

Appendix I: Test Results of Band 66 for NB-IoT operation

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

Test Result

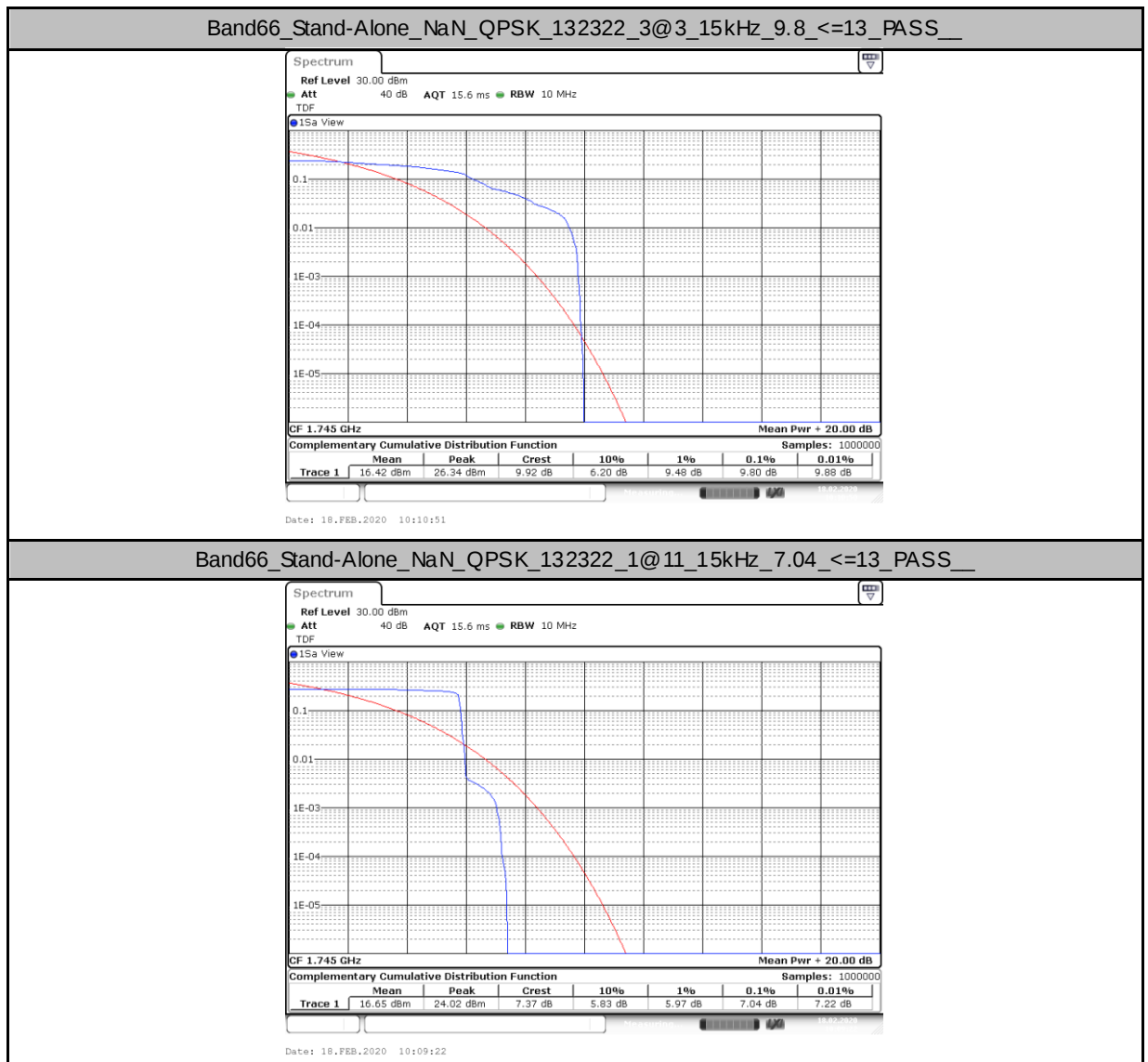
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	EIRP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band66	Stand-Alone	NaN	QPSK	131973	1@0	15kHz	11.42	13.56	0.023	1	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@11	15kHz	11.39	13.53	0.023	1	PASS
Band66	Stand-Alone	NaN	QPSK	131973	3@3	15kHz	11.47	13.61	0.023	1	PASS
Band66	Stand-Alone	NaN	QPSK	131974	1@0	15kHz	21.28	23.42	0.220	1	PASS
Band66	Stand-Alone	NaN	QPSK	131974	1@11	15kHz	21.25	23.39	0.218	1	PASS
Band66	Stand-Alone	NaN	QPSK	131974	3@3	15kHz	24.27	26.41	0.438	1	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	23.18	25.32	0.340	1	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	23.16	25.3	0.339	1	PASS
Band66	Stand-Alone	NaN	QPSK	132322	3@3	15kHz	23.18	25.32	0.340	1	PASS
Band66	Stand-Alone	NaN	QPSK	132670	1@11	15kHz	24.21	26.35	0.432	1	PASS
Band66	Stand-Alone	NaN	QPSK	132670	3@3	15kHz	25.0	27.14	0.518	1	PASS
Band66	Stand-Alone	NaN	QPSK	132670	1@0	15kHz	24.25	26.39	0.436	1	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@11	15kHz	11.57	13.71	0.023	1	PASS
Band66	Stand-Alone	NaN	QPSK	132671	3@3	15kHz	11.77	13.91	0.025	1	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	15kHz	11.71	13.85	0.024	1	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@11	15kHz	11.19	13.33	0.022	1	PASS
Band66	Stand-Alone	NaN	BPSK	131973	3@3	15kHz	11.45	13.59	0.023	1	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	11.40	13.54	0.023	1	PASS
Band66	Stand-Alone	NaN	BPSK	131974	1@11	15kHz	21.13	23.27	0.212	1	PASS
Band66	Stand-Alone	NaN	BPSK	131974	1@0	15kHz	21.14	23.28	0.213	1	PASS
Band66	Stand-Alone	NaN	BPSK	131974	3@3	15kHz	22.41	24.55	0.285	1	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@11	15kHz	22.96	25.1	0.324	1	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	23.12	25.26	0.336	1	PASS
Band66	Stand-Alone	NaN	BPSK	132322	3@3	15kHz	23.16	25.3	0.339	1	PASS
Band66	Stand-Alone	NaN	BPSK	132670	1@0	15kHz	24.09	26.23	0.420	1	PASS
Band66	Stand-Alone	NaN	BPSK	132670	1@11	15kHz	24.11	26.25	0.422	1	PASS
Band66	Stand-Alone	NaN	BPSK	132670	3@3	15kHz	24.52	26.66	0.463	1	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@11	15kHz	11.53	13.67	0.023	1	PASS
Band66	Stand-Alone	NaN	BPSK	132671	3@3	15kHz	11.75	13.89	0.024	1	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	11.51	13.65	0.023	1	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@47	3.75kHz	6.46	8.6	0.007	1	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	6.48	8.62	0.007	1	PASS
Band66	Stand-Alone	NaN	QPSK	131974	1@0	3.75kHz	24.59	26.73	0.471	1	PASS
Band66	Stand-Alone	NaN	QPSK	131974	1@47	3.75kHz	24.52	26.66	0.463	1	PASS
Band66	Stand-Alone	NaN	QPSK	132670	1@0	3.75kHz	24.68	26.82	0.481	1	PASS
Band66	Stand-Alone	NaN	QPSK	132670	1@47	3.75kHz	24.69	26.83	0.482	1	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@47	3.75kHz	6.47	8.61	0.007	1	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	6.56	8.7	0.007	1	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@47	3.75kHz	6.38	8.52	0.007	1	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	3.75kHz	6.39	8.53	0.007	1	PASS
Band66	Stand-Alone	NaN	BPSK	131974	1@0	3.75kHz	24.45	26.59	0.456	1	PASS
Band66	Stand-Alone	NaN	BPSK	131974	1@47	3.75kHz	24.37	26.51	0.448	1	PASS
Band66	Stand-Alone	NaN	BPSK	132670	1@0	3.75kHz	24.54	26.68	0.466	1	PASS
Band66	Stand-Alone	NaN	BPSK	132670	1@47	3.75kHz	24.52	26.66	0.463	1	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@47	3.75kHz	6.44	8.58	0.007	1	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	3.75kHz	6.48	8.62	0.007	1	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	24.46	26.6	0.457	1	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	24.44	26.58	0.455	1	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	3.75kHz	24.34	26.48	0.445	1	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@47	3.75kHz	24.31	26.45	0.442	1	PASS

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

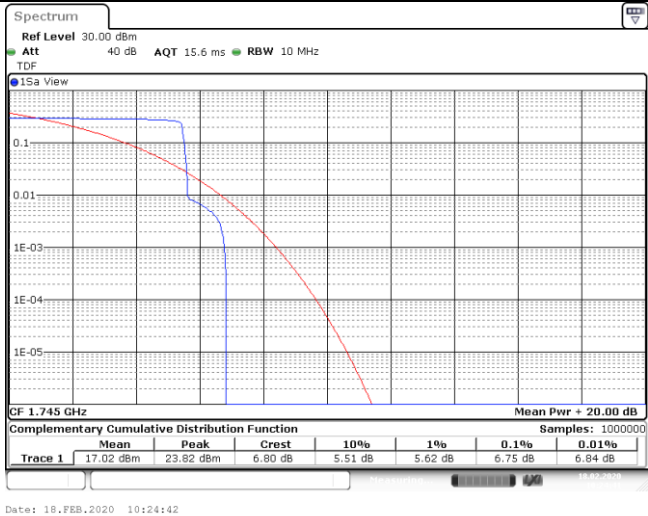
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band66	Stand-Alone	NaN	QPSK	132322	3@3	15kHz	9.8	<=13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	7.04	<=13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	6.75	<=13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	3@3	15kHz	9.74	<=13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@11	15kHz	9.97	<=13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	8.49	<=13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	1.86	<=13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	2.14	<=13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@47	3.75kHz	2.06	<=13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	3.75kHz	2.06	<=13	PASS

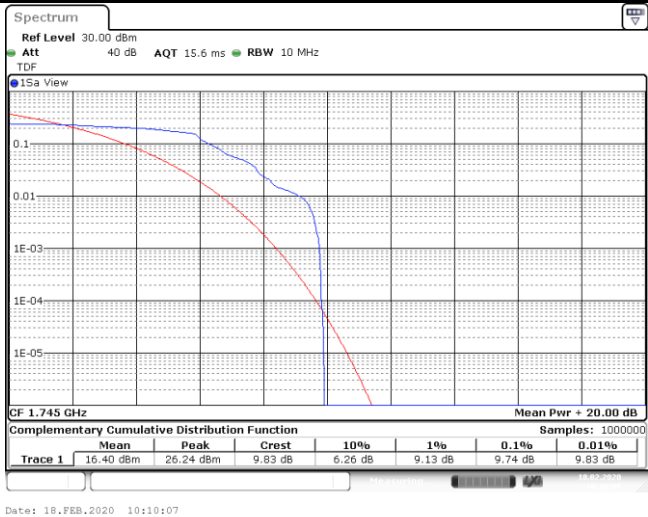
Test Graphs



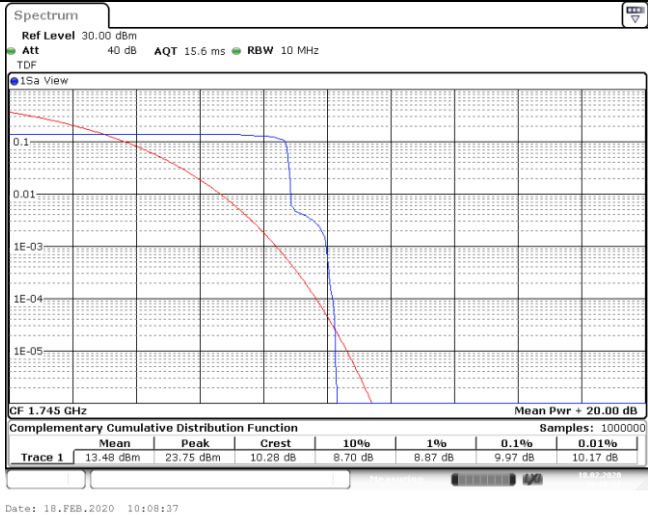
Band66_Stand-Alone_NaN_QPSK_132322_1@0_15kHz_6.75_<=13_PASS__



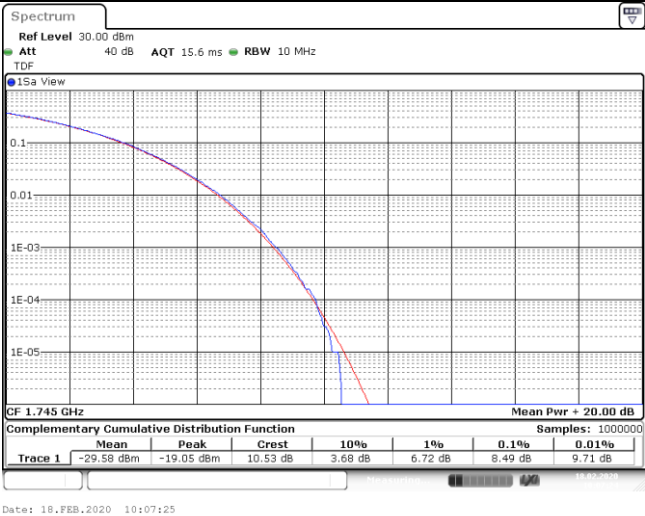
Band66_Stand-Alone_NaN_BPSK_132322_3@3_15kHz_9.74_<=13_PASS__



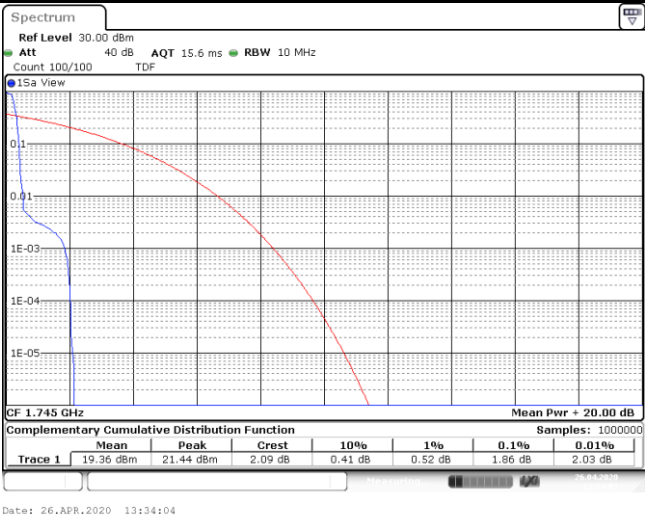
Band66_Stand-Alone_NaN_BPSK_132322_1@11_15kHz_9.97_<=13_PASS__



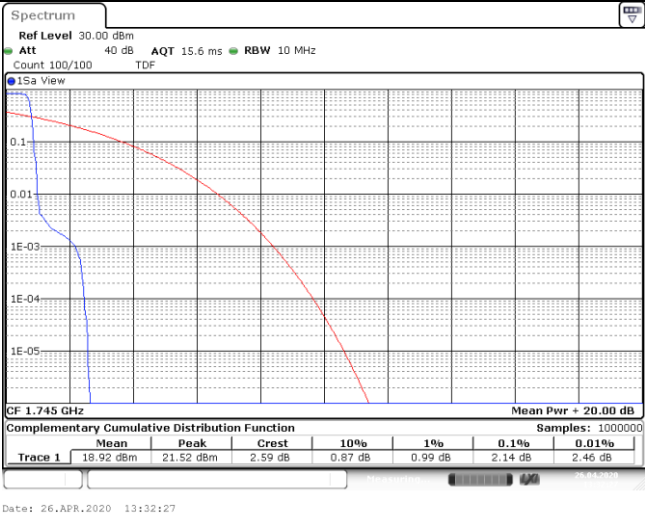
Band66_Stand-Alone_NaN_BPSK_132322_1@0_15kHz_8.49_<=13_PASS__



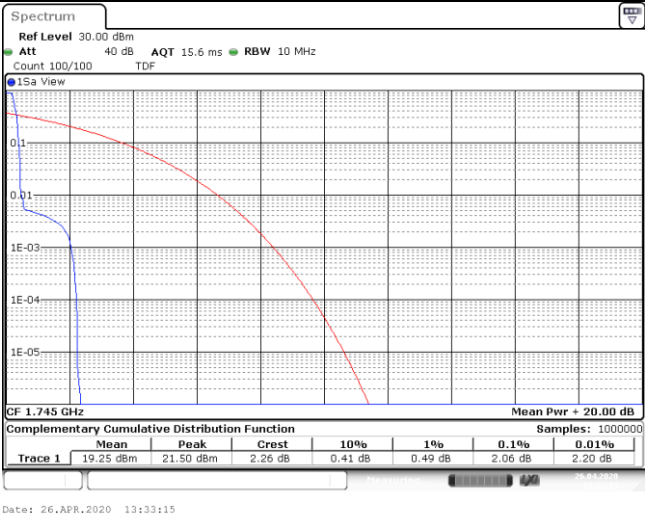
Band66_Stand-Alone_NaN_QPSK_132322_1@47_3.75kHz_1.86_<=13_PASS__



