

Appendix B: Test Results of Band 4 for NB-IoT operation

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

Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result			Limit (watts)	Verdict
							dBm	dBm	Watts		
Band4	Stand-Alone	NaN	QPSK	19951	1@0	15kHz	11.34	13.48	0.022	1	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@11	15kHz	11.25	13.39	0.022	1	PASS
Band4	Stand-Alone	NaN	QPSK	19951	3@3	15kHz	11.36	13.50	0.022	1	PASS
Band4	Stand-Alone	NaN	QPSK	19952	3@3	15kHz	23.89	26.03	0.401	1	PASS
Band4	Stand-Alone	NaN	QPSK	19952	1@11	15kHz	21.33	23.47	0.222	1	PASS
Band4	Stand-Alone	NaN	QPSK	19952	1@0	15kHz	21.38	23.52	0.225	1	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	22.94	25.08	0.322	1	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	22.98	25.12	0.325	1	PASS
Band4	Stand-Alone	NaN	QPSK	20175	3@3	15kHz	23.01	25.15	0.327	1	PASS
Band4	Stand-Alone	NaN	QPSK	20398	1@0	15kHz	21.56	23.70	0.234	1	PASS
Band4	Stand-Alone	NaN	QPSK	20398	3@3	15kHz	24.07	26.21	0.418	1	PASS
Band4	Stand-Alone	NaN	QPSK	20398	1@11	15kHz	21.5	23.64	0.231	1	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@11	15kHz	11.46	13.60	0.023	1	PASS
Band4	Stand-Alone	NaN	QPSK	20399	3@3	15kHz	11.53	13.67	0.023	1	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	15kHz	11.53	13.67	0.023	1	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@11	15kHz	11.09	13.23	0.021	1	PASS
Band4	Stand-Alone	NaN	BPSK	19951	3@3	15kHz	11.37	13.51	0.022	1	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	11.14	13.28	0.021	1	PASS
Band4	Stand-Alone	NaN	BPSK	19952	1@0	15kHz	21.10	23.24	0.211	1	PASS
Band4	Stand-Alone	NaN	BPSK	19952	1@11	15kHz	21.15	23.29	0.213	1	PASS
Band4	Stand-Alone	NaN	BPSK	19952	3@3	15kHz	21.62	23.76	0.238	1	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@11	15kHz	22.67	24.81	0.303	1	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	22.79	24.93	0.311	1	PASS
Band4	Stand-Alone	NaN	BPSK	20175	3@3	15kHz	23.00	25.14	0.327	1	PASS
Band4	Stand-Alone	NaN	BPSK	20398	1@0	15kHz	21.35	23.49	0.223	1	PASS
Band4	Stand-Alone	NaN	BPSK	20398	1@11	15kHz	21.28	23.42	0.220	1	PASS
Band4	Stand-Alone	NaN	BPSK	20398	3@3	15kHz	22.13	24.27	0.267	1	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@11	15kHz	11.37	13.51	0.022	1	PASS
Band4	Stand-Alone	NaN	BPSK	20399	3@3	15kHz	11.55	13.69	0.023	1	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	11.38	13.52	0.022	1	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	6.36	8.50	0.007	1	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	6.40	8.54	0.007	1	PASS
Band4	Stand-Alone	NaN	QPSK	19952	1@0	3.75kHz	24.58	26.72	0.470	1	PASS
Band4	Stand-Alone	NaN	QPSK	19952	1@47	3.75kHz	24.40	26.54	0.451	1	PASS
Band4	Stand-Alone	NaN	QPSK	20398	1@47	3.75kHz	24.59	26.73	0.471	1	PASS
Band4	Stand-Alone	NaN	QPSK	20398	1@0	3.75kHz	24.61	26.75	0.473	1	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	6.67	8.81	0.008	1	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	6.68	8.82	0.008	1	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@47	3.75kHz	6.39	8.53	0.007	1	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	3.75kHz	6.43	8.57	0.007	1	PASS
Band4	Stand-Alone	NaN	BPSK	19952	1@47	3.75kHz	24.47	26.61	0.458	1	PASS
Band4	Stand-Alone	NaN	BPSK	19952	1@0	3.75kHz	24.52	26.66	0.463	1	PASS
Band4	Stand-Alone	NaN	BPSK	20398	1@47	3.75kHz	24.53	26.67	0.465	1	PASS
Band4	Stand-Alone	NaN	BPSK	20398	1@0	3.75kHz	24.53	26.67	0.465	1	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@47	3.75kHz	6.59	8.73	0.007	1	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	3.75kHz	6.63	8.77	0.008	1	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	24.31	26.45	0.442	1	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	24.29	26.43	0.440	1	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@47	3.75kHz	24.39	26.53	0.450	1	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	3.75kHz	24.42	26.56	0.453	1	PASS

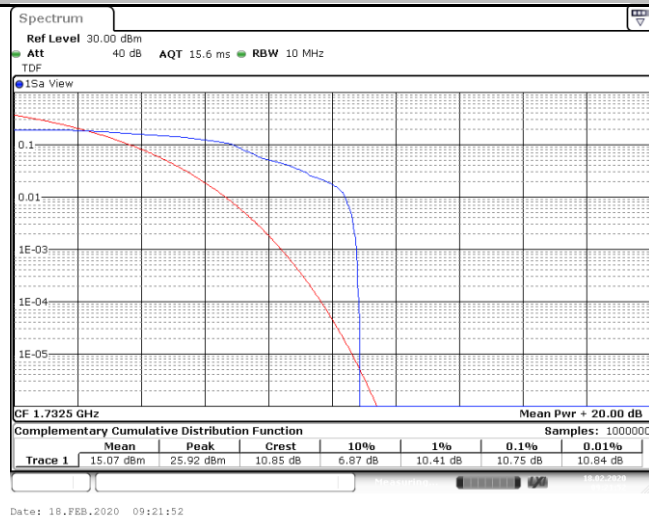
Appendix B.2: Peak-to-Average Ratio (CCDF) for NB

Test Result

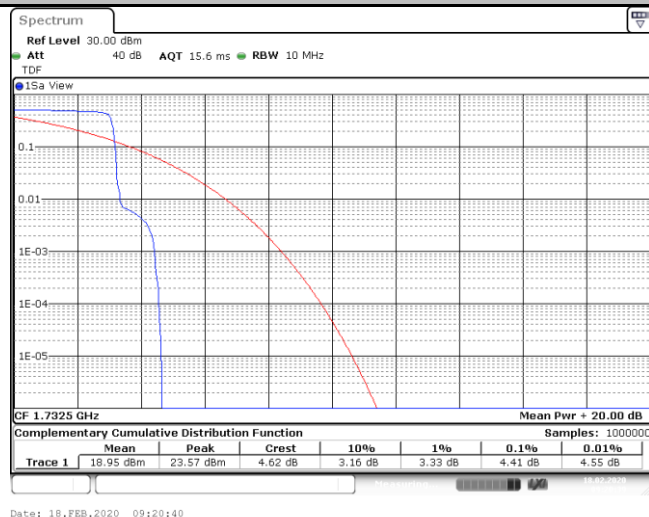
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band4	Stand-Alone	NaN	QPSK	20175	3@3	15kHz	10.75	<=13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	4.41	<=13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	6.78	<=13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	3@3	15kHz	9.8	<=13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@11	15kHz	3.65	<=13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	8.46	<=13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	1.77	<=13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	1.86	<=13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@47	3.75kHz	5.01	<=13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	3.75kHz	3.57	<=13	PASS

Test Graphs

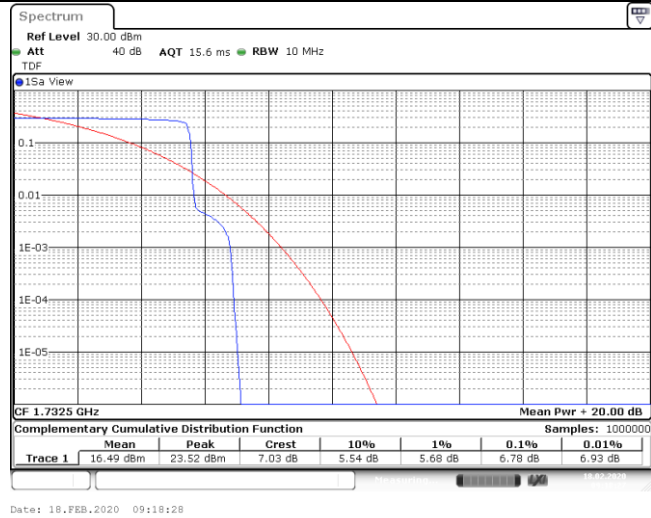
Band4_Stand-Alone_NaN_QPSK_20175_3@3_15kHz_10.75_<=13_PASS__



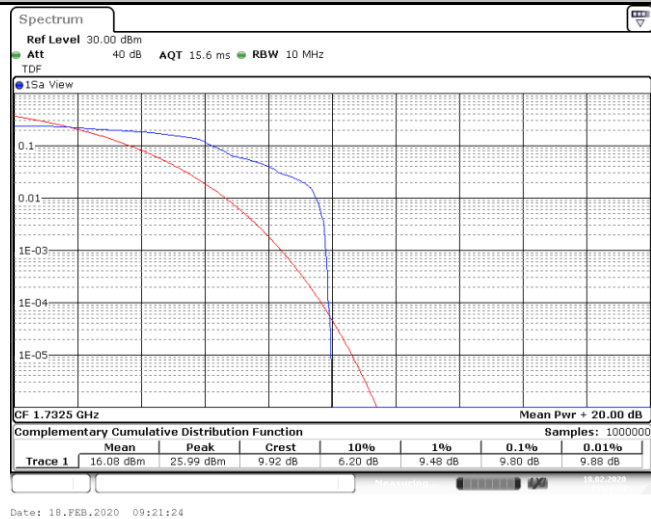
Band4_Stand-Alone_NaN_QPSK_20175_1@11_15kHz_4.41_<=13_PASS__



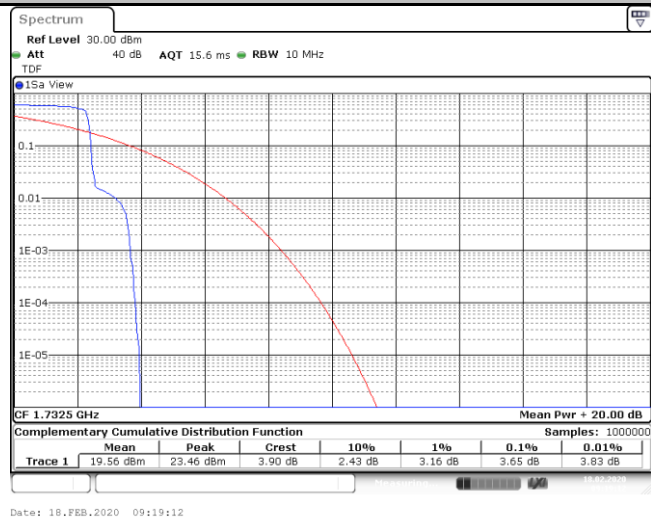
Band4_Stand-Alone_NaN_QPSK_20175_1@0_15kHz_6.78_<=13_PASS__



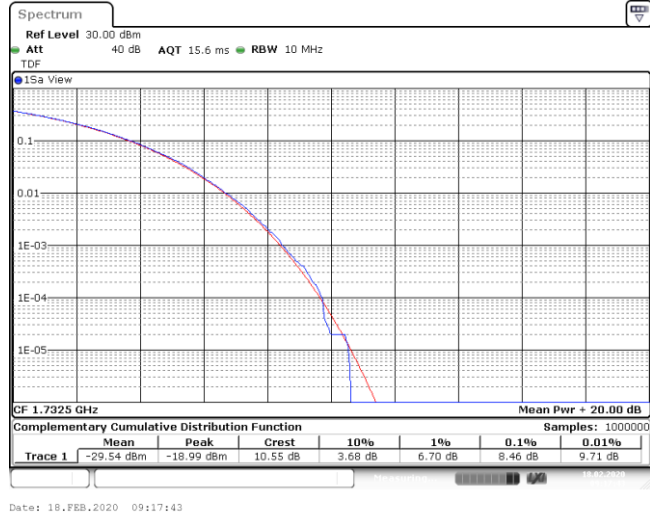
Band4_Stand-Alone_NaN_BPSK_20175_3@3_15kHz_9.8_<=13_PASS__



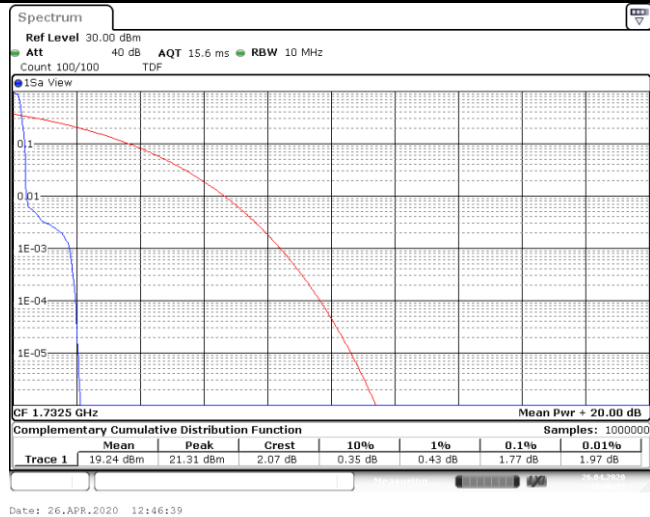
Band4_Stand-Alone_NaN_BPSK_20175_1@11_15kHz_3.65_<=13_PASS__



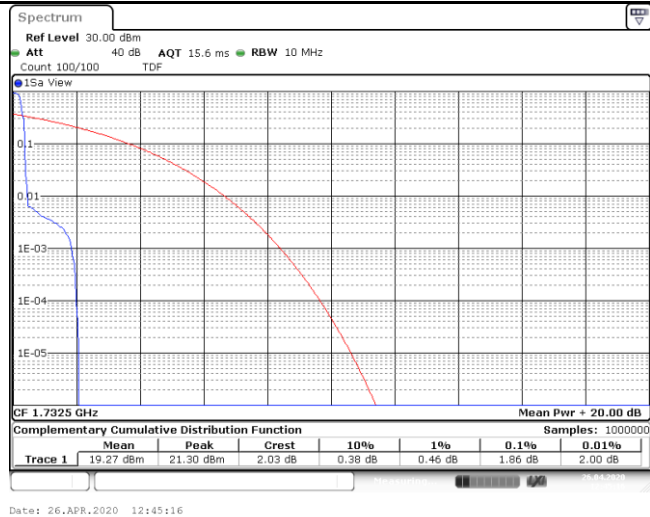
Band4_Stand-Alone_NaN_BPSK_20175_1@0_15kHz_8.46_<=13_PASS__



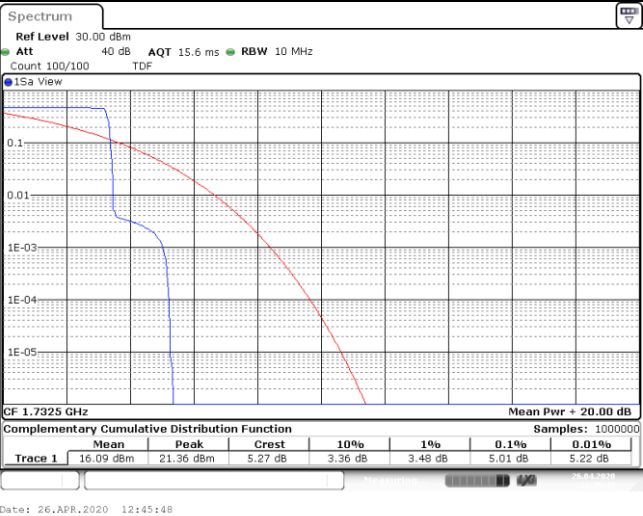
Band4_Stand-Alone_NaN_QPSK_20175_1@47_3.75kHz_1.77_<=13_PASS__



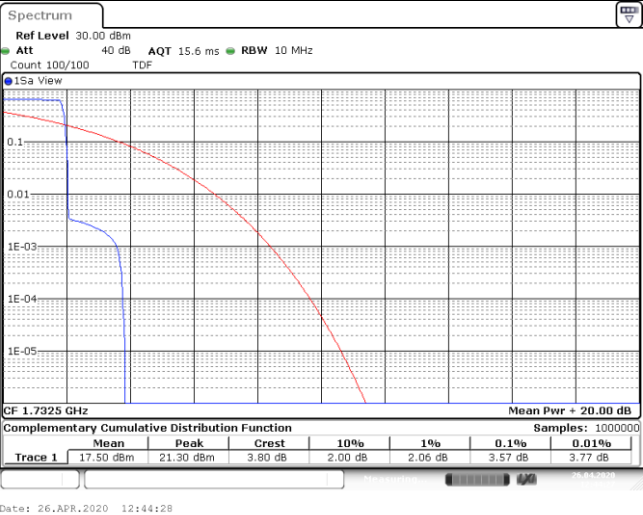
Band4_Stand-Alone_NaN_QPSK_20175_1@0_3.75kHz_1.86_<=13_PASS__



