Appendix Test Data for LTE band 7(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
7	5	2502.5	QPSK	25	LOW	21.18	27.77	6.59	13	2.47	23.65	33	Pass
7	5	2502.5	QPSK	12	LOW	21.18	27.2	6.02	13	2.47	23.65	33	Pass
7	5	2502.5	QPSK	12	MID	21.17	27.22	6.05	13	2.47	23.64	33	Pass
7	5	2502.5	QPSK	12	HIGH	21.17	27.42	6.25	13	2.47	23.64	33	Pass
7	5	2502.5	QPSK	1	LOW	22.07	26.84	4.77	13	2.47	24.54	33	Pass
7	5	2502.5	QPSK	1	MID	22.21	27.14	4.93	13	2.47	24.68	33	Pass
7	5	2502.5	QPSK	1	HIGH	22.08	27.14	5.06	13	2.47	24.55	33	Pass
7	5	2502.5	16QAM	25	LOW	20.21	28.1	7.89	13	2.47	22.68	33	Pass
7	5	2502.5	16QAM	12	LOW	20.19	26.86	6.67	13	2.47	22.66	33	Pass
7	5	2502.5	16QAM	12	MID	20.21	26.89	6.68	13	2.47	22.68	33	Pass
7	5	2502.5	16QAM	12	HIGH	20.2	26.94	6.74	13	2.47	22.67	33	Pass
7	5	2502.5	16QAM	1	LOW	21.37	26.68	5.31	13	2.47	23.84	33	Pass
7	5	2502.5	16QAM	1	MID	21.51	26.95	5.44	13	2.47	23.98	33	Pass
7	5	2502.5	16QAM	1	HIGH	21.39	26.93	5.54	13	2.47	23.86	33	Pass
7	5	2535	QPSK	25	LOW	21.27	27.54	6.27	13	2.47	23.74	33	Pass
7	5	2535	QPSK	12	LOW	21.23	27.14	5.91	13	2.47	23.7	33	Pass
7	5	2535	QPSK	12	MID	21.23	27.19	5.96	13	2.47	23.7	33	Pass
7	5	2535	QPSK	12	HIGH	21.17	27.22	6.05	13	2.47	23.64	33	Pass
7	5	2535	QPSK	1	LOW	22.11	27.48	5.37	13	2.47	24.58	33	Pass
7	5	2535	QPSK	1	MID	22.19	27.53	5.34	13	2.47	24.66	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	QPSK	1	HIGH	22.08	27.43	5.35	13	2.47	24.55	33	Pass
7	5	2535	16QAM	25	LOW	20.26	27.63	7.37	13	2.47	22.73	33	Pass
7	5	2535	16QAM	12	LOW	20.21	27.28	7.07	13	2.47	22.68	33	Pass
7	5	2535	16QAM	12	MID	20.23	27.29	7.06	13	2.47	22.7	33	Pass
7	5	2535	16QAM	12	HIGH	20.19	27.23	7.04	13	2.47	22.66	33	Pass
7	5	2535	16QAM	1	LOW	21.22	27.43	6.21	13	2.47	23.69	33	Pass
7	5	2535	16QAM	1	MID	21.31	27.52	6.21	13	2.47	23.78	33	Pass
7	5	2535	16QAM	1	HIGH	21.26	27.49	6.23	13	2.47	23.73	33	Pass
7	5	2567.5	QPSK	25	LOW	21.28	27.72	6.44	13	2.47	23.75	33	Pass
7	5	2567.5	QPSK	12	LOW	21.27	27.19	5.92	13	2.47	23.74	33	Pass
7	5	2567.5	QPSK	12	MID	21.25	27.2	5.95	13	2.47	23.72	33	Pass
7	5	2567.5	QPSK	12	HIGH	21.28	27.23	5.95	13	2.47	23.75	33	Pass
7	5	2567.5	QPSK	1	LOW	22.19	27.98	5.79	13	2.47	24.66	33	Pass
7	5	2567.5	QPSK	1	MID	22.34	28.04	5.70	13	2.47	24.81	33	Pass
7	5	2567.5	QPSK	1	HIGH	22.19	27.93	5.74	13	2.47	24.66	33	Pass
7	5	2567.5	16QAM	25	LOW	20.4	27.51	7.11	13	2.47	22.87	33	Pass
7	5	2567.5	16QAM	12	LOW	20.29	28.06	7.77	13	2.47	22.76	33	Pass
7	5	2567.5	16QAM	12	MID	20.29	28.06	7.77	13	2.47	22.76	33	Pass
7	5	2567.5	16QAM	12	HIGH	20.27	27.94	7.67	13	2.47	22.74	33	Pass
7	5	2567.5	16QAM	1	LOW	21.11	26.68	5.57	13	2.47	23.58	33	Pass
7	5	2567.5	16QAM	1	MID	21.24	26.81	5.57	13	2.47	23.71	33	Pass
7	5	2567.5	16QAM	1	HIGH	21.09	26.65	5.56	13	2.47	23.56	33	Pass
7	10	2505	QPSK	50	LOW	21.2	27.37	6.17	13	2.47	23.67	33	Pass
7	10	2505	QPSK	25	LOW	21.22	27.53	6.31	13	2.47	23.69	33	Pass
7	10	2505	QPSK	25	MID	21.19	27.49	6.30	13	2.47	23.66	33	Pass
7	10	2505	QPSK	25	HIGH	21.27	27.61	6.34	13	2.47	23.74	33	Pass
7	10	2505	QPSK	1	LOW	22.06	26.71	4.65	13	2.47	24.53	33	Pass
7	10	2505	QPSK	1	MID	22.28	26.95	4.67	13	2.47	24.75	33	Pass
7	10	2505	QPSK	1	HIGH	22.06	26.85	4.79	13	2.47	24.53	33	Pass
7	10	2505	16QAM	50	LOW	20.25	27.85	7.60	13	2.47	22.72	33	Pass
7	10	2505	16QAM	25	LOW	20.27	27.38	7.11	13	2.47	22.74	33	Pass
7	10	2505	16QAM	25	MID	20.26	27.37	7.11	13	2.47	22.73	33	Pass
7	10	2505	16QAM	25	HIGH	20.36	27.64	7.28	13	2.47	22.83	33	Pass
7	10	2505	16QAM	1	LOW	21.66	27.12	5.46	13	2.47	24.13	33	Pass
7	10	2505	16QAM	1	MID	21.94	27.51	5.57	13	2.47	24.41	33	Pass
7	10	2505	16QAM	1	HIGH	21.68	27.48	5.80	13	2.47	24.15	33	Pass
7	10	2535	QPSK	50	LOW	21.29	27.7	6.41	13	2.47	23.76	33	Pass
7	10	2535	QPSK	25	LOW	21.31	27.62	6.31	13	2.47	23.78	33	Pass
7	10	2535	QPSK	25	MID	21.32	27.66	6.34	13	2.47	23.79	33	Pass
7	10	2535	QPSK	25	HIGH	21.24	27.63	6.39	13	2.47	23.71	33	Pass
7	10	2535	QPSK	1	LOW	22.2	27.74	5.54	13	2.47	24.67	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	QPSK	1	MID	22.39	27.79	5.40	13	2.47	24.86	33	Pass
7	10	2535	QPSK	1	HIGH	22.18	27.7	5.52	13	2.47	24.65	33	Pass
7	10	2535	16QAM	50	LOW	20.36	27.63	7.27	13	2.47	22.83	33	Pass
7	10	2535	16QAM	25	LOW	20.38	27.72	7.34	13	2.47	22.85	33	Pass
7	10	2535	16QAM	25	MID	20.37	27.78	7.41	13	2.47	22.84	33	Pass
7	10	2535	16QAM	25	HIGH	20.3	28	7.70	13	2.47	22.77	33	Pass
7	10	2535	16QAM	1	LOW	21.36	26.46	5.10	13	2.47	23.83	33	Pass
7	10	2535	16QAM	1	MID	21.56	26.55	4.99	13	2.47	24.03	33	Pass
7	10	2535	16QAM	1	HIGH	21.3	26.4	5.10	13	2.47	23.77	33	Pass
7	10	2565	QPSK	50	LOW	21.36	27.59	6.23	13	2.47	23.83	33	Pass
7	10	2565	QPSK	25	LOW	21.35	28.26	6.91	13	2.47	23.82	33	Pass
7	10	2565	QPSK	25	MID	21.37	28.22	6.85	13	2.47	23.84	33	Pass
7	10	2565	QPSK	25	HIGH	21.32	28.08	6.76	13	2.47	23.79	33	Pass
7	10	2565	QPSK	1	LOW	22.23	27.24	5.01	13	2.47	24.7	33	Pass
7	10	2565	QPSK	1	MID	22.49	27.37	4.88	13	2.47	24.96	33	Pass
7	10	2565	QPSK	1	HIGH	22.25	27.27	5.02	13	2.47	24.72	33	Pass
7	10	2565	16QAM	50	LOW	20.42	28.14	7.72	13	2.47	22.89	33	Pass
7	10	2565	16QAM	25	LOW	20.51	27.97	7.46	13	2.47	22.98	33	Pass
7	10	2565	16QAM	25	MID	20.51	28	7.49	13	2.47	22.98	33	Pass
7	10	2565	16QAM	25	HIGH	20.45	27.91	7.46	13	2.47	22.92	33	Pass
7	10	2565	16QAM	1	LOW	21.3	26.77	5.47	13	2.47	23.77	33	Pass
7	10	2565	16QAM	1	MID	21.47	26.83	5.36	13	2.47	23.94	33	Pass
7	10	2565	16QAM	1	HIGH	21.25	26.73	5.48	13	2.47	23.72	33	Pass
7	15	2507.5	QPSK	75	LOW	21.24	27.9	6.66	13	2.47	23.71	33	Pass
7	15	2507.5	QPSK	38	LOW	21.24	27.89	6.65	13	2.47	23.71	33	Pass
7	15	2507.5	QPSK	38	MID	21.24	27.89	6.65	13	2.47	23.71	33	Pass
7	15	2507.5	QPSK	38	HIGH	21.25	27.9	6.65	13	2.47	23.72	33	Pass
7	15	2507.5	QPSK	1	LOW	22.09	26.95	4.86	13	2.47	24.56	33	Pass
7	15	2507.5	QPSK	1	MID	22.17	27.23	5.06	13	2.47	24.64	33	Pass
7	15	2507.5	QPSK	1	HIGH	22.08	27.24	5.16	13	2.47	24.55	33	Pass
7	15	2507.5	16QAM	75	LOW	20.28	27.58	7.30	13	2.47	22.75	33	Pass
7	15	2507.5	16QAM	38	LOW	20.25	27.56	7.31	13	2.47	22.72	33	Pass
7	15	2507.5	16QAM	38	MID	20.26	27.58	7.32	13	2.47	22.73	33	Pass
7	15	2507.5	16QAM	38	HIGH	20.23	27.6	7.37	13	2.47	22.7	33	Pass
7	15	2507.5	16QAM	1	LOW	21.24	26.08	4.84	13	2.47	23.71	33	Pass
7	15	2507.5	16QAM	1	MID	21.32	26.2	4.88	13	2.47	23.79	33	Pass
7	15	2507.5	16QAM	1	HIGH	21.24	26.21	4.97	13	2.47	23.71	33	Pass
7	15	2535	QPSK	75	LOW	21.28	28.12	6.84	13	2.47	23.75	33	Pass
7	15	2535	QPSK	38	LOW	21.29	28.13	6.84	13	2.47	23.76	33	Pass
7	15	2535	QPSK	38	MID	21.28	28.12	6.84	13	2.47	23.75	33	Pass
7	15	2535	QPSK	38	HIGH	21.27	28.1	6.83	13	2.47	23.74	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	LOW	22.12	26.89	4.77	13	2.47	24.59	33	Pass
7	15	2535	QPSK	1	MID	22.25	26.95	4.70	13	2.47	24.72	33	Pass
7	15	2535	QPSK	1	HIGH	22.12	26.81	4.69	13	2.47	24.59	33	Pass
7	15	2535	16QAM	75	LOW	20.26	27.8	7.54	13	2.47	22.73	33	Pass
7	15	2535	16QAM	38	LOW	20.28	27.82	7.54	13	2.47	22.75	33	Pass
7	15	2535	16QAM	38	MID	20.28	27.82	7.54	13	2.47	22.75	33	Pass
7	15	2535	16QAM	38	HIGH	20.29	27.82	7.53	13	2.47	22.76	33	Pass
7	15	2535	16QAM	1	LOW	21.6	26.83	5.23	13	2.47	24.07	33	Pass
7	15	2535	16QAM	1	MID	21.68	26.88	5.20	13	2.47	24.15	33	Pass
7	15	2535	16QAM	1	HIGH	21.59	26.76	5.17	13	2.47	24.06	33	Pass
7	15	2562.5	QPSK	75	LOW	21.32	28.37	7.05	13	2.47	23.79	33	Pass
7	15	2562.5	QPSK	38	LOW	21.36	28.42	7.06	13	2.47	23.83	33	Pass
7	15	2562.5	QPSK	38	MID	21.34	28.43	7.09	13	2.47	23.81	33	Pass
7	15	2562.5	QPSK	38	HIGH	21.33	28.47	7.14	13	2.47	23.80	33	Pass
7	15	2562.5	QPSK	1	LOW	22.21	27.22	5.01	13	2.47	24.68	33	Pass
7	15	2562.5	QPSK	1	MID	22.32	27.3	4.98	13	2.47	24.79	33	Pass
7	15	2562.5	QPSK	1	HIGH	22.14	27.13	4.99	13	2.47	24.61	33	Pass
7	15	2562.5	16QAM	75	LOW	20.35	27.73	7.38	13	2.47	22.82	33	Pass
7	15	2562.5	16QAM	38	LOW	20.37	27.73	7.36	13	2.47	22.84	33	Pass
7	15	2562.5	16QAM	38	MID	20.39	27.81	7.42	13	2.47	22.86	33	Pass
7	15	2562.5	16QAM	38	HIGH	20.38	27.92	7.54	13	2.47	22.85	33	Pass
7	15	2562.5	16QAM	1	LOW	21.84	28.04	6.20	13	2.47	24.31	33	Pass
7	15	2562.5	16QAM	1	MID	21.96	28.09	6.13	13	2.47	24.43	33	Pass
7	15	2562.5	16QAM	1	HIGH	21.82	27.93	6.11	13	2.47	24.29	33	Pass
7	20	2510	QPSK	100	LOW	21.21	27.89	6.68	13	2.47	23.68	33	Pass
7	20	2510	QPSK	50	LOW	21.14	27.53	6.39	13	2.47	23.61	33	Pass
7	20	2510	QPSK	50	MID	21.15	27.52	6.37	13	2.47	23.62	33	Pass
7	20	2510	QPSK	50	HIGH	21.27	27.72	6.45	13	2.47	23.74	33	Pass
7	20	2510	QPSK	1	LOW	21.92	26.81	4.89	13	2.47	24.39	33	Pass
7	20	2510	QPSK	1	MID	22.35	27.24	4.89	13	2.47	24.82	33	Pass
7	20	2510	QPSK	1	HIGH	21.9	27.08	5.18	13	2.47	24.37	33	Pass
7	20	2510	16QAM	100	LOW	20.27	27.52	7.25	13	2.47	22.74	33	Pass
7	20	2510	16QAM	50	LOW	20.15	27.51	7.36	13	2.47	22.62	33	Pass
7	20	2510	16QAM	50	MID	20.18	27.54	7.36	13	2.47	22.65	33	Pass
7	20	2510	16QAM	50	HIGH	20.31	27.77	7.46	13	2.47	22.78	33	Pass
7	20	2510	16QAM	1	LOW	21.54	26.75	5.21	13	2.47	24.01	33	Pass
7	20	2510	16QAM	1	MID	21.89	27.12	5.23	13	2.47	24.36	33	Pass
7	20	2510	16QAM	1	HIGH	21.54	27.04	5.5	13	2.47	24.01	33	Pass
7	20	2535	QPSK	100	LOW	21.29	27.89	6.60	13	2.47	23.76	33	Pass
7	20	2535	QPSK	50	LOW	21.38	28.24	6.86	13	2.47	23.85	33	Pass
7	20	2535	QPSK	50	MID	21.37	28.23	6.86	13	2.47	23.84	33	Pass

