Appendix for Band 12

Product Name: Smart Solar Light Controller
Model No: SCC-120-NBG

Appendix A: Average Power Output Data for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@0	20.40	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@47	20.40	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@0	20.45	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@47	20.47	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@0	20.20	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@47	20.18	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	20.44	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	20.39	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	20.43	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	20.45	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	20.21	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	20.14	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	20.58	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	20.51	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	20.71	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	20.57	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	20.52	PASS
Band12	Stand-Al	15kH	NaN	BPSK	23179	1@11	20.42	PASS

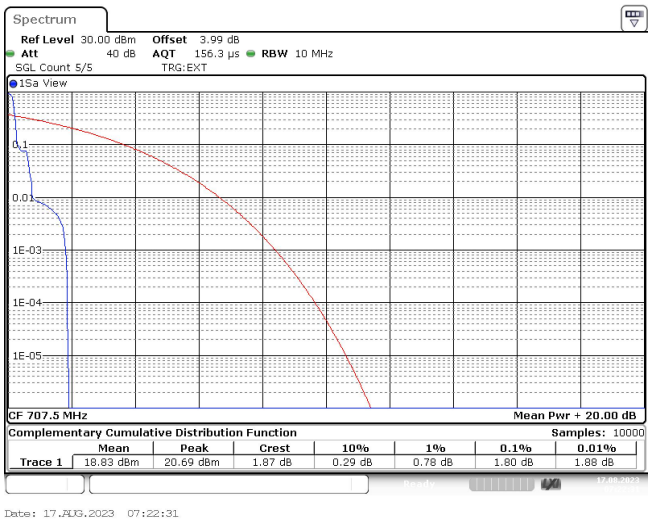
	one	z						
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@0	20.6	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@11	20.53	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	3@3	20.45	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	20.73	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	20.62	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	3@3	20.38	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@0	20.35	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@11	20.26	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	3@3	20.28	PASS

Appendix B: Peak-to-Average Ratio(CCDF) for NB1

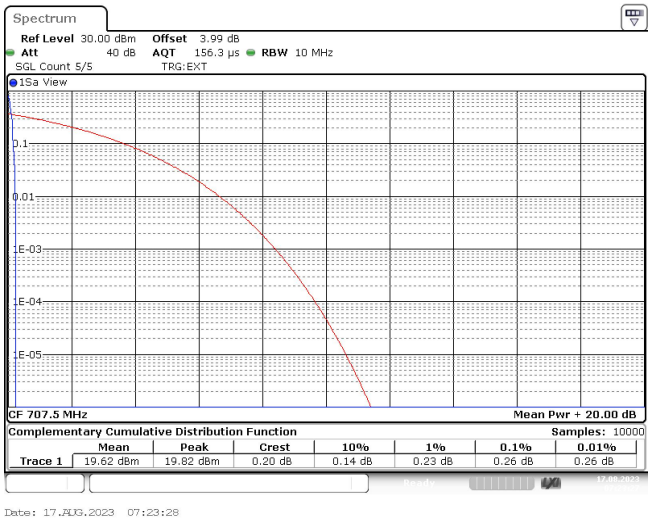
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@0	1.8	<=13	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@47	0.26	<=13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	0.23	<=13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	0.23	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	1.42	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	1.51	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	1.42	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	0.58	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	3@3	3.77	<=13	PASS