Band4_Stand-Alone_NaN_BPSK_20175_1@47_3.75kHz_5.01_<=13_PASS__



Band4_Stand-Alone_NaN_BPSK_20175_1@0_3.75kHz_3.57_<=13_PASS__

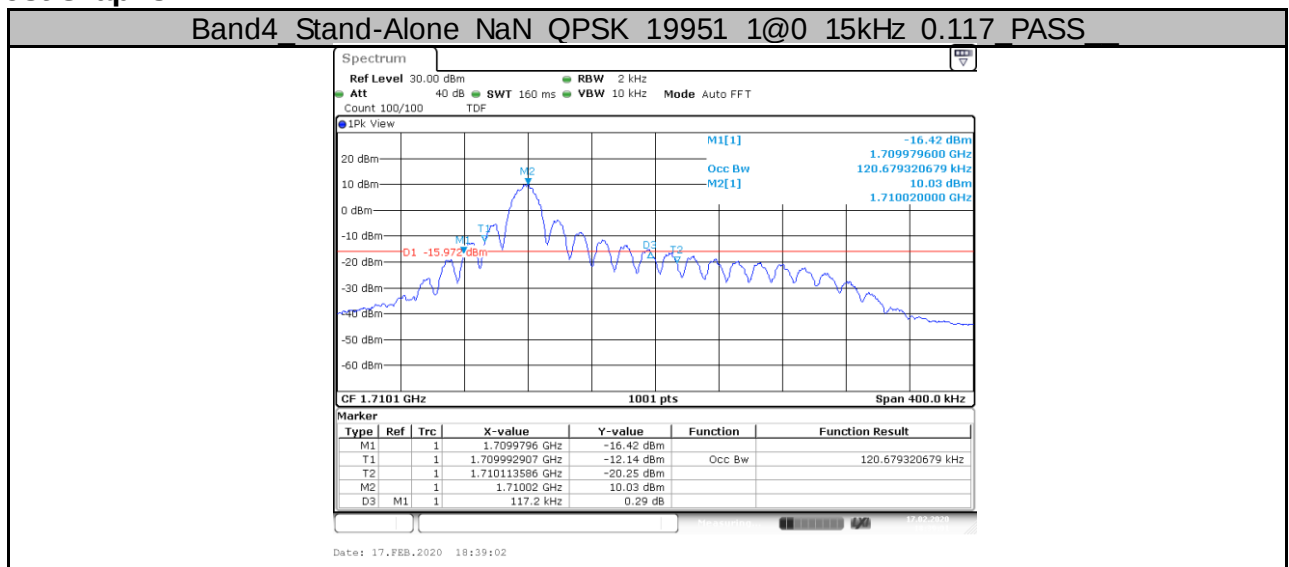


Appendix B.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

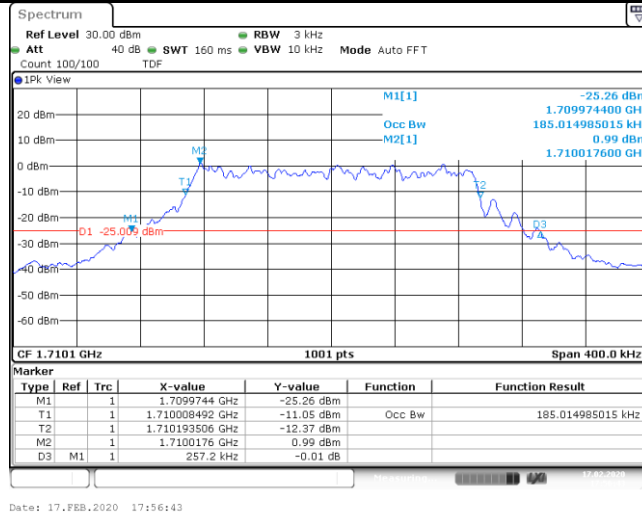
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band4	Stand-Alone	NaN	QPSK	19951	1@0	15kHz	0.117	0.121	PASS
Band4	Stand-Alone	NaN	QPSK	19951	12@0	15kHz	0.257	0.185	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	0.117	0.121	PASS
Band4	Stand-Alone	NaN	QPSK	20175	12@0	15kHz	0.251	0.185	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	15kHz	0.117	0.121	PASS
Band4	Stand-Alone	NaN	QPSK	20399	12@0	15kHz	0.250	0.185	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	0.106	0.129	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	0.107	0.129	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	0.106	0.129	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	0.038	0.052	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	0.038	0.052	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	3.75kHz	0.034	0.057	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	3.75kHz	0.036	0.056	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	0.037	0.051	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	3.75kHz	0.032	0.057	PASS

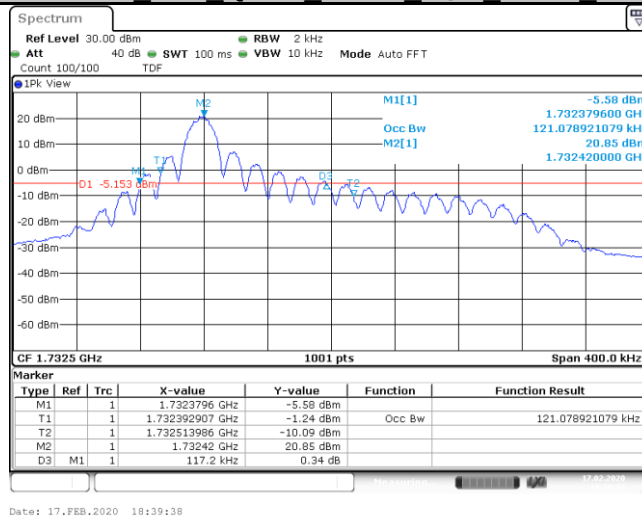
Test Graphs



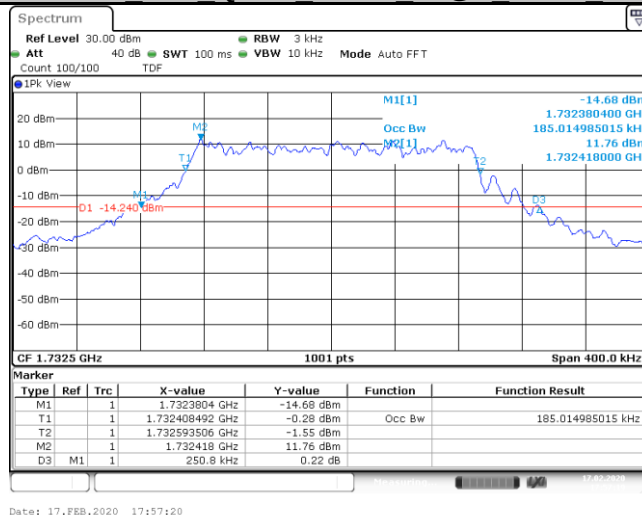
Band4 Stand-Alone NaN QPSK 19951 12@0 15kHz 0.257 PASS



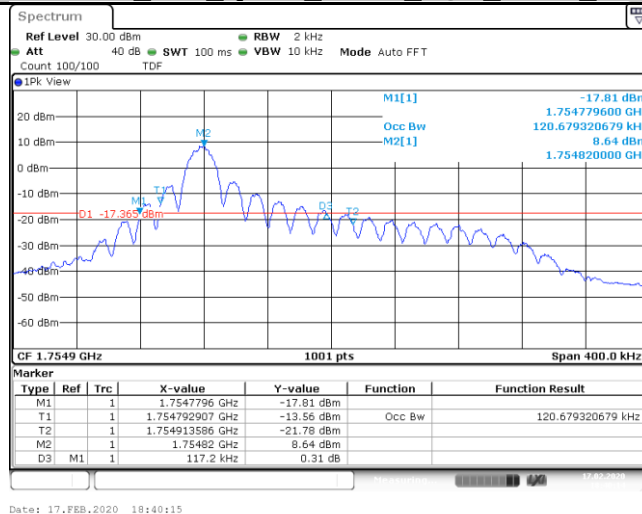
Band4 Stand-Alone NaN QPSK 20175 1@0 15kHz 0.117 PASS



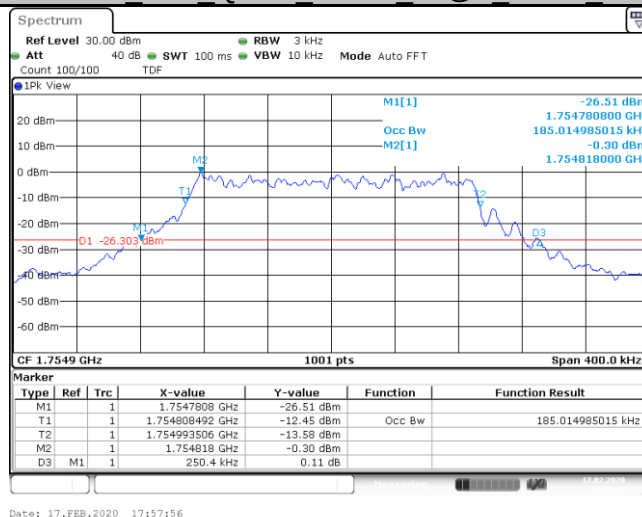
Band4 Stand-Alone NaN QPSK 20175 12@0 15kHz 0.251 PASS



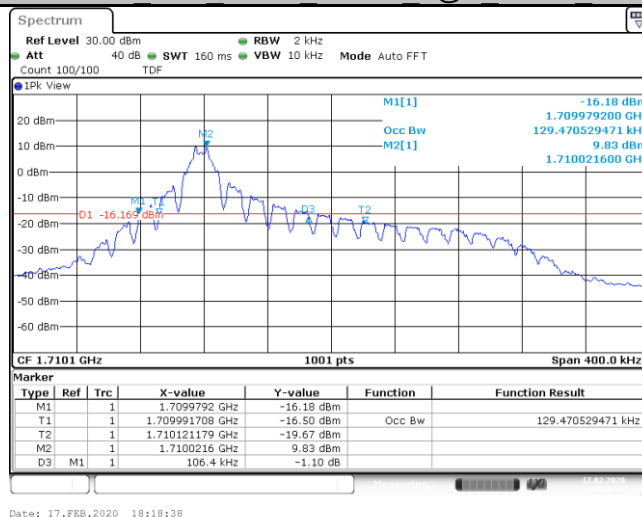
Band4 Stand-Alone NaN QPSK 20399 1@0 15kHz 0.117 PASS



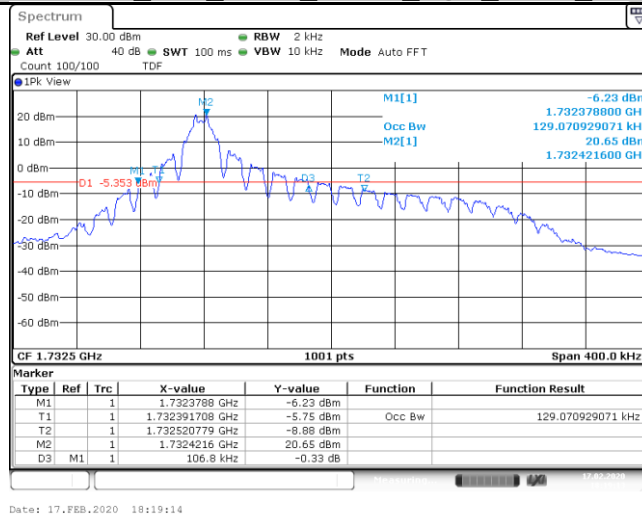
Band4 Stand-Alone NaN QPSK 20399 12@0 15kHz 0.250 PASS



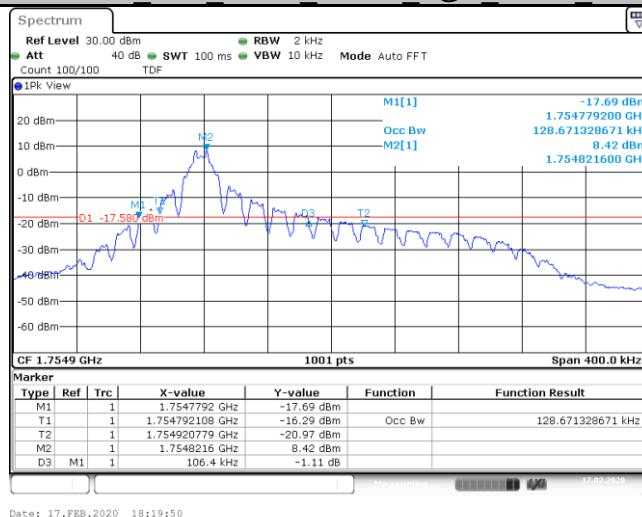
Band4 Stand-Alone NaN BPSK 19951 1@0 15kHz 0.106 PASS



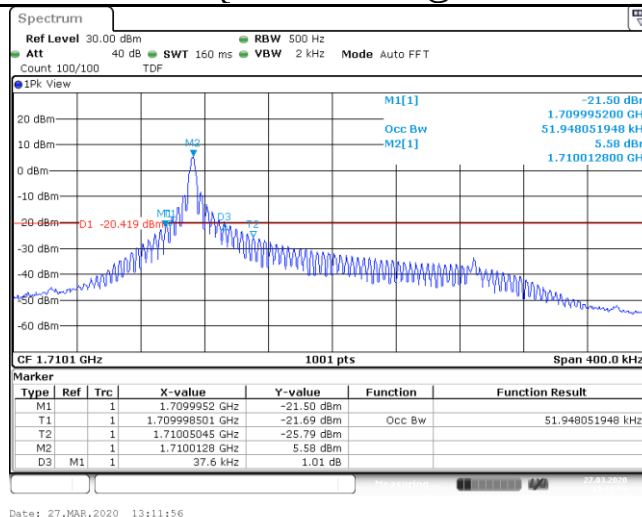
Band4 Stand-Alone NaN BPSK 20175 1@0 15kHz 0.107 PASS



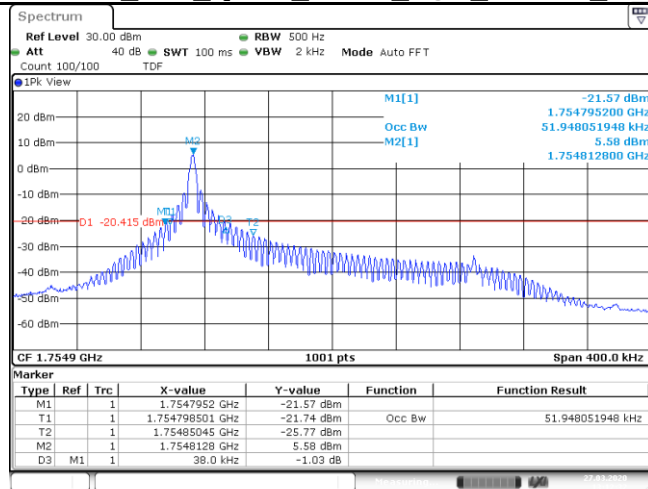
Band4 Stand-Alone NaN BPSK 20399 1@0 15kHz 0.106 PASS



