

Appendix A: Test Results of Band 2 for NB-IoT operation

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Appendix A.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for NB

Test Result

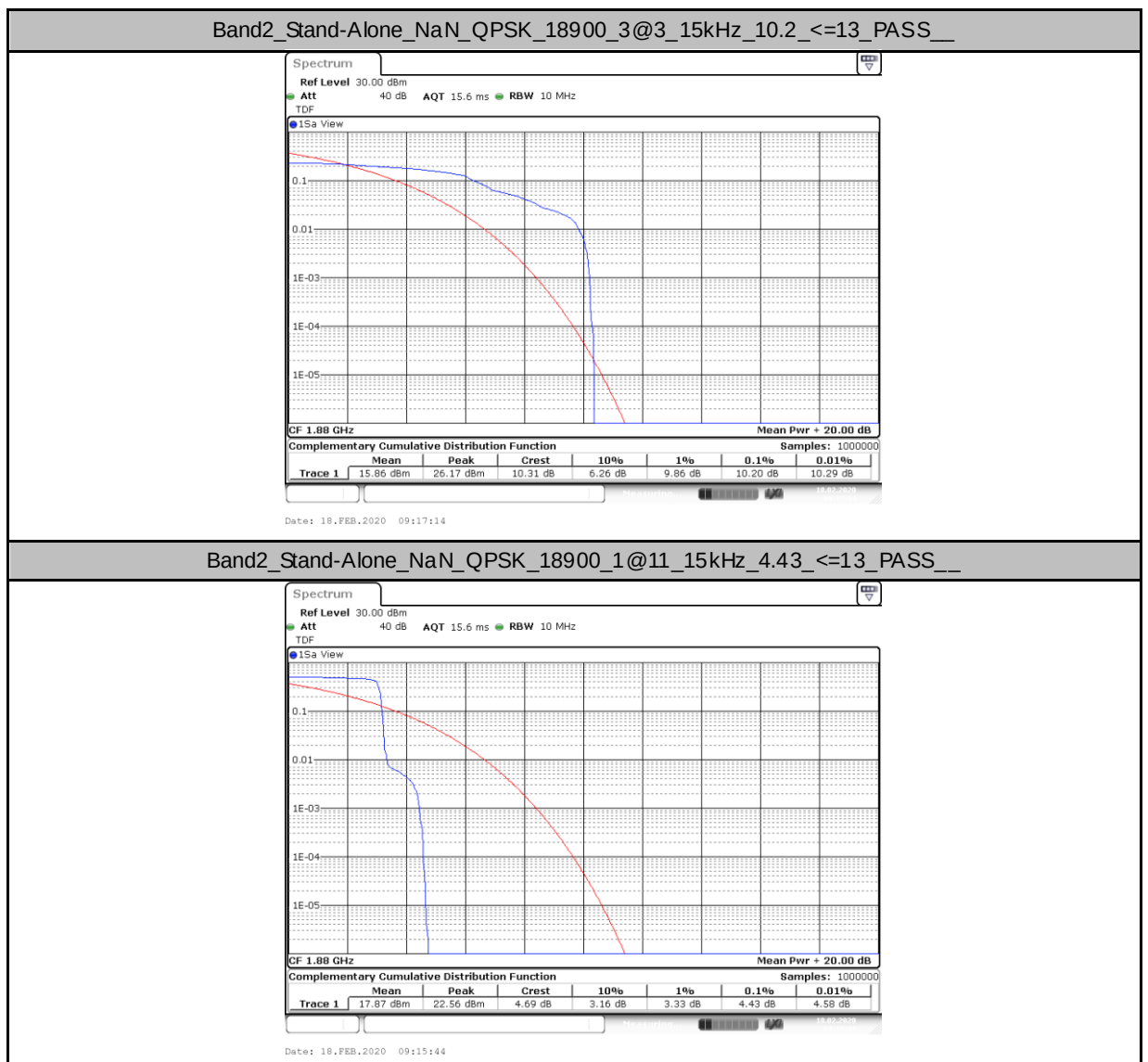
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	EIRP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band2	Stand-Alone	NaN	QPSK	18601	1@0	15kHz	12.10	14.24	0.027	2	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@11	15kHz	12.04	14.18	0.026	2	PASS
Band2	Stand-Alone	NaN	QPSK	18601	3@3	15kHz	12.11	14.25	0.027	2	PASS
Band2	Stand-Alone	NaN	QPSK	18602	1@11	15kHz	21.40	23.54	0.226	2	PASS
Band2	Stand-Alone	NaN	QPSK	18602	1@0	15kHz	21.64	23.78	0.239	2	PASS
Band2	Stand-Alone	NaN	QPSK	18602	3@3	15kHz	23.66	25.80	0.380	2	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	22.48	24.62	0.290	2	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	23.46	25.60	0.363	2	PASS
Band2	Stand-Alone	NaN	QPSK	18900	3@3	15kHz	23.47	25.61	0.364	2	PASS
Band2	Stand-Alone	NaN	QPSK	19198	3@3	15kHz	23.97	26.11	0.408	2	PASS
Band2	Stand-Alone	NaN	QPSK	19198	1@11	15kHz	21.44	23.58	0.228	2	PASS
Band2	Stand-Alone	NaN	QPSK	19198	1@0	15kHz	21.53	23.67	0.233	2	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@11	15kHz	11.61	13.75	0.024	2	PASS
Band2	Stand-Alone	NaN	QPSK	19199	3@3	15kHz	11.70	13.84	0.024	2	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	15kHz	11.64	13.78	0.024	2	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@11	15kHz	11.78	13.92	0.025	2	PASS
Band2	Stand-Alone	NaN	BPSK	18601	3@3	15kHz	12.04	14.18	0.026	2	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	11.96	14.10	0.026	2	PASS
Band2	Stand-Alone	NaN	BPSK	18602	1@11	15kHz	21.04	23.18	0.208	2	PASS
Band2	Stand-Alone	NaN	BPSK	18602	1@0	15kHz	21.09	23.23	0.210	2	PASS
Band2	Stand-Alone	NaN	BPSK	18602	3@3	15kHz	21.73	23.87	0.244	2	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@11	15kHz	22.27	24.41	0.276	2	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	22.35	24.49	0.281	2	PASS
Band2	Stand-Alone	NaN	BPSK	18900	3@3	15kHz	23.56	25.70	0.372	2	PASS
Band2	Stand-Alone	NaN	BPSK	19198	1@11	15kHz	21.30	23.44	0.221	2	PASS
Band2	Stand-Alone	NaN	BPSK	19198	1@0	15kHz	21.3	23.44	0.221	2	PASS
Band2	Stand-Alone	NaN	BPSK	19198	3@3	15kHz	21.45	23.59	0.229	2	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@11	15kHz	11.39	13.53	0.023	2	PASS
Band2	Stand-Alone	NaN	BPSK	19199	3@3	15kHz	11.71	13.85	0.024	2	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	11.57	13.71	0.023	2	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@47	3.75kHz	6.69	8.83	0.008	2	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	6.73	8.87	0.008	2	PASS
Band2	Stand-Alone	NaN	QPSK	18602	1@0	3.75kHz	24.11	26.25	0.422	2	PASS
Band2	Stand-Alone	NaN	QPSK	18602	1@47	3.75kHz	24.09	26.23	0.420	2	PASS
Band2	Stand-Alone	NaN	QPSK	19198	1@0	3.75kHz	24.27	26.41	0.438	2	PASS
Band2	Stand-Alone	NaN	QPSK	19198	1@47	3.75kHz	24.27	26.41	0.438	2	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@47	3.75kHz	6.34	8.48	0.007	2	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	6.39	8.53	0.007	2	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@47	3.75kHz	6.64	8.78	0.008	2	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	3.75kHz	6.66	8.80	0.008	2	PASS
Band2	Stand-Alone	NaN	BPSK	18602	1@0	3.75kHz	24.09	26.23	0.420	2	PASS
Band2	Stand-Alone	NaN	BPSK	18602	1@47	3.75kHz	24.08	26.22	0.419	2	PASS
Band2	Stand-Alone	NaN	BPSK	19198	1@0	3.75kHz	24.20	26.34	0.431	2	PASS
Band2	Stand-Alone	NaN	BPSK	19198	1@47	3.75kHz	24.16	26.30	0.427	2	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@47	3.75kHz	6.28	8.42	0.007	2	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	3.75kHz	6.31	8.45	0.007	2	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	24.48	26.62	0.459	2	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	24.42	26.56	0.453	2	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	3.75kHz	24.41	26.55	0.452	2	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@47	3.75kHz	24.39	26.53	0.450	2	PASS

Appendix A.2: Peak-to-Average Ratio (CCDF) for NB

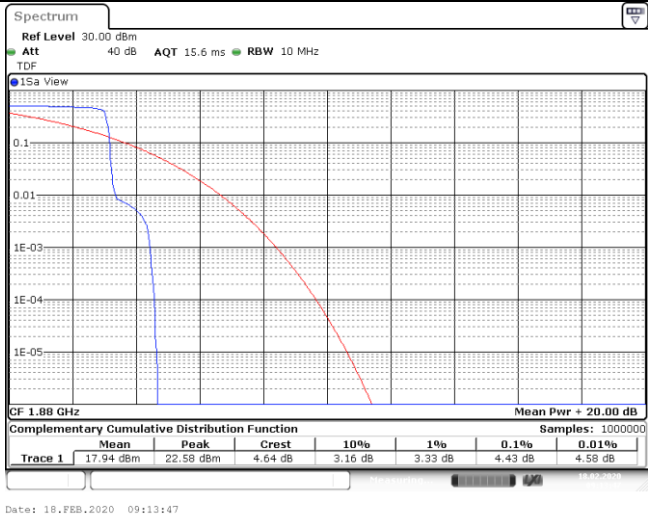
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band2	Stand-Alone	NaN	QPSK	18900	3@3	15kHz	10.2	<=13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	4.43	<=13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	4.43	<=13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	3@3	15kHz	8.46	<=13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@11	15kHz	1.86	<=13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	8.61	<=13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	9.71	<=13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	4.78	<=13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@47	3.75kHz	1.97	<=13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	3.75kHz	2.03	<=13	PASS

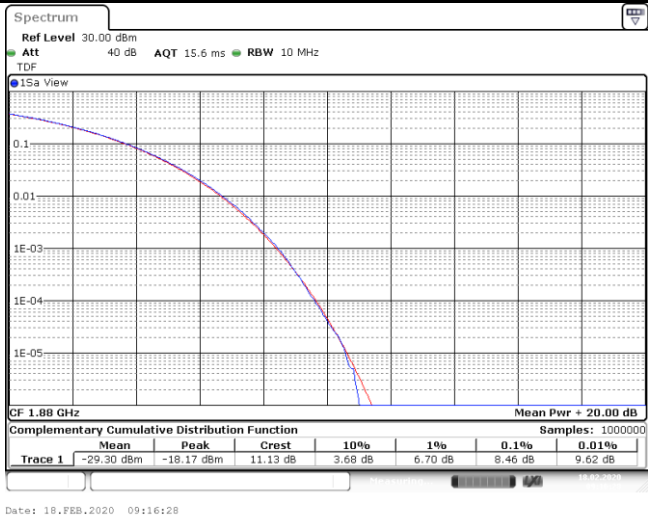
Test Graphs



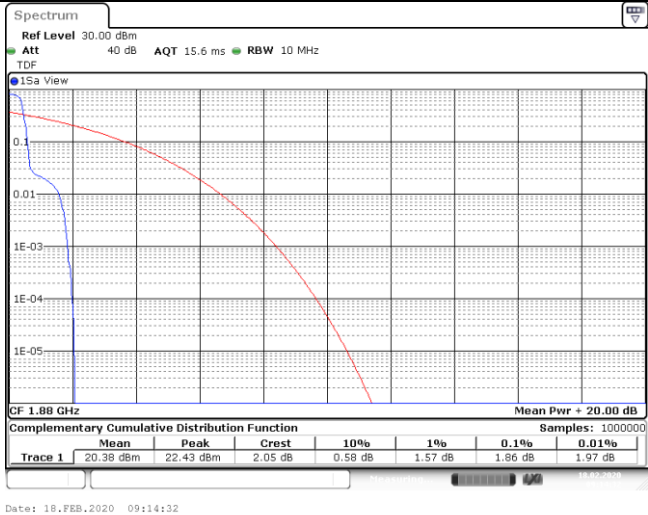
Band2_Stand-Alone_NaN_QPSK_18900_1@0_15kHz_4.43_<=13_PASS__



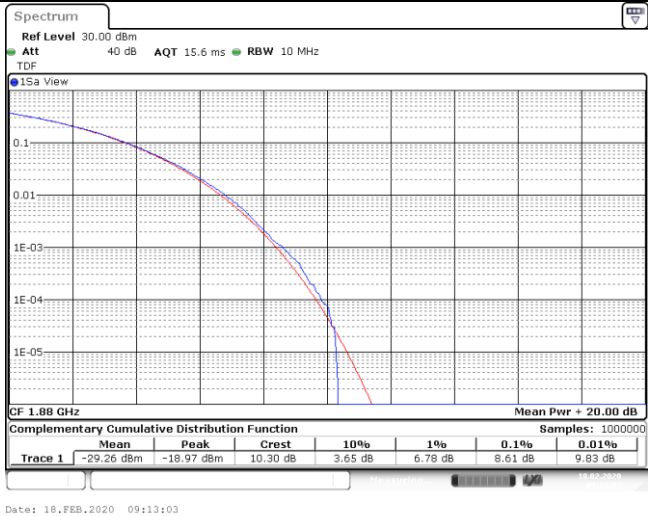
Band2_Stand-Alone_NaN_BPSK_18900_3@3_15kHz_8.46_<=13_PASS__



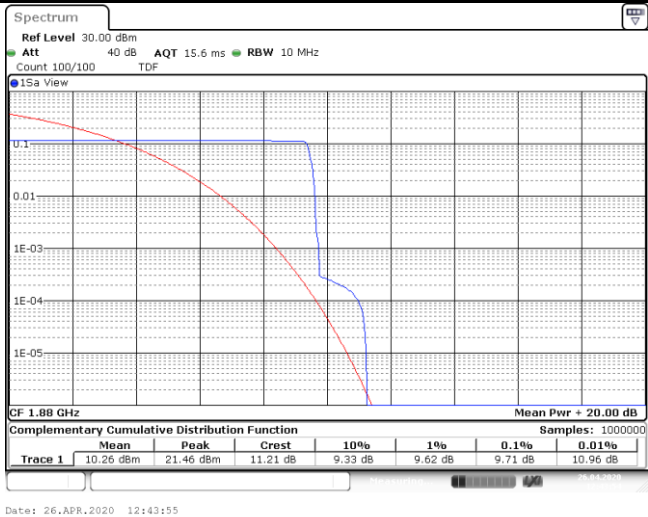
Band2_Stand-Alone_NaN_BPSK_18900_1@11_15kHz_1.86_<=13_PASS__



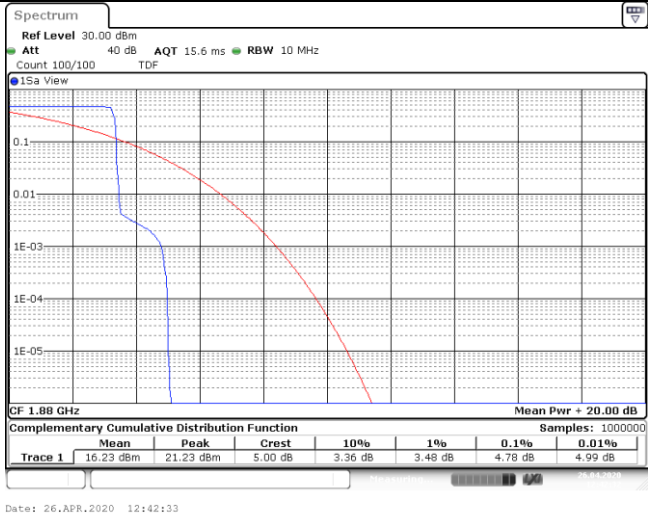
Band2_Stand-Alone_NaN_BPSK_18900_1@0_15kHz_8.61_<=13_PASS__



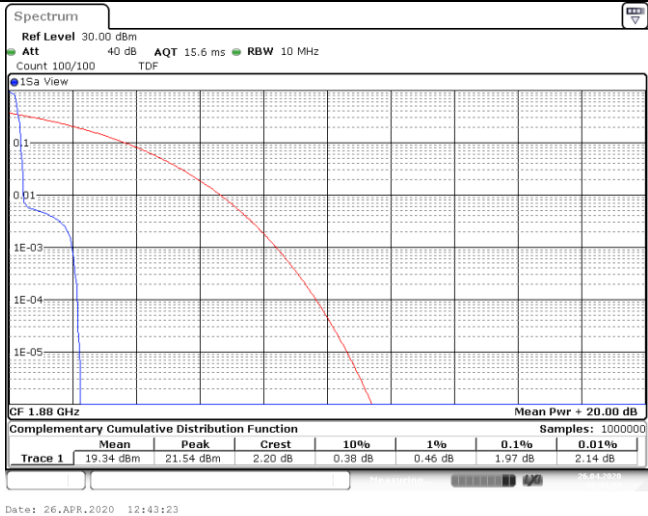
Band2_Stand-Alone_NaN_QPSK_18900_1@47_3.75kHz_9.71_<=13_PASS__