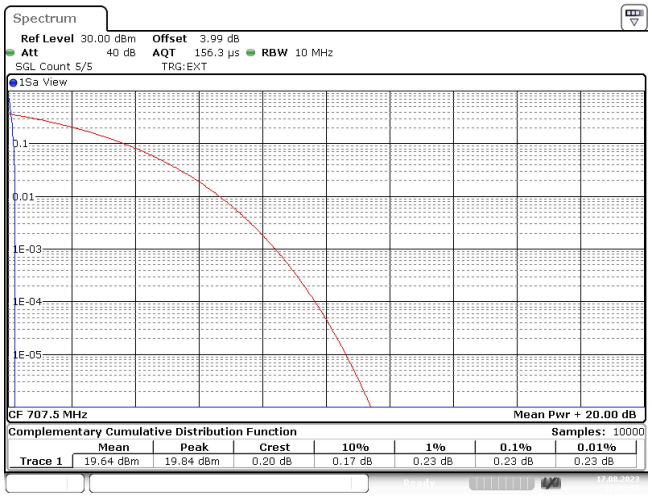
Test Graphs



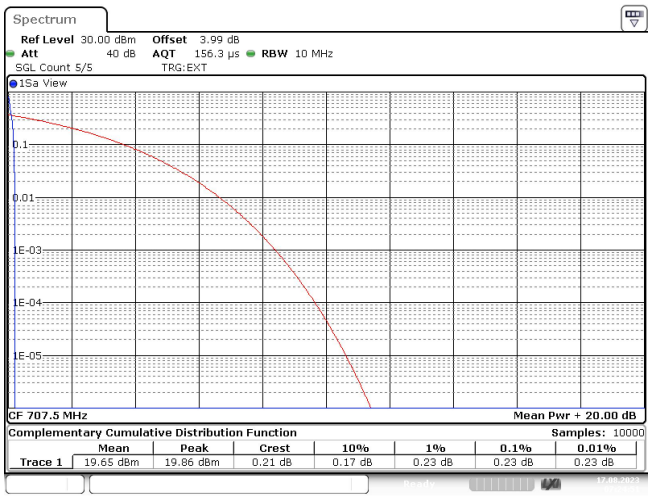
Band12-Stand-Alone-NaN-BPSK-23095-1@0-3.75kHz-1.8-<=13-PASS



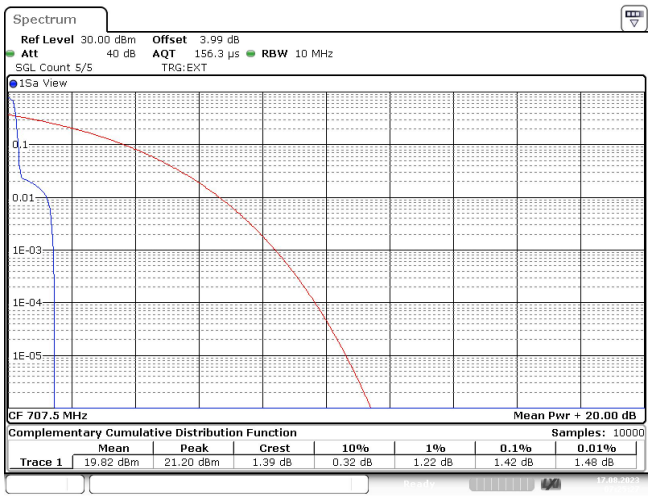
Band12-Stand-Alone-NaN-BPSK-23095-1@47-3.75kHz-0.26-<=13-PASS



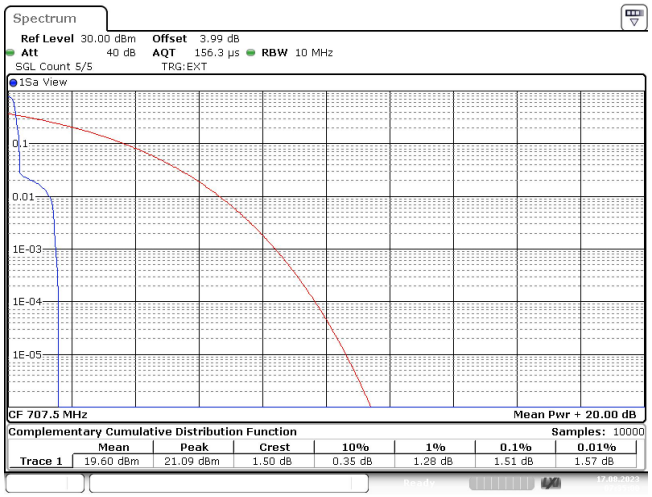
Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-0.23-<=13-PASS



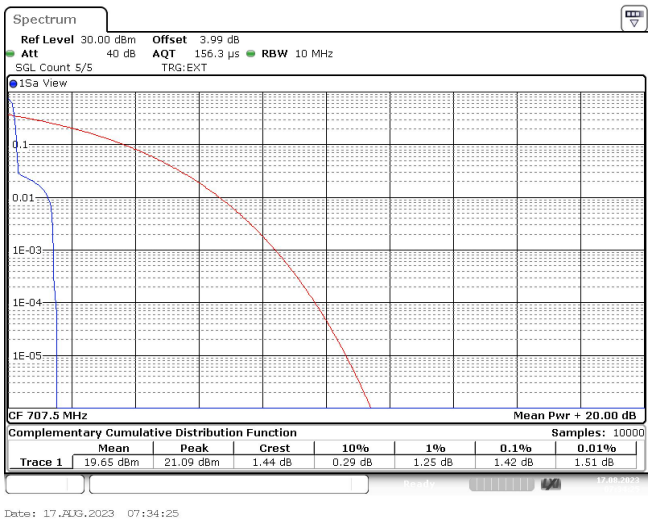
Band12-Stand-Alone-NaN-QPSK-23095-1@47-3.75kHz-0.23-<=13-PASS