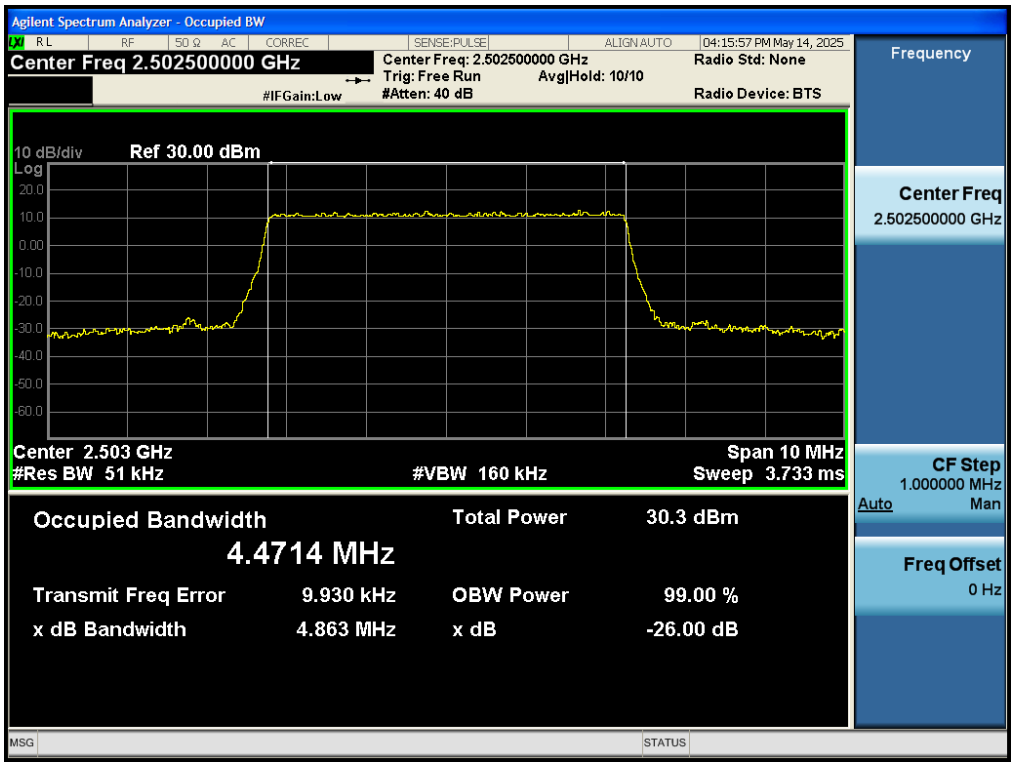
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
7	20	2535	QPSK	50	HIGH	21.19	27.87	6.68	13	2.47	23.66	33	Pass
7	20	2535	QPSK	1	LOW	22.01	27.54	5.53	13	2.47	24.48	33	Pass
7	20	2535	QPSK	1	MID	22.42	27.85	5.43	13	2.47	24.89	33	Pass
7	20	2535	QPSK	1	HIGH	21.97	27.5	5.53	13	2.47	24.44	33	Pass
7	20	2535	16QAM	100	LOW	20.38	28.13	7.75	13	2.47	22.85	33	Pass
7	20	2535	16QAM	50	LOW	20.37	28.47	8.10	13	2.47	22.84	33	Pass
7	20	2535	16QAM	50	MID	20.41	28.45	8.04	13	2.47	22.88	33	Pass
7	20	2535	16QAM	50	HIGH	20.21	28.18	7.97	13	2.47	22.68	33	Pass
7	20	2535	16QAM	1	LOW	21.36	27.31	5.95	13	2.47	23.83	33	Pass
7	20	2535	16QAM	1	MID	21.76	27.6	5.84	13	2.47	24.23	33	Pass
7	20	2535	16QAM	1	HIGH	21.35	27.24	5.89	13	2.47	23.82	33	Pass
7	20	2560	QPSK	100	LOW	21.3	28.06	6.76	13	2.47	23.77	33	Pass
7	20	2560	QPSK	50	LOW	21.37	28.06	6.69	13	2.47	23.84	33	Pass
7	20	2560	QPSK	50	MID	21.34	28.1	6.76	13	2.47	23.81	33	Pass
7	20	2560	QPSK	50	HIGH	21.24	27.88	6.64	13	2.47	23.71	33	Pass
7	20	2560	QPSK	1	LOW	22.12	27.27	5.15	13	2.47	24.59	33	Pass
7	20	2560	QPSK	1	MID	22.52	27.58	5.06	13	2.47	24.99	33	Pass
7	20	2560	QPSK	1	HIGH	22.08	27.2	5.12	13	2.47	24.55	33	Pass
7	20	2560	16QAM	100	LOW	20.36	27.79	7.43	13	2.47	22.83	33	Pass
7	20	2560	16QAM	50	LOW	20.39	27.79	7.40	13	2.47	22.86	33	Pass
7	20	2560	16QAM	50	MID	20.35	27.73	7.38	13	2.47	22.82	33	Pass
7	20	2560	16QAM	50	HIGH	20.28	27.69	7.41	13	2.47	22.75	33	Pass
7	20	2560	16QAM	1	LOW	21.34	27.61	6.27	13	2.47	23.81	33	Pass
7	20	2560	16QAM	1	MID	21.73	27.8	6.07	13	2.47	24.2	33	Pass
7	20	2560	16QAM	1	HIGH	21.33	27.53	6.20	13	2.47	23.80	33	Pass

Appendix B: Occupied bandwidth

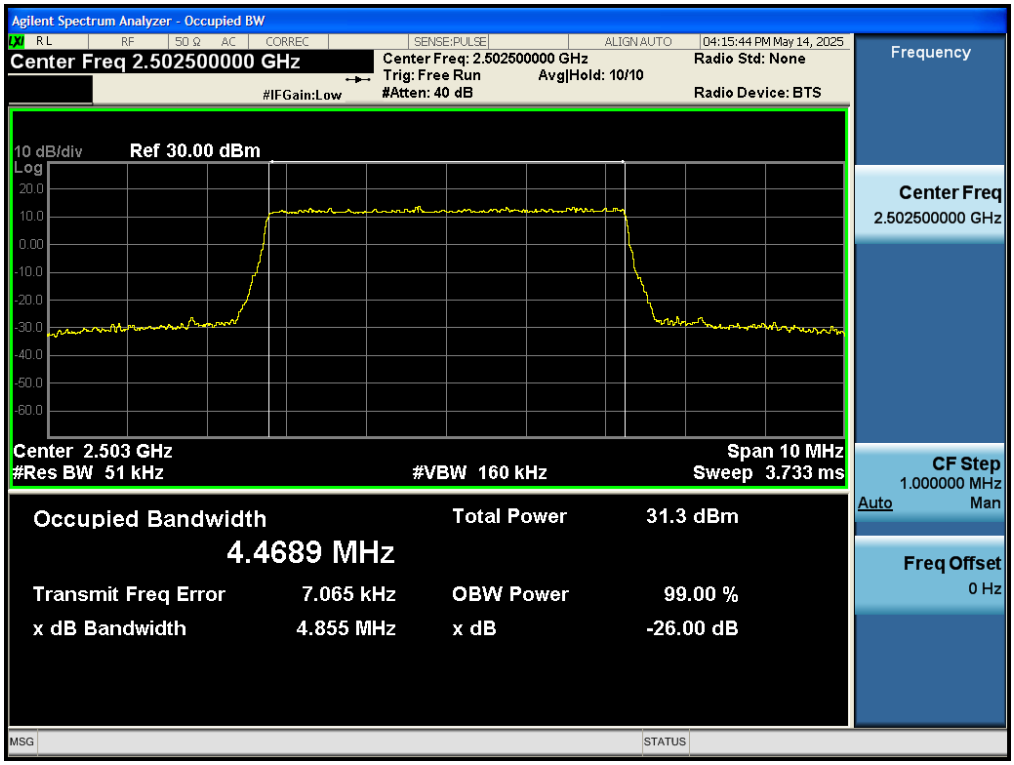
Test Result

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	4.855	No limit
7	5	2502.5	16QAM	25	LOW	4.471	4.863	No limit
7	5	2535	QPSK	25	LOW	4.479	4.875	No limit
7	5	2535	16QAM	25	LOW	4.472	4.791	No limit
7	5	2567.5	QPSK	25	LOW	4.48	4.84	No limit
7	5	2567.5	16QAM	25	LOW	4.475	4.852	No limit
7	10	2505	QPSK	50	LOW	8.955	9.616	No limit
7	10	2505	16QAM	50	LOW	8.949	9.602	No limit
7	10	2535	QPSK	50	LOW	8.957	9.602	No limit
7	10	2535	16QAM	50	LOW	8.945	9.58	No limit
7	10	2565	QPSK	50	LOW	8.946	9.575	No limit
7	10	2565	16QAM	50	LOW	8.959	9.601	No limit
7	15	2507.5	QPSK	75	LOW	13.437	14.396	No limit
7	15	2507.5	16QAM	75	LOW	13.42	14.304	No limit
7	15	2535	QPSK	75	LOW	13.412	14.401	No limit
7	15	2535	16QAM	75	LOW	13.426	14.391	No limit
7	15	2562.5	QPSK	75	LOW	13.446	14.488	No limit
7	15	2562.5	16QAM	75	LOW	13.422	14.362	No limit
7	20	2510	QPSK	100	LOW	17.902	19.078	No limit
7	20	2510	16QAM	100	LOW	17.863	18.916	No limit
7	20	2535	QPSK	100	LOW	17.899	19.014	No limit
7	20	2535	16QAM	100	LOW	17.941	19.002	No limit
7	20	2560	QPSK	100	LOW	17.894	19.119	No limit
7	20	2560	16QAM	100	LOW	17.915	19.13	No limit

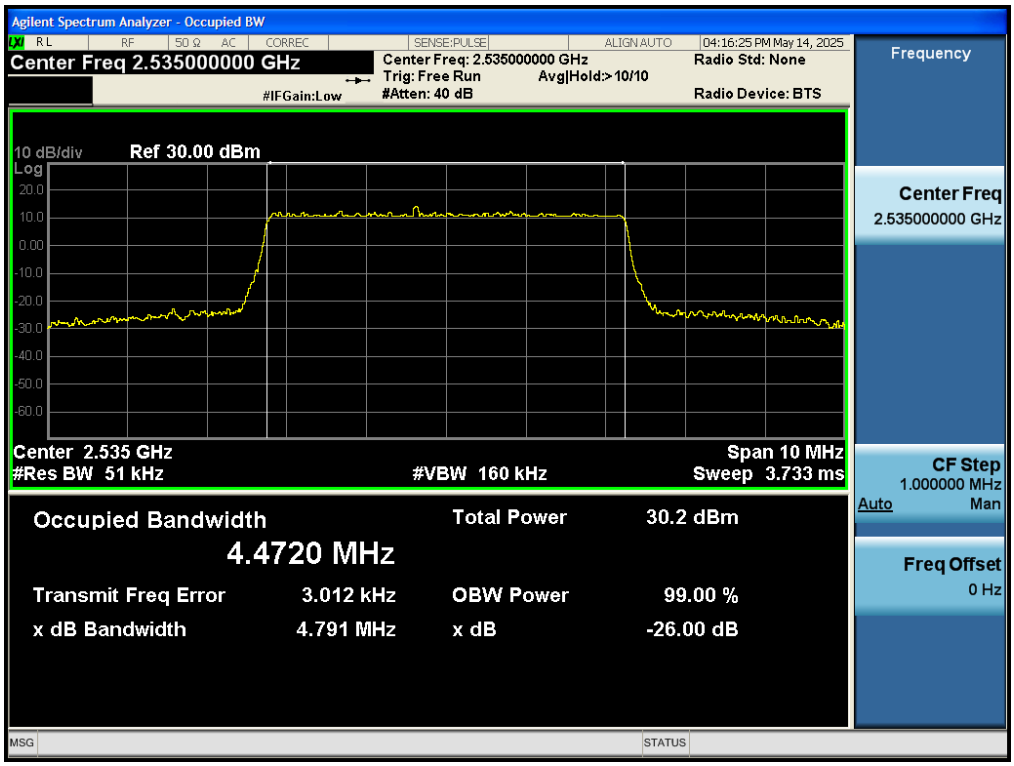
Test Graphs



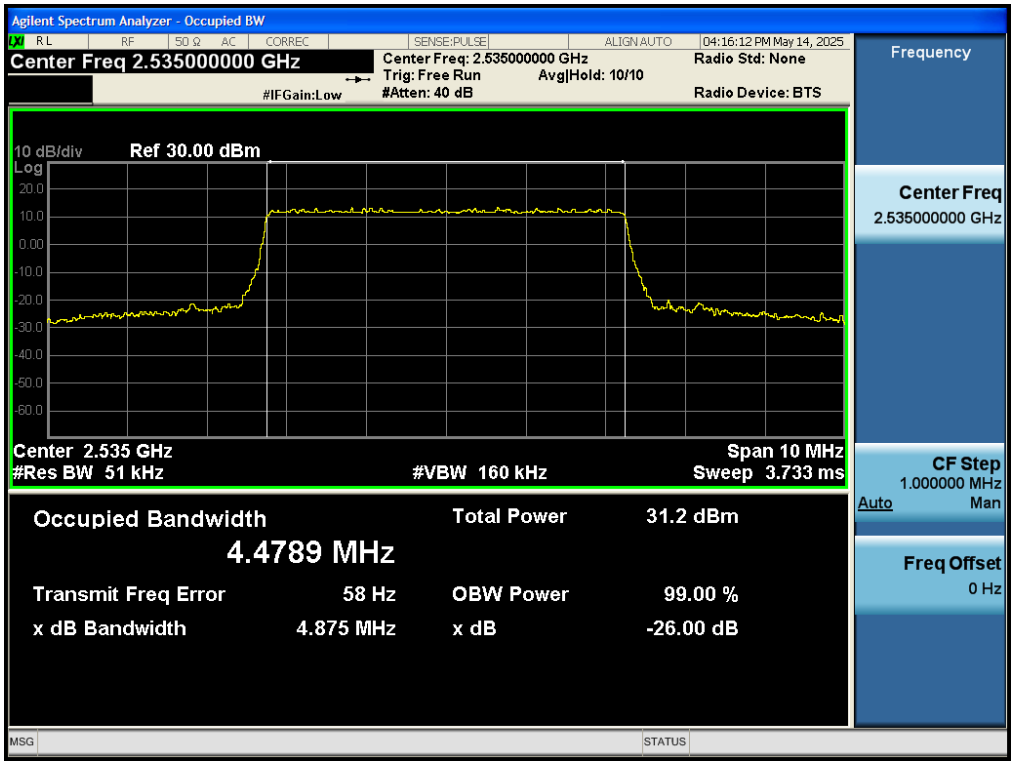
Test_Graph_band7_2502.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



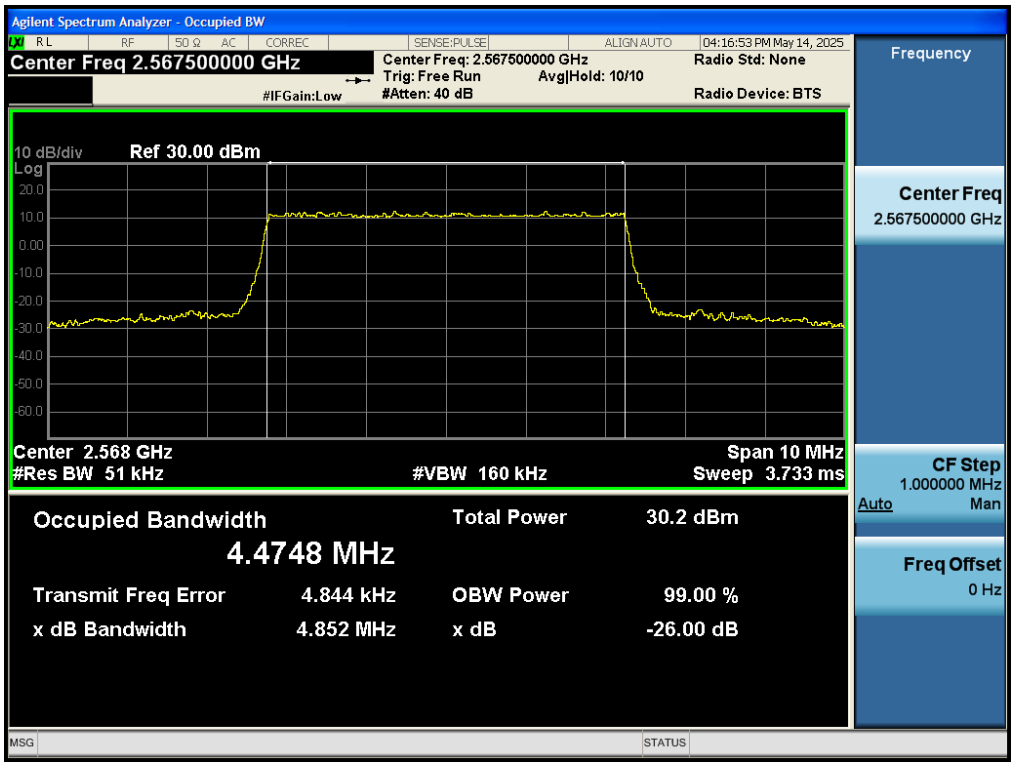
Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



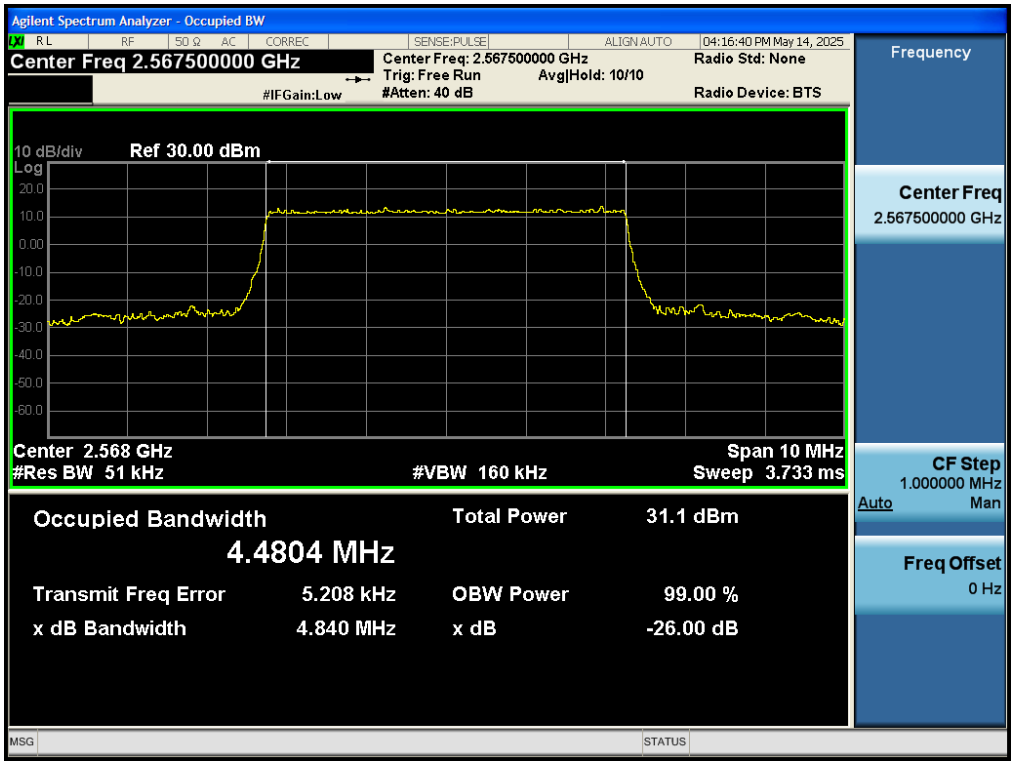
Test_Graph_band7_2535MHz_5M_16QAM_25RB#LOW_OBW&EBW