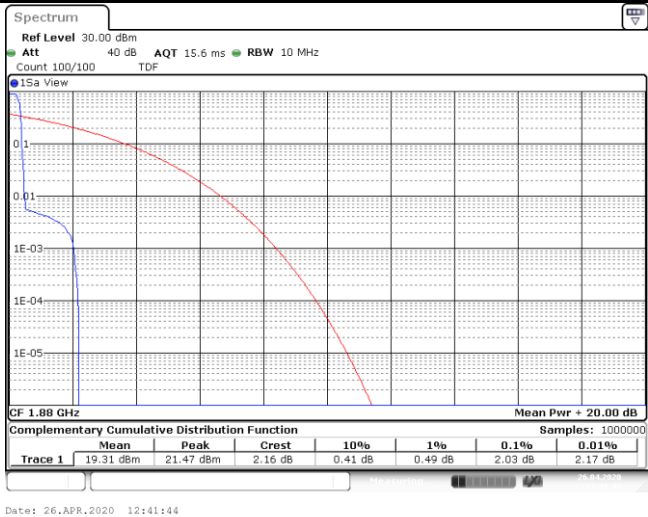
Band2_Stand-Alone_NaN_QPSK_18900_1@0_3.75kHz_4.78_<=13_PASS__



Band2_Stand-Alone_NaN_BPSK_18900_1@47_3.75kHz_1.97_<=13_PASS__



Band2_Stand-Alone_NaN_BPSK_18900_1@0_3.75kHz_2.03_<=13_PASS__

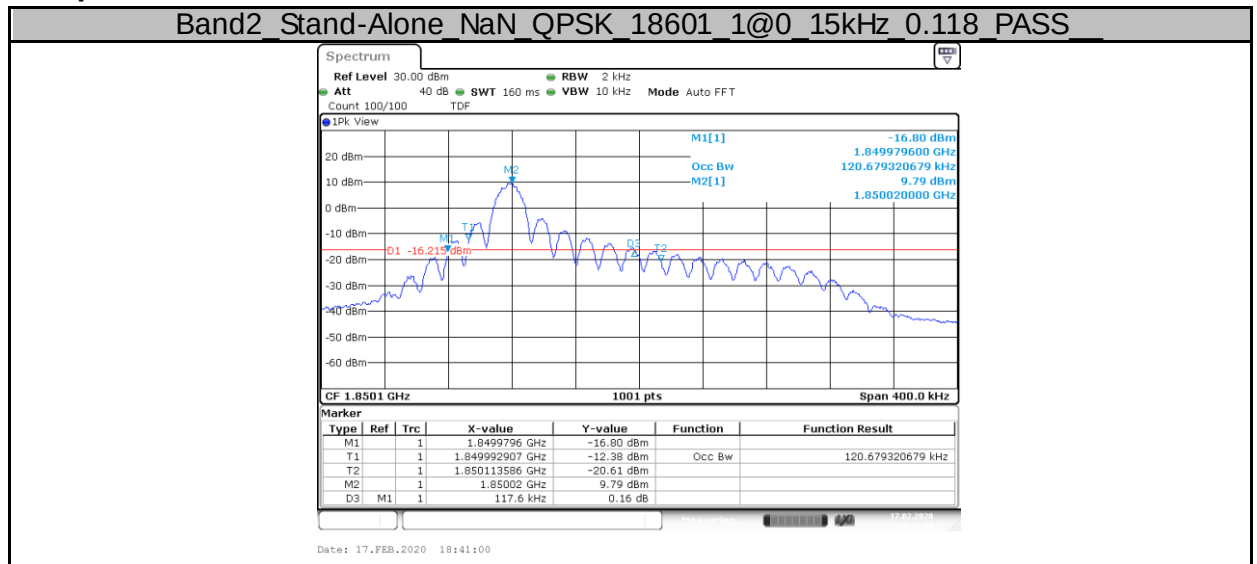


Appendix A.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

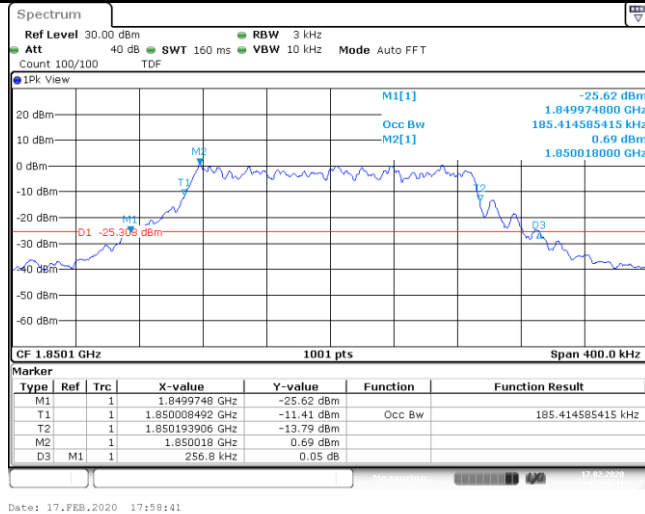
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band2	Stand-Alone	NaN	QPSK	18601	1@0	15kHz	0.118	0.121	PASS
Band2	Stand-Alone	NaN	QPSK	18601	12@0	15kHz	0.257	0.185	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	0.118	0.121	PASS
Band2	Stand-Alone	NaN	QPSK	18900	12@0	15kHz	0.262	0.186	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	15kHz	0.118	0.121	PASS
Band2	Stand-Alone	NaN	QPSK	19199	12@0	15kHz	0.257	0.185	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	0.106	0.129	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	0.106	0.129	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	0.106	0.129	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	0.038	0.053	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	0.038	0.053	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	3.75kHz	0.036	0.057	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	3.75kHz	0.034	0.057	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	0.037	0.052	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	3.75kHz	0.032	0.056	PASS

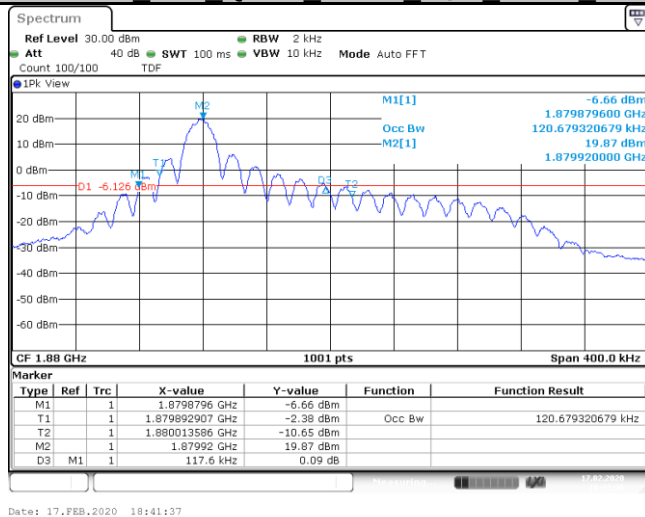
Test Graphs



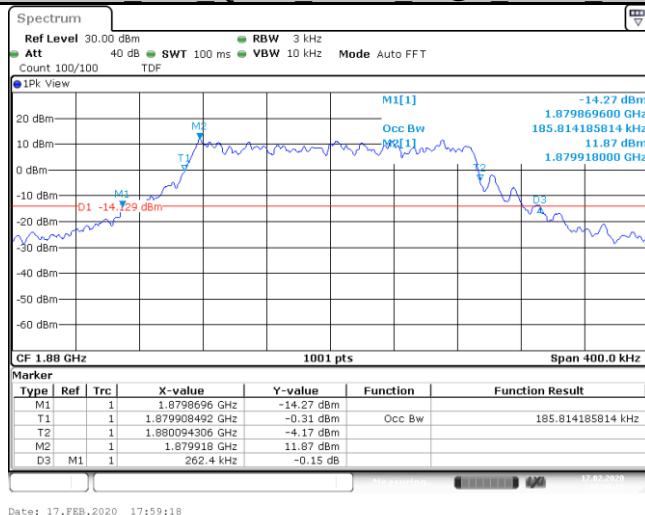
Band2 Stand-Alone NaN QPSK 18601 12@0 15kHz 0.257 PASS



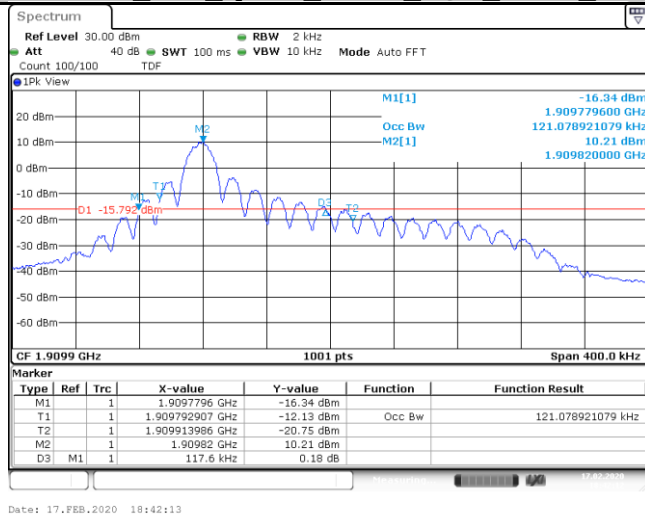
Band2 Stand-Alone NaN QPSK 18900 1@0 15kHz 0.118 PASS



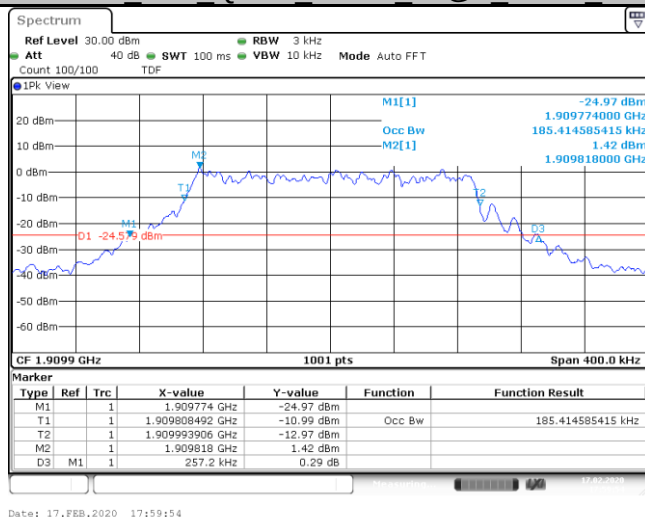
Band2 Stand-Alone NaN QPSK 18900 12@0 15kHz 0.262 PASS



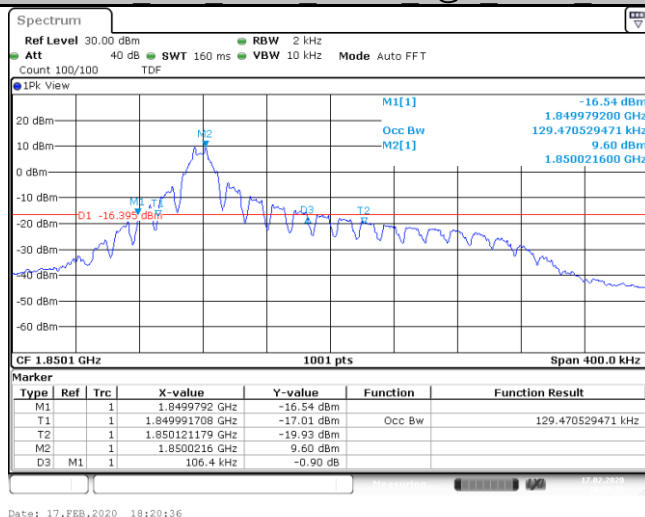
Band2 Stand-Alone NaN QPSK 19199 1@0 15kHz 0.118 PASS



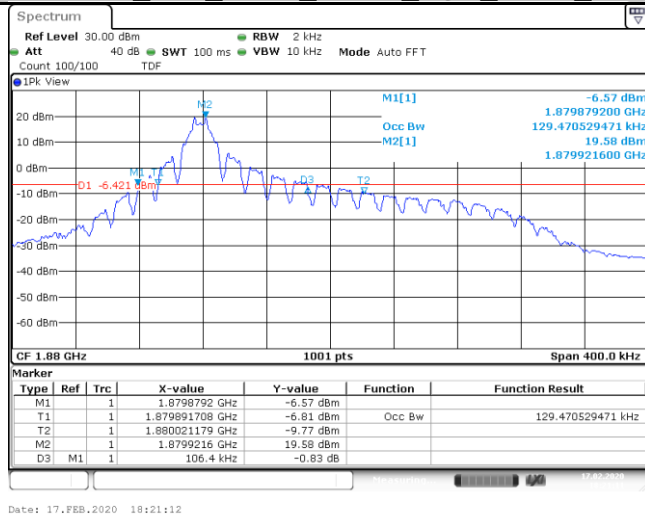
Band2 Stand-Alone NaN QPSK 19199 12@0 15kHz 0.257 PASS



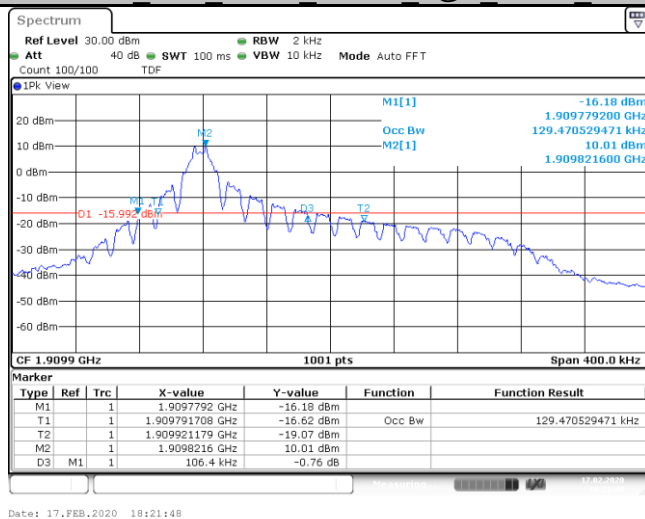
Band2 Stand-Alone NaN BPSK 18601 1@0 15kHz 0.106 PASS



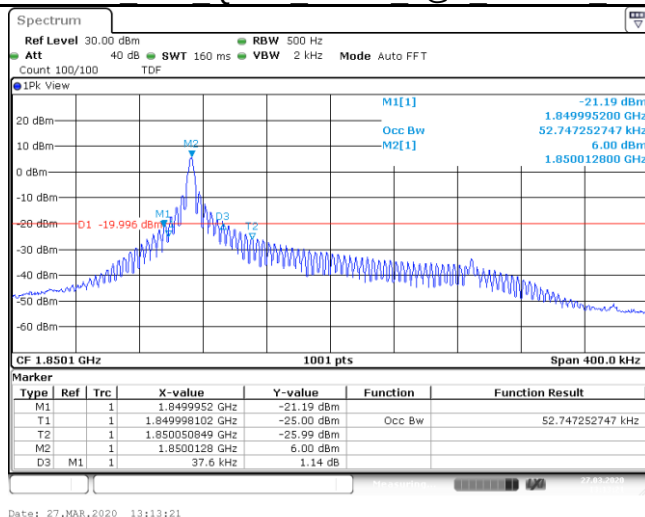
Band2 Stand-Alone NaN BPSK 18900 1@0 15kHz 0.106 PASS



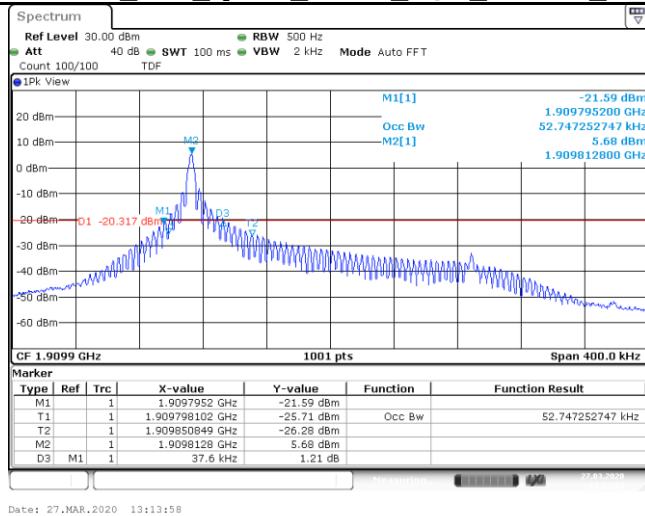
Band2 Stand-Alone NaN BPSK 19199 1@0 15kHz 0.106 PASS



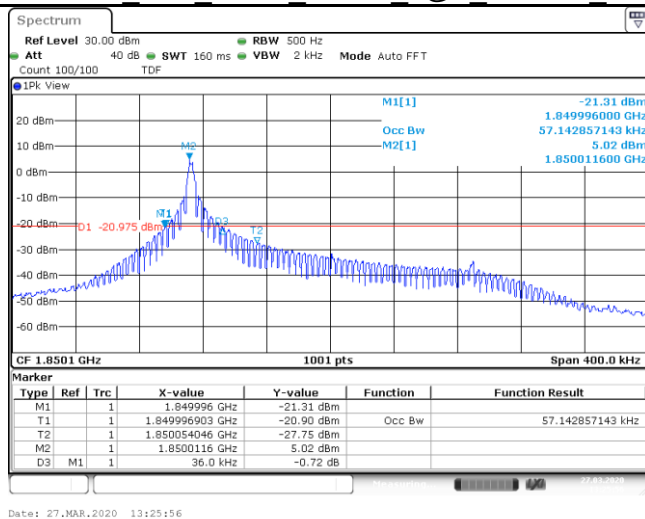
Band2 Stand-Alone NaN QPSK 18601 1@0 3.75kHz 0.038 PASS



