

Appendix Test Data for LTE band 4 (Conducted Measurement)

Product Name: GM-168

Trade Mark: /

Test Model: GM-168

FCC ID: 2BOH3-GM-168

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
4	1.4	1710.7	QPSK	6	LOW	20.54	26.4	5.86	13	0.16	20.7	33	Pass
4	1.4	1710.7	QPSK	3	LOW	21.84	26.88	5.04	13	0.16	22	33	Pass
4	1.4	1710.7	QPSK	3	MID	21.8	26.86	5.06	13	0.16	21.96	33	Pass
4	1.4	1710.7	QPSK	3	HIGH	21.8	26.92	5.12	13	0.16	21.96	33	Pass
4	1.4	1710.7	QPSK	1	LOW	21.73	26.69	4.96	13	0.16	21.89	33	Pass
4	1.4	1710.7	QPSK	1	MID	21.77	26.51	4.74	13	0.16	21.93	33	Pass
4	1.4	1710.7	QPSK	1	HIGH	21.73	26.69	4.96	13	0.16	21.89	33	Pass
4	1.4	1710.7	16QAM	6	LOW	19.12	25.74	6.62	13	0.16	19.28	33	Pass
4	1.4	1710.7	16QAM	3	LOW	20.45	26.67	6.22	13	0.16	20.61	33	Pass
4	1.4	1710.7	16QAM	3	MID	20.44	26.67	6.23	13	0.16	20.6	33	Pass
4	1.4	1710.7	16QAM	3	HIGH	20.43	26.59	6.16	13	0.16	20.59	33	Pass
4	1.4	1710.7	16QAM	1	LOW	20.48	25.59	5.11	13	0.16	20.64	33	Pass
4	1.4	1710.7	16QAM	1	MID	20.6	25.56	4.96	13	0.16	20.76	33	Pass
4	1.4	1710.7	16QAM	1	HIGH	20.57	25.53	4.96	13	0.16	20.73	33	Pass
4	1.4	1732.5	QPSK	6	LOW	21.82	26.03	4.21	13	0.16	21.98	33	Pass
4	1.4	1732.5	QPSK	3	LOW	22.79	25.63	2.84	13	0.16	22.95	33	Pass
4	1.4	1732.5	QPSK	3	MID	22.78	25.62	2.84	13	0.16	22.94	33	Pass
4	1.4	1732.5	QPSK	3	HIGH	22.68	25.39	2.71	13	0.16	22.84	33	Pass
4	1.4	1732.5	QPSK	1	LOW	22.84	25.18	2.34	13	0.16	23	33	Pass
4	1.4	1732.5	QPSK	1	MID	22.73	24.92	2.19	13	0.16	22.89	33	Pass
4	1.4	1732.5	QPSK	1	HIGH	22.66	24.89	2.23	13	0.16	22.82	33	Pass
4	1.4	1732.5	16QAM	6	LOW	20.93	25.71	4.78	13	0.16	21.09	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
4	1.4	1732.5	16QAM	3	LOW	21.83	25.57	3.74	13	0.16	21.99	33	Pass
4	1.4	1732.5	16QAM	3	MID	21.83	25.57	3.74	13	0.16	21.99	33	Pass
4	1.4	1732.5	16QAM	3	HIGH	21.75	25.27	3.52	13	0.16	21.91	33	Pass
4	1.4	1732.5	16QAM	1	LOW	21.83	25.14	3.31	13	0.16	21.99	33	Pass
4	1.4	1732.5	16QAM	1	MID	21.75	24.92	3.17	13	0.16	21.91	33	Pass
4	1.4	1732.5	16QAM	1	HIGH	21.73	24.85	3.12	13	0.16	21.89	33	Pass
4	1.4	1754.3	QPSK	6	LOW	20.74	25.39	4.65	13	0.16	20.9	33	Pass
4	1.4	1754.3	QPSK	3	LOW	21.8	24.97	3.17	13	0.16	21.96	33	Pass
4	1.4	1754.3	QPSK	3	MID	21.75	24.96	3.21	13	0.16	21.91	33	Pass
4	1.4	1754.3	QPSK	3	HIGH	21.78	25.11	3.33	13	0.16	21.94	33	Pass
4	1.4	1754.3	QPSK	1	LOW	21.71	24.7	2.99	13	0.16	21.87	33	Pass
4	1.4	1754.3	QPSK	1	MID	21.79	24.56	2.77	13	0.16	21.95	33	Pass
4	1.4	1754.3	QPSK	1	HIGH	21.81	24.9	3.09	13	0.16	21.97	33	Pass
4	1.4	1754.3	16QAM	6	LOW	19.5	25.31	5.81	13	0.16	19.66	33	Pass
4	1.4	1754.3	16QAM	3	LOW	20.69	24.69	4	13	0.16	20.85	33	Pass
4	1.4	1754.3	16QAM	3	MID	20.68	24.69	4.01	13	0.16	20.84	33	Pass
4	1.4	1754.3	16QAM	3	HIGH	20.76	24.87	4.11	13	0.16	20.92	33	Pass
4	1.4	1754.3	16QAM	1	LOW	20.57	24.55	3.98	13	0.16	20.73	33	Pass
4	1.4	1754.3	16QAM	1	MID	20.59	24.46	3.87	13	0.16	20.75	33	Pass
4	1.4	1754.3	16QAM	1	HIGH	20.66	24.66	4	13	0.16	20.82	33	Pass
4	3	1711.5	QPSK	15	LOW	20.26	26.86	6.60	13	0.16	20.42	33	Pass
4	3	1711.5	QPSK	8	LOW	20.34	26.48	6.14	13	0.16	20.5	33	Pass
4	3	1711.5	QPSK	8	MID	20.31	26.5	6.19	13	0.16	20.47	33	Pass
4	3	1711.5	QPSK	8	HIGH	20.36	26.67	6.31	13	0.16	20.52	33	Pass
4	3	1711.5	QPSK	1	LOW	21.72	26.3	4.58	13	0.16	21.88	33	Pass
4	3	1711.5	QPSK	1	MID	21.7	26.45	4.75	13	0.16	21.86	33	Pass
4	3	1711.5	QPSK	1	HIGH	21.6	26.5	4.90	13	0.16	21.76	33	Pass
4	3	1711.5	16QAM	15	LOW	19.06	26.25	7.19	13	0.16	19.22	33	Pass
4	3	1711.5	16QAM	8	LOW	19.13	25.54	6.41	13	0.16	19.29	33	Pass
4	3	1711.5	16QAM	8	MID	19.12	25.6	6.48	13	0.16	19.28	33	Pass
4	3	1711.5	16QAM	8	HIGH	19.12	25.69	6.57	13	0.16	19.28	33	Pass
4	3	1711.5	16QAM	1	LOW	20.46	25.79	5.33	13	0.16	20.62	33	Pass
4	3	1711.5	16QAM	1	MID	20.45	25.84	5.39	13	0.16	20.61	33	Pass
4	3	1711.5	16QAM	1	HIGH	20.31	25.8	5.49	13	0.16	20.47	33	Pass
4	3	1732.5	QPSK	15	LOW	21.87	26.39	4.52	13	0.16	22.03	33	Pass
4	3	1732.5	QPSK	8	LOW	21.92	25.75	3.83	13	0.16	22.08	33	Pass
4	3	1732.5	QPSK	8	MID	21.93	25.71	3.78	13	0.16	22.09	33	Pass
4	3	1732.5	QPSK	8	HIGH	21.79	25.55	3.76	13	0.16	21.95	33	Pass
4	3	1732.5	QPSK	1	LOW	23.05	25.64	2.59	13	0.16	23.21	33	Pass
4	3	1732.5	QPSK	1	MID	22.77	25.12	2.35	13	0.16	22.93	33	Pass
4	3	1732.5	QPSK	1	HIGH	22.47	24.87	2.40	13	0.16	22.63	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
4	3	1732.5	16QAM	15	LOW	21	26.35	5.35	13	0.16	21.16	33	Pass
4	3	1732.5	16QAM	8	LOW	21.2	25.84	4.64	13	0.16	21.36	33	Pass
4	3	1732.5	16QAM	8	MID	21.2	25.86	4.66	13	0.16	21.36	33	Pass
4	3	1732.5	16QAM	8	HIGH	21	25.55	4.55	13	0.16	21.16	33	Pass
4	3	1732.5	16QAM	1	LOW	22.38	25.77	3.39	13	0.16	22.54	33	Pass
4	3	1732.5	16QAM	1	MID	22.13	25.25	3.12	13	0.16	22.29	33	Pass
4	3	1732.5	16QAM	1	HIGH	21.88	24.98	3.10	13	0.16	22.04	33	Pass
4	3	1753.5	QPSK	15	LOW	20.67	25.56	4.89	13	0.16	20.83	33	Pass
4	3	1753.5	QPSK	8	LOW	20.59	24.78	4.19	13	0.16	20.75	33	Pass
4	3	1753.5	QPSK	8	MID	20.57	24.77	4.20	13	0.16	20.73	33	Pass
4	3	1753.5	QPSK	8	HIGH	20.71	24.96	4.25	13	0.16	20.87	33	Pass
4	3	1753.5	QPSK	1	LOW	21.57	24.29	2.72	13	0.16	21.73	33	Pass
4	3	1753.5	QPSK	1	MID	21.76	24.4	2.64	13	0.16	21.92	33	Pass
4	3	1753.5	QPSK	1	HIGH	21.77	24.63	2.86	13	0.16	21.93	33	Pass
4	3	1753.5	16QAM	15	LOW	19.43	25.28	5.85	13	0.16	19.59	33	Pass
4	3	1753.5	16QAM	8	LOW	19.42	24.49	5.07	13	0.16	19.58	33	Pass
4	3	1753.5	16QAM	8	MID	19.43	24.5	5.07	13	0.16	19.59	33	Pass
4	3	1753.5	16QAM	8	HIGH	19.5	24.68	5.18	13	0.16	19.66	33	Pass
4	3	1753.5	16QAM	1	LOW	20.53	24.06	3.53	13	0.16	20.69	33	Pass
4	3	1753.5	16QAM	1	MID	20.73	24.19	3.46	13	0.16	20.89	33	Pass
4	3	1753.5	16QAM	1	HIGH	20.8	24.42	3.62	13	0.16	20.96	33	Pass
4	5	1712.5	QPSK	25	LOW	20.34	26.67	6.33	13	0.16	20.5	33	Pass
4	5	1712.5	QPSK	12	LOW	20.26	26.07	5.81	13	0.16	20.42	33	Pass
4	5	1712.5	QPSK	12	MID	20.25	26.08	5.83	13	0.16	20.41	33	Pass
4	5	1712.5	QPSK	12	HIGH	20.33	26.3	5.97	13	0.16	20.49	33	Pass
4	5	1712.5	QPSK	1	LOW	21.93	26.79	4.86	13	0.16	22.09	33	Pass
4	5	1712.5	QPSK	1	MID	21.78	27.03	5.25	13	0.16	21.94	33	Pass
4	5	1712.5	QPSK	1	HIGH	21.8	27.2	5.40	13	0.16	21.96	33	Pass
4	5	1712.5	16QAM	25	LOW	19.11	26.11	7	13	0.16	19.27	33	Pass
4	5	1712.5	16QAM	12	LOW	19.07	26.4	7.33	13	0.16	19.23	33	Pass
4	5	1712.5	16QAM	12	MID	19.08	26.37	7.29	13	0.16	19.24	33	Pass
4	5	1712.5	16QAM	12	HIGH	19.16	26.59	7.43	13	0.16	19.32	33	Pass
4	5	1712.5	16QAM	1	LOW	20.56	25.92	5.36	13	0.16	20.72	33	Pass
4	5	1712.5	16QAM	1	MID	20.39	25.94	5.55	13	0.16	20.55	33	Pass
4	5	1712.5	16QAM	1	HIGH	20.63	26.03	5.40	13	0.16	20.79	33	Pass
4	5	1732.5	QPSK	25	LOW	21.85	26.55	4.70	13	0.16	22.01	33	Pass
4	5	1732.5	QPSK	12	LOW	22.09	25.86	3.77	13	0.16	22.25	33	Pass
4	5	1732.5	QPSK	12	MID	22.09	25.85	3.76	13	0.16	22.25	33	Pass
4	5	1732.5	QPSK	12	HIGH	21.68	25.29	3.61	13	0.16	21.84	33	Pass
4	5	1732.5	QPSK	1	LOW	23.24	25.92	2.68	13	0.16	23.4	33	Pass
4	5	1732.5	QPSK	1	MID	22.78	25.11	2.33	13	0.16	22.94	33	Pass

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4	5	1732.5	QPSK	1	HIGH	22.45	24.71	2.26	13	0.16	22.61	33	Pass
4	5	1732.5	16QAM	25	LOW	20.91	26.13	5.22	13	0.16	21.07	33	Pass
4	5	1732.5	16QAM	12	LOW	21.13	25.83	4.70	13	0.16	21.29	33	Pass
4	5	1732.5	16QAM	12	MID	21.14	25.85	4.71	13	0.16	21.3	33	Pass
4	5	1732.5	16QAM	12	HIGH	20.84	25.28	4.44	13	0.16	21	33	Pass
4	5	1732.5	16QAM	1	LOW	22.37	25.9	3.53	13	0.16	22.53	33	Pass
4	5	1732.5	16QAM	1	MID	22.01	25.12	3.11	13	0.16	22.17	33	Pass
4	5	1732.5	16QAM	1	HIGH	21.71	24.69	2.98	13	0.16	21.87	33	Pass
4	5	1752.5	QPSK	25	LOW	20.63	25.47	4.84	13	0.16	20.79	33	Pass
4	5	1752.5	QPSK	12	LOW	20.47	24.37	3.90	13	0.16	20.63	33	Pass
4	5	1752.5	QPSK	12	MID	20.53	24.39	3.86	13	0.16	20.69	33	Pass
4	5	1752.5	QPSK	12	HIGH	20.67	24.73	4.06	13	0.16	20.83	33	Pass
4	5	1752.5	QPSK	1	LOW	21.58	24.08	2.5	13	0.16	21.74	33	Pass
4	5	1752.5	QPSK	1	MID	21.63	24.22	2.59	13	0.16	21.79	33	Pass
4	5	1752.5	QPSK	1	HIGH	21.94	24.59	2.65	13	0.16	22.1	33	Pass
4	5	1752.5	16QAM	25	LOW	19.43	25.32	5.89	13	0.16	19.59	33	Pass
4	5	1752.5	16QAM	12	LOW	19.34	24.36	5.02	13	0.16	19.5	33	Pass
4	5	1752.5	16QAM	12	MID	19.35	24.37	5.02	13	0.16	19.51	33	Pass
4	5	1752.5	16QAM	12	HIGH	19.47	24.54	5.07	13	0.16	19.63	33	Pass
4	5	1752.5	16QAM	1	LOW	20.55	24.06	3.51	13	0.16	20.71	33	Pass
4	5	1752.5	16QAM	1	MID	20.6	24.21	3.61	13	0.16	20.76	33	Pass
4	5	1752.5	16QAM	1	HIGH	20.84	24.58	3.74	13	0.16	21	33	Pass
4	10	1715	QPSK	50	LOW	20.24	26.39	6.15	13	0.16	20.4	33	Pass
4	10	1715	QPSK	25	LOW	19.99	26.56	6.57	13	0.16	20.15	33	Pass
4	10	1715	QPSK	25	MID	20	26.5	6.5	13	0.16	20.16	33	Pass
4	10	1715	QPSK	25	HIGH	20.41	26.54	6.13	13	0.16	20.57	33	Pass
4	10	1715	QPSK	1	LOW	21.71	26.36	4.65	13	0.16	21.87	33	Pass
4	10	1715	QPSK	1	MID	21.49	26.45	4.96	13	0.16	21.65	33	Pass
4	10	1715	QPSK	1	HIGH	22.01	26.46	4.45	13	0.16	22.17	33	Pass
4	10	1715	16QAM	25	LOW	18.76	26.16	7.40	13	0.16	18.92	33	Pass
4	10	1715	16QAM	25	MID	18.72	26.19	7.47	13	0.16	18.88	33	Pass
4	10	1715	16QAM	25	HIGH	19.13	26.08	6.95	13	0.16	19.29	33	Pass
4	10	1715	16QAM	1	LOW	20.52	25.84	5.32	13	0.16	20.68	33	Pass
4	10	1715	16QAM	1	MID	20.21	25.63	5.42	13	0.16	20.37	33	Pass
4	10	1715	16QAM	1	HIGH	20.94	25.74	4.80	13	0.16	21.1	33	Pass
4	10	1732.5	QPSK	50	LOW	21.44	26.27	4.83	13	0.16	21.6	33	Pass
4	10	1732.5	QPSK	25	LOW	21.57	26.39	4.82	13	0.16	21.73	33	Pass
4	10	1732.5	QPSK	25	MID	21.57	26.3	4.73	13	0.16	21.73	33	Pass
4	10	1732.5	QPSK	25	HIGH	21.27	25.23	3.96	13	0.16	21.43	33	Pass
4	10	1732.5	QPSK	1	LOW	22.76	26.52	3.76	13	0.16	22.92	33	Pass
4	10	1732.5	QPSK	1	MID	22.71	25.37	2.66	13	0.16	22.87	33	Pass

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4	10	1732.5	QPSK	1	HIGH	22.15	24.52	2.37	13	0.16	22.31	33	Pass
4	10	1732.5	16QAM	25	LOW	20.61	26.19	5.58	13	0.16	20.77	33	Pass
4	10	1732.5	16QAM	25	MID	20.6	26.19	5.59	13	0.16	20.76	33	Pass
4	10	1732.5	16QAM	25	HIGH	20.4	25.16	4.76	13	0.16	20.56	33	Pass
4	10	1732.5	16QAM	1	LOW	22.04	26.75	4.71	13	0.16	22.2	33	Pass
4	10	1732.5	16QAM	1	MID	22.06	25.51	3.45	13	0.16	22.22	33	Pass
4	10	1732.5	16QAM	1	HIGH	21.44	24.57	3.13	13	0.16	21.6	33	Pass
4	10	1750	QPSK	50	LOW	20.35	25.1	4.75	13	0.16	20.51	33	Pass
4	10	1750	QPSK	25	LOW	20.16	24.31	4.15	13	0.16	20.32	33	Pass
4	10	1750	QPSK	25	MID	20.15	24.28	4.13	13	0.16	20.31	33	Pass
4	10	1750	QPSK	25	HIGH	20.31	24.45	4.14	13	0.16	20.47	33	Pass
4	10	1750	QPSK	1	LOW	21.43	24.16	2.73	13	0.16	21.59	33	Pass
4	10	1750	QPSK	1	MID	21.36	24.05	2.69	13	0.16	21.52	33	Pass
4	10	1750	QPSK	1	HIGH	21.87	24.57	2.70	13	0.16	22.03	33	Pass
4	10	1750	16QAM	25	LOW	19	24.22	5.22	13	0.16	19.16	33	Pass
4	10	1750	16QAM	25	MID	19.04	24.25	5.21	13	0.16	19.2	33	Pass
4	10	1750	16QAM	25	HIGH	19.17	24.41	5.24	13	0.16	19.33	33	Pass
4	10	1750	16QAM	1	LOW	20.46	23.82	3.36	13	0.16	20.62	33	Pass
4	10	1750	16QAM	1	MID	20.35	23.78	3.43	13	0.16	20.51	33	Pass
4	10	1750	16QAM	1	HIGH	20.89	24.38	3.49	13	0.16	21.05	33	Pass
4	15	1717.5	QPSK	75	LOW	20.69	27.37	6.68	13	0.16	20.85	33	Pass
4	15	1717.5	QPSK	38	LOW	20.7	27.39	6.69	13	0.16	20.86	33	Pass
4	15	1717.5	QPSK	38	MID	20.68	27.37	6.69	13	0.16	20.84	33	Pass
4	15	1717.5	QPSK	38	HIGH	20.68	27.31	6.63	13	0.16	20.84	33	Pass
4	15	1717.5	QPSK	1	LOW	21.64	26.37	4.73	13	0.16	21.8	33	Pass
4	15	1717.5	QPSK	1	MID	21.79	26.48	4.69	13	0.16	21.95	33	Pass
4	15	1717.5	QPSK	1	HIGH	22.27	26.3	4.03	13	0.16	22.43	33	Pass
4	15	1717.5	16QAM	1	LOW	21.02	26.65	5.63	13	0.16	21.18	33	Pass
4	15	1717.5	16QAM	1	MID	21.11	26.85	5.74	13	0.16	21.27	33	Pass
4	15	1717.5	16QAM	1	HIGH	21.59	26.73	5.14	13	0.16	21.75	33	Pass
4	15	1732.5	QPSK	75	LOW	21.45	26.62	5.17	13	0.16	21.61	33	Pass
4	15	1732.5	QPSK	38	HIGH	21.45	26.59	5.14	13	0.16	21.61	33	Pass
4	15	1732.5	QPSK	38	MID	21.44	26.57	5.13	13	0.16	21.6	33	Pass
4	15	1732.5	QPSK	1	LOW	22.58	26.95	4.37	13	0.16	22.74	33	Pass
4	15	1732.5	QPSK	1	MID	22.76	25.32	2.56	13	0.16	22.92	33	Pass
4	15	1732.5	QPSK	1	HIGH	21.6	24.23	2.63	13	0.16	21.76	33	Pass
4	15	1732.5	16QAM	1	LOW	21.51	25.5	3.99	13	0.16	21.67	33	Pass
4	15	1732.5	16QAM	1	MID	21.84	25.08	3.24	13	0.16	22	33	Pass
4	15	1732.5	16QAM	1	HIGH	20.64	23.94	3.30	13	0.16	20.8	33	Pass
4	15	1747.5	QPSK	75	LOW	20.39	25.42	5.03	13	0.16	20.55	33	Pass
4	15	1747.5	QPSK	38	LOW	20.39	25.43	5.04	13	0.16	20.55	33	Pass

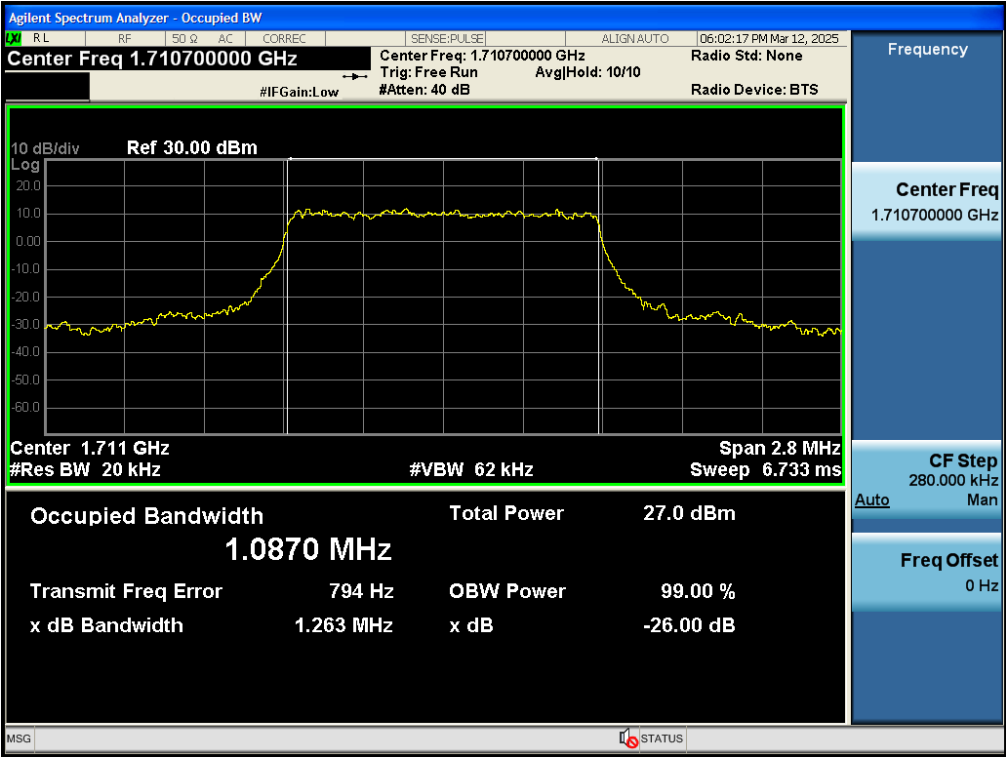
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
4	15	1747.5	QPSK	38	MID	20.37	25.41	5.04	13	0.16	20.53	33	Pass
4	15	1747.5	QPSK	38	HIGH	20.36	25.43	5.07	13	0.16	20.52	33	Pass
4	15	1747.5	QPSK	1	LOW	21.34	23.86	2.52	13	0.16	21.5	33	Pass
4	15	1747.5	QPSK	1	MID	21.39	23.92	2.53	13	0.16	21.55	33	Pass
4	15	1747.5	QPSK	1	HIGH	21.88	24.46	2.58	13	0.16	22.04	33	Pass
4	15	1747.5	16QAM	1	LOW	20.41	23.74	3.33	13	0.16	20.57	33	Pass
4	15	1747.5	16QAM	1	MID	20.49	23.82	3.33	13	0.16	20.65	33	Pass
4	15	1747.5	16QAM	1	HIGH	20.97	24.42	3.45	13	0.16	21.13	33	Pass
4	20	1720	QPSK	100	LOW	21.26	27.2	5.94	13	0.16	21.42	33	Pass
4	20	1720	QPSK	50	LOW	20.4	26.84	6.44	13	0.16	20.56	33	Pass
4	20	1720	QPSK	50	MID	20.41	26.85	6.44	13	0.16	20.57	33	Pass
4	20	1720	QPSK	50	HIGH	21.21	26.42	5.21	13	0.16	21.37	33	Pass
4	20	1720	QPSK	1	LOW	21.8	26.71	4.91	13	0.16	21.96	33	Pass
4	20	1720	QPSK	1	MID	22.16	26.75	4.59	13	0.16	22.32	33	Pass
4	20	1720	QPSK	1	HIGH	23.09	26.49	3.40	13	0.16	23.25	33	Pass
4	20	1720	16QAM	1	LOW	20.87	26.41	5.54	13	0.16	21.03	33	Pass
4	20	1720	16QAM	1	MID	21.33	26.2	4.87	13	0.16	21.49	33	Pass
4	20	1720	16QAM	1	HIGH	22.14	26.32	4.18	13	0.16	22.3	33	Pass
4	20	1732.5	QPSK	100	LOW	21.41	26.48	5.07	13	0.16	21.57	33	Pass
4	20	1732.5	QPSK	50	LOW	21.69	26.6	4.91	13	0.16	21.85	33	Pass
4	20	1732.5	QPSK	50	MID	21.71	26.64	4.93	13	0.16	21.87	33	Pass
4	20	1732.5	QPSK	50	HIGH	20.92	24.61	3.69	13	0.16	21.08	33	Pass
4	20	1732.5	QPSK	1	LOW	22.47	26.72	4.25	13	0.16	22.63	33	Pass
4	20	1732.5	QPSK	1	MID	22.76	25.19	2.43	13	0.16	22.92	33	Pass
4	20	1732.5	QPSK	1	HIGH	21.37	24.04	2.67	13	0.16	21.53	33	Pass
4	20	1732.5	16QAM	1	LOW	21.5	26.58	5.08	13	0.16	21.66	33	Pass
4	20	1732.5	16QAM	1	MID	21.86	25.24	3.38	13	0.16	22.02	33	Pass
4	20	1732.5	16QAM	1	HIGH	20.47	24.01	3.54	13	0.16	20.63	33	Pass
4	20	1745	QPSK	100	LOW	20.36	25.35	4.99	13	0.16	20.52	33	Pass
4	20	1745	QPSK	50	LOW	20.2	24.38	4.18	13	0.16	20.36	33	Pass
4	20	1745	QPSK	50	MID	20.22	24.39	4.17	13	0.16	20.38	33	Pass
4	20	1745	QPSK	50	HIGH	20.44	24.47	4.03	13	0.16	20.6	33	Pass
4	20	1745	QPSK	1	LOW	22.07	24.44	2.37	13	0.16	22.23	33	Pass
4	20	1745	QPSK	1	MID	21.3	24.04	2.74	13	0.16	21.46	33	Pass
4	20	1745	QPSK	1	HIGH	21.88	24.53	2.65	13	0.16	22.04	33	Pass
4	20	1745	16QAM	1	LOW	21.49	24.38	2.89	13	0.16	21.65	33	Pass
4	20	1745	16QAM	1	MID	20.7	23.95	3.25	13	0.16	20.86	33	Pass
4	20	1745	16QAM	1	HIGH	21.17	24.46	3.29	13	0.16	21.33	33	Pass

Appendix B: Occupied bandwidth

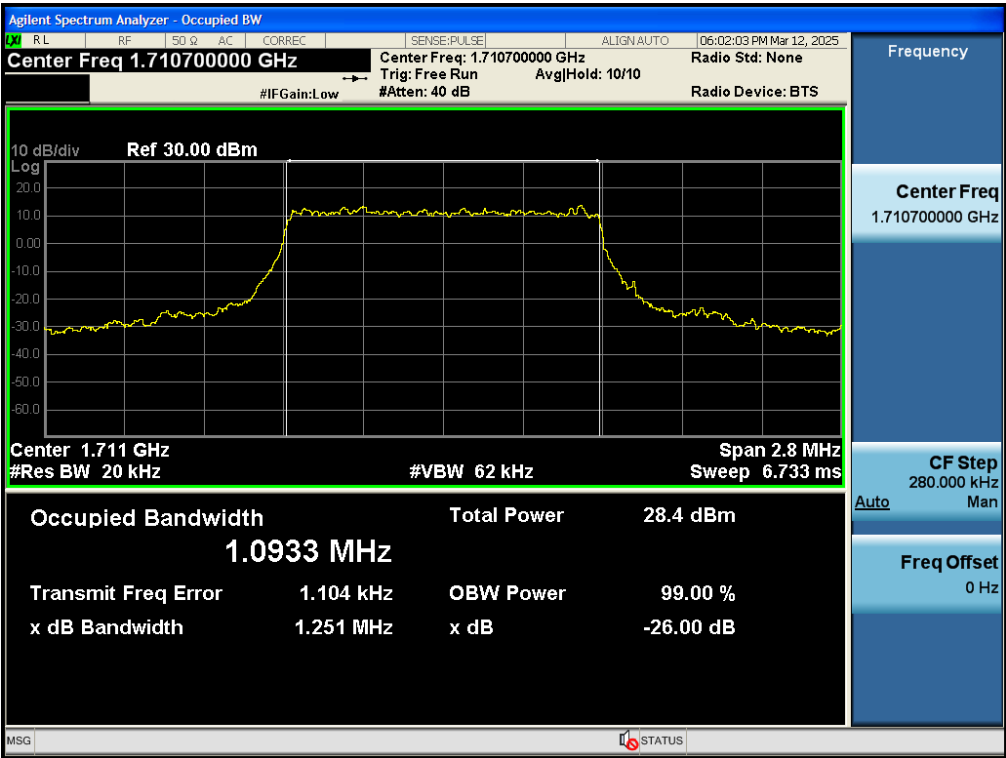
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
4	1.4	1710.7	QPSK	6	LOW	1.093	1.251	No limit
4	1.4	1710.7	16QAM	6	LOW	1.087	1.263	No limit
4	1.4	1732.5	QPSK	6	LOW	1.093	1.621	No limit
4	1.4	1732.5	16QAM	6	LOW	1.095	1.301	No limit
4	1.4	1754.3	QPSK	6	LOW	1.09	1.328	No limit
4	1.4	1754.3	16QAM	6	LOW	1.085	1.289	No limit
4	3	1711.5	QPSK	15	LOW	2.683	2.891	No limit
4	3	1711.5	16QAM	15	LOW	2.682	2.899	No limit
4	3	1732.5	QPSK	15	LOW	2.703	3.388	No limit
4	3	1732.5	16QAM	15	LOW	2.69	2.907	No limit
4	3	1753.5	QPSK	15	LOW	2.693	2.996	No limit
4	3	1753.5	16QAM	15	LOW	2.686	2.913	No limit
4	5	1712.5	QPSK	25	LOW	4.491	4.871	No limit
4	5	1712.5	16QAM	25	LOW	4.472	4.875	No limit
4	5	1732.5	QPSK	25	LOW	4.489	6.539	No limit
4	5	1732.5	16QAM	25	LOW	4.49	5.149	No limit
4	5	1752.5	QPSK	25	LOW	4.476	4.907	No limit
4	5	1752.5	16QAM	25	LOW	4.486	4.947	No limit
4	10	1715	QPSK	50	LOW	8.954	9.578	No limit
4	10	1732.5	QPSK	50	LOW	8.958	10.656	No limit
4	10	1750	QPSK	50	LOW	8.967	9.754	No limit
4	15	1717.5	QPSK	75	LOW	13.462	14.351	No limit
4	15	1732.5	QPSK	75	LOW	13.398	14.485	No limit
4	15	1747.5	QPSK	75	LOW	13.471	15.282	No limit
4	20	1720	QPSK	100	LOW	17.919	19.769	No limit
4	20	1732.5	QPSK	100	LOW	17.85	18.9	No limit
4	20	1745	QPSK	100	LOW	17.907	23.55	No limit

