

Appendix Test Data for LTE band 38(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
38	5	2572.5	QPSK	25	LOW	21.53	27.64	6.11	13	1.97	23.5	33	Pass
38	5	2572.5	QPSK	12	LOW	21.53	27.99	6.46	13	1.97	23.5	33	Pass
38	5	2572.5	QPSK	12	MID	21.53	27.98	6.45	13	1.97	23.5	33	Pass
38	5	2572.5	QPSK	12	HIGH	21.51	27.88	6.37	13	1.97	23.48	33	Pass
38	5	2572.5	QPSK	1	LOW	22.45	27.78	5.33	13	1.97	24.42	33	Pass
38	5	2572.5	QPSK	1	MID	22.52	27.79	5.27	13	1.97	24.49	33	Pass
38	5	2572.5	QPSK	1	HIGH	22.45	27.68	5.23	13	1.97	24.42	33	Pass
38	5	2572.5	16QAM	25	LOW	20.57	28.09	7.52	13	1.97	22.54	33	Pass
38	5	2572.5	16QAM	12	LOW	20.56	27.54	6.98	13	1.97	22.53	33	Pass
38	5	2572.5	16QAM	12	MID	20.63	27.6	6.97	13	1.97	22.60	33	Pass
38	5	2572.5	16QAM	12	HIGH	20.56	27.48	6.92	13	1.97	22.53	33	Pass
38	5	2572.5	16QAM	1	LOW	21.77	27.54	5.77	13	1.97	23.74	33	Pass
38	5	2572.5	16QAM	1	MID	21.86	27.58	5.72	13	1.97	23.83	33	Pass
38	5	2572.5	16QAM	1	HIGH	21.75	27.43	5.68	13	1.97	23.72	33	Pass
38	5	2595	QPSK	25	LOW	21.58	28.37	6.79	13	1.97	23.55	33	Pass
38	5	2595	QPSK	12	LOW	21.55	27.88	6.33	13	1.97	23.52	33	Pass
38	5	2595	QPSK	12	MID	21.6	27.91	6.31	13	1.97	23.57	33	Pass
38	5	2595	QPSK	12	HIGH	21.5	27.77	6.27	13	1.97	23.47	33	Pass
38	5	2595	QPSK	1	LOW	22.46	27.79	5.33	13	1.97	24.43	33	Pass
38	5	2595	QPSK	1	MID	22.55	27.85	5.30	13	1.97	24.52	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
38	5	2595	QPSK	1	HIGH	22.47	27.69	5.22	13	1.97	24.44	33	Pass
38	5	2595	16QAM	25	LOW	20.58	28.42	7.84	13	1.97	22.55	33	Pass
38	5	2595	16QAM	12	LOW	20.62	27.47	6.85	13	1.97	22.59	33	Pass
38	5	2595	16QAM	12	MID	20.64	27.5	6.86	13	1.97	22.61	33	Pass
38	5	2595	16QAM	12	HIGH	20.56	27.39	6.83	13	1.97	22.53	33	Pass
38	5	2595	16QAM	1	LOW	21.8	27.56	5.76	13	1.97	23.77	33	Pass
38	5	2595	16QAM	1	MID	21.89	27.6	5.71	13	1.97	23.86	33	Pass
38	5	2595	16QAM	1	HIGH	21.78	27.45	5.67	13	1.97	23.75	33	Pass
38	5	2617.5	QPSK	25	LOW	21.55	27.92	6.37	13	1.97	23.52	33	Pass
38	5	2617.5	QPSK	12	LOW	21.52	27.95	6.43	13	1.97	23.49	33	Pass
38	5	2617.5	QPSK	12	MID	21.53	27.95	6.42	13	1.97	23.5	33	Pass
38	5	2617.5	QPSK	12	HIGH	21.55	27.87	6.32	13	1.97	23.52	33	Pass
38	5	2617.5	QPSK	1	LOW	22.45	27.79	5.34	13	1.97	24.42	33	Pass
38	5	2617.5	QPSK	1	MID	22.57	27.84	5.27	13	1.97	24.54	33	Pass
38	5	2617.5	QPSK	1	HIGH	22.47	27.69	5.22	13	1.97	24.44	33	Pass
38	5	2617.5	16QAM	25	LOW	20.6	28.19	7.59	13	1.97	22.57	33	Pass
38	5	2617.5	16QAM	12	LOW	20.58	27.52	6.94	13	1.97	22.55	33	Pass
38	5	2617.5	16QAM	12	MID	20.61	27.5	6.89	13	1.97	22.58	33	Pass
38	5	2617.5	16QAM	12	HIGH	20.59	27.47	6.88	13	1.97	22.56	33	Pass
38	5	2617.5	16QAM	1	LOW	21.79	27.54	5.75	13	1.97	23.76	33	Pass
38	5	2617.5	16QAM	1	MID	21.88	27.59	5.71	13	1.97	23.85	33	Pass
38	5	2617.5	16QAM	1	HIGH	21.8	27.46	5.66	13	1.97	23.77	33	Pass
38	10	2575	QPSK	50	LOW	21.66	28.05	6.39	13	1.97	23.63	33	Pass
38	10	2575	QPSK	25	LOW	21.7	28.21	6.51	13	1.97	23.67	33	Pass
38	10	2575	QPSK	25	MID	21.7	28.25	6.55	13	1.97	23.67	33	Pass
38	10	2575	QPSK	25	HIGH	21.69	28.08	6.39	13	1.97	23.66	33	Pass
38	10	2575	QPSK	1	LOW	22.52	27.5	4.98	13	1.97	24.49	33	Pass
38	10	2575	QPSK	1	MID	22.76	27.6	4.84	13	1.97	24.73	33	Pass
38	10	2575	QPSK	1	HIGH	22.53	27.29	4.76	13	1.97	24.5	33	Pass
38	10	2575	16QAM	50	LOW	20.78	28.52	7.74	13	1.97	22.75	33	Pass
38	10	2575	16QAM	25	LOW	20.81	28.1	7.29	13	1.97	22.78	33	Pass
38	10	2575	16QAM	25	MID	20.82	28.17	7.35	13	1.97	22.79	33	Pass
38	10	2575	16QAM	25	HIGH	20.77	28.07	7.30	13	1.97	22.74	33	Pass
38	10	2575	16QAM	1	LOW	22.13	28.3	6.17	13	1.97	24.10	33	Pass
38	10	2575	16QAM	1	MID	22.33	28.3	5.97	13	1.97	24.30	33	Pass
38	10	2575	16QAM	1	HIGH	22.13	27.98	5.85	13	1.97	24.10	33	Pass
38	10	2595	QPSK	50	LOW	21.7	28.11	6.41	13	1.97	23.67	33	Pass
38	10	2595	QPSK	25	LOW	21.69	28.16	6.47	13	1.97	23.66	33	Pass
38	10	2595	QPSK	25	MID	21.69	28.19	6.5	13	1.97	23.66	33	Pass
38	10	2595	QPSK	25	HIGH	21.68	28.08	6.40	13	1.97	23.65	33	Pass
38	10	2595	QPSK	1	LOW	22.51	27.49	4.98	13	1.97	24.48	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
38	10	2595	QPSK	1	MID	22.59	27.43	4.84	13	1.97	24.56	33	Pass
38	10	2595	QPSK	1	HIGH	22.48	27.26	4.78	13	1.97	24.45	33	Pass
38	10	2595	16QAM	50	LOW	20.76	28.39	7.63	13	1.97	22.73	33	Pass
38	10	2595	16QAM	25	LOW	20.8	28.09	7.29	13	1.97	22.77	33	Pass
38	10	2595	16QAM	25	MID	20.83	28.11	7.28	13	1.97	22.80	33	Pass
38	10	2595	16QAM	25	HIGH	20.8	28.05	7.25	13	1.97	22.77	33	Pass
38	10	2595	16QAM	1	LOW	22.11	28.29	6.18	13	1.97	24.08	33	Pass
38	10	2595	16QAM	1	MID	22.32	28.29	5.97	13	1.97	24.29	33	Pass
38	10	2595	16QAM	1	HIGH	22.1	27.95	5.85	13	1.97	24.07	33	Pass
38	10	2615	QPSK	50	LOW	21.7	28.18	6.48	13	1.97	23.67	33	Pass
38	10	2615	QPSK	25	LOW	21.71	28.11	6.40	13	1.97	23.68	33	Pass
38	10	2615	QPSK	25	MID	21.7	28.12	6.42	13	1.97	23.67	33	Pass
38	10	2615	QPSK	25	HIGH	21.66	28.02	6.36	13	1.97	23.63	33	Pass
38	10	2615	QPSK	1	LOW	22.52	27.5	4.98	13	1.97	24.49	33	Pass
38	10	2615	QPSK	1	MID	22.69	27.55	4.86	13	1.97	24.66	33	Pass
38	10	2615	QPSK	1	HIGH	22.48	27.26	4.78	13	1.97	24.45	33	Pass
38	10	2615	16QAM	50	LOW	20.77	28.39	7.62	13	1.97	22.74	33	Pass
38	10	2615	16QAM	25	LOW	20.81	28.11	7.30	13	1.97	22.78	33	Pass
38	10	2615	16QAM	25	MID	20.8	28.08	7.28	13	1.97	22.77	33	Pass
38	10	2615	16QAM	25	HIGH	20.78	28.01	7.23	13	1.97	22.75	33	Pass
38	10	2615	16QAM	1	LOW	22.11	28.28	6.17	13	1.97	24.08	33	Pass
38	10	2615	16QAM	1	MID	22.32	28.29	5.97	13	1.97	24.29	33	Pass
38	10	2615	16QAM	1	HIGH	22.13	27.97	5.84	13	1.97	24.10	33	Pass
38	15	2577.5	QPSK	75	LOW	21.64	28.48	6.84	13	1.97	23.61	33	Pass
38	15	2577.5	QPSK	38	LOW	21.62	28.47	6.85	13	1.97	23.59	33	Pass
38	15	2577.5	QPSK	38	MID	21.65	28.48	6.83	13	1.97	23.62	33	Pass
38	15	2577.5	QPSK	38	HIGH	21.64	28.5	6.86	13	1.97	23.61	33	Pass
38	15	2577.5	QPSK	1	LOW	22.42	27.09	4.67	13	1.97	24.39	33	Pass
38	15	2577.5	QPSK	1	MID	22.55	27.21	4.66	13	1.97	24.52	33	Pass
38	15	2577.5	QPSK	1	HIGH	22.45	26.91	4.46	13	1.97	24.42	33	Pass
38	15	2577.5	16QAM	75	LOW	20.67	27.99	7.32	13	1.97	22.64	33	Pass
38	15	2577.5	16QAM	38	LOW	20.66	28.01	7.35	13	1.97	22.63	33	Pass
38	15	2577.5	16QAM	38	MID	20.68	28.14	7.46	13	1.97	22.65	33	Pass
38	15	2577.5	16QAM	38	HIGH	20.67	28.12	7.45	13	1.97	22.64	33	Pass
38	15	2577.5	16QAM	1	LOW	21.86	27.01	5.15	13	1.97	23.83	33	Pass
38	15	2577.5	16QAM	1	MID	21.99	27.12	5.13	13	1.97	23.96	33	Pass
38	15	2577.5	16QAM	1	HIGH	21.89	26.84	4.95	13	1.97	23.86	33	Pass
38	15	2595	QPSK	75	LOW	21.68	28.53	6.85	13	1.97	23.65	33	Pass
38	15	2595	QPSK	38	LOW	21.67	28.53	6.86	13	1.97	23.64	33	Pass
38	15	2595	QPSK	38	MID	21.67	28.53	6.86	13	1.97	23.64	33	Pass
38	15	2595	QPSK	38	HIGH	21.68	28.53	6.85	13	1.97	23.65	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
38	15	2595	QPSK	1	LOW	22.44	27.1	4.66	13	1.97	24.41	33	Pass
38	15	2595	QPSK	1	MID	22.51	27.13	4.62	13	1.97	24.48	33	Pass
38	15	2595	QPSK	1	HIGH	22.46	26.91	4.45	13	1.97	24.43	33	Pass
38	15	2595	16QAM	75	LOW	20.67	28.15	7.48	13	1.97	22.64	33	Pass
38	15	2595	16QAM	38	LOW	20.67	28.06	7.39	13	1.97	22.64	33	Pass
38	15	2595	16QAM	38	MID	20.66	27.99	7.33	13	1.97	22.63	33	Pass
38	15	2595	16QAM	38	HIGH	20.7	28.11	7.41	13	1.97	22.67	33	Pass
38	15	2595	16QAM	1	LOW	21.88	27.02	5.14	13	1.97	23.85	33	Pass
38	15	2595	16QAM	1	MID	21.96	27.08	5.12	13	1.97	23.93	33	Pass
38	15	2595	16QAM	1	HIGH	21.91	26.86	4.95	13	1.97	23.88	33	Pass
38	15	2612.5	QPSK	75	LOW	21.66	28.56	6.90	13	1.97	23.63	33	Pass
38	15	2612.5	QPSK	38	LOW	21.65	28.52	6.87	13	1.97	23.62	33	Pass
38	15	2612.5	QPSK	38	MID	21.67	28.53	6.86	13	1.97	23.64	33	Pass
38	15	2612.5	QPSK	38	HIGH	21.67	28.52	6.85	13	1.97	23.64	33	Pass
38	15	2612.5	QPSK	1	LOW	22.45	27.11	4.66	13	1.97	24.42	33	Pass
38	15	2612.5	QPSK	1	MID	22.57	27.19	4.62	13	1.97	24.54	33	Pass
38	15	2612.5	QPSK	1	HIGH	22.47	26.92	4.45	13	1.97	24.44	33	Pass
38	15	2612.5	16QAM	75	LOW	20.68	28.02	7.34	13	1.97	22.65	33	Pass
38	15	2612.5	16QAM	38	LOW	20.66	27.97	7.31	13	1.97	22.63	33	Pass
38	15	2612.5	16QAM	38	MID	20.67	28.11	7.44	13	1.97	22.64	33	Pass
38	15	2612.5	16QAM	38	HIGH	20.69	28.18	7.49	13	1.97	22.66	33	Pass
38	15	2612.5	16QAM	1	LOW	21.92	27.06	5.14	13	1.97	23.89	33	Pass
38	15	2612.5	16QAM	1	MID	22.02	27.14	5.12	13	1.97	23.99	33	Pass
38	15	2612.5	16QAM	1	HIGH	21.88	26.83	4.95	13	1.97	23.85	33	Pass
38	20	2580	QPSK	100	LOW	21.8	28.55	6.75	13	1.97	23.77	33	Pass
38	20	2580	QPSK	50	LOW	21.84	28.41	6.57	13	1.97	23.81	33	Pass
38	20	2580	QPSK	50	MID	21.82	28.39	6.57	13	1.97	23.79	33	Pass
38	20	2580	QPSK	50	HIGH	21.74	28.17	6.43	13	1.97	23.71	33	Pass
38	20	2580	QPSK	1	LOW	22.33	27.61	5.28	13	1.97	24.30	33	Pass
38	20	2580	QPSK	1	MID	22.77	27.88	5.11	13	1.97	24.74	33	Pass
38	20	2580	QPSK	1	HIGH	22.39	27.29	4.90	13	1.97	24.36	33	Pass
38	20	2580	16QAM	100	LOW	20.85	28.36	7.51	13	1.97	22.82	33	Pass
38	20	2580	16QAM	50	LOW	20.95	28.36	7.41	13	1.97	22.92	33	Pass
38	20	2580	16QAM	50	MID	20.93	28.34	7.41	13	1.97	22.9	33	Pass
38	20	2580	16QAM	50	HIGH	20.82	28.19	7.37	13	1.97	22.79	33	Pass
38	20	2580	16QAM	1	LOW	21.92	27.51	5.59	13	1.97	23.89	33	Pass
38	20	2580	16QAM	1	MID	22.33	27.74	5.41	13	1.97	24.30	33	Pass
38	20	2580	16QAM	1	HIGH	21.9	27.19	5.29	13	1.97	23.87	33	Pass
38	20	2595	QPSK	100	LOW	21.79	28.52	6.73	13	1.97	23.76	33	Pass
38	20	2595	QPSK	50	LOW	21.83	28.4	6.57	13	1.97	23.80	33	Pass
38	20	2595	QPSK	50	MID	21.82	28.39	6.57	13	1.97	23.79	33	Pass

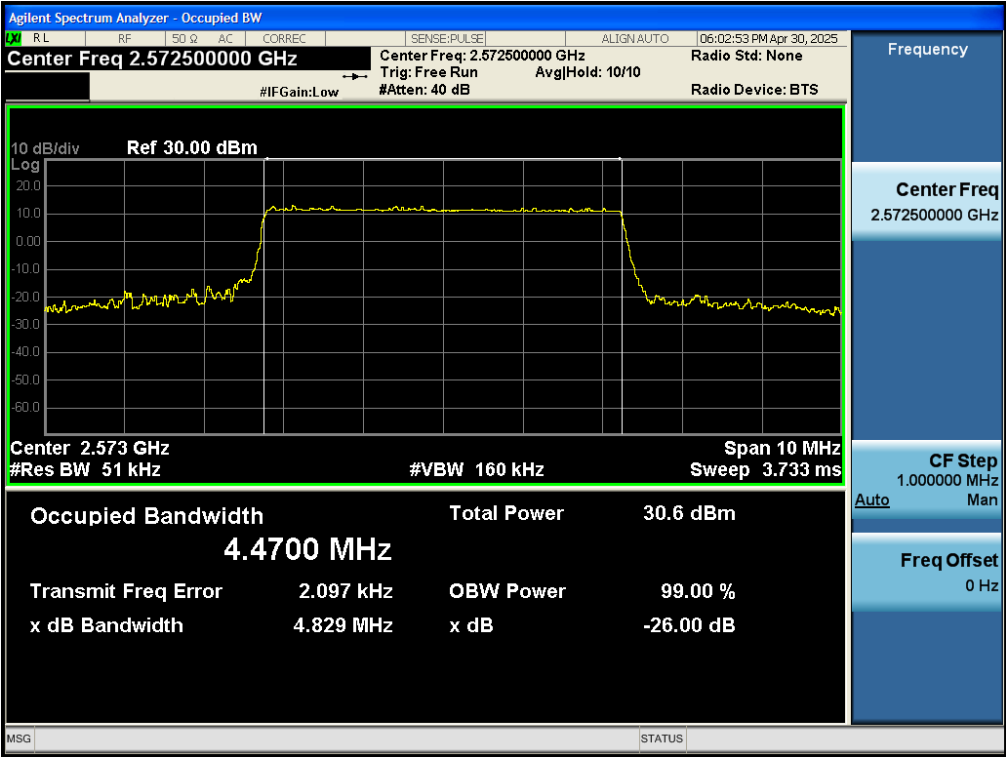
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
38	20	2595	QPSK	50	HIGH	21.73	28.16	6.43	13	1.97	23.7	33	Pass
38	20	2595	QPSK	1	LOW	22.33	27.61	5.28	13	1.97	24.30	33	Pass
38	20	2595	QPSK	1	MID	22.77	27.87	5.10	13	1.97	24.74	33	Pass
38	20	2595	QPSK	1	HIGH	22.38	27.29	4.91	13	1.97	24.35	33	Pass
38	20	2595	16QAM	100	LOW	20.86	28.27	7.41	13	1.97	22.83	33	Pass
38	20	2595	16QAM	50	LOW	20.89	28.31	7.42	13	1.97	22.86	33	Pass
38	20	2595	16QAM	50	MID	20.89	28.26	7.37	13	1.97	22.86	33	Pass
38	20	2595	16QAM	50	HIGH	20.78	28.18	7.40	13	1.97	22.75	33	Pass
38	20	2595	16QAM	1	LOW	21.9	27.49	5.59	13	1.97	23.87	33	Pass
38	20	2595	16QAM	1	MID	22.3	27.71	5.41	13	1.97	24.27	33	Pass
38	20	2595	16QAM	1	HIGH	21.92	27.21	5.29	13	1.97	23.89	33	Pass
38	20	2610	QPSK	100	LOW	21.79	28.52	6.73	13	1.97	23.76	33	Pass
38	20	2610	QPSK	50	LOW	21.84	28.43	6.59	13	1.97	23.81	33	Pass
38	20	2610	QPSK	50	MID	21.85	28.39	6.54	13	1.97	23.82	33	Pass
38	20	2610	QPSK	50	HIGH	21.73	28.17	6.44	13	1.97	23.7	33	Pass
38	20	2610	QPSK	1	LOW	22.32	27.61	5.29	13	1.97	24.29	33	Pass
38	20	2610	QPSK	1	MID	22.79	27.91	5.12	13	1.97	24.76	33	Pass
38	20	2610	QPSK	1	HIGH	22.37	27.28	4.91	13	1.97	24.34	33	Pass
38	20	2610	16QAM	100	LOW	20.86	28.32	7.46	13	1.97	22.83	33	Pass
38	20	2610	16QAM	50	LOW	20.93	28.36	7.43	13	1.97	22.9	33	Pass
38	20	2610	16QAM	50	MID	20.92	28.3	7.38	13	1.97	22.89	33	Pass
38	20	2610	16QAM	50	HIGH	20.78	28.18	7.40	13	1.97	22.75	33	Pass
38	20	2610	16QAM	1	LOW	21.92	27.5	5.58	13	1.97	23.89	33	Pass
38	20	2610	16QAM	1	MID	22.37	27.76	5.39	13	1.97	24.34	33	Pass
38	20	2610	16QAM	1	HIGH	21.9	27.2	5.30	13	1.97	23.87	33	Pass

Appendix B: Occupied bandwidth

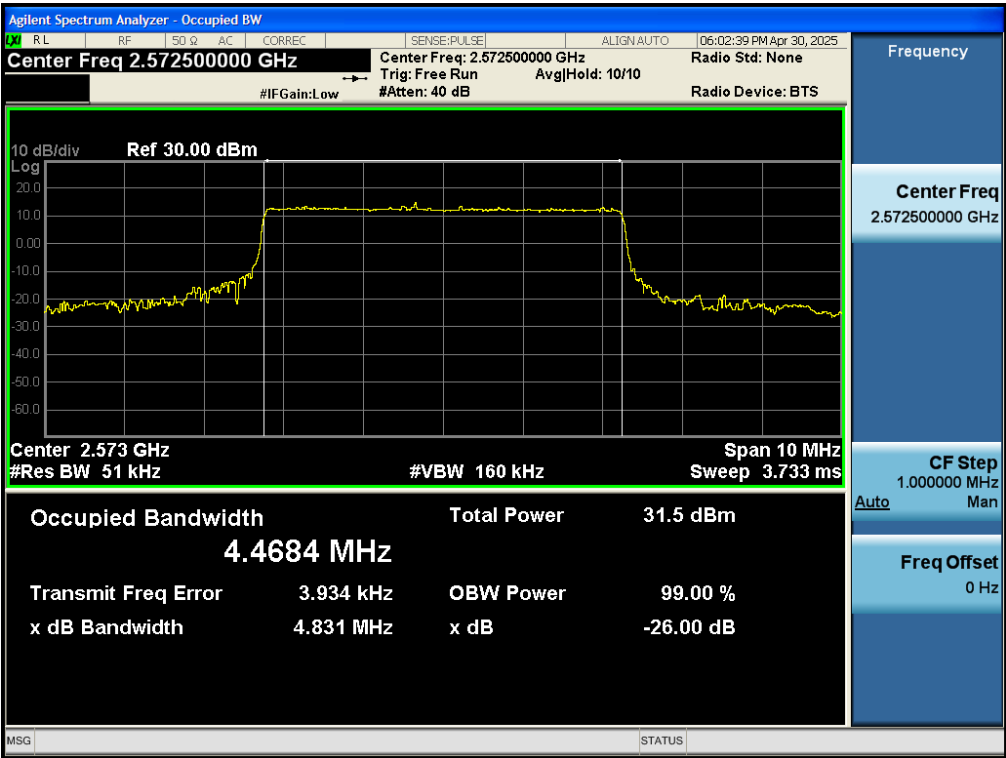
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
38	5	2572.5	QPSK	25	LOW	4.468	4.831	No limit
38	5	2572.5	16QAM	25	LOW	4.47	4.829	No limit
38	5	2595	QPSK	25	LOW	4.463	4.844	No limit
38	5	2595	16QAM	25	LOW	4.468	4.837	No limit
38	5	2617.5	QPSK	25	LOW	4.487	4.758	No limit
38	5	2617.5	16QAM	25	LOW	4.468	4.849	No limit
38	10	2575	QPSK	50	LOW	8.955	9.627	No limit
38	10	2575	16QAM	50	LOW	8.947	9.478	No limit
38	10	2595	QPSK	50	LOW	8.957	9.65	No limit
38	10	2595	16QAM	50	LOW	8.948	10.388	No limit
38	10	2615	QPSK	50	LOW	8.958	9.745	No limit
38	10	2615	16QAM	50	LOW	8.947	9.54	No limit
38	15	2577.5	QPSK	75	LOW	13.422	14.269	No limit
38	15	2577.5	16QAM	75	LOW	13.436	14.815	No limit
38	15	2595	QPSK	75	LOW	13.431	14.479	No limit
38	15	2595	16QAM	75	LOW	13.427	15.168	No limit
38	15	2612.5	QPSK	75	LOW	13.426	14.815	No limit
38	15	2612.5	16QAM	75	LOW	13.43	14.507	No limit
38	20	2580	QPSK	100	LOW	17.895	19.275	No limit
38	20	2580	16QAM	100	LOW	17.905	19.313	No limit
38	20	2595	QPSK	100	LOW	17.872	19.021	No limit
38	20	2595	16QAM	100	LOW	17.926	19.587	No limit
38	20	2610	QPSK	100	LOW	17.873	19.082	No limit
38	20	2610	16QAM	100	LOW	17.881	18.973	No limit

