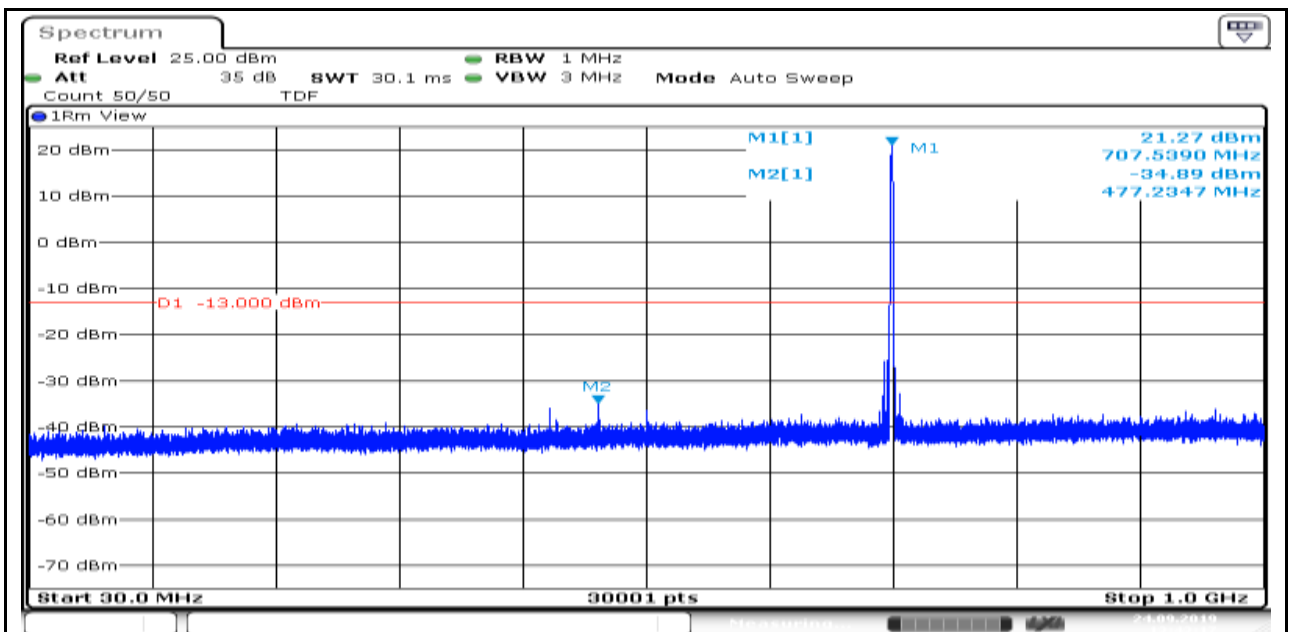
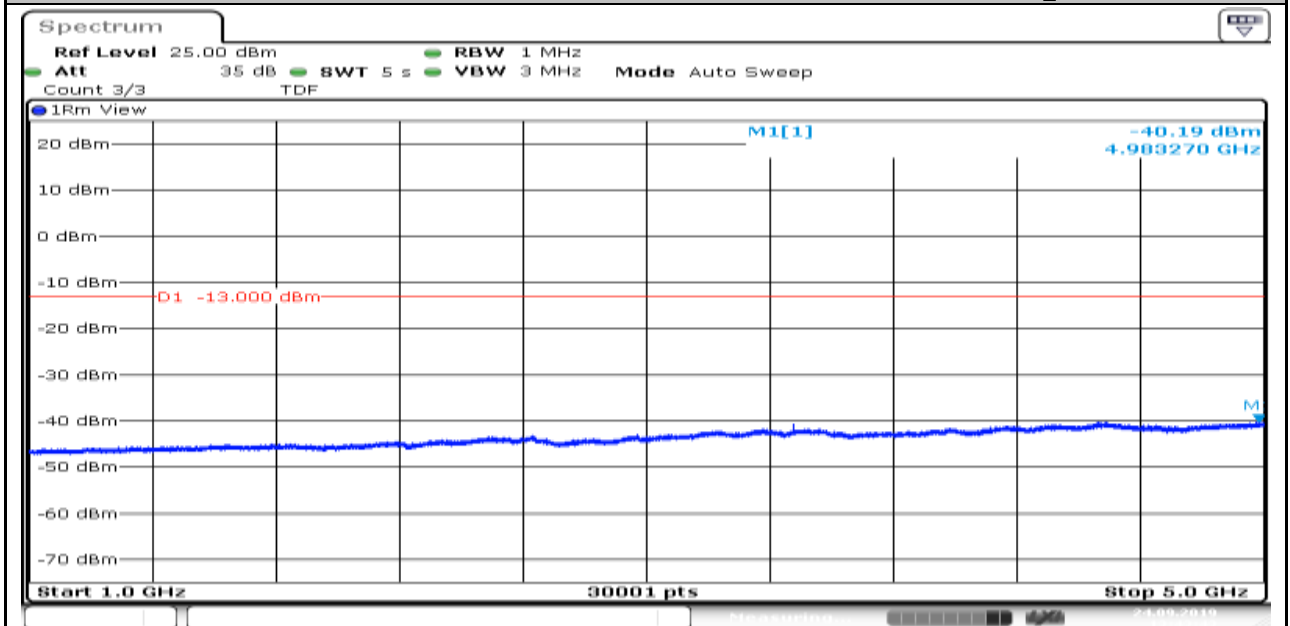
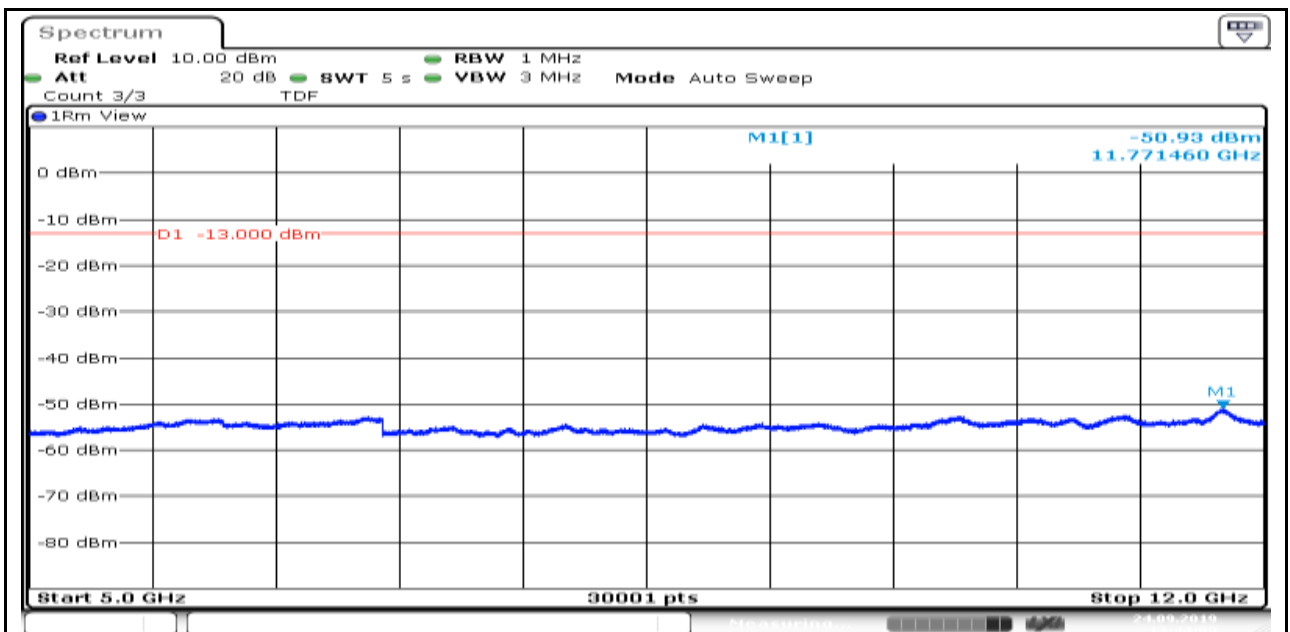




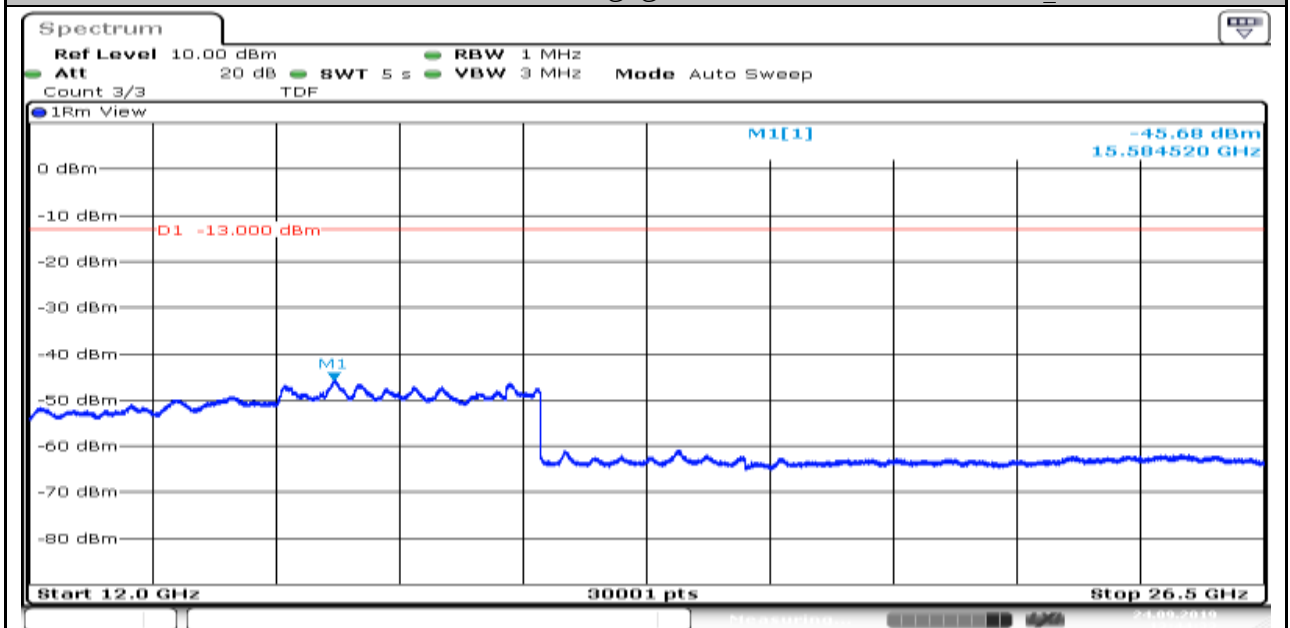
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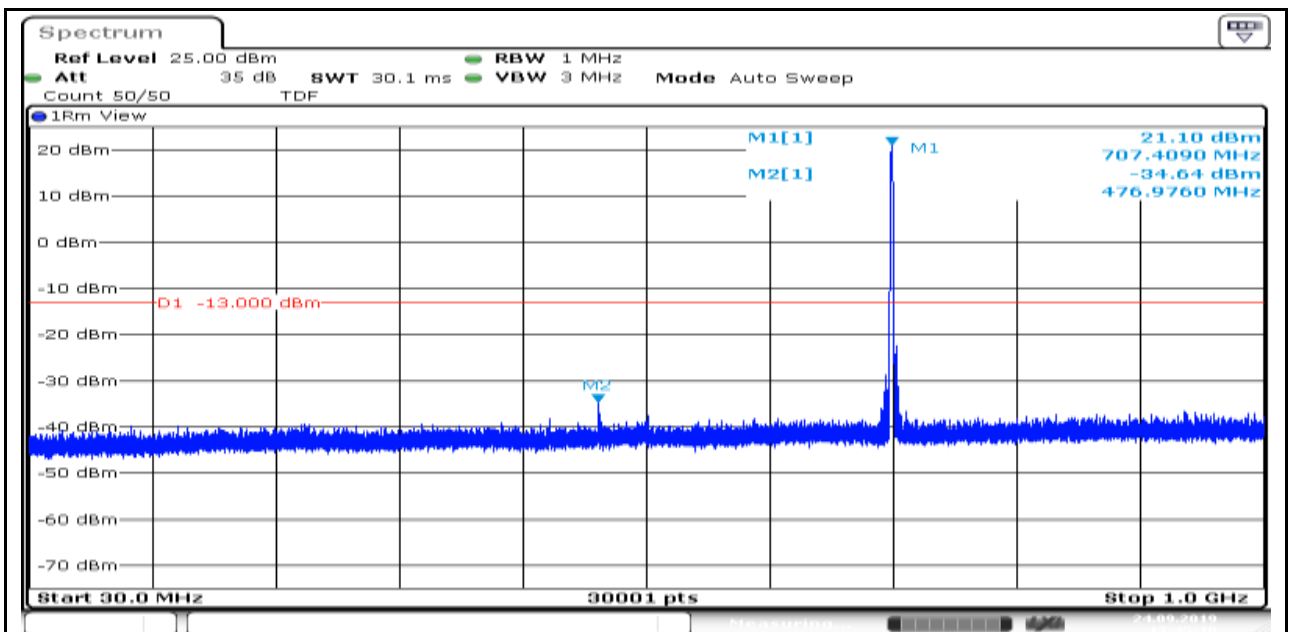
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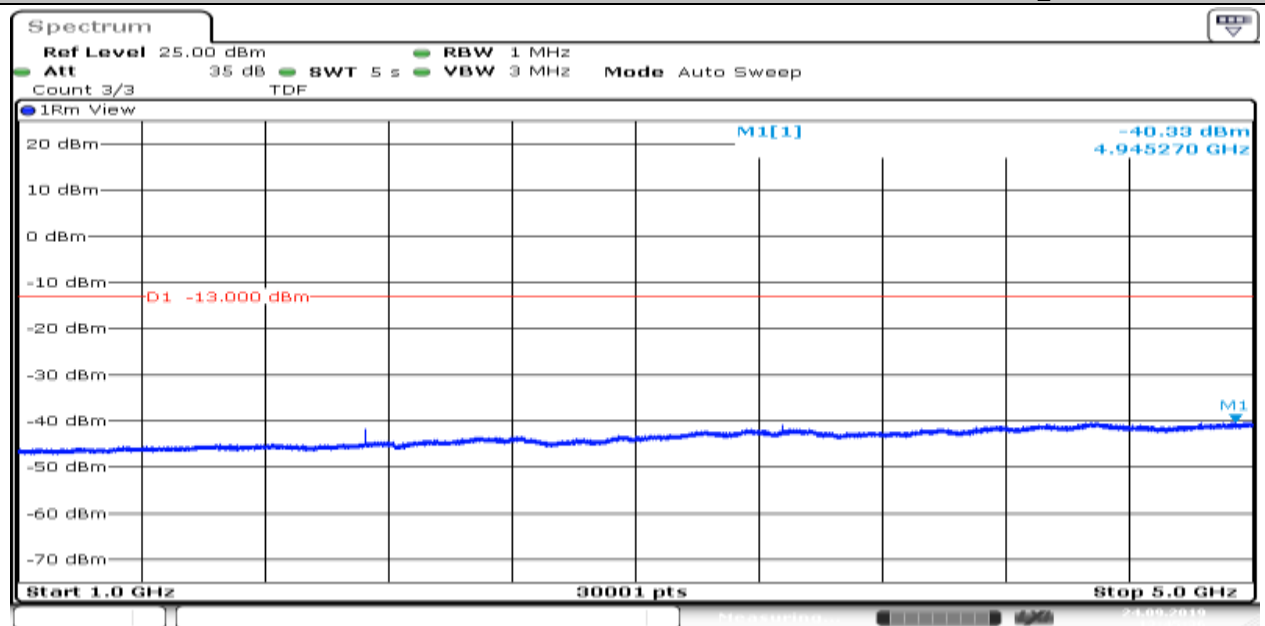
Band12_Stand-Alone_NaN_BPSK_23095_1@0_15kHz_12000_26500_12000~26500MHz@-45.68dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23095-1@0@15kHz-BPSK-NTNV-2019924123626.Gif_



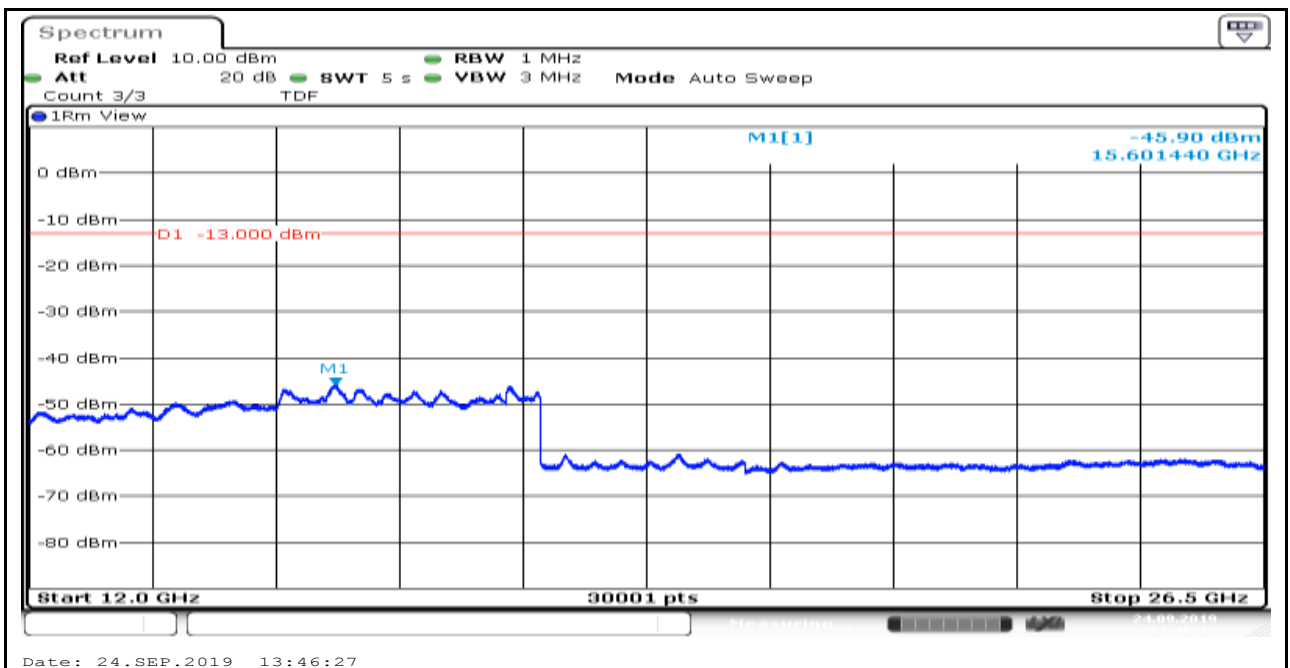
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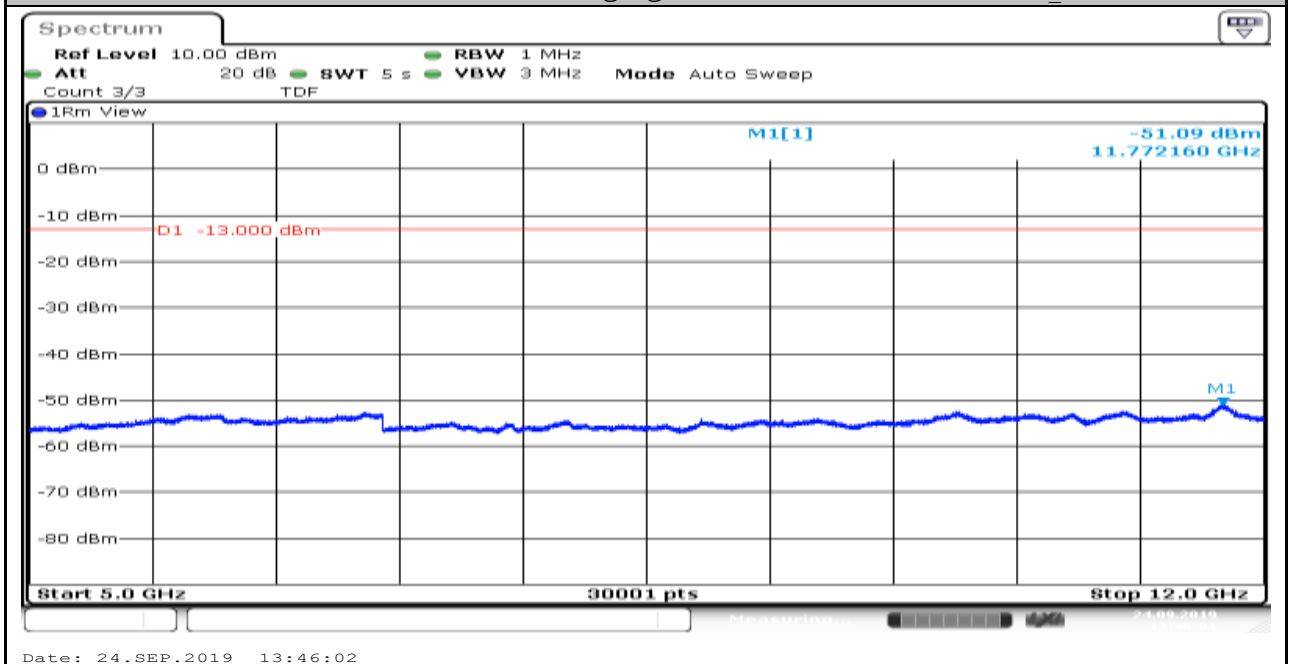
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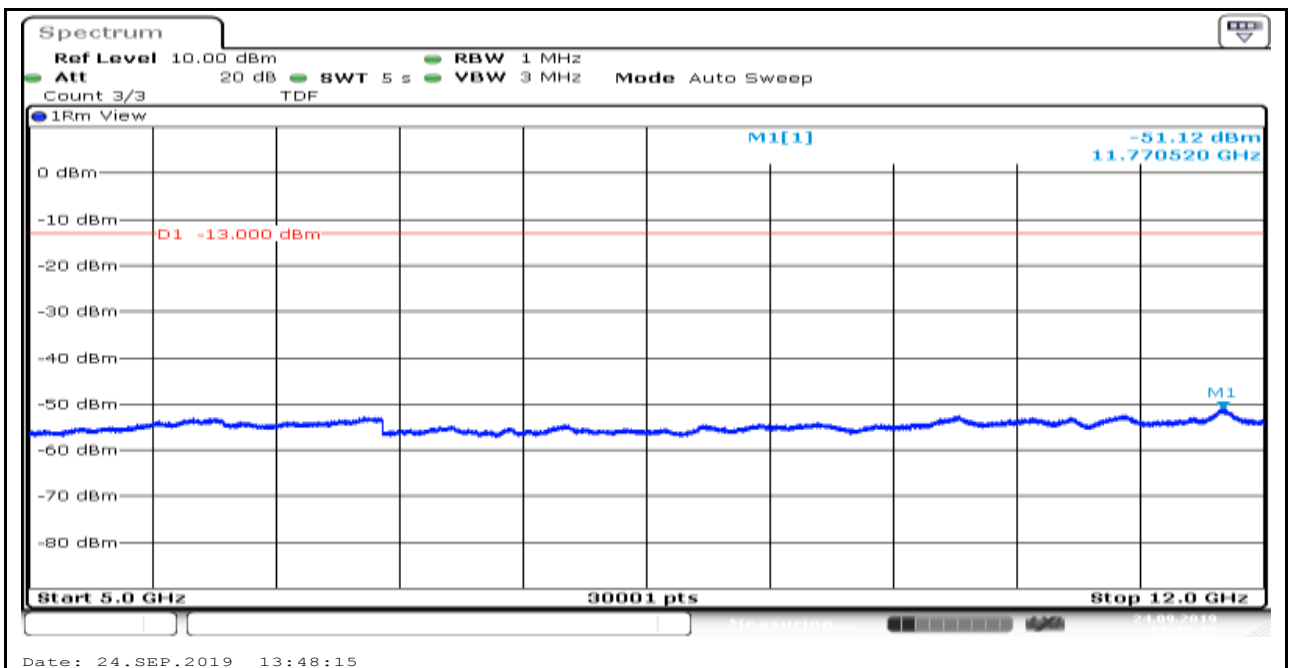
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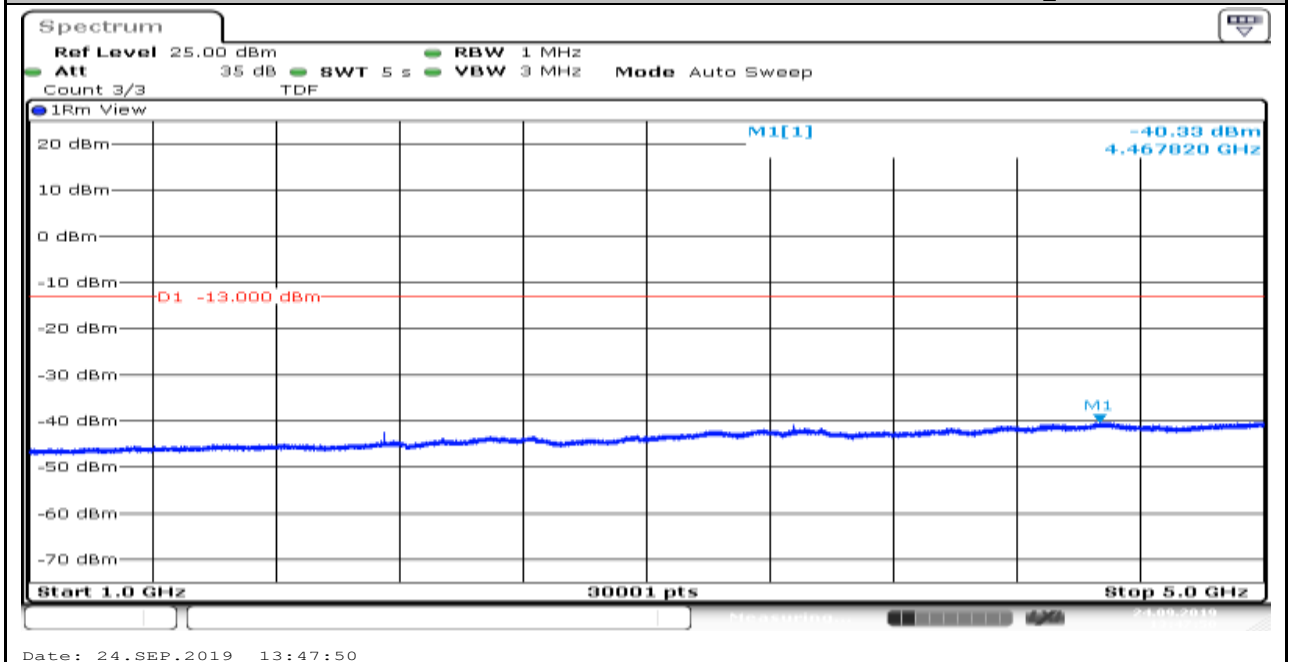
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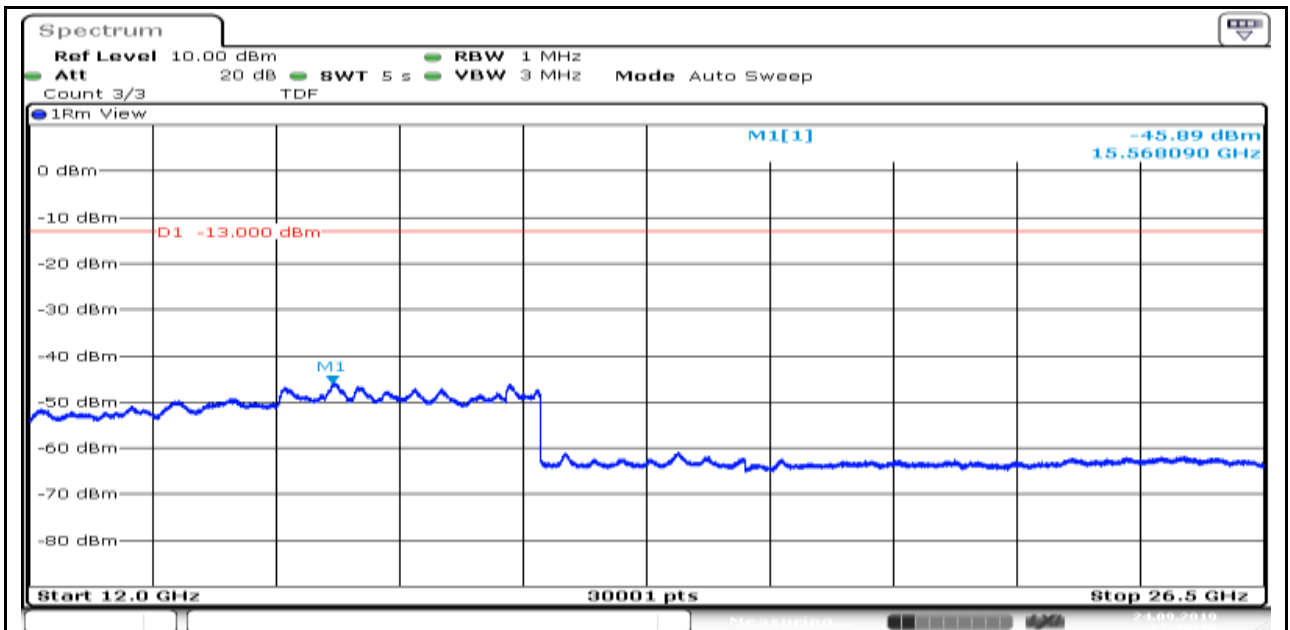
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NB-Band12-Stand-Alone-NaN-23179-1@0@15kHz-BPSK-NTNV-201992412408.Gif_



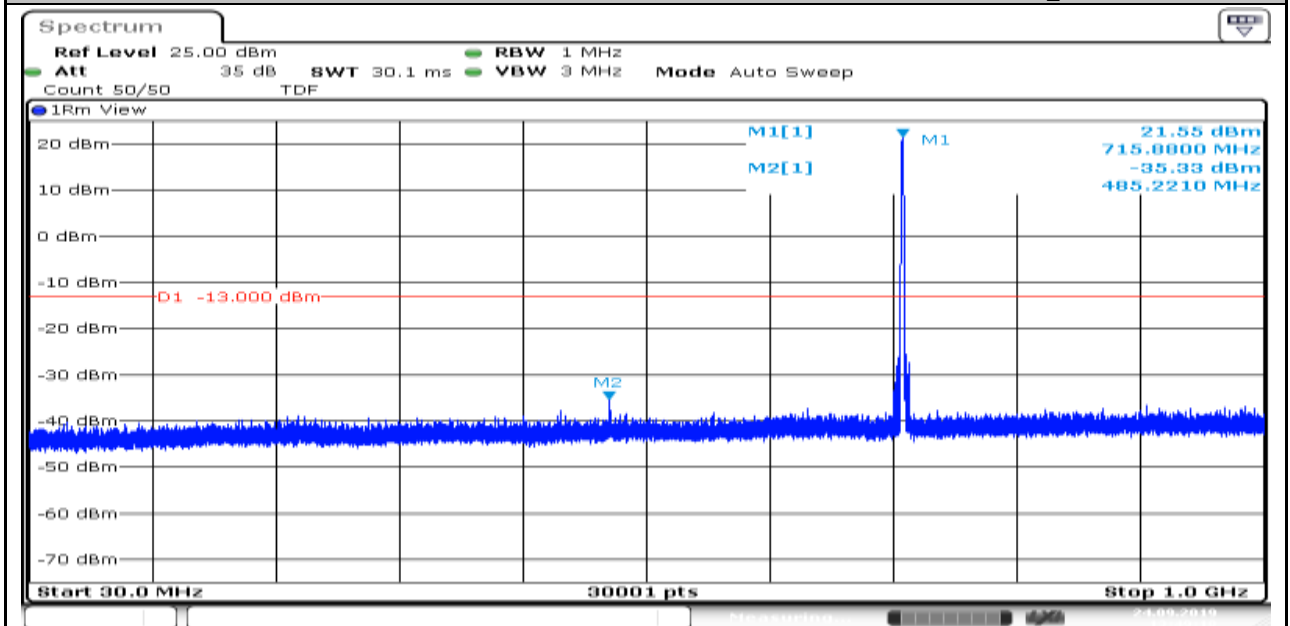
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_1000_5000_1000~5000MHz@-40.33dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23179-1@0@15kHz-BPSK-NTNV-2019924123943.Gif_



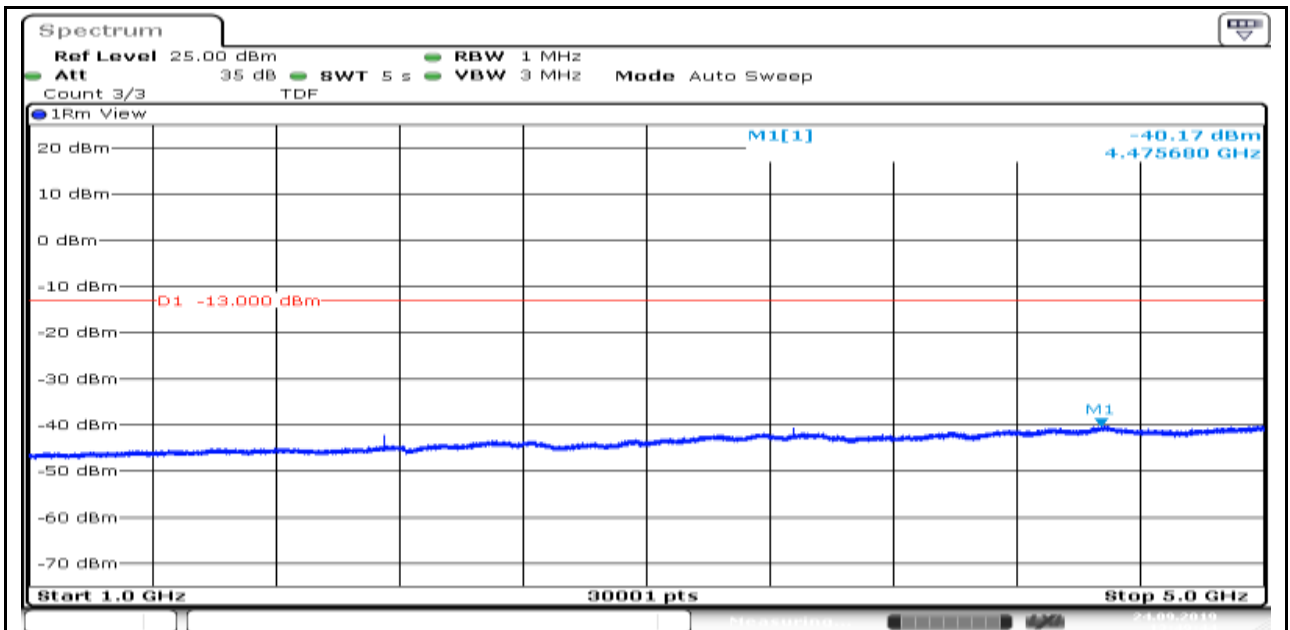
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_12000_26500_12000~26500MHz@-45.89dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23179-1@0@15kHz-BPSK-NTNV-2019924124034.Gif_



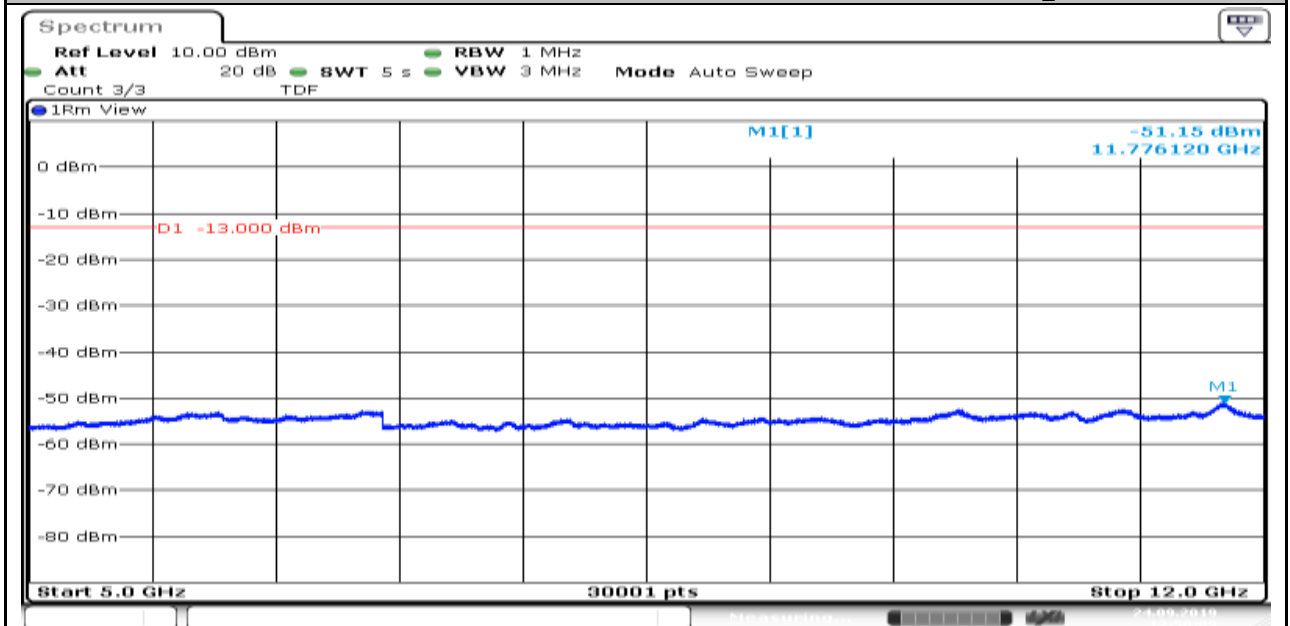
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_30_1000_30~1000MHz@-35.33dBm_-13_PASS_FCC_ME910G1\FCC_NB_IOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23179-1@11@15kHz-BPSK-NTNV-2019924124111.Gif_



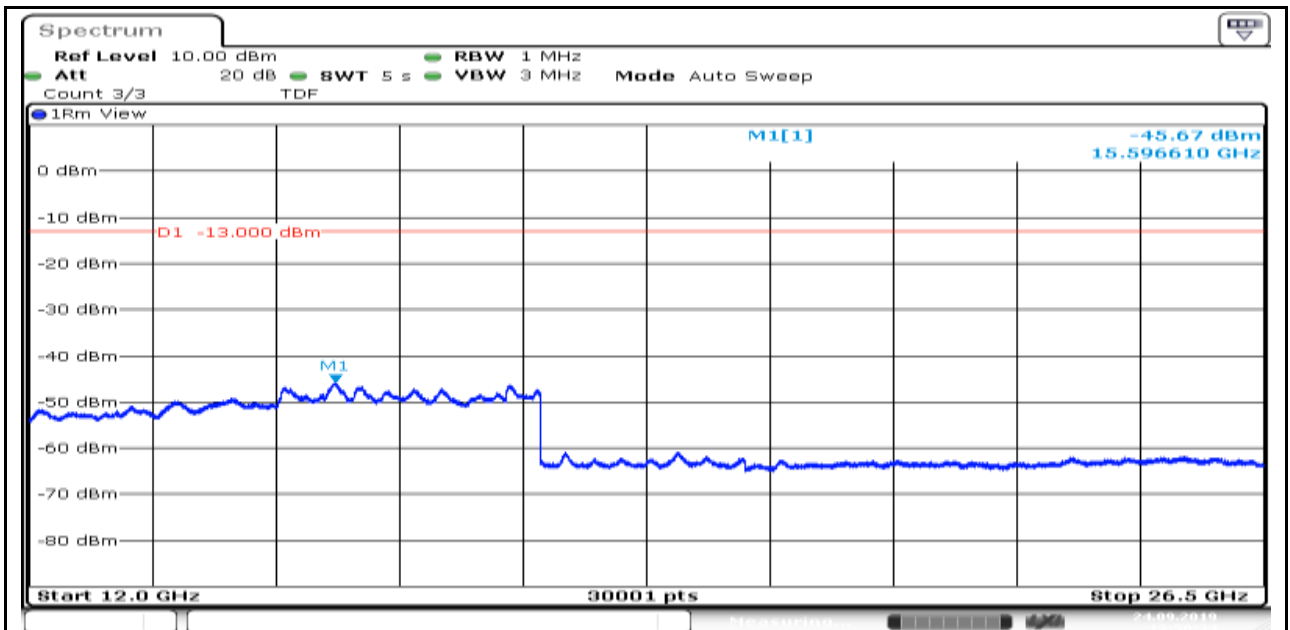
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_1000_5000_1000~5000MHz@-40.17dBm_-13_PASS_FCC_ME910G1\FCC_NB_IOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23179-1@11@15kHz-BPSK-NTNV-2019924124137.Gif_



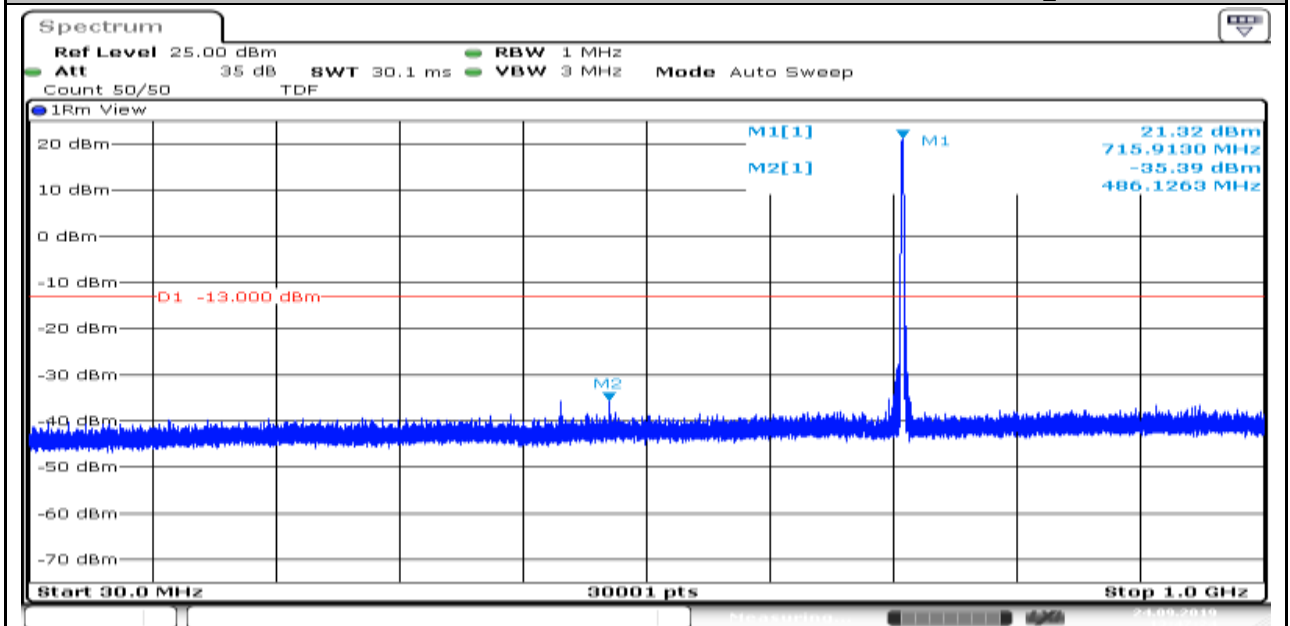
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Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_12000_26500_12000~26500MHz@-45.67dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23179-1@11@15kHz-BPSK-NTNV-2019924124227.Gif_



Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_30_1000_30-1000MHz@-35.39dBm_-13_PASS_FCC_ME910G1\FCC_NBI
OT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category
NB-Band12-Stand-Alone-NaN-23179-1@0@15kHz-BPSK-NTNV-2019924123917.Gif_



Appendix D.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
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	HV	NT	5.66	0.008000	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	LV	NT	-7.38	-0.010431	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	NT	-2.13	-0.003011	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	HV	NT	-5.74	-0.008113	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	LV	NT	3.69	0.005216	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	NT	-6.34	-0.008961	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	HV	NT	-7.48	-0.010572	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	LV	NT	8.81	0.012452	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	NT	11.17	0.015788	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	HV	NT	-6.17	-0.008721	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	LV	NT	-8.91	-0.012594	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	NT	7.91	0.011180	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	50	9.96	0.014078	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-30	12.92	0.018261	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	30	8.70	0.012297	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	20	10.59	0.014968	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	10	14.88	0.021032	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	0	-9.98	-0.014106	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-10	-7.91	-0.011180	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	50	8.24	0.011647	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-30	-6.82	-0.009640	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-30	3.25	0.004594	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	40	11.03	0.015590	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	30	-10.74	-0.015180	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	20	-6.18	-0.008735	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	10	7.94	0.011223	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	0	-7.40	-0.010459	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-10	7.91	0.011180	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-20	-6.29	-0.008890	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-20	-7.68	-0.010855	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	50	-4.88	-0.006898	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	40	-2.17	-0.003067	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	30	2.88	0.004071	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	20	6.95	0.009823	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	10	-4.08	-0.005767	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	0	3.05	0.004311	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-10	-6.32	-0.008933	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	40	8.57	0.012113	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-30	2.75	0.003887	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	50	-5.18	-0.007322	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	40	4.73	0.006686	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	30	-1.95	-0.002756	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	20	-4.03	-0.005696	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	10	-7.01	-0.009908	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	0	-5.11	-0.007223	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-10	-4.19	-0.005922	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-20	-3.55	-0.005018	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-20	-5.29	-0.007477	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-40	-7.78	-0.010996	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	60	-6.51	-0.009201	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	70	-7.81	-0.011039	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	80	-4.02	-0.005682	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	85	-4.31	-0.006092	±2.5	PASS

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Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-40	-7.81	-0.011039	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	60	5.75	0.008127	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	70	-5.21	-0.007364	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-40	-9.61	-0.013583	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	85	9.08	0.012834	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	85	-8.15	-0.011519	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	60	11.34	0.016028	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	70	-11.00	-0.015548	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	80	11.97	0.016919	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	85	-8.65	-0.012226	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-40	7.52	0.010629	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	60	-8.94	-0.012636	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	70	10.73	0.015166	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	80	8.30	0.011731	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	80	-6.32	-0.008933	±2.5	PASS

Appendix E: Test Results of Band 13 for NB-IoT operation

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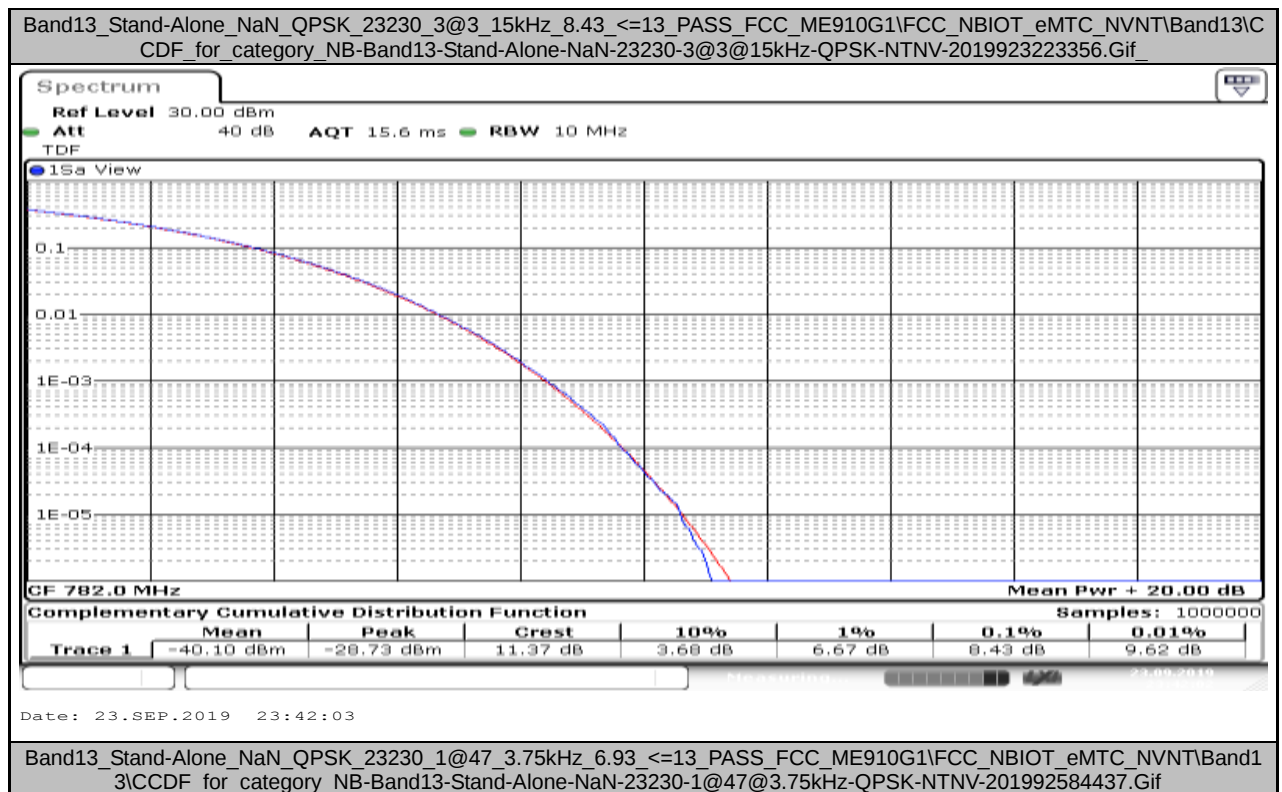
Appendix E.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for NB Test Result

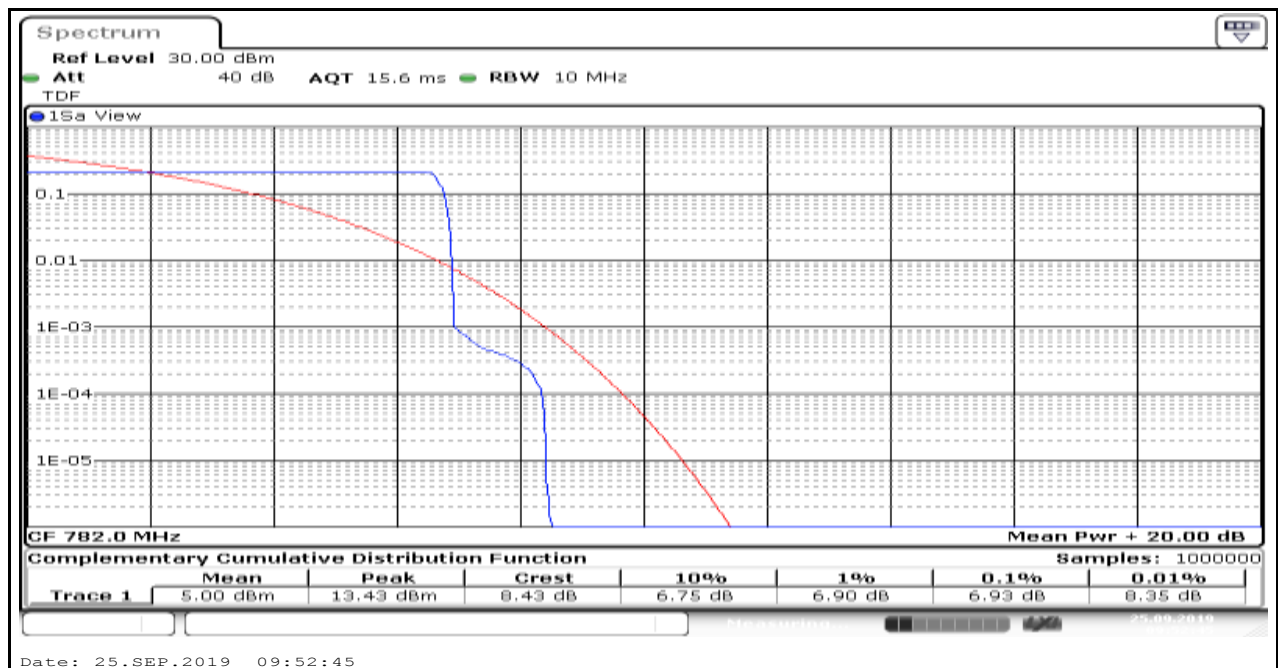
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band13	Stand-Alone	NaN	QPSK	23181	3@3	15kHz	7.13	7.12	0.005	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	15kHz	7.32	7.31	0.005	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@11	15kHz	7.13	7.12	0.005	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	7.52	7.51	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	7.45	7.44	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@0	3.75kHz	20.25	20.24	0.106	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@47	3.75kHz	20.12	20.11	0.103	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@0	15kHz	20.67	20.66	0.116	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@11	15kHz	20.59	20.58	0.114	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	3@3	15kHz	20.85	20.84	0.121	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	20.82	20.81	0.121	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	20.73	20.72	0.118	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	20.27	20.26	0.106	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	3@3	15kHz	20.99	20.98	0.125	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	20.2	20.19	0.104	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@0	3.75kHz	20.28	20.27	0.106	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@0	15kHz	20.81	20.8	0.120	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@11	15kHz	20.74	20.73	0.118	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	3@3	15kHz	20.94	20.93	0.124	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@47	3.75kHz	20.21	20.2	0.105	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	7.68	7.67	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	7.62	7.61	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	15kHz	7.48	7.47	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@11	15kHz	7.41	7.4	0.005	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	3@3	15kHz	7.4	7.39	0.005	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	3@3	15kHz	7.13	7.12	0.005	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	7.2	7.19	0.005	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@47	3.75kHz	7.43	7.42	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	7.29	7.28	0.005	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	3.75kHz	7.47	7.46	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@0	15kHz	20.53	20.52	0.113	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@11	15kHz	20.44	20.43	0.110	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	3@3	15kHz	20.84	20.83	0.121	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@0	3.75kHz	20.15	20.14	0.103	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@47	3.75kHz	20.1	20.09	0.102	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	3@3	15kHz	20.98	20.97	0.125	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@47	3.75kHz	20.26	20.25	0.106	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	20.59	20.58	0.114	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	20.58	20.57	0.114	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	3.75kHz	20.28	20.27	0.106	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@0	3.75kHz	20.23	20.22	0.105	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@47	3.75kHz	20.21	20.2	0.105	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	3@3	15kHz	21.03	21.02	0.126	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@11	15kHz	20.51	20.5	0.112	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@0	15kHz	20.55	20.54	0.113	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	3.75kHz	5.2	5.19	0.003	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	7.4	7.39	0.005	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	3@3	15kHz	7.41	7.4	0.005	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@47	3.75kHz	7.58	7.57	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	7.42	7.41	0.006	3	PASS

Appendix E.2: Peak-to-Average Ratio(CCDF) for NB Test Result

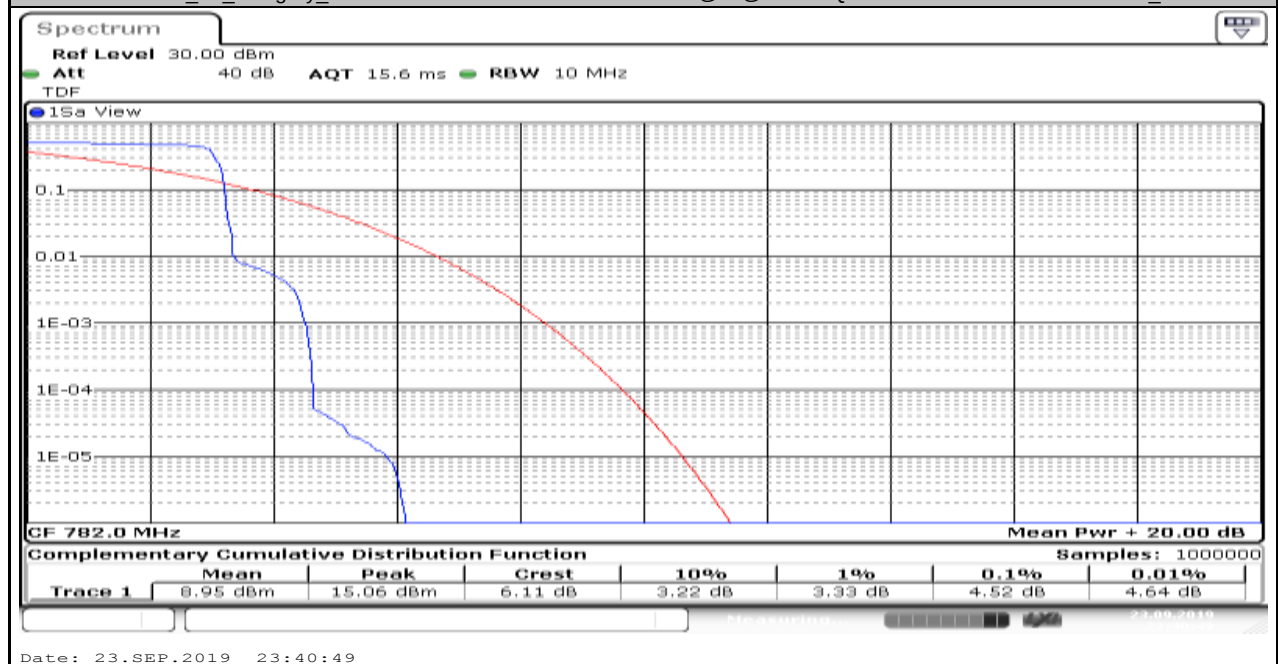
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band13	Stand-Alone	NaN	QPSK	23230	3@3	15kHz	8.43	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	6.93	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	4.52	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	4.49	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	1.62	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	3@3	15kHz	9.77	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	11.65	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	8.46	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@47	3.75kHz	2.03	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	3.75kHz	8.52	<=13	PASS

