

Appendix B: Test Results of Band 4 for eMTC operation

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Appendix B.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)	EIRP		Limit (watts)	Verdict
								dBm	Watts		
Band4	1.4MHz	QPSK	19957	1	0	Low	23.29	25.43	0.349	1	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	22.93	25.07	0.321	1	PASS
Band4	1.4MHz	QPSK	20393	1	5	Low	23.16	25.30	0.339	1	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	21.17	23.31	0.214	1	PASS
Band4	1.4MHz	QPSK	20175	6	0	Low	20.89	23.03	0.201	1	PASS
Band4	1.4MHz	QPSK	20393	6	0	Low	21.06	23.20	0.209	1	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	22.36	24.50	0.282	1	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	22.4	24.54	0.284	1	PASS
Band4	1.4MHz	16QAM	20393	1	5	Low	22.26	24.40	0.275	1	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	21.14	23.28	0.213	1	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	20.9	23.04	0.201	1	PASS
Band4	1.4MHz	16QAM	20393	6	0	Low	21.09	23.23	0.210	1	PASS
Band4	3MHz	QPSK	19965	1	0	Low	23.28	25.42	0.348	1	PASS
Band4	3MHz	QPSK	20175	1	0	Low	23.04	25.18	0.330	1	PASS
Band4	3MHz	QPSK	20385	1	5	High	23.18	25.32	0.340	1	PASS
Band4	3MHz	QPSK	19965	6	0	Low	21.21	23.35	0.216	1	PASS
Band4	3MHz	QPSK	20175	6	0	Low	20.88	23.02	0.200	1	PASS
Band4	3MHz	QPSK	20385	6	0	High	21.05	23.19	0.208	1	PASS
Band4	3MHz	16QAM	19965	1	0	Low	22.43	24.57	0.286	1	PASS
Band4	3MHz	16QAM	20175	1	0	Low	22.06	24.20	0.263	1	PASS
Band4	3MHz	16QAM	20385	1	5	High	22.26	24.40	0.275	1	PASS
Band4	3MHz	16QAM	19965	6	0	Low	21.24	23.38	0.218	1	PASS
Band4	3MHz	16QAM	20175	6	0	Low	20.85	22.99	0.199	1	PASS
Band4	3MHz	16QAM	20385	6	0	High	21.08	23.22	0.210	1	PASS
Band4	5MHz	QPSK	19975	1	0	Low	23.29	25.43	0.349	1	PASS
Band4	5MHz	QPSK	20175	1	0	Low	22.99	25.13	0.326	1	PASS
Band4	5MHz	QPSK	20375	1	5	High	23.11	25.25	0.335	1	PASS
Band4	5MHz	QPSK	20375	3	3	High	22.17	24.31	0.270	1	PASS
Band4	5MHz	QPSK	19975	6	0	Low	22.2	24.34	0.272	1	PASS
Band4	5MHz	QPSK	20175	6	0	Low	21.79	23.93	0.247	1	PASS
Band4	5MHz	16QAM	19975	1	0	Low	23.39	25.53	0.357	1	PASS
Band4	5MHz	16QAM	20175	1	0	Low	22.97	25.11	0.324	1	PASS
Band4	5MHz	16QAM	20375	1	5	High	23.23	25.37	0.344	1	PASS
Band4	5MHz	16QAM	20375	3	3	High	22.25	24.39	0.275	1	PASS
Band4	5MHz	16QAM	19975	6	0	Low	22.19	24.33	0.271	1	PASS
Band4	5MHz	16QAM	20175	6	0	Low	21.86	24.00	0.251	1	PASS
Band4	10MHz	QPSK	20000	1	0	Low	23.33	25.47	0.352	1	PASS
Band4	10MHz	QPSK	20175	1	0	Low	23	25.14	0.327	1	PASS
Band4	10MHz	QPSK	20350	1	5	High	23.12	25.26	0.336	1	PASS
Band4	10MHz	QPSK	20000	5	0	Low	22.22	24.36	0.273	1	PASS
Band4	10MHz	QPSK	20175	5	0	Low	21.89	24.03	0.253	1	PASS
Band4	10MHz	QPSK	20350	5	1	High	22.12	24.26	0.267	1	PASS
Band4	10MHz	16QAM	20000	1	0	Low	23.45	25.59	0.362	1	PASS
Band4	10MHz	16QAM	20175	1	0	Low	23.12	25.26	0.336	1	PASS
Band4	10MHz	16QAM	20350	1	5	High	23.21	25.35	0.343	1	PASS
Band4	10MHz	16QAM	20000	5	0	Low	22.31	24.45	0.279	1	PASS
Band4	10MHz	16QAM	20175	5	0	Low	21.99	24.13	0.259	1	PASS
Band4	10MHz	16QAM	20350	5	1	High	22.15	24.29	0.269	1	PASS
Band4	15MHz	QPSK	20025	1	0	Low	23.23	25.37	0.344	1	PASS
Band4	15MHz	QPSK	20175	1	0	Low	23.08	25.22	0.333	1	PASS
Band4	15MHz	QPSK	20325	1	5	High	23.11	25.25	0.335	1	PASS

