Appendix for Band 13

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
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@0	20.99	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@47	20.97	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@0	20.31	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@47	20.26	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@0	19.92	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@47	19.88	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	21.00	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	21.01	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	20.27	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	20.19	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	19.79	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	19.74	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	21.31	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	21.20	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	20.41	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	20.29	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	20.04	PASS
Band13	Stand-Al	15kH	NaN	BPSK	23279	1@11	19.97	PASS

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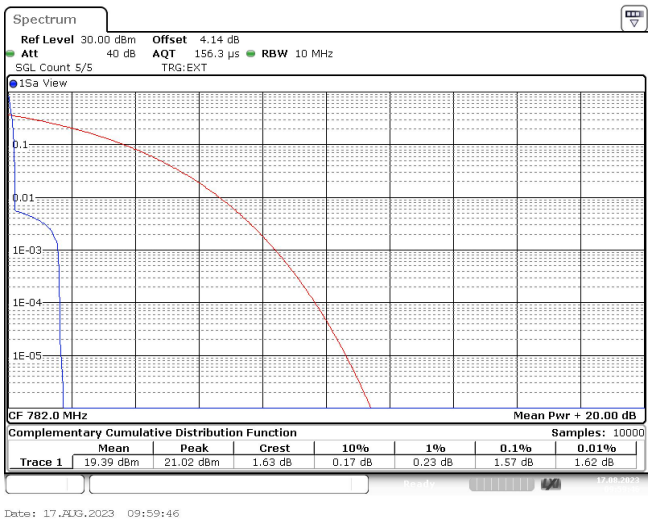
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@0	21.38	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@11	21.29	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	3@3	20.92	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	20.43	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	20.31	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	3@3	20.25	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@0	20.02	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@11	20.01	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	3@3	19.94	PASS

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

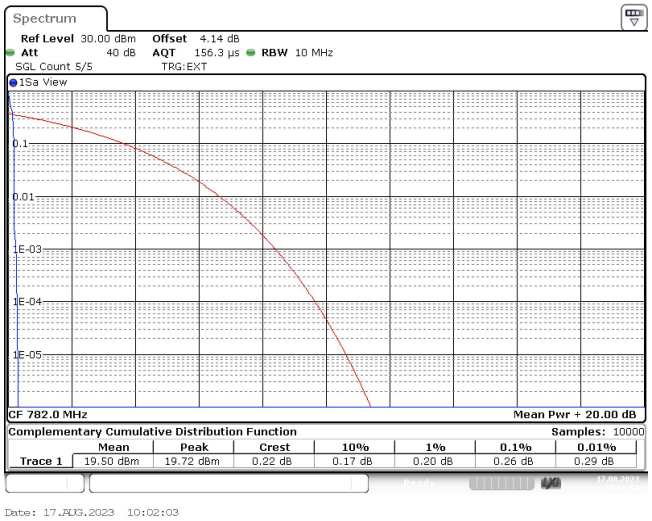
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@0	1.57	<=13	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@47	0.26	<=13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	0.26	<=13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	0.26	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	1.33	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	0.55	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	1.48	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	1.42	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	3@3	3.59	<=13	PASS

