

Appendix Test Data for LTE band 4 (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
4	1.4	1710.7	QPSK	6	LOW	21.81	27.76	5.95	13	1.34	23.15	30	Pass
4	1.4	1710.7	QPSK	3	LOW	22.86	28.44	5.58	13	1.34	24.20	30	Pass
4	1.4	1710.7	QPSK	3	MID	22.93	28.52	5.58	13	1.34	24.27	30	Pass
4	1.4	1710.7	QPSK	3	HIGH	22.86	28.39	5.53	13	1.34	24.20	30	Pass
4	1.4	1710.7	QPSK	1	LOW	22.72	27.55	4.84	13	1.34	24.06	30	Pass
4	1.4	1710.7	QPSK	1	MID	22.92	27.69	4.77	13	1.34	24.26	30	Pass
4	1.4	1710.7	QPSK	1	HIGH	22.71	27.56	4.86	13	1.34	24.05	30	Pass
4	1.4	1710.7	16QAM	6	LOW	20.82	27.77	6.95	13	1.34	22.16	30	Pass
4	1.4	1710.7	16QAM	3	LOW	22.00	28.09	6.09	13	1.34	23.34	30	Pass
4	1.4	1710.7	16QAM	3	MID	22.06	28.15	6.10	13	1.34	23.40	30	Pass
4	1.4	1710.7	16QAM	3	HIGH	22.02	28.02	6.00	13	1.34	23.36	30	Pass
4	1.4	1710.7	16QAM	1	LOW	21.83	27.34	5.51	13	1.34	23.17	30	Pass
4	1.4	1710.7	16QAM	1	MID	22.02	27.44	5.41	13	1.34	23.36	30	Pass
4	1.4	1710.7	16QAM	1	HIGH	21.81	27.23	5.42	13	1.34	23.15	30	Pass
4	1.4	1732.5	QPSK	6	LOW	21.64	27.46	5.82	13	1.34	22.98	30	Pass
4	1.4	1732.5	QPSK	3	LOW	22.68	27.61	4.93	13	1.34	24.02	30	Pass
4	1.4	1732.5	QPSK	3	MID	22.67	27.61	4.94	13	1.34	24.01	30	Pass
4	1.4	1732.5	QPSK	3	HIGH	22.67	27.61	4.94	13	1.34	24.01	30	Pass
4	1.4	1732.5	QPSK	1	LOW	22.61	27.45	4.84	13	1.34	23.95	30	Pass
4	1.4	1732.5	QPSK	1	MID	22.75	27.54	4.79	13	1.34	24.09	30	Pass
4	1.4	1732.5	QPSK	1	HIGH	22.52	27.49	4.97	13	1.34	23.86	30	Pass
4	1.4	1732.5	16QAM	6	LOW	20.70	27.47	6.77	13	1.34	22.04	30	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
4	1.4	1732.5	16QAM	3	LOW	21.90	27.44	5.54	13	1.34	23.24	30	Pass
4	1.4	1732.5	16QAM	3	MID	21.87	27.43	5.56	13	1.34	23.21	30	Pass
4	1.4	1732.5	16QAM	3	HIGH	21.88	27.51	5.63	13	1.34	23.22	30	Pass
4	1.4	1732.5	16QAM	1	LOW	21.59	26.98	5.39	13	1.34	22.93	30	Pass
4	1.4	1732.5	16QAM	1	MID	21.76	27.09	5.33	13	1.34	23.10	30	Pass
4	1.4	1732.5	16QAM	1	HIGH	21.59	27.01	5.42	13	1.34	22.93	30	Pass
4	1.4	1754.3	QPSK	6	LOW	21.60	26.99	5.39	13	1.34	22.94	30	Pass
4	1.4	1754.3	QPSK	3	LOW	22.61	27.20	4.59	13	1.34	23.95	30	Pass
4	1.4	1754.3	QPSK	3	MID	22.65	27.20	4.55	13	1.34	23.99	30	Pass
4	1.4	1754.3	QPSK	3	HIGH	22.61	27.12	4.51	13	1.34	23.95	30	Pass
4	1.4	1754.3	QPSK	1	LOW	22.53	26.94	4.41	13	1.34	23.87	30	Pass
4	1.4	1754.3	QPSK	1	MID	22.71	26.95	4.24	13	1.34	24.05	30	Pass
4	1.4	1754.3	QPSK	1	HIGH	22.53	26.84	4.31	13	1.34	23.87	30	Pass
4	1.4	1754.3	16QAM	6	LOW	20.67	26.84	6.17	13	1.34	22.01	30	Pass
4	1.4	1754.3	16QAM	3	LOW	21.55	27.16	5.60	13	1.34	22.89	30	Pass
4	1.4	1754.3	16QAM	3	MID	21.54	27.15	5.61	13	1.34	22.88	30	Pass
4	1.4	1754.3	16QAM	3	HIGH	21.60	27.07	5.47	13	1.34	22.94	30	Pass
4	1.4	1754.3	16QAM	1	LOW	21.66	26.27	4.61	13	1.34	23.00	30	Pass
4	1.4	1754.3	16QAM	1	MID	21.87	26.36	4.49	13	1.34	23.21	30	Pass
4	1.4	1754.3	16QAM	1	HIGH	21.66	26.21	4.55	13	1.34	23.00	30	Pass
4	3	1711.5	QPSK	15	LOW	21.79	28.16	6.37	13	1.34	23.13	30	Pass
4	3	1711.5	QPSK	8	LOW	21.83	27.85	6.03	13	1.34	23.17	30	Pass
4	3	1711.5	QPSK	8	MID	21.80	27.85	6.04	13	1.34	23.14	30	Pass
4	3	1711.5	QPSK	8	HIGH	21.81	27.79	5.98	13	1.34	23.15	30	Pass
4	3	1711.5	QPSK	1	LOW	22.83	27.62	4.79	13	1.34	24.17	30	Pass
4	3	1711.5	QPSK	1	MID	22.80	27.63	4.83	13	1.34	24.14	30	Pass
4	3	1711.5	QPSK	1	HIGH	22.77	27.57	4.81	13	1.34	24.11	30	Pass
4	3	1711.5	16QAM	15	LOW	20.94	27.91	6.97	13	1.34	22.28	30	Pass
4	3	1711.5	16QAM	8	LOW	20.94	27.63	6.69	13	1.34	22.28	30	Pass
4	3	1711.5	16QAM	8	MID	20.95	27.63	6.68	13	1.34	22.29	30	Pass
4	3	1711.5	16QAM	8	HIGH	20.95	27.62	6.66	13	1.34	22.29	30	Pass
4	3	1711.5	16QAM	1	LOW	21.92	27.37	5.45	13	1.34	23.26	30	Pass
4	3	1711.5	16QAM	1	MID	21.85	27.30	5.45	13	1.34	23.19	30	Pass
4	3	1711.5	16QAM	1	HIGH	21.86	27.31	5.45	13	1.34	23.20	30	Pass
4	3	1732.5	QPSK	15	LOW	21.65	27.60	5.95	13	1.34	22.99	30	Pass
4	3	1732.5	QPSK	8	LOW	21.61	27.28	5.67	13	1.34	22.95	30	Pass
4	3	1732.5	QPSK	8	MID	21.62	27.29	5.67	13	1.34	22.96	30	Pass
4	3	1732.5	QPSK	8	HIGH	21.60	27.29	5.69	13	1.34	22.94	30	Pass
4	3	1732.5	QPSK	1	LOW	22.64	26.97	4.33	13	1.34	23.98	30	Pass
4	3	1732.5	QPSK	1	MID	22.54	27.01	4.47	13	1.34	23.88	30	Pass
4	3	1732.5	QPSK	1	HIGH	22.54	27.07	4.53	13	1.34	23.88	30	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
4	3	1732.5	16QAM	15	LOW	20.80	27.63	6.84	13	1.34	22.14	30	Pass
4	3	1732.5	16QAM	8	LOW	20.84	27.33	6.49	13	1.34	22.18	30	Pass
4	3	1732.5	16QAM	8	MID	20.85	27.32	6.46	13	1.34	22.19	30	Pass
4	3	1732.5	16QAM	8	HIGH	20.85	27.33	6.48	13	1.34	22.19	30	Pass
4	3	1732.5	16QAM	1	LOW	22.19	27.35	5.17	13	1.34	23.53	30	Pass
4	3	1732.5	16QAM	1	MID	22.19	27.45	5.27	13	1.34	23.53	30	Pass
4	3	1732.5	16QAM	1	HIGH	22.16	27.51	5.35	13	1.34	23.50	30	Pass
4	3	1753.5	QPSK	15	LOW	21.58	27.44	5.85	13	1.34	22.92	30	Pass
4	3	1753.5	QPSK	8	LOW	21.58	27.29	5.70	13	1.34	22.92	30	Pass
4	3	1753.5	QPSK	8	MID	21.59	27.28	5.69	13	1.34	22.93	30	Pass
4	3	1753.5	QPSK	8	HIGH	21.56	27.18	5.62	13	1.34	22.90	30	Pass
4	3	1753.5	QPSK	1	LOW	22.59	27.12	4.53	13	1.34	23.93	30	Pass
4	3	1753.5	QPSK	1	MID	22.60	26.99	4.39	13	1.34	23.94	30	Pass
4	3	1753.5	QPSK	1	HIGH	22.56	26.86	4.30	13	1.34	23.90	30	Pass
4	3	1753.5	16QAM	15	LOW	20.58	26.91	6.32	13	1.34	21.92	30	Pass
4	3	1753.5	16QAM	8	LOW	20.62	26.88	6.26	13	1.34	21.96	30	Pass
4	3	1753.5	16QAM	8	MID	20.62	26.87	6.25	13	1.34	21.96	30	Pass
4	3	1753.5	16QAM	8	HIGH	20.60	26.79	6.20	13	1.34	21.94	30	Pass
4	3	1753.5	16QAM	1	LOW	21.72	26.43	4.71	13	1.34	23.06	30	Pass
4	3	1753.5	16QAM	1	MID	21.74	26.35	4.62	13	1.34	23.08	30	Pass
4	3	1753.5	16QAM	1	HIGH	21.68	26.23	4.55	13	1.34	23.02	30	Pass
4	5	1712.5	QPSK	25	LOW	21.78	28.19	6.41	13	1.34	23.12	30	Pass
4	5	1712.5	QPSK	12	LOW	21.74	27.67	5.93	13	1.34	23.08	30	Pass
4	5	1712.5	QPSK	12	MID	21.75	27.68	5.94	13	1.34	23.09	30	Pass
4	5	1712.5	QPSK	12	HIGH	21.76	27.65	5.89	13	1.34	23.10	30	Pass
4	5	1712.5	QPSK	1	LOW	22.71	27.86	5.14	13	1.34	24.05	30	Pass
4	5	1712.5	QPSK	1	MID	22.83	27.85	5.02	13	1.34	24.17	30	Pass
4	5	1712.5	QPSK	1	HIGH	22.73	27.69	4.97	13	1.34	24.07	30	Pass
4	5	1712.5	16QAM	25	LOW	20.88	28.10	7.22	13	1.34	22.22	30	Pass
4	5	1712.5	16QAM	12	LOW	20.75	27.83	7.08	13	1.34	22.09	30	Pass
4	5	1712.5	16QAM	12	MID	20.73	27.76	7.04	13	1.34	22.07	30	Pass
4	5	1712.5	16QAM	12	HIGH	20.79	27.79	6.99	13	1.34	22.13	30	Pass
4	5	1712.5	16QAM	1	LOW	21.83	27.84	6.01	13	1.34	23.17	30	Pass
4	5	1712.5	16QAM	1	MID	21.93	27.82	5.89	13	1.34	23.27	30	Pass
4	5	1712.5	16QAM	1	HIGH	21.76	27.63	5.86	13	1.34	23.10	30	Pass
4	5	1732.5	QPSK	25	LOW	21.60	27.49	5.89	13	1.34	22.94	30	Pass
4	5	1732.5	QPSK	12	LOW	21.60	27.11	5.51	13	1.34	22.94	30	Pass
4	5	1732.5	QPSK	12	MID	21.59	27.11	5.51	13	1.34	22.93	30	Pass
4	5	1732.5	QPSK	12	HIGH	21.57	27.17	5.59	13	1.34	22.91	30	Pass
4	5	1732.5	QPSK	1	LOW	22.52	27.31	4.80	13	1.34	23.86	30	Pass
4	5	1732.5	QPSK	1	MID	22.64	27.51	4.87	13	1.34	23.98	30	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
4	5	1732.5	QPSK	1	HIGH	22.52	27.58	5.07	13	1.34	23.86	30	Pass
4	5	1732.5	16QAM	25	LOW	20.72	27.89	7.17	13	1.34	22.06	30	Pass
4	5	1732.5	16QAM	12	LOW	20.67	27.48	6.81	13	1.34	22.01	30	Pass
4	5	1732.5	16QAM	12	MID	20.65	27.48	6.82	13	1.34	21.99	30	Pass
4	5	1732.5	16QAM	12	HIGH	20.60	27.56	6.96	13	1.34	21.94	30	Pass
4	5	1732.5	16QAM	1	LOW	21.43	26.59	5.15	13	1.34	22.77	30	Pass
4	5	1732.5	16QAM	1	MID	21.52	26.74	5.22	13	1.34	22.86	30	Pass
4	5	1732.5	16QAM	1	HIGH	21.44	26.77	5.33	13	1.34	22.78	30	Pass
4	5	1752.5	QPSK	25	LOW	21.54	27.87	6.33	13	1.34	22.88	30	Pass
4	5	1752.5	QPSK	12	LOW	21.55	27.41	5.85	13	1.34	22.89	30	Pass
4	5	1752.5	QPSK	12	MID	21.55	27.41	5.85	13	1.34	22.89	30	Pass
4	5	1752.5	QPSK	12	HIGH	21.56	27.20	5.64	13	1.34	22.90	30	Pass
4	5	1752.5	QPSK	1	LOW	22.50	27.29	4.80	13	1.34	23.84	30	Pass
4	5	1752.5	QPSK	1	MID	22.64	27.12	4.48	13	1.34	23.98	30	Pass
4	5	1752.5	QPSK	1	HIGH	22.50	26.86	4.36	13	1.34	23.84	30	Pass
4	5	1752.5	16QAM	25	LOW	20.60	27.56	6.96	13	1.34	21.94	30	Pass
4	5	1752.5	16QAM	12	LOW	20.63	27.17	6.53	13	1.34	21.97	30	Pass
4	5	1752.5	16QAM	12	MID	20.63	27.17	6.54	13	1.34	21.97	30	Pass
4	5	1752.5	16QAM	12	HIGH	20.61	27.02	6.41	13	1.34	21.95	30	Pass
4	5	1752.5	16QAM	1	LOW	21.79	27.12	5.33	13	1.34	23.13	30	Pass
4	5	1752.5	16QAM	1	MID	21.91	26.97	5.06	13	1.34	23.25	30	Pass
4	5	1752.5	16QAM	1	HIGH	21.76	26.72	4.96	13	1.34	23.10	30	Pass
4	10	1715	QPSK	50	LOW	21.79	28.05	6.26	13	1.34	23.13	30	Pass
4	10	1715	QPSK	25	LOW	21.70	28.40	6.70	13	1.34	23.04	30	Pass
4	10	1715	QPSK	25	MID	21.73	28.40	6.67	13	1.34	23.07	30	Pass
4	10	1715	QPSK	25	HIGH	21.74	28.16	6.42	13	1.34	23.08	30	Pass
4	10	1715	QPSK	1	LOW	22.80	27.70	4.90	13	1.34	24.14	30	Pass
4	10	1715	QPSK	1	MID	22.87	27.50	4.63	13	1.34	24.21	30	Pass
4	10	1715	QPSK	1	HIGH	22.67	27.14	4.47	13	1.34	24.01	30	Pass
4	10	1715	16QAM	50	LOW	20.86	28.25	7.39	13	1.34	22.20	30	Pass
4	10	1715	16QAM	25	LOW	20.88	28.15	7.27	13	1.34	22.22	30	Pass
4	10	1715	16QAM	25	MID	20.90	28.16	7.26	13	1.34	22.24	30	Pass
4	10	1715	16QAM	25	HIGH	20.89	27.94	7.04	13	1.34	22.23	30	Pass
4	10	1715	16QAM	1	LOW	21.83	27.36	5.53	13	1.34	23.17	30	Pass
4	10	1715	16QAM	1	MID	21.93	27.23	5.29	13	1.34	23.27	30	Pass
4	10	1715	16QAM	1	HIGH	21.67	26.83	5.16	13	1.34	23.01	30	Pass
4	10	1732.5	QPSK	50	LOW	21.66	27.62	5.96	13	1.34	23.00	30	Pass
4	10	1732.5	QPSK	25	LOW	21.65	27.48	5.83	13	1.34	22.99	30	Pass
4	10	1732.5	QPSK	25	MID	21.64	27.47	5.82	13	1.34	22.98	30	Pass
4	10	1732.5	QPSK	25	HIGH	21.62	27.70	6.09	13	1.34	22.96	30	Pass
4	10	1732.5	QPSK	1	LOW	22.64	26.91	4.27	13	1.34	23.98	30	Pass

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4	10	1732.5	QPSK	1	MID	22.77	27.11	4.35	13	1.34	24.11	30	Pass
4	10	1732.5	QPSK	1	HIGH	22.80	27.43	4.63	13	1.34	24.14	30	Pass
4	10	1732.5	16QAM	50	LOW	20.76	27.78	7.02	13	1.34	22.10	30	Pass
4	10	1732.5	16QAM	25	LOW	20.81	27.48	6.68	13	1.34	22.15	30	Pass
4	10	1732.5	16QAM	25	MID	20.80	27.45	6.66	13	1.34	22.14	30	Pass
4	10	1732.5	16QAM	25	HIGH	20.73	27.61	6.88	13	1.34	22.07	30	Pass
4	10	1732.5	16QAM	1	LOW	22.19	27.25	5.07	13	1.34	23.53	30	Pass
4	10	1732.5	16QAM	1	MID	22.35	27.49	5.14	13	1.34	23.69	30	Pass
4	10	1732.5	16QAM	1	HIGH	22.33	27.84	5.51	13	1.34	23.67	30	Pass
4	10	1750	QPSK	50	LOW	21.64	27.70	6.06	13	1.34	22.98	30	Pass
4	10	1750	QPSK	25	LOW	21.64	27.73	6.09	13	1.34	22.98	30	Pass
4	10	1750	QPSK	25	MID	21.63	27.74	6.11	13	1.34	22.97	30	Pass
4	10	1750	QPSK	25	HIGH	21.56	27.34	5.79	13	1.34	22.90	30	Pass
4	10	1750	QPSK	1	LOW	22.57	27.66	5.09	13	1.34	23.91	30	Pass
4	10	1750	QPSK	1	MID	22.72	27.42	4.70	13	1.34	24.06	30	Pass
4	10	1750	QPSK	1	HIGH	22.60	26.94	4.34	13	1.34	23.94	30	Pass
4	10	1750	16QAM	50	LOW	20.69	27.42	6.73	13	1.34	22.03	30	Pass
4	10	1750	16QAM	25	LOW	20.74	27.86	7.12	13	1.34	22.08	30	Pass
4	10	1750	16QAM	25	MID	20.75	27.91	7.16	13	1.34	22.09	30	Pass
4	10	1750	16QAM	25	HIGH	20.69	27.52	6.83	13	1.34	22.03	30	Pass
4	10	1750	16QAM	1	LOW	21.70	26.74	5.04	13	1.34	23.04	30	Pass
4	10	1750	16QAM	1	MID	21.90	26.67	4.77	13	1.34	23.24	30	Pass
4	10	1750	16QAM	1	HIGH	21.70	26.27	4.57	13	1.34	23.04	30	Pass
4	15	1717.5	QPSK	75	LOW	21.76	28.16	6.40	13	1.34	23.10	30	Pass
4	15	1717.5	QPSK	38	LOW	21.76	28.15	6.40	13	1.34	23.10	30	Pass
4	15	1717.5	QPSK	38	MID	21.76	28.17	6.41	13	1.34	23.10	30	Pass
4	15	1717.5	QPSK	38	HIGH	21.77	28.18	6.40	13	1.34	23.11	30	Pass
4	15	1717.5	QPSK	1	LOW	22.69	27.38	4.68	13	1.34	24.03	30	Pass
4	15	1717.5	QPSK	1	MID	22.69	27.04	4.35	13	1.34	24.03	30	Pass
4	15	1717.5	QPSK	1	HIGH	22.49	26.65	4.16	13	1.34	23.83	30	Pass
4	15	1717.5	16QAM	75	LOW	20.77	27.99	7.22	13	1.34	22.11	30	Pass
4	15	1717.5	16QAM	38	LOW	20.77	27.98	7.21	13	1.34	22.11	30	Pass
4	15	1717.5	16QAM	38	MID	20.78	27.92	7.15	13	1.34	22.12	30	Pass
4	15	1717.5	16QAM	38	HIGH	20.78	27.95	7.17	13	1.34	22.12	30	Pass
4	15	1717.5	16QAM	1	LOW	22.18	27.38	5.20	13	1.34	23.52	30	Pass
4	15	1717.5	16QAM	1	MID	22.17	27.05	4.88	13	1.34	23.51	30	Pass
4	15	1717.5	16QAM	1	HIGH	22.03	26.69	4.66	13	1.34	23.37	30	Pass
4	15	1732.5	QPSK	75	LOW	21.71	28.25	6.54	13	1.34	23.05	30	Pass
4	15	1732.5	QPSK	38	LOW	21.67	28.26	6.59	13	1.34	23.01	30	Pass
4	15	1732.5	QPSK	38	MID	21.68	28.28	6.60	13	1.34	23.02	30	Pass
4	15	1732.5	QPSK	38	HIGH	21.57	27.69	6.12	13	1.34	22.91	30	Pass

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
4	15	1732.5	QPSK	1	LOW	22.52	26.84	4.32	13	1.34	23.86	30	Pass
4	15	1732.5	QPSK	1	MID	22.65	27.08	4.43	13	1.34	23.99	30	Pass
4	15	1732.5	QPSK	1	HIGH	22.43	27.27	4.84	13	1.34	23.77	30	Pass
4	15	1732.5	16QAM	75	LOW	20.73	27.70	6.97	13	1.34	22.07	30	Pass
4	15	1732.5	16QAM	38	LOW	20.72	27.70	6.98	13	1.34	22.06	30	Pass
4	15	1732.5	16QAM	38	MID	20.74	27.81	7.06	13	1.34	22.08	30	Pass
4	15	1732.5	16QAM	38	HIGH	20.71	27.86	7.15	13	1.34	22.05	30	Pass
4	15	1732.5	16QAM	1	LOW	22.14	27.22	5.08	13	1.34	23.48	30	Pass
4	15	1732.5	16QAM	1	MID	22.23	27.48	5.25	13	1.34	23.57	30	Pass
4	15	1732.5	16QAM	1	HIGH	22.09	27.86	5.77	13	1.34	23.43	30	Pass
4	15	1747.5	QPSK	75	LOW	21.62	28.16	6.54	13	1.34	22.96	30	Pass
4	15	1747.5	QPSK	38	LOW	21.65	28.14	6.49	13	1.34	22.99	30	Pass
4	15	1747.5	QPSK	38	MID	21.62	28.07	6.45	13	1.34	22.96	30	Pass
4	15	1747.5	QPSK	38	HIGH	21.64	28.10	6.47	13	1.34	22.98	30	Pass
4	15	1747.5	QPSK	1	LOW	22.50	27.62	5.12	13	1.34	23.84	30	Pass
4	15	1747.5	QPSK	1	MID	22.67	27.61	4.94	13	1.34	24.01	30	Pass
4	15	1747.5	QPSK	1	HIGH	22.49	26.92	4.44	13	1.34	23.83	30	Pass
4	15	1747.5	16QAM	75	LOW	20.66	27.87	7.21	13	1.34	22.00	30	Pass
4	15	1747.5	16QAM	38	LOW	20.67	27.88	7.22	13	1.34	22.01	30	Pass
4	15	1747.5	16QAM	38	MID	20.67	27.89	7.23	13	1.34	22.01	30	Pass
4	15	1747.5	16QAM	38	HIGH	20.68	27.96	7.28	13	1.34	22.02	30	Pass
4	15	1747.5	16QAM	1	LOW	21.66	26.70	5.04	13	1.34	23.00	30	Pass
4	15	1747.5	16QAM	1	MID	21.82	26.76	4.94	13	1.34	23.16	30	Pass
4	15	1747.5	16QAM	1	HIGH	21.62	26.25	4.63	13	1.34	22.96	30	Pass
4	20	1720	QPSK	100	LOW	21.68	28.05	6.37	13	1.34	23.02	30	Pass
4	20	1720	QPSK	50	LOW	21.62	27.95	6.33	13	1.34	22.96	30	Pass
4	20	1720	QPSK	50	MID	21.64	27.96	6.32	13	1.34	22.98	30	Pass
4	20	1720	QPSK	50	HIGH	21.65	27.57	5.92	13	1.34	22.99	30	Pass
4	20	1720	QPSK	1	LOW	22.51	27.71	5.20	13	1.34	23.85	30	Pass
4	20	1720	QPSK	1	MID	22.87	27.34	4.47	13	1.34	24.21	30	Pass
4	20	1720	QPSK	1	HIGH	22.37	26.95	4.58	13	1.34	23.71	30	Pass
4	20	1720	16QAM	100	LOW	20.75	27.85	7.10	13	1.34	22.09	30	Pass
4	20	1720	16QAM	50	LOW	20.71	27.92	7.21	13	1.34	22.05	30	Pass
4	20	1720	16QAM	50	MID	20.73	27.96	7.23	13	1.34	22.07	30	Pass
4	20	1720	16QAM	50	HIGH	20.71	27.49	6.78	13	1.34	22.05	30	Pass
4	20	1720	16QAM	1	LOW	22.14	27.67	5.52	13	1.34	23.48	30	Pass
4	20	1720	16QAM	1	MID	22.45	27.28	4.83	13	1.34	23.79	30	Pass
4	20	1720	16QAM	1	HIGH	21.97	26.92	4.94	13	1.34	23.31	30	Pass
4	20	1732.5	QPSK	100	LOW	21.72	27.97	6.25	13	1.34	23.06	30	Pass
4	20	1732.5	QPSK	50	LOW	21.73	27.59	5.86	13	1.34	23.07	30	Pass
4	20	1732.5	QPSK	50	MID	21.69	27.55	5.86	13	1.34	23.03	30	Pass