Band4 Stand-Alone NaN QPSK 19951 1@0 3.75kHz 0.038 PASS

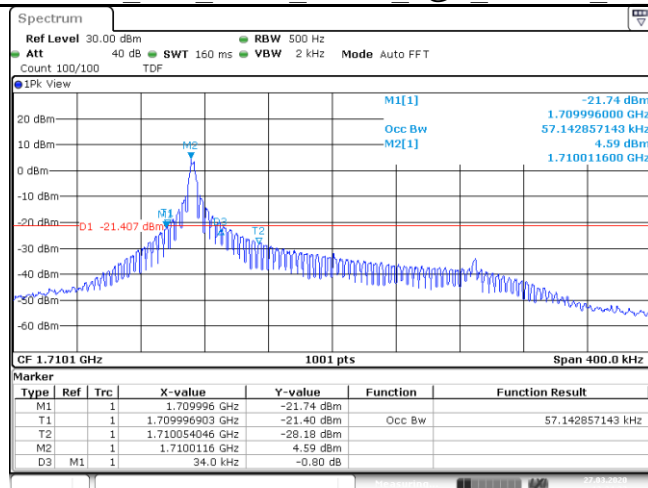


Band4 Stand-Alone NaN QPSK 20399 1@0 3.75kHz 0.038 PASS



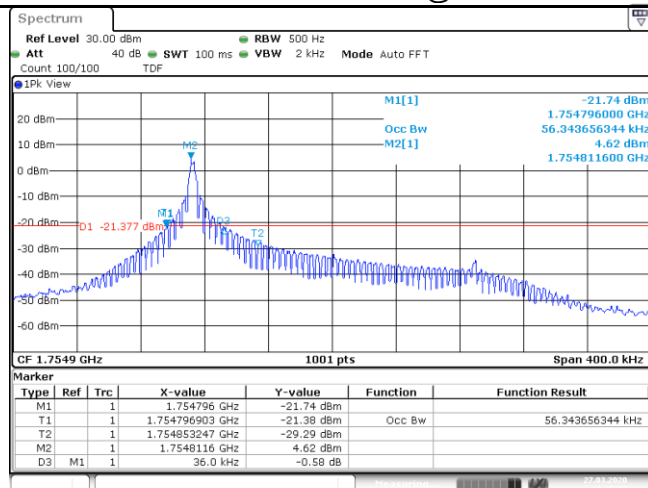
Date: 27.MAR.2020 13:12:33

Band4 Stand-Alone NaN BPSK 19951 1@0 3.75kHz 0.034 PASS



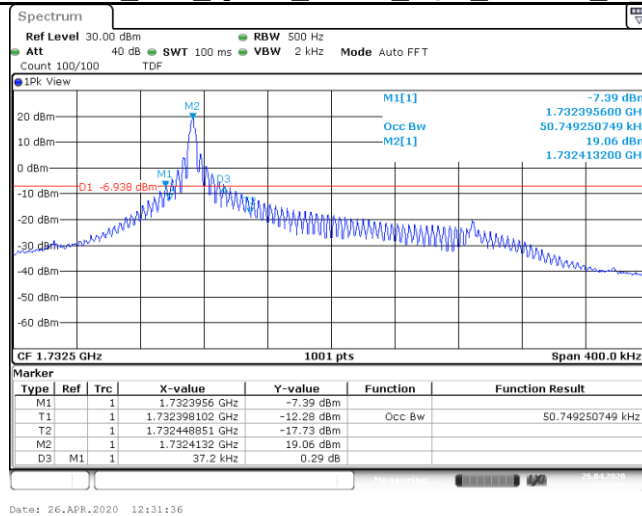
Date: 27.MAR.2020 13:24:33

Band4 Stand-Alone NaN BPSK 20399 1@0 3.75kHz 0.036 PASS

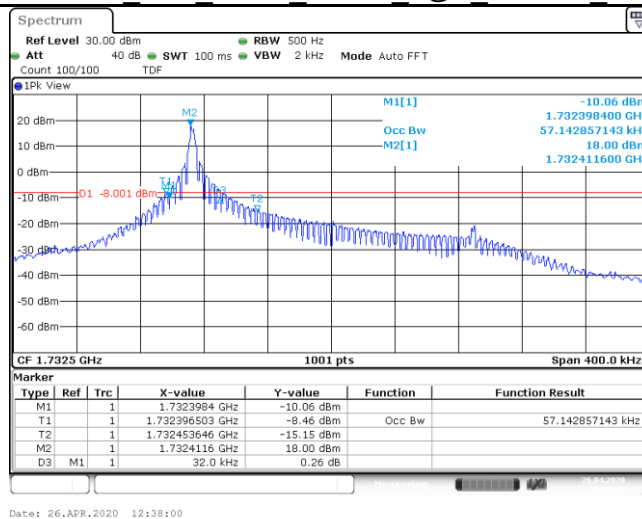


Date: 27.MAR.2020 13:25:10

Band4 Stand-Alone NaN QPSK 20175 1@0 3.75kHz 0.037 PASS



Band4 Stand-Alone NaN BPSK 20175 1@0 3.75kHz 0.032 PASS

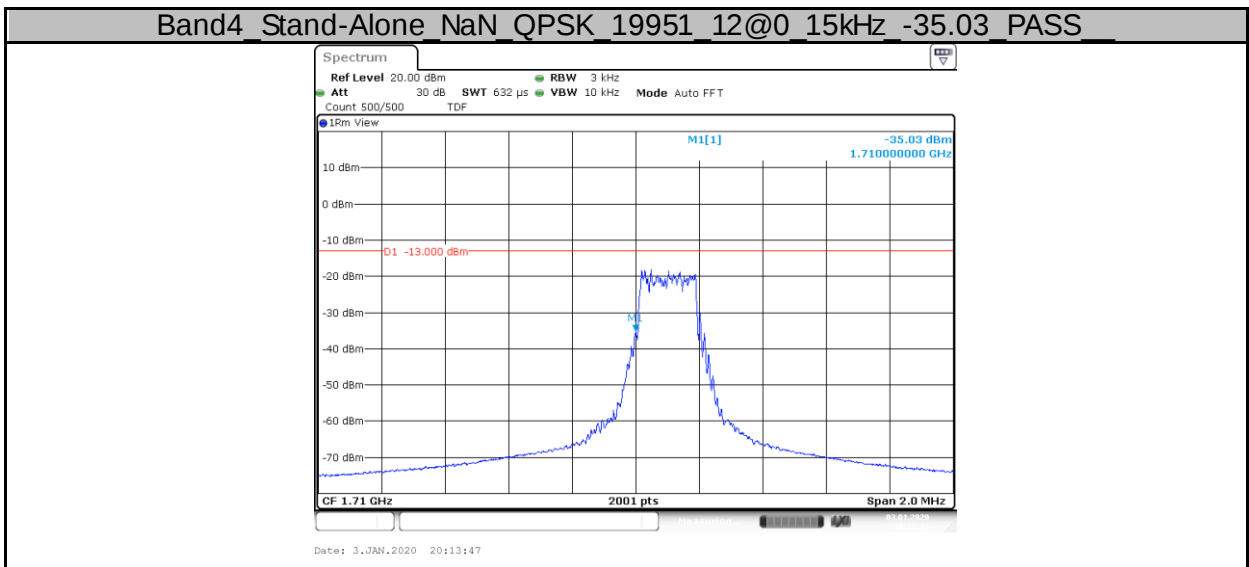


Appendix B.4: Band Edge for NB

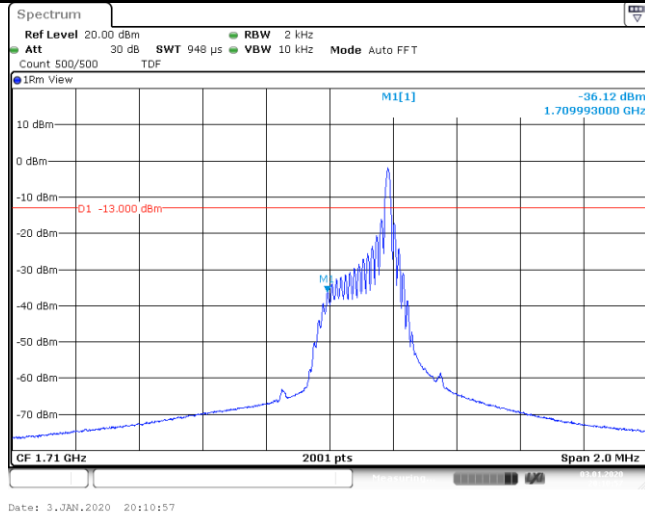
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band4	Stand-Alone	NaN	QPSK	19951	12@0	15kHz	-35.03	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@11	15kHz	-36.12	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	15kHz	-17.82	PASS
Band4	Stand-Alone	NaN	QPSK	20399	12@0	15kHz	-31.67	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@11	15kHz	-18.67	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	15kHz	-37.05	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@11	15kHz	-34.27	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	-15.20	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@11	15kHz	-16.91	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	-36.02	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	-48.86	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	-27.30	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	-27.80	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	-48.22	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@47	3.75kHz	-47.51	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	3.75kHz	-25.92	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@47	3.75kHz	-26.74	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	3.75kHz	-47.27	PASS

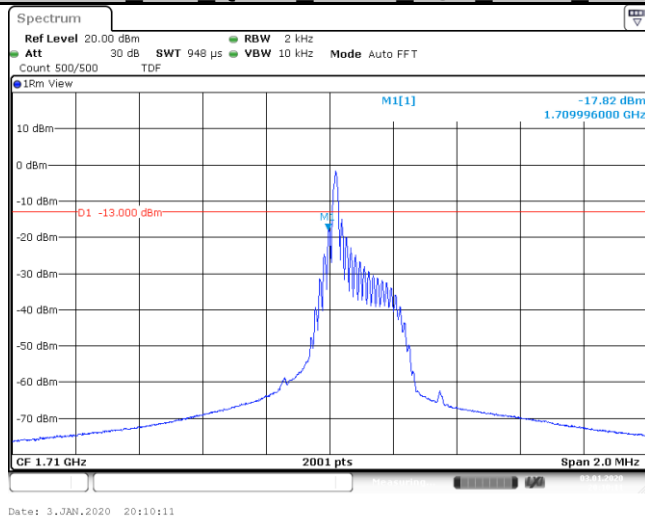
Test Graphs



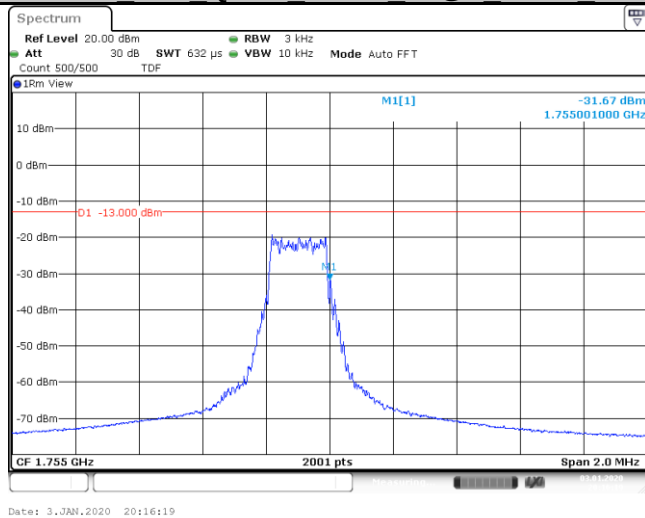
Band4 Stand-Alone NaN QPSK 19951 1@11 15kHz -36.12 PASS



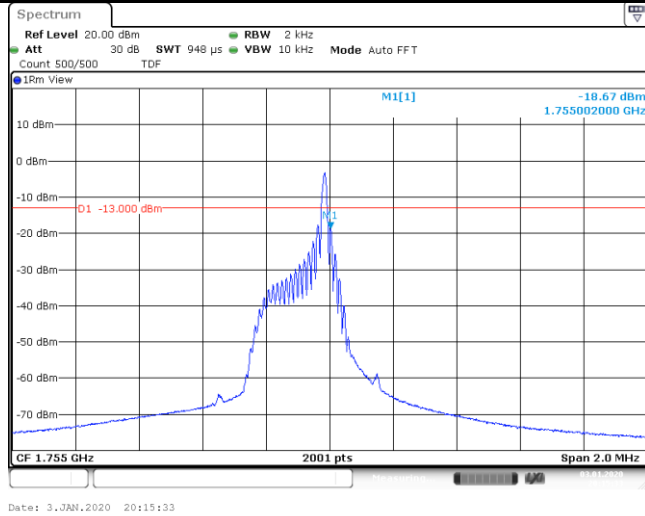
Band4 Stand-Alone NaN QPSK 19951 1@0 15kHz -17.82 PASS



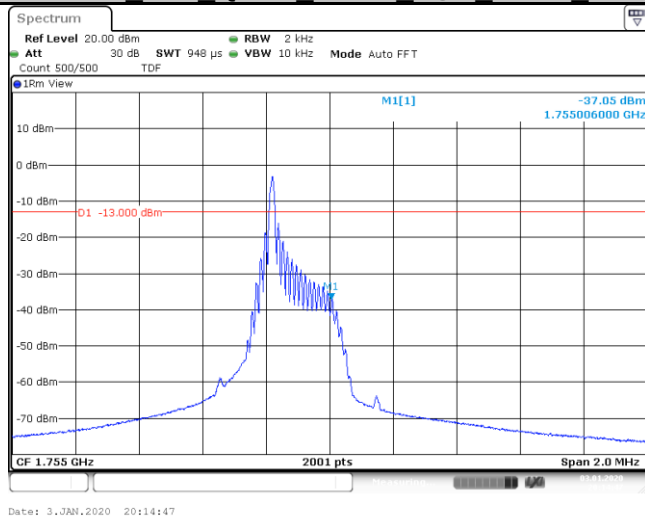
Band4 Stand-Alone NaN QPSK 20399 12@0 15kHz -31.67 PASS



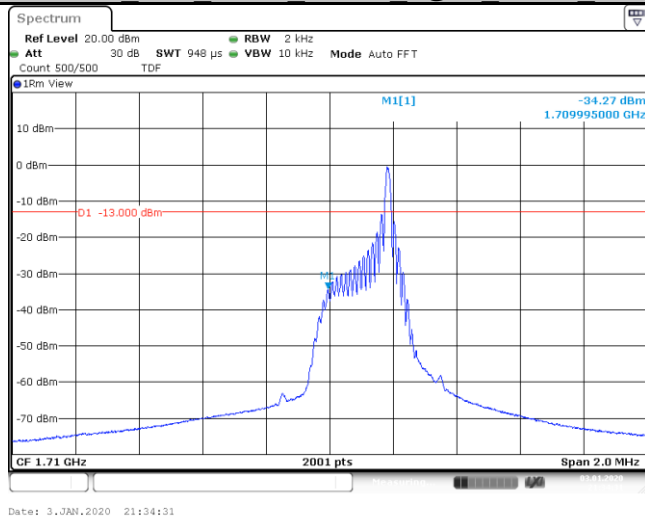
Band4 Stand-Alone NaN QPSK 20399 1@11 15kHz -18.67 PASS



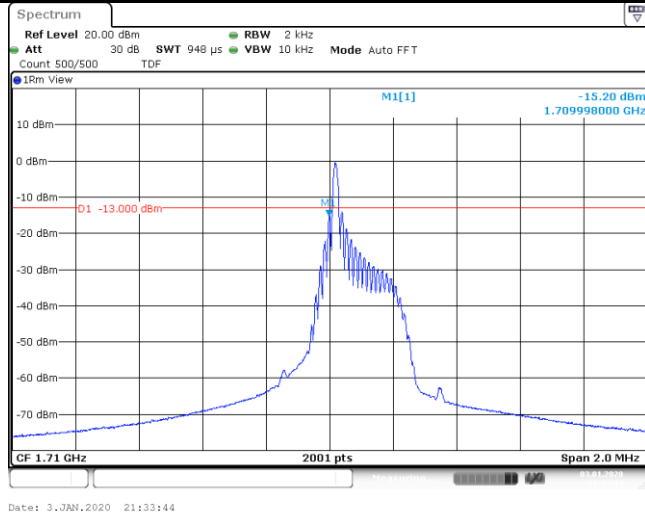
Band4 Stand-Alone NaN QPSK 20399 1@0 15kHz -37.05 PASS



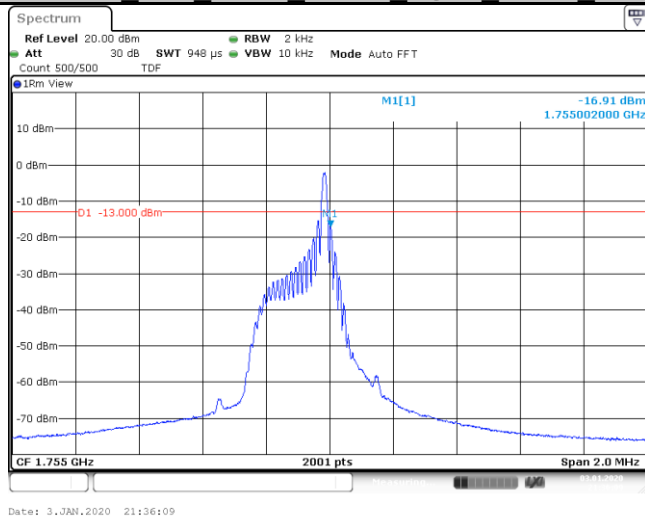
Band4 Stand-Alone NaN BPSK 19951 1@11 15kHz -34.27 PASS



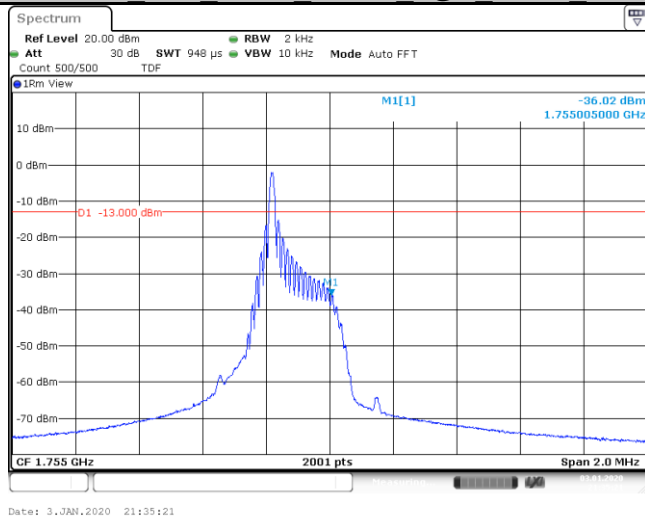
Band4 Stand-Alone NaN BPSK 19951 1@0 15kHz -15.20 PASS



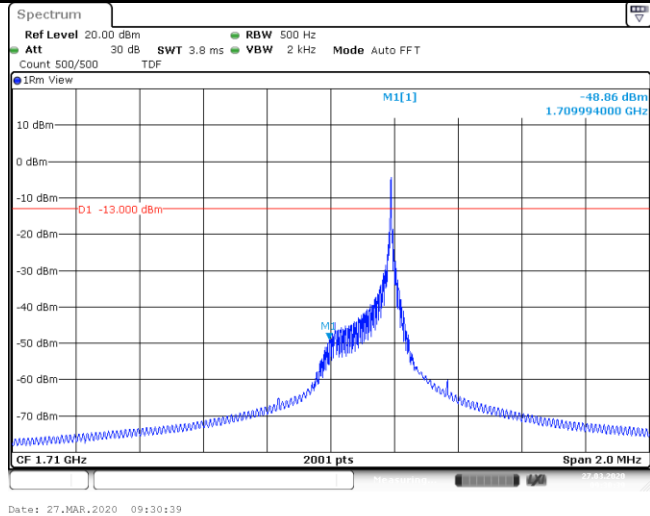
Band4 Stand-Alone NaN BPSK 20399 1@11 15kHz -16.91 PASS



