

Appendix Test Data for LTE band 41(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
41	5	2498.5	QPSK	25	LOW	20.52	26.2	5.68	13	2.59	23.11	33	Pass
41	5	2498.5	QPSK	12	LOW	20.49	26.07	5.58	13	2.59	23.08	33	Pass
41	5	2498.5	QPSK	12	MID	20.49	25.91	5.42	13	2.59	23.08	33	Pass
41	5	2498.5	QPSK	12	HIGH	20.55	26.12	5.57	13	2.59	23.14	33	Pass
41	5	2498.5	QPSK	1	LOW	20.45	24.99	4.54	13	2.59	23.04	33	Pass
41	5	2498.5	QPSK	1	MID	20.59	25.1	4.51	13	2.59	23.18	33	Pass
41	5	2498.5	QPSK	1	HIGH	20.49	25.1	4.61	13	2.59	23.08	33	Pass
41	5	2498.5	16QAM	25	LOW	20.51	26.51	6	13	2.59	23.1	33	Pass
41	5	2498.5	16QAM	12	LOW	20.54	25.99	5.45	13	2.59	23.13	33	Pass
41	5	2498.5	16QAM	12	MID	20.52	25.93	5.41	13	2.59	23.11	33	Pass
41	5	2498.5	16QAM	12	HIGH	20.62	26.05	5.43	13	2.59	23.21	33	Pass
41	5	2498.5	16QAM	1	LOW	20.59	25.18	4.59	13	2.59	23.18	33	Pass
41	5	2498.5	16QAM	1	MID	20.62	25.24	4.62	13	2.59	23.21	33	Pass
41	5	2498.5	16QAM	1	HIGH	20.52	25.24	4.72	13	2.59	23.11	33	Pass
41	5	2593	QPSK	25	LOW	20.14	25.94	5.80	13	2.59	22.73	33	Pass
41	5	2593	QPSK	12	LOW	20.08	25.49	5.41	13	2.59	22.67	33	Pass
41	5	2593	QPSK	12	MID	20.07	25.56	5.49	13	2.59	22.66	33	Pass
41	5	2593	QPSK	12	HIGH	20.13	25.57	5.44	13	2.59	22.72	33	Pass
41	5	2593	QPSK	1	LOW	20.06	24.9	4.84	13	2.59	22.65	33	Pass
41	5	2593	QPSK	1	MID	20.2	24.96	4.76	13	2.59	22.79	33	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
41	5	2593	QPSK	1	HIGH	20.07	24.9	4.83	13	2.59	22.66	33	Pass
41	5	2593	16QAM	25	LOW	20.11	26.41	6.30	13	2.59	22.7	33	Pass
41	5	2593	16QAM	12	LOW	20.08	26.05	5.97	13	2.59	22.67	33	Pass
41	5	2593	16QAM	12	MID	20.13	26.1	5.97	13	2.59	22.72	33	Pass
41	5	2593	16QAM	12	HIGH	20.07	26.05	5.98	13	2.59	22.66	33	Pass
41	5	2593	16QAM	1	LOW	20.07	25.39	5.32	13	2.59	22.66	33	Pass
41	5	2593	16QAM	1	MID	20.2	25.44	5.24	13	2.59	22.79	33	Pass
41	5	2593	16QAM	1	HIGH	20.08	25.4	5.32	13	2.59	22.67	33	Pass
41	5	2687.5	QPSK	25	LOW	20.87	26.33	5.46	13	2.59	23.46	33	Pass
41	5	2687.5	QPSK	12	LOW	20.84	25.84	5	13	2.59	23.43	33	Pass
41	5	2687.5	QPSK	12	MID	20.84	25.78	4.94	13	2.59	23.43	33	Pass
41	5	2687.5	QPSK	12	HIGH	20.82	25.84	5.02	13	2.59	23.41	33	Pass
41	5	2687.5	QPSK	1	LOW	20.84	24.97	4.13	13	2.59	23.43	33	Pass
41	5	2687.5	QPSK	1	MID	20.93	25.01	4.08	13	2.59	23.52	33	Pass
41	5	2687.5	QPSK	1	HIGH	20.81	24.96	4.15	13	2.59	23.4	33	Pass
41	5	2687.5	16QAM	25	LOW	20.81	26.55	5.74	13	2.59	23.4	33	Pass
41	5	2687.5	16QAM	12	LOW	20.8	25.88	5.08	13	2.59	23.39	33	Pass
41	5	2687.5	16QAM	12	MID	20.85	26.05	5.20	13	2.59	23.44	33	Pass
41	5	2687.5	16QAM	12	HIGH	20.86	26.07	5.21	13	2.59	23.45	33	Pass
41	5	2687.5	16QAM	1	LOW	21.03	25.14	4.11	13	2.59	23.62	33	Pass
41	5	2687.5	16QAM	1	MID	21.11	25.18	4.07	13	2.59	23.7	33	Pass
41	5	2687.5	16QAM	1	HIGH	20.98	25.13	4.15	13	2.59	23.57	33	Pass
41	10	2501	QPSK	50	LOW	20.57	26.13	5.56	13	2.59	23.16	33	Pass
41	10	2501	QPSK	25	LOW	20.57	25.74	5.17	13	2.59	23.16	33	Pass
41	10	2501	QPSK	25	MID	20.59	25.76	5.17	13	2.59	23.18	33	Pass
41	10	2501	QPSK	25	HIGH	20.64	25.89	5.25	13	2.59	23.23	33	Pass
41	10	2501	QPSK	1	LOW	20.54	25.24	4.70	13	2.59	23.13	33	Pass
41	10	2501	QPSK	1	MID	20.85	25.52	4.67	13	2.59	23.44	33	Pass
41	10	2501	QPSK	1	HIGH	20.59	25.49	4.90	13	2.59	23.18	33	Pass
41	10	2501	16QAM	50	LOW	20.51	26.86	6.35	13	2.59	23.1	33	Pass
41	10	2501	16QAM	25	LOW	20.5	26.37	5.87	13	2.59	23.09	33	Pass
41	10	2501	16QAM	25	MID	20.54	26.44	5.90	13	2.59	23.13	33	Pass
41	10	2501	16QAM	25	HIGH	20.62	26.52	5.90	13	2.59	23.21	33	Pass
41	10	2501	16QAM	1	LOW	20.55	25.52	4.97	13	2.59	23.14	33	Pass
41	10	2501	16QAM	1	MID	20.87	25.68	4.81	13	2.59	23.46	33	Pass
41	10	2501	16QAM	1	HIGH	20.6	25.72	5.12	13	2.59	23.19	33	Pass
41	10	2593	QPSK	50	LOW	20.21	26.09	5.88	13	2.59	22.8	33	Pass
41	10	2593	QPSK	25	LOW	20.22	25.86	5.64	13	2.59	22.81	33	Pass
41	10	2593	QPSK	25	MID	20.22	25.84	5.62	13	2.59	22.81	33	Pass
41	10	2593	QPSK	25	HIGH	20.2	25.84	5.64	13	2.59	22.79	33	Pass
41	10	2593	QPSK	1	LOW	20.2	24.96	4.76	13	2.59	22.79	33	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
41	10	2593	QPSK	1	MID	20.46	25.13	4.67	13	2.59	23.05	33	Pass
41	10	2593	QPSK	1	HIGH	20.21	24.92	4.71	13	2.59	22.8	33	Pass
41	10	2593	16QAM	50	LOW	20.2	26.46	6.26	13	2.59	22.79	33	Pass
41	10	2593	16QAM	25	LOW	20.24	26.25	6.01	13	2.59	22.83	33	Pass
41	10	2593	16QAM	25	MID	20.23	26.19	5.96	13	2.59	22.82	33	Pass
41	10	2593	16QAM	25	HIGH	20.19	26.18	5.99	13	2.59	22.78	33	Pass
41	10	2593	16QAM	1	LOW	20.1	25.33	5.23	13	2.59	22.69	33	Pass
41	10	2593	16QAM	1	MID	20.38	25.28	4.90	13	2.59	22.97	33	Pass
41	10	2593	16QAM	1	HIGH	20.1	25.34	5.24	13	2.59	22.69	33	Pass
41	10	2685	QPSK	50	LOW	20.93	26.39	5.46	13	2.59	23.52	33	Pass
41	10	2685	QPSK	25	LOW	20.94	25.87	4.93	13	2.59	23.53	33	Pass
41	10	2685	QPSK	25	MID	20.94	25.89	4.95	13	2.59	23.53	33	Pass
41	10	2685	QPSK	25	HIGH	20.9	25.9	5	13	2.59	23.49	33	Pass
41	10	2685	QPSK	1	LOW	20.98	25.05	4.07	13	2.59	23.57	33	Pass
41	10	2685	QPSK	1	MID	21.19	25.24	4.05	13	2.59	23.78	33	Pass
41	10	2685	QPSK	1	HIGH	20.9	25.15	4.25	13	2.59	23.49	33	Pass
41	10	2685	16QAM	50	LOW	20.89	26.83	5.94	13	2.59	23.48	33	Pass
41	10	2685	16QAM	25	LOW	20.88	26	5.12	13	2.59	23.47	33	Pass
41	10	2685	16QAM	25	MID	20.89	25.99	5.10	13	2.59	23.48	33	Pass
41	10	2685	16QAM	25	HIGH	20.85	26.08	5.23	13	2.59	23.44	33	Pass
41	10	2685	16QAM	1	LOW	21.09	25.38	4.29	13	2.59	23.68	33	Pass
41	10	2685	16QAM	1	MID	21.35	25.53	4.18	13	2.59	23.94	33	Pass
41	10	2685	16QAM	1	HIGH	21	25.38	4.38	13	2.59	23.59	33	Pass
41	15	2503.5	QPSK	75	LOW	20.75	26.59	5.84	13	2.59	23.34	33	Pass
41	15	2503.5	QPSK	38	LOW	20.78	26.62	5.84	13	2.59	23.37	33	Pass
41	15	2503.5	QPSK	38	MID	20.79	26.6	5.81	13	2.59	23.38	33	Pass
41	15	2503.5	QPSK	38	HIGH	20.79	26.62	5.83	13	2.59	23.38	33	Pass
41	15	2503.5	QPSK	1	LOW	20.54	25.32	4.78	13	2.59	23.13	33	Pass
41	15	2503.5	QPSK	1	MID	20.73	25.52	4.79	13	2.59	23.32	33	Pass
41	15	2503.5	QPSK	1	HIGH	20.62	25.57	4.95	13	2.59	23.21	33	Pass
41	15	2503.5	16QAM	75	LOW	20.7	27.07	6.37	13	2.59	23.29	33	Pass
41	15	2503.5	16QAM	38	LOW	20.72	27.04	6.32	13	2.59	23.31	33	Pass
41	15	2503.5	16QAM	38	MID	20.72	27.12	6.40	13	2.59	23.31	33	Pass
41	15	2503.5	16QAM	38	HIGH	20.71	27.13	6.42	13	2.59	23.3	33	Pass
41	15	2503.5	16QAM	1	LOW	20.56	25.48	4.92	13	2.59	23.15	33	Pass
41	15	2503.5	16QAM	1	MID	20.75	25.75	5	13	2.59	23.34	33	Pass
41	15	2503.5	16QAM	1	HIGH	20.63	25.74	5.11	13	2.59	23.22	33	Pass
41	15	2593	QPSK	75	LOW	20.33	26.45	6.12	13	2.59	22.92	33	Pass
41	15	2593	QPSK	38	LOW	20.34	26.47	6.13	13	2.59	22.93	33	Pass
41	15	2593	QPSK	38	MID	20.35	26.49	6.14	13	2.59	22.94	33	Pass
41	15	2593	QPSK	38	HIGH	20.34	26.52	6.18	13	2.59	22.93	33	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
41	15	2593	QPSK	1	LOW	20.18	24.95	4.77	13	2.59	22.77	33	Pass
41	15	2593	QPSK	1	MID	20.35	25.06	4.71	13	2.59	22.94	33	Pass
41	15	2593	QPSK	1	HIGH	20.23	25.01	4.78	13	2.59	22.82	33	Pass
41	15	2593	16QAM	75	LOW	20.31	26.93	6.62	13	2.59	22.9	33	Pass
41	15	2593	16QAM	38	LOW	20.29	26.91	6.62	13	2.59	22.88	33	Pass
41	15	2593	16QAM	38	MID	20.3	26.96	6.66	13	2.59	22.89	33	Pass
41	15	2593	16QAM	38	HIGH	20.3	26.82	6.52	13	2.59	22.89	33	Pass
41	15	2593	16QAM	1	LOW	20.09	25.1	5.01	13	2.59	22.68	33	Pass
41	15	2593	16QAM	1	MID	20.23	25.27	5.04	13	2.59	22.82	33	Pass
41	15	2593	16QAM	1	HIGH	20.11	25.44	5.33	13	2.59	22.7	33	Pass
41	15	2682.5	QPSK	75	LOW	21.12	26.66	5.54	13	2.59	23.71	33	Pass
41	15	2682.5	QPSK	38	LOW	21.12	26.7	5.58	13	2.59	23.71	33	Pass
41	15	2682.5	QPSK	38	MID	21.11	26.65	5.54	13	2.59	23.7	33	Pass
41	15	2682.5	QPSK	38	HIGH	21.12	26.65	5.53	13	2.59	23.71	33	Pass
41	15	2682.5	QPSK	1	LOW	20.99	25.03	4.04	13	2.59	23.58	33	Pass
41	15	2682.5	QPSK	1	MID	21.08	24.98	3.90	13	2.59	23.67	33	Pass
41	15	2682.5	QPSK	1	HIGH	20.88	24.88	4	13	2.59	23.47	33	Pass
41	15	2682.5	16QAM	75	LOW	21.04	26.91	5.87	13	2.59	23.63	33	Pass
41	15	2682.5	16QAM	38	LOW	21.02	26.92	5.90	13	2.59	23.61	33	Pass
41	15	2682.5	16QAM	38	MID	21.03	26.95	5.92	13	2.59	23.62	33	Pass
41	15	2682.5	16QAM	38	HIGH	21.04	26.95	5.91	13	2.59	23.63	33	Pass
41	15	2682.5	16QAM	1	LOW	20.84	25.34	4.5	13	2.59	23.43	33	Pass
41	15	2682.5	16QAM	1	MID	21.03	25.42	4.39	13	2.59	23.62	33	Pass
41	15	2682.5	16QAM	1	HIGH	20.9	25.41	4.51	13	2.59	23.49	33	Pass
41	20	2506	QPSK	100	LOW	20.67	26.53	5.86	13	2.59	23.26	33	Pass
41	20	2506	QPSK	50	LOW	20.62	26.12	5.5	13	2.59	23.21	33	Pass
41	20	2506	QPSK	50	MID	20.64	26	5.36	13	2.59	23.23	33	Pass
41	20	2506	QPSK	50	HIGH	20.75	26.17	5.42	13	2.59	23.34	33	Pass
41	20	2506	QPSK	1	LOW	20.36	24.76	4.40	13	2.59	22.95	33	Pass
41	20	2506	QPSK	1	MID	20.99	25.2	4.21	13	2.59	23.58	33	Pass
41	20	2506	QPSK	1	HIGH	20.44	24.96	4.52	13	2.59	23.03	33	Pass
41	20	2506	16QAM	100	LOW	20.62	26.92	6.30	13	2.59	23.21	33	Pass
41	20	2506	16QAM	50	LOW	20.59	26.36	5.77	13	2.59	23.18	33	Pass
41	20	2506	16QAM	50	MID	20.56	26.35	5.79	13	2.59	23.15	33	Pass
41	20	2506	16QAM	50	HIGH	20.7	26.6	5.90	13	2.59	23.29	33	Pass
41	20	2506	16QAM	1	LOW	20.5	25	4.5	13	2.59	23.09	33	Pass
41	20	2506	16QAM	1	MID	21.11	25.42	4.31	13	2.59	23.7	33	Pass
41	20	2506	16QAM	1	HIGH	20.57	25.22	4.65	13	2.59	23.16	33	Pass
41	20	2593	QPSK	100	LOW	20.27	26.27	6	13	2.59	22.86	33	Pass
41	20	2593	QPSK	50	LOW	20.3	26.04	5.74	13	2.59	22.89	33	Pass
41	20	2593	QPSK	50	MID	20.29	26.01	5.72	13	2.59	22.88	33	Pass

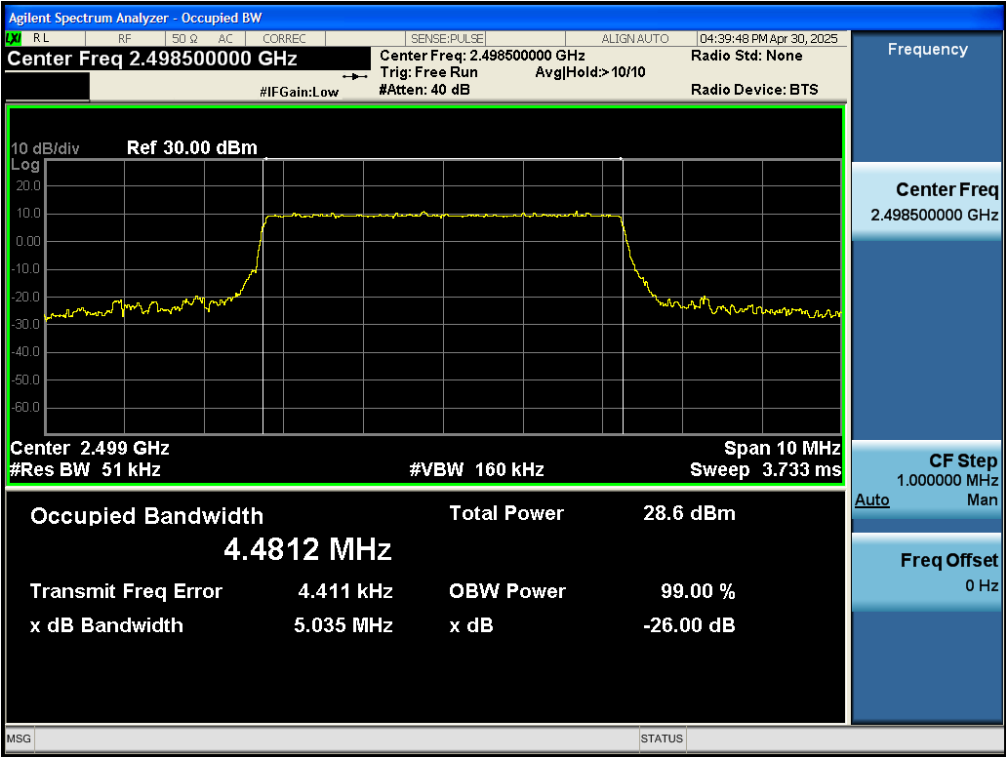
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
41	20	2593	QPSK	50	HIGH	20.3	26.03	5.73	13	2.59	22.89	33	Pass
41	20	2593	QPSK	1	LOW	19.99	24.76	4.77	13	2.59	22.58	33	Pass
41	20	2593	QPSK	1	MID	20.49	25.05	4.56	13	2.59	23.08	33	Pass
41	20	2593	QPSK	1	HIGH	20.05	24.83	4.78	13	2.59	22.64	33	Pass
41	20	2593	16QAM	100	LOW	20.24	26.82	6.58	13	2.59	22.83	33	Pass
41	20	2593	16QAM	50	LOW	20.28	26.52	6.24	13	2.59	22.87	33	Pass
41	20	2593	16QAM	50	MID	20.27	26.51	6.24	13	2.59	22.86	33	Pass
41	20	2593	16QAM	50	HIGH	20.27	26.55	6.28	13	2.59	22.86	33	Pass
41	20	2593	16QAM	1	LOW	19.9	25.06	5.16	13	2.59	22.49	33	Pass
41	20	2593	16QAM	1	MID	20.44	25.31	4.87	13	2.59	23.03	33	Pass
41	20	2593	16QAM	1	HIGH	20.15	24.95	4.80	13	2.59	22.74	33	Pass
41	20	2680	QPSK	100	LOW	20.85	26.44	5.59	13	2.59	23.44	33	Pass
41	20	2680	QPSK	50	LOW	20.85	25.83	4.98	13	2.59	23.44	33	Pass
41	20	2680	QPSK	50	MID	20.87	25.92	5.05	13	2.59	23.46	33	Pass
41	20	2680	QPSK	50	HIGH	20.9	25.91	5.01	13	2.59	23.49	33	Pass
41	20	2680	QPSK	1	LOW	20.69	24.97	4.28	13	2.59	23.28	33	Pass
41	20	2680	QPSK	1	MID	21.15	25.21	4.06	13	2.59	23.74	33	Pass
41	20	2680	QPSK	1	HIGH	20.57	25.01	4.44	13	2.59	23.16	33	Pass
41	20	2680	16QAM	100	LOW	20.81	26.84	6.03	13	2.59	23.4	33	Pass
41	20	2680	16QAM	50	LOW	20.81	26.22	5.41	13	2.59	23.4	33	Pass
41	20	2680	16QAM	50	MID	20.82	26.24	5.42	13	2.59	23.41	33	Pass
41	20	2680	16QAM	50	HIGH	20.87	26.32	5.45	13	2.59	23.46	33	Pass
41	20	2680	16QAM	1	LOW	20.63	25.14	4.51	13	2.59	23.22	33	Pass
41	20	2680	16QAM	1	MID	21.07	25.34	4.27	13	2.59	23.66	33	Pass
41	20	2680	16QAM	1	HIGH	20.51	25.21	4.70	13	2.59	23.1	33	Pass

Appendix B: Occupied bandwidth

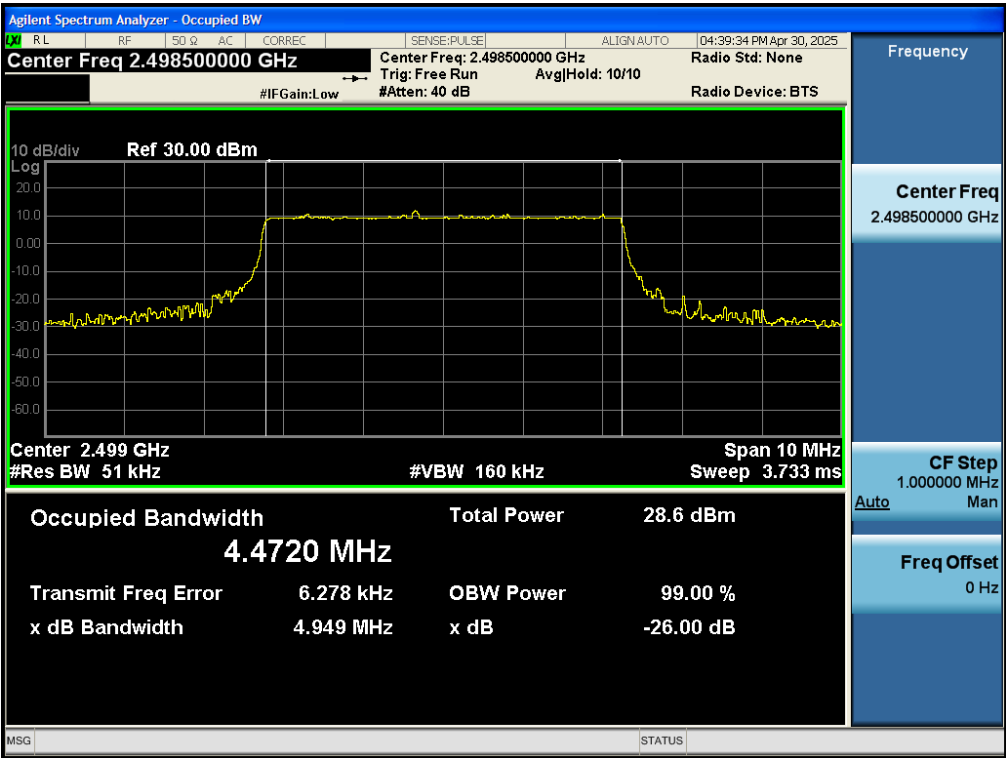
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
41	5	2498.5	QPSK	25	LOW	4.472	4.949	No limit
41	5	2498.5	16QAM	25	LOW	4.481	5.035	No limit
41	5	2593	QPSK	25	LOW	4.47	5.045	No limit
41	5	2593	16QAM	25	LOW	4.47	5.07	No limit
41	5	2687.5	QPSK	25	LOW	4.488	4.888	No limit
41	5	2687.5	16QAM	25	LOW	4.473	4.981	No limit
41	10	2501	QPSK	50	LOW	8.969	10.323	No limit
41	10	2501	16QAM	50	LOW	8.969	9.623	No limit
41	10	2593	QPSK	50	LOW	8.957	9.939	No limit
41	10	2593	16QAM	50	LOW	8.943	9.691	No limit
41	10	2685	QPSK	50	LOW	8.963	9.7	No limit
41	10	2685	16QAM	50	LOW	8.948	10.325	No limit
41	15	2503.5	QPSK	75	LOW	13.448	14.672	No limit
41	15	2503.5	16QAM	75	LOW	13.453	14.874	No limit
41	15	2593	QPSK	75	LOW	13.415	14.711	No limit
41	15	2593	16QAM	75	LOW	13.455	14.75	No limit
41	15	2682.5	QPSK	75	LOW	13.432	14.789	No limit
41	15	2682.5	16QAM	75	LOW	13.433	14.389	No limit
41	20	2506	QPSK	100	LOW	17.912	19.201	No limit
41	20	2506	16QAM	100	LOW	17.911	19.104	No limit
41	20	2593	QPSK	100	LOW	17.872	19.087	No limit
41	20	2593	16QAM	100	LOW	17.884	19.397	No limit
41	20	2680	QPSK	100	LOW	17.883	19.201	No limit
41	20	2680	16QAM	100	LOW	17.901	19.869	No limit

