

Appendix Test Data for LTE band 5(Conducted Measurement)

Product Name: LEARNING CAMERA



Trade Mark:

Test Model: DEX-01

FCC ID: 2BOSD-DEX-01

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: RF output power

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
5	1.4	824.7	QPSK	6	LOW	22.93	28.41	5.48	13	-2.3	18.48	38.5	Pass
5	1.4	824.7	QPSK	3	LOW	23.96	28.46	4.5	13	-2.3	19.51	38.5	Pass
5	1.4	824.7	QPSK	3	MID	23.95	28.46	4.51	13	-2.3	19.5	38.5	Pass
5	1.4	824.7	QPSK	3	HIGH	23.95	28.55	4.60	13	-2.3	19.5	38.5	Pass
5	1.4	824.7	QPSK	1	LOW	23.83	28.26	4.43	13	-2.3	19.38	38.5	Pass
5	1.4	824.7	QPSK	1	MID	24.03	28.44	4.41	13	-2.3	19.58	38.5	Pass
5	1.4	824.7	QPSK	1	HIGH	23.86	28.44	4.58	13	-2.3	19.41	38.5	Pass
5	1.4	824.7	16QAM	6	LOW	21.91	28.5	6.59	13	-2.3	17.46	38.5	Pass
5	1.4	824.7	16QAM	3	LOW	23.08	28.29	5.21	13	-2.3	18.63	38.5	Pass
5	1.4	824.7	16QAM	3	MID	23.06	28.29	5.23	13	-2.3	18.61	38.5	Pass
5	1.4	824.7	16QAM	3	HIGH	23.09	28.42	5.33	13	-2.3	18.64	38.5	Pass
5	1.4	824.7	16QAM	1	LOW	22.83	27.82	4.99	13	-2.3	18.38	38.5	Pass
5	1.4	824.7	16QAM	1	MID	23.06	28.02	4.96	13	-2.3	18.61	38.5	Pass
5	1.4	824.7	16QAM	1	HIGH	22.89	27.96	5.07	13	-2.3	18.44	38.5	Pass
5	1.4	836.5	QPSK	6	LOW	22.9	28.43	5.53	13	-2.3	18.45	38.5	Pass
5	1.4	836.5	QPSK	3	LOW	23.91	28.97	5.06	13	-2.3	19.46	38.5	Pass
5	1.4	836.5	QPSK	3	MID	23.95	28.99	5.04	13	-2.3	19.5	38.5	Pass
5	1.4	836.5	QPSK	3	HIGH	23.91	28.96	5.05	13	-2.3	19.46	38.5	Pass
5	1.4	836.5	QPSK	1	LOW	23.82	28.73	4.91	13	-2.3	19.37	38.5	Pass
5	1.4	836.5	QPSK	1	MID	24	28.8	4.80	13	-2.3	19.55	38.5	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
5	1.4	836.5	QPSK	1	HIGH	23.8	28.66	4.86	13	-2.3	19.35	38.5	Pass
5	1.4	836.5	16QAM	6	LOW	21.94	28.17	6.23	13	-2.3	17.49	38.5	Pass
5	1.4	836.5	16QAM	3	LOW	22.9	28.93	6.03	13	-2.3	18.45	38.5	Pass
5	1.4	836.5	16QAM	3	MID	22.89	28.92	6.03	13	-2.3	18.44	38.5	Pass
5	1.4	836.5	16QAM	3	HIGH	22.9	28.9	6	13	-2.3	18.45	38.5	Pass
5	1.4	836.5	16QAM	1	LOW	22.92	27.74	4.82	13	-2.3	18.47	38.5	Pass
5	1.4	836.5	16QAM	1	MID	23.14	27.92	4.78	13	-2.3	18.69	38.5	Pass
5	1.4	836.5	16QAM	1	HIGH	22.95	27.74	4.79	13	-2.3	18.5	38.5	Pass
5	1.4	848.3	QPSK	6	LOW	22.84	28.06	5.22	13	-2.3	18.39	38.5	Pass
5	1.4	848.3	QPSK	3	LOW	23.78	28.06	4.28	13	-2.3	19.33	38.5	Pass
5	1.4	848.3	QPSK	3	MID	23.83	28.06	4.23	13	-2.3	19.38	38.5	Pass
5	1.4	848.3	QPSK	3	HIGH	23.88	27.98	4.10	13	-2.3	19.43	38.5	Pass
5	1.4	848.3	QPSK	1	LOW	23.69	27.52	3.83	13	-2.3	19.24	38.5	Pass
5	1.4	848.3	QPSK	1	MID	23.87	27.52	3.65	13	-2.3	19.42	38.5	Pass
5	1.4	848.3	QPSK	1	HIGH	23.72	27.49	3.77	13	-2.3	19.27	38.5	Pass
5	1.4	848.3	16QAM	6	LOW	21.76	27.88	6.12	13	-2.3	17.31	38.5	Pass
5	1.4	848.3	16QAM	3	LOW	22.87	27.79	4.92	13	-2.3	18.42	38.5	Pass
5	1.4	848.3	16QAM	3	MID	22.86	27.79	4.93	13	-2.3	18.41	38.5	Pass
5	1.4	848.3	16QAM	3	HIGH	22.98	27.76	4.78	13	-2.3	18.53	38.5	Pass
5	1.4	848.3	16QAM	1	LOW	22.69	27.28	4.59	13	-2.3	18.24	38.5	Pass
5	1.4	848.3	16QAM	1	MID	22.93	27.33	4.40	13	-2.3	18.48	38.5	Pass
5	1.4	848.3	16QAM	1	HIGH	22.75	27.28	4.53	13	-2.3	18.3	38.5	Pass
5	3	825.5	QPSK	15	LOW	22.8	28.34	5.54	13	-2.3	18.35	38.5	Pass
5	3	825.5	QPSK	8	LOW	22.86	28.36	5.5	13	-2.3	18.41	38.5	Pass
5	3	825.5	QPSK	8	MID	22.84	28.37	5.53	13	-2.3	18.39	38.5	Pass
5	3	825.5	QPSK	8	HIGH	22.8	28.46	5.66	13	-2.3	18.35	38.5	Pass
5	3	825.5	QPSK	1	LOW	23.82	27.8	3.98	13	-2.3	19.37	38.5	Pass
5	3	825.5	QPSK	1	MID	23.84	28.03	4.19	13	-2.3	19.39	38.5	Pass
5	3	825.5	QPSK	1	HIGH	23.78	28.13	4.35	13	-2.3	19.33	38.5	Pass
5	3	825.5	16QAM	15	LOW	21.85	28.51	6.66	13	-2.3	17.40	38.5	Pass
5	3	825.5	16QAM	8	LOW	21.89	27.68	5.79	13	-2.3	17.44	38.5	Pass
5	3	825.5	16QAM	8	MID	21.89	27.7	5.81	13	-2.3	17.44	38.5	Pass
5	3	825.5	16QAM	8	HIGH	21.87	27.8	5.93	13	-2.3	17.42	38.5	Pass
5	3	825.5	16QAM	1	LOW	22.8	27.5	4.70	13	-2.3	18.35	38.5	Pass
5	3	825.5	16QAM	1	MID	22.86	27.73	4.87	13	-2.3	18.41	38.5	Pass
5	3	825.5	16QAM	1	HIGH	22.77	27.82	5.05	13	-2.3	18.32	38.5	Pass
5	3	836.5	QPSK	15	LOW	22.82	28.79	5.97	13	-2.3	18.37	38.5	Pass
5	3	836.5	QPSK	8	LOW	22.8	28.68	5.88	13	-2.3	18.35	38.5	Pass
5	3	836.5	QPSK	8	MID	22.8	28.65	5.85	13	-2.3	18.35	38.5	Pass
5	3	836.5	QPSK	8	HIGH	22.8	28.57	5.77	13	-2.3	18.35	38.5	Pass
5	3	836.5	QPSK	1	LOW	23.8	28.44	4.64	13	-2.3	19.35	38.5	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
5	3	836.5	QPSK	1	MID	23.8	28.38	4.58	13	-2.3	19.35	38.5	Pass
5	3	836.5	QPSK	1	HIGH	23.73	28.28	4.55	13	-2.3	19.28	38.5	Pass
5	3	836.5	16QAM	15	LOW	21.85	28.71	6.86	13	-2.3	17.40	38.5	Pass
5	3	836.5	16QAM	8	LOW	21.98	28.51	6.53	13	-2.3	17.53	38.5	Pass
5	3	836.5	16QAM	8	MID	21.99	28.47	6.48	13	-2.3	17.54	38.5	Pass
5	3	836.5	16QAM	8	HIGH	21.98	28.43	6.45	13	-2.3	17.53	38.5	Pass
5	3	836.5	16QAM	1	LOW	23.36	29.01	5.65	13	-2.3	18.91	38.5	Pass
5	3	836.5	16QAM	1	MID	23.33	28.91	5.58	13	-2.3	18.88	38.5	Pass
5	3	836.5	16QAM	1	HIGH	23.28	28.8	5.52	13	-2.3	18.83	38.5	Pass
5	3	847.5	QPSK	15	LOW	22.74	27.79	5.05	13	-2.3	18.29	38.5	Pass
5	3	847.5	QPSK	8	LOW	22.78	28.1	5.32	13	-2.3	18.33	38.5	Pass
5	3	847.5	QPSK	8	MID	22.75	28.11	5.36	13	-2.3	18.3	38.5	Pass
5	3	847.5	QPSK	8	HIGH	22.72	27.93	5.21	13	-2.3	18.27	38.5	Pass
5	3	847.5	QPSK	1	LOW	23.75	27.99	4.24	13	-2.3	19.3	38.5	Pass
5	3	847.5	QPSK	1	MID	23.73	27.69	3.96	13	-2.3	19.28	38.5	Pass
5	3	847.5	QPSK	1	HIGH	23.7	27.61	3.91	13	-2.3	19.25	38.5	Pass
5	3	847.5	16QAM	15	LOW	21.65	27.95	6.30	13	-2.3	17.2	38.5	Pass
5	3	847.5	16QAM	8	LOW	21.75	27.67	5.92	13	-2.3	17.3	38.5	Pass
5	3	847.5	16QAM	8	MID	21.75	27.7	5.95	13	-2.3	17.3	38.5	Pass
5	3	847.5	16QAM	8	HIGH	21.69	27.39	5.70	13	-2.3	17.24	38.5	Pass
5	3	847.5	16QAM	1	LOW	22.87	27.32	4.45	13	-2.3	18.42	38.5	Pass
5	3	847.5	16QAM	1	MID	22.86	27.17	4.31	13	-2.3	18.41	38.5	Pass
5	3	847.5	16QAM	1	HIGH	22.86	27.18	4.32	13	-2.3	18.41	38.5	Pass
5	5	826.5	QPSK	25	LOW	22.83	28.87	6.04	13	-2.3	18.38	38.5	Pass
5	5	826.5	QPSK	12	LOW	22.82	28.11	5.29	13	-2.3	18.37	38.5	Pass
5	5	826.5	QPSK	12	MID	22.84	28.2	5.36	13	-2.3	18.39	38.5	Pass
5	5	826.5	QPSK	12	HIGH	22.87	28.43	5.56	13	-2.3	18.42	38.5	Pass
5	5	826.5	QPSK	1	LOW	23.68	27.98	4.30	13	-2.3	19.23	38.5	Pass
5	5	826.5	QPSK	1	MID	23.83	28.31	4.48	13	-2.3	19.38	38.5	Pass
5	5	826.5	QPSK	1	HIGH	23.73	28.49	4.76	13	-2.3	19.28	38.5	Pass
5	5	826.5	16QAM	25	LOW	21.87	28.62	6.75	13	-2.3	17.42	38.5	Pass
5	5	826.5	16QAM	12	LOW	21.82	28.2	6.38	13	-2.3	17.37	38.5	Pass
5	5	826.5	16QAM	12	MID	21.8	28.21	6.41	13	-2.3	17.35	38.5	Pass
5	5	826.5	16QAM	12	HIGH	21.82	28.45	6.63	13	-2.3	17.37	38.5	Pass
5	5	826.5	16QAM	1	LOW	22.78	27.91	5.13	13	-2.3	18.33	38.5	Pass
5	5	826.5	16QAM	1	MID	22.91	28.24	5.33	13	-2.3	18.46	38.5	Pass
5	5	826.5	16QAM	1	HIGH	22.81	28.41	5.60	13	-2.3	18.36	38.5	Pass
5	5	836.5	QPSK	25	LOW	22.78	28.98	6.20	13	-2.3	18.33	38.5	Pass
5	5	836.5	QPSK	12	LOW	22.77	28.47	5.70	13	-2.3	18.32	38.5	Pass
5	5	836.5	QPSK	12	MID	22.82	28.51	5.69	13	-2.3	18.37	38.5	Pass
5	5	836.5	QPSK	12	HIGH	22.81	28.42	5.61	13	-2.3	18.36	38.5	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
5	5	836.5	QPSK	1	LOW	23.68	29.02	5.34	13	-2.3	19.23	38.5	Pass
5	5	836.5	QPSK	1	MID	23.81	28.96	5.15	13	-2.3	19.36	38.5	Pass
5	5	836.5	QPSK	1	HIGH	23.67	28.74	5.07	13	-2.3	19.22	38.5	Pass
5	5	836.5	16QAM	25	LOW	21.83	29.23	7.40	13	-2.3	17.38	38.5	Pass
5	5	836.5	16QAM	12	LOW	21.77	28.93	7.16	13	-2.3	17.32	38.5	Pass
5	5	836.5	16QAM	12	MID	21.76	28.92	7.16	13	-2.3	17.31	38.5	Pass
5	5	836.5	16QAM	12	HIGH	21.75	28.78	7.03	13	-2.3	17.3	38.5	Pass
5	5	836.5	16QAM	1	LOW	22.61	27.94	5.33	13	-2.3	18.16	38.5	Pass
5	5	836.5	16QAM	1	MID	22.75	27.98	5.23	13	-2.3	18.3	38.5	Pass
5	5	836.5	16QAM	1	HIGH	22.56	27.76	5.20	13	-2.3	18.11	38.5	Pass
5	5	846.5	QPSK	25	LOW	22.65	28.61	5.96	13	-2.3	18.2	38.5	Pass
5	5	846.5	QPSK	12	LOW	22.76	28.36	5.60	13	-2.3	18.31	38.5	Pass
5	5	846.5	QPSK	12	MID	22.76	28.33	5.57	13	-2.3	18.31	38.5	Pass
5	5	846.5	QPSK	12	HIGH	22.6	27.86	5.26	13	-2.3	18.15	38.5	Pass
5	5	846.5	QPSK	1	LOW	23.69	28.25	4.56	13	-2.3	19.24	38.5	Pass
5	5	846.5	QPSK	1	MID	23.8	27.89	4.09	13	-2.3	19.35	38.5	Pass
5	5	846.5	QPSK	1	HIGH	23.63	27.59	3.96	13	-2.3	19.18	38.5	Pass
5	5	846.5	16QAM	25	LOW	21.66	28.15	6.49	13	-2.3	17.21	38.5	Pass
5	5	846.5	16QAM	12	LOW	21.77	28.11	6.34	13	-2.3	17.32	38.5	Pass
5	5	846.5	16QAM	12	MID	21.76	28.1	6.34	13	-2.3	17.31	38.5	Pass
5	5	846.5	16QAM	12	HIGH	21.58	27.63	6.05	13	-2.3	17.13	38.5	Pass
5	5	846.5	16QAM	1	LOW	22.99	28.07	5.08	13	-2.3	18.54	38.5	Pass
5	5	846.5	16QAM	1	MID	23.03	27.74	4.71	13	-2.3	18.58	38.5	Pass
5	5	846.5	16QAM	1	HIGH	22.9	27.48	4.58	13	-2.3	18.45	38.5	Pass
5	10	829	QPSK	50	LOW	22.91	28.96	6.05	13	-2.3	18.46	38.5	Pass
5	10	829	QPSK	25	LOW	22.88	28.71	5.83	13	-2.3	18.43	38.5	Pass
5	10	829	QPSK	25	MID	22.89	28.77	5.88	13	-2.3	18.44	38.5	Pass
5	10	829	QPSK	25	HIGH	22.89	29.06	6.17	13	-2.3	18.44	38.5	Pass
5	10	829	QPSK	1	LOW	23.77	27.91	4.14	13	-2.3	19.32	38.5	Pass
5	10	829	QPSK	1	MID	23.95	28.44	4.49	13	-2.3	19.5	38.5	Pass
5	10	829	QPSK	1	HIGH	23.74	28.47	4.73	13	-2.3	19.29	38.5	Pass
5	10	829	16QAM	50	LOW	21.93	29.03	7.10	13	-2.3	17.48	38.5	Pass
5	10	829	16QAM	25	LOW	21.91	28.57	6.66	13	-2.3	17.46	38.5	Pass
5	10	829	16QAM	25	MID	21.94	28.66	6.72	13	-2.3	17.49	38.5	Pass
5	10	829	16QAM	25	HIGH	21.97	29.04	7.07	13	-2.3	17.52	38.5	Pass
5	10	829	16QAM	1	LOW	23.32	28.26	4.94	13	-2.3	18.87	38.5	Pass
5	10	829	16QAM	1	MID	23.56	28.88	5.32	13	-2.3	19.11	38.5	Pass
5	10	829	16QAM	1	HIGH	23.38	29.07	5.69	13	-2.3	18.93	38.5	Pass
5	10	836.5	QPSK	50	LOW	22.84	29.11	6.27	13	-2.3	18.39	38.5	Pass
5	10	836.5	QPSK	25	LOW	22.8	28.7	5.90	13	-2.3	18.35	38.5	Pass
5	10	836.5	QPSK	25	MID	22.79	28.7	5.91	13	-2.3	18.34	38.5	Pass