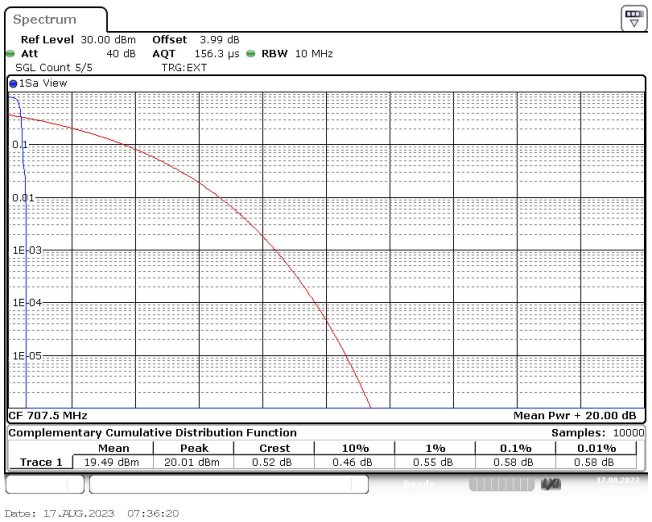
Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-1.42-<=13-PASS



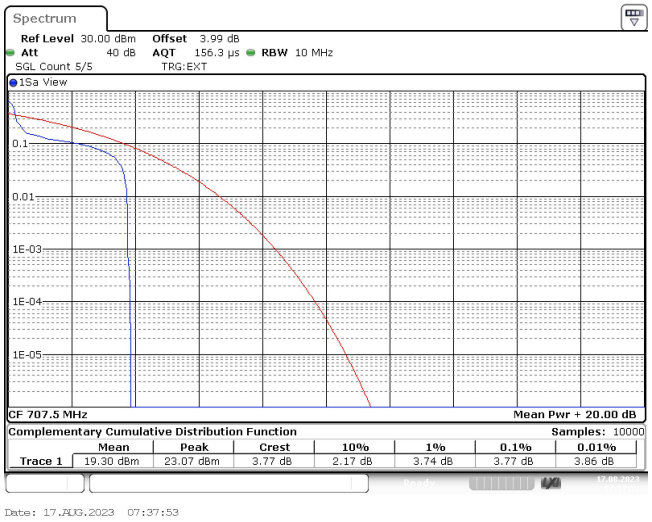
Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-1.51-<=13-PASS



Band12-Stand-Alone-NaN-QPSK-23095-1@0-15kHz-1.42-<=13-PASS



Band12-Stand-Alone-NaN-QPSK-23095-1@11-15kHz-0.58-<=13-PASS



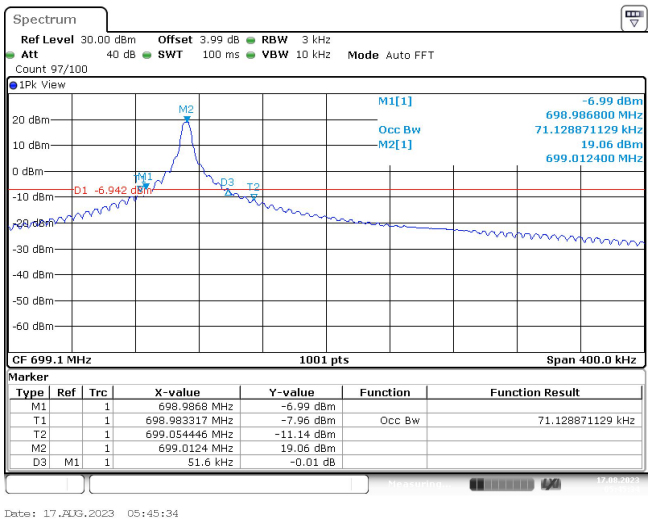
Band12-Stand-Alone-NaN-QPSK-23095-3@3-15kHz-3.77-<=13-PASS