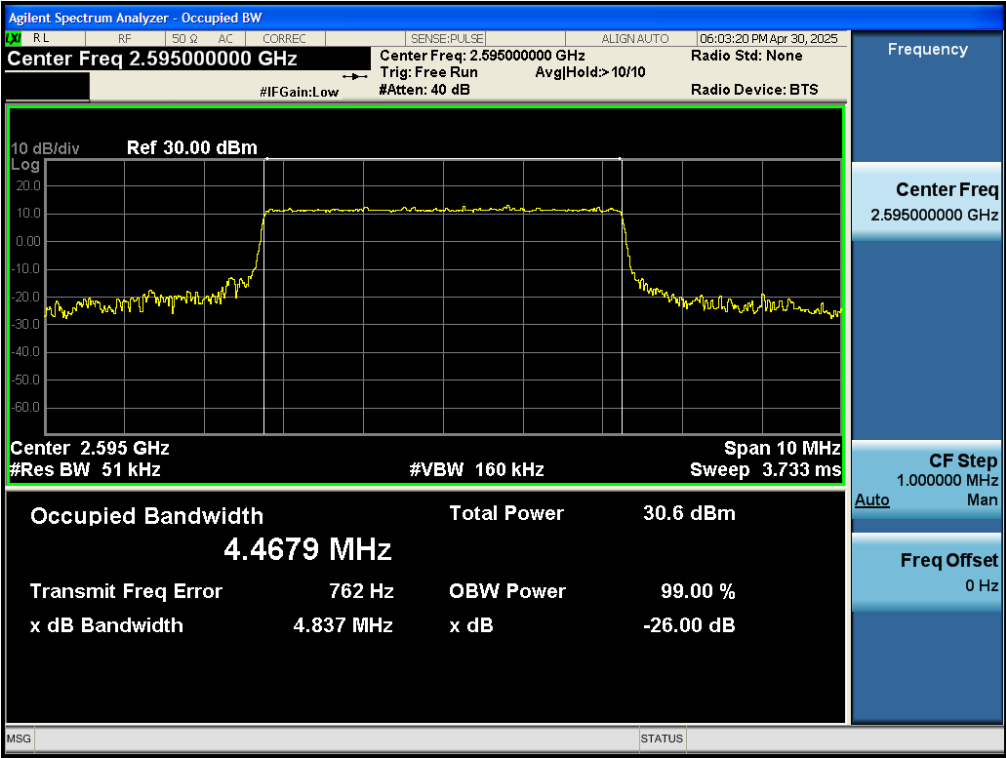
Test Graphs



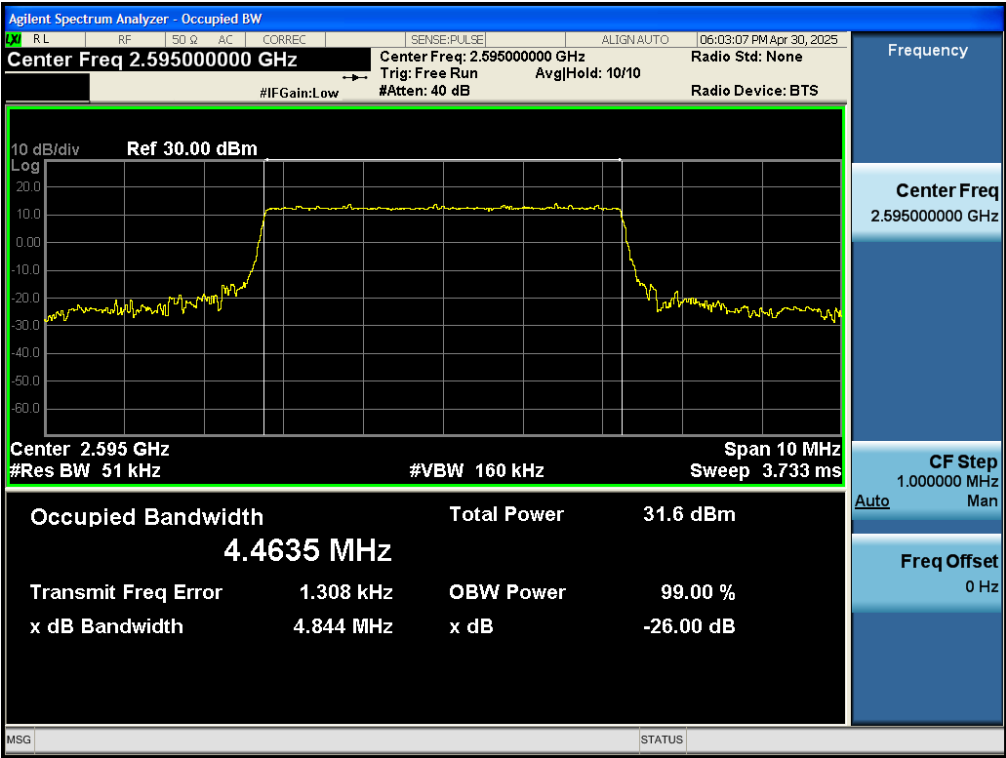
Test_Graph_band38_2572.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



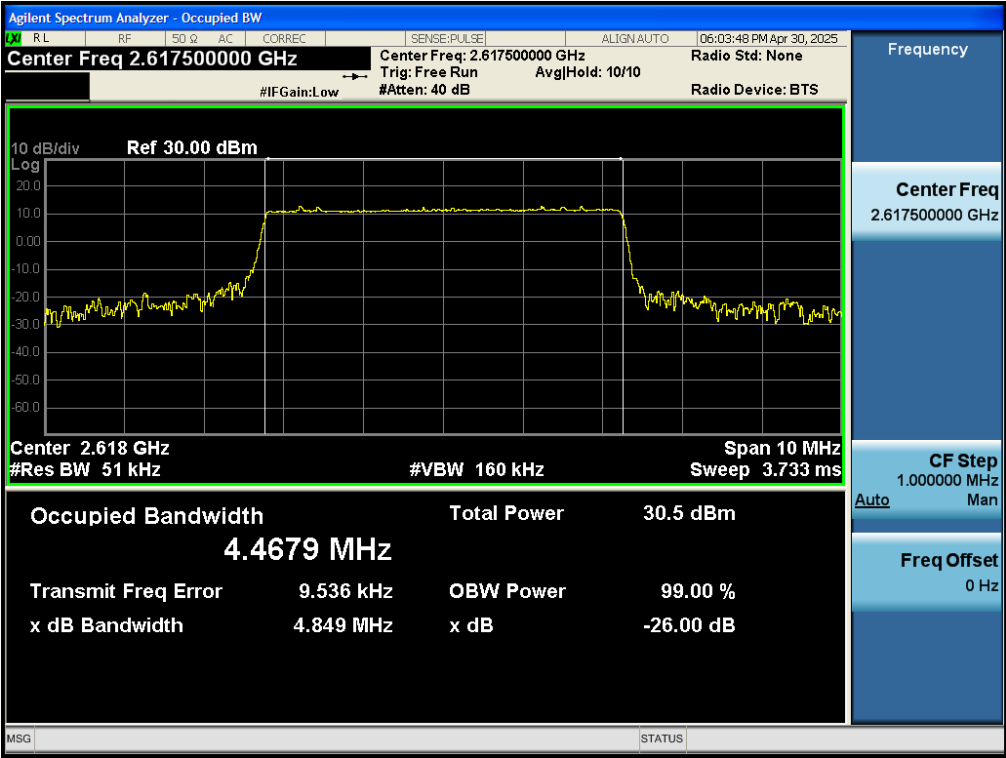
Test_Graph_band38_2572.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



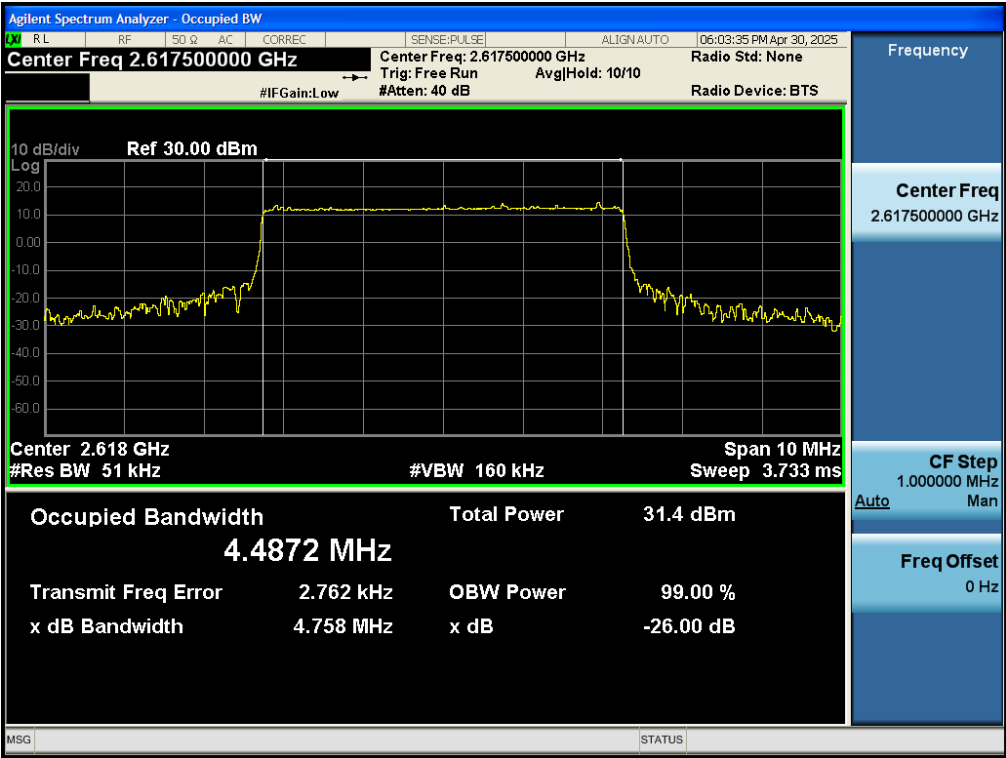
Test_Graph_band38_2595MHz_5M_16QAM_25RB#LOW_OBW&EBW



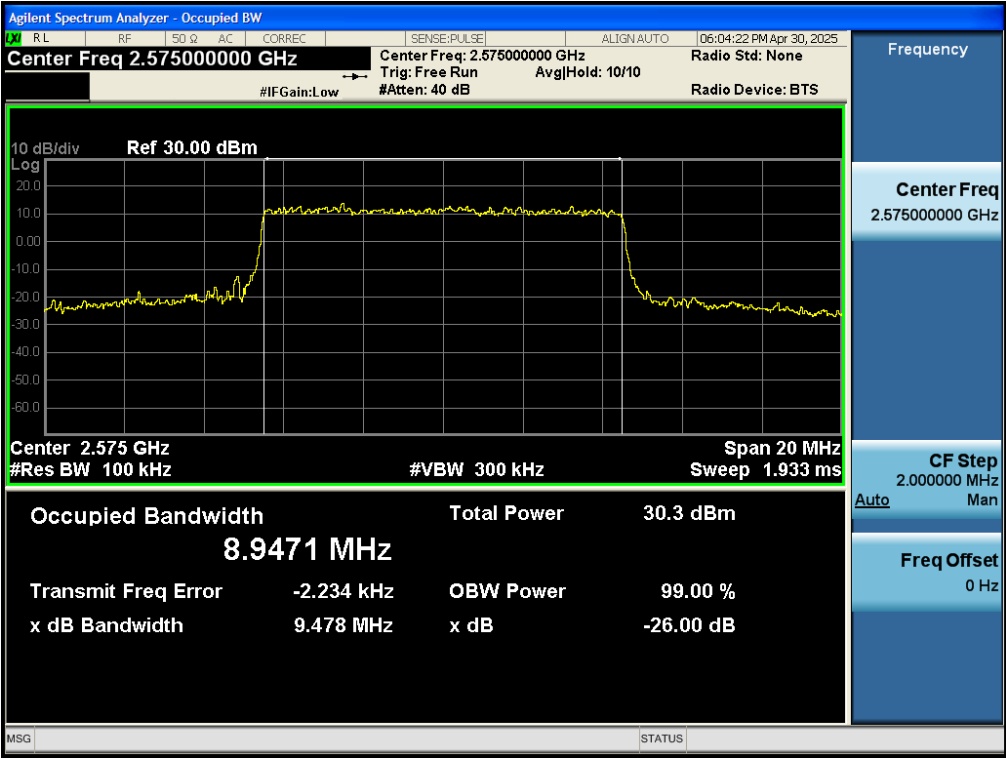
Test_Graph_band38_2595MHz_5M_QPSK_25RB#LOW_OBW&EBW



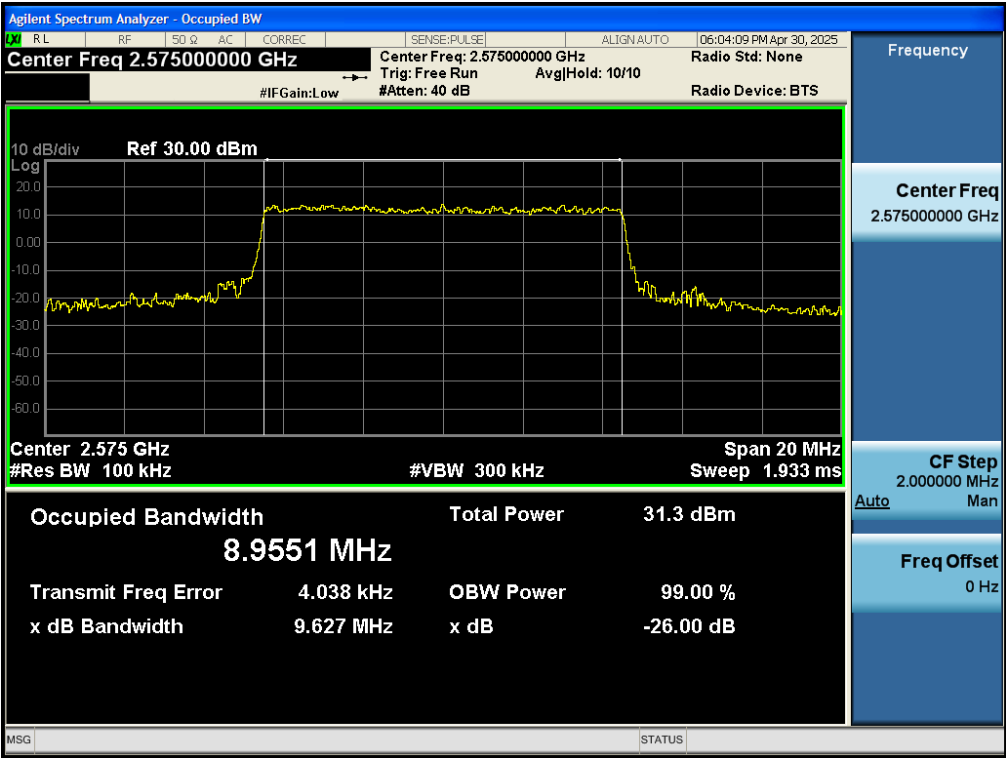
Test_Graph_band38_2617.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



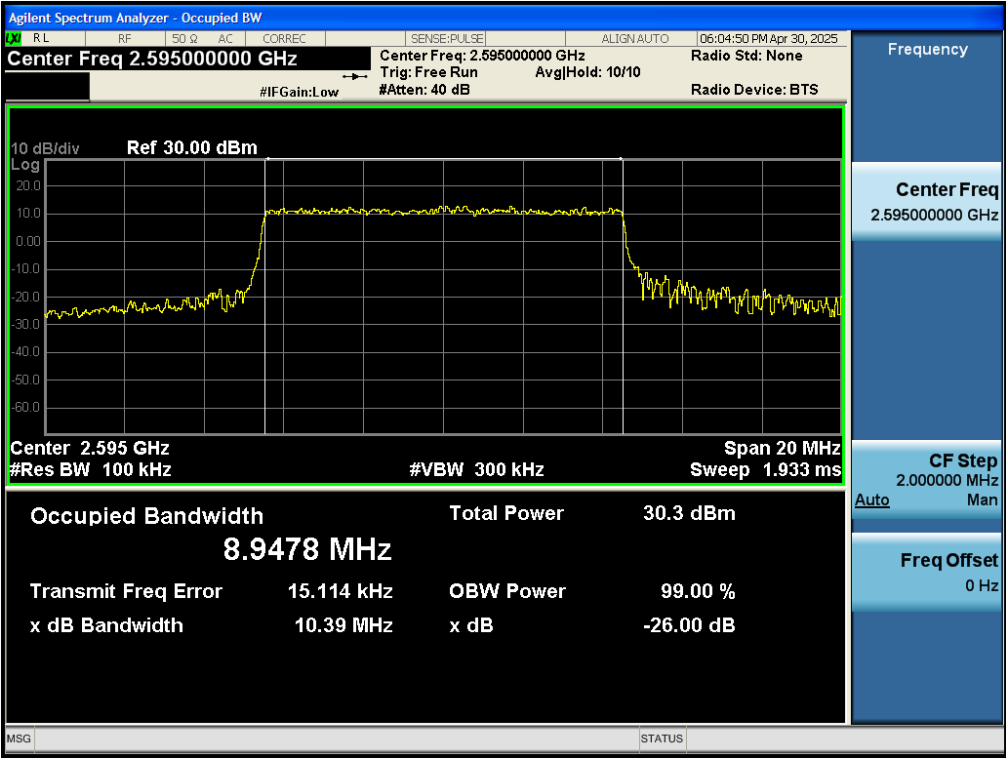
Test_Graph_band38_2617.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



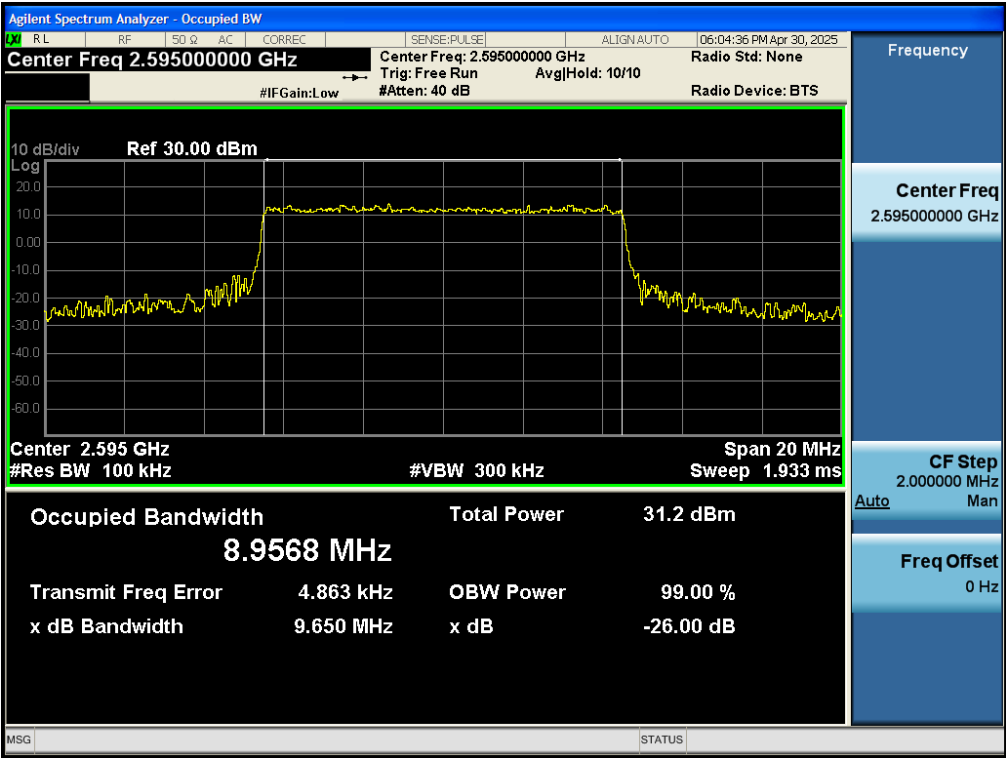
Test_Graph_band38_2575MHz_10M_16QAM_50RB#LOW_OBW&EBW



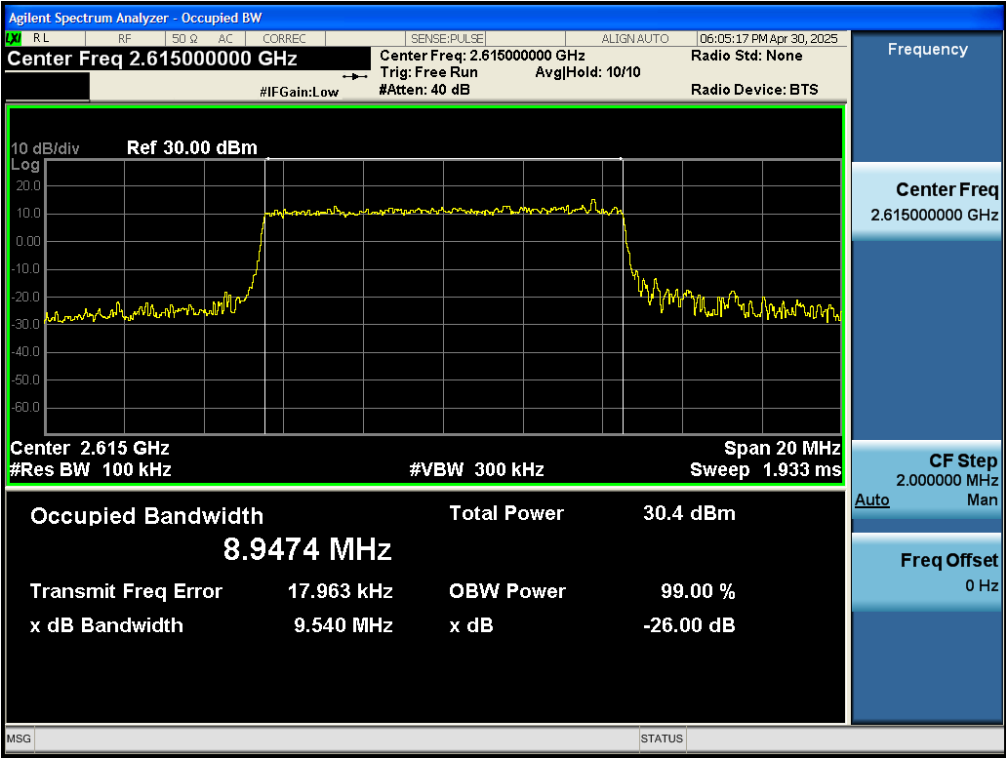
Test_Graph_band38_2575MHz_10M_QPSK_50RB#LOW_OBW&EBW



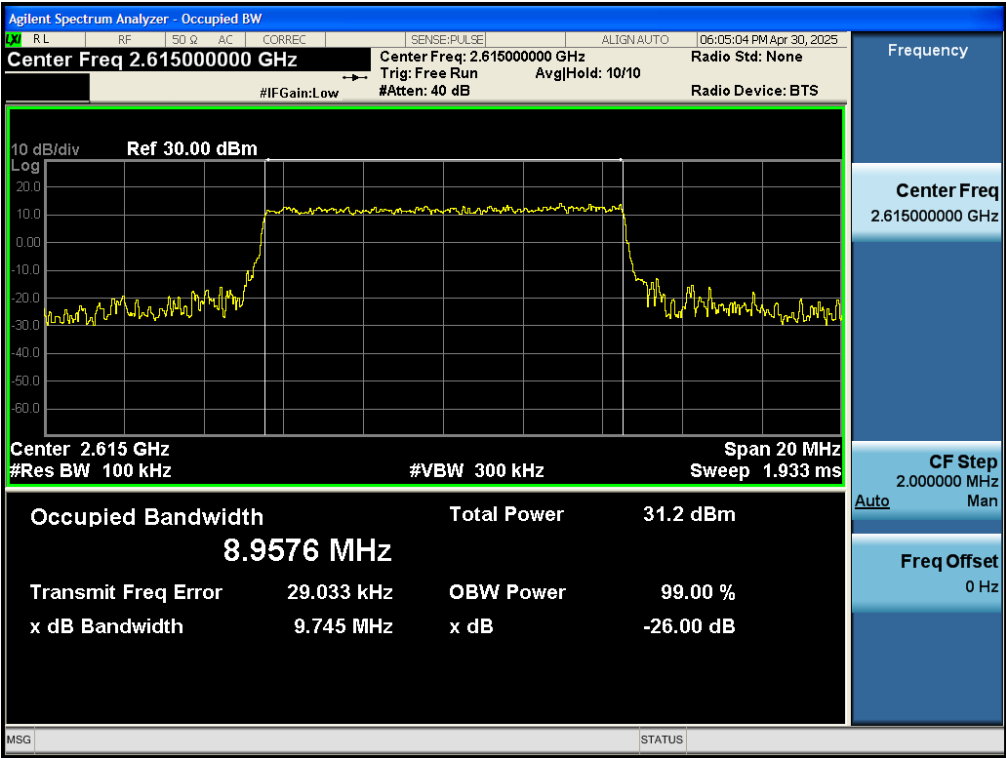
Test_Graph_band38_2595MHz_10M_16QAM_50RB#LOW_OBW&EBW



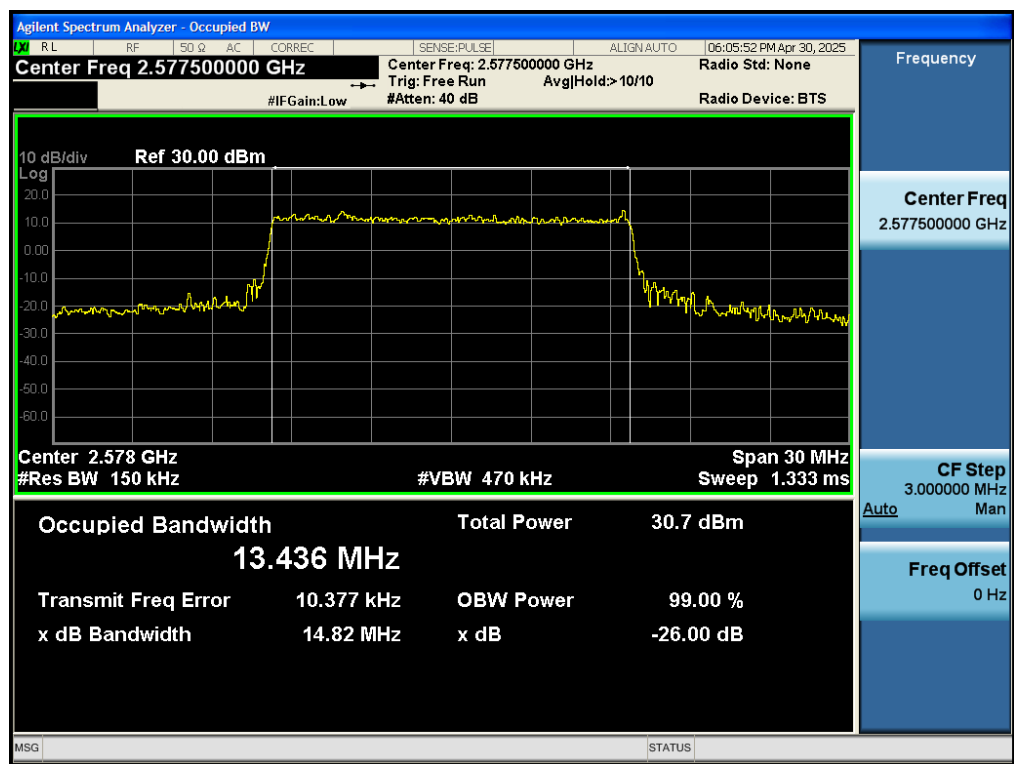
Test_Graph_band38_2595MHz_10M_QPSK_50RB#LOW_OBW&EBW