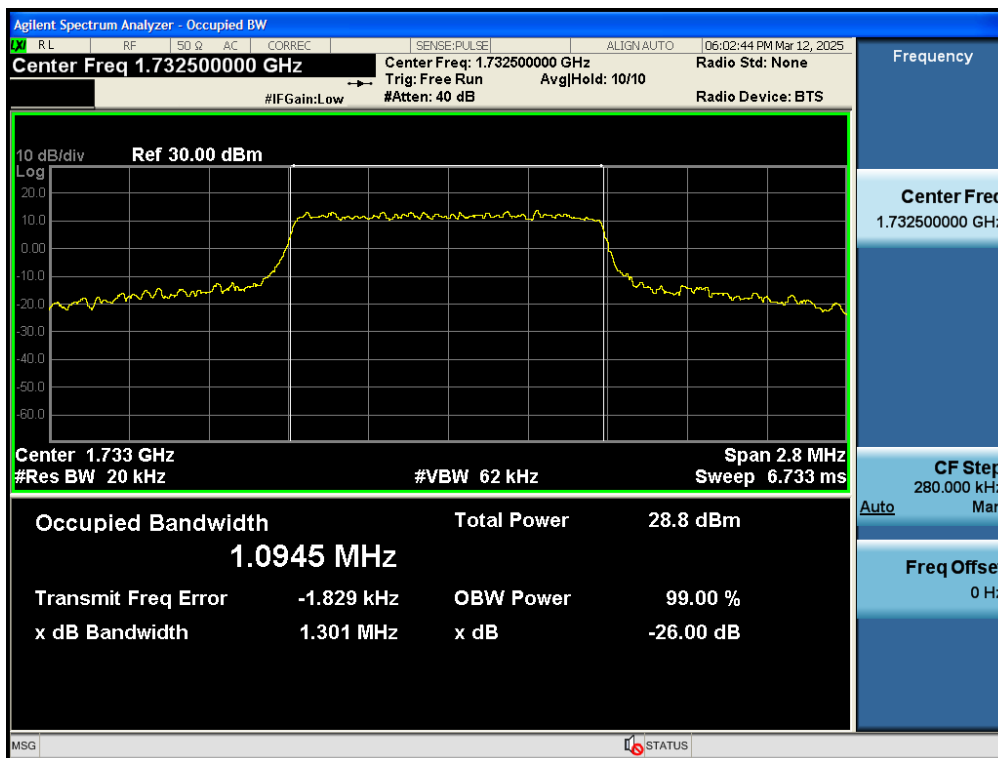
Test Graphs



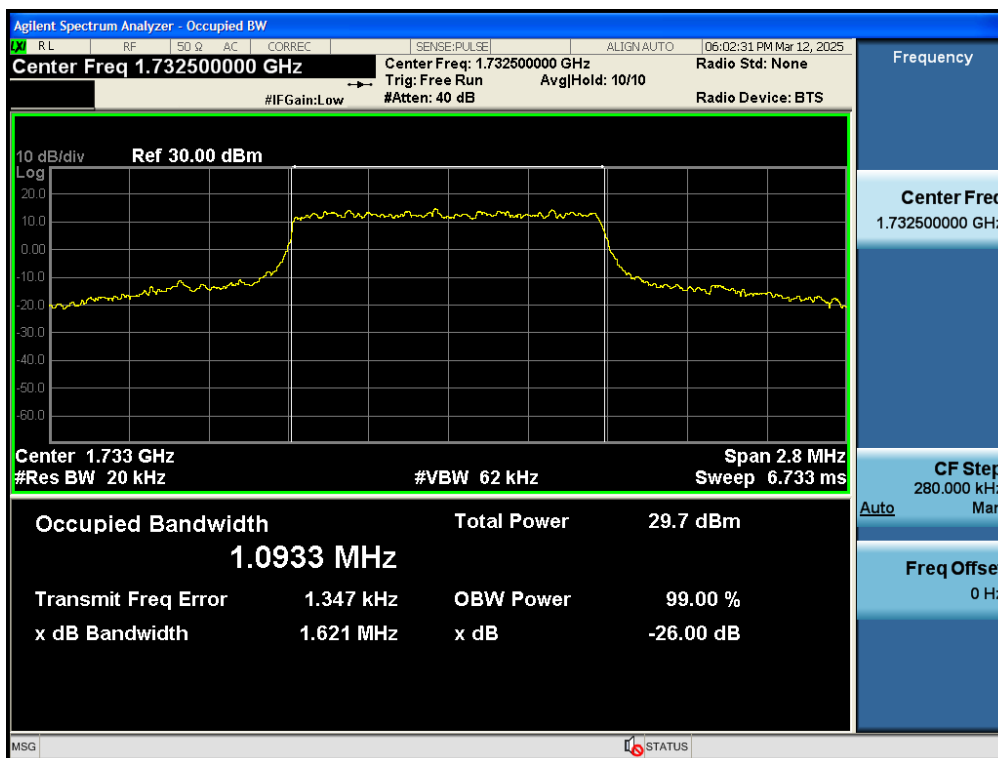
Test_Graph_band4_1710.7MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



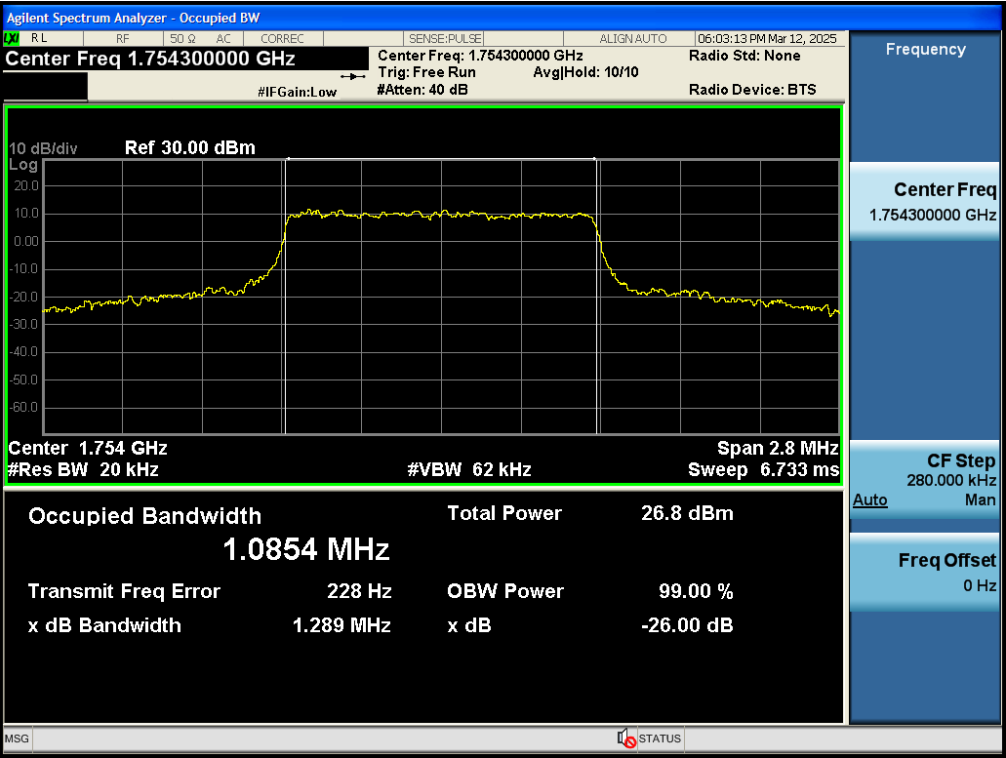
Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_OBW&EBW



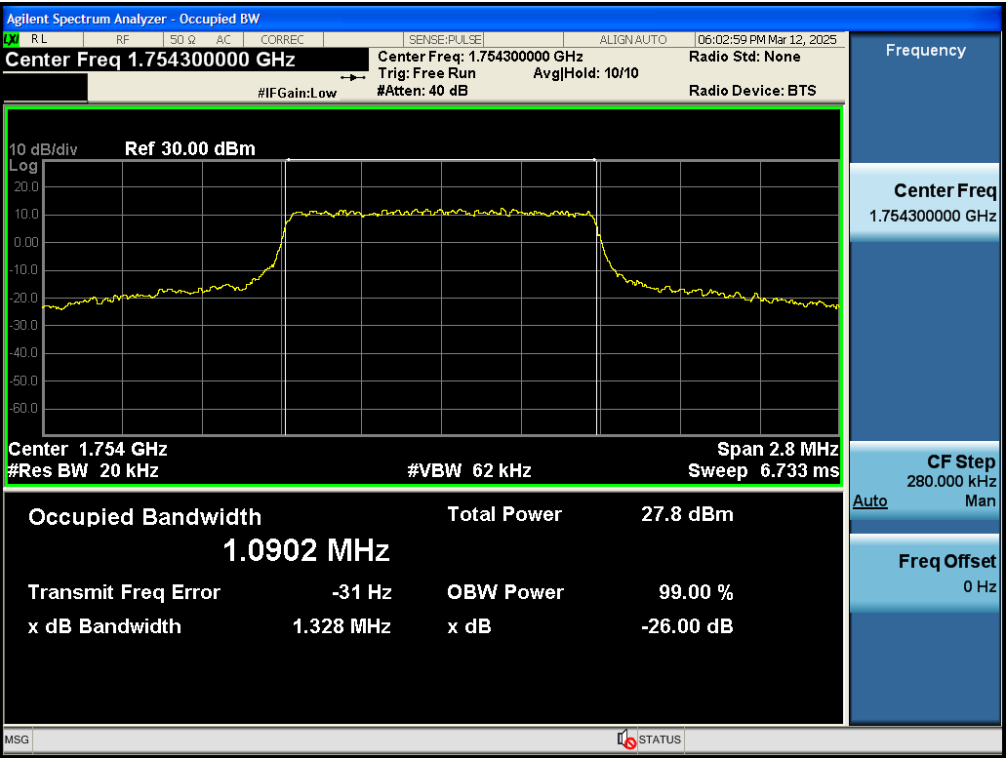
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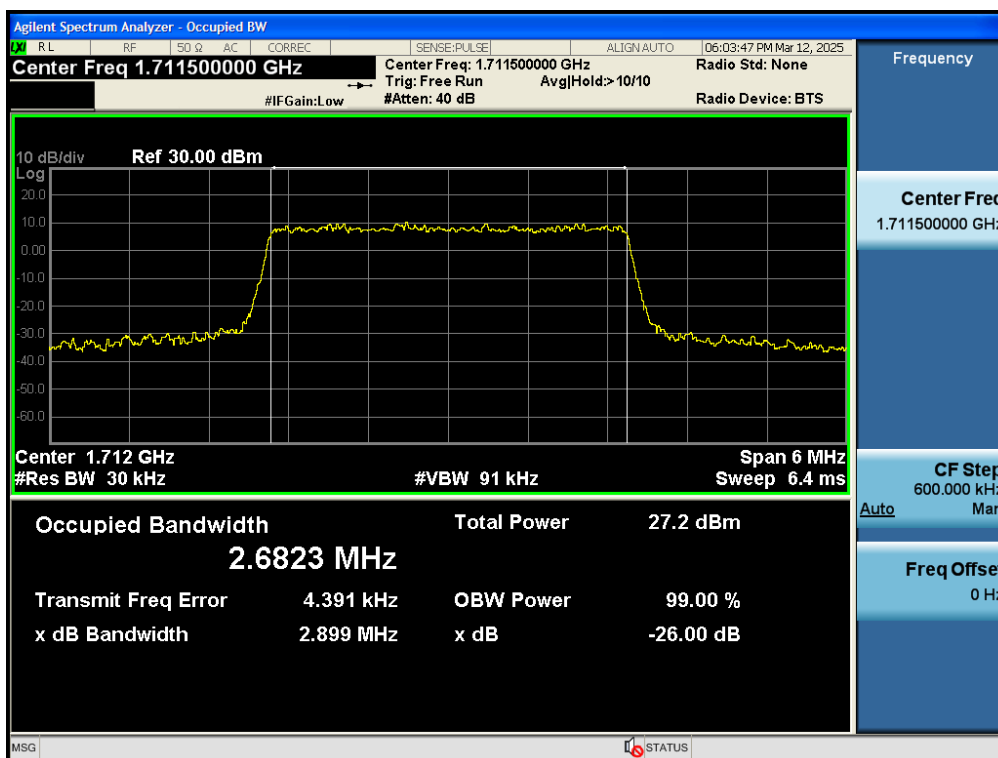
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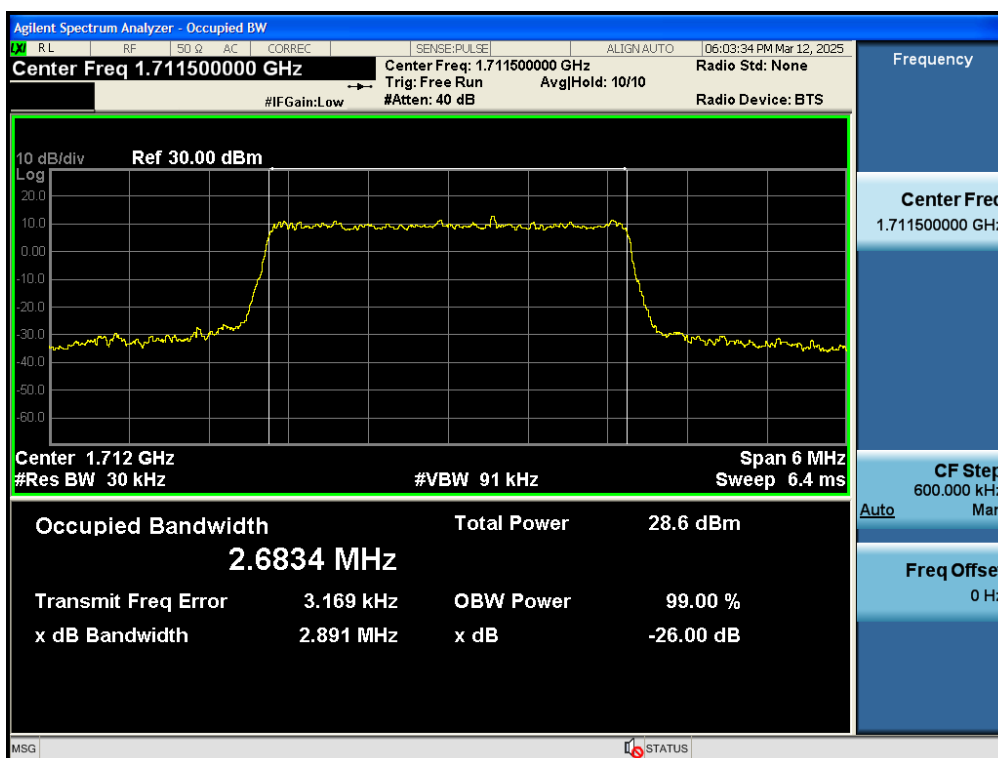
Test_Graph_band4_1754.3MHz_1.4M_16QAM_6RB#LOW_OBW&EBW



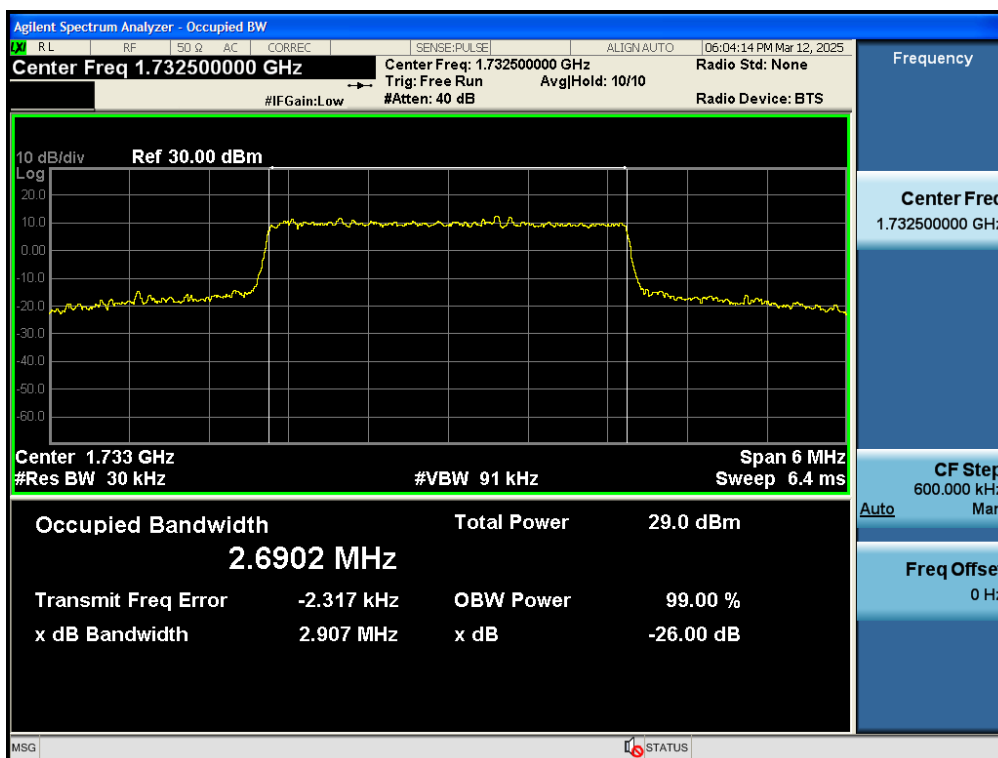
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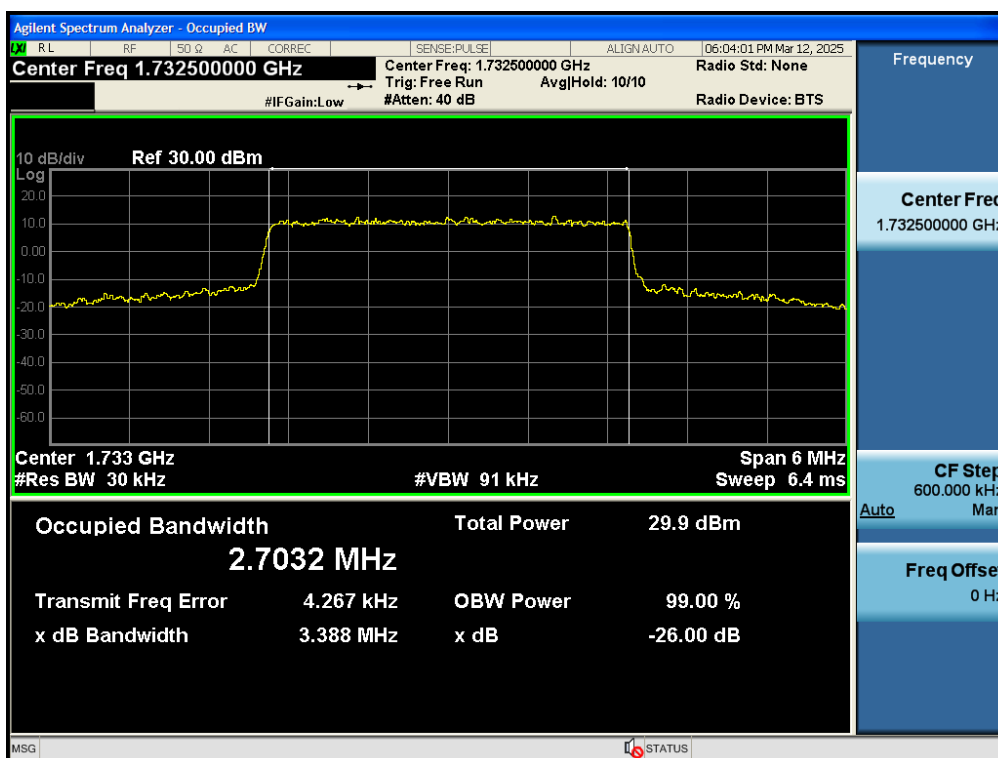
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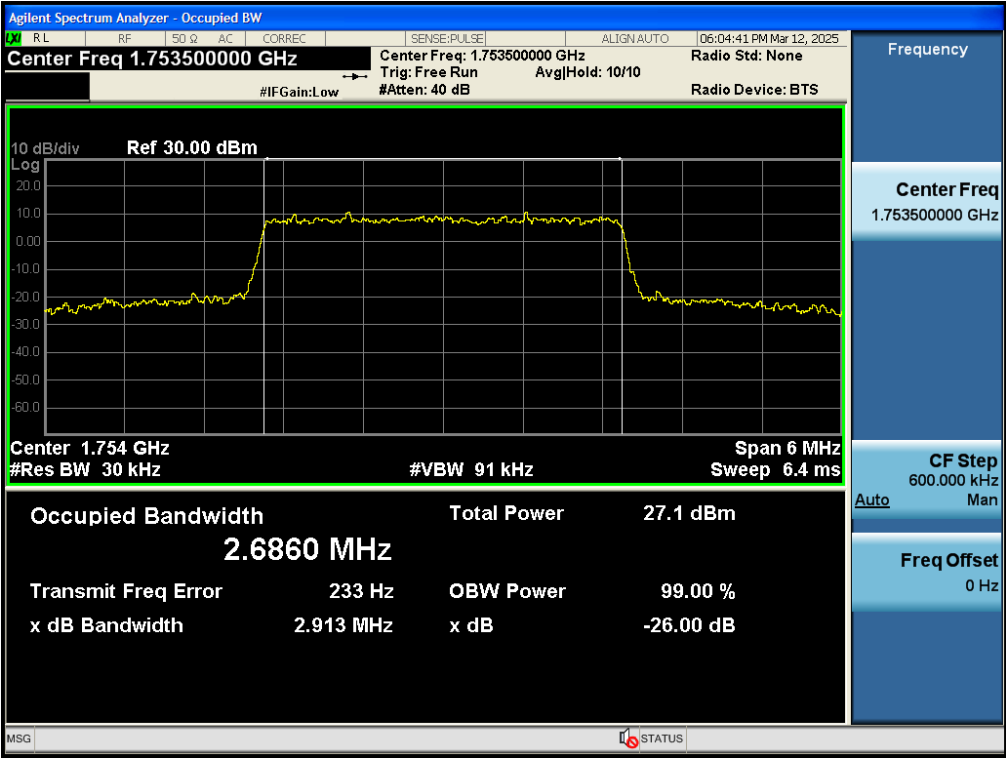
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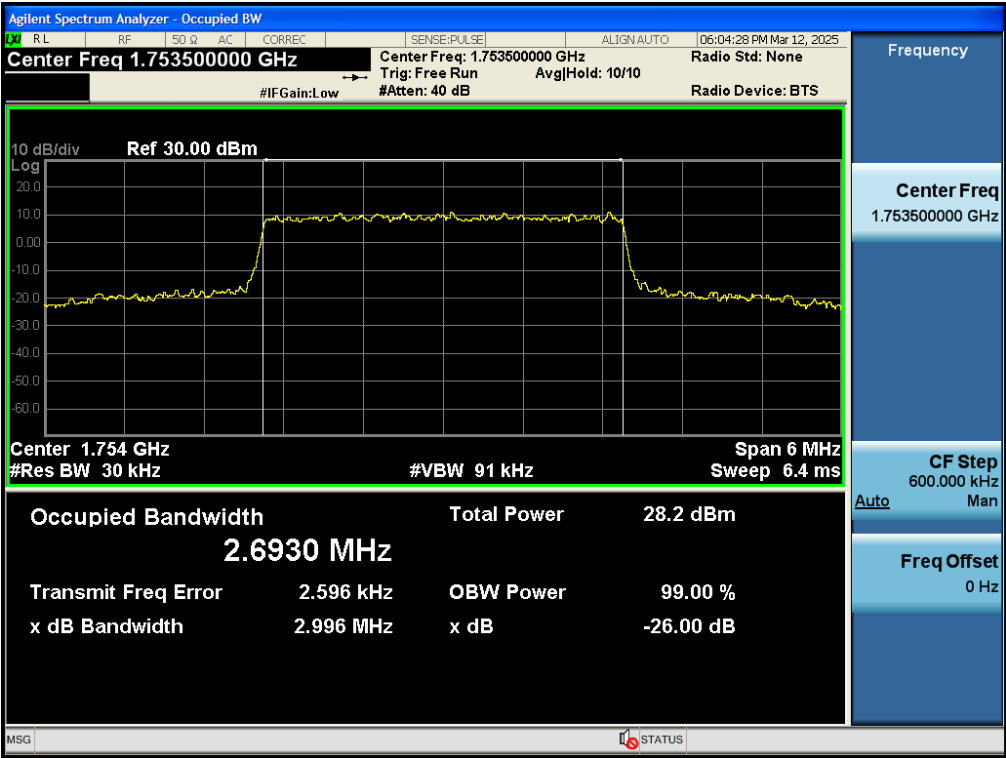
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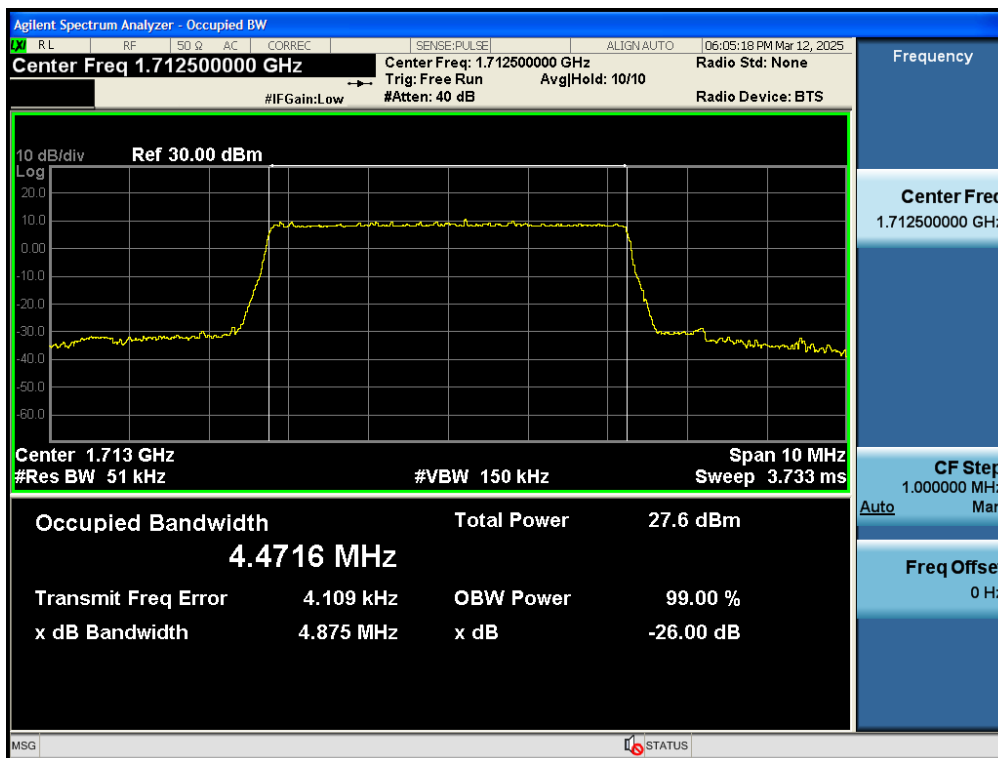
Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_OBW&EBW



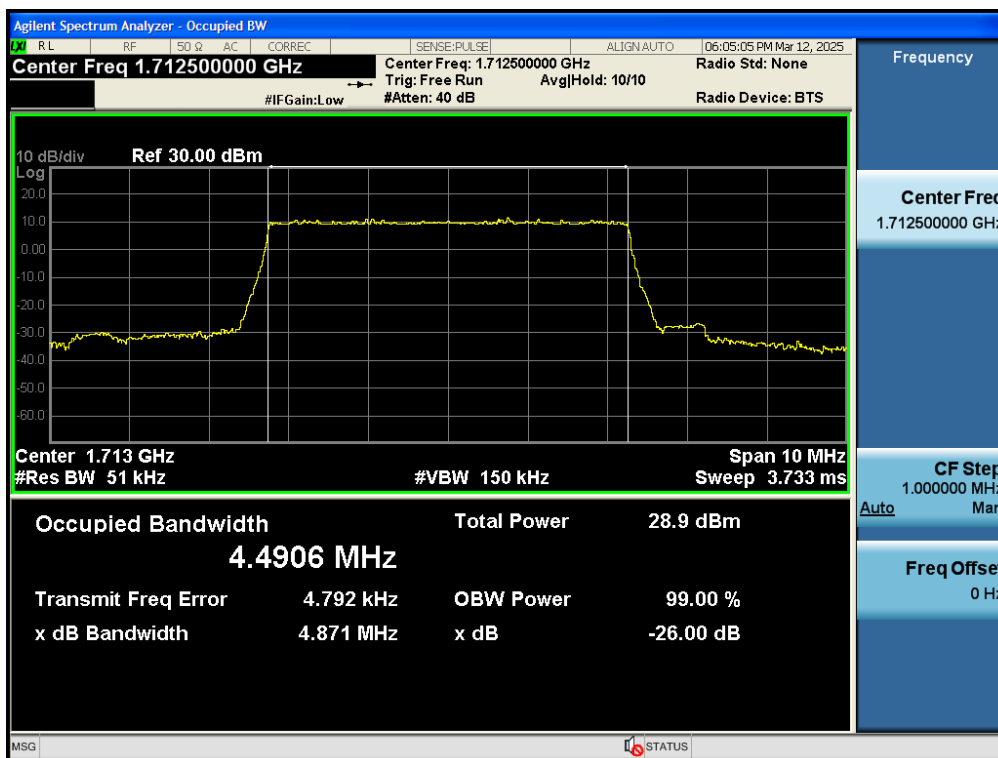
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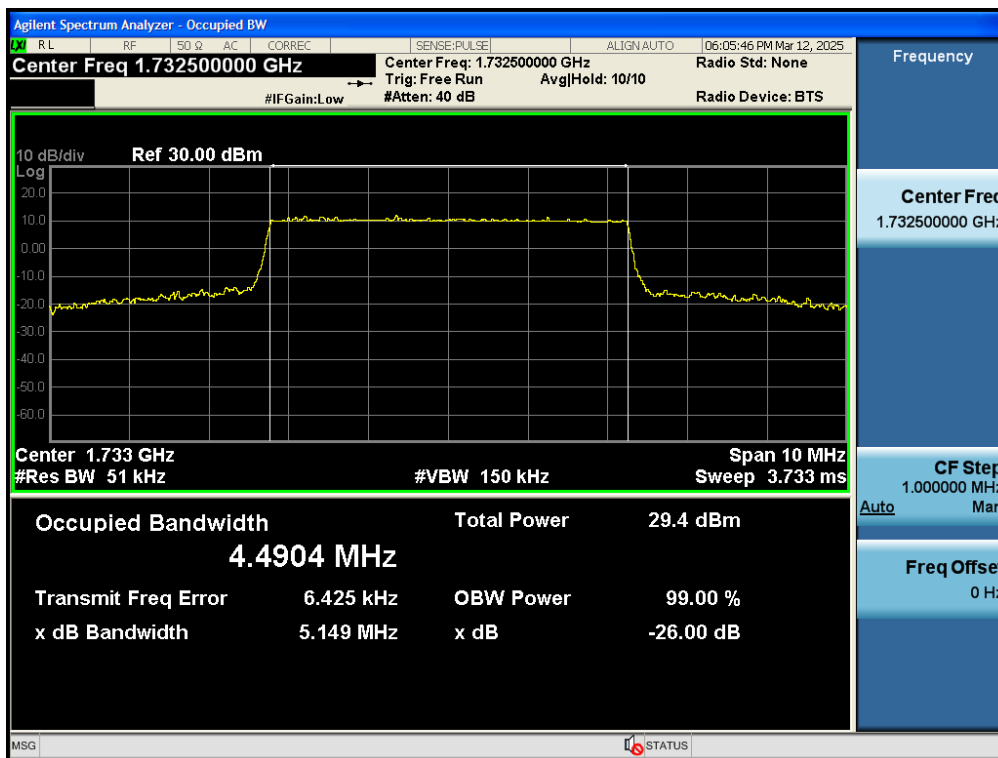
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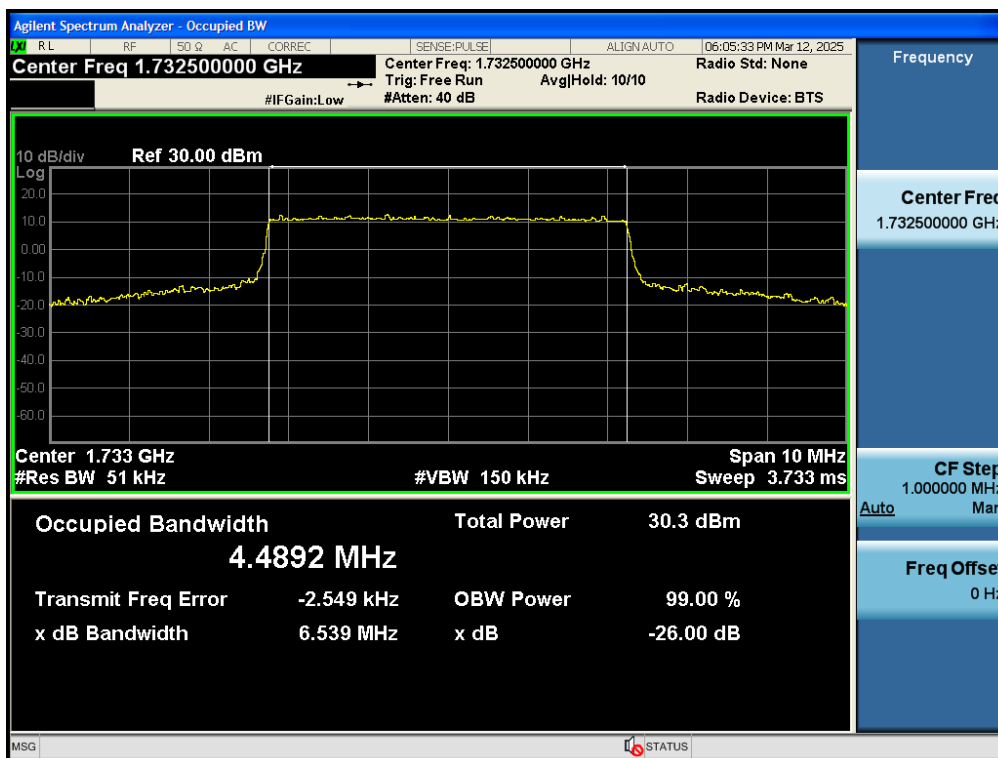
Test_Graph_band4_1712.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