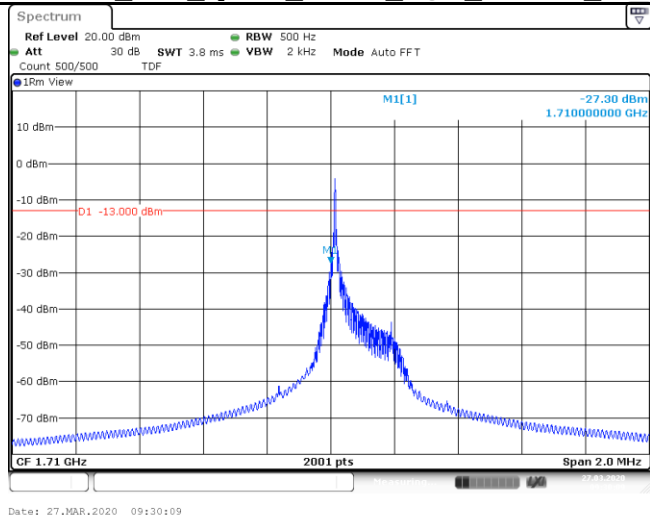
Band4 Stand-Alone NaN BPSK 20399 1@0 15kHz -36.02 PASS



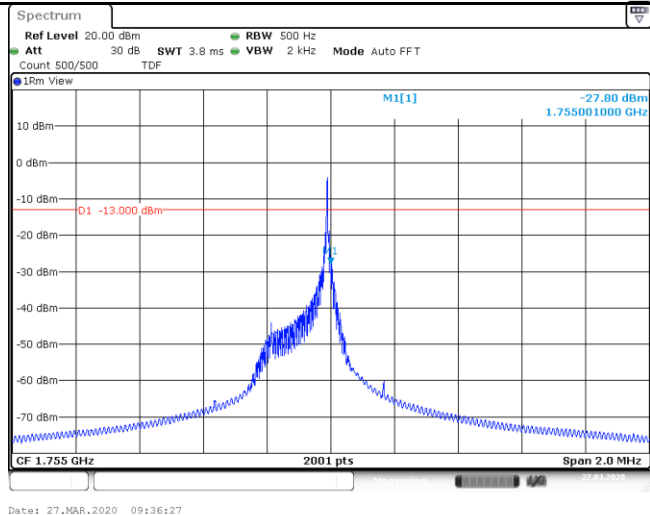
Band4 Stand-Alone NaN QPSK 19951 1@47 3.75kHz -48.86 PASS



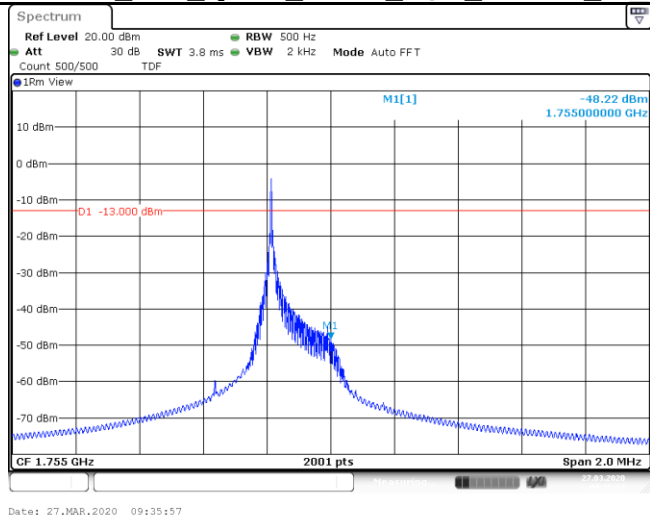
Band4 Stand-Alone NaN QPSK 19951 1@0 3.75kHz -27.30 PASS



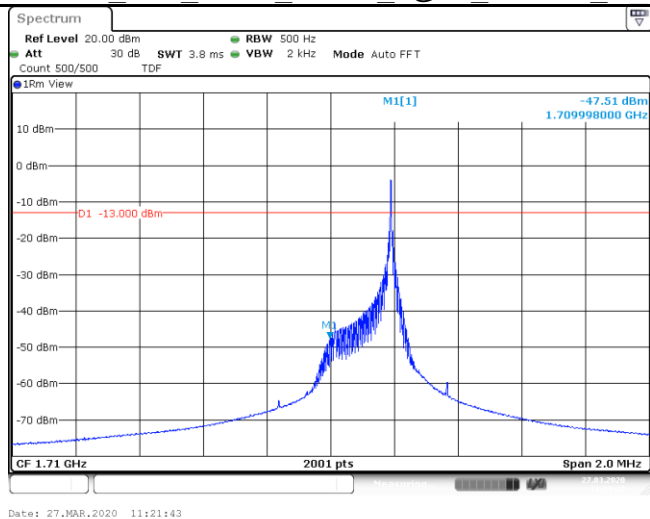
Band4 Stand-Alone NaN QPSK 20399 1@47 3.75kHz -27.80 PASS



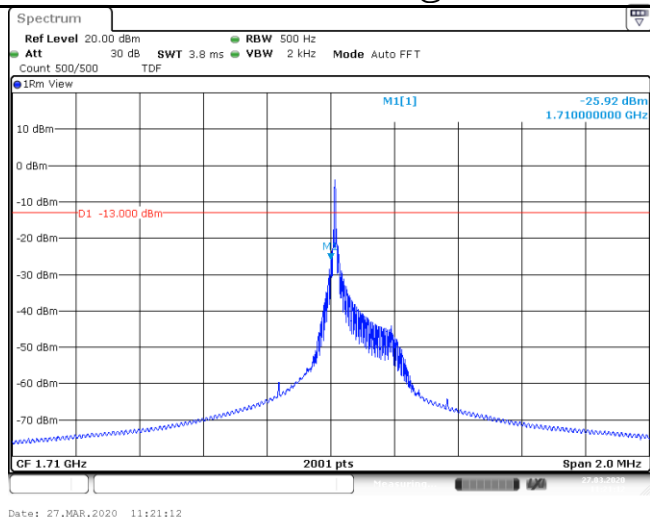
Band4 Stand-Alone NaN QPSK 20399 1@0 3.75kHz -48.22 PASS



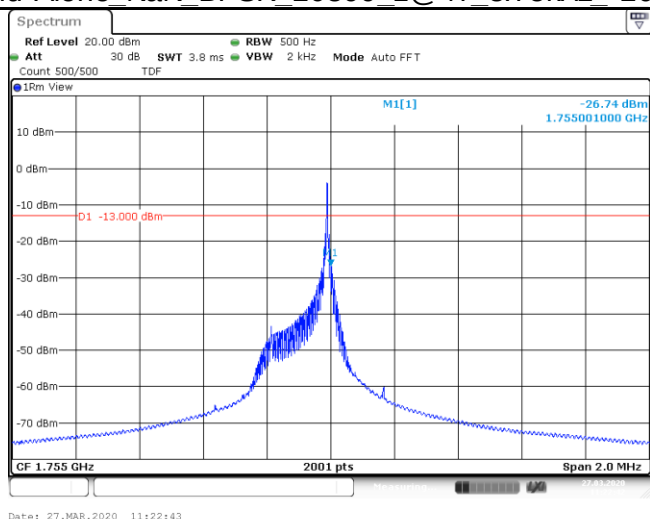
Band4 Stand-Alone NaN BPSK 19951 1@47 3.75kHz -47.51 PASS



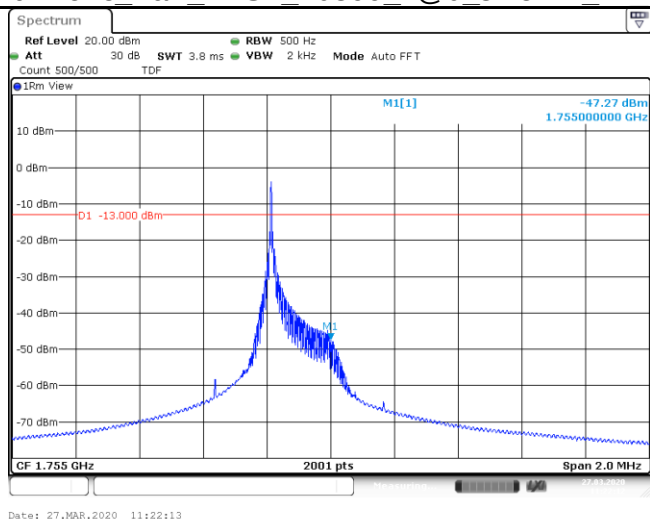
Band4 Stand-Alone NaN BPSK 19951 1@0 3.75kHz -25.92 PASS



Band4 Stand-Alone NaN BPSK 20399 1@47 3.75kHz -26.74 PASS



Band4 Stand-Alone NaN BPSK 20399 1@0 3.75kHz -47.27 PASS



Appendix B.5: Conducted Spurious Emission for NB

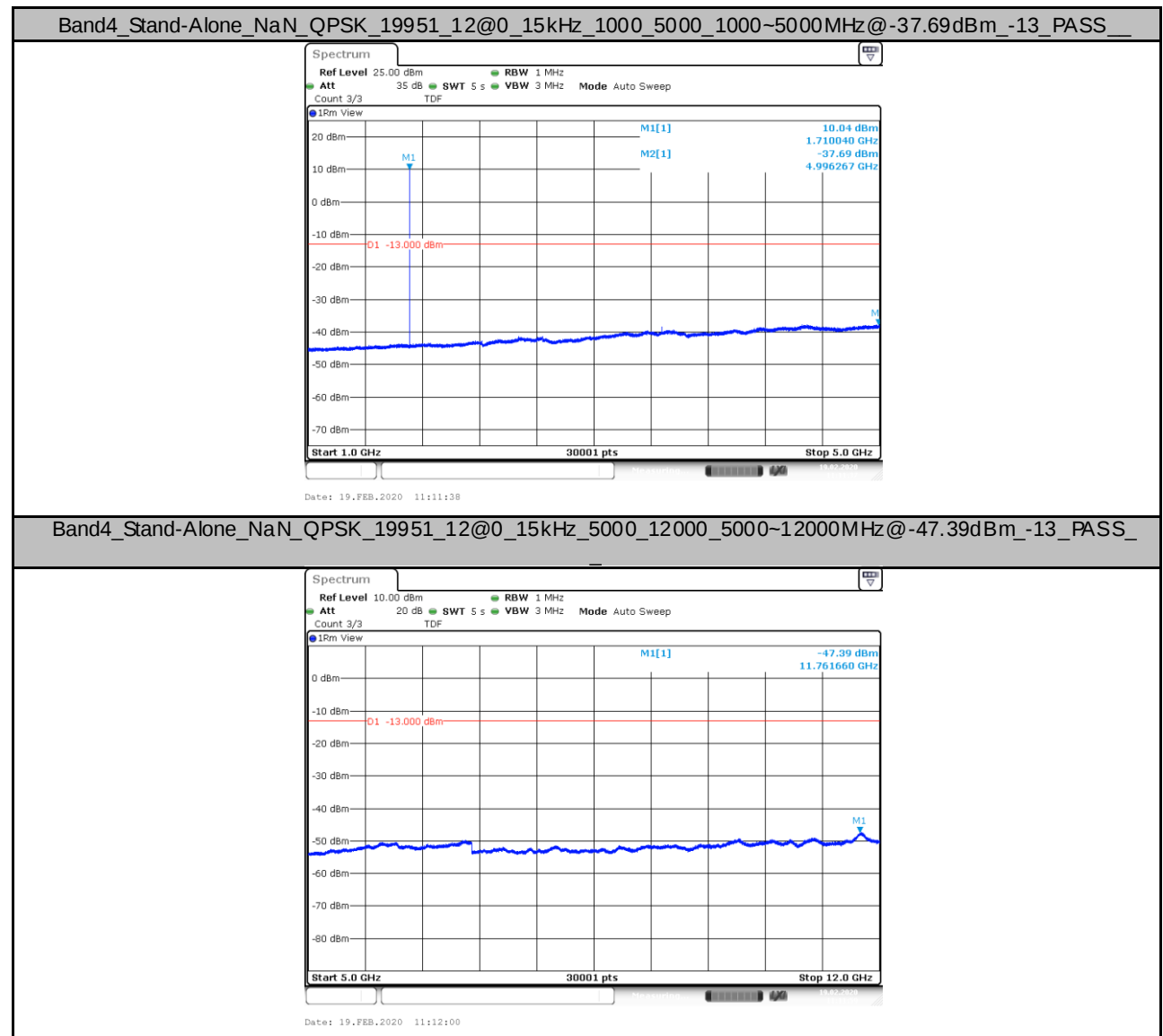
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band4	Stand-Alone	NaN	QPSK	19951	12@0	15kHz	1000	5000	1000-5000MHz@-37.69dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	12@0	15kHz	5000	12000	5000-12000MHz@-47.39dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	12@0	15kHz	12000	26500	12000-26500MHz@-41.17dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	12@0	15kHz	30	1000	30-1000MHz@-34.87dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	12@0	15kHz	30	1000	30-1000MHz@-34.76dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	12@0	15kHz	1000	5000	1000-5000MHz@-37.78dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	12@0	15kHz	5000	12000	5000-12000MHz@-47.3dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	12@0	15kHz	12000	26500	12000-26500MHz@-41.22dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	12@0	15kHz	30	1000	30-1000MHz@-35.44dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	12@0	15kHz	12000	26500	12000-26500MHz@-41.28dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	12@0	15kHz	1000	5000	1000-5000MHz@-37.63dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	12@0	15kHz	5000	12000	5000-12000MHz@-47.04dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@11	15kHz	1000	5000	1000-5000MHz@-37.69dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	30	1000	30-1000MHz@-35.08dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	1000	5000	1000-5000MHz@-37.72dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	5000	12000	5000-12000MHz@-47.16dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@0	15kHz	12000	26500	12000-26500MHz@-41.34dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@11	15kHz	5000	12000	5000-12000MHz@-47.36dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@11	15kHz	12000	26500	12000-26500MHz@-41.2dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	19951	1@11	15kHz	30	1000	30-1000MHz@-34.88dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@11	15kHz	5000	12000	5000-12000MHz@-47.42dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@11	15kHz	12000	26500	12000-26500MHz@-41.43dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@11	15kHz	1000	5000	1000-5000MHz@-35.82dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@11	15kHz	30	1000	30-1000MHz@-35.42dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	12000	26500	12000-26500MHz@-41.3dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	5000	12000	5000-12000MHz@-47.42dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	1000	5000	1000-5000MHz@-35.89dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20175	1@0	15kHz	30	1000	30-1000MHz@-35.08dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@11	15kHz	12000	26500	12000-26500MHz@-41.08dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	1000	5000	1000-5000MHz@-37.8dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	5000	12000	5000-12000MHz@-47.21dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	12000	26500	12000-26500MHz@-41.38dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@11	15kHz	30	1000	30-1000MHz@-35.17dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@11	15kHz	1000	5000	1000-5000MHz@-37.75dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@11	15kHz	5000	12000	5000-12000MHz@-47.35dBm	-13	PASS
Band4	Stand-Alone	NaN	BPSK	20399	1@0	15kHz	30	1000	30-1000MHz@-35.53dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.22dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.82dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.82dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.31dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	30	1000	30-1000MHz@-35.29dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.84dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	30	1000	30-1000MHz@-35.71dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.77dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.3dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.8dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.72dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.36dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	30	1000	30-1000MHz@-34.62dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.85dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.62dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	30	1000	30-1000MHz@-35.04dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.96dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	5000	12000	5000-12000MHz@-46.34dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.48dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.56dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	30	1000	30-1000MHz@-35.28dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.89dBm	-13	PASS

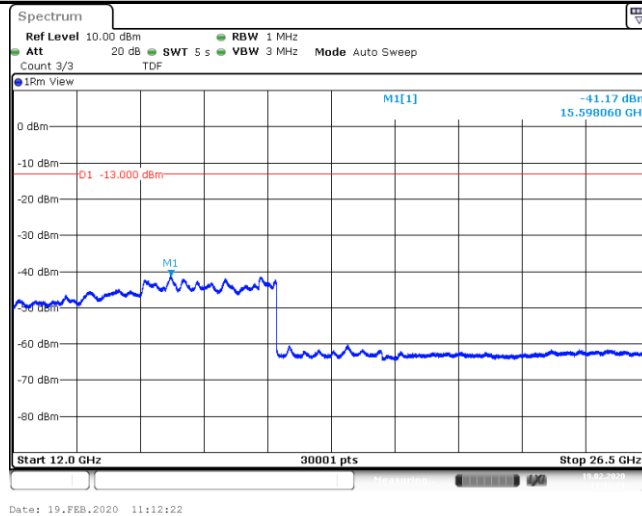
Produkte
Products

Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	5000	12000	5000~12000MHz@-46.51dBm	-13	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	30	1000	30~1000MHz@-35.84dBm	-13	PASS