Test Graphs

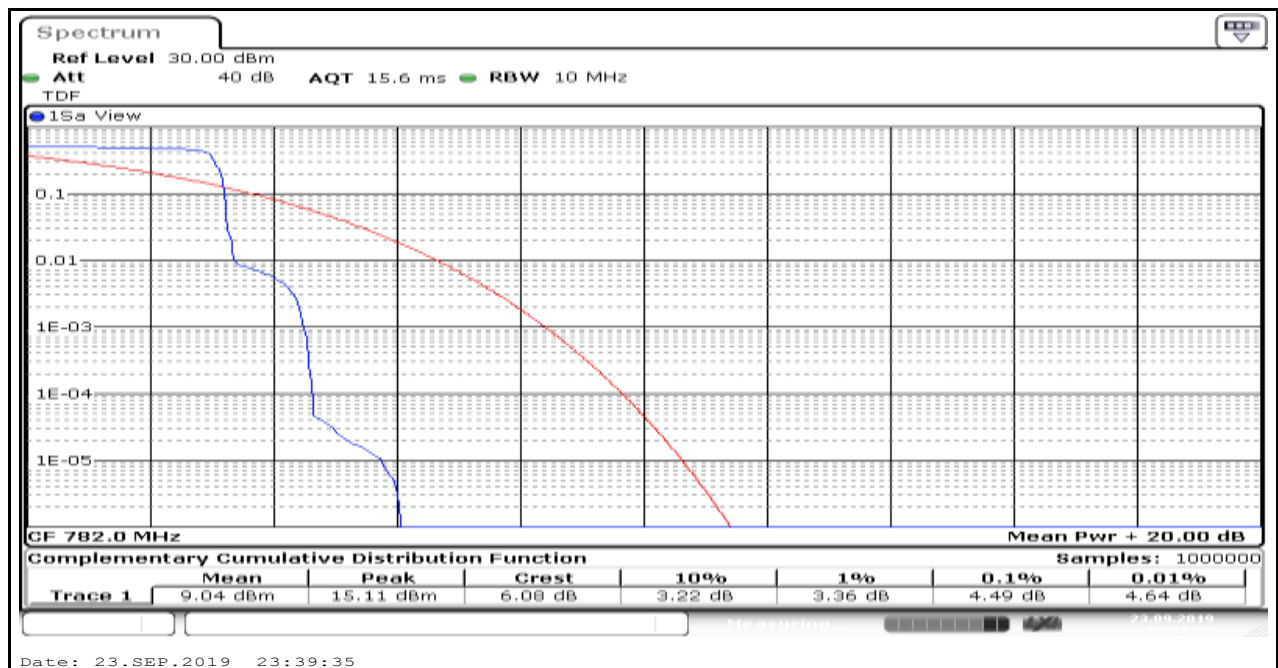




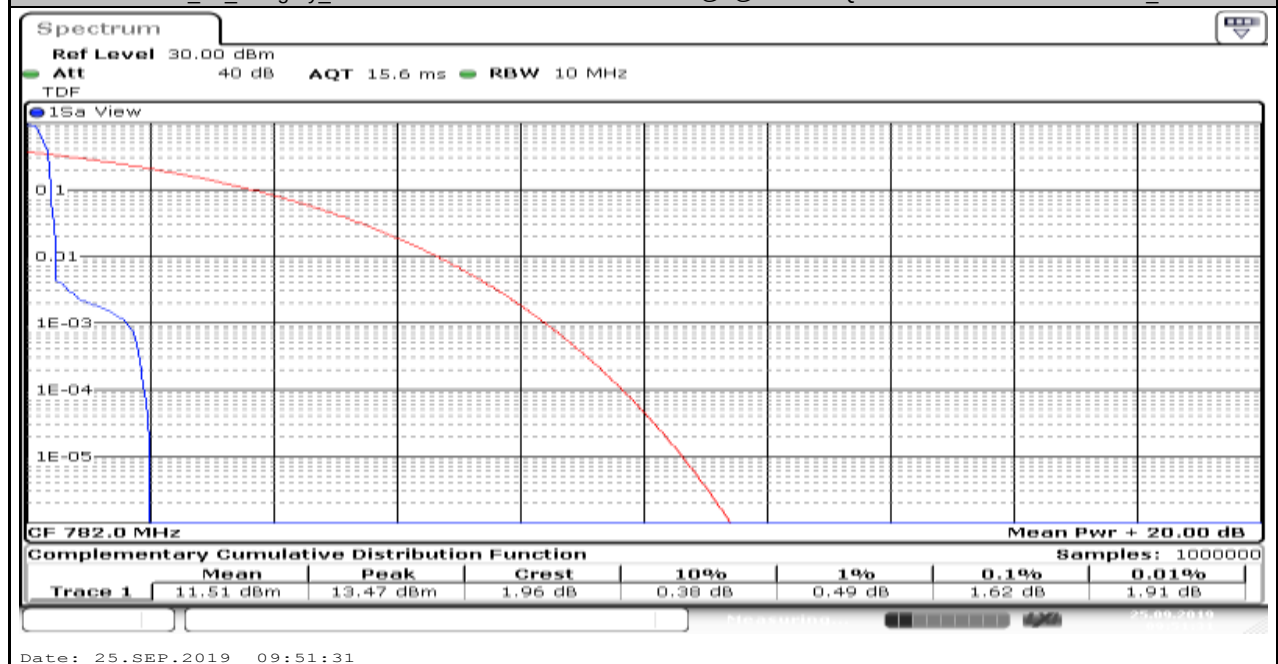
Band13_Stand-Alone_NaN_QPSK_23230_1@11_15kHz_4.52_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\CCDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@11@15kHz-QPSK-NTNV-2019923223242.Gif_



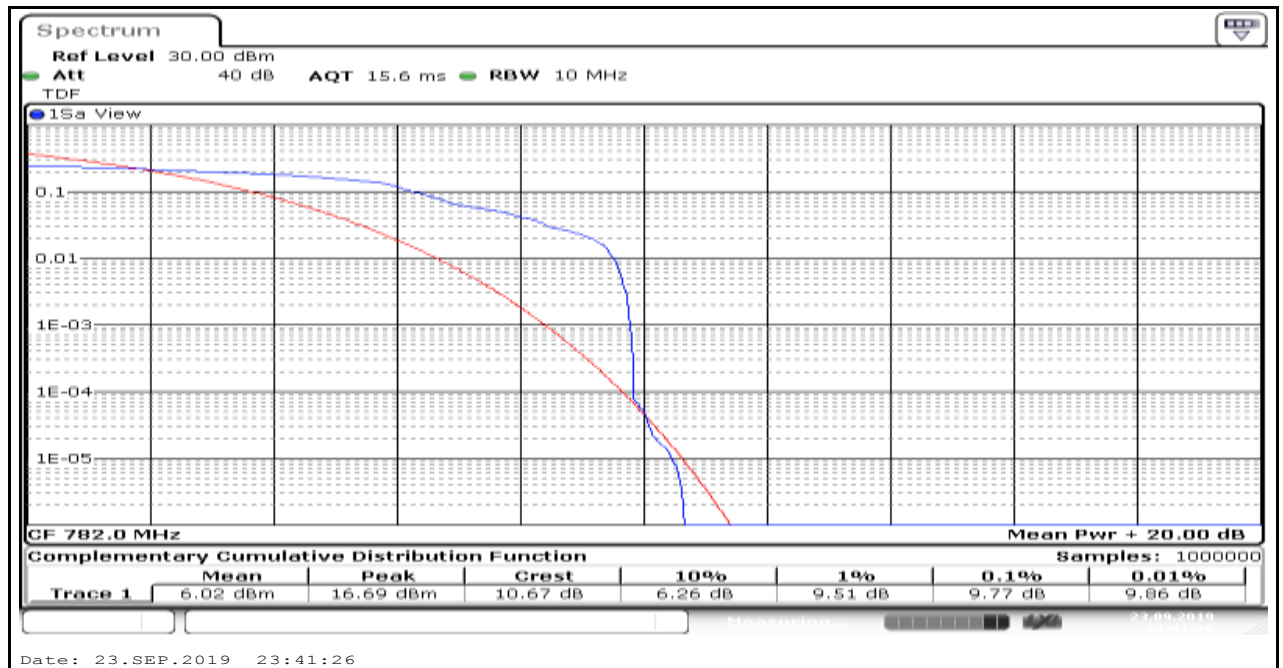
Band13_Stand-Alone_NaN_QPSK_23230_1@0_15kHz_4.49_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\CDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@0@15kHz-QPSK-NTNV-2019923223129.Gif_



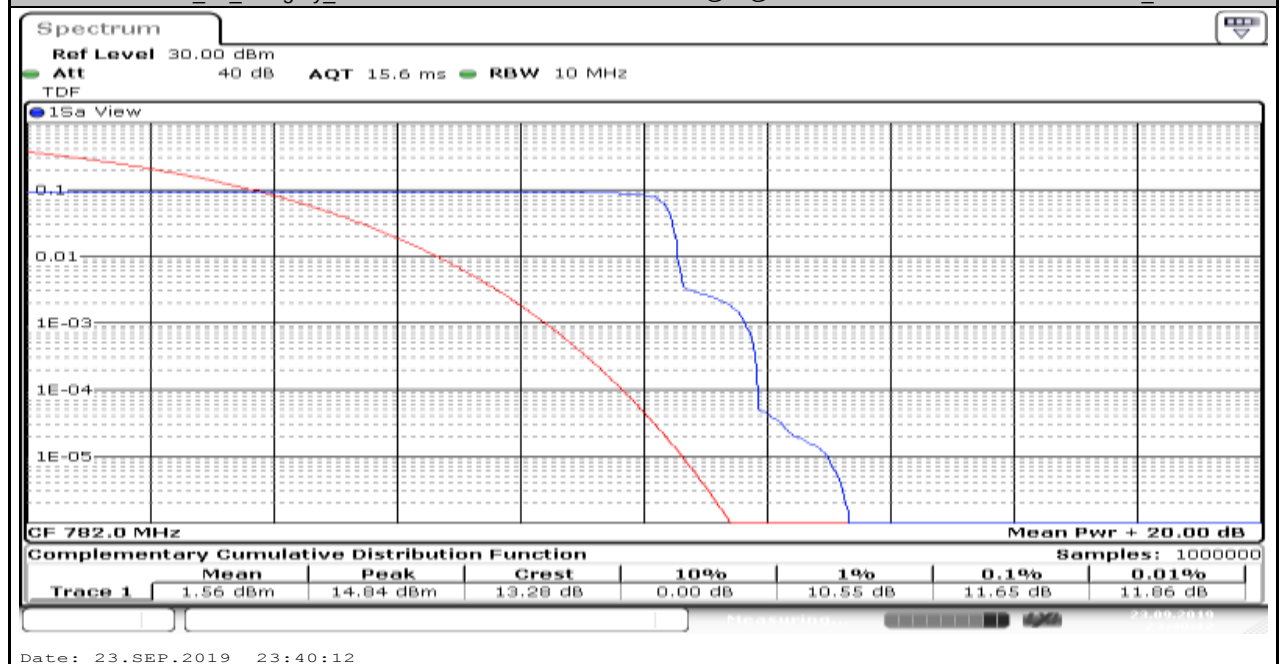
Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_1.62_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\CCDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@0@3.75kHz-QPSK-NTNV-201992584324.Gif_



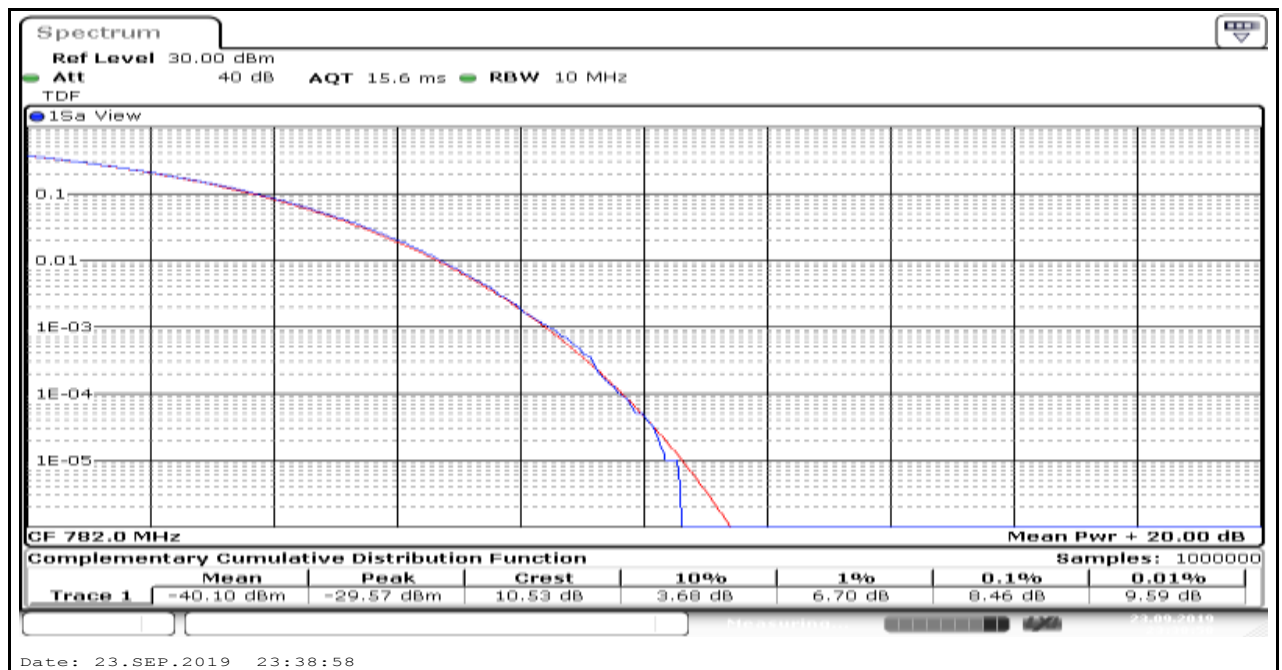
Band13_Stand-Alone_NaN_BPSK_23230_3@3_15kHz_9.77_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\CDF_for_category_NB-Band13-Stand-Alone-NaN-23230-3@3@15kHz-BPSK-NTNV-2019923223319.Gif_



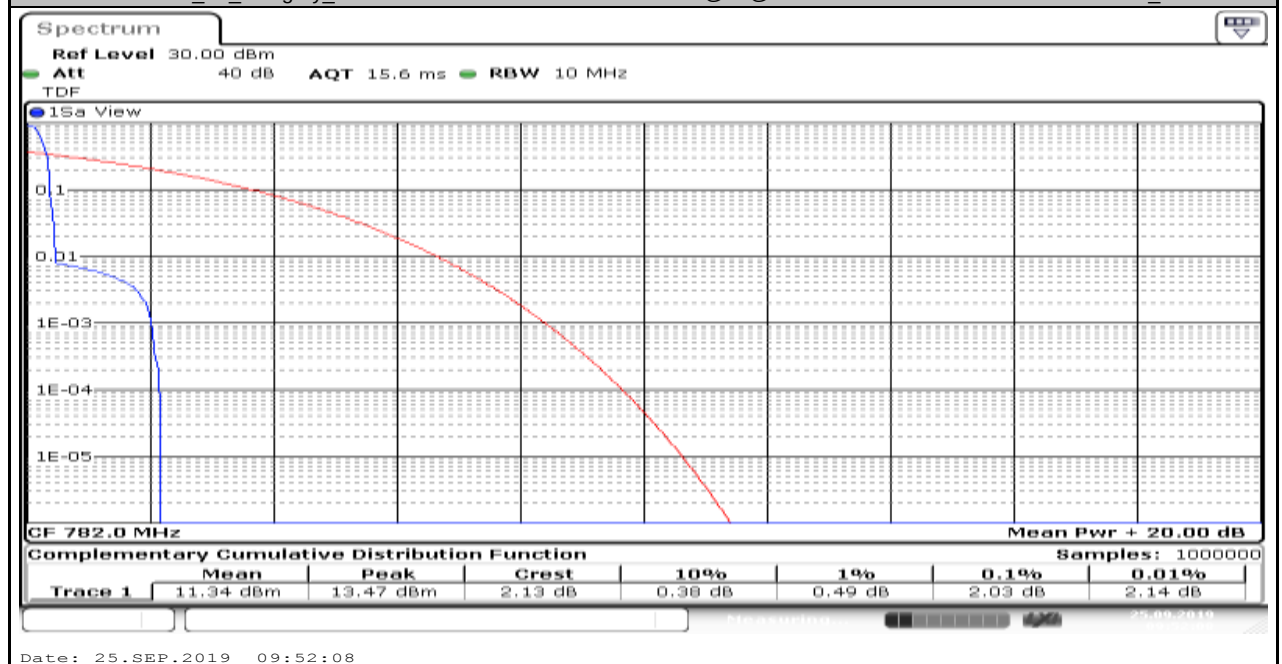
Band13_Stand-Alone_NaN_BPSK_23230_1@11_15kHz_11.65_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\
CCDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@11@15kHz-BPSK-NTNV-201992322325.Gif_



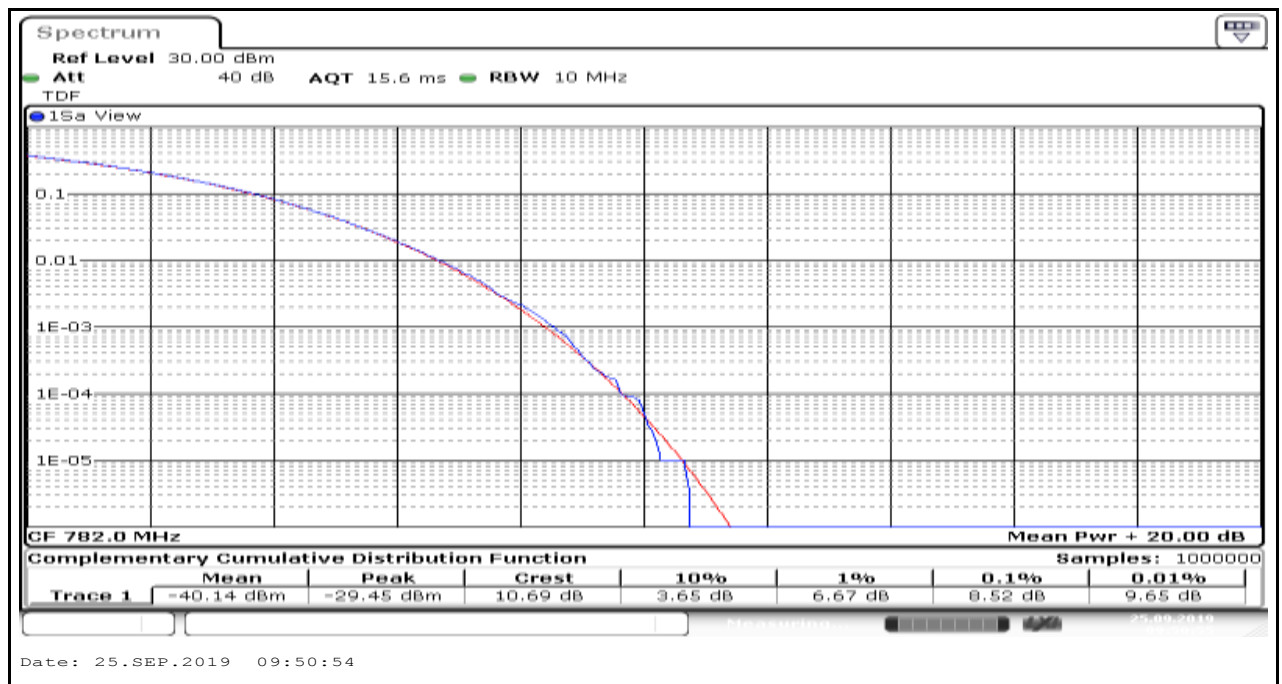
Band13_Stand-Alone_NaN_BPSK_23230_1@0_15kHz_8.46_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\
CDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@0@15kHz-BPSK-NTNV-2019923223052.Gif_



Band13_Stand-Alone_NaN_BPSK_23230_1@47_3.75kHz_2.03 <=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13
\CCDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@47@3.75kHz-BPSK-NTNV-20199258441.Gif_



Band13_Stand-Alone_NaN_BPSK_23230_1@0_3.75kHz_8.52 <=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\
\CCDF_for_category_NB-Band13-Stand-Alone-NaN-23230-1@0@3.75kHz-BPSK-NTNV-201992584247.Gif_

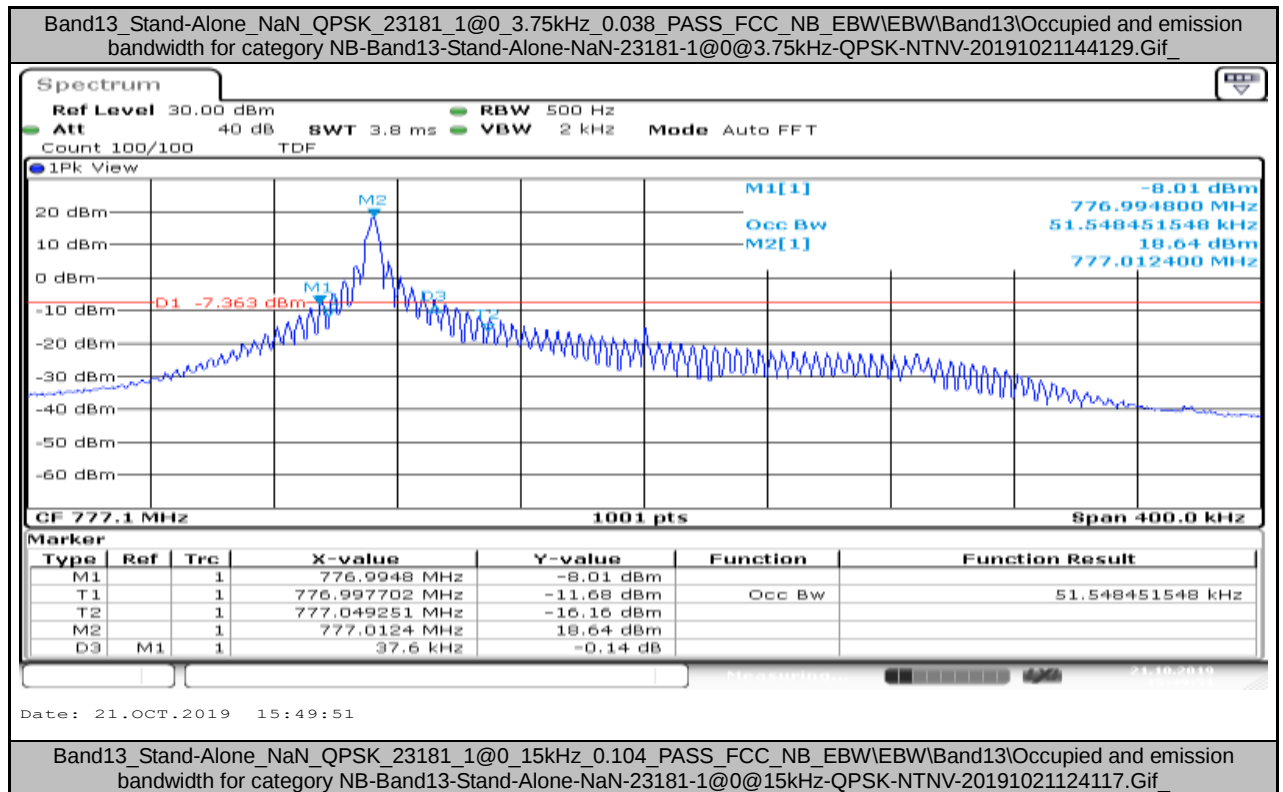


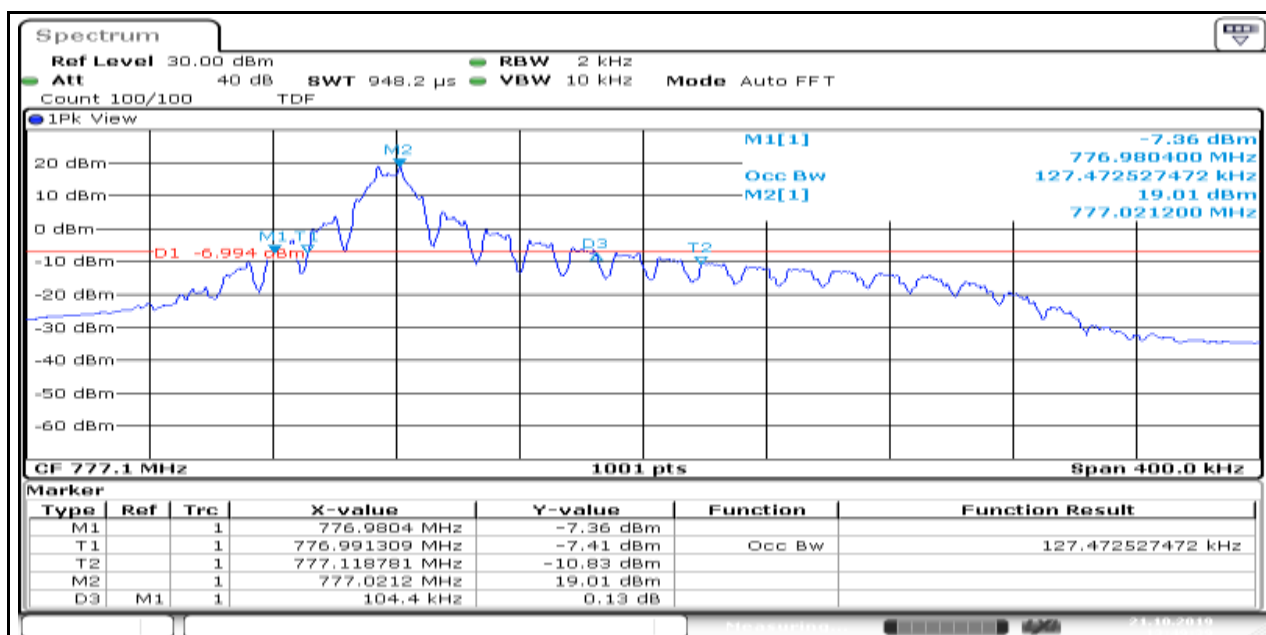
Appendix E.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

Test Result

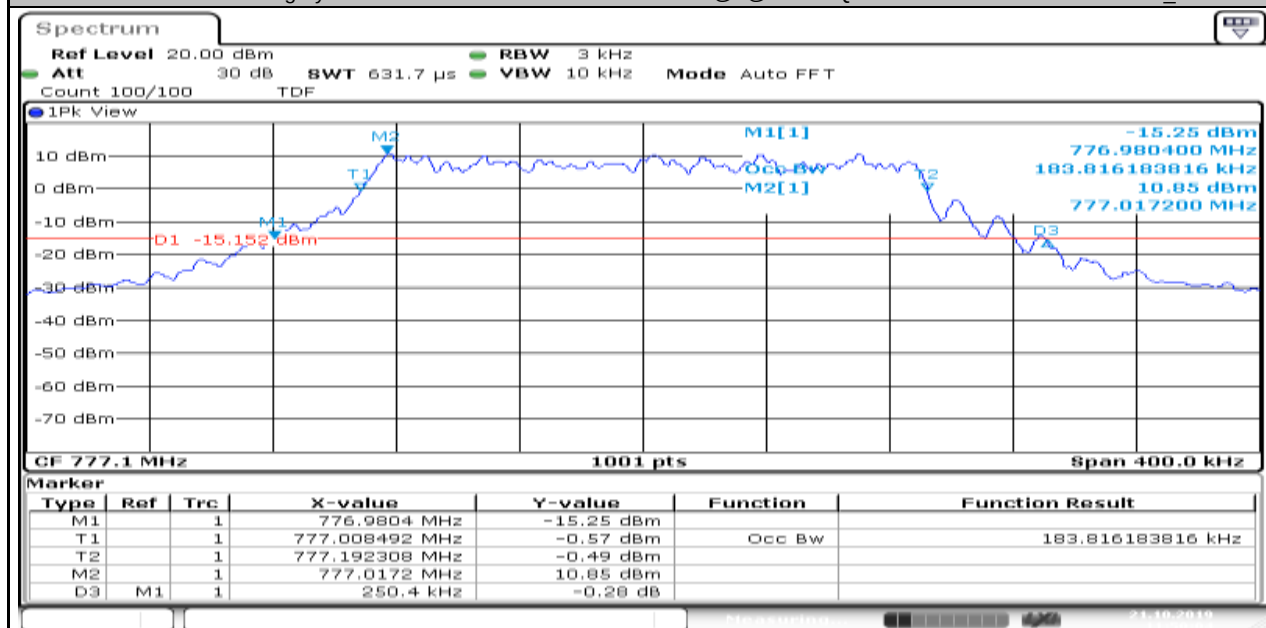
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	0.038	0.052	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	15kHz	0.104	0.127	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	0.250	0.184	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	0.038	0.053	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	0.104	0.124	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	0.250	0.184	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	0.034	0.052	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	15kHz	0.104	0.125	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	0.250	0.184	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	3.75kHz	0.032	0.053	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	0.104	0.126	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	3.75kHz	0.032	0.054	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	0.104	0.125	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	3.75kHz	0.032	0.054	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	0.106	0.126	PASS

Test Graphs

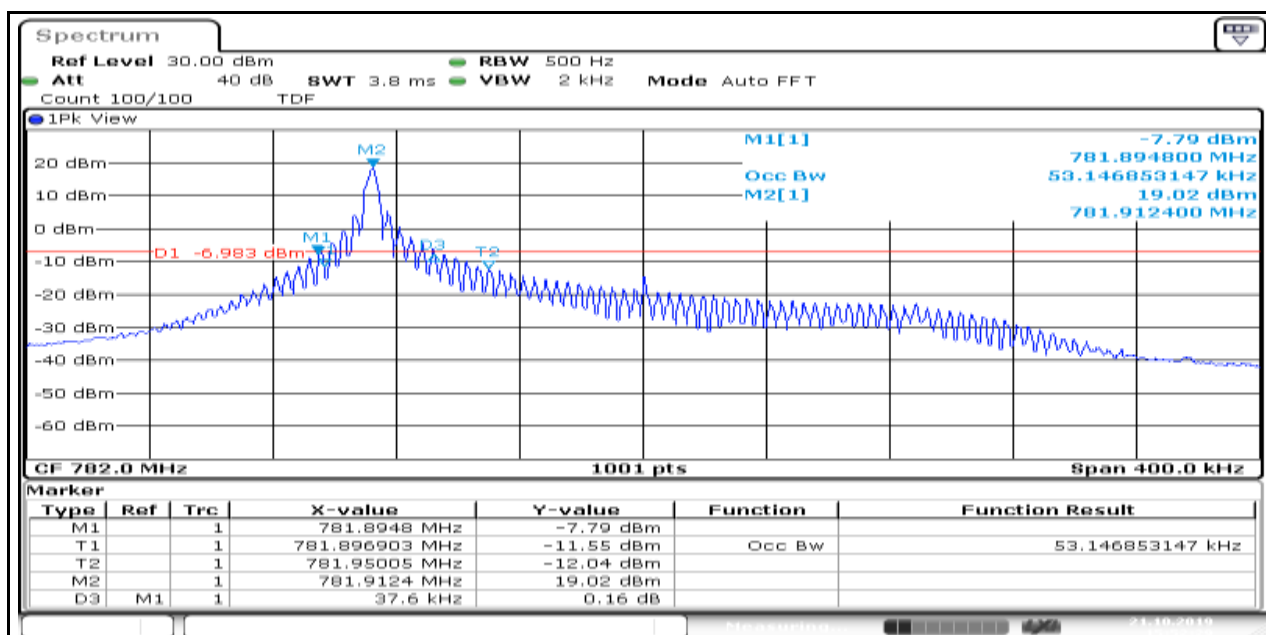




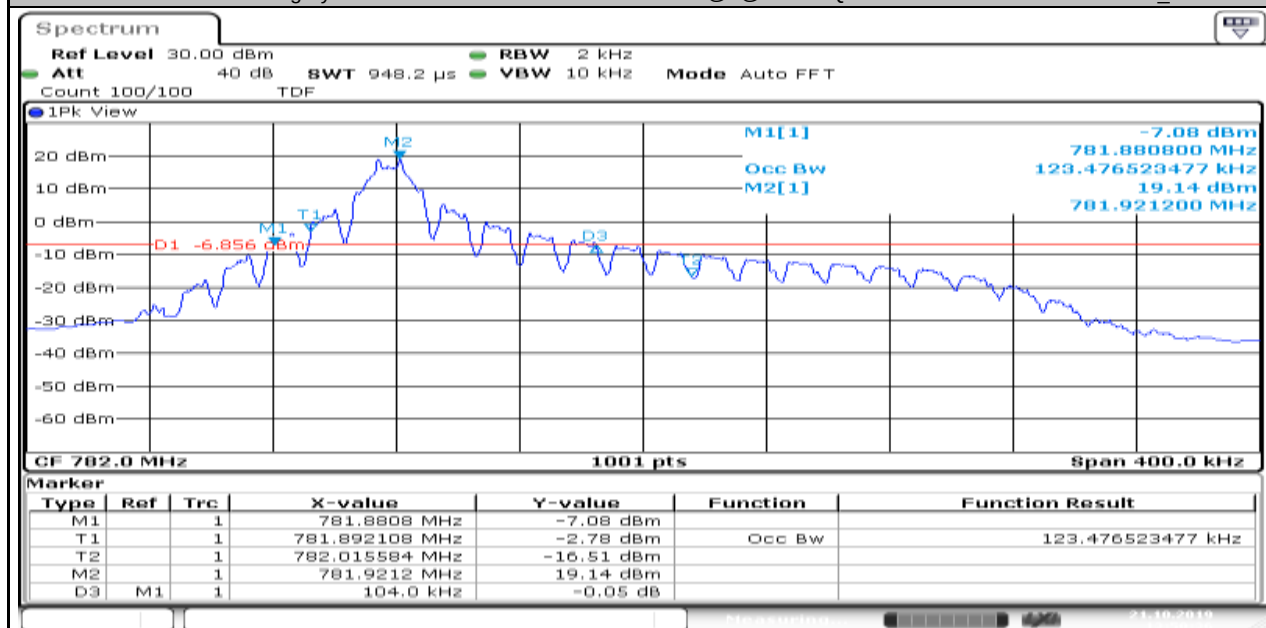
Band13_Stand-Alone_NaN_QPSK_23181_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23181-12@0@15kHz-QPSK-NTNV-20191021104142.Gif_



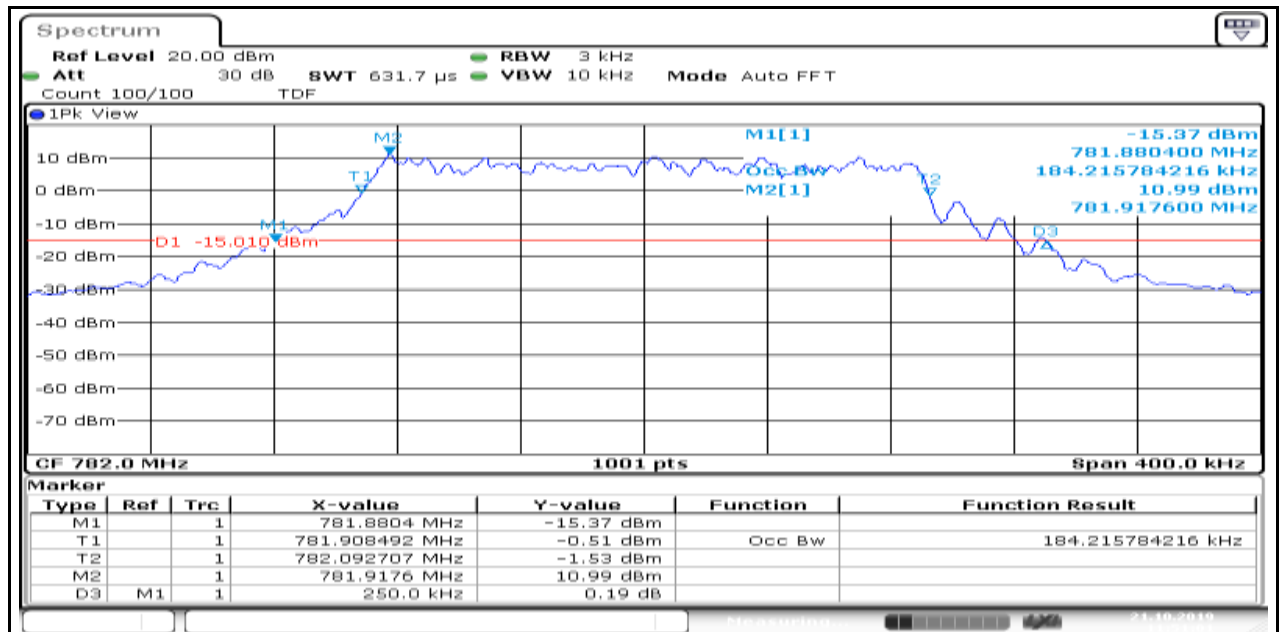
Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_0.038_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23230-1@0@3.75kHz-QPSK-NTNV-2019102114447.Gif_



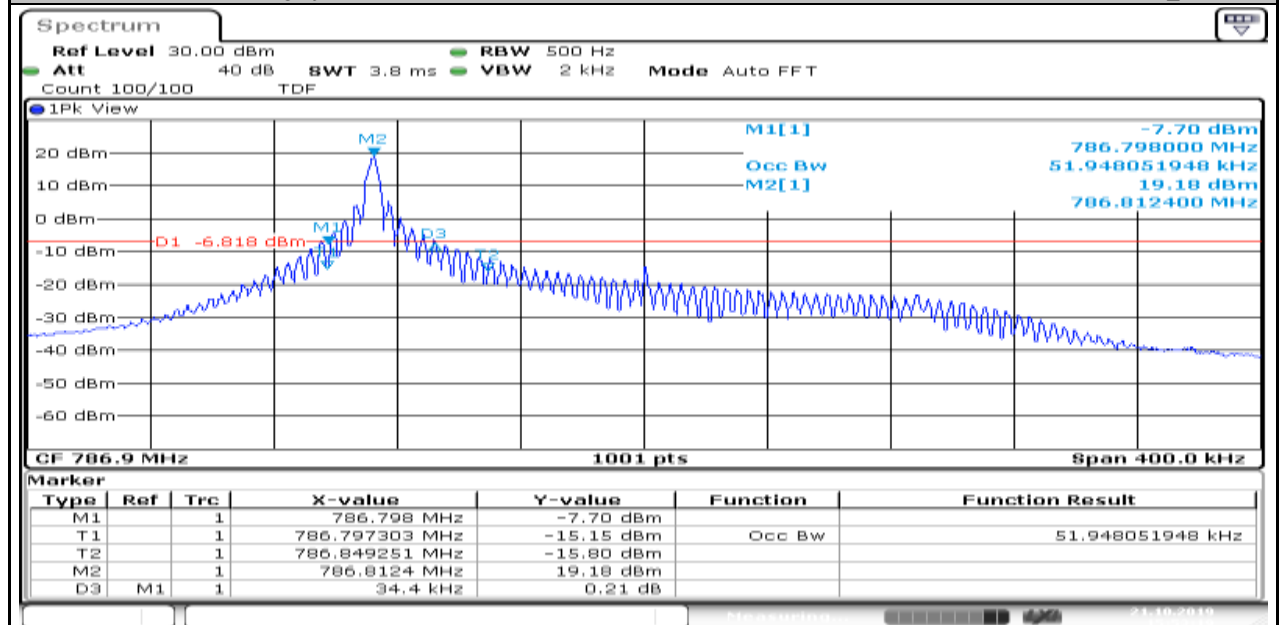
Band13_Stand-Alone_NaN_QPSK_23230_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23230-1@0@15kHz-QPSK-NTNV-20191021124215.Gif_



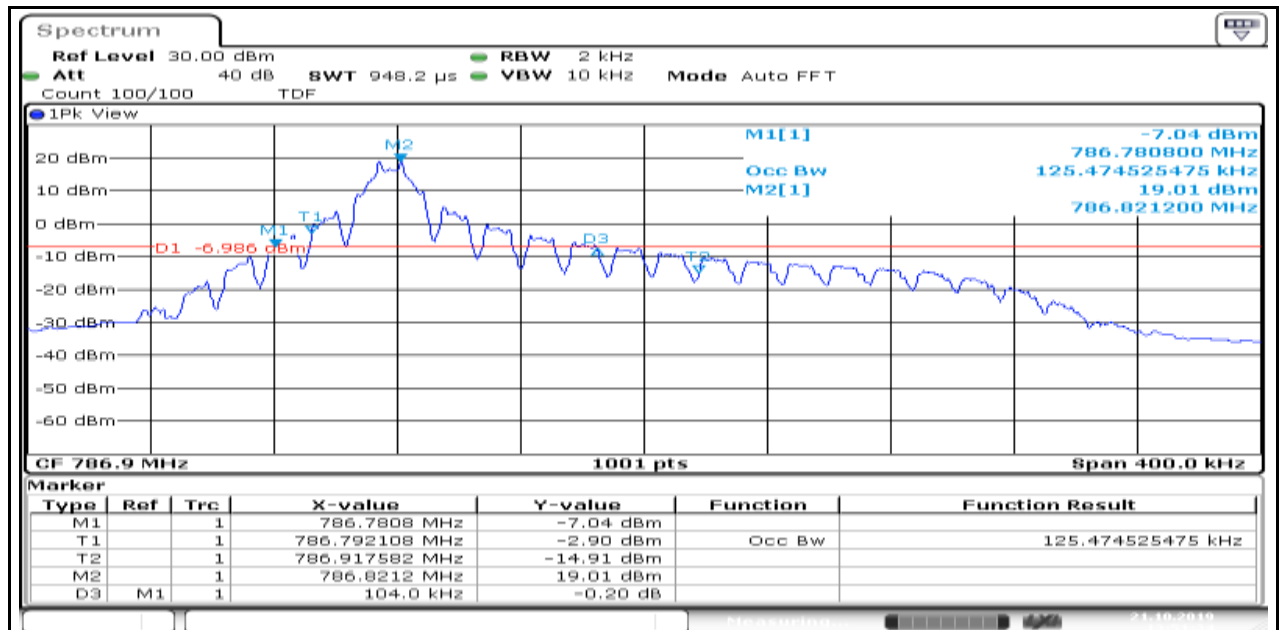
Band13_Stand-Alone_NaN_QPSK_23230_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23230-12@0@15kHz-QPSK-NTNV-20191021104240.Gif_



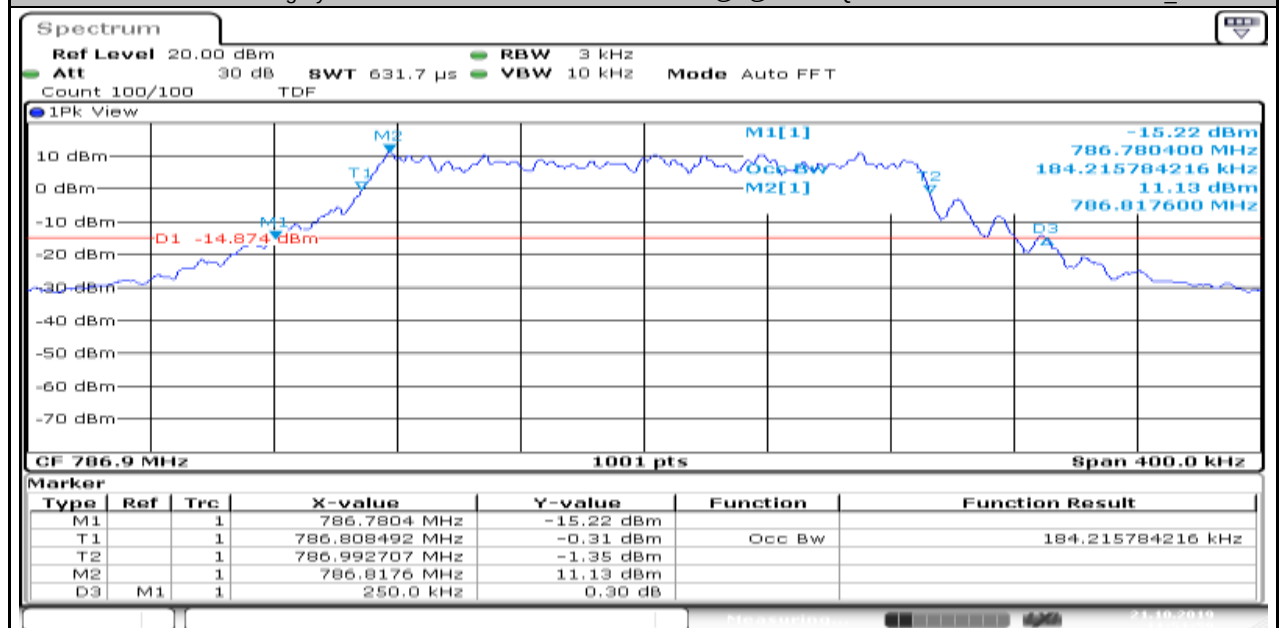
Band13_Stand-Alone_NaN_QPSK_23279_1@0_3.75kHz_0.034_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23279-1@0@3.75kHz-QPSK-NTNV-20191021144457.Gif_



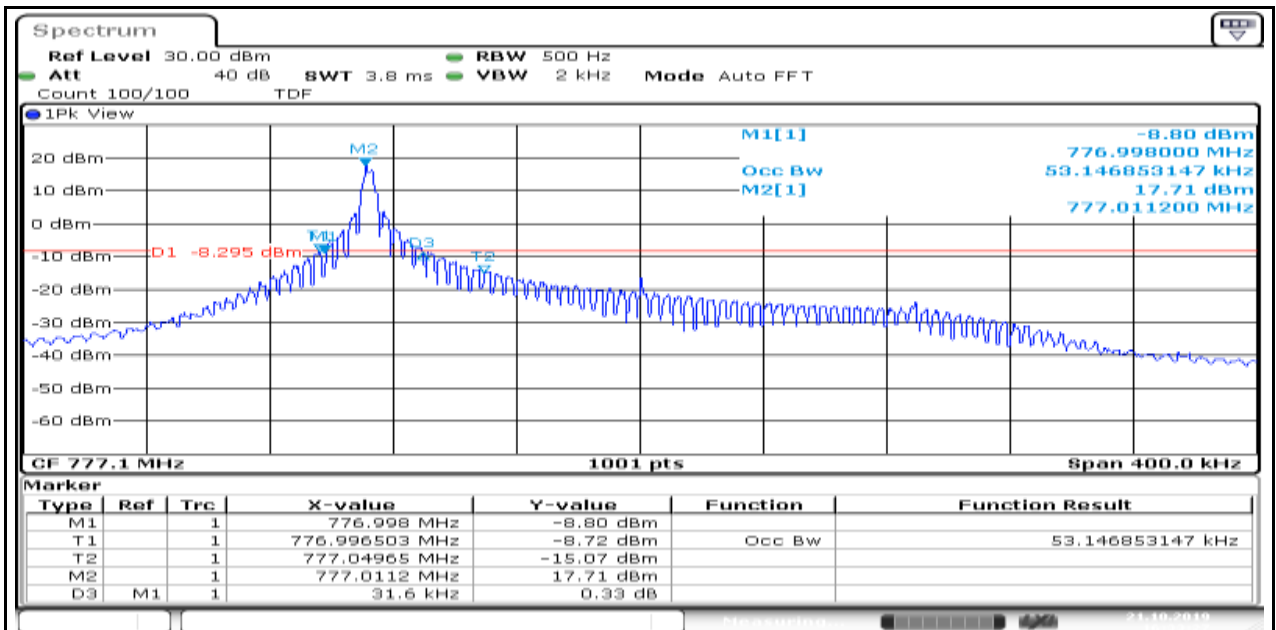
Band13_Stand-Alone_NaN_QPSK_23279_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23279-1@0@15kHz-QPSK-NTNV-20191021124312.Gif_



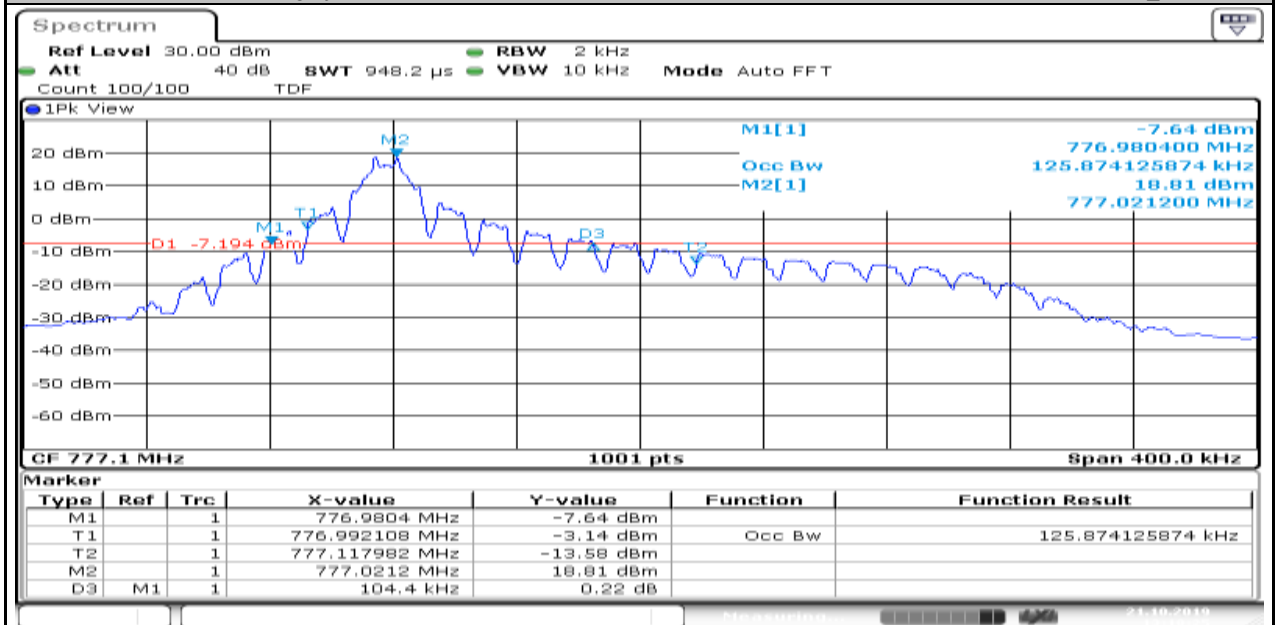
Band13_Stand-Alone_NaN_QPSK_23279_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23279-12@0@15kHz-QPSK-NTNV-20191021104337.Gif_



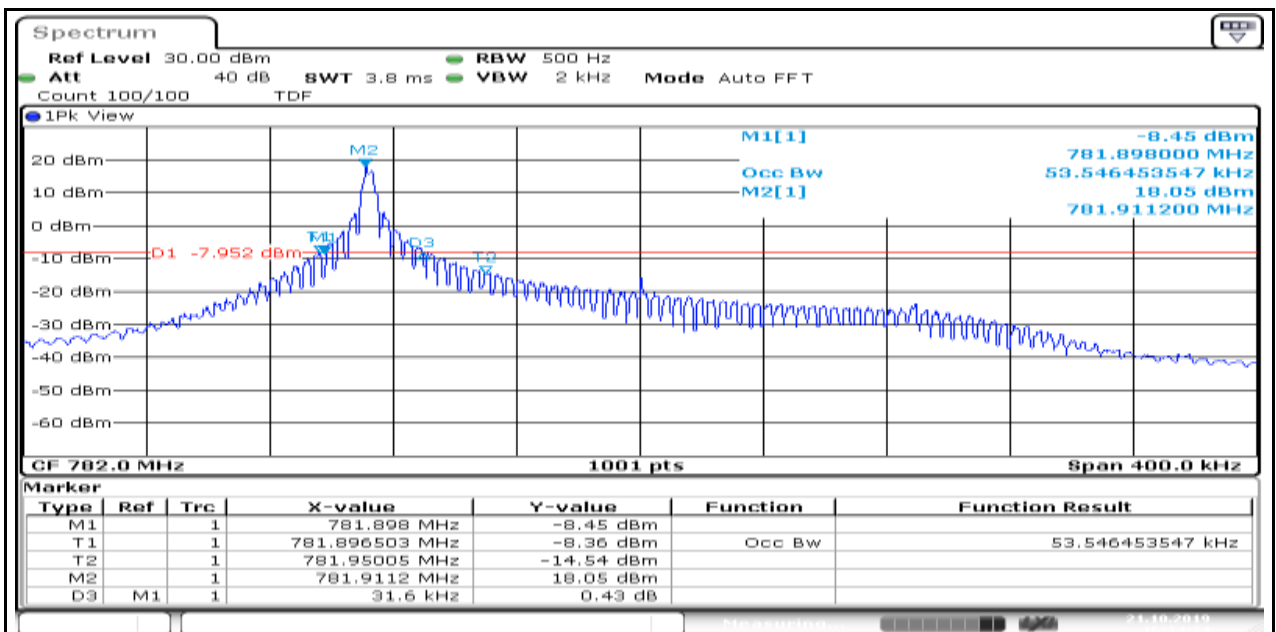
Band13_Stand-Alone_NaN_BPSK_23181_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23181-1@0@3.75kHz-BPSK-NTNV-2019102115255.Gif_



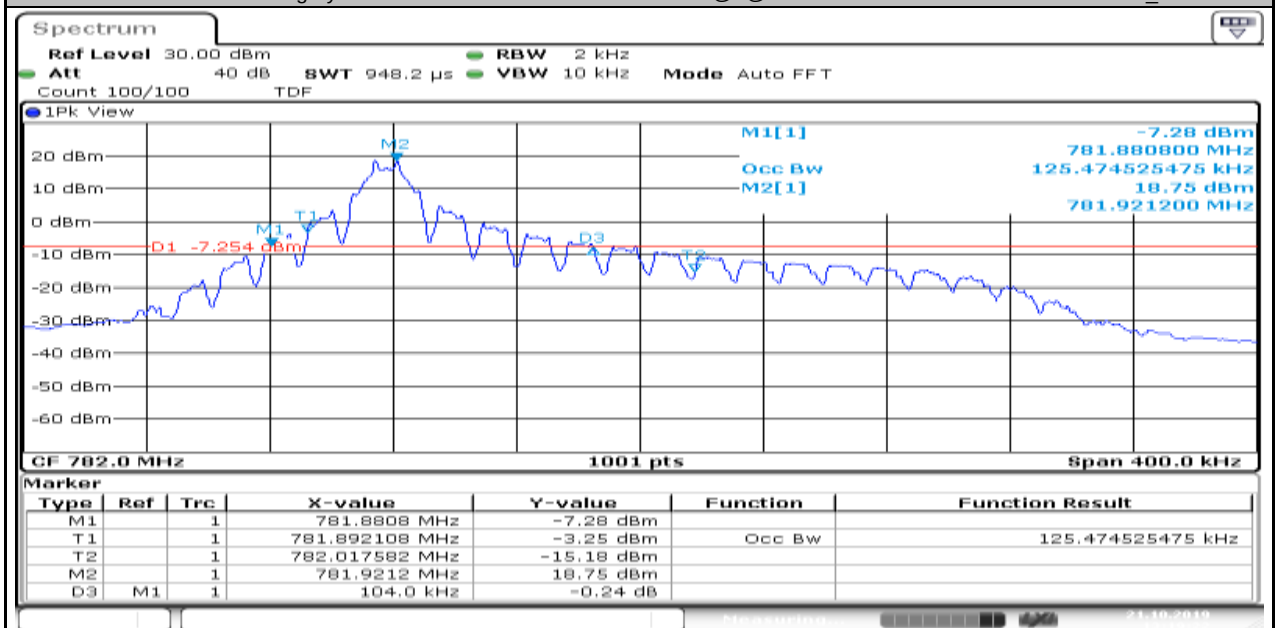
Band13_Stand-Alone_NaN_BPSK_23181_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23181-1@0@15kHz-BPSK-NTNV-2019102112104.Gif_



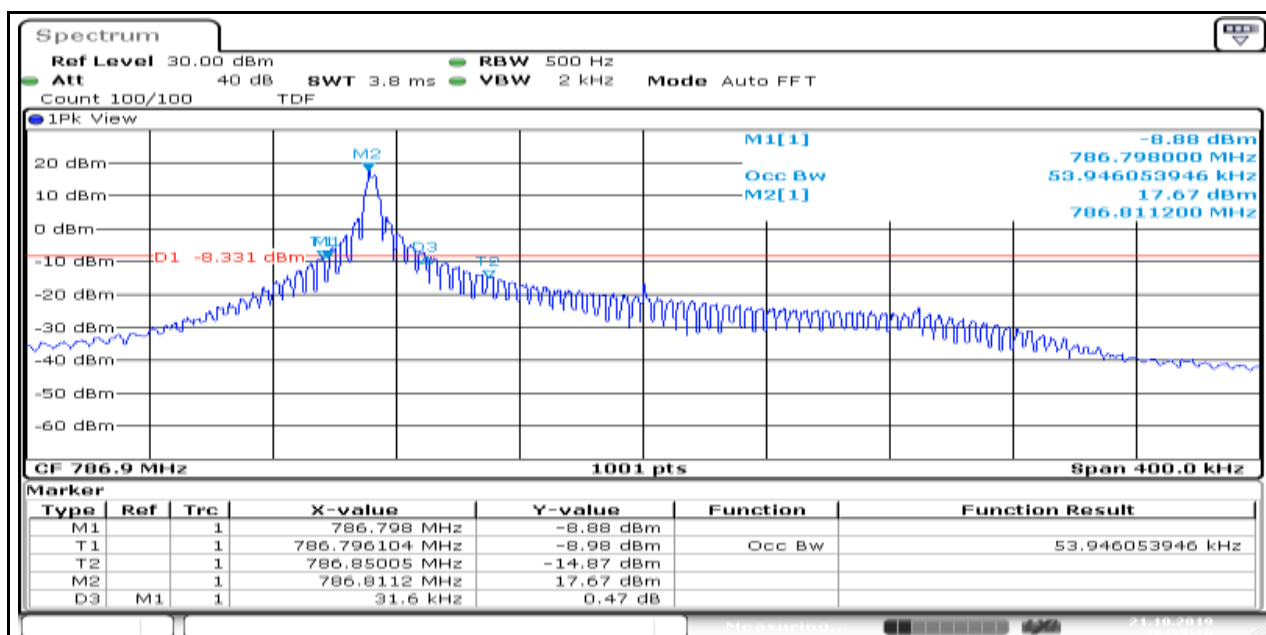
Band13_Stand-Alone_NaN_BPSK_23230_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23230-1@0@3.75kHz-BPSK-NTNV-2019102115262.Gif_



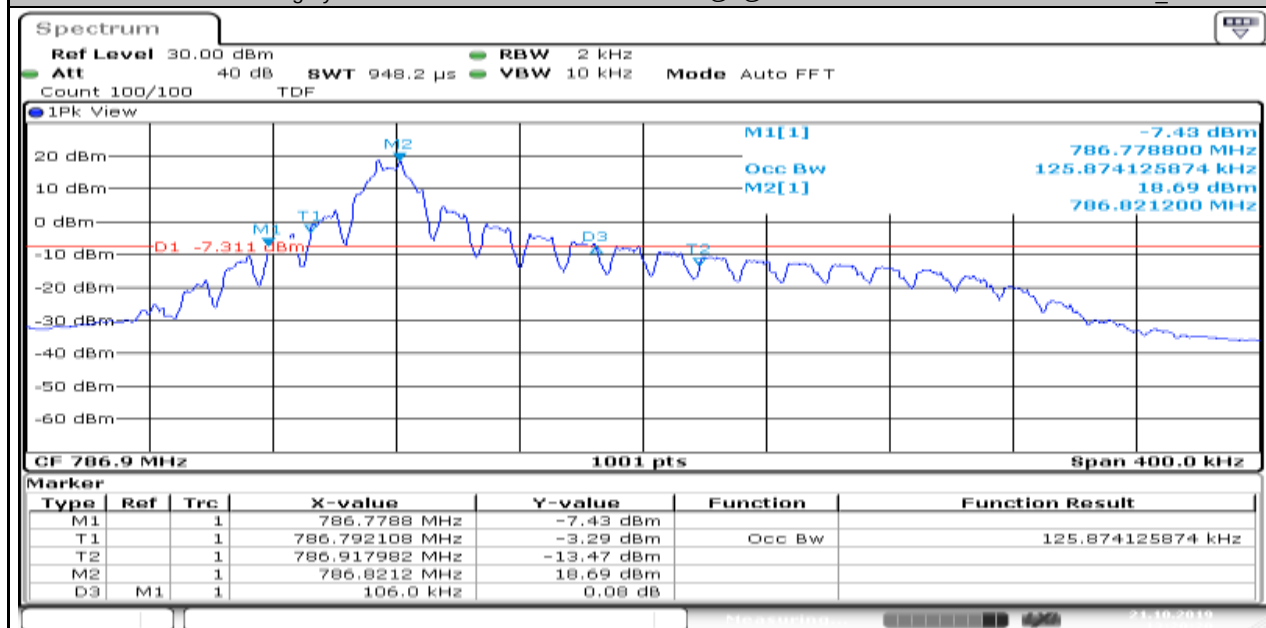
Band13_Stand-Alone_NaN_BPSK_23230_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23230-1@0@15kHz-BPSK-NTNV-2019102112111.Gif_



Band13_Stand-Alone_NaN_BPSK_23279_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23279-1@0@3.75kHz-BPSK-NTNV-20191021152658.Gif_