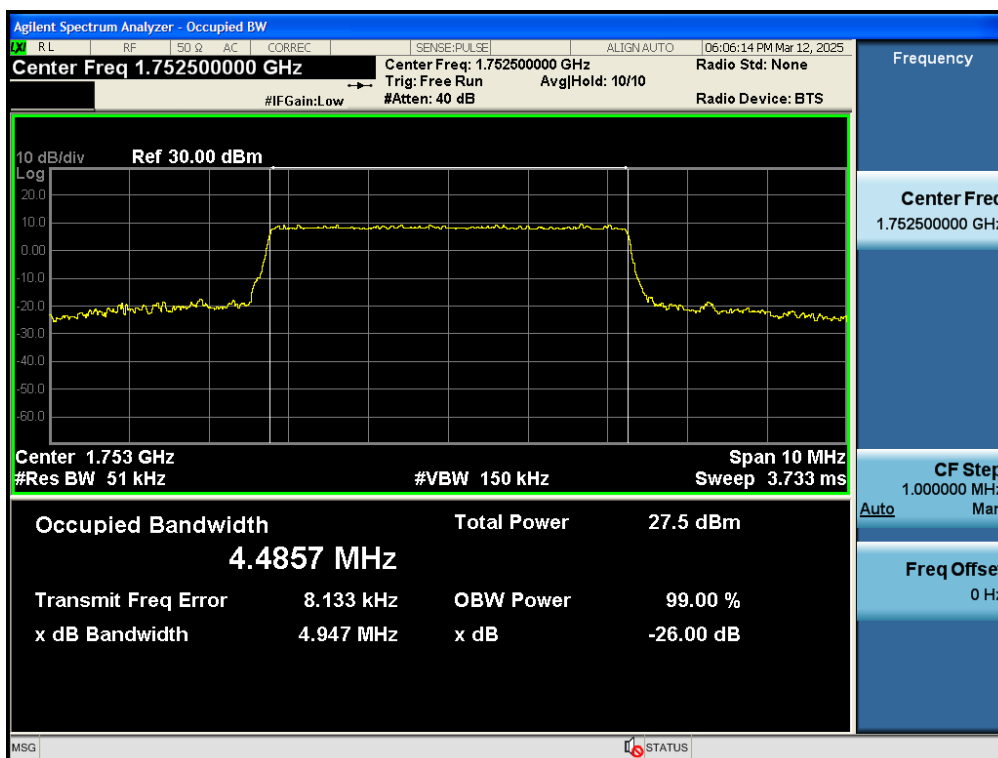
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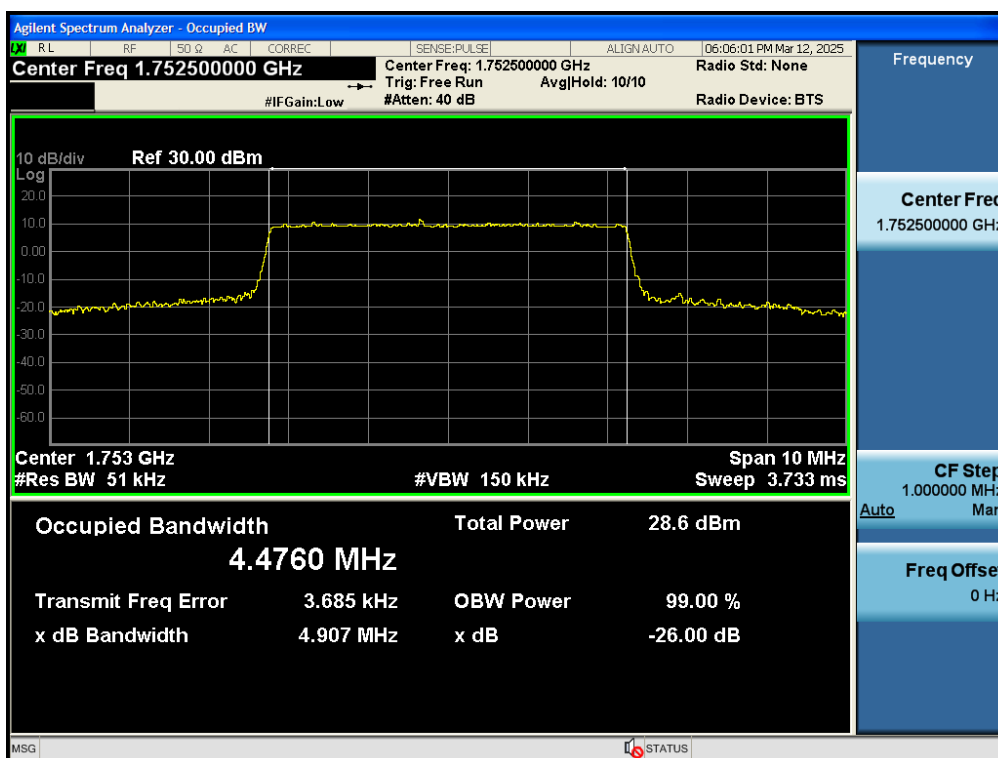
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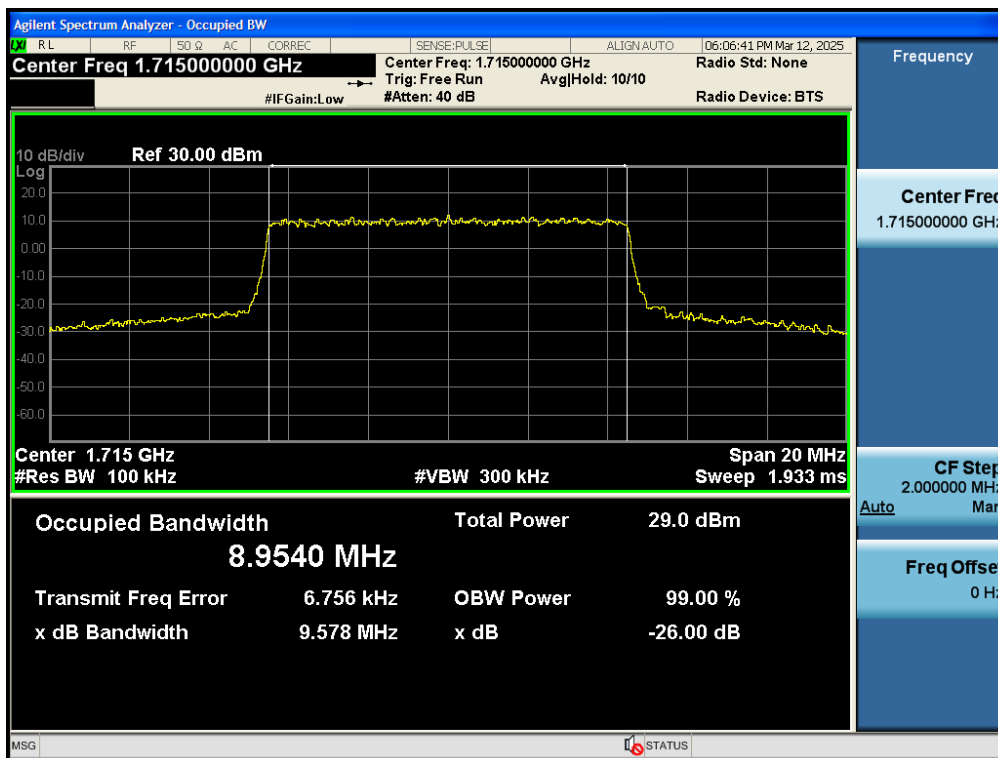
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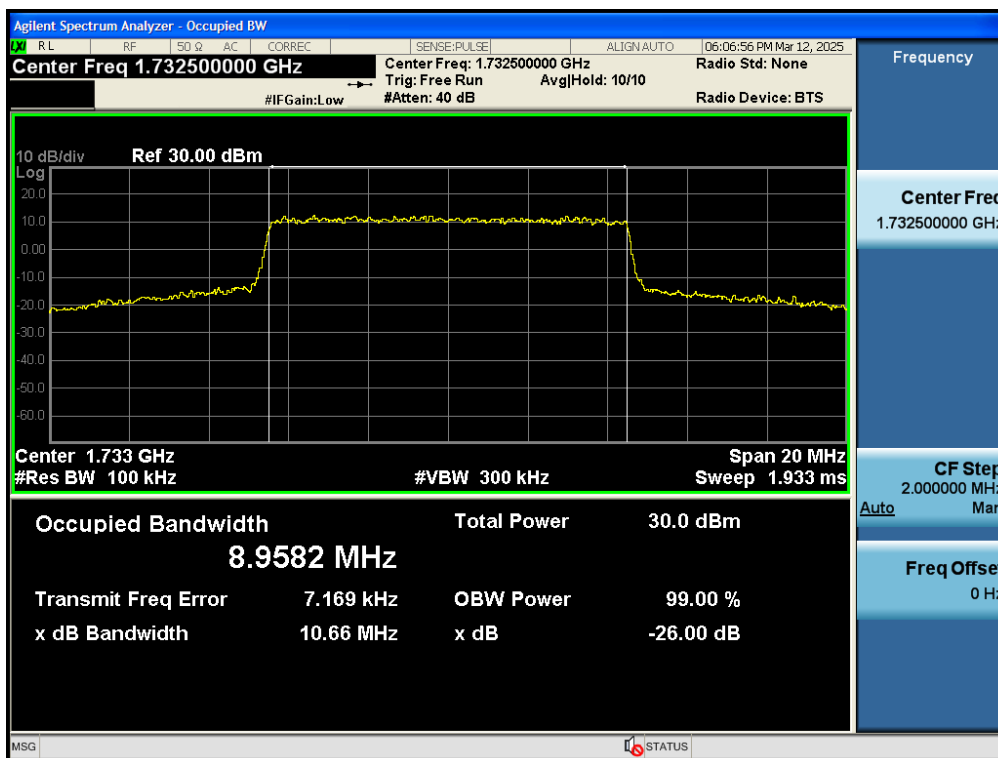
Test_Graph_band4_1752.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



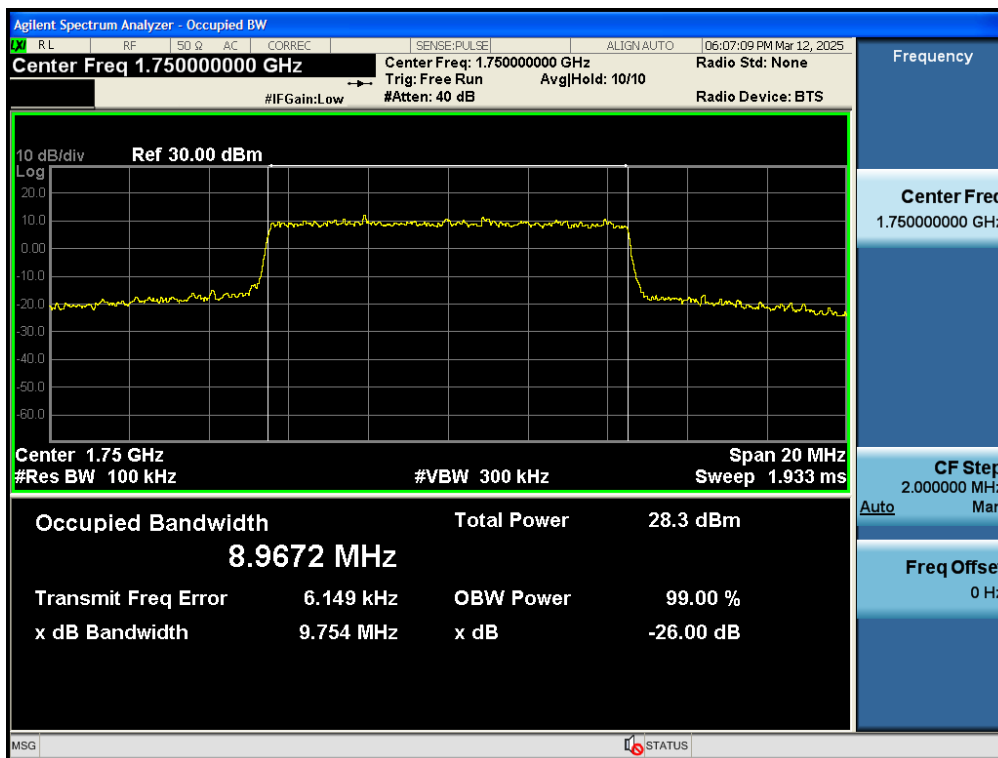
Test_Graph_band4_1752.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



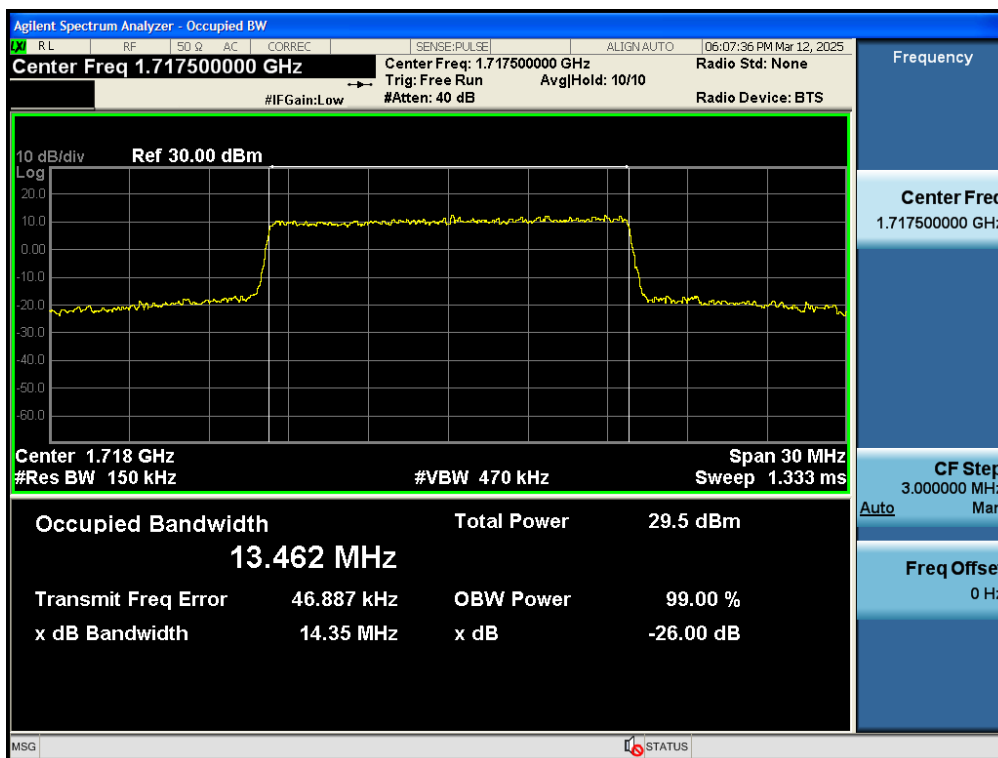
Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_OBW&EBW



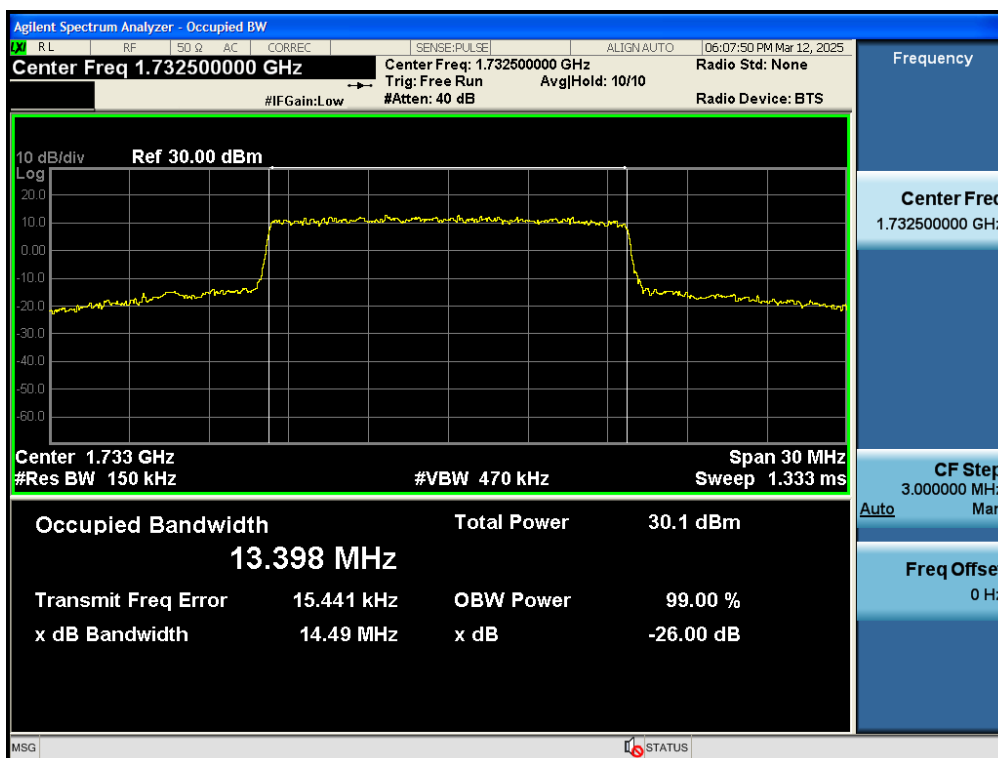
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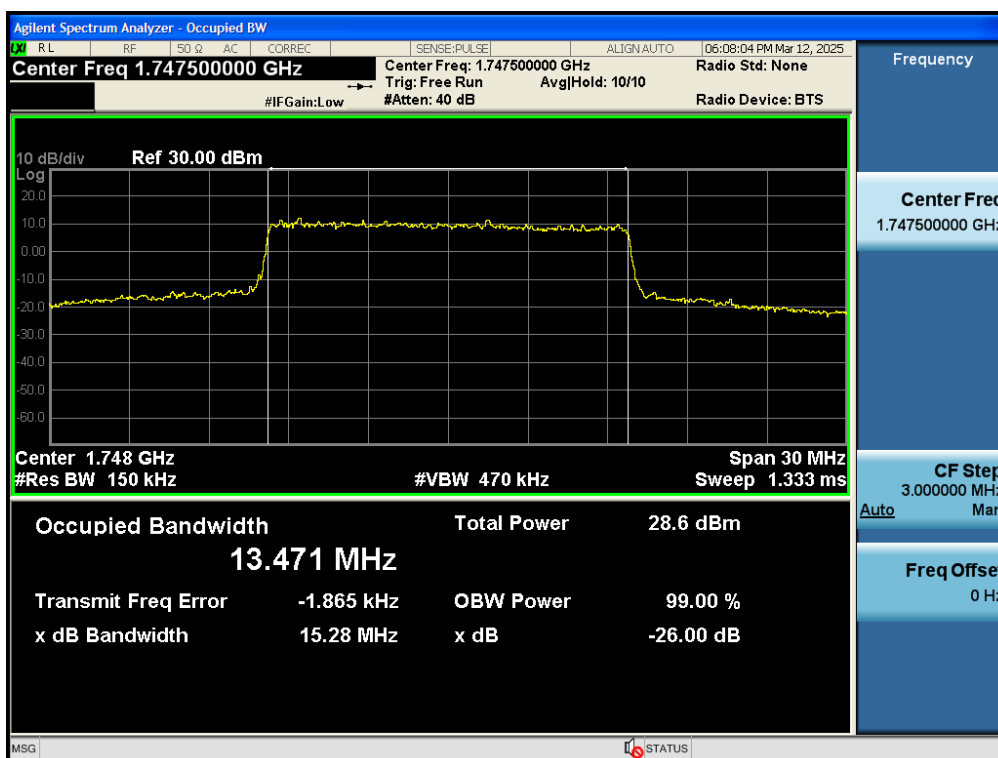
Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_OBW&EBW



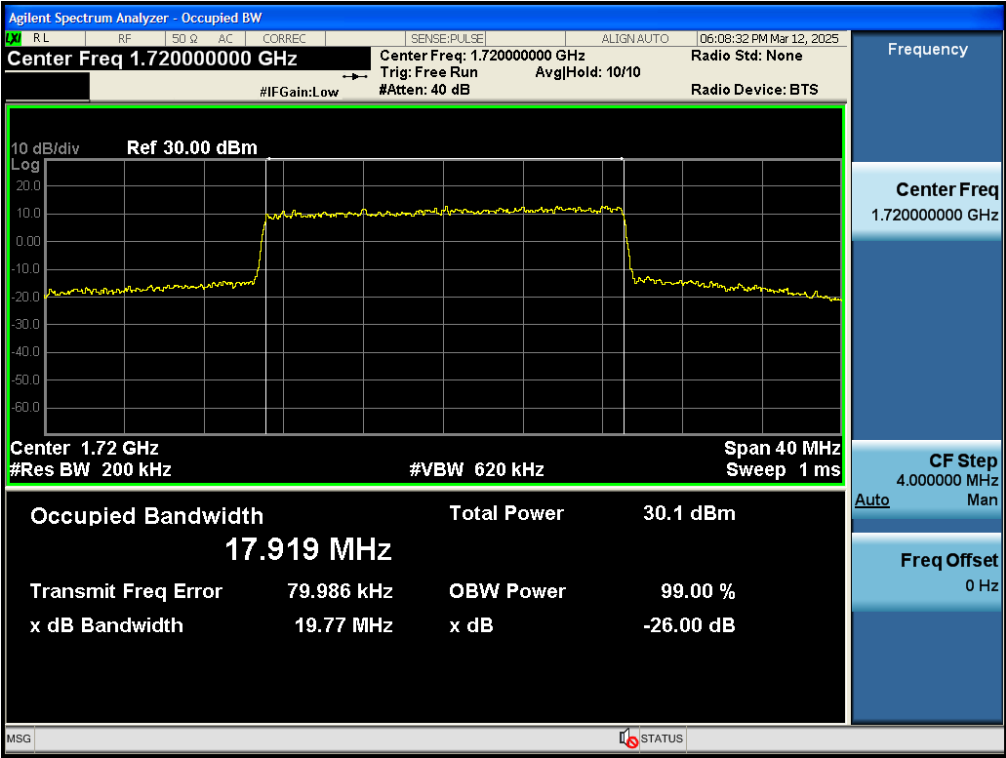
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



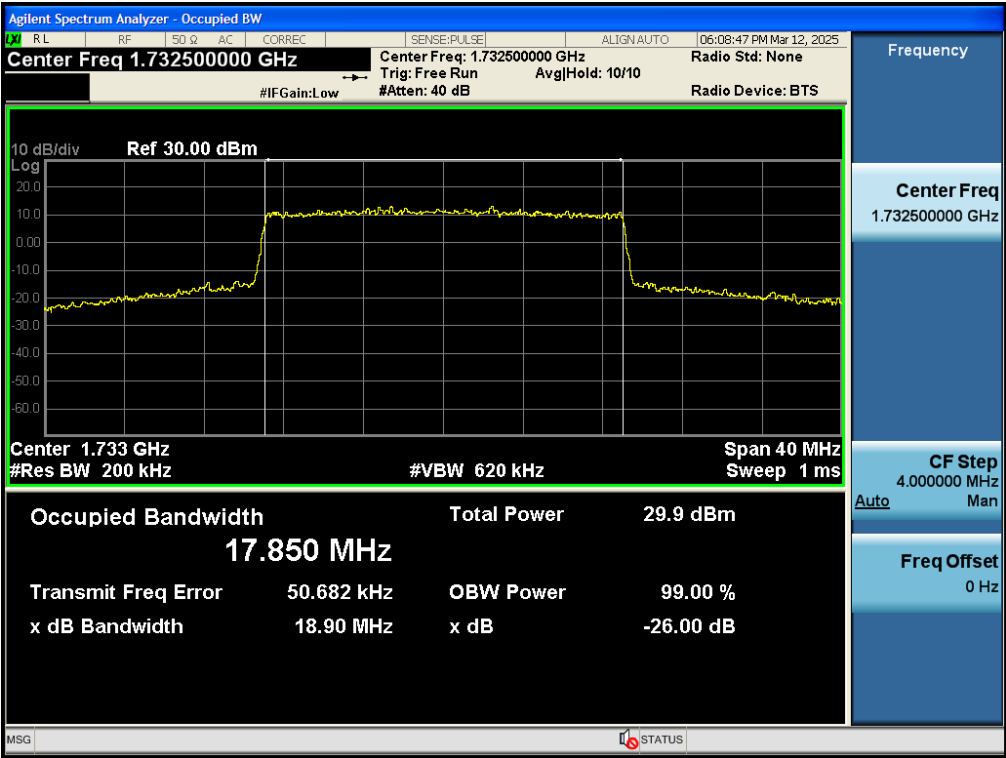
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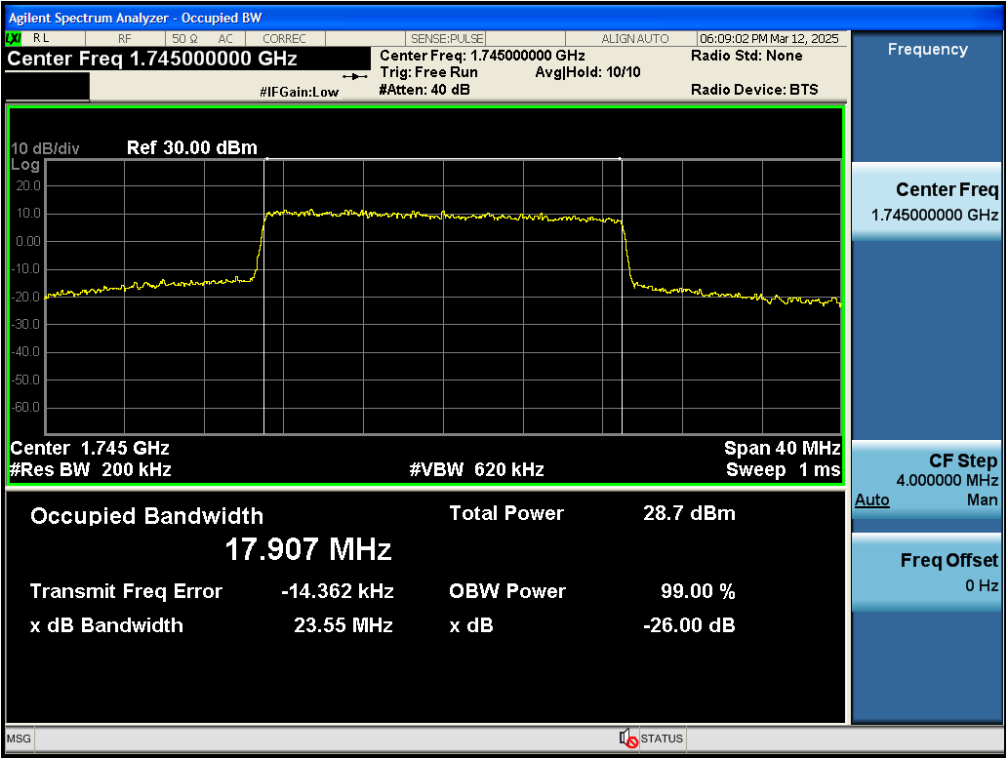
Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_OBW&EBW

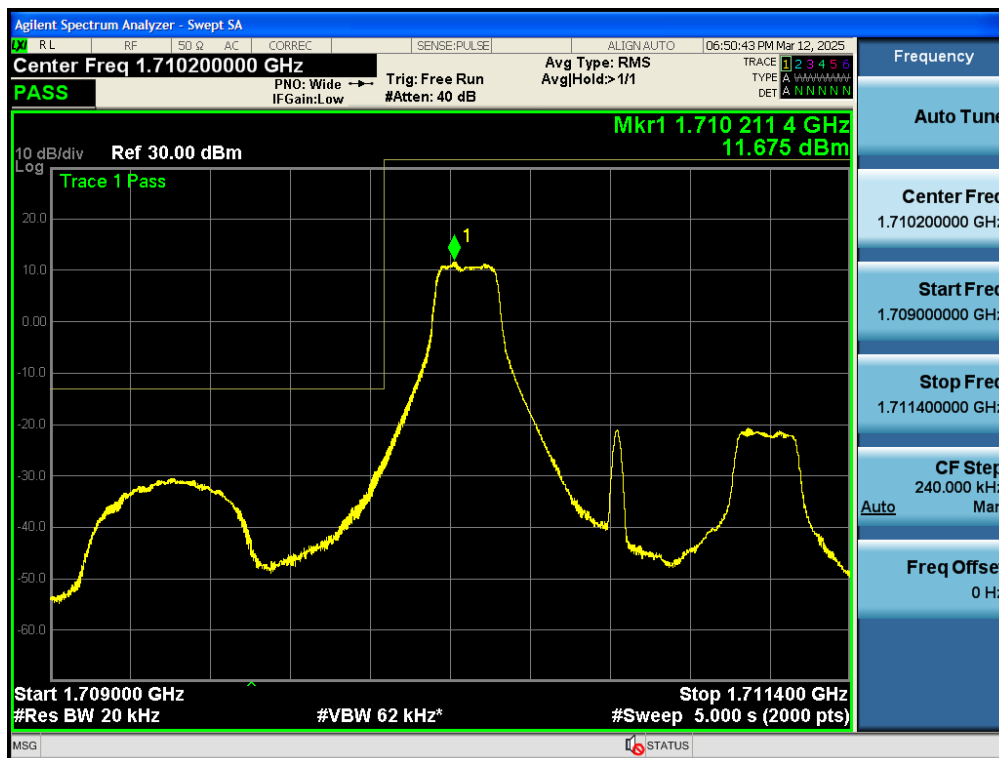
Appendix C: Band edge emissions

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
4	1.4	1710.7	QPSK	1	LOW	Pass
4	1.4	1710.7	QPSK	6	LOW	Pass
4	1.4	1710.7	16QAM	1	LOW	Pass
4	1.4	1710.7	16QAM	6	LOW	Pass
4	1.4	1754.3	QPSK	1	HIGH	Pass
4	1.4	1754.3	QPSK	6	LOW	Pass
4	1.4	1754.3	16QAM	1	HIGH	Pass
4	1.4	1754.3	16QAM	6	LOW	Pass
4	3	1711.5	QPSK	1	LOW	Pass
4	3	1711.5	QPSK	15	LOW	Pass
4	3	1711.5	16QAM	1	LOW	Pass
4	3	1711.5	16QAM	15	LOW	Pass
4	3	1753.5	QPSK	1	HIGH	Pass
4	3	1753.5	QPSK	15	LOW	Pass
4	3	1753.5	16QAM	1	HIGH	Pass
4	3	1753.5	16QAM	15	LOW	Pass
4	5	1712.5	QPSK	1	LOW	Pass
4	5	1712.5	QPSK	25	LOW	Pass
4	5	1712.5	16QAM	1	LOW	Pass
4	5	1712.5	16QAM	25	LOW	Pass
4	5	1752.5	QPSK	1	HIGH	Pass
4	5	1752.5	QPSK	25	LOW	Pass
4	5	1752.5	16QAM	1	HIGH	Pass
4	5	1752.5	16QAM	25	LOW	Pass
4	10	1715	QPSK	1	LOW	Pass
4	10	1715	QPSK	50	LOW	Pass
4	10	1715	16QAM	1	LOW	Pass
4	10	1750	QPSK	1	HIGH	Pass
4	10	1750	QPSK	50	LOW	Pass
4	10	1750	16QAM	1	HIGH	Pass
4	15	1717.5	QPSK	1	LOW	Pass
4	15	1717.5	QPSK	75	LOW	Pass
4	15	1717.5	16QAM	1	LOW	Pass
4	15	1747.5	QPSK	1	HIGH	Pass
4	15	1747.5	QPSK	75	LOW	Pass
4	15	1747.5	16QAM	1	HIGH	Pass
4	20	1720	QPSK	1	LOW	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
4	20	1720	QPSK	100	LOW	Pass
4	20	1720	16QAM	1	LOW	Pass
4	20	1745	QPSK	1	HIGH	Pass
4	20	1745	QPSK	100	LOW	Pass
4	20	1745	16QAM	1	HIGH	Pass

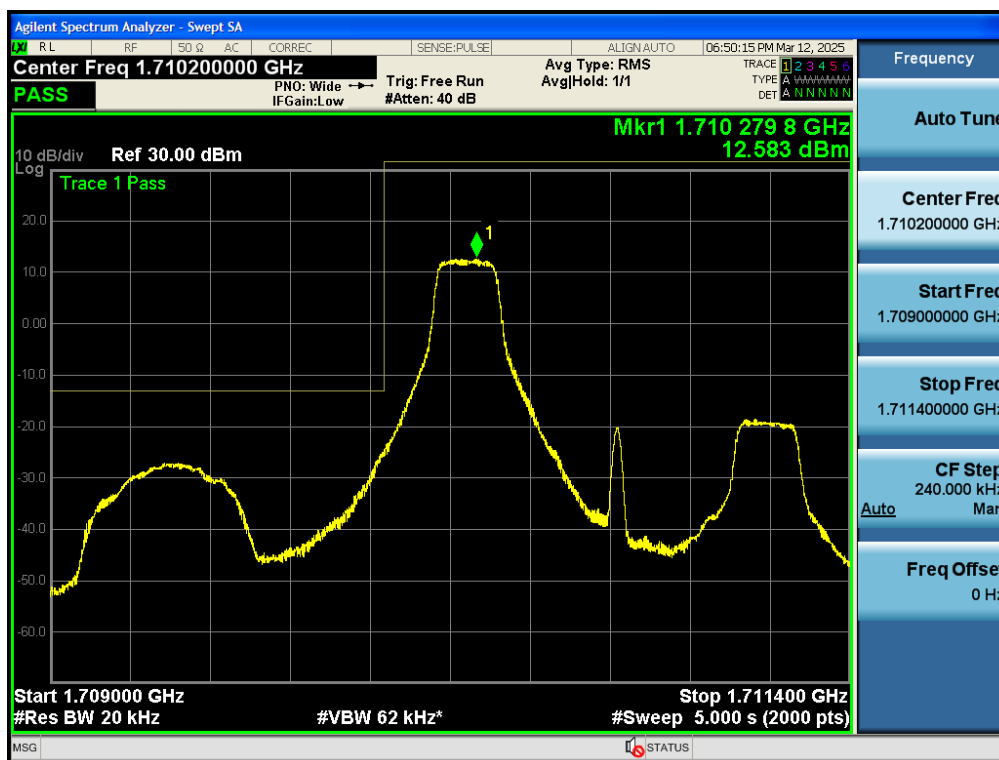
Test Graphs



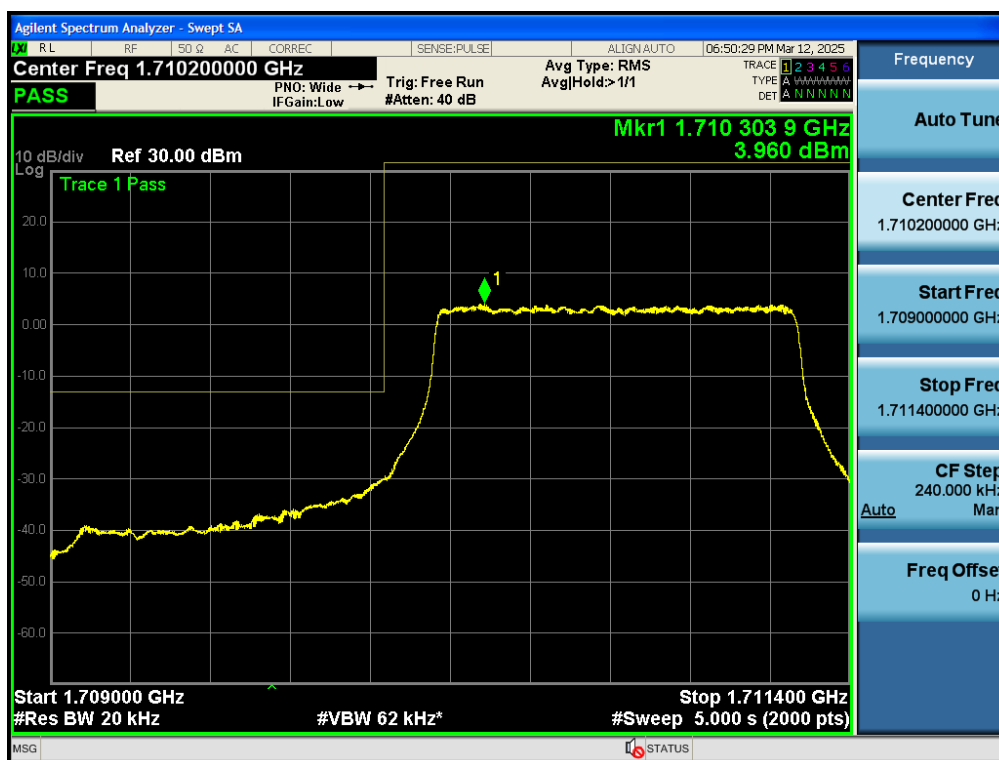
Test_Graph_band4_1710.7MHz_1.4M_16QAM_1RB#LOW_Band edge



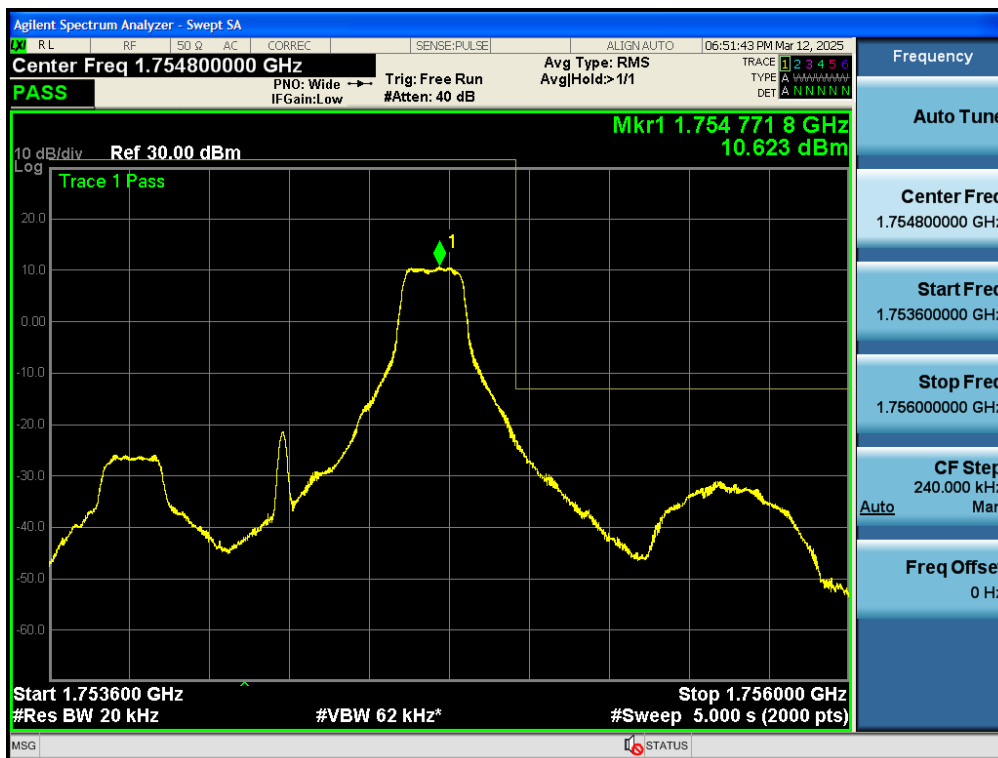
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Test_Graph_band4_1710.7MHz_1.4M_QPSK_1RB#LOW_Band edge



