

Appendix B.6: Frequency Stability for M1

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	QPSK	20175	1	0	Low	HV	NT	-11.19	-0.006459	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	LV	NT	-13.76	-0.007942	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	NT	-9.71	-0.005605	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	HV	NT	-10.96	-0.006326	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	LV	NT	-10.41	-0.006009	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	NT	-10.70	-0.006176	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	85	-13.35	-0.007706	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	-30	-12.82	-0.007400	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	-20	-13.00	-0.007504	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	-10	-11.00	-0.006349	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	0	-12.89	-0.007440	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	10	-13.99	-0.008075	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	20	-10.21	-0.005893	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	30	-12.80	-0.007388	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	40	-12.10	-0.006984	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	50	-11.30	-0.006522	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	60	-12.45	-0.007186	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	70	-12.93	-0.007463	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	-40	-11.29	-0.006517	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	NV	80	-12.87	-0.007429	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	85	-10.97	-0.006332	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	-30	-10.87	-0.006274	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	-20	-10.31	-0.005951	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	-10	-11.87	-0.006851	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	0	-12.32	-0.007111	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	10	-11.27	-0.006505	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	20	-9.17	-0.005293	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	30	-10.53	-0.006078	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	40	-8.97	-0.005177	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	50	-10.97	-0.006332	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	60	-9.70	-0.005599	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	70	-9.08	-0.005241	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	80	-11.54	-0.006661	±2.5	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	NV	-40	-10.71	-0.006182	±2.5	PASS

Appendix C: Test Results of Band 5 for eMTC operation

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Appendix C.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

Test Result

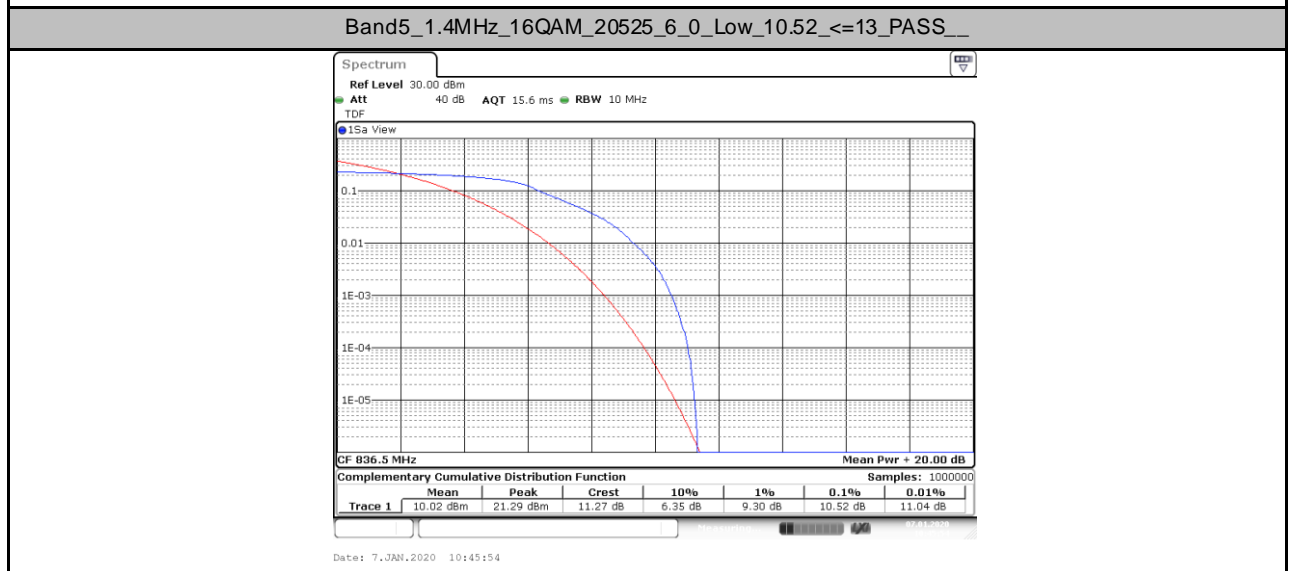
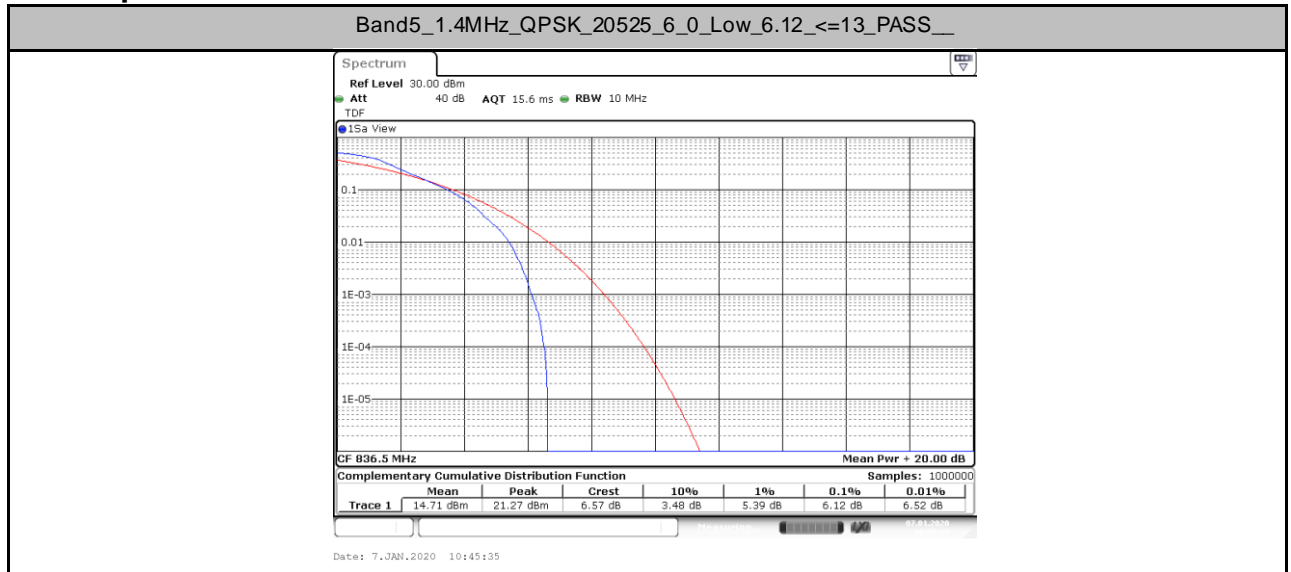
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP		Limit (watts)		Verdict
								dBm	Watts	FCC	ISED	
Band5	1.4MHz	QPSK	20407	1	0	Low	22.78	22.77	0.189	7	11.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	22.59	22.58	0.181	7	11.5	PASS
Band5	1.4MHz	QPSK	20643	1	5	Low	22.33	22.32	0.171	7	11.5	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	20.65	20.64	0.116	7	11.5	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	20.48	20.47	0.111	7	11.5	PASS
Band5	1.4MHz	QPSK	20643	6	0	Low	20.23	20.22	0.105	7	11.5	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	21.89	21.88	0.154	7	11.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	22.08	22.07	0.161	7	11.5	PASS
Band5	1.4MHz	16QAM	20643	1	5	Low	21.43	21.42	0.139	7	11.5	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	20.66	20.65	0.116	7	11.5	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	20.44	20.43	0.110	7	11.5	PASS
Band5	1.4MHz	16QAM	20643	6	0	Low	20.22	20.21	0.105	7	11.5	PASS
Band5	3MHz	QPSK	20415	1	0	Low	22.76	22.75	0.188	7	11.5	PASS
Band5	3MHz	QPSK	20525	1	0	Low	22.59	22.58	0.181	7	11.5	PASS
Band5	3MHz	QPSK	20635	1	5	High	22.27	22.26	0.168	7	11.5	PASS
Band5	3MHz	QPSK	20415	6	0	Low	20.61	20.6	0.115	7	11.5	PASS
Band5	3MHz	QPSK	20525	6	0	Low	20.4	20.39	0.109	7	11.5	PASS
Band5	3MHz	QPSK	20635	6	0	High	20.25	20.24	0.106	7	11.5	PASS
Band5	3MHz	16QAM	20415	1	0	Low	21.87	21.86	0.153	7	11.5	PASS
Band5	3MHz	16QAM	20525	1	0	Low	21.67	21.66	0.147	7	11.5	PASS
Band5	3MHz	16QAM	20635	1	5	High	21.43	21.42	0.139	7	11.5	PASS
Band5	3MHz	16QAM	20415	6	0	Low	20.7	20.69	0.117	7	11.5	PASS
Band5	3MHz	16QAM	20525	6	0	Low	20.43	20.42	0.110	7	11.5	PASS
Band5	3MHz	16QAM	20635	6	0	High	20.25	20.24	0.106	7	11.5	PASS
Band5	5MHz	QPSK	20425	1	0	Low	22.78	22.77	0.189	7	11.5	PASS
Band5	5MHz	QPSK	20525	1	0	Low	22.6	22.59	0.182	7	11.5	PASS
Band5	5MHz	QPSK	20625	1	5	High	22.27	22.26	0.168	7	11.5	PASS
Band5	5MHz	QPSK	20625	3	3	High	21.28	21.27	0.134	7	11.5	PASS
Band5	5MHz	QPSK	20425	6	0	Low	21.61	21.6	0.145	7	11.5	PASS
Band5	5MHz	QPSK	20525	6	0	Low	21.33	21.32	0.136	7	11.5	PASS
Band5	5MHz	16QAM	20425	1	0	Low	22.95	22.94	0.197	7	11.5	PASS
Band5	5MHz	16QAM	20525	1	0	Low	22.76	22.75	0.188	7	11.5	PASS
Band5	5MHz	16QAM	20625	1	5	High	22.46	22.45	0.176	7	11.5	PASS
Band5	5MHz	16QAM	20625	3	3	High	21.45	21.44	0.139	7	11.5	PASS
Band5	5MHz	16QAM	20425	6	0	Low	21.6	21.59	0.144	7	11.5	PASS
Band5	5MHz	16QAM	20525	6	0	Low	21.33	21.32	0.136	7	11.5	PASS
Band5	10MHz	QPSK	20450	1	0	Low	22.76	22.75	0.188	7	11.5	PASS
Band5	10MHz	QPSK	20525	1	0	Low	22.6	22.59	0.182	7	11.5	PASS
Band5	10MHz	QPSK	20600	1	5	High	22.3	22.29	0.169	7	11.5	PASS
Band5	10MHz	QPSK	20450	5	0	Low	21.62	21.61	0.145	7	11.5	PASS
Band5	10MHz	QPSK	20525	5	0	Low	21.46	21.45	0.140	7	11.5	PASS
Band5	10MHz	QPSK	20600	5	1	High	21.24	21.23	0.133	7	11.5	PASS
Band5	10MHz	16QAM	20450	1	0	Low	22.92	22.91	0.195	7	11.5	PASS
Band5	10MHz	16QAM	20525	1	0	Low	22.74	22.73	0.187	7	11.5	PASS
Band5	10MHz	16QAM	20600	1	5	High	22.46	22.45	0.176	7	11.5	PASS
Band5	10MHz	16QAM	20450	5	0	Low	21.75	21.74	0.149	7	11.5	PASS
Band5	10MHz	16QAM	20525	5	0	Low	21.58	21.57	0.144	7	11.5	PASS
Band5	10MHz	16QAM	20600	5	1	High	21.36	21.35	0.136	7	11.5	PASS

Appendix C.2: Peak-to-Average Ratio (CCDF) for M1

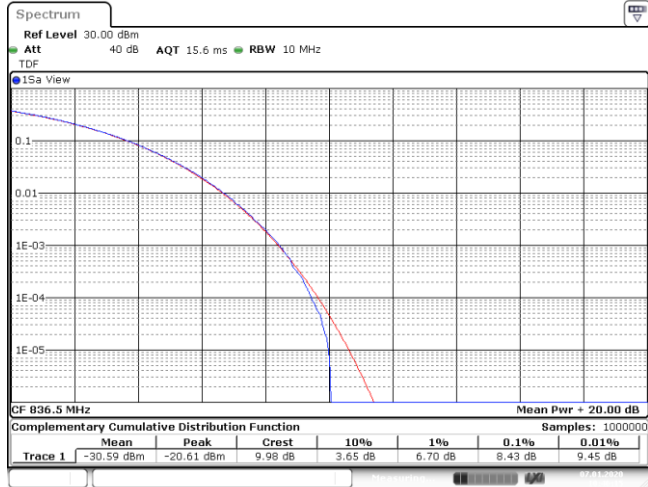
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20525	6	0	Low	6.12	<=13	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	10.52	<=13	PASS
Band5	3MHz	QPSK	20525	6	0	Low	8.43	<=13	PASS
Band5	3MHz	16QAM	20525	6	0	Low	11.68	<=13	PASS
Band5	5MHz	QPSK	20525	6	0	Low	4.87	<=13	PASS
Band5	5MHz	16QAM	20525	6	0	Low	10.26	<=13	PASS
Band5	10MHz	QPSK	20525	6	0	Low	8.38	<=13	PASS
Band5	10MHz	16QAM	20525	6	0	Low	10.81	<=13	PASS

Test Graphs

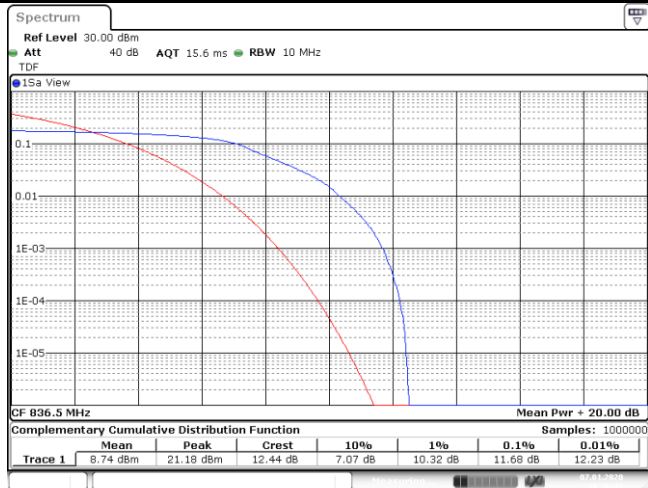


Band5_3MHz_QPSK_20525_6_0_Low_8.43_<=13_PASS__



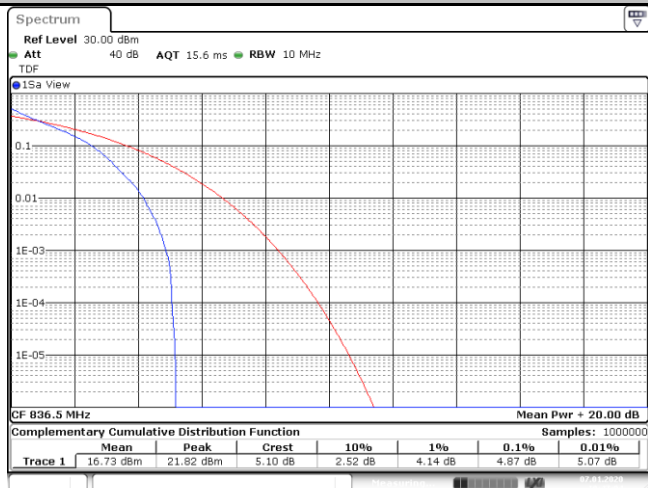
Date: 7.JAN.2020 10:46:15

Band5_3MHz_16QAM_20525_6_0_Low_11.68_<=13_PASS__



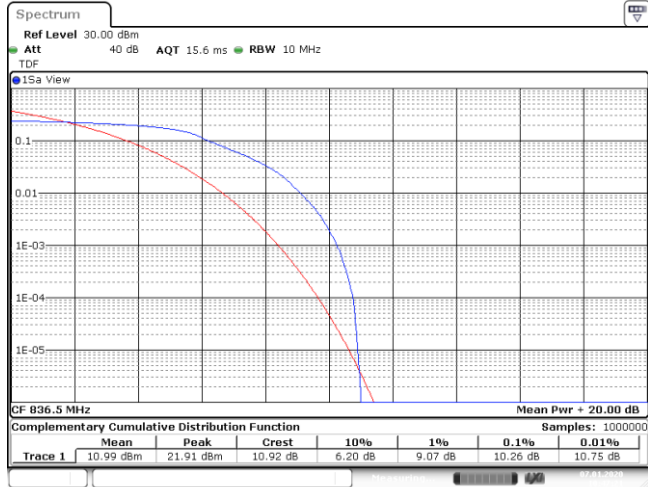
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Band5_5MHz_QPSK_20525_6_0_Low_4.87_<=13_PASS__



