

Appendix H: Test Results of Band 26 Upper Band for NB-IoT operation

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

Test Result

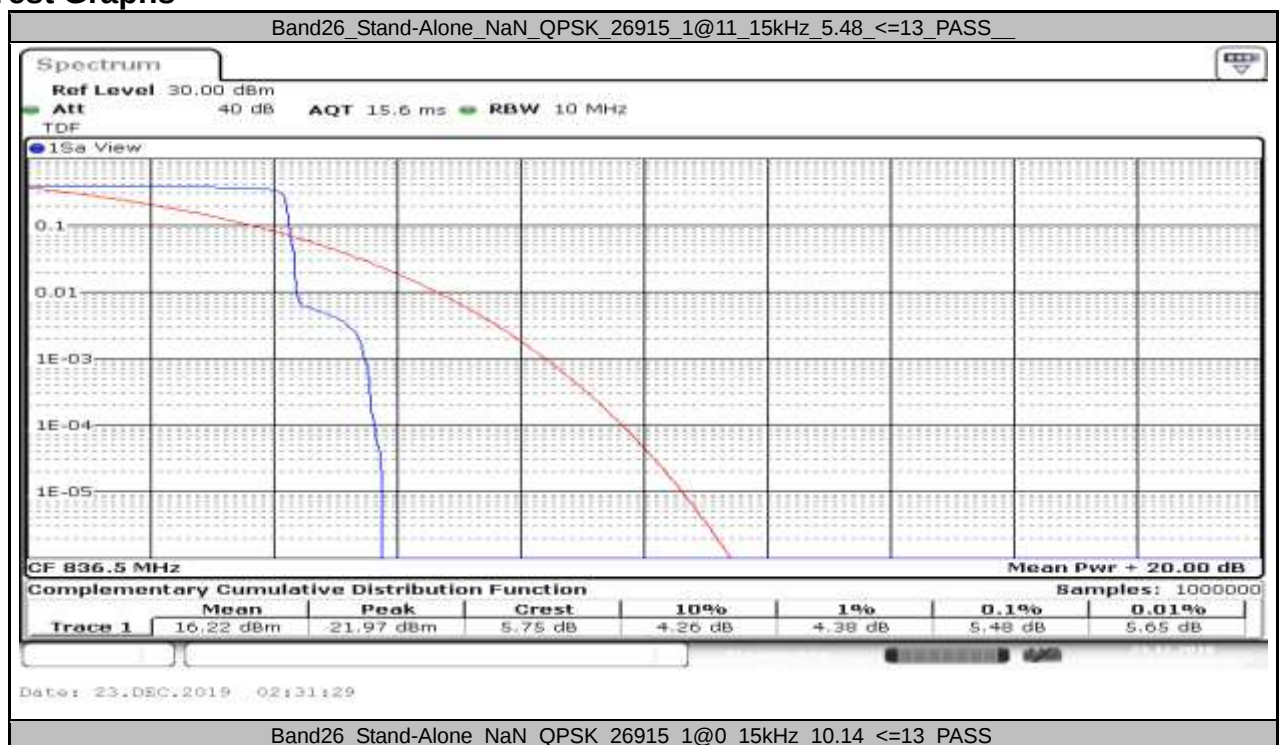
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)		Verdict
							dBm	dBm	Watts	FCC	ISED	
Band26	Stand-Alone	NaN	QPSK	26791	1@47	3.75kHz	11.76	11.75	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@11	15kHz	11.74	11.73	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	11.82	11.81	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	15kHz	11.81	11.8	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26791	3@3	15kHz	11.71	11.7	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26792	3@3	15kHz	20.85	20.84	0.121	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26792	1@11	15kHz	20.5	20.49	0.112	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26792	1@47	3.75kHz	20.01	20	0.100	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26792	1@0	15kHz	20.59	20.58	0.114	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26792	1@0	3.75kHz	20.06	20.05	0.101	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	3@3	15kHz	20.94	20.93	0.124	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	20.67	20.66	0.116	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	20.58	20.57	0.114	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	20.09	20.08	0.102	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	20.04	20.03	0.101	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27038	1@47	3.75kHz	19.52	19.51	0.089	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27038	3@3	15kHz	20.42	20.41	0.110	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27038	1@0	15kHz	20.14	20.13	0.103	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27038	1@0	3.75kHz	19.59	19.58	0.091	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27038	1@11	15kHz	20.06	20.05	0.101	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@11	15kHz	11.33	11.32	0.014	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27039	3@3	15kHz	11.35	11.34	0.014	7	11.5	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	15kHz	11.42	11.41	0.014	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@47	3.75kHz	11.72	11.71	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	3.75kHz	11.77	11.76	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	11.74	11.73	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26791	3@3	15kHz	11.71	11.7	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@11	15kHz	11.72	11.71	0.015	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26792	1@11	15kHz	20.4	20.39	0.109	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26792	3@3	15kHz	20.83	20.82	0.121	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26792	1@0	15kHz	20.44	20.43	0.110	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26792	1@0	3.75kHz	19.96	19.95	0.099	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26792	1@47	3.75kHz	19.93	19.92	0.098	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26915	3@3	15kHz	20.94	20.93	0.124	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	3.75kHz	19.96	19.95	0.099	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@11	15kHz	20.44	20.43	0.110	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	20.51	20.5	0.112	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@47	3.75kHz	19.91	19.9	0.098	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27038	1@11	15kHz	19.93	19.92	0.098	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27038	3@3	15kHz	20.43	20.42	0.110	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27038	1@0	15kHz	20.01	20	0.100	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27038	1@47	3.75kHz	19.39	19.38	0.087	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27038	1@0	3.75kHz	19.51	19.5	0.089	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	11.37	11.36	0.014	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27039	3@3	15kHz	11.34	11.33	0.014	7	11.5	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@11	15kHz	11.28	11.27	0.013	7	11.5	PASS

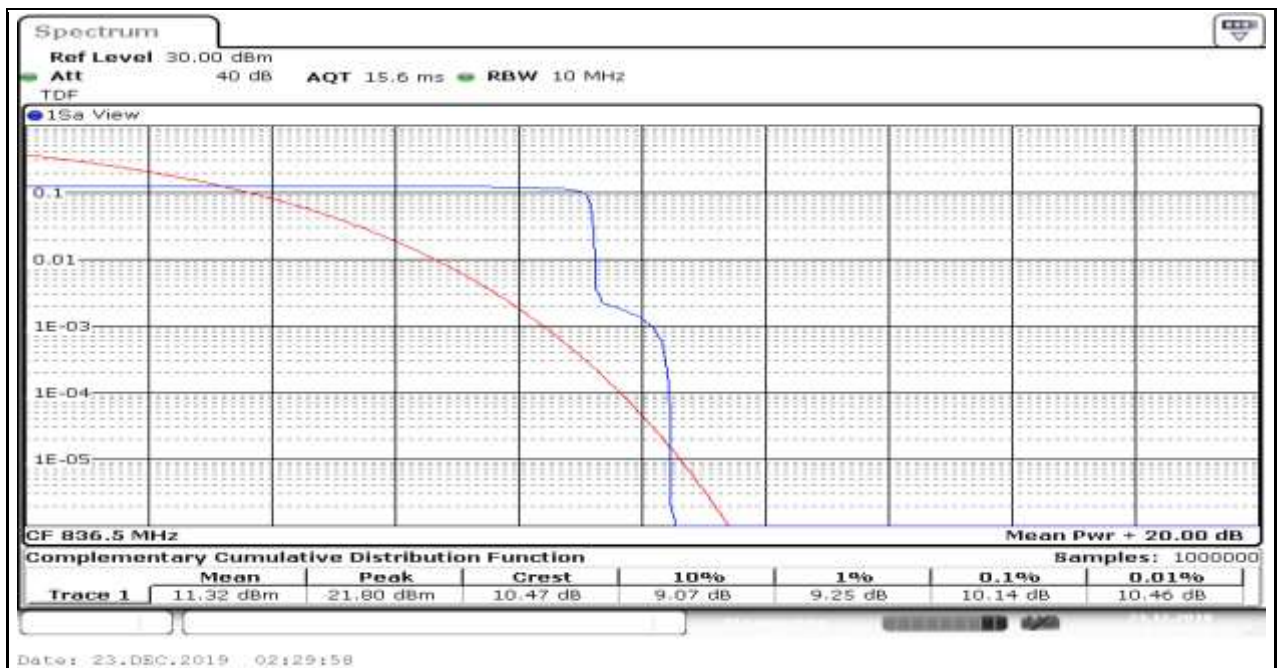
Appendix H.2: Peak-to-Average Ratio (CCDF) for NB

Test Result

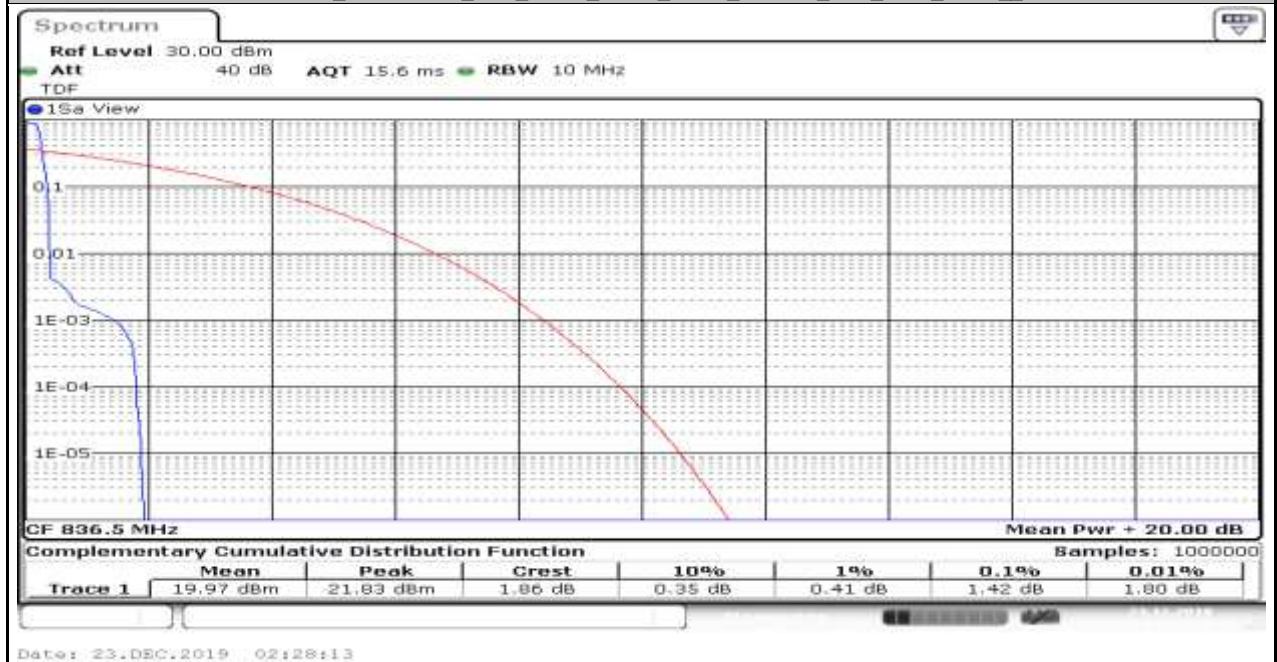
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	5.48	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	10.14	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	1.42	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	1.59	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	3@3	15kHz	9.57	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@47	3.75kHz	1.88	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	1.42	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@11	15kHz	8.43	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	3@3	15kHz	9.62	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	3.75kHz	1.48	<=13	PASS

Test Graphs

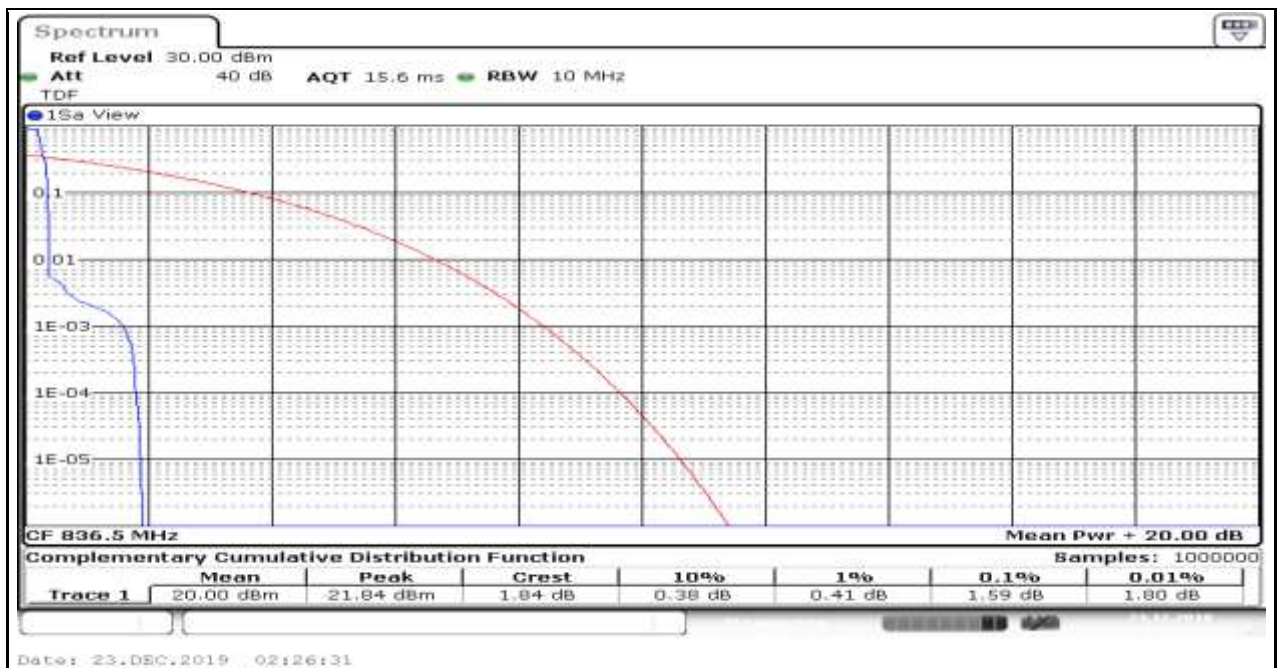




Band26_Stand-Alone_NaN_QPSK_26915_1@47_3.75kHz_1.42_<=13_PASS_



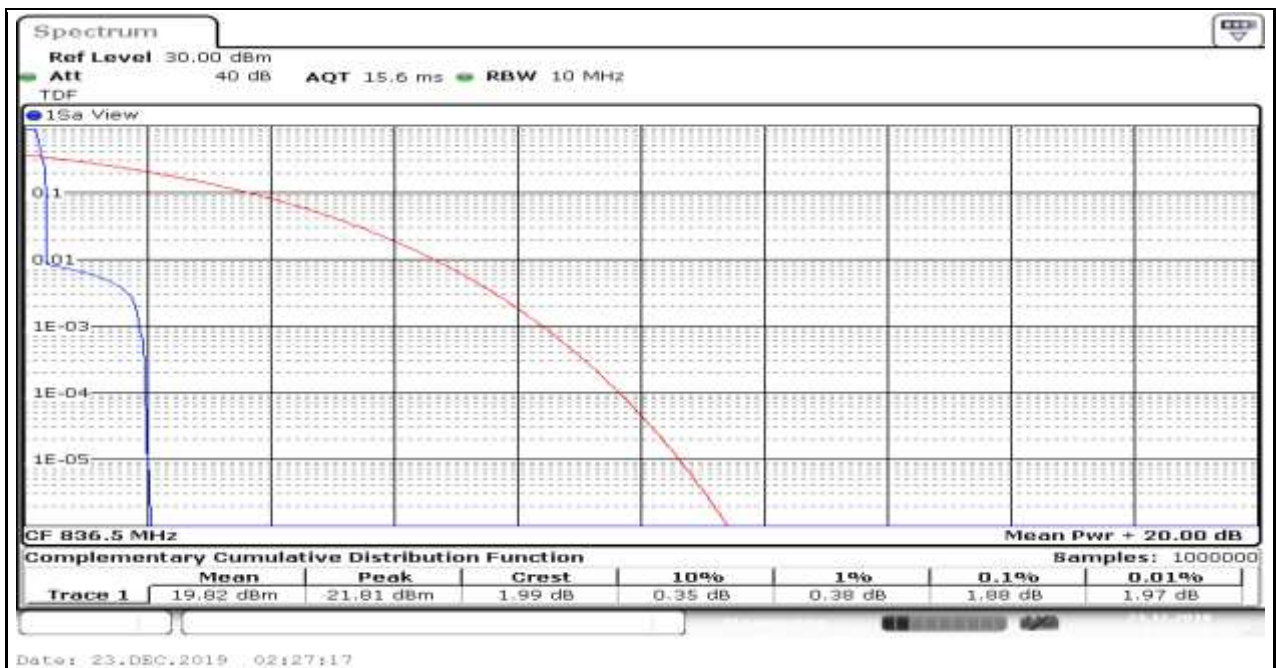
Band26_Stand-Alone_NaN_QPSK_26915_1@0_3.75kHz_1.59_<=13_PASS_



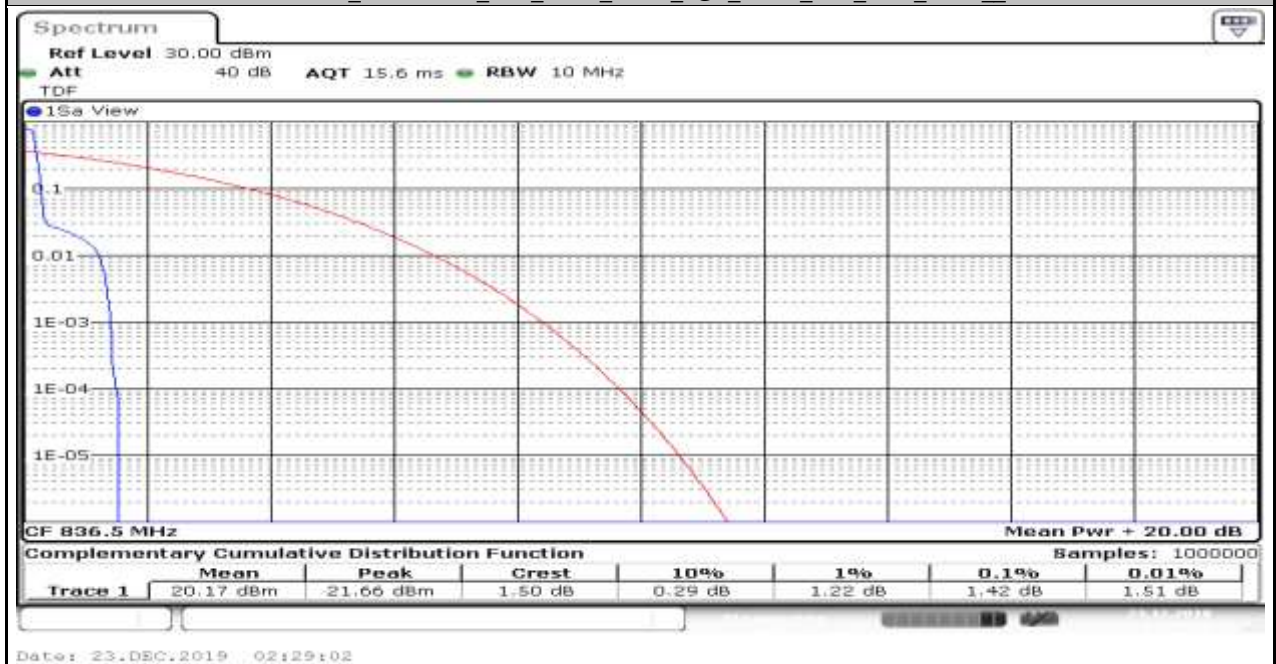
Band26_Stand-Alone_NaN_QPSK_26915_3@3_15kHz_9.57_<=13_PASS_



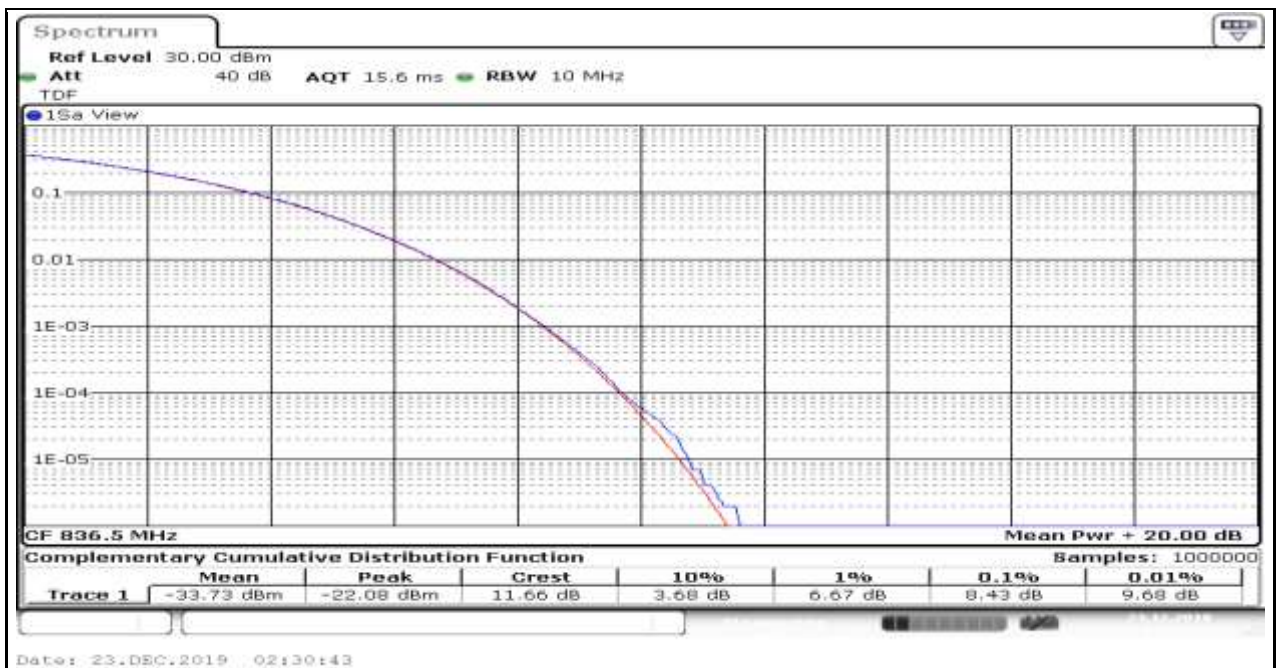
Band26_Stand-Alone_NaN_BPSK_26915_1@47_3.75kHz_1.88_<=13_PASS_



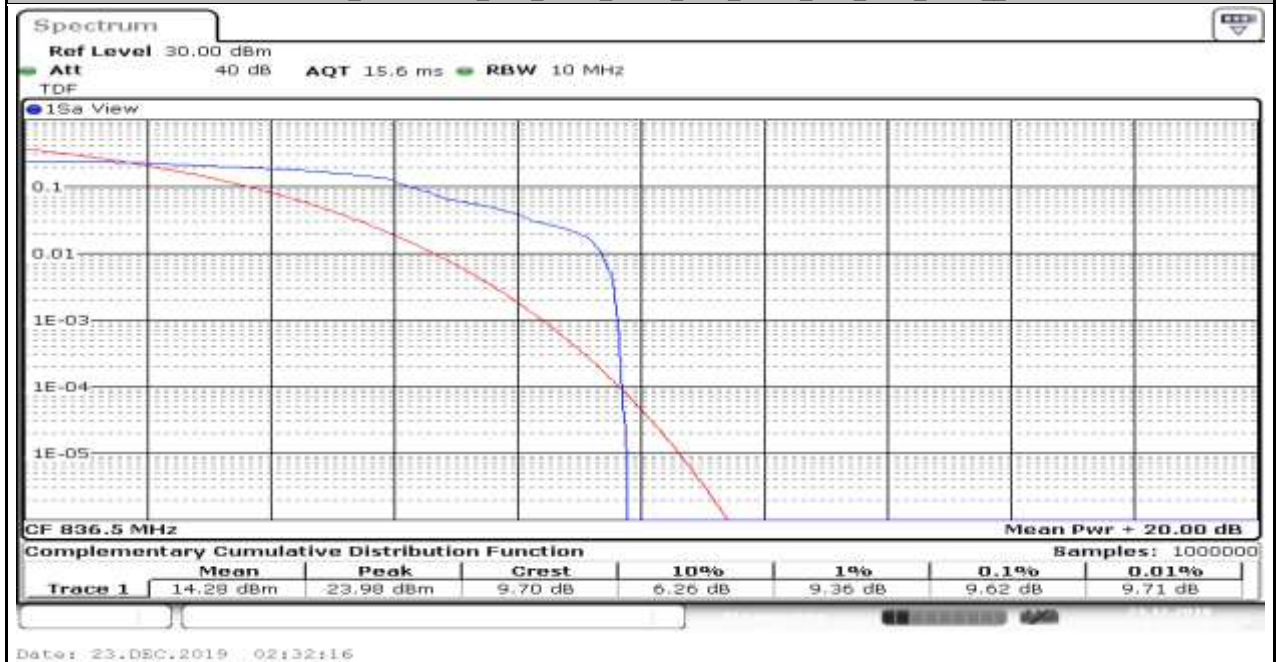
Band26_Stand-Alone_NaN_BPSK_26915_1@0_15kHz_1.42_<=13_PASS__



Band26_Stand-Alone_NaN_BPSK_26915_1@11_15kHz_8.43_<=13_PASS__

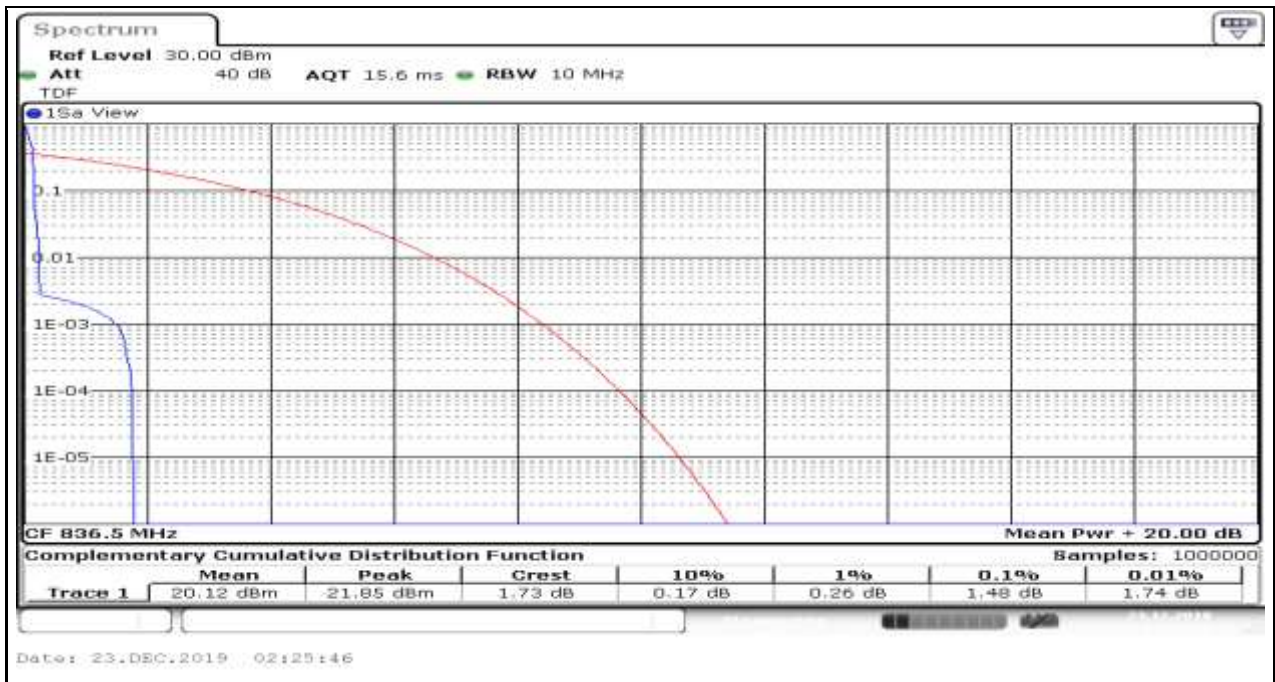


Band26_Stand-Alone_NaN_BPSK_26915_3@3_15kHz_9.62_<=13_PASS__



Band26_Stand-Alone_NaN_BPSK_26915_1@0_3.75kHz_1.48_<=13_PASS__

Produkte
Products

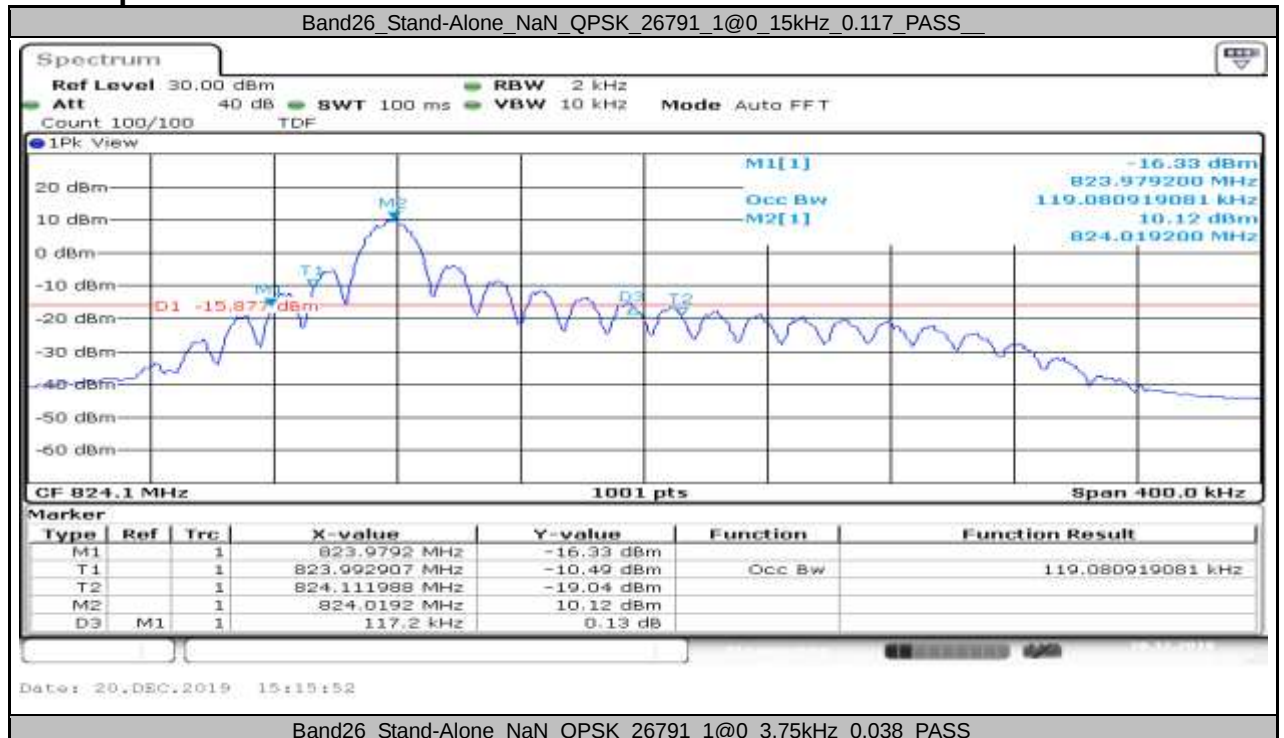


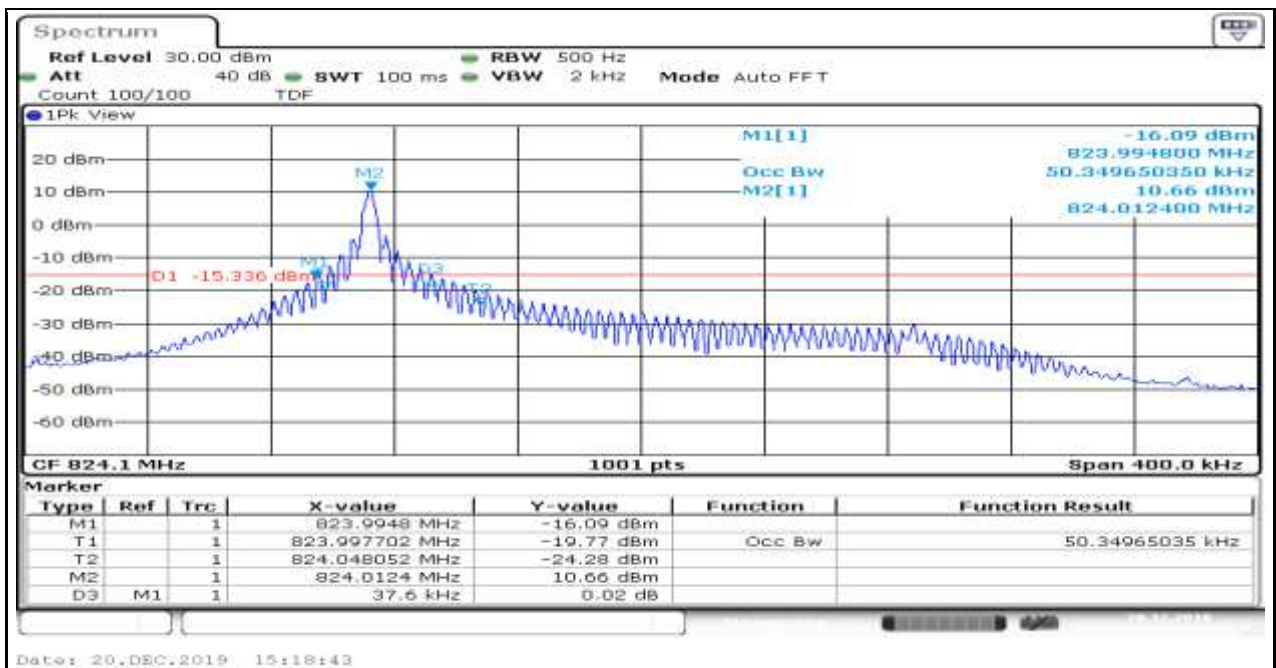
Appendix H.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

Test Result

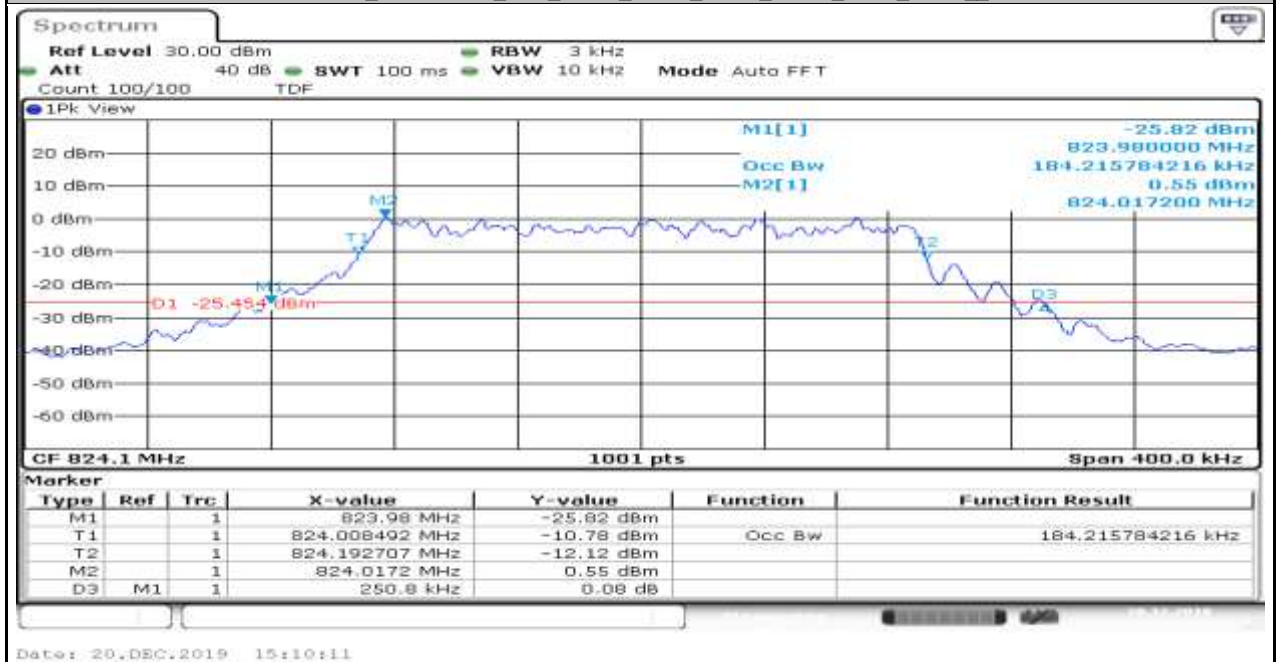
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band26	Stand-Alone	NaN	QPSK	26791	1@0	15kHz	0.117	0.119	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	0.038	0.050	PASS
Band26	Stand-Alone	NaN	QPSK	26791	12@0	15kHz	0.251	0.184	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	0.117	0.120	PASS
Band26	Stand-Alone	NaN	QPSK	26915	12@0	15kHz	0.251	0.183	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	0.038	0.052	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	15kHz	0.117	0.119	PASS
Band26	Stand-Alone	NaN	QPSK	27039	12@0	15kHz	0.251	0.184	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	3.75kHz	0.038	0.050	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	0.106	0.127	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	3.75kHz	0.032	0.054	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	0.106	0.127	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	3.75kHz	0.032	0.054	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	3.75kHz	0.032	0.054	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	0.106	0.127	PASS