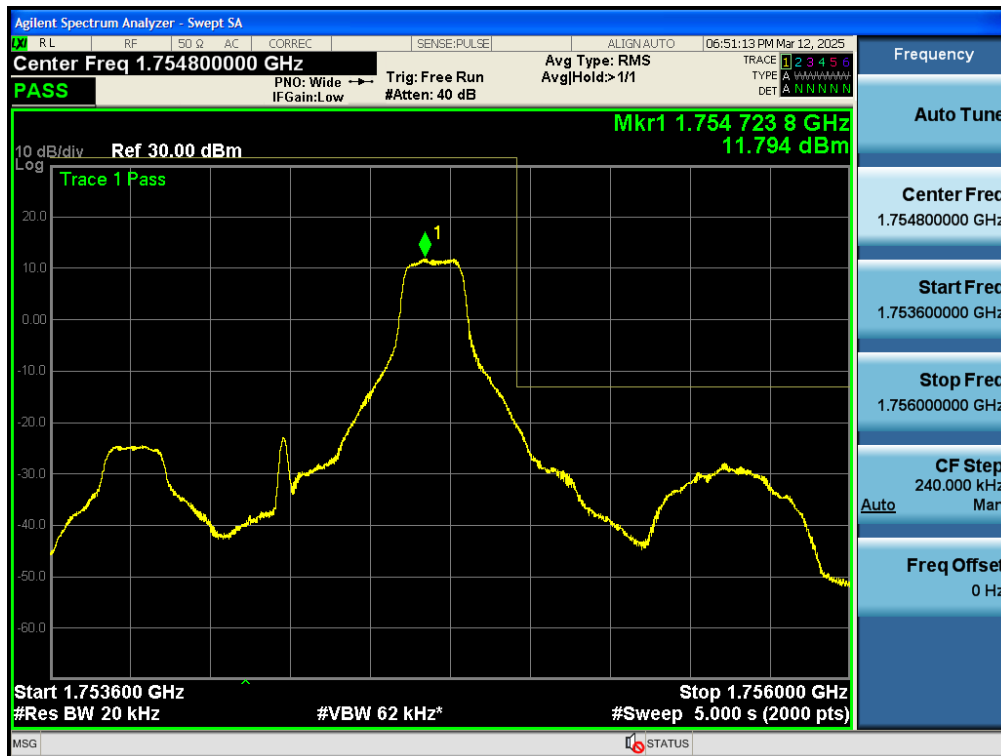
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Test_Graph_band4_1754.3MHz_1.4M_16QAM_1RB#HIGH_Band edge



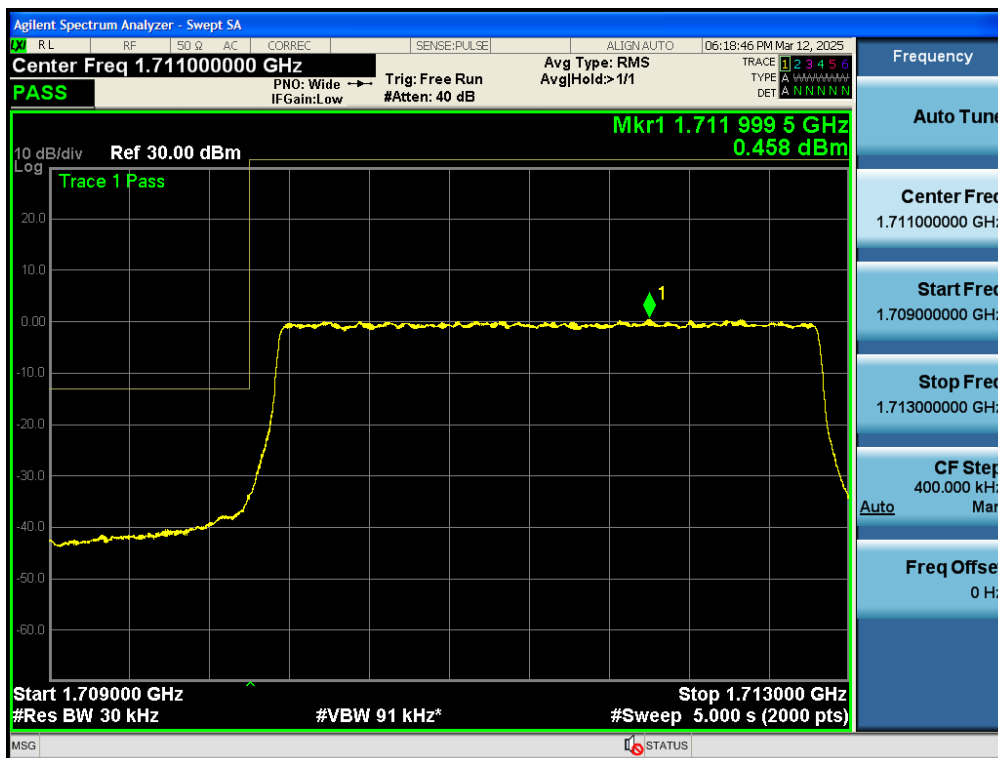
Test_Graph_band4_1754.3MHz_1.4M_16QAM_6RB#LOW_Band edge



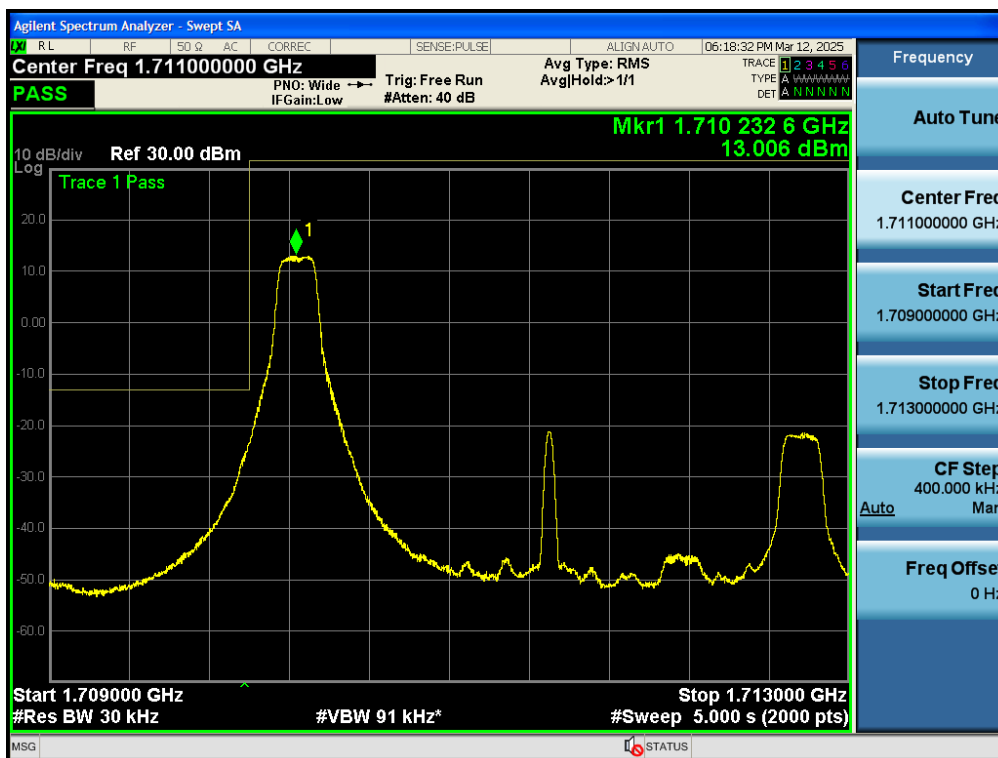
Test_Graph_band4_1754.3MHz_1.4M_QPSK_1RB#HIGH_Band edge



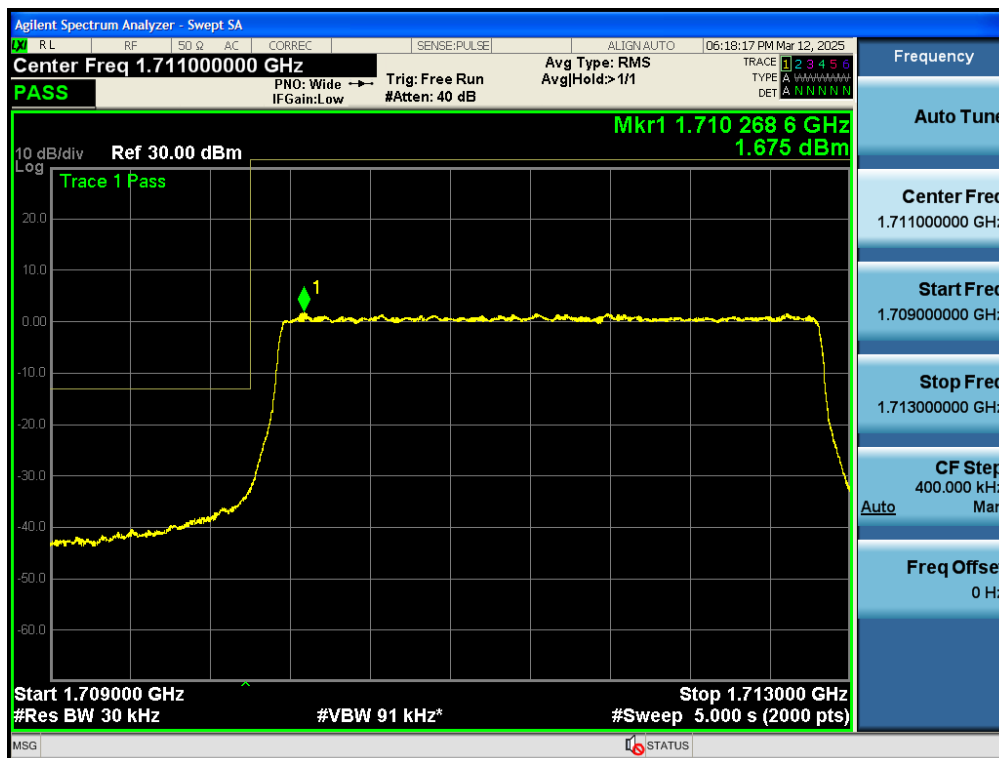
Test_Graph_band4_1754.3MHz_1.4M_QPSK_6RB#LOW_Band edge



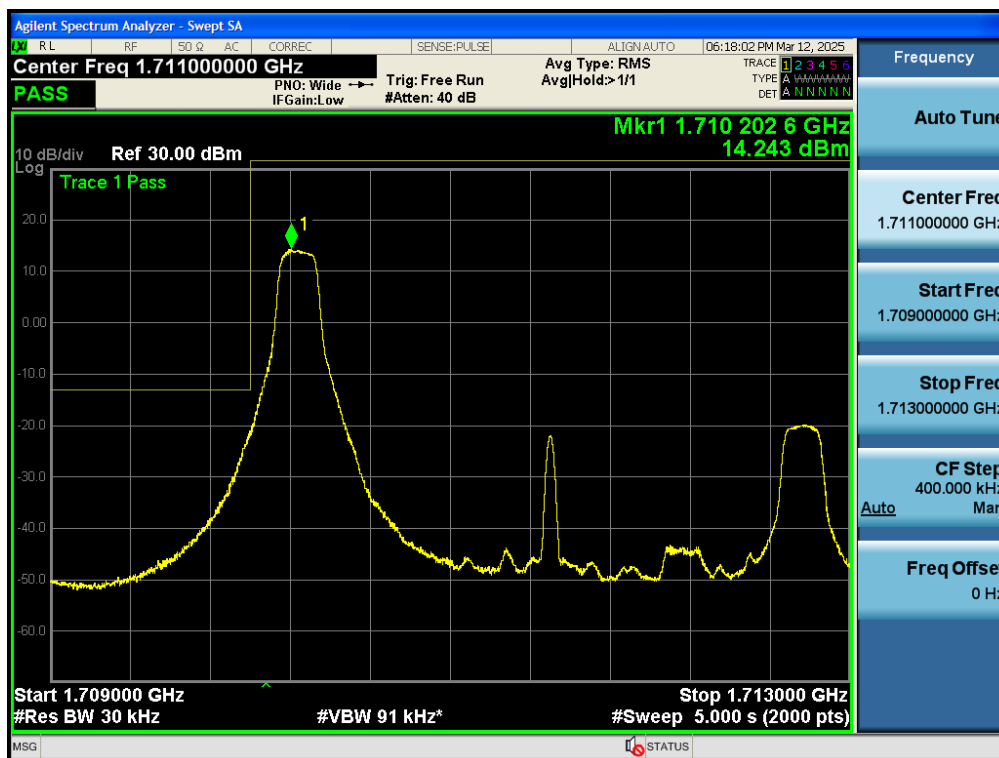
Test_Graph_band4_1711.5MHz_3M_16QAM_15RB#LOW_Band edge



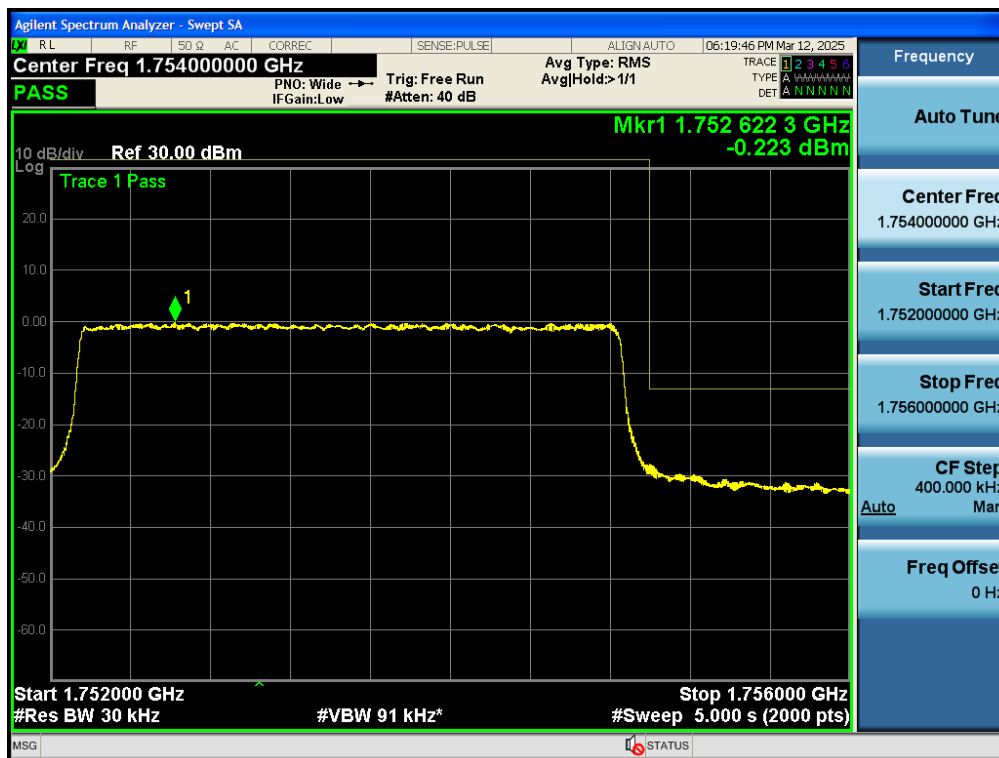
Test_Graph_band4_1711.5MHz_3M_16QAM_1RB#LOW_Band edge



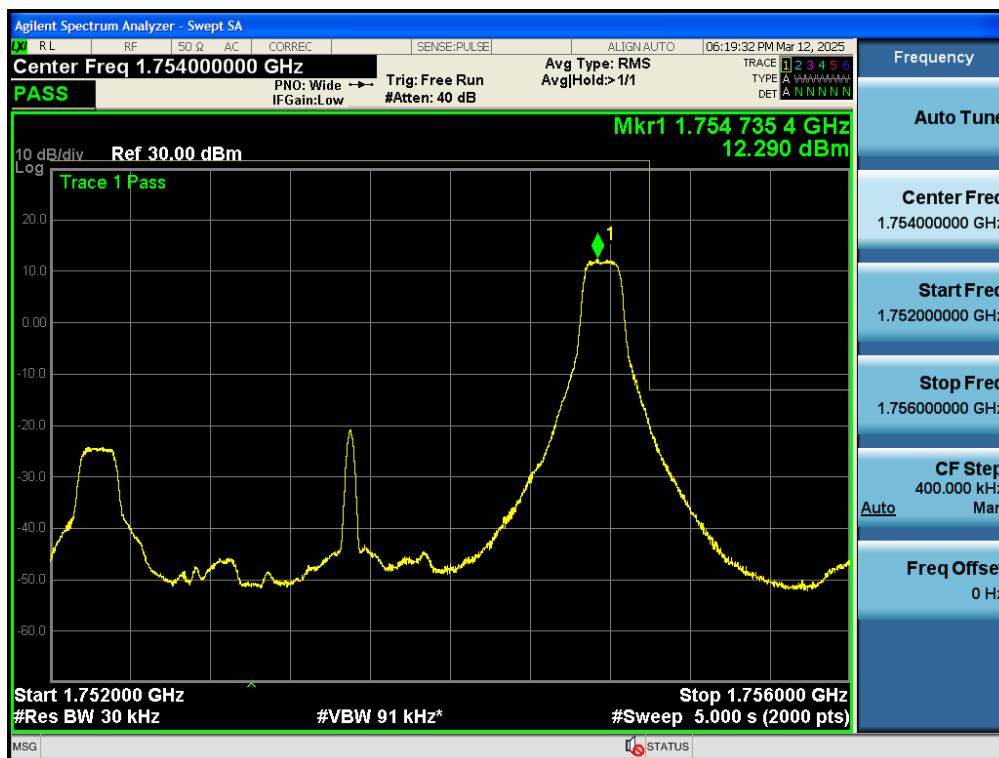
Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band4_1711.5MHz_3M_QPSK_1RB#LOW_Band edge



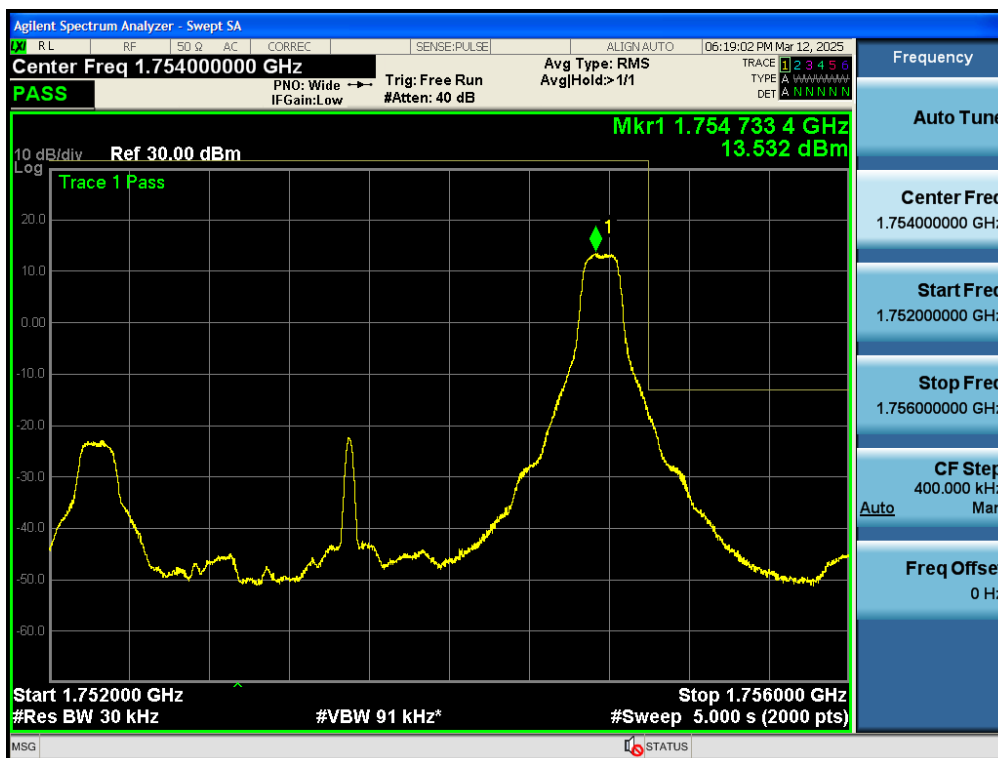
Test_Graph_band4_1753.5MHz_3M_16QAM_15RB#LOW_Band edge



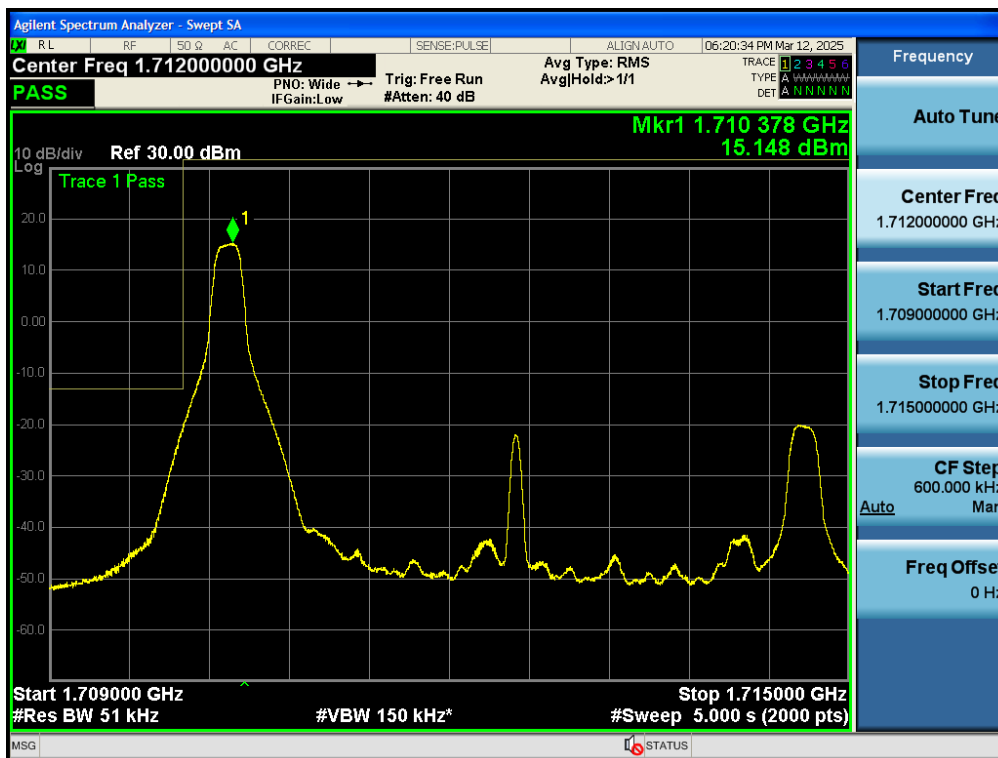
Test_Graph_band4_1753.5MHz_3M_16QAM_1RB#HIGH_Band edge



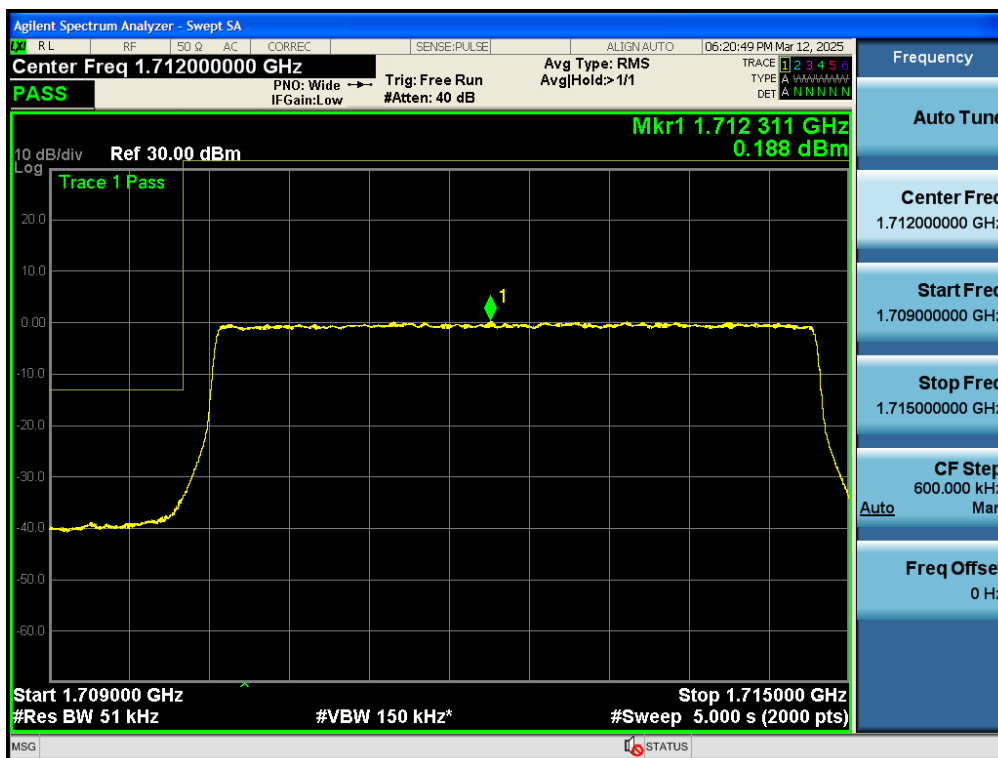
Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_Band edge



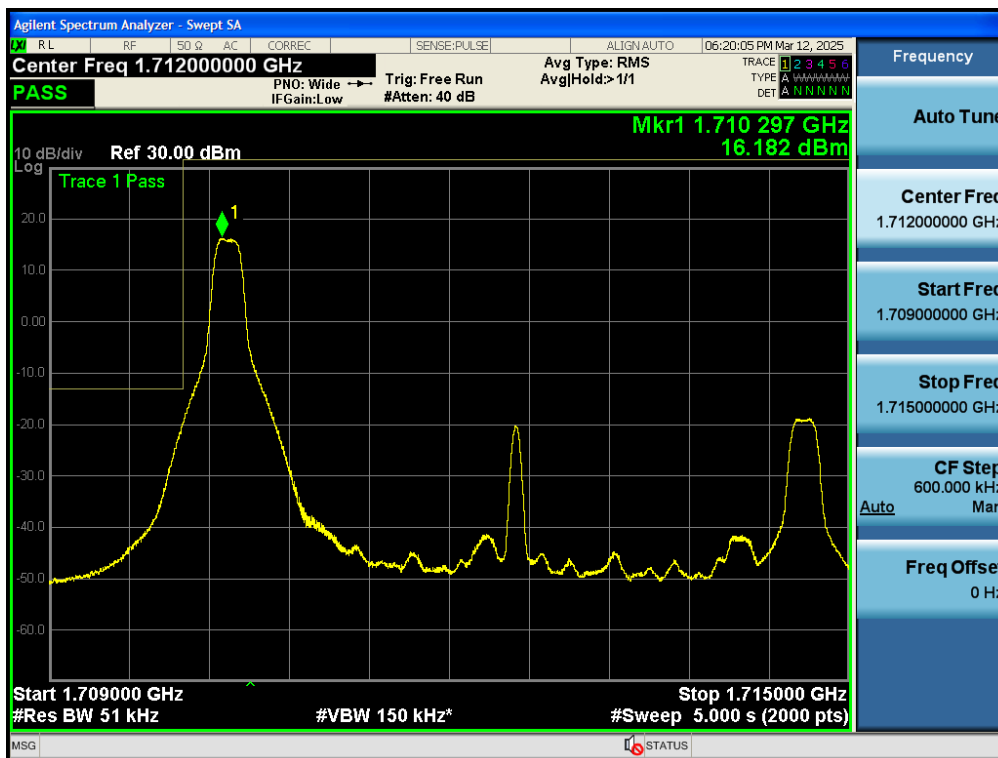
Test_Graph_band4_1753.5MHz_3M_QPSK_1RB#HIGH_Band edge



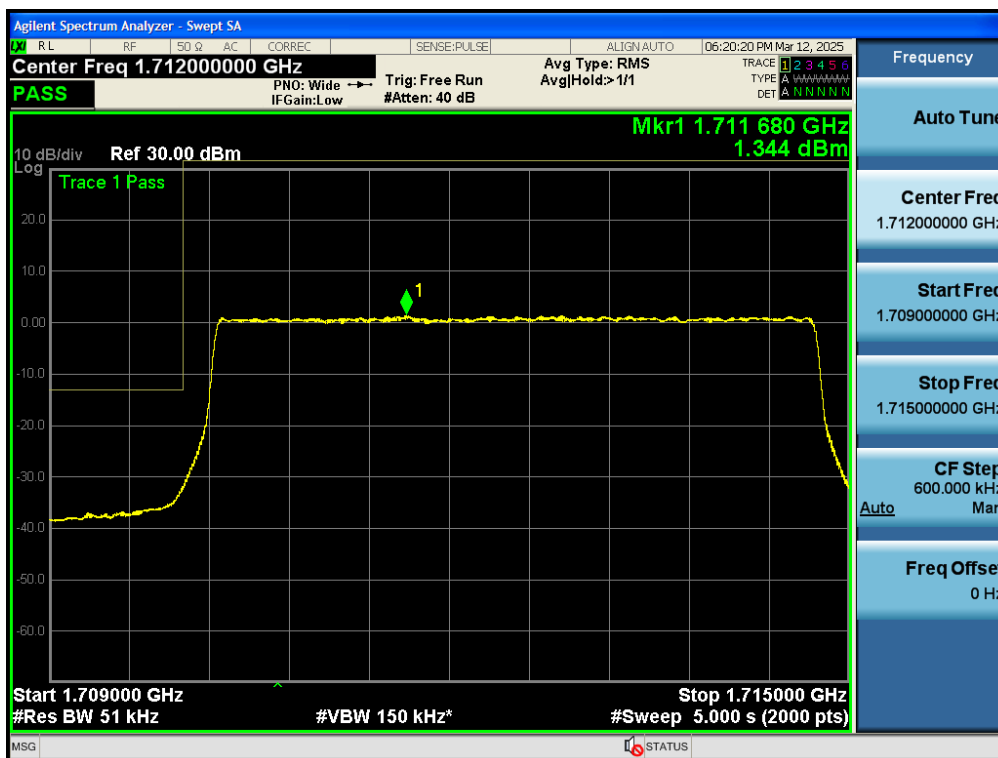
Test_Graph_band4_1712.5MHz_5M_16QAM_1RB#LOW_Band edge



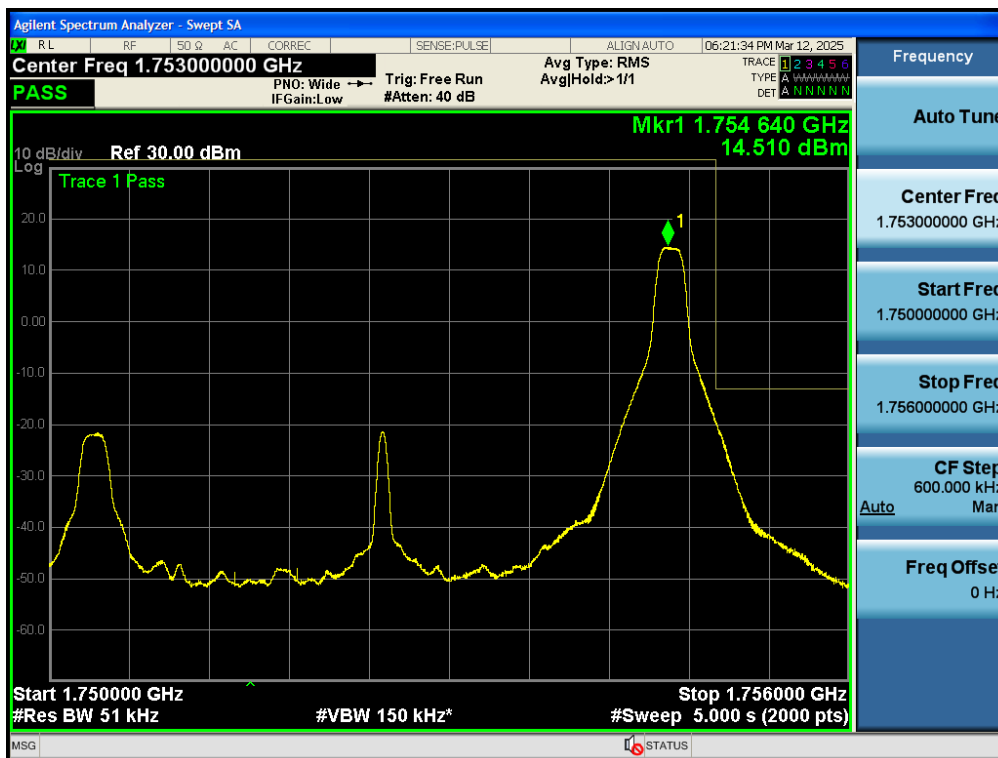
Test_Graph_band4_1712.5MHz_5M_16QAM_25RB#LOW_Band edge



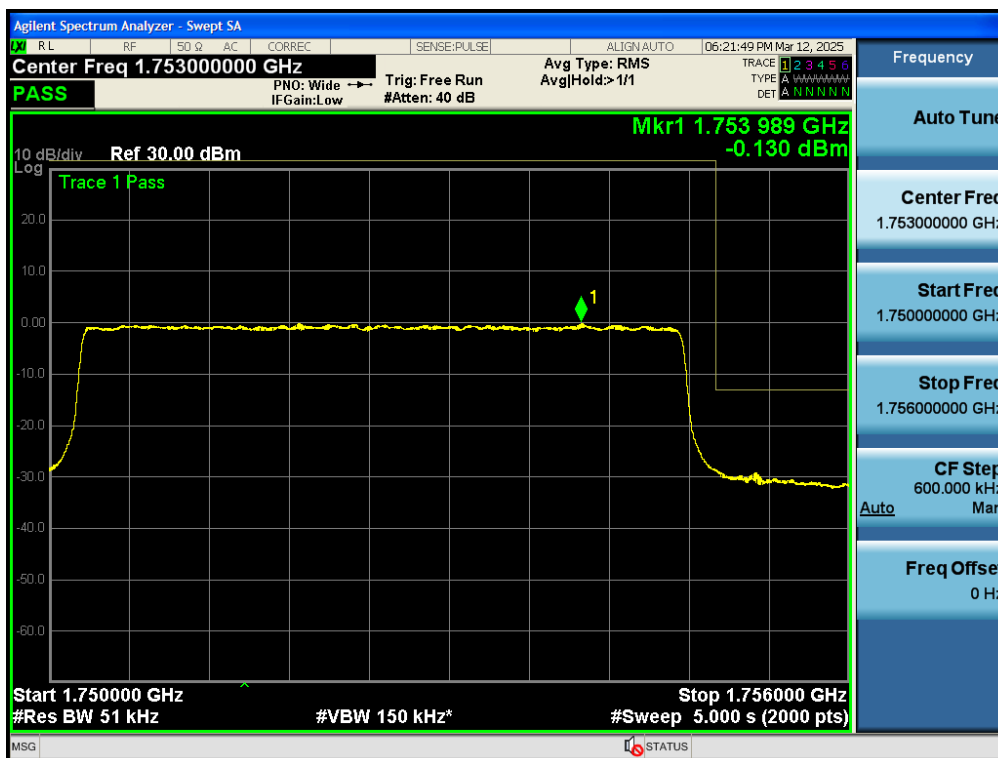
Test_Graph_band4_1712.5MHz_5M_QPSK_1RB#LOW_Band edge



