

Appendix C: Test Results of Band 5 for NB-IoT operation

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

Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)		Verdict
							dBm	dBm	Watts	FCC	ISED	
Band5	Stand-Alone	NaN	QPSK	20401	1@0	15kHz	11.55	11.54	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@11	15kHz	11.53	11.52	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20401	3@3	15kHz	11.59	11.58	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20402	1@0	15kHz	21.70	21.69	0.148	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20402	3@3	15kHz	24.80	24.79	0.301	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20402	1@11	15kHz	21.64	21.63	0.146	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	21.45	21.44	0.139	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	21.24	21.23	0.133	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	3@3	15kHz	23.13	23.12	0.205	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20648	1@11	15kHz	21.31	21.3	0.135	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20648	1@0	15kHz	21.40	21.39	0.138	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20648	3@3	15kHz	24.70	24.69	0.294	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@11	15kHz	11.27	11.26	0.013	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20649	3@3	15kHz	11.40	11.39	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	15kHz	11.38	11.37	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	11.39	11.38	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20401	3@3	15kHz	11.60	11.59	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	11.33	11.32	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20402	1@11	15kHz	21.60	21.59	0.144	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20402	1@0	15kHz	21.70	21.69	0.148	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20402	3@3	15kHz	22.03	22.02	0.159	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	23.02	23.01	0.200	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	21.43	21.42	0.139	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20525	3@3	15kHz	23.14	23.13	0.206	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20648	1@11	15kHz	21.24	21.23	0.133	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20648	1@0	15kHz	21.21	21.2	0.132	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20648	3@3	15kHz	21.55	21.54	0.143	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	11.14	11.13	0.013	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20649	3@3	15kHz	11.39	11.38	0.014	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	11.15	11.14	0.013	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	6.71	6.7	0.005	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	6.74	6.73	0.005	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20402	1@0	3.75kHz	24.64	24.63	0.290	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20402	1@47	3.75kHz	24.57	24.56	0.286	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20648	1@0	3.75kHz	24.44	24.43	0.277	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20648	1@47	3.75kHz	24.41	24.4	0.275	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	6.50	6.49	0.004	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	6.55	6.54	0.005	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@47	3.75kHz	6.64	6.63	0.005	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	3.75kHz	6.65	6.64	0.005	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20402	1@0	3.75kHz	24.51	24.5	0.282	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20402	1@47	3.75kHz	24.47	24.46	0.279	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20648	1@0	3.75kHz	24.34	24.33	0.271	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20648	1@47	3.75kHz	24.34	24.33	0.271	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@47	3.75kHz	6.41	6.4	0.004	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	3.75kHz	6.44	6.43	0.004	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	24.63	24.62	0.290	7	11.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	24.62	24.61	0.289	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	3.75kHz	24.59	24.58	0.287	7	11.5	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@47	3.75kHz	24.56	24.55	0.285	7	11.5	PASS

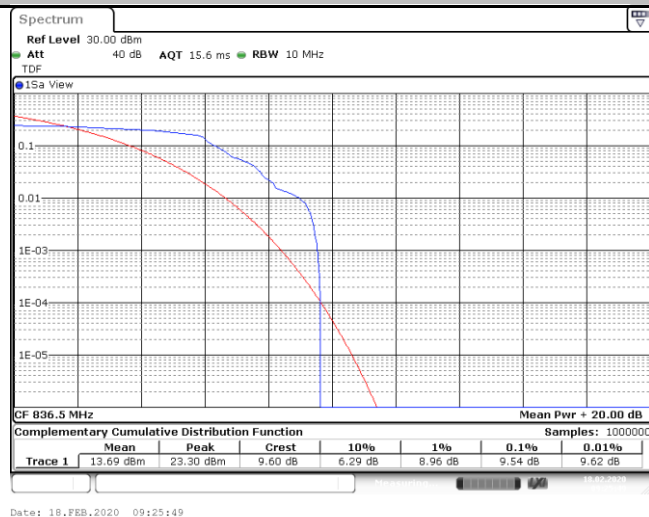
Appendix C.2: Peak-to-Average Ratio (CCDF) for NB

Test Result

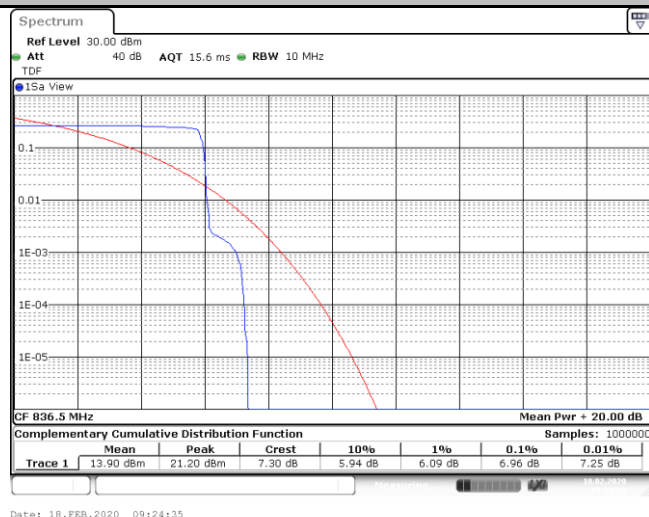
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band5	Stand-Alone	NaN	QPSK	20525	3@3	15kHz	9.54	<=13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	6.96	<=13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	4.38	<=13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	3@3	15kHz	9.54	<=13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	3.59	<=13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	8.55	<=13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	3.22	<=13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	1.8	<=13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@47	3.75kHz	3.83	<=13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	3.75kHz	3.3	<=13	PASS

Test Graphs

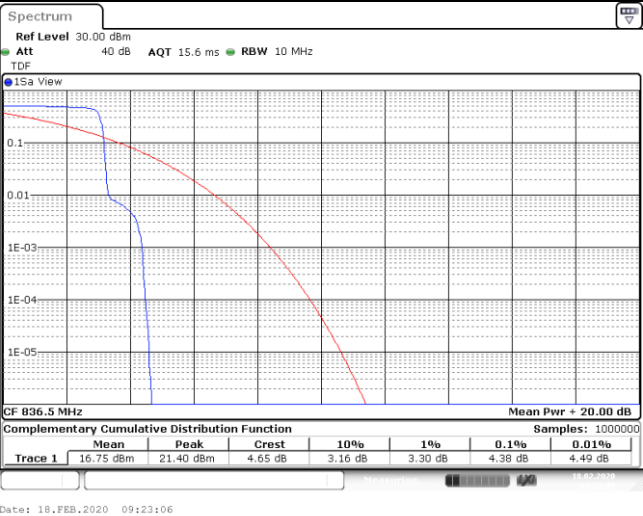
Band5_Stand-Alone_NaN_QPSK_20525_3@3_15kHz_9.54_<=13_PASS__



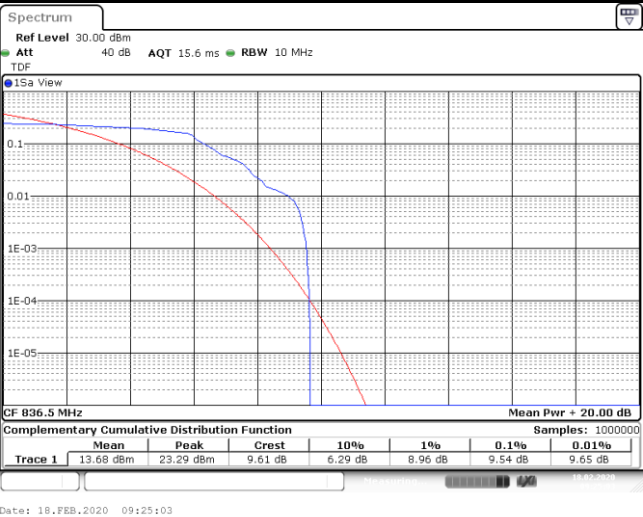
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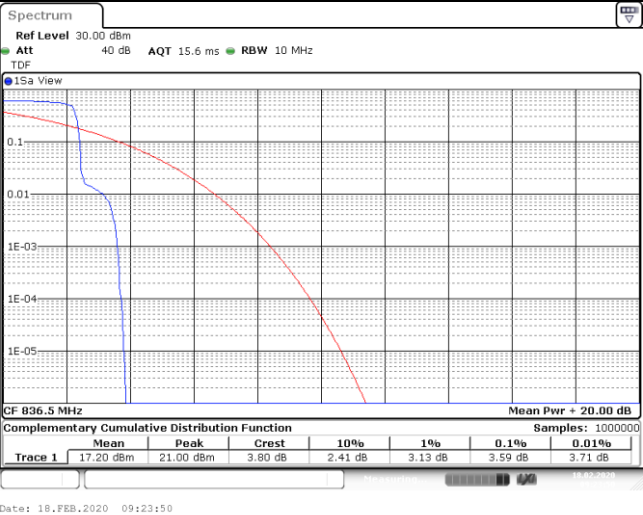
Band5_Stand-Alone_NaN_QPSK_20525_1@0_15kHz_4.38_<=13_PASS__



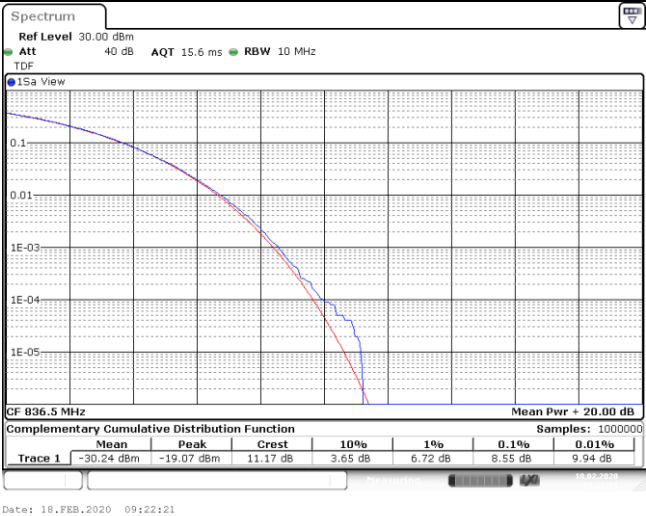
Band5_Stand-Alone_NaN_BPSK_20525_3@3_15kHz_9.54_<=13_PASS__



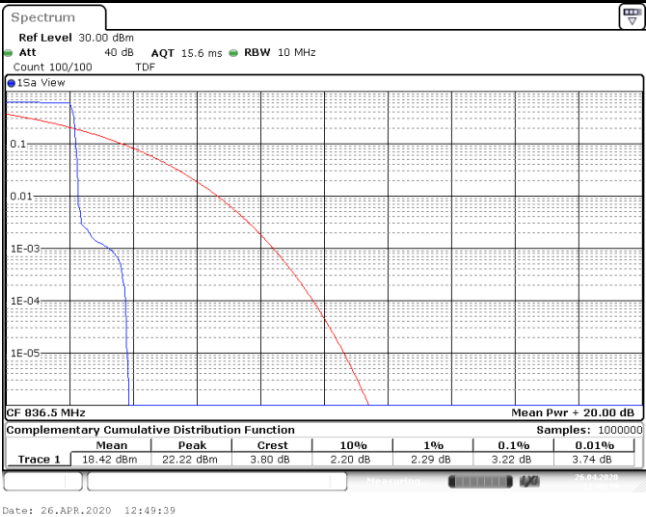
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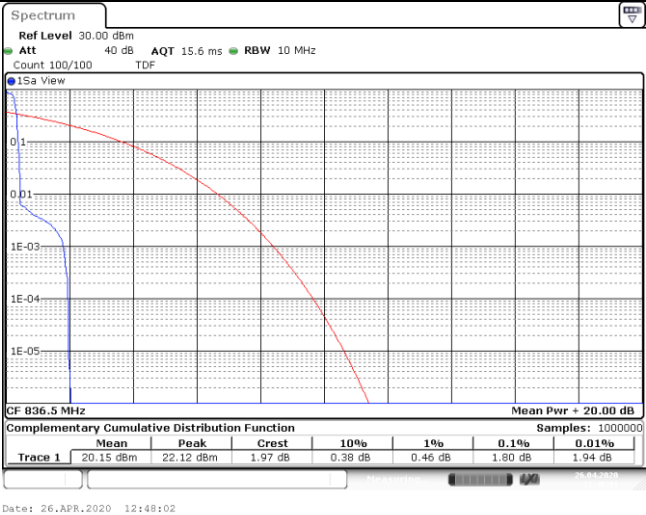
Band5_Stand-Alone_NaN_BPSK_20525_1@0_15kHz_8.55_<=13_PASS__



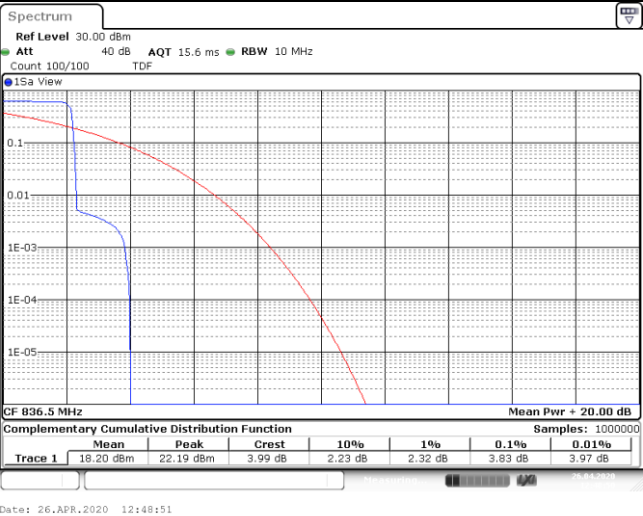
Band5_Stand-Alone_NaN_QPSK_20525_1@47_3.75kHz_3.22_<=13_PASS__



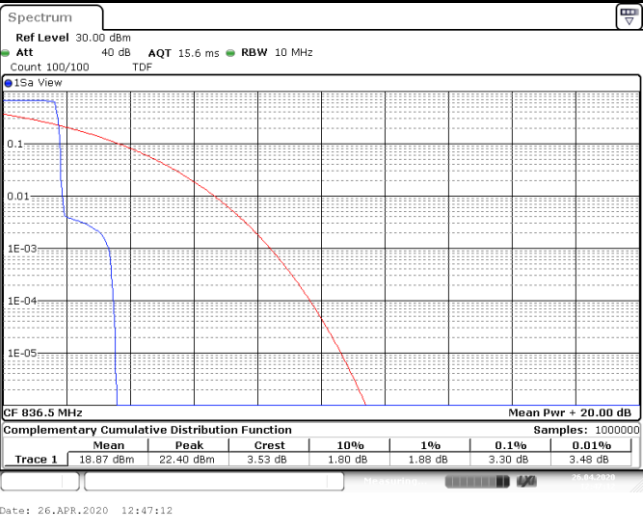
Band5_Stand-Alone_NaN_QPSK_20525_1@0_3.75kHz_1.8_<=13_PASS__