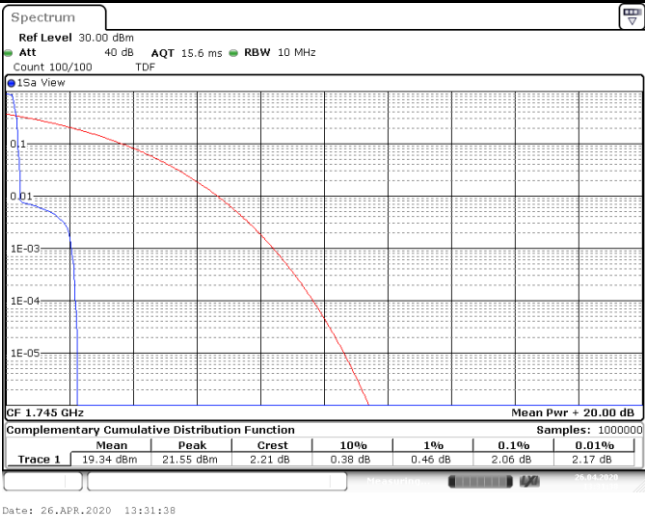
Band66_Stand-Alone_NaN_QPSK_132322_1@0_3.75kHz_2.14_<=13_PASS__



Band66_Stand-Alone_NaN_BPSK_132322_1@47_3.75kHz_2.06_<=13_PASS__



Band66_Stand-Alone_NaN_BPSK_132322_1@0_3.75kHz_2.06_<=13_PASS__

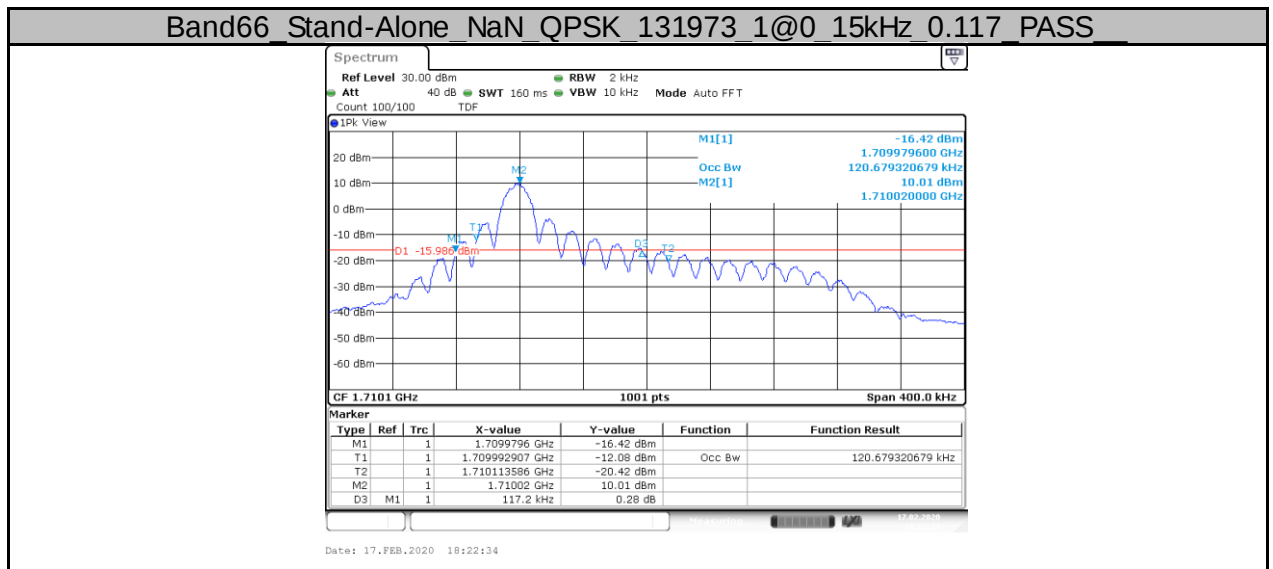


Appendix I.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

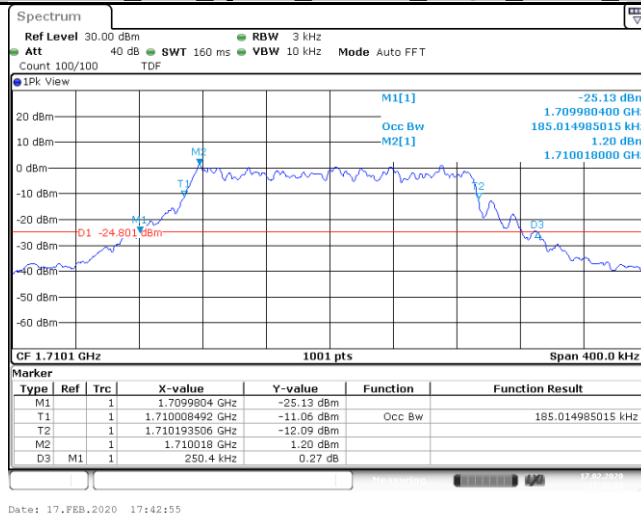
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band66	Stand-Alone	NaN	QPSK	131973	1@0	15kHz	0.117	0.121	PASS
Band66	Stand-Alone	NaN	QPSK	131973	12@0	15kHz	0.250	0.185	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	0.118	0.121	PASS
Band66	Stand-Alone	NaN	QPSK	132322	12@0	15kHz	0.250	0.185	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	15kHz	0.118	0.121	PASS
Band66	Stand-Alone	NaN	QPSK	132671	12@0	15kHz	0.257	0.185	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	0.106	0.129	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	0.106	0.129	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	0.107	0.129	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	0.038	0.052	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	0.038	0.052	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	3.75kHz	0.036	0.057	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	3.75kHz	0.036	0.057	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	0.037	0.050	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	3.75kHz	0.035	0.055	PASS

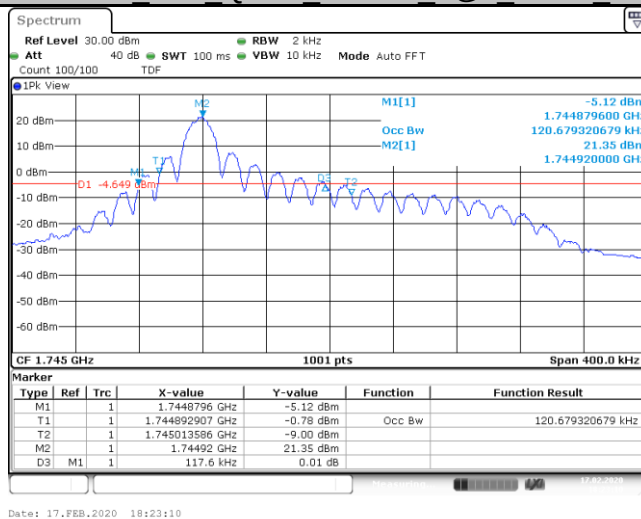
Test Graphs



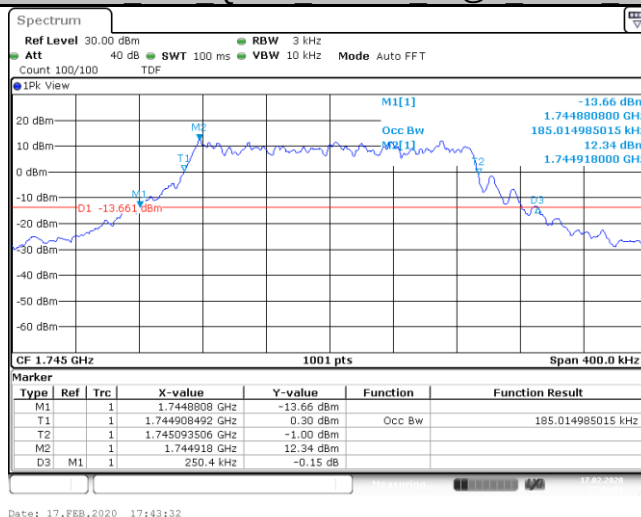
Band66 Stand-Alone NaN QPSK 131973 12@0 15kHz 0.250 PASS



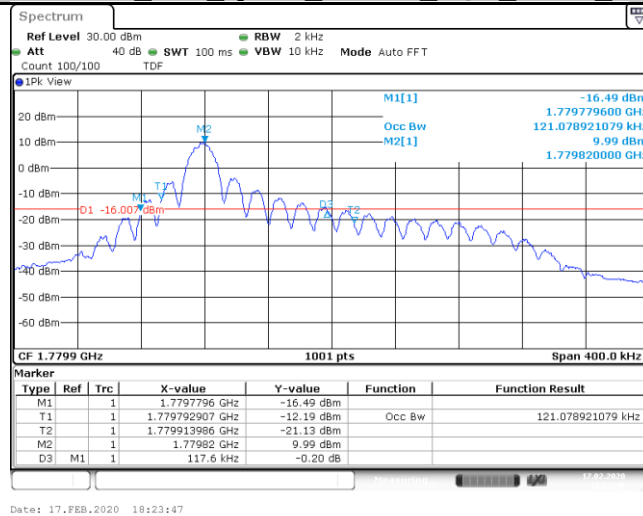
Band66 Stand-Alone NaN QPSK 132322 1@0 15kHz 0.118 PASS



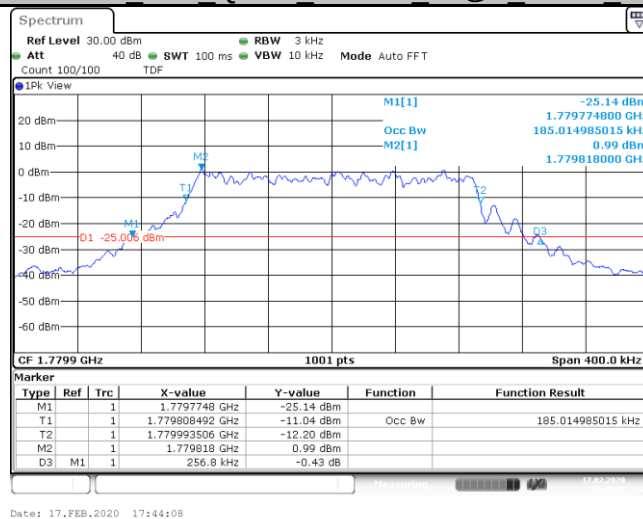
Band66 Stand-Alone NaN QPSK 132322 12@0 15kHz 0.250 PASS



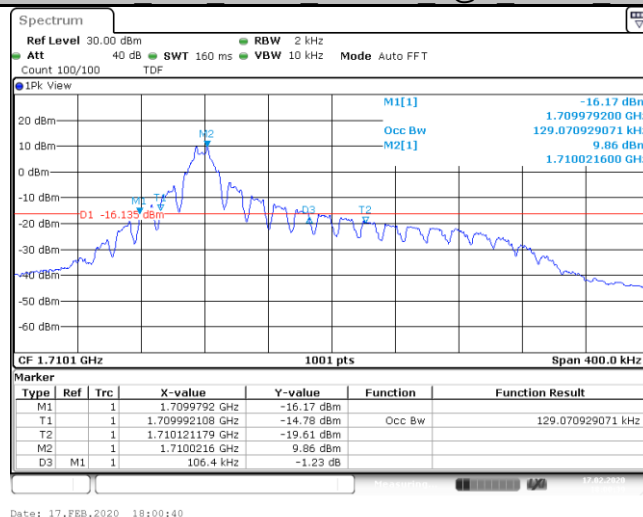
Band66 Stand-Alone NaN QPSK 132671 1@0 15kHz 0.118 PASS



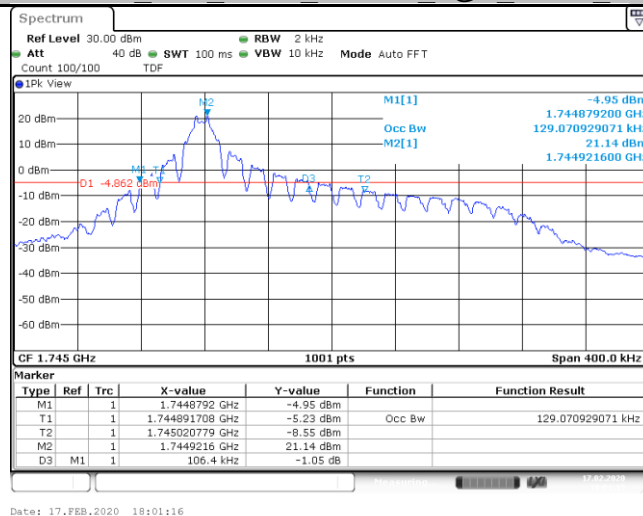
Band66 Stand-Alone NaN QPSK 132671 12@0 15kHz 0.257 PASS



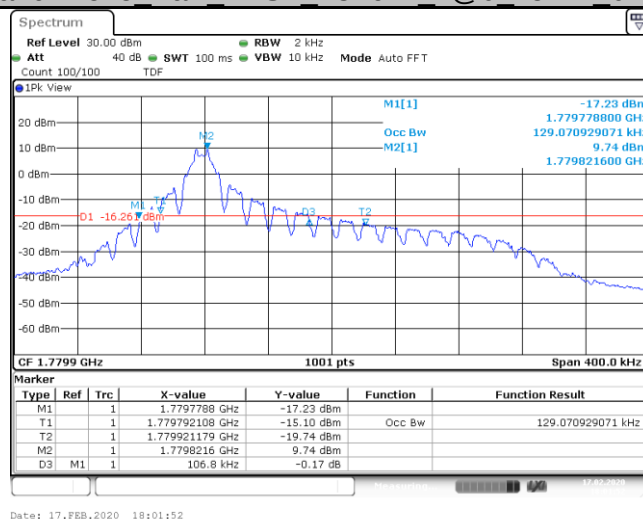
Band66 Stand-Alone NaN BPSK 131973 1@0 15kHz 0.106 PASS



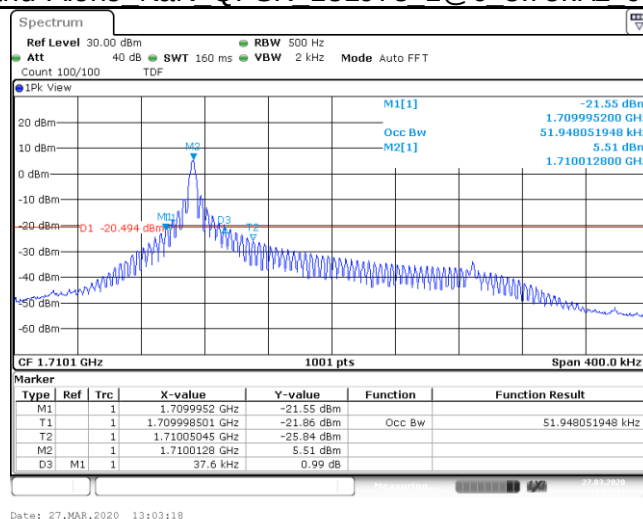
Band66 Stand-Alone NaN BPSK 132322 1@0 15kHz 0.106 PASS



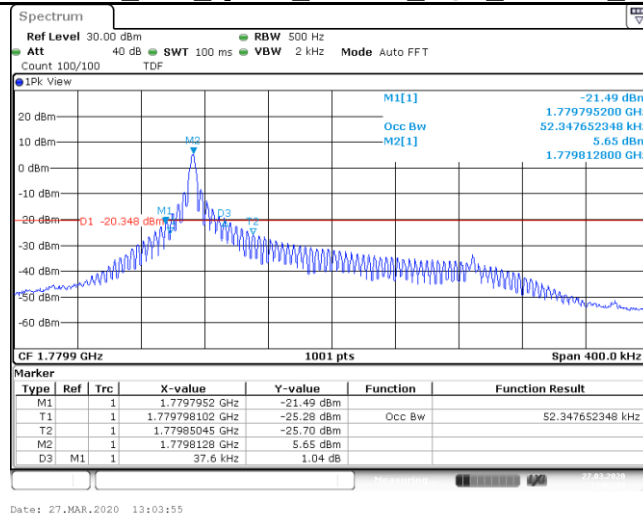
Band66 Stand-Alone NaN BPSK 132671 1@0 15kHz 0.107 PASS



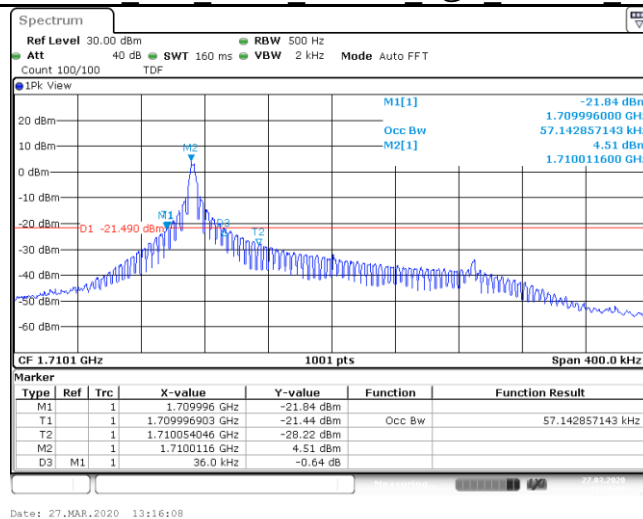
Band66 Stand-Alone NaN QPSK 131973 1@0 3.75kHz 0.038 PASS