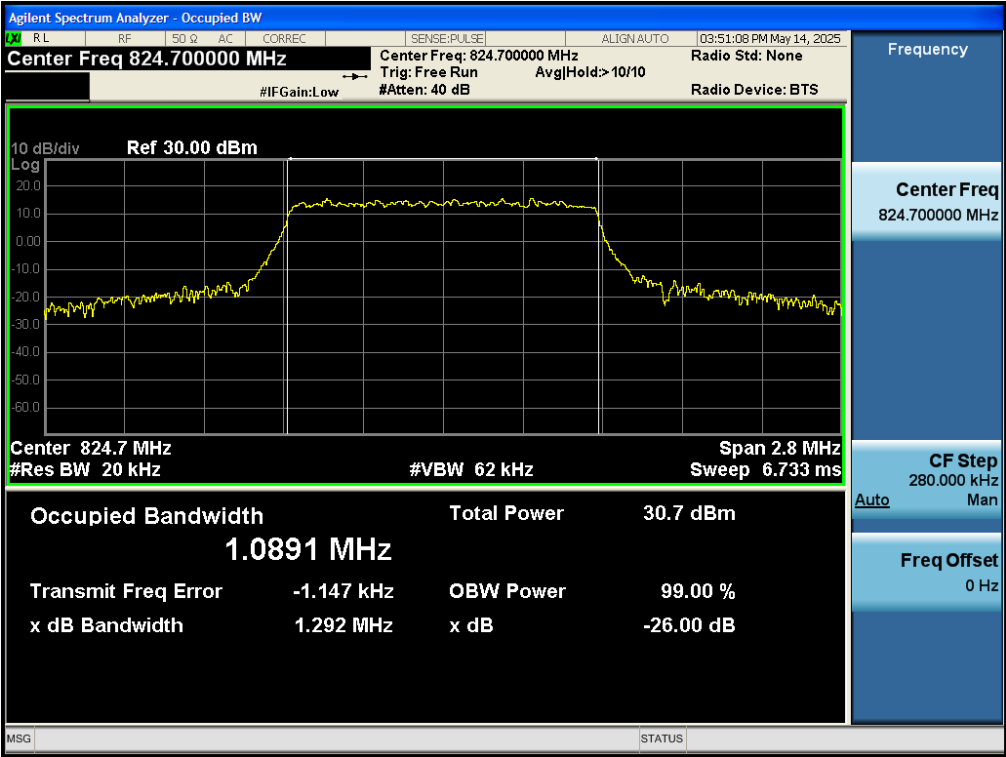
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
5	10	836.5	QPSK	25	HIGH	22.81	28.69	5.88	13	-2.3	18.36	38.5	Pass
5	10	836.5	QPSK	1	LOW	23.85	28.85	5	13	-2.3	19.40	38.5	Pass
5	10	836.5	QPSK	1	MID	23.93	28.74	4.81	13	-2.3	19.48	38.5	Pass
5	10	836.5	QPSK	1	HIGH	23.76	28.47	4.71	13	-2.3	19.31	38.5	Pass
5	10	836.5	16QAM	50	LOW	21.82	28.45	6.63	13	-2.3	17.37	38.5	Pass
5	10	836.5	16QAM	25	LOW	21.86	29.09	7.23	13	-2.3	17.41	38.5	Pass
5	10	836.5	16QAM	25	MID	21.83	29.08	7.25	13	-2.3	17.38	38.5	Pass
5	10	836.5	16QAM	25	HIGH	21.87	28.81	6.94	13	-2.3	17.42	38.5	Pass
5	10	836.5	16QAM	1	LOW	22.93	27.83	4.90	13	-2.3	18.48	38.5	Pass
5	10	836.5	16QAM	1	MID	23.03	27.79	4.76	13	-2.3	18.58	38.5	Pass
5	10	836.5	16QAM	1	HIGH	22.87	27.62	4.75	13	-2.3	18.42	38.5	Pass
5	10	844	QPSK	50	LOW	22.71	28.37	5.66	13	-2.3	18.26	38.5	Pass
5	10	844	QPSK	25	LOW	22.8	28.72	5.92	13	-2.3	18.35	38.5	Pass
5	10	844	QPSK	25	MID	22.8	28.71	5.91	13	-2.3	18.35	38.5	Pass
5	10	844	QPSK	25	HIGH	22.63	28.32	5.69	13	-2.3	18.18	38.5	Pass
5	10	844	QPSK	1	LOW	23.77	28.21	4.44	13	-2.3	19.32	38.5	Pass
5	10	844	QPSK	1	MID	23.89	28.11	4.22	13	-2.3	19.44	38.5	Pass
5	10	844	QPSK	1	HIGH	23.73	27.48	3.75	13	-2.3	19.28	38.5	Pass
5	10	844	16QAM	50	LOW	21.73	28.52	6.79	13	-2.3	17.28	38.5	Pass
5	10	844	16QAM	25	LOW	21.9	28.65	6.75	13	-2.3	17.45	38.5	Pass
5	10	844	16QAM	25	MID	21.91	28.63	6.72	13	-2.3	17.46	38.5	Pass
5	10	844	16QAM	25	HIGH	21.72	28.11	6.39	13	-2.3	17.27	38.5	Pass
5	10	844	16QAM	1	LOW	22.75	27.84	5.09	13	-2.3	18.3	38.5	Pass
5	10	844	16QAM	1	MID	22.98	27.86	4.88	13	-2.3	18.53	38.5	Pass
5	10	844	16QAM	1	HIGH	22.77	27.3	4.53	13	-2.3	18.32	38.5	Pass

Appendix B: Occupied bandwidth

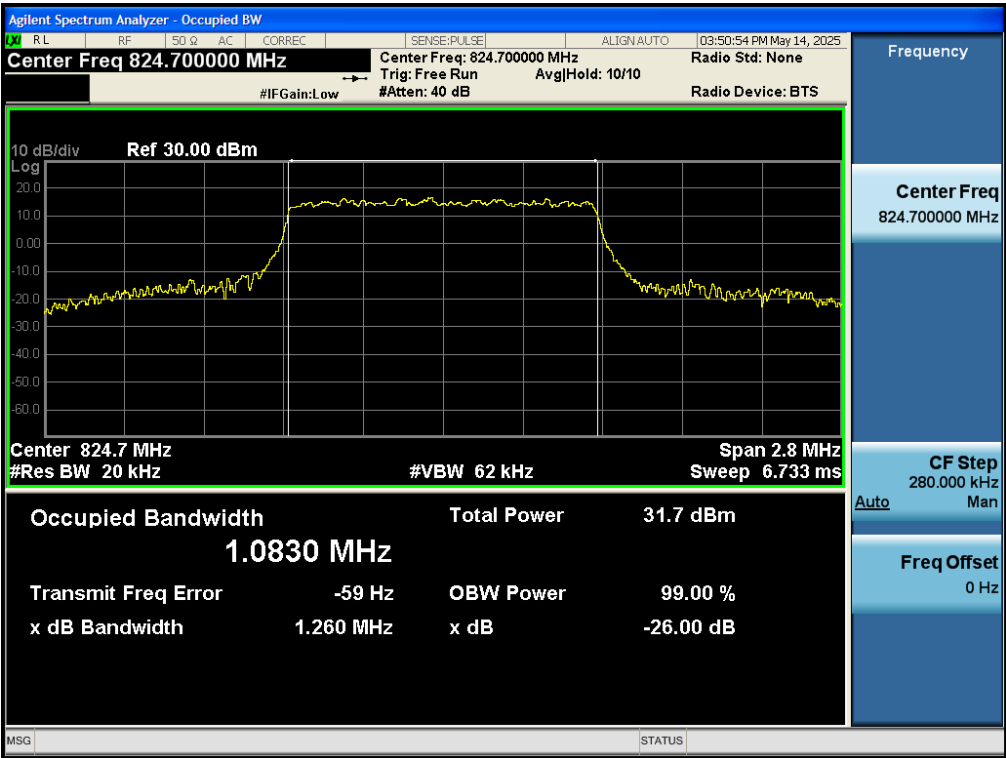
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
5	1.4	824.7	QPSK	6	LOW	1.083	1.26	No limit
5	1.4	824.7	16QAM	6	LOW	1.089	1.292	No limit
5	1.4	836.5	QPSK	6	LOW	1.086	1.28	No limit
5	1.4	836.5	16QAM	6	LOW	1.08	1.253	No limit
5	1.4	848.3	QPSK	6	LOW	1.091	1.23	No limit
5	1.4	848.3	16QAM	6	LOW	1.087	1.26	No limit
5	3	825.5	QPSK	15	LOW	2.682	2.87	No limit
5	3	825.5	16QAM	15	LOW	2.677	2.864	No limit
5	3	836.5	QPSK	15	LOW	2.679	2.876	No limit
5	3	836.5	16QAM	15	LOW	2.676	2.874	No limit
5	3	847.5	QPSK	15	LOW	2.688	2.86	No limit
5	3	847.5	16QAM	15	LOW	2.678	2.864	No limit
5	5	826.5	QPSK	25	LOW	4.493	5.141	No limit
5	5	826.5	16QAM	25	LOW	4.487	5.206	No limit
5	5	836.5	QPSK	25	LOW	4.467	4.83	No limit
5	5	836.5	16QAM	25	LOW	4.47	4.854	No limit
5	5	846.5	QPSK	25	LOW	4.478	4.83	No limit
5	5	846.5	16QAM	25	LOW	4.462	4.783	No limit
5	10	829	QPSK	50	LOW	8.964	10.56	No limit
5	10	829	16QAM	50	LOW	8.949	9.692	No limit
5	10	836.5	QPSK	50	LOW	8.962	9.809	No limit
5	10	836.5	16QAM	50	LOW	8.95	9.708	No limit
5	10	844	QPSK	50	LOW	8.921	9.64	No limit
5	10	844	16QAM	50	LOW	8.921	9.499	No limit

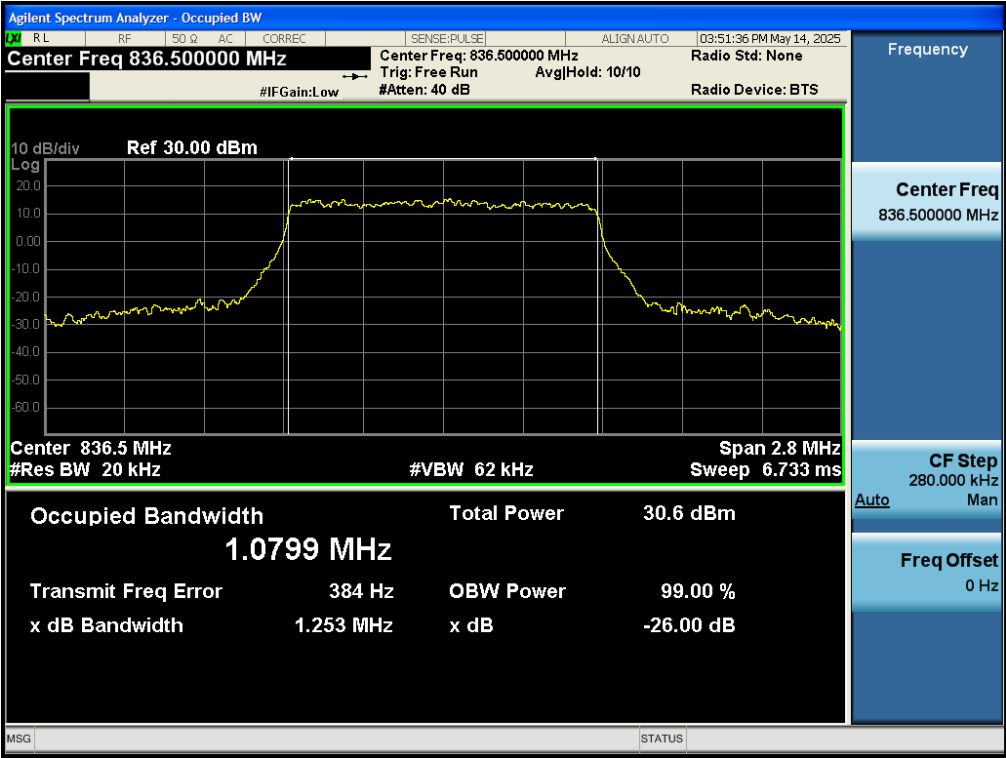
Test Graphs



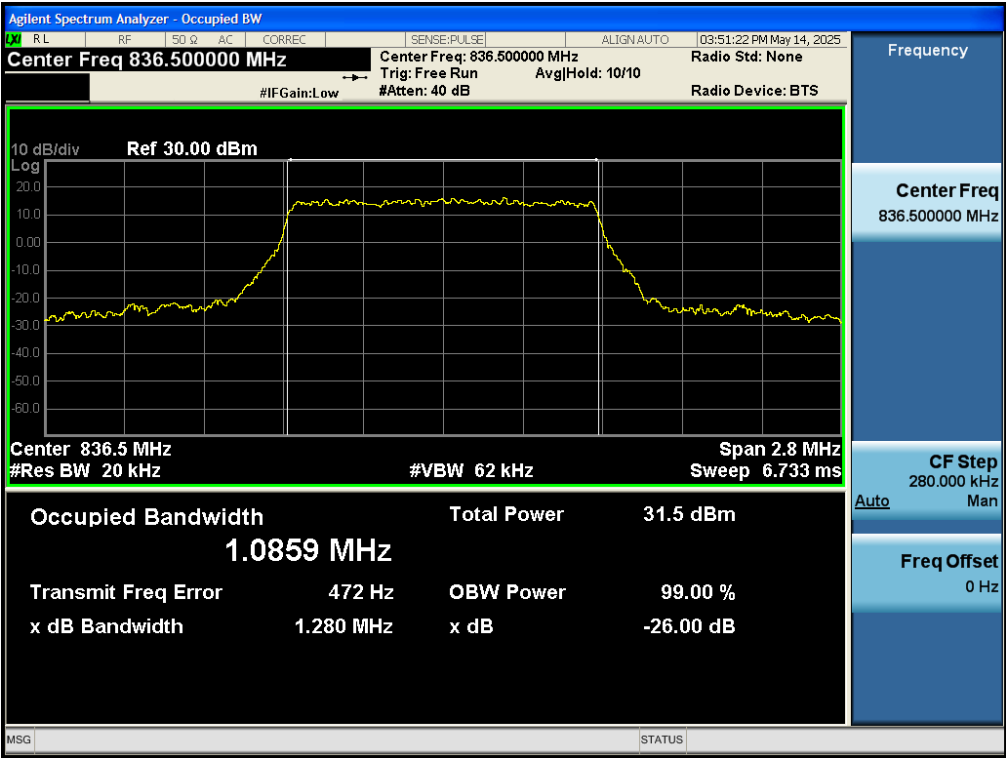
Test_Graph_band5_824.7MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



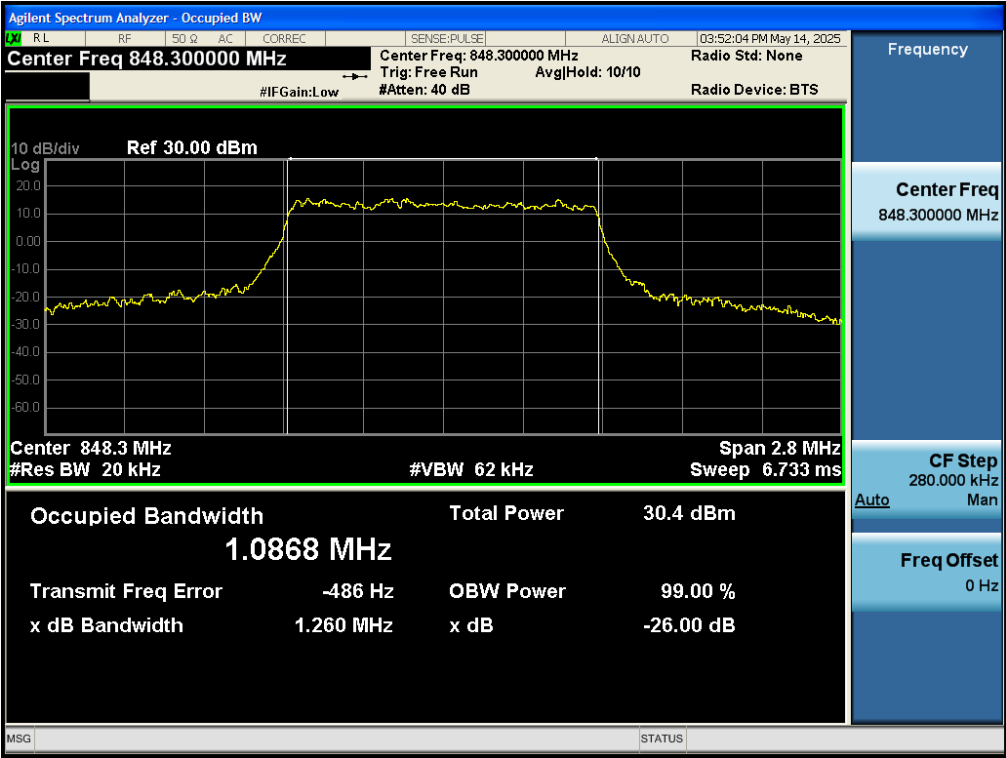
Test_Graph_band5_824.7MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



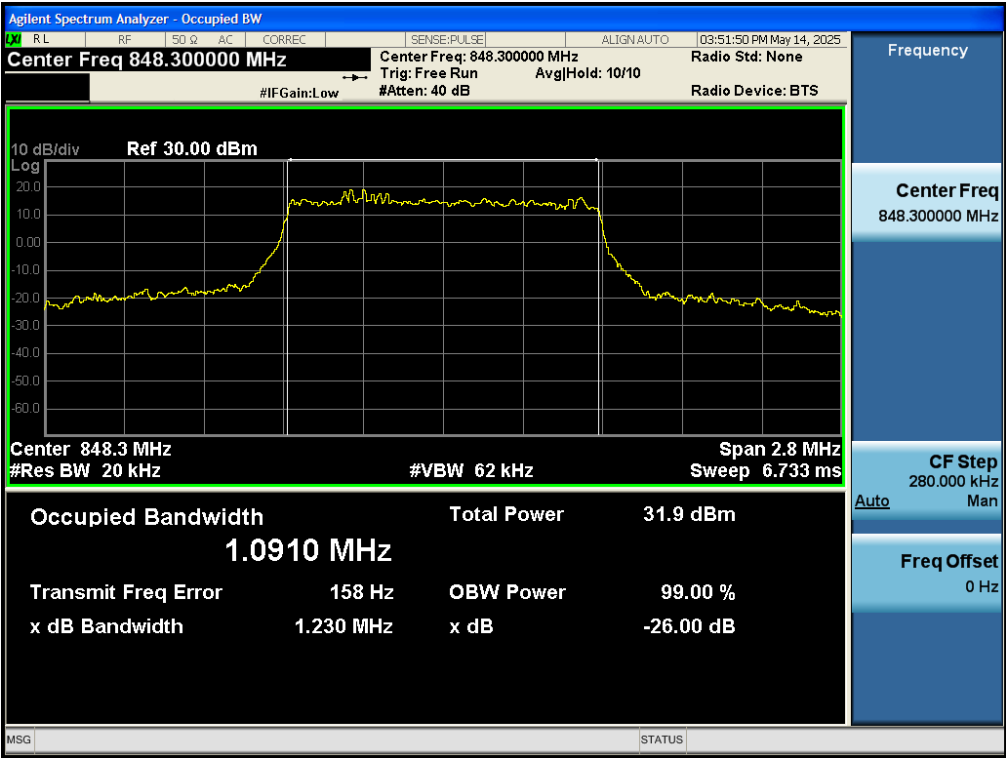
Test_Graph_band5_836.5MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



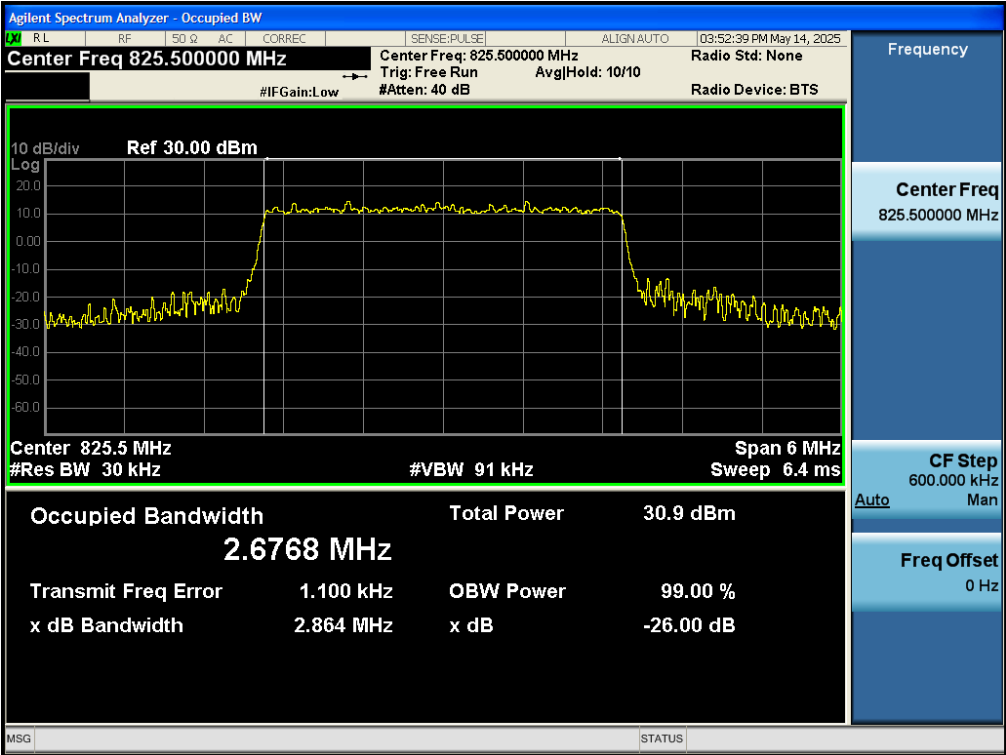
Test_Graph_band5_836.5MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