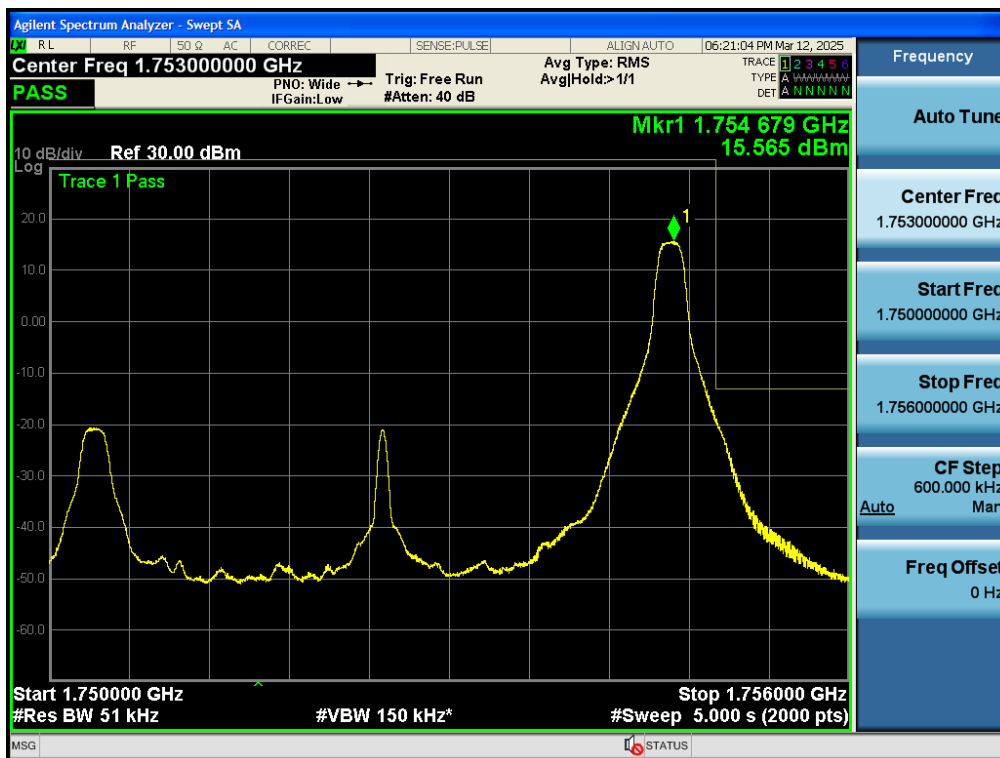
Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band4_1752.5MHz_5M_16QAM_1RB#HIGH_Band edge



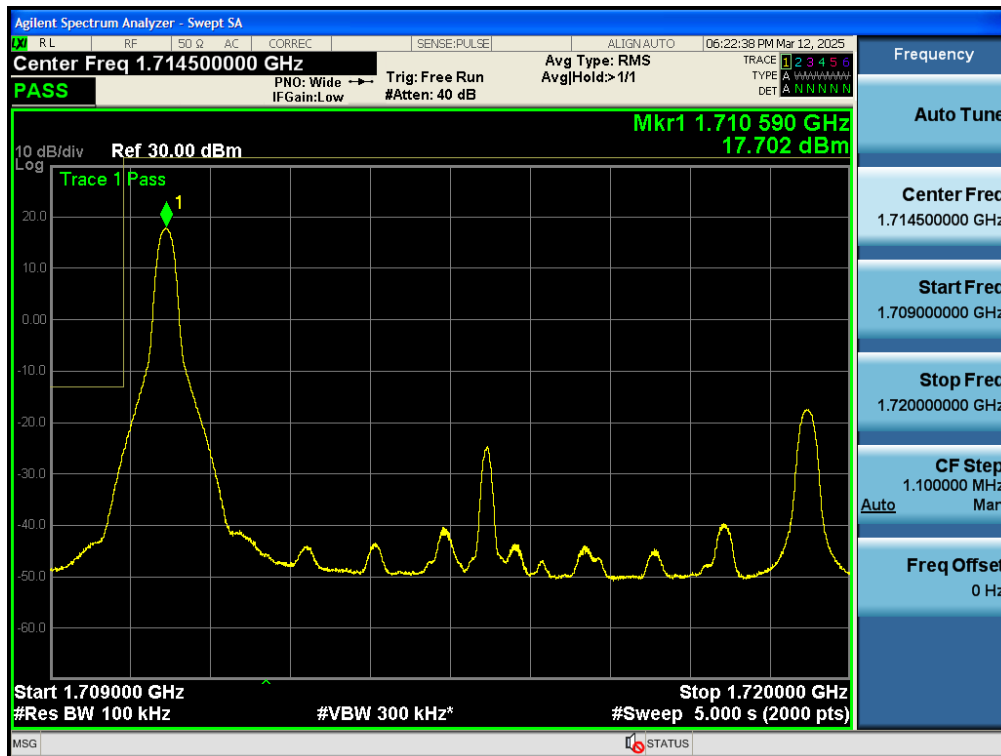
Test_Graph_band4_1752.5MHz_5M_16QAM_25RB#LOW_Band edge



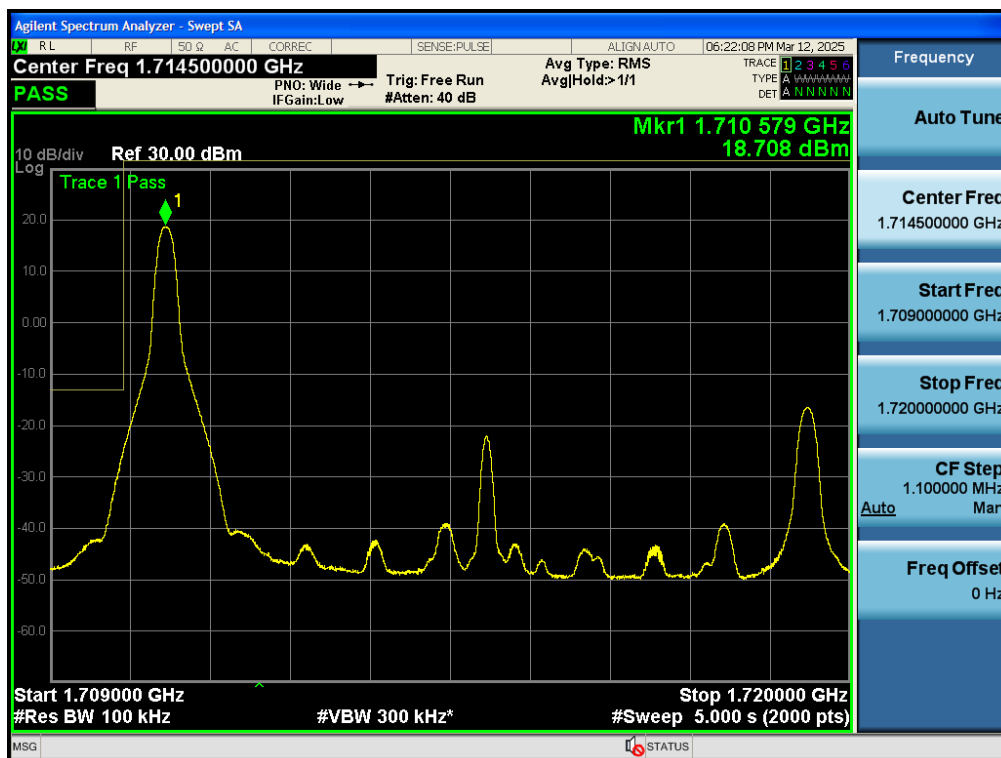
Test_Graph_band4_1752.5MHz_5M_QPSK_1RB#HIGH_Band edge



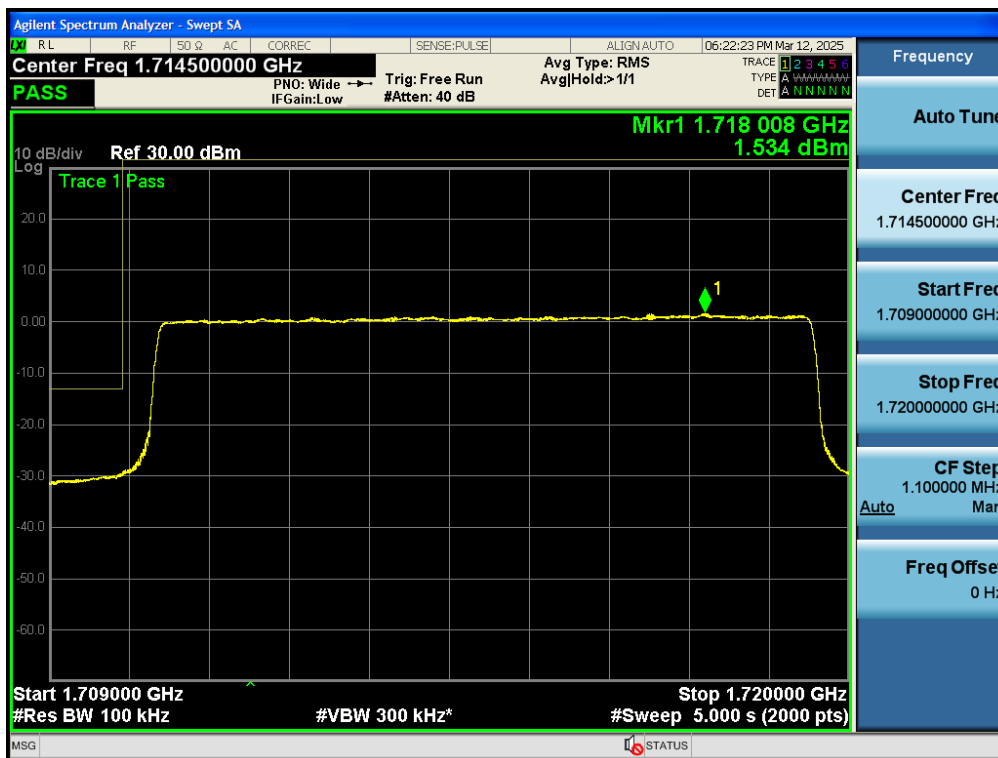
Test_Graph_band4_1752.5MHz_5M_QPSK_25RB#LOW_Band edge



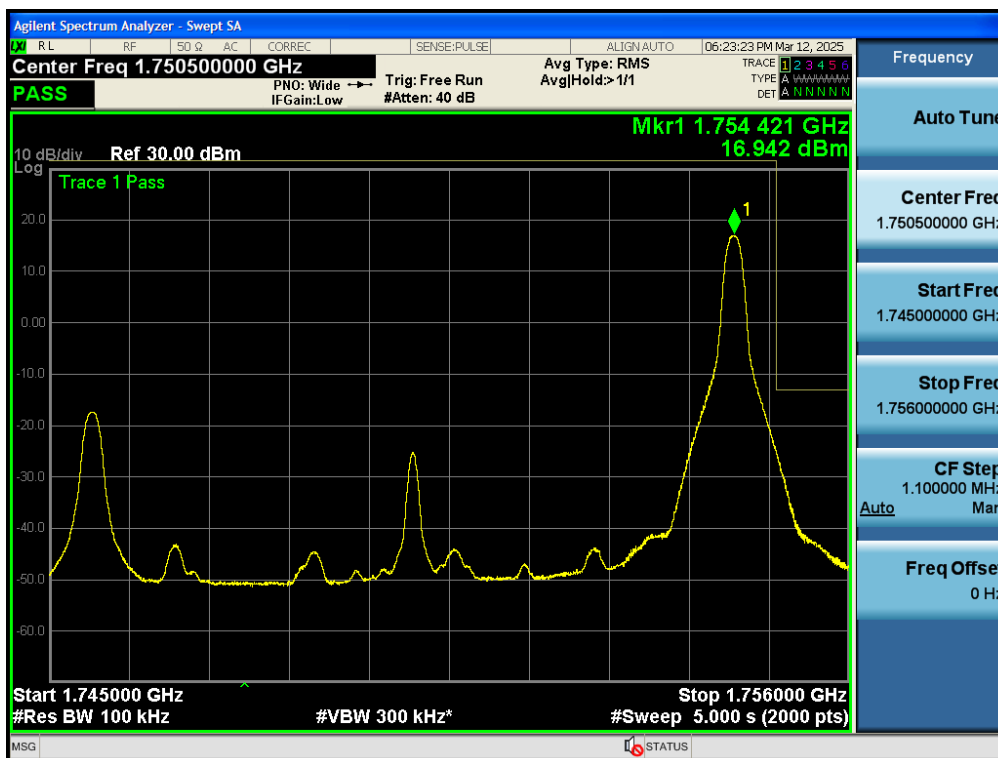
Test_Graph_band4_1715MHz_10M_16QAM_1RB#LOW_Band edge



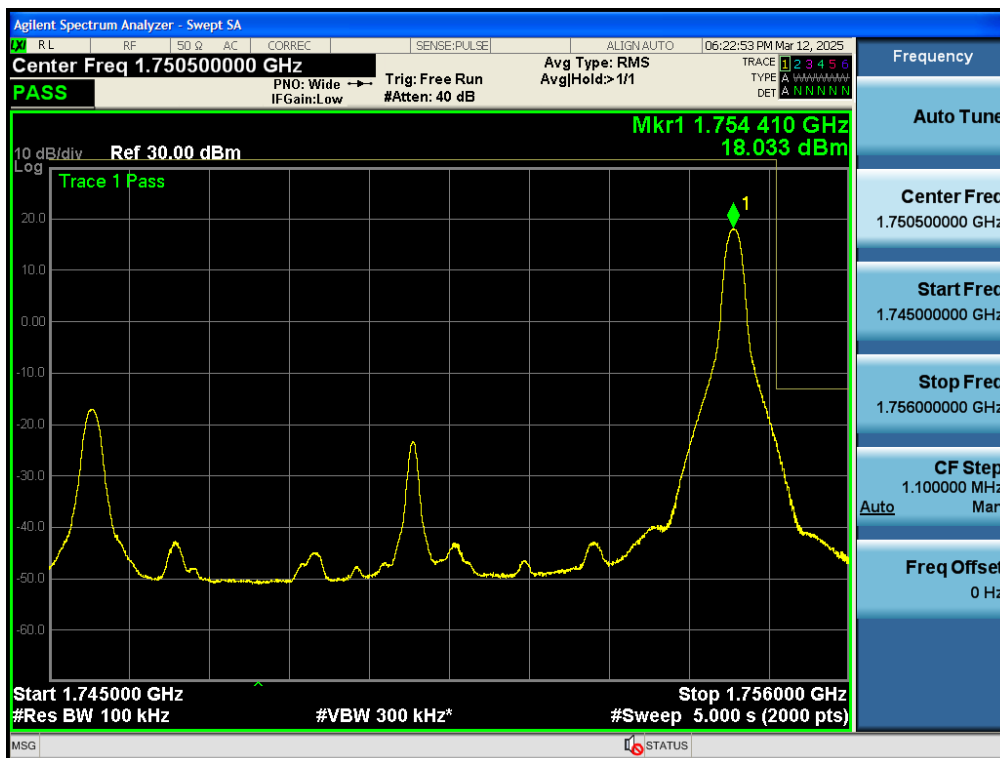
Test_Graph_band4_1715MHz_10M_QPSK_1RB#LOW_Band edge



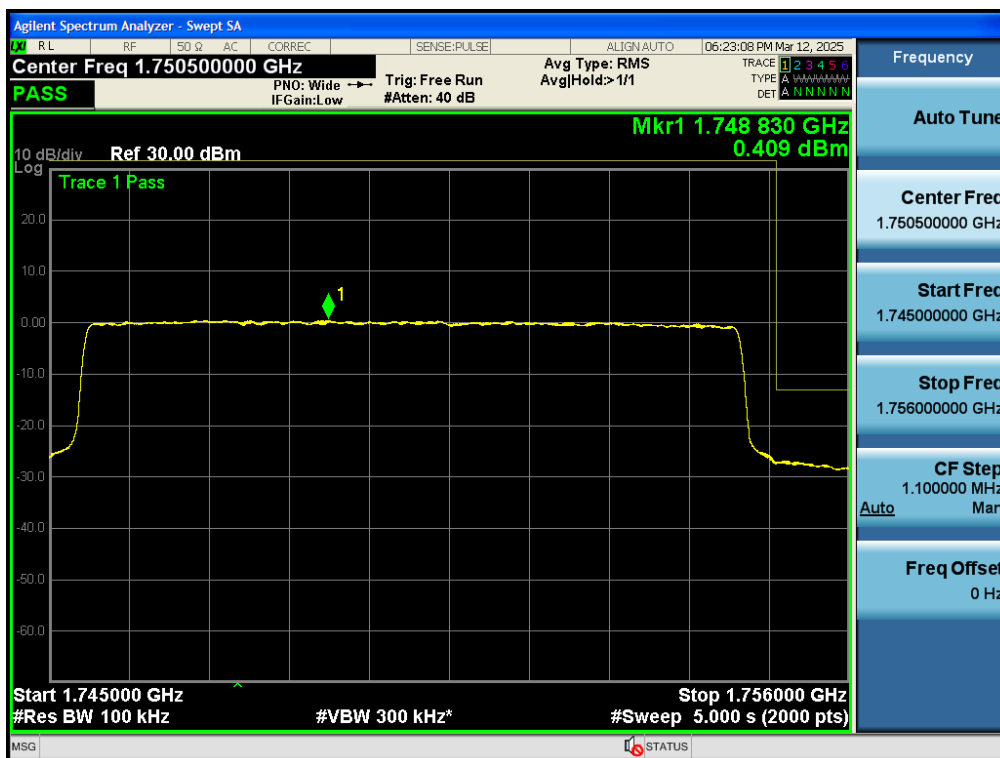
Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_Band edge



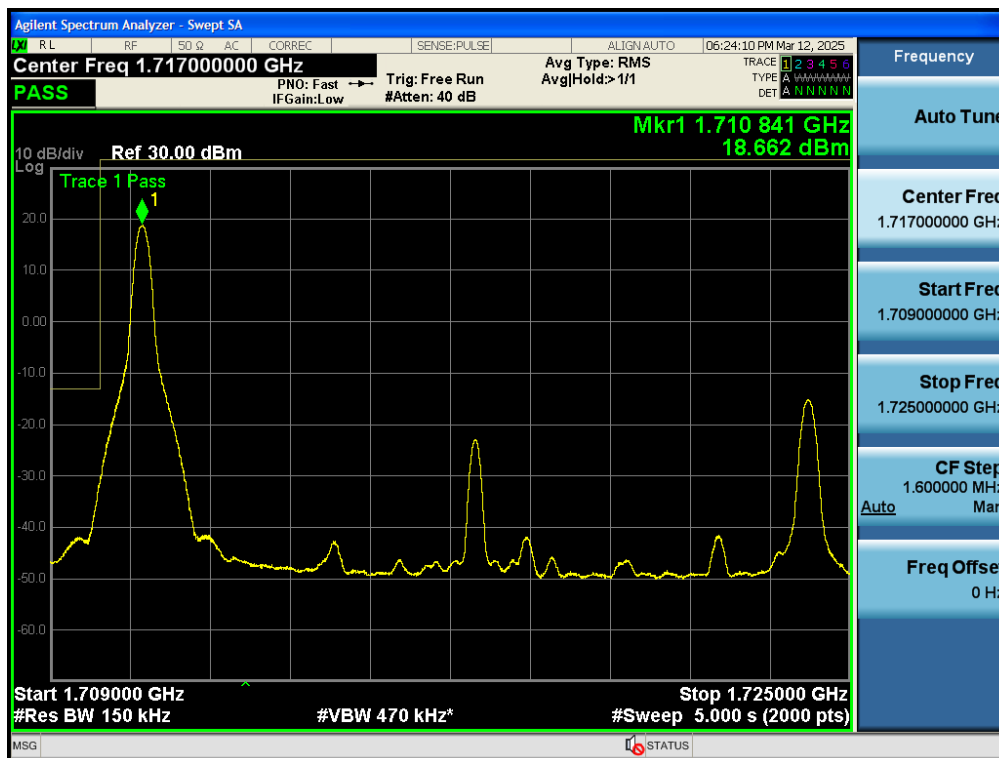
Test_Graph_band4_1750MHz_10M_16QAM_1RB#HIGH_Band edge



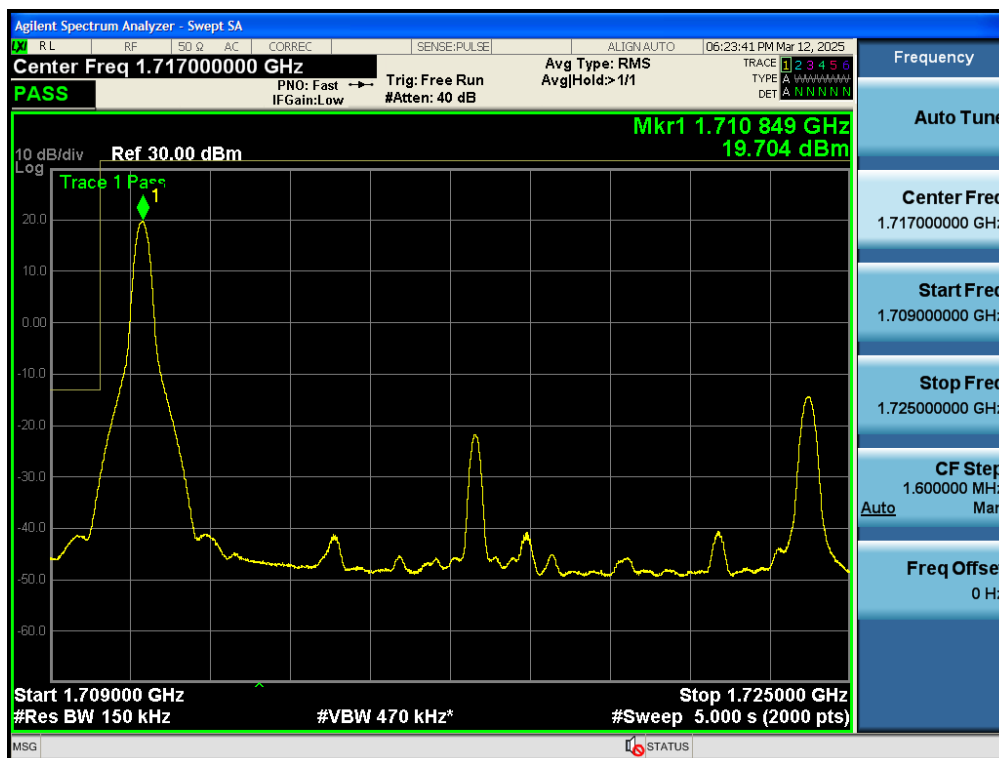
Test_Graph_band4_1750MHz_10M_QPSK_1RB#HIGH_Band edge



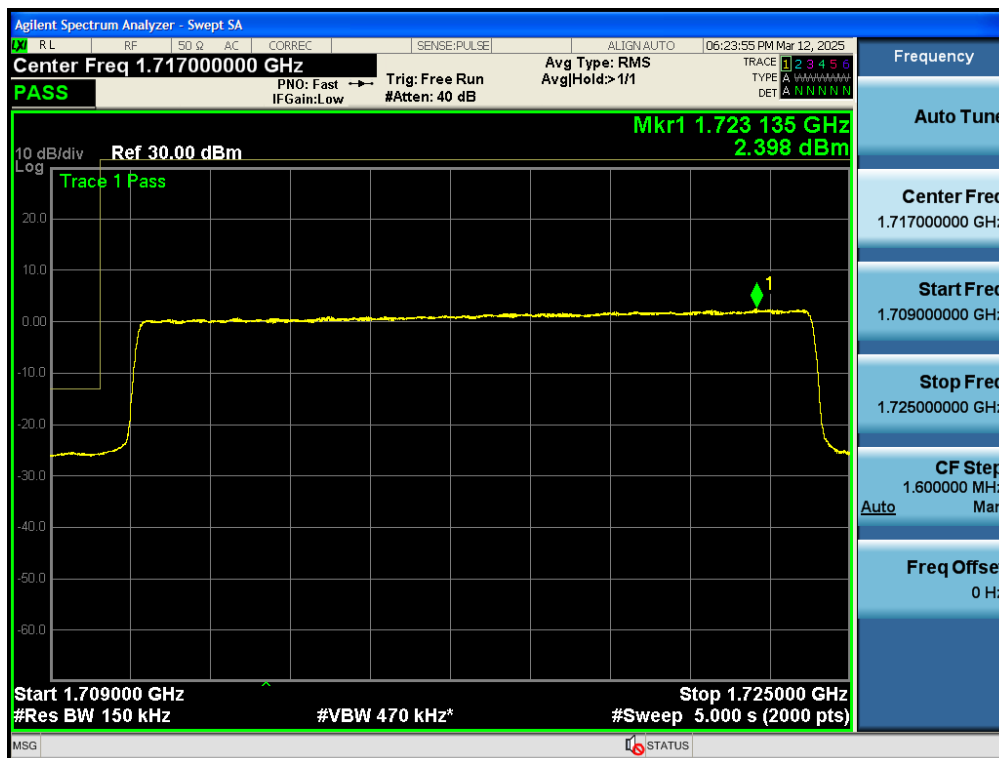
Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_Band edge



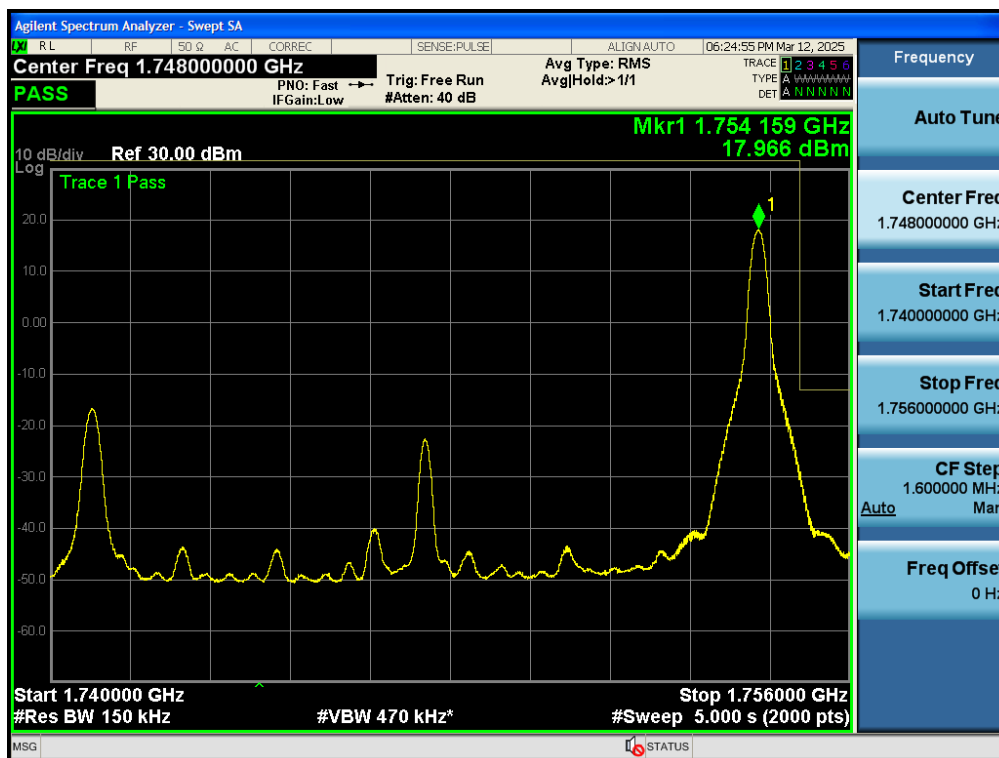
Test_Graph_band4_1717.5MHz_15M_16QAM_1RB#LOW_Band edge



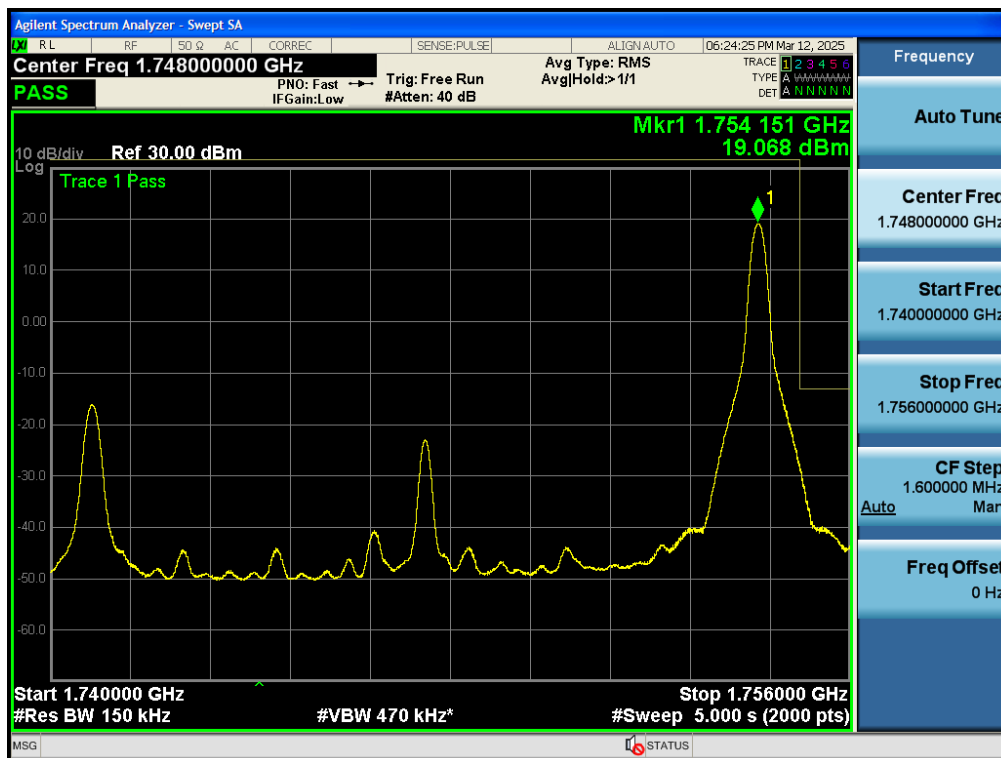
Test_Graph_band4_1717.5MHz_15M_QPSK_1RB#LOW_Band edge



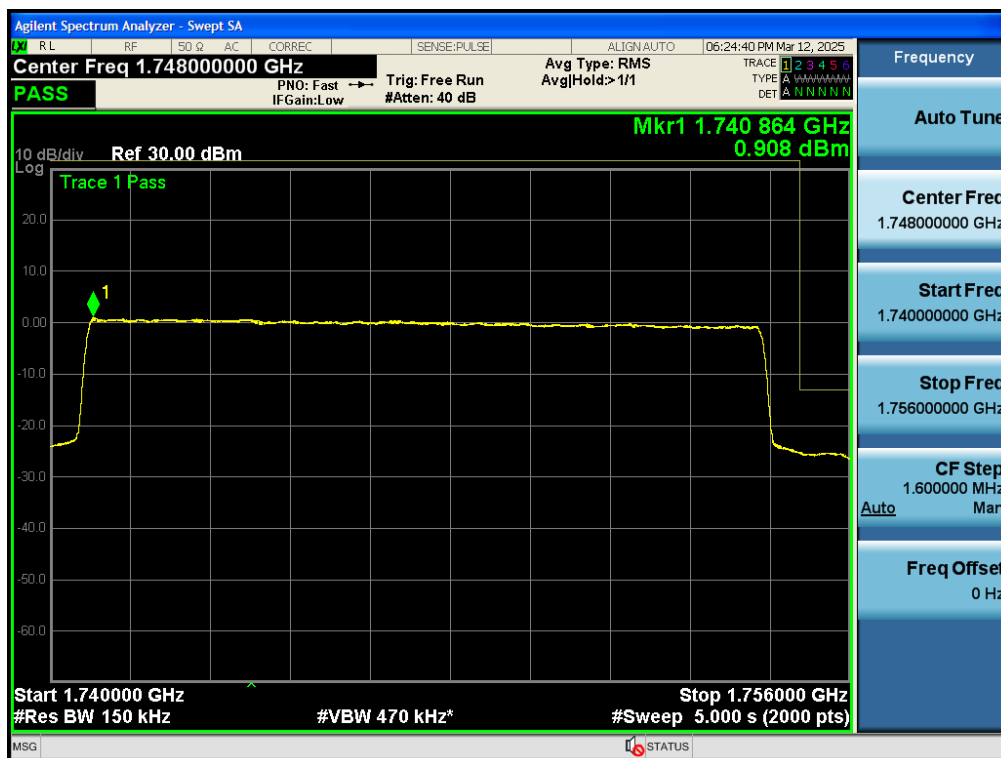
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_Band edge



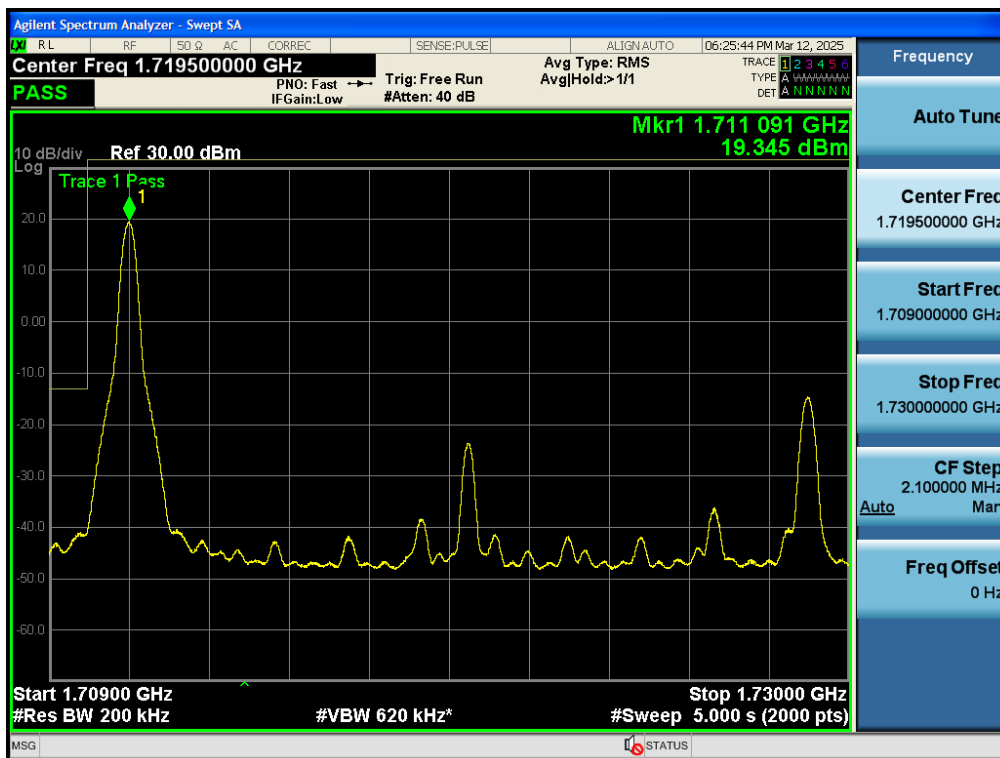
Test_Graph_band4_1747.5MHz_15M_16QAM_1RB#HIGH_Band edge



