

Appendix-B LTE NB-IoT Band 13

Effective (Isotropic) Radiated Power Output Data for NB

Test Result

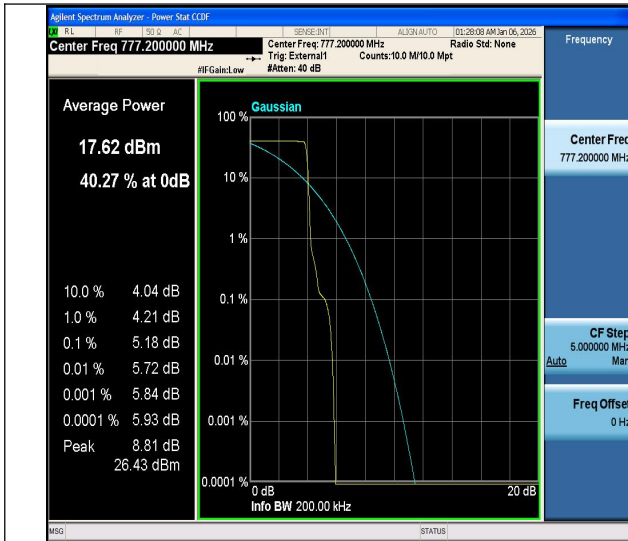
Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	ERP (dBm)	Limit	Verdict
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23182	1@0	21.09	23.39	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23182	1@0	21.04	23.34	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23182	1@47	21	23.3	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23182	1@47	20.92	23.22	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@0	20.88	23.18	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	20.85	23.15	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@47	20.86	23.16	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	20.83	23.13	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23278	1@0	20.96	23.26	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23278	1@0	21.03	23.33	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23278	1@47	20.98	23.28	44.77	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23278	1@47	20.91	23.21	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23182	1@0	21.02	23.32	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	1@0	21.02	23.32	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23182	1@11	20.93	23.23	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	1@11	20.96	23.26	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	19.77	22.07	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	19.77	22.07	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	19.67	21.97	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	19.7	22	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23278	1@0	21.03	23.33	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	1@0	21.02	23.32	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23278	1@11	20.93	23.23	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	1@11	20.94	23.24	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	3@3	20.02	22.32	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	3@3	19.92	22.22	44.77	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	3@3	20.13	22.43	44.77	PASS

Peak-to-Average Ratio(CCDF) for NB

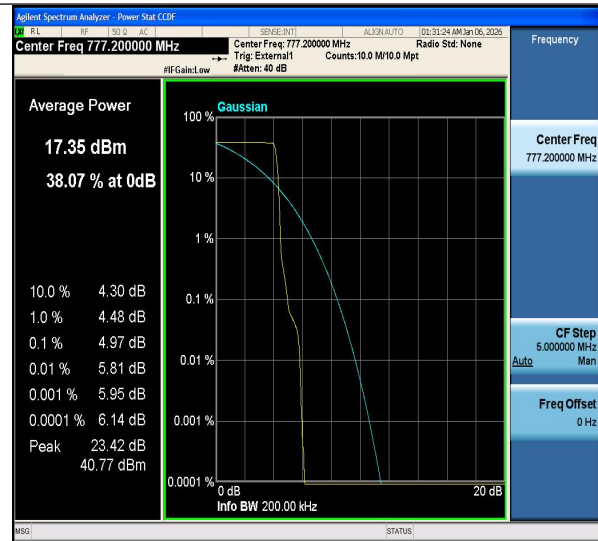
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23182	1@0	5.18	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23182	1@47	4.97	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	5.16	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	5.01	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23278	1@0	5.14	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23278	1@47	4.95	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	1@0	6.64	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	1@11	6.94	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	6.62	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	7.02	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	1@0	6.59	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	1@11	6.97	<=13	PASS