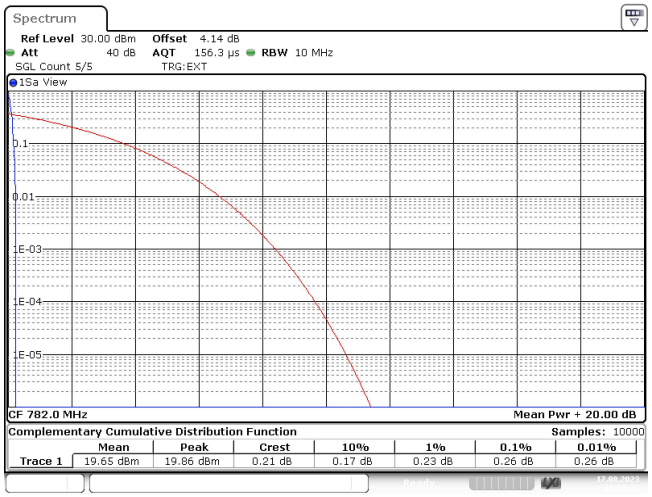
Test Graphs



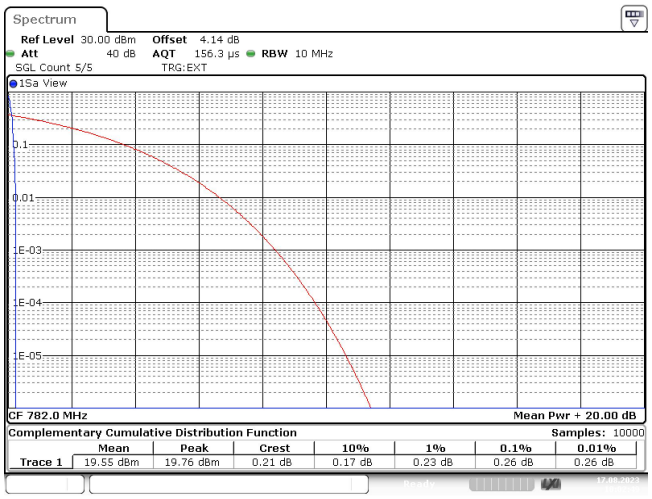
Band13-Stand-Alone-NaN-BPSK-23230-1@0-3.75kHz-1.57-<=13-PASS



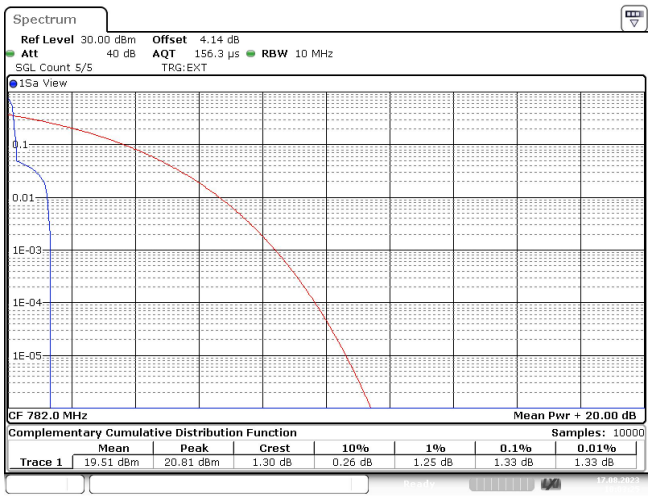
Band13-Stand-Alone-NaN-BPSK-23230-1@47-3.75kHz-0.26-<=13-PASS



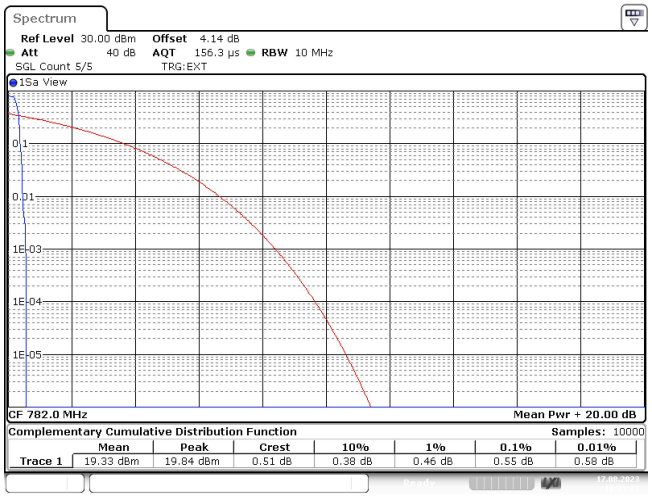
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-0.26-<=13-PASS



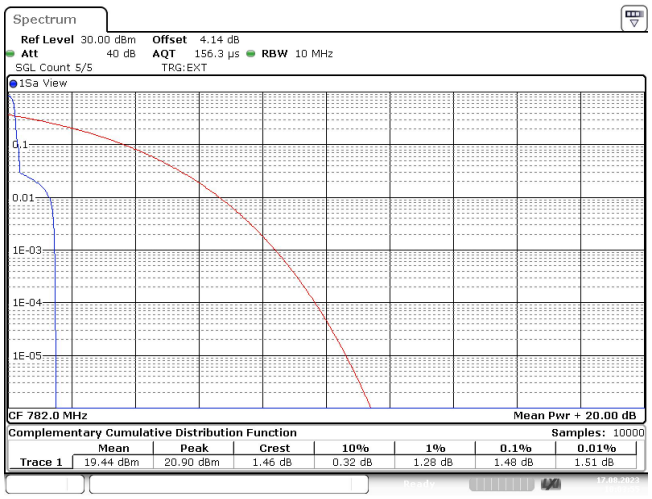
Band13-Stand-Alone-NaN-QPSK-23230-1@47-3.75kHz-0.26-<=13-PASS