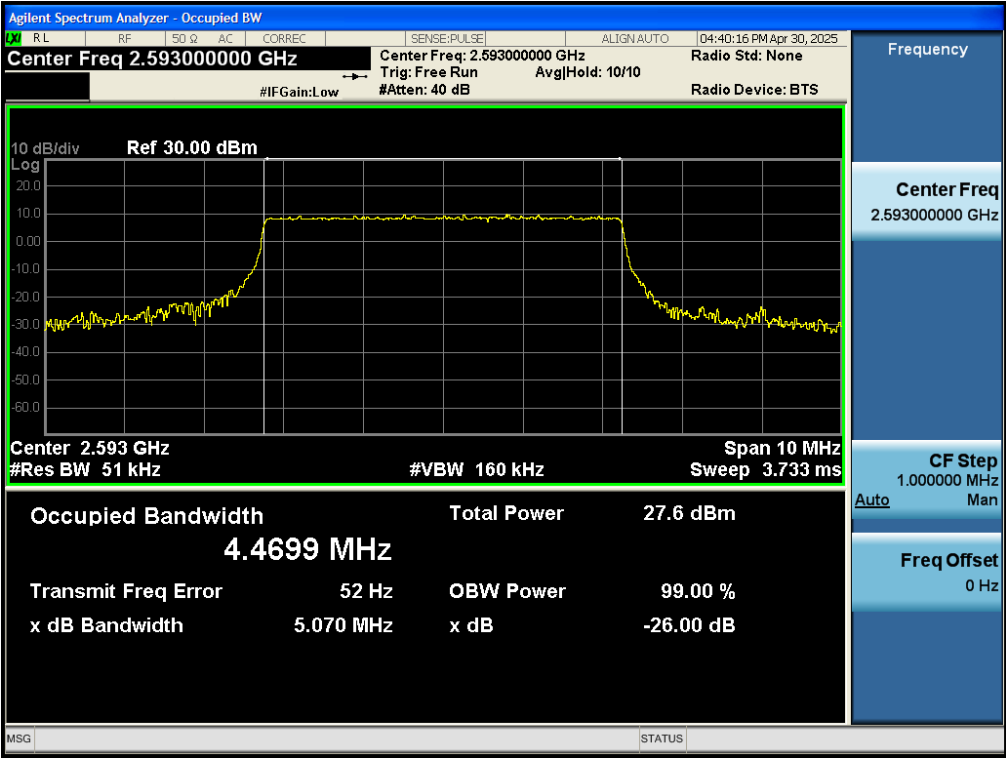
Test Graphs



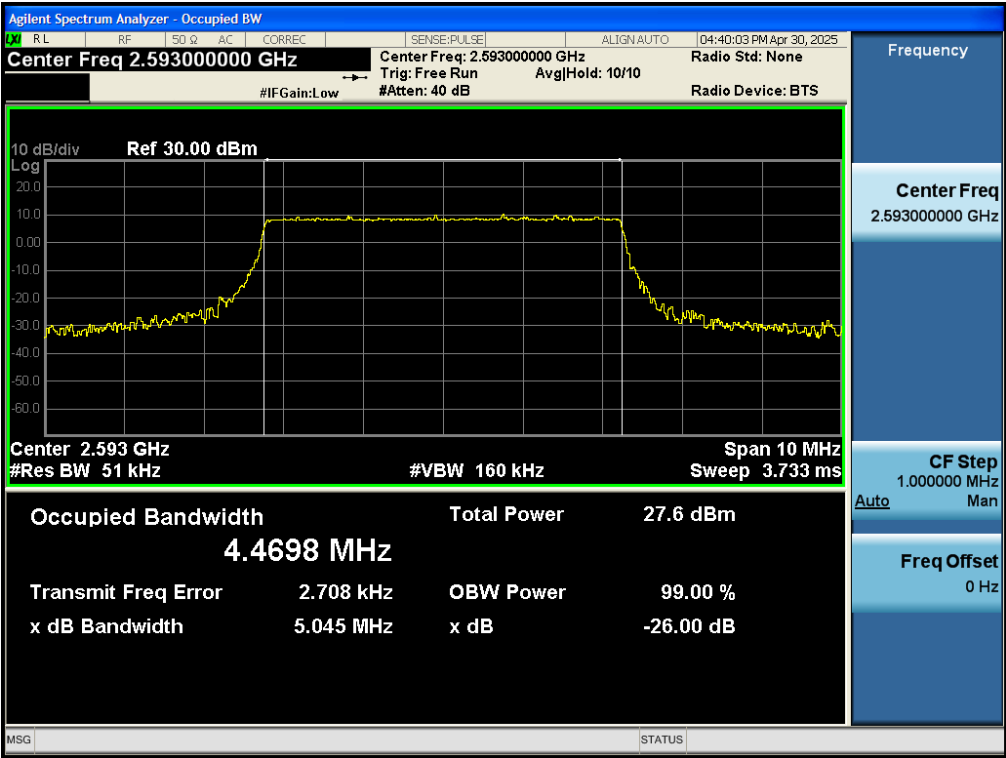
Test_Graph_band41_2498.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



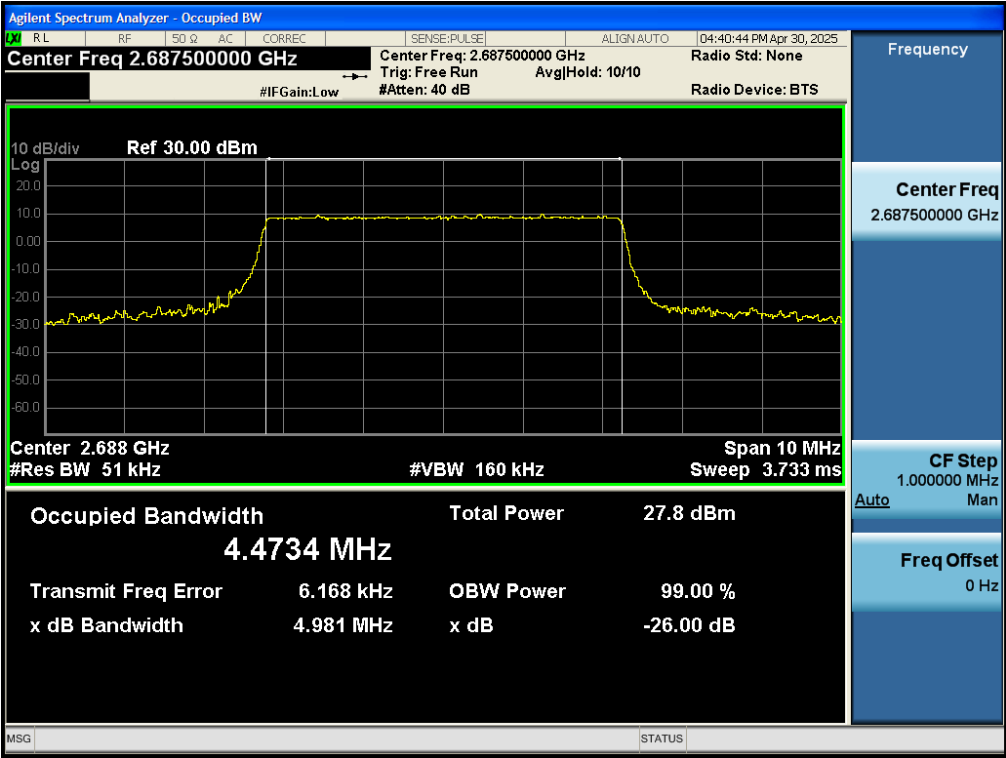
Test_Graph_band41_2498.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



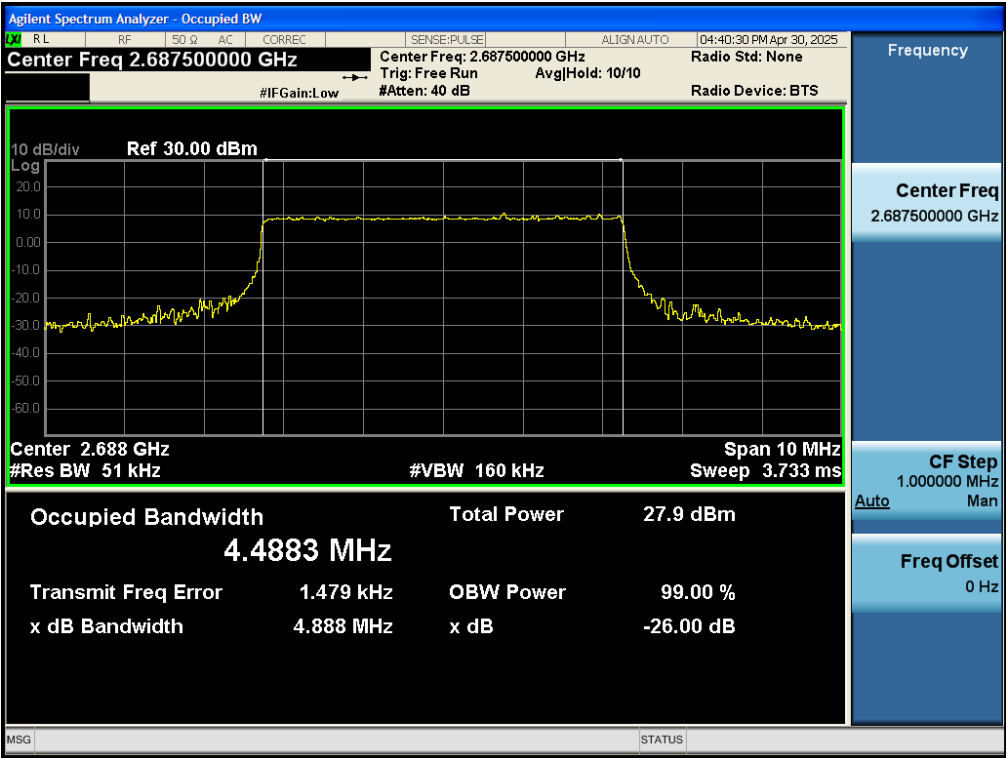
Test_Graph_band41_2593MHz_5M_16QAM_25RB#LOW_OBW&EBW



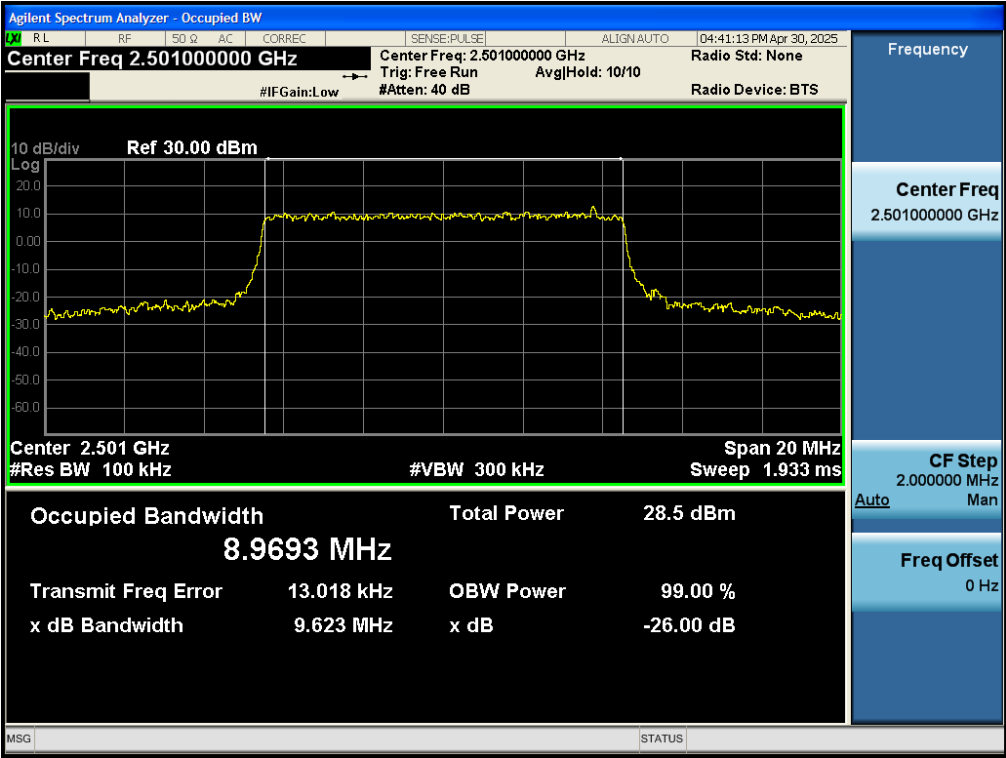
Test_Graph_band41_2593MHz_5M_QPSK_25RB#LOW_OBW&EBW



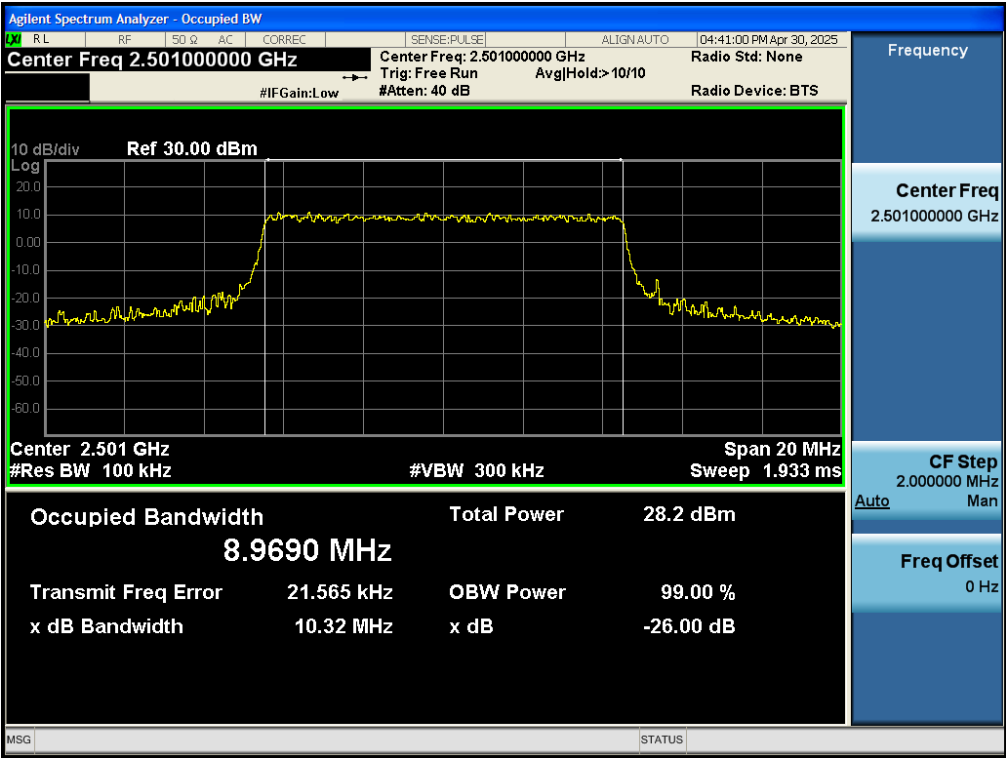
Test_Graph_band41_2687.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



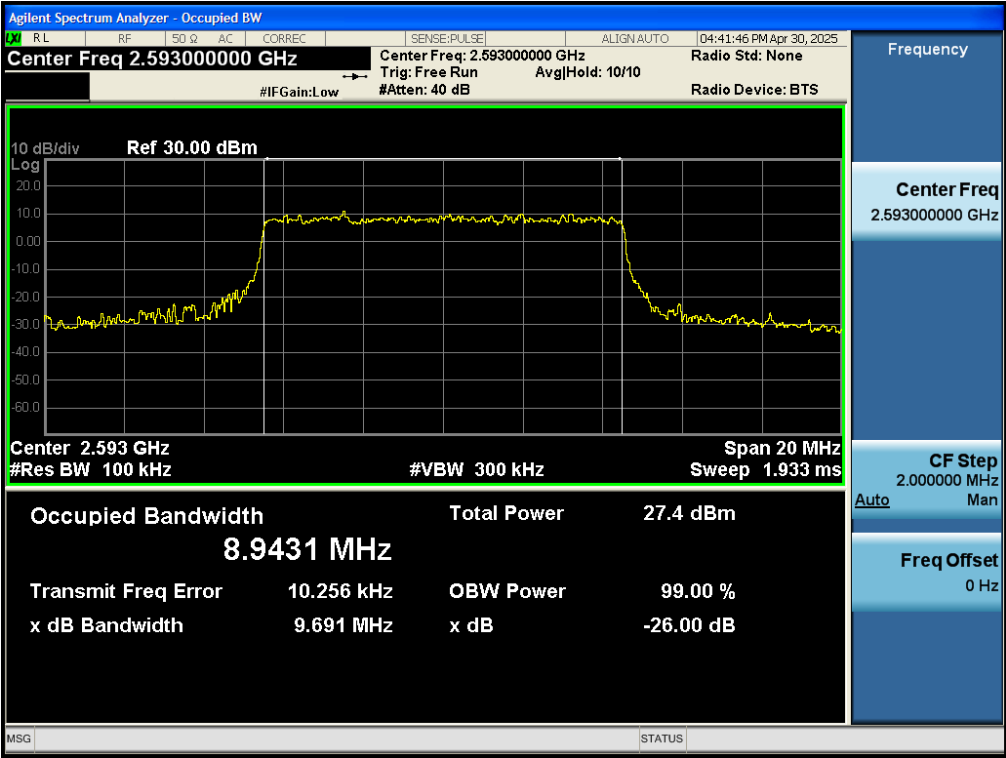
Test_Graph_band41_2687.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



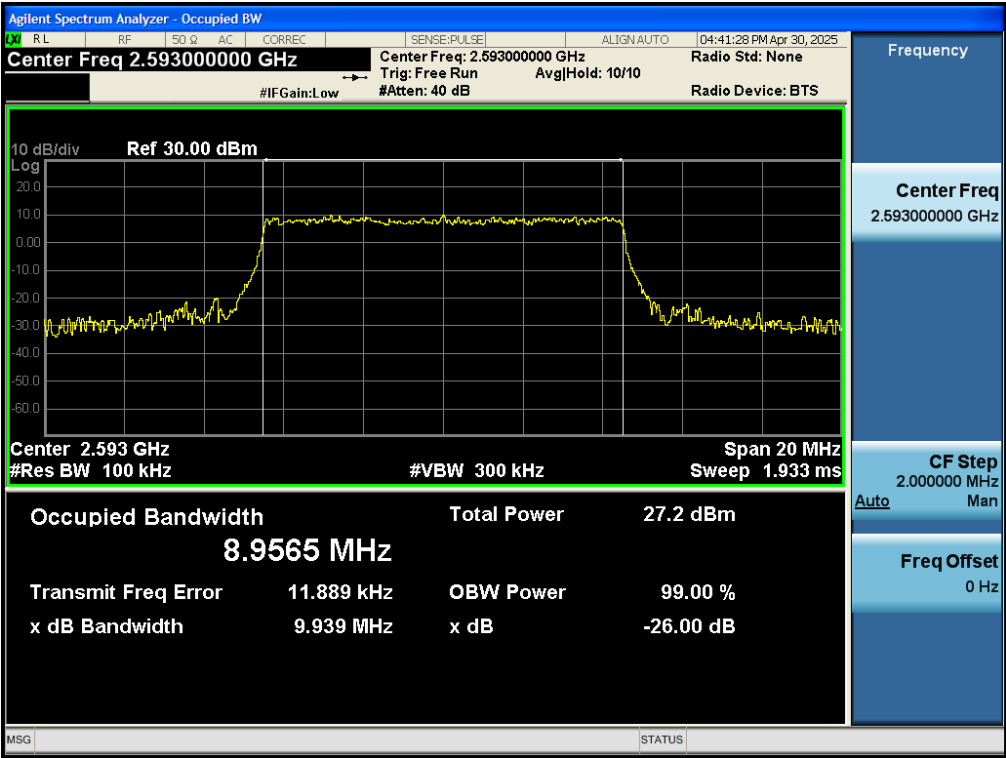
Test_Graph_band41_2501MHz_10M_16QAM_50RB#LOW_OBW&EBW



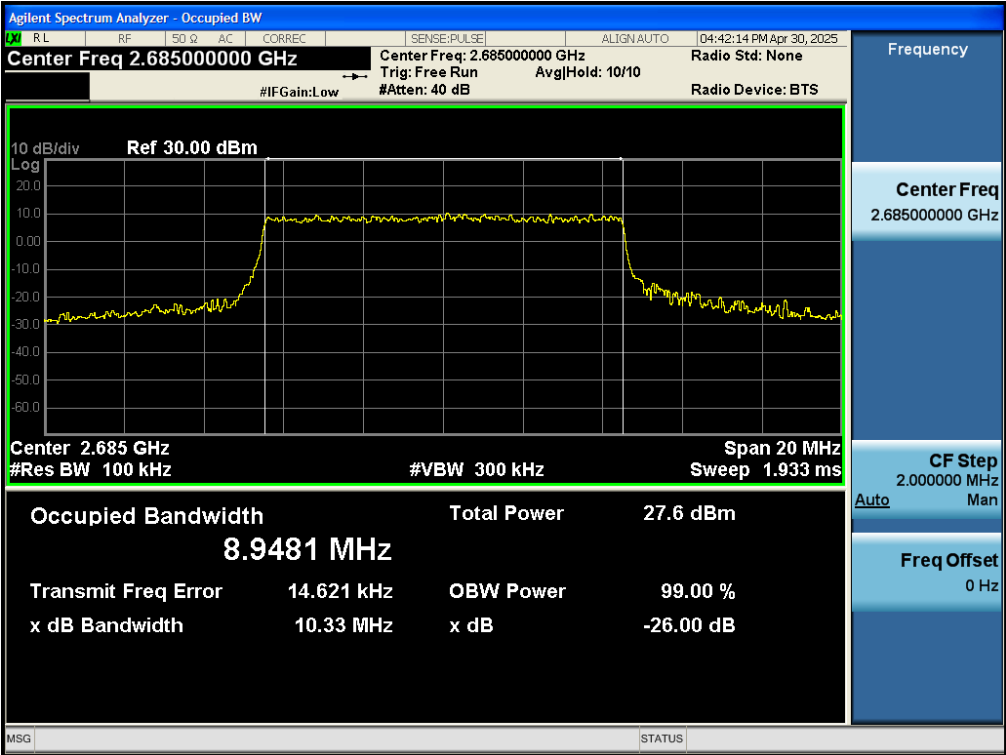
Test_Graph_band41_2501MHz_10M_QPSK_50RB#LOW_OBW&EBW



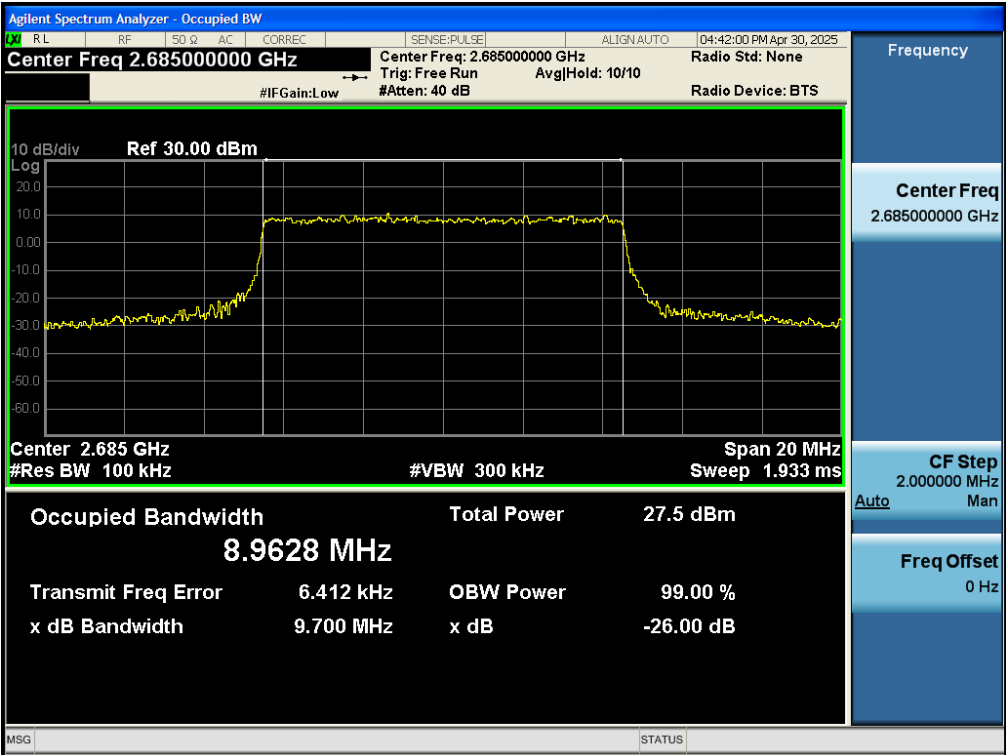
Test_Graph_band41_2593MHz_10M_16QAM_50RB#LOW_OBW&EBW



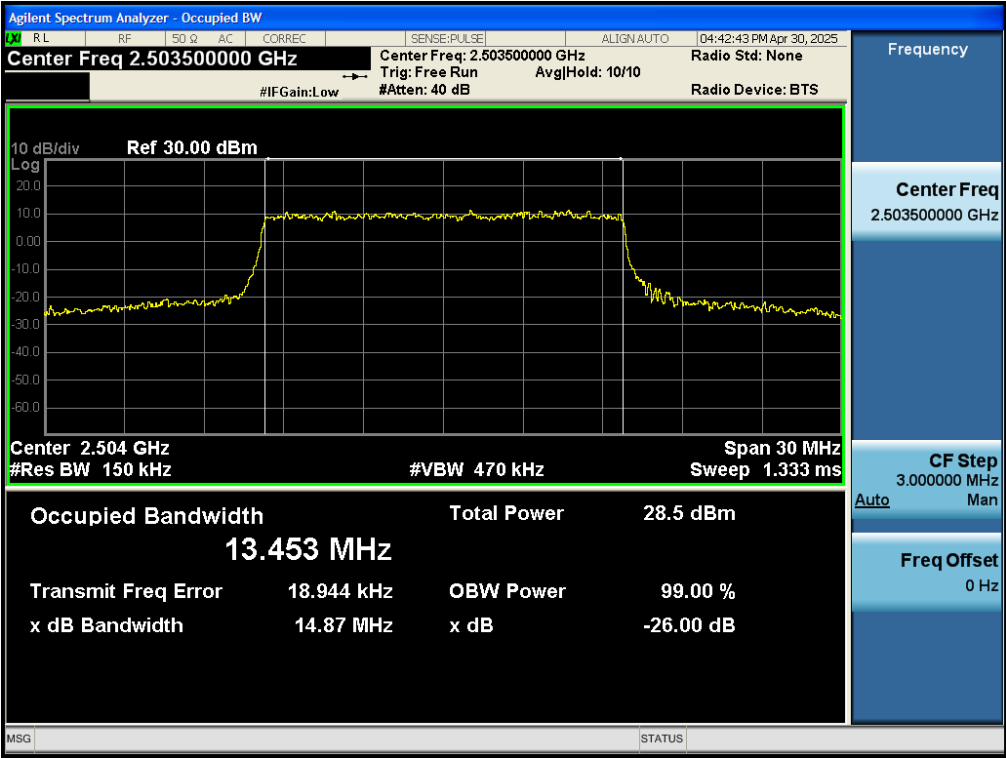
Test_Graph_band41_2593MHz_10M_QPSK_50RB#LOW_OBW&EBW