Test_Graph_band4_1747.5MHz_15M_QPSK_1RB#HIGH_Band edge



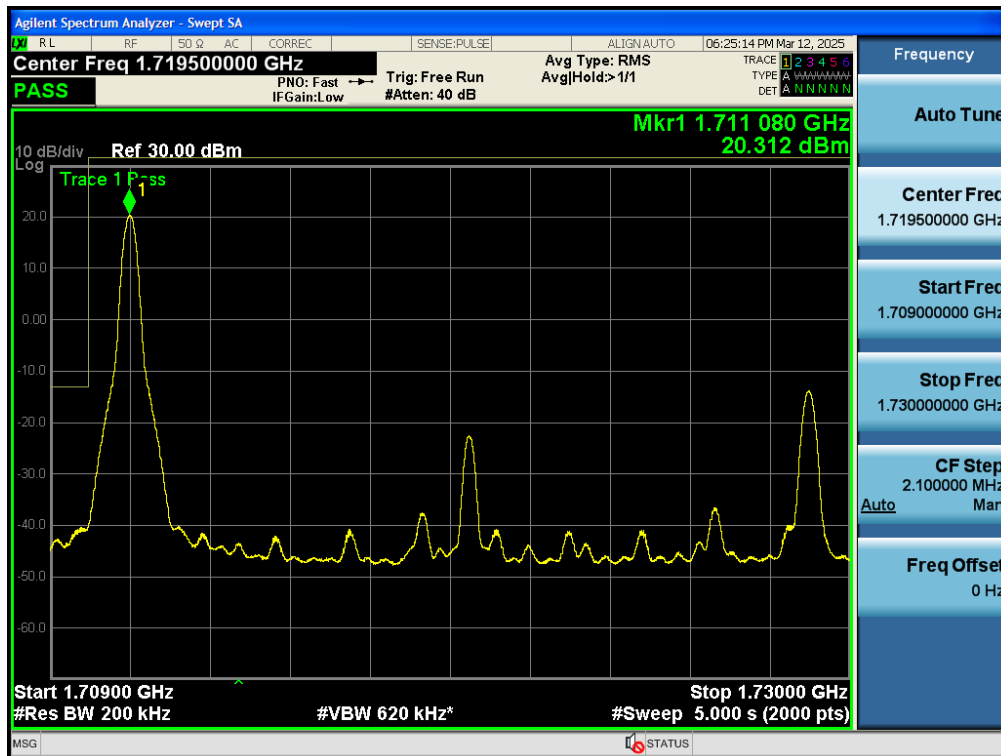
Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_Band edge



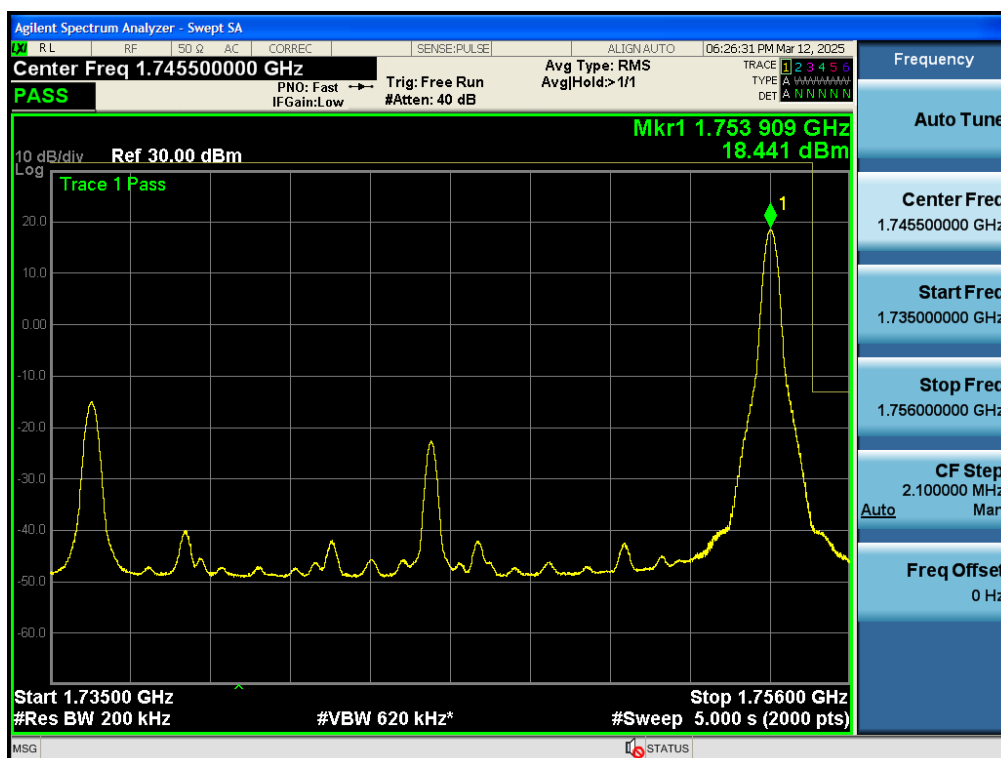
Test_Graph_band4_1720MHz_20M_16QAM_1RB#LOW_Band edge



Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_Band edge



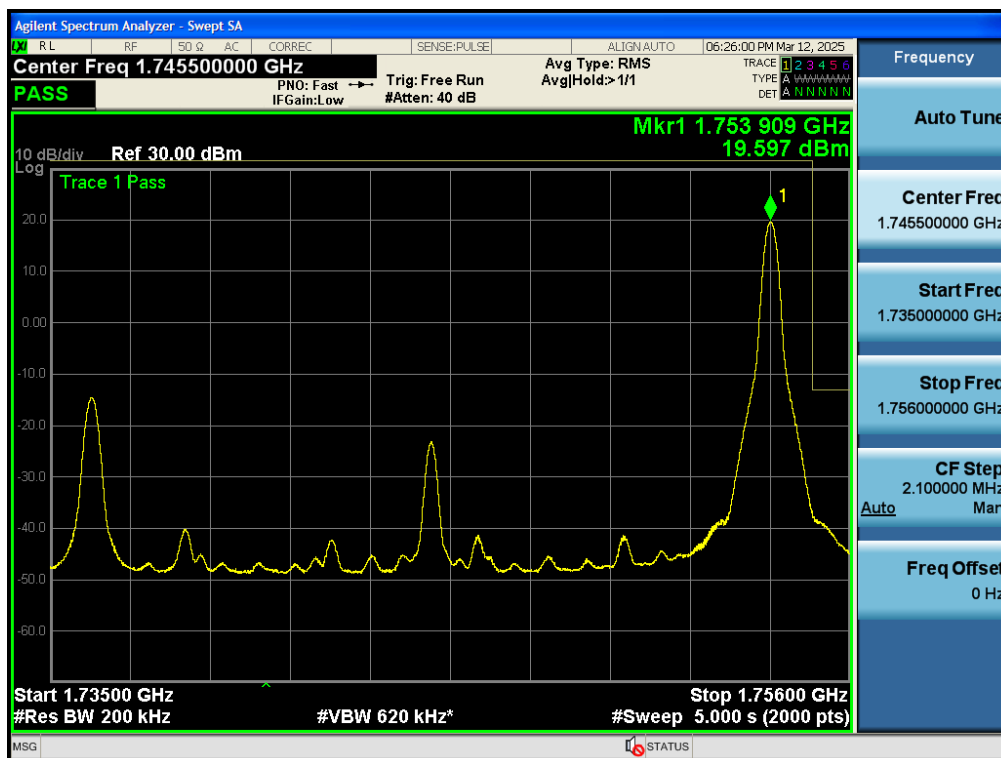
Test_Graph_band4_1720MHz_20M_QPSK_1RB#LOW_Band edge



Test_Graph_band4_1745MHz_20M_16QAM_1RB#HIGH_Band edge



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_Band edge



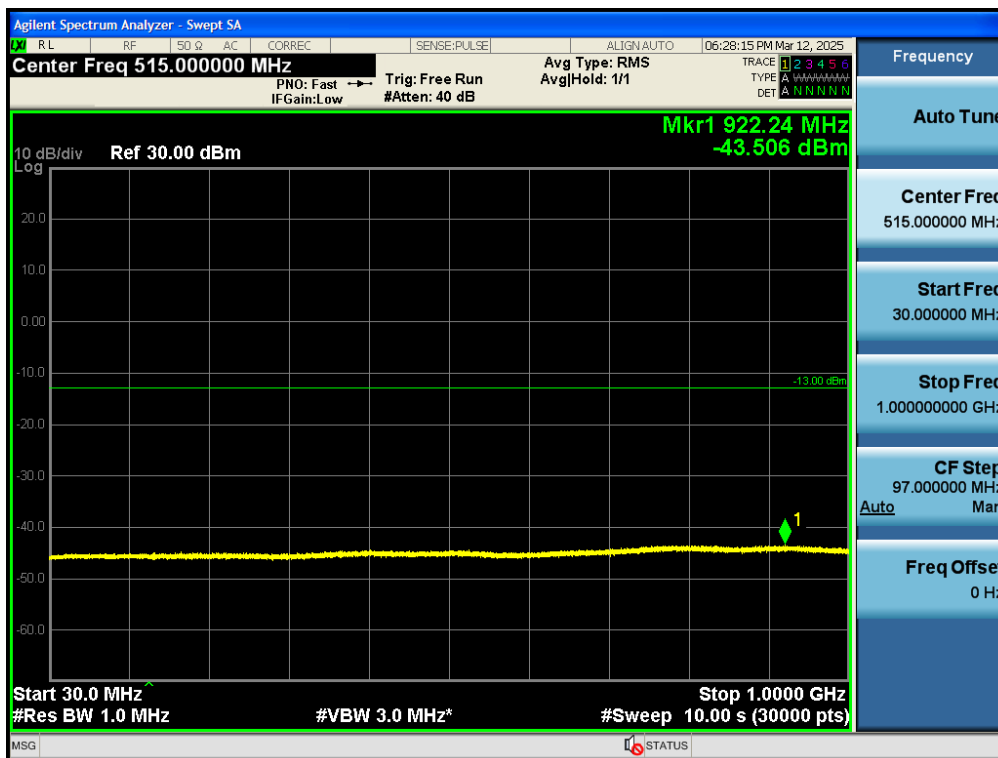
Test_Graph_band4_1745MHz_20M_QPSK_1RB#HIGH_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
4	1.4	1710.7	QPSK	6	LOW	Pass
4	1.4	1732.5	QPSK	6	LOW	Pass
4	1.4	1754.3	QPSK	6	LOW	Pass
4	3	1711.5	QPSK	15	LOW	Pass
4	3	1732.5	QPSK	15	LOW	Pass
4	3	1753.5	QPSK	15	LOW	Pass
4	5	1712.5	QPSK	25	LOW	Pass
4	5	1752.5	QPSK	25	LOW	Pass
4	5	1752.5	QPSK	25	LOW	Pass
4	10	1715	QPSK	50	LOW	Pass
4	10	1732.5	QPSK	50	LOW	Pass
4	10	1750	QPSK	50	LOW	Pass
4	15	1717.5	QPSK	75	LOW	Pass
4	15	1732.5	QPSK	75	LOW	Pass
4	15	1747.5	QPSK	75	LOW	Pass
4	20	1720	QPSK	100	LOW	Pass
4	20	1732.5	QPSK	100	LOW	Pass
4	20	1745	QPSK	100	LOW	Pass

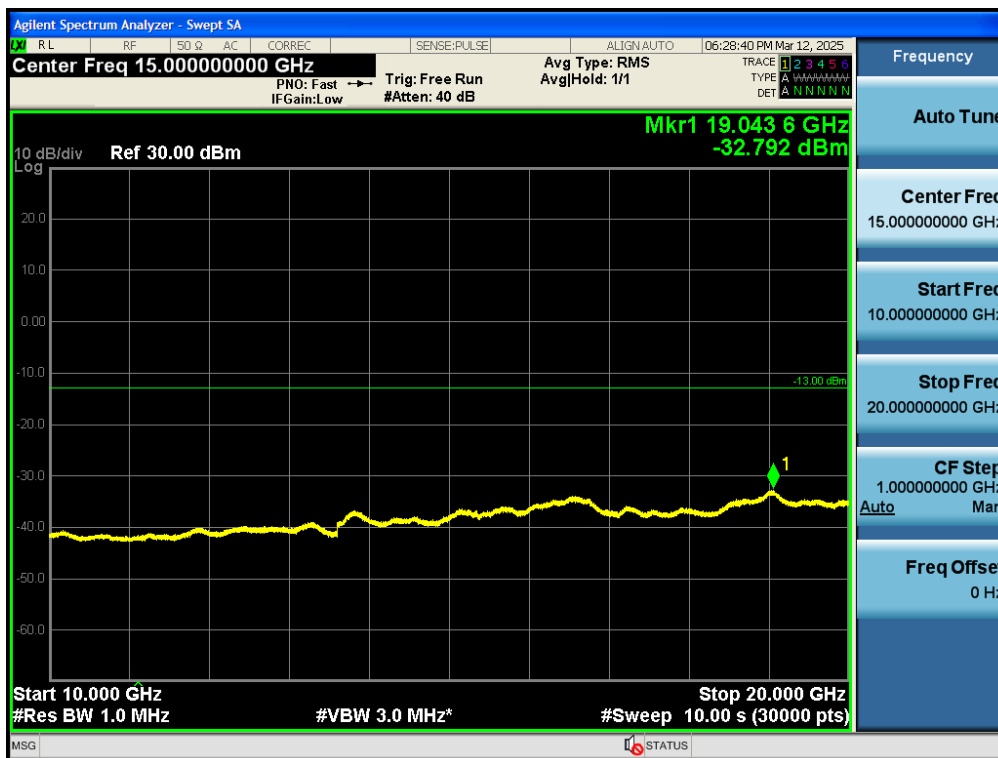
Test Graphs



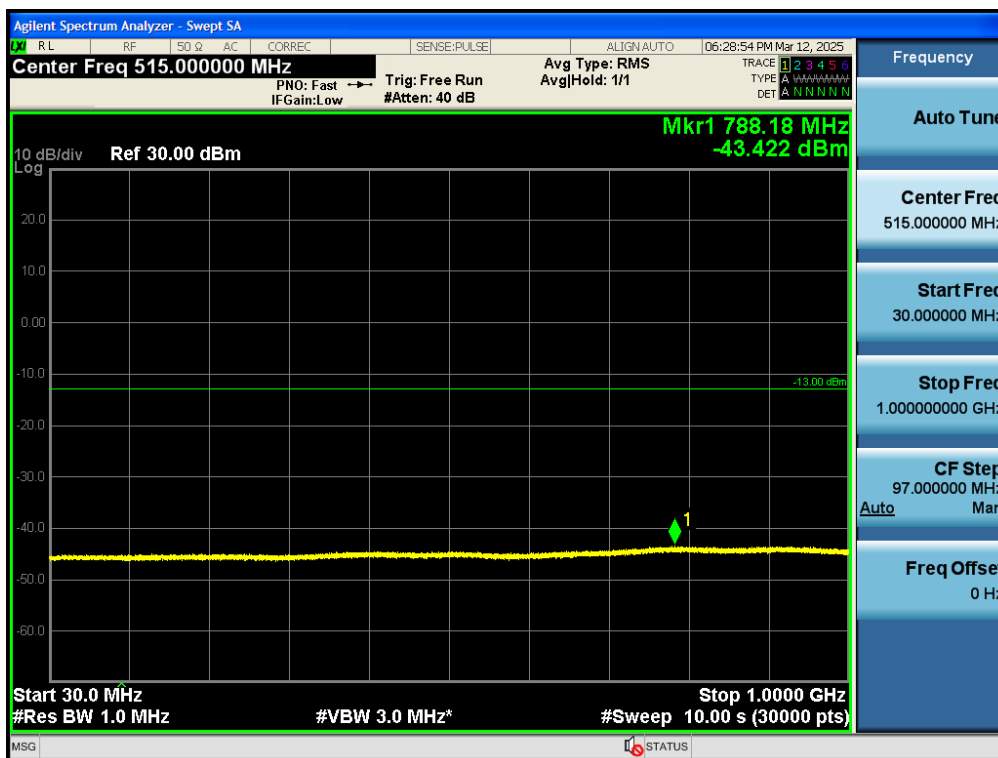
Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



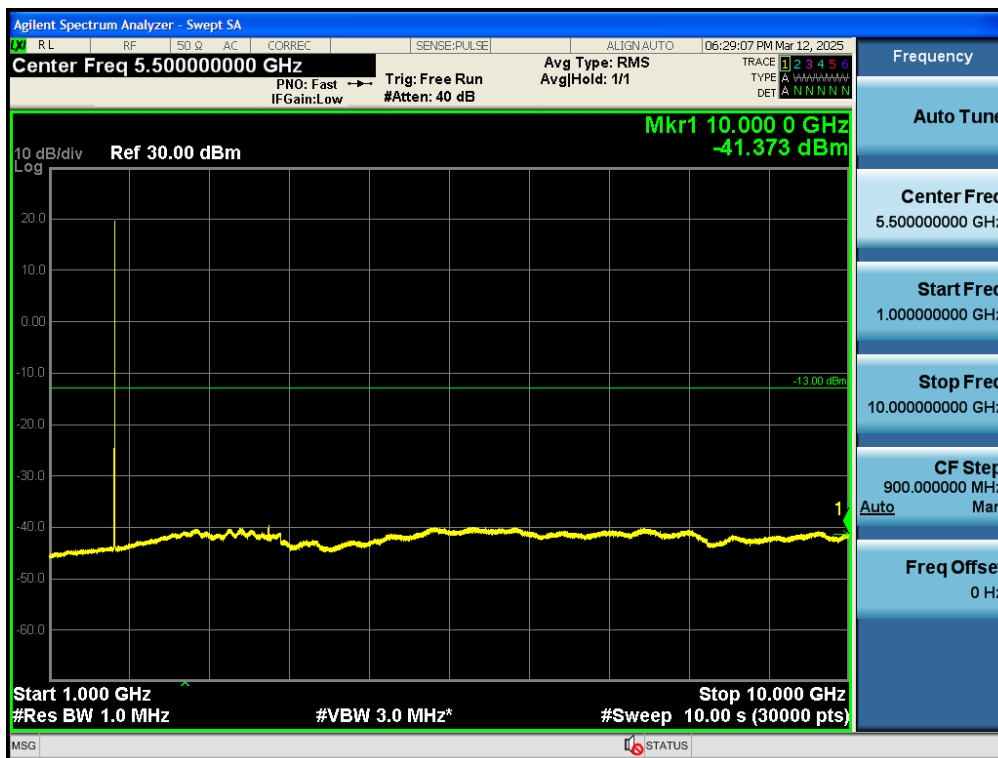
Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_10G_20.0G_TX



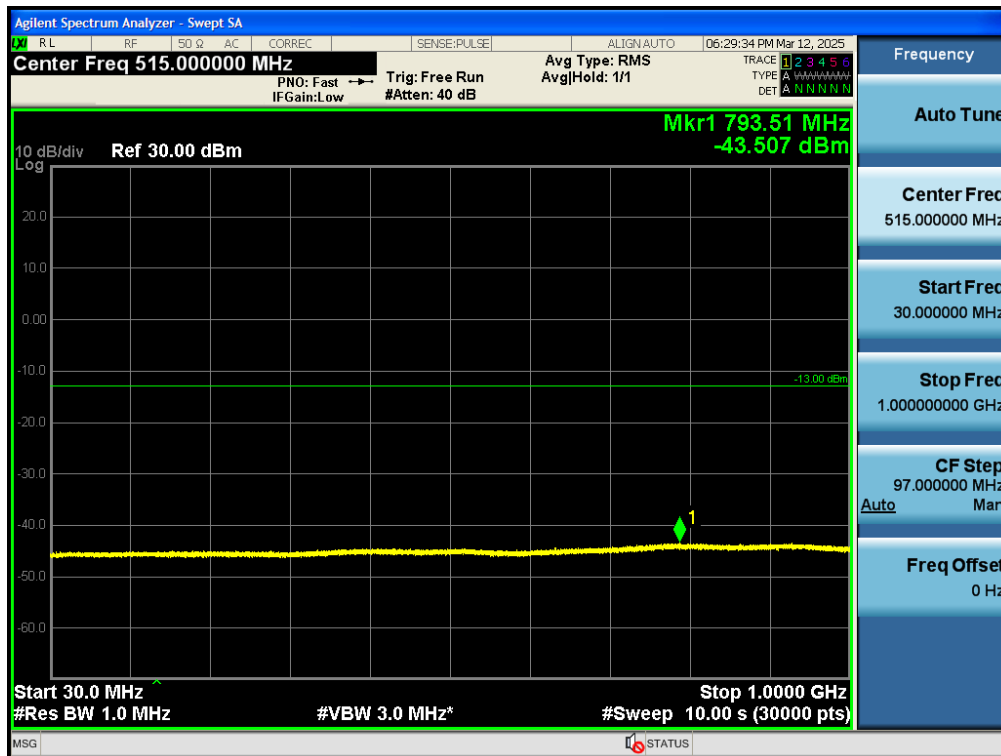
Test_Graph_band4_1732.5MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



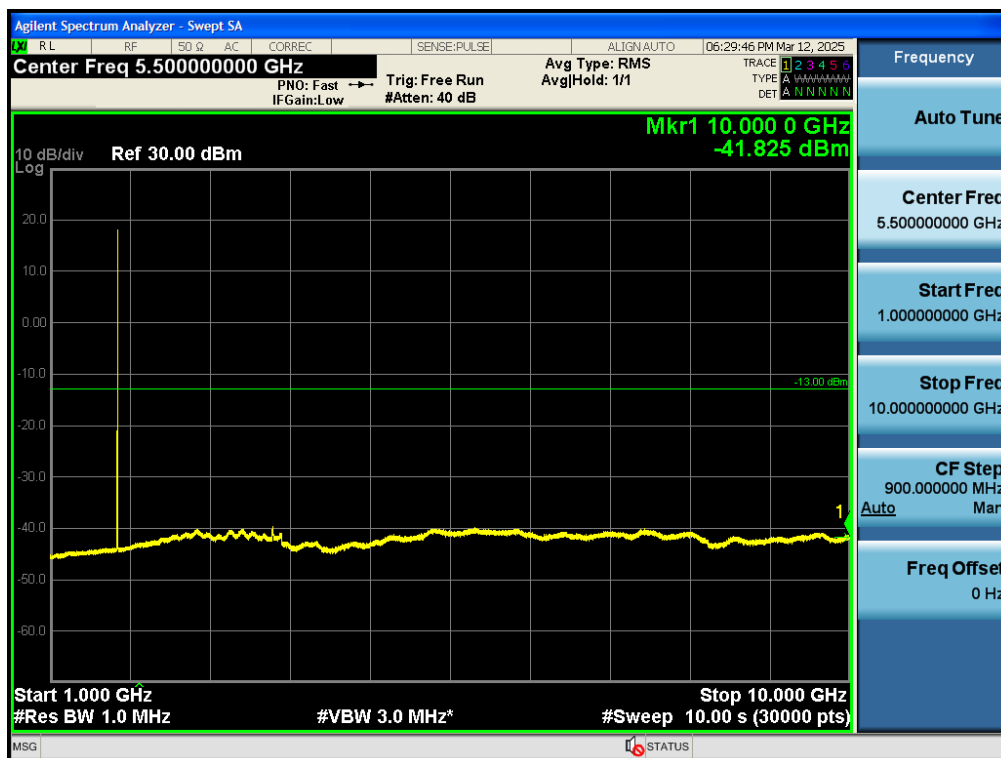
Test_Graph_band4_1732.5MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



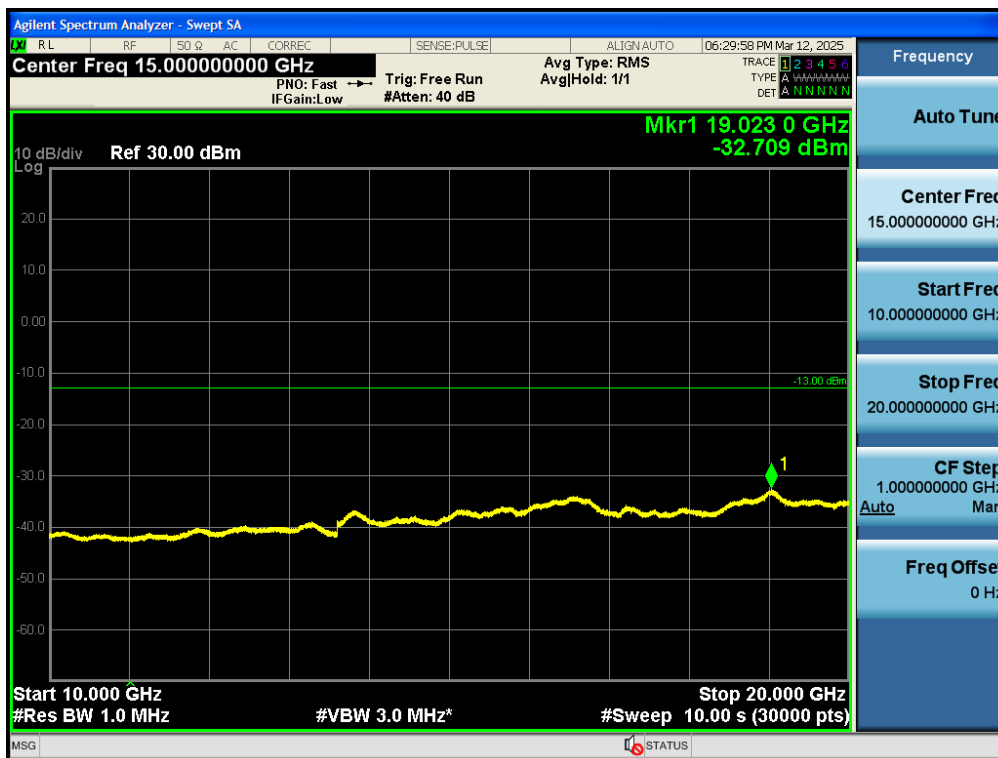
Test_Graph_band4_1732.5MHz_1.4M_QPSK_6RB#LOW_10G_20.0G_TX



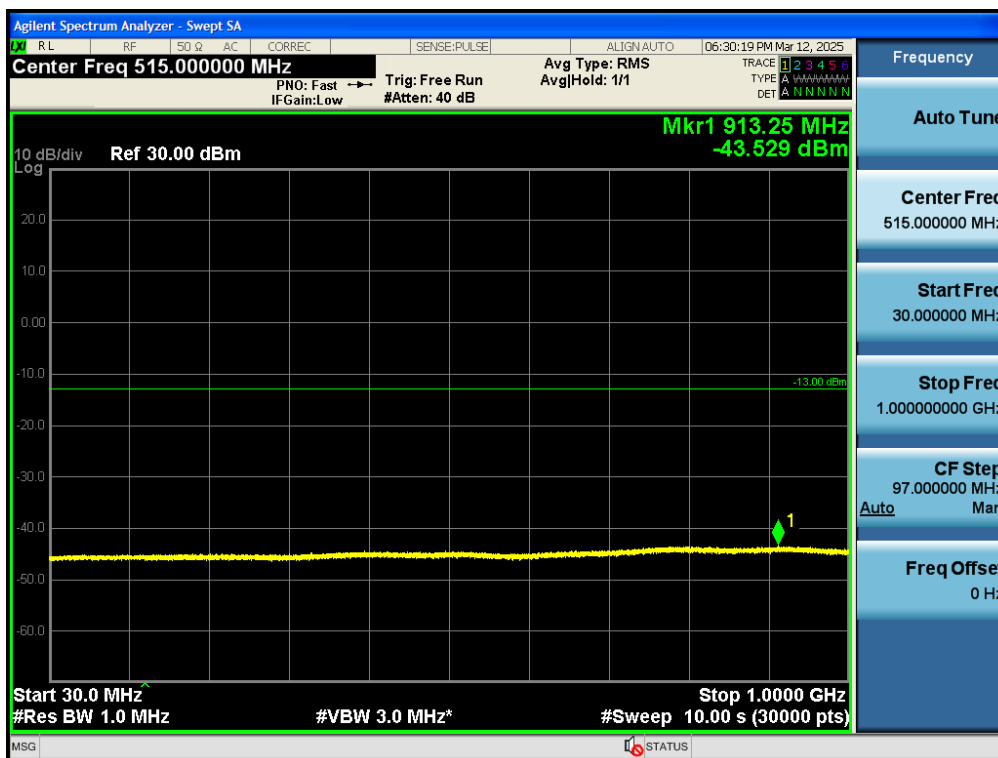
Test_Graph_band4_1754.3MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



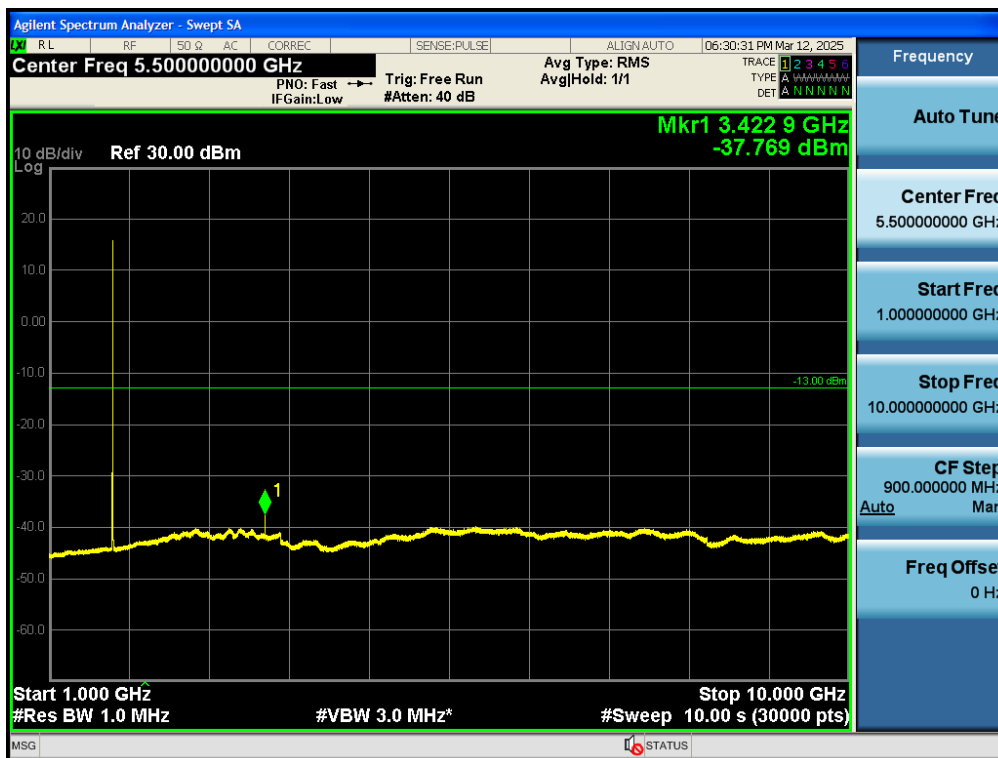
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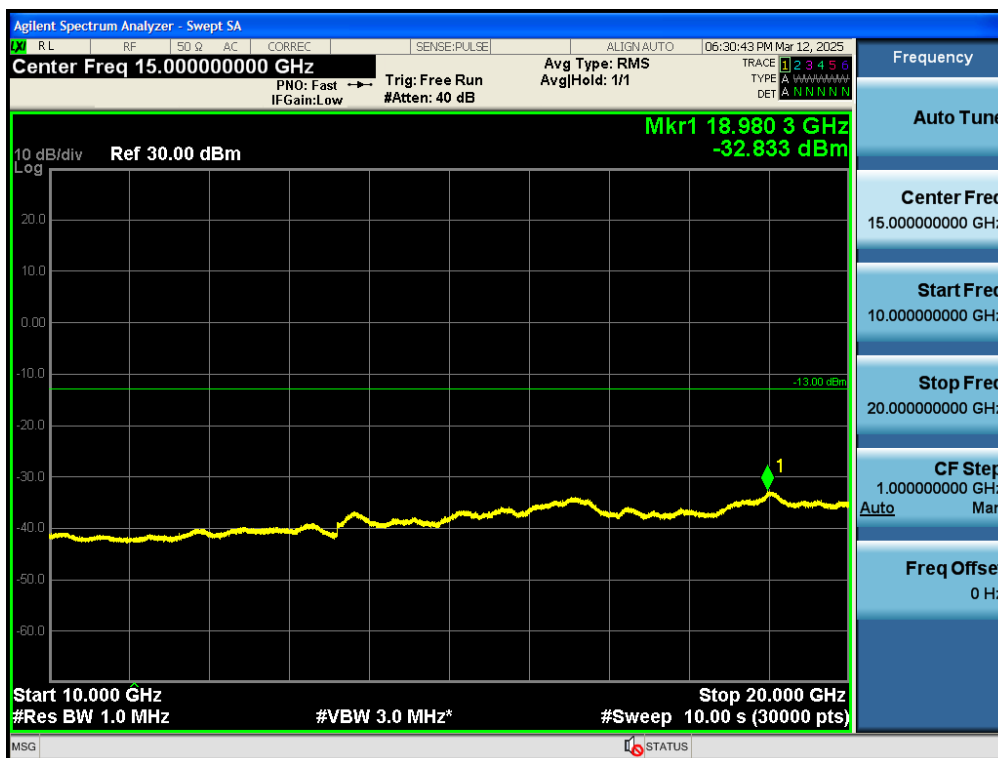
Test_Graph_band4_1754.3MHz_1.4M_QPSK_6RB#LOW_10G_20.0G_TX