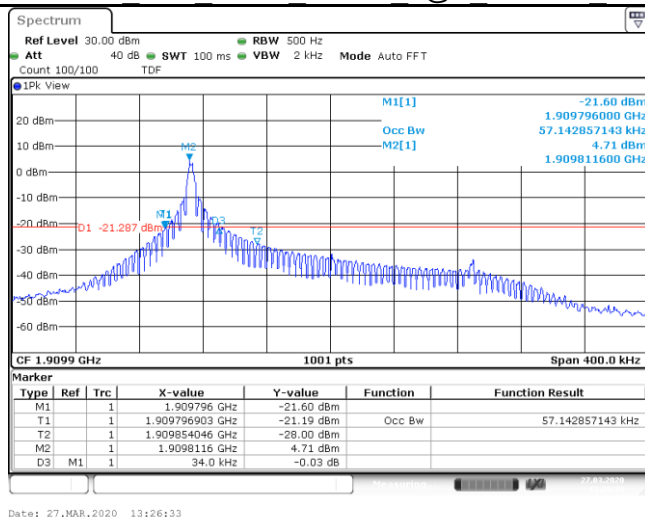
Band2 Stand-Alone NaN QPSK 19199 1@0 3.75kHz 0.038 PASS



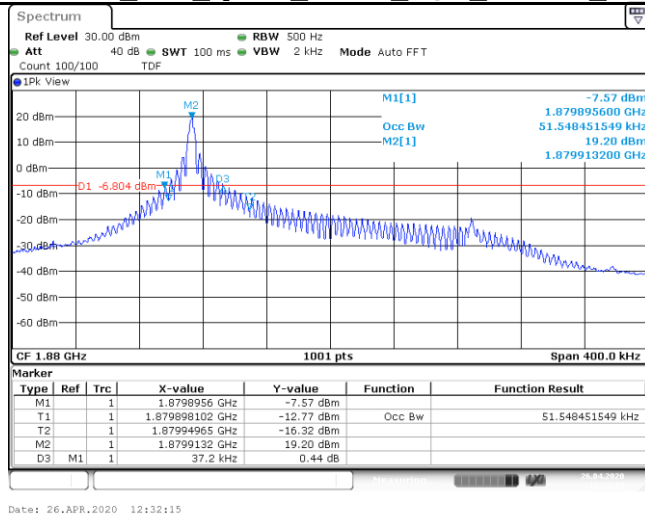
Band2 Stand-Alone NaN BPSK 18601 1@0 3.75kHz 0.036 PASS



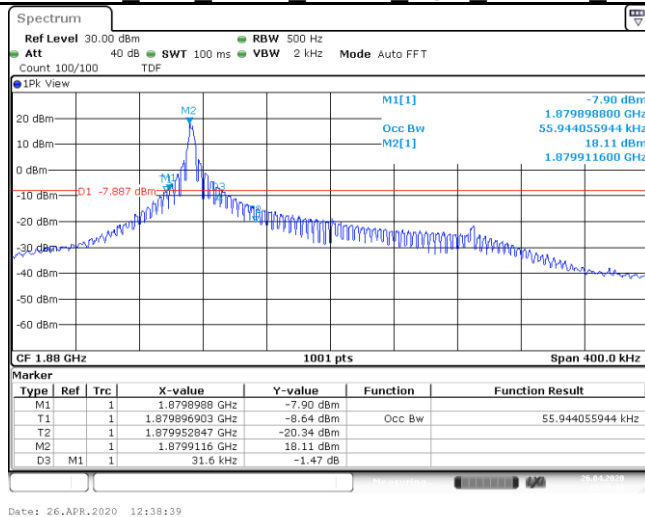
Band2 Stand-Alone NaN BPSK 19199 1@0 3.75kHz 0.034 PASS



Band2 Stand-Alone NaN QPSK 18900 1@0 3.75kHz 0.037 PASS



Band2 Stand-Alone NaN BPSK 18900 1@0 3.75kHz 0.032 PASS

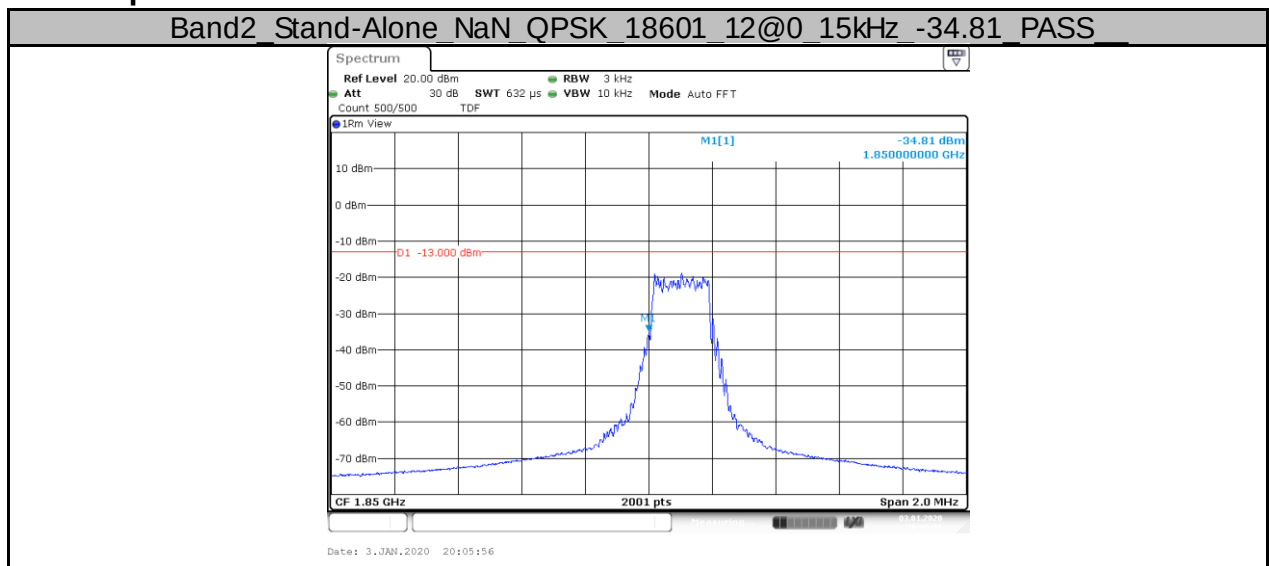


Appendix A.4: Band Edge for NB

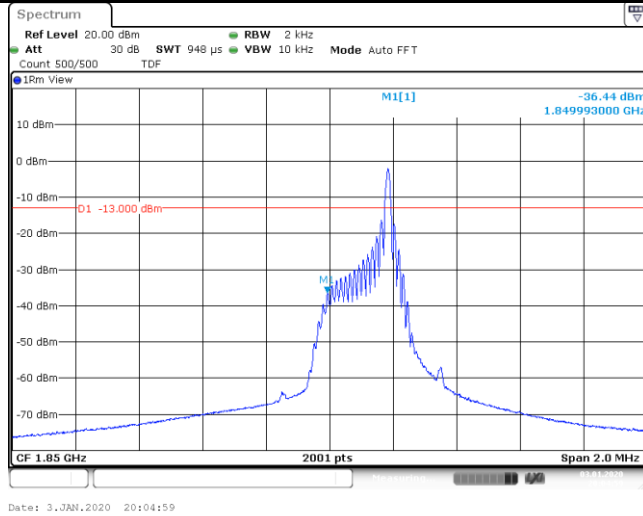
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band2	Stand-Alone	NaN	QPSK	18601	12@0	15kHz	-34.81	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@11	15kHz	-36.44	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	15kHz	-17.88	PASS
Band2	Stand-Alone	NaN	QPSK	19199	12@0	15kHz	-30.49	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@11	15kHz	-17.13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	15kHz	-35.95	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@11	15kHz	-34.70	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	-15.62	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@11	15kHz	-15.37	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	-34.13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@47	3.75kHz	-48.23	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	-26.71	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@47	3.75kHz	-27.45	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	-47.71	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@47	3.75kHz	-47.10	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	3.75kHz	-25.49	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@47	3.75kHz	-26.63	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	3.75kHz	-47.17	PASS

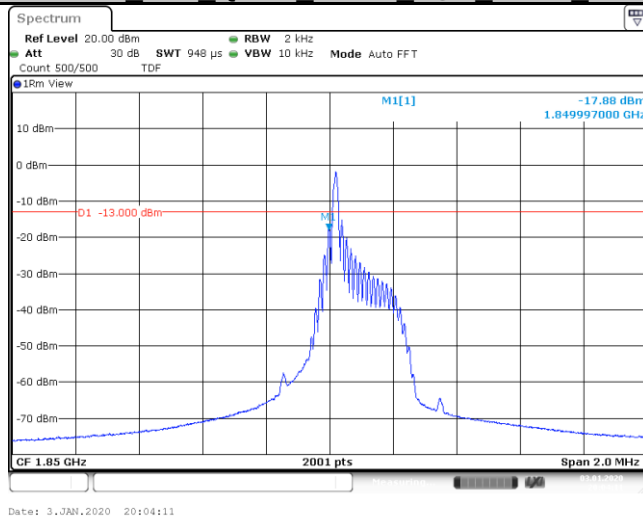
Test Graphs



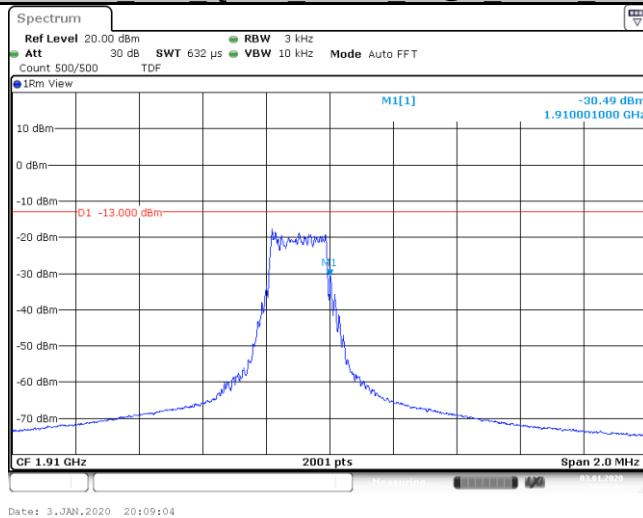
Band2 Stand-Alone NaN QPSK 18601 1@11 15kHz -36.44 PASS



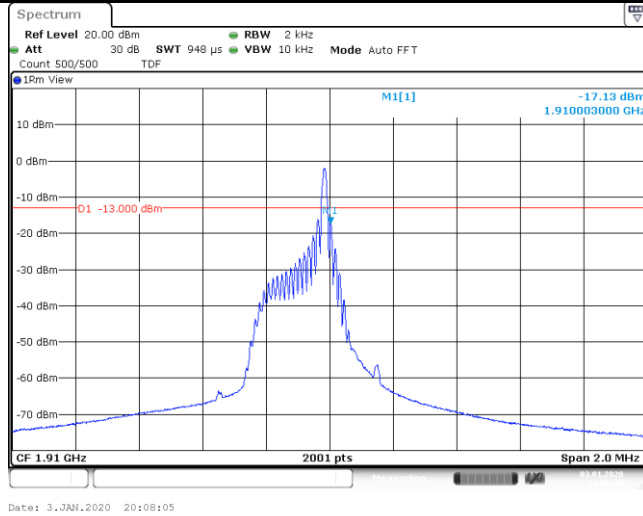
Band2 Stand-Alone NaN QPSK 18601 1@0 15kHz -17.88 PASS



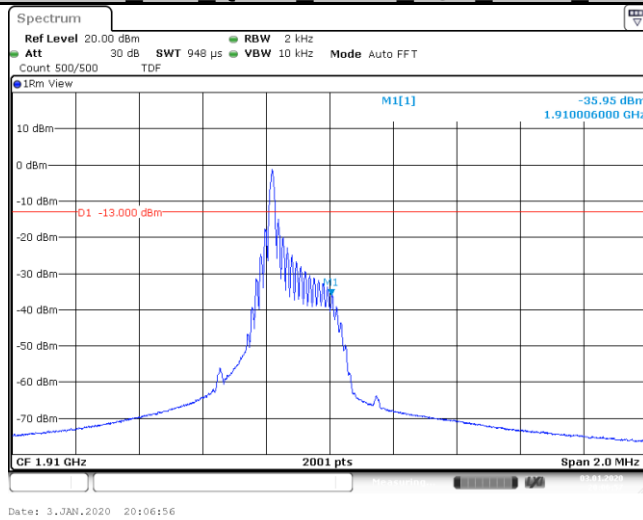
Band2 Stand-Alone NaN QPSK 19199 12@0 15kHz -30.49 PASS



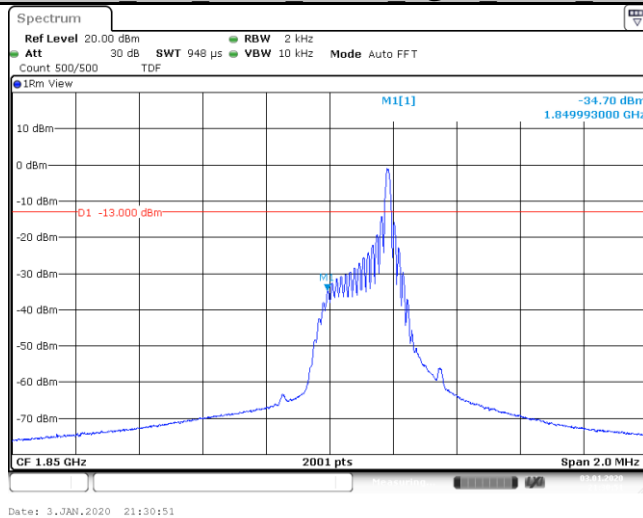
Band2 Stand-Alone NaN QPSK 19199 1@11 15kHz -17.13 PASS



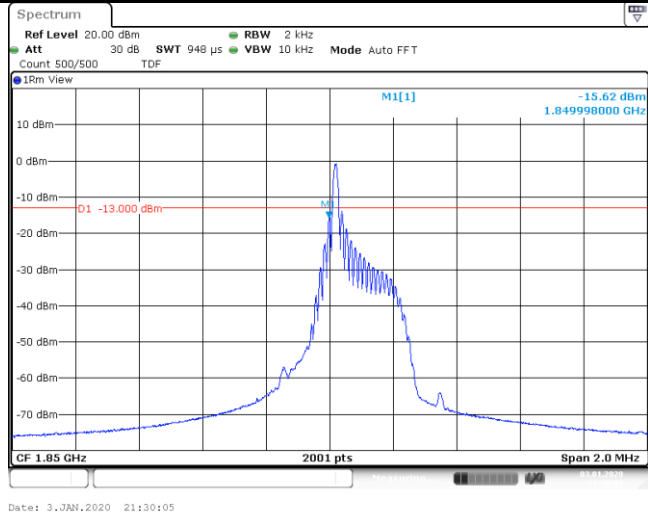
Band2 Stand-Alone NaN QPSK 19199 1@0 15kHz -35.95 PASS



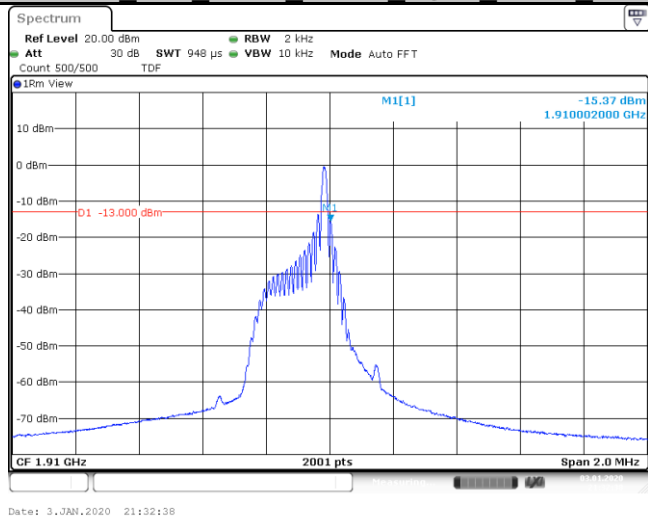
Band2 Stand-Alone NaN BPSK 18601 1@11 15kHz -34.70 PASS



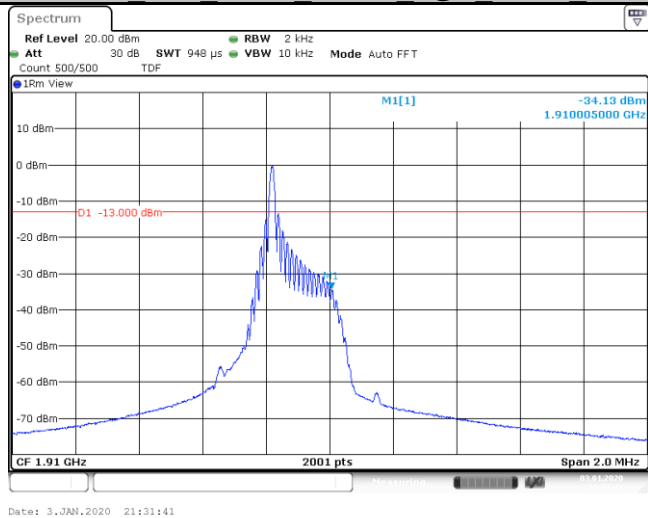
Band2 Stand-Alone NaN BPSK 18601 1@0 15kHz -15.62 PASS