Band5_Stand-Alone_NaN_BPSK_20525_1@47_3.75kHz_3.83_<=13_PASS__



Band5_Stand-Alone_NaN_BPSK_20525_1@0_3.75kHz_3.3_<=13_PASS__

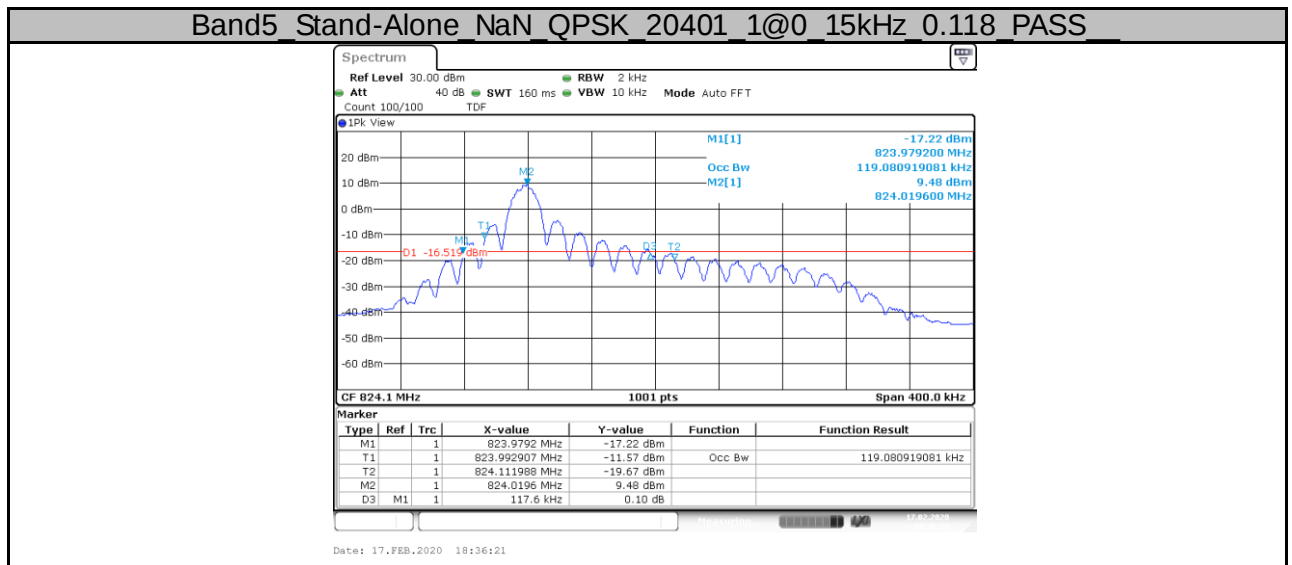


Appendix C.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

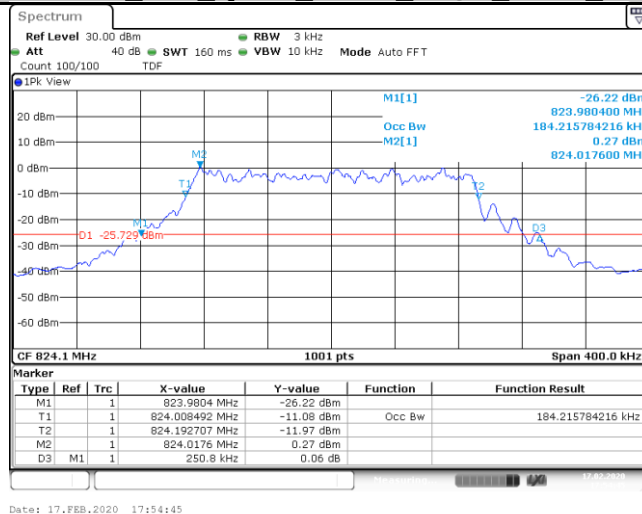
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band5	Stand-Alone	NaN	QPSK	20401	1@0	15kHz	0.118	0.119	Pass
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	0.251	0.184	Pass
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	0.118	0.119	Pass
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	0.250	0.184	Pass
Band5	Stand-Alone	NaN	QPSK	20649	1@0	15kHz	0.118	0.119	Pass
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	0.251	0.184	Pass
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	0.104	0.127	Pass
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	0.106	0.127	Pass
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	0.104	0.127	Pass
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	0.038	0.052	Pass
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	0.037	0.052	Pass
Band5	Stand-Alone	NaN	BPSK	20401	1@0	3.75kHz	0.034	0.055	Pass
Band5	Stand-Alone	NaN	BPSK	20649	1@0	3.75kHz	0.034	0.055	Pass
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	0.037	0.049	Pass
Band5	Stand-Alone	NaN	BPSK	20525	1@0	3.75kHz	0.032	0.054	Pass

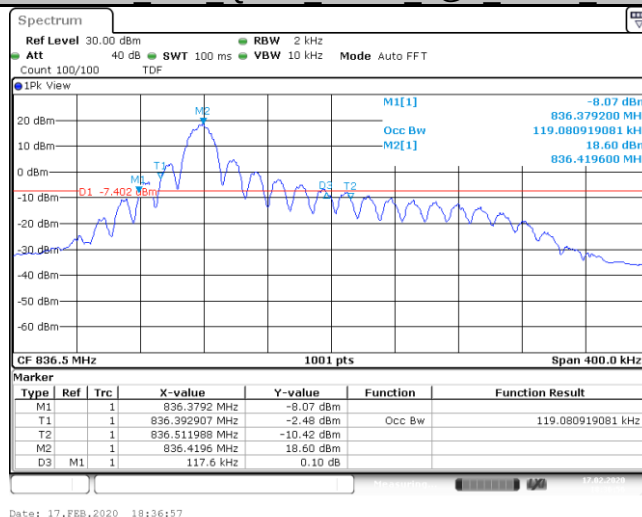
Test Graphs



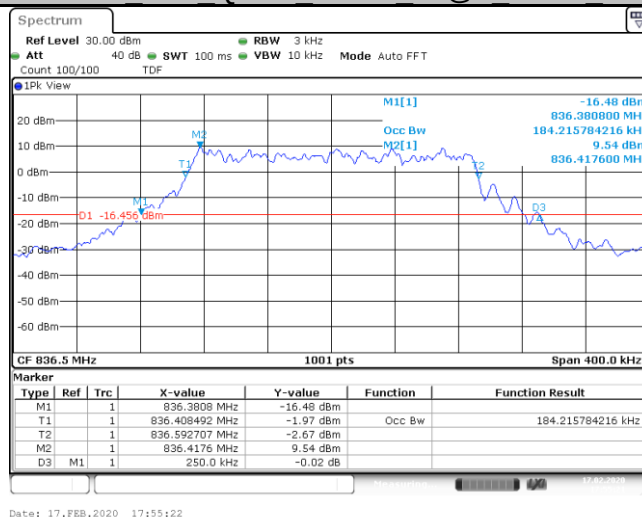
Band5 Stand-Alone NaN QPSK 20401 12@0 15kHz 0.251 PASS



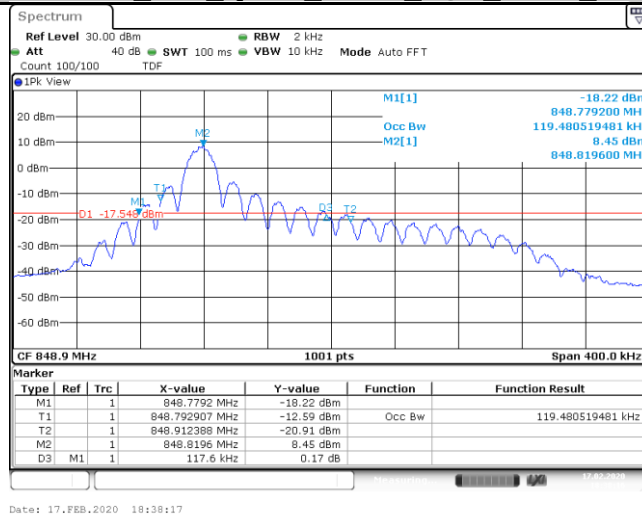
Band5 Stand-Alone NaN QPSK 20525 1@0 15kHz 0.118 PASS



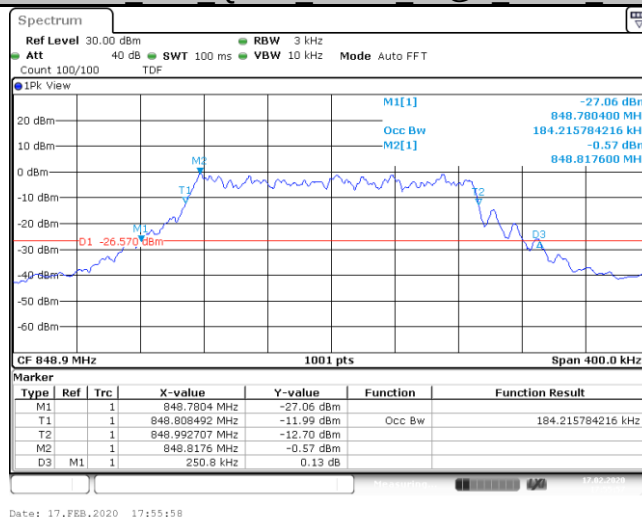
Band5 Stand-Alone NaN QPSK 20525 12@0 15kHz 0.250 PASS



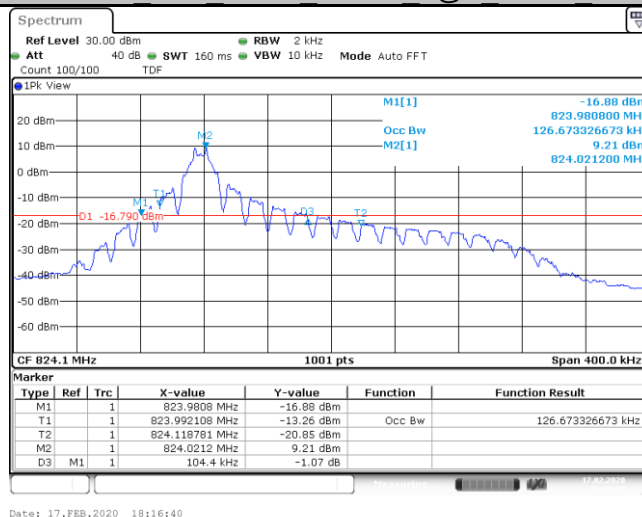
Band5 Stand-Alone NaN QPSK 20649 1@0 15kHz 0.118 PASS



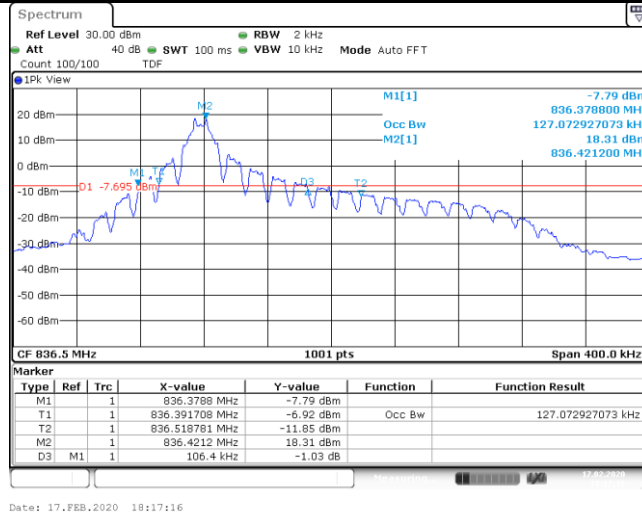
Band5 Stand-Alone NaN QPSK 20649 12@0 15kHz 0.251 PASS



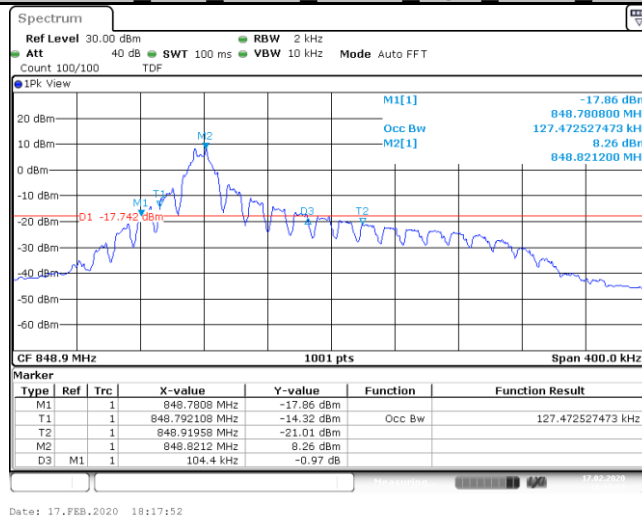
Band5 Stand-Alone NaN BPSK 20401 1@0 15kHz 0.104 PASS



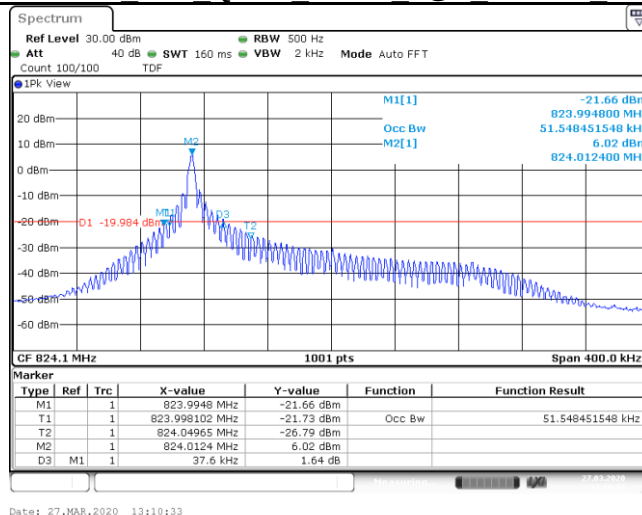
Band5 Stand-Alone NaN BPSK 20525 1@0 15kHz 0.106 PASS



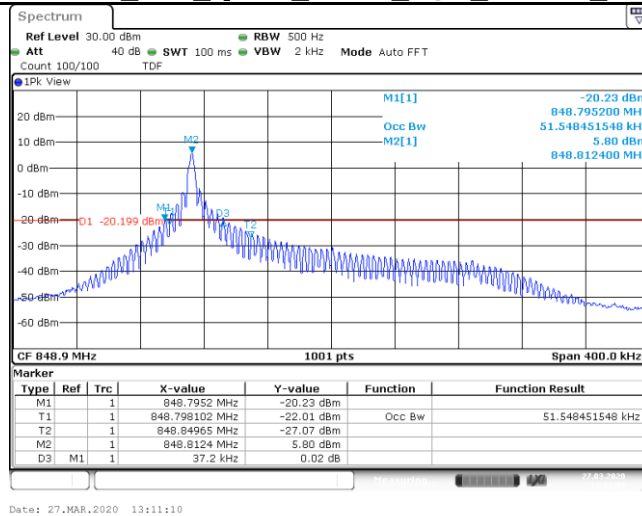
Band5 Stand-Alone NaN BPSK 20649 1@0 15kHz 0.104 PASS



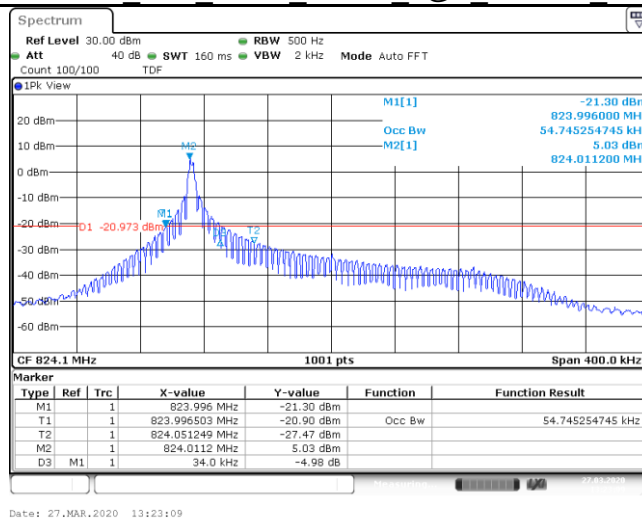
Band5 Stand-Alone NaN QPSK 20401 1@0 3.75kHz 0.038 PASS



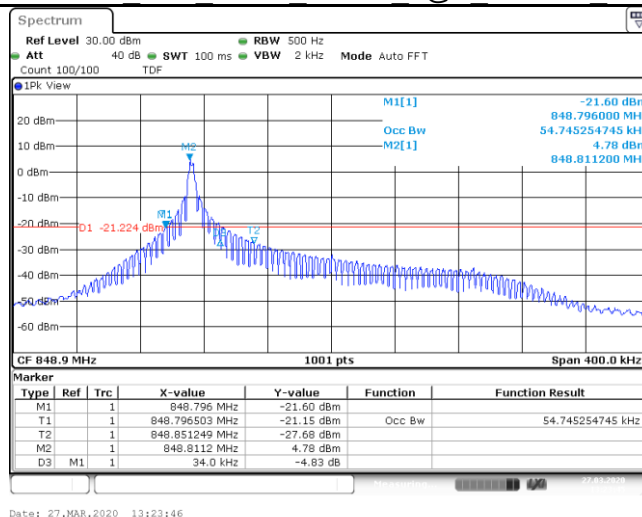
Band5 Stand-Alone NaN QPSK 20649 1@0 3.75kHz 0.037 PASS