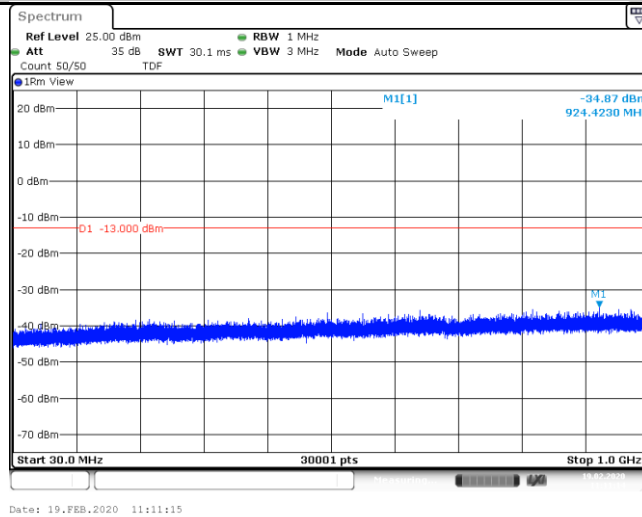
Test Graphs



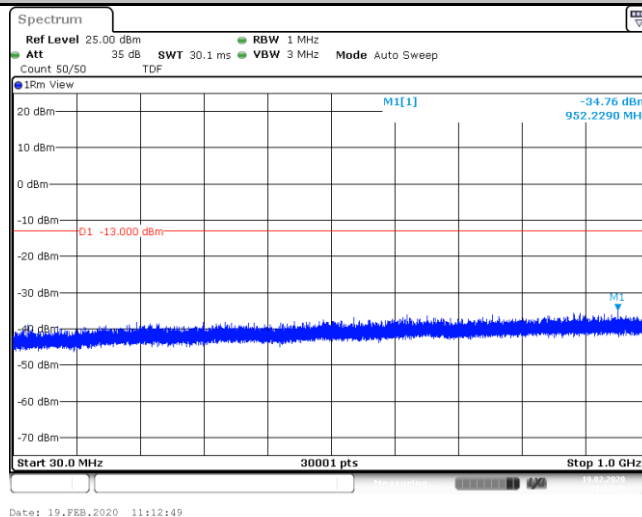
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S



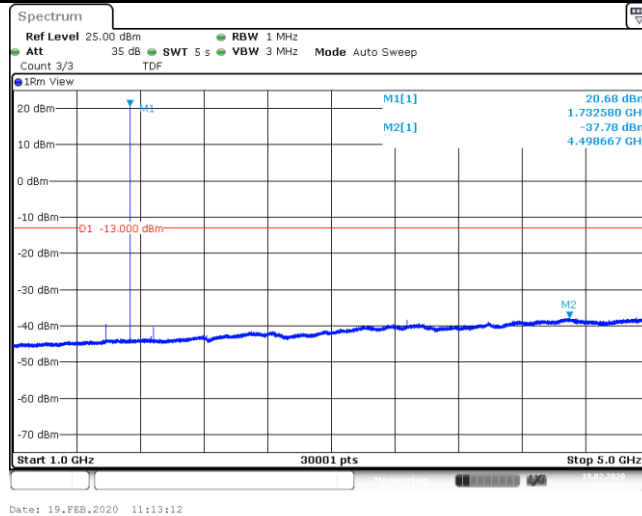
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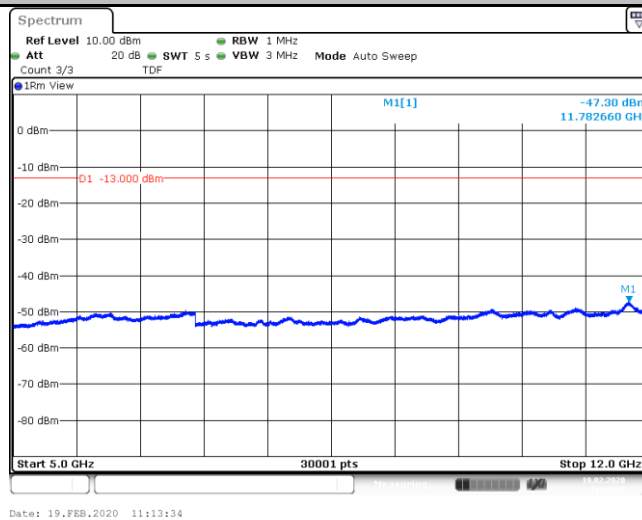
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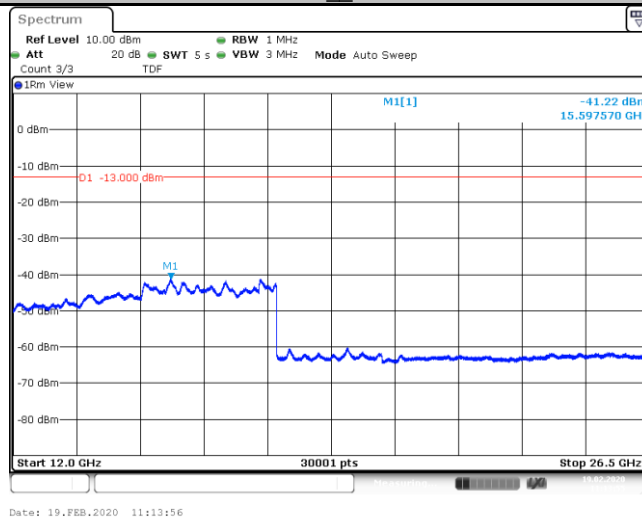
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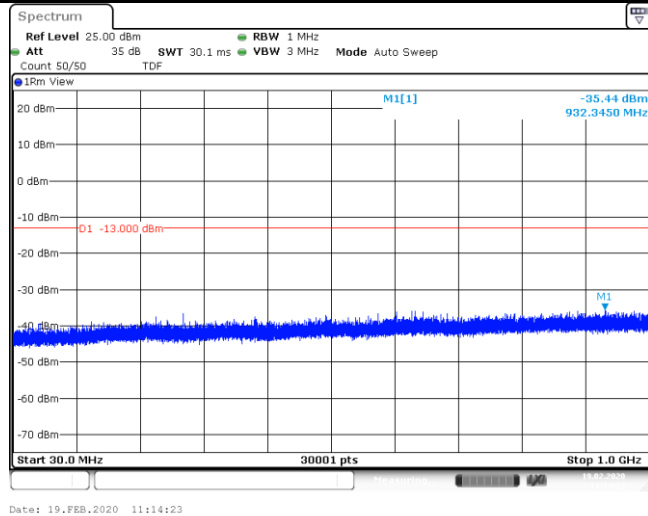
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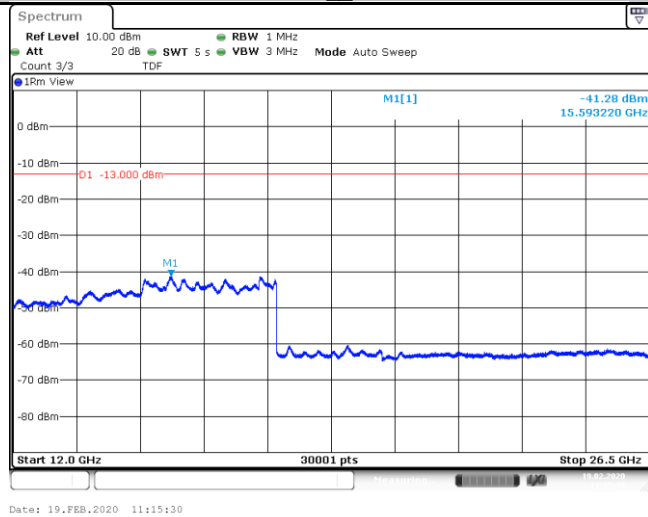
Band4_Stand-Alone_NaN_QPSK_20175_12@0_15kHz_12000_26500_12000~26500MHz@-41.22dBm_-13_PAS
S



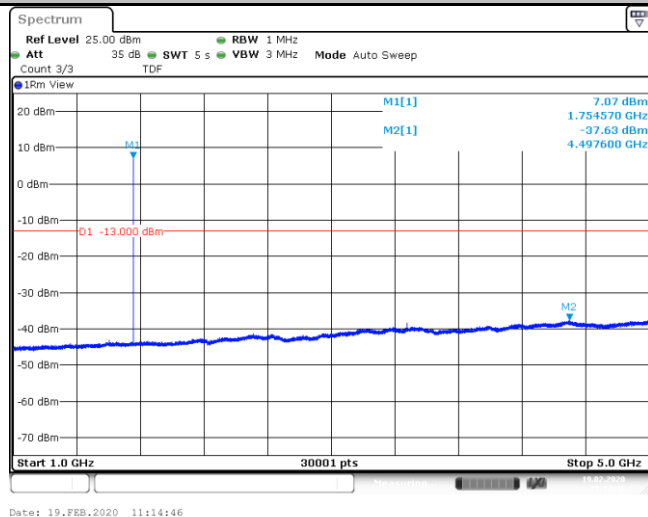
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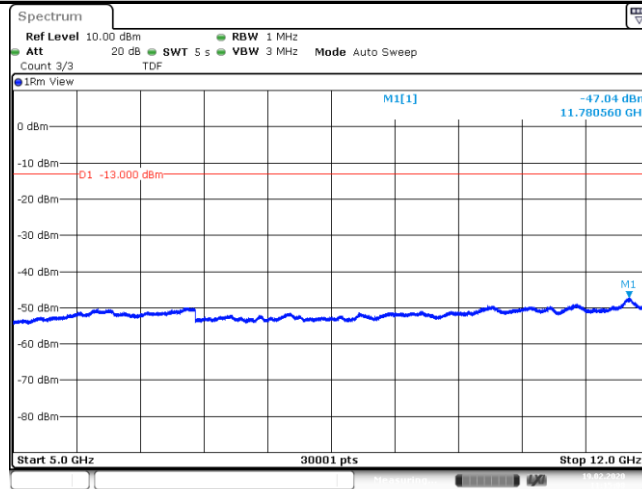
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S__



Band4_Stand-Alone_NaN_QPSK_20399_12@0_15kHz_1000_5000_1000~5000MHz@-37.63dBm_-13_PASS__

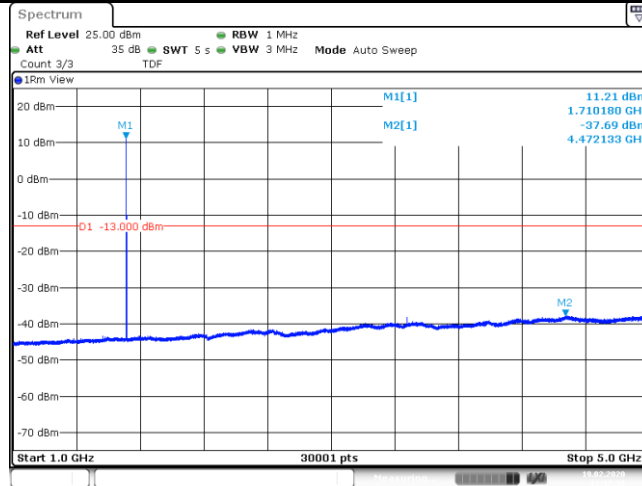


Band4_Stand-Alone_NaN_QPSK_20399_12@0_15kHz_5000_12000_5000~12000MHz@-47.04dBm_-13_PASS_



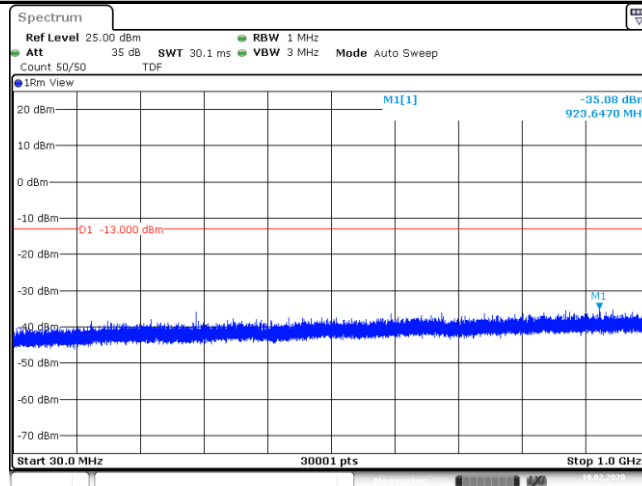
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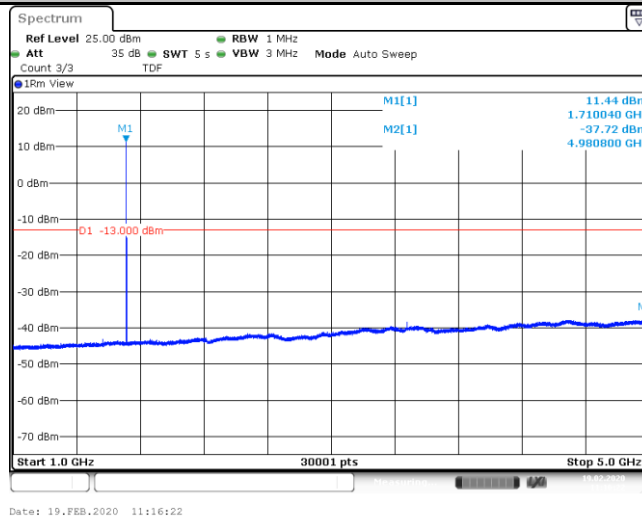
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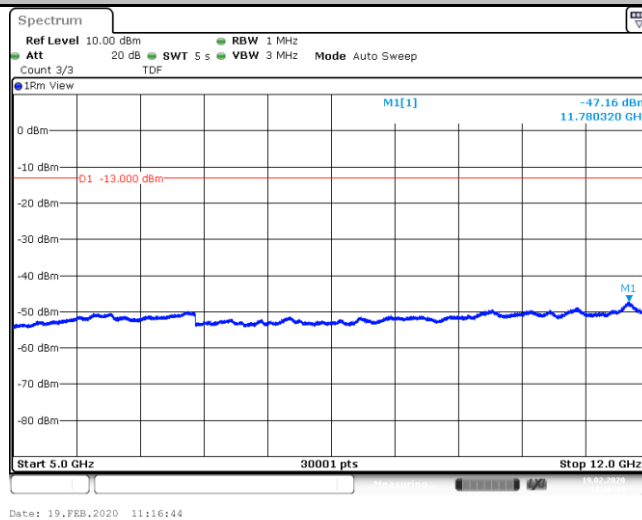


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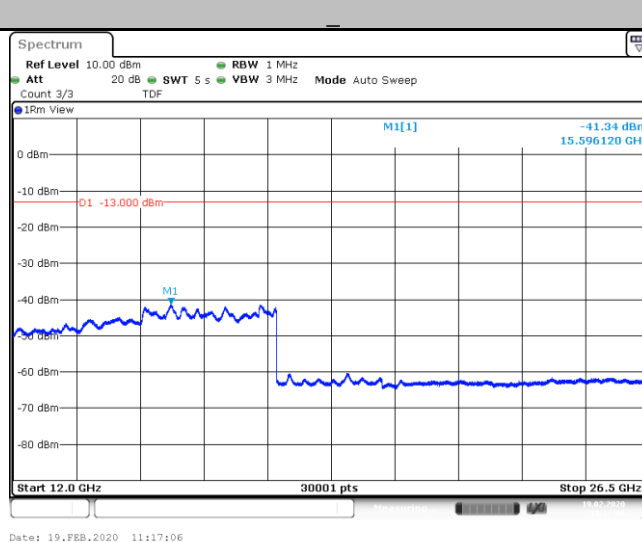
Band4_Stand-Alone_NaN_BPSK_19951_1@0_15kHz_1000_5000_1000~5000MHz@-37.72dBm_-13_PASS__



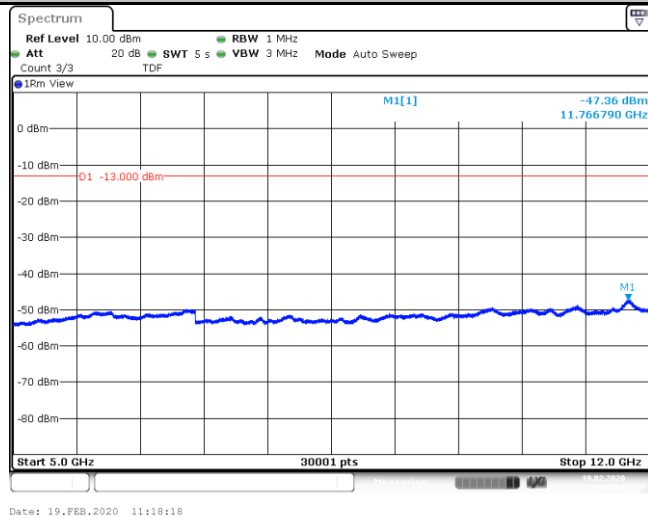
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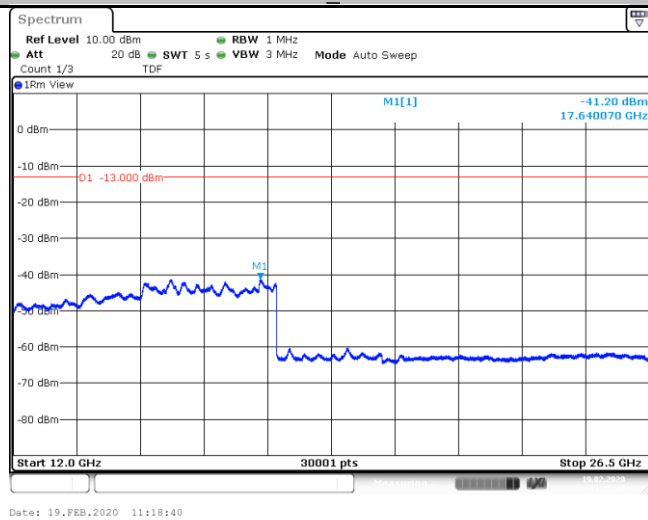
Band4_Stand-Alone_NaN_BPSK_19951_1@0_15kHz_12000_26500_12000~26500MHz@-41.34dBm_-13_PASS__