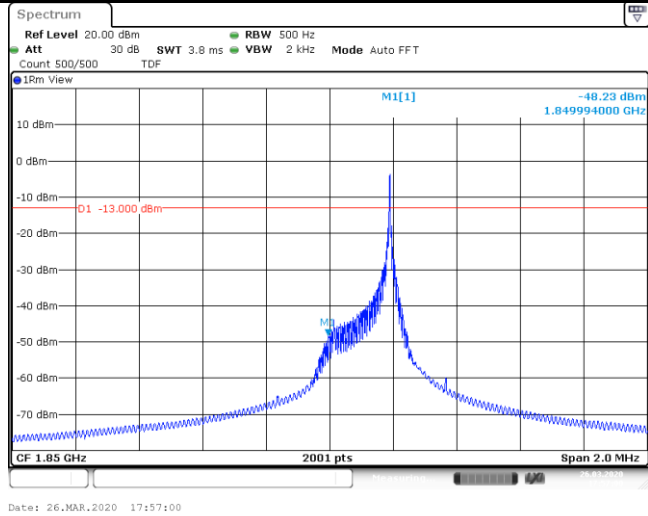
Band2 Stand-Alone NaN BPSK 19199 1@11 15kHz -15.37 PASS



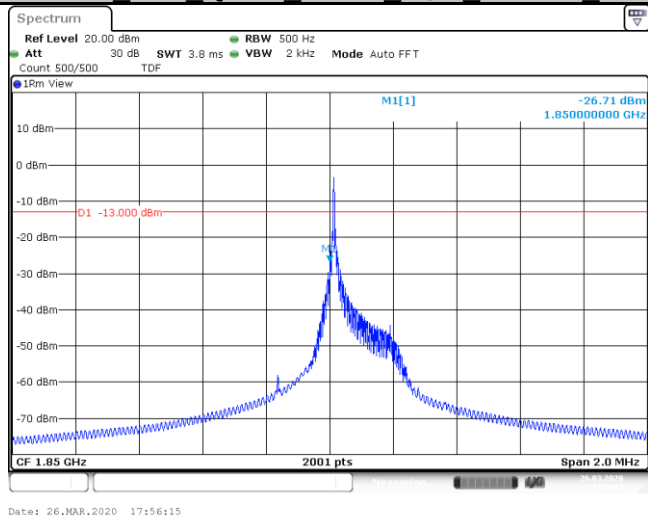
Band2 Stand-Alone NaN BPSK 19199 1@0 15kHz -34.13 PASS



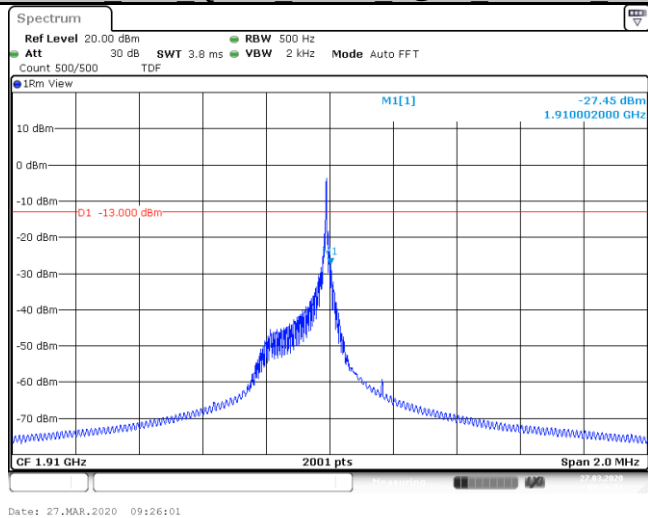
Band2 Stand-Alone NaN QPSK 18601 1@47 3.75kHz -48.23 PASS



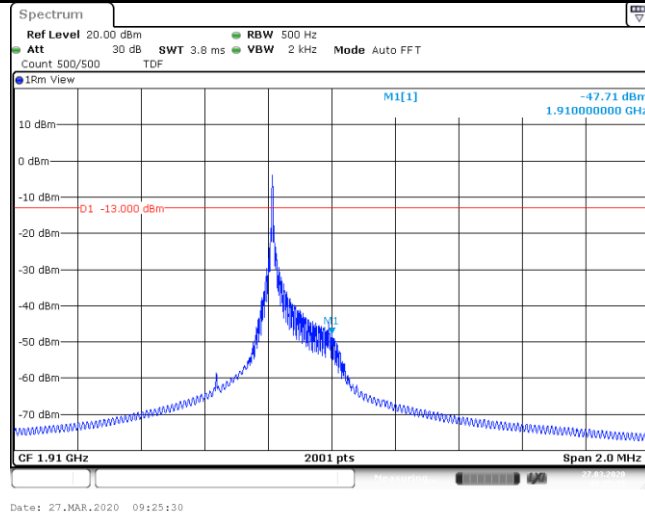
Band2 Stand-Alone NaN QPSK 18601 1@0 3.75kHz -26.71 PASS



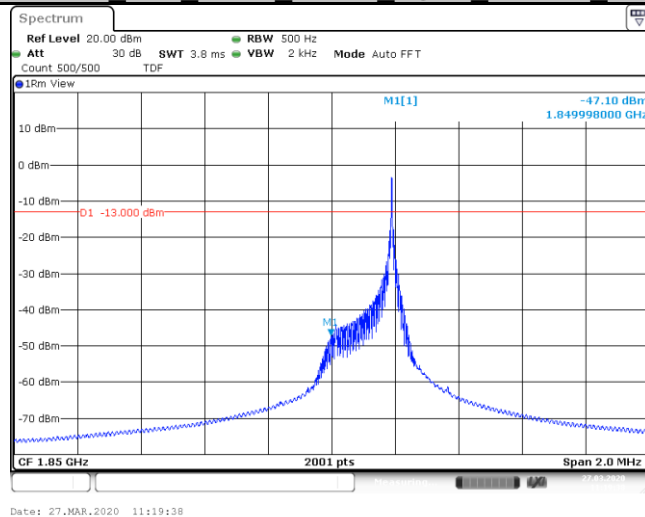
Band2 Stand-Alone NaN QPSK 19199 1@47 3.75kHz -27.45 PASS



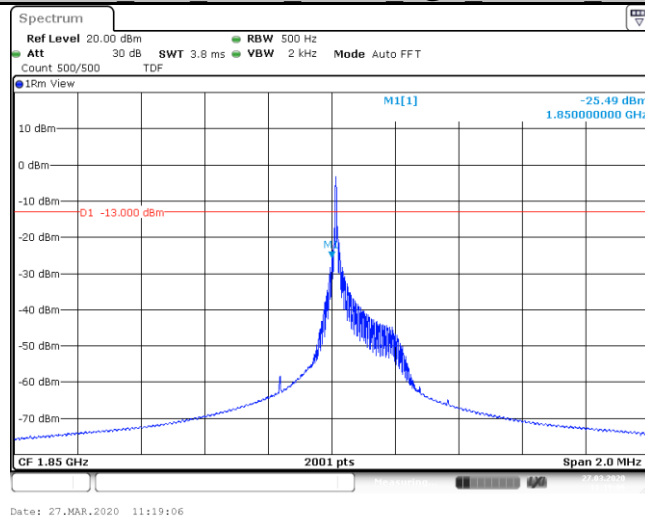
Band2 Stand-Alone NaN QPSK 19199 1@0 3.75kHz -47.71 PASS



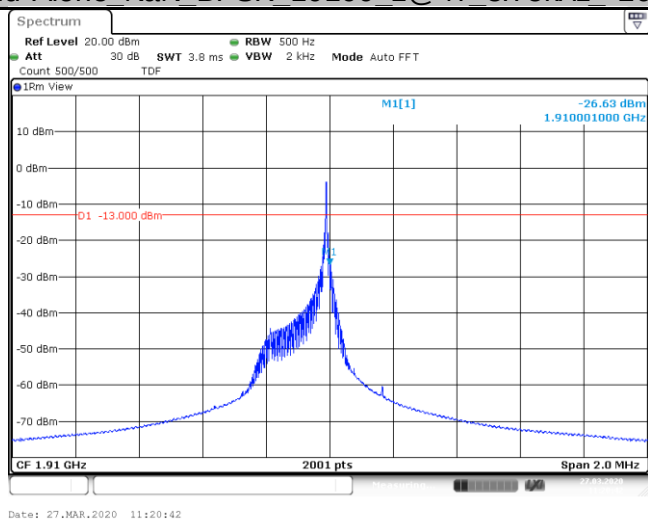
Band2 Stand-Alone NaN BPSK 18601 1@47 3.75kHz -47.10 PASS



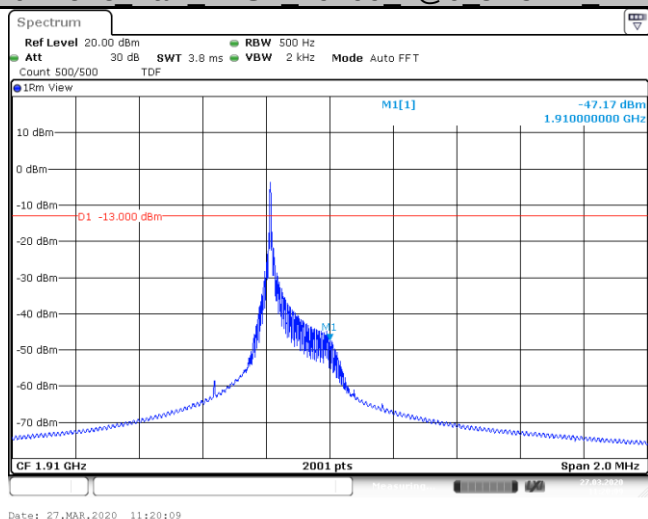
Band2 Stand-Alone NaN BPSK 18601 1@0 3.75kHz -25.49 PASS



Band2 Stand-Alone NaN BPSK 19199 1@47 3.75kHz -26.63 PASS



Band2 Stand-Alone NaN BPSK 19199 1@0 3.75kHz -47.17 PASS



Appendix A.5: Conducted Spurious Emission for NB

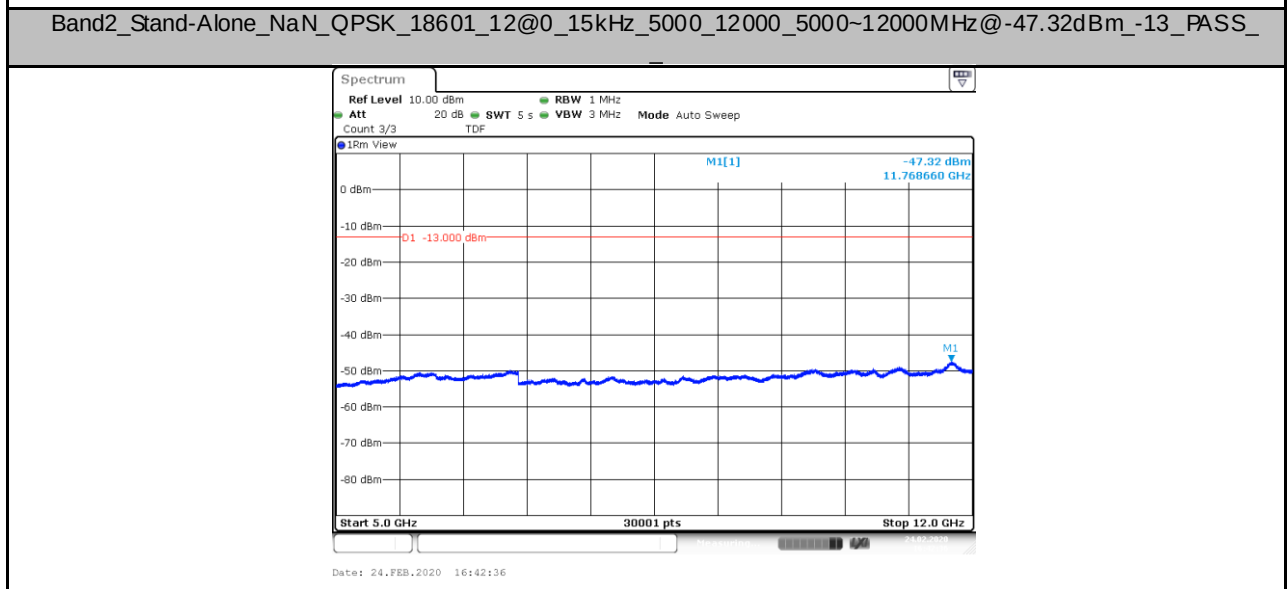
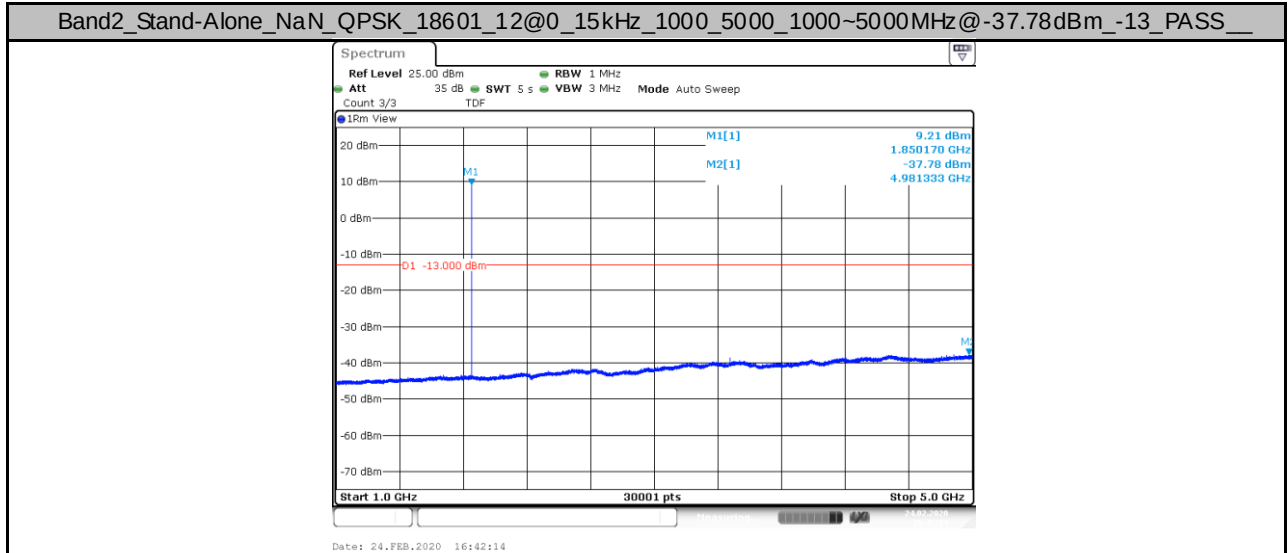
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band2	Stand-Alone	NaN	QPSK	18601	12@0	15kHz	1000	5000	1000~5000MHz@-37.78dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	12@0	15kHz	5000	12000	5000~12000MHz@-47.32dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	12@0	15kHz	12000	26500	12000~26500MHz@-41.36dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	12@0	15kHz	30	1000	30~1000MHz@-35.21dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	12@0	15kHz	30	1000	30~1000MHz@-35.07dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	12@0	15kHz	1000	5000	1000~5000MHz@-36.79dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	12@0	15kHz	5000	12000	5000~12000MHz@-47.08dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	12@0	15kHz	12000	26500	12000~26500MHz@-41.11dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	12@0	15kHz	30	1000	30~1000MHz@-35.71dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	12@0	15kHz	12000	26500	12000~26500MHz@-41.04dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	12@0	15kHz	1000	5000	1000~5000MHz@-37.76dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	12@0	15kHz	5000	12000	5000~12000MHz@-47.24dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@11	15kHz	1000	5000	1000~5000MHz@-37.74dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	30	1000	30~1000MHz@-35.53dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	1000	5000	1000~5000MHz@-37.7dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	5000	12000	5000~12000MHz@-47.49dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@0	15kHz	12000	26500	12000~26500MHz@-41.27dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@11	15kHz	5000	12000	5000~12000MHz@-47.38dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@11	15kHz	12000	26500	12000~26500MHz@-41.06dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18601	1@11	15kHz	30	1000	30~1000MHz@-35.45dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@11	15kHz	5000	12000	5000~12000MHz@-47.42dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@11	15kHz	12000	26500	12000~26500MHz@-41.28dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@11	15kHz	1000	5000	1000~5000MHz@-36.04dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@11	15kHz	30	1000	30~1000MHz@-35.14dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	12000	26500	12000~26500MHz@-41.35dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	5000	12000	5000~12000MHz@-47.37dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	1000	5000	1000~5000MHz@-35.95dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	18900	1@0	15kHz	30	1000	30~1000MHz@-35.76dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@11	15kHz	12000	26500	12000~26500MHz@-41.24dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	1000	5000	1000~5000MHz@-37.65dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	5000	12000	5000~12000MHz@-47.29dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	12000	26500	12000~26500MHz@-41.34dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@11	15kHz	30	1000	30~1000MHz@-35.38dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@11	15kHz	1000	5000	1000~5000MHz@-37.73dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@11	15kHz	5000	12000	5000~12000MHz@-47.38dBm	-13	PASS
Band2	Stand-Alone	NaN	BPSK	19199	1@0	15kHz	30	1000	30~1000MHz@-35.37dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.46dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.76dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.8dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.44dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@47	3.75kHz	30	1000	30~1000MHz@-34.84dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.76dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@0	3.75kHz	30	1000	30~1000MHz@-35.67dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18601	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.54dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.23dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.84dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.51dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.39dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@47	3.75kHz	30	1000	30~1000MHz@-35.34dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.84dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.77dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	19199	1@0	3.75kHz	30	1000	30~1000MHz@-35.04dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.33dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	5000	12000	5000~12000MHz@-41.11dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.49dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.42dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	30	1000	30~1000MHz@-35.67dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.5dBm	-13	PASS

