

Appendix A: Effective (Isotropic) Radiated Power

Test Result

Test Band: LTE CatM1 B12 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.48	23.04	23.25	1.15	3.3	24.63	24.19	24.4	34.77	PASS
	1	2	23.23	22.82	23.45	1.15	3.3	24.38	23.97	24.6	34.77	PASS
	1	5	23.18	22.86	23.28	1.15	3.3	24.33	24.01	24.43	34.77	PASS
	3	0	22.54	22.61	22.98	1.15	3.3	23.69	23.76	24.13	34.77	PASS
	3	2	22.68	22.67	22.93	1.15	3.3	23.83	23.82	24.08	34.77	PASS
	3	3	22.61	22.71	22.86	1.15	3.3	23.76	23.86	24.01	34.77	PASS
	6	0	22.79	22.74	22.66	1.15	3.3	23.94	23.89	23.81	34.77	PASS
16QAM	1	0	23.13	23.01	22.68	1.15	3.3	24.28	24.16	23.83	34.77	PASS
	1	2	22.68	22.52	22.82	1.15	3.3	23.83	23.67	23.97	34.77	PASS
	1	5	22.74	22.36	22.75	1.15	3.3	23.89	23.51	23.9	34.77	PASS
	3	0	22.83	22.72	22.83	1.15	3.3	23.98	23.87	23.98	34.77	PASS
	3	2	22.29	22.58	22.97	1.15	3.3	23.44	23.73	24.12	34.77	PASS
	3	3	22.46	22.66	22.86	1.15	3.3	23.61	23.81	24.01	34.77	PASS
	5	0	22.34	22.47	22.77	1.15	3.3	23.49	23.62	23.92	34.77	PASS

Test Band: LTE CatM1 B12 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.18	23.17	23.57	1.15	3.3	24.33	24.32	24.72	34.77	PASS
	1	2	23.14	22.63	23.37	1.15	3.3	24.29	23.78	24.52	34.77	PASS
	1	5	23.18	22.76	23.02	1.15	3.3	24.33	23.91	24.17	34.77	PASS
	3	0	22.84	22.66	22.96	1.15	3.3	23.99	23.81	24.11	34.77	PASS
	3	2	22.52	22.68	23.07	1.15	3.3	23.67	23.83	24.22	34.77	PASS
	3	3	22.62	22.78	22.98	1.15	3.3	23.77	23.93	24.13	34.77	PASS
	6	0	22.82	22.78	22.66	1.15	3.3	23.97	23.93	23.81	34.77	PASS
16QAM	1	0	22.92	22.68	22.17	1.15	3.3	24.07	23.83	23.32	34.77	PASS
	1	2	23.15	22.18	22.56	1.15	3.3	24.3	23.33	23.71	34.77	PASS
	1	5	23.15	22.06	23.04	1.15	3.3	24.3	23.21	24.19	34.77	PASS
	3	0	22.04	22.32	22.97	1.15	3.3	23.19	23.47	24.12	34.77	PASS
	3	2	22.12	22.24	23.12	1.15	3.3	23.27	23.39	24.27	34.77	PASS
	3	3	22.59	22.21	22.96	1.15	3.3	23.74	23.36	24.11	34.77	PASS
	5	0	23.35	22.53	22.79	1.15	3.3	24.5	23.68	23.94	34.77	PASS

Test Band: LTE CatM1 B12 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.13	23.05	23.25	1.15	3.3	24.28	24.2	24.4	34.77	PASS
	1	2	23.21	22.94	23.59	1.15	3.3	24.36	24.09	24.74	34.77	PASS
	1	5	22.71	22.53	23.21	1.15	3.3	23.86	23.68	24.36	34.77	PASS
	3	0	22.46	22.64	22.92	1.15	3.3	23.61	23.79	24.07	34.77	PASS
	3	2	22.61	22.63	23.01	1.15	3.3	23.76	23.78	24.16	34.77	PASS
	3	3	22.68	22.65	22.98	1.15	3.3	23.83	23.8	24.13	34.77	PASS
	6	0	22.91	22.86	22.73	1.15	3.3	24.06	24.01	23.88	34.77	PASS
16QAM	1	0	23.42	23.06	22.51	1.15	3.3	24.57	24.21	23.66	34.77	PASS
	1	2	22.95	22.07	23.05	1.15	3.3	24.1	23.22	24.2	34.77	PASS
	1	5	23.06	22.46	22.84	1.15	3.3	24.21	23.61	23.99	34.77	PASS
	3	0	22.16	22.28	22.94	1.15	3.3	23.31	23.43	24.09	34.77	PASS
	3	2	22.33	22.27	22.83	1.15	3.3	23.48	23.42	23.98	34.77	PASS
	3	3	22.64	22.48	22.82	1.15	3.3	23.79	23.63	23.97	34.77	PASS
	5	0	23.32	22.67	22.95	1.15	3.3	24.47	23.82	24.1	34.77	PASS

Test Band: LTE CatM1 B12 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.04	23.26	23.38	1.15	3.3	24.19	24.41	24.53	34.77	PASS
	1	2	23.21	22.94	23.54	1.15	3.3	24.36	24.09	24.69	34.77	PASS
	1	5	23.03	22.93	23.26	1.15	3.3	24.18	24.08	24.41	34.77	PASS
	3	0	22.54	22.72	22.78	1.15	3.3	23.69	23.87	23.93	34.77	PASS
	3	2	22.71	22.61	23.07	1.15	3.3	23.86	23.76	24.22	34.77	PASS
	3	3	22.68	22.68	22.93	1.15	3.3	23.83	23.83	24.08	34.77	PASS
	6	0	22.95	22.75	22.64	1.15	3.3	24.1	23.9	23.79	34.77	PASS
16QAM	1	0	23.38	22.34	22.82	1.15	3.3	24.53	23.49	23.97	34.77	PASS
	1	2	23.45	22.71	23.26	1.15	3.3	24.6	23.86	24.41	34.77	PASS
	1	5	23.22	22.32	23.18	1.15	3.3	24.37	23.47	24.33	34.77	PASS
	3	0	22.31	22.76	23.14	1.15	3.3	23.46	23.91	24.29	34.77	PASS
	3	2	22.31	22.32	22.88	1.15	3.3	23.46	23.47	24.03	34.77	PASS
	3	3	22.64	22.48	22.94	1.15	3.3	23.79	23.63	24.09	34.77	PASS
	5	0	23.12	22.57	22.95	1.15	3.3	24.27	23.72	24.1	34.77	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

3) ERP = Conducted output power + Antenna gain (dBd)

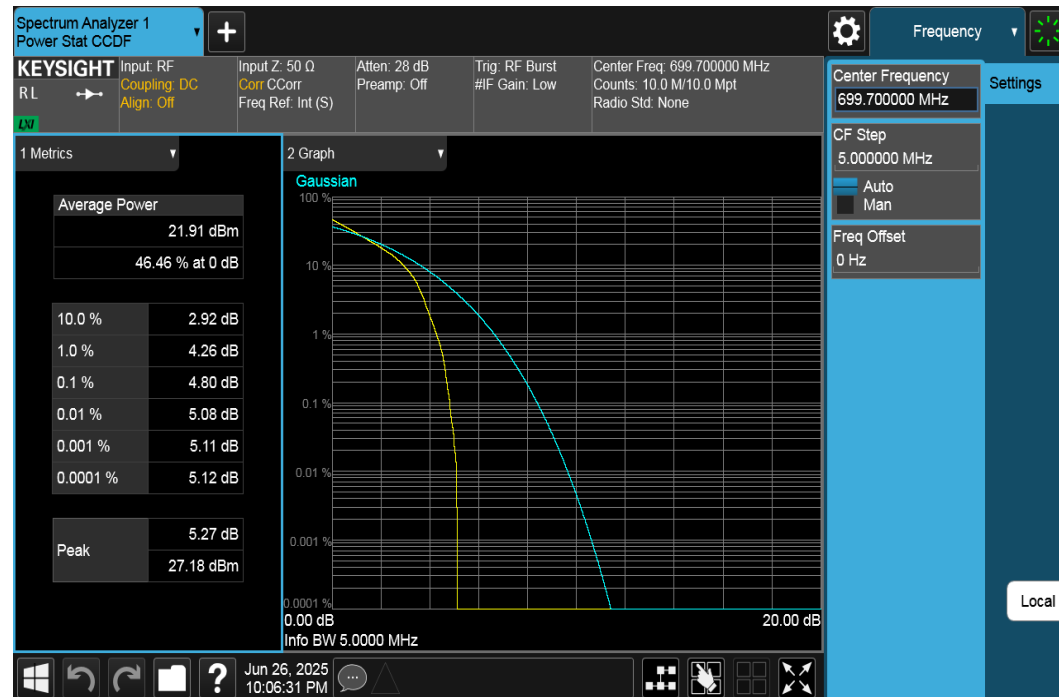
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	699.7	QPSK	6	0	Low	4.80	<=13	PASS
Band12	1.4MHz	699.7	16QAM	5	0	Middle	6.43	<=13	PASS
Band12	1.4MHz	707.5	QPSK	6	0	High	5.20	<=13	PASS
Band12	1.4MHz	707.5	16QAM	5	0	Low	6.61	<=13	PASS
Band12	1.4MHz	715.3	QPSK	6	0	Middle	5.05	<=13	PASS
Band12	1.4MHz	715.3	16QAM	5	0	High	6.73	<=13	PASS
Band12	3MHz	700.5	QPSK	6	0	Low	4.63	<=13	PASS
Band12	3MHz	700.5	16QAM	5	0	Middle	6.16	<=13	PASS
Band12	3MHz	707.5	QPSK	6	0	High	4.87	<=13	PASS
Band12	3MHz	707.5	16QAM	5	0	Low	6.47	<=13	PASS
Band12	3MHz	714.5	QPSK	6	0	Middle	5.02	<=13	PASS
Band12	3MHz	714.5	16QAM	5	0	High	6.71	<=13	PASS
Band12	5MHz	701.5	QPSK	6	0	Low	4.86	<=13	PASS
Band12	5MHz	701.5	16QAM	5	0	Middle	5.11	<=13	PASS
Band12	5MHz	707.5	QPSK	6	0	High	5.14	<=13	PASS
Band12	5MHz	707.5	16QAM	5	0	Low	5.25	<=13	PASS
Band12	5MHz	713.5	QPSK	6	0	Middle	5.45	<=13	PASS
Band12	5MHz	713.5	16QAM	5	0	High	5.55	<=13	PASS
Band12	10MHz	704	QPSK	6	0	Low	5.19	<=13	PASS
Band12	10MHz	704	16QAM	5	0	Middle	4.47	<=13	PASS
Band12	10MHz	707.5	QPSK	6	0	High	5.17	<=13	PASS
Band12	10MHz	707.5	16QAM	5	0	Low	4.56	<=13	PASS
Band12	10MHz	711	QPSK	6	0	Middle	5.56	<=13	PASS
Band12	10MHz	711	16QAM	5	0	High	4.84	<=13	PASS

Test Graphs

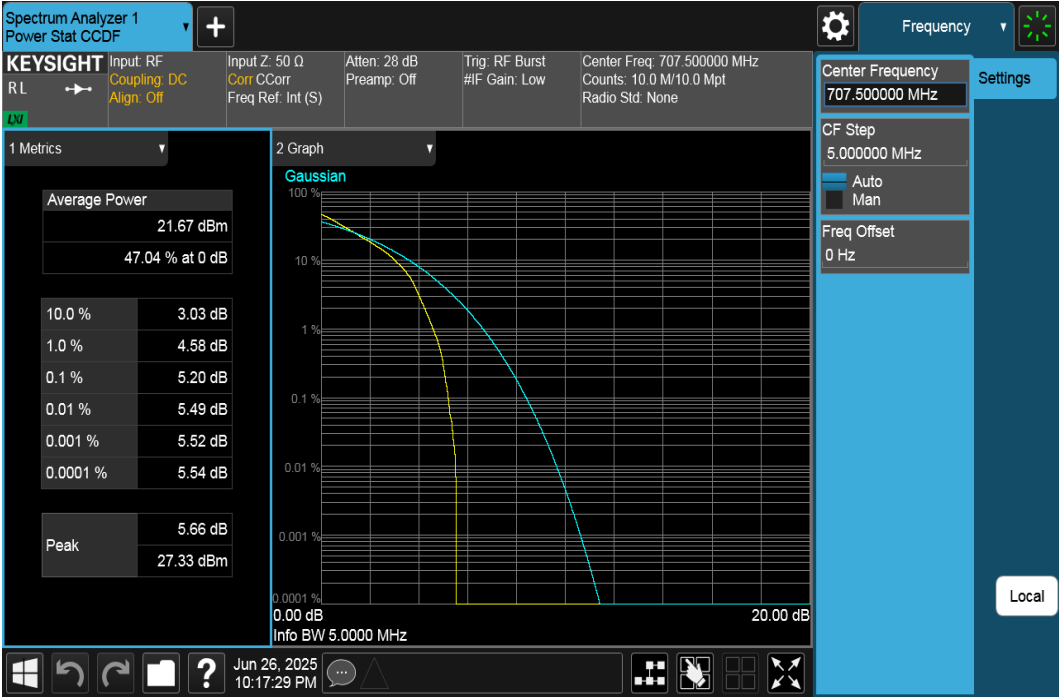
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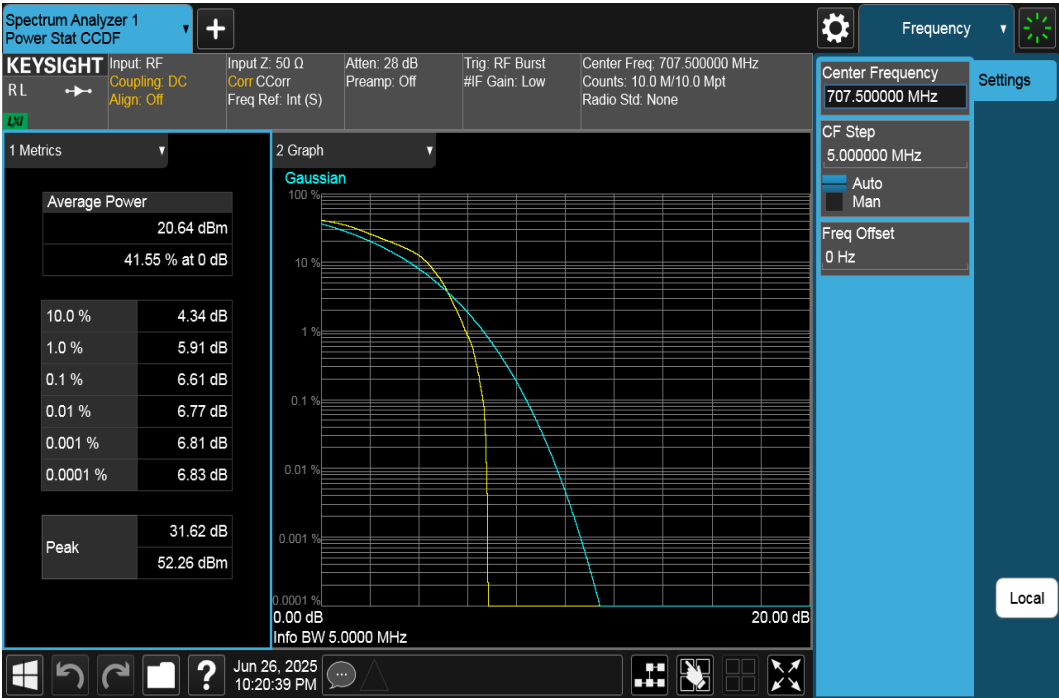
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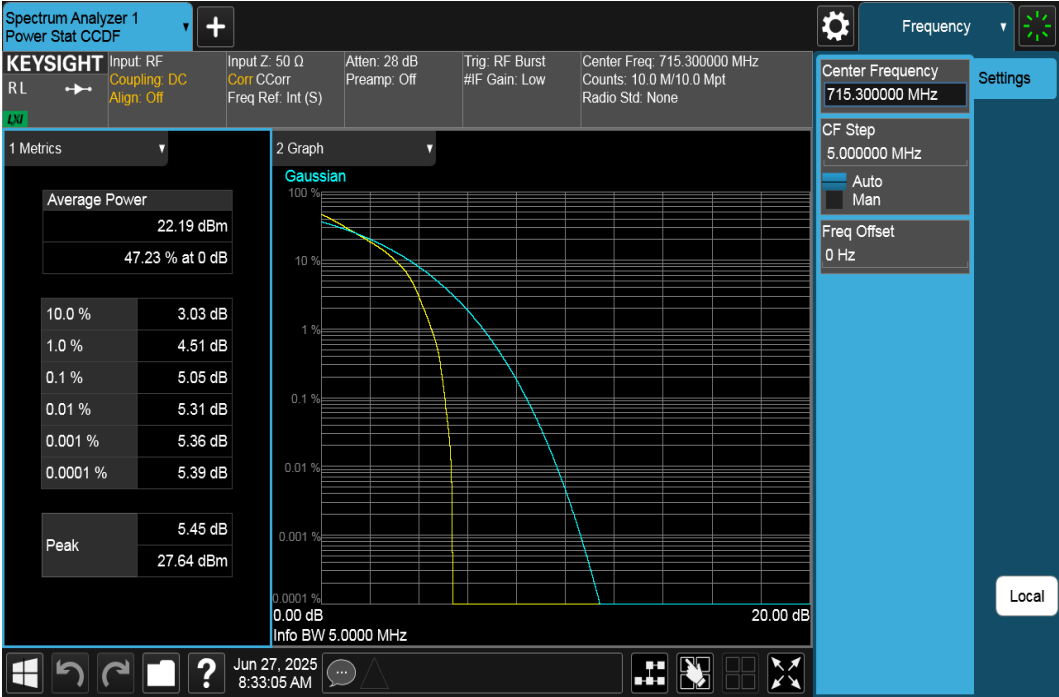
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1.4M_707.5MHz_CHM_16QAM_5RB_PARP