Produkte
Products

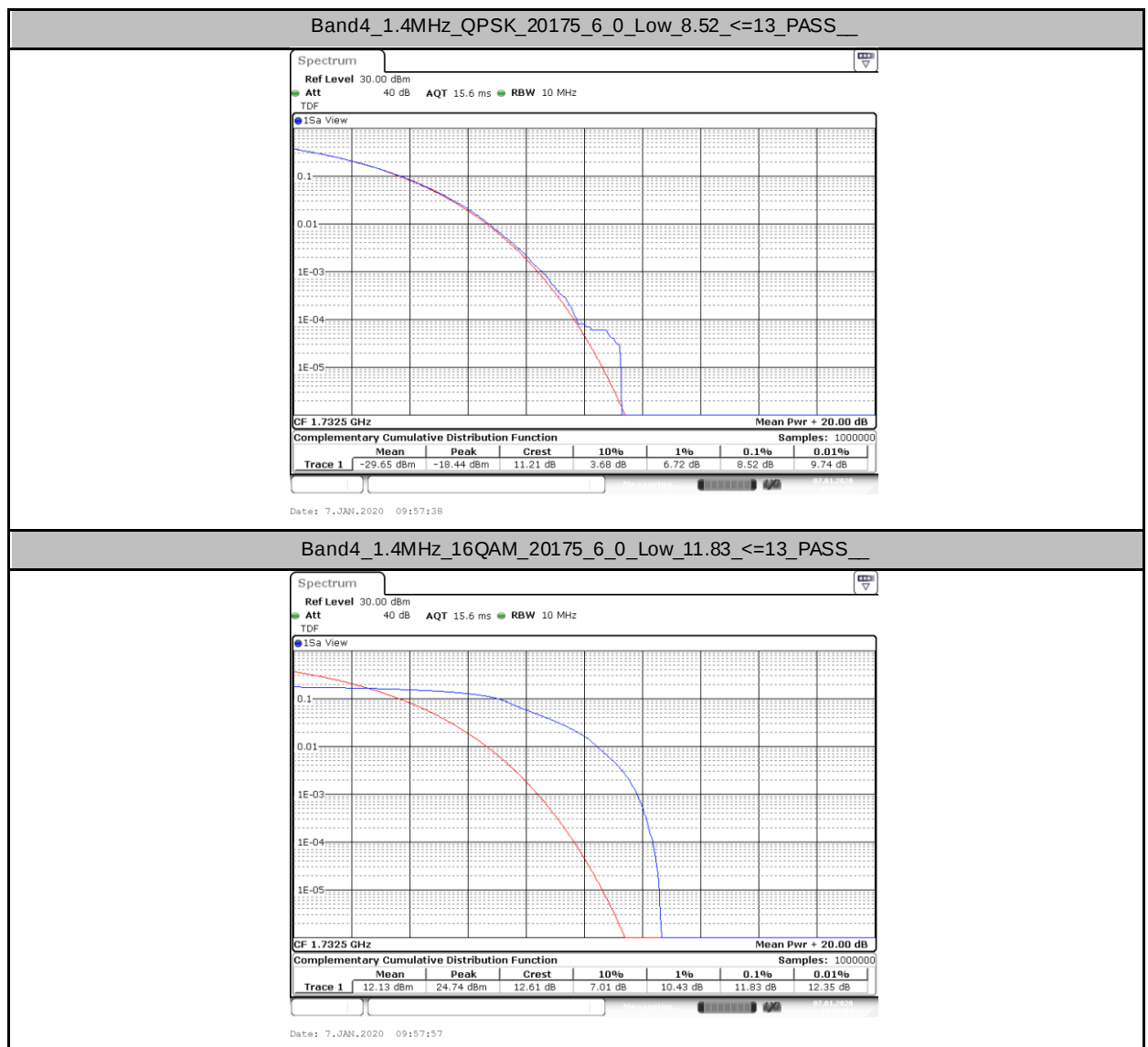
Band4	15MHz	QPSK	20025	6	0	Low	23.12	25.26	0.336	1	PASS
Band4	15MHz	QPSK	20175	6	0	Low	22.87	25.01	0.317	1	PASS
Band4	15MHz	QPSK	20325	6	0	High	23	25.14	0.327	1	PASS
Band4	15MHz	16QAM	20025	1	0	Low	23.46	25.60	0.363	1	PASS
Band4	15MHz	16QAM	20175	1	0	Low	23.21	25.35	0.343	1	PASS
Band4	15MHz	16QAM	20325	1	5	High	23.37	25.51	0.356	1	PASS
Band4	15MHz	16QAM	20025	6	0	Low	23.12	25.26	0.336	1	PASS
Band4	15MHz	16QAM	20175	6	0	Low	22.87	25.01	0.317	1	PASS
Band4	15MHz	16QAM	20325	6	0	High	23.01	25.15	0.327	1	PASS
Band4	20MHz	QPSK	20050	1	0	Low	23.3	25.44	0.350	1	PASS
Band4	20MHz	QPSK	20175	1	0	Low	23.09	25.23	0.333	1	PASS
Band4	20MHz	QPSK	20300	1	5	High	23.17	25.31	0.340	1	PASS
Band4	20MHz	QPSK	20050	6	0	Low	23.15	25.29	0.338	1	PASS
Band4	20MHz	QPSK	20175	6	0	Low	22.94	25.08	0.322	1	PASS
Band4	20MHz	QPSK	20300	6	0	High	23.04	25.18	0.330	1	PASS
Band4	20MHz	16QAM	20050	1	0	Low	23.44	25.58	0.361	1	PASS
Band4	20MHz	16QAM	20175	1	0	Low	23.23	25.37	0.344	1	PASS
Band4	20MHz	16QAM	20300	1	5	High	23.41	25.55	0.359	1	PASS
Band4	20MHz	16QAM	20050	6	0	Low	23.12	25.26	0.336	1	PASS
Band4	20MHz	16QAM	20175	6	0	Low	22.93	25.07	0.321	1	PASS
Band4	20MHz	16QAM	20300	6	0	High	23.04	25.18	0.330	1	PASS

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

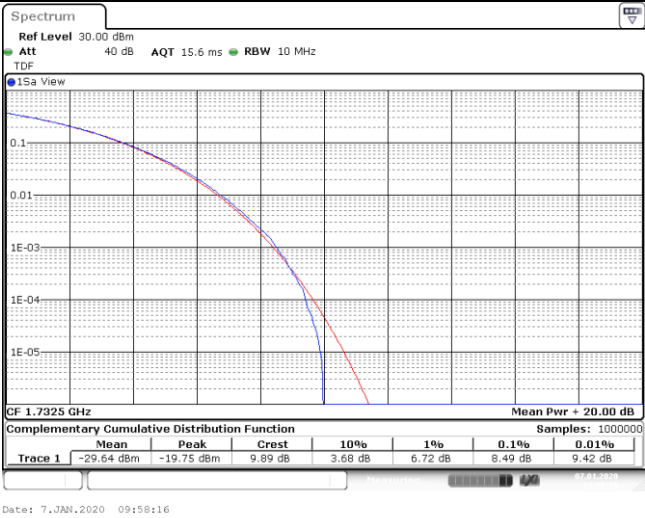
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit (dB)	Verdict
Band4	1.4MHz	QPSK	20175	6	0	Low	8.52	<=13	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	11.83	<=13	PASS
Band4	3MHz	QPSK	20175	6	0	Low	8.49	<=13	PASS
Band4	3MHz	16QAM	20175	6	0	Low	11.80	<=13	PASS
Band4	5MHz	QPSK	20175	6	0	Low	8.32	<=13	PASS
Band4	5MHz	16QAM	20175	6	0	Low	9.13	<=13	PASS
Band4	10MHz	QPSK	20175	6	0	Low	8.43	<=13	PASS
Band4	10MHz	16QAM	20175	6	0	Low	11.68	<=13	PASS
Band4	15MHz	QPSK	20175	6	0	Low	5.74	<=13	PASS
Band4	15MHz	16QAM	20175	6	0	Low	8.93	<=13	PASS
Band4	20MHz	QPSK	20175	6	0	Low	8.58	<=13	PASS
Band4	20MHz	16QAM	20175	6	0	Low	10.41	<=13	PASS