Appendix C: Emission Bandwidth for NB1

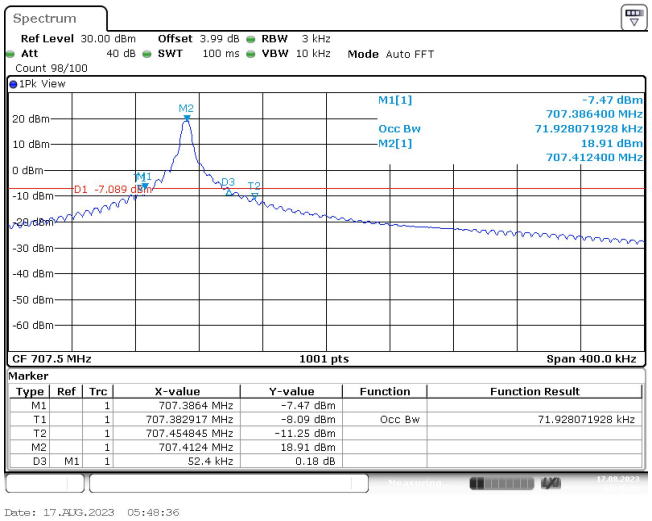
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@0	0.071	0.052	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@0	0.072	0.052	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@0	0.072	0.052	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	0.086	0.052	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	0.085	0.052	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	0.086	0.052	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	0.132	0.107	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	12@0	0.184	0.250	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	0.132	0.107	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	12@0	0.184	0.250	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	0.132	0.107	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	12@0	0.195	0.225	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@0	0.129	0.118	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	0.191	0.225	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	0.13	0.118	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	12@0	0.184	0.250	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@0	0.129	0.118	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	0.184	0.250	PASS

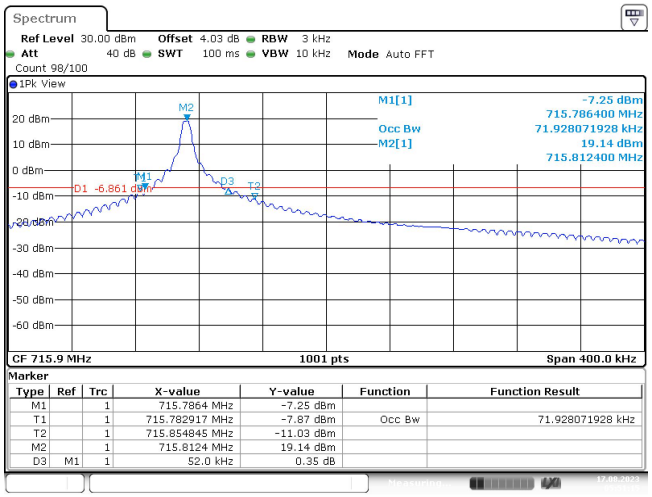
Test Graphs



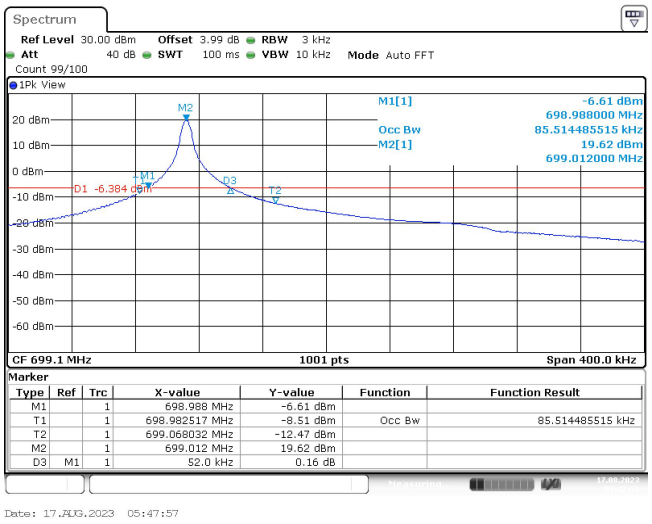
Band12-Stand-Alone-NaN-BPSK-23011-1@0-3.75kHz-0.052-0.071-PASS