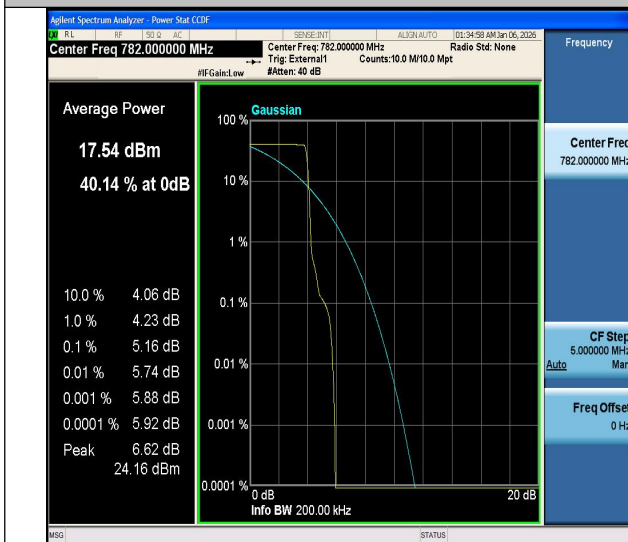
Test Graphs



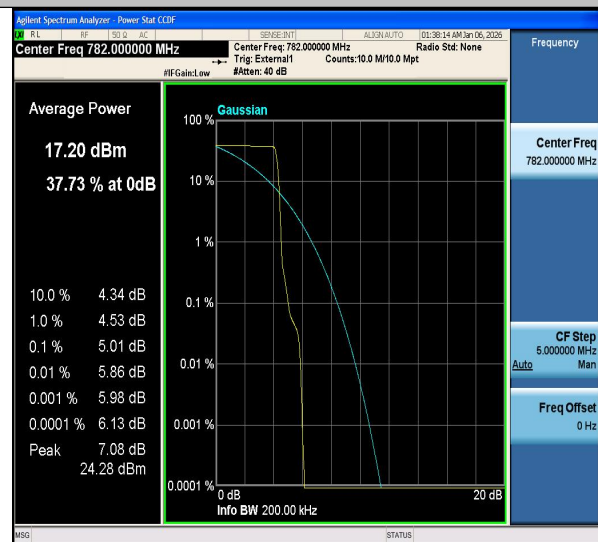
Band13-0.18-QPSK-23182-PASS



Band13-0.18-QPSK-23182-PASS



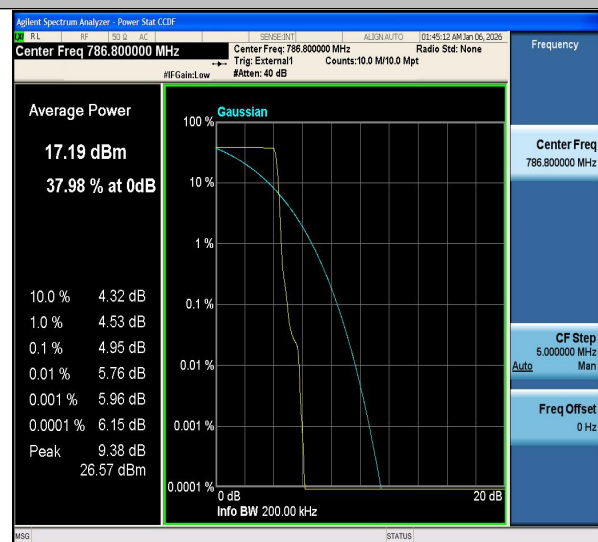
Band13-0.18-QPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