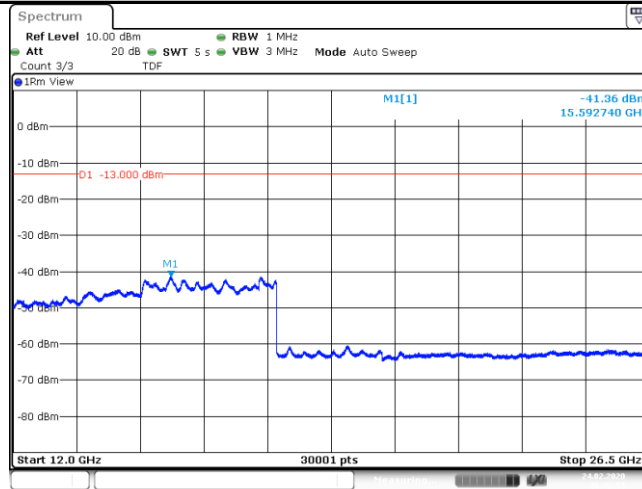
Produkte
Products

Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	5000	12000	5000~12000MHz@-40.87dBm	-13	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	30	1000	30~1000MHz@-34.7dBm	-13	PASS

Test Graphs

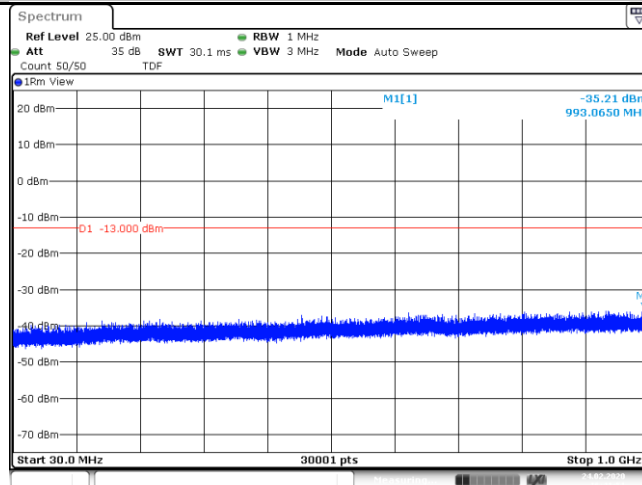


Band2_Stand-Alone_NaN_QPSK_18601_12@0_15kHz_12000_26500_12000~26500MHz@-41.36dBm_-13_PAS
S



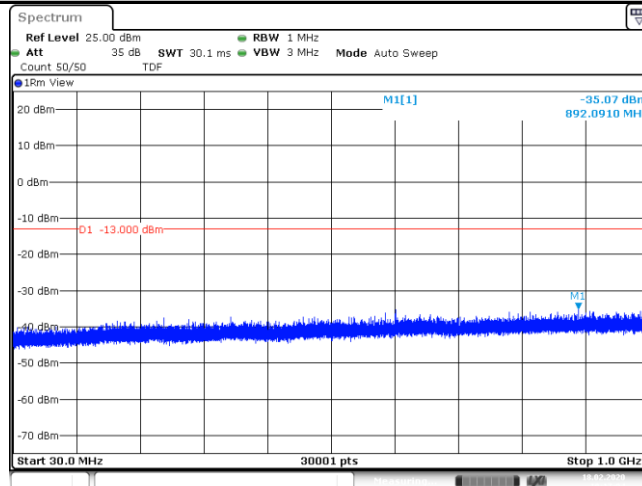
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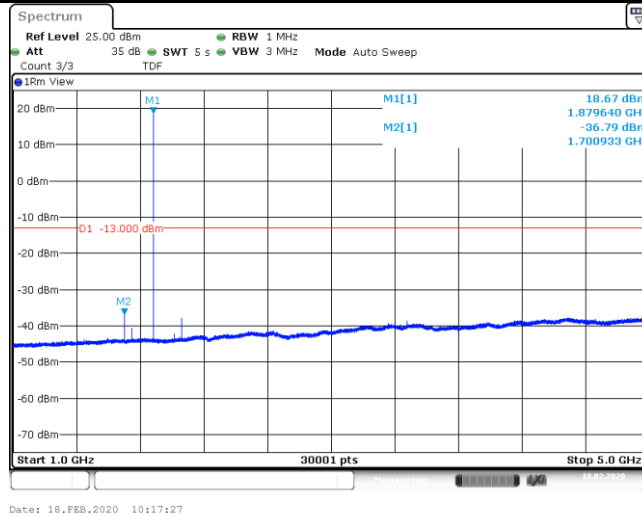
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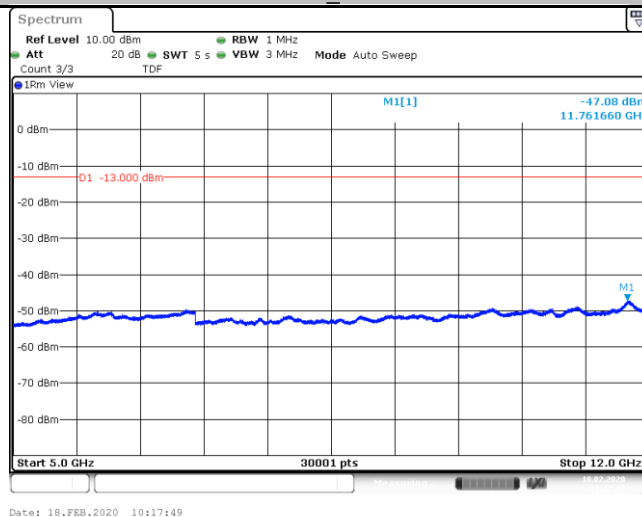


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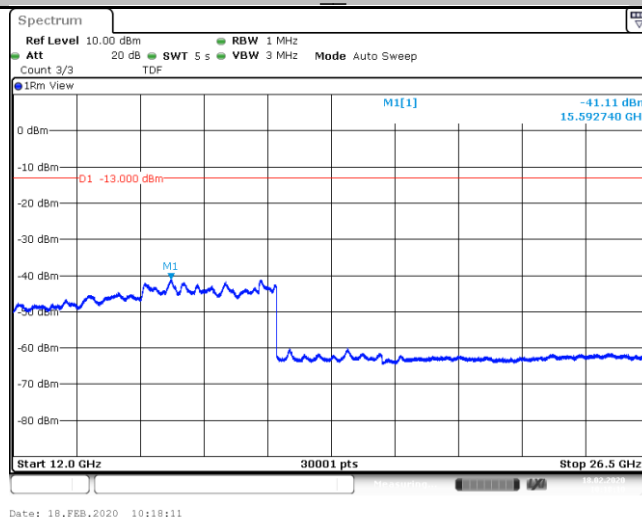
Band2_Stand-Alone_NaN_QPSK_18900_12@0_15kHz_1000_5000_1000~5000MHz@-36.79dBm_-13_PASS__



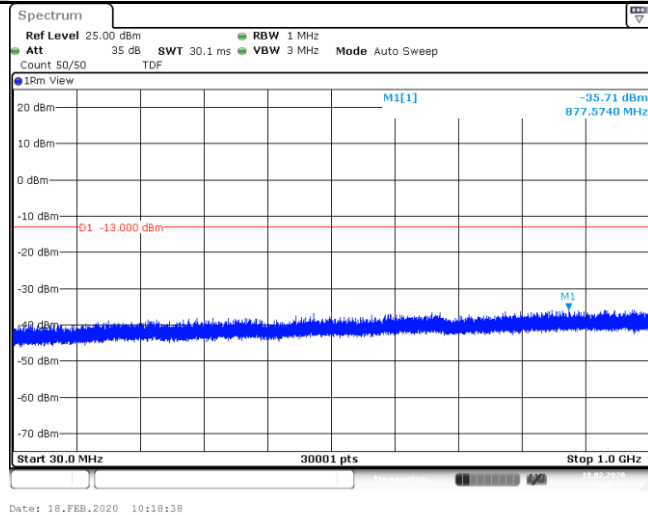
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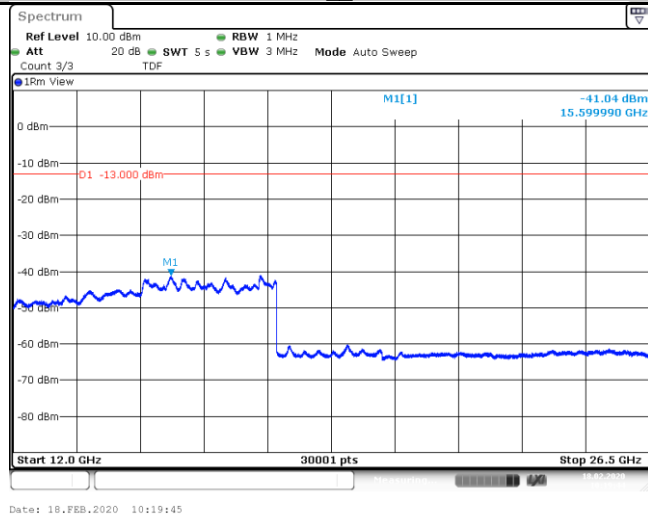
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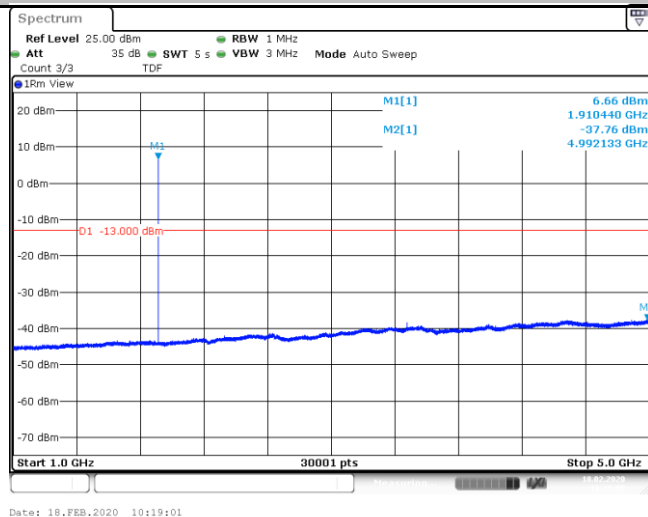
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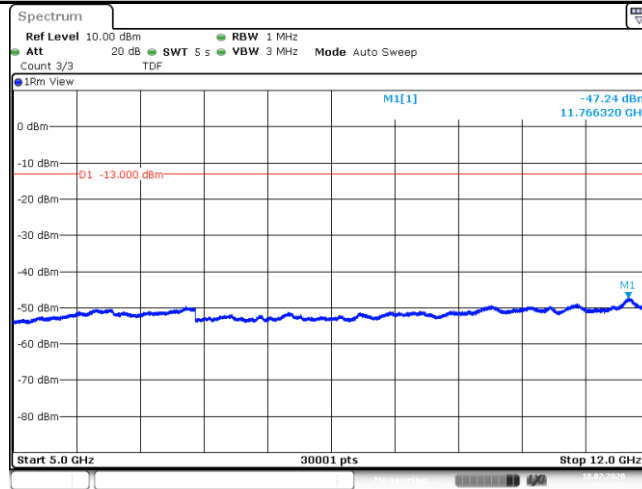
Band2_Stand-Alone_NaN_QPSK_19199_12@0_15kHz_12000_26500_12000~26500MHz@-41.04dBm_-13_PAS S_



Band2_Stand-Alone_NaN_QPSK_19199_12@0_15kHz_1000_5000_1000~5000MHz@-37.76dBm_-13_PASS__

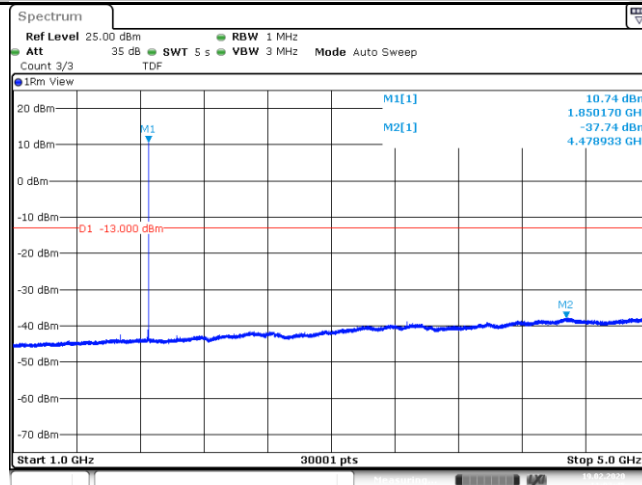


Band2_Stand-Alone_NaN_QPSK_19199_12@0_15kHz_5000_12000_5000~12000MHz@-47.24dBm_-13_PASS_



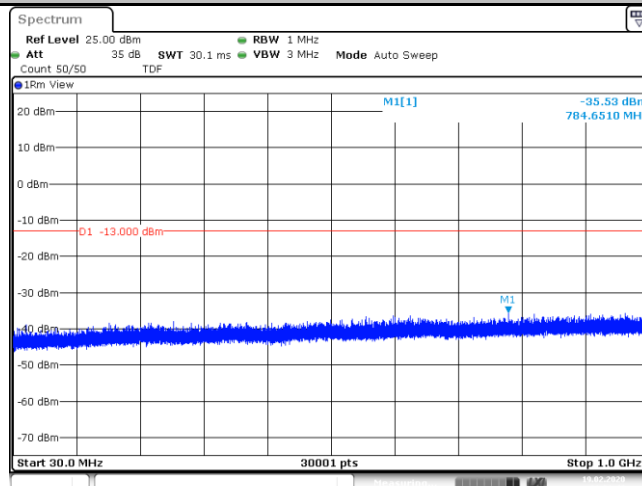
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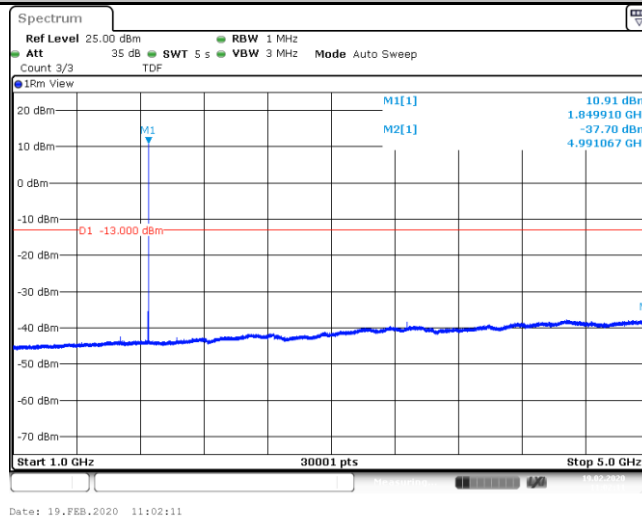
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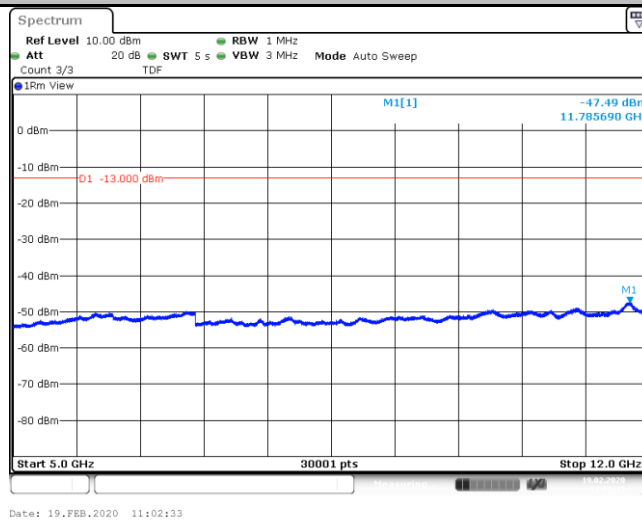


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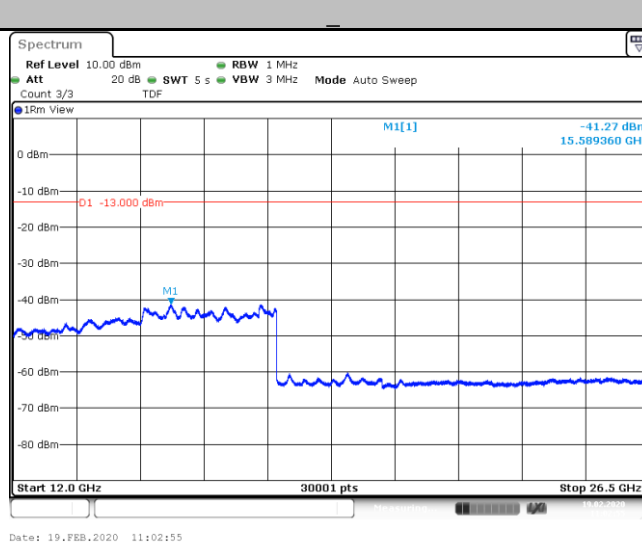
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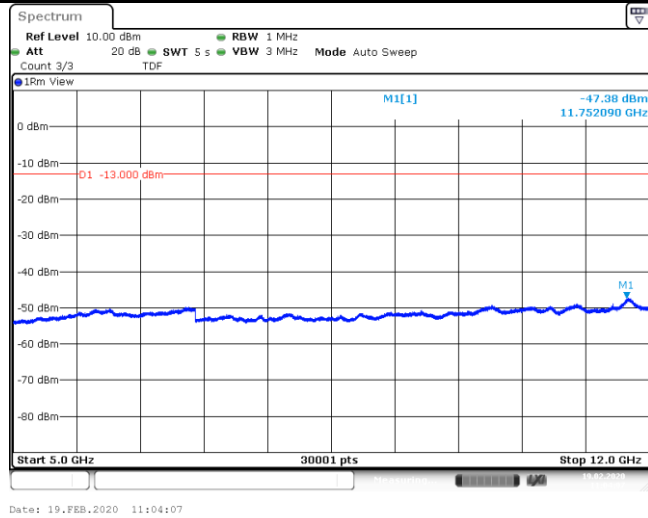
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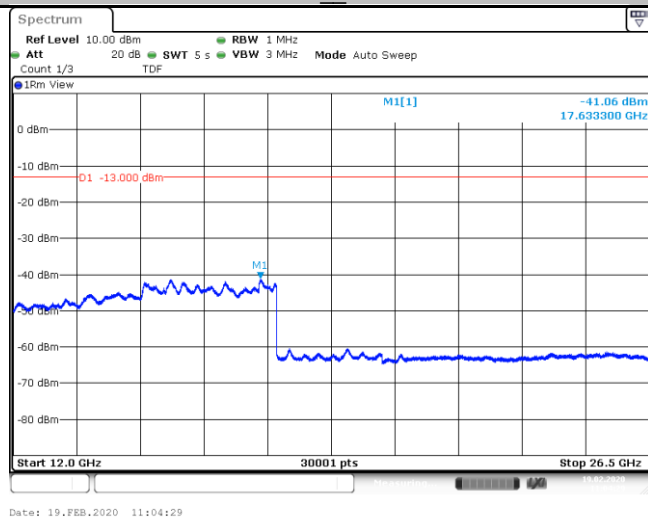
Band2_Stand-Alone_NaN_BPSK_18601_1@0_15kHz_12000_26500_12000~26500MHz@-41.27dBm_-13_PASS__