Test Graphs

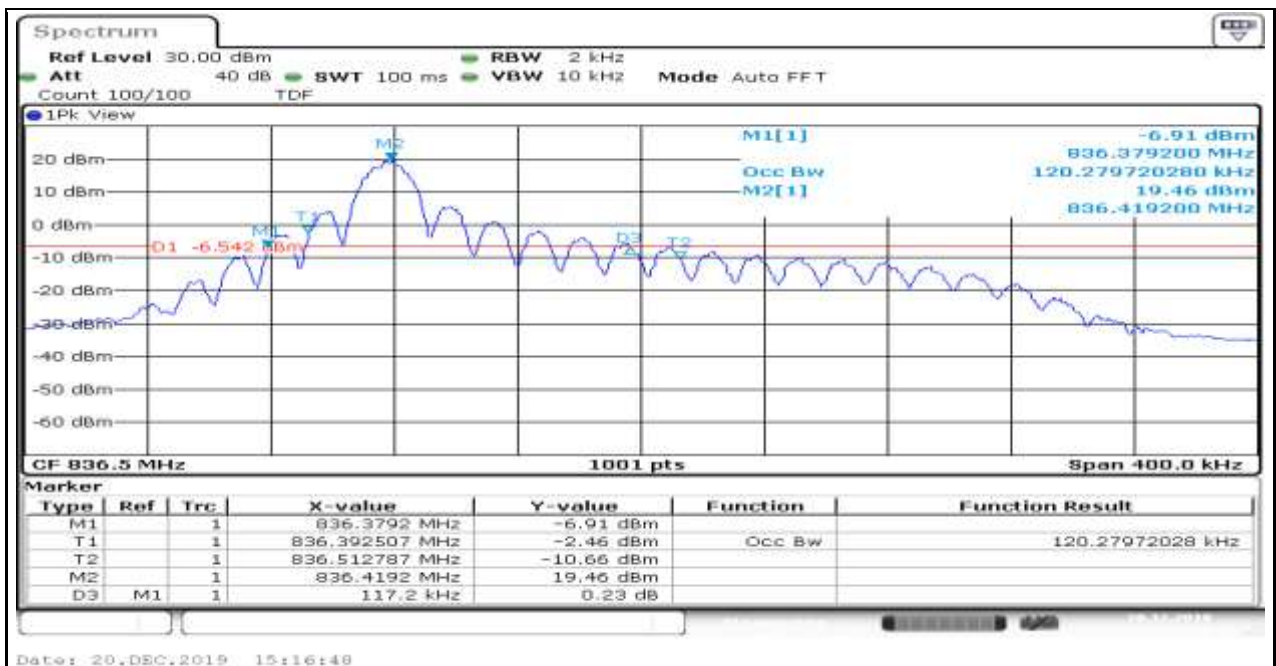




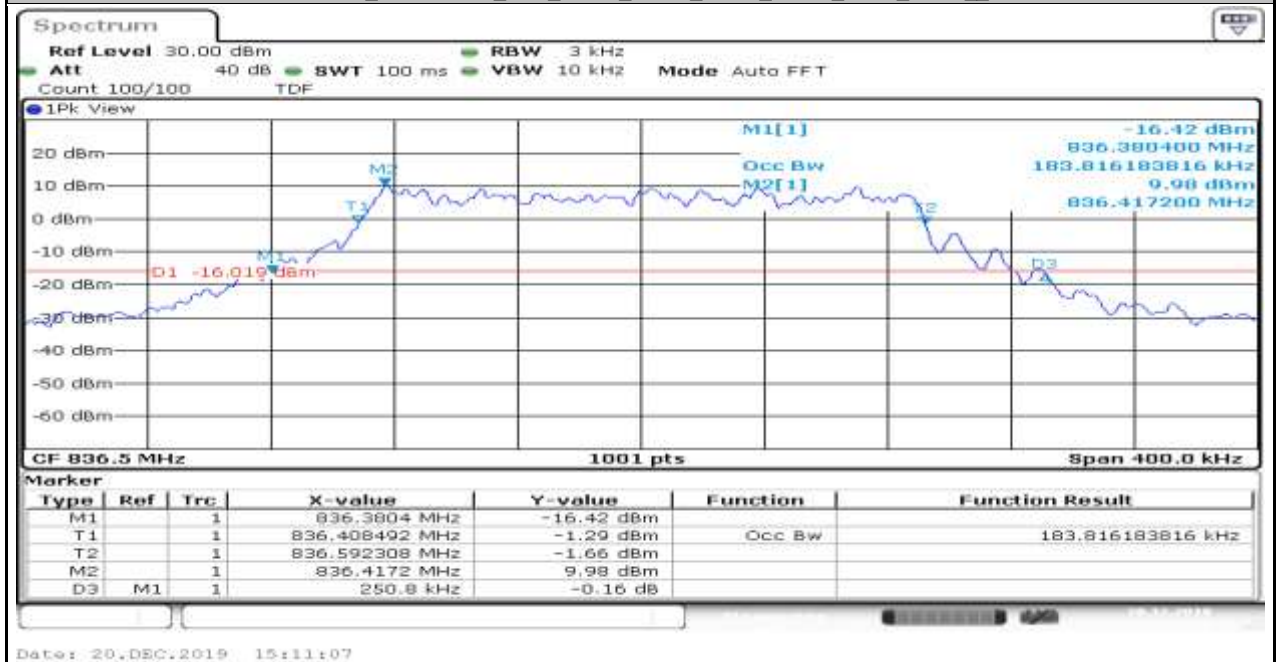
Band26_Stand-Alone_NaN_QPSK_26791_12@0_15kHz_0.251_PASS__



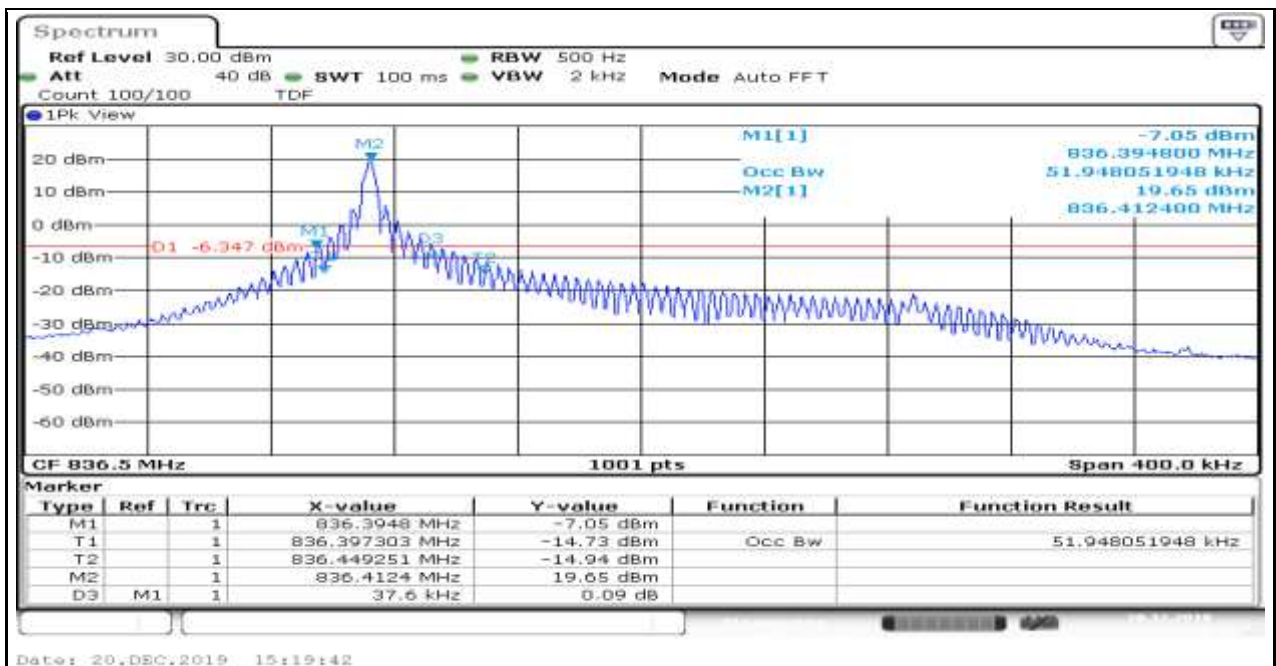
Band26_Stand-Alone_NaN_QPSK_26915_1@0_15kHz_0.117_PASS__



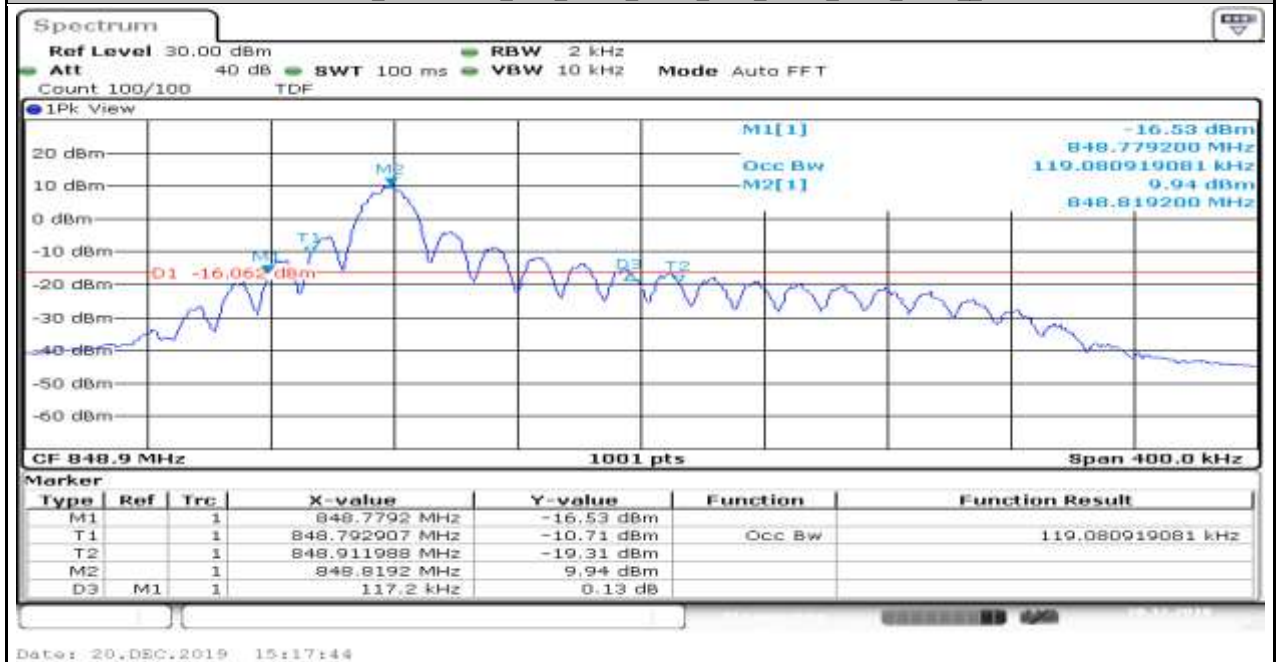
Band26_Stand-Alone_NaN_QPSK_26915_12@0_15kHz_0.251_PASS_



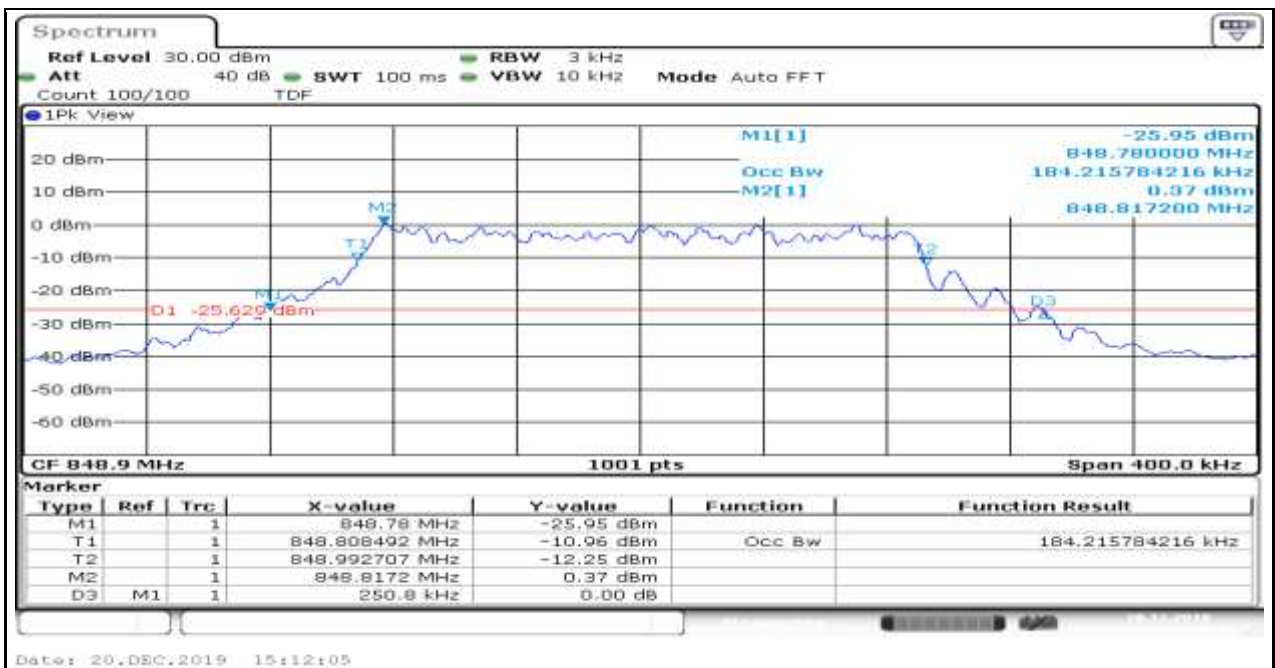
Band26_Stand-Alone_NaN_QPSK_26915_1@0_3.75kHz_0.038_PASS_



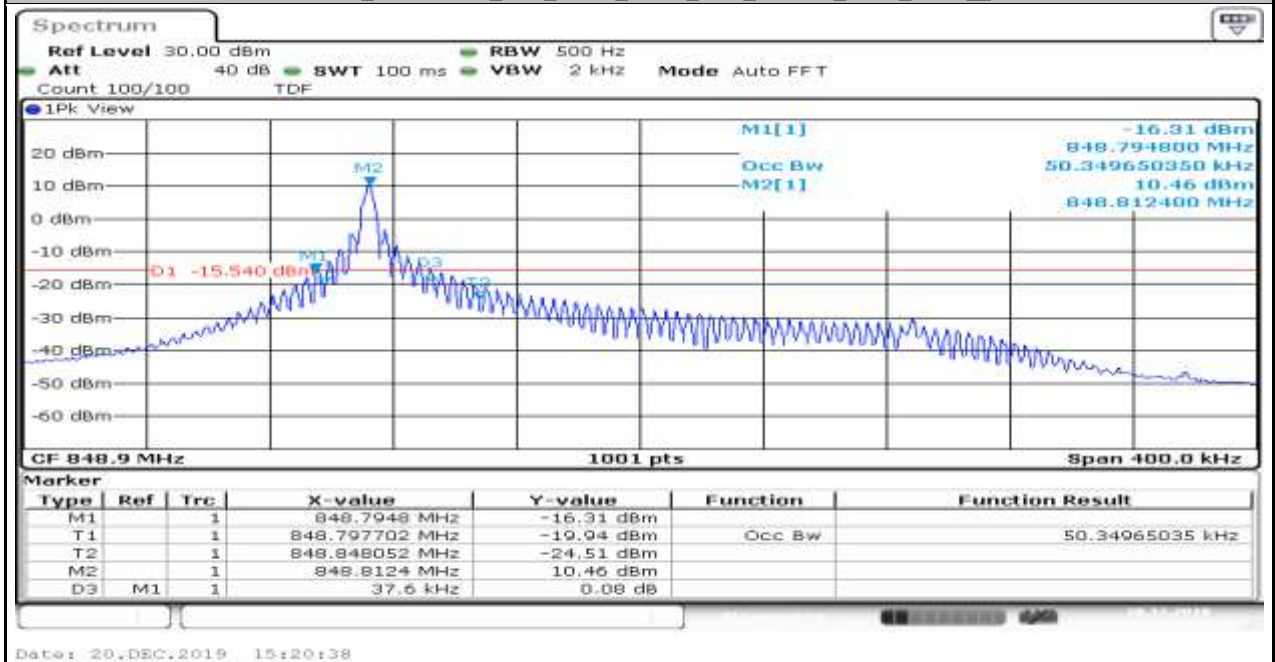
Band26_Stand-Alone_NaN_QPSK_27039_1@0_15kHz_0.117_PASS_



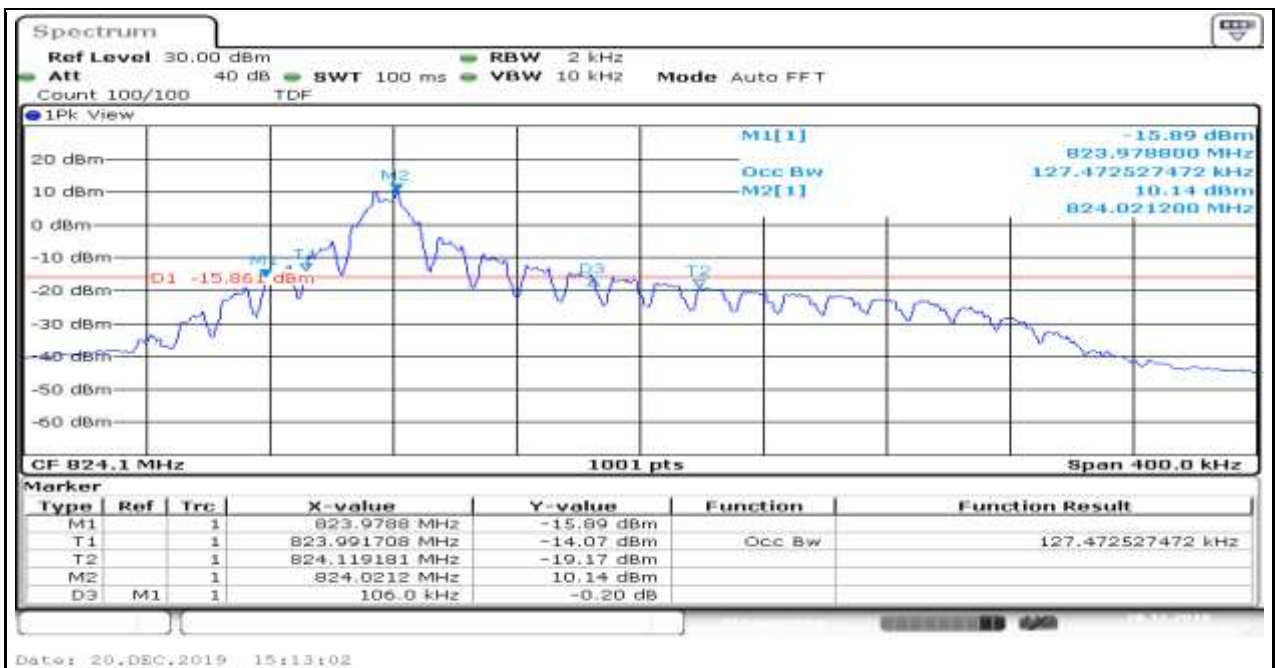
Band26_Stand-Alone_NaN_QPSK_27039_12@0_15kHz_0.251_PASS_



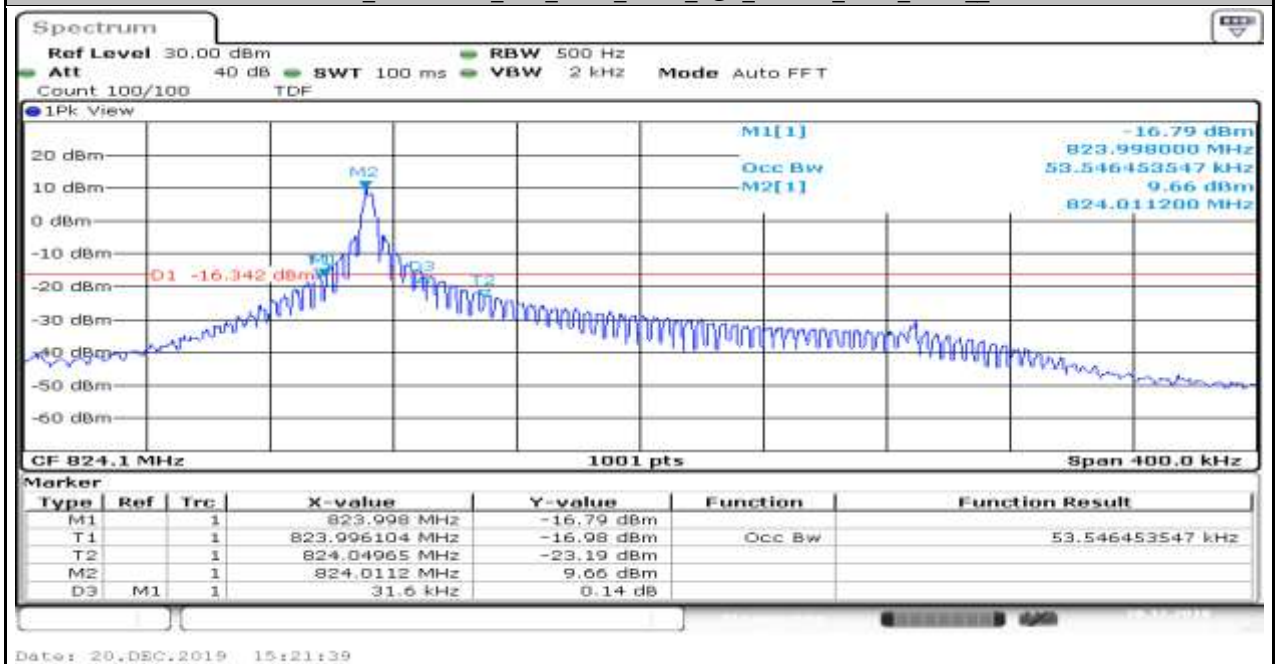
Band26_Stand-Alone_NaN_QPSK_27039_1@0_3.75kHz_0.038_PASS_



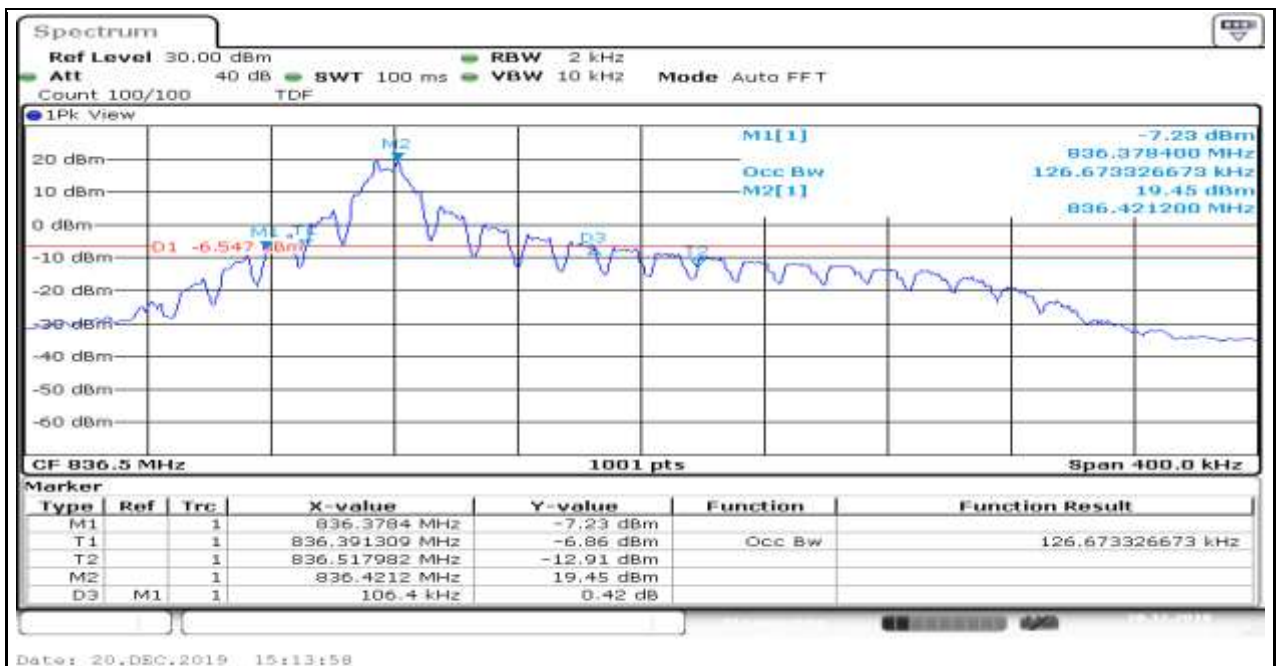
Band26_Stand-Alone_NaN_BPSK_26791_1@0_15kHz_0.106_PASS_



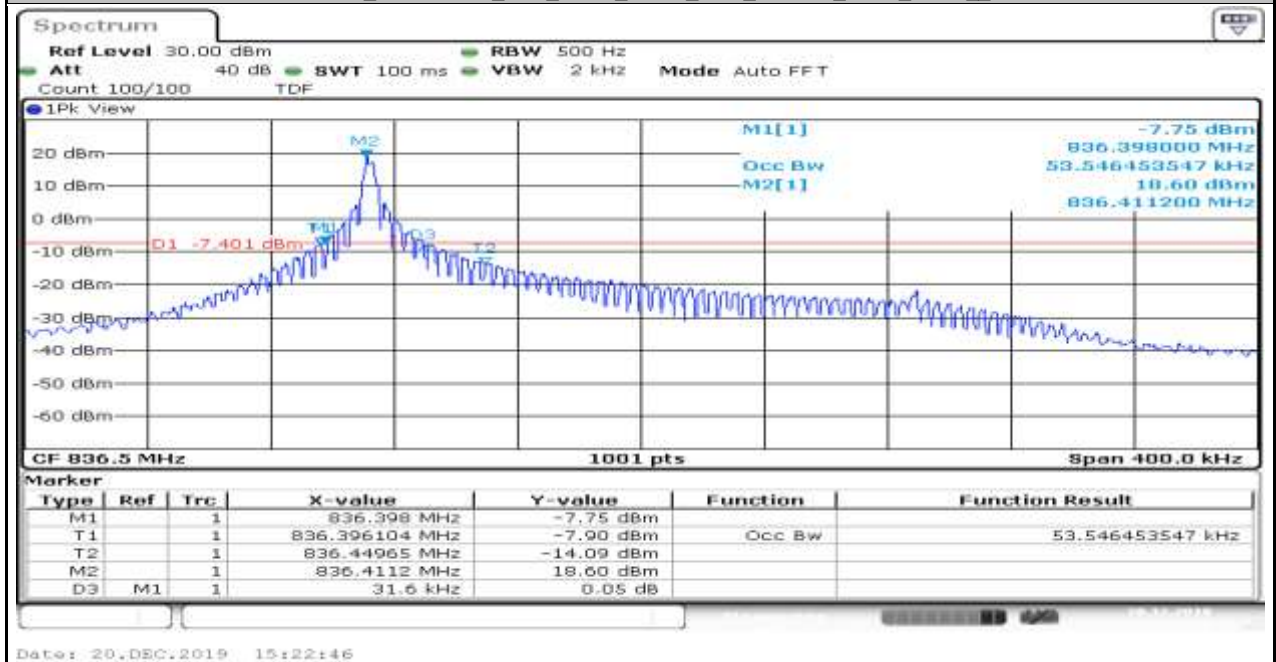
Band26_Stand-Alone_NaN_BPSK_26791_1@0_3.75kHz_0.032_PASS__



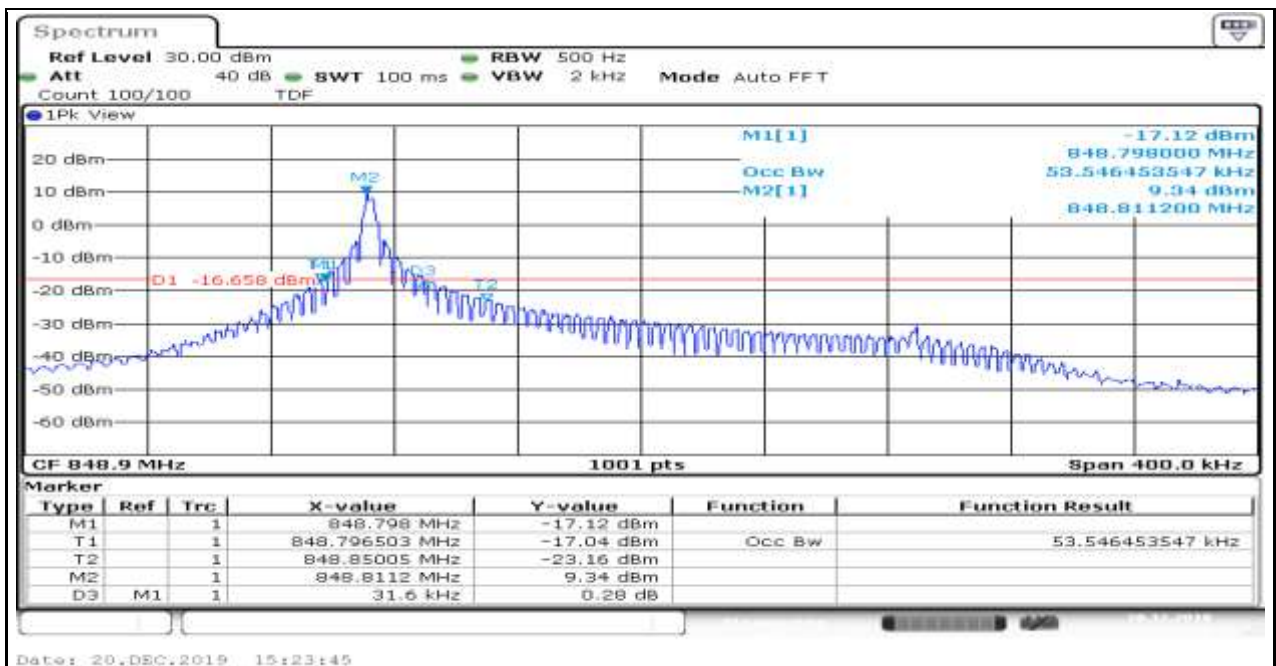
Band26_Stand-Alone_NaN_BPSK_26915_1@0_15kHz_0.106_PASS__



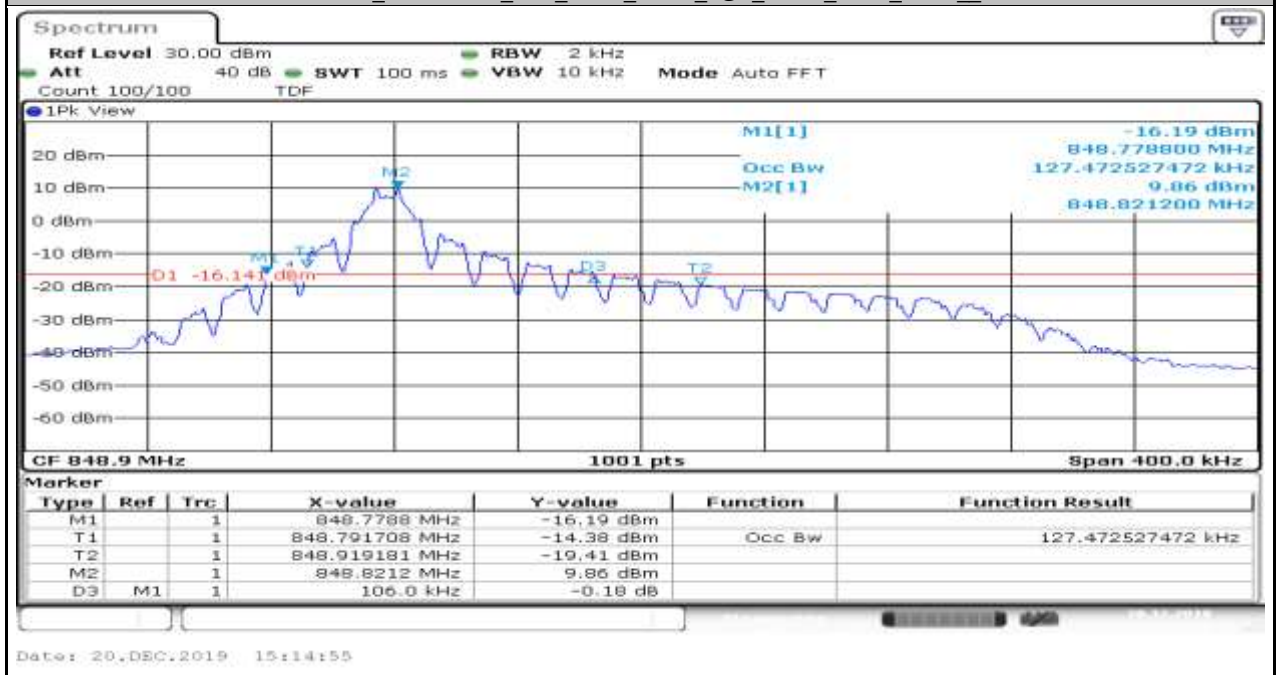
Band26_Stand-Alone_NaN_BPSK_26915_1@0_3.75kHz_0.032_PASS_



