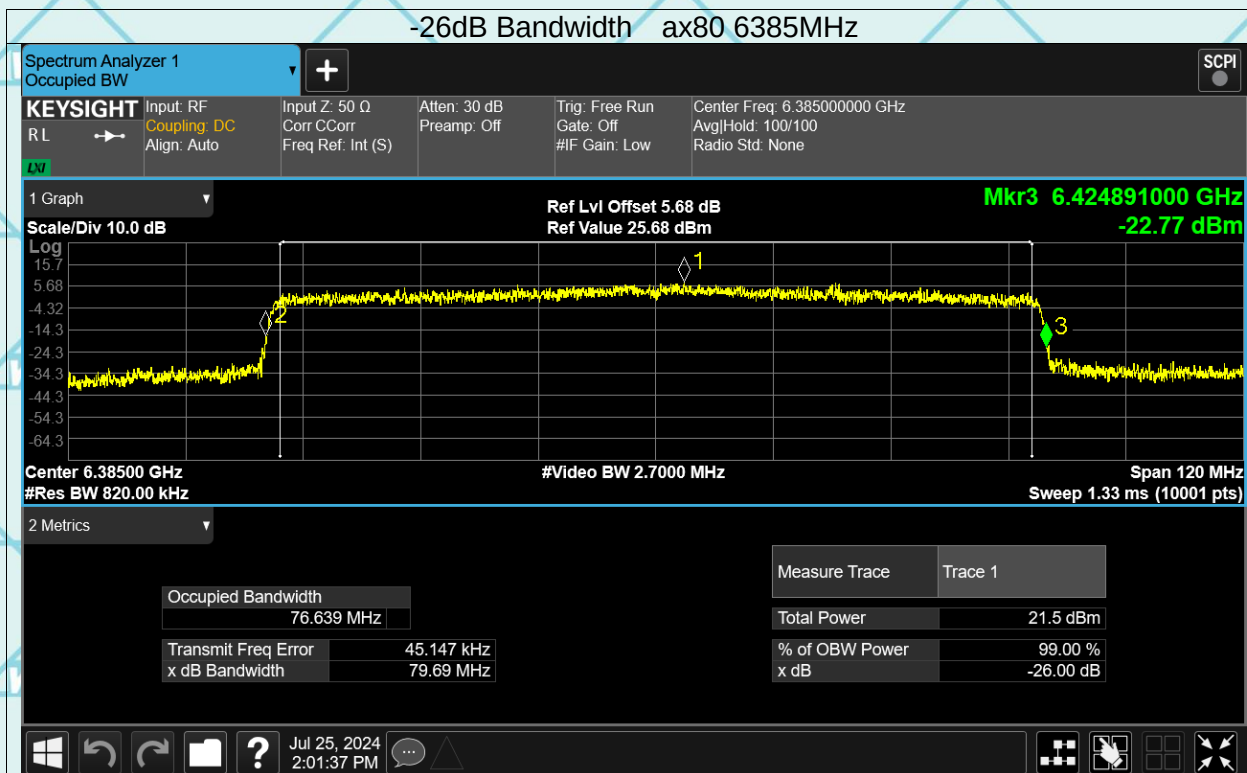
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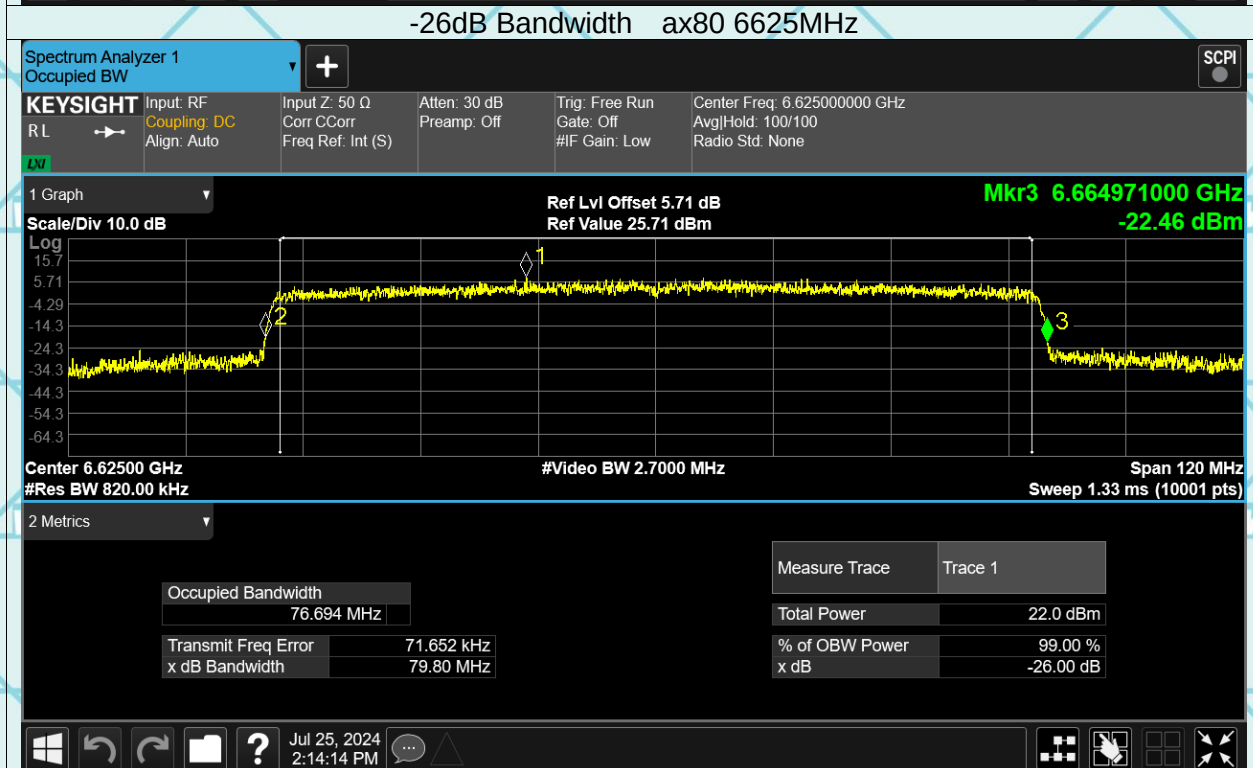
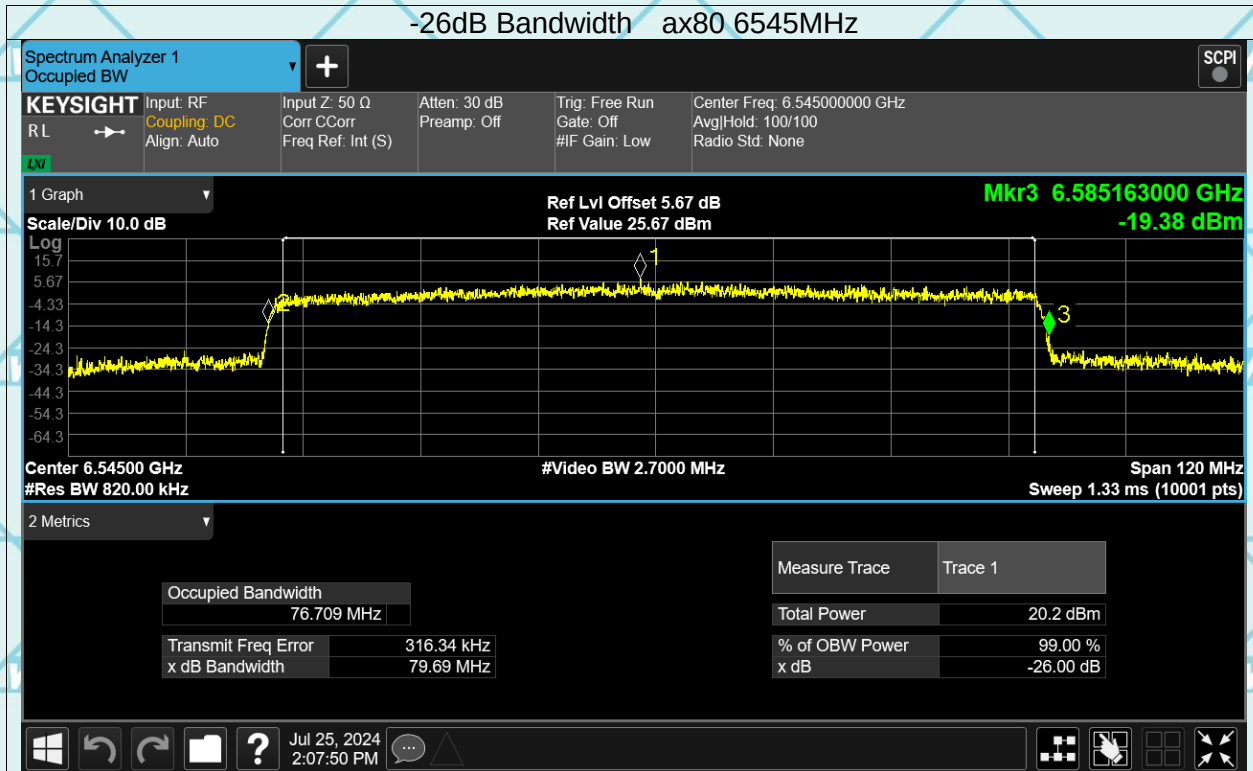
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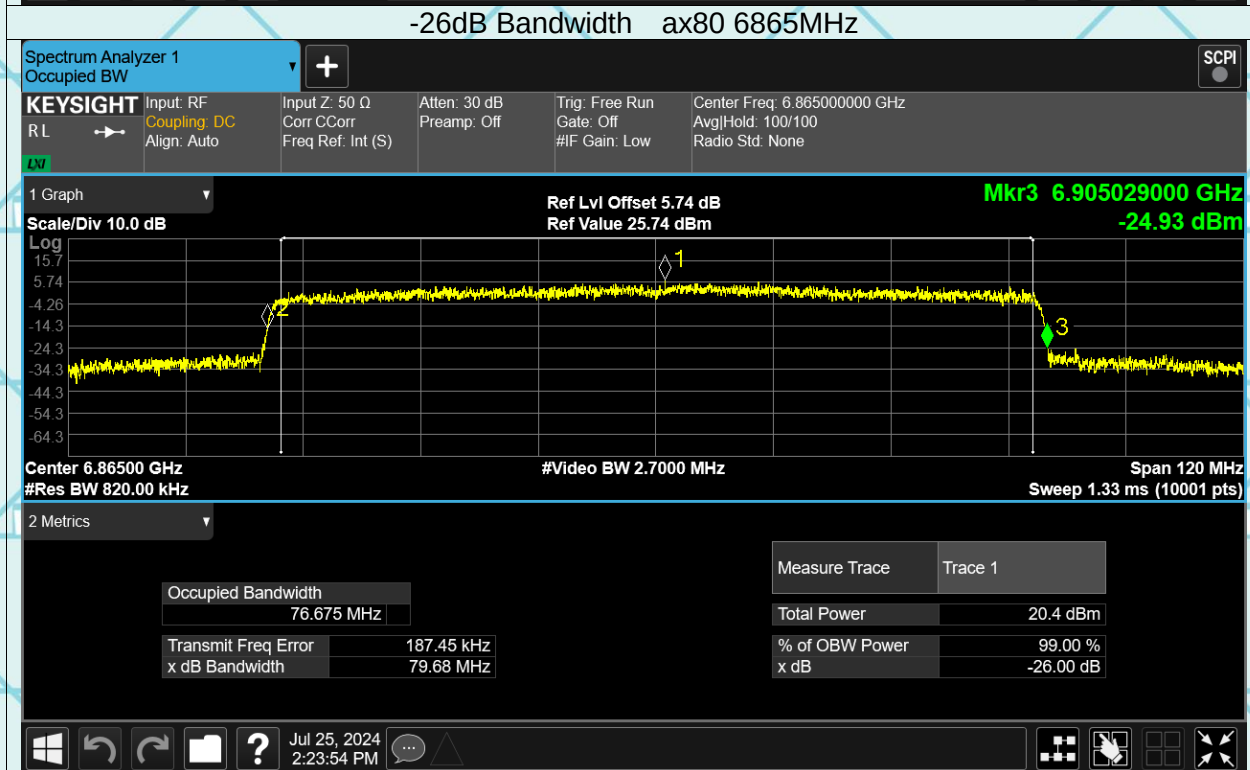
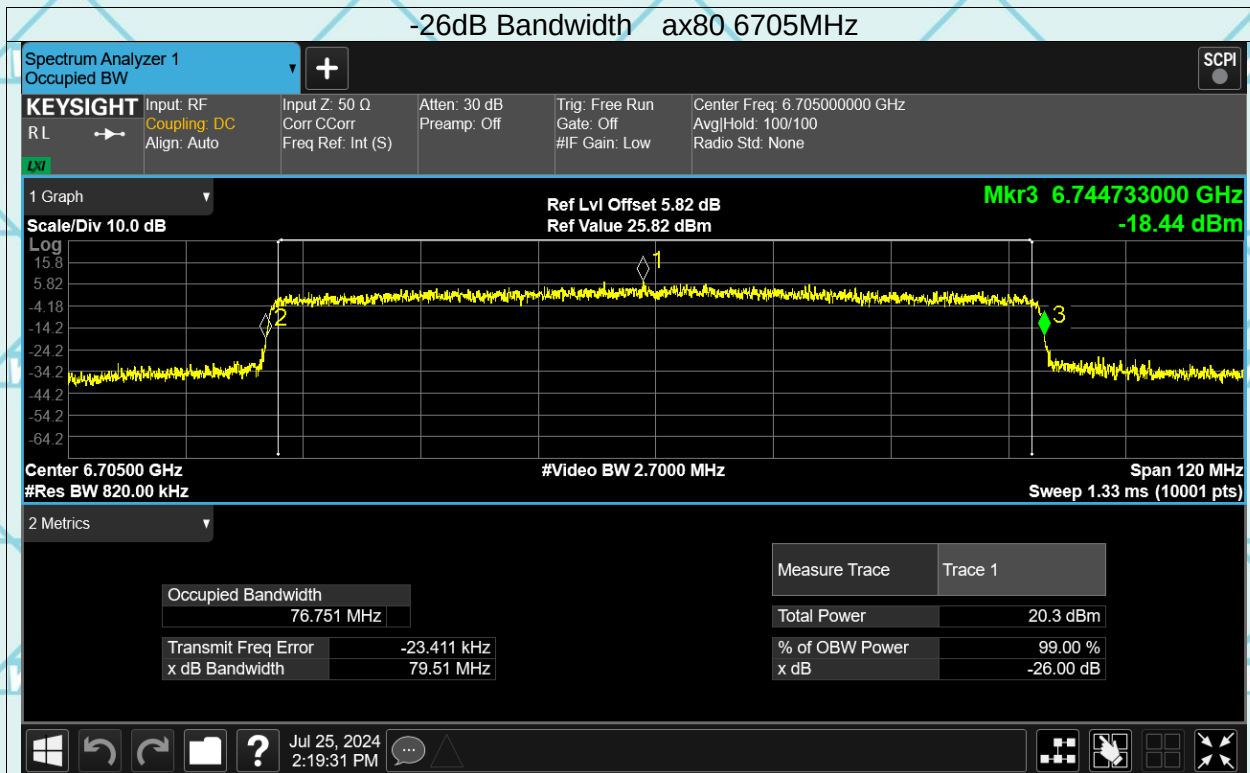
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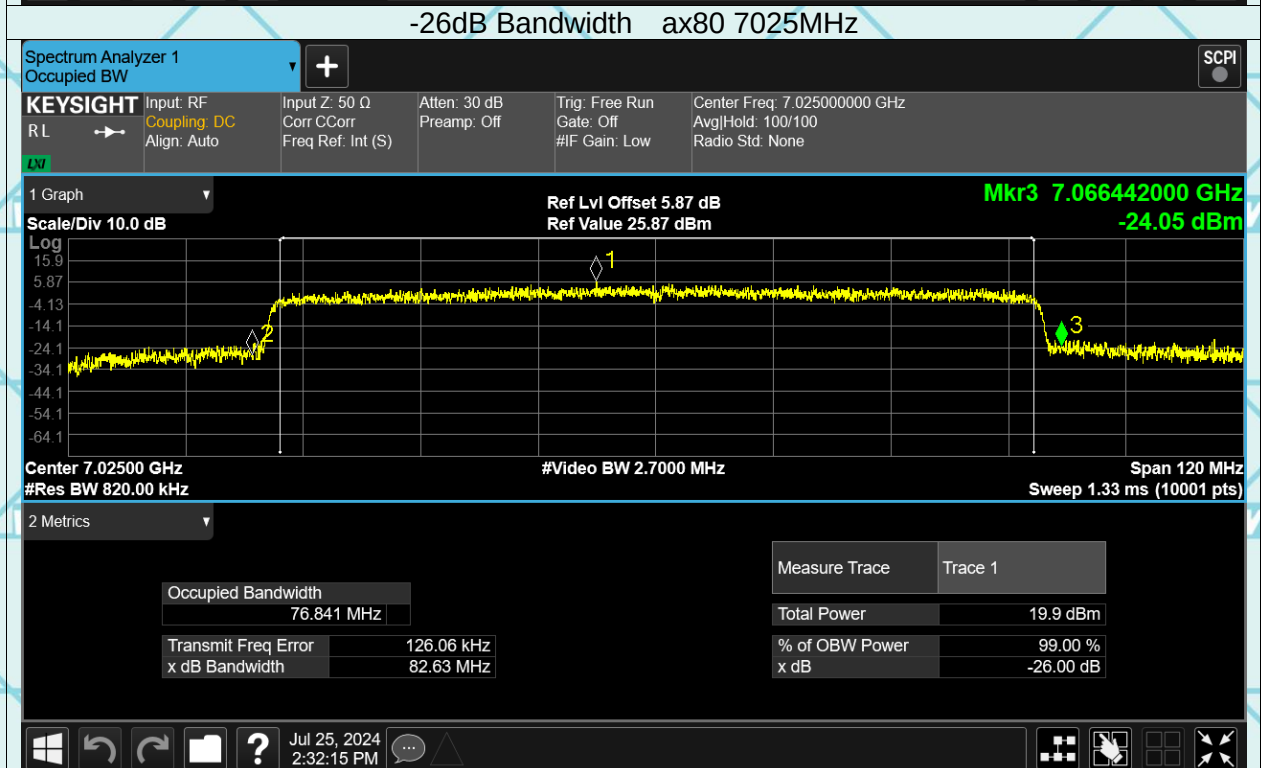
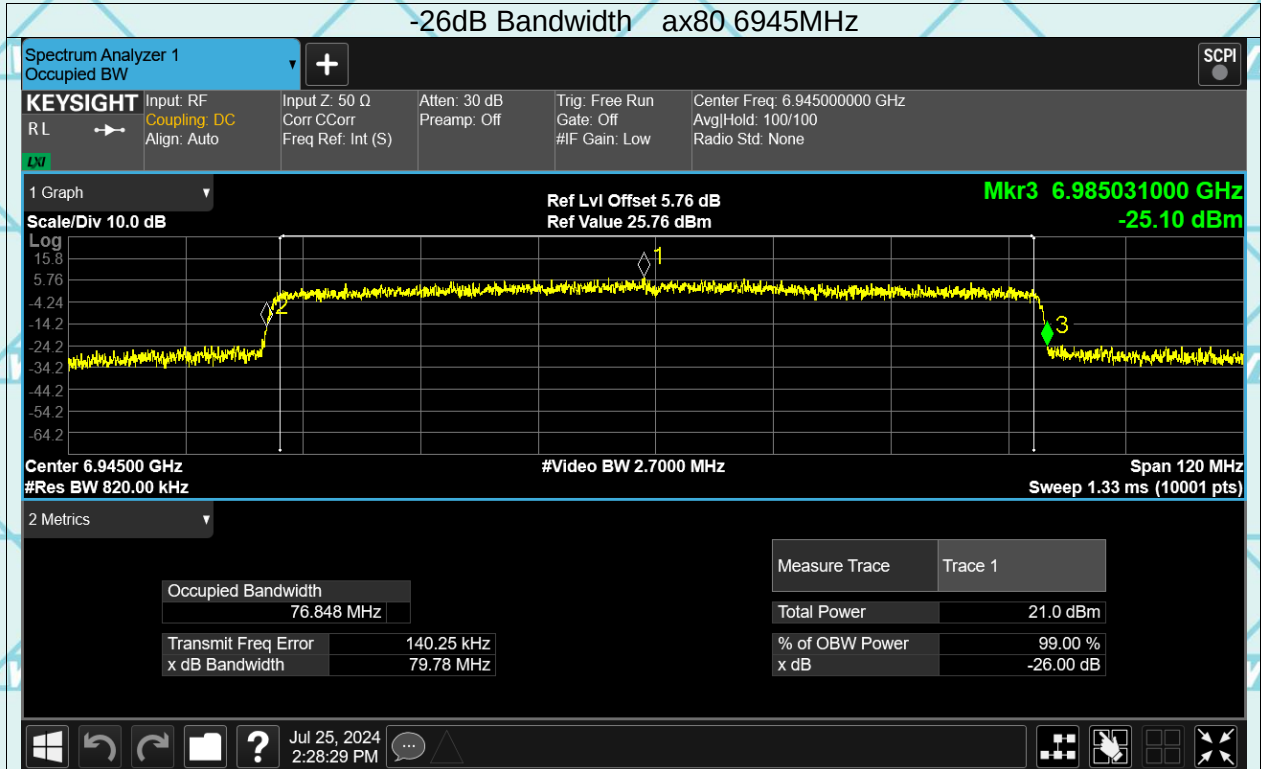
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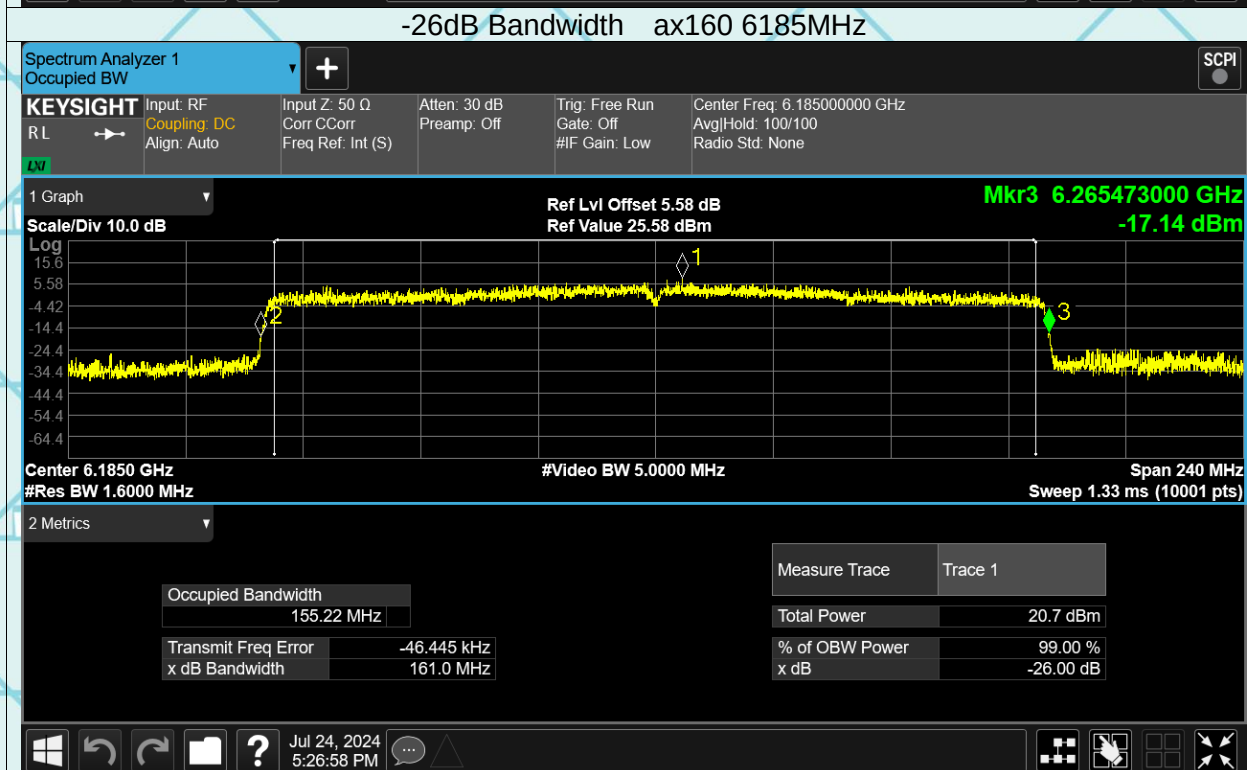
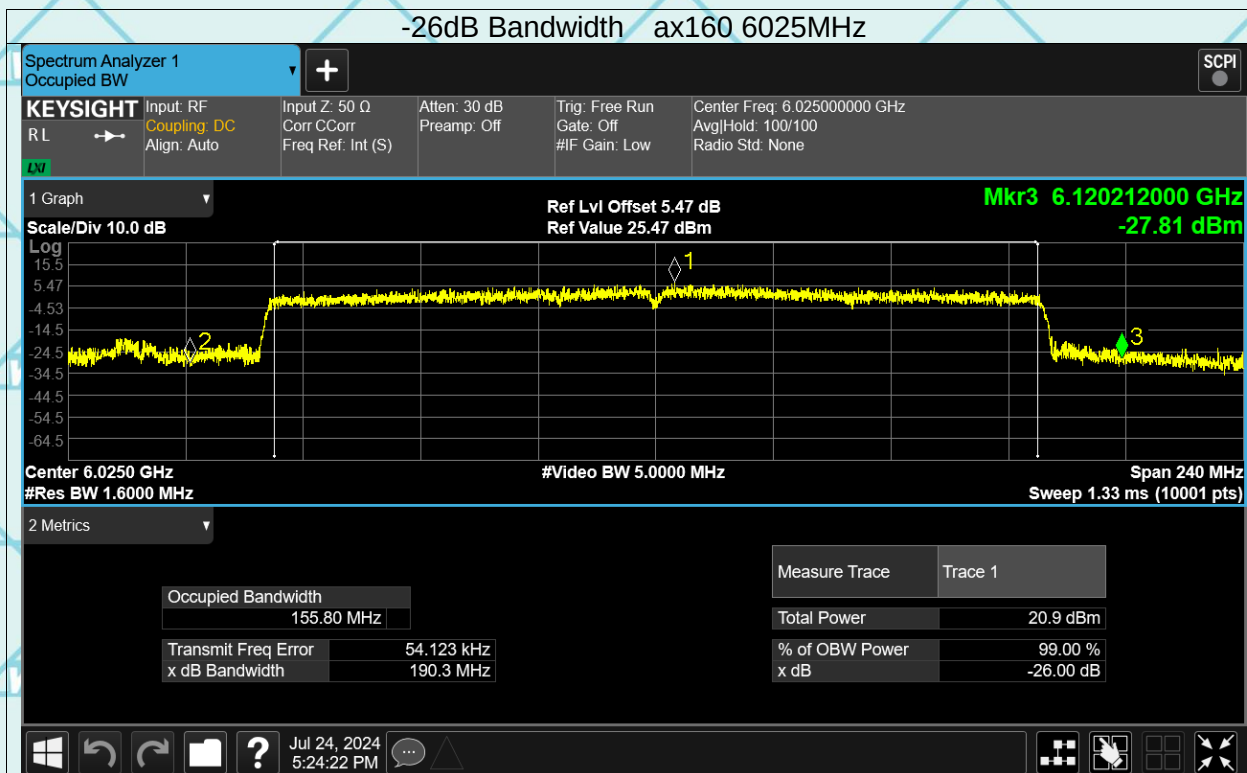
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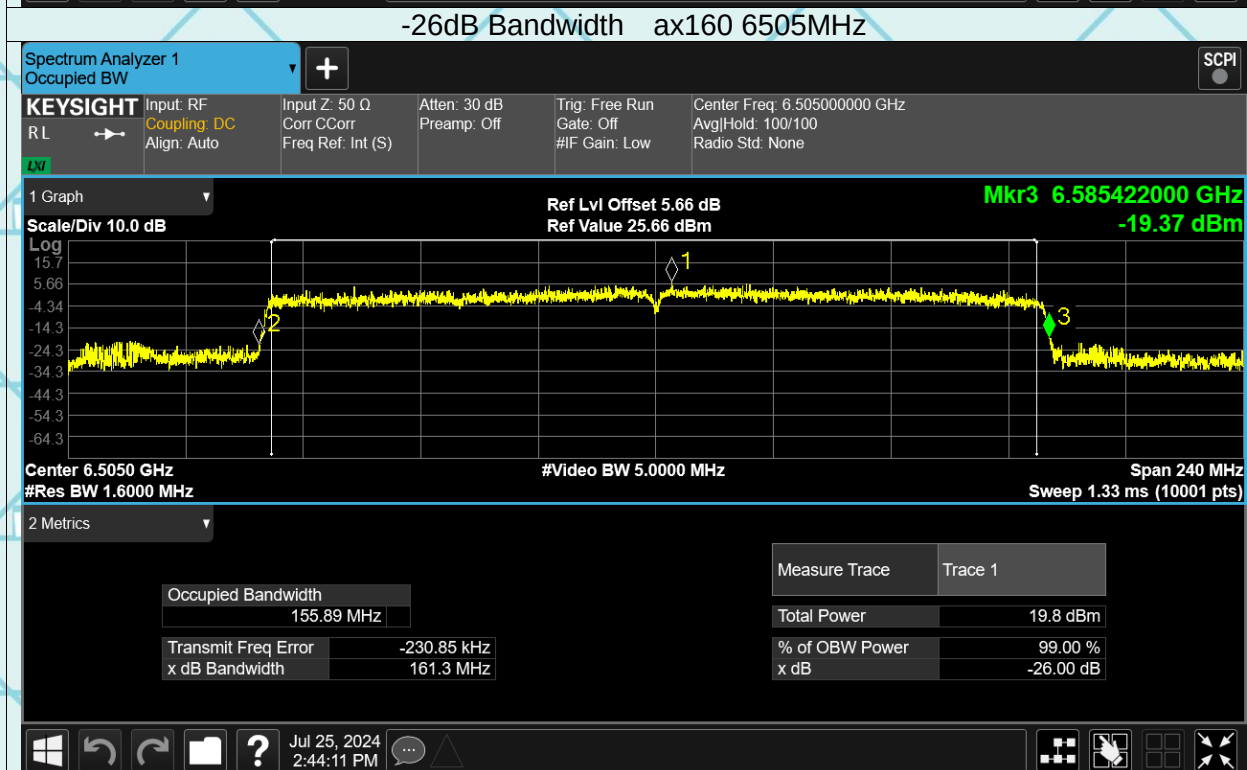
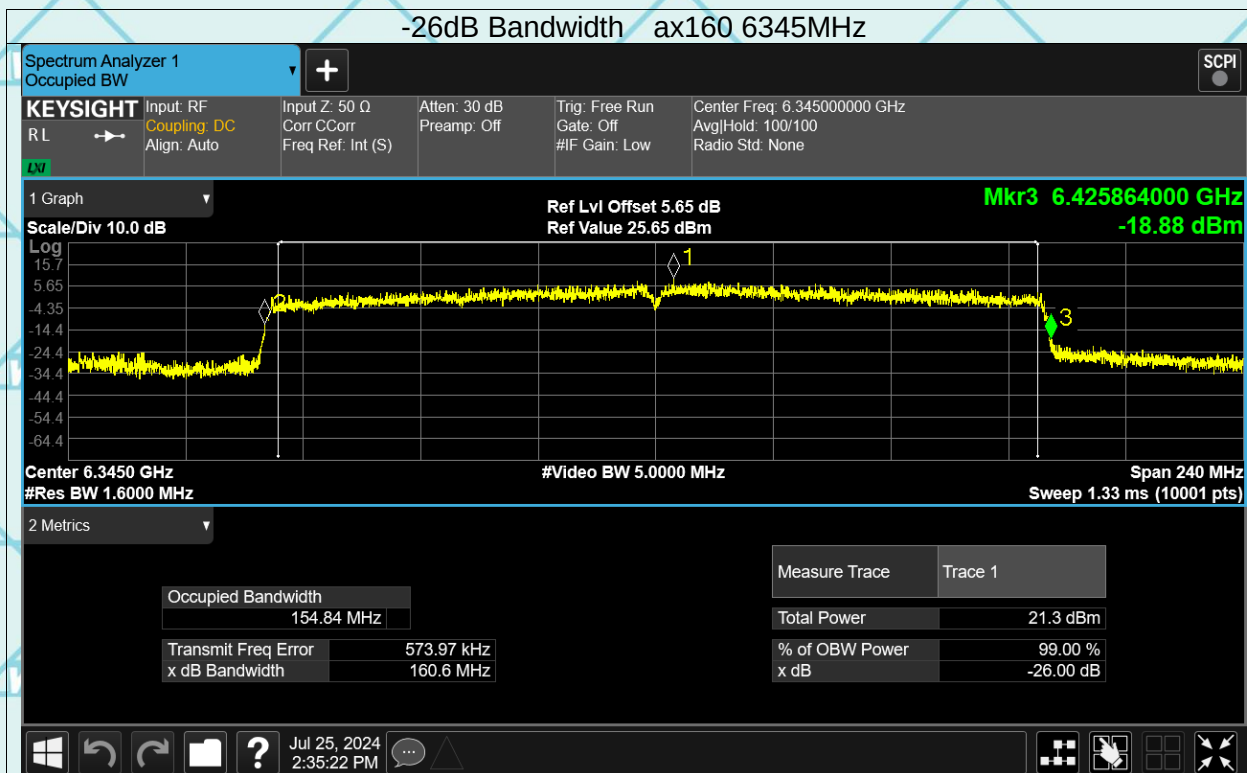
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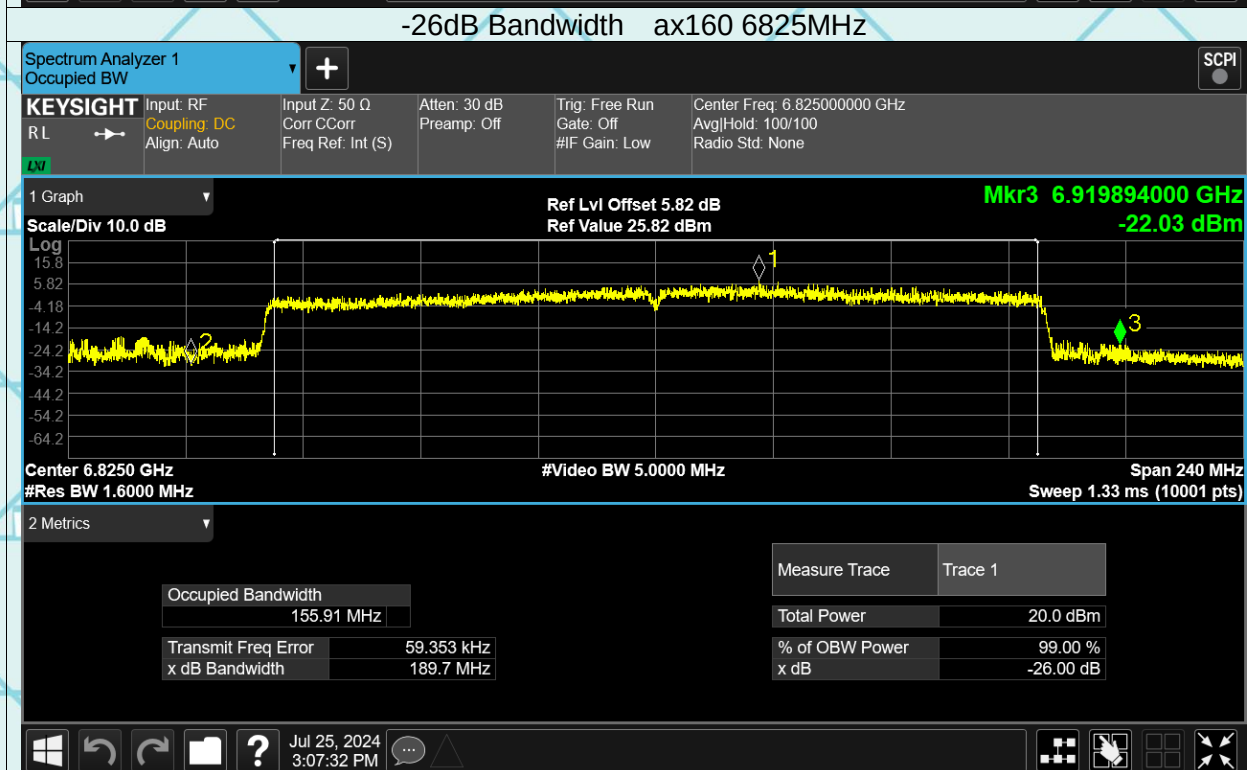
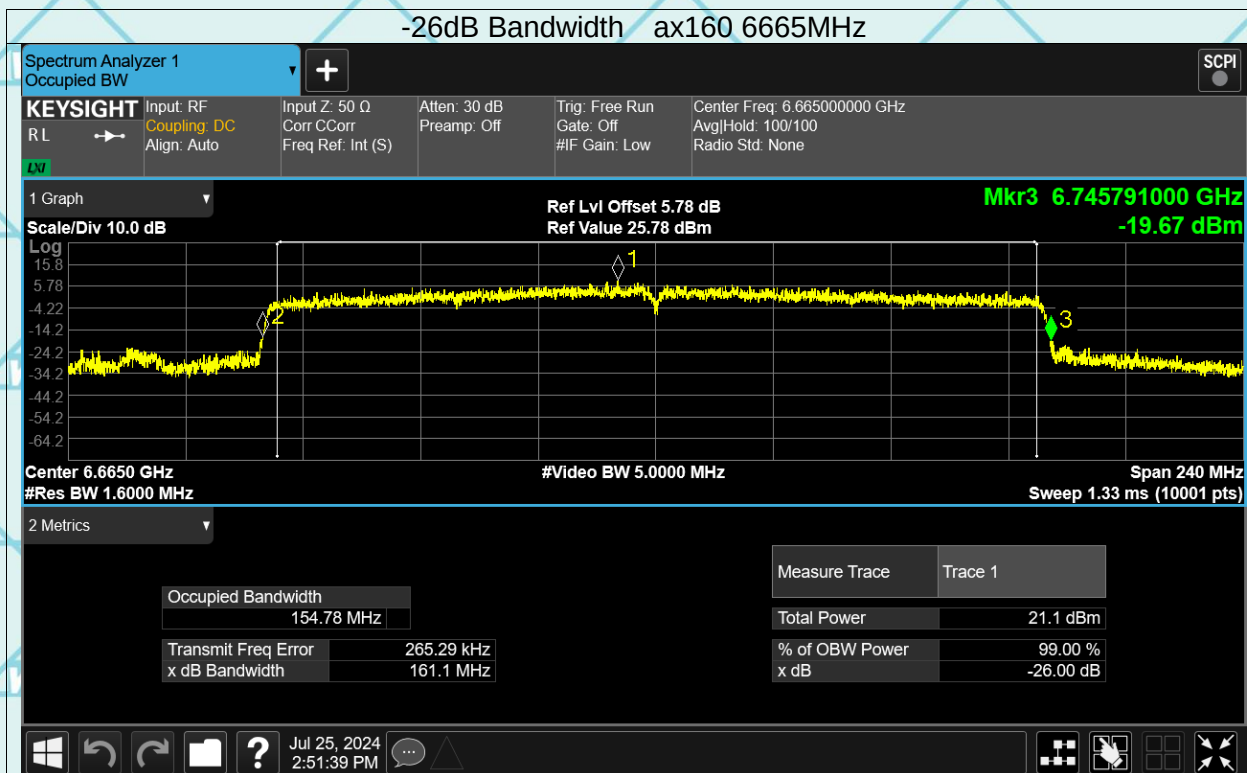
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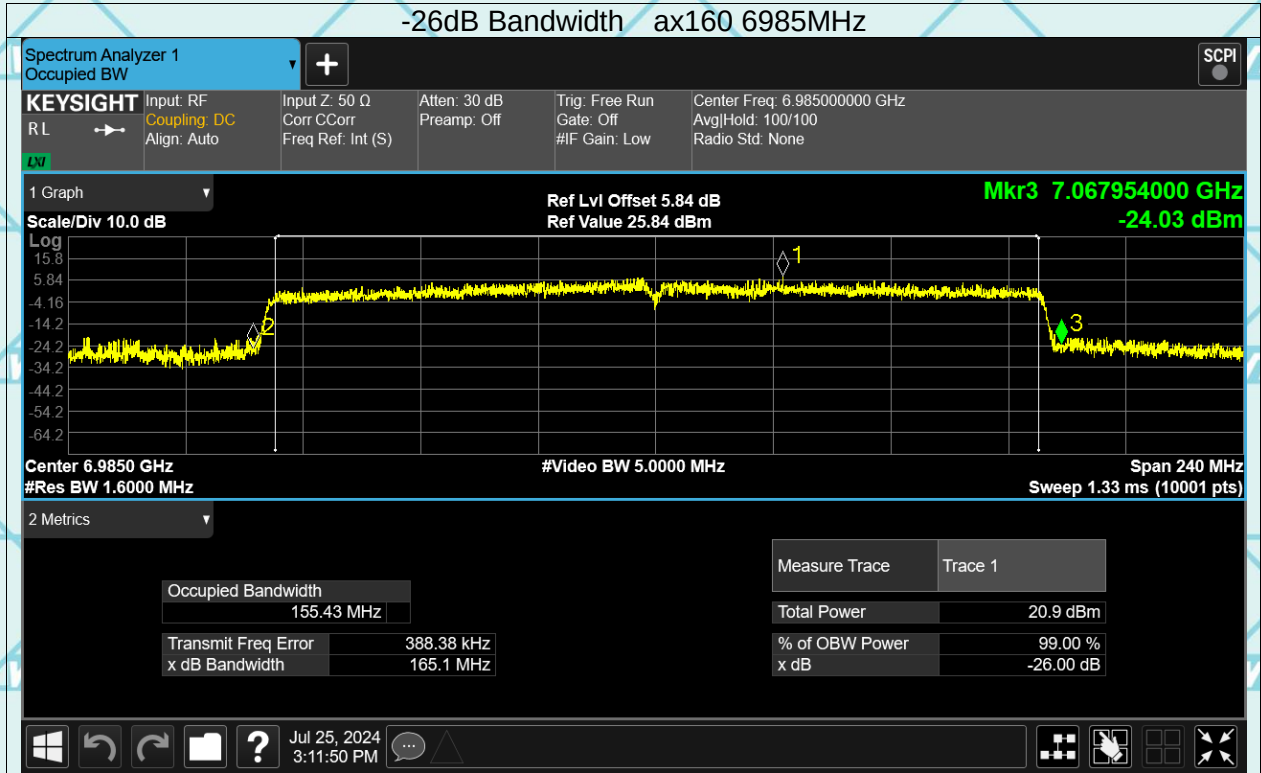
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7.6 MAXIMUM CONDUCTED OUTPUT POWER AND FUNDAMENTAL MAXIMUM EIRP MEASUREMENT