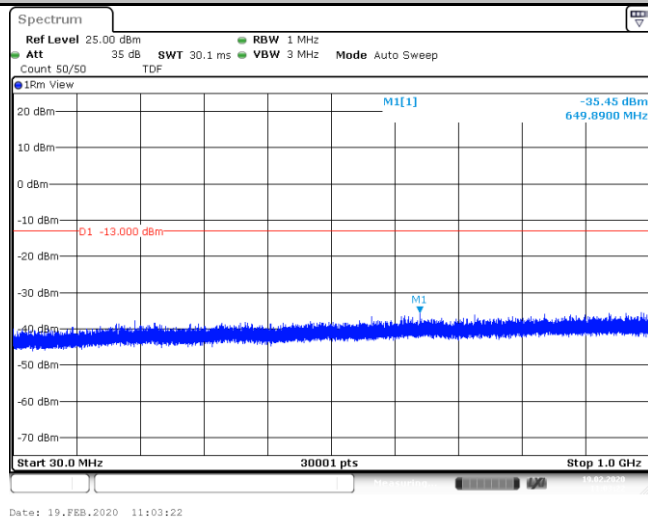
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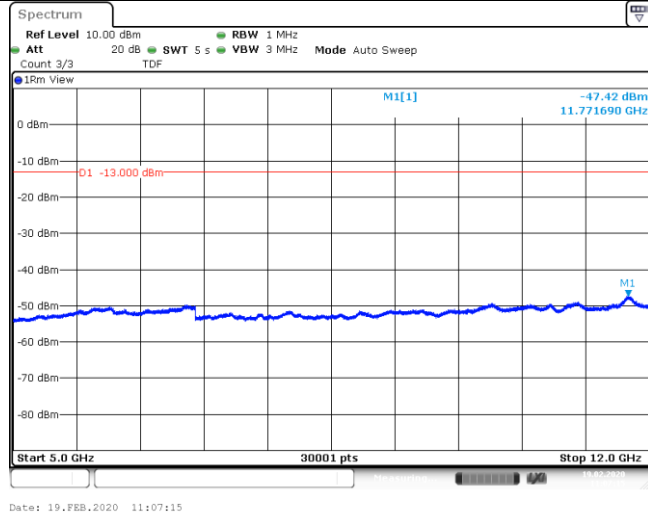
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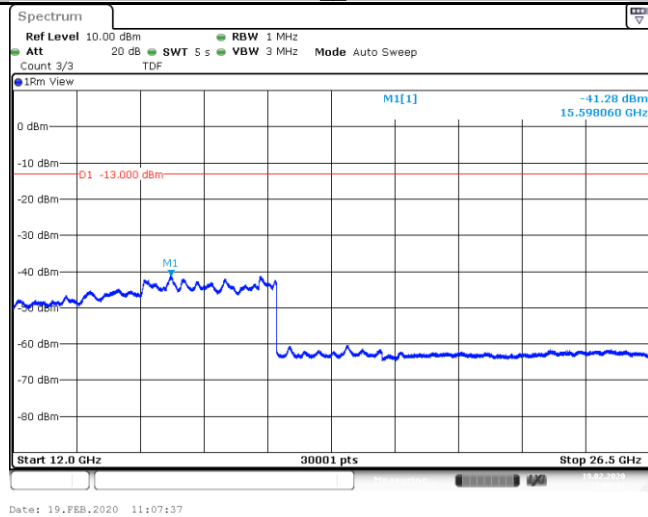
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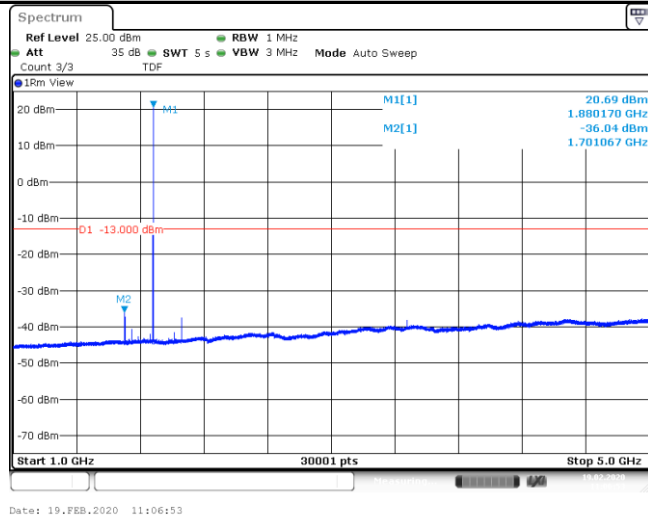
Band2_Stand-Alone_NaN_BPSK_18900_1@11_15kHz_5000_12000_5000~12000MHz@-47.42dBm_-13_PASS__



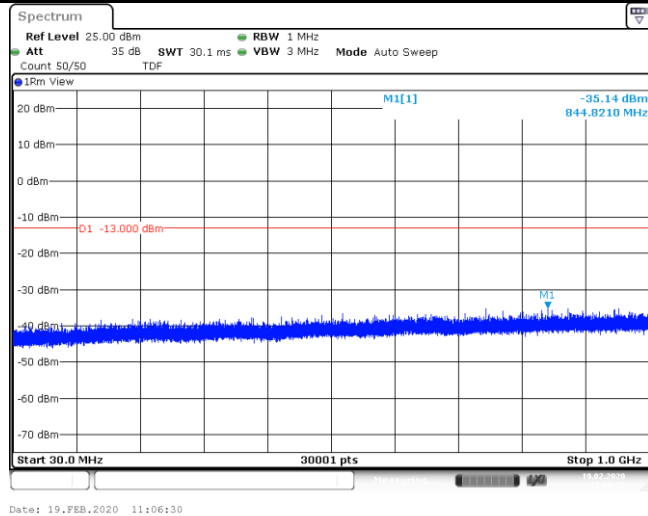
Band2_Stand-Alone_NaN_BPSK_18900_1@11_15kHz_12000_26500_12000~26500MHz@-41.28dBm_-13_PASS



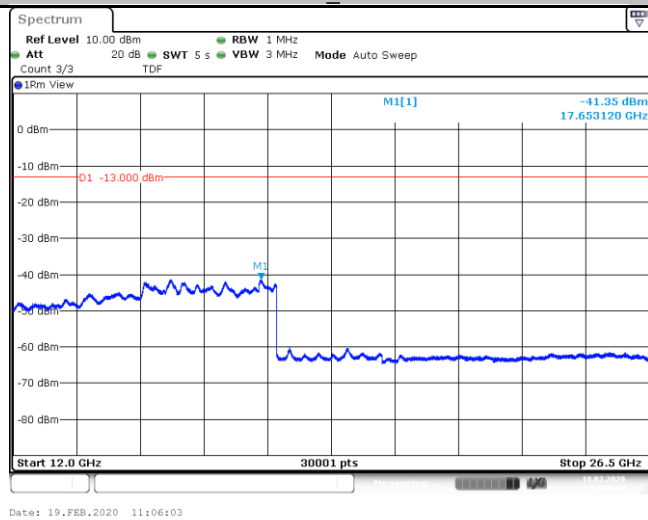
Band2_Stand-Alone_NaN_BPSK_18900_1@11_15kHz_1000_5000_1000~5000MHz@-36.04dBm_-13_PASS__



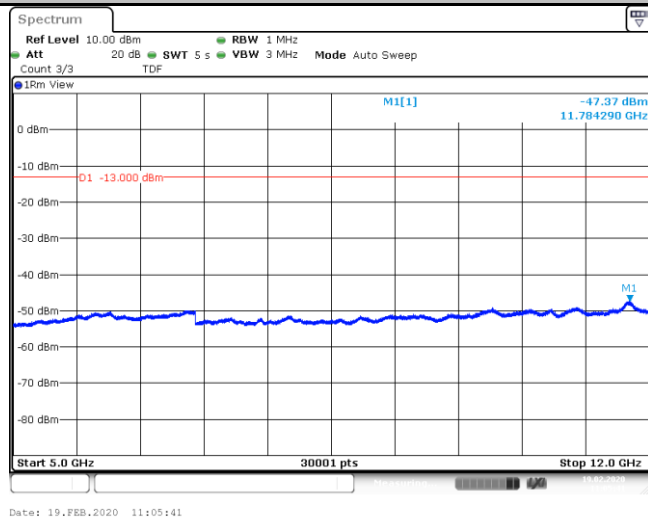
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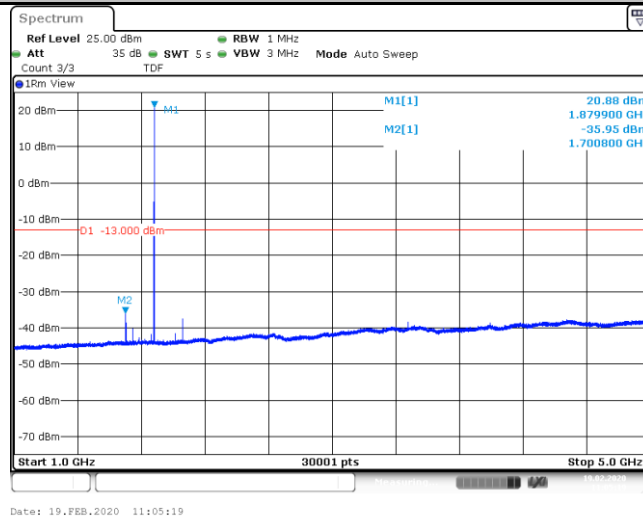
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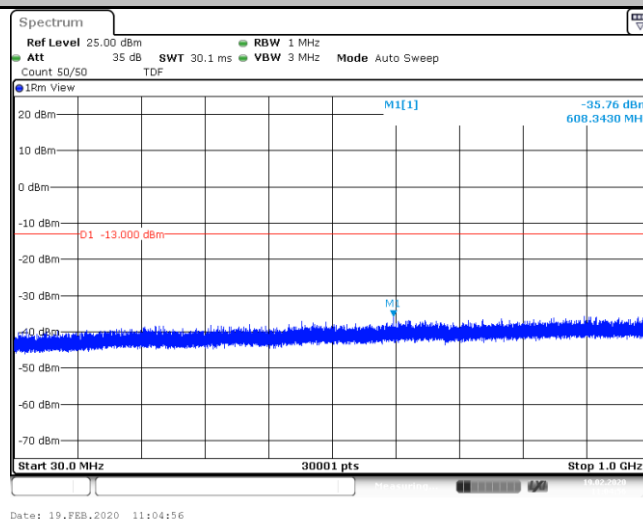
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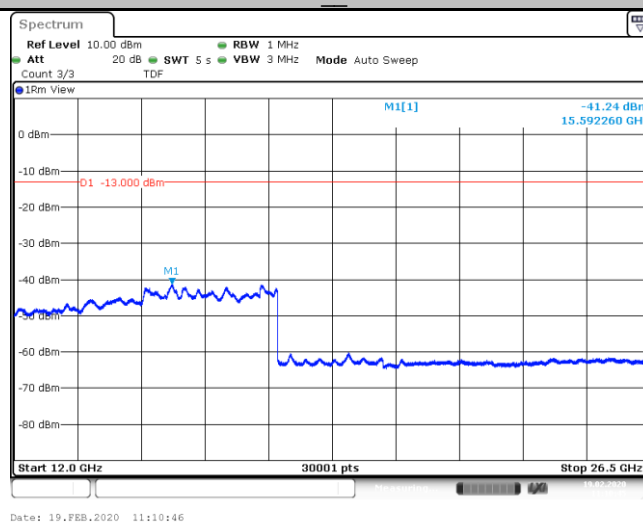
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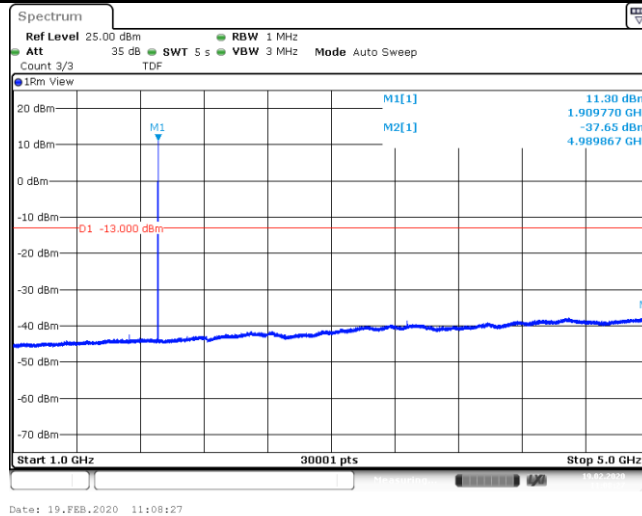
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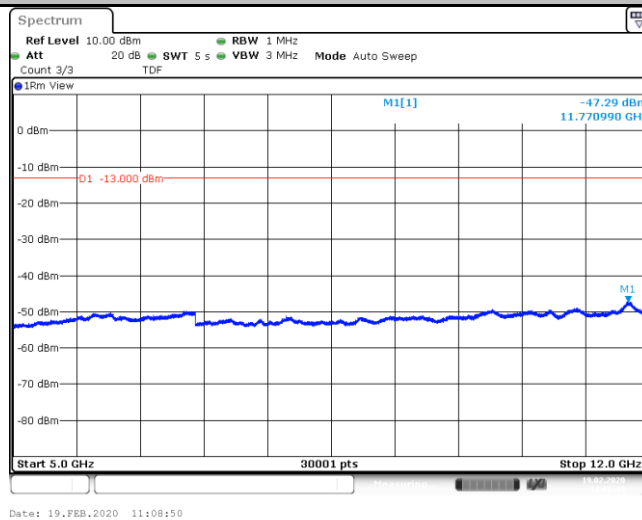
Band2_Stand-Alone_NaN_BPSK_19199_1@11_15kHz_12000_26500_12000~26500MHz@-41.24dBm_-13_PASS



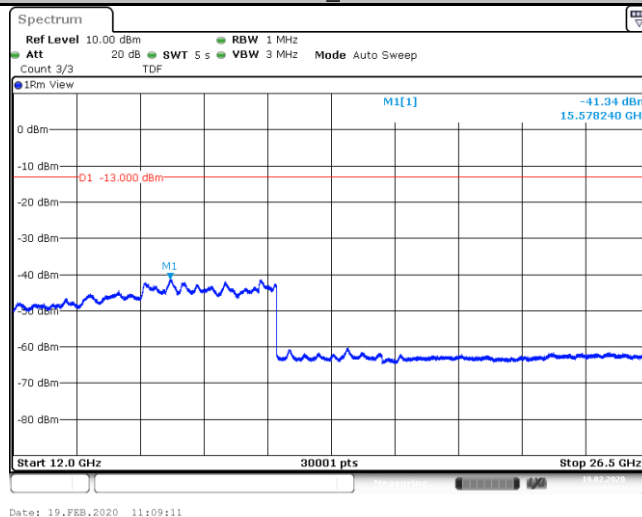
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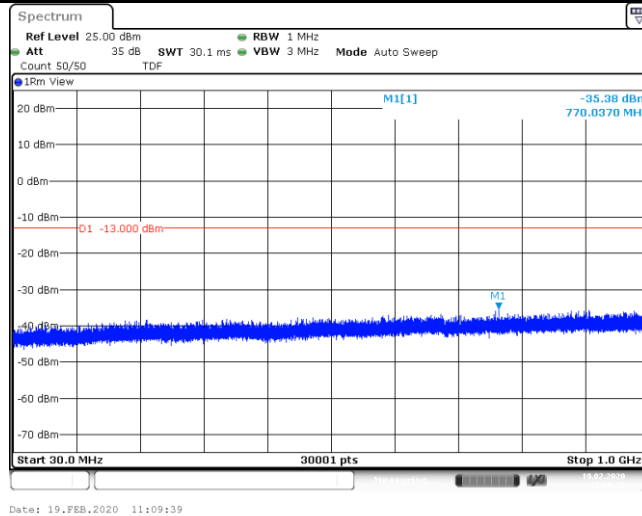
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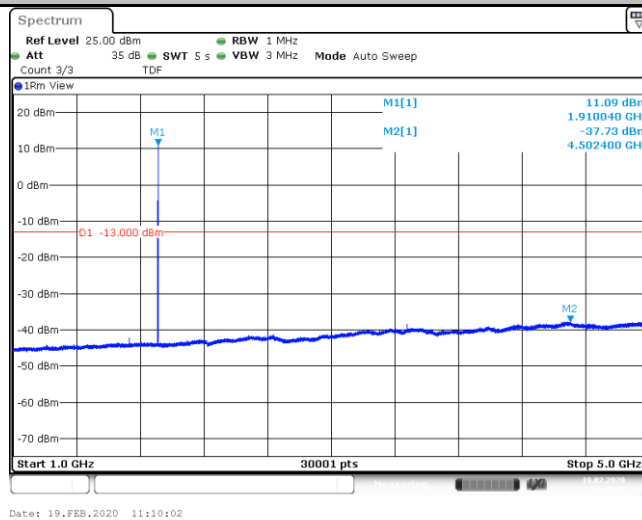
Band2_Stand-Alone_NaN_BPSK_19199_1@0_15kHz_12000_26500_12000~26500MHz@-41.34dBm_-13_PASS__