Band26_Stand-Alone_NaN_BPSK_27039_1@0_3.75kHz_0.032_PASS_



Band26_Stand-Alone_NaN_BPSK_27039_1@0_15kHz_0.106_PASS_

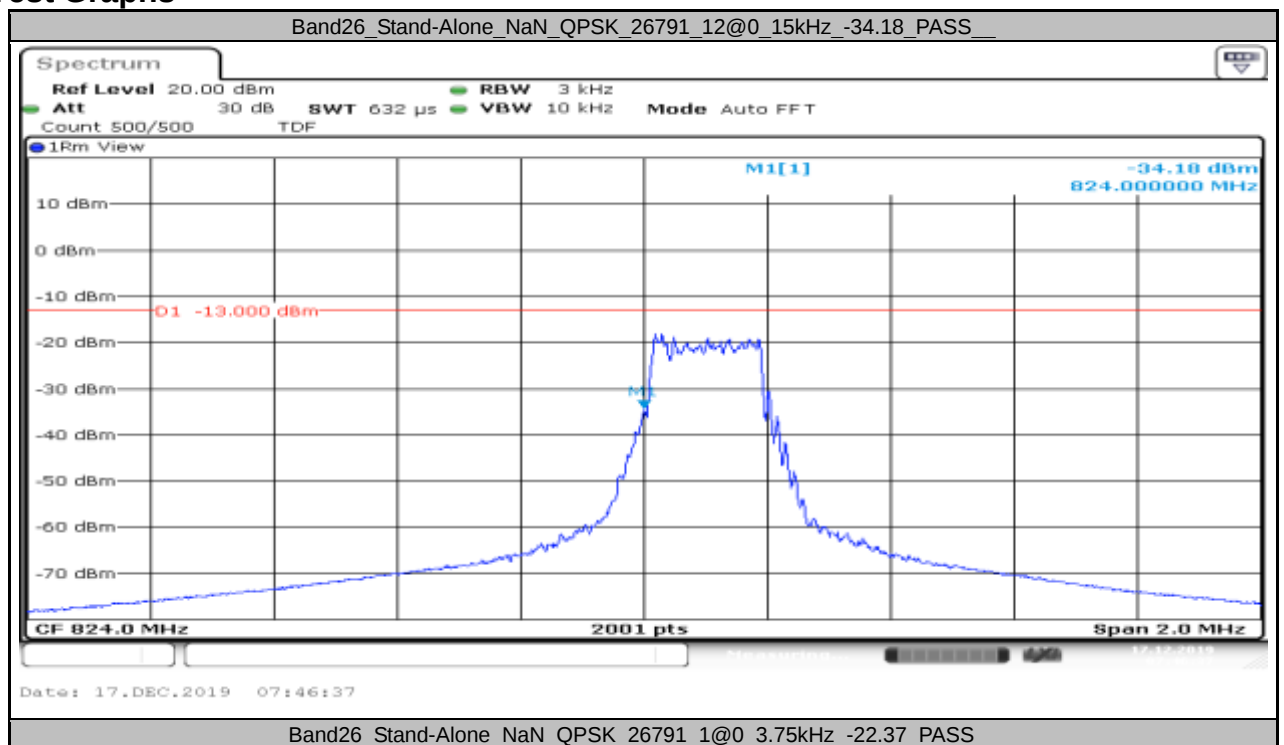


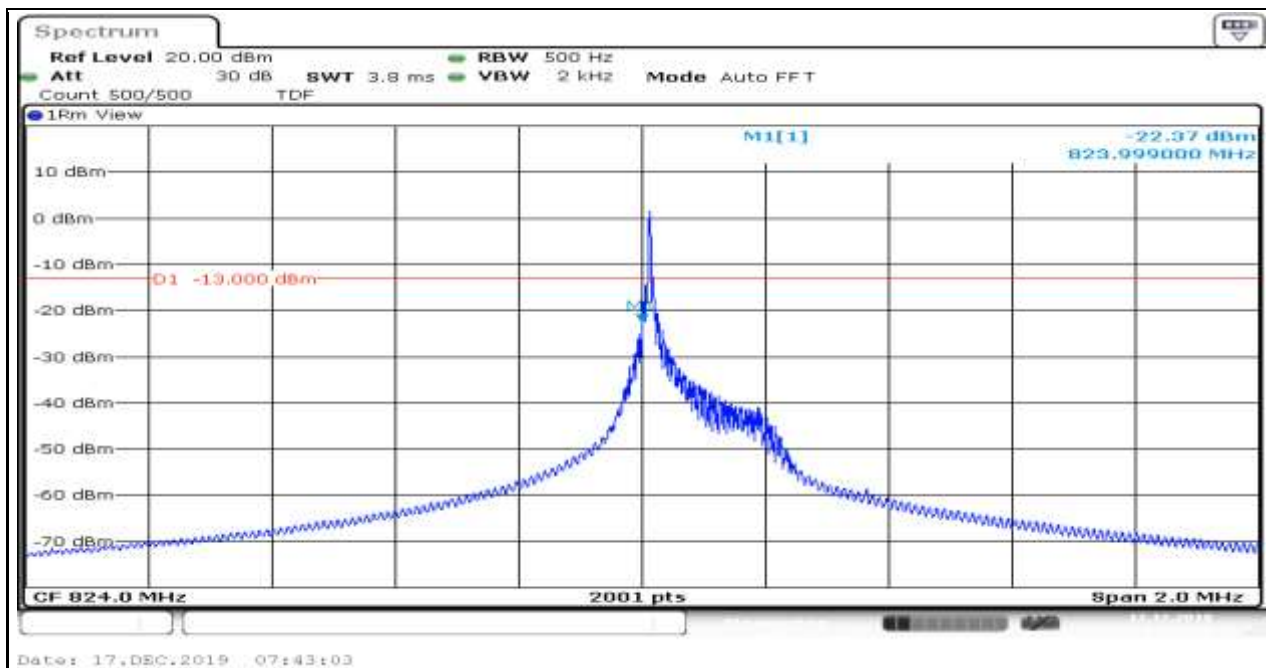
Appendix H.4: Band Edge for NB

Test Result

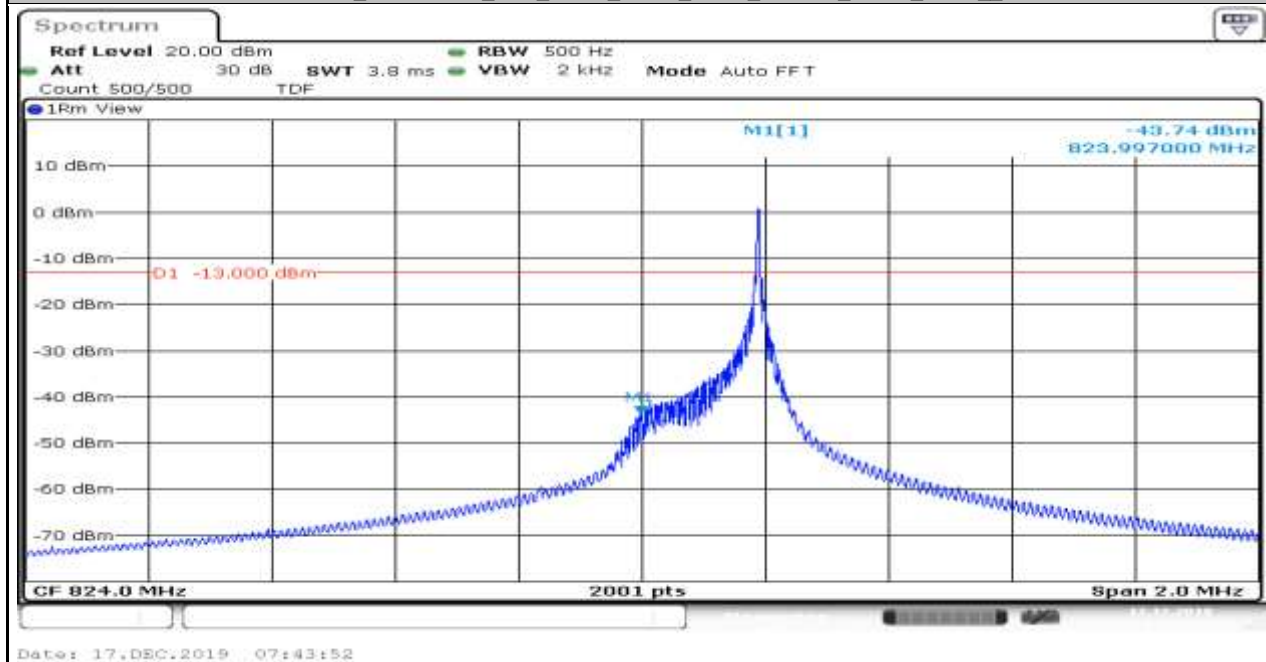
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26791	12@0	15kHz	-34.18	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	-22.37	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@47	3.75kHz	-43.74	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	15kHz	-17.17	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@11	15kHz	-35.21	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@47	3.75kHz	-21.69	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	15kHz	-35.38	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@11	15kHz	-16.52	PASS
Band26	Stand-Alone	NaN	QPSK	27039	12@0	15kHz	-30.3	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	3.75kHz	-43.32	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	3.75kHz	-20.47	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@47	3.75kHz	-42.73	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	-15.01	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@11	15kHz	-33.73	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@11	15kHz	-15.11	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	3.75kHz	-42.41	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@47	3.75kHz	-20.79	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	-34.08	PASS

Test Graphs

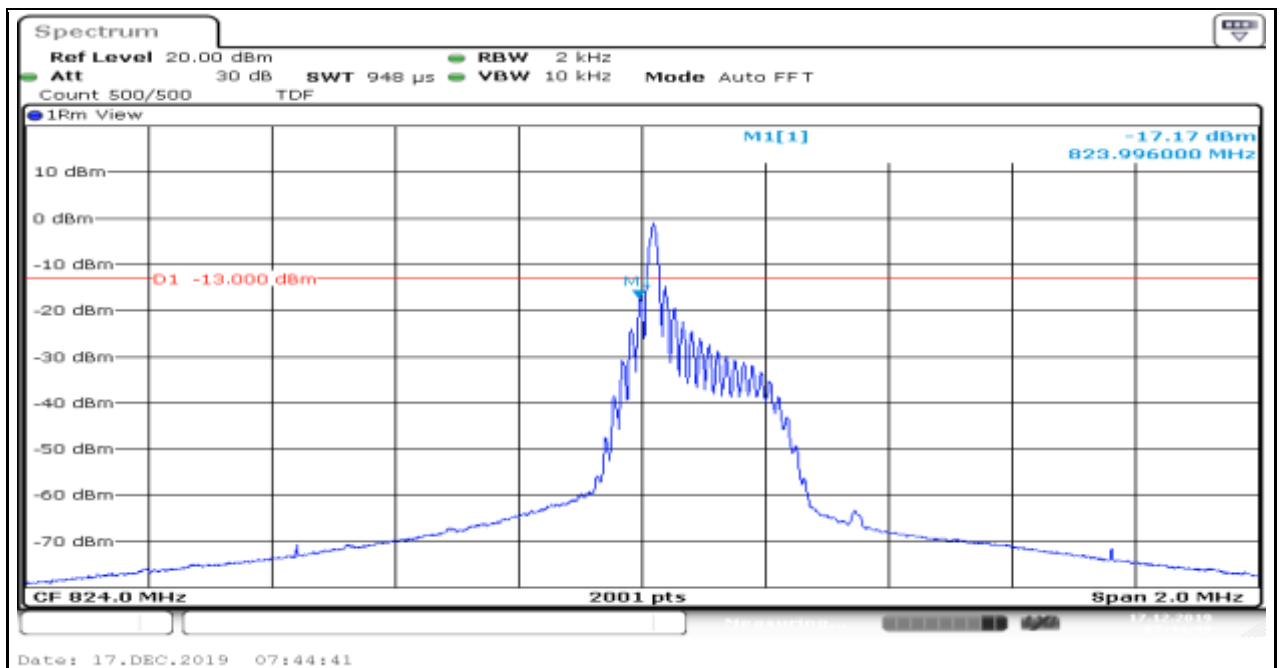




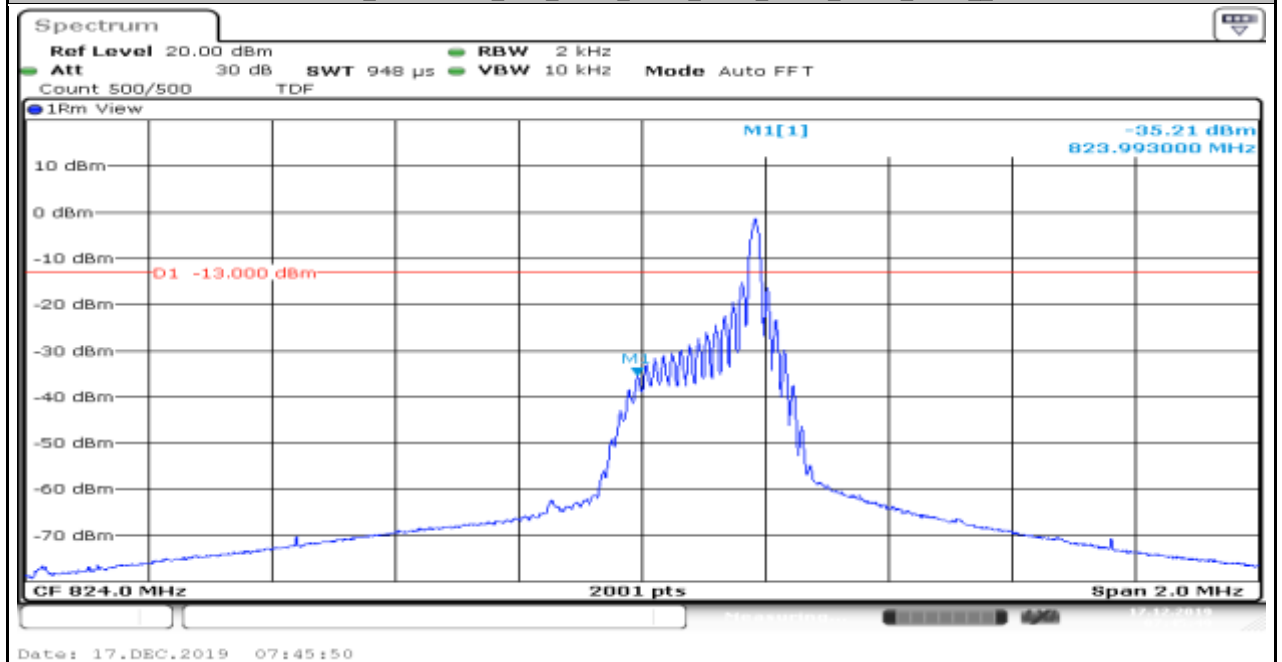
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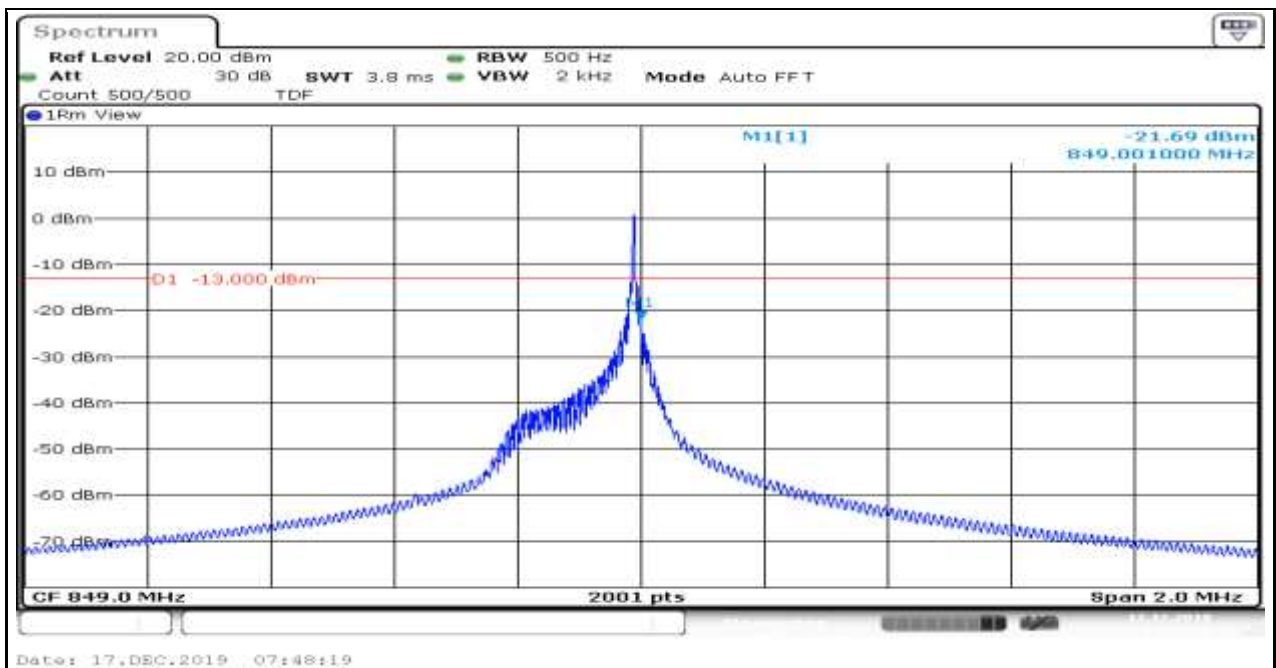
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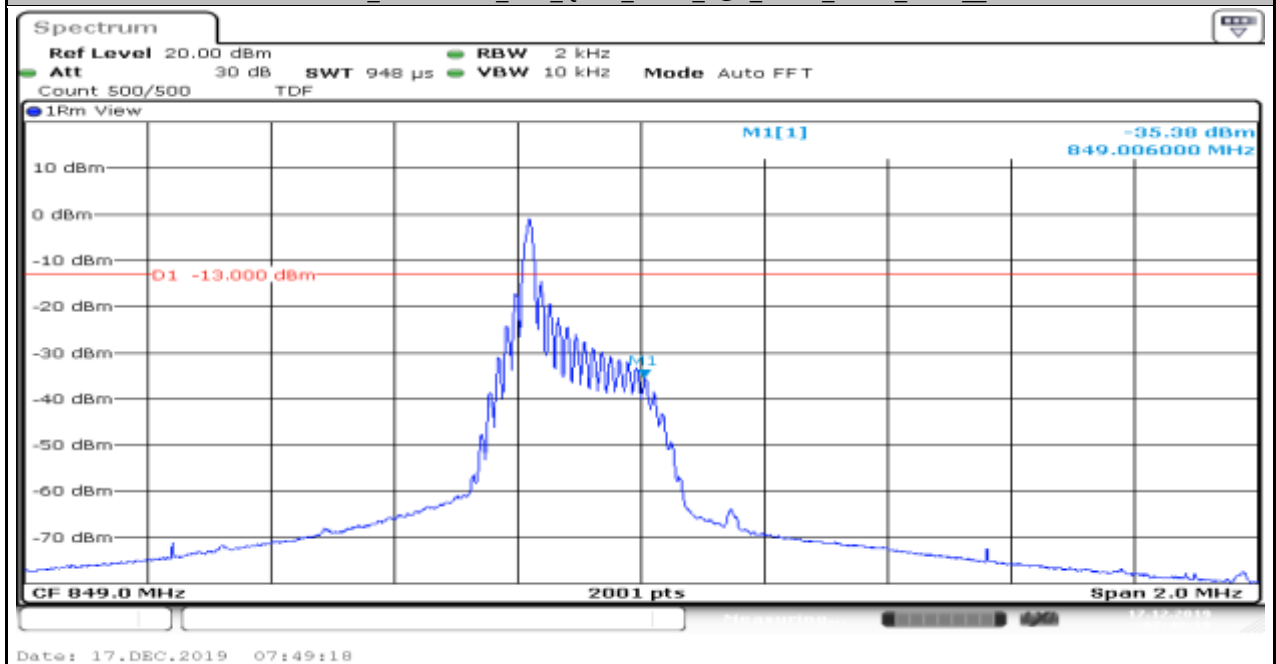
Band26_Stand-Alone_NaN_QPSK_26791_1@11_15kHz_-35.21_PASS_



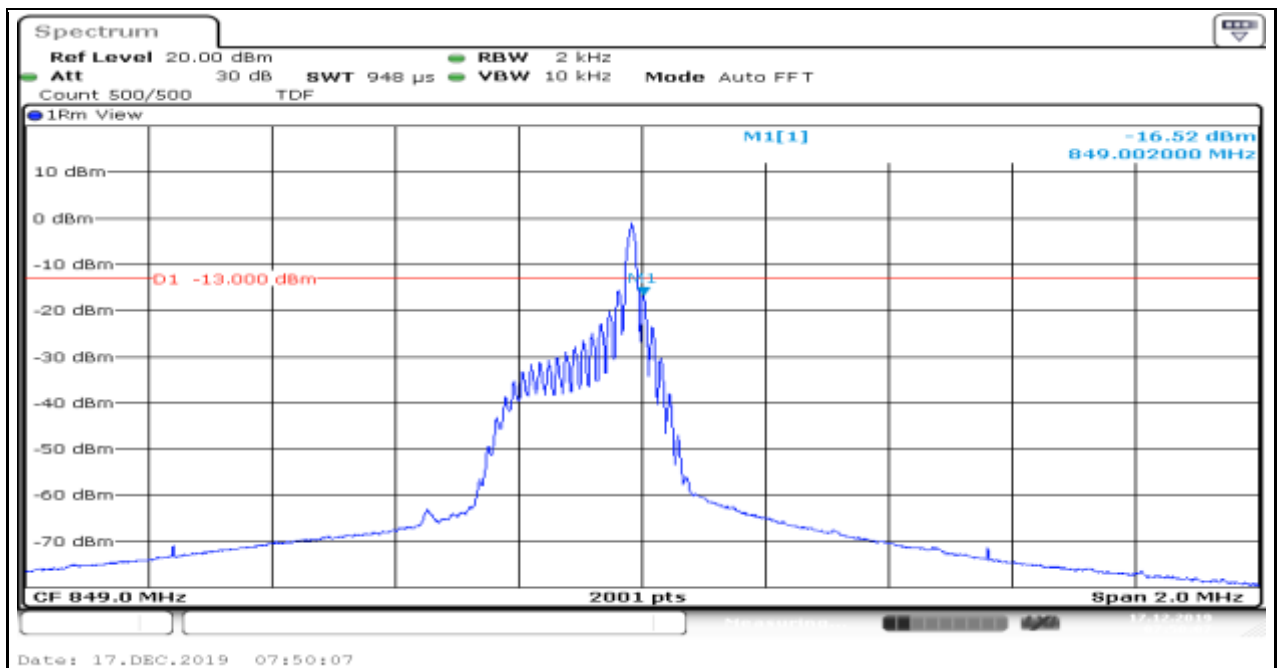
Band26_Stand-Alone_NaN_QPSK_27039_1@47_3.75kHz_-21.69_PASS_



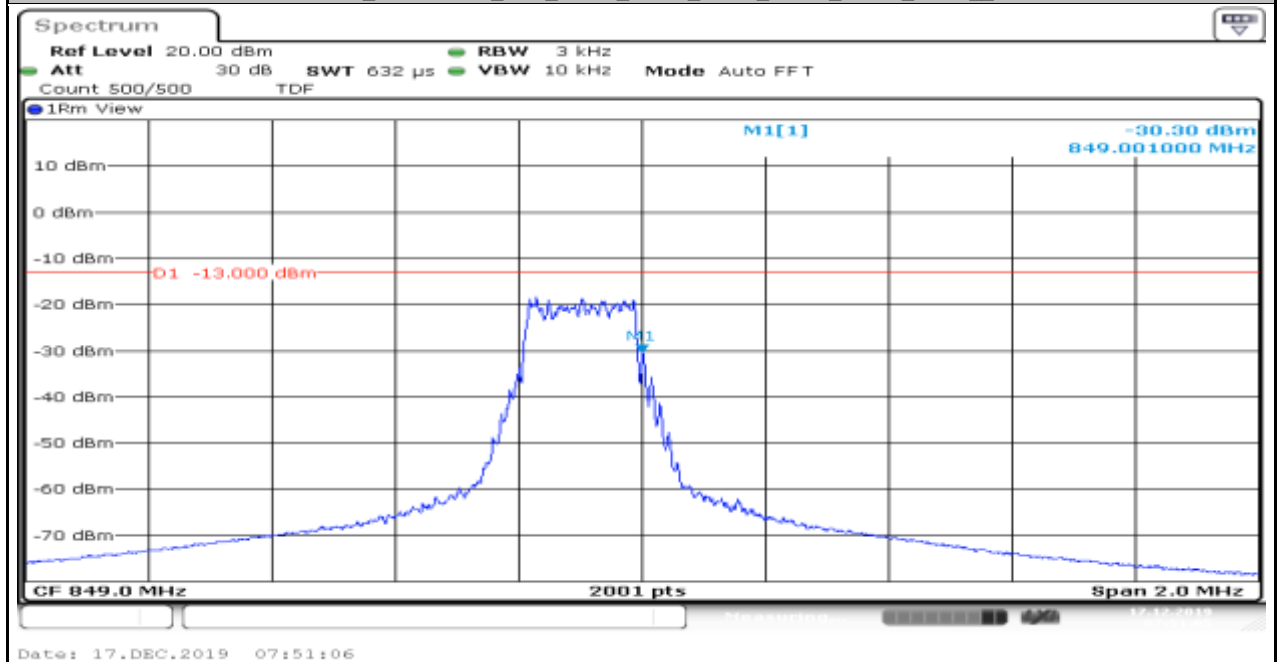
Band26_Stand-Alone_NaN_QPSK_27039_1@0_15kHz_-35.38_PASS_



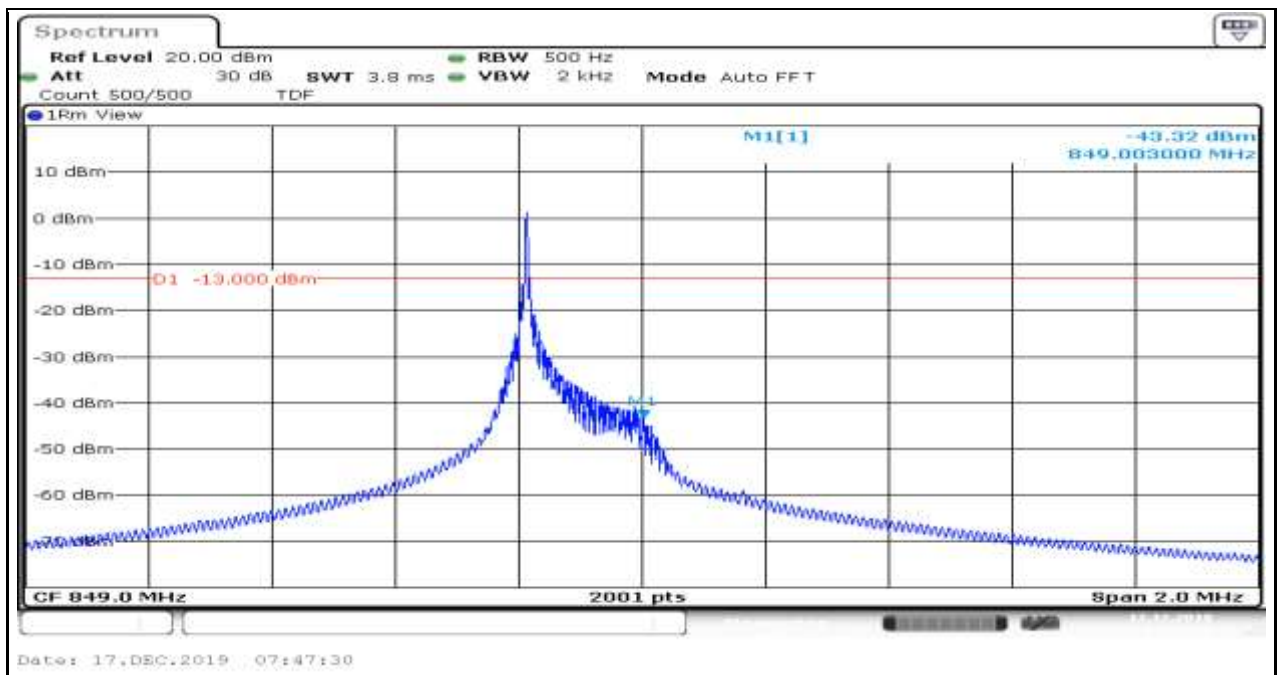
Band26_Stand-Alone_NaN_QPSK_27039_1@11_15kHz_-16.52_PASS_



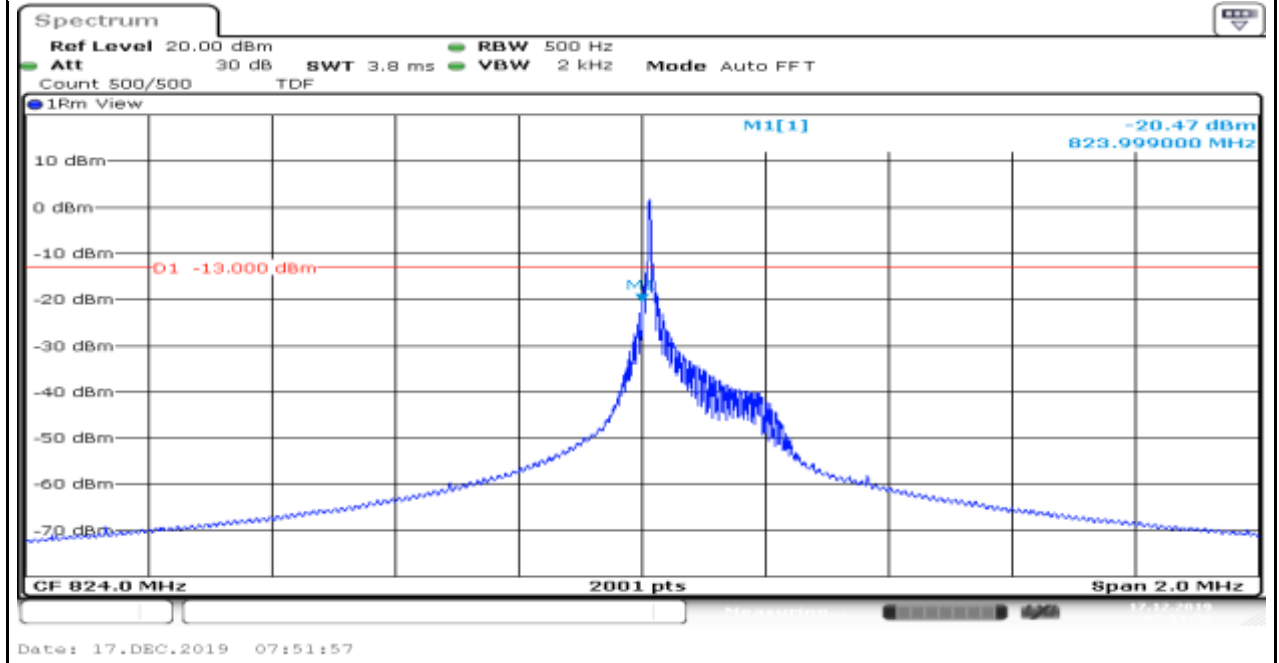
Band26_Stand-Alone_NaN_QPSK_27039_12@0_15kHz_-30.30_PASS_



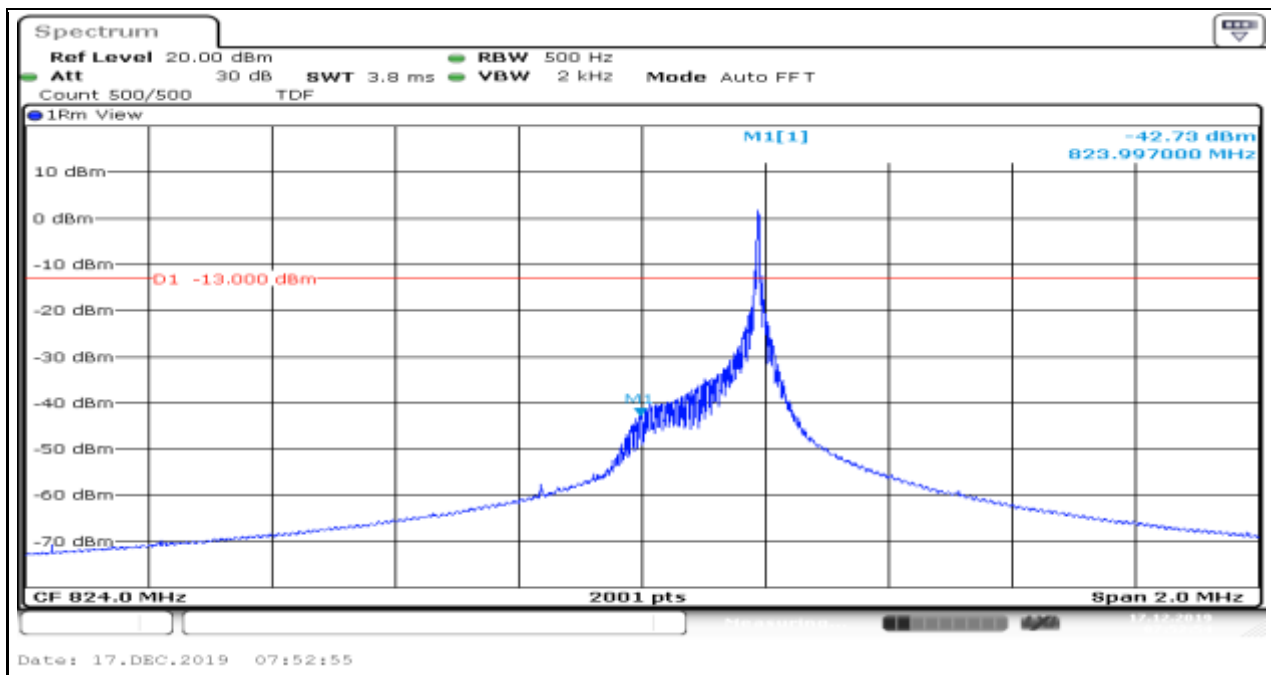
Band26_Stand-Alone_NaN_QPSK_27039_1@0_3.75kHz_-43.32_PASS_



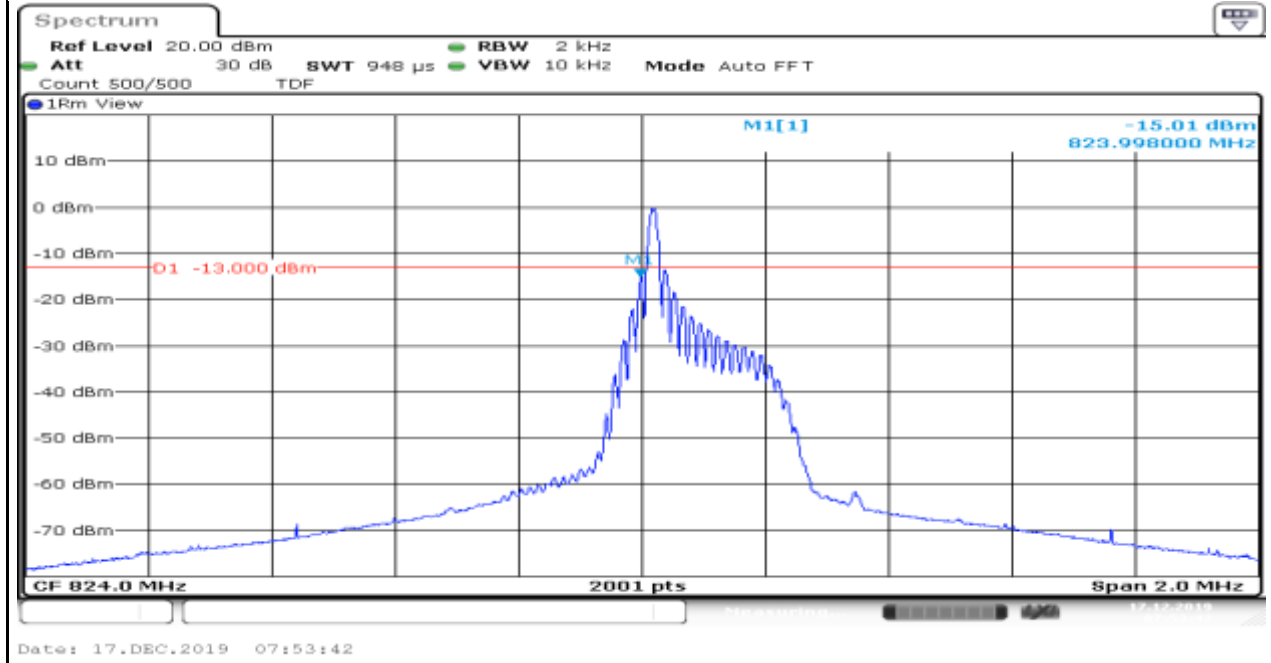
Band26_Stand-Alone_NaN_BPSK_26791_1@0_3.75kHz_-20.47_PASS_



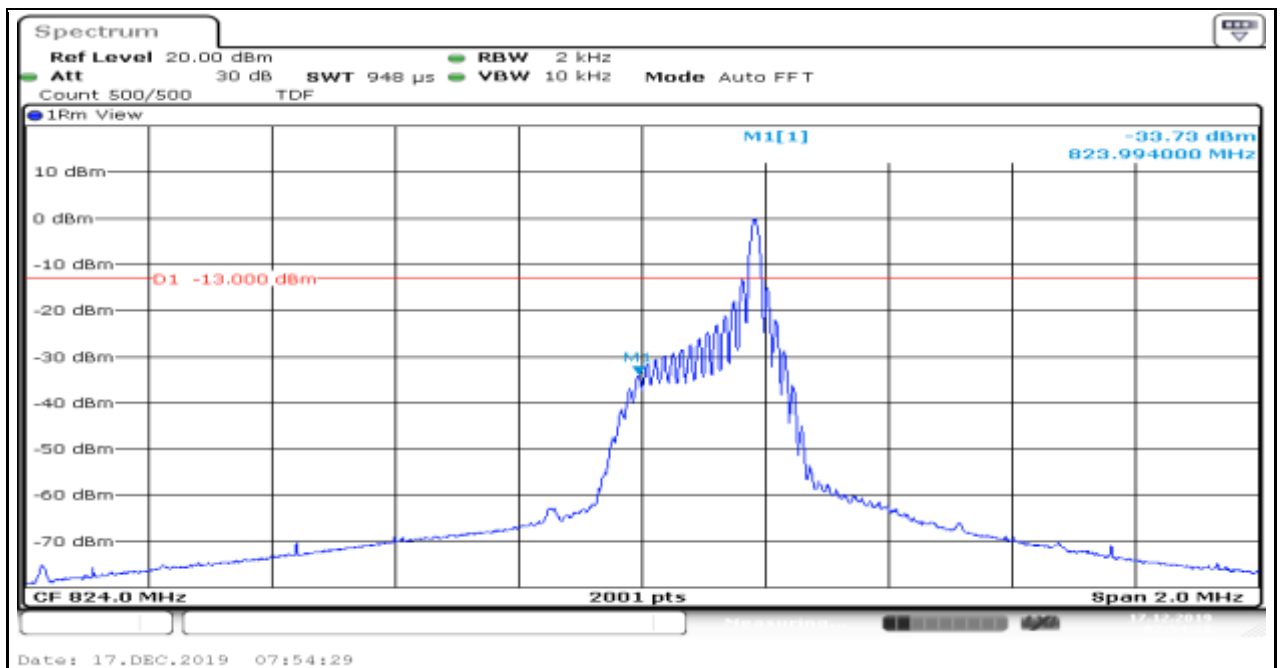
Band26_Stand-Alone_NaN_BPSK_26791_1@47_3.75kHz_-42.73_PASS_