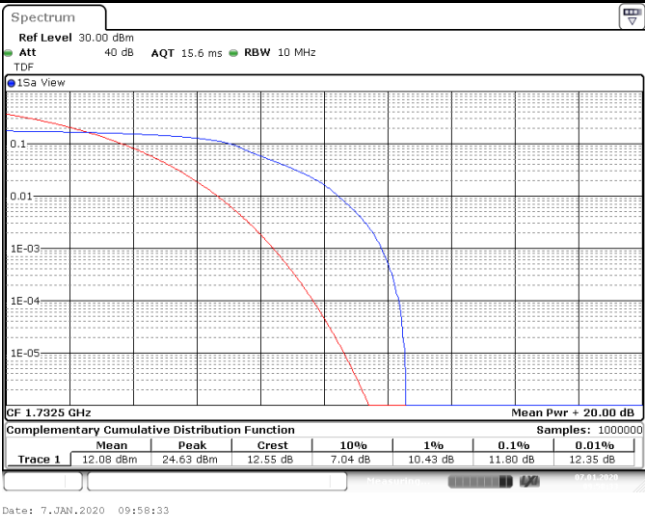
Test Graphs



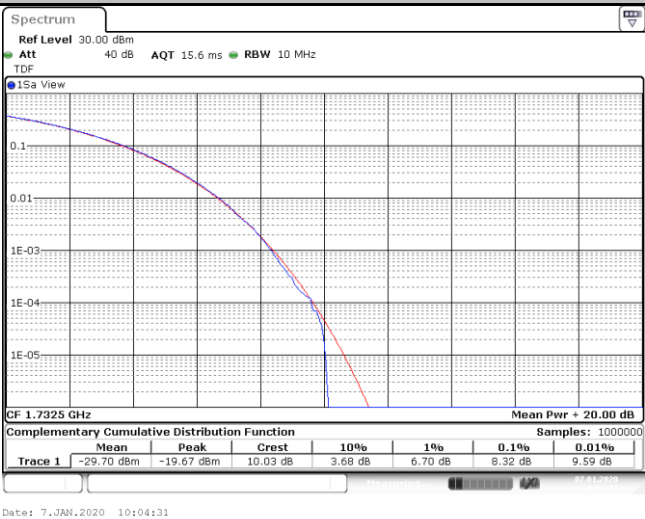
Band4_3MHz_QPSK_20175_6_0_Low_8.49_<=13_PASS_



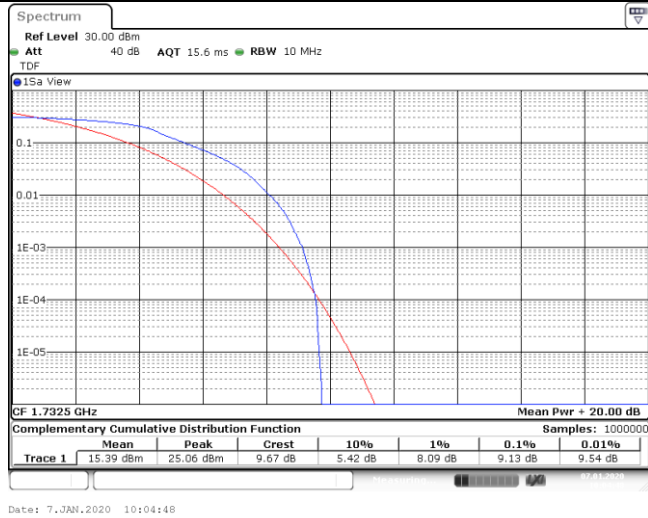
Band4_3MHz_16QAM_20175_6_0_Low_11.80_<=13_PASS_



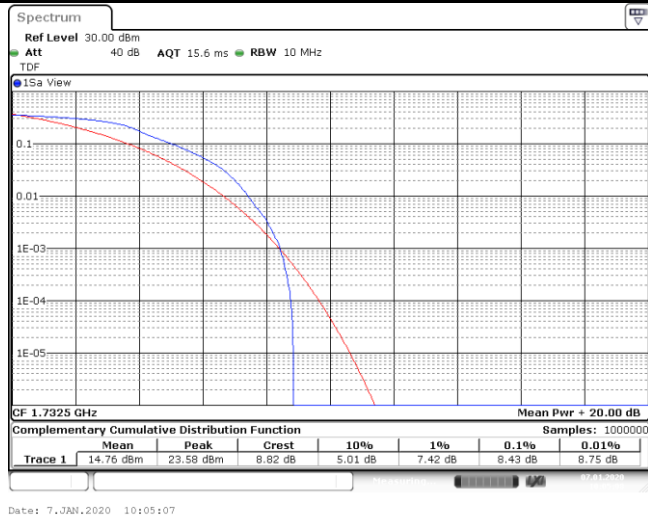
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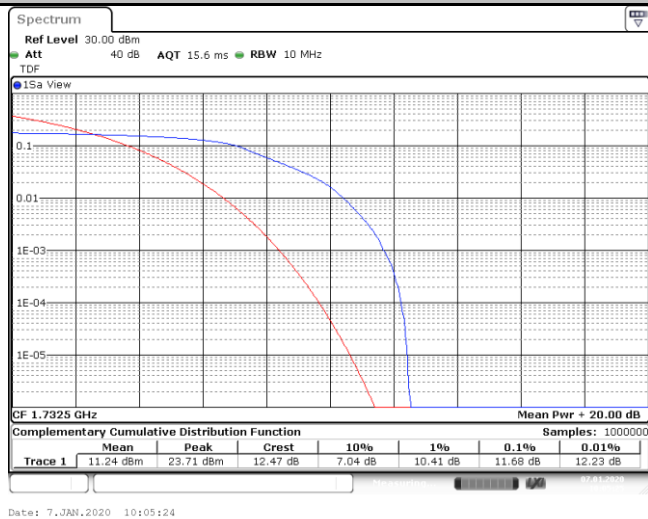
Band4_5MHz_16QAM_20175_6_0_Low_9.13_<=13_PASS__