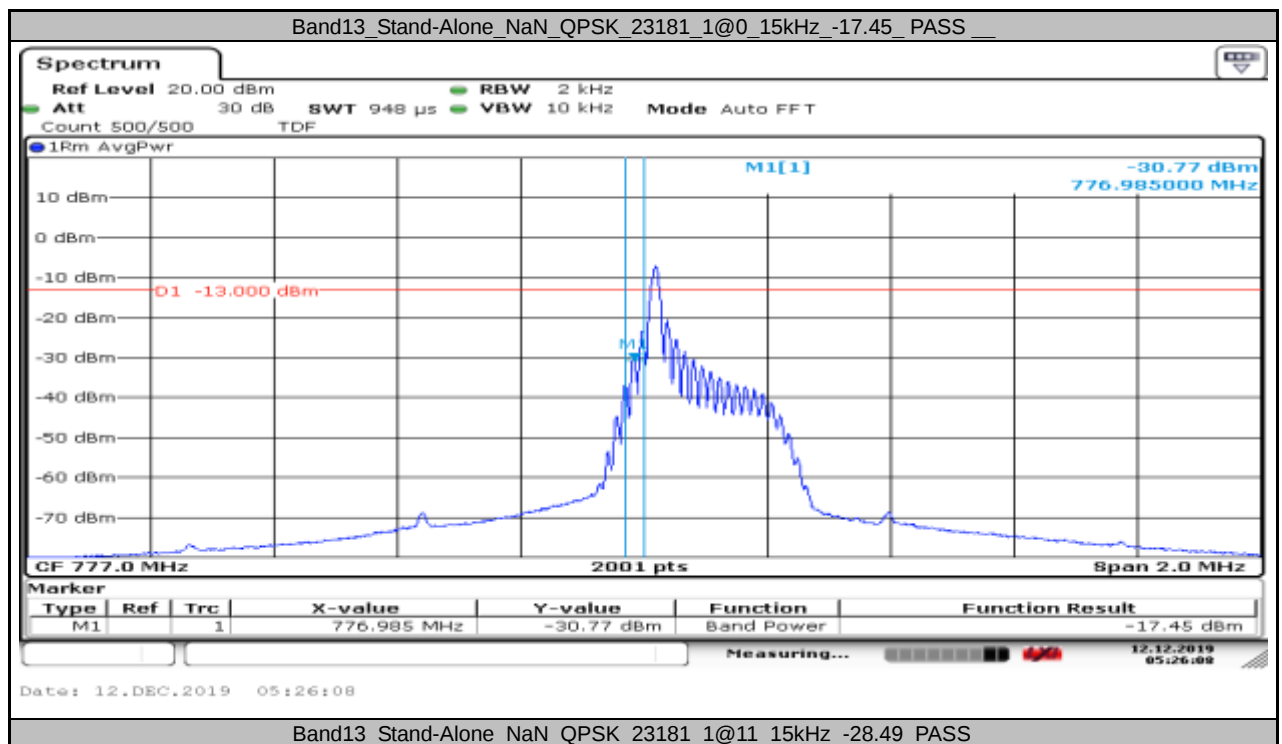
Band13_Stand-Alone_NaN_BPSK_23279_1@0_15kHz_0.106_PASS_FCC_NB_EBW\EBW\Band13\Occupied and emission bandwidth for category NB-Band13-Stand-Alone-NaN-23279-1@0@15kHz-BPSK-NTNV-20191021121158.Gif

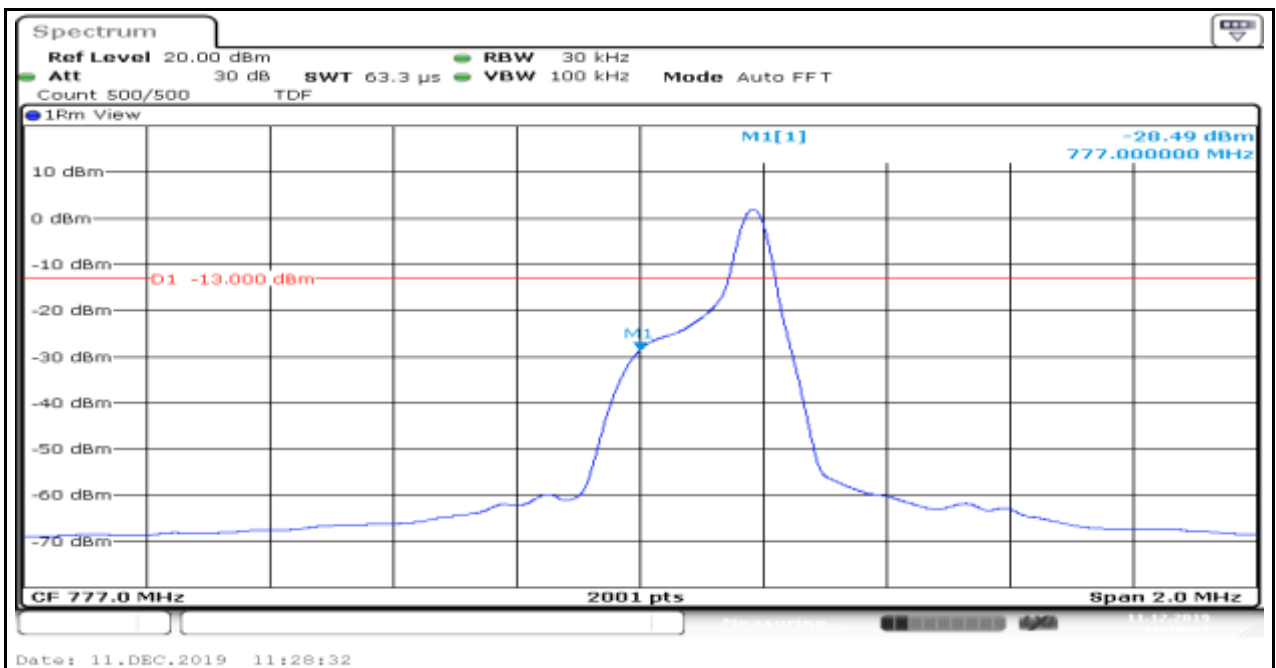


Appendix E.4: Band Edge for NB Test Result

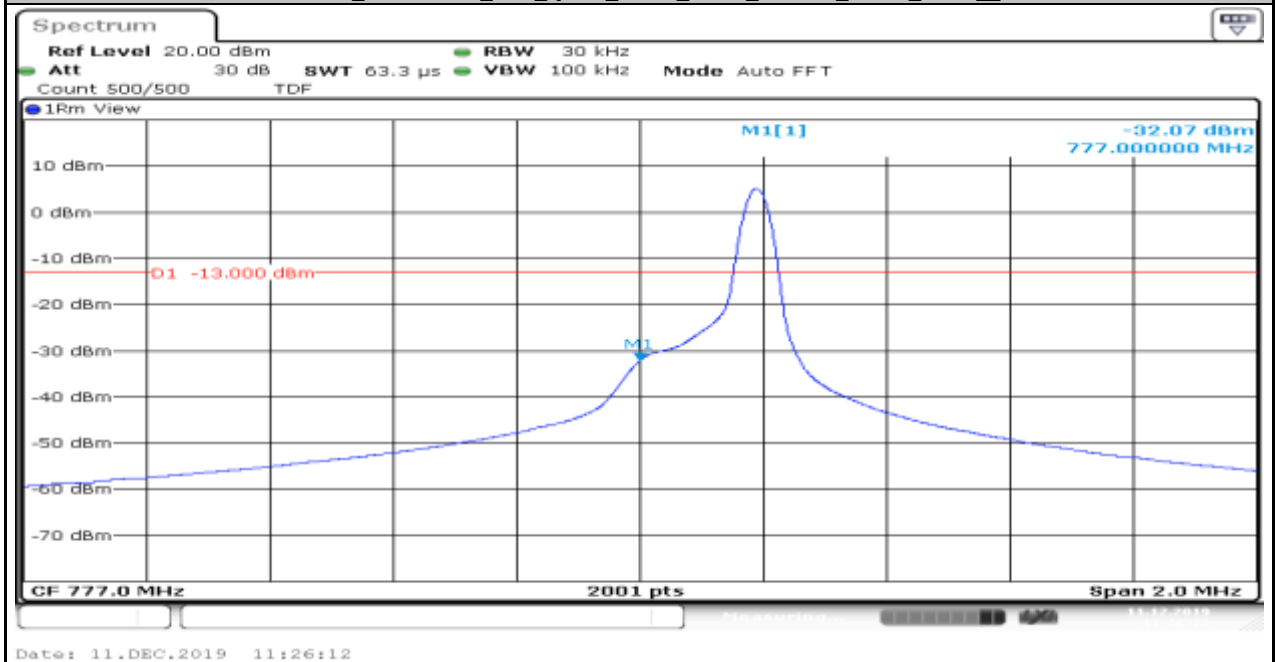
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23181	1@0	15kHz	-17.45	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@11	15kHz	-28.49	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	-32.07	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	-16.53	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	-20.48	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	-30.55	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	-20.35	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@11	15kHz	-16.86	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	-16.15	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	15kHz	-28.17	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	-15.52	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	-26.73	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@47	3.75kHz	-29.78	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	3.75kHz	-15.30	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	-15.26	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	-25.05	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@47	3.75kHz	-14.98	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	3.75kHz	-30.80	PASS

Test Graphs

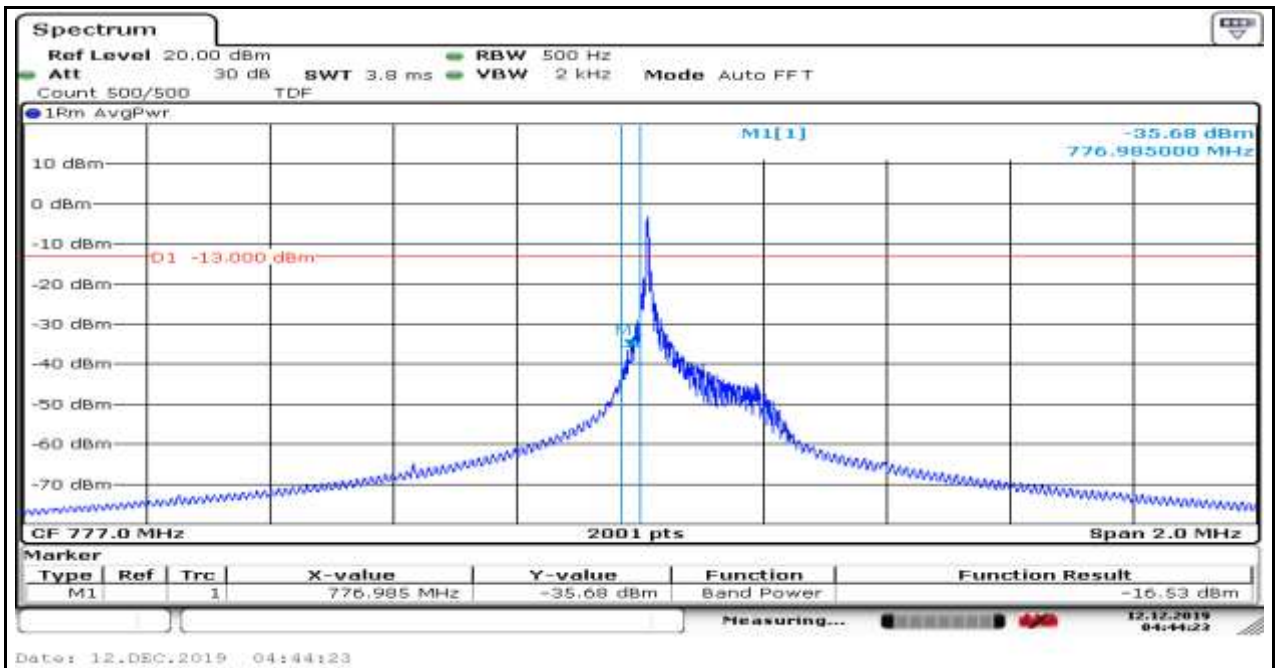




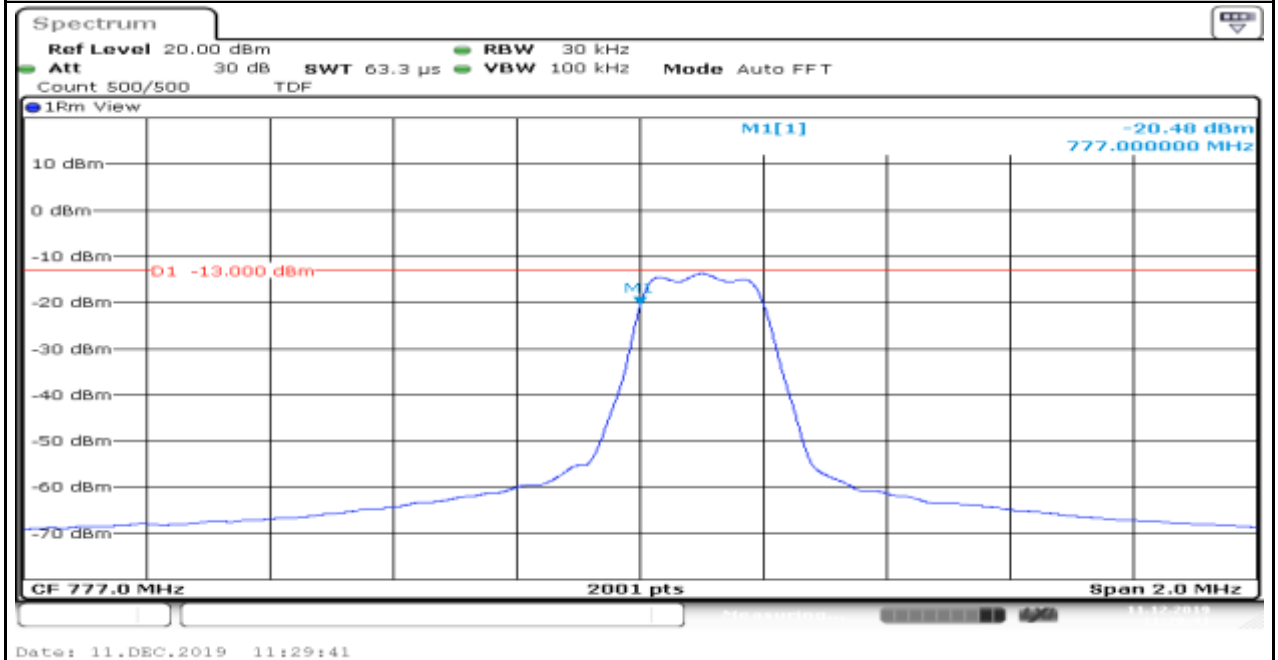
Band13_Stand-Alone_NaN_QPSK_23181_1@47_3.75kHz_-32.07_PASS_



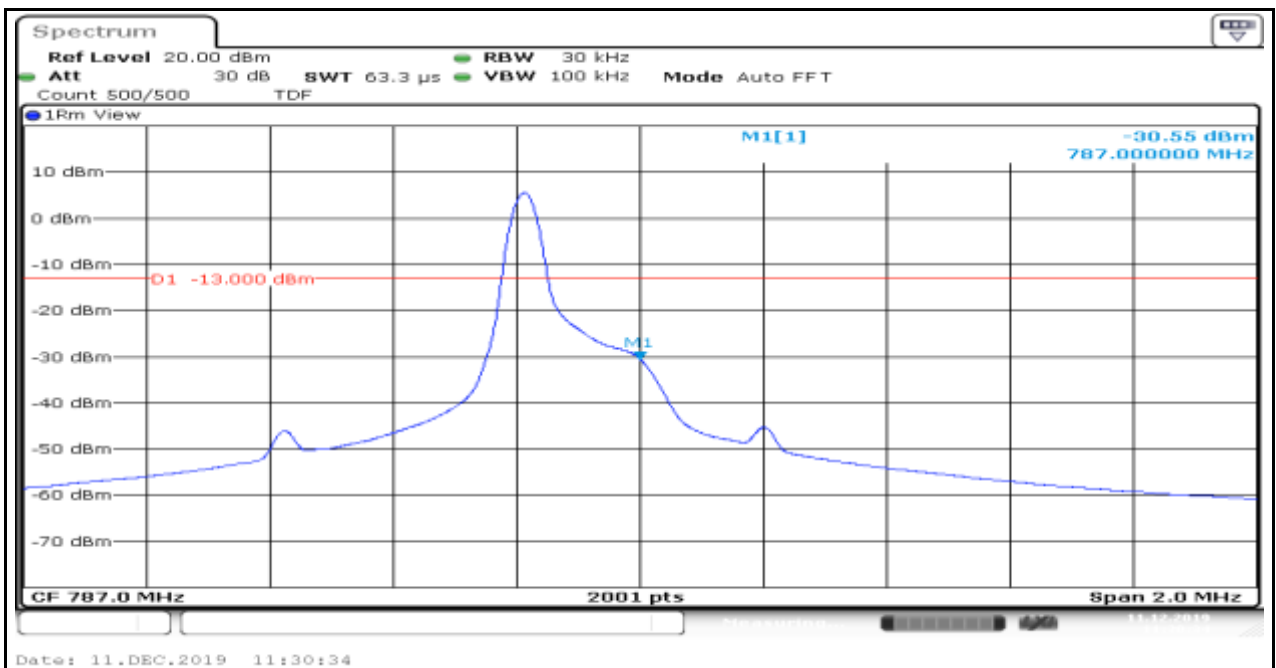
Band13_Stand-Alone_NaN_QPSK_23181_1@0_3.75kHz_-16.53_PASS_



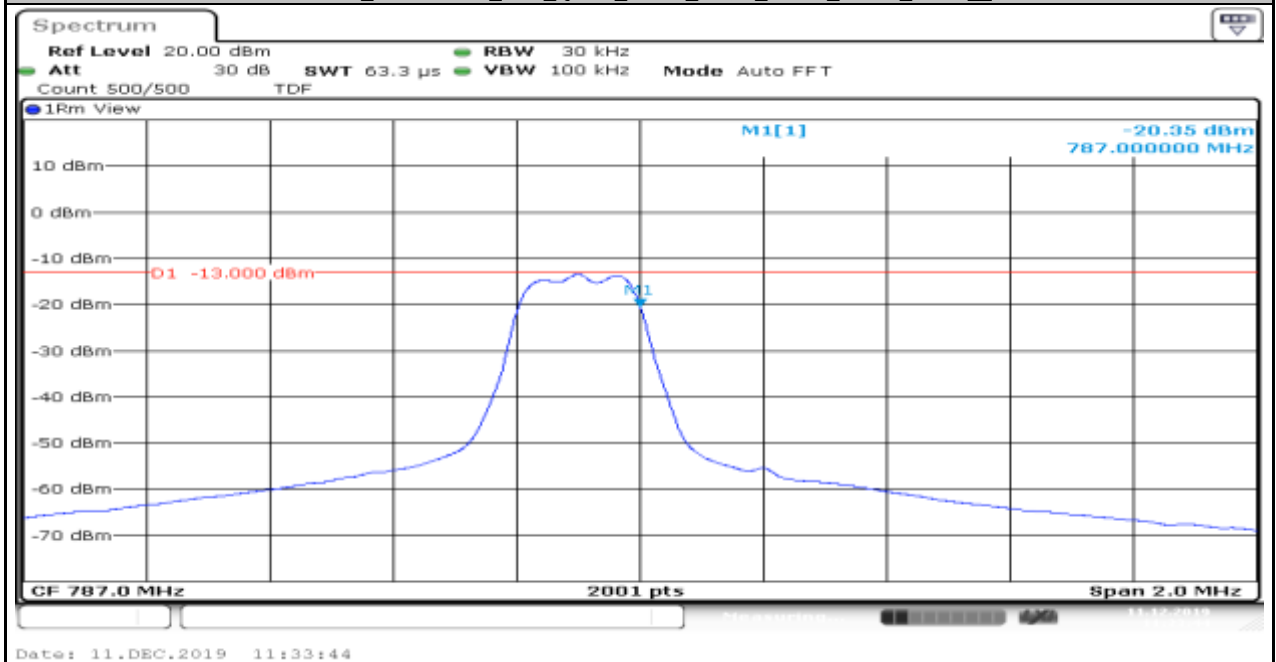
Band13_Stand-Alone_NaN_QPSK_23181_12@0_15kHz_-20.48_PASS_



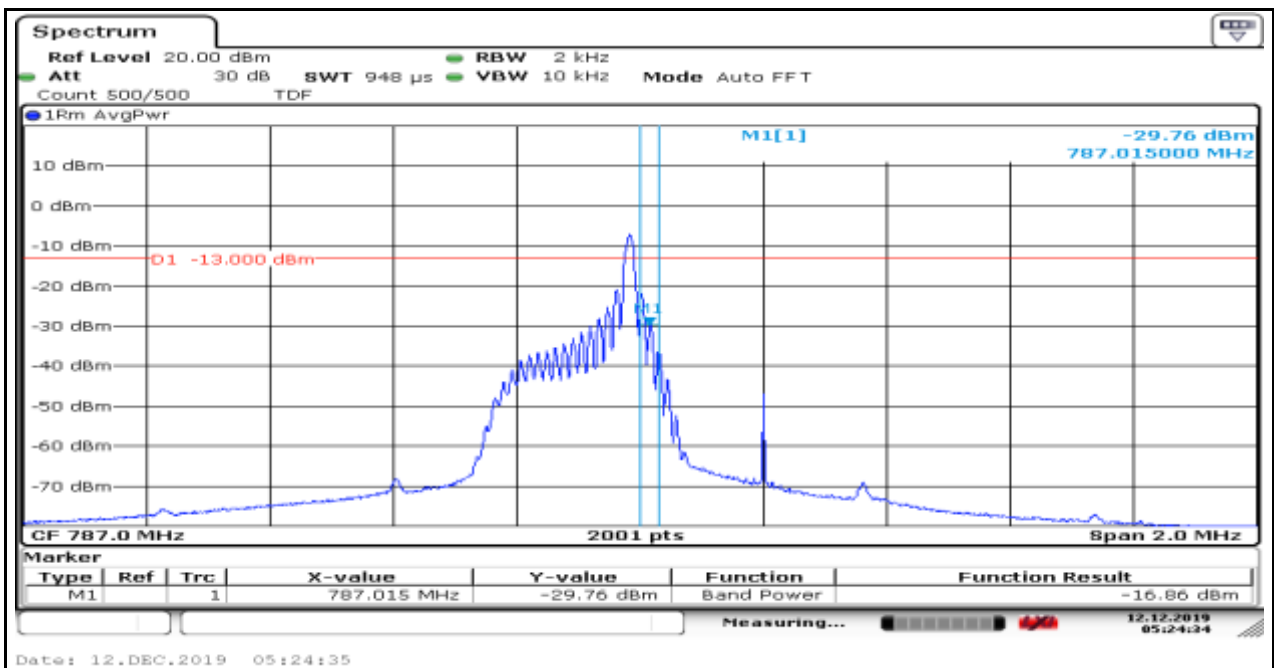
Band13_Stand-Alone_NaN_QPSK_23279_1@0_3.75kHz_-30.55_PASS_



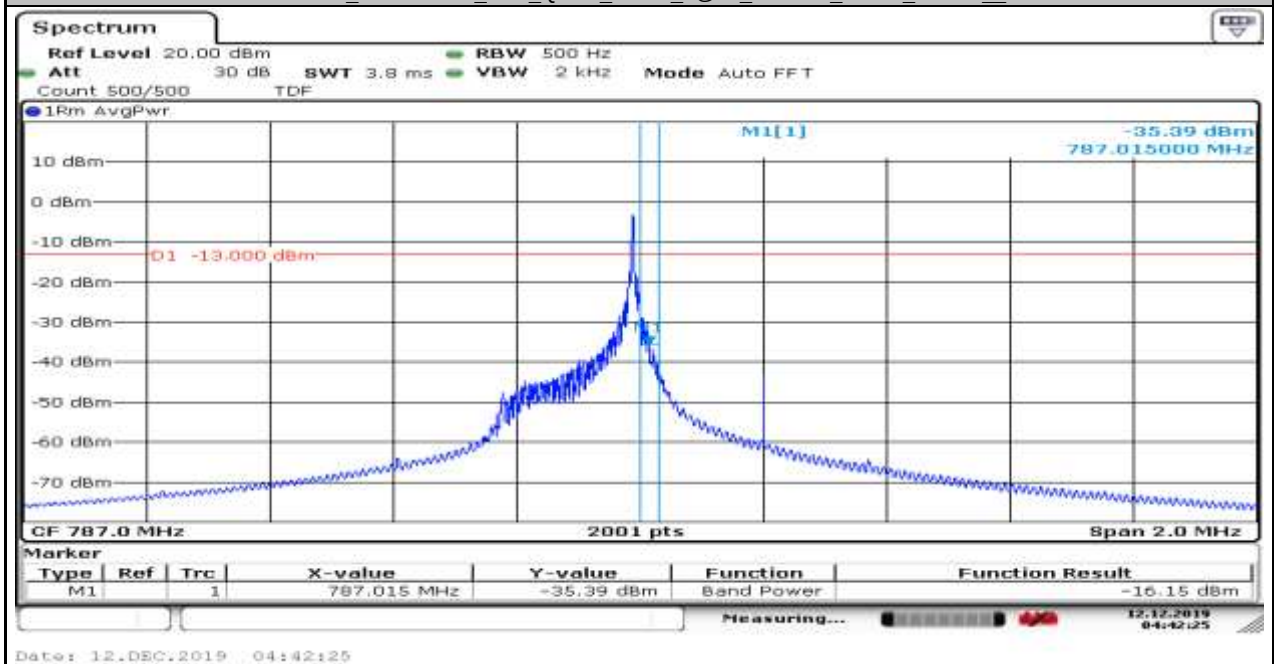
Band13_Stand-Alone_NaN_QPSK_23279_12@0_15kHz_-20.35_PASS_



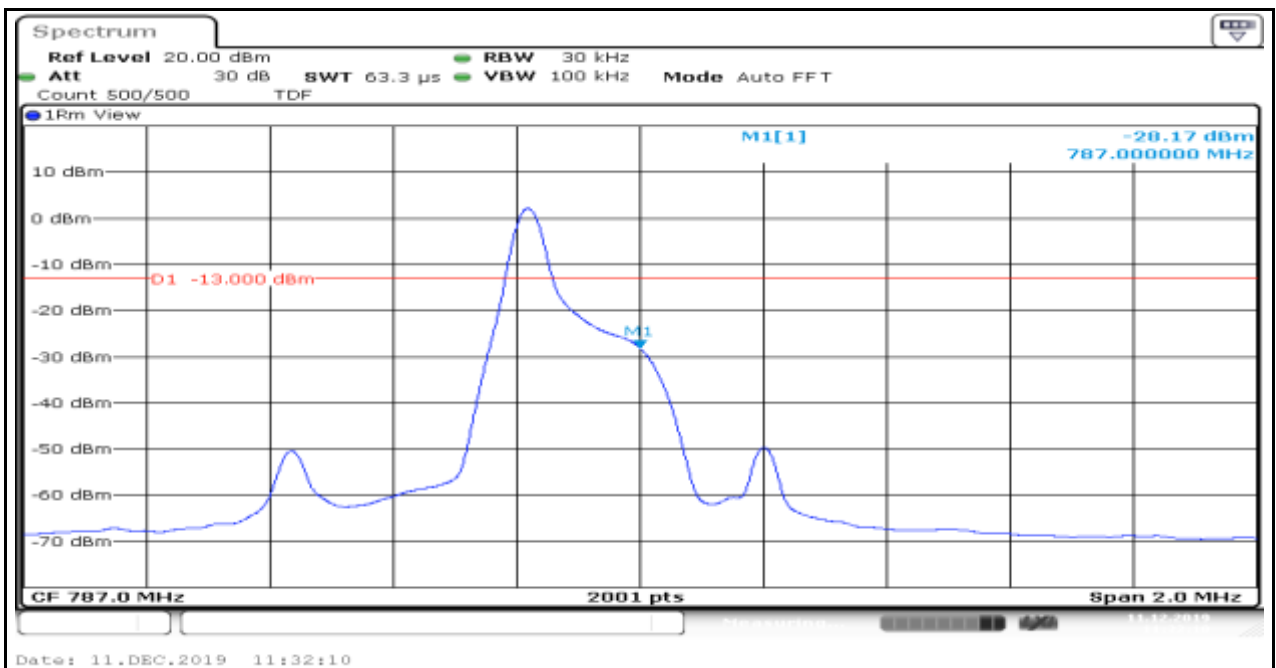
Band13_Stand-Alone_NaN_QPSK_23279_1@11_15kHz_-16.86_PASS_



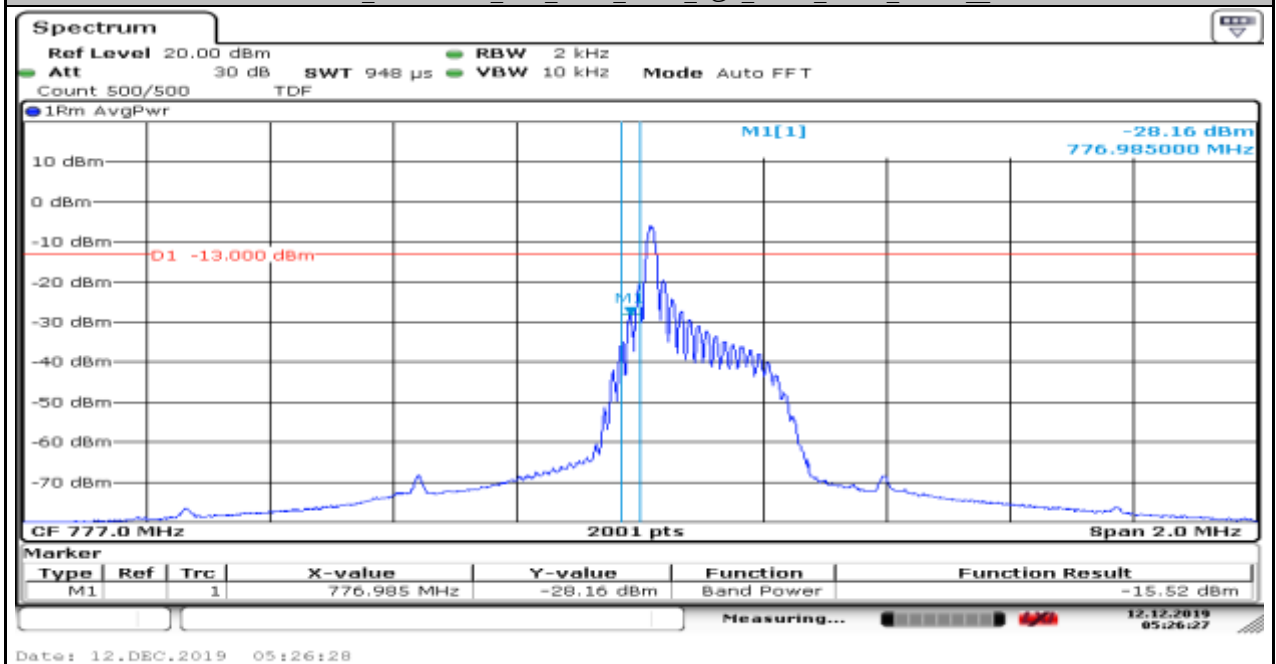
Band13_Stand-Alone_NaN_QPSK_23279_1@47_3.75kHz_-16.15_PASS_



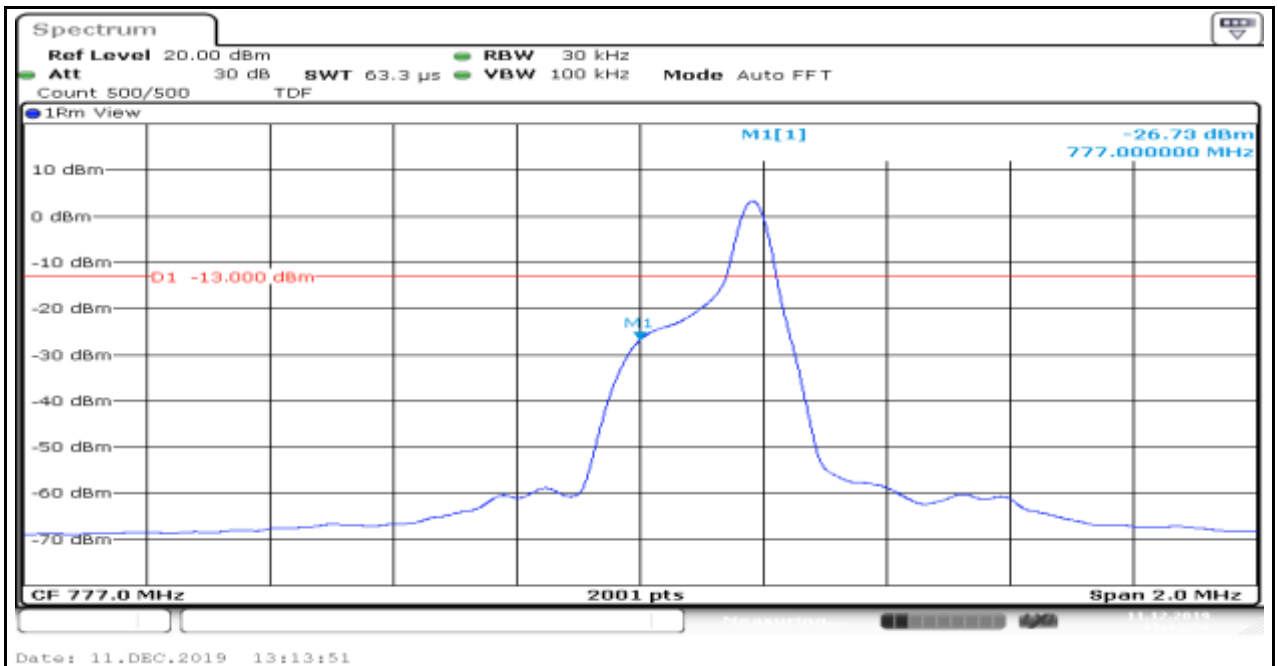
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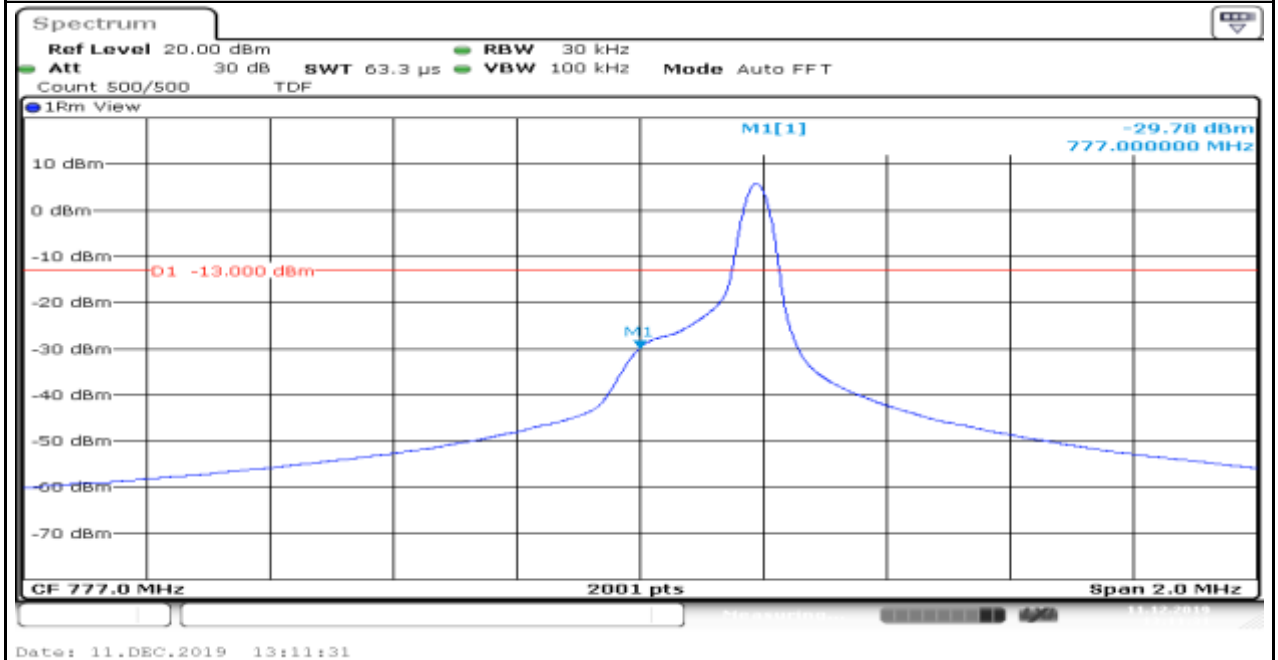
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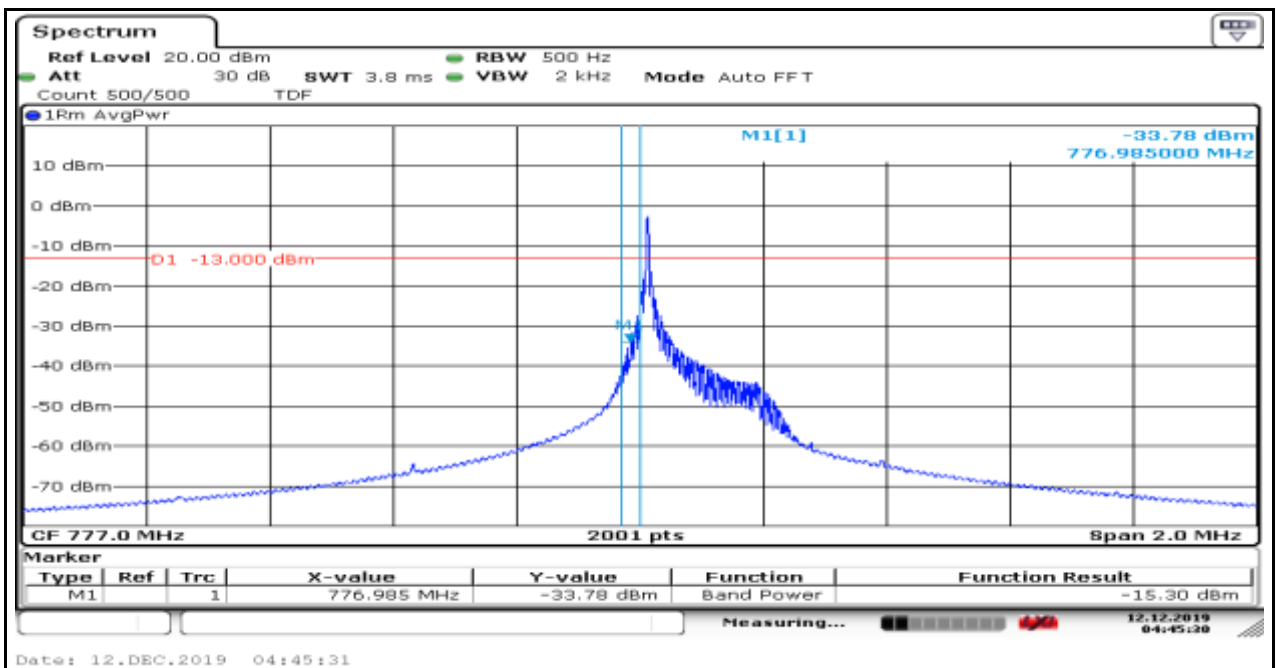
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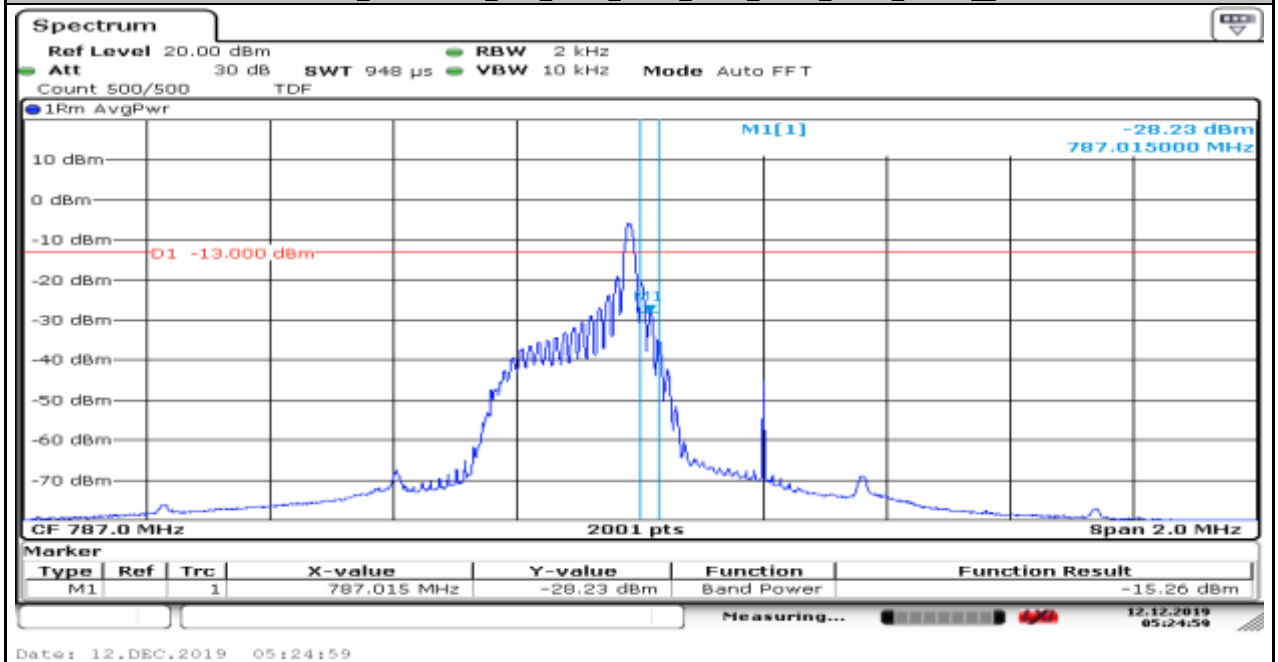
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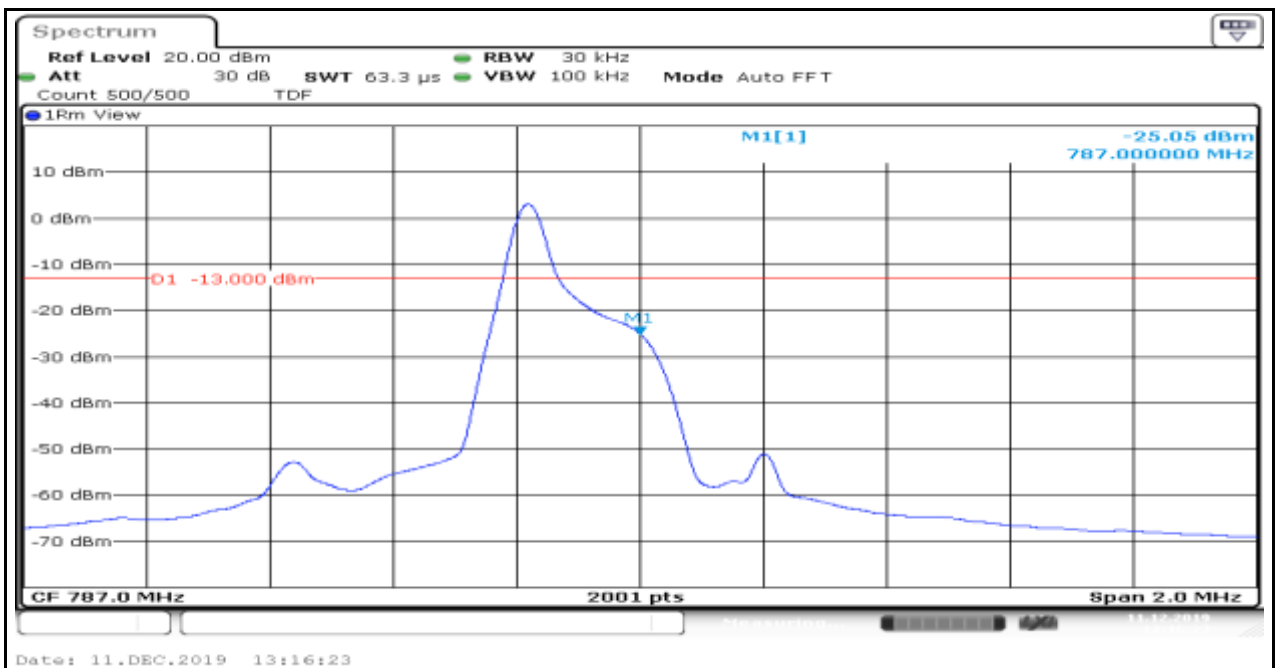
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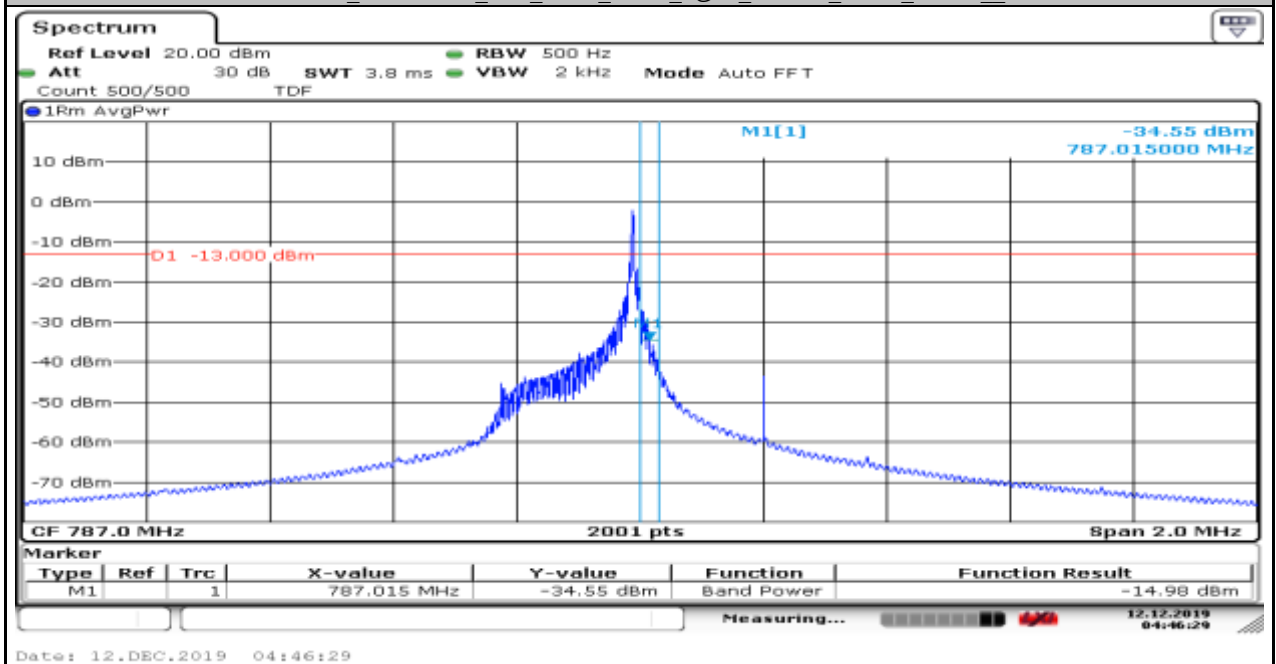
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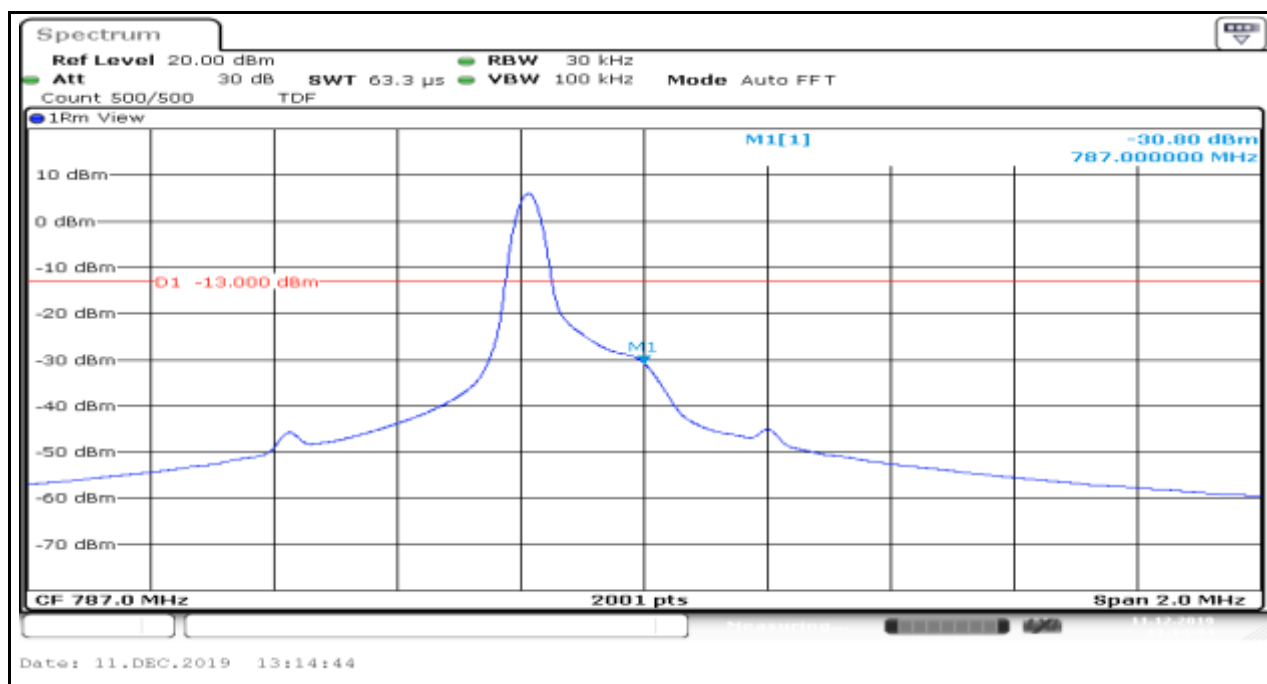
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Band13_Stand-Alone_NaN_BPSK_23279_1@47_3.75kHz_-14.98_PASS_



Band13_Stand-Alone_NaN_BPSK_23279_1@0_3.75kHz_-30.80_PASS_



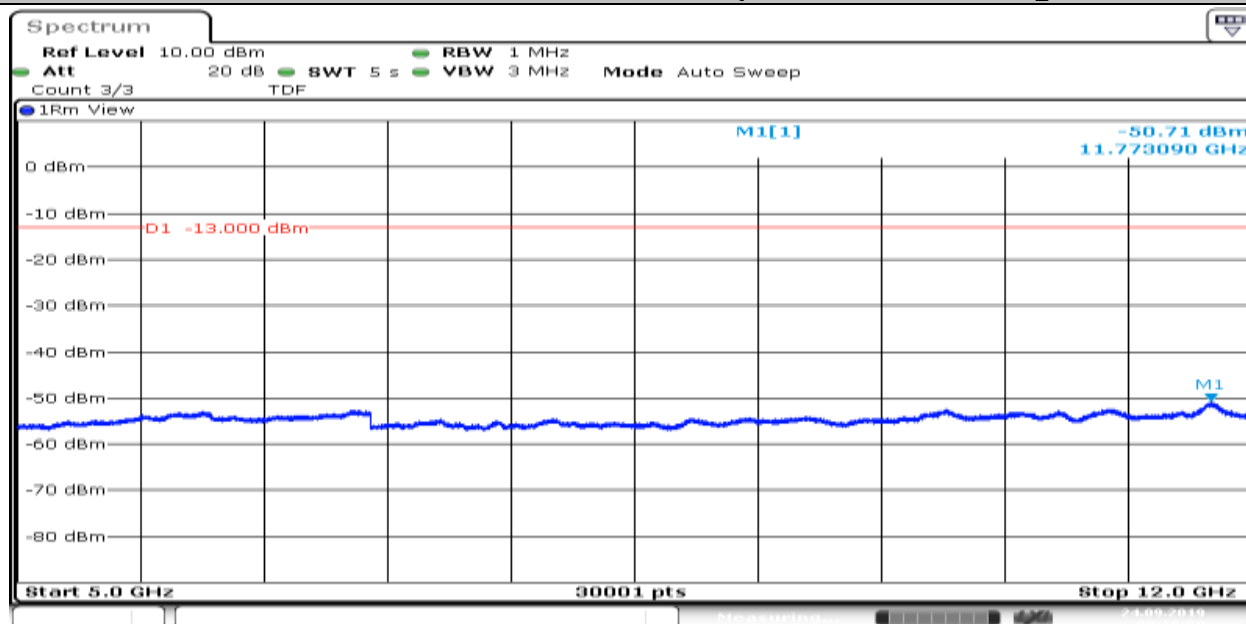
Appendix E.5: Conducted Spurious Emission for NB Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	5000	12000	5000~12000MHz@-50.71dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	30	1000	30~1000MHz@-34.35dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	12000	26500	12000~26500MHz@-45.6dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	5000	12000	5000~12000MHz@-50.86dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	1000	5000	1000~5000MHz@-40.22dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	12000	26500	12000~26500MHz@-45.68dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	1000	5000	1000~5000MHz@-40.14dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	30	1000	30~1000MHz@-35.86dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	12000	26500	12000~26500MHz@-45.54dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	1000	5000	1000~5000MHz@-40.12dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	30	1000	30~1000MHz@-36.66dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	5000	12000	5000~12000MHz@-50.97dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	1000	5000	1000~5000MHz@-40.17dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	12000	26500	12000~26500MHz@-45.66dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	5000	12000	5000~12000MHz@-50.92dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	1000	5000	1000~5000MHz@-40.06dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	30	1000	30~1000MHz@-36.62dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	12000	26500	12000~26500MHz@-45.78dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	30	1000	30~1000MHz@-37.26dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	5000	12000	5000~12000MHz@-50.9dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	12000	26500	12000~26500MHz@-45.52dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	30	1000	30~1000MHz@-31.53dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	1000	5000	1000~5000MHz@-40.14dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	5000	12000	5000~12000MHz@-51.02dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	12000	26500	12000~26500MHz@-45.7dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	30	1000	30~1000MHz@-33.64dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	1000	5000	1000~5000MHz@-40.22dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	5000	12000	5000~12000MHz@-51dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	1000	5000	1000~5000MHz@-40.2dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	5000	12000	5000~12000MHz@-50.99dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	12000	26500	12000~26500MHz@-45.78dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	30	1000	30~1000MHz@-36.76dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	1000	5000	1000~5000MHz@-40.21dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	5000	12000	5000~12000MHz@-51.01dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	12000	26500	12000~26500MHz@-45.57dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	30	1000	30~1000MHz@-36.48dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	5000	12000	5000~12000MHz@-51.06dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	12000	26500	12000~26500MHz@-45.84dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	5000	12000	5000~12000MHz@-51.15dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	1000	5000	1000~5000MHz@-40.28dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	12000	26500	12000~26500MHz@-45.7dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	1000	5000	1000~5000MHz@-40.32dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	30	1000	30~1000MHz@-34.05dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	30	1000	30~1000MHz@-32.84dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	1000	5000	1000~5000MHz@-40.16dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	30	1000	30~1000MHz@-34.47dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	12000	26500	12000~26500MHz@-45.83dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	5000	12000	5000~12000MHz@-50.68dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	30	1000	30~1000MHz@-33.69dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	12000	26500	12000~26500MHz@-45.88dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	1000	5000	1000~5000MHz@-40.16dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	5000	12000	5000~12000MHz@-50.91dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	12000	26500	12000~26500MHz@-45.84dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	30	1000	30~1000MHz@-32.69dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	1000	5000	1000~5000MHz@-40.18dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	5000	12000	5000~12000MHz@-51.03dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	12000	26500	12000~26500MHz@-45.71dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	30	1000	30~1000MHz@-33.76dBm	-13	PASS

Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	1000	5000	1000-5000MHz@-40.2dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	5000	12000	5000-12000MHz@-51.03dBm	-13	PASS

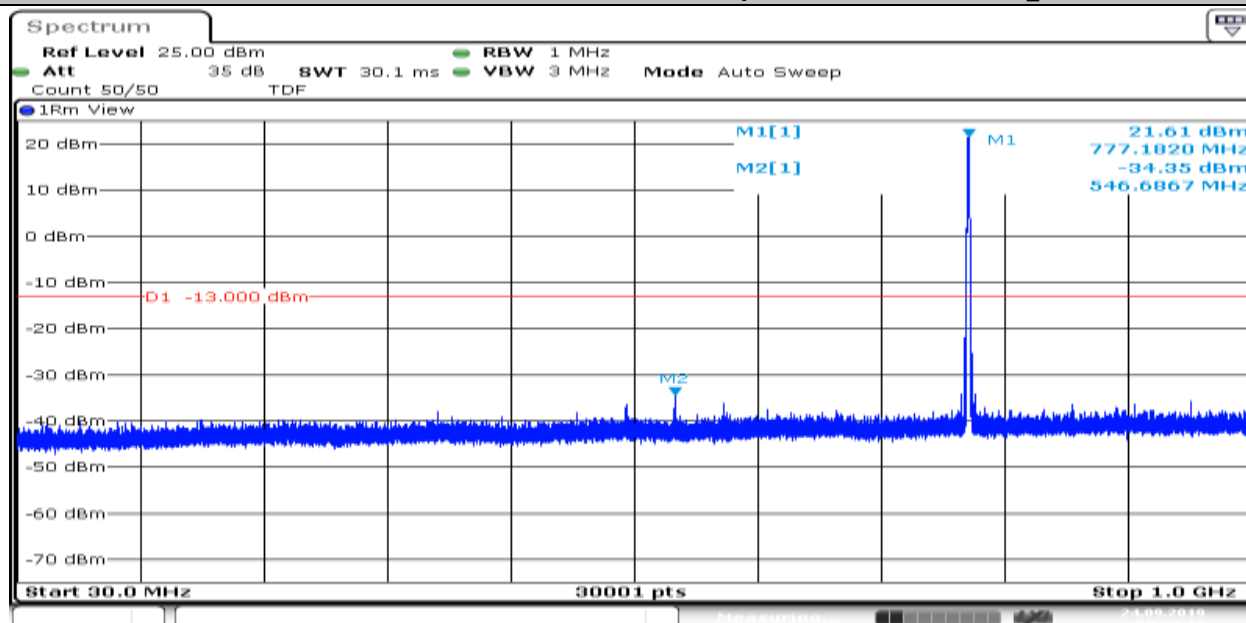
Test Graphs

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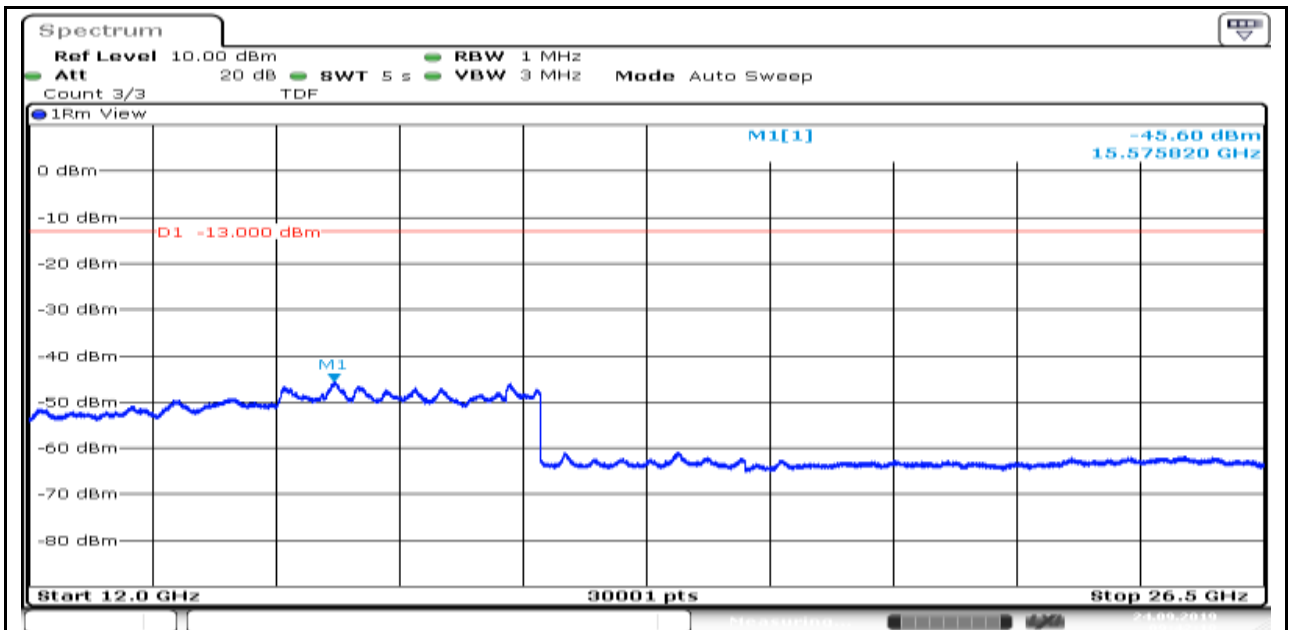
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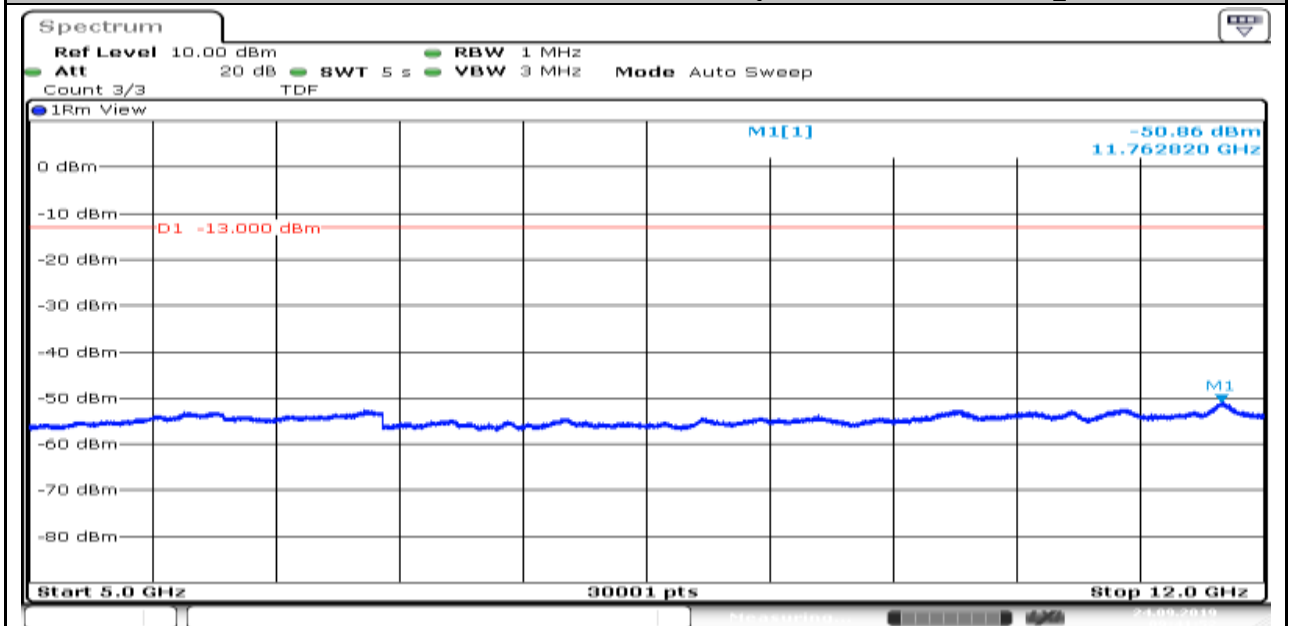