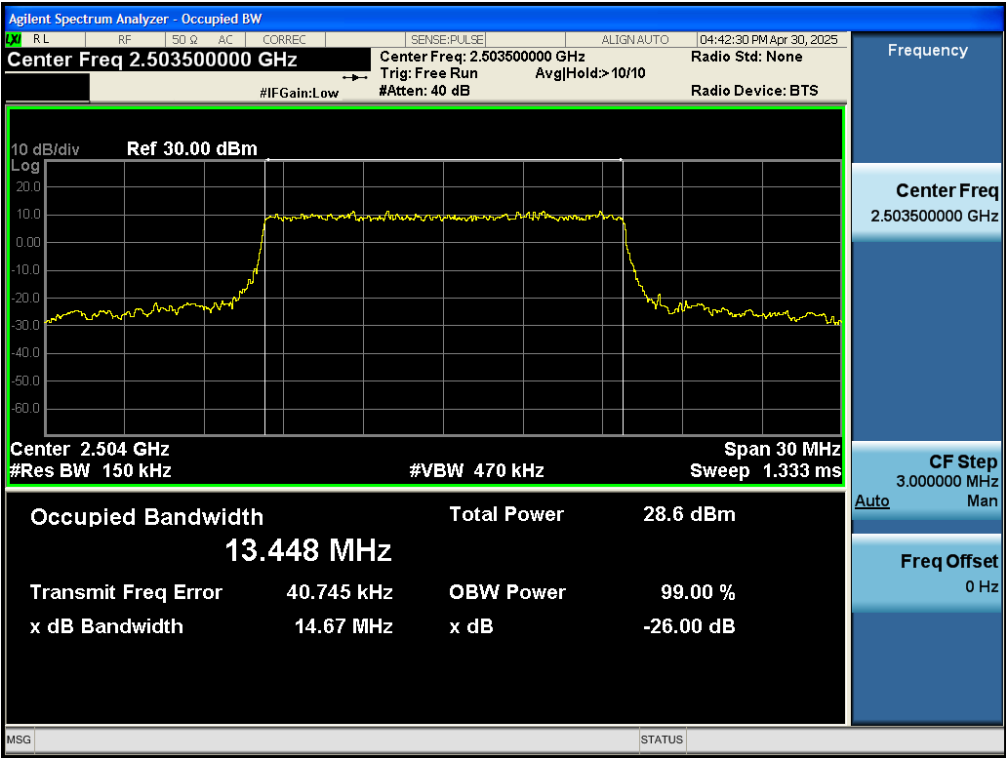
Test_Graph_band41_2685MHz_10M_16QAM_50RB#LOW_OBW&EBW



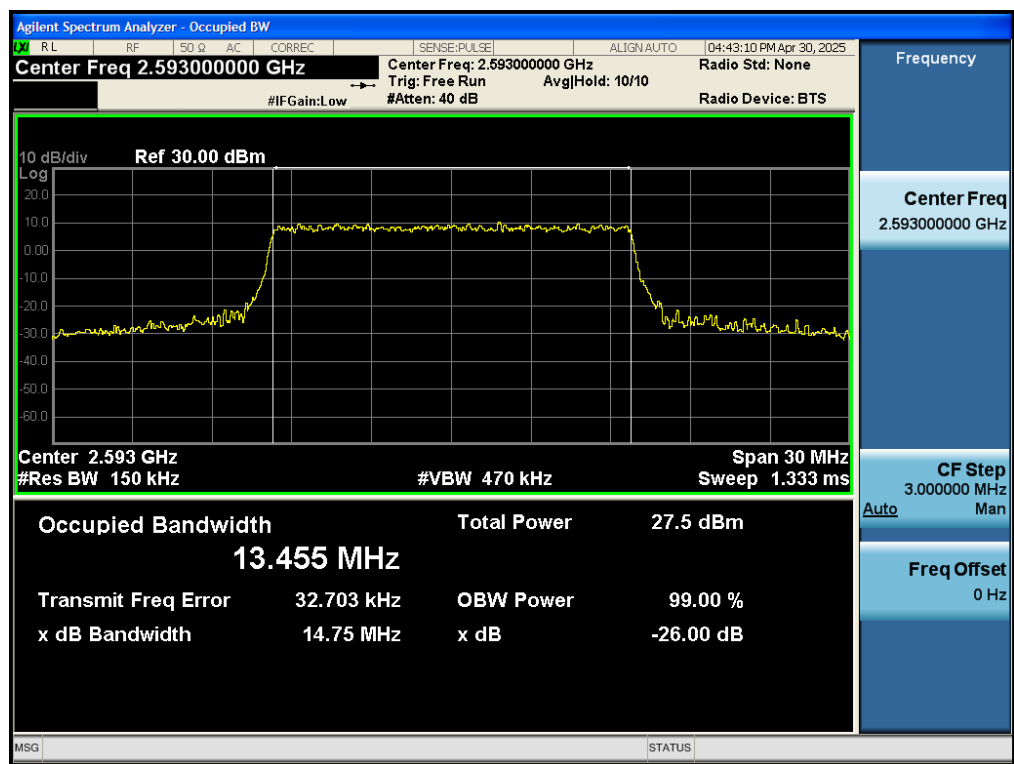
Test_Graph_band41_2685MHz_10M_QPSK_50RB#LOW_OBW&EBW



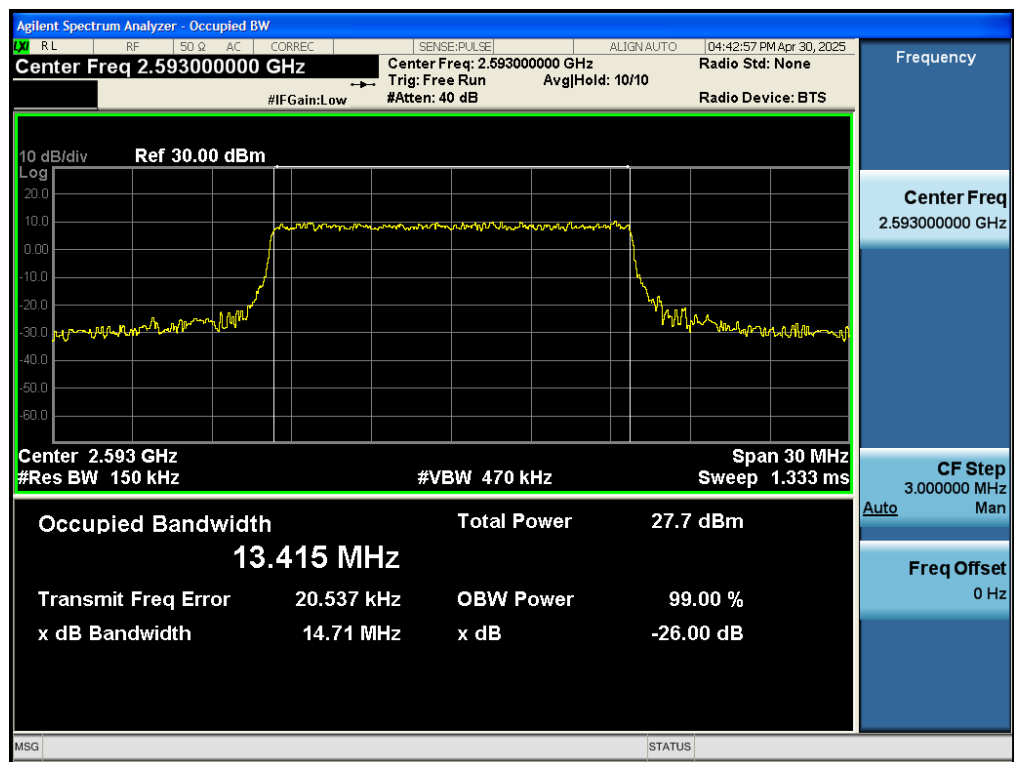
Test_Graph_band41_2503.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



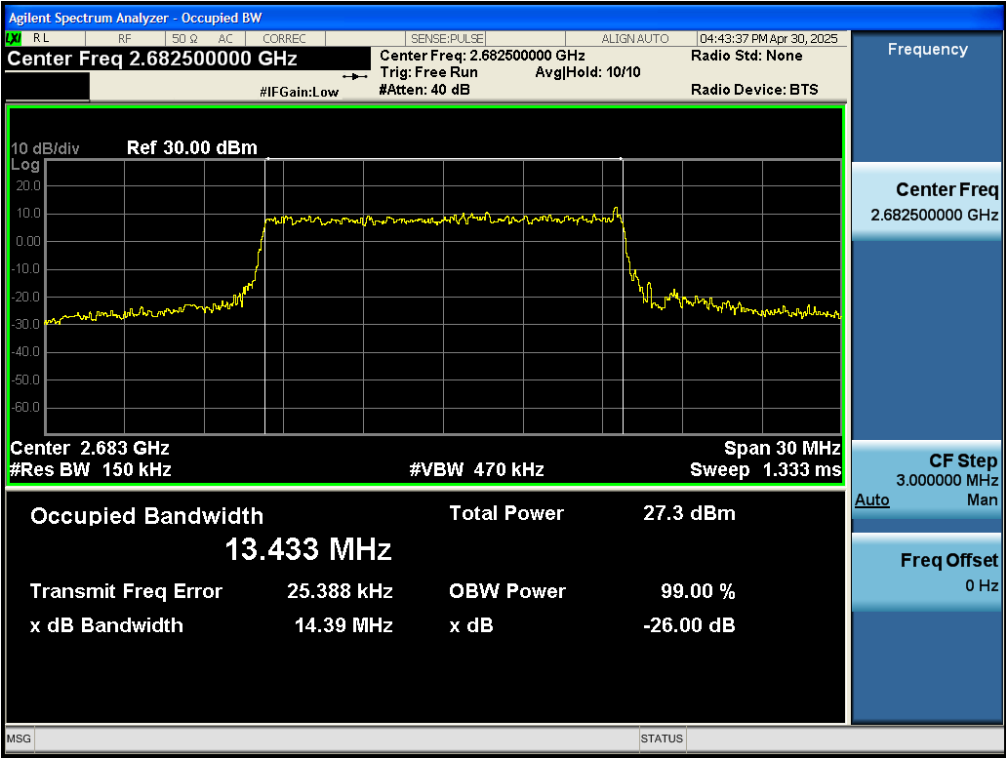
Test_Graph_band41_2503.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



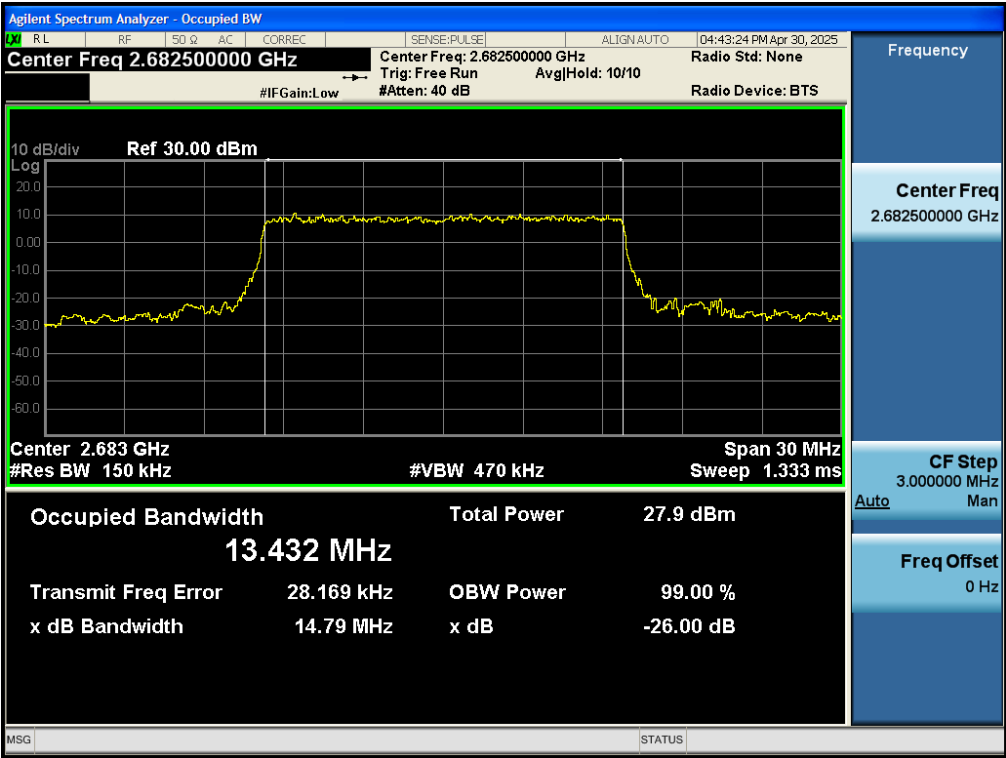
Test_Graph_band41_2593MHz_15M_16QAM_75RB#LOW_OBW&EBW



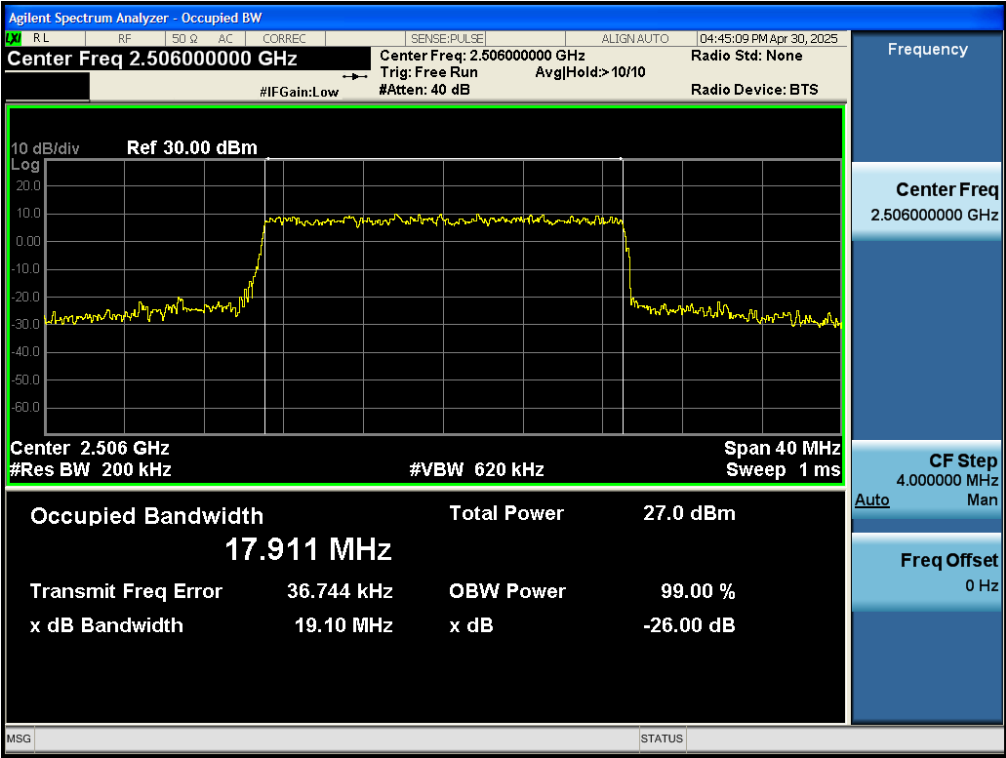
Test_Graph_band41_2593MHz_15M_QPSK_75RB#LOW_OBW&EBW



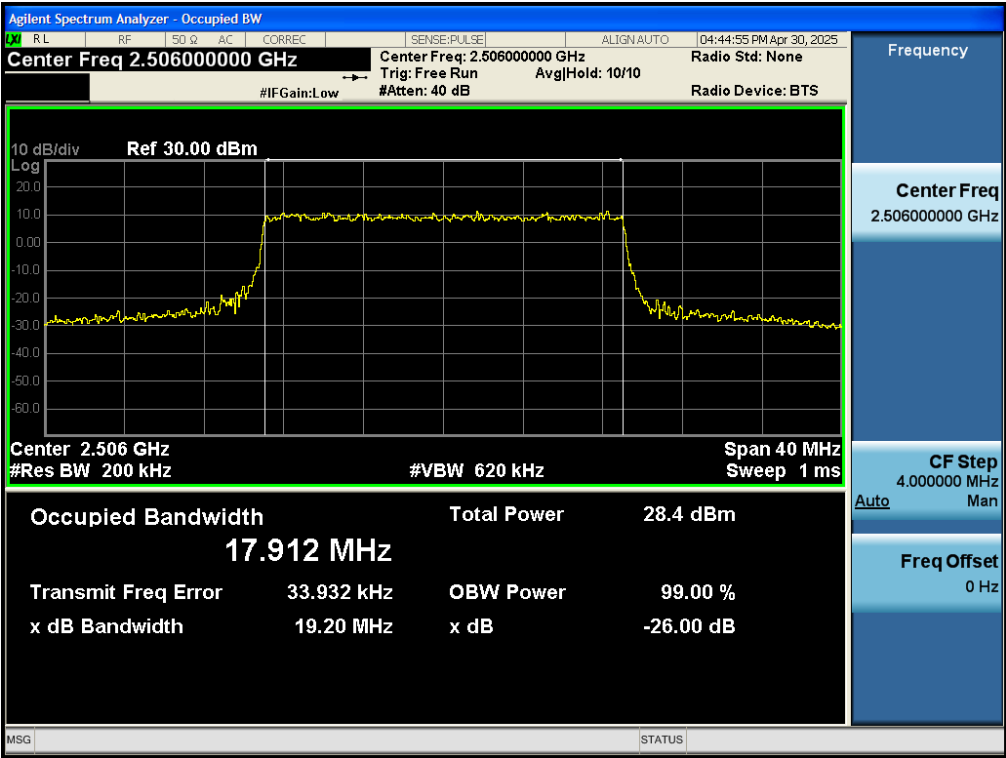
Test_Graph_band41_2682.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



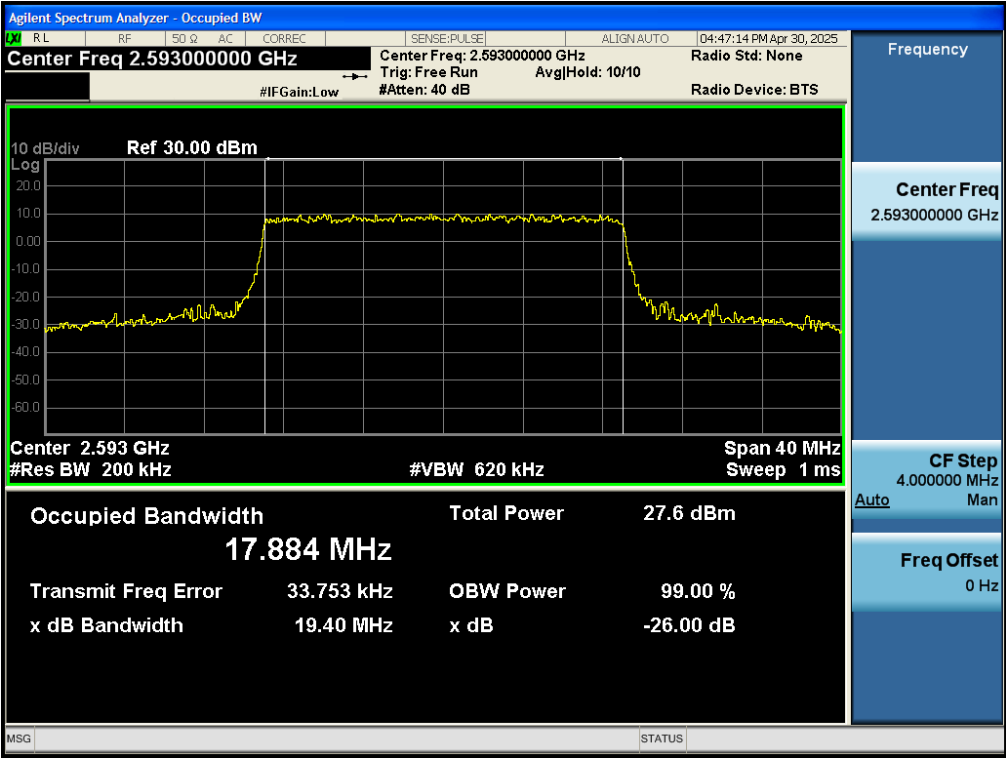
Test_Graph_band41_2682.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



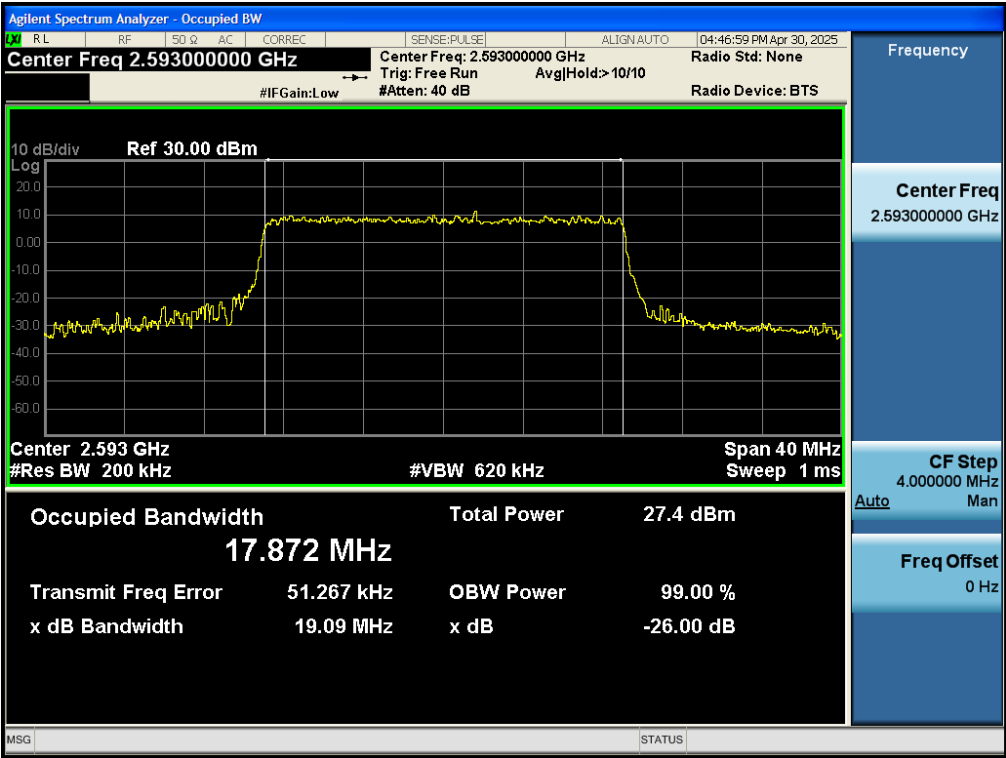
Test_Graph_band41_2506MHz_20M_16QAM_100RB#LOW_OBW&EBW



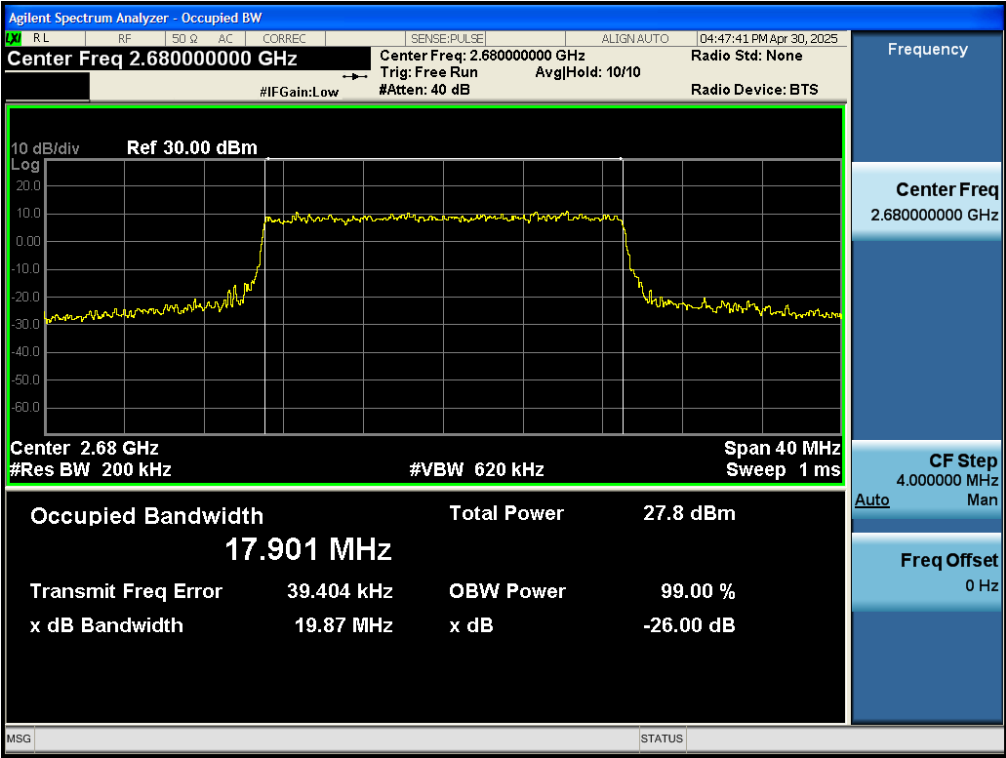
Test_Graph_band41_2506MHz_20M_QPSK_100RB#LOW_OBW&EBW



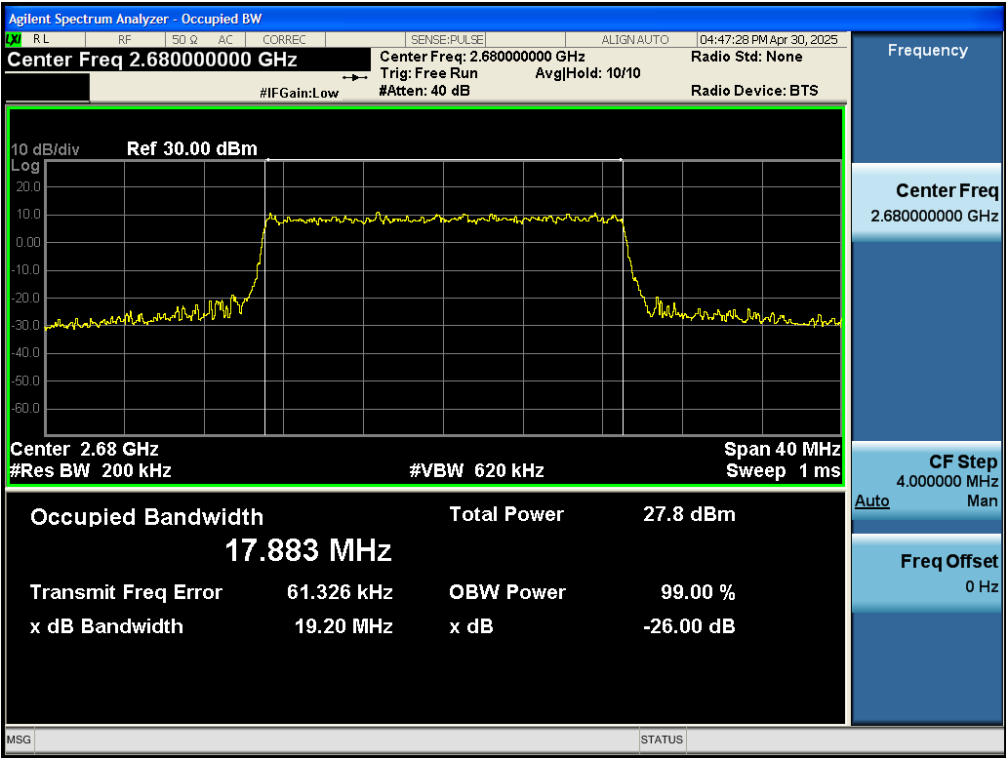
Test_Graph_band41_2593MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band41_2593MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band41_2680MHz_20M_16QAM_100RB#LOW_OBW&EBW



