

Appendix Test Data for LTE band 7 (Conducted Measurement)

Product Name: Voter Identification Unit

Trade Mark: SMARTMATIC

Test Model: VIU-500 Model 700

FCC ID: 2AGVK-VIU-500A70-R2

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
7	5	2502.5	QPSK	25	LOW	21.08	27.07	5.98	13	1.88	22.96	33	Pass
7	5	2502.5	QPSK	12	LOW	21.09	26.96	5.88	13	1.88	22.97	33	Pass
7	5	2502.5	QPSK	12	MID	21.06	26.94	5.88	13	1.88	22.94	33	Pass
7	5	2502.5	QPSK	12	HIGH	21.13	26.95	5.83	13	1.88	23.01	33	Pass
7	5	2502.5	QPSK	1	LOW	21.97	26.94	4.97	13	1.88	23.85	33	Pass
7	5	2502.5	QPSK	1	MID	22.10	27.03	4.92	13	1.88	23.98	33	Pass
7	5	2502.5	QPSK	1	HIGH	21.98	26.97	5.00	13	1.88	23.86	33	Pass
7	5	2502.5	16QAM	25	LOW	20.18	27.14	6.96	13	1.88	22.06	33	Pass
7	5	2502.5	16QAM	12	LOW	20.05	26.74	6.69	13	1.88	21.93	33	Pass
7	5	2502.5	16QAM	12	MID	20.04	26.74	6.70	13	1.88	21.92	33	Pass
7	5	2502.5	16QAM	12	HIGH	20.09	26.78	6.69	13	1.88	21.97	33	Pass
7	5	2502.5	16QAM	1	LOW	21.09	26.91	5.81	13	1.88	22.97	33	Pass
7	5	2502.5	16QAM	1	MID	21.25	27.01	5.76	13	1.88	23.13	33	Pass
7	5	2502.5	16QAM	1	HIGH	21.08	26.93	5.85	13	1.88	22.96	33	Pass
7	5	2535	QPSK	25	LOW	21.06	27.21	6.14	13	1.88	22.94	33	Pass
7	5	2535	QPSK	12	LOW	21.07	26.64	5.57	13	1.88	22.95	33	Pass
7	5	2535	QPSK	12	MID	21.12	26.68	5.56	13	1.88	23.00	33	Pass
7	5	2535	QPSK	12	HIGH	21.12	26.68	5.55	13	1.88	23.00	33	Pass
7	5	2535	QPSK	1	LOW	21.98	27.03	5.05	13	1.88	23.86	33	Pass
7	5	2535	QPSK	1	MID	22.14	27.06	4.92	13	1.88	24.02	33	Pass
7	5	2535	QPSK	1	HIGH	21.94	27.01	5.08	13	1.88	23.82	33	Pass
7	5	2535	16QAM	25	LOW	20.12	26.91	6.79	13	1.88	22.00	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
7	5	2535	16QAM	12	LOW	20.11	27.23	7.11	13	1.88	21.99	33	Pass
7	5	2535	16QAM	12	MID	20.06	27.21	7.15	13	1.88	21.94	33	Pass
7	5	2535	16QAM	12	HIGH	20.09	27.20	7.11	13	1.88	21.97	33	Pass
7	5	2535	16QAM	1	LOW	20.91	26.15	5.24	13	1.88	22.79	33	Pass
7	5	2535	16QAM	1	MID	21.05	26.25	5.20	13	1.88	22.93	33	Pass
7	5	2535	16QAM	1	HIGH	20.90	26.16	5.25	13	1.88	22.78	33	Pass
7	5	2567.5	QPSK	25	LOW	21.02	26.80	5.78	13	1.88	22.90	33	Pass
7	5	2567.5	QPSK	12	LOW	21.06	27.00	5.94	13	1.88	22.94	33	Pass
7	5	2567.5	QPSK	12	MID	21.08	27.01	5.94	13	1.88	22.96	33	Pass
7	5	2567.5	QPSK	12	HIGH	21.01	27.00	5.99	13	1.88	22.89	33	Pass
7	5	2567.5	QPSK	1	LOW	21.96	26.65	4.69	13	1.88	23.84	33	Pass
7	5	2567.5	QPSK	1	MID	22.09	26.68	4.59	13	1.88	23.97	33	Pass
7	5	2567.5	QPSK	1	HIGH	21.95	26.72	4.76	13	1.88	23.83	33	Pass
7	5	2567.5	16QAM	25	LOW	20.02	26.96	6.95	13	1.88	21.90	33	Pass
7	5	2567.5	16QAM	12	LOW	20.09	26.71	6.62	13	1.88	21.97	33	Pass
7	5	2567.5	16QAM	12	MID	20.10	26.73	6.63	13	1.88	21.98	33	Pass
7	5	2567.5	16QAM	12	HIGH	20.01	26.66	6.65	13	1.88	21.89	33	Pass
7	5	2567.5	16QAM	1	LOW	21.24	26.48	5.24	13	1.88	23.12	33	Pass
7	5	2567.5	16QAM	1	MID	21.42	26.57	5.15	13	1.88	23.30	33	Pass
7	5	2567.5	16QAM	1	HIGH	21.24	26.57	5.33	13	1.88	23.12	33	Pass
7	10	2505	QPSK	50	LOW	21.08	27.32	6.24	13	1.88	22.96	33	Pass
7	10	2505	QPSK	25	LOW	21.10	27.64	6.54	13	1.88	22.98	33	Pass
7	10	2505	QPSK	25	MID	21.10	27.61	6.51	13	1.88	22.98	33	Pass
7	10	2505	QPSK	25	HIGH	21.15	27.62	6.47	13	1.88	23.03	33	Pass
7	10	2505	QPSK	1	LOW	22.01	26.73	4.72	13	1.88	23.89	33	Pass
7	10	2505	QPSK	1	MID	22.23	26.87	4.64	13	1.88	24.11	33	Pass
7	10	2505	QPSK	1	HIGH	22.07	26.85	4.79	13	1.88	23.95	33	Pass
7	10	2505	16QAM	50	LOW	20.15	27.72	7.57	13	1.88	22.03	33	Pass
7	10	2505	16QAM	25	LOW	20.19	27.29	7.10	13	1.88	22.07	33	Pass
7	10	2505	16QAM	25	MID	20.19	27.31	7.12	13	1.88	22.07	33	Pass
7	10	2505	16QAM	25	HIGH	20.28	27.44	7.16	13	1.88	22.16	33	Pass
7	10	2505	16QAM	1	LOW	21.05	26.32	5.27	13	1.88	22.93	33	Pass
7	10	2505	16QAM	1	MID	21.30	26.50	5.21	13	1.88	23.18	33	Pass
7	10	2505	16QAM	1	HIGH	21.10	26.41	5.31	13	1.88	22.98	33	Pass
7	10	2535	QPSK	50	LOW	21.11	27.24	6.13	13	1.88	22.99	33	Pass
7	10	2535	QPSK	25	LOW	21.12	27.18	6.07	13	1.88	23.00	33	Pass
7	10	2535	QPSK	25	MID	21.12	27.18	6.05	13	1.88	23.00	33	Pass
7	10	2535	QPSK	25	HIGH	21.12	27.16	6.04	13	1.88	23.00	33	Pass
7	10	2535	QPSK	1	LOW	22.08	26.66	4.58	13	1.88	23.96	33	Pass
7	10	2535	QPSK	1	MID	22.21	26.64	4.43	13	1.88	24.09	33	Pass
7	10	2535	QPSK	1	HIGH	21.99	26.57	4.58	13	1.88	23.87	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
7	10	2535	16QAM	50	LOW	20.12	27.52	7.39	13	1.88	22.00	33	Pass
7	10	2535	16QAM	25	LOW	20.17	27.09	6.93	13	1.88	22.05	33	Pass
7	10	2535	16QAM	25	MID	20.18	27.09	6.90	13	1.88	22.06	33	Pass
7	10	2535	16QAM	25	HIGH	20.18	27.08	6.90	13	1.88	22.06	33	Pass
7	10	2535	16QAM	1	LOW	21.69	27.22	5.52	13	1.88	23.57	33	Pass
7	10	2535	16QAM	1	MID	21.77	27.10	5.33	13	1.88	23.65	33	Pass
7	10	2535	16QAM	1	HIGH	21.61	27.08	5.47	13	1.88	23.49	33	Pass
7	10	2565	QPSK	50	LOW	21.01	27.10	6.09	13	1.88	22.89	33	Pass
7	10	2565	QPSK	25	LOW	21.09	27.00	5.91	13	1.88	22.97	33	Pass
7	10	2565	QPSK	25	MID	21.10	27.01	5.90	13	1.88	22.98	33	Pass
7	10	2565	QPSK	25	HIGH	21.06	26.92	5.86	13	1.88	22.94	33	Pass
7	10	2565	QPSK	1	LOW	21.99	26.80	4.82	13	1.88	23.87	33	Pass
7	10	2565	QPSK	1	MID	22.21	26.68	4.47	13	1.88	24.09	33	Pass
7	10	2565	QPSK	1	HIGH	21.96	26.65	4.69	13	1.88	23.84	33	Pass
7	10	2565	16QAM	50	LOW	20.04	27.00	6.95	13	1.88	21.92	33	Pass
7	10	2565	16QAM	25	LOW	20.11	26.98	6.87	13	1.88	21.99	33	Pass
7	10	2565	16QAM	25	MID	20.15	27.00	6.86	13	1.88	22.03	33	Pass
7	10	2565	16QAM	25	HIGH	20.07	26.87	6.80	13	1.88	21.95	33	Pass
7	10	2565	16QAM	1	LOW	21.18	25.97	4.79	13	1.88	23.06	33	Pass
7	10	2565	16QAM	1	MID	21.37	26.00	4.63	13	1.88	23.25	33	Pass
7	10	2565	16QAM	1	HIGH	21.16	25.96	4.79	13	1.88	23.04	33	Pass
7	15	2507.5	QPSK	75	LOW	21.09	27.60	6.51	13	1.88	22.97	33	Pass
7	15	2507.5	QPSK	38	LOW	21.10	27.64	6.53	13	1.88	22.98	33	Pass
7	15	2507.5	QPSK	38	MID	21.13	27.66	6.54	13	1.88	23.01	33	Pass
7	15	2507.5	QPSK	38	HIGH	21.11	27.68	6.57	13	1.88	22.99	33	Pass
7	15	2507.5	QPSK	1	LOW	21.92	26.42	4.49	13	1.88	23.80	33	Pass
7	15	2507.5	QPSK	1	MID	22.12	26.59	4.47	13	1.88	24.00	33	Pass
7	15	2507.5	QPSK	1	HIGH	22.00	26.54	4.54	13	1.88	23.88	33	Pass
7	15	2507.5	16QAM	75	LOW	20.09	27.33	7.25	13	1.88	21.97	33	Pass
7	15	2507.5	16QAM	38	LOW	20.11	27.33	7.22	13	1.88	21.99	33	Pass
7	15	2507.5	16QAM	38	MID	20.08	27.33	7.25	13	1.88	21.96	33	Pass
7	15	2507.5	16QAM	38	HIGH	20.10	27.38	7.27	13	1.88	21.98	33	Pass
7	15	2507.5	16QAM	1	LOW	21.38	26.39	5.01	13	1.88	23.26	33	Pass
7	15	2507.5	16QAM	1	MID	21.56	26.55	4.99	13	1.88	23.44	33	Pass
7	15	2507.5	16QAM	1	HIGH	21.43	26.49	5.06	13	1.88	23.31	33	Pass
7	15	2535	QPSK	75	LOW	21.11	27.67	6.56	13	1.88	22.99	33	Pass
7	15	2535	QPSK	38	LOW	21.12	27.72	6.60	13	1.88	23.00	33	Pass
7	15	2535	QPSK	38	MID	21.11	27.65	6.54	13	1.88	22.99	33	Pass
7	15	2535	QPSK	38	HIGH	21.13	27.71	6.58	13	1.88	23.01	33	Pass
7	15	2535	QPSK	1	LOW	22.00	26.62	4.63	13	1.88	23.88	33	Pass
7	15	2535	QPSK	1	MID	22.05	26.54	4.49	13	1.88	23.93	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
7	15	2535	QPSK	1	HIGH	21.87	26.51	4.65	13	1.88	23.75	33	Pass
7	15	2535	16QAM	75	LOW	20.08	27.31	7.23	13	1.88	21.96	33	Pass
7	15	2535	16QAM	38	LOW	20.10	27.27	7.17	13	1.88	21.98	33	Pass
7	15	2535	16QAM	38	MID	20.10	27.15	7.05	13	1.88	21.98	33	Pass
7	15	2535	16QAM	38	HIGH	20.11	27.25	7.14	13	1.88	21.99	33	Pass
7	15	2535	16QAM	1	LOW	21.60	27.21	5.61	13	1.88	23.48	33	Pass
7	15	2535	16QAM	1	MID	21.64	27.04	5.40	13	1.88	23.52	33	Pass
7	15	2535	16QAM	1	HIGH	21.50	27.07	5.57	13	1.88	23.38	33	Pass
7	15	2562.5	QPSK	75	LOW	21.04	27.41	6.37	13	1.88	22.92	33	Pass
7	15	2562.5	QPSK	38	LOW	21.07	27.44	6.37	13	1.88	22.95	33	Pass
7	15	2562.5	QPSK	38	MID	21.08	27.45	6.37	13	1.88	22.96	33	Pass
7	15	2562.5	QPSK	38	HIGH	21.08	27.48	6.41	13	1.88	22.96	33	Pass
7	15	2562.5	QPSK	1	LOW	21.93	26.91	4.98	13	1.88	23.81	33	Pass
7	15	2562.5	QPSK	1	MID	22.03	26.62	4.59	13	1.88	23.91	33	Pass
7	15	2562.5	QPSK	1	HIGH	21.87	26.52	4.65	13	1.88	23.75	33	Pass
7	15	2562.5	16QAM	75	LOW	20.05	27.30	7.25	13	1.88	21.93	33	Pass
7	15	2562.5	16QAM	38	LOW	20.07	27.28	7.21	13	1.88	21.95	33	Pass
7	15	2562.5	16QAM	38	MID	20.05	27.25	7.21	13	1.88	21.93	33	Pass
7	15	2562.5	16QAM	38	HIGH	20.06	27.24	7.17	13	1.88	21.94	33	Pass
7	15	2562.5	16QAM	1	LOW	21.08	25.93	4.85	13	1.88	22.96	33	Pass
7	15	2562.5	16QAM	1	MID	21.20	25.87	4.68	13	1.88	23.08	33	Pass
7	15	2562.5	16QAM	1	HIGH	21.05	25.82	4.77	13	1.88	22.93	33	Pass
7	20	2510	QPSK	100	LOW	21.06	27.52	6.46	13	1.88	22.94	33	Pass
7	20	2510	QPSK	50	LOW	21.04	27.46	6.43	13	1.88	22.92	33	Pass
7	20	2510	QPSK	50	MID	21.03	27.47	6.44	13	1.88	22.91	33	Pass
7	20	2510	QPSK	50	HIGH	21.09	27.60	6.51	13	1.88	22.97	33	Pass
7	20	2510	QPSK	1	LOW	21.75	26.80	5.06	13	1.88	23.63	33	Pass
7	20	2510	QPSK	1	MID	22.25	27.23	4.98	13	1.88	24.13	33	Pass
7	20	2510	QPSK	1	HIGH	21.75	26.89	5.13	13	1.88	23.63	33	Pass
7	20	2510	16QAM	100	LOW	20.10	27.38	7.28	13	1.88	21.98	33	Pass
7	20	2510	16QAM	50	LOW	20.06	27.39	7.33	13	1.88	21.94	33	Pass
7	20	2510	16QAM	50	MID	20.06	27.45	7.39	13	1.88	21.94	33	Pass
7	20	2510	16QAM	50	HIGH	20.11	27.53	7.43	13	1.88	21.99	33	Pass
7	20	2510	16QAM	1	LOW	21.34	26.71	5.37	13	1.88	23.22	33	Pass
7	20	2510	16QAM	1	MID	21.86	27.14	5.28	13	1.88	23.74	33	Pass
7	20	2510	16QAM	1	HIGH	21.40	26.85	5.45	13	1.88	23.28	33	Pass
7	20	2535	QPSK	100	LOW	21.08	27.35	6.27	13	1.88	22.96	33	Pass
7	20	2535	QPSK	50	LOW	21.04	27.31	6.26	13	1.88	22.92	33	Pass
7	20	2535	QPSK	50	MID	21.04	27.30	6.26	13	1.88	22.92	33	Pass
7	20	2535	QPSK	50	HIGH	21.03	27.25	6.22	13	1.88	22.91	33	Pass
7	20	2535	QPSK	1	LOW	21.88	26.97	5.09	13	1.88	23.76	33	Pass