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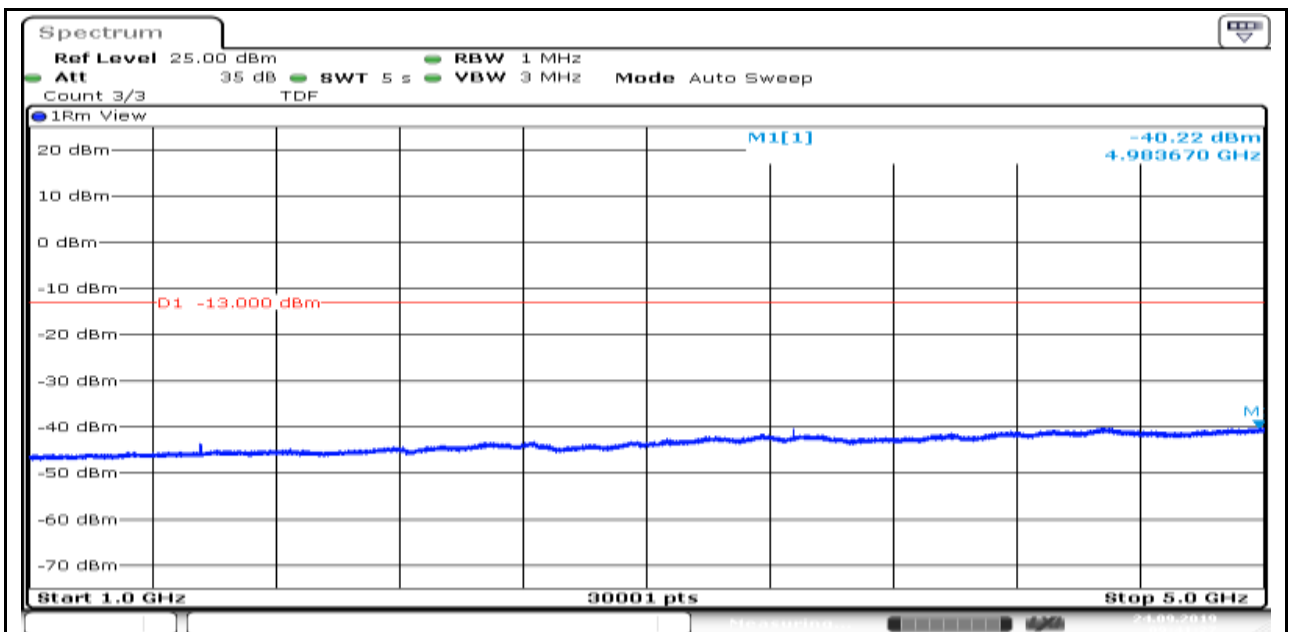
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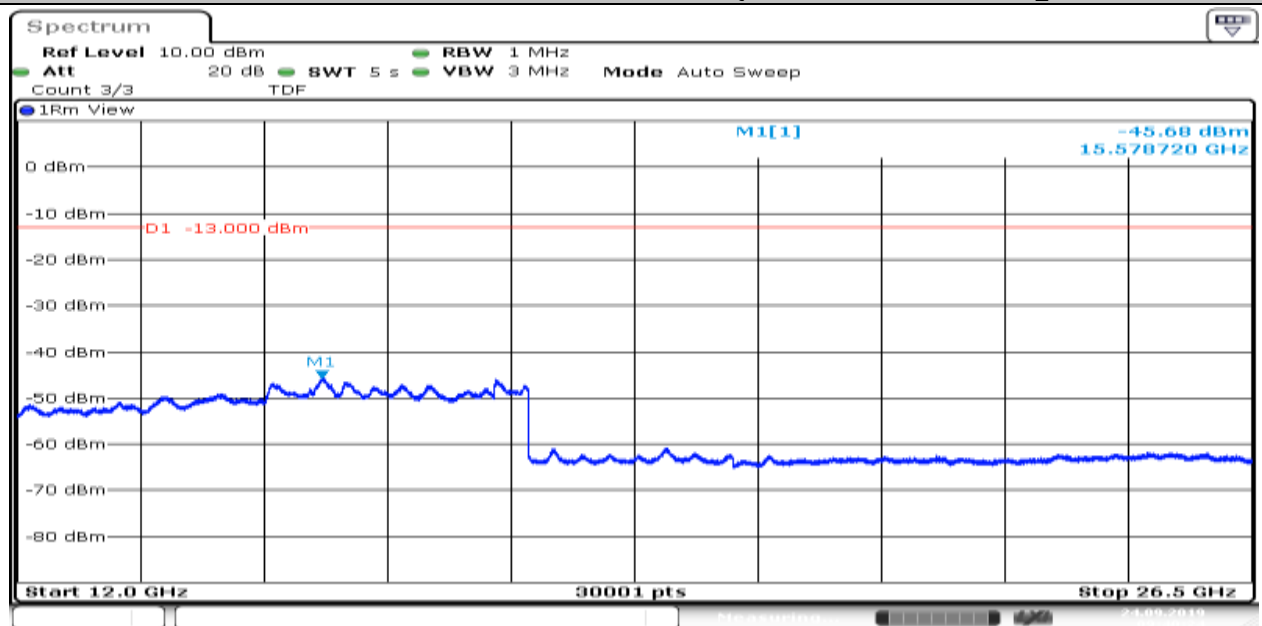
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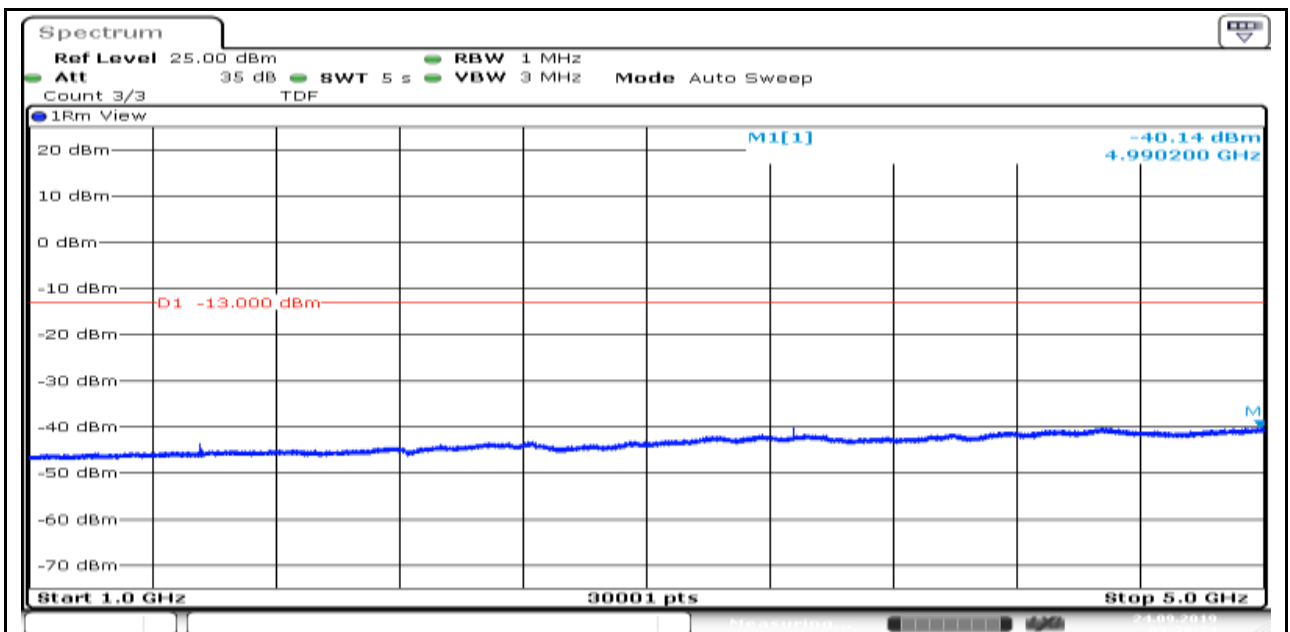
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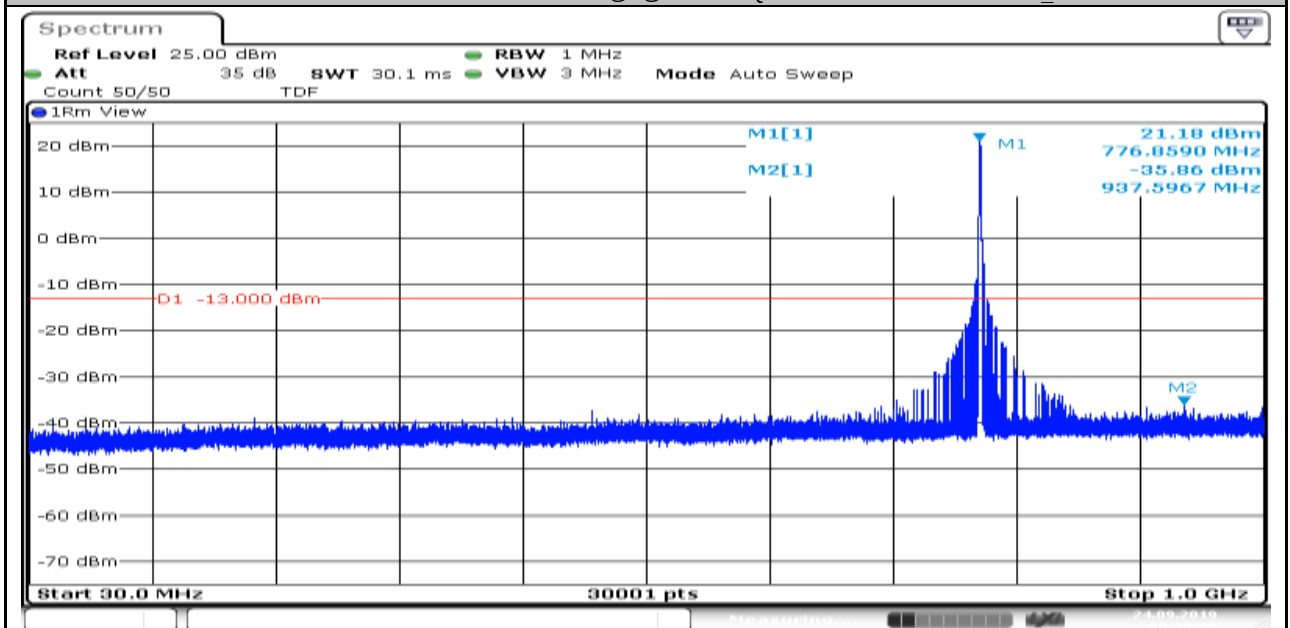
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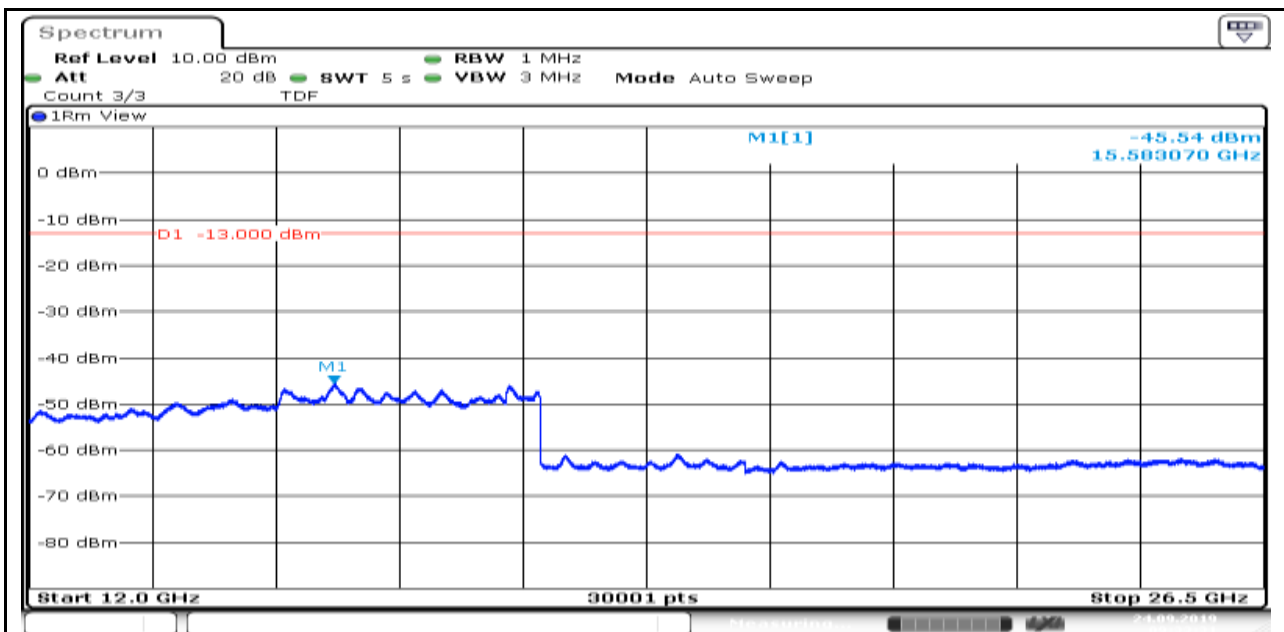
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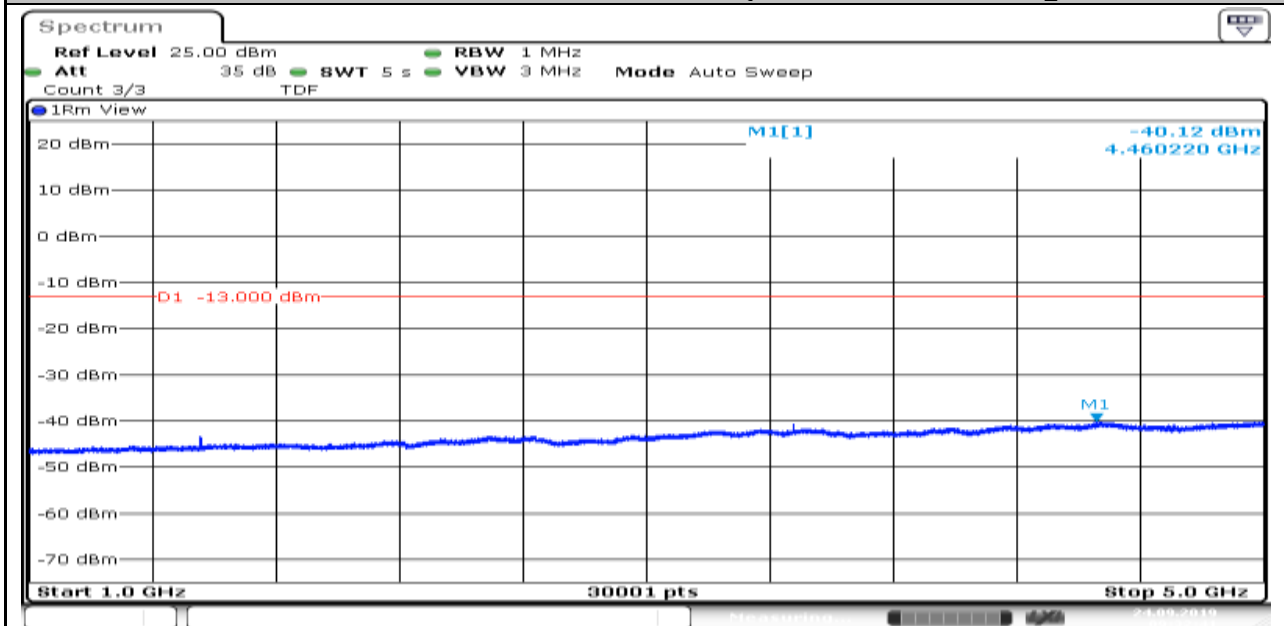
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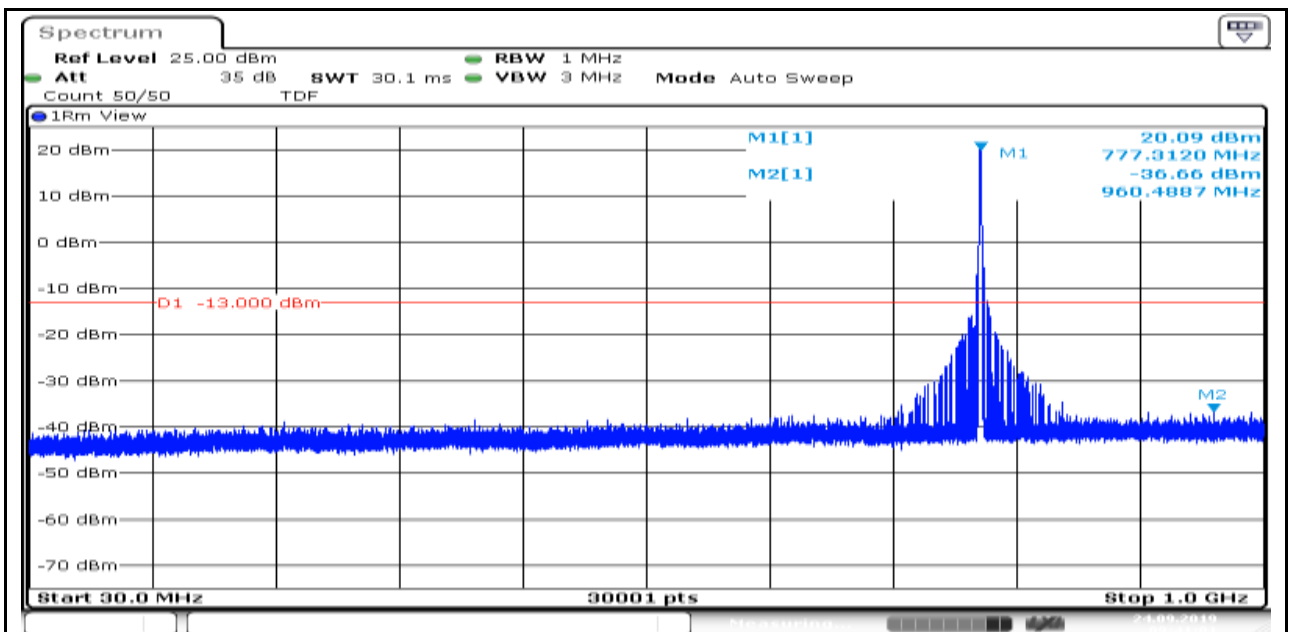
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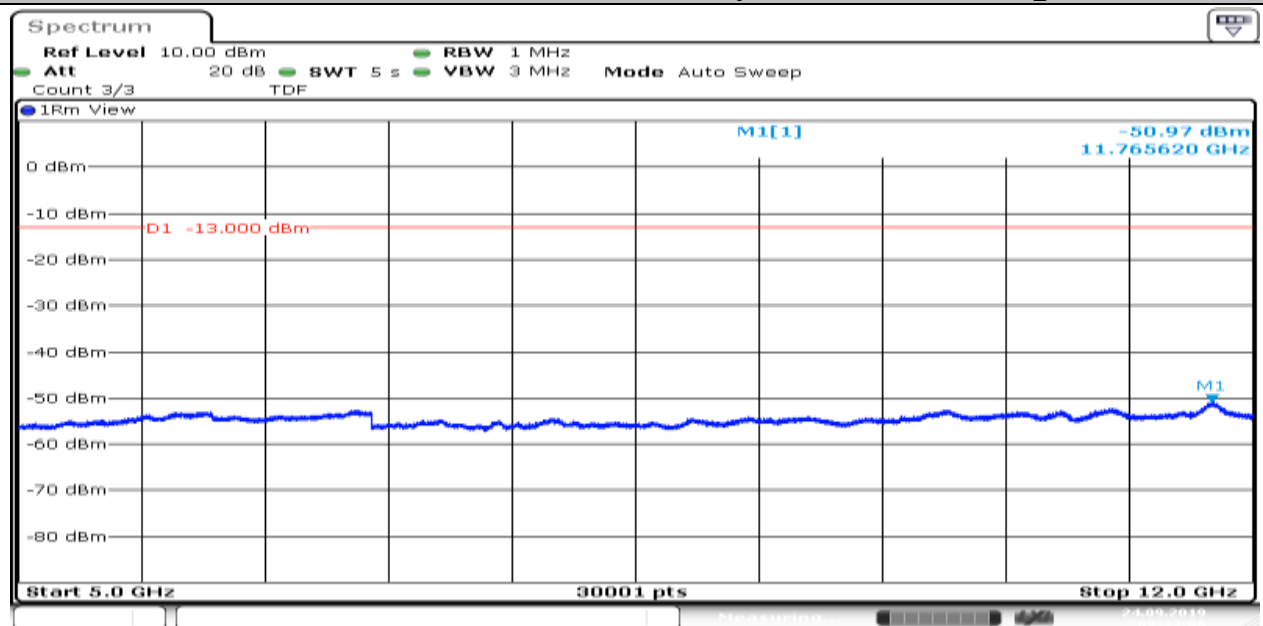
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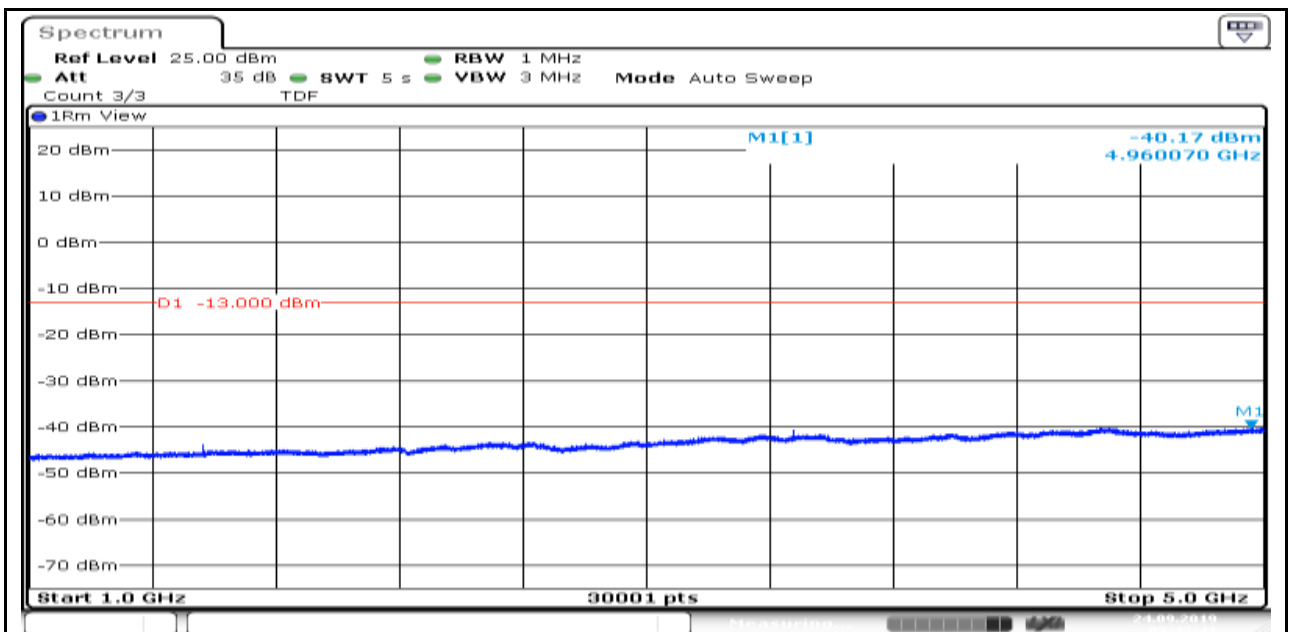
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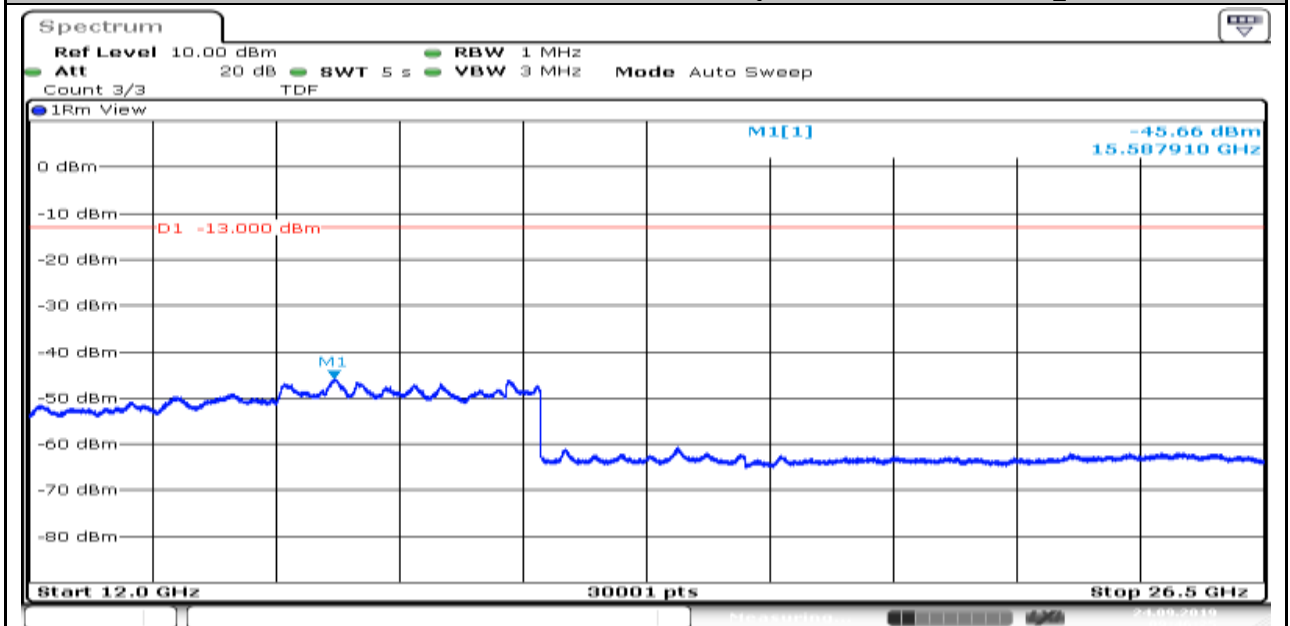
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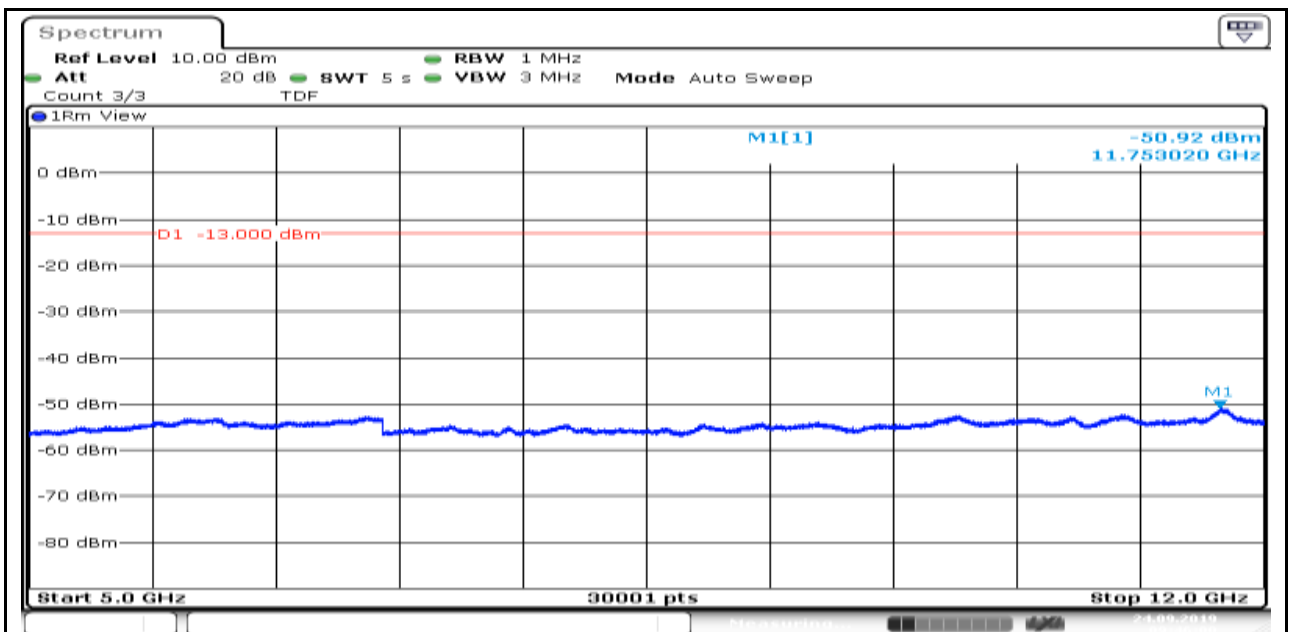
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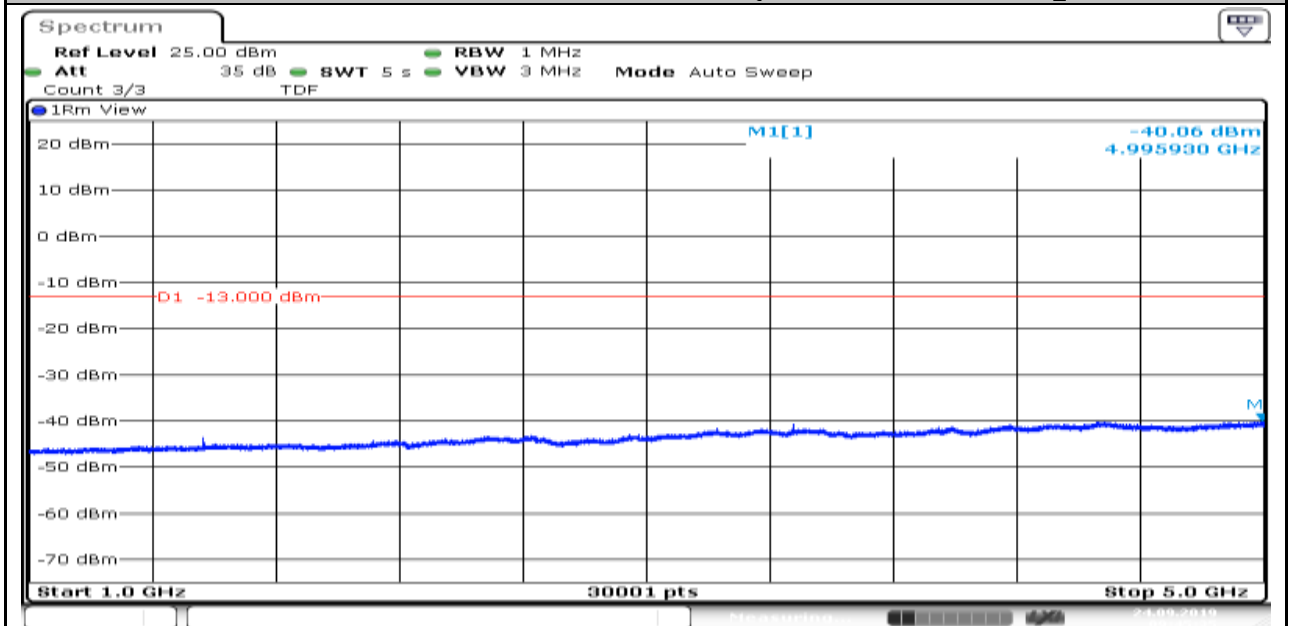
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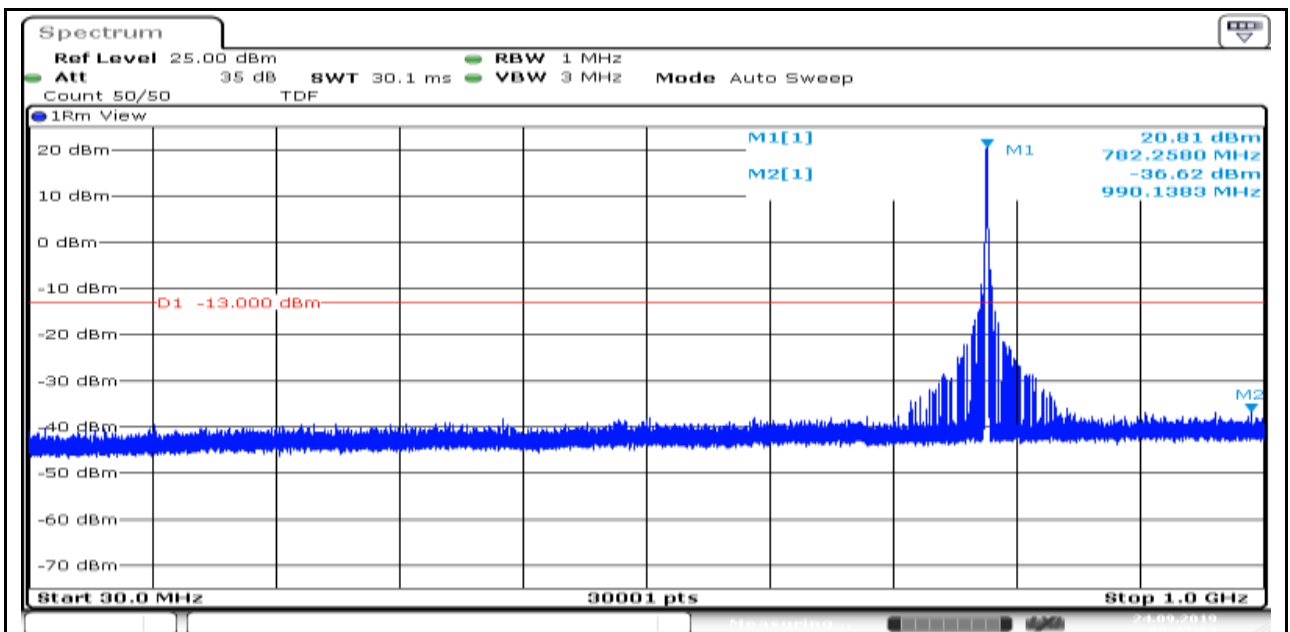
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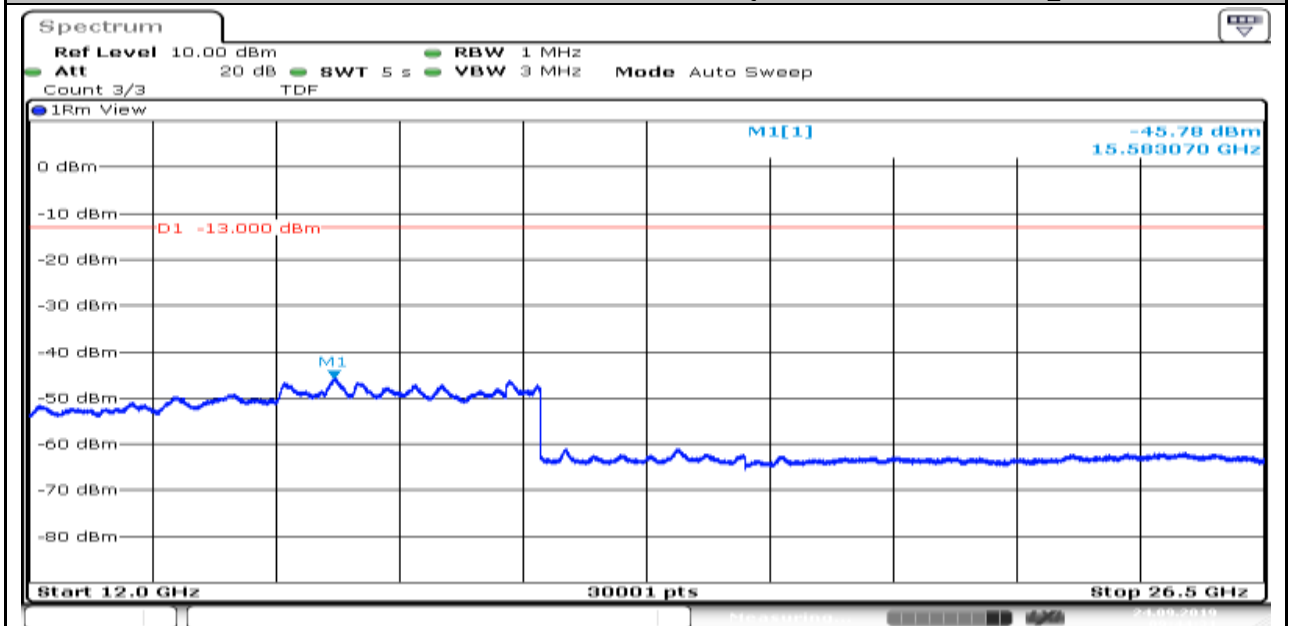
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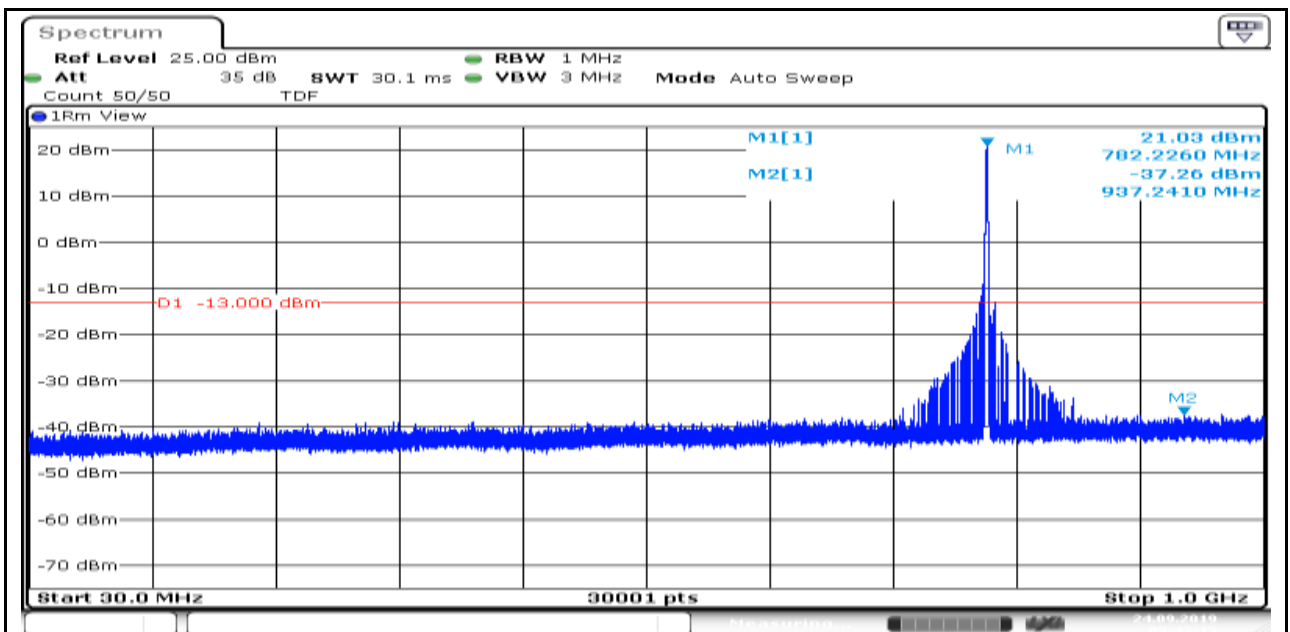
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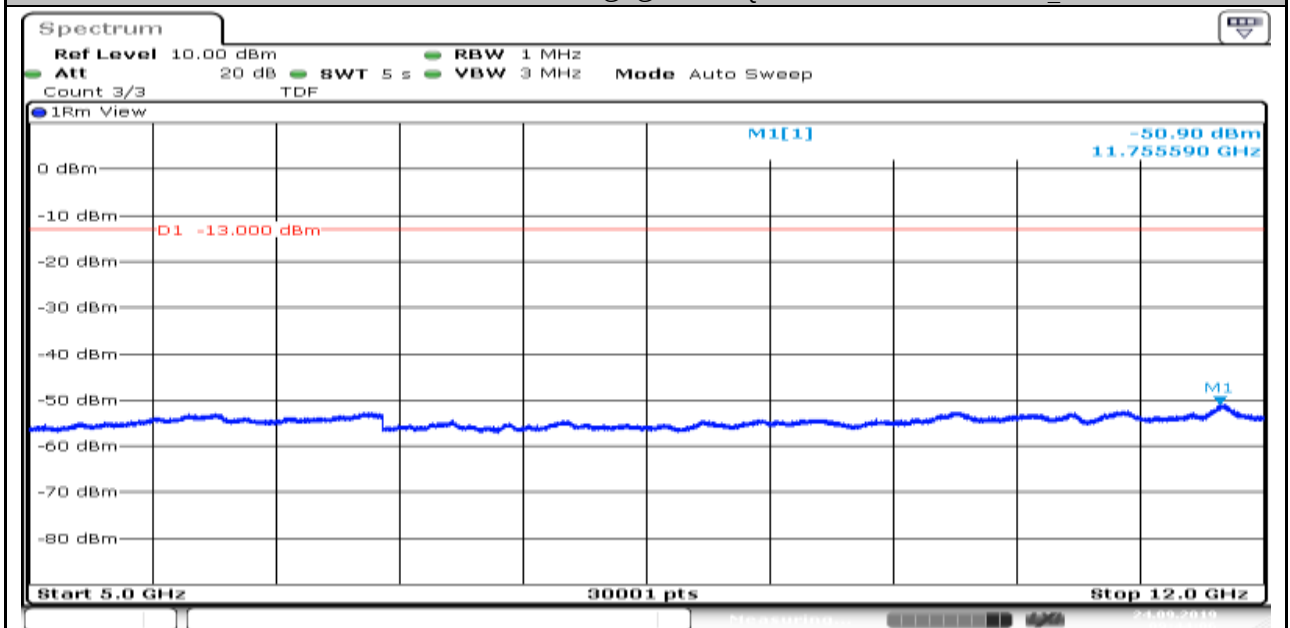
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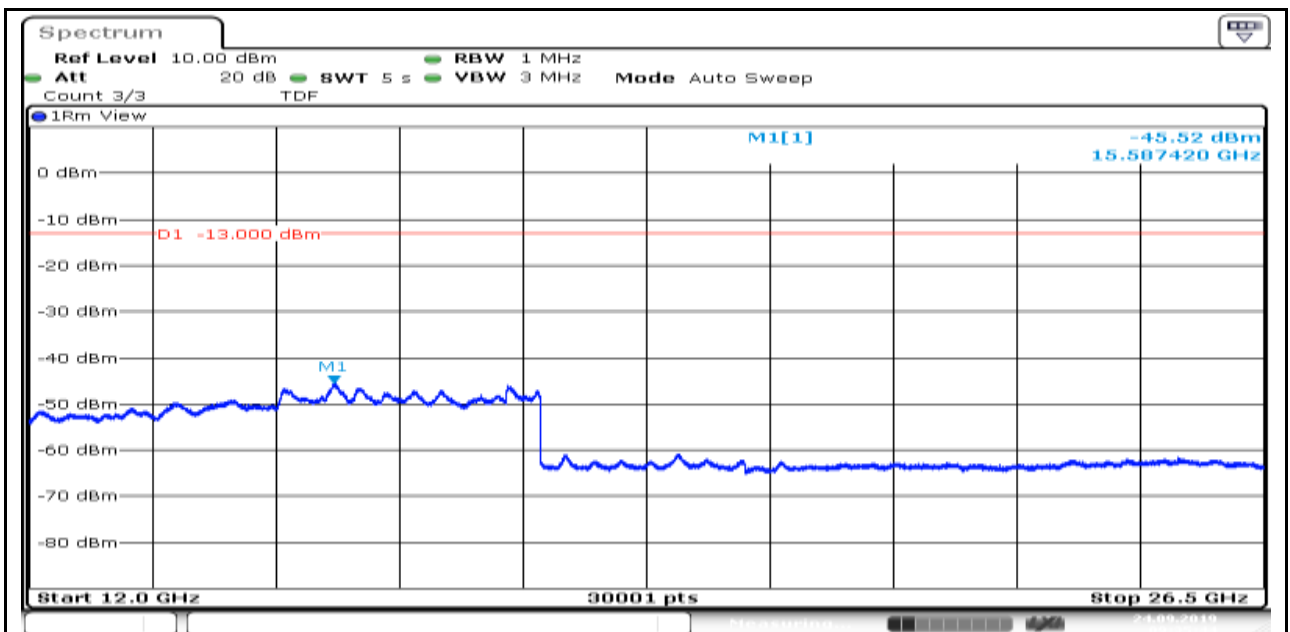
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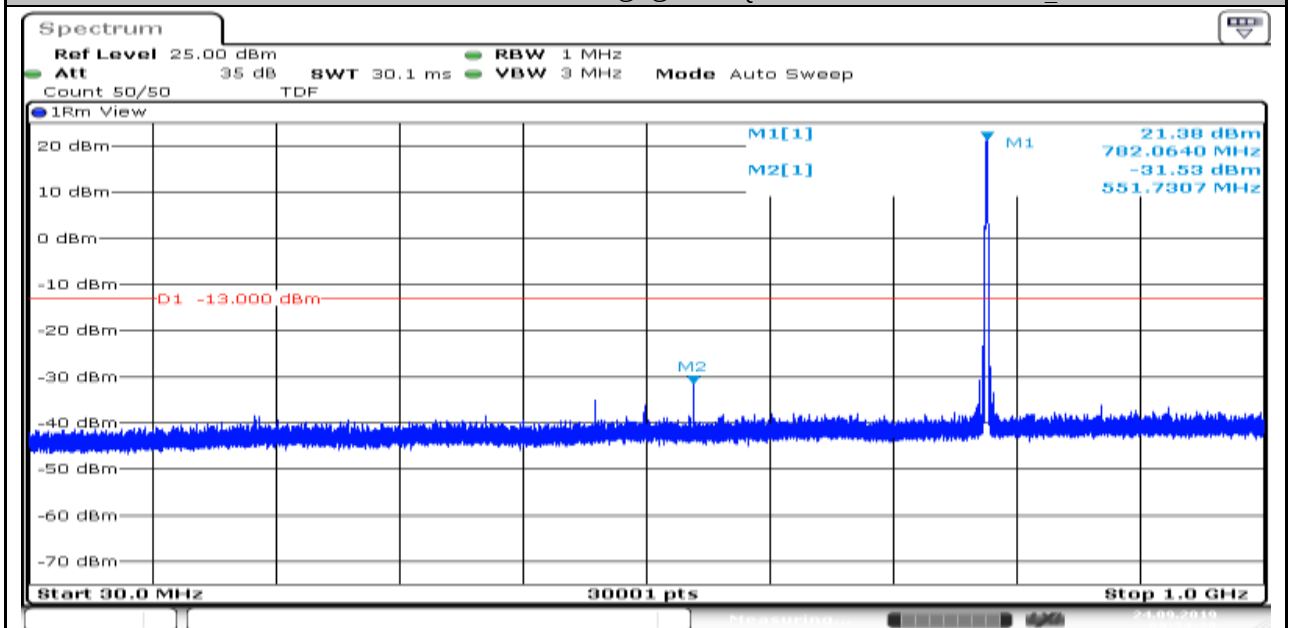
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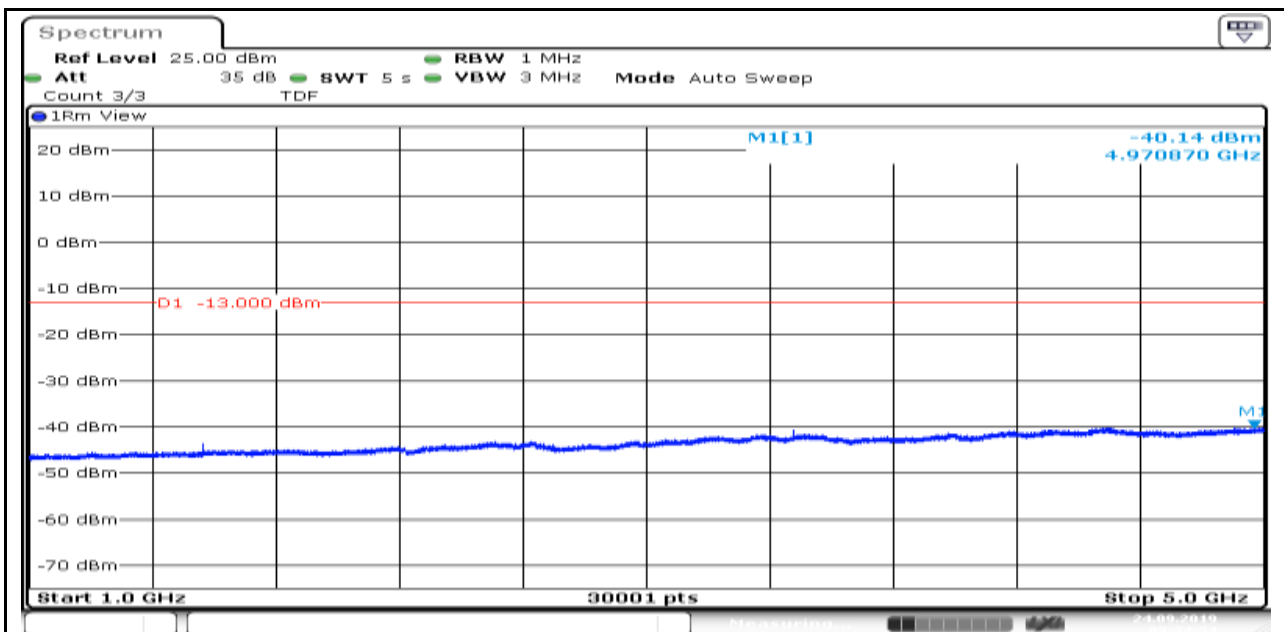
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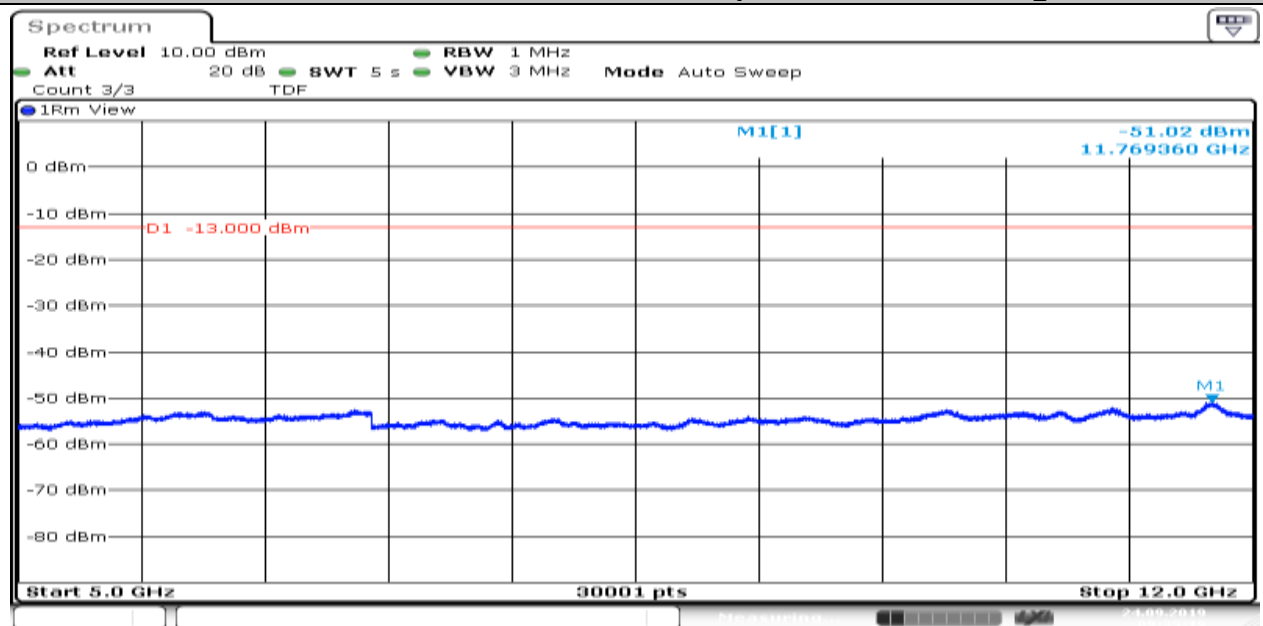
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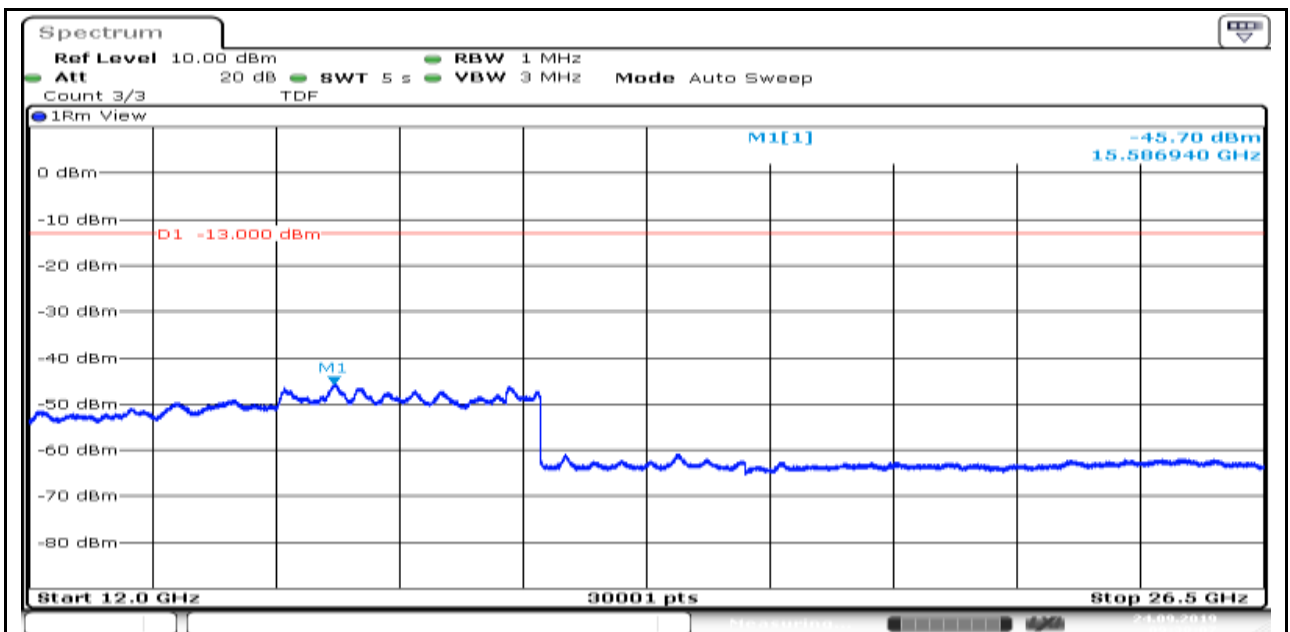
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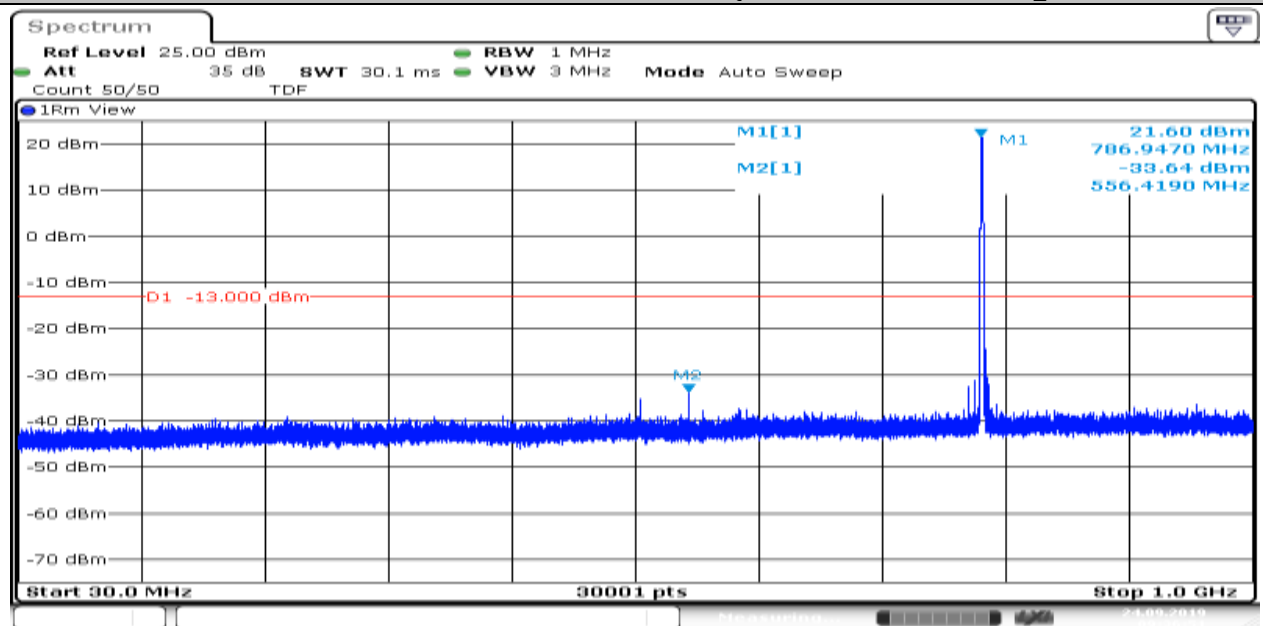
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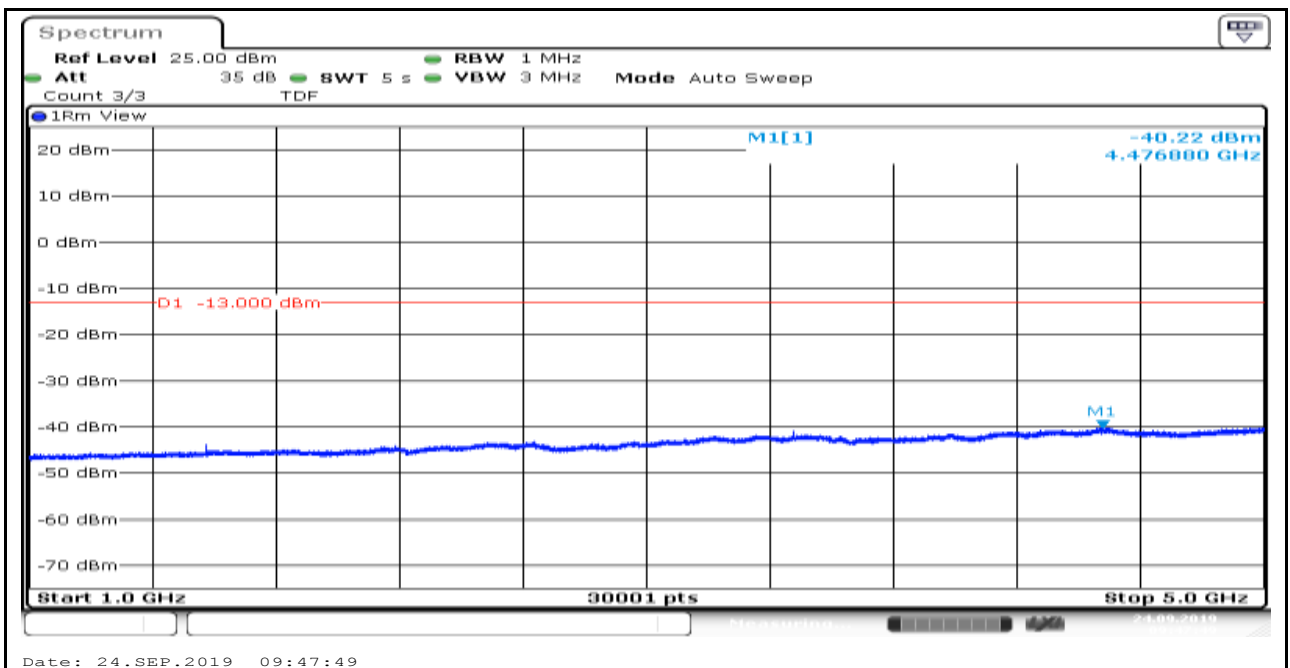
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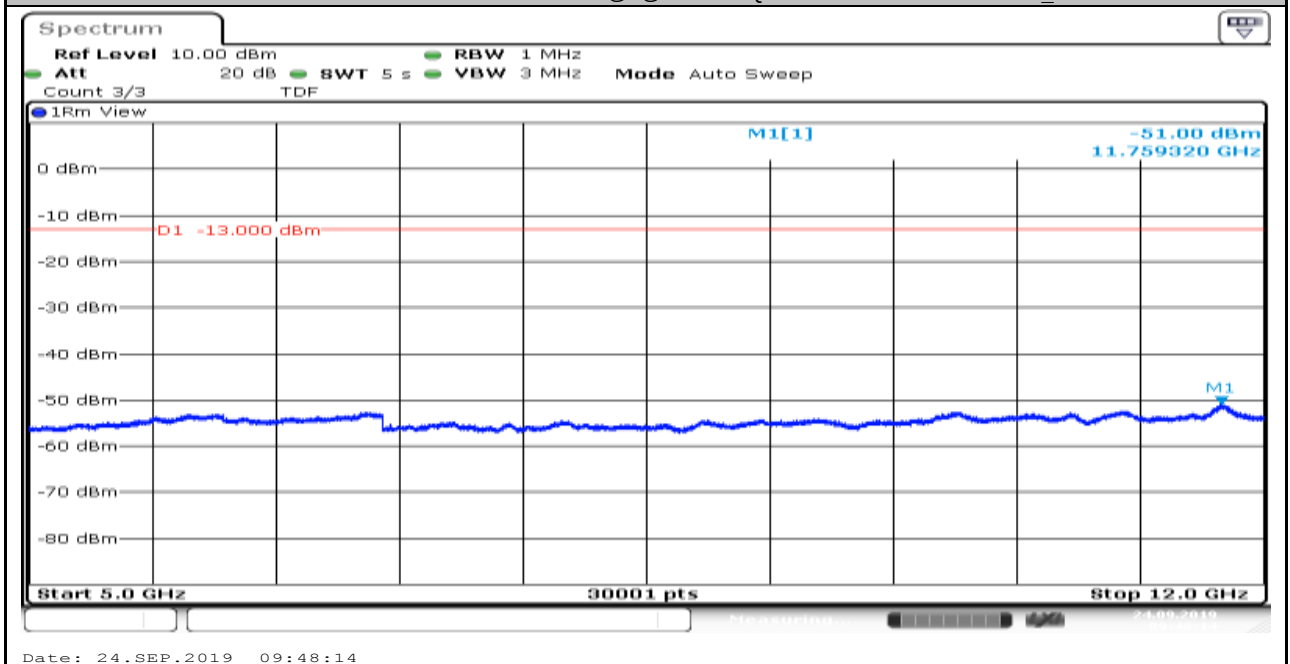
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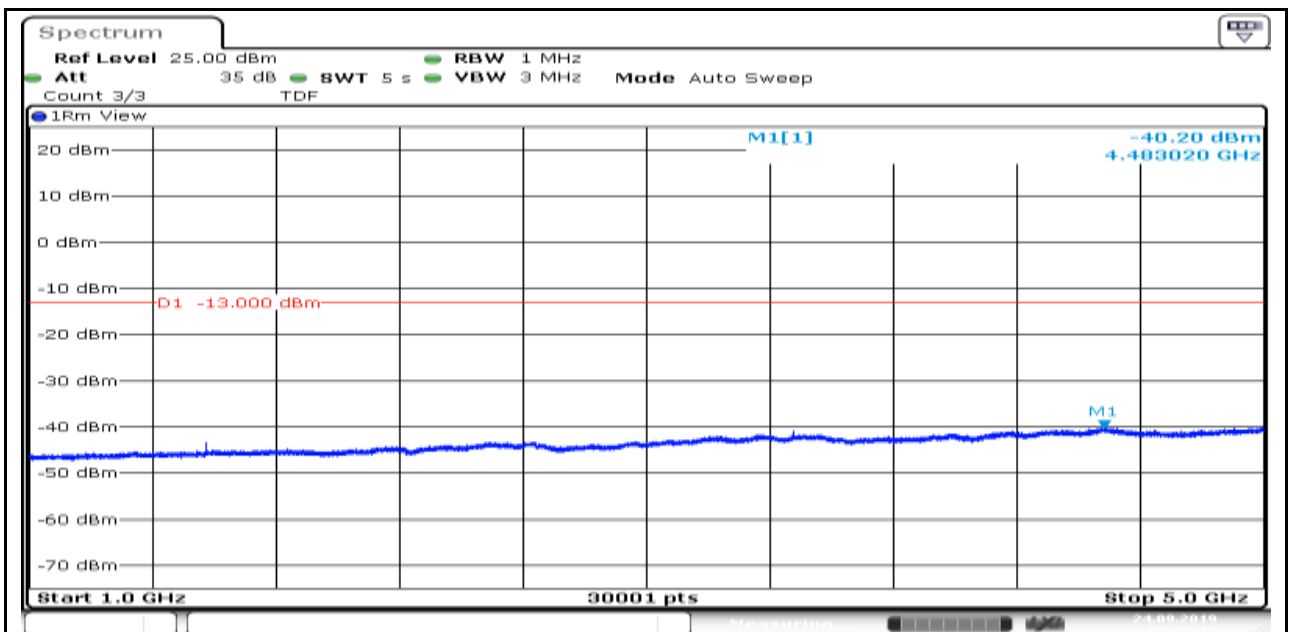
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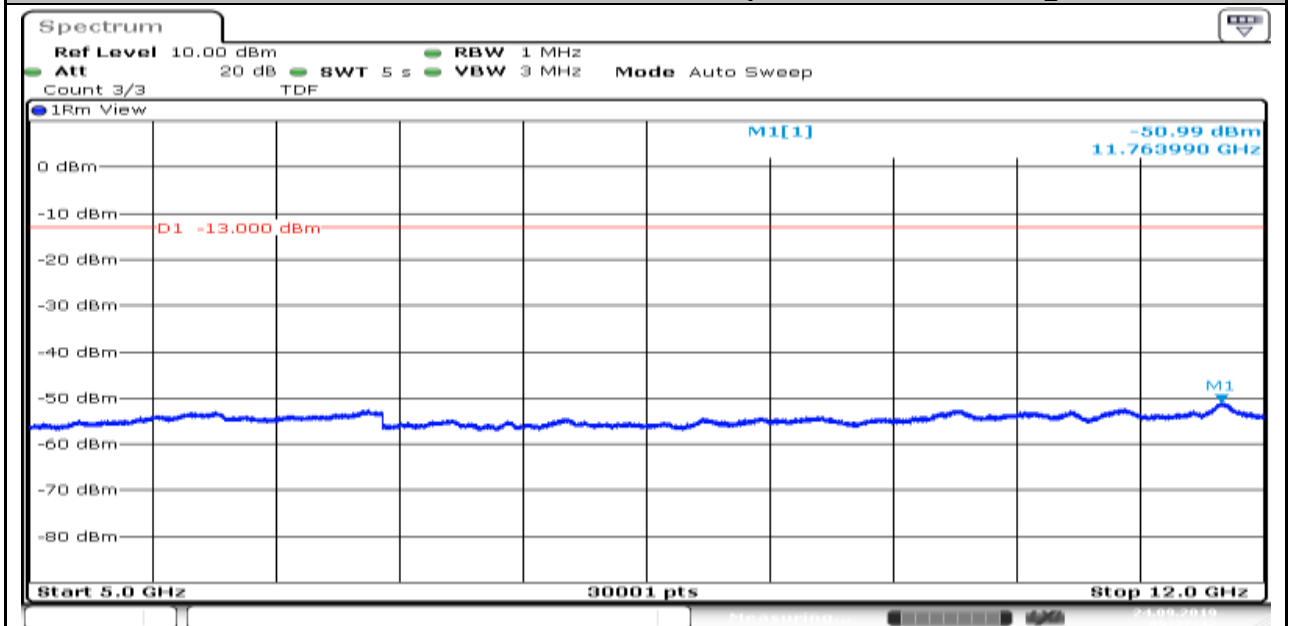
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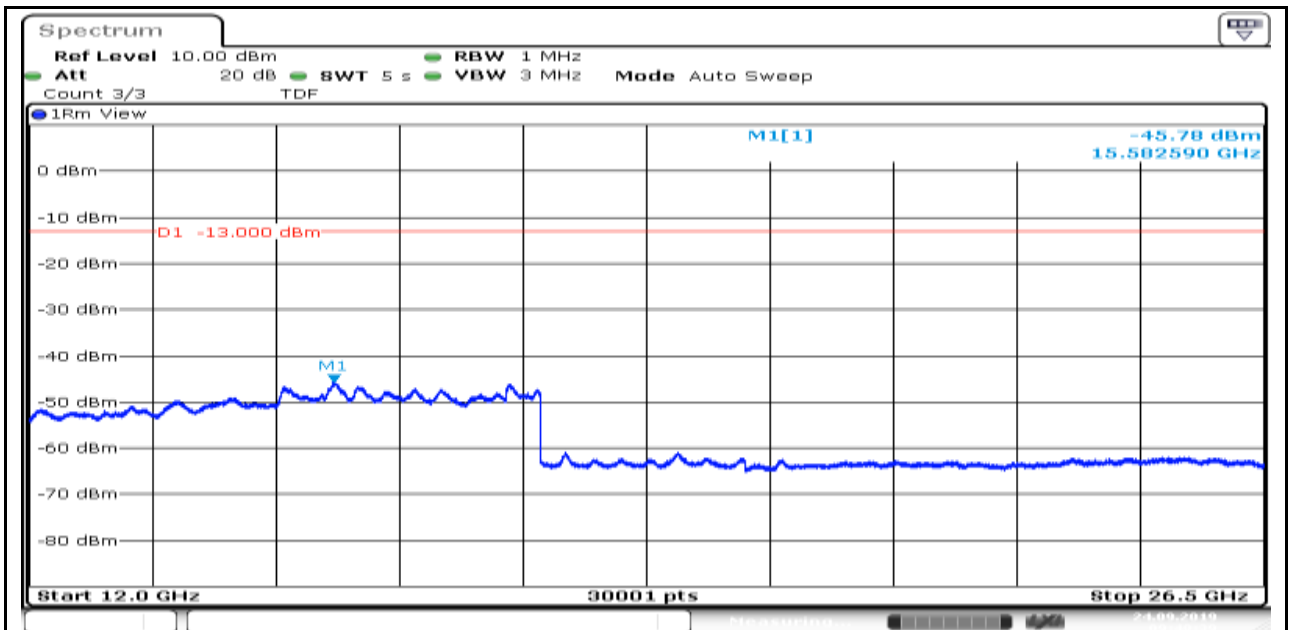
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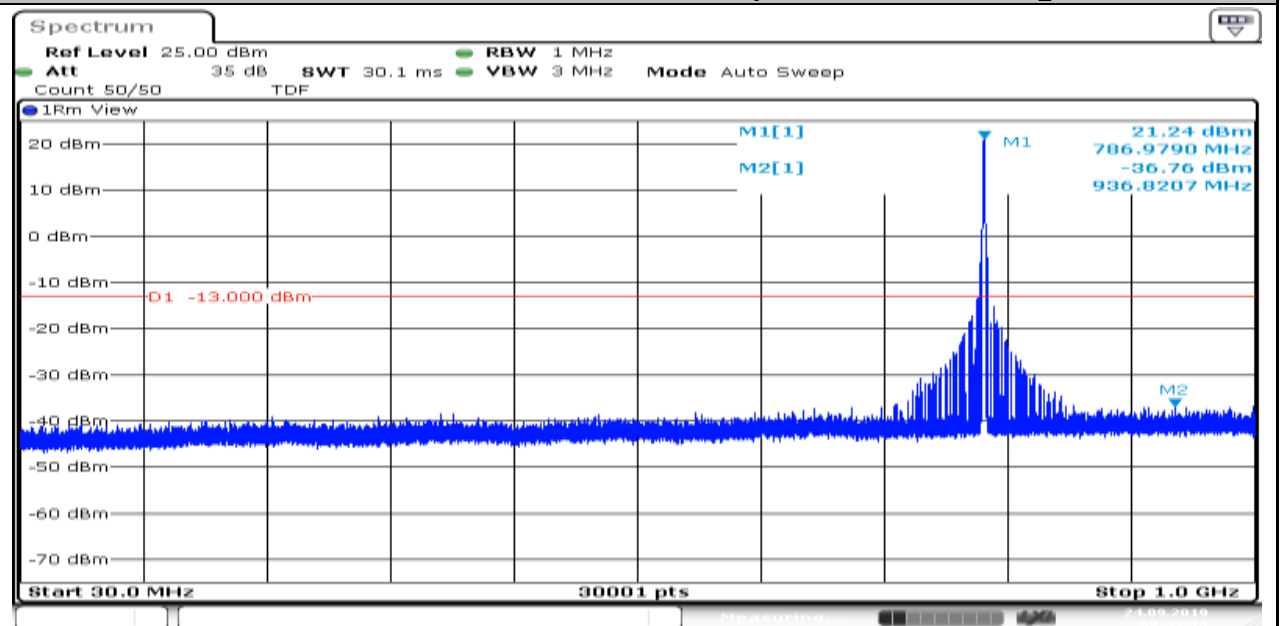
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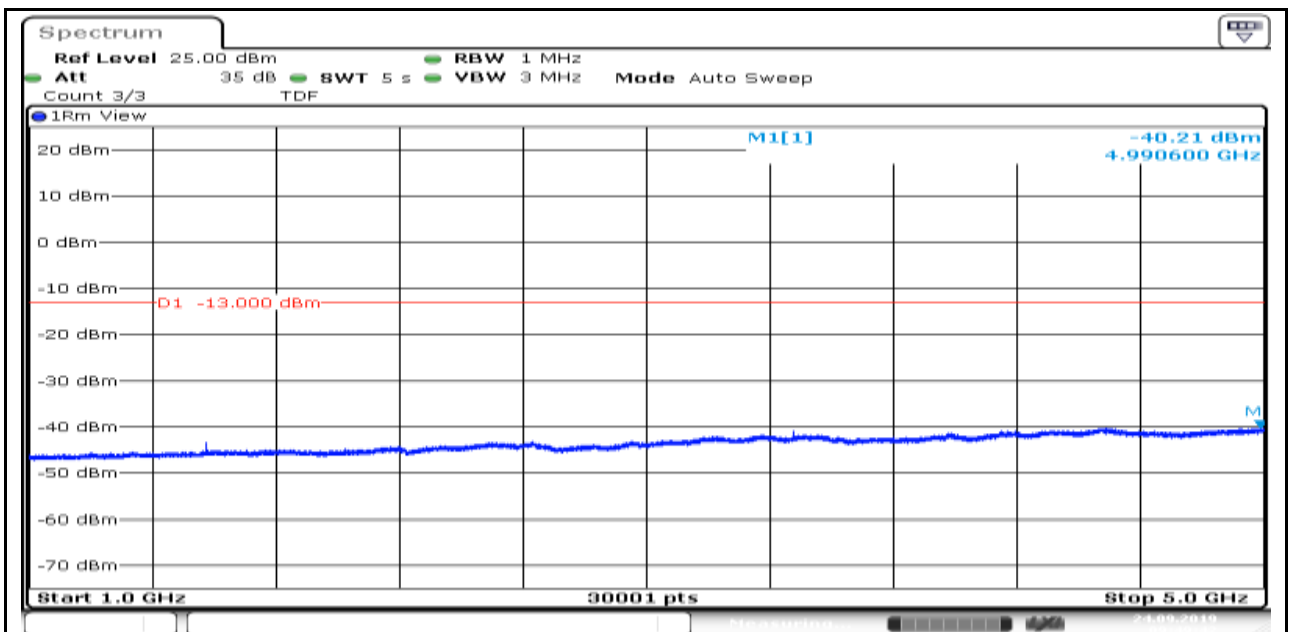
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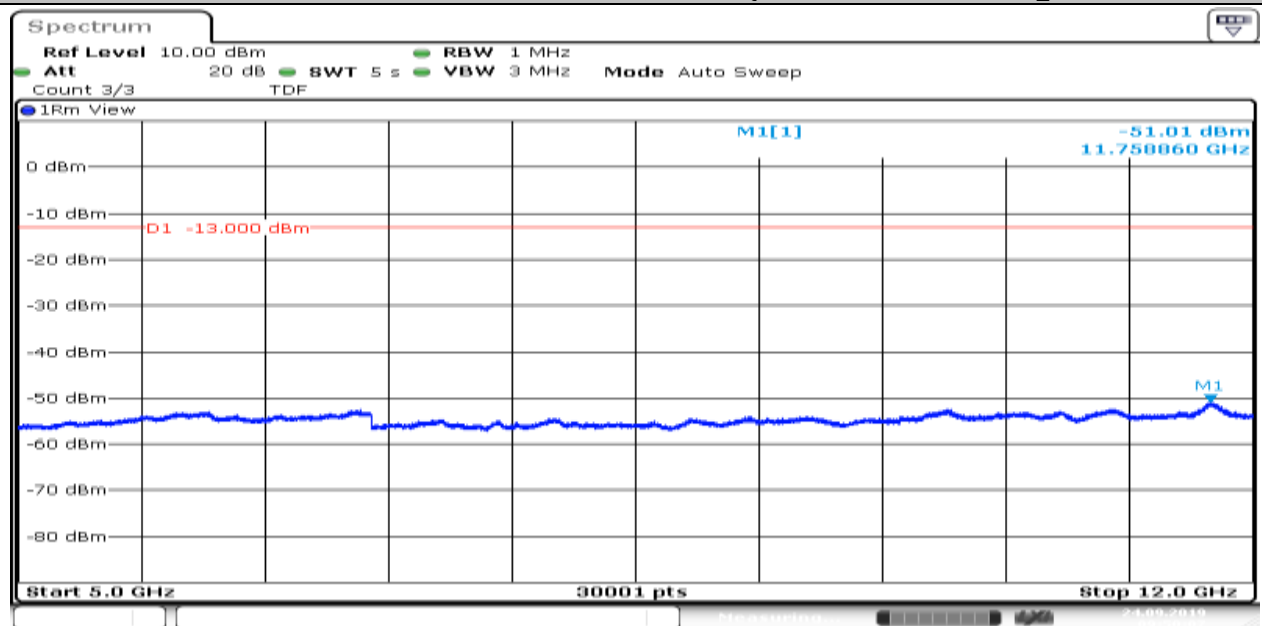