7.6.1 LIMIT OF FUNDAMENTAL MAXIMUM EIRP

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

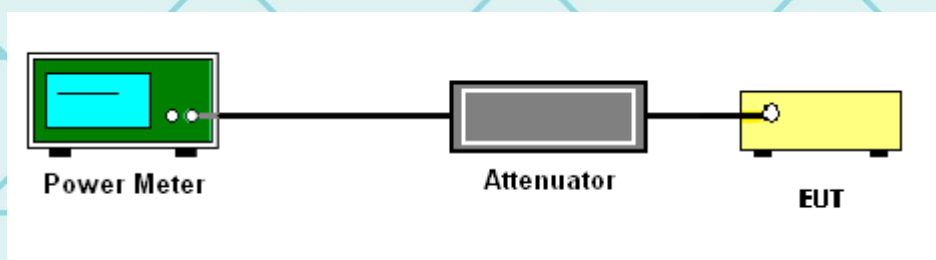
7.6.2 TEST PROCEDURES

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

7.6.3 TEST PROCEDURES



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Test Result of Fundamental Maximum EIRP

ANT1

Mode	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	eirp Power	Limit (dBm)	Verdict
ax20	5955	9.48	0.65	10.13	24	Pass
ax20	6175	9.02	0.65	9.67	24	Pass
ax20	6415	9.71	0.65	10.36	24	Pass
ax20	6435	10.17	0.65	10.82	24	Pass
ax20	6475	8.13	0.65	8.78	24	Pass
ax20	6515	8.15	0.65	8.80	24	Pass
ax20	6535	8.81	0.65	9.46	24	Pass
ax20	6695	9.21	0.65	9.86	24	Pass
ax20	6875	8.63	0.65	9.28	24	Pass
ax20	6895	8.93	0.65	9.58	24	Pass
ax20	6995	8.17	0.65	8.82	24	Pass
ax20	7095	9.7	0.65	10.35	24	Pass
ax40	5965	9.44	0.65	10.09	24	Pass
ax40	6165	9.38	0.65	10.03	24	Pass
ax40	6405	10.61	0.65	11.26	24	Pass
ax40	6445	9.86	0.65	10.51	24	Pass
ax40	6485	8.4	0.65	9.05	24	Pass
ax40	6525	9.16	0.65	9.81	24	Pass
ax40	6565	9.93	0.65	10.58	24	Pass
ax40	6685	9.42	0.65	10.07	24	Pass
ax40	6845	9.51	0.65	10.16	24	Pass
ax40	6885	9.28	0.65	9.93	24	Pass
ax40	6965	10	0.65	10.65	24	Pass
ax40	7085	10.78	0.65	11.43	24	Pass
ax80	5985	11.29	0.65	11.94	24	Pass
ax80	6145	8.98	0.65	9.63	24	Pass
ax80	6385	9.18	0.65	9.83	24	Pass
ax80	6465	8.28	0.65	8.93	24	Pass
ax80	6545	8.03	0.65	8.68	24	Pass
ax80	6625	10.23	0.65	10.88	24	Pass
ax80	6705	8.85	0.65	9.50	24	Pass
ax80	6865	8.55	0.65	9.20	24	Pass
ax80	6945	9.29	0.65	9.94	24	Pass
ax80	7025	8.41	0.65	9.06	24	Pass
ax160	6025	8.05	0.65	8.70	24	Pass
ax160	6185	8.14	0.65	8.79	24	Pass
ax160	6345	8.37	0.65	9.02	24	Pass
ax160	6505	8.88	0.65	9.53	24	Pass
ax160	6665	8.15	0.65	8.80	24	Pass
ax160	6825	9.2	0.65	9.85	24	Pass
ax160	6985	8.47	0.65	9.12	24	Pass