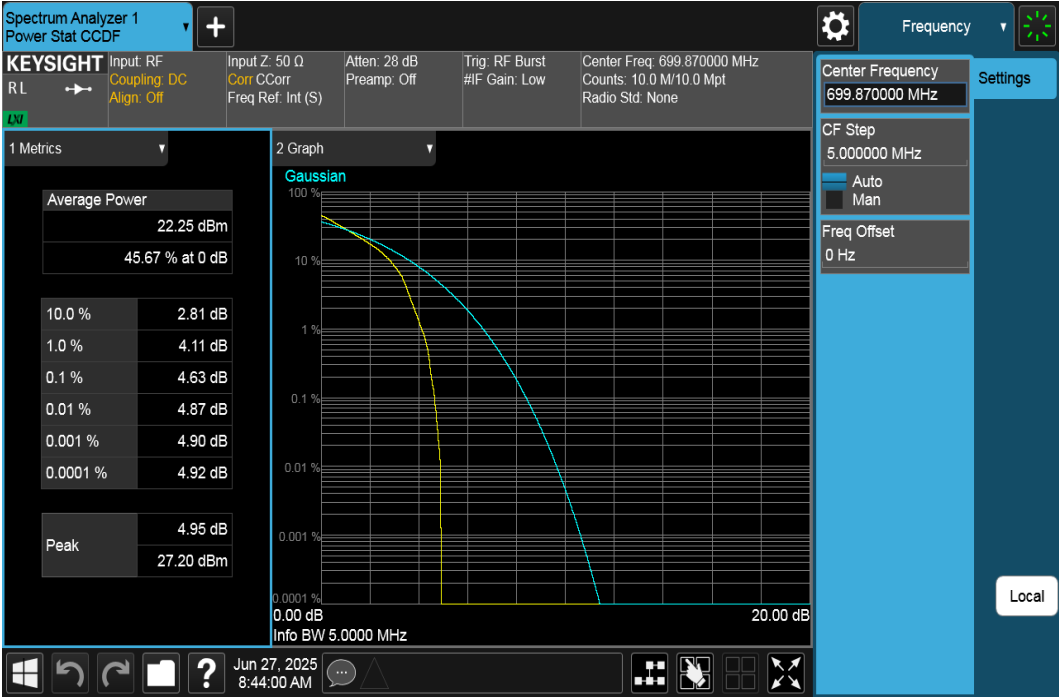
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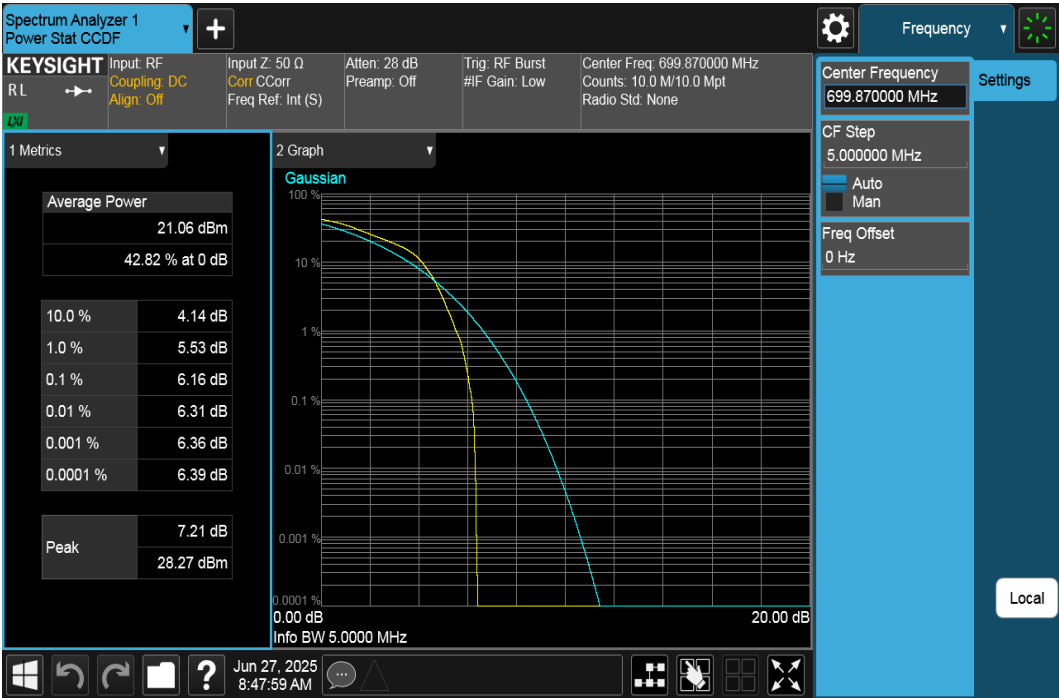
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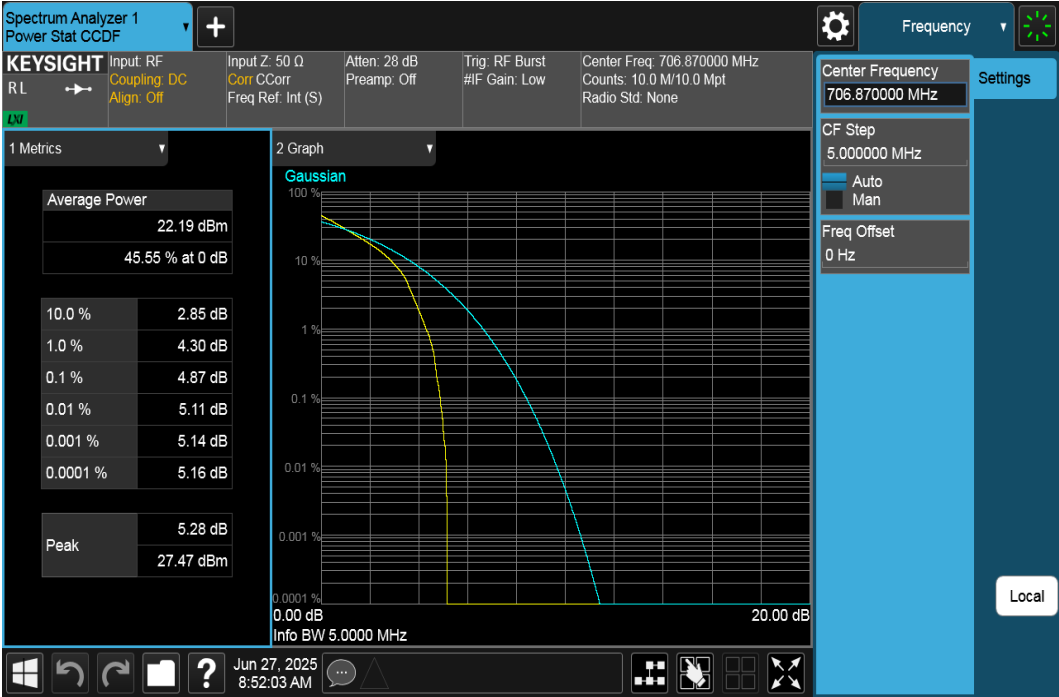
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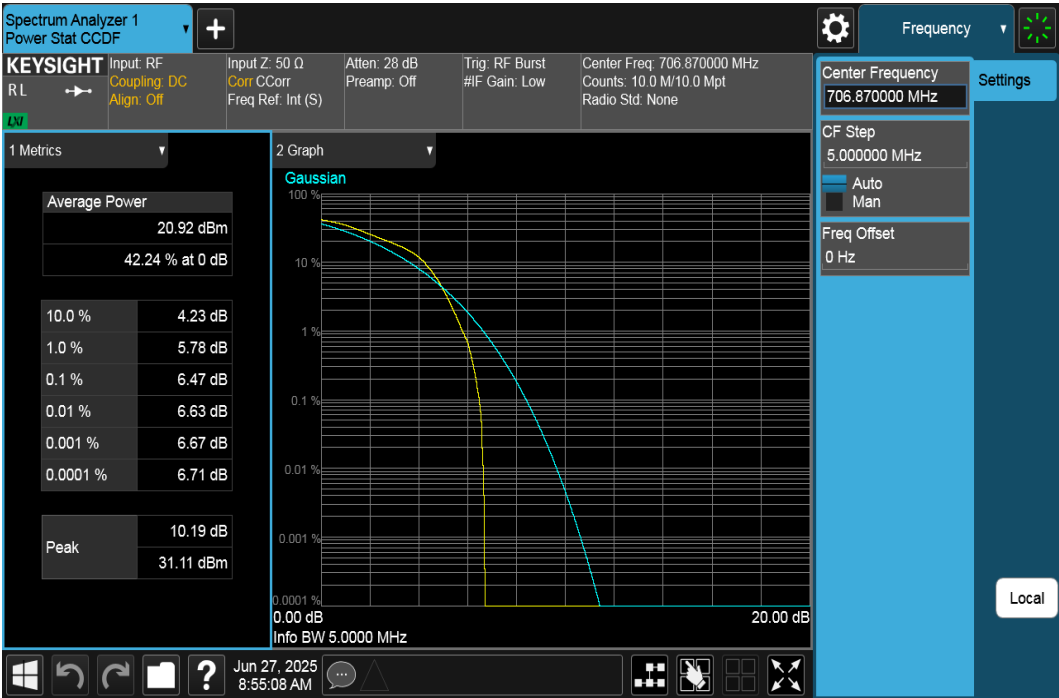
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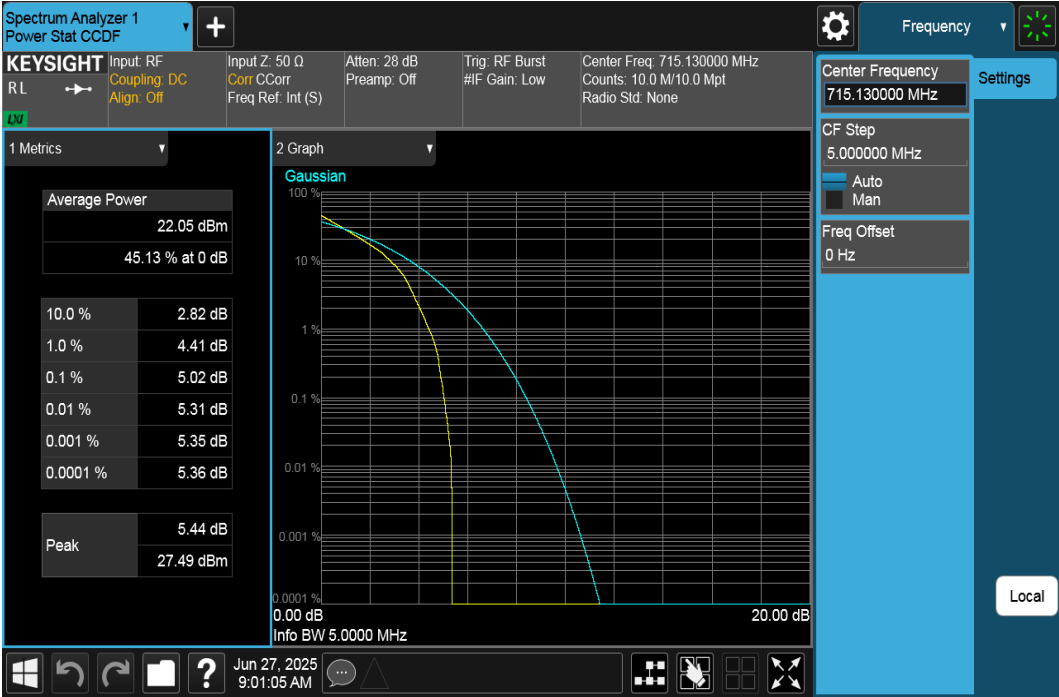
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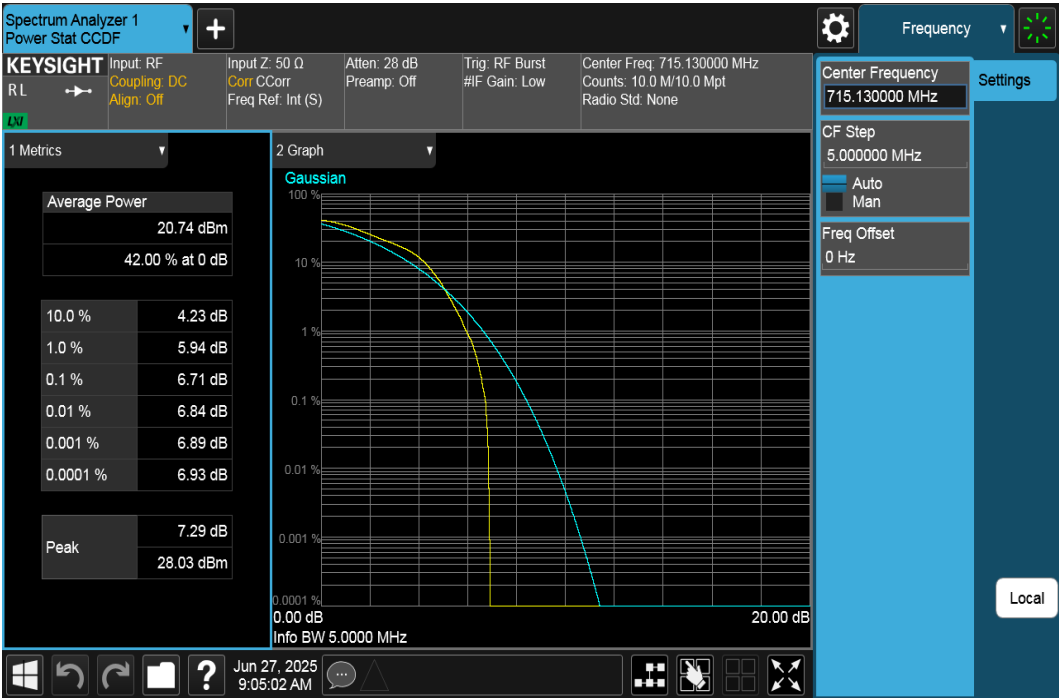
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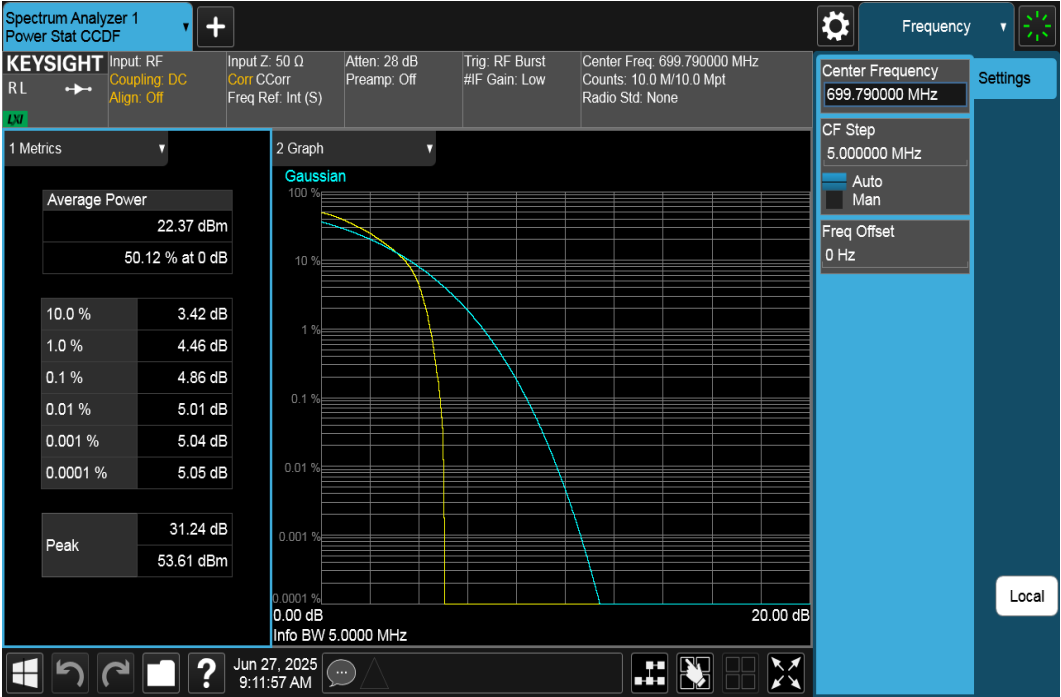
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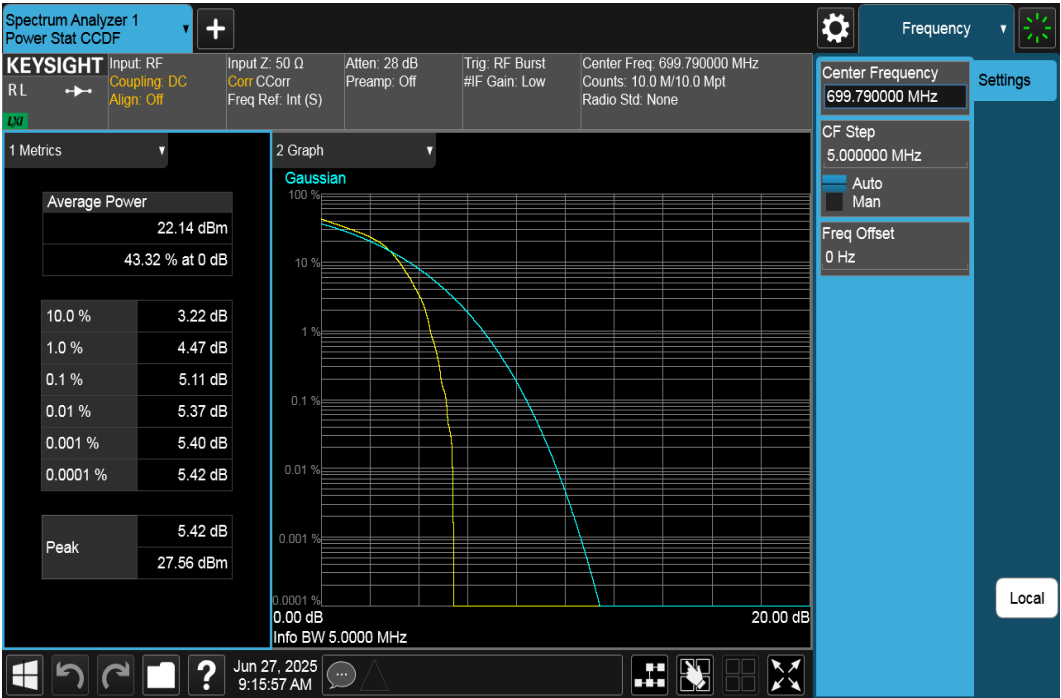
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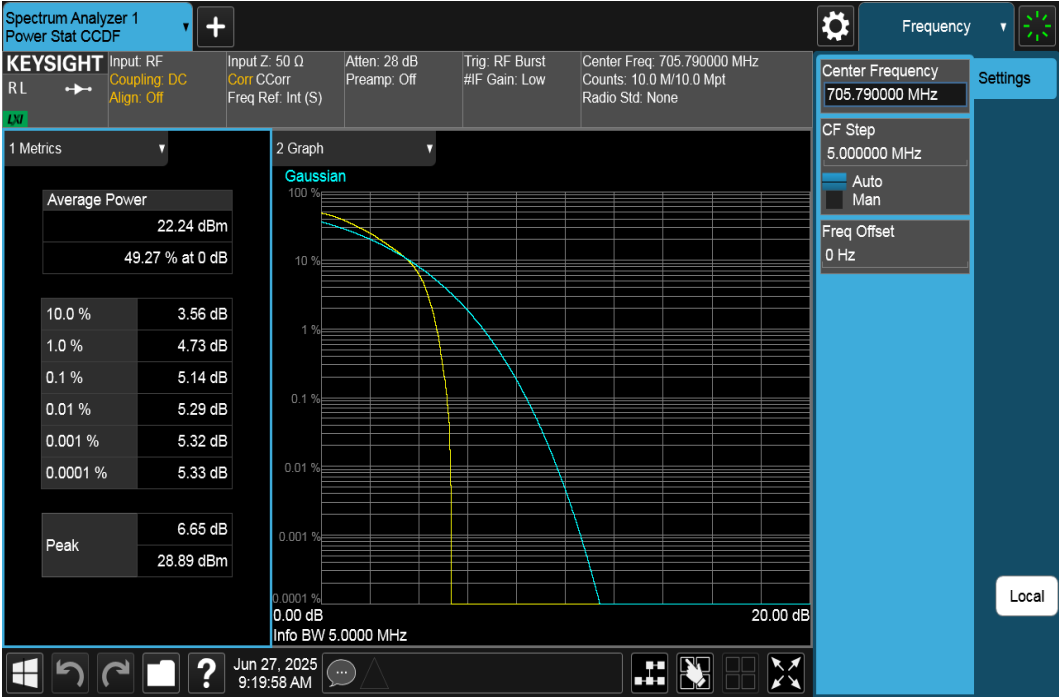
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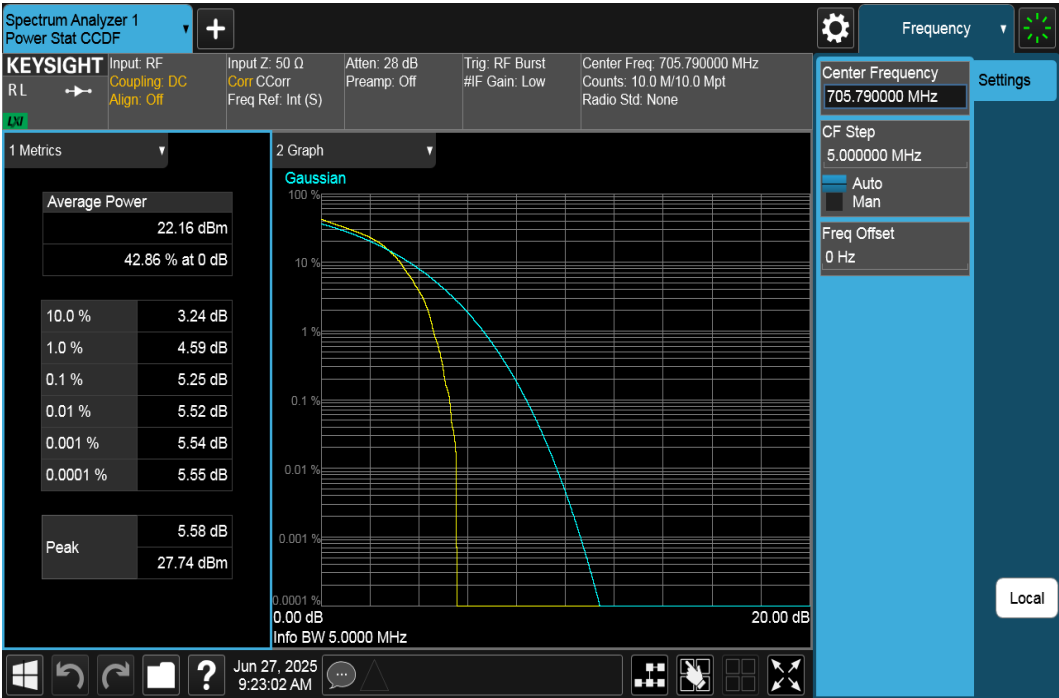
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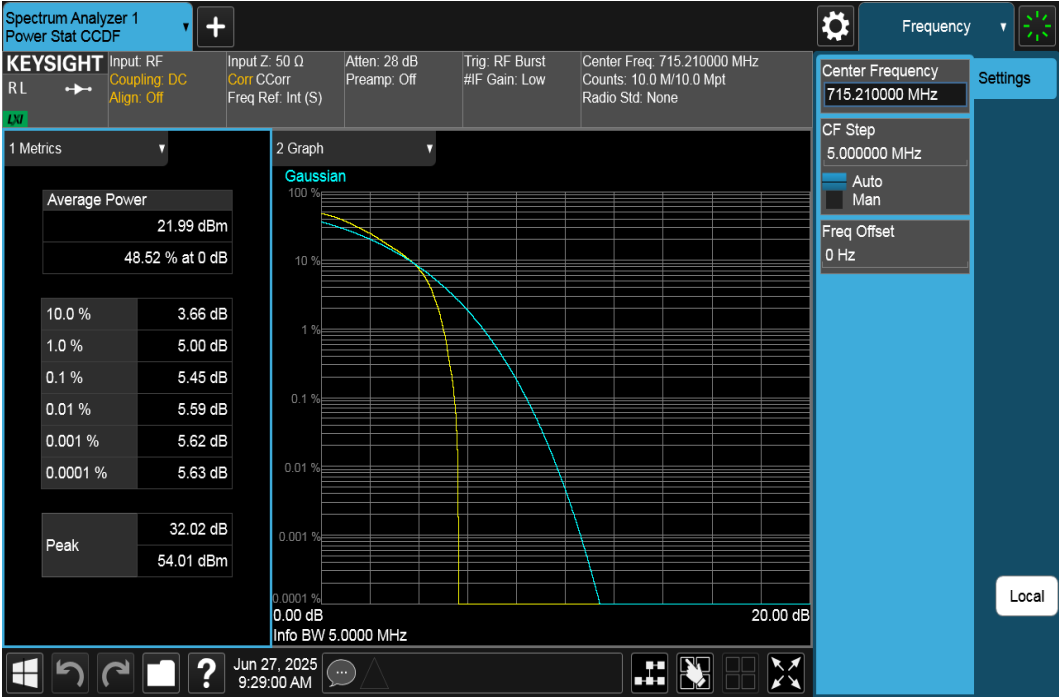
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5M_707.5MHz_CHM_16QAM_5RB_PARP