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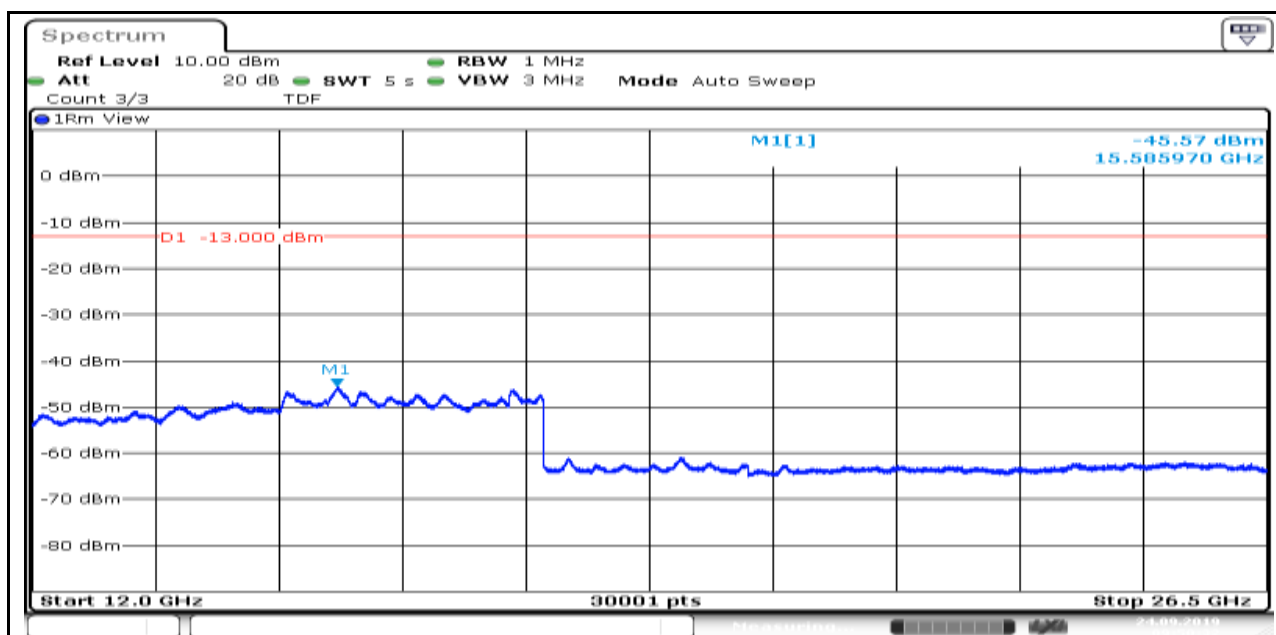
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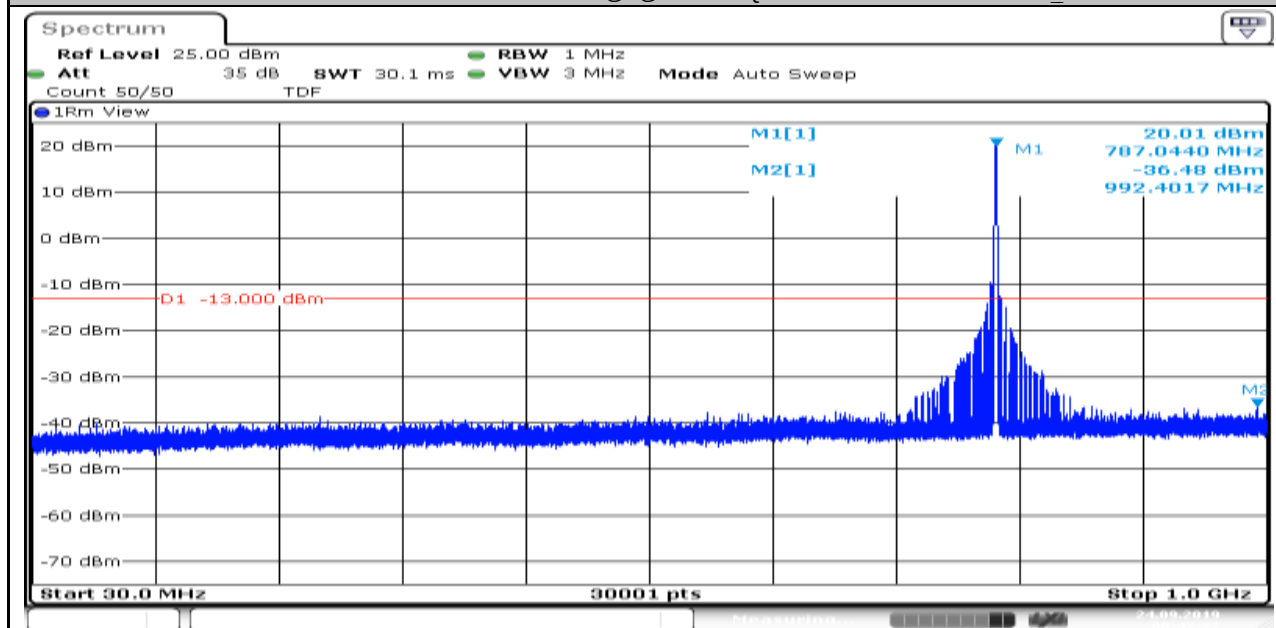
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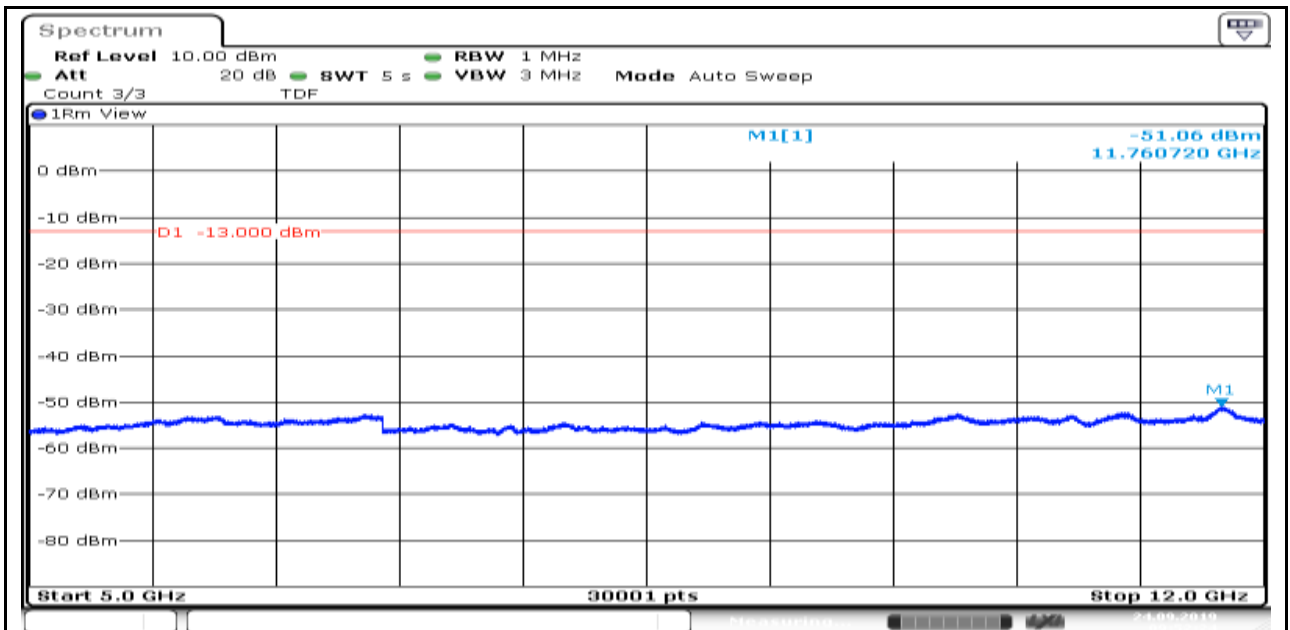
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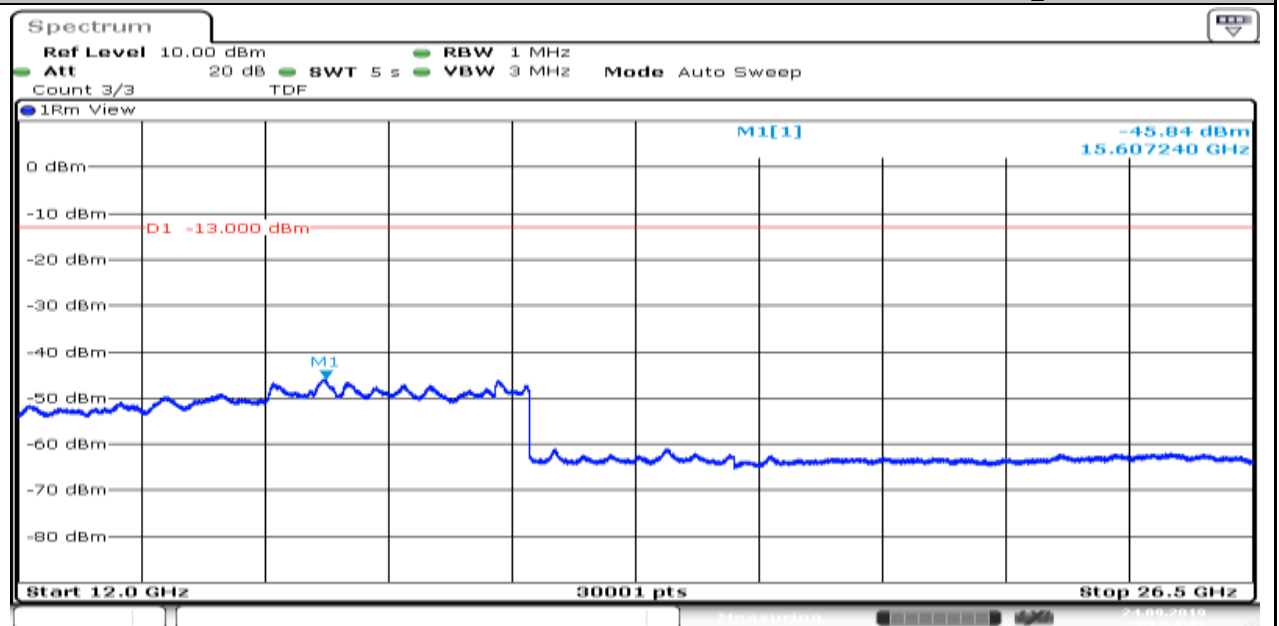
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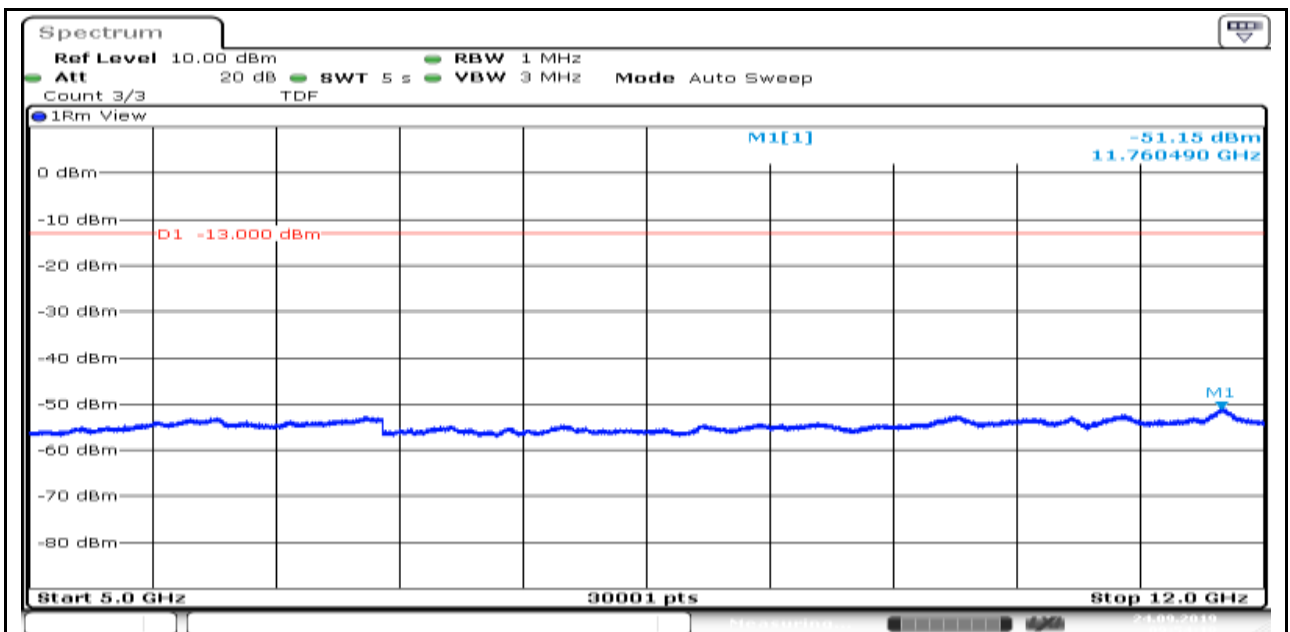
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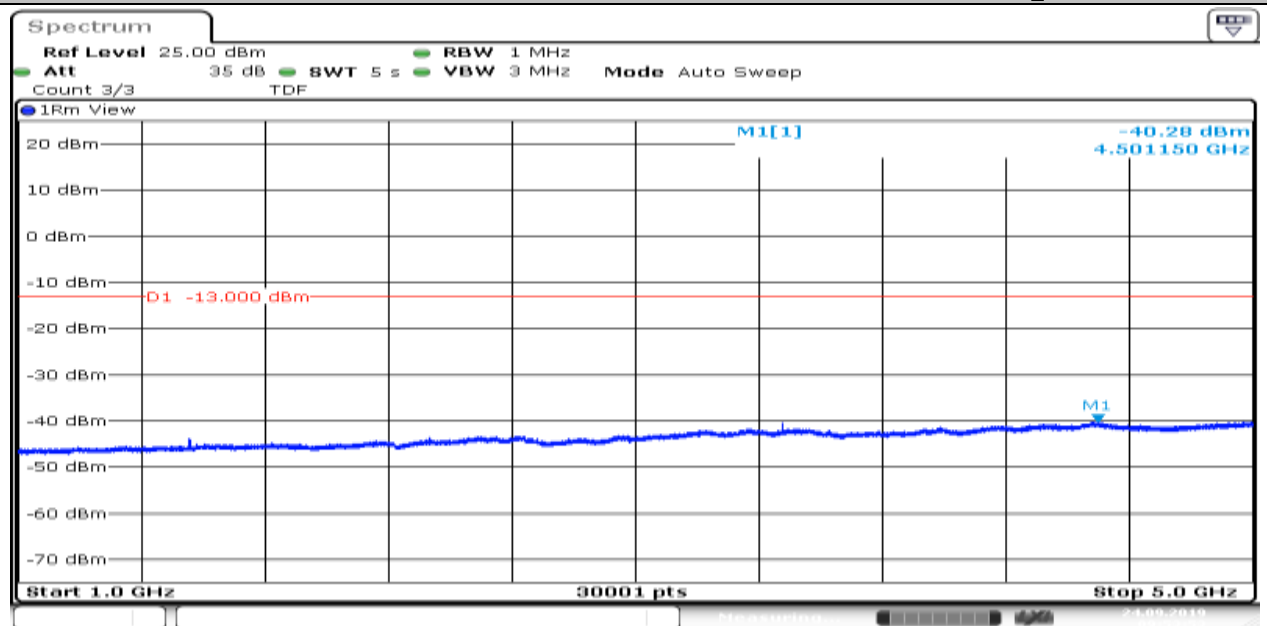
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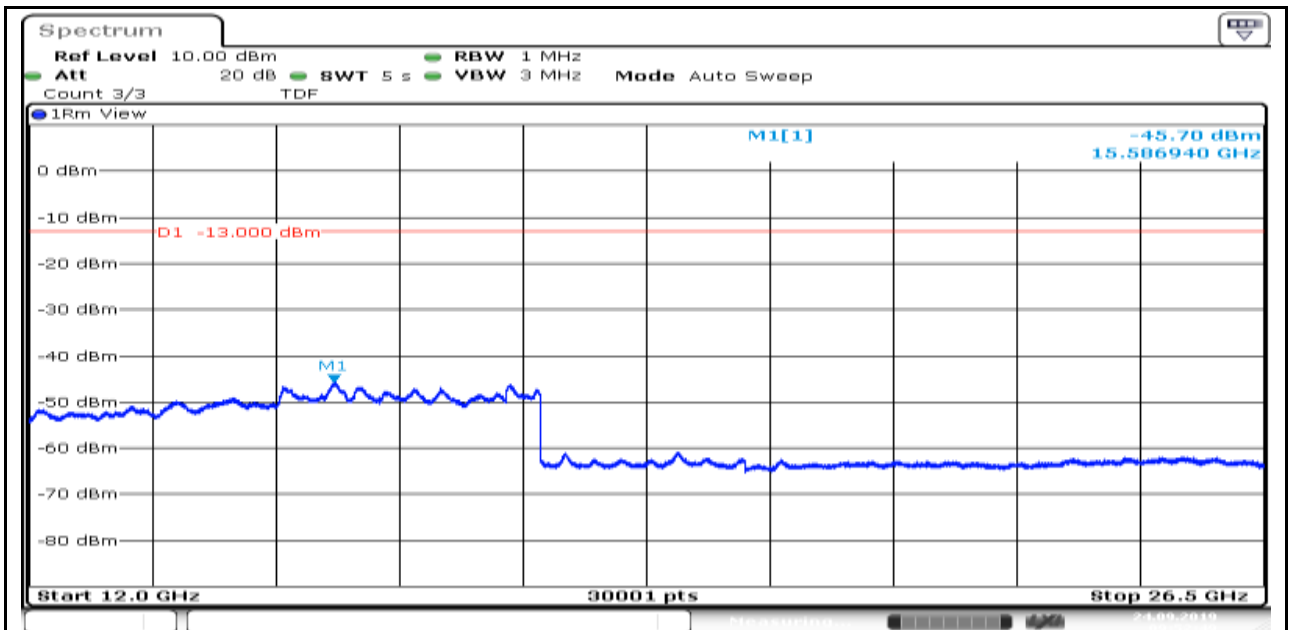
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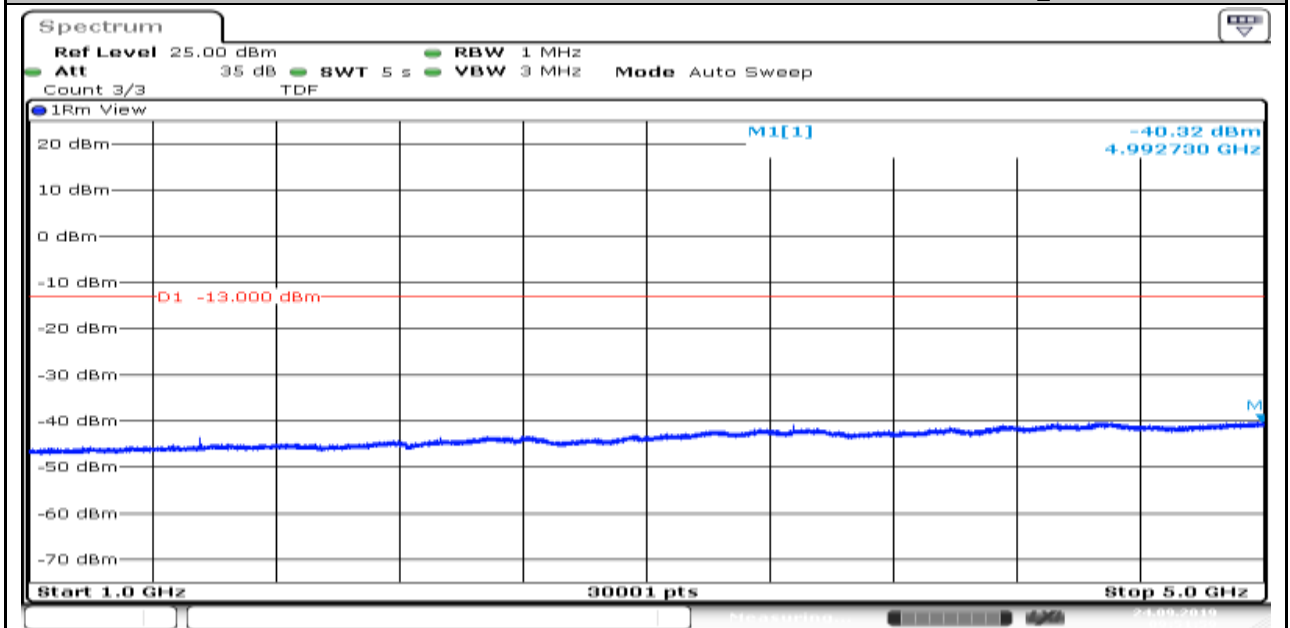
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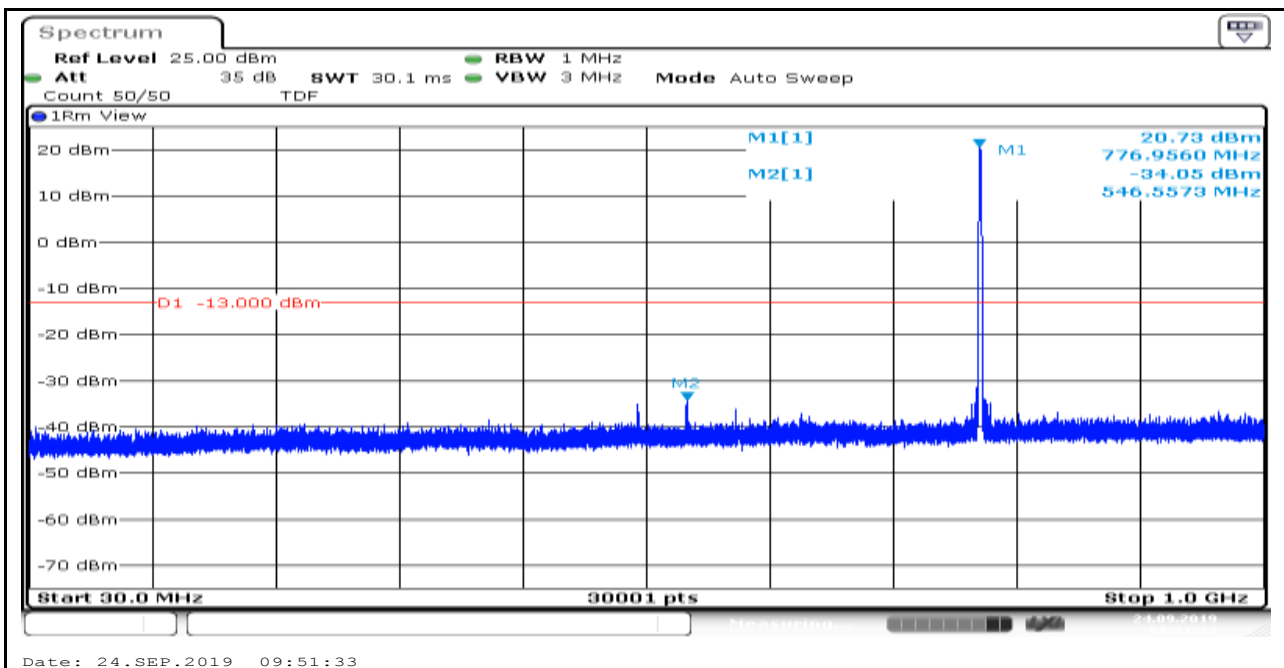
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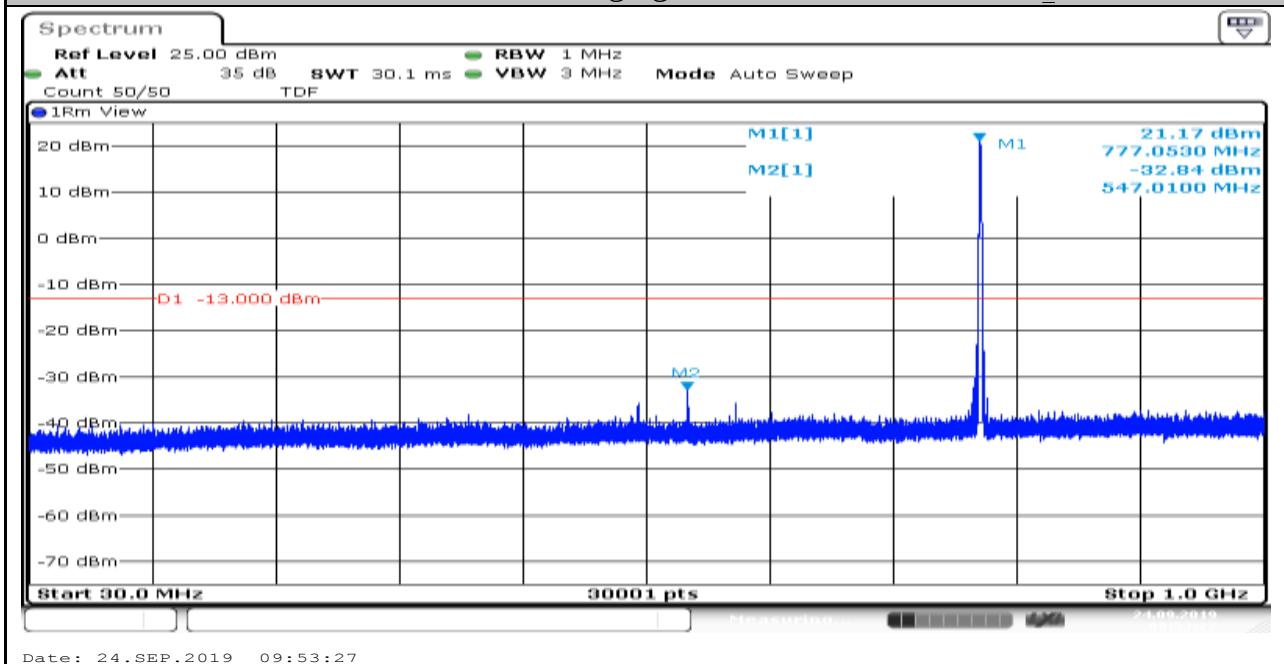
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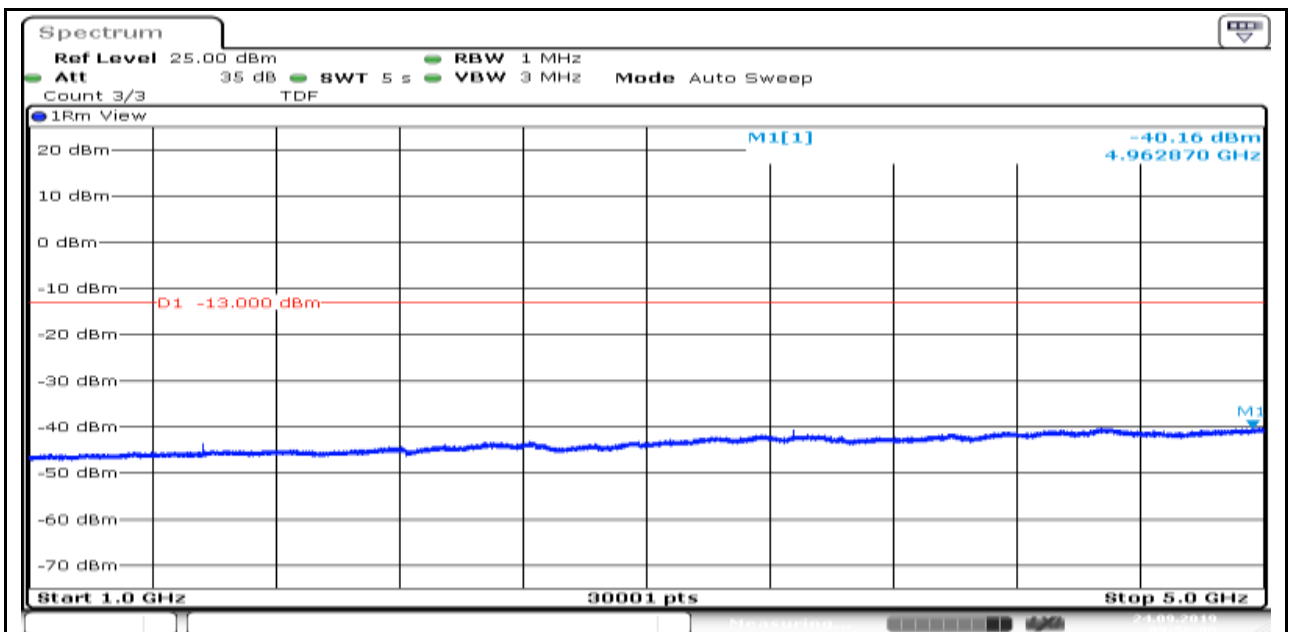
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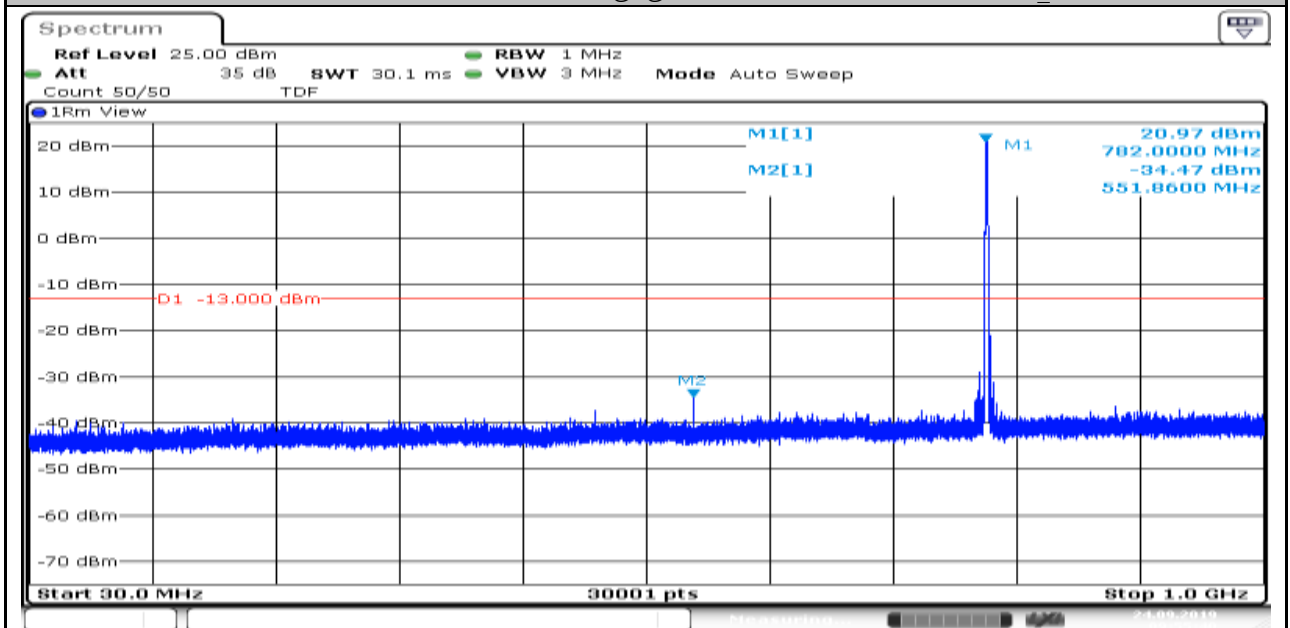
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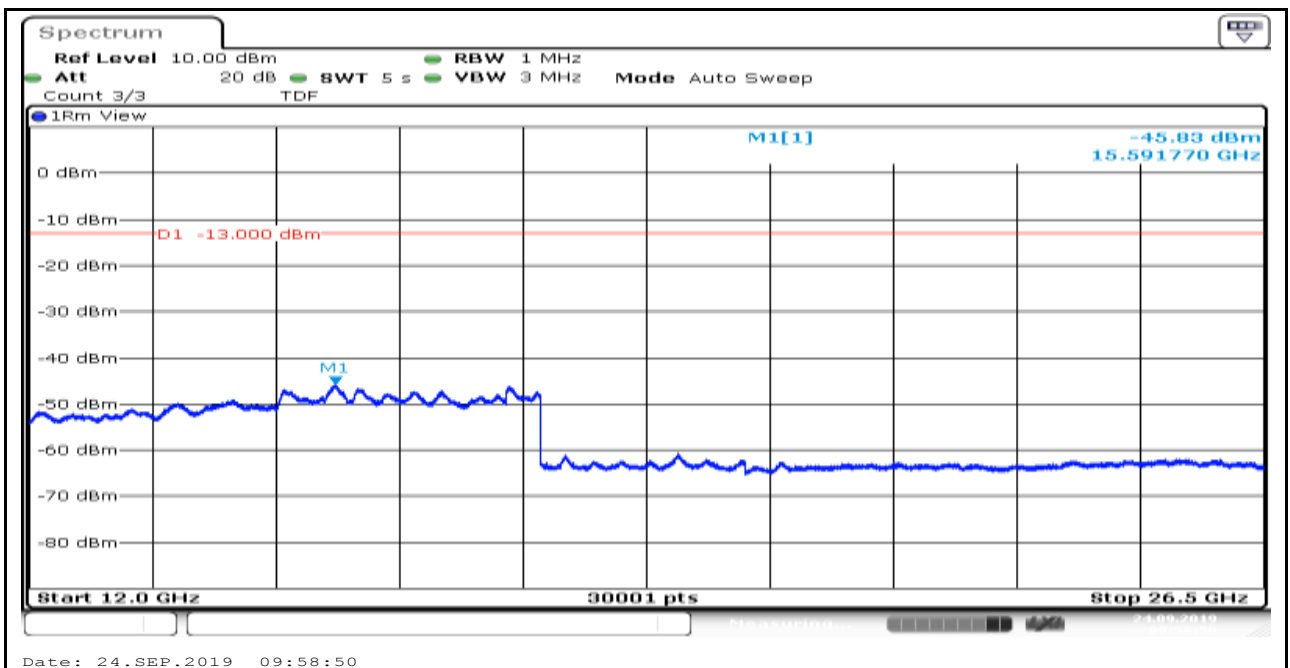
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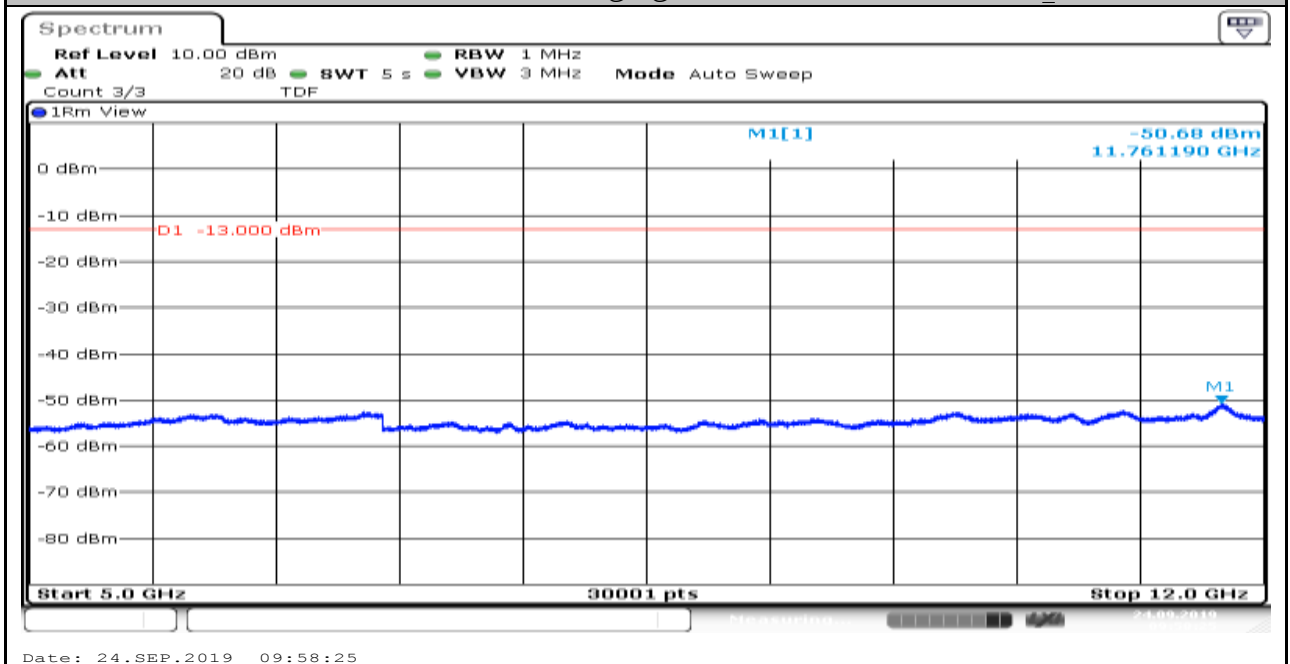
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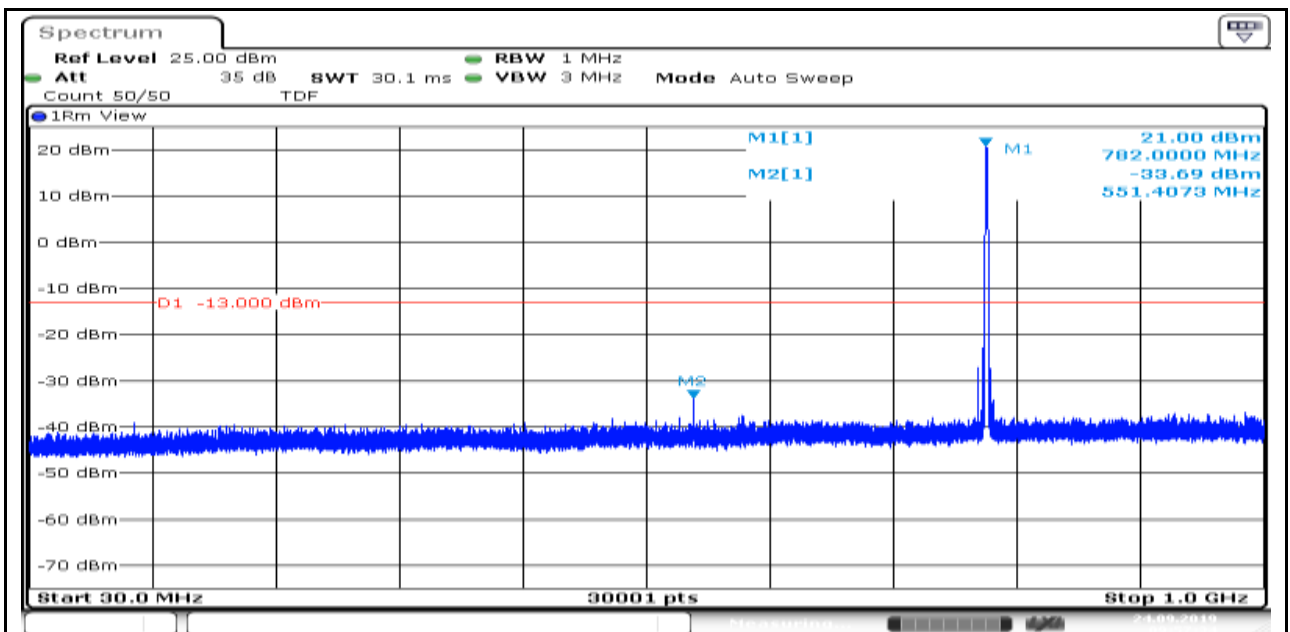
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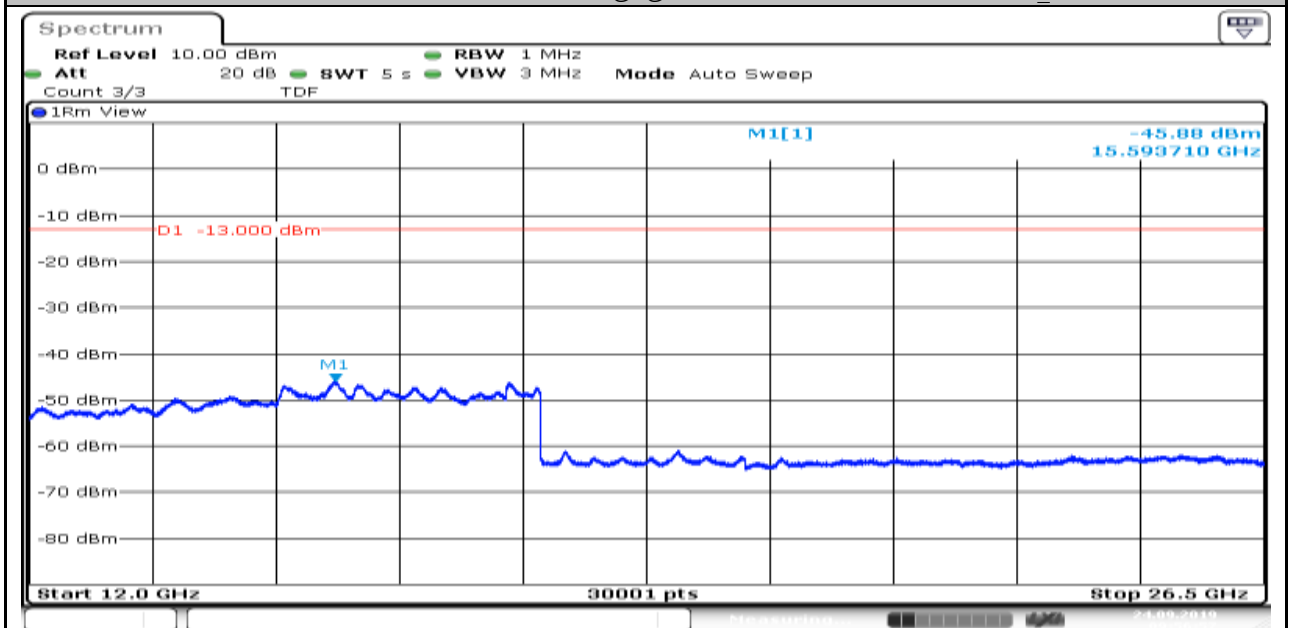
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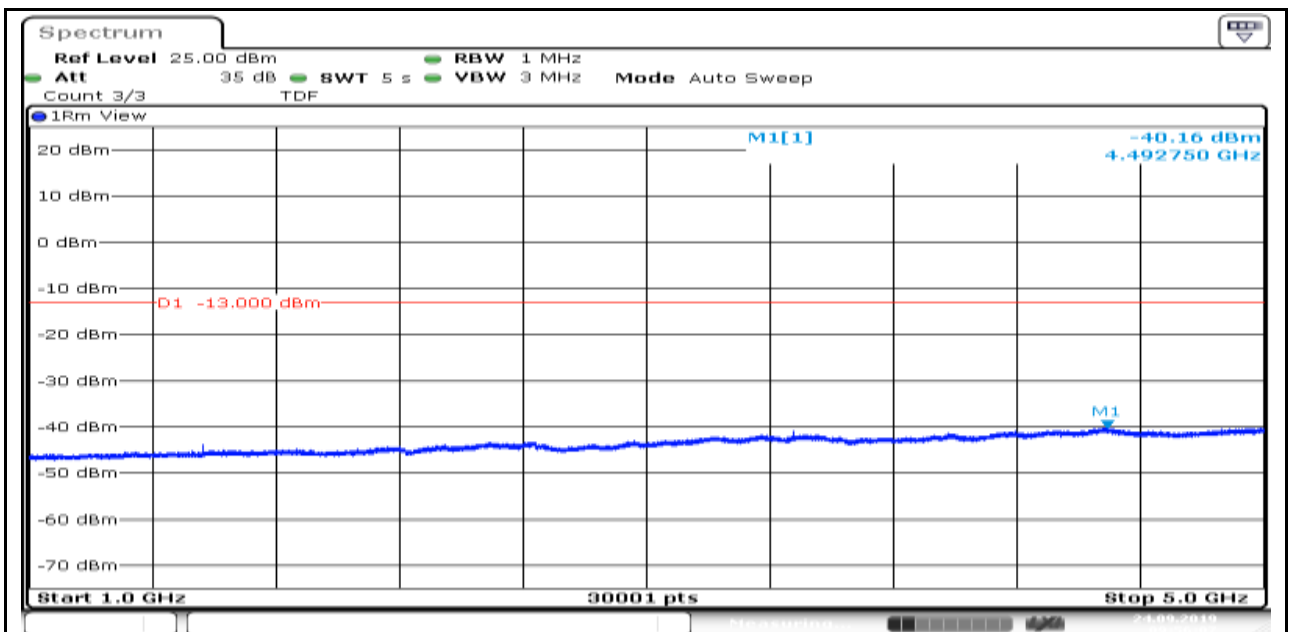
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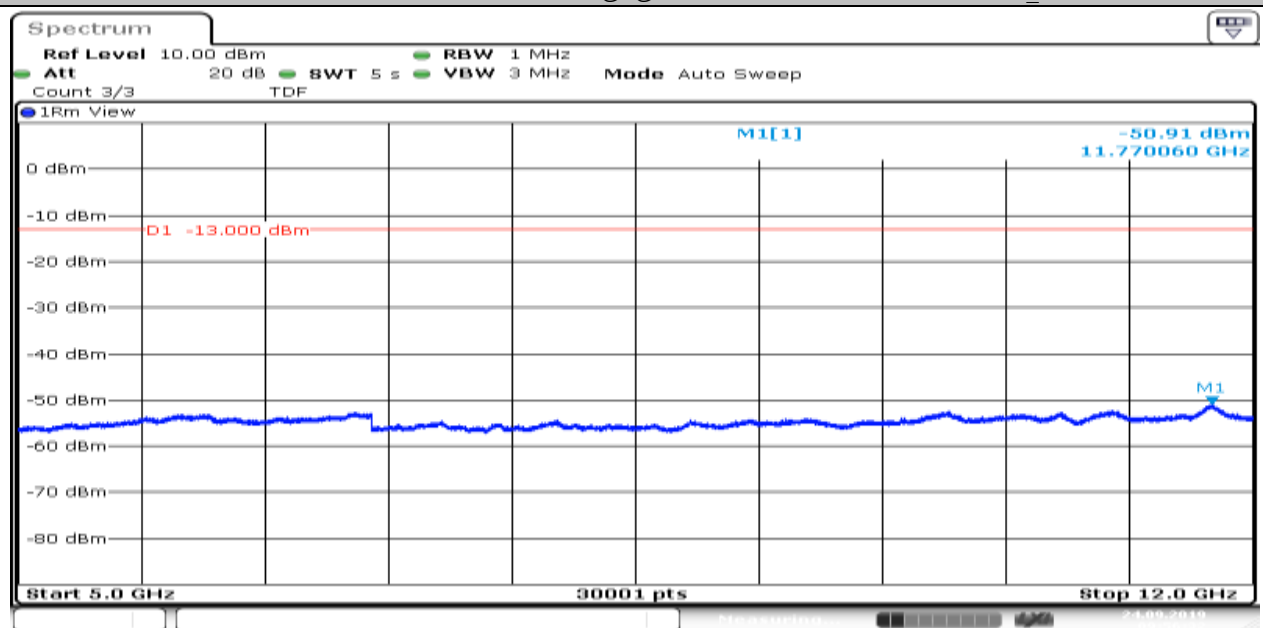
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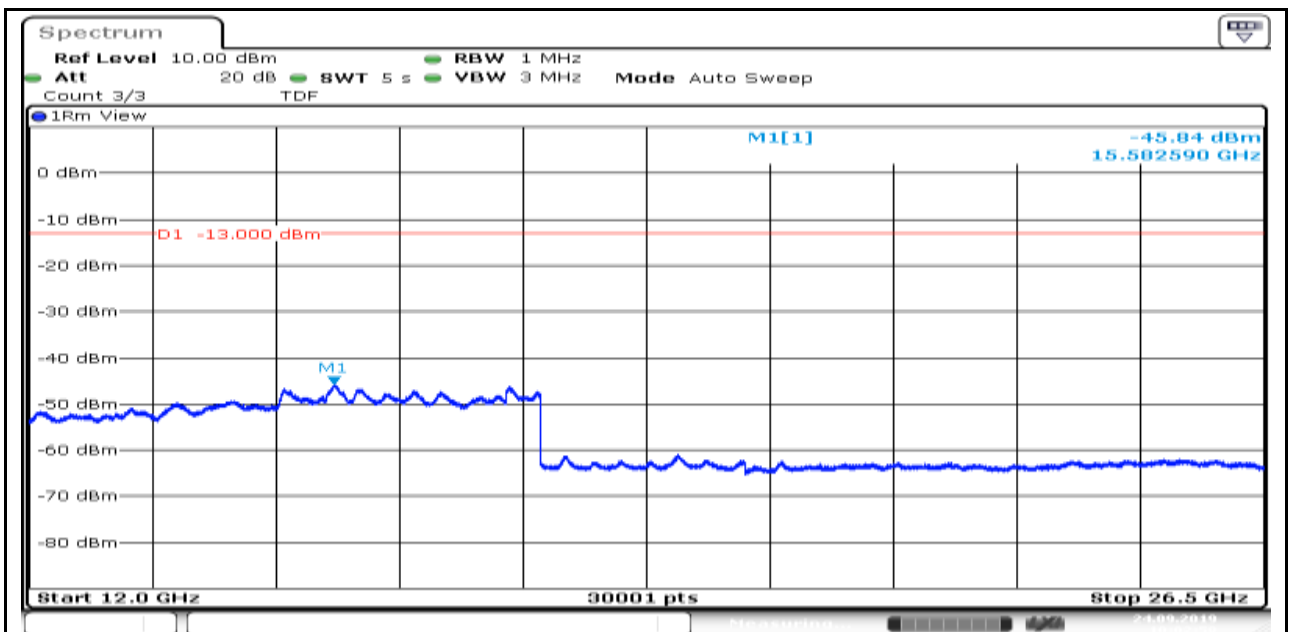
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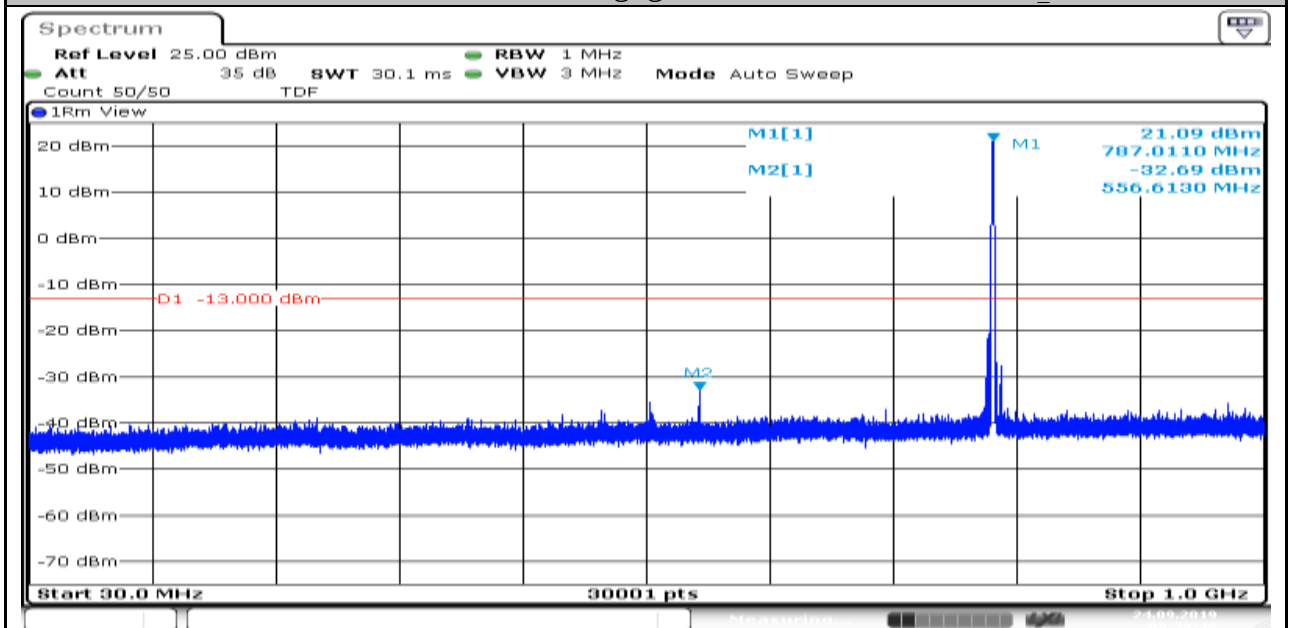
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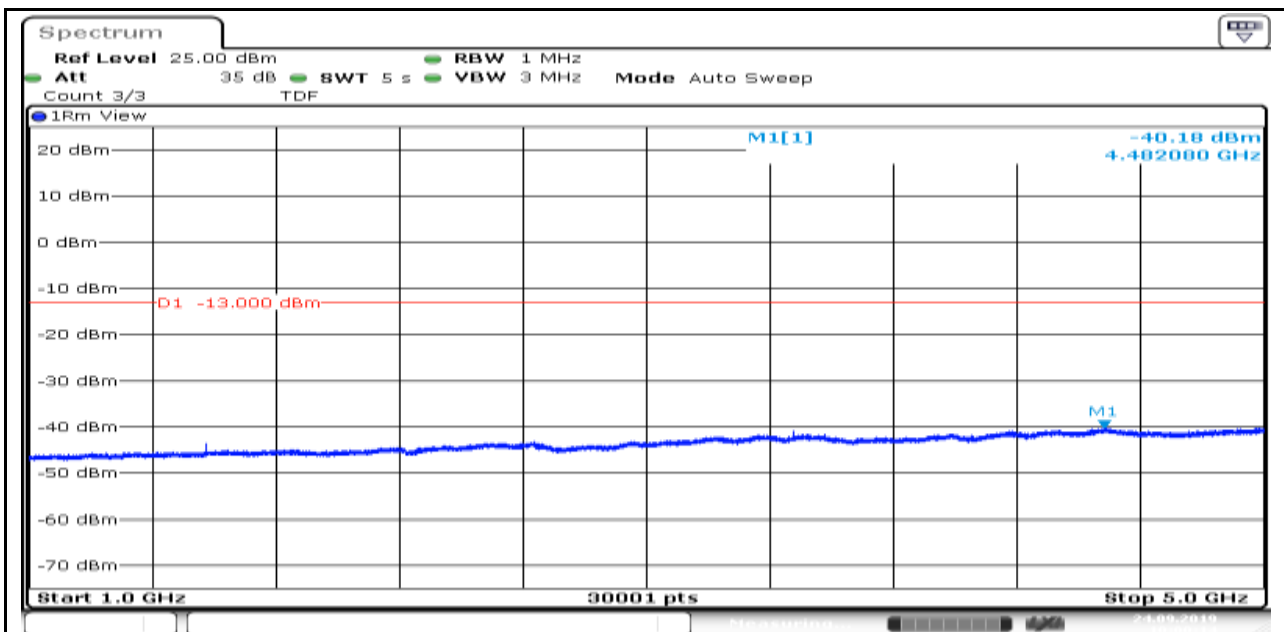
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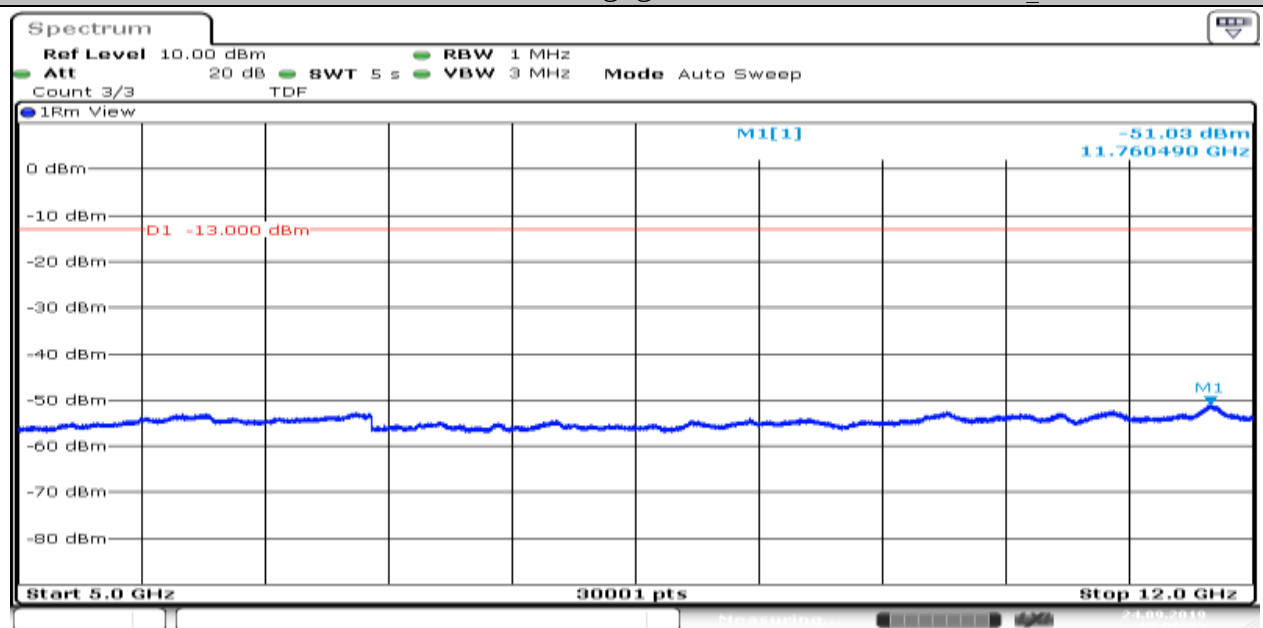
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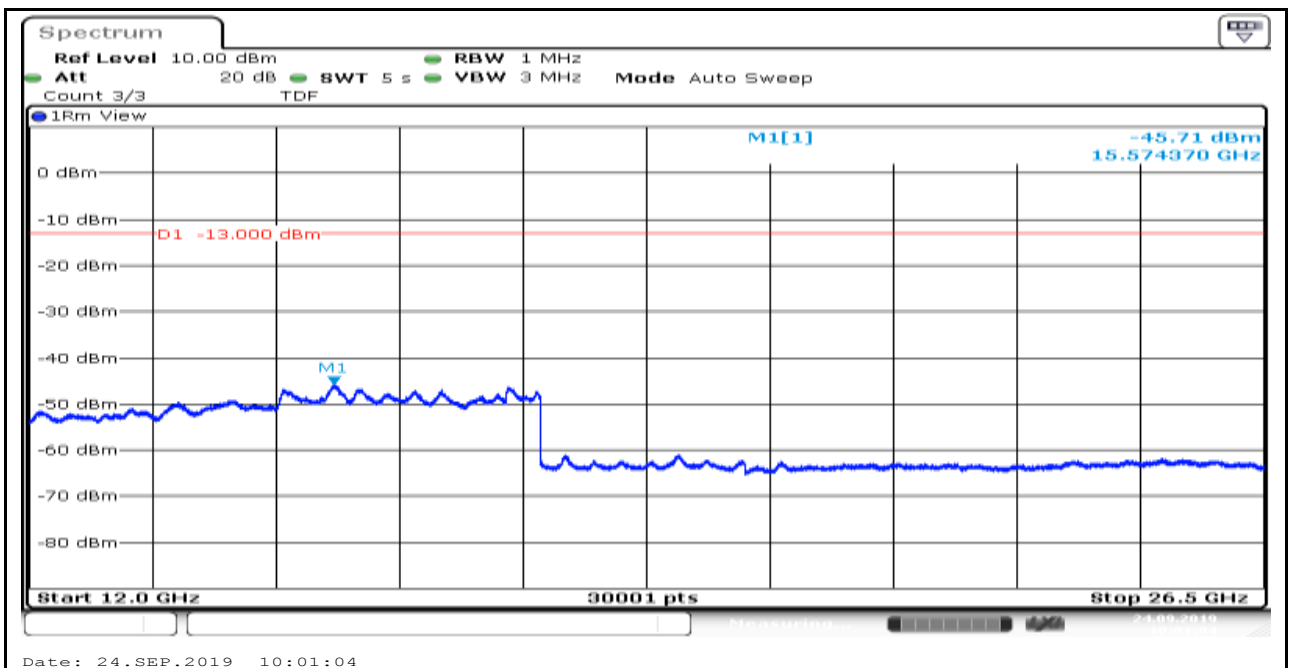
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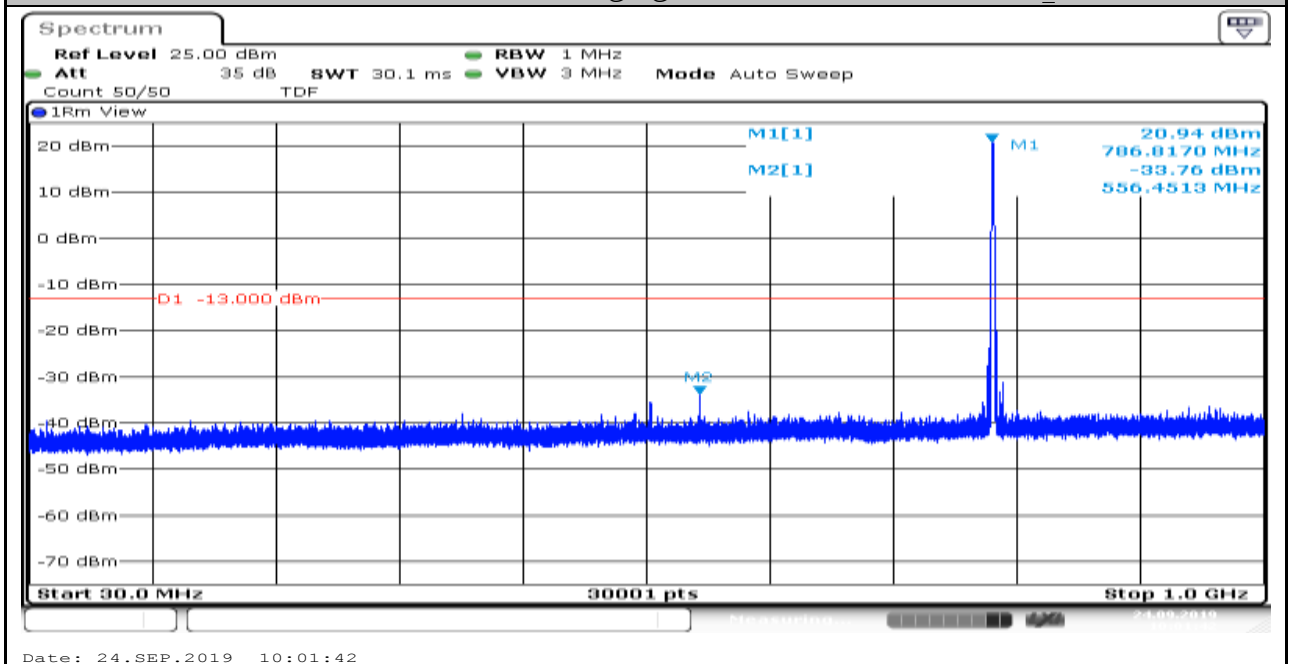
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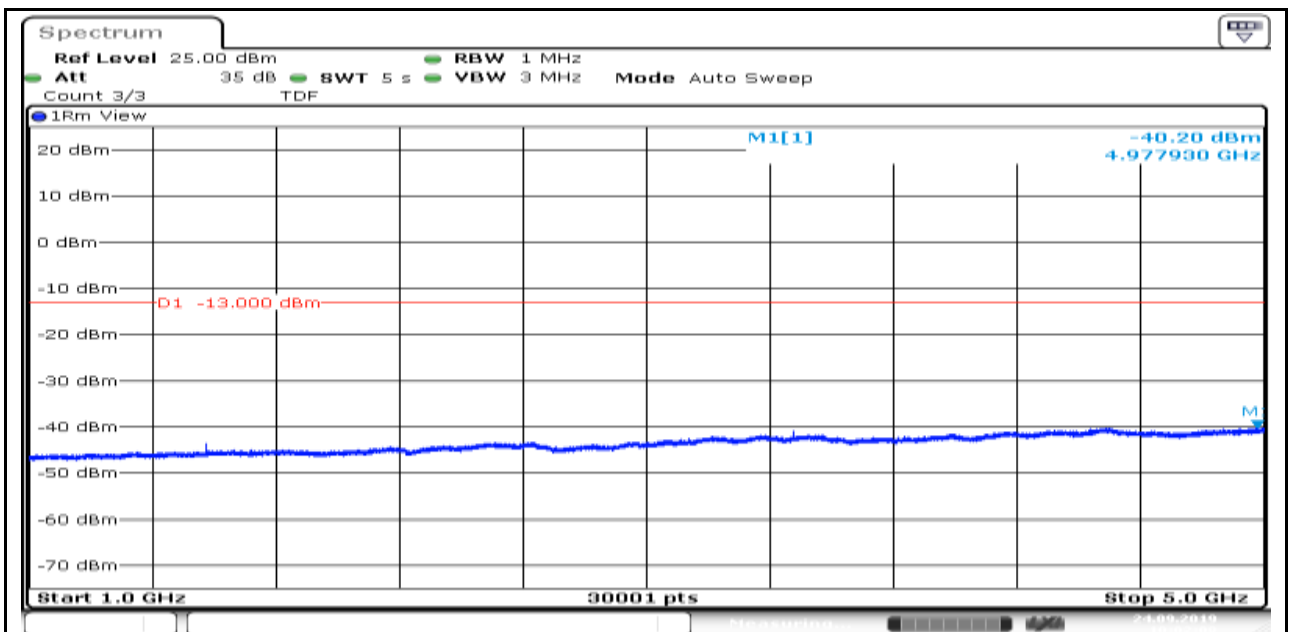
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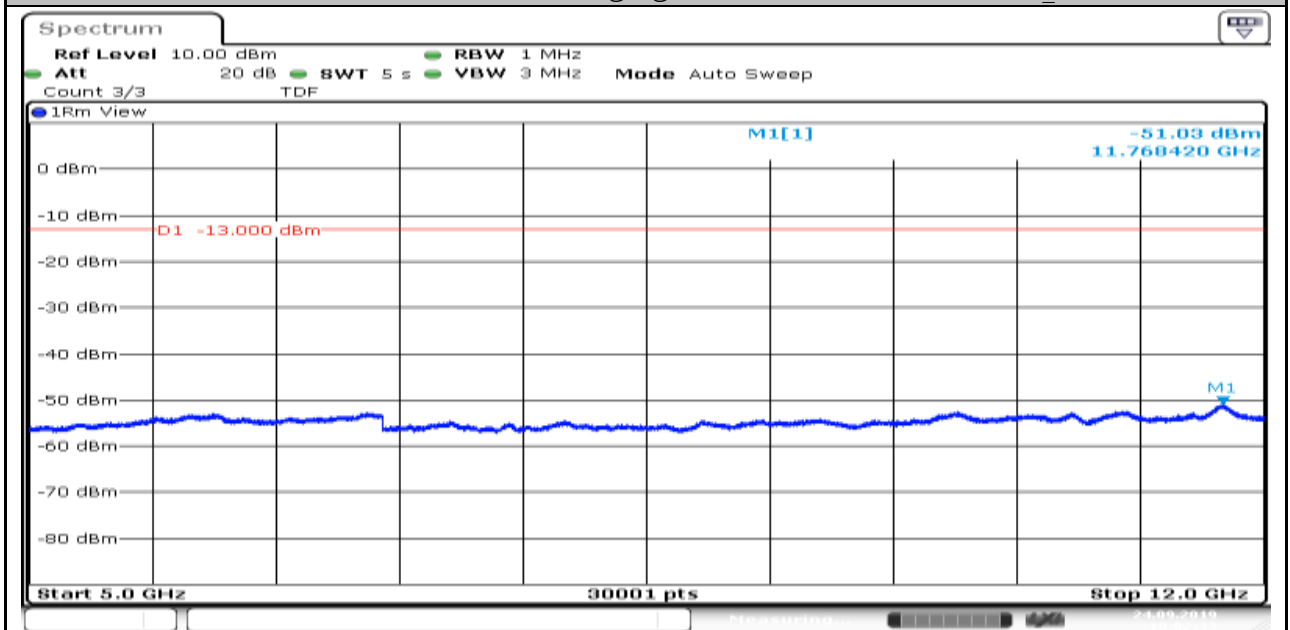
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Band13_Stand-Alone_NaN_BPSK_23279_1@11_15kHz_1000_5000_1000~5000MHz@-40.2dBm_-13_PASS_FCC_ME910G1\FCC_NB_IOT_eMTC_NVNT\Band13\Spurious emission at antenna terminals for category NB-Band13-Stand-Alone-NaN-23279-1@11@15kHz-BPSK-NTNV-20199248541.Gif_