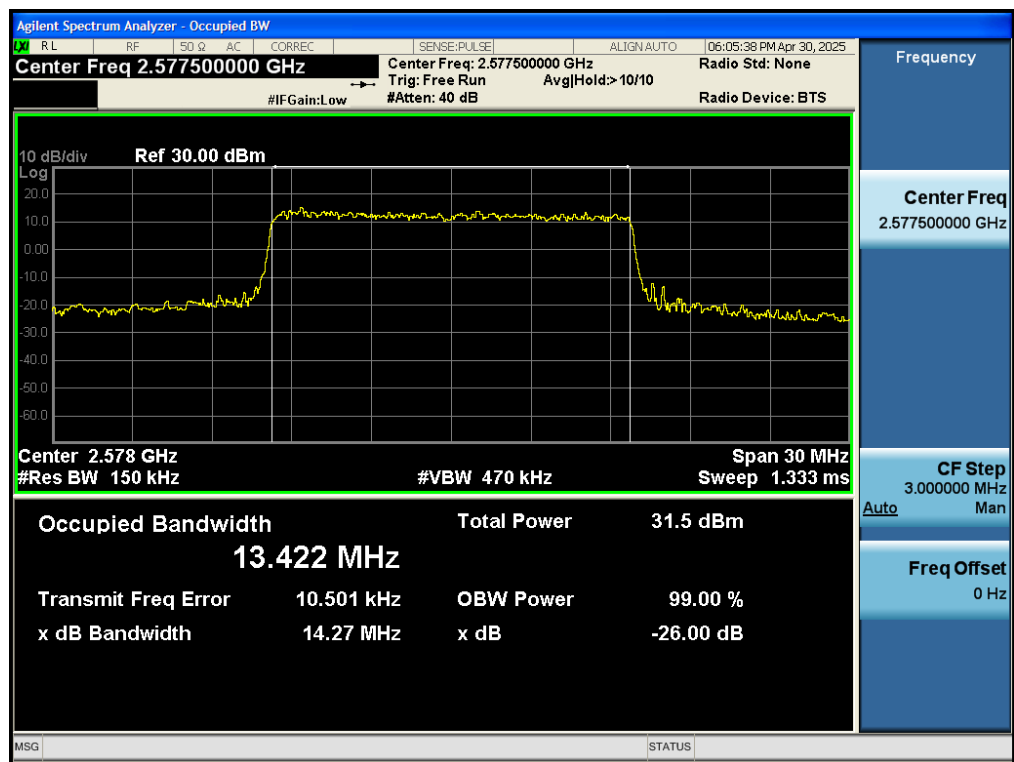
Test_Graph_band38_2615MHz_10M_16QAM_50RB#LOW_OBW&EBW



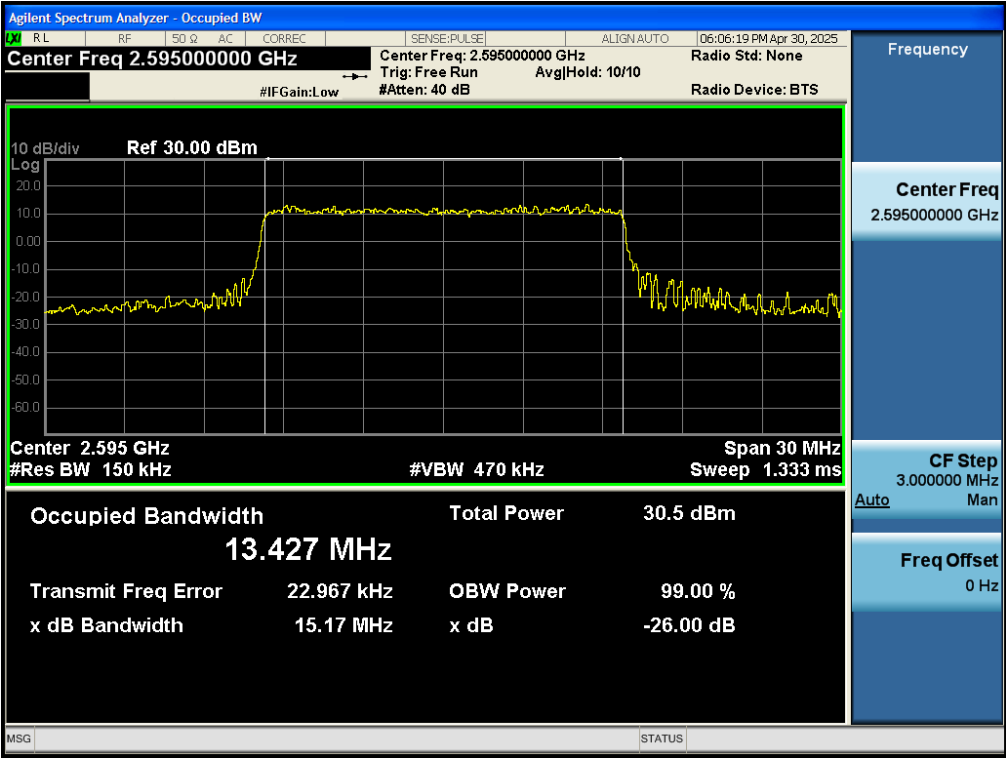
Test_Graph_band38_2615MHz_10M_QPSK_50RB#LOW_OBW&EBW



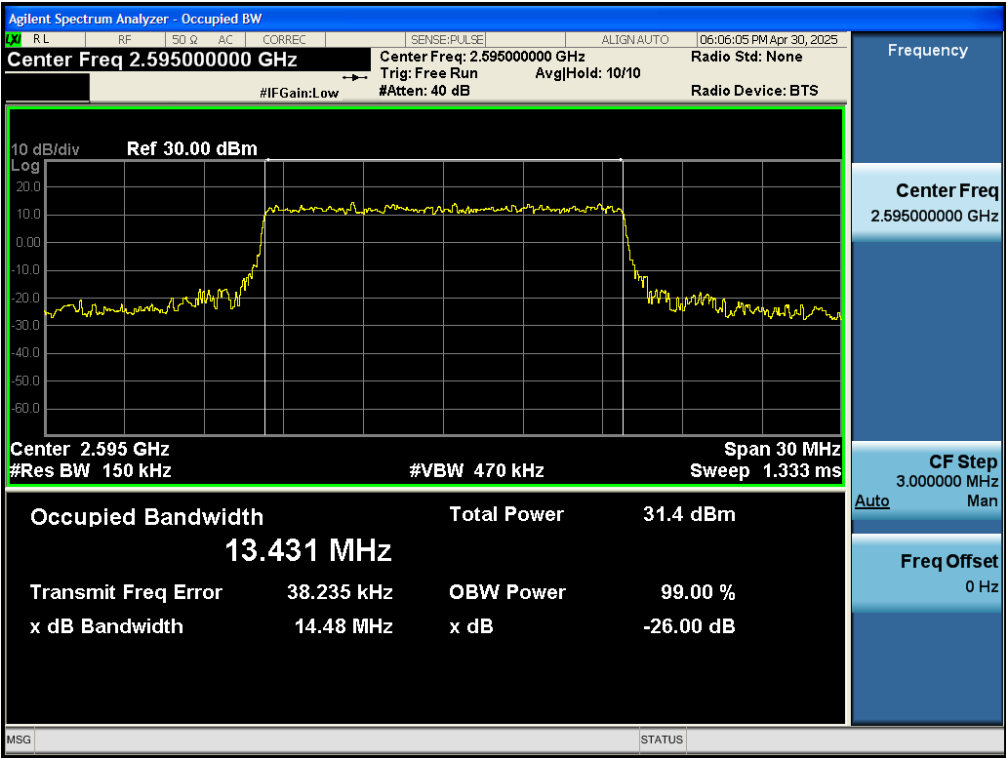
Test_Graph_band38_2577.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



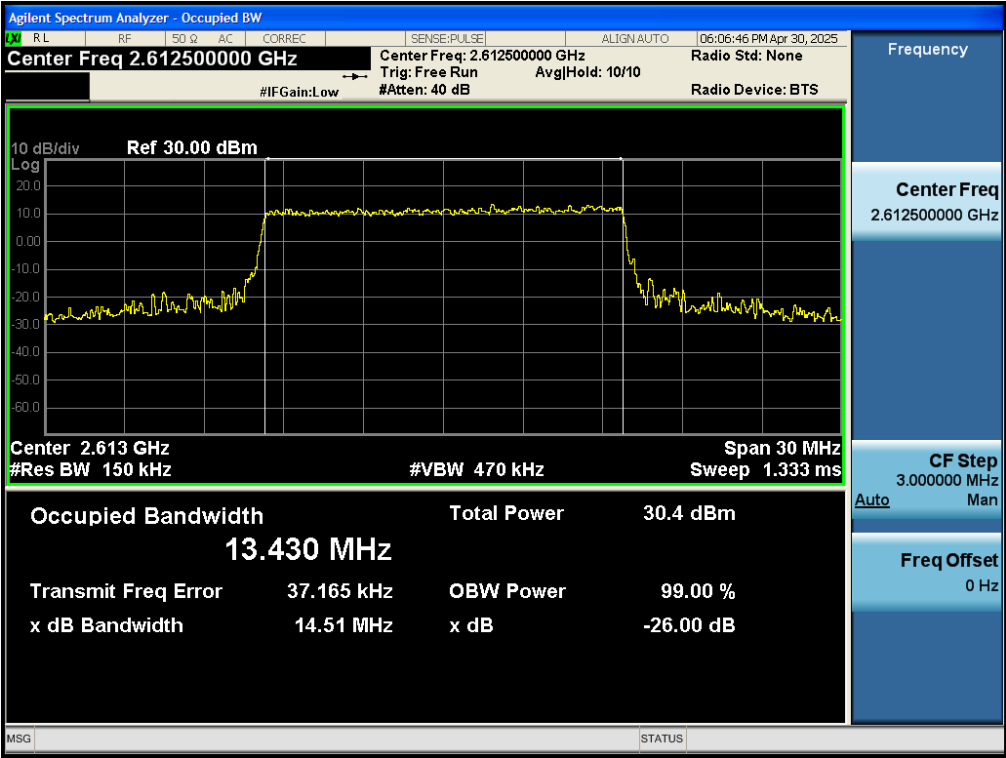
Test_Graph_band38_2577.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



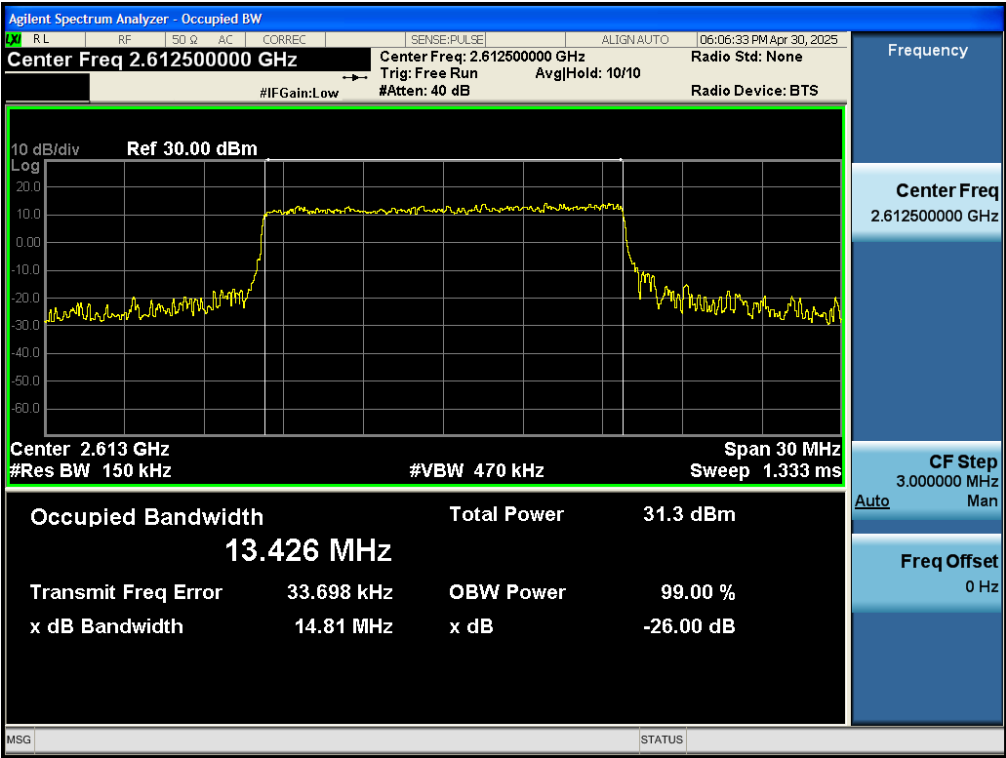
Test_Graph_band38_2595MHz_15M_16QAM_75RB#LOW_OBW&EBW



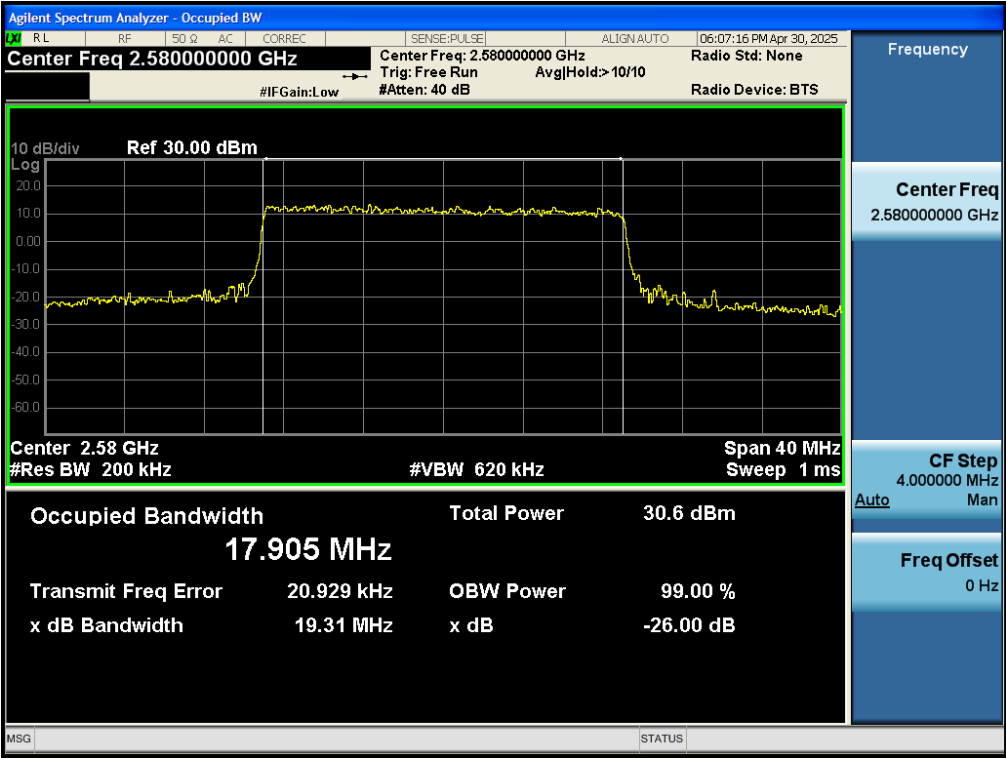
Test_Graph_band38_2595MHz_15M_QPSK_75RB#LOW_OBW&EBW



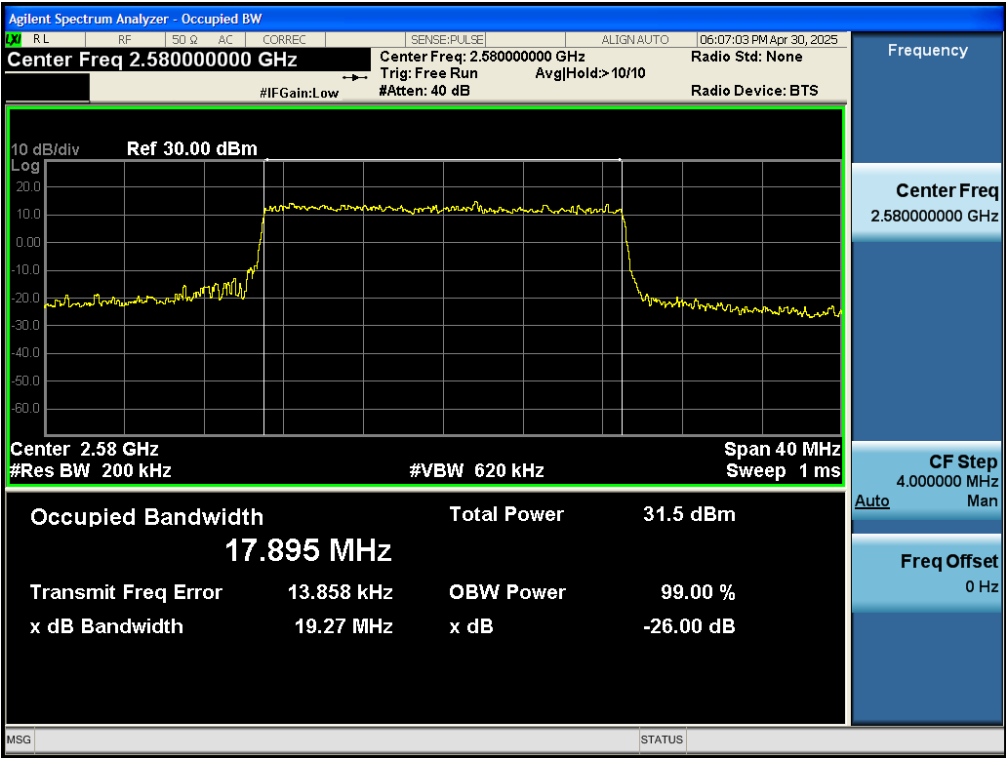
Test_Graph_band38_2612.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



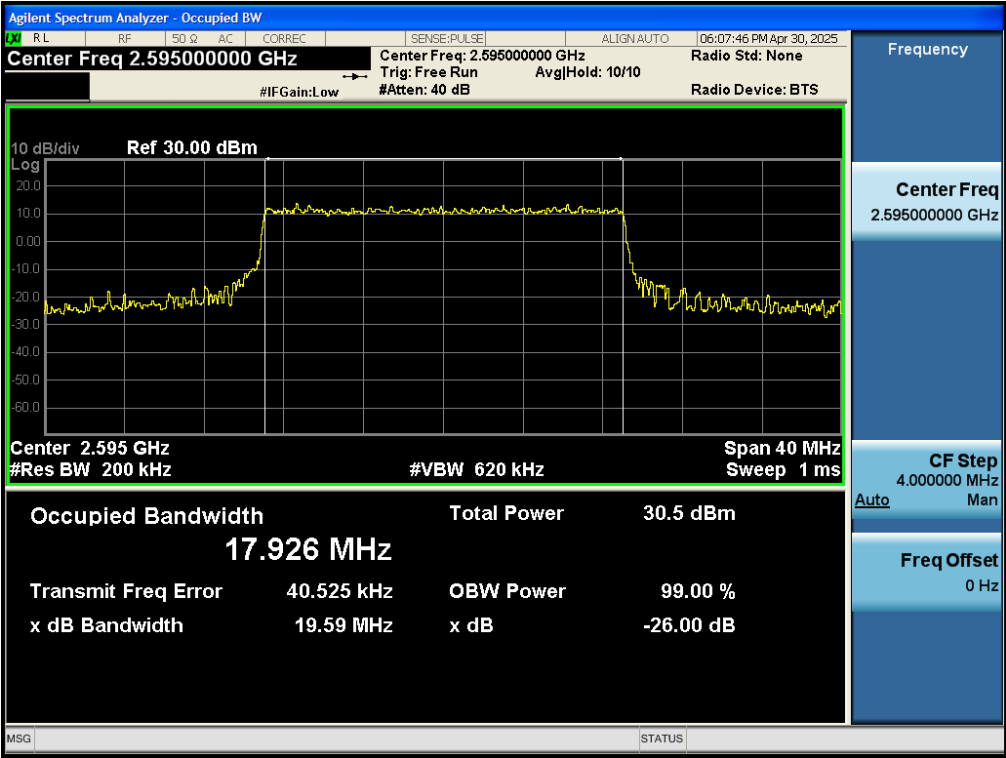
Test_Graph_band38_2612.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



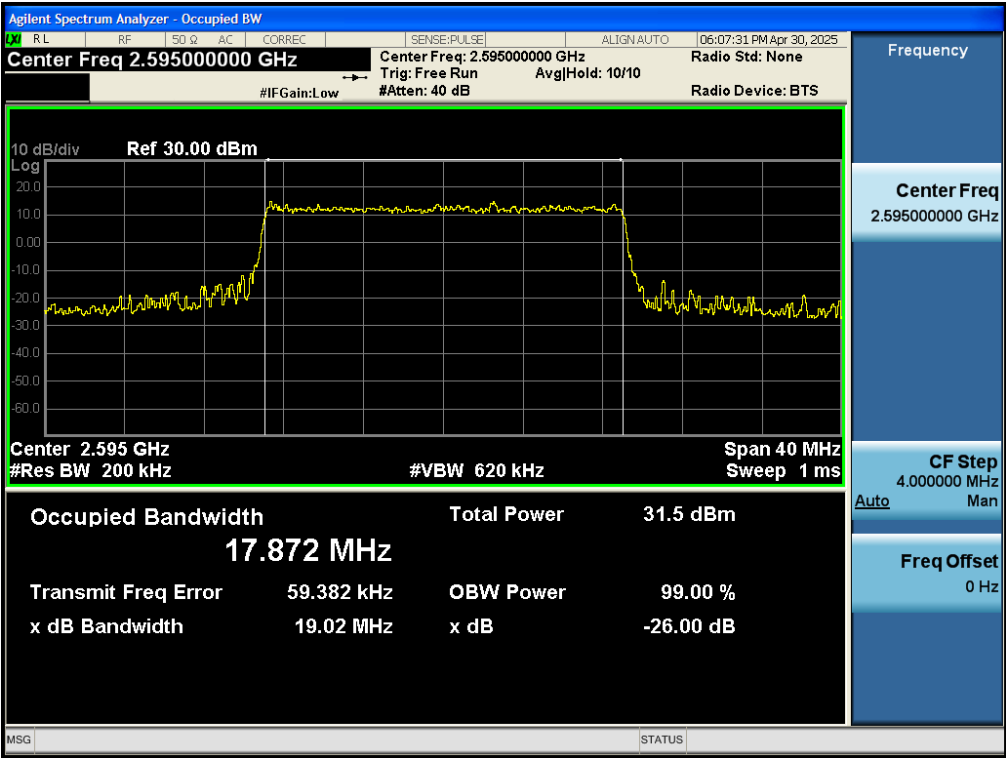
Test_Graph_band38_2580MHz_20M_16QAM_100RB#LOW_OBW&EBW



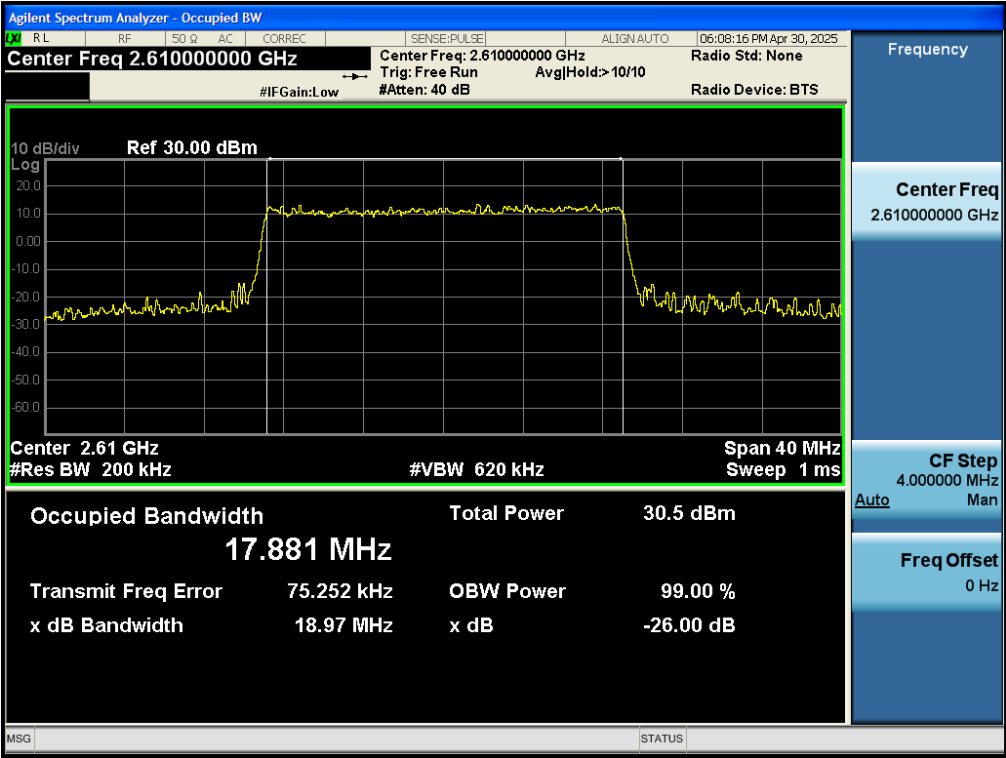
Test_Graph_band38_2580MHz_20M_QPSK_100RB#LOW_OBW&EBW



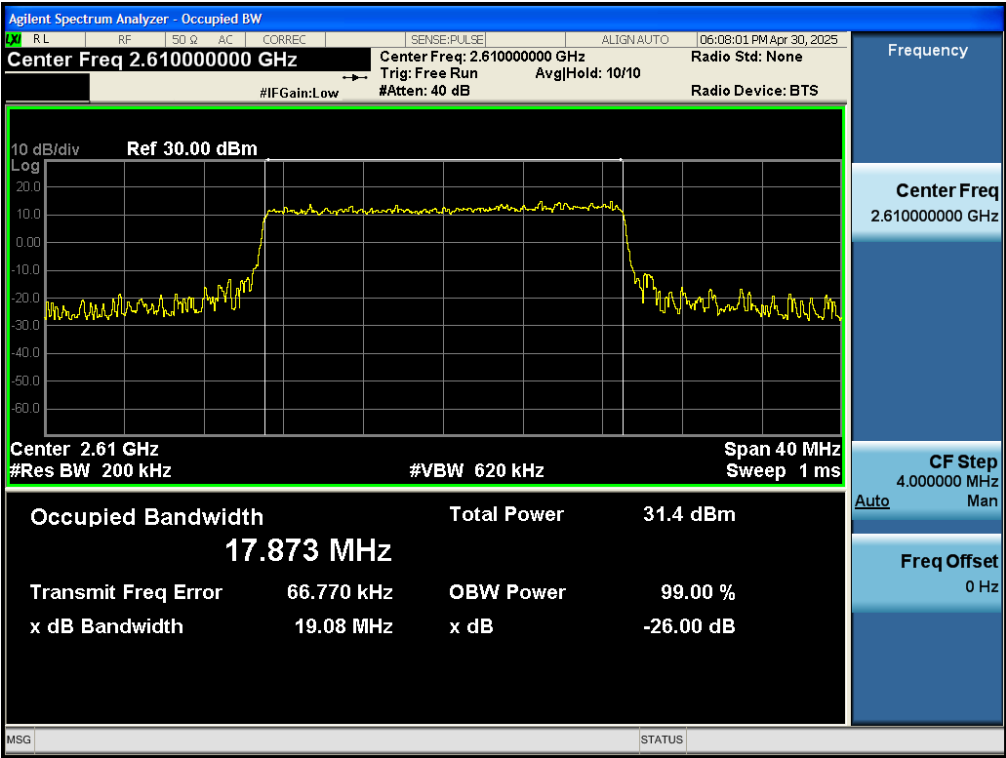
Test_Graph_band38_2595MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band38_2595MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band38_2610MHz_20M_16QAM_100RB#LOW_OBW&EBW