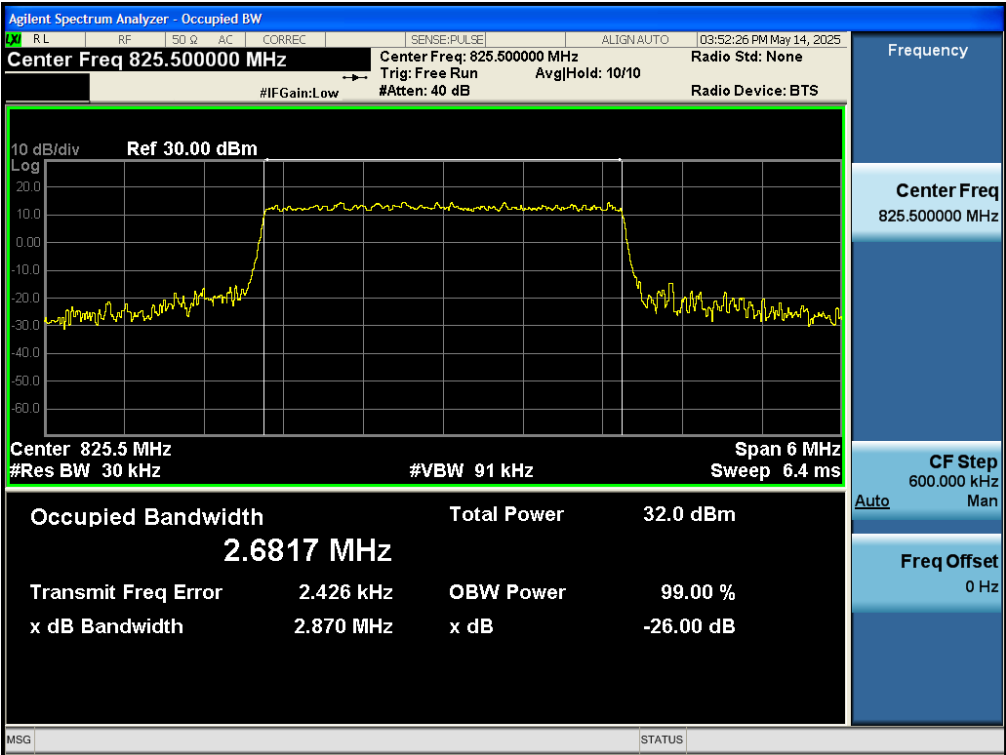
Test_Graph_band5_848.3MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



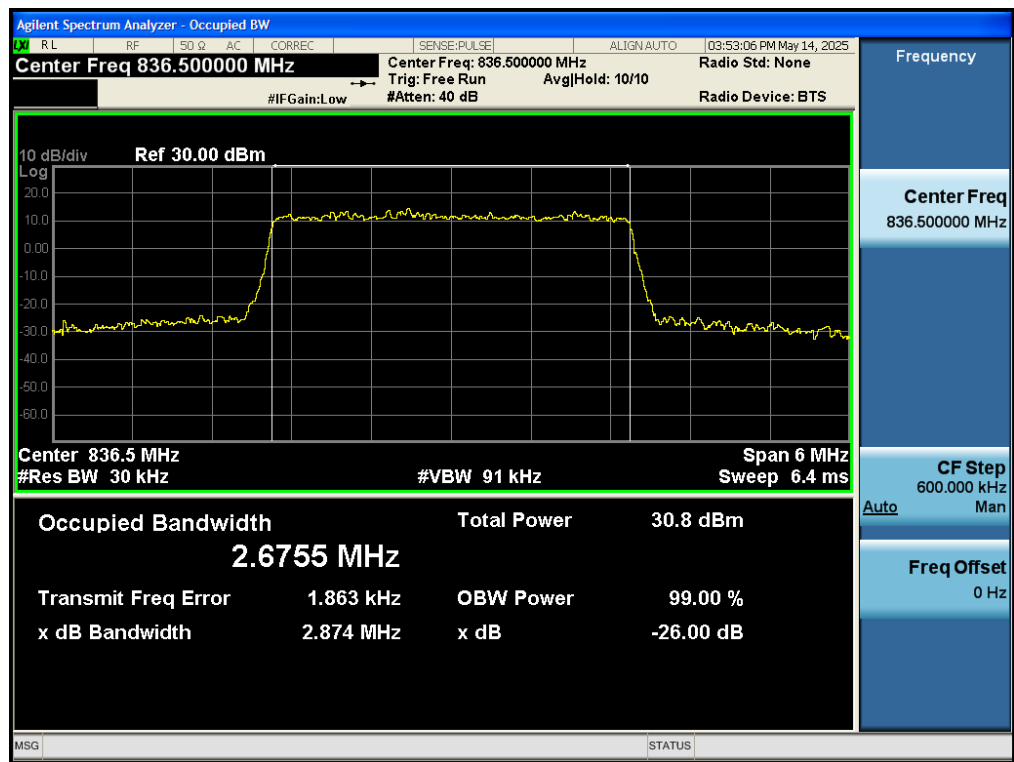
Test_Graph_band5_848.3MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



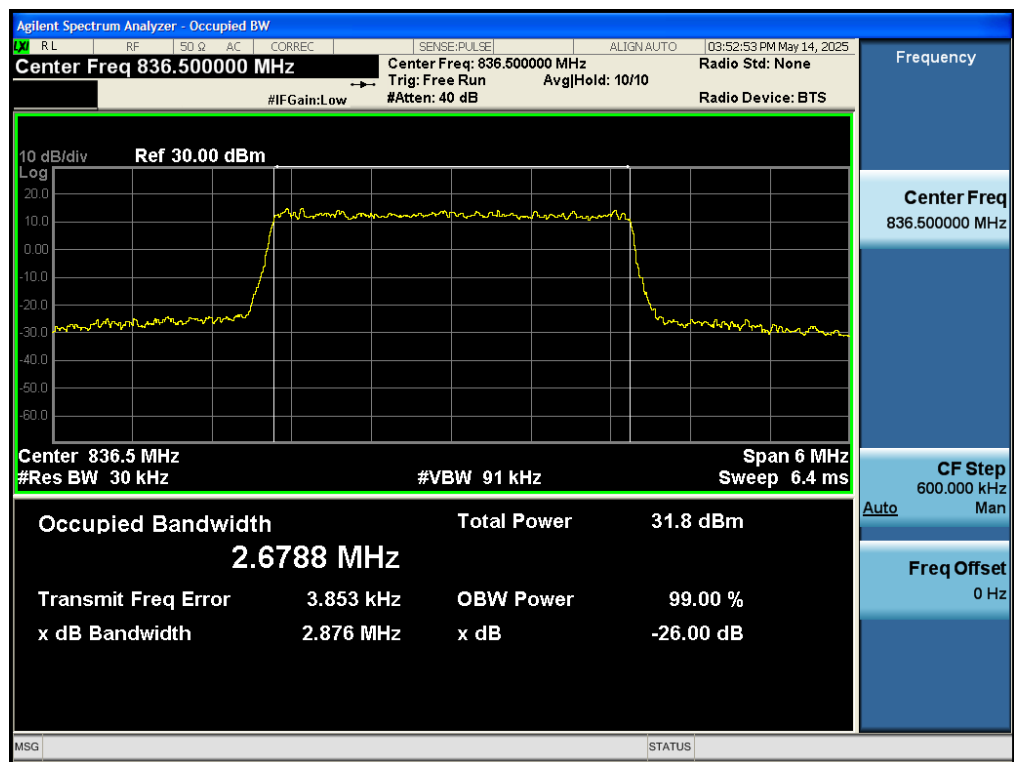
Test_Graph_band5_825.5MHz_3M_16QAM_15RB#LOW_OBW&EBW



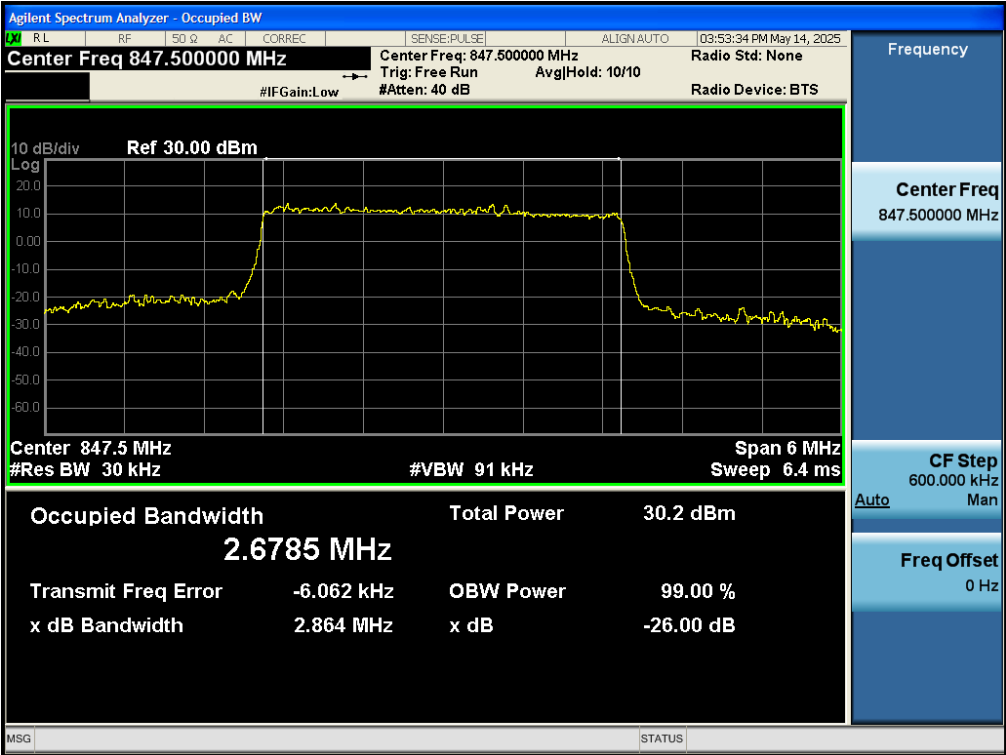
Test_Graph_band5_825.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



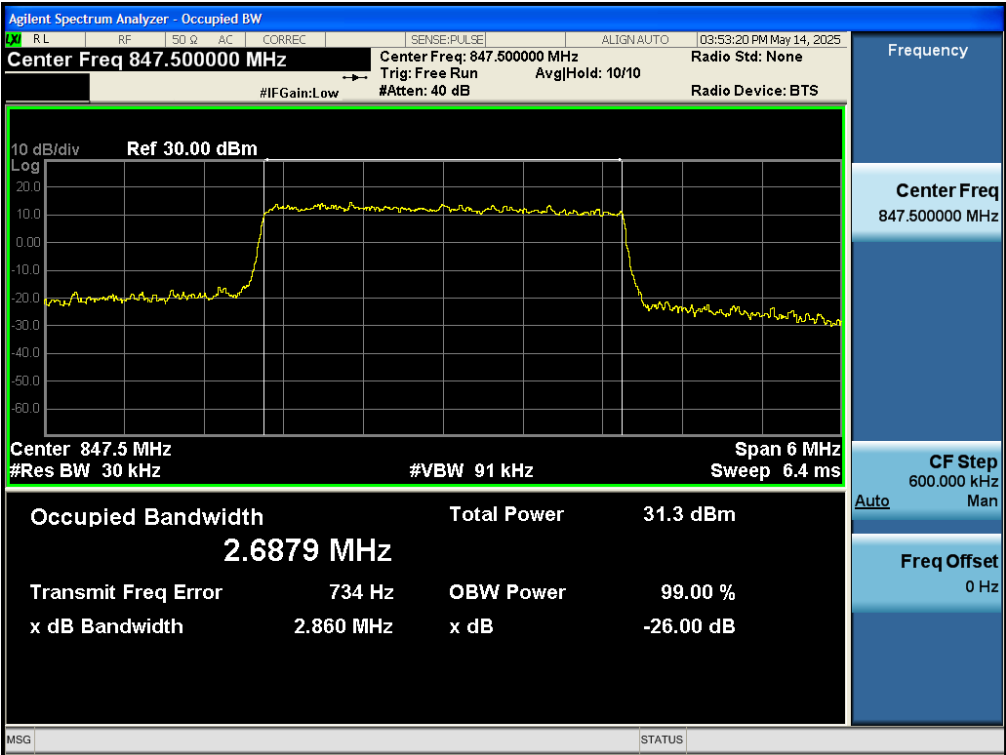
Test_Graph_band5_836.5MHz_3M_16QAM_15RB#LOW_OBW&EBW



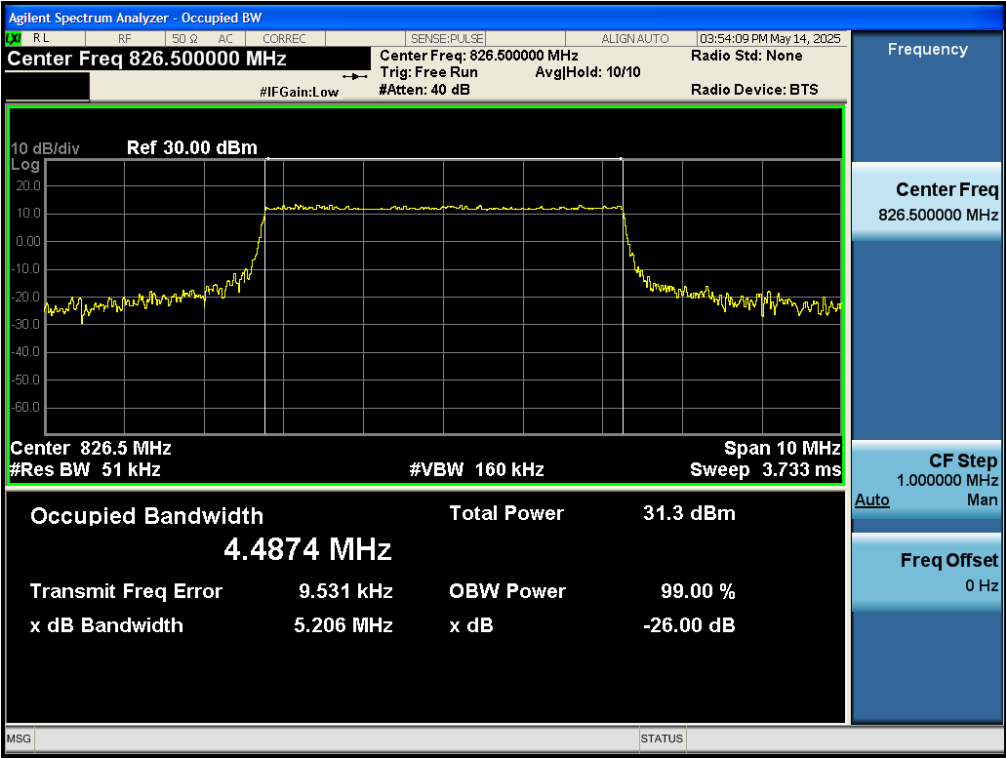
Test_Graph_band5_836.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



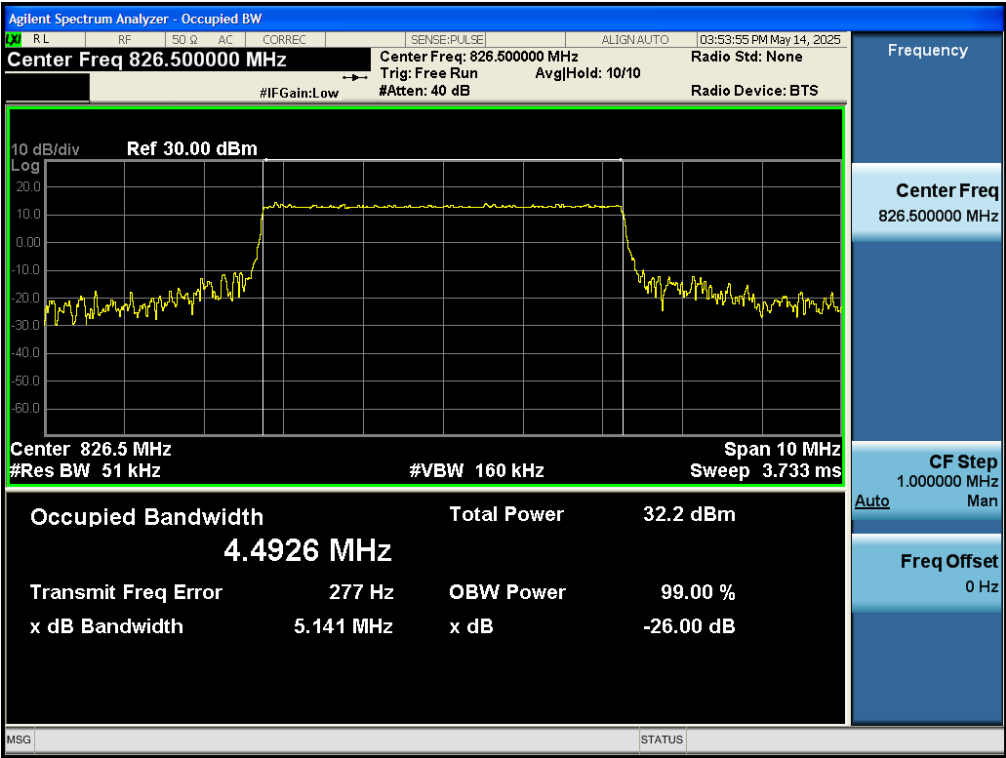
Test_Graph_band5_847.5MHz_3M_16QAM_15RB#LOW_OBW&EBW



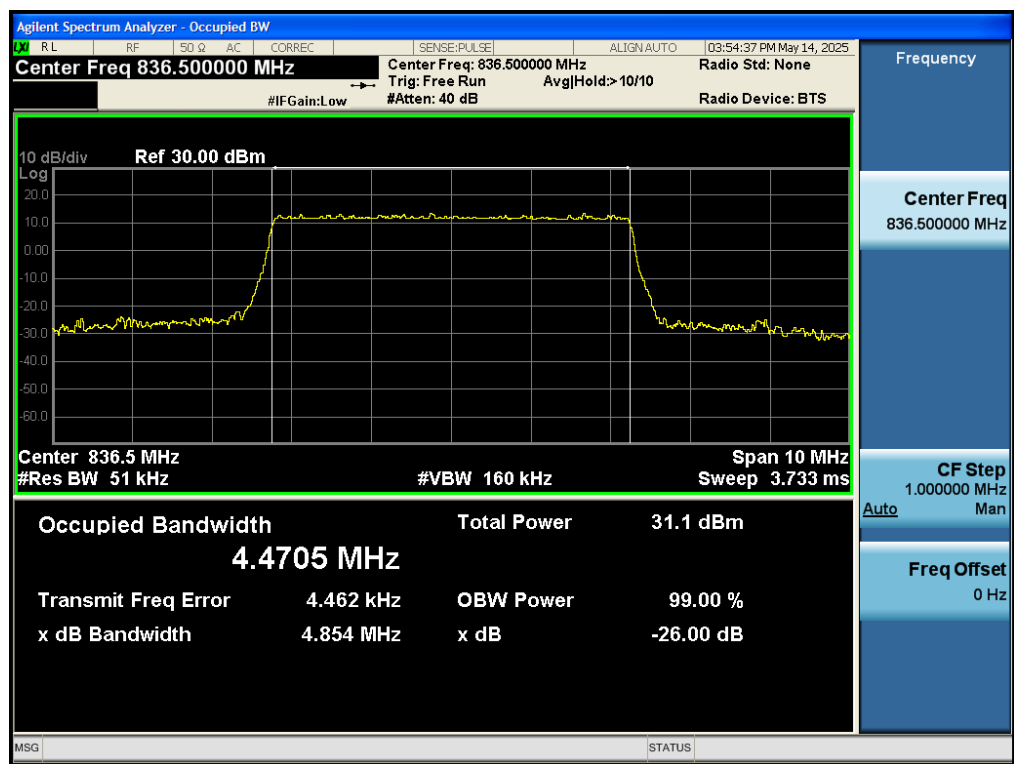
Test_Graph_band5_847.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