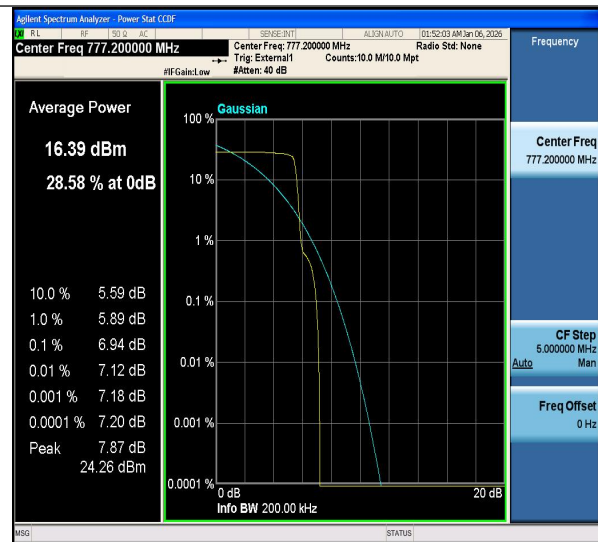
Band13-0.18-QPSK-23278-PASS



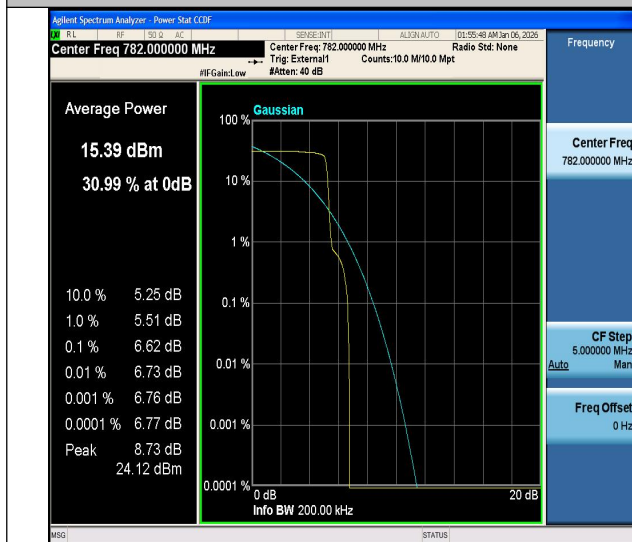
Band13-0.18-QPSK-23278-PASS



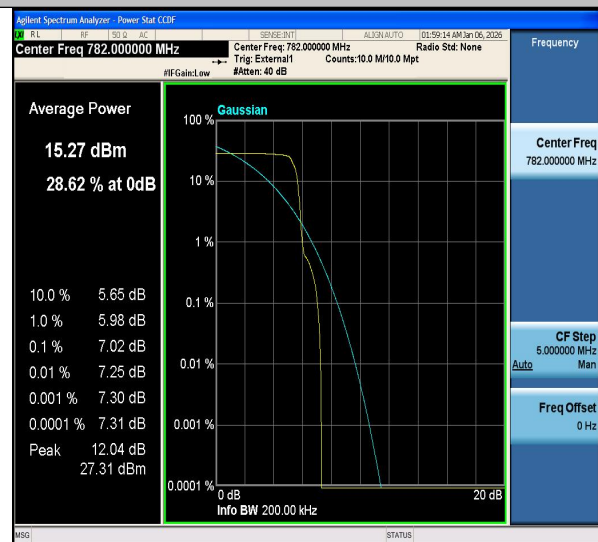
Band13-0.18-QPSK-23182-PASS



Band13-0.18-QPSK-23182-PASS



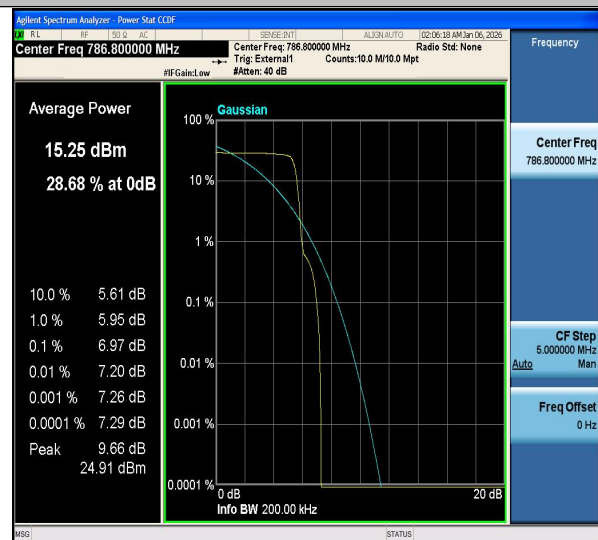
Band13-0.18-QPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