Band13_Stand-Alone_NaN_BPSK_23279_1@11_15kHz_5000_12000_5000~12000MHz@-51.03dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band13\Spurious emission at antenna terminals for category NB-Band13-Stand-Alone-NaN-23279-1@11@15kHz-BPSK-NTNV-201992485426.Gif_



Appendix E.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
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	HV	NT	3.86	0.004936	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	LV	NT	-8.80	-0.011253	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	NT	-12.15	-0.015537	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	HV	NT	-8.93	-0.011419	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	LV	NT	-15.09	-0.019297	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	NT	-9.76	-0.012481	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	HV	NT	-9.66	-0.012353	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	LV	NT	-9.40	-0.012020	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	NT	-7.41	-0.009476	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	HV	NT	-12.32	-0.015754	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	LV	NT	-8.97	-0.011471	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	NT	7.94	0.010153	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	50	-12.76	-0.016317	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-30	-9.88	-0.012634	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	30	-11.30	-0.014450	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	20	-10.06	-0.012864	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	10	-12.06	-0.015422	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	0	-11.49	-0.014693	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-10	-9.68	-0.012379	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	50	-15.68	-0.020051	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-30	-8.85	-0.011317	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-30	-5.69	-0.007276	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	40	-11.00	-0.014066	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	30	-7.17	-0.009169	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	20	-6.77	-0.008657	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	10	-9.58	-0.012251	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	0	6.35	0.008120	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-10	-15.99	-0.020448	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-20	-12.13	-0.015512	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-20	-9.27	-0.011854	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	50	-10.16	-0.012992	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	40	-13.73	-0.017558	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	30	-8.07	-0.010320	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	20	-13.73	-0.017558	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	10	-8.18	-0.010460	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	0	-15.55	-0.019885	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-10	-8.73	-0.011164	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	40	-12.57	-0.016074	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-30	-7.42	-0.009488	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	50	-3.82	-0.004885	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	40	-4.21	-0.005384	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	30	-5.71	-0.007302	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	20	-7.15	-0.009143	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	10	-6.81	-0.008708	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	0	-13.90	-0.017775	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-10	-10.94	-0.013990	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-20	-7.21	-0.009220	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-20	-12.33	-0.015767	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-40	-18.20	-0.023274	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	60	-12.95	-0.016560	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	70	-10.51	-0.013440	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	80	-8.45	-0.010806	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	85	-11.96	-0.015294	±2.5	PASS

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Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-40	-4.39	-0.005614	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	60	-7.70	-0.009847	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	70	-9.58	-0.012251	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-40	-13.86	-0.017724	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	85	-12.12	-0.015499	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	85	-6.51	-0.008325	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	60	-20.66	-0.026419	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	70	-21.09	-0.026969	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	80	-6.64	-0.008491	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	85	-10.63	-0.013593	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-40	9.40	0.012020	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	60	-7.62	-0.009744	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	70	-13.10	-0.016752	±2.5	PASS

Appendix F: Test Results of Band 25 for NB-IoT operation

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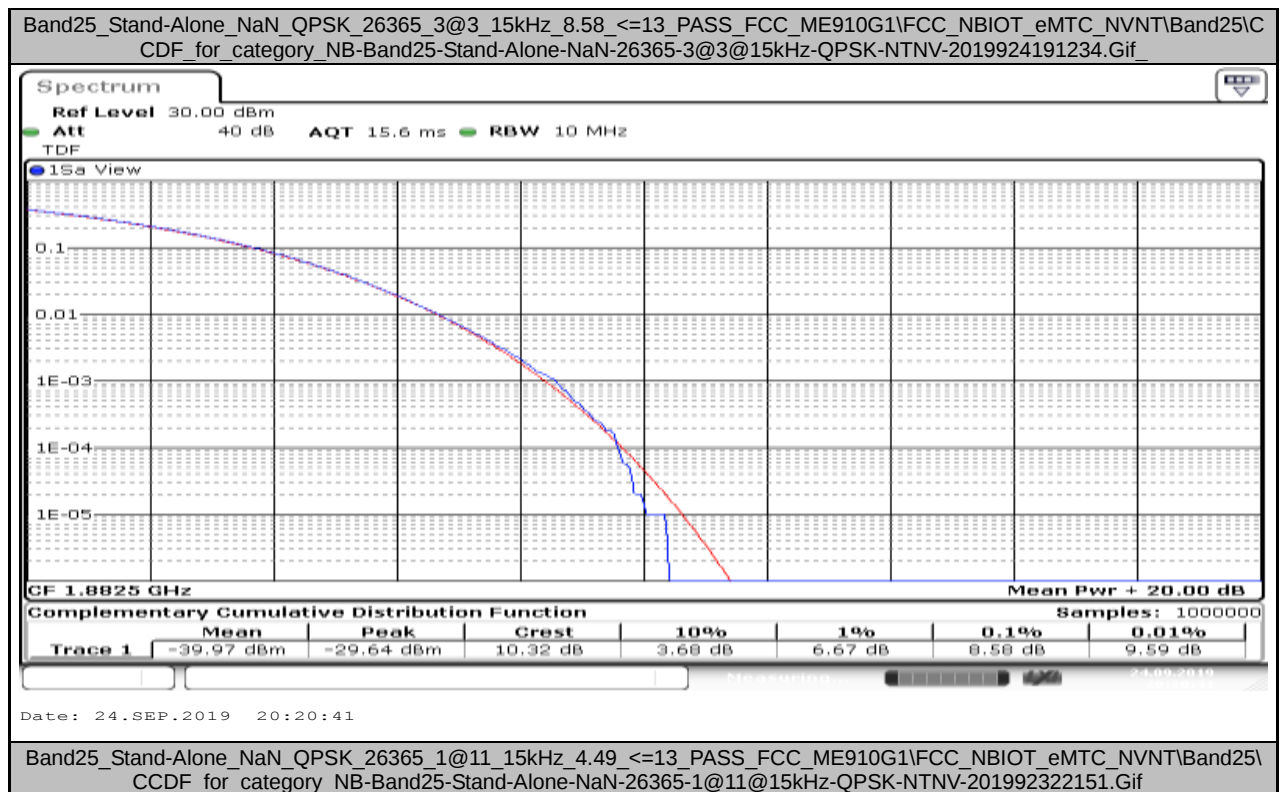
Appendix F.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for NB Test Result

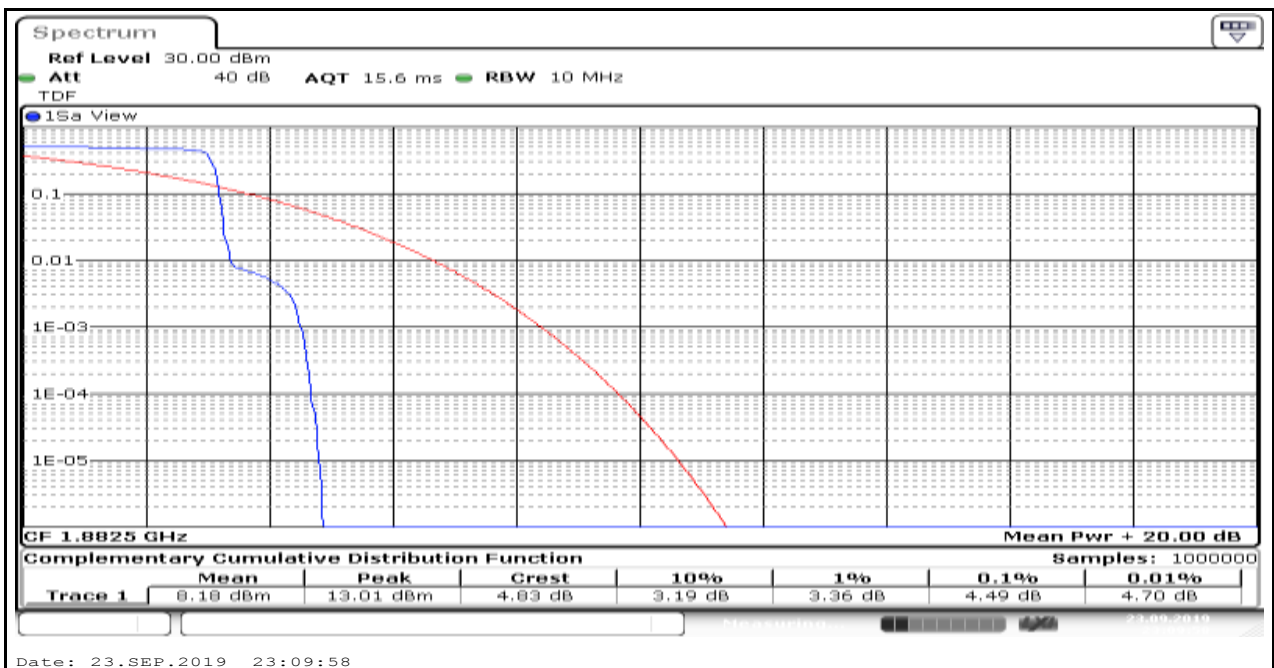
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	EIRP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band25	Stand-Alone	NaN	QPSK	26041	1@11	15kHz	10.84	12.98	0.020	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	10.83	12.97	0.020	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	15kHz	10.89	13.03	0.020	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	10.88	13.02	0.020	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	3@3	15kHz	10.83	12.97	0.020	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@0	3.75kHz	19.3	21.44	0.139	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	3@3	15kHz	19.9	22.04	0.160	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@11	15kHz	19.67	21.81	0.152	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@0	15kHz	19.74	21.88	0.154	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@47	3.75kHz	19.26	21.4	0.138	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	19.45	21.59	0.144	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	3@3	15kHz	20.02	22.16	0.164	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	19.4	21.54	0.143	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	15kHz	19.91	22.05	0.160	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@11	15kHz	19.94	22.08	0.161	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@11	15kHz	20.17	22.31	0.170	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@0	3.75kHz	20.21	22.35	0.172	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@0	15kHz	20.25	22.39	0.173	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@47	3.75kHz	20.16	22.3	0.170	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	3@3	15kHz	20.17	22.31	0.170	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	11.02	13.16	0.021	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	11.08	13.22	0.021	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@11	15kHz	11.1	13.24	0.021	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	3@3	15kHz	11.09	13.23	0.021	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	15kHz	11.14	13.28	0.021	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	10.78	12.92	0.020	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	10.56	12.7	0.019	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@47	3.75kHz	10.84	12.98	0.020	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	3@3	15kHz	10.72	12.86	0.019	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	3.75kHz	10.81	12.95	0.020	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@47	3.75kHz	19.18	21.32	0.136	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@0	3.75kHz	19.25	21.39	0.138	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@0	15kHz	19.74	21.88	0.154	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	3@3	15kHz	19.9	22.04	0.160	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@11	15kHz	19.7	21.84	0.153	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	19.81	21.95	0.157	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	19.75	21.89	0.155	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	3@3	15kHz	20.02	22.16	0.164	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	3.75kHz	19.36	21.5	0.141	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@47	3.75kHz	19.42	21.56	0.143	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@47	3.75kHz	20.08	22.22	0.167	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	3@3	15kHz	20.16	22.3	0.170	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@11	15kHz	20.06	22.2	0.166	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@0	15kHz	20.18	22.32	0.171	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@0	3.75kHz	20.03	22.17	0.165	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	3@3	15kHz	11.19	13.33	0.022	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	11.11	13.25	0.021	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	3.75kHz	11.01	13.15	0.021	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	11.09	13.23	0.021	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@47	3.75kHz	11.03	13.17	0.021	2	PASS

Appendix F.2: Peak-to-Average Ratio(CCDF) for NB Test Result

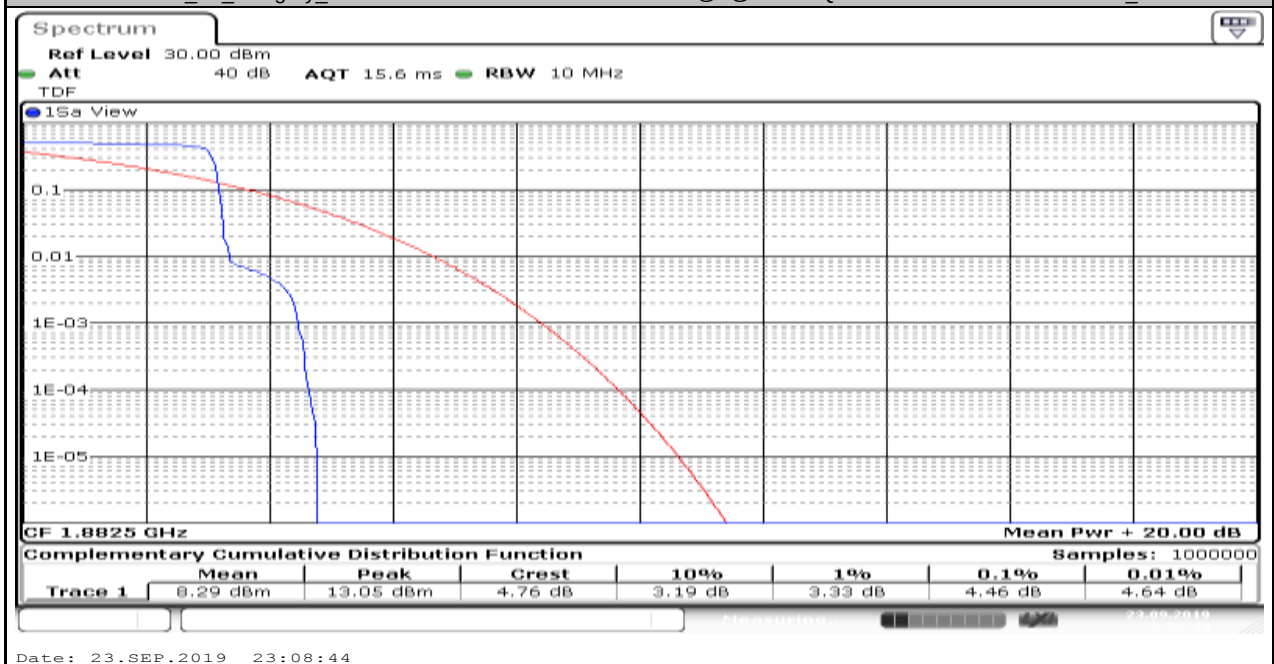
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band25	Stand-Alone	NaN	QPSK	26365	3@3	15kHz	8.58	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@11	15kHz	4.49	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	15kHz	4.46	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	1.65	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	2.96	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	8.55	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	3@3	15kHz	9.65	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	3.68	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@47	3.75kHz	2.09	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	3.75kHz	8.49	<=13	PASS

Test Graphs

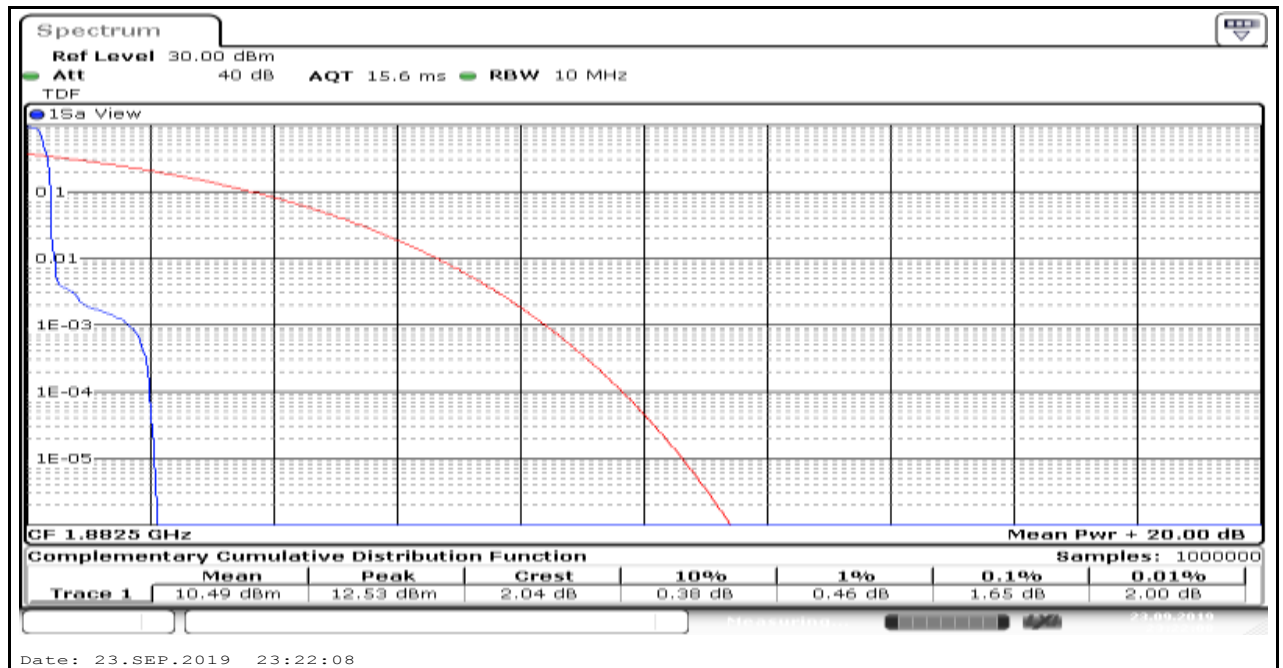




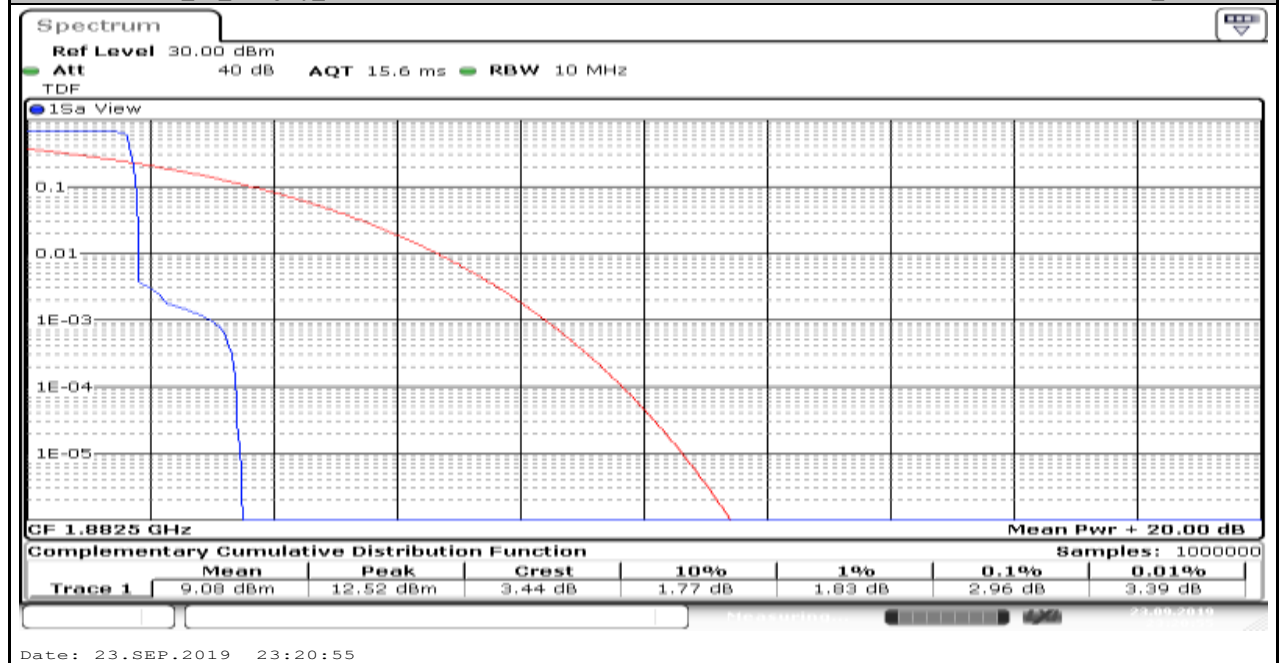
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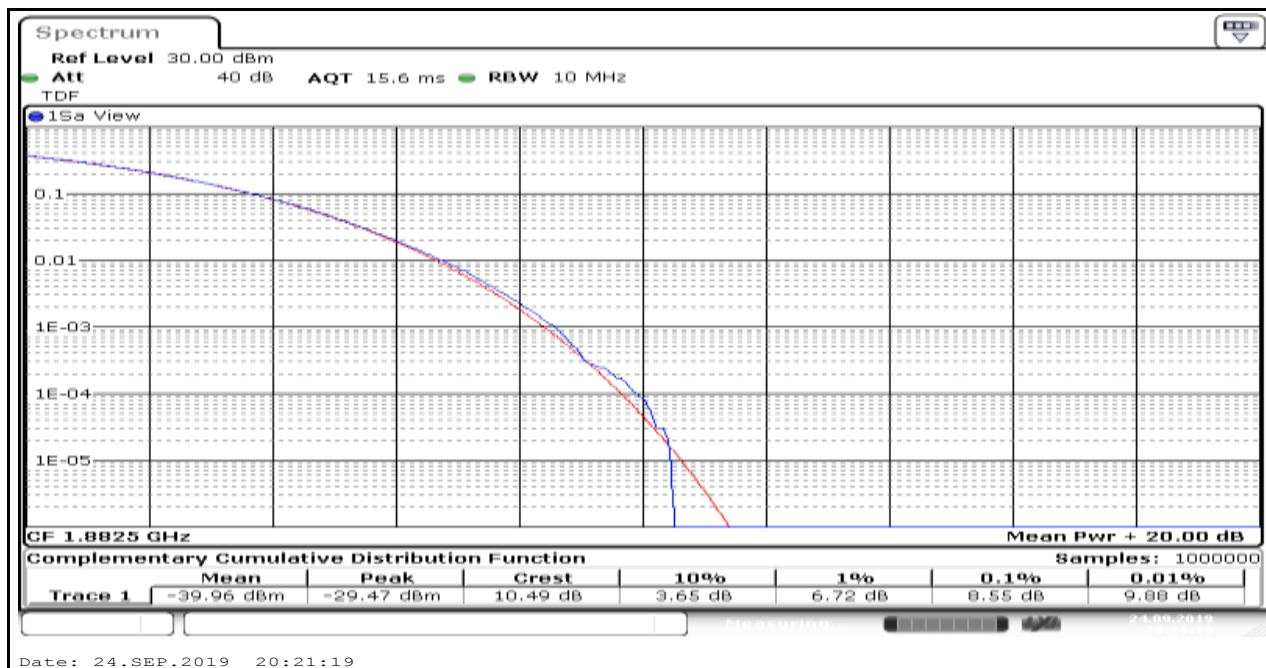
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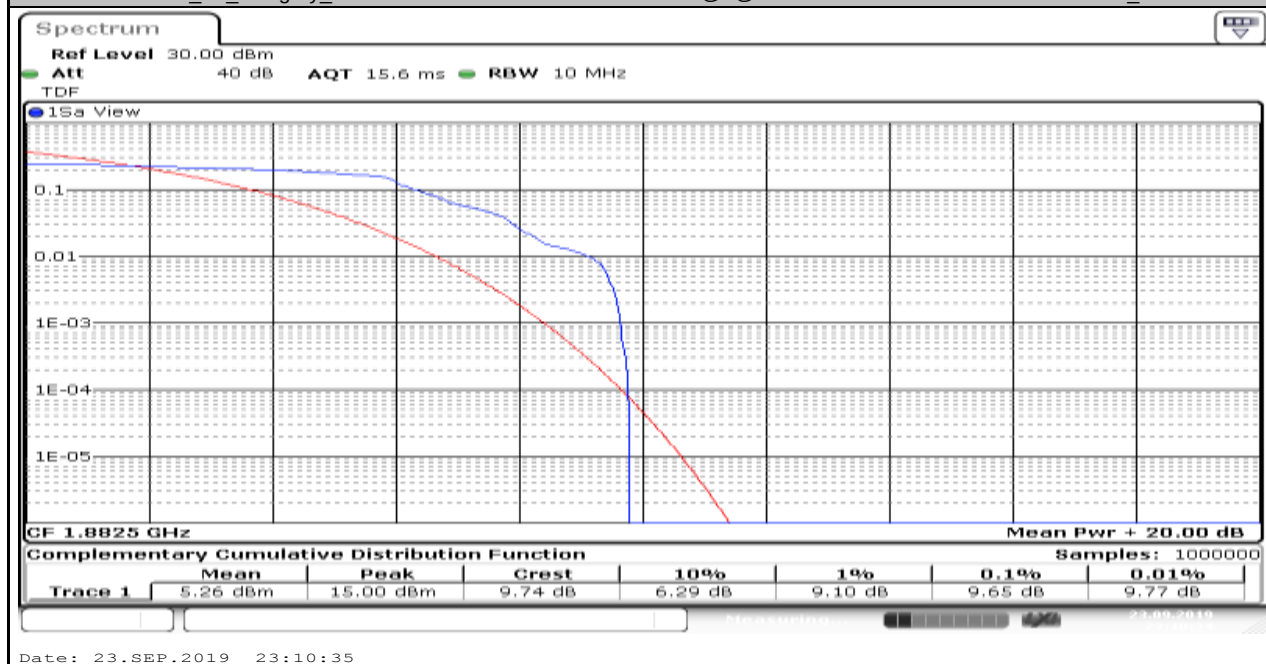
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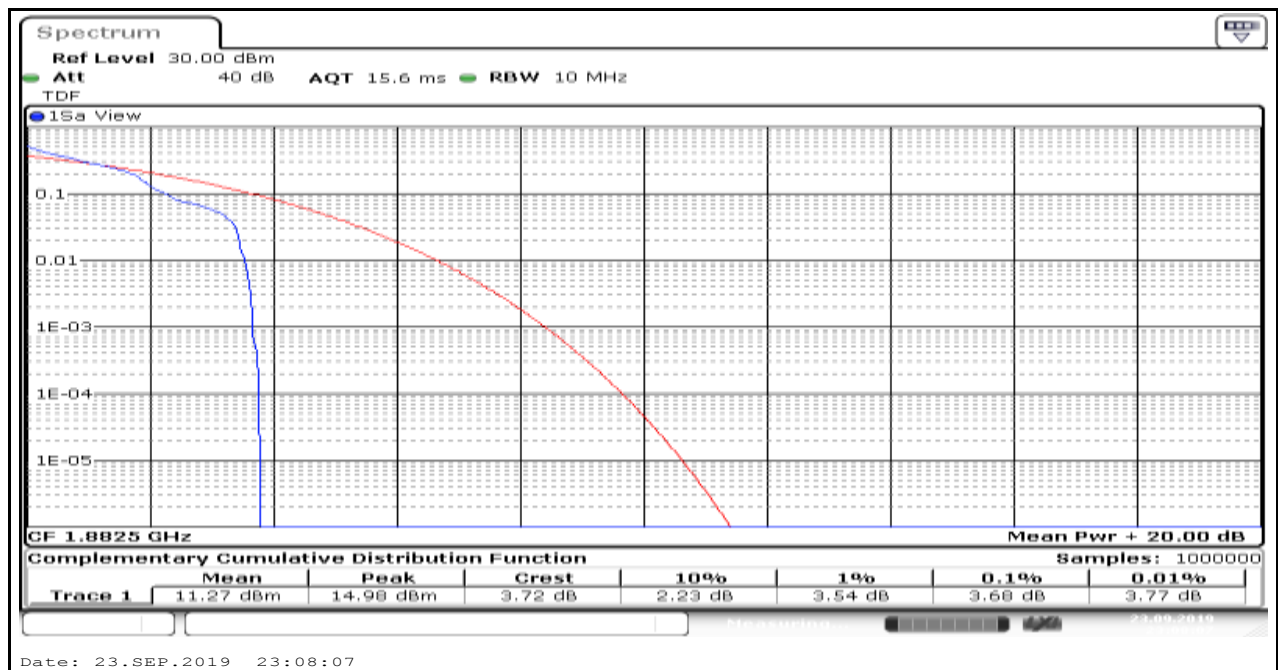
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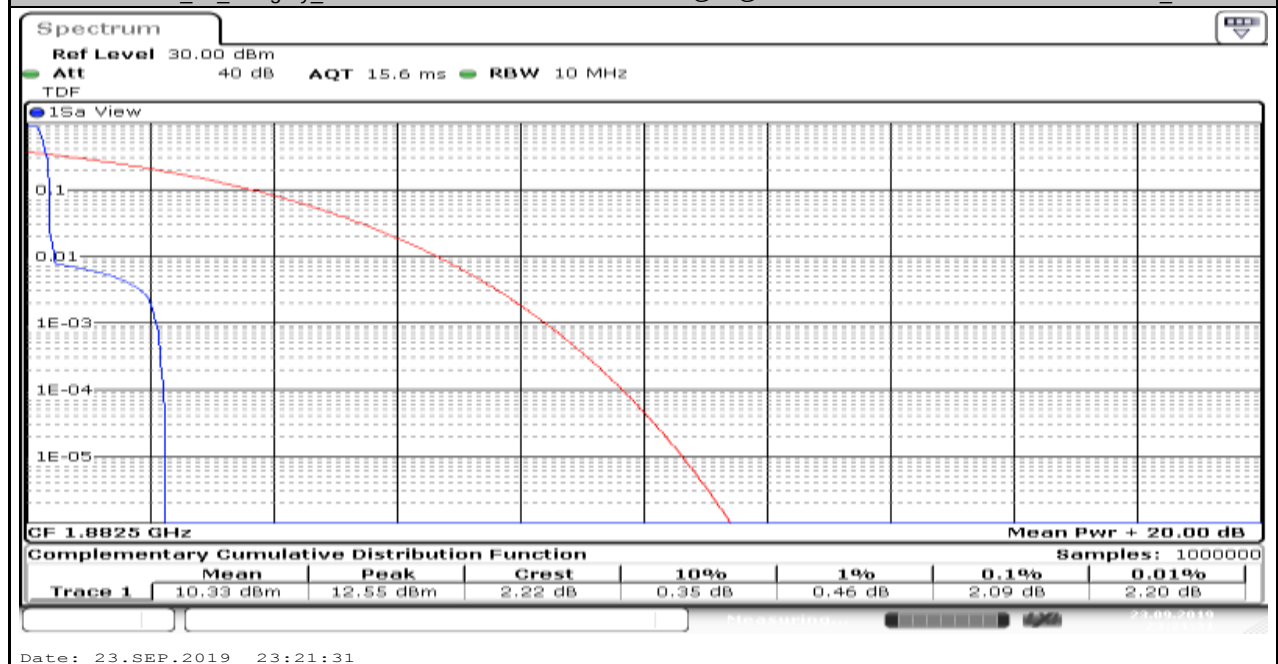
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Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_3.68_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band25\CDF_for_category_NB-Band25-Stand-Alone-NaN-26365-1@0@15kHz-BPSK-NTNV-20199232201.Gif_