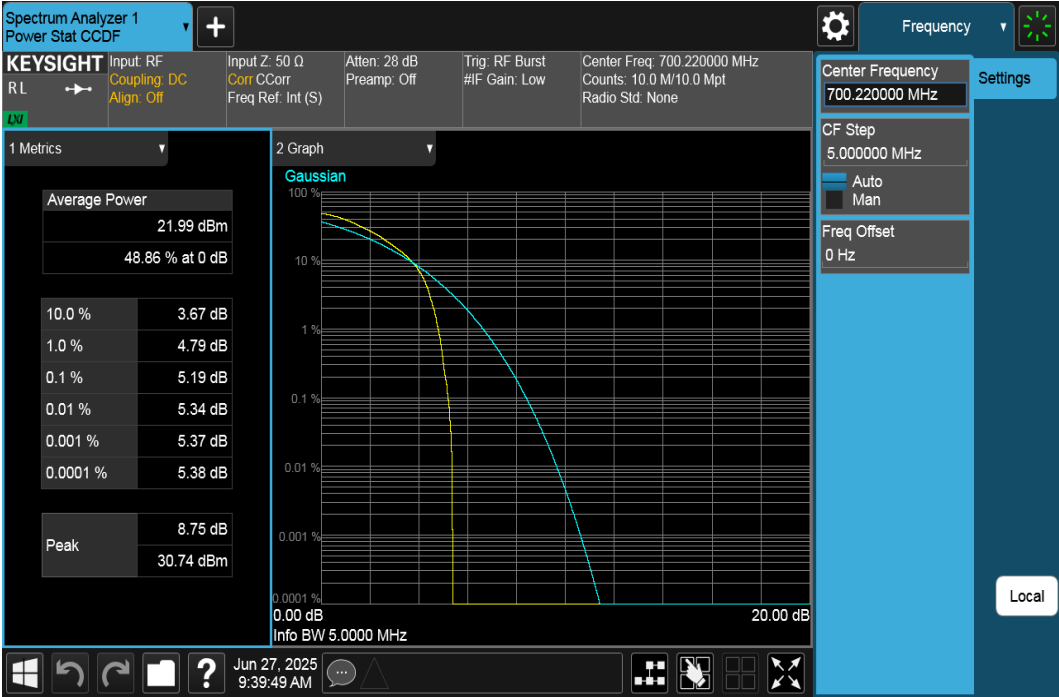
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5M_713.5MHz_CHH_16QAM_5RB_PARP



10M_704MHz_CHL_QPSK_6RB_PARP



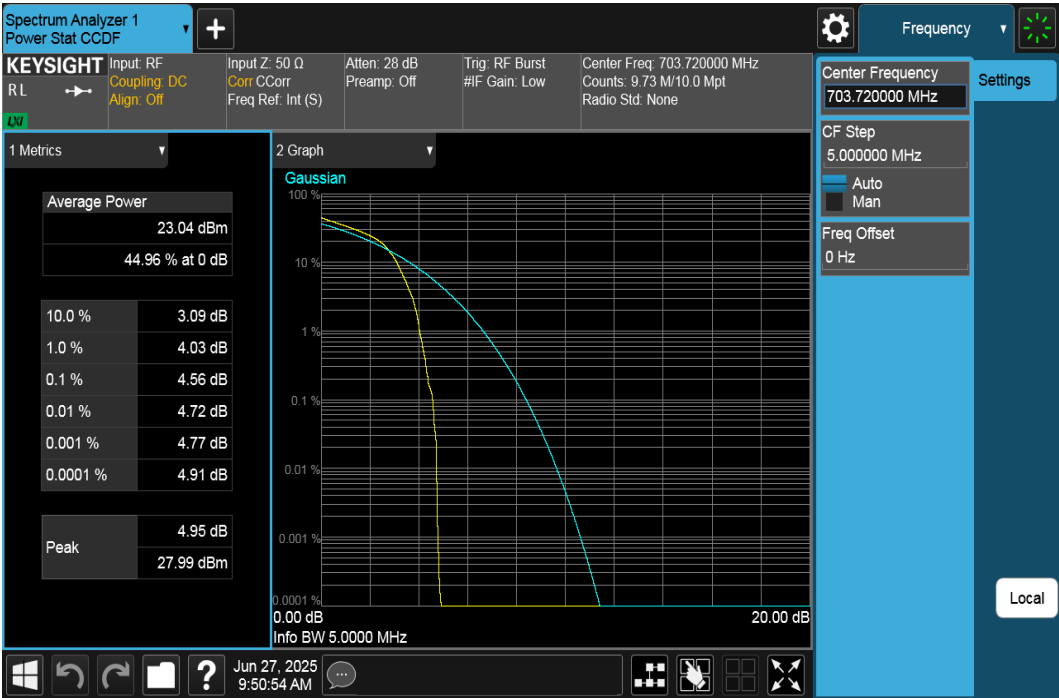
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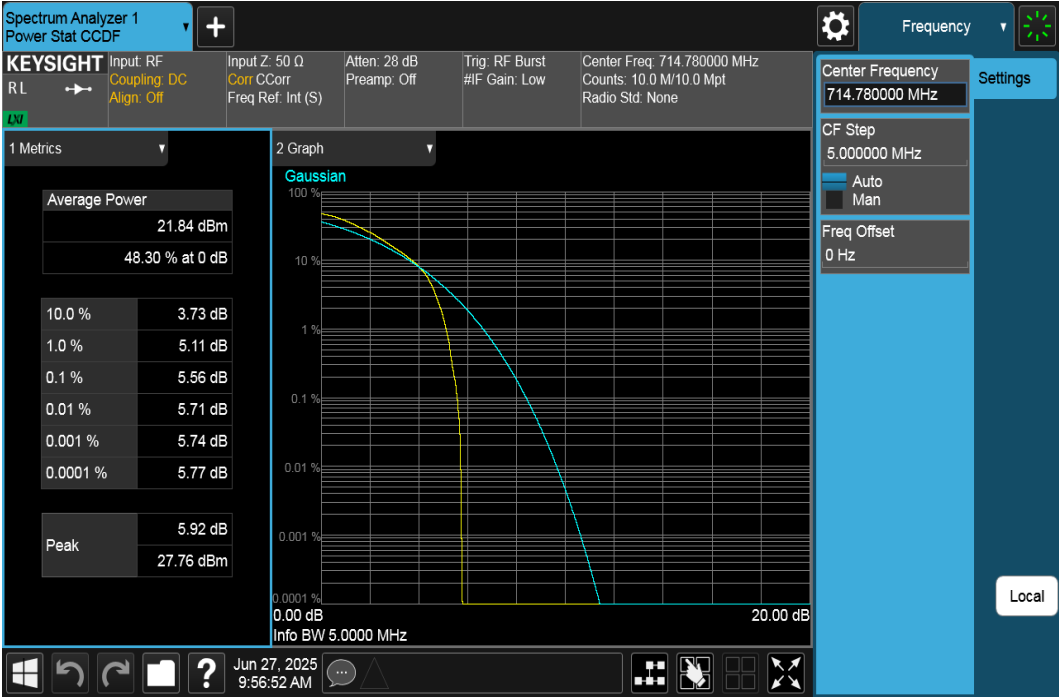
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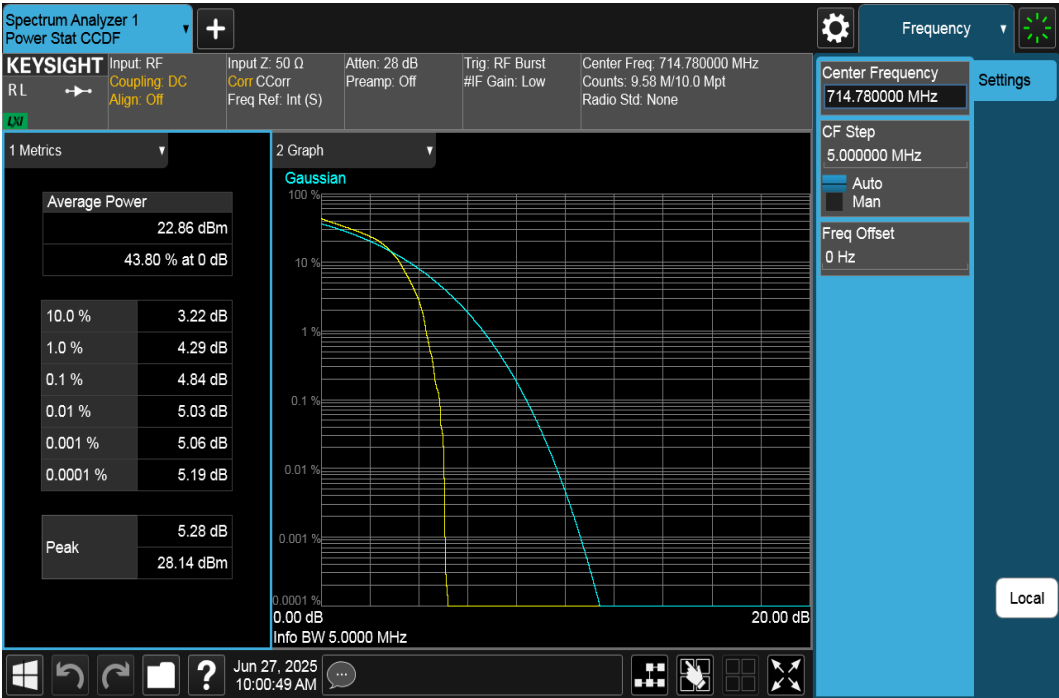
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10M_711MHz_CHH_QPSK_6RB_PARP