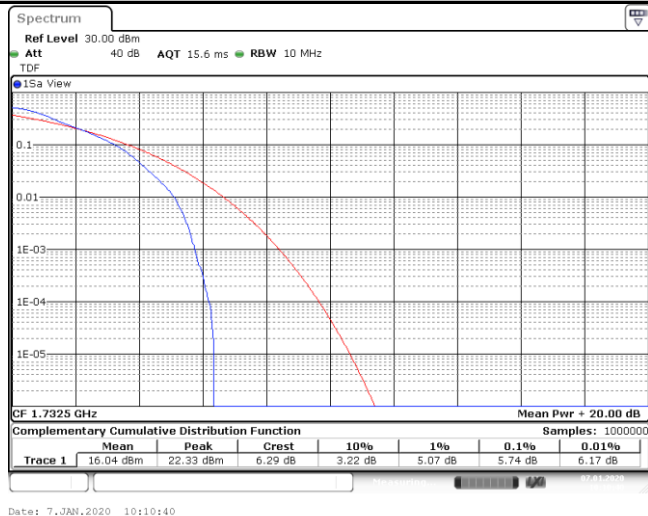
Band4_10MHz_QPSK_20175_6_0_Low_8.43_<=13_PASS__



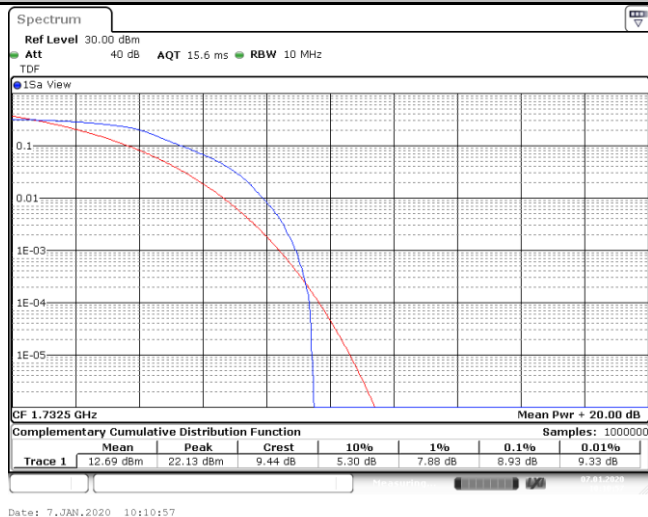
Band4_10MHz_16QAM_20175_6_0_Low_11.68_<=13_PASS__



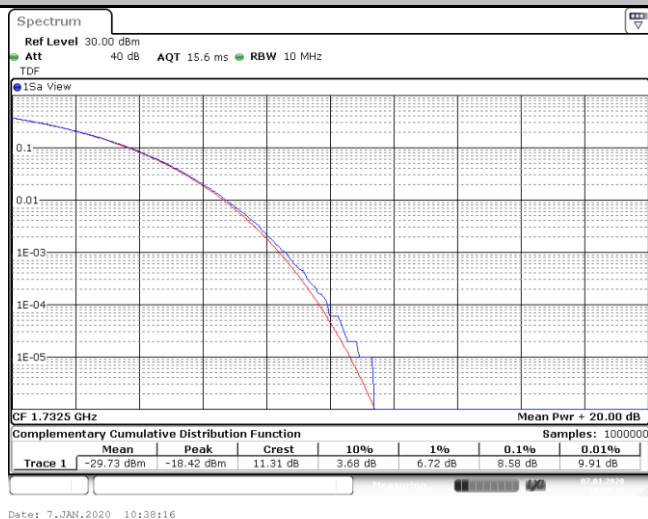
Band4_15MHz_QPSK_20175_6_0_Low_5.74_<=13_PASS__



Band4_15MHz_16QAM_20175_6_0_Low_8.93_<=13_PASS__



Band4_20MHz_QPSK_20175_6_0_Low_8.58_<=13_PASS__

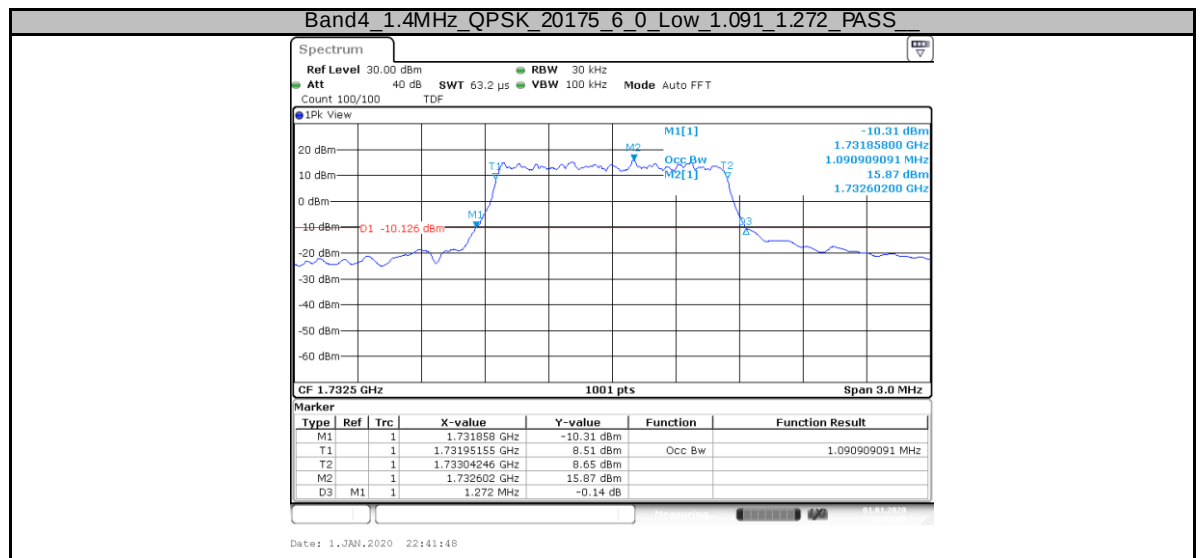


Appendix B.3: 26dB Bandwidth and Occupied Bandwidth for M1

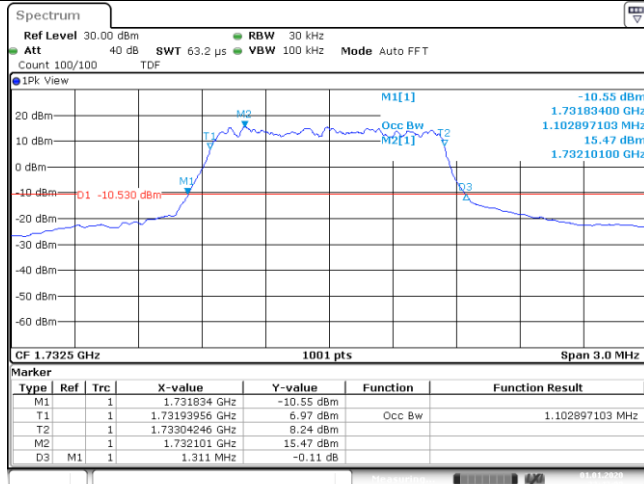
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	20175	6	0	Low	1.091	1.272	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	1.103	1.311	PASS
Band4	3MHz	QPSK	20175	6	0	Low	1.097	1.326	PASS
Band4	3MHz	16QAM	20175	6	0	Low	1.097	1.320	PASS
Band4	5MHz	QPSK	20175	6	0	Low	1.099	1.330	PASS
Band4	5MHz	16QAM	20175	6	0	Low	1.099	1.330	PASS
Band4	10MHz	QPSK	20175	6	0	Low	1.099	1.380	PASS
Band4	10MHz	16QAM	20175	6	0	Low	1.099	1.400	PASS
Band4	15MHz	QPSK	20175	6	0	Low	1.109	1.350	PASS
Band4	15MHz	16QAM	20175	6	0	Low	1.109	1.350	PASS
Band4	20MHz	QPSK	20175	6	0	Low	1.079	1.360	PASS
Band4	20MHz	16QAM	20175	6	0	Low	1.119	1.400	PASS