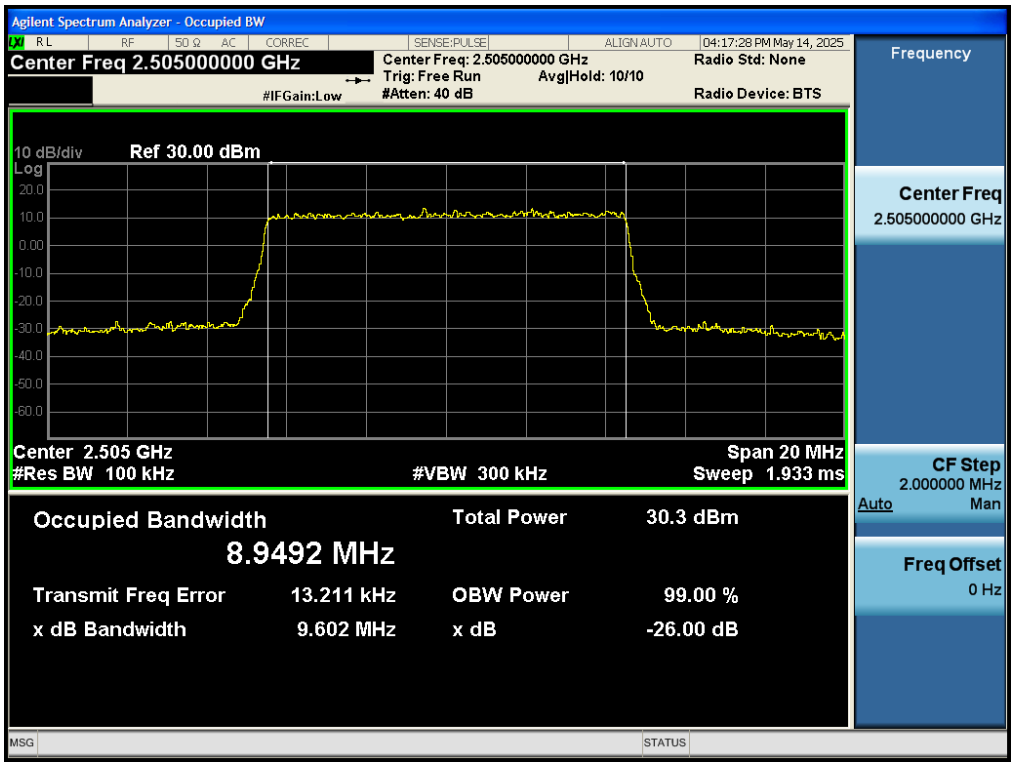
Test_Graph_band7_2535MHz_5M_QPSK_25RB#LOW_OBW&EBW



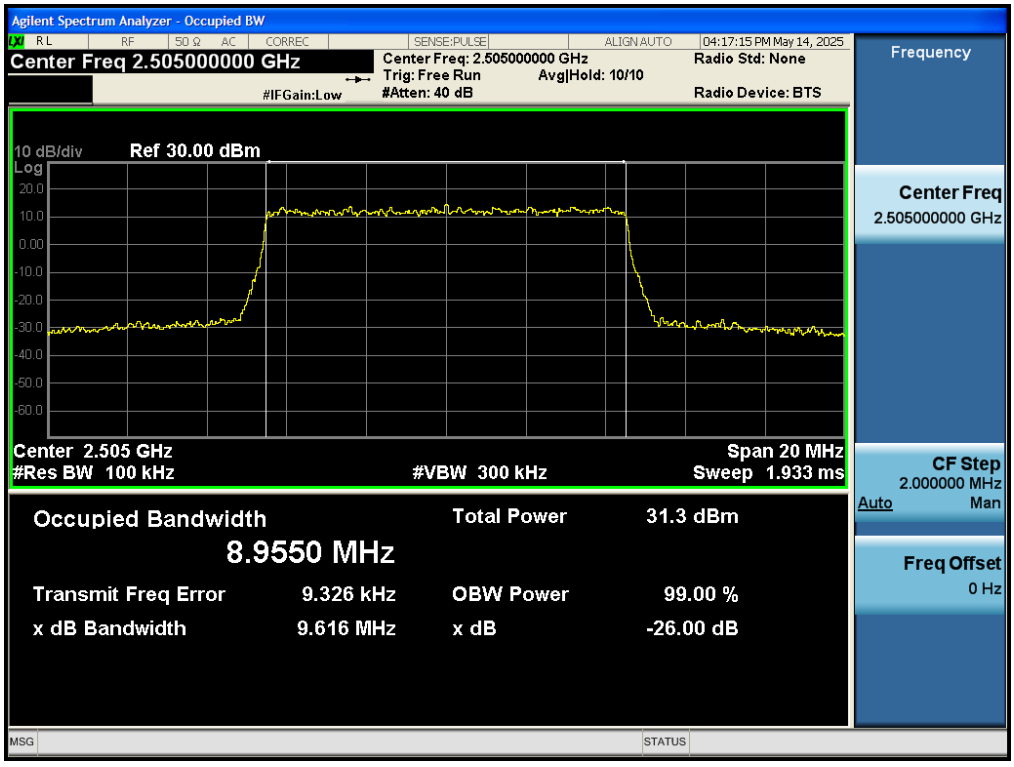
Test_Graph_band7_2567.5MHz_5M_16QAM_25RB#LOW_OBW&EBW



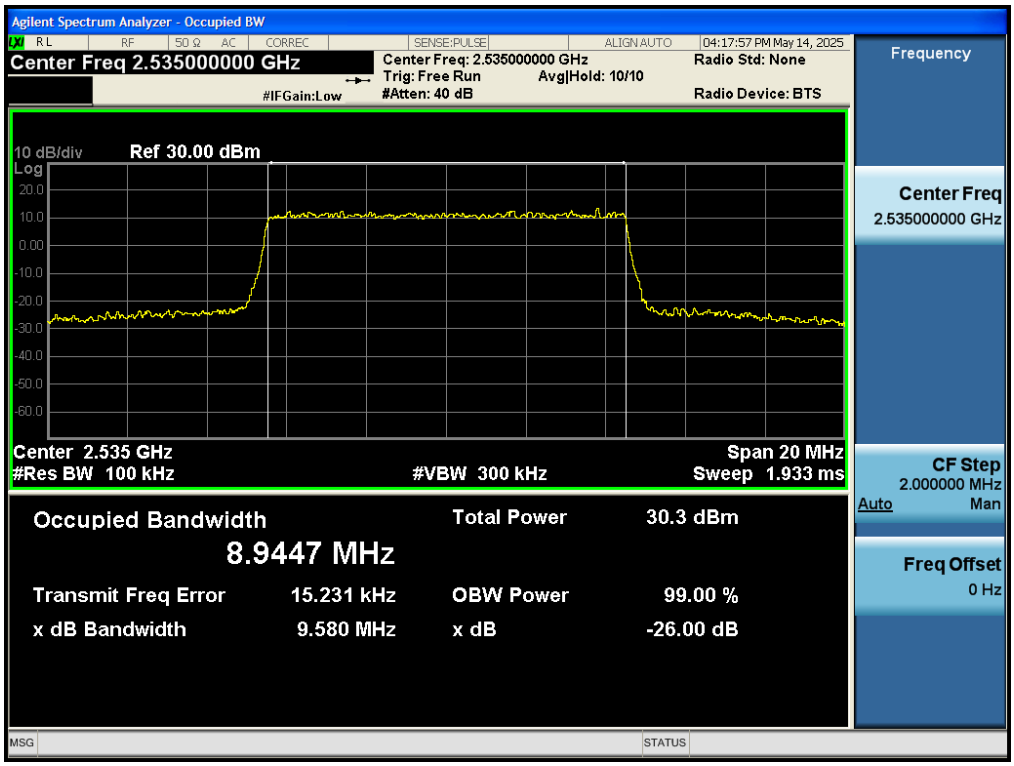
Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_OBW&EBW



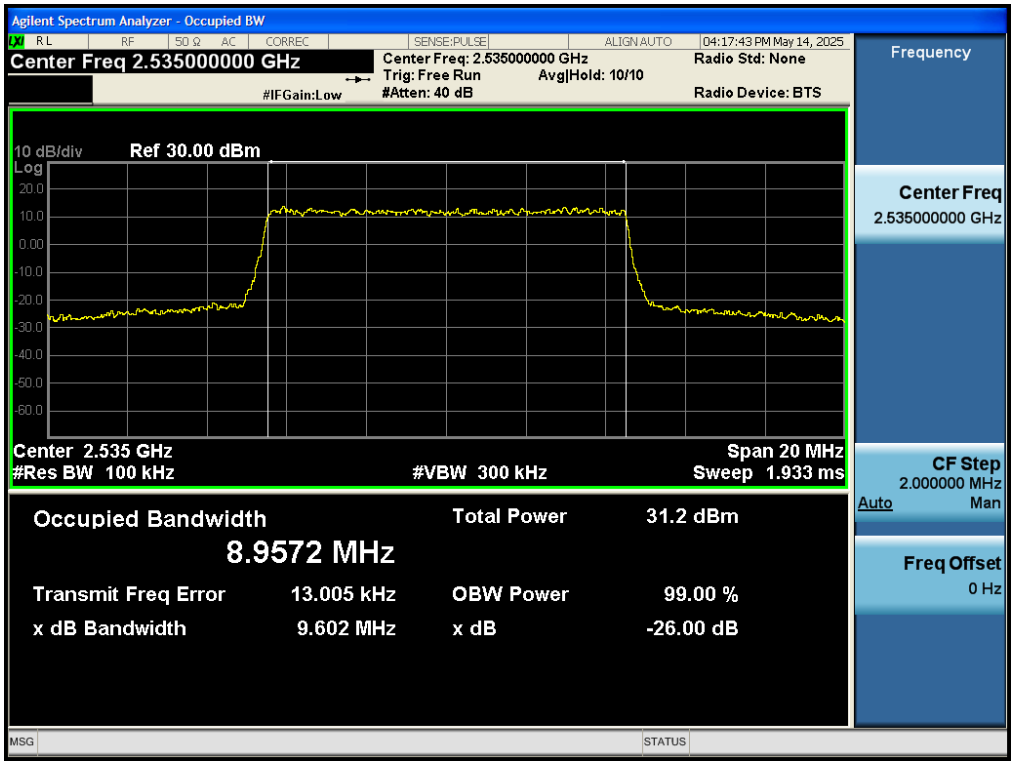
Test_Graph_band7_2505MHz_10M_16QAM_50RB#LOW_OBW&EBW



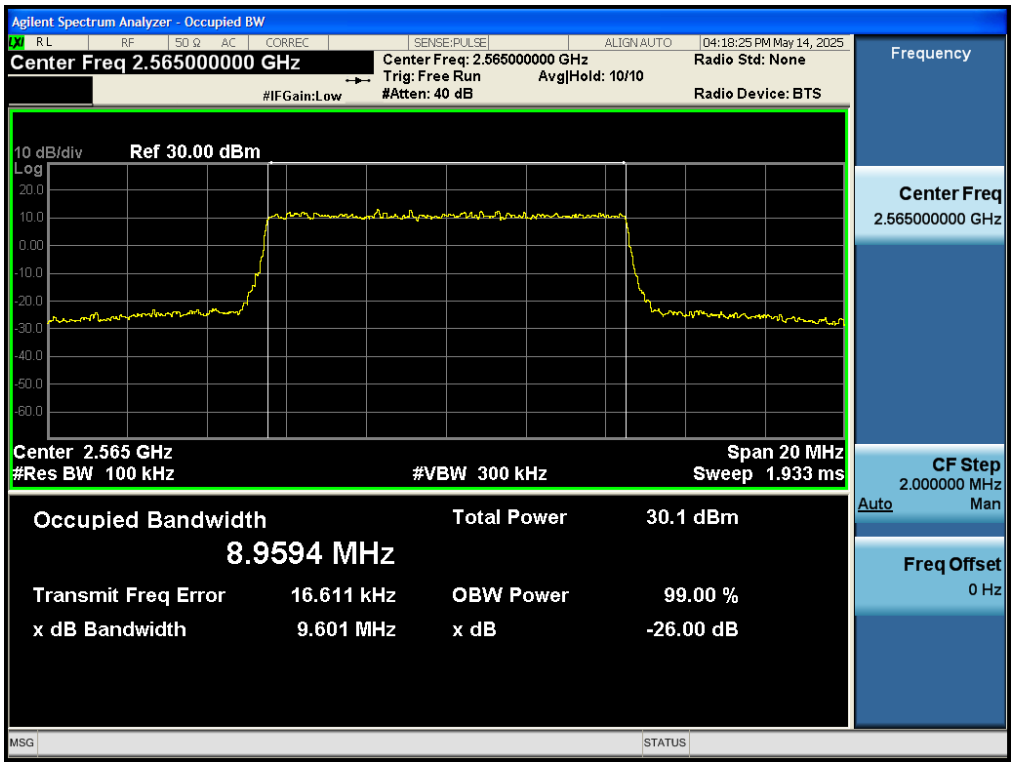
Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_OBW&EBW



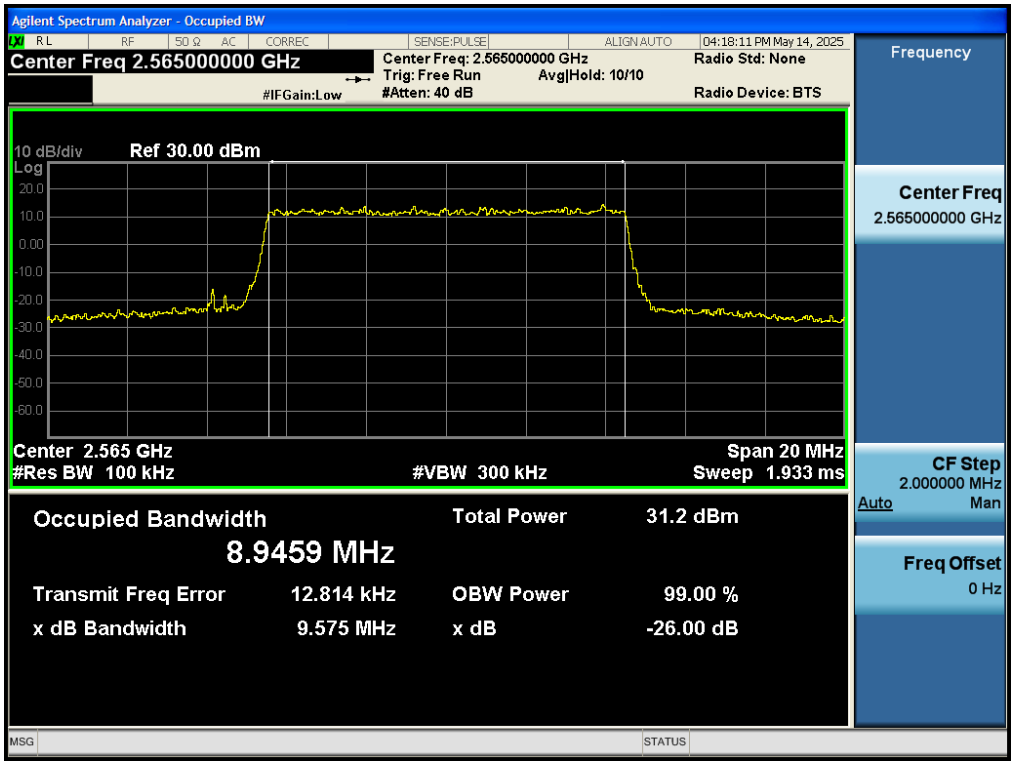
Test_Graph_band7_2535MHz_10M_16QAM_50RB#LOW_OBW&EBW