10M_711MHz_CHH_16QAM_5RB_PARP



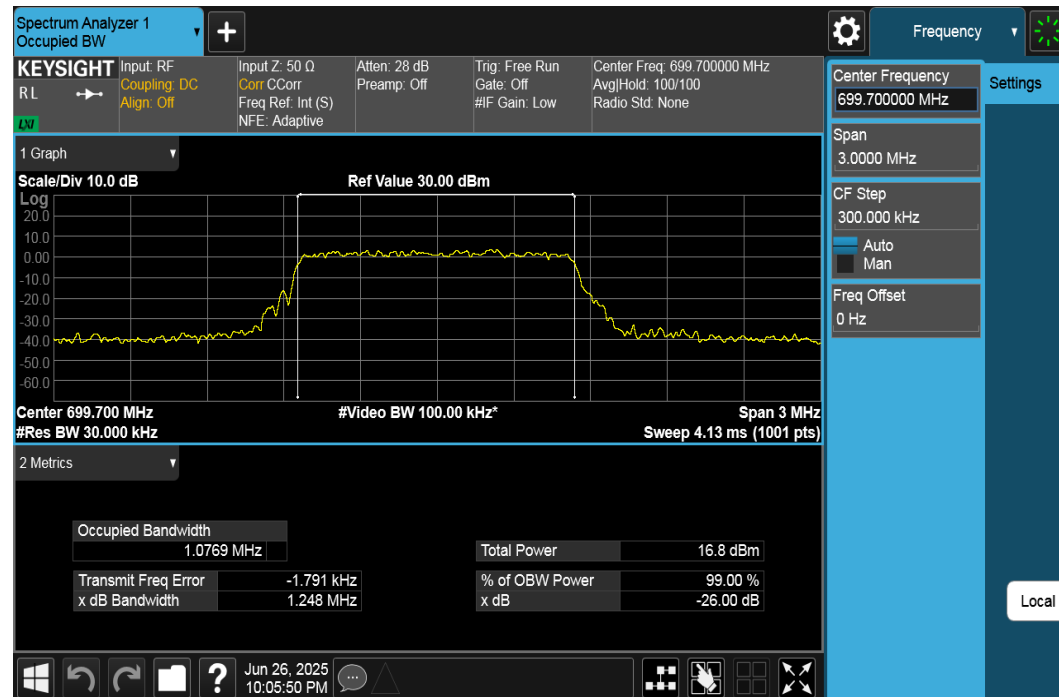
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

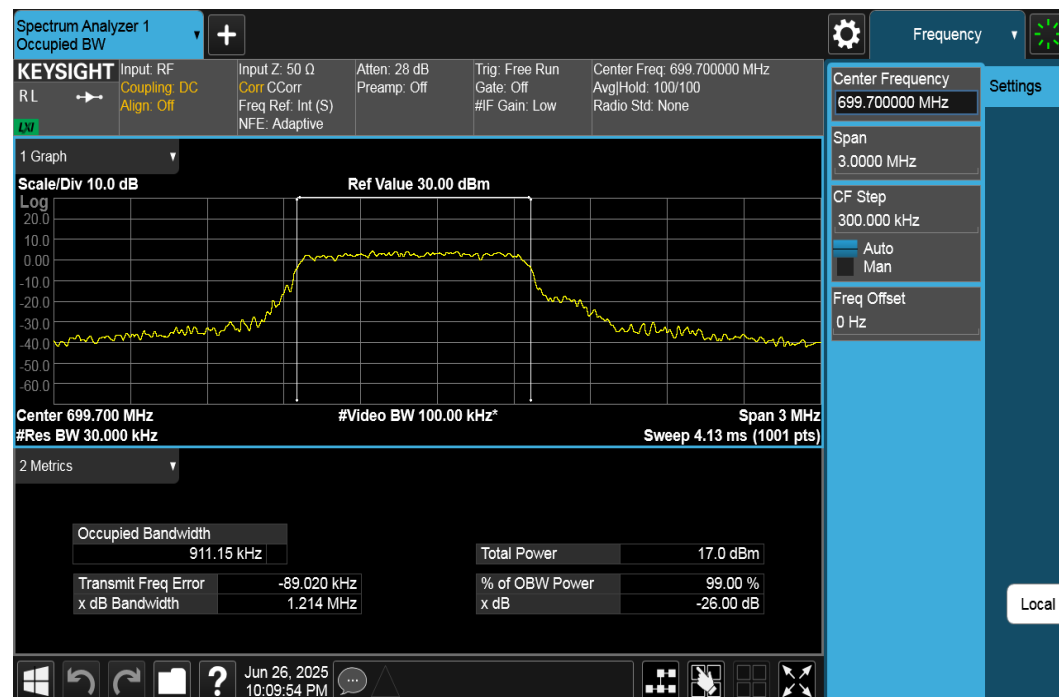
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	1.0769	1.248	PASS
Band12	1.4MHz	23017	16QAM	5	0	Low	0.0912	1.214	PASS
Band12	1.4MHz	23095	QPSK	6	0	Middle	1.0723	1.25	PASS
Band12	1.4MHz	23095	16QAM	5	0	Middle	0.0913	1.239	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.0793	1.224	PASS
Band12	1.4MHz	23173	16QAM	5	0	High	0.0908	1.207	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.0794	1.263	PASS
Band12	3MHz	23025	16QAM	5	0	Low	0.0911	1.179	PASS
Band12	3MHz	23095	QPSK	6	0	Middle	1.0733	1.24	PASS
Band12	3MHz	23095	16QAM	5	0	Middle	0.0916	1.207	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.0819	1.246	PASS
Band12	3MHz	23165	16QAM	5	0	High	0.0908	1.201	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.0693	1.214	PASS
Band12	5MHz	23035	16QAM	5	0	Low	0.9085	1.181	PASS
Band12	5MHz	23095	QPSK	6	0	Middle	1.0725	1.265	PASS
Band12	5MHz	23095	16QAM	5	0	Middle	0.0912	1.2	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.0685	1.266	PASS
Band12	5MHz	23155	16QAM	5	0	High	0.0912	1.154	PASS
Band12	10MHz	23060	QPSK	6	0	Low	1.0773	1.261	PASS
Band12	10MHz	23060	16QAM	5	0	Low	0.0908	1.173	PASS
Band12	10MHz	23095	QPSK	6	0	Middle	1.0743	1.243	PASS
Band12	10MHz	23095	16QAM	5	0	Middle	0.0911	1.202	PASS
Band12	10MHz	23130	QPSK	6	0	High	1.0781	1.242	PASS
Band12	10MHz	23130	16QAM	5	0	High	0.0909	1.226	PASS

Test Graphs

1.4M_699.7MHz_CHL_QPSK_6RB_OBW



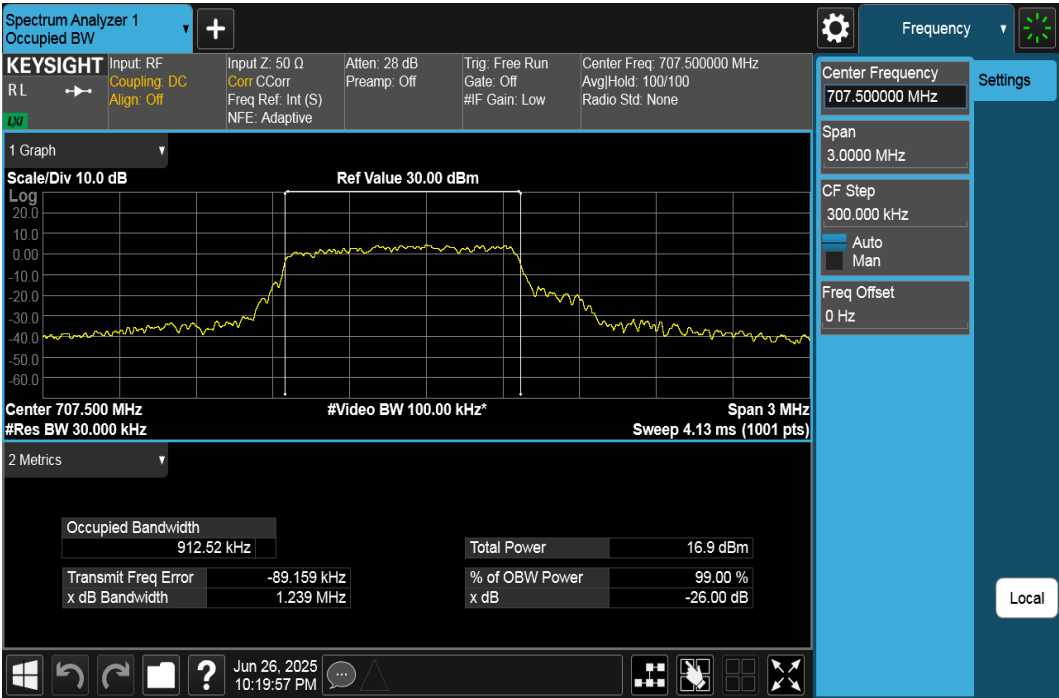
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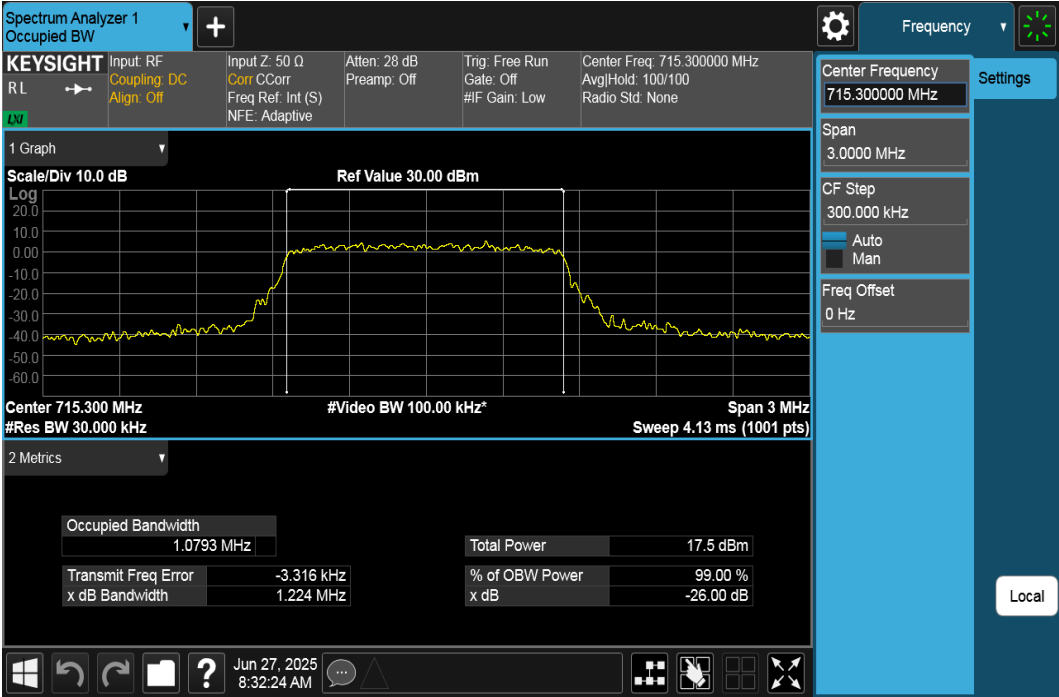
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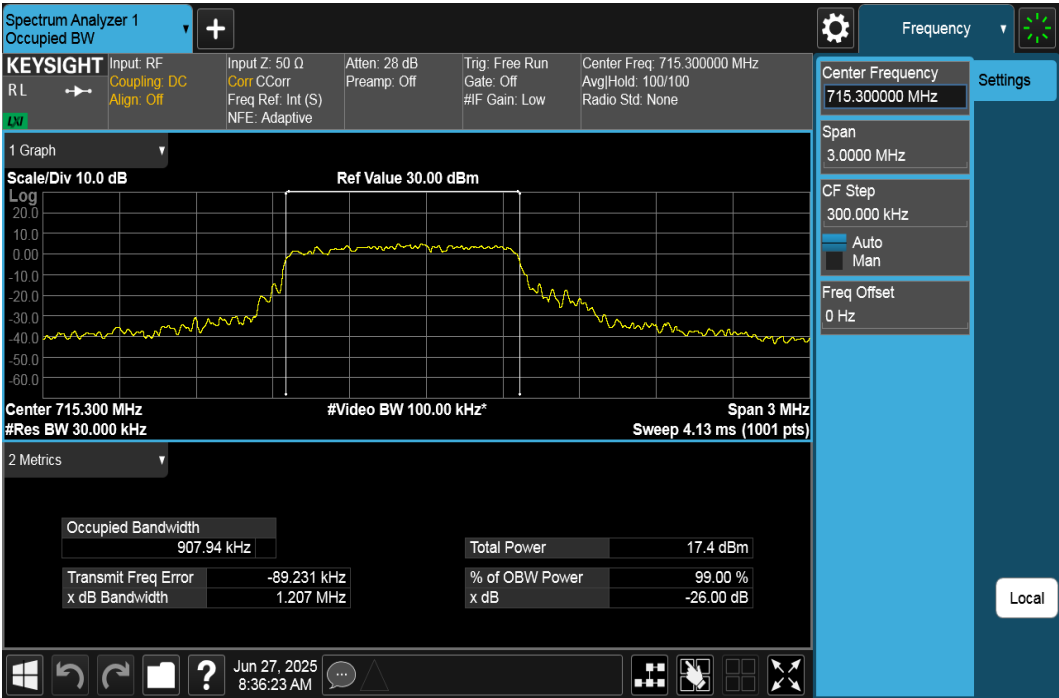
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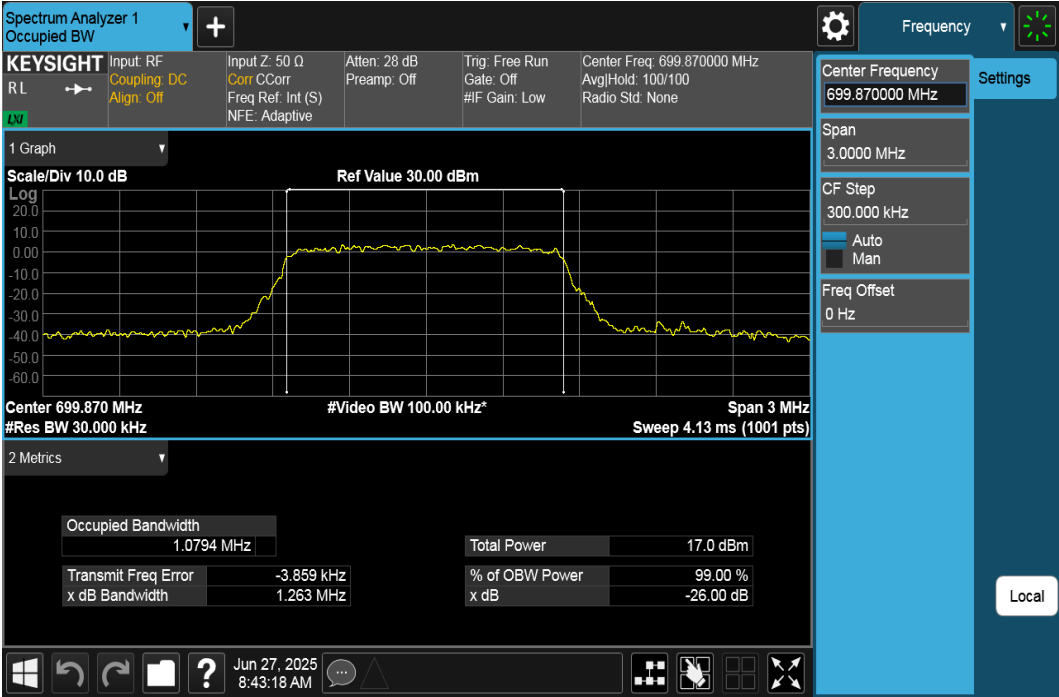
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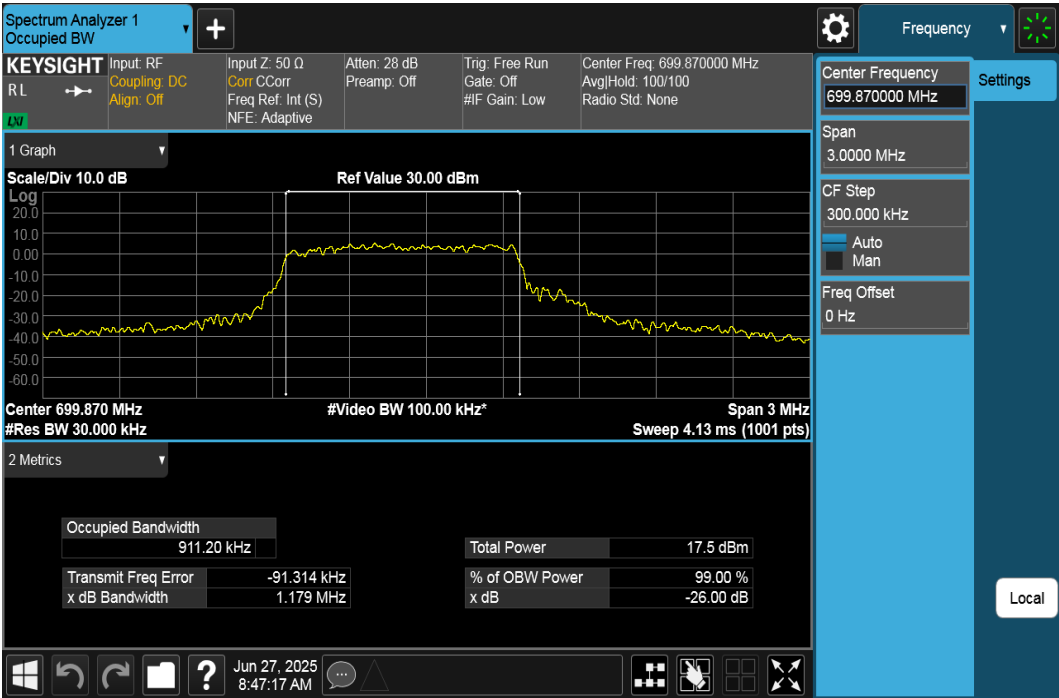
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3M_700.5MHz_CHL_QPSK_6RB_OBW