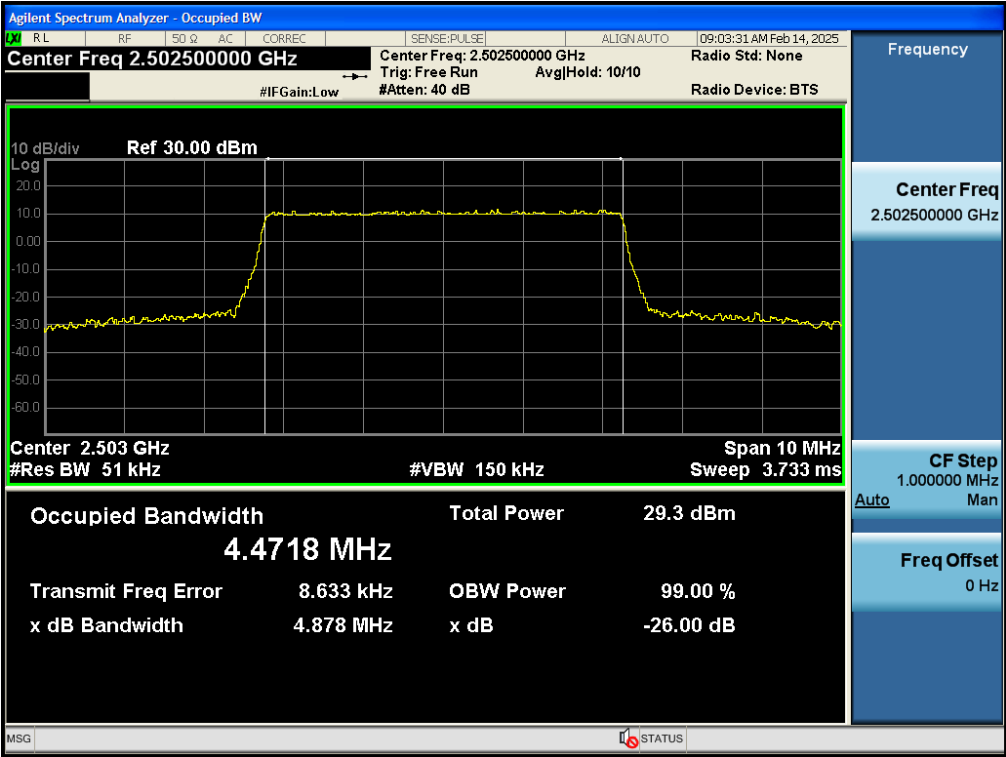
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
7	20	2535	QPSK	1	MID	22.25	26.93	4.69	13	1.88	24.13	33	Pass
7	20	2535	QPSK	1	HIGH	21.72	26.83	5.10	13	1.88	23.60	33	Pass
7	20	2535	16QAM	100	LOW	20.08	27.55	7.48	13	1.88	21.96	33	Pass
7	20	2535	16QAM	50	LOW	20.03	27.39	7.36	13	1.88	21.91	33	Pass
7	20	2535	16QAM	50	MID	20.05	27.44	7.38	13	1.88	21.93	33	Pass
7	20	2535	16QAM	50	HIGH	20.05	27.39	7.35	13	1.88	21.93	33	Pass
7	20	2535	16QAM	1	LOW	21.24	26.76	5.52	13	1.88	23.12	33	Pass
7	20	2535	16QAM	1	MID	21.53	26.74	5.22	13	1.88	23.41	33	Pass
7	20	2535	16QAM	1	HIGH	21.08	26.61	5.53	13	1.88	22.96	33	Pass
7	20	2560	QPSK	100	LOW	21.06	27.41	6.35	13	1.88	22.94	33	Pass
7	20	2560	QPSK	50	LOW	21.06	27.38	6.32	13	1.88	22.94	33	Pass
7	20	2560	QPSK	50	MID	21.05	27.34	6.29	13	1.88	22.93	33	Pass
7	20	2560	QPSK	50	HIGH	20.99	26.99	6.00	13	1.88	22.87	33	Pass
7	20	2560	QPSK	1	LOW	21.84	26.73	4.89	13	1.88	23.72	33	Pass
7	20	2560	QPSK	1	MID	22.18	26.68	4.50	13	1.88	24.06	33	Pass
7	20	2560	QPSK	1	HIGH	21.72	26.33	4.61	13	1.88	23.60	33	Pass
7	20	2560	16QAM	100	LOW	20.06	27.12	7.06	13	1.88	21.94	33	Pass
7	20	2560	16QAM	50	LOW	20.07	27.14	7.07	13	1.88	21.95	33	Pass
7	20	2560	16QAM	50	MID	20.06	27.11	7.05	13	1.88	21.94	33	Pass
7	20	2560	16QAM	50	HIGH	19.99	26.81	6.82	13	1.88	21.87	33	Pass
7	20	2560	16QAM	1	LOW	21.05	26.94	5.90	13	1.88	22.93	33	Pass
7	20	2560	16QAM	1	MID	21.37	26.82	5.45	13	1.88	23.25	33	Pass
7	20	2560	16QAM	1	HIGH	20.94	26.48	5.54	13	1.88	22.82	33	Pass

Appendix B: Occupied bandwidth

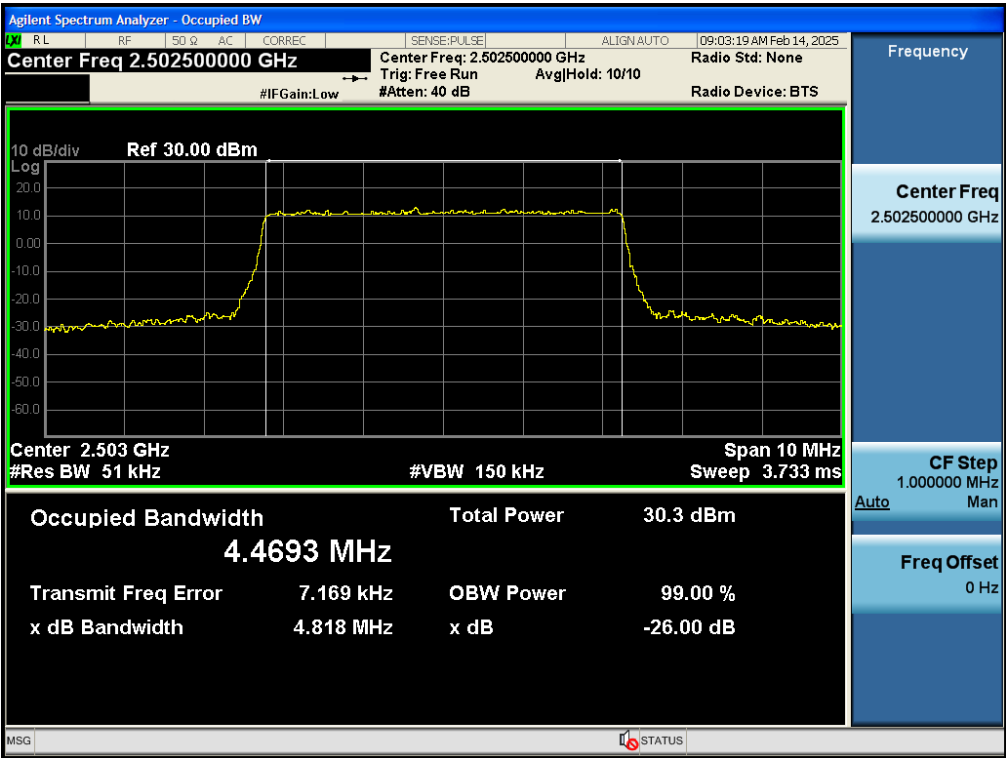
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
7	5	2502.5	QPSK	25	LOW	4.469	4.818	No limit
7	5	2502.5	16QAM	25	LOW	4.472	4.878	No limit
7	5	2535	QPSK	25	LOW	4.477	4.87	No limit
7	5	2535	16QAM	25	LOW	4.471	4.781	No limit
7	5	2567.5	QPSK	25	LOW	4.488	4.848	No limit
7	5	2567.5	16QAM	25	LOW	4.47	4.855	No limit
7	10	2505	QPSK	50	LOW	8.957	9.584	No limit
7	10	2505	16QAM	50	LOW	8.951	9.618	No limit
7	10	2535	QPSK	50	LOW	8.952	9.629	No limit
7	10	2535	16QAM	50	LOW	8.95	9.487	No limit
7	10	2565	QPSK	50	LOW	8.942	9.546	No limit
7	10	2565	16QAM	50	LOW	8.953	9.566	No limit
7	15	2507.5	QPSK	75	LOW	13.421	14.435	No limit
7	15	2507.5	16QAM	75	LOW	13.424	14.231	No limit
7	15	2535	QPSK	75	LOW	13.448	14.453	No limit
7	15	2535	16QAM	75	LOW	13.418	14.344	No limit
7	15	2562.5	QPSK	75	LOW	13.403	14.317	No limit
7	15	2562.5	16QAM	75	LOW	13.421	14.353	No limit
7	20	2510	QPSK	100	LOW	17.885	19.204	No limit
7	20	2510	16QAM	100	LOW	17.864	19.059	No limit
7	20	2535	QPSK	100	LOW	17.903	18.997	No limit
7	20	2535	16QAM	100	LOW	17.925	19.036	No limit
7	20	2560	QPSK	100	LOW	17.861	18.983	No limit
7	20	2560	16QAM	100	LOW	17.89	18.992	No limit

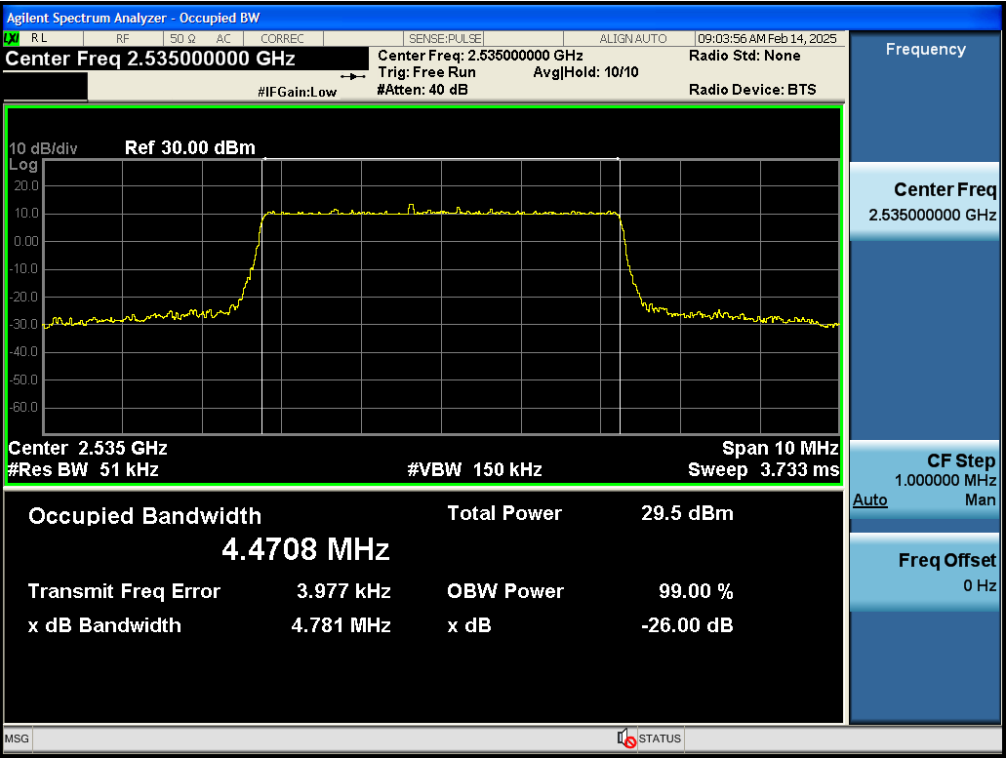
Test Graphs



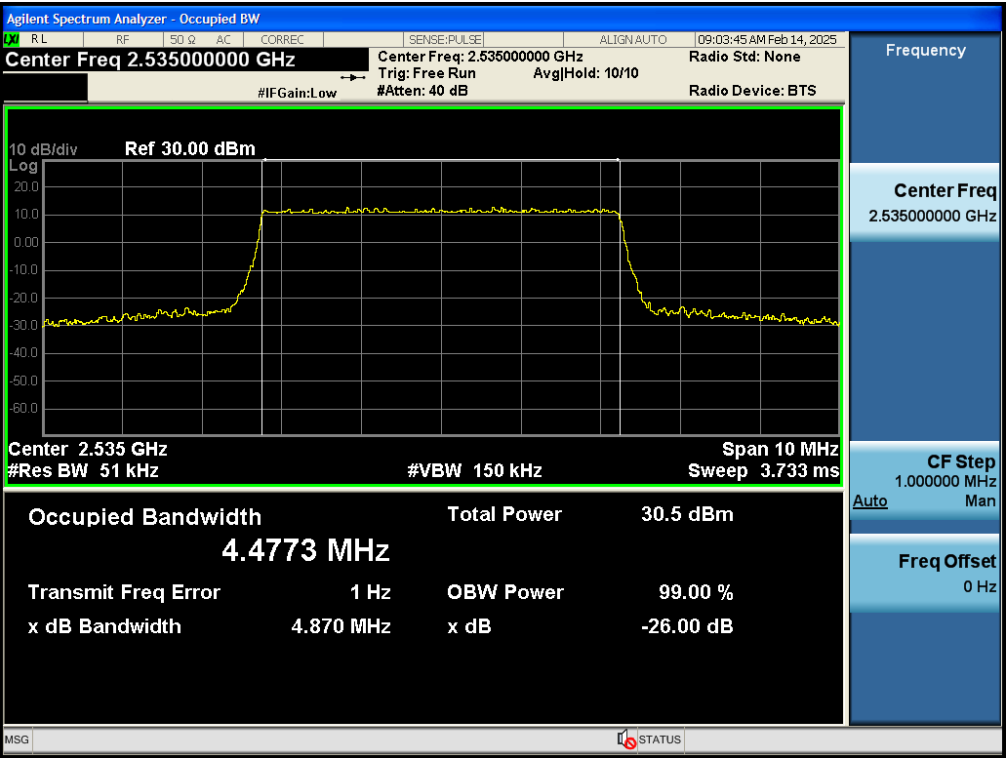
Test_Graph_band7_2502.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



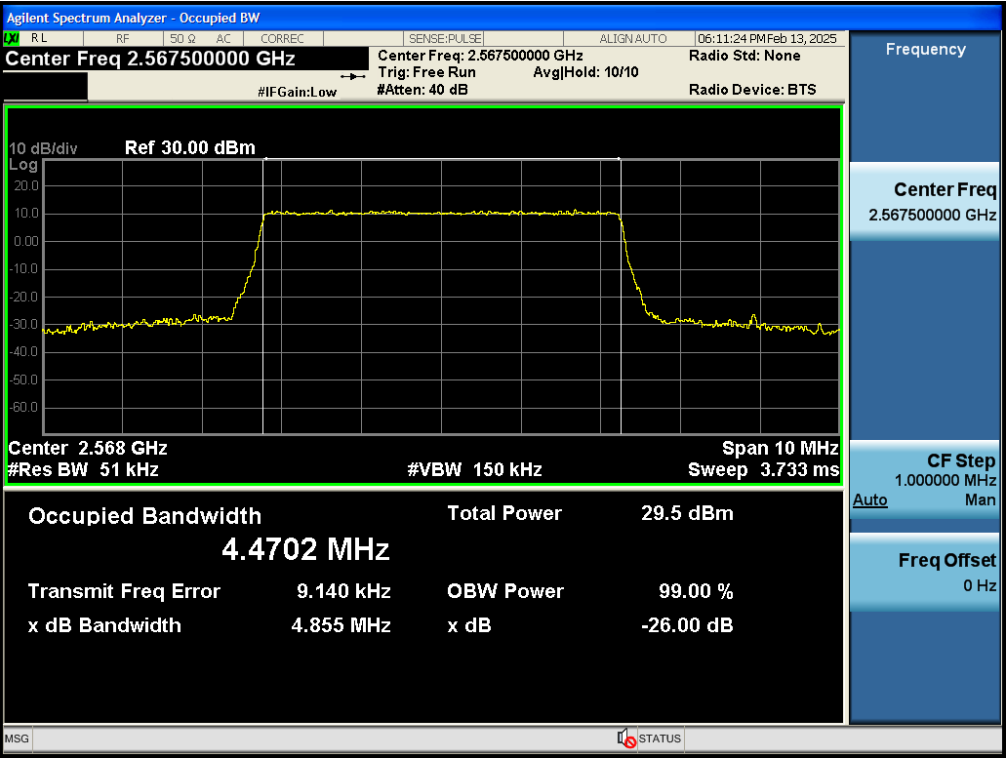
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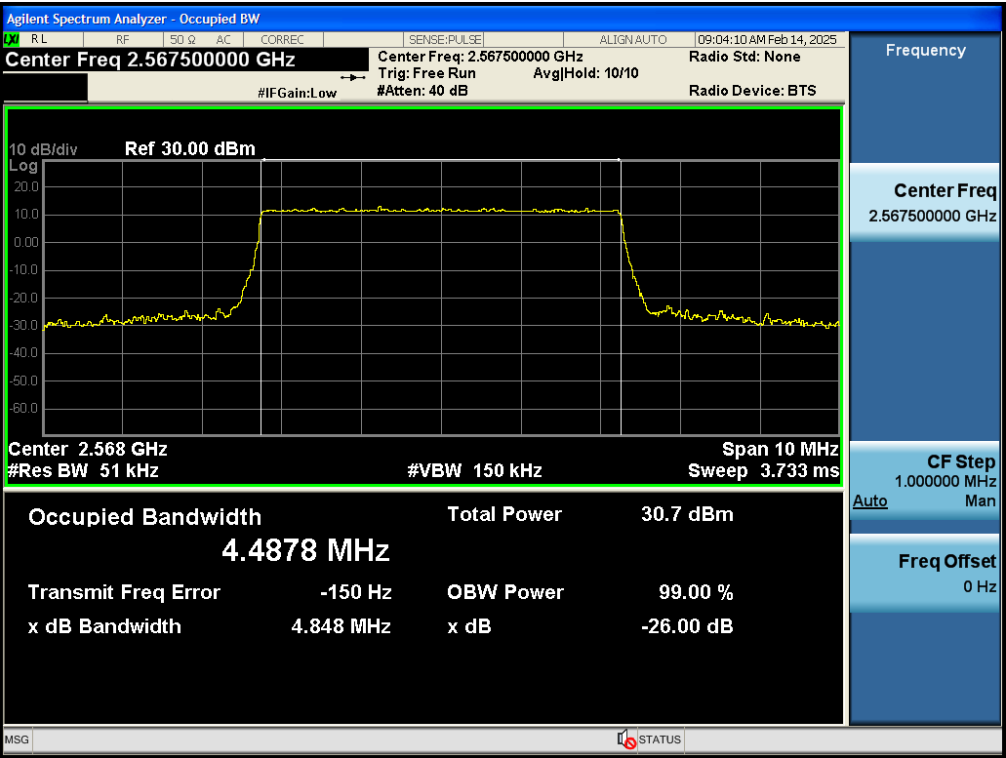
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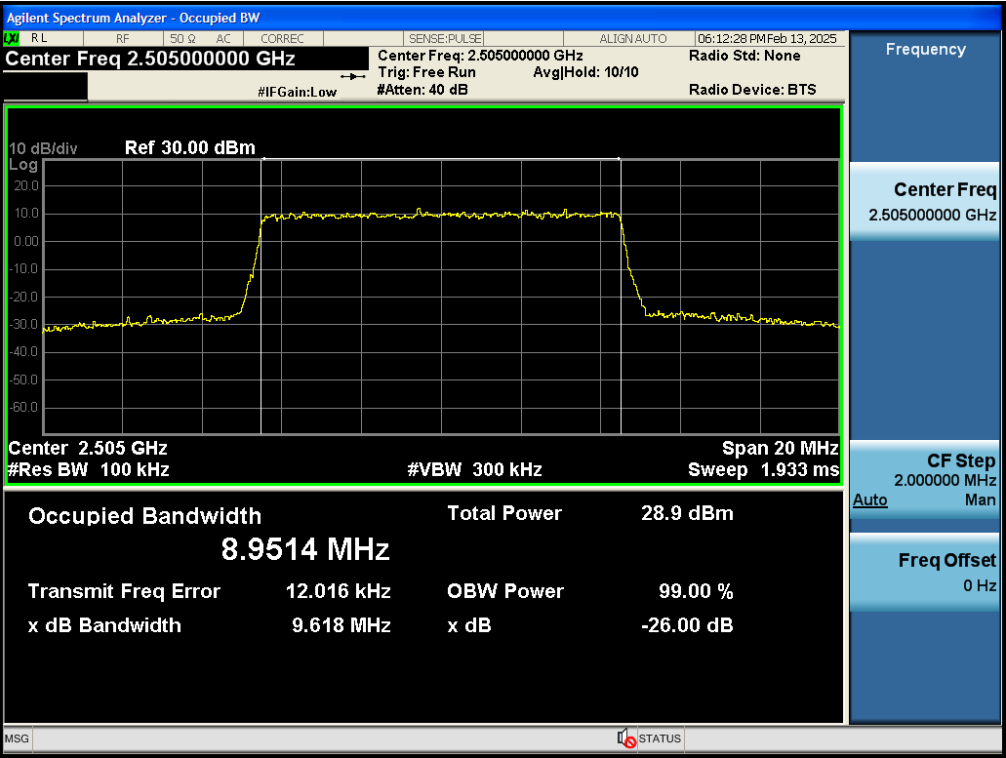
Test_Graph_band7_2535MHz_5M_QPSK_25RB#LOW_OBW&EBW