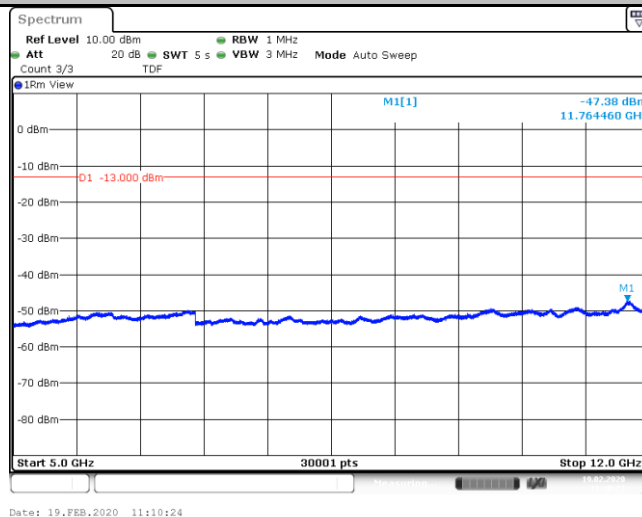
Band2_Stand-Alone_NaN_BPSK_19199_1@11_15kHz_30_1000_30~1000MHz@-35.38dBm_-13_PASS__



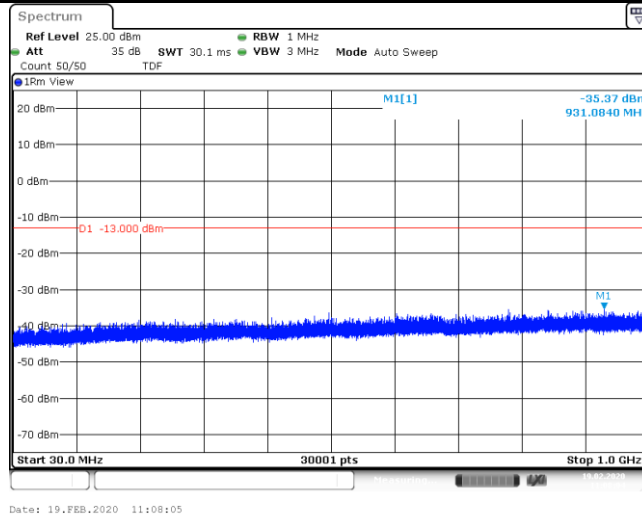
Band2_Stand-Alone_NaN_BPSK_19199_1@11_15kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS__



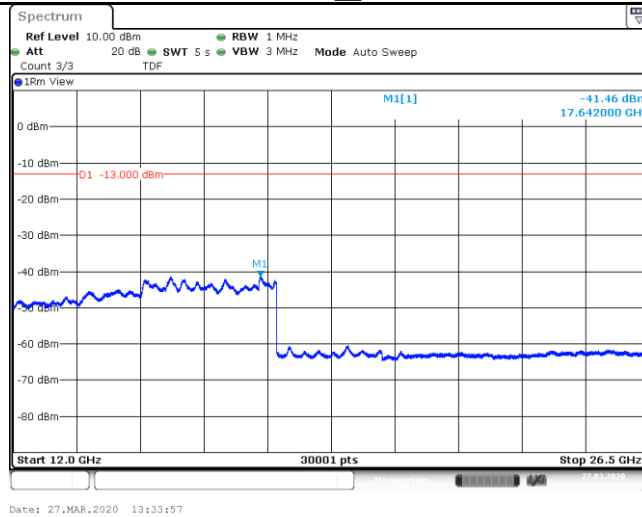
Band2_Stand-Alone_NaN_BPSK_19199_1@11_15kHz_5000_12000_5000~12000MHz@-47.38dBm_-13_PASS__



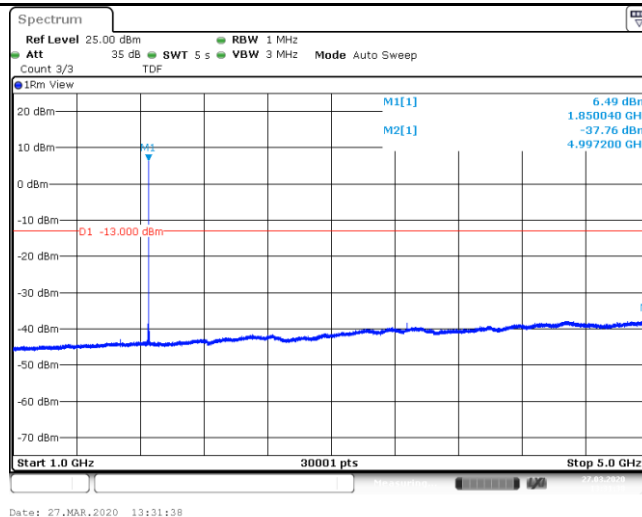
Band2_Stand-Alone_NaN_BPSK_19199_1@0_15kHz_30_1000_30~1000MHz@-35.37dBm_-13_PASS__



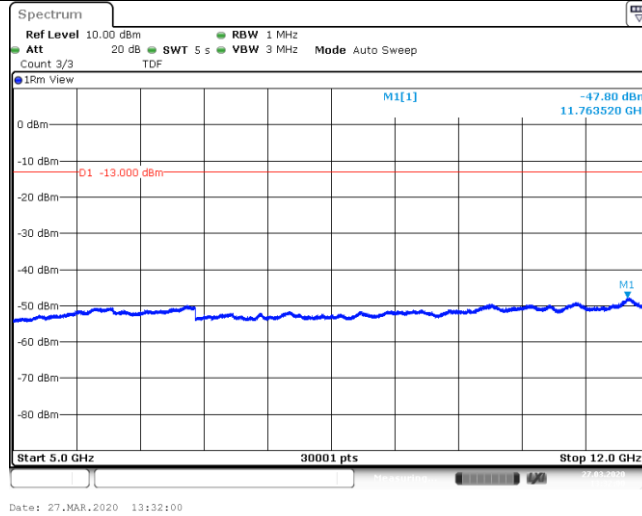
Band2_Stand-Alone_NaN_QPSK_18601_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.46dBm_-13_PA
SS__



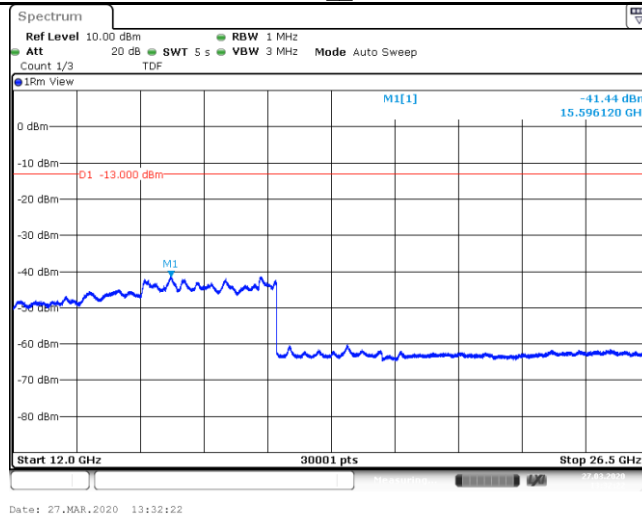
Band2_Stand-Alone_NaN_QPSK_18601_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.76dBm_-13_PASS__



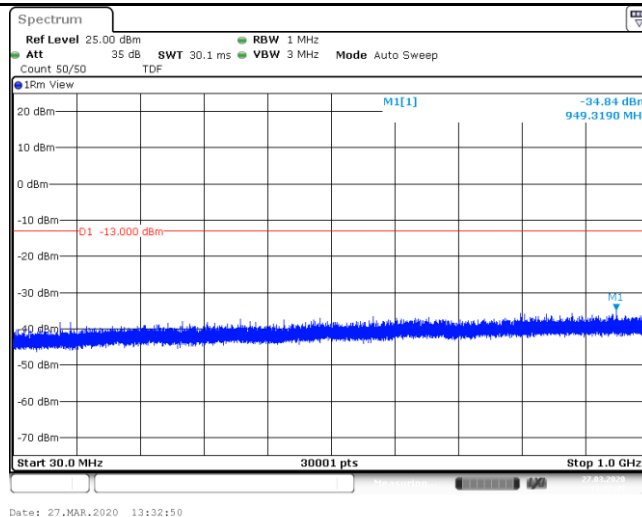
Band2_Stand-Alone_NaN_QPSK_18601_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.8dBm_-13_PASS__



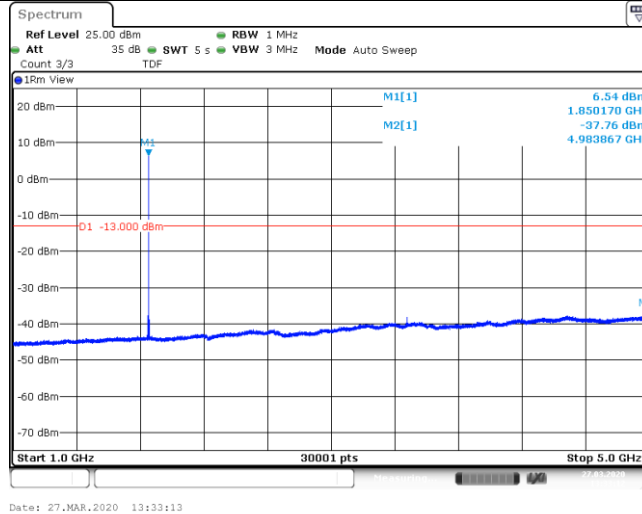
Band2_Stand-Alone_NaN_QPSK_18601_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.44dBm_-13_PAS
S__



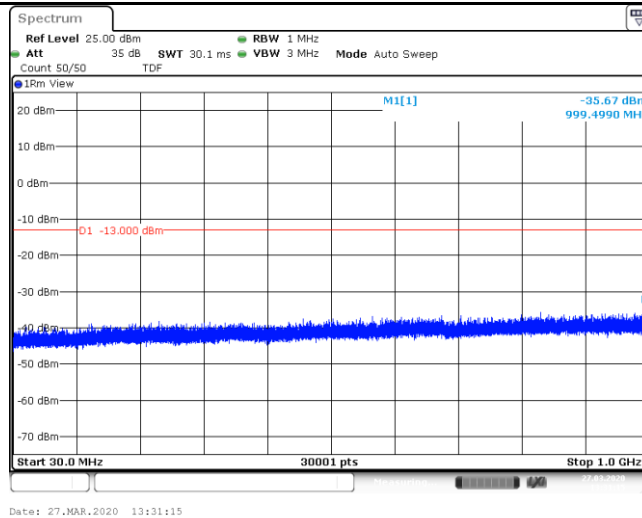
Band2_Stand-Alone_NaN_QPSK_18601_1@47_3.75kHz_30_1000_30~1000MHz@-34.84dBm_-13_PASS__



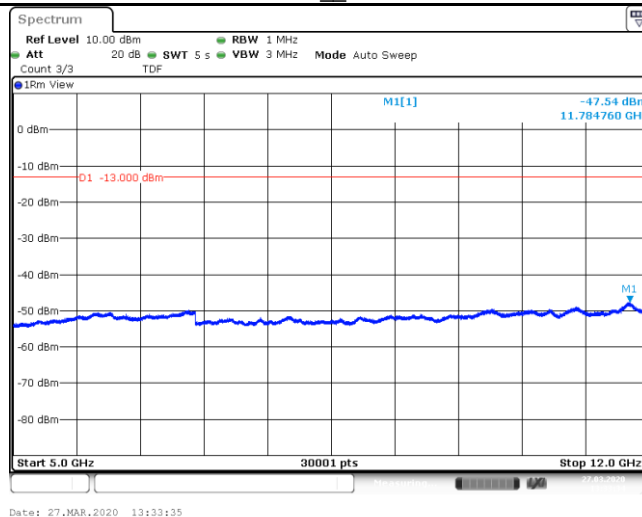
Band2_Stand-Alone_NaN_QPSK_18601_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.76dBm_-13_PASS__



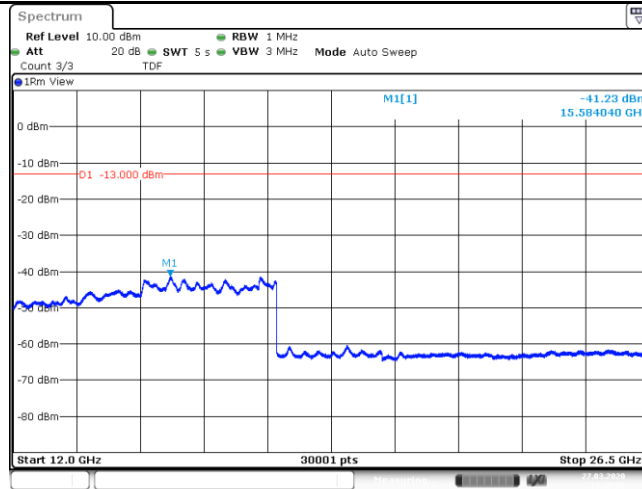
Band2_Stand-Alone_NaN_QPSK_18601_1@0_3.75kHz_30_1000_30~1000MHz@-35.67dBm_-13_PASS__



Band2_Stand-Alone_NaN_QPSK_18601_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.54dBm_-13_PASS

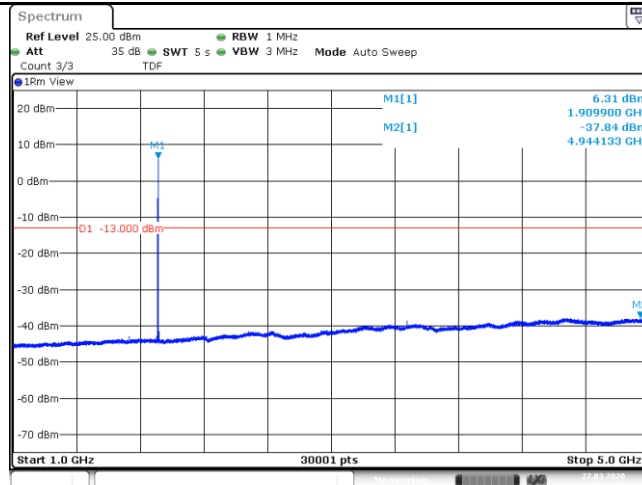


Band2_Stand-Alone_NaN_QPSK_19199_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.23dBm_-13_PA
SS



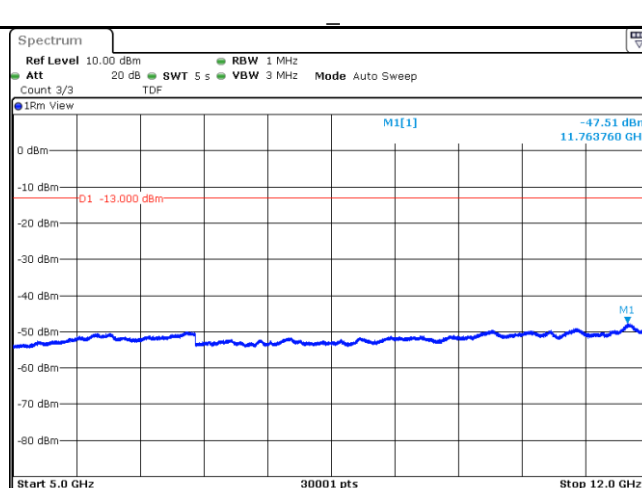
Date: 27.MAR.2020 13:37:06

Band2_Stand-Alone_NaN_QPSK_19199_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.84dBm_-13_PASS



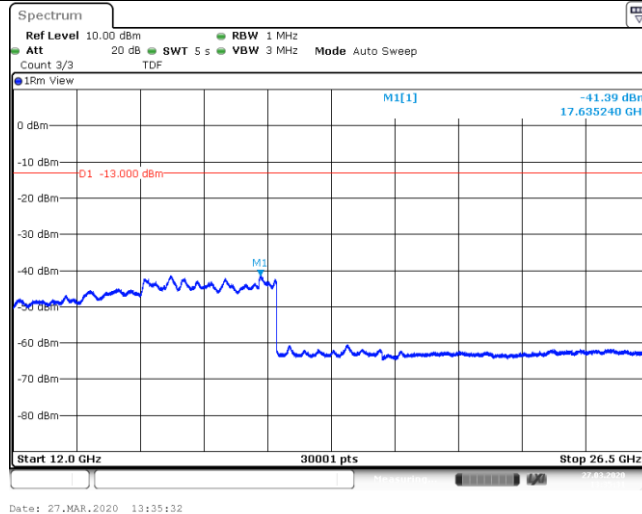
Date: 27.MAR.2020 13:34:48

Band2_Stand-Alone_NaN_QPSK_19199_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.51dBm_-13_PASS