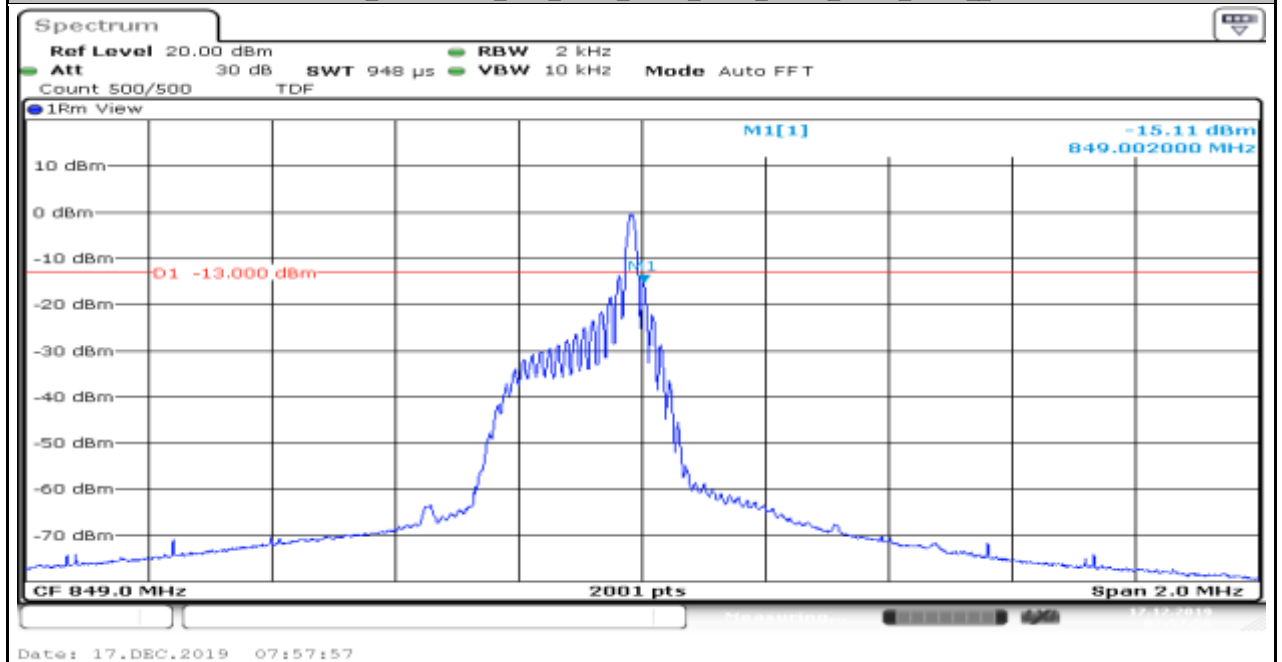
Band26_Stand-Alone_NaN_BPSK_26791_1@0_15kHz_-15.01_PASS_



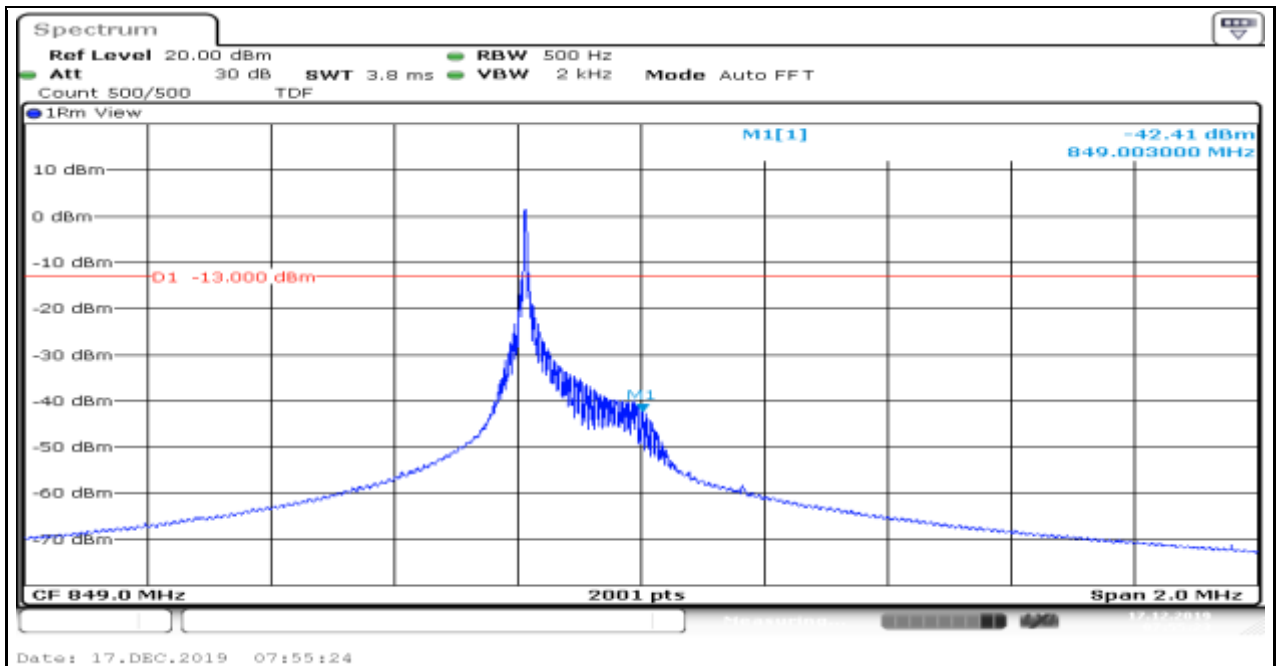
Band26_Stand-Alone_NaN_BPSK_26791_1@11_15kHz_-33.73_PASS_



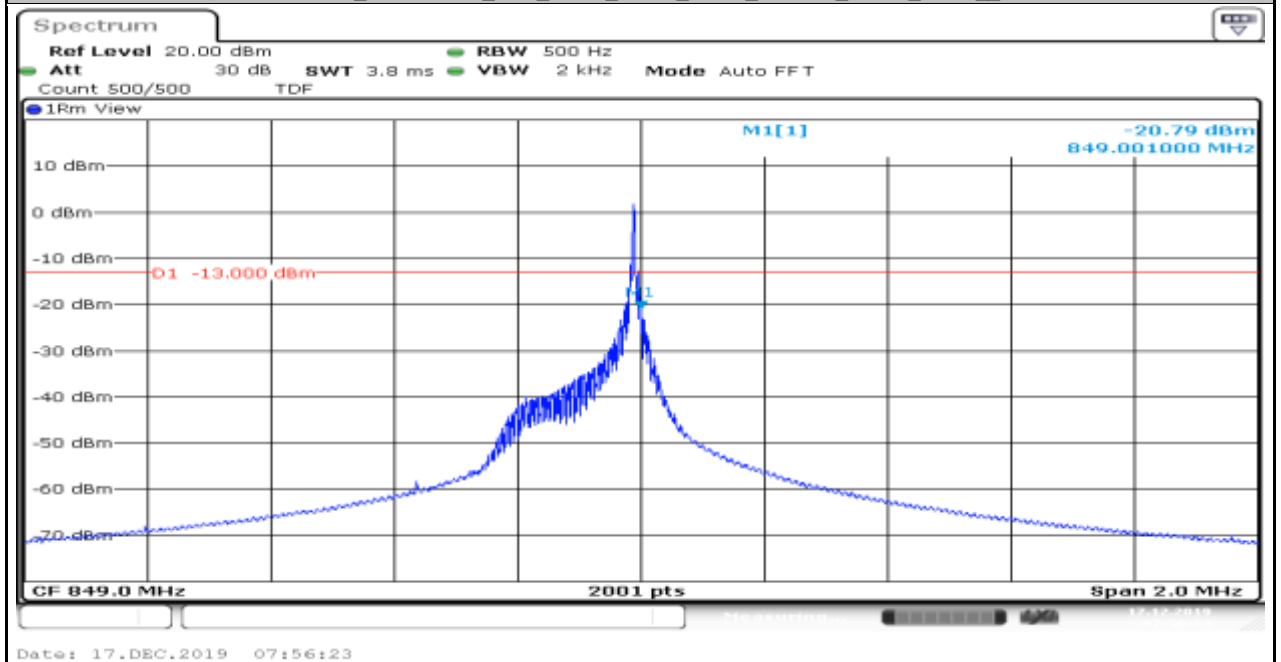
Band26_Stand-Alone_NaN_BPSK_27039_1@11_15kHz_-15.11_PASS_



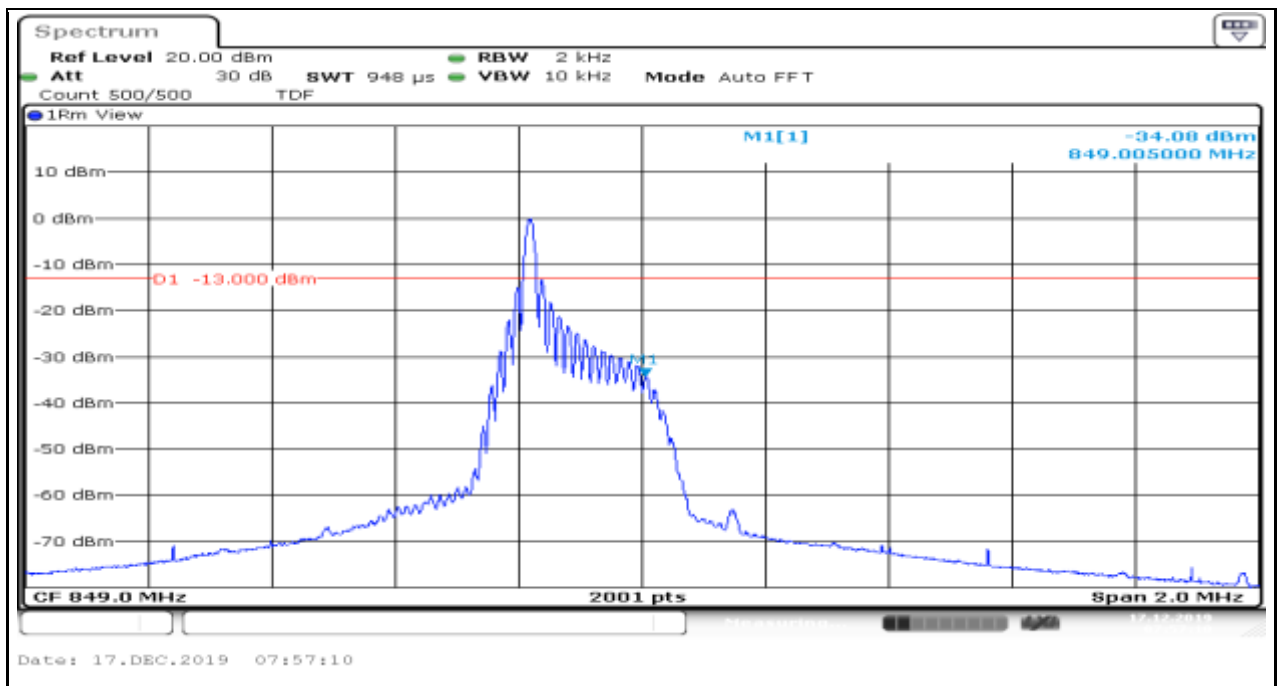
Band26_Stand-Alone_NaN_BPSK_27039_1@0_3.75kHz_-42.41_PASS_



Band26_Stand-Alone_NaN_BPSK_27039_1@47_3.75kHz_-20.79_PASS__



Band26_Stand-Alone_NaN_BPSK_27039_1@0_15kHz_-34.08_PASS__



Appendix H.5: Conducted Spurious Emission for NB

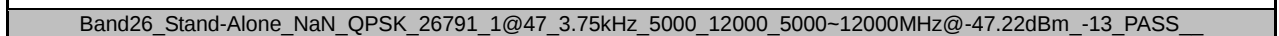
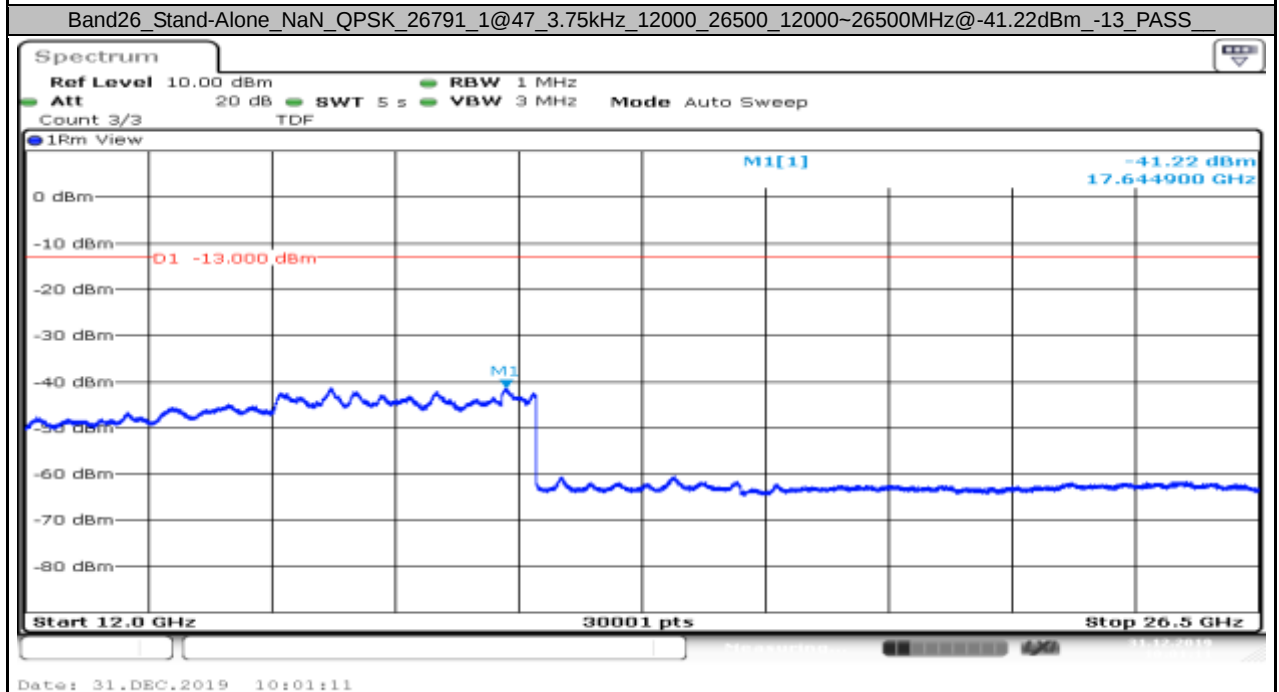
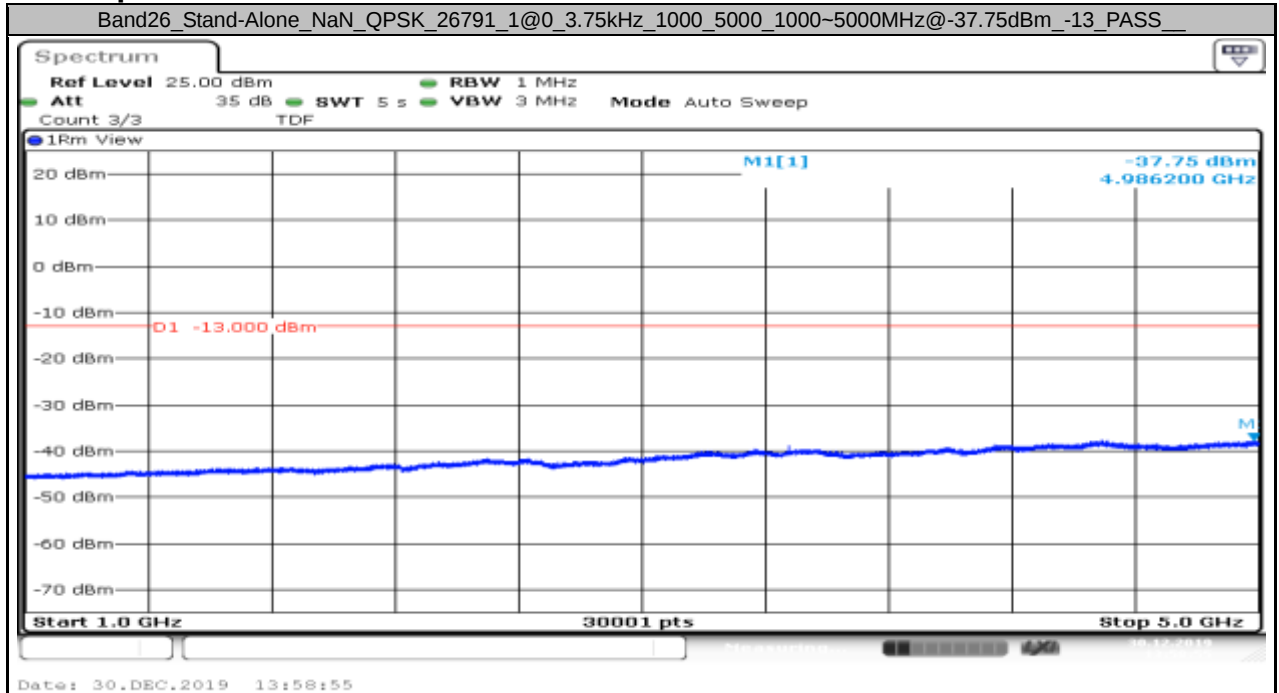
Test Result

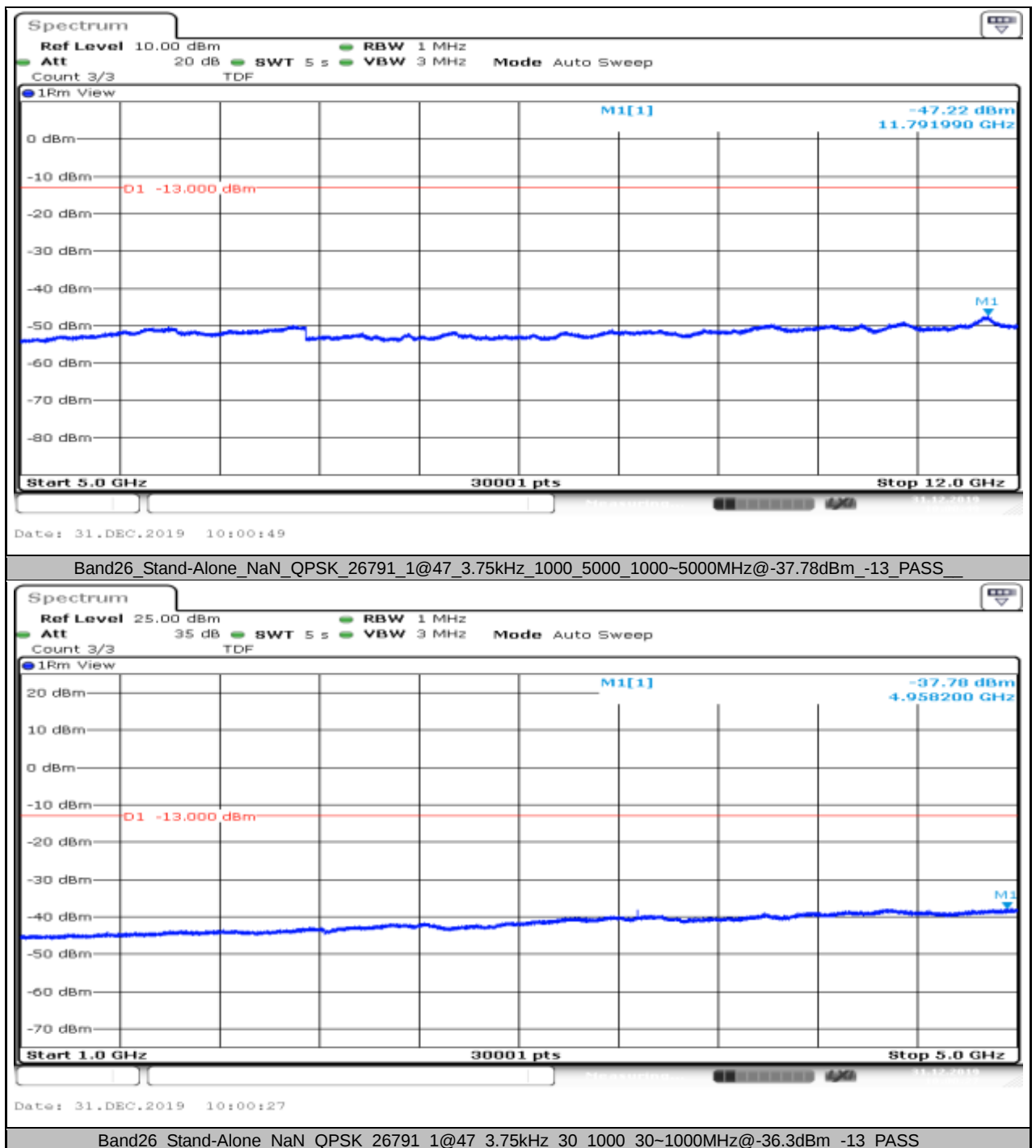
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.75dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.22dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.22dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.78dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@47	3.75kHz	30	1000	30-1000MHz@-36.3dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	30	1000	30-1000MHz@-36.27dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.41dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.49dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	12@0	15kHz	30	1000	30-1000MHz@-36.03dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	12@0	15kHz	1000	5000	1000-5000MHz@-37.85dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	12@0	15kHz	5000	12000	5000-12000MHz@-47.43dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26791	12@0	15kHz	12000	26500	12000-26500MHz@-41.43dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	30	1000	30-1000MHz@-36.03dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.35dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	12@0	15kHz	1000	5000	1000-5000MHz@-37.75dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.8dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	12@0	15kHz	5000	12000	5000-12000MHz@-47.44dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	12@0	15kHz	30	1000	30-1000MHz@-35.8dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.52dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.43dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	12@0	15kHz	12000	26500	12000-26500MHz@-41.29dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.76dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.47dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	30	1000	30-1000MHz@-35.74dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	12@0	15kHz	1000	5000	1000-5000MHz@-37.94dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	12@0	15kHz	5000	12000	5000-12000MHz@-47.02dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	3.75kHz	30	1000	30-1000MHz@-35.73dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	12@0	15kHz	30	1000	30-1000MHz@-35.22dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	3.75kHz	5000	12000	5000-12000MHz@-47.37dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	12@0	15kHz	12000	26500	12000-26500MHz@-41.46dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	3.75kHz	1000	5000	1000-5000MHz@-37.79dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@0	3.75kHz	12000	26500	12000-26500MHz@-41.48dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@47	3.75kHz	30	1000	30-1000MHz@-35.47dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@47	3.75kHz	1000	5000	1000-5000MHz@-37.62dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@47	3.75kHz	5000	12000	5000-12000MHz@-47.57dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	27039	1@47	3.75kHz	12000	26500	12000-26500MHz@-41.22dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	1000	5000	1000-5000MHz@-37.66dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@11	15kHz	5000	12000	5000-12000MHz@-47.58dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@11	15kHz	1000	5000	1000-5000MHz@-37.91dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@11	15kHz	30	1000	30-1000MHz@-35.9dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	5000	12000	5000-12000MHz@-47.46dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@11	15kHz	12000	26500	12000-26500MHz@-41.22dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	30	1000	30-1000MHz@-35.87dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26791	1@0	15kHz	12000	26500	12000-26500MHz@-41.54dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@11	15kHz	30	1000	30-1000MHz@-35.06dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@11	15kHz	5000	12000	5000-12000MHz@-47.56dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@11	15kHz	12000	26500	12000-26500MHz@-41.39dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@11	15kHz	1000	5000	1000-5000MHz@-37.71dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	12000	26500	12000-26500MHz@-41.35dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	5000	12000	5000-12000MHz@-47.39dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	30	1000	30-1000MHz@-35.77dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26915	1@0	15kHz	1000	5000	1000-5000MHz@-37.85dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@11	15kHz	12000	26500	12000-26500MHz@-41.42dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	30	1000	30-1000MHz@-35.38dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	1000	5000	1000-5000MHz@-37.83dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	5000	12000	5000-12000MHz@-47.44dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@0	15kHz	12000	26500	12000-26500MHz@-41.43dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@11	15kHz	30	1000	30-1000MHz@-36.24dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	27039	1@11	15kHz	1000	5000	1000-5000MHz@-37.89dBm	-13	PASS

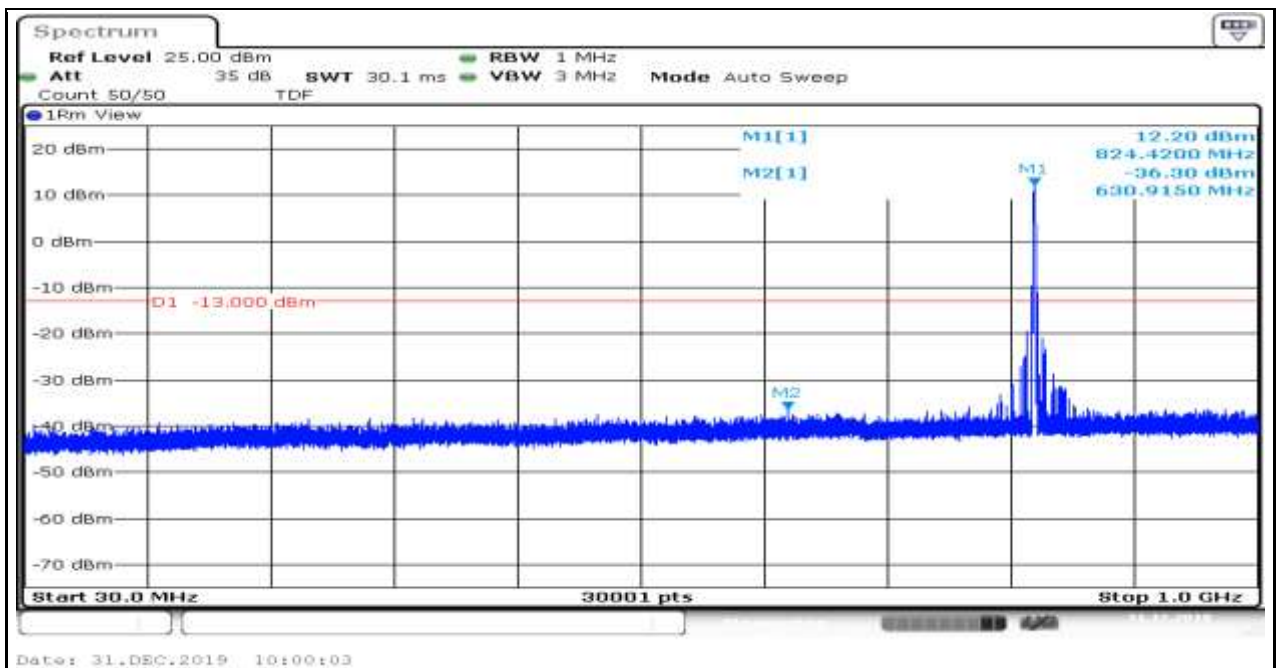
Produkte
Products

Band26	Stand-Alone	NaN	BPSK	27039	1@11	15kHz	5000	12000	5000~12000MHz@-47.3dBm	-13	PASS
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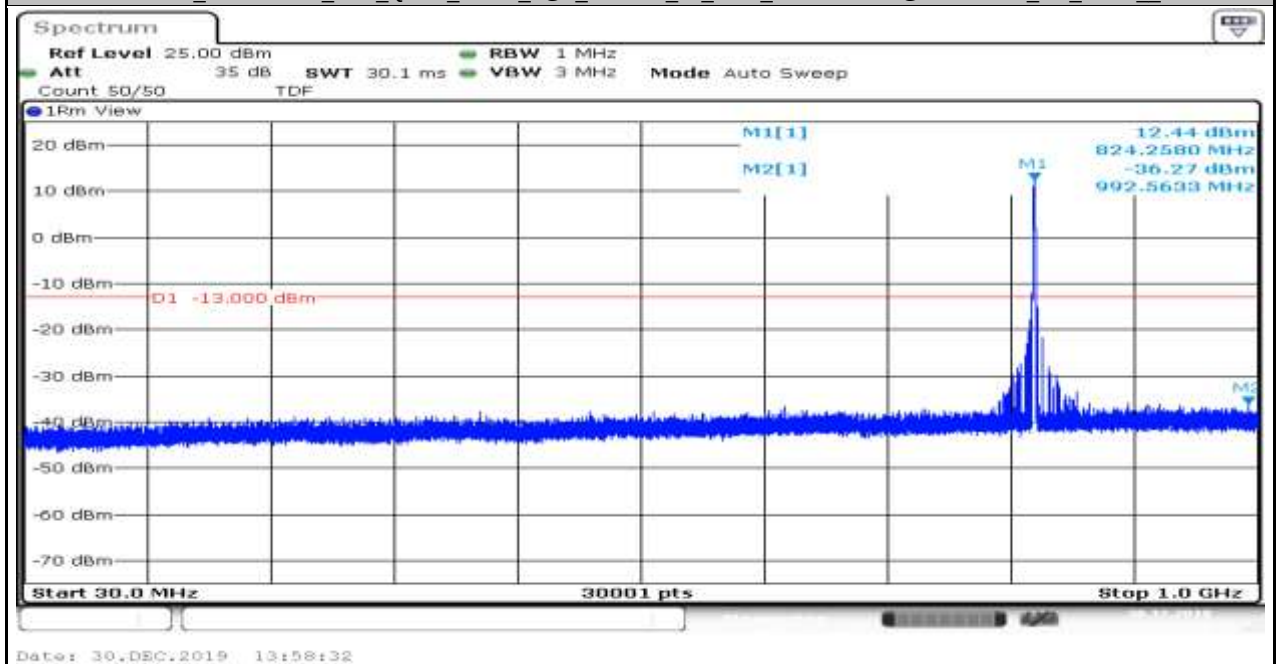
Test Graphs



