

Appendix Test Data for LTE band 2 (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
2	1.4	1850.7	QPSK	6	LOW	21.86	27.41	5.55	13	1.69	23.55	33	Pass
2	1.4	1850.7	QPSK	3	LOW	22.90	27.91	5.00	13	1.69	24.59	33	Pass
2	1.4	1850.7	QPSK	3	MID	22.91	27.93	5.01	13	1.69	24.60	33	Pass
2	1.4	1850.7	QPSK	3	HIGH	22.88	27.93	5.05	13	1.69	24.57	33	Pass
2	1.4	1850.7	QPSK	1	LOW	22.80	27.65	4.85	13	1.69	24.49	33	Pass
2	1.4	1850.7	QPSK	1	MID	22.98	27.79	4.81	13	1.69	24.67	33	Pass
2	1.4	1850.7	QPSK	1	HIGH	22.82	27.69	4.87	13	1.69	24.51	33	Pass
2	1.4	1850.7	16QAM	6	LOW	20.93	27.27	6.33	13	1.69	22.62	33	Pass
2	1.4	1850.7	16QAM	3	LOW	21.87	27.89	6.02	13	1.69	23.56	33	Pass
2	1.4	1850.7	16QAM	3	MID	21.81	27.85	6.03	13	1.69	23.50	33	Pass
2	1.4	1850.7	16QAM	3	HIGH	21.90	27.90	6.00	13	1.69	23.59	33	Pass
2	1.4	1850.7	16QAM	1	LOW	21.93	26.73	4.80	13	1.69	23.62	33	Pass
2	1.4	1850.7	16QAM	1	MID	22.21	26.95	4.74	13	1.69	23.90	33	Pass
2	1.4	1850.7	16QAM	1	HIGH	21.93	26.75	4.82	13	1.69	23.62	33	Pass
2	1.4	1880	QPSK	6	LOW	21.83	27.67	5.85	13	1.69	23.52	33	Pass
2	1.4	1880	QPSK	3	LOW	22.88	28.59	5.70	13	1.69	24.57	33	Pass
2	1.4	1880	QPSK	3	MID	22.87	28.57	5.70	13	1.69	24.56	33	Pass
2	1.4	1880	QPSK	3	HIGH	22.90	28.58	5.68	13	1.69	24.59	33	Pass
2	1.4	1880	QPSK	1	LOW	22.76	27.63	4.87	13	1.69	24.45	33	Pass
2	1.4	1880	QPSK	1	MID	22.98	27.79	4.81	13	1.69	24.67	33	Pass
2	1.4	1880	QPSK	1	HIGH	22.74	27.61	4.87	13	1.69	24.43	33	Pass
2	1.4	1880	16QAM	6	LOW	20.83	27.56	6.73	13	1.69	22.52	33	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
2	1.4	1880	16QAM	3	LOW	22.04	28.16	6.12	13	1.69	23.73	33	Pass
2	1.4	1880	16QAM	3	MID	21.89	28.04	6.15	13	1.69	23.58	33	Pass
2	1.4	1880	16QAM	3	HIGH	21.99	28.06	6.06	13	1.69	23.68	33	Pass
2	1.4	1880	16QAM	1	LOW	21.79	27.19	5.39	13	1.69	23.48	33	Pass
2	1.4	1880	16QAM	1	MID	22.01	27.34	5.33	13	1.69	23.70	33	Pass
2	1.4	1880	16QAM	1	HIGH	21.85	27.19	5.34	13	1.69	23.54	33	Pass
2	1.4	1909.3	QPSK	6	LOW	21.76	27.47	5.71	13	1.69	23.45	33	Pass
2	1.4	1909.3	QPSK	3	LOW	22.88	27.81	4.93	13	1.69	24.57	33	Pass
2	1.4	1909.3	QPSK	3	MID	22.87	27.77	4.91	13	1.69	24.56	33	Pass
2	1.4	1909.3	QPSK	3	HIGH	22.84	27.68	4.84	13	1.69	24.53	33	Pass
2	1.4	1909.3	QPSK	1	LOW	22.76	27.71	4.95	13	1.69	24.45	33	Pass
2	1.4	1909.3	QPSK	1	MID	22.95	27.73	4.78	13	1.69	24.64	33	Pass
2	1.4	1909.3	QPSK	1	HIGH	22.75	27.57	4.82	13	1.69	24.44	33	Pass
2	1.4	1909.3	16QAM	6	LOW	20.88	27.49	6.62	13	1.69	22.57	33	Pass
2	1.4	1909.3	16QAM	3	LOW	22.01	27.53	5.52	13	1.69	23.70	33	Pass
2	1.4	1909.3	16QAM	3	MID	22.01	27.52	5.51	13	1.69	23.70	33	Pass
2	1.4	1909.3	16QAM	3	HIGH	22.00	27.50	5.50	13	1.69	23.69	33	Pass
2	1.4	1909.3	16QAM	1	LOW	21.74	27.03	5.29	13	1.69	23.43	33	Pass
2	1.4	1909.3	16QAM	1	MID	21.94	27.13	5.19	13	1.69	23.63	33	Pass
2	1.4	1909.3	16QAM	1	HIGH	21.75	26.92	5.17	13	1.69	23.44	33	Pass
2	3	1851.5	QPSK	15	LOW	22.33	28.72	6.40	13	1.69	24.02	33	Pass
2	3	1851.5	QPSK	8	LOW	22.26	28.01	5.75	13	1.69	23.95	33	Pass
2	3	1851.5	QPSK	8	MID	22.31	28.03	5.72	13	1.69	24.00	33	Pass
2	3	1851.5	QPSK	8	HIGH	22.16	27.93	5.76	13	1.69	23.85	33	Pass
2	3	1851.5	QPSK	1	LOW	22.98	27.45	4.47	13	1.69	24.67	33	Pass
2	3	1851.5	QPSK	1	MID	22.86	27.41	4.55	13	1.69	24.55	33	Pass
2	3	1851.5	QPSK	1	HIGH	22.85	27.41	4.56	13	1.69	24.54	33	Pass
2	3	1851.5	16QAM	15	LOW	20.95	27.64	6.68	13	1.69	22.64	33	Pass
2	3	1851.5	16QAM	8	LOW	20.91	27.16	6.25	13	1.69	22.60	33	Pass
2	3	1851.5	16QAM	8	MID	20.96	27.22	6.26	13	1.69	22.65	33	Pass
2	3	1851.5	16QAM	8	HIGH	20.90	27.16	6.26	13	1.69	22.59	33	Pass
2	3	1851.5	16QAM	1	LOW	21.87	26.96	5.09	13	1.69	23.56	33	Pass
2	3	1851.5	16QAM	1	MID	21.83	26.97	5.14	13	1.69	23.52	33	Pass
2	3	1851.5	16QAM	1	HIGH	21.80	27.00	5.20	13	1.69	23.49	33	Pass
2	3	1880	QPSK	15	LOW	21.84	28.07	6.22	13	1.69	23.53	33	Pass
2	3	1880	QPSK	8	LOW	21.77	27.62	5.85	13	1.69	23.46	33	Pass
2	3	1880	QPSK	8	MID	21.77	27.63	5.86	13	1.69	23.46	33	Pass
2	3	1880	QPSK	8	HIGH	21.77	27.58	5.81	13	1.69	23.46	33	Pass
2	3	1880	QPSK	1	LOW	22.80	27.67	4.87	13	1.69	24.49	33	Pass
2	3	1880	QPSK	1	MID	22.78	27.68	4.90	13	1.69	24.47	33	Pass
2	3	1880	QPSK	1	HIGH	22.73	27.61	4.89	13	1.69	24.42	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
2	3	1880	16QAM	15	LOW	20.95	27.70	6.76	13	1.69	22.64	33	Pass
2	3	1880	16QAM	8	LOW	21.02	27.88	6.86	13	1.69	22.71	33	Pass
2	3	1880	16QAM	8	MID	21.03	27.89	6.87	13	1.69	22.72	33	Pass
2	3	1880	16QAM	8	HIGH	21.03	27.87	6.84	13	1.69	22.72	33	Pass
2	3	1880	16QAM	1	LOW	22.44	28.38	5.94	13	1.69	24.13	33	Pass
2	3	1880	16QAM	1	MID	22.38	28.39	6.01	13	1.69	24.07	33	Pass
2	3	1880	16QAM	1	HIGH	22.36	28.32	5.96	13	1.69	24.05	33	Pass
2	3	1908.5	QPSK	15	LOW	21.79	27.54	5.75	13	1.69	23.48	33	Pass
2	3	1908.5	QPSK	8	LOW	21.75	27.53	5.77	13	1.69	23.44	33	Pass
2	3	1908.5	QPSK	8	MID	21.77	27.51	5.74	13	1.69	23.46	33	Pass
2	3	1908.5	QPSK	8	HIGH	21.78	27.43	5.64	13	1.69	23.47	33	Pass
2	3	1908.5	QPSK	1	LOW	22.77	27.66	4.88	13	1.69	24.46	33	Pass
2	3	1908.5	QPSK	1	MID	22.79	27.40	4.61	13	1.69	24.48	33	Pass
2	3	1908.5	QPSK	1	HIGH	22.74	27.27	4.53	13	1.69	24.43	33	Pass
2	3	1908.5	16QAM	15	LOW	20.79	27.61	6.82	13	1.69	22.48	33	Pass
2	3	1908.5	16QAM	8	LOW	20.80	27.11	6.31	13	1.69	22.49	33	Pass
2	3	1908.5	16QAM	8	MID	20.81	27.11	6.30	13	1.69	22.50	33	Pass
2	3	1908.5	16QAM	8	HIGH	20.79	26.95	6.17	13	1.69	22.48	33	Pass
2	3	1908.5	16QAM	1	LOW	21.88	26.72	4.84	13	1.69	23.57	33	Pass
2	3	1908.5	16QAM	1	MID	21.91	26.56	4.65	13	1.69	23.60	33	Pass
2	3	1908.5	16QAM	1	HIGH	21.88	26.43	4.55	13	1.69	23.57	33	Pass
2	5	1852.5	QPSK	25	LOW	22.27	28.39	6.12	13	1.69	23.96	33	Pass
2	5	1852.5	QPSK	12	LOW	22.26	27.93	5.67	13	1.69	23.95	33	Pass
2	5	1852.5	QPSK	12	MID	22.23	27.90	5.67	13	1.69	23.92	33	Pass
2	5	1852.5	QPSK	12	HIGH	22.28	27.99	5.71	13	1.69	23.97	33	Pass
2	5	1852.5	QPSK	1	LOW	22.74	27.59	4.85	13	1.69	24.43	33	Pass
2	5	1852.5	QPSK	1	MID	22.93	27.71	4.78	13	1.69	24.62	33	Pass
2	5	1852.5	QPSK	1	HIGH	22.72	27.68	4.97	13	1.69	24.41	33	Pass
2	5	1852.5	16QAM	25	LOW	20.98	28.25	7.27	13	1.69	22.67	33	Pass
2	5	1852.5	16QAM	12	LOW	20.77	27.55	6.78	13	1.69	22.46	33	Pass
2	5	1852.5	16QAM	12	MID	20.80	27.57	6.76	13	1.69	22.49	33	Pass
2	5	1852.5	16QAM	12	HIGH	20.80	27.62	6.82	13	1.69	22.49	33	Pass
2	5	1852.5	16QAM	1	LOW	21.77	27.49	5.72	13	1.69	23.46	33	Pass
2	5	1852.5	16QAM	1	MID	21.93	27.59	5.66	13	1.69	23.62	33	Pass
2	5	1852.5	16QAM	1	HIGH	21.79	27.62	5.83	13	1.69	23.48	33	Pass
2	5	1880	QPSK	25	LOW	21.81	27.96	6.15	13	1.69	23.50	33	Pass
2	5	1880	QPSK	12	LOW	21.77	27.62	5.85	13	1.69	23.46	33	Pass
2	5	1880	QPSK	12	MID	21.73	27.59	5.86	13	1.69	23.42	33	Pass
2	5	1880	QPSK	12	HIGH	21.81	27.63	5.82	13	1.69	23.50	33	Pass
2	5	1880	QPSK	1	LOW	22.69	28.57	5.88	13	1.69	24.38	33	Pass
2	5	1880	QPSK	1	MID	22.89	28.62	5.73	13	1.69	24.58	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
2	5	1880	QPSK	1	HIGH	22.71	28.45	5.74	13	1.69	24.40	33	Pass
2	5	1880	16QAM	25	LOW	20.89	28.11	7.22	13	1.69	22.58	33	Pass
2	5	1880	16QAM	12	LOW	20.80	28.28	7.47	13	1.69	22.49	33	Pass
2	5	1880	16QAM	12	MID	20.82	28.33	7.51	13	1.69	22.51	33	Pass
2	5	1880	16QAM	12	HIGH	20.85	28.30	7.44	13	1.69	22.54	33	Pass
2	5	1880	16QAM	1	LOW	21.67	27.27	5.60	13	1.69	23.36	33	Pass
2	5	1880	16QAM	1	MID	21.78	27.33	5.55	13	1.69	23.47	33	Pass
2	5	1880	16QAM	1	HIGH	21.64	27.17	5.54	13	1.69	23.33	33	Pass
2	5	1907.5	QPSK	25	LOW	21.76	27.83	6.07	13	1.69	23.45	33	Pass
2	5	1907.5	QPSK	12	LOW	21.69	27.83	6.15	13	1.69	23.38	33	Pass
2	5	1907.5	QPSK	12	MID	21.72	27.84	6.12	13	1.69	23.41	33	Pass
2	5	1907.5	QPSK	12	HIGH	21.74	27.60	5.86	13	1.69	23.43	33	Pass
2	5	1907.5	QPSK	1	LOW	22.68	27.85	5.18	13	1.69	24.37	33	Pass
2	5	1907.5	QPSK	1	MID	22.84	27.66	4.82	13	1.69	24.53	33	Pass
2	5	1907.5	QPSK	1	HIGH	22.68	27.26	4.58	13	1.69	24.37	33	Pass
2	5	1907.5	16QAM	25	LOW	20.77	28.14	7.37	13	1.69	22.46	33	Pass
2	5	1907.5	16QAM	12	LOW	20.79	27.52	6.73	13	1.69	22.48	33	Pass
2	5	1907.5	16QAM	12	MID	20.75	27.48	6.73	13	1.69	22.44	33	Pass
2	5	1907.5	16QAM	12	HIGH	20.81	27.26	6.45	13	1.69	22.50	33	Pass
2	5	1907.5	16QAM	1	LOW	22.00	27.63	5.63	13	1.69	23.69	33	Pass
2	5	1907.5	16QAM	1	MID	22.13	27.45	5.32	13	1.69	23.82	33	Pass
2	5	1907.5	16QAM	1	HIGH	21.94	27.07	5.12	13	1.69	23.63	33	Pass
2	10	1855	QPSK	50	LOW	22.27	27.95	5.68	13	1.69	23.96	33	Pass
2	10	1855	QPSK	25	LOW	22.27	28.34	6.07	13	1.69	23.96	33	Pass
2	10	1855	QPSK	25	MID	22.25	28.31	6.05	13	1.69	23.94	33	Pass
2	10	1855	QPSK	25	HIGH	22.19	28.38	6.20	13	1.69	23.88	33	Pass
2	10	1855	QPSK	1	LOW	22.89	27.45	4.56	13	1.69	24.58	33	Pass
2	10	1855	QPSK	1	MID	23.00	27.61	4.61	13	1.69	24.69	33	Pass
2	10	1855	QPSK	1	HIGH	22.75	27.64	4.89	13	1.69	24.44	33	Pass
2	10	1855	16QAM	50	LOW	21.01	28.16	7.15	13	1.69	22.70	33	Pass
2	10	1855	16QAM	25	LOW	21.05	27.98	6.93	13	1.69	22.74	33	Pass
2	10	1855	16QAM	25	MID	20.97	27.93	6.96	13	1.69	22.66	33	Pass
2	10	1855	16QAM	25	HIGH	20.91	28.02	7.11	13	1.69	22.60	33	Pass
2	10	1855	16QAM	1	LOW	21.81	27.01	5.20	13	1.69	23.50	33	Pass
2	10	1855	16QAM	1	MID	22.06	27.24	5.19	13	1.69	23.75	33	Pass
2	10	1855	16QAM	1	HIGH	21.71	27.14	5.43	13	1.69	23.40	33	Pass
2	10	1880	QPSK	50	LOW	21.80	27.98	6.18	13	1.69	23.49	33	Pass
2	10	1880	QPSK	25	LOW	21.73	28.26	6.53	13	1.69	23.42	33	Pass
2	10	1880	QPSK	25	MID	21.76	28.30	6.54	13	1.69	23.45	33	Pass
2	10	1880	QPSK	25	HIGH	21.80	28.21	6.41	13	1.69	23.49	33	Pass
2	10	1880	QPSK	1	LOW	22.77	27.81	5.04	13	1.69	24.46	33	Pass

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2	10	1880	QPSK	1	MID	22.89	27.79	4.91	13	1.69	24.58	33	Pass
2	10	1880	QPSK	1	HIGH	22.72	27.60	4.89	13	1.69	24.41	33	Pass
2	10	1880	16QAM	50	LOW	20.85	28.61	7.76	13	1.69	22.54	33	Pass
2	10	1880	16QAM	25	LOW	20.86	28.28	7.43	13	1.69	22.55	33	Pass
2	10	1880	16QAM	25	MID	20.83	28.25	7.42	13	1.69	22.52	33	Pass
2	10	1880	16QAM	25	HIGH	20.91	28.18	7.27	13	1.69	22.60	33	Pass
2	10	1880	16QAM	1	LOW	22.35	28.56	6.21	13	1.69	24.04	33	Pass
2	10	1880	16QAM	1	MID	22.47	28.51	6.03	13	1.69	24.16	33	Pass
2	10	1880	16QAM	1	HIGH	22.33	28.32	5.99	13	1.69	24.02	33	Pass
2	10	1905	QPSK	50	LOW	21.78	28.07	6.29	13	1.69	23.47	33	Pass
2	10	1905	QPSK	25	LOW	21.79	28.15	6.37	13	1.69	23.48	33	Pass
2	10	1905	QPSK	25	MID	21.78	28.15	6.36	13	1.69	23.47	33	Pass
2	10	1905	QPSK	25	HIGH	21.79	27.60	5.81	13	1.69	23.48	33	Pass
2	10	1905	QPSK	1	LOW	22.74	28.12	5.38	13	1.69	24.43	33	Pass
2	10	1905	QPSK	1	MID	22.91	28.03	5.13	13	1.69	24.60	33	Pass
2	10	1905	QPSK	1	HIGH	22.75	27.34	4.58	13	1.69	24.44	33	Pass
2	10	1905	16QAM	50	LOW	20.85	27.59	6.74	13	1.69	22.54	33	Pass
2	10	1905	16QAM	25	LOW	20.89	28.34	7.46	13	1.69	22.58	33	Pass
2	10	1905	16QAM	25	MID	20.92	28.42	7.51	13	1.69	22.61	33	Pass
2	10	1905	16QAM	25	HIGH	20.87	27.92	7.05	13	1.69	22.56	33	Pass
2	10	1905	16QAM	1	LOW	21.88	26.97	5.08	13	1.69	23.57	33	Pass
2	10	1905	16QAM	1	MID	22.05	26.97	4.92	13	1.69	23.74	33	Pass
2	10	1905	16QAM	1	HIGH	21.82	26.46	4.64	13	1.69	23.51	33	Pass
2	15	1857.5	QPSK	75	LOW	22.27	28.67	6.41	13	1.69	23.96	33	Pass
2	15	1857.5	QPSK	38	LOW	22.24	28.70	6.45	13	1.69	23.93	33	Pass
2	15	1857.5	QPSK	38	MID	22.28	28.68	6.40	13	1.69	23.97	33	Pass
2	15	1857.5	QPSK	38	HIGH	22.20	28.65	6.45	13	1.69	23.89	33	Pass
2	15	1857.5	QPSK	1	LOW	22.81	27.17	4.36	13	1.69	24.50	33	Pass
2	15	1857.5	QPSK	1	MID	22.78	27.32	4.53	13	1.69	24.47	33	Pass
2	15	1857.5	QPSK	1	HIGH	22.65	27.41	4.76	13	1.69	24.34	33	Pass
2	15	1857.5	16QAM	75	LOW	20.84	28.08	7.24	13	1.69	22.53	33	Pass
2	15	1857.5	16QAM	38	LOW	20.77	27.99	7.22	13	1.69	22.46	33	Pass
2	15	1857.5	16QAM	38	MID	20.78	28.05	7.27	13	1.69	22.47	33	Pass
2	15	1857.5	16QAM	38	HIGH	20.93	28.19	7.27	13	1.69	22.62	33	Pass
2	15	1857.5	16QAM	1	LOW	22.11	27.03	4.92	13	1.69	23.80	33	Pass
2	15	1857.5	16QAM	1	MID	22.21	27.25	5.04	13	1.69	23.90	33	Pass
2	15	1857.5	16QAM	1	HIGH	22.11	27.37	5.25	13	1.69	23.80	33	Pass
2	15	1880	QPSK	75	LOW	21.79	28.70	6.91	13	1.69	23.48	33	Pass
2	15	1880	QPSK	38	LOW	21.81	28.68	6.88	13	1.69	23.50	33	Pass
2	15	1880	QPSK	38	MID	21.77	28.69	6.92	13	1.69	23.46	33	Pass
2	15	1880	QPSK	38	HIGH	21.76	28.47	6.71	13	1.69	23.45	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
2	15	1880	QPSK	1	LOW	22.63	27.72	5.10	13	1.69	24.32	33	Pass
2	15	1880	QPSK	1	MID	22.78	27.74	4.96	13	1.69	24.47	33	Pass
2	15	1880	QPSK	1	HIGH	22.67	27.54	4.87	13	1.69	24.36	33	Pass
2	15	1880	16QAM	75	LOW	20.80	28.25	7.44	13	1.69	22.49	33	Pass
2	15	1880	16QAM	38	LOW	20.81	28.22	7.41	13	1.69	22.50	33	Pass
2	15	1880	16QAM	38	MID	20.83	28.09	7.26	13	1.69	22.52	33	Pass
2	15	1880	16QAM	38	HIGH	20.83	28.19	7.35	13	1.69	22.52	33	Pass
2	15	1880	16QAM	1	LOW	22.31	28.56	6.26	13	1.69	24.00	33	Pass
2	15	1880	16QAM	1	MID	22.42	28.50	6.09	13	1.69	24.11	33	Pass
2	15	1880	16QAM	1	HIGH	22.14	28.14	6.00	13	1.69	23.83	33	Pass
2	15	1902.5	QPSK	75	LOW	21.78	28.49	6.71	13	1.69	23.47	33	Pass
2	15	1902.5	QPSK	38	LOW	21.84	28.56	6.72	13	1.69	23.53	33	Pass
2	15	1902.5	QPSK	38	MID	21.82	28.55	6.74	13	1.69	23.51	33	Pass
2	15	1902.5	QPSK	38	HIGH	21.87	28.65	6.78	13	1.69	23.56	33	Pass
2	15	1902.5	QPSK	1	LOW	22.68	28.04	5.35	13	1.69	24.37	33	Pass
2	15	1902.5	QPSK	1	MID	22.78	28.10	5.31	13	1.69	24.47	33	Pass
2	15	1902.5	QPSK	1	HIGH	22.64	27.32	4.68	13	1.69	24.33	33	Pass
2	15	1902.5	16QAM	75	LOW	20.97	28.37	7.40	13	1.69	22.66	33	Pass
2	15	1902.5	16QAM	38	LOW	20.84	28.20	7.36	13	1.69	22.53	33	Pass
2	15	1902.5	16QAM	38	MID	20.89	28.30	7.40	13	1.69	22.58	33	Pass
2	15	1902.5	16QAM	38	HIGH	20.87	28.27	7.40	13	1.69	22.56	33	Pass
2	15	1902.5	16QAM	1	LOW	21.78	26.84	5.06	13	1.69	23.47	33	Pass
2	15	1902.5	16QAM	1	MID	21.92	26.95	5.03	13	1.69	23.61	33	Pass
2	15	1902.5	16QAM	1	HIGH	21.75	26.43	4.68	13	1.69	23.44	33	Pass
2	20	1860	QPSK	100	LOW	22.25	28.91	6.65	13	1.69	23.94	33	Pass
2	20	1860	QPSK	50	LOW	22.35	28.45	6.10	13	1.69	24.04	33	Pass
2	20	1860	QPSK	50	MID	22.31	28.39	6.08	13	1.69	24.00	33	Pass
2	20	1860	QPSK	50	HIGH	21.67	28.30	6.63	13	1.69	23.36	33	Pass
2	20	1860	QPSK	1	LOW	22.43	27.38	4.94	13	1.69	24.12	33	Pass
2	20	1860	QPSK	1	MID	22.83	27.96	5.13	13	1.69	24.52	33	Pass
2	20	1860	QPSK	1	HIGH	22.46	27.92	5.47	13	1.69	24.15	33	Pass
2	20	1860	16QAM	100	LOW	20.80	28.15	7.35	13	1.69	22.49	33	Pass
2	20	1860	16QAM	50	LOW	20.91	28.05	7.13	13	1.69	22.60	33	Pass
2	20	1860	16QAM	50	MID	20.90	28.04	7.13	13	1.69	22.59	33	Pass
2	20	1860	16QAM	50	HIGH	20.76	28.36	7.60	13	1.69	22.45	33	Pass
2	20	1860	16QAM	1	LOW	22.03	27.30	5.26	13	1.69	23.72	33	Pass
2	20	1860	16QAM	1	MID	22.52	27.93	5.41	13	1.69	24.21	33	Pass
2	20	1860	16QAM	1	HIGH	22.09	27.85	5.75	13	1.69	23.78	33	Pass
2	20	1880	QPSK	100	LOW	21.77	28.29	6.52	13	1.69	23.46	33	Pass
2	20	1880	QPSK	50	LOW	21.75	28.32	6.57	13	1.69	23.44	33	Pass
2	20	1880	QPSK	50	MID	21.76	28.36	6.60	13	1.69	23.45	33	Pass