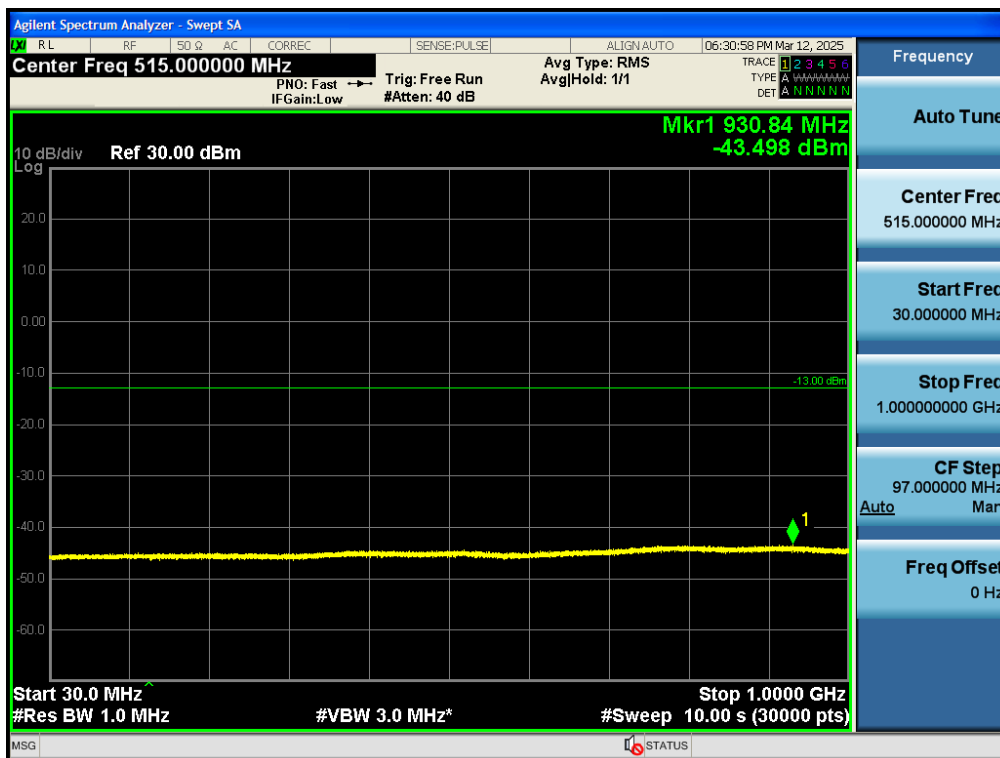
Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



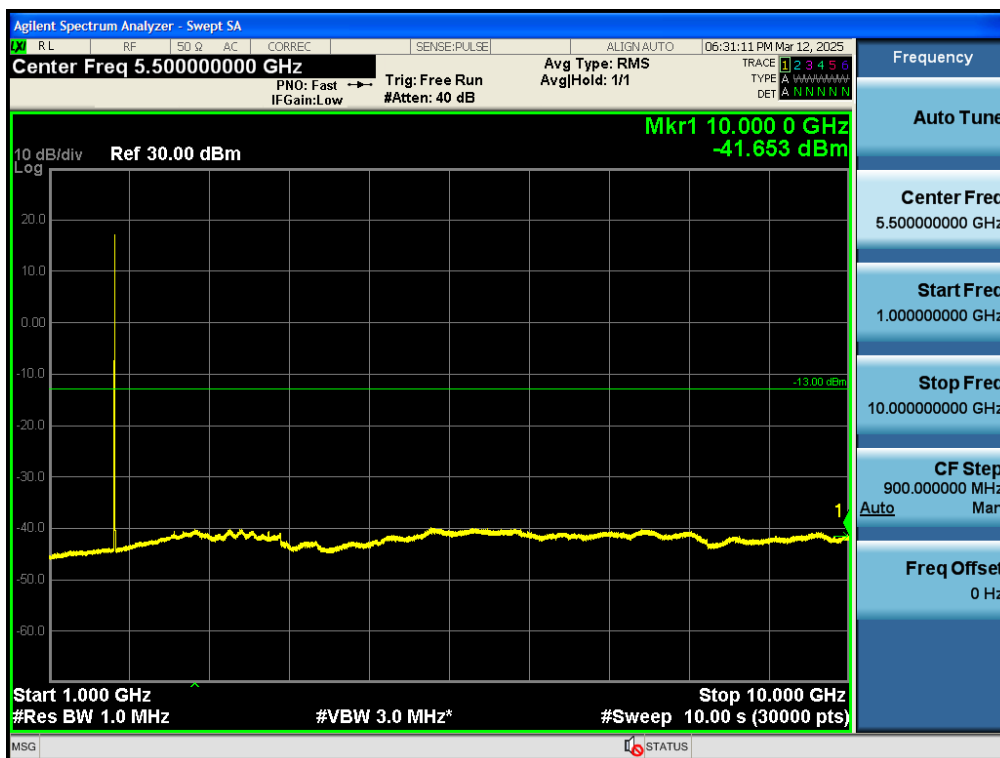
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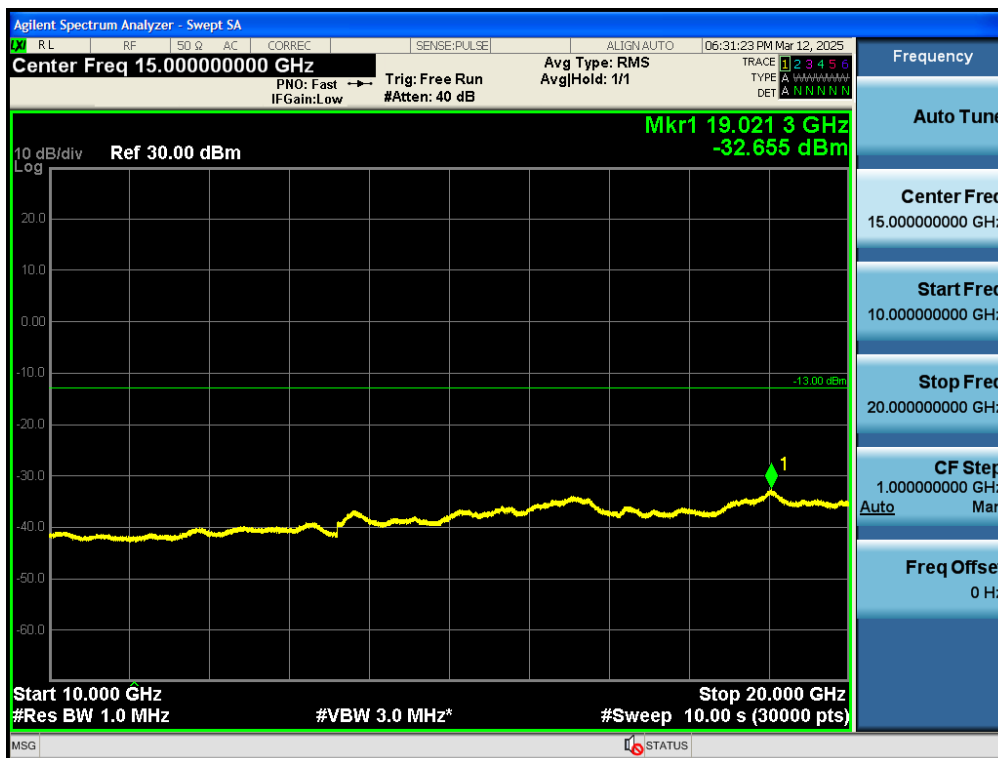
Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



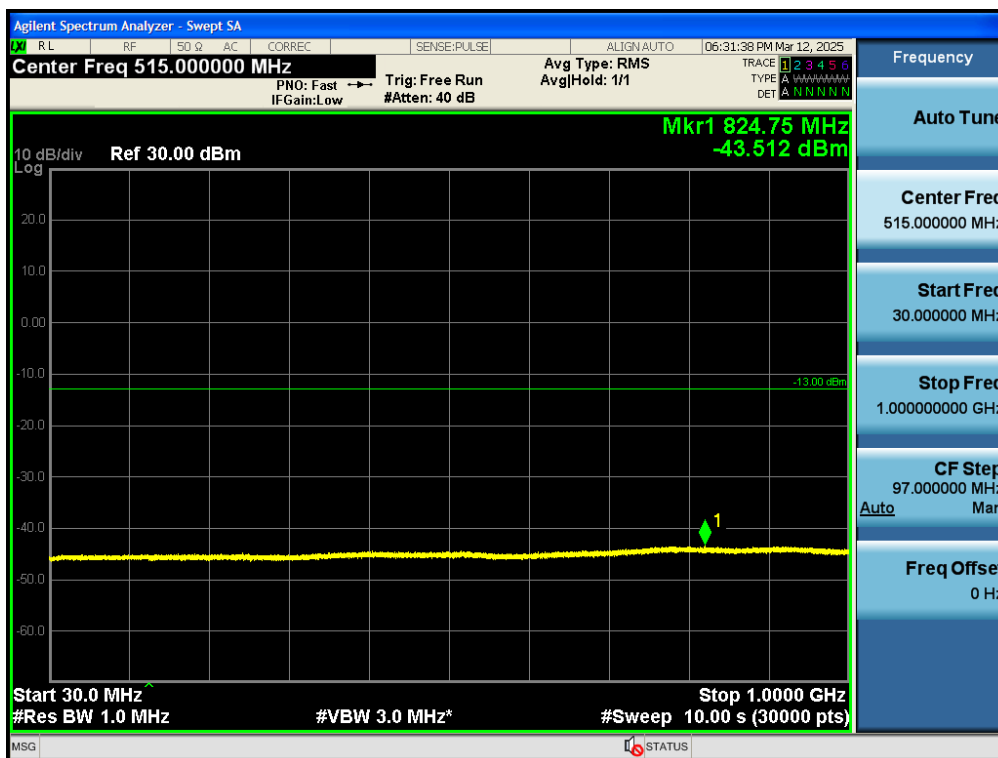
Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



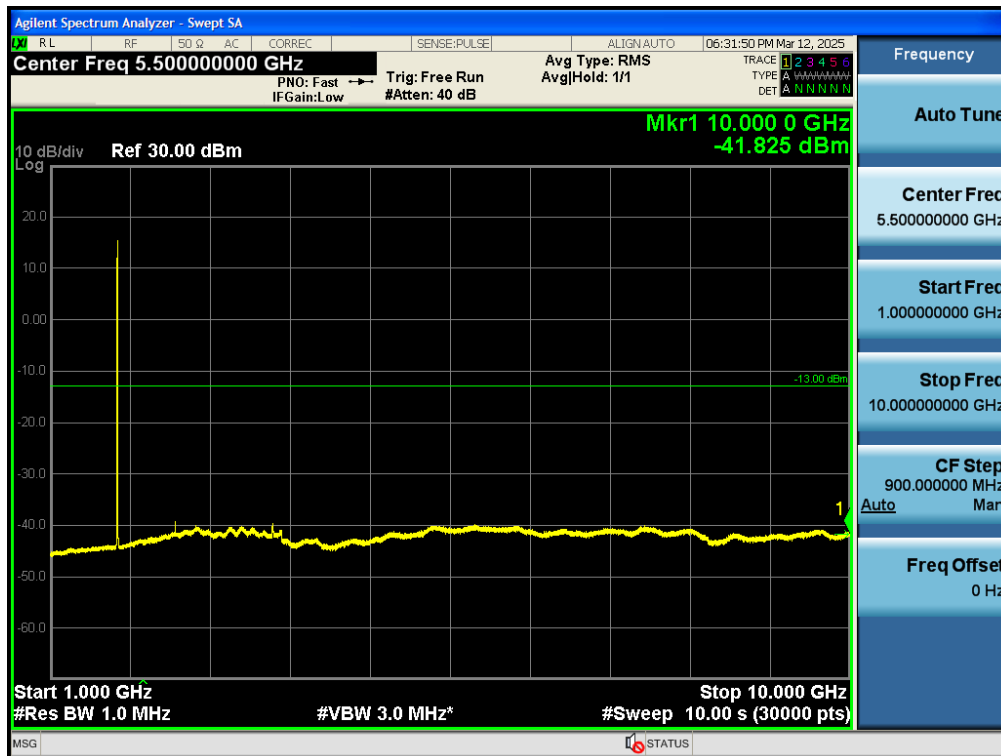
Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



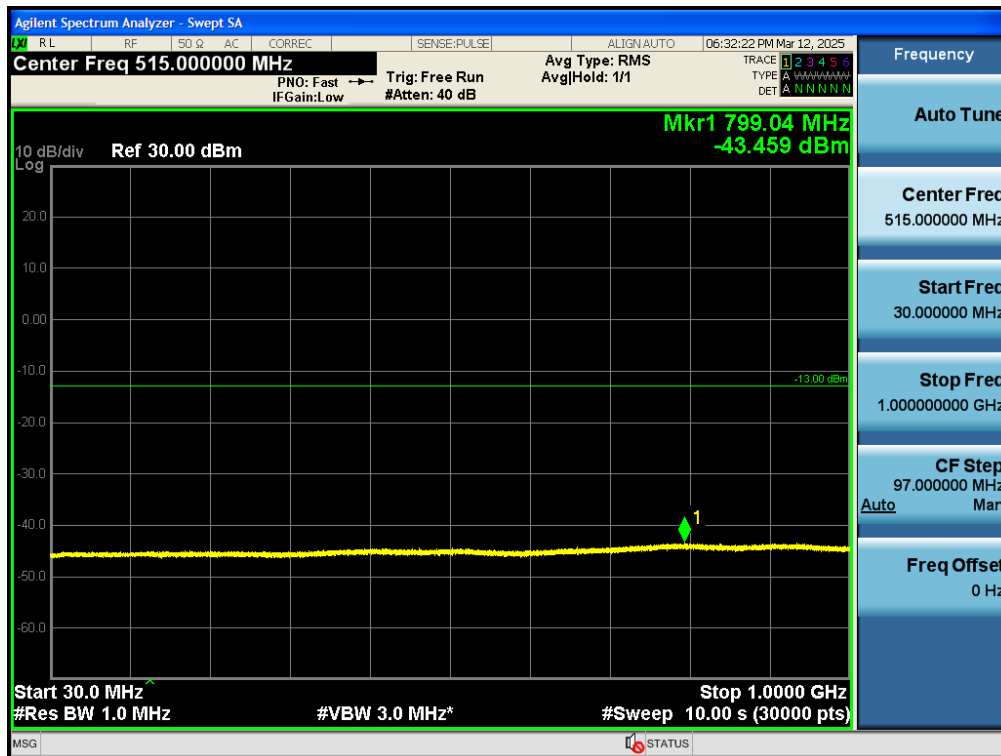
Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



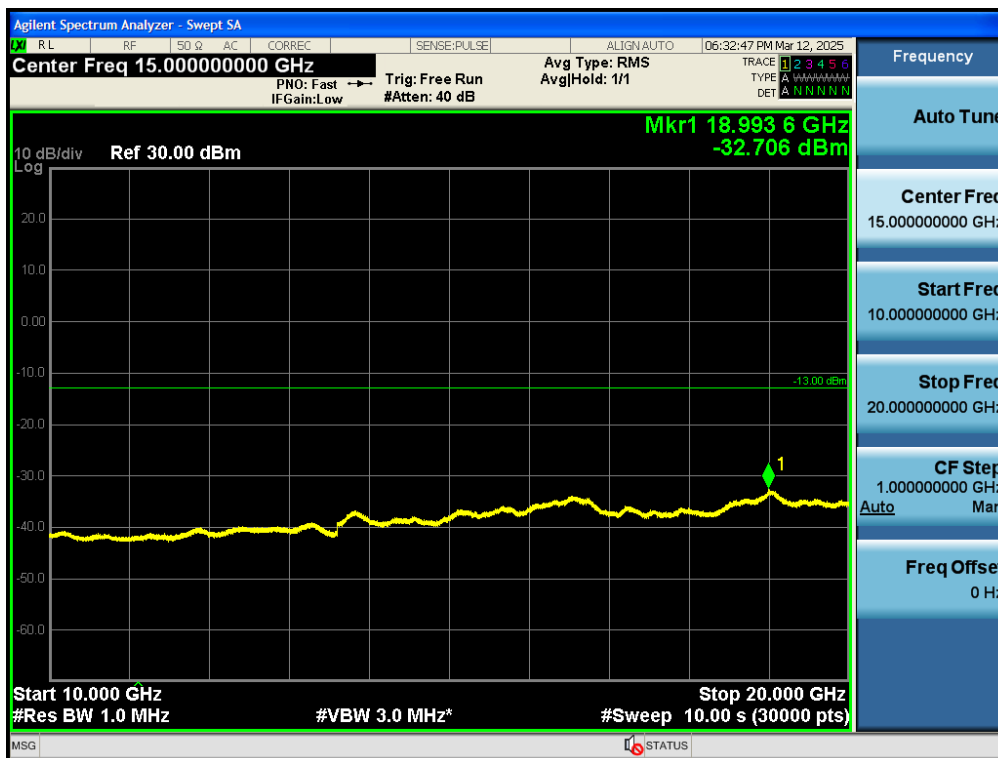
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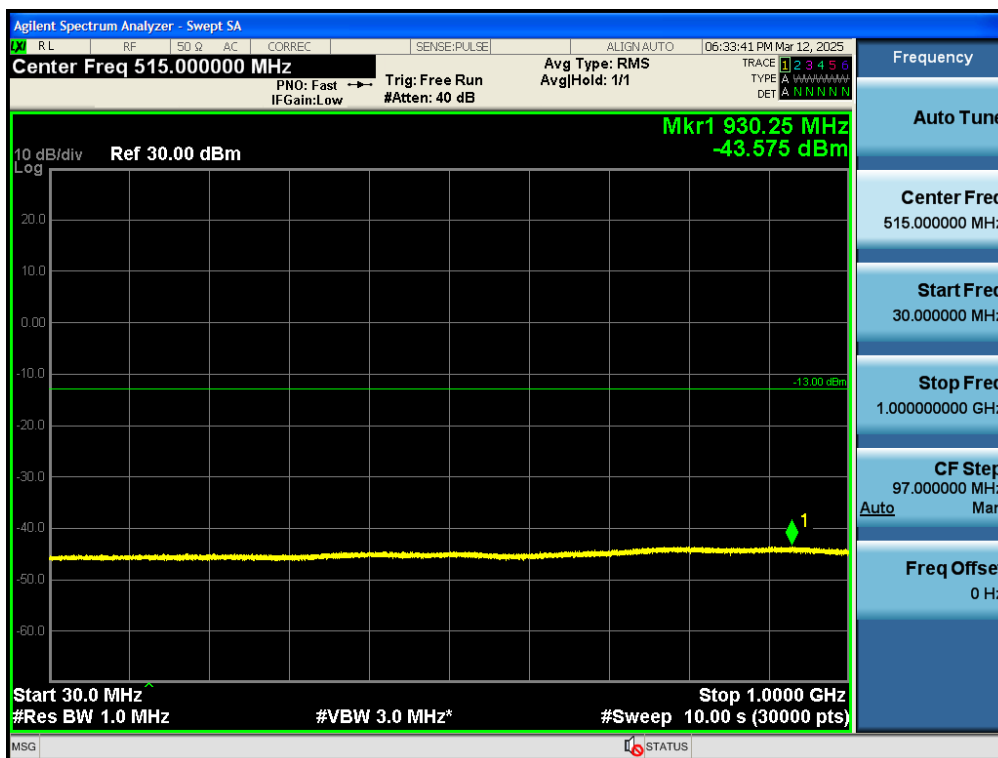
Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



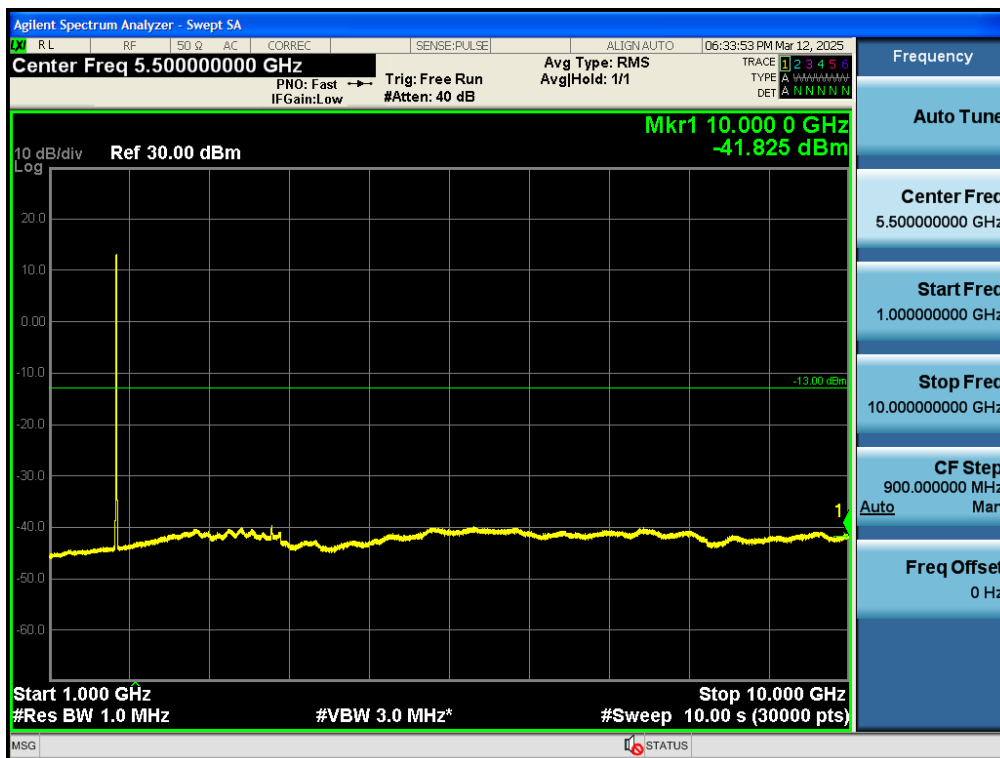
Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_10G_20.0G_TX



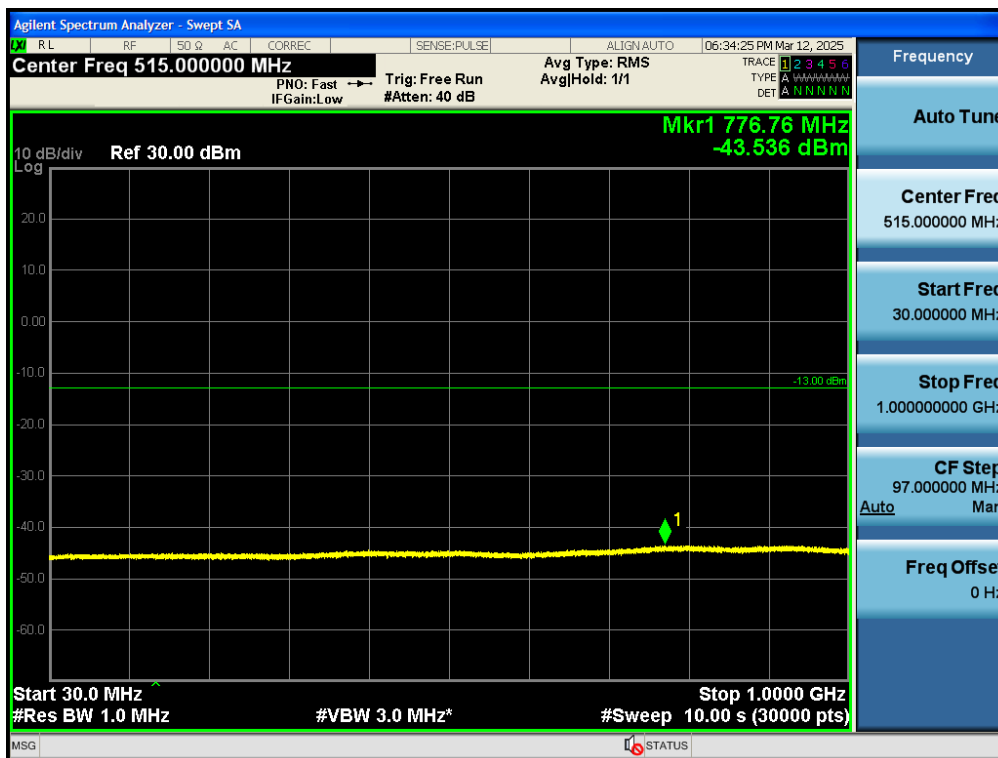
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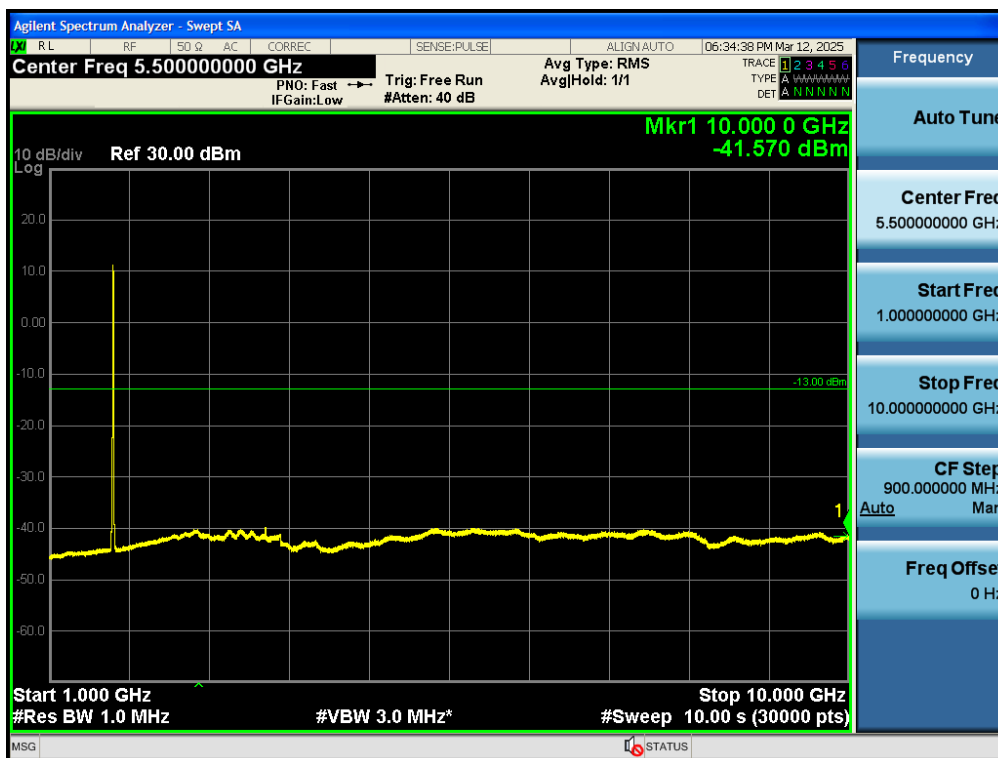
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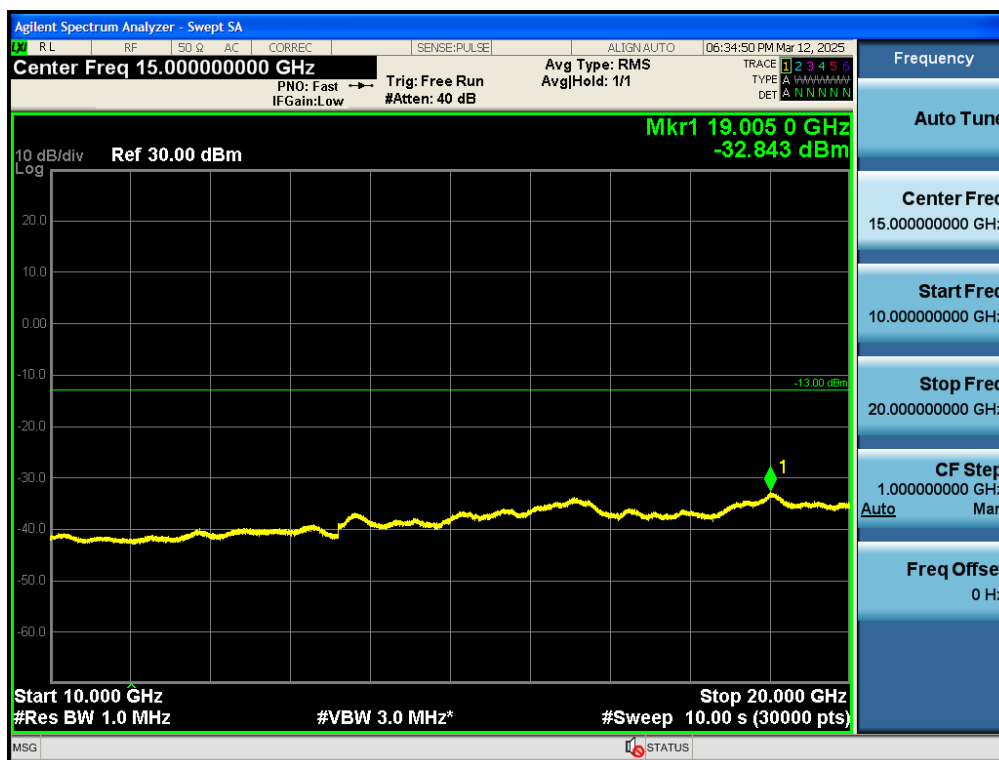
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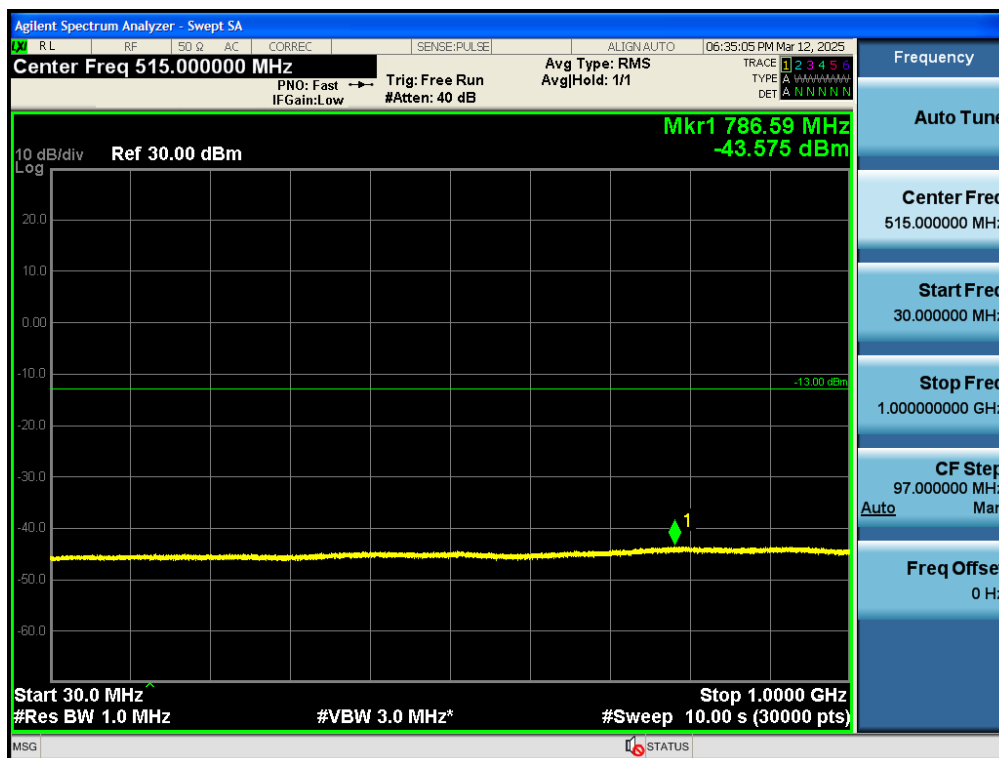
Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_30M_1G_TX



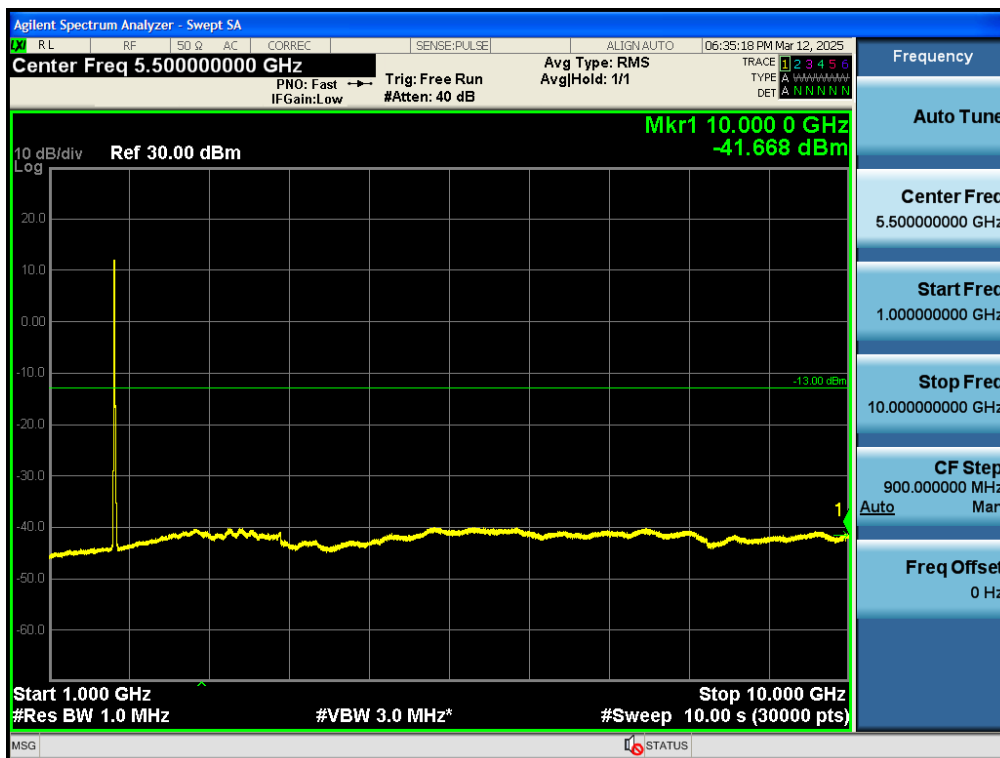
Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