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ANT2

Mode	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	eirp Power	Limit (dBm)	Verdict
ax20	5955	12.02	0.21	12.23	24	Pass
ax20	6175	10.84	0.21	11.05	24	Pass
ax20	6415	11.54	0.21	11.75	24	Pass
ax20	6435	10.67	0.21	10.88	24	Pass
ax20	6475	10.25	0.21	10.46	24	Pass
ax20	6515	10.45	0.21	10.66	24	Pass
ax20	6535	10.94	0.21	11.15	24	Pass
ax20	6695	11.73	0.21	11.94	24	Pass
ax20	6875	11.61	0.21	11.82	24	Pass
ax20	6895	11.69	0.21	11.90	24	Pass
ax20	6995	11.24	0.21	11.45	24	Pass
ax20	7095	12.00	0.21	12.21	24	Pass
ax40	5965	12.23	0.21	12.44	24	Pass
ax40	6165	12.09	0.21	12.30	24	Pass
ax40	6405	13.25	0.21	13.46	24	Pass
ax40	6445	11.77	0.21	11.98	24	Pass
ax40	6485	10.73	0.21	10.94	24	Pass
ax40	6525	11.38	0.21	11.59	24	Pass
ax40	6565	11.71	0.21	11.92	24	Pass
ax40	6685	11.90	0.21	12.11	24	Pass
ax40	6845	11.67	0.21	11.88	24	Pass
ax40	6885	12.11	0.21	12.32	24	Pass
ax40	6965	11.66	0.21	11.87	24	Pass
ax40	7085	12.87	0.21	13.08	24	Pass
ax80	5985	11.88	0.21	12.09	24	Pass
ax80	6145	11.88	0.21	12.09	24	Pass
ax80	6385	12.76	0.21	12.97	24	Pass
ax80	6465	11.03	0.21	11.24	24	Pass
ax80	6545	11.16	0.21	11.37	24	Pass
ax80	6625	12.28	0.21	12.49	24	Pass
ax80	6705	11.47	0.21	11.68	24	Pass
ax80	6865	11.65	0.21	11.86	24	Pass
ax80	6945	11.16	0.21	11.37	24	Pass
ax80	7025	11.38	0.21	11.59	24	Pass
ax160	6025	11.10	0.21	11.31	24	Pass
ax160	6185	11.16	0.21	11.37	24	Pass
ax160	6345	12.37	0.21	12.58	24	Pass
ax160	6505	10.24	0.21	10.45	24	Pass
ax160	6665	11.83	0.21	12.04	24	Pass
ax160	6825	10.93	0.21	11.14	24	Pass
ax160	6985	11.26	0.21	11.47	24	Pass

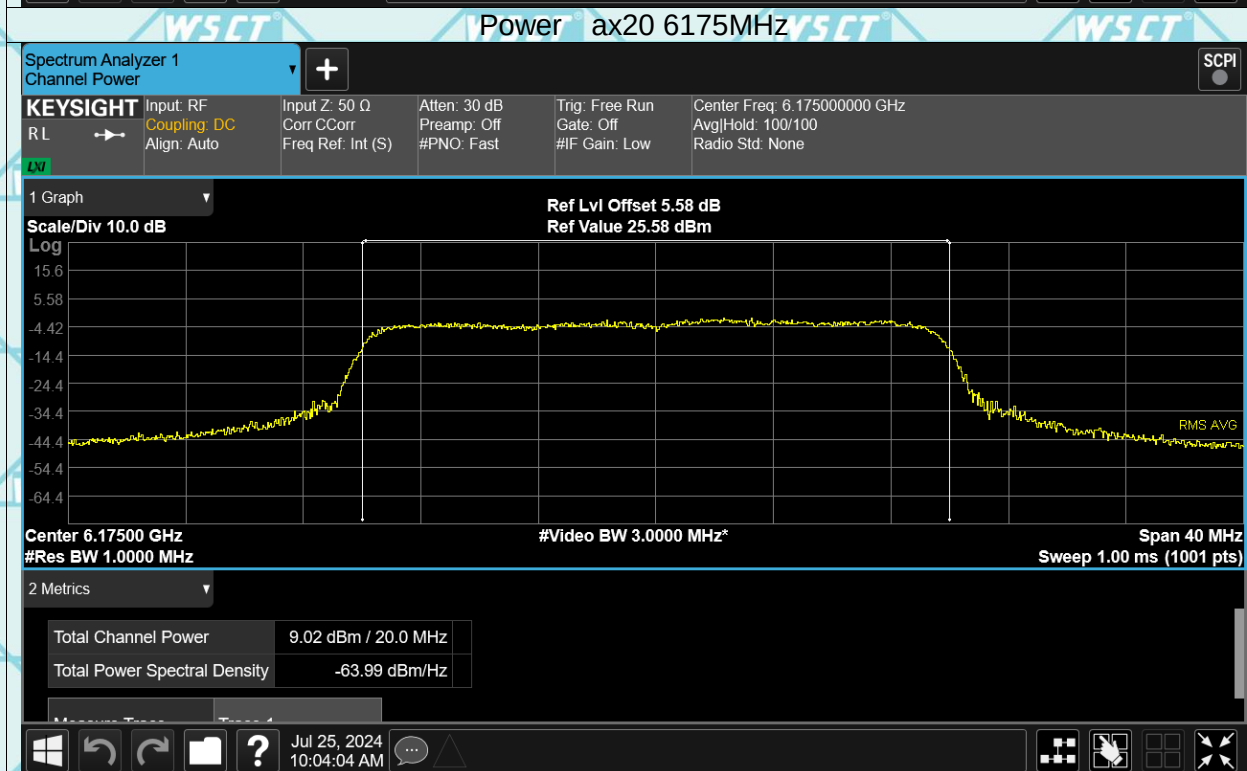
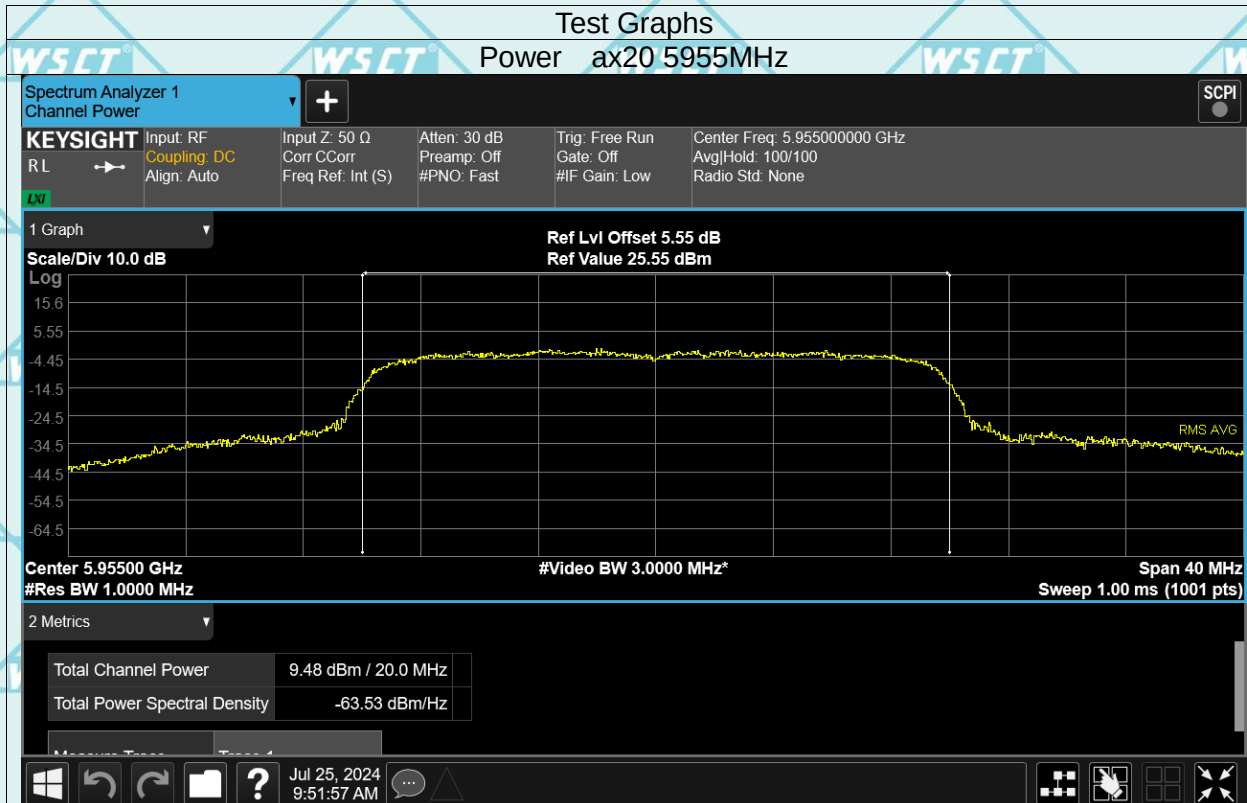
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MIMO mode

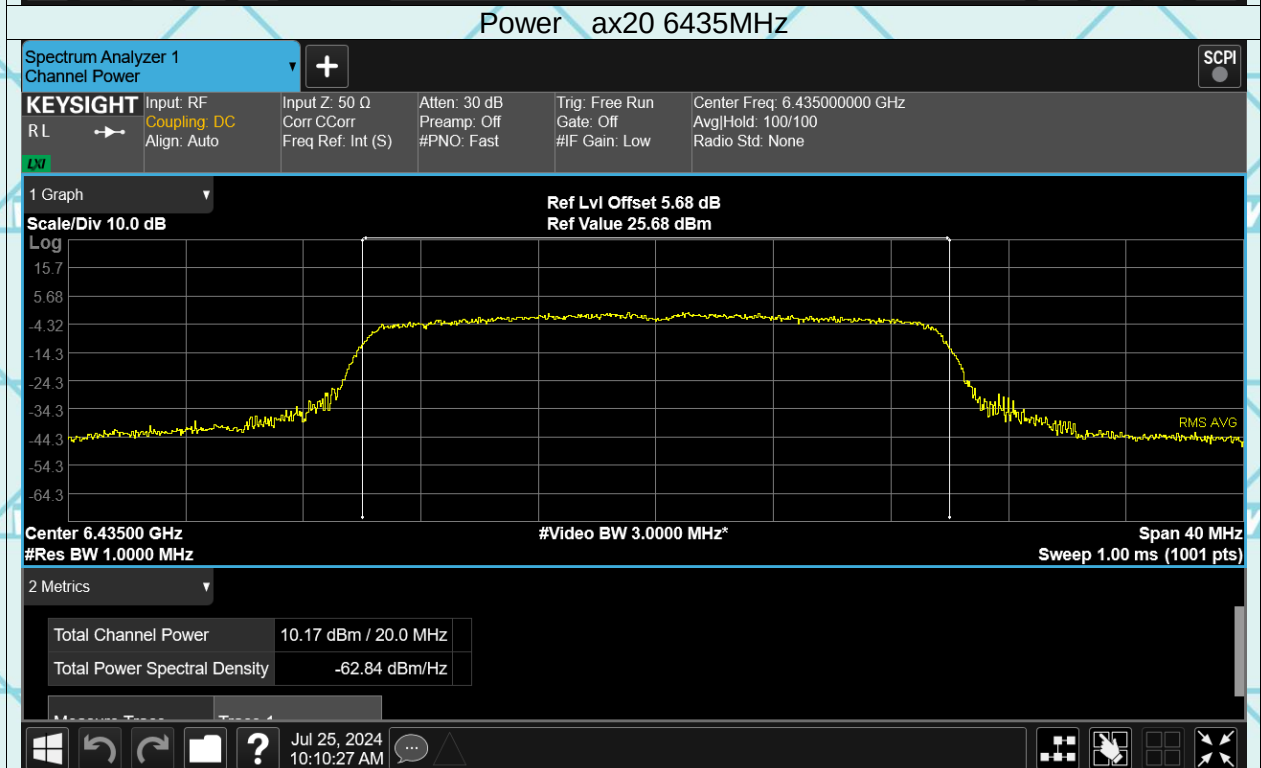
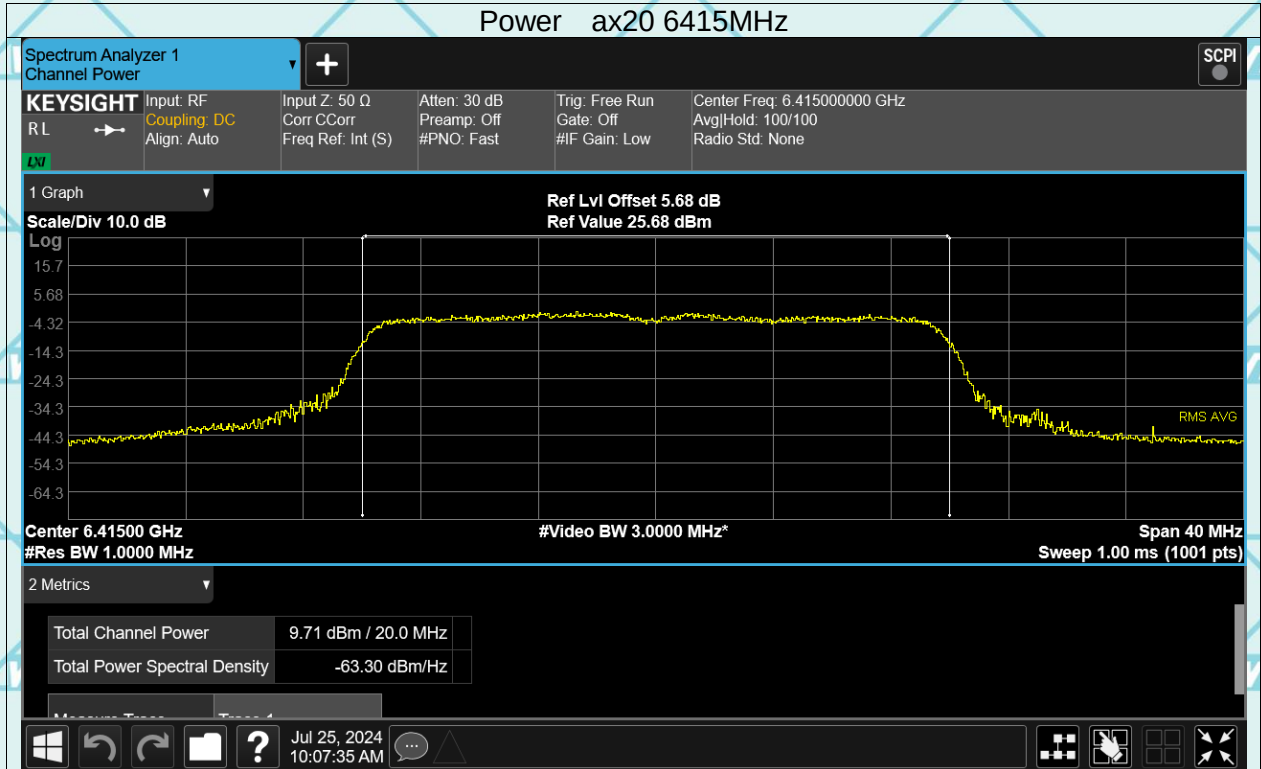
Mode	Frequency (MHz)	Conducted Power (dBm)	eirp Power	Limit (dBm)	Verdict
ax20	5955	13.94	14.32	24	Pass
ax20	6175	13.03	13.42	24	Pass
ax20	6415	13.73	14.12	24	Pass
ax20	6435	13.44	13.86	24	Pass
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ax40	6165	13.95	14.32	24	Pass
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ax40	6885	13.93	14.30	24	Pass
ax40	6965	13.92	14.31	24	Pass
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ax80	6545	12.88	13.24	24	Pass
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ax80	6865	13.38	13.74	24	Pass
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ax80	7025	13.15	13.52	24	Pass
ax160	6025	12.85	13.21	24	Pass
ax160	6185	12.92	13.28	24	Pass
ax160	6345	13.83	14.17	24	Pass
ax160	6505	12.62	13.02	24	Pass
ax160	6665	13.38	13.73	24	Pass
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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi3