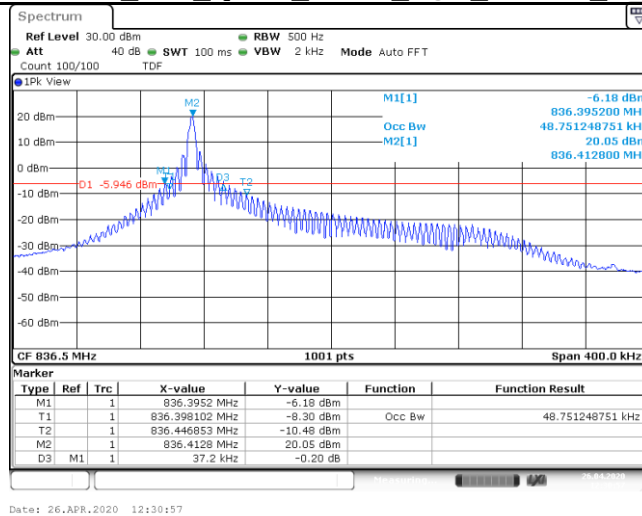
Band5 Stand-Alone NaN BPSK 20401 1@0 3.75kHz 0.034 PASS



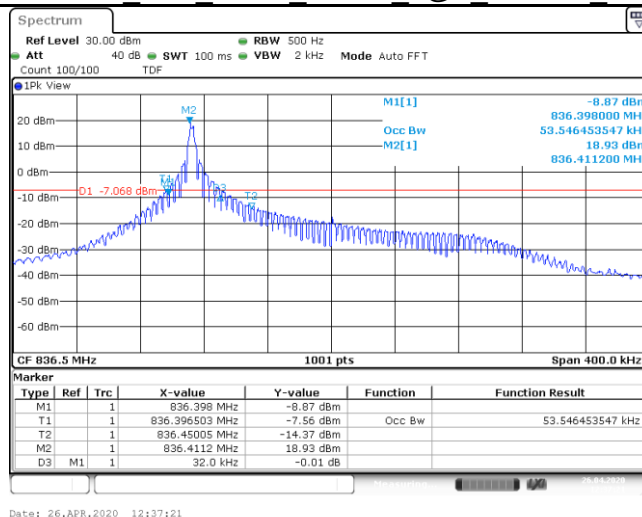
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Band5 Stand-Alone NaN QPSK 20525 1@0 3.75kHz 0.037 PASS



Band5 Stand-Alone NaN BPSK 20525 1@0 3.75kHz 0.032 PASS

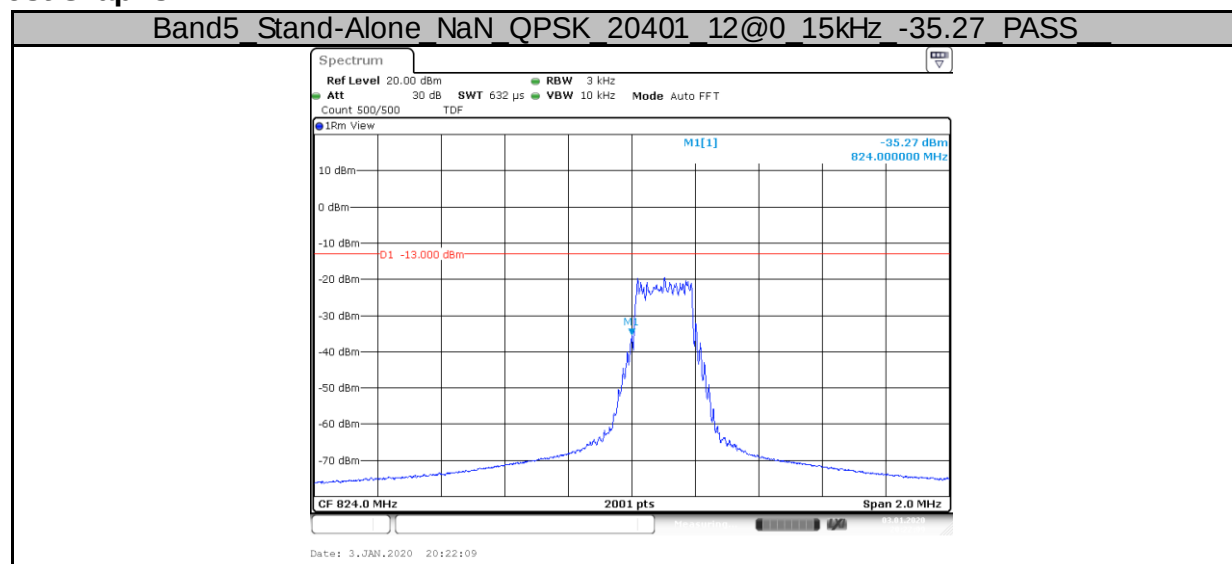


Appendix C.4: Band Edge for NB

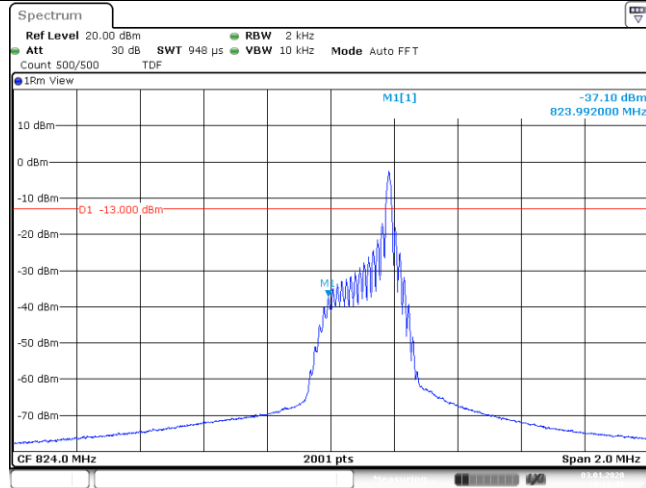
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	-35.27	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@11	15kHz	-37.10	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	15kHz	-18.83	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	-32.73	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@11	15kHz	-19.24	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	15kHz	-38.05	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	-35.50	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	-16.37	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	-77.30	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	-36.67	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	-48.61	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	-27.15	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	-26.98	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	-48.27	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@47	3.75kHz	-47.47	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	3.75kHz	-25.74	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@47	3.75kHz	-25.70	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	3.75kHz	-47.12	-13	PASS

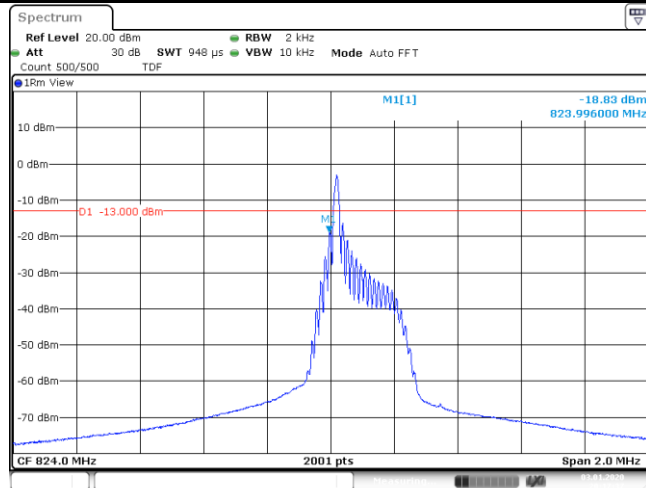
Test Graphs



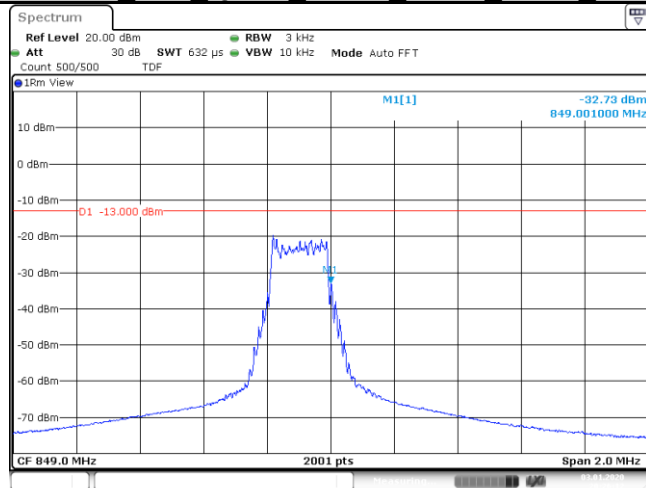
Band5 Stand-Alone NaN QPSK 20401 1@11 15kHz -37.10 PASS



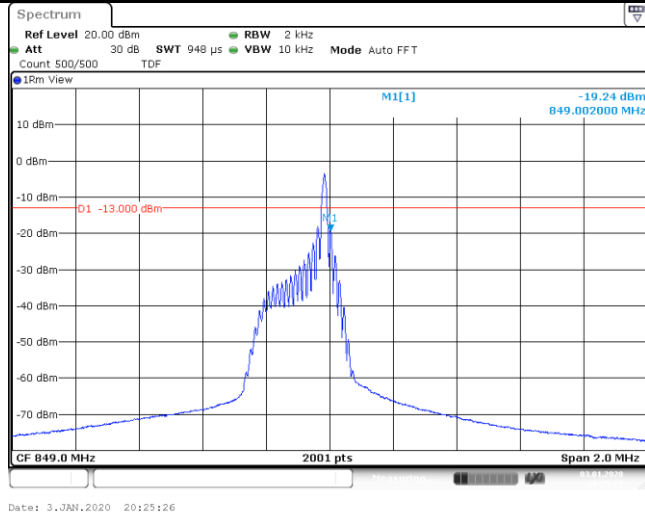
Band5 Stand-Alone NaN QPSK 20401 1@0 15kHz -18.83 PASS



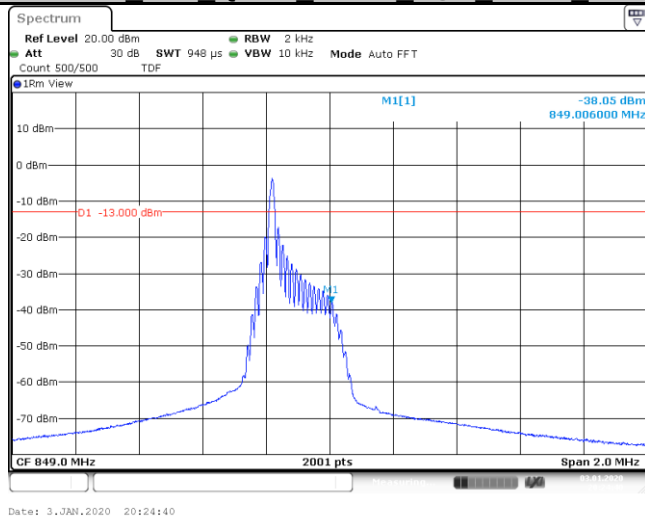
Band5 Stand-Alone NaN QPSK 20649 12@0 15kHz -32.73 PASS



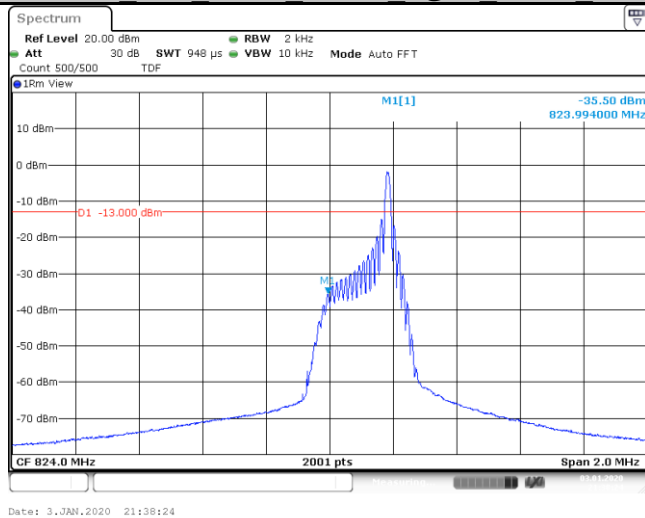
Band5 Stand-Alone NaN QPSK 20649 1@11 15kHz -19.24 PASS



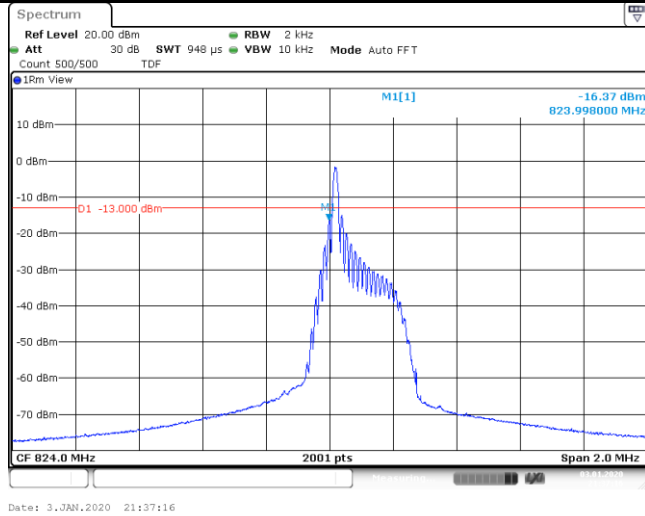
Band5 Stand-Alone NaN QPSK 20649 1@0 15kHz -38.05 PASS



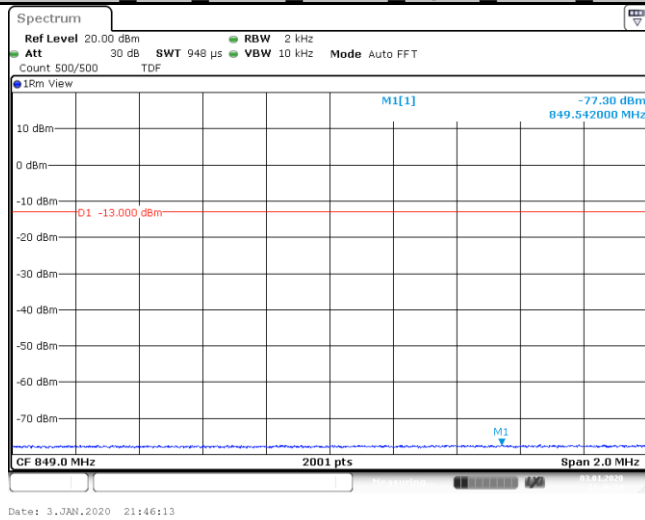
Band5 Stand-Alone NaN BPSK 20401 1@11 15kHz -35.50 PASS



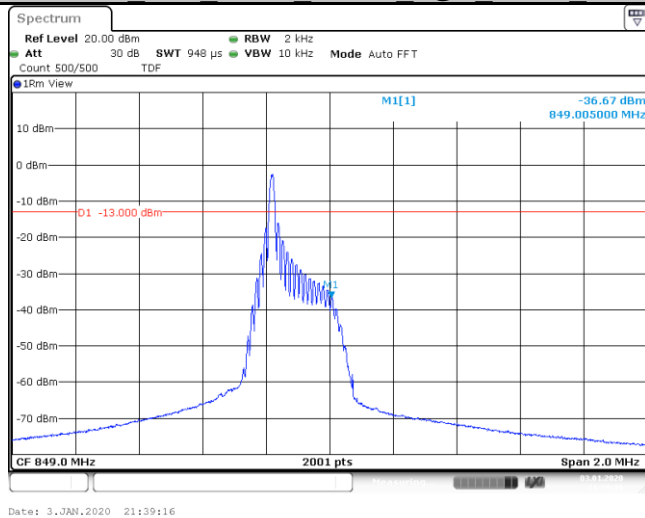
Band5 Stand-Alone NaN BPSK 20401 1@0 15kHz -16.37 PASS



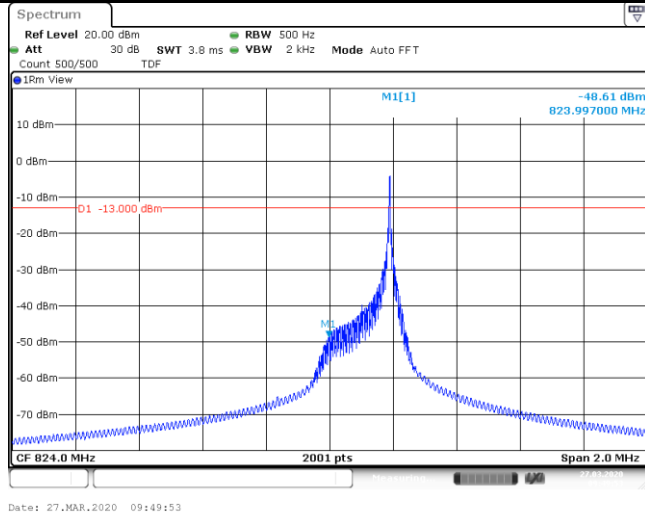
Band5 Stand-Alone NaN BPSK 20649 1@11 15kHz -77.30 PASS