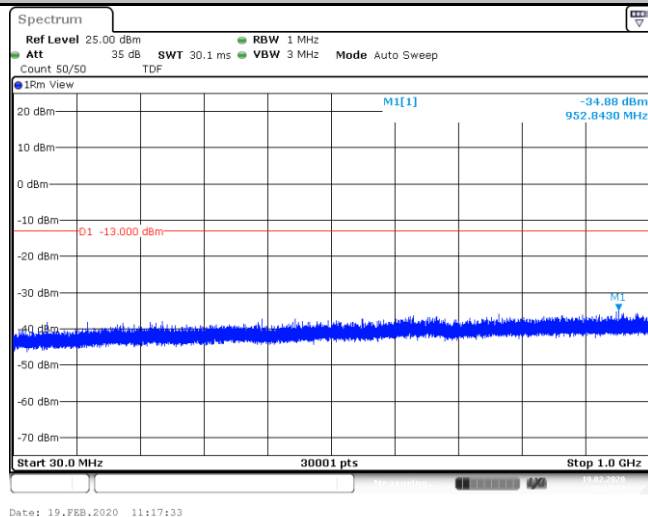
Band4_Stand-Alone_NaN_BPSK_19951_1@11_15kHz_5000_12000_5000~12000MHz@-47.36dBm_-13_PASS__



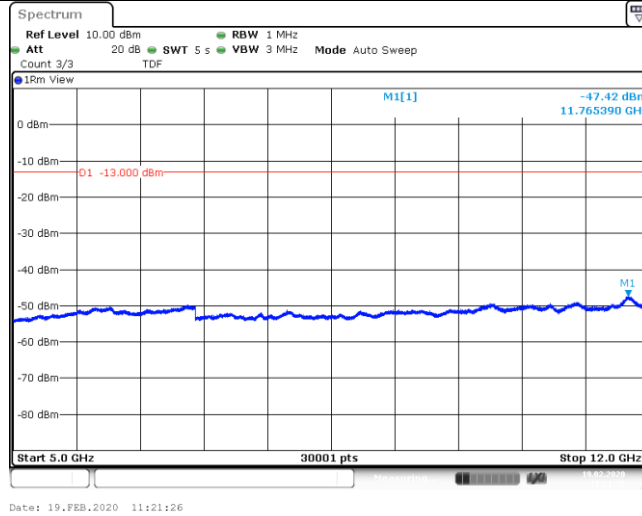
Band4_Stand-Alone_NaN_BPSK_19951_1@11_15kHz_12000_26500_12000~26500MHz@-41.2dBm_-13_PASS__



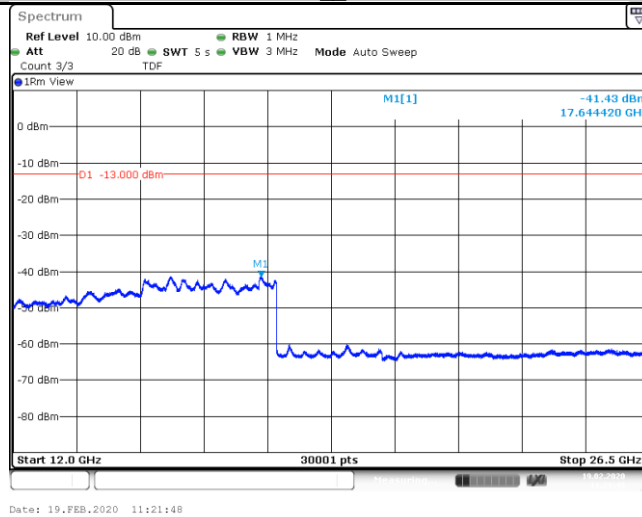
Band4_Stand-Alone_NaN_BPSK_19951_1@11_15kHz_30_1000_30~1000MHz@-34.88dBm_-13_PASS__



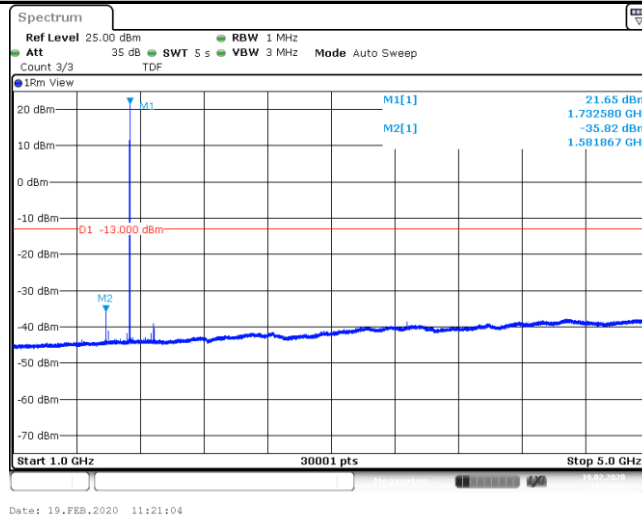
Band4_Stand-Alone_NaN_BPSK_20175_1@11_15kHz_5000_12000_5000~12000MHz@-47.42dBm_-13_PASS__



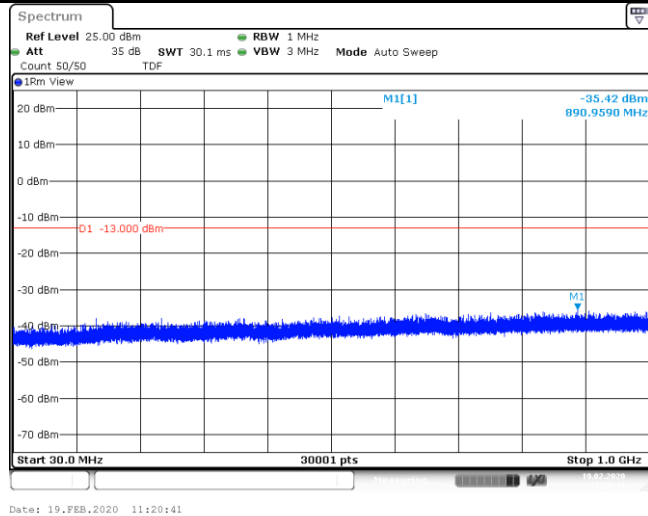
Band4_Stand-Alone_NaN_BPSK_20175_1@11_15kHz_12000_26500_12000~26500MHz@-41.43dBm_-13_PASS



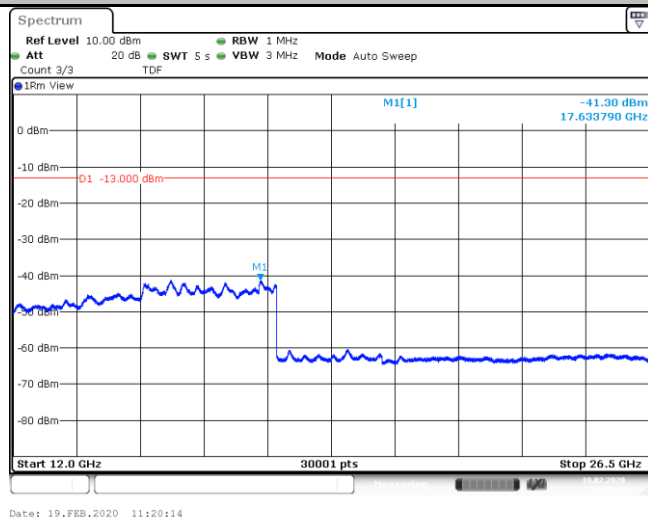
Band4_Stand-Alone_NaN_BPSK_20175_1@11_15kHz_1000_5000_1000~5000MHz@-35.82dBm_-13_PASS__



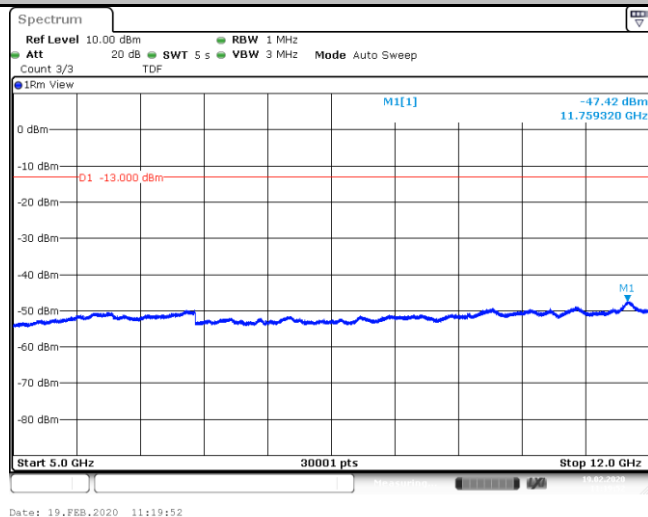
Band4_Stand-Alone_NaN_BPSK_20175_1@11_15kHz_30_1000_30~1000MHz@-35.42dBm_-13_PASS__



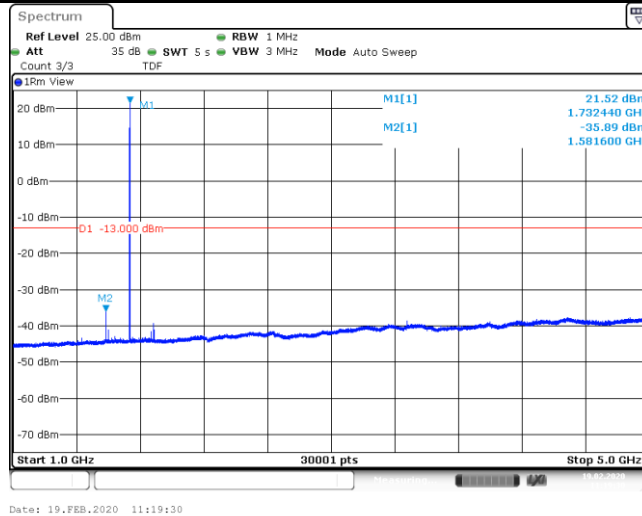
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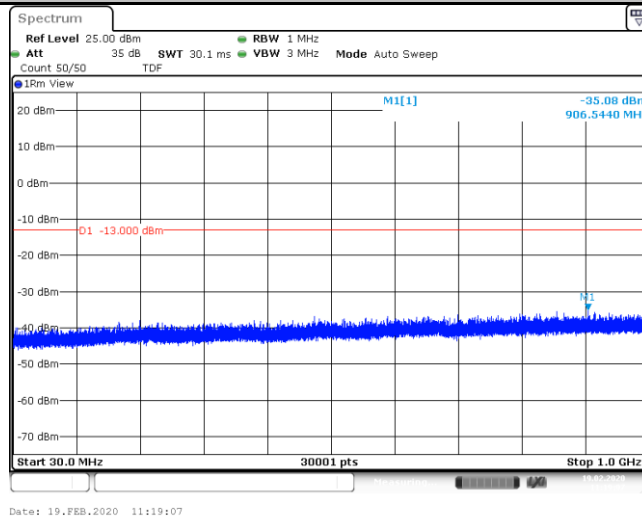
Band4_Stand-Alone_NaN_BPSK_20175_1@0_15kHz_5000_12000_5000~12000MHz@-47.42dBm_-13_PASS__



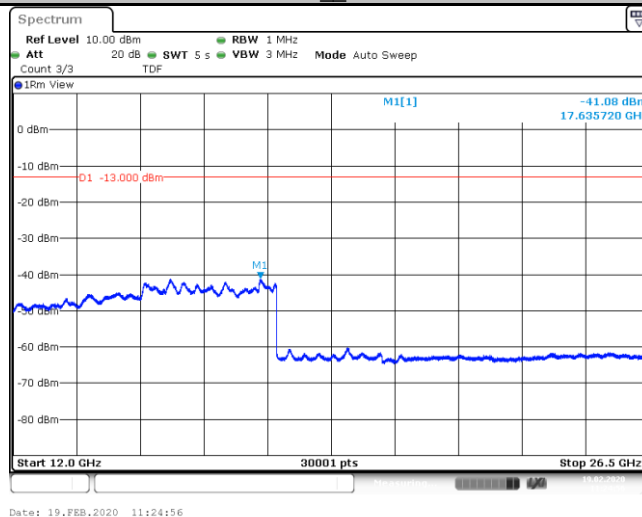
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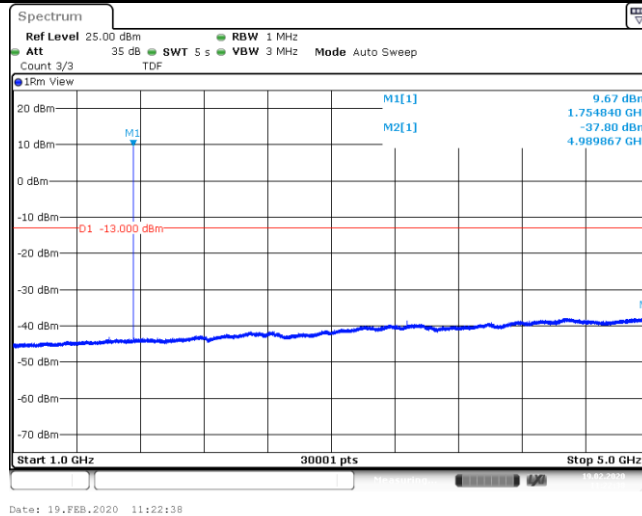
Band4_Stand-Alone_NaN_BPSK_20175_1@0_15kHz_30_1000_30~1000MHz@-35.08dBm_-13_PASS__



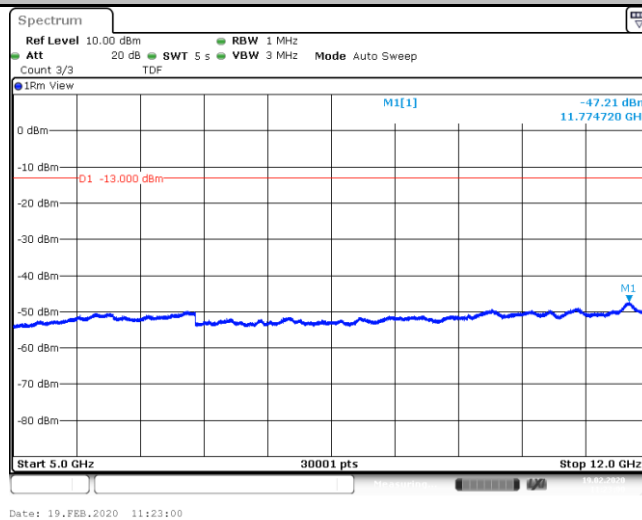
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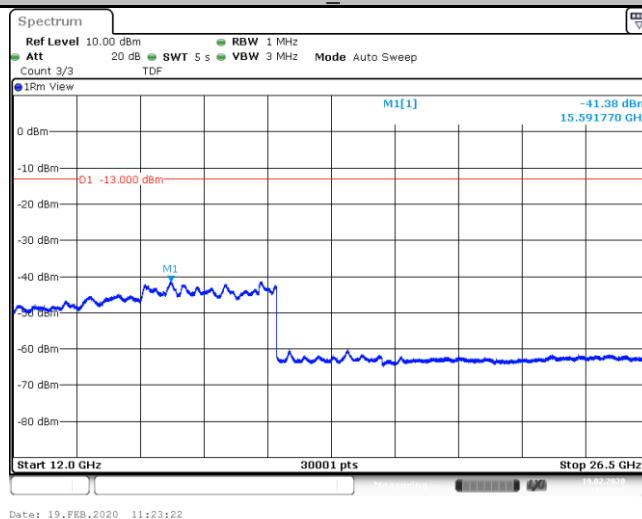
Band4_Stand-Alone_NaN_BPSK_20399_1@0_15kHz_1000_5000_1000~5000MHz@-37.8dBm_-13_PASS__



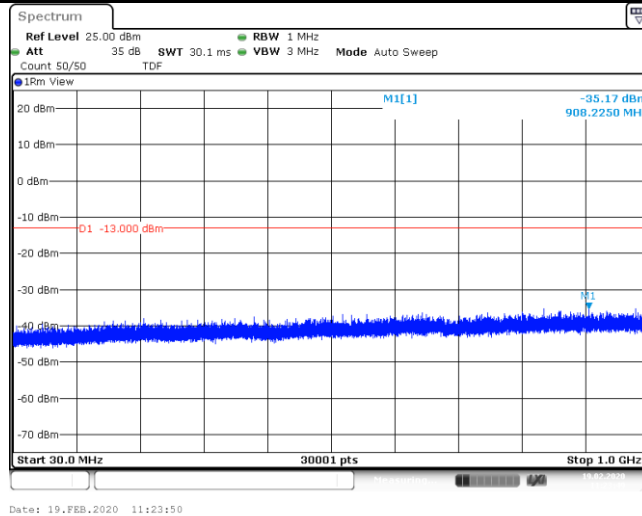
Band4_Stand-Alone_NaN_BPSK_20399_1@0_15kHz_5000_12000_5000~12000MHz@-47.21dBm_-13_PASS__



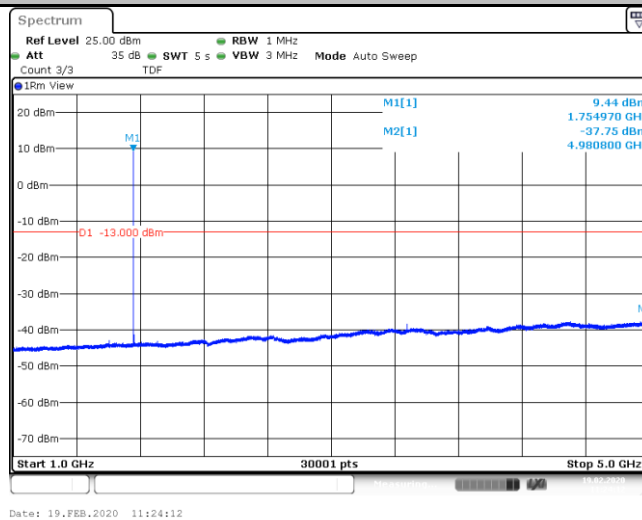
Band4_Stand-Alone_NaN_BPSK_20399_1@0_15kHz_12000_26500_12000~26500MHz@-41.38dBm_-13_PASS__