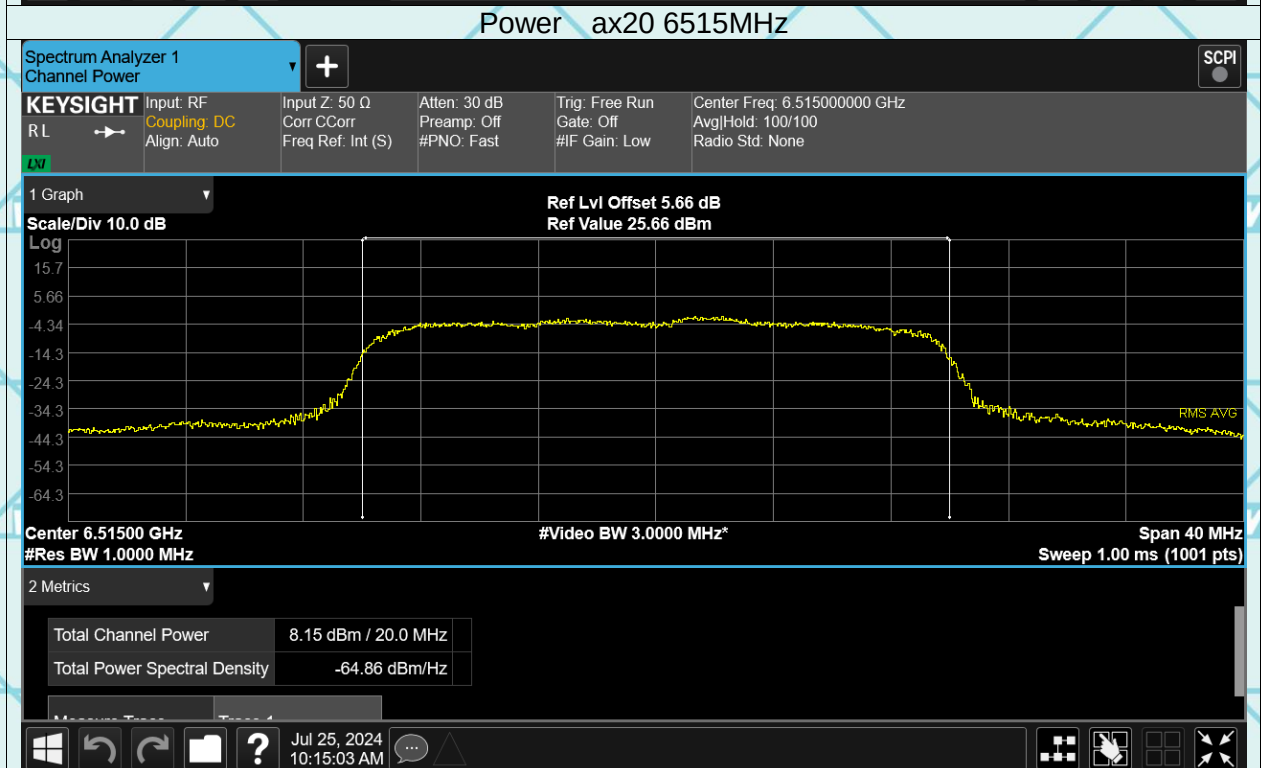
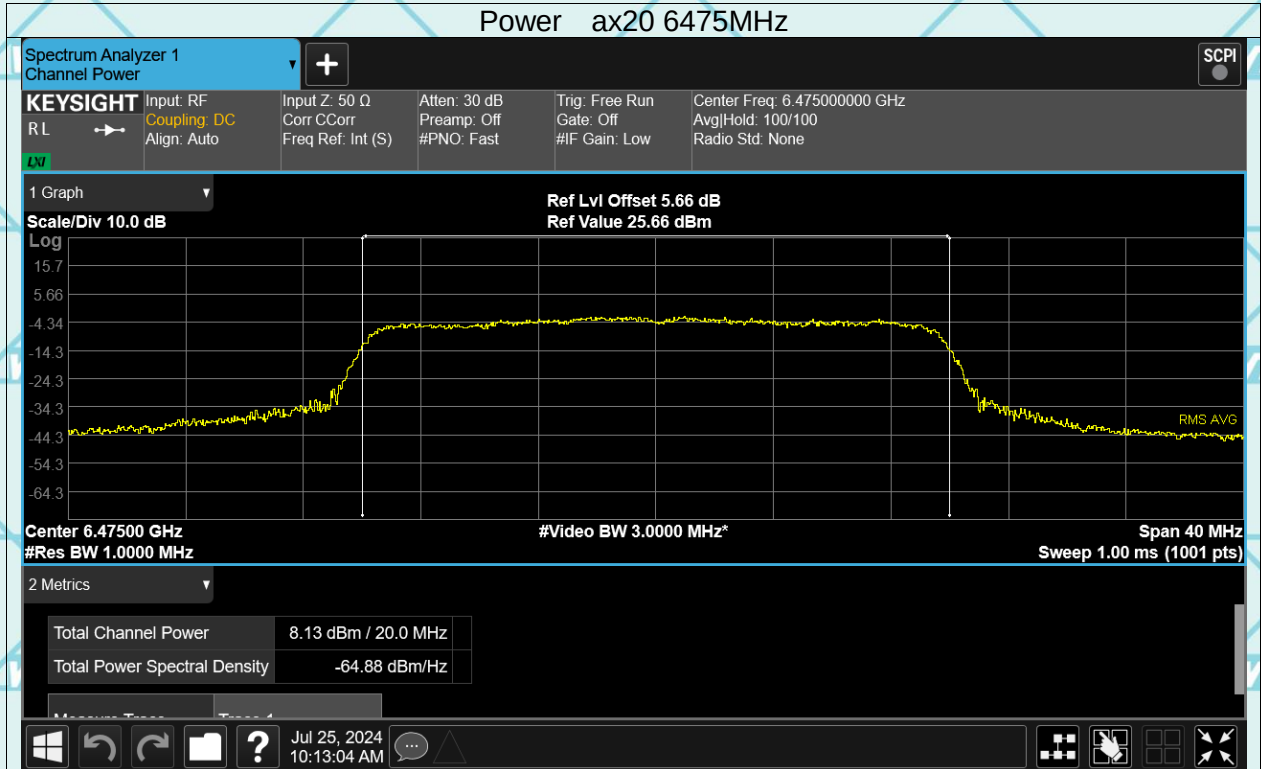
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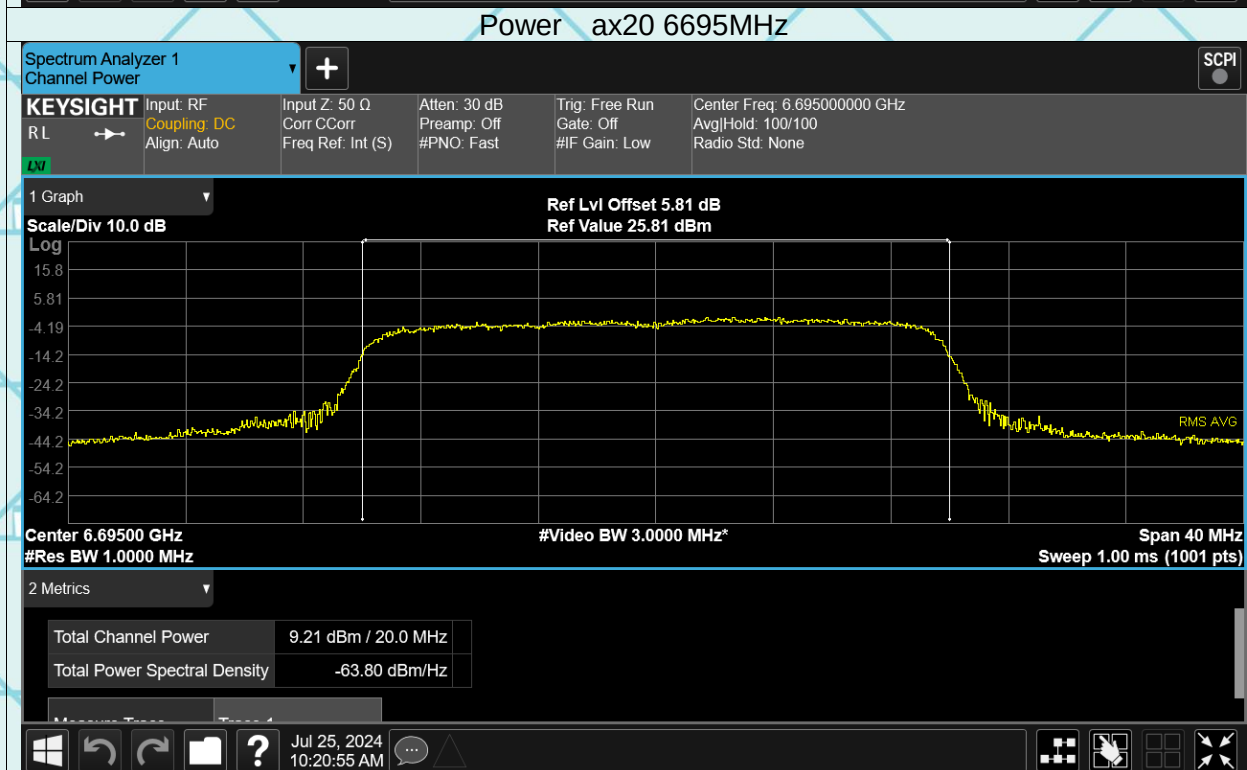
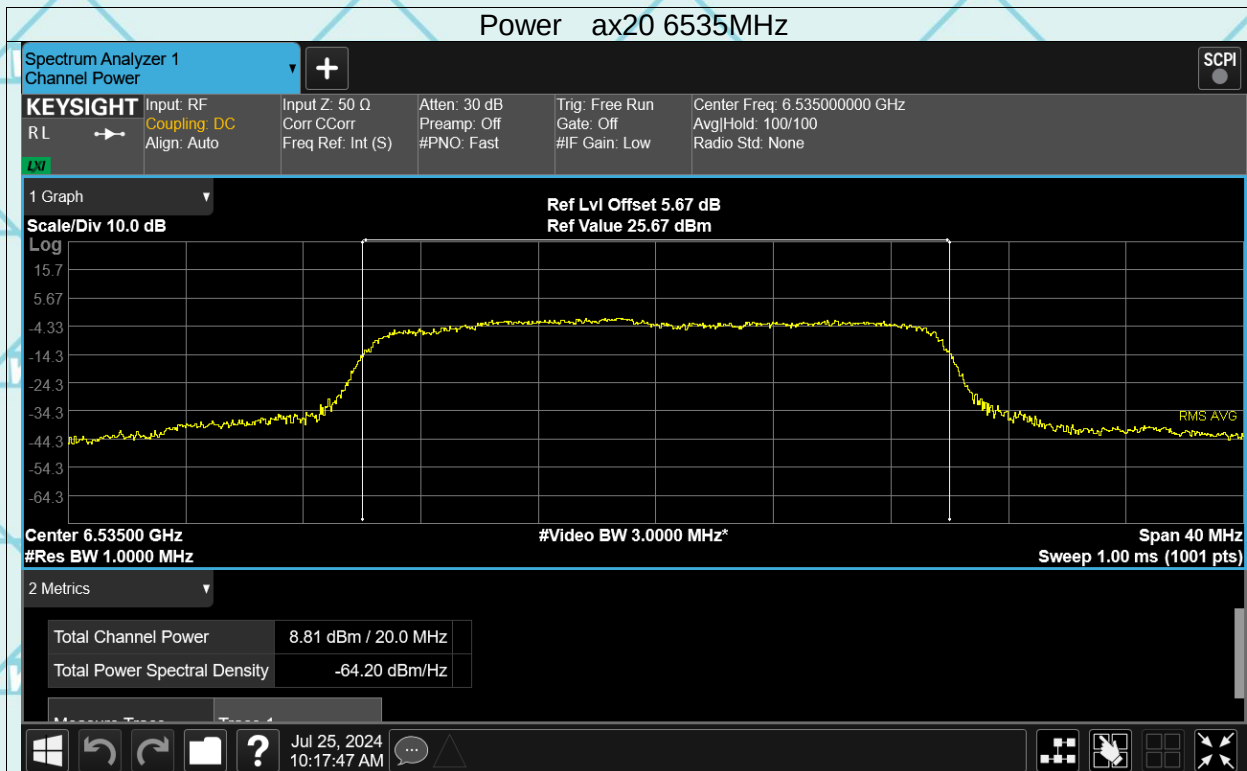
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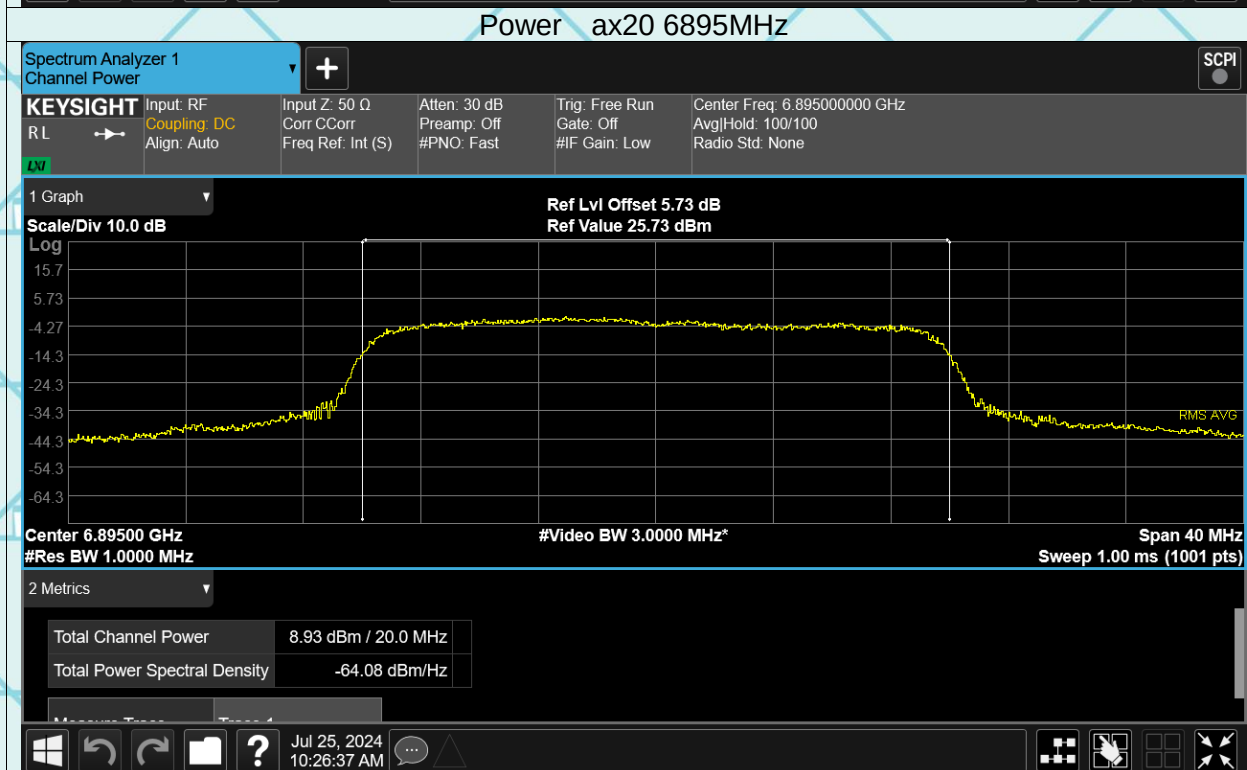
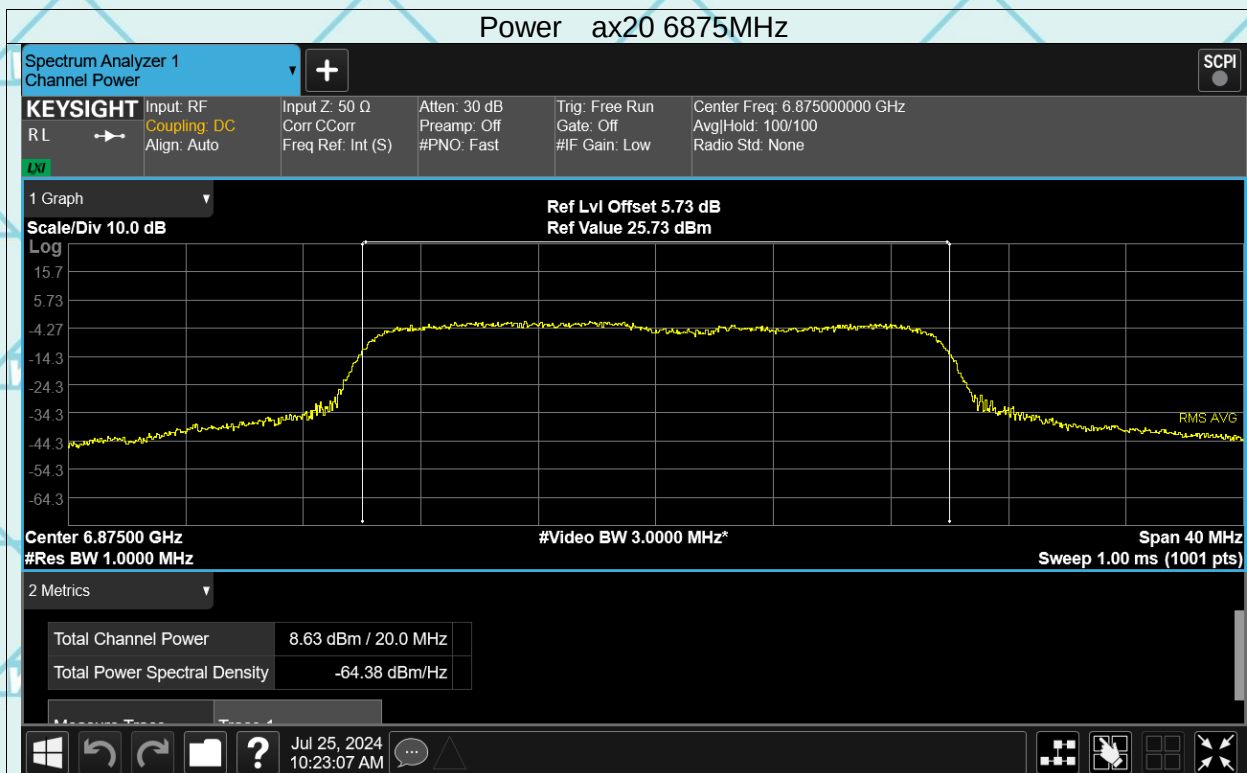
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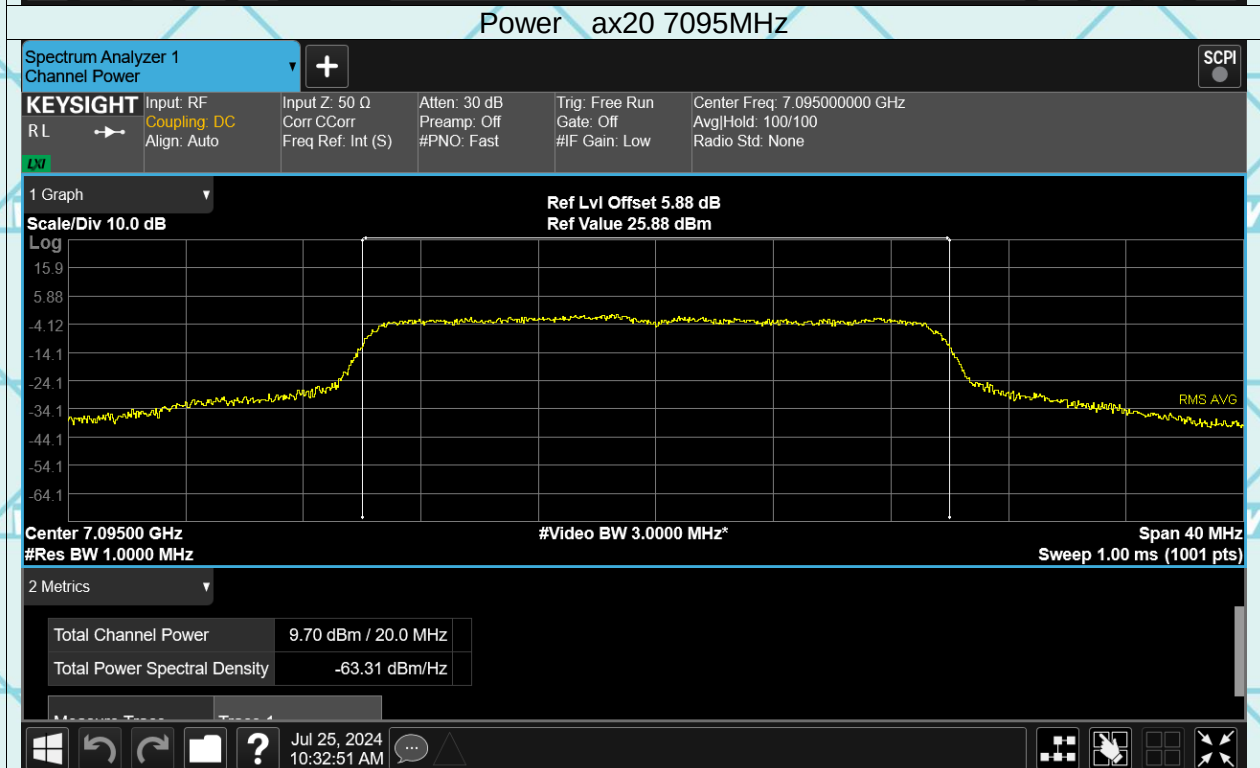
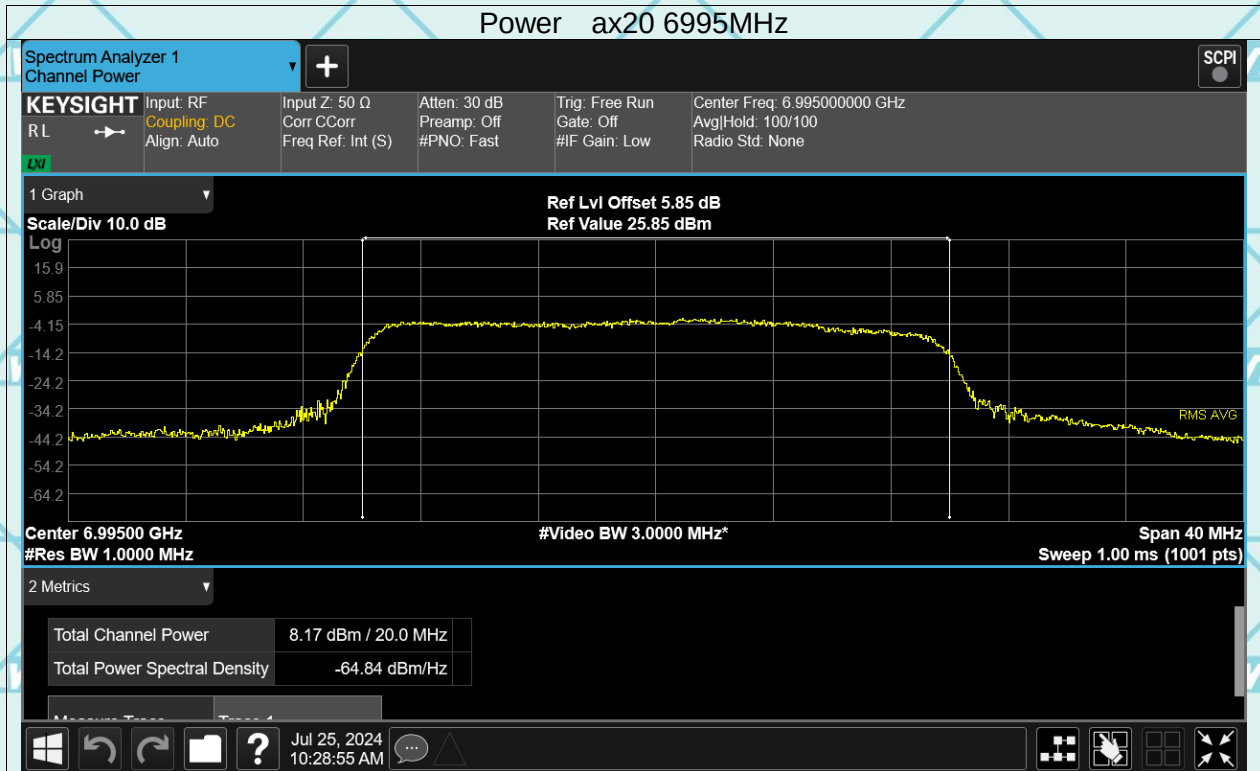
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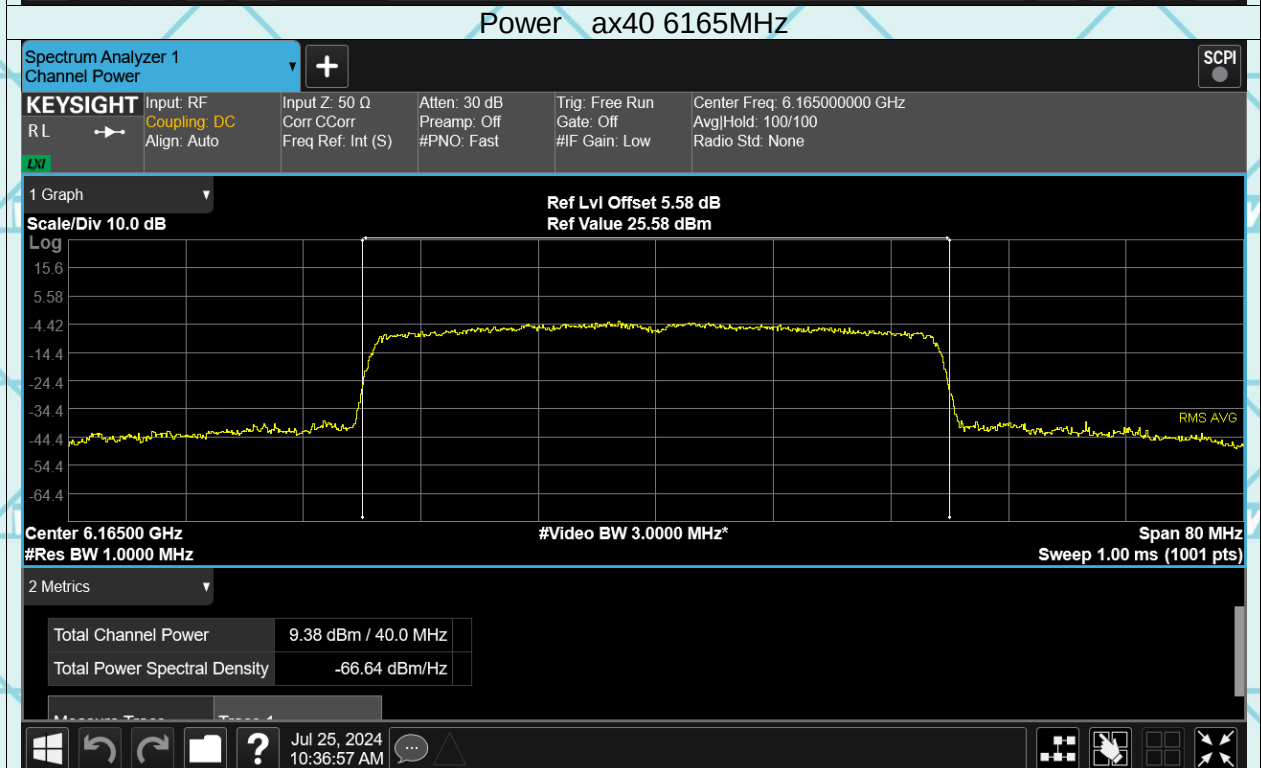