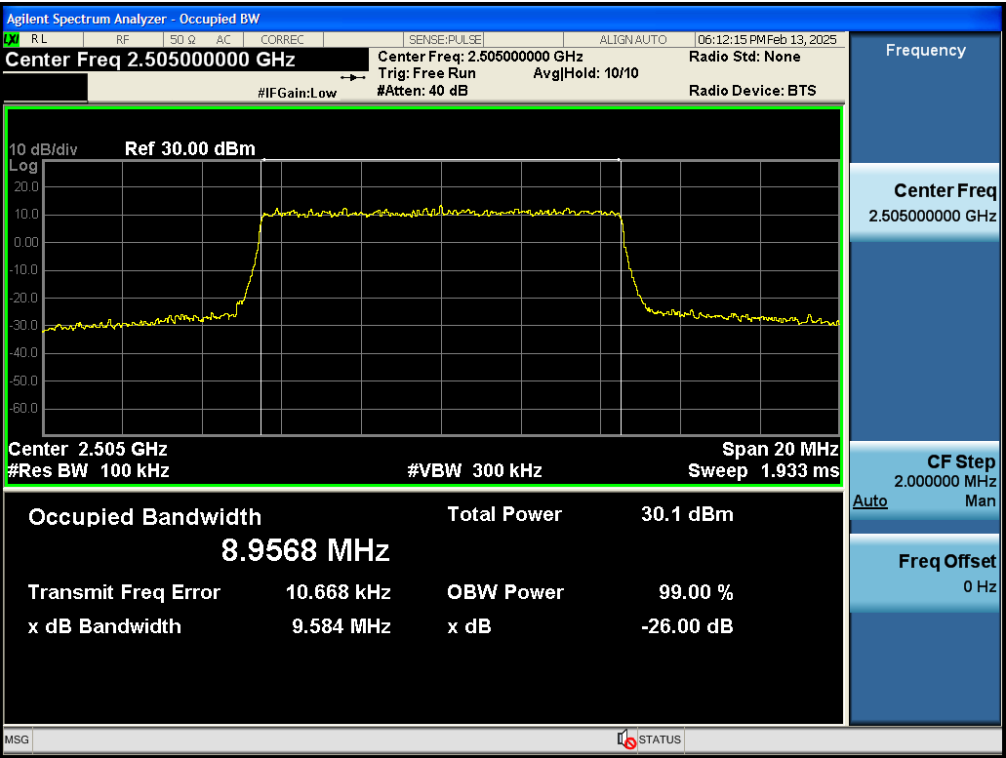
Test_Graph_band7_2567.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



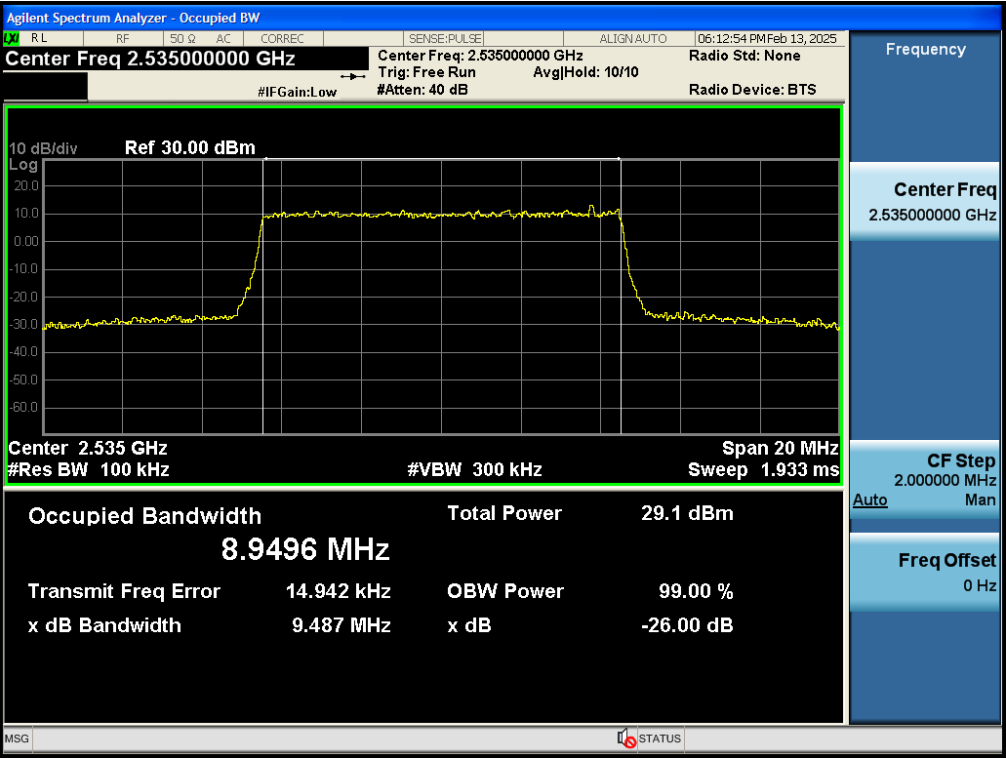
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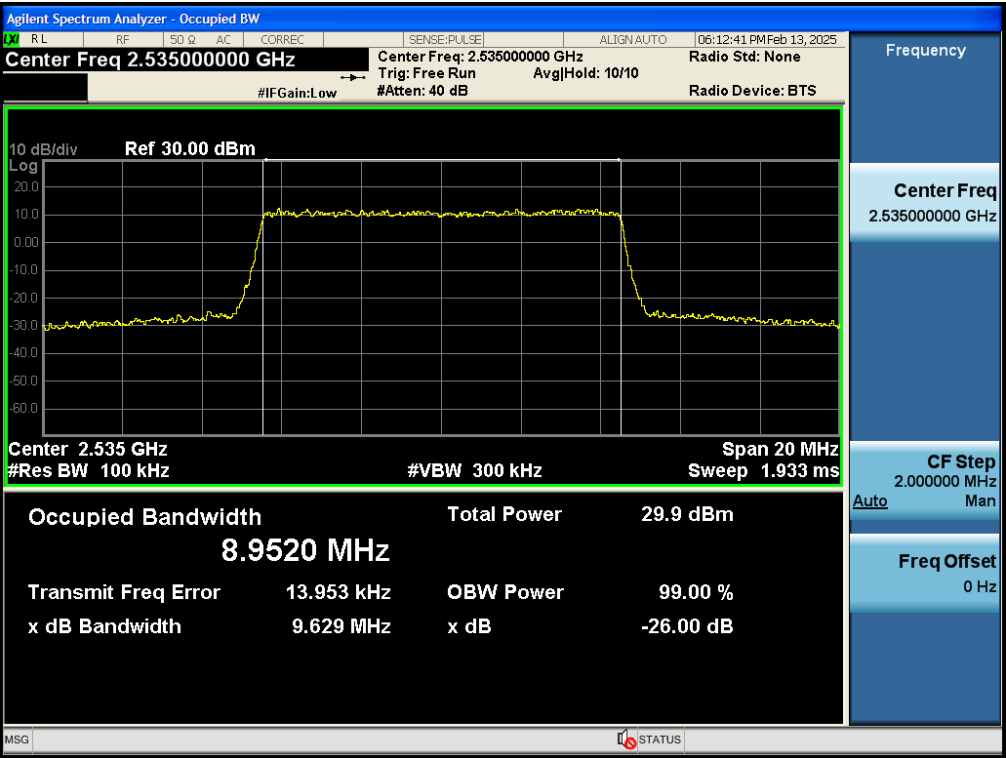
Test_Graph_band7_2505MHz_10M_16QAM_50RB#LOW_OBW&EBW



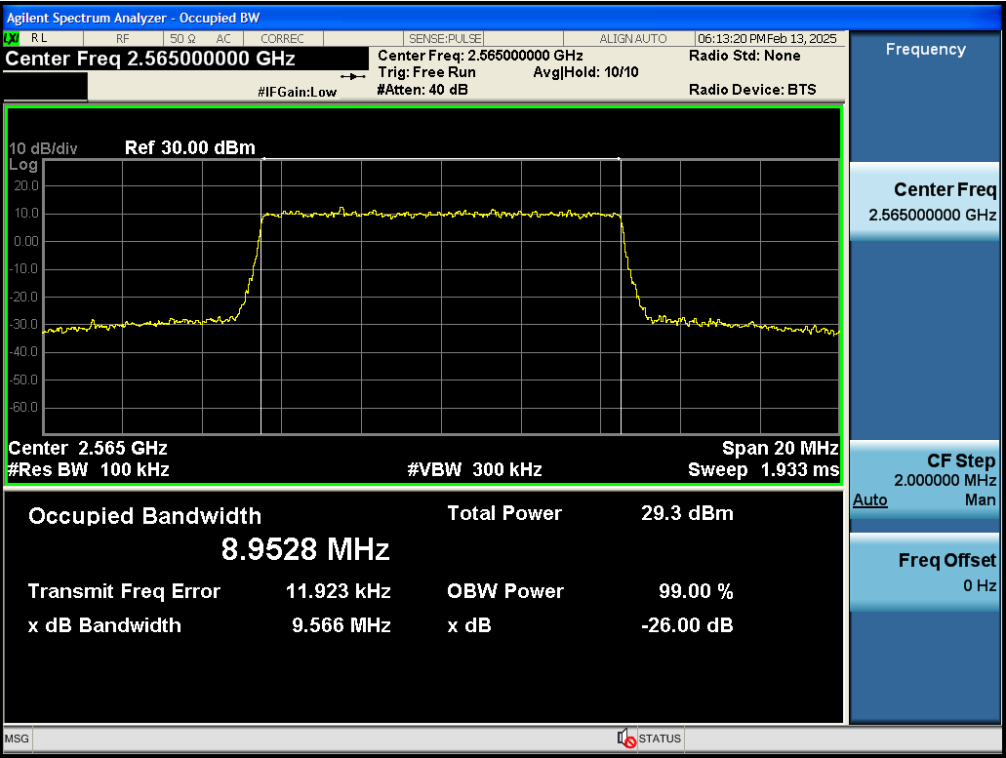
Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_OBW&EBW



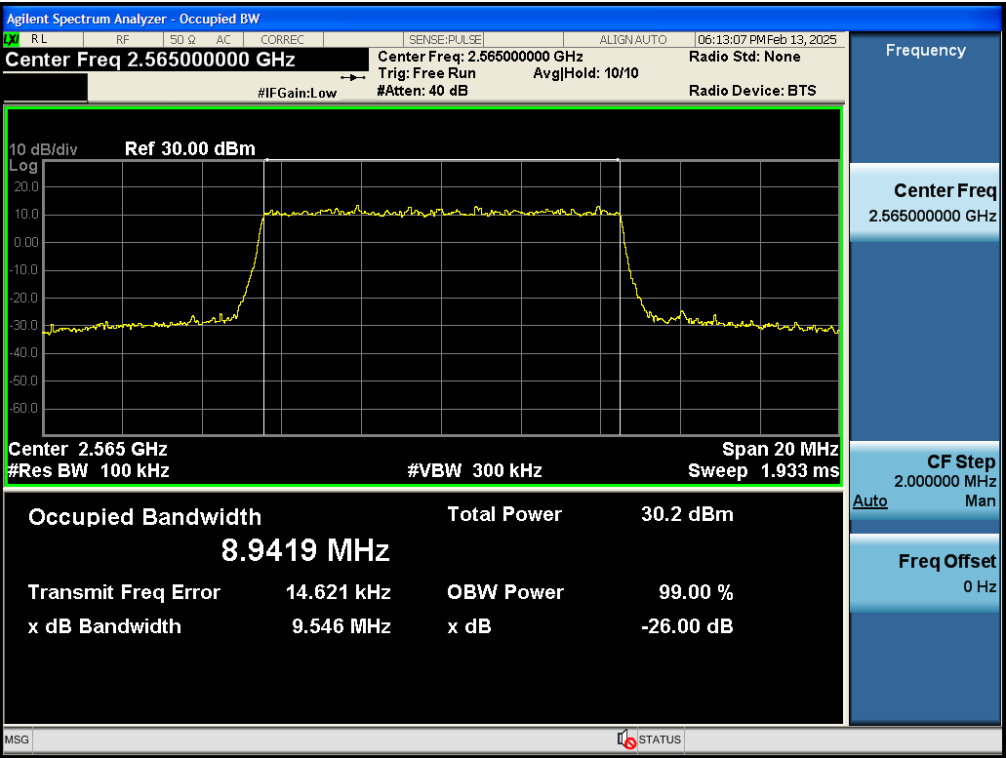
Test_Graph_band7_2535MHz_10M_16QAM_50RB#LOW_OBW&EBW



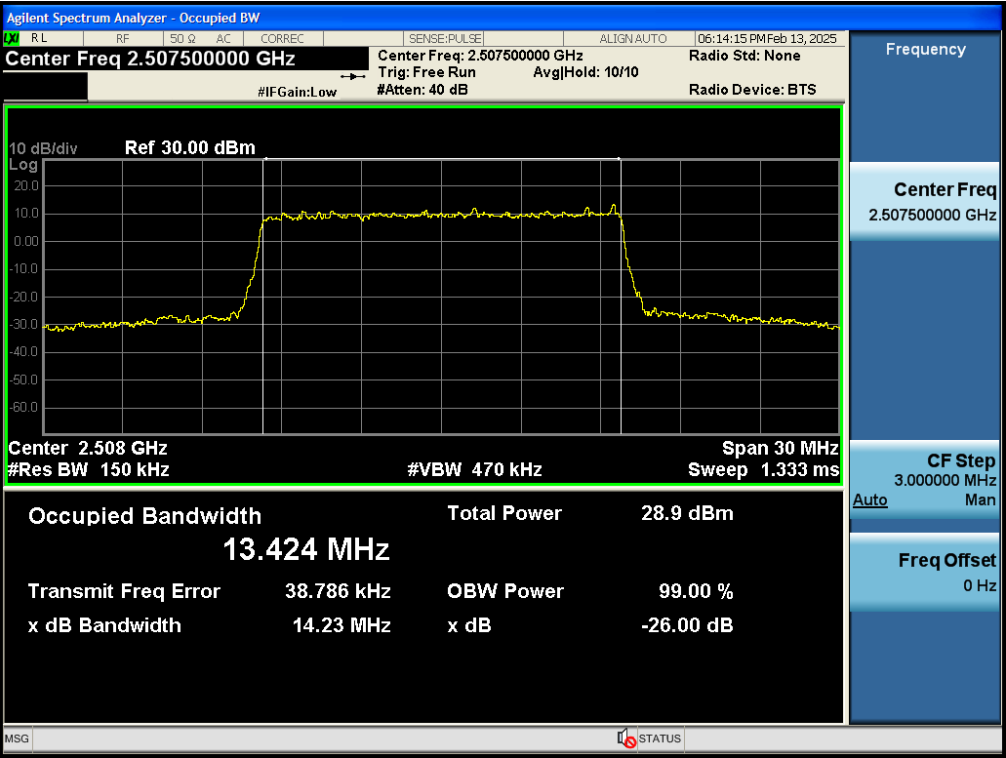
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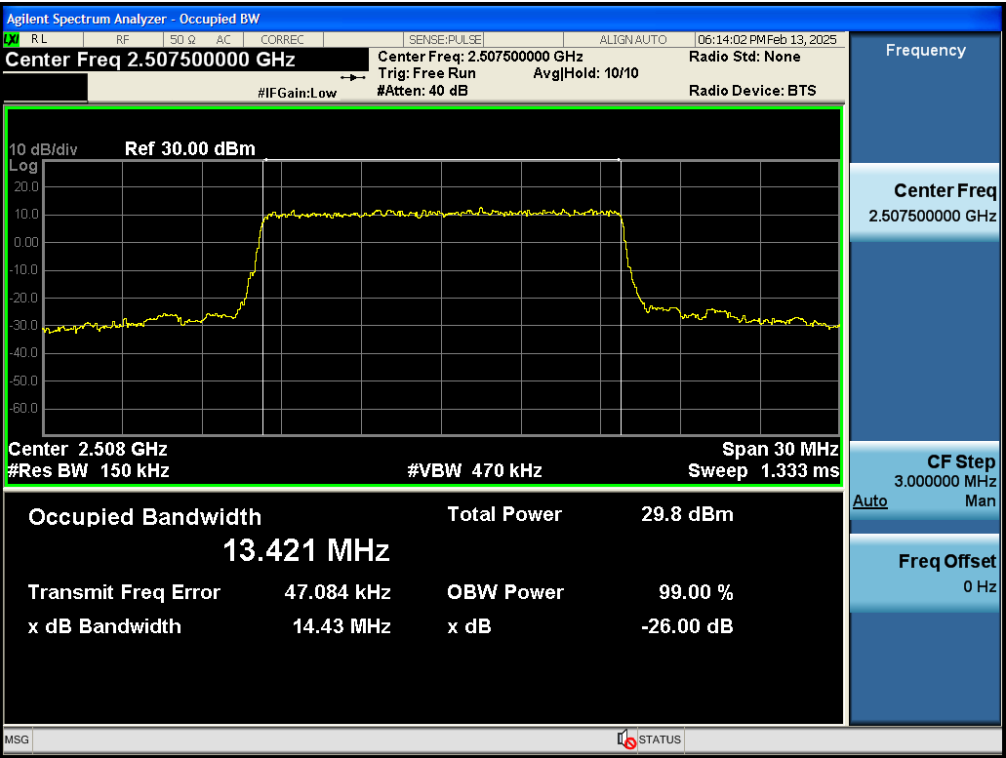
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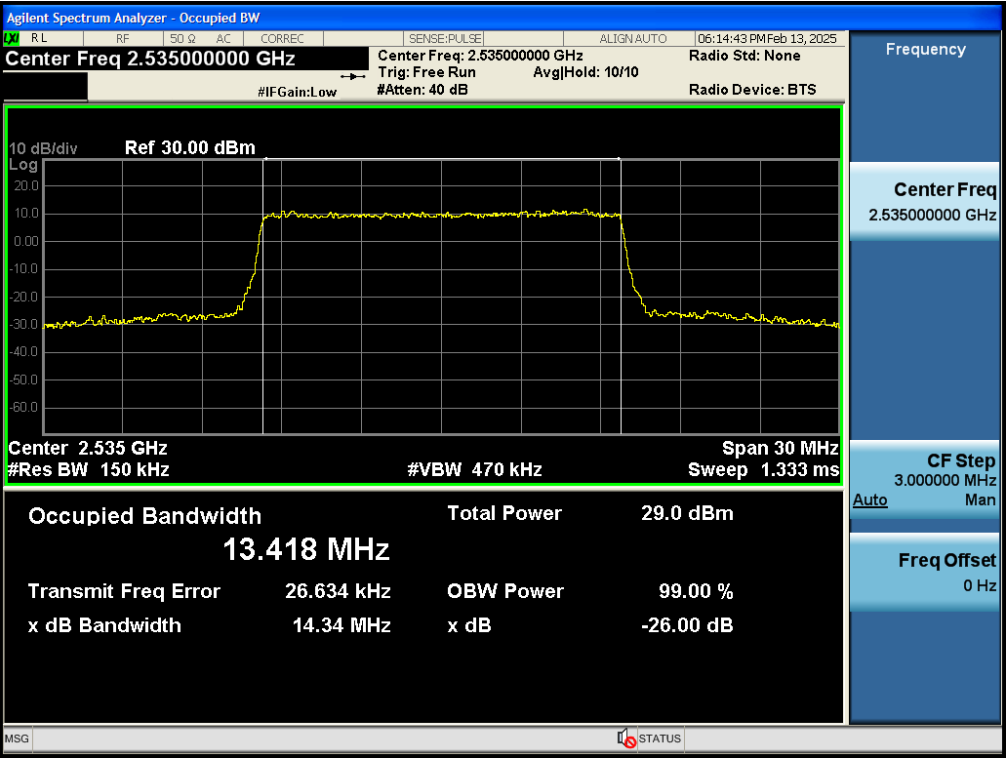
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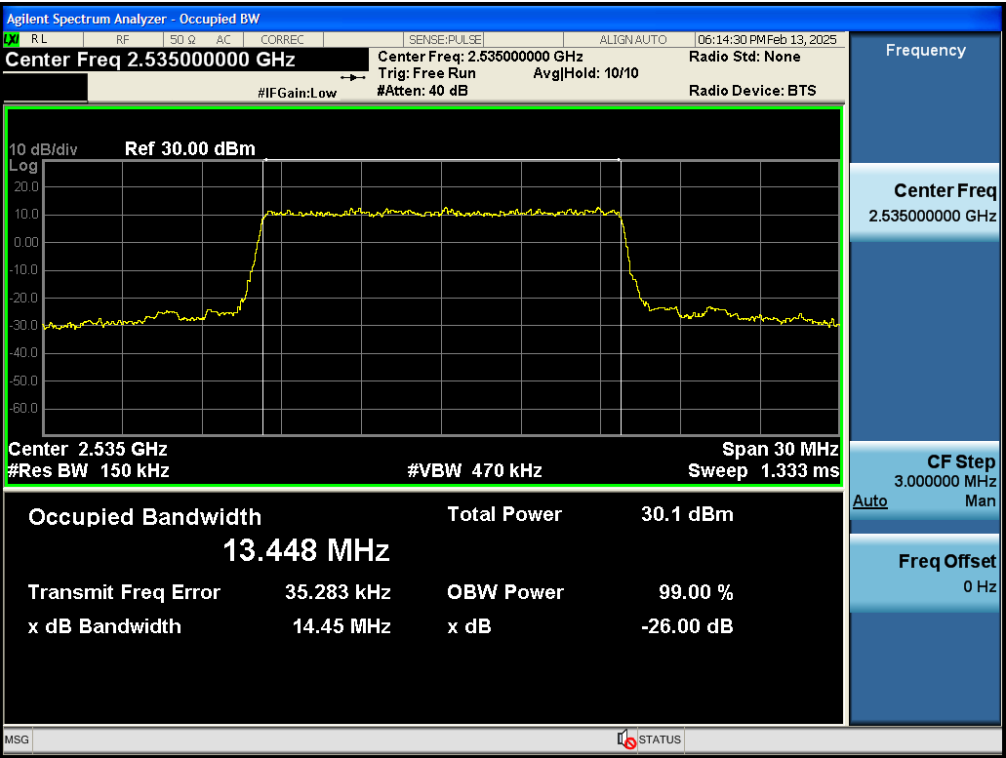
Test_Graph_band7_2507.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