Test Graphs

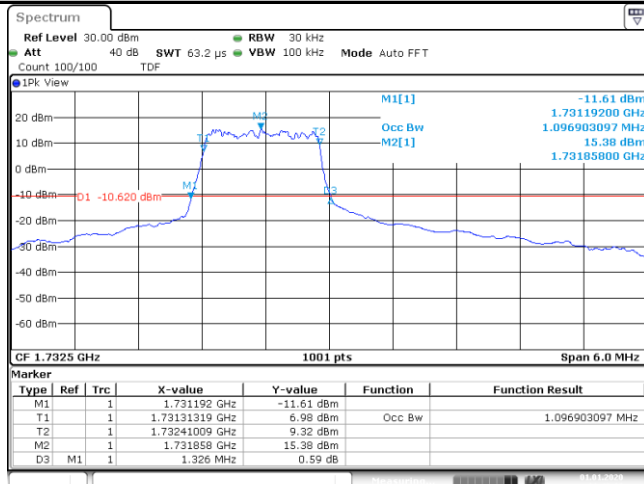


Band4_1.4MHz_16QAM_20175_6_0_Low_1.103_1.311_PASS



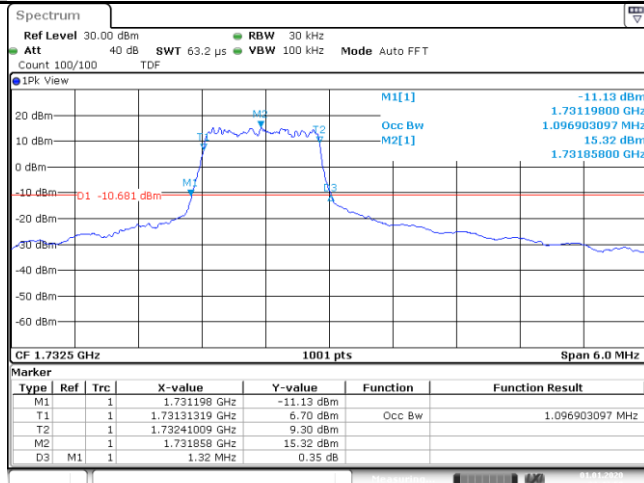
Date: 1.JAN.2020 22:42:08

Band4_3MHz_QPSK_20175_6_0_Low_1.097_1.326_PASS



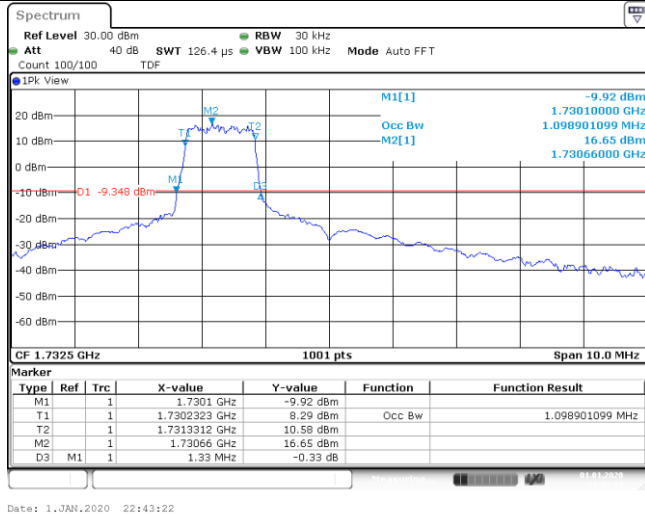
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Band4_3MHz_16QAM_20175_6_0_Low_1.097_1.320_PASS

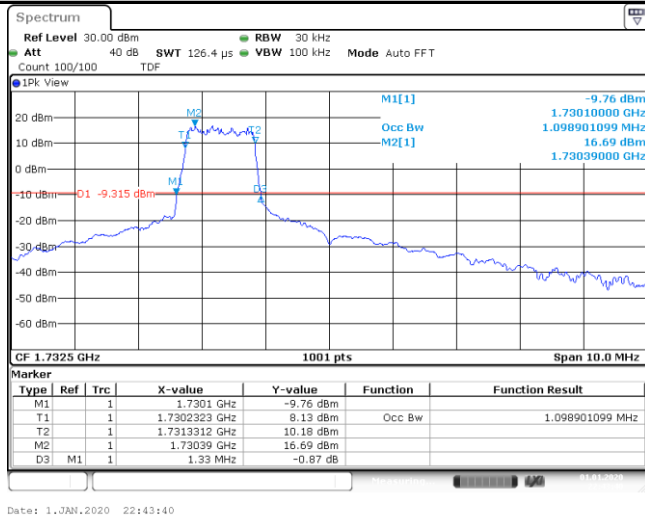


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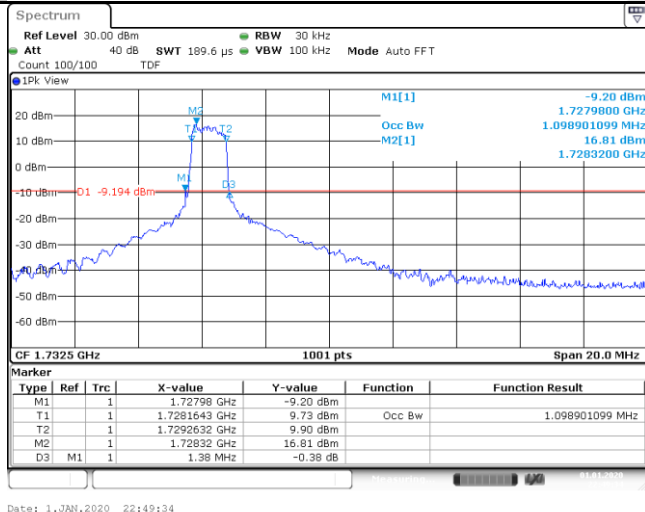
Band4_5MHz_QPSK_20175_6_0_Low_1.099_1.330_PASS