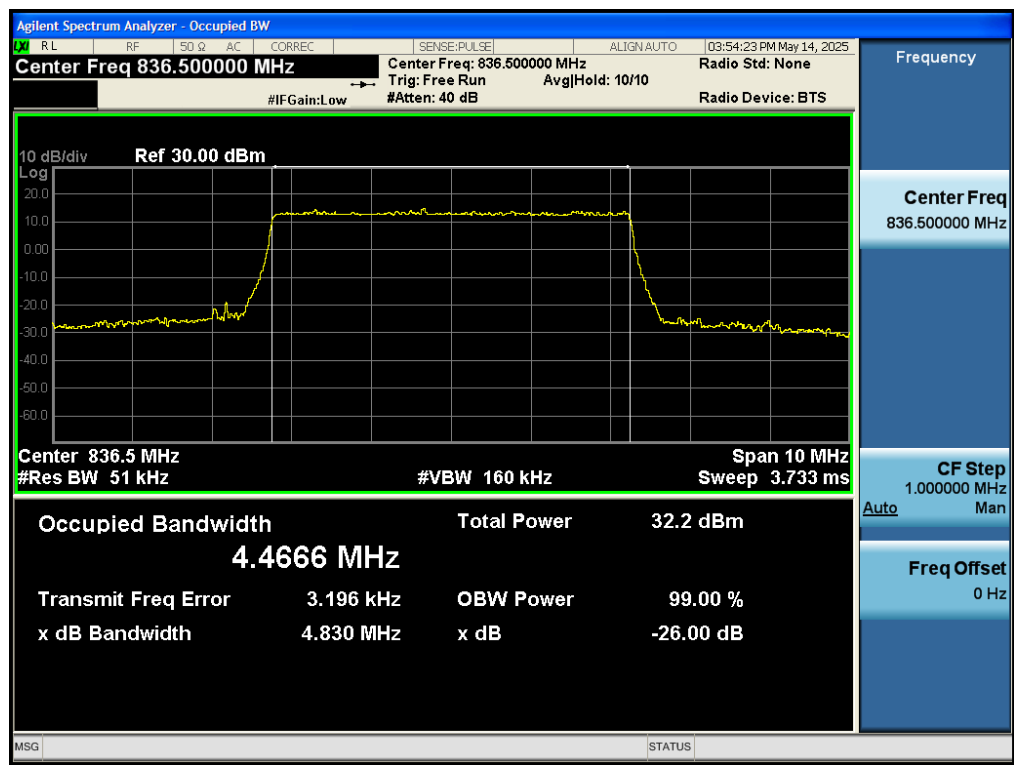
Test_Graph_band5_826.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



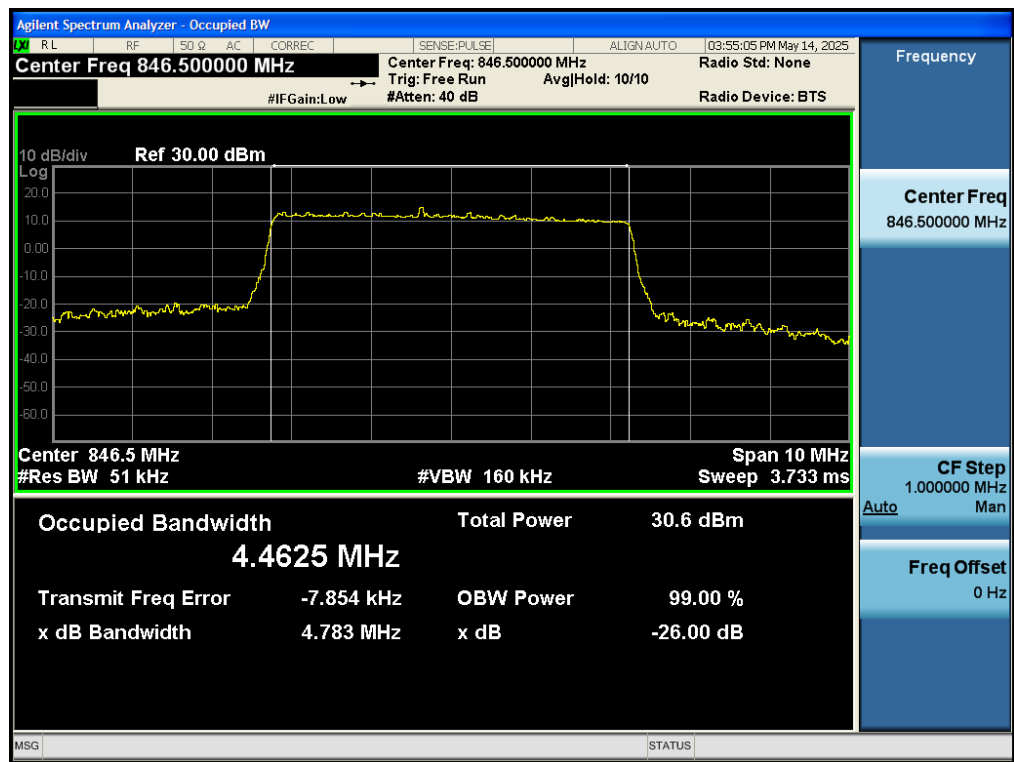
Test_Graph_band5_826.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



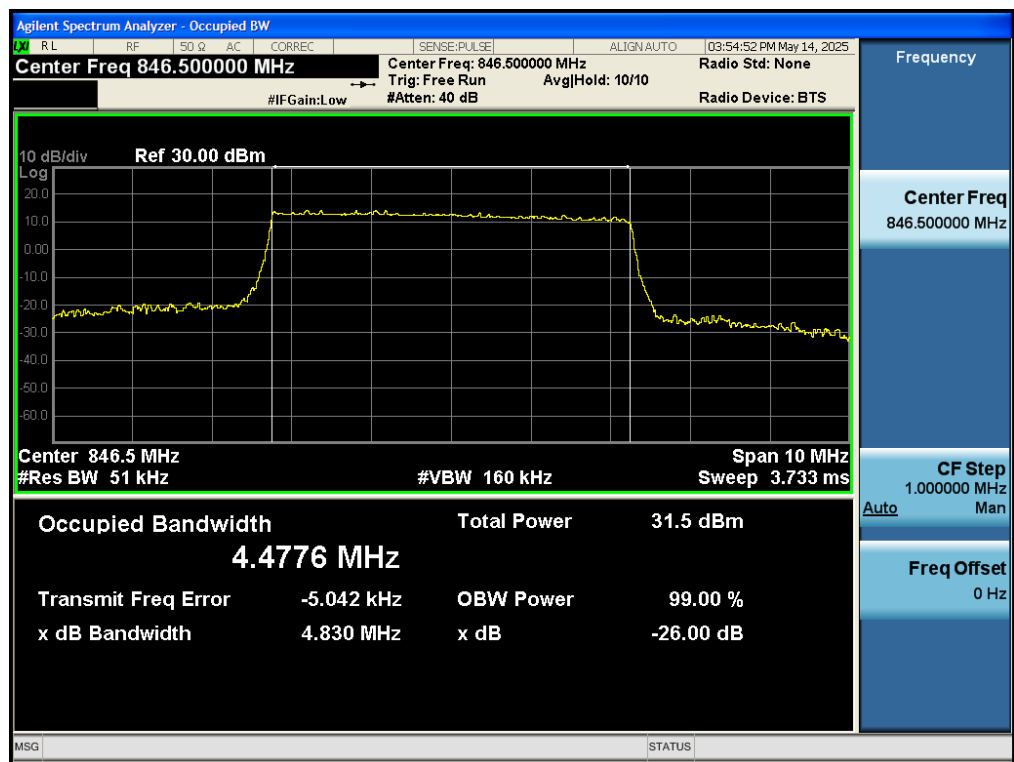
Test_Graph_band5_836.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



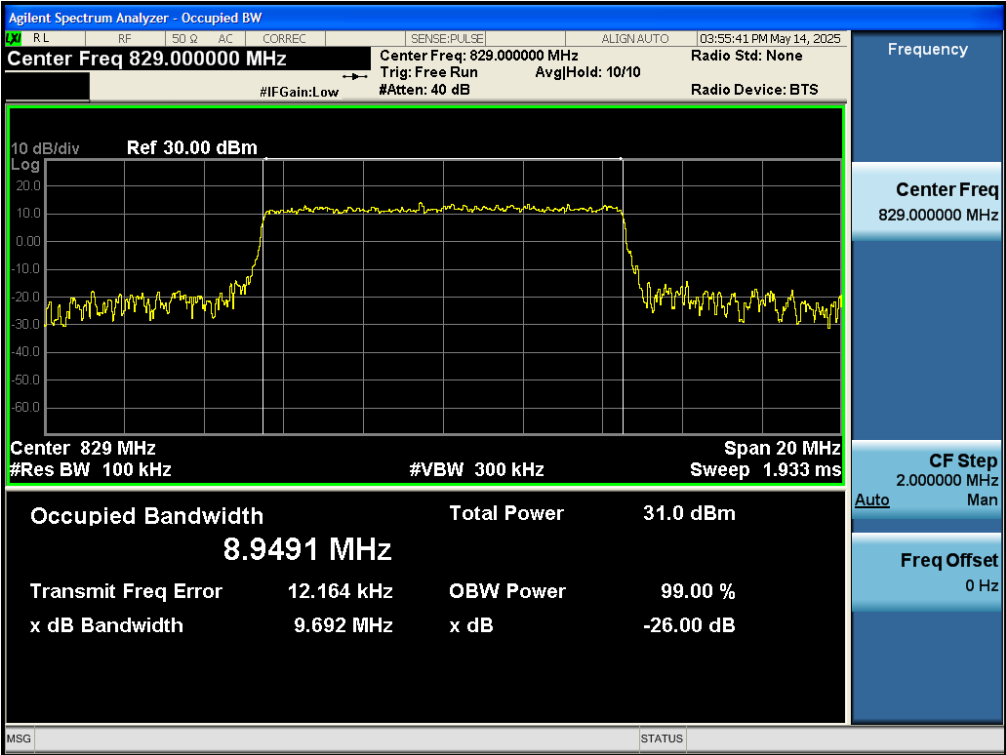
Test_Graph_band5_836.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



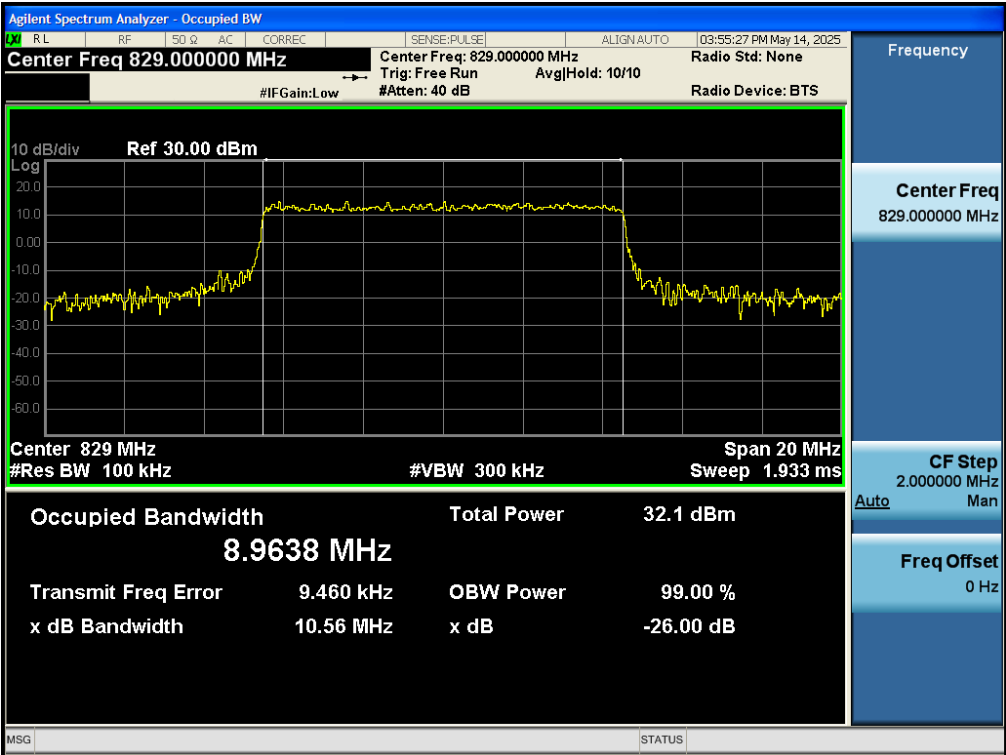
Test_Graph_band5_846.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



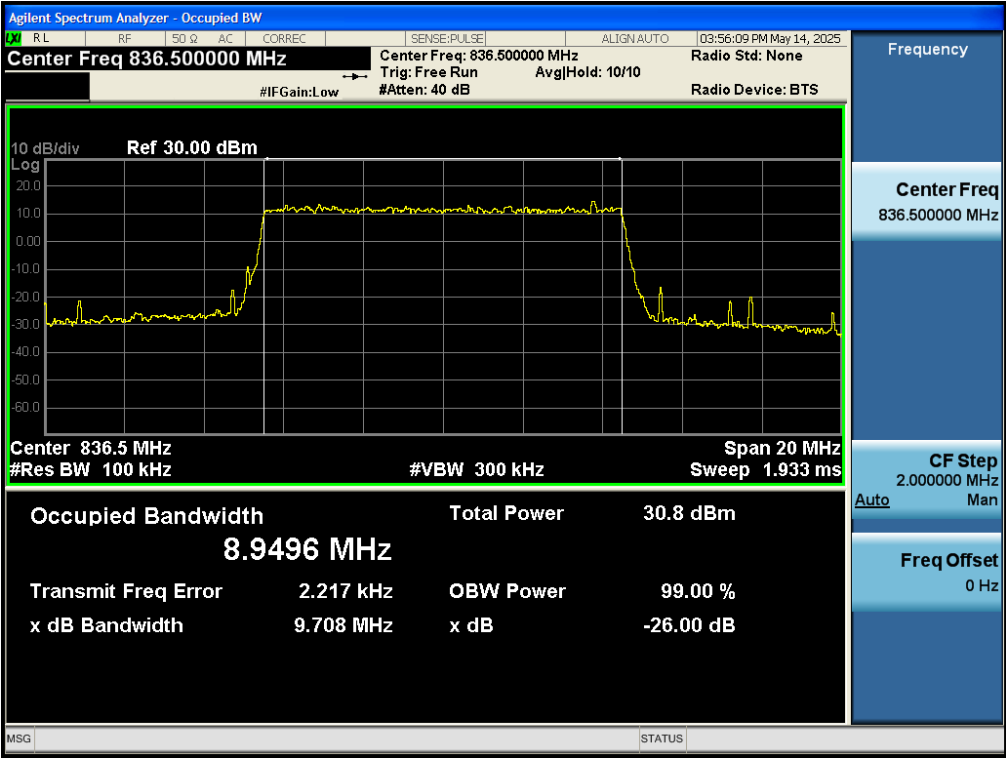
Test_Graph_band5_846.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



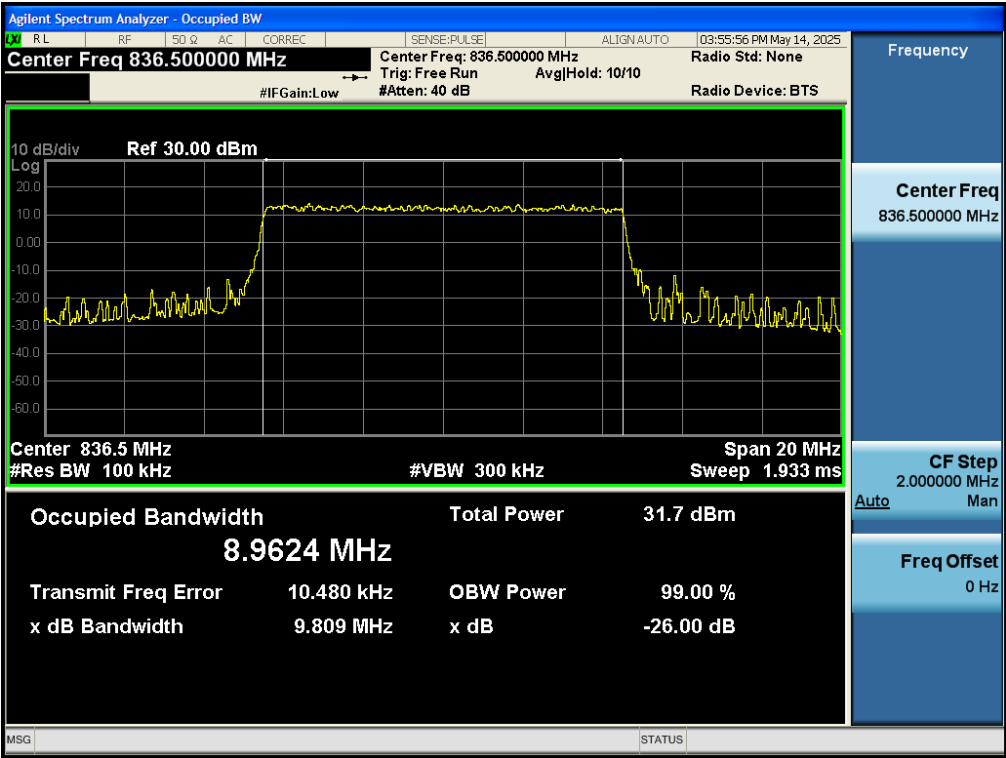
Test_Graph_band5_829MHz_10M_16QAM_50RB#LOW_OBW&EBW



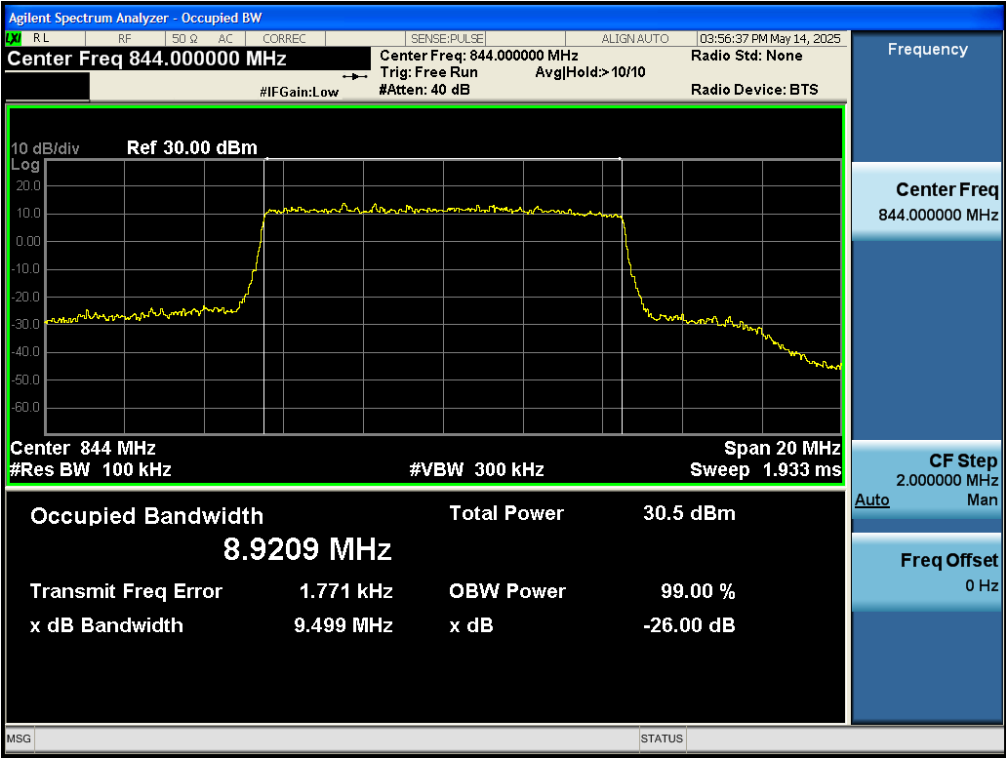
Test_Graph_band5_829MHz_10M_QPSK_50RB#LOW_OBW&EBW