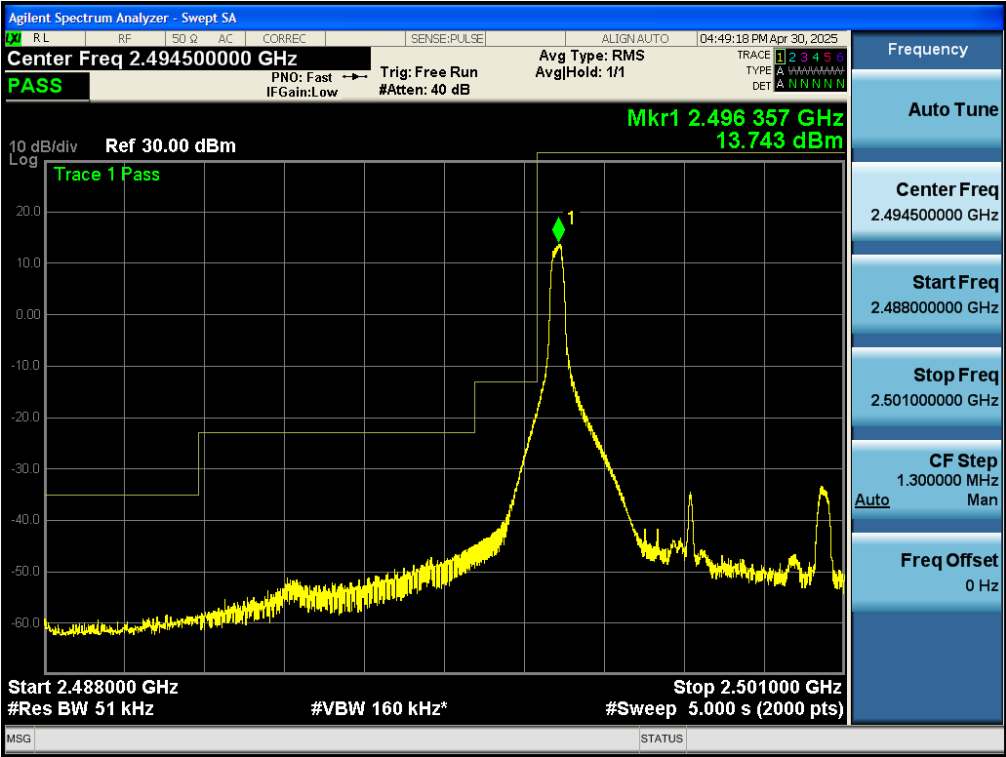
Test_Graph_band41_2680MHz_20M_QPSK_100RB#LOW_OBW&EBW

Appendix C: Band edge emissions

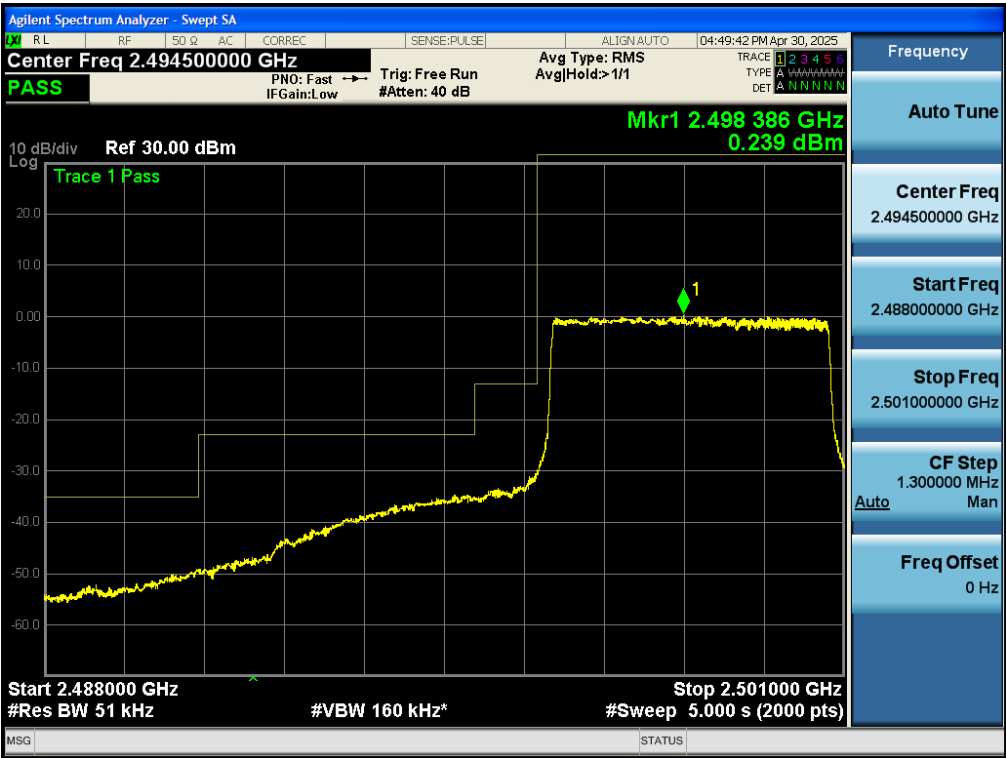
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
41	5	2498.5	QPSK	1	LOW	Pass
41	5	2498.5	QPSK	25	LOW	Pass
41	5	2498.5	16QAM	1	LOW	Pass
41	5	2498.5	16QAM	25	LOW	Pass
41	5	2687.5	QPSK	1	HIGH	Pass
41	5	2687.5	QPSK	25	LOW	Pass
41	5	2687.5	16QAM	1	HIGH	Pass
41	5	2687.5	16QAM	25	LOW	Pass
41	10	2501	QPSK	1	LOW	Pass
41	10	2501	QPSK	50	LOW	Pass
41	10	2501	16QAM	1	LOW	Pass
41	10	2501	16QAM	50	LOW	Pass
41	10	2685	QPSK	1	HIGH	Pass
41	10	2685	QPSK	50	LOW	Pass
41	10	2685	16QAM	1	HIGH	Pass
41	10	2685	16QAM	50	LOW	Pass
41	15	2503.5	QPSK	1	LOW	Pass
41	15	2503.5	QPSK	75	LOW	Pass
41	15	2503.5	16QAM	1	LOW	Pass
41	15	2503.5	16QAM	75	LOW	Pass
41	15	2682.5	QPSK	1	HIGH	Pass
41	15	2682.5	QPSK	75	LOW	Pass
41	15	2682.5	16QAM	1	HIGH	Pass
41	15	2682.5	16QAM	75	LOW	Pass
41	20	2506	QPSK	1	LOW	Pass
41	20	2506	QPSK	100	LOW	Pass
41	20	2506	16QAM	1	LOW	Pass
41	20	2506	16QAM	100	LOW	Pass
41	20	2680	QPSK	1	HIGH	Pass
41	20	2680	QPSK	100	LOW	Pass
41	20	2680	16QAM	1	HIGH	Pass
41	20	2680	16QAM	100	LOW	Pass

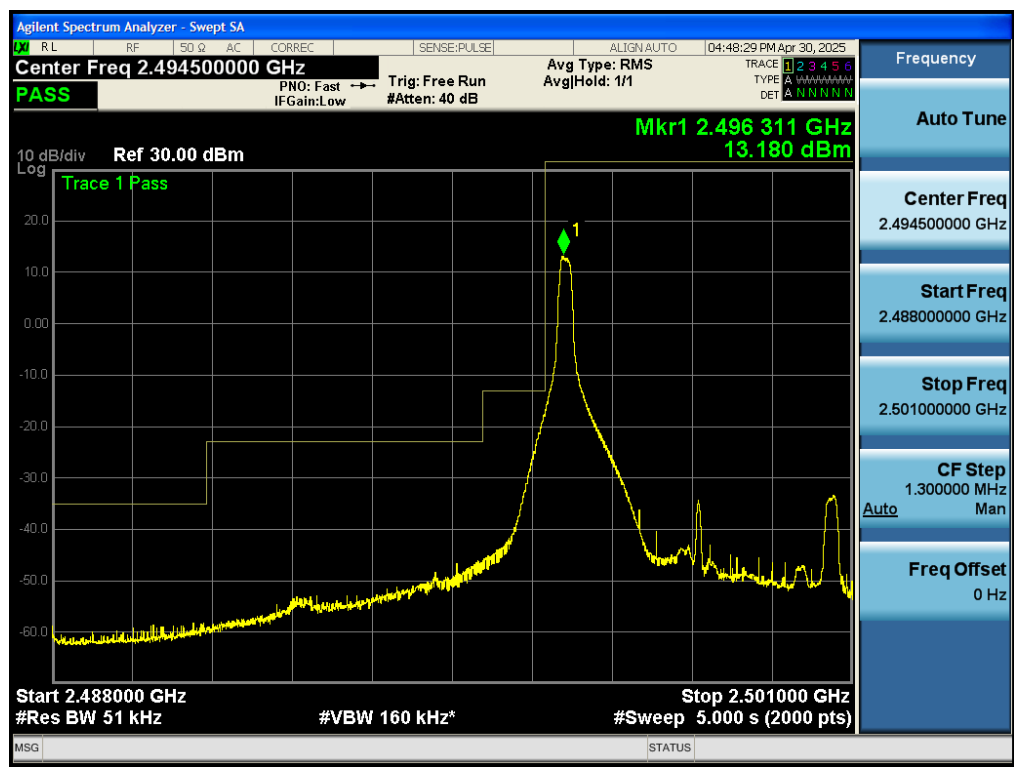
Test Graphs



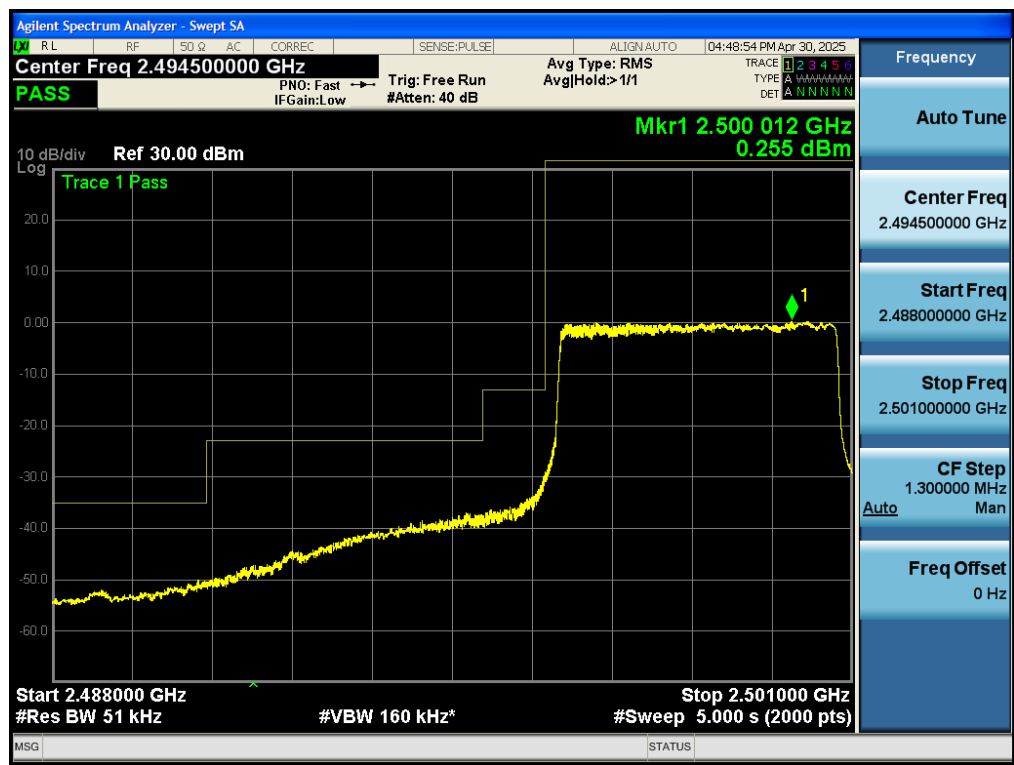
Test_Graph_band41_2498.5MHz_5M_16QAM_1RB#LOW_Band edge



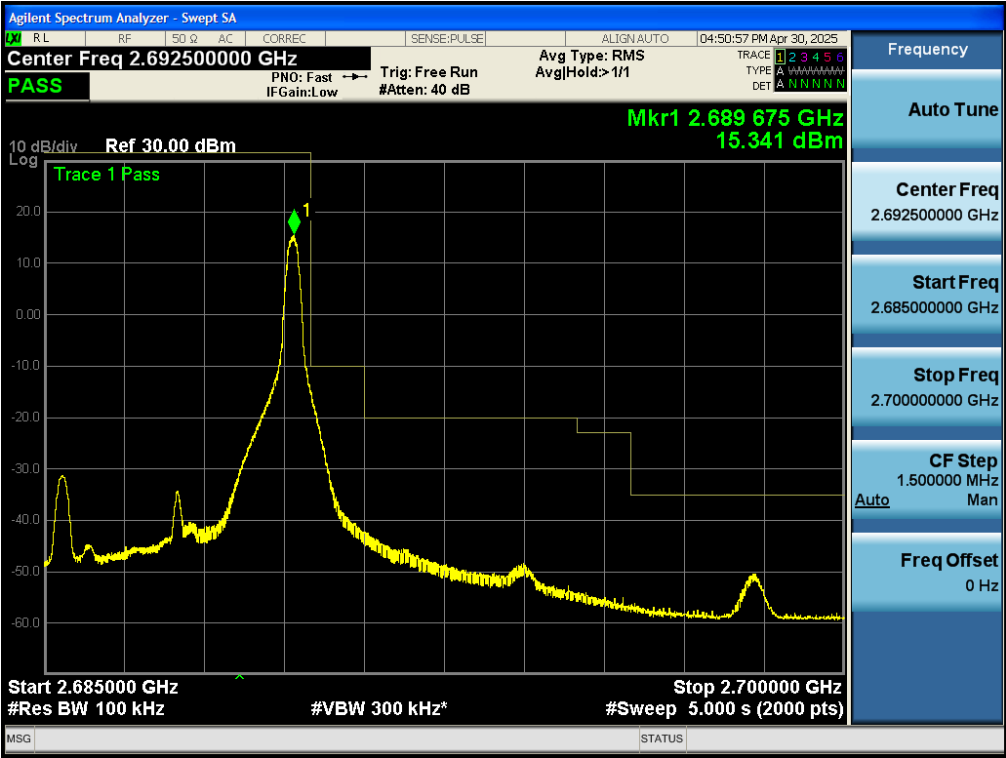
Test_Graph_band41_2498.5MHz_5M_16QAM_25RB#LOW_Band edge



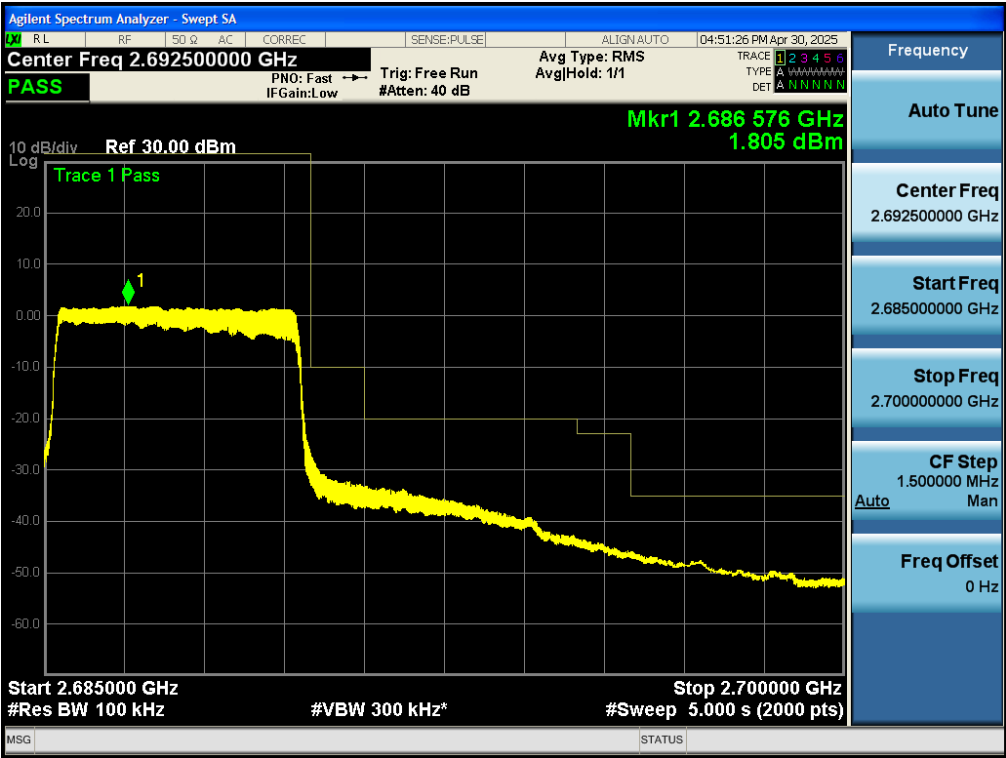
Test_Graph_band41_2498.5MHz_5M_QPSK_1RB#LOW_Band edge



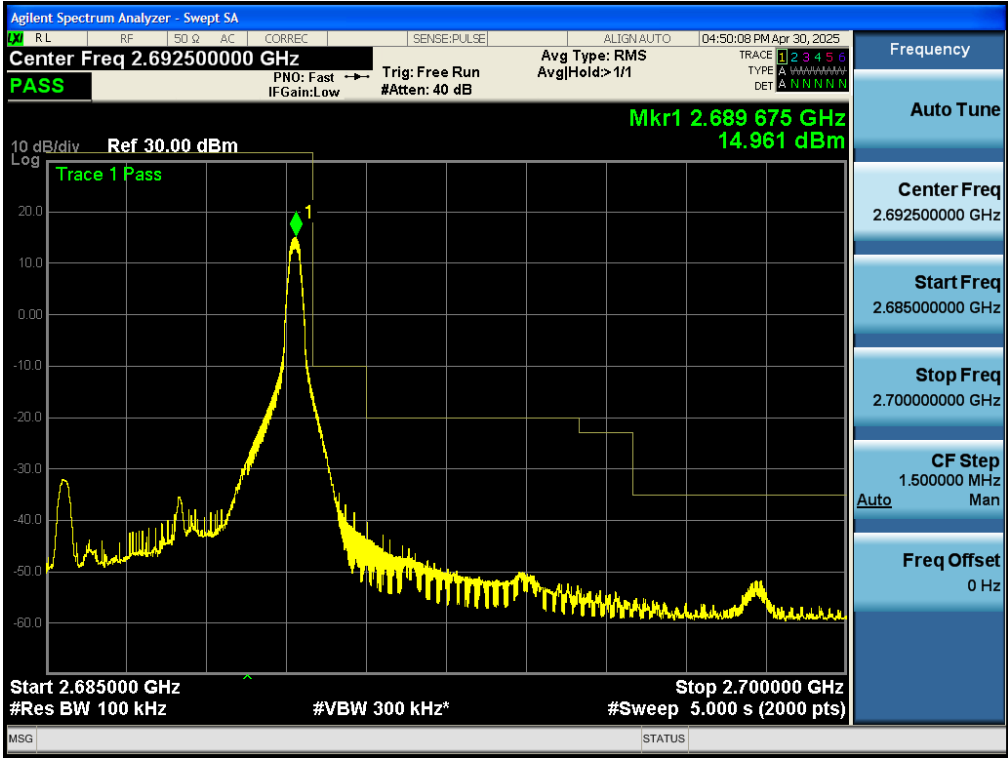
Test_Graph_band41_2498.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band41_2687.5MHz_5M_16QAM_1RB#HIGH_Band edge



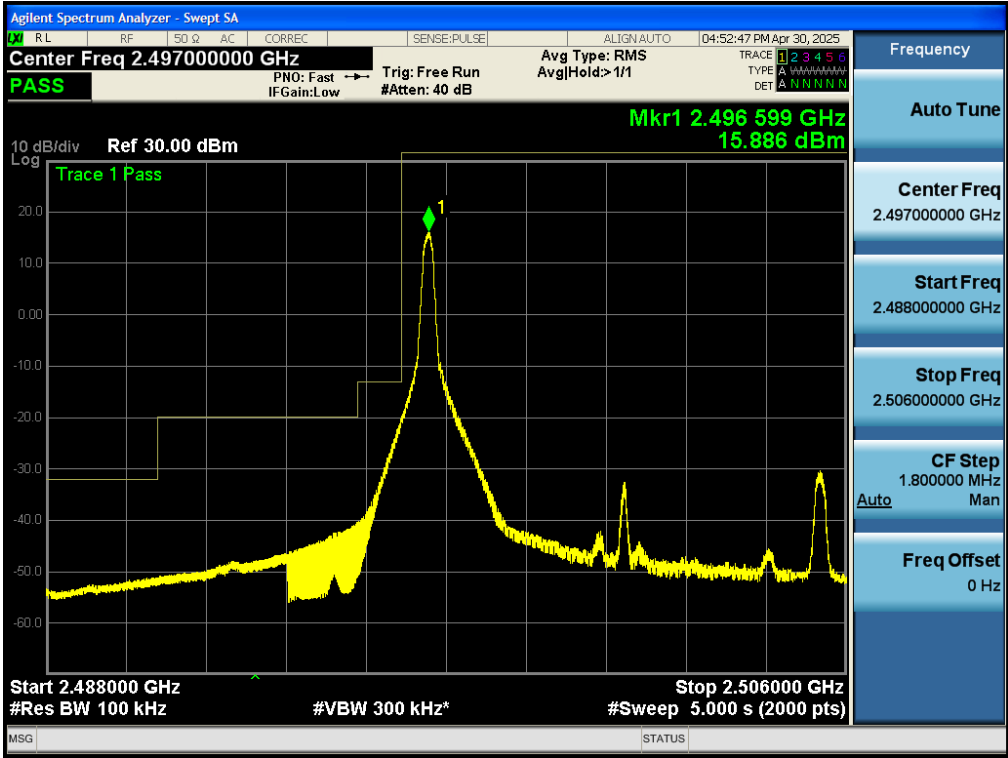
Test_Graph_band41_2687.5MHz_5M_16QAM_25RB#LOW_Band edge



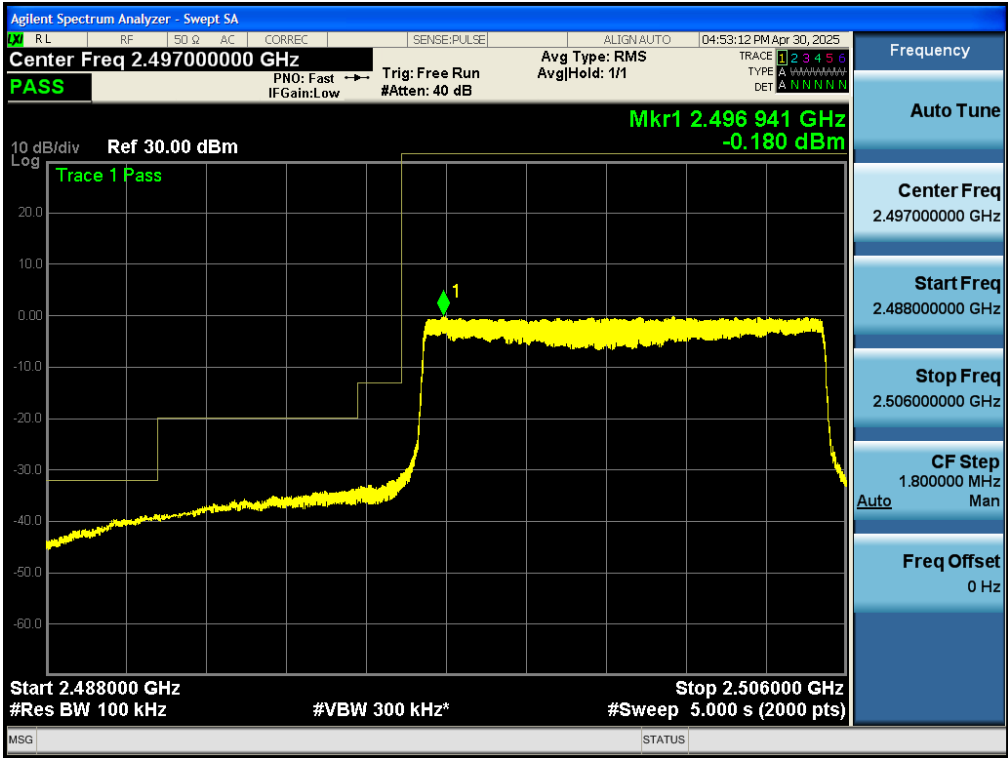
Test_Graph_band41_2687.5MHz_5M_QPSK_1RB#HIGH_Band edge