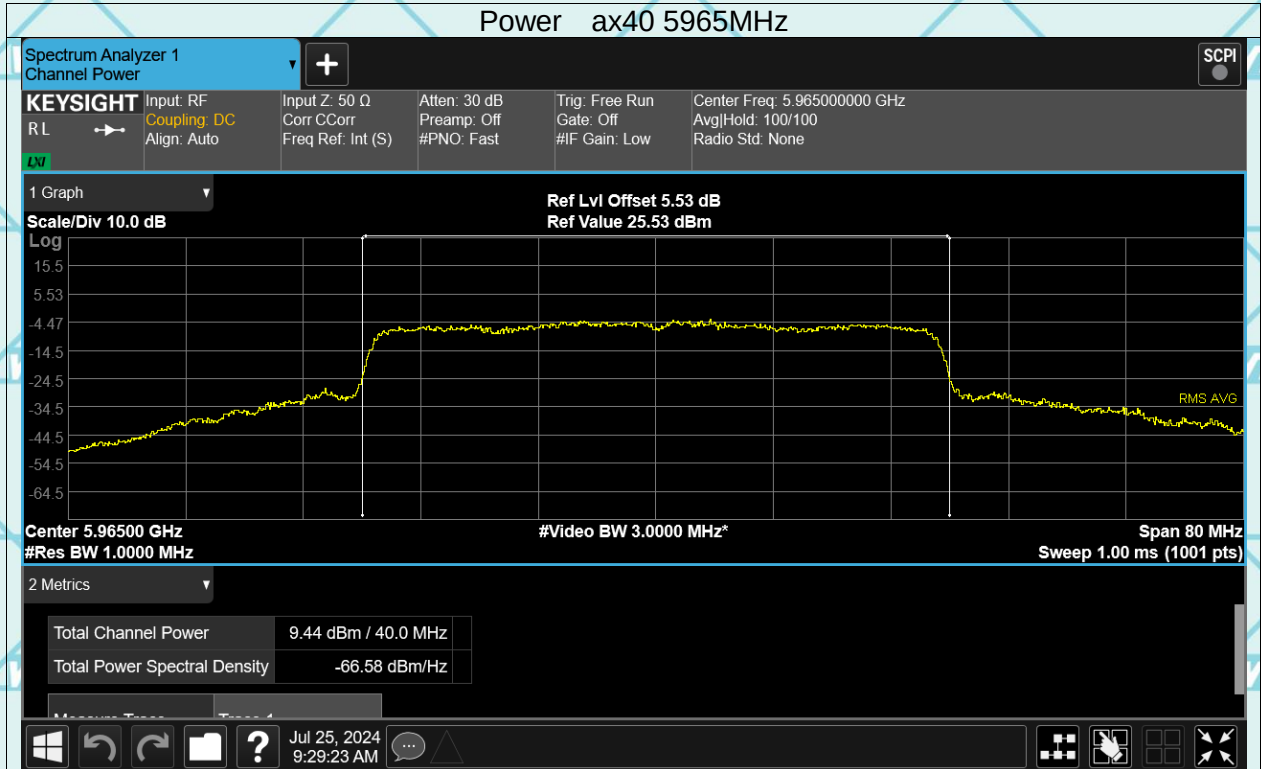
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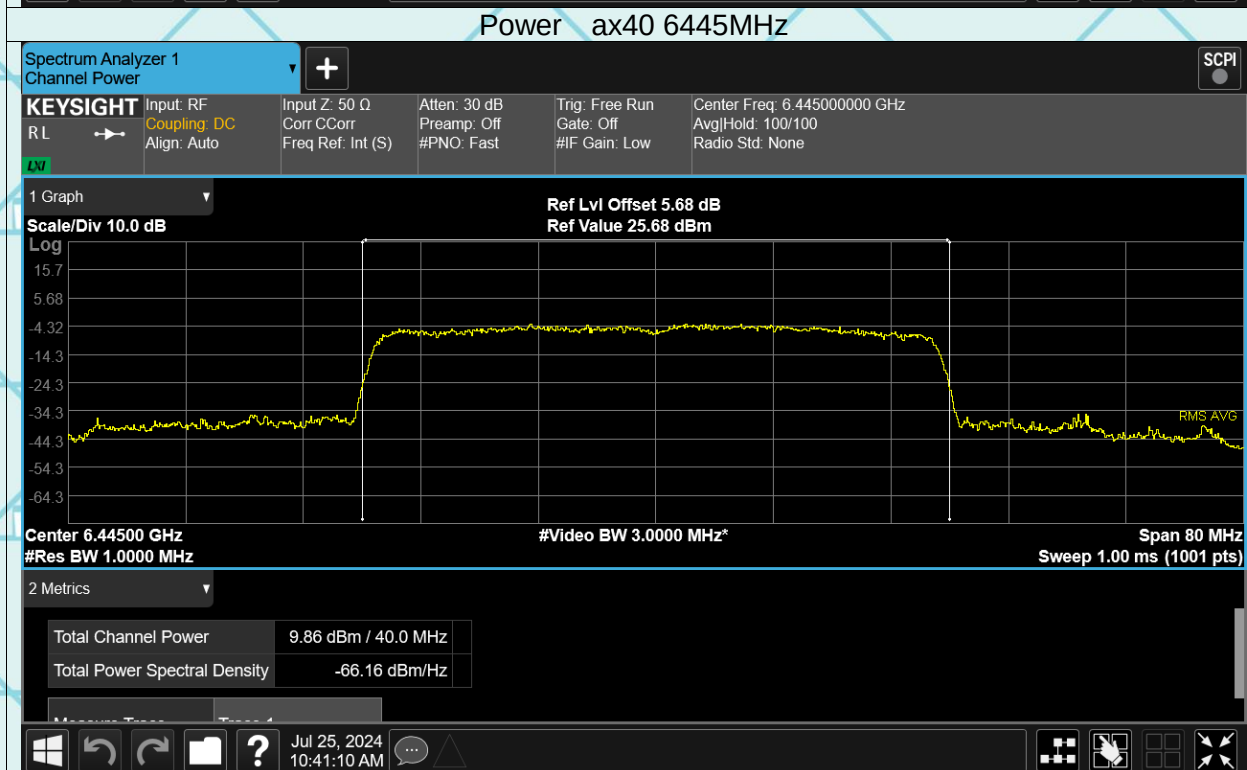
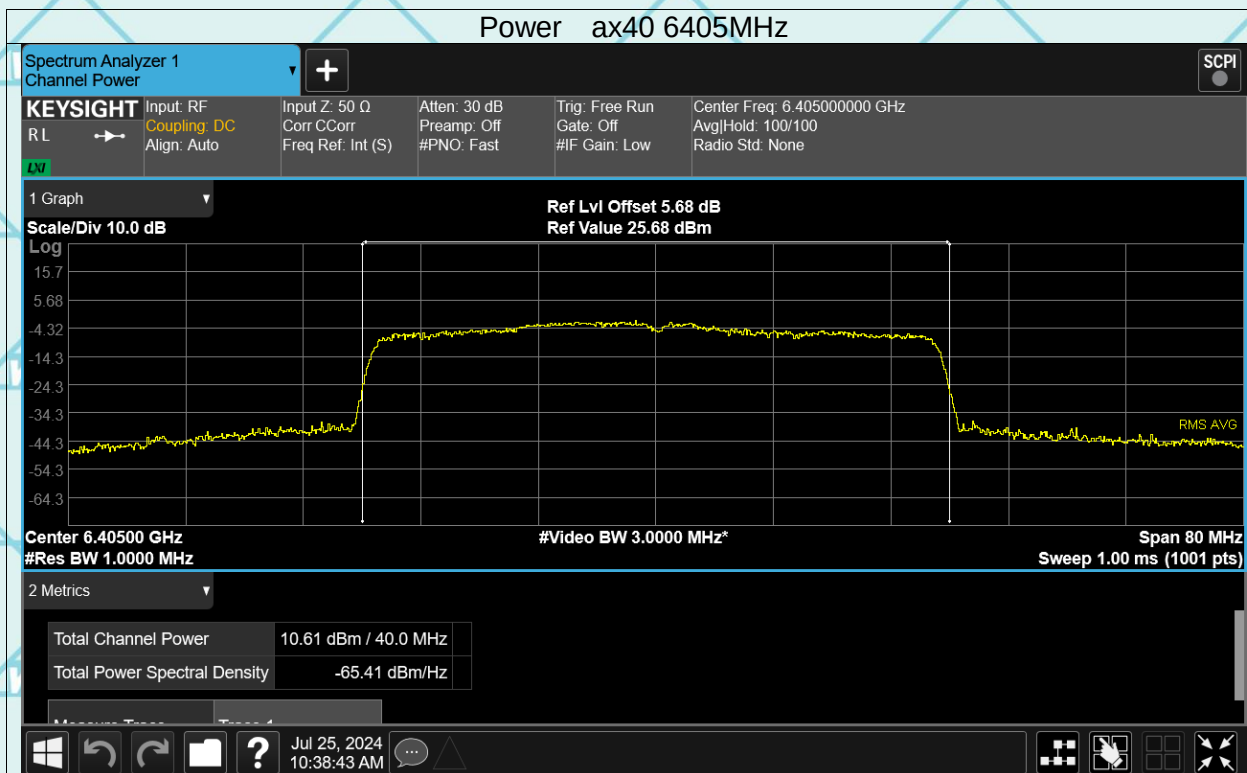
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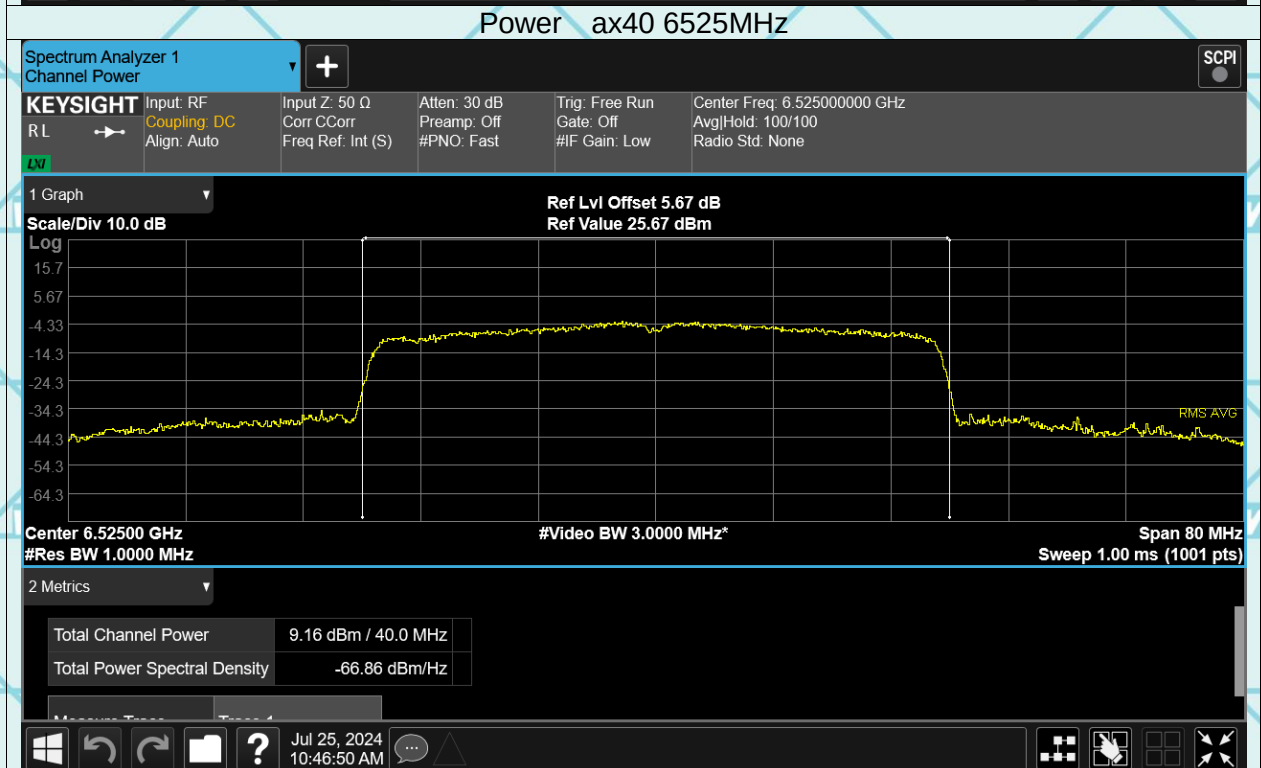
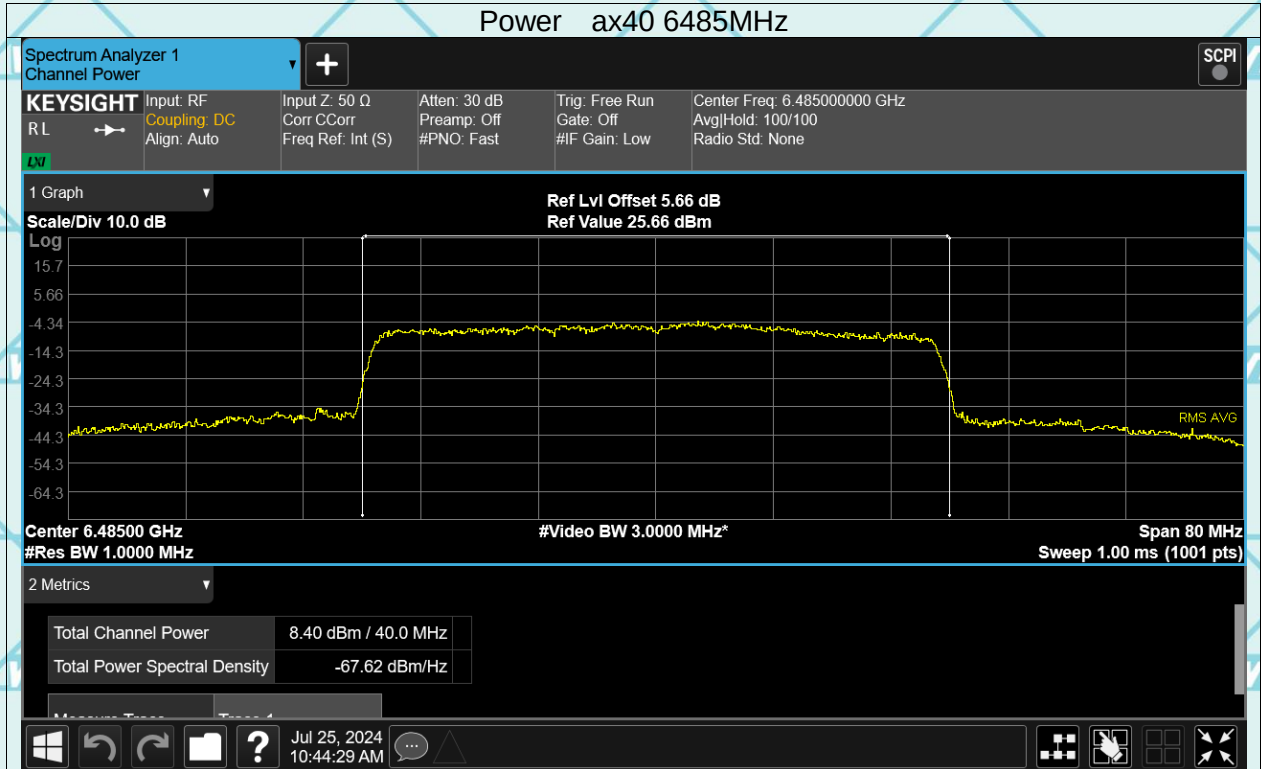
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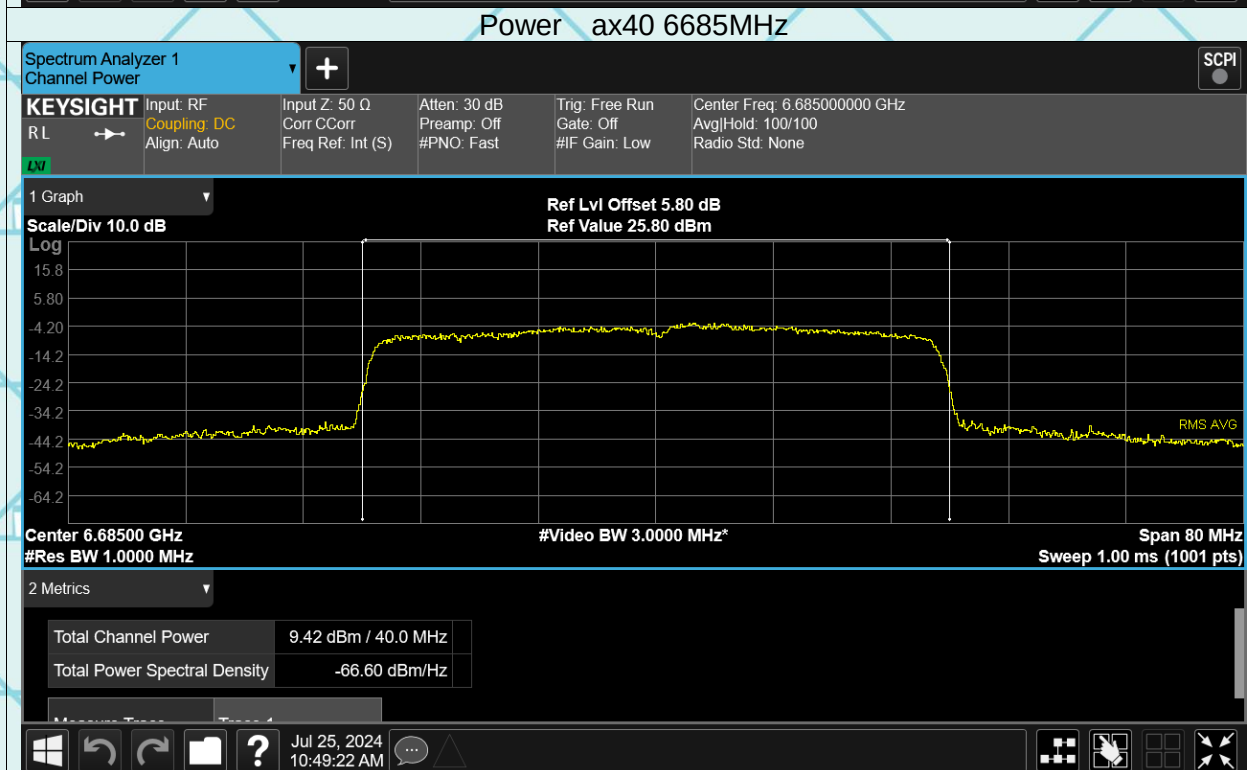
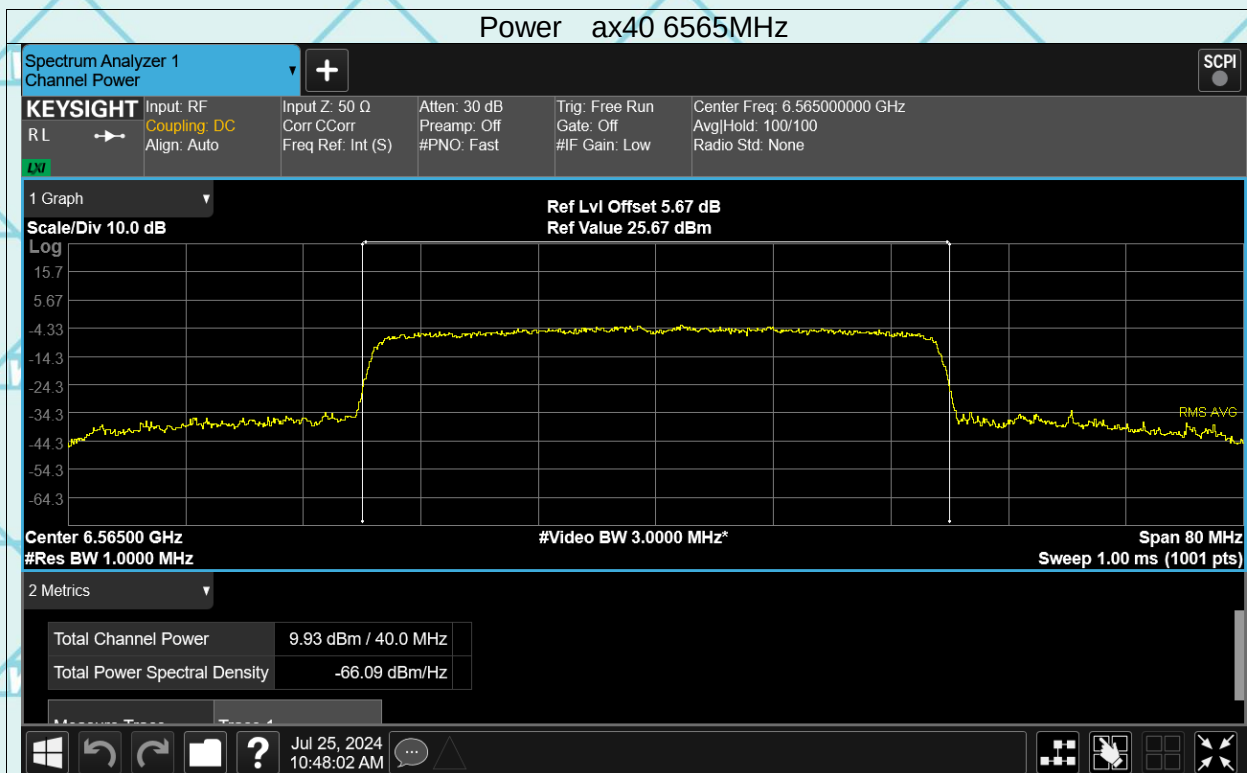
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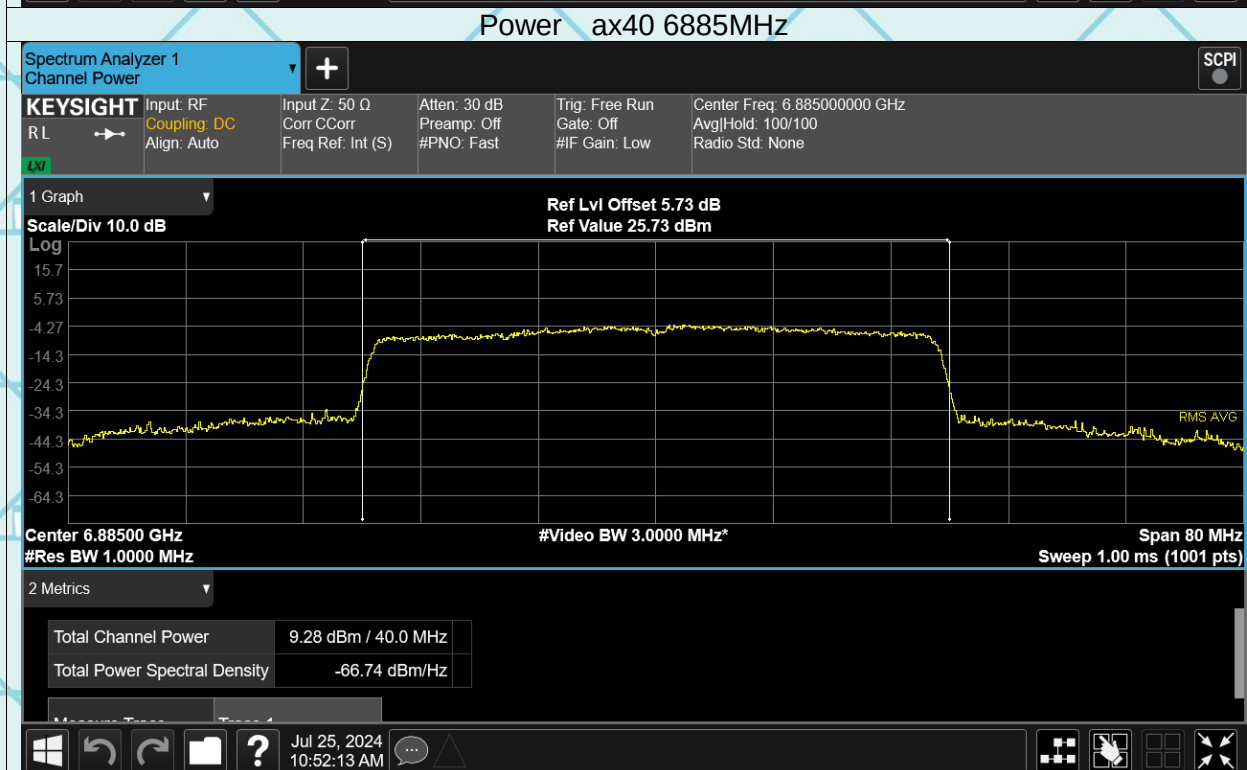