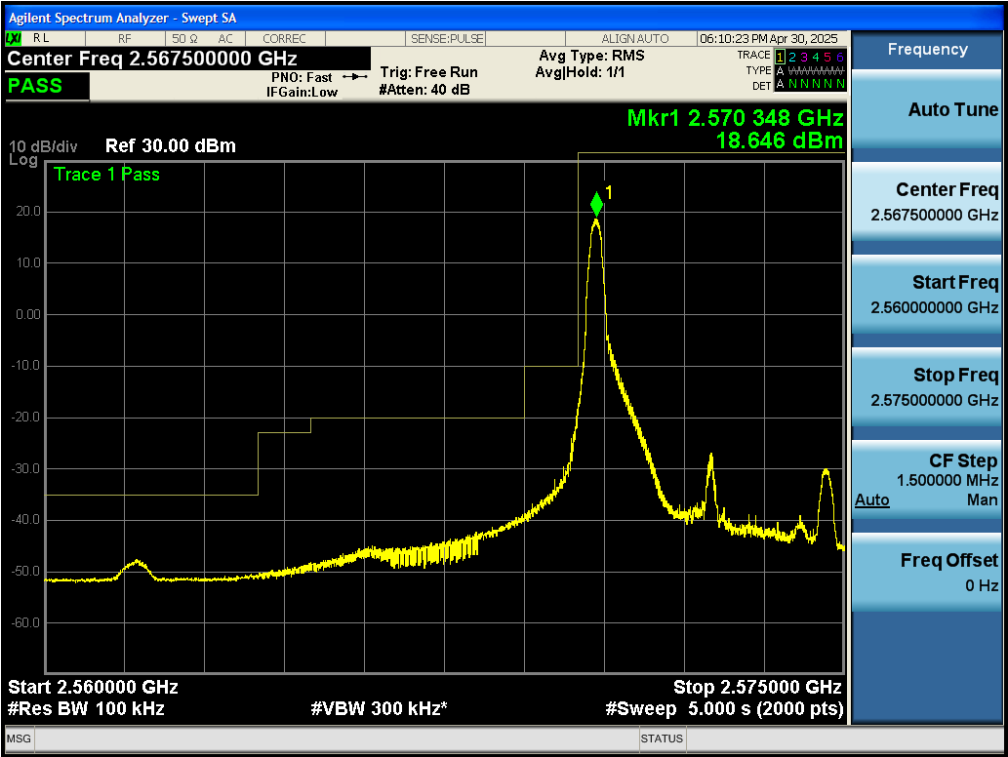
Test_Graph_band38_2610MHz_20M_QPSK_100RB#LOW_OBW&EBW

Appendix C: Band edge emissions

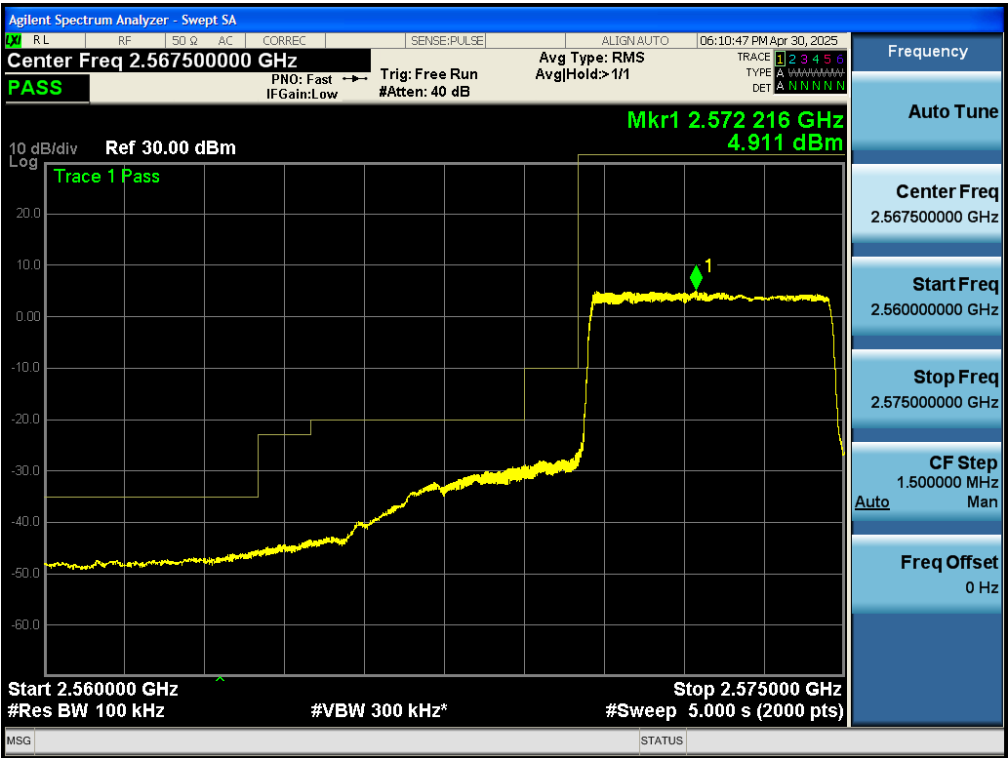
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
38	5	2572.5	QPSK	1	LOW	Pass
38	5	2572.5	QPSK	25	LOW	Pass
38	5	2572.5	16QAM	1	LOW	Pass
38	5	2572.5	16QAM	25	LOW	Pass
38	5	2617.5	QPSK	1	HIGH	Pass
38	5	2617.5	QPSK	25	LOW	Pass
38	5	2617.5	16QAM	1	HIGH	Pass
38	5	2617.5	16QAM	25	LOW	Pass
38	10	2575	QPSK	1	LOW	Pass
38	10	2575	QPSK	50	LOW	Pass
38	10	2575	16QAM	1	LOW	Pass
38	10	2575	16QAM	50	LOW	Pass
38	10	2615	QPSK	1	HIGH	Pass
38	10	2615	QPSK	50	LOW	Pass
38	10	2615	16QAM	1	HIGH	Pass
38	10	2615	16QAM	50	LOW	Pass
38	15	2577.5	QPSK	1	LOW	Pass
38	15	2577.5	QPSK	75	LOW	Pass
38	15	2577.5	16QAM	1	LOW	Pass
38	15	2577.5	16QAM	75	LOW	Pass
38	15	2612.5	QPSK	1	HIGH	Pass
38	15	2612.5	QPSK	75	LOW	Pass
38	15	2612.5	16QAM	1	HIGH	Pass
38	15	2612.5	16QAM	75	LOW	Pass
38	20	2580	QPSK	1	LOW	Pass
38	20	2580	QPSK	100	LOW	Pass
38	20	2580	16QAM	1	LOW	Pass
38	20	2580	16QAM	100	LOW	Pass
38	20	2610	QPSK	1	HIGH	Pass
38	20	2610	QPSK	100	LOW	Pass
38	20	2610	16QAM	1	HIGH	Pass
38	20	2610	16QAM	100	LOW	Pass

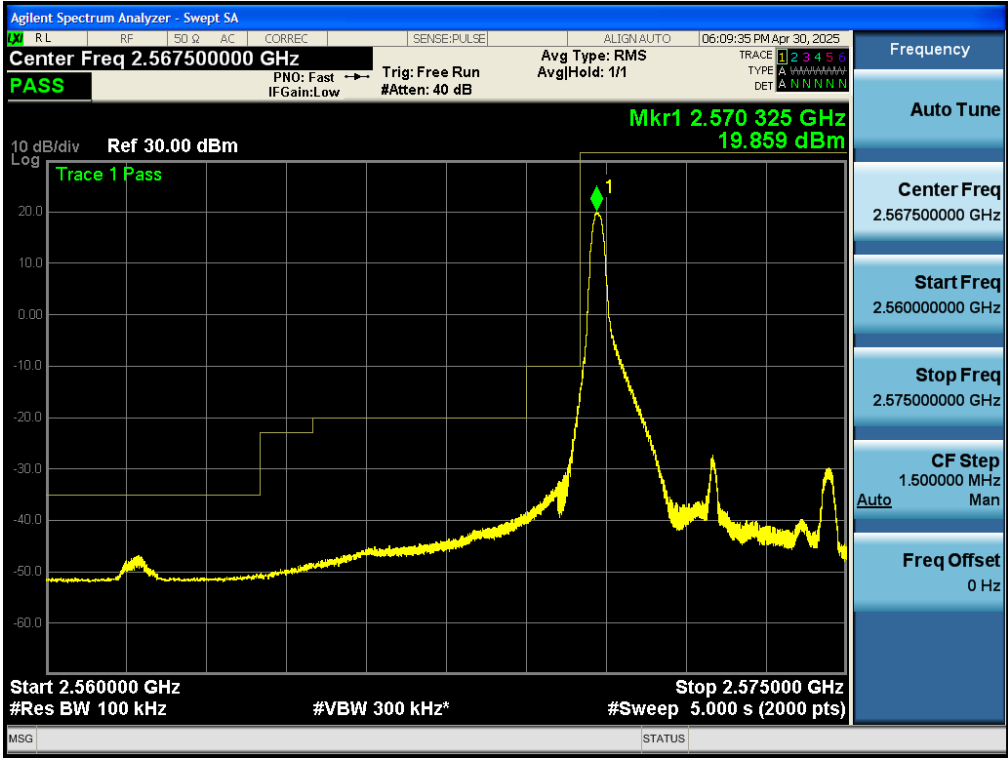
Test Graphs



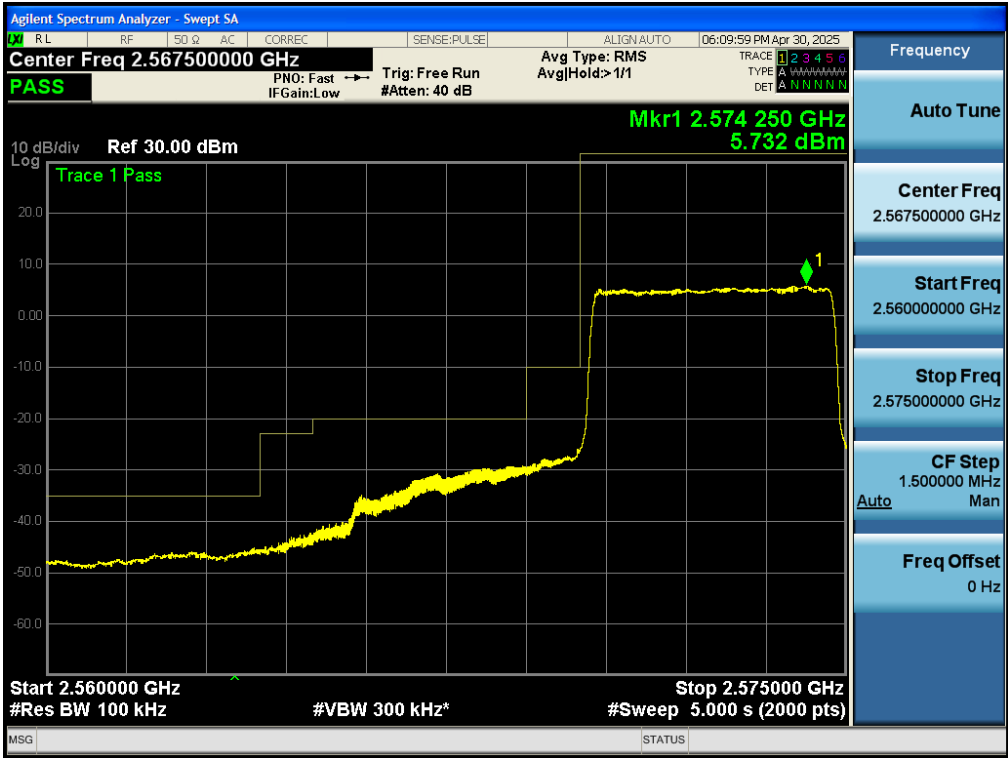
Test_Graph_band38_2572.5MHz_5M_16QAM_1RB#LOW_Band edge



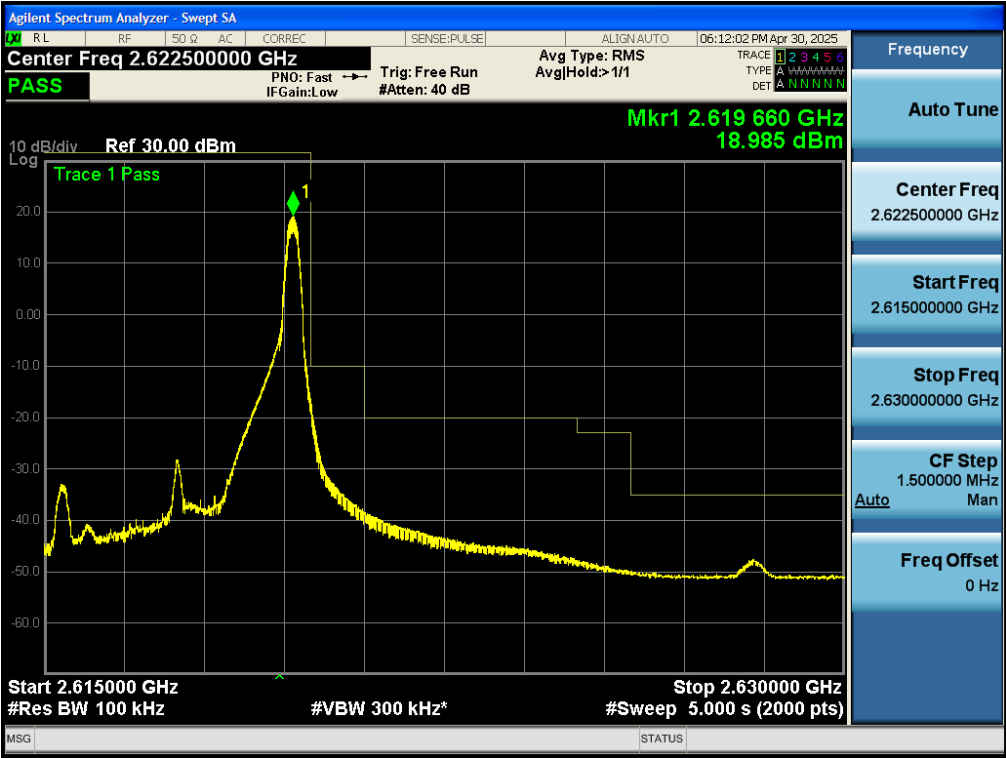
Test_Graph_band38_2572.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band38_2572.5MHz_5M_QPSK_1RB#LOW_Band edge



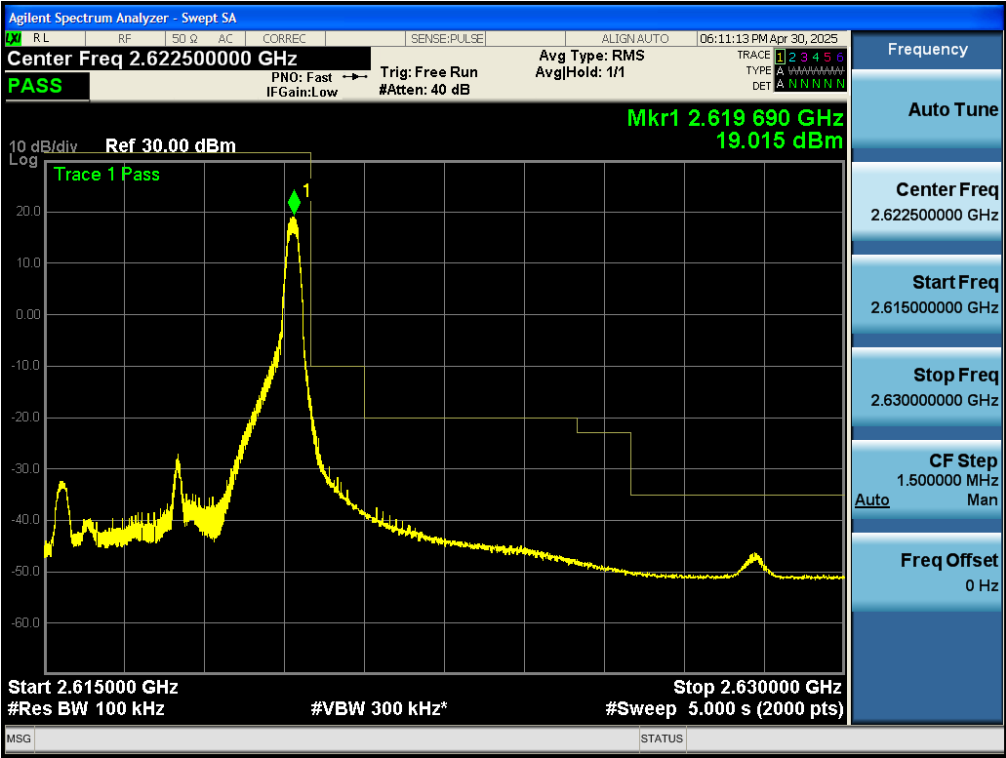
Test_Graph_band38_2572.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band38_2617.5MHz_5M_16QAM_1RB#HIGH_Band edge



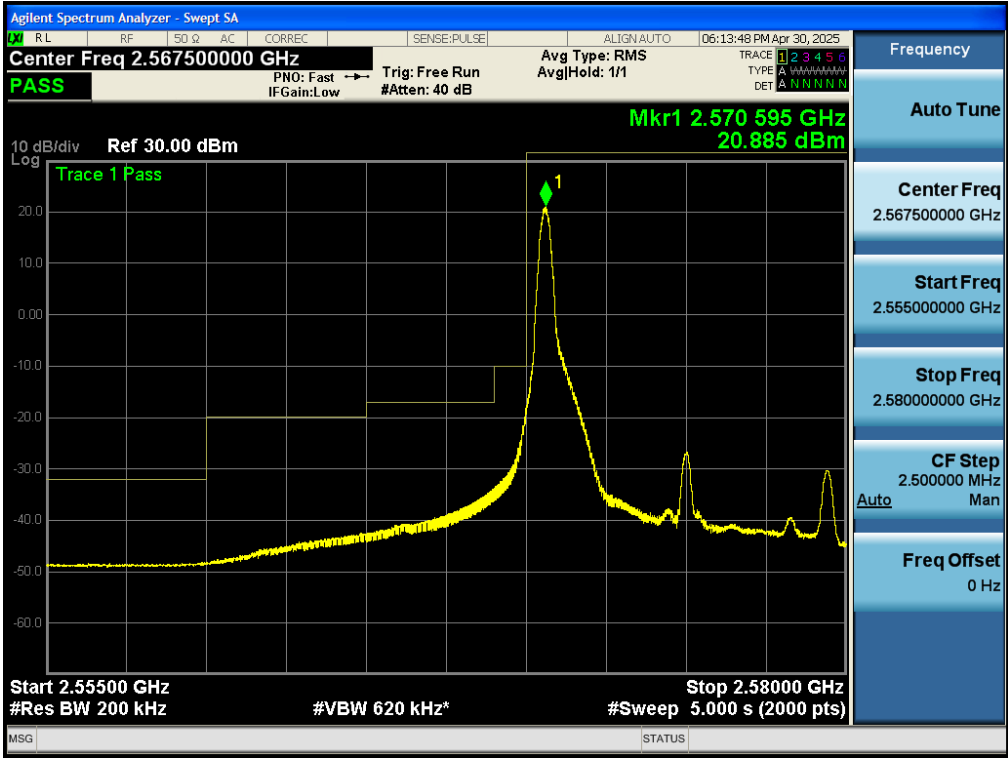
Test_Graph_band38_2617.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band38_2617.5MHz_5M_QPSK_1RB#HIGH_Band edge



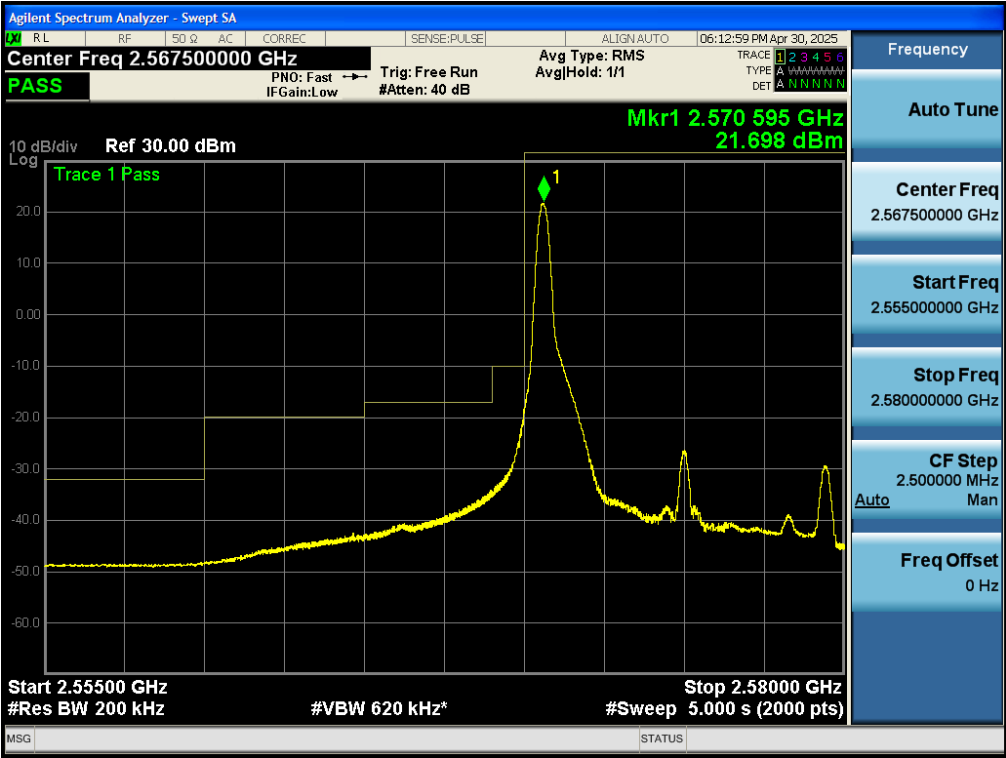
Test_Graph_band38_2617.5MHz_5M_QPSK_25RB#LOW_Band edge



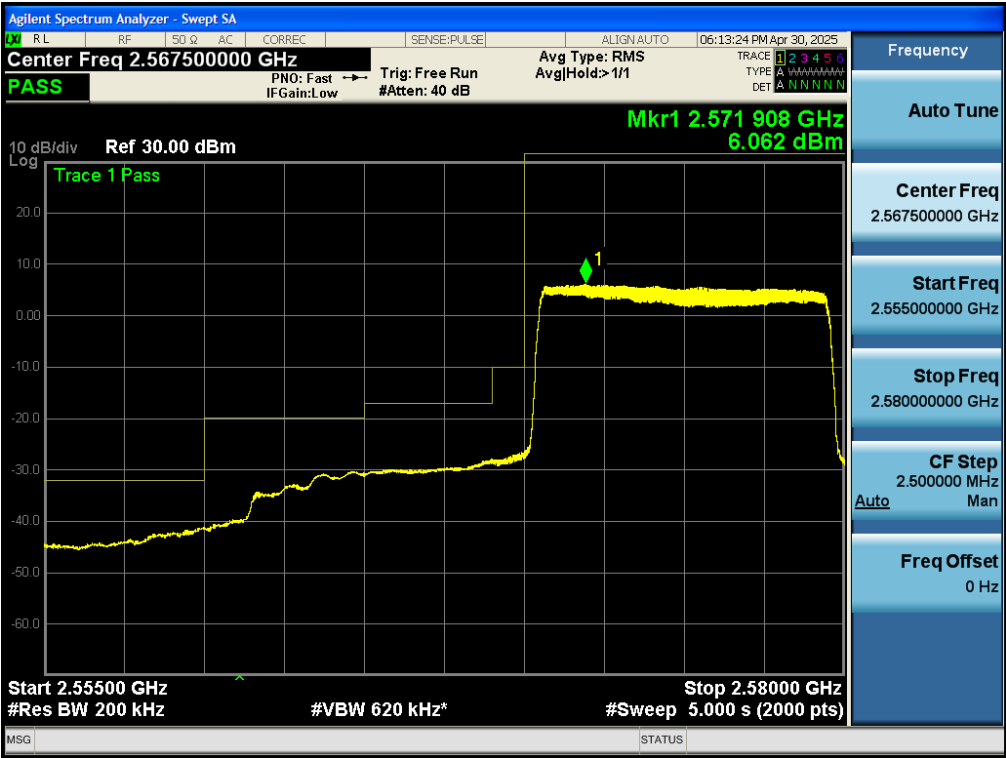
Test_Graph_band38_2575MHz_10M_16QAM_1RB#LOW_Band edge



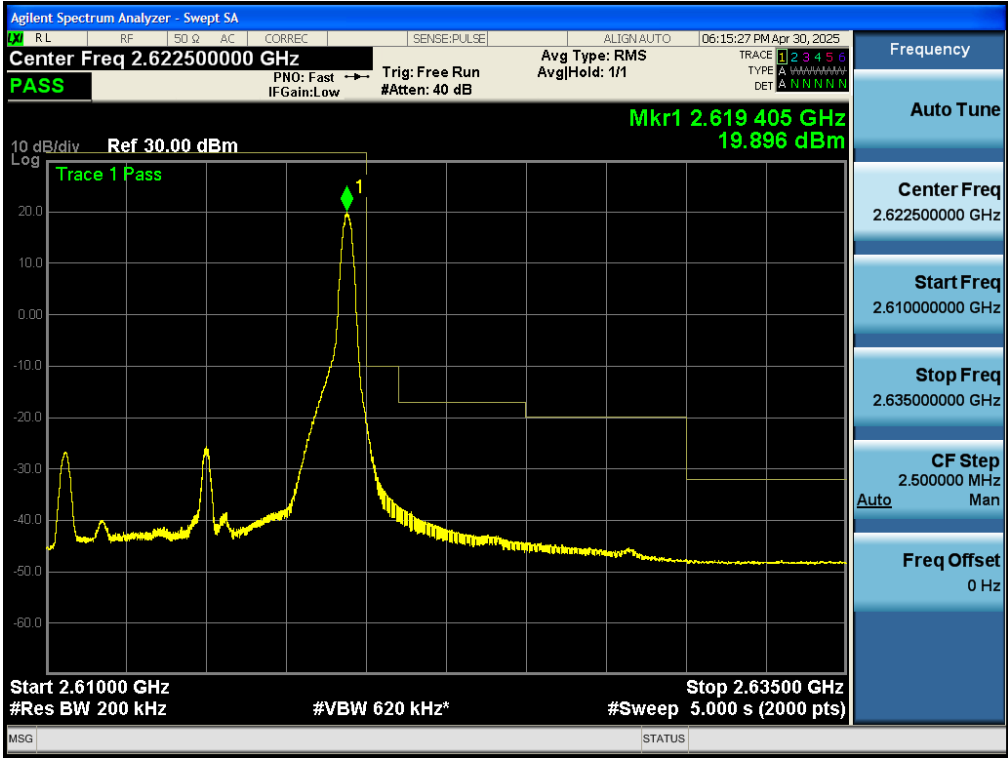
Test_Graph_band38_2575MHz_10M_16QAM_50RB#LOW_Band edge