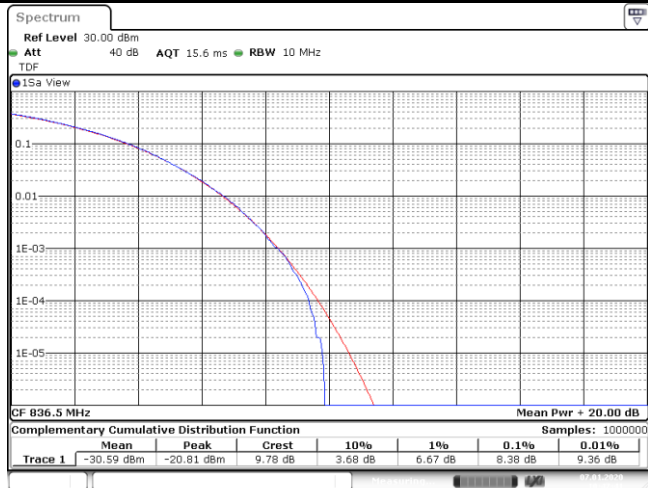
Date: 7.JAN.2020 10:47:04

Band5_5MHz_16QAM_20525_6_0_Low_10.26_<=13_PASS__



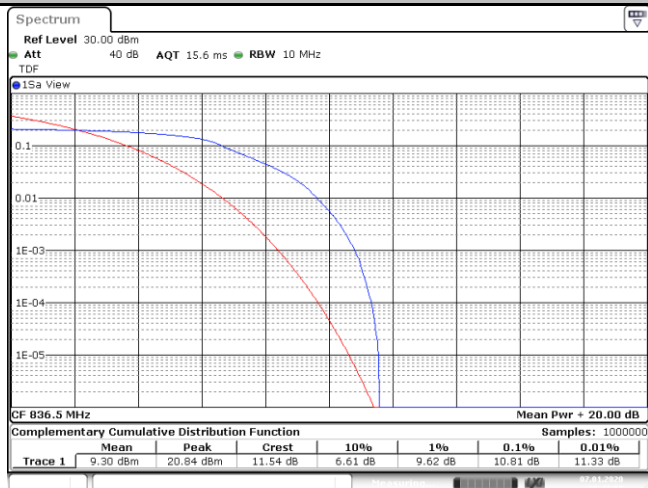
Date: 7.JAN.2020 10:47:21

Band5_10MHz_QPSK_20525_6_0_Low_8.38_<=13_PASS__



Date: 7.JAN.2020 10:47:41

Band5_10MHz_16QAM_20525_6_0_Low_10.81_<=13_PASS__



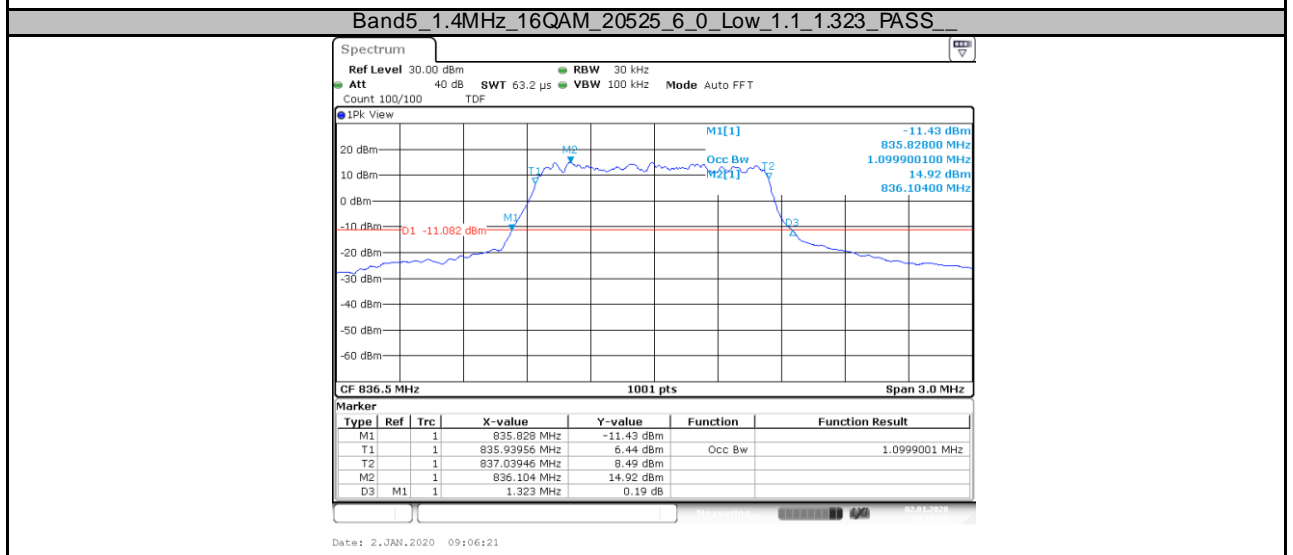
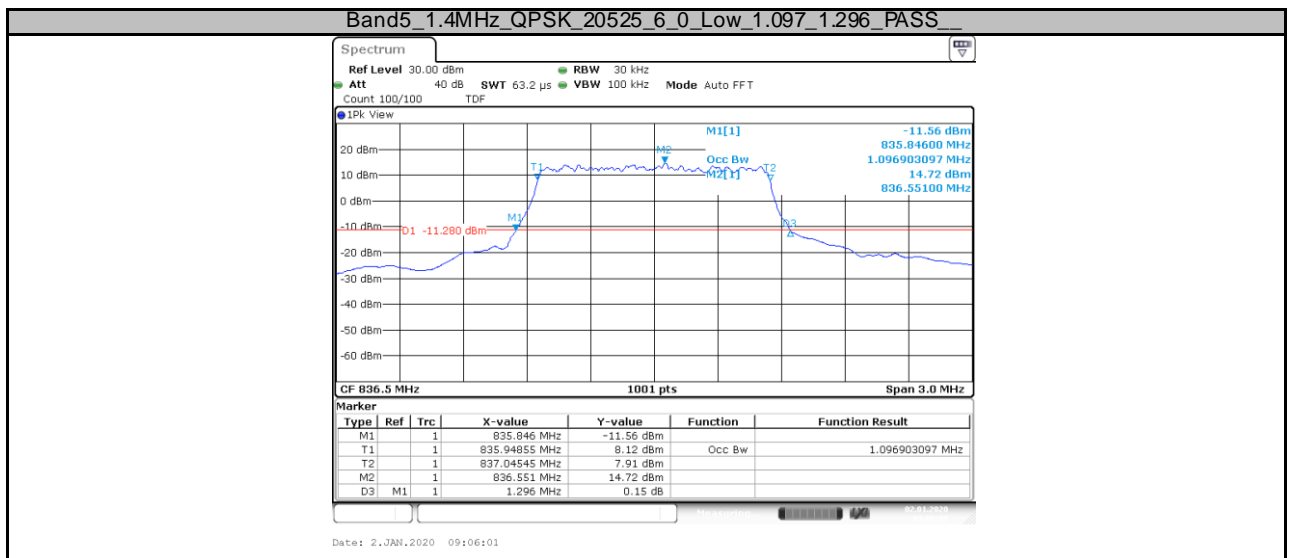
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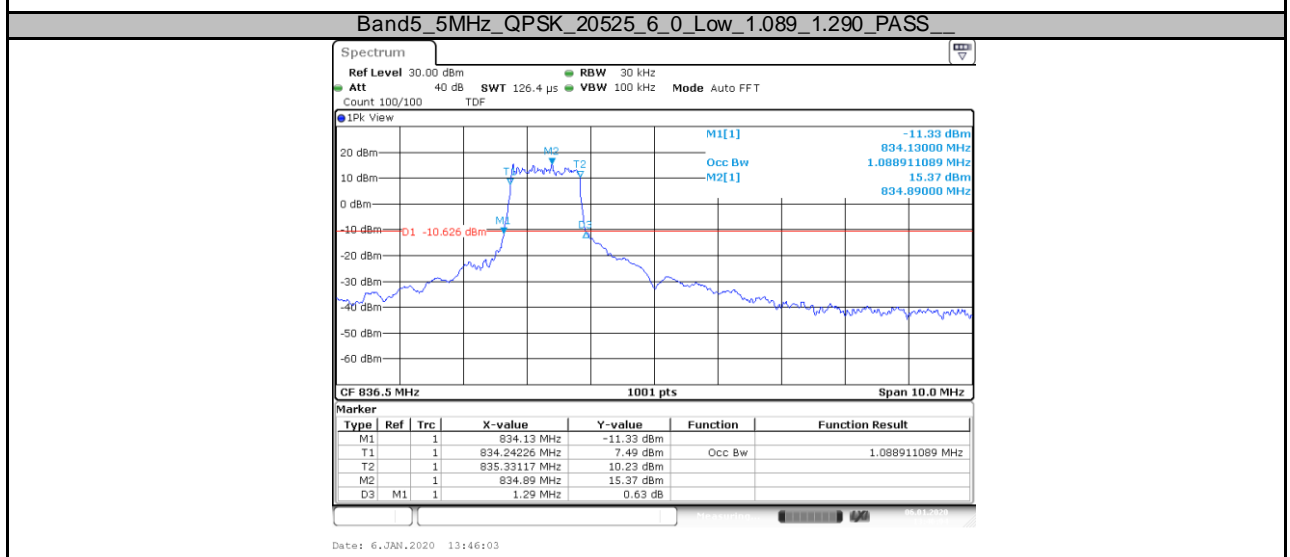
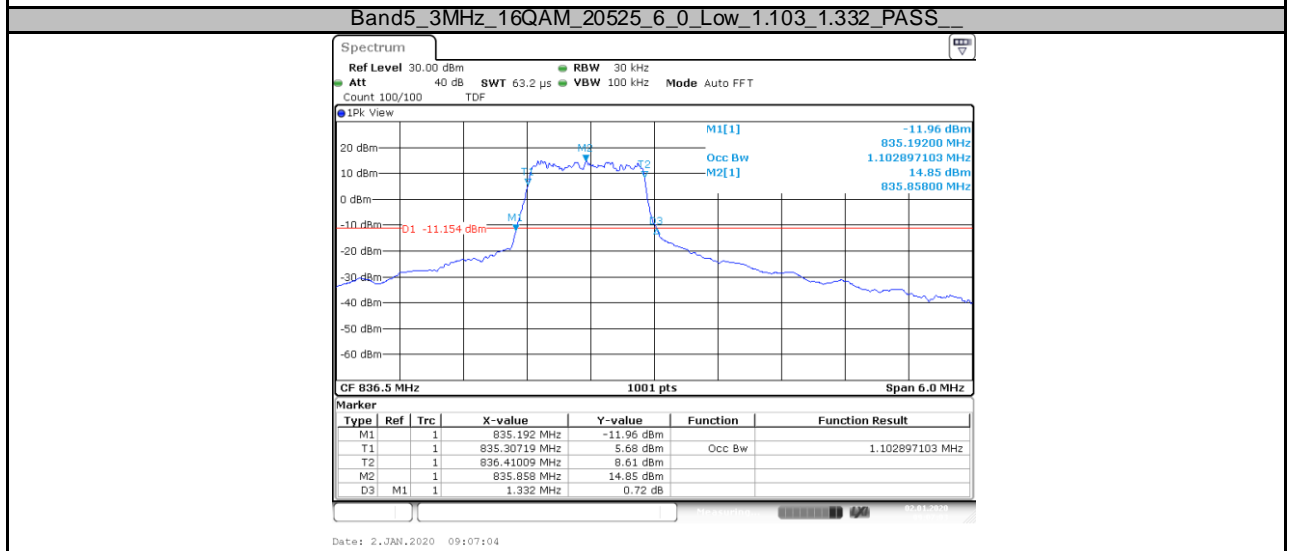
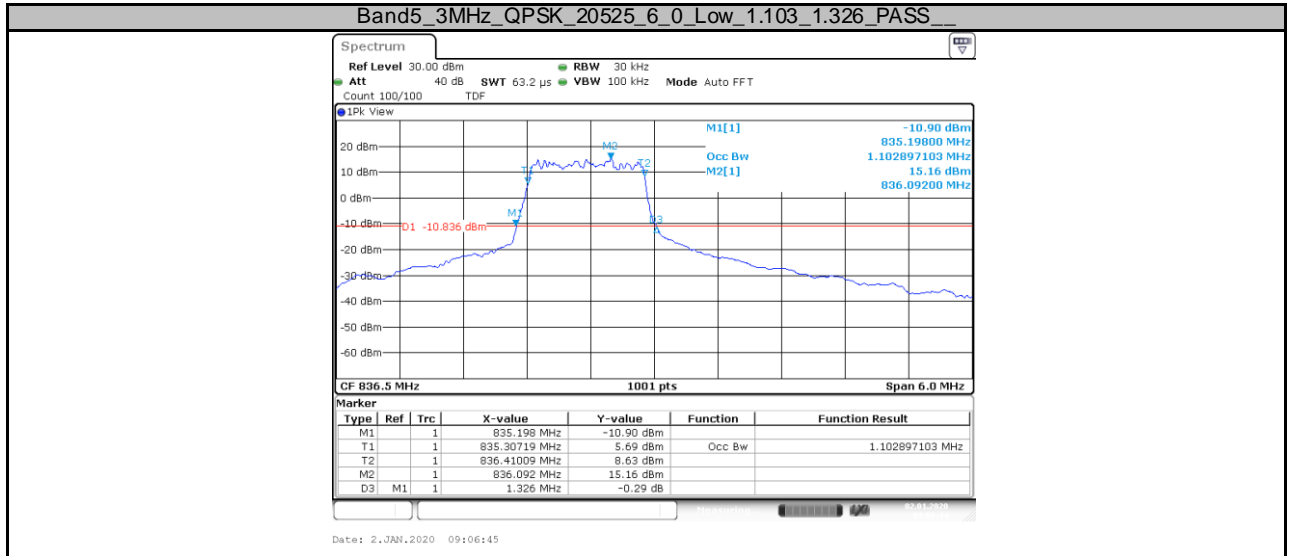
Appendix C.3: 26dB Bandwidth and Occupied Bandwidth for M1

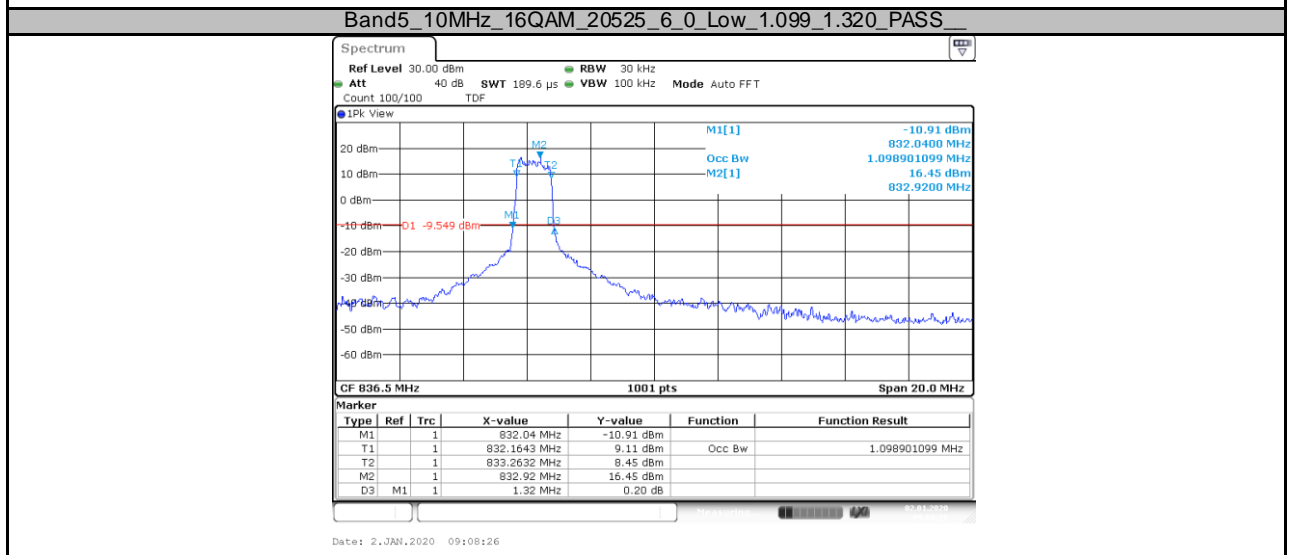
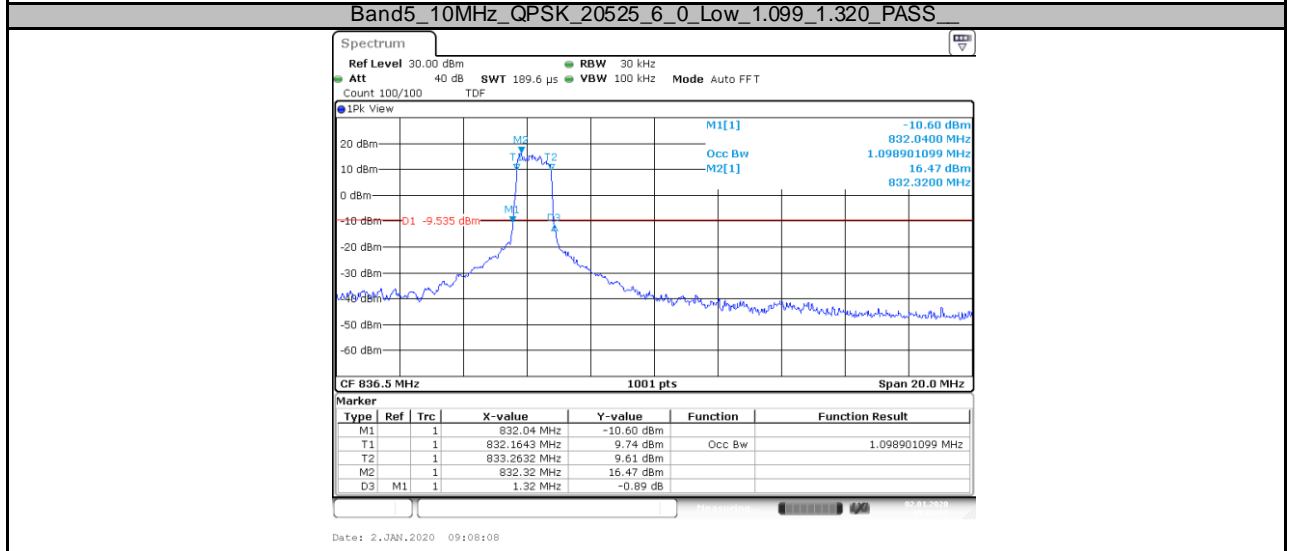
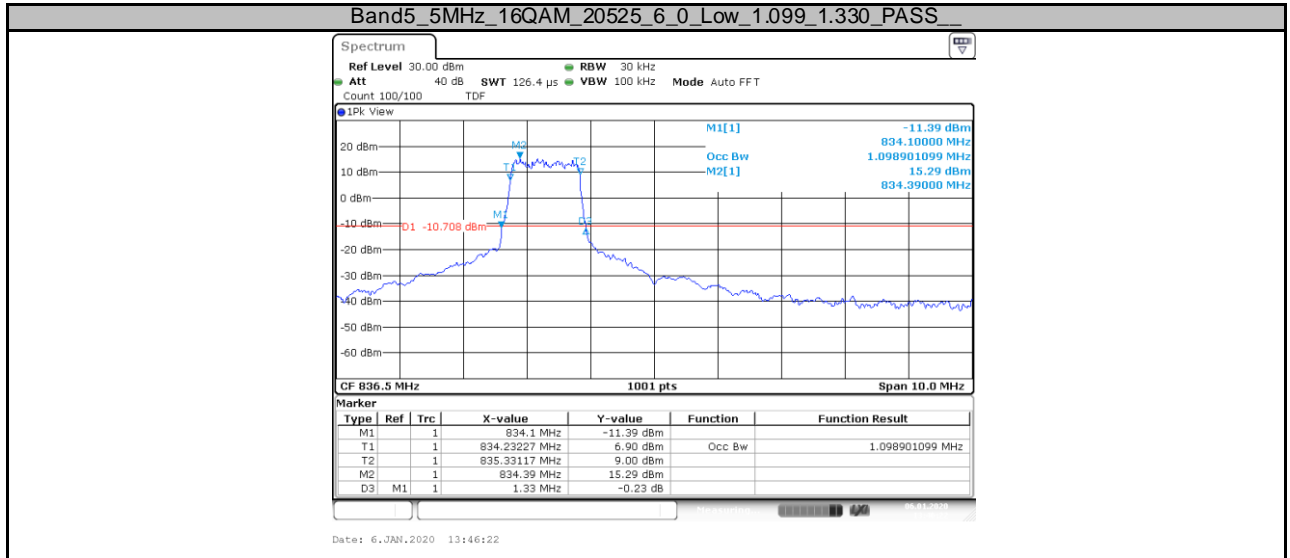
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20525	6	0	Low	1.097	1.296	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	1.1	1.323	PASS
Band5	3MHz	QPSK	20525	6	0	Low	1.103	1.326	PASS
Band5	3MHz	16QAM	20525	6	0	Low	1.103	1.332	PASS
Band5	5MHz	QPSK	20525	6	0	Low	1.089	1.290	PASS
Band5	5MHz	16QAM	20525	6	0	Low	1.099	1.330	PASS
Band5	10MHz	QPSK	20525	6	0	Low	1.099	1.320	PASS
Band5	10MHz	16QAM	20525	6	0	Low	1.099	1.320	PASS

Test Graphs





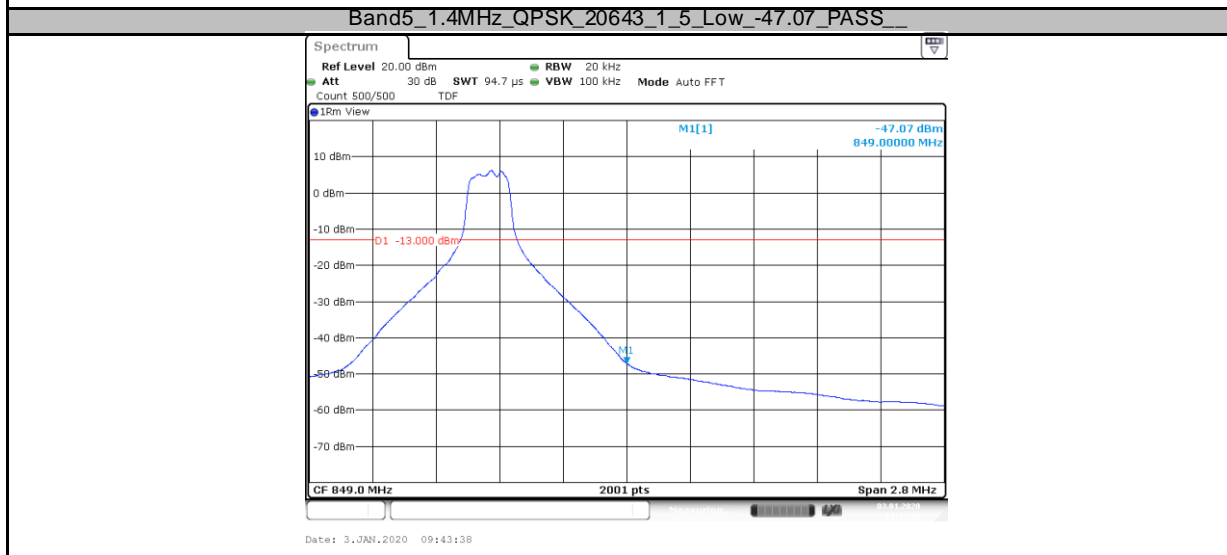
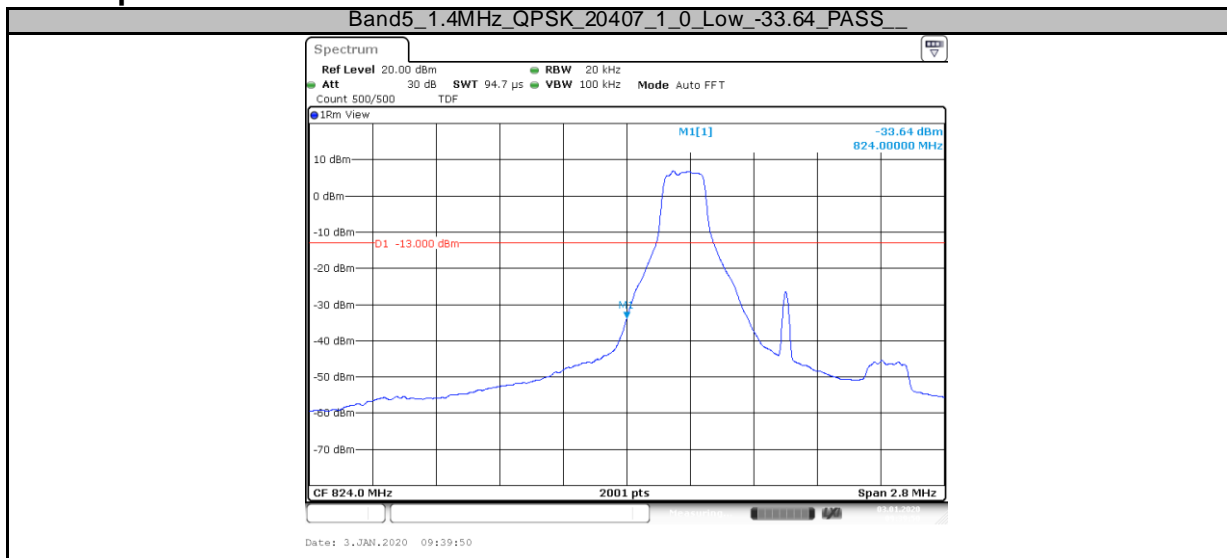