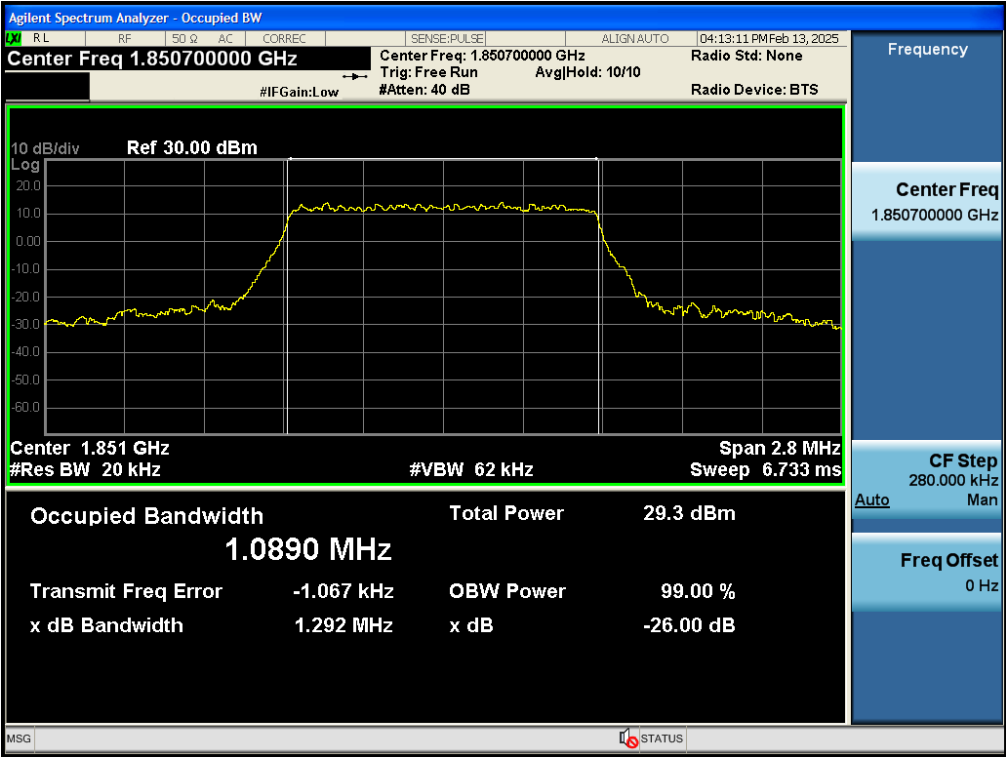
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
2	20	1880	QPSK	50	HIGH	21.76	28.19	6.43	13	1.69	23.45	33	Pass
2	20	1880	QPSK	1	LOW	22.56	28.12	5.56	13	1.69	24.25	33	Pass
2	20	1880	QPSK	1	MID	22.94	28.22	5.28	13	1.69	24.63	33	Pass
2	20	1880	QPSK	1	HIGH	22.48	27.78	5.30	13	1.69	24.17	33	Pass
2	20	1880	16QAM	100	LOW	20.84	28.27	7.43	13	1.69	22.53	33	Pass
2	20	1880	16QAM	50	LOW	20.81	28.69	7.88	13	1.69	22.50	33	Pass
2	20	1880	16QAM	50	MID	20.78	28.65	7.87	13	1.69	22.47	33	Pass
2	20	1880	16QAM	50	HIGH	20.82	28.40	7.58	13	1.69	22.51	33	Pass
2	20	1880	16QAM	1	LOW	21.88	27.84	5.96	13	1.69	23.57	33	Pass
2	20	1880	16QAM	1	MID	22.29	27.99	5.70	13	1.69	23.98	33	Pass
2	20	1880	16QAM	1	HIGH	21.76	27.49	5.73	13	1.69	23.45	33	Pass
2	20	1900	QPSK	100	LOW	21.86	28.54	6.68	13	1.69	23.55	33	Pass
2	20	1900	QPSK	50	LOW	21.88	28.34	6.46	13	1.69	23.57	33	Pass
2	20	1900	QPSK	50	MID	21.86	28.27	6.41	13	1.69	23.55	33	Pass
2	20	1900	QPSK	50	HIGH	21.83	28.29	6.45	13	1.69	23.52	33	Pass
2	20	1900	QPSK	1	LOW	22.48	27.52	5.03	13	1.69	24.17	33	Pass
2	20	1900	QPSK	1	MID	22.93	27.96	5.03	13	1.69	24.62	33	Pass
2	20	1900	QPSK	1	HIGH	22.46	27.04	4.58	13	1.69	24.15	33	Pass
2	20	1900	16QAM	100	LOW	20.94	28.48	7.54	13	1.69	22.63	33	Pass
2	20	1900	16QAM	50	LOW	20.96	28.11	7.15	13	1.69	22.65	33	Pass
2	20	1900	16QAM	50	MID	20.94	28.07	7.13	13	1.69	22.63	33	Pass
2	20	1900	16QAM	50	HIGH	20.90	28.06	7.15	13	1.69	22.59	33	Pass
2	20	1900	16QAM	1	LOW	21.72	27.81	6.10	13	1.69	23.41	33	Pass
2	20	1900	16QAM	1	MID	22.15	28.25	6.10	13	1.69	23.84	33	Pass
2	20	1900	16QAM	1	HIGH	21.65	27.27	5.62	13	1.69	23.34	33	Pass

Appendix B: Occupied bandwidth

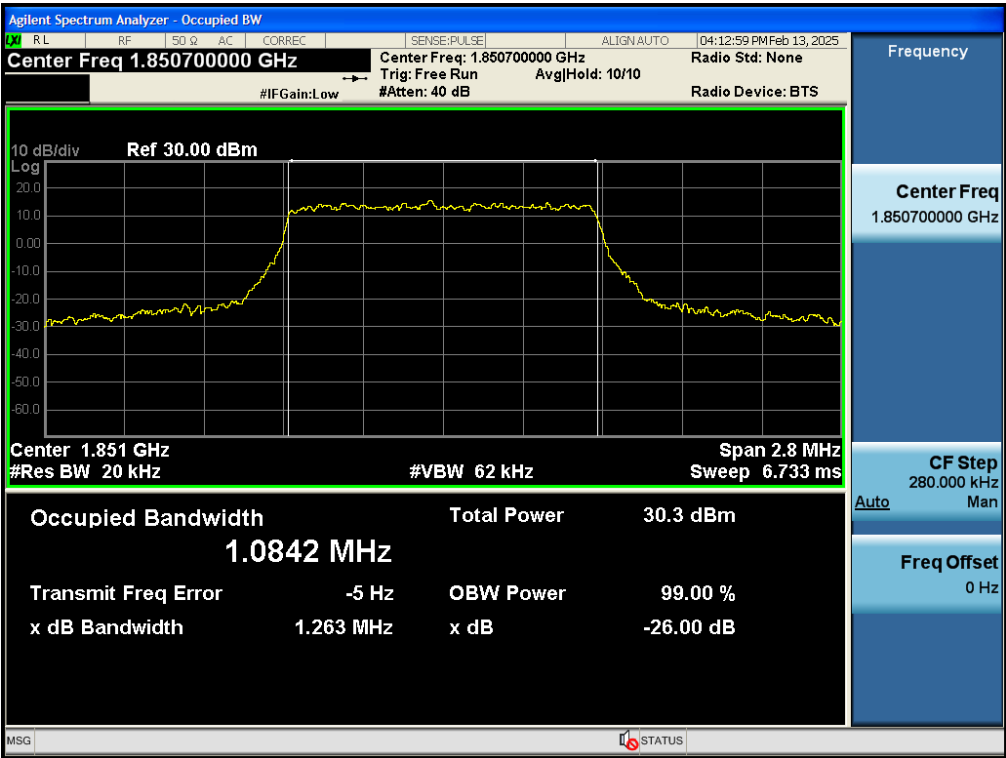
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
2	1.4	1850.7	QPSK	6	LOW	1.084	1.263	No limit
2	1.4	1850.7	16QAM	6	LOW	1.089	1.292	No limit
2	1.4	1880	QPSK	6	LOW	1.086	1.287	No limit
2	1.4	1880	16QAM	6	LOW	1.081	1.253	No limit
2	1.4	1909.3	QPSK	6	LOW	1.093	1.269	No limit
2	1.4	1909.3	16QAM	6	LOW	1.087	1.261	No limit
2	3	1851.5	QPSK	15	LOW	2.678	2.866	No limit
2	3	1851.5	16QAM	15	LOW	2.677	2.875	No limit
2	3	1880	QPSK	15	LOW	2.682	2.869	No limit
2	3	1880	16QAM	15	LOW	2.679	2.86	No limit
2	3	1908.5	QPSK	15	LOW	2.678	2.871	No limit
2	3	1908.5	16QAM	15	LOW	2.676	2.858	No limit
2	5	1852.5	QPSK	25	LOW	4.464	4.81	No limit
2	5	1852.5	16QAM	25	LOW	4.47	4.853	No limit
2	5	1880	QPSK	25	LOW	4.488	4.852	No limit
2	5	1880	16QAM	25	LOW	4.472	4.799	No limit
2	5	1907.5	QPSK	25	LOW	4.484	4.941	No limit
2	5	1907.5	16QAM	25	LOW	4.483	5.06	No limit
2	10	1855	QPSK	50	LOW	8.946	9.685	No limit
2	10	1855	16QAM	50	LOW	8.935	9.556	No limit
2	10	1880	QPSK	50	LOW	8.953	9.573	No limit
2	10	1880	16QAM	50	LOW	8.96	9.597	No limit
2	10	1905	QPSK	50	LOW	8.962	9.585	No limit
2	10	1905	16QAM	50	LOW	8.952	9.582	No limit
2	15	1857.5	QPSK	75	LOW	13.388	14.319	No limit
2	15	1857.5	16QAM	75	LOW	13.397	14.299	No limit
2	15	1880	QPSK	75	LOW	13.436	14.961	No limit
2	15	1880	16QAM	75	LOW	13.428	14.748	No limit
2	15	1902.5	QPSK	75	LOW	13.428	14.453	No limit
2	15	1902.5	16QAM	75	LOW	13.449	14.738	No limit
2	20	1860	QPSK	100	LOW	17.877	18.876	No limit
2	20	1860	16QAM	100	LOW	17.877	18.932	No limit
2	20	1880	QPSK	100	LOW	17.871	19.02	No limit
2	20	1880	16QAM	100	LOW	17.916	19.823	No limit
2	20	1900	QPSK	100	LOW	17.937	19.243	No limit
2	20	1900	16QAM	100	LOW	17.953	19.135	No limit