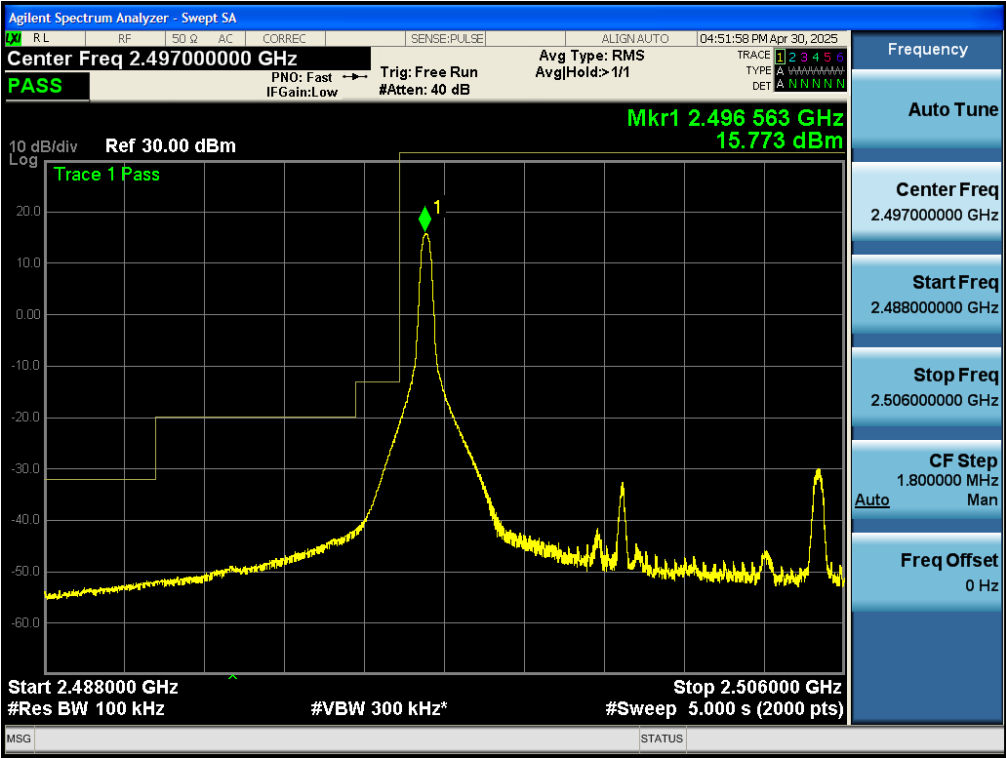
Test_Graph_band41_2687.5MHz_5M_QPSK_25RB#LOW_Band edge



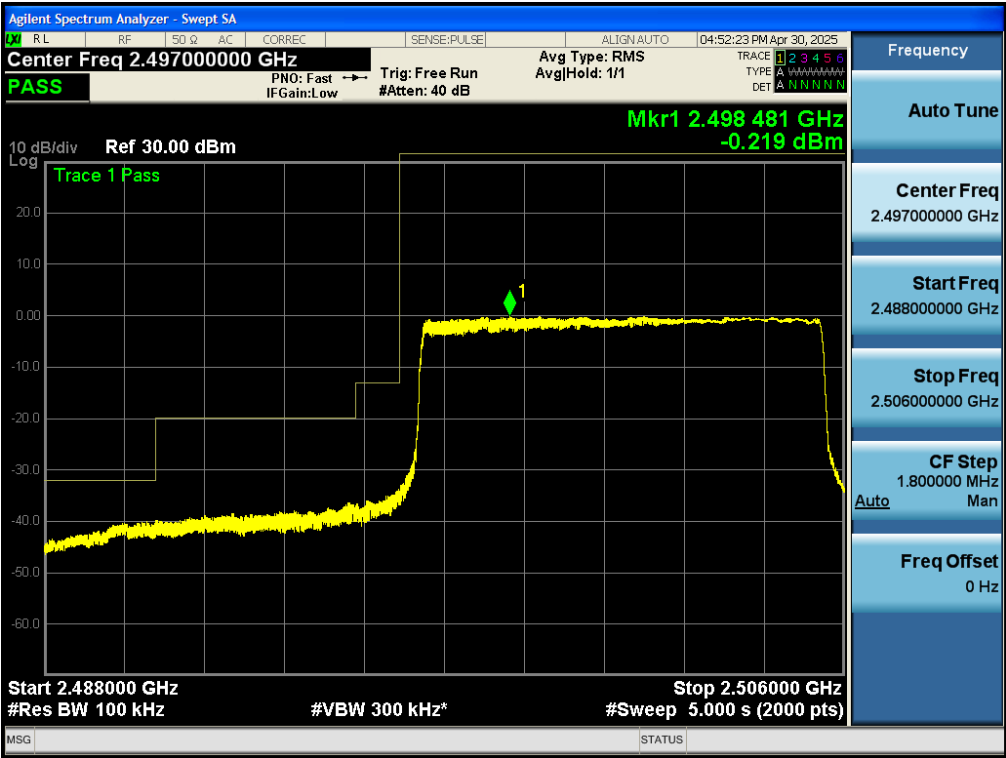
Test_Graph_band41_2501MHz_10M_16QAM_1RB#LOW_Band edge



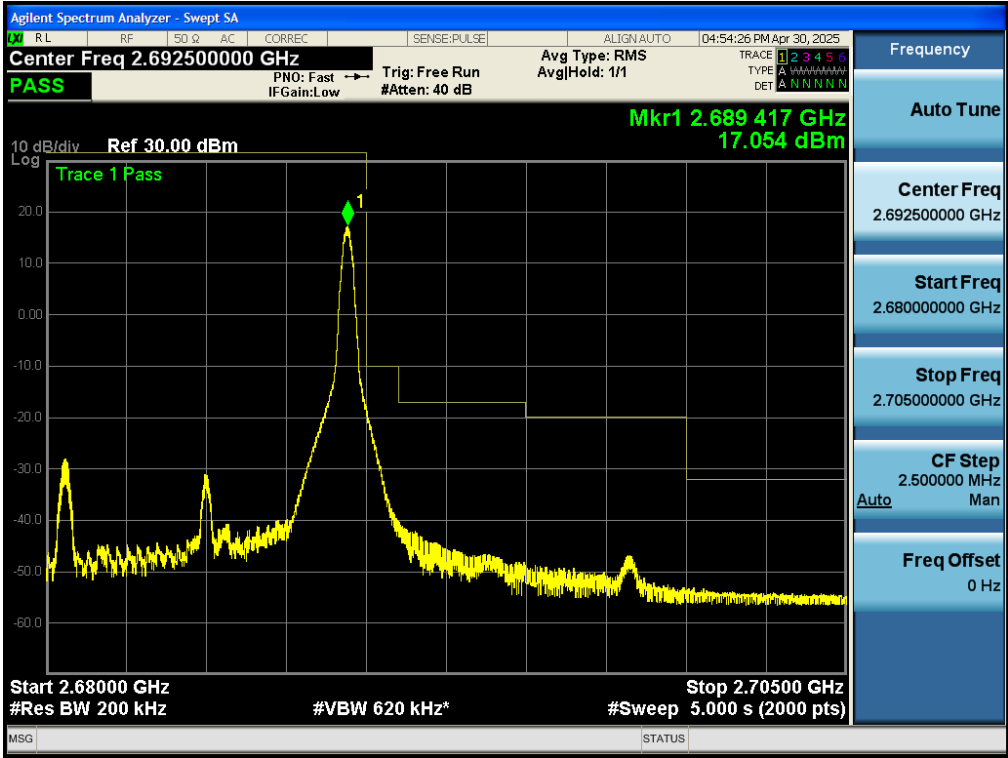
Test_Graph_band41_2501MHz_10M_16QAM_50RB#LOW_Band edge



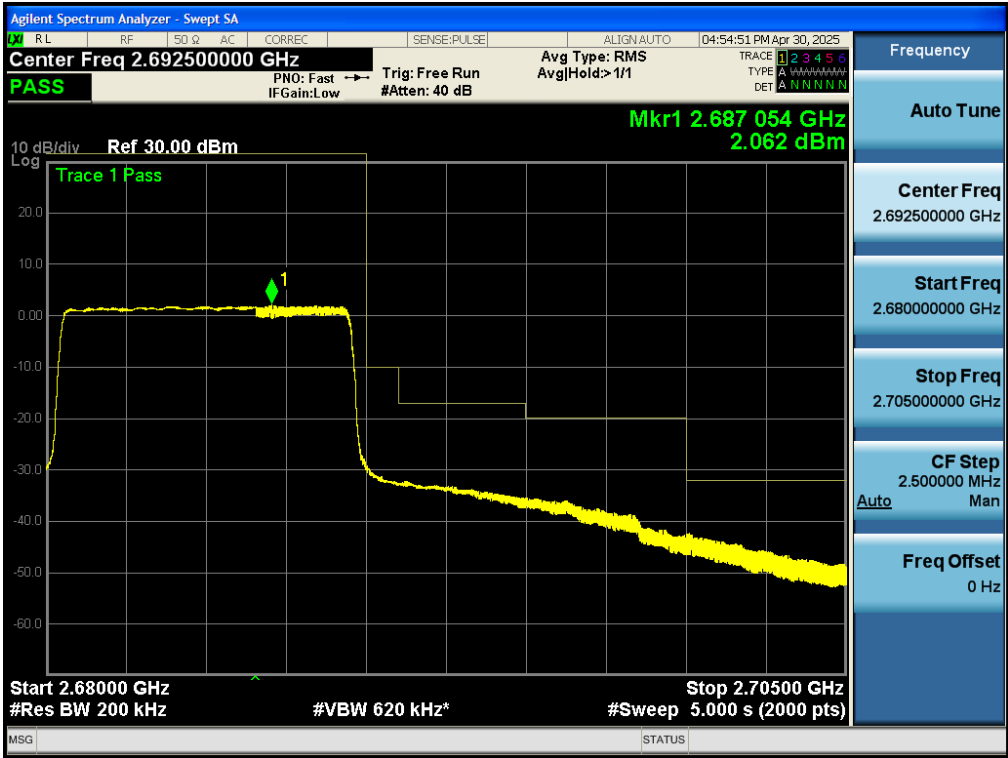
Test_Graph_band41_2501MHz_10M_QPSK_1RB#LOW_Band edge



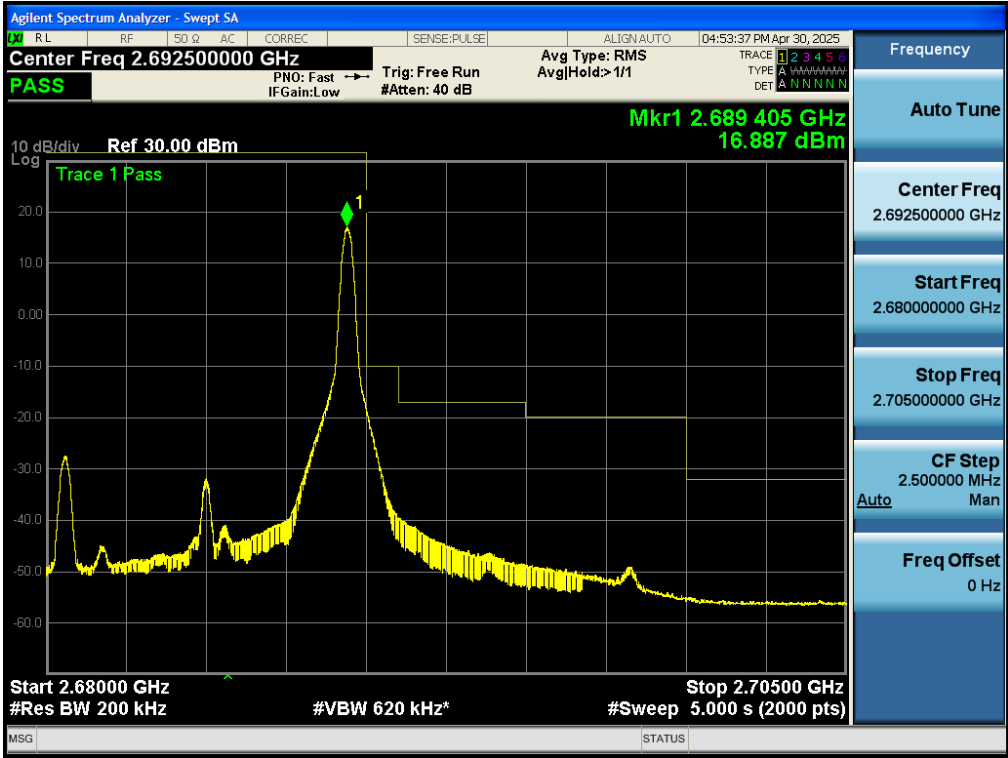
Test_Graph_band41_2501MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band41_2685MHz_10M_16QAM_1RB#HIGH_Band edge



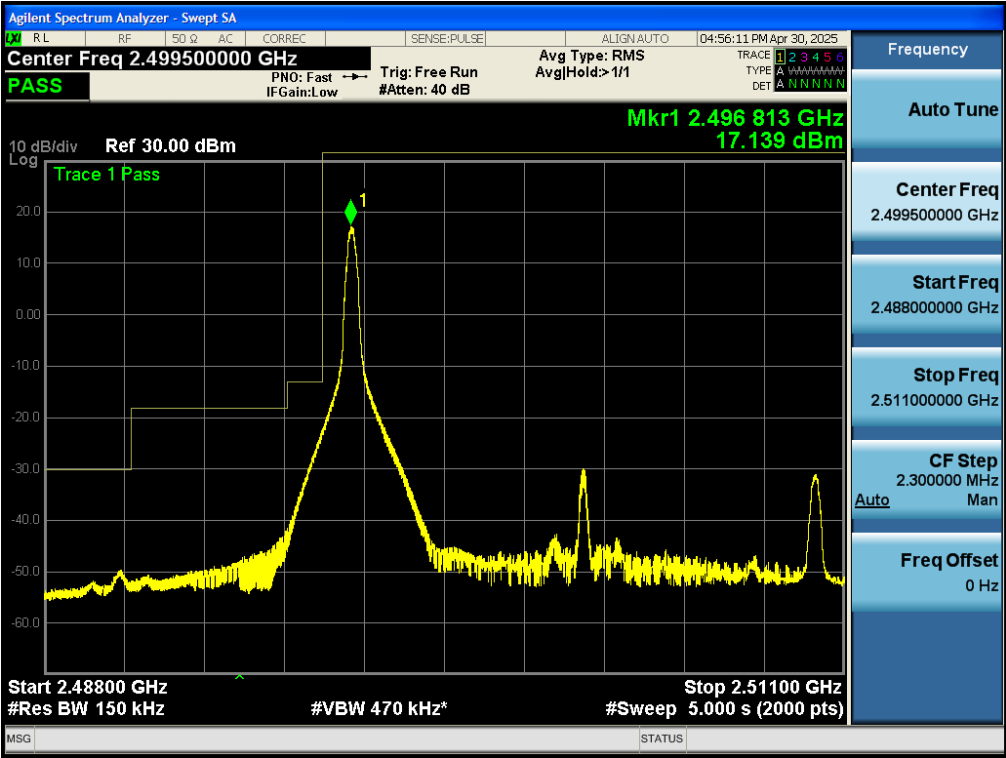
Test_Graph_band41_2685MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band41_2685MHz_10M_QPSK_1RB#HIGH_Band edge



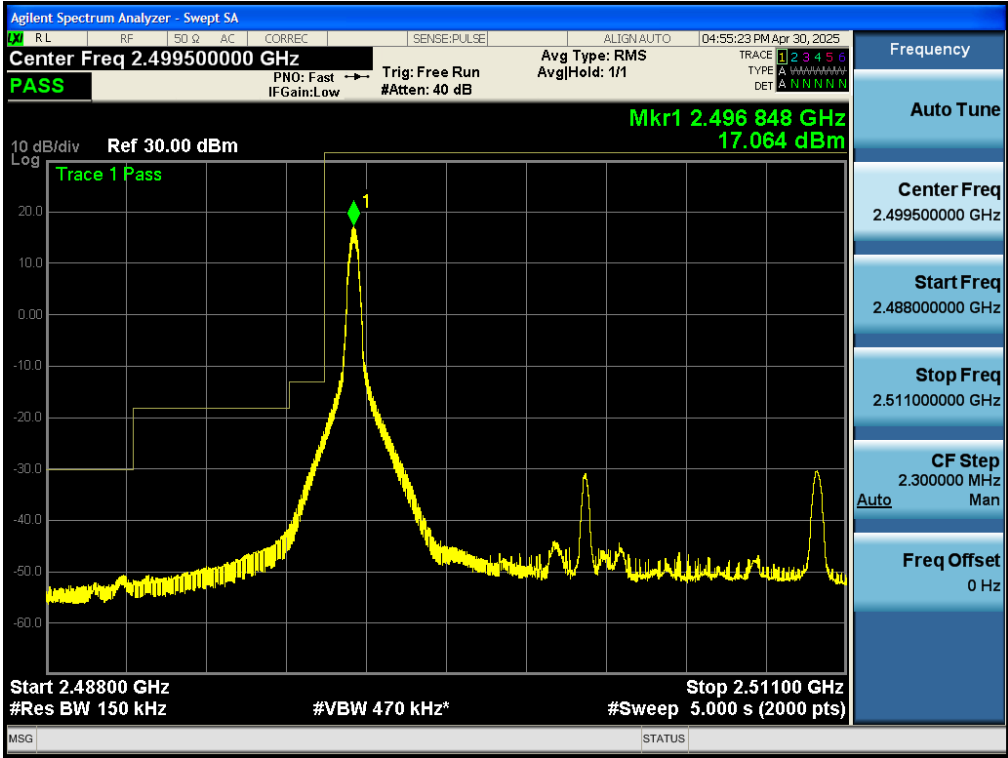
Test_Graph_band41_2685MHz_10M_QPSK_50RB#LOW_Band edge



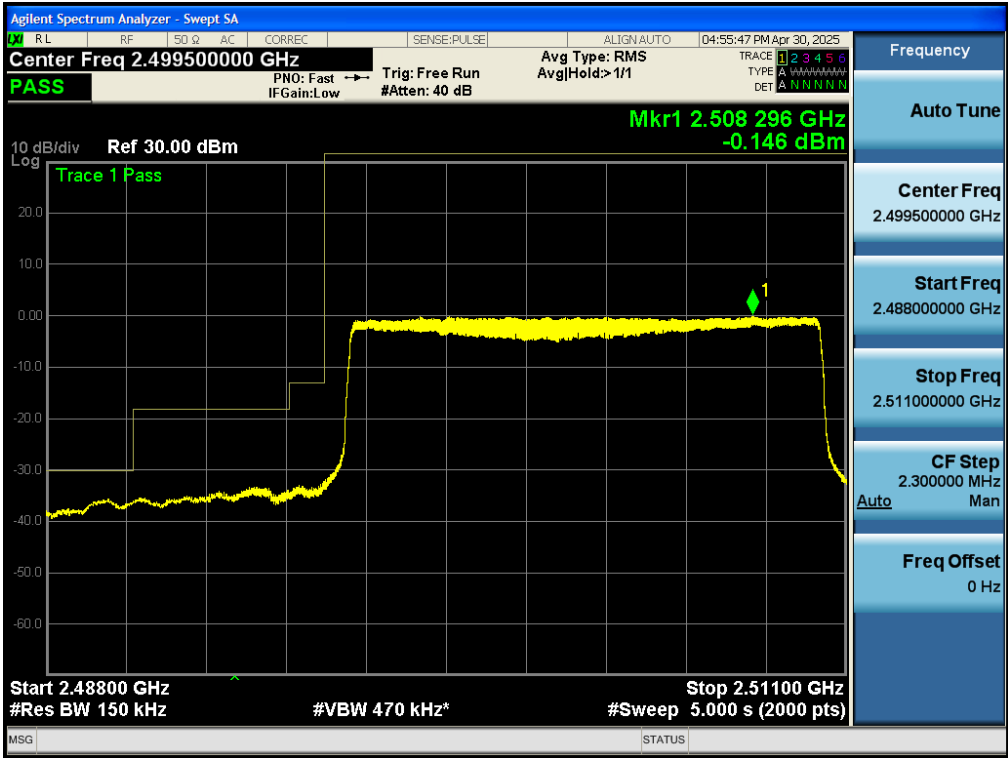
Test_Graph_band41_2503.5MHz_15M_16QAM_1RB#LOW_Band edge



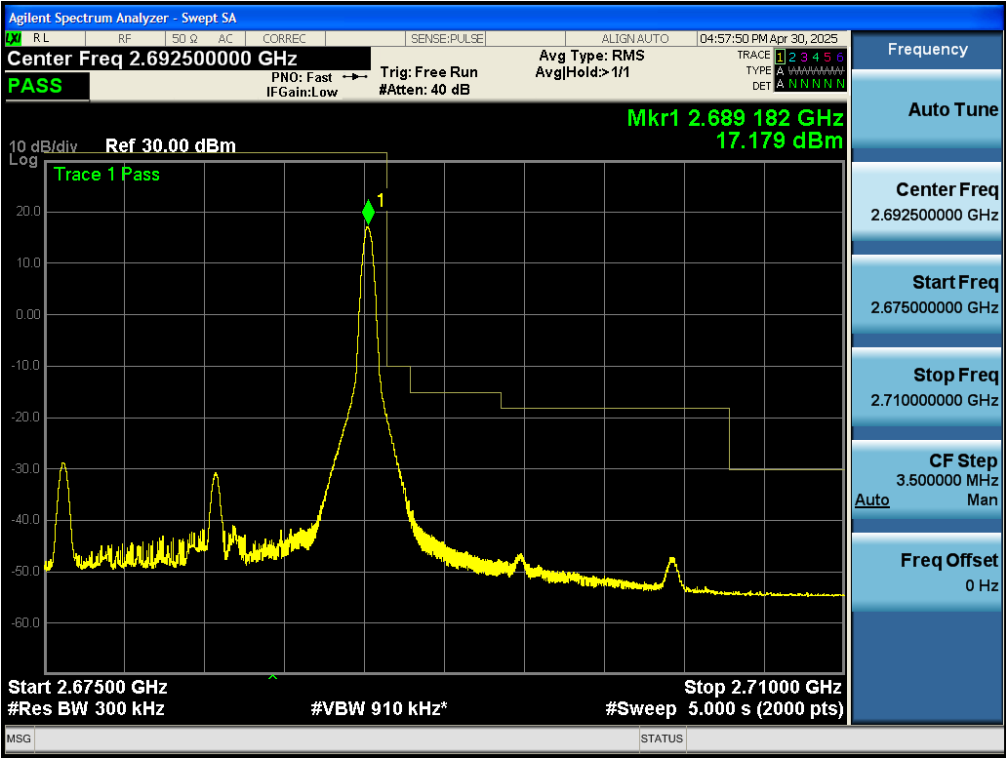
Test_Graph_band41_2503.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band41_2503.5MHz_15M_QPSK_1RB#LOW_Band edge



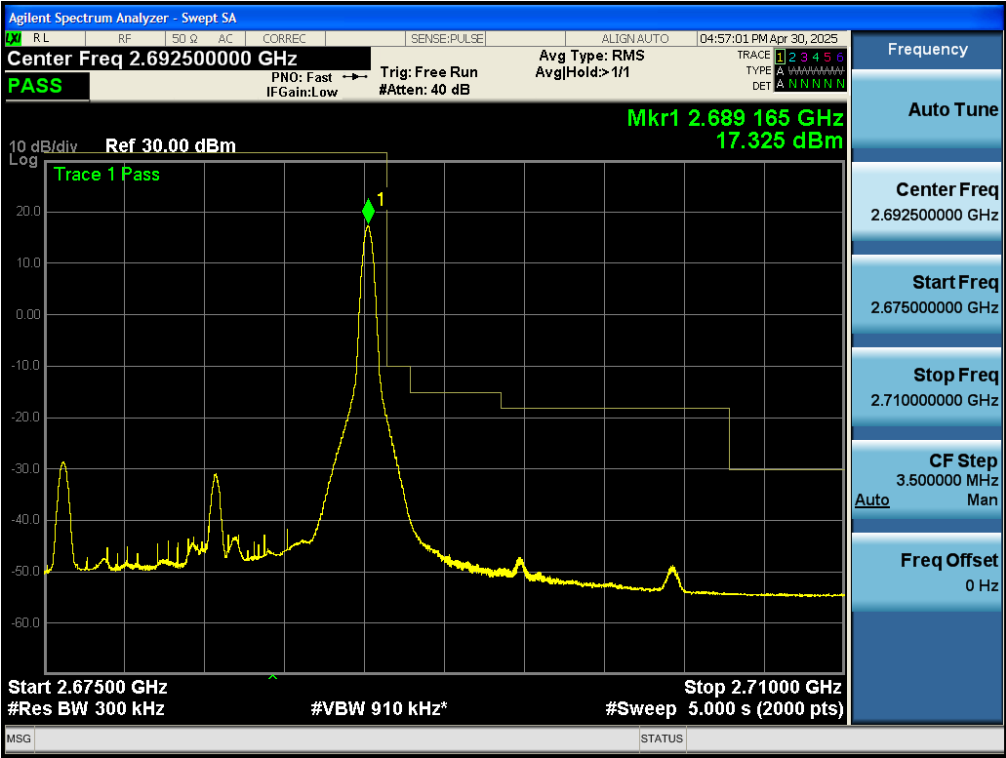
Test_Graph_band41_2503.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band41_2682.5MHz_15M_16QAM_1RB#HIGH_Band edge



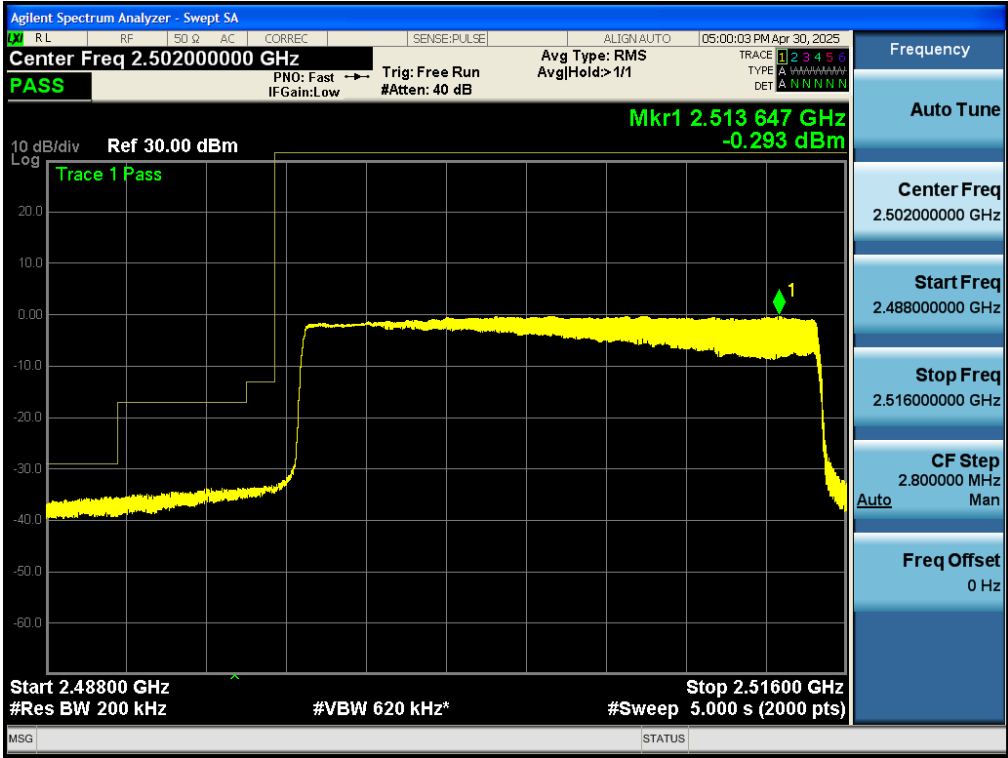
Test_Graph_band41_2682.5MHz_15M_16QAM_75RB#LOW_Band edge