Band13-0.18-QPSK-23278-PASS



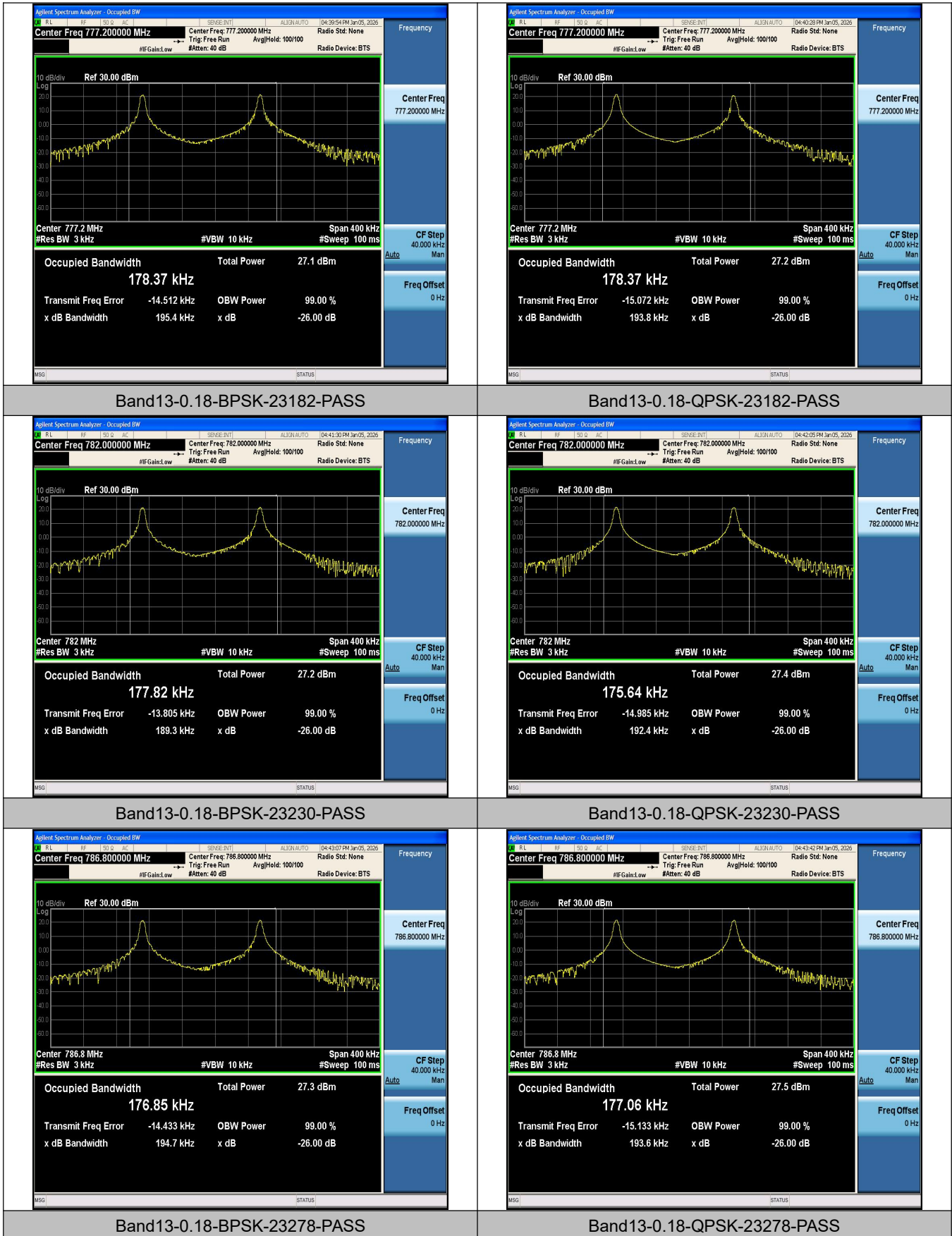
Band13-0.18-QPSK-23278-PASS

Emission Bandwidth for NB

Test Result

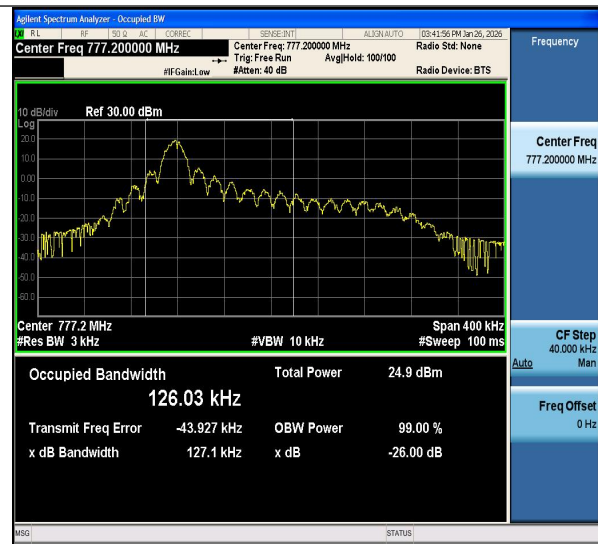
Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23182	1@0	0.17837	0.1954	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23182	1@0	0.17837	0.1938	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@0	0.17782	0.1893	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	0.17564	0.1924	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23278	1@0	0.17685	0.1947	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23278	1@0	0.17706	0.1936	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23182	1@0	0.12081	0.1146	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	1@0	0.12603	0.1271	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23182	12@0	0.19450	0.2247	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23182	12@0	0.19187	0.2132	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	0.12175	0.1042	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	0.11630	0.1026	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	12@0	0.19299	0.2266	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	0.19120	0.2127	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23278	1@0	0.12109	0.1020	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	1@0	0.11870	0.1150	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23278	12@0	0.19381	0.2266	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23278	12@0	0.19240	0.2212	PASS