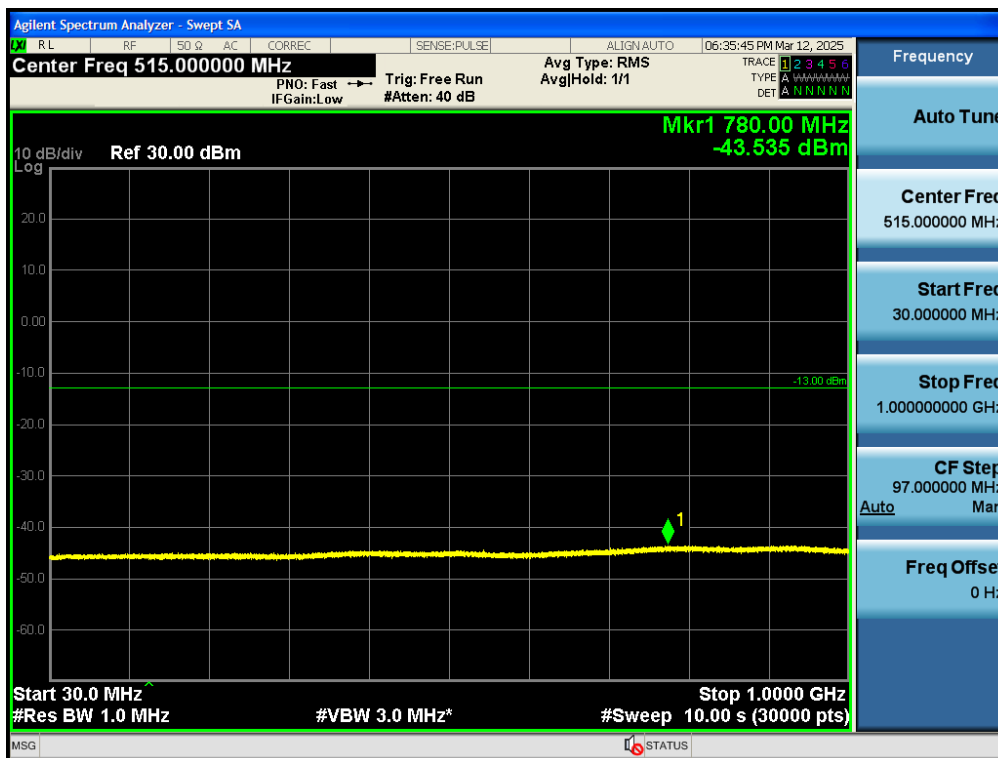
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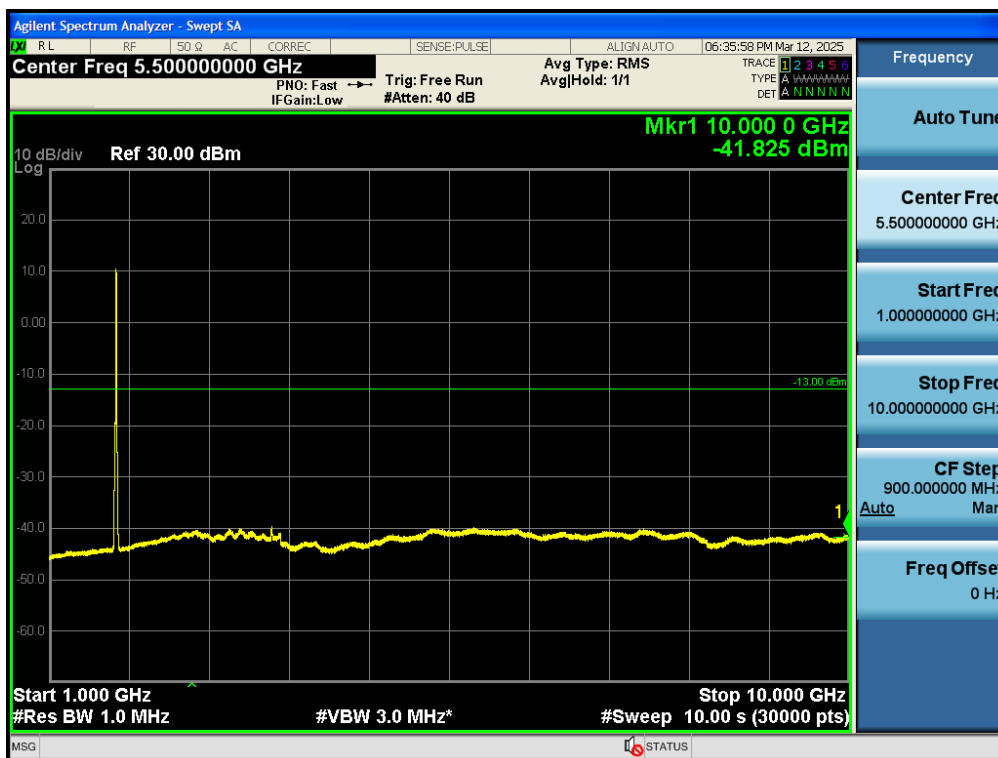
Test_Graph_band4_1732.5MHz_10M_QPSK_50RB#LOW_1G_10G_TX



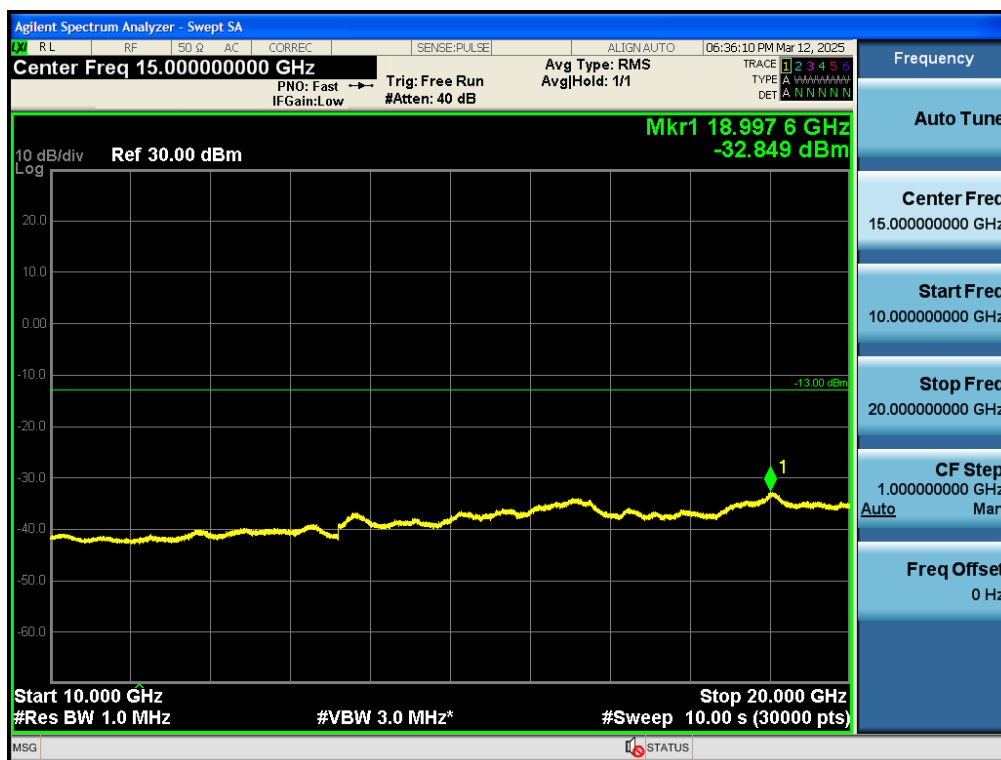
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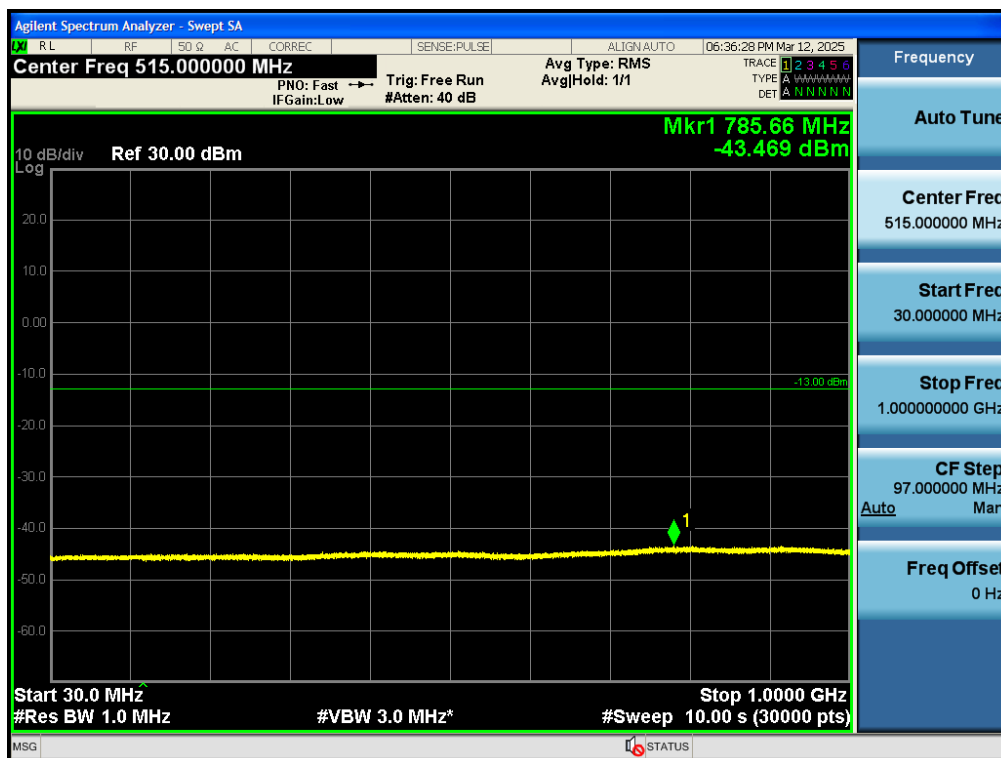
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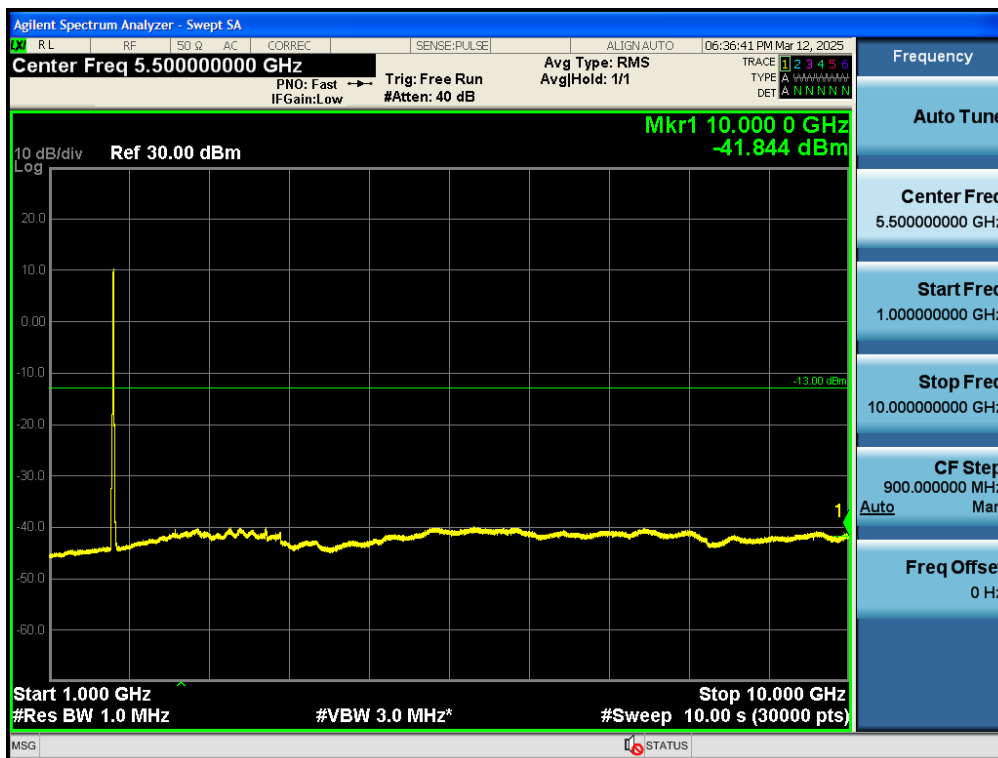
Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



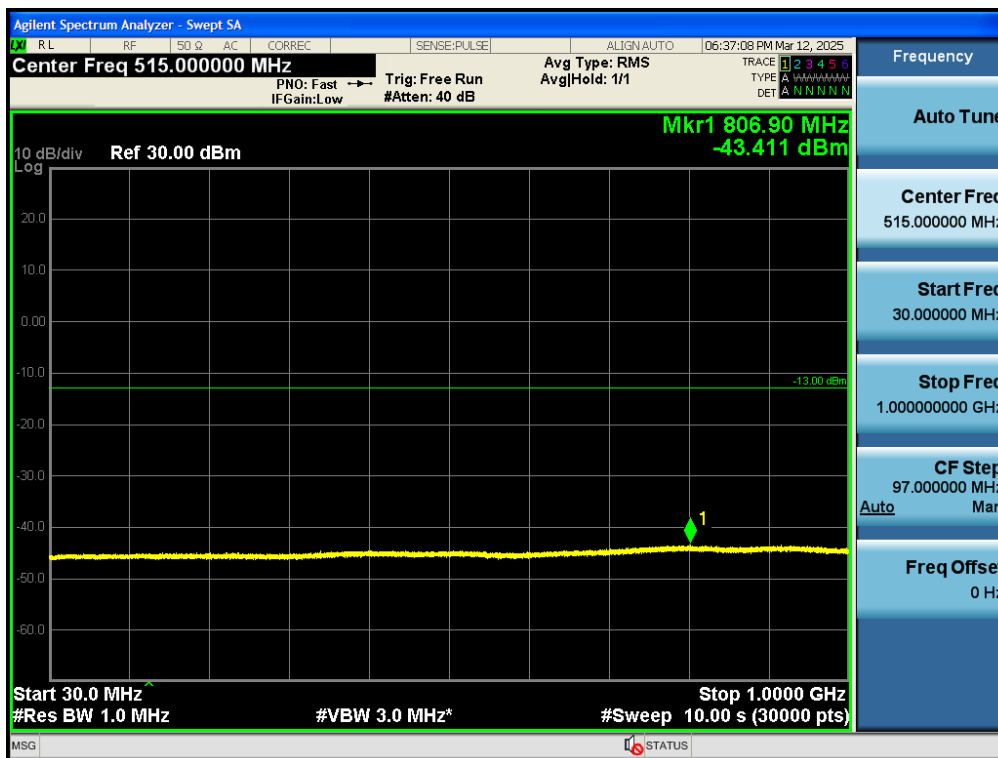
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



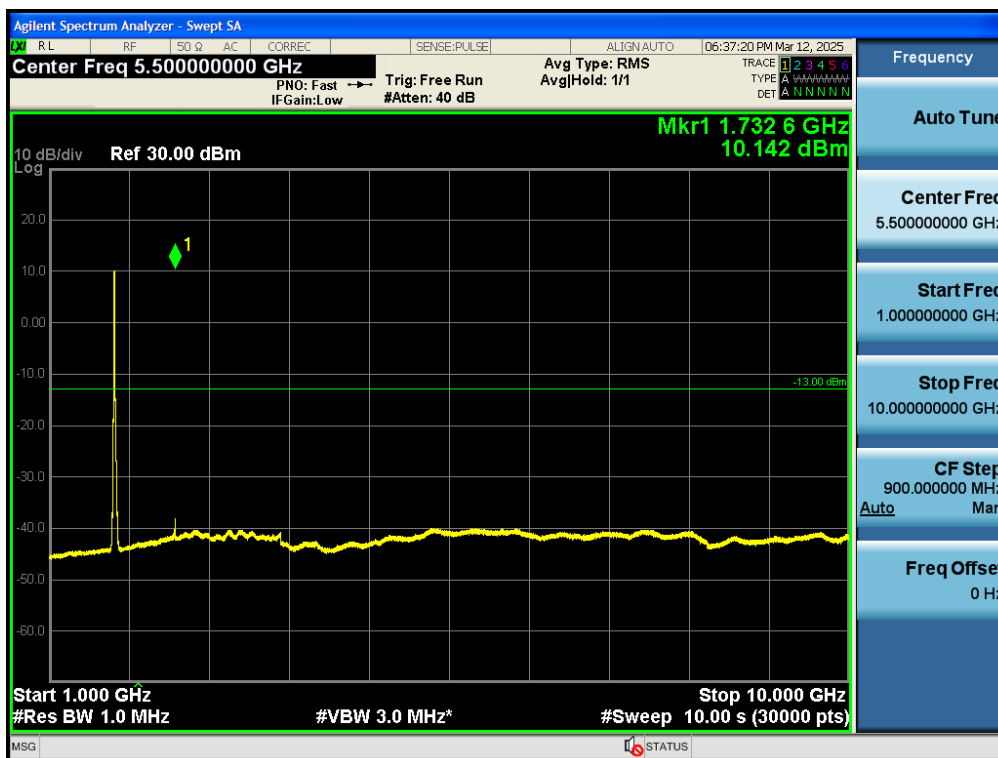
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



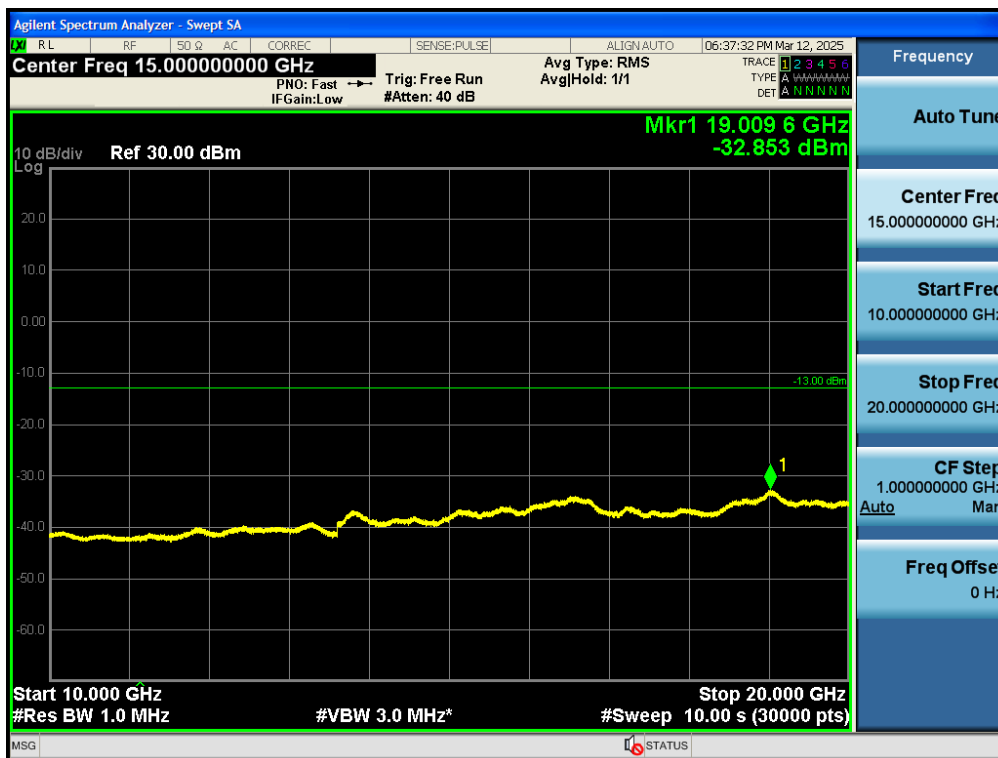
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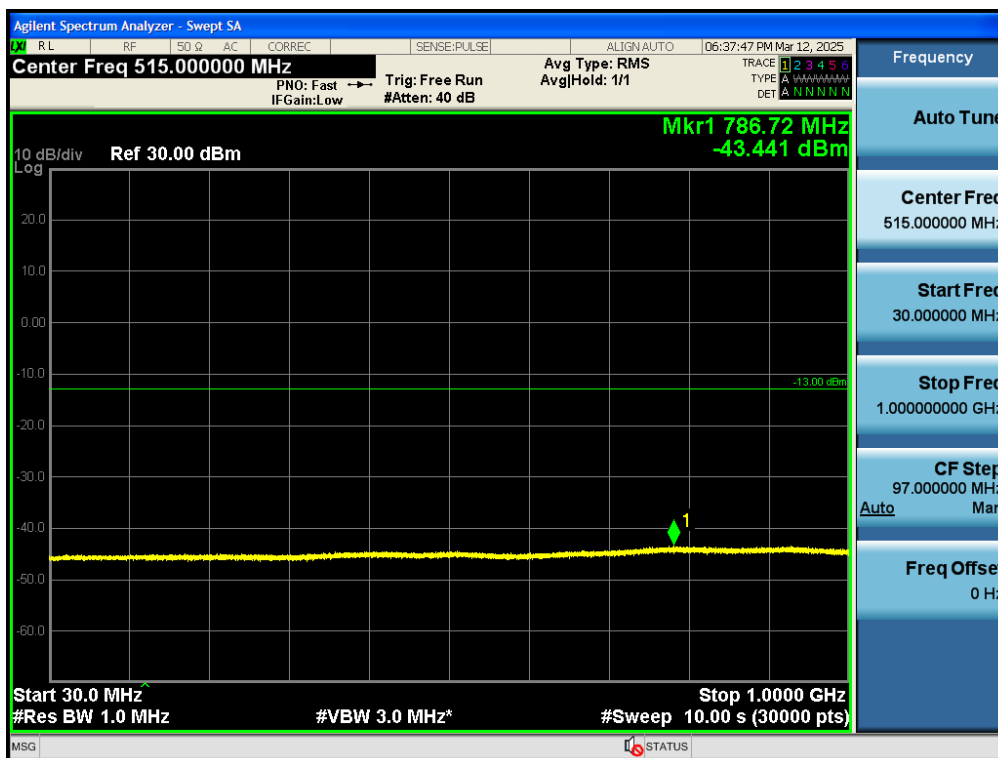
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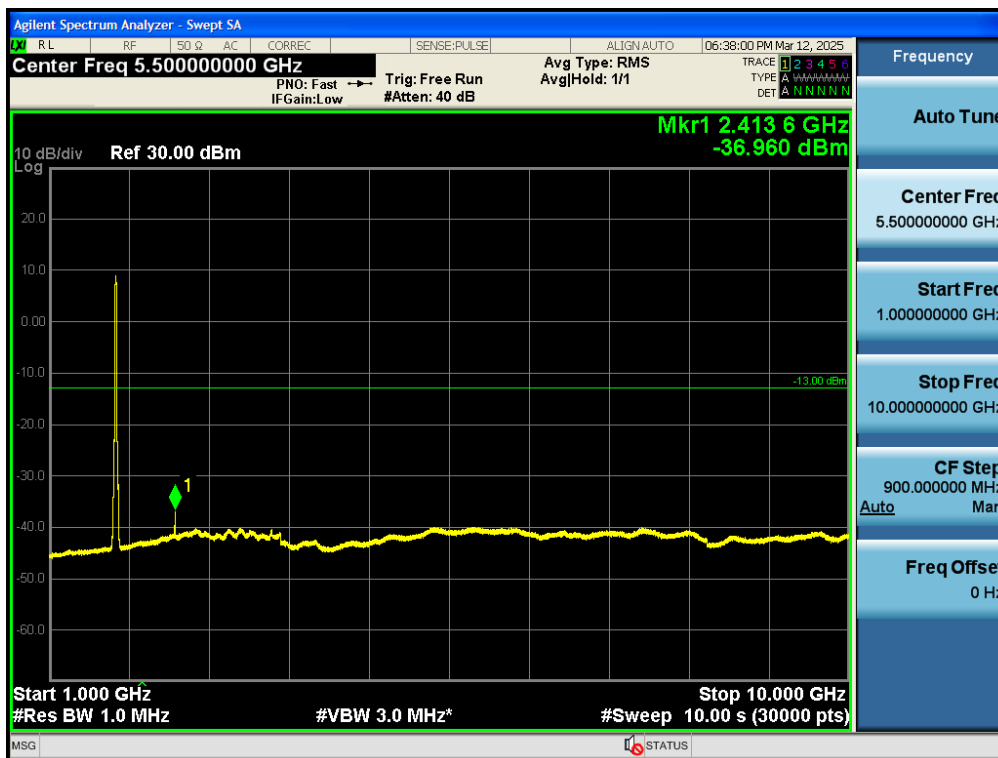
Test_Graph_band4_1732.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



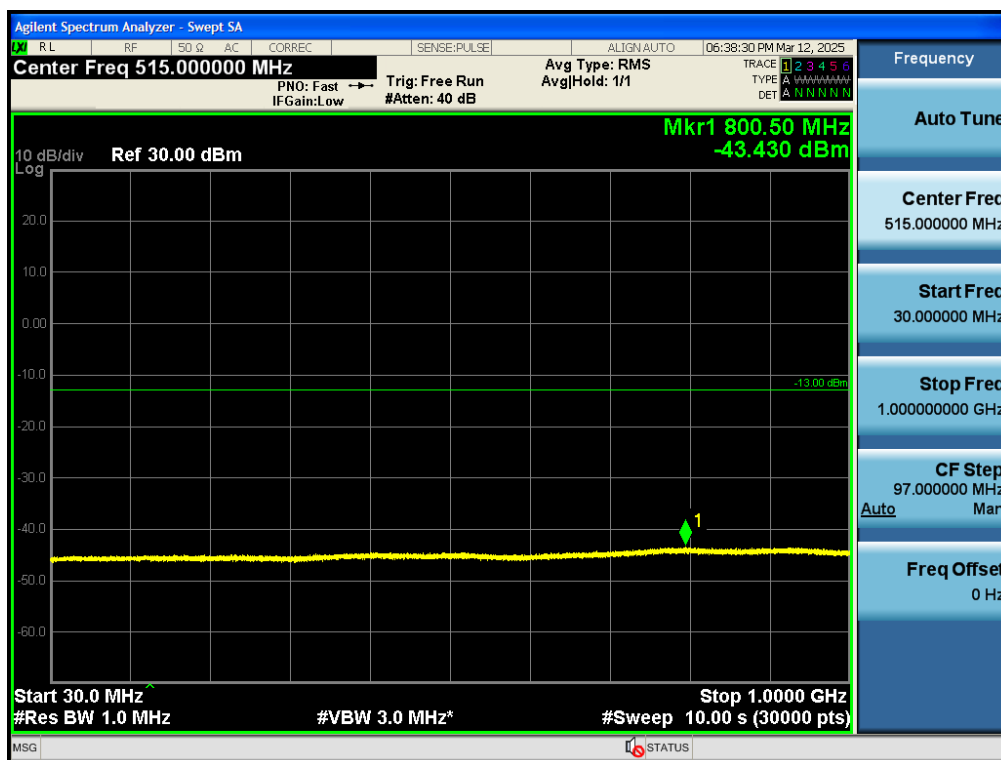
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Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



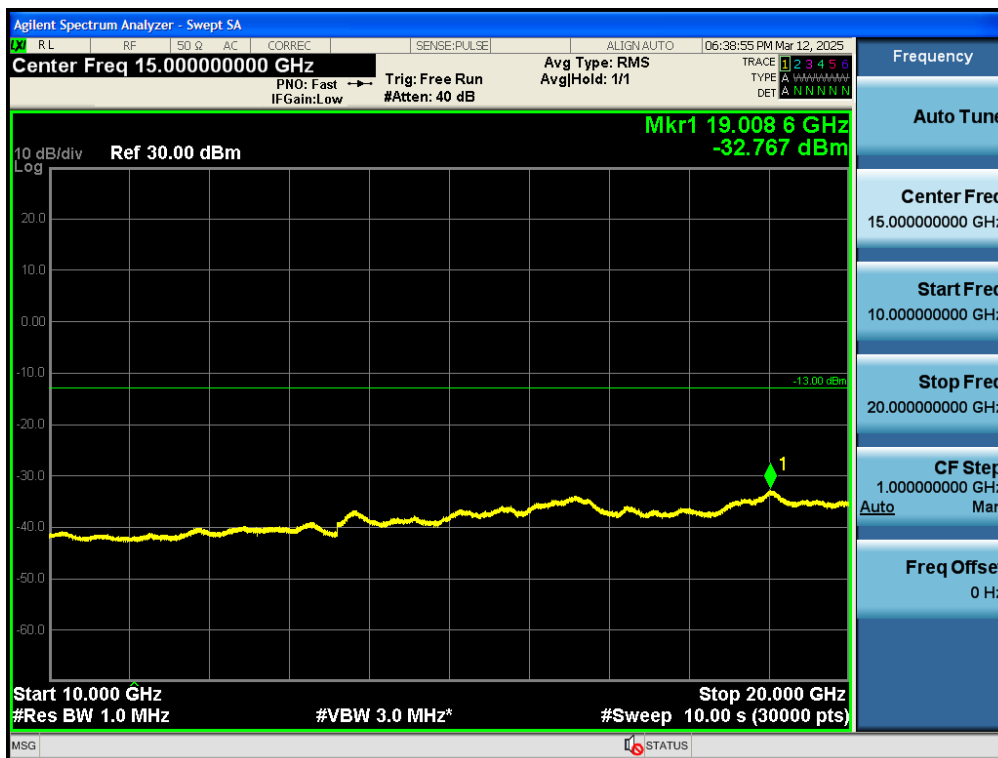
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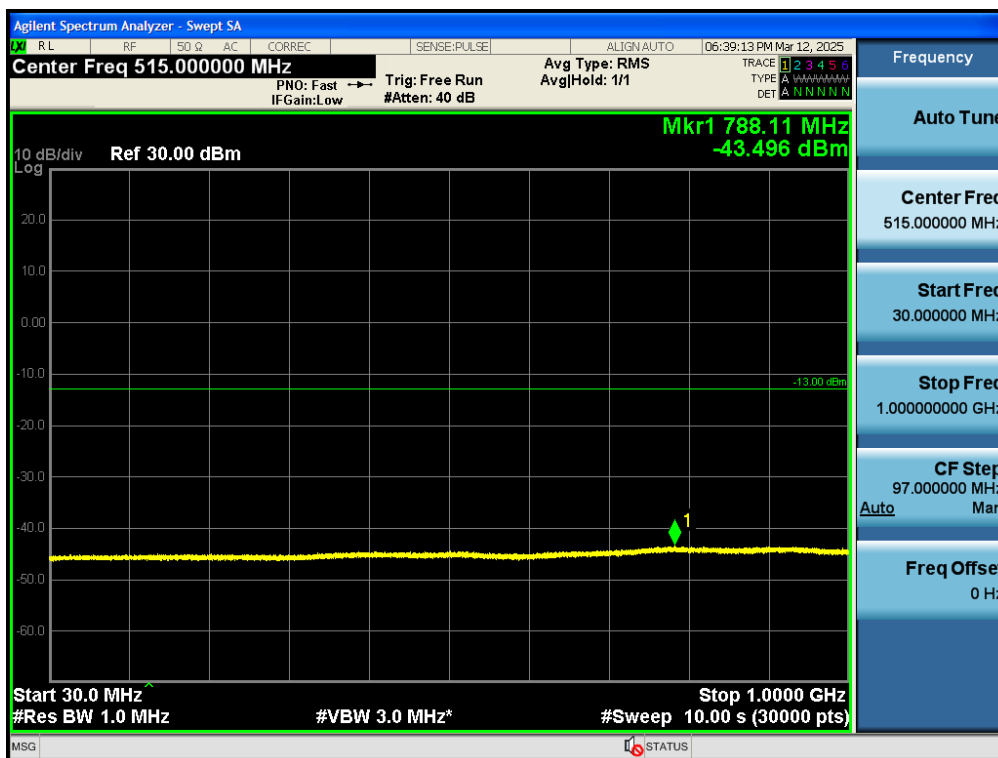
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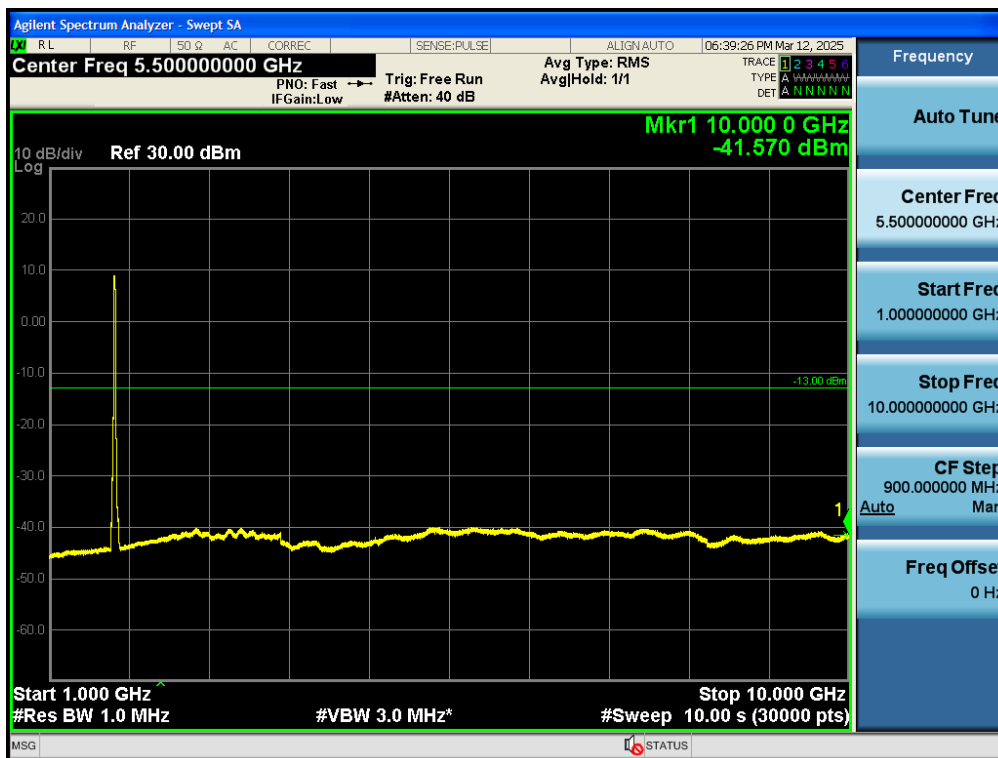
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Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX



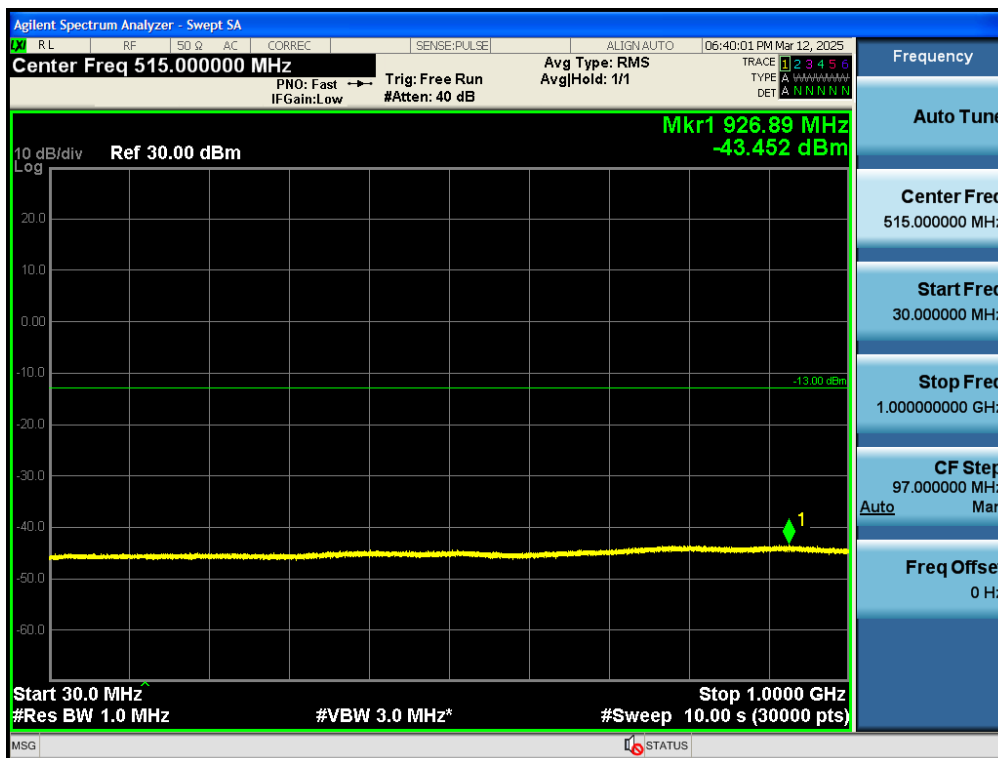
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Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_1G_20.0G_TX



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX

Appendix E: Frequency stability

Test Result

Test Conditions		LTE Band 4(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0057	PASS
40	Normal Voltage	0.0071	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0052	
10	Normal Voltage	0.0071	
0	Normal Voltage	0.0077	
-10	Normal Voltage	0.0060	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0075	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0057	
20	Battery End Point	0.0066	