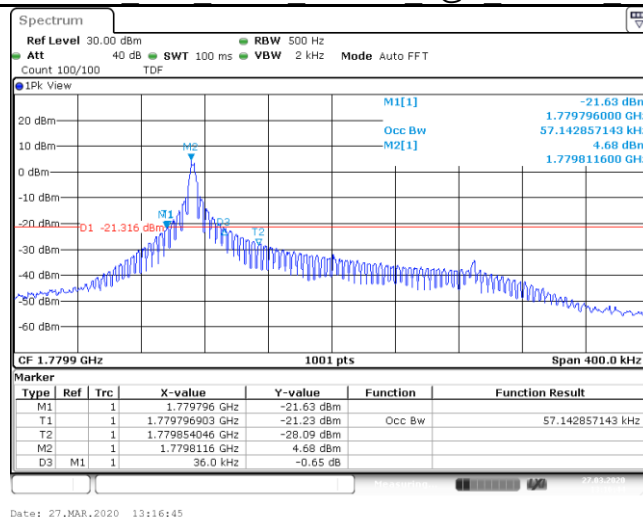
Band66 Stand-Alone NaN QPSK 132671 1@0 3.75kHz 0.038 PASS



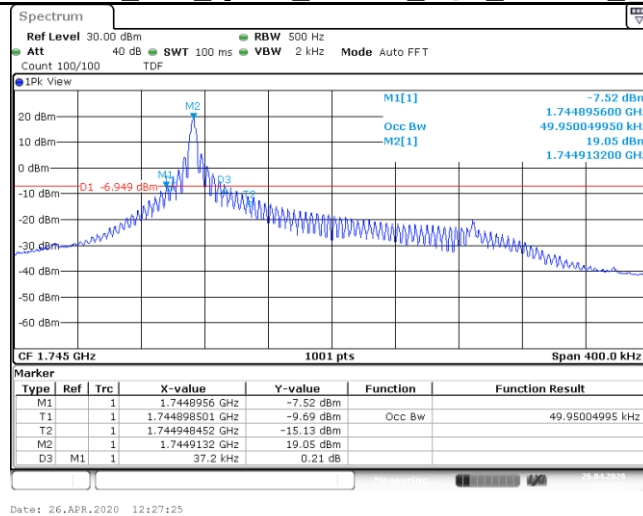
Band66 Stand-Alone NaN BPSK 131973 1@0 3.75kHz 0.036 PASS



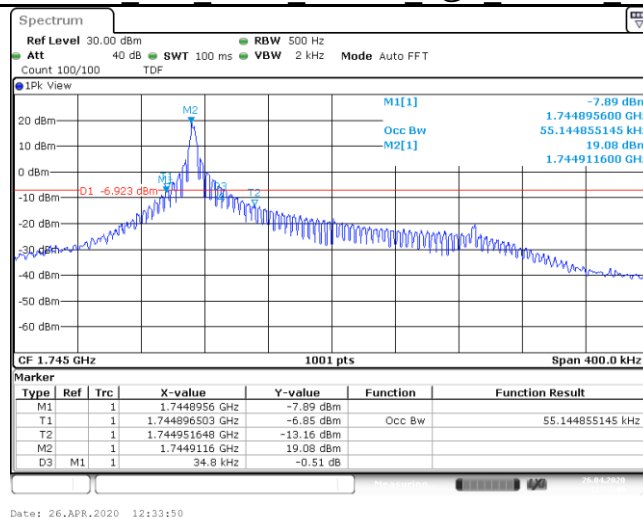
Band66 Stand-Alone NaN BPSK 132671 1@0 3.75kHz 0.036 PASS



Band66 Stand-Alone NaN QPSK 132322_1@0 3.75kHz 0.037 PASS



Band66 Stand-Alone NaN BPSK 132322_1@0 3.75kHz 0.035 PASS

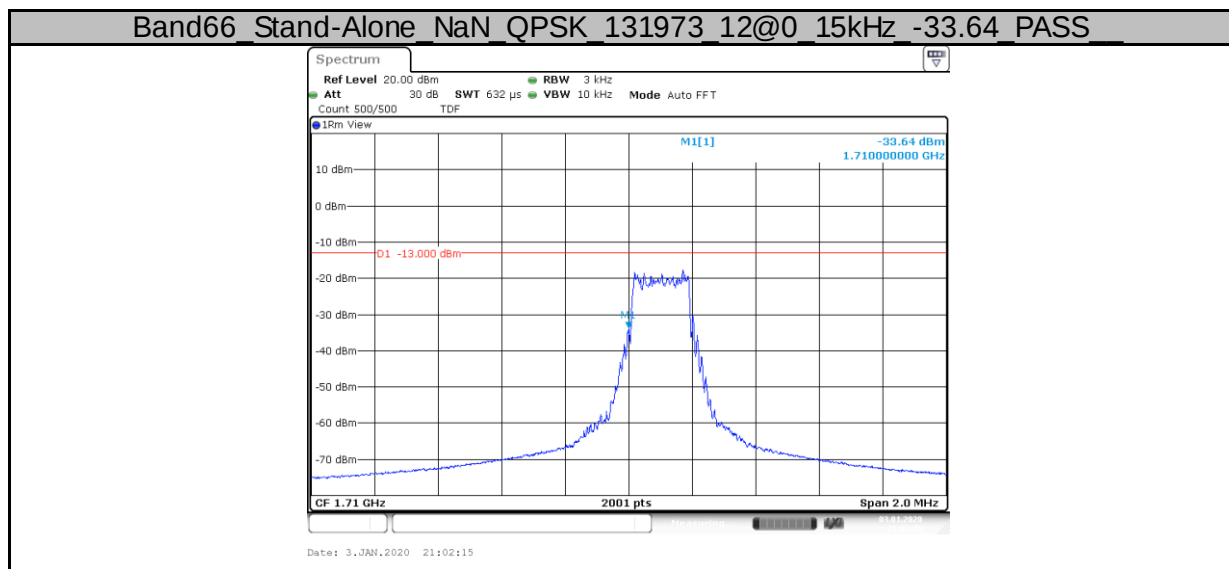


Appendix I.4: Band Edge for NB

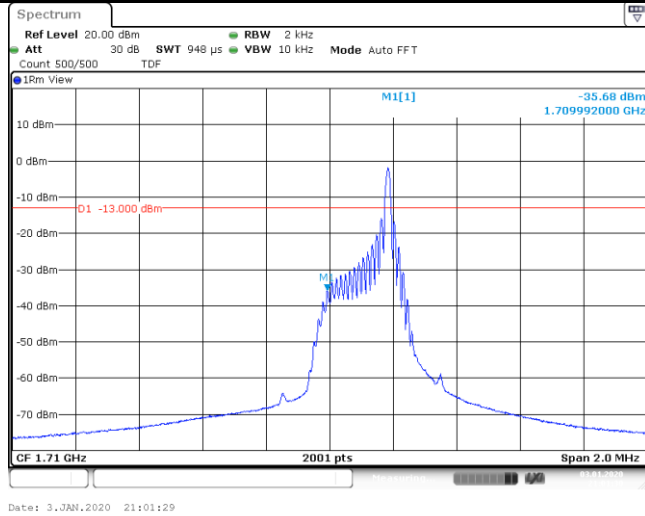
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band66	Stand-Alone	NaN	QPSK	131973	12@0	15kHz	-33.64	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@11	15kHz	-35.68	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	15kHz	-17.53	PASS
Band66	Stand-Alone	NaN	QPSK	132671	12@0	15kHz	-30.08	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@11	15kHz	-16.72	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	15kHz	-36.12	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@11	15kHz	-34.29	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	-15.43	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@11	15kHz	-15.61	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	-34.73	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@47	3.75kHz	-49.19	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	-27.52	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@47	3.75kHz	-27.64	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	-48.05	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@47	3.75kHz	-47.56	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	3.75kHz	-25.91	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@47	3.75kHz	-26.49	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	3.75kHz	-46.90	PASS

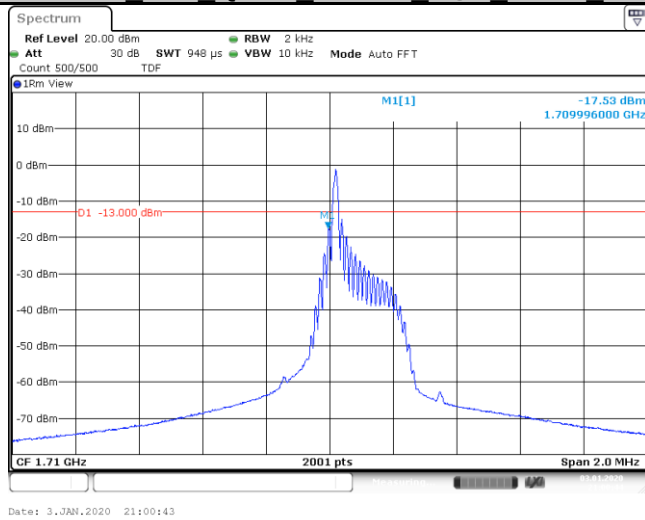
Test Graphs



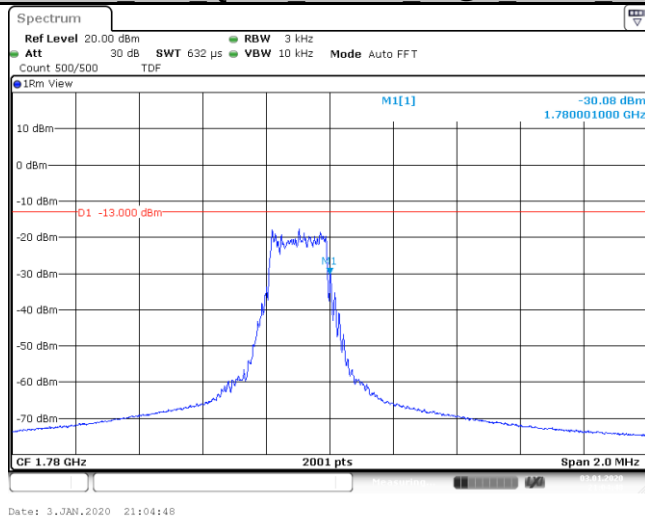
Band66 Stand-Alone NaN QPSK 131973 1@11 15kHz -35.68 PASS



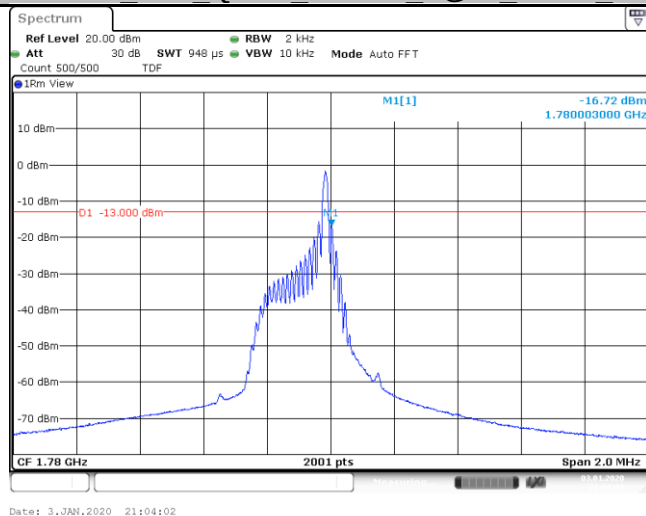
Band66 Stand-Alone NaN QPSK 131973 1@0 15kHz -17.53 PASS



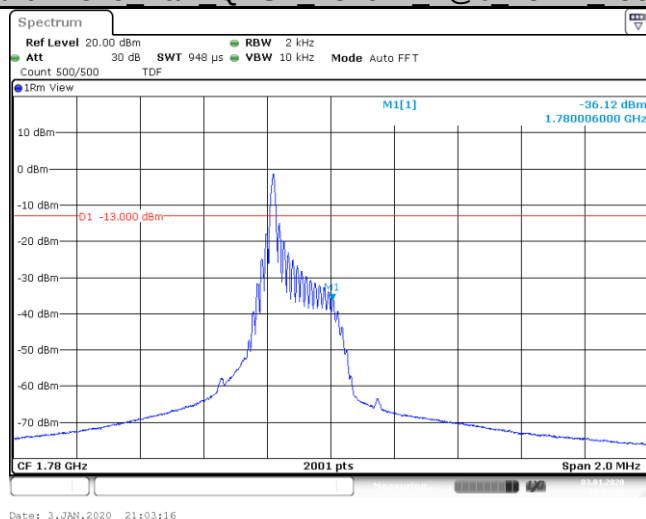
Band66 Stand-Alone NaN QPSK 132671 12@0 15kHz -30.08 PASS



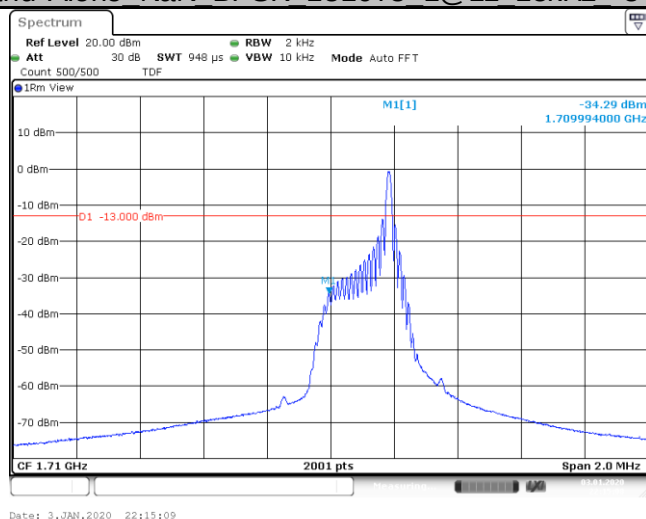
Band66 Stand-Alone NaN QPSK 132671 1@11 15kHz -16.72 PASS



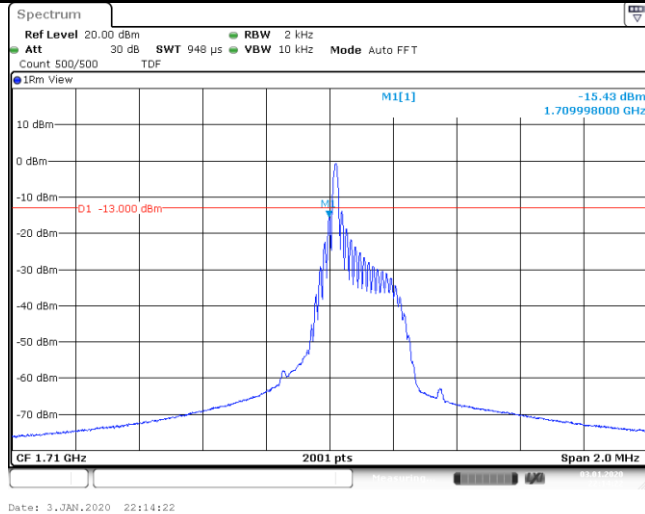
Band66 Stand-Alone NaN QPSK 132671 1@0 15kHz -36.12 PASS



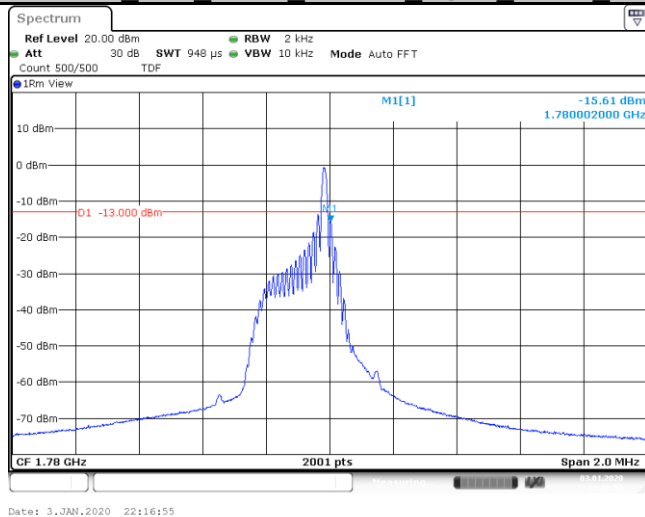
Band66 Stand-Alone NaN BPSK 131973 1@11 15kHz -34.29 PASS



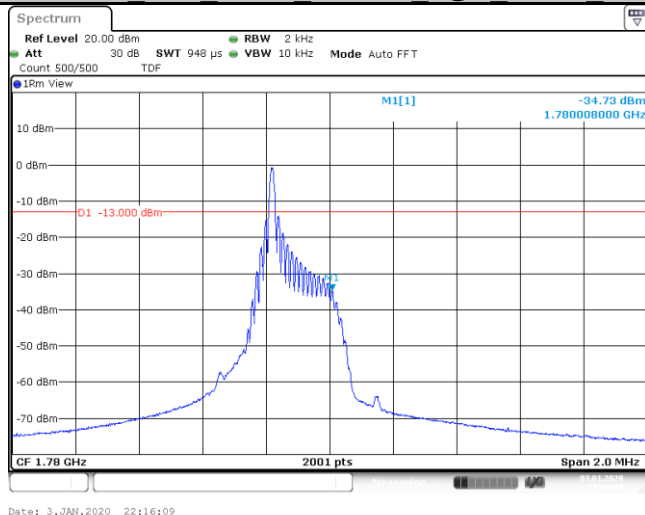
Band66 Stand-Alone NaN BPSK 131973 1@0 15kHz -15.43 PASS