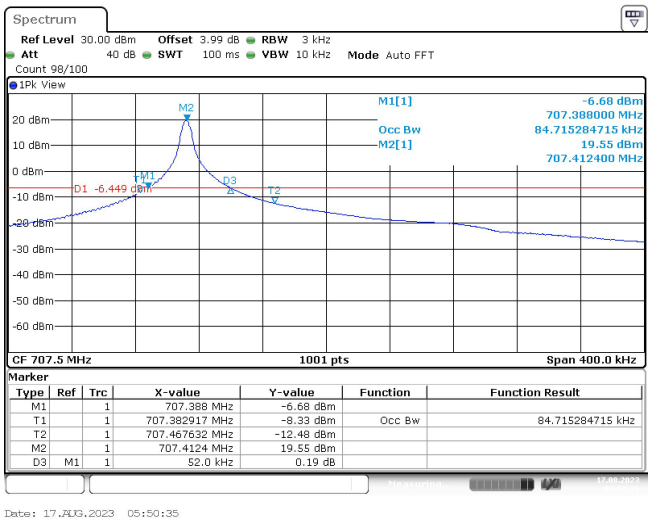
Band12-Stand-Alone-NaN-BPSK-23095-1@0-3.75kHz-0.052-0.072-PASS



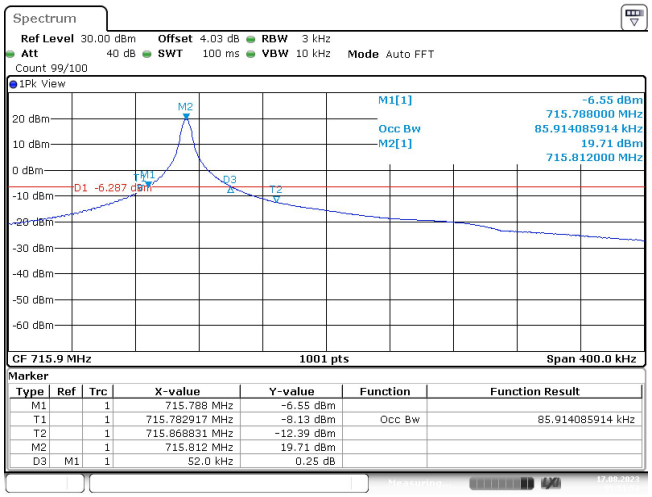
Band12-Stand-Alone-NaN-BPSK-23179-1@0-3.75kHz-0.052-0.072-PASS



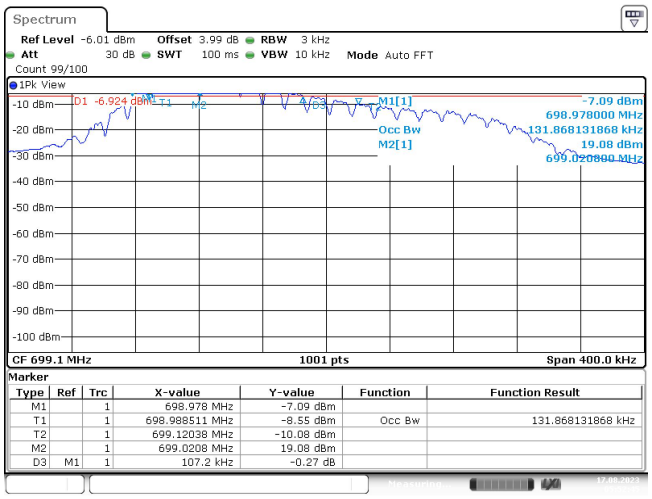
Band12-Stand-Alone-NaN-QPSK-23011-1@0-3.75kHz-0.052-0.086-PASS



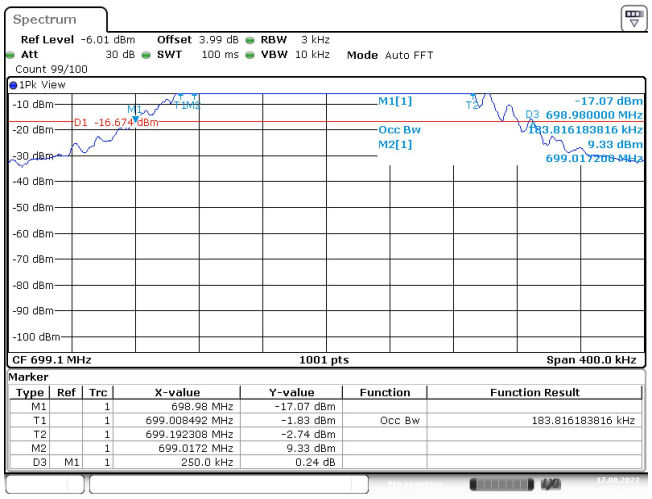
Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-0.052-0.085-PASS



Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-0.052-0.086-PASS



Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-0.107-0.132-PASS



Band12-Stand-Alone-NaN-BPSK-23011-12@0-15kHz-0.250-0.184-PASS