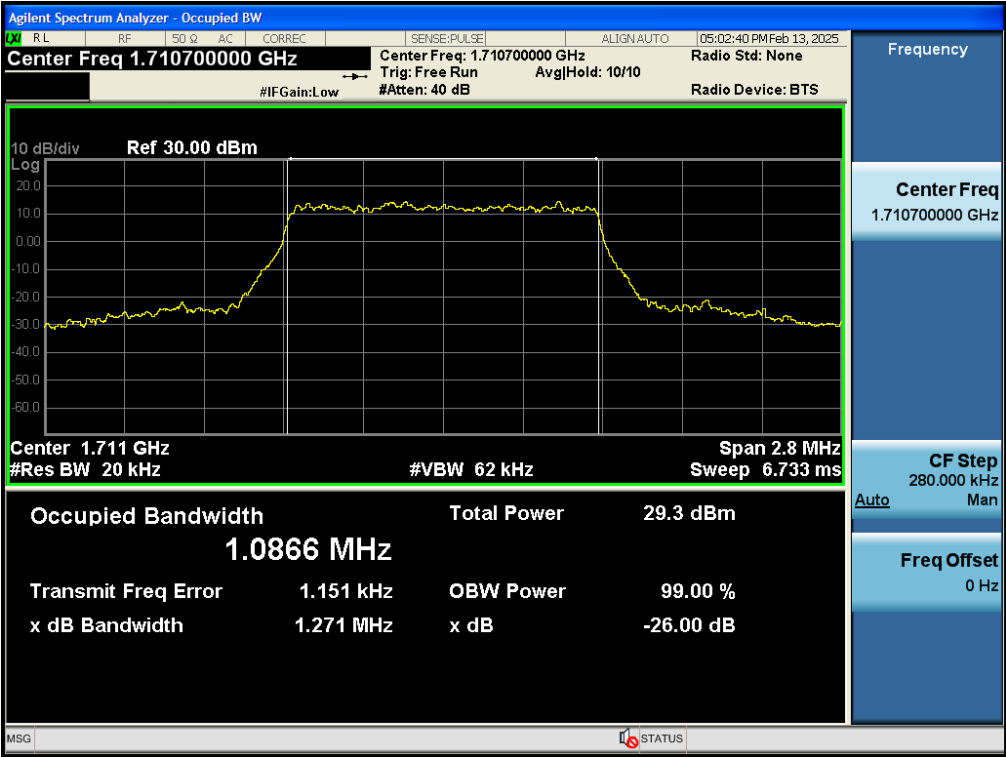
Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)	Peak Power (dBm)	PAR (dB)	Limit (dB)	AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Conclusion
4	20	1732.5	QPSK	50	HIGH	21.61	27.89	6.28	13	1.34	22.95	30	Pass
4	20	1732.5	QPSK	1	LOW	22.42	27.09	4.68	13	1.34	23.76	30	Pass
4	20	1732.5	QPSK	1	MID	22.82	27.37	4.55	13	1.34	24.16	30	Pass
4	20	1732.5	QPSK	1	HIGH	22.40	27.68	5.27	13	1.34	23.74	30	Pass
4	20	1732.5	16QAM	100	LOW	20.79	27.98	7.19	13	1.34	22.13	30	Pass
4	20	1732.5	16QAM	50	LOW	20.80	27.76	6.95	13	1.34	22.14	30	Pass
4	20	1732.5	16QAM	50	MID	20.79	27.67	6.87	13	1.34	22.13	30	Pass
4	20	1732.5	16QAM	50	HIGH	20.70	28.02	7.32	13	1.34	22.04	30	Pass
4	20	1732.5	16QAM	1	LOW	21.70	26.90	5.20	13	1.34	23.04	30	Pass
4	20	1732.5	16QAM	1	MID	22.14	27.20	5.06	13	1.34	23.48	30	Pass
4	20	1732.5	16QAM	1	HIGH	21.72	27.46	5.73	13	1.34	23.06	30	Pass
4	20	1745	QPSK	100	LOW	21.63	28.07	6.44	13	1.34	22.97	30	Pass
4	20	1745	QPSK	50	LOW	21.65	27.98	6.33	13	1.34	22.99	30	Pass
4	20	1745	QPSK	50	MID	21.63	27.95	6.32	13	1.34	22.97	30	Pass
4	20	1745	QPSK	50	HIGH	21.65	27.80	6.15	13	1.34	22.99	30	Pass
4	20	1745	QPSK	1	LOW	22.38	27.19	4.81	13	1.34	23.72	30	Pass
4	20	1745	QPSK	1	MID	22.81	27.61	4.81	13	1.34	24.15	30	Pass
4	20	1745	QPSK	1	HIGH	22.39	26.80	4.40	13	1.34	23.73	30	Pass
4	20	1745	16QAM	100	LOW	20.68	27.99	7.30	13	1.34	22.02	30	Pass
4	20	1745	16QAM	50	LOW	20.73	27.84	7.11	13	1.34	22.07	30	Pass
4	20	1745	16QAM	50	MID	20.70	27.82	7.12	13	1.34	22.04	30	Pass
4	20	1745	16QAM	50	HIGH	20.71	27.65	6.94	13	1.34	22.05	30	Pass
4	20	1745	16QAM	1	LOW	21.60	27.38	5.78	13	1.34	22.94	30	Pass
4	20	1745	16QAM	1	MID	22.04	27.84	5.80	13	1.34	23.38	30	Pass
4	20	1745	16QAM	1	HIGH	21.56	26.96	5.40	13	1.34	22.90	30	Pass

Appendix B: Occupied bandwidth

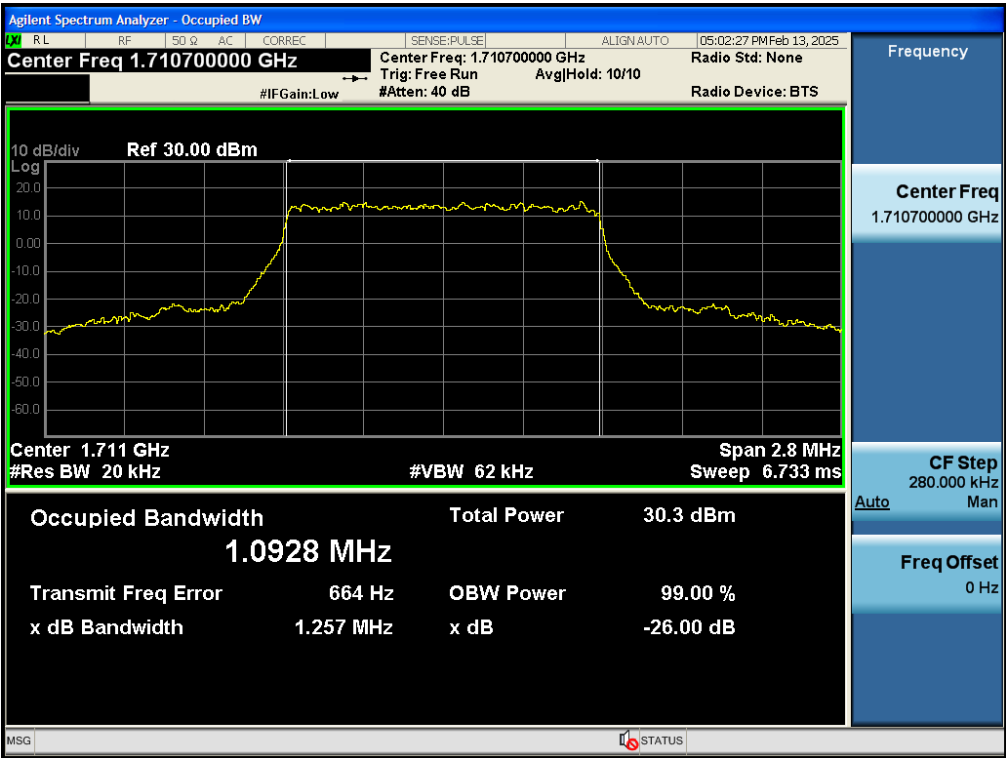
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth (MHz)	Emission Bandwidth (MHz)	Limit
4	1.4	1710.7	QPSK	6	LOW	1.093	1.257	No limit
4	1.4	1710.7	16QAM	6	LOW	1.087	1.271	No limit
4	1.4	1732.5	QPSK	6	LOW	1.083	1.252	No limit
4	1.4	1732.5	16QAM	6	LOW	1.088	1.285	No limit
4	1.4	1754.3	QPSK	6	LOW	1.086	1.285	No limit
4	1.4	1754.3	16QAM	6	LOW	1.081	1.247	No limit
4	3	1711.5	QPSK	15	LOW	2.682	2.866	No limit
4	3	1711.5	16QAM	15	LOW	2.676	2.872	No limit
4	3	1732.5	QPSK	15	LOW	2.678	2.854	No limit
4	3	1732.5	16QAM	15	LOW	2.678	2.858	No limit
4	3	1753.5	QPSK	15	LOW	2.686	2.862	No limit
4	3	1753.5	16QAM	15	LOW	2.678	2.859	No limit
4	5	1712.5	QPSK	25	LOW	4.466	4.846	No limit
4	5	1712.5	16QAM	25	LOW	4.469	4.852	No limit
4	5	1732.5	QPSK	25	LOW	4.482	4.845	No limit
4	5	1732.5	16QAM	25	LOW	4.467	4.781	No limit
4	5	1752.5	QPSK	25	LOW	4.485	4.817	No limit
4	5	1752.5	16QAM	25	LOW	4.48	4.852	No limit
4	10	1715	QPSK	50	LOW	8.945	9.598	No limit
4	10	1715	16QAM	50	LOW	8.945	9.58	No limit
4	10	1732.5	QPSK	50	LOW	8.96	9.618	No limit
4	10	1732.5	16QAM	50	LOW	8.949	9.522	No limit
4	10	1750	QPSK	50	LOW	8.946	9.554	No limit
4	10	1750	16QAM	50	LOW	8.953	9.581	No limit
4	15	1717.5	QPSK	75	LOW	13.408	14.419	No limit
4	15	1717.5	16QAM	75	LOW	13.426	14.281	No limit
4	15	1732.5	QPSK	75	LOW	13.424	14.374	No limit
4	15	1732.5	16QAM	75	LOW	13.415	14.337	No limit
4	15	1747.5	QPSK	75	LOW	13.396	14.306	No limit
4	15	1747.5	16QAM	75	LOW	13.407	14.3	No limit
4	20	1720	QPSK	100	LOW	17.913	19.303	No limit
4	20	1720	16QAM	100	LOW	17.863	18.982	No limit
4	20	1732.5	QPSK	100	LOW	17.883	18.965	No limit
4	20	1732.5	16QAM	100	LOW	17.927	19.041	No limit
4	20	1745	QPSK	100	LOW	17.883	18.983	No limit
4	20	1745	16QAM	100	LOW	17.898	19.022	No limit