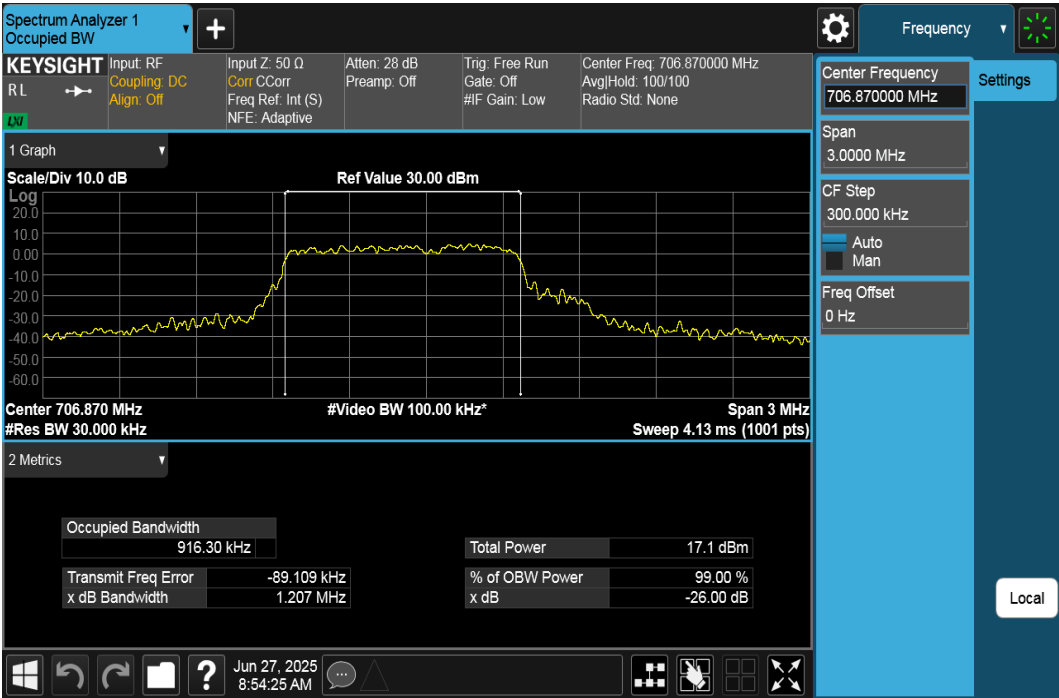
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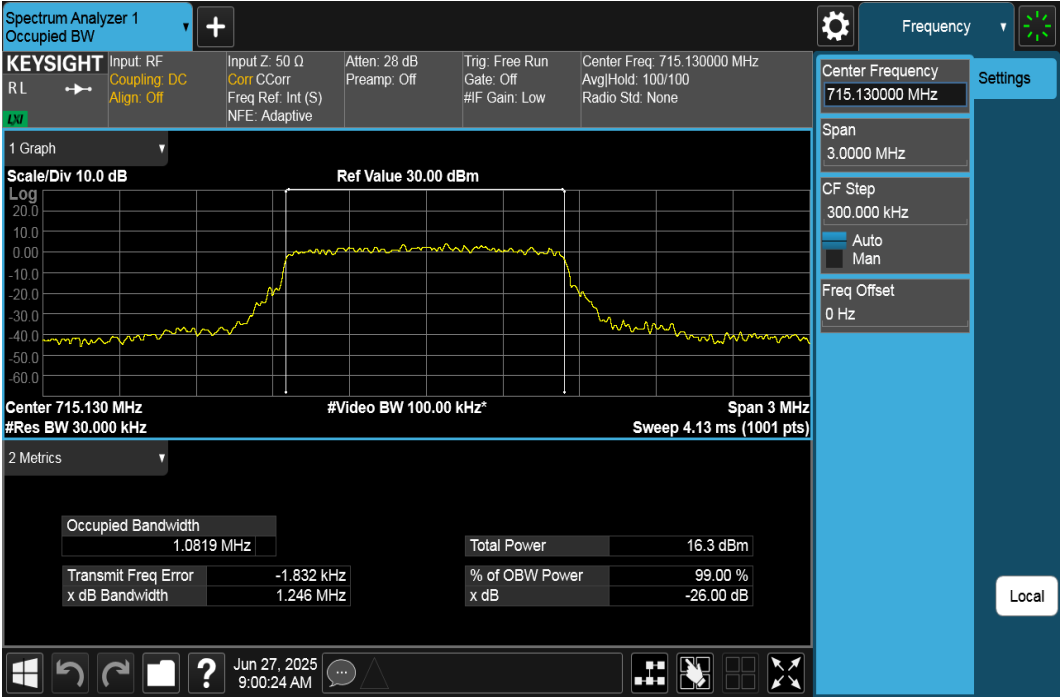
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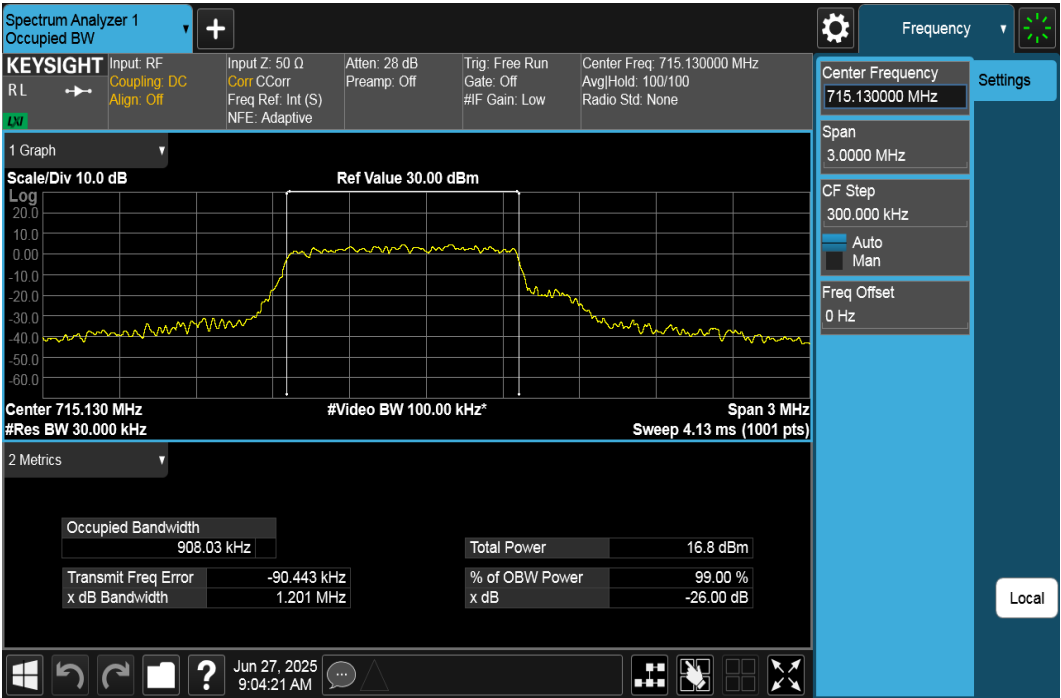
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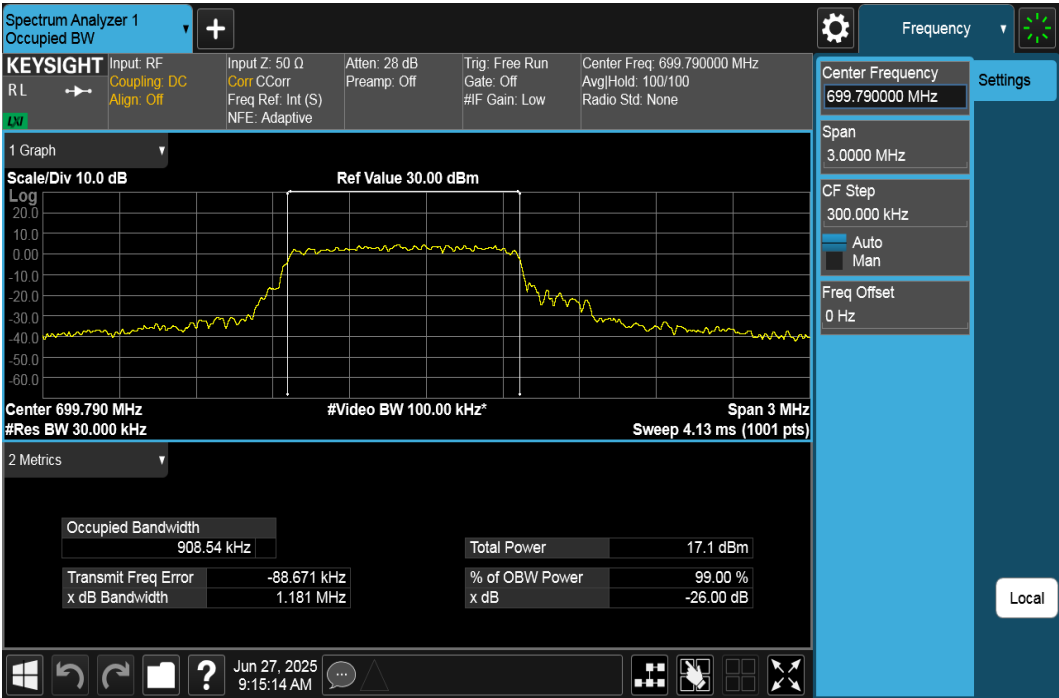
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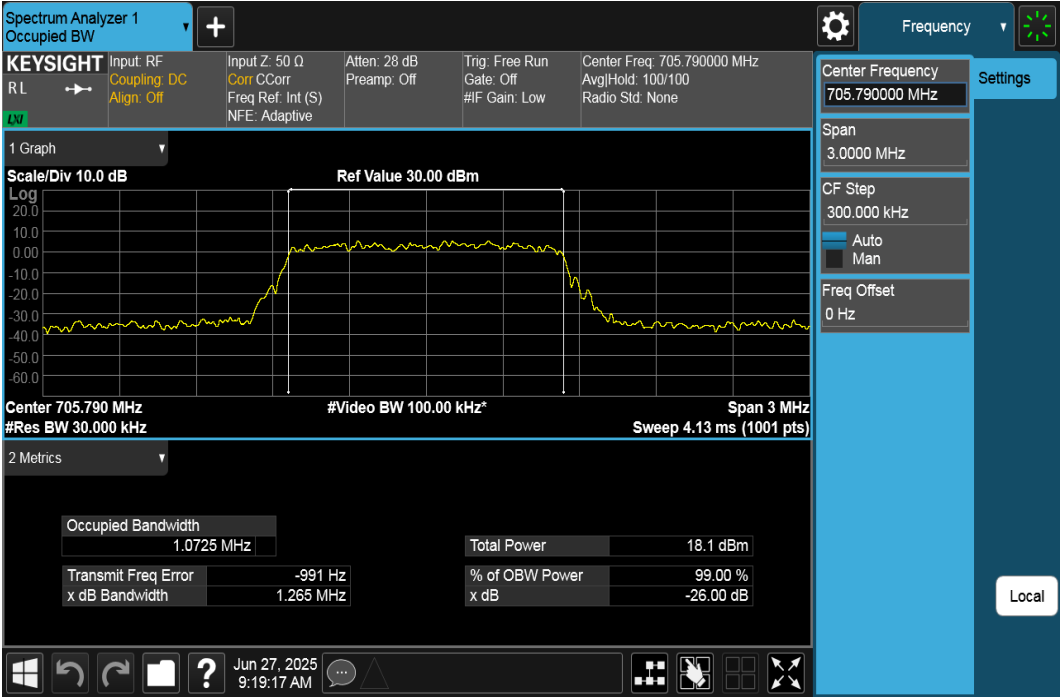
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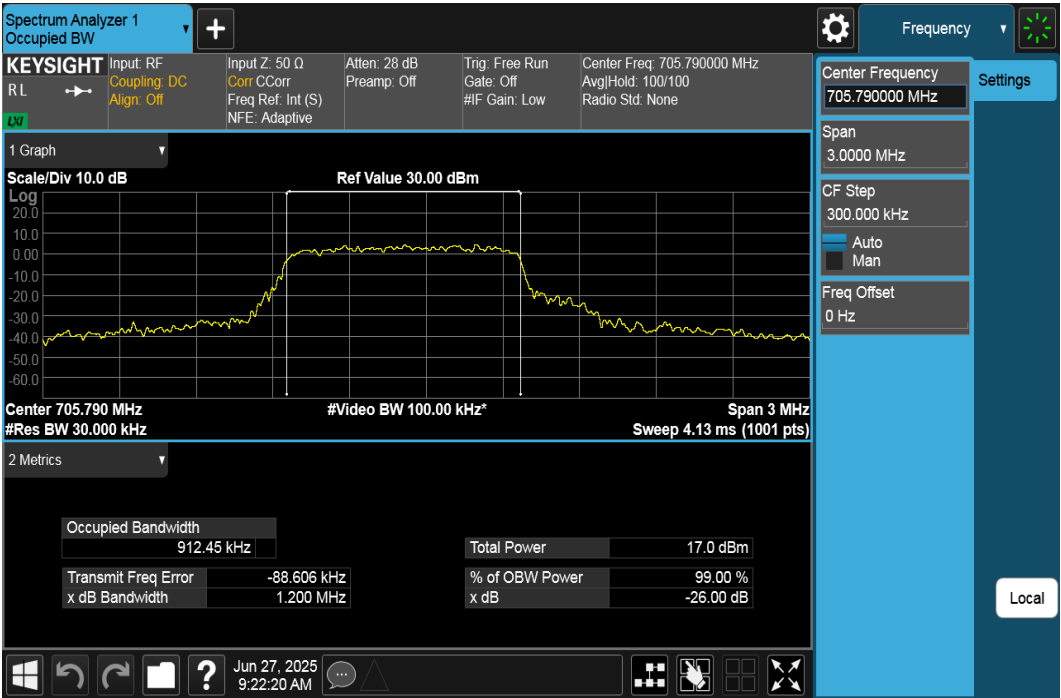
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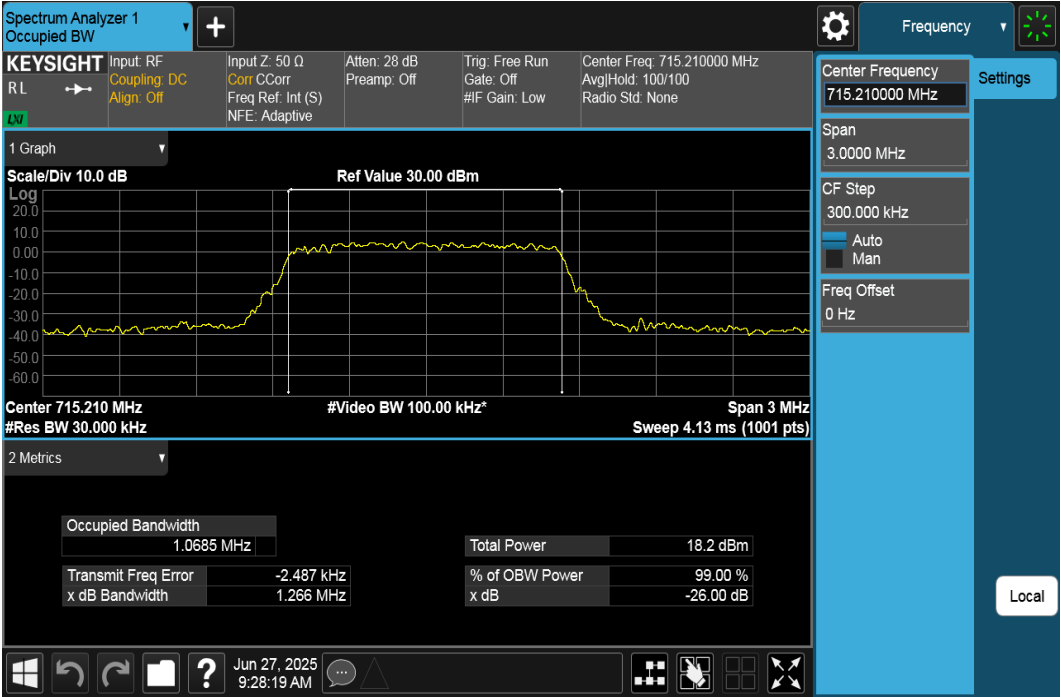
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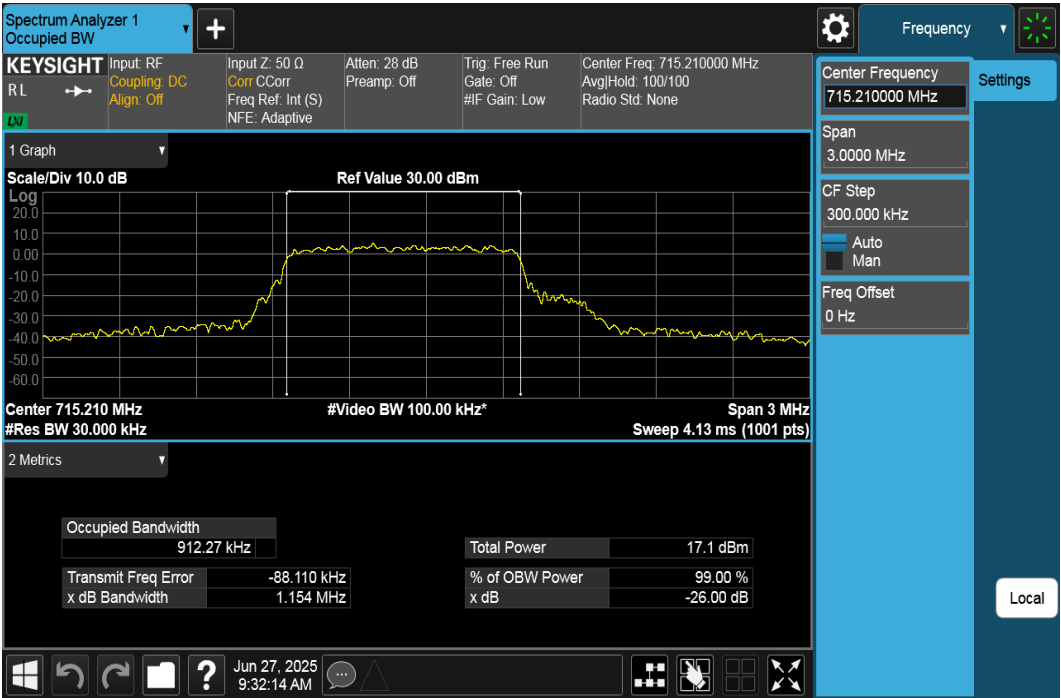
5M_707.5MHz_CHM_16QAM_5RB_OBW