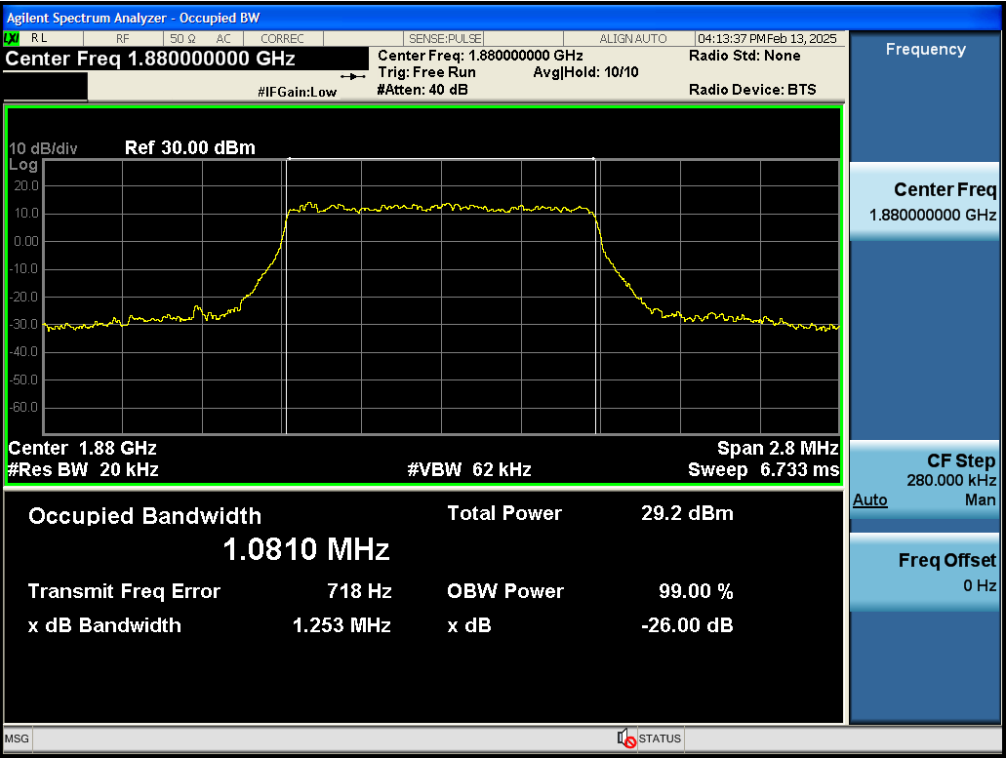
Test Graphs



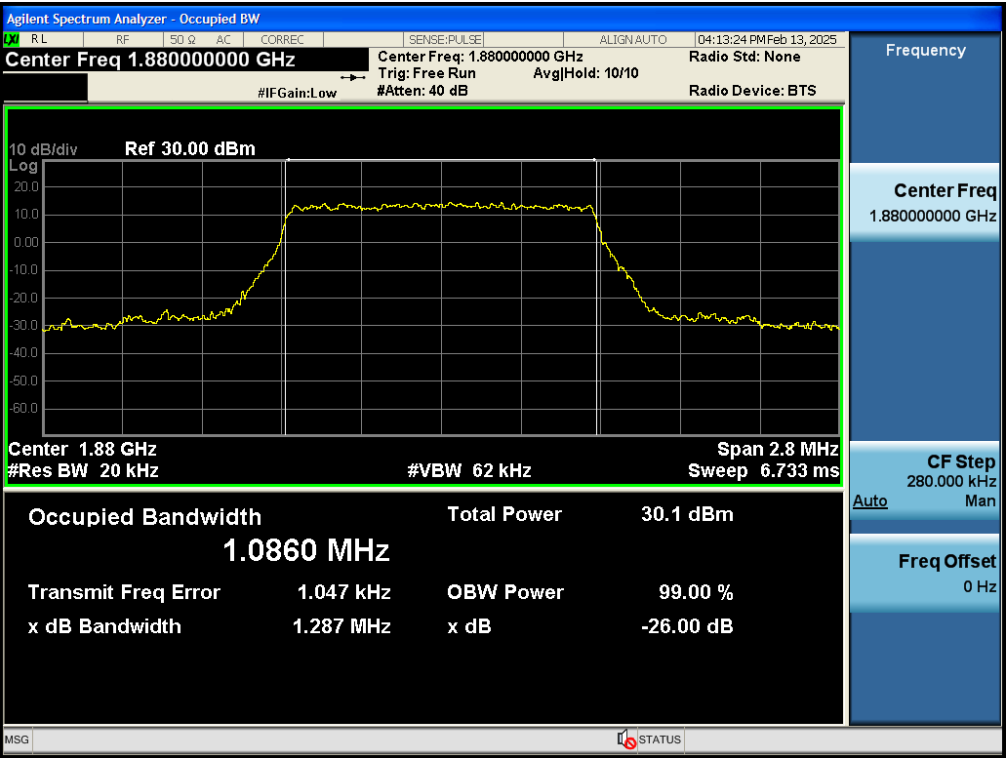
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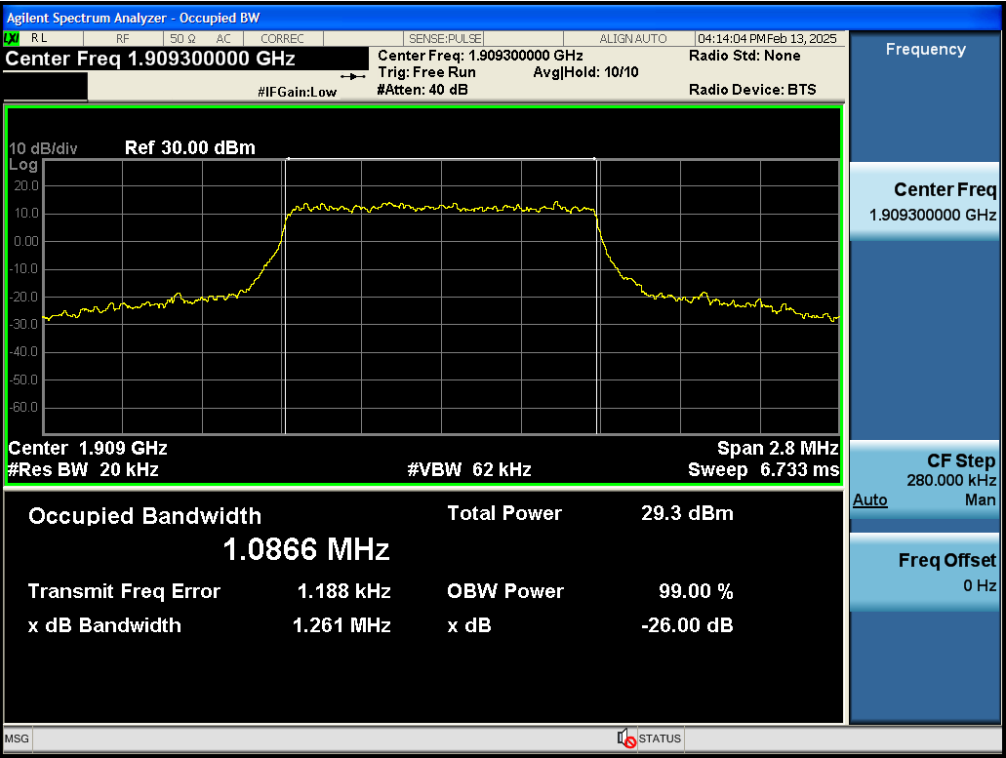
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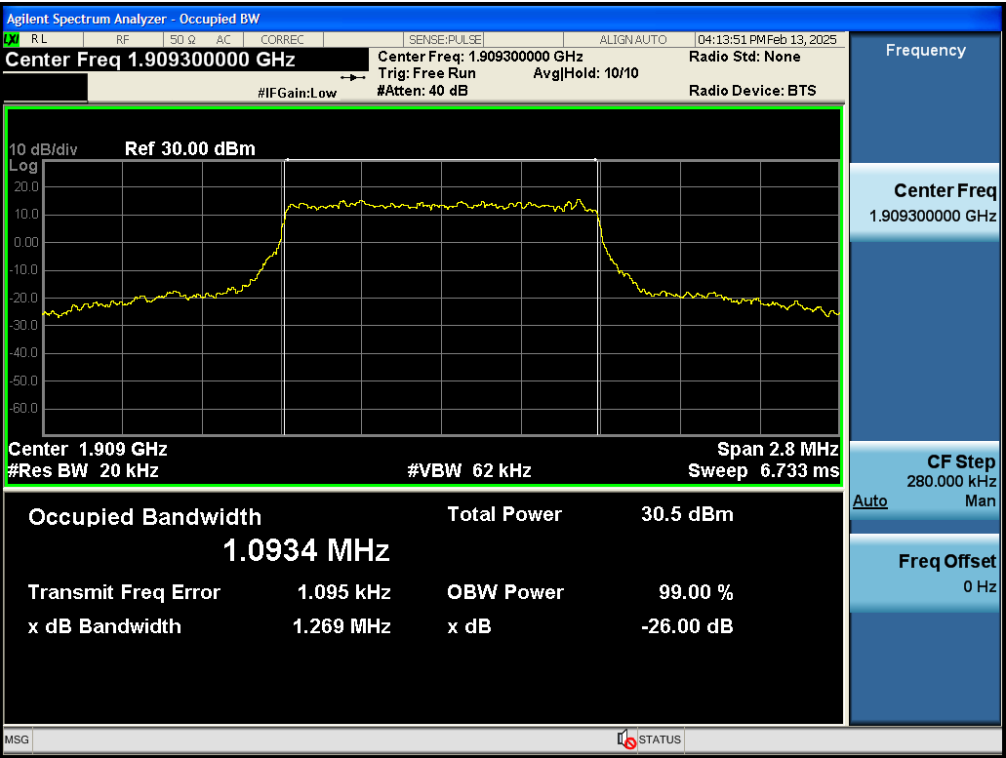
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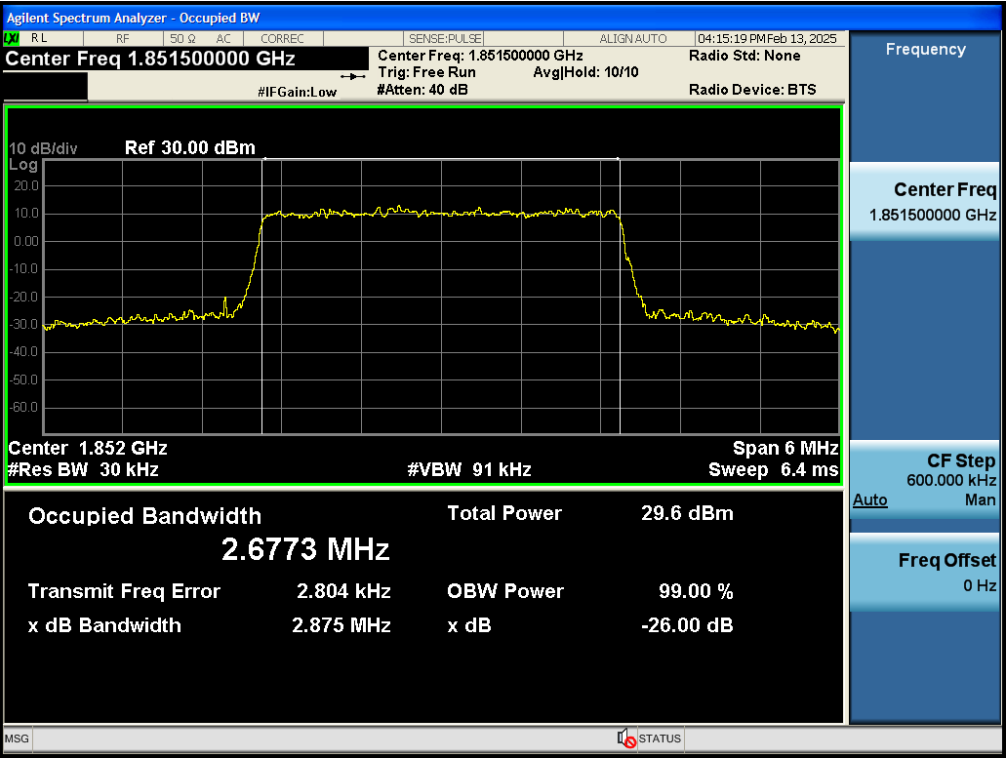
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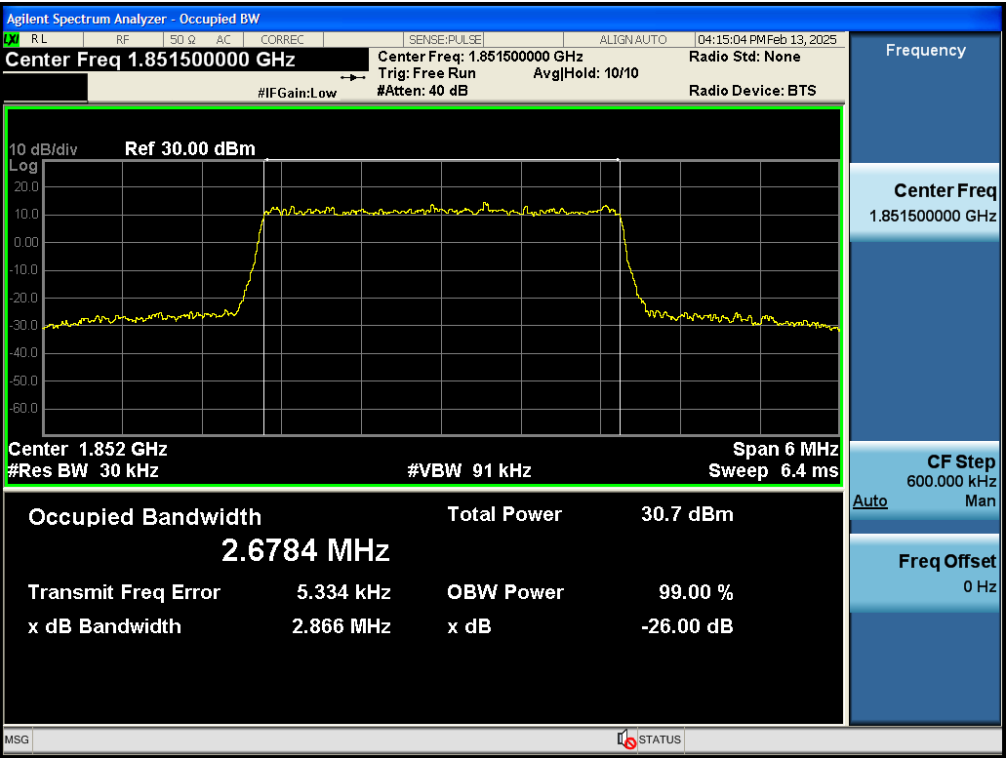
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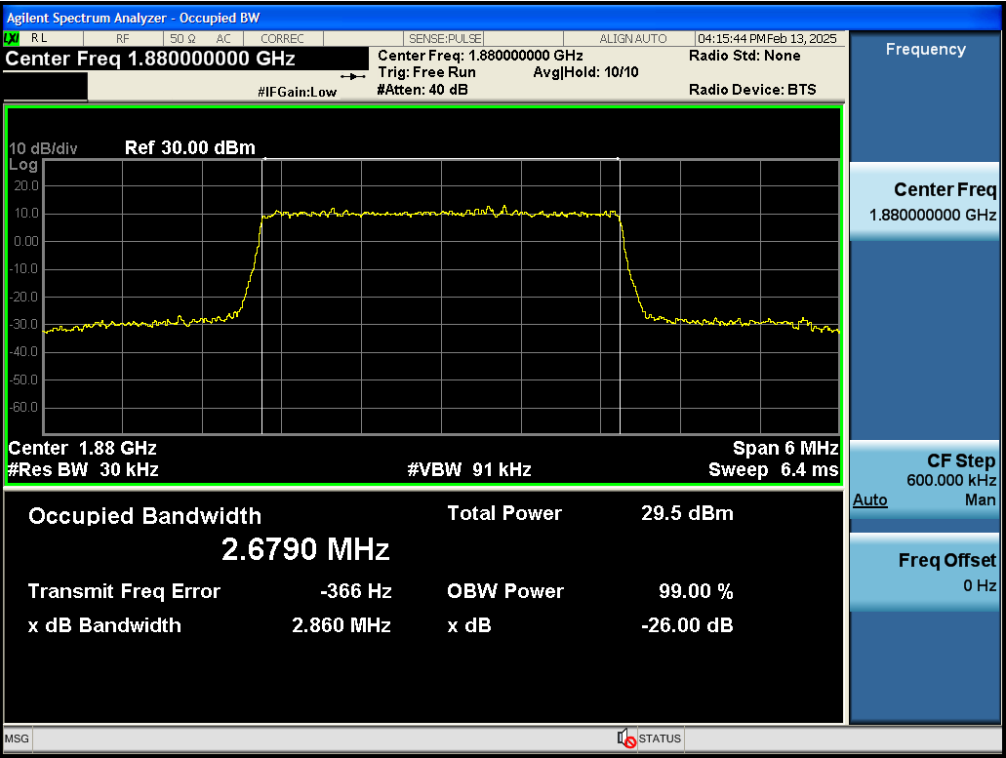
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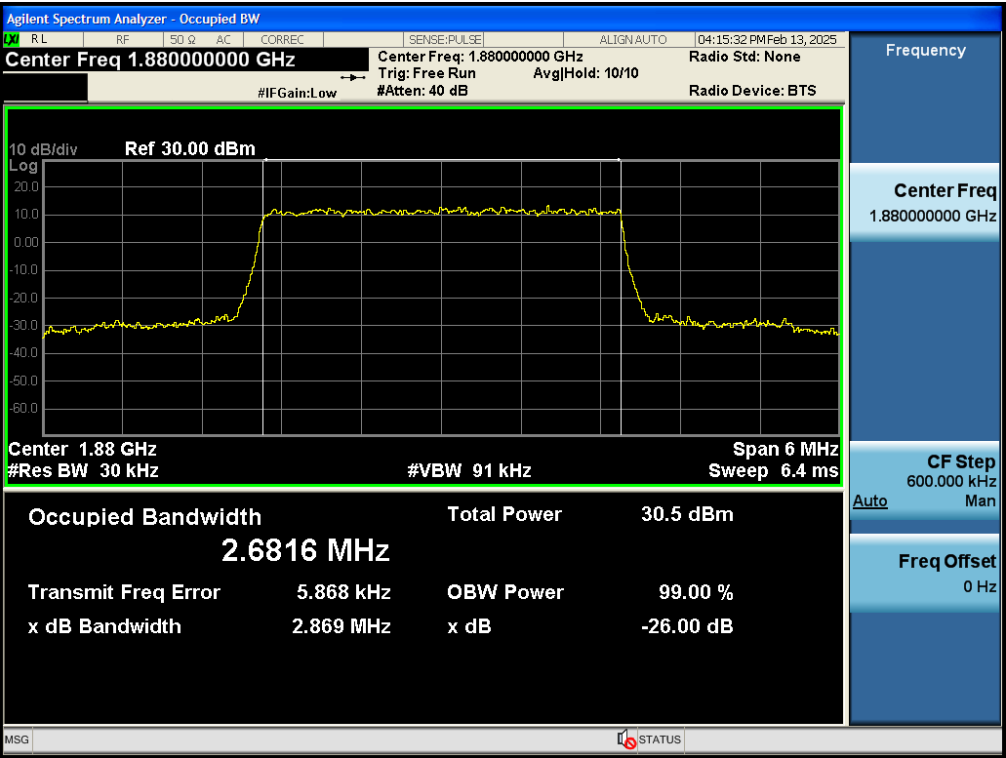
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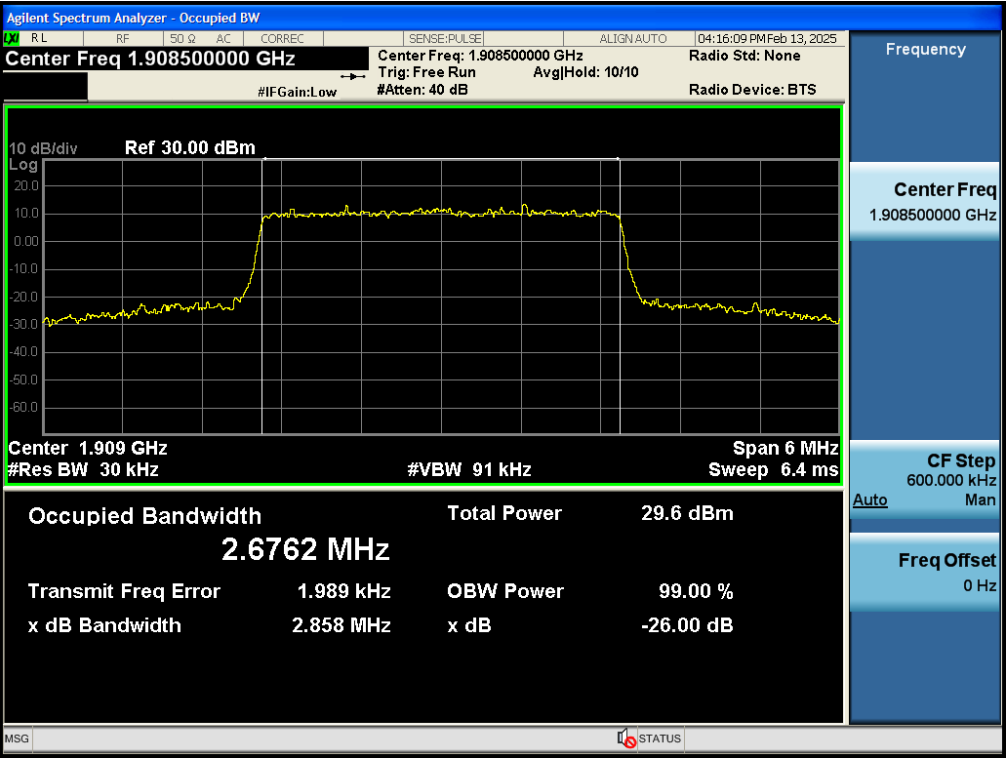
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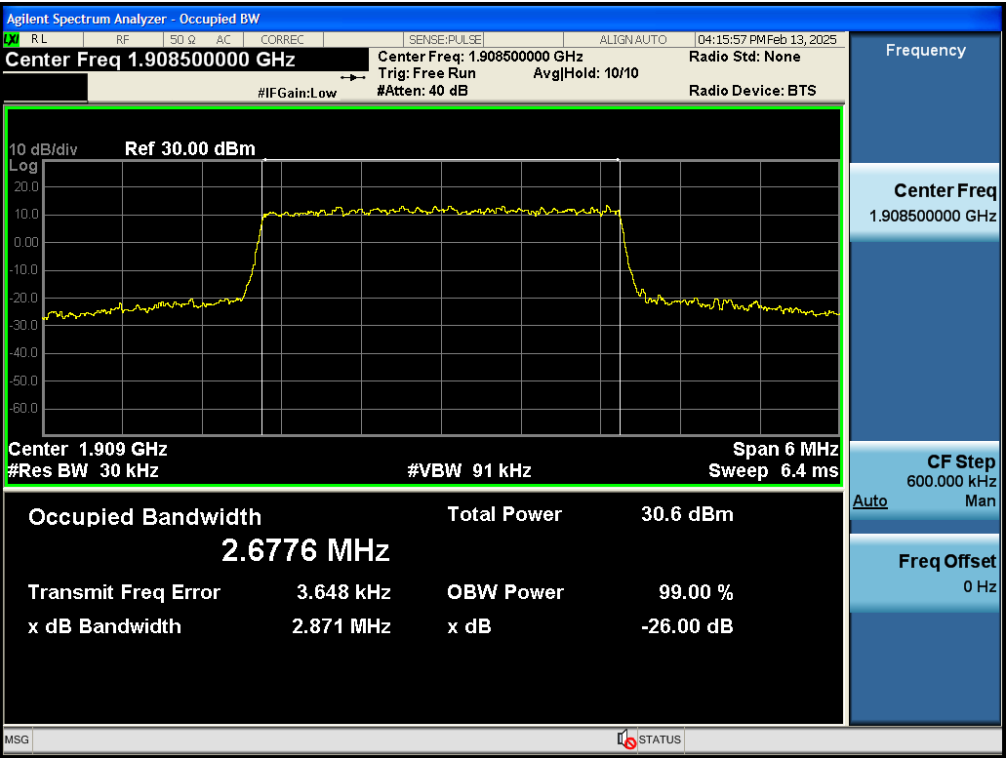
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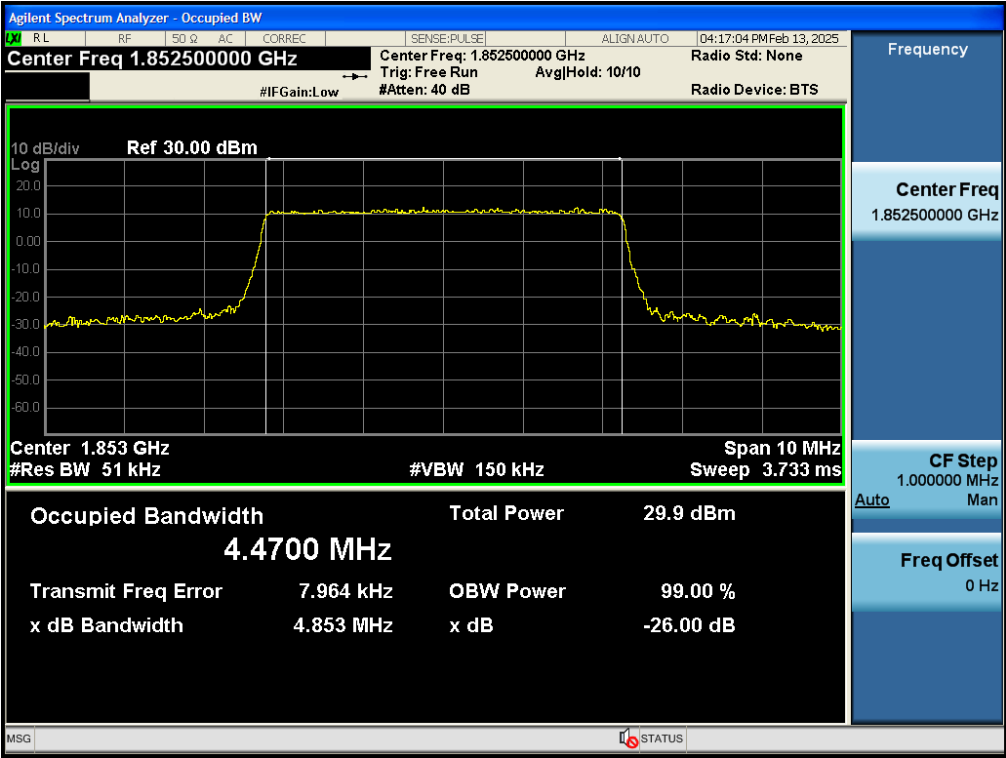
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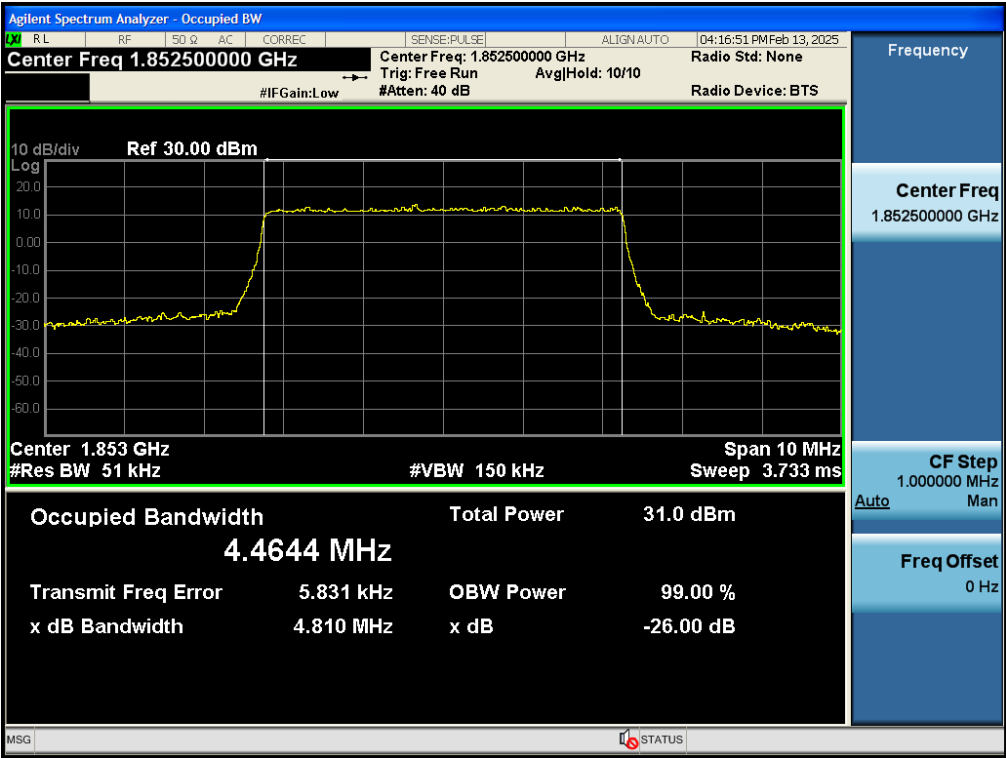
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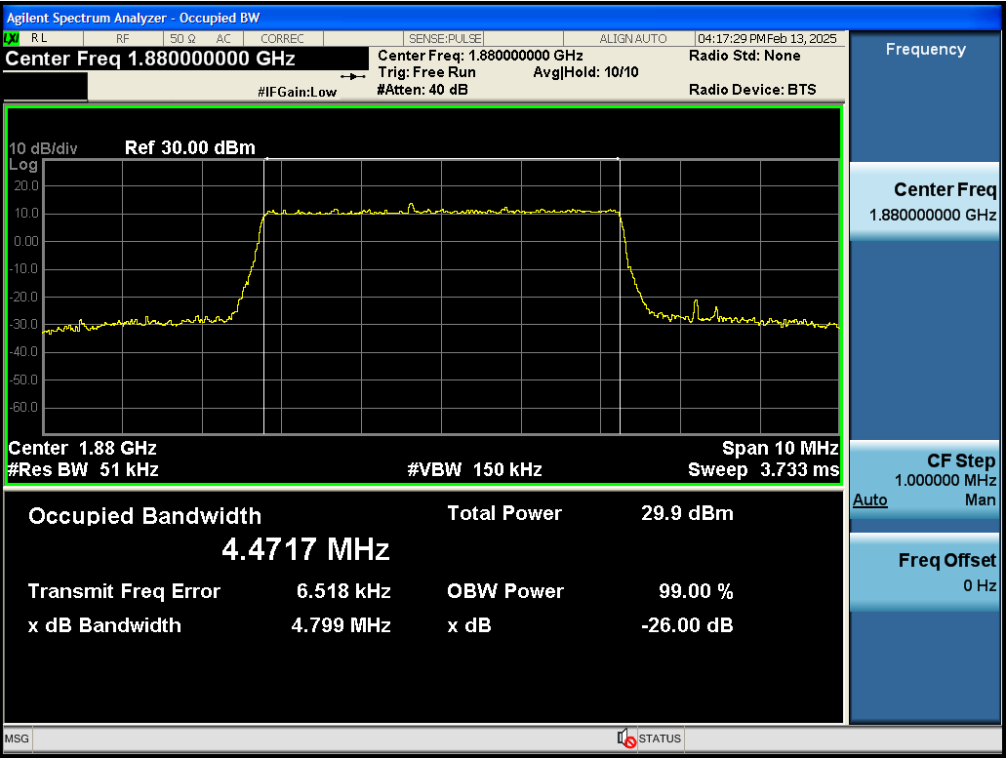
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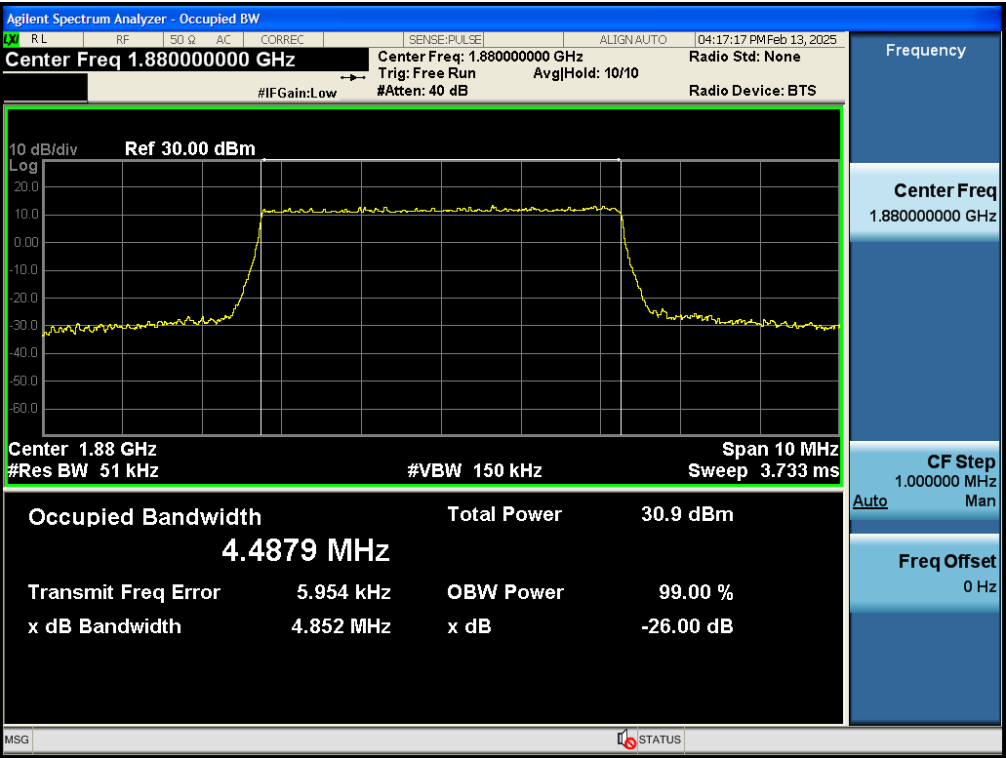
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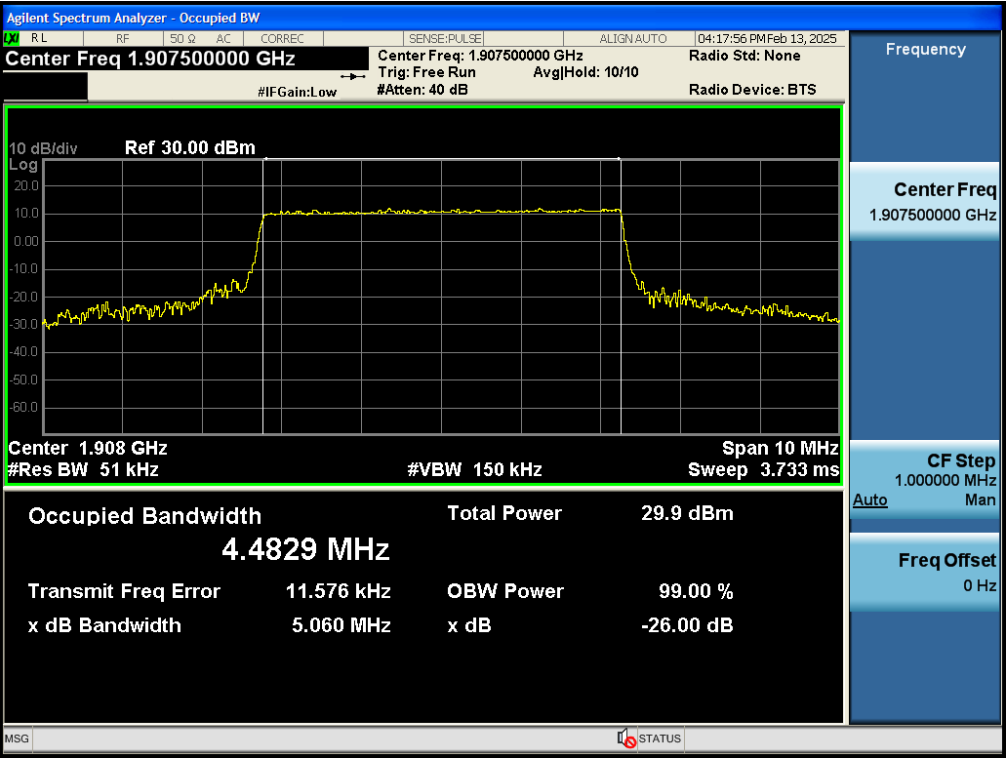