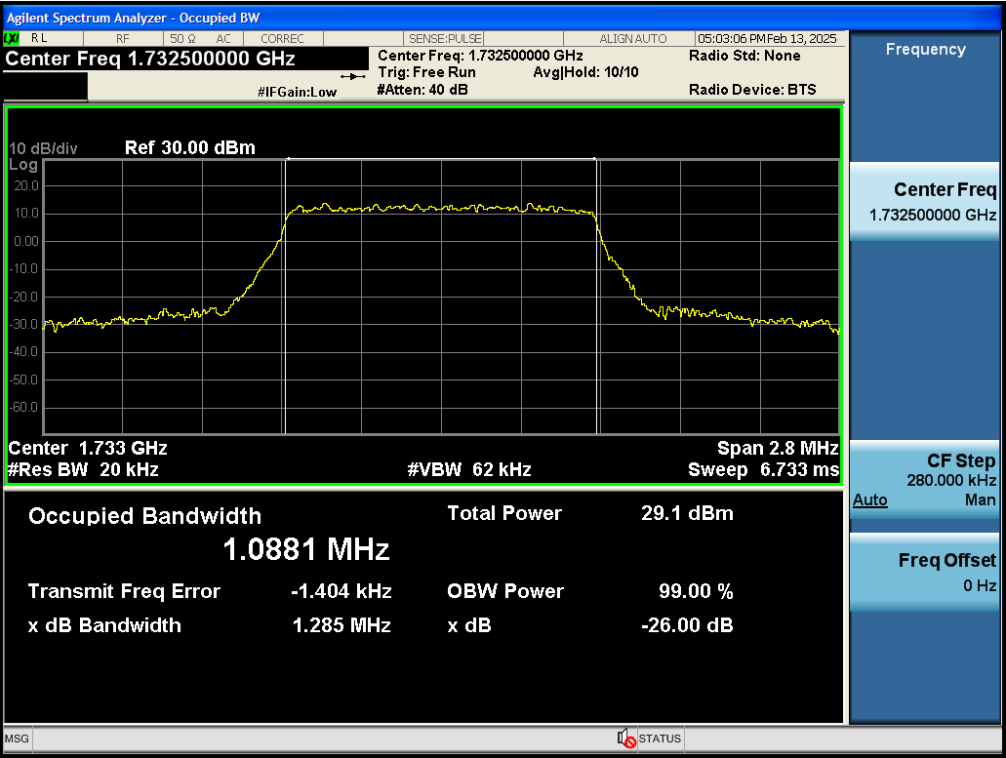
Test Graphs



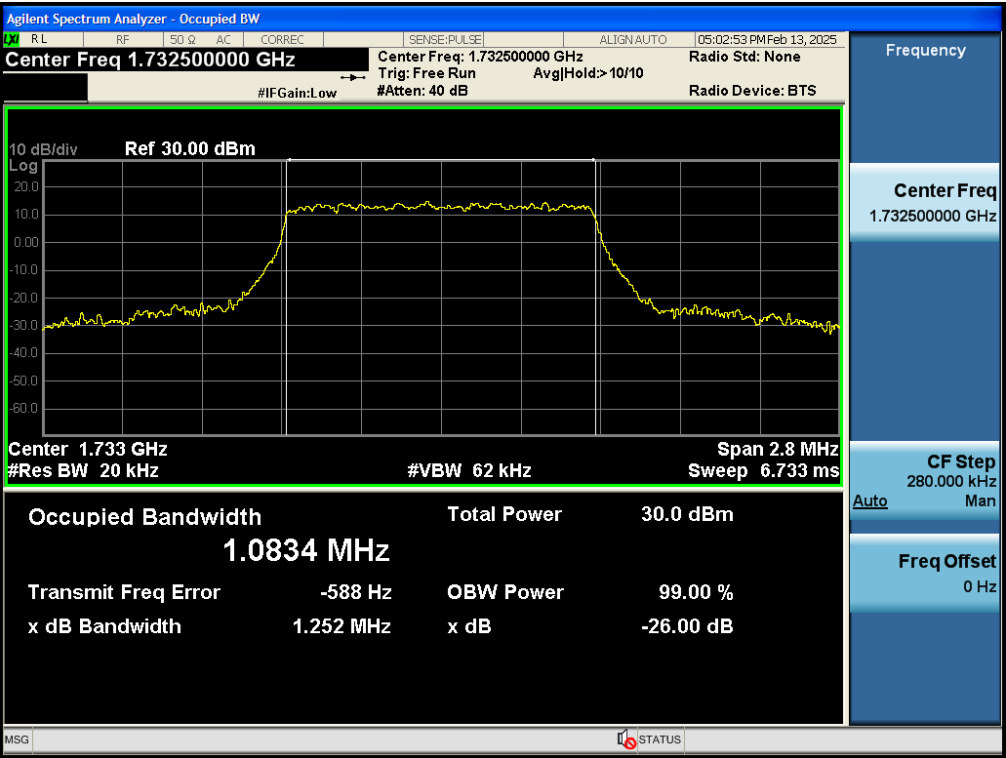
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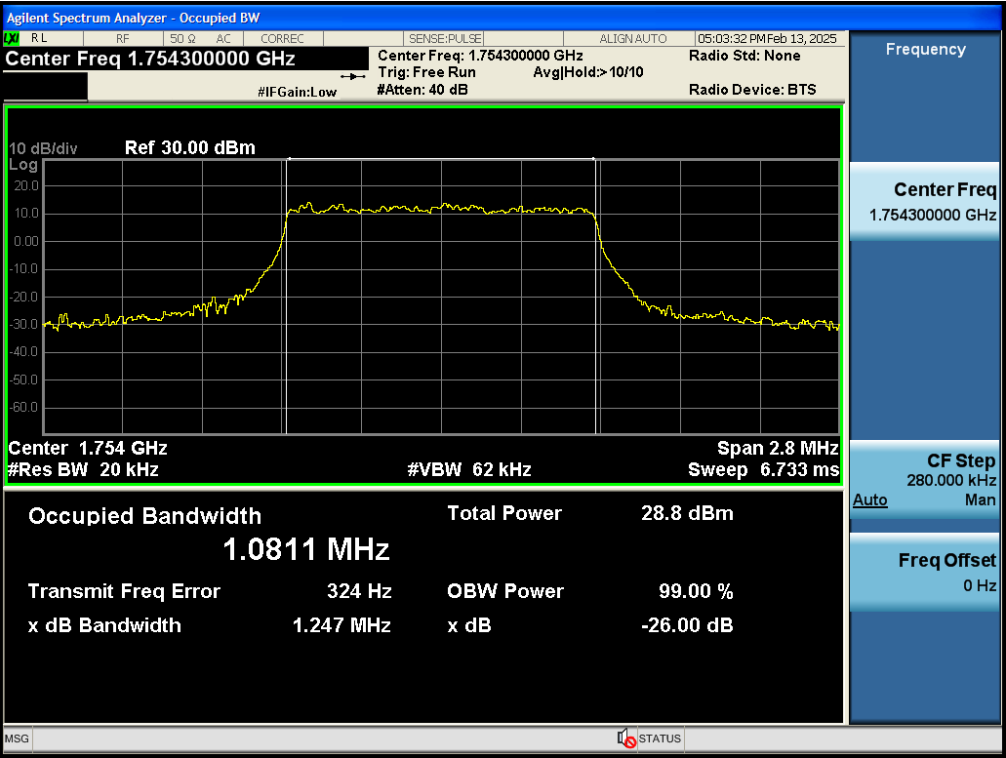
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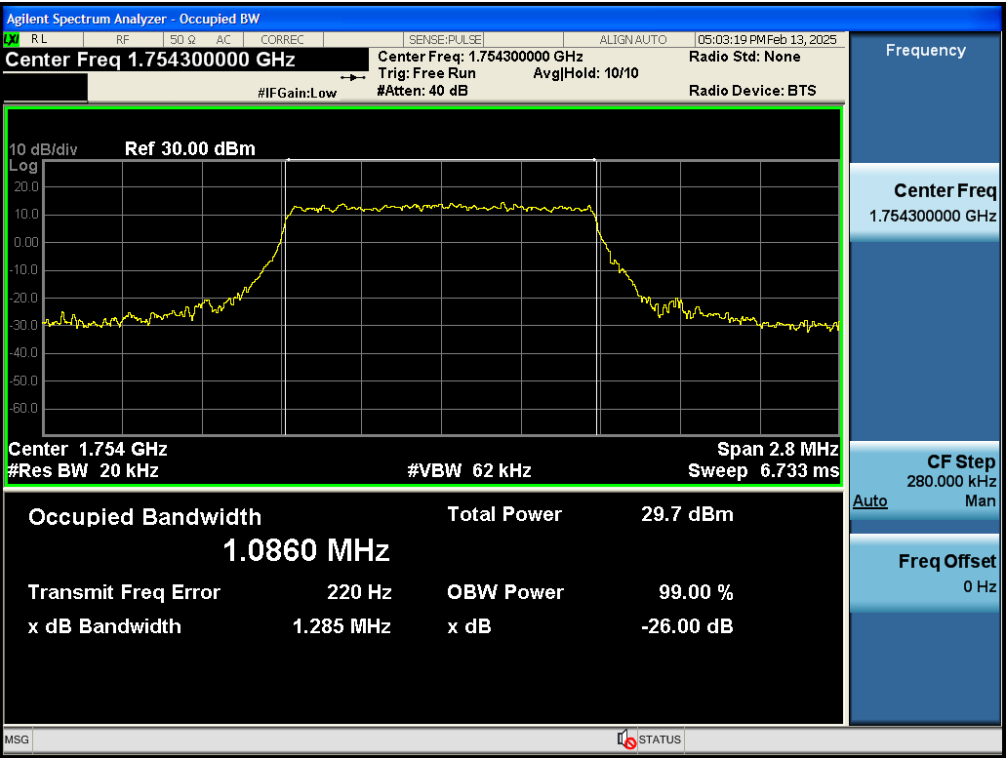
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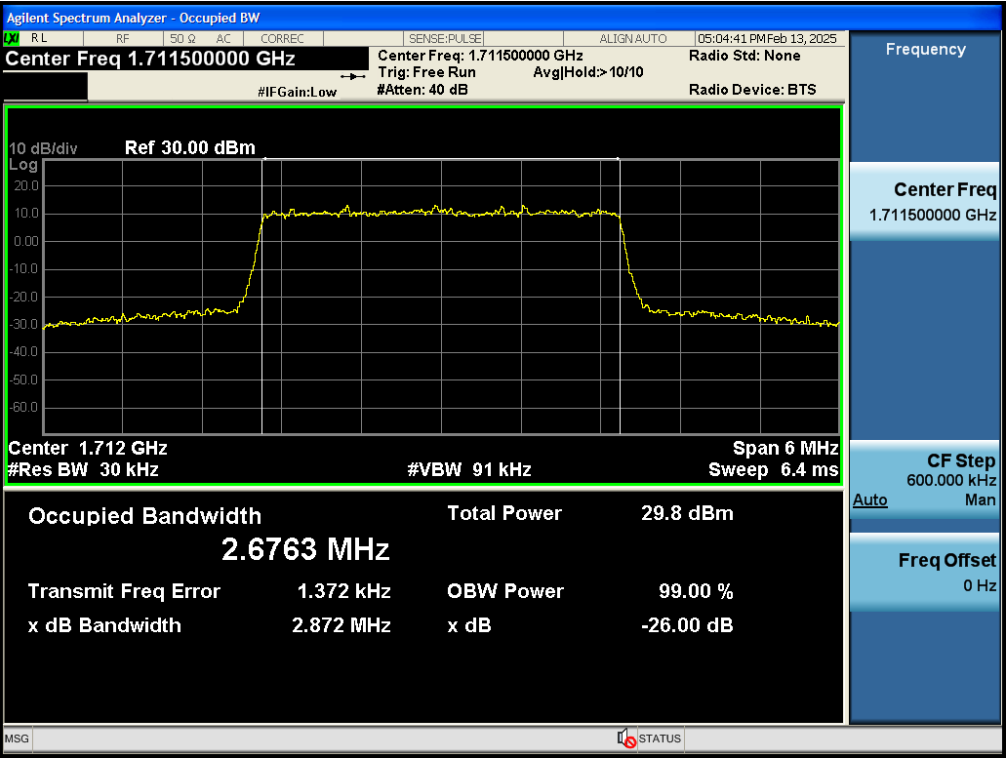
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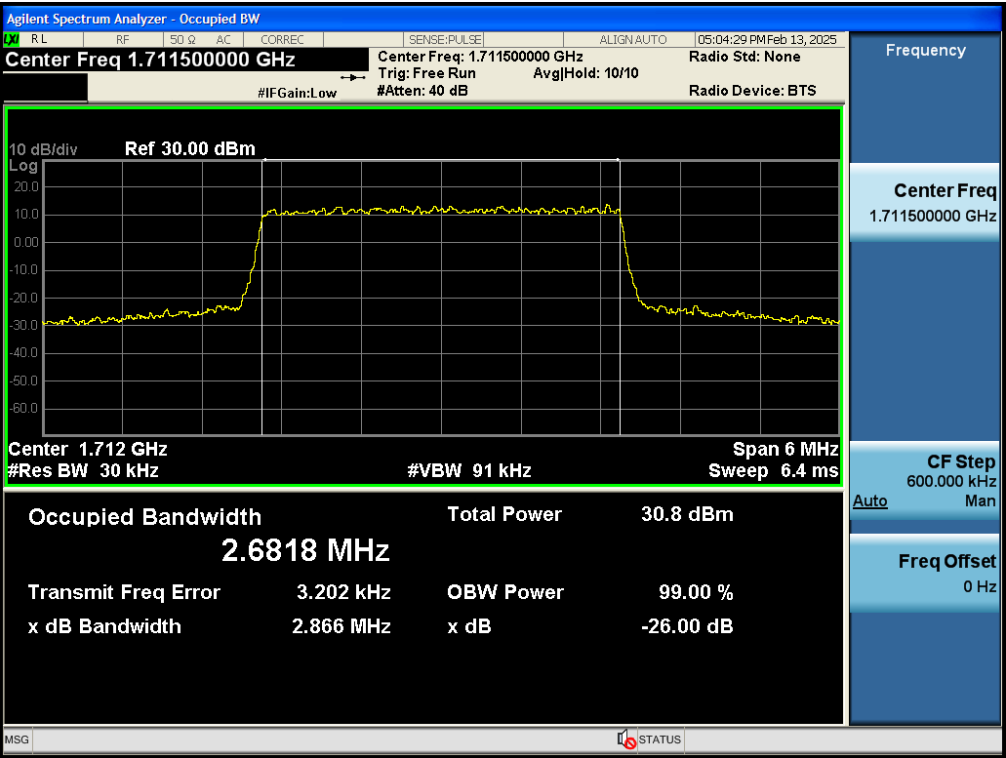
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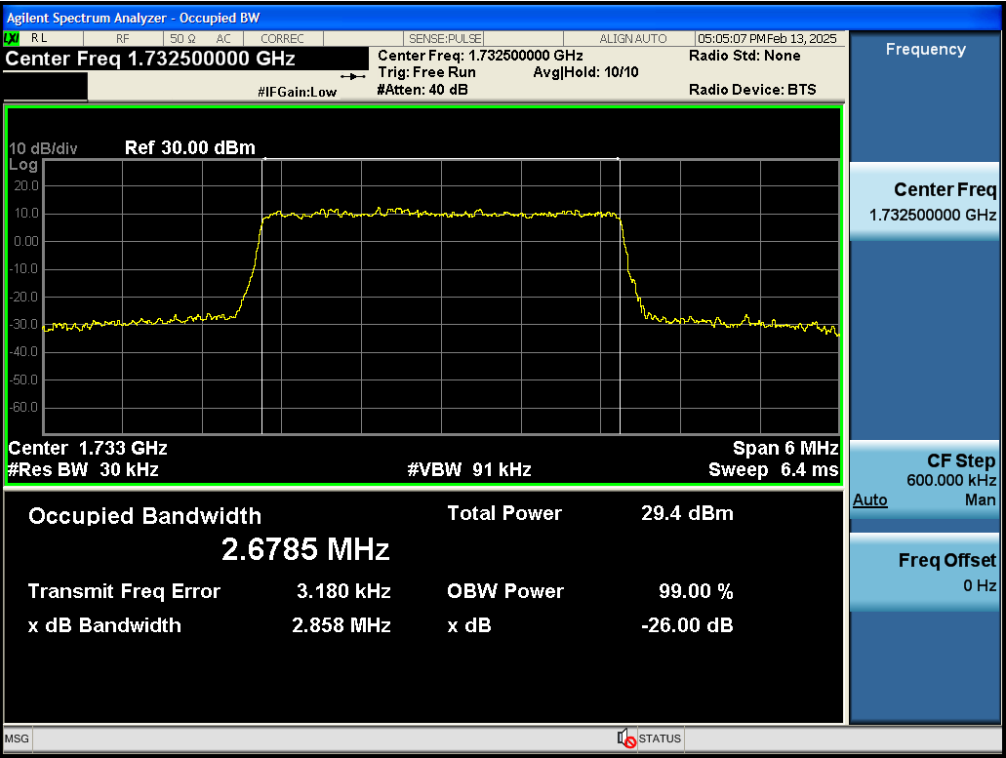
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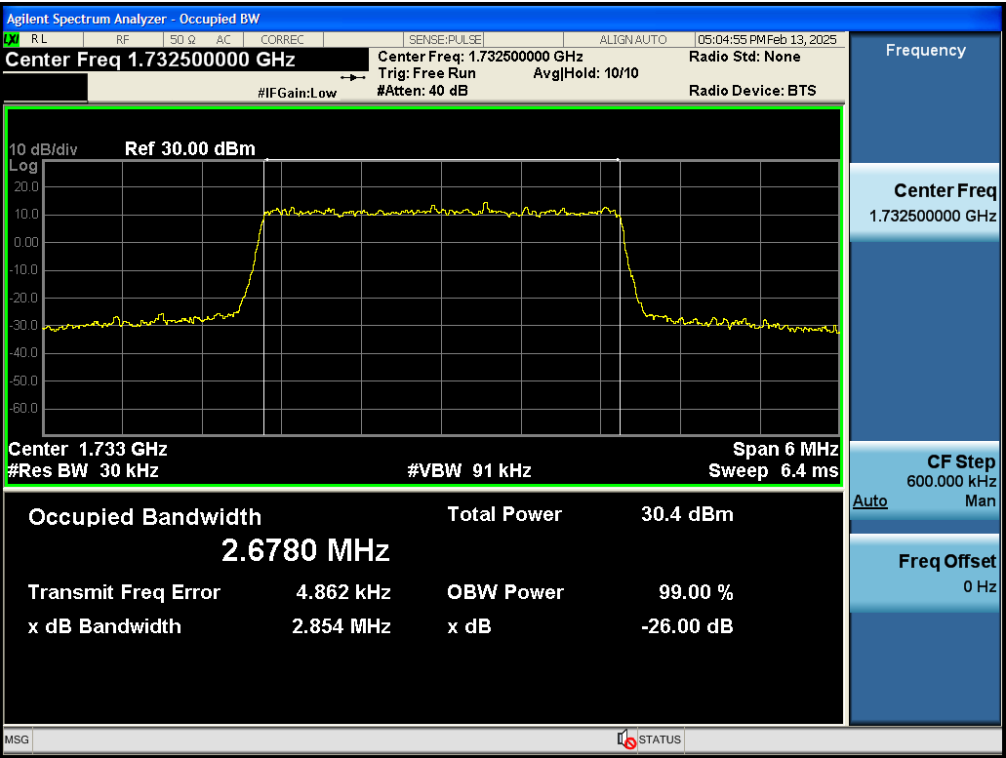
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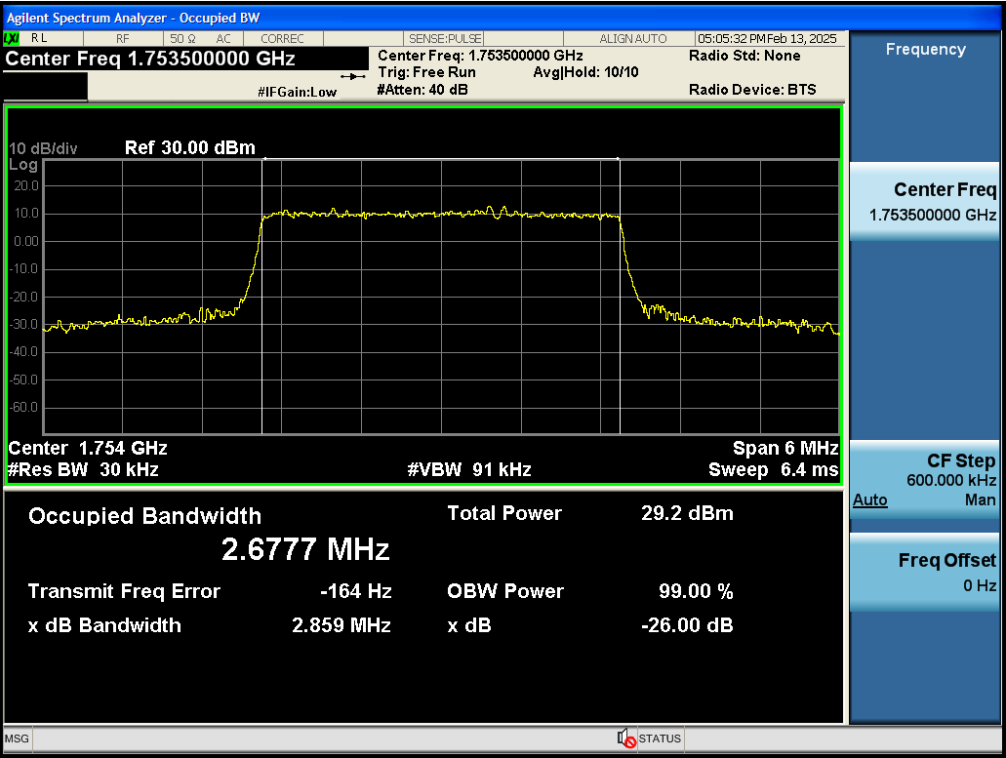
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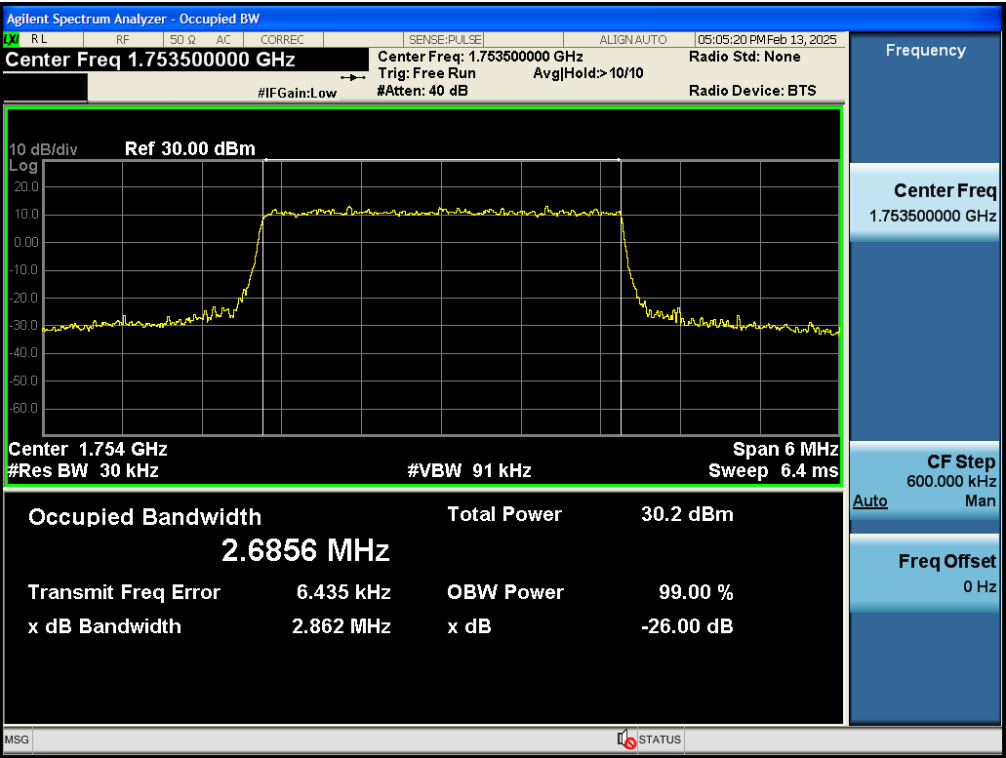
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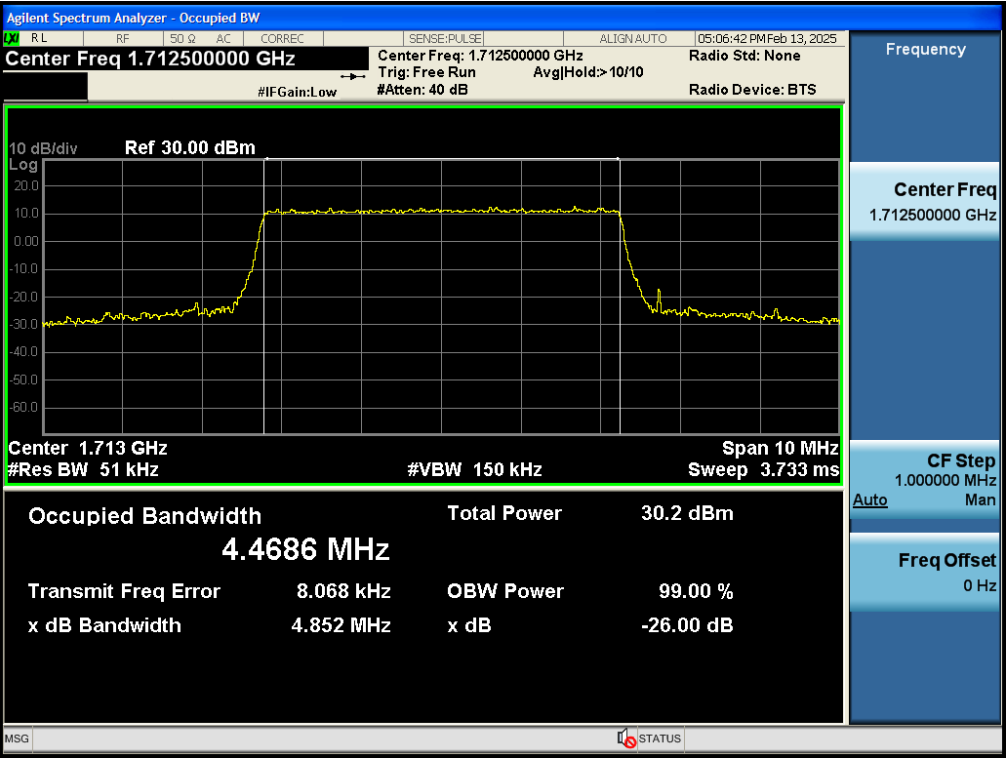
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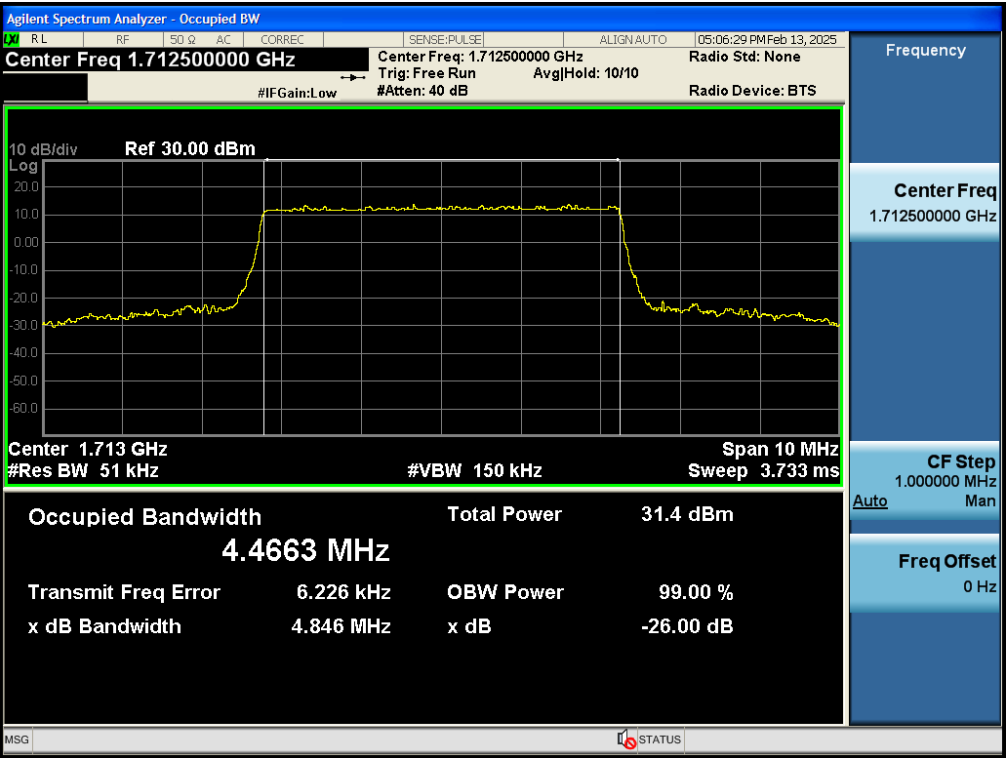
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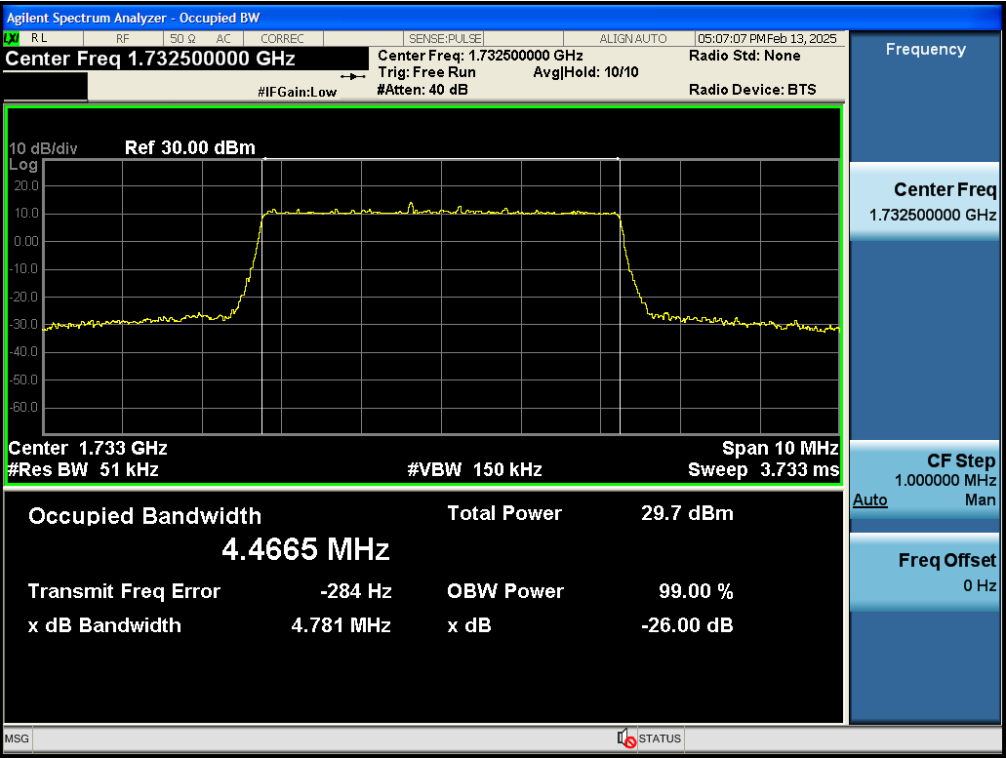
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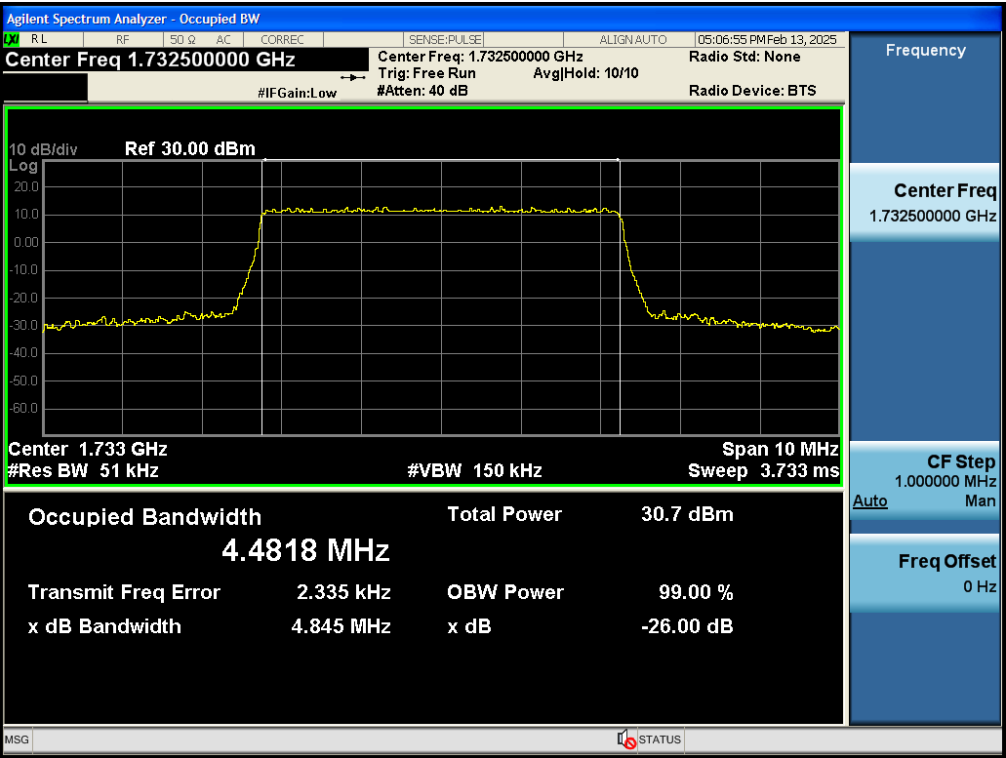
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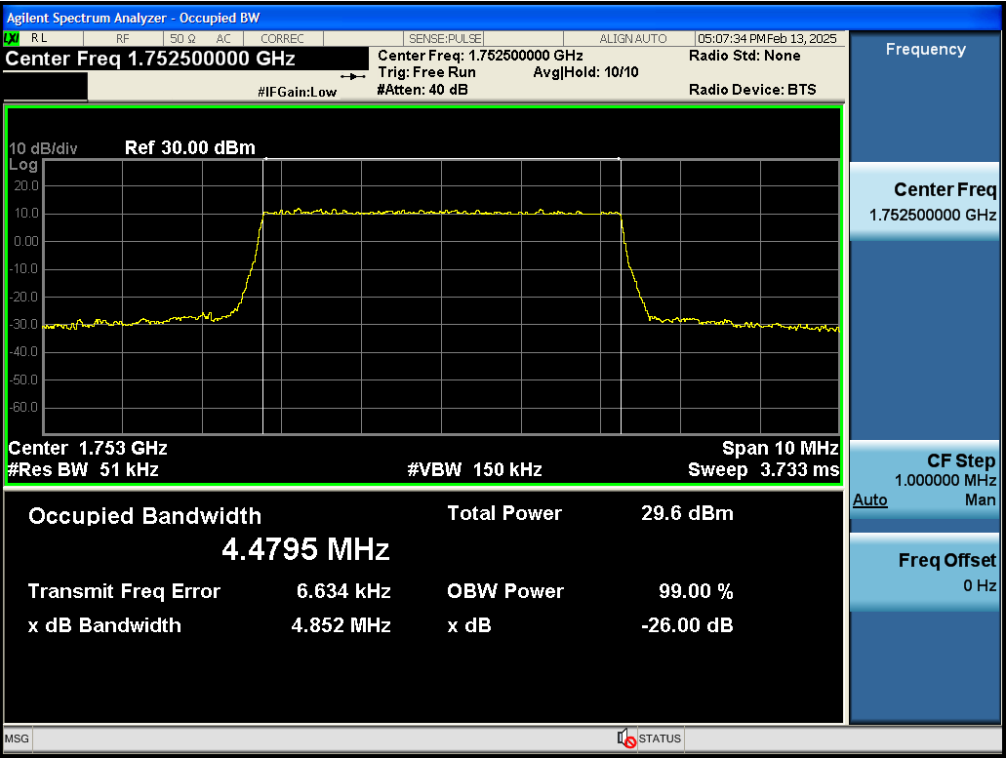
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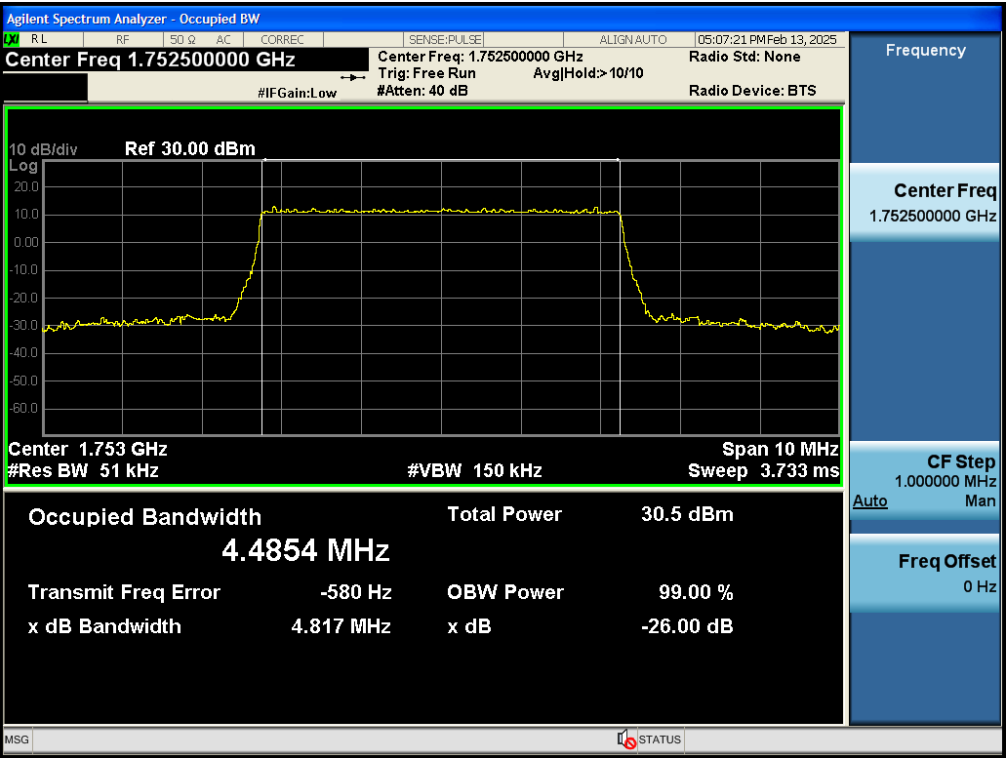
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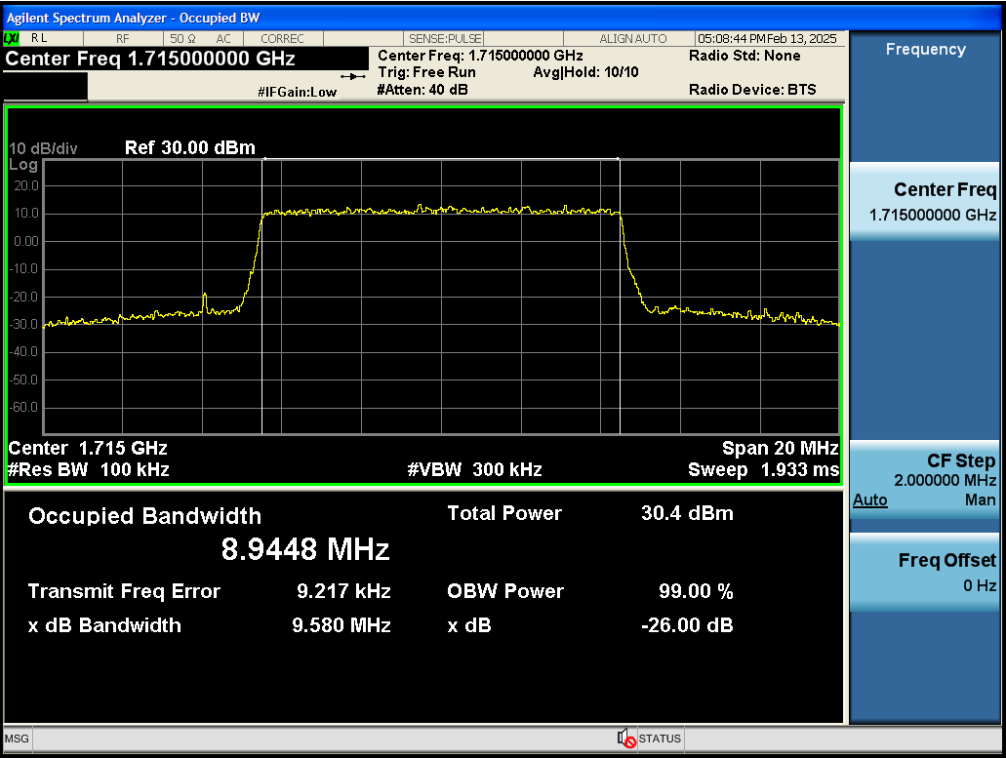
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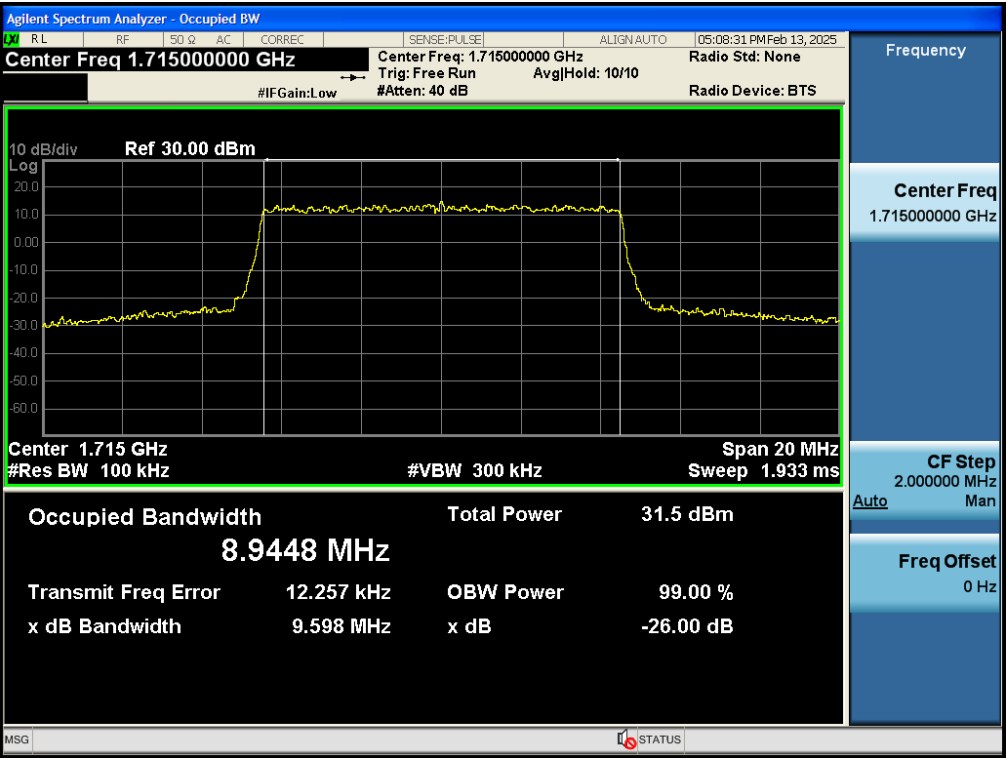
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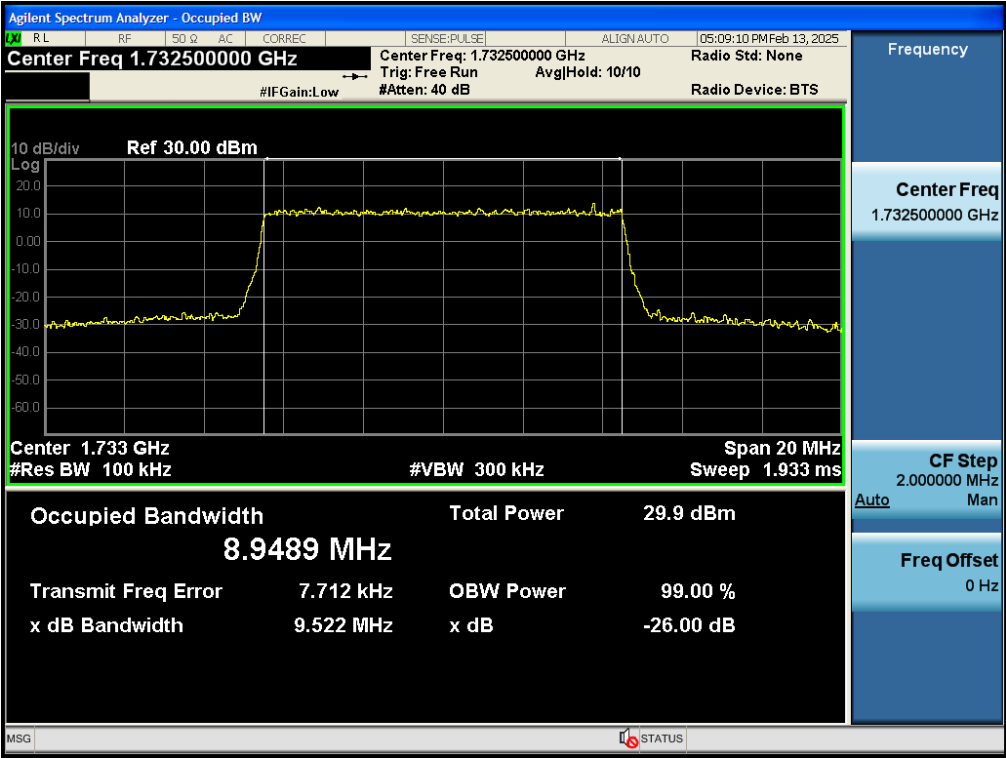
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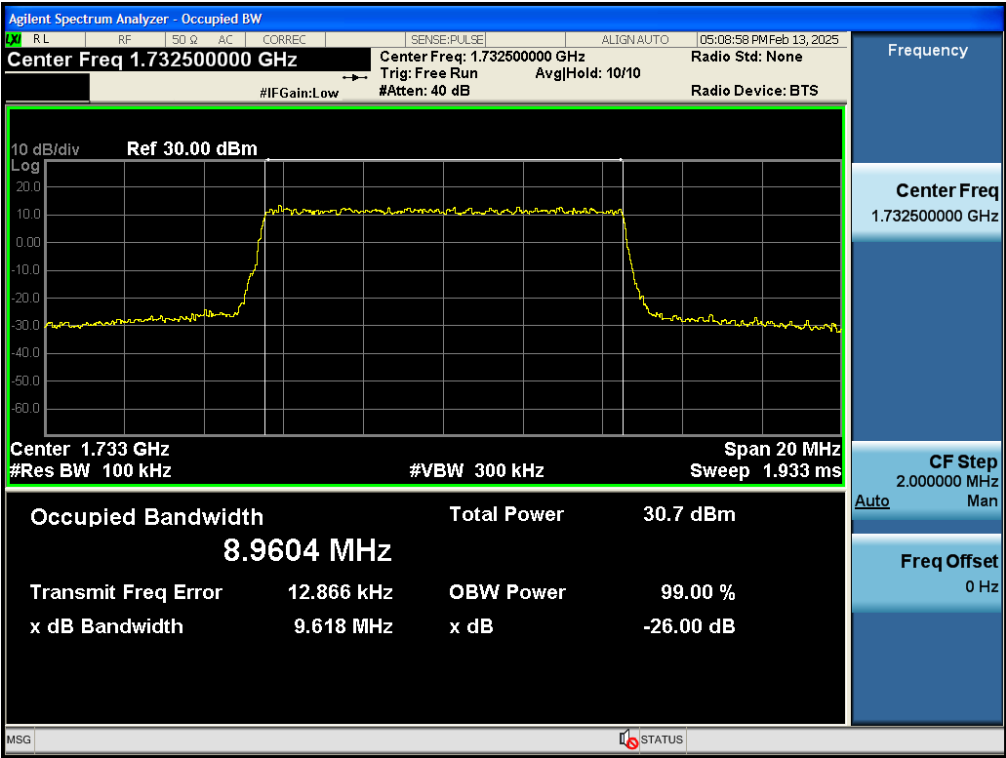
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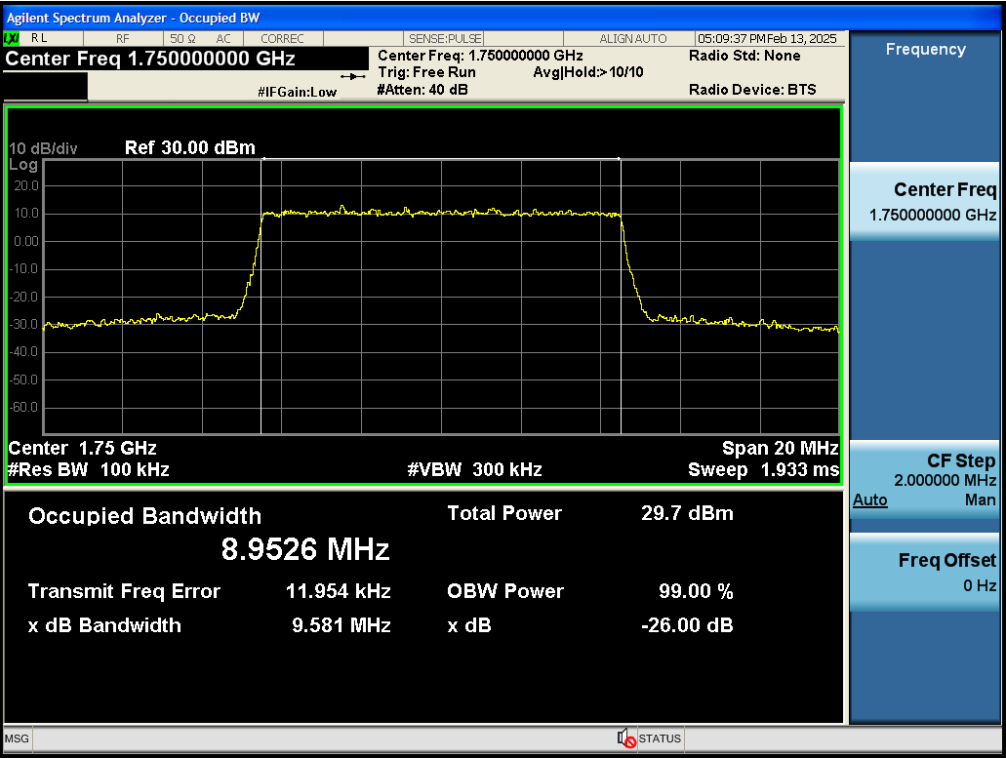
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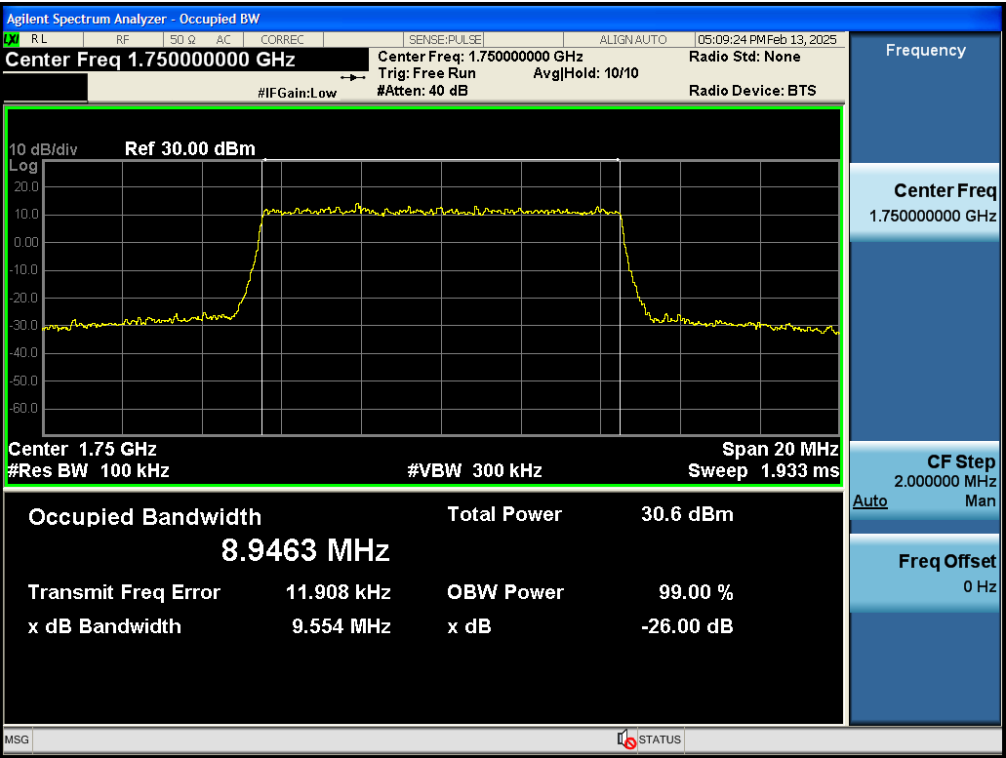
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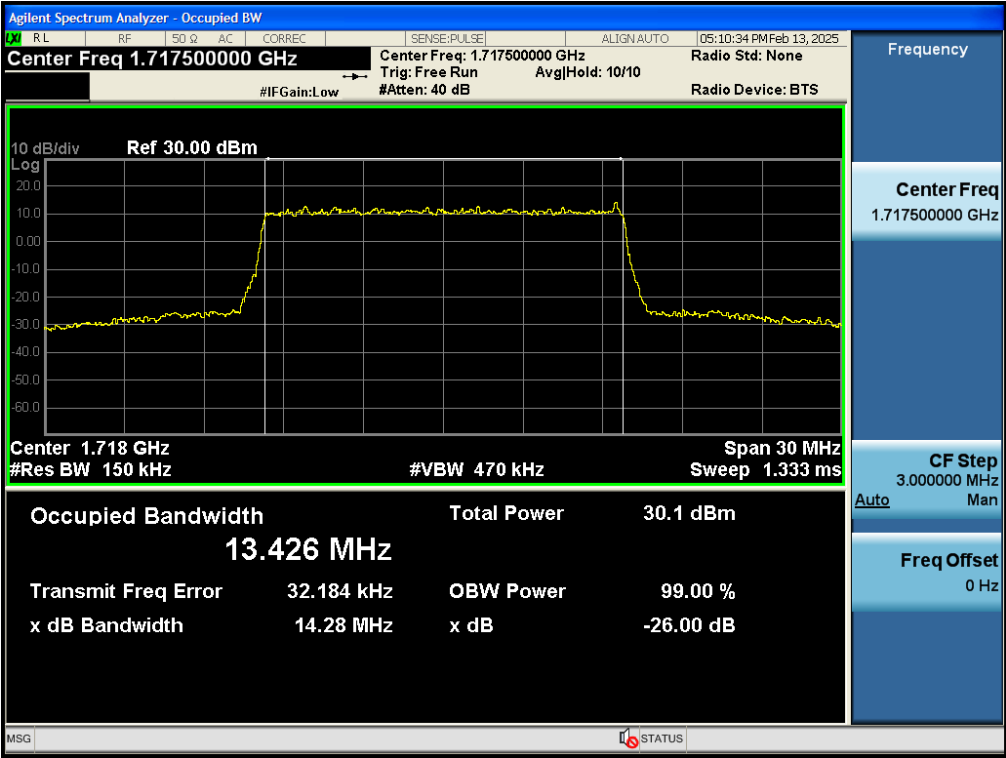
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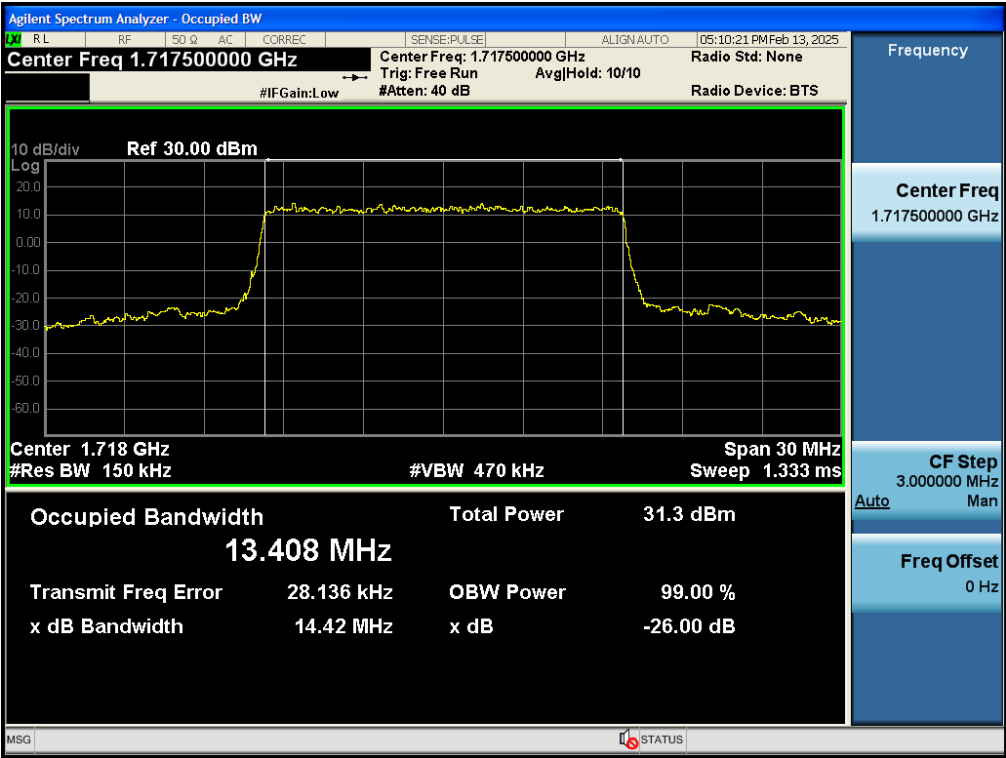
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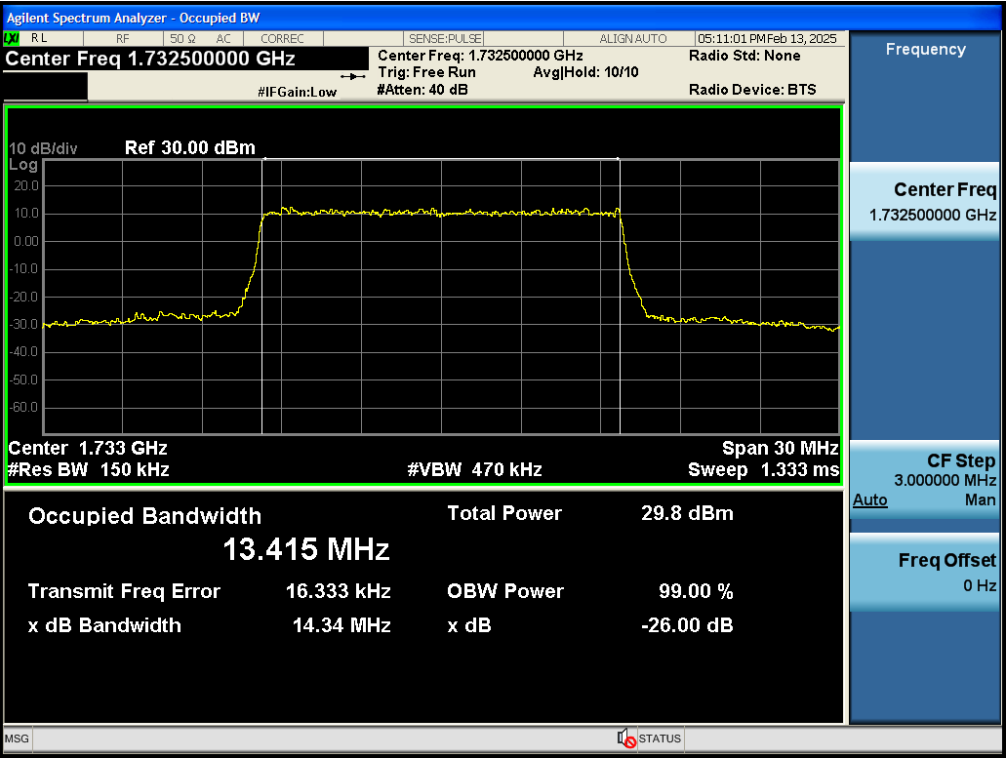
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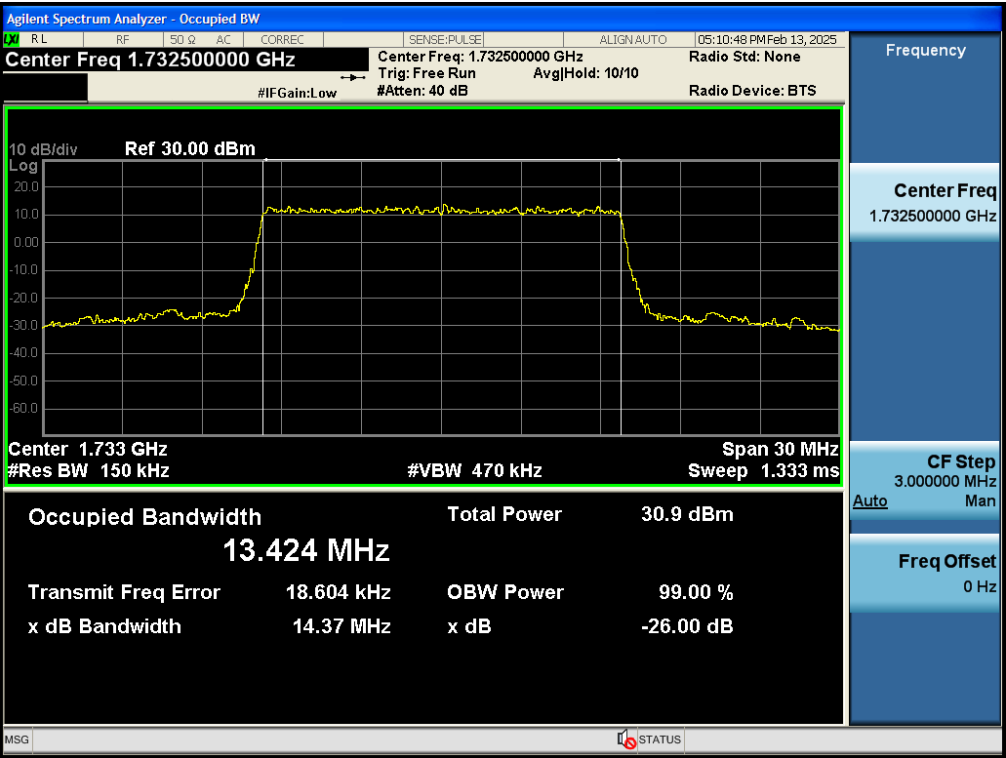
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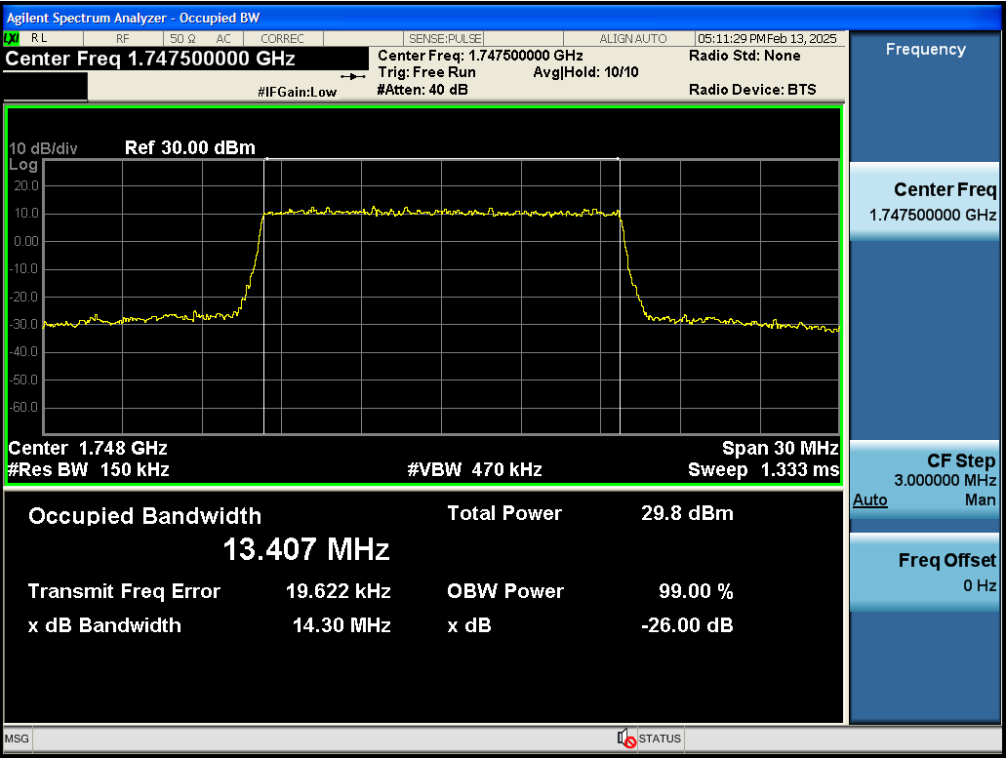
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