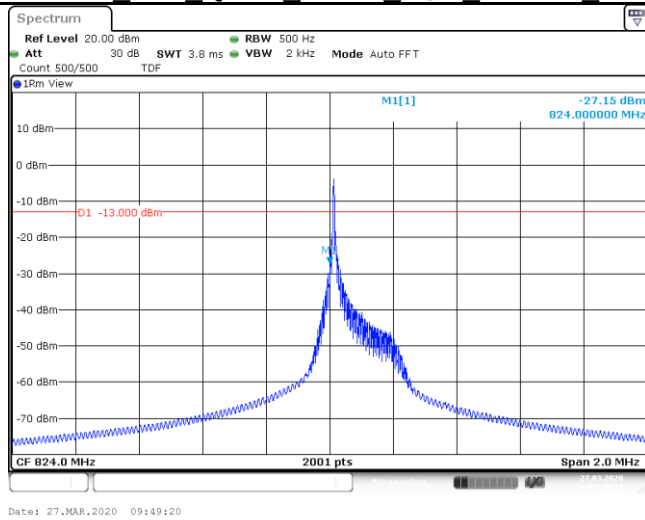
Band5 Stand-Alone NaN BPSK 20649 1@0 15kHz -36.67 PASS



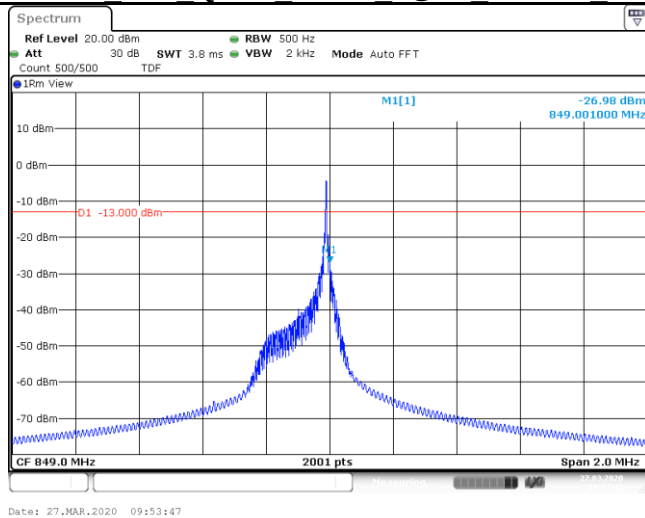
Band5 Stand-Alone NaN QPSK 20401 1@47 3.75kHz -48.61 PASS



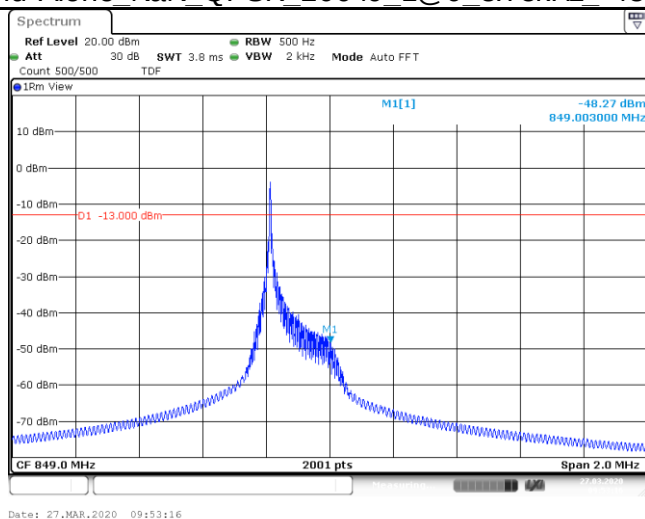
Band5 Stand-Alone NaN QPSK 20401 1@0 3.75kHz -27.15 PASS



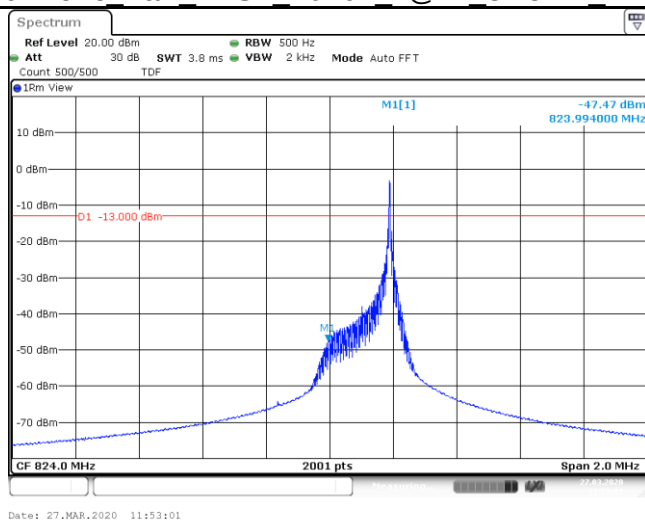
Band5 Stand-Alone NaN QPSK 20649 1@47 3.75kHz -26.98 PASS



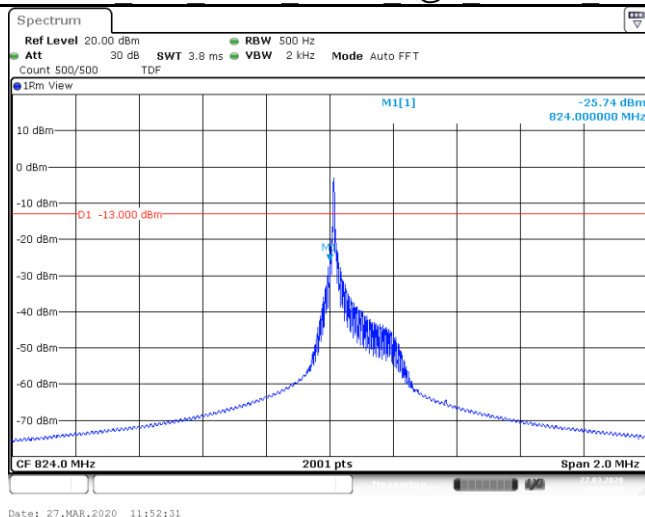
Band5 Stand-Alone NaN QPSK 20649 1@0 3.75kHz -48.27 PASS



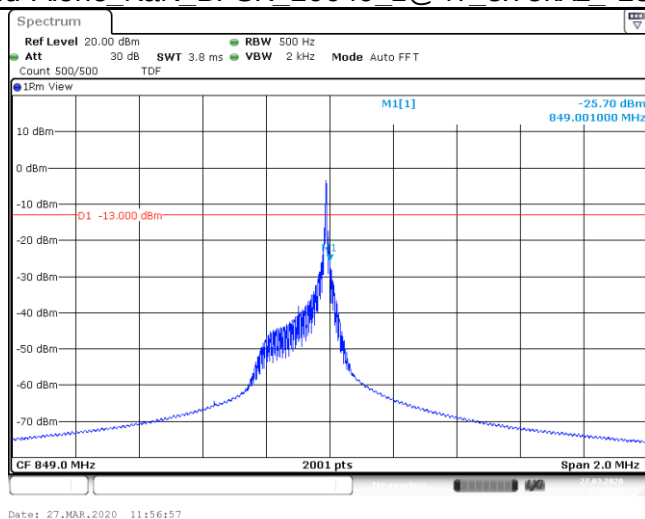
Band5 Stand-Alone NaN BPSK 20401 1@47 3.75kHz -47.47 PASS



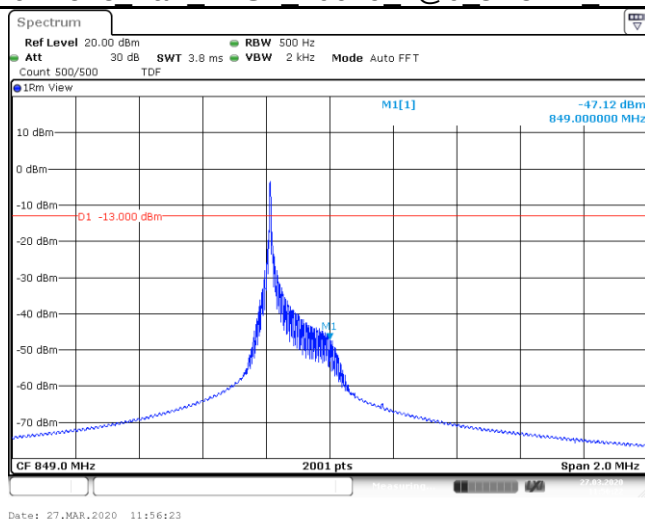
Band5 Stand-Alone NaN BPSK 20401 1@0 3.75kHz -25.74 PASS



Band5 Stand-Alone NaN BPSK 20649 1@47 3.75kHz -25.70 PASS



Band5 Stand-Alone NaN BPSK 20649 1@0 3.75kHz -47.12 PASS



Appendix C.5: Conducted Spurious Emission for NB

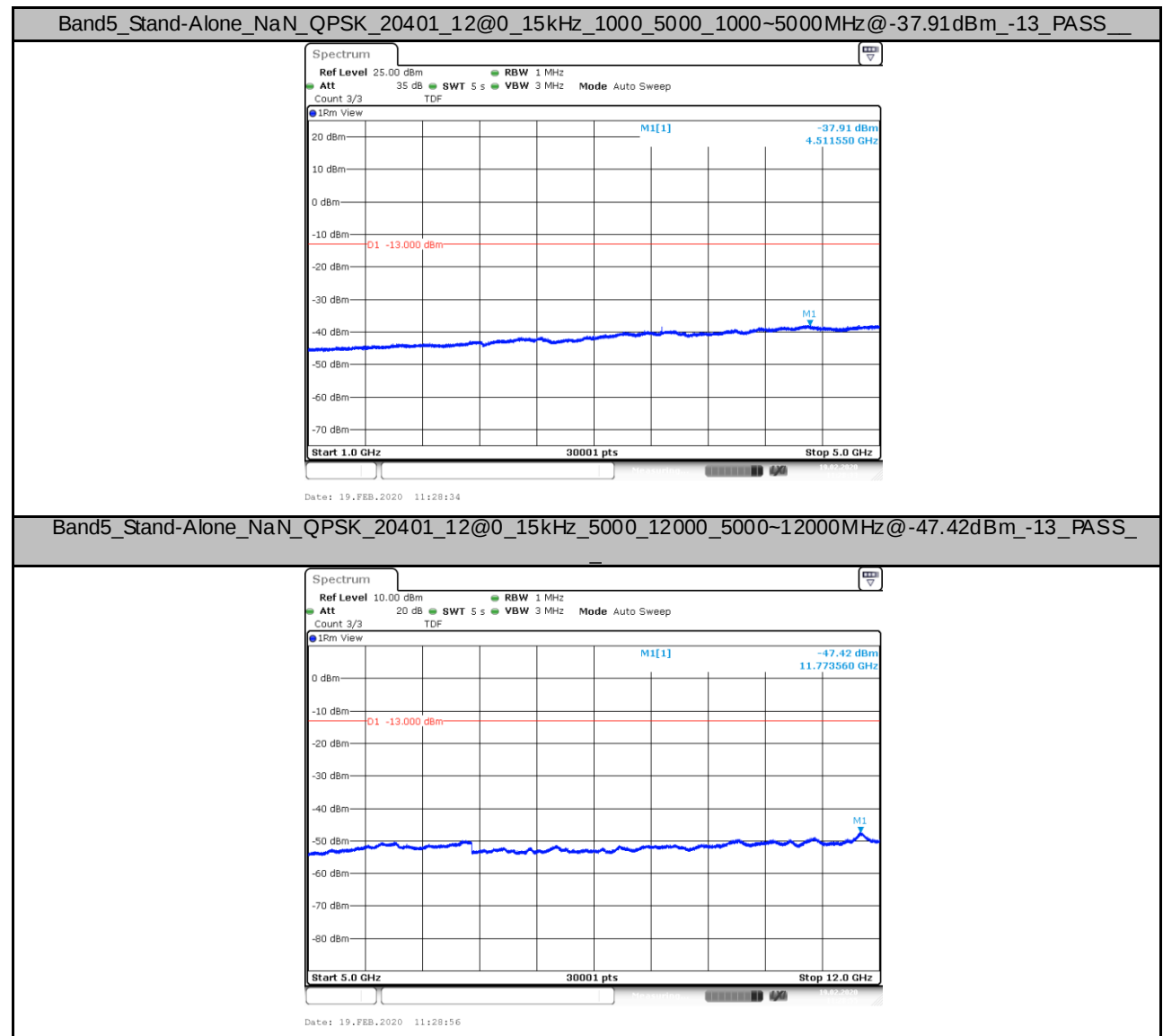
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	1000	5000	1000-5000MHz@-37.91dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	5000	12000	5000-12000MHz@-47.42dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	12000	26500	12000-26500MHz@-41.14dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	30	1000	30-1000MHz@-36.36dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	30	1000	30-1000MHz@-35.59dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	1000	5000	1000-5000MHz@-37.81dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	5000	12000	5000-12000MHz@-47.38dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	12000	26500	12000-26500MHz@-41.31dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	30	1000	30-1000MHz@-35.51dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	12000	26500	12000-26500MHz@-41.37dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	1000	5000	1000-5000MHz@-37.81dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	5000	12000	5000-12000MHz@-47.37dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	1000	5000	1000-5000MHz@-37.72dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	30	1000	30-1000MHz@-35.44dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	1000	5000	1000-5000MHz@-37.58dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	5000	12000	5000-12000MHz@-47.38dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	12000	26500	12000-26500MHz@-41.32dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	5000	12000	5000-12000MHz@-47.28dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	12000	26500	12000-26500MHz@-41.43dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	30	1000	30-1000MHz@-34.8dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	5000	12000	5000-12000MHz@-47.28dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	12000	26500	12000-26500MHz@-41.17dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	1000	5000	1000-5000MHz@-37.73dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	30	1000	30-1000MHz@-36.02dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	12000	26500	12000-26500MHz@-41.38dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	5000	12000	5000-12000MHz@-47.26dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	1000	5000	1000-5000MHz@-37.79dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	30	1000	30-1000MHz@-34.81dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	12000	26500	12000-26500MHz@-41.31dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	1000	5000	1000-5000MHz@-37.73dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	5000	12000	5000-12000MHz@-47.31dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	12000	26500	12000-26500MHz@-41.18dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	30	1000	30-1000MHz@-35.58dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	1000	5000	1000-5000MHz@-37.79dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	5000	12000	5000-12000MHz@-47.19dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	30	1000	30-1000MHz@-35.8dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.45dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.63dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.83dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.32dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	30	1000	30-1000MHz@-34.94dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.79dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	30	1000	30-1000MHz@-35.8dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.61dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.39dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.74dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.73dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.13dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	30	1000	30-1000MHz@-35.3dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.73dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.78dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	30	1000	30-1000MHz@-35.83dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.81dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.57dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.35dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.54dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	30	1000	30-1000MHz@-35.53dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.83dBm	-13	PASS

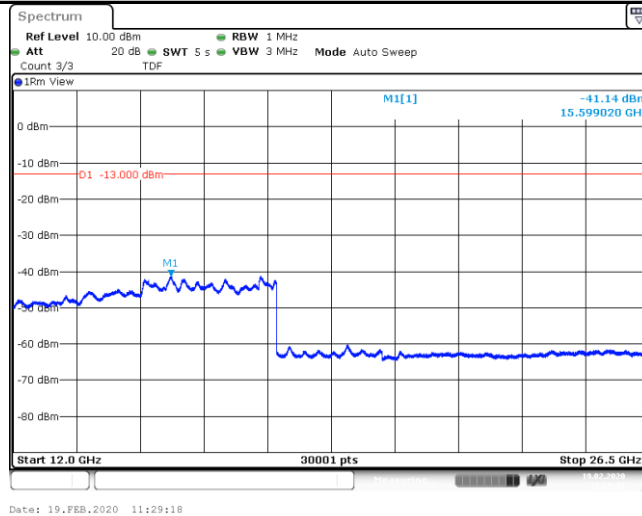
Produkte
Products

Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.69dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	30	1000	30~1000MHz@-35.67dBm	-13	PASS