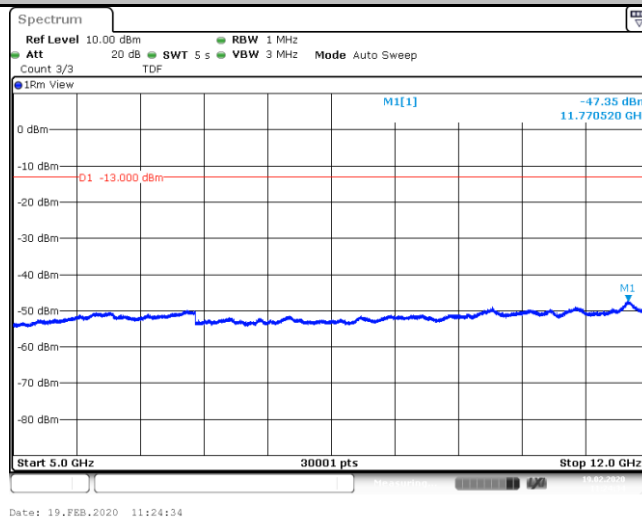
Band4_Stand-Alone_NaN_BPSK_20399_1@11_15kHz_30_1000_30~1000MHz@-35.17dBm_-13_PASS__



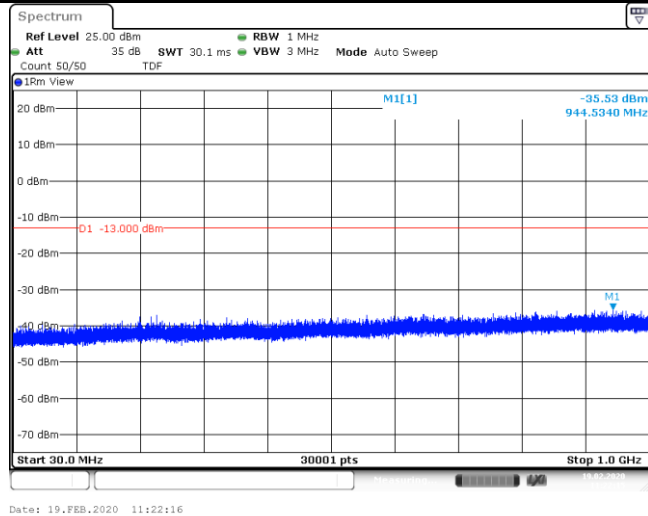
Band4_Stand-Alone_NaN_BPSK_20399_1@11_15kHz_1000_5000_1000~5000MHz@-37.75dBm_-13_PASS__



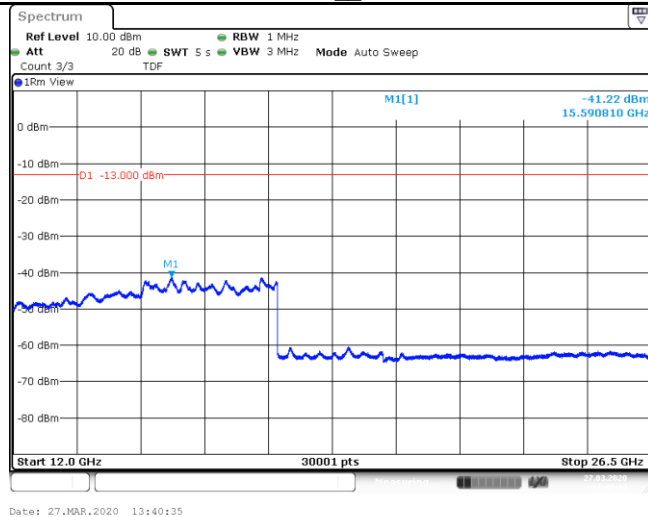
Band4_Stand-Alone_NaN_BPSK_20399_1@11_15kHz_5000_12000_5000~12000MHz@-47.35dBm_-13_PASS__



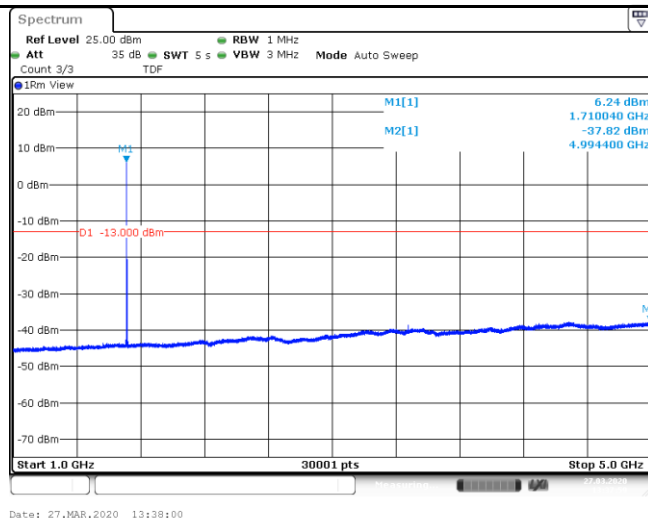
Band4_Stand-Alone_NaN_BPSK_20399_1@0_15kHz_30_1000_30~1000MHz@-35.53dBm_-13_PASS__



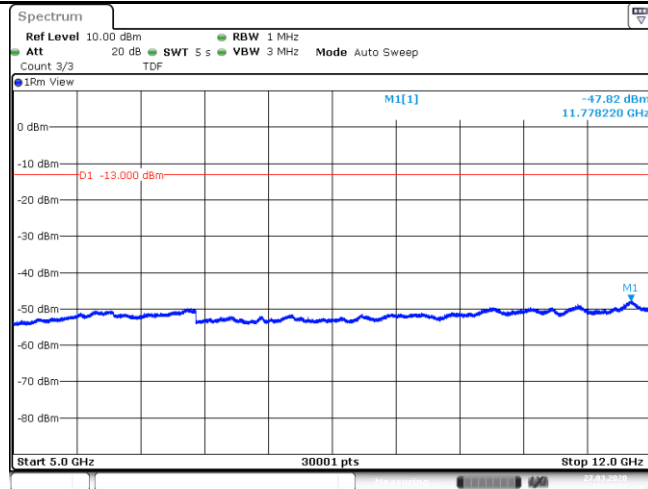
Band4_Stand-Alone_NaN_QPSK_19951_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.22dBm_-13_PA
SS__



Band4_Stand-Alone_NaN_QPSK_19951_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.82dBm_-13_PASS__

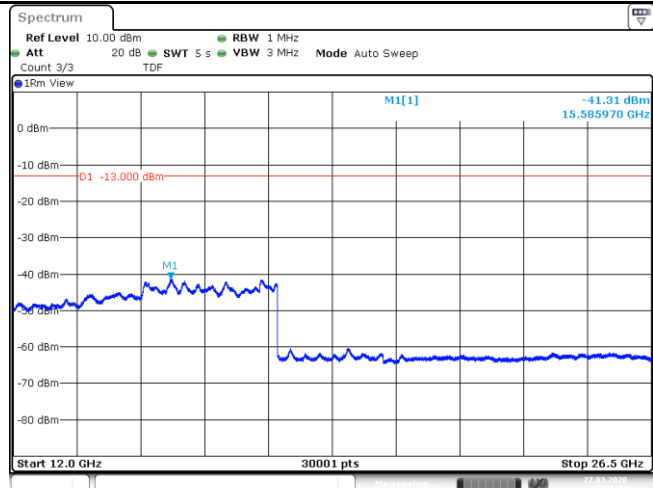


Band4_Stand-Alone_NaN_QPSK_19951_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.82dBm_-13_PASS_



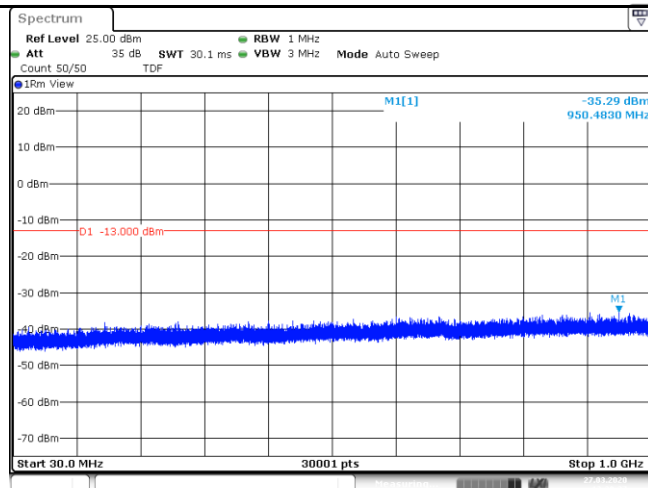
Date: 27.MAR.2020 13:38:22

Band4_Stand-Alone_NaN_QPSK_19951_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_PAS
S_



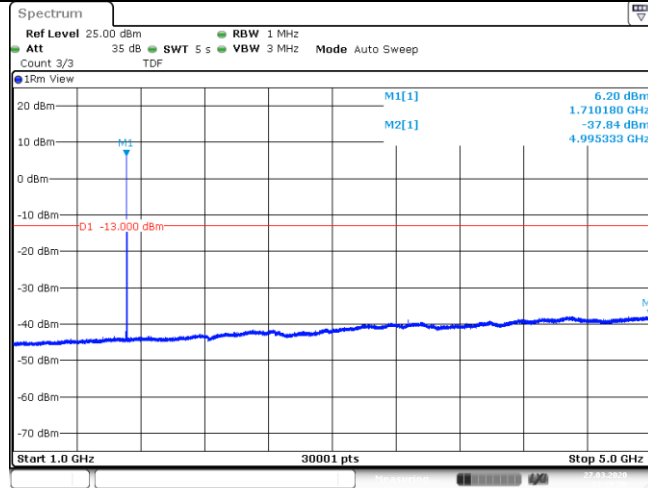
Date: 27.MAR.2020 13:38:44

Band4_Stand-Alone_NaN_QPSK_19951_1@47_3.75kHz_30_1000_30~1000MHz@-35.29dBm_-13_PASS_



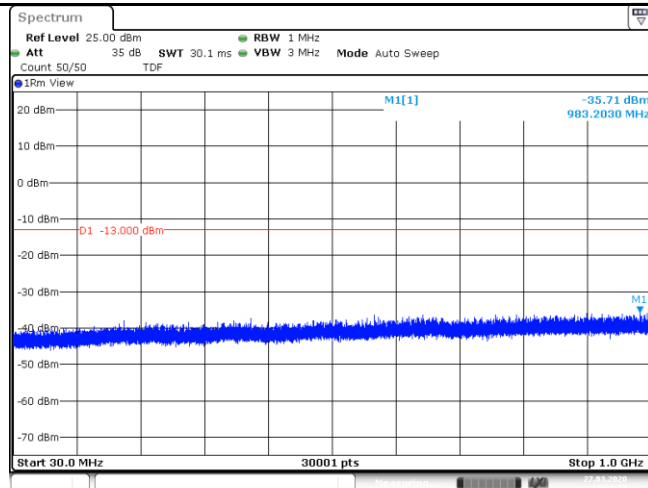
Date: 27.MAR.2020 13:39:28

Band4_Stand-Alone_NaN_QPSK_19951_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.84dBm_-13_PASS__



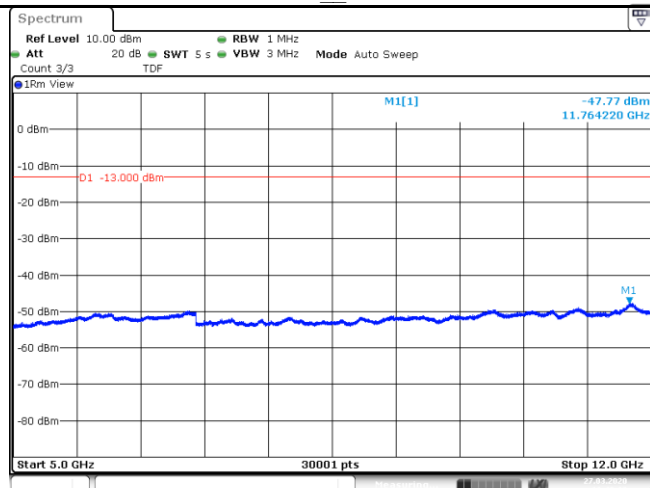
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Band4_Stand-Alone_NaN_QPSK_19951_1@0_3.75kHz_30_1000_30~1000MHz@-35.71dBm_-13_PASS__



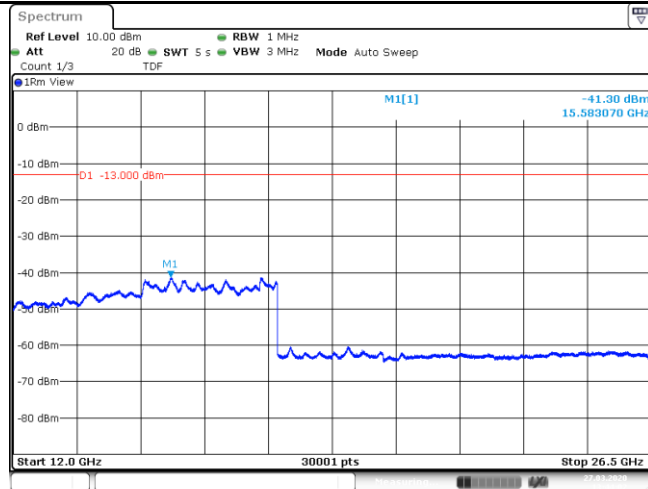
Date: 27.MAR.2020 13:37:37

Band4_Stand-Alone_NaN_QPSK_19951_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.77dBm_-13_PASS



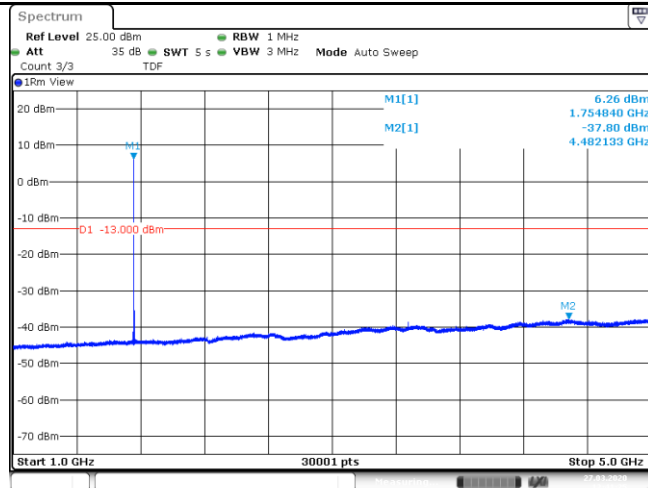
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Band4_Stand-Alone_NaN_QPSK_20399_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.3dBm_-13_PAS
S__



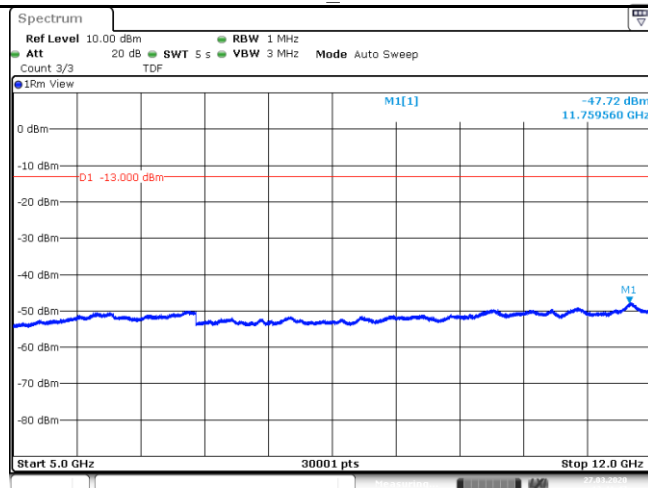
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Band4_Stand-Alone_NaN_QPSK_20399_1@0_3.75kHz_1000_5000_1000~5000MHz @-37.8dBm_-13_PASS__



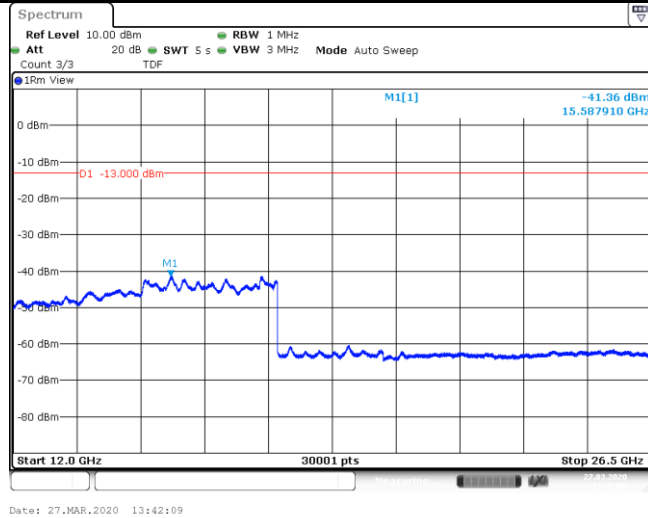
Date: 27.MAR.2020 13:41:25

Band4_Stand-Alone_NaN_QPSK_20399_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.72dBm_-13_PASS__