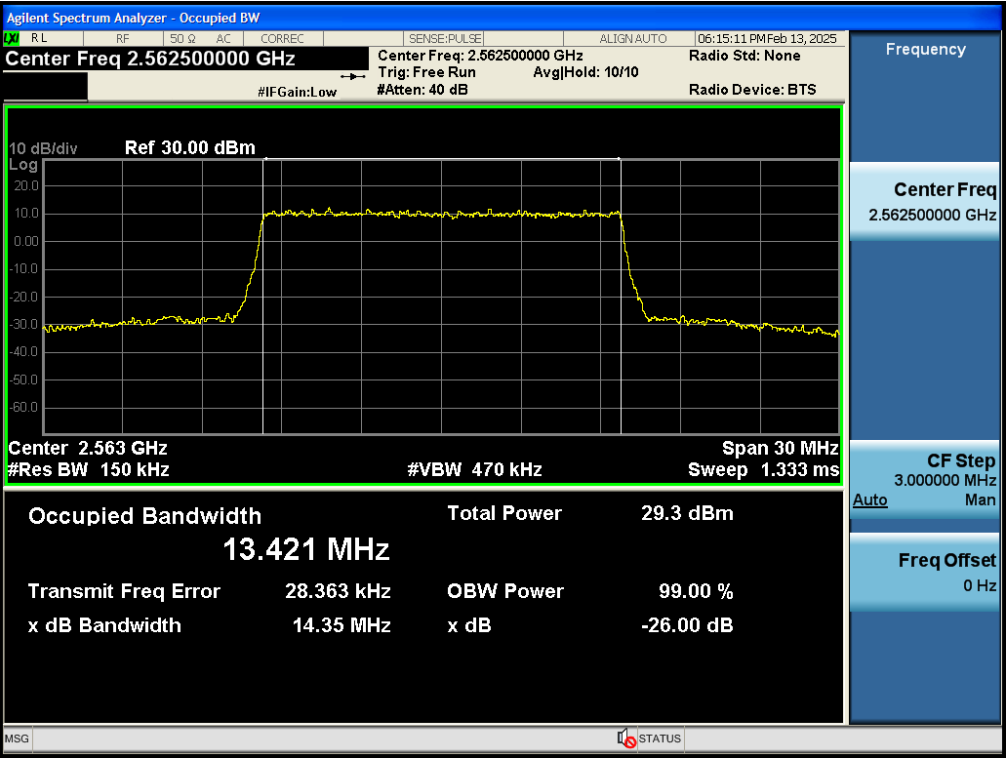
Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



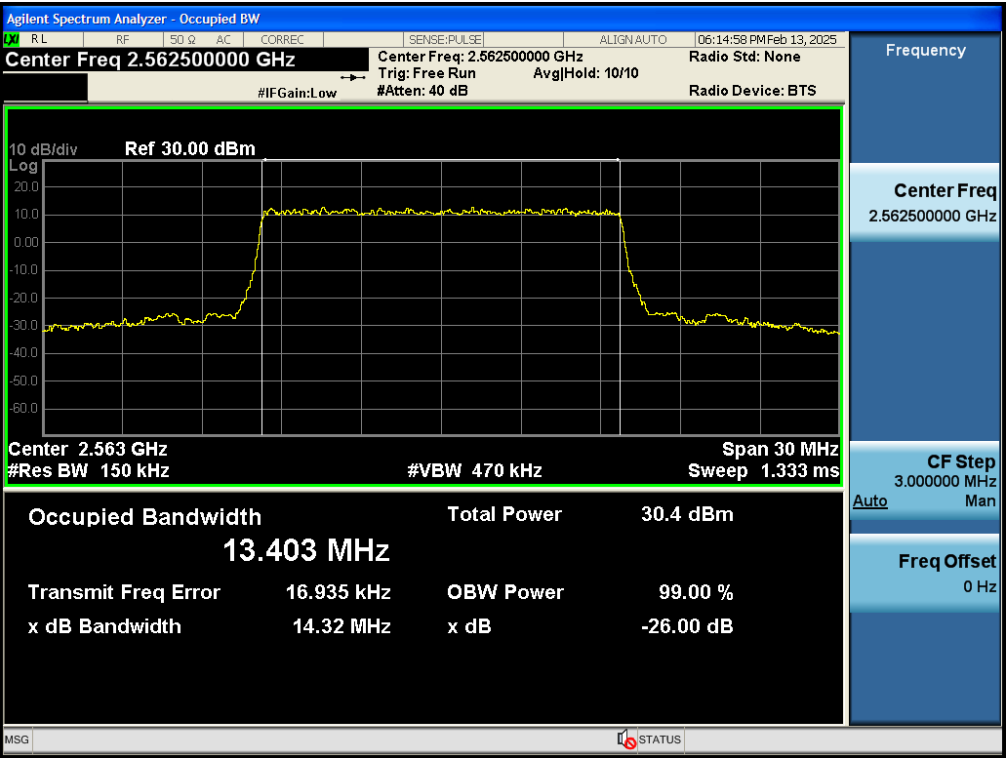
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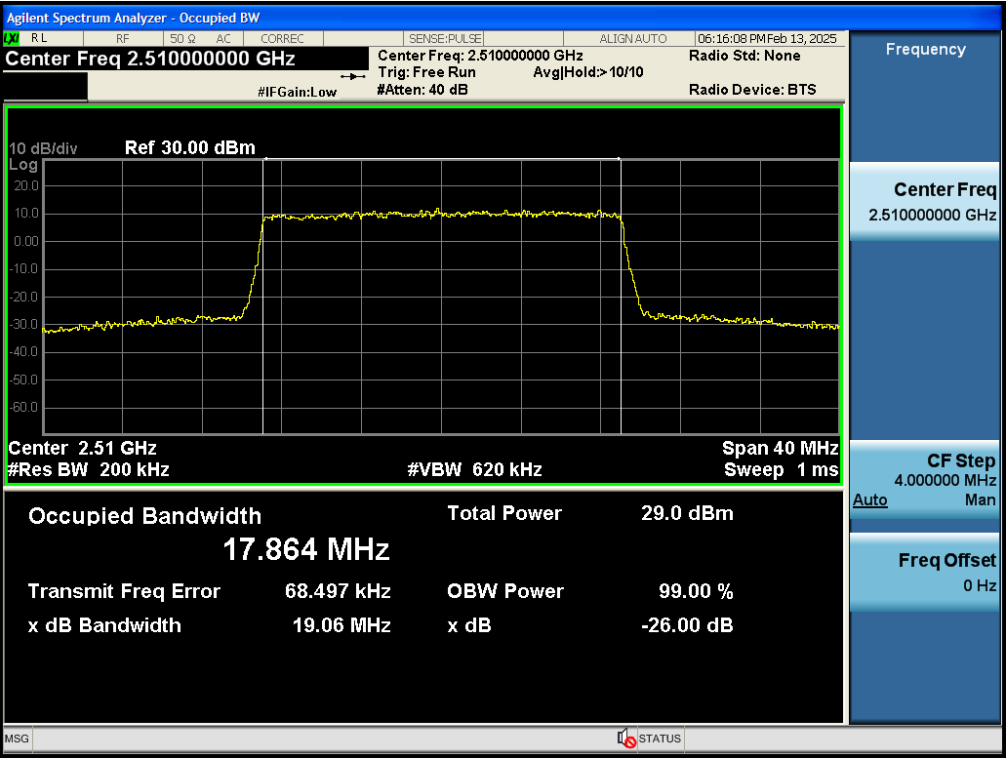
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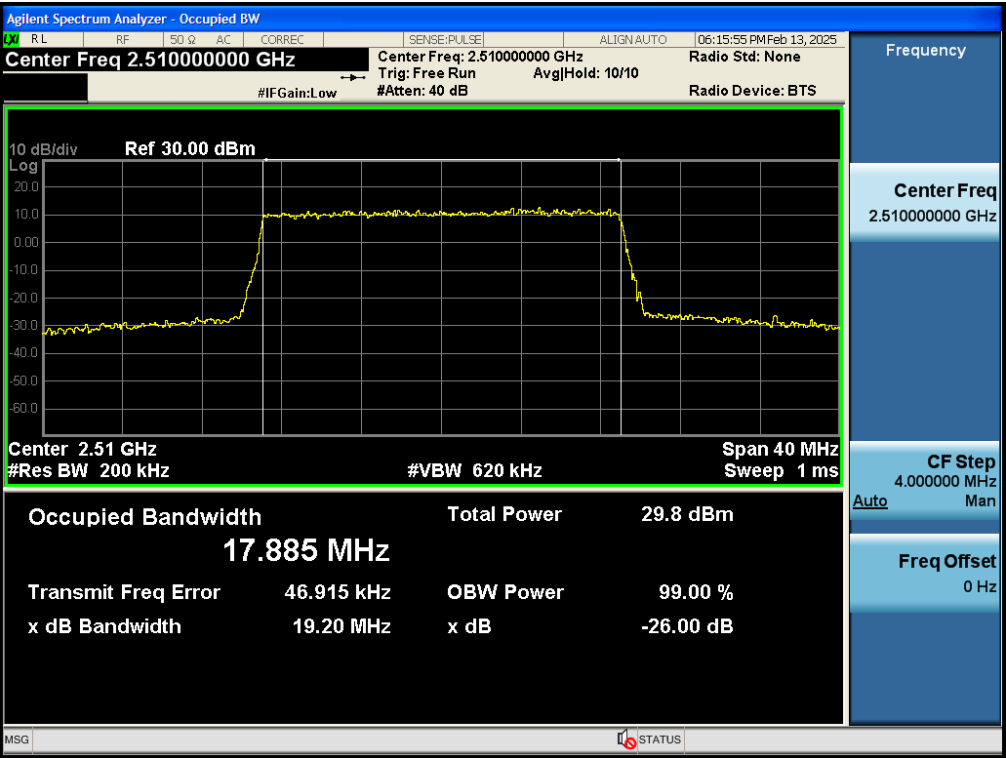
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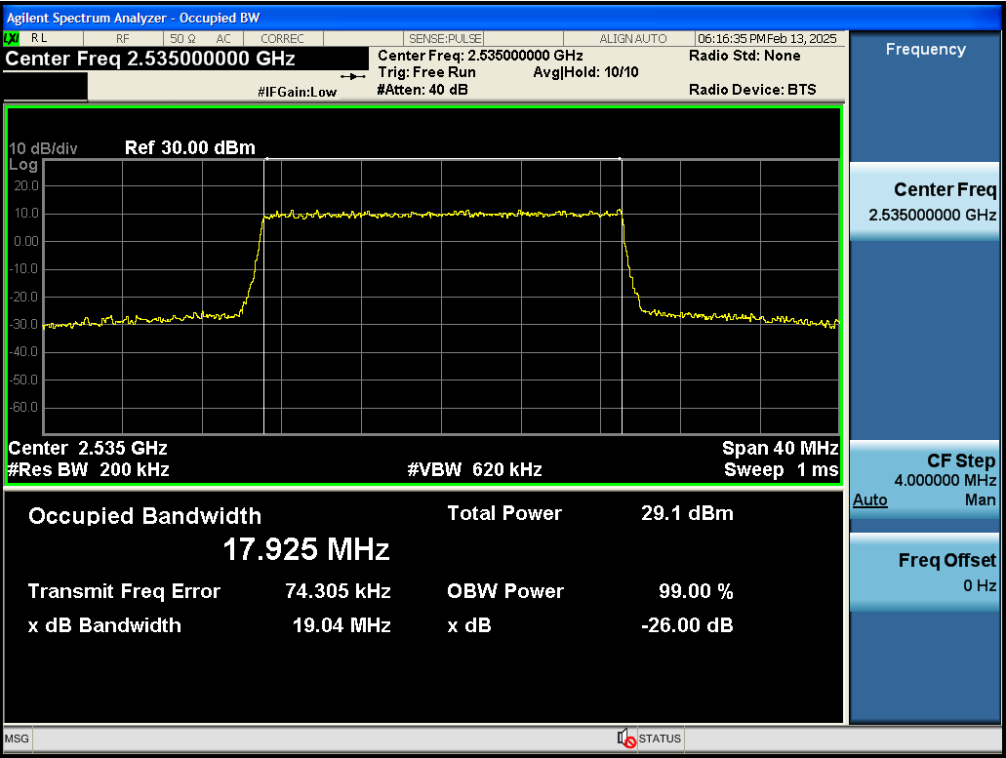
Test_Graph_band7_2562.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



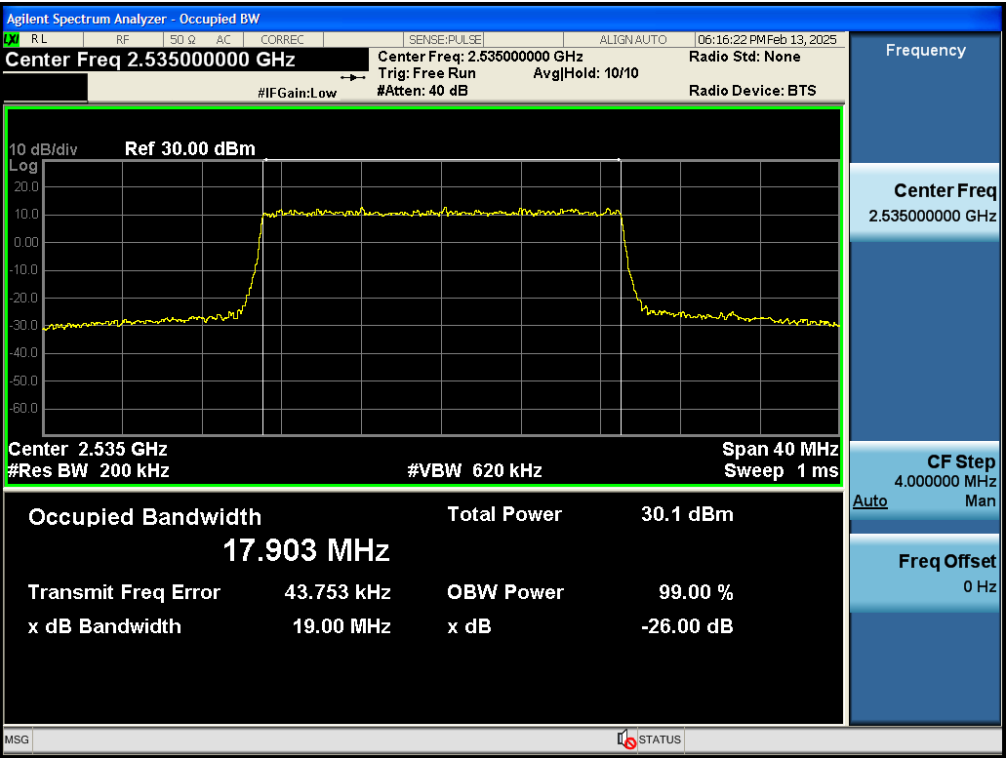
Test_Graph_band7_2510MHz_20M_16QAM_100RB#LOW_OBW&EBW