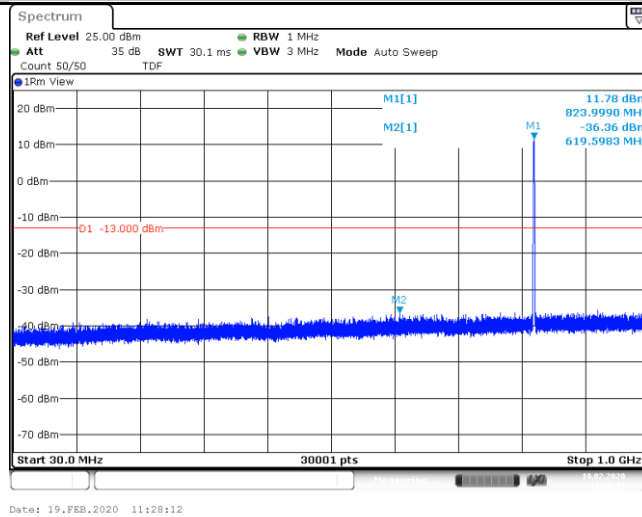
Test Graphs



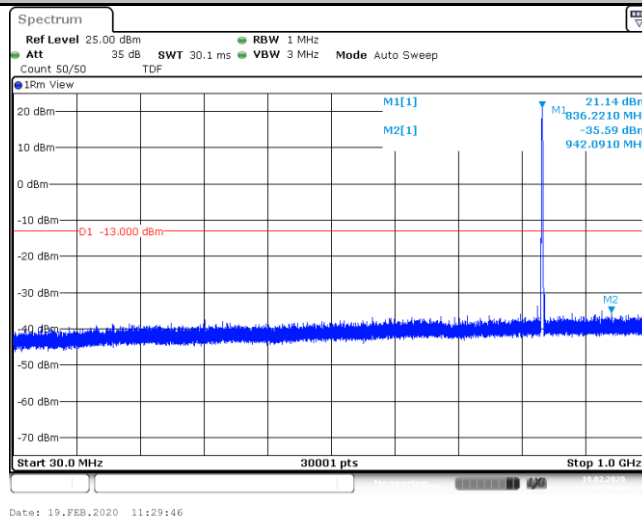
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S



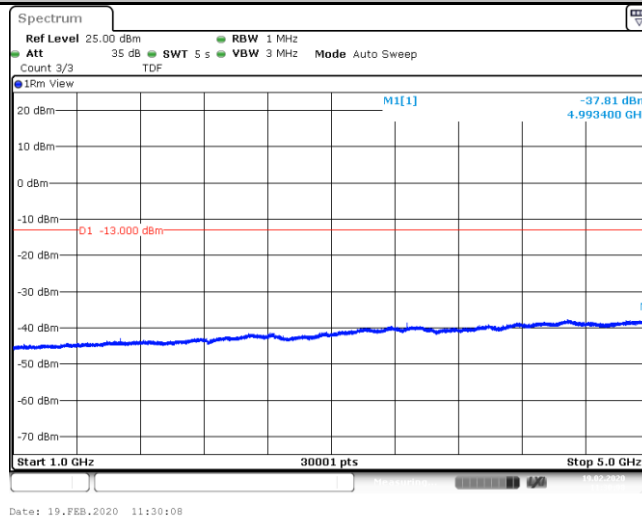
Band5_Stand-Alone_NaN_QPSK_20401_12@0_15kHz_30_1000_30~1000MHz@-36.36dBm_-13_PASS



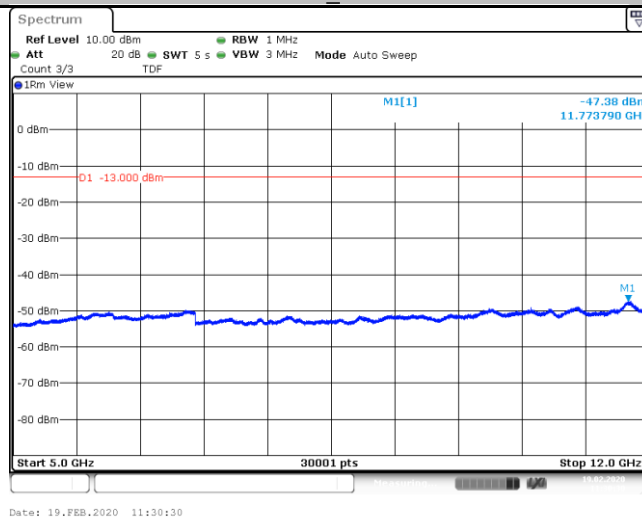
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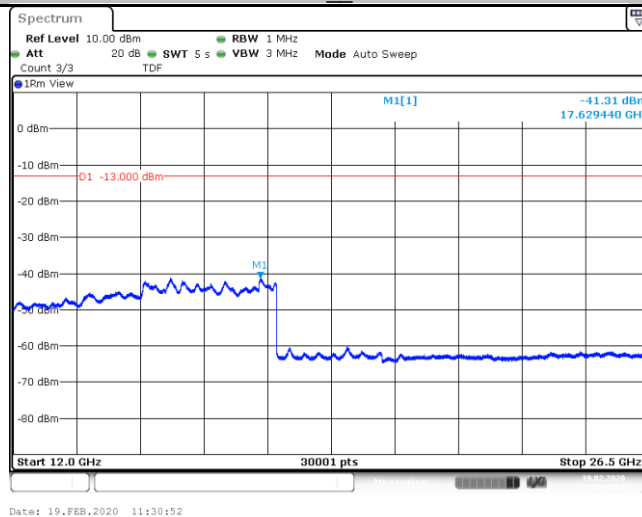
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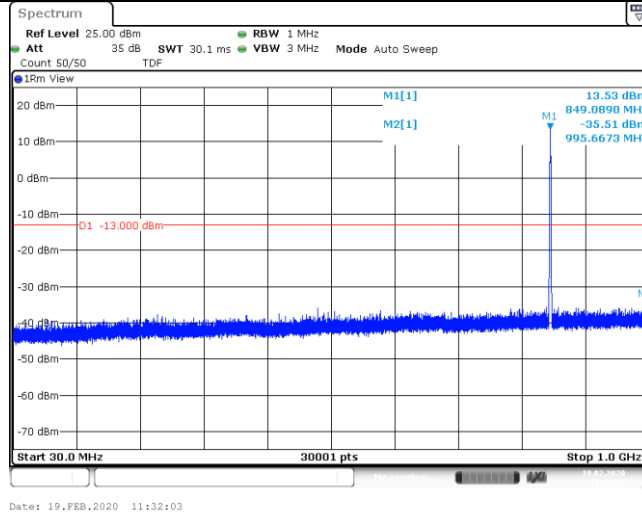
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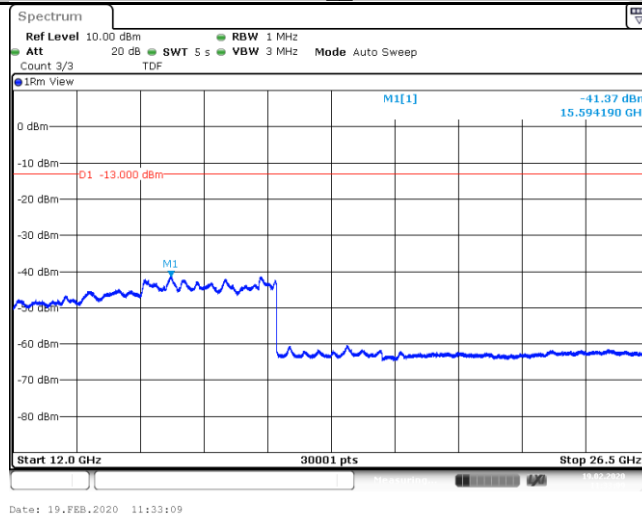
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S__



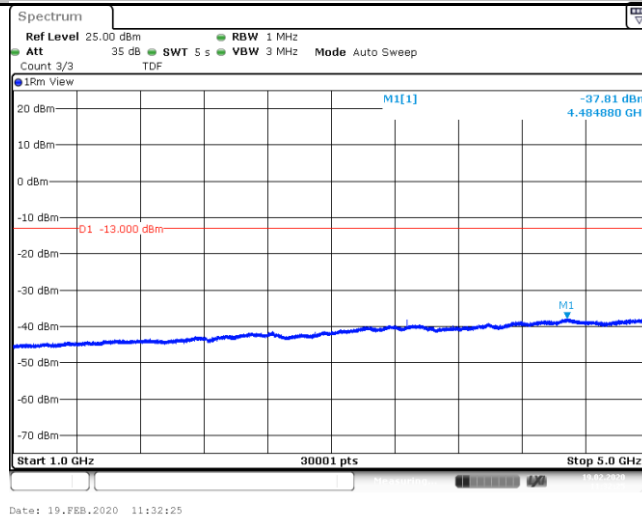
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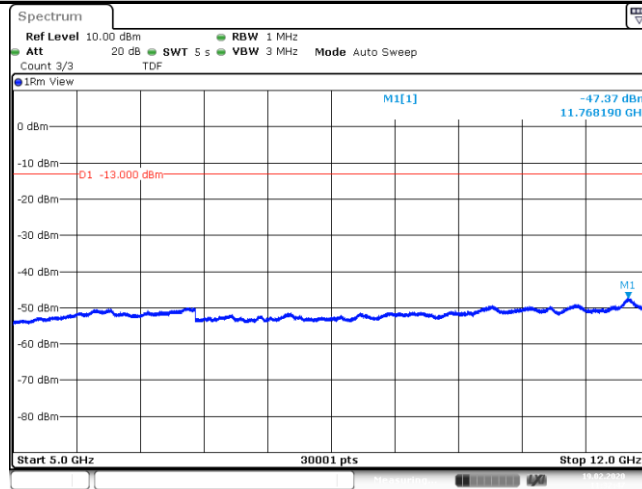
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Band5_Stand-Alone_NaN_QPSK_20649_12@0_15kHz_1000_5000_1000~5000MHz@-37.81dBm_-13_PASS__

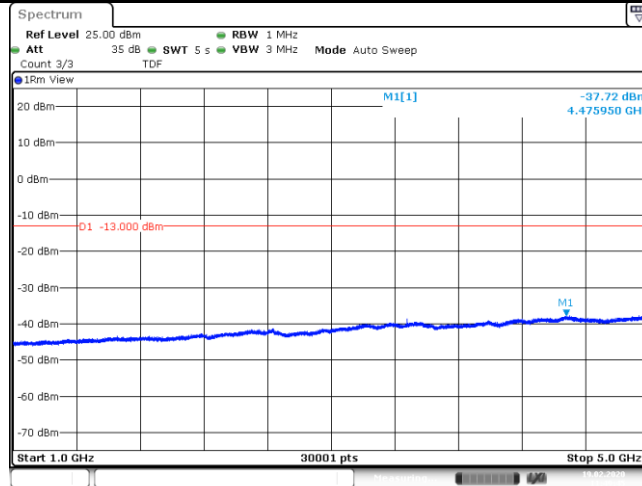


Band5_Stand-Alone_NaN_QPSK_20649_12@0_15kHz_5000_12000_5000~12000MHz@-47.37dBm_-13_PASS_



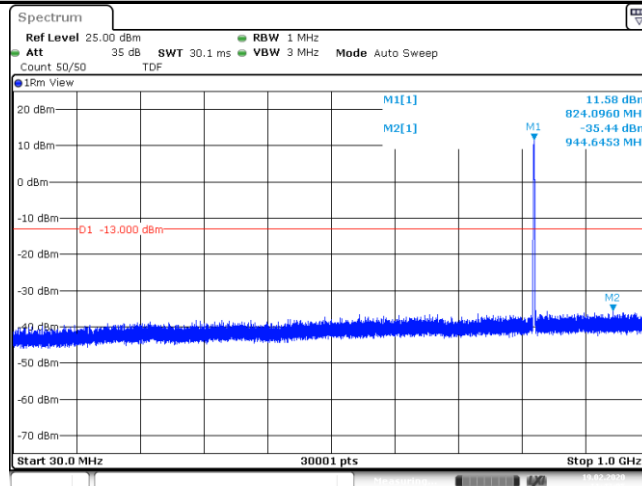
Date: 19.FEB.2020 11:32:47

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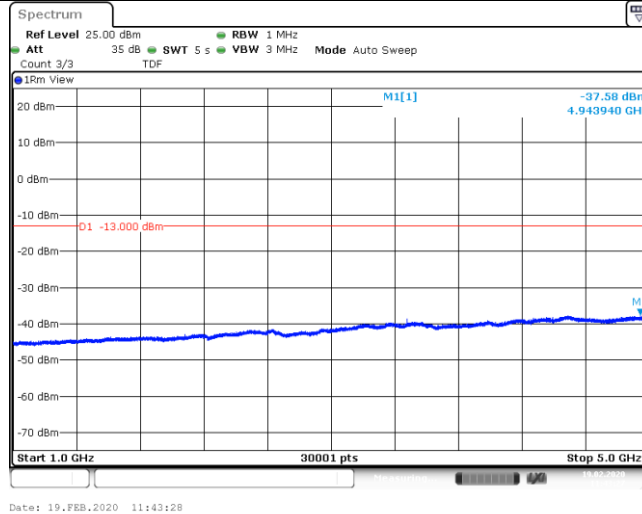
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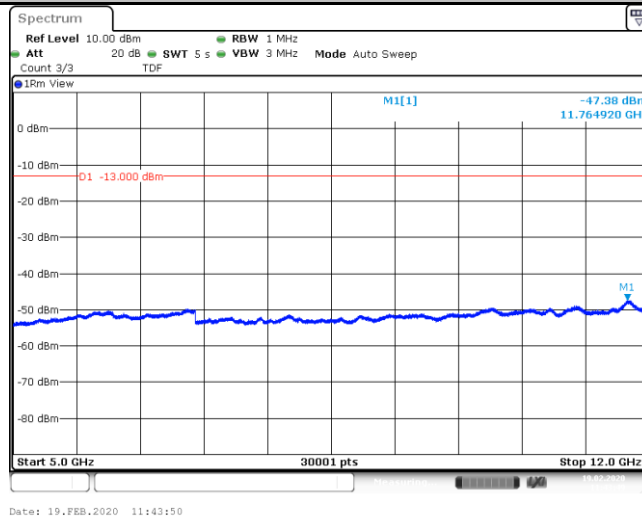


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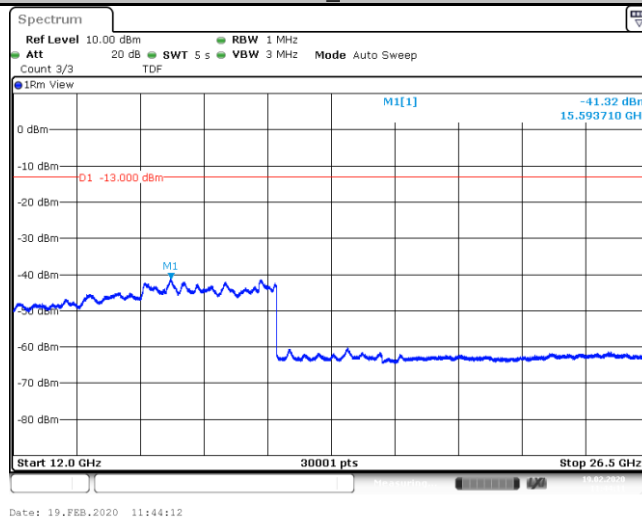
Band5_Stand-Alone_NaN_BPSK_20401_1@0_15kHz_1000_5000_1000~5000MHz@-37.58dBm_-13_PASS__



Band5_Stand-Alone_NaN_BPSK_20401_1@0_15kHz_5000_12000_5000~12000MHz@-47.38dBm_-13_PASS__



Band5_Stand-Alone_NaN_BPSK_20401_1@0_15kHz_12000_26500_12000~26500MHz@-41.32dBm_-13_PASS__