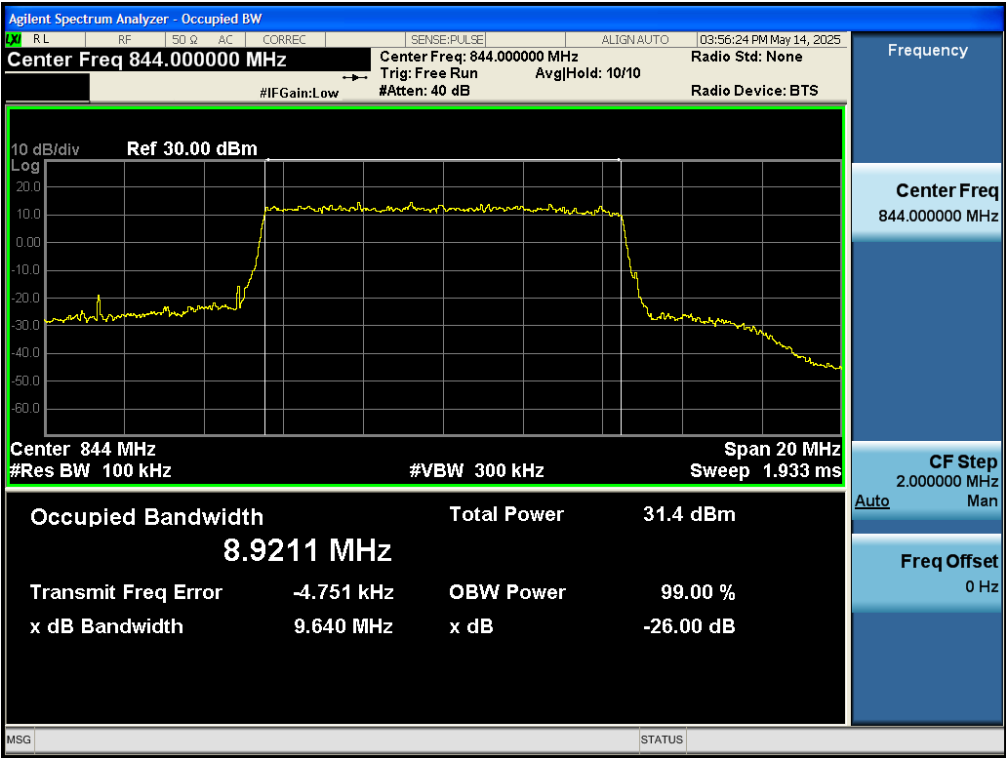
Test_Graph_band5_836.5MHz_10M_16QAM_50RB#LOW_OBW&EBW



Test_Graph_band5_836.5MHz_10M_QPSK_50RB#LOW_OBW&EBW



Test_Graph_band5_844MHz_10M_16QAM_50RB#LOW_OBW&EBW



Test_Graph_band5_844MHz_10M_QPSK_50RB#LOW_OBW&EBW

Appendix C: Band edge emissions

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
5	1.4	824.7	QPSK	1	LOW	Pass
5	1.4	824.7	QPSK	6	LOW	Pass
5	1.4	824.7	16QAM	1	LOW	Pass
5	1.4	824.7	16QAM	6	LOW	Pass
5	1.4	848.3	QPSK	1	HIGH	Pass
5	1.4	848.3	QPSK	6	LOW	Pass
5	1.4	848.3	16QAM	1	HIGH	Pass
5	1.4	848.3	16QAM	6	LOW	Pass
5	3	825.5	QPSK	1	LOW	Pass
5	3	825.5	QPSK	15	LOW	Pass
5	3	825.5	16QAM	1	LOW	Pass
5	3	825.5	16QAM	15	LOW	Pass
5	3	847.5	QPSK	1	HIGH	Pass
5	3	847.5	QPSK	15	LOW	Pass
5	3	847.5	16QAM	1	HIGH	Pass
5	3	847.5	16QAM	15	LOW	Pass
5	5	826.5	QPSK	1	LOW	Pass
5	5	826.5	QPSK	25	LOW	Pass
5	5	826.5	16QAM	1	LOW	Pass
5	5	826.5	16QAM	25	LOW	Pass
5	5	846.5	QPSK	1	HIGH	Pass
5	5	846.5	QPSK	25	LOW	Pass
5	5	846.5	16QAM	1	HIGH	Pass
5	5	846.5	16QAM	25	LOW	Pass
5	10	829	QPSK	1	LOW	Pass
5	10	829	QPSK	50	LOW	Pass
5	10	829	16QAM	1	LOW	Pass
5	10	829	16QAM	50	LOW	Pass
5	10	844	QPSK	1	HIGH	Pass
5	10	844	QPSK	50	LOW	Pass
5	10	844	16QAM	1	HIGH	Pass
5	10	844	16QAM	50	LOW	Pass

Test Graphs



Test_Graph_band5_824.7MHz_1.4M_16QAM_1RB#LOW_Band edge



Test_Graph_band5_824.7MHz_1.4M_16QAM_6RB#LOW_Band edge



Test_Graph_band5_824.7MHz_1.4M_QPSK_1RB#LOW_Band edge



Test_Graph_band5_824.7MHz_1.4M_QPSK_6RB#LOW_Band edge



Test_Graph_band5_848.3MHz_1.4M_16QAM_1RB#HIGH_Band edge



Test_Graph_band5_848.3MHz_1.4M_16QAM_6RB#LOW_Band edge



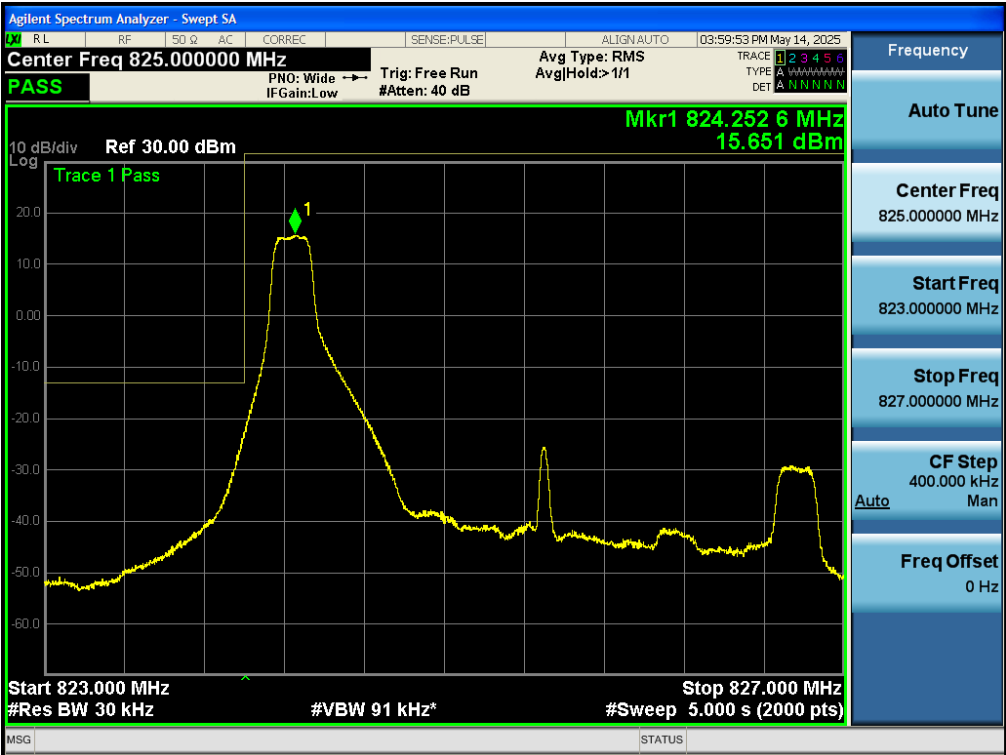
Test_Graph_band5_848.3MHz_1.4M_QPSK_1RB#HIGH_Band edge



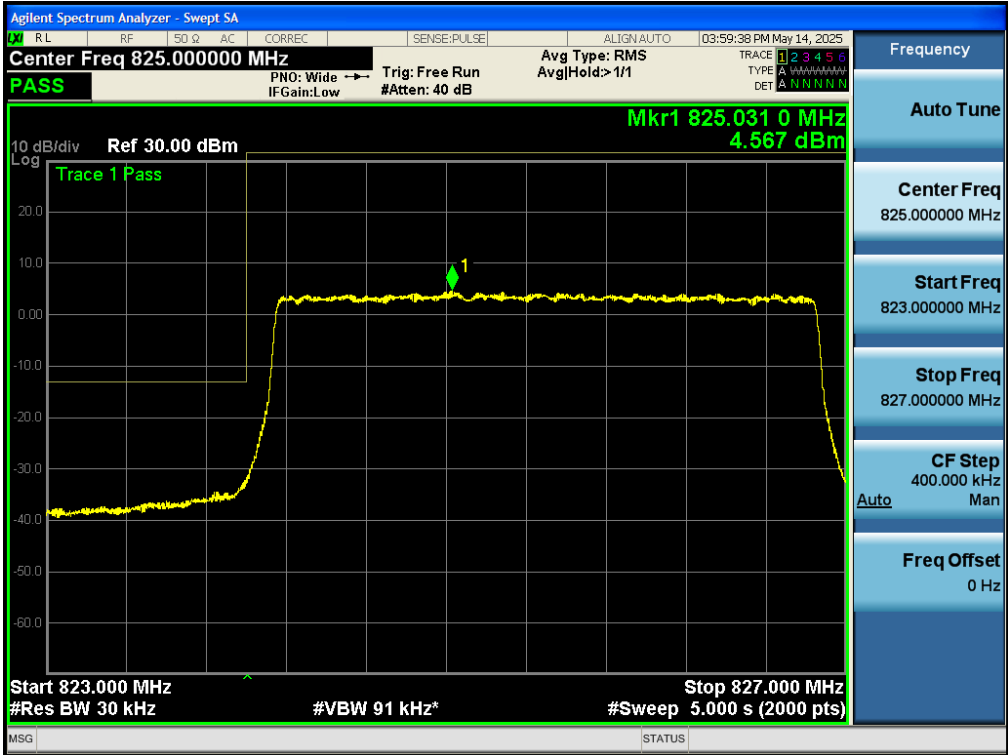
Test_Graph_band5_848.3MHz_1.4M_QPSK_6RB#LOW_Band edge



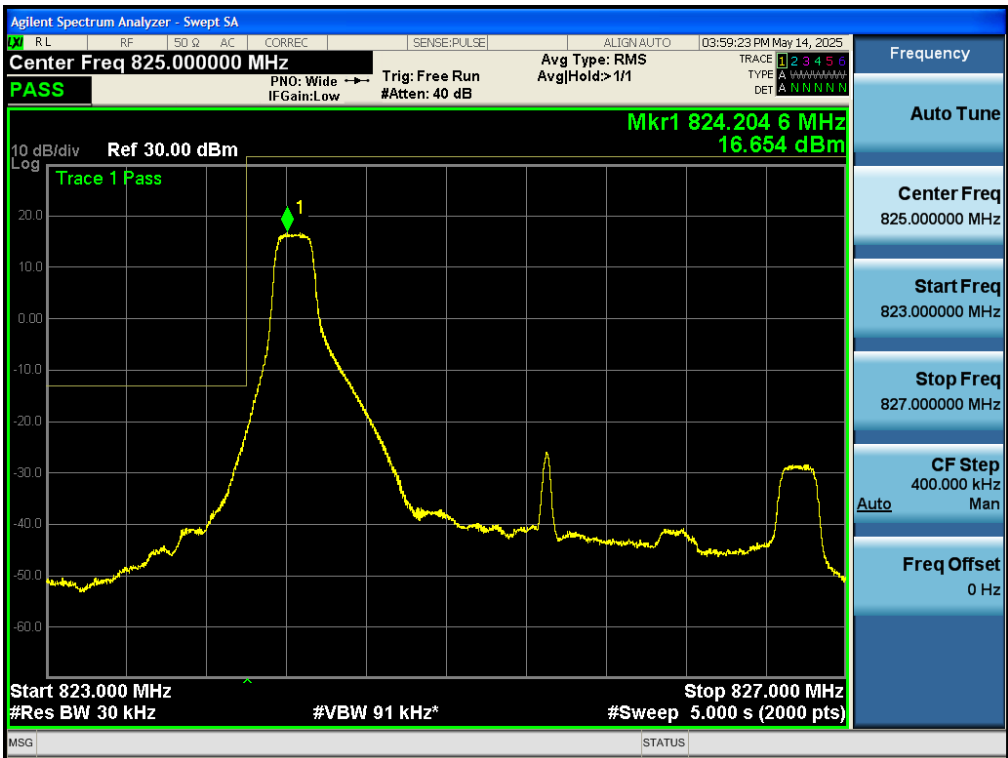
Test_Graph_band5_825.5MHz_3M_16QAM_15RB#LOW_Band edge



Test_Graph_band5_825.5MHz_3M_16QAM_1RB#LOW_Band edge



Test_Graph_band5_825.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band5_825.5MHz_3M_QPSK_1RB#LOW_Band edge



Test_Graph_band5_847.5MHz_3M_16QAM_15RB#LOW_Band edge



Test_Graph_band5_847.5MHz_3M_16QAM_1RB#HIGH_Band edge



Test_Graph_band5_847.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band5_847.5MHz_3M_QPSK_1RB#HIGH_Band edge



Test_Graph_band5_826.5MHz_5M_16QAM_1RB#LOW_Band edge



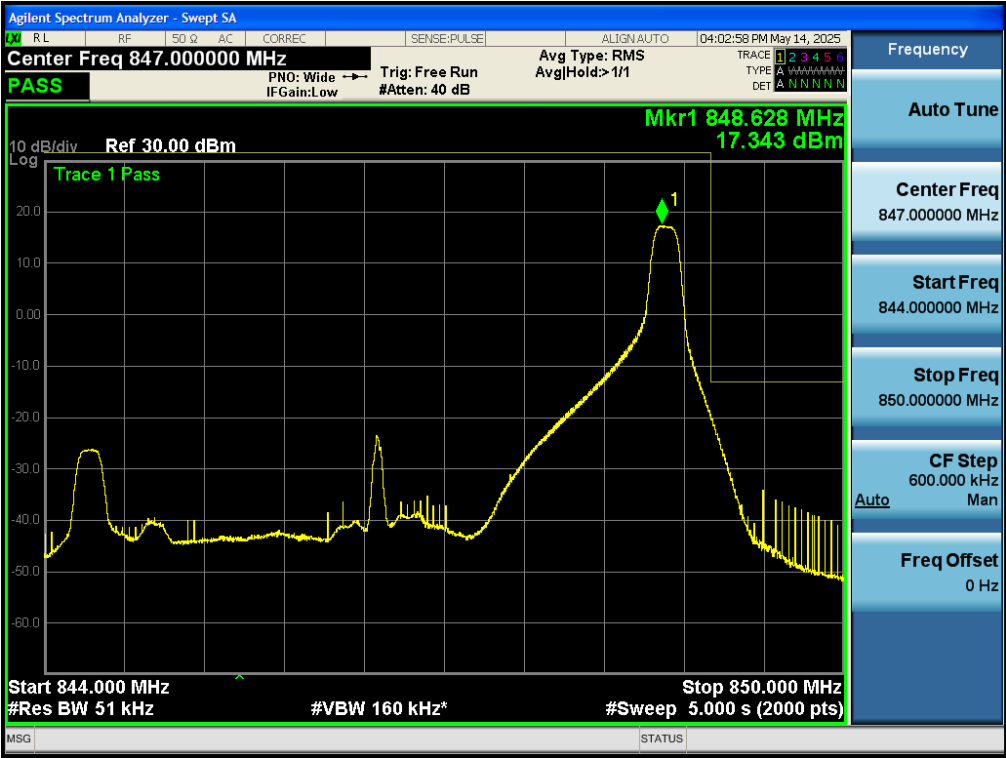
Test_Graph_band5_826.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band5_826.5MHz_5M_QPSK_1RB#LOW_Band edge



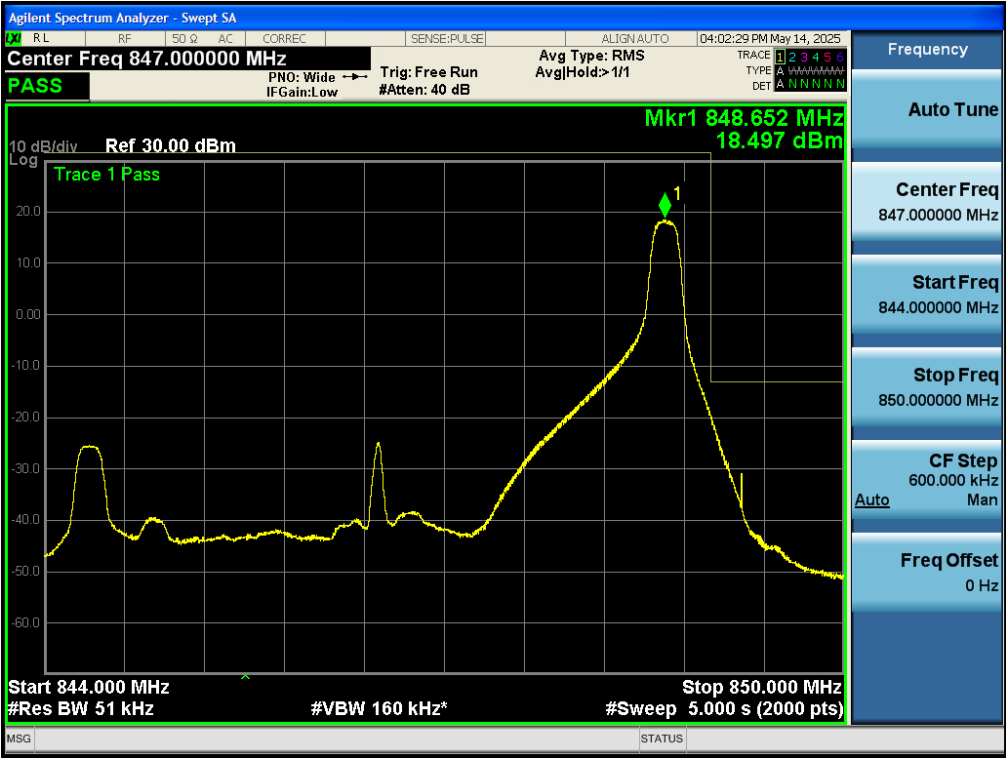
Test_Graph_band5_826.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band5_846.5MHz_5M_16QAM_1RB#HIGH_Band edge