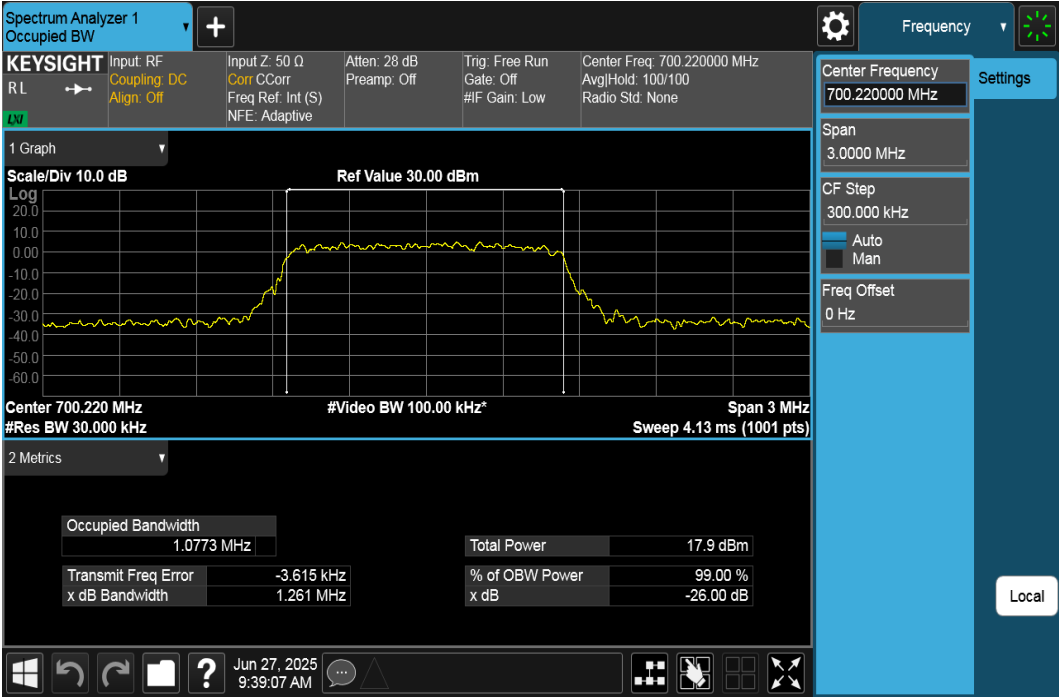
5M_713.5MHz_CHH_QPSK_6RB_OBW



5M_713.5MHz_CHH_16QAM_5RB_OBW



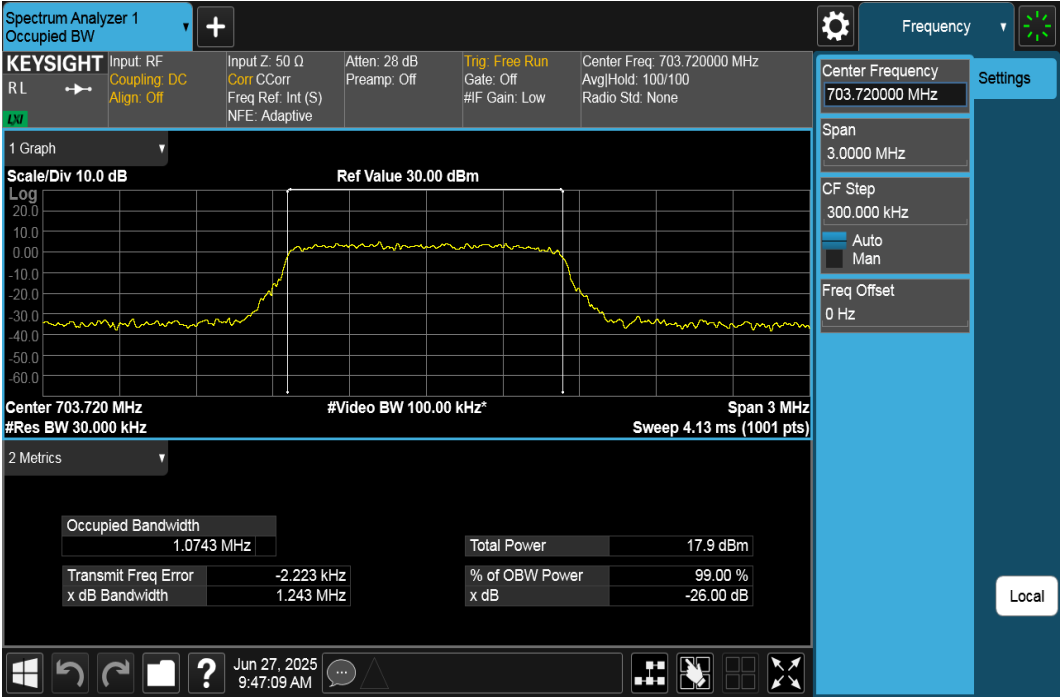
10M_704MHz_CHL_QPSK_6RB_OBW



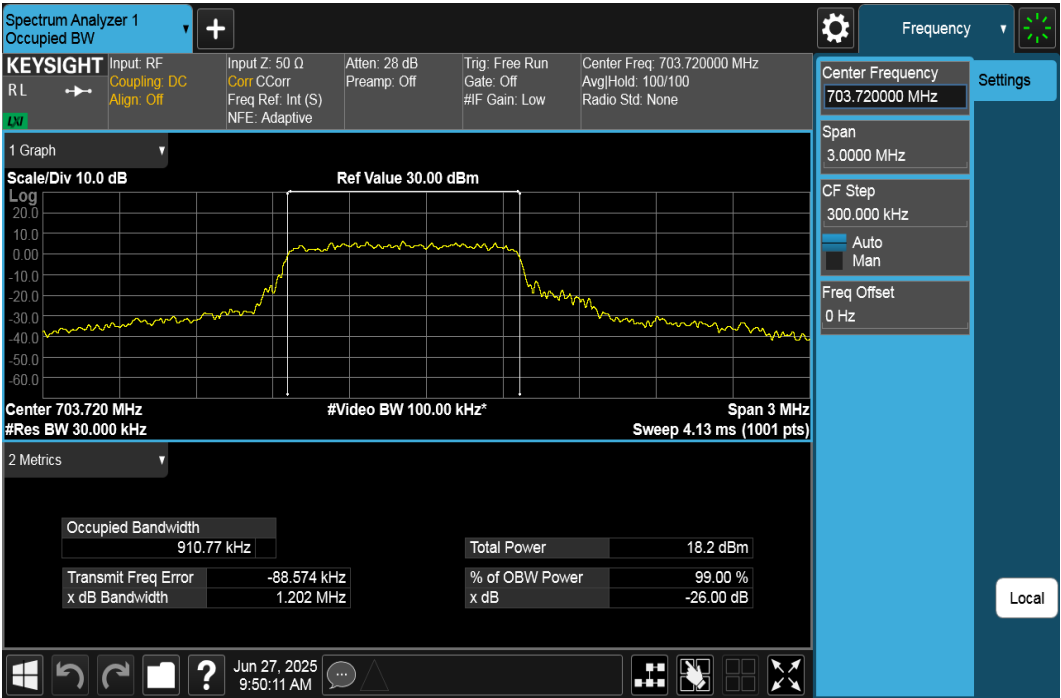
10M_704MHz_CHL_16QAM_5RB_OBW



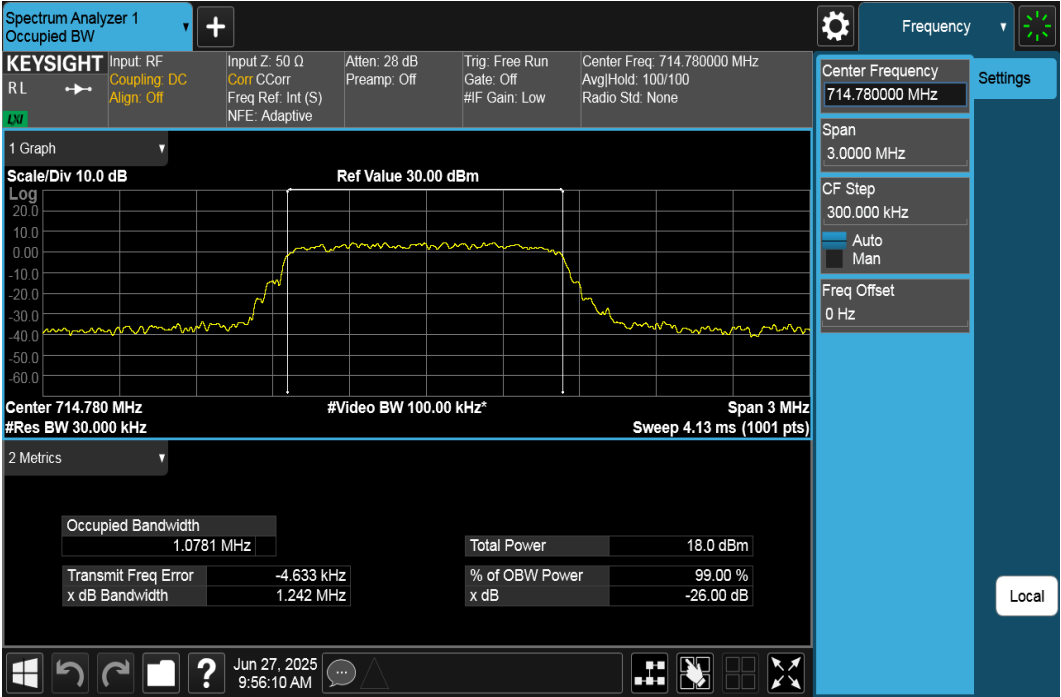
10M_707.5MHz_CHM_QPSK_6RB_OBW



10M_707.5MHz_CHM_16QAM_5RB_OBW



10M_711MHz_CHH_QPSK_6RB_OBW



10M_711MHz_CHH_16QAM_5RB_OBW



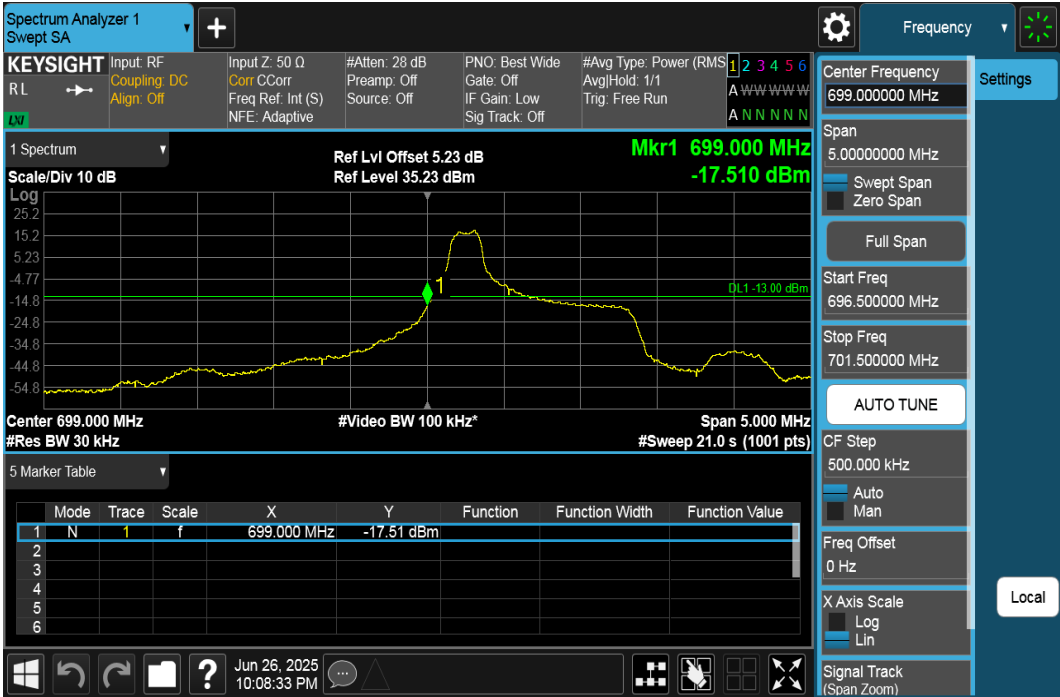
Appendix D: Band Edge

Test Result

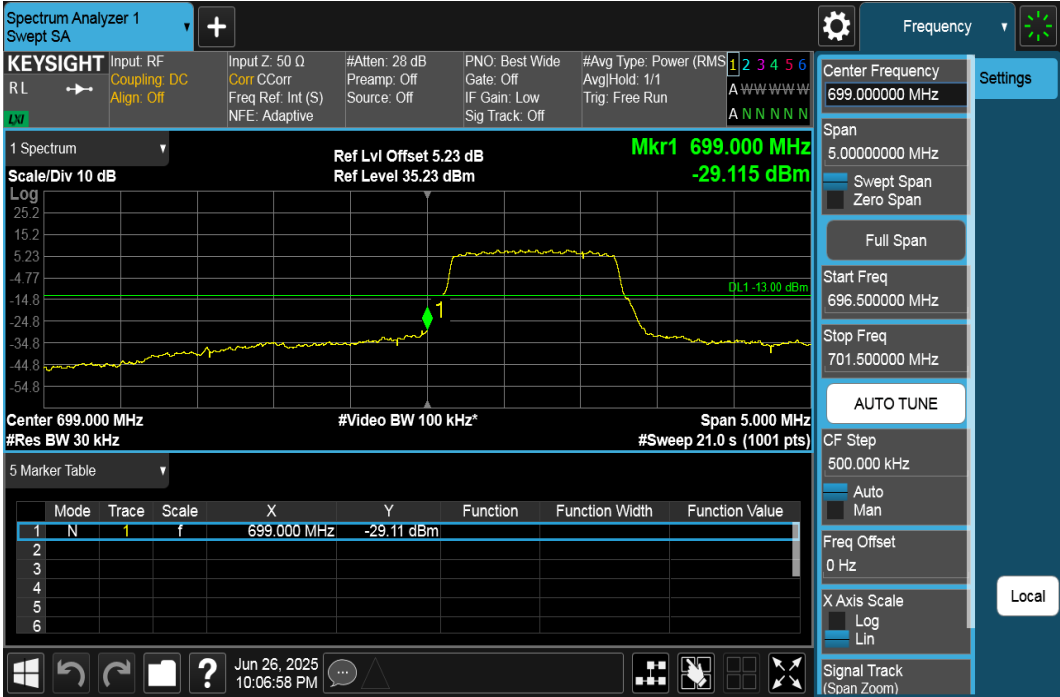
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band12	1.4MHz	699.7	QPSK	1	0	Low	-17.510	PASS
Band12	1.4MHz	699.7	QPSK	6	0	Low	-29.115	PASS
Band12	1.4MHz	699.7	16QAM	1	0	High	-22.515	PASS
Band12	1.4MHz	699.7	16QAM	5	0	High	-26.039	PASS
Band12	1.4MHz	715.3	QPSK	1	0	Low	-17.469	PASS
Band12	1.4MHz	715.3	QPSK	6	0	Low	-27.221	PASS
Band12	1.4MHz	715.3	16QAM	1	0	High	-21.975	PASS
Band12	1.4MHz	715.3	16QAM	5	0	High	-26.924	PASS
Band12	3MHz	700.5	QPSK	1	0	Low	-29.333	PASS
Band12	3MHz	700.5	QPSK	6	0	Low	-32.491	PASS
Band12	3MHz	700.5	16QAM	1	0	High	-32.473	PASS
Band12	3MHz	700.5	16QAM	5	0	High	-27.500	PASS
Band12	3MHz	714.5	QPSK	1	0	Low	-32.282	PASS
Band12	3MHz	714.5	QPSK	6	0	Low	-32.326	PASS
Band12	3MHz	714.5	16QAM	1	0	High	-33.090	PASS
Band12	3MHz	714.5	16QAM	5	0	High	-29.401	PASS
Band12	5MHz	701.5	QPSK	1	0	Low	-26.335	PASS
Band12	5MHz	701.5	QPSK	6	0	Low	-28.102	PASS
Band12	5MHz	701.5	16QAM	1	0	High	-24.345	PASS
Band12	5MHz	701.5	16QAM	5	0	High	-27.390	PASS
Band12	5MHz	713.5	QPSK	1	0	Low	-27.813	PASS
Band12	5MHz	713.5	QPSK	6	0	Low	-30.554	PASS
Band12	5MHz	713.5	16QAM	1	0	High	-25.217	PASS
Band12	5MHz	713.5	16QAM	5	0	High	-31.458	PASS
Band12	10MHz	704	QPSK	1	0	Low	-41.702	PASS
Band12	10MHz	704	QPSK	6	0	Low	-30.310	PASS
Band12	10MHz	704	16QAM	1	0	High	-39.133	PASS
Band12	10MHz	704	16QAM	5	0	High	-30.111	PASS
Band12	10MHz	711	QPSK	1	0	Low	-42.396	PASS
Band12	10MHz	711	QPSK	6	0	Low	-32.420	PASS
Band12	10MHz	711	16QAM	1	0	High	-42.630	PASS
Band12	10MHz	711	16QAM	5	0	High	-31.249	PASS