Spectrum

Ref Level 10.00 dBm

Att 20 dB

SWT 5 s

RBW 1 MHz

VBW 3 MHz

Mode Auto Sweep

Count 3/3

TDF

1Rm View

M1[1]

-47.28 dBm

11.77760 GHz

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

-80 dBm

O1 -13.000 dBm

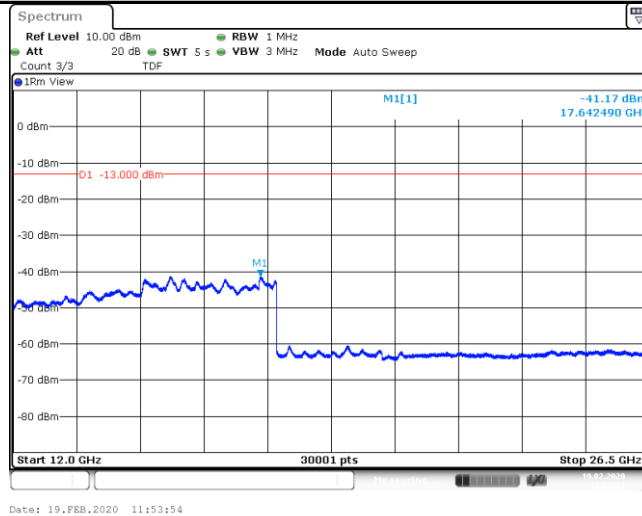
Start 5.0 GHz

30001 pts

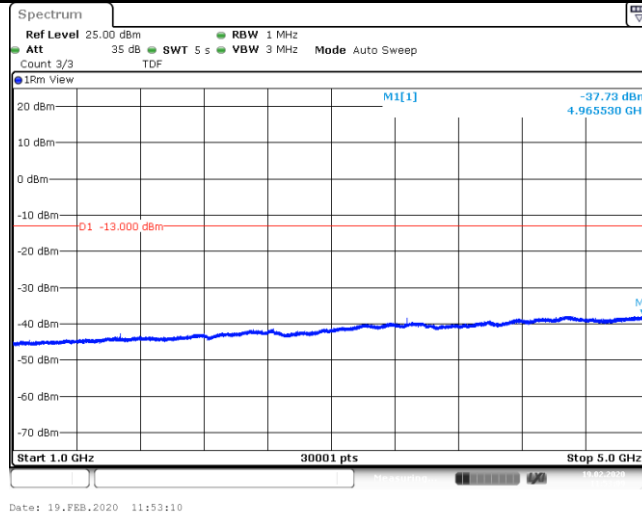
Stop 12.0 GHz

Date: 19.FEB.2020 11:53:32

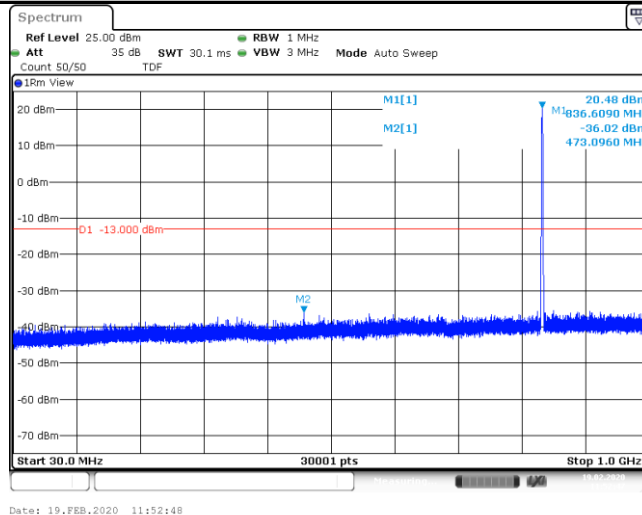
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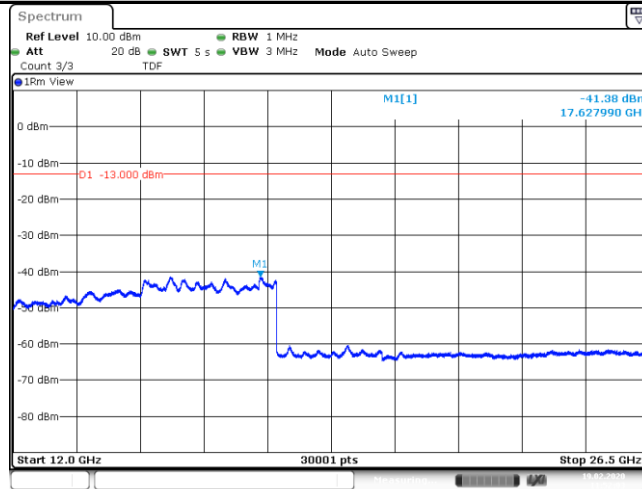
Band5_Stand-Alone_NaN_BPSK_20525_1@11_15kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS



Band5_Stand-Alone_NaN_BPSK_20525_1@11_15kHz_30_1000_30~1000MHz@-36.02dBm_-13_PASS

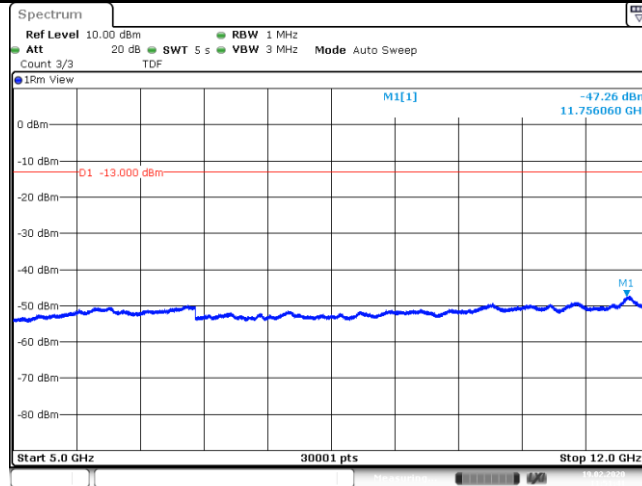


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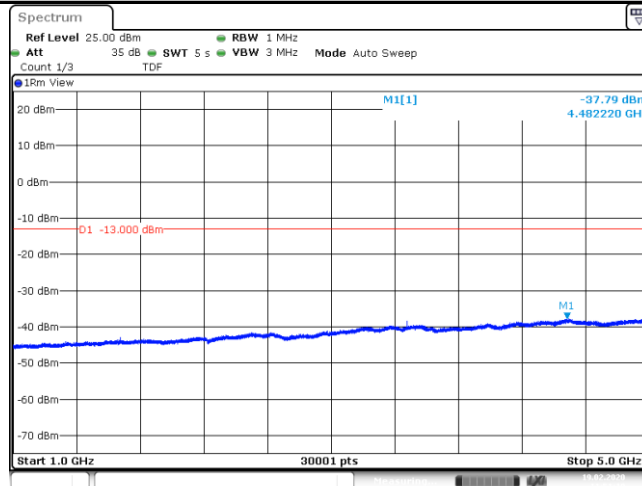
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Band5_Stand-Alone_NaN_BPSK_20525_1@0_15kHz_5000_12000_5000-12000MHz@-47.26dBm_-13_PASS_



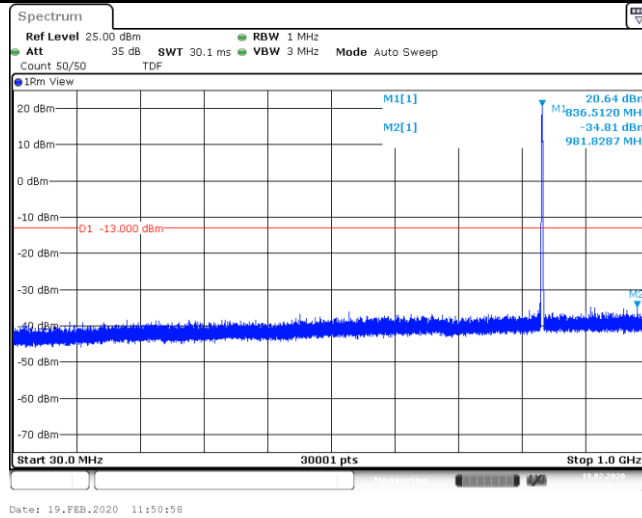
Date: 19.FEB.2020 11:51:42

Band5_Stand-Alone_NaN_BPSK_20525_1@0_15kHz_1000_5000_1000-5000MHz@-37.79dBm_-13_PASS_

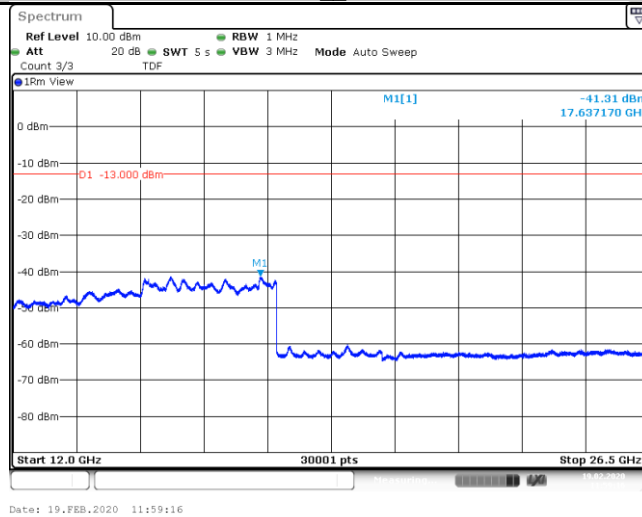


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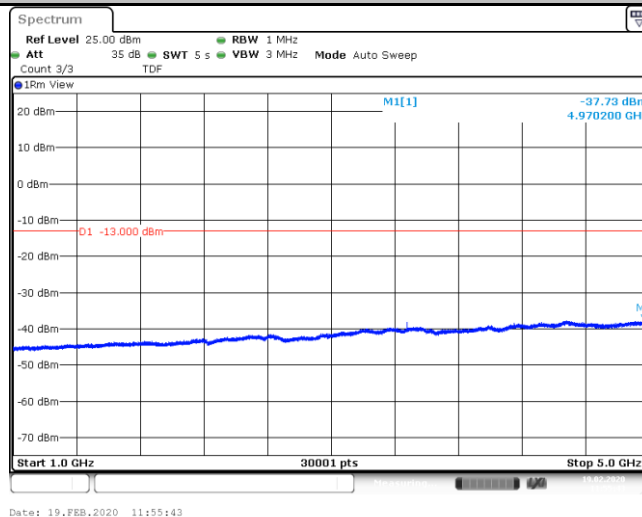
Band5_Stand-Alone_NaN_BPSK_20525_1@0_15kHz_30_1000_30~1000MHz@-34.81dBm_-13_PASS__



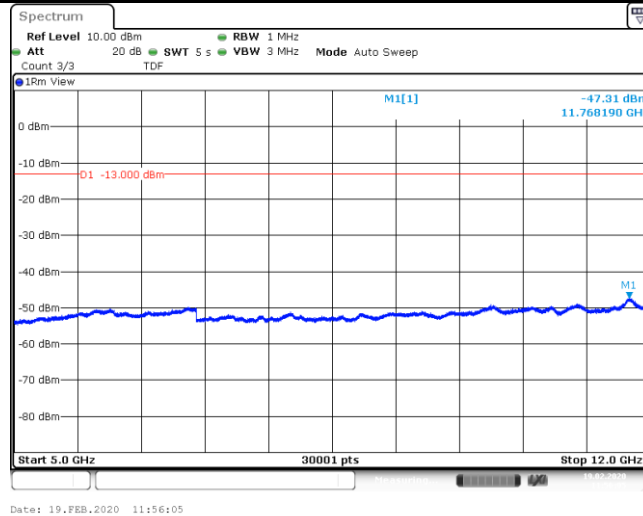
Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_PASS



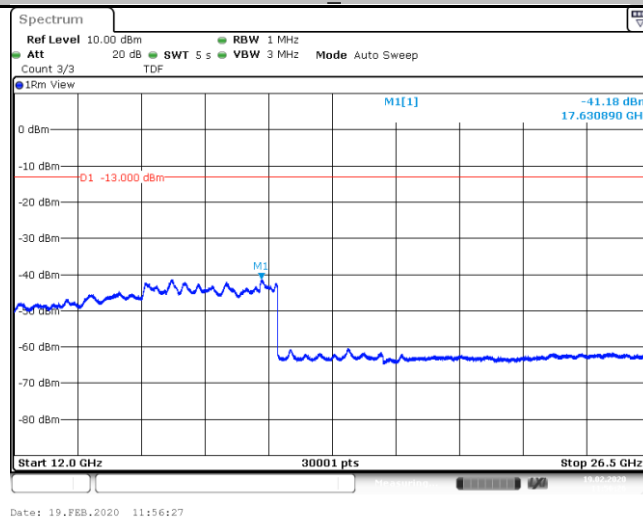
Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS__



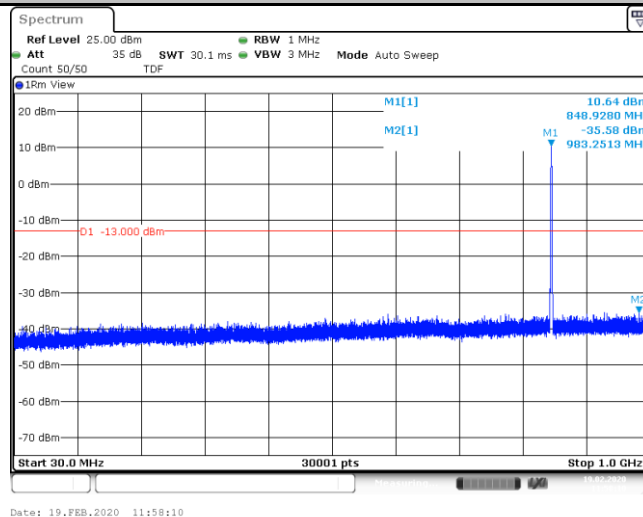
Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_5000_12000_5000~12000MHz@-47.31dBm_-13_PASS__



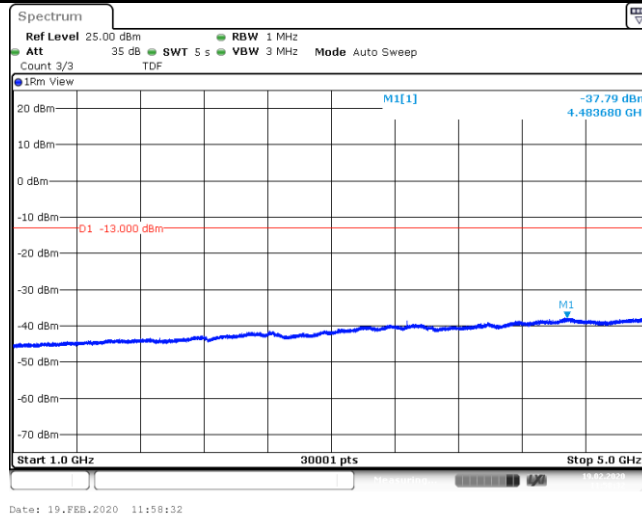
Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_12000_26500_12000~26500MHz@-41.18dBm_-13_PASS__



Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_30_1000_30~1000MHz@-35.58dBm_-13_PASS__