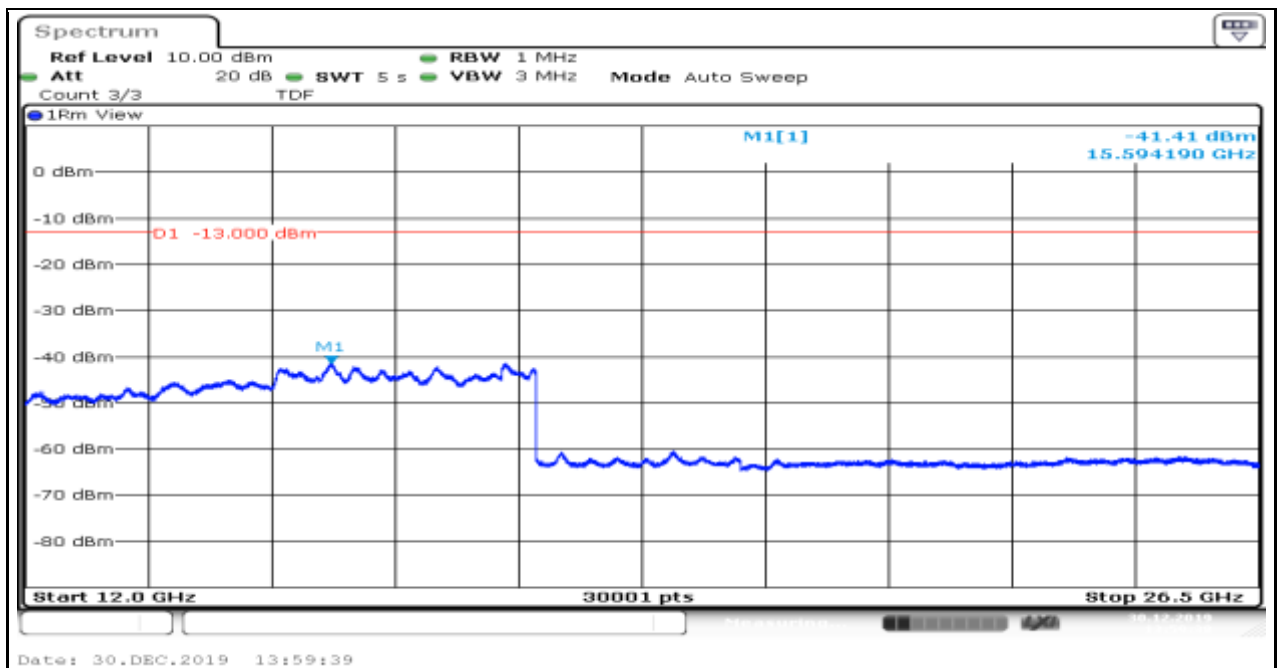




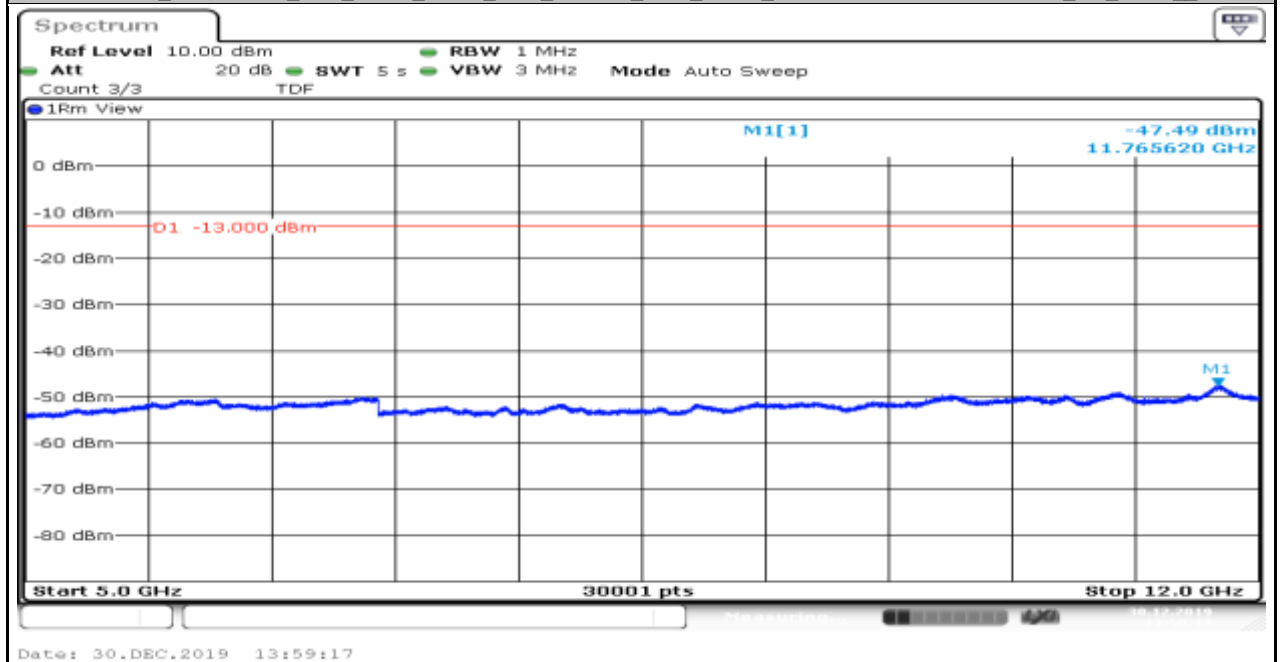
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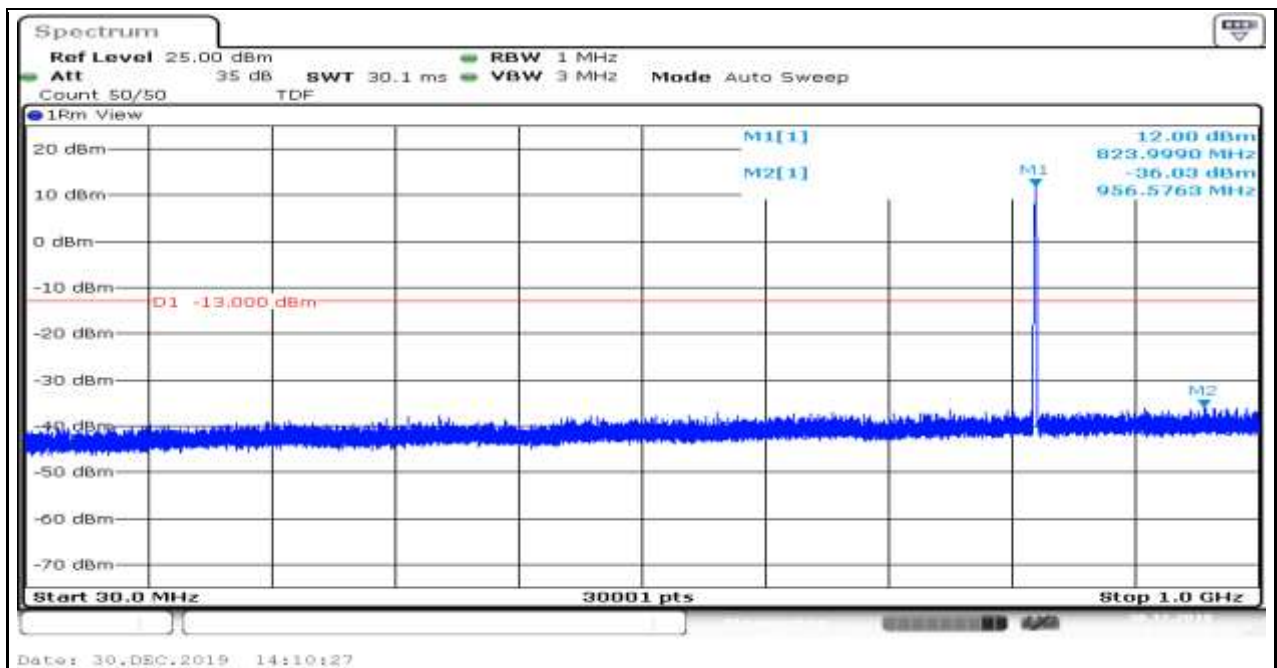
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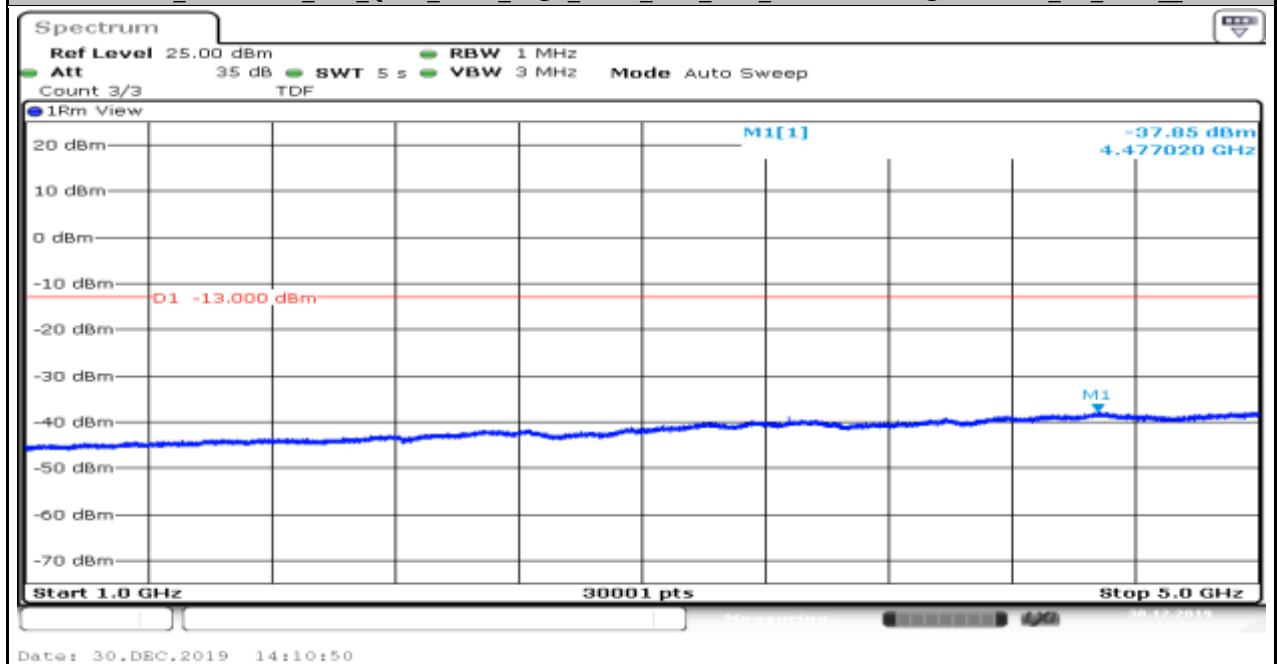
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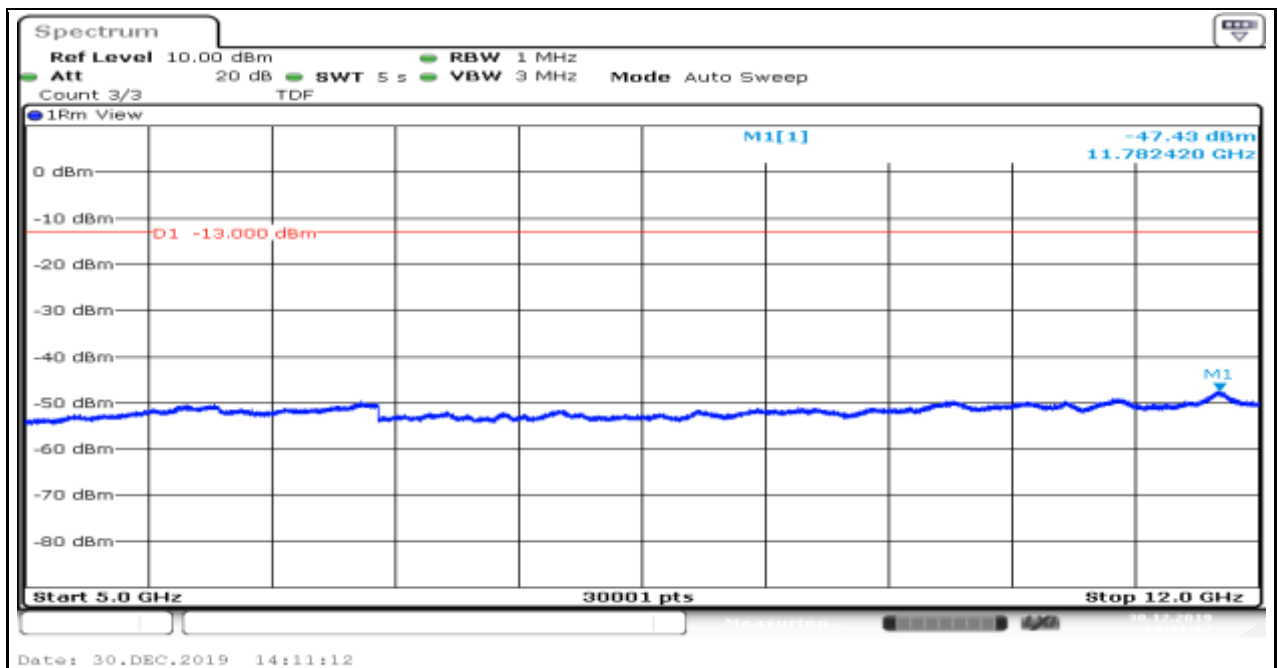
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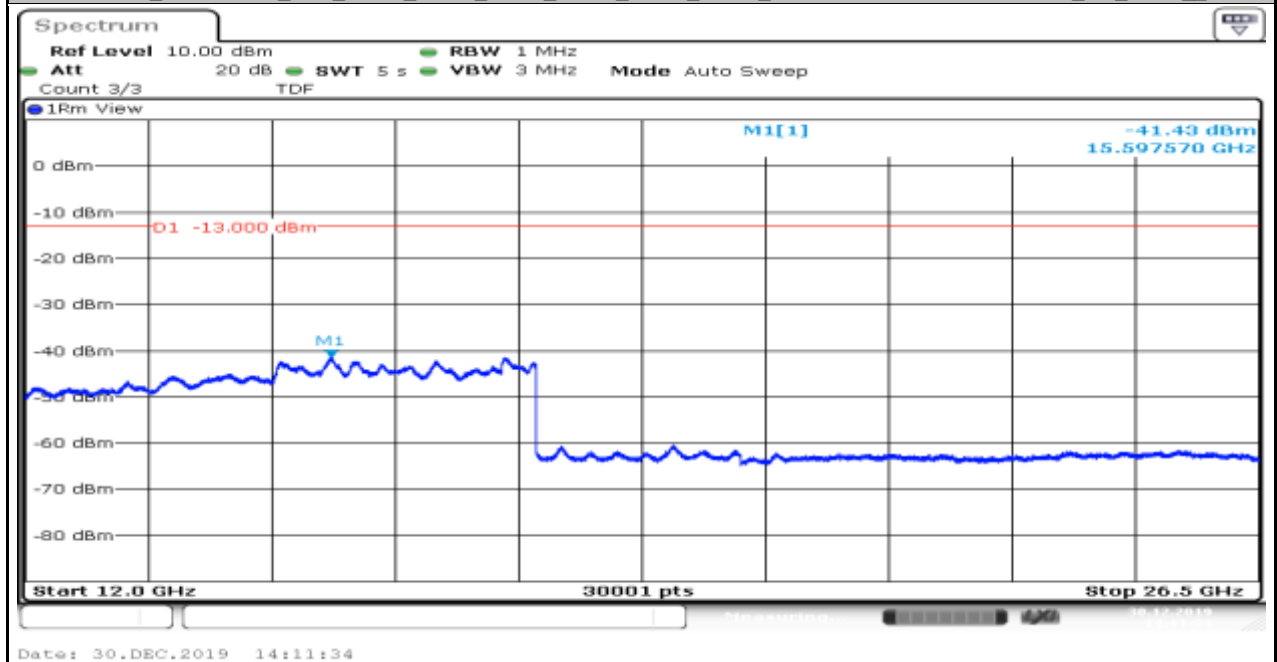
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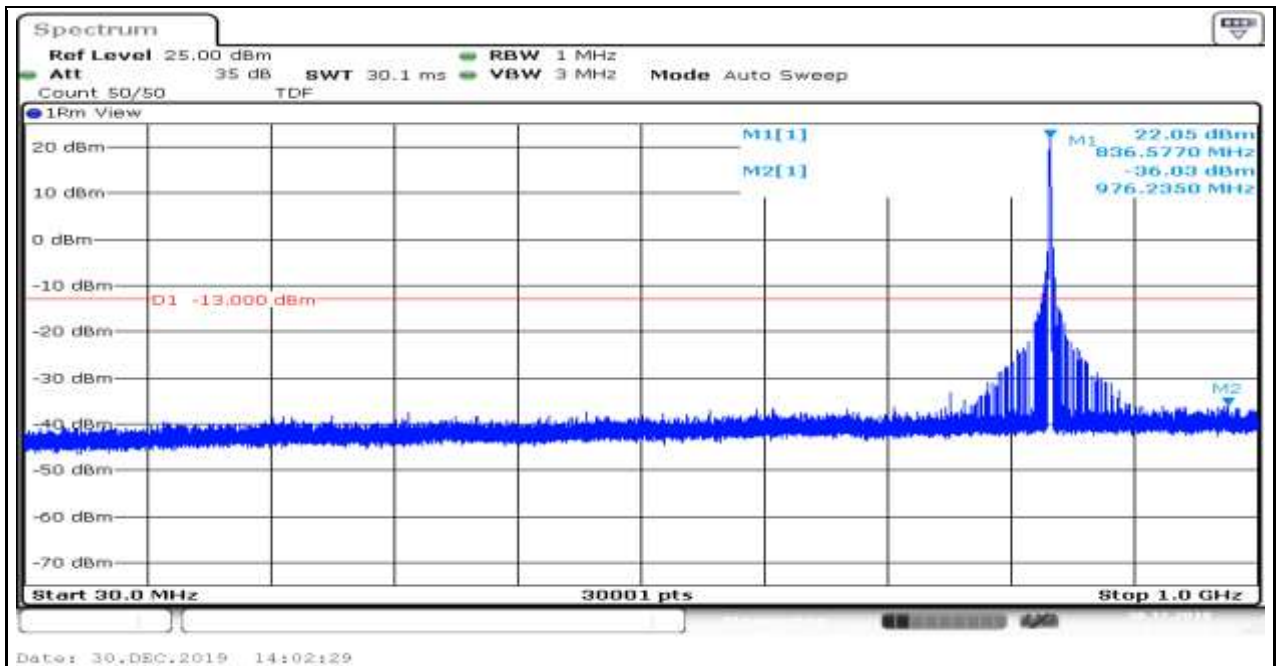
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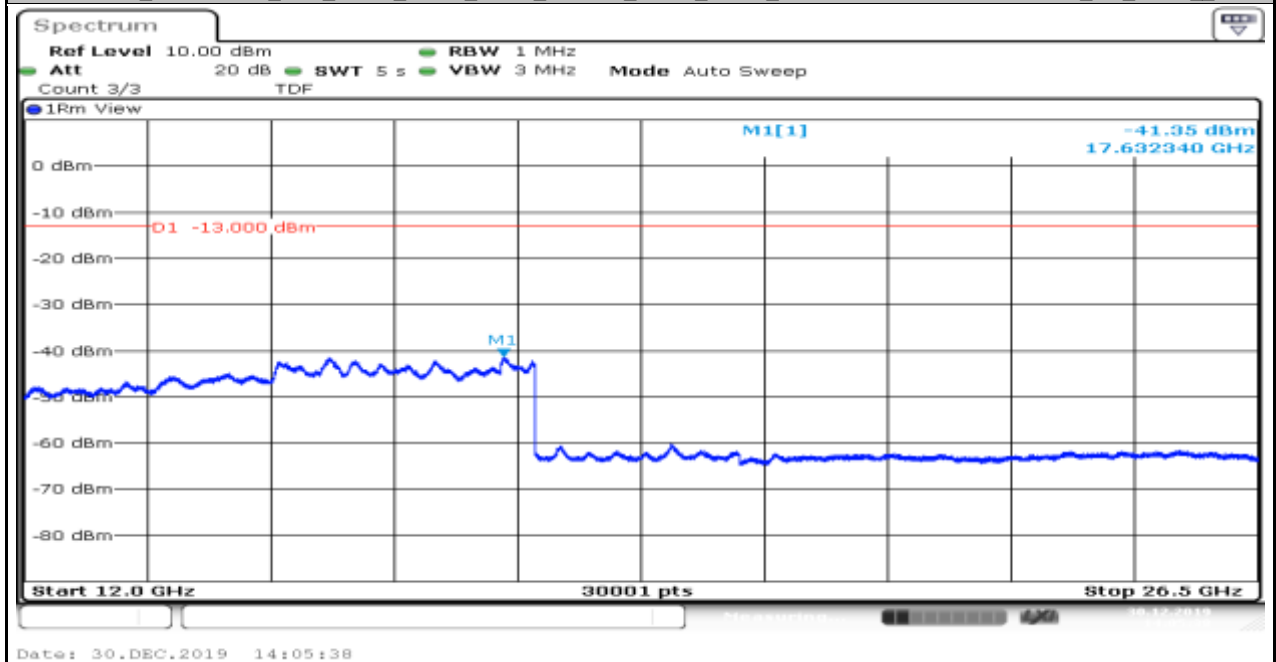
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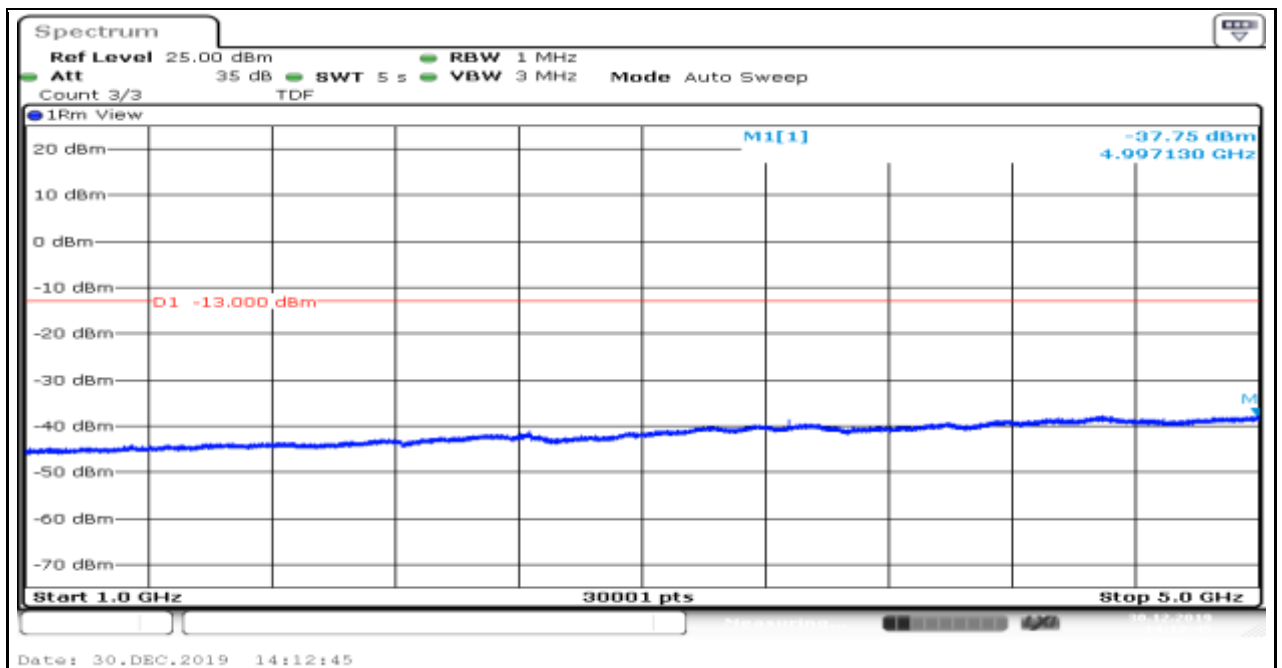
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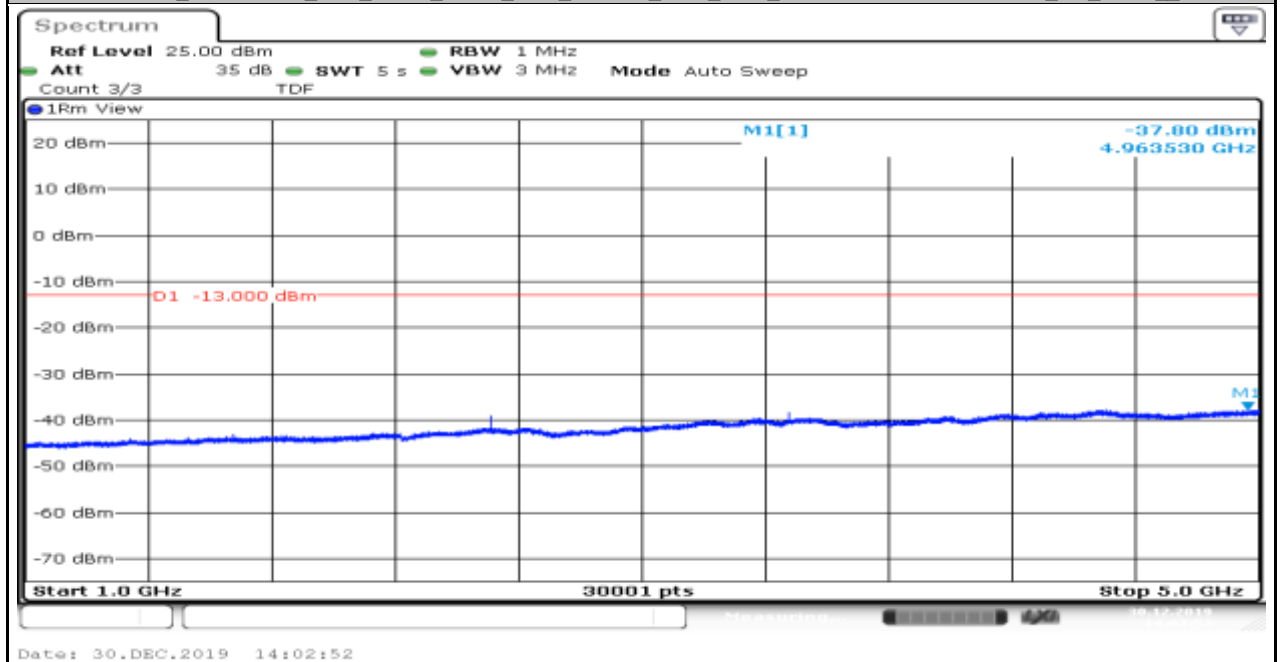
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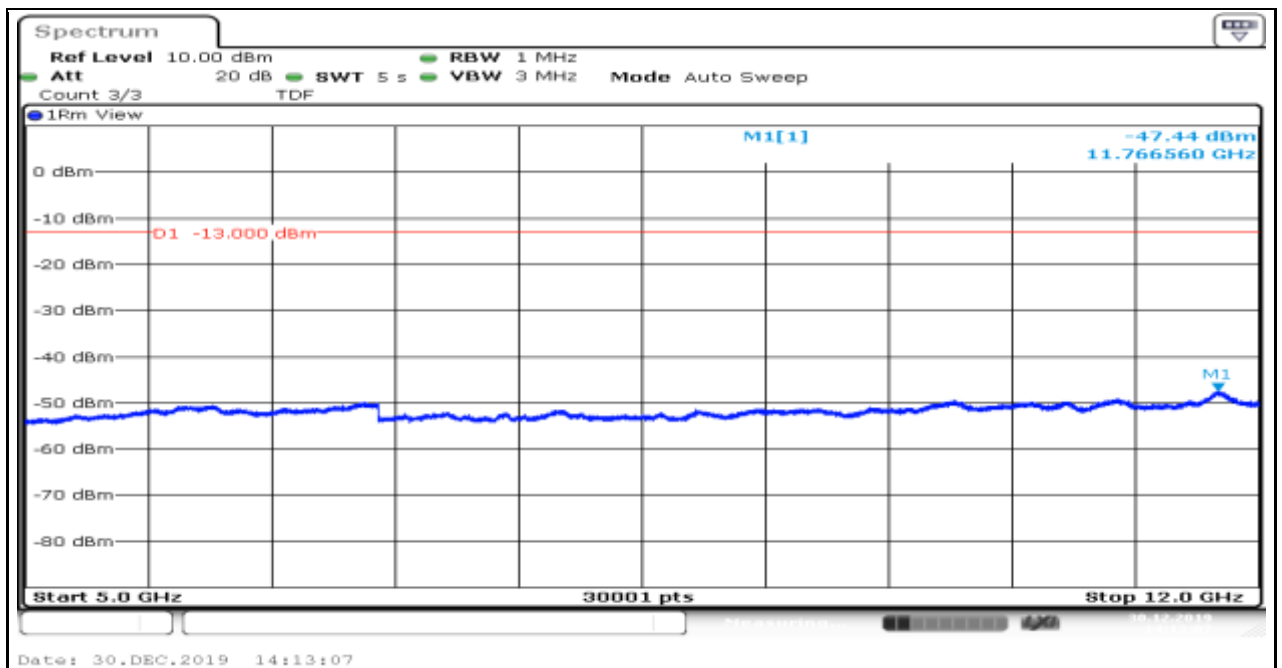
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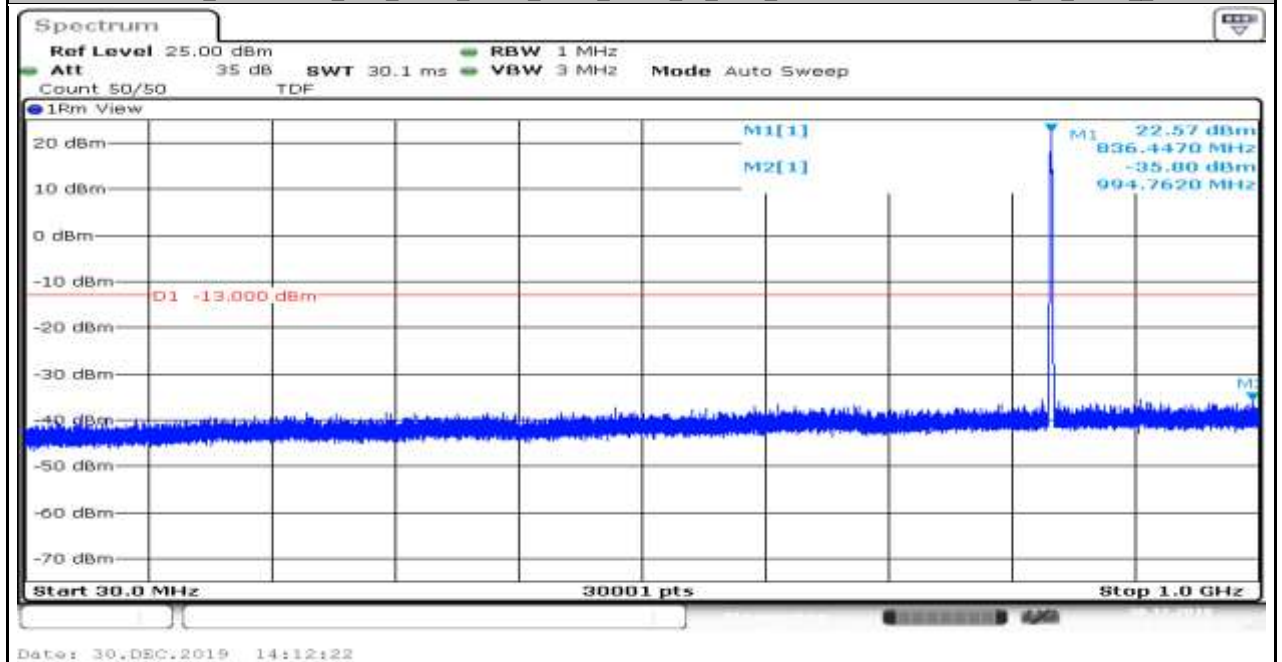
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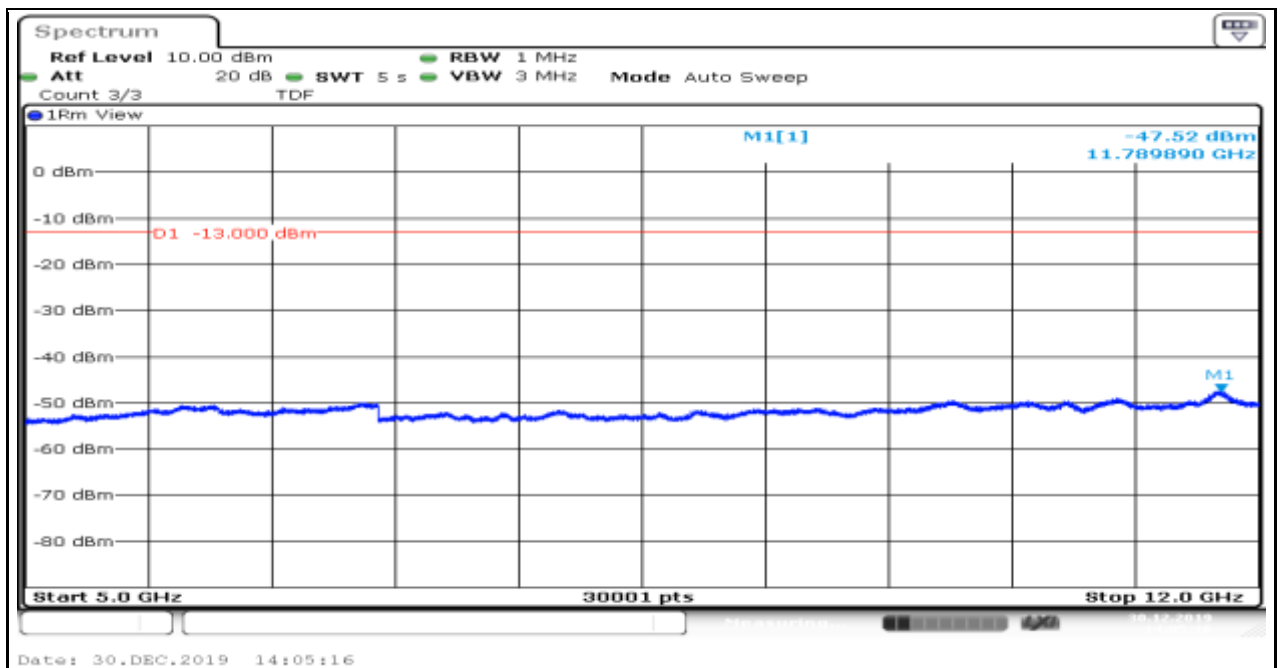
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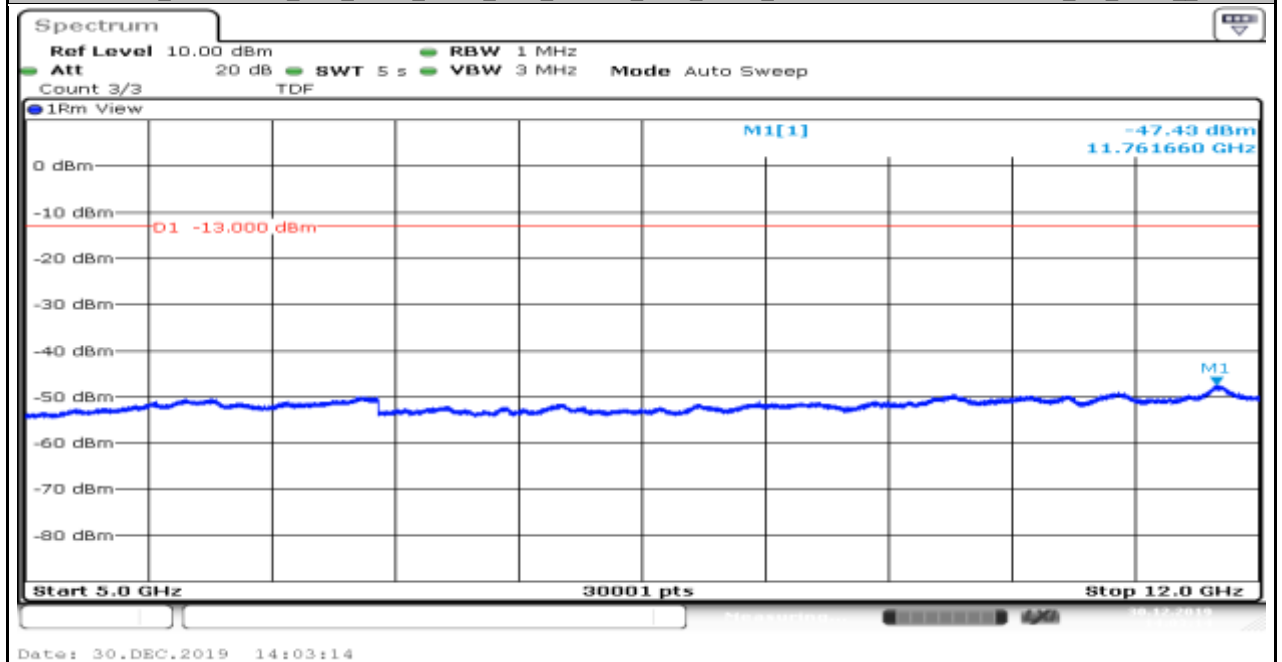
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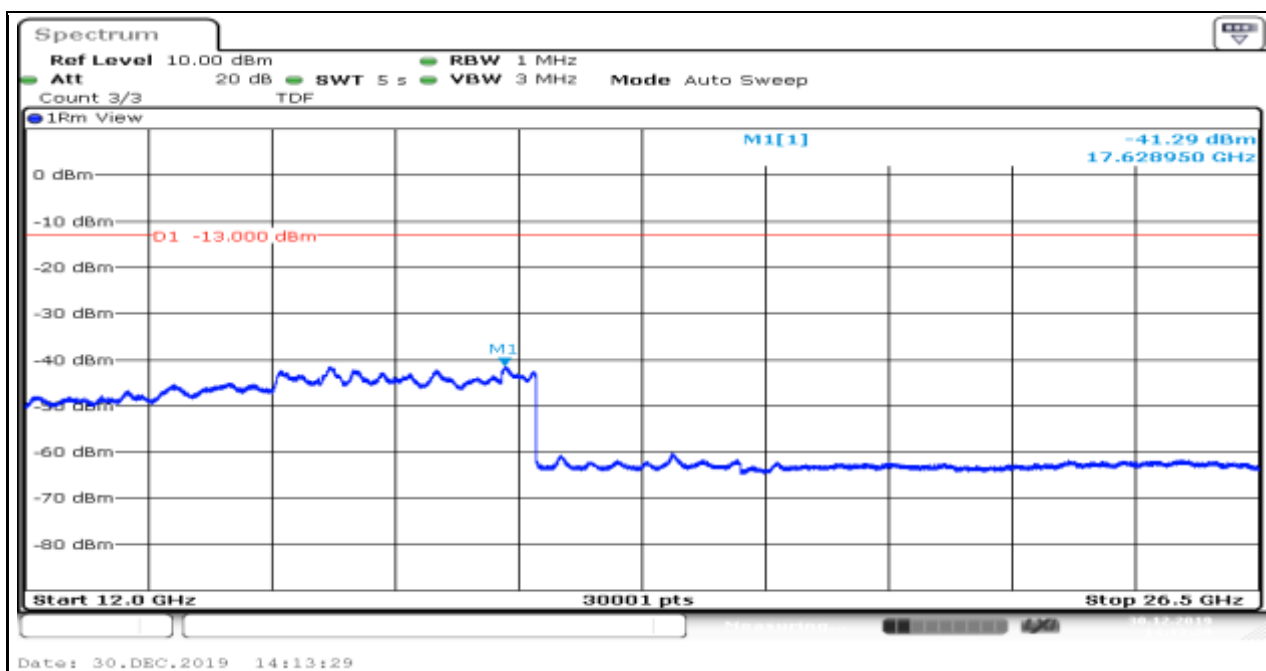
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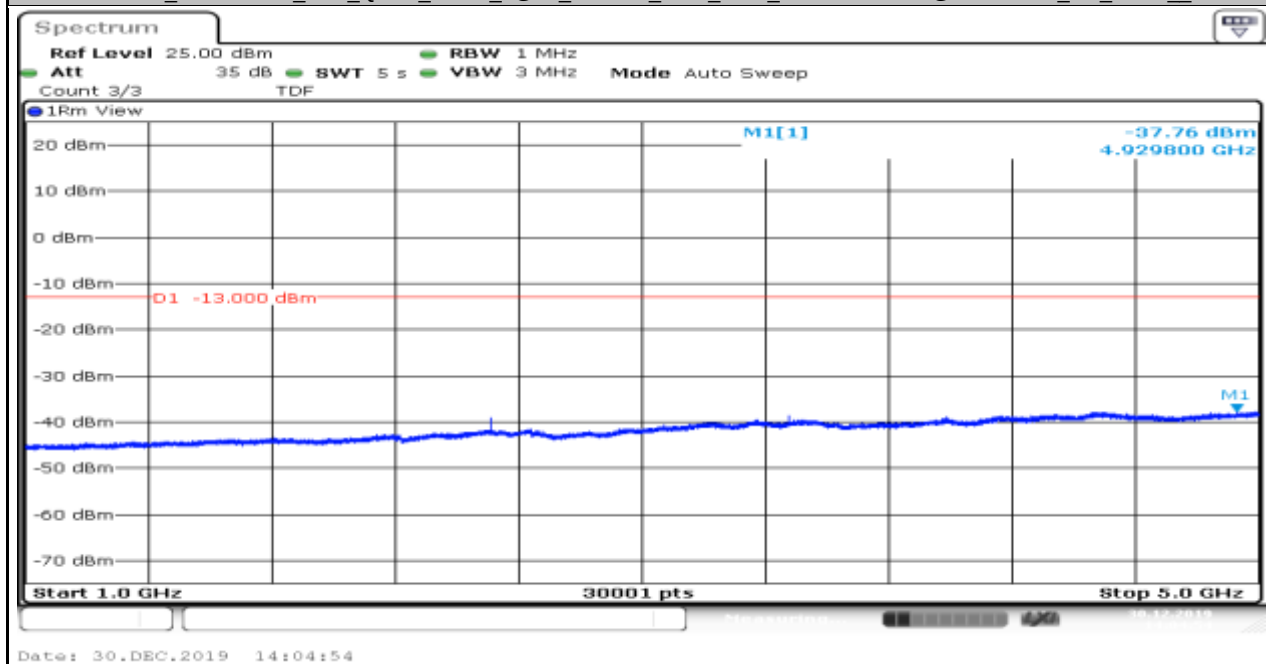
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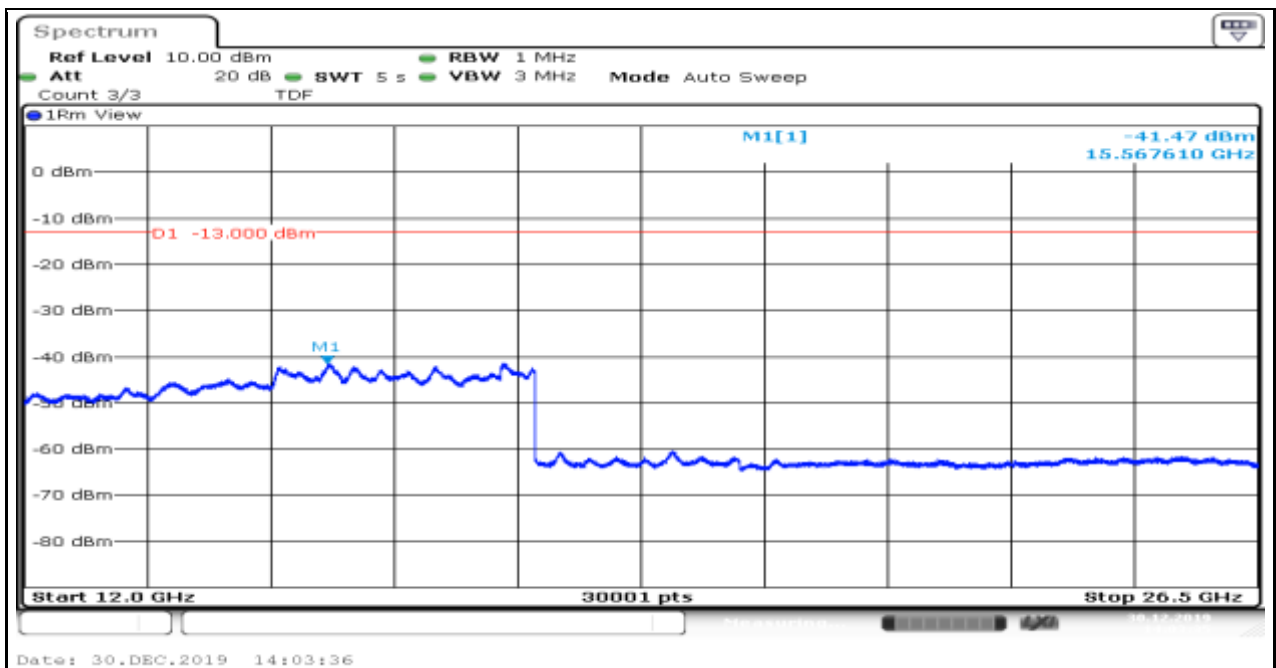
Band26_Stand-Alone_NaN_QPSK_26915_12@0_15kHz_12000_26500_12000~26500MHz@-41.29dBm_-13_PASS__