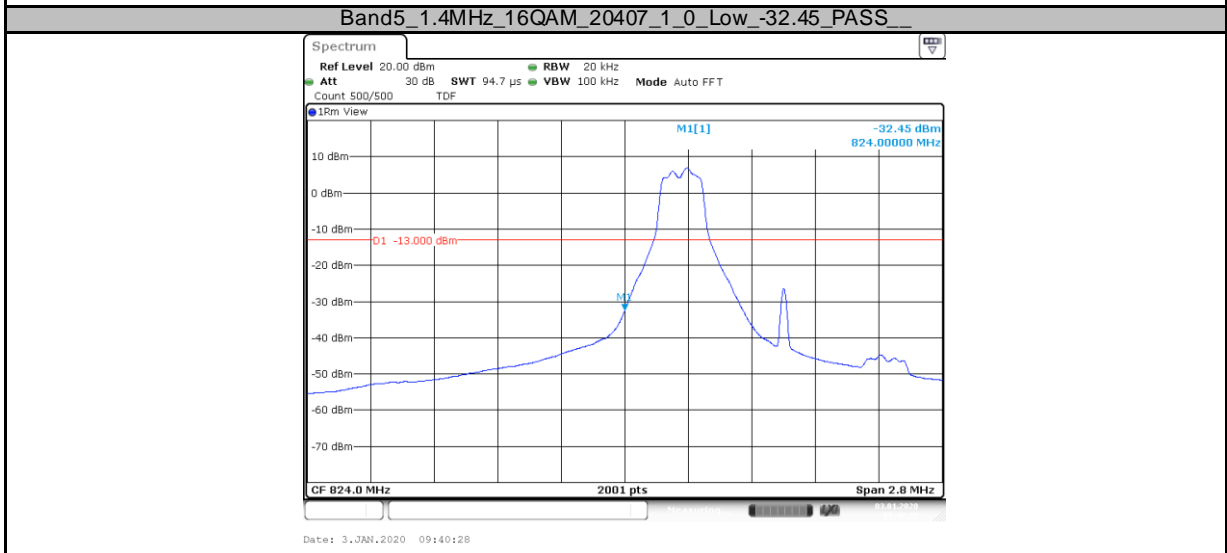
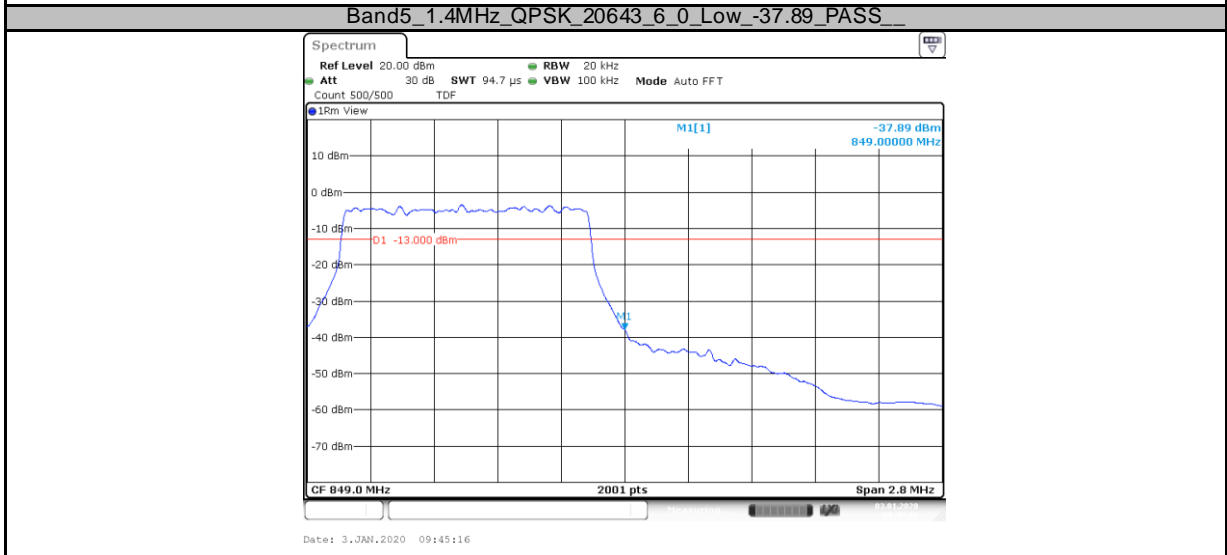
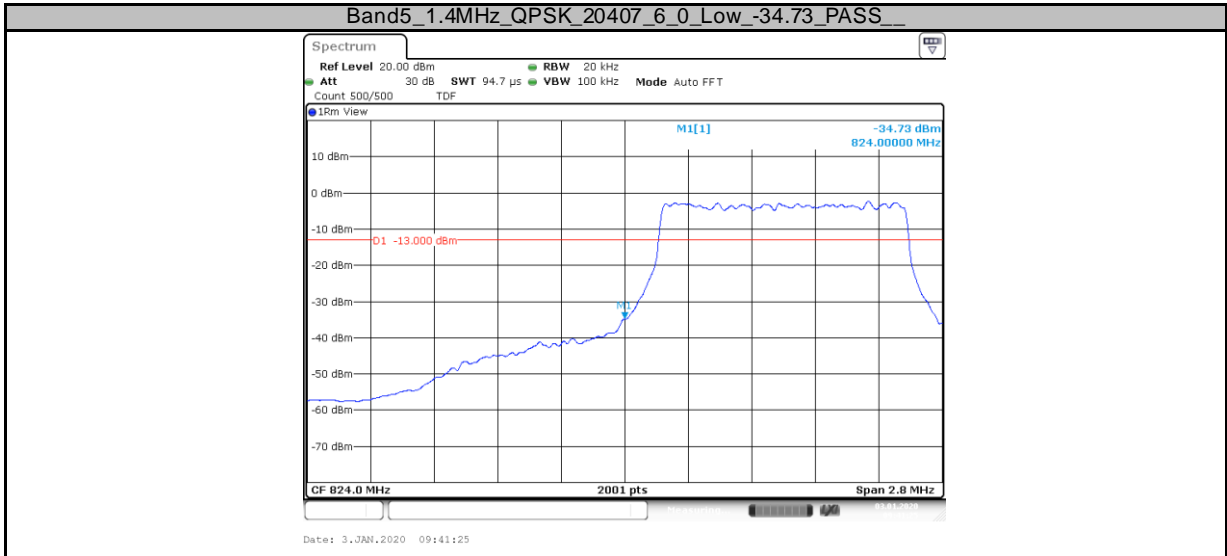
Appendix C.4: Band Edge for M1

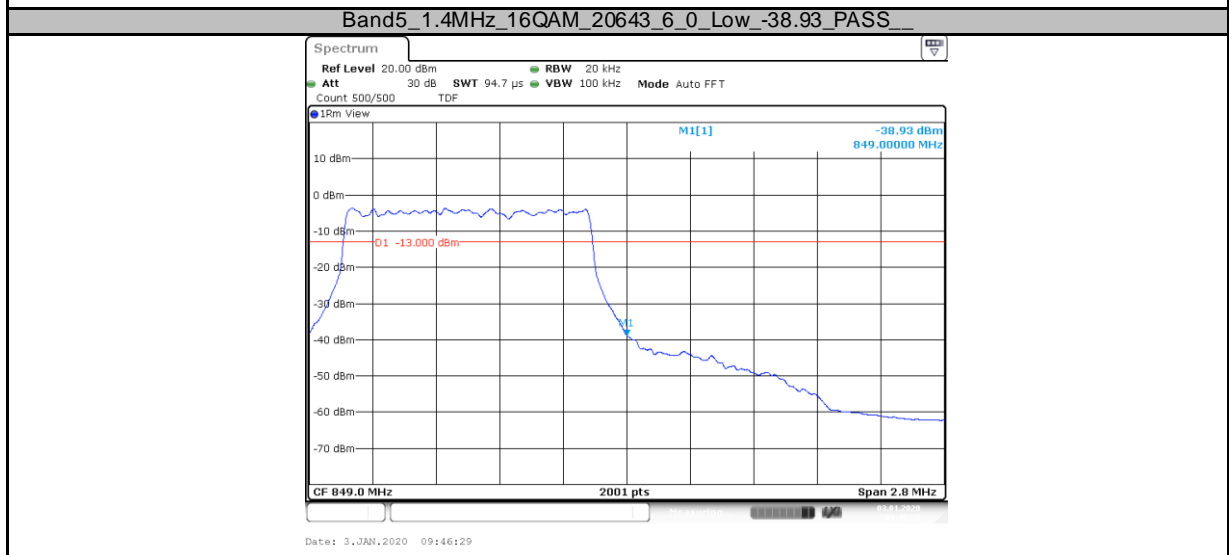
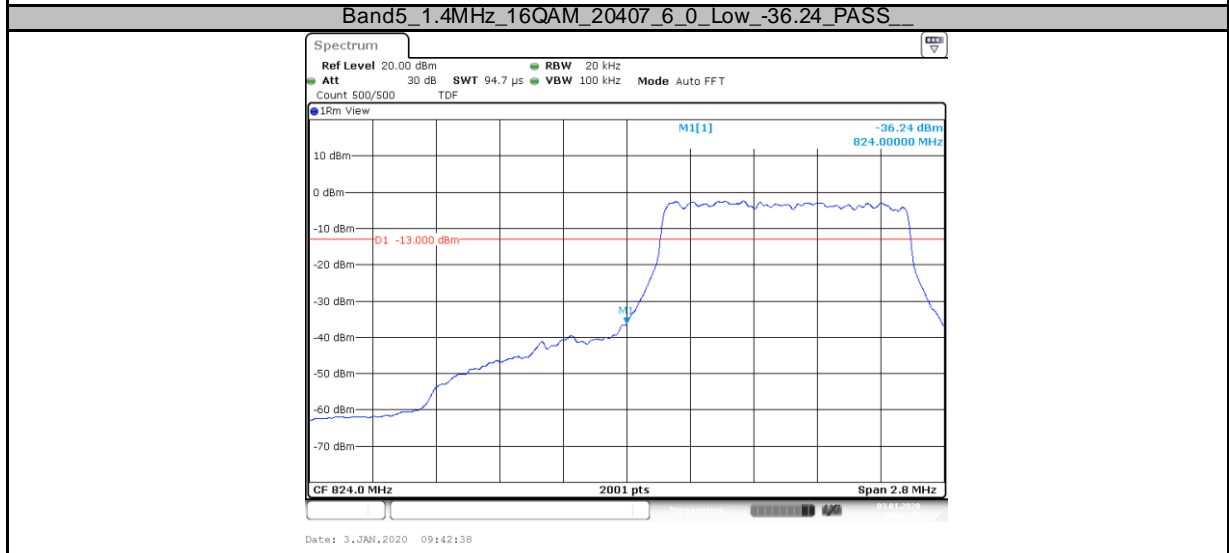
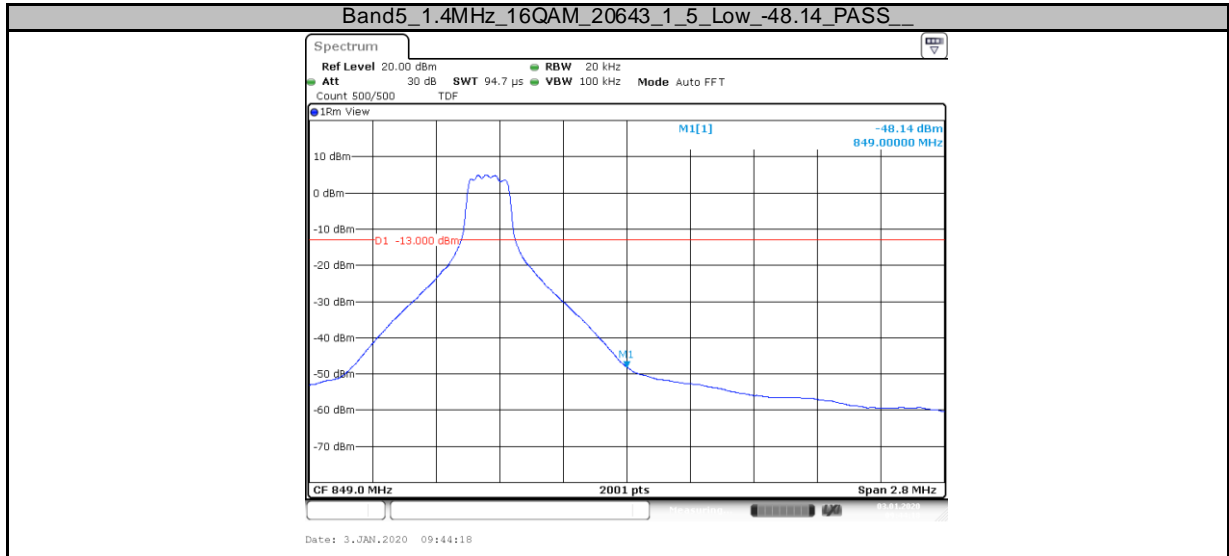
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1	0	Low	-33.64	PASS
Band5	1.4MHz	QPSK	20643	1	5	Low	-47.07	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	-34.73	PASS
Band5	1.4MHz	QPSK	20643	6	0	Low	-37.89	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	-32.45	PASS
Band5	1.4MHz	16QAM	20643	1	5	Low	-48.14	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	-36.24	PASS
Band5	1.4MHz	16QAM	20643	6	0	Low	-38.93	PASS

Test Graphs







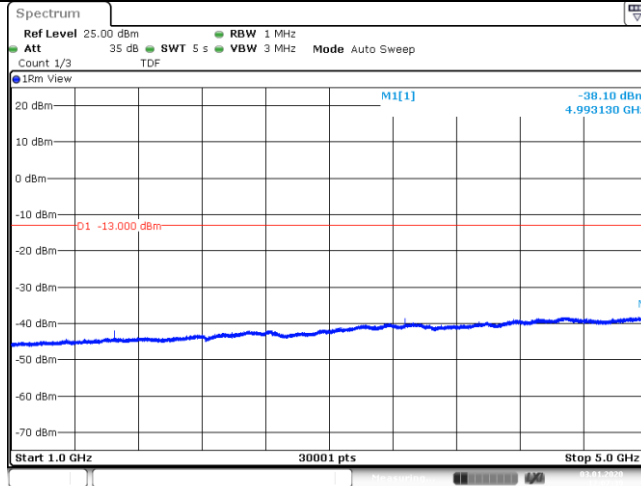
Appendix C.5: Conducted Spurious Emission for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1	0	Low	1000	5000	-38.1	PASS
Band5	1.4MHz	QPSK	20407	1	0	Low	5000	12000	-47.82	PASS
Band5	1.4MHz	QPSK	20407	1	0	Low	12000	26500	-41.74	PASS
Band5	1.4MHz	QPSK	20407	1	0	Low	30	1000	-35.69	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	5000	12000	-47.69	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	1000	5000	-38.13	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	30	1000	-36.1	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	12000	26500	-41.6	PASS
Band5	1.4MHz	QPSK	20643	1	5	Low	5000	12000	-47.68	PASS
Band5	1.4MHz	QPSK	20643	1	5	Low	1000	5000	-38.01	PASS
Band5	1.4MHz	QPSK	20643	1	5	Low	12000	26500	-41.7	PASS
Band5	1.4MHz	QPSK	20643	1	5	Low	30	1000	-35.5	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	5000	12000	-47.73	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	12000	26500	-41.51	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	1000	5000	-38.17	PASS
Band5	1.4MHz	QPSK	20407	6	0	Low	30	1000	-35.83	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	30	1000	-35.58	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	5000	12000	-47.61	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	1000	5000	-38.15	PASS
Band5	1.4MHz	QPSK	20525	6	0	Low	12000	26500	-41.78	PASS
Band5	1.4MHz	QPSK	20643	6	0	Low	30	1000	-36.29	PASS
Band5	1.4MHz	QPSK	20643	6	0	Low	1000	5000	-38.13	PASS
Band5	1.4MHz	QPSK	20643	6	0	Low	5000	12000	-47.74	PASS
Band5	1.4MHz	QPSK	20643	6	0	Low	12000	26500	-41.85	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	30	1000	-35.62	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	1000	5000	-38.05	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	12000	26500	-41.6	PASS
Band5	1.4MHz	16QAM	20407	1	0	Low	5000	12000	-47.59	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	1000	5000	-37.97	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	12000	26500	-41.71	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	30	1000	-35.55	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	5000	12000	-47.79	PASS
Band5	1.4MHz	16QAM	20643	1	5	Low	12000	26500	-41.69	PASS
Band5	1.4MHz	16QAM	20643	1	5	Low	5000	12000	-47.76	PASS
Band5	1.4MHz	16QAM	20643	1	5	Low	1000	5000	-37.96	PASS
Band5	1.4MHz	16QAM	20643	1	5	Low	30	1000	-34.11	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	12000	26500	-41.64	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	5000	12000	-47.76	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	1000	5000	-38.17	PASS
Band5	1.4MHz	16QAM	20407	6	0	Low	30	1000	-36.08	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	1000	5000	-38.06	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	5000	12000	-47.67	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	30	1000	-35.8	PASS
Band5	1.4MHz	16QAM	20525	6	0	Low	12000	26500	-41.62	PASS
Band5	1.4MHz	16QAM	20643	6	0	Low	12000	26500	-41.69	PASS
Band5	1.4MHz	16QAM	20643	6	0	Low	30	1000	-36.23	PASS
Band5	1.4MHz	16QAM	20643	6	0	Low	1000	5000	-38.13	PASS
Band5	1.4MHz	16QAM	20643	6	0	Low	5000	12000	-47.71	PASS

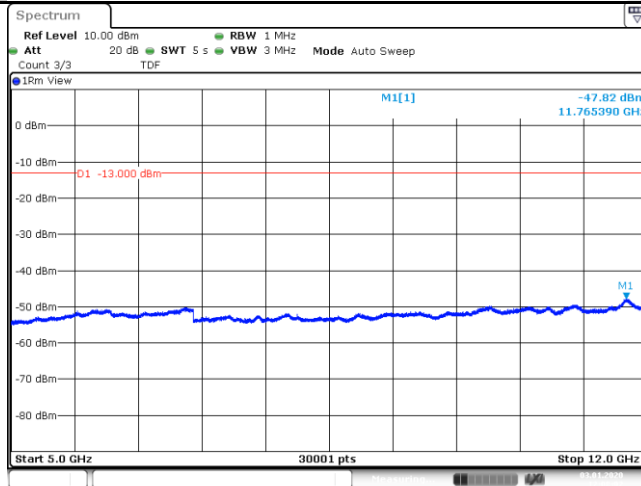
Test Graphs

Band5_1.4MHz_QPSK_20407_1_0_Low_1000_5000_-38.1_PASS_



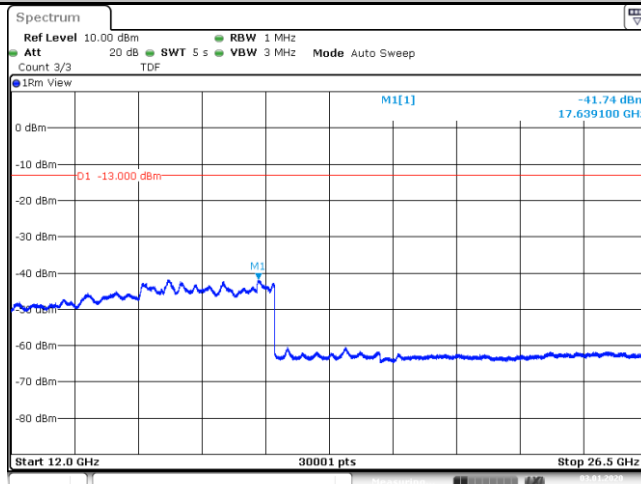
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Band5_1.4MHz_QPSK_20407_1_0_Low_5000_12000_-47.82_PASS_



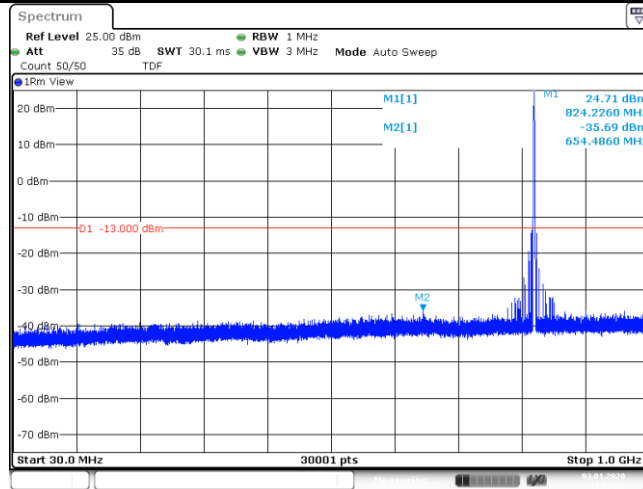
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Band5_1.4MHz_QPSK_20407_1_0_Low_12000_26500_-41.74_PASS_

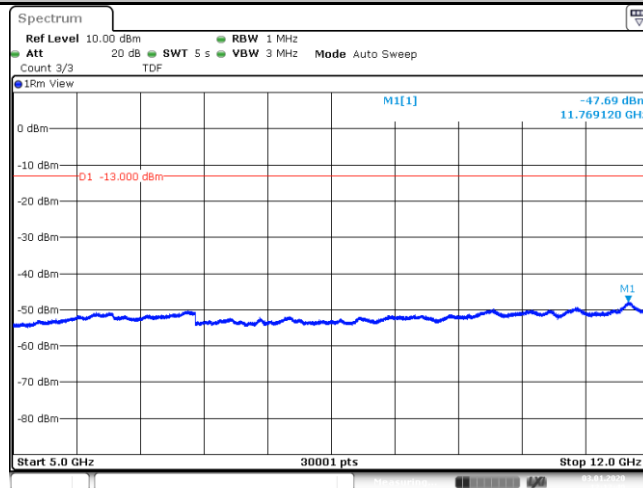


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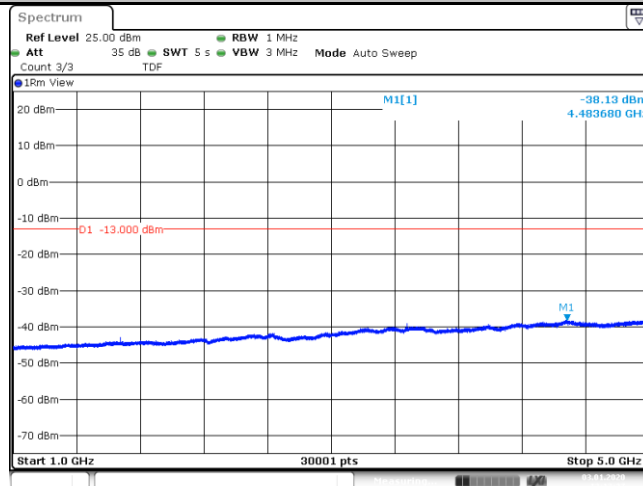
Band5_1.4MHz_QPSK_20407_1_0_Low_30_1000_-35.69_PASS_



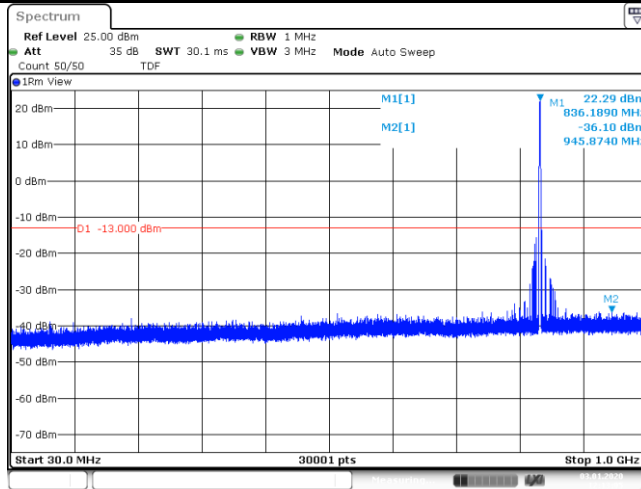
Band5_1.4MHz_QPSK_20525_1_0_Low_5000_12000_-47.69_PASS_