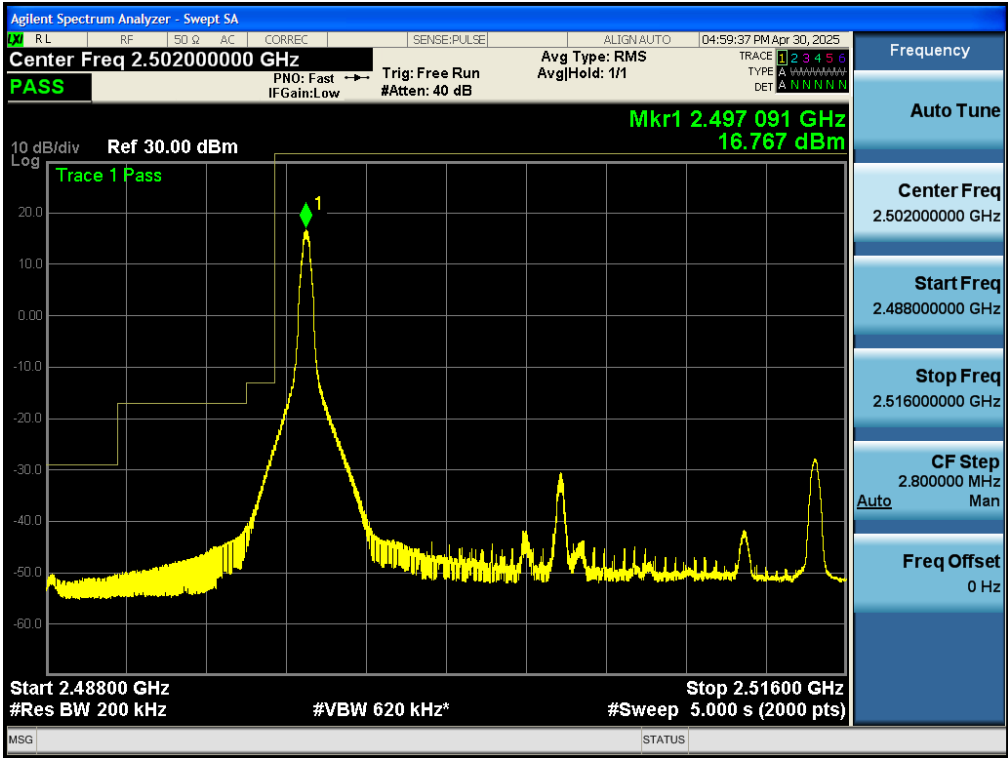
Test_Graph_band41_2682.5MHz_15M_QPSK_1RB#HIGH_Band edge



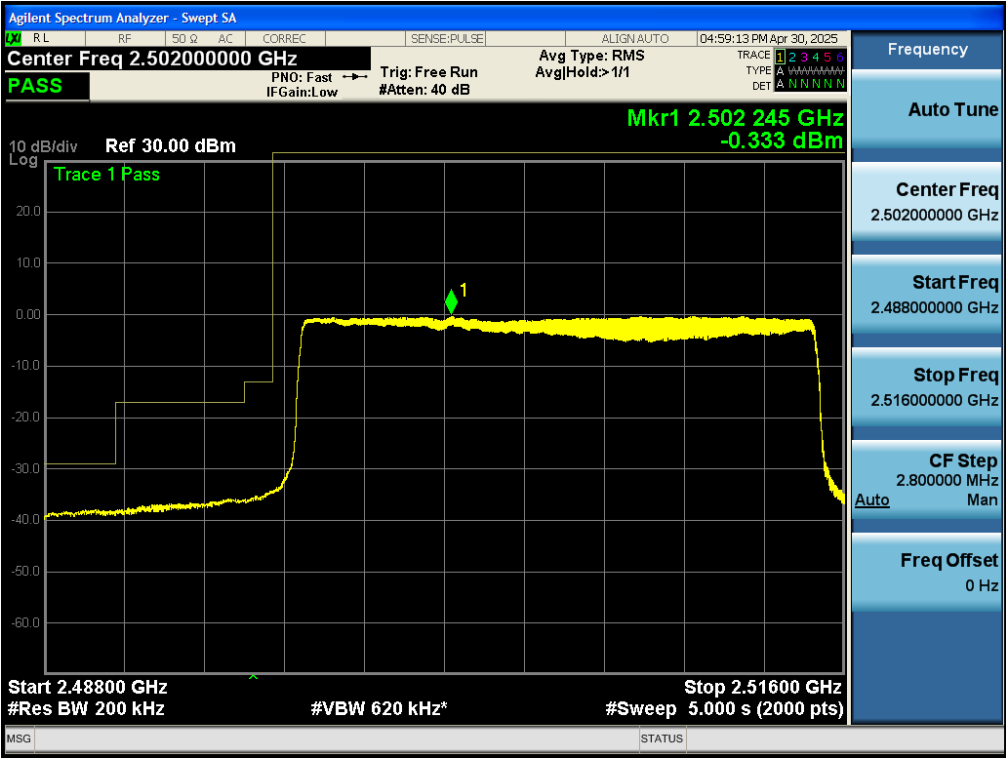
Test_Graph_band41_2682.5MHz_15M_QPSK_75RB#LOW_Band edge



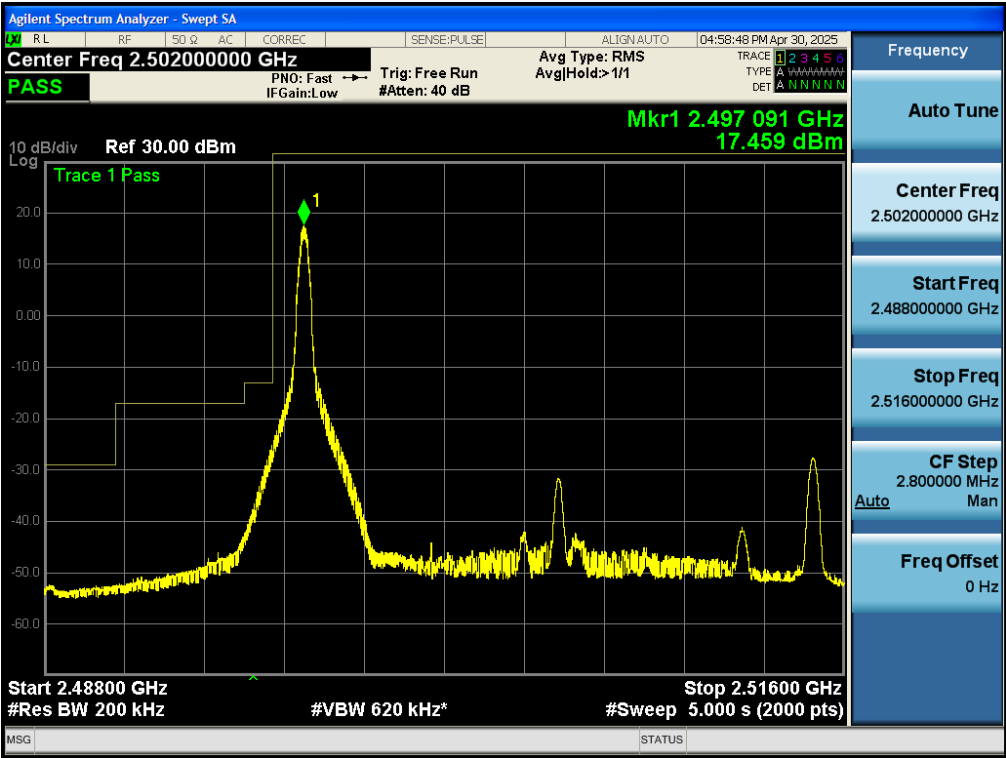
Test_Graph_band41_2506MHz_20M_16QAM_100RB#LOW_Band edge



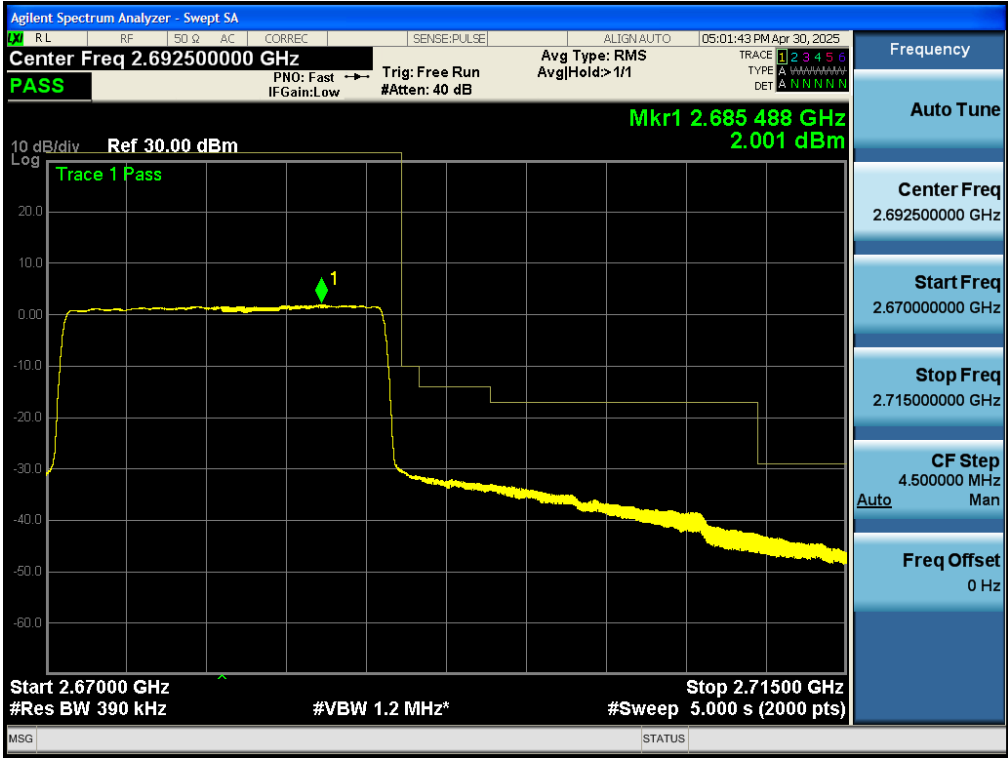
Test_Graph_band41_2506MHz_20M_16QAM_1RB#LOW_Band edge



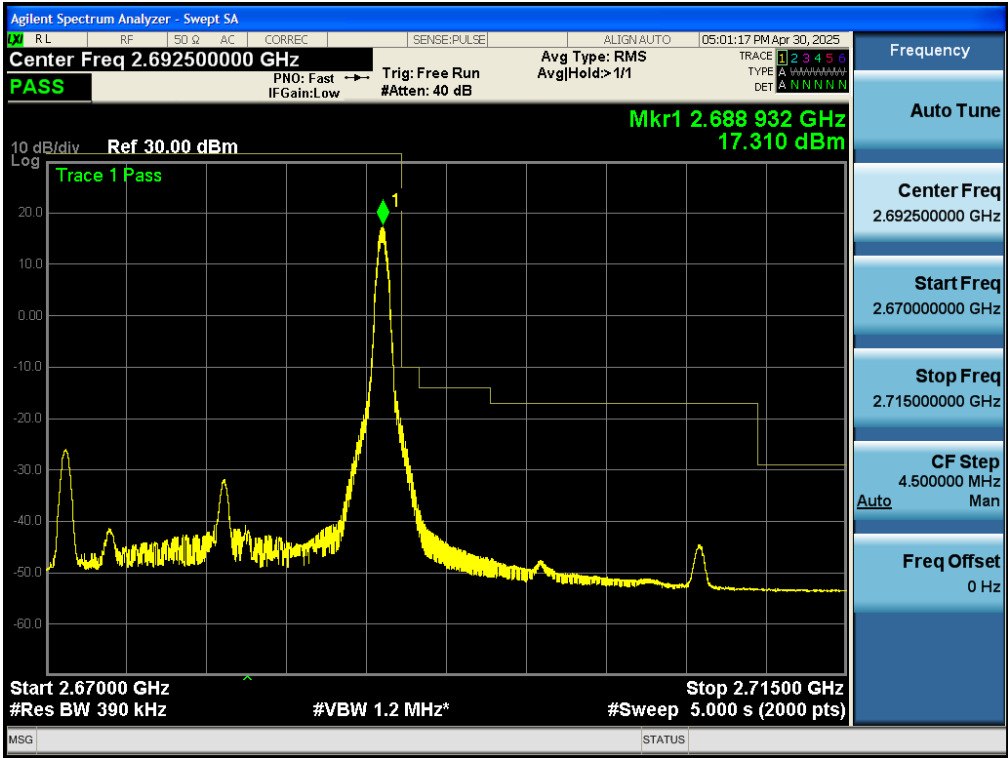
Test_Graph_band41_2506MHz_20M_QPSK_100RB#LOW_Band edge



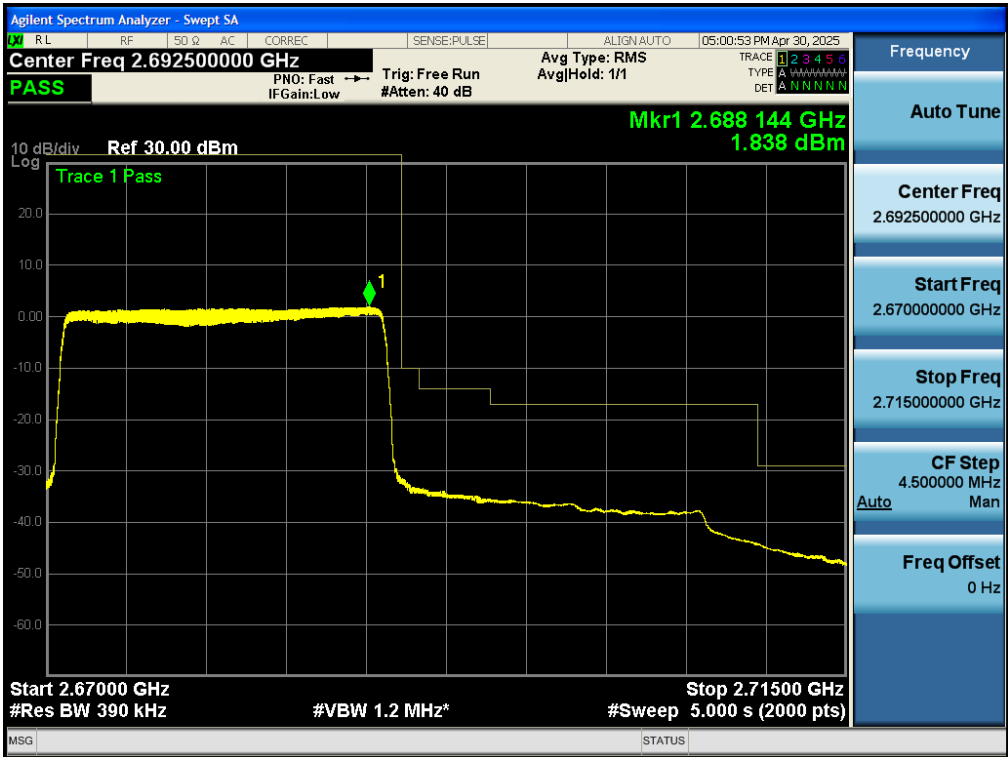
Test_Graph_band41_2506MHz_20M_QPSK_1RB#LOW_Band edge



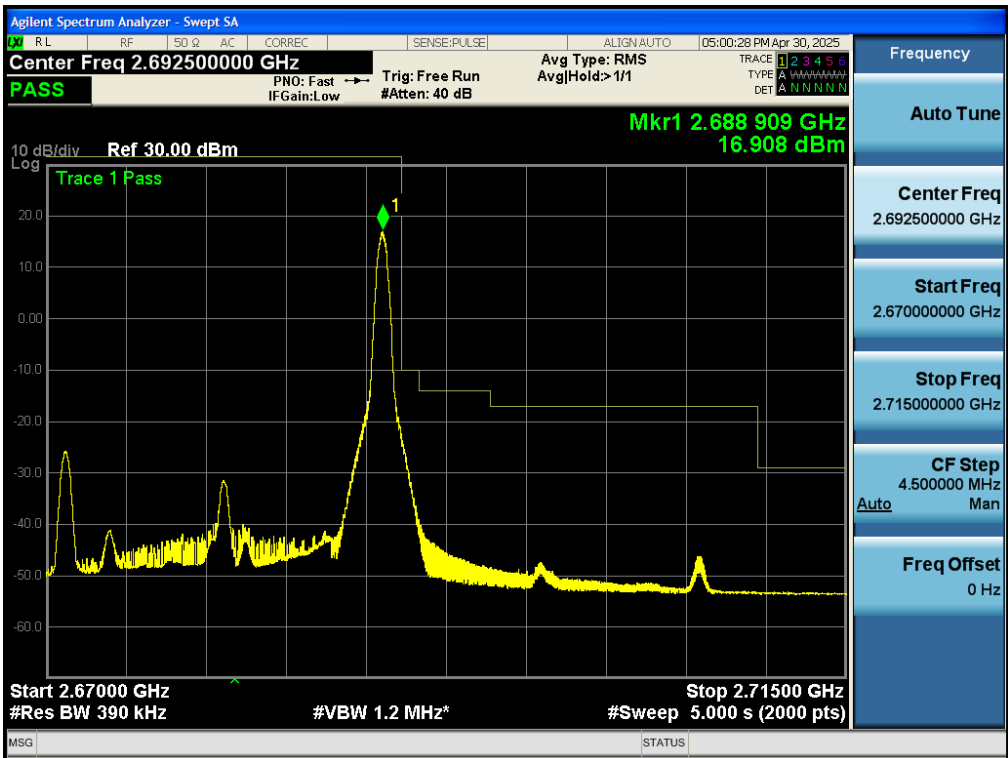
Test_Graph_band41_2680MHz_20M_16QAM_100RB#LOW_Band edge



Test_Graph_band41_2680MHz_20M_16QAM_1RB#HIGH_Band edge



Test_Graph_band41_2680MHz_20M_QPSK_100RB#LOW_Band edge



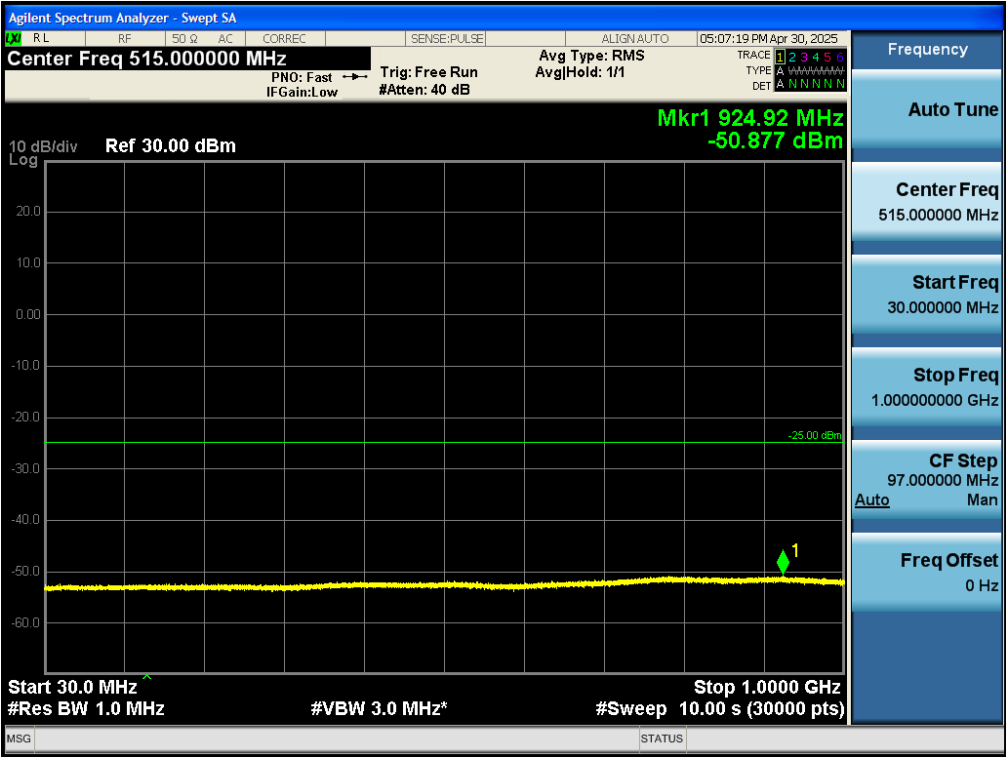
Test_Graph_band41_2680MHz_20M_QPSK_1RB#HIGH_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

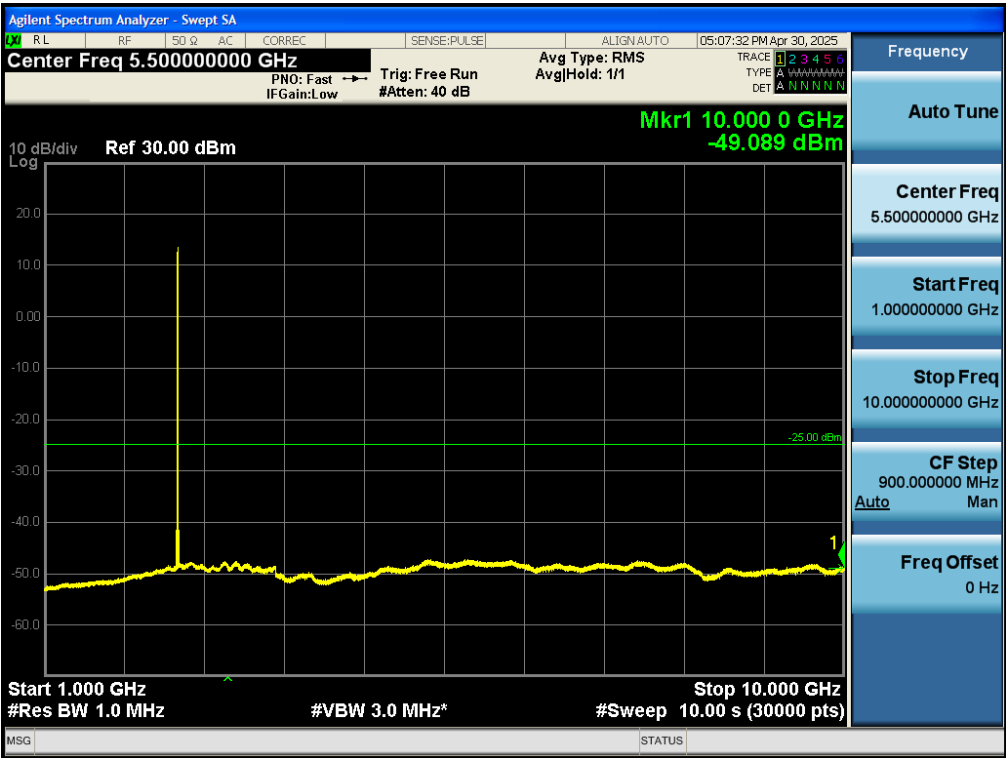
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
41	5	2498.5	QPSK	25	LOW	Pass
41	5	2593	QPSK	25	LOW	Pass
41	5	2687.5	QPSK	25	LOW	Pass
41	10	2501	QPSK	50	LOW	Pass
41	10	2593	QPSK	50	LOW	Pass
41	10	2685	QPSK	50	LOW	Pass
41	15	2503.5	QPSK	75	LOW	Pass
41	15	2593	QPSK	75	LOW	Pass
41	15	2682.5	QPSK	75	LOW	Pass
41	20	2506	QPSK	100	LOW	Pass
41	20	2593	QPSK	100	LOW	Pass
41	20	2680	QPSK	100	LOW	Pass

Test Graphs



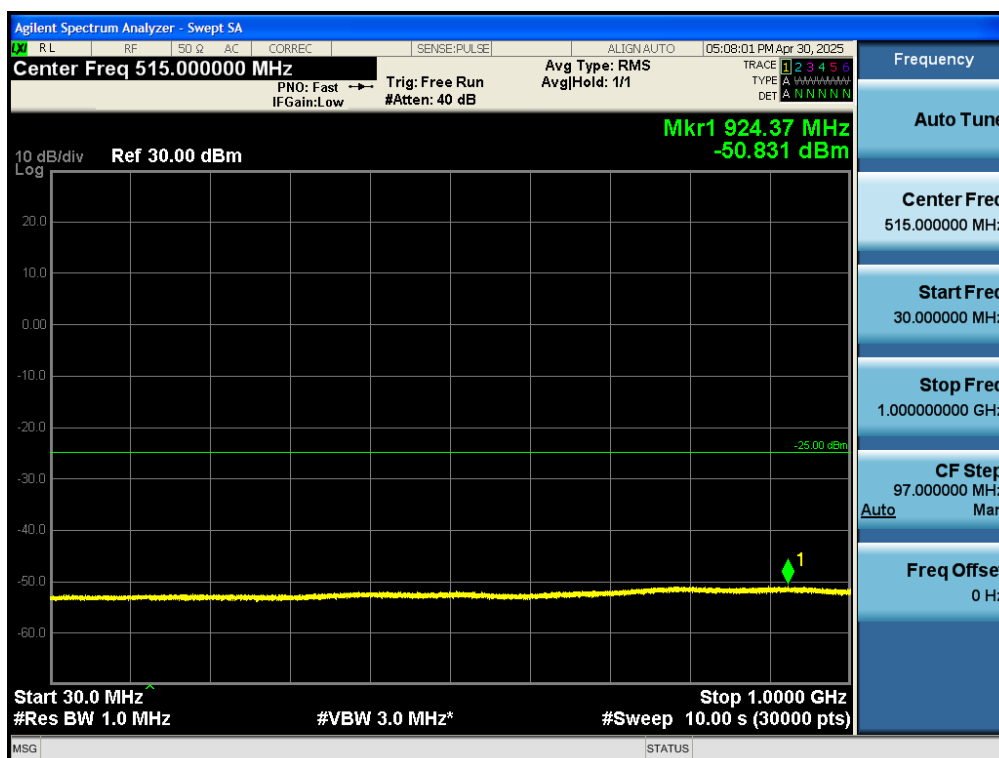
Test_Graph_band41_2498.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