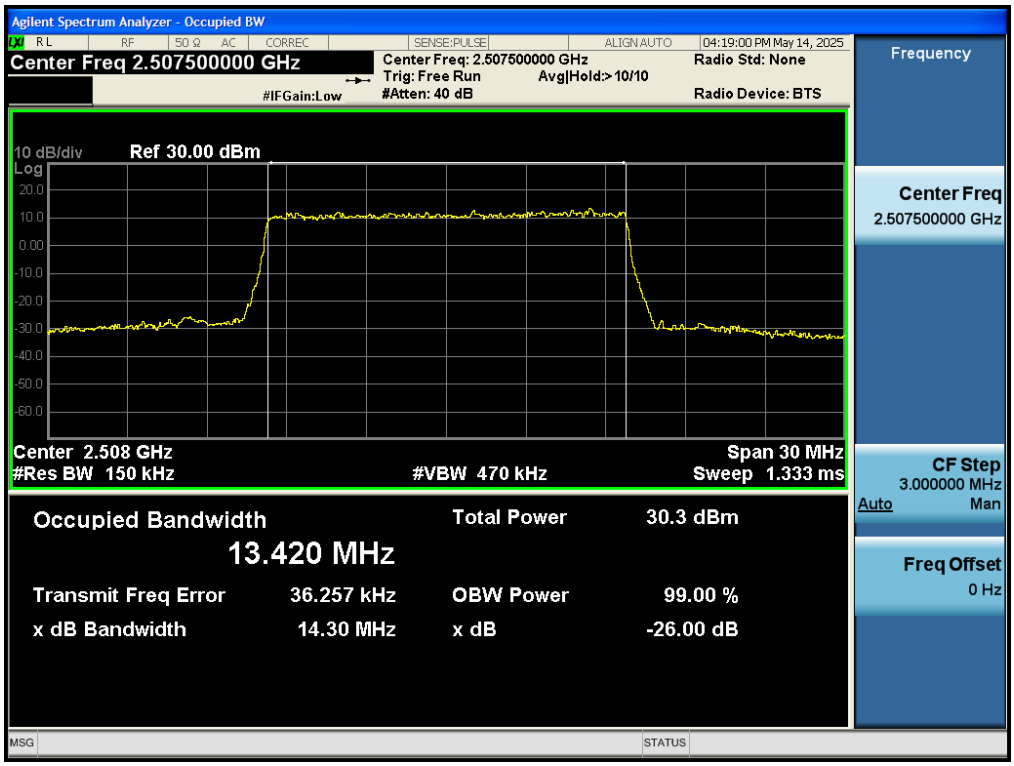
Test_Graph_band7_2535MHz_10M_QPSK_50RB#LOW_OBW&EBW



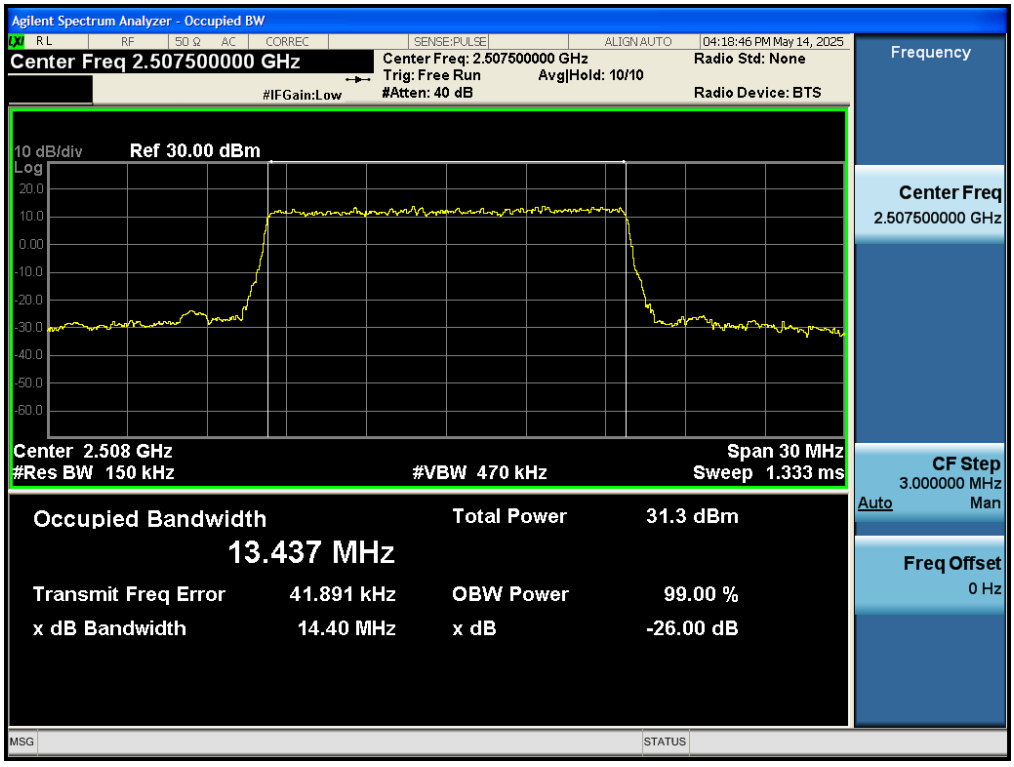
Test_Graph_band7_2565MHz_10M_16QAM_50RB#LOW_OBW&EBW



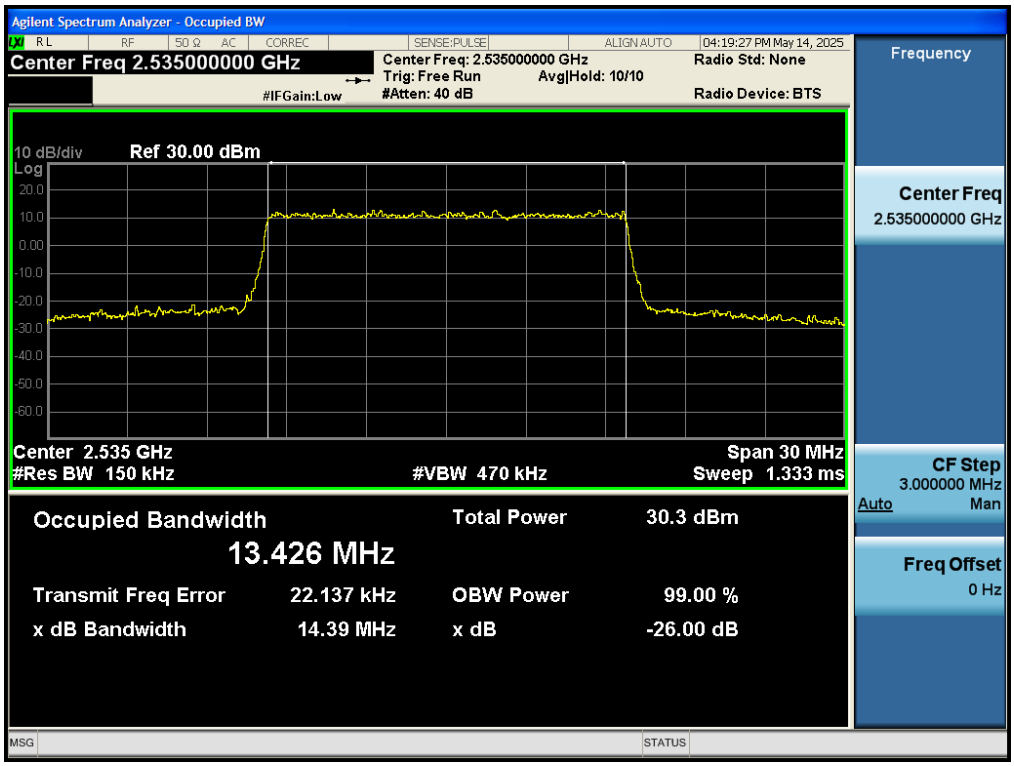
Test_Graph_band7_2565MHz_10M_QPSK_50RB#LOW_OBW&EBW



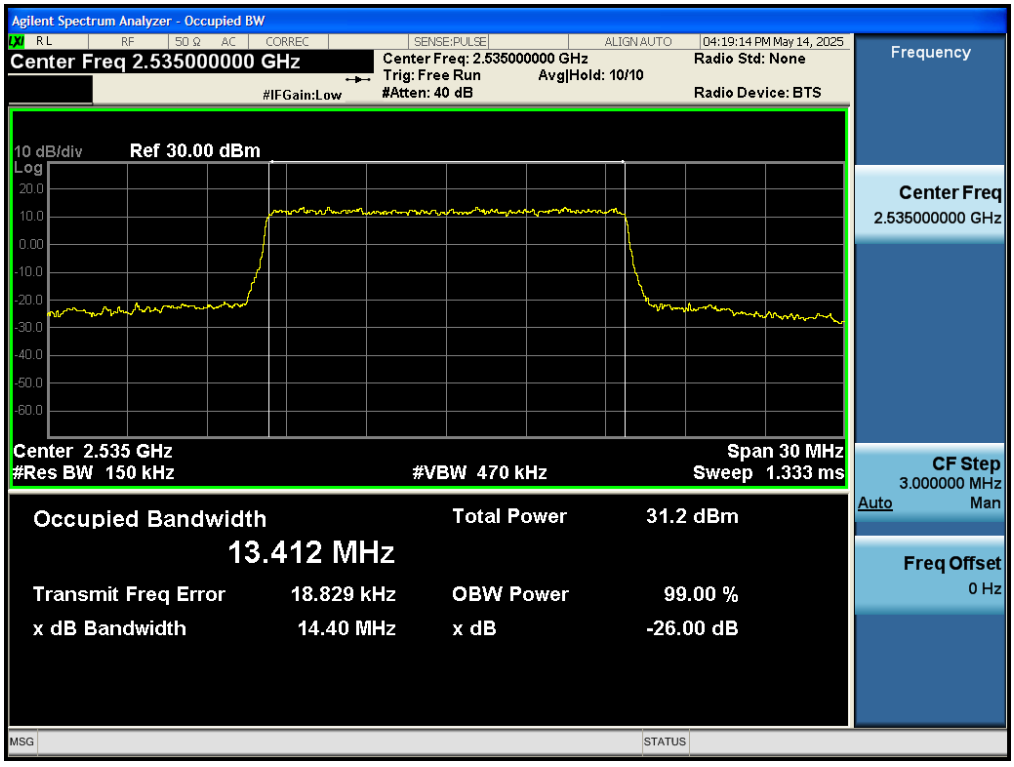
Test_Graph_band7_2507.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



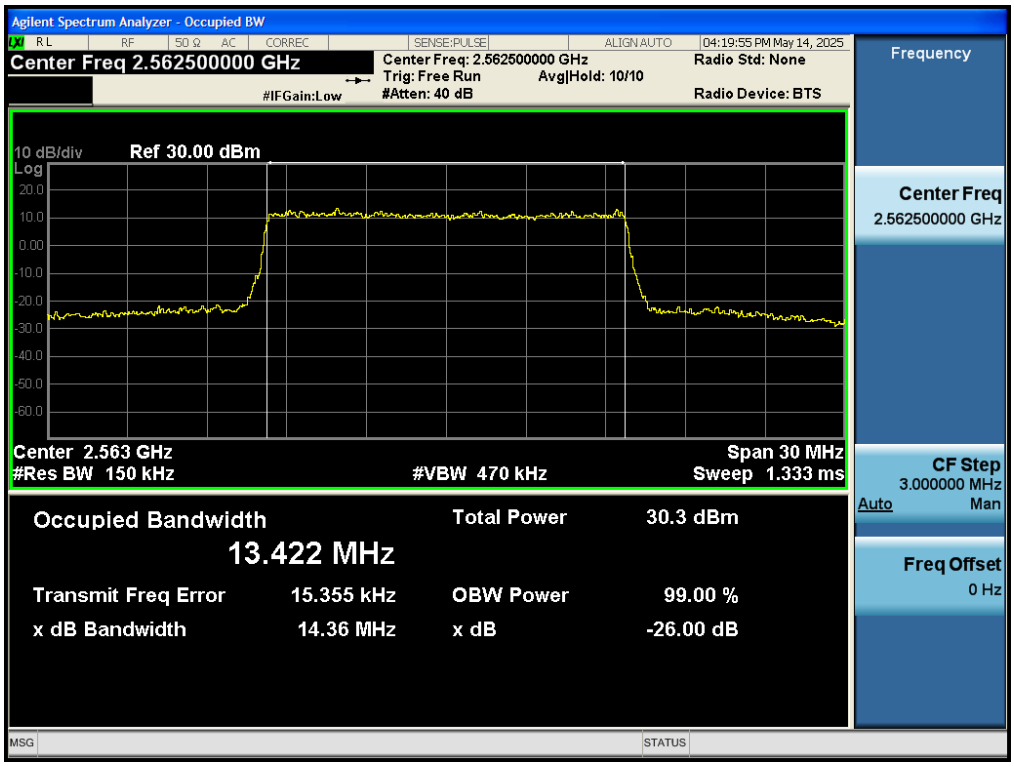
Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



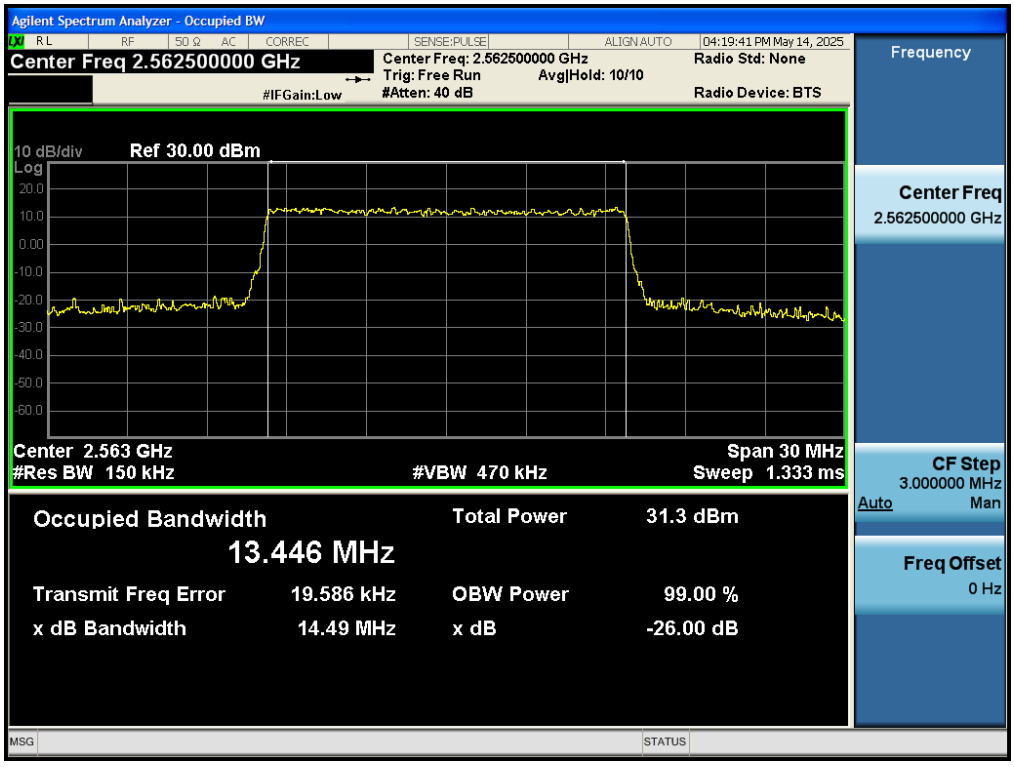
Test_Graph_band7_2535MHz_15M_16QAM_75RB#LOW_OBW&EBW



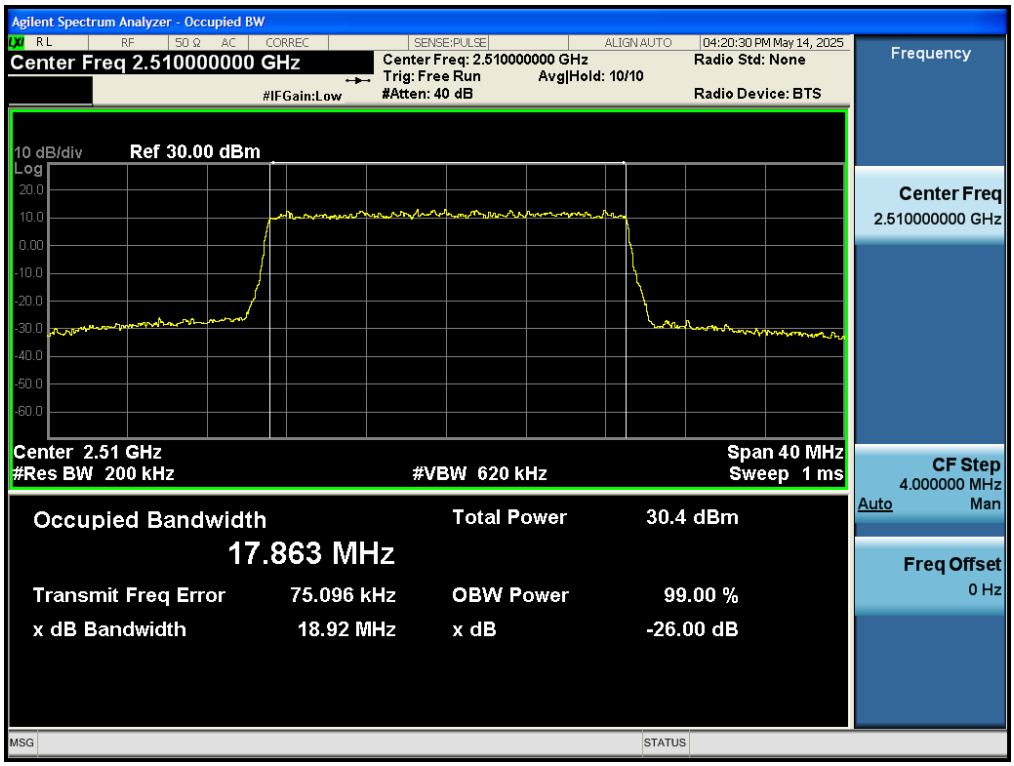
Test_Graph_band7_2535MHz_15M_QPSK_75RB#LOW_OBW&EBW