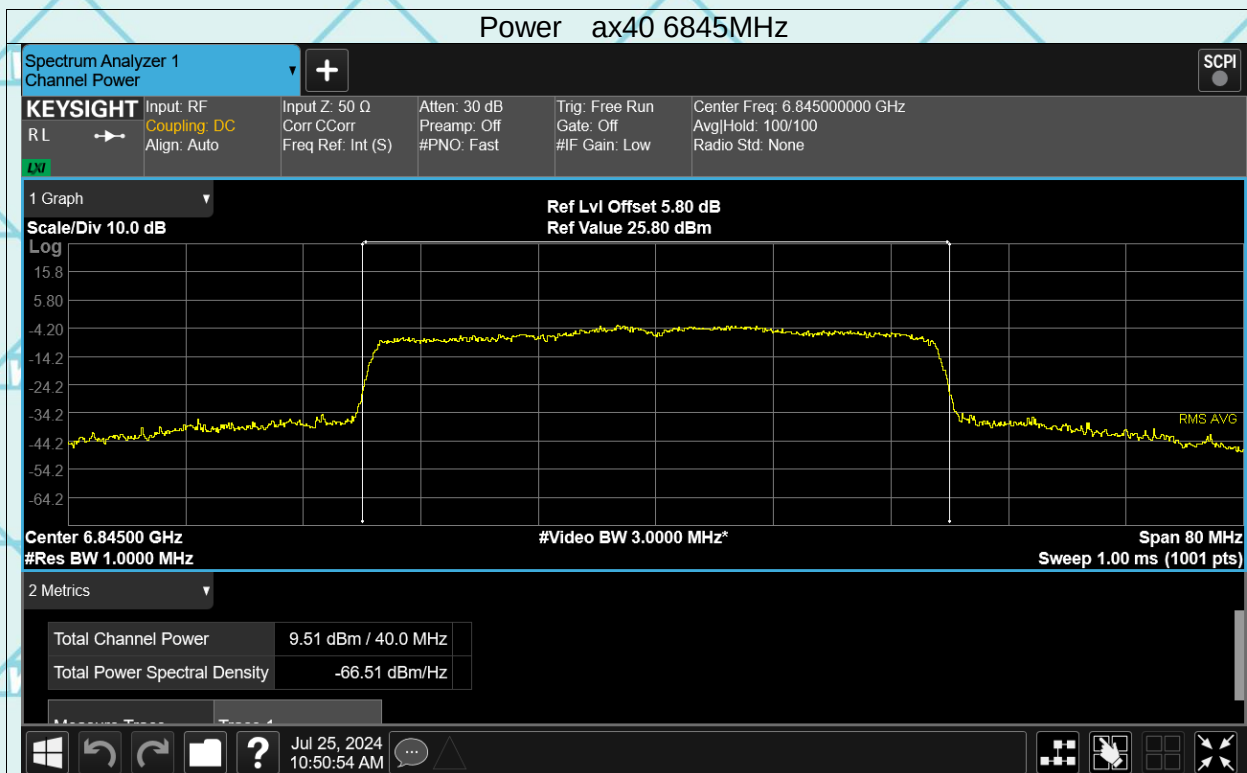
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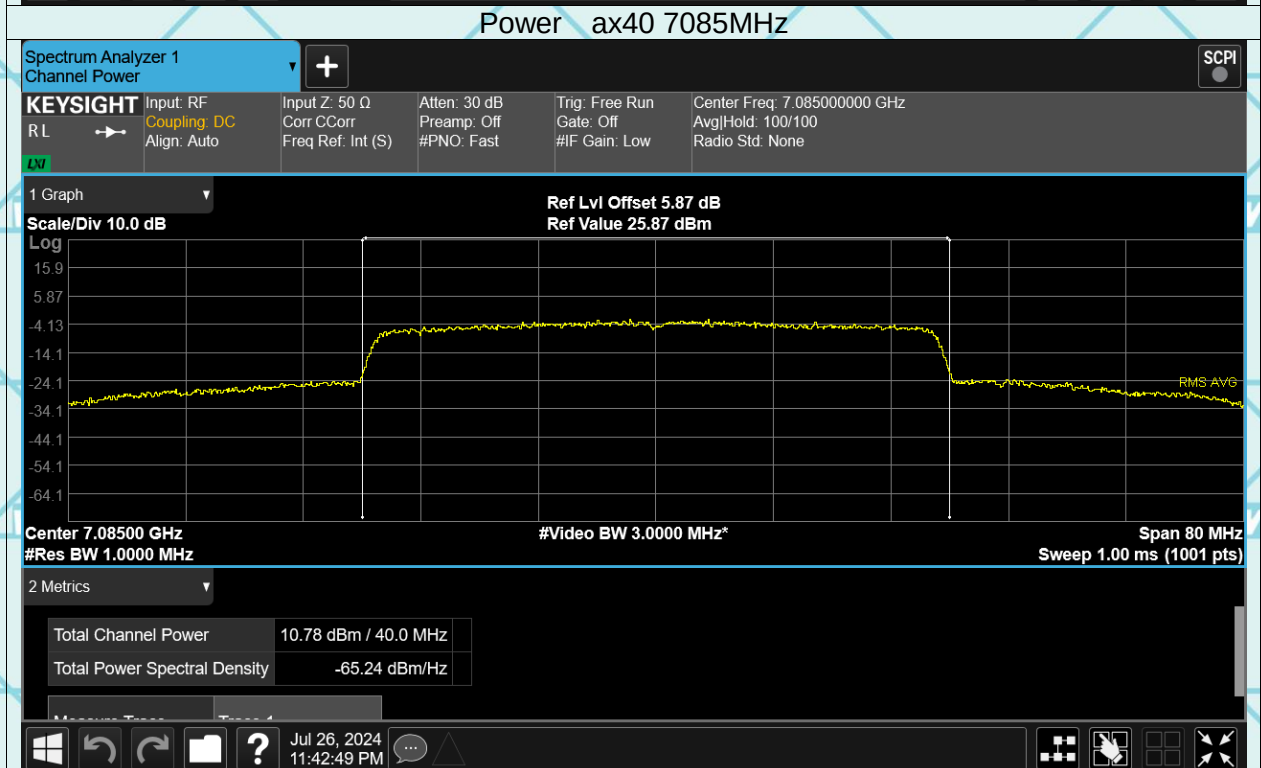
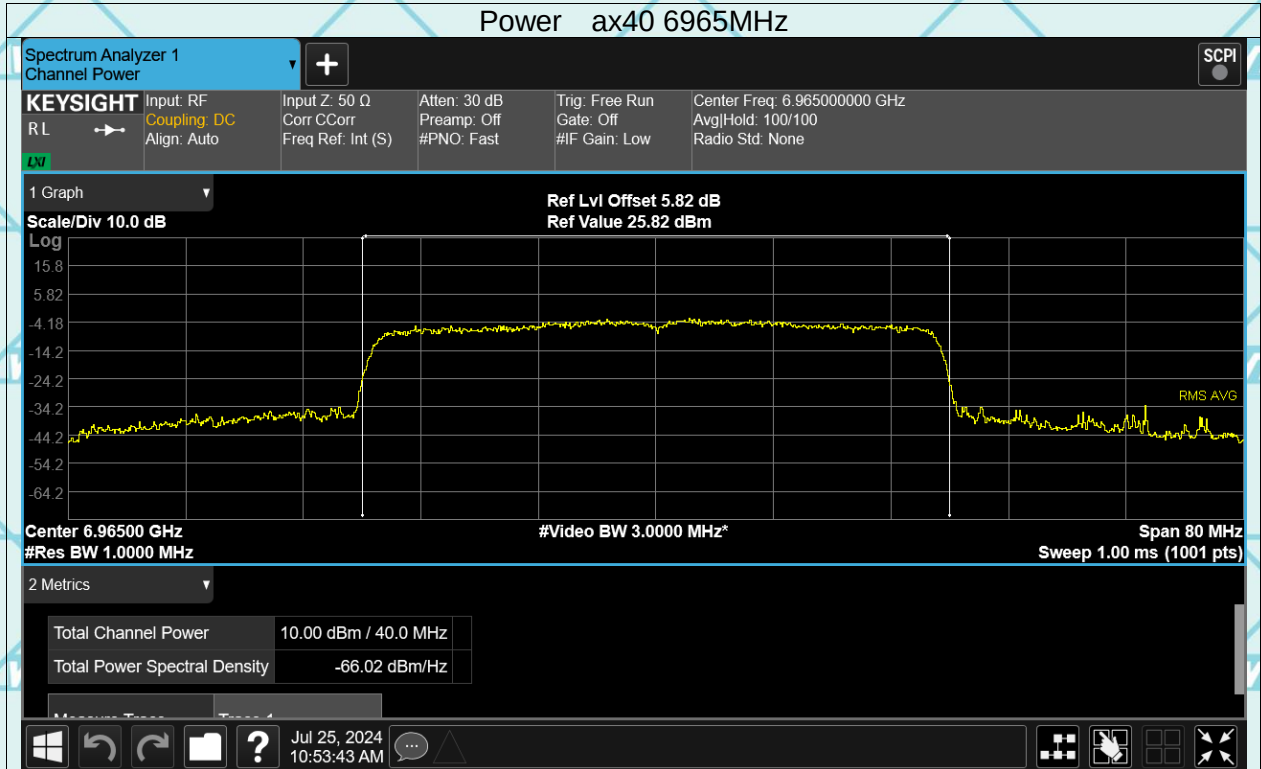
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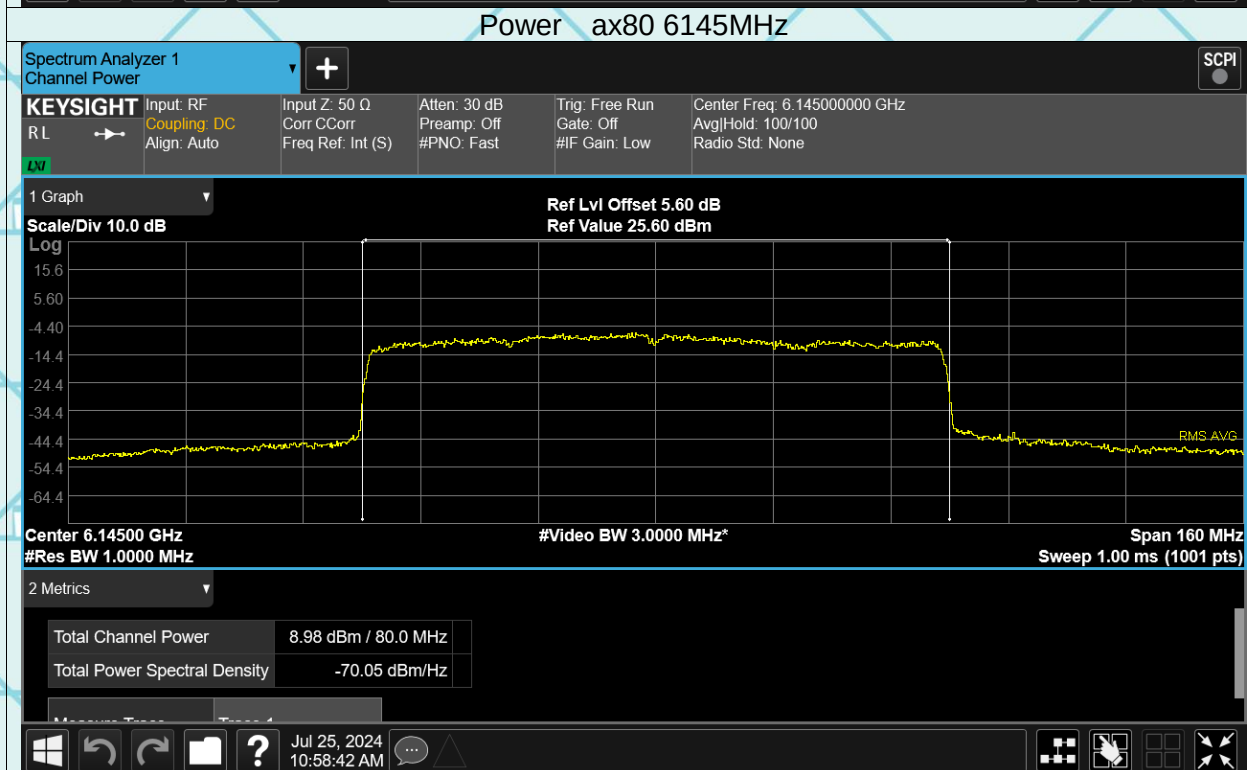
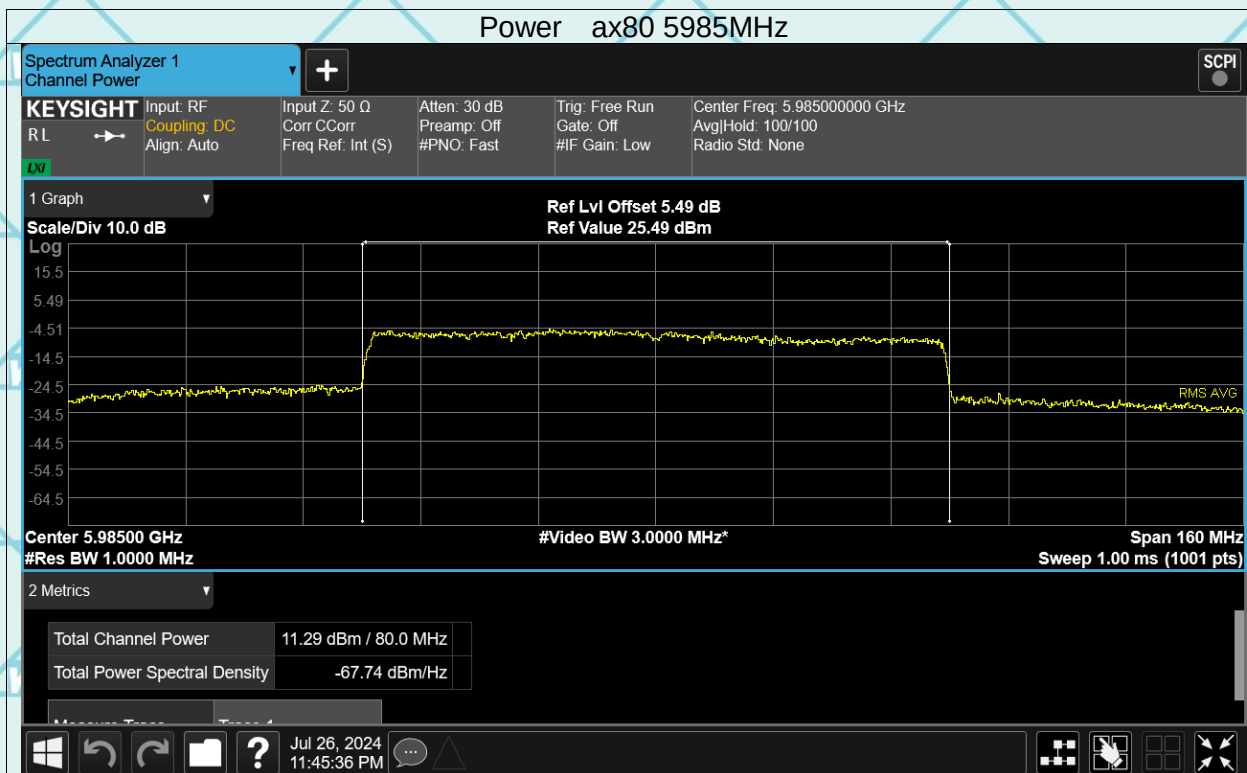
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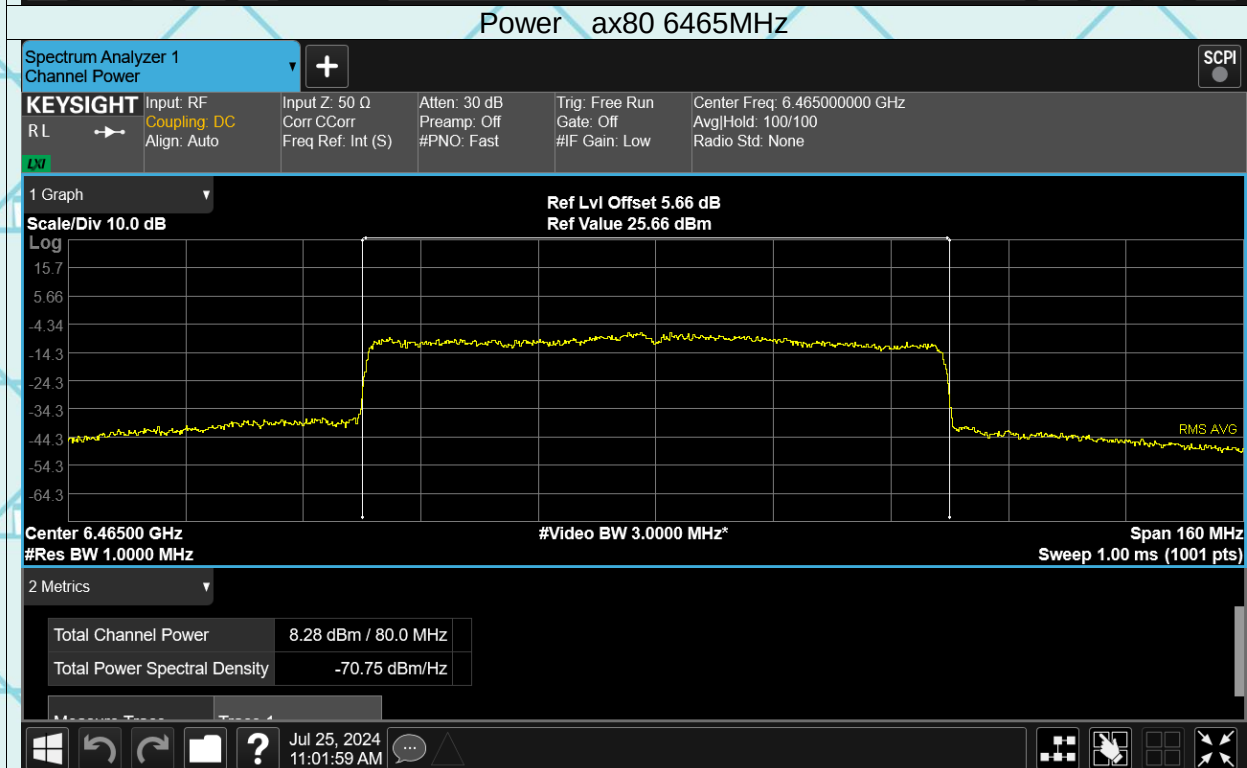
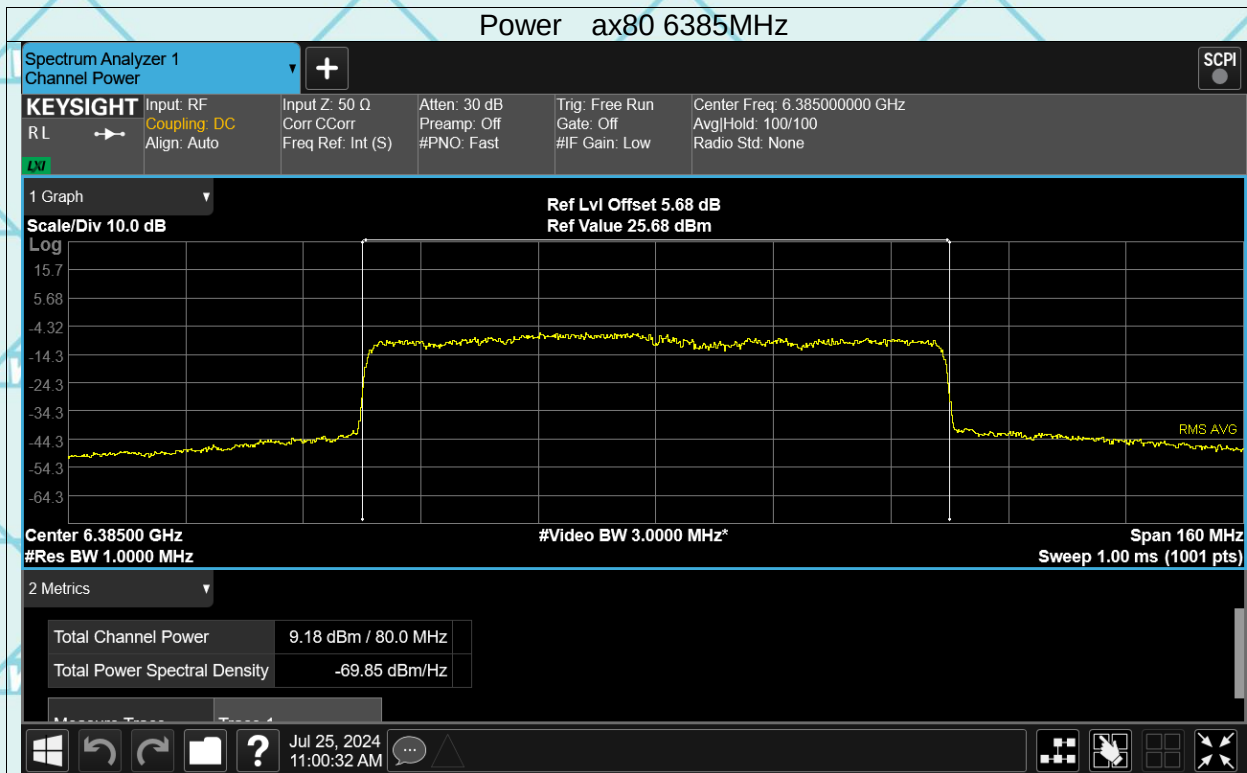
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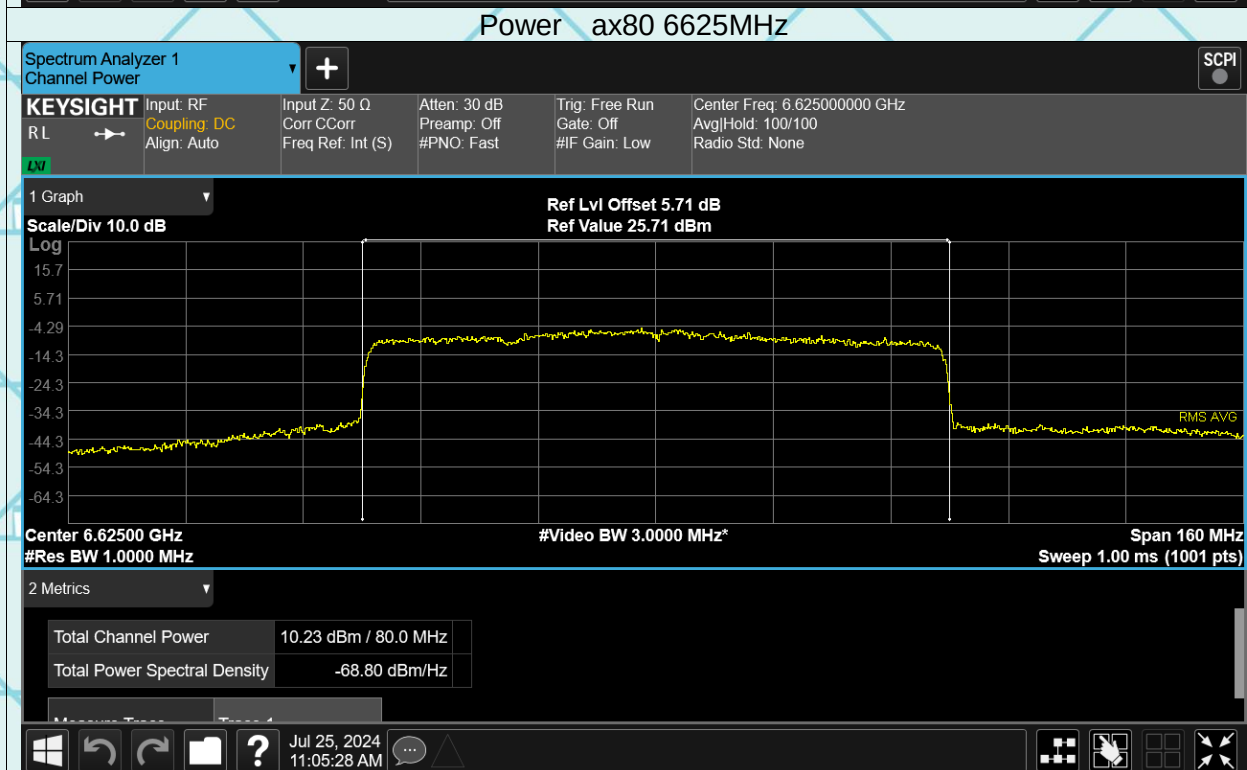