Test Graphs





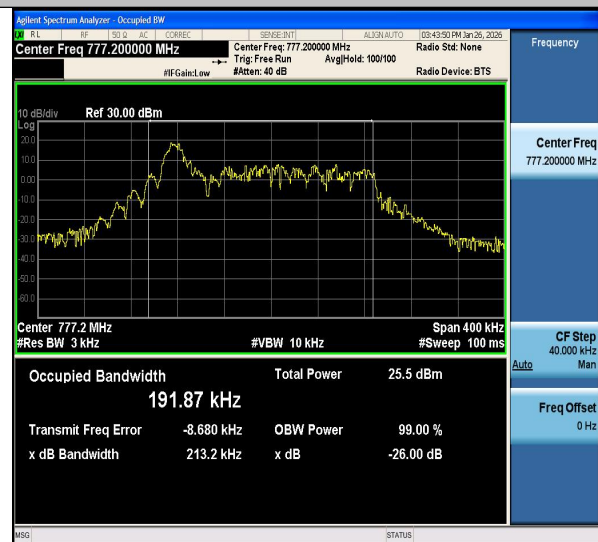
Band13-0.18-BPSK-23182-PASS



Band13-0.18-QPSK-23182-PASS



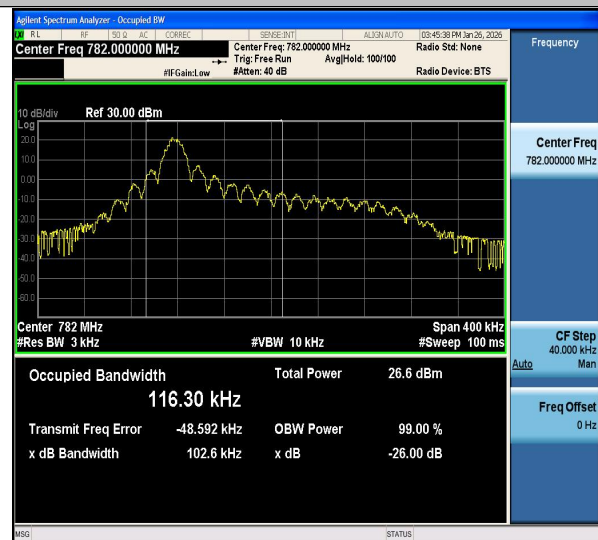
Band13-0.18-BPSK-23182-PASS



Band13-0.18-QPSK-23182-PASS



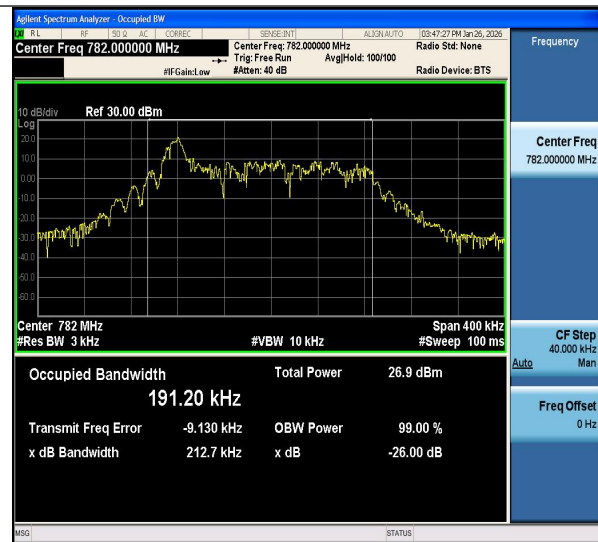
Band13-0.18-BPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