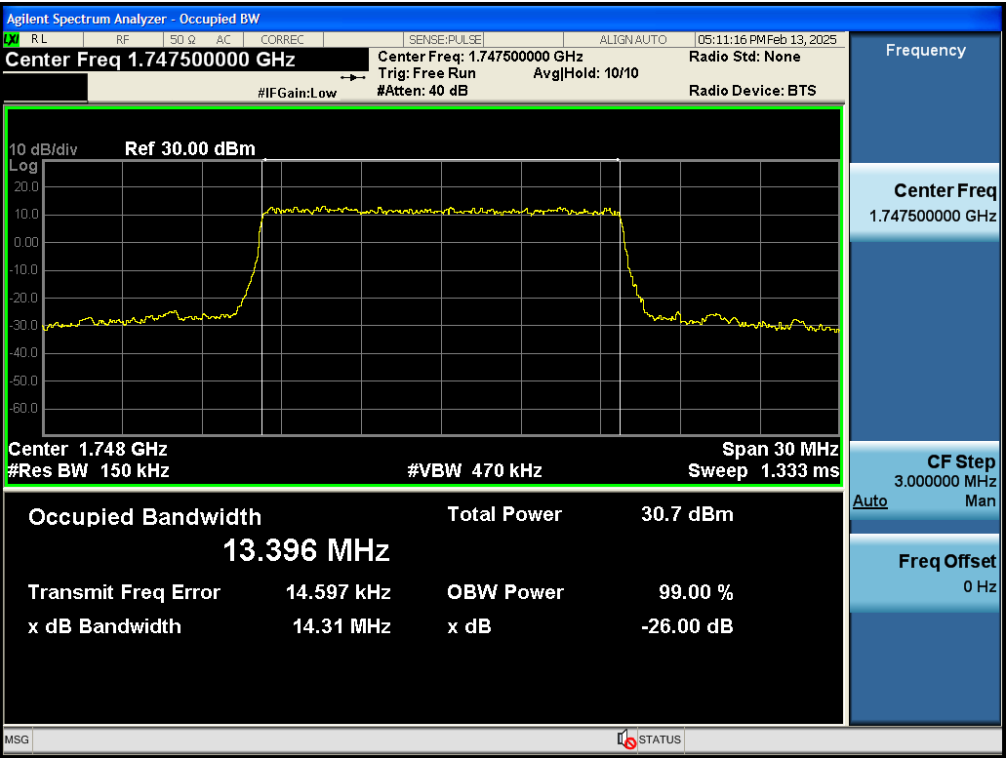
Test_Graph_band4_1732.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