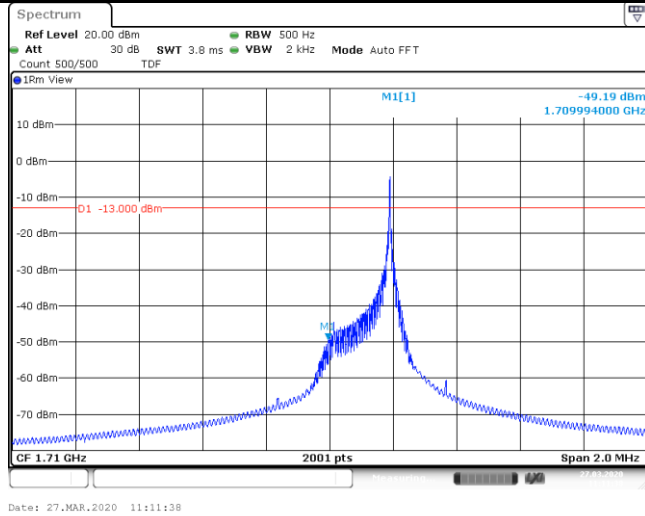
Band66 Stand-Alone NaN BPSK 132671 1@11 15kHz -15.61 PASS



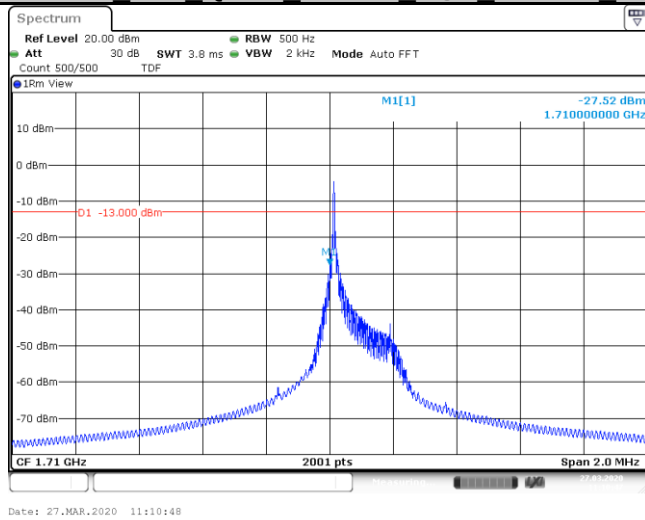
Band66 Stand-Alone NaN BPSK 132671 1@0 15kHz -34.73 PASS



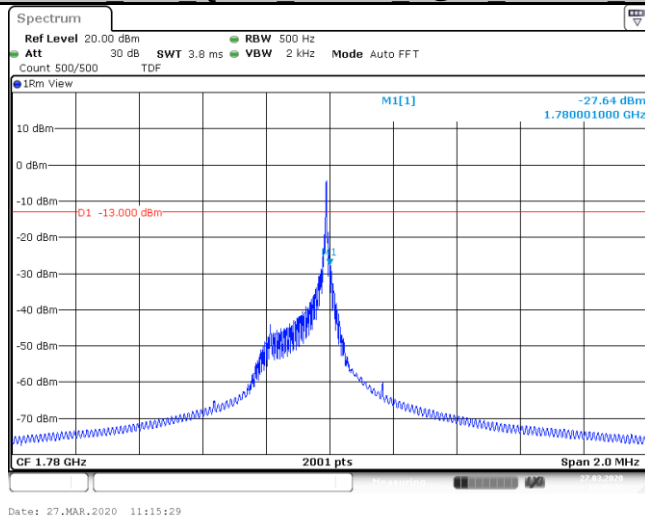
Band66 Stand-Alone NaN QPSK 131973 1@47 3.75kHz -49.19 PASS



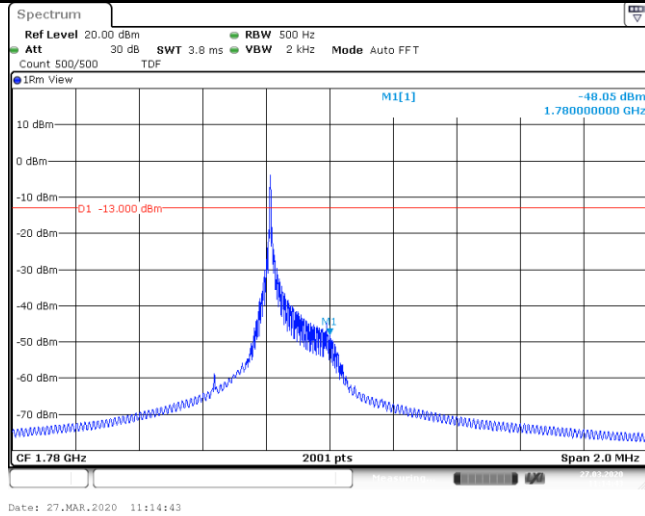
Band66 Stand-Alone NaN QPSK 131973 1@0 3.75kHz -27.52 PASS



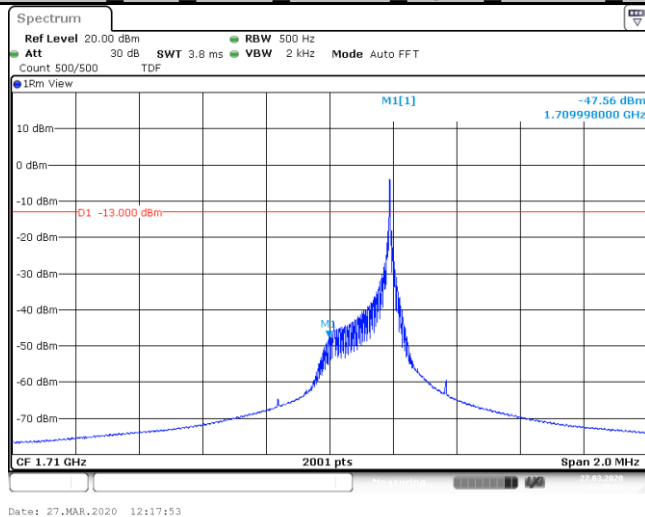
Band66 Stand-Alone NaN QPSK 132671 1@47 3.75kHz -27.64 PASS



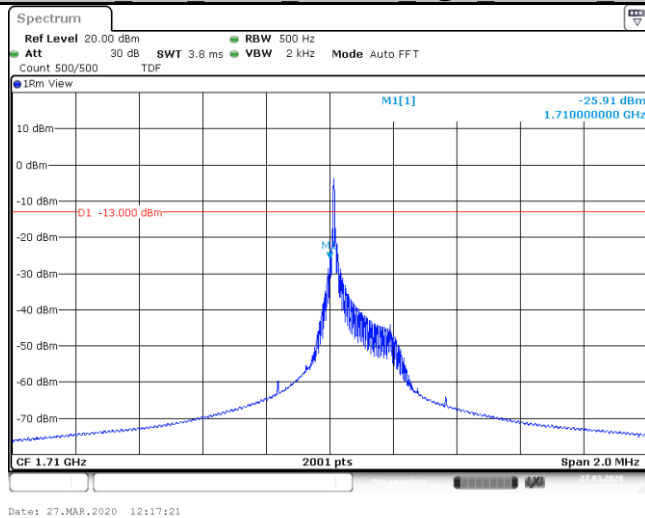
Band66 Stand-Alone NaN QPSK 132671 1@0 3.75kHz -48.05 PASS



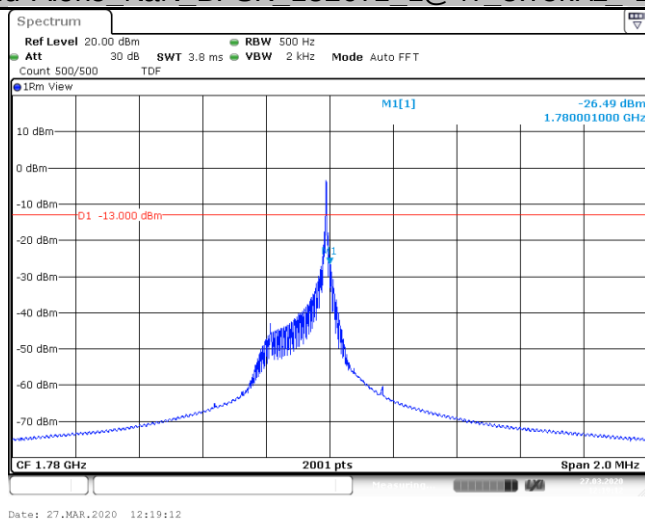
Band66 Stand-Alone NaN BPSK 131973 1@47 3.75kHz -47.56 PASS



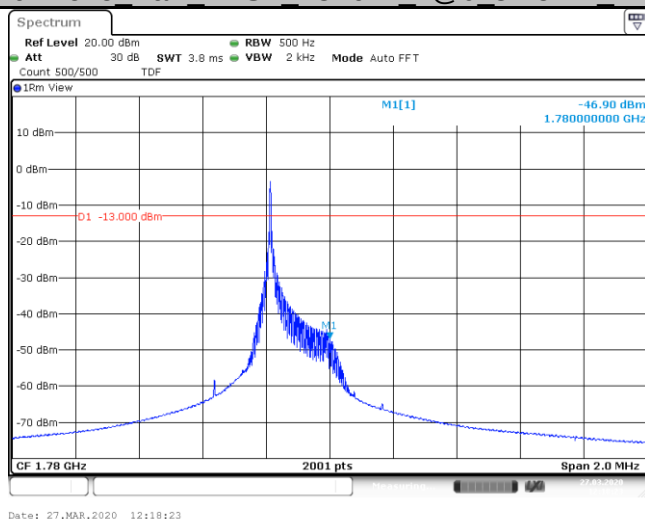
Band66 Stand-Alone NaN BPSK 131973 1@0 3.75kHz -25.91 PASS



Band66 Stand-Alone NaN BPSK 132671 1@47 3.75kHz -26.49 PASS



Band66 Stand-Alone NaN BPSK 132671 1@0 3.75kHz -46.90 PASS



Appendix I.5: Conducted Spurious Emission for NB

Test Result

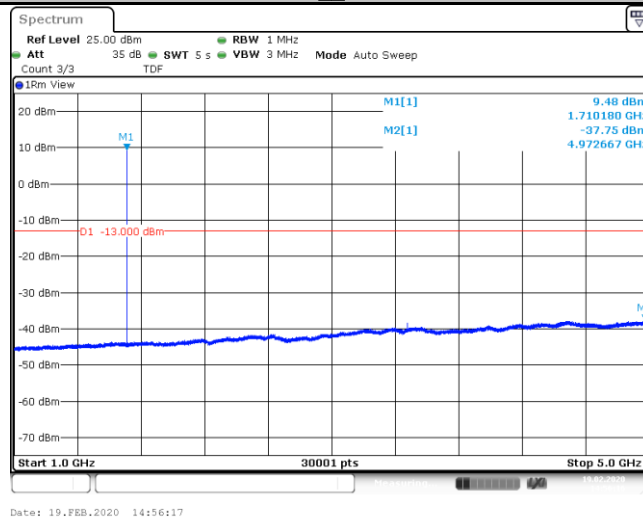
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	NaN	QPSK	131973	12@0	15kHz	1000	5000	1000~5000MHz@-37.75dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	12@0	15kHz	5000	12000	5000~12000MHz@-47.37dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	12@0	15kHz	12000	26500	12000~26500MHz@-41.21dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	12@0	15kHz	30	1000	30~1000MHz@-35.9dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	12@0	15kHz	30	1000	30~1000MHz@-34.93dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	12@0	15kHz	1000	5000	1000~5000MHz@-37.8dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	12@0	15kHz	5000	12000	5000~12000MHz@-47.32dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	12@0	15kHz	12000	26500	12000~26500MHz@-41.31dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	12@0	15kHz	30	1000	30~1000MHz@-35.74dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	12@0	15kHz	12000	26500	12000~26500MHz@-41.38dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	12@0	15kHz	1000	5000	1000~5000MHz@-37.9dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	12@0	15kHz	5000	12000	5000~12000MHz@-47.37dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@11	15kHz	1000	5000	1000~5000MHz@-37.66dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	30	1000	30~1000MHz@-34.54dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	1000	5000	1000~5000MHz@-37.74dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	5000	12000	5000~12000MHz@-47.31dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@0	15kHz	12000	26500	12000~26500MHz@-41.43dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@11	15kHz	5000	12000	5000~12000MHz@-47.36dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@11	15kHz	12000	26500	12000~26500MHz@-41.35dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	131973	1@11	15kHz	30	1000	30~1000MHz@-35.29dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@11	15kHz	5000	12000	5000~12000MHz@-47.25dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@11	15kHz	12000	26500	12000~26500MHz@-41.28dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@11	15kHz	1000	5000	1000~5000MHz@-37.89dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@11	15kHz	30	1000	30~1000MHz@-35.16dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	12000	26500	12000~26500MHz@-41.33dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	5000	12000	5000~12000MHz@-47.35dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	1000	5000	1000~5000MHz@-37.59dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132322	1@0	15kHz	30	1000	30~1000MHz@-35.49dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@11	15kHz	12000	26500	12000~26500MHz@-41.21dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	1000	5000	1000~5000MHz@-37.68dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	5000	12000	5000~12000MHz@-47.41dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	12000	26500	12000~26500MHz@-41.48dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@11	15kHz	30	1000	30~1000MHz@-35.42dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@11	15kHz	1000	5000	1000~5000MHz@-37.73dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@11	15kHz	5000	12000	5000~12000MHz@-47.29dBm	-13	PASS
Band66	Stand-Alone	NaN	BPSK	132671	1@0	15kHz	30	1000	30~1000MHz@-35.66dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.44dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.82dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.78dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.49dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@47	3.75kHz	30	1000	30~1000MHz@-35.51dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.69dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@0	3.75kHz	30	1000	30~1000MHz@-35.23dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	131973	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.74dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.37dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.9dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.71dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.47dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@47	3.75kHz	30	1000	30~1000MHz@-35.32dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.6dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.73dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132671	1@0	3.75kHz	30	1000	30~1000MHz@-35.06dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.81dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	5000	12000	5000~12000MHz@-46.02dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.26dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.53dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	30	1000	30~1000MHz@-35.49dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.65dBm	-13	PASS

Produkte
Products

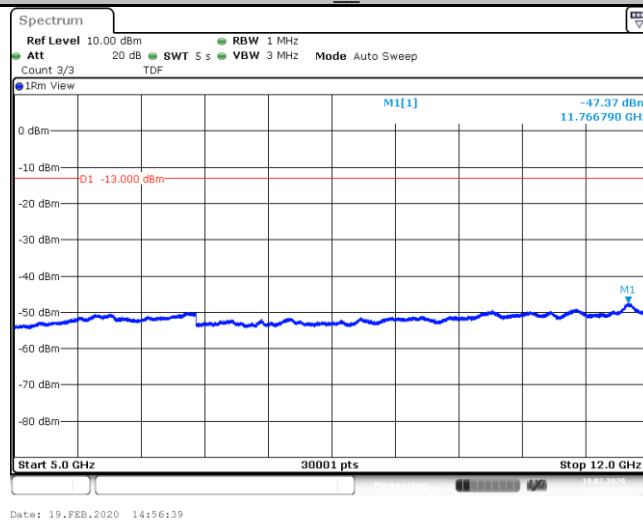
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	5000	12000	5000~12000MHz@-45.98dBm	-13	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	30	1000	30~1000MHz@-35.03dBm	-13	PASS

Test Graphs

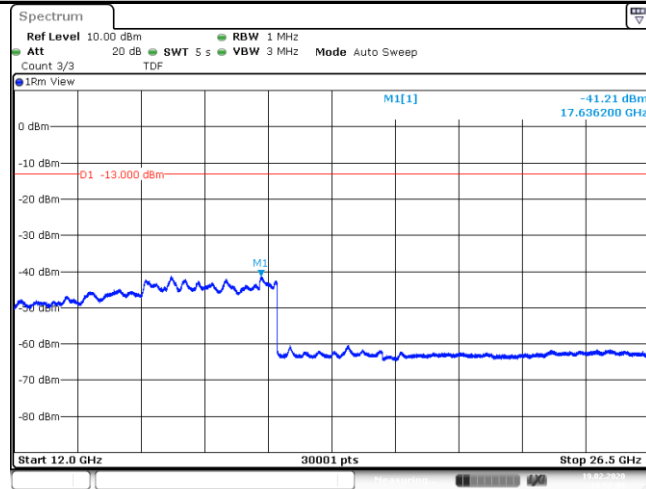
Band66_Stand-Alone_NaN_QPSK_131973_12@0_15kHz_1000_5000_1000~5000MHz@-37.75dBm_-13_PASS