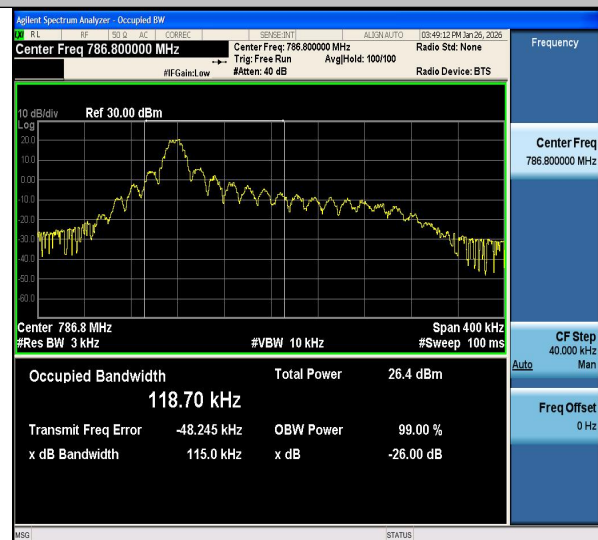
Band13-0.18-BPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



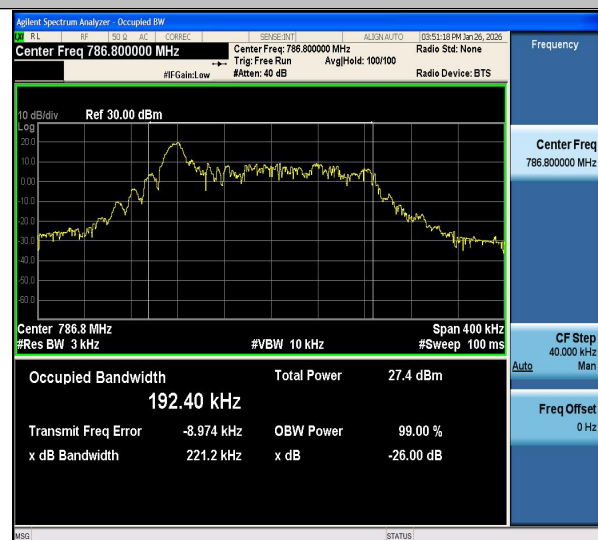
Band13-0.18-BPSK-23278-PASS



Band13-0.18-QPSK-23278-PASS



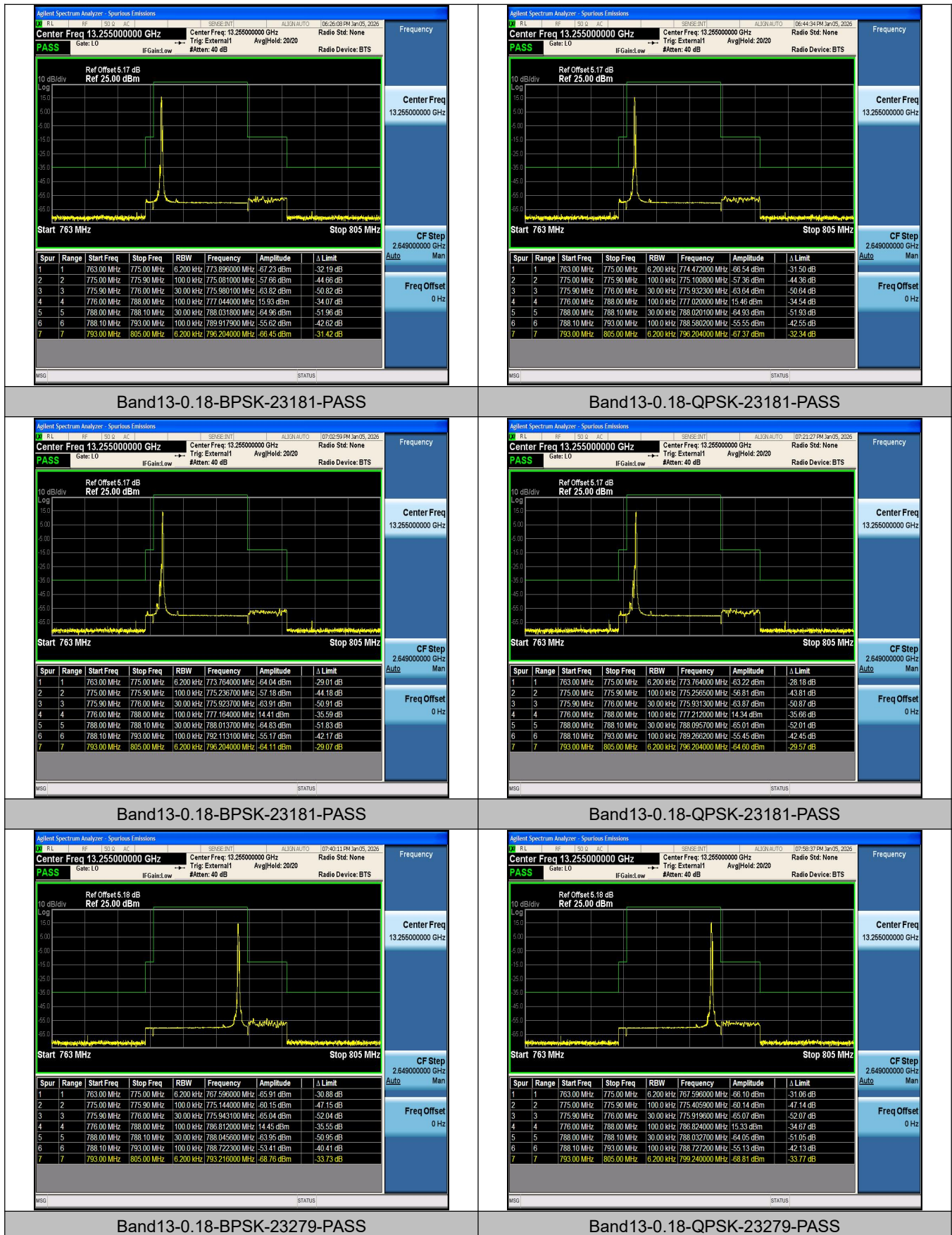