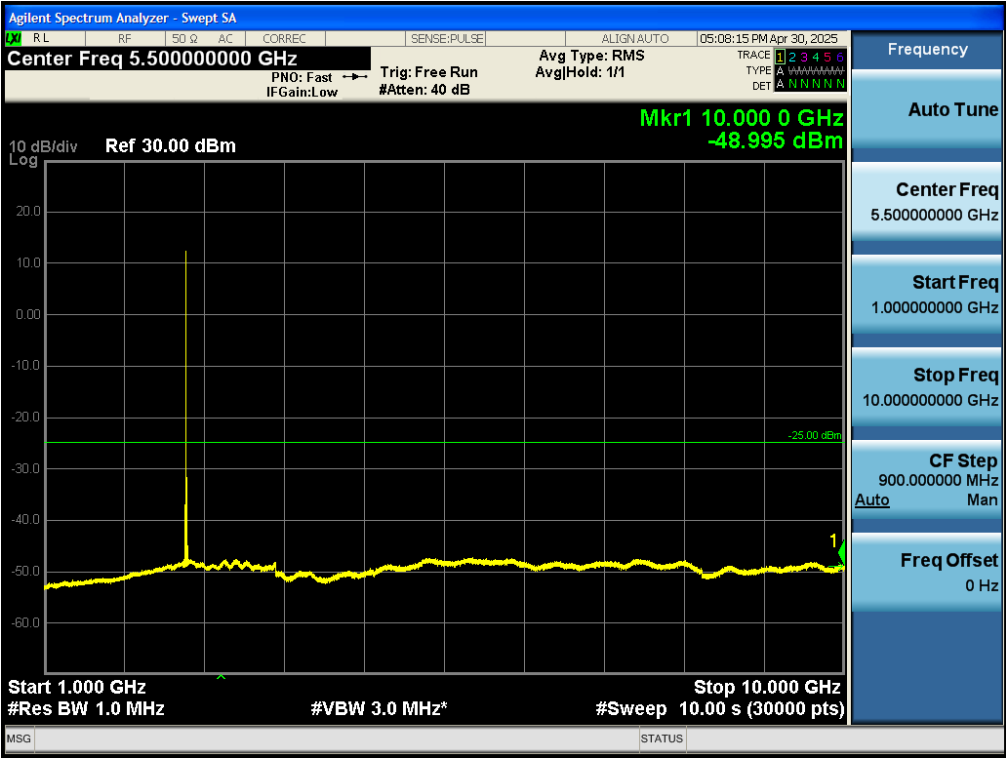
Test_Graph_band41_2498.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band41_2498.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



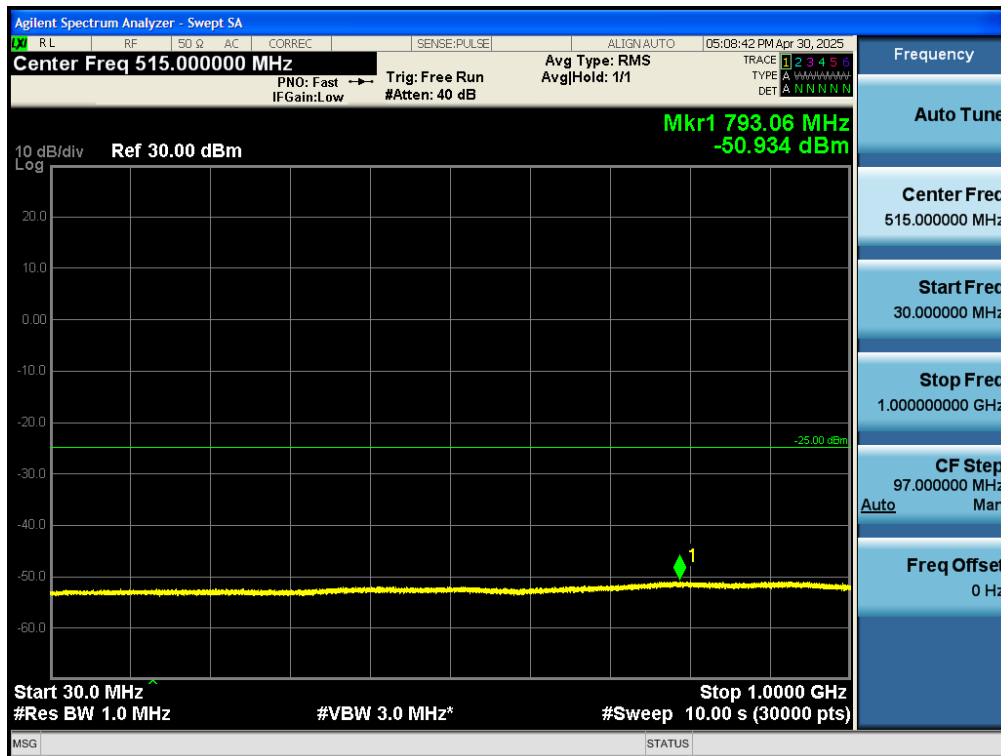
Test_Graph_band41_2593MHz_5M_QPSK_25RB#LOW_30M_1G_TX



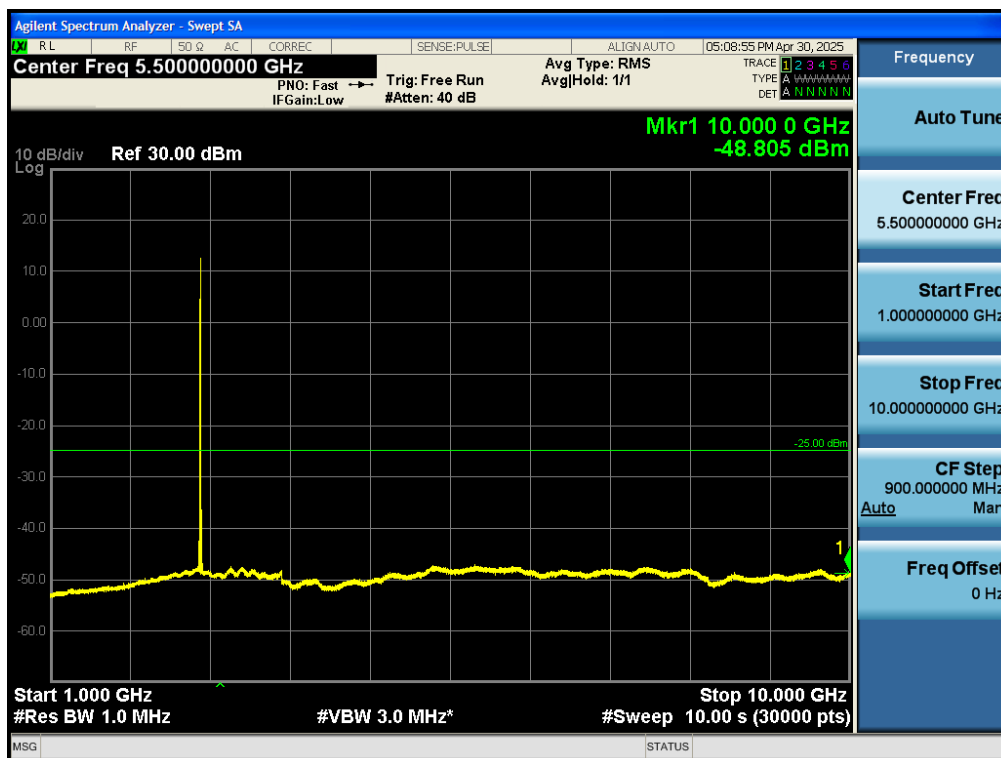
Test_Graph_band41_2593MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band41_2593MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



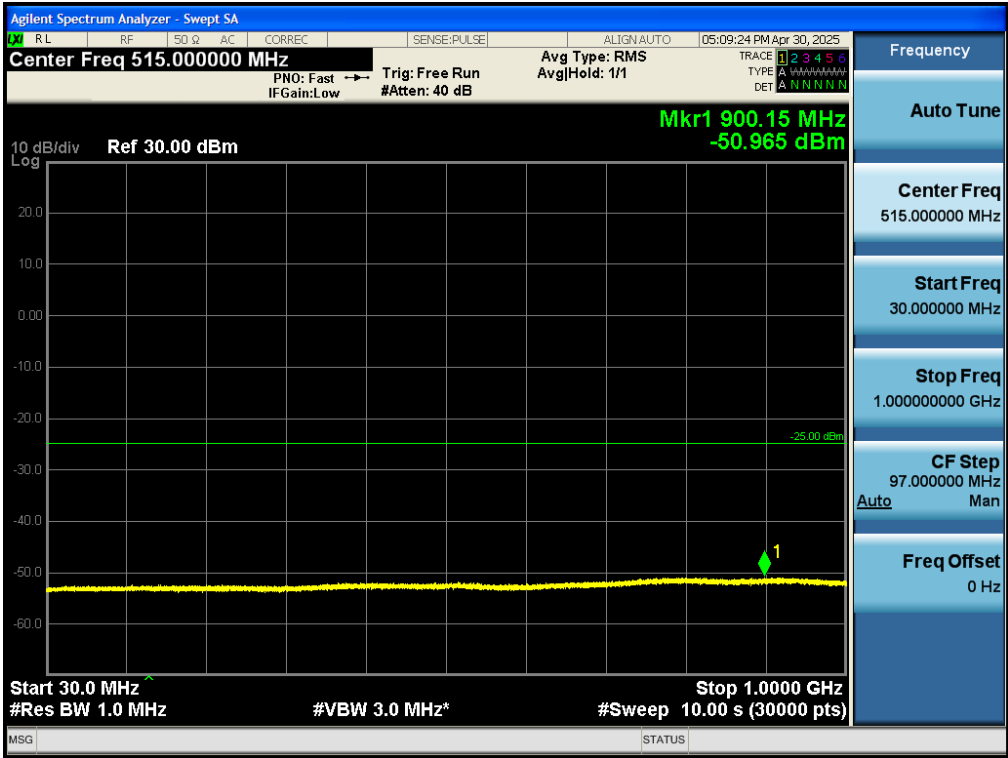
Test_Graph_band41_2687.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



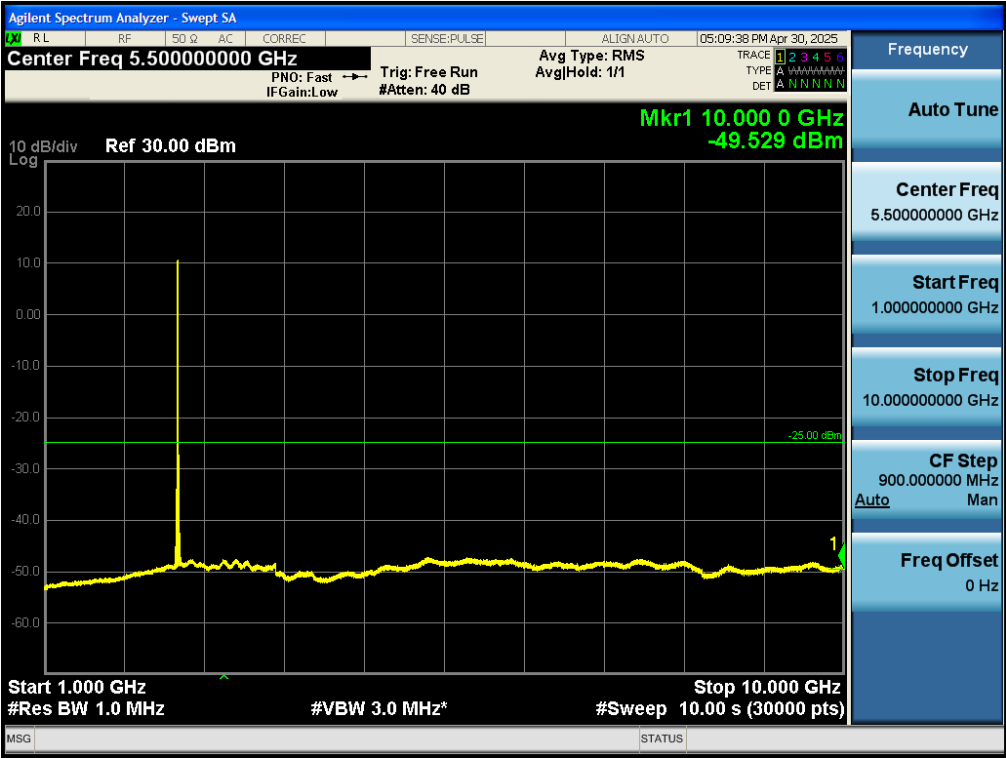
Test_Graph_band41_2687.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band41_2687.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



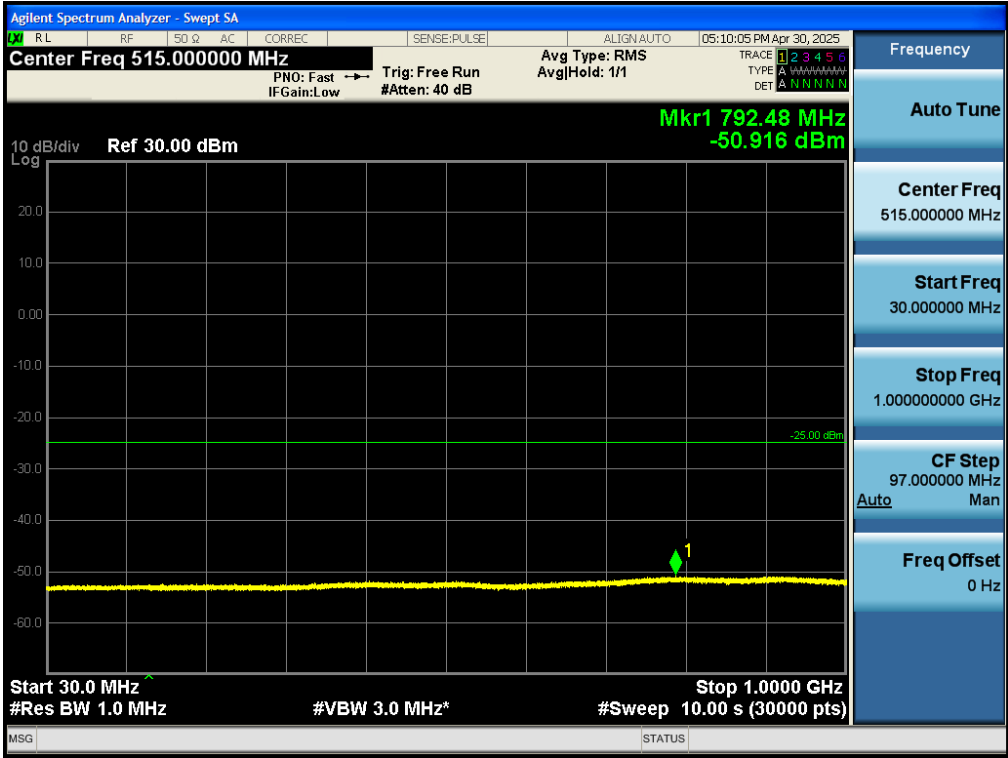
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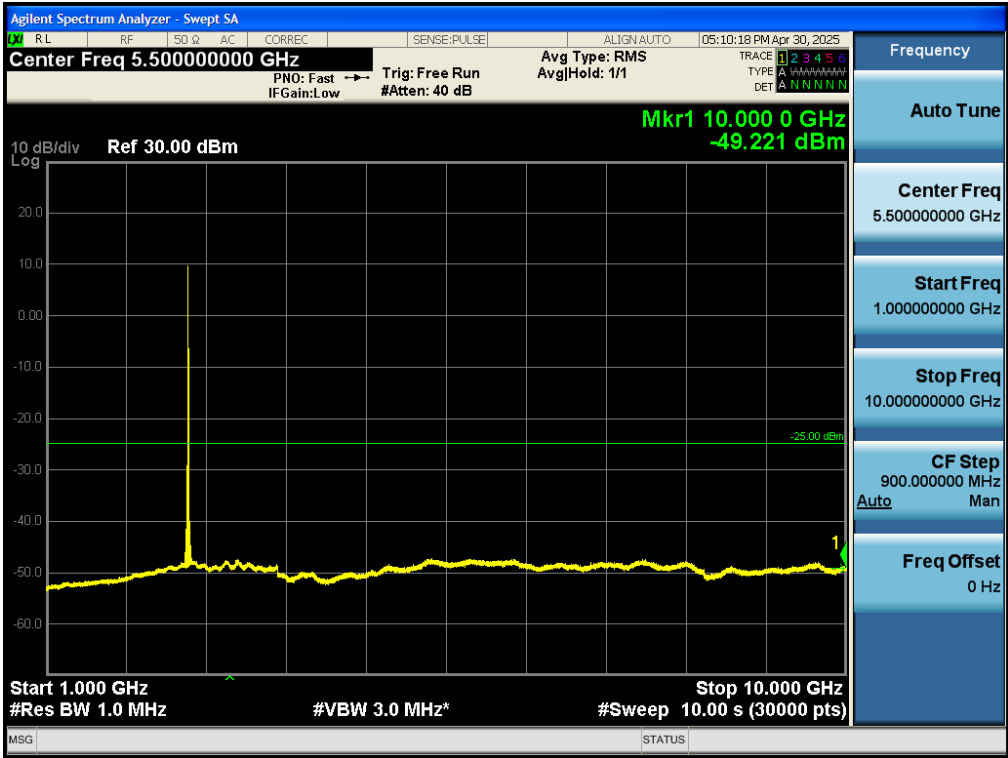
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Test_Graph_band41_2501MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



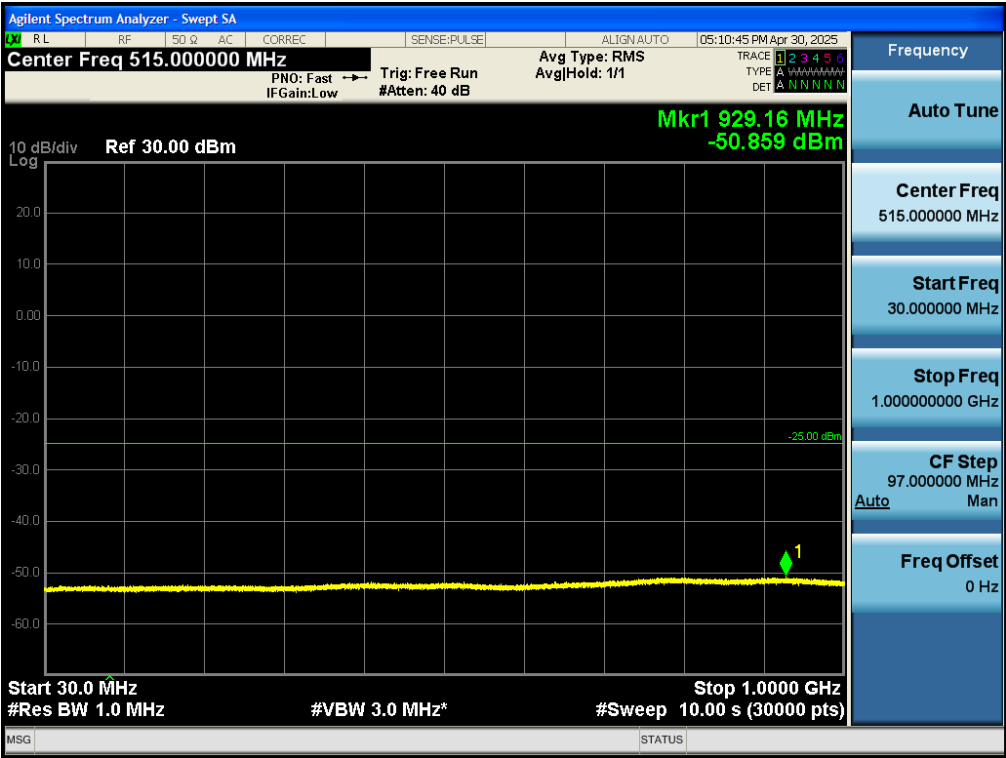
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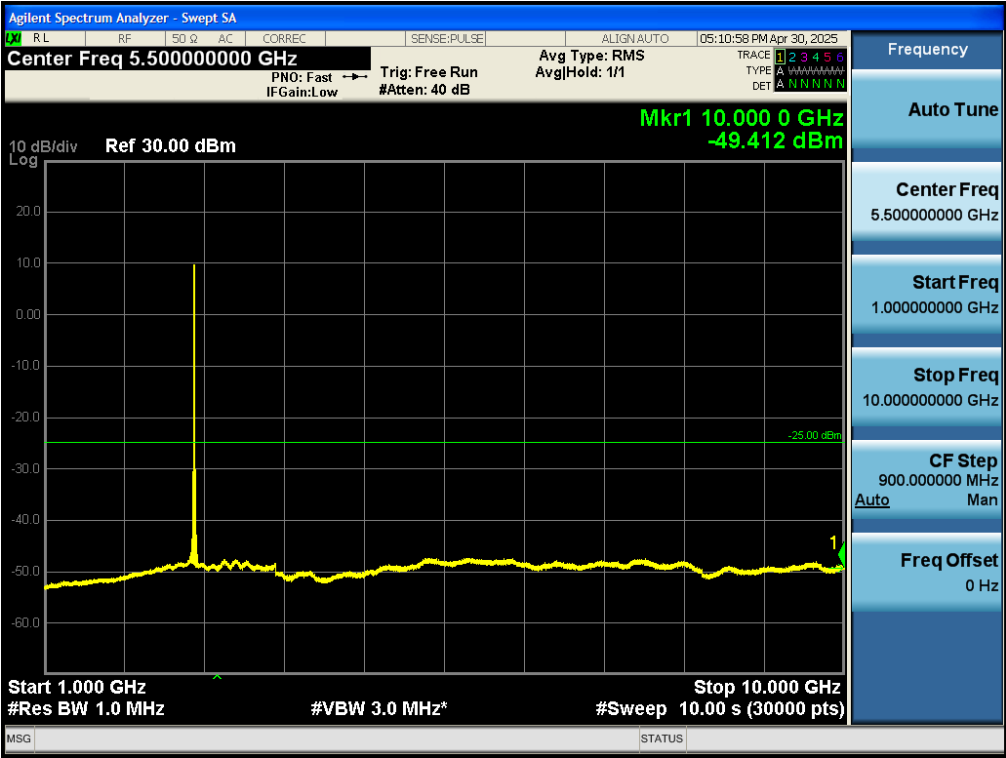
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Test_Graph_band41_2593MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



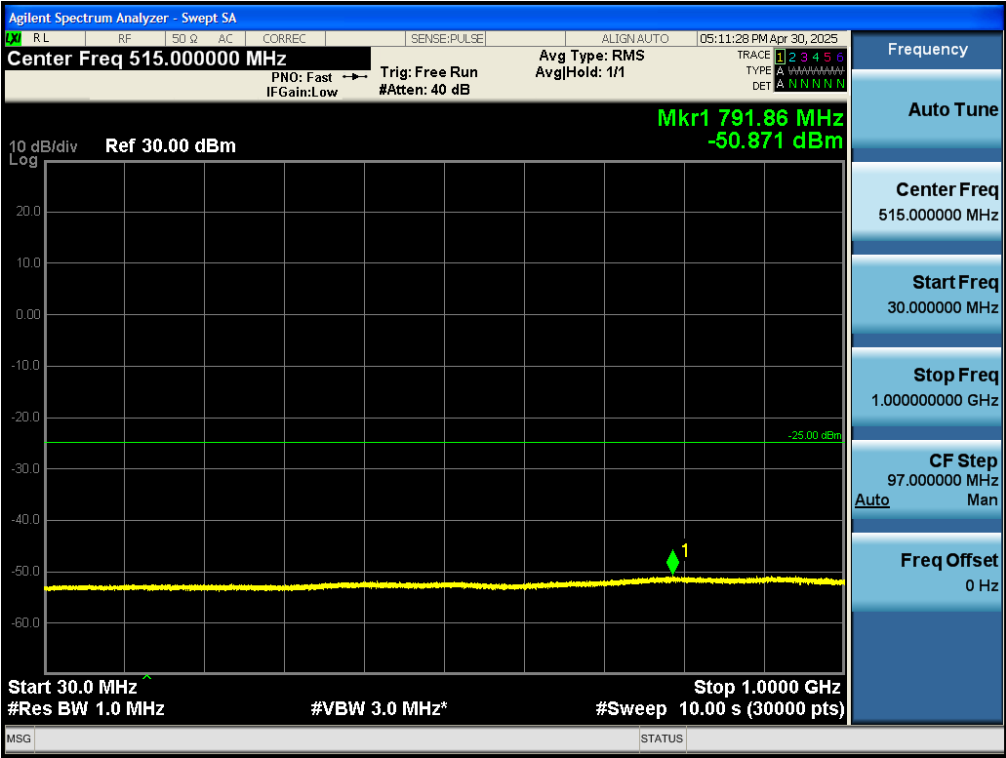
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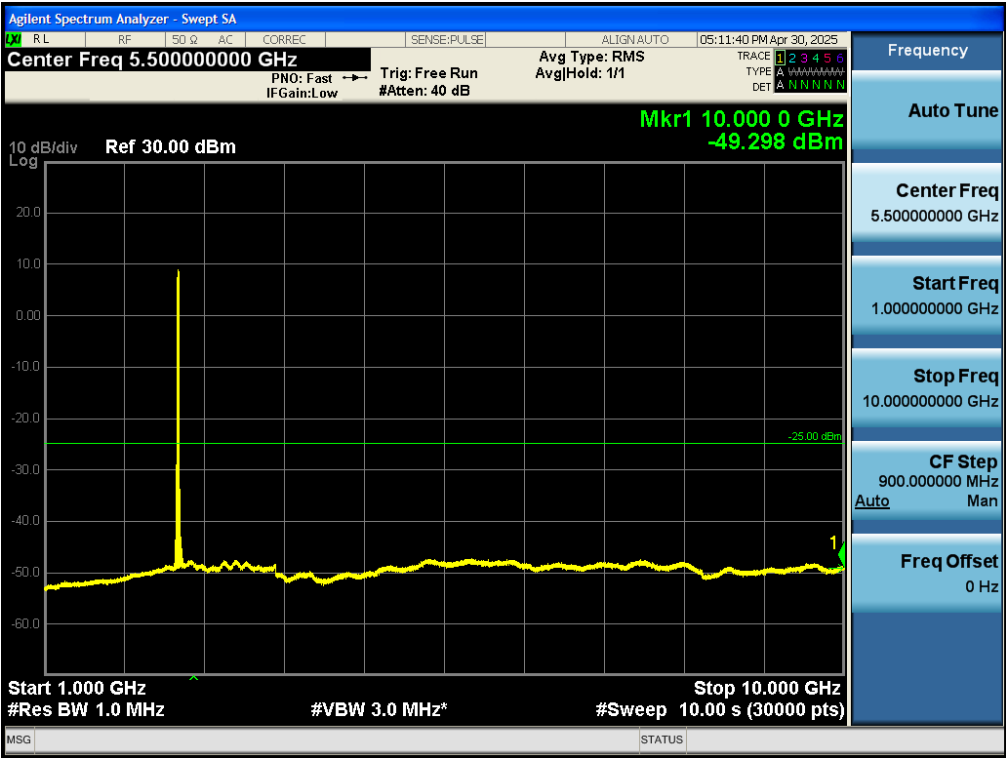
Test_Graph_band41_2685MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band41_2685MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