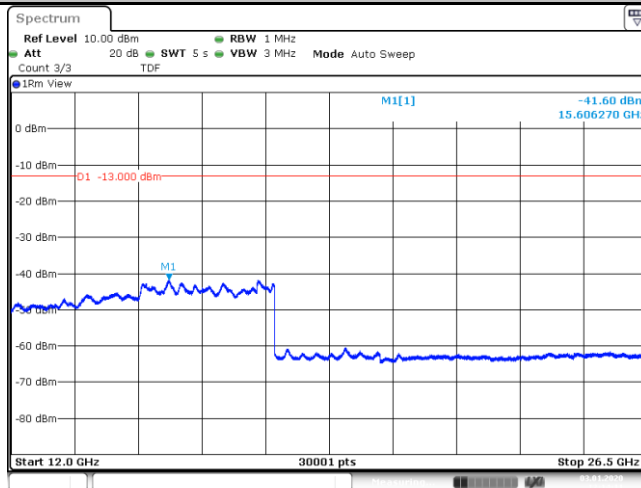
Band5_1.4MHz_QPSK_20525_1_0_Low_1000_5000_-38.13_PASS_



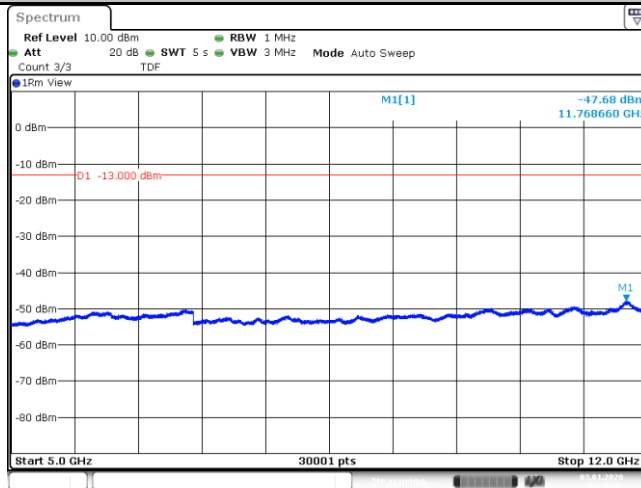
Band5_1.4MHz_QPSK_20525_1_0_Low_30_1000_-36.1_PASS_



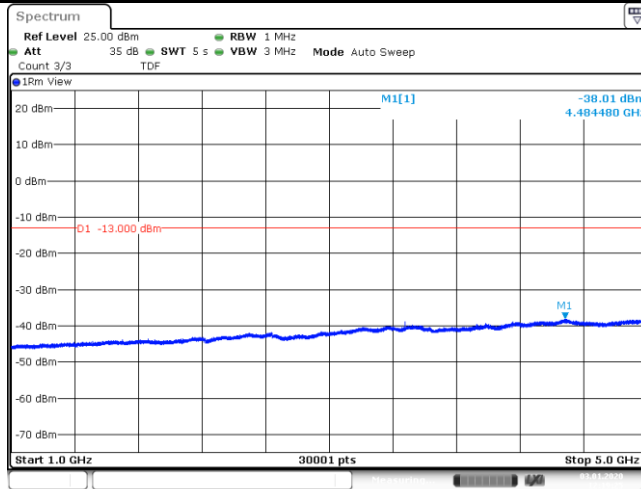
Band5_1.4MHz_QPSK_20525_1_0_Low_12000_26500_-41.6_PASS_



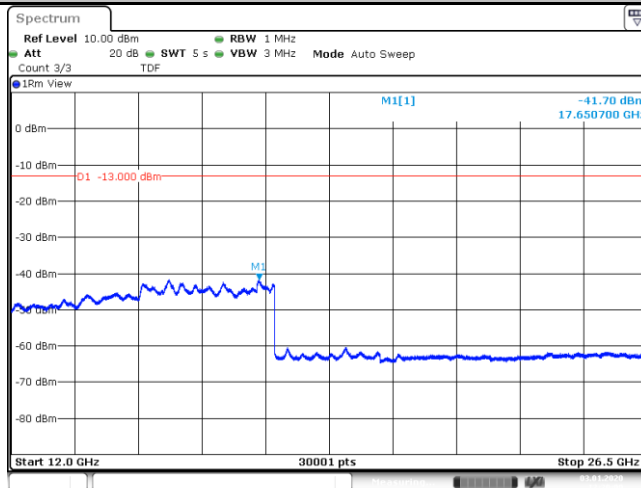
Band5_1.4MHz_QPSK_20643_1_5_Low_5000_12000_-47.68_PASS_



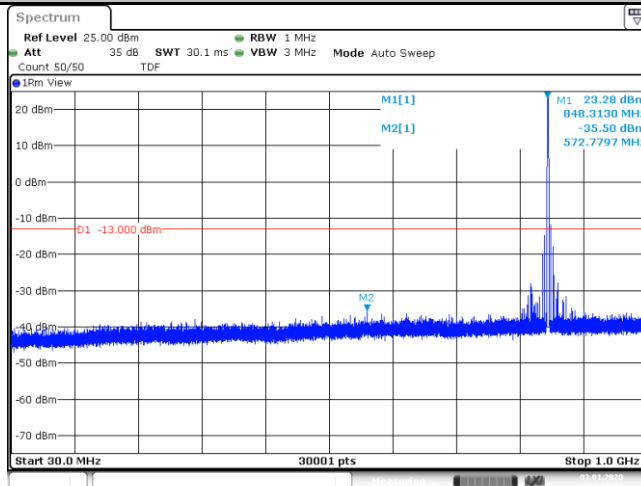
Band5_1.4MHz_QPSK_20643_1_5_Low_1000_5000_-38.01_PASS__



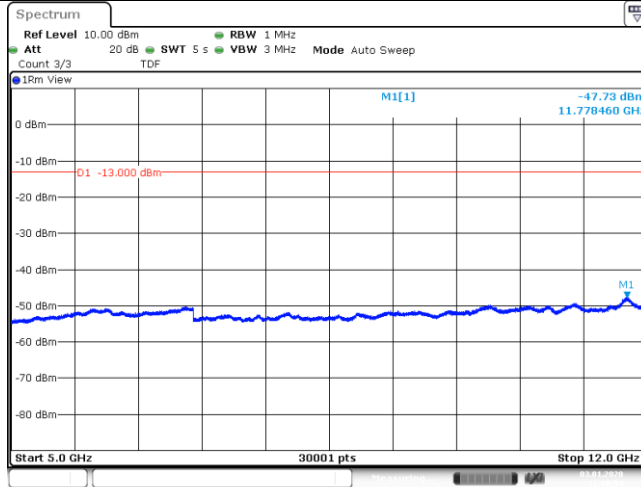
Band5_1.4MHz_QPSK_20643_1_5_Low_12000_26500_-41.7_PASS__



Band5_1.4MHz_QPSK_20643_1_5_Low_30_1000_-35.5_PASS__

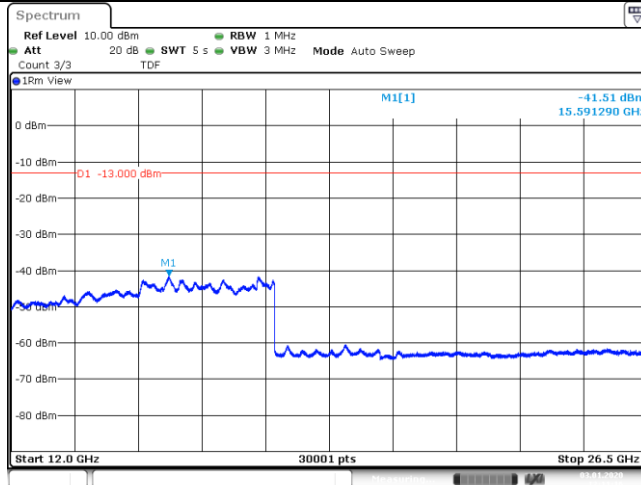


Band5_1.4MHz_QPSK_20407_6_0_Low_5000_12000_-47.73_PASS__



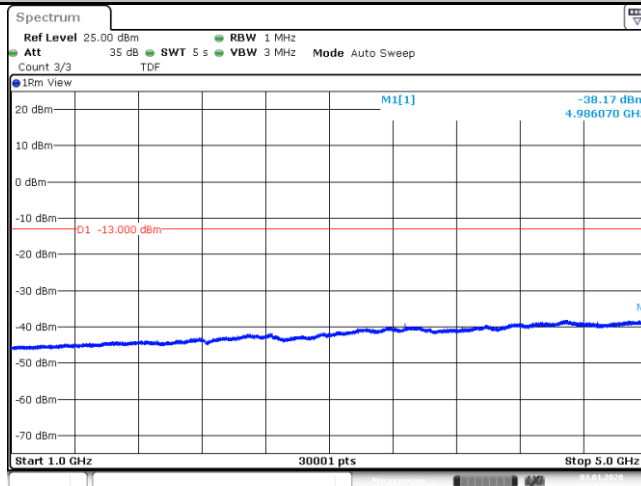
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Band5_1.4MHz_QPSK_20407_6_0_Low_12000_26500_-41.51_PASS__



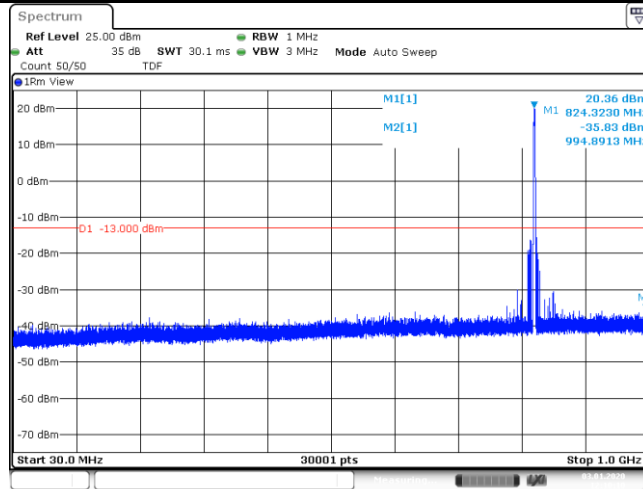
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Band5_1.4MHz_QPSK_20407_6_0_Low_1000_5000_-38.17_PASS__

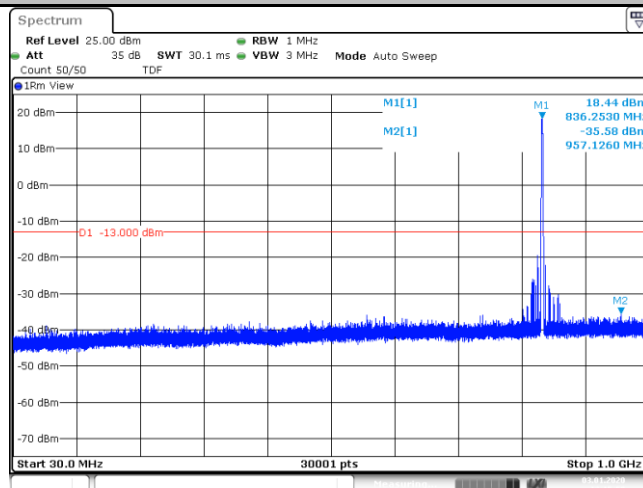


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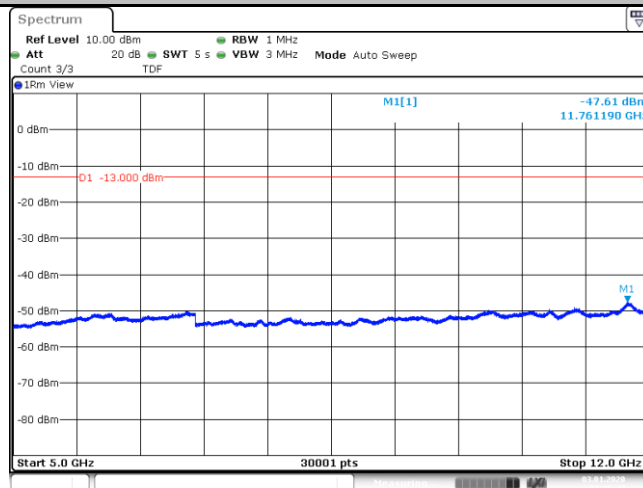
Band5_1.4MHz_QPSK_20407_6_0_Low_30_1000_-35.83_PASS_



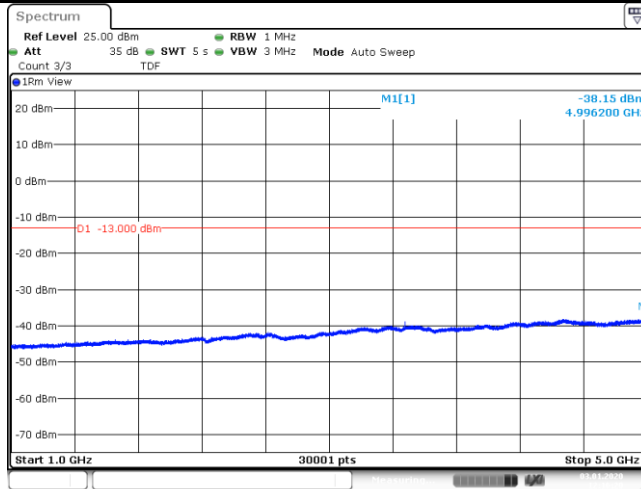
Band5_1.4MHz_QPSK_20525_6_0_Low_30_1000_-35.58_PASS_



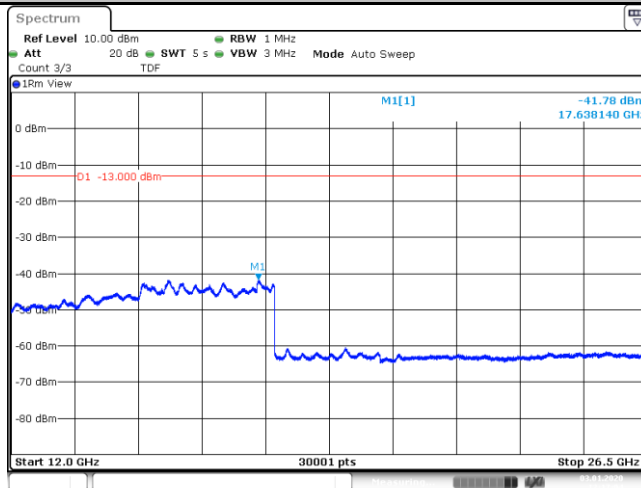
Band5_1.4MHz_QPSK_20525_6_0_Low_5000_12000_-47.61_PASS_



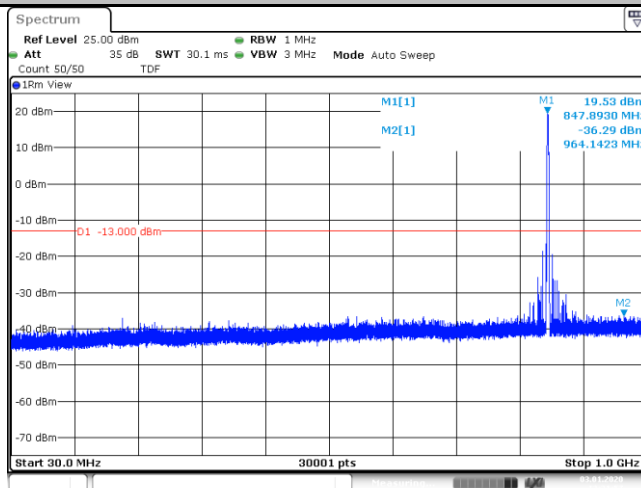
Band5_1.4MHz_QPSK_20525_6_0_Low_1000_5000_-38.15_PASS__



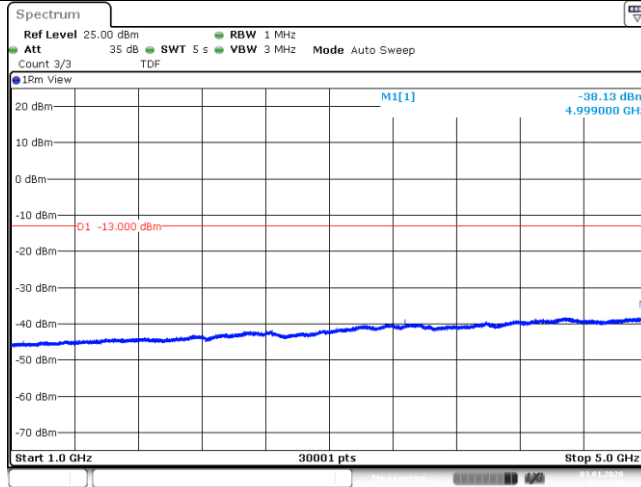
Band5_1.4MHz_QPSK_20525_6_0_Low_12000_26500_-41.78_PASS__



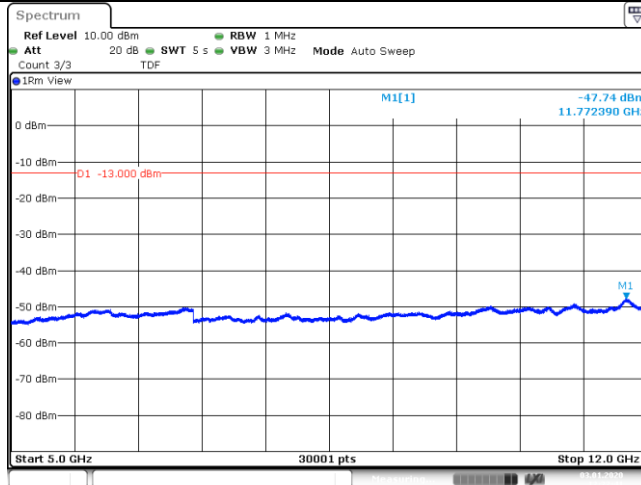
Band5_1.4MHz_QPSK_20643_6_0_Low_30_1000_-36.29_PASS__



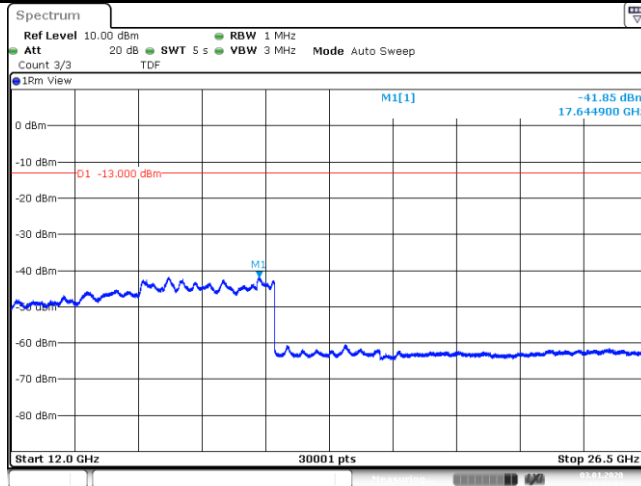
Band5_1.4MHz_QPSK_20643_6_0_Low_1000_5000_-38.13_PASS__



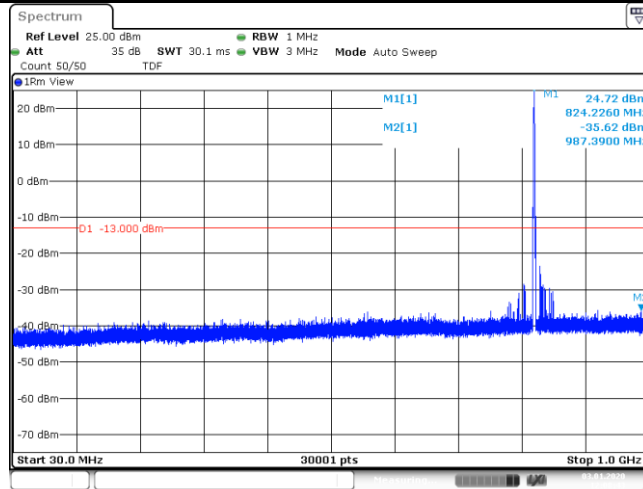
Band5_1.4MHz_QPSK_20643_6_0_Low_5000_12000_-47.74_PASS__



Band5_1.4MHz_QPSK_20643_6_0_Low_12000_26500_-41.85_PASS__

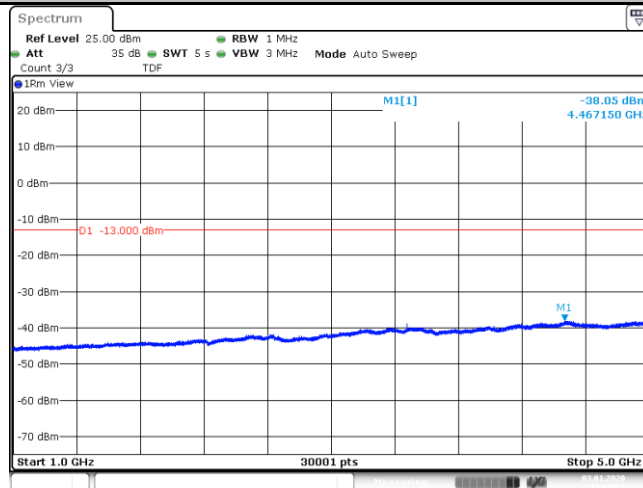


Band5_1.4MHz_16QAM_20407_1_0_Low_30_1000_-35.62_PASS_



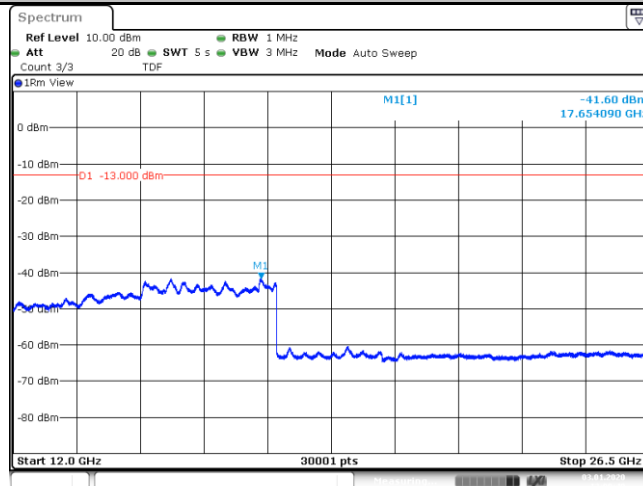
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Band5_1.4MHz_16QAM_20407_1_0_Low_1000_5000_-38.05_PASS_