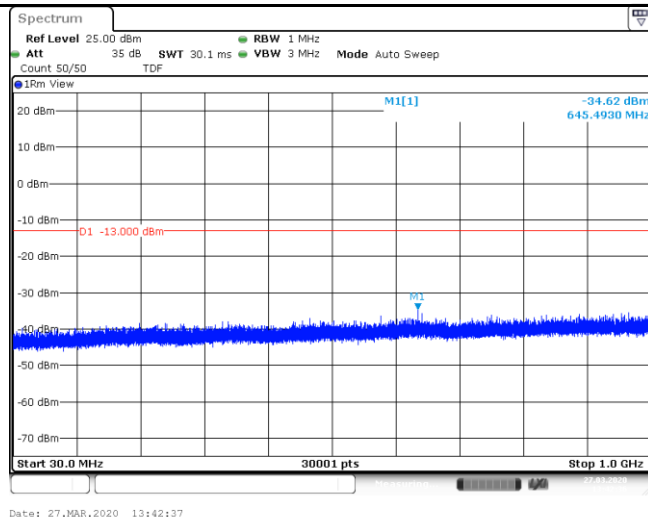


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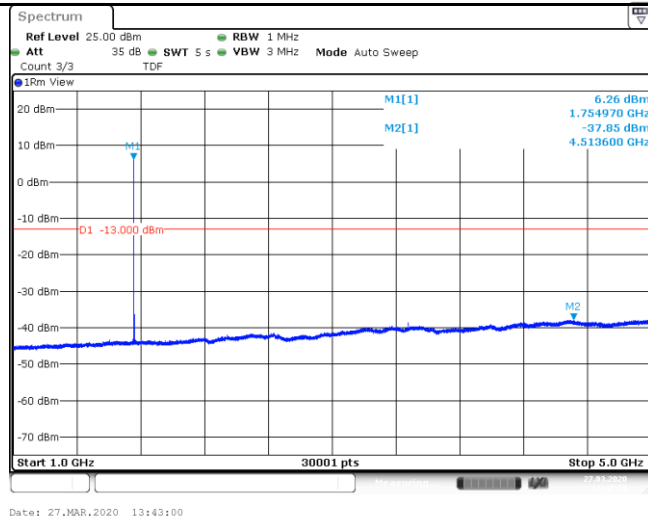
Band4_Stand-Alone_NaN_QPSK_20399_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.36dBm_-13_PAS
S



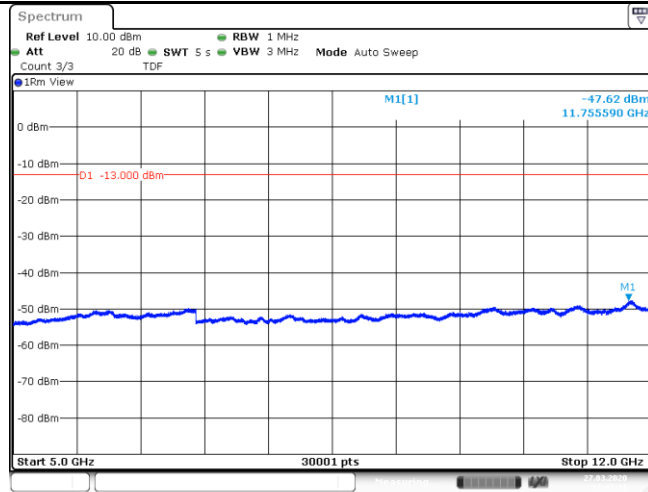
Band4_Stand-Alone_NaN_QPSK_20399_1@47_3.75kHz_30_1000_30~1000MHz@-34.62dBm_-13_PASS



Band4_Stand-Alone_NaN_QPSK_20399_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.85dBm_-13_PASS

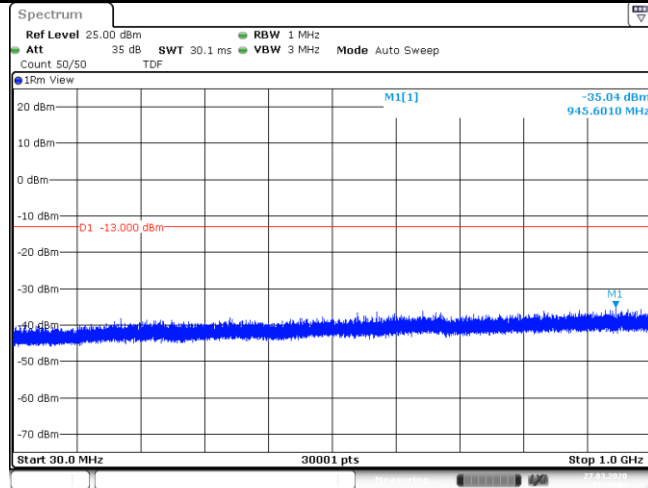


Band4_Stand-Alone_NaN_QPSK_20399_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.62dBm_-13_PASS



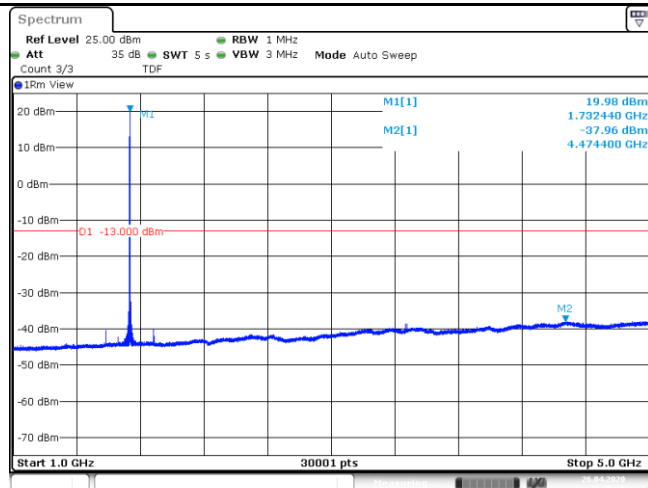
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Band4_Stand-Alone_NaN_QPSK_20399_1@0_3.75kHz_30_1000_30~1000MHz @-35.04dBm_-13_PASS__



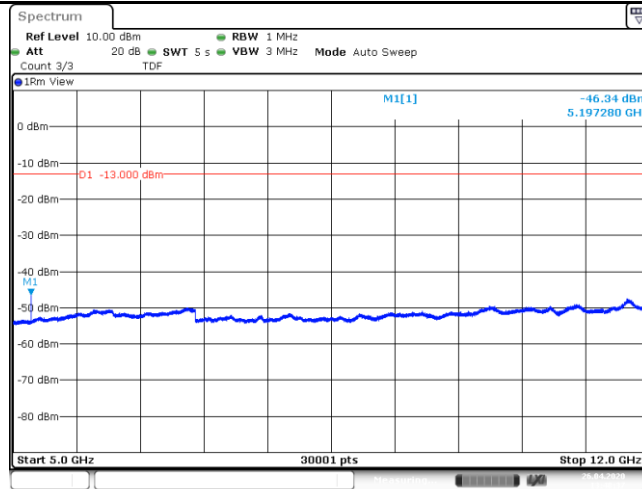
Date: 27.MAR.2020 13:41:02

Band4_Stand-Alone_NaN_QPSK_20175_1@0_3.75kHz_1000_5000_1000~5000MHz @-37.96dBm_-13_PASS__



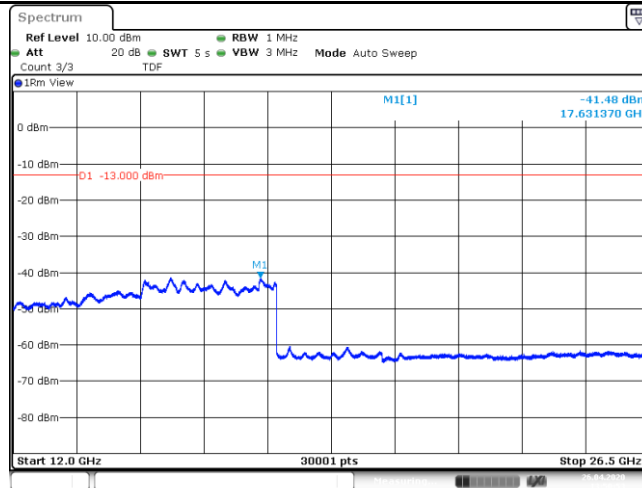
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Band4_Stand-Alone_NaN_QPSK_20175_1@0_3.75kHz_5000_12000_5000~12000MHz@-46.34dBm_-13_PASS_



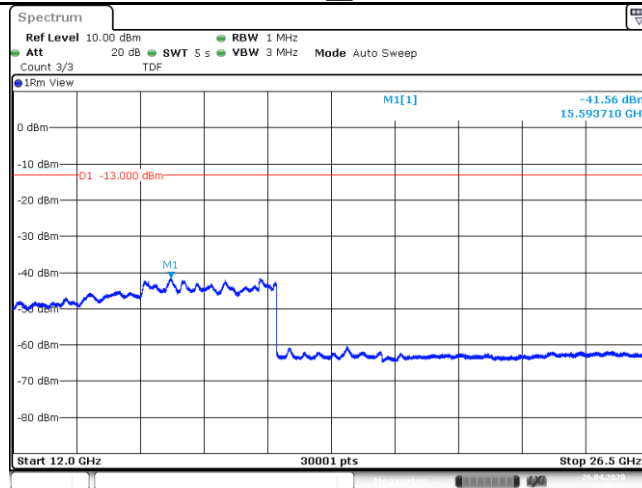
Date: 26.APR.2020 13:48:37

Band4_Stand-Alone_NaN_QPSK_20175_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PA
SS_



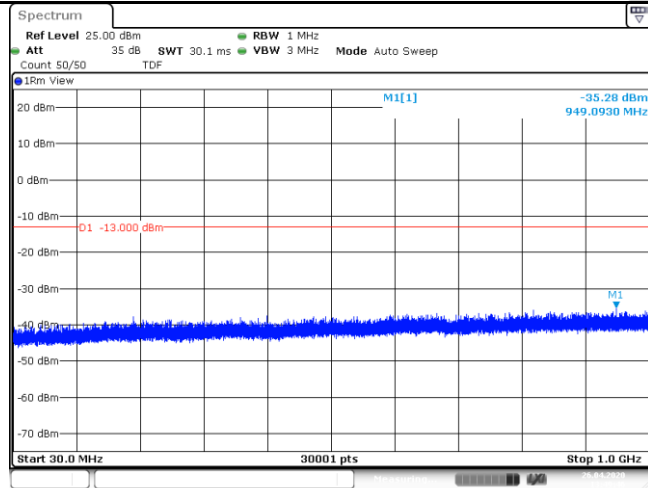
Date: 26.APR.2020 13:50:53

Band4_Stand-Alone_NaN_QPSK_20175_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.56dBm_-13_PAS
S_

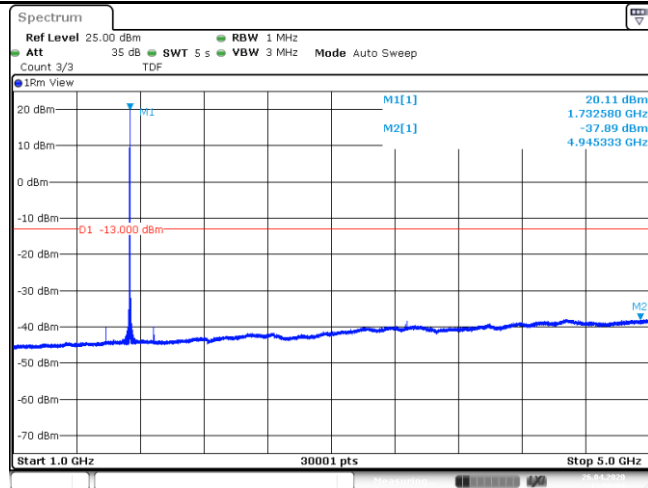


Date: 26.APR.2020 13:48:59

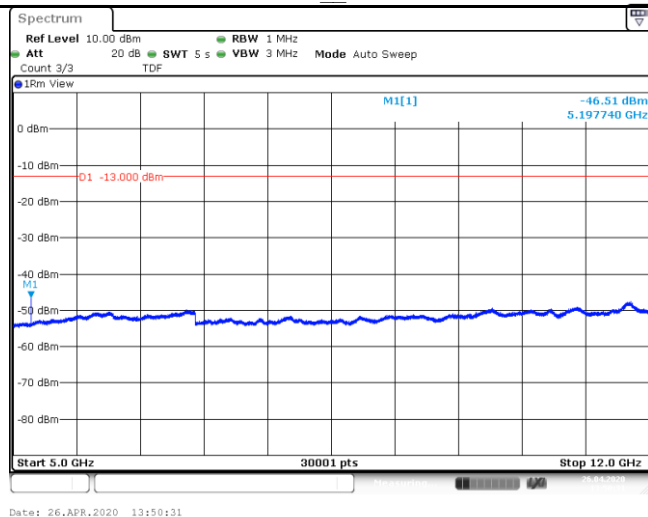
Band4_Stand-Alone_NaN_QPSK_20175_1@47_3.75kHz_30_1000_30~1000MHz@-35.28dBm_-13_PASS__



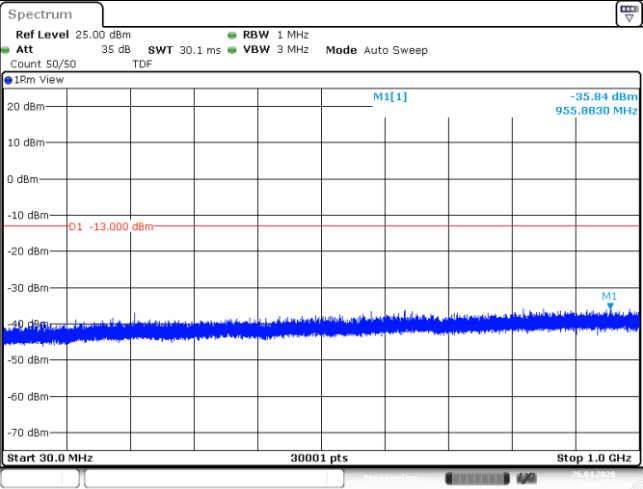
Band4_Stand-Alone_NaN_QPSK_20175_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.89dBm_-13_PASS__



Band4_Stand-Alone_NaN_QPSK_20175_1@47_3.75kHz_5000_12000_5000~12000MHz@-46.51dBm_-13_PASS



Band4_Stand-Alone_NaN_QPSK_20175_1@0_3.75kHz_30_1000_30~1000MHz@-35.84dBm_-13_PASS__



Date: 26.APR.2020 13:47:52

Appendix B.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
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	HV	NT	-45.39	-0.026199	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	LV	NT	-45.18	-0.026078	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	NT	-43.09	-0.024872	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	HV	NT	-57.96	-0.033455	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	LV	NT	-47.12	-0.027198	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	NT	-49.94	-0.028825	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	HV	NT	-13.53	-0.007810	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	LV	NT	-14.83	-0.008560	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	NT	-17.48	-0.010089	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	HV	NT	-14.19	-0.008190	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	LV	NT	-13.93	-0.008040	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	NT	-14.96	-0.008635	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	-40	-47.88	-0.027636	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	-30	-47.51	-0.027423	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	-20	-49.52	-0.028583	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	-10	-47.51	-0.027423	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	0	-50.05	-0.028889	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	10	-50.08	-0.028906	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	20	-51.48	-0.029714	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	30	-39.77	-0.022955	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	40	-51.16	-0.029530	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	50	-49.14	-0.028364	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	60	-46.58	-0.026886	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	70	-45.36	-0.026182	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	-40	-43.76	-0.025258	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	85	-45.59	-0.026315	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	85	-48.47	-0.027977	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	-30	-44.25	-0.025541	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	-20	-43.73	-0.025241	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	-10	-40.56	-0.023411	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	0	-45.28	-0.026136	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	10	-38.11	-0.021997	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	20	-45.46	-0.026240	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	30	-44.32	-0.025582	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	40	-53.63	-0.030955	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	50	-62.44	-0.036040	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	60	-39.73	-0.022932	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	70	-42.29	-0.024410	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@11	15kHz	NV	80	-53.70	-0.030996	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	15kHz	NV	80	-49.75	-0.028716	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	-40	-13.46	-0.007769	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	-30	-14.62	-0.008439	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	-20	-11.59	-0.006690	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	-10	-13.39	-0.007729	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	0	-12.86	-0.007423	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	10	-9.01	-0.005201	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	20	-8.91	-0.005143	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	30	-12.70	-0.007330	±2.5	PASS

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Produkte
Products

Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	40	-11.56	-0.006672	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	50	-13.23	-0.007636	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	60	-12.75	-0.007359	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	70	-8.90	-0.005137	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	-40	-10.80	-0.006234	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	85	-10.61	-0.006124	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	85	-10.17	-0.005870	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	-30	-13.09	-0.007556	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	-20	-11.20	-0.006465	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	-10	-13.66	-0.007885	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	0	-12.86	-0.007423	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	10	-13.52	-0.007804	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	20	-11.62	-0.006707	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	30	-11.83	-0.006828	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	40	-11.59	-0.006690	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	50	-12.39	-0.007152	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	60	-12.73	-0.007348	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	70	-11.74	-0.006776	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@47	3.75kHz	NV	80	-9.20	-0.005310	±2.5	PASS
Band4	Stand-Alone	NaN	QPSK	20175	1@0	3.75kHz	NV	80	-7.84	-0.004525	±2.5	PASS