Band66_Stand-Alone_NaN_QPSK_131973_12@0_15kHz_5000_12000_5000~12000MHz@-47.37dBm_-13_PASS

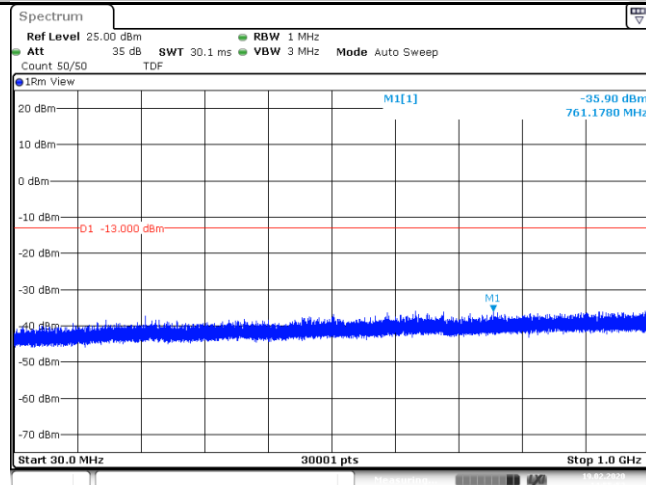


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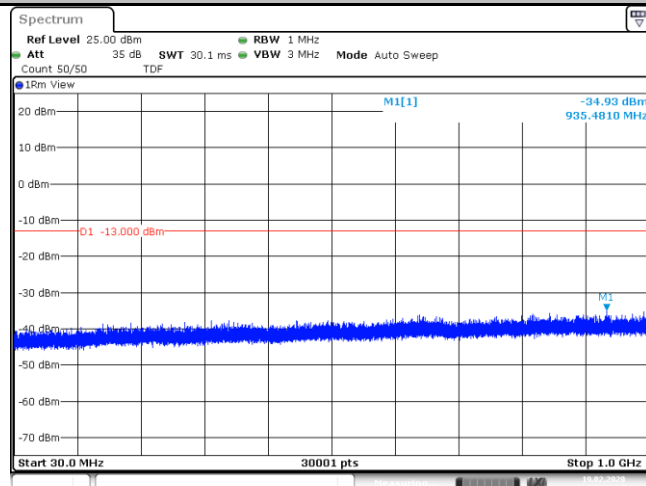
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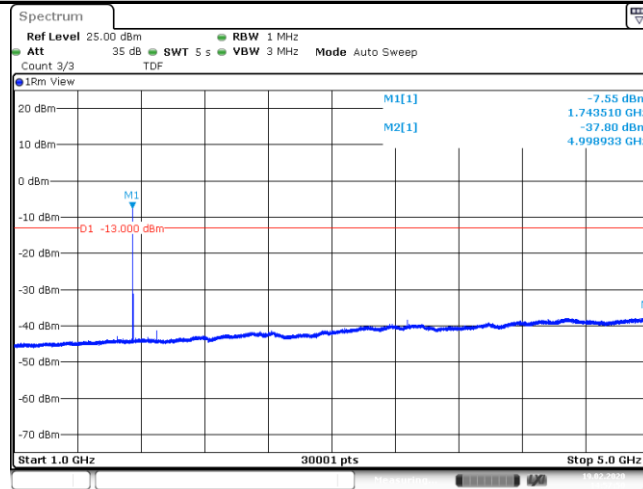
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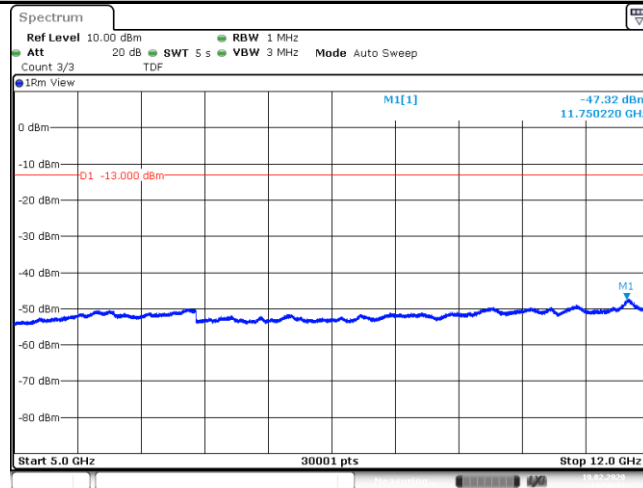
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Band66_Stand-Alone_NaN_QPSK_132322_12@0_15kHz_1000_5000_1000~5000MHz@-37.8dBm_-13_PASS_



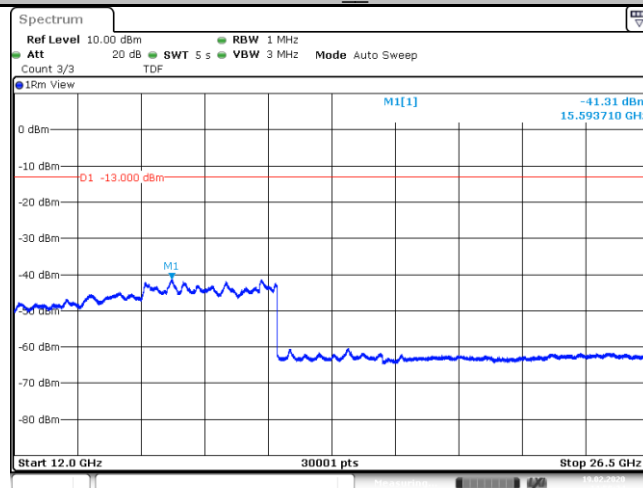
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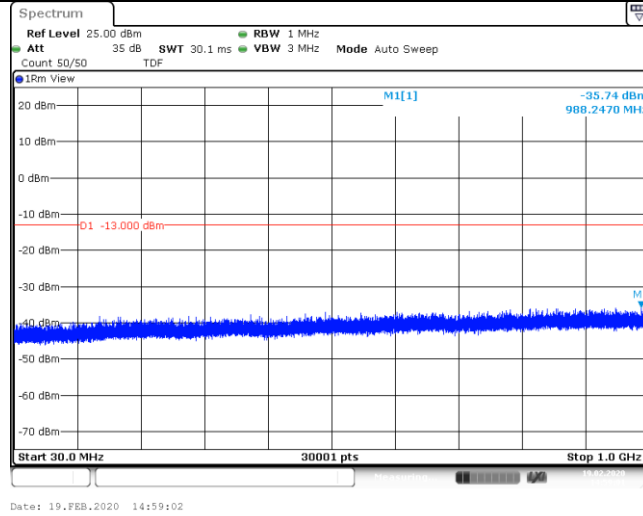
Date: 19.FEB.2020 14:58:13

Band66_Stand-Alone_NaN_QPSK_132322_12@0_15kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_P
ASS_

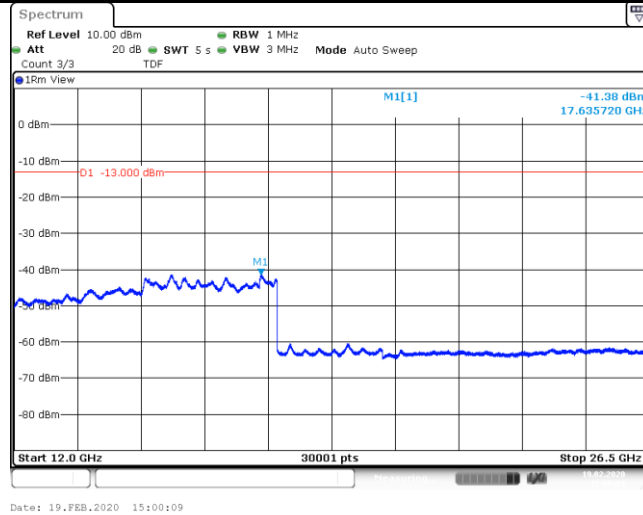


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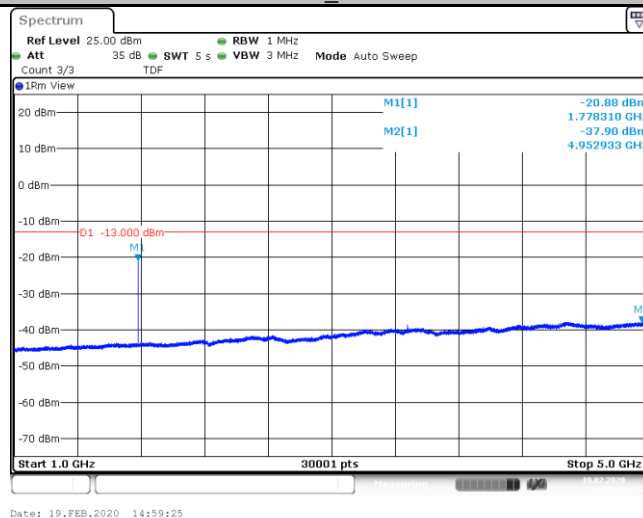
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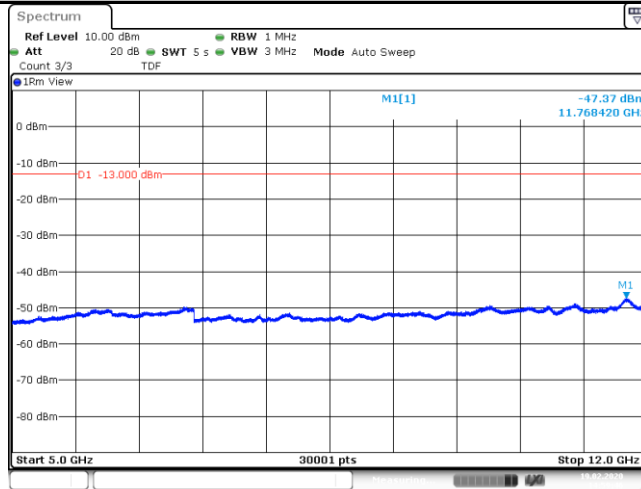
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Band66_Stand-Alone_NaN_QPSK_132671_12@0_15kHz_1000_5000_1000~5000MHz@-37.9dBm_-13_PASS_

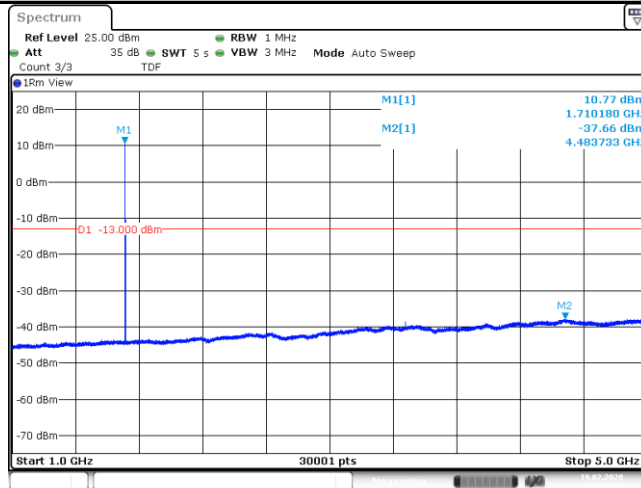


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SS



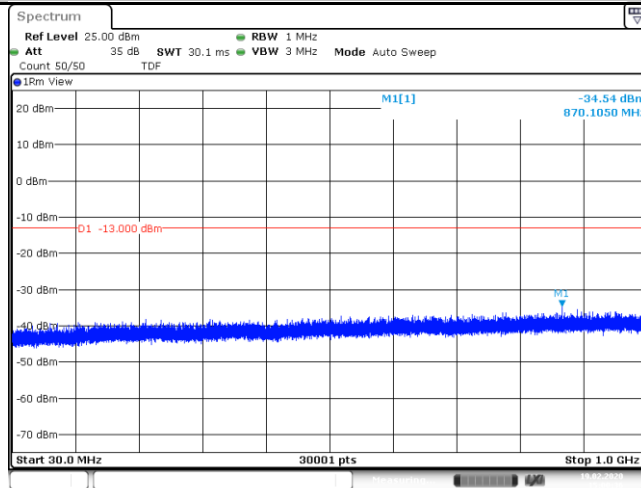
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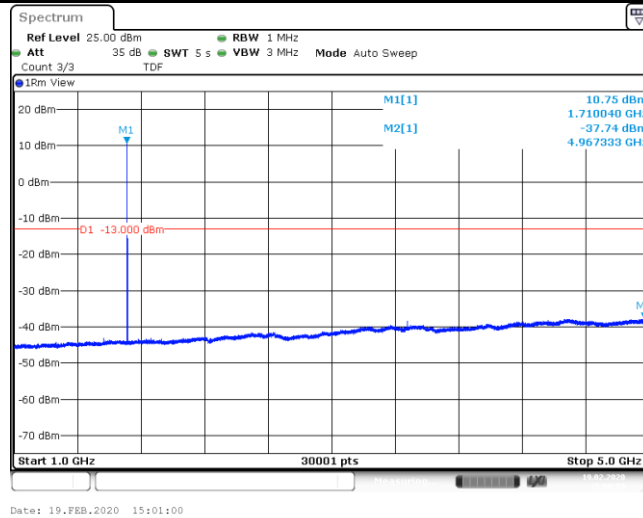
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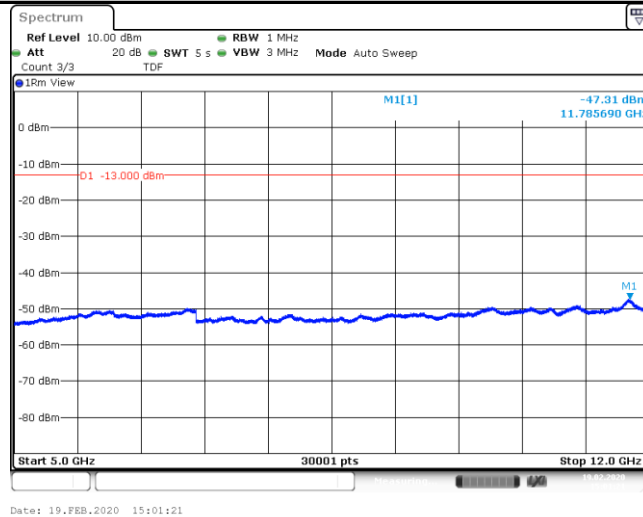


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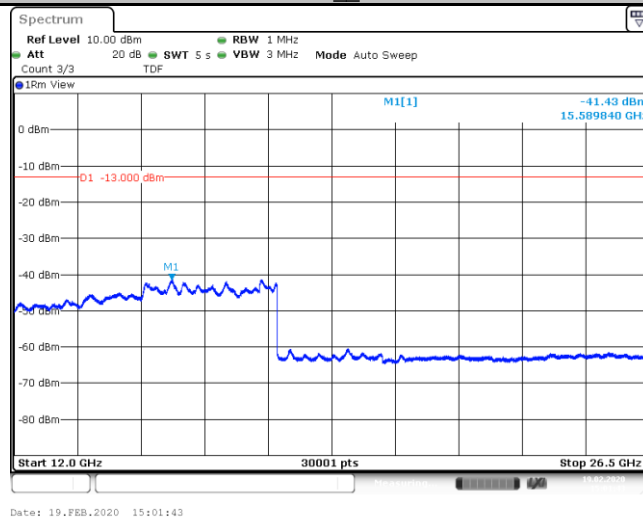
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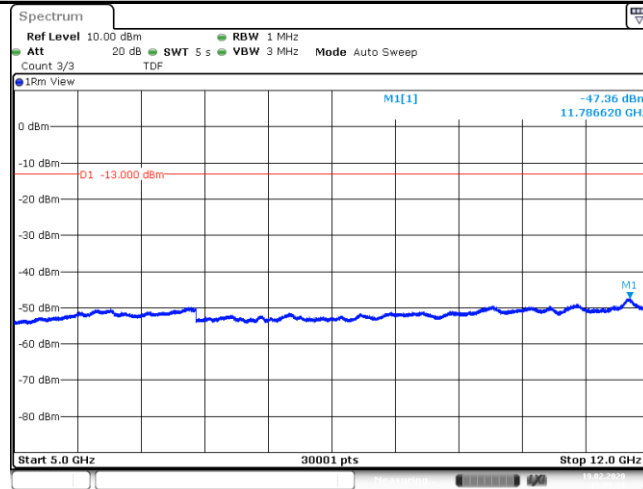
Band66_Stand-Alone_NaN_BPSK_131973_1@0_15kHz_5000_12000_5000~12000MHz@-47.31dBm_-13_PASS_



Band66_Stand-Alone_NaN_BPSK_131973_1@0_15kHz_12000_26500_12000~26500MHz@-41.43dBm_-13_PASS_