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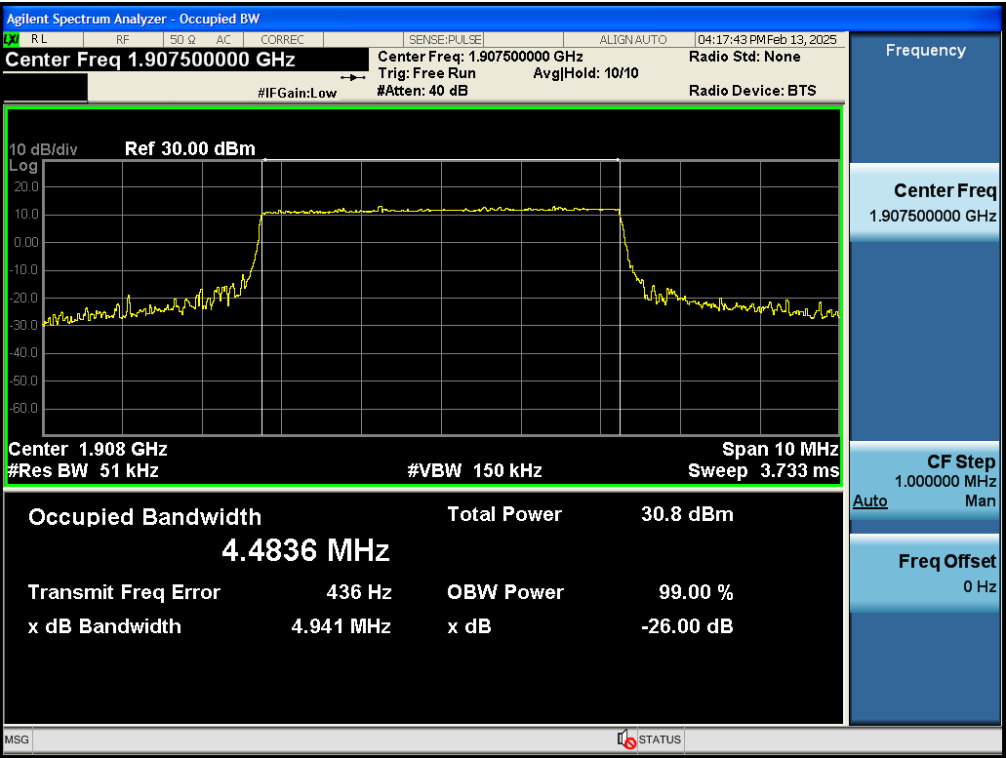
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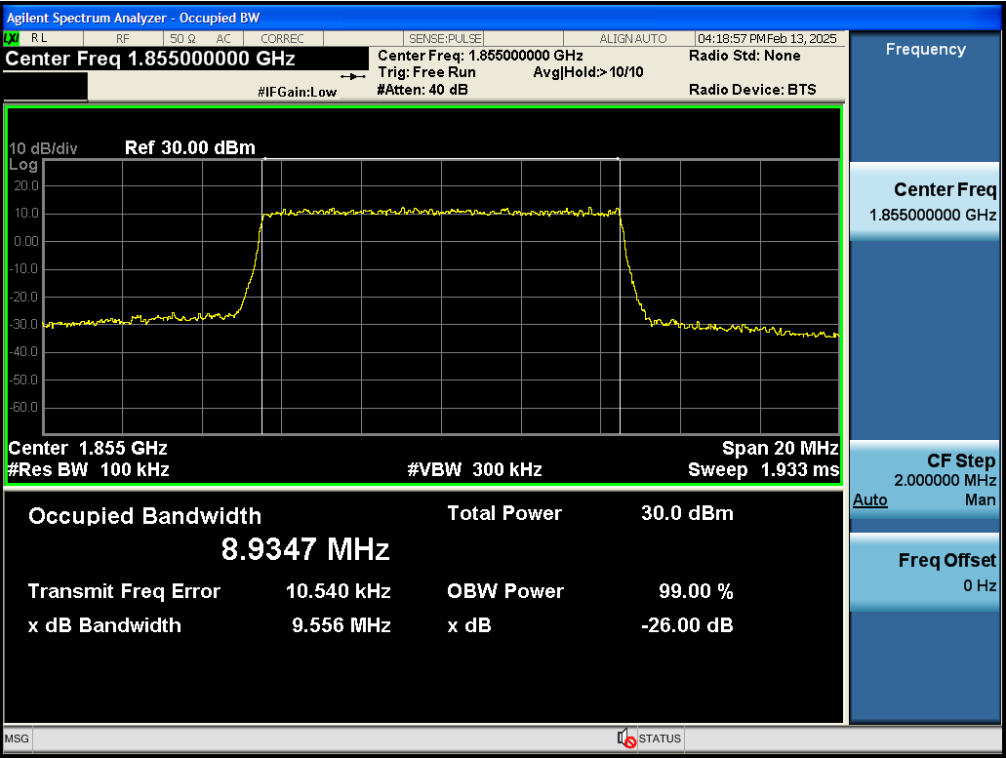
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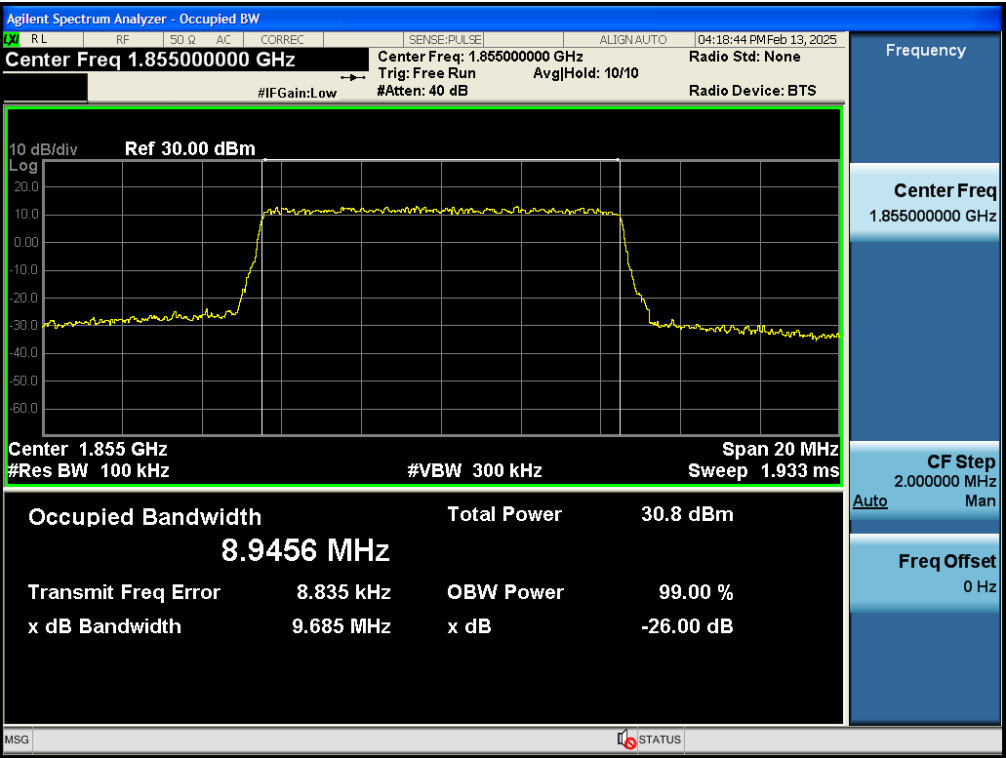
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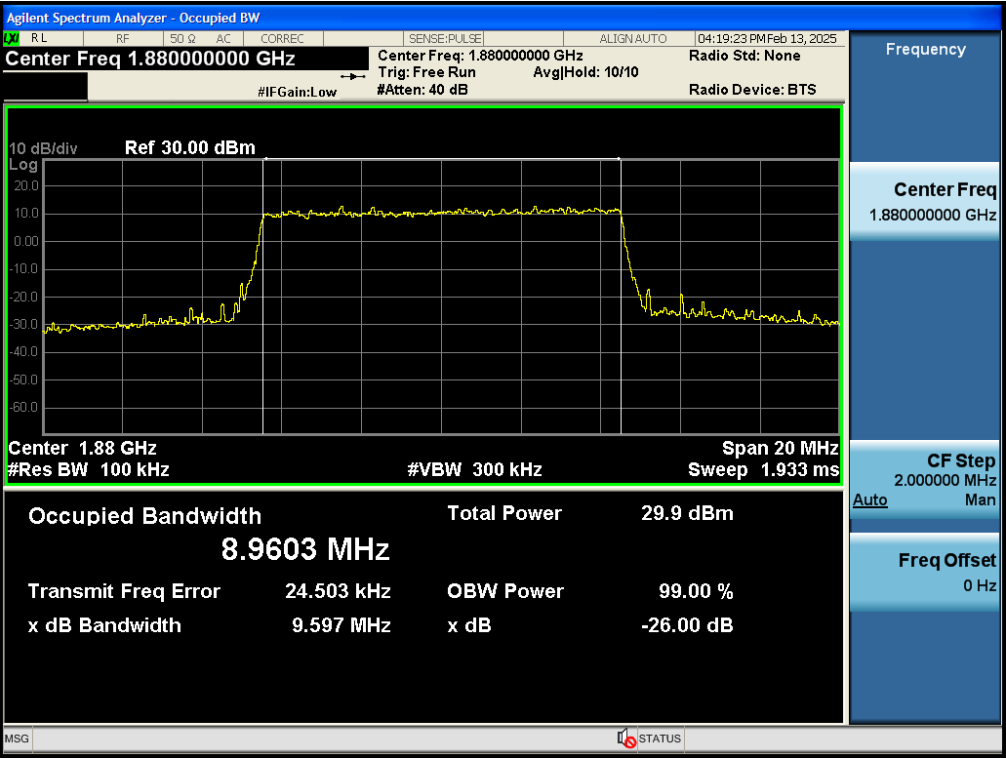
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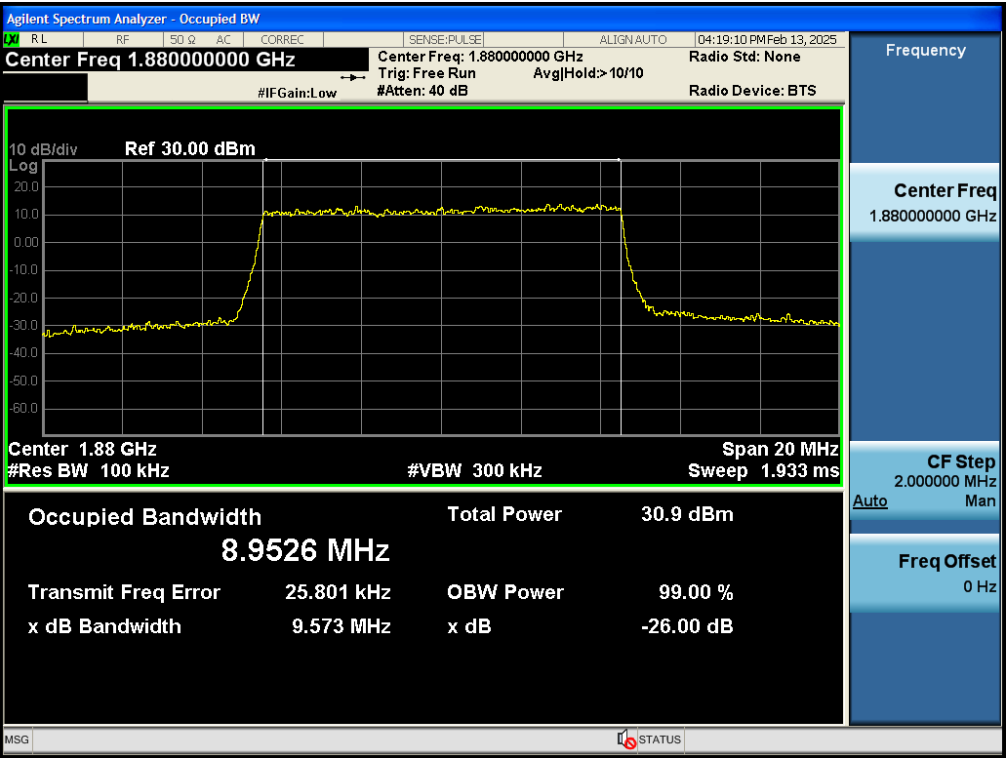
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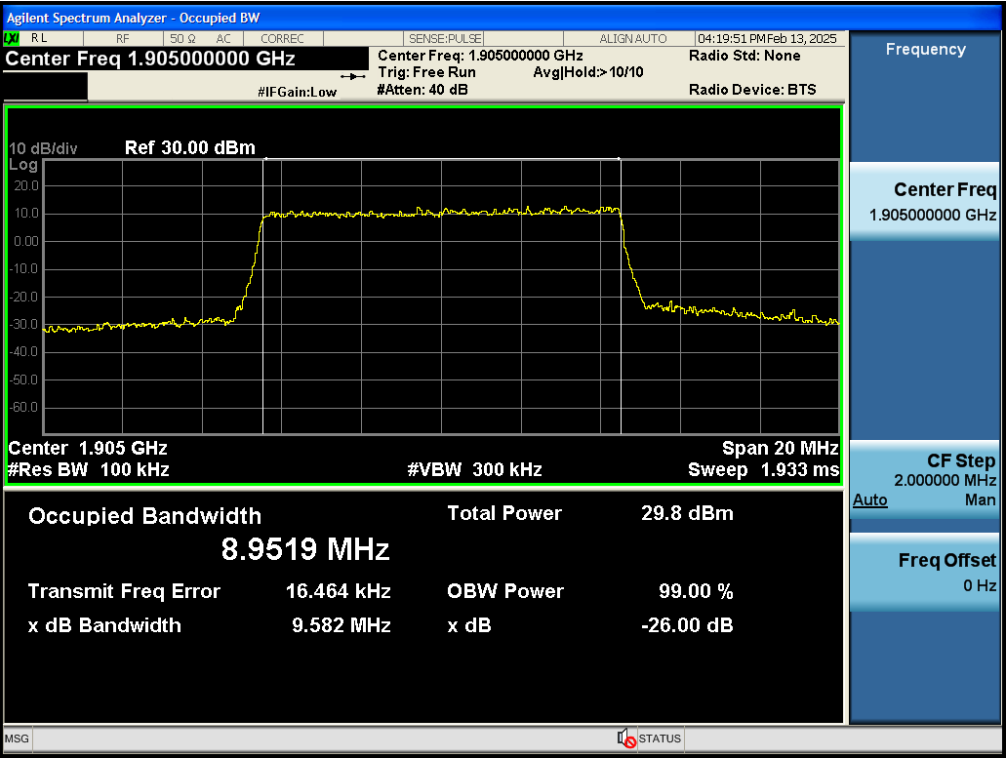
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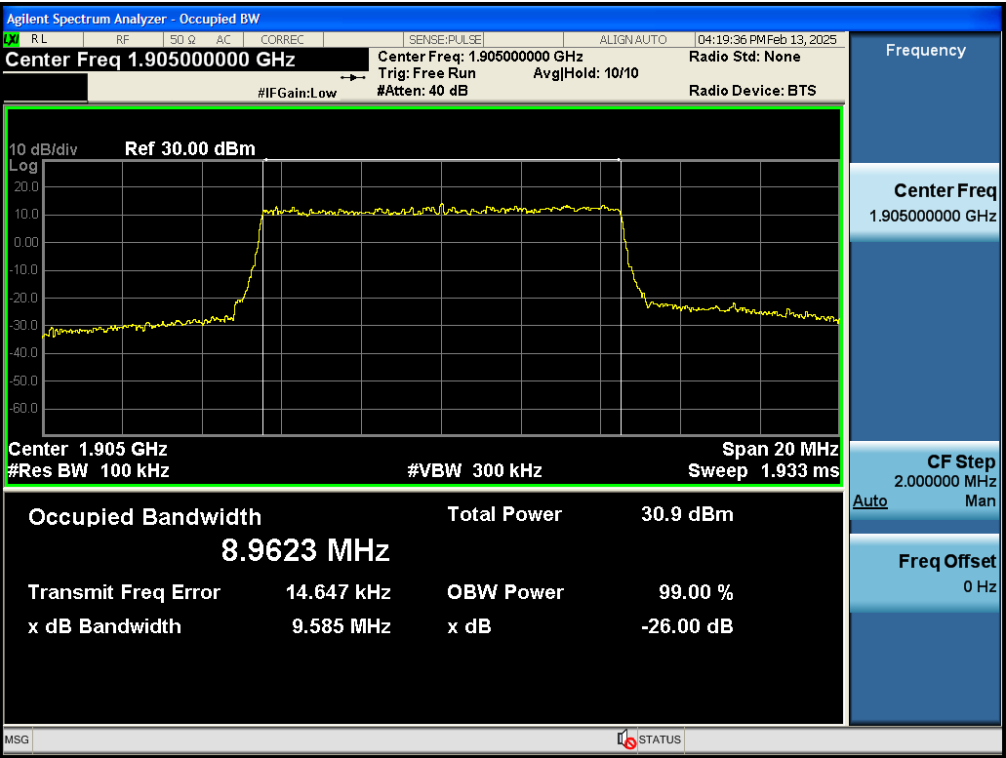
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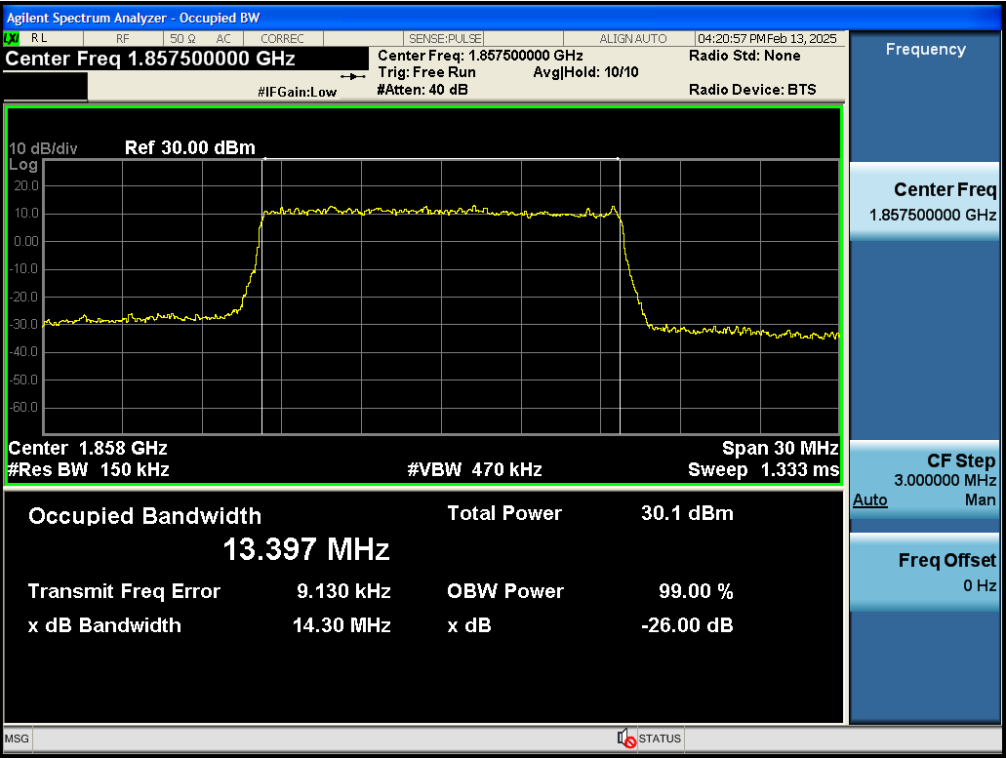
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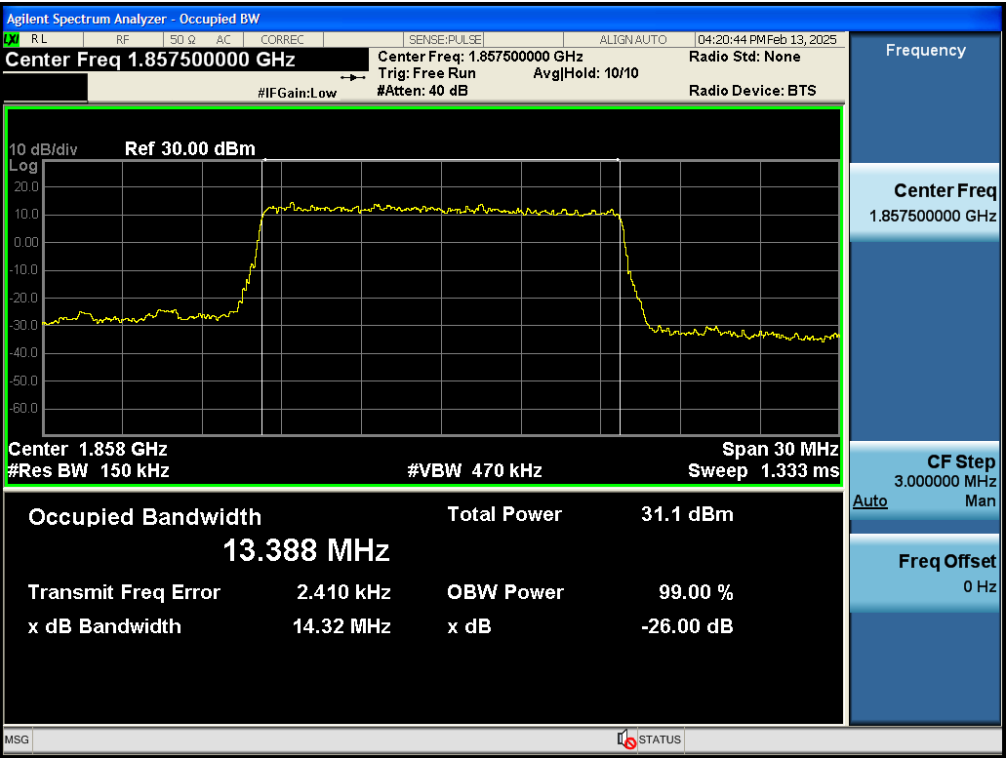
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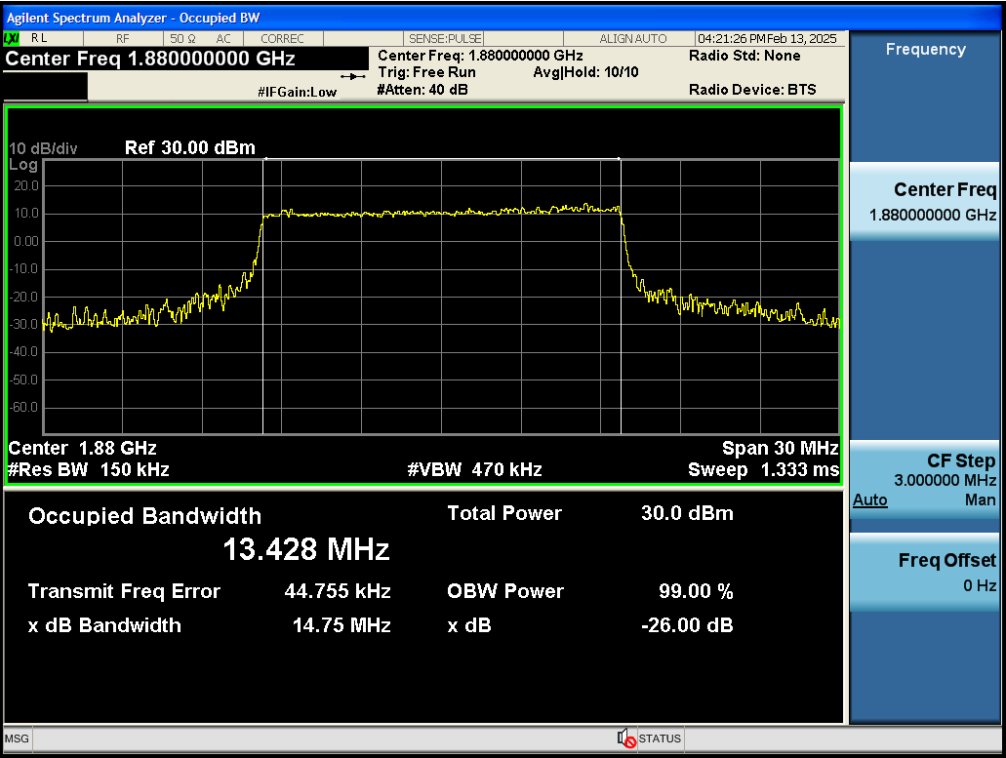
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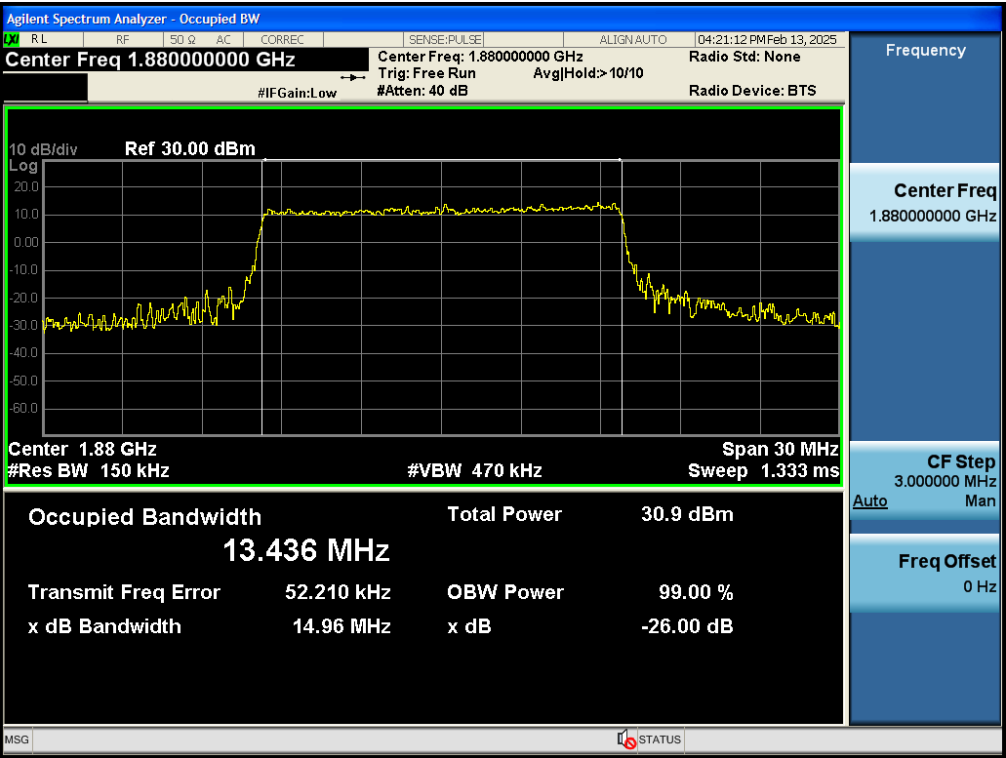
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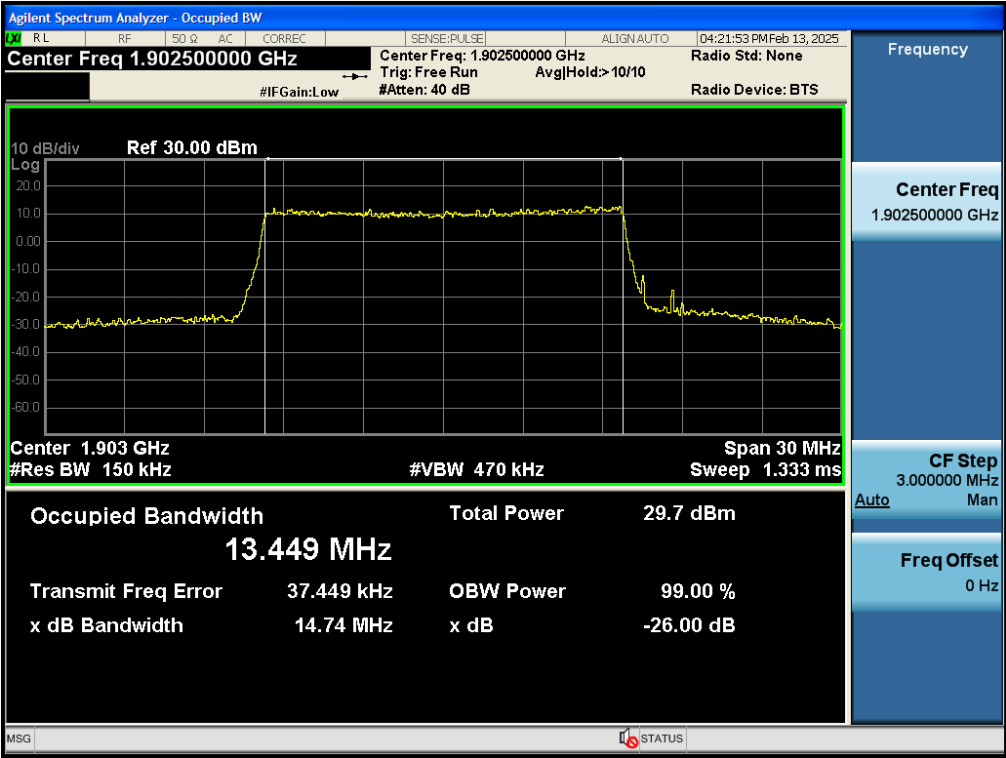
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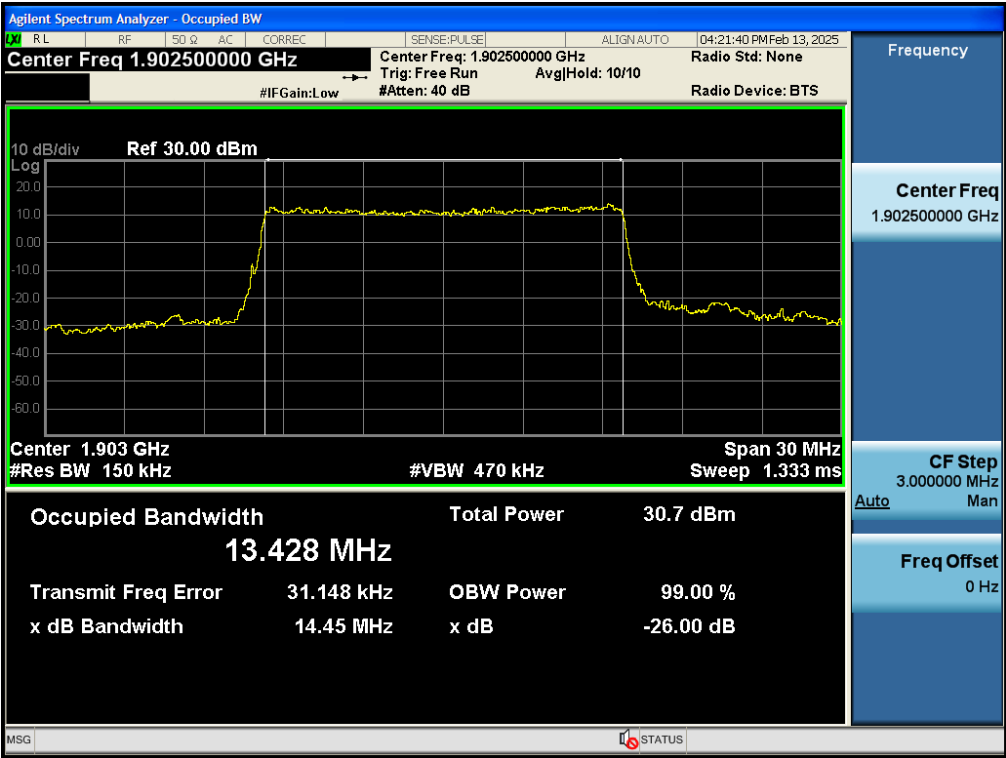
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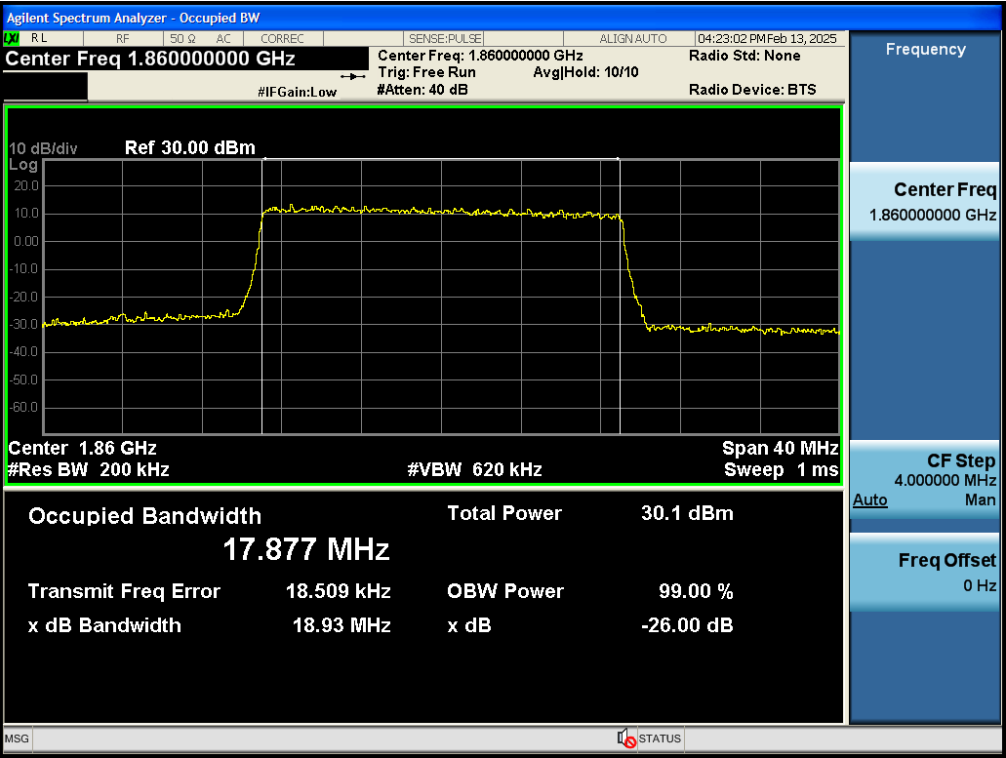
Test_Graph_band2_1880MHz_15M_QPSK_75RB#LOW_OBW&EBW