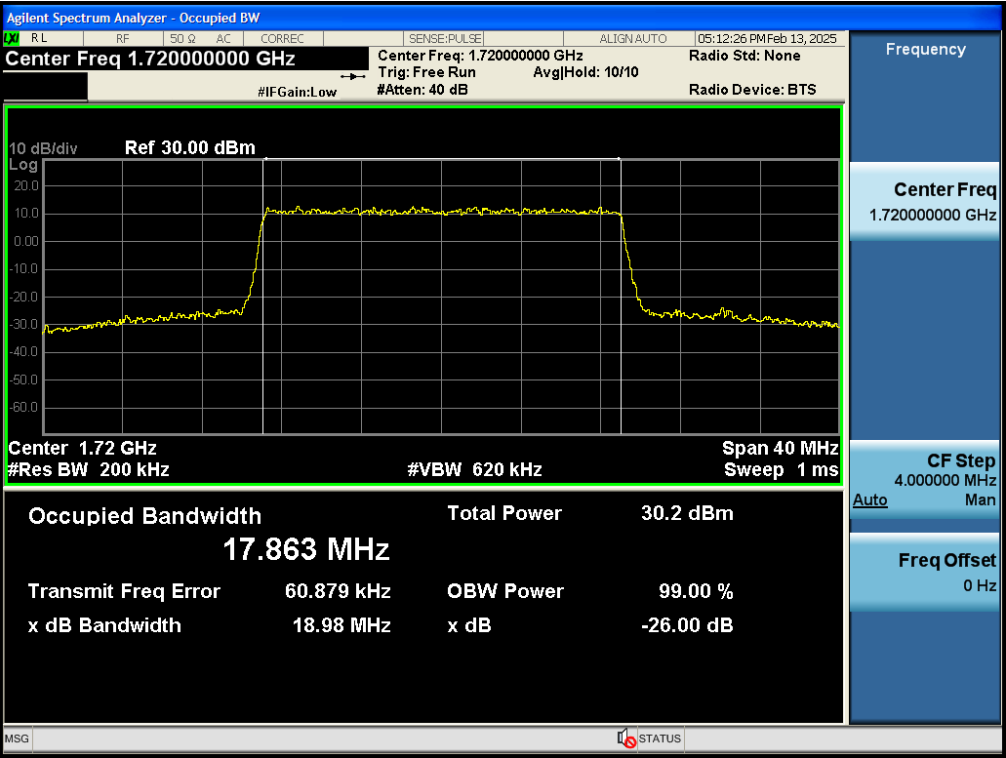
Test_Graph_band4_1732.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



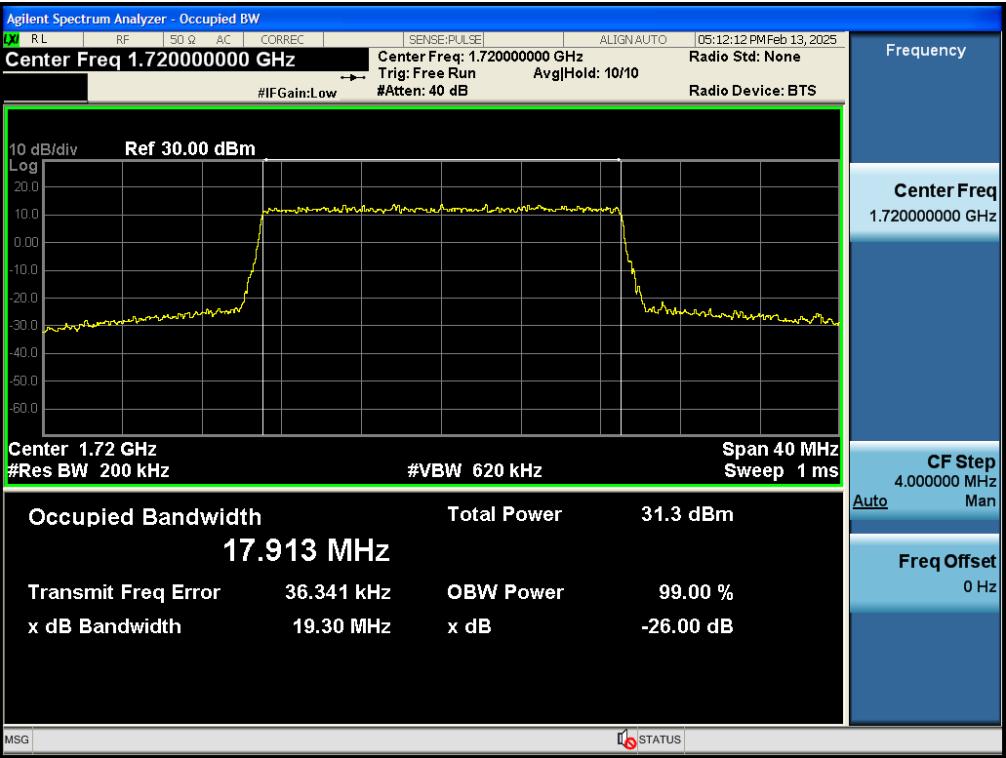
Test_Graph_band4_1747.5MHz_15M_16QAM_75RB#LOW_OBW&EBW



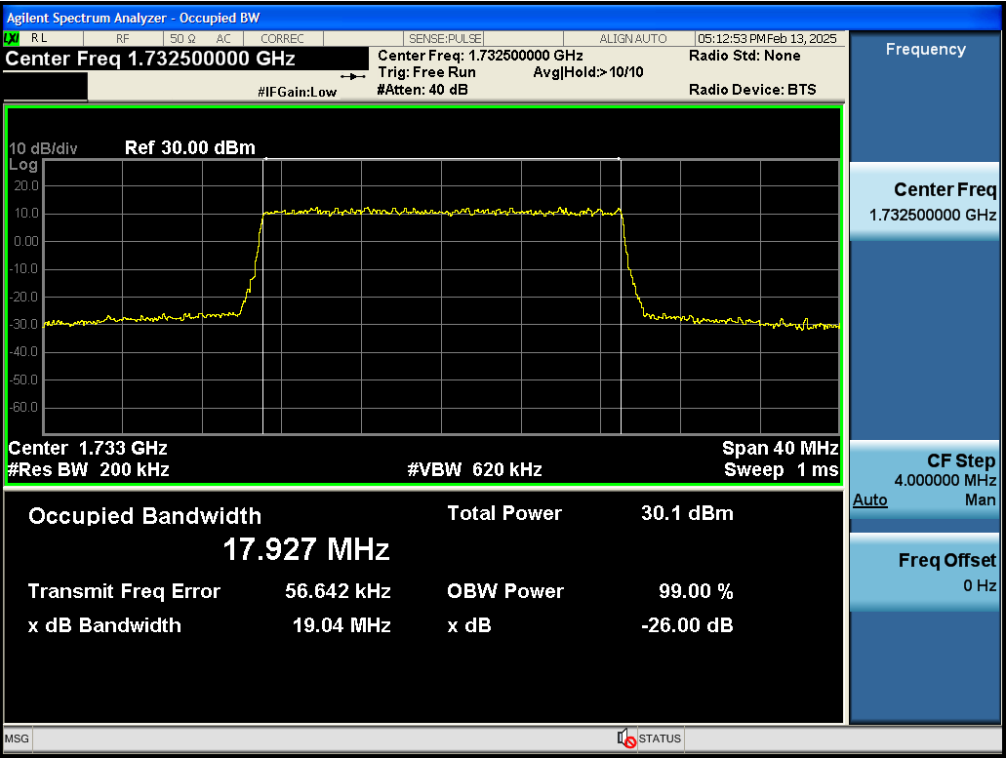
Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_OBW&EBW



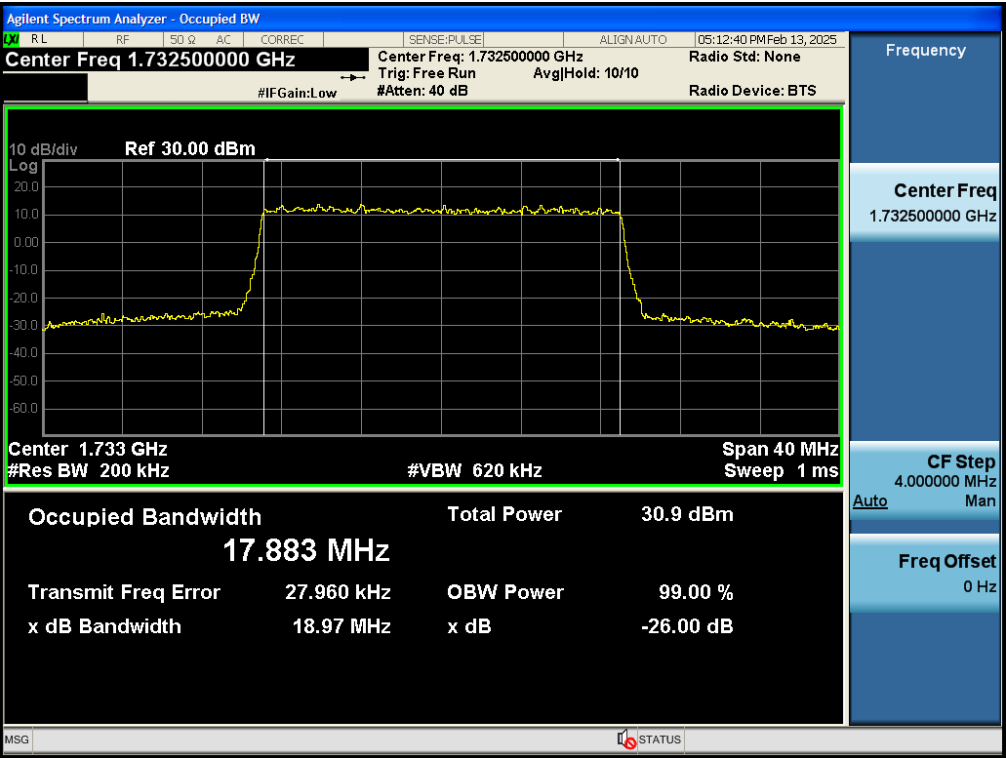
Test_Graph_band4_1720MHz_20M_16QAM_100RB#LOW_OBW&EBW



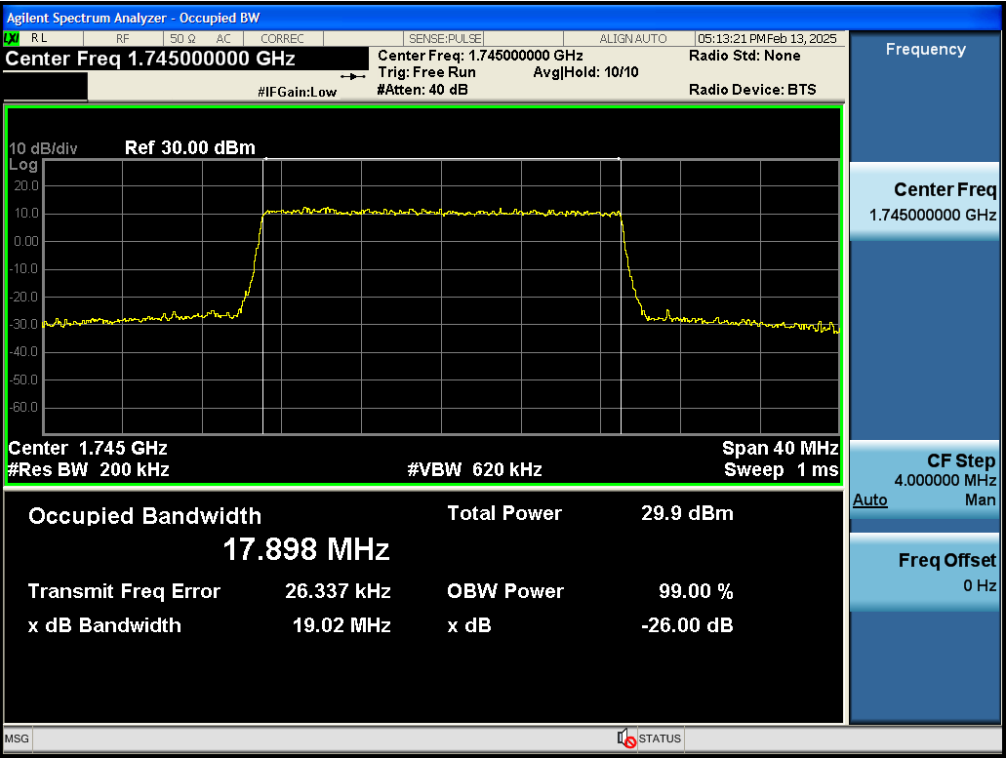
Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_OBW&EBW



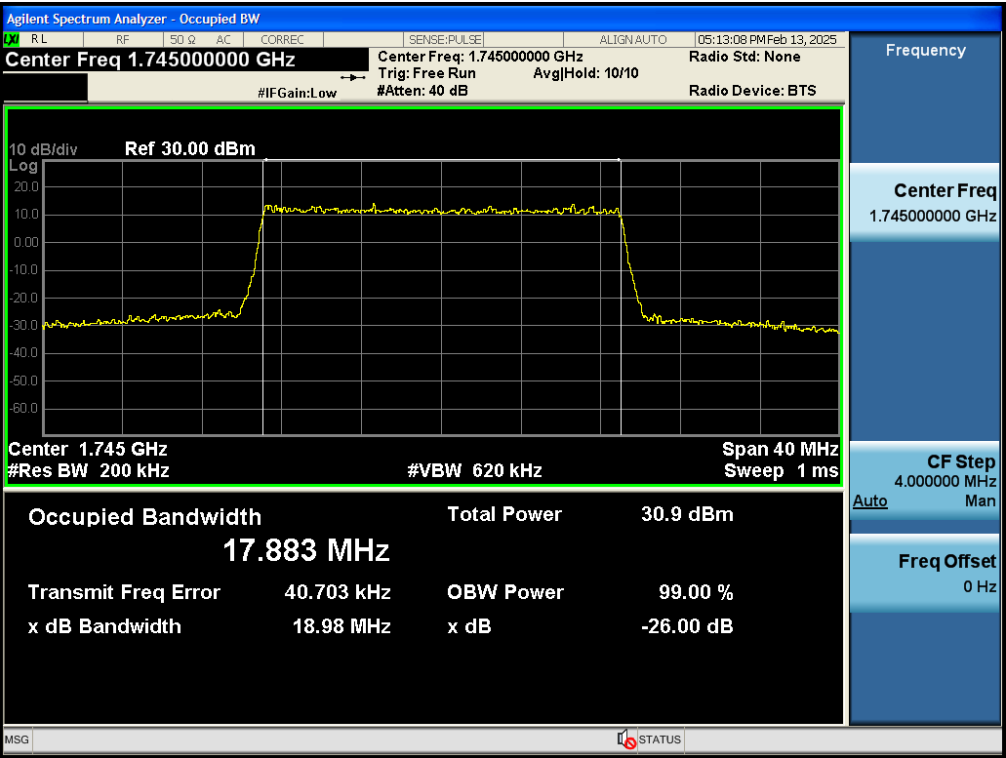
Test_Graph_band4_1732.5MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_OBW&EBW



Test_Graph_band4_1745MHz_20M_16QAM_100RB#LOW_OBW&EBW



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_OBW&EBW

Appendix C: Band edge emissions

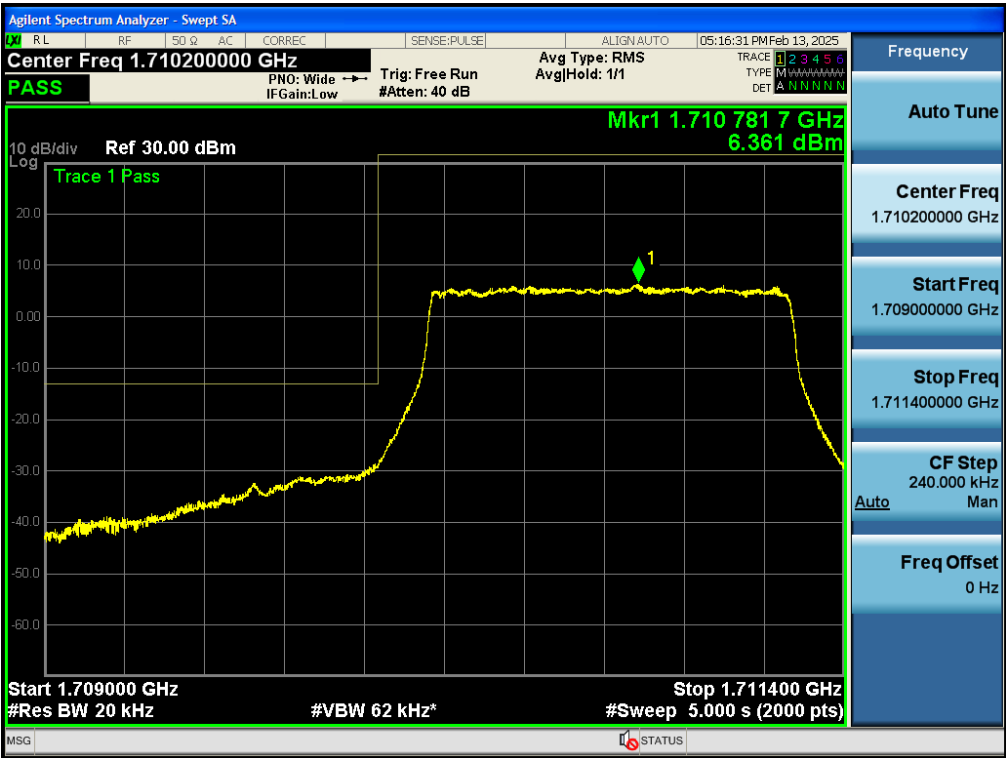
Test Result

Band	Bandwidth (MHz)	UL Frequency (MHz)	Modulation	RB Size	RB Offset	Conclusion
4	1.4	1710.7	QPSK	6	LOW	Pass
4	1.4	1710.7	16QAM	6	LOW	Pass
4	1.4	1754.3	QPSK	6	LOW	Pass
4	1.4	1754.3	16QAM	6	LOW	Pass
4	3	1711.5	QPSK	15	LOW	Pass
4	3	1711.5	16QAM	15	LOW	Pass
4	3	1753.5	QPSK	15	LOW	Pass
4	3	1753.5	16QAM	15	LOW	Pass
4	5	1712.5	QPSK	25	LOW	Pass
4	5	1712.5	16QAM	25	LOW	Pass
4	5	1752.5	QPSK	25	LOW	Pass
4	5	1752.5	16QAM	25	LOW	Pass
4	10	1715	QPSK	50	LOW	Pass
4	10	1715	16QAM	50	LOW	Pass
4	10	1750	QPSK	50	LOW	Pass
4	10	1750	16QAM	50	HIGH	Pass
4	15	1717.5	QPSK	75	LOW	Pass
4	15	1717.5	16QAM	75	LOW	Pass
4	15	1747.5	QPSK	75	LOW	Pass
4	15	1747.5	16QAM	75	HIGH	Pass
4	20	1720	QPSK	100	LOW	Pass
4	20	1720	16QAM	100	LOW	Pass
4	20	1745	QPSK	100	LOW	Pass
4	20	1745	16QAM	100	HIGH	Pass

Test Graphs



Test_Graph_band4_1710.7MHz_1.4M_16QAM_6RB#LOW_Band edge



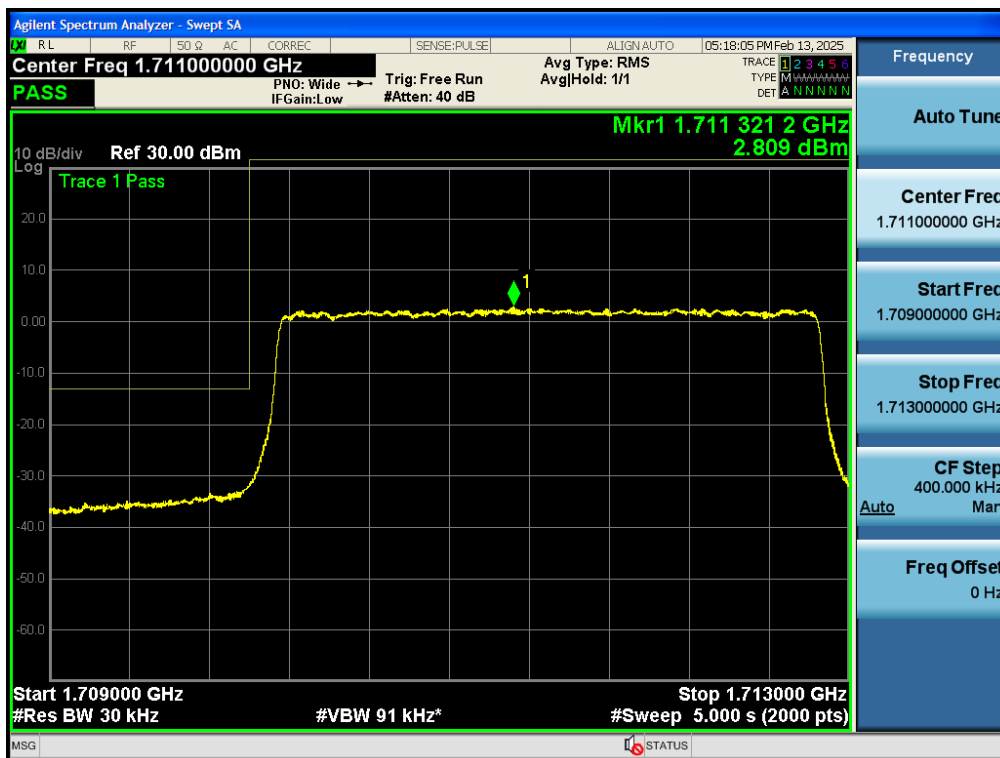
Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_Band edge



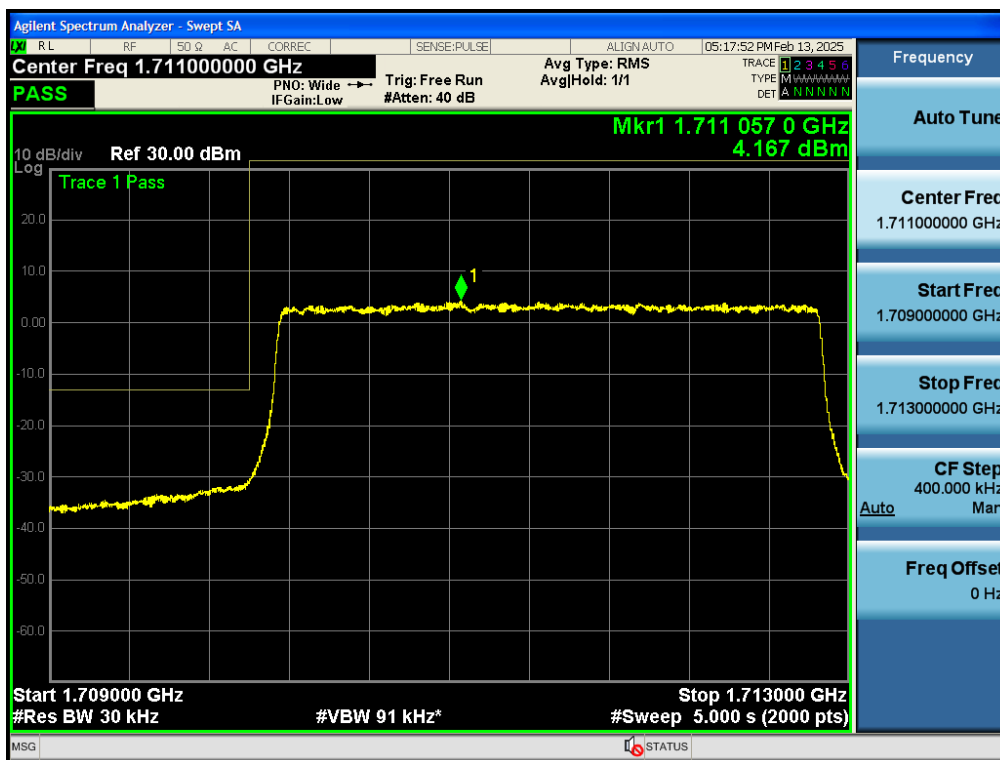
Test_Graph_band4_1754.3MHz_1.4M_16QAM_6RB#LOW_Band edge