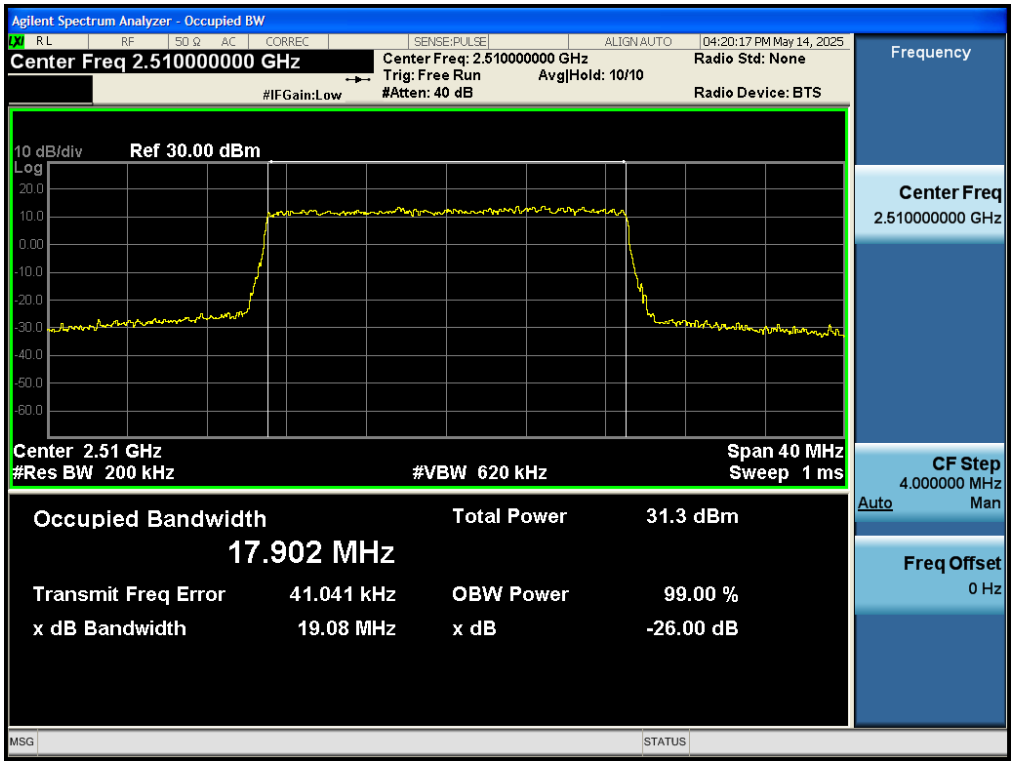
Test_Graph_band7_2562.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



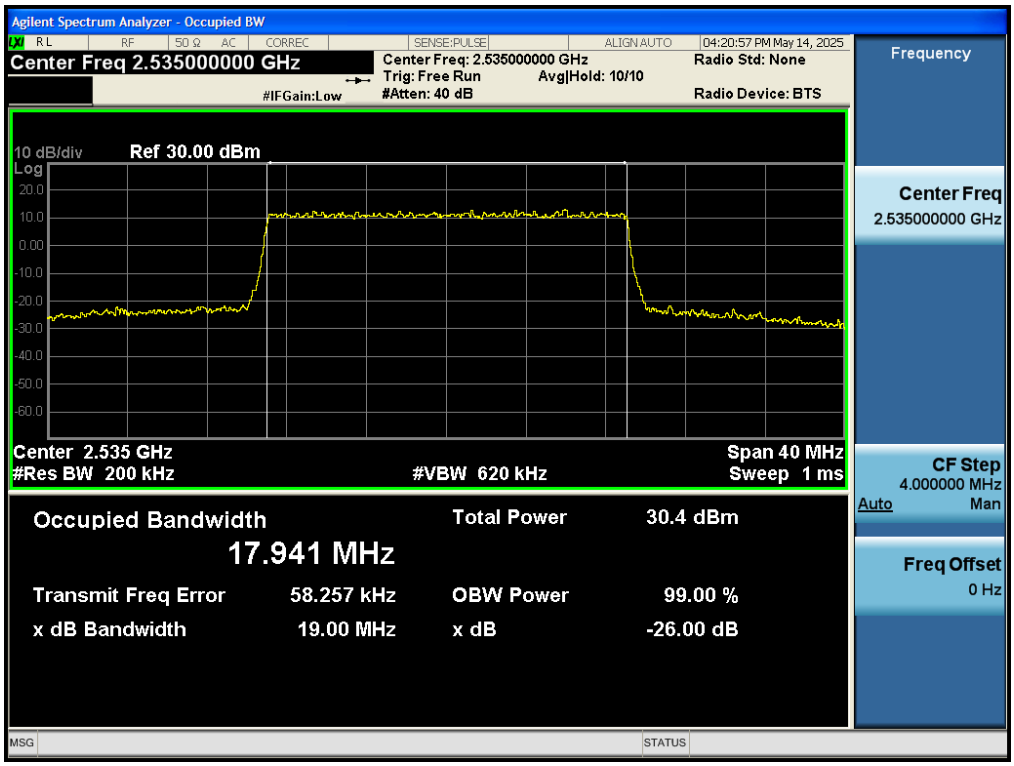
Test_Graph_band7_2562.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



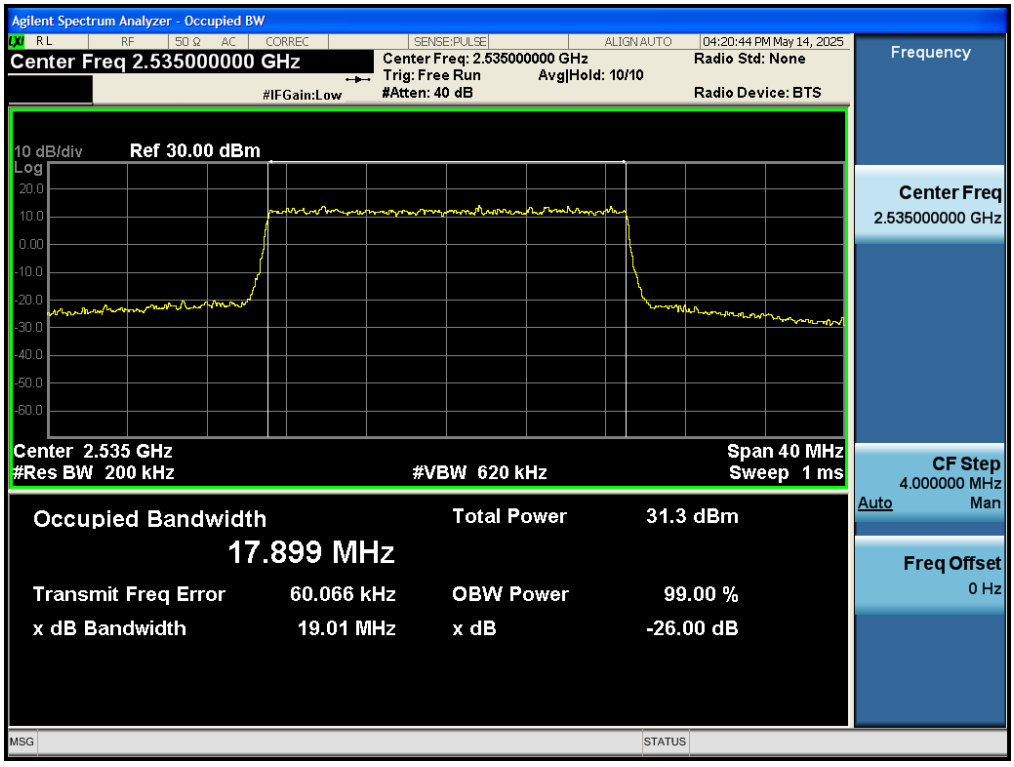
Test_Graph_band7_2510MHz_20M_16QAM_100RB#LOW_OBW&EBW



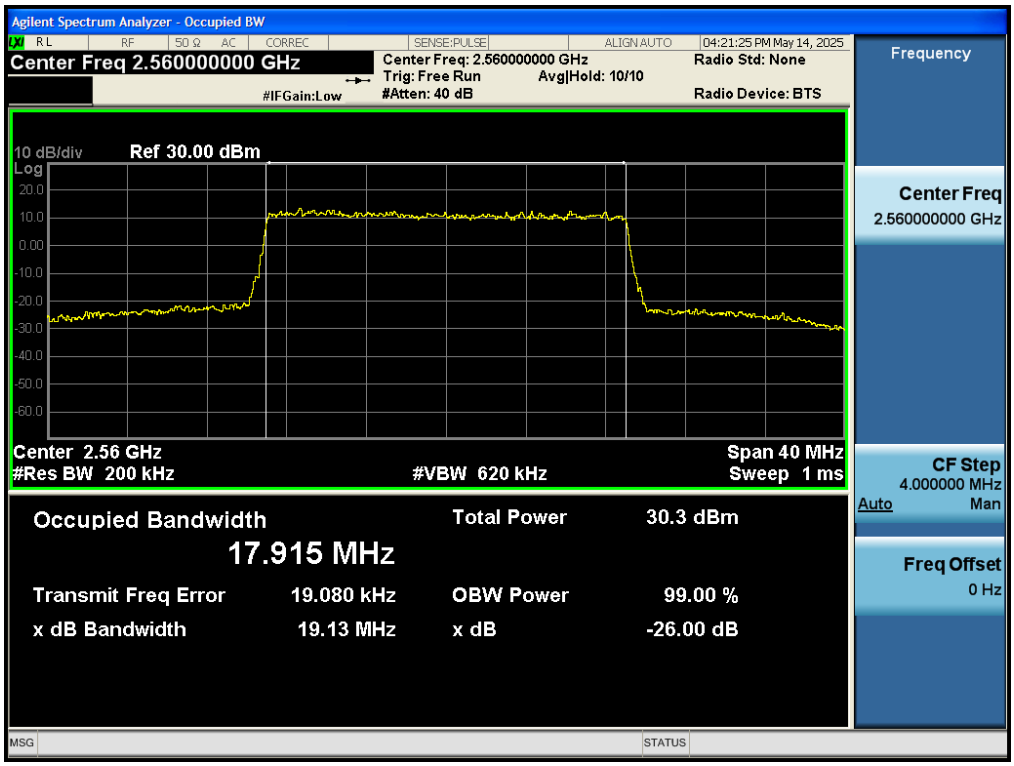
Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_OBW&EBW



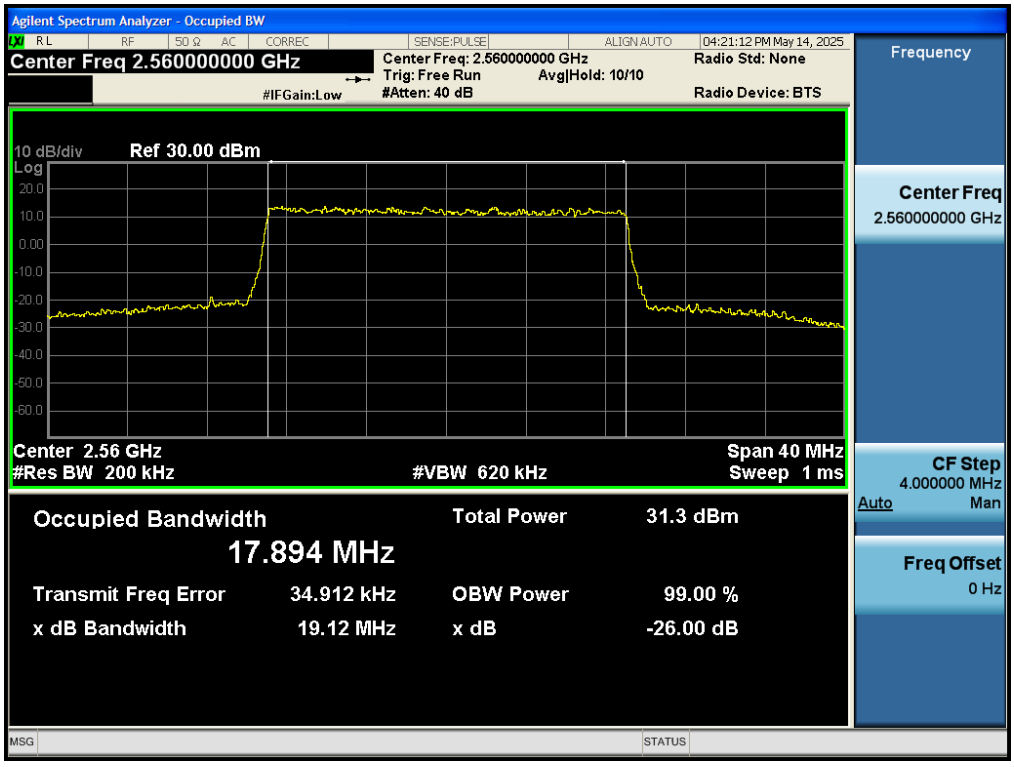
Test_Graph_band7_2535MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band7_2535MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band7_2560MHz_20M_16QAM_100RB#LOW_OBW&EBW



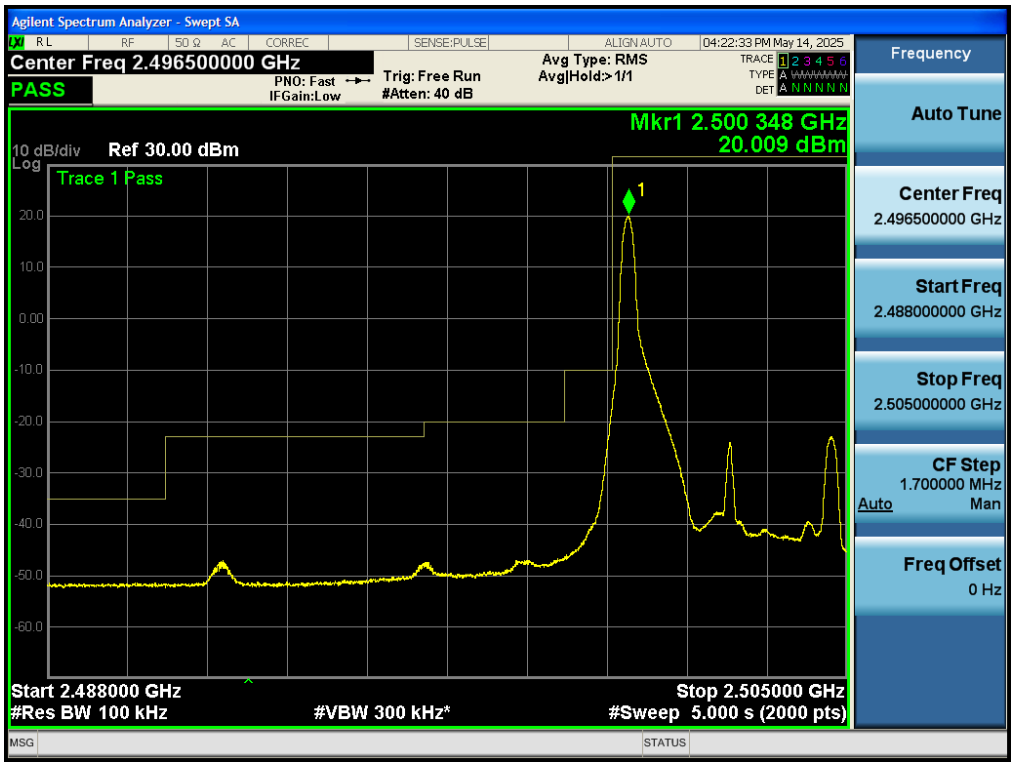
Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_OBW&EBW