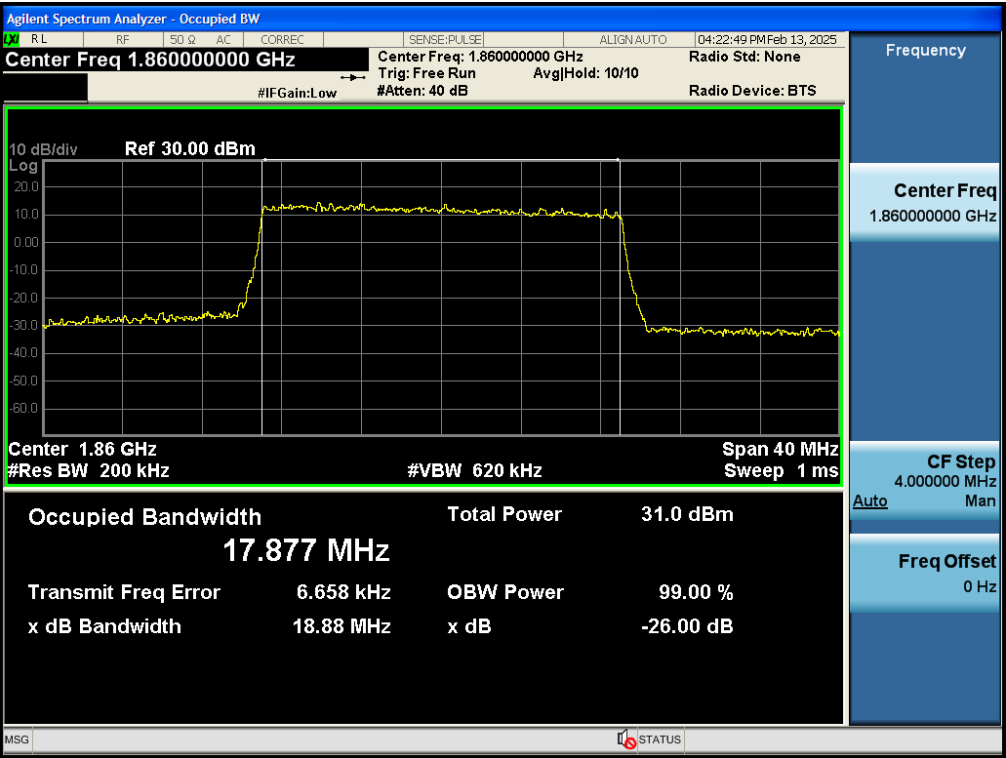
Test_Graph_band2_1902.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



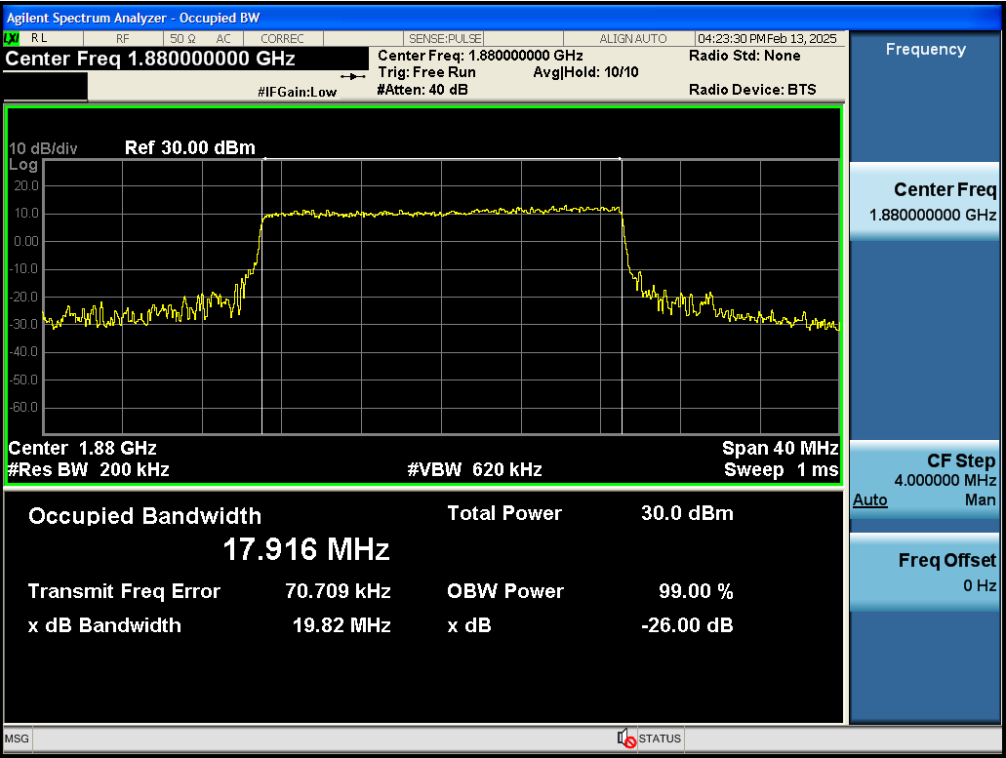
Test_Graph_band2_1902.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



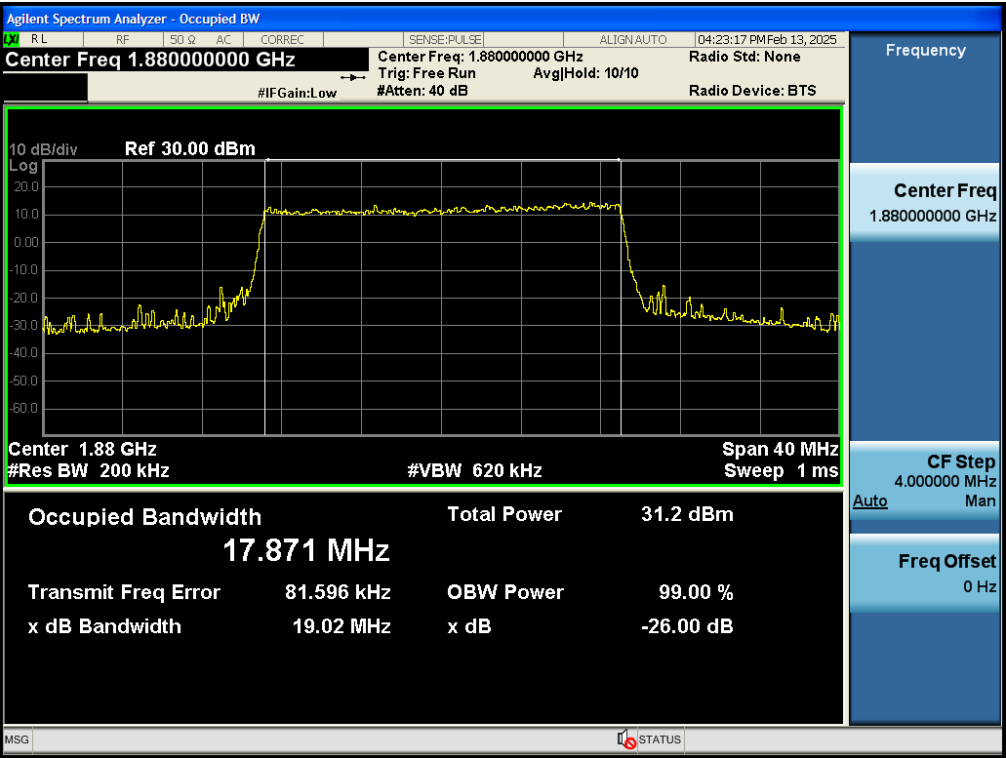
Test_Graph_band2_1860MHz_20M_16QAM_100RB#LOW_OBW&EBW