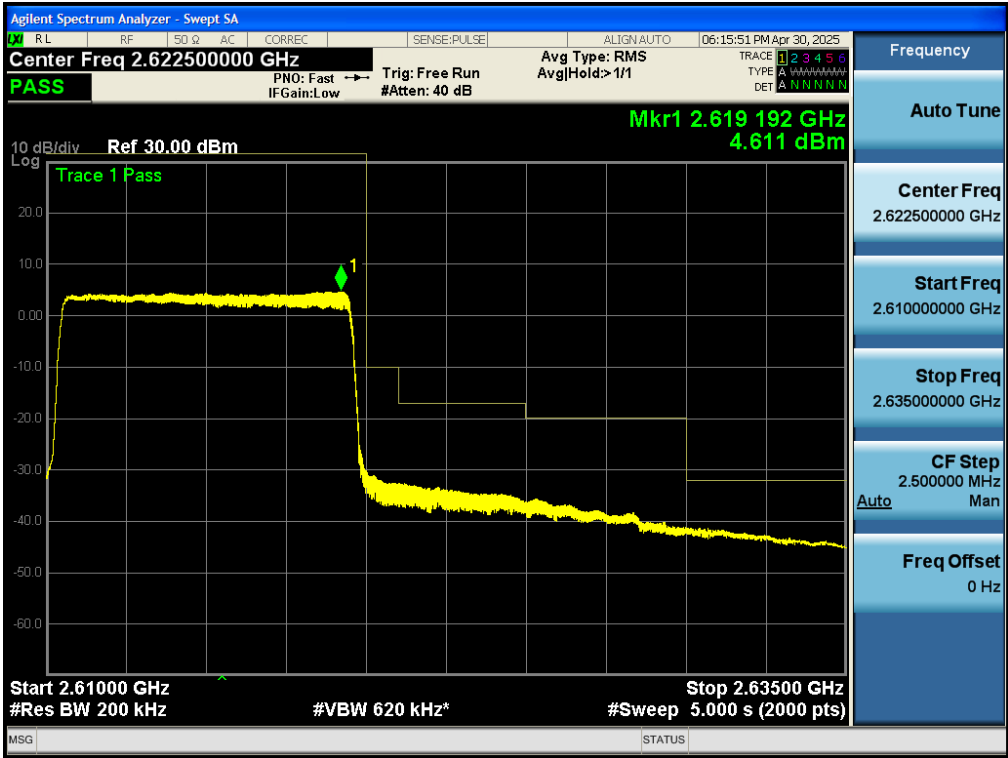
Test_Graph_band38_2575MHz_10M_QPSK_1RB#LOW_Band edge



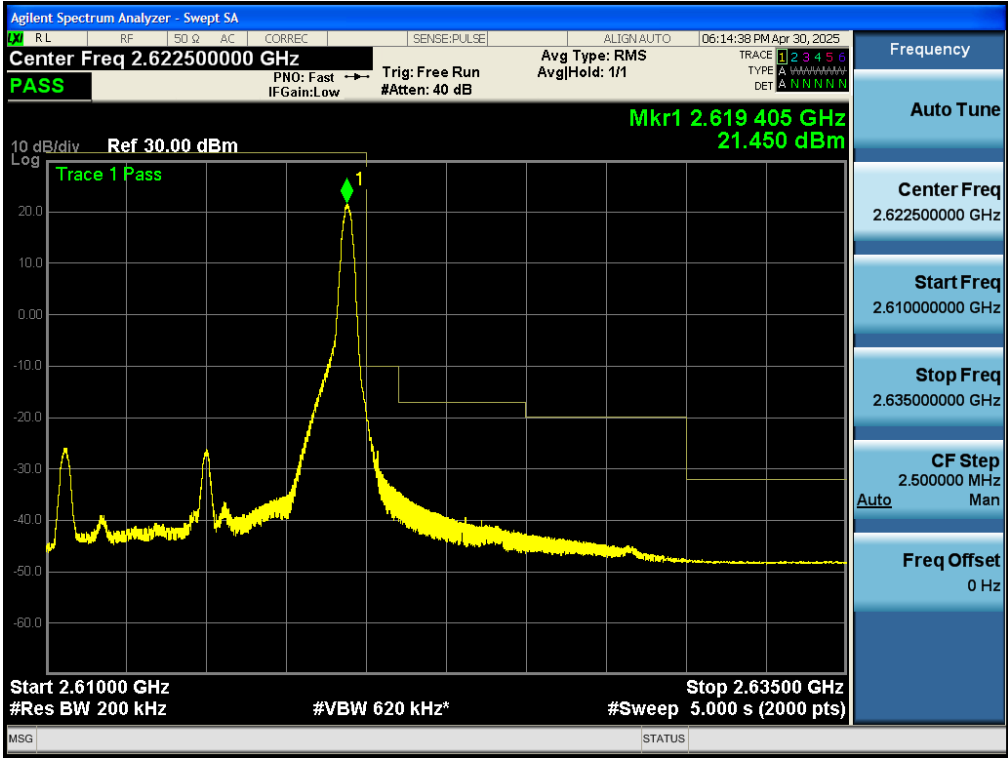
Test_Graph_band38_2575MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band38_2615MHz_10M_16QAM_1RB#HIGH_Band edge



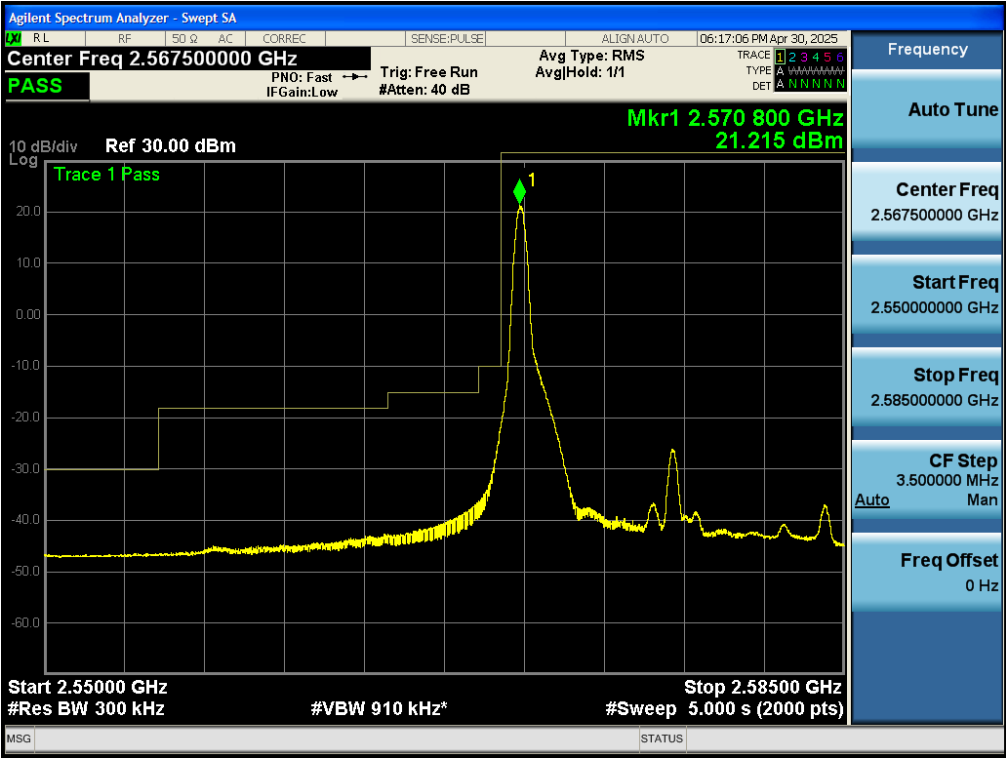
Test_Graph_band38_2615MHz_10M_16QAM_50RB#LOW_Band edge



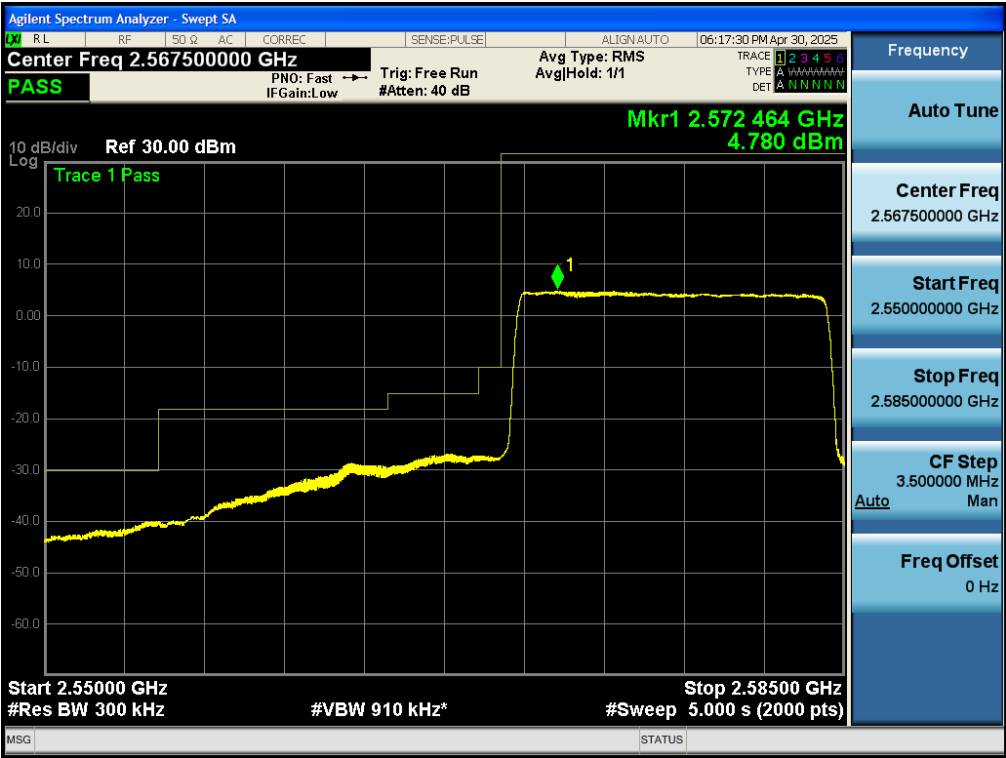
Test_Graph_band38_2615MHz_10M_QPSK_1RB#HIGH_Band edge



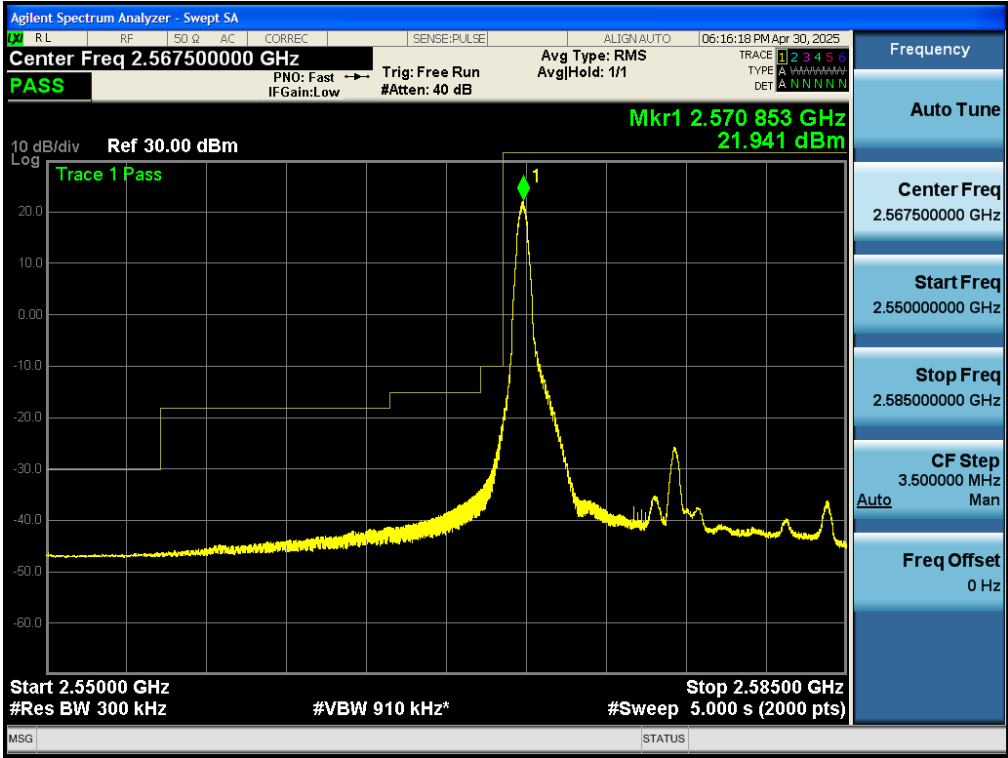
Test_Graph_band38_2615MHz_10M_QPSK_50RB#LOW_Band edge



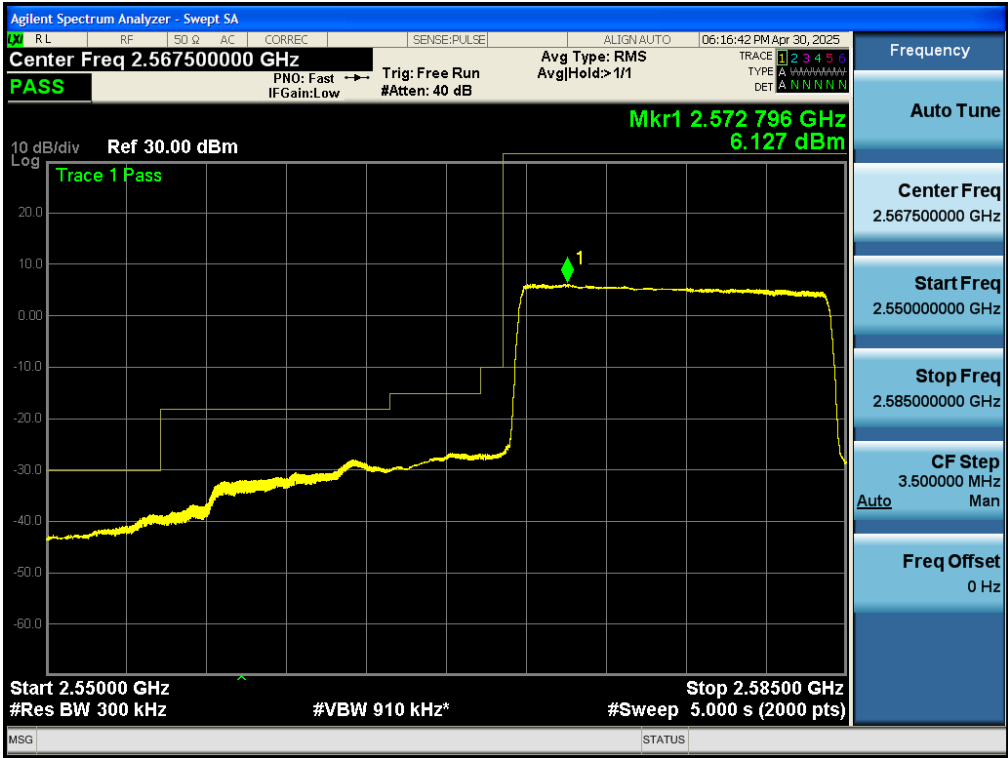
Test_Graph_band38_2577.5MHz_15M_16QAM_1RB#LOW_Band edge



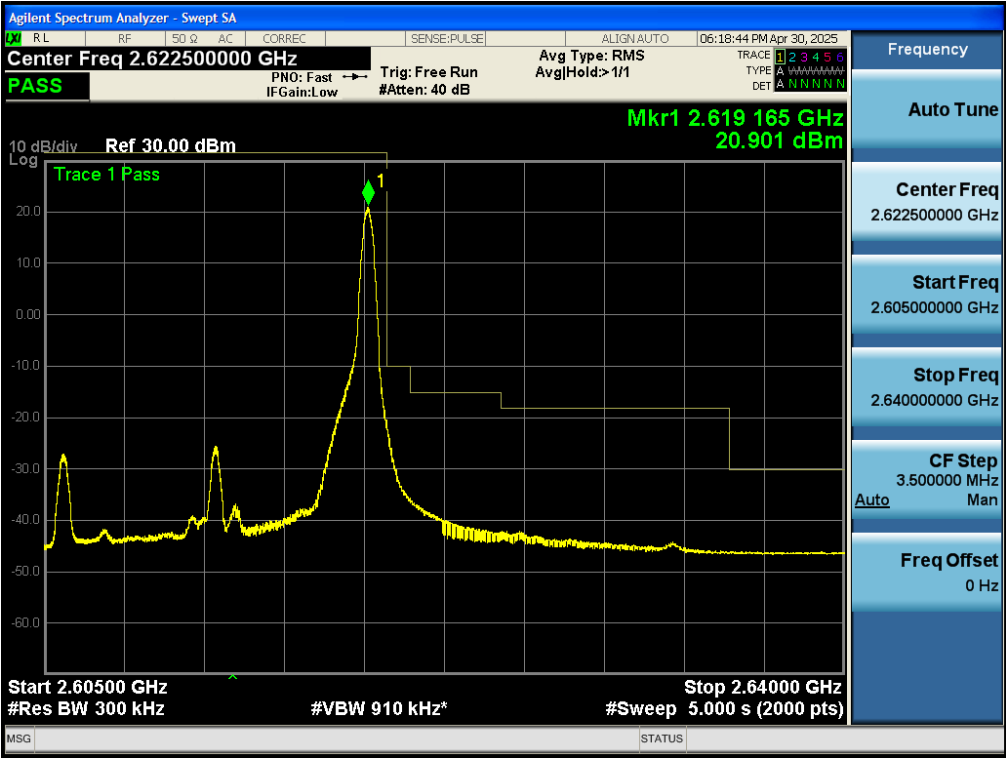
Test_Graph_band38_2577.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band38_2577.5MHz_15M_QPSK_1RB#LOW_Band edge



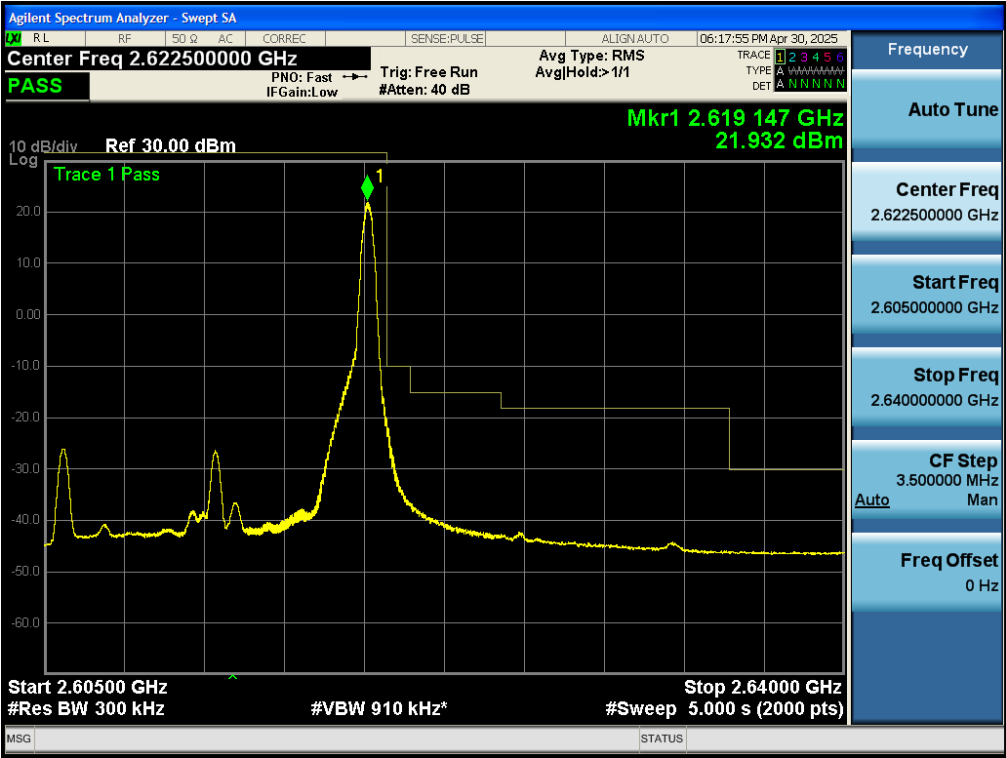
Test_Graph_band38_2577.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band38_2612.5MHz_15M_16QAM_1RB#HIGH_Band edge



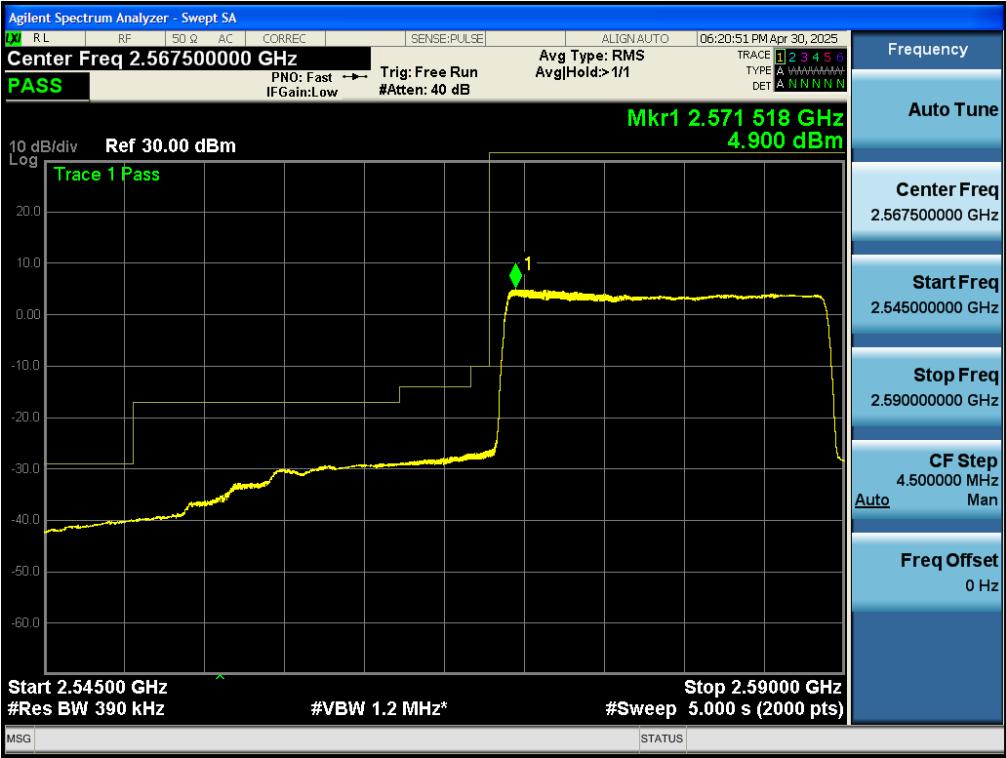
Test_Graph_band38_2612.5MHz_15M_16QAM_75RB#LOW_Band edge



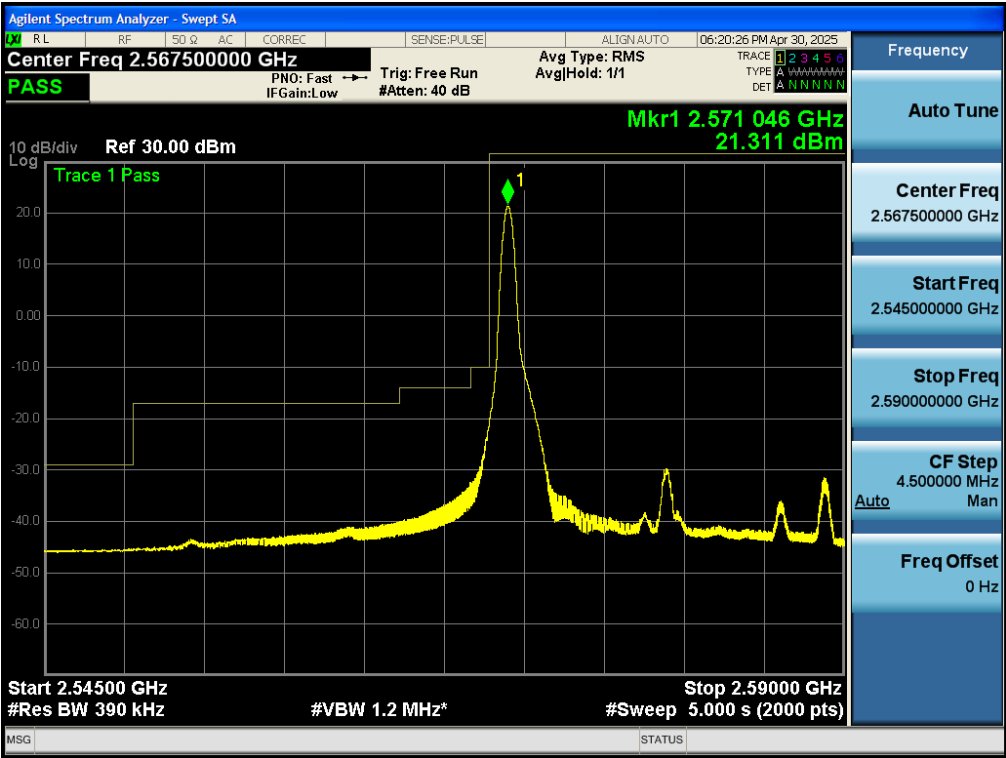
Test_Graph_band38_2612.5MHz_15M_QPSK_1RB#HIGH_Band edge