Test_Graph_band4_1754.3MHz_1.4M_QPSK_6RB#LOW_Band edge



Test_Graph_band4_1711.5MHz_3M_16QAM_15RB#LOW_Band edge



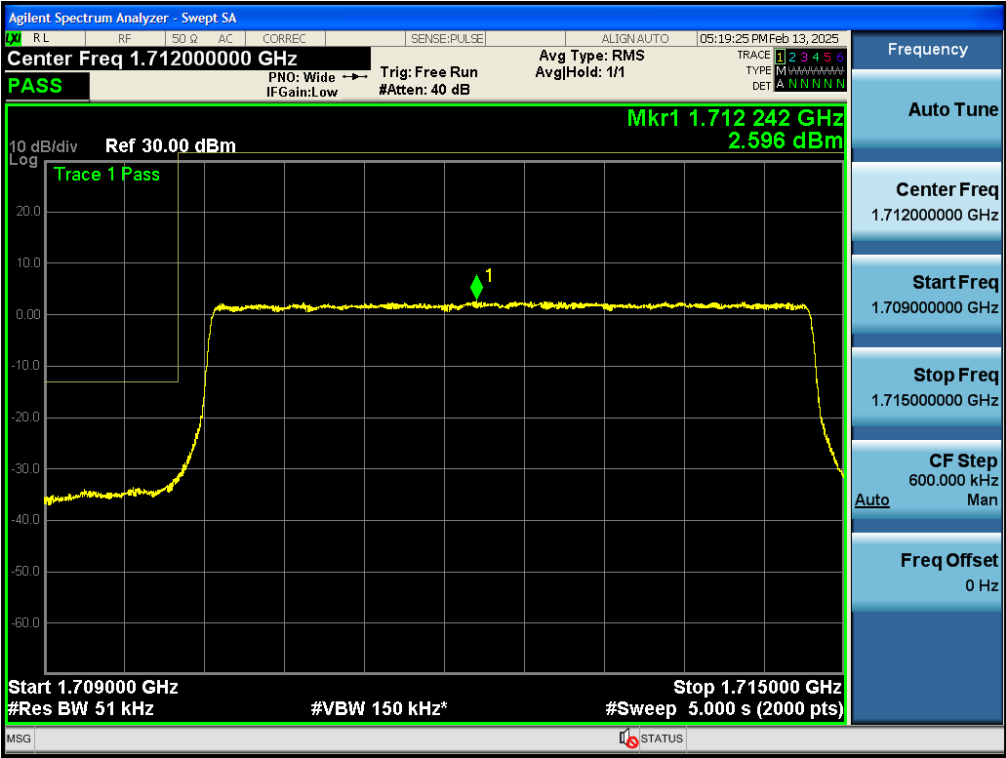
Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_Band edge



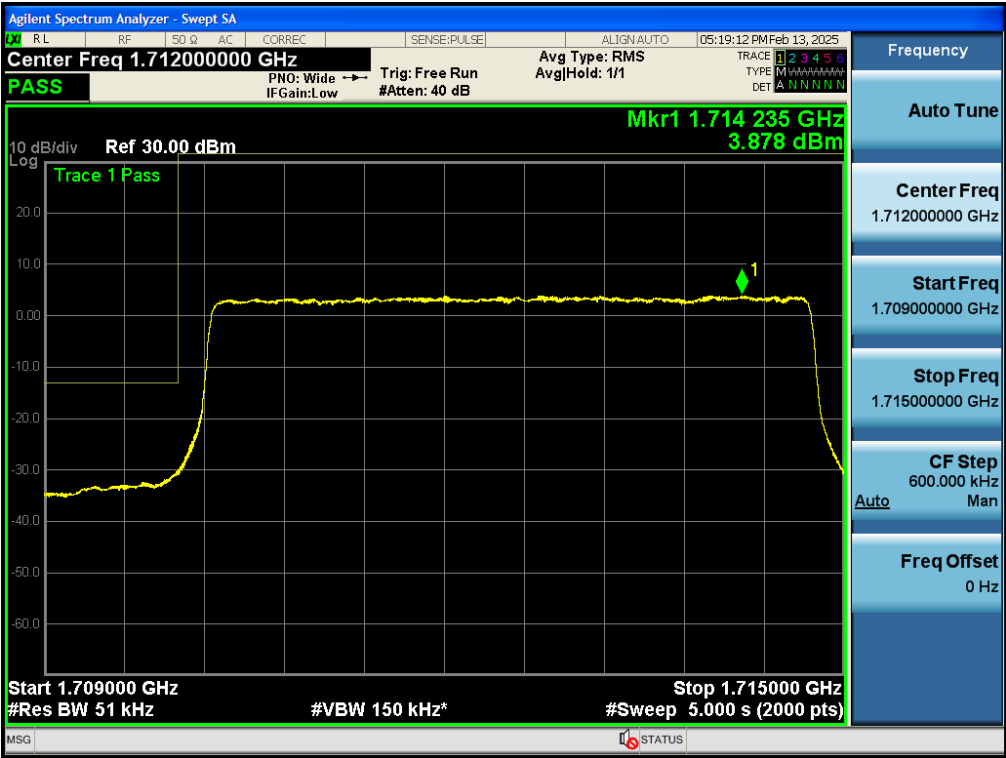
Test_Graph_band4_1753.5MHz_3M_16QAM_15RB#LOW_Band edge



Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_Band edge



Test_Graph_band4_1712.5MHz_5M_16QAM_25RB#LOW_Band edge



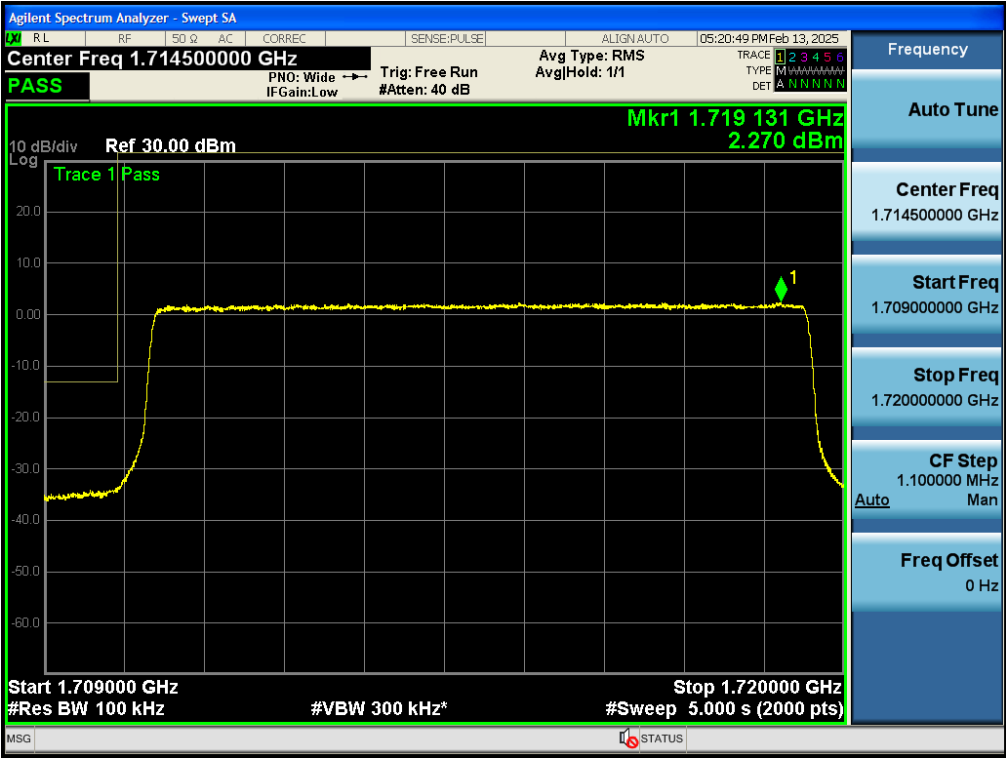
Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band4_1752.5MHz_5M_16QAM_25RB#LOW_Band edge



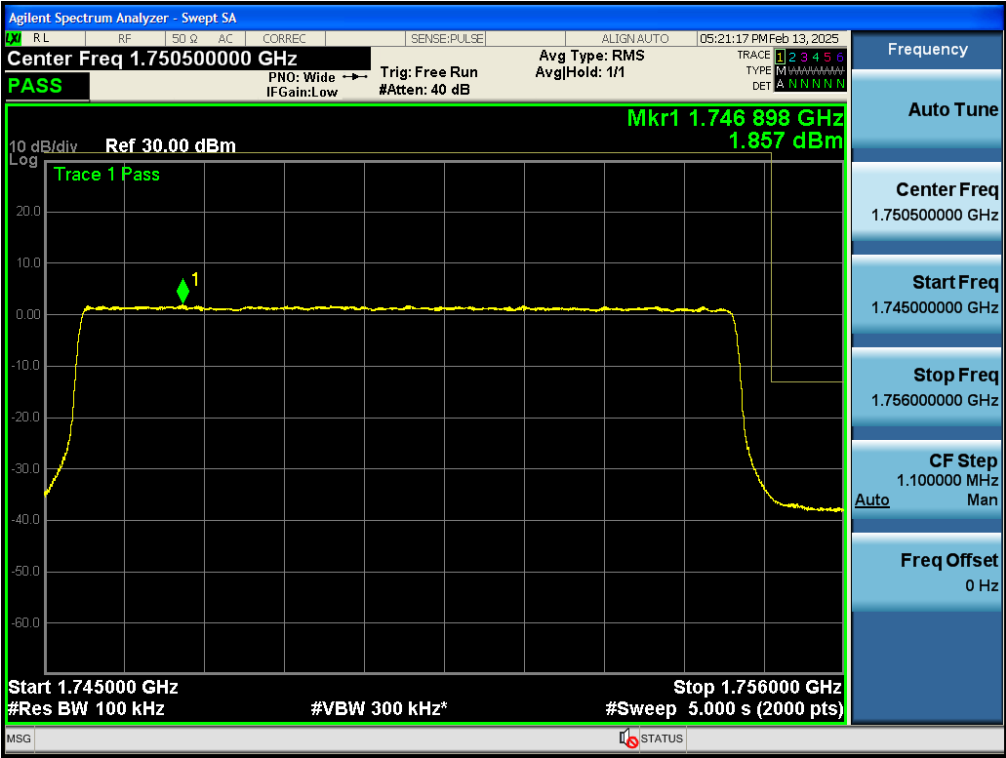
Test_Graph_band4_1752.5MHz_5M_QPSK_25RB#LOW_Band edge



Test_Graph_band4_1715MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_Band edge



Test_Graph_band4_1750MHz_10M_16QAM_50RB#LOW_Band edge



Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_Band edge





Test_Graph_band4_1747.5MHz_15M_16QAM_75RB#LOW_Band edge



Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_Band edge



Test_Graph_band4_1720MHz_20M_16QAM_100RB#LOW_Band edge



Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_Band edge



Test_Graph_band4_1745MHz_20M_16QAM_100RB#LOW_Band edge



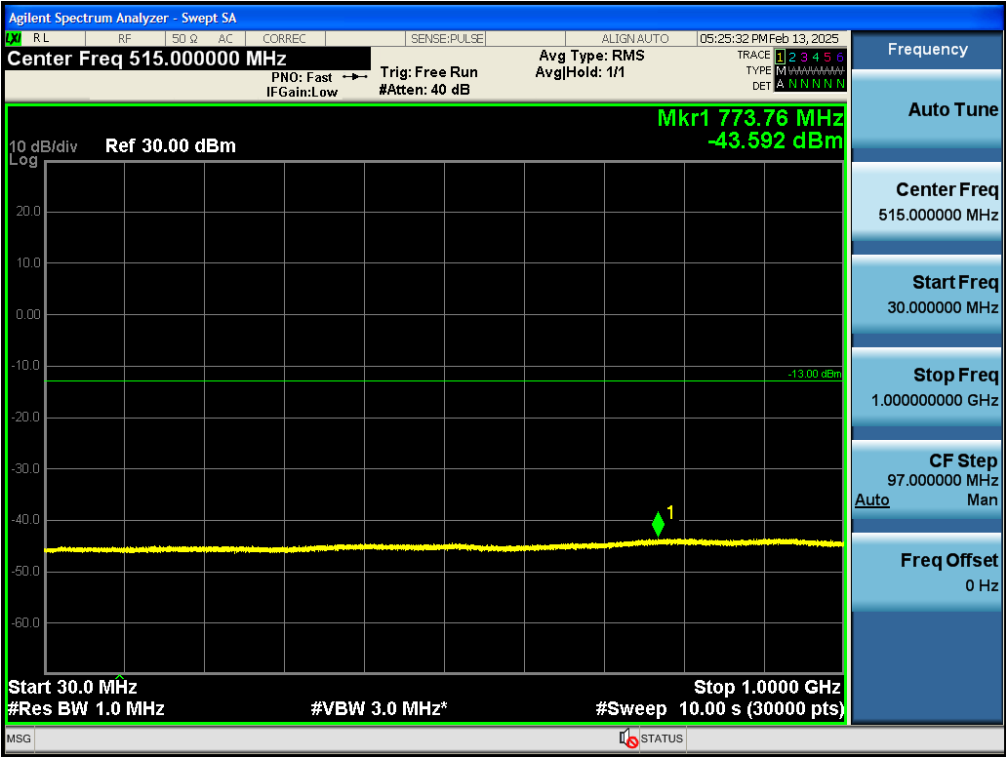
Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_Band edge

Appendix D: Unwanted spurious emissions at antenna terminals

Test Result

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

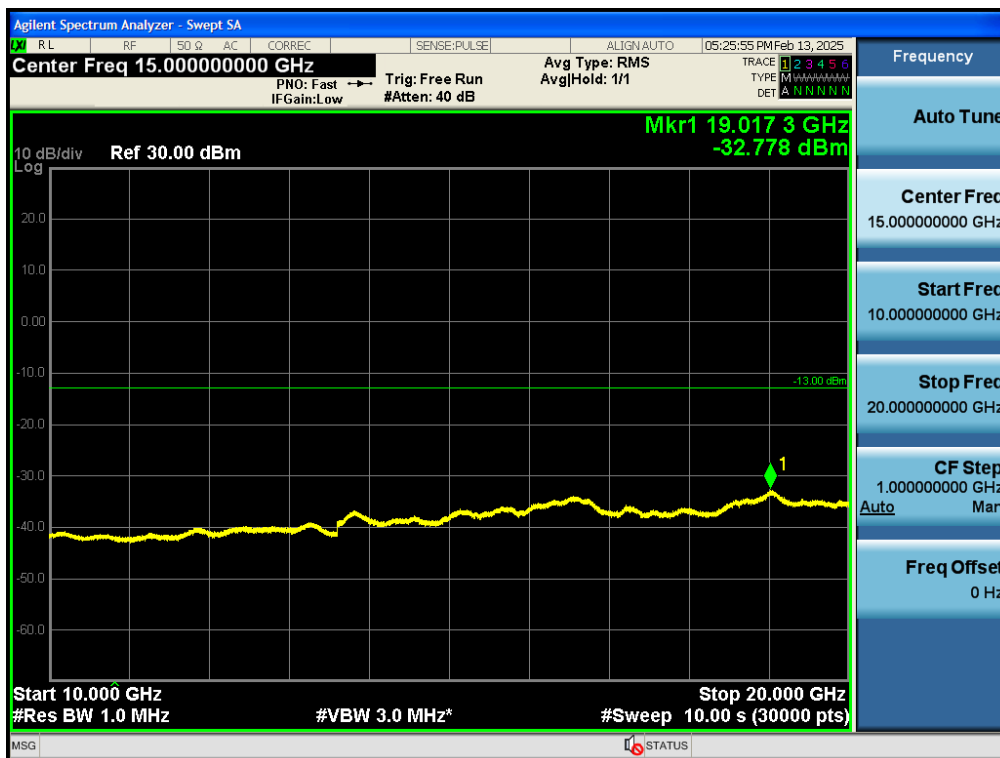
Test Graphs



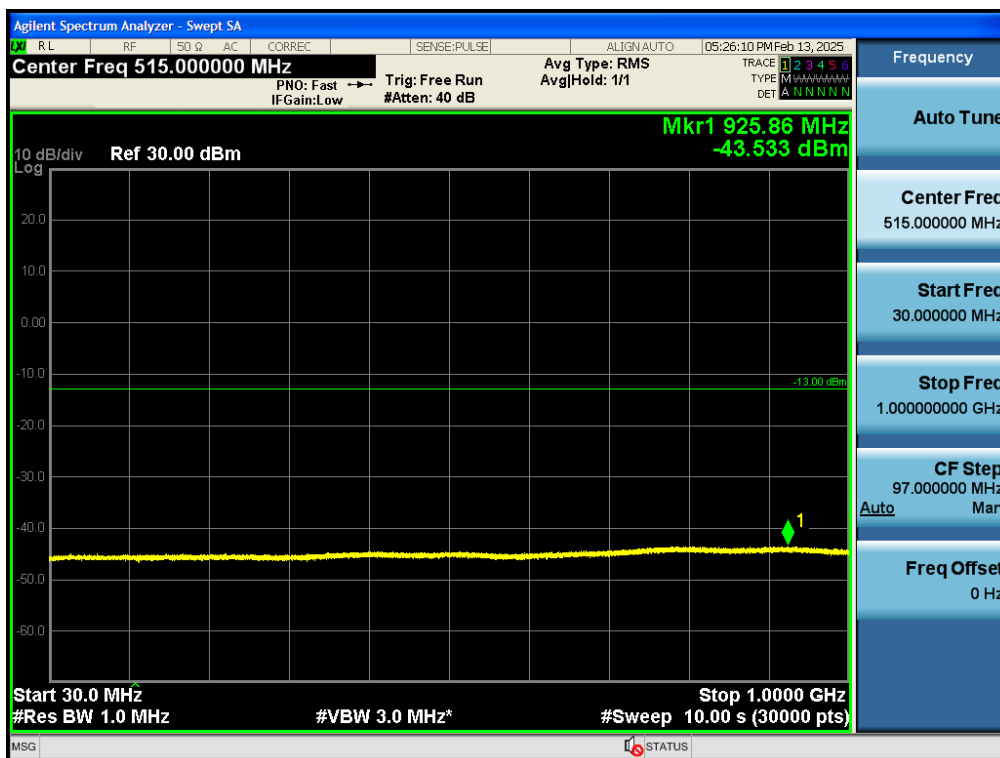
Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



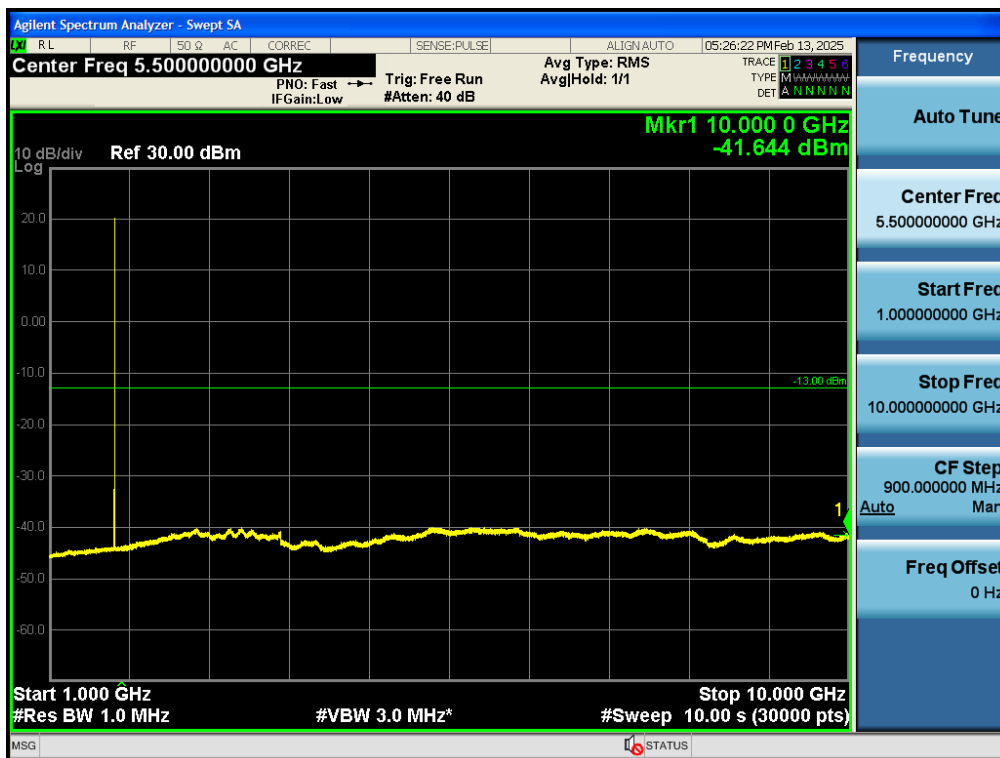
Test_Graph_band4_1710.7MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



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



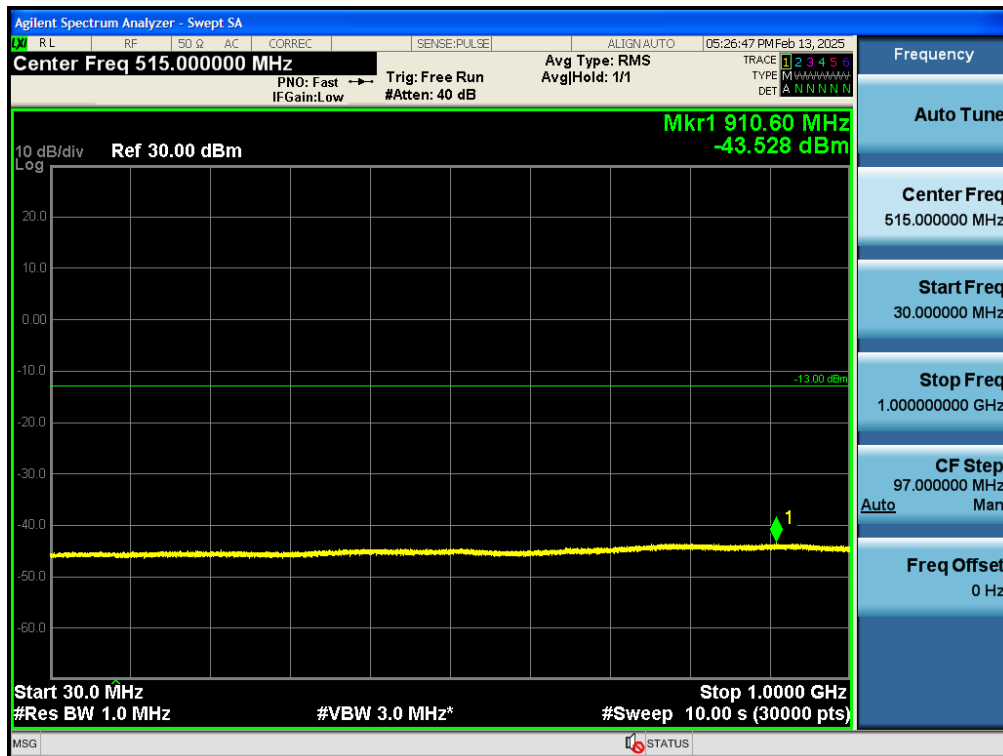
Test_Graph_band4_1732.5MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



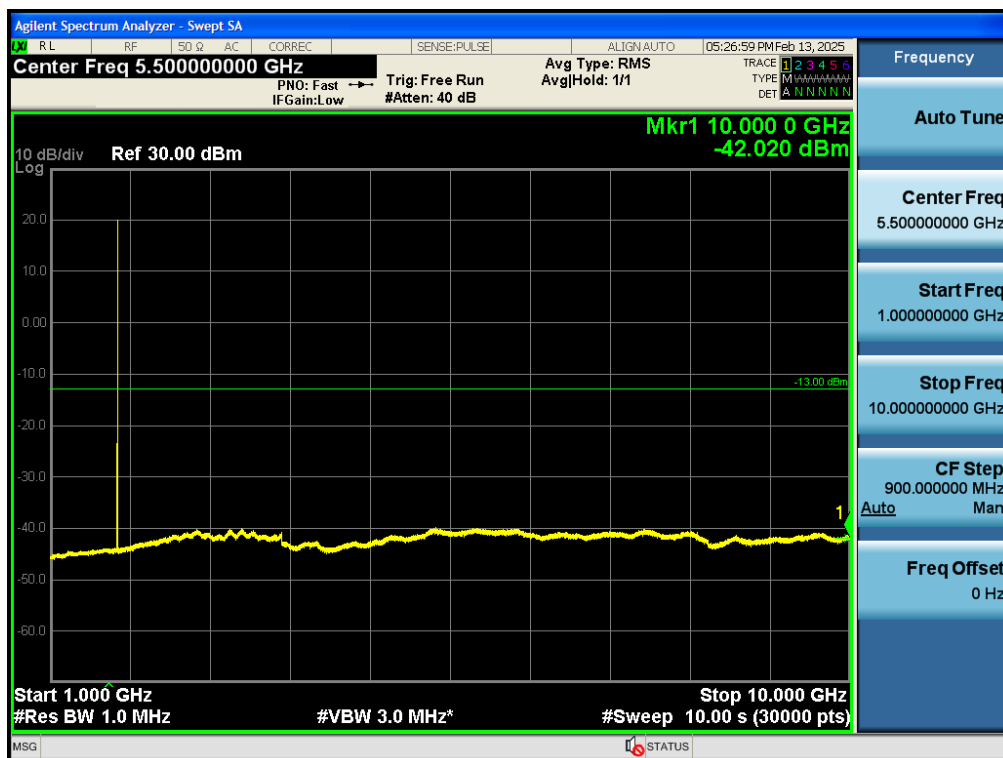
Test_Graph_band4_1732.5MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