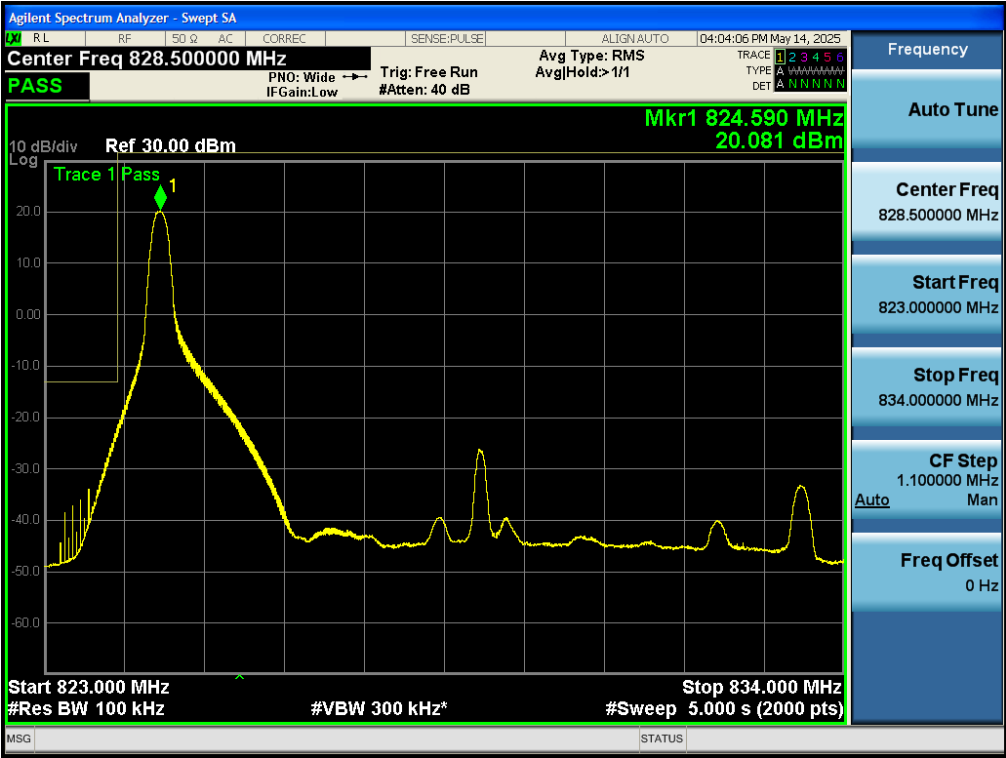
Test_Graph_band5_846.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band5_846.5MHz_5M_QPSK_1RB#HIGH_Band edge



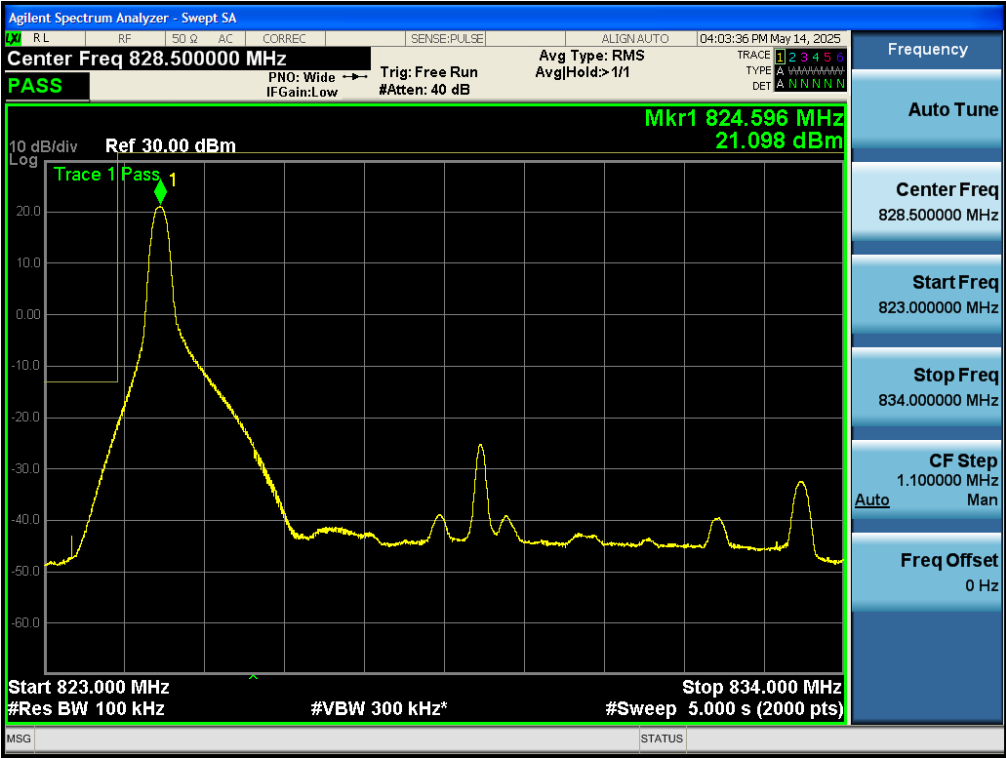
Test_Graph_band5_846.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band5_829MHz_10M_16QAM_1RB#LOW_Band edge



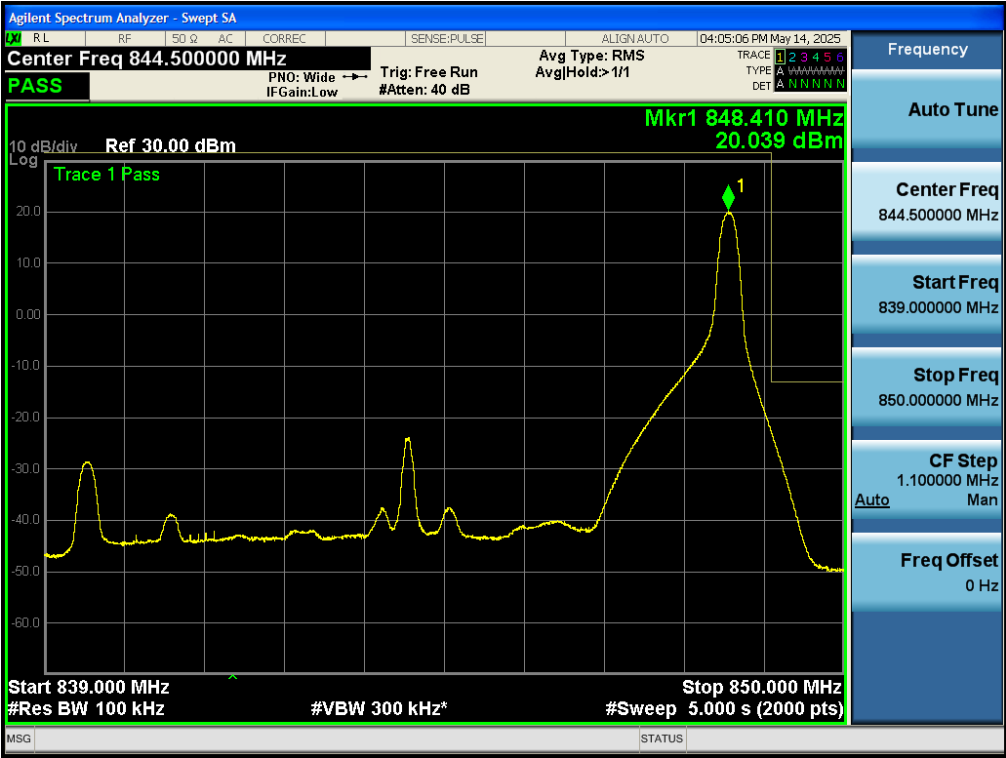
Test_Graph_band5_829MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band5_829MHz_10M_QPSK_1RB#LOW_Band edge



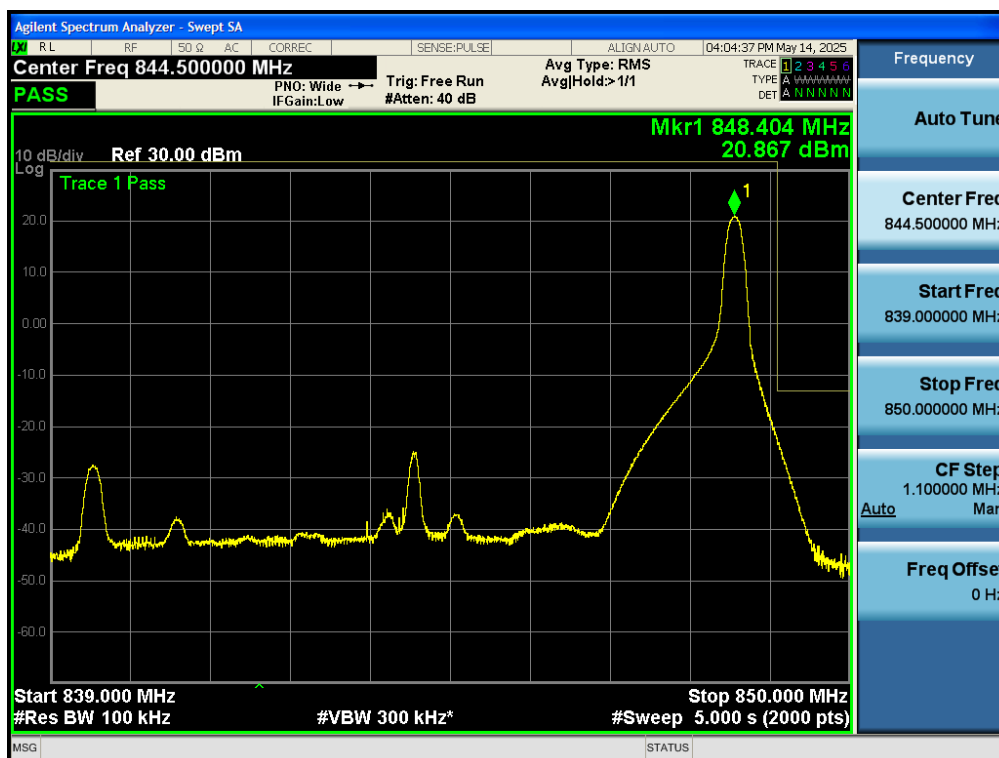
Test_Graph_band5_829MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band5_844MHz_10M_16QAM_1RB#HIGH_Band edge



Test_Graph_band5_844MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band5_844MHz_10M_QPSK_1RB#HIGH_Band edge



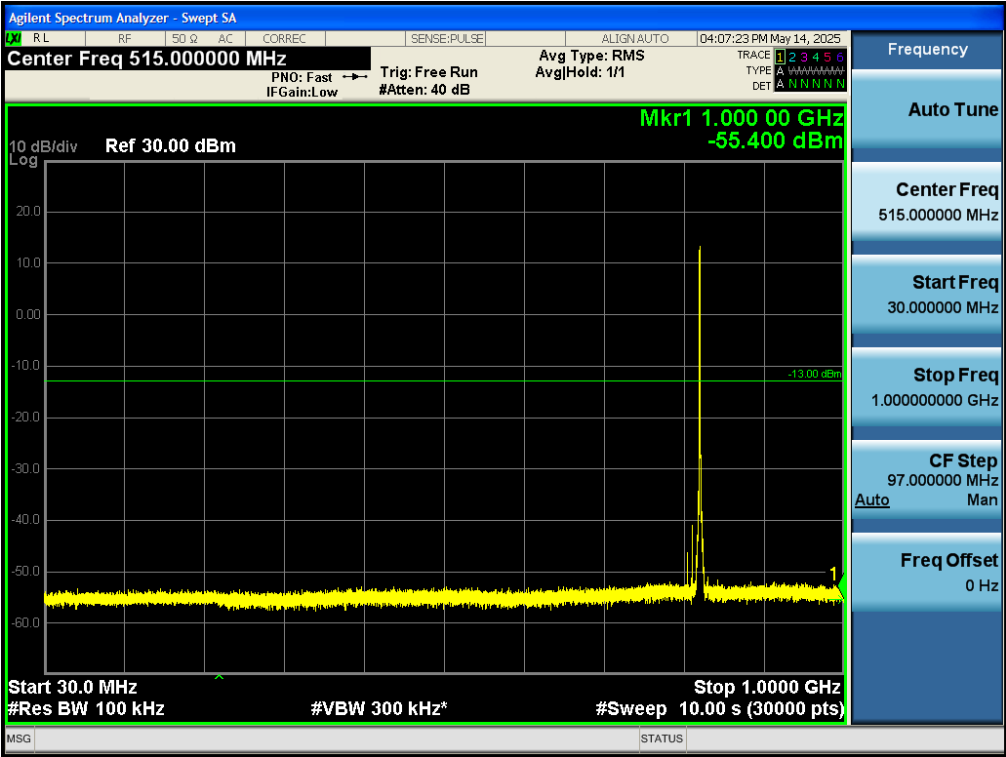
Test_Graph_band5_844MHz_10M_QPSK_50RB#LOW_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
5	1.4	824.7	QPSK	6	LOW	Pass
5	1.4	836.5	QPSK	6	LOW	Pass
5	1.4	848.3	QPSK	6	LOW	Pass
5	3	825.5	QPSK	15	LOW	Pass
5	3	836.5	QPSK	15	LOW	Pass
5	3	847.5	QPSK	15	LOW	Pass
5	5	826.5	QPSK	25	LOW	Pass
5	5	836.5	QPSK	25	LOW	Pass
5	5	846.5	QPSK	25	LOW	Pass
5	10	829	QPSK	50	LOW	Pass
5	10	836.5	QPSK	50	LOW	Pass
5	10	844	QPSK	50	LOW	Pass

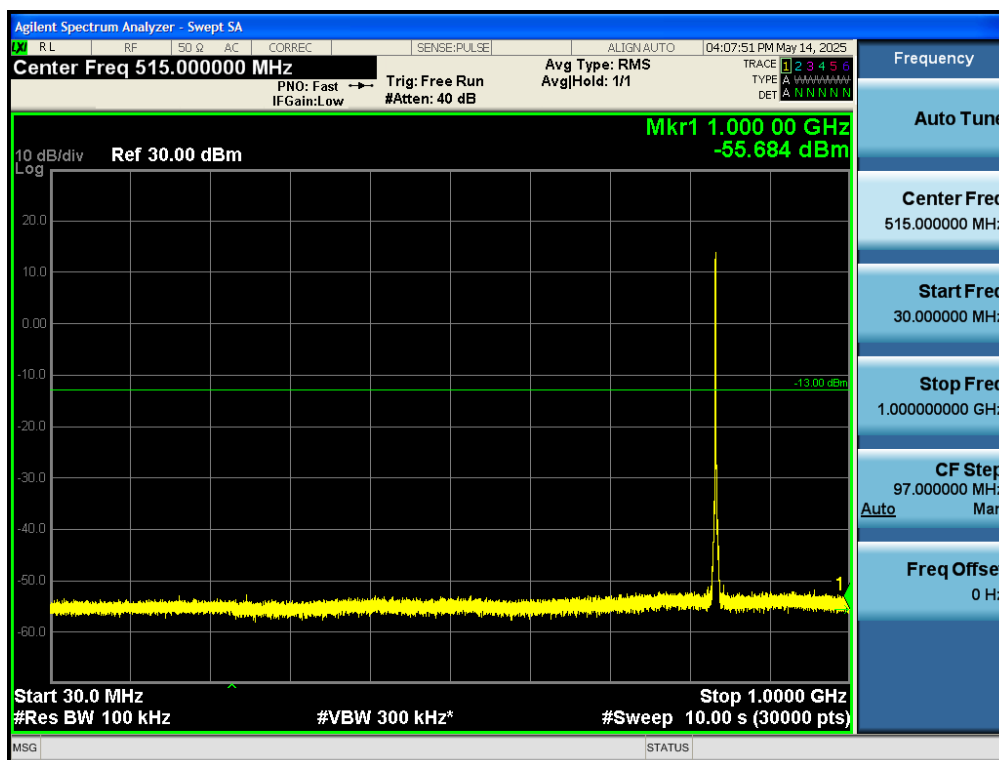
Test Graphs



Test_Graph_band5_824.7MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



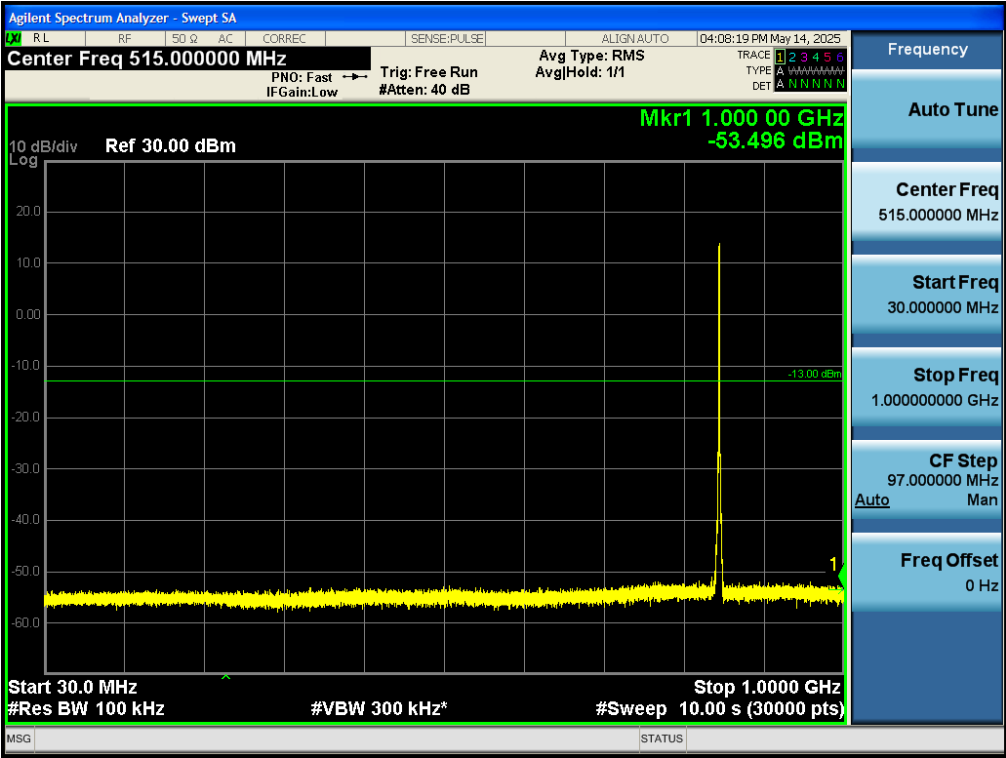
Test_Graph_band5_824.7MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



Test_Graph_band5_836.5MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



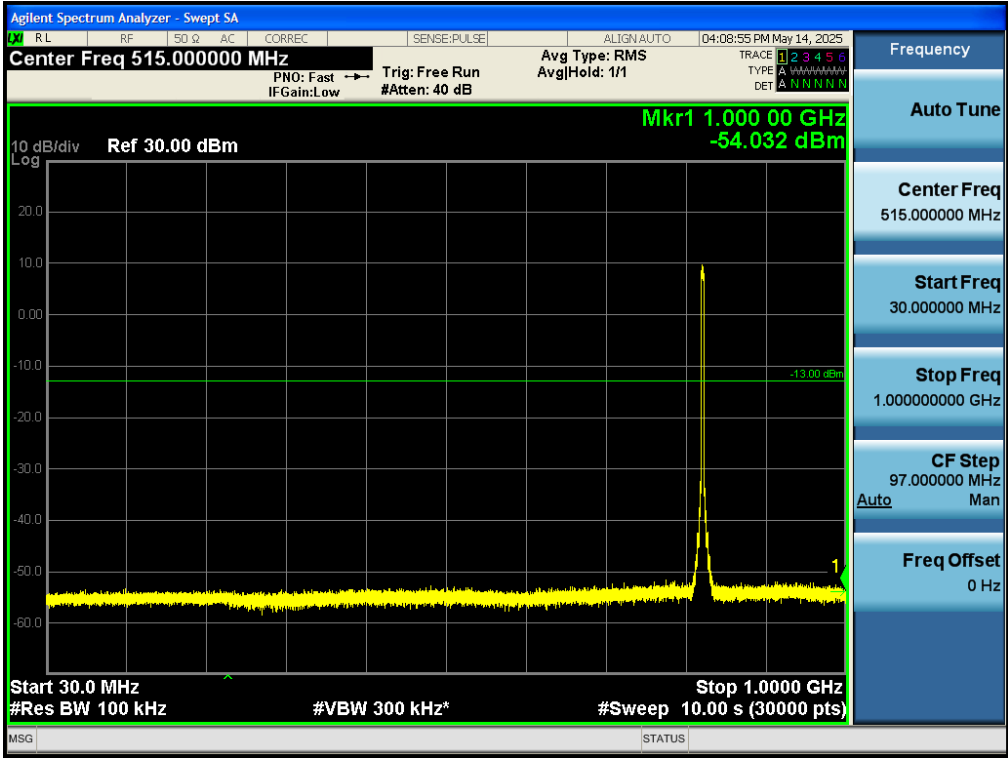
Test_Graph_band5_836.5MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