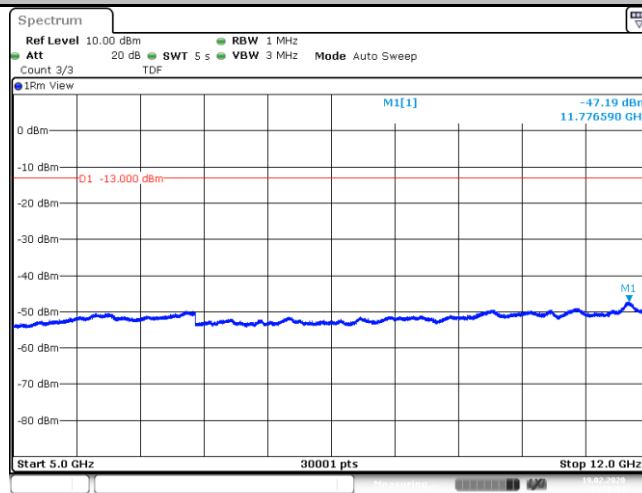


Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PASS__



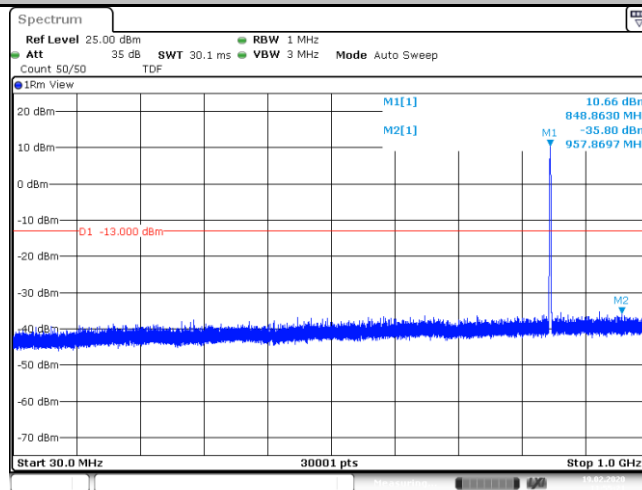
Date: 19.FEB.2020 11:58:32

Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_5000_12000_5000~12000MHz@-47.19dBm_-13_PASS__



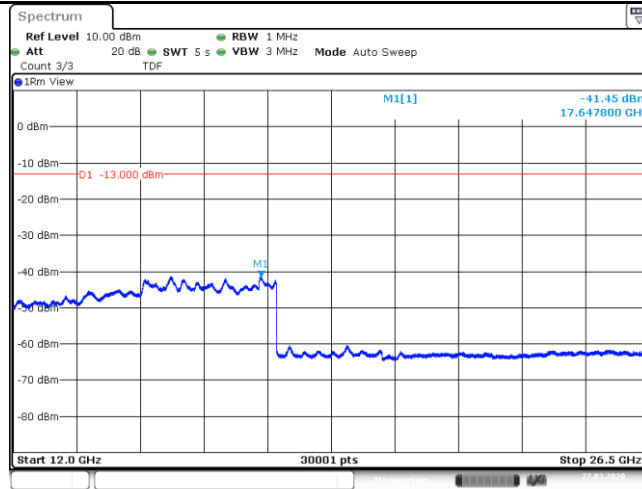
Date: 19.FEB.2020 11:58:54

Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_30_1000_30~1000MHz@-35.8dBm_-13_PASS__



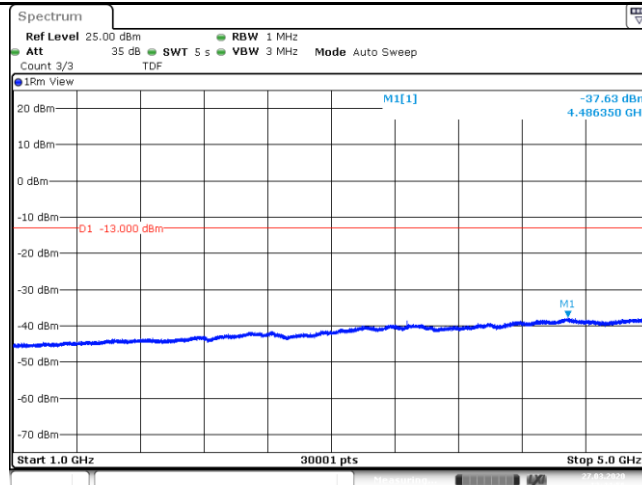
Date: 19.FEB.2020 11:55:21

Band5_Stand-Alone_NaN_QPSK_20401_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.45dBm_-13_PA
SS



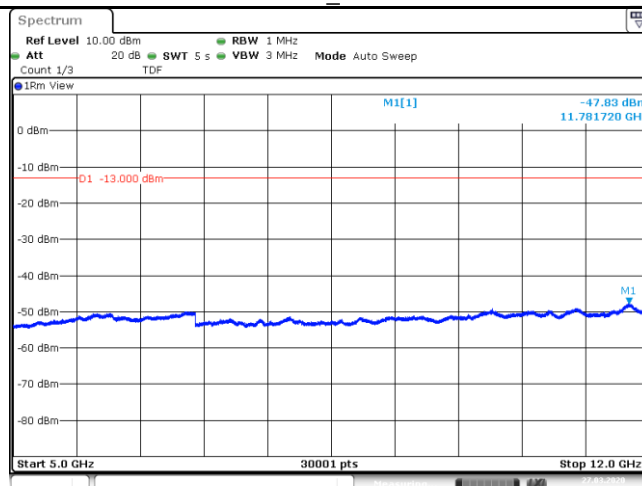
Date: 27.MAR.2020 13:47:31

Band5_Stand-Alone_NaN_QPSK_20401_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.63dBm_-13_PASS



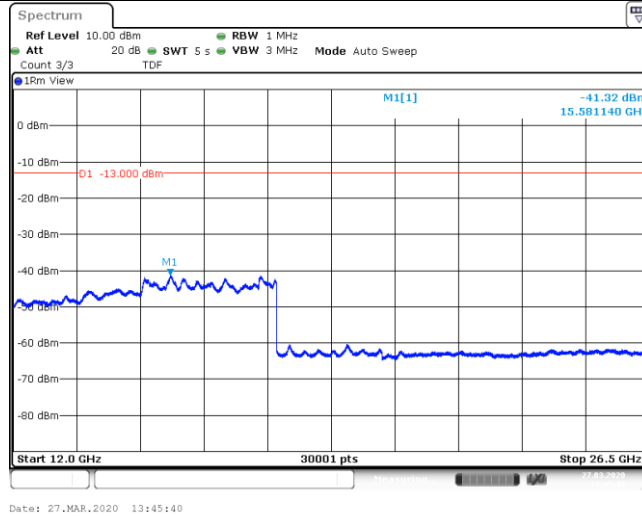
Date: 27.MAR.2020 13:44:56

Band5_Stand-Alone_NaN_QPSK_20401_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.83dBm_-13_PASS

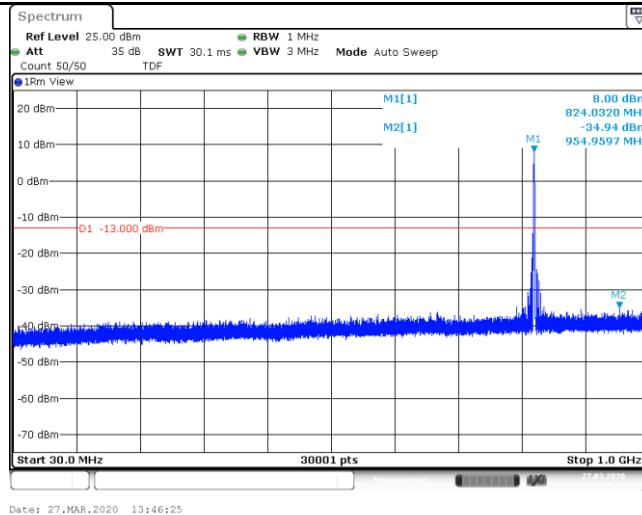


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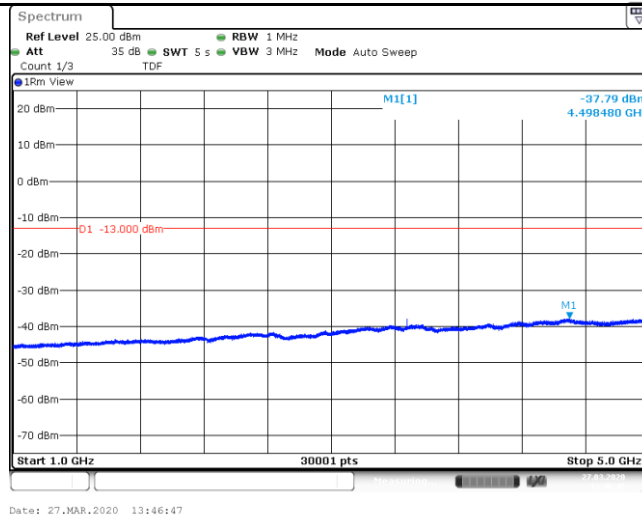
Band5_Stand-Alone_NaN_QPSK_20401_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.32dBm_-13_PAS S



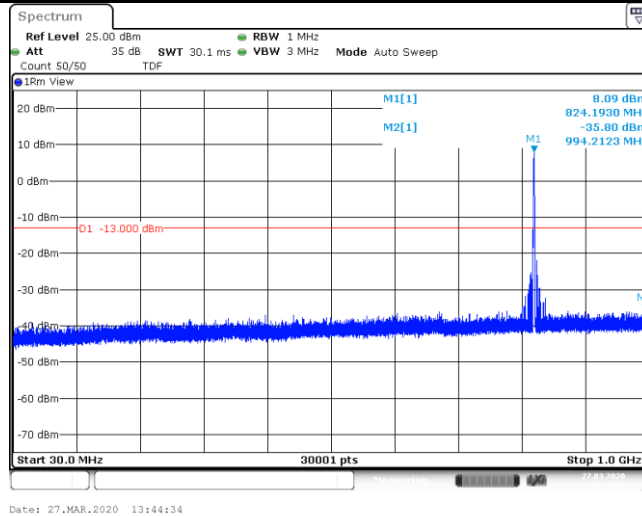
Band5_Stand-Alone_NaN_QPSK_20401_1@47_3.75kHz_30_1000_30~1000MHz@-34.94dBm_-13_PASS



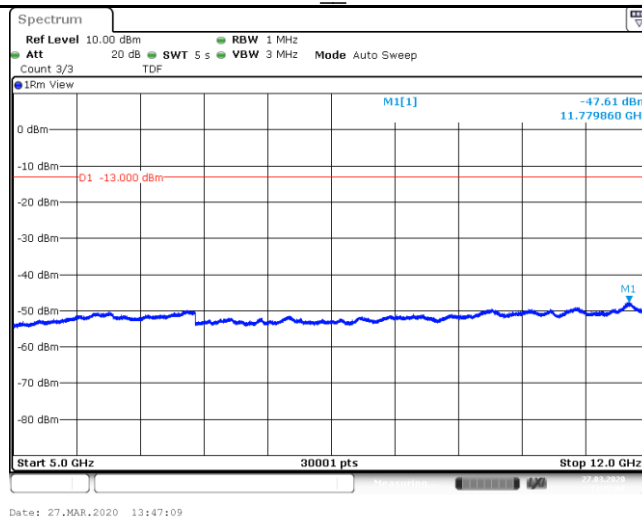
Band5_Stand-Alone_NaN_QPSK_20401_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PASS



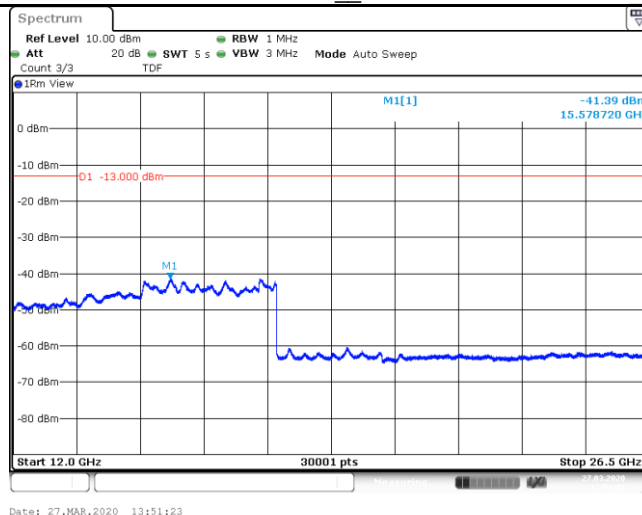
Band5_Stand-Alone_NaN_QPSK_20401_1@0_3.75kHz_30_1000_30~1000MHz@-35.8dBm_-13_PASS__



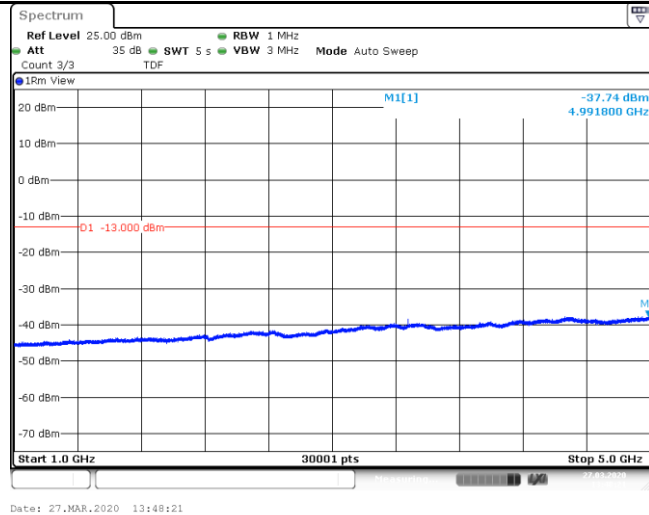
Band5_Stand-Alone_NaN_QPSK_20401_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.61dBm_-13_PASS



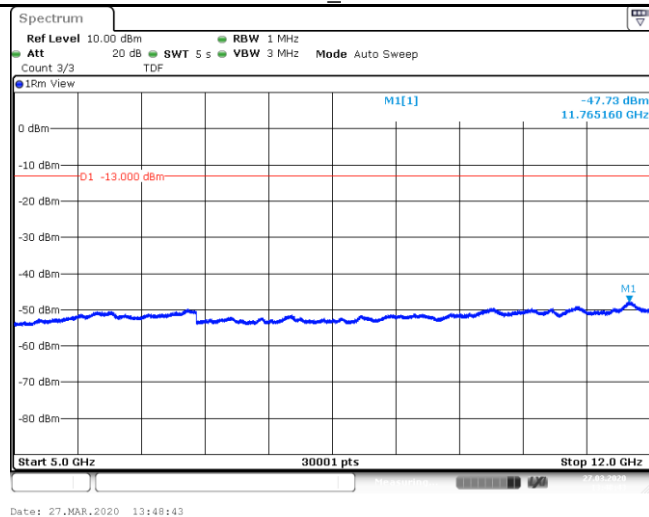
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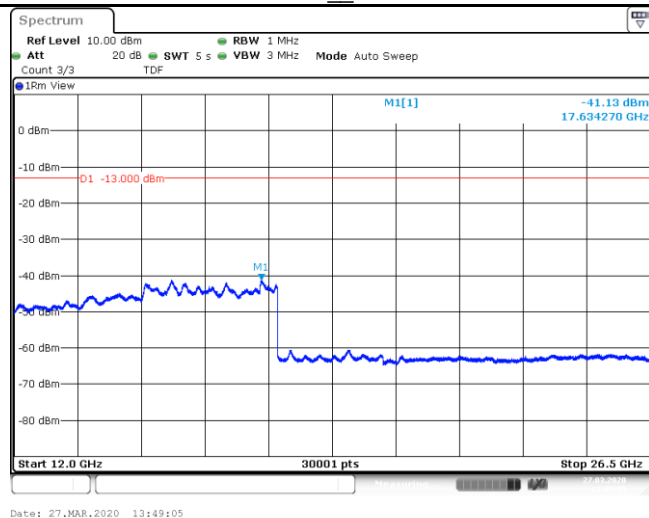
Band5_Stand-Alone_NaN_QPSK_20649_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.74dBm_-13_PASS__



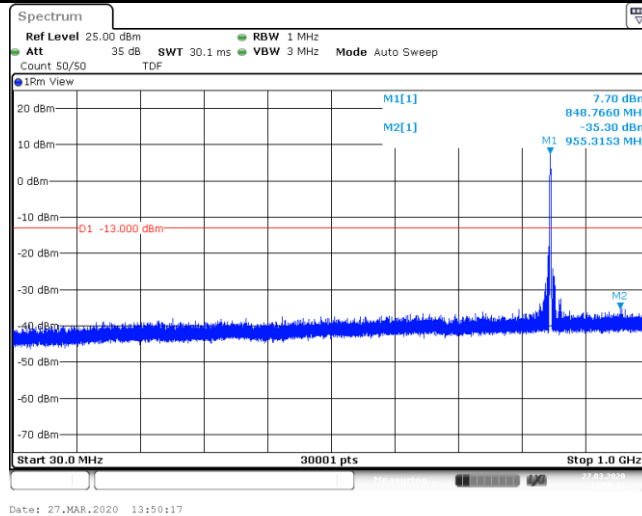
Band5_Stand-Alone_NaN_QPSK_20649_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.73dBm_-13_PASS__