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



Test_Graph_band4_1754.3MHz_1.4M_QPSK_6RB#LOW_30M_1G_TX



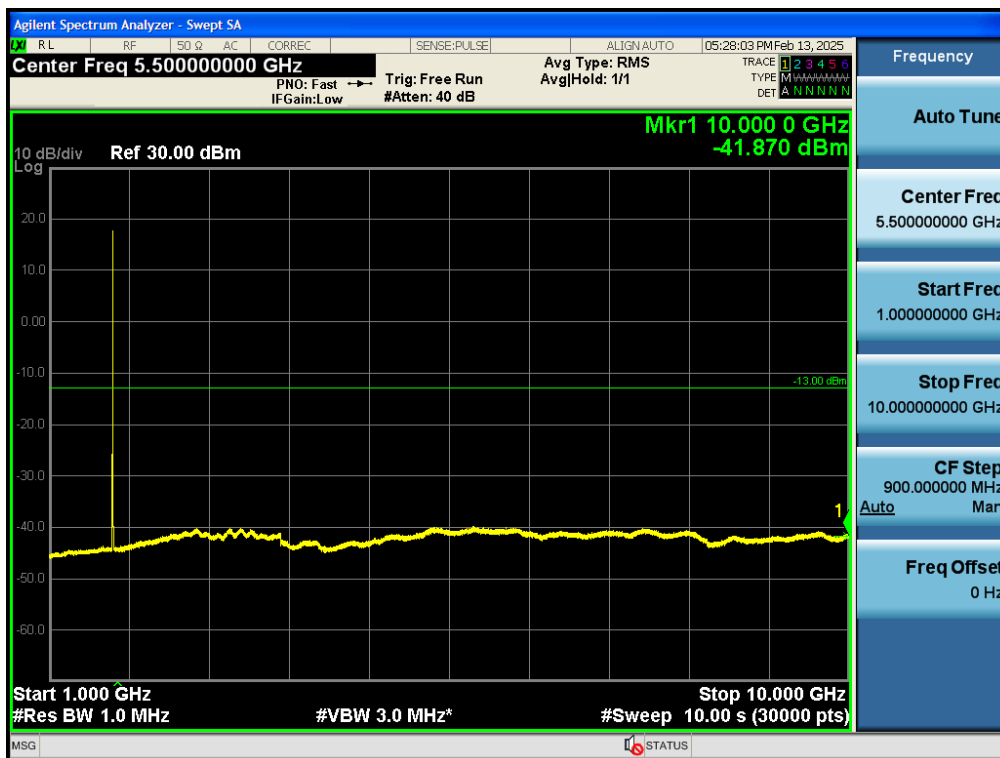
Test_Graph_band4_1754.3MHz_1.4M_QPSK_6RB#LOW_1G_10G_TX



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



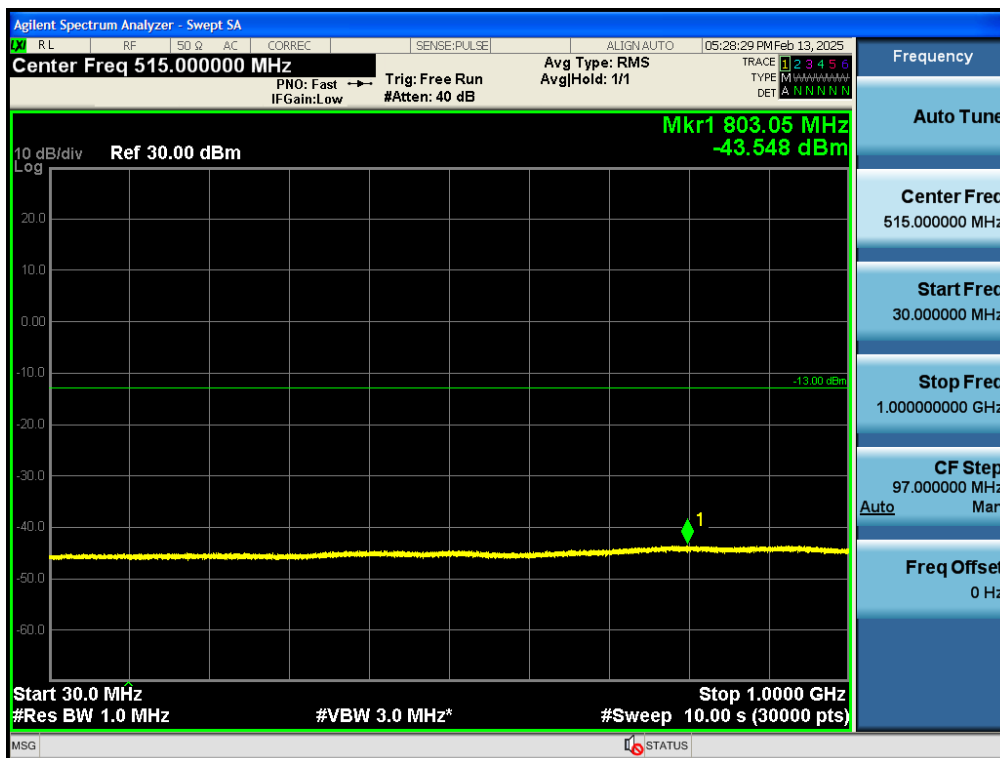
Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band4_1711.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



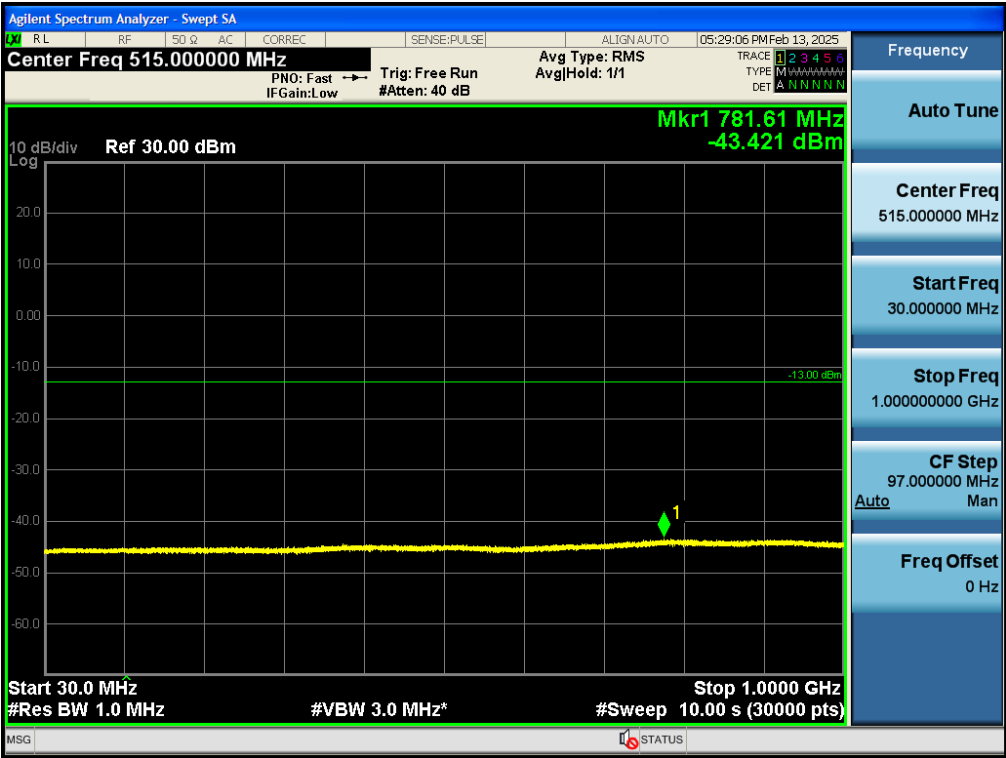
Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



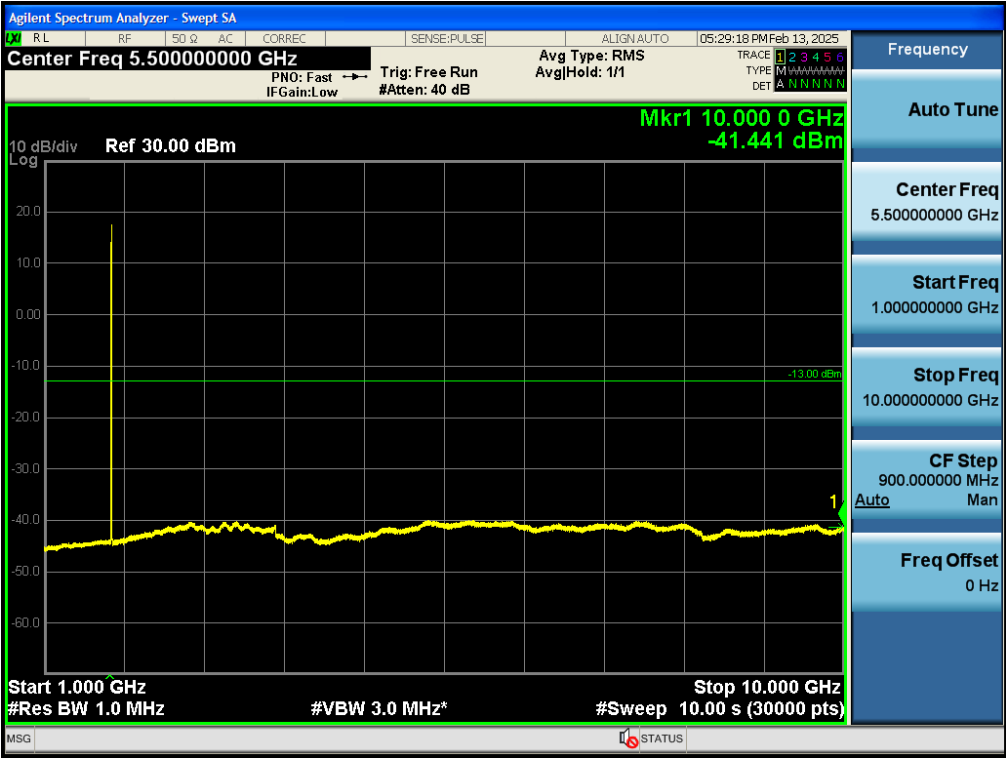
Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



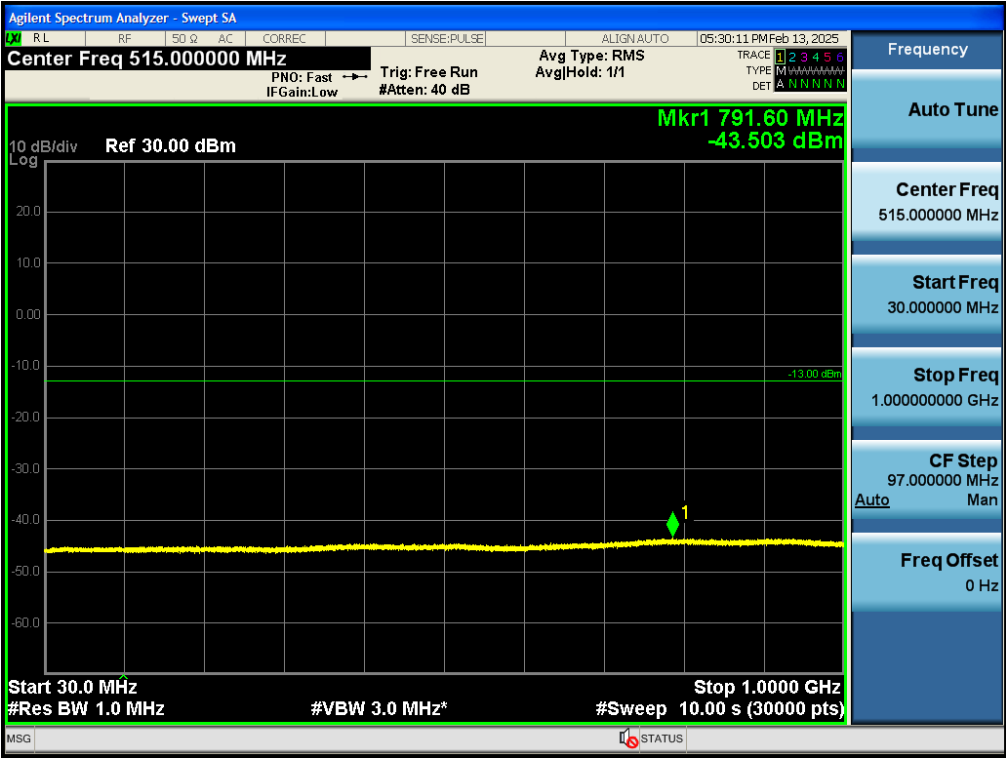
Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_30M_1G_TX



Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_1G_10G_TX



Test_Graph_band4_1753.5MHz_3M_QPSK_15RB#LOW_10G_20.0G_TX



Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



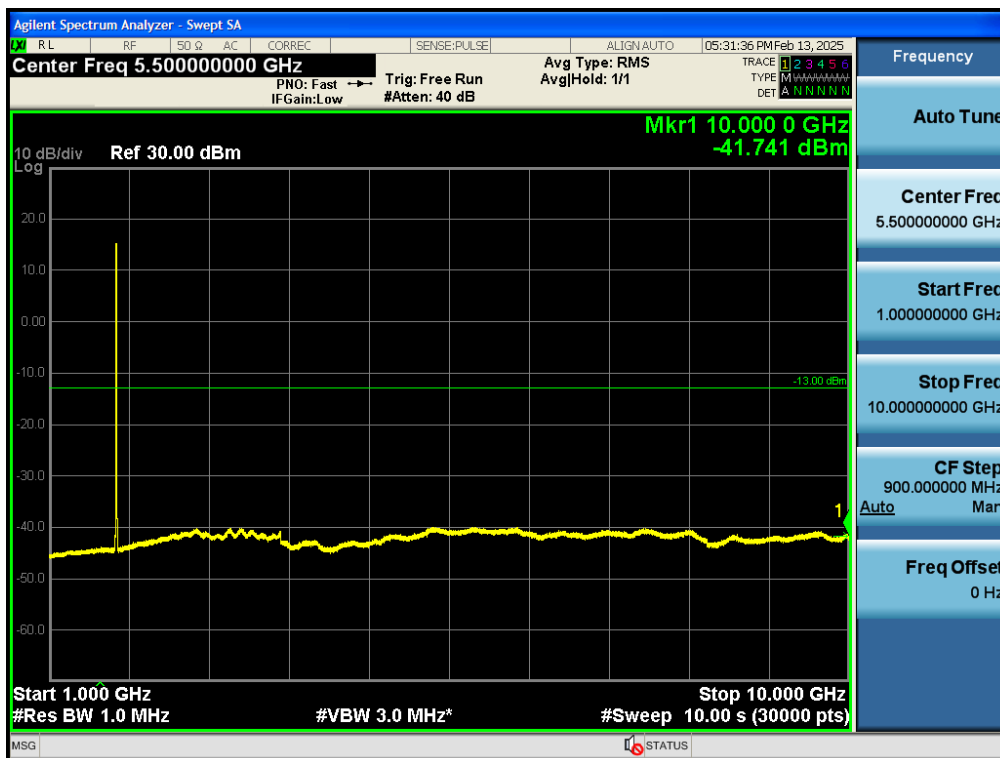
Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band4_1712.5MHz_5M_QPSK_25RB#LOW_10G_20.0G_TX



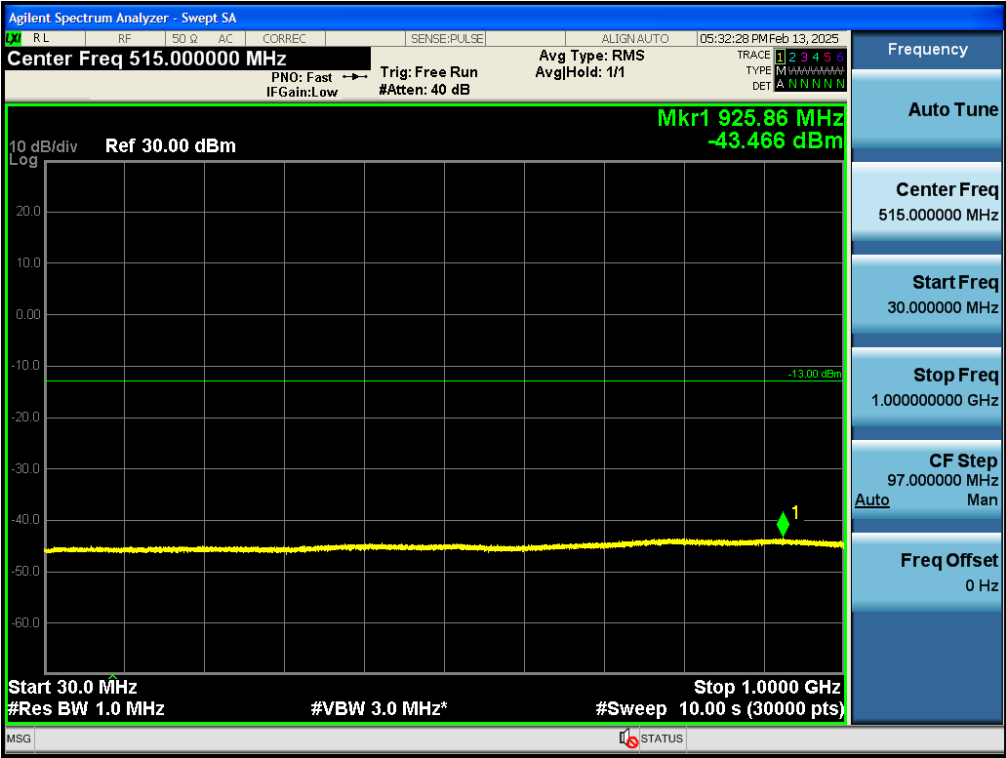
Test_Graph_band4_1752.5MHz_5M_QPSK_25RB#LOW_30M_1G_TX



Test_Graph_band4_1752.5MHz_5M_QPSK_25RB#LOW_1G_10G_TX



Test_Graph_band4_1752.5MHz_5M_QPSK_25RB#LOW_10G_20.0G_TX



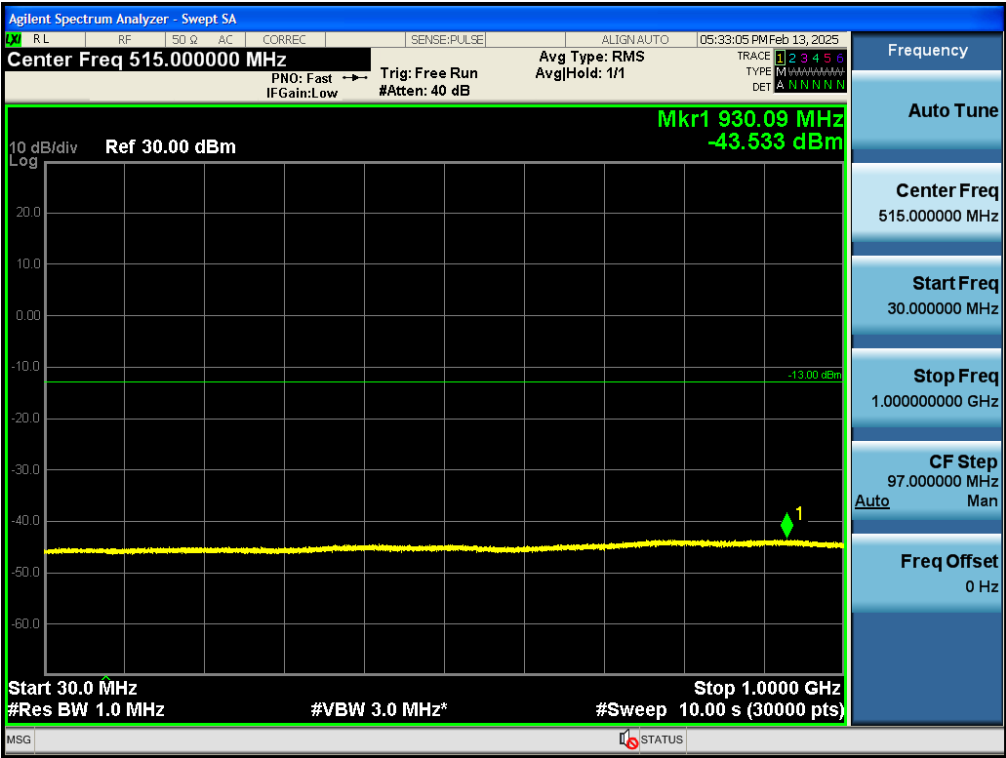
Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_30M_1G_TX



Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band4_1715MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



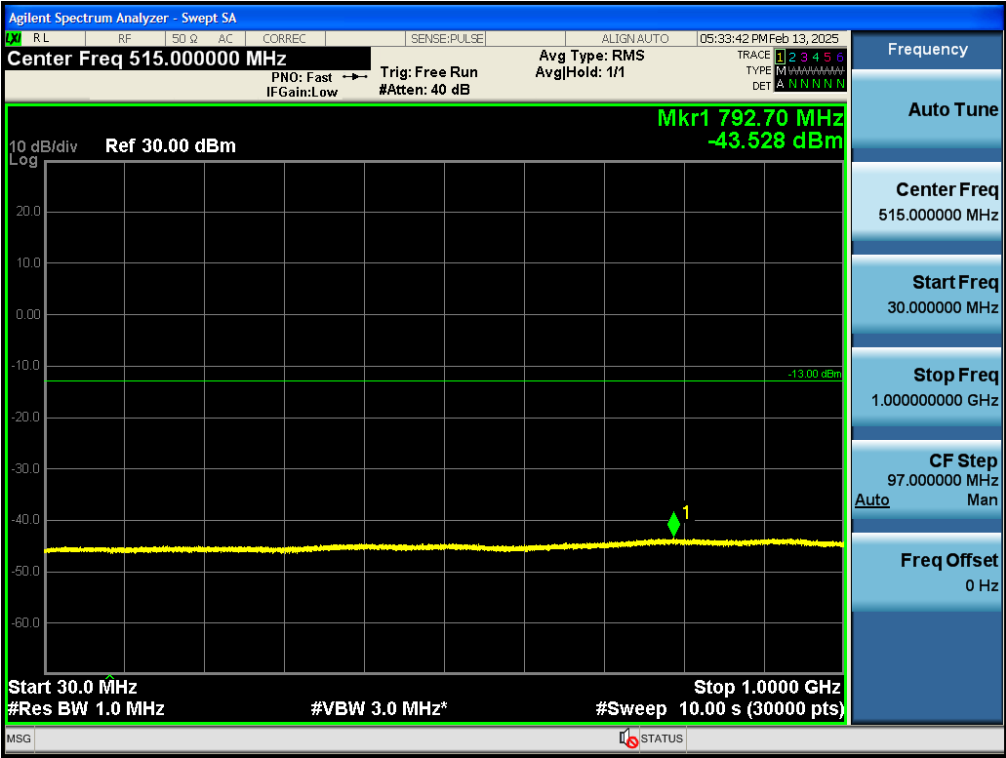
Test_Graph_band4_1732.5MHz_10M_QPSK_50RB#LOW_30M_1G_TX



Test_Graph_band4_1732.5MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_30M_1G_TX



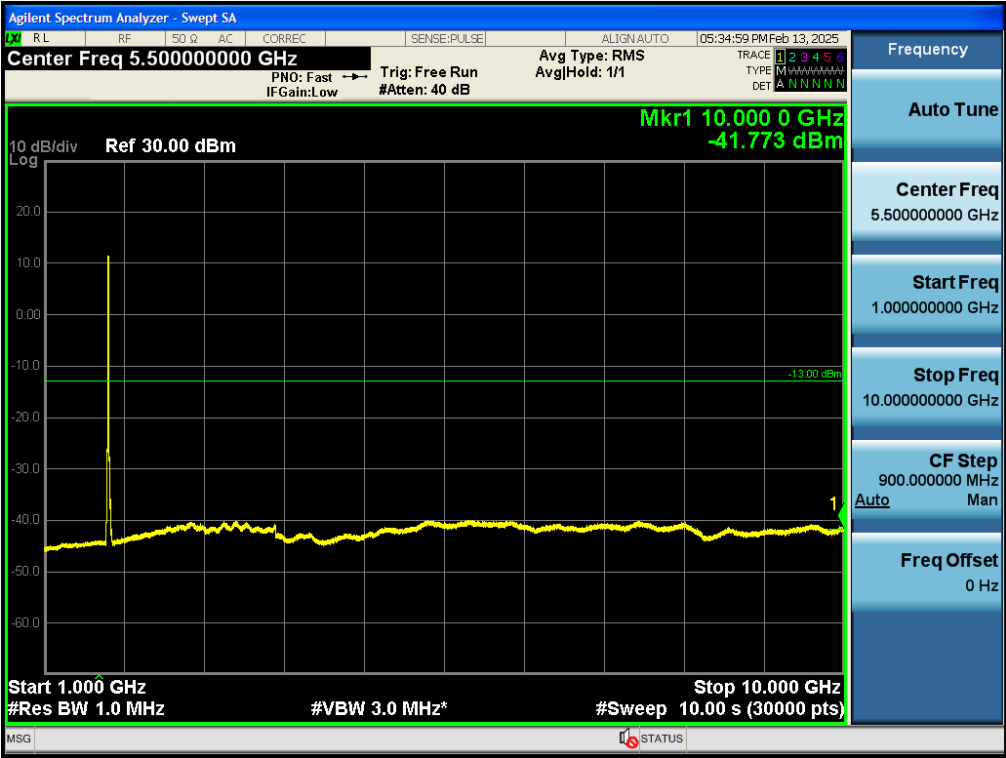
Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_1G_10G_TX