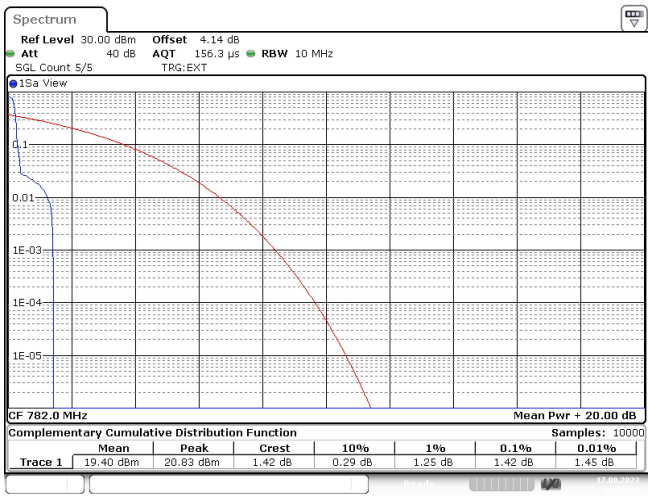
Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-1.33-<=13-PASS



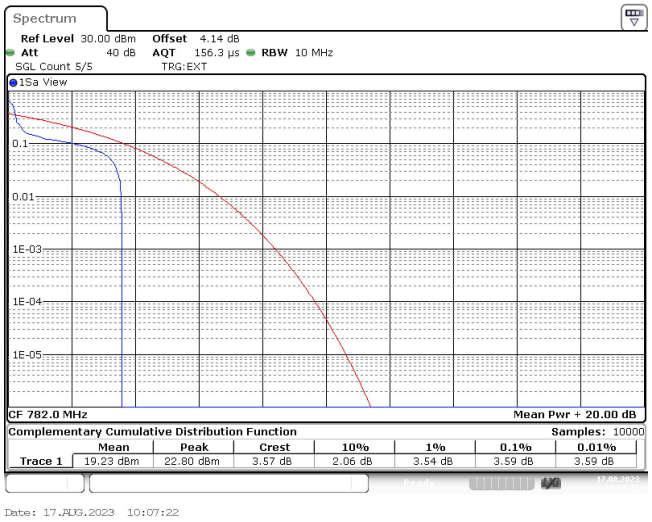
Band13-Stand-Alone-NaN-BPSK-23230-1@11-15kHz-0.55-<=13-PASS



Band13-Stand-Alone-NaN-QPSK-23230-1@0-15kHz-1.48-<=13-PASS



Band13-Stand-Alone-NaN-QPSK-23230-1@11-15kHz-1.42-<=13-PASS



Band13-Stand-Alone-NaN-QPSK-23230-3@3-15kHz-3.59-<=13-PASS

Appendix C: Emission Bandwidth for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@0	0.078	0.055	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@0	0.171	0.192	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@0	0.073	0.052	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	0.089	0.054	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	0.089	0.054	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	0.089	0.052	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	0.133	0.107	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	12@0	0.184	0.250	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	0.132	0.107	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	12@0	0.184	0.250	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	0.133	0.107	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	12@0	0.184	0.250	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@0	0.131	0.119	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	0.184	0.250	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	0.131	0.119	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	12@0	0.184	0.250	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@0	0.131	0.119	PASS
Band13	Stand-Al	15kHz	NaN	QPSK	23279	12@0	0.184	0.250	PASS