Test Graphs

1.4M_699.7MHz_CHL_QPSK_1RB_BE



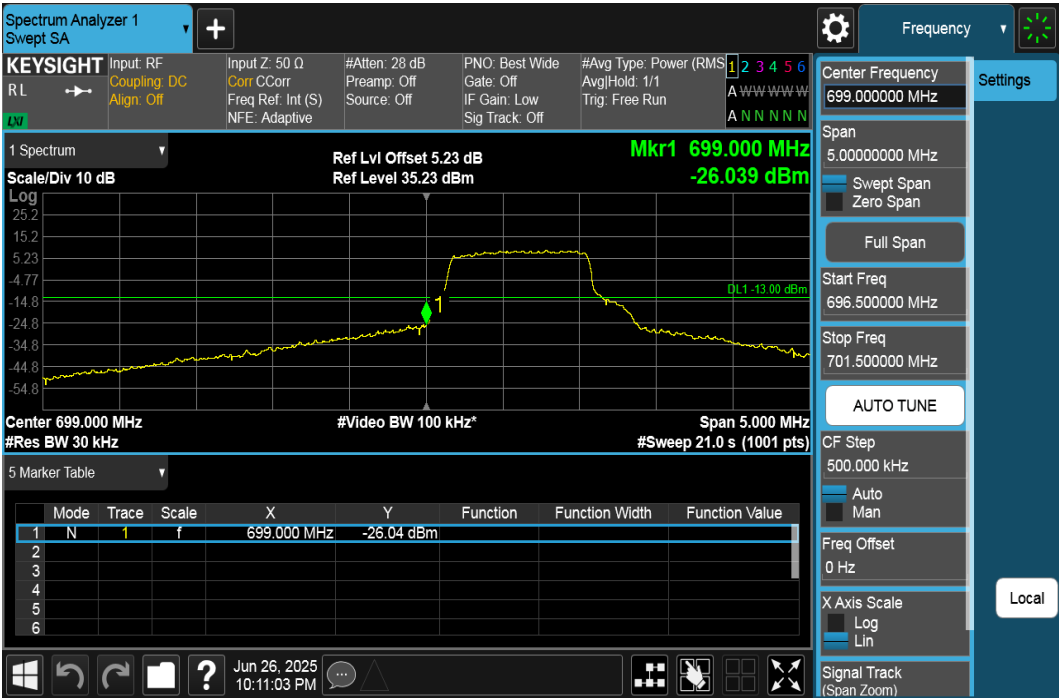
1.4M_699.7MHz_CHL_QPSK_6RB_BE



1.4M_699.7MHz_CHL_16QAM_1RB_BE



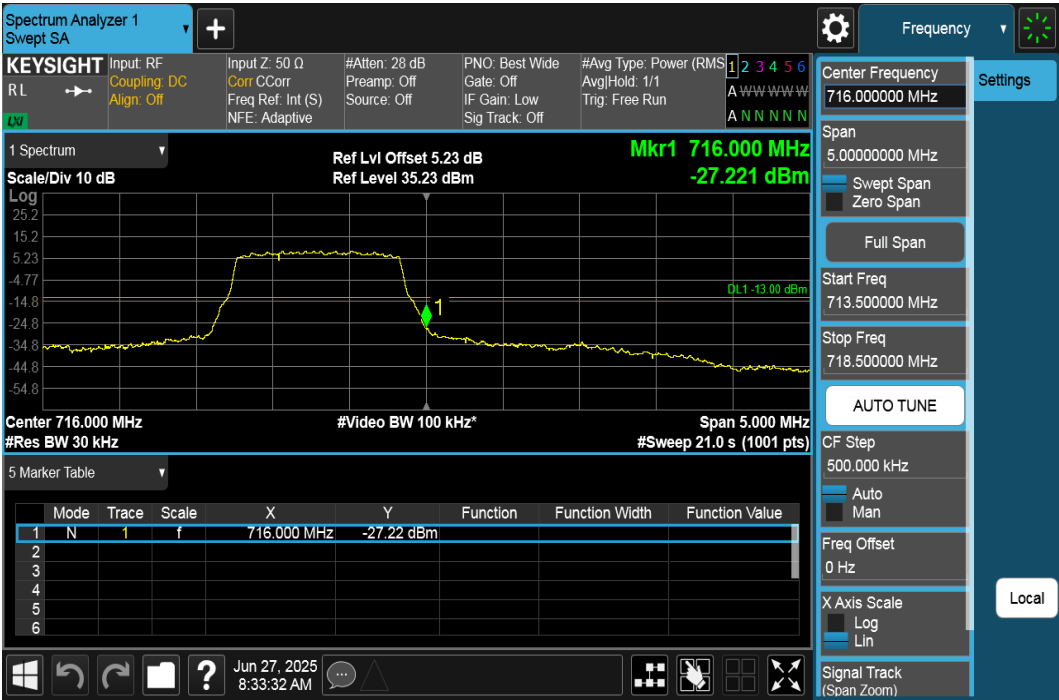
1.4M_699.7MHz_CHL_16QAM_5RB_BE



1.4M_715.3MHz_CHH_QPSK_1RB_BE



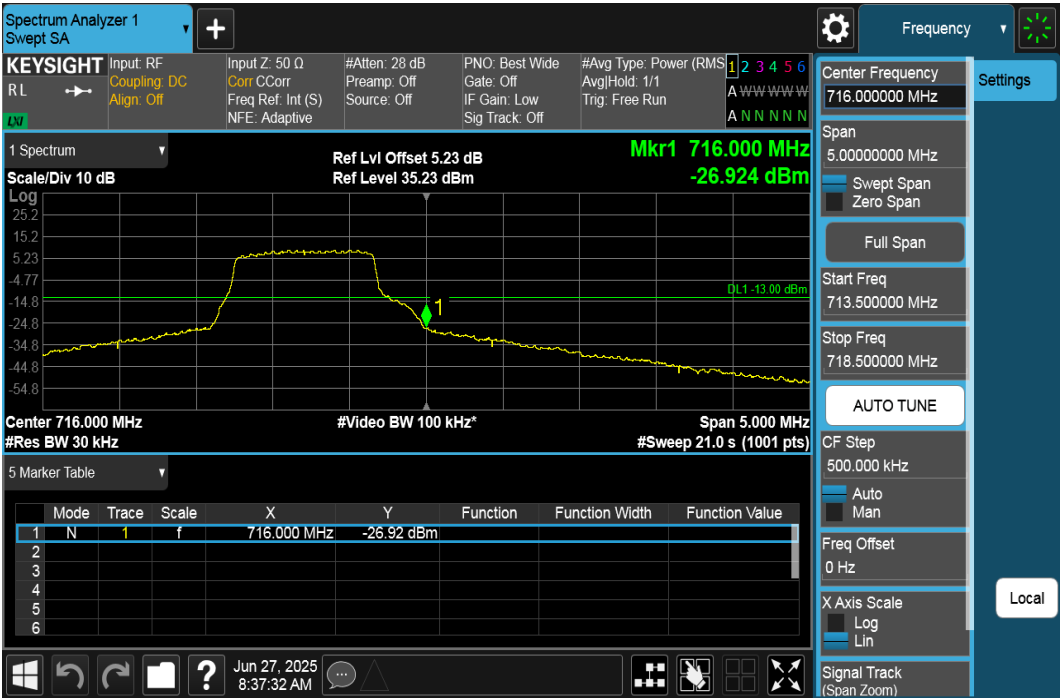
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1.4M_715.3MHz_CHH_16QAM_1RB_BE



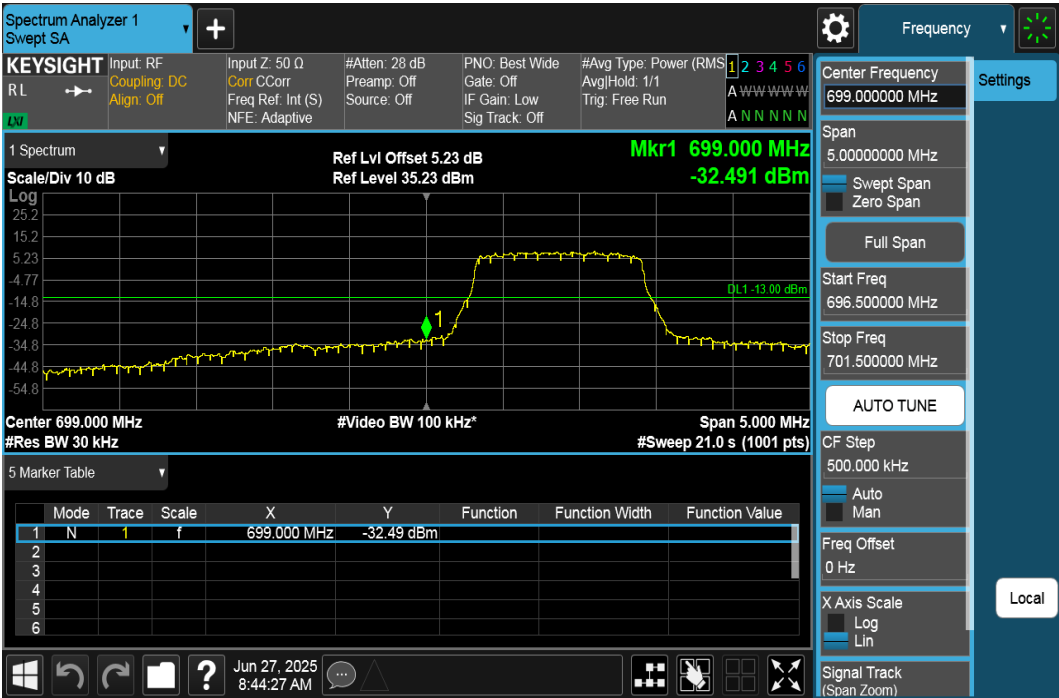
1.4M_715.3MHz_CHH_16QAM_5RB_BE



3M_700.5MHz_CHL_QPSK_1RB_BE



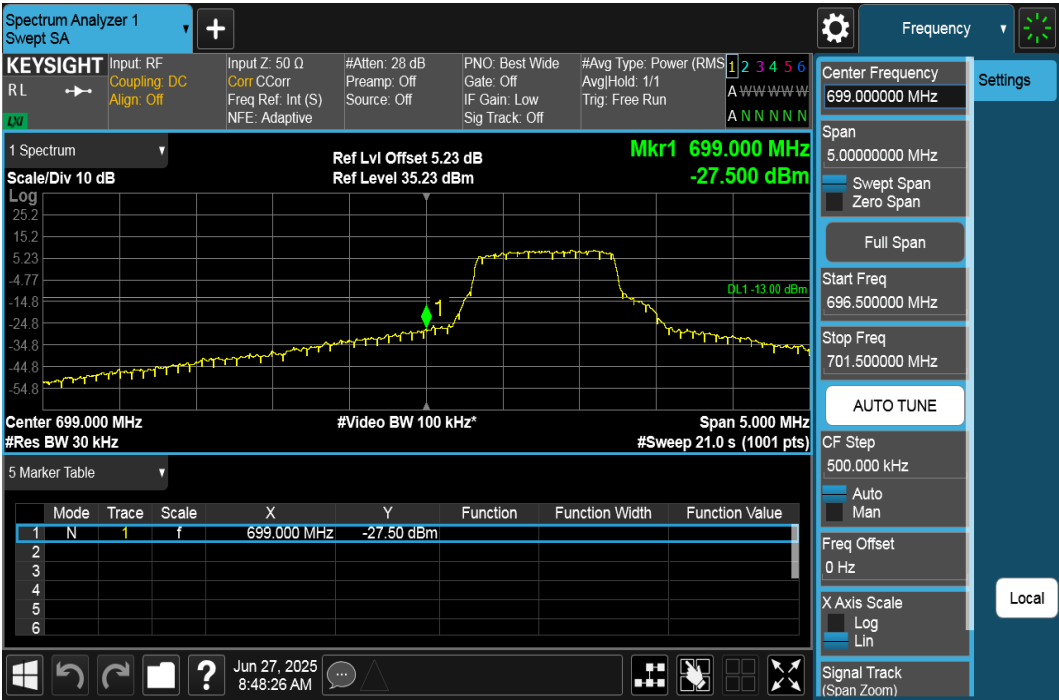
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3M_700.5MHz_CHL_16QAM_1RB_BE



3M_700.5MHz_CHL_16QAM_5RB_BE



3M_714.5MHz_CHH_QPSK_1RB_BE



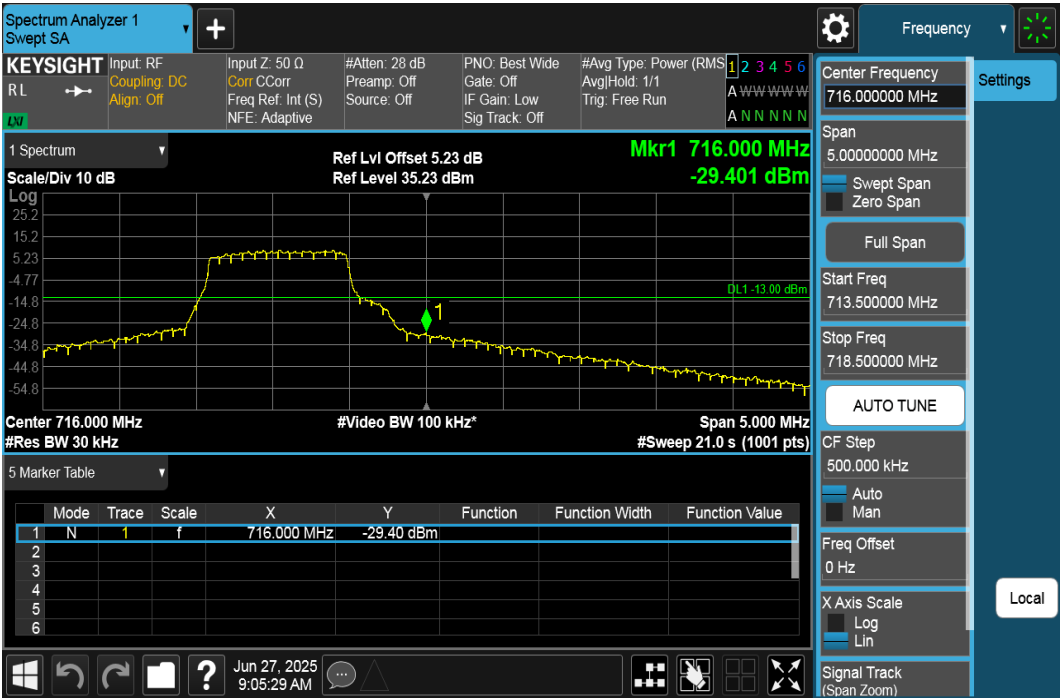
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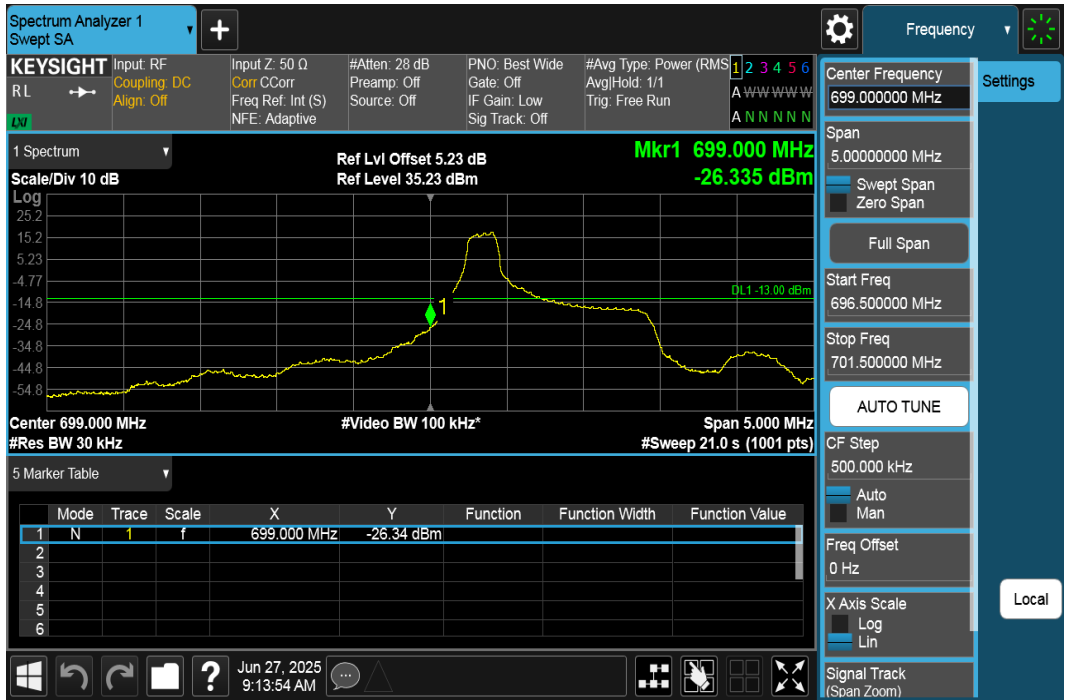
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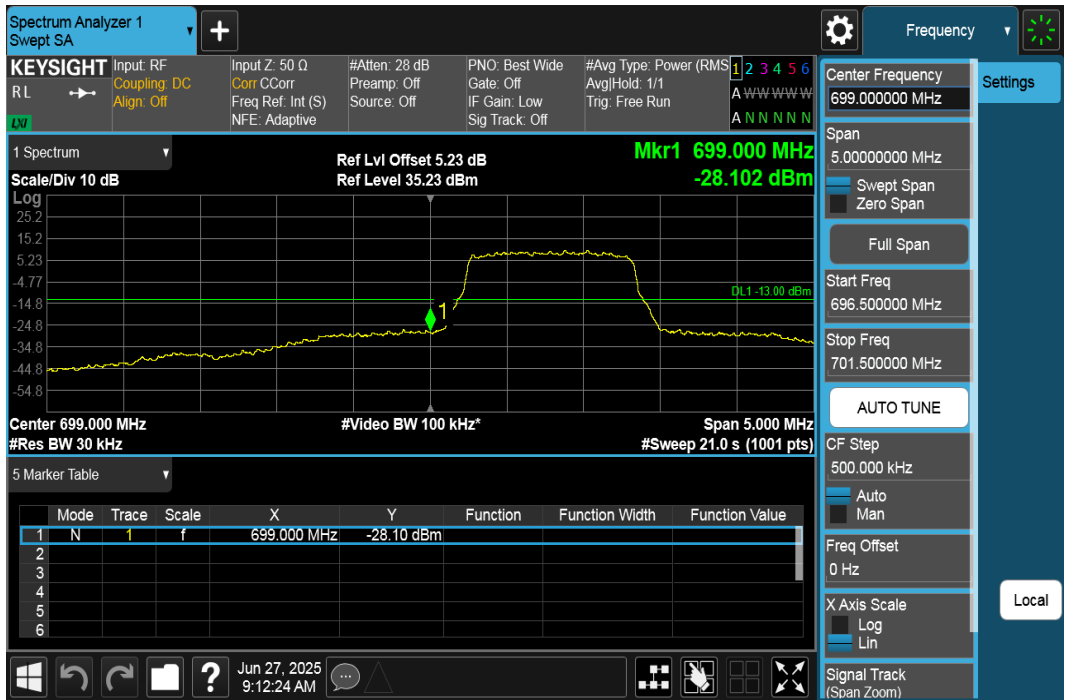
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5M_701.5MHz_CHL_QPSK_1RB_BE