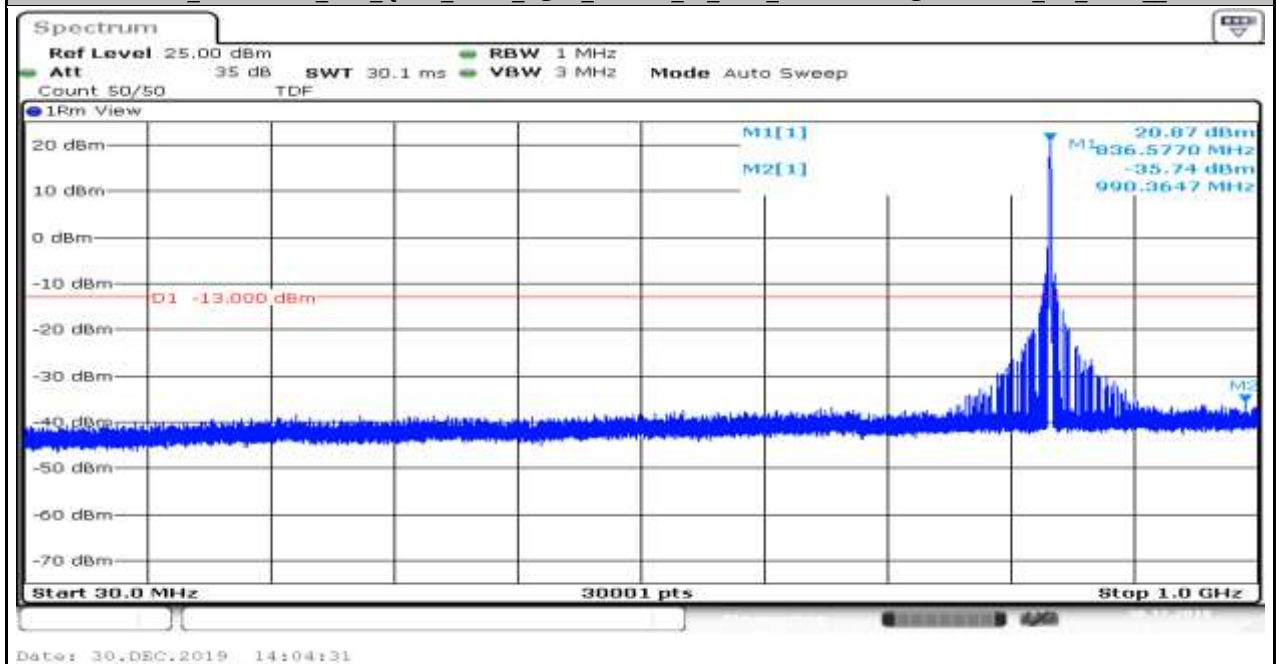
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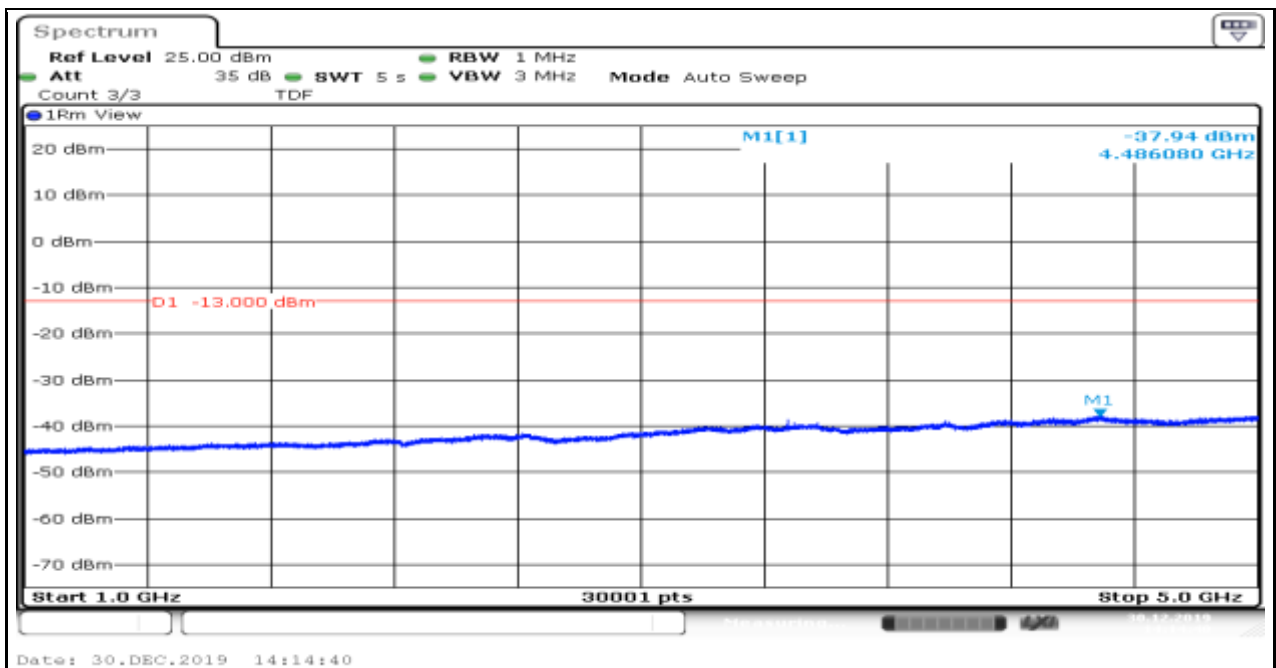
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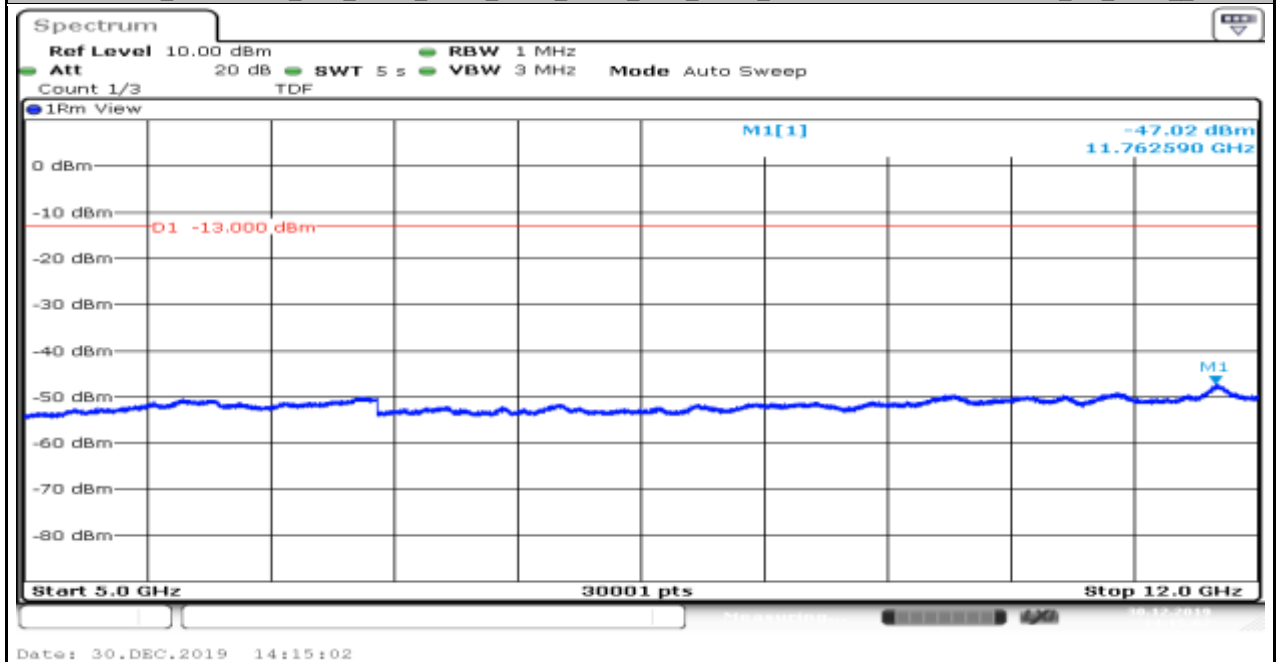
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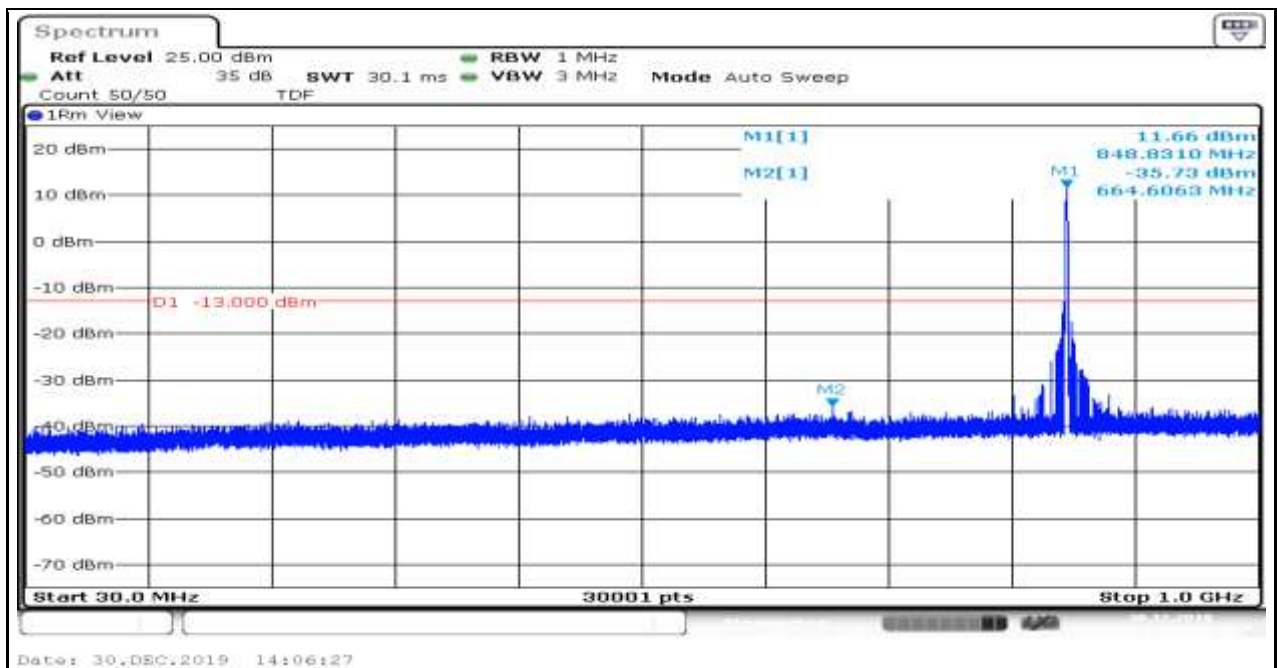
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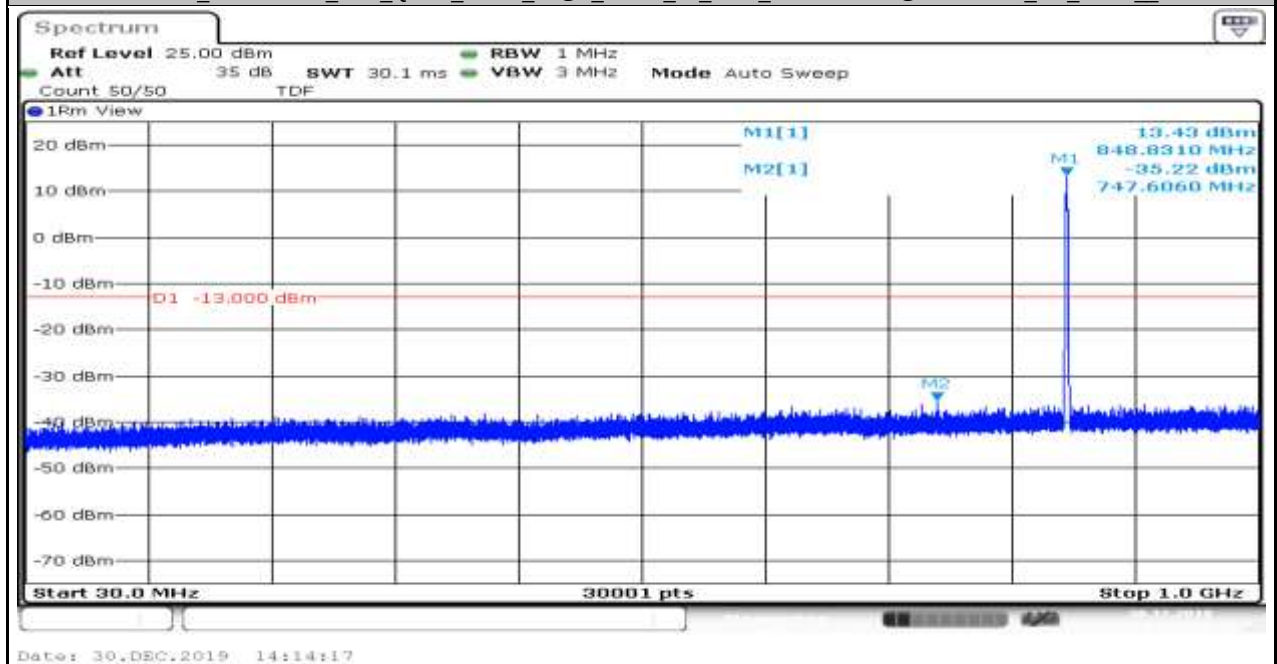
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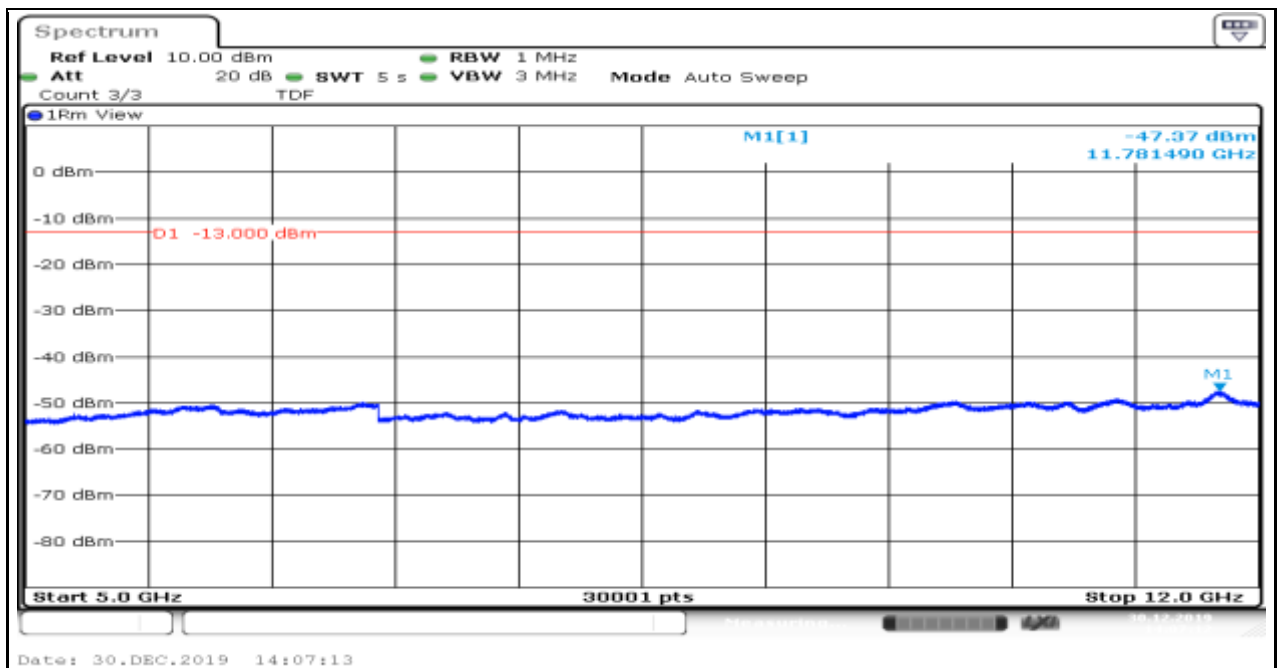
Band26_Stand-Alone_NaN_QPSK_27039_1@0_3.75kHz_30_1000_30~1000MHz@-35.73dBm_-13_PASS_



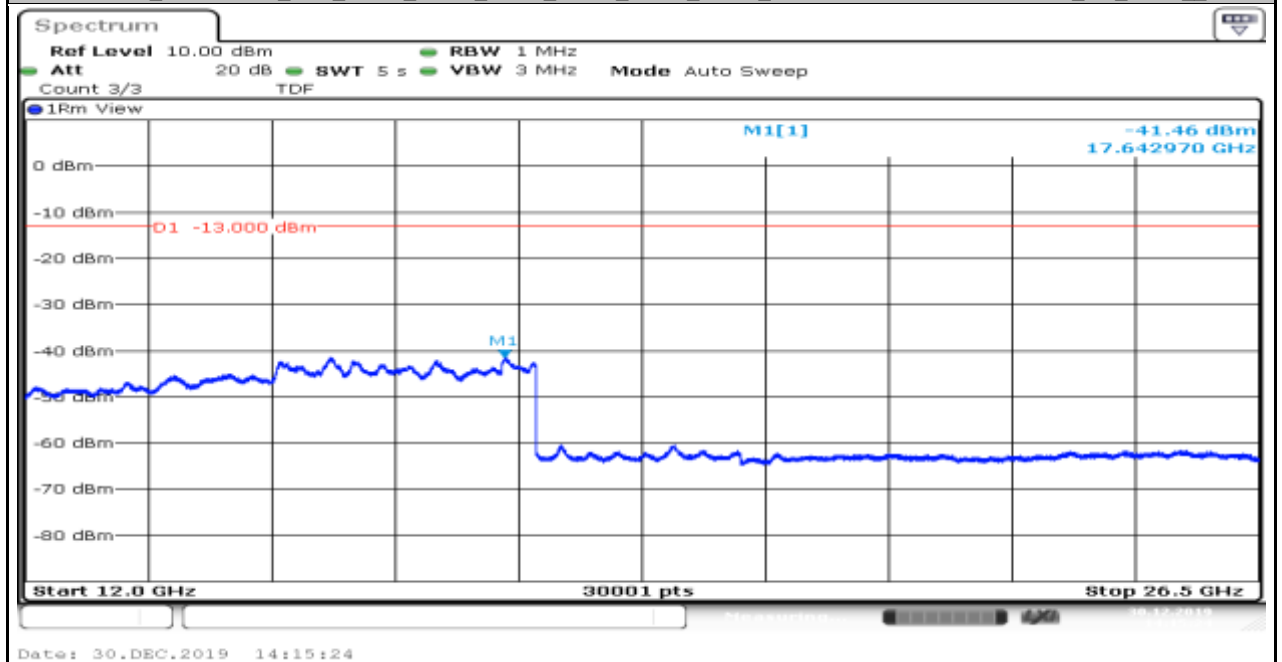
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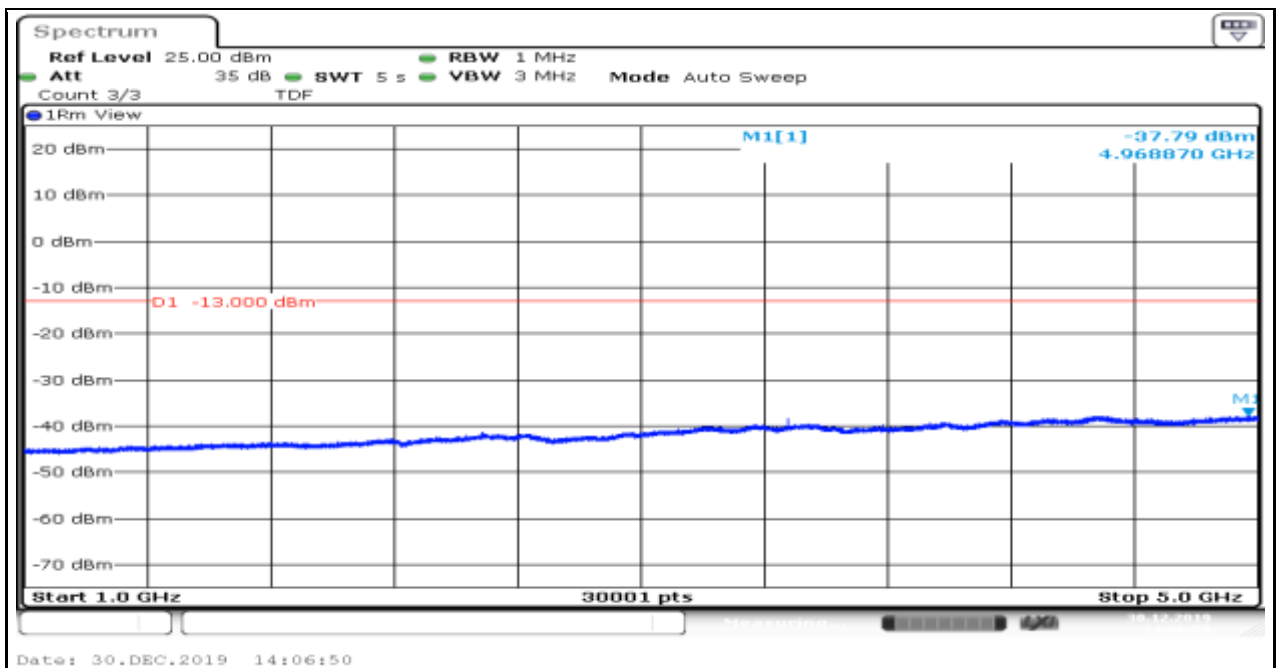
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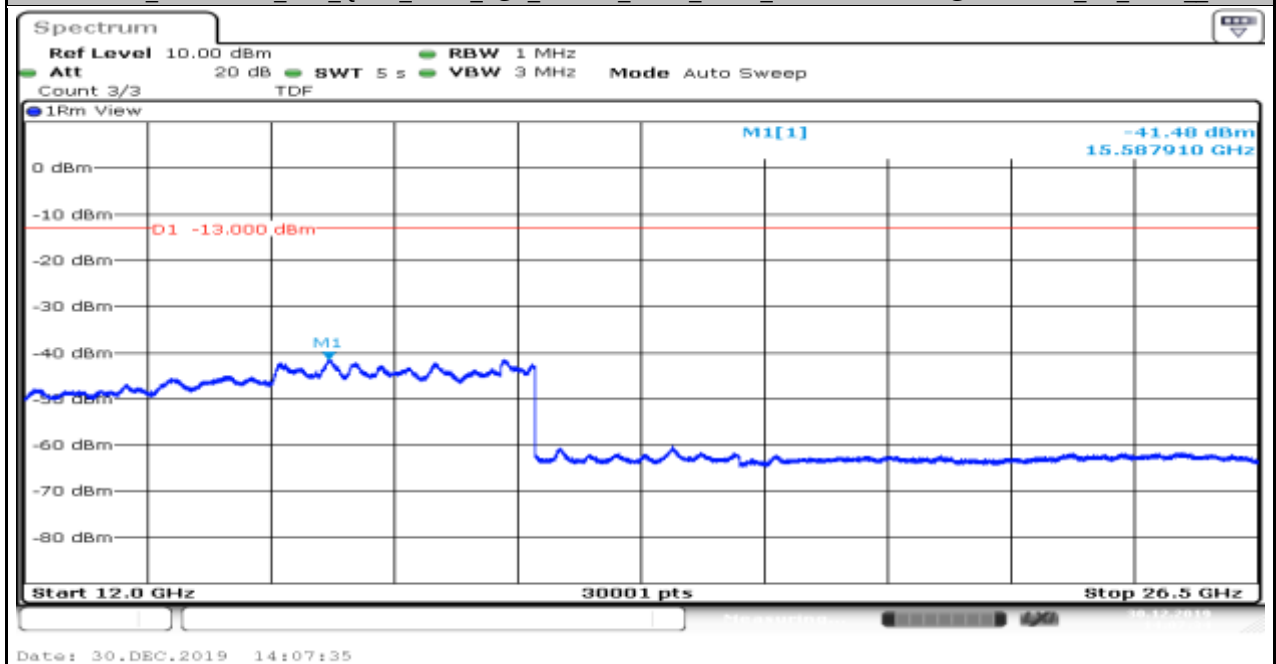
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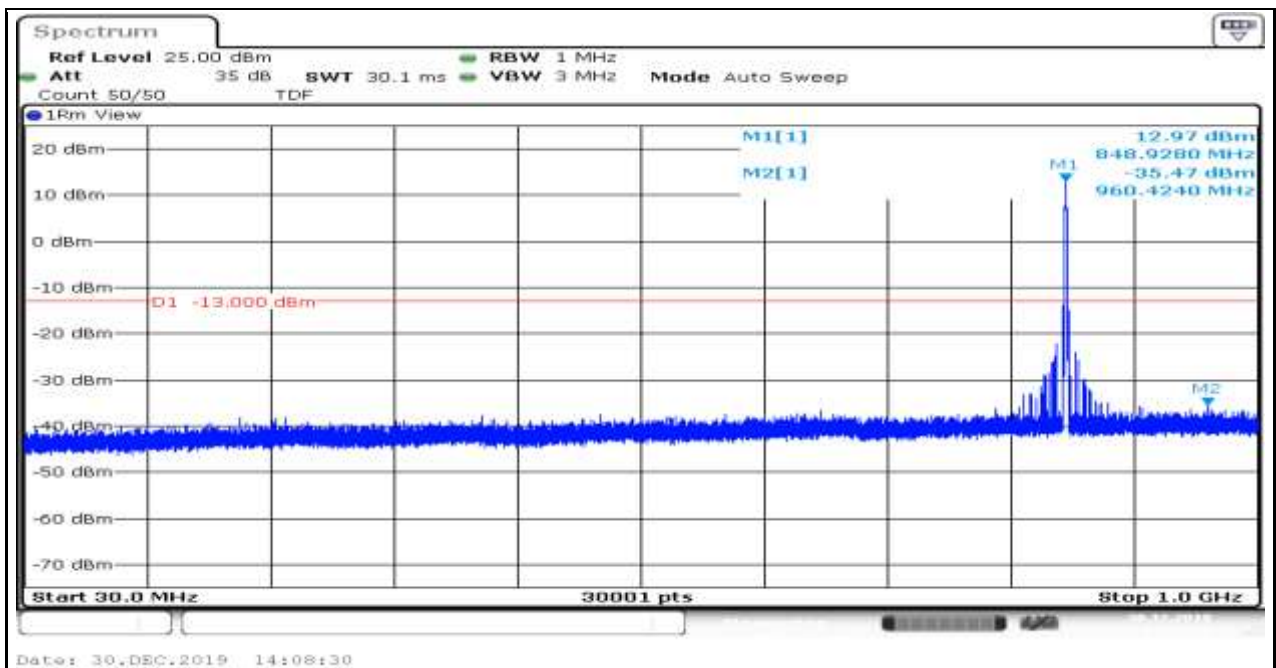
Band26_Stand-Alone_NaN_QPSK_27039_1@0_3.75kHz_1000_5000_1000-5000MHz@-37.79dBm_-13_PASS_



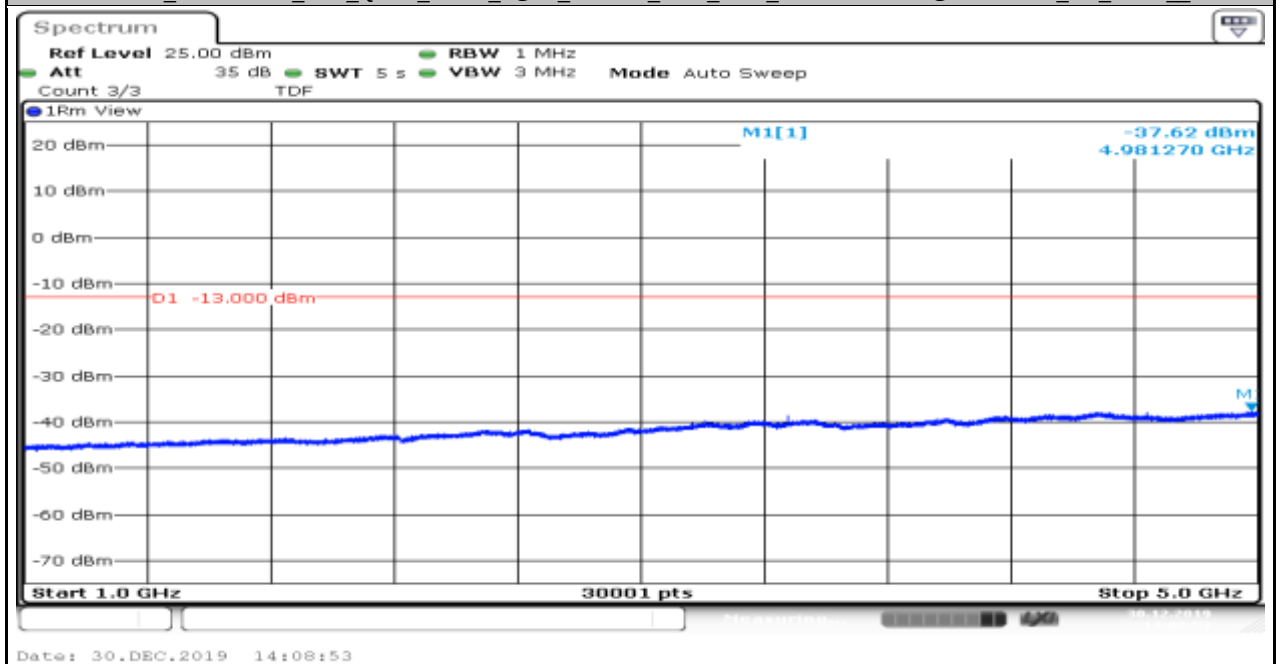
Band26_Stand-Alone_NaN_QPSK_27039_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PASS_



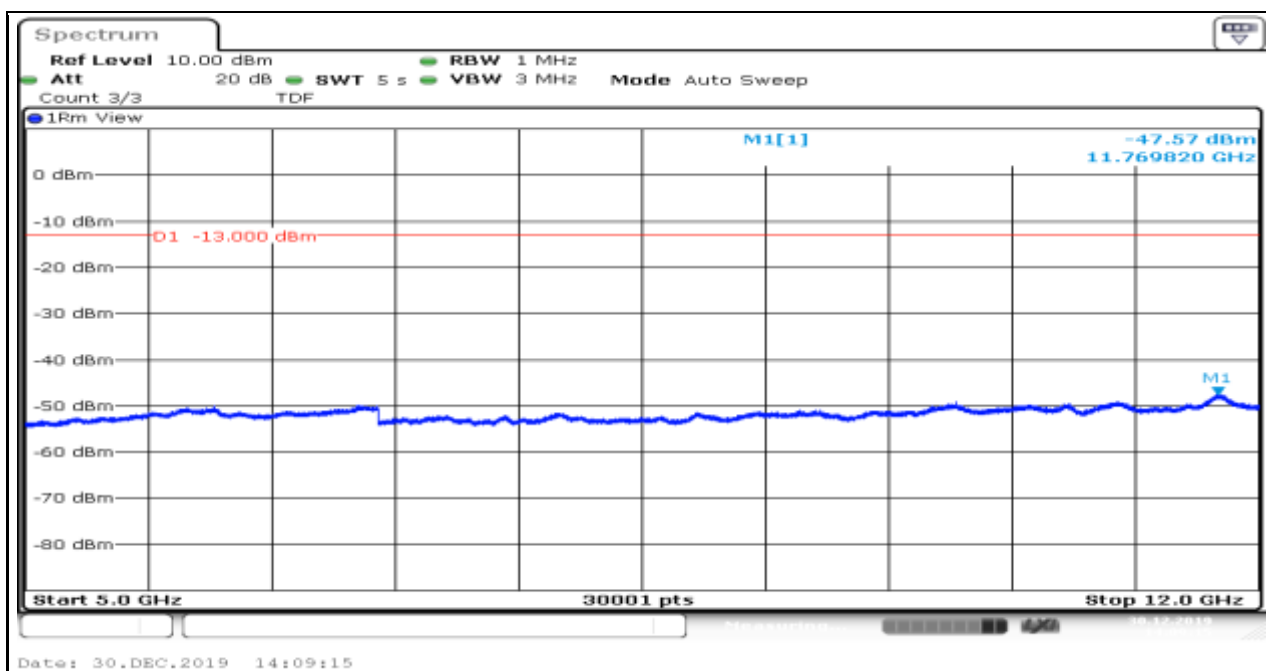
Band26_Stand-Alone_NaN_QPSK_27039_1@47_3.75kHz_30_1000_30~1000MHz@-35.47dBm_-13_PASS_