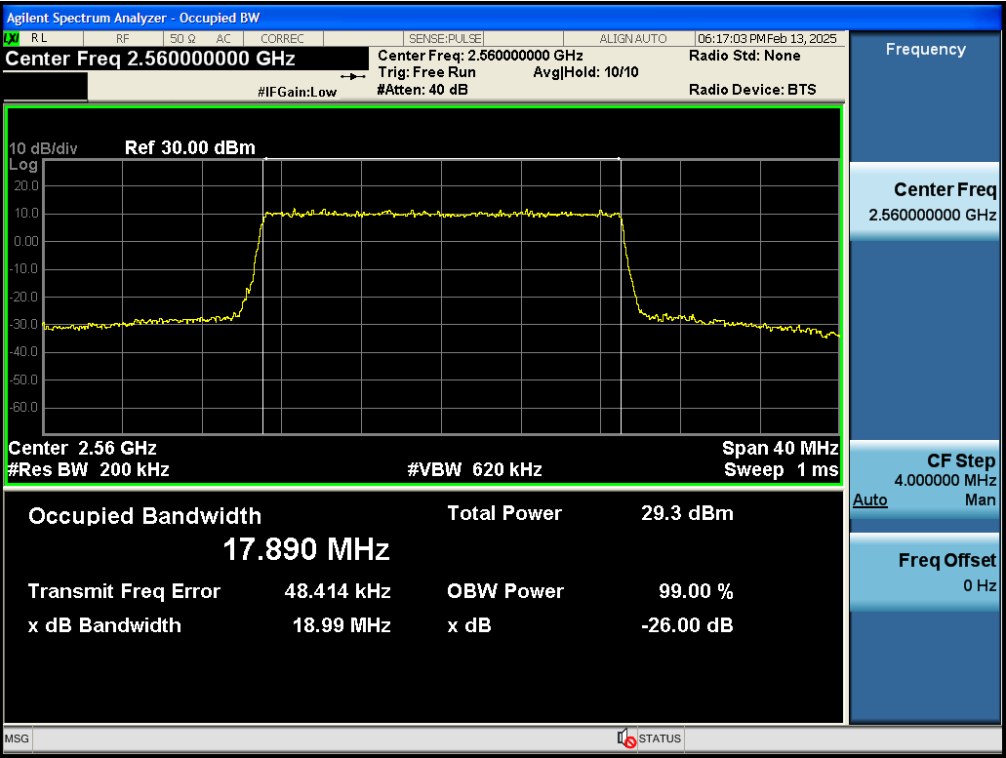
Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_OBW&EBW



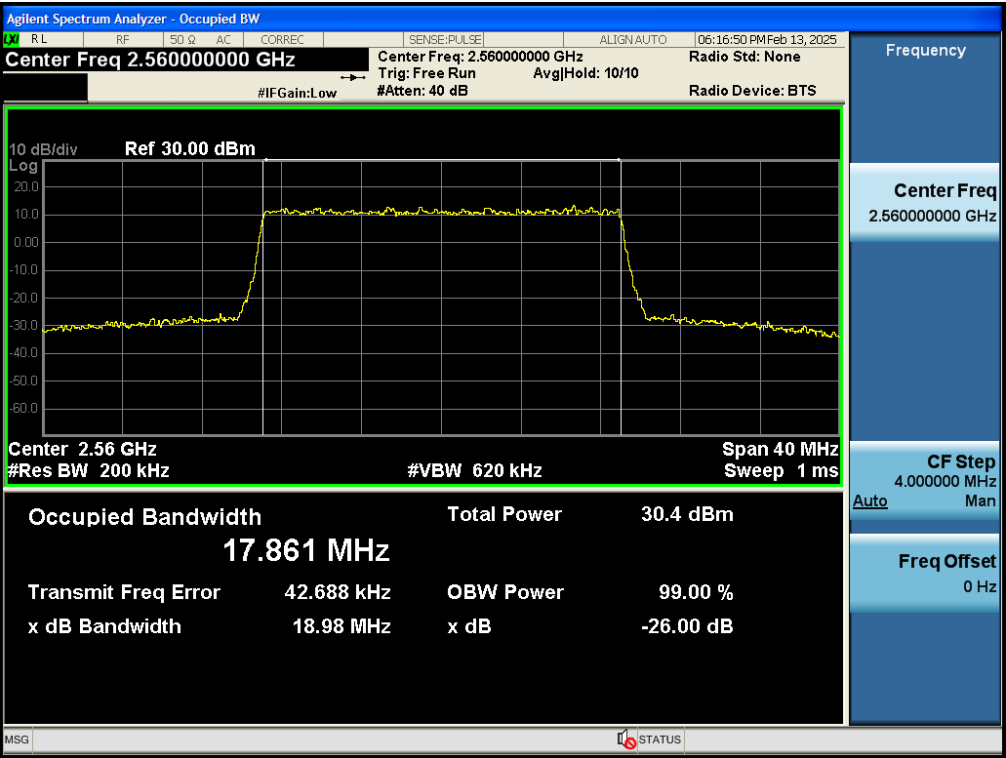
Test_Graph_band7_2535MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band7_2535MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band7_2560MHz_20M_16QAM_100RB#LOW_OBW&EBW



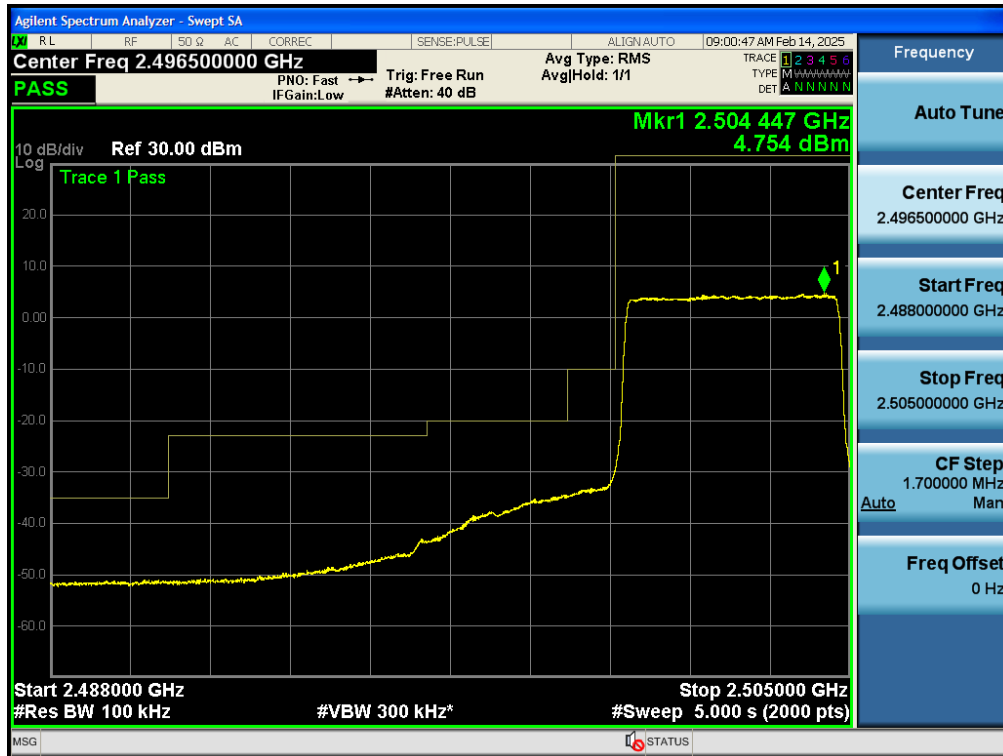
Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_OBW&EBW

Appendix C: Band edge emissions

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
7	5	2502.5	QPSK	6	LOW	Pass
7	5	2502.5	16QAM	6	LOW	Pass
7	5	2567.5	QPSK	6	LOW	Pass
7	5	2567.5	16QAM	6	LOW	Pass
7	10	2505	QPSK	15	LOW	Pass
7	10	2505	16QAM	15	LOW	Pass
7	10	2565	QPSK	15	LOW	Pass
7	10	2565	16QAM	15	LOW	Pass
7	15	2507.5	QPSK	25	LOW	Pass
7	15	2507.5	16QAM	25	LOW	Pass
7	15	2562.5	QPSK	25	LOW	Pass
7	15	2562.5	16QAM	25	LOW	Pass
7	20	2510	QPSK	50	LOW	Pass
7	20	2510	16QAM	50	LOW	Pass
7	20	2560	QPSK	50	LOW	Pass
7	20	2560	16QAM	50	HIGH	Pass

Test Graphs



Test_Graph_band7_2502.5MHz_5M_16QAM_25RB#LOW_Band edge



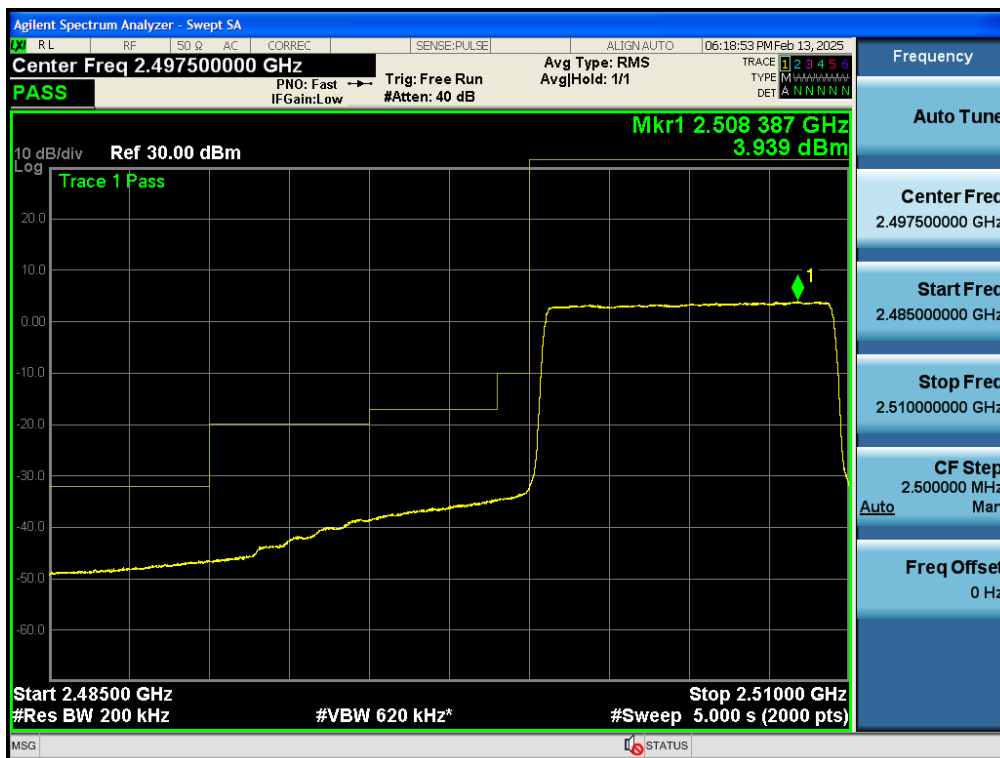
Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band7_2567.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band7_2505MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band7_2565MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band7_2565MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band7_2507.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band7_2562.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band7_2562.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band7_2510MHz_20M_16QAM_100RB#LOW_Band edge



Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_Band edge



Test_Graph_band7_2560MHz_20M_16QAM_100RB#HIGH_Band edge



Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

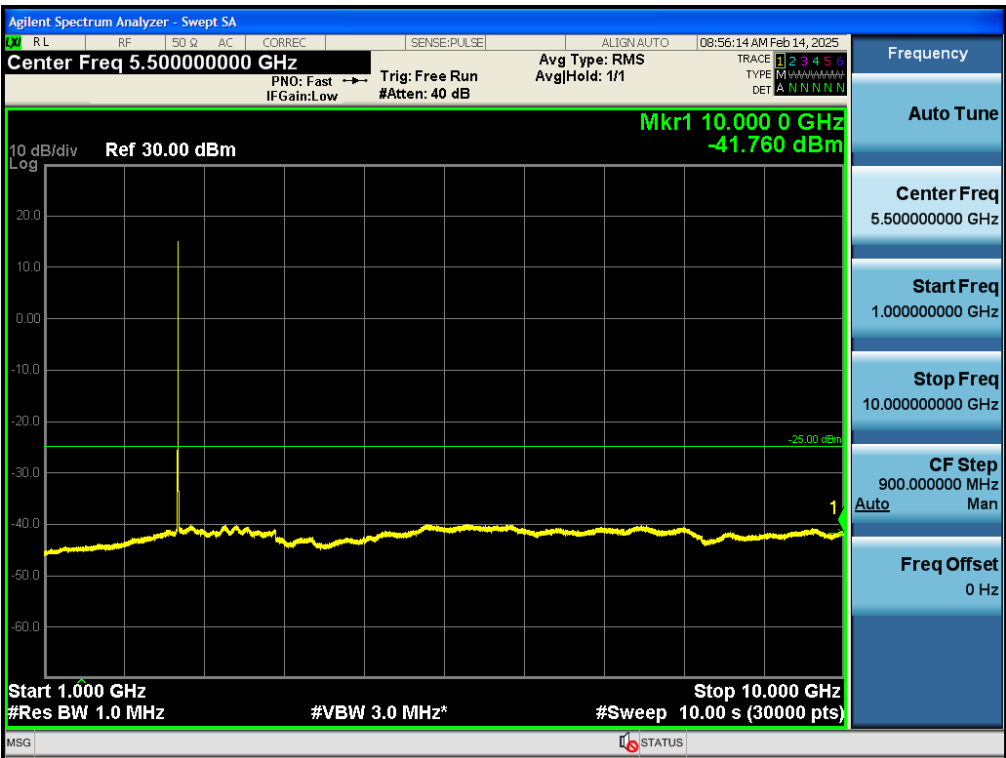
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
7	5	2502.5	QPSK	6	LOW	Pass
7	5	2535	QPSK	6	LOW	Pass
7	5	2567.5	QPSK	6	LOW	Pass
7	10	2505	QPSK	15	LOW	Pass
7	10	2535	QPSK	15	LOW	Pass
7	10	2565	QPSK	15	LOW	Pass
7	15	2507.5	QPSK	25	LOW	Pass
7	15	2535	QPSK	25	LOW	Pass
7	15	2562.5	QPSK	25	LOW	Pass
7	20	2510	QPSK	50	LOW	Pass
7	20	2535	QPSK	50	LOW	Pass
7	20	2560	QPSK	50	LOW	Pass

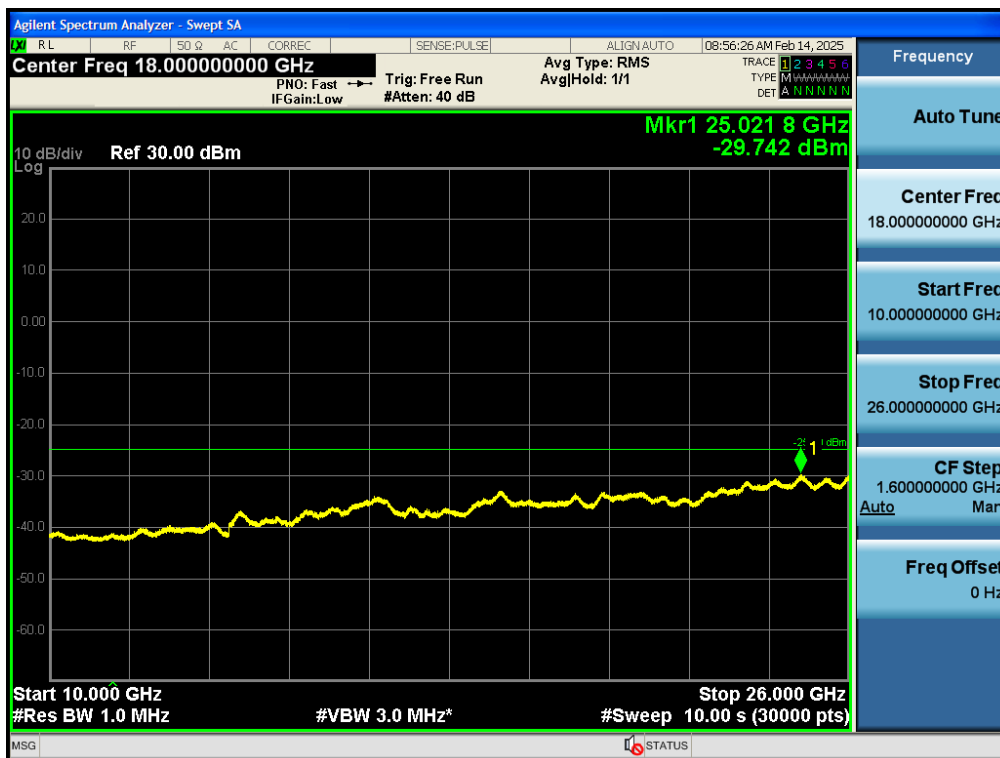
Test Graphs



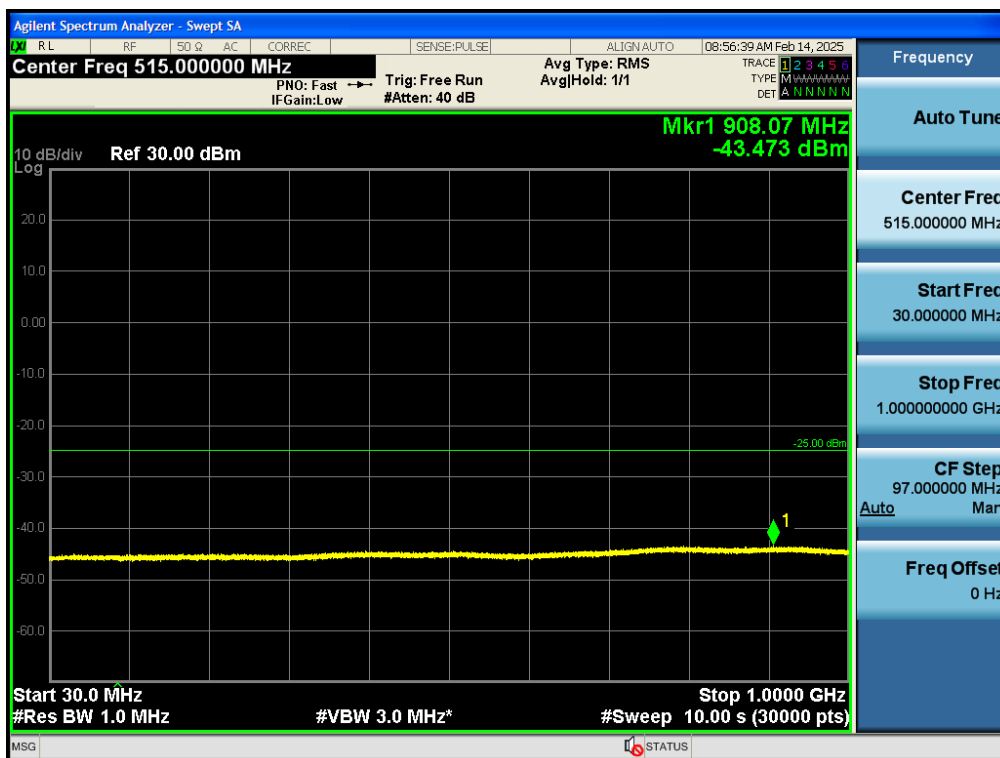
Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