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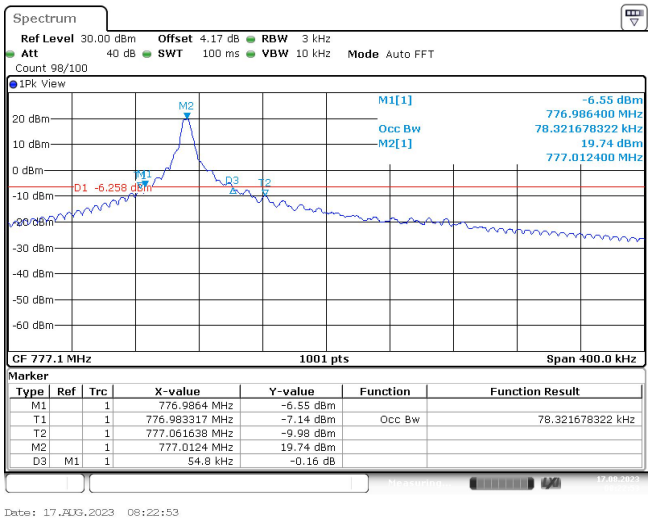
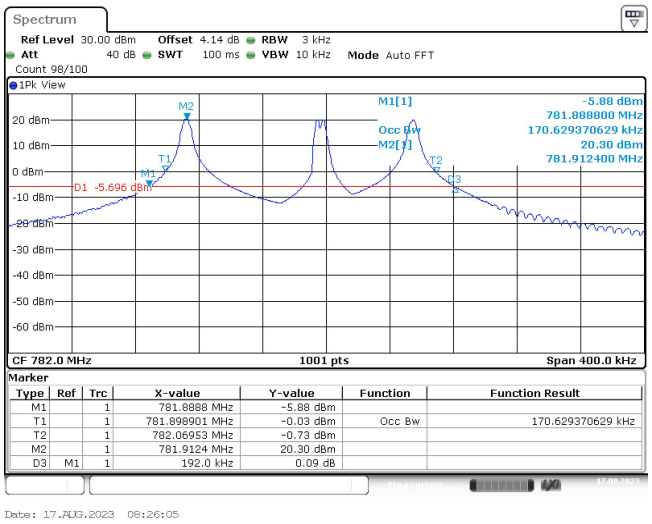
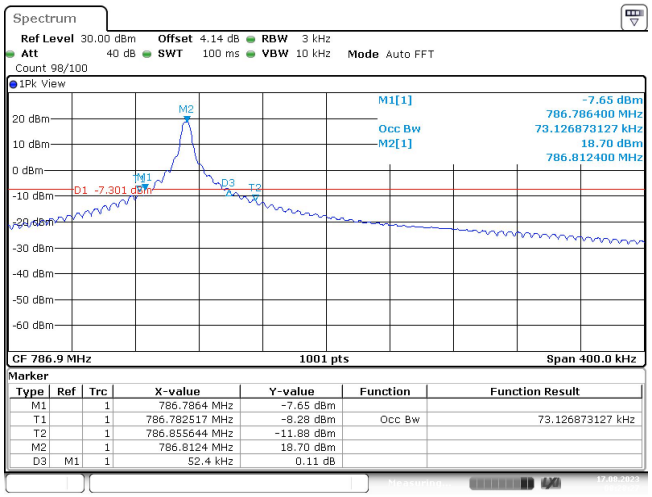
Test Graphs



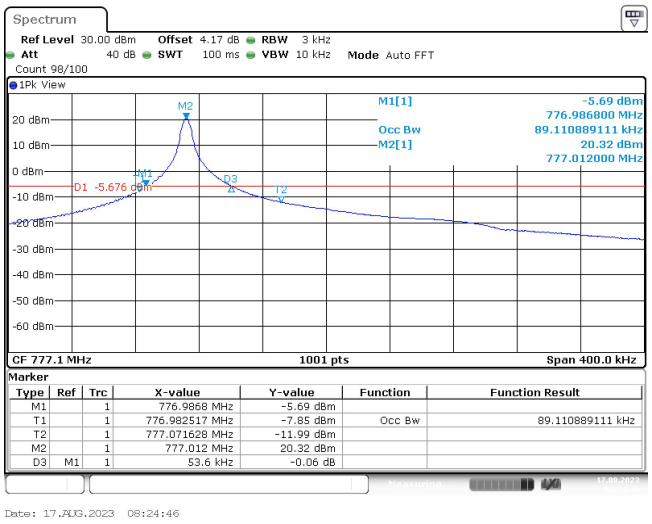
Band13-Stand-Alone-NaN-BPSK-23181-1@0-3.75kHz-0.055-0.078-PASS



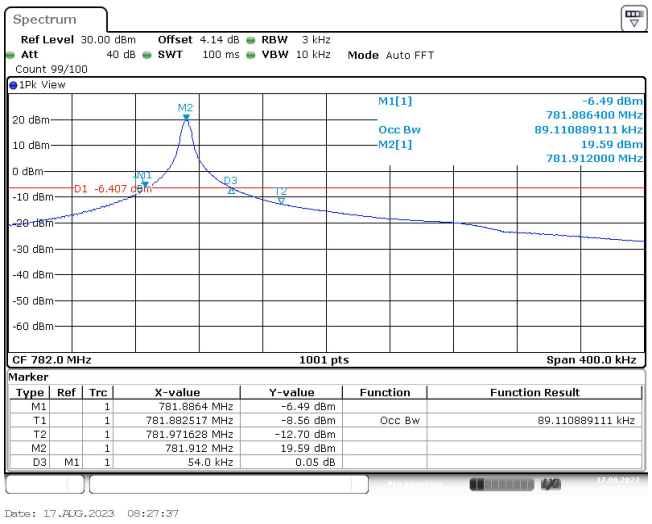
Band13-Stand-Alone-NaN-BPSK-23230-1@0-3.75kHz-0.192-0.171-PASS