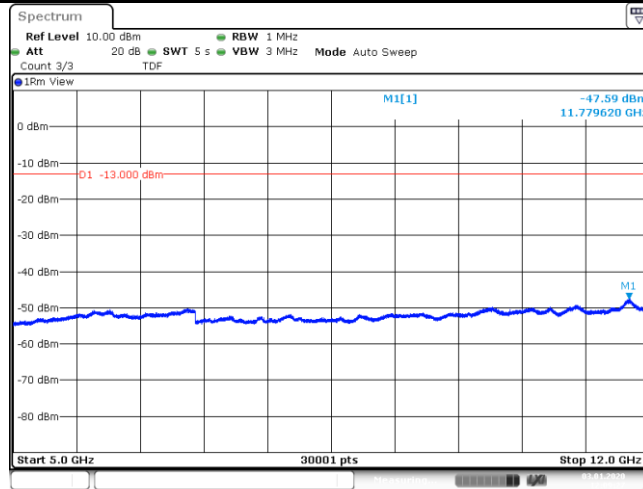
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Band5_1.4MHz_16QAM_20407_1_0_Low_12000_26500_-41.6_PASS_



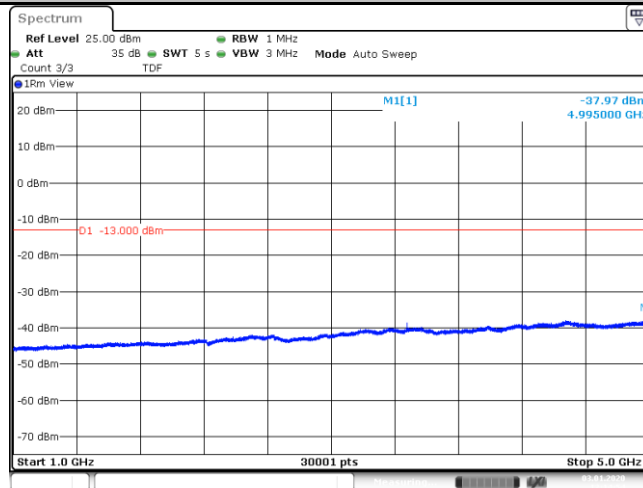
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Band5_1.4MHz_16QAM_20407_1_0_Low_5000_12000_-47.59_PASS_



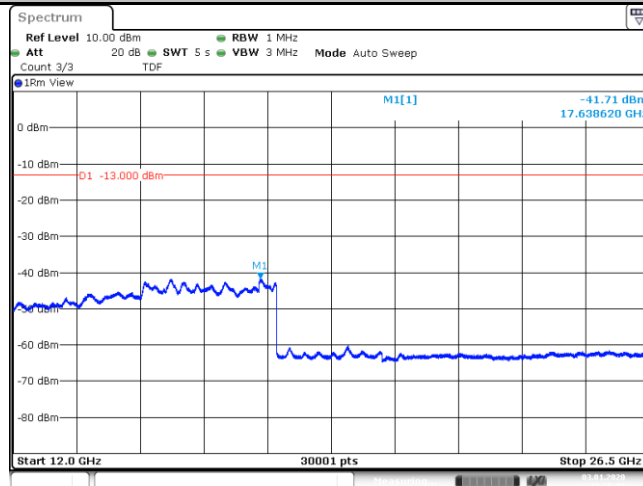
Date: 3.JAN.2020 12:09:28

Band5_1.4MHz_16QAM_20525_1_0_Low_1000_5000_-37.97_PASS_



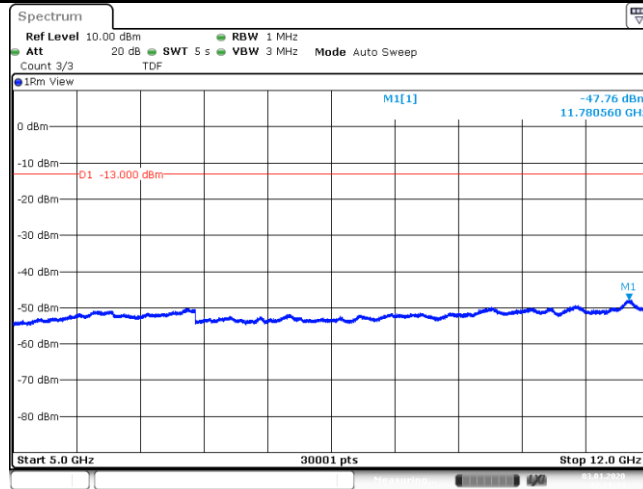
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Band5_1.4MHz_16QAM_20525_1_0_Low_12000_26500_-41.71_PASS_



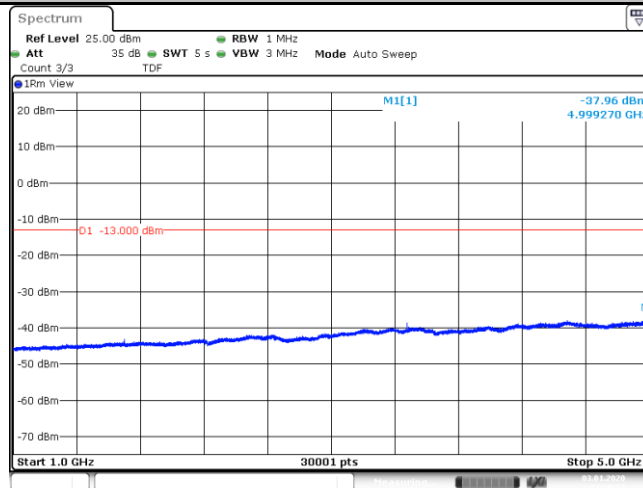
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Band5_1.4MHz_16QAM_20643_1_5_Low_5000_12000_-47.76_PASS_



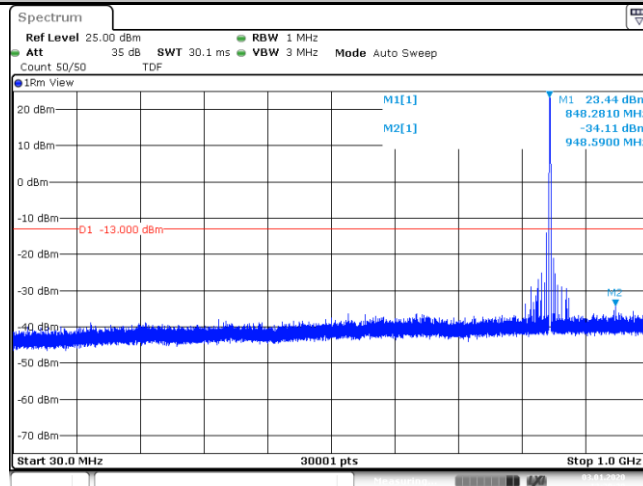
Date: 3.JAN.2020 12:21:15

Band5_1.4MHz_16QAM_20643_1_5_Low_1000_5000_-37.96_PASS_



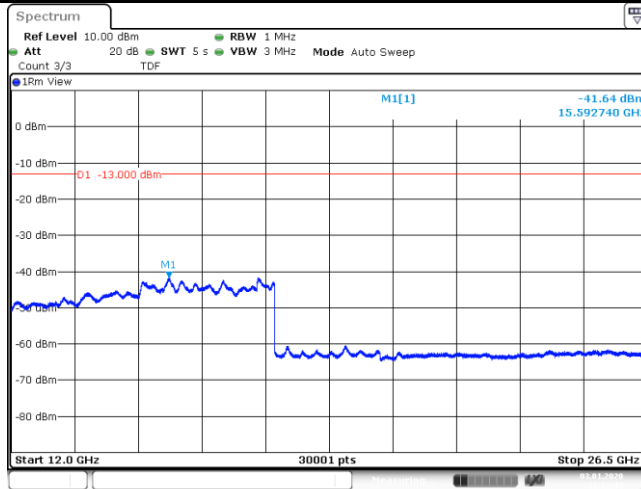
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Band5_1.4MHz_16QAM_20643_1_5_Low_30_1000_-34.11_PASS_

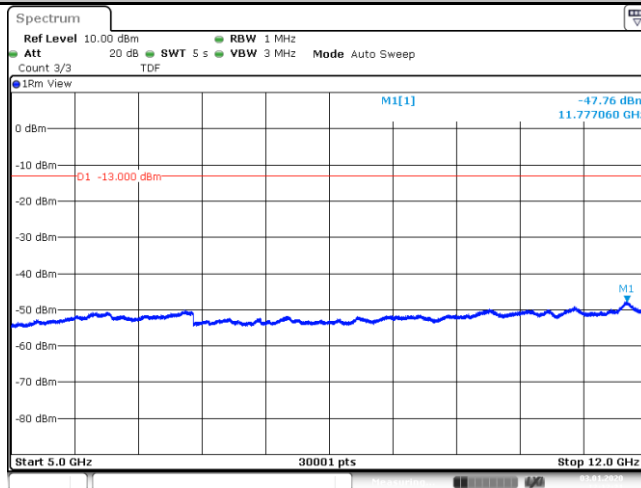


Date: 3.JAN.2020 12:20:31

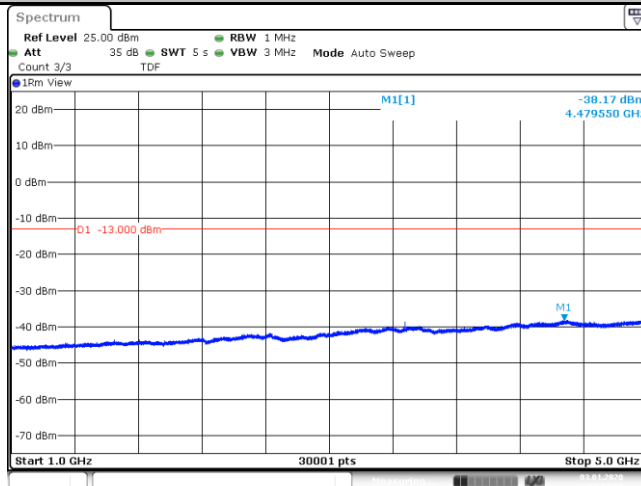
Band5_1.4MHz_16QAM_20407_6_0_Low_12000_26500_-41.64_PASS__



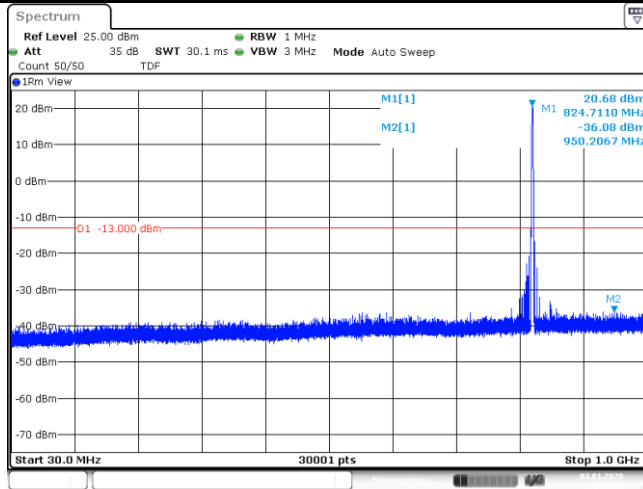
Band5_1.4MHz_16QAM_20407_6_0_Low_5000_12000_-47.76_PASS__



Band5_1.4MHz_16QAM_20407_6_0_Low_1000_5000_-38.17_PASS__

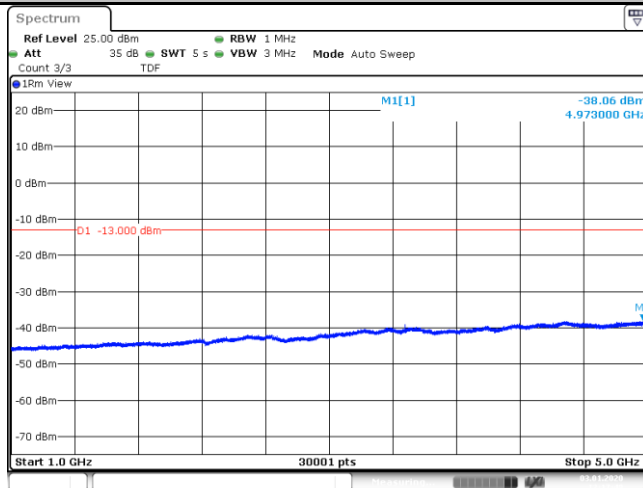


Band5_1.4MHz_16QAM_20407_6_0_Low_30_1000_-36.08_PASS



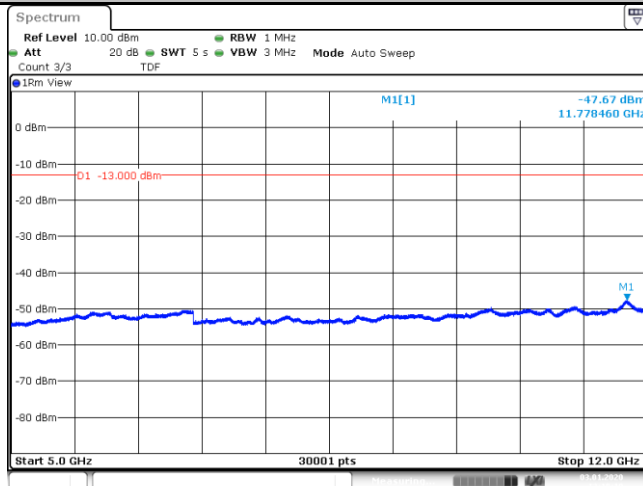
Date: 3.JAN.2020 12:11:38

Band5_1.4MHz_16QAM_20525_6_0_Low_1000_5000_-38.06_PASS



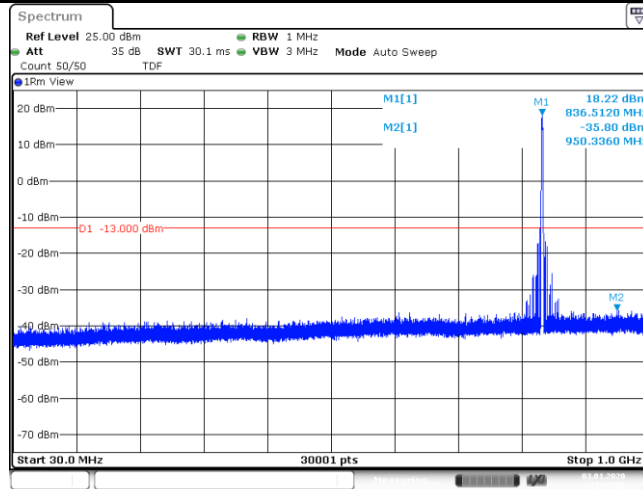
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Band5_1.4MHz_16QAM_20525_6_0_Low_5000_12000_-47.67_PASS



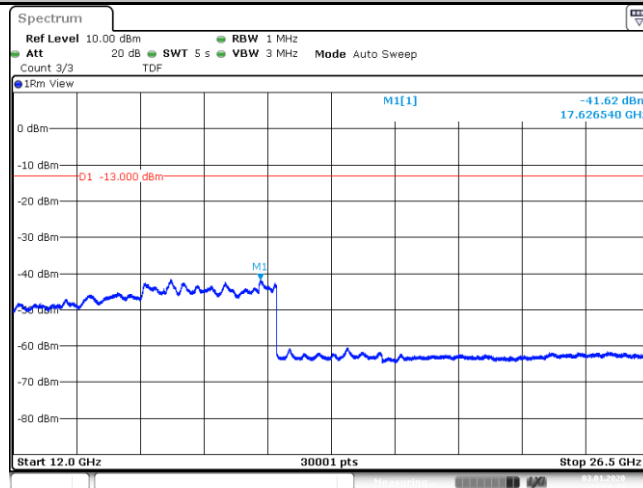
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Band5_1.4MHz_16QAM_20525_6_0_Low_30_1000_-35.8_PASS__



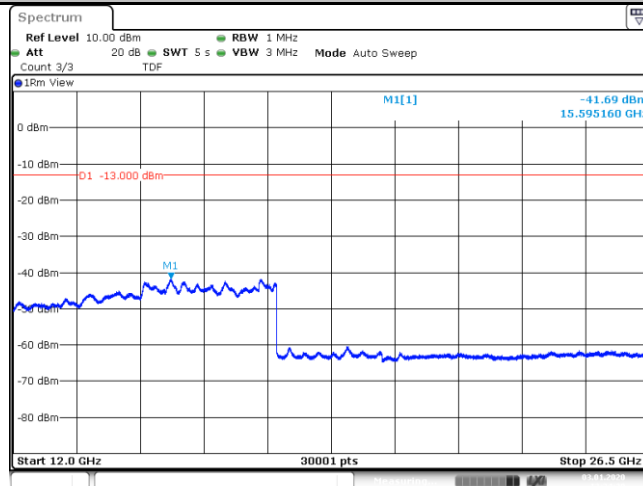
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Band5_1.4MHz_16QAM_20525_6_0_Low_12000_26500_-41.62_PASS__



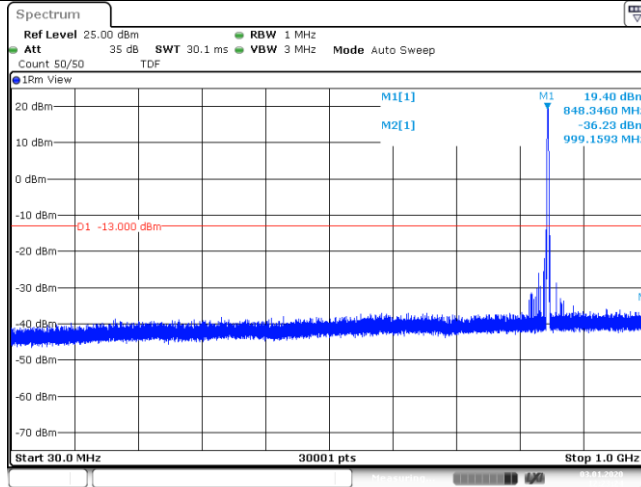
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Band5_1.4MHz_16QAM_20643_6_0_Low_12000_26500_-41.69_PASS__



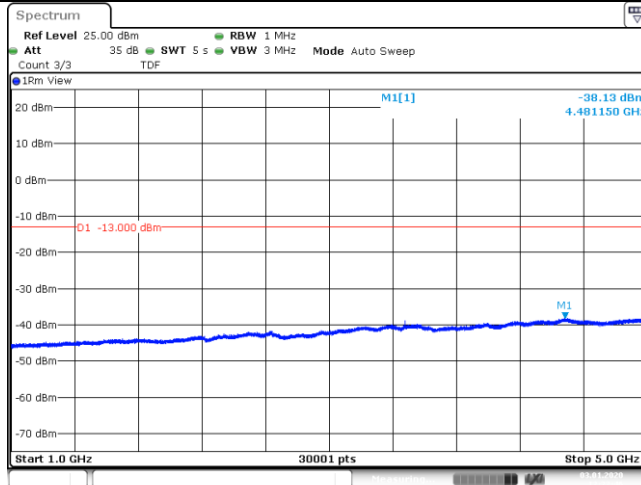
Date: 3.JAN.2020 12:24:31

Band5_1.4MHz_16QAM_20643_6_0_Low_30_1000_-36.23_PASS_



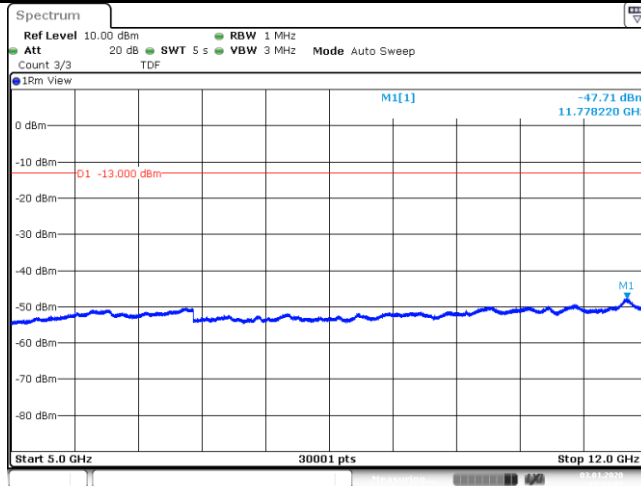
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Band5_1.4MHz_16QAM_20643_6_0_Low_1000_5000_-38.13_PASS_



Date: 3.JAN.2020 12:23:47

Band5_1.4MHz_16QAM_20643_6_0_Low_5000_12000_-47.71_PASS_



Date: 3.JAN.2020 12:24:09

Appendix C.6: Frequency Stability for M1

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20525	1	0	Low	HV	NT	-17.48	-0.020897	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	LV	NT	-14.26	-0.017047	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	NT	-16.19	-0.019354	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	HV	NT	-15.02	-0.017956	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	LV	NT	-14.71	-0.017585	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	NT	-15.95	-0.019068	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	85	-14.19	-0.016964	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	-30	-14.75	-0.017633	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	-20	-14.75	-0.017633	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	-10	-14.09	-0.016844	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	0	-13.73	-0.016414	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	10	-12.70	-0.015182	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	20	-14.18	-0.016952	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	30	-13.32	-0.015923	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	40	-12.99	-0.015529	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	50	-14.29	-0.017083	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	60	-14.31	-0.017107	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	70	-14.73	-0.017609	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	-40	-13.93	-0.016653	±2.5	PASS
Band5	1.4MHz	QPSK	20525	1	0	Low	NV	80	-13.86	-0.016569	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	85	-13.53	-0.016175	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	-30	-13.30	-0.015900	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	-20	-13.45	-0.016079	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	-10	-13.95	-0.016677	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	0	-15.64	-0.018697	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	10	-14.83	-0.017729	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	20	-13.46	-0.016091	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	30	-11.80	-0.014106	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	40	-13.12	-0.015684	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	50	-13.05	-0.015601	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	60	-13.22	-0.015804	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	70	-14.61	-0.017466	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	80	-15.03	-0.017968	±2.5	PASS
Band5	1.4MHz	16QAM	20525	1	0	Low	NV	-40	-13.23	-0.015816	±2.5	PASS