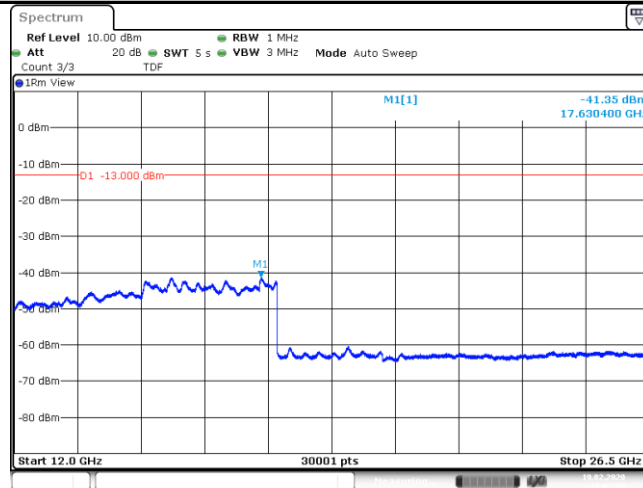


Band66_Stand-Alone_NaN_BPSK_131973_1@11_15kHz_5000_12000_5000~12000MHz@-47.36dBm_-13_PA
SS



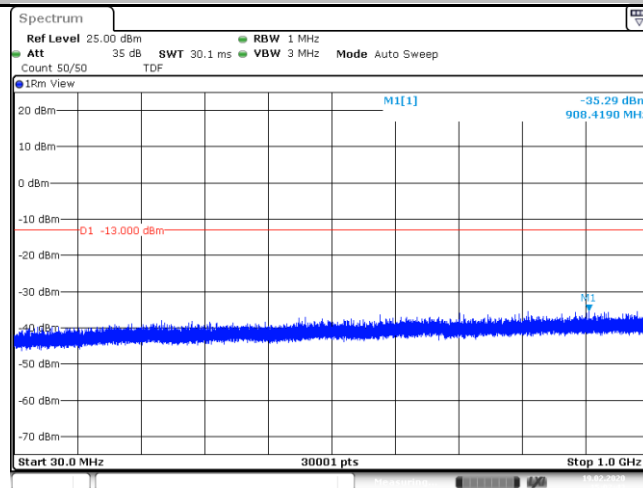
Date: 19.FEB.2020 15:03:28

Band66_Stand-Alone_NaN_BPSK_131973_1@11_15kHz_12000_26500_12000~26500MHz@-41.35dBm_-13_P
ASS



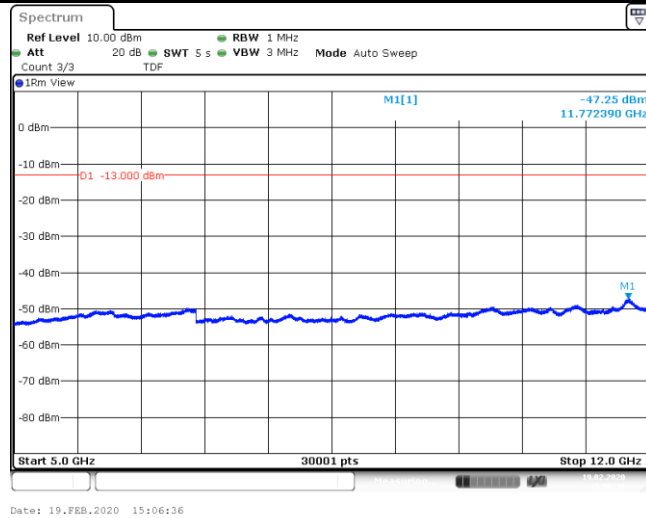
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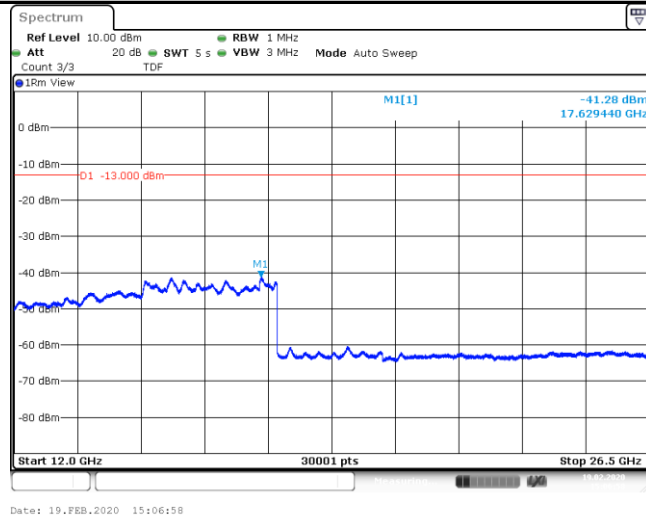


Date: 19.FEB.2020 15:02:44

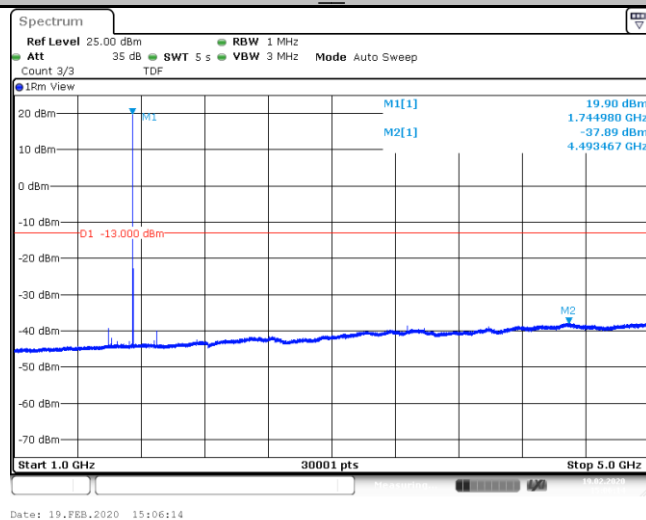
Band66_Stand-Alone_NaN_BPSK_132322_1@11_15kHz_5000_12000_5000~12000MHz@-47.25dBm_-13_PA
SS



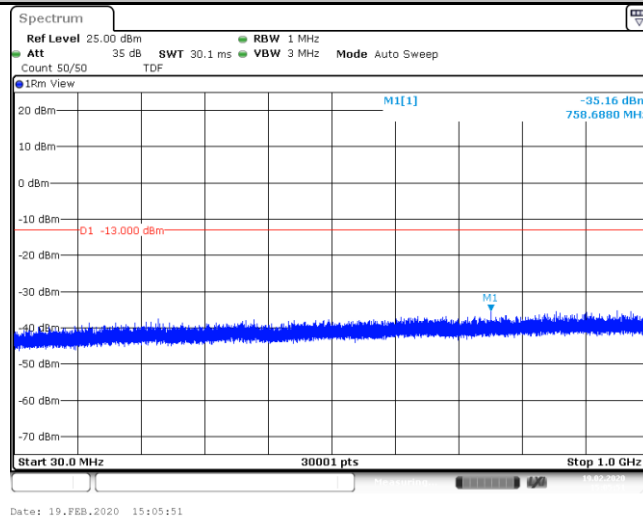
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ASS



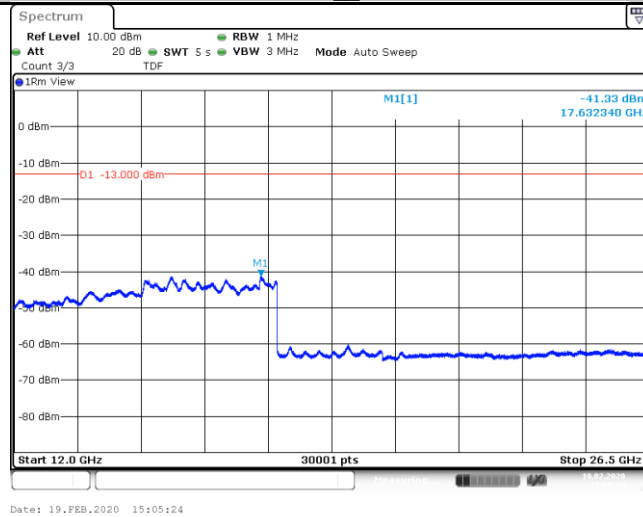
Band66_Stand-Alone_NaN_BPSK_132322_1@11_15kHz_1000_5000_1000~5000MHz@-37.89dBm_-13_PASS



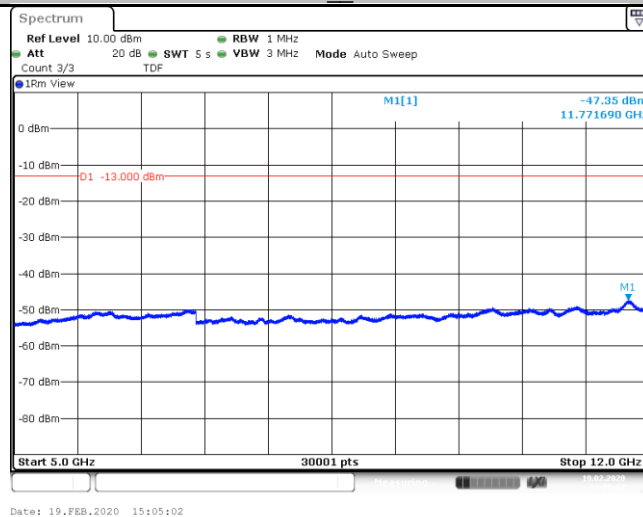
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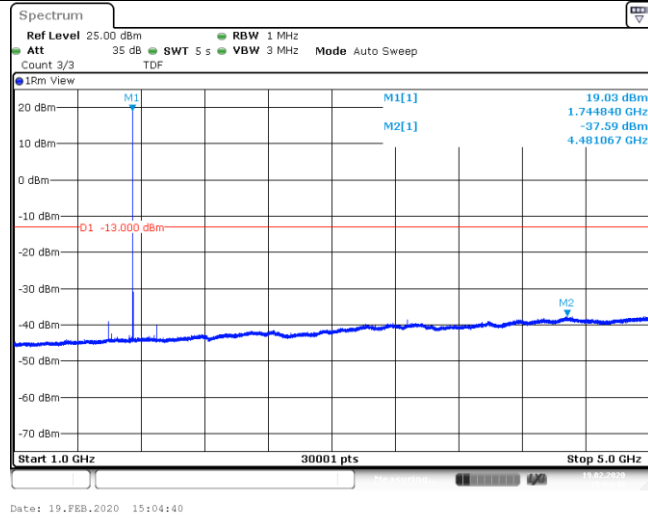
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SS__



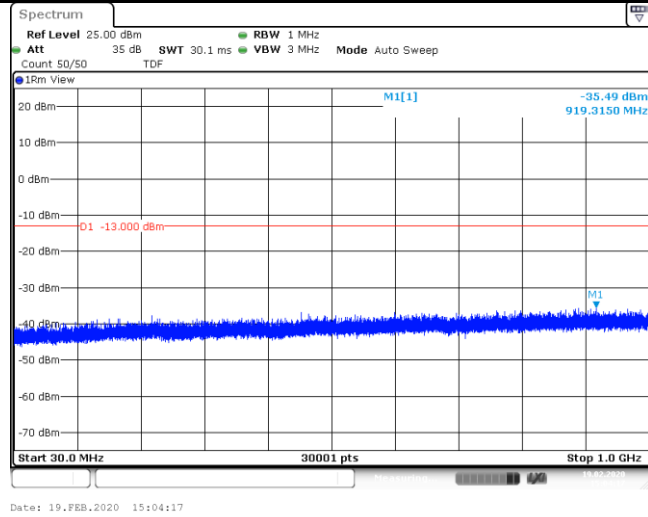
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S__



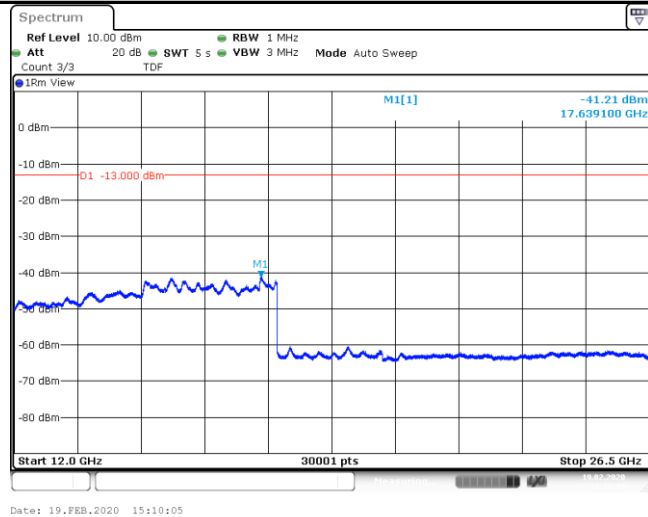
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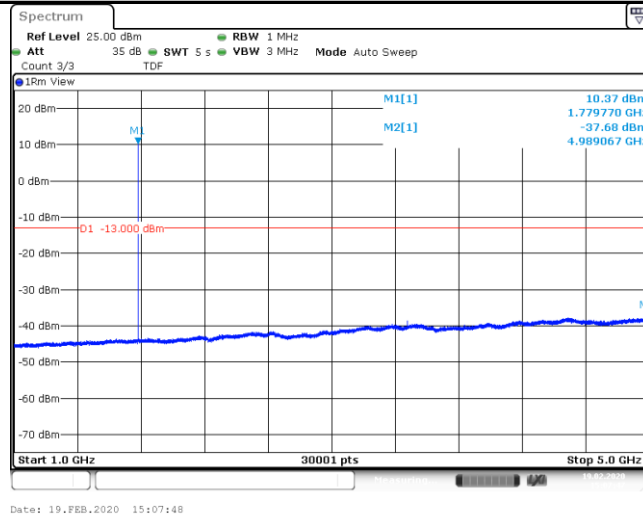
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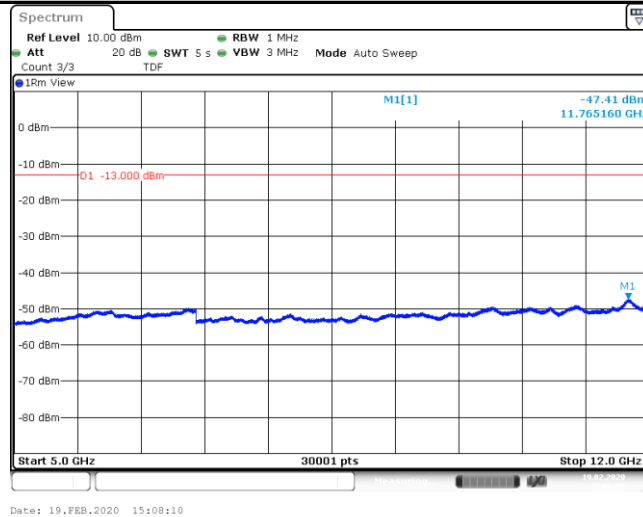
Band66_Stand-Alone_NaN_BPSK_132671_1@11_15kHz_12000_26500_12000~26500MHz@-41.21dBm_-13_PASS_



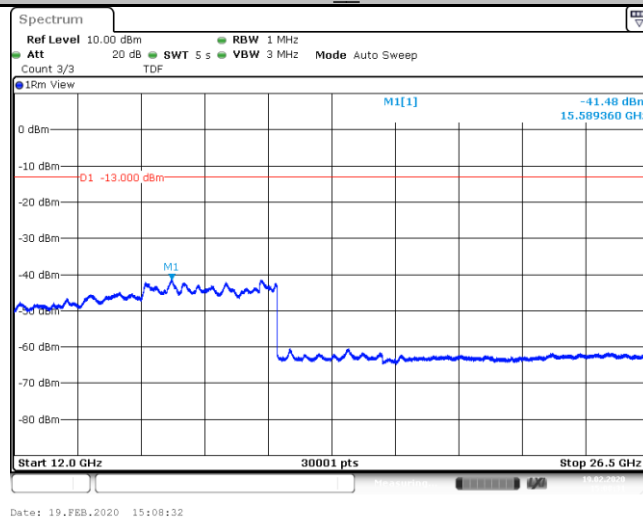
Band66_Stand-Alone_NaN_BPSK_132671_1@0_15kHz_1000_5000_1000~5000MHz@-37.68dBm_-13_PASS_



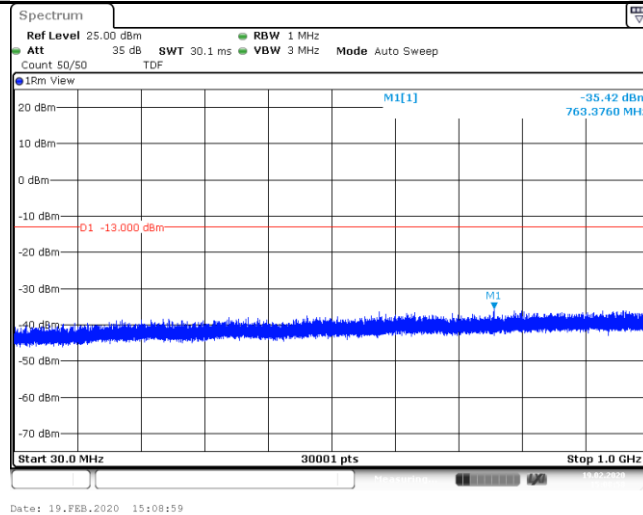
Band66_Stand-Alone_NaN_BPSK_132671_1@0_15kHz_5000_12000_5000~12000MHz@-47.41dBm_-13_PAS
S_