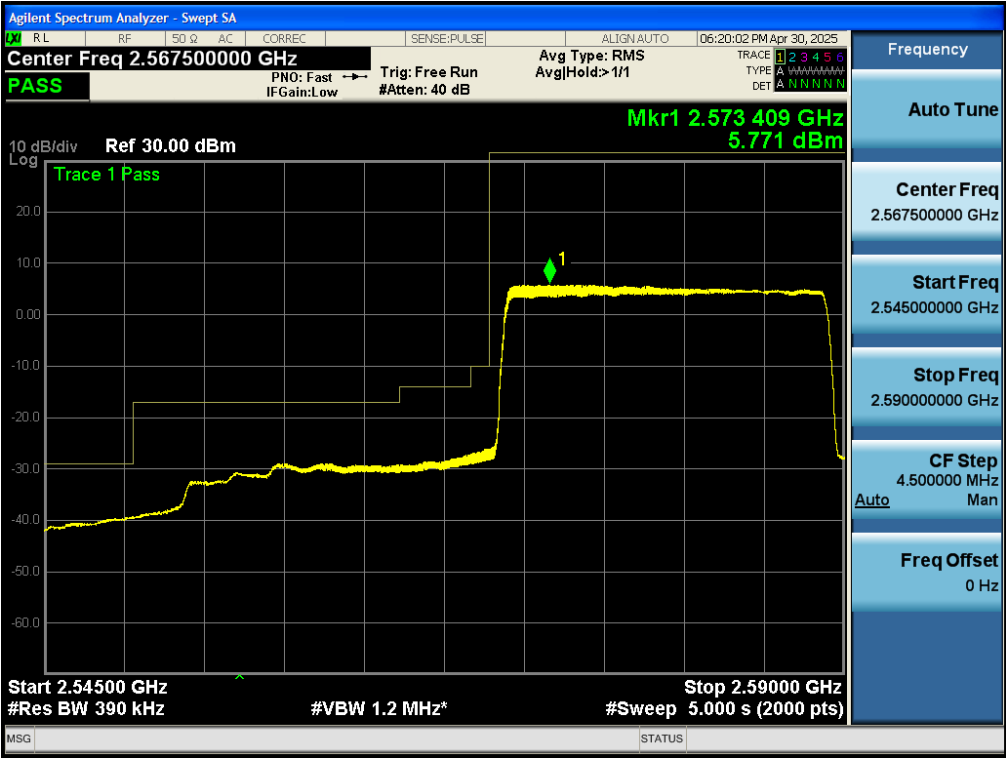
Test_Graph_band38_2612.5MHz_15M_QPSK_75RB#LOW_Band edge



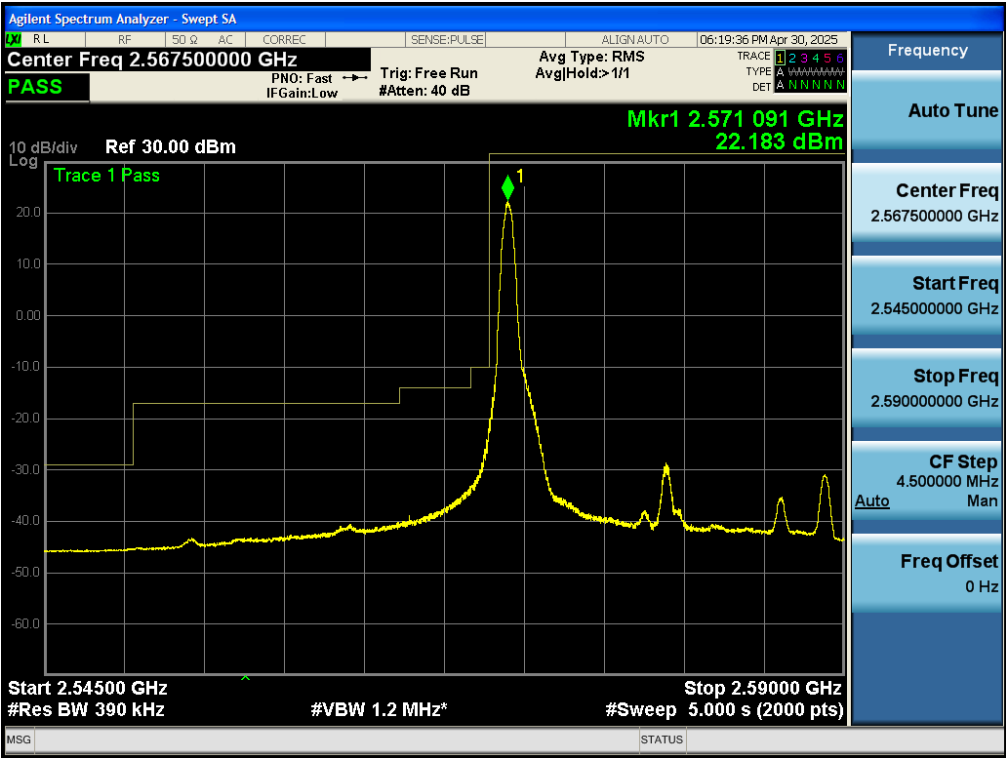
Test_Graph_band38_2580MHz_20M_16QAM_100RB#LOW_Band edge



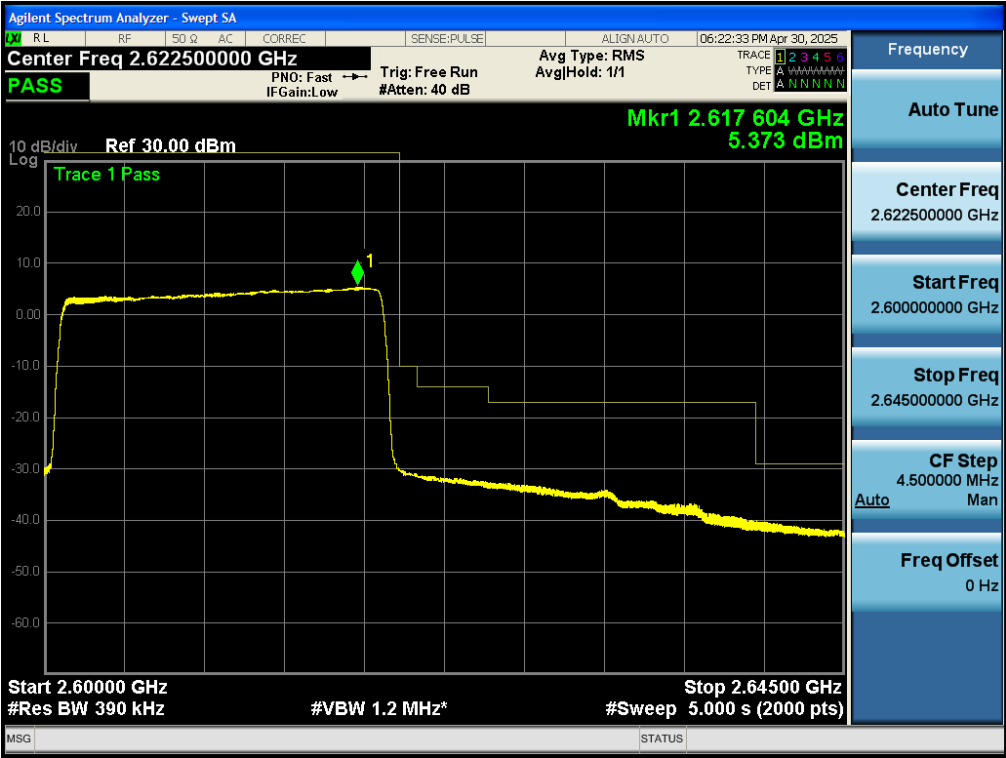
Test_Graph_band38_2580MHz_20M_16QAM_1RB#LOW_Band edge



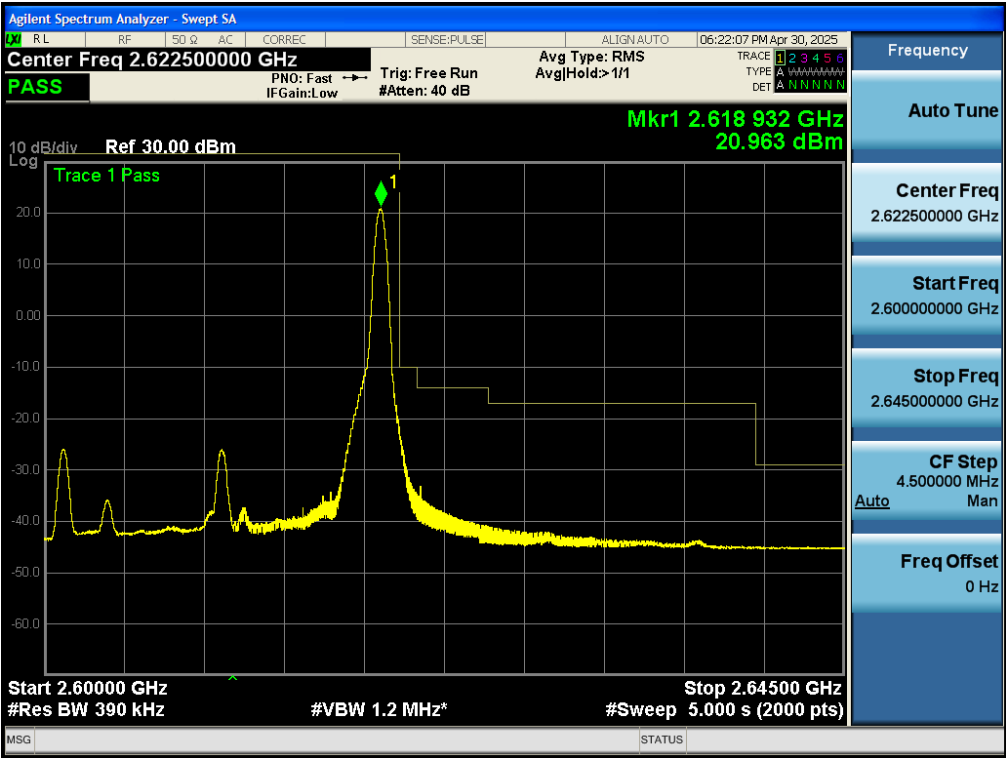
Test_Graph_band38_2580MHz_20M_QPSK_100RB#LOW_Band edge



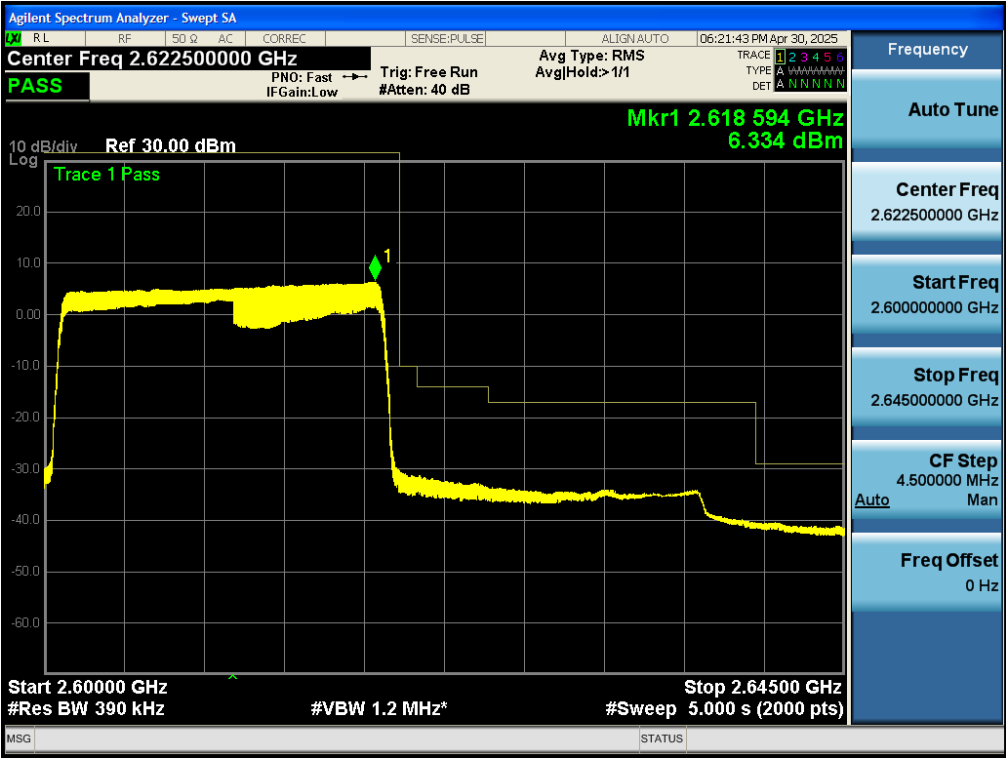
Test_Graph_band38_2580MHz_20M_QPSK_1RB#LOW_Band edge



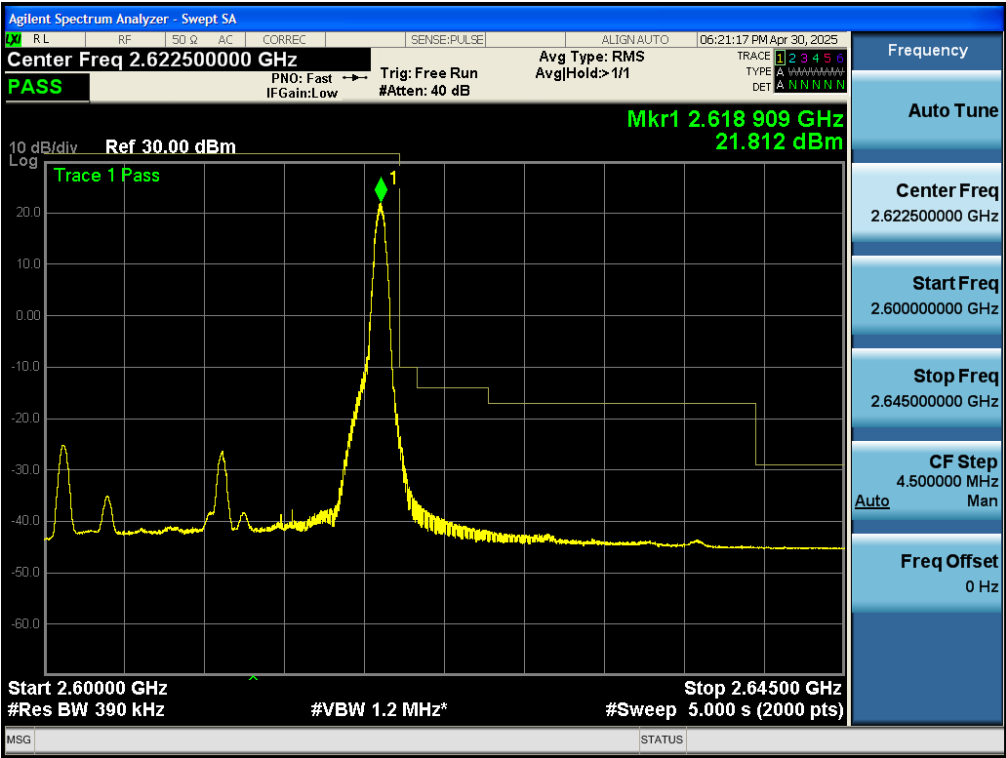
Test_Graph_band38_2610MHz_20M_16QAM_100RB#LOW_Band edge



Test_Graph_band38_2610MHz_20M_16QAM_1RB#HIGH_Band edge



Test_Graph_band38_2610MHz_20M_QPSK_100RB#LOW_Band edge



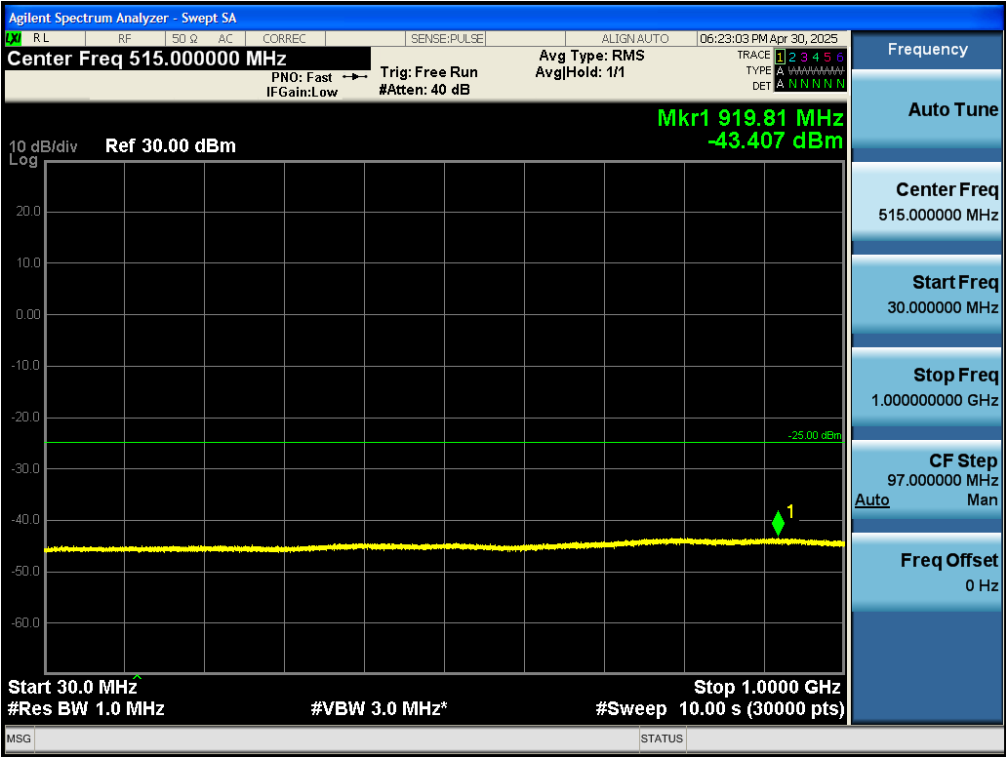
Test_Graph_band38_2610MHz_20M_QPSK_1RB#HIGH_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

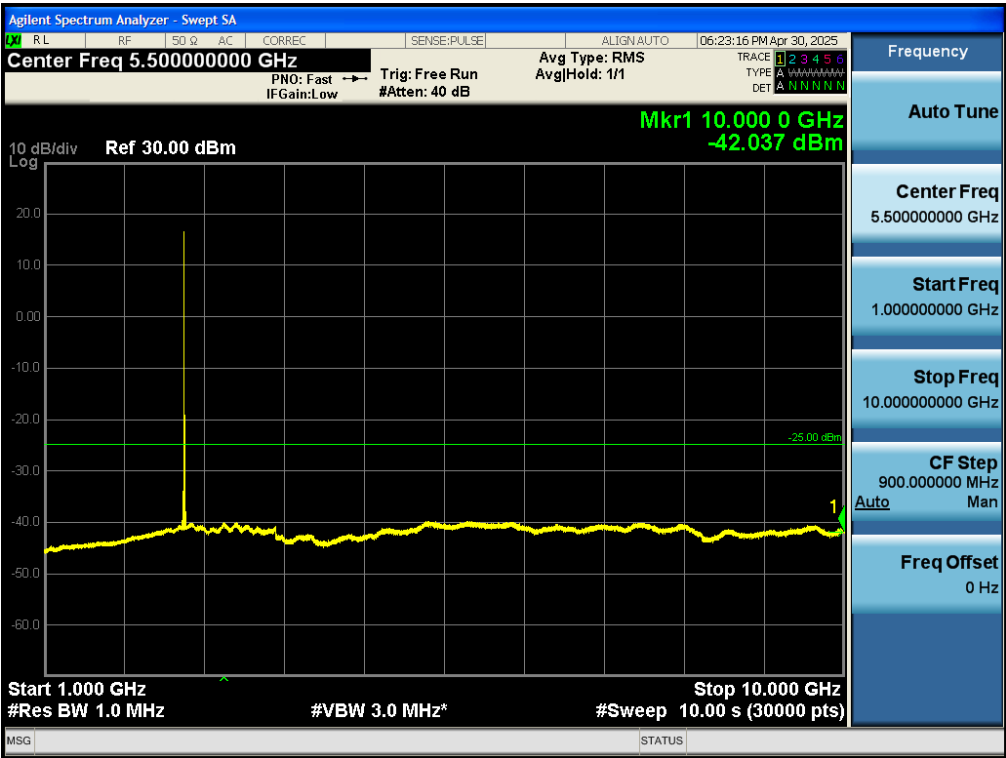
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
38	5	2572.5	QPSK	25	LOW	Pass
38	5	2595	QPSK	25	LOW	Pass
38	5	2617.5	QPSK	25	LOW	Pass
38	10	2575	QPSK	50	LOW	Pass
38	10	2595	QPSK	50	LOW	Pass
38	10	2615	QPSK	50	LOW	Pass
38	15	2577.5	QPSK	75	LOW	Pass
38	15	2595	QPSK	75	LOW	Pass
38	15	2612.5	QPSK	75	LOW	Pass
38	20	2580	QPSK	100	LOW	Pass
38	20	2595	QPSK	100	LOW	Pass
38	20	2610	QPSK	100	LOW	Pass

Test Graphs



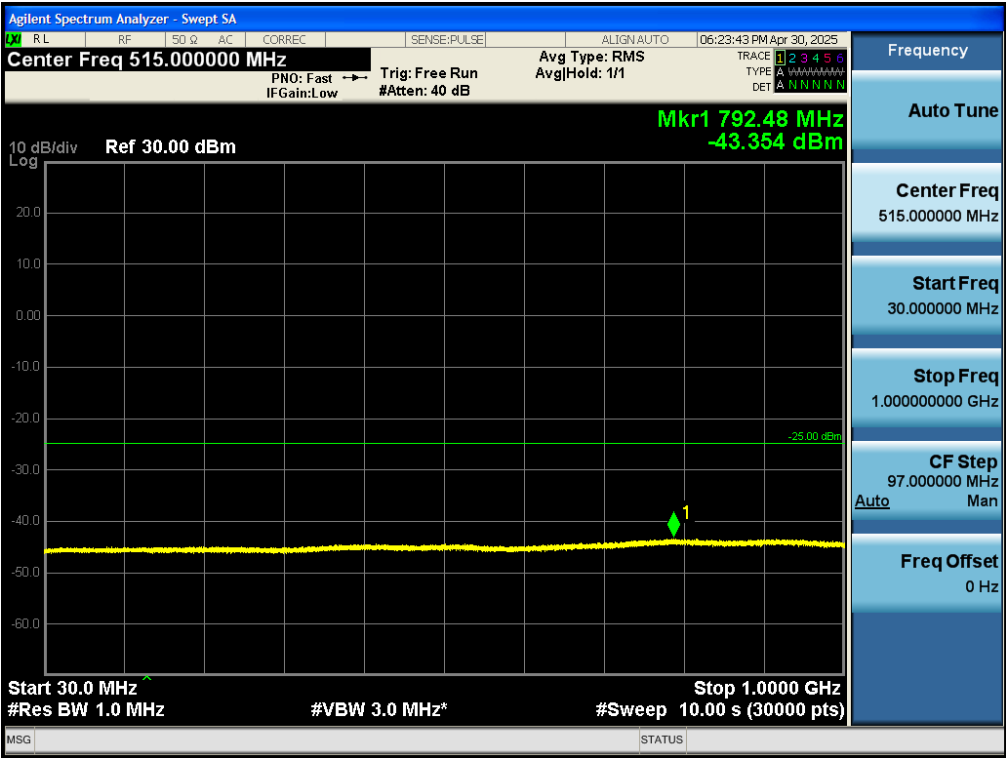
Test_Graph_band38_2572.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



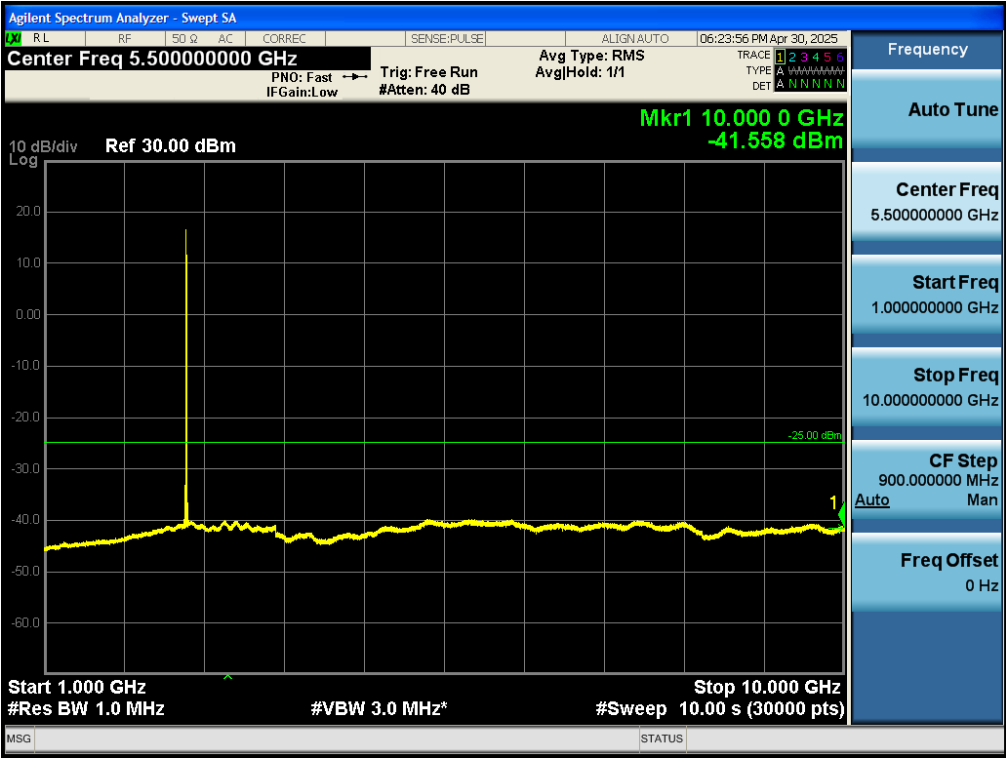
Test_Graph_band38_2572.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band38_2572.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



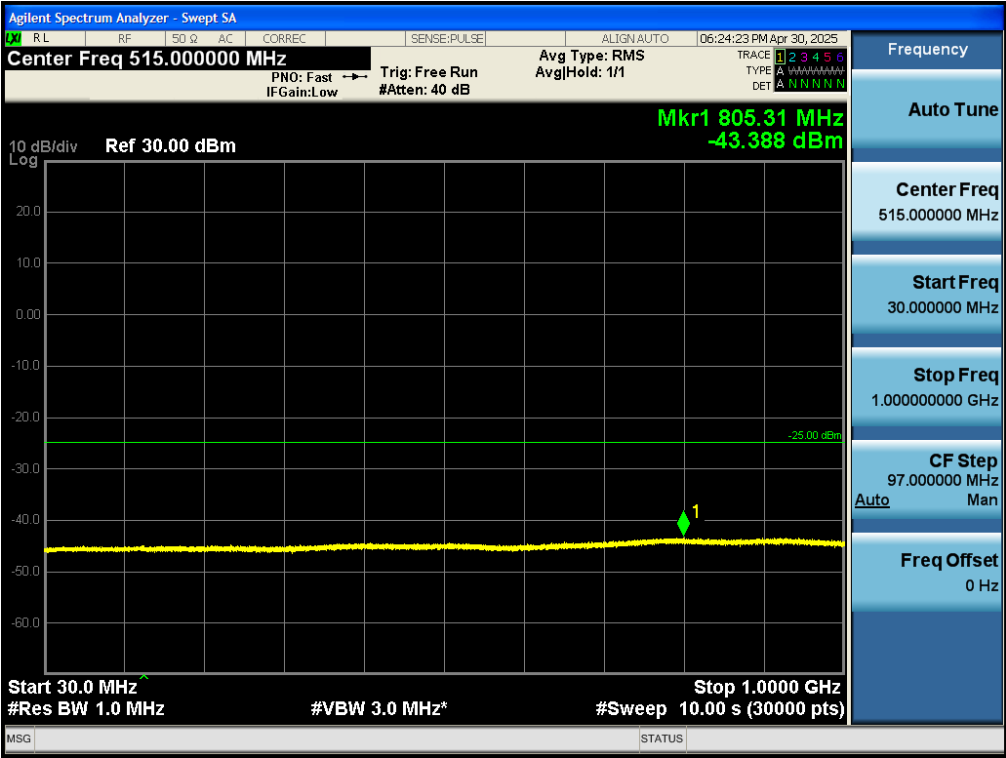
Test_Graph_band38_2595MHz_5M_QPSK_25RB#LOW_30M_1G_TX