Appendix C: Band edge emissions

Test Result

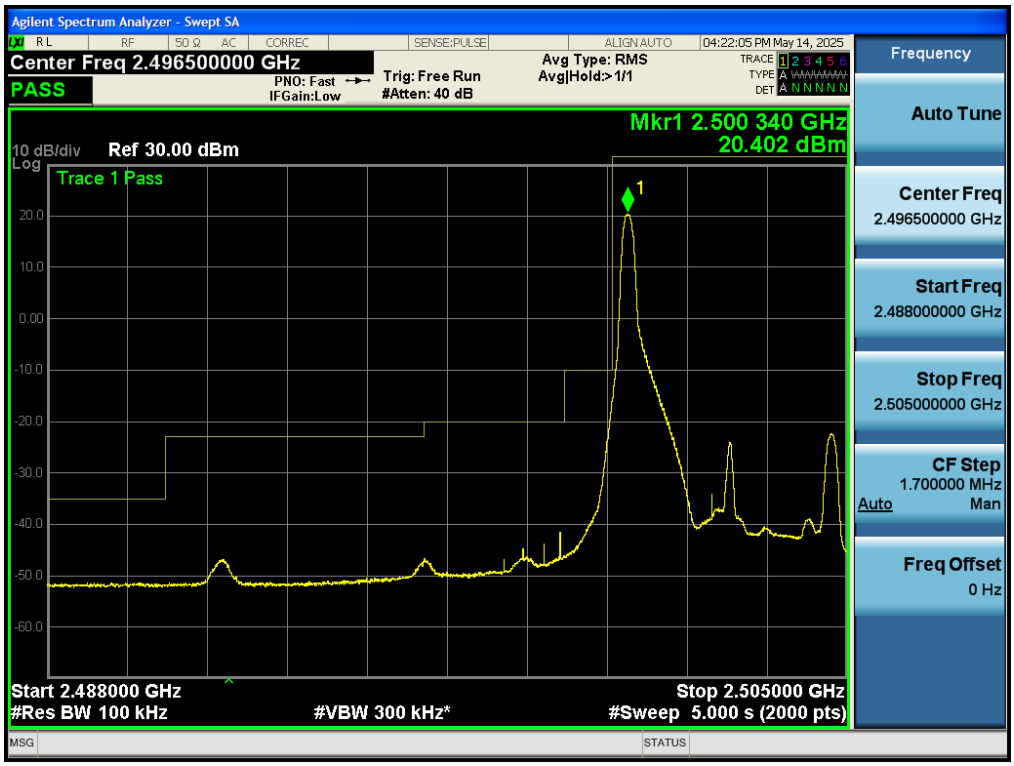
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
7	5	2502.5	QPSK	1	LOW	Pass
7	5	2502.5	QPSK	25	LOW	Pass
7	5	2502.5	16QAM	1	LOW	Pass
7	5	2502.5	16QAM	25	LOW	Pass
7	5	2567.5	QPSK	1	HIGH	Pass
7	5	2567.5	QPSK	25	LOW	Pass
7	5	2567.5	16QAM	1	HIGH	Pass
7	5	2567.5	16QAM	25	LOW	Pass
7	10	2505	QPSK	1	LOW	Pass
7	10	2505	QPSK	50	LOW	Pass
7	10	2505	16QAM	1	LOW	Pass
7	10	2505	16QAM	50	LOW	Pass
7	10	2565	QPSK	1	HIGH	Pass
7	10	2565	QPSK	50	LOW	Pass
7	10	2565	16QAM	1	HIGH	Pass
7	10	2565	16QAM	50	LOW	Pass
7	15	2507.5	QPSK	1	LOW	Pass
7	15	2507.5	QPSK	75	LOW	Pass
7	15	2507.5	16QAM	1	LOW	Pass
7	15	2507.5	16QAM	75	LOW	Pass
7	15	2562.5	QPSK	1	HIGH	Pass
7	15	2562.5	QPSK	75	LOW	Pass
7	15	2562.5	16QAM	1	HIGH	Pass
7	15	2562.5	16QAM	75	LOW	Pass
7	20	2510	QPSK	1	LOW	Pass
7	20	2510	QPSK	100	LOW	Pass
7	20	2510	16QAM	1	LOW	Pass
7	20	2510	16QAM	100	LOW	Pass
7	20	2560	QPSK	1	HIGH	Pass
7	20	2560	QPSK	100	LOW	Pass
7	20	2560	16QAM	1	HIGH	Pass
7	20	2560	16QAM	100	LOW	Pass

Test Graphs



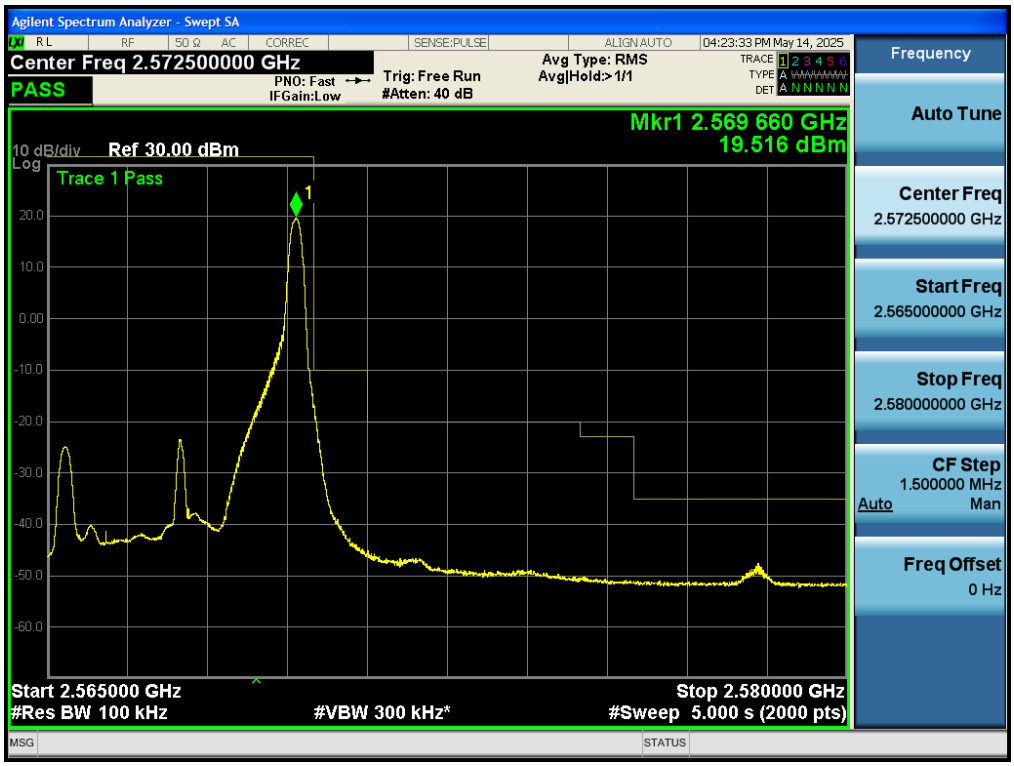
Test_Graph_band7_2502.5MHz_5M_16QAM_1RB#LOW_Band edge

Test_Graph_band7_2502.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band7_2502.5MHz_5M_QPSK_1RB#LOW_Band edge

Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_Band edge

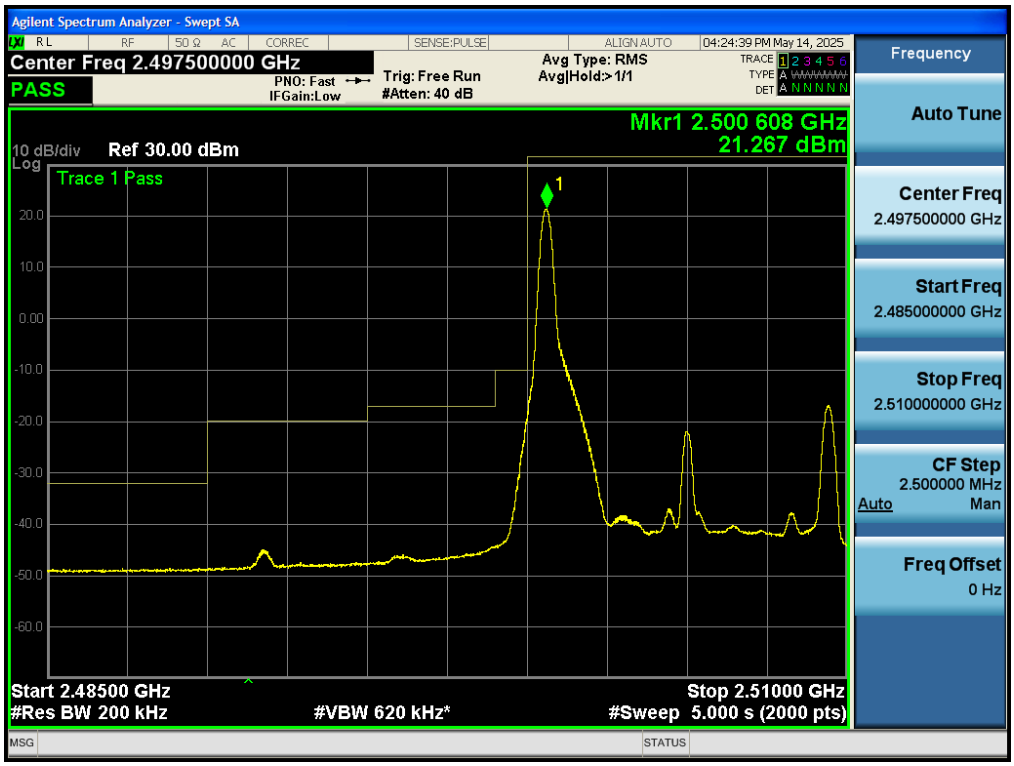


Test_Graph_band7_2567.5MHz_5M_16QAM_1RB#HIGH_Band edge

Test_Graph_band7_2567.5MHz_5M_16QAM_25RB#LOW_Band edge

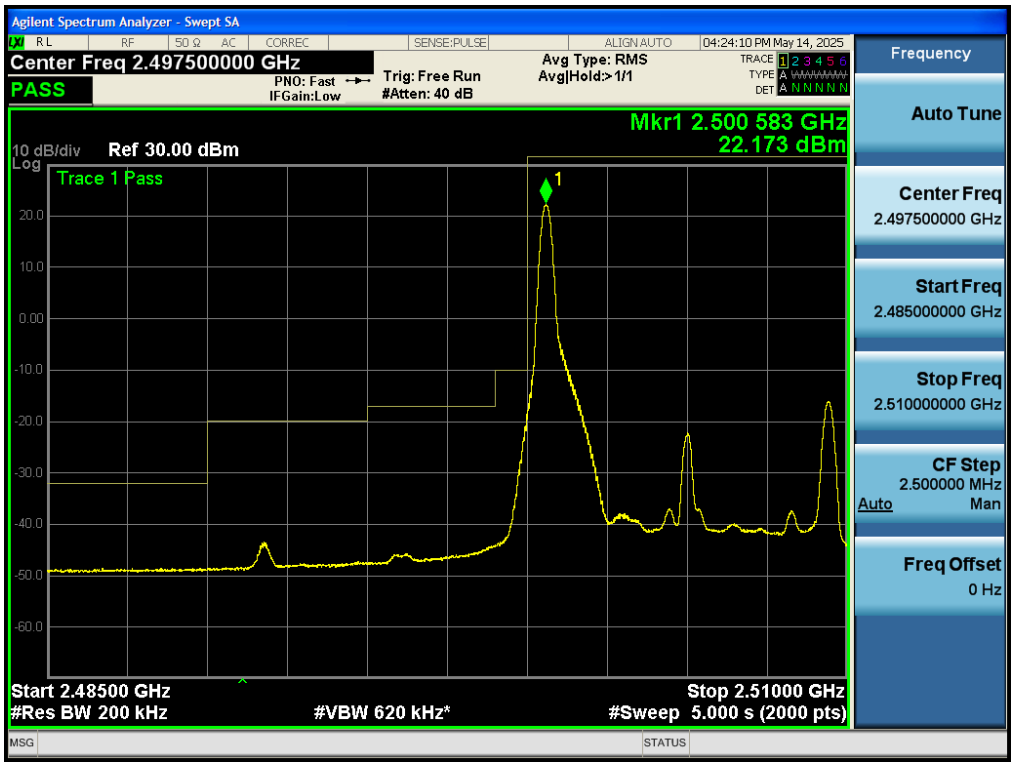
Test_Graph_band7_2567.5MHz_5M_QPSK_1RB#HIGH_Band edge

Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_Band edge



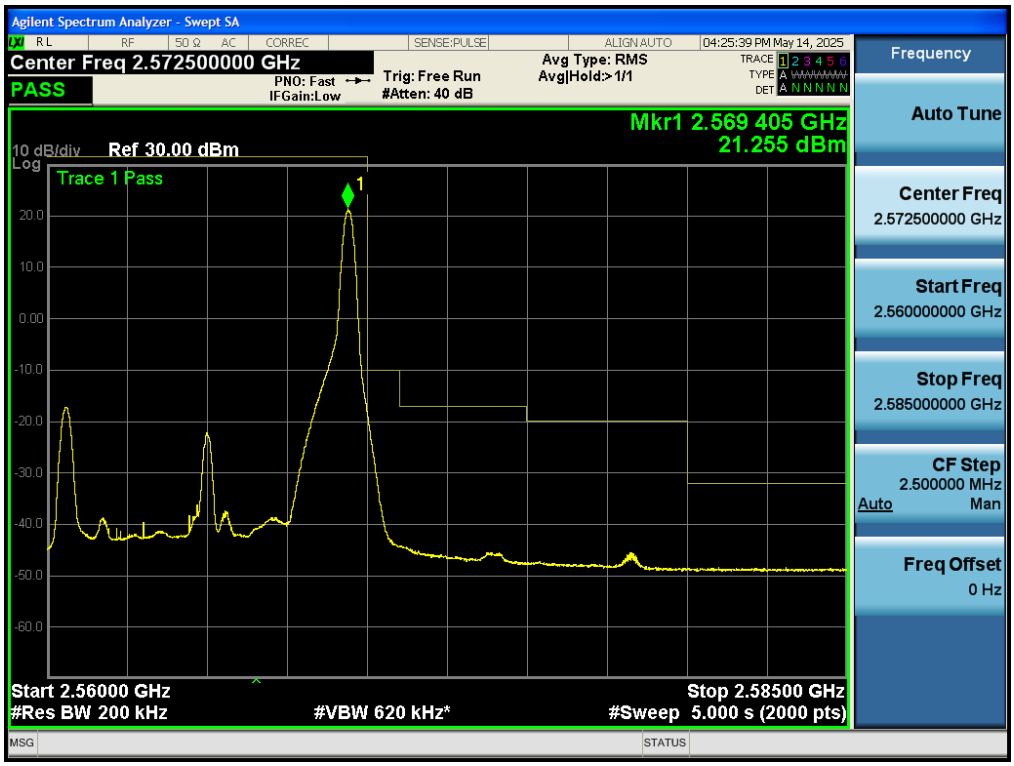
Test_Graph_band7_2505MHz_10M_16QAM_1RB#LOW_Band edge

Test_Graph_band7_2505MHz_10M_16QAM_50RB#LOW_Band edge



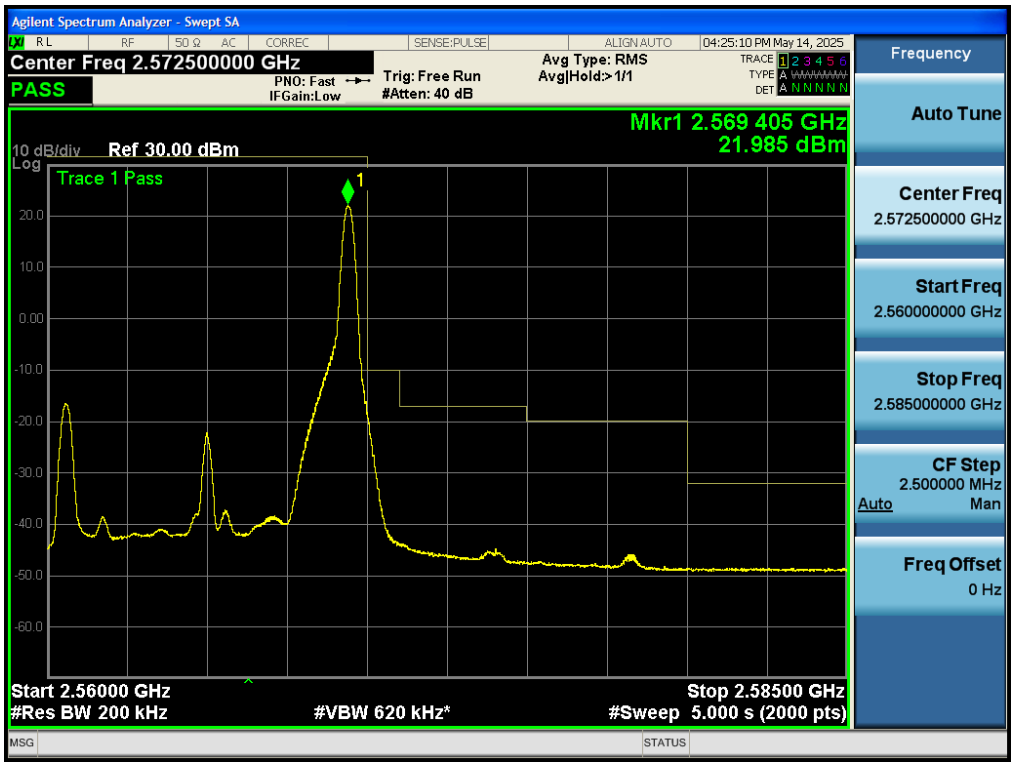
Test_Graph_band7_2505MHz_10M_QPSK_1RB#LOW_Band edge

Test_Graph_band7_2505MHz_10M_QPSK_50RB#LOW_Band edge



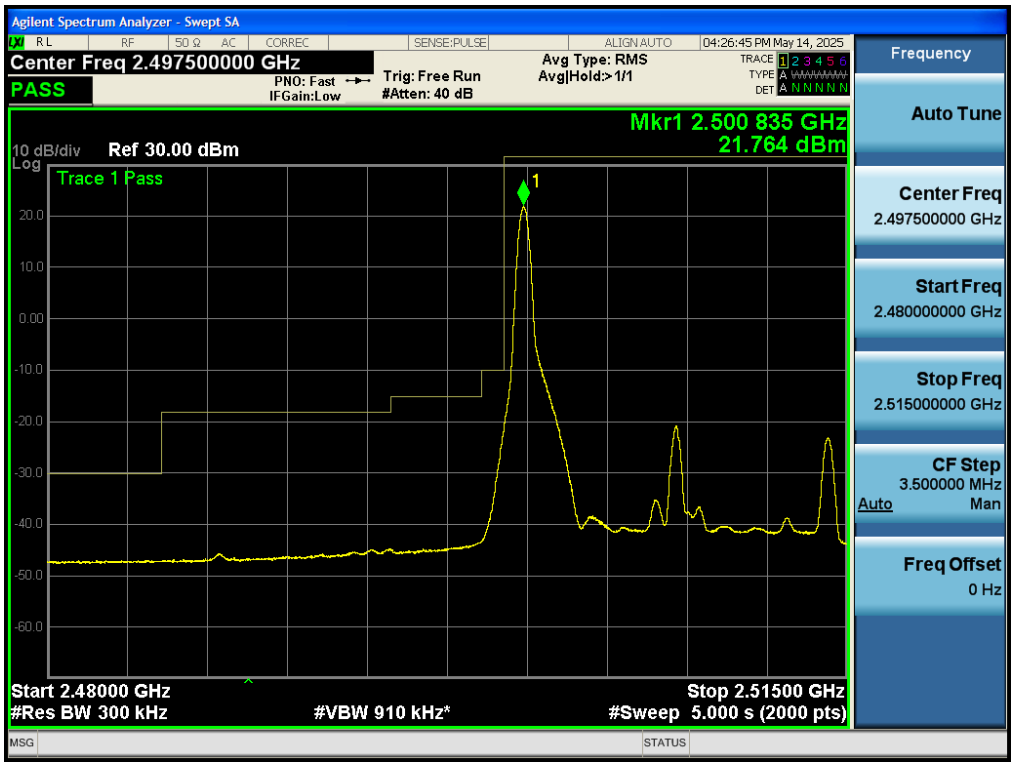
Test_Graph_band7_2565MHz_10M_16QAM_1RB#HIGH_Band edge