Test_Graph_band5_848.3MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



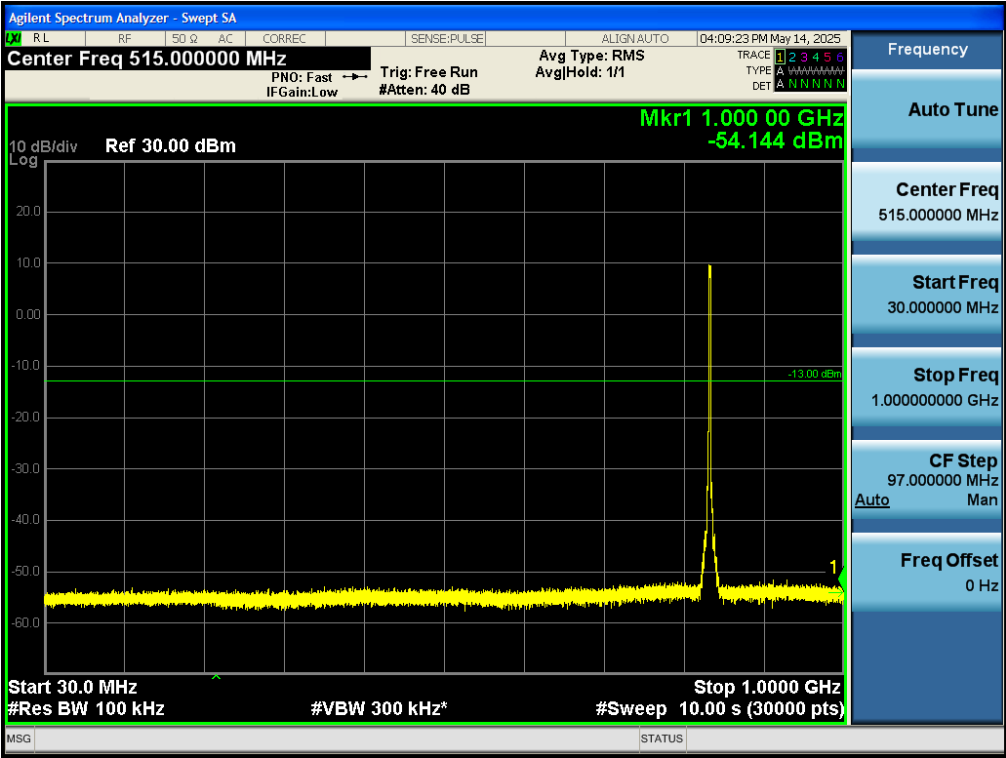
Test_Graph_band5_848.3MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



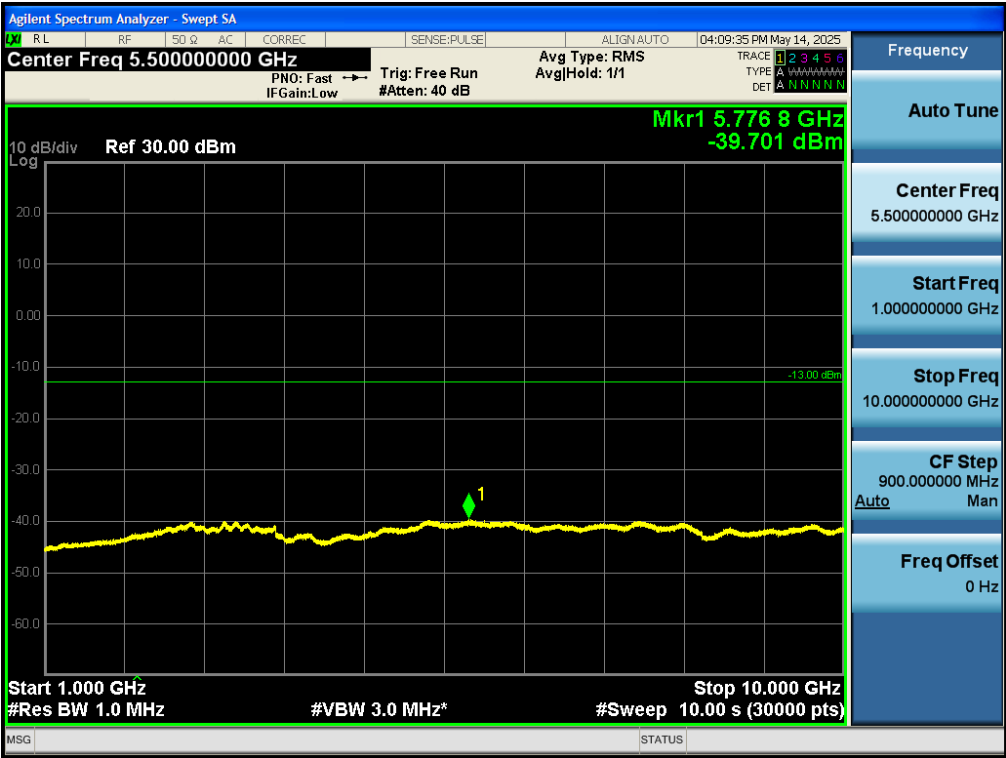
Test_Graph_band5_825.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



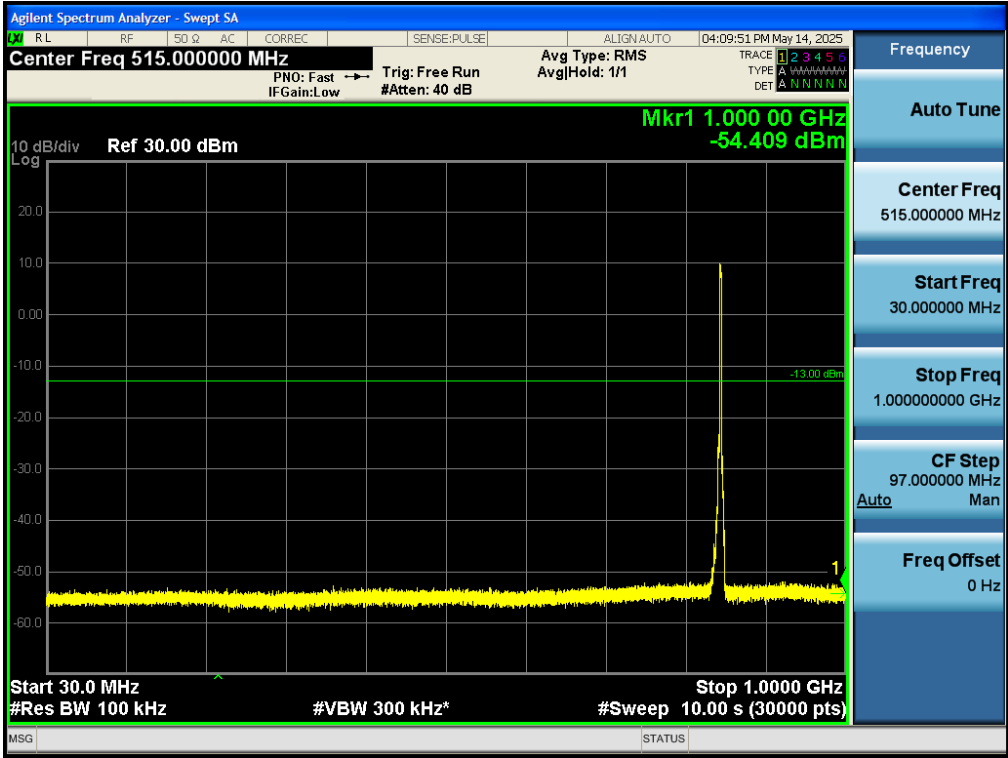
Test_Graph_band5_825.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



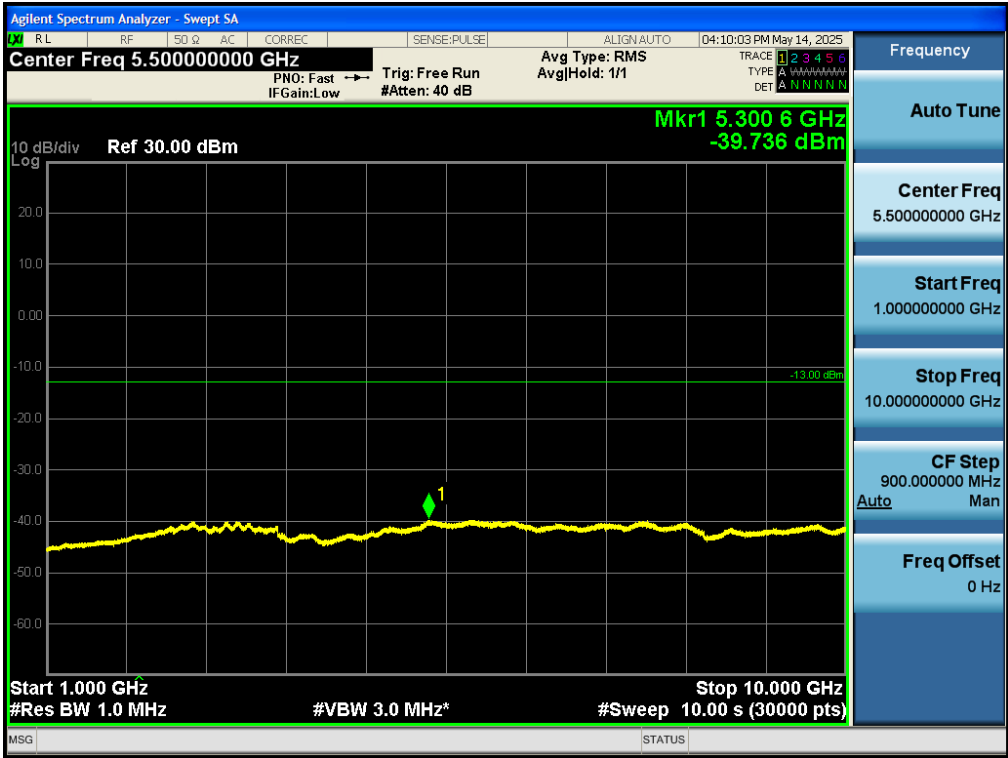
Test_Graph_band5_836.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



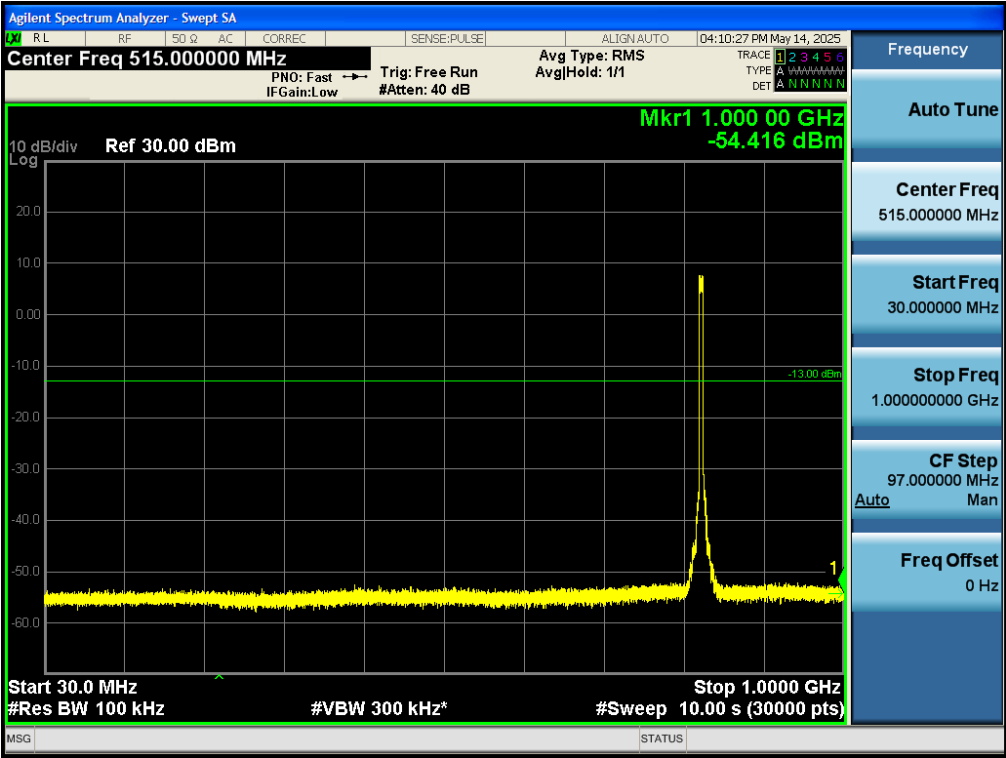
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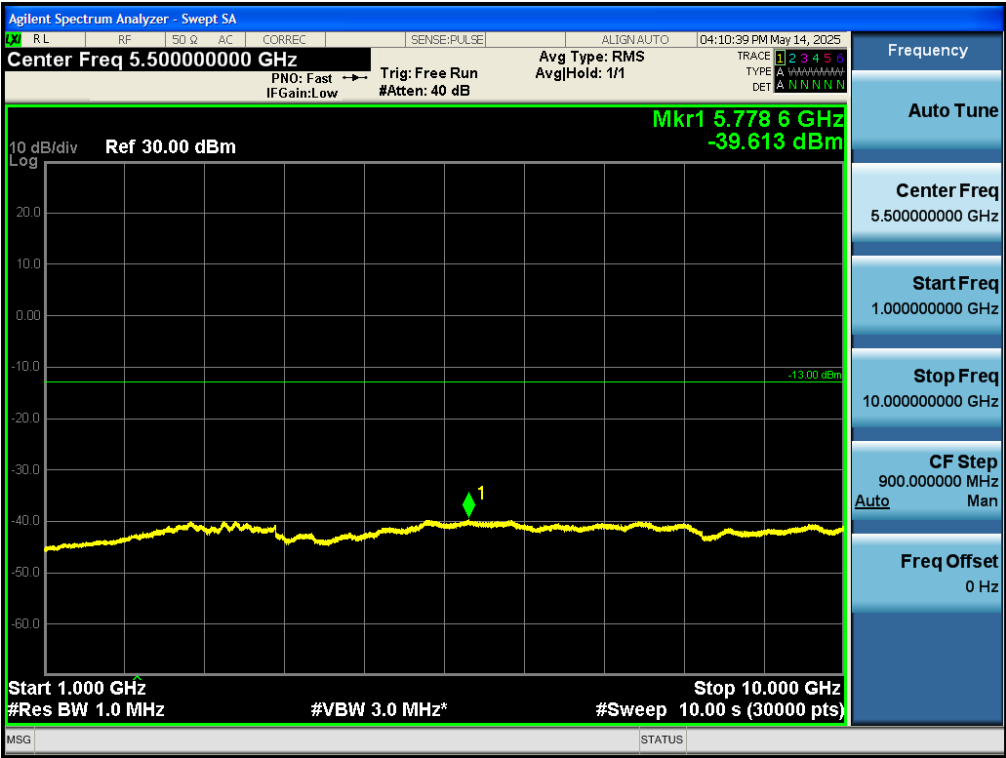
Test_Graph_band5_847.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



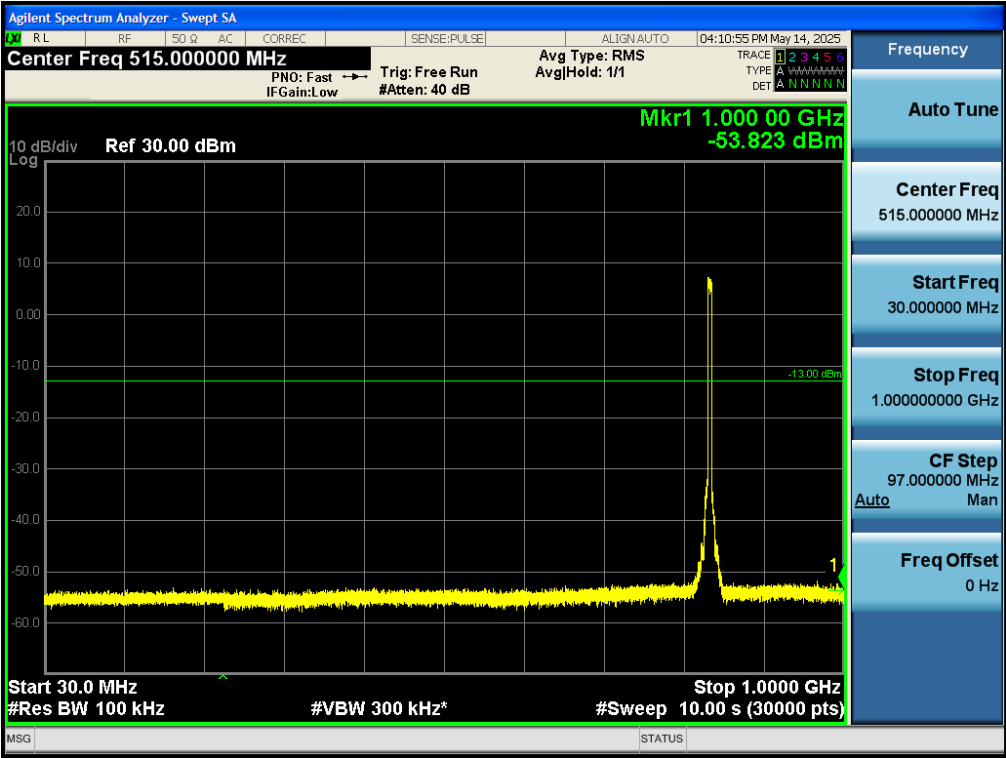
Test_Graph_band5_847.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band5_826.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



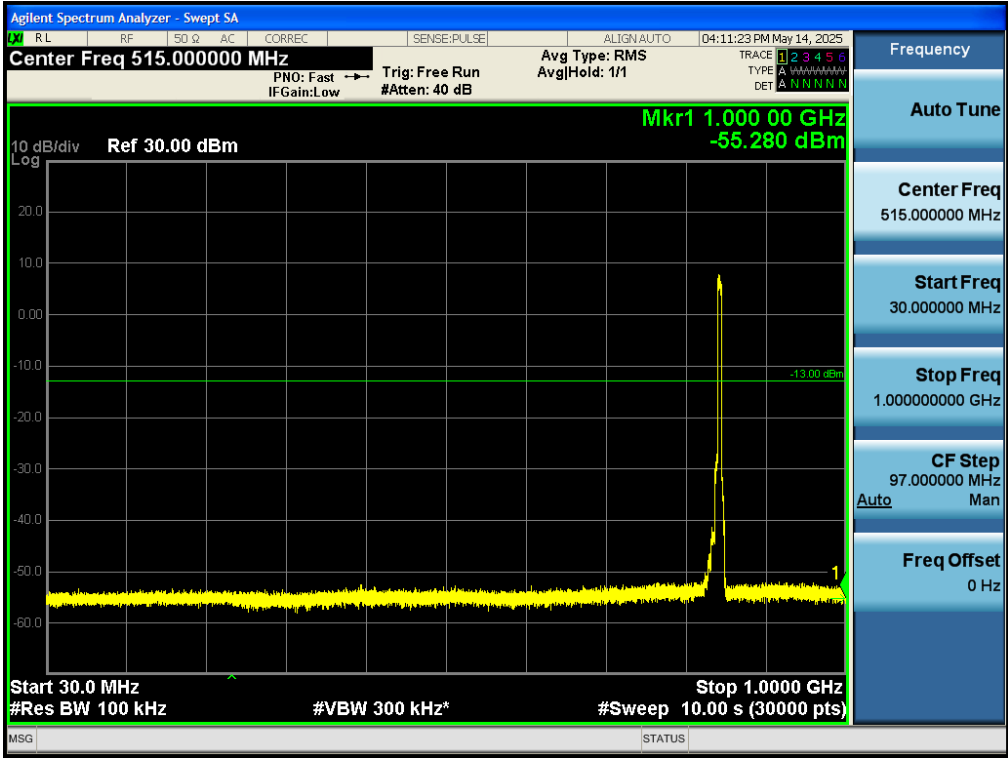
Test_Graph_band5_826.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