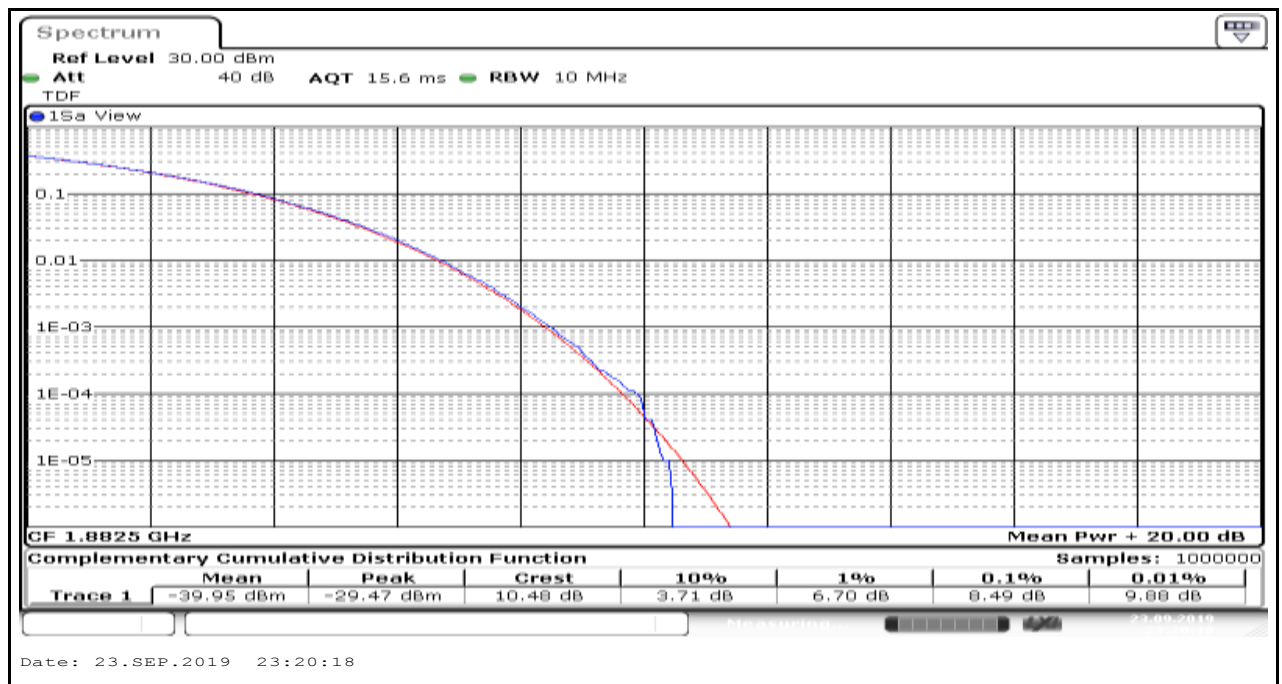


Band25_Stand-Alone_NaN_BPSK_26365_1@47_3.75kHz_2.09_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band25\CCDF_for_category_NB-Band25-Stand-Alone-NaN-26365-1@47@3.75kHz-BPSK-NTNV-2019923221325.Gif_



Band25_Stand-Alone_NaN_BPSK_26365_1@0_3.75kHz_8.49_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band25\CCDF_for_category_NB-Band25-Stand-Alone-NaN-26365-1@0@3.75kHz-BPSK-NTNV-2019923221211.Gif_

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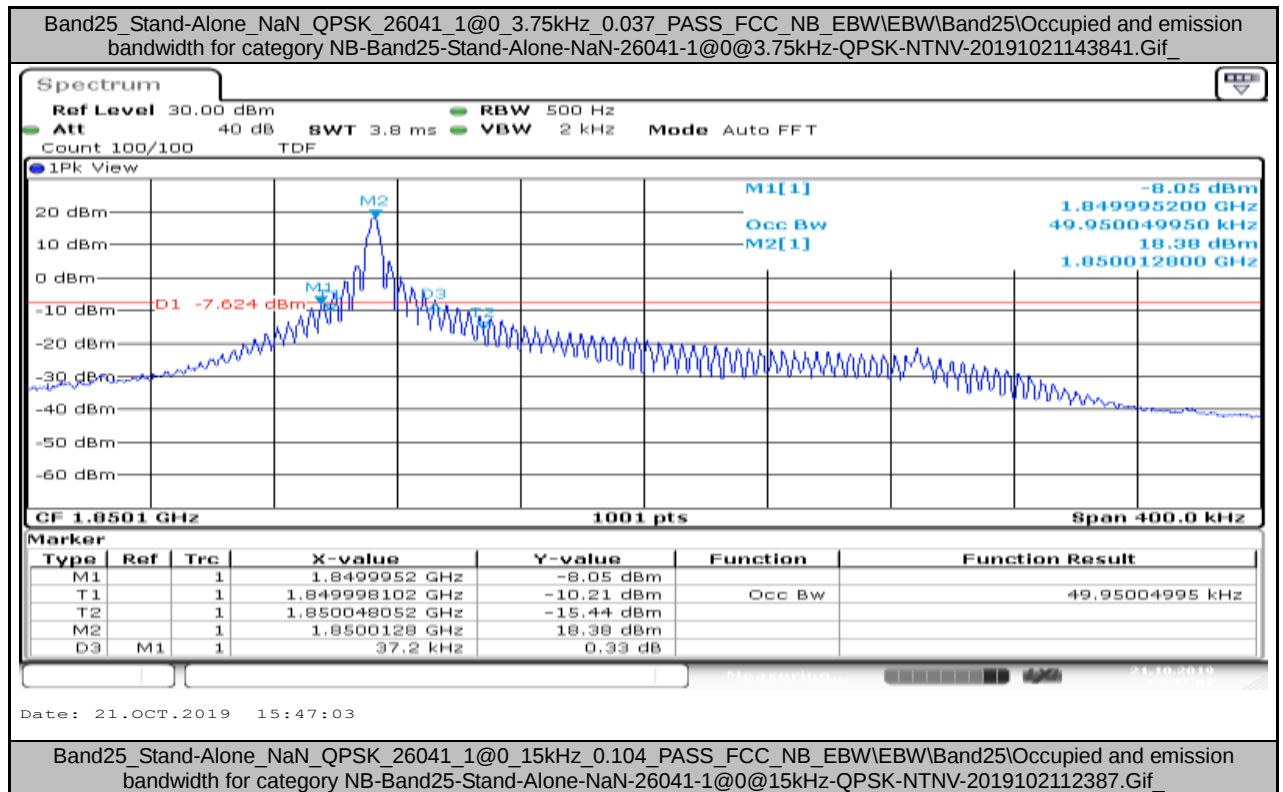


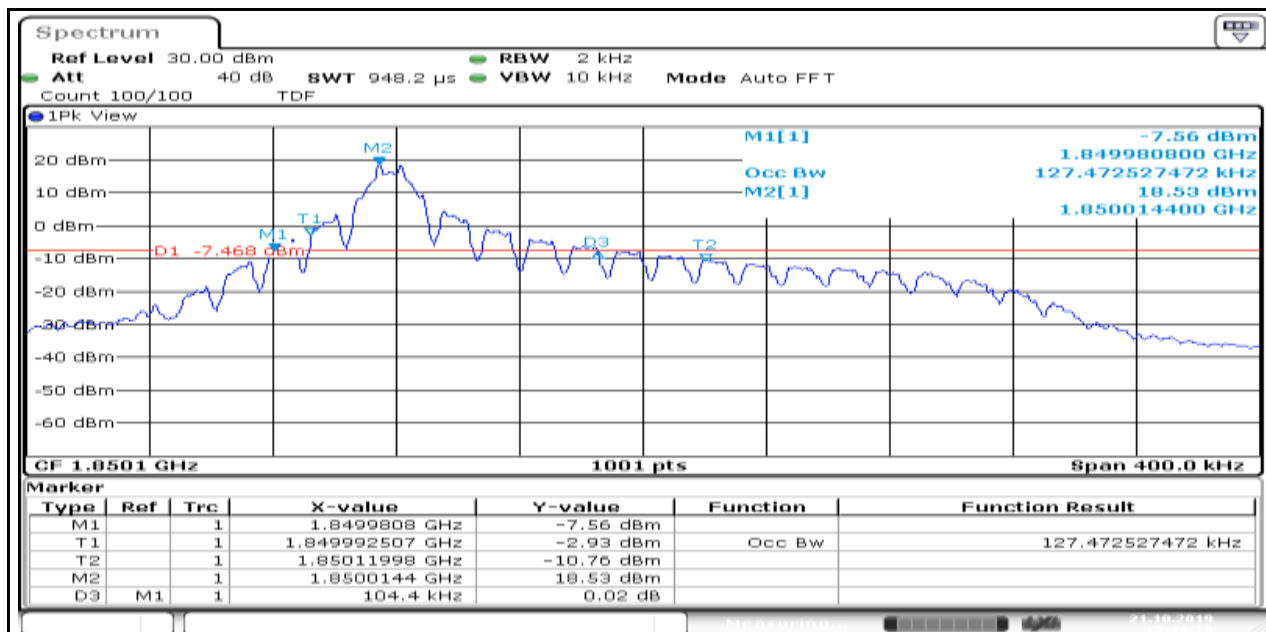
Appendix F.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

Test Result

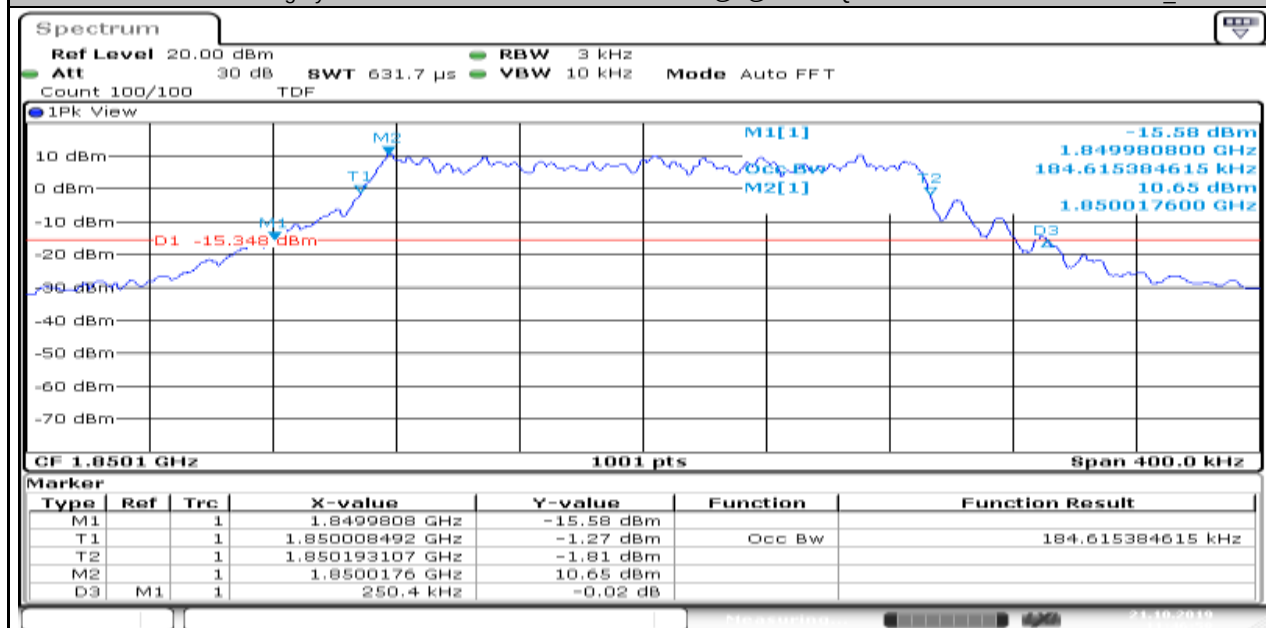
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	0.037	0.050	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	15kHz	0.104	0.127	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	0.250	0.185	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	0.037	0.049	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	15kHz	0.104	0.127	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	0.251	0.185	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	0.037	0.050	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	15kHz	0.106	0.127	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	0.250	0.185	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	3.75kHz	0.032	0.055	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	0.104	0.127	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	3.75kHz	0.032	0.055	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	0.104	0.127	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	3.75kHz	0.032	0.056	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	0.104	0.128	PASS

Test Graphs

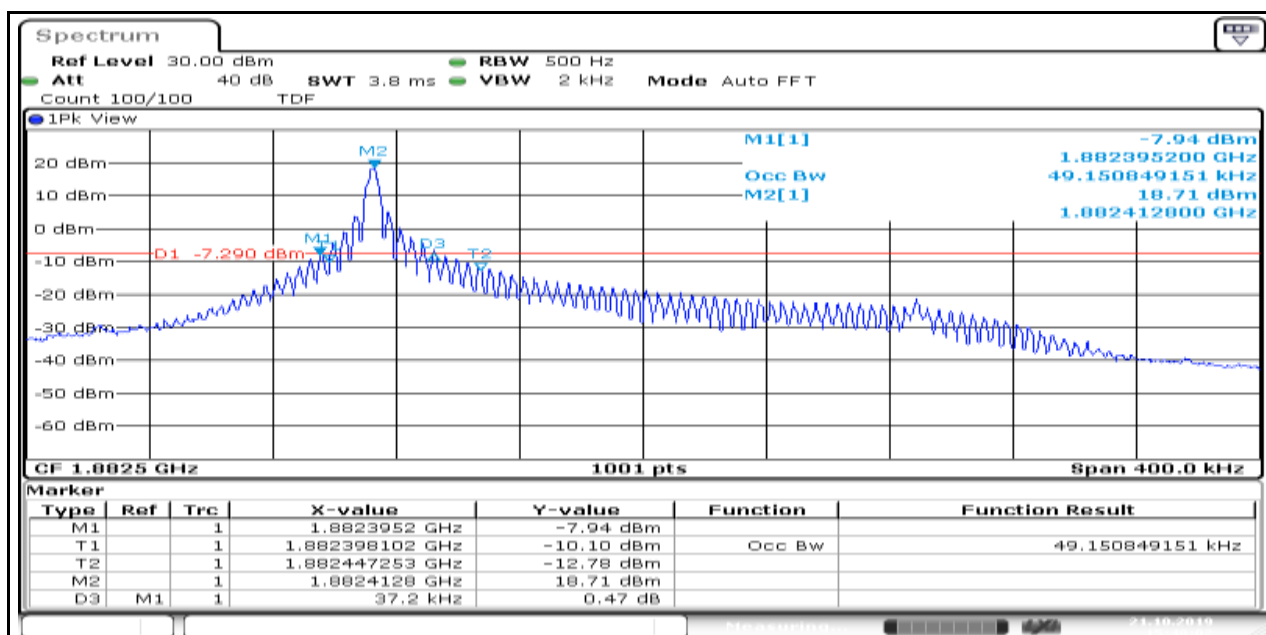




Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26041-12@0@15kHz-QPSK-NTNV-20191021103836.Gif_

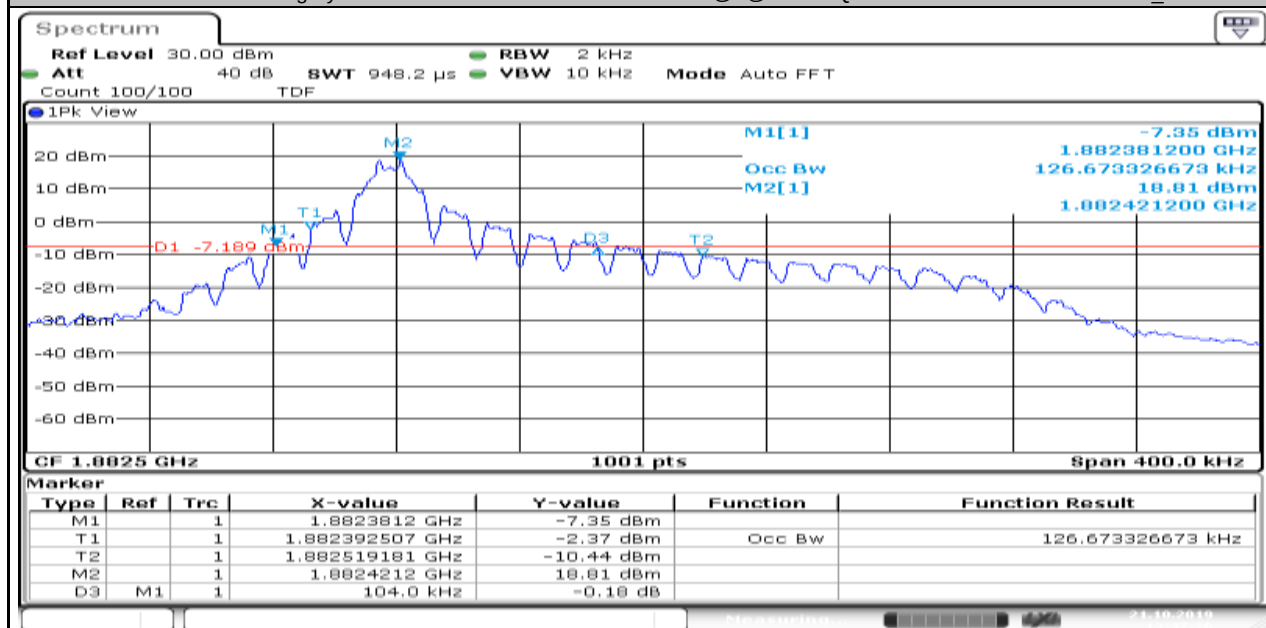


Band25_Stand-Alone_NaN_QPSK_26365_1@0_3.75kHz_0.037_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26365-1@0@3.75kHz-QPSK-NTNV-20191021143940.Gif_



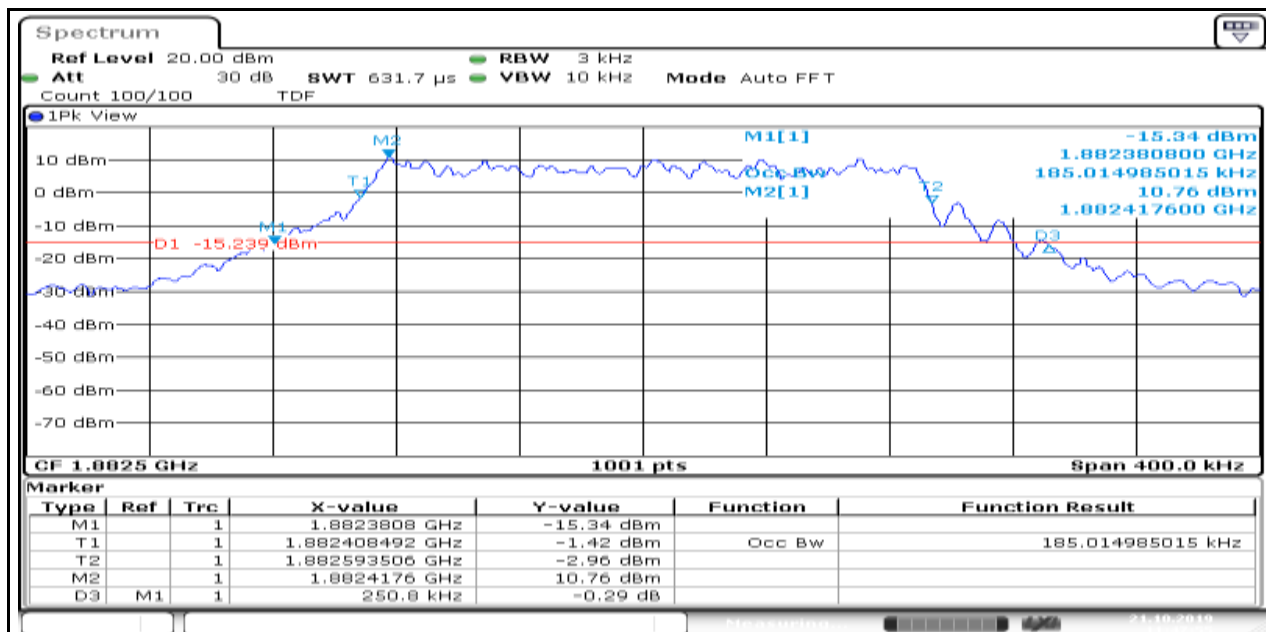
Date: 21.OCT.2019 15:48:02

Band25_Stand-Alone_NaN_QPSK_26365_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26365-1@0@15kHz-QPSK-NTNV-2019102112395.Gif_

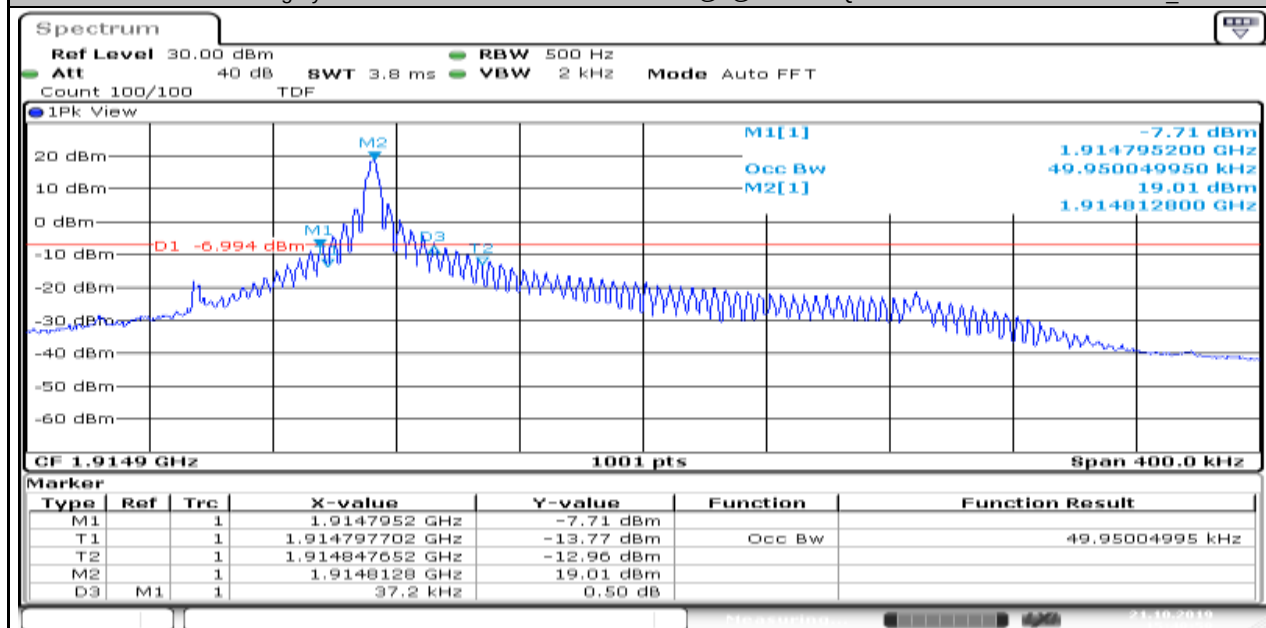


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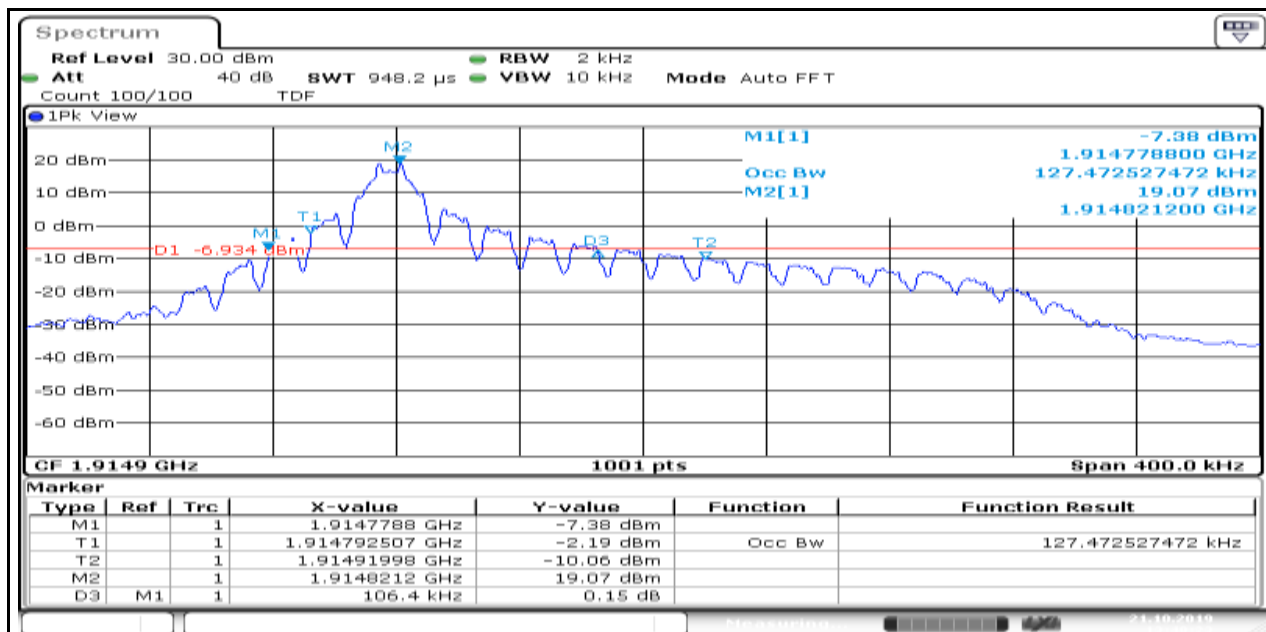
Band25_Stand-Alone_NaN_QPSK_26365_12@0_15kHz_0.251_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26365-12@0@15kHz-QPSK-NTNV-20191021103934.Gif_



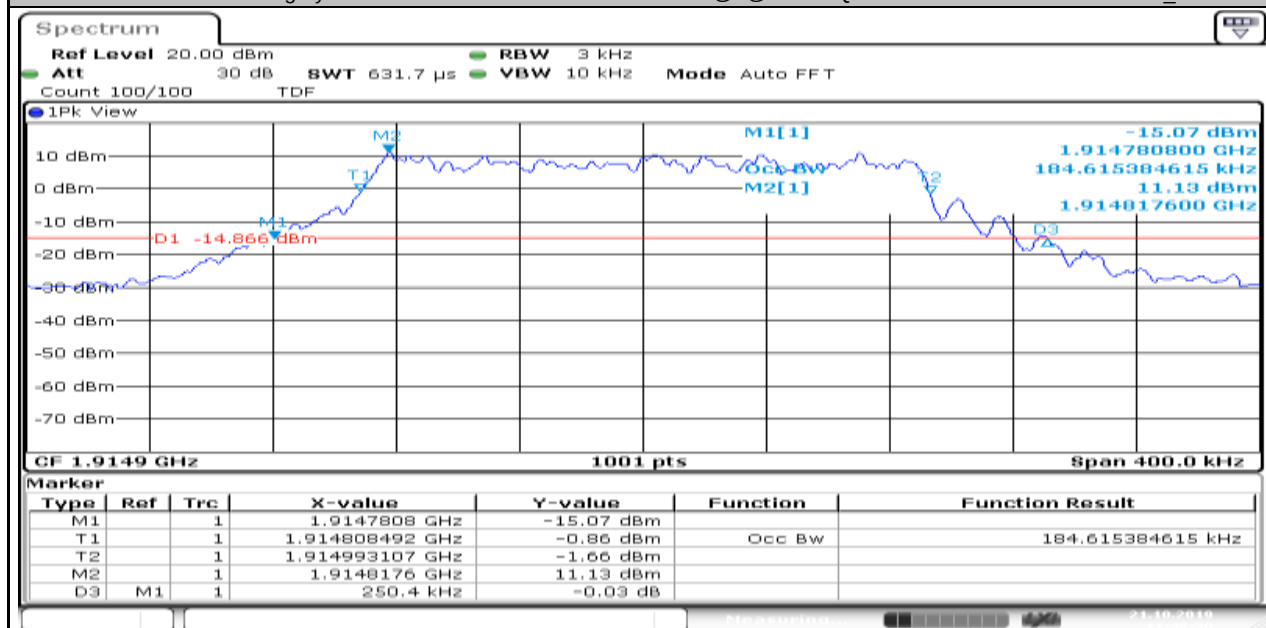
Band25_Stand-Alone_NaN_QPSK_26689_1@0_3.75kHz_0.037_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26689-1@0@3.75kHz-QPSK-NTNV-20191021144036.Gif_



Band25_Stand-Alone_NaN_QPSK_26689_1@0_15kHz_0.106_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26689-1@0@15kHz-QPSK-NTNV-2019102112402.Gif_

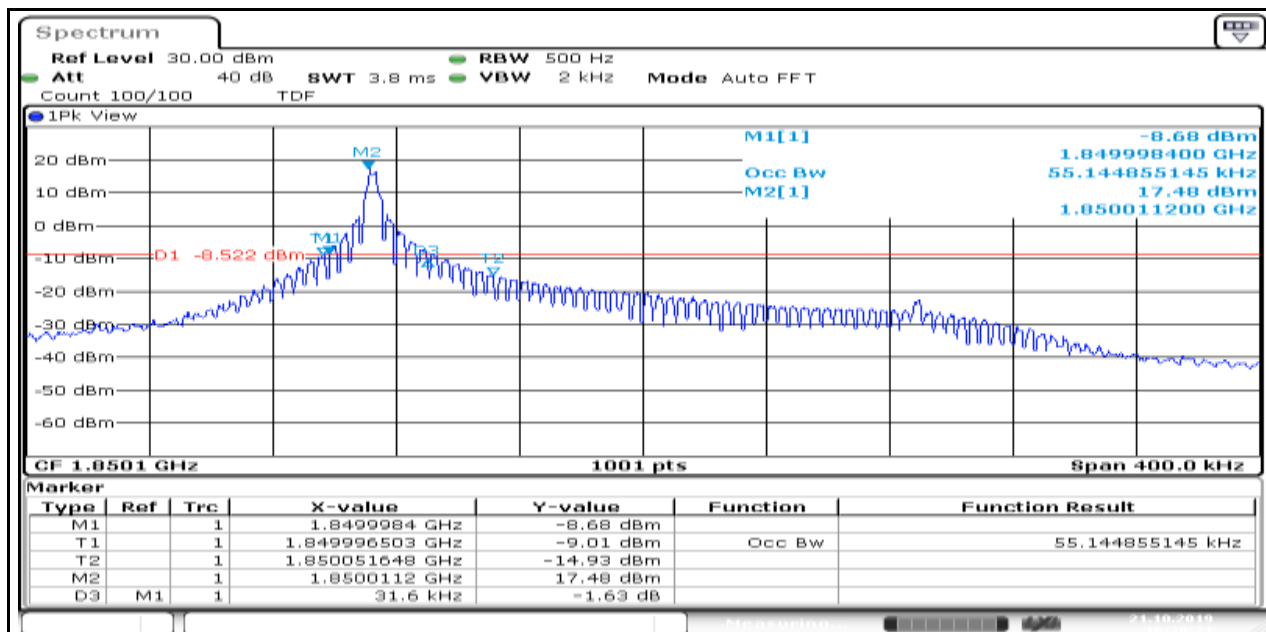


Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26689-12@0@15kHz-QPSK-NTNV-20191021104028.Gif_

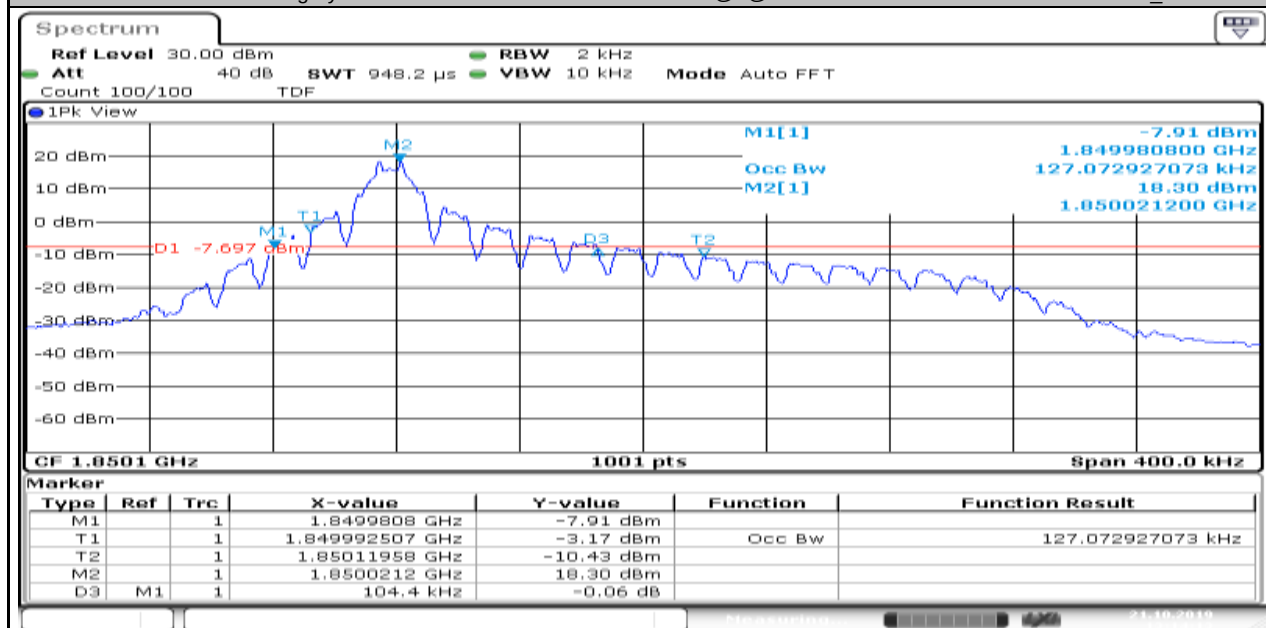


Band25_Stand-Alone_NaN_BPSK_26041_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26041-1@0@3.75kHz-BPSK-NTNV-20191021152159.Gif_

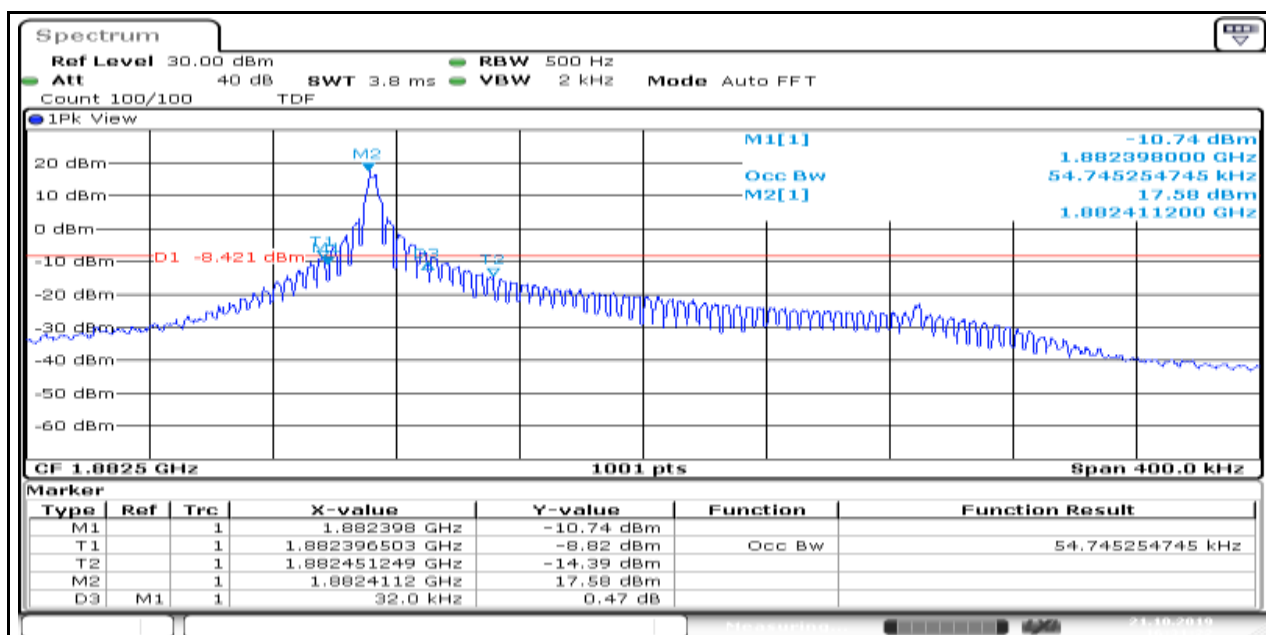
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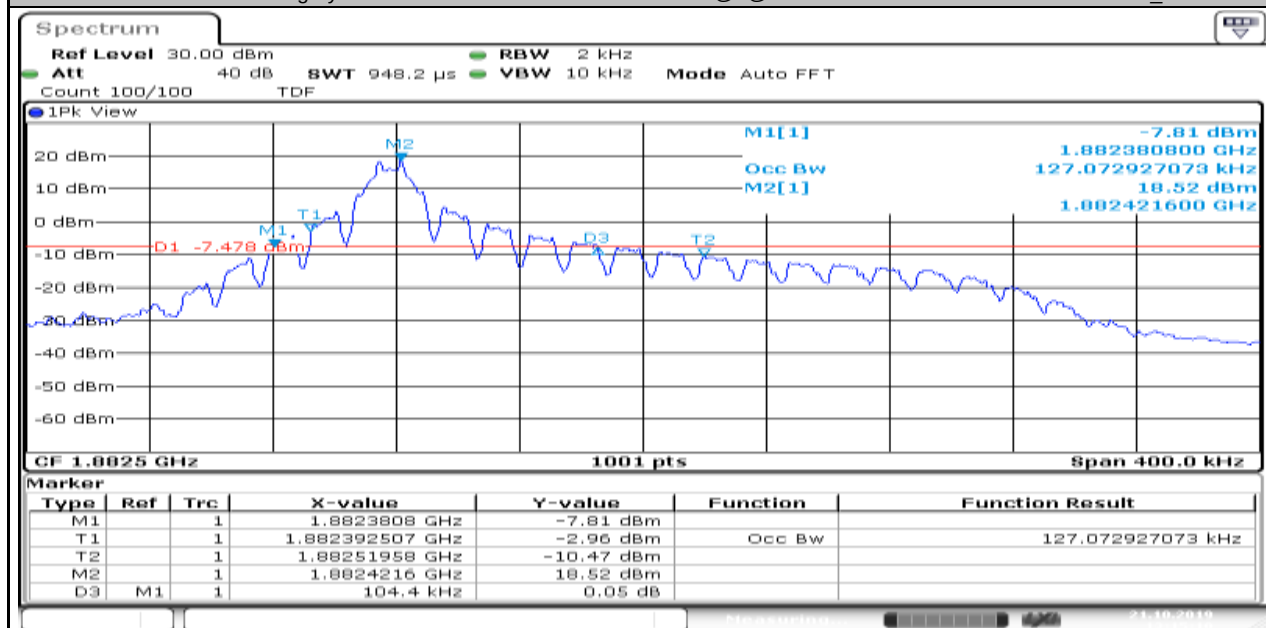
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26041-1@0@15kHz-BPSK-NTNV-2019102112552.Gif_



Band25_Stand-Alone_NaN_BPSK_26365_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26365-1@0@3.75kHz-BPSK-NTNV-2019102115230.Gif_

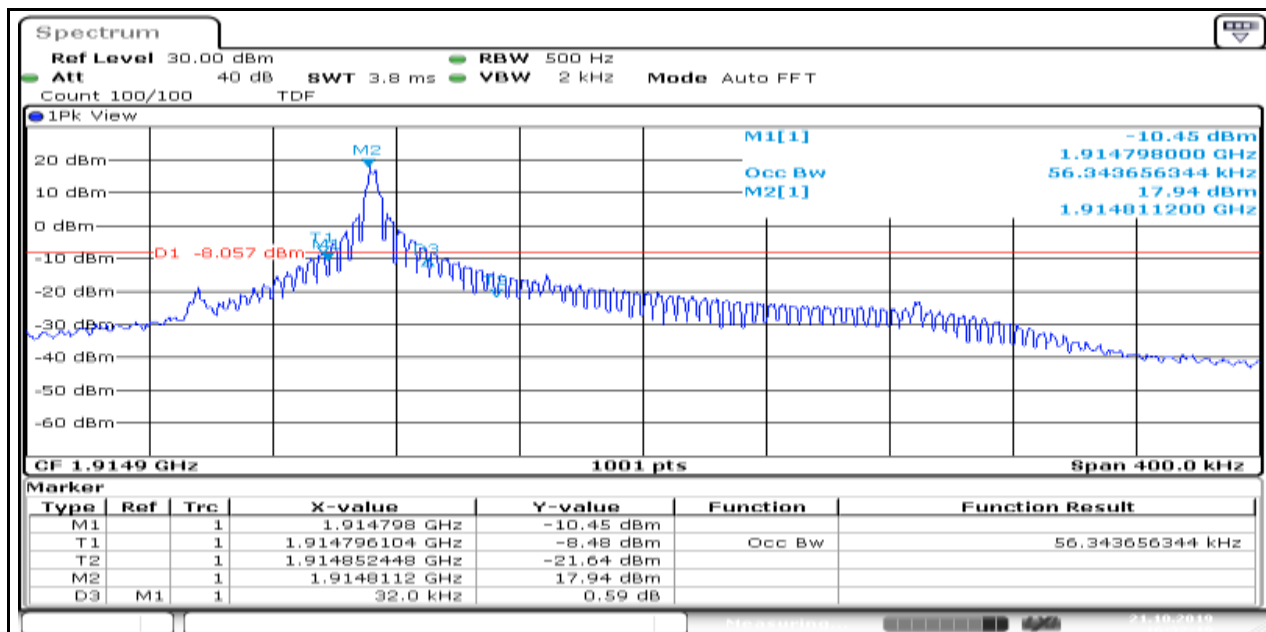


Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26365-1@0@15kHz-BPSK-NTNV-2019102112649.Gif_

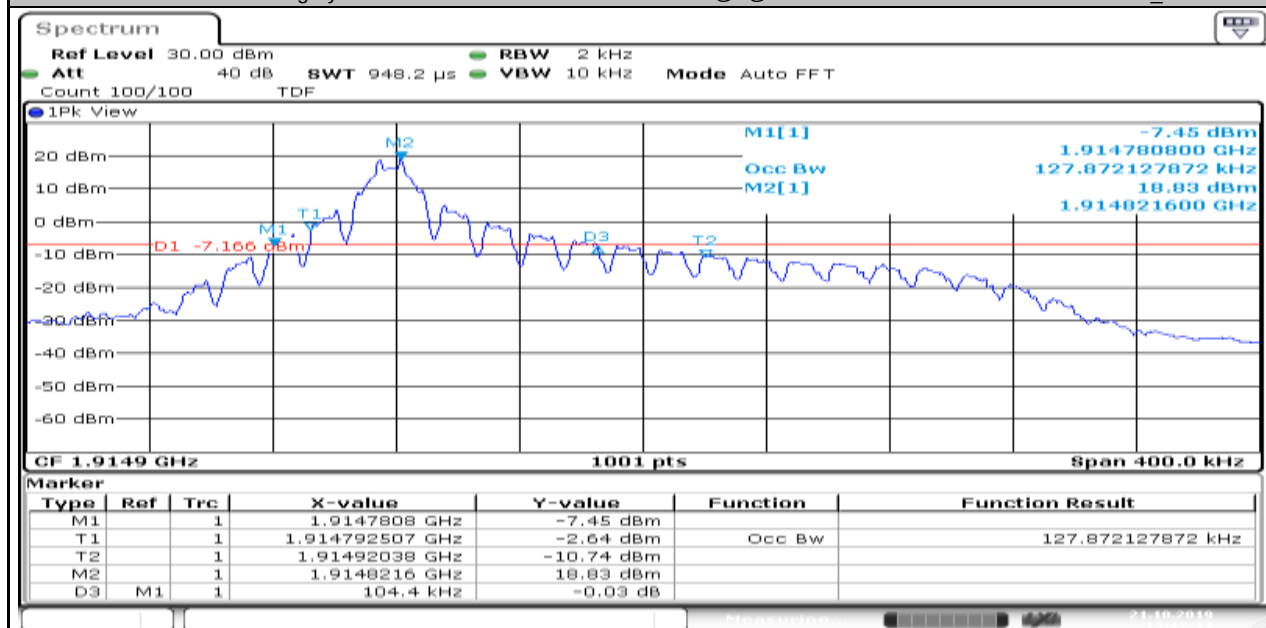


Band25_Stand-Alone_NaN_BPSK_26689_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-NaN-26689-1@0@3.75kHz-BPSK-NTNV-20191021152357.Gif_

Produkte
Products



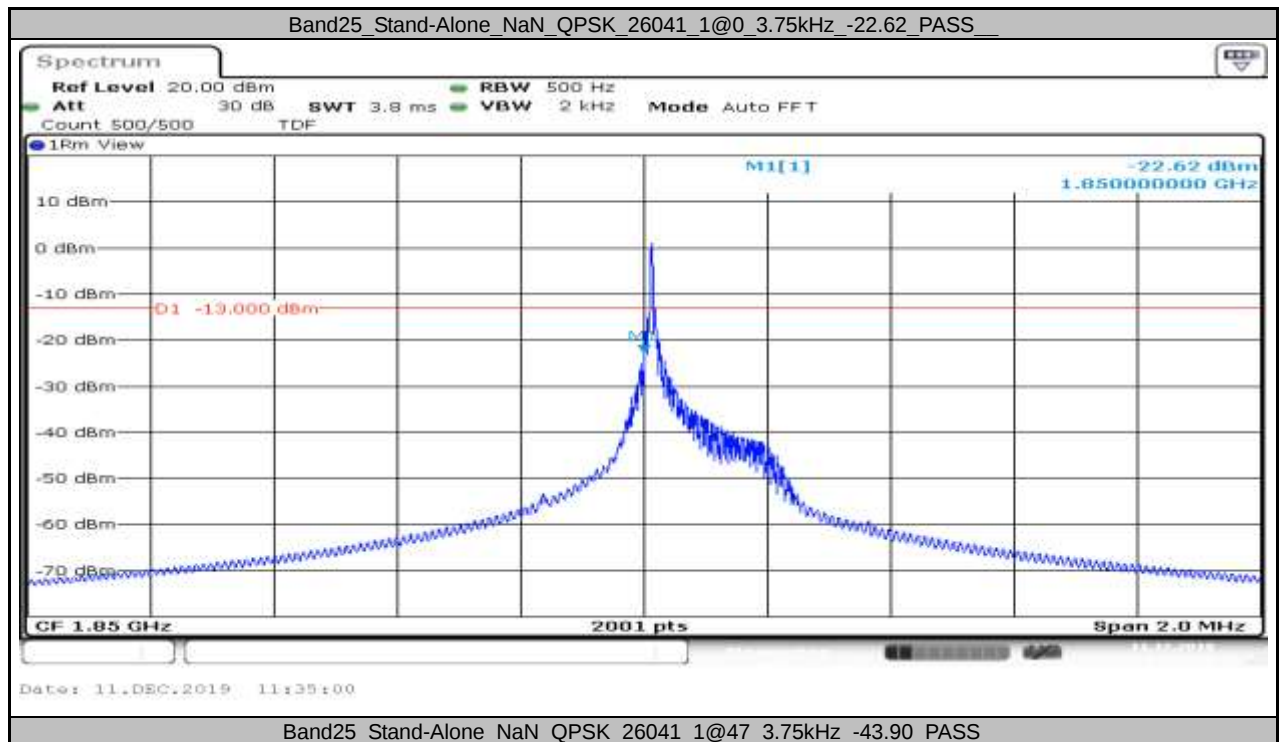
Band25_Stand-Alone_Na_N_BPSK_26689_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band25\Occupied and emission bandwidth for category NB-Band25-Stand-Alone-Na-N-26689-1@0@15kHz-BPSK-NTNV-2019102112850.Gif_

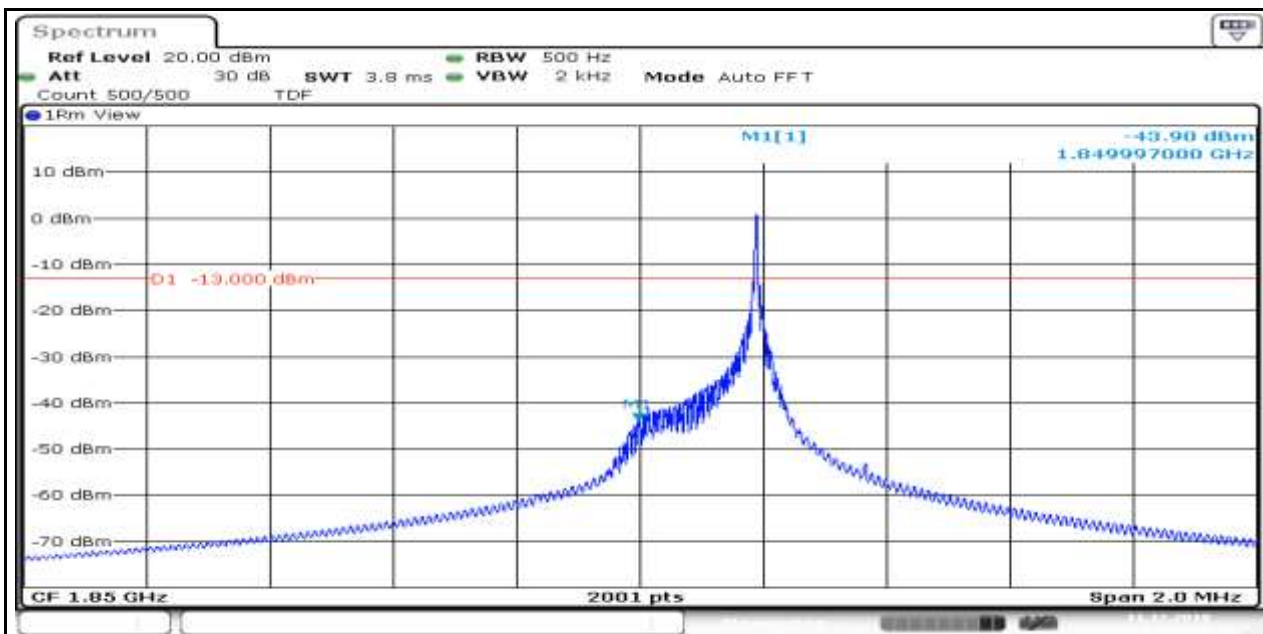


Appendix F.4: Band Edge for NB Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	-22.62	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	-43.90	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	-34.02	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@11	15kHz	-35.45	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	15kHz	-17.29	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	-21.45	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	15kHz	-34.93	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@11	15kHz	-16.04	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	-29.66	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	-43.16	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@47	3.75kHz	-43.04	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	3.75kHz	-21.04	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	-33.90	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	-15.25	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	-14.99	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	-33.62	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@47	3.75kHz	-20.69	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	3.75kHz	-42.22	PASS

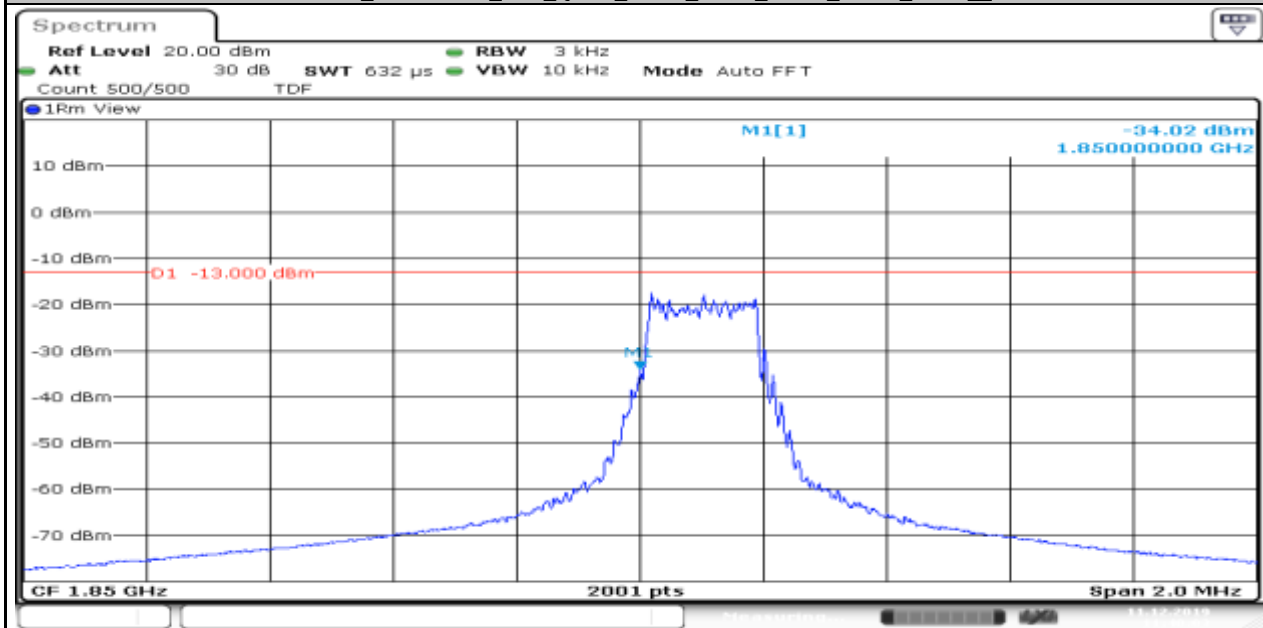
Test Graphs





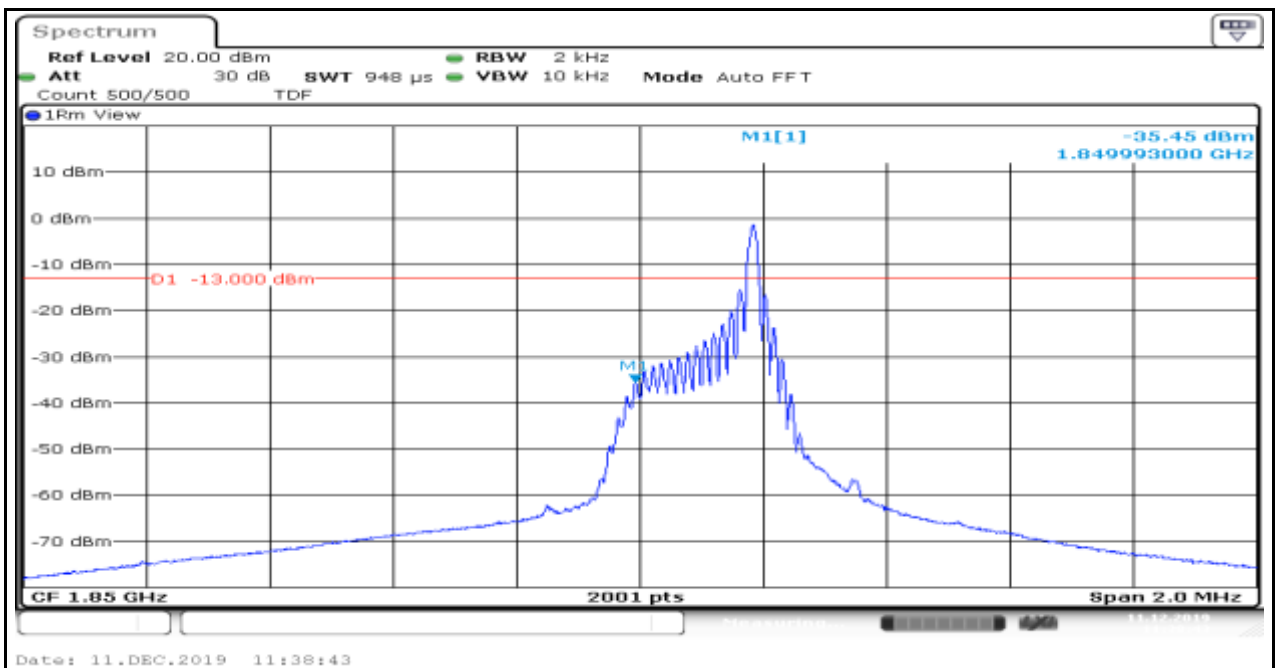
Date: 11.DEC.2019 11:36:21

Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_-34.02_PASS_

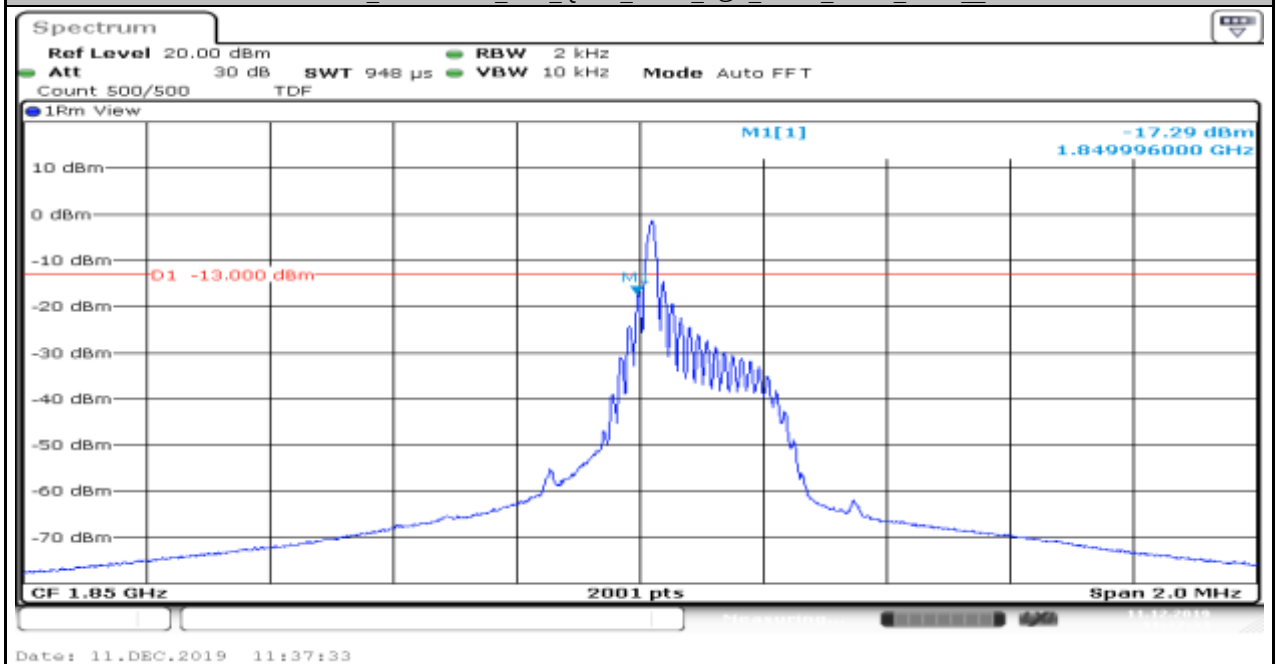


Date: 11.DEC.2019 11:40:03

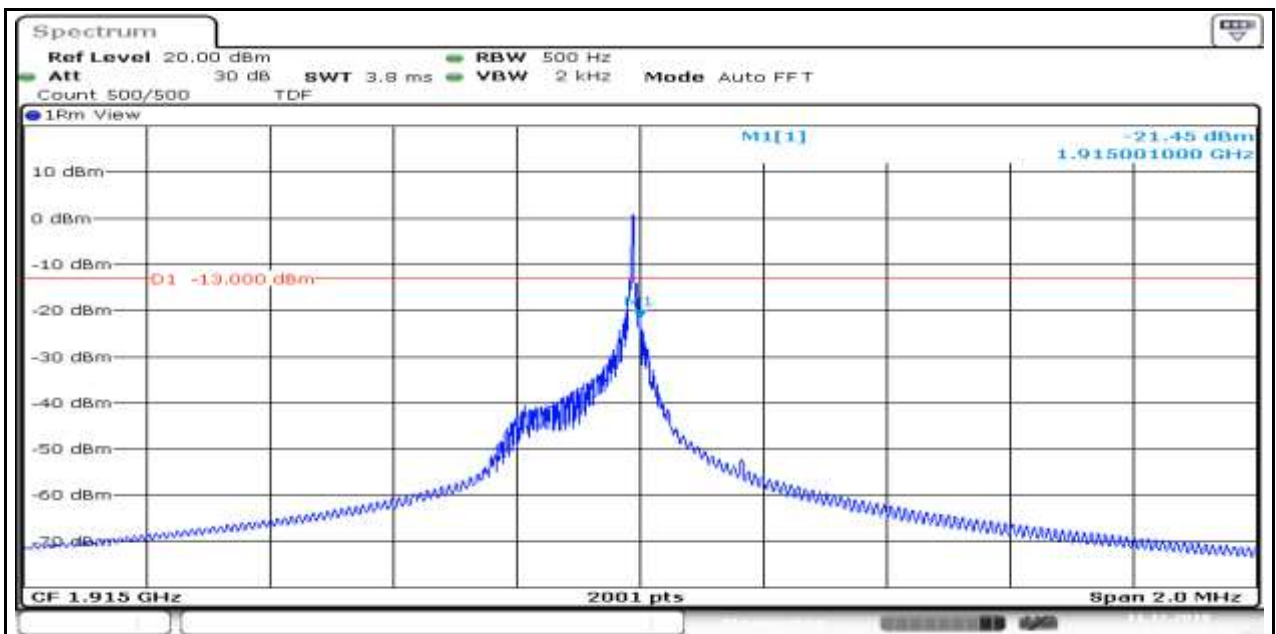
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Band25_Stand-Alone_NaN_QPSK_26041_1@0_15kHz_-17.29_PASS_