Band13-0.18-BPSK-23278-PASS

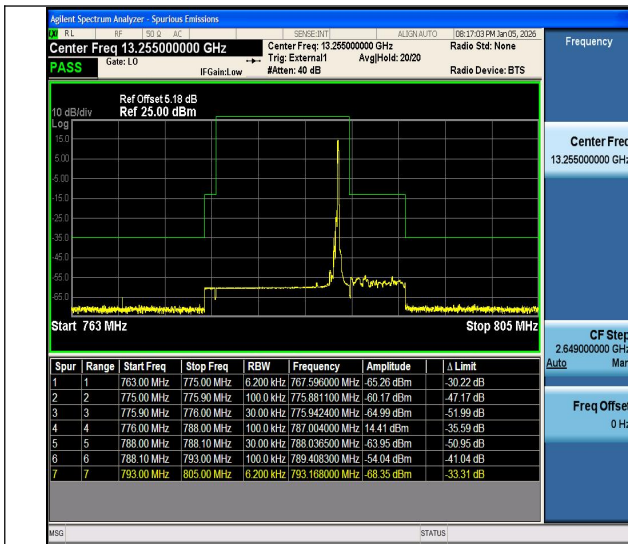


Band13-0.18-QPSK-23278-PASS

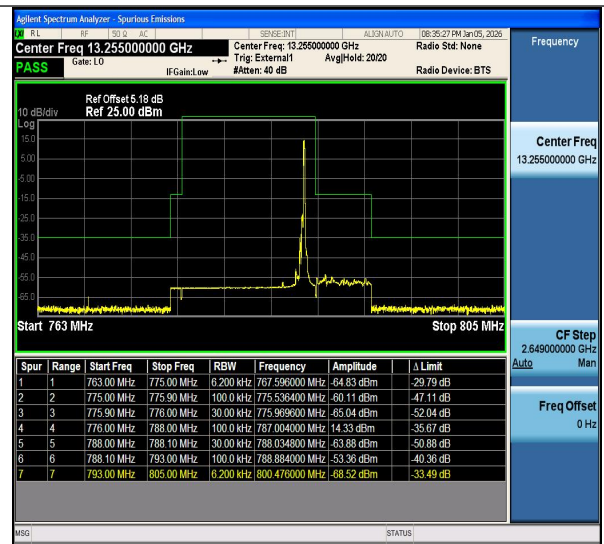
Band Edge for NB

Test Graphs

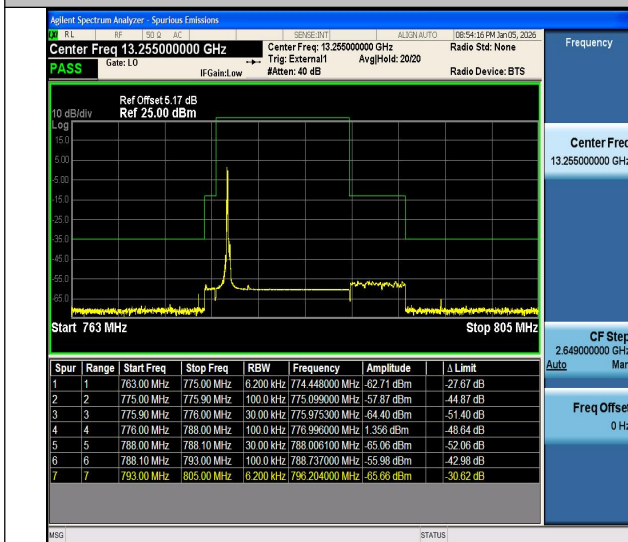




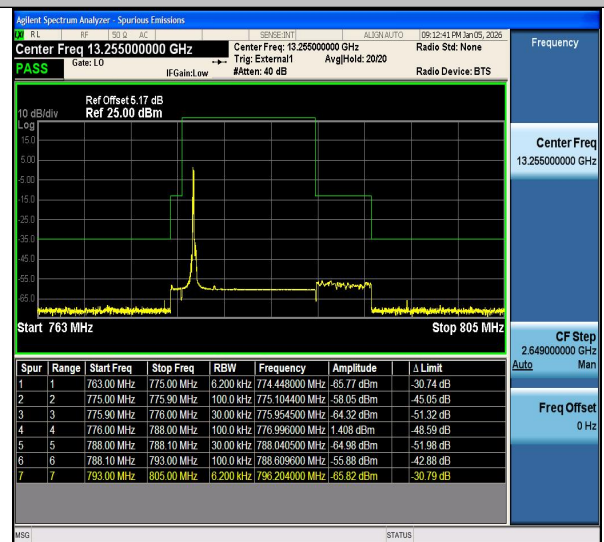