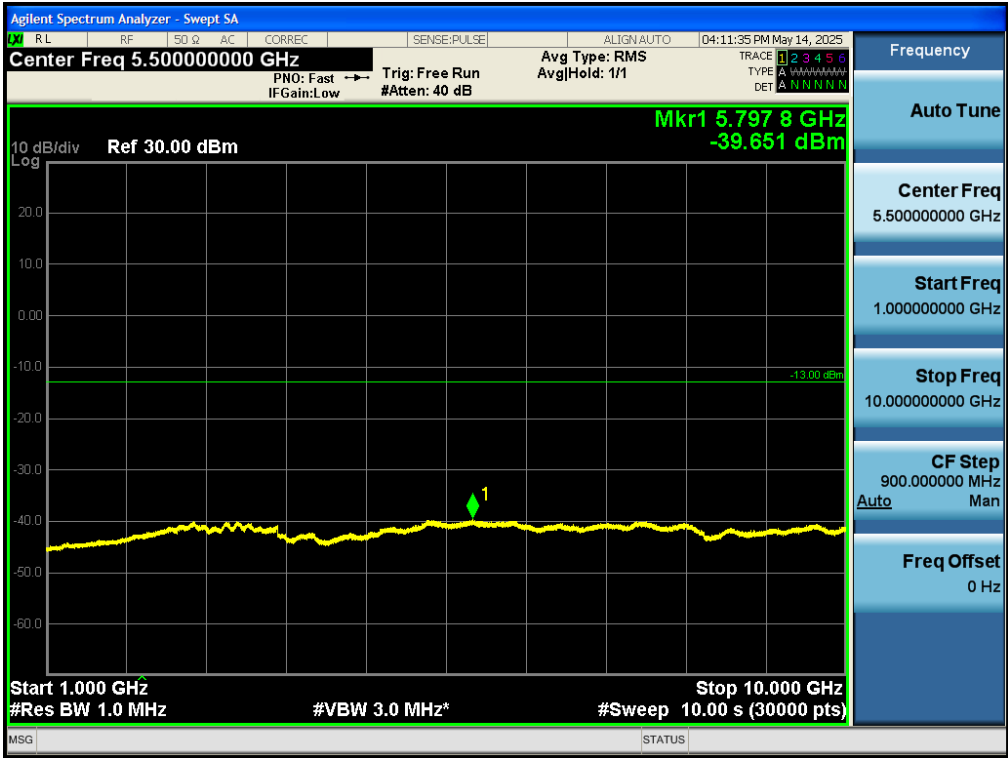
Test_Graph_band5_836.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



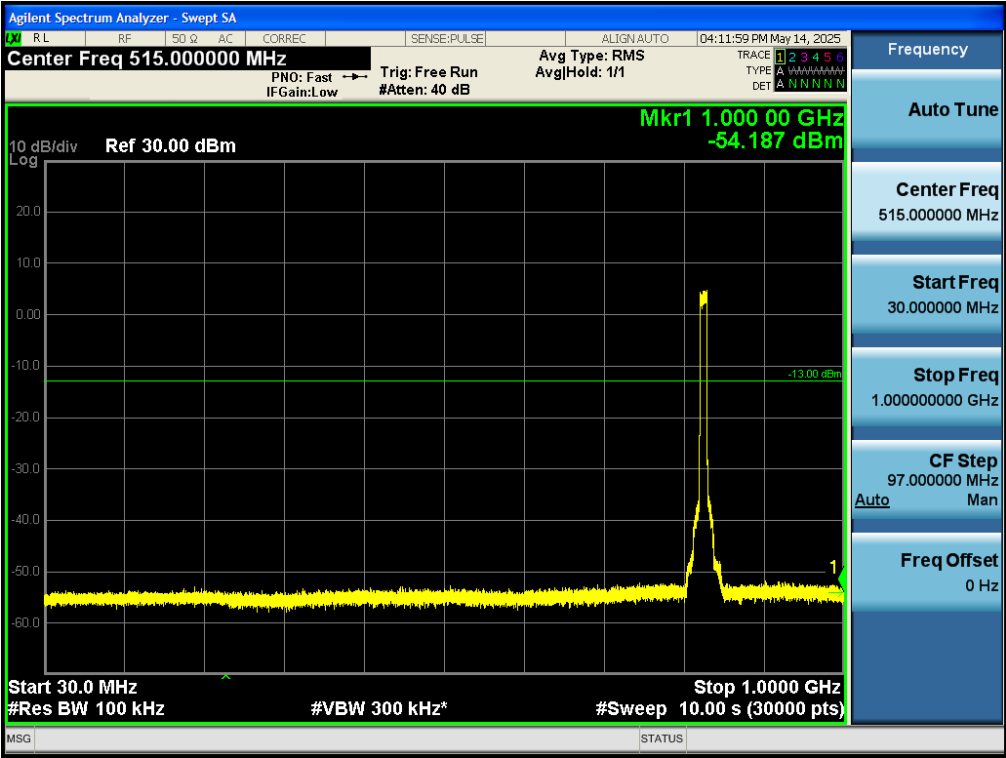
Test_Graph_band5_836.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



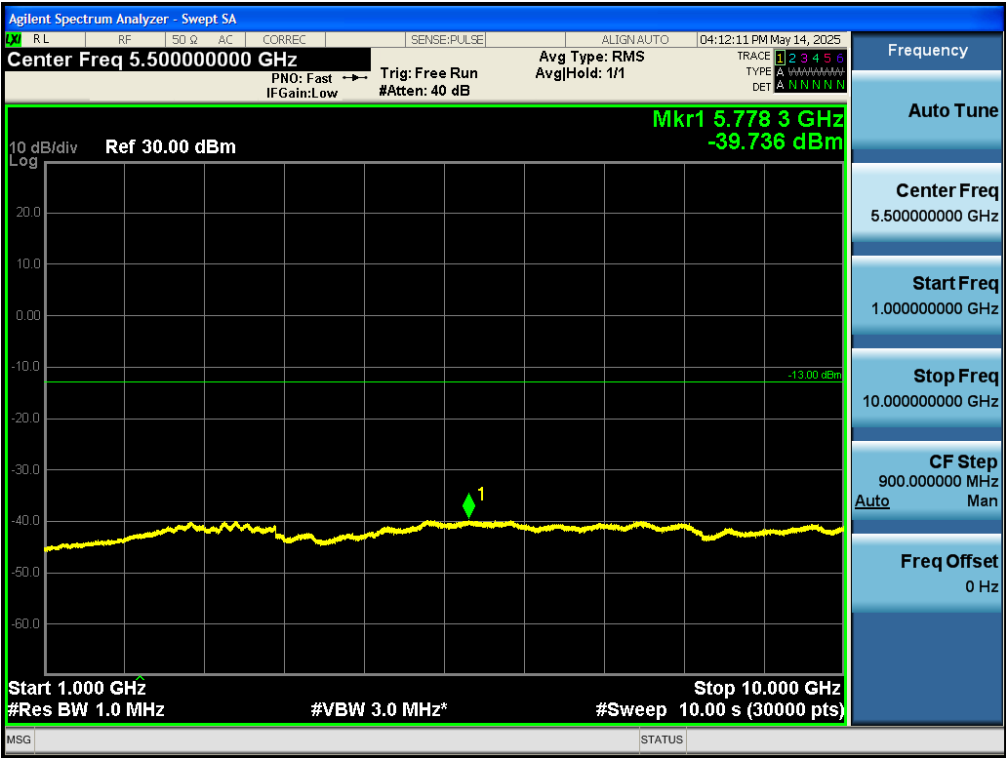
Test_Graph_band5_846.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



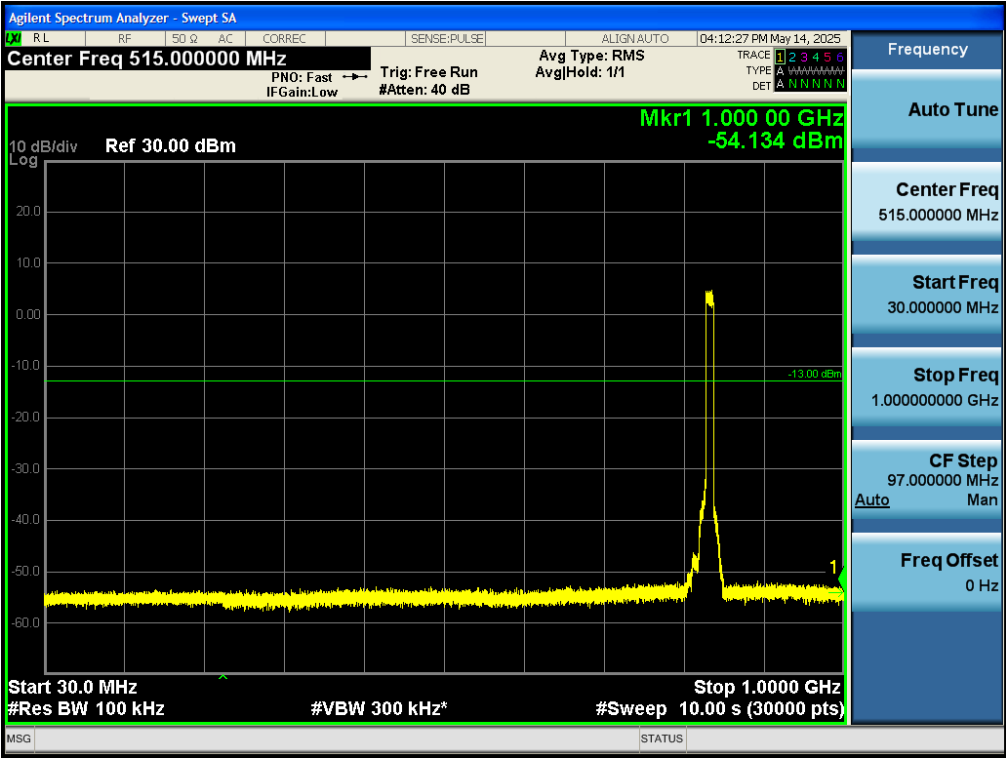
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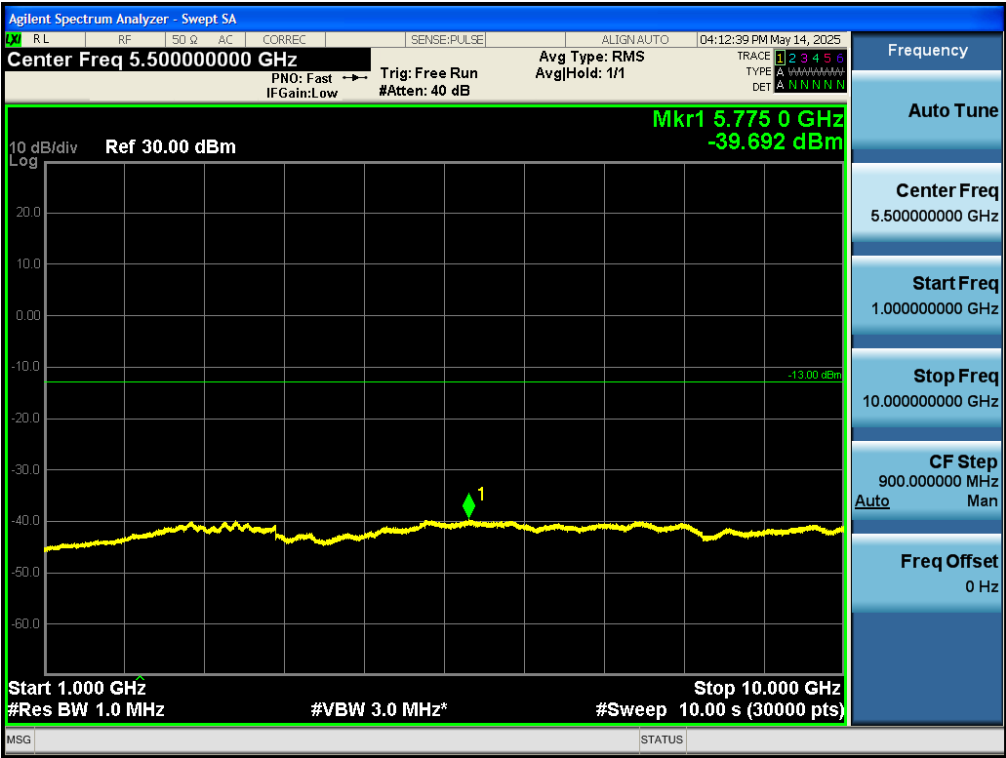
Test_Graph_band5_829MHz_10M_QPSK_50RB#LOW_30M_1G_TX



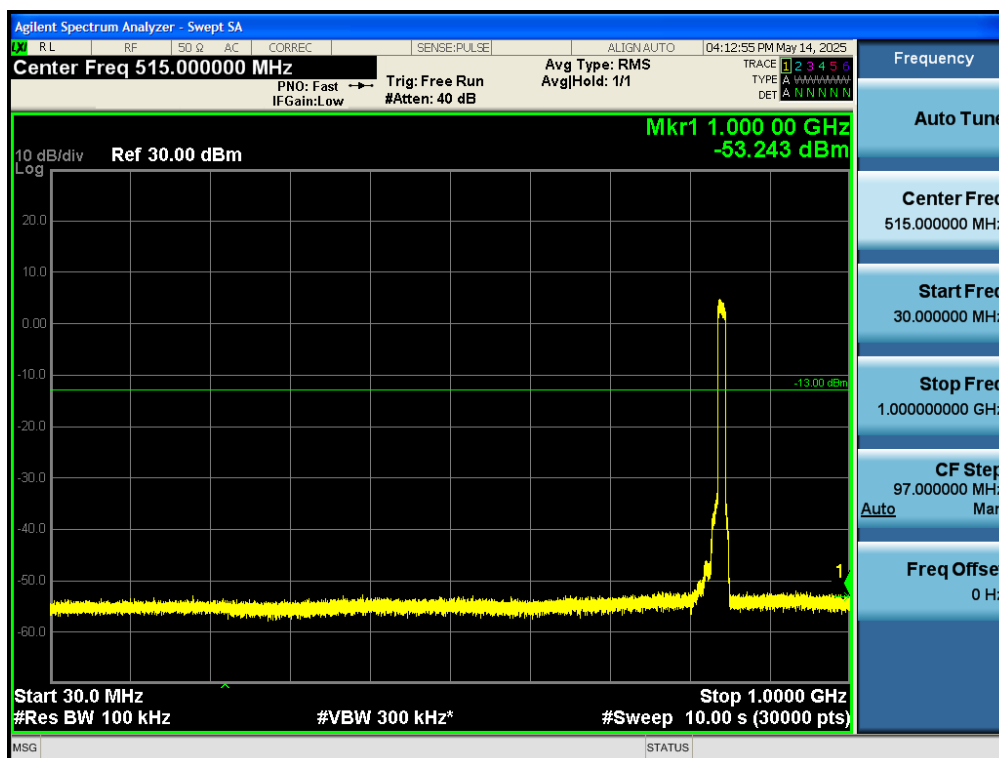
Test_Graph_band5_829MHz_10M_QPSK_50RB#LOW_1G_10G_TX



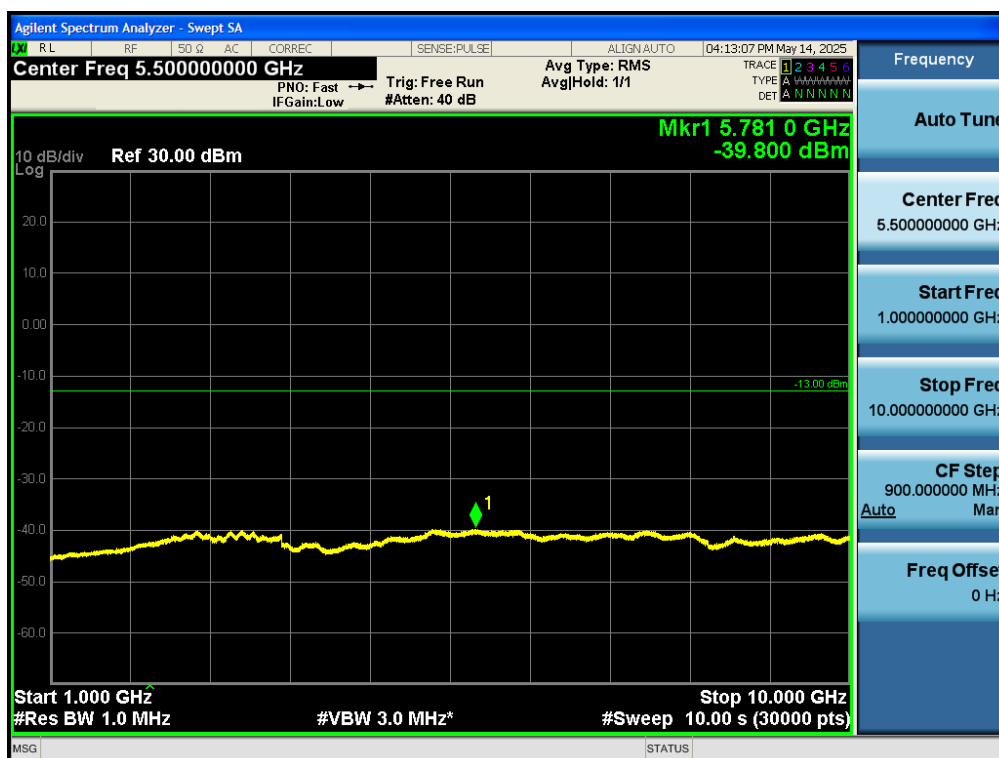
Test_Graph_band5_836.5MHz_10M_QPSK_50RB#LOW_30M_1G_TX



Test_Graph_band5_836.5MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band5_844MHz_10M_QPSK_50RB#LOW_30M_1G_TX



Test_Graph_band5_844MHz_10M_QPSK_50RB#LOW_1G_10G_TX

Appendix E: Frequency stability

Test Result

Test Conditions (LTE Band 5(QPSK) /BW 10MHz)		Frequency Range		Frequency Error	Verdict
Temperature (°C)	Voltage (Volt)	>824 Freq Reading @ Low End (MHz)	<849 Freq Reading @ High End (MHz)	Middle Channel	
				≤2.5ppm	
50	Normal Voltage	824.5024	848.4095	0.0068	PASS
40	Normal Voltage	824.5026	848.4097	0.0063	
30	Normal Voltage	824.5025	848.4097	0.0069	
20(Ref.)	Normal Voltage	824.5025	848.4096	0.0066	
10	Normal Voltage	824.5026	848.4096	0.0061	
0	Normal Voltage	824.5024	848.4097	0.0069	
-10	Normal Voltage	824.5026	848.4095	0.0069	
-20	Normal Voltage	824.5026	848.4096	0.0068	
-30	Normal Voltage	824.5026	848.4096	0.0067	
20	+15%	824.5026	848.4096	0.0068	
20	-15%	824.5025	848.4096	0.0062	
20	Battery End Point	824.5024	848.4097	0.0070	