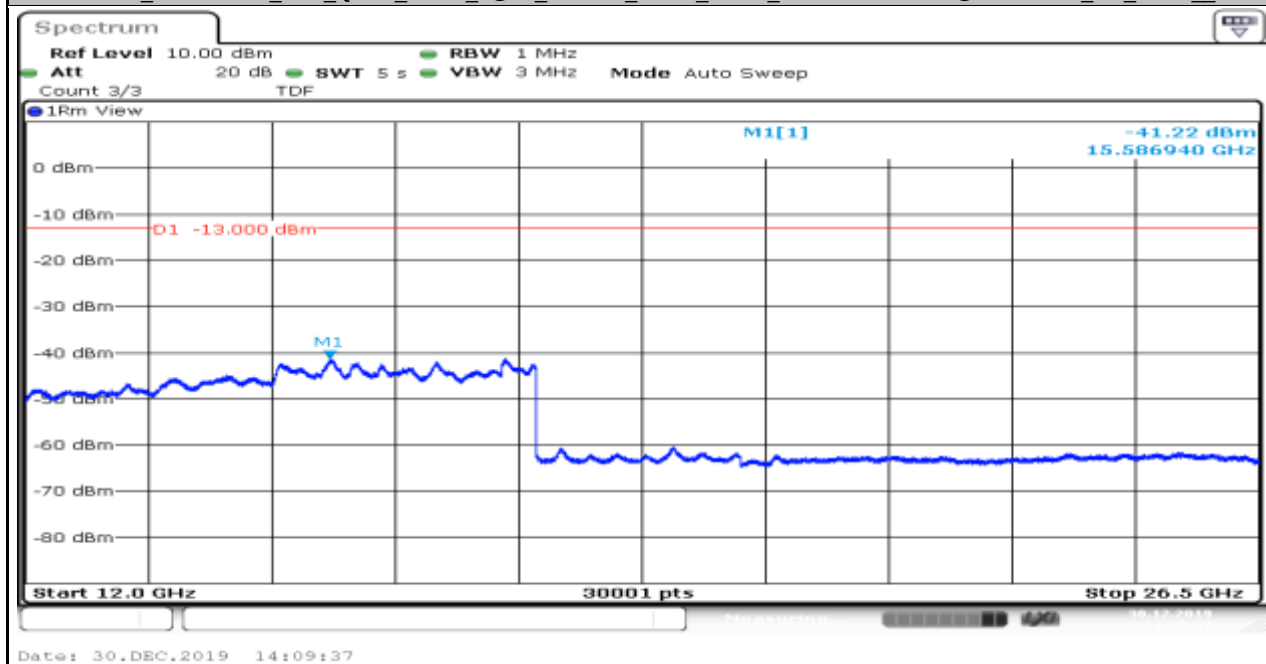
Band26_Stand-Alone_NaN_QPSK_27039_1@47_3.75kHz_1000_5000_1000-5000MHz@-37.62dBm_-13_PASS__



Band26_Stand-Alone_NaN_QPSK_27039_1@47_3.75kHz_5000_12000_5000-12000MHz@-47.57dBm_-13_PASS__

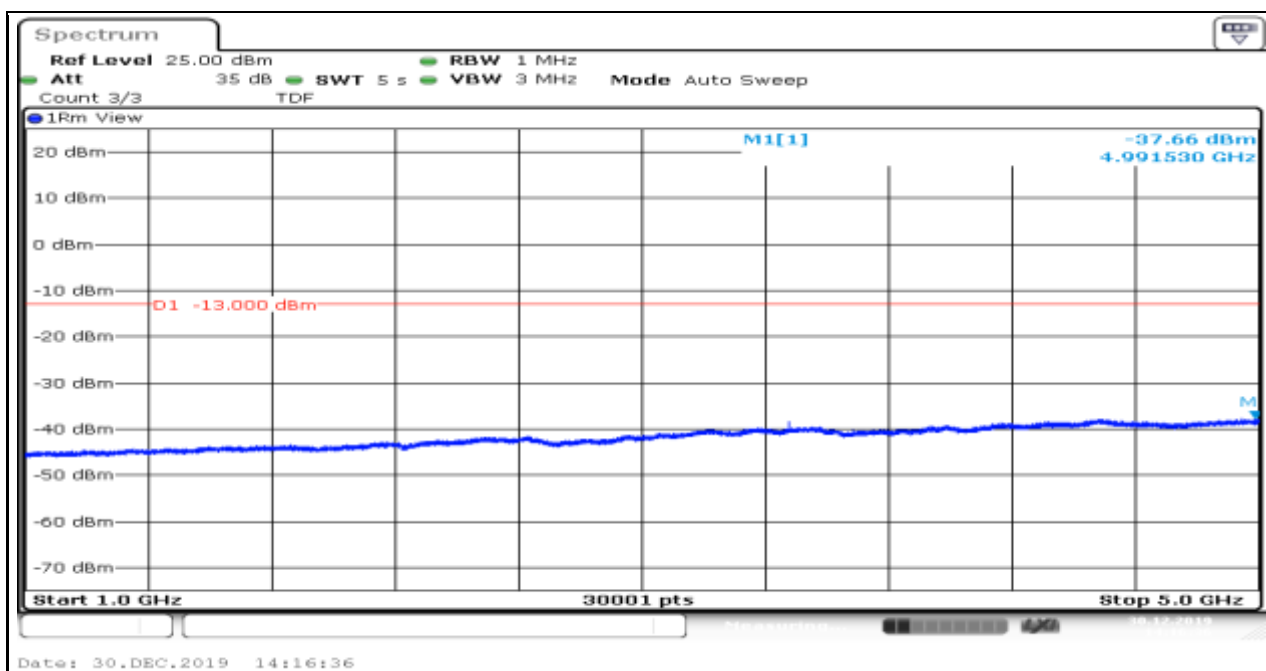


Band26_Stand-Alone_NaN_QPSK_27039_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.22dBm_-13_PASS__

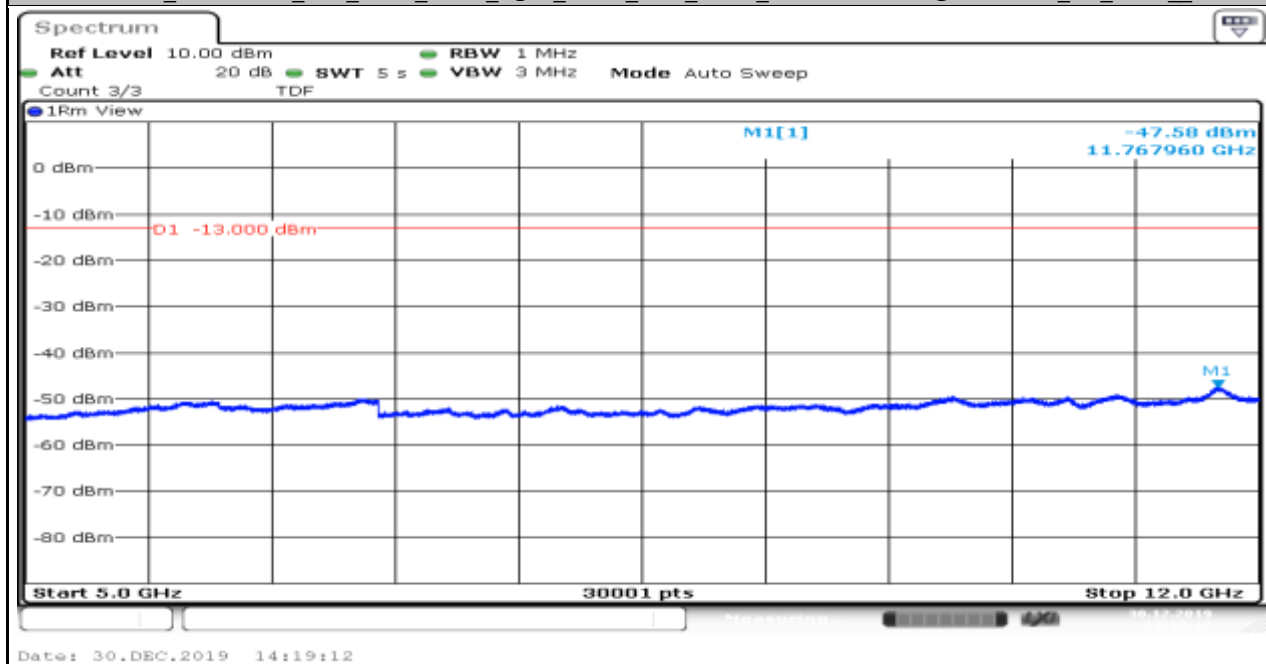


Band26_Stand-Alone_NaN_BPSK_26791_1@0_15kHz_1000_5000_1000~5000MHz@-37.66dBm_-13_PASS__

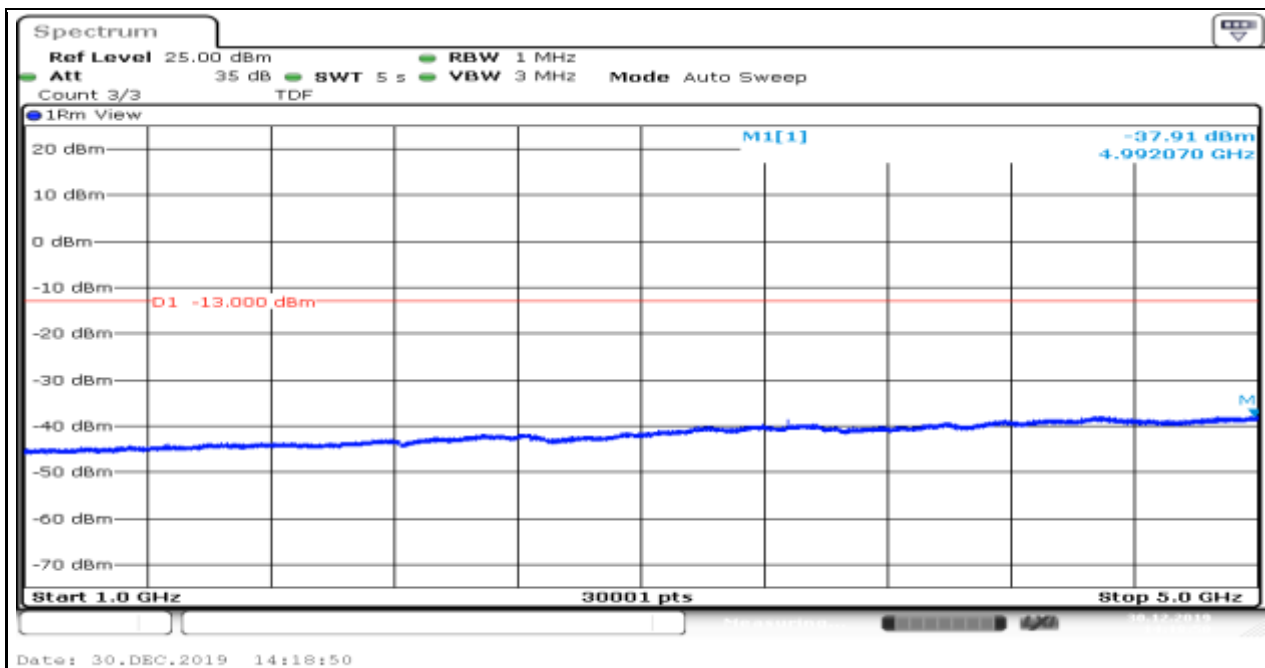
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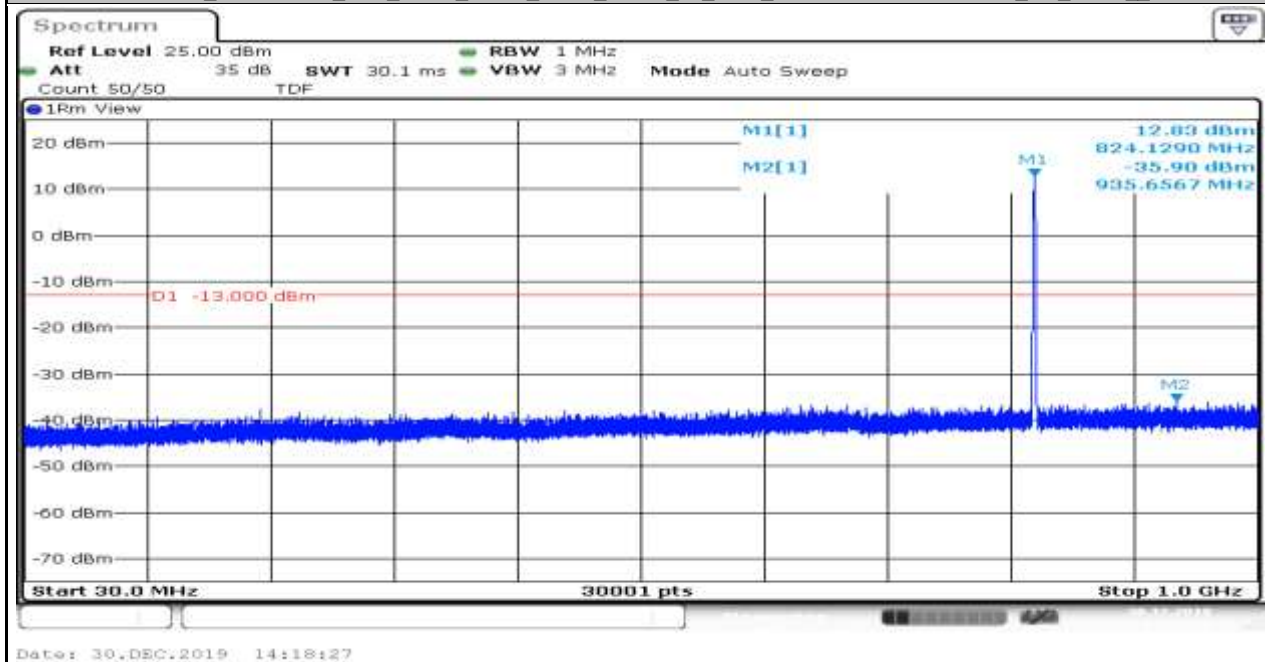
Band26_Stand-Alone_NaN_BPSK_26791_1@11_15kHz_5000_12000_5000-12000MHz@-47.58dBm_-13_PASS__



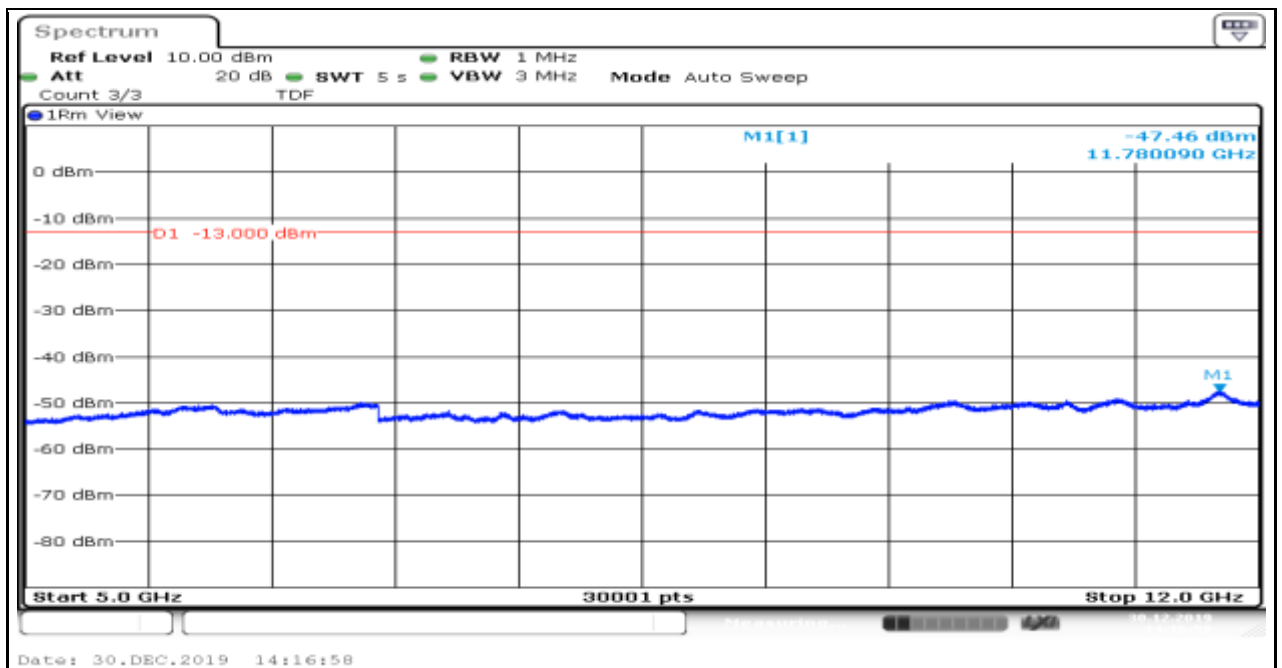
Band26_Stand-Alone_NaN_BPSK_26791_1@11_15kHz_1000_5000_1000-5000MHz@-37.91dBm_-13_PASS__



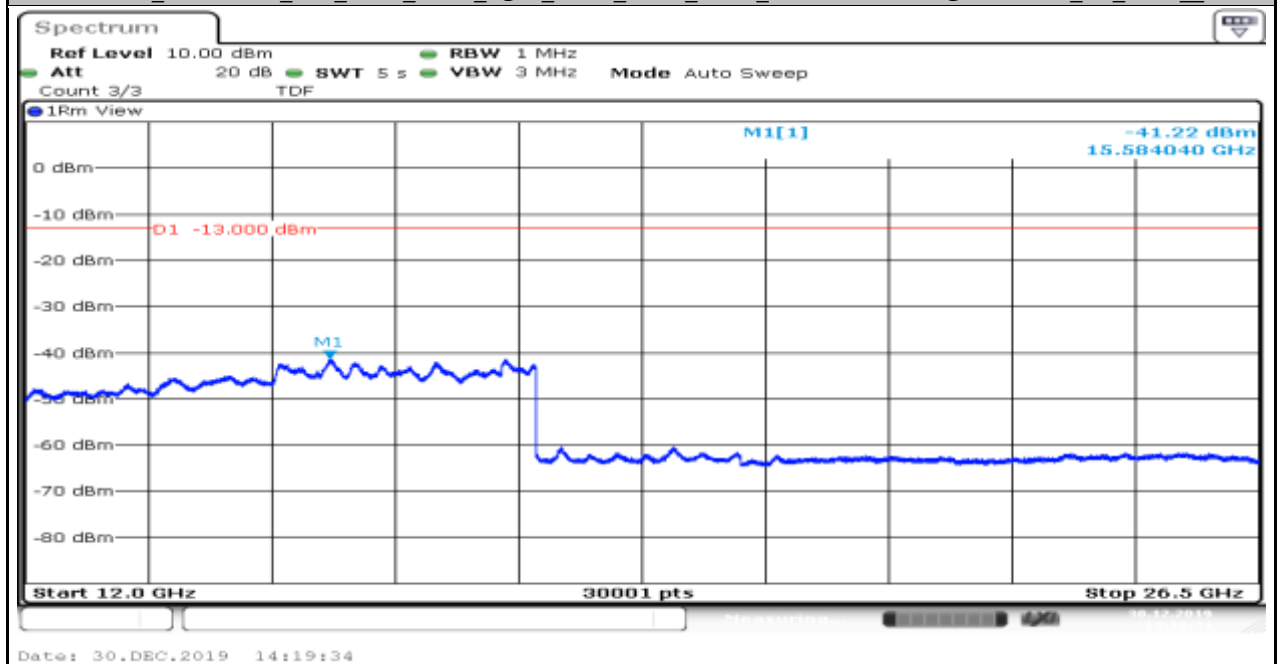
Band26_Stand-Alone_NaN_BPSK_26791_1@11_15kHz_30_1000_30~1000MHz@-35.9dBm_-13_PASS_



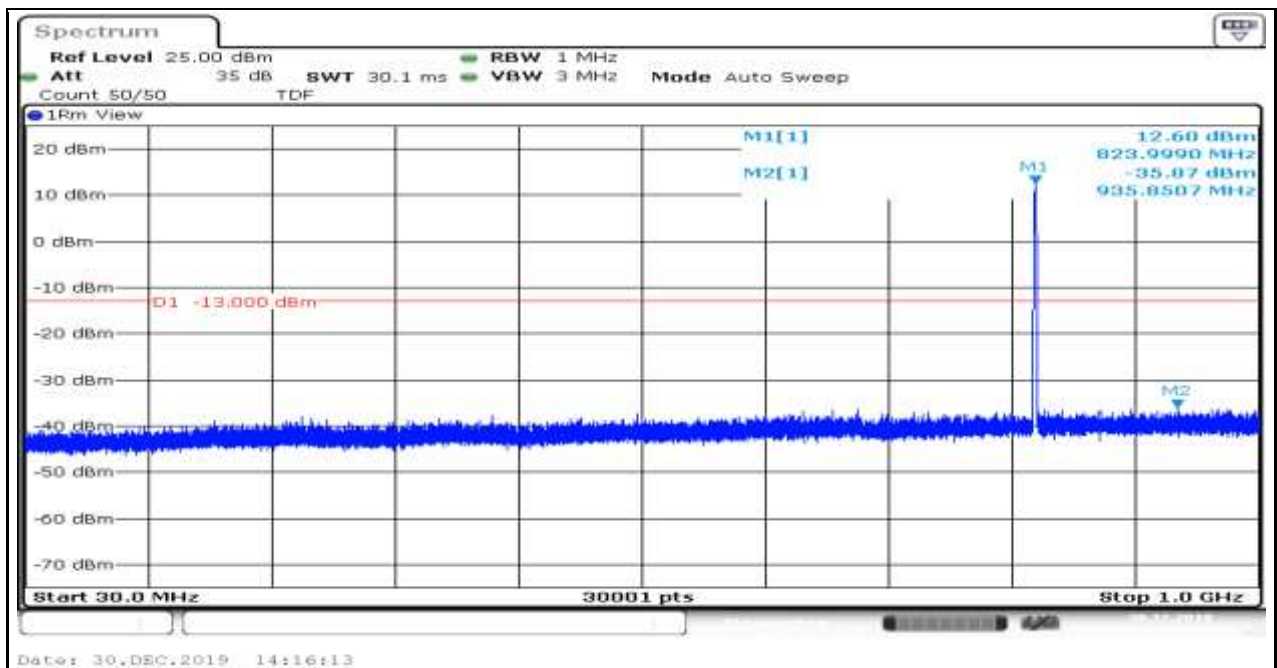
Band26_Stand-Alone_NaN_BPSK_26791_1@0_15kHz_5000_12000_5000~12000MHz@-47.46dBm_-13_PASS_



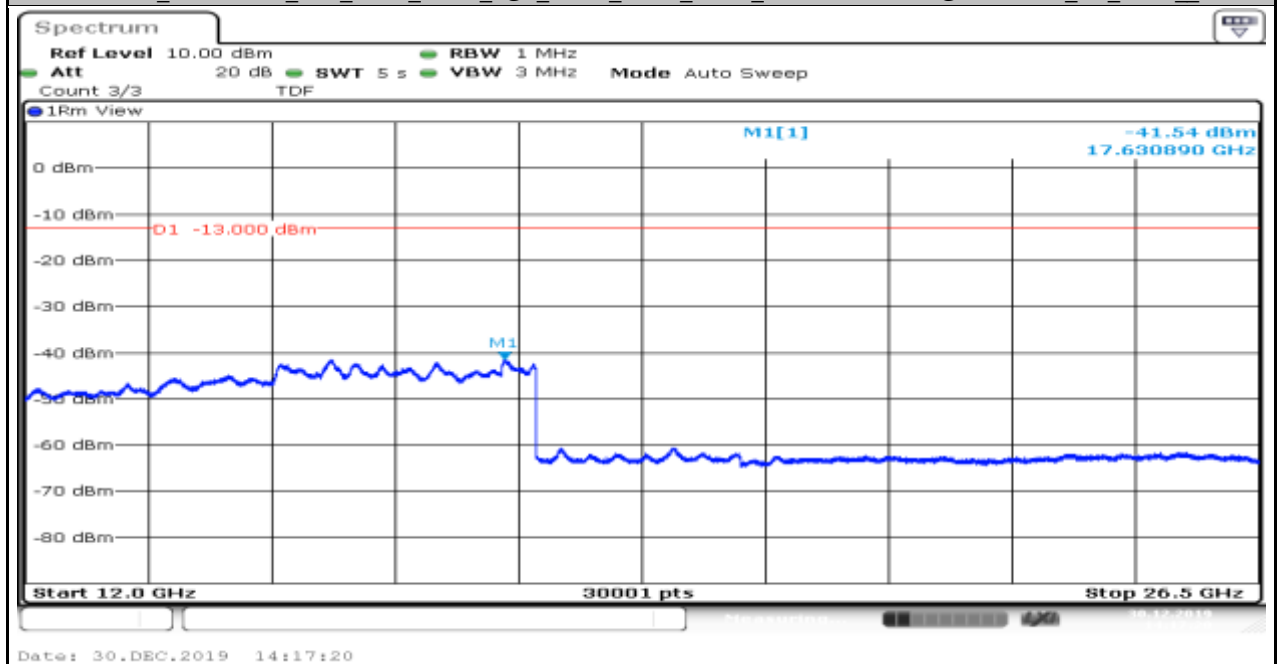
Band26_Stand-Alone_NaN_BPSK_26791_1@11_15kHz_12000_26500_12000-26500MHz@-41.22dBm_-13_PASS_



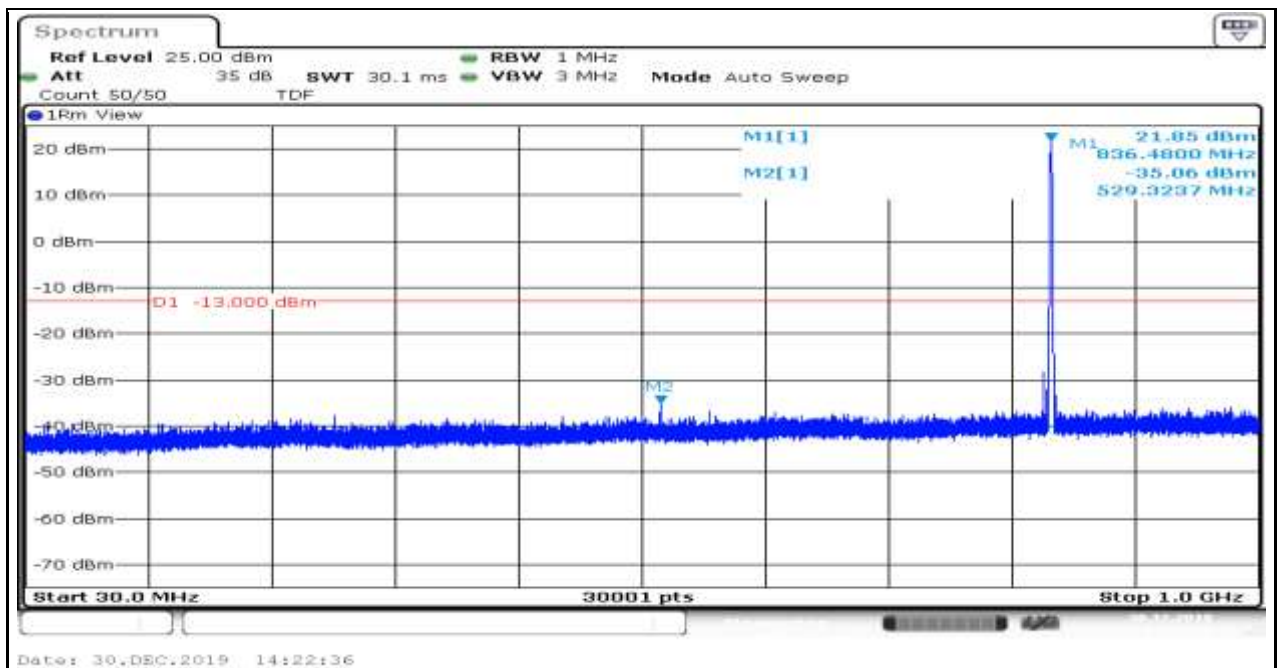
Band26_Stand-Alone_NaN_BPSK_26791_1@0_15kHz_30_1000_30-1000MHz@-35.87dBm_-13_PASS_



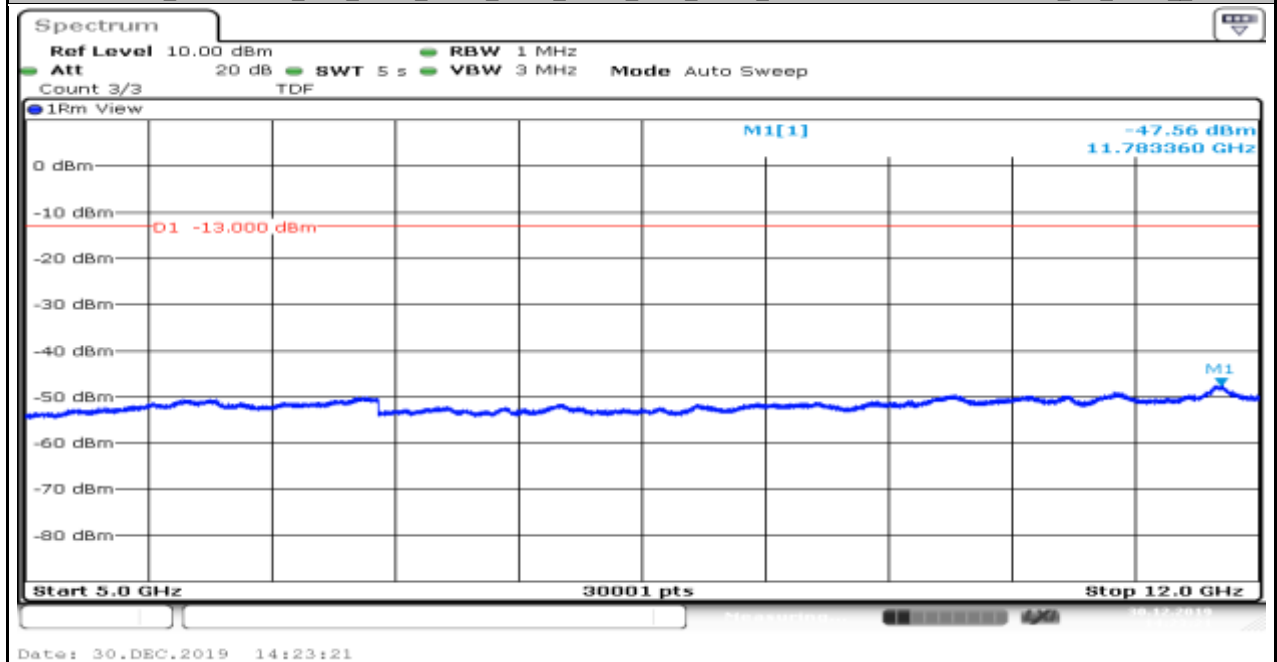
Band26_Stand-Alone_NaN_BPSK_26791_1@0_15kHz_12000_26500_12000-26500MHz@-41.54dBm_-13_PASS_



Band26_Stand-Alone_NaN_BPSK_26915_1@11_15kHz_30_1000_30-1000MHz@-35.06dBm_-13_PASS_

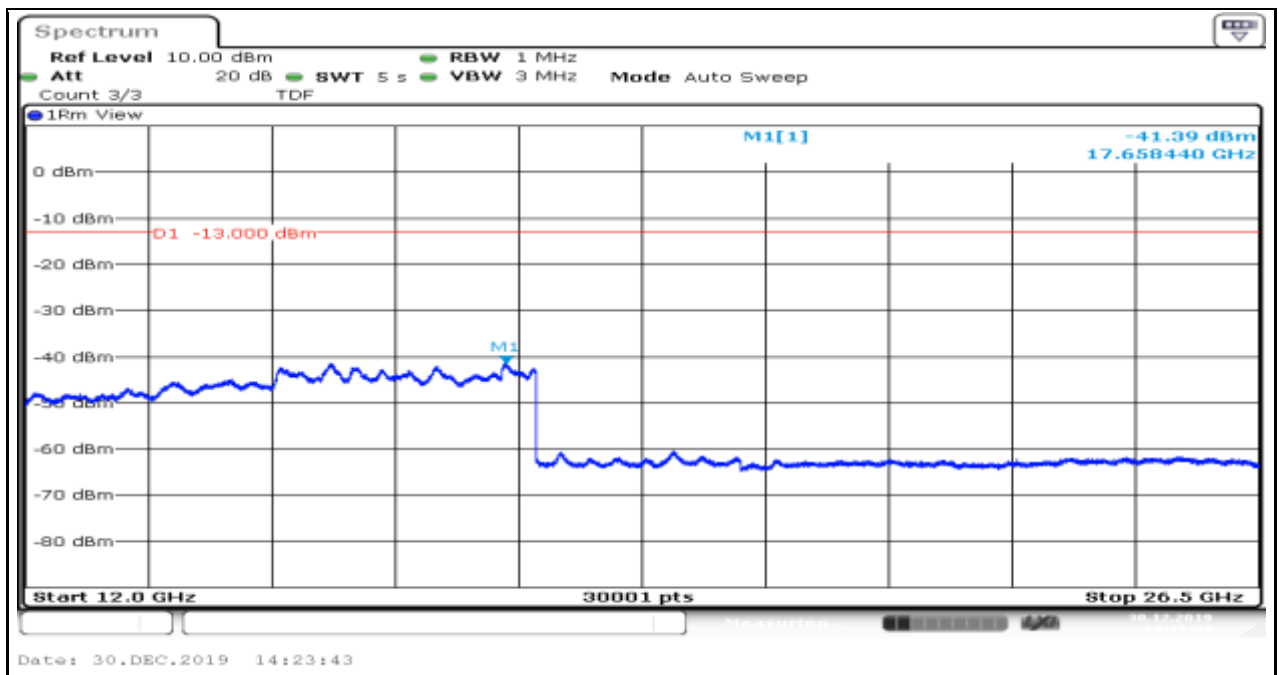


Band26_Stand-Alone_NaN_BPSK_26915_1@11_15kHz_5000_12000_5000-12000MHz@-47.56dBm_-13_PASS__

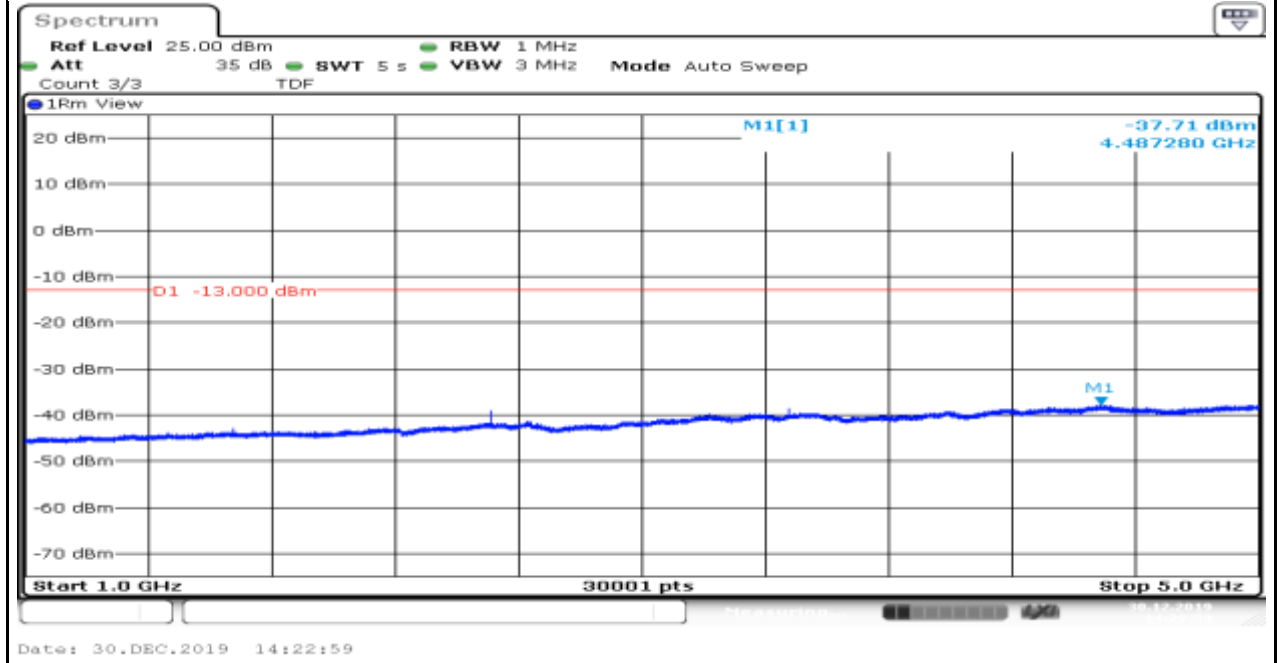


Band26_Stand-Alone_NaN_BPSK_26915_1@11_15kHz_12000_26500_12000-26500MHz@-41.39dBm_-13_PASS__