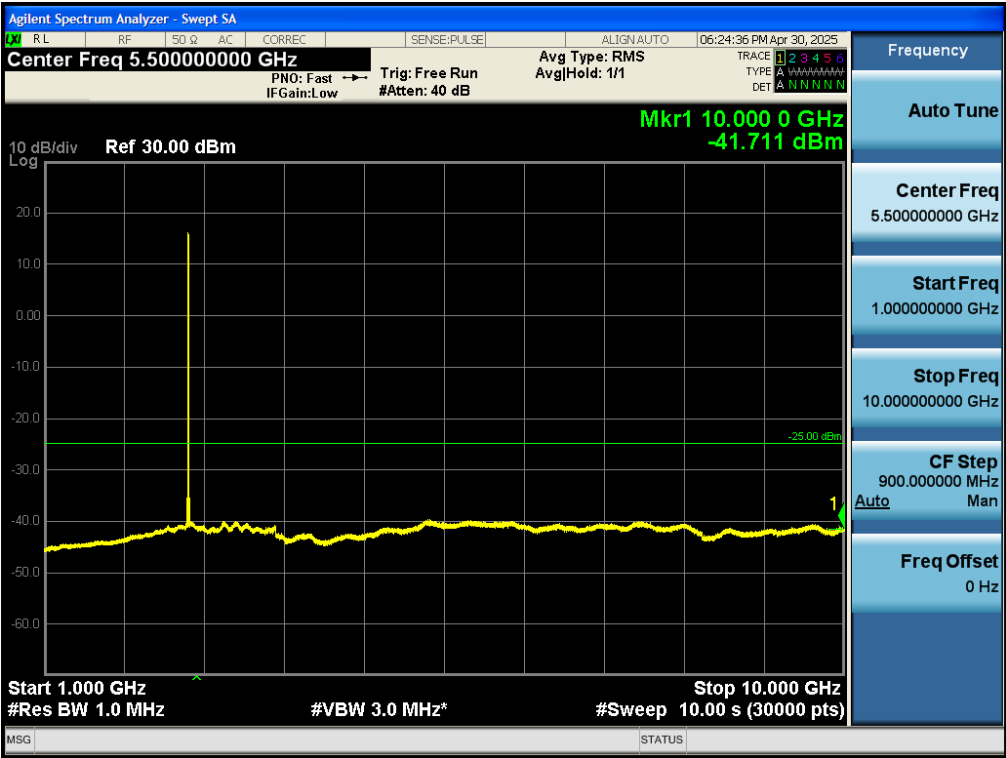
Test_Graph_band38_2595MHz_5M_QPSK_25RB#LOW_1G_10G_TX



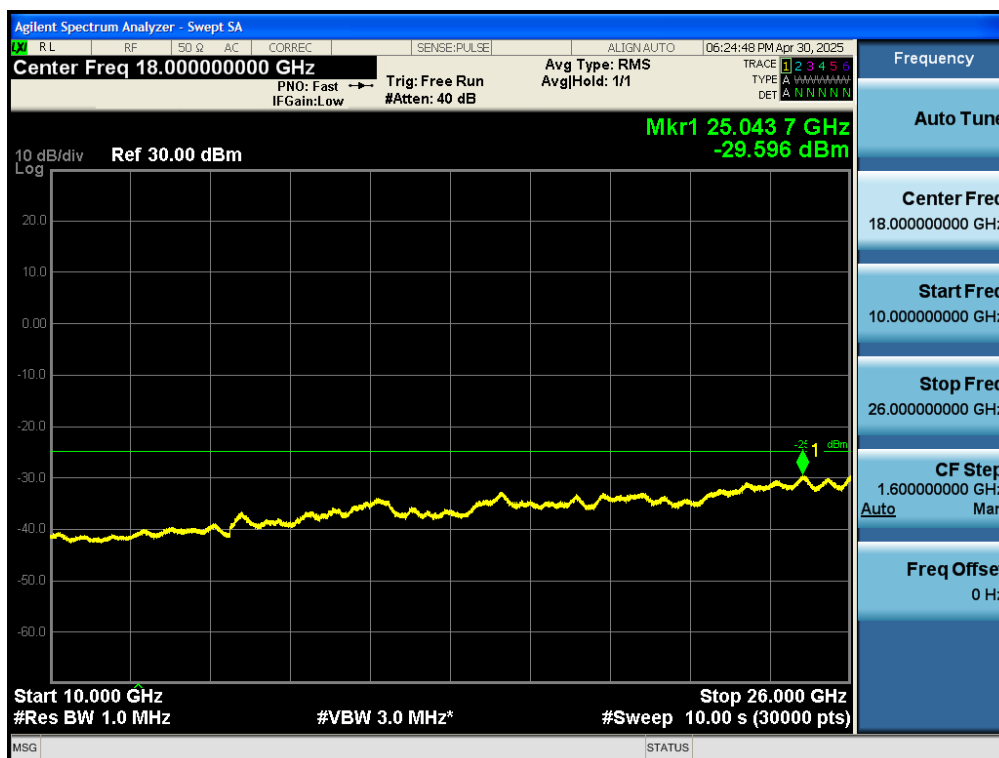
Test_Graph_band38_2595MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



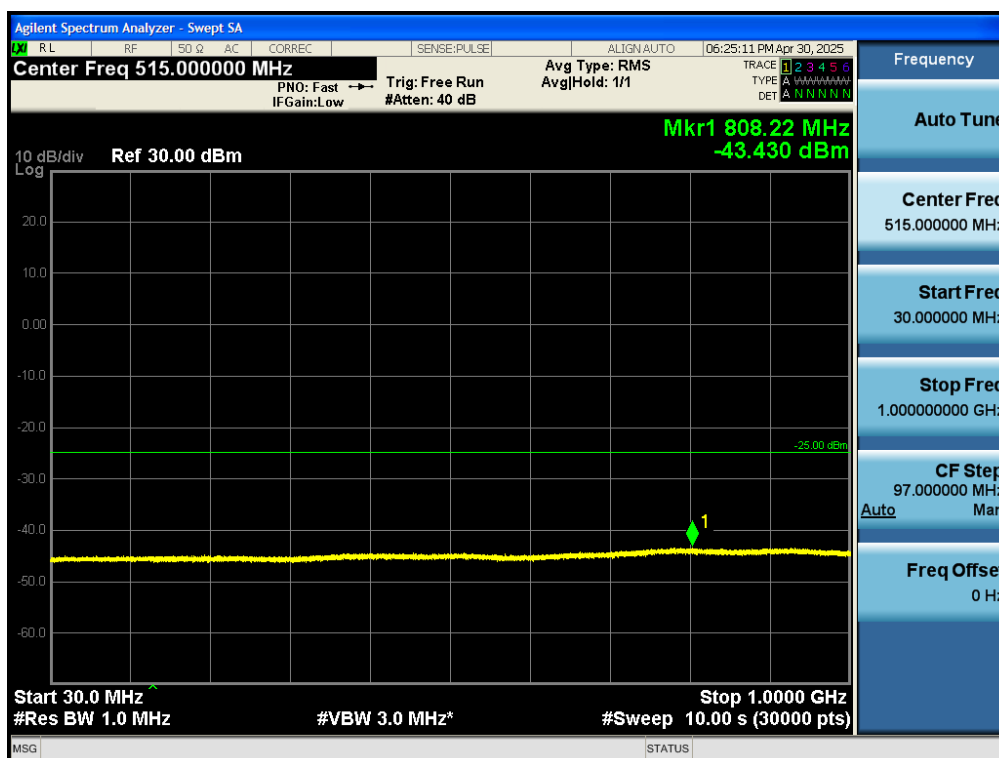
Test_Graph_band38_2617.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



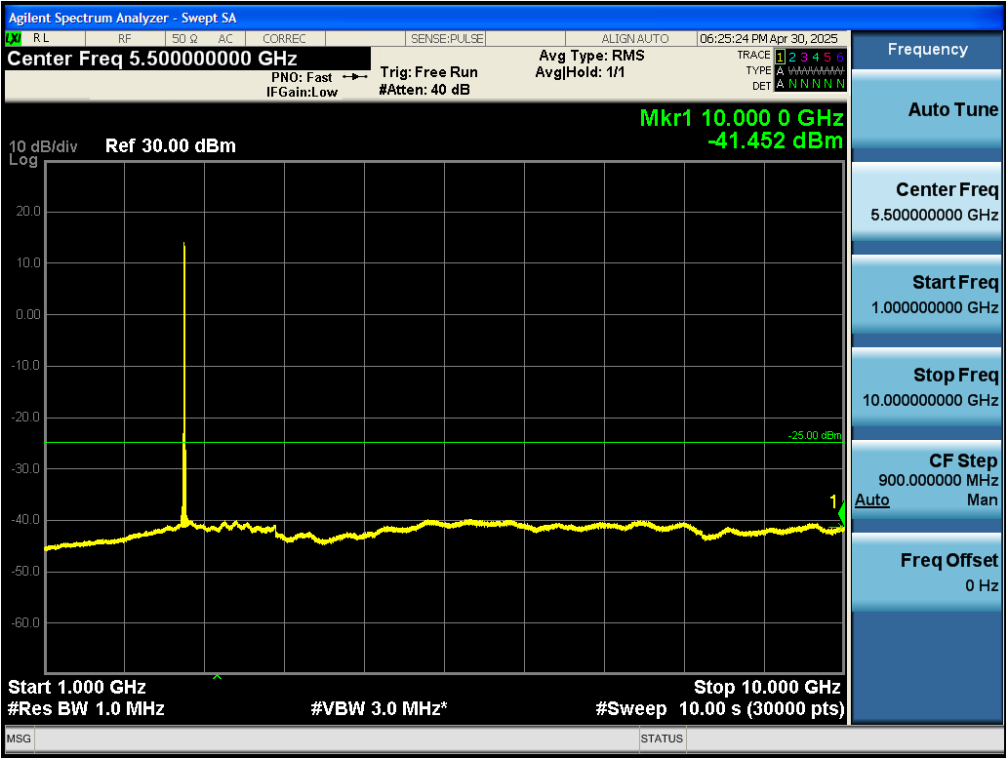
Test_Graph_band38_2617.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band38_2617.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



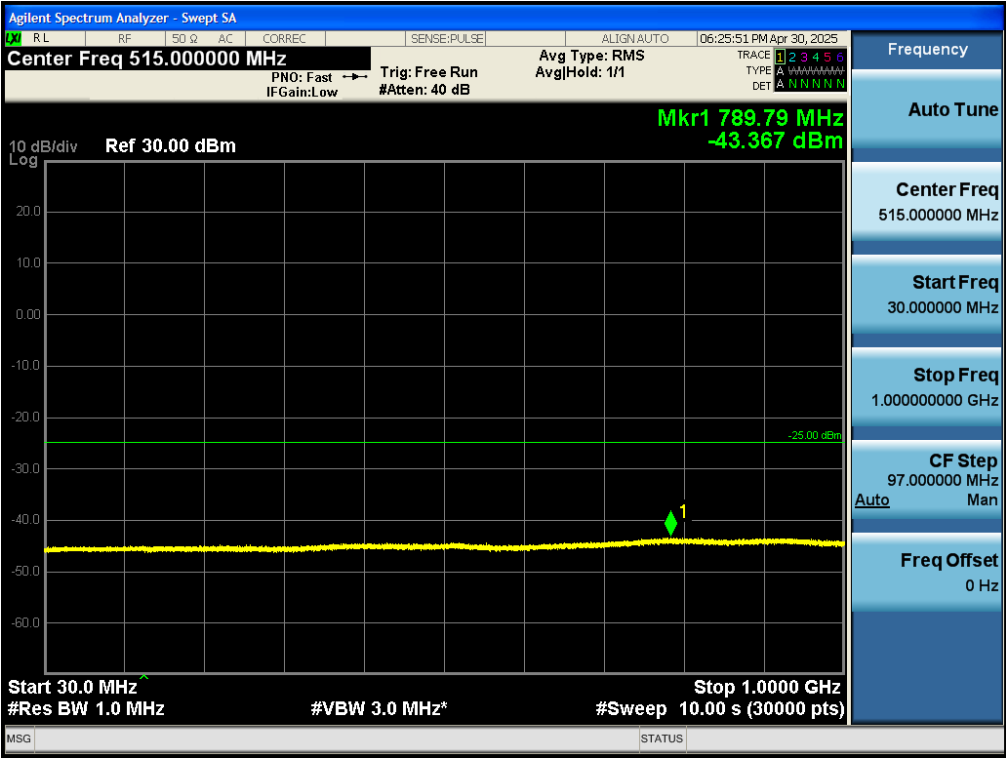
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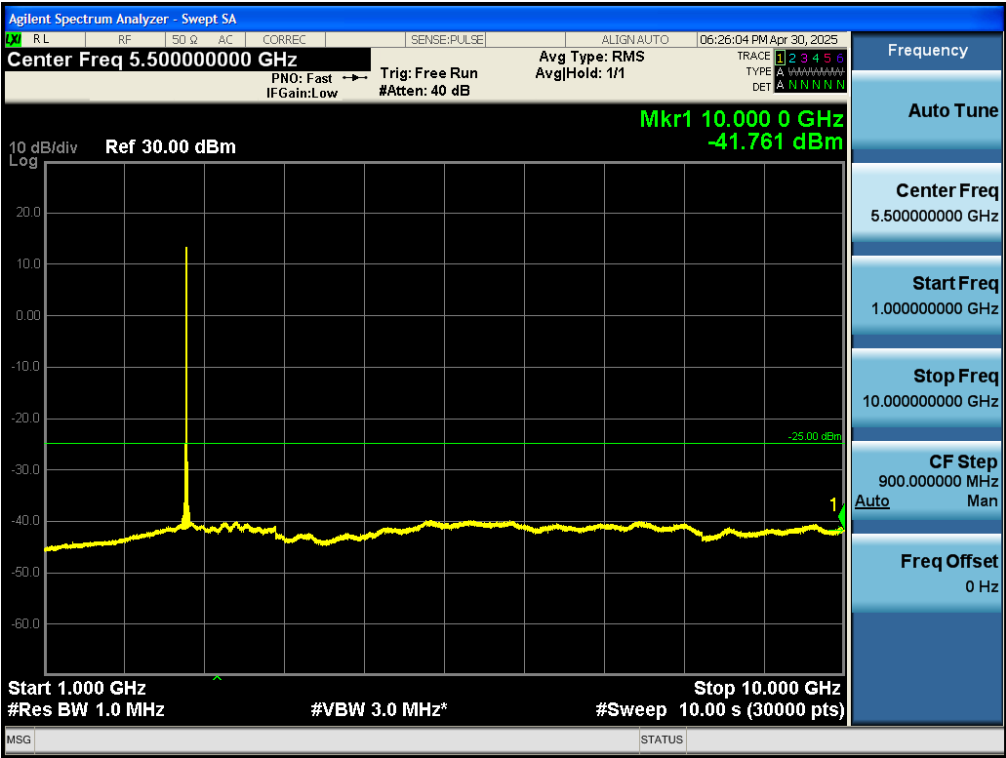
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Test_Graph_band38_2575MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



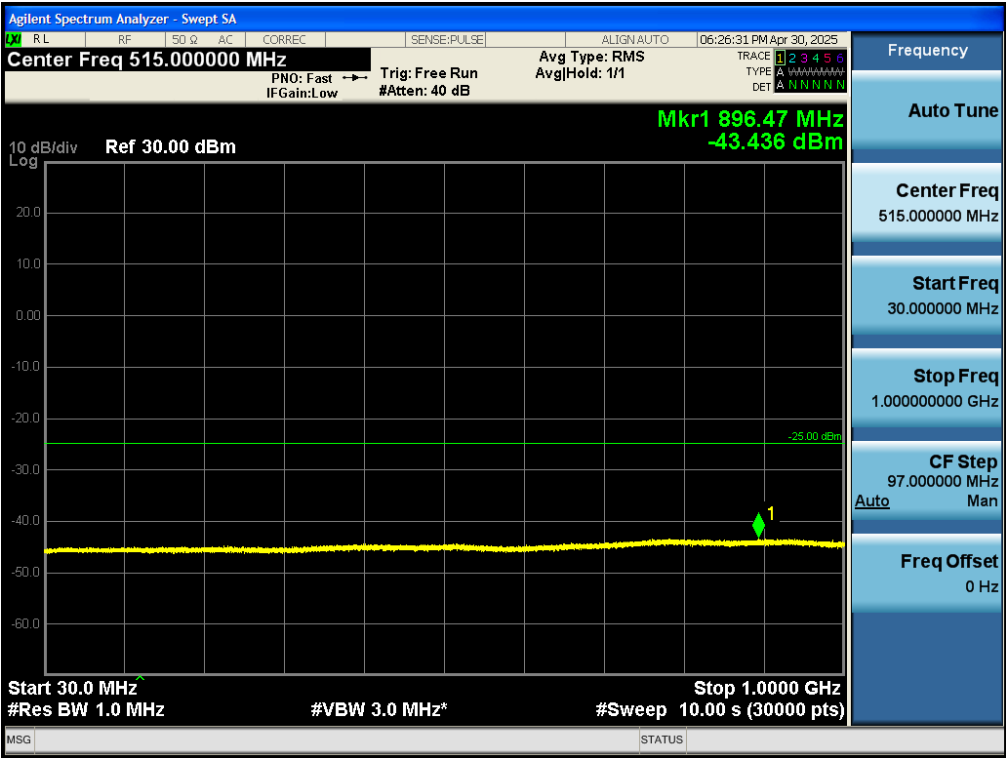
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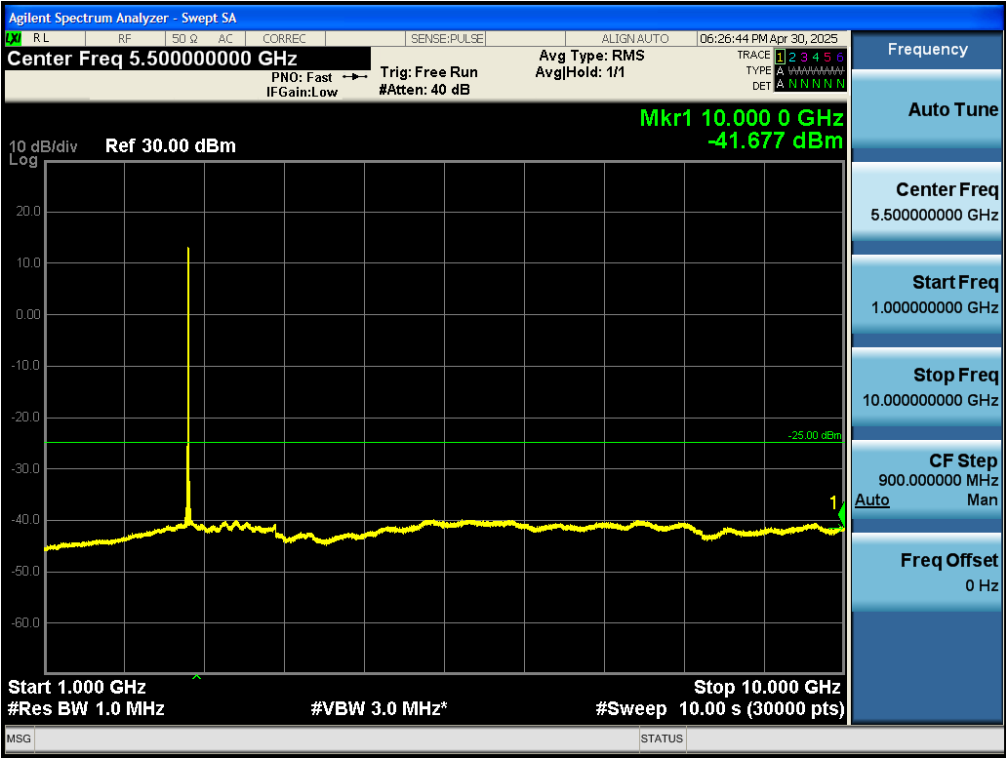
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Test_Graph_band38_2595MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



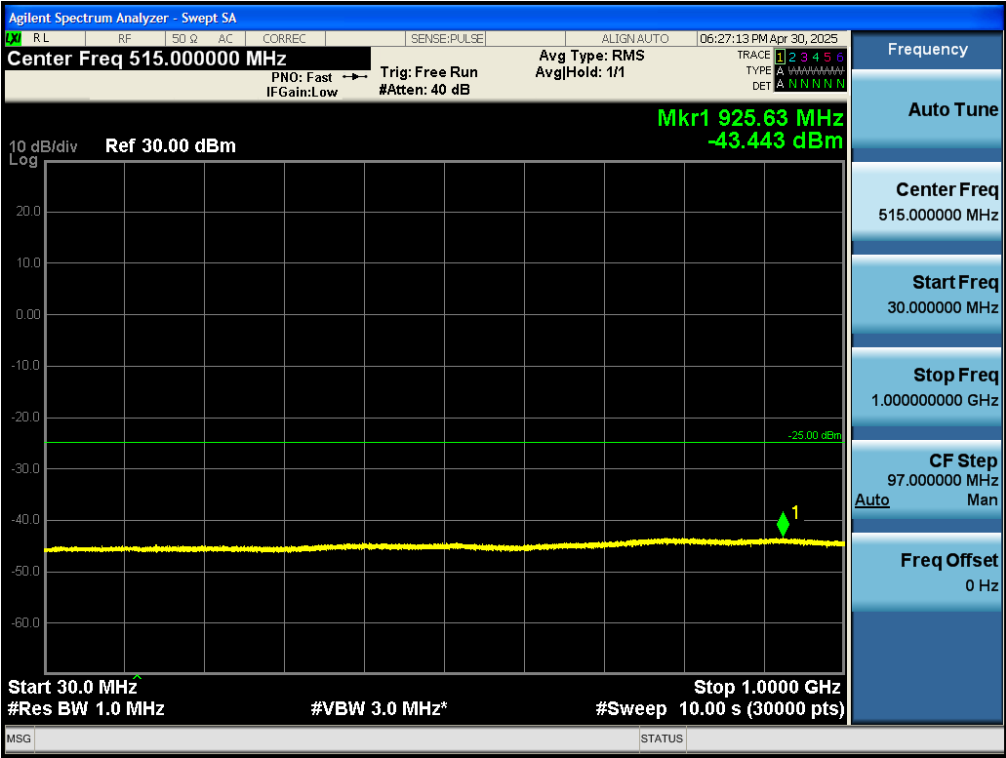
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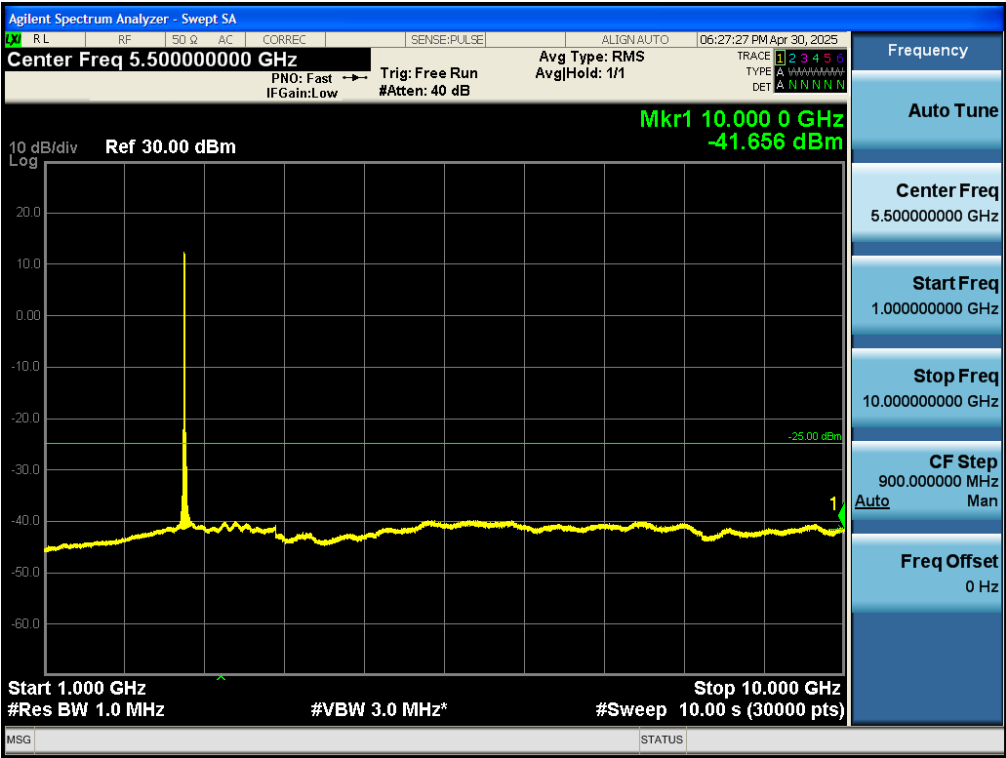
Test_Graph_band38_2615MHz_10M_QPSK_50RB#LOW_1G_10G_TX