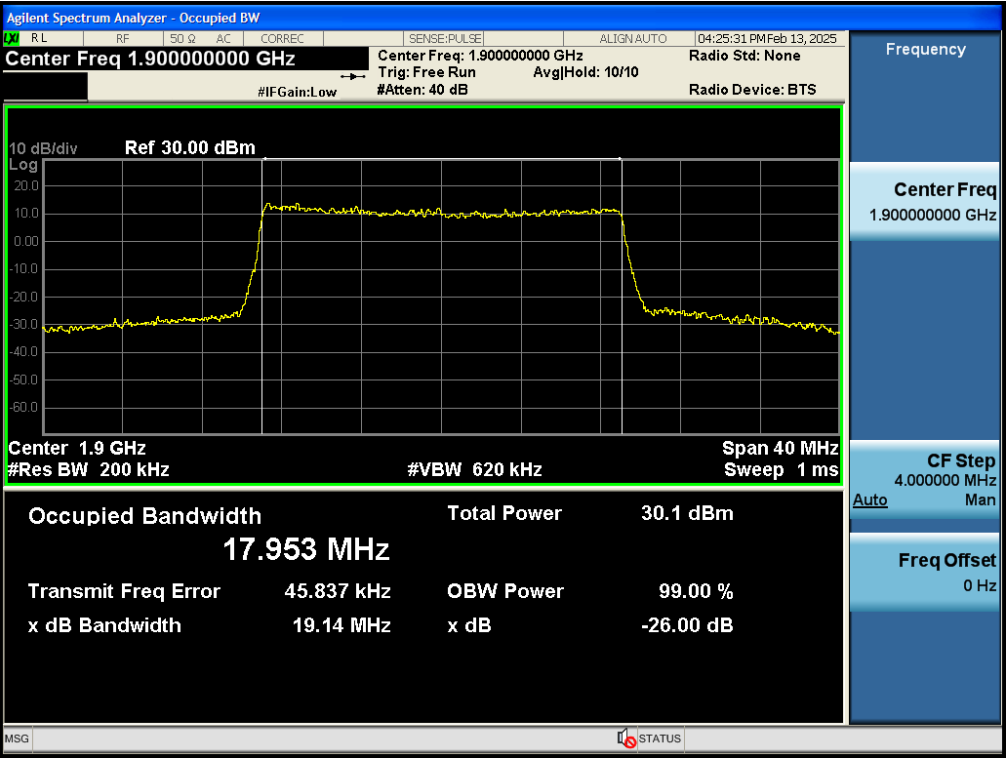
Test_Graph_band2_1860MHz_20M_QPSK_100RB#LOW_OBW&EBW



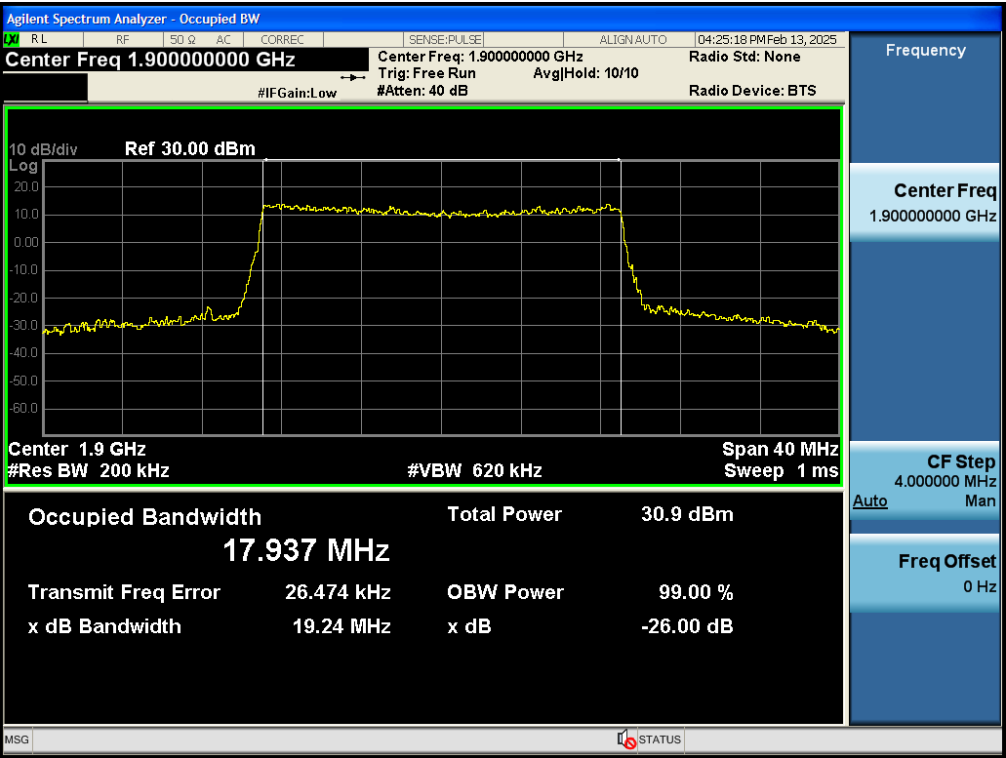
Test_Graph_band2_1880MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band2_1880MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band2_1900MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band2_1900MHz_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
2	1.4	1850.7	QPSK	6	LOW	Pass
2	1.4	1850.7	16QAM	6	LOW	Pass
2	1.4	1909.3	QPSK	6	LOW	Pass
2	1.4	1909.3	16QAM	6	LOW	Pass
2	3	1851.5	QPSK	15	LOW	Pass
2	3	1851.5	16QAM	15	LOW	Pass
2	3	1908.5	QPSK	15	LOW	Pass
2	3	1908.5	16QAM	15	LOW	Pass
2	5	1852.5	QPSK	25	LOW	Pass
2	5	1852.5	16QAM	25	LOW	Pass
2	5	1907.5	QPSK	25	LOW	Pass
2	5	1907.5	16QAM	25	LOW	Pass
2	10	1855	QPSK	50	LOW	Pass
2	10	1855	16QAM	50	LOW	Pass
2	10	1905	QPSK	50	LOW	Pass
2	10	1905	16QAM	50	HIGH	Pass
2	15	1857.5	QPSK	75	LOW	Pass
2	15	1857.5	16QAM	75	LOW	Pass
2	15	1902.5	QPSK	75	LOW	Pass
2	15	1902.5	16QAM	75	HIGH	Pass
2	20	1860	QPSK	100	LOW	Pass
2	20	1860	16QAM	100	LOW	Pass
2	20	1900	QPSK	100	LOW	Pass
2	20	1900	16QAM	100	HIGH	Pass

Test Graphs



Test_Graph_band2_1850.7MHz_1.4M_16QAM_6RB#LOW_Band edge



Test_Graph_band2_1850.7MHz_1.4M_QPSK_6RB#LOW_Band edge



Test_Graph_band2_1909.3MHz_1.4M_16QAM_6RB#LOW_Band edge



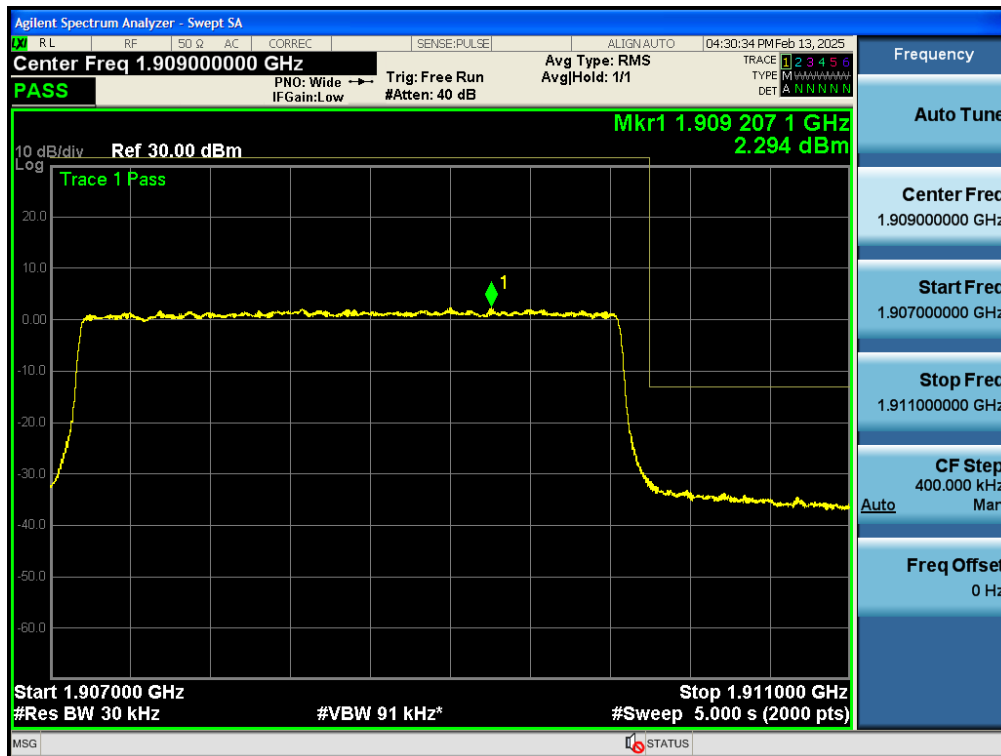
Test_Graph_band2_1909.3MHz_1.4M_QPSK_6RB#LOW_Band edge



Test_Graph_band2_1851.5MHz_3M_16QAM_15RB#LOW_Band edge



Test_Graph_band2_1851.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band2_1908.5MHz_3M_16QAM_15RB#LOW_Band edge



Test_Graph_band2_1908.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band2_1852.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band2_1852.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band2_1907.5MHz_5M_16QAM_25RB#LOW_Band edge



Test_Graph_band2_1907.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band2_1855MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band2_1855MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band2_1905MHz_10M_16QAM_50RB#HIGH_Band edge



Test_Graph_band2_1905MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band2_1857.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band2_1857.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band2_1902.5MHz_15M_16QAM_75RB#HIGH_Band edge



Test_Graph_band2_1902.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band2_1860MHz_20M_16QAM_100RB#LOW_Band edge



Test_Graph_band2_1860MHz_20M_QPSK_100RB#LOW_Band edge



Test_Graph_band2_1900MHz_20M_16QAM_100RB#HIGH_Band edge



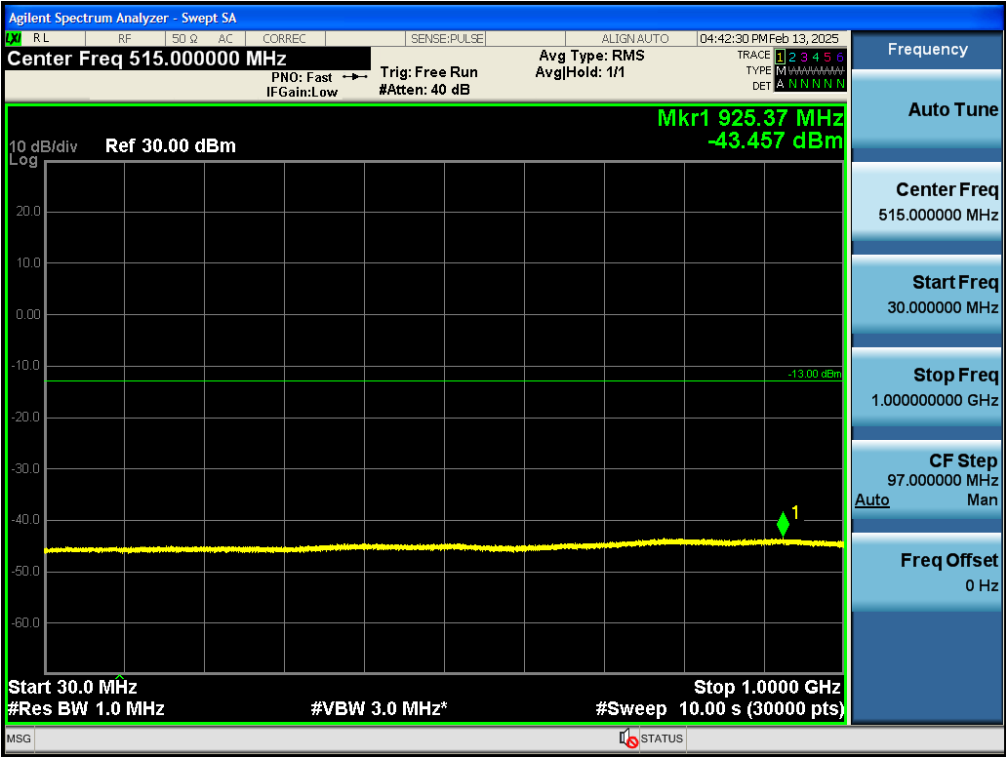
Test_Graph_band2_1900MHz_20M_QPSK_100RB#LOW_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
2	1.4	1850.7	QPSK	6	LOW	Pass
2	1.4	1880	QPSK	6	LOW	Pass
2	1.4	1909.3	QPSK	6	LOW	Pass
2	3	1851.5	QPSK	15	LOW	Pass
2	3	1880	QPSK	15	LOW	Pass
2	3	1908.5	QPSK	15	LOW	Pass
2	5	1852.5	QPSK	25	LOW	Pass
2	5	1880	QPSK	25	LOW	Pass
2	5	1907.5	QPSK	25	LOW	Pass
2	10	1855	QPSK	50	LOW	Pass
2	10	1880	QPSK	50	LOW	Pass
2	10	1905	QPSK	50	LOW	Pass
2	15	1857.5	QPSK	75	LOW	Pass
2	15	1880	QPSK	75	LOW	Pass
2	15	1902.5	QPSK	75	LOW	Pass
2	20	1860	QPSK	100	LOW	Pass
2	20	1880	QPSK	100	LOW	Pass
2	20	1900	QPSK	100	LOW	Pass

Test Graphs



Test_Graph_band2_1850.7MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



Test_Graph_band2_1850.7MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



Test_Graph_band2_1850.7MHz_1.4M_QPSK_6RB#LOW_10G_20.0G_TX



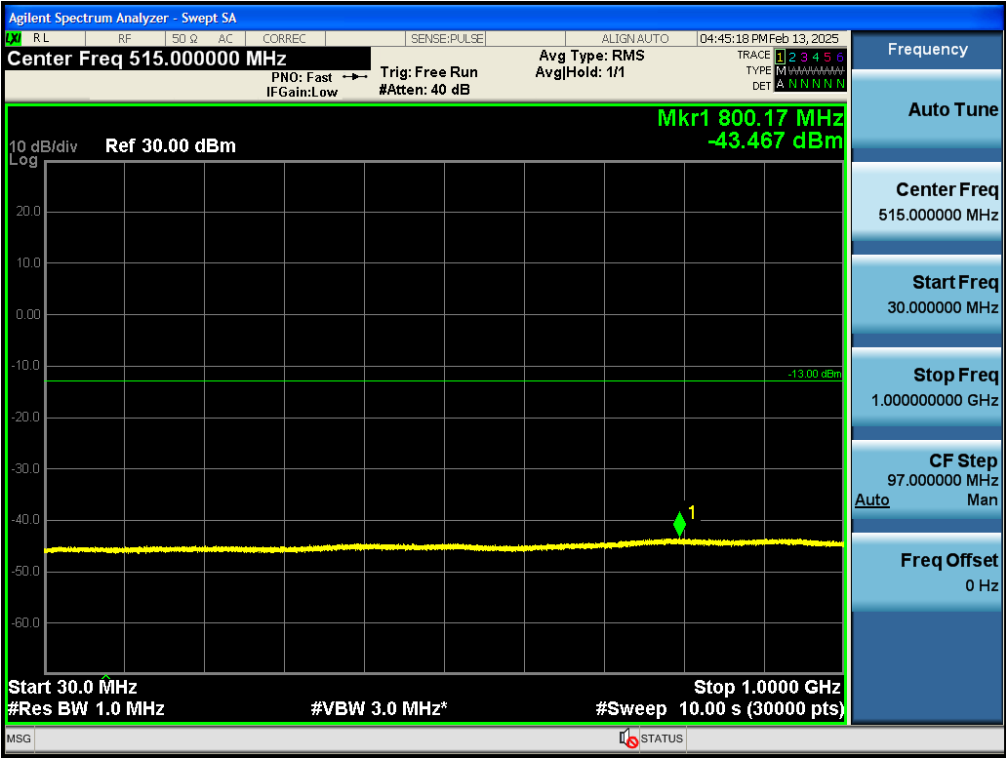
Test_Graph_band2_1880MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



Test_Graph_band2_1880MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



Test_Graph_band2_1880MHz_1.4M_QPSK_6RB#LOW_10G_20.0G_TX



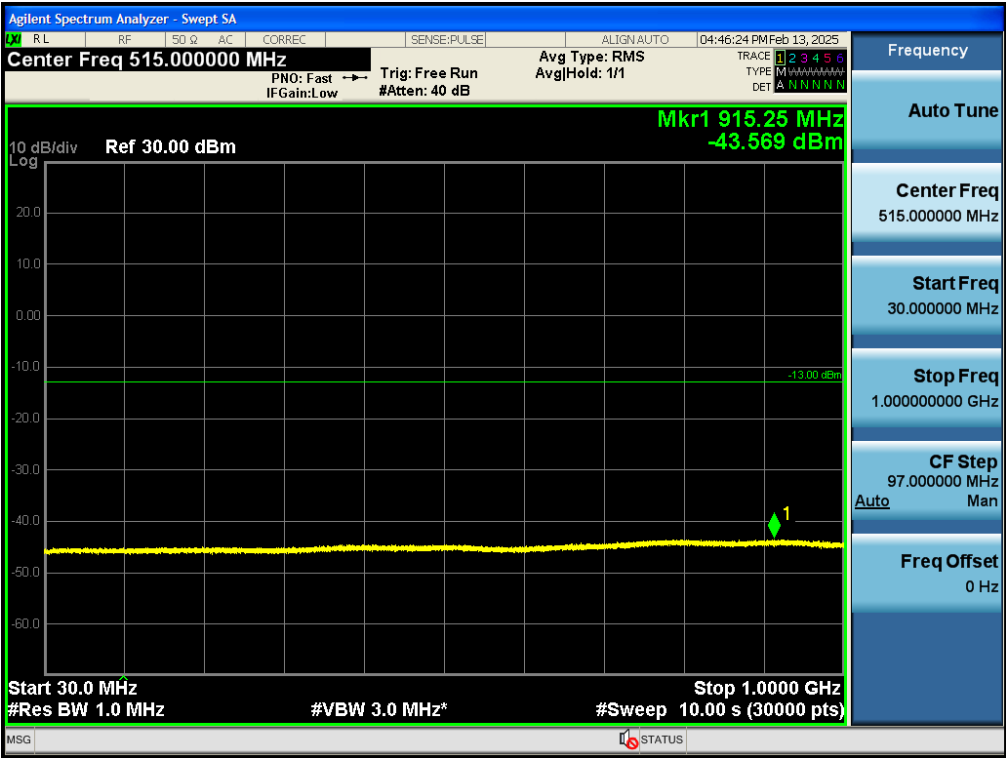
Test_Graph_band2_1909.3MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



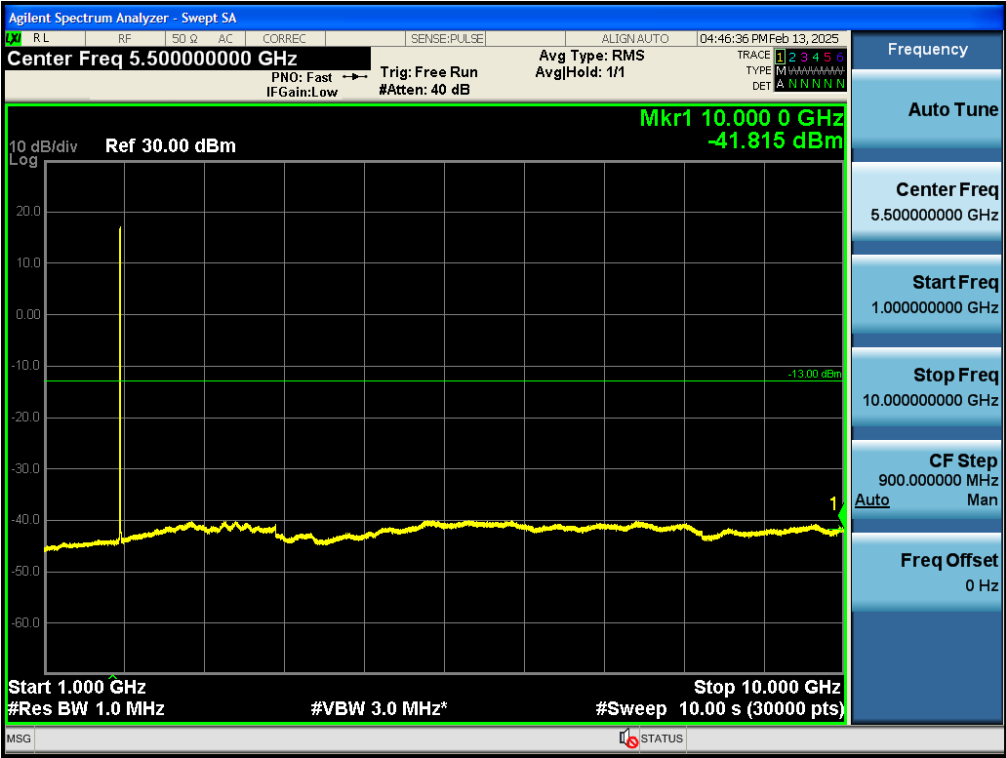
Test_Graph_band2_1909.3MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



Test_Graph_band2_1909.3MHz_1.4M_QPSK_6RB#LOW_10G_20.0G_TX



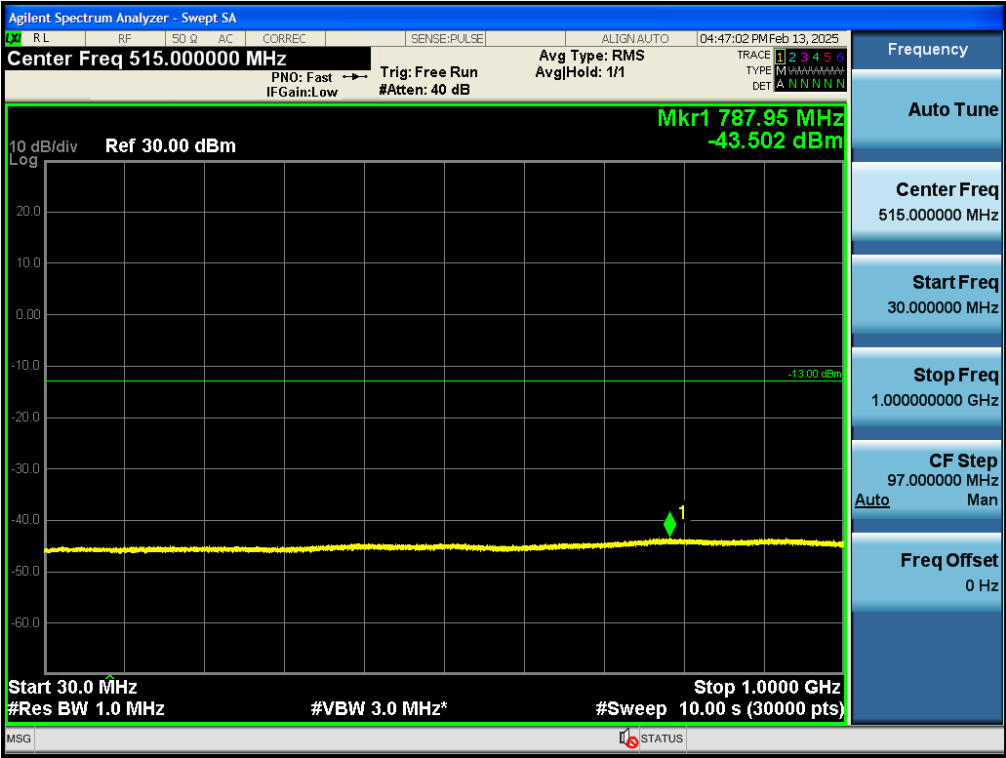
Test_Graph_band2_1851.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



Test_Graph_band2_1851.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band2_1851.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