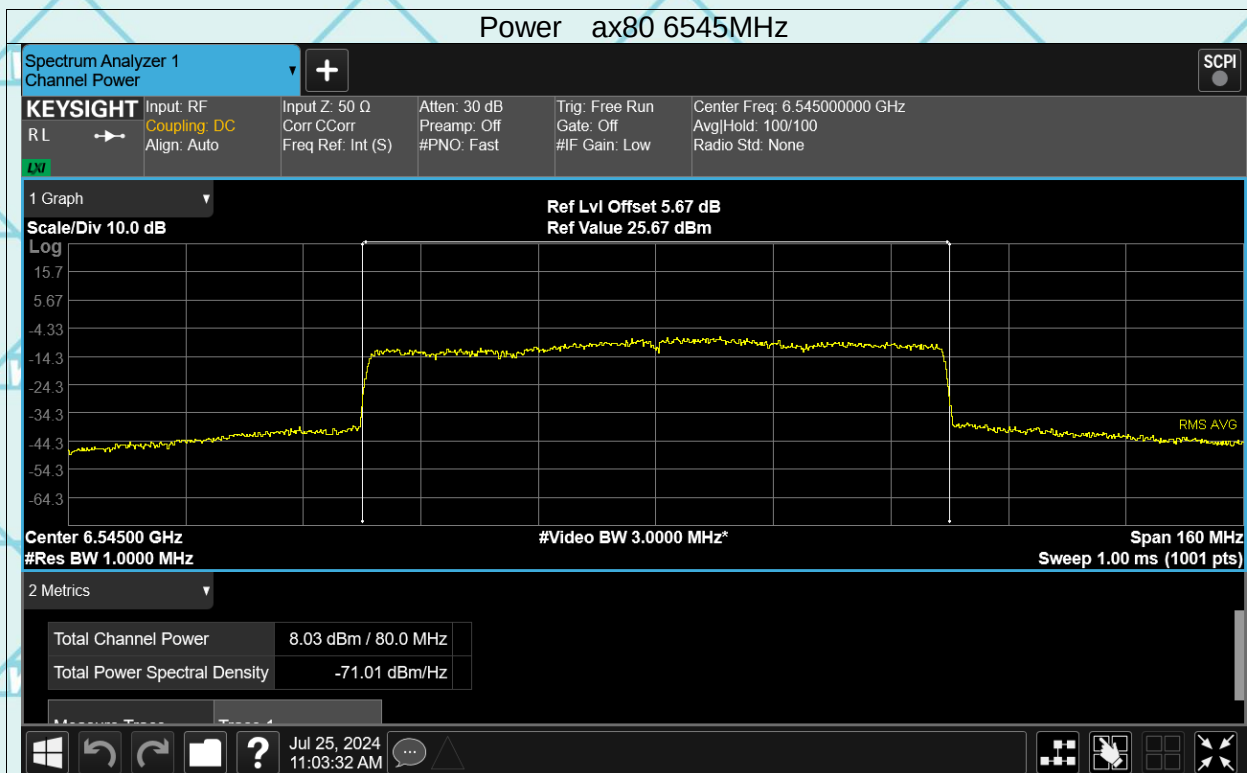
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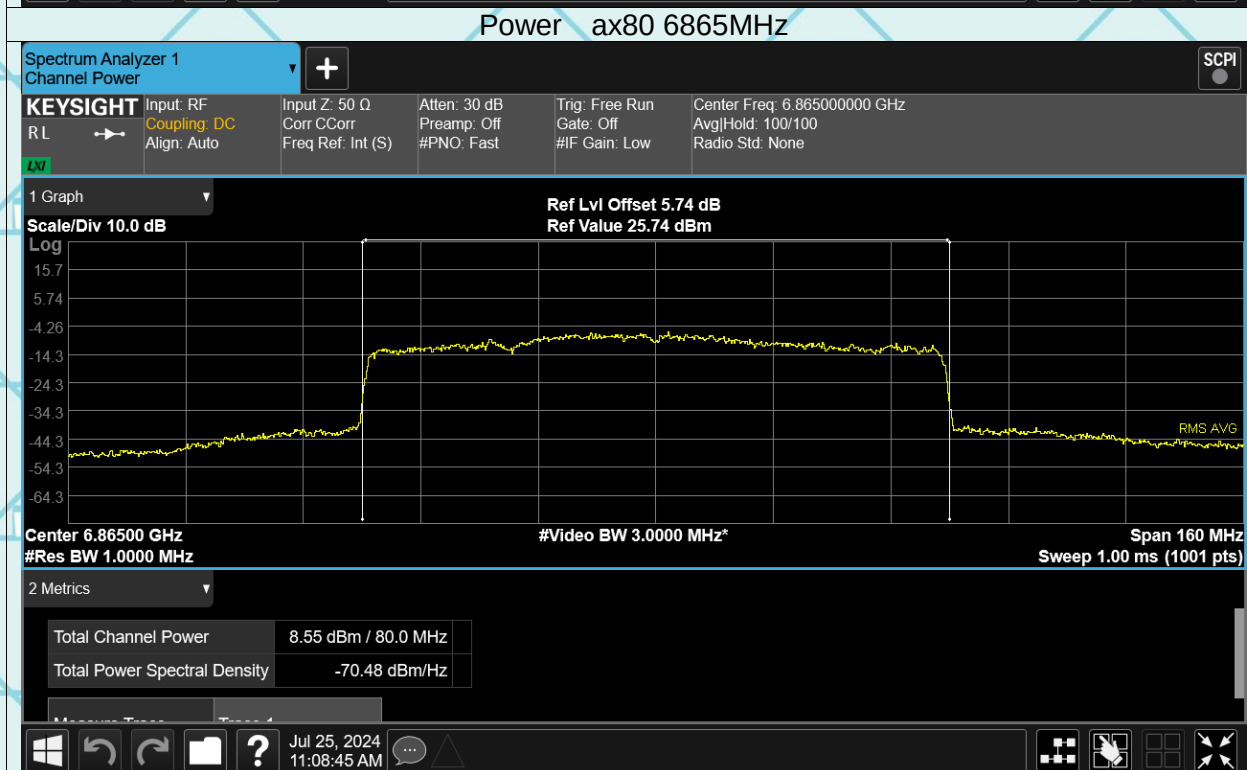
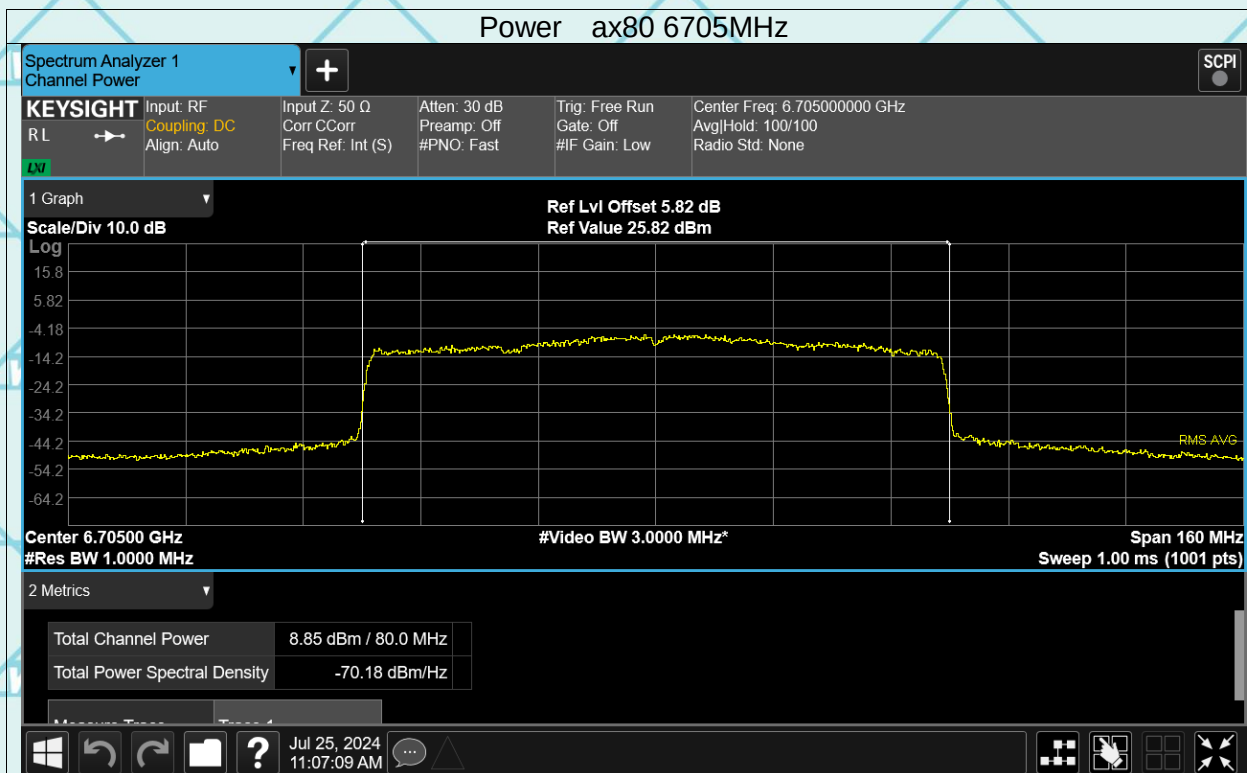
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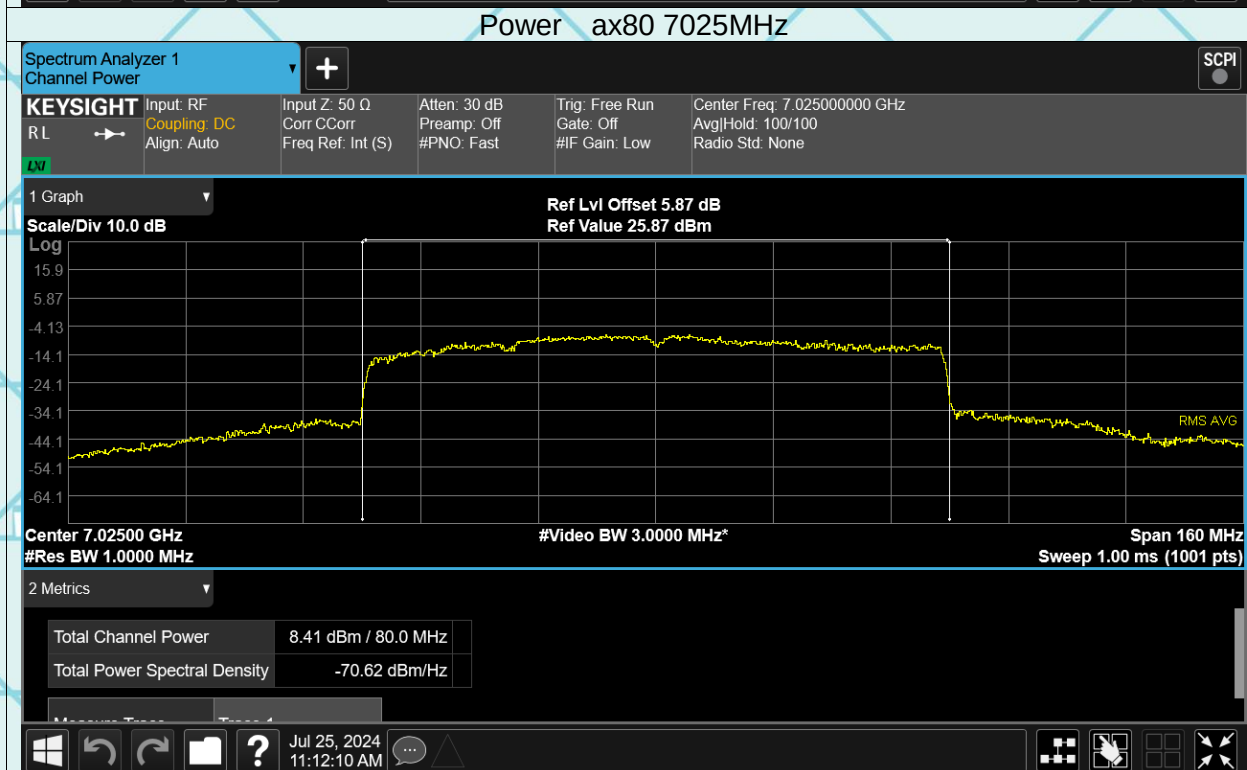
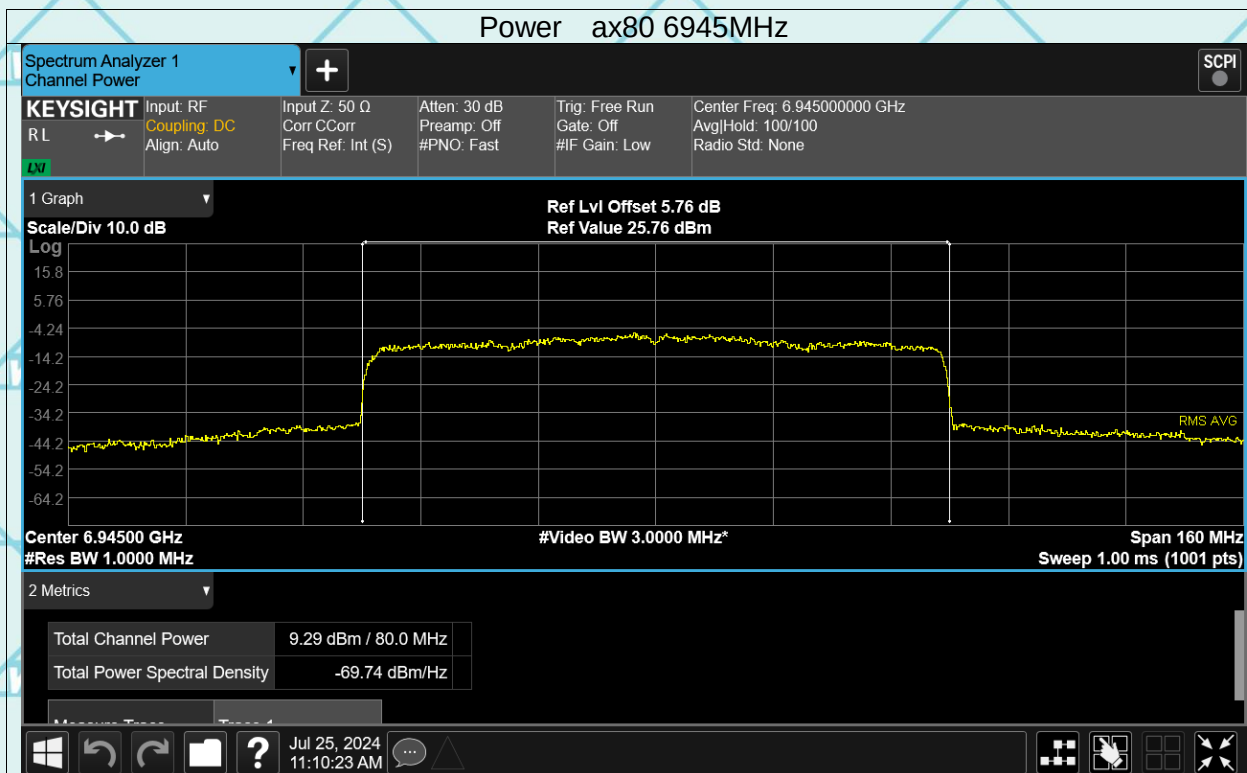
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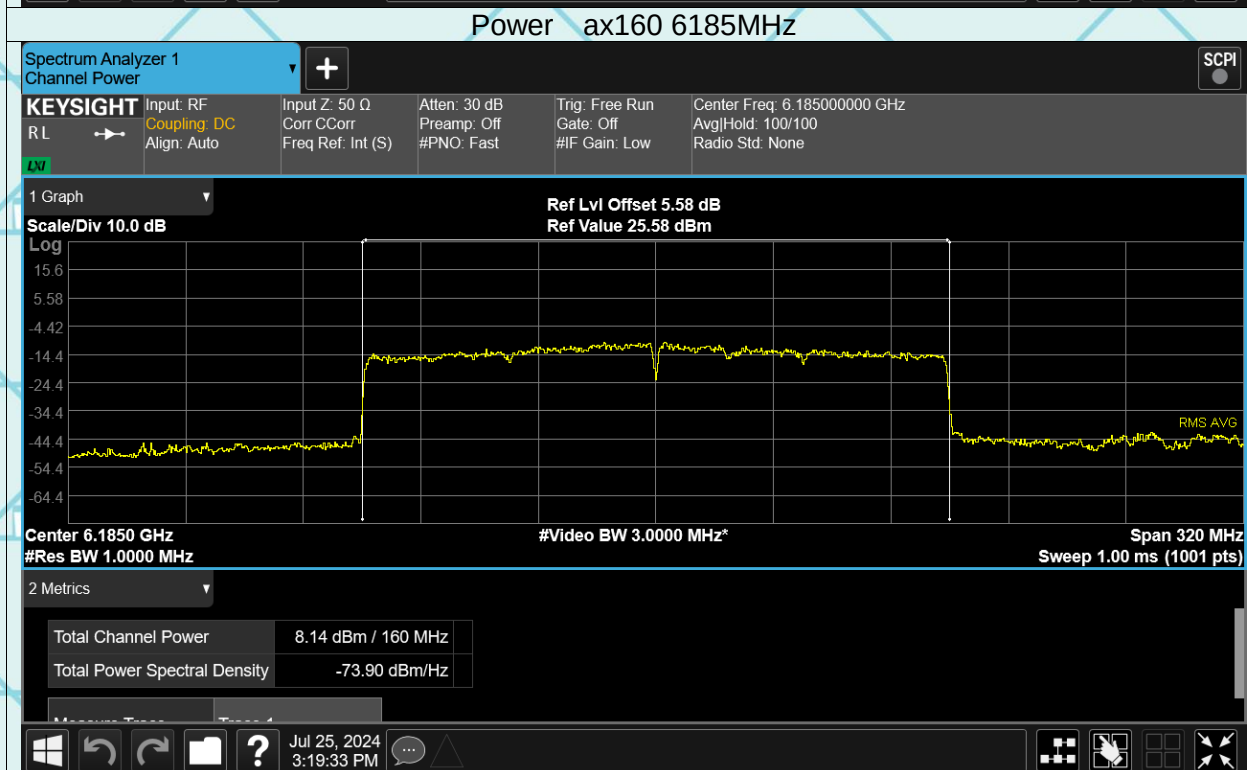
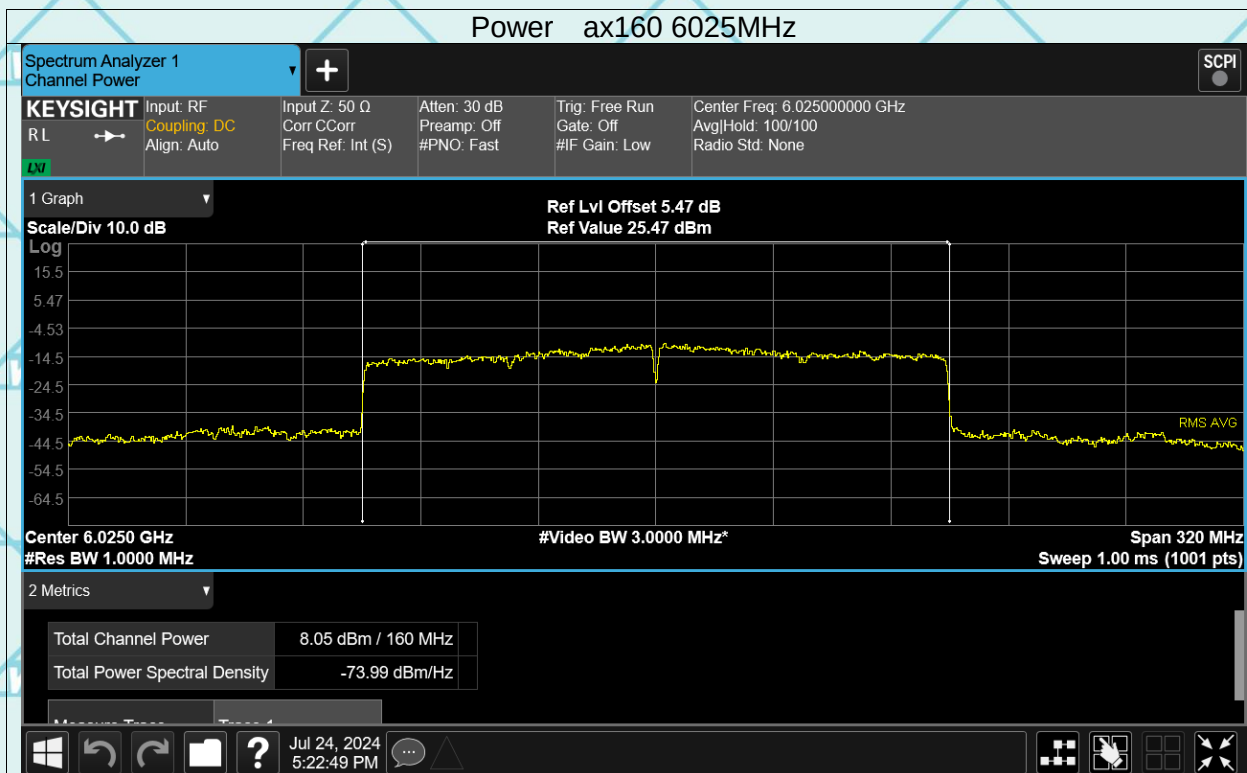
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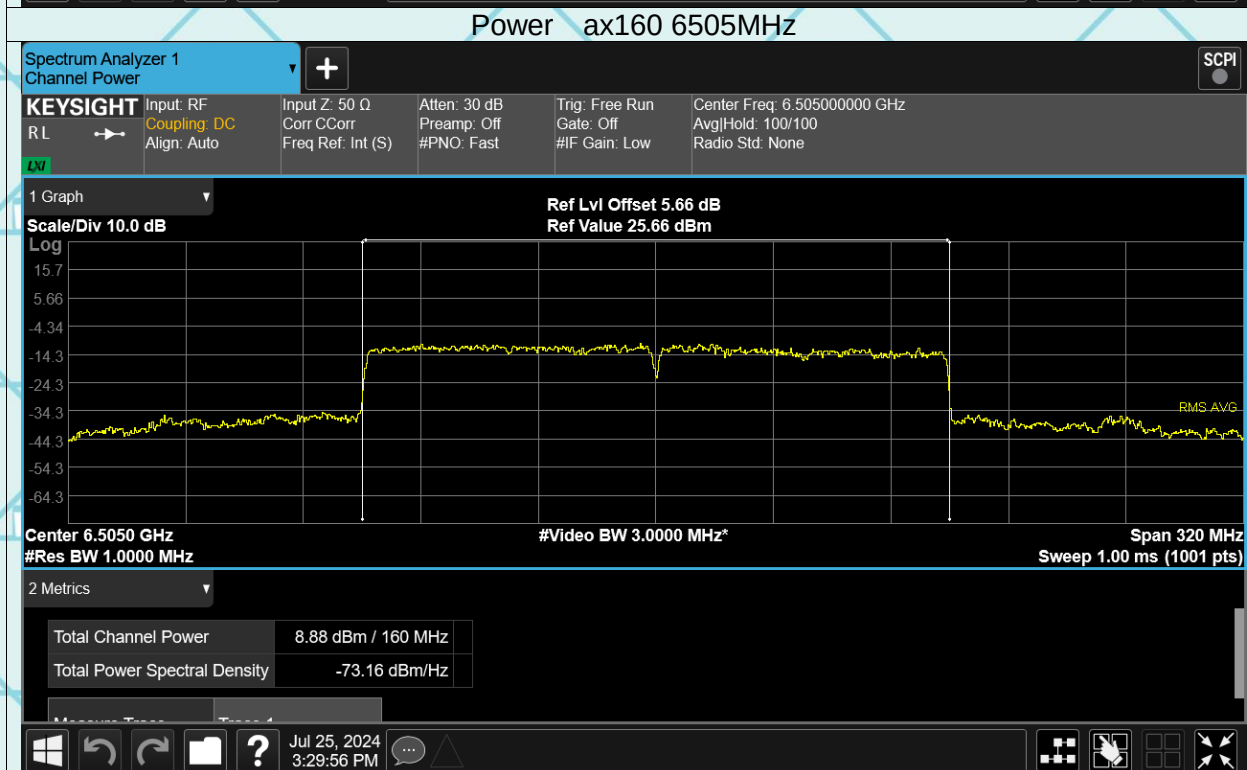