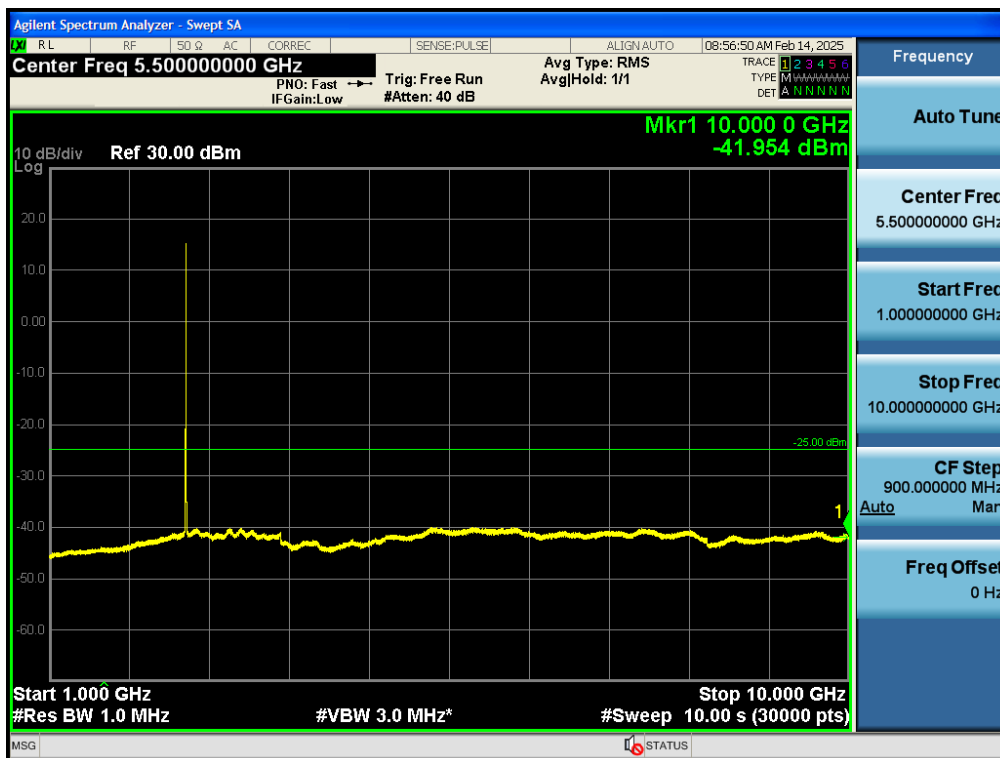
Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



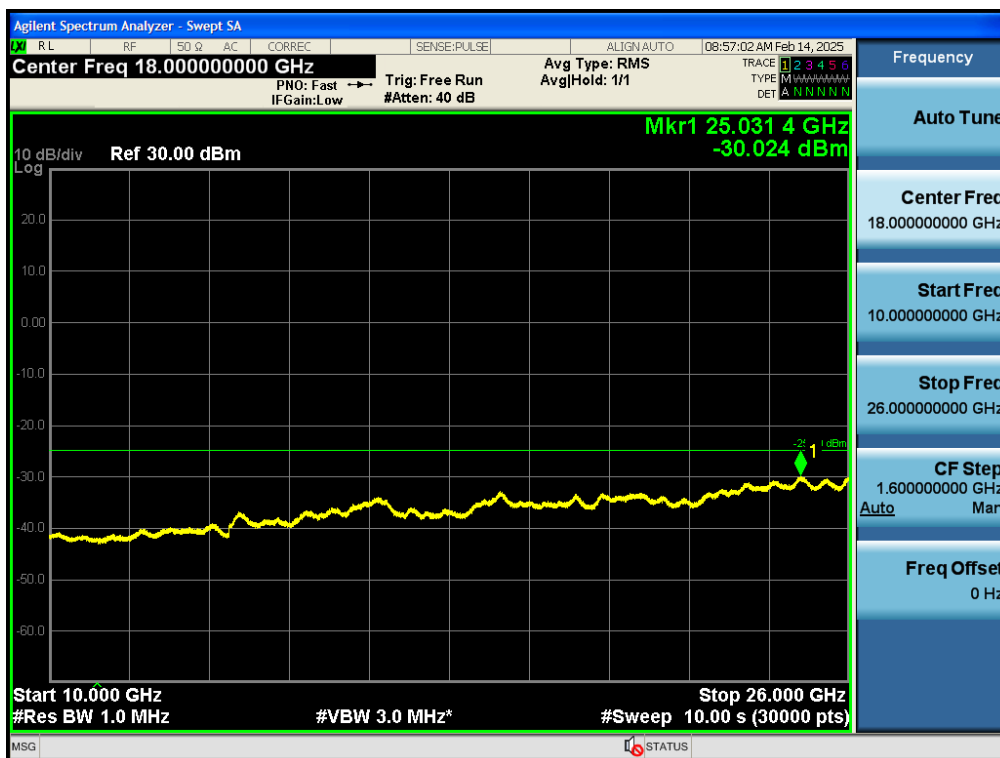
Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



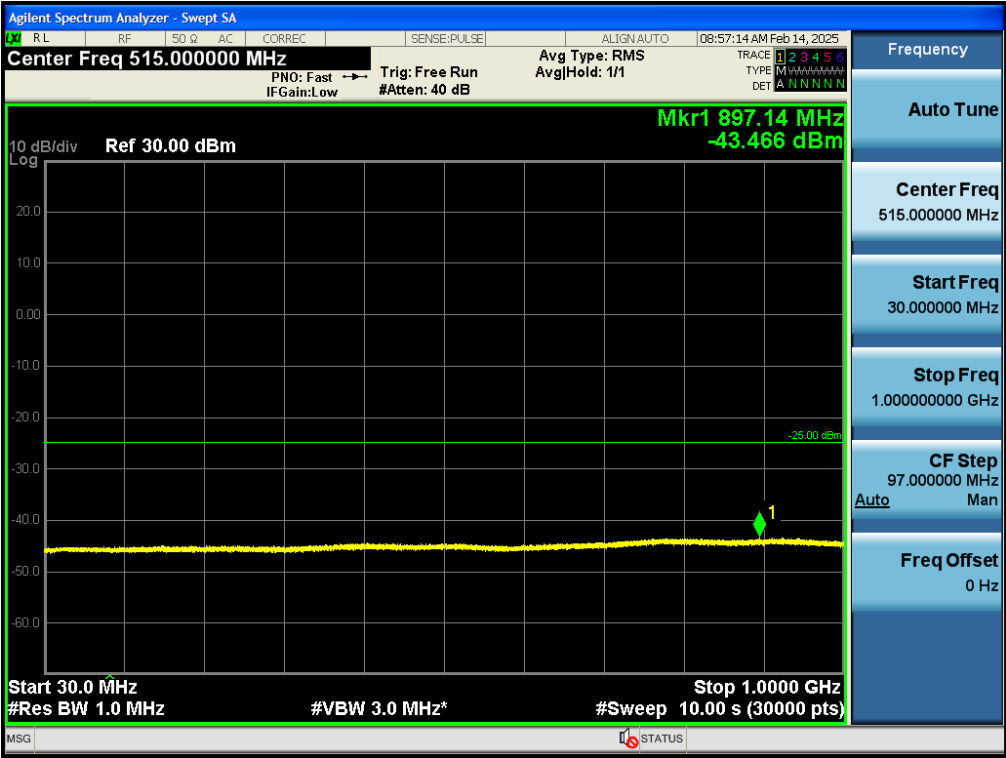
Test_Graph_band7_2535MHz_5M_QPSK_25RB#LOW_30M_1G_TX



Test_Graph_band7_2535MHz_5M_QPSK_25RB#LOW_1G_10G_TX



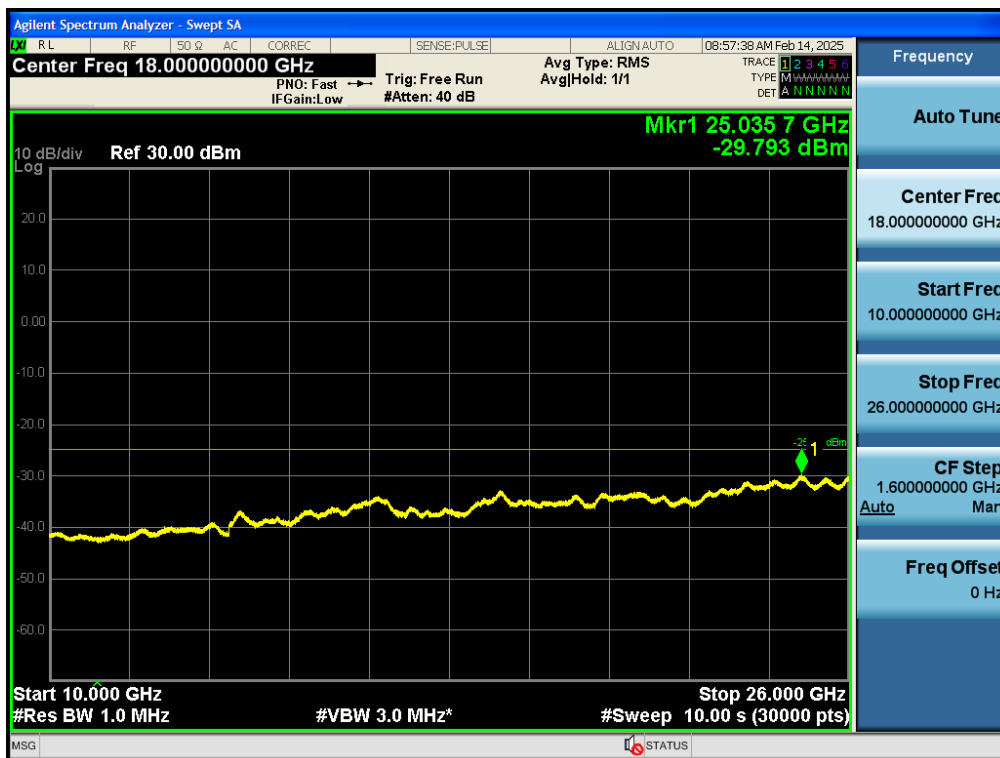
Test_Graph_band7_2535MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



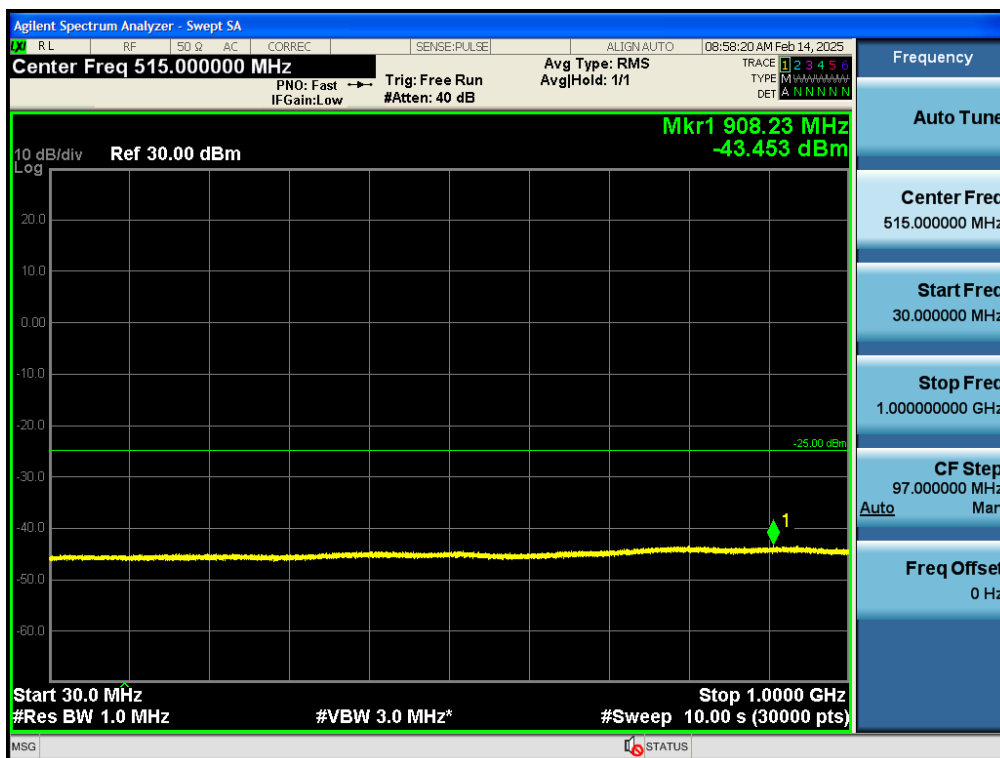
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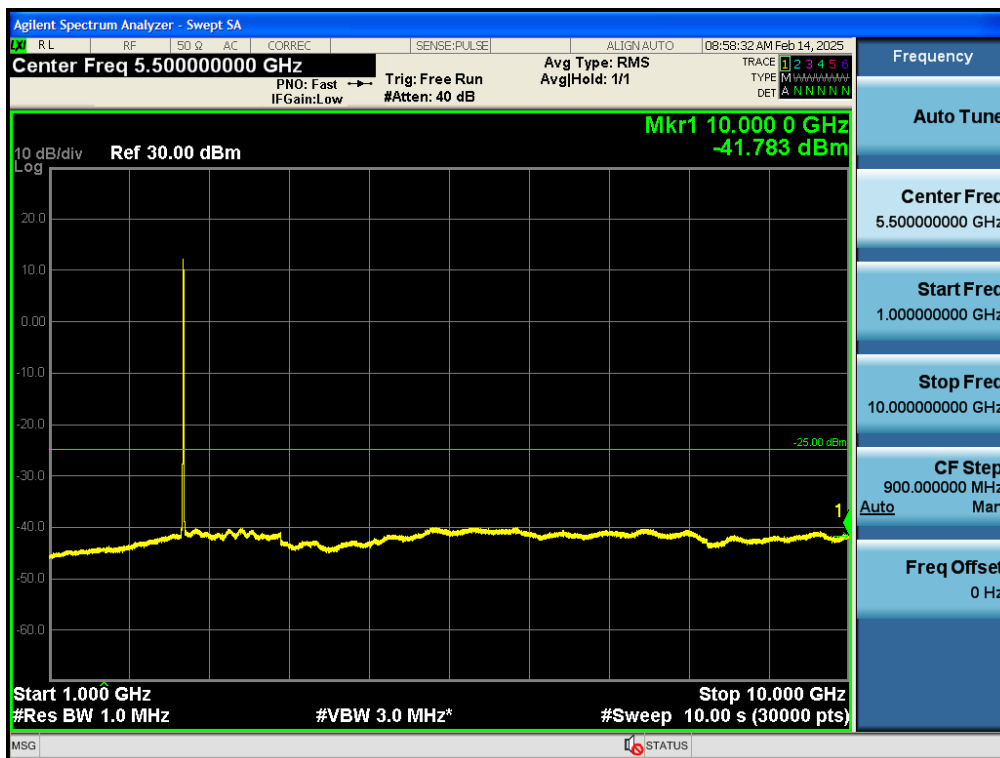
Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX



Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_30M_1G_TX



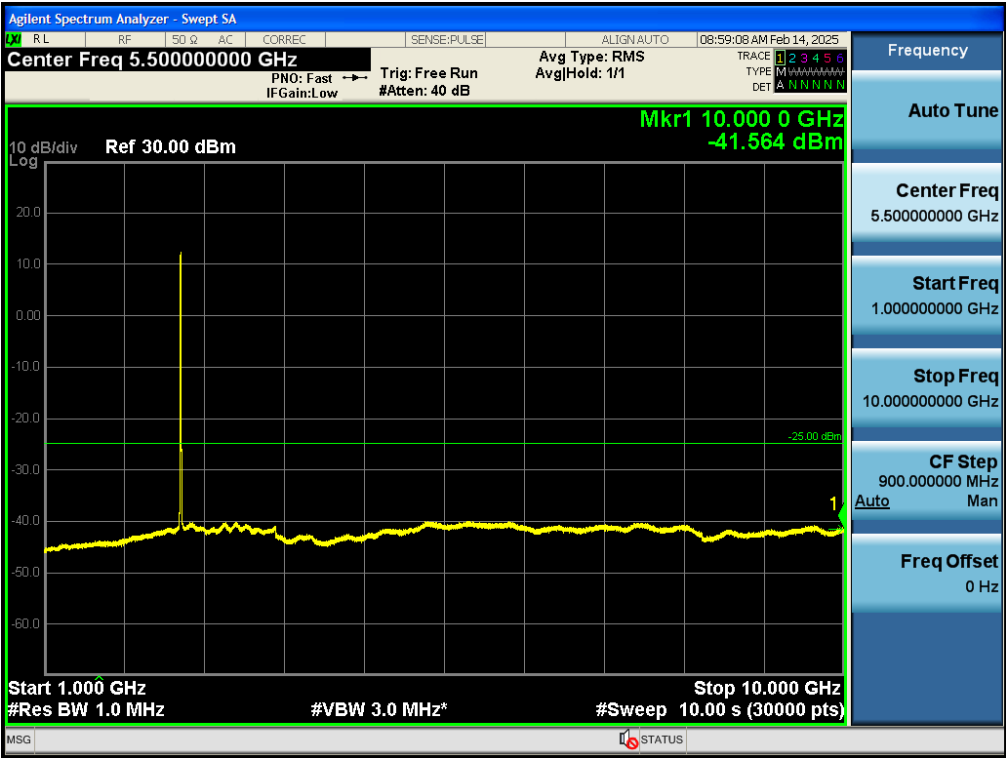
Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