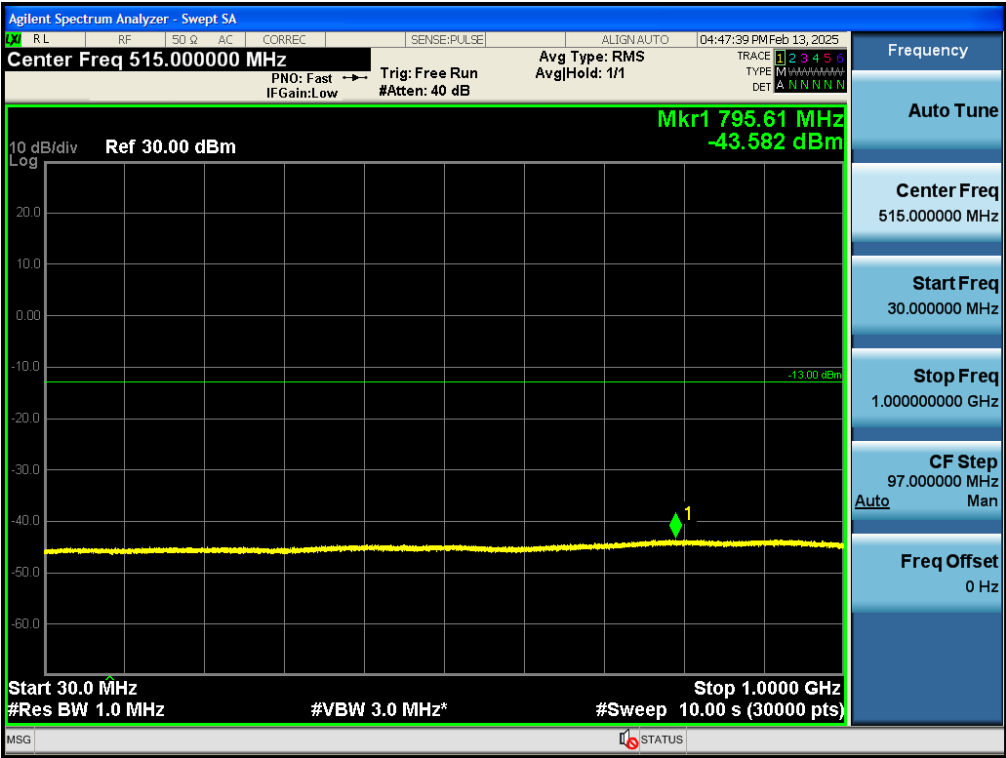
Test_Graph_band2_1880MHz_3M_QPSK_15RB#LOW_30M_1G_TX



Test_Graph_band2_1880MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band2_1880MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



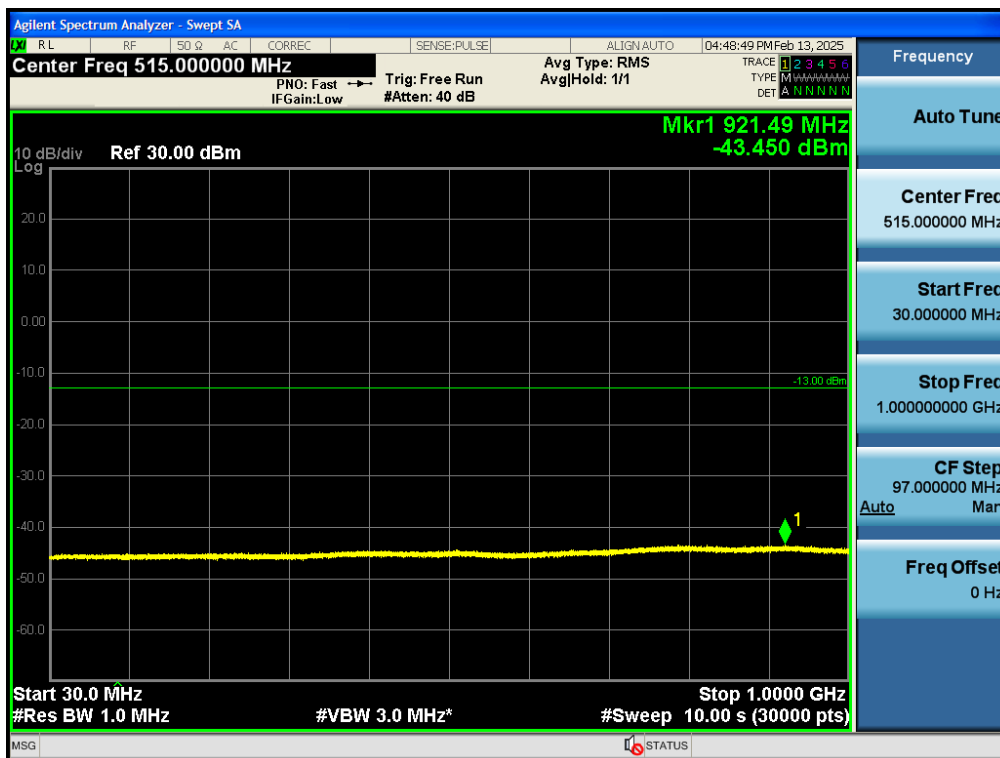
Test_Graph_band2_1908.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



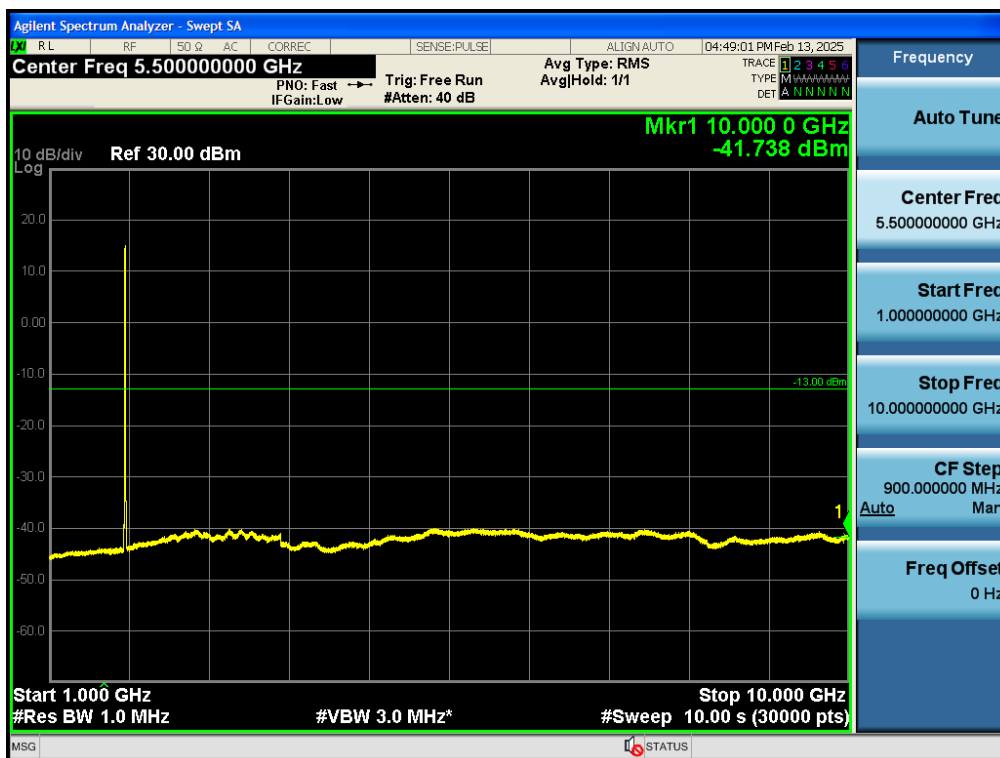
Test_Graph_band2_1908.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band2_1908.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



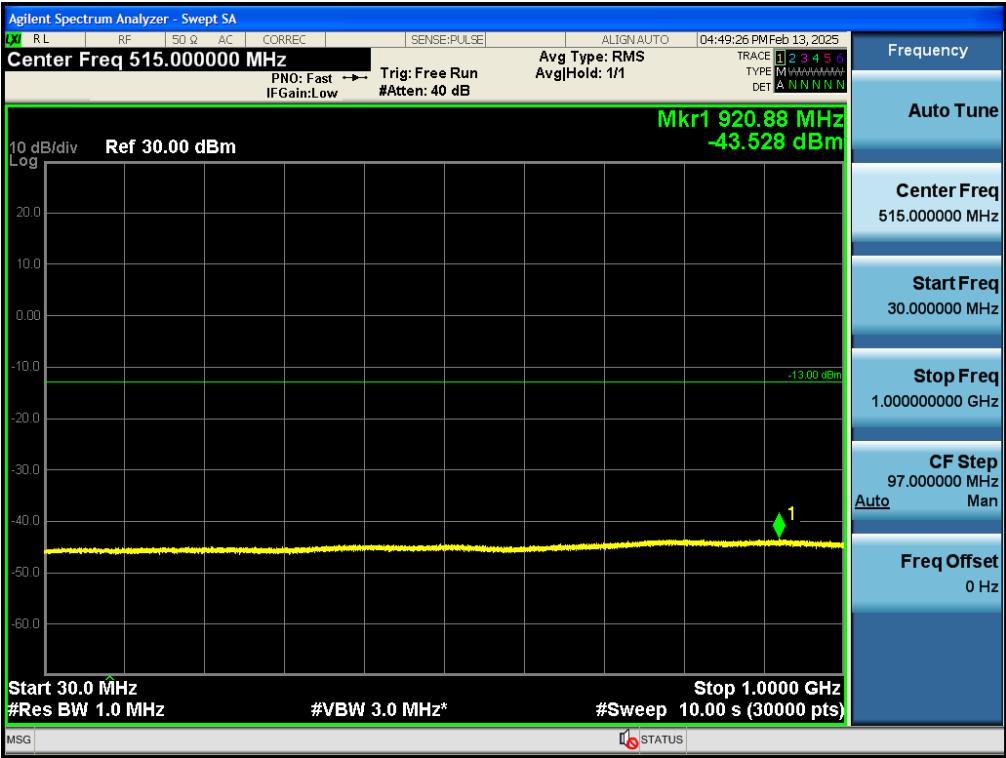
Test_Graph_band2_1852.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



Test_Graph_band2_1852.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band2_1852.5MHz_5M_QPSK_25RB#LOW_10G_20.0G_TX



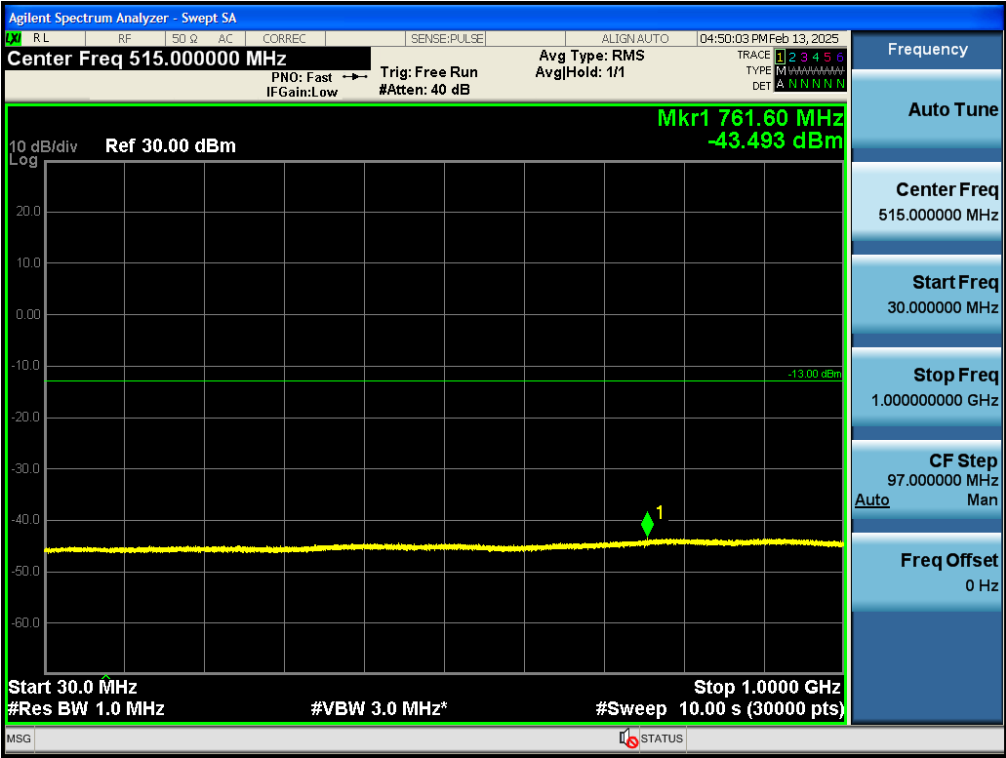
Test_Graph_band2_1880MHz_5M_QPSK_25RB#LOW_30M_1G_TX



Test_Graph_band2_1880MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band2_1880MHz_5M_QPSK_25RB#LOW_10G_20.0G_TX



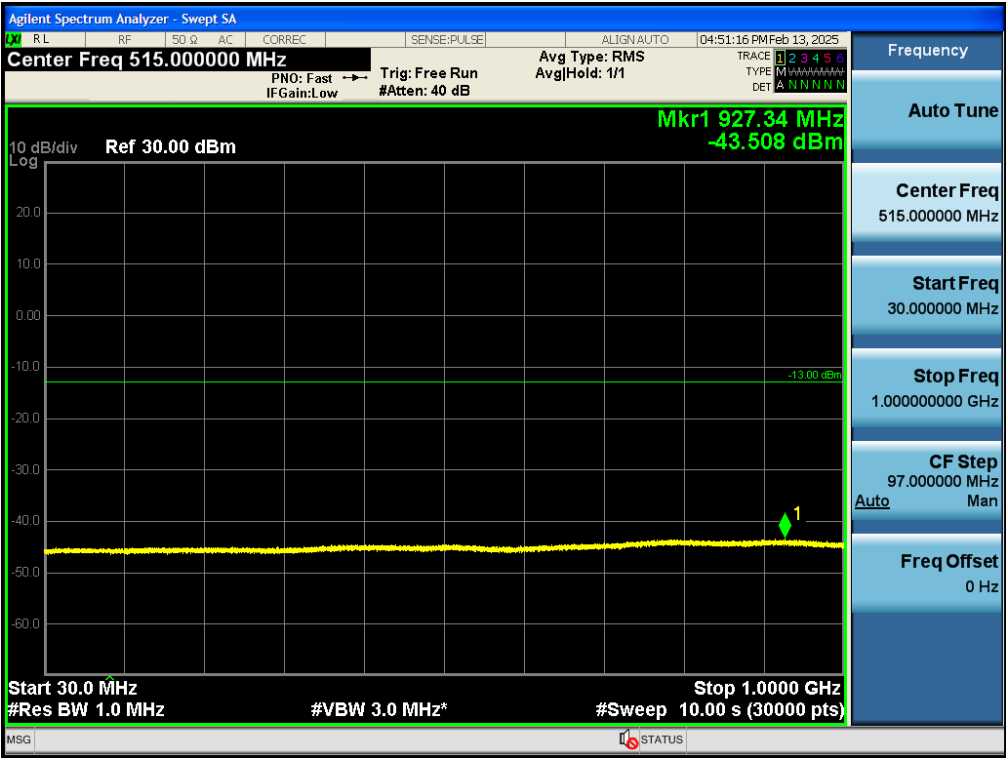
Test_Graph_band2_1907.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



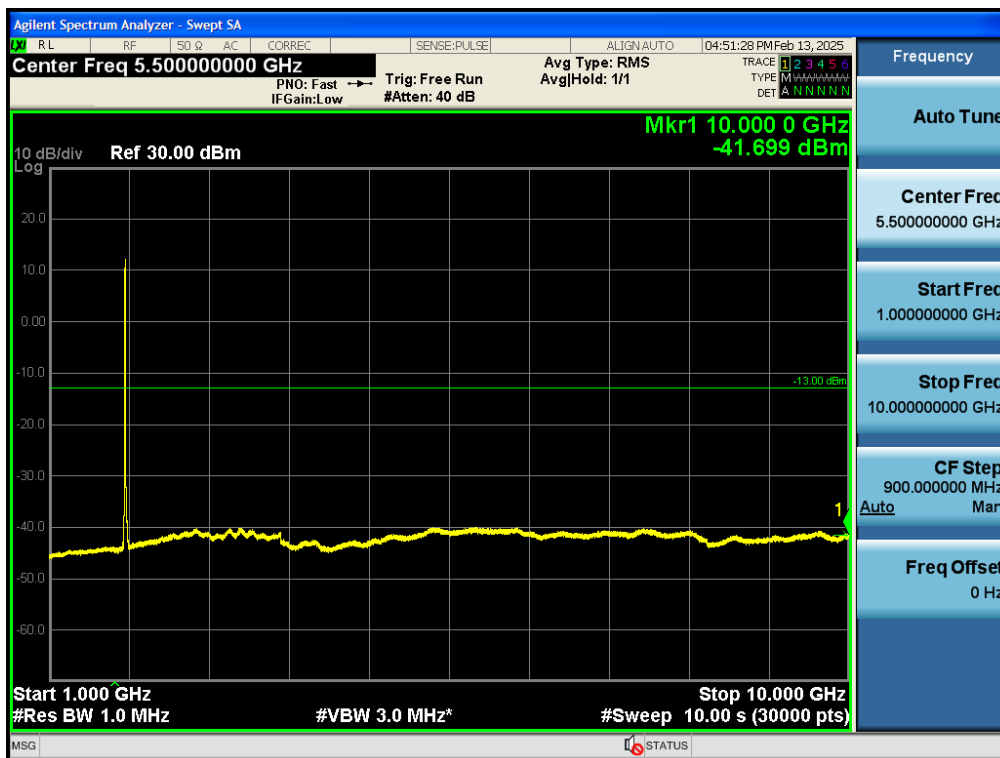
Test_Graph_band2_1907.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band2_1907.5MHz_5M_QPSK_25RB#LOW_10G_20.0G_TX



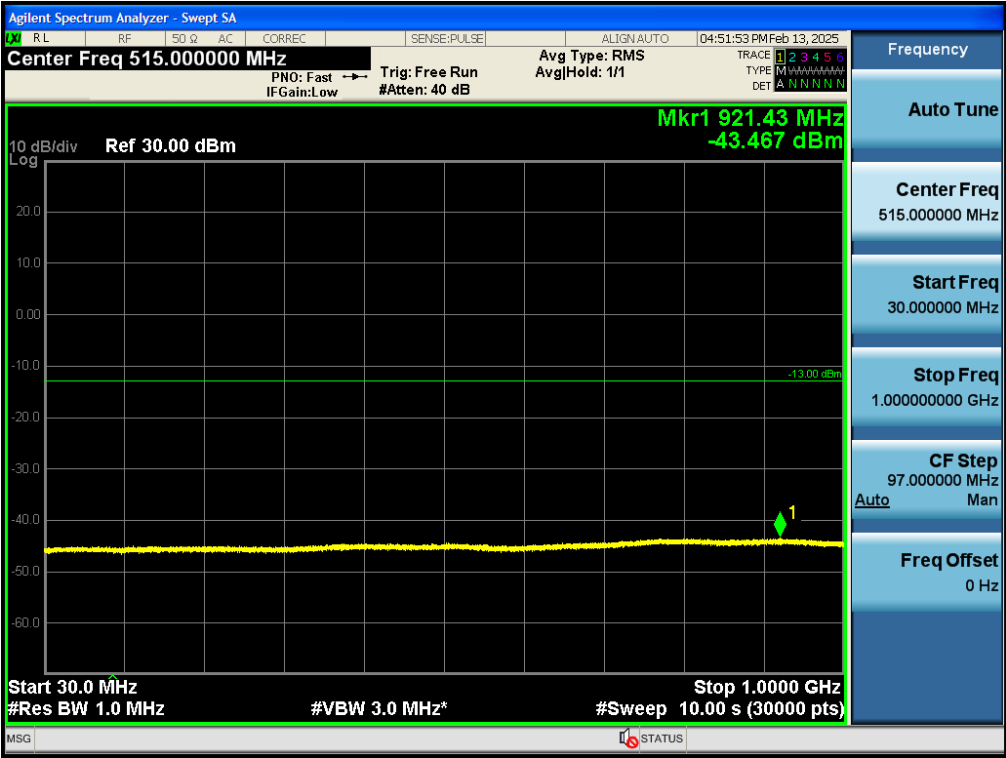
Test_Graph_band2_1855MHz_10M_QPSK_50RB#LOW_30M_1G_TX



Test_Graph_band2_1855MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band2_1855MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



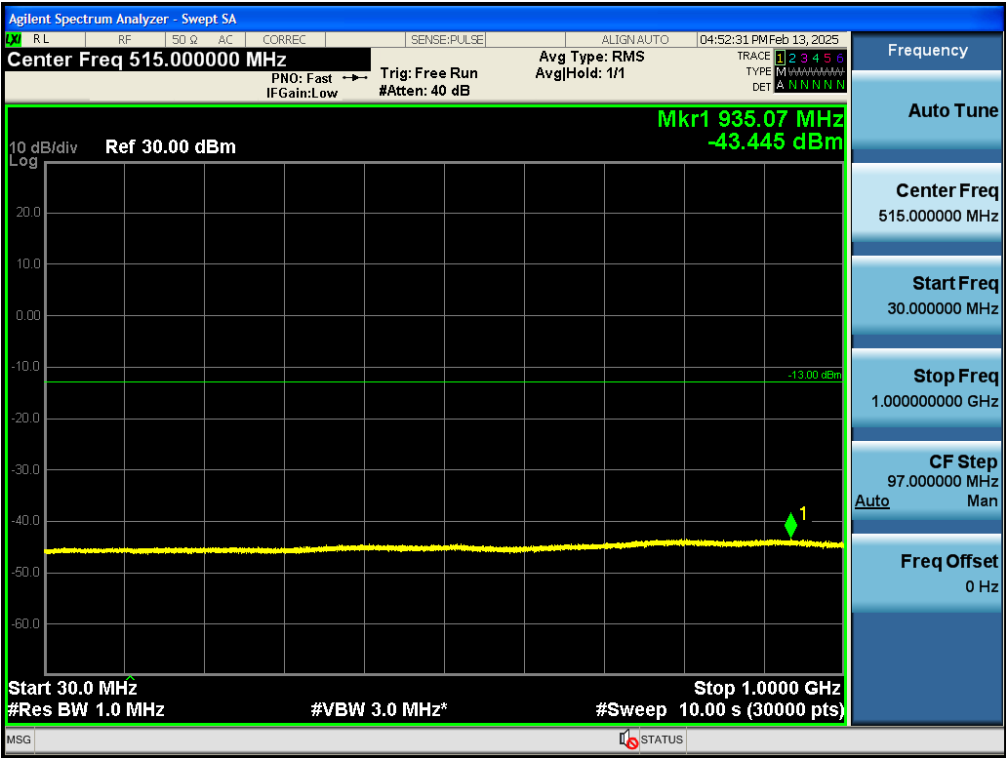
Test_Graph_band2_1880MHz_10M_QPSK_50RB#LOW_30M_1G_TX