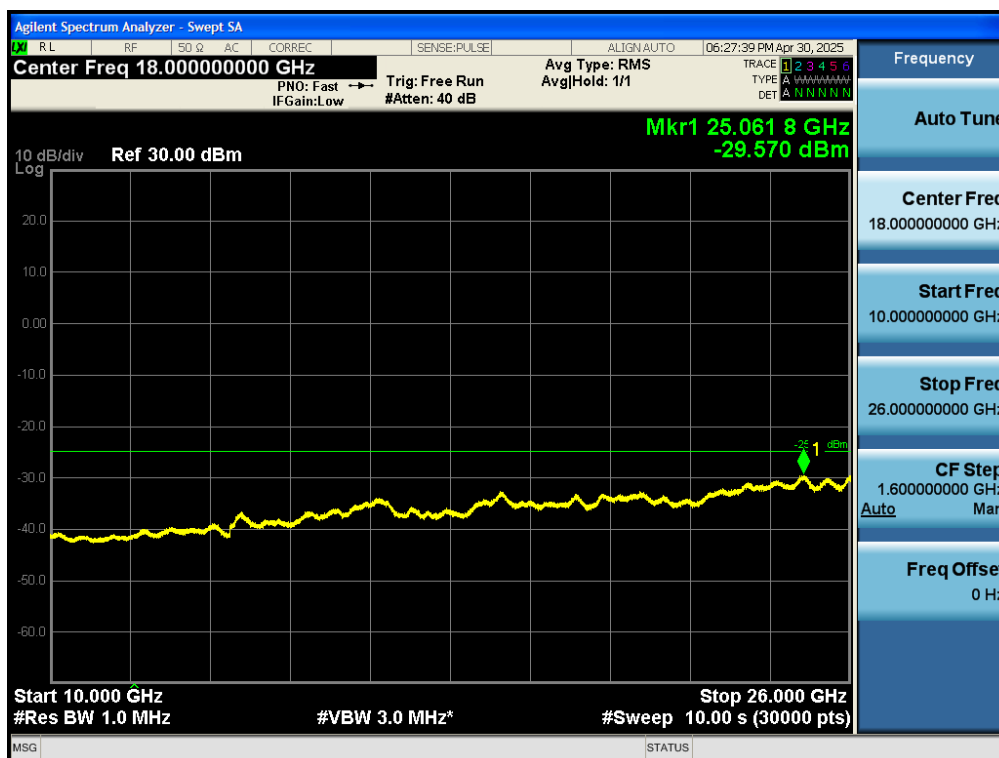
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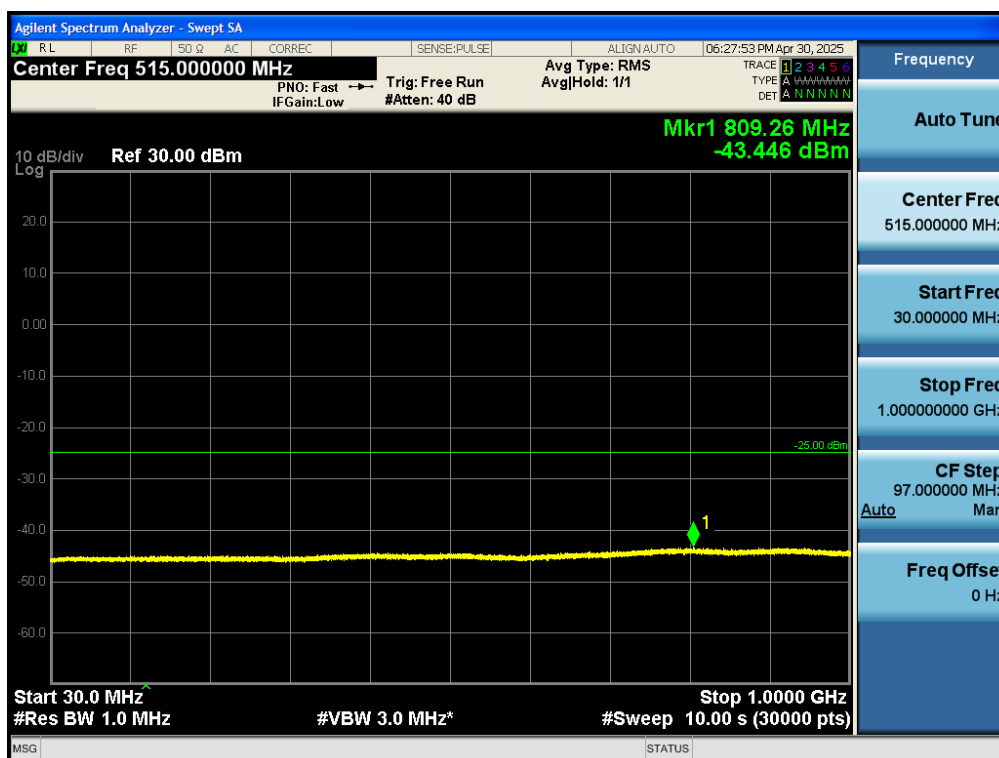
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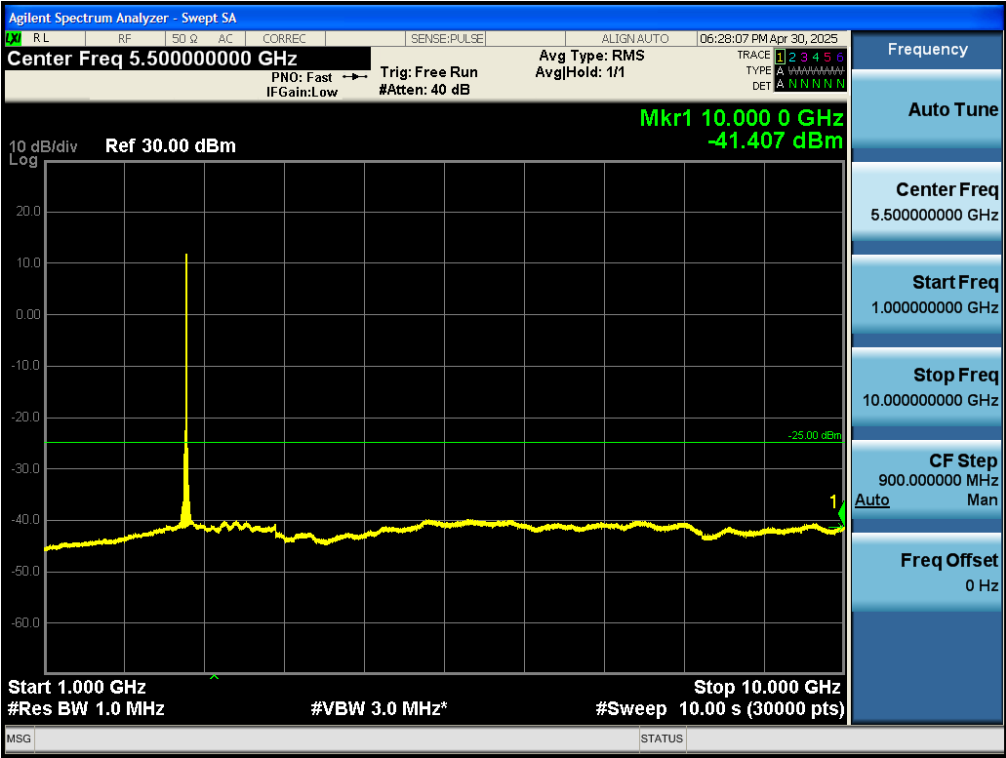
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Test_Graph_band38_2577.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



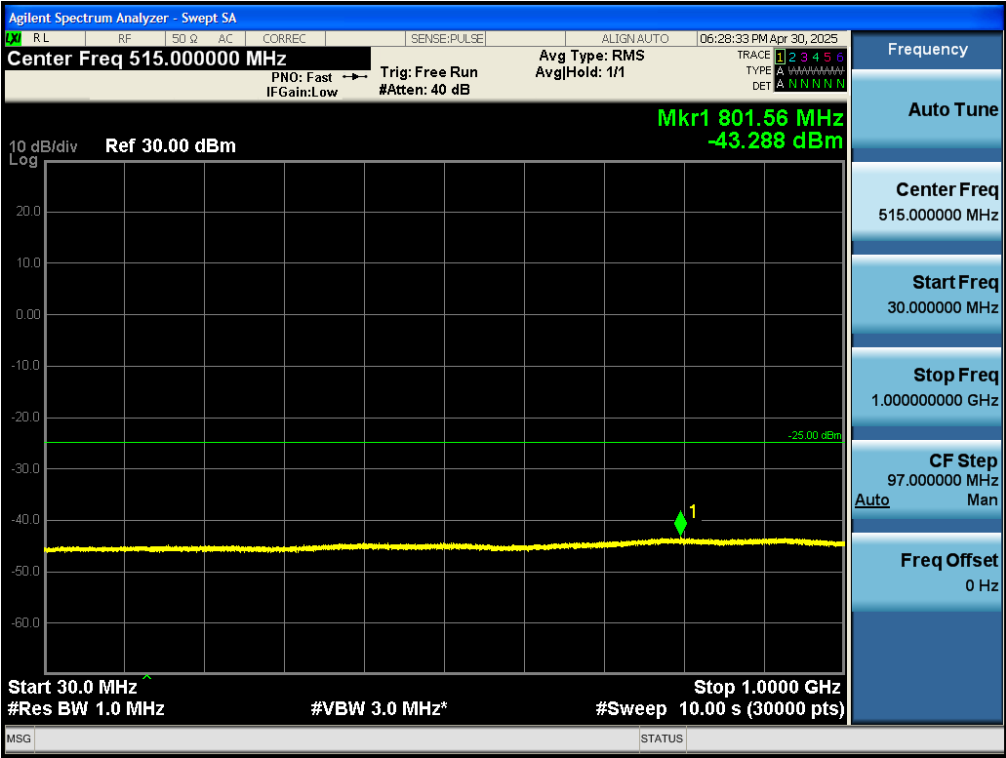
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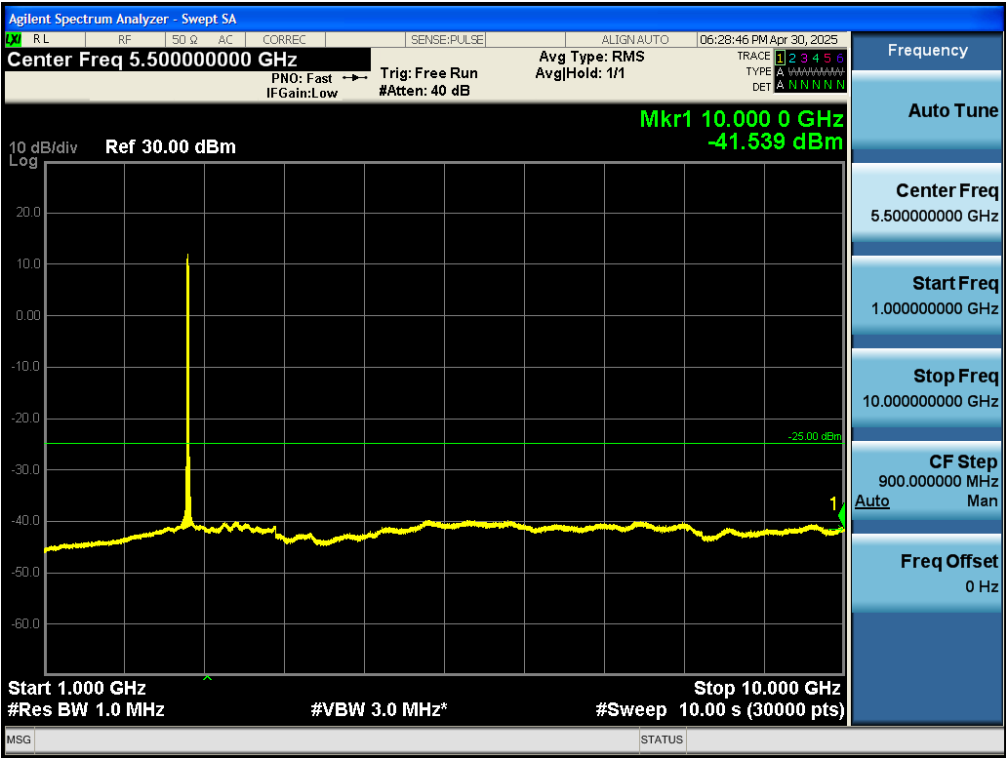
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Test_Graph_band38_2595MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



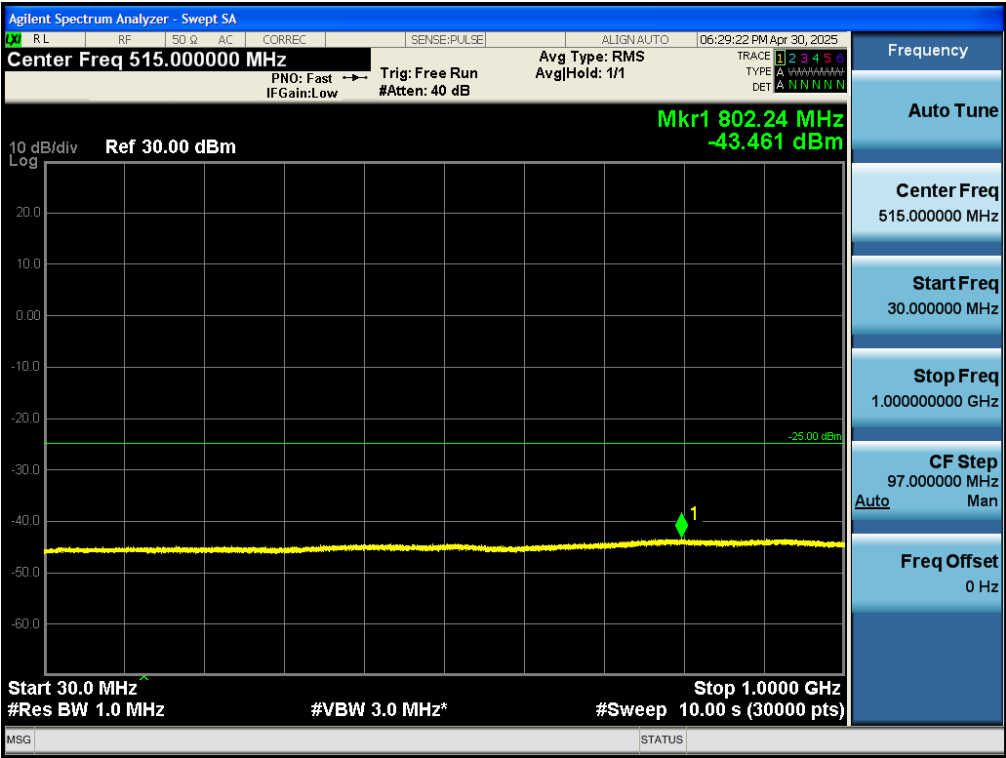
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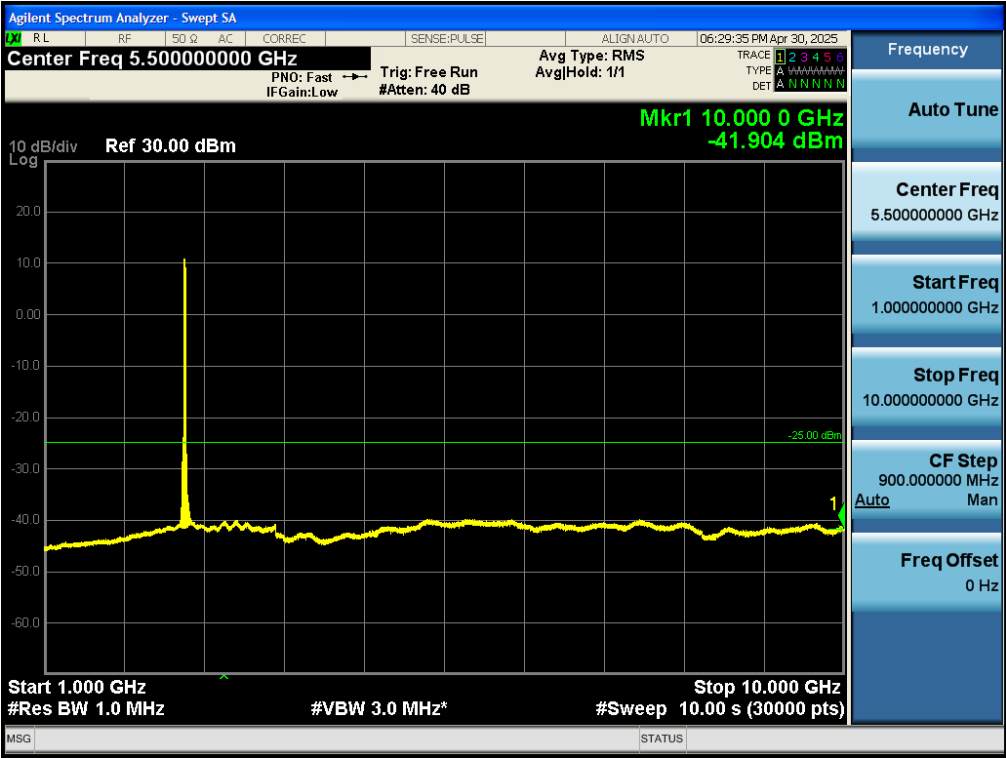
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Test_Graph_band38_2612.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



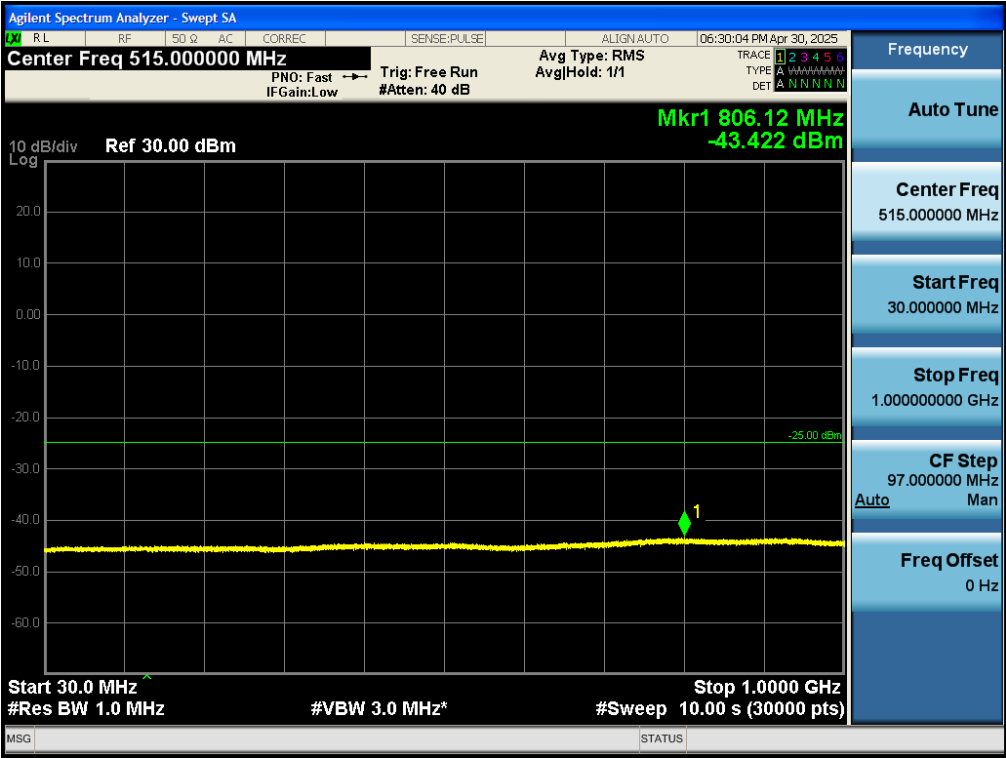
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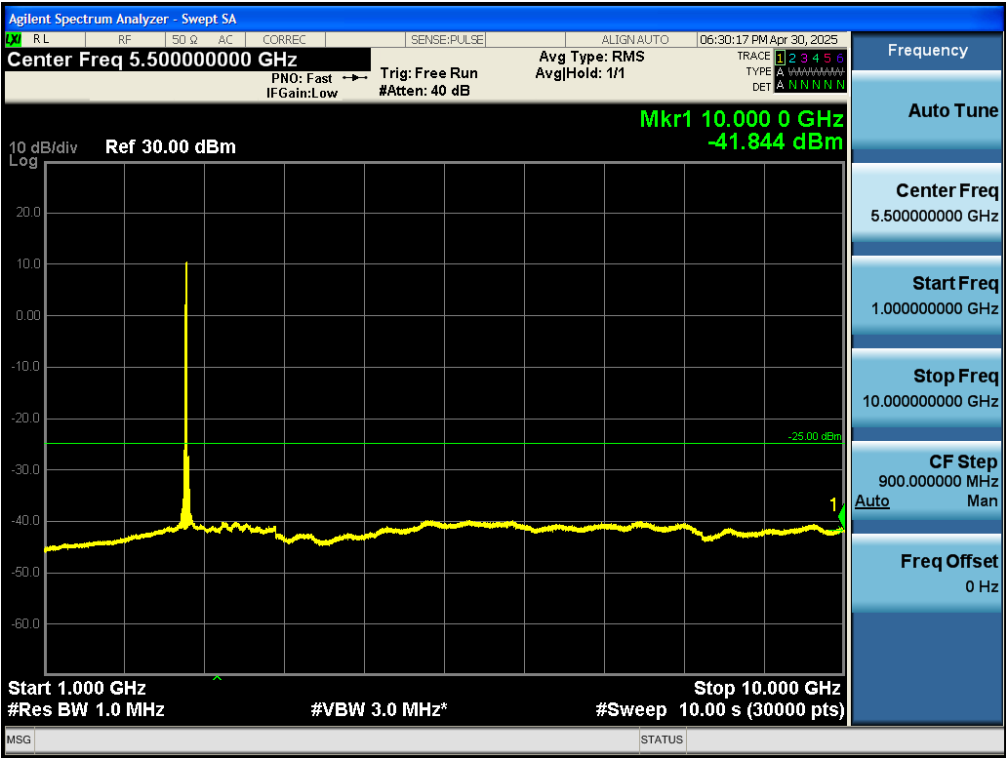
Test_Graph_band38_2580MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band38_2580MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX



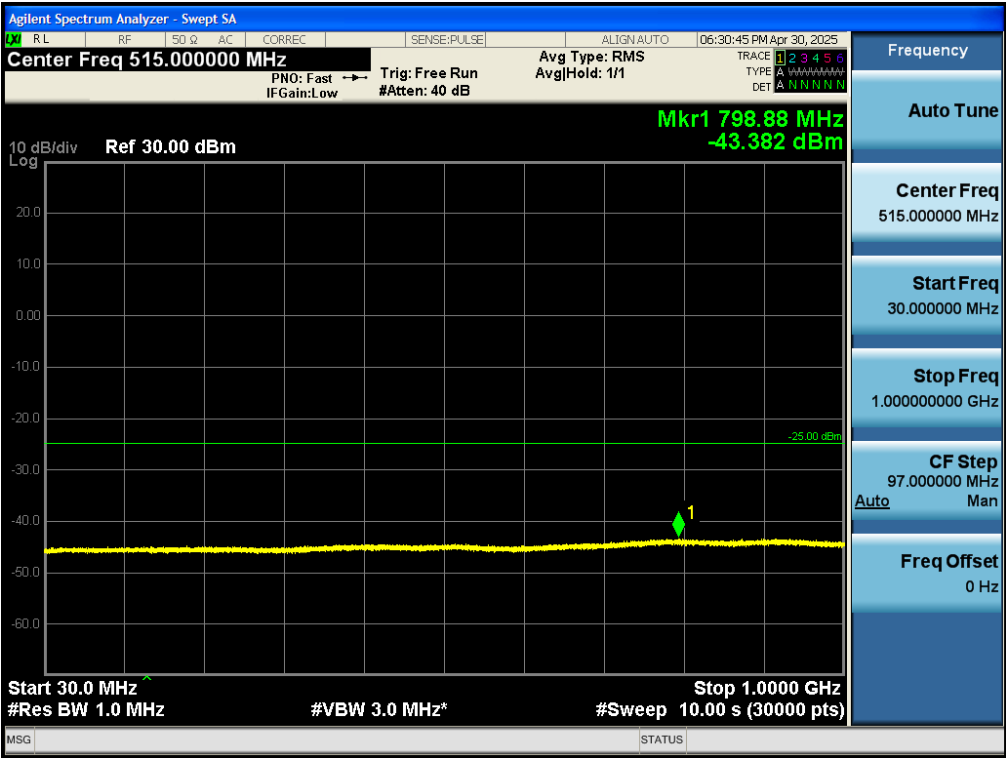
Test_Graph_band38_2595MHz_20M_QPSK_100RB#LOW_30M_1G_TX



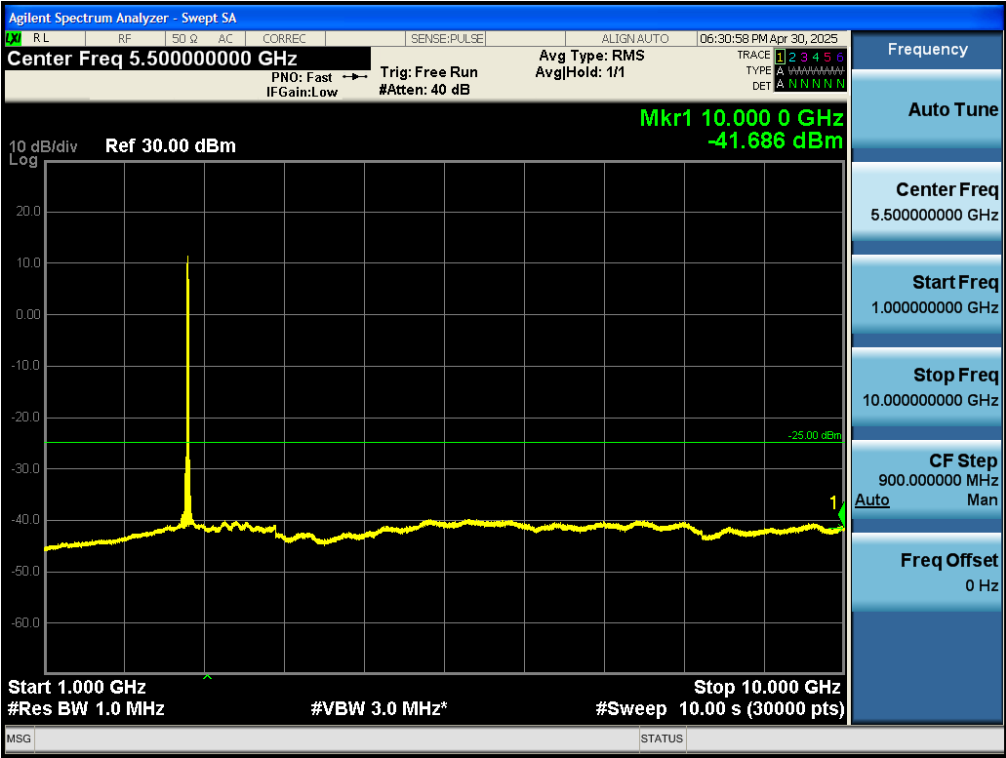
Test_Graph_band38_2595MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band38_2595MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX



Test_Graph_band38_2610MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band38_2610MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band38_2610MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX

Appendix E: Frequency stability

Test Result

Test Conditions (LTE Band 38(QPSK) /BW 20MHz)		Frequency Range		Frequency Error	Verdict
Temperature (°C)	Voltage (Volt)	>2570 Freq Reading @ Low End (MHz)	<2620 Freq Reading @ High End (MHz)	Middle Channel	
				≤2.5ppm	
50	Normal Voltage	2571.0039	2618.9299	0.0063	PASS
40	Normal Voltage	2571.0041	2618.9300	0.0062	
30	Normal Voltage	2571.0039	2618.9300	0.0065	
20(Ref.)	Normal Voltage	2571.0040	2618.9299	0.0064	
10	Normal Voltage	2571.0039	2618.9300	0.0063	
0	Normal Voltage	2571.0039	2618.9299	0.0068	
-10	Normal Voltage	2571.0041	2618.9299	0.0067	
-20	Normal Voltage	2571.0039	2618.9300	0.0068	
-30	Normal Voltage	2571.0040	2618.9300	0.0064	
20	+15%	2571.0040	2618.9299	0.0063	
20	-15%	2571.0039	2618.9300	0.0069	
20	Battery End Point	2571.0040	2618.9299	0.0067	