Appendix D: Test Results of Band 12 for eMTC operation

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Appendix D.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

Test Result

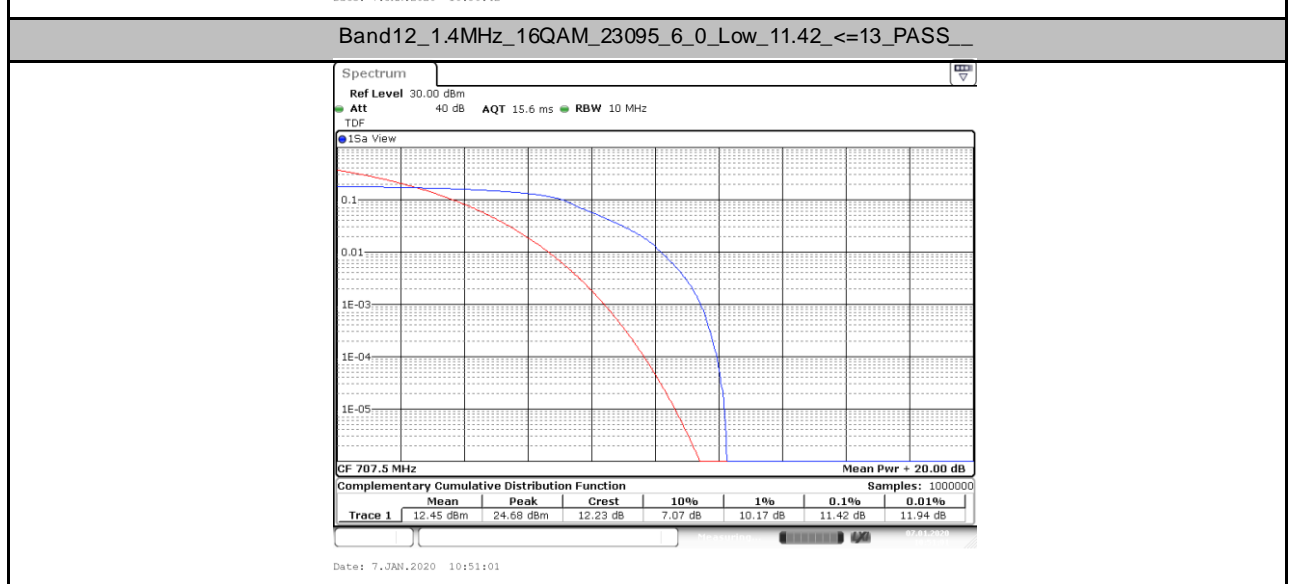
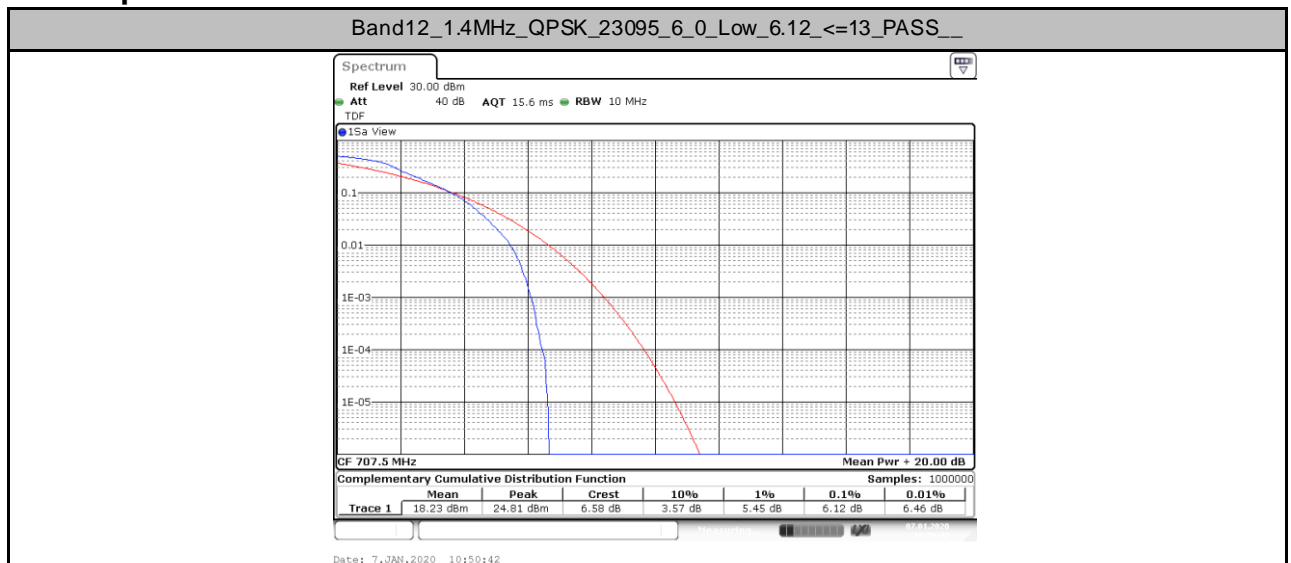
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP		Limit (watts)	Verdict
								dBm	Watts		
Band12	1.4MHz	QPSK	23017	1	0	Low	22.87	22.86	0.193	3	PASS
Band12	1.4MHz	QPSK	23095	1	0	Low	22.78	22.77	0.189	3	PASS
Band12	1.4MHz	QPSK	23173	1	5	Low	22.72	22.71	0.187	3	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	20.76	20.75	0.119	3	PASS
Band12	1.4MHz	QPSK	23095	6	0	Low	20.6	20.59	0.115	3	PASS
Band12	1.4MHz	QPSK	23173	6	0	Low	20.61	20.6	0.115	3	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	22.06	22.05	0.160	3	PASS
Band12	1.4MHz	16QAM	23095	1	0	Low	21.91	21.9	0.155	3	PASS
Band12	1.4MHz	16QAM	23173	1	5	Low	21.85	21.84	0.153	3	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	20.78	20.77	0.119	3	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	20.6	20.59	0.115	3	PASS
Band12	1.4MHz	16QAM	23173	6	0	Low	20.62	20.61	0.115	3	PASS
Band12	3MHz	QPSK	23025	1	0	Low	22.95	22.94	0.197	3	PASS
Band12	3MHz	QPSK	23095	1	0	Low	22.78	22.77	0.189	3	PASS
Band12	3MHz	QPSK	23165	1	5	High	22.72	22.71	0.187	3	PASS
Band12	3MHz	QPSK	23025	6	0	Low	20.75	20.74	0.119	3	PASS
Band12	3MHz	QPSK	23095	6	0	Low	20.57	20.56	0.114	3	PASS
Band12	3MHz	QPSK	23165	6	0	High	20.59	20.58	0.114	3	PASS
Band12	3MHz	16QAM	23025	1	0	Low	22.07	22.06	0.161	3	PASS
Band12	3MHz	16QAM	23095	1	0	Low	21.88	21.87	0.154	3	PASS
Band12	3MHz	16QAM	23165	1	5	High	21.84	21.83	0.152	3	PASS
Band12	3MHz	16QAM	23025	6	0	Low	20.74	20.73	0.118	3	PASS
Band12	3MHz	16QAM	23095	6	0	Low	20.61	20.6	0.115	3	PASS
Band12	3MHz	16QAM	23165	6	0	High	20.58	20.57	0.114	3	PASS
Band12	5MHz	QPSK	23035	1	0	Low	22.85	22.84	0.192	3	PASS
Band12	5MHz	QPSK	23095	1	0	Low	22.75	22.74	0.188	3	PASS
Band12	5MHz	QPSK	23155	1	5	High	22.67	22.66	0.185	3	PASS
Band12	5MHz	QPSK	23155	3	3	High	21.66	21.65	0.146	3	PASS
Band12	5MHz	QPSK	23035	6	0	Low	21.78	21.77	0.150	3	PASS
Band12	5MHz	QPSK	23095	6	0	Low	21.54	21.53	0.142	3	PASS
Band12	5MHz	16QAM	23035	1	0	Low	22.98	22.97	0.198	3	PASS
Band12	5MHz	16QAM	23095	1	0	Low	22.89	22.88	0.194	3	PASS
Band12	5MHz	16QAM	23155	1	5	High	22.8	22.79	0.190	3	PASS
Band12	5MHz	16QAM	23155	3	3	High	21.8	21.79	0.151	3	PASS
Band12	5MHz	16QAM	23035	6	0	Low	21.78	21.77	0.150	3	PASS
Band12	5MHz	16QAM	23095	6	0	Low	21.54	21.53	0.142	3	PASS
Band12	10MHz	QPSK	23060	1	0	Low	22.79	22.78	0.190	3	PASS
Band12	10MHz	QPSK	23095	1	0	Low	22.74	22.73	0.187	3	PASS
Band12	10MHz	QPSK	23130	1	5	High	22.65	22.64	0.184	3	PASS
Band12	10MHz	QPSK	23060	5	0	Low	21.8	21.79	0.151	3	PASS
Band12	10MHz	QPSK	23095	5	0	Low	21.65	21.64	0.146	3	PASS
Band12	10MHz	QPSK	23130	5	1	High	21.61	21.6	0.145	3	PASS
Band12	10MHz	16QAM	23060	1	0	Low	22.94	22.93	0.196	3	PASS
Band12	10MHz	16QAM	23095	1	0	Low	22.87	22.86	0.193	3	PASS
Band12	10MHz	16QAM	23130	1	5	High	22.78	22.77	0.189	3	PASS
Band12	10MHz	16QAM	23060	5	0	Low	21.9	21.89	0.155	3	PASS
Band12	10MHz	16QAM	23095	5	0	Low	21.75	21.74	0.149	3	PASS
Band12	10MHz	16QAM	23130	5	1	High	21.79	21.78	0.151	3	PASS

Appendix D.2: Peak-to-Average Ratio (CCDF) for M1

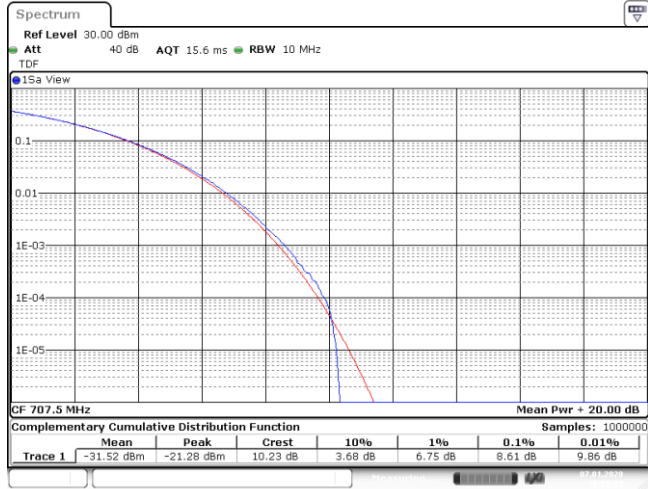
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23095	6	0	Low	6.12	<=13	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	11.42	<=13	PASS
Band12	3MHz	QPSK	23095	6	0	Low	8.61	<=13	PASS
Band12	3MHz	16QAM	23095	6	0	Low	10.99	<=13	PASS
Band12	5MHz	QPSK	23095	6	0	Low	8.29	<=13	PASS
Band12	5MHz	16QAM	23095	6	0	Low	8.58	<=13	PASS
Band12	10MHz	QPSK	23095	6	0	Low	8.35	<=13	PASS
Band12	10MHz	16QAM	23095	6	0	Low	10.26	<=13	PASS

Test Graphs



Band12_3MHz_QPSK_23095_6_0_Low_8.61_<=13_PASS_



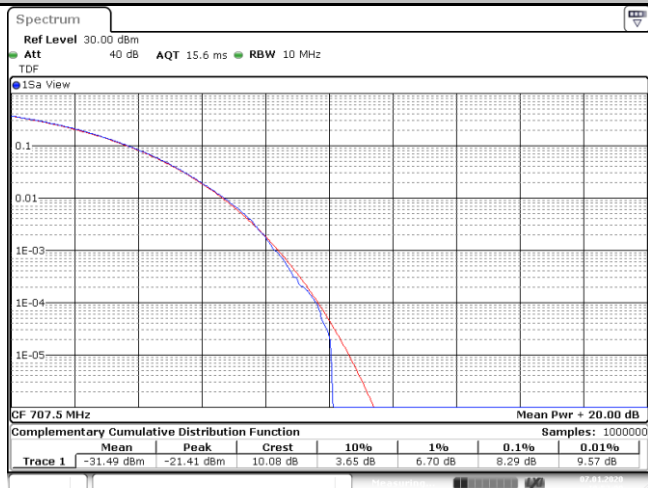
Date: 7.JAN.2020 10:51:21

Band12_3MHz_16QAM_23095_6_0_Low_10.99_<=13_PASS_



Date: 7.JAN.2020 10:51:39

Band12_5MHz_QPSK_23095_6_0_Low_8.29_<=13_PASS_



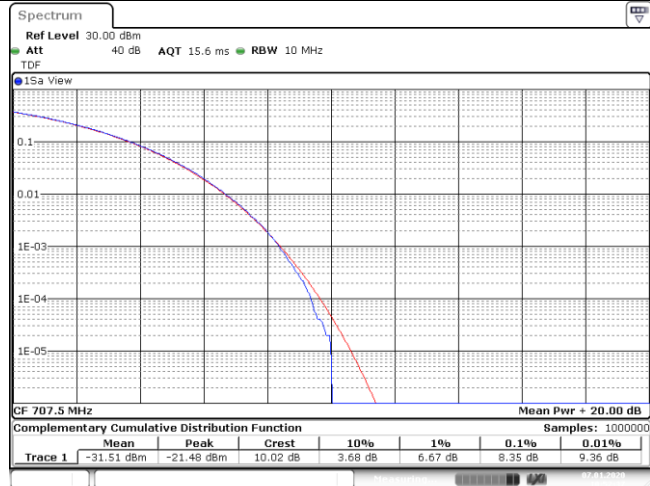
Date: 7.JAN.2020 10:51:59

Band12_5MHz_16QAM_23095_6_0_Low_8.58_<=13_PASS__



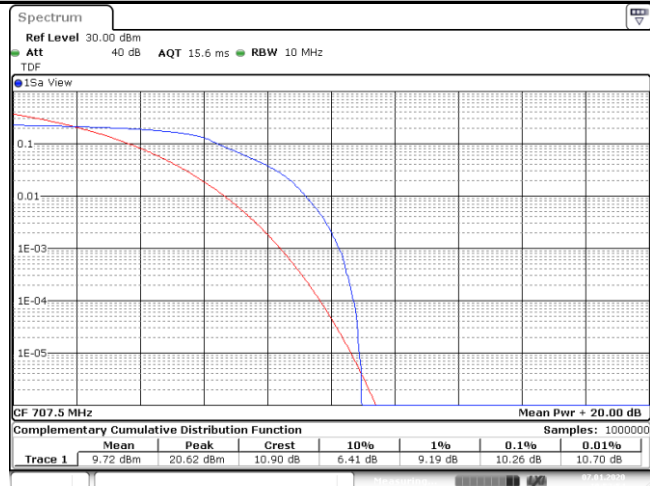
Date: 7.JAN.2020 10:52:16

Band12_10MHz_QPSK_23095_6_0_Low_8.35_<=13_PASS__



Date: 7.JAN.2020 10:52:36

Band12_10MHz_16QAM_23095_6_0_Low_10.26_<=13_PASS__



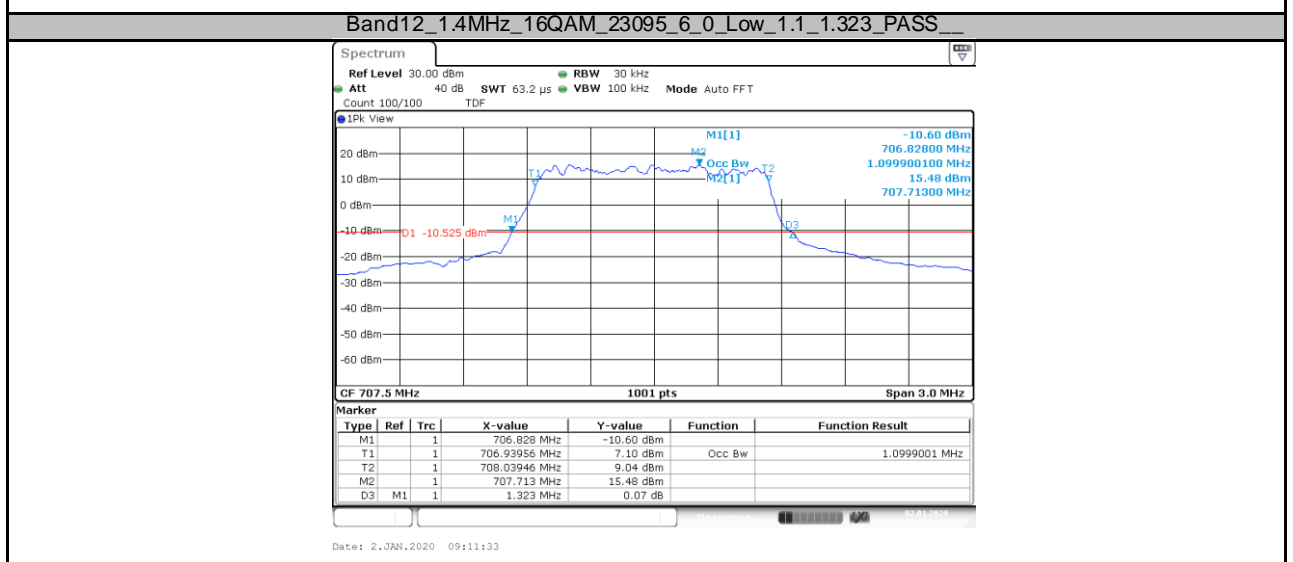
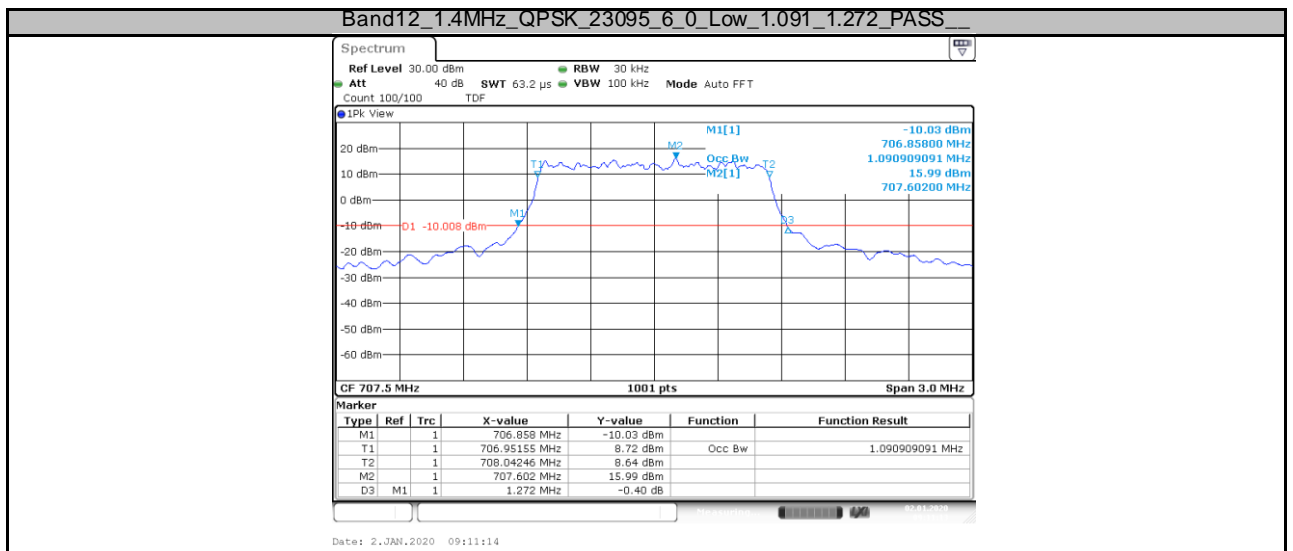
Date: 7.JAN.2020 10:52:53