Test_Graph_band4_1750MHz_10M_QPSK_50RB#LOW_10G_20.0G_TX



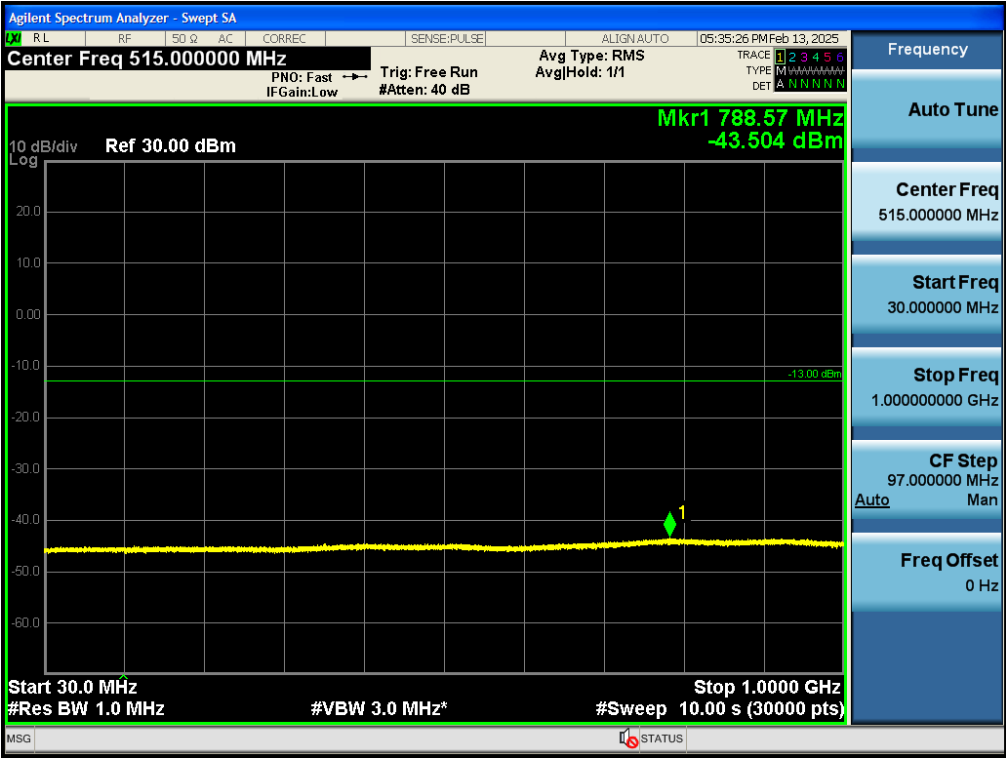
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



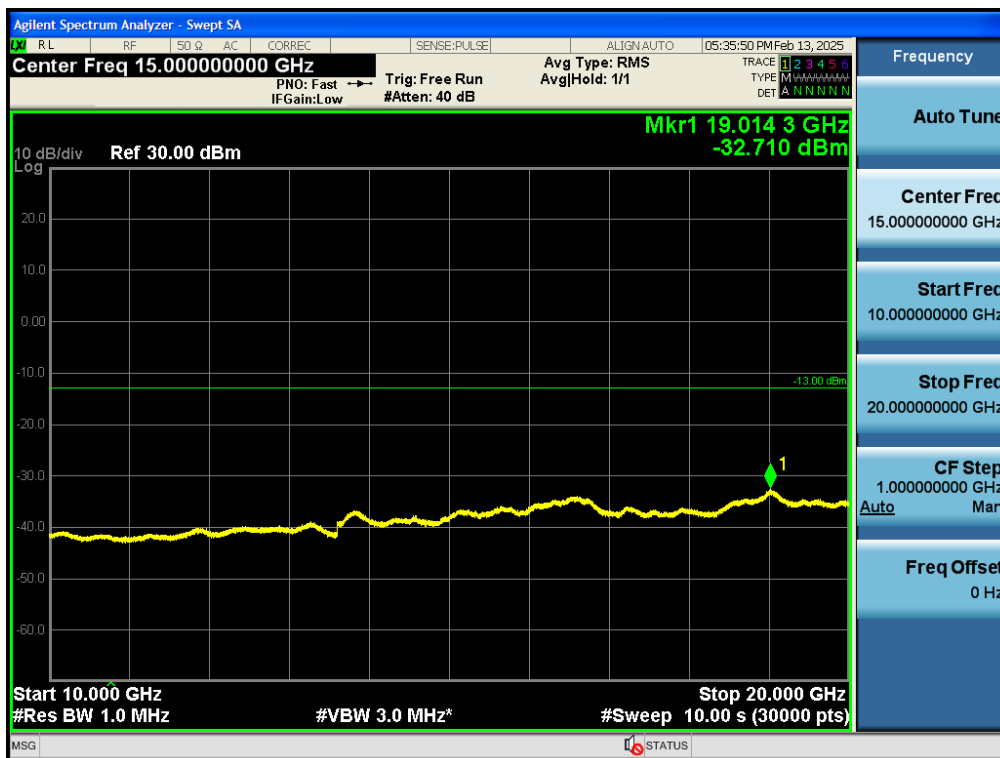
Test_Graph_band4_1717.5MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



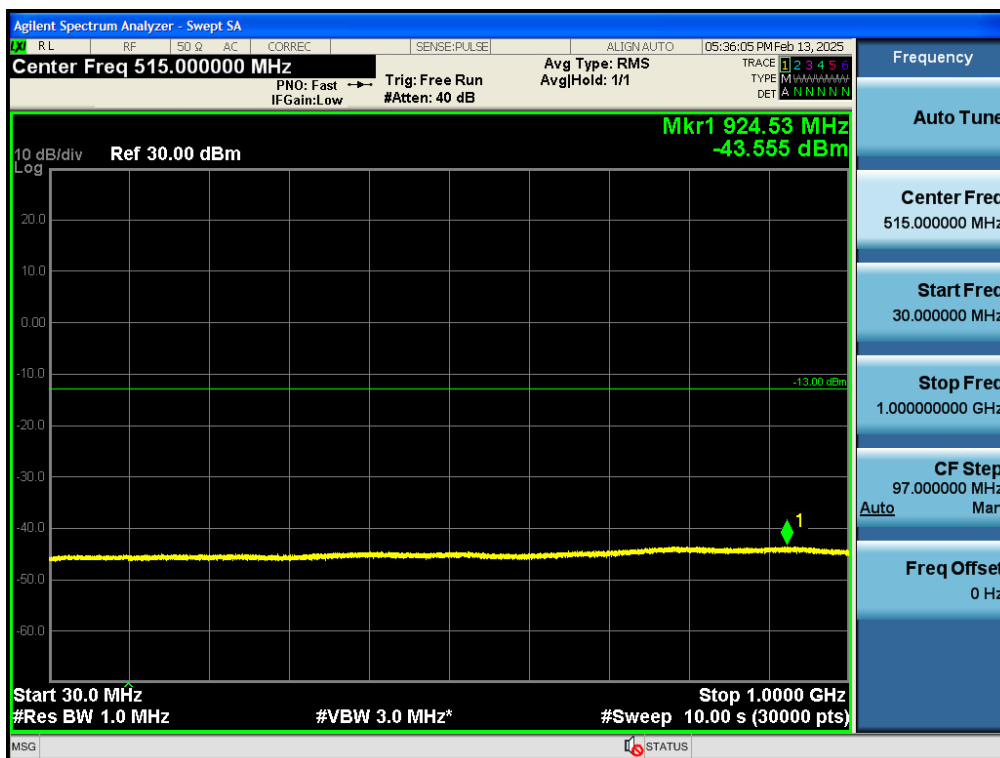
Test_Graph_band4_1732.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



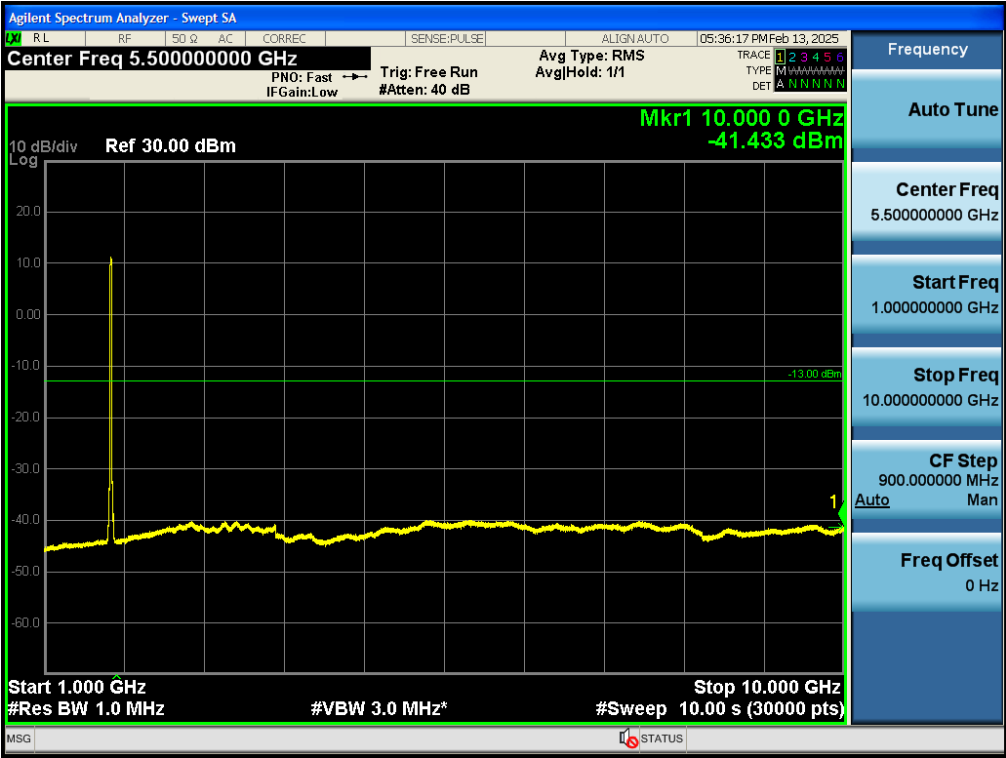
Test_Graph_band4_1732.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



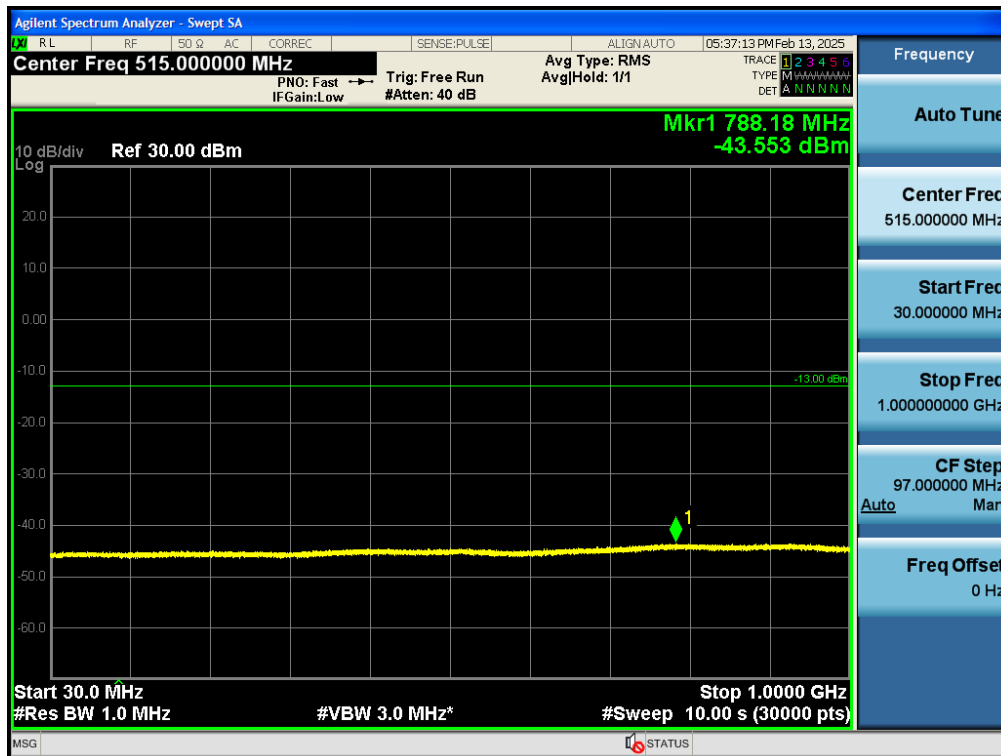
Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_30M_1G_TX



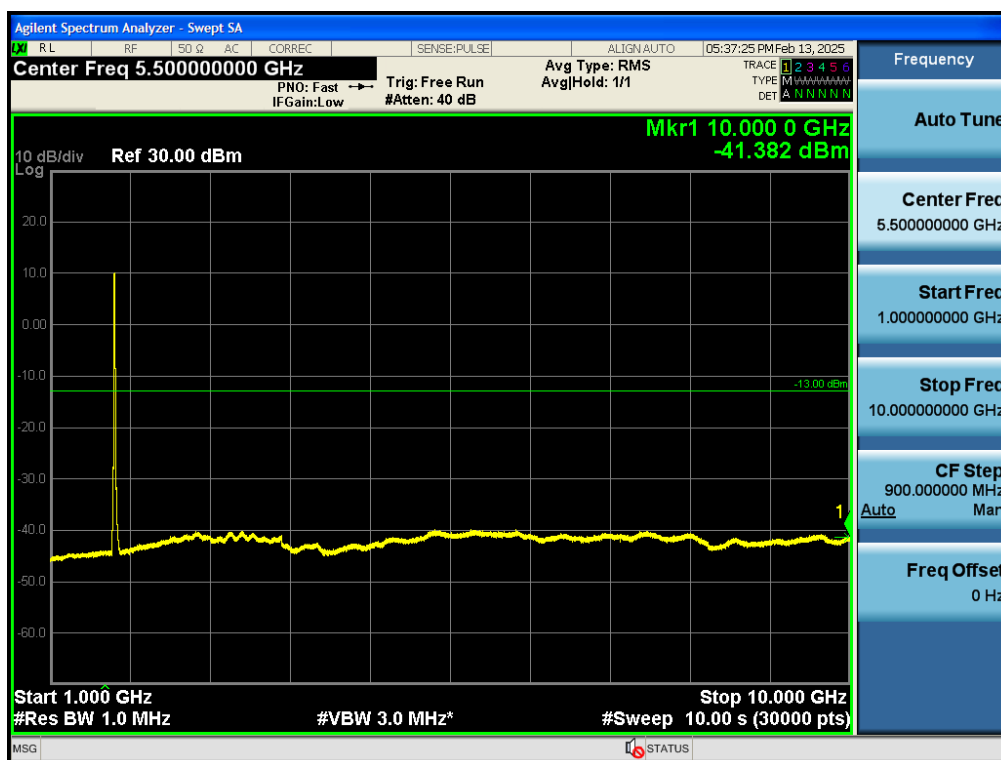
Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_1G_10G_TX



Test_Graph_band4_1747.5MHz_15M_QPSK_75RB#LOW_10G_20.0G_TX



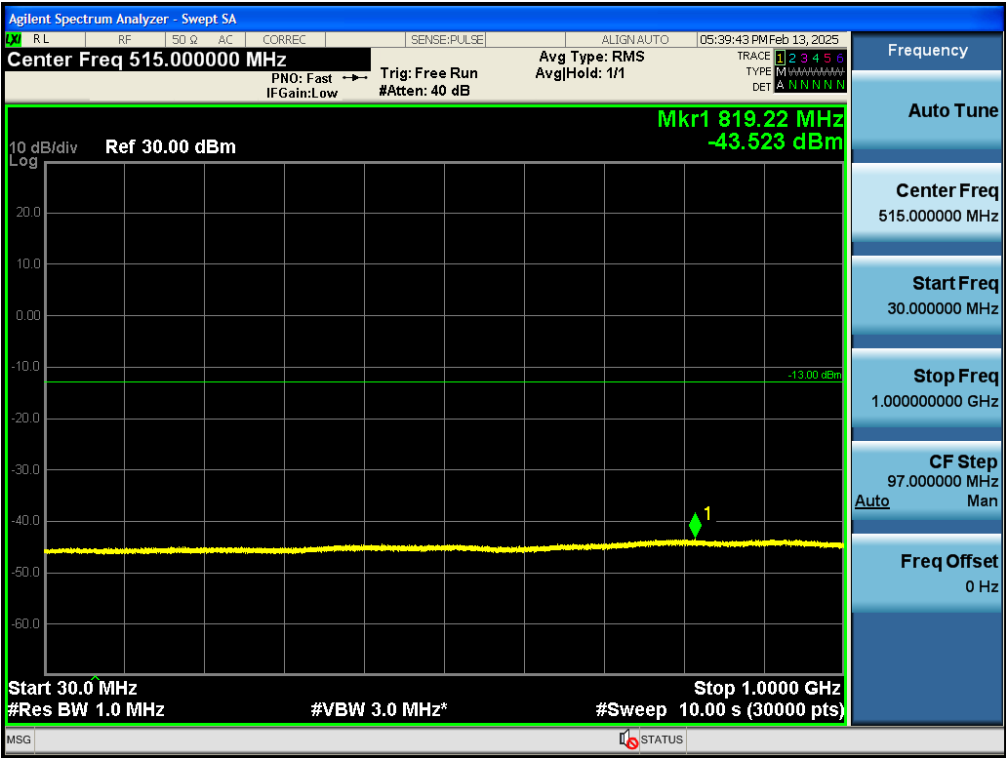
Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_30M_1G_TX



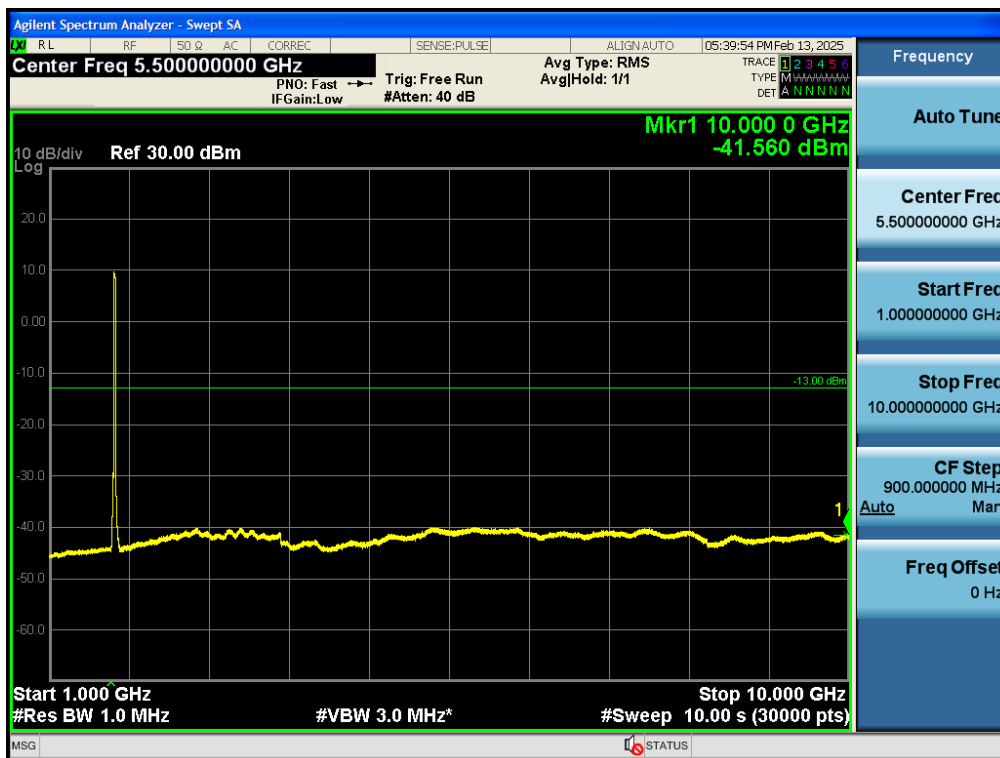
Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_1G_10G_TX



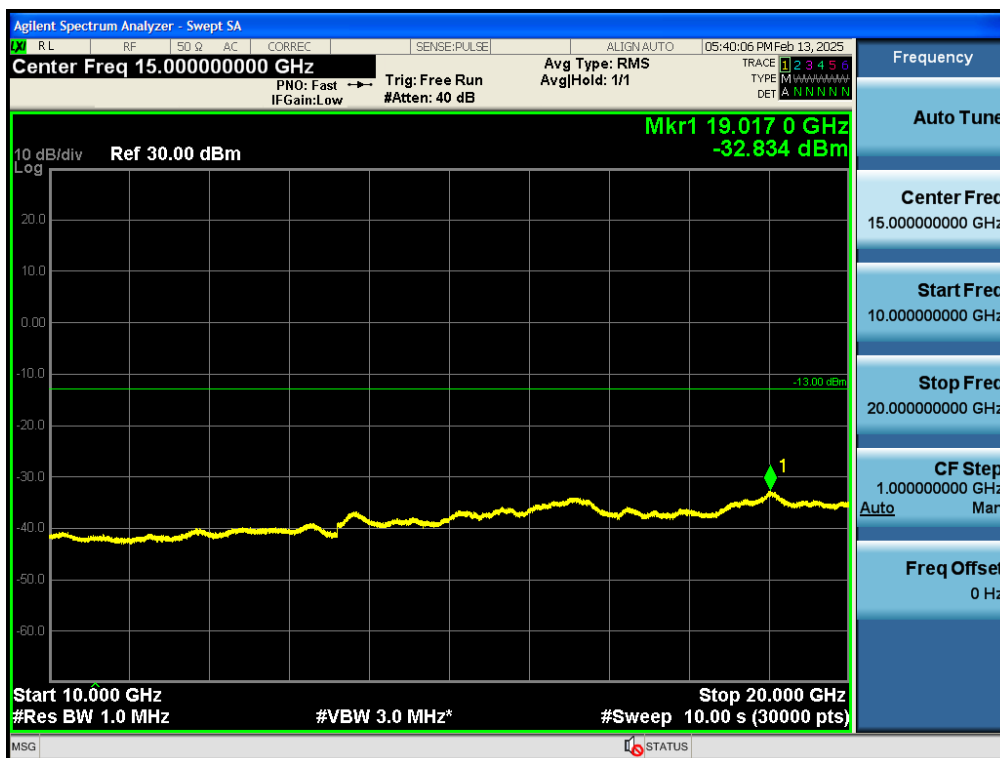
Test_Graph_band4_1720MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX



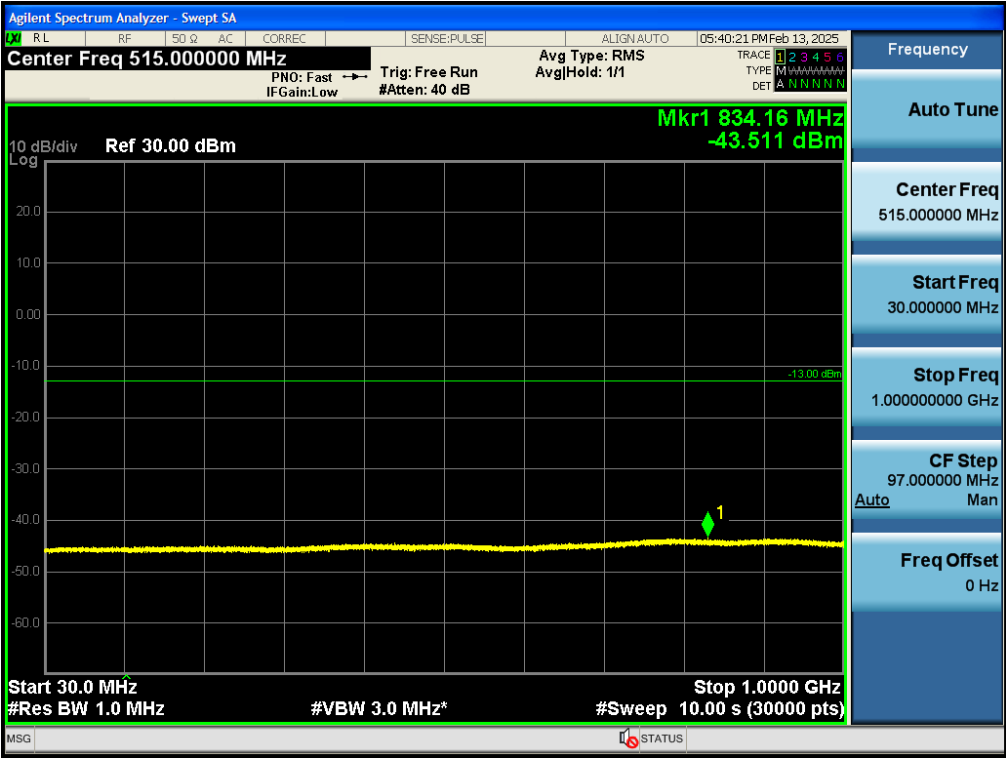
Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band4_1732.5MHz_20M_QPSK_100RB#LOW_1G_20.0G_TX



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_30M_1G_TX



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_1G_10G_TX



Test_Graph_band4_1745MHz_20M_QPSK_100RB#LOW_10G_20.0G_TX

Appendix E: Frequency stability

Test Result

Test Conditions		LTE Band 4(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0725	PASS
40	Normal Voltage	0.0436	
30	Normal Voltage	0.0236	
20(Ref.)	Normal Voltage	0.0348	
10	Normal Voltage	0.0696	
0	Normal Voltage	0.0269	
-10	Normal Voltage	0.0448	
-20	Normal Voltage	0.0480	
-30	Normal Voltage	0.0208	
20	Maximum Voltage	0.0246	
20	Normal Voltage	0.0356	
20	Battery End Point	0.0619	