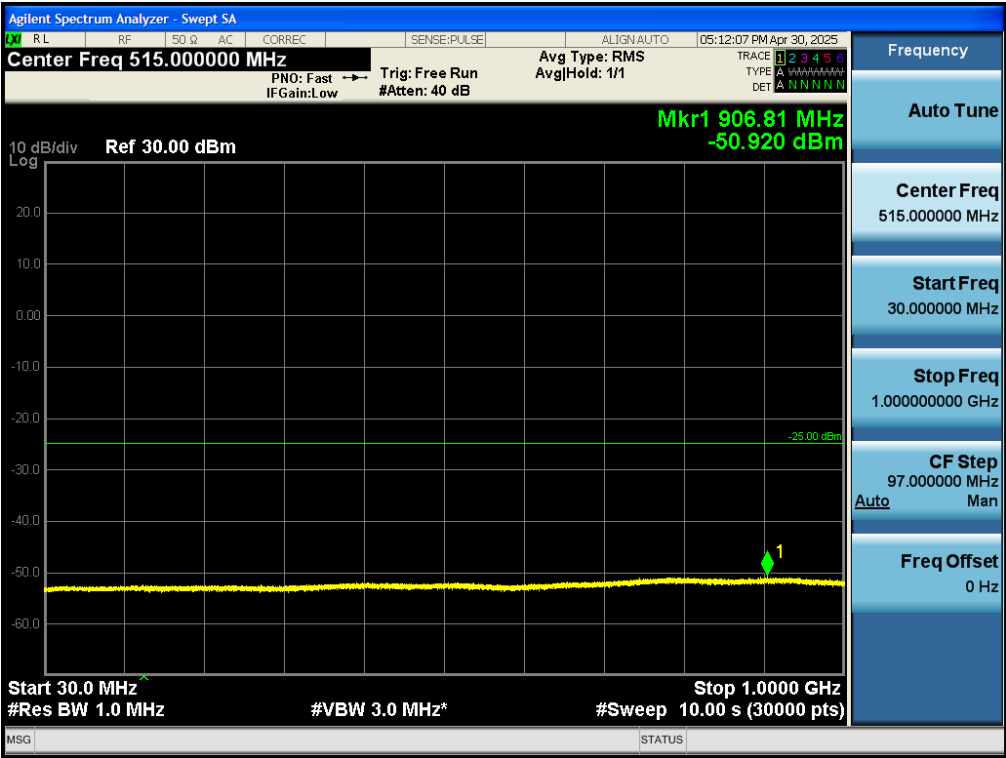
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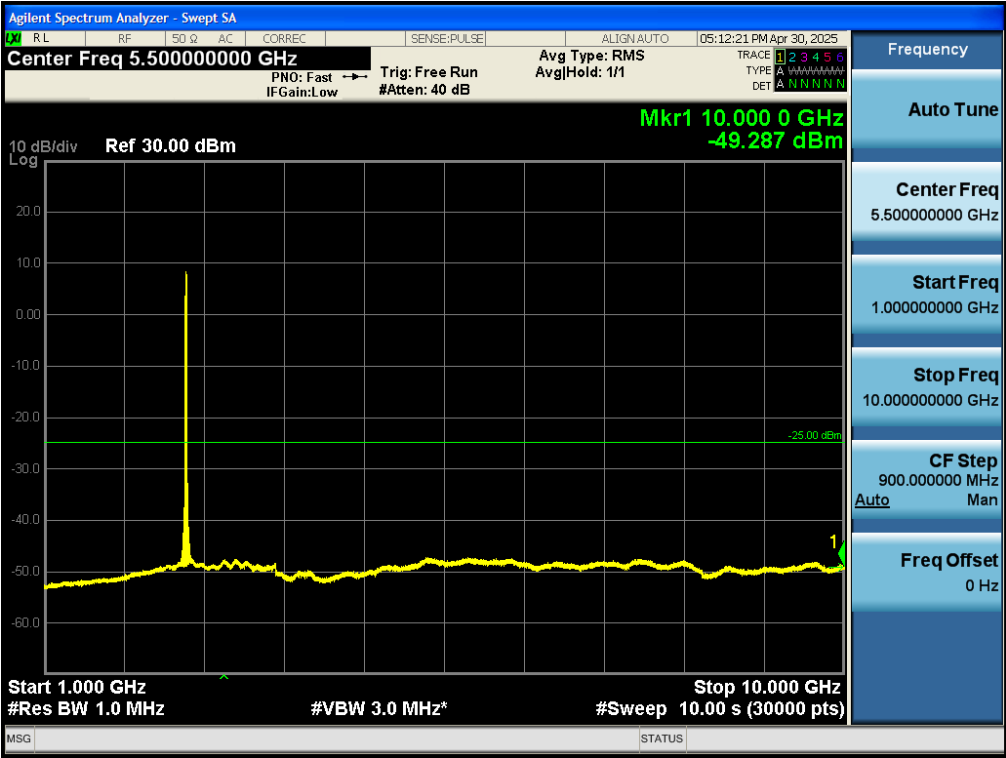
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Test_Graph_band41_2503.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



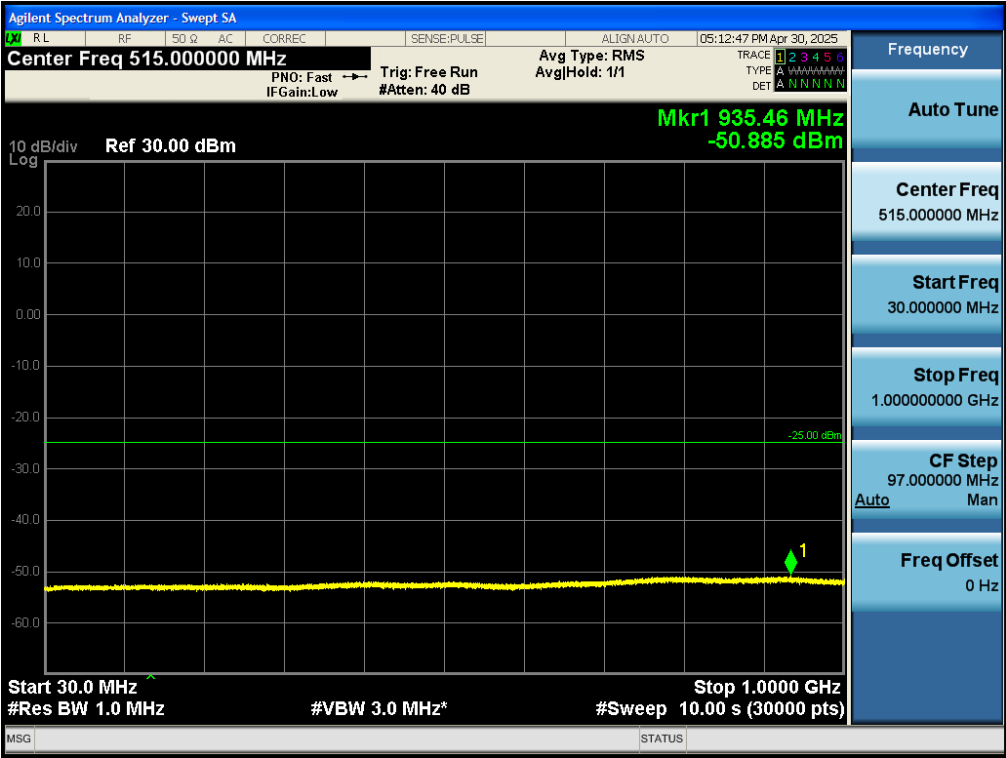
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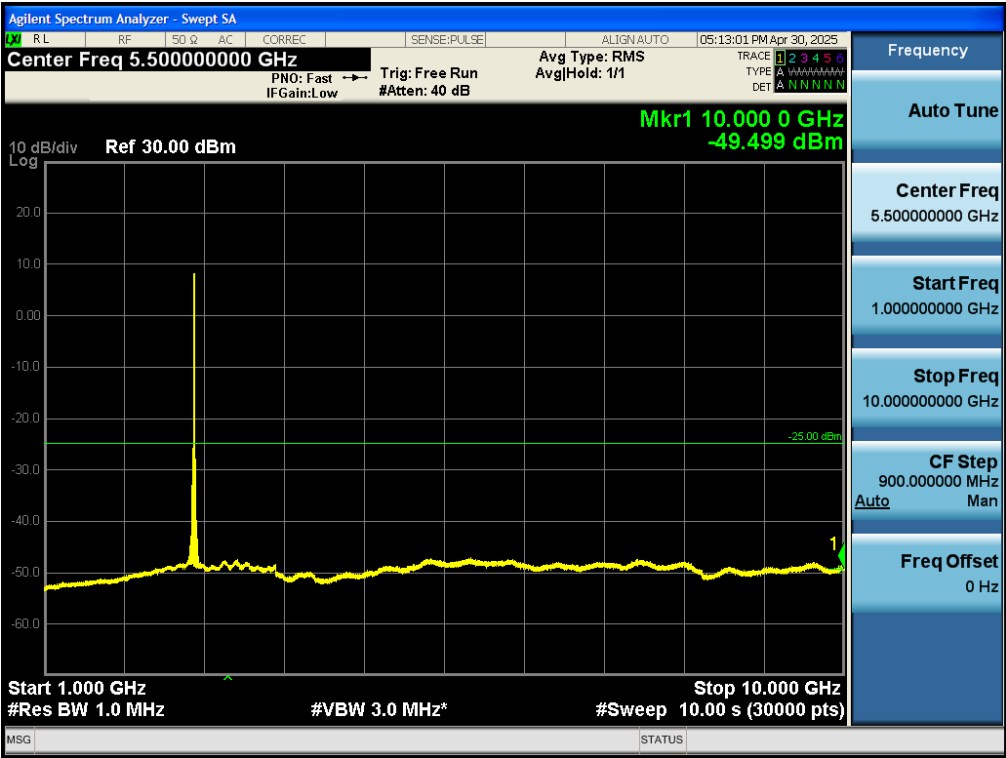
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Test_Graph_band41_2593MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



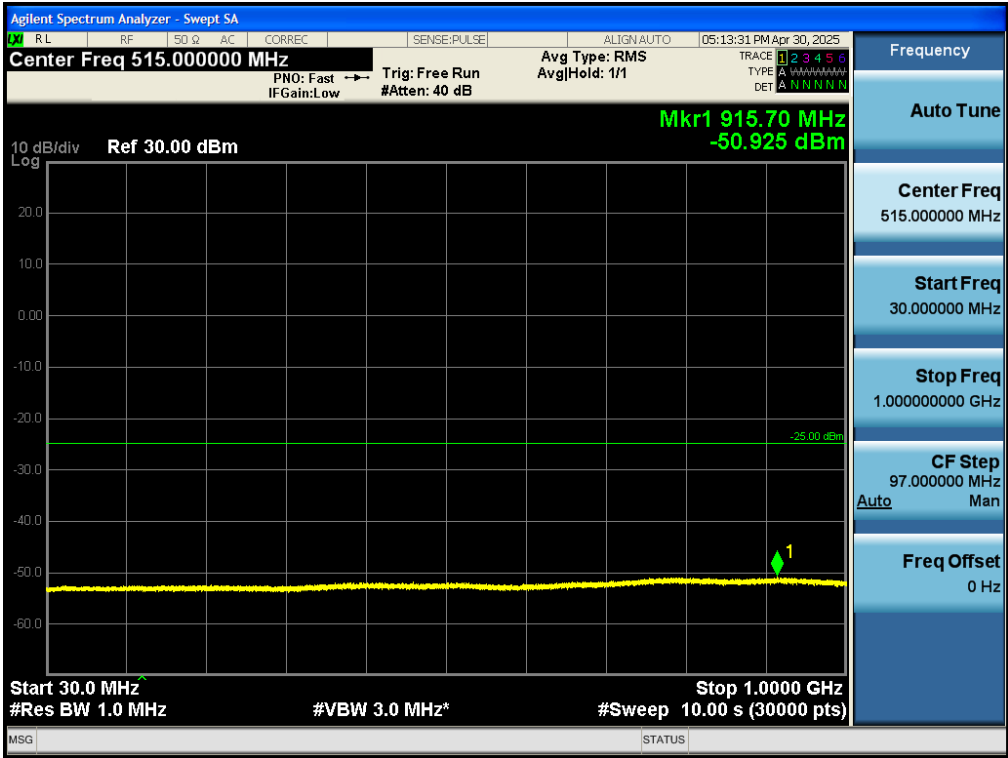
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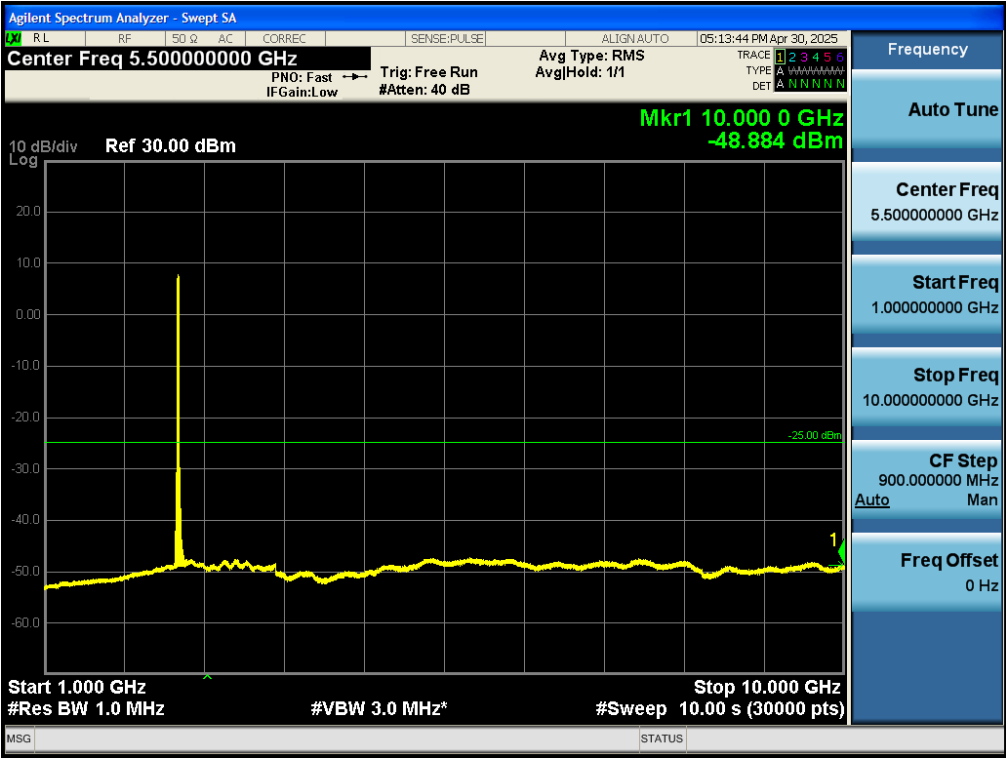
Test_Graph_band41_2682.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



Test_Graph_band41_2682.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



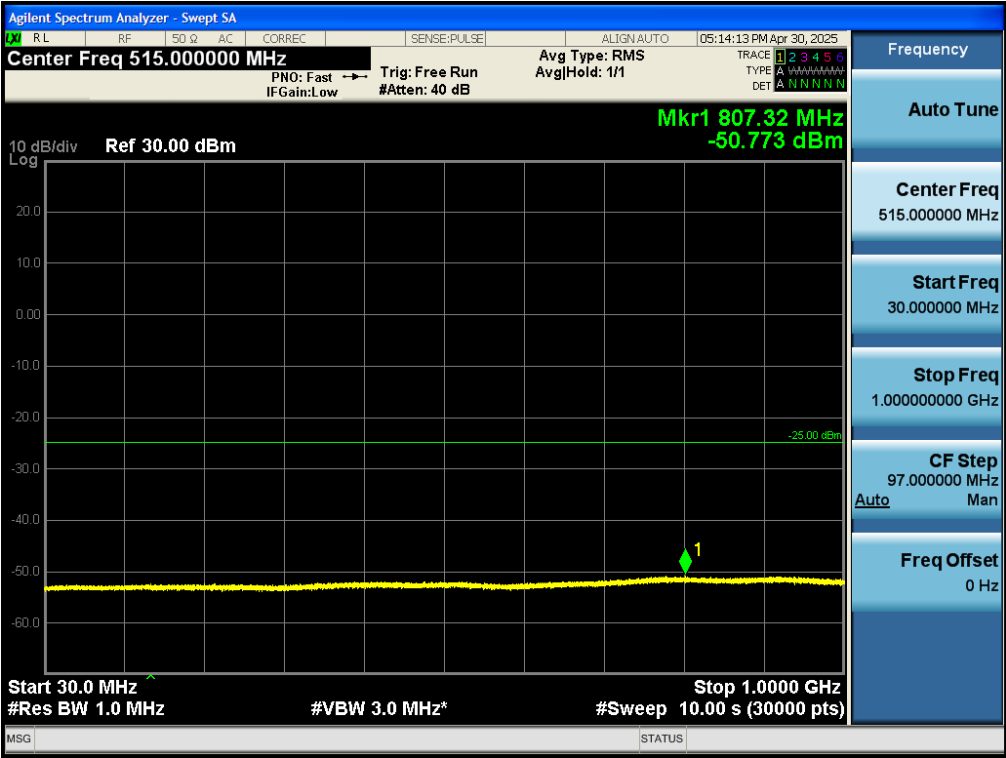
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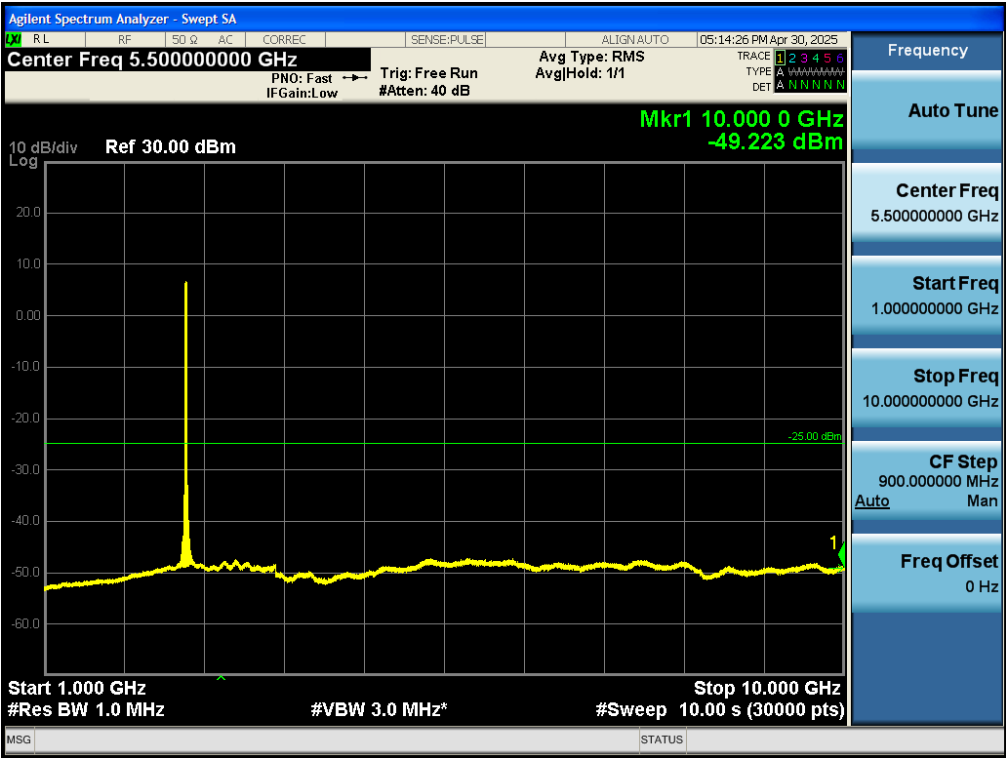
Test_Graph_band41_2506MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band41_2506MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX



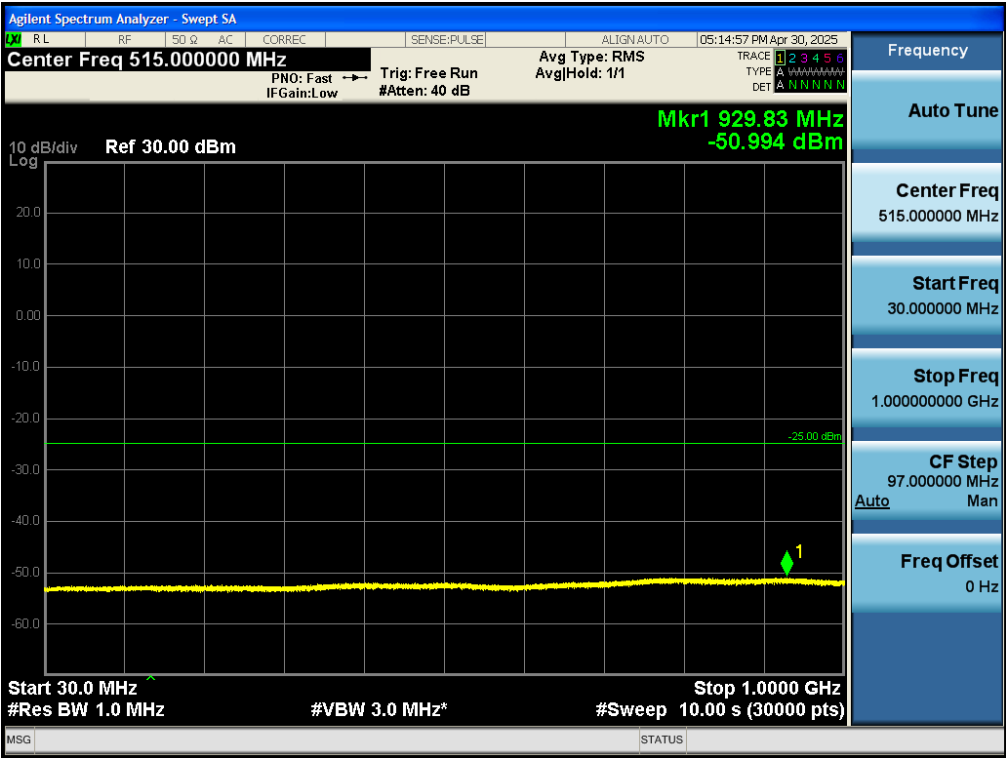
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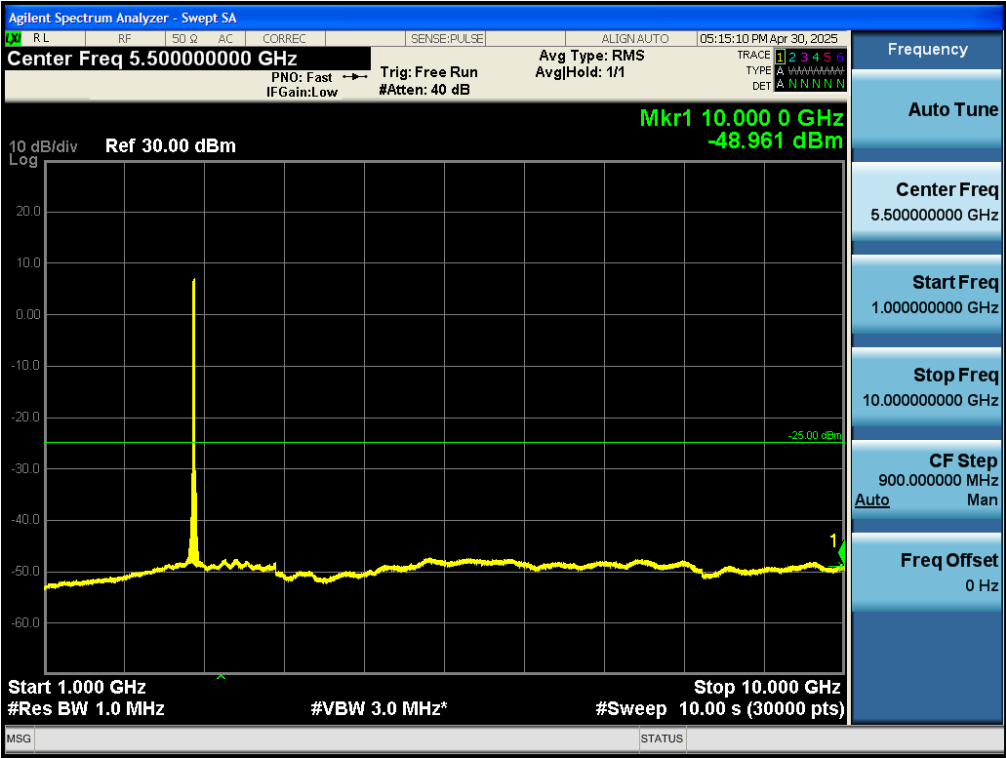
Test_Graph_band41_2593MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band41_2593MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX



Test_Graph_band41_2680MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band41_2680MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band41_2680MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX

Appendix E: Frequency stability

Test Result

Test Conditions (LTE Band 41(QPSK) /BW 20MHz)		Frequency Range		Frequency Error	Verdict
Temperature (°C)	Voltage (Volt)	>2496 Freq Reading @ Low End (MHz)	<2690 Freq Reading @ High End (MHz)	Middle Channel	
				≤2.5ppm	
50	Normal Voltage	2497.0707	2688.9697	0.0067	PASS
40	Normal Voltage	2497.0707	2688.9697	0.0070	
30	Normal Voltage	2497.0707	2688.9697	0.0069	
20(Ref.)	Normal Voltage	2497.0708	2688.9698	0.0064	
10	Normal Voltage	2497.0709	2688.9697	0.0062	
0	Normal Voltage	2497.0708	2688.9697	0.0069	
-10	Normal Voltage	2497.0709	2688.9698	0.0063	
-20	Normal Voltage	2497.0708	2688.9698	0.0070	
-30	Normal Voltage	2497.0708	2688.9698	0.0064	
20	+15%	2497.0708	2688.9698	0.0061	
20	-15%	2497.0708	2688.9697	0.0070	
20	Battery End Point	2497.0708	2688.9698	0.0069	