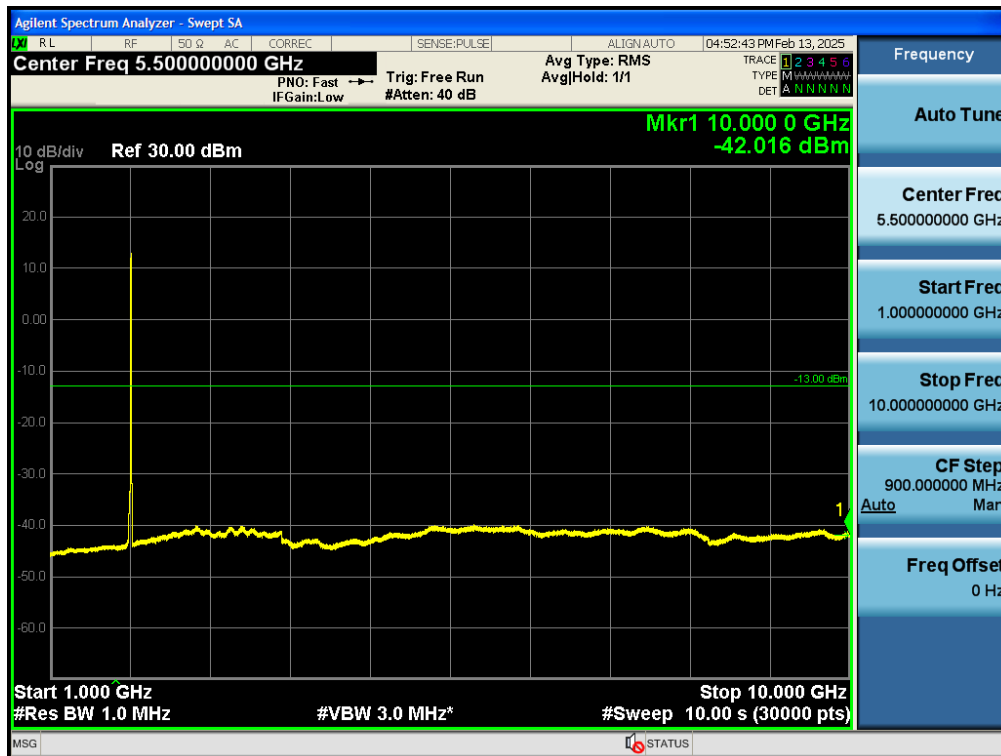
Test_Graph_band2_1880MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band2_1880MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



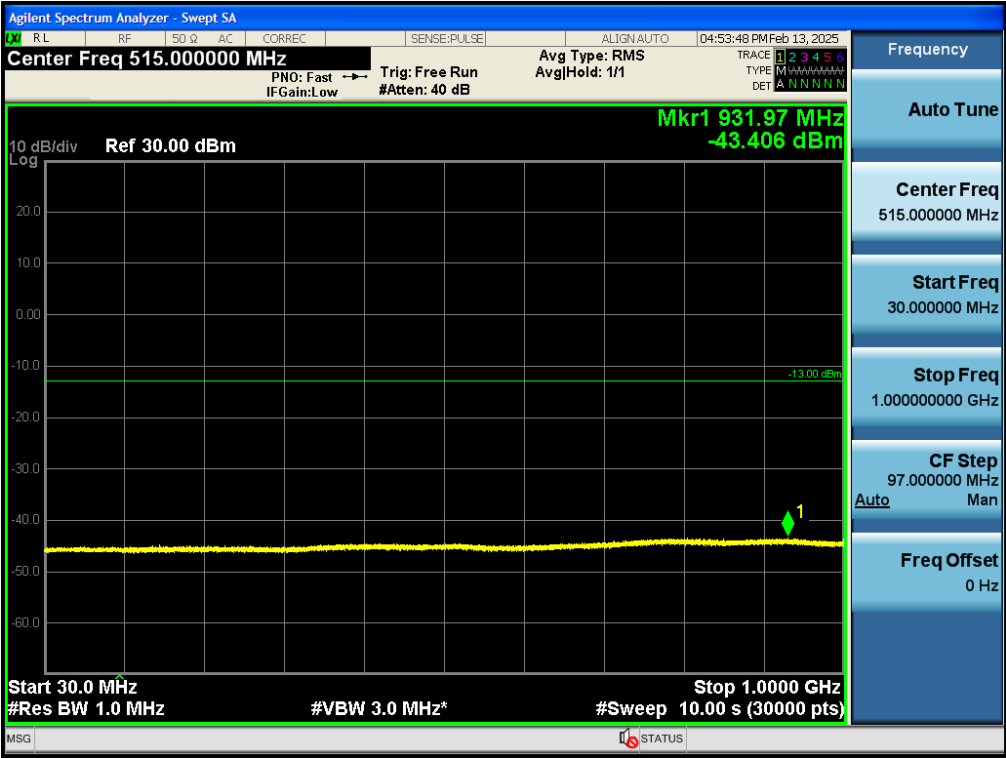
Test_Graph_band2_1905MHz_10M_QPSK_50RB#LOW_30M_1G_TX



Test_Graph_band2_1905MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band2_1905MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



Test_Graph_band2_1857.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



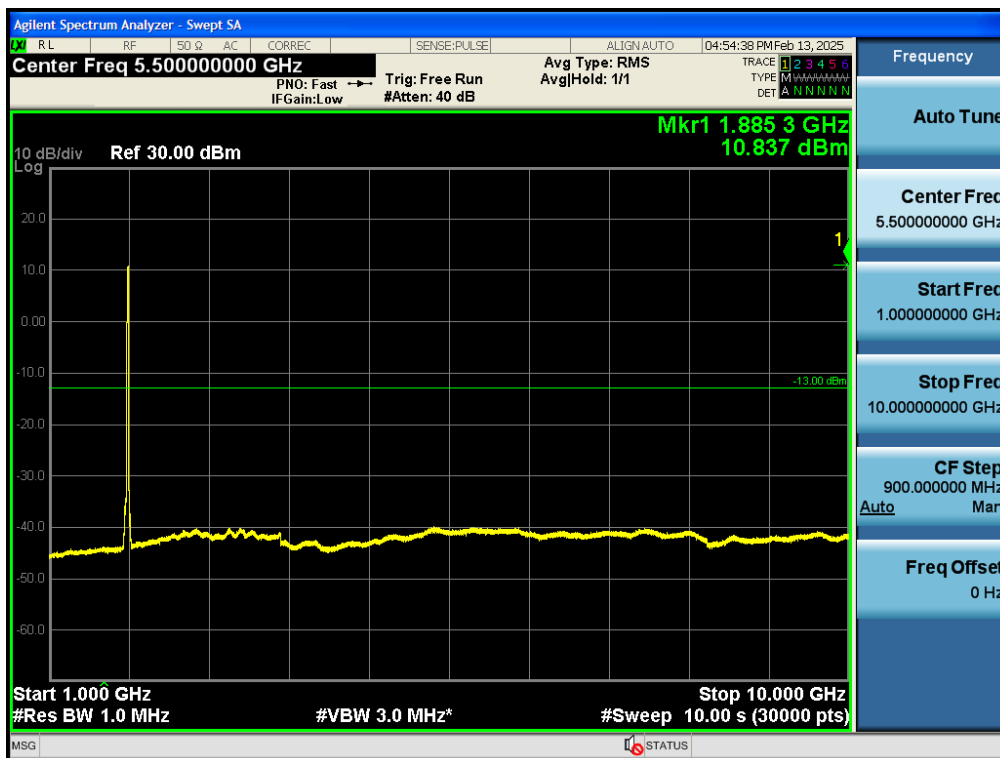
Test_Graph_band2_1857.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



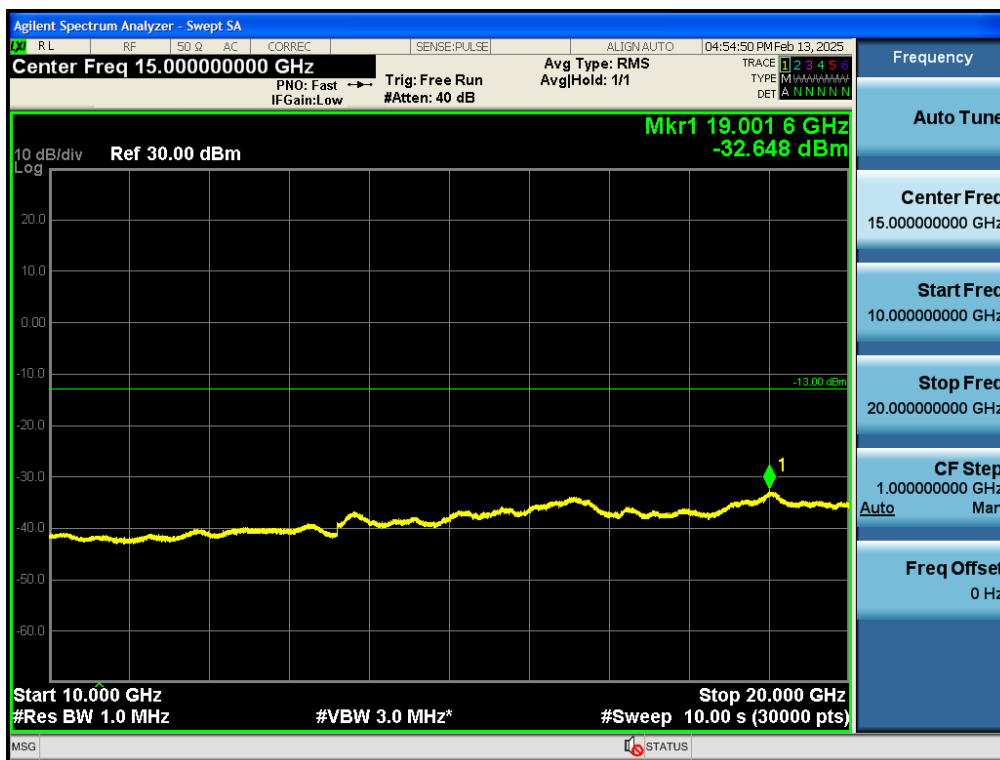
Test_Graph_band2_1857.5MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



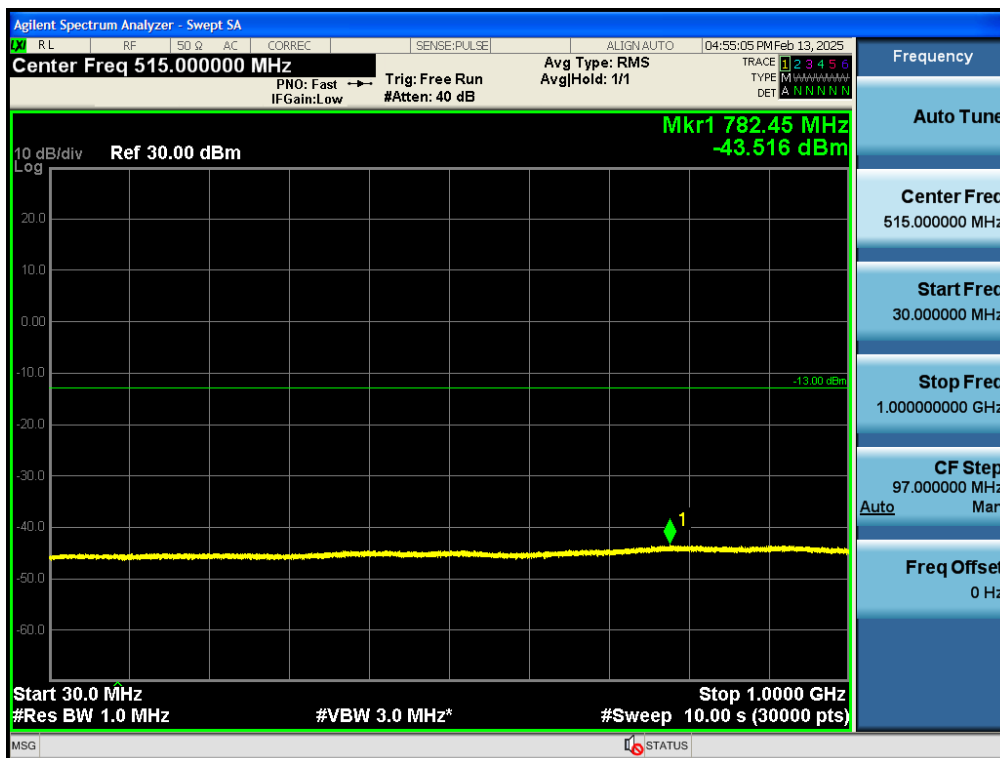
Test_Graph_band2_1880MHz_15M_QPSK_75RB#LOW_30M_1G_TX



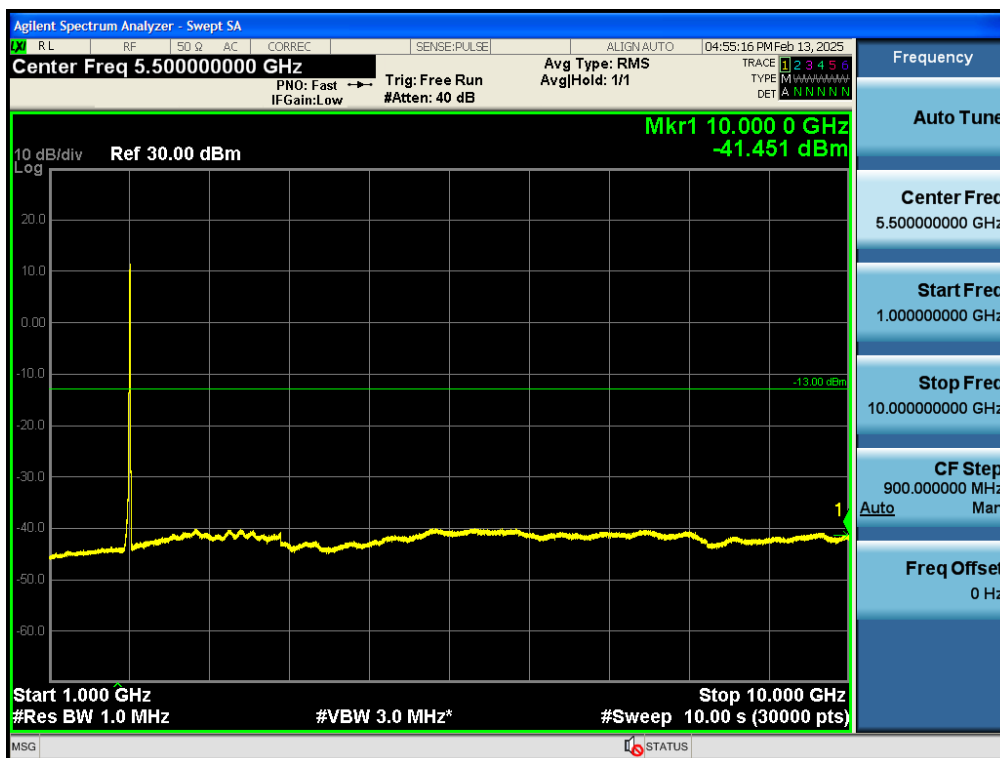
Test_Graph_band2_1880MHz_15M_QPSK_75RB#LOW_1G_10G_TX



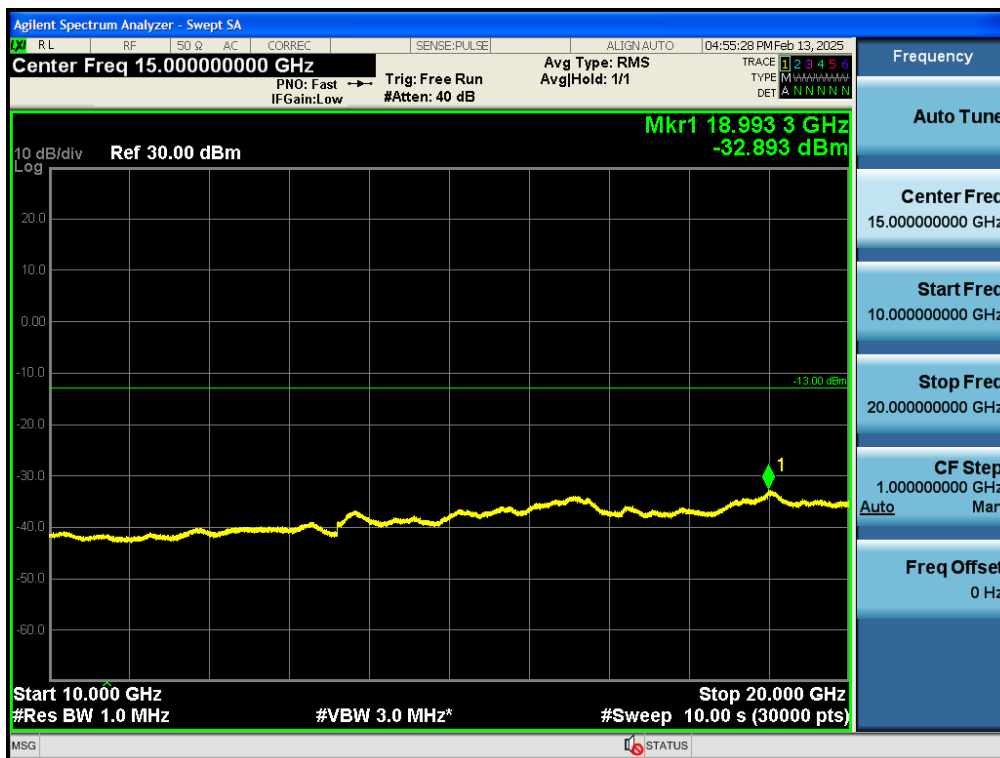
Test_Graph_band2_1880MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



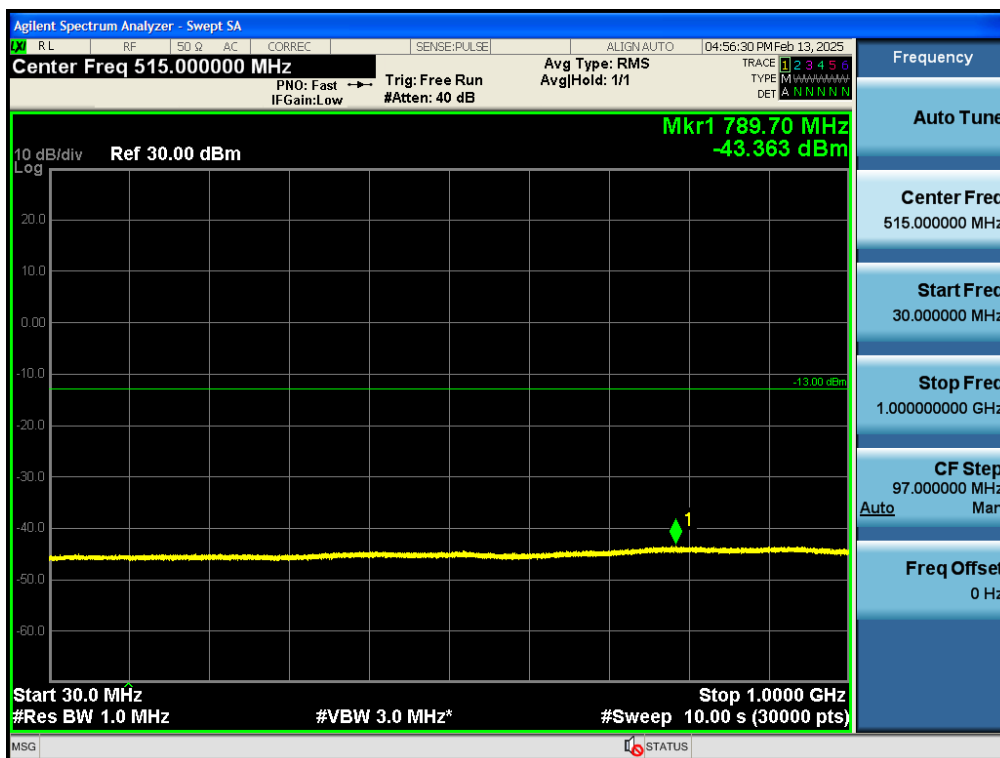
Test_Graph_band2_1902.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



Test_Graph_band2_1902.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



Test_Graph_band2_1902.5MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



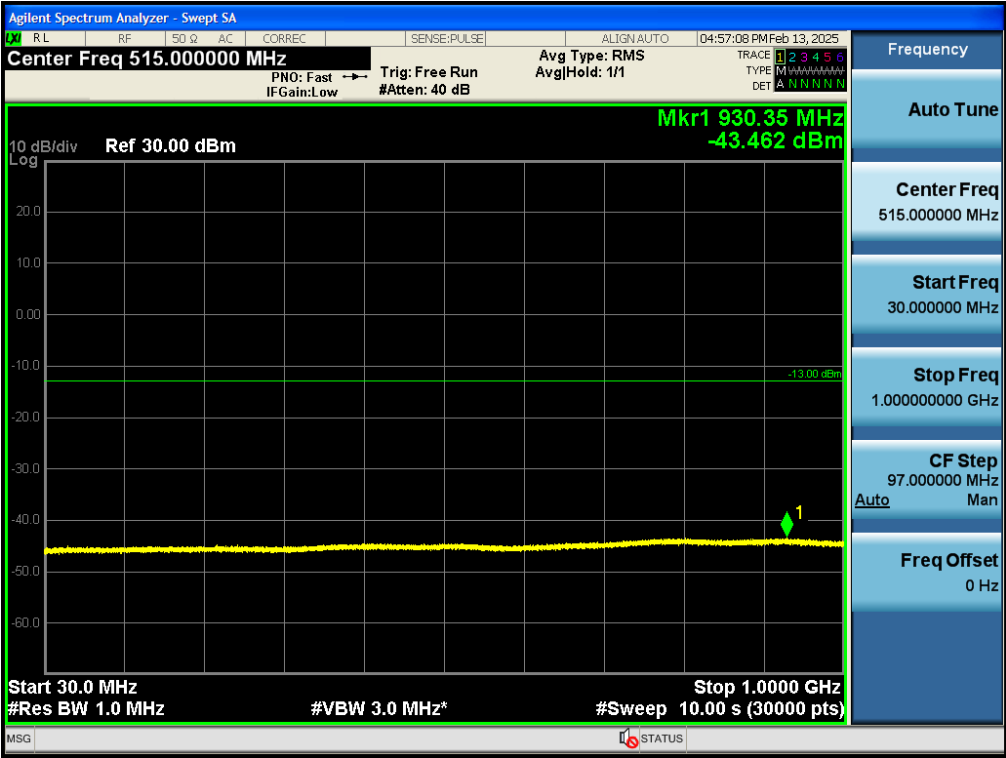
Test_Graph_band2_1860MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band2_1860MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band2_1860MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX



Test_Graph_band2_1880MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band2_1880MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band2_1880MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX



Test_Graph_band2_1900MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band2_1900MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band2_1900MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX

Appendix E: Frequency stability

Test Result

Test Conditions		LTE Band 2(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0702	PASS
40	Normal Voltage	0.0361	
30	Normal Voltage	0.0279	
20(Ref.)	Normal Voltage	0.0293	
10	Normal Voltage	0.0665	
0	Normal Voltage	0.0302	
-10	Normal Voltage	0.0438	
-20	Normal Voltage	0.0397	
-30	Normal Voltage	0.0290	
20	Maximum Voltage	0.0221	
20	Normal Voltage	0.0322	
20	Battery End Point	0.0680	