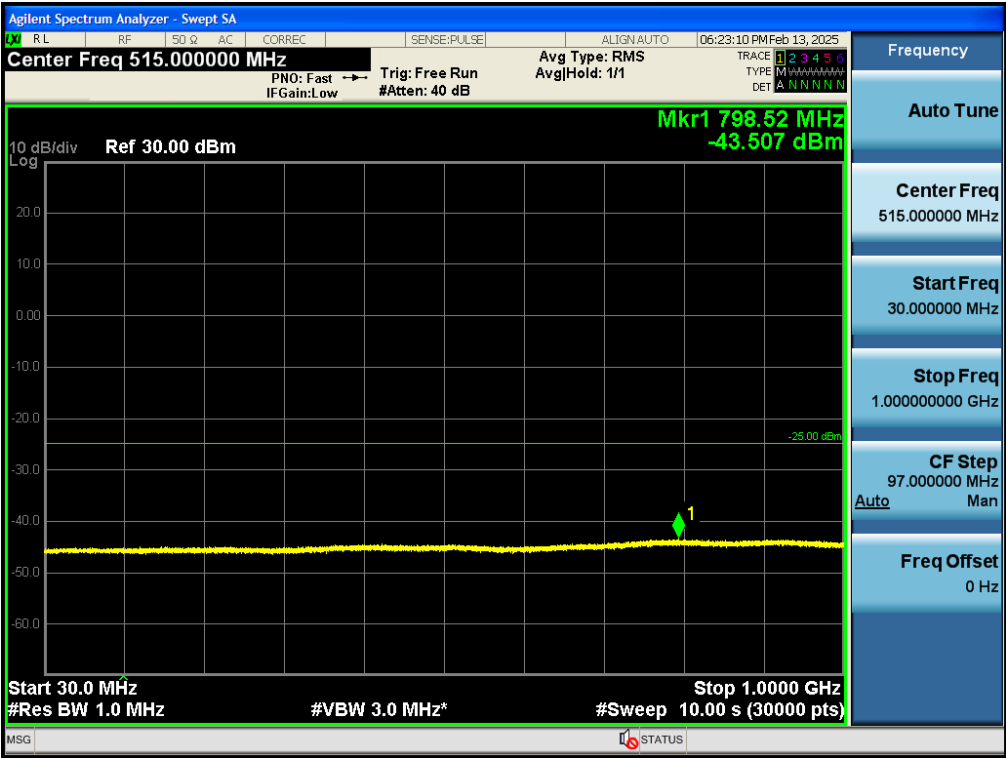
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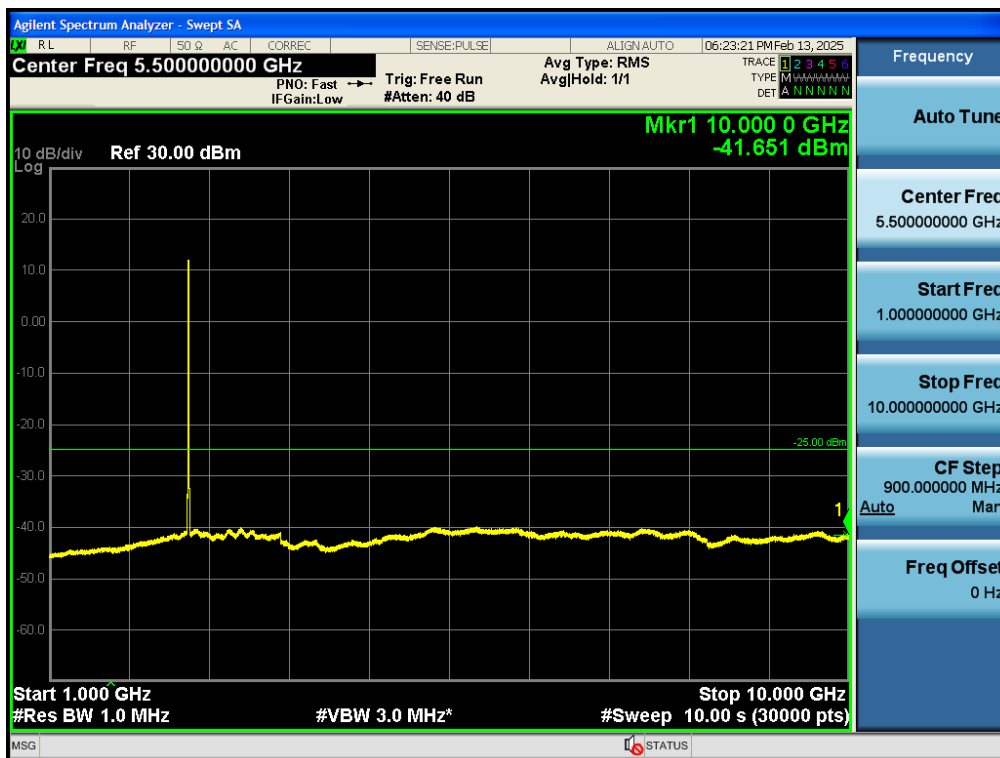
Test_Graph_band7_2535MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band7_2535MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



Test_Graph_band7_2565MHz_10M_QPSK_50RB#LOW_30M_1G_TX



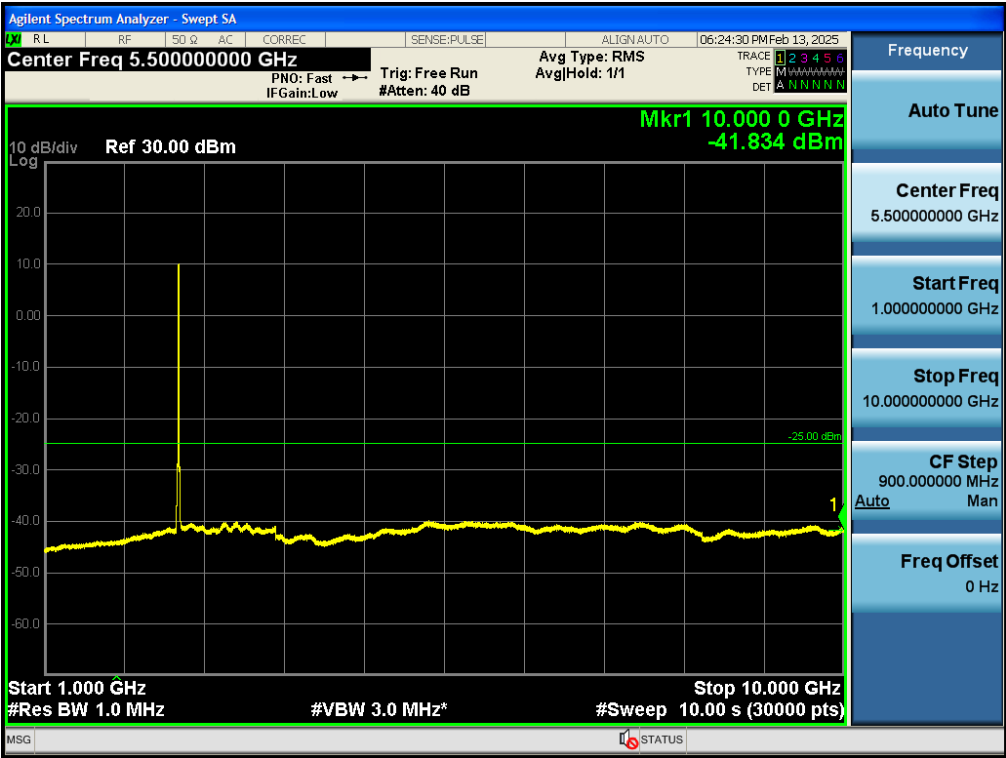
Test_Graph_band7_2565MHz_10M_QPSK_50RB#LOW_1G_10G_TX



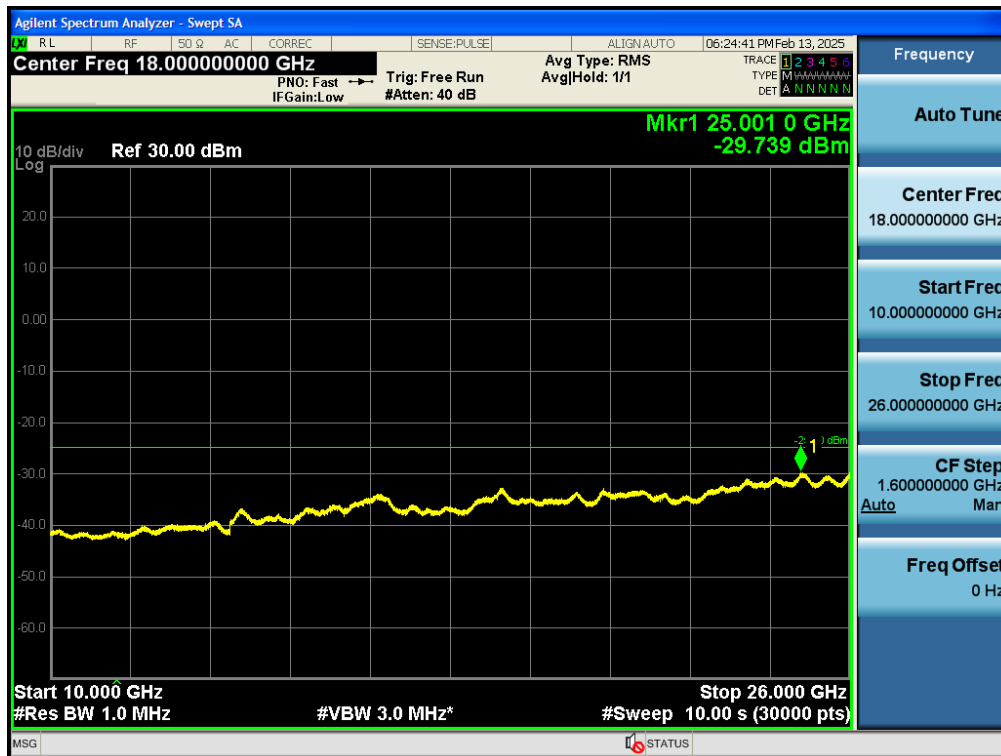
Test_Graph_band7_2565MHz_10M_QPSK_50RB#LOW_10G_26.0G_TX



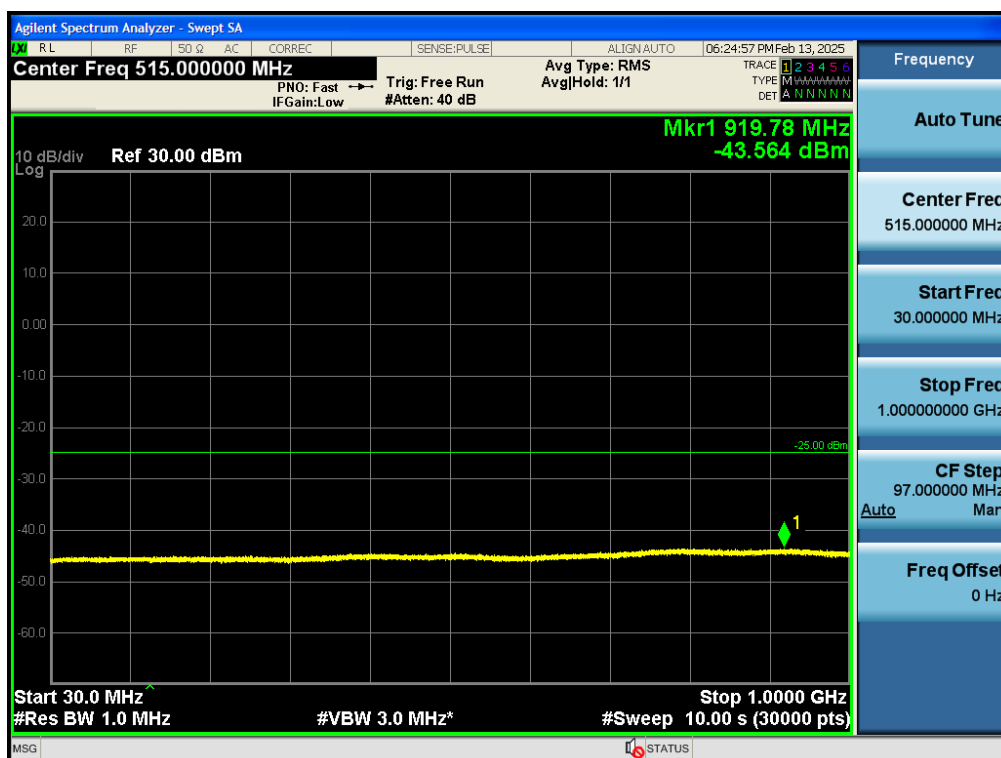
Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



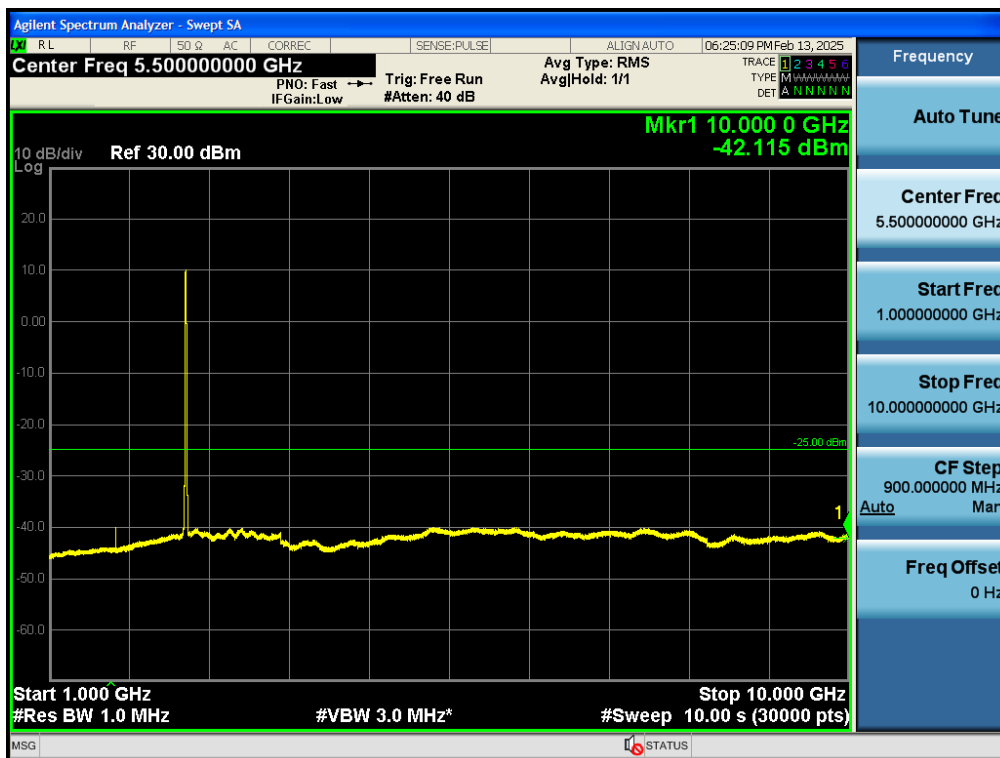
Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



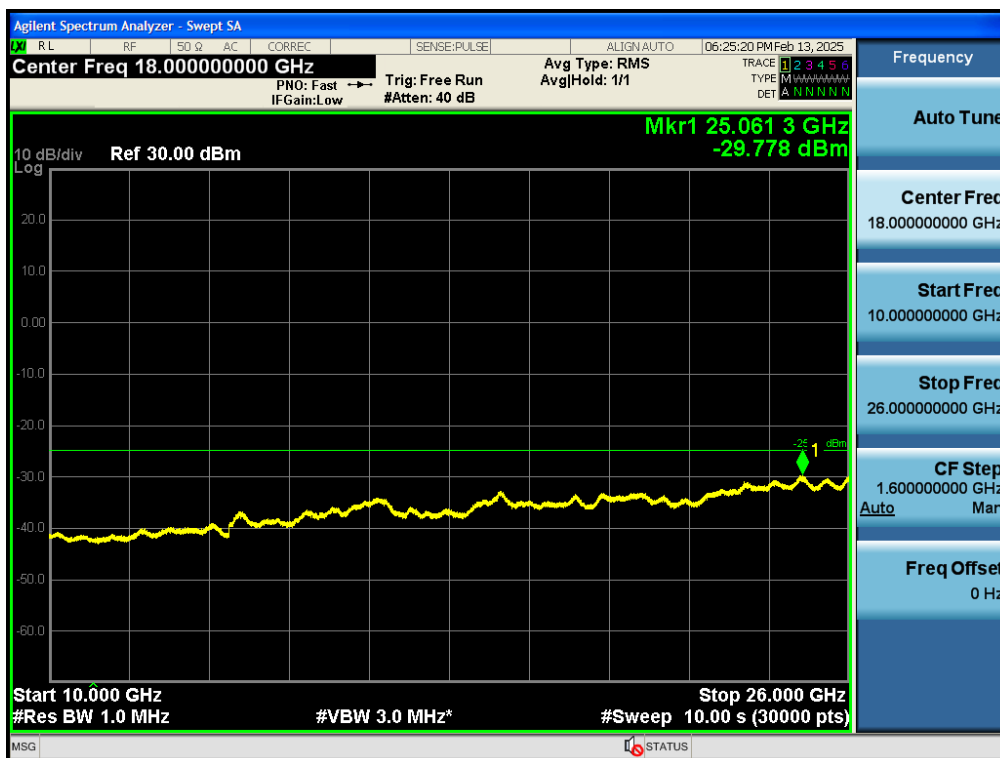
Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



Test_Graph_band7_2535MHz_15M_QPSK_75RB#LOW_30M_1G_TX



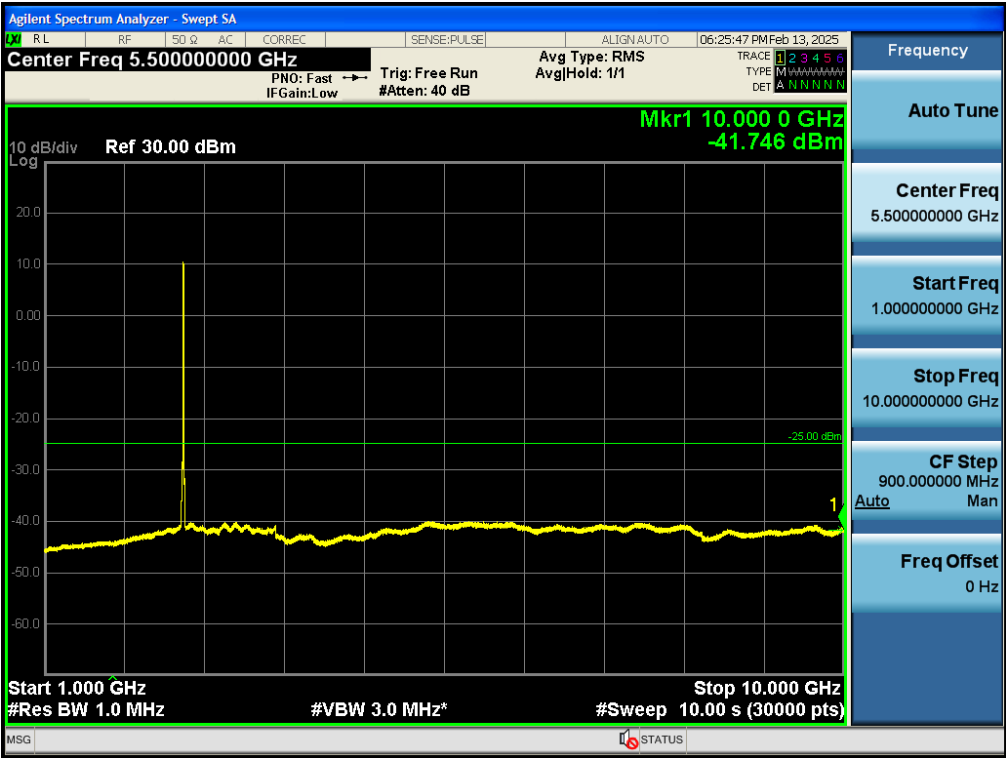
Test_Graph_band7_2535MHz_15M_QPSK_75RB#LOW_1G_10G_TX