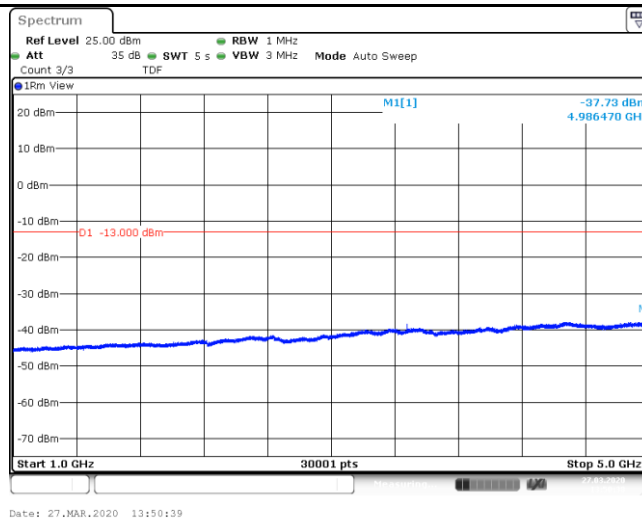
Band5_Stand-Alone_NaN_QPSK_20649_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.13dBm_-13_PAS
S__



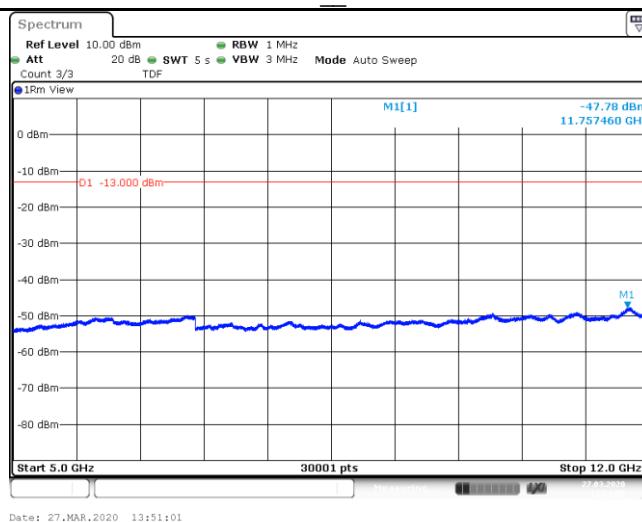
Band5_Stand-Alone_NaN_QPSK_20649_1@47_3.75kHz_30_1000_30~1000MHz@-35.3dBm_-13_PASS__



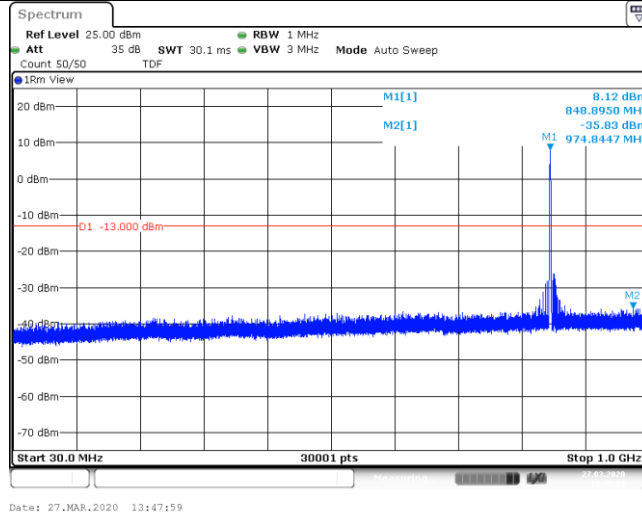
Band5_Stand-Alone_NaN_QPSK_20649_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS__



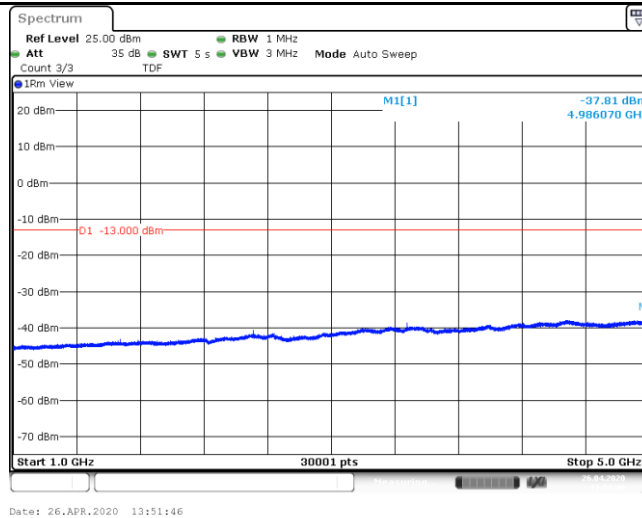
Band5_Stand-Alone_NaN_QPSK_20649_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.78dBm_-13_PASS



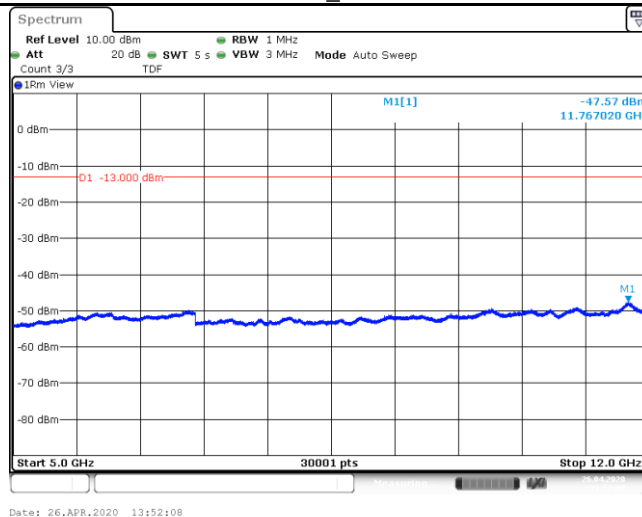
Band5_Stand-Alone_NaN_QPSK_20649_1@0_3.75kHz_30_1000_30~1000MHz@-35.83dBm_-13_PASS_



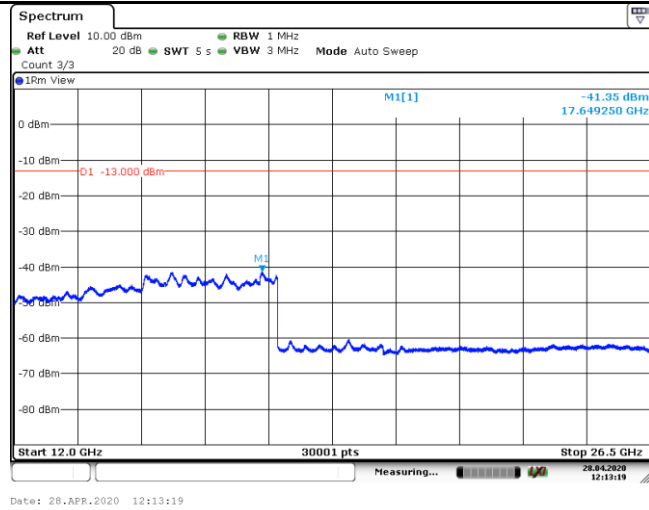
Band5_Stand-Alone_NaN_QPSK_20525_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.81dBm_-13_PASS_



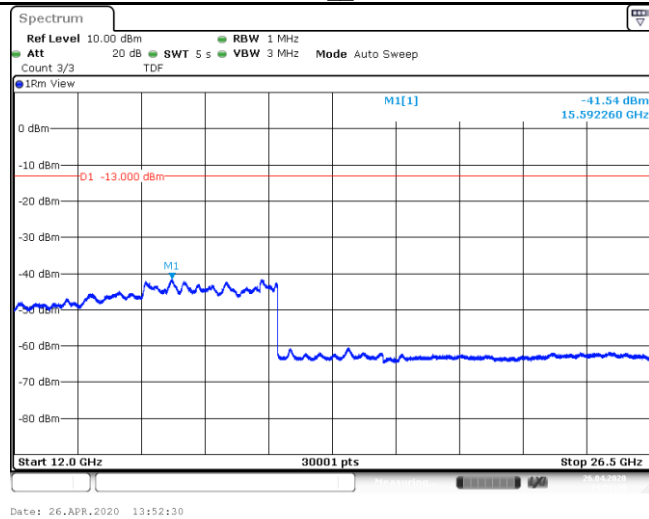
Band5_Stand-Alone_NaN_QPSK_20525_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.57dBm_-13_PASS_



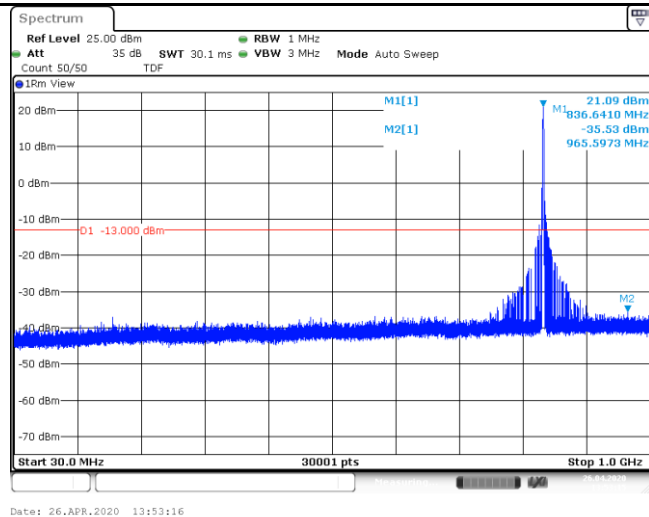
Band5_Stand-Alone_NaN_QPSK_20525_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.35dBm_-13_PA
SS__



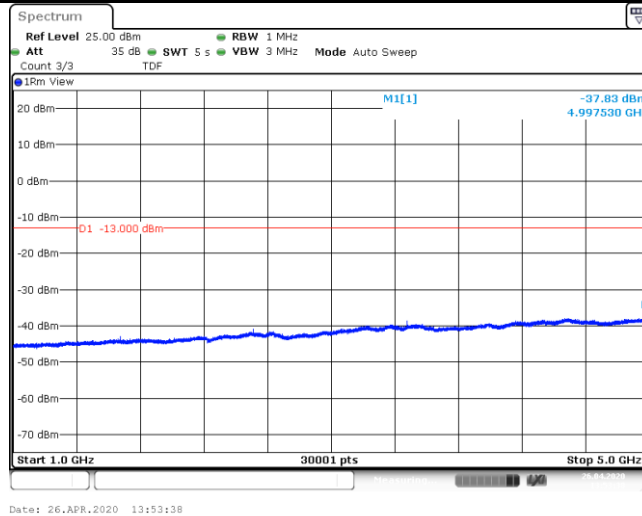
Band5_Stand-Alone_NaN_QPSK_20525_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.54dBm_-13_PAS
S__



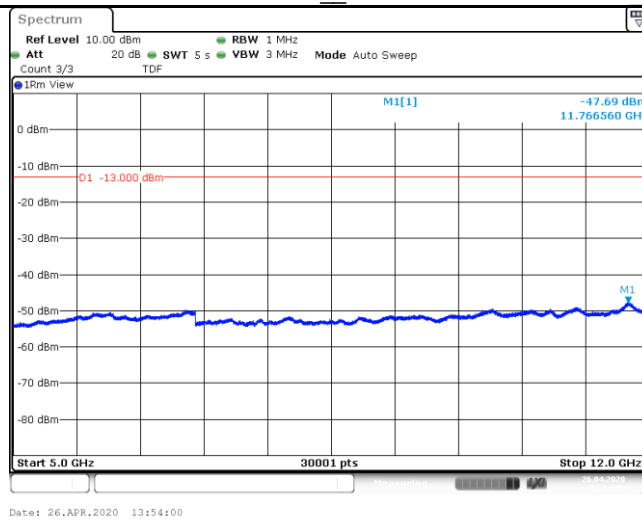
Band5_Stand-Alone_NaN_QPSK_20525_1@47_3.75kHz_30_1000_30~1000MHz@-35.53dBm_-13_PASS__



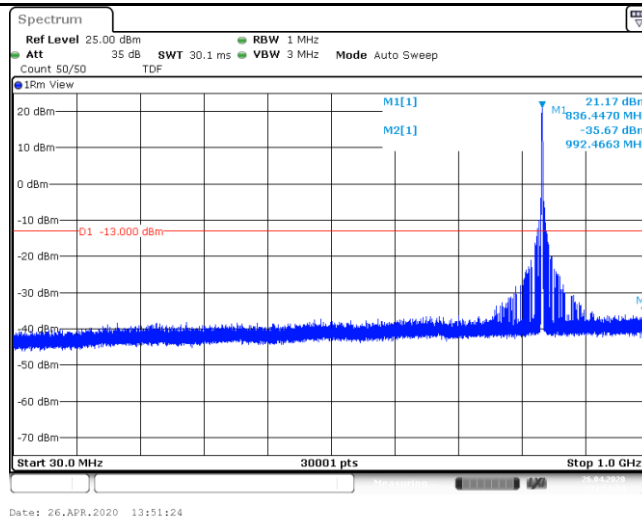
Band5_Stand-Alone_NaN_QPSK_20525_1@47_3.75kHz_1000_5000_1000-5000MHz@-37.83dBm_-13_PASS__



Band5_Stand-Alone_NaN_QPSK_20525_1@47_3.75kHz_5000_12000_5000-12000MHz@-47.69dBm_-13_PASS



Band5_Stand-Alone_NaN_QPSK_20525_1@0_3.75kHz_30_1000_30-1000MHz@-35.67dBm_-13_PASS__



Appendix C.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
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	HV	NT	-17.72	-0.021184	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	LV	NT	-20.51	-0.024519	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	NT	-16.48	-0.019701	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	HV	NT	-16.51	-0.019737	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	LV	NT	-17.44	-0.020849	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	NT	-25.29	-0.030233	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	HV	NT	-7.80	-0.009325	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	LV	NT	-8.04	-0.009611	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	NT	-8.14	-0.009731	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	HV	NT	-8.38	-0.010018	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	LV	NT	-8.37	-0.010006	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	NT	-10.43	-0.012469	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-40	-14.02	-0.016760	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-30	-14.73	-0.017609	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-20	-17.04	-0.020371	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-10	-16.08	-0.019223	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	0	-17.17	-0.020526	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	10	-13.62	-0.016282	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	20	-25.05	-0.029946	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	30	-15.35	-0.018350	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	40	-12.52	-0.014967	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	50	-14.22	-0.016999	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	60	-15.16	-0.018123	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	70	-14.68	-0.017549	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-40	-16.85	-0.020143	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	85	-18.15	-0.021698	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	85	-12.66	-0.015134	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-30	-15.34	-0.018338	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-20	-19.05	-0.022773	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-10	-14.93	-0.017848	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	0	-17.82	-0.021303	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	10	-15.35	-0.018350	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	20	-14.88	-0.017788	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	30	-14.78	-0.017669	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	40	-15.95	-0.019068	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	50	-13.45	-0.016079	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	60	-14.61	-0.017466	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	70	-14.46	-0.017286	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	80	-13.42	-0.016043	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	80	-15.61	-0.018661	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-40	-5.28	-0.006312	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-30	-8.75	-0.010460	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-20	-8.17	-0.009767	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-10	-6.94	-0.008296	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	0	-7.14	-0.008536	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	10	-7.70	-0.009205	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	20	-6.54	-0.007818	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	30	-6.94	-0.008296	±2.5	PASS

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Produkte
Products

Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	40	-6.51	-0.007782	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	50	-7.18	-0.008583	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	60	-5.82	-0.006958	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	70	-7.55	-0.009026	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-40	-7.67	-0.009169	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	85	-6.37	-0.007615	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	85	-6.11	-0.007304	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-30	-9.21	-0.011010	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-20	-5.35	-0.006396	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-10	-7.02	-0.008392	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	0	-6.41	-0.007663	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	10	-7.52	-0.008990	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	20	-5.56	-0.006647	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	30	-8.21	-0.009815	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	40	-7.18	-0.008583	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	50	-6.54	-0.007818	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	60	-7.20	-0.008607	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	70	-6.81	-0.008141	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	80	-5.84	-0.006981	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	80	-4.96	-0.005929	±2.5	PASS