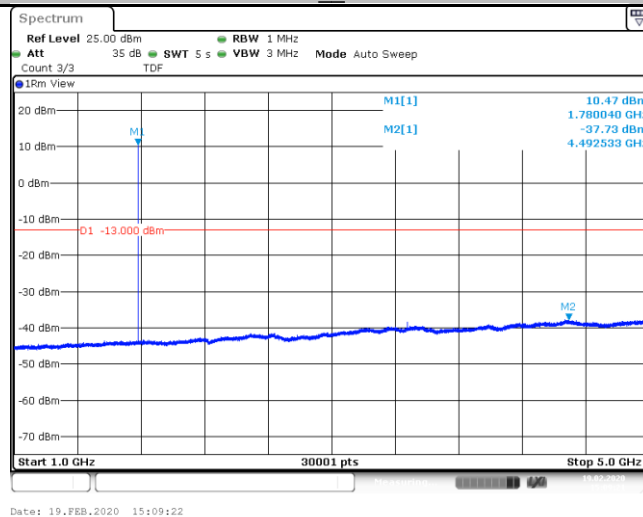
Band66_Stand-Alone_NaN_BPSK_132671_1@0_15kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PA
SS_



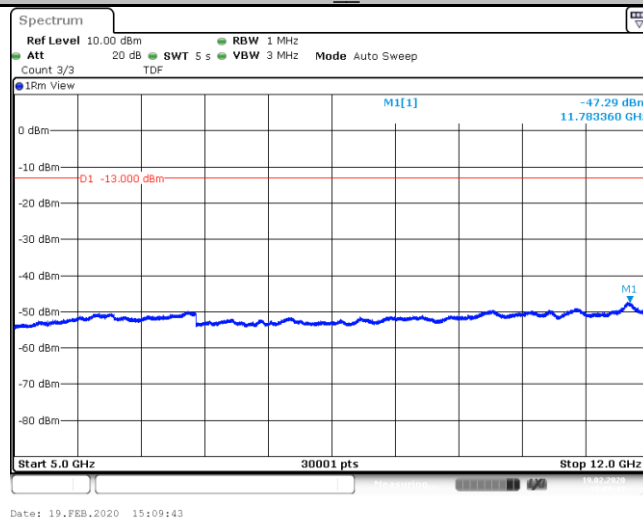
Band66_Stand-Alone_NaN_BPSK_132671_1@11_15kHz_30_1000_30~1000MHz@-35.42dBm_-13_PASS_



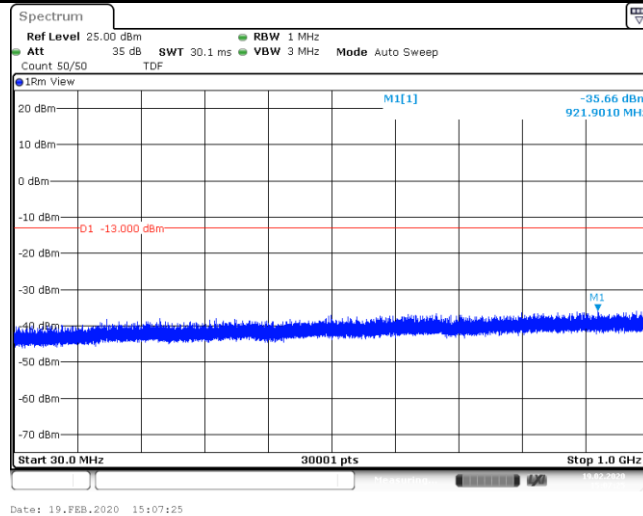
Band66_Stand-Alone_NaN_BPSK_132671_1@11_15kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS



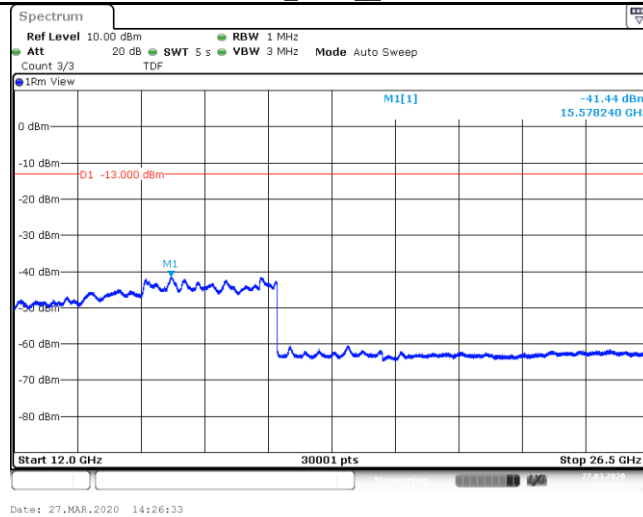
Band66_Stand-Alone_NaN_BPSK_132671_1@11_15kHz_5000_12000_5000~12000MHz@-47.29dBm_-13_PA
SS_



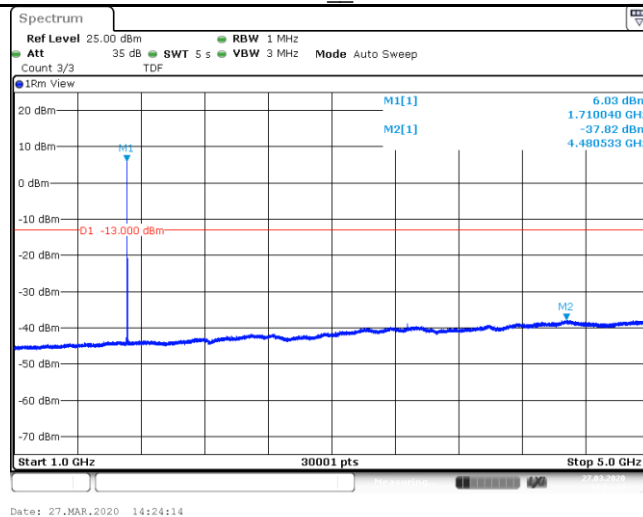
Band66_Stand-Alone_NaN_BPSK_132671_1@0_15kHz_30_1000_30~1000MHz@-35.66dBm_-13_PASS__



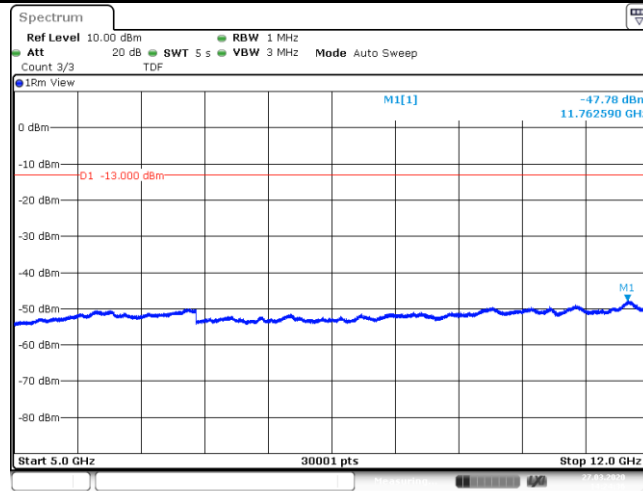
Band66_Stand-Alone_NaN_QPSK_131973_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.44dBm_-13_PASS__



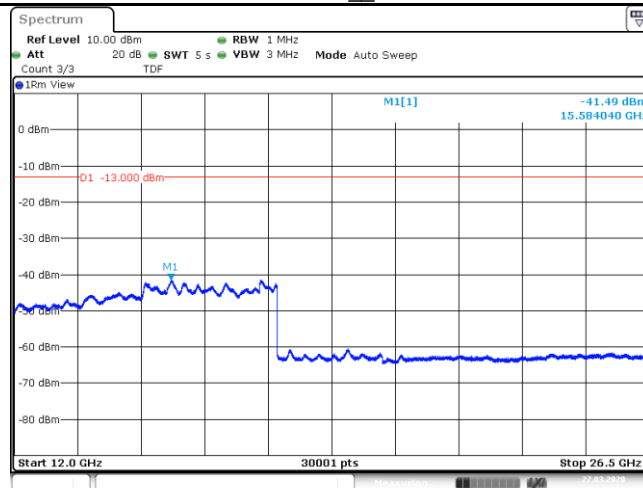
Band66_Stand-Alone_NaN_QPSK_131973_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.82dBm_-13_PAS S__



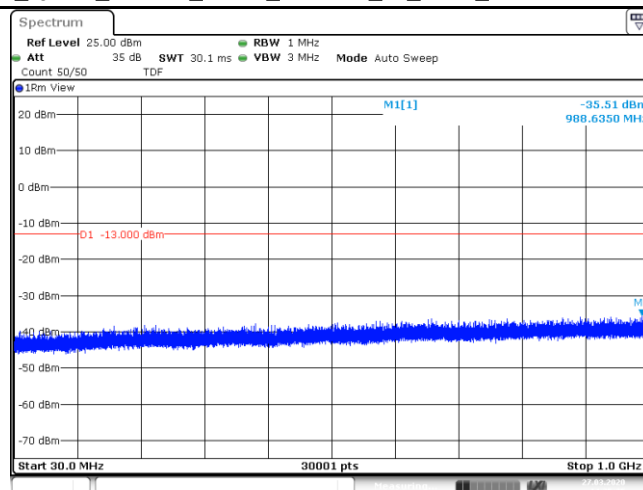
Band66_Stand-Alone_NaN_QPSK_131973_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.78dBm_-13_PA
SS



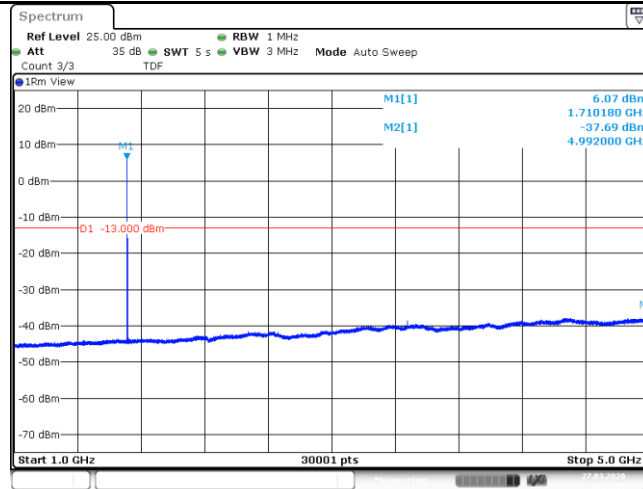
Band66_Stand-Alone_NaN_QPSK_131973_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.49dBm_-13_PASS



Band66_Stand-Alone_NaN_QPSK_131973_1@47_3.75kHz_30_1000_30~1000MHz@-35.51dBm_-13_PASS

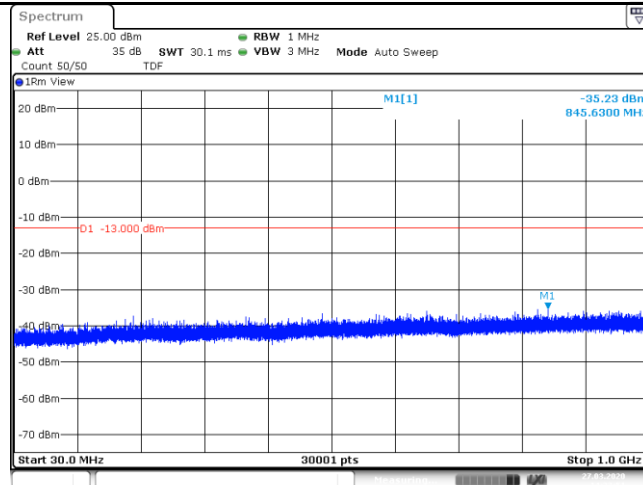


Band66_Stand-Alone_NaN_QPSK_131973_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.69dBm_-13_PAS S



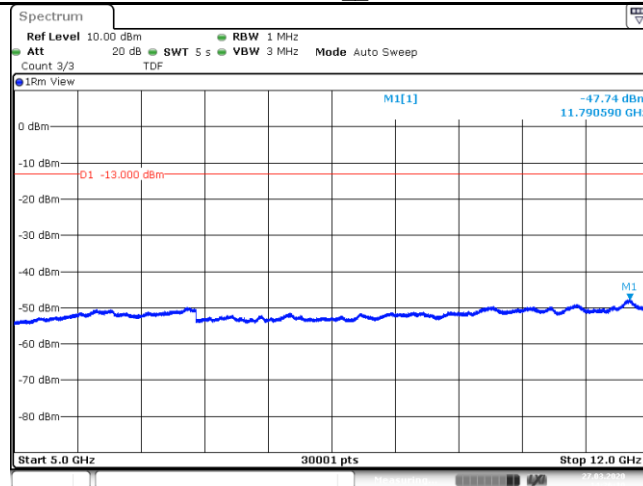
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Band66_Stand-Alone_NaN_QPSK_131973_1@0_3.75kHz_30_1000_30~1000MHz@-35.23dBm_-13_PASS__



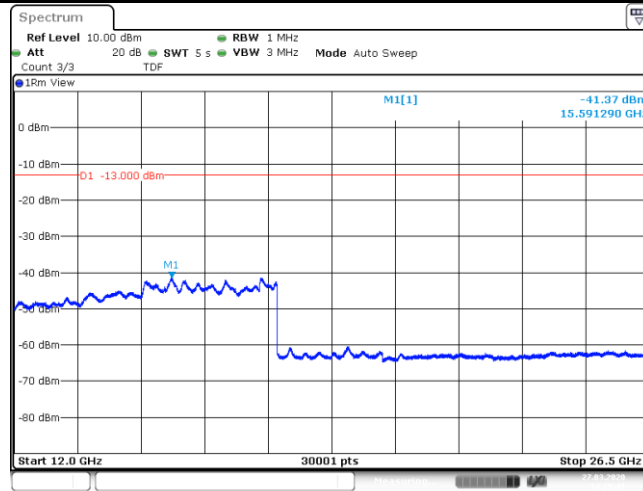
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Band66_Stand-Alone_NaN_QPSK_131973_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.74dBm_-13_PASS



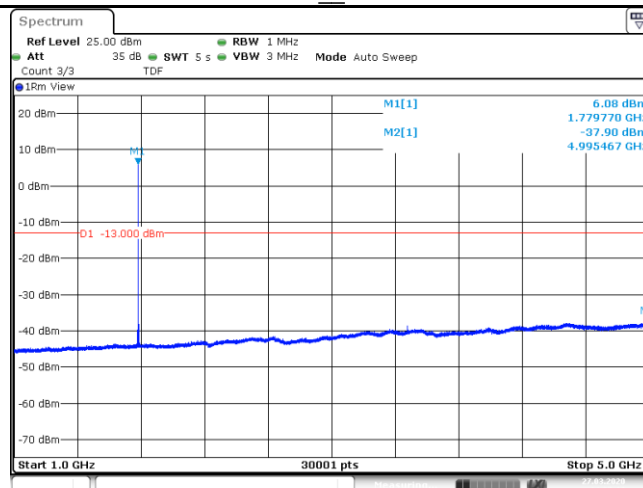
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Band66_Stand-Alone_NaN_QPSK_132671_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.37dBm_-13_PASS



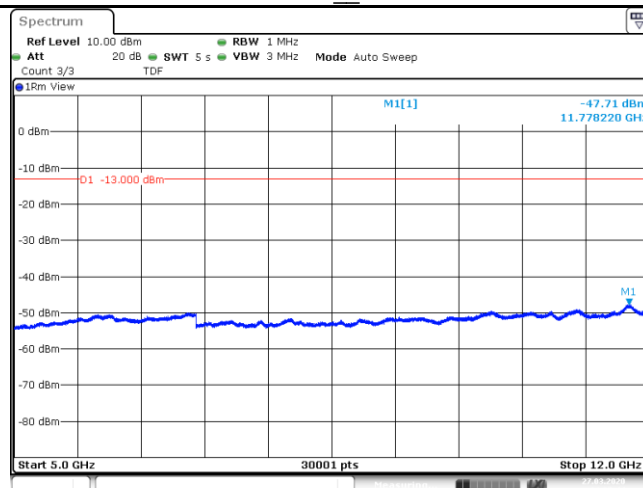
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Band66_Stand-Alone_NaN_QPSK_132671_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.9dBm_-13_PASS



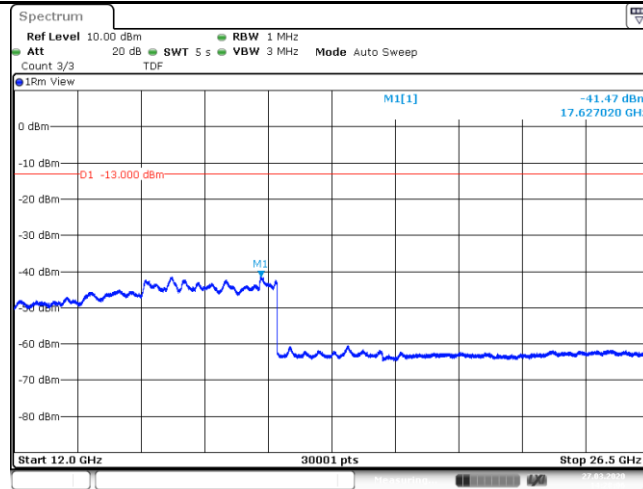
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Band66_Stand-Alone_NaN_QPSK_132671_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.71dBm_-13_PASS