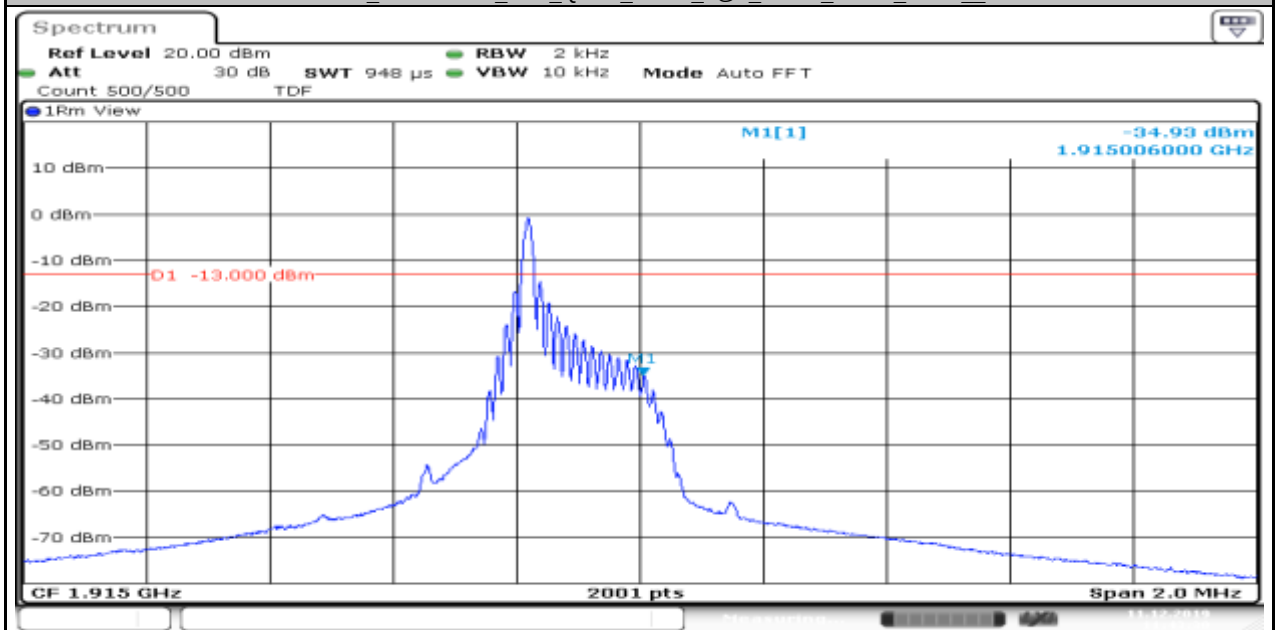


Band25_Stand-Alone_NaN_QPSK_26689_1@47_3.75kHz_-21.45_PASS_



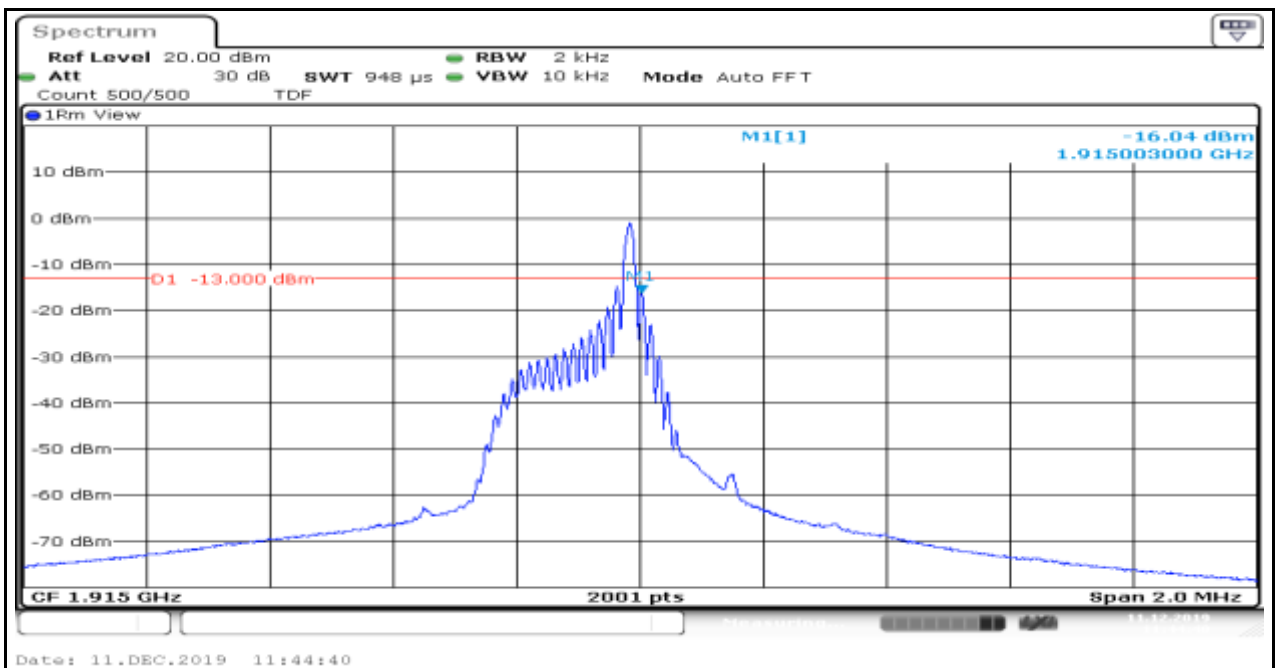
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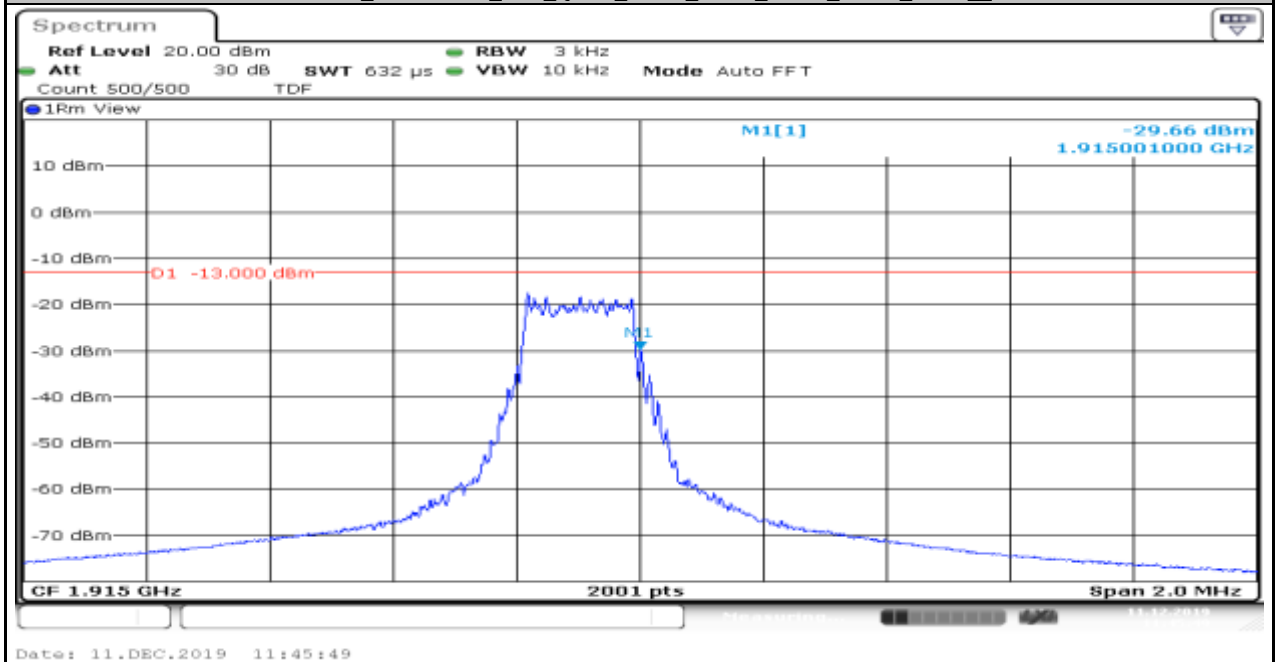


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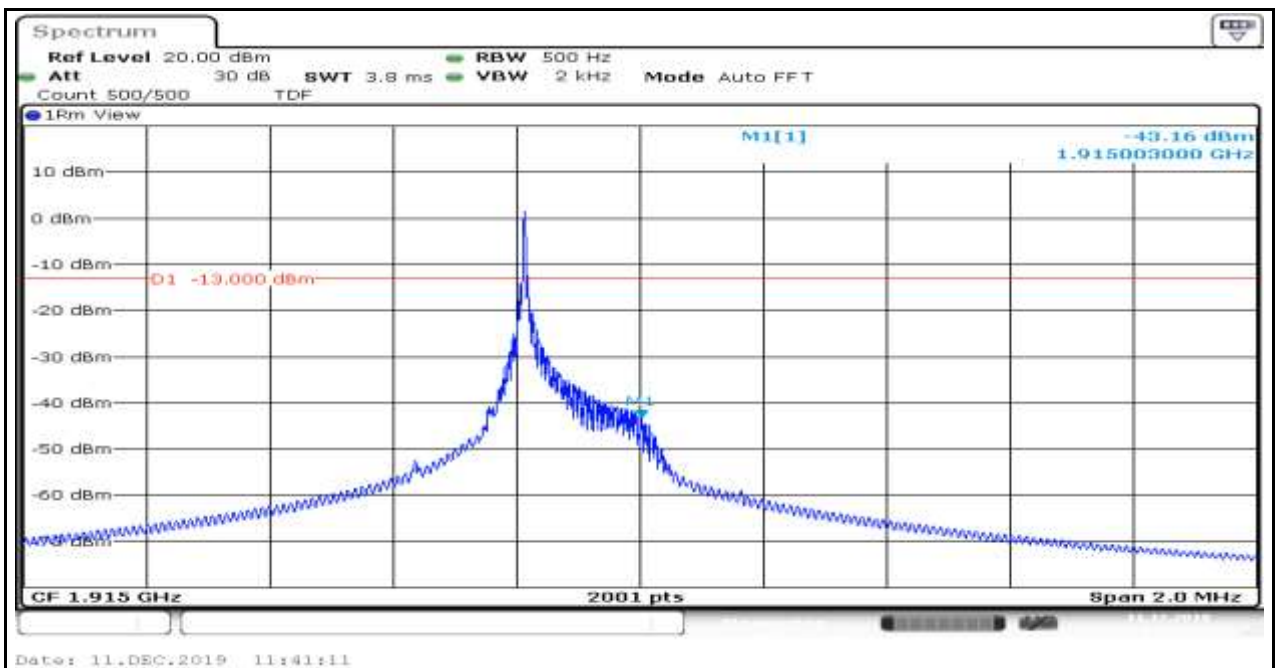
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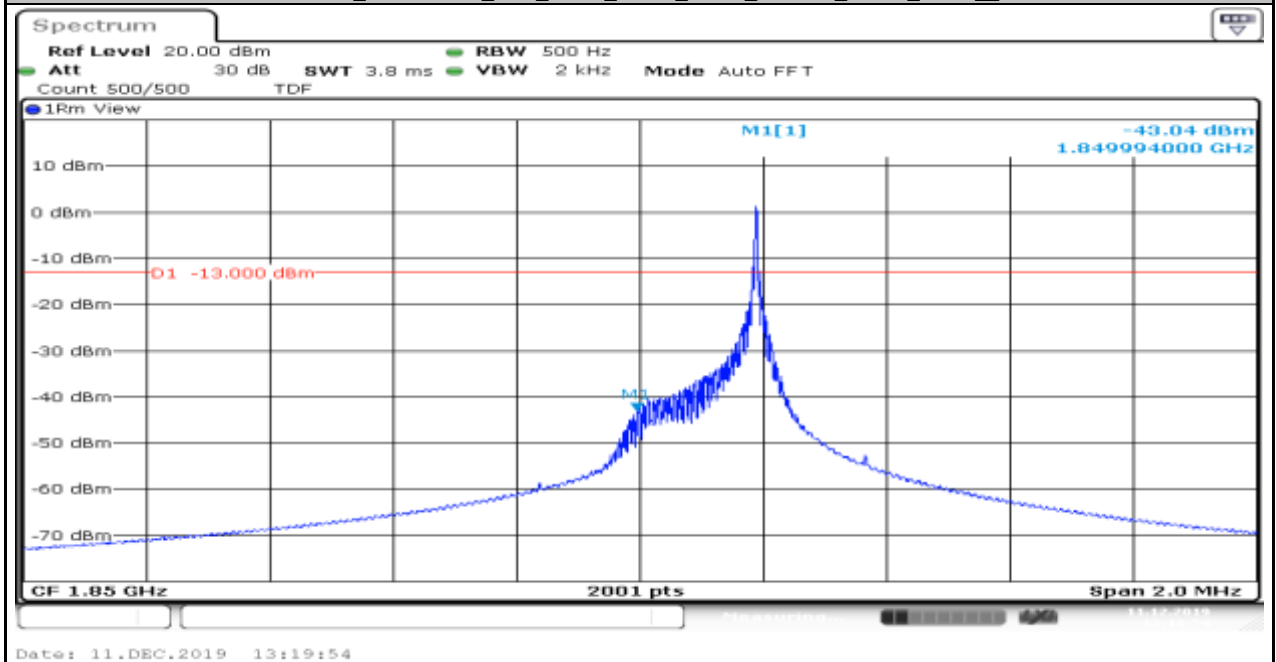
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_-29.66_PASS_



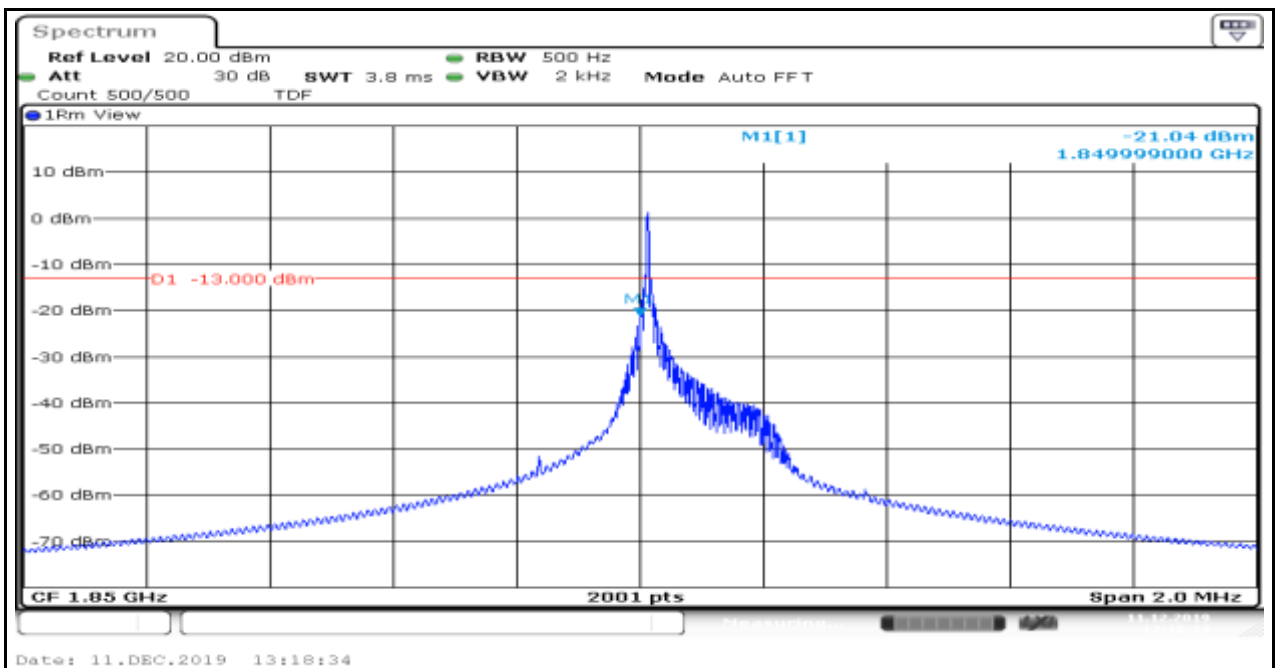
Band25_Stand-Alone_NaN_QPSK_26689_1@0_3.75kHz_-43.16_PASS_



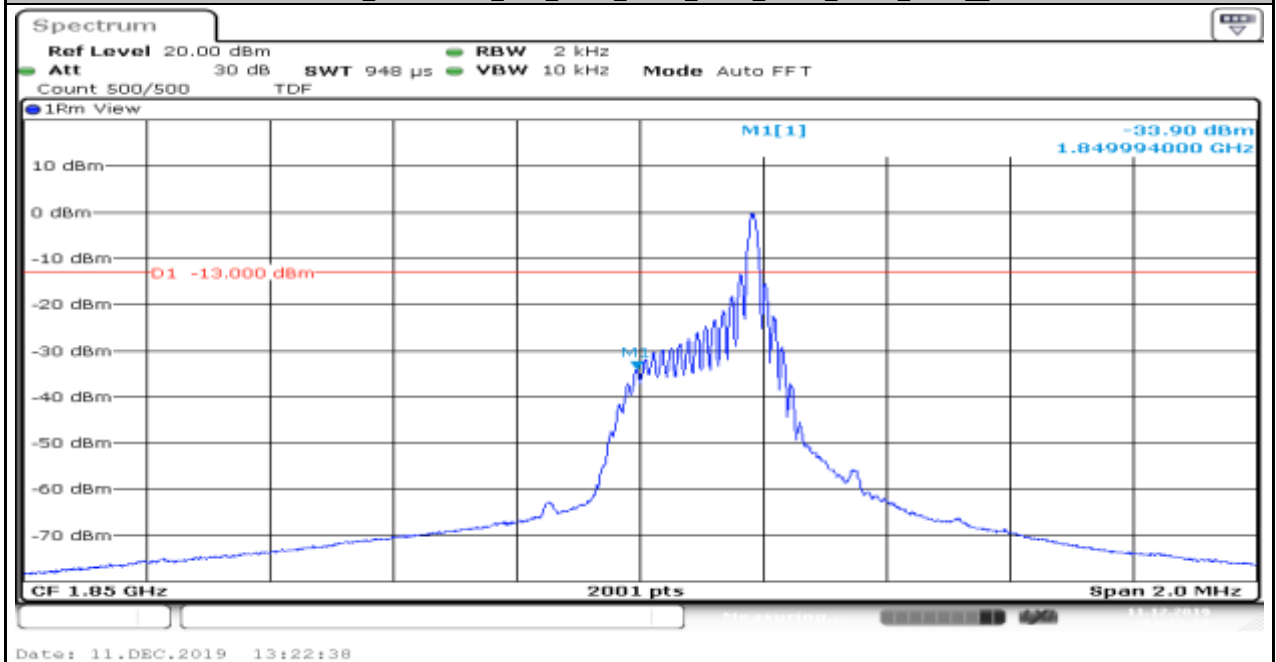
Band25_Stand-Alone_NaN_BPSK_26041_1@47_3.75kHz_-43.04_PASS_



Band25_Stand-Alone_NaN_BPSK_26041_1@0_3.75kHz_-21.04_PASS_



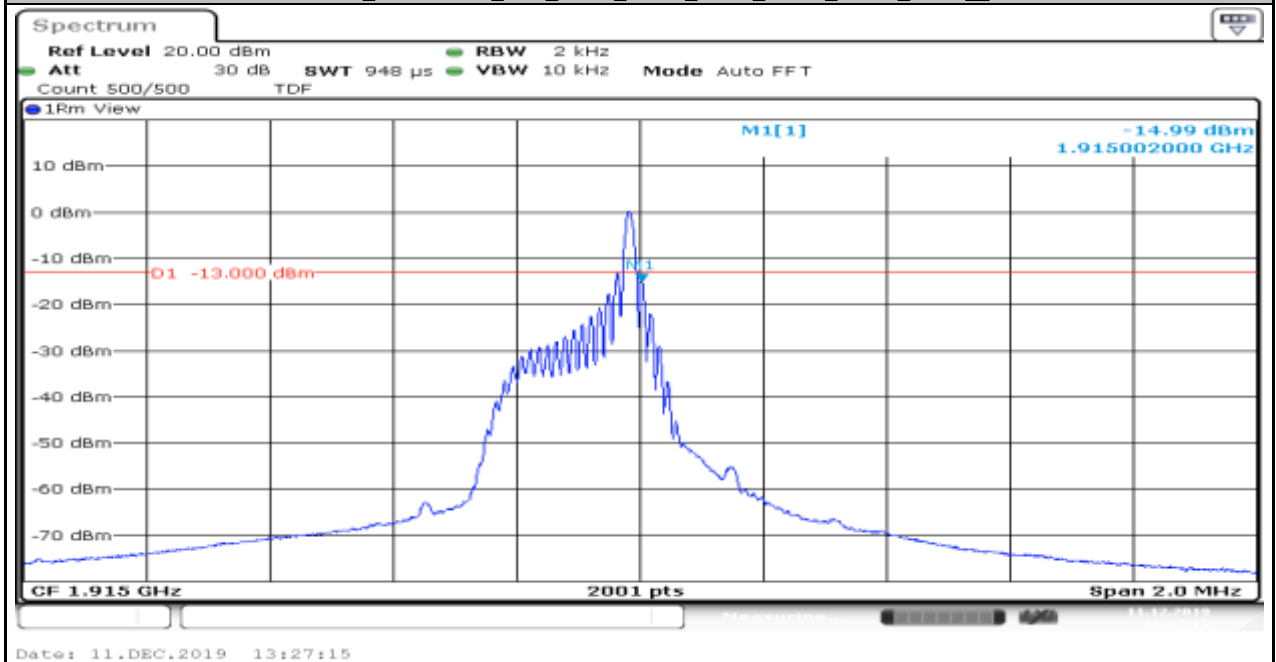
Band25_Stand-Alone_NaN_BPSK_26041_1@11_15kHz_-33.90_PASS_



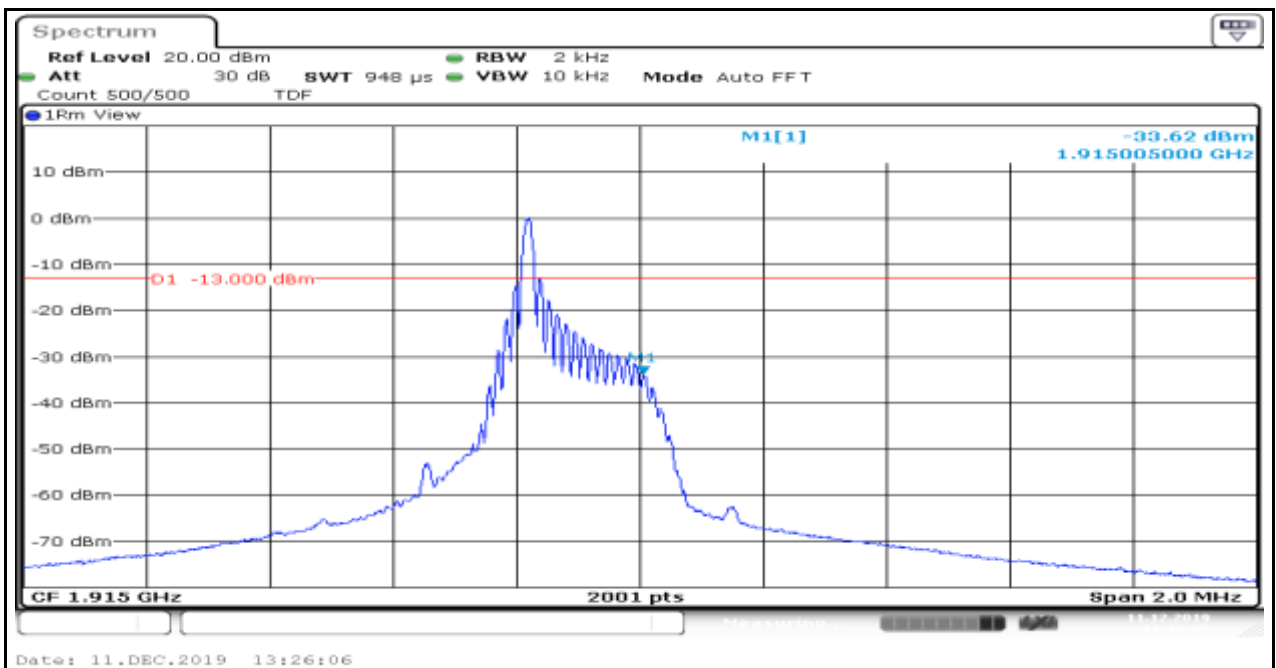
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_-15.25_PASS_



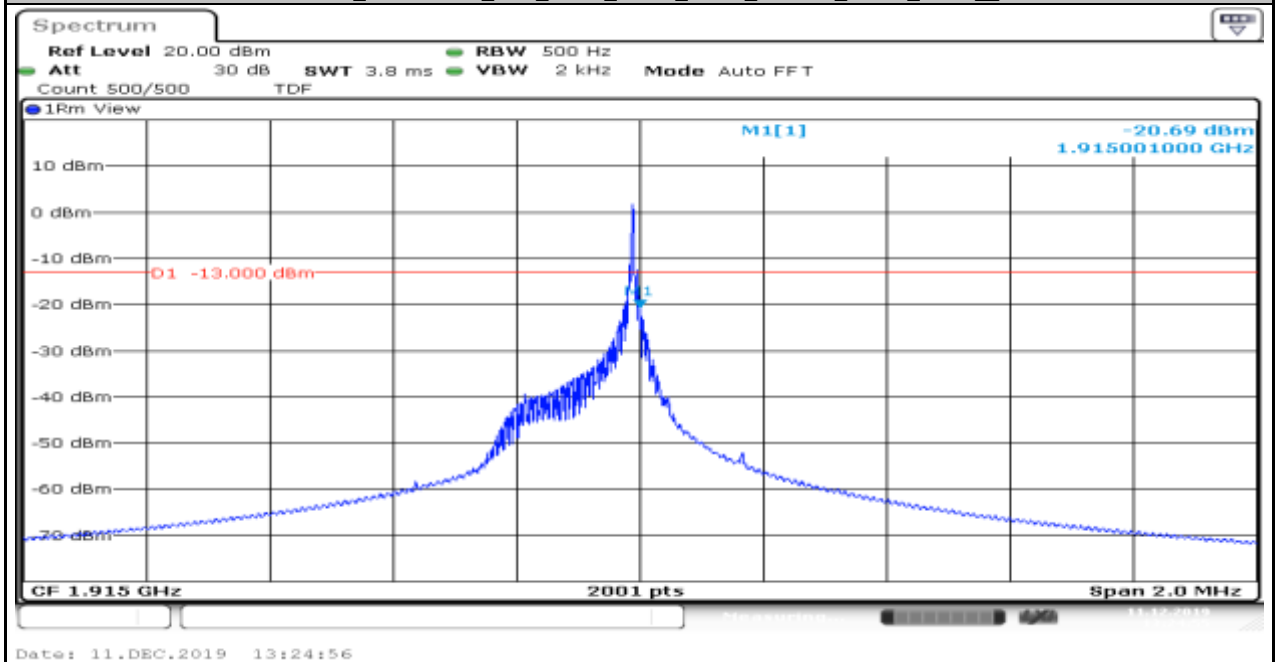
Band25_Stand-Alone_NaN_BPSK_26689_1@11_15kHz_-14.99_PASS_



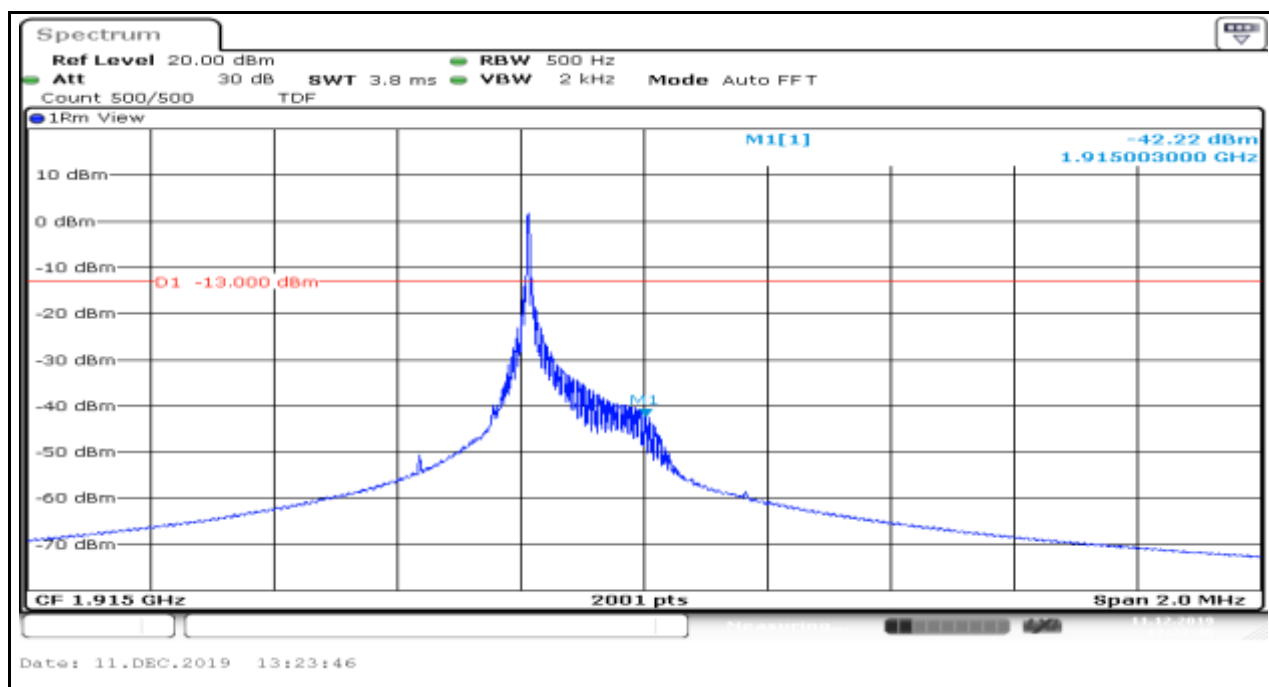
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_-33.62_PASS_



Band25_Stand-Alone_NaN_BPSK_26689_1@47_3.75kHz_-20.69_PASS_



Band25_Stand-Alone_NaN_BPSK_26689_1@0_3.75kHz_-42.22_PASS_



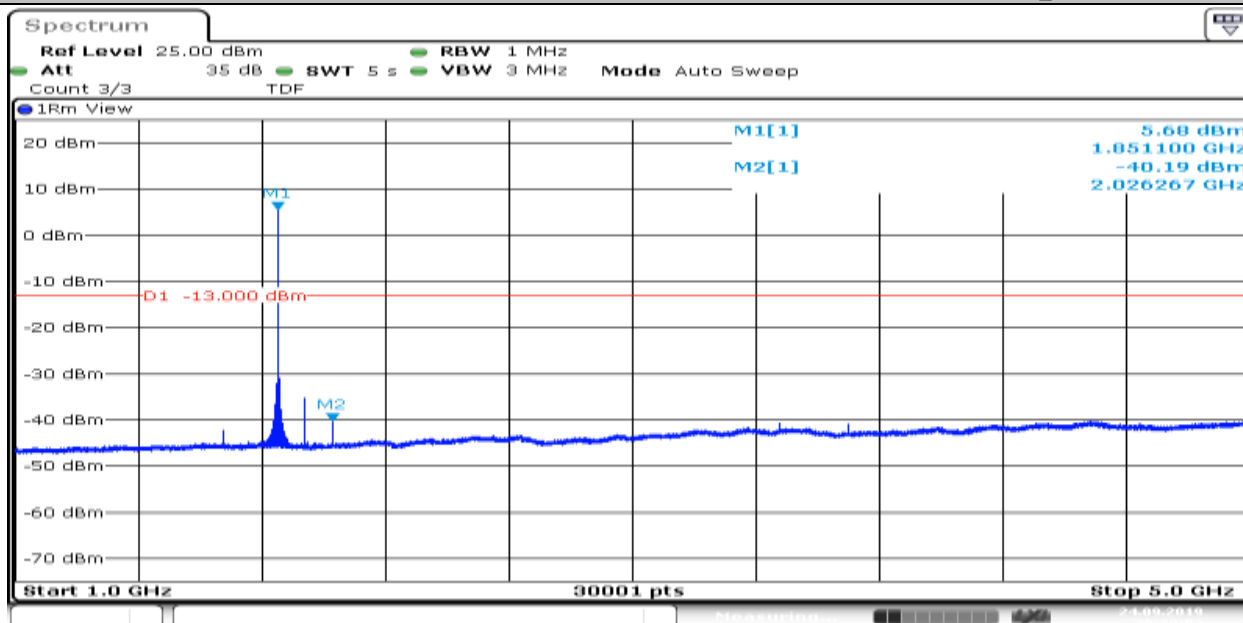
Appendix F.5: Conducted Spurious Emission for NB Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	1000	5000	1000-5000MHz@-40.19dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	5000	12000	5000-12000MHz@-40.98dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	12000	26500	12000-26500MHz@-45.8dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	30	1000	30-1000MHz@-36.58dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	1000	5000	1000-5000MHz@-40.19dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	5000	12000	5000-12000MHz@-41.01dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	12000	26500	12000-26500MHz@-45.8dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	30	1000	30-1000MHz@-36.64dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	12000	26500	12000-26500MHz@-45.53dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	5000	12000	5000-12000MHz@-51.1dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	1000	5000	1000-5000MHz@-40.25dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	30	1000	30-1000MHz@-36.61dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	5000	12000	5000-12000MHz@-40.71dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	1000	5000	1000-5000MHz@-39.94dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	12000	26500	12000-26500MHz@-45.8dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	5000	12000	5000-12000MHz@-41.05dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	1000	5000	1000-5000MHz@-40.1dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	12000	26500	12000-26500MHz@-45.95dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	12000	26500	12000-26500MHz@-45.65dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	5000	12000	5000-12000MHz@-40.76dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	1000	5000	1000-5000MHz@-39.25dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	30	1000	30-1000MHz@-36.81dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	30	1000	30-1000MHz@-37.29dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	30	1000	30-1000MHz@-37.15dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	12000	26500	12000-26500MHz@-45.71dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	30	1000	30-1000MHz@-36.8dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	5000	12000	5000-12000MHz@-40.52dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	30	1000	30-1000MHz@-36.91dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	1000	5000	1000-5000MHz@-39.93dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	5000	12000	5000-12000MHz@-40.24dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	12000	26500	12000-26500MHz@-45.73dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	30	1000	30-1000MHz@-36.81dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	1000	5000	1000-5000MHz@-39.66dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	12000	26500	12000-26500MHz@-45.8dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	5000	12000	5000-12000MHz@-39.97dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	1000	5000	1000-5000MHz@-40.17dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	12000	26500	12000-26500MHz@-45.87dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	1000	5000	1000-5000MHz@-40.34dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	5000	12000	5000-12000MHz@-41.47dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	12000	26500	12000-26500MHz@-45.99dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	5000	12000	5000-12000MHz@-41.56dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	1000	5000	1000-5000MHz@-40.17dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	30	1000	30-1000MHz@-36.77dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	30	1000	30-1000MHz@-37.12dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	30	1000	30-1000MHz@-37.17dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	12000	26500	12000-26500MHz@-46.1dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	1000	5000	1000-5000MHz@-40.39dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	5000	12000	5000-12000MHz@-41.6dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	30	1000	30-1000MHz@-37.11dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	12000	26500	12000-26500MHz@-45.83dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	1000	5000	1000-5000MHz@-40.23dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	5000	12000	5000-12000MHz@-41.52dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	12000	26500	12000-26500MHz@-45.82dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	30	1000	30-1000MHz@-36.93dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	1000	5000	1000-5000MHz@-40.04dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	5000	12000	5000-12000MHz@-51.28dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	12000	26500	12000-26500MHz@-45.88dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	30	1000	30-1000MHz@-37.06dBm	-13	PASS

Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	1000	5000	1000-5000MHz@-40.2dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	5000	12000	5000-12000MHz@-51.26dBm	-13	PASS

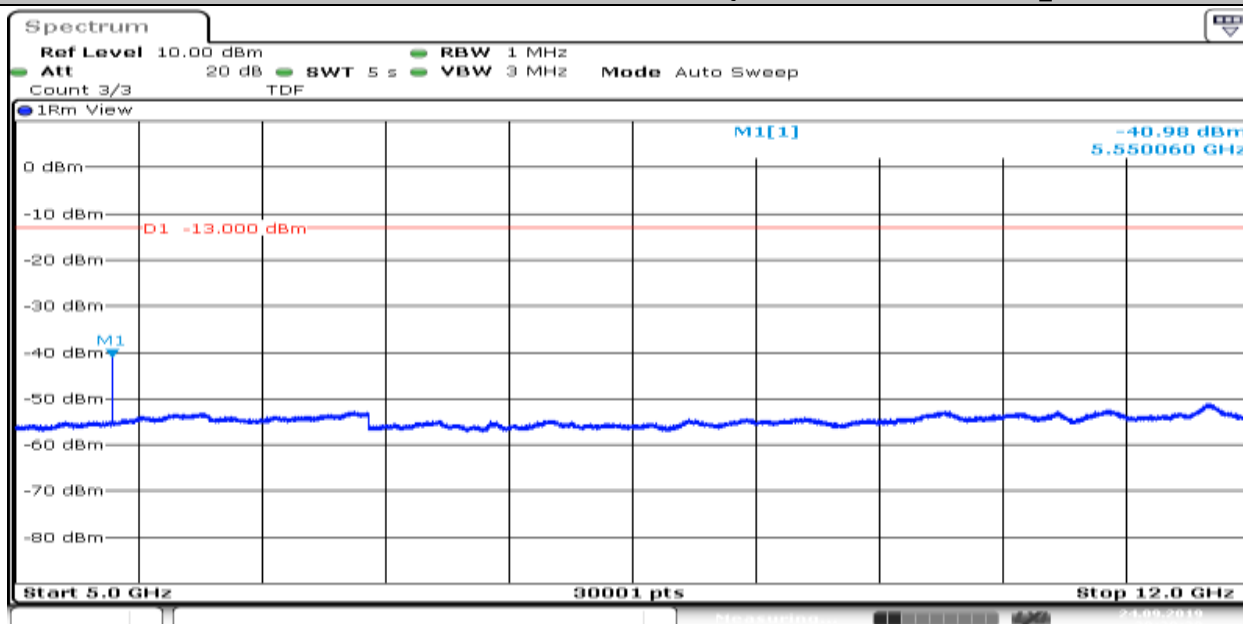
Test Graphs

Band25_Stand-Alone_NaN_QPSK_26041_1@0_3.75kHz_1000_5000_1000-5000MHz@-40.19dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band25\Spurious emission at antenna terminals for category NB-Band25-Stand-Alone-NaN-26041-1@0@3.75kHz-QPSK-NTNV-2019924192056.Gif_



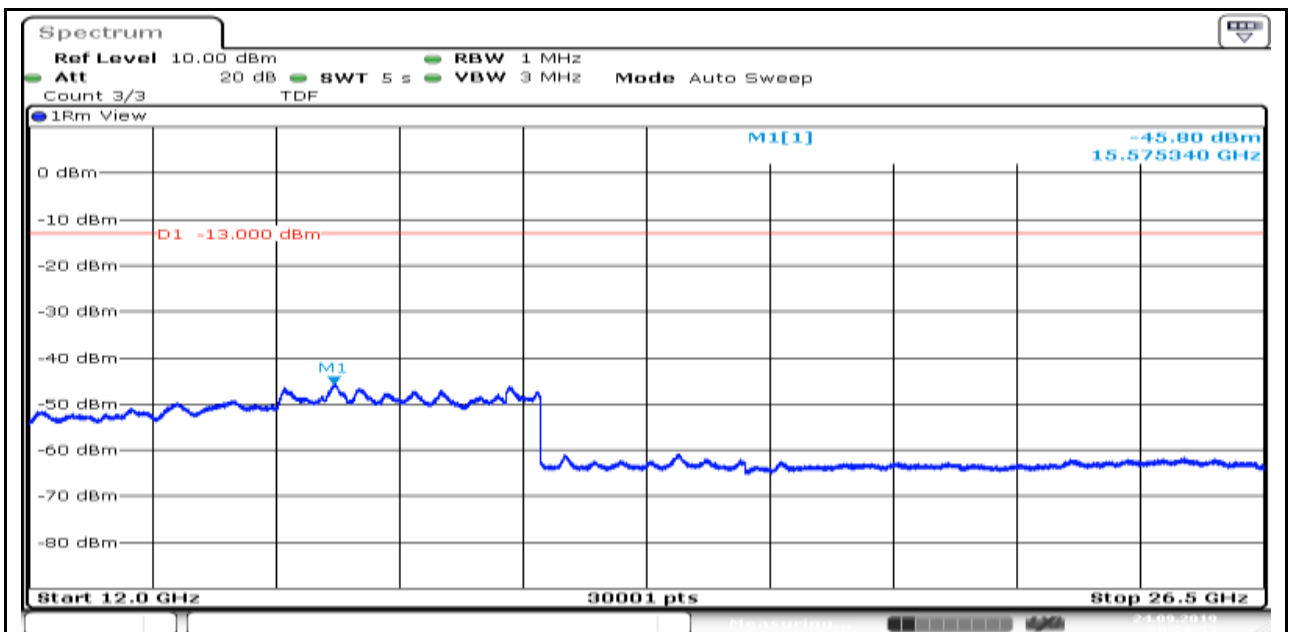
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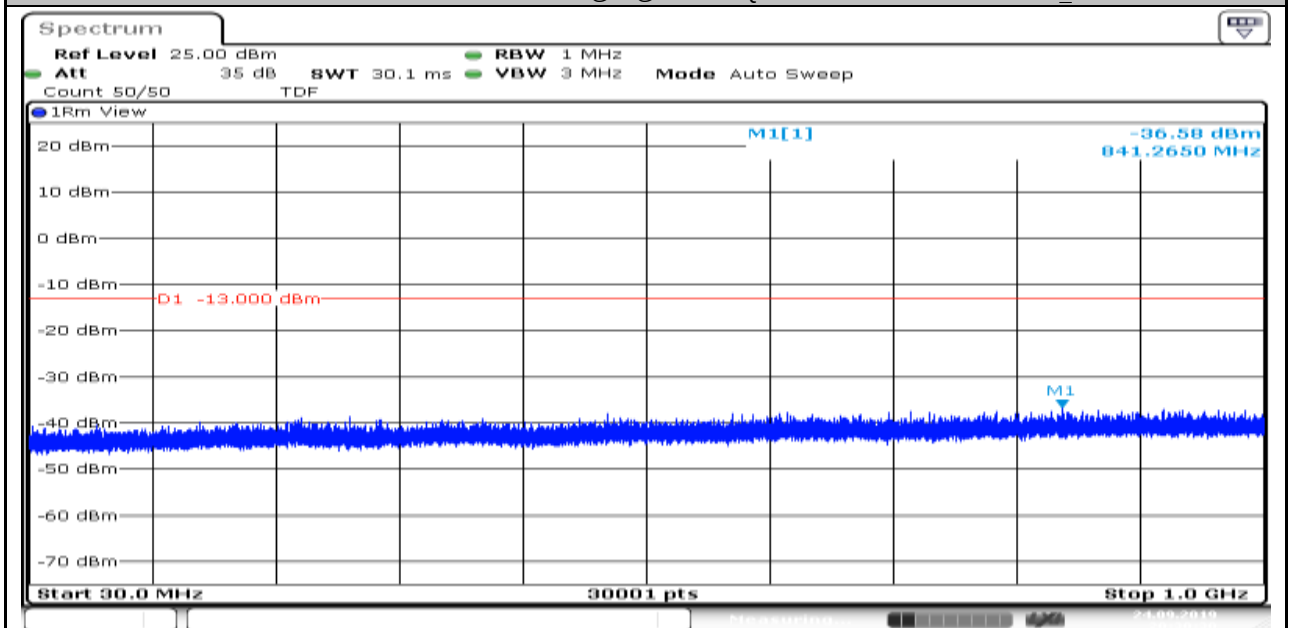


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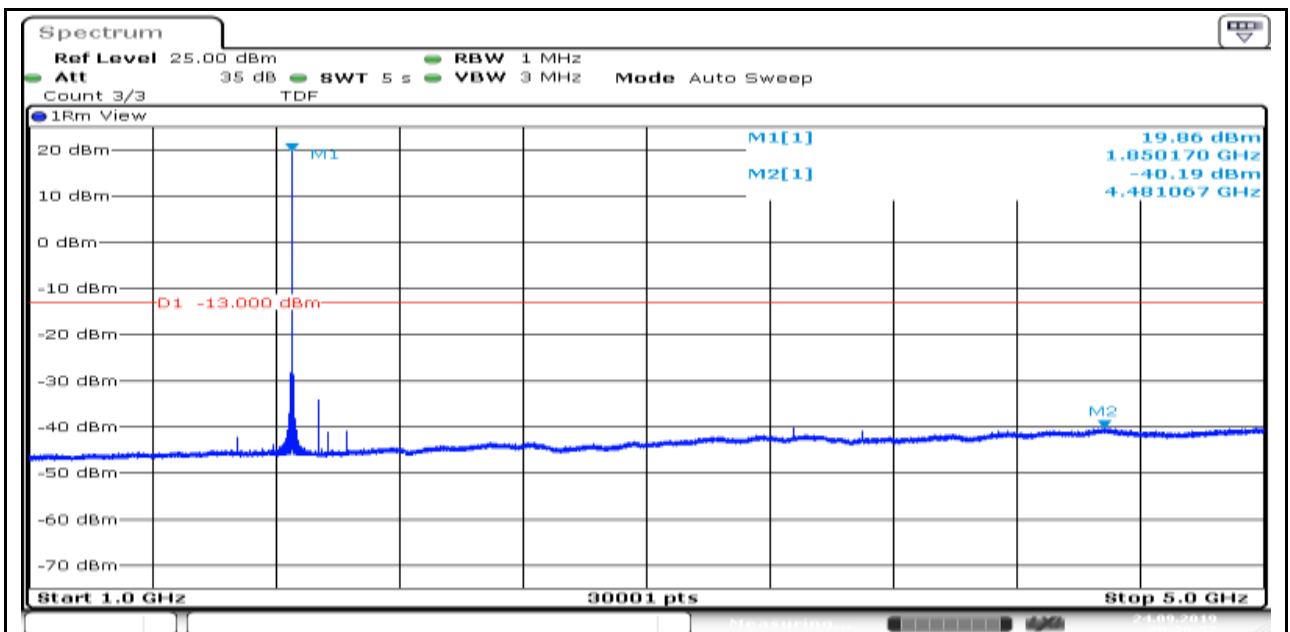
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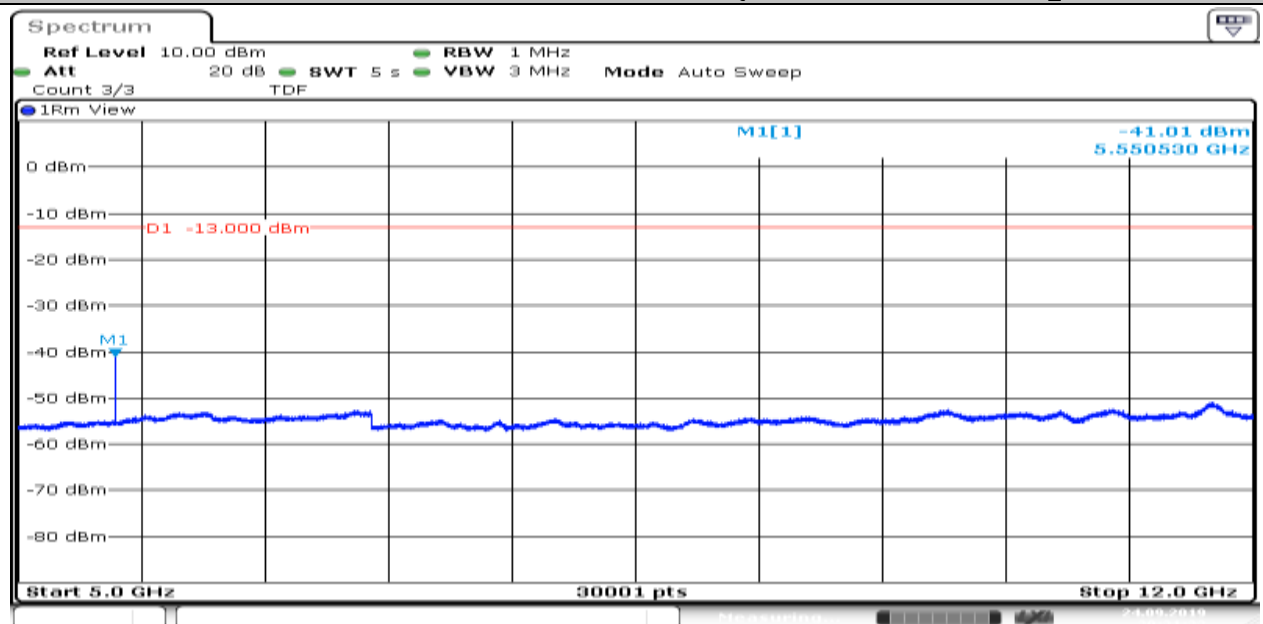
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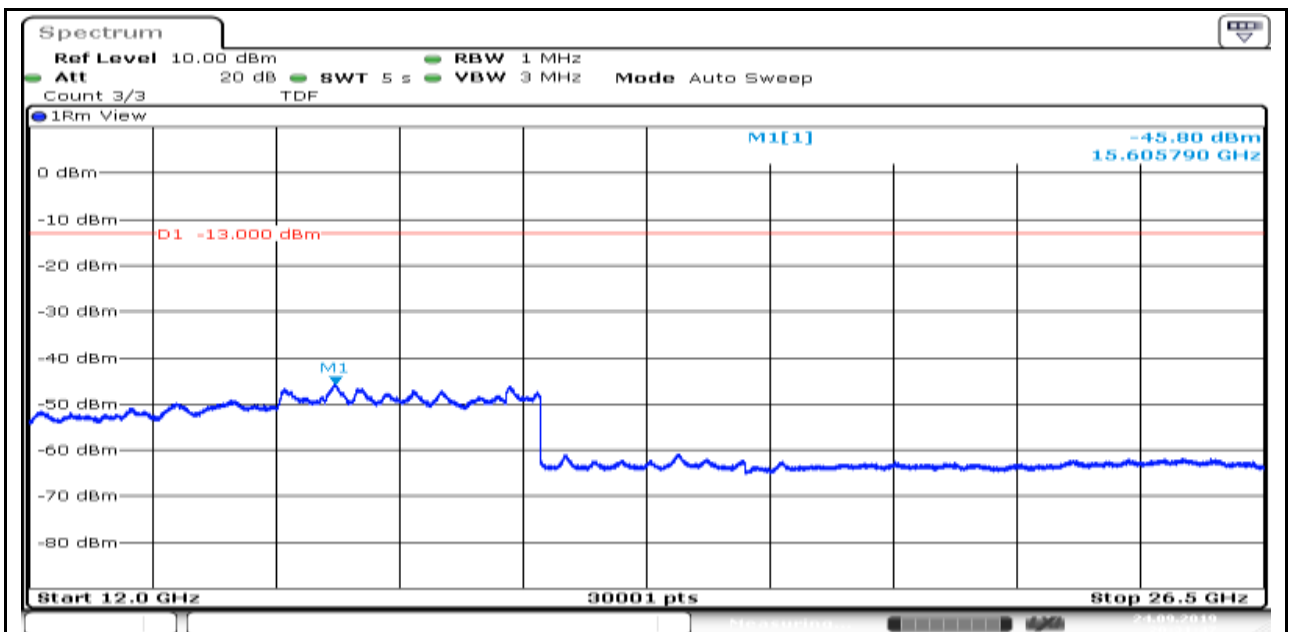
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Band25_Stand-Alone_NaN_QPSK_26041_1@47_3.75kHz_5000_12000_5000~12000MHz@-41.01dBm_-13_PASS_FCC_ME910G
1\FCC_NBIOT_eMTC_NVNT\Band25\Spurious emission at antenna terminals for category
NB-Band25-Stand-Alone-NaN-26041-1@47@3.75kHz-QPSK-NTNV-2019924192315.Gif_

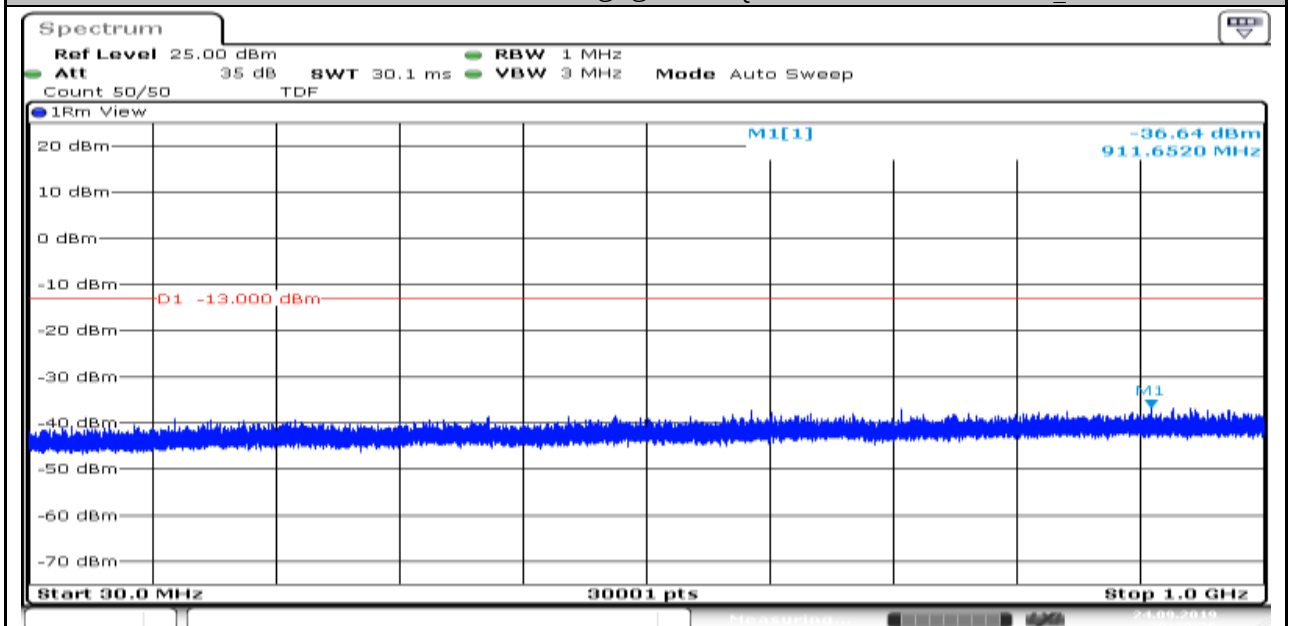


Band25_Stand-Alone_NaN_QPSK_26041_1@47_3.75kHz_12000_26500_12000~26500MHz@-45.8dBm_-13_PASS_FCC_ME910
G1\FCC_NBIOT_eMTC_NVNT\Band25\Spurious emission at antenna terminals for category
NB-Band25-Stand-Alone-NaN-26041-1@47@3.75kHz-QPSK-NTNV-2019924192340.Gif_



Date: 24.SEP.2019 20:31:47

Band25_Stand-Alone_NaN_QPSK_26041_1@0_3.75kHz_30_1000_30~1000MHz@-36.64dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band25\Spurious emission at antenna terminals for category NB-Band25-Stand-Alone-NaN-26041-1@0@3.75kHz-QPSK-NTNV-2019924192029.Gif_



Date: 24.SEP.2019 20:28:36

Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_12000_26500_12000~26500MHz@-45.53dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band25\Spurious emission at antenna terminals for category NB-Band25-Stand-Alone-NaN-26041-12@0@15kHz-QPSK-NTNV-201992419340.Gif_