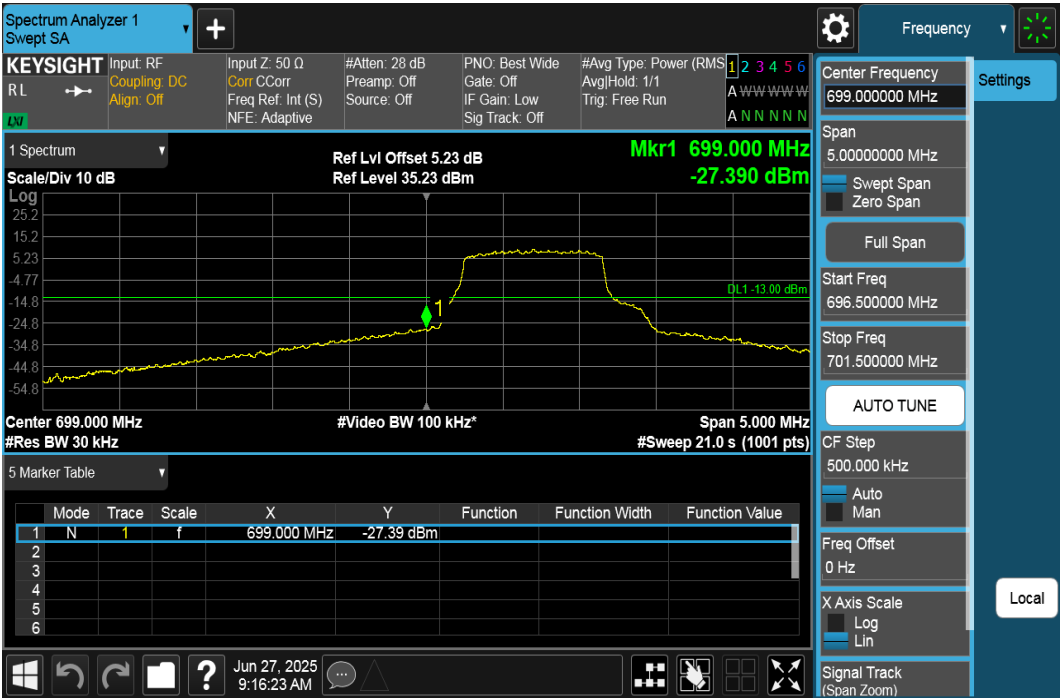
5M_701.5MHz_CHL_QPSK_6RB_BE



5M_701.5MHz_CHL_16QAM_1RB_BE



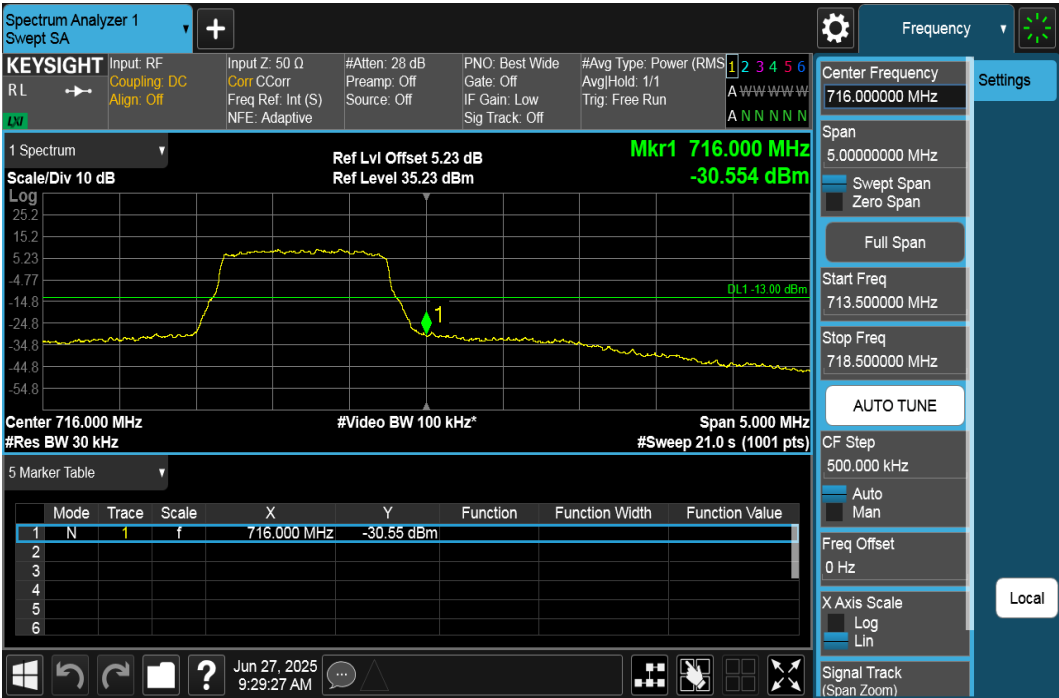
5M_701.5MHz_CHL_16QAM_5RB_BE



5M_713.5MHz_CHH_QPSK_1RB_BE



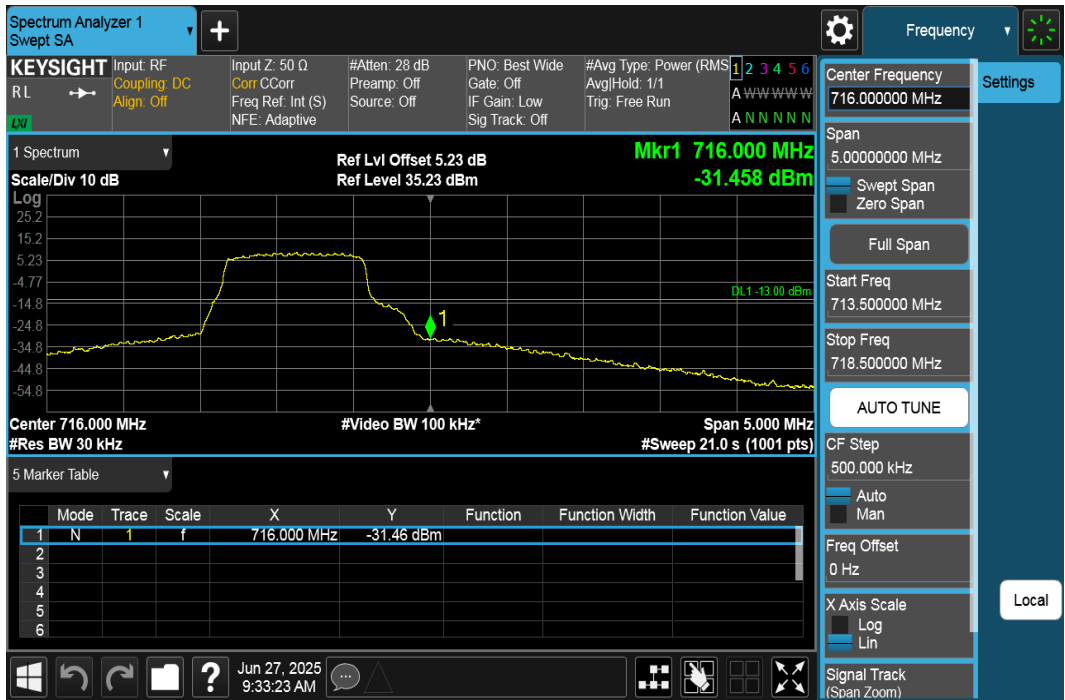
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5M_713.5MHz_CHH_16QAM_1RB_BE



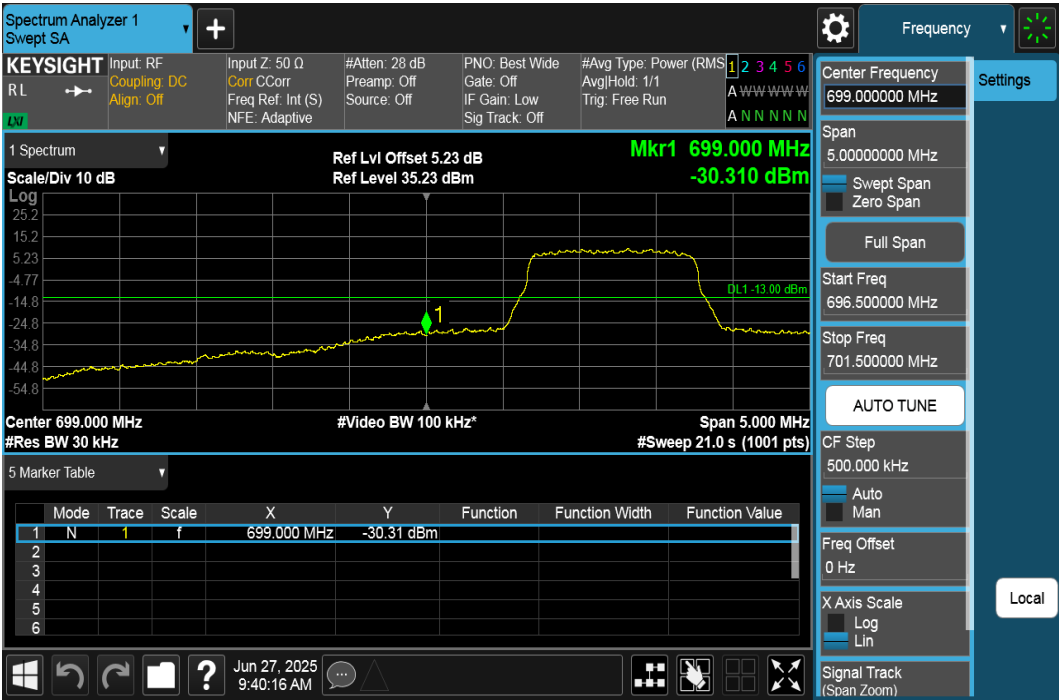
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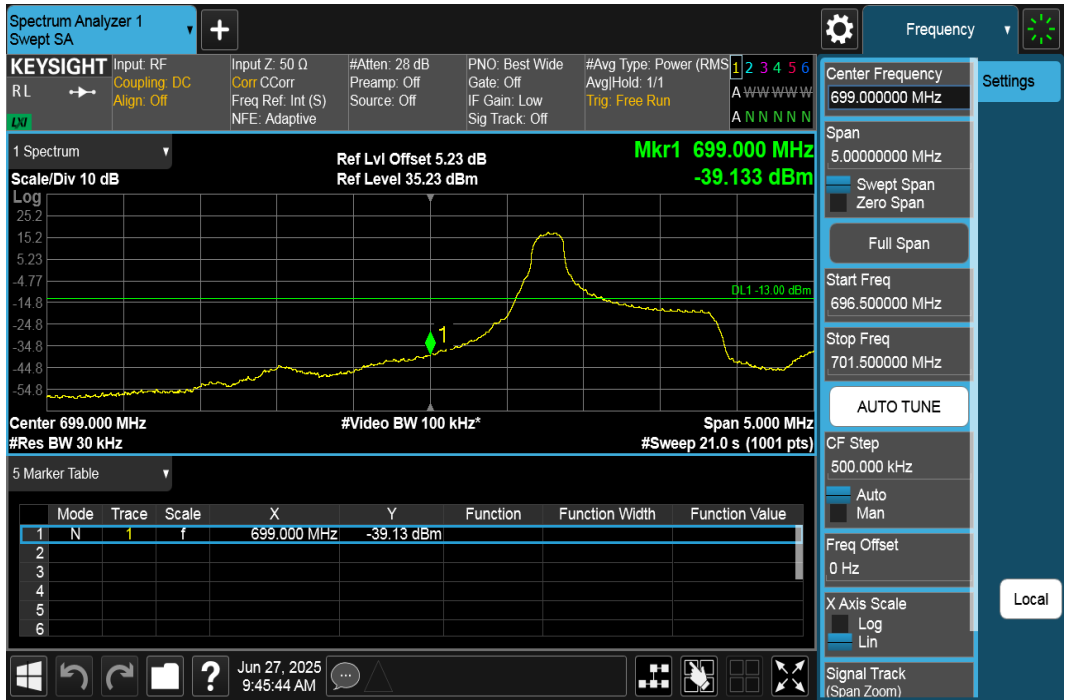
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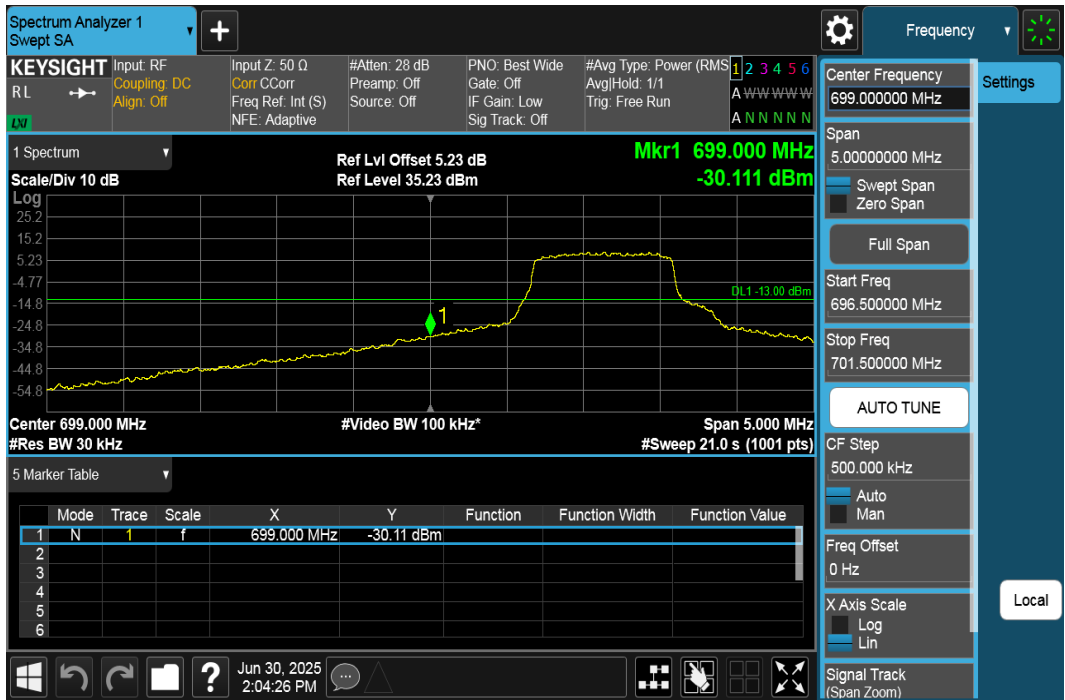
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10M_704MHz_CHL_16QAM_1RB_BE



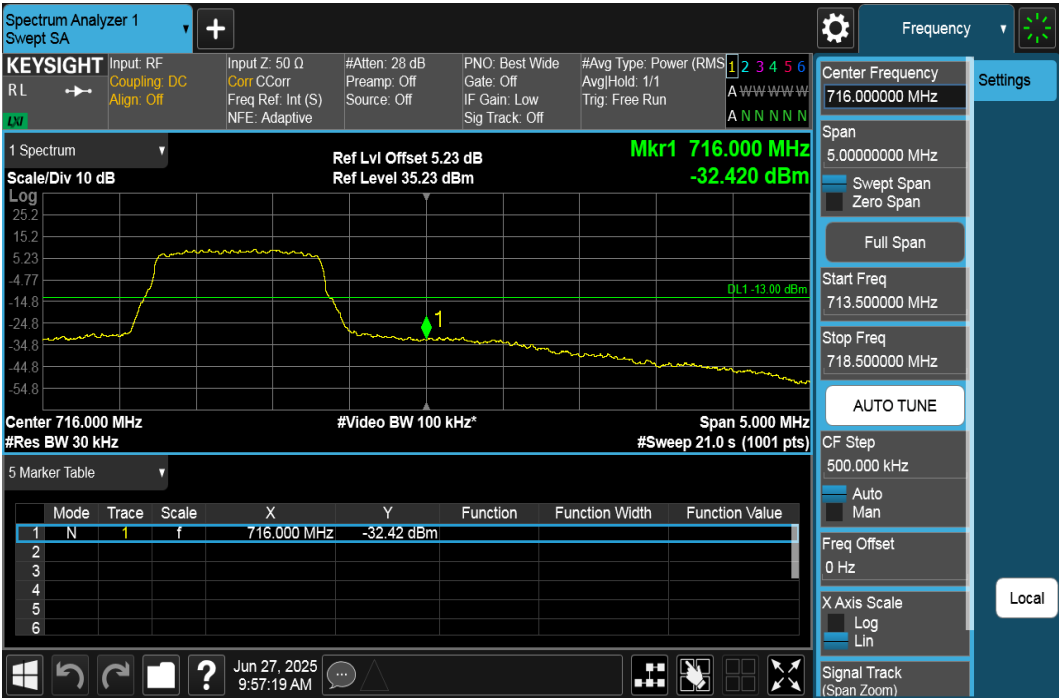
10M_704MHz_CHL_16QAM_5RB_BE



10M_711MHz_CHH_QPSK_1RB_BE



10M_711MHz_CHH_QPSK_6RB_BE



10M_711MHz_CHH_16QAM_1RB_BE



10M_711MHz_CHH_16QAM_5RB_BE