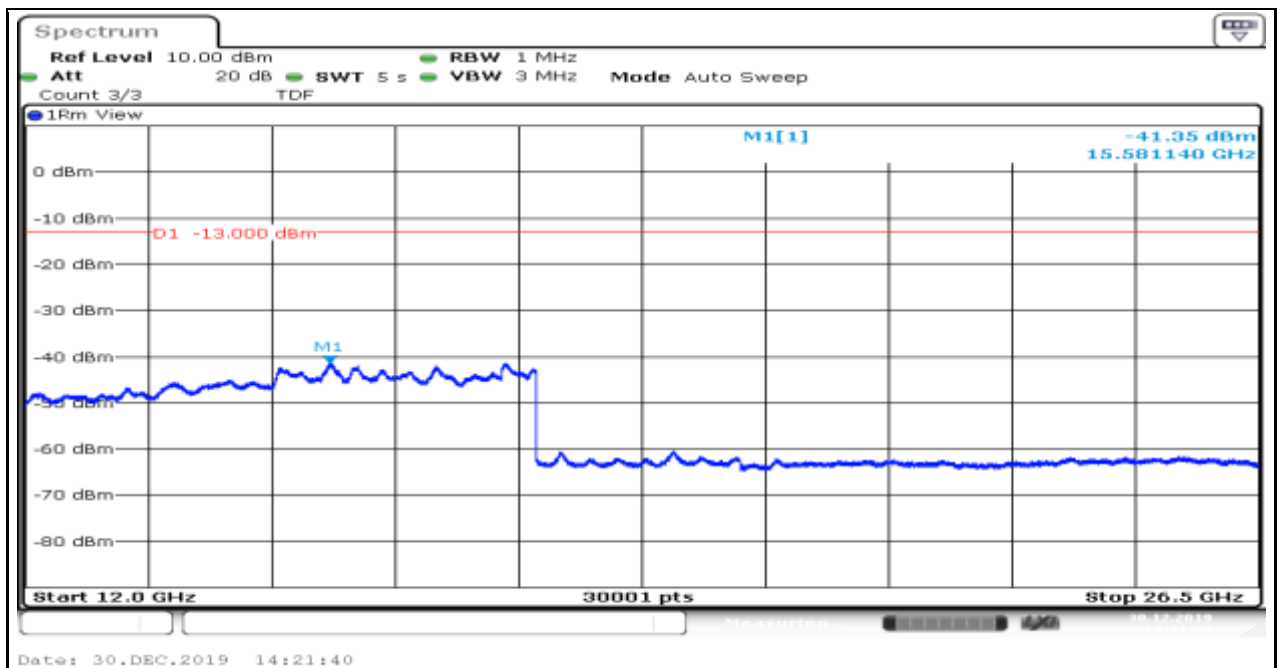
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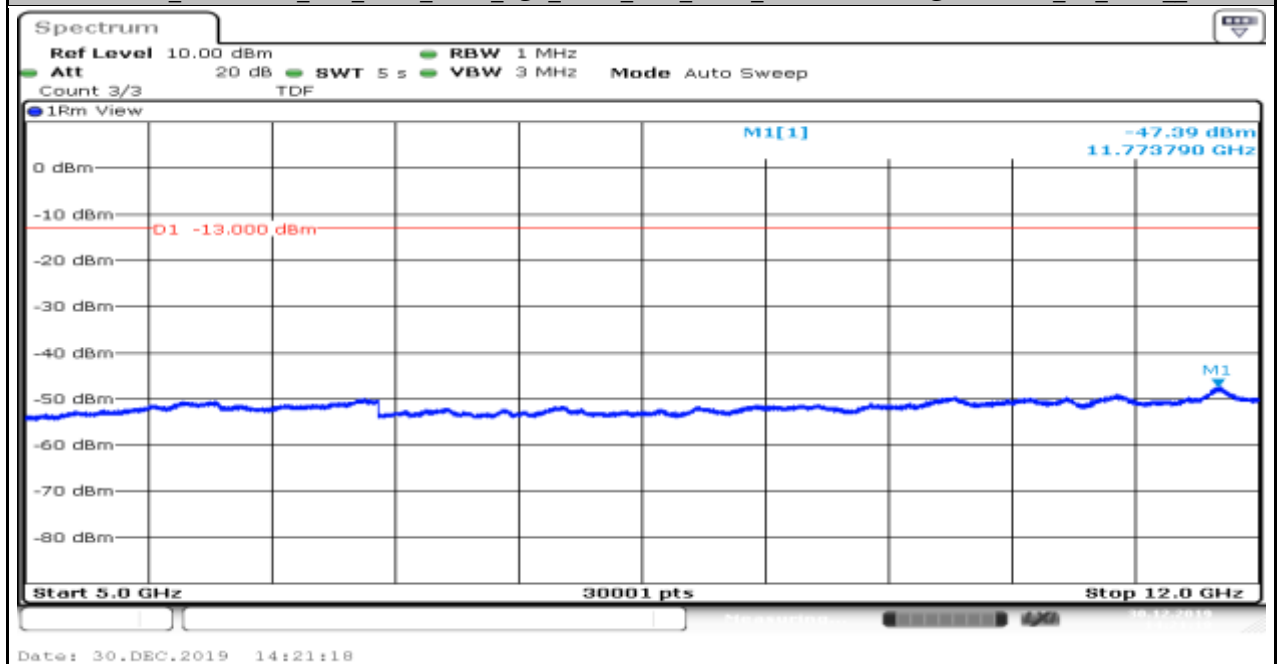
Band26_Stand-Alone_NaN_BPSK_26915_1@11_15kHz_1000_5000_1000~5000MHz@-37.71dBm_-13_PASS_



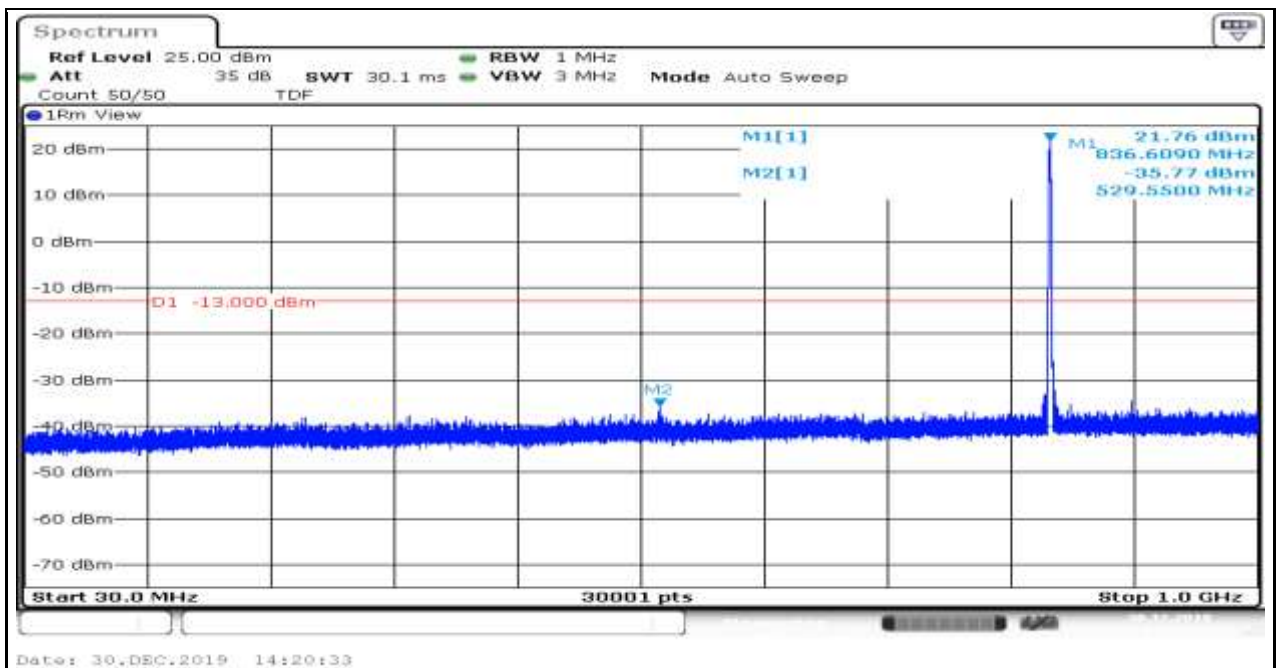
Band26_Stand-Alone_NaN_BPSK_26915_1@0_15kHz_12000_26500_12000~26500MHz@-41.35dBm_-13_PASS_



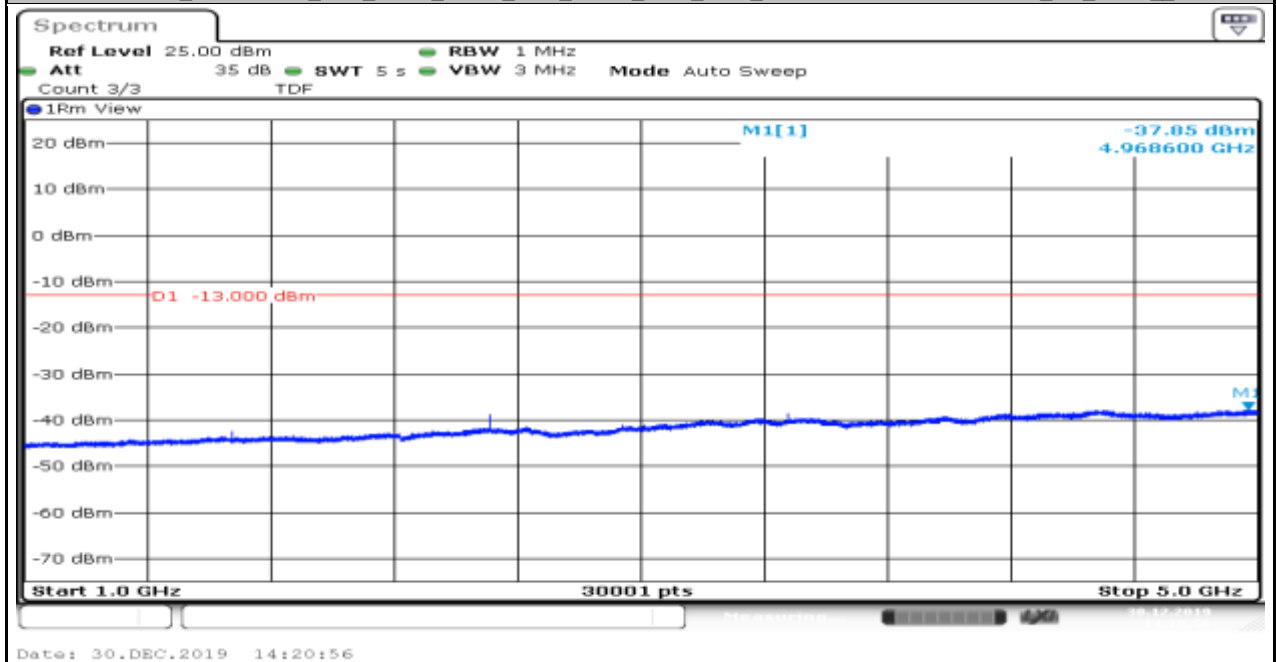
Band26_Stand-Alone_NaN_BPSK_26915_1@0_15kHz_5000_12000_5000~12000MHz@-47.39dBm_-13_PASS_



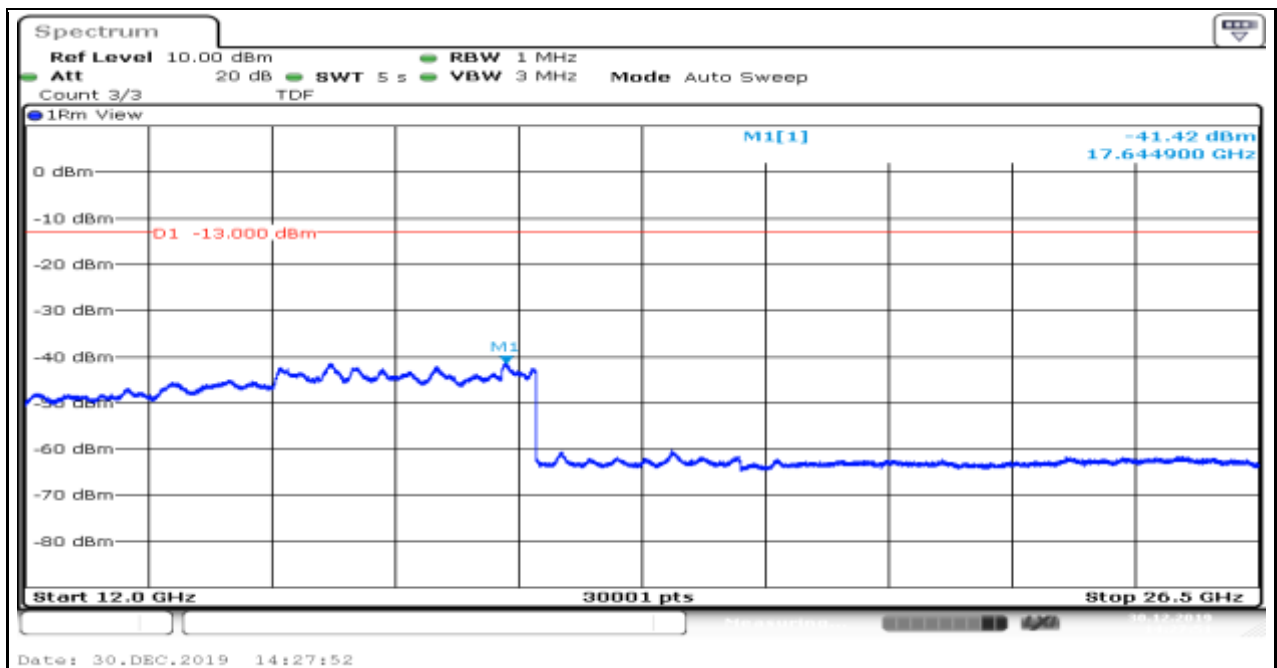
Band26_Stand-Alone_NaN_BPSK_26915_1@0_15kHz_30_1000_30~1000MHz@-35.77dBm_-13_PASS_



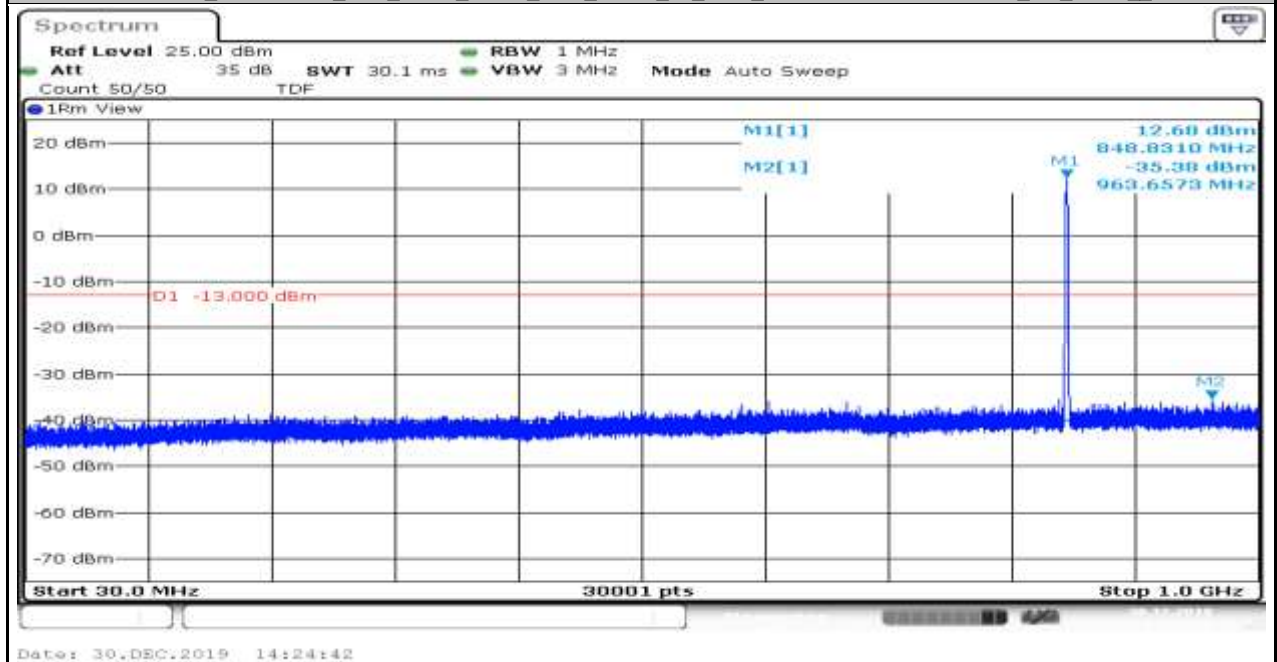
Band26_Stand-Alone_NaN_BPSK_26915_1@0_15kHz_1000_5000_1000-5000MHz@-37.85dBm_-13_PASS__



Band26_Stand-Alone_NaN_BPSK_27039_1@11_15kHz_12000_26500_12000-26500MHz@-41.42dBm_-13_PASS__

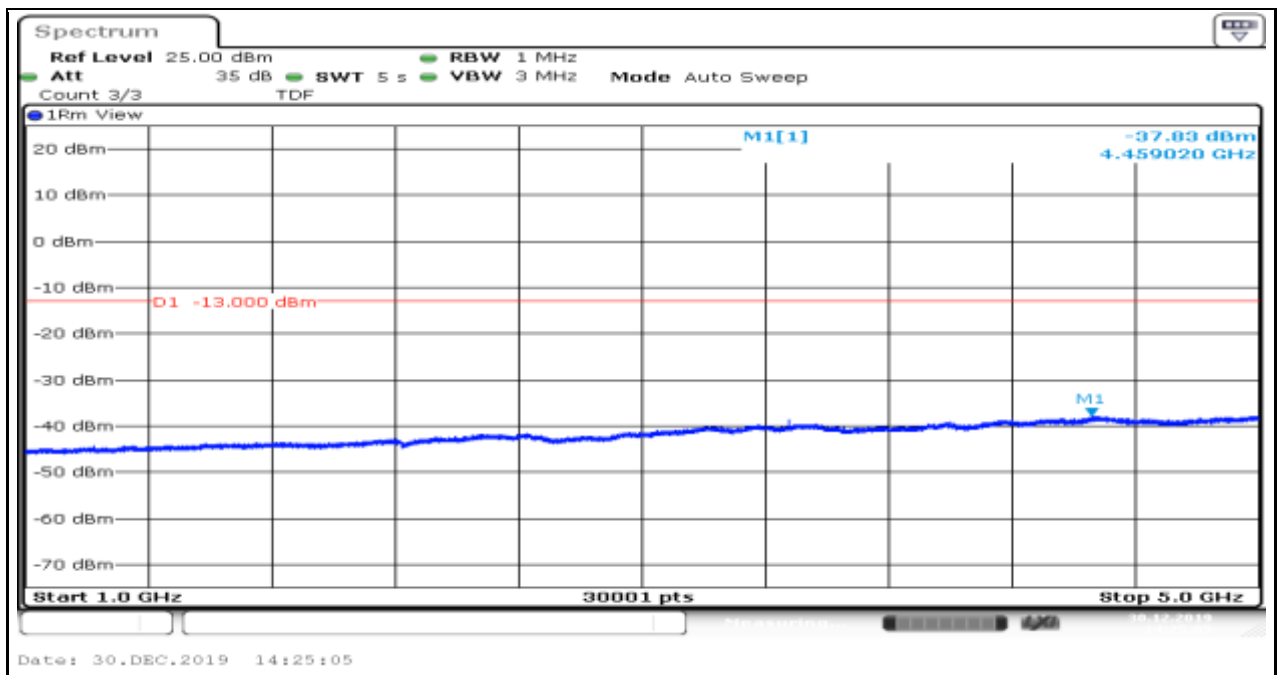


Band26_Stand-Alone_NaN_BPSK_27039_1@0_15kHz_30_1000_30~1000MHz@-35.38dBm_-13_PASS_

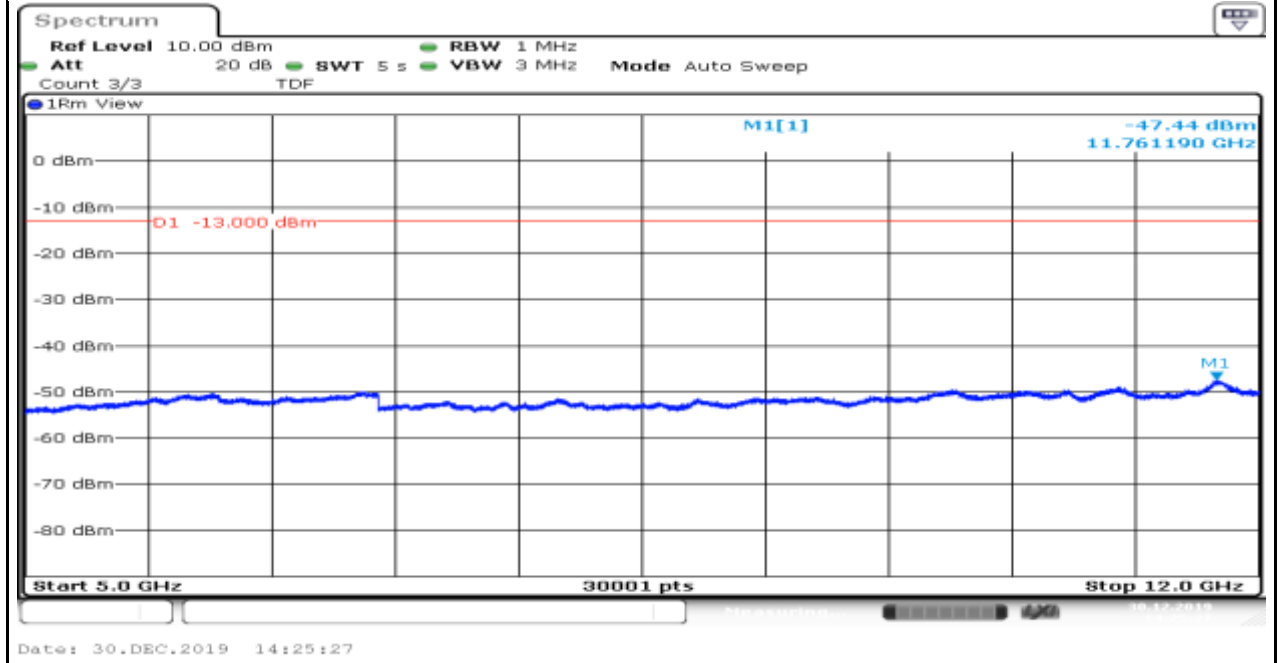


Band26_Stand-Alone_NaN_BPSK_27039_1@0_15kHz_1000_5000_1000~5000MHz@-37.83dBm_-13_PASS_

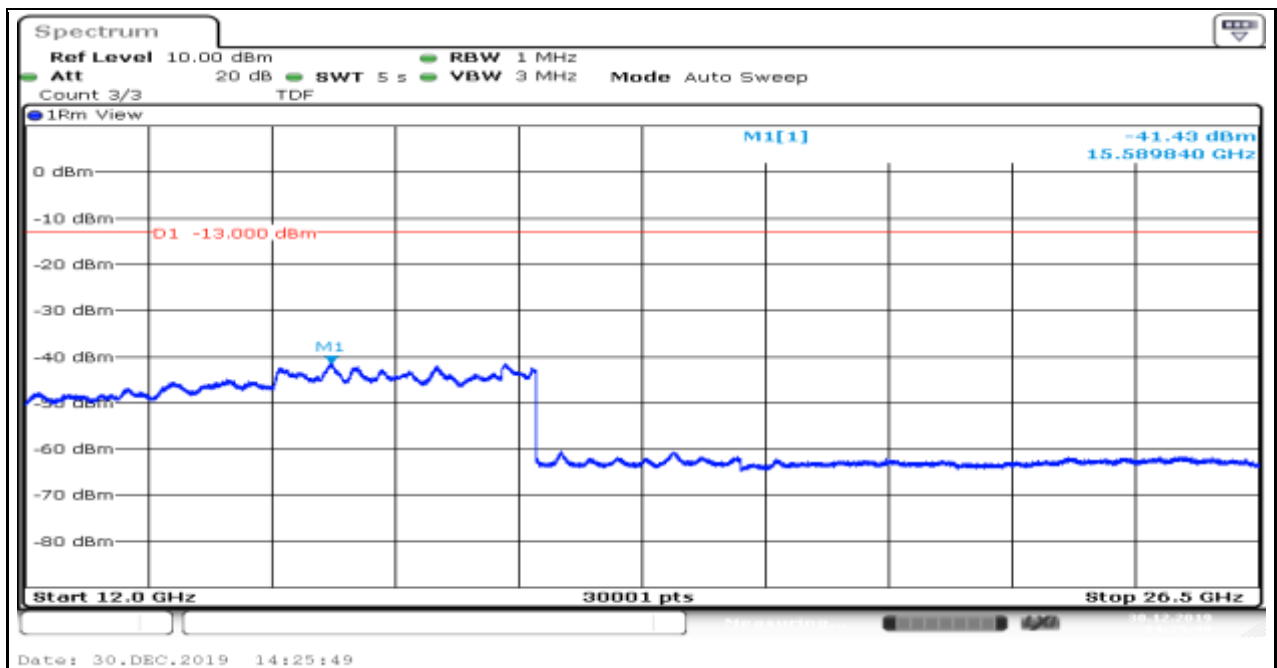
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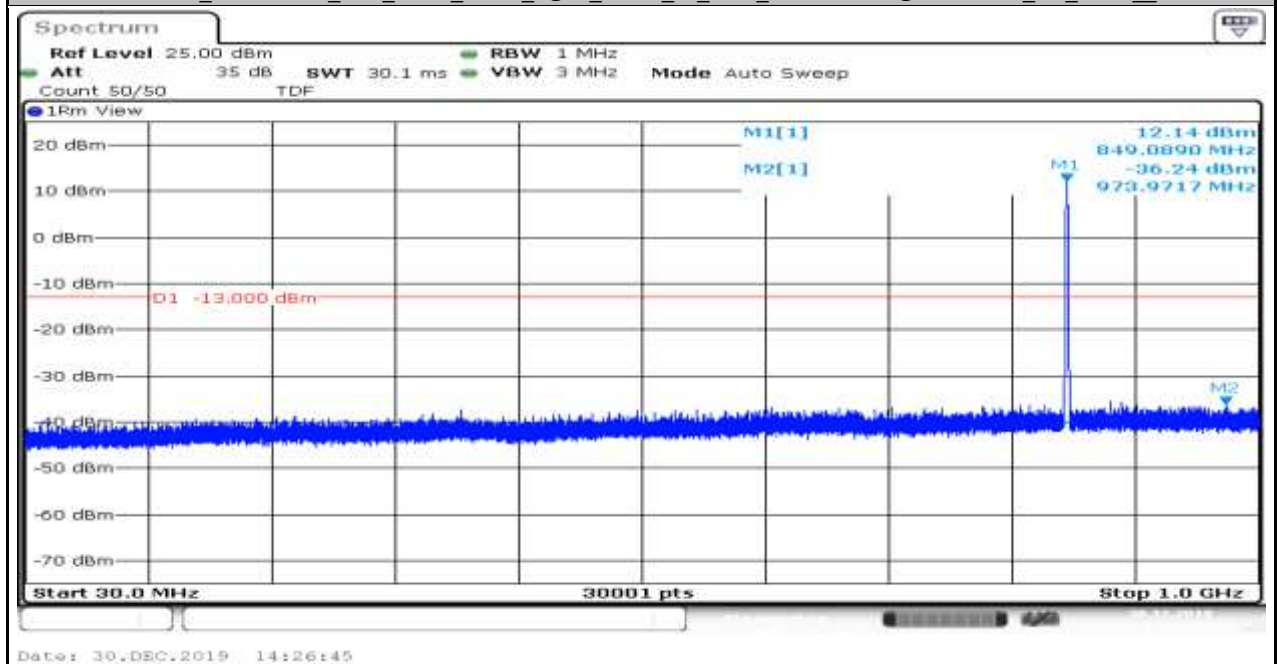
Band26_Stand-Alone_NaN_BPSK_27039_1@0_15kHz_5000_12000_5000-12000MHz@-47.44dBm_-13_PASS_



Band26_Stand-Alone_NaN_BPSK_27039_1@0_15kHz_12000_26500_12000-26500MHz@-41.43dBm_-13_PASS_

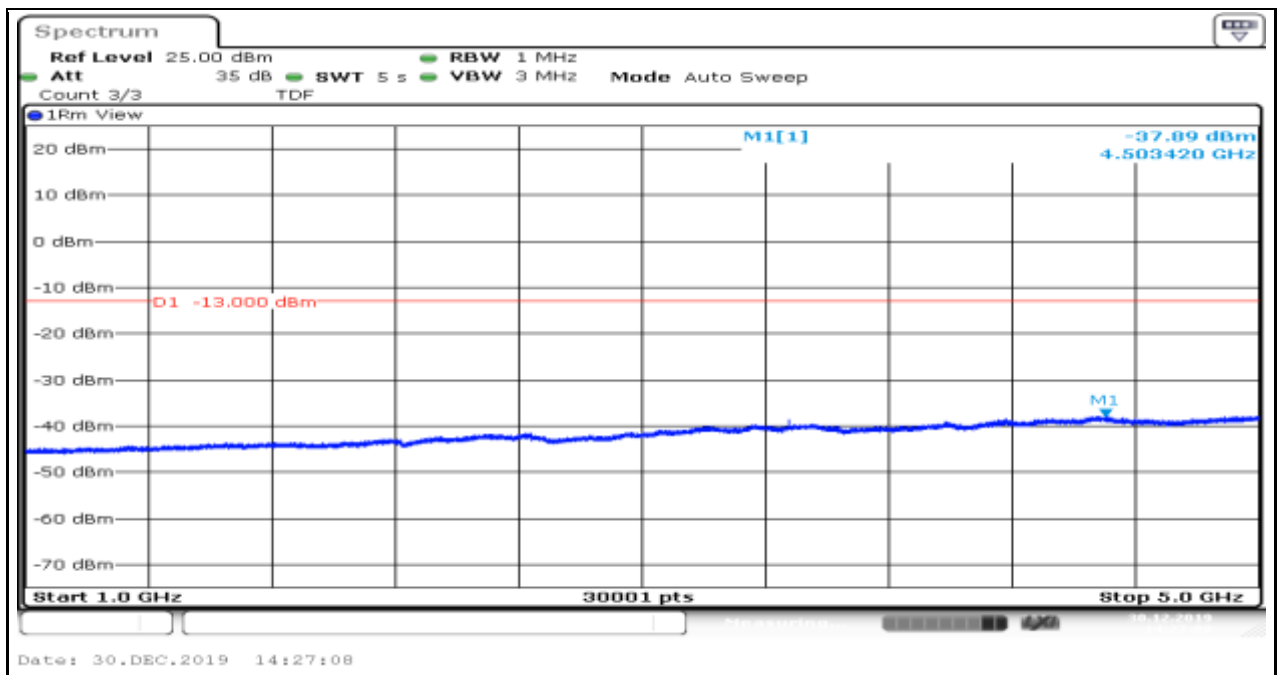


Band26_Stand-Alone_NaN_BPSK_27039_1@11_15kHz_30_1000_30-1000MHz@-36.24dBm_-13_PASS__

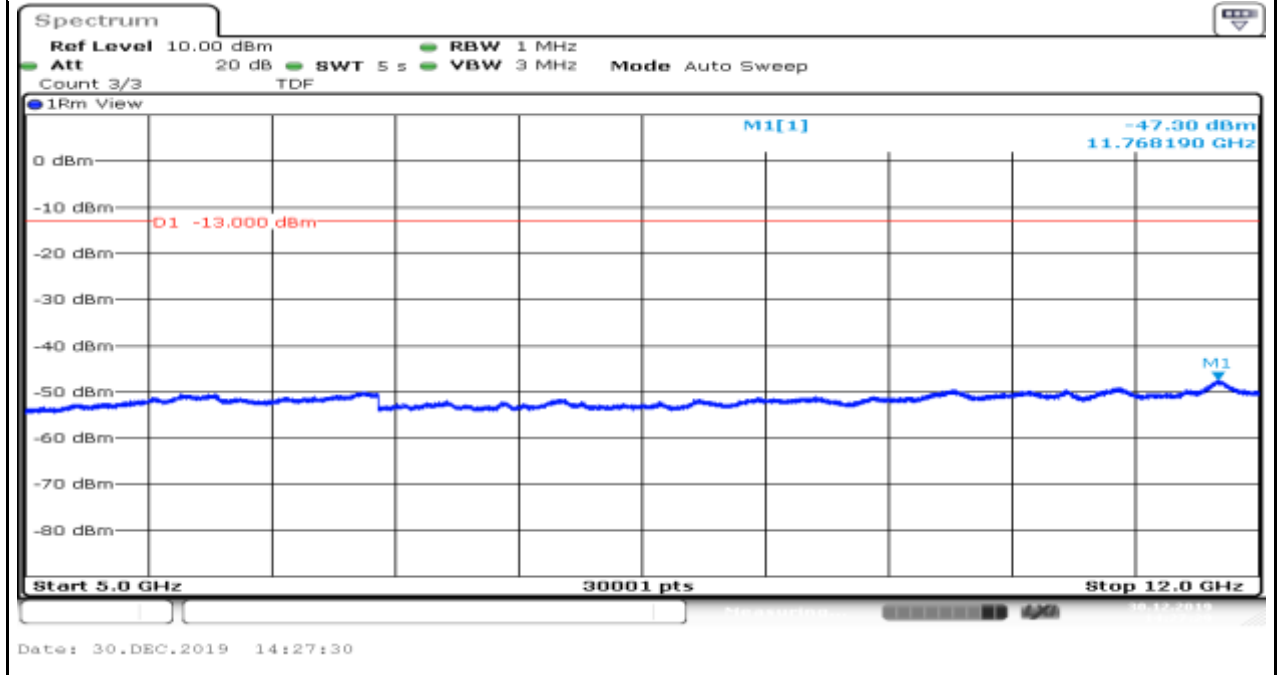


Band26_Stand-Alone_NaN_BPSK_27039_1@11_15kHz_1000_5000_1000-5000MHz@-37.89dBm_-13_PASS__

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Band26_Stand-Alone_NaN_BPSK_27039_1@11_15kHz_5000_12000_5000~12000MHz@-47.3dBm_-13_PASS_



Appendix H.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
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	NT	-8.85	-0.01058	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	HV	NT	-8.54	-0.010209	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	LV	NT	-8.38	-0.010018	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	NT	-9.1	-0.010879	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	HV	NT	-7.3	-0.008727	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	LV	NT	-7.74	-0.009253	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	HV	NT	-8.85	-0.01058	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	LV	NT	-11.39	-0.013616	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	NT	-11.72	-0.014011	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	HV	NT	-14.56	-0.017406	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	NT	-13.7	-0.016378	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	LV	NT	-14.06	-0.016808	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	80	-8.75	-0.01046	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	70	-8.7	-0.0104	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	60	-7.05	-0.008428	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	50	-8.5	-0.010161	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	40	-7.08	-0.008464	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	30	-6.9	-0.008249	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	20	-7.5	-0.008966	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	10	-7.78	-0.009301	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	0	-6.81	-0.008141	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	-10	-6.64	-0.007938	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	85	-5.81	-0.006946	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	-30	-7.91	-0.009456	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	30	-6.59	-0.007878	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	-20	-7.58	-0.009062	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	-40	-8.74	-0.010448	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	-30	-7.21	-0.008619	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	-20	-8.51	-0.010173	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	-10	-8.43	-0.010078	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	0	-8.68	-0.010377	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	85	-6.04	-0.007221	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	20	-8.44	-0.01009	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	40	-7.28	-0.008703	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	50	-7.61	-0.009097	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	60	-5.42	-0.006479	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	70	-5.84	-0.006981	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	80	-7.7	-0.009205	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	3.75kHz	NV	-40	-7.3	-0.008727	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@47	3.75kHz	NV	10	-8.17	-0.009767	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	40	-14.91	-0.017824	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	-30	-12.1	-0.014465	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	85	-9.67	-0.01156	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	-20	-12.45	-0.014883	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	-10	-15.35	-0.01835	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	0	-11.52	-0.013772	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	10	-8.31	-0.009934	±2.5	PASS

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Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	30	-12.06	-0.014417	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	-40	-11.16	-0.013341	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	50	-11.97	-0.01431	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	60	-12.13	-0.014501	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	70	-11.19	-0.013377	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	80	-11.29	-0.013497	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	85	-11.77	-0.014071	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	40	-9.6	-0.011476	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	80	-10	-0.011955	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@0	15kHz	NV	20	-10.14	-0.012122	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	-40	-10.09	-0.012062	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	50	-10.83	-0.012947	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	70	-10.61	-0.012684	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	30	-9.87	-0.011799	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	20	-7.12	-0.008512	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	10	-7.84	-0.009372	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	0	-9.81	-0.011727	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	-10	-8.04	-0.009611	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	-20	-9.61	-0.011488	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	-30	-11.13	-0.013305	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26915	1@11	15kHz	NV	60	-9.06	-0.010831	±2.5	PASS