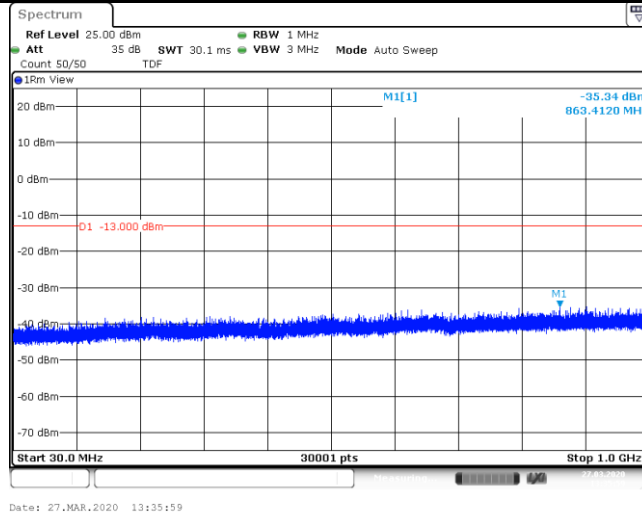


Date: 27.MAR.2020 13:35:10

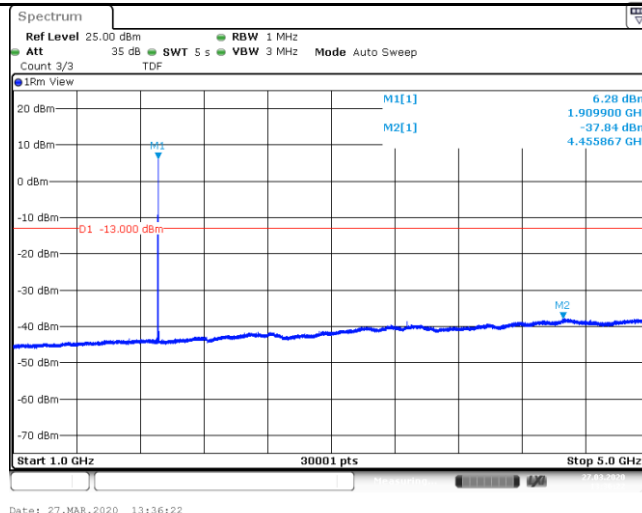
Band2_Stand-Alone_NaN_QPSK_19199_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.39dBm_-13_PAS
S



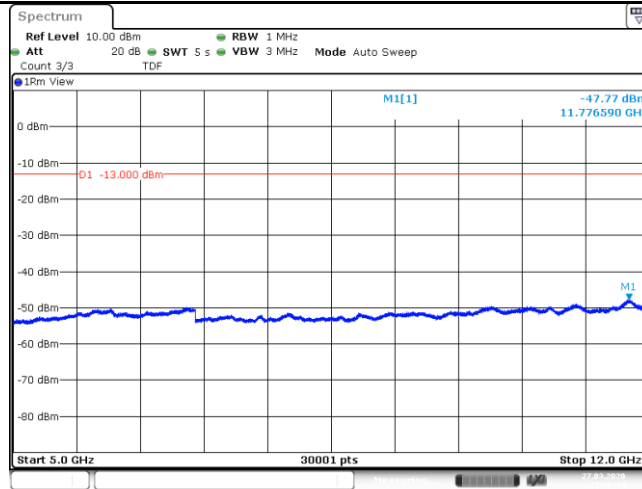
Band2_Stand-Alone_NaN_QPSK_19199_1@47_3.75kHz_30_1000_30~1000MHz@-35.34dBm_-13_PASS



Band2_Stand-Alone_NaN_QPSK_19199_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.84dBm_-13_PASS

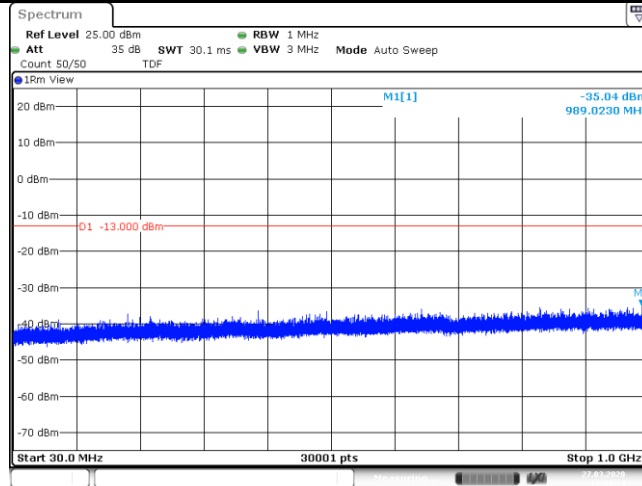


Band2_Stand-Alone_NaN_QPSK_19199_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.77dBm_-13_PASS



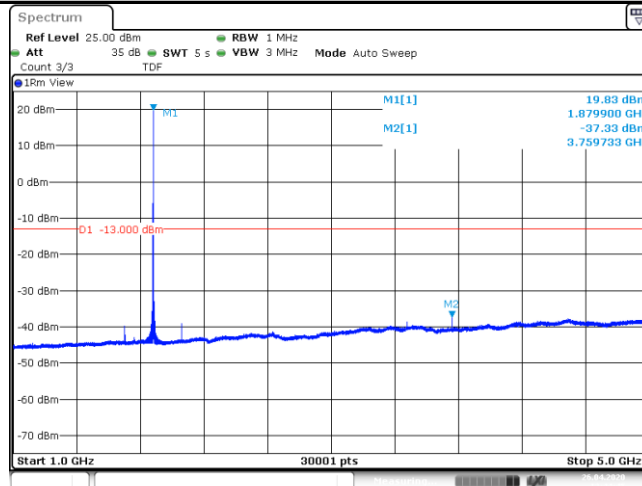
Date: 27.MAR.2020 13:36:44

Band2_Stand-Alone_NaN_QPSK_19199_1@0_3.75kHz_30_1000_30~1000MHz @-35.04dBm_-13_PASS__



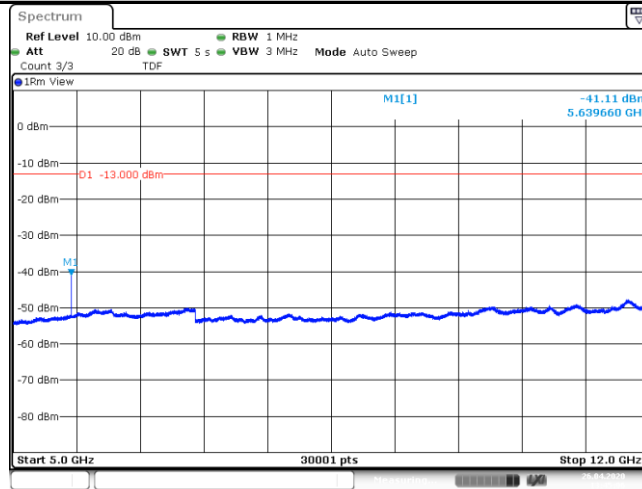
Date: 27.MAR.2020 13:34:25

Band2_Stand-Alone_NaN_QPSK_18900_1@0_3.75kHz_1000_5000_1000~5000MHz @-37.33dBm_-13_PASS__



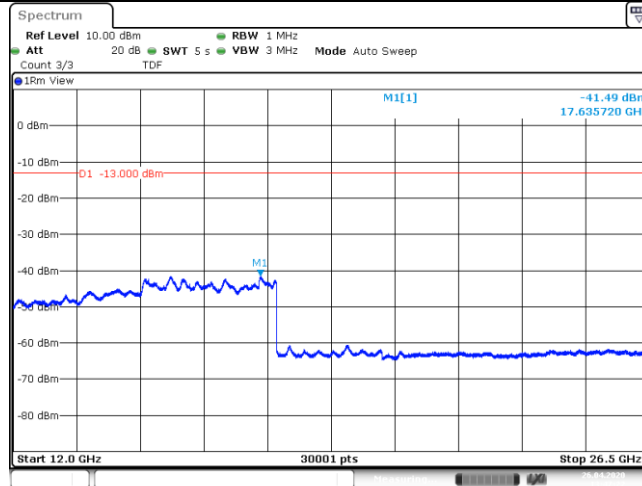
Date: 26.APR.2020 13:44:45

Band2_Stand-Alone_NaN_QPSK_18900_1@0_3.75kHz_5000_12000_5000~12000MHz@-41.11dBm_-13_PASS_



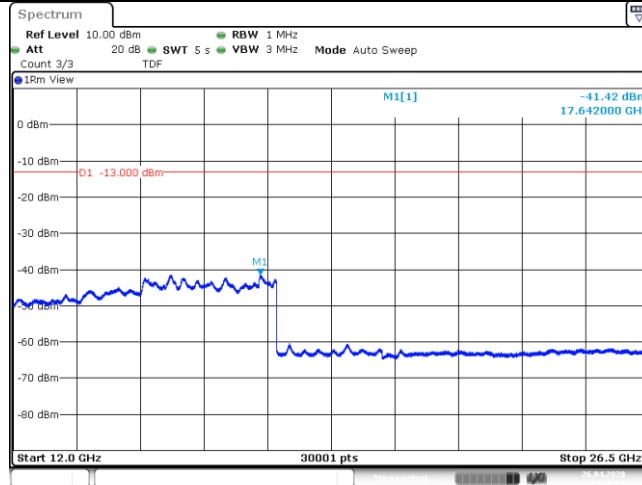
Date: 26.APR.2020 13:45:07

Band2_Stand-Alone_NaN_QPSK_18900_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.49dBm_-13_PA
SS_



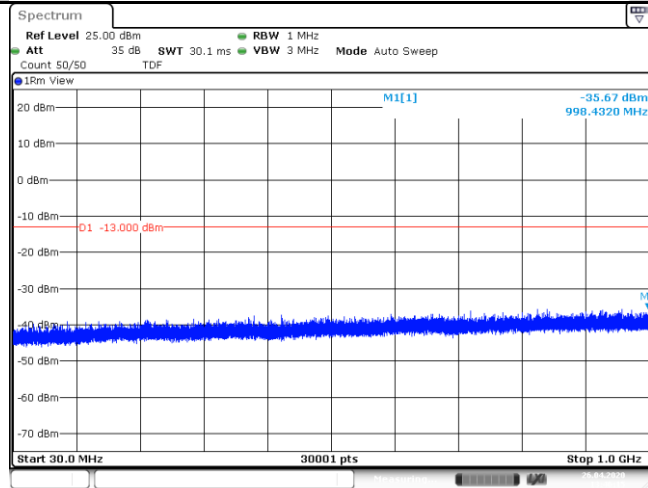
Date: 26.APR.2020 13:47:22

Band2_Stand-Alone_NaN_QPSK_18900_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.42dBm_-13_PAS
S_

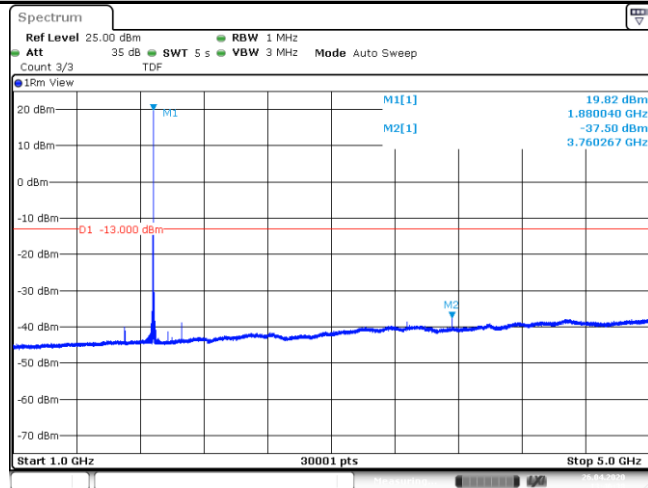


Date: 26.APR.2020 13:45:29

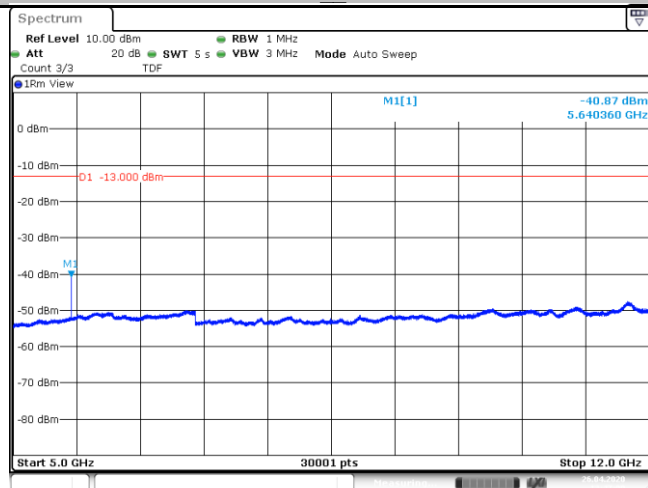
Band2_Stand-Alone_NaN_QPSK_18900_1@47_3.75kHz_30_1000_30~1000MHz@-35.67dBm_-13_PASS__



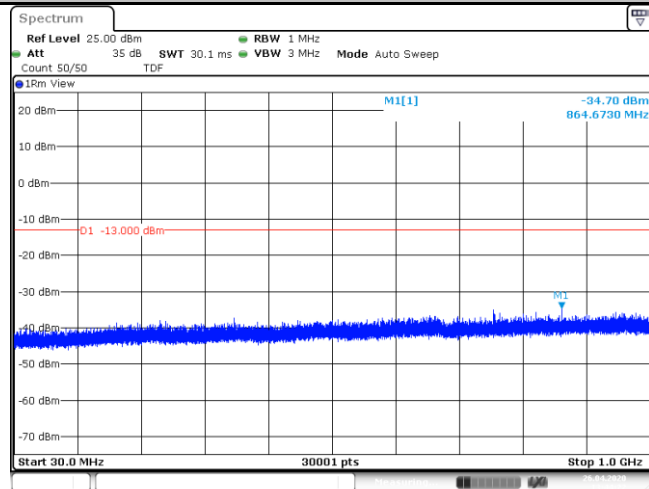
Band2_Stand-Alone_NaN_QPSK_18900_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.5dBm_-13_PASS__



Band2_Stand-Alone_NaN_QPSK_18900_1@47_3.75kHz_5000_12000_5000~12000MHz@-40.87dBm_-13_PASS



Band2_Stand-Alone_NaN_QPSK_18900_1@0_3.75kHz_30_1000_30~1000MHz@-34.7dBm_-13_PASS_



Date: 26.APR.2020 13:44:22

Appendix A.6: Frequency Stability for NB

Test Result

Voltage												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	HV	NT	-24.50	-0.013032	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	LV	NT	-24.49	-0.013027	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	NT	-28.05	-0.014920	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	HV	NT	-24.70	-0.013138	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	LV	NT	-24.38	-0.012968	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	NT	-29.87	-0.015888	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	HV	NT	-10.10	-0.005372	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	LV	NT	-11.79	-0.006271	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	NT	-11.23	-0.005973	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	HV	NT	-9.16	-0.004872	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	LV	NT	-10.69	-0.005686	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	NT	-9.46	-0.005032	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	-40	-25.13	-0.013367	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	-30	-25.81	-0.013729	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	-20	-27.74	-0.014755	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	-10	-30.01	-0.015963	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	0	-20.86	-0.011096	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	10	-31.66	-0.016840	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	20	-27.27	-0.014505	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	30	-21.87	-0.011633	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	40	-27.12	-0.014426	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	50	-26.19	-0.013931	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	60	-25.75	-0.013697	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	70	-26.25	-0.013963	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	-40	-25.26	-0.013436	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	85	-21.26	-0.011309	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	85	-23.29	-0.012388	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	-30	-29.91	-0.015910	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	-20	-27.05	-0.014388	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	-10	-21.41	-0.011388	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	0	-25.45	-0.013537	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	10	-25.88	-0.013766	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	20	-27.27	-0.014505	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	30	-22.02	-0.011713	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	40	-36.95	-0.019654	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	50	-23.66	-0.012585	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	60	-24.48	-0.013021	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	70	-26.92	-0.014319	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@11	15kHz	NV	80	-26.55	-0.014122	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	15kHz	NV	80	-29.58	-0.015734	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	-40	-8.58	-0.004564	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	-30	-9.33	-0.004963	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	-20	-7.85	-0.004176	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	-10	-9.81	-0.005218	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	0	5.16	0.002745	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	10	-7.04	-0.003745	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	20	6.05	0.003218	±2.5	PASS

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Produkte
Products

Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	30	4.82	0.002564	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	40	5.21	0.002771	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	50	-10.54	-0.005606	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	60	-10.47	-0.005569	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	70	-5.82	-0.003096	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	-40	-10.46	-0.005564	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	85	-6.98	-0.003713	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	85	-5.65	-0.003005	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	-30	-7.61	-0.004048	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	-20	-10.30	-0.005479	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	-10	-9.58	-0.005096	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	0	-6.85	-0.003644	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	10	-10.50	-0.005585	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	20	-10.26	-0.005457	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	30	-9.31	-0.004952	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	40	-8.67	-0.004612	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	50	-8.28	-0.004404	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	60	-5.68	-0.003021	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	70	5.45	0.002899	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@47	3.75kHz	NV	80	-8.37	-0.004452	±2.5	PASS
Band2	Stand-Alone	NaN	QPSK	18900	1@0	3.75kHz	NV	80	-7.00	-0.003723	±2.5	PASS