Test_Graph_band7_2565MHz_10M_16QAM_50RB#LOW_Band edge



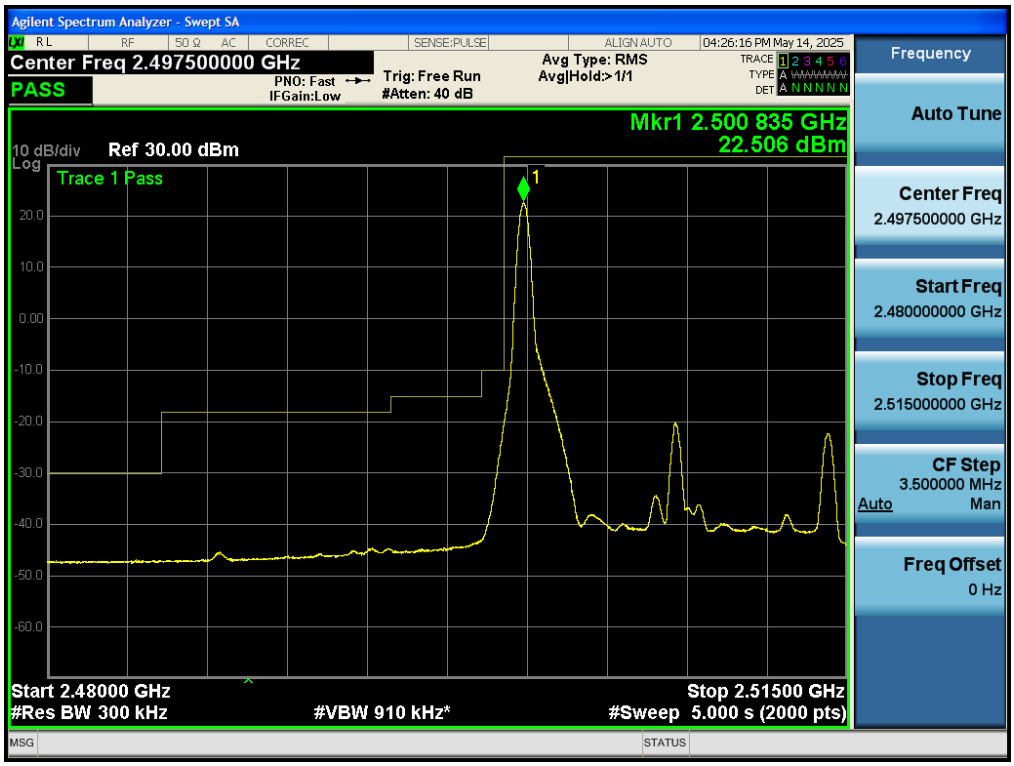
Test_Graph_band7_2565MHz_10M_QPSK_1RB#HIGH_Band edge

Test_Graph_band7_2565MHz_10M_QPSK_50RB#LOW_Band edge



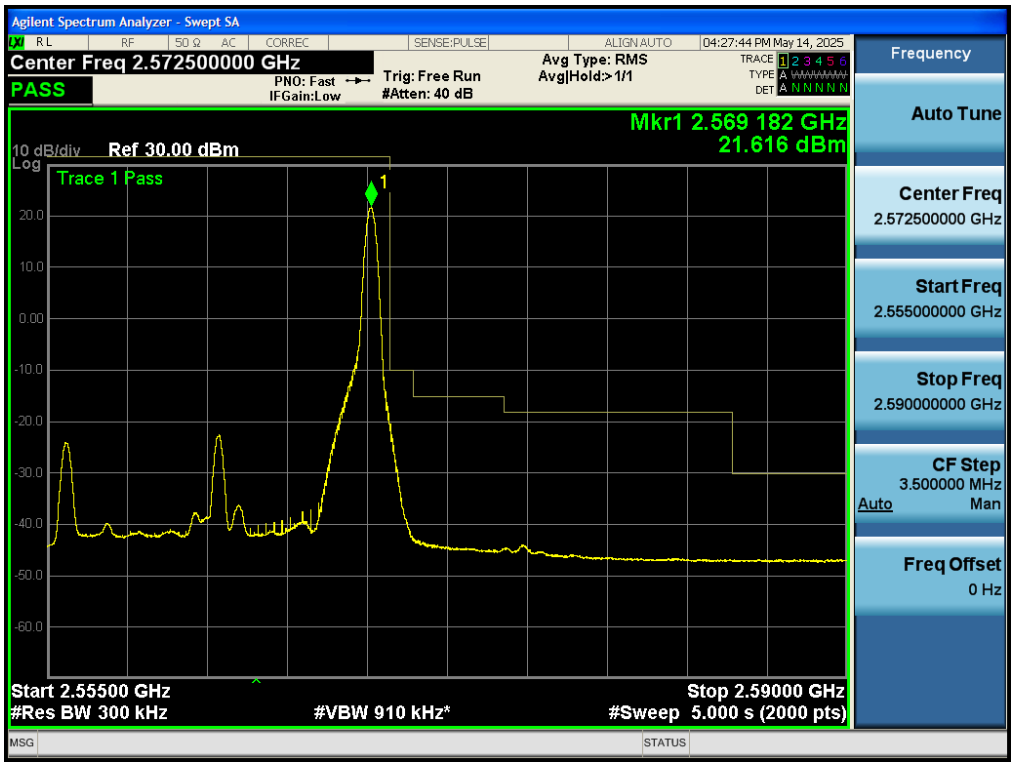
Test_Graph_band7_2507.5MHz_15M_16QAM_1RB#LOW_Band edge

Test_Graph_band7_2507.5MHz_15M_16QAM_75RB#LOW_Band edge



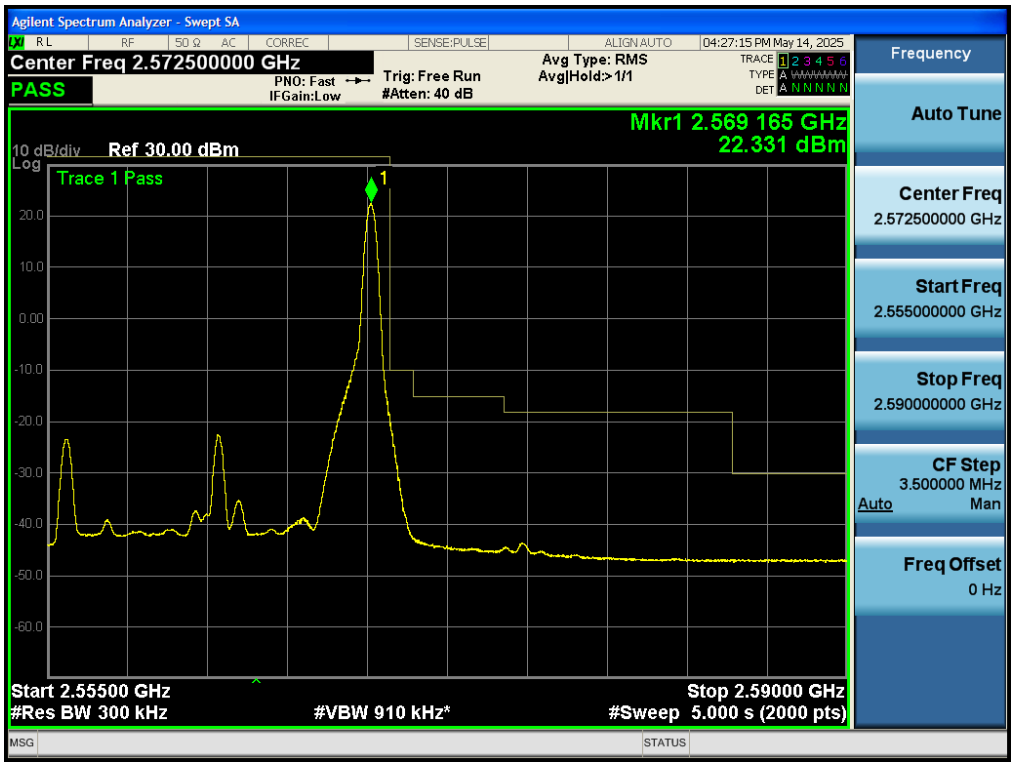
Test_Graph_band7_2507.5MHz_15M_QPSK_1RB#LOW_Band edge

Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band7_2562.5MHz_15M_16QAM_1RB#HIGH_Band edge

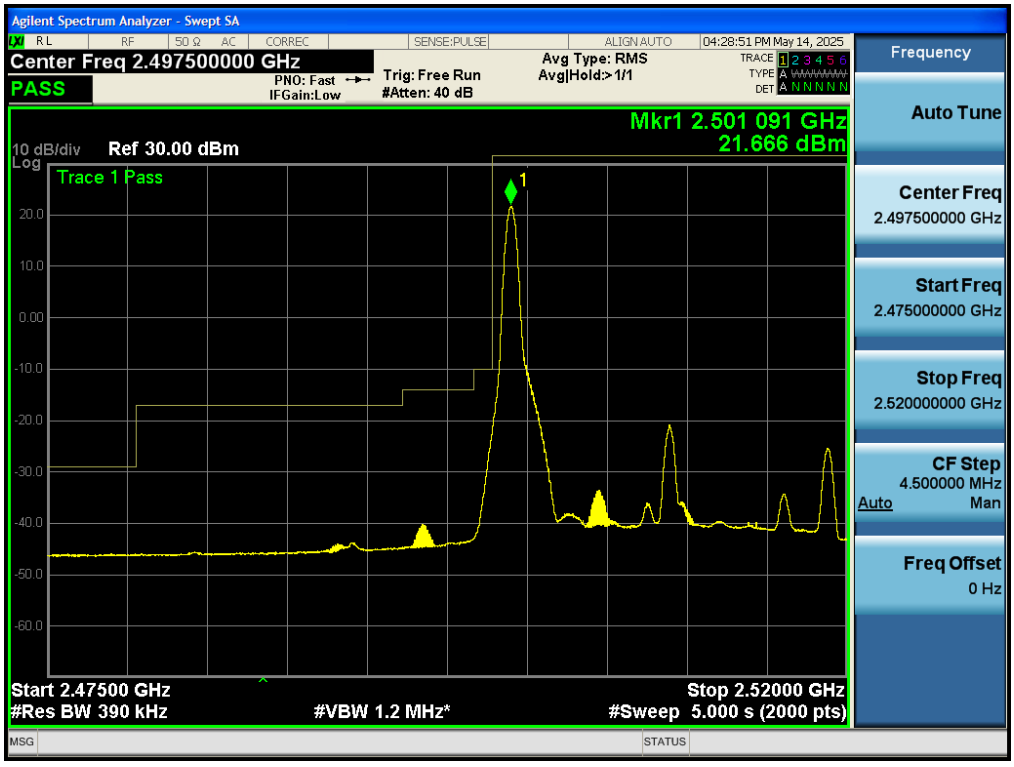
Test_Graph_band7_2562.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band7_2562.5MHz_15M_QPSK_1RB#HIGH_Band edge

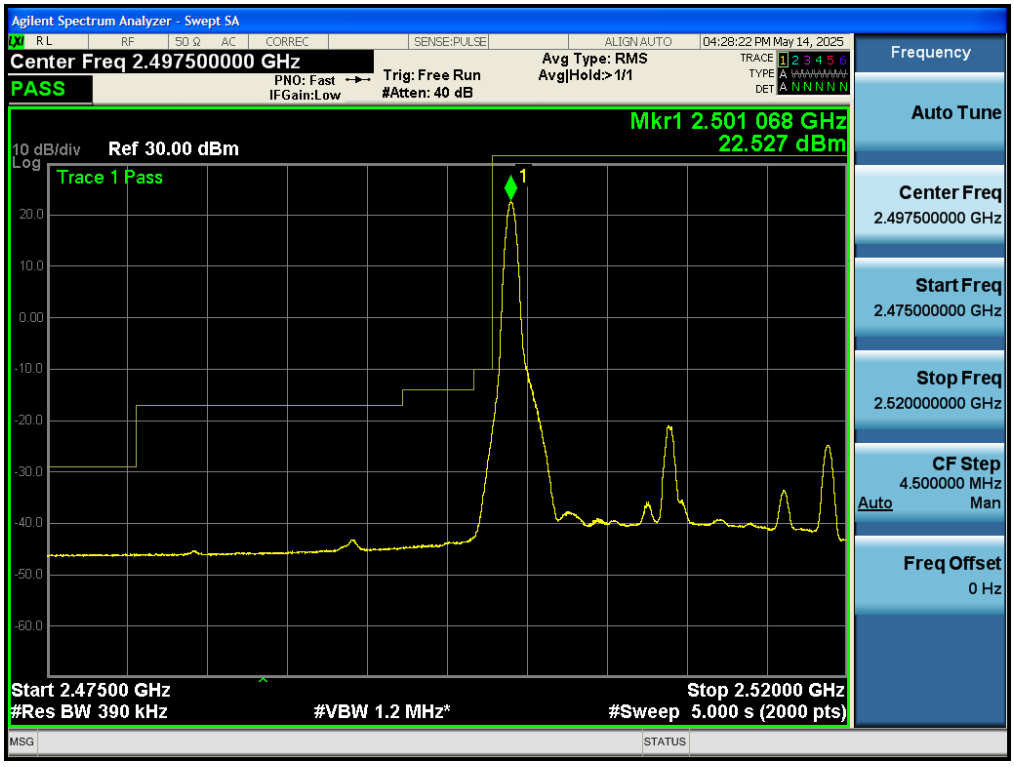
Test_Graph_band7_2562.5MHz_15M_QPSK_75RB#LOW_Band edge

Test_Graph_band7_2510MHz_20M_16QAM_100RB#LOW_Band edge



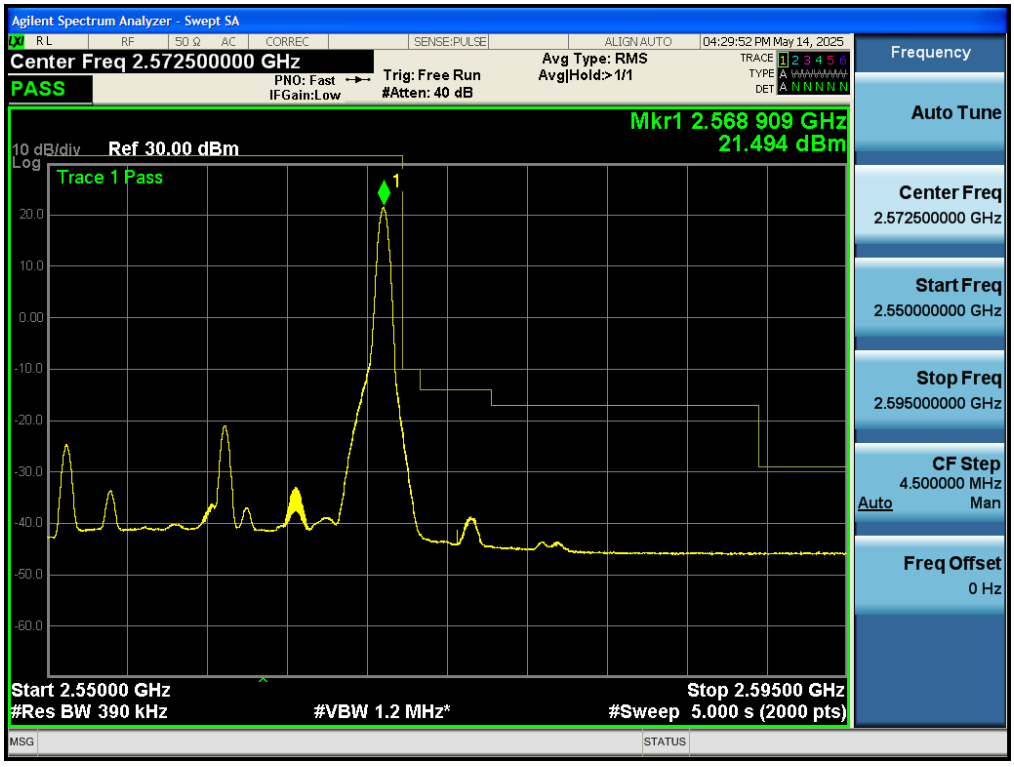
Test_Graph_band7_2510MHz_20M_16QAM_1RB#LOW_Band edge