Band13-0.18-BPSK-23279-PASS



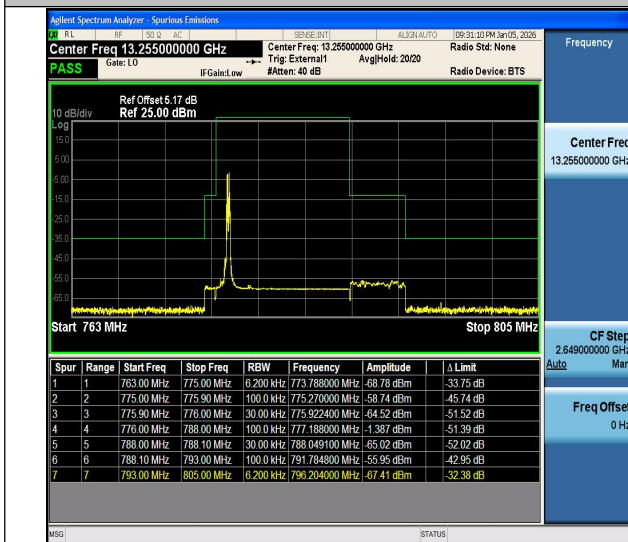
Band13-0.18-QPSK-23279-PASS



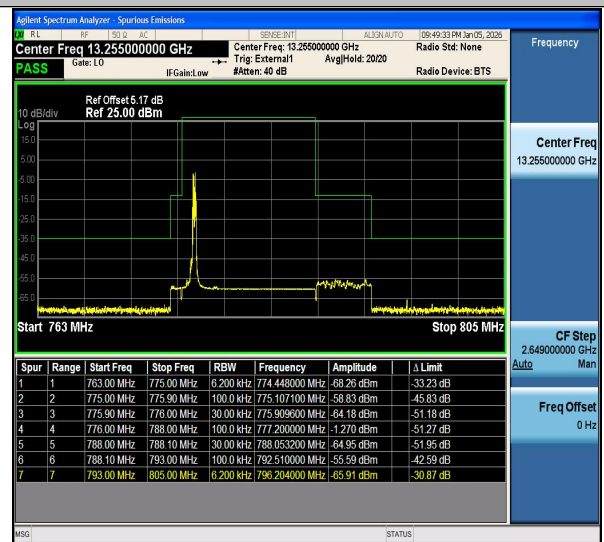
Band13-0.18-BPSK-23181-PASS



Band13-0.18-QPSK-23181-PASS



Band13-0.18-BPSK-23181-PASS



Band13-0.18-QPSK-23181-PASS