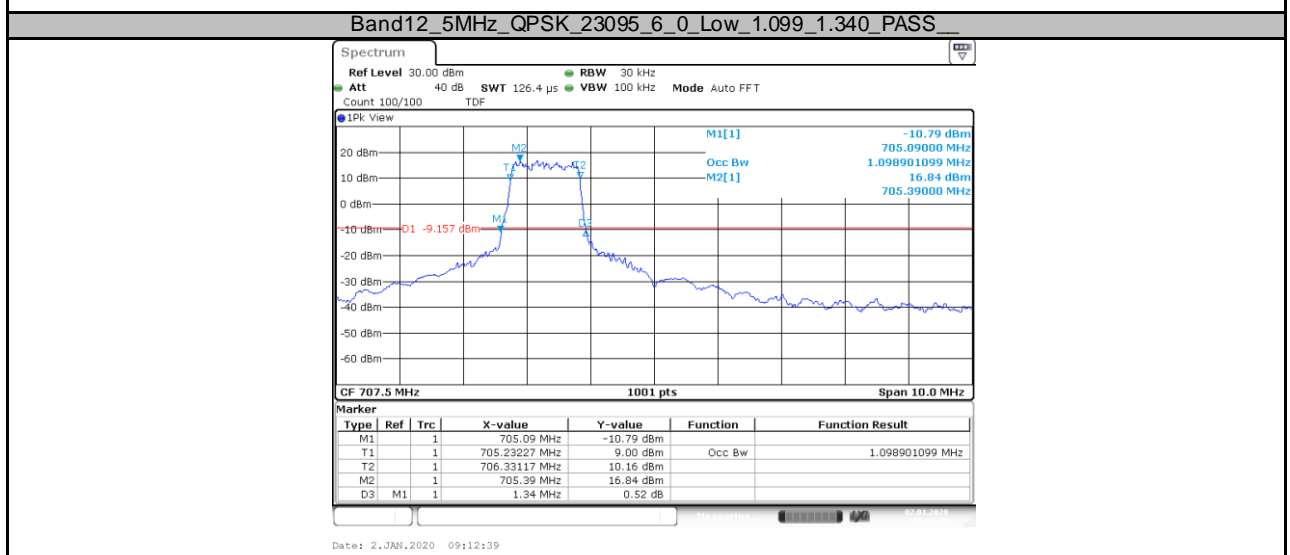
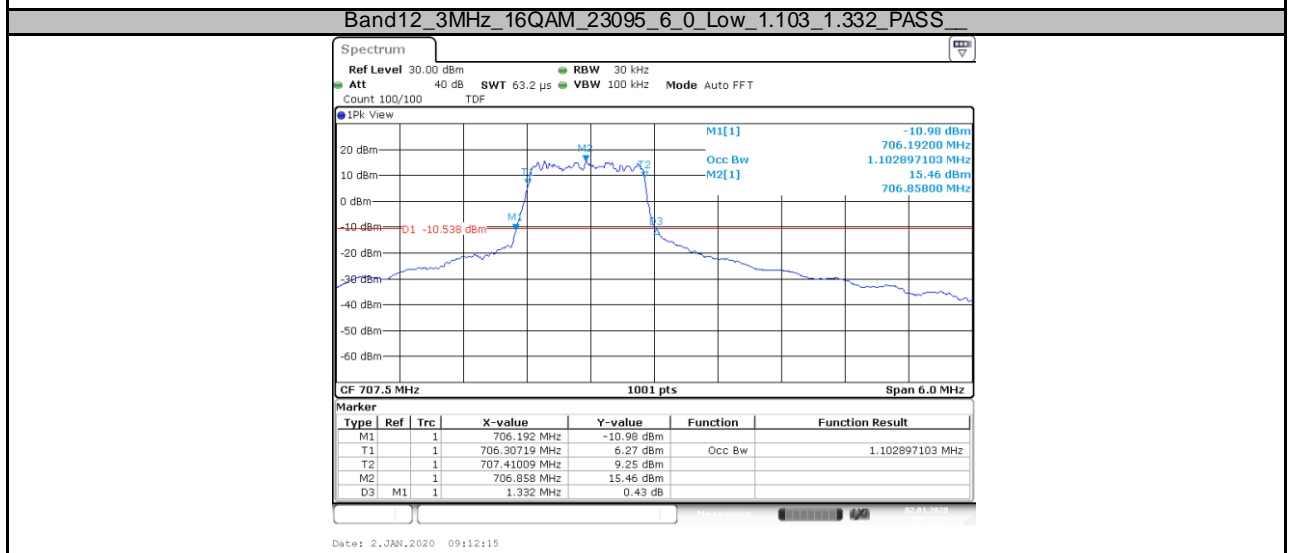
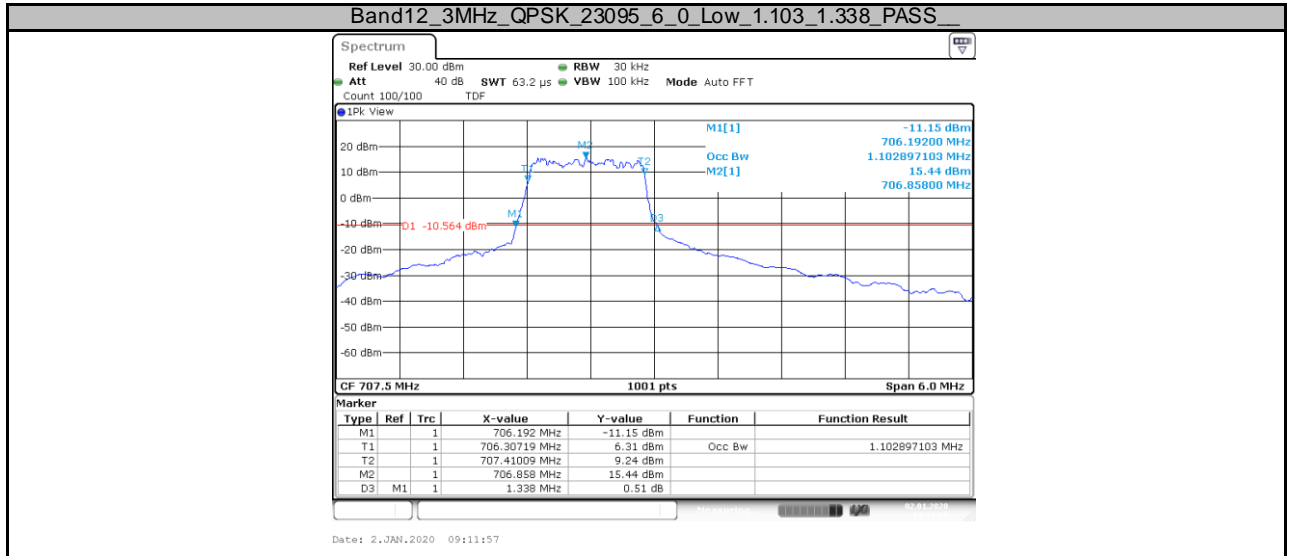
Appendix D.3: 26dB Bandwidth and Occupied Bandwidth for M1

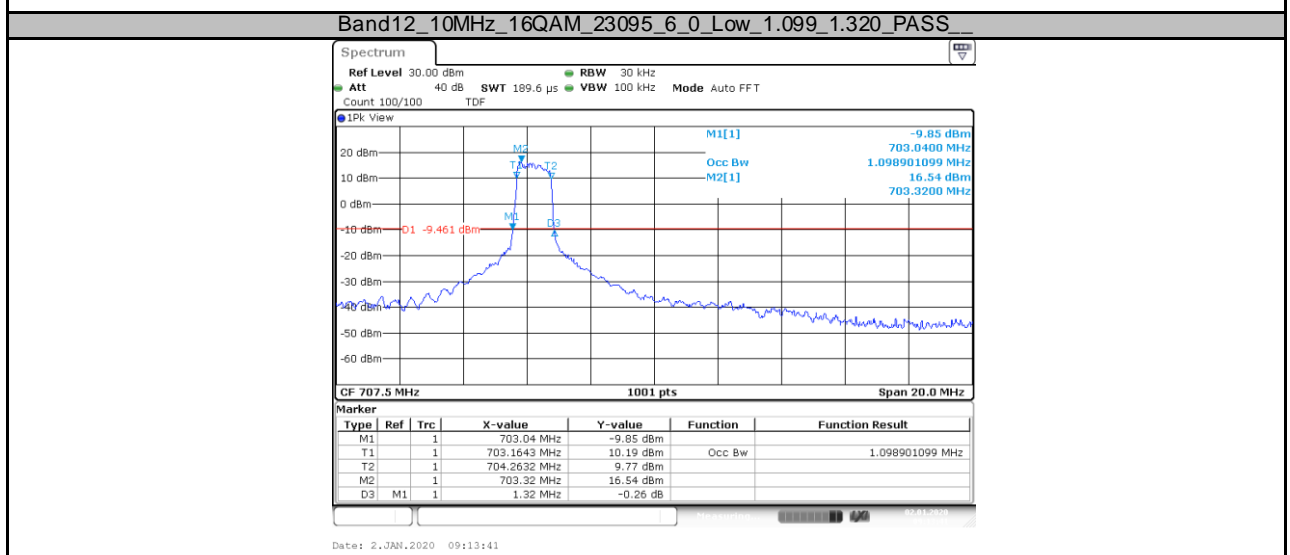
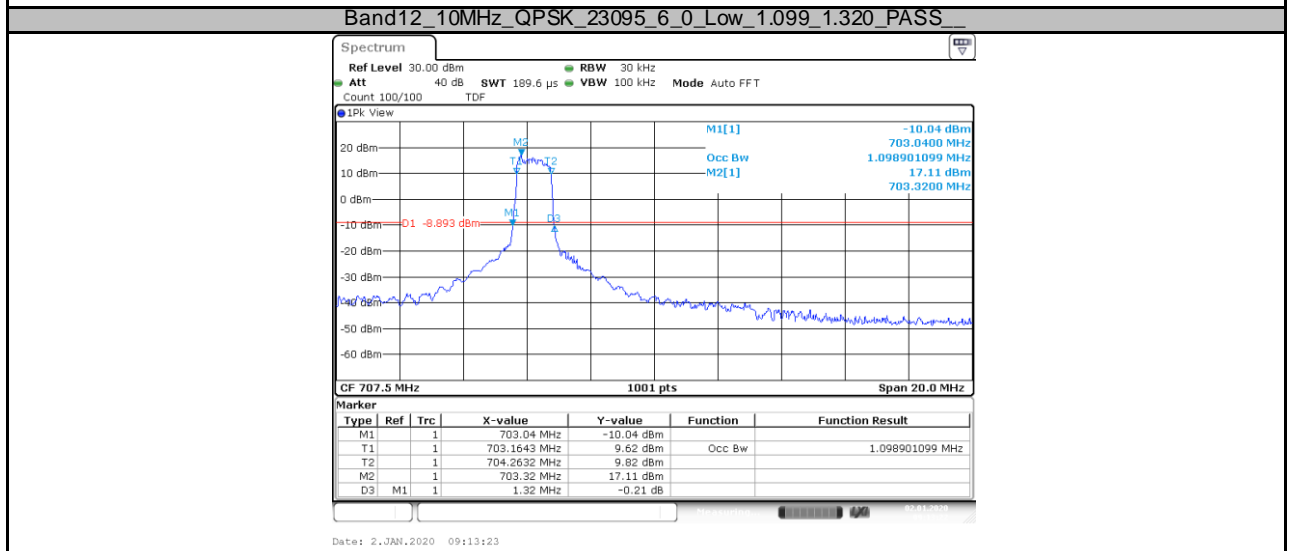
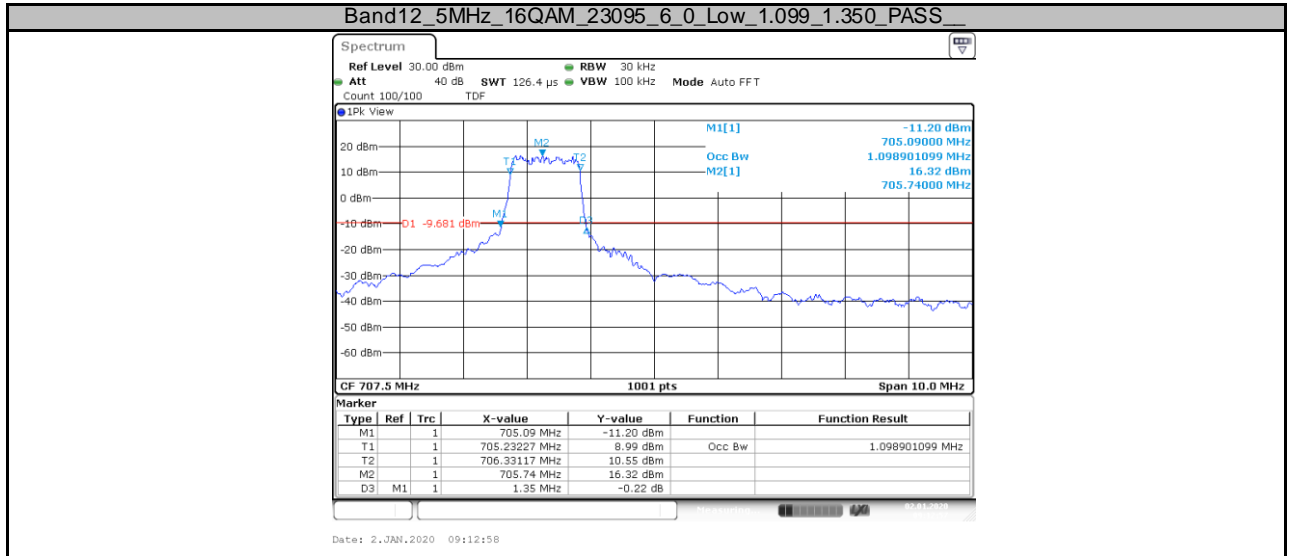
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23095	6	0	Low	1.091	1.272	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	1.1	1.323	PASS
Band12	3MHz	QPSK	23095	6	0	Low	1.103	1.338	PASS
Band12	3MHz	16QAM	23095	6	0	Low	1.103	1.332	PASS
Band12	5MHz	QPSK	23095	6	0	Low	1.099	1.340	PASS
Band12	5MHz	16QAM	23095	6	0	Low	1.099	1.350	PASS
Band12	10MHz	QPSK	23095	6	0	Low	1.099	1.320	PASS
Band12	10MHz	16QAM	23095	6	0	Low	1.099	1.320	PASS

Test Graphs





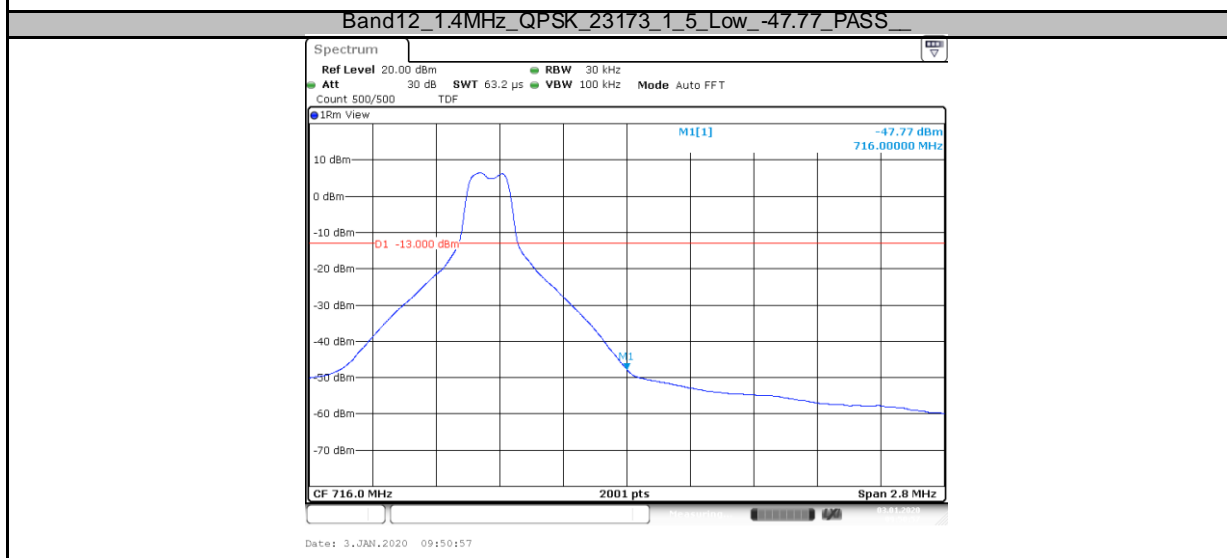
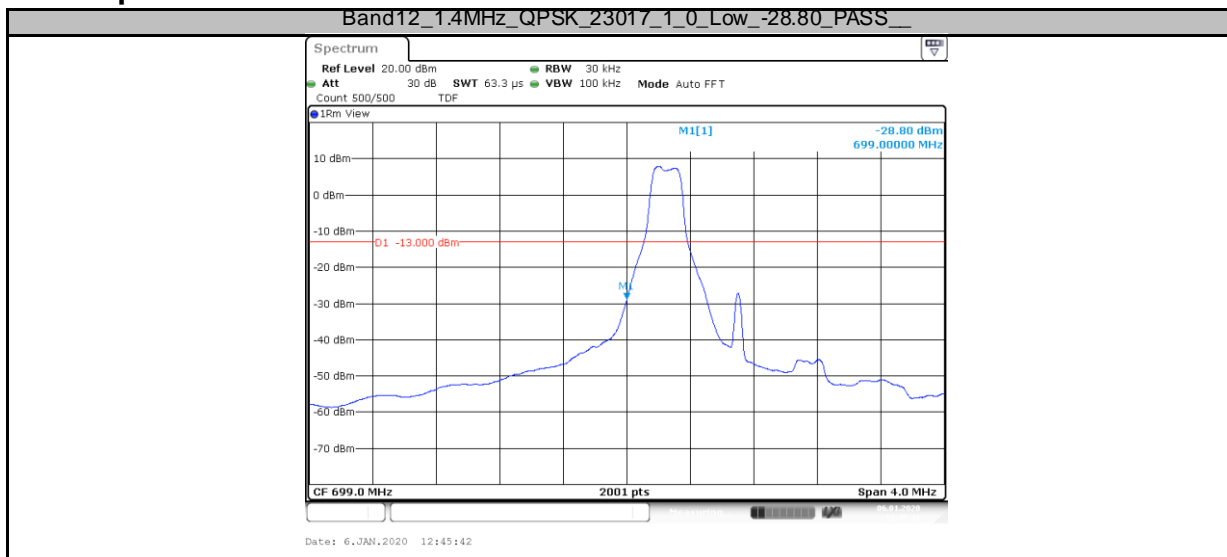


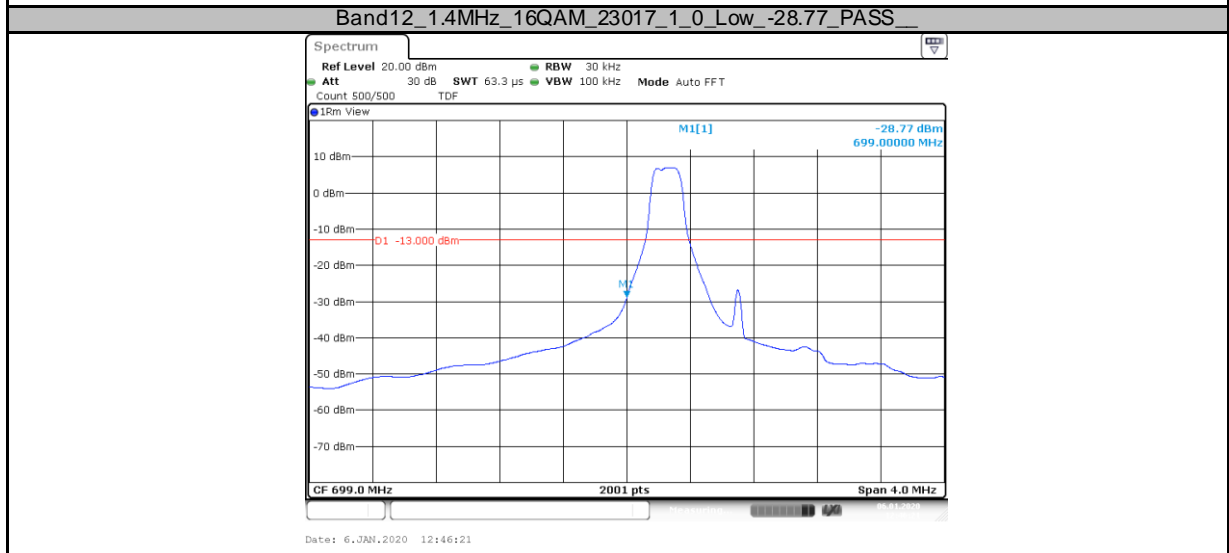
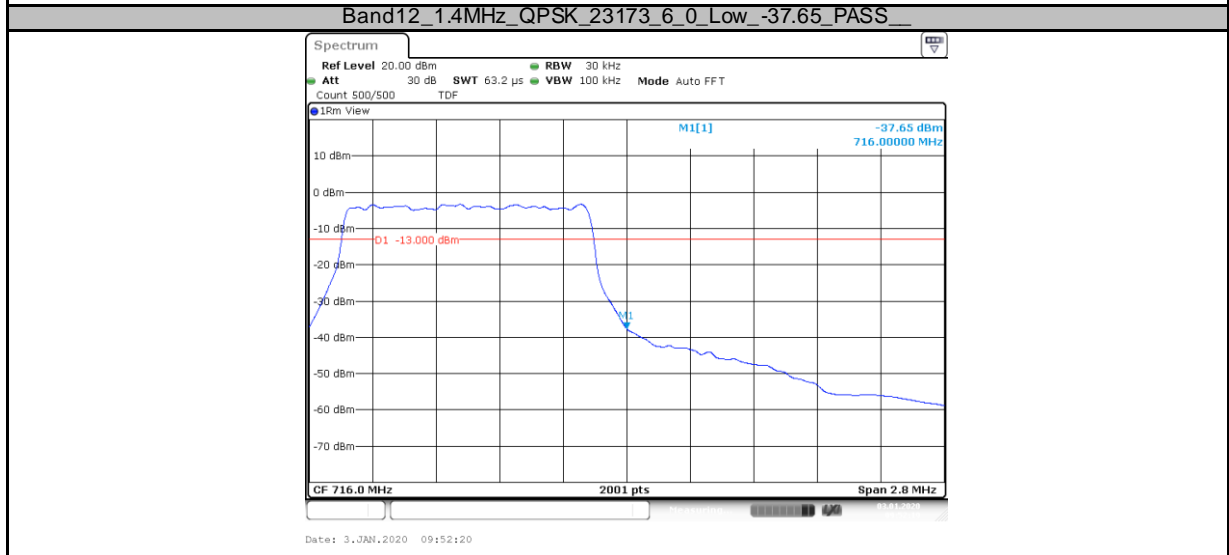
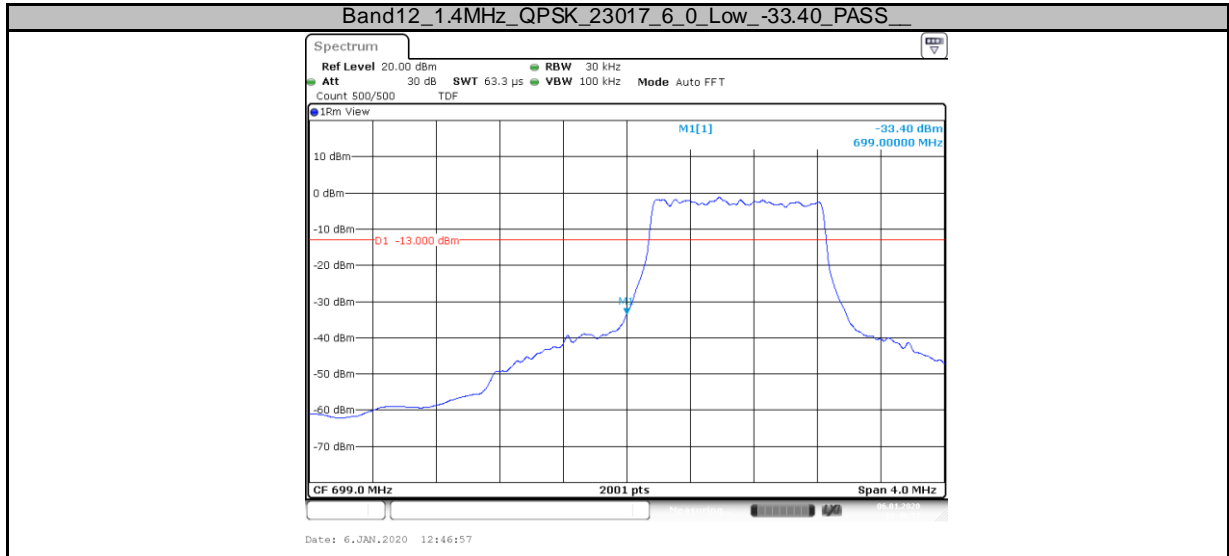
Appendix D.4: Band Edge for M1