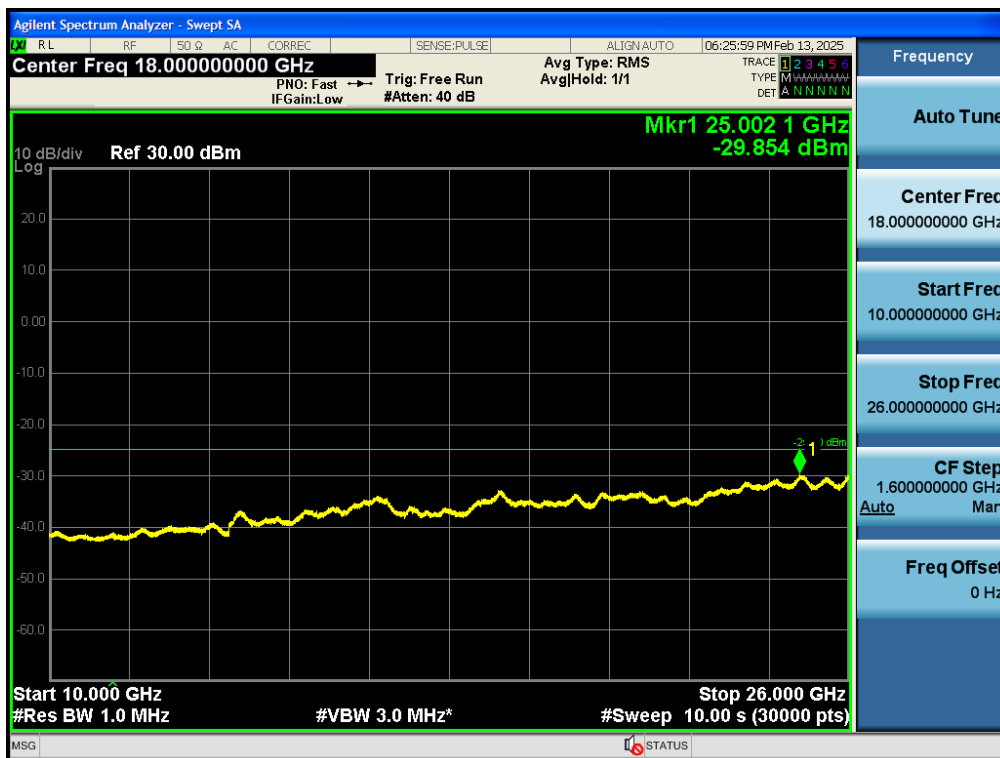
Test_Graph_band7_2535MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX



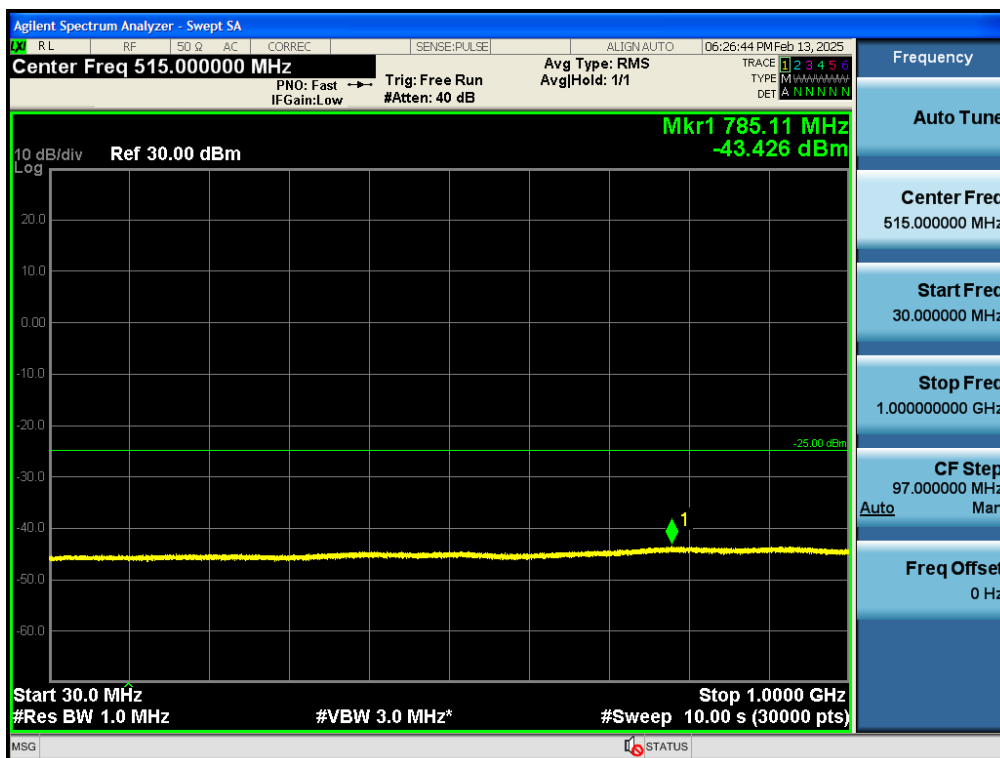
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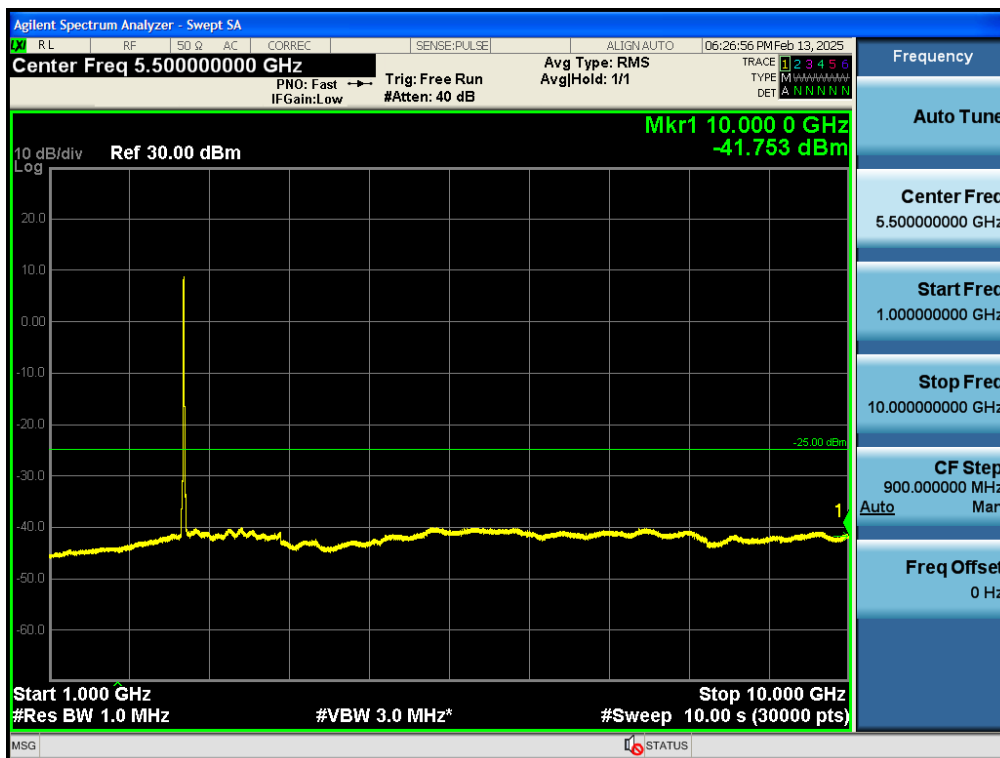
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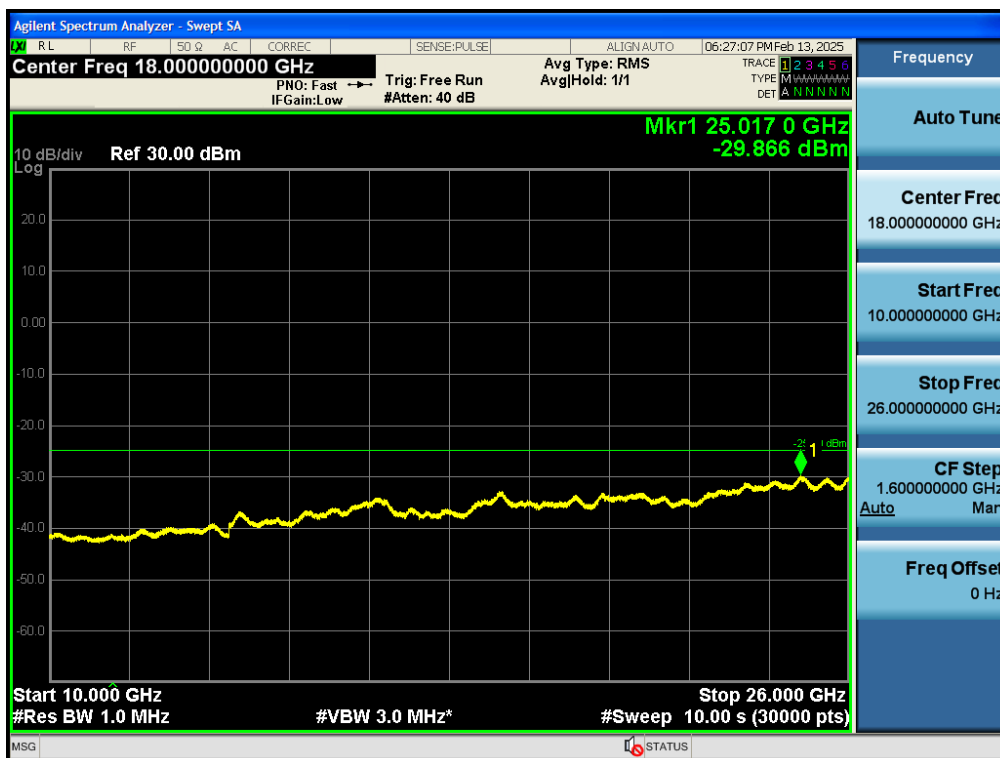
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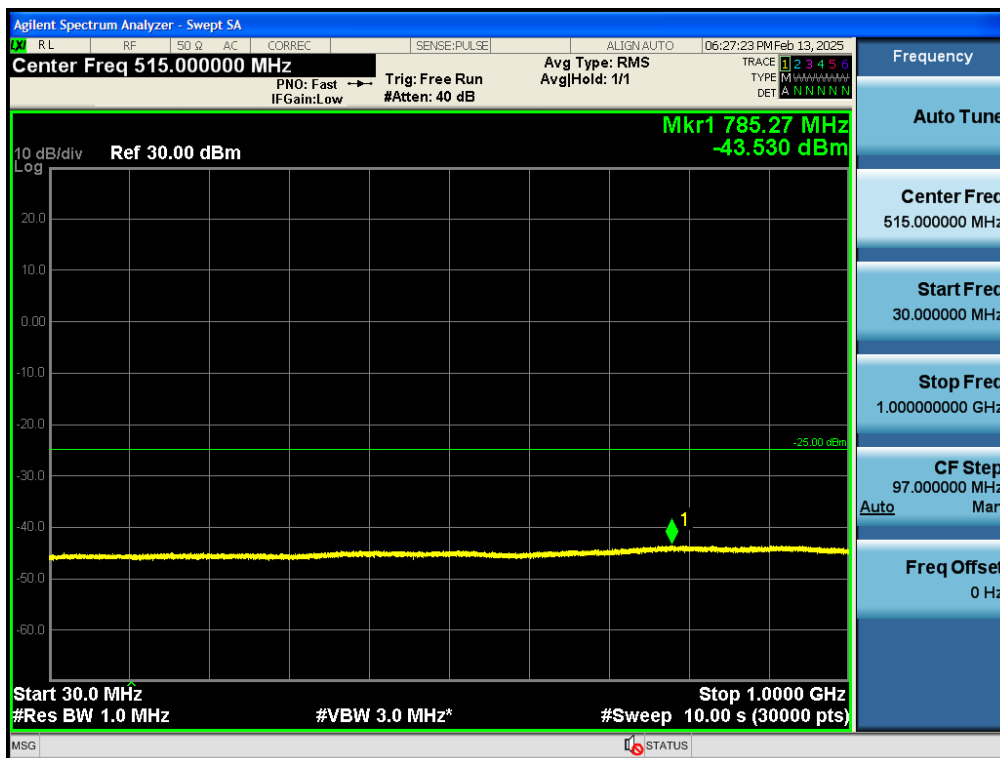
Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_30M_1G_TX



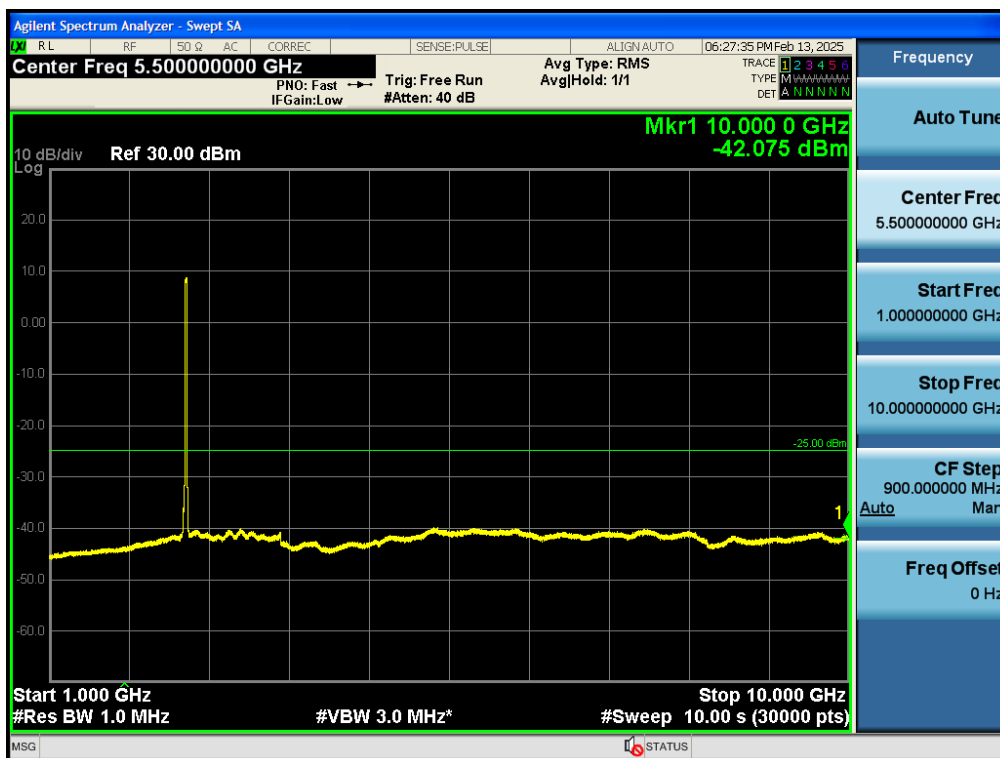
Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX



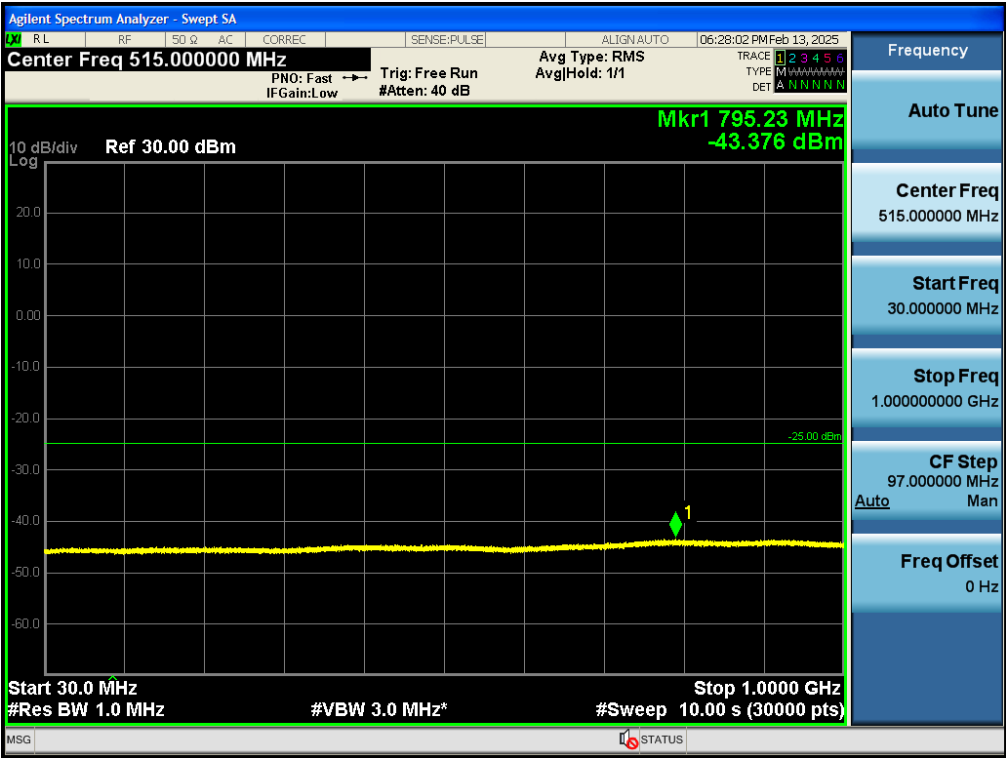
Test_Graph_band7_2535MHz_20M_QPSK_100RB#LOW_30M_1G_TX



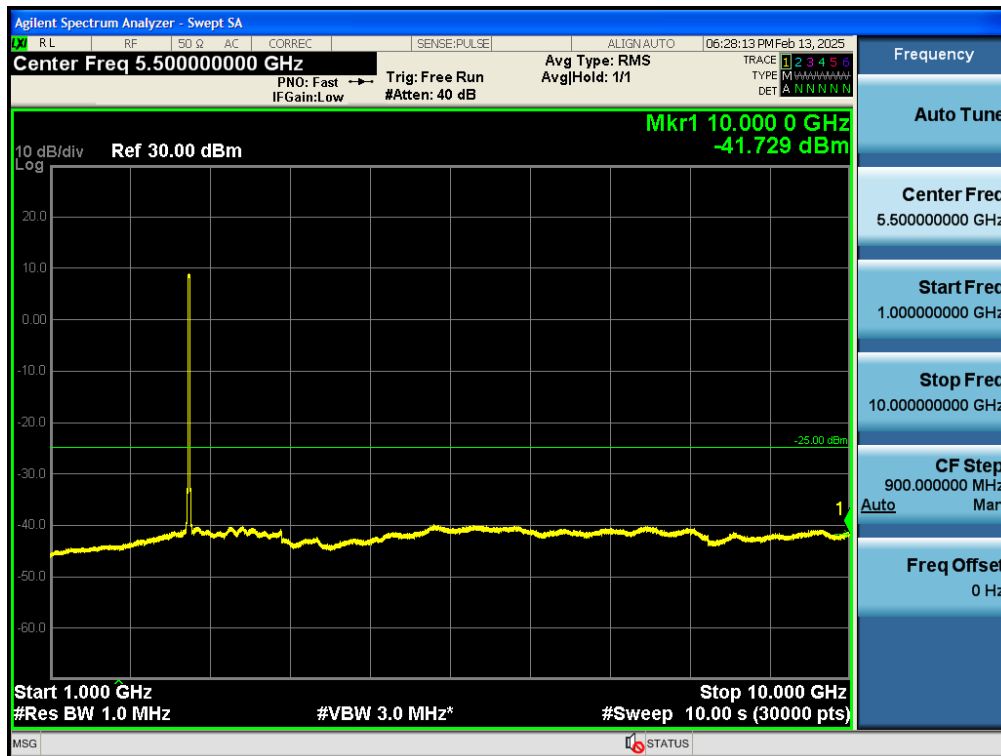
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Test_Graph_band7_2535MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX



Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_10G_26.0G_TX

Appendix E: Frequency stability

Test Result

Test Conditions		LTE Band 7(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0748	PASS
40	Normal Voltage	0.0394	
30	Normal Voltage	0.0211	
20(Ref.)	Normal Voltage	0.0387	
10	Normal Voltage	0.0699	
0	Normal Voltage	0.0219	
-10	Normal Voltage	0.0479	
-20	Normal Voltage	0.0474	
-30	Normal Voltage	0.0236	
20	Maximum Voltage	0.0247	
20	Normal Voltage	0.0299	
20	Battery End Point	0.0639	