Test_Graph_band7_2510MHz_20M_QPSK_100RB#LOW_Band edge



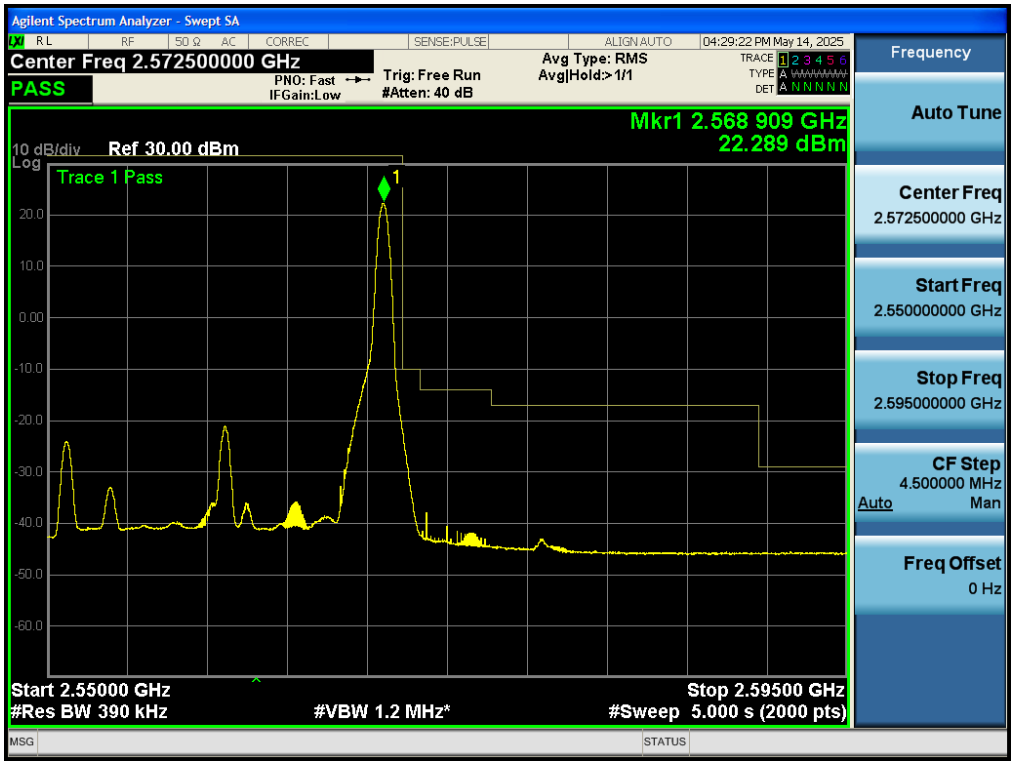
Test_Graph_band7_2510MHz_20M_QPSK_1RB#LOW_Band edge

Test_Graph_band7_2560MHz_20M_16QAM_100RB#LOW_Band edge



Test_Graph_band7_2560MHz_20M_16QAM_1RB#HIGH_Band edge

Test_Graph_band7_2560MHz_20M_QPSK_100RB#LOW_Band edge



Test_Graph_band7_2560MHz_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
7	5	2502.5	QPSK	25	LOW	Pass
7	5	2535	QPSK	25	LOW	Pass
7	5	2567.5	QPSK	25	LOW	Pass
7	10	2505	QPSK	50	LOW	Pass
7	10	2535	QPSK	50	LOW	Pass
7	10	2565	QPSK	50	LOW	Pass
7	15	2507.5	QPSK	75	LOW	Pass
7	15	2535	QPSK	75	LOW	Pass
7	15	2562.5	QPSK	75	LOW	Pass
7	20	2510	QPSK	100	LOW	Pass
7	20	2535	QPSK	100	LOW	Pass
7	20	2560	QPSK	100	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

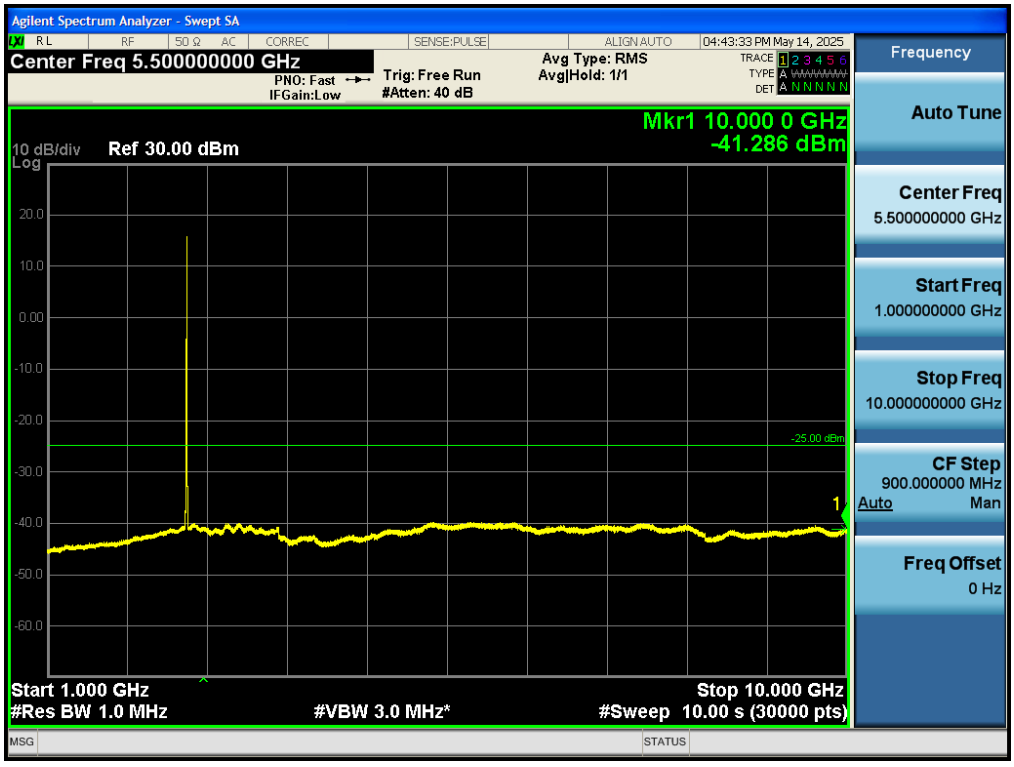
Test_Graph_band7_2502.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX

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

Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



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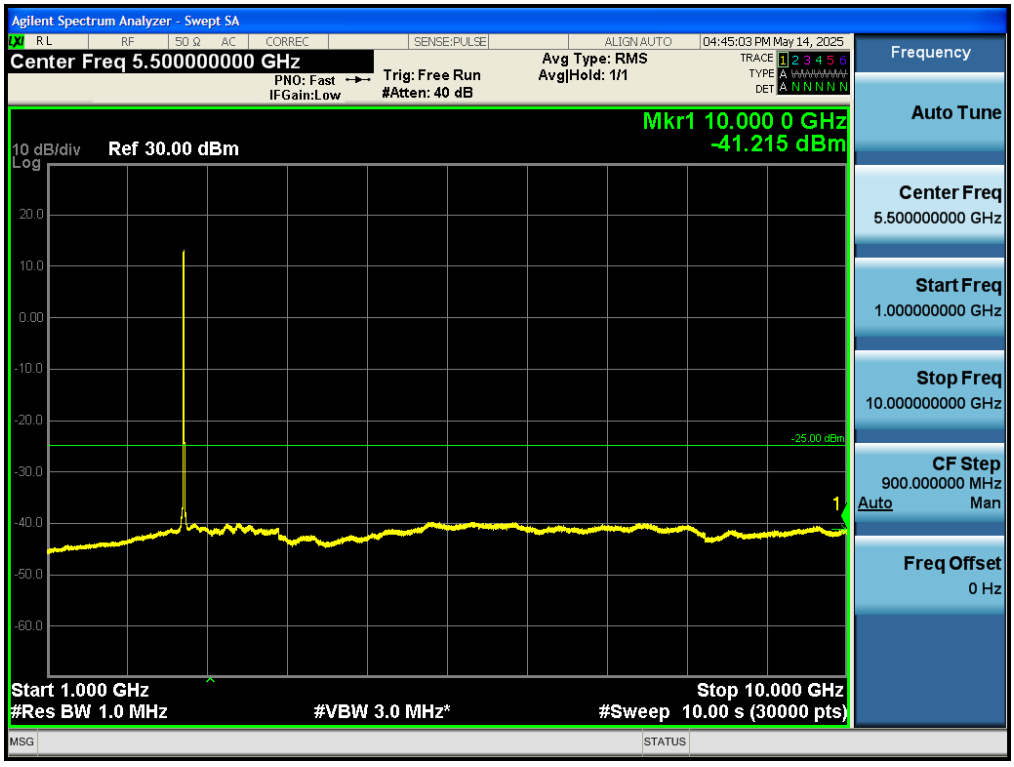
Test_Graph_band7_2567.5MHz_5M_QPSK_25RB#LOW_10G_26.0G_TX

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

Test_Graph_band7_2535MHz_10M_QPSK_50RB#LOW_30M_1G_TX



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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

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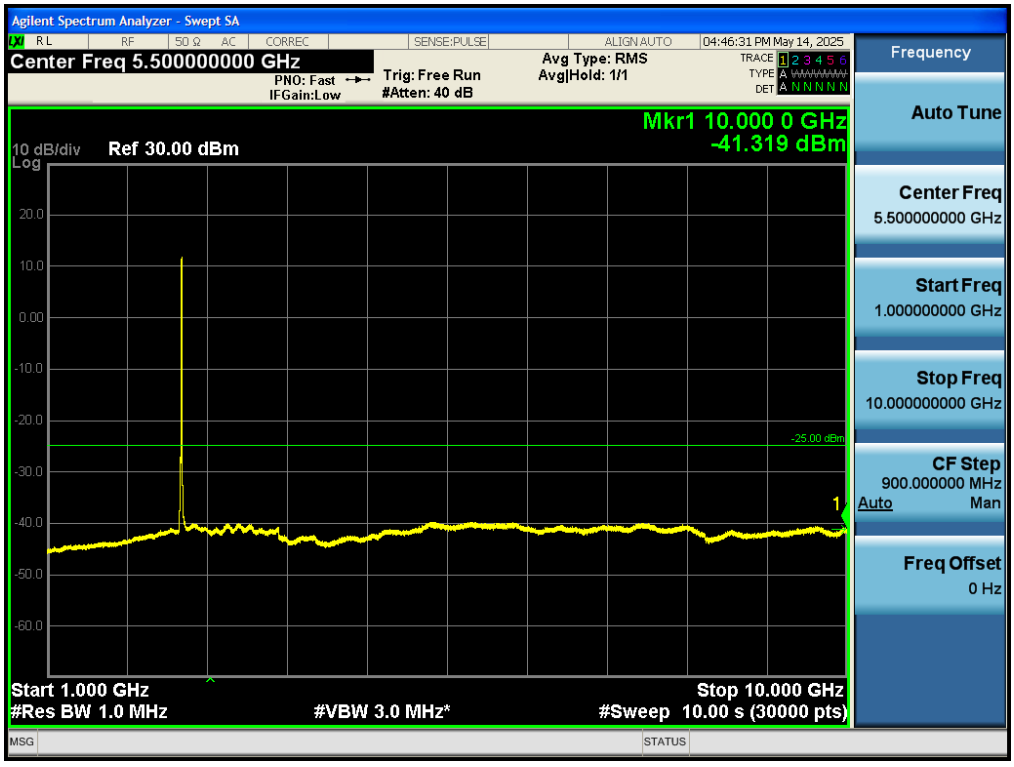

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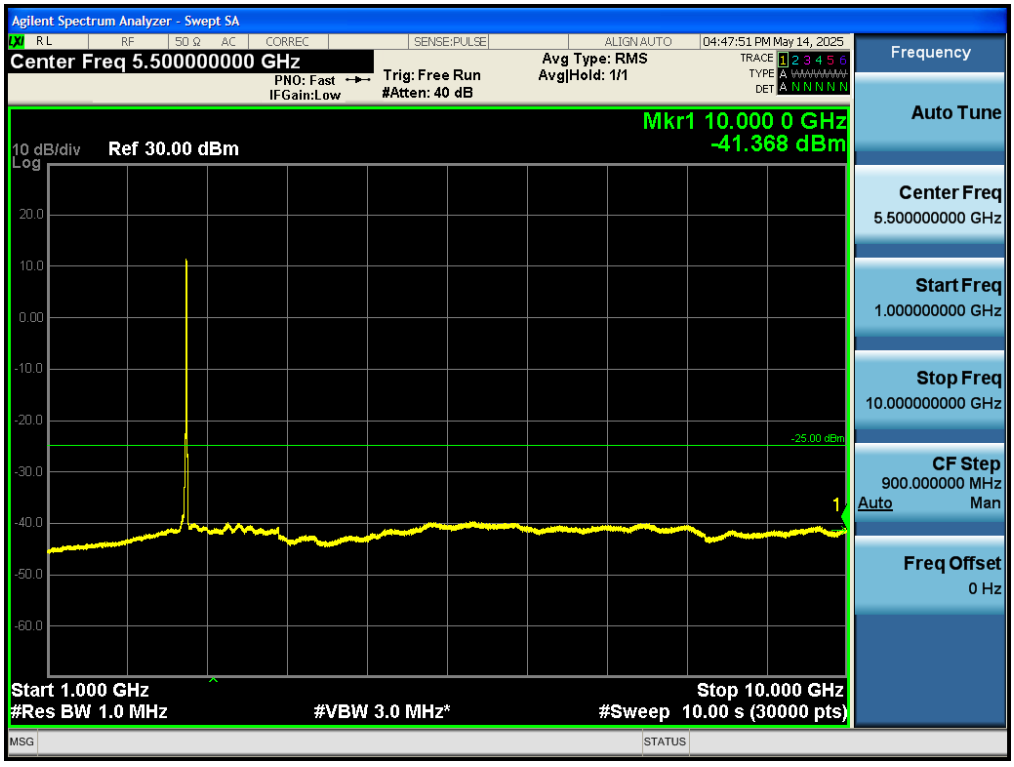
Test_Graph_band7_2507.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX

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

Test_Graph_band7_2562.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



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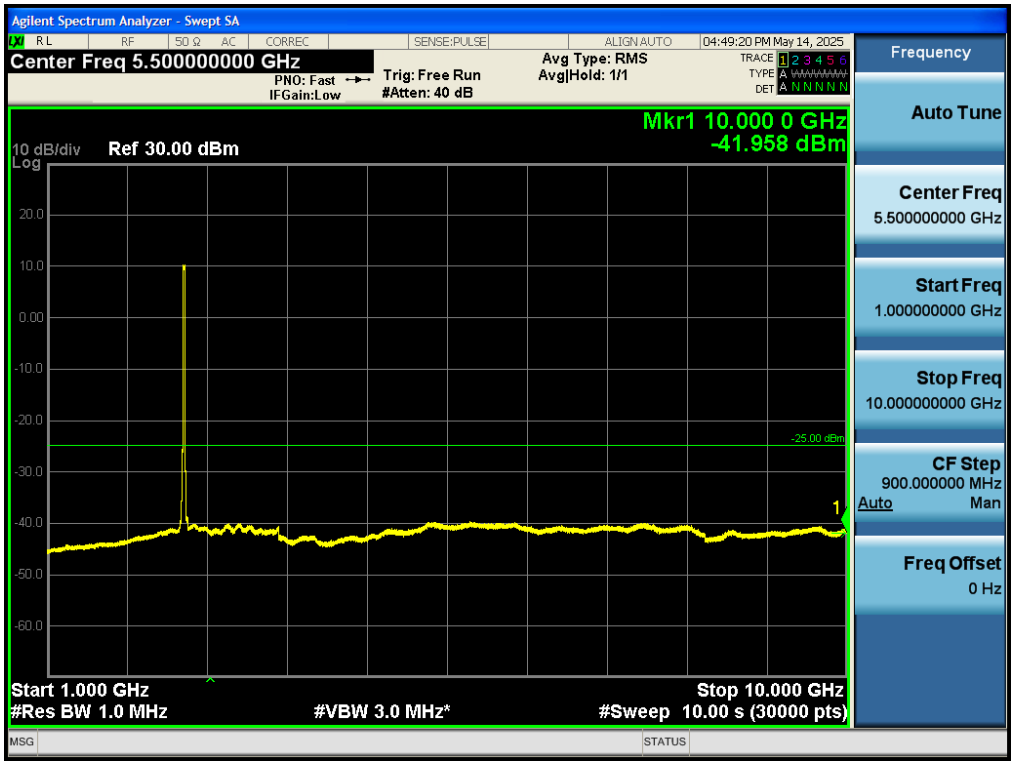
Test_Graph_band7_2562.5MHz_15M_QPSK_75RB#LOW_10G_26.0G_TX

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) /BW 20MHz)		Frequency Range		Frequency Error	Verdict
Temperature (°C)	Voltage (Volt)	>2500 Freq Reading @ Low End (MHz)	<2570 Freq Reading @ High End (MHz)	Middle Channel ≤2.5ppm	
50	Normal Voltage	2501.0568	2568.9292	0.0070	PASS
40	Normal Voltage	2501.0568	2568.9293	0.0068	
30	Normal Voltage	2501.0569	2568.9292	0.0061	
20(Ref.)	Normal Voltage	2501.0569	2568.9293	0.0061	
10	Normal Voltage	2501.0568	2568.9294	0.0065	
0	Normal Voltage	2501.0569	2568.9293	0.0063	
-10	Normal Voltage	2501.0568	2568.9294	0.0067	
-20	Normal Voltage	2501.0568	2568.9293	0.0061	
-30	Normal Voltage	2501.0569	2568.9293	0.0070	
20	+15%	2501.0569	2568.9294	0.0061	
20	-15%	2501.0570	2568.9293	0.0062	
20	Battery End Point	2501.0568	2568.9294	0.0064	