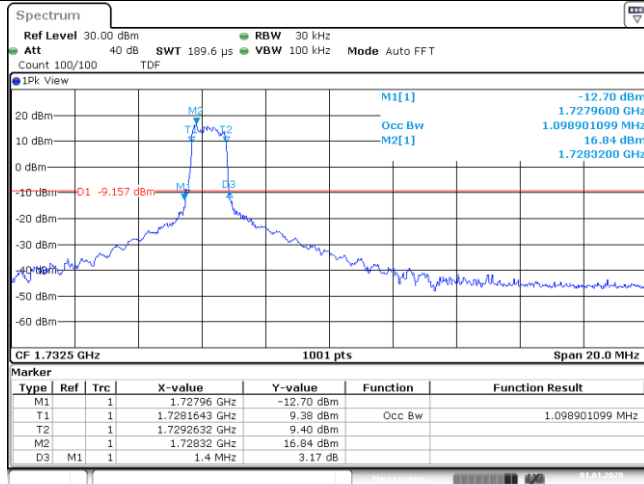
Band4_5MHz_16QAM_20175_6_0_Low_1.099_1.330_PASS



Band4_10MHz_QPSK_20175_6_0_Low_1.099_1.380_PASS

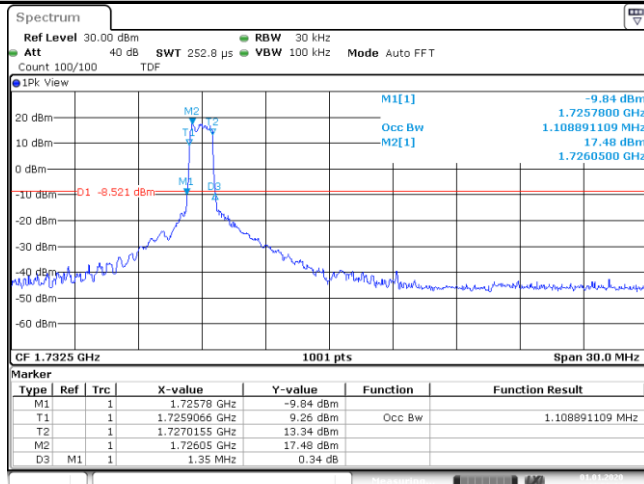


Band4_10MHz_16QAM_20175_6_0_Low_1.099_1.400_PASS



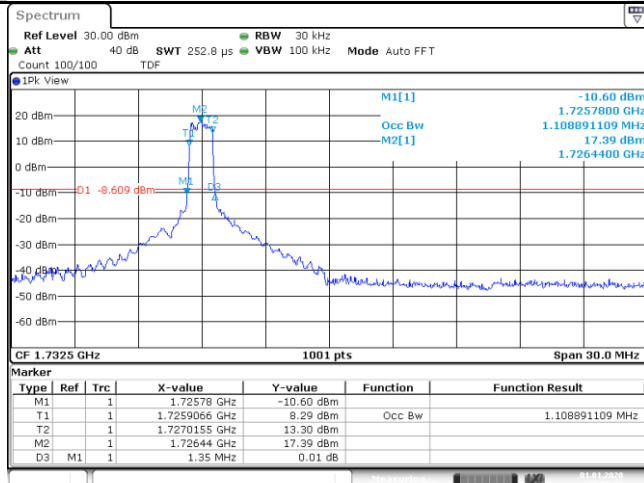
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Band4_15MHz_QPSK_20175_6_0_Low_1.109_1.350_PASS