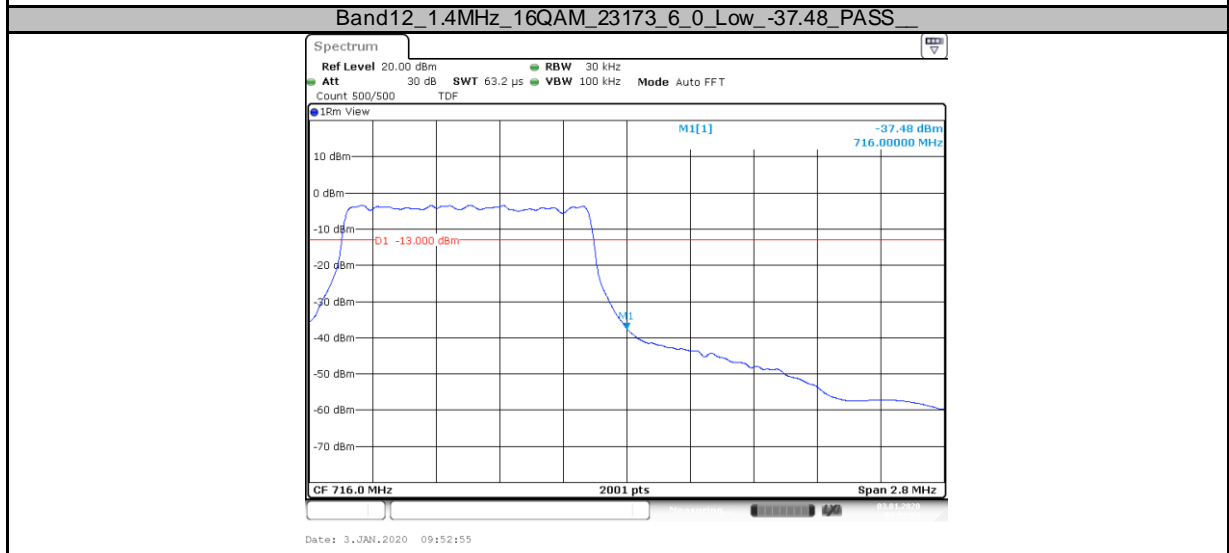
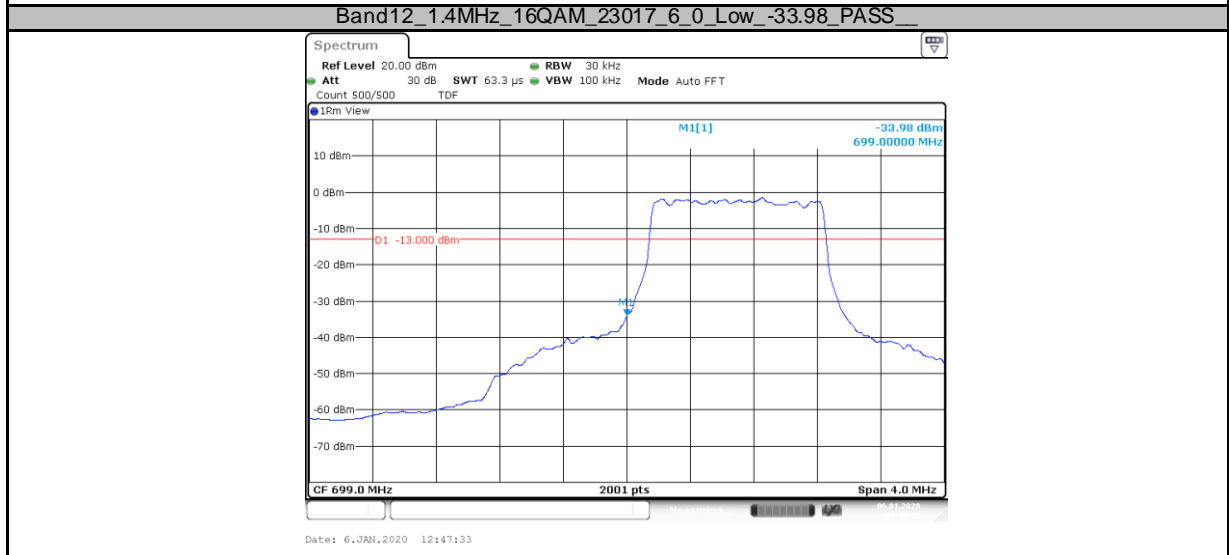
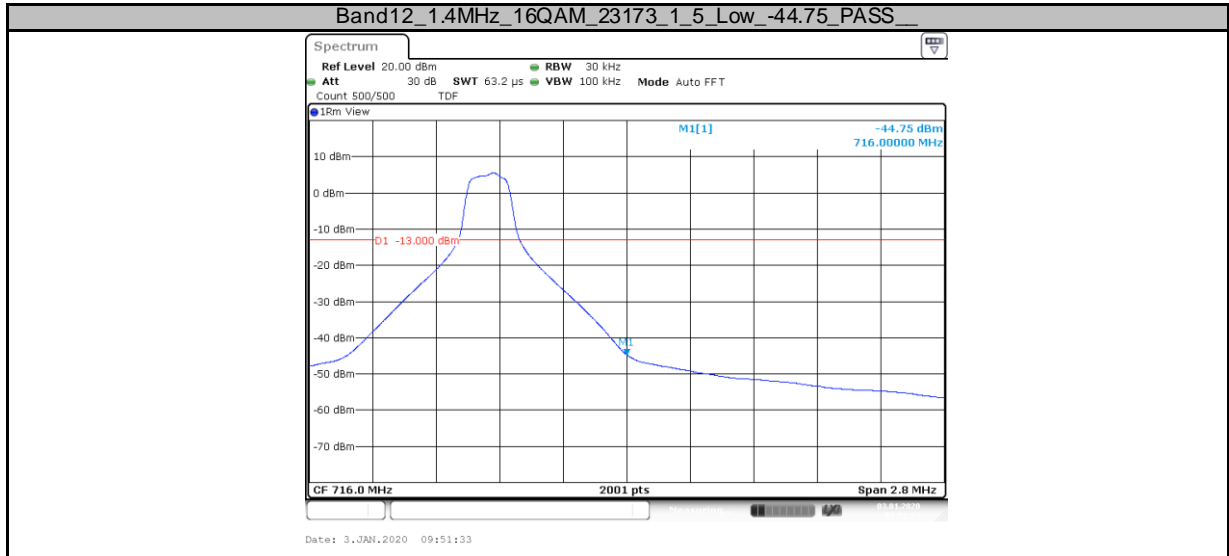
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1	0	Low	-28.80	PASS
Band12	1.4MHz	QPSK	23173	1	5	Low	-47.77	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	-33.40	PASS
Band12	1.4MHz	QPSK	23173	6	0	Low	-37.65	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	-28.77	PASS
Band12	1.4MHz	16QAM	23173	1	5	Low	-44.75	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	-33.98	PASS
Band12	1.4MHz	16QAM	23173	6	0	Low	-37.48	PASS

Test Graphs







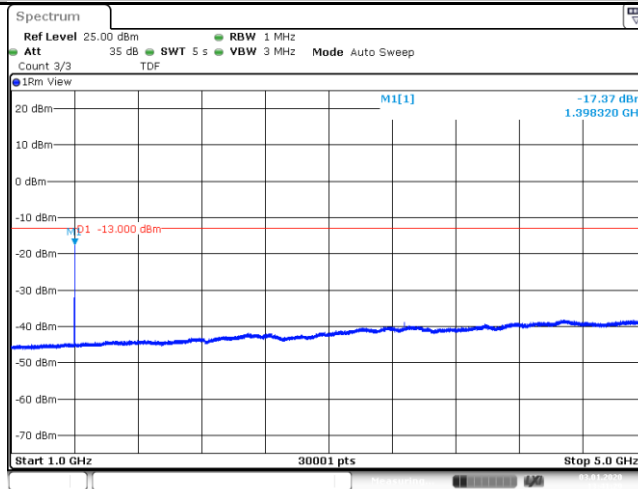
Appendix D.5: Conducted Spurious Emission for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1	0	Low	1000	5000	-17.37	PASS
Band12	1.4MHz	QPSK	23017	1	0	Low	5000	12000	-47.86	PASS
Band12	1.4MHz	QPSK	23017	1	0	Low	12000	26500	-41.73	PASS
Band12	1.4MHz	QPSK	23017	1	0	Low	30	1000	-35.65	PASS
Band12	1.4MHz	QPSK	23095	1	0	Low	5000	12000	-47.78	PASS
Band12	1.4MHz	QPSK	23095	1	0	Low	1000	5000	-38.06	PASS
Band12	1.4MHz	QPSK	23095	1	0	Low	30	1000	-35.78	PASS
Band12	1.4MHz	QPSK	23095	1	0	Low	12000	26500	-41.68	PASS
Band12	1.4MHz	QPSK	23173	1	5	Low	5000	12000	-47.78	PASS
Band12	1.4MHz	QPSK	23173	1	5	Low	1000	5000	-26.6	PASS
Band12	1.4MHz	QPSK	23173	1	5	Low	12000	26500	-41.65	PASS
Band12	1.4MHz	QPSK	23173	1	5	Low	30	1000	-35.46	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	5000	12000	-47.73	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	12000	26500	-41.67	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	1000	5000	-25.41	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	30	1000	-35.96	PASS
Band12	1.4MHz	QPSK	23095	6	0	Low	30	1000	-35.9	PASS
Band12	1.4MHz	QPSK	23095	6	0	Low	5000	12000	-47.76	PASS
Band12	1.4MHz	QPSK	23095	6	0	Low	1000	5000	-30.69	PASS
Band12	1.4MHz	QPSK	23095	6	0	Low	12000	26500	-41.63	PASS
Band12	1.4MHz	QPSK	23173	6	0	Low	30	1000	-35.4	PASS
Band12	1.4MHz	QPSK	23173	6	0	Low	1000	5000	-32.7	PASS
Band12	1.4MHz	QPSK	23173	6	0	Low	5000	12000	-47.62	PASS
Band12	1.4MHz	QPSK	23173	6	0	Low	12000	26500	-41.63	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	30	1000	-35.64	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	1000	5000	-18.03	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	12000	26500	-41.65	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	5000	12000	-47.68	PASS
Band12	1.4MHz	16QAM	23095	1	0	Low	1000	5000	-22.8	PASS
Band12	1.4MHz	16QAM	23095	1	0	Low	12000	26500	-41.52	PASS
Band12	1.4MHz	16QAM	23095	1	0	Low	30	1000	-36.01	PASS
Band12	1.4MHz	16QAM	23095	1	0	Low	5000	12000	-47.62	PASS
Band12	1.4MHz	16QAM	23173	1	5	Low	12000	26500	-41.3	PASS
Band12	1.4MHz	16QAM	23173	1	5	Low	5000	12000	-47.8	PASS
Band12	1.4MHz	16QAM	23173	1	5	Low	1000	5000	-27.07	PASS
Band12	1.4MHz	16QAM	23173	1	5	Low	30	1000	-36.18	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	12000	26500	-41.54	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	5000	12000	-47.7	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	1000	5000	-25.05	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	30	1000	-36.22	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	1000	5000	-29.14	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	5000	12000	-47.52	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	30	1000	-35.37	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	12000	26500	-41.73	PASS
Band12	1.4MHz	16QAM	23173	6	0	Low	12000	26500	-41.7	PASS
Band12	1.4MHz	16QAM	23173	6	0	Low	30	1000	-35.08	PASS
Band12	1.4MHz	16QAM	23173	6	0	Low	1000	5000	-32.77	PASS
Band12	1.4MHz	16QAM	23173	6	0	Low	5000	12000	-47.59	PASS

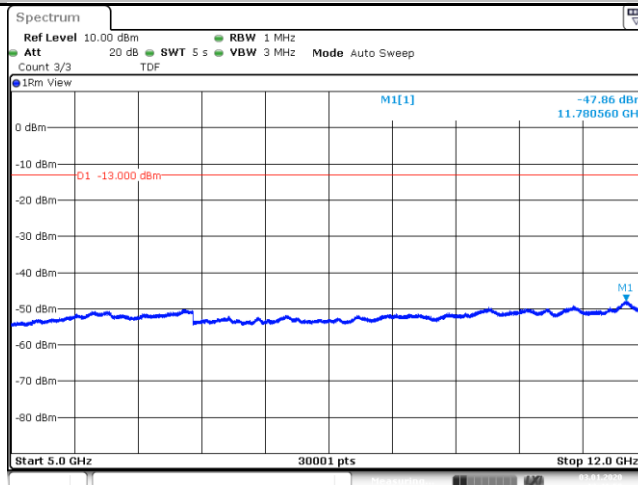
Test Graphs

Band12_1.4MHz_QPSK_23017_1_0_Low_1000_5000_-17.37_PASS__



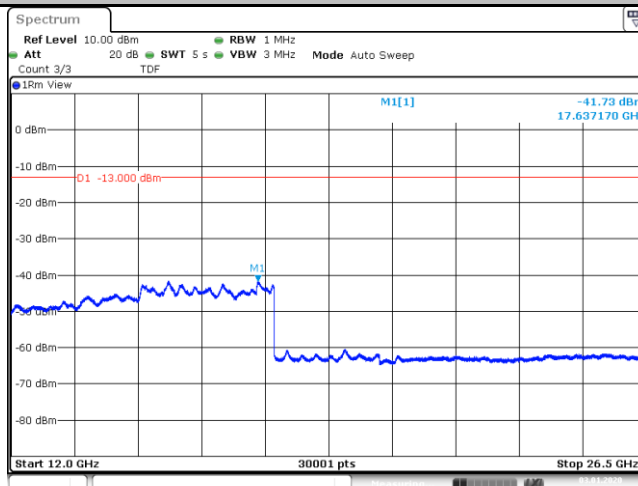
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Band12_1.4MHz_QPSK_23017_1_0_Low_5000_12000_-47.86_PASS__



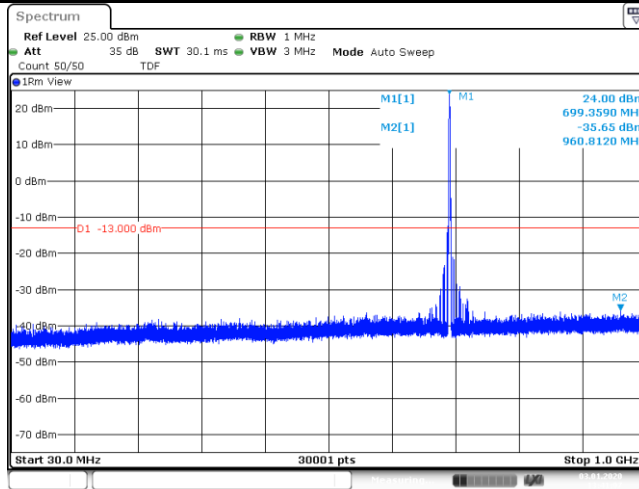
Date: 3.JAN.2020 13:41:50

Band12_1.4MHz_QPSK_23017_1_0_Low_12000_26500_-41.73_PASS__

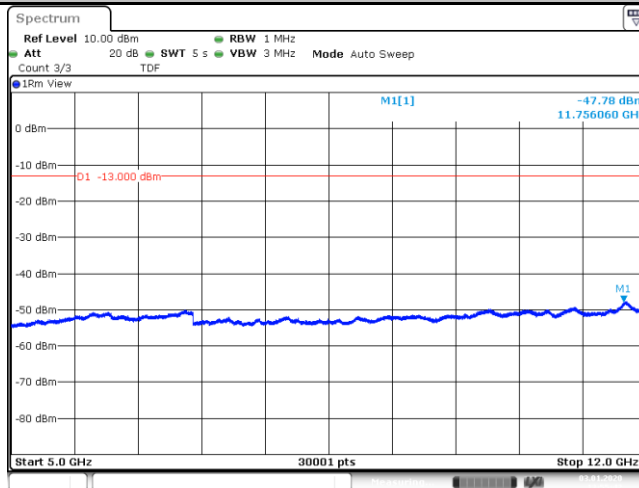


Date: 3.JAN.2020 13:42:12

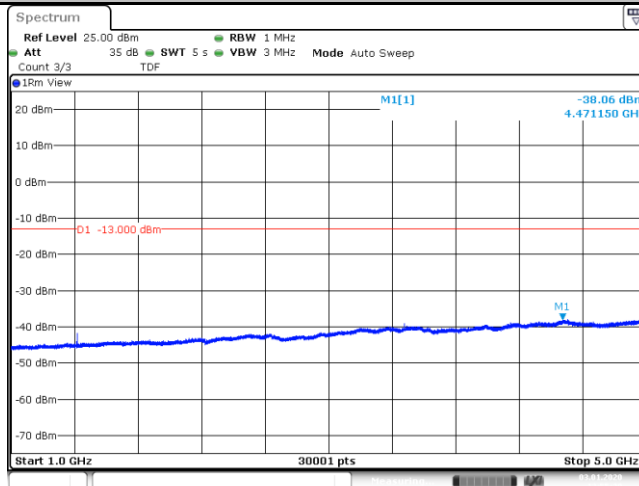
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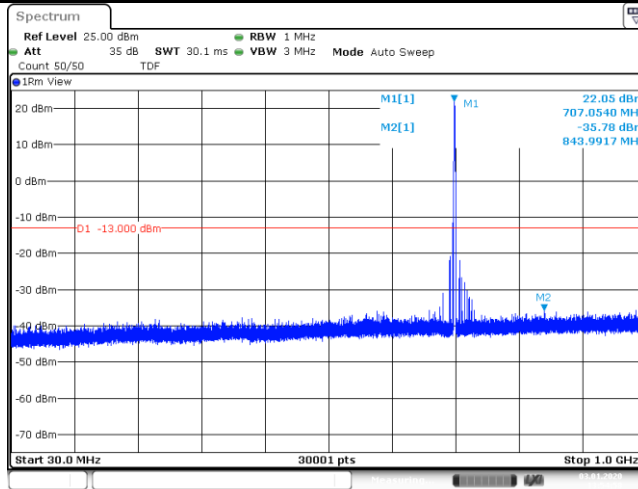
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Band12_1.4MHz_QPSK_23095_1_0_Low_1000_5000_-38.06_PASS_

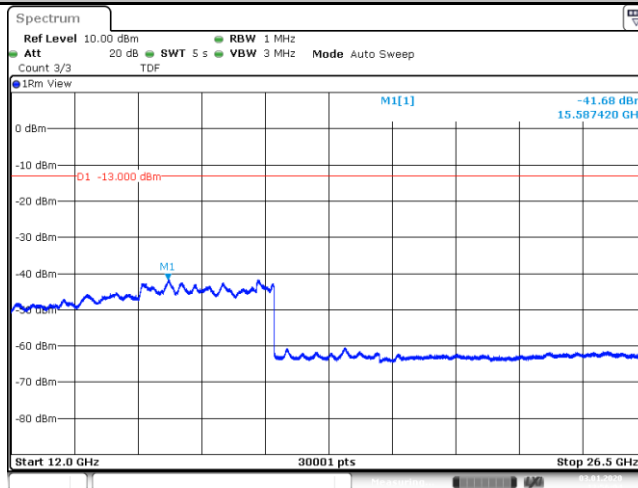


Band12_1.4MHz_QPSK_23095_1_0_Low_30_1000_-35.78_PASS__



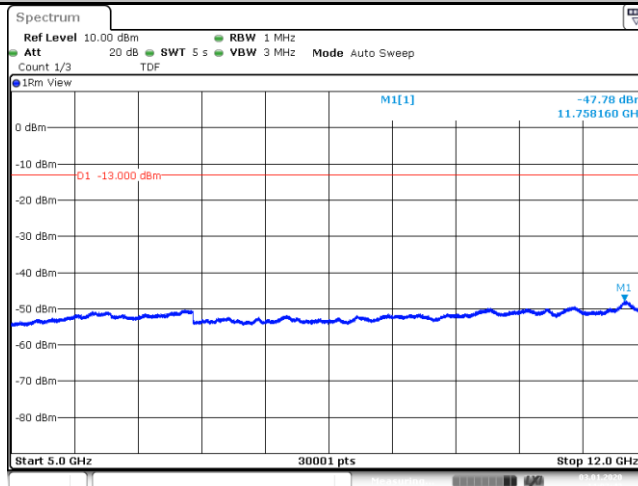
Date: 3, JAN, 2020 13:54:58

Band12_1.4MHz_QPSK_23095_1_0_Low_12000_26500_-41.68_PASS__



Date: 3, JAN, 2020 13:56:04

Band12_1.4MHz_QPSK_23173_1_5_Low_5000_12000_-47.78_PASS__



Date: 3, JAN, 2020 14:02:42