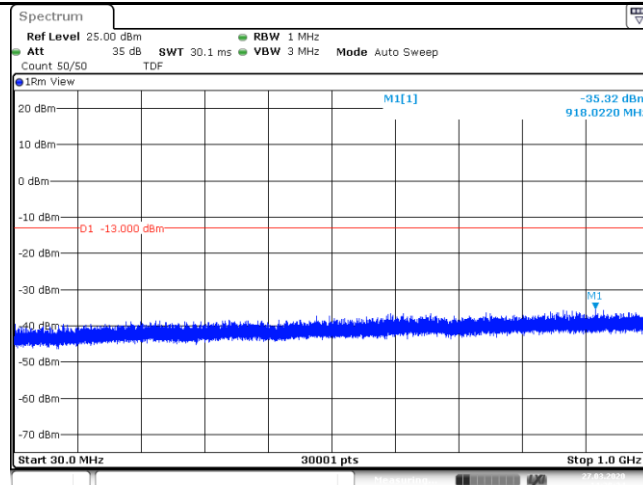
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Band66_Stand-Alone_NaN_QPSK_132671_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.47dBm_-13_PASS



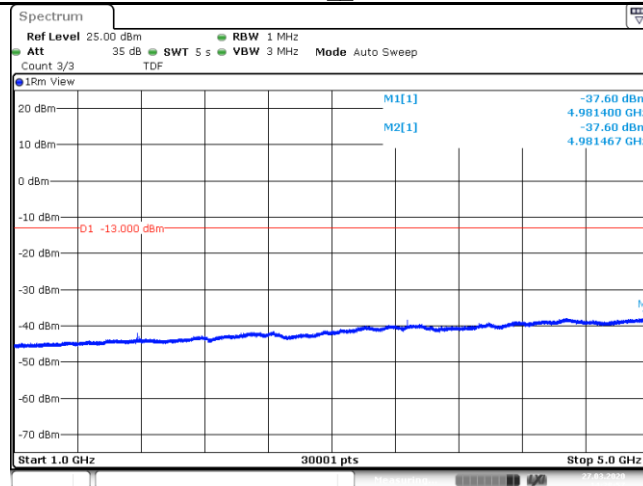
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Band66_Stand-Alone_NaN_QPSK_132671_1@47_3.75kHz_30_1000_30~1000MHz@-35.32dBm_-13_PASS



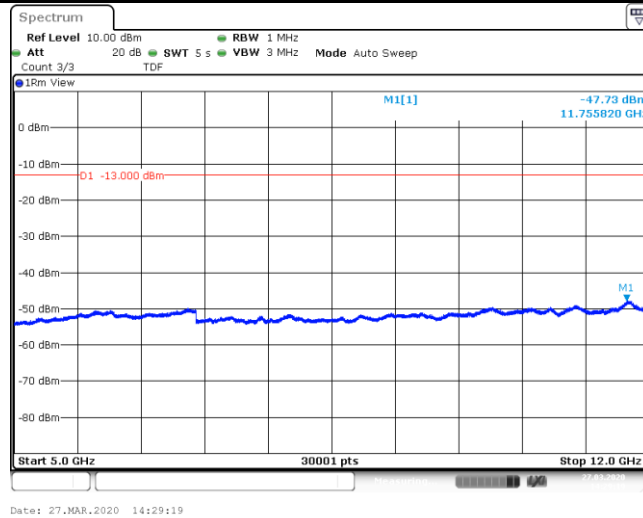
Date: 27.MAR.2020 14:28:35

Band66_Stand-Alone_NaN_QPSK_132671_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.6dBm_-13_PAS S

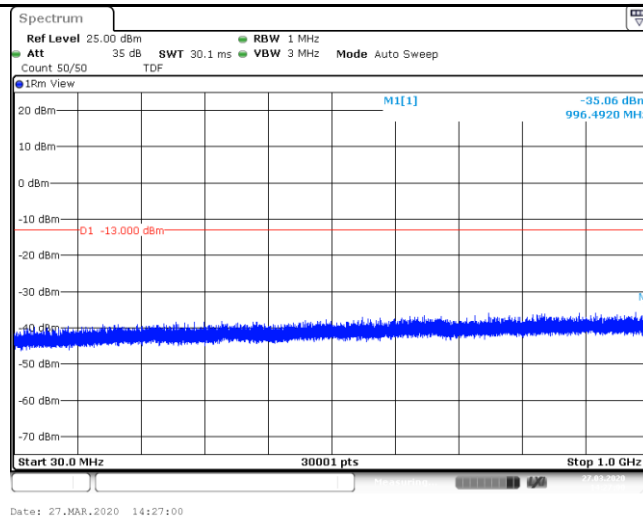


Date: 27.MAR.2020 14:28:57

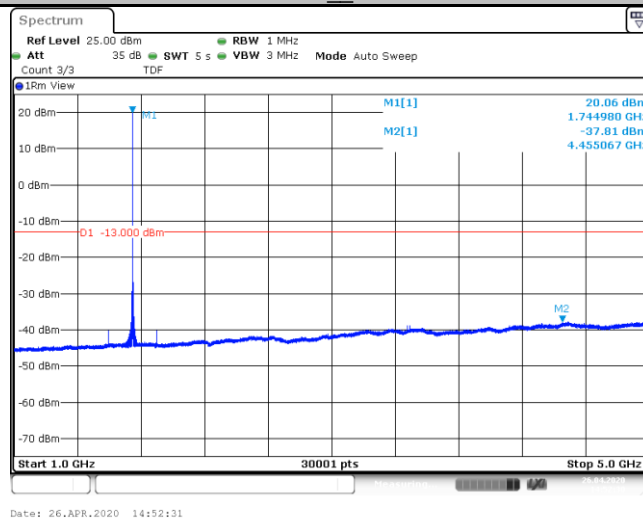
Band66_Stand-Alone_NaN_QPSK_132671_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.73dBm_-13_P ASS



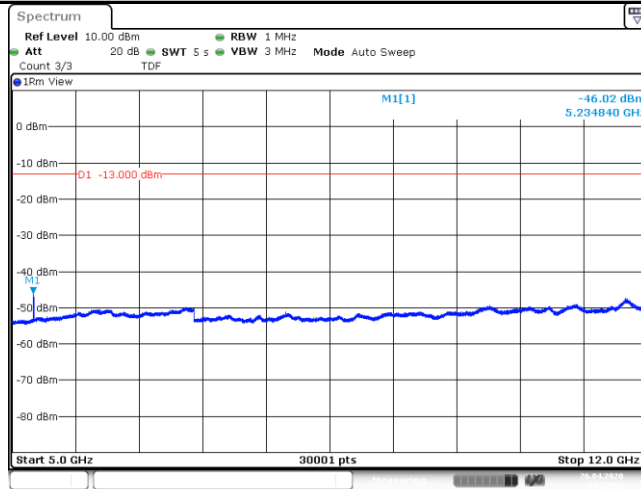
Band66_Stand-Alone_NaN_QPSK_132671_1@0_3.75kHz_30_1000_30~1000MHz@-35.06dBm_-13_P ASS



Band66_Stand-Alone_NaN_QPSK_132322_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.81dBm_-13_P ASS

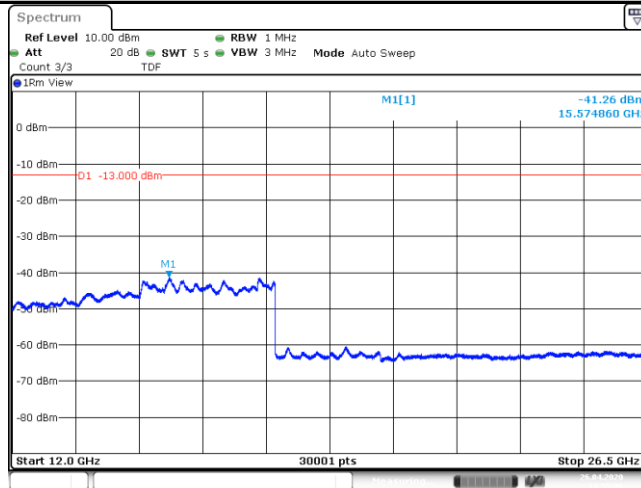


Band66_Stand-Alone_NaN_QPSK_132322_1@0_3.75kHz_5000_12000_5000~12000MHz@-46.02dBm_-13_PA
SS



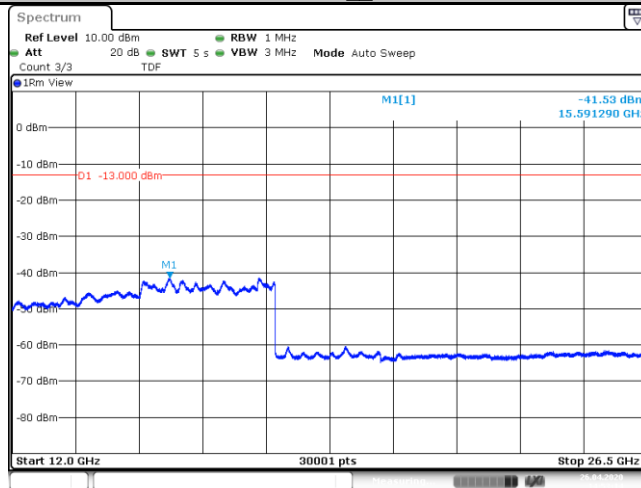
Date: 26.APR.2020 14:52:53

Band66_Stand-Alone_NaN_QPSK_132322_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.26dBm_-13
PASS



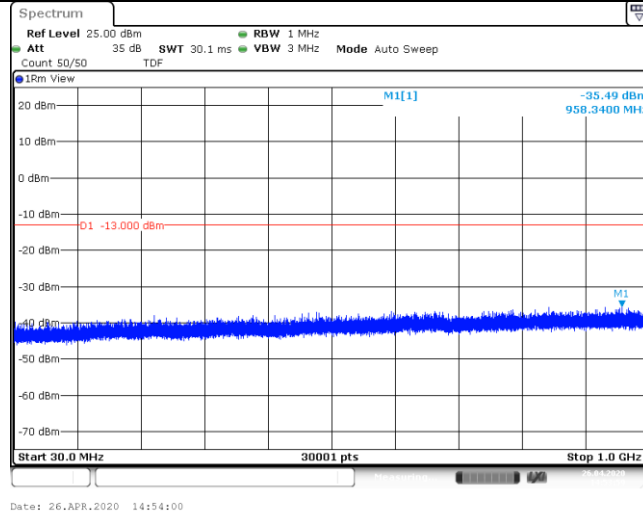
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Band66_Stand-Alone_NaN_QPSK_132322_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.53dBm_-13
PASS

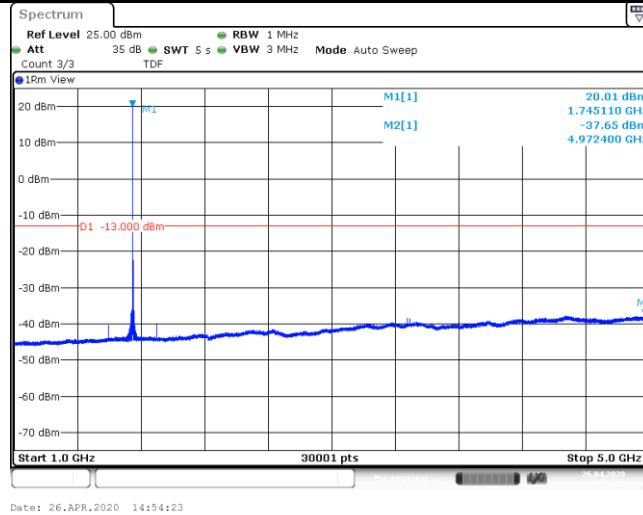


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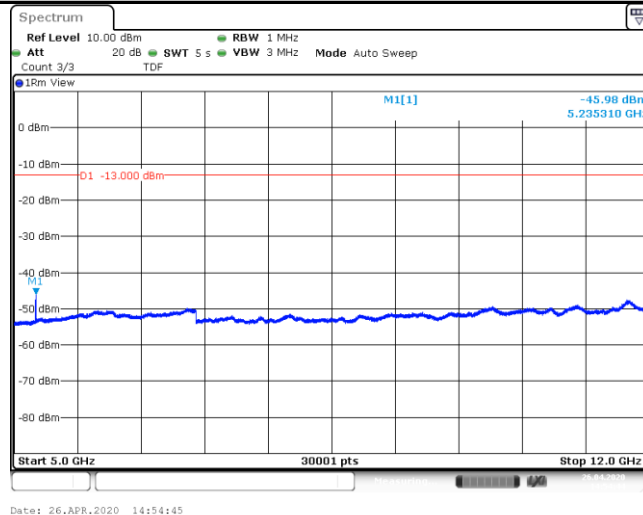
Band66_Stand-Alone_NaN_QPSK_132322_1@47_3.75kHz_30_1000_30~1000MHz@-35.49dBm_-13_PASS__



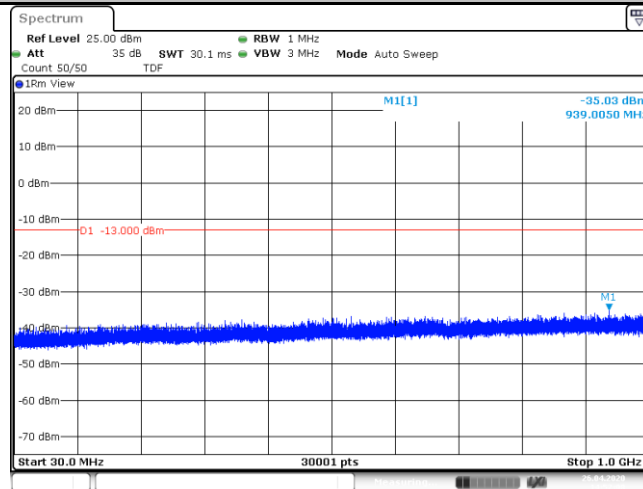
Band66_Stand-Alone_NaN_QPSK_132322_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.65dBm_-13_PAS
S__



Band66_Stand-Alone_NaN_QPSK_132322_1@47_3.75kHz_5000_12000_5000~12000MHz@-45.98dBm_-13_P
ASS__



Band66_Stand-Alone_NaN_QPSK_132322_1@0_3.75kHz_30_1000_30~1000MHz@-35.03dBm_-13_PASS_



Date: 26.APR.2020 14:52:08

Appendix I.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
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	HV	NT	-44.03	-0.025232	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	LV	NT	-26.85	-0.015387	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	NT	-32.33	-0.018527	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	HV	NT	-29.75	-0.017049	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	LV	NT	-29.03	-0.016636	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	NT	-33.80	-0.019370	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	HV	NT	-7.05	-0.004040	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	LV	NT	-8.01	-0.004590	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	NT	-8.71	-0.004991	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	HV	NT	5.06	0.002900	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	LV	NT	7.64	0.004378	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	NT	-7.80	-0.004470	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	-40	-27.19	-0.015582	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	-30	-27.04	-0.015496	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	-20	-31.54	-0.018074	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	-10	-24.03	-0.013771	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	0	-26.75	-0.015330	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	10	-44.33	-0.025404	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	20	-25.33	-0.014516	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	30	-33.00	-0.018911	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	40	-27.44	-0.015725	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	50	-25.71	-0.014734	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	60	-20.54	-0.011771	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	70	-47.34	-0.027129	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	-40	-28.71	-0.016453	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	85	-26.66	-0.015278	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	85	-23.32	-0.013364	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	-30	-26.02	-0.014911	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	-20	-21.53	-0.012338	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	-10	-29.87	-0.017117	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	0	-30.88	-0.017696	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	10	-42.43	-0.024315	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	20	-25.42	-0.014567	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	30	-26.56	-0.015221	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	40	-32.63	-0.018699	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	50	-23.95	-0.013725	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	60	-32.00	-0.018338	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	70	-44.95	-0.025759	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@11	15kHz	NV	80	-26.59	-0.015238	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	15kHz	NV	80	-32.36	-0.018544	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	-40	-6.35	-0.003639	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	-30	-4.81	-0.002756	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	-20	6.91	0.003960	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	-10	7.37	0.004223	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	0	8.37	0.004797	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	10	8.70	0.004986	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	20	-4.86	-0.002785	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	30	5.36	0.003072	±2.5	PASS

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Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	40	8.97	0.005140	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	50	9.46	0.005421	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	60	9.03	0.005175	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	70	5.06	0.002900	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	-40	9.51	0.005450	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	85	6.41	0.003673	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	85	7.21	0.004132	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	-30	8.87	0.005083	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	-20	6.61	0.003788	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	-10	5.64	0.003232	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	0	6.28	0.003599	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	10	5.81	0.003330	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	20	6.11	0.003501	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	30	-3.78	-0.002166	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	40	7.42	0.004252	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	50	4.99	0.002860	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	60	8.11	0.004648	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	70	8.63	0.004946	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@47	3.75kHz	NV	80	9.44	0.005410	±2.5	PASS
Band66	Stand-Alone	NaN	QPSK	132322	1@0	3.75kHz	NV	80	6.09	0.003490	±2.5	PASS