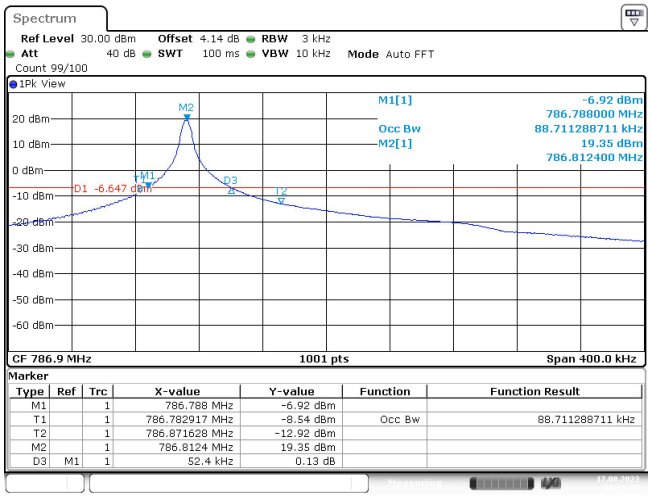
Band13-Stand-Alone-NaN-BPSK-23279-1@0-3.75kHz-0.052-0.073-PASS



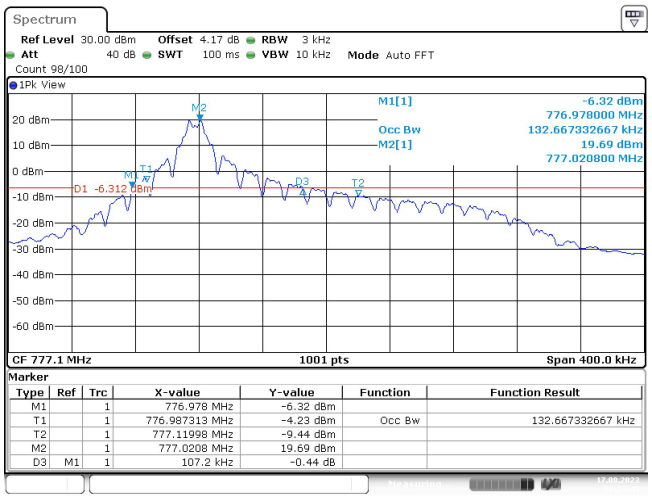
Band13-Stand-Alone-NaN-QPSK-23181-1@0-3.75kHz-0.054-0.089-PASS



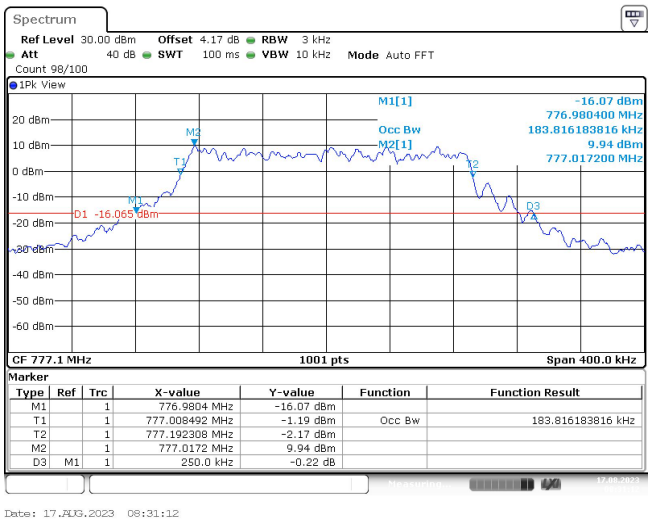
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-0.054-0.089-PASS



Band13-Stand-Alone-NaN-QPSK-23279-1@0-3.75kHz-0.052-0.089-PASS



Band13-Stand-Alone-NaN-BPSK-23181-1@0-15kHz-0.107-0.133-PASS



Band13-Stand-Alone-NaN-BPSK-23181-12@0-15kHz-0.250-0.184-PASS