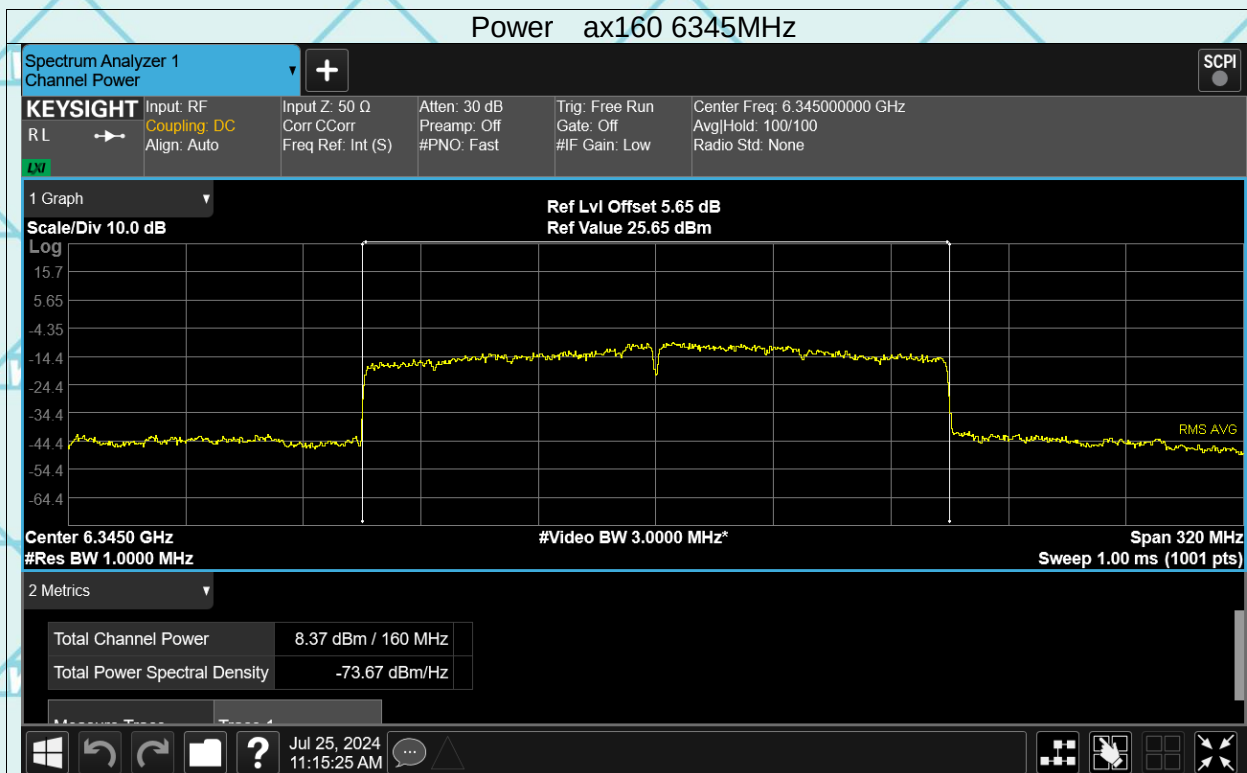
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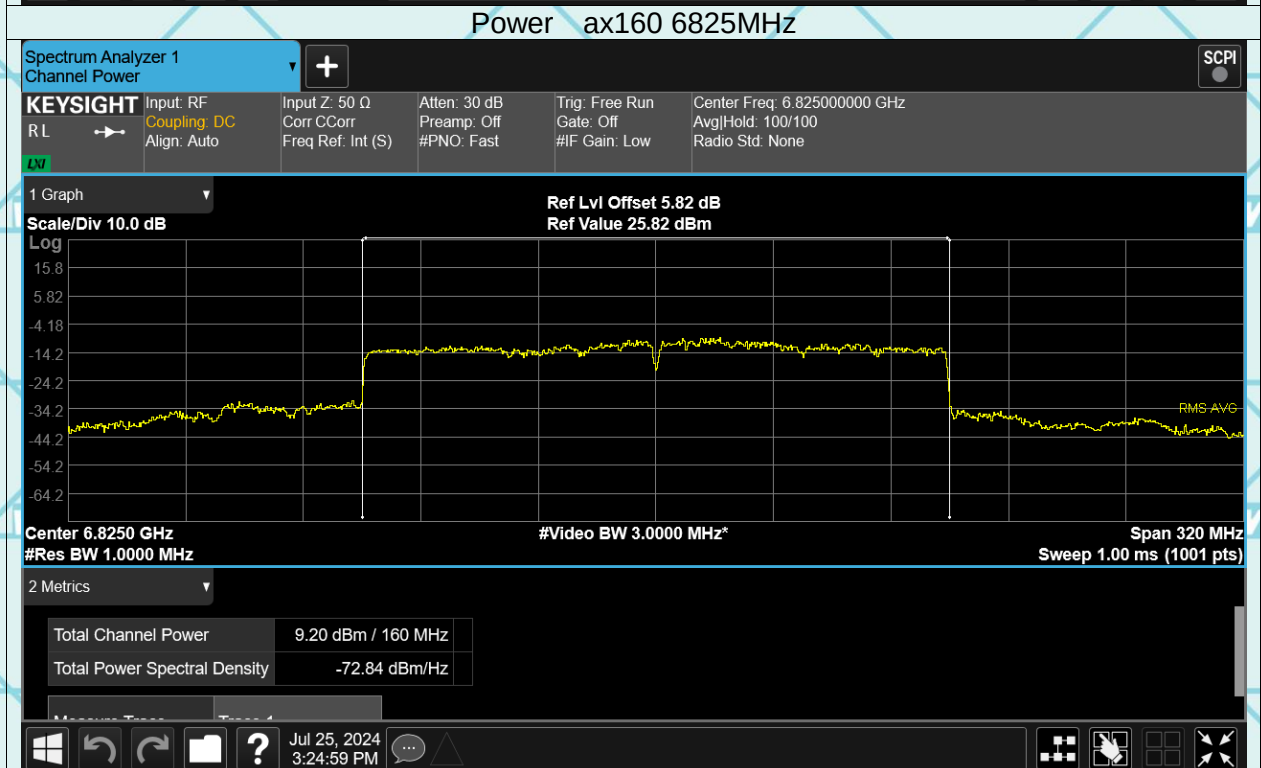
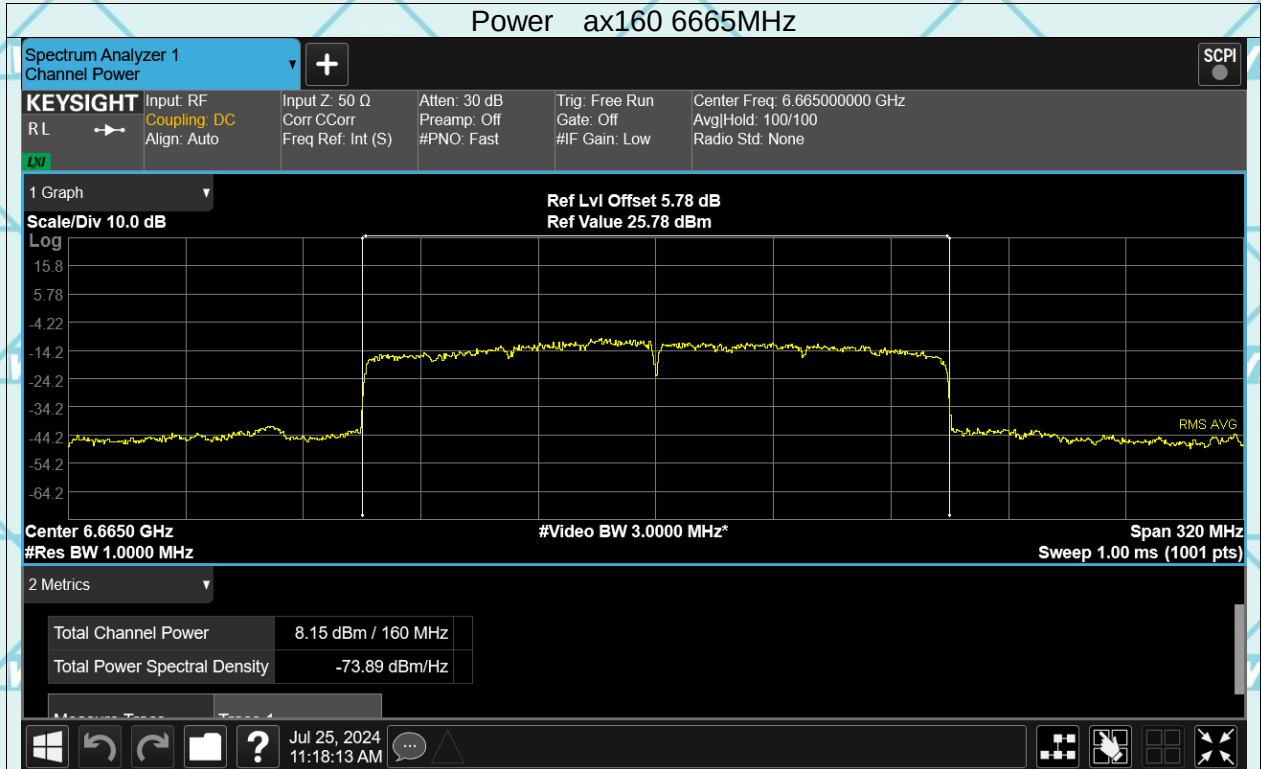
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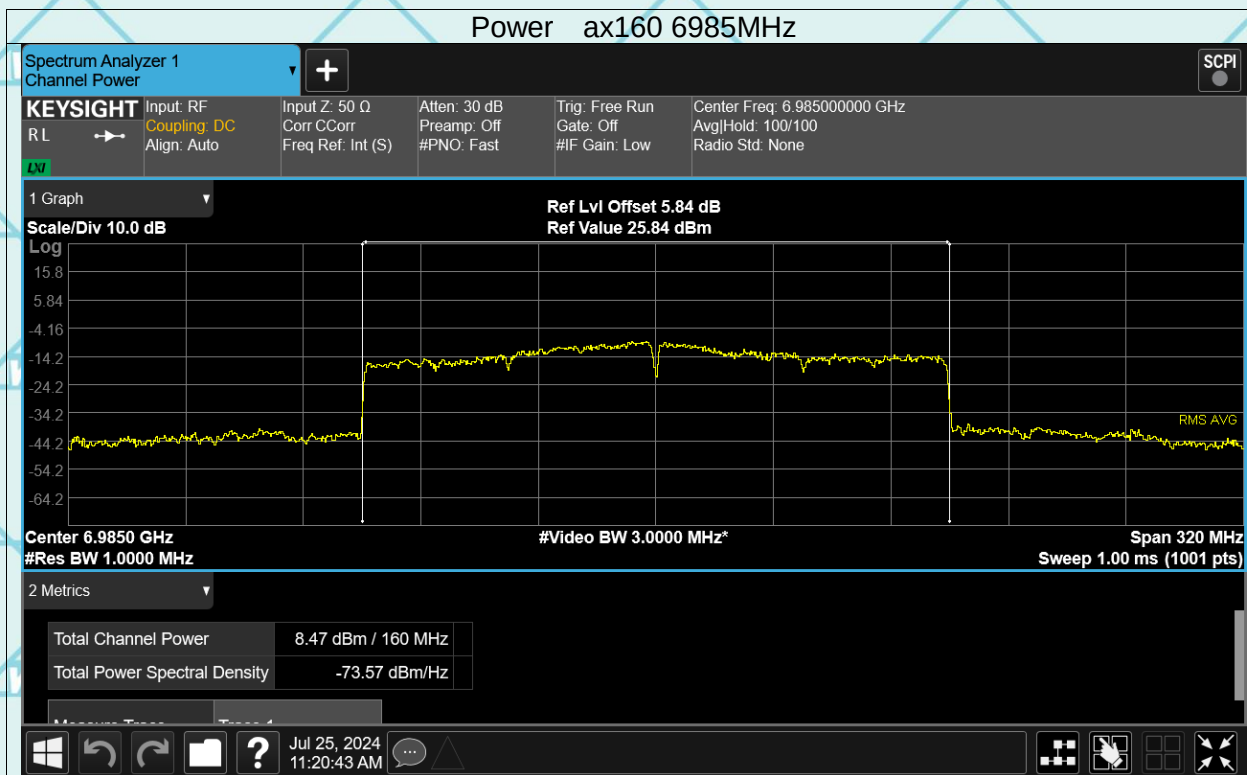
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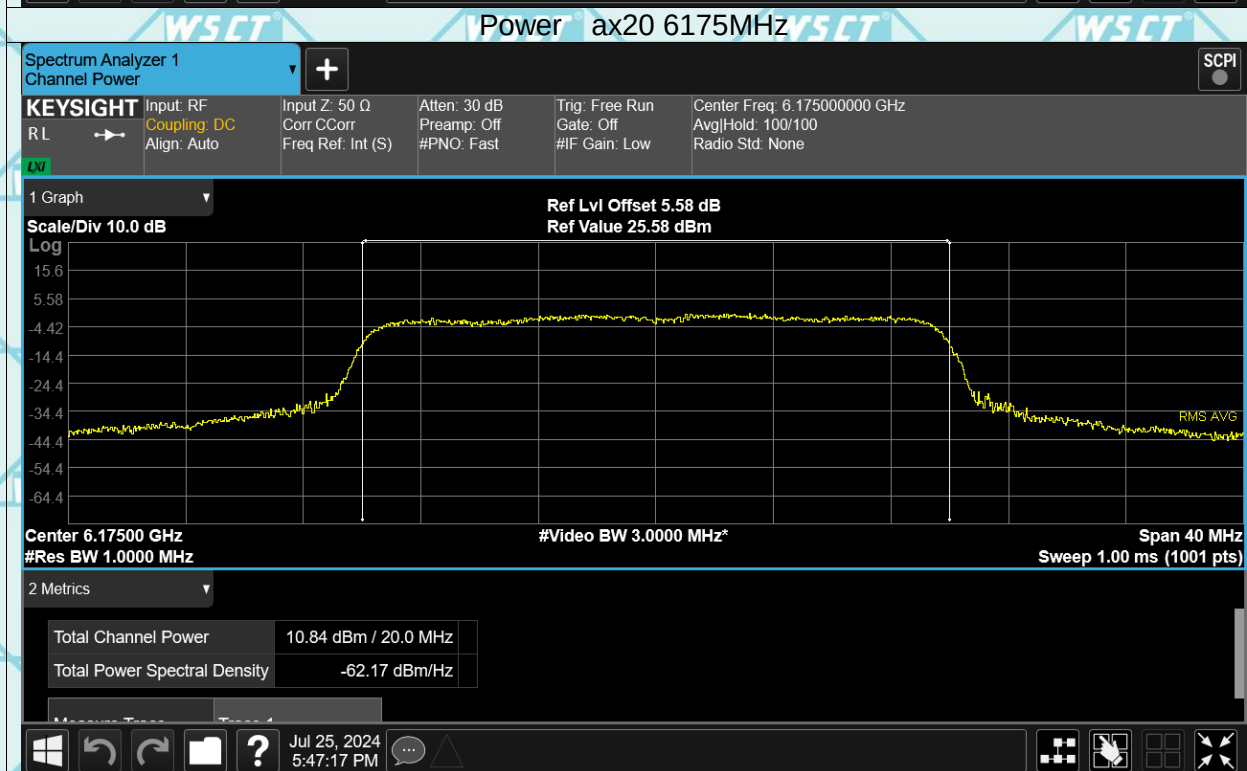
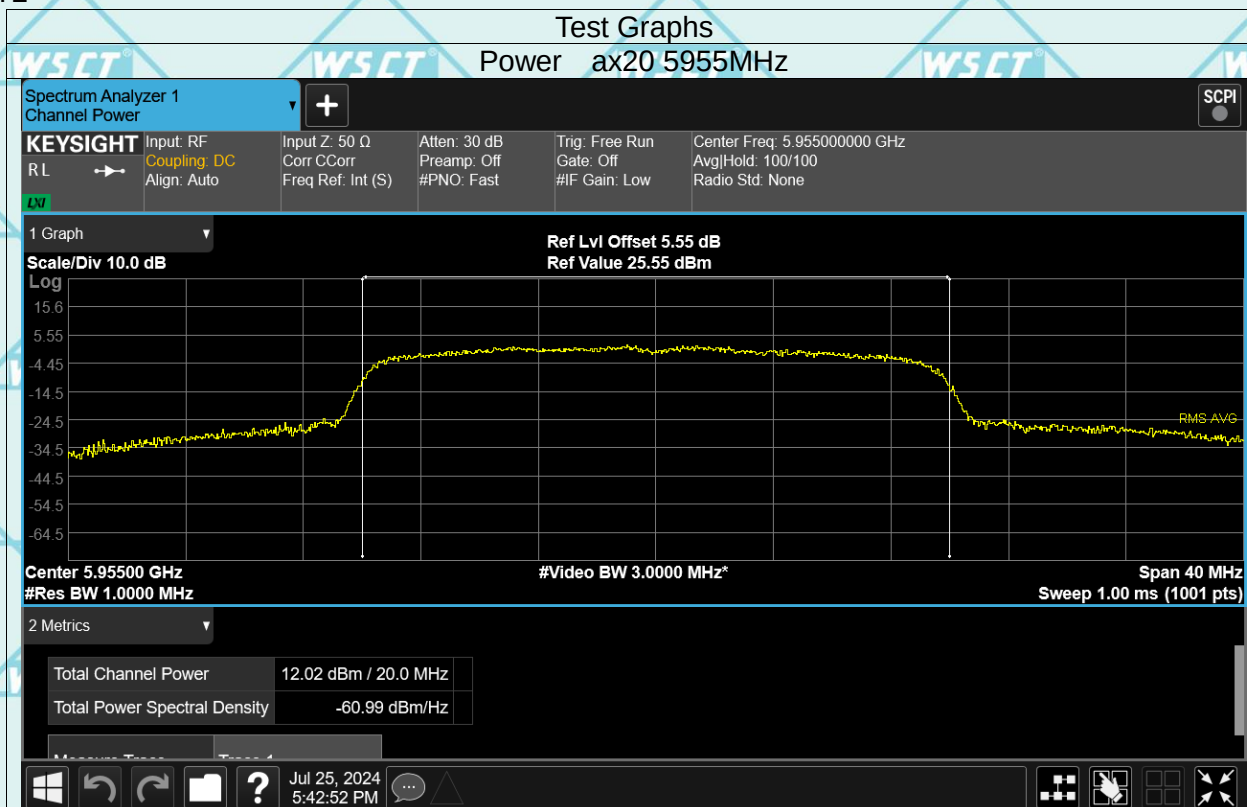


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Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi3

ANT2



Report No.: WSCT-ANAB-R&E240700030A-Wi-Fi3