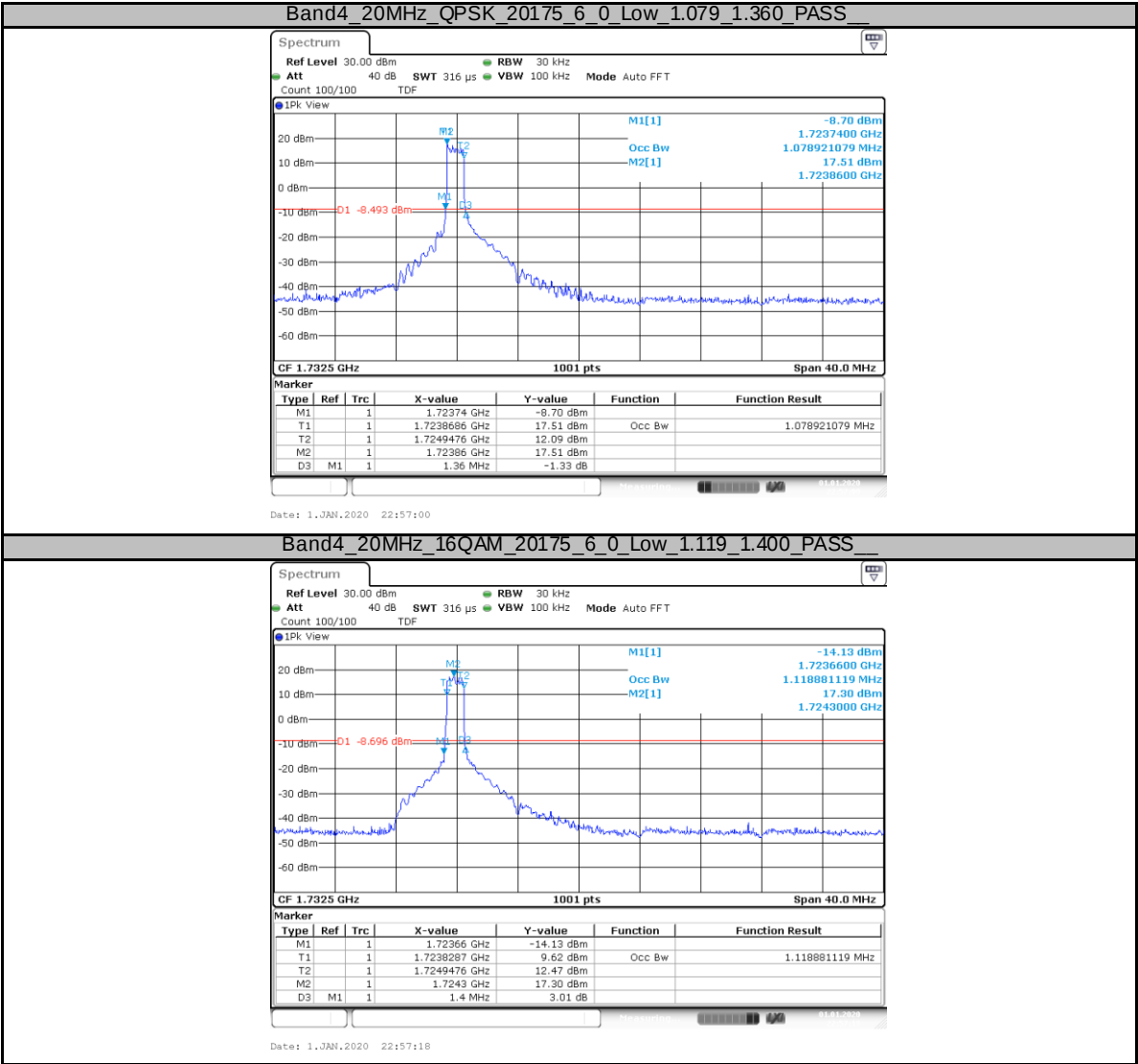


Date: 1.JAN.2020 22:50:15

Band4_15MHz_16QAM_20175_6_0_Low_1.109_1.350_PASS



Date: 1.JAN.2020 22:50:33

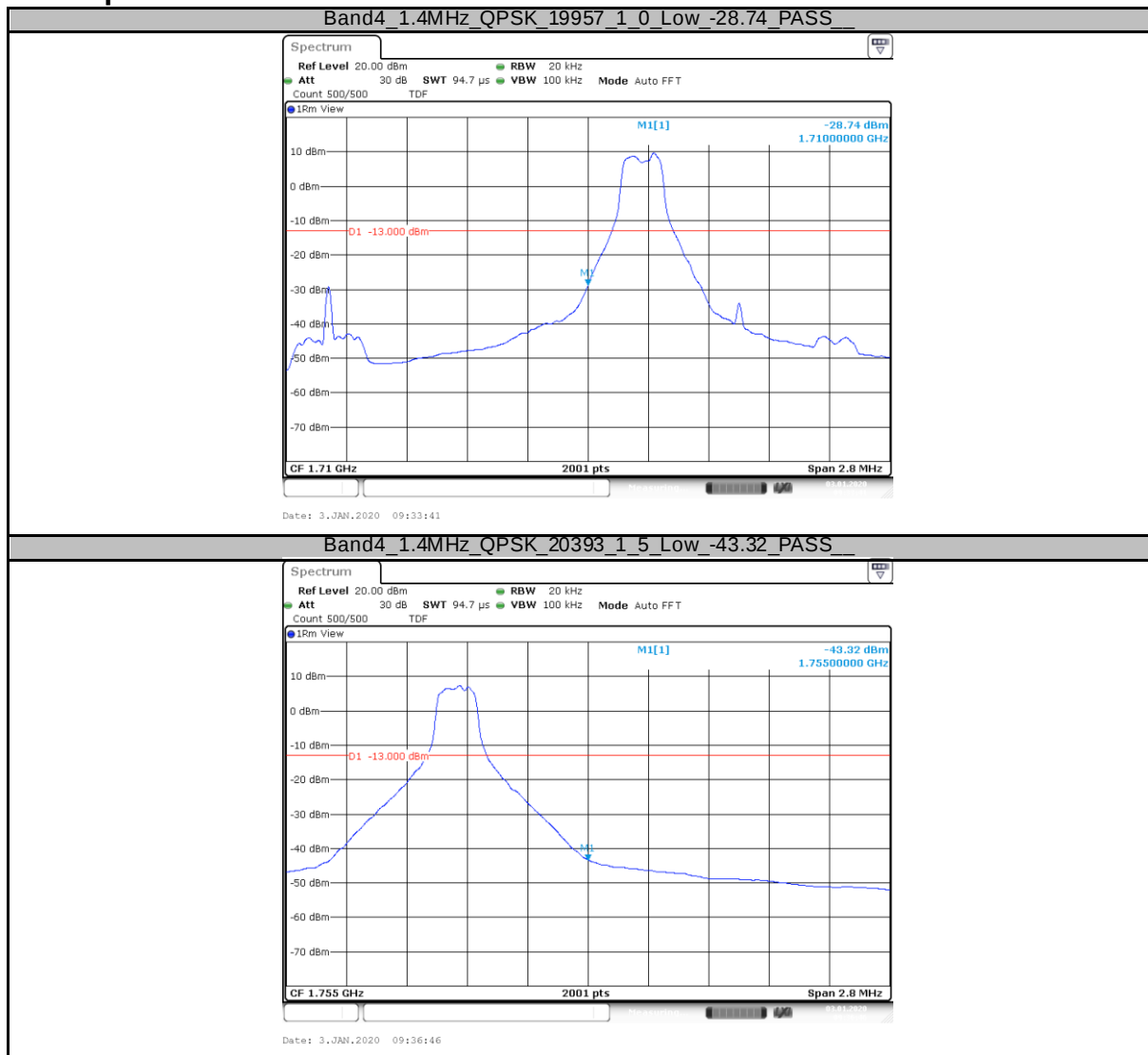


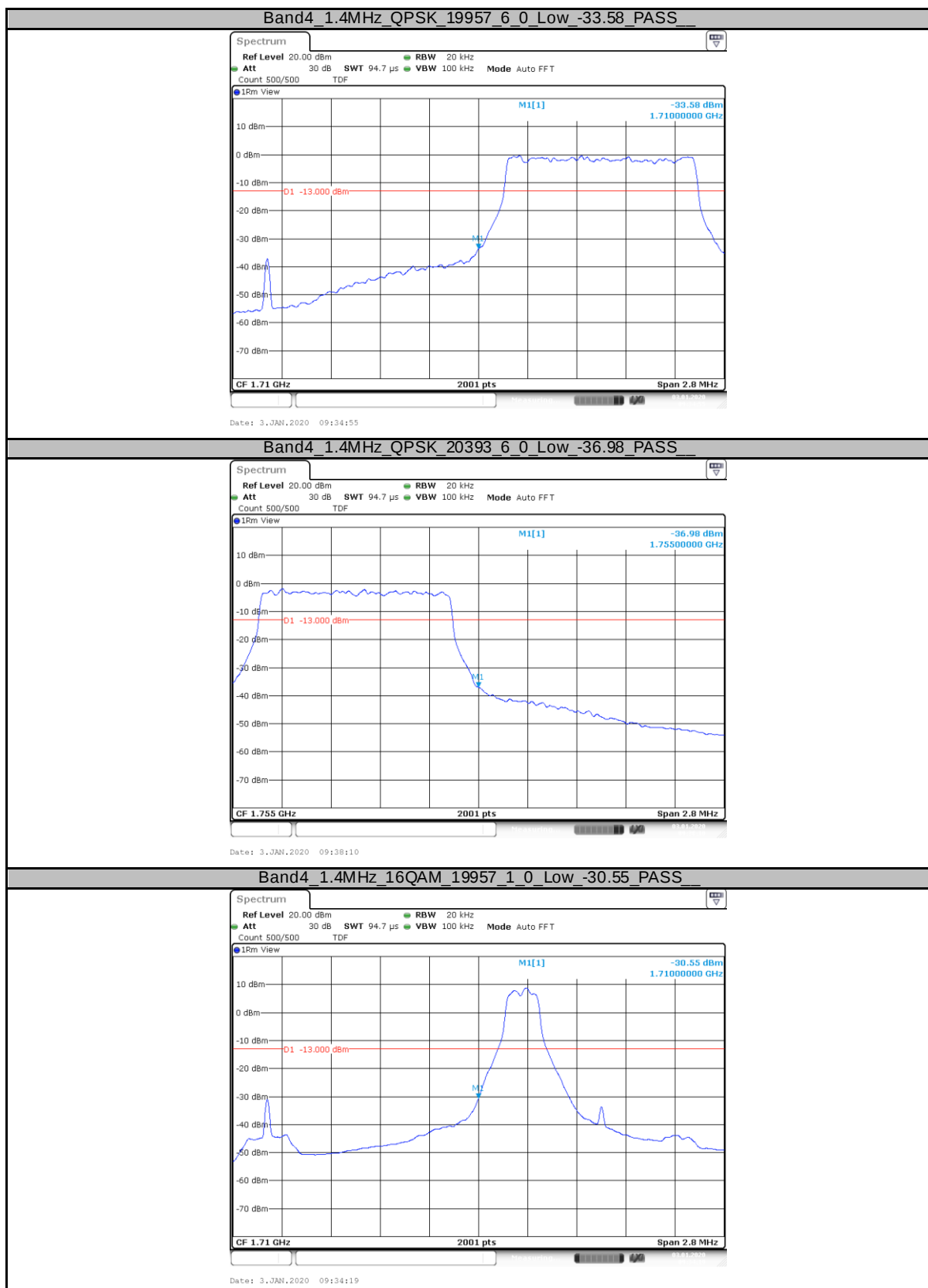
Appendix B.4: Band Edge for M1

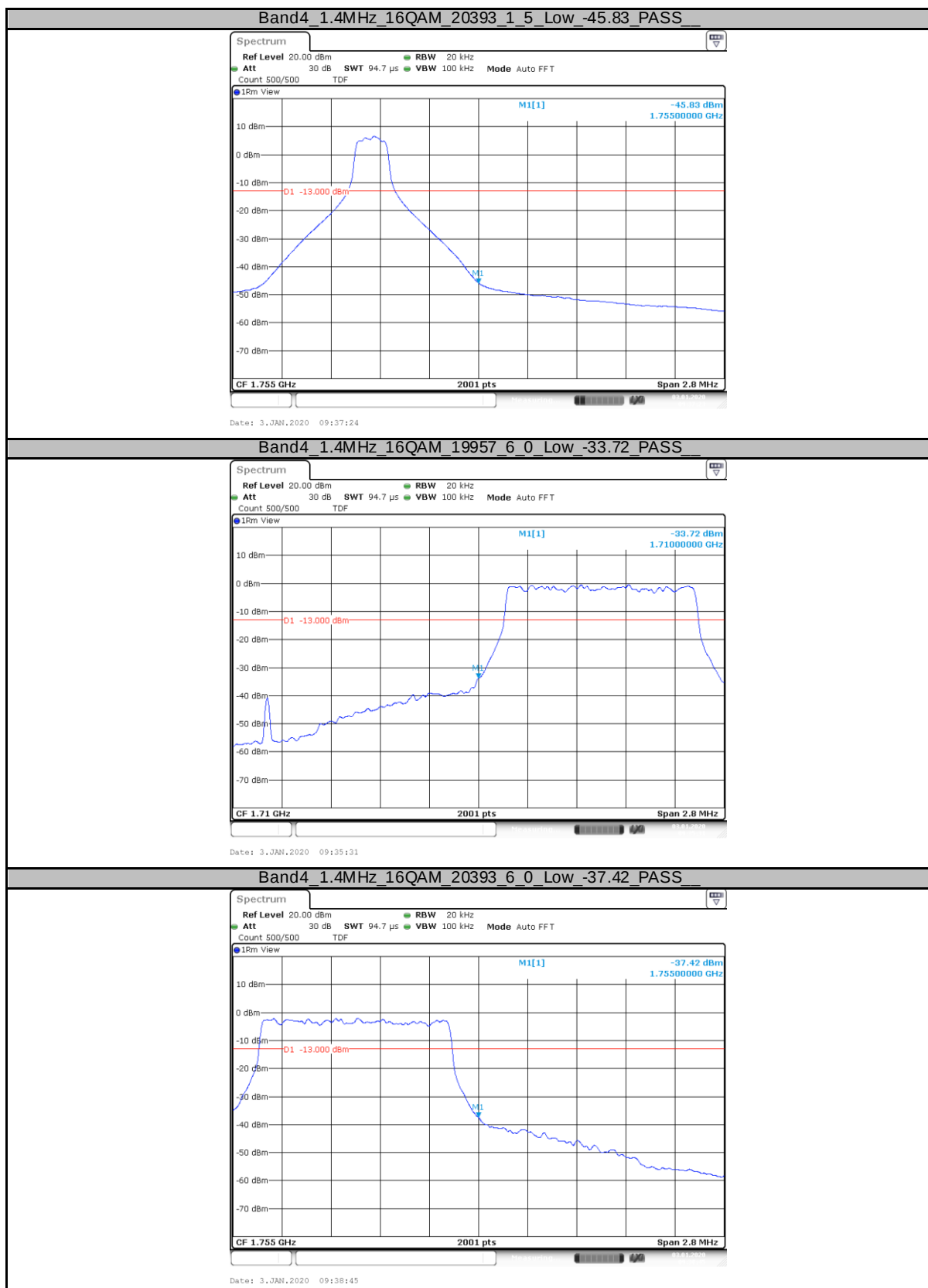
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1	0	Low	-28.74	PASS
Band4	1.4MHz	QPSK	20393	1	5	Low	-43.32	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	-33.58	PASS
Band4	1.4MHz	QPSK	20393	6	0	Low	-36.98	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	-30.55	PASS
Band4	1.4MHz	16QAM	20393	1	5	Low	-45.83	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	-33.72	PASS
Band4	1.4MHz	16QAM	20393	6	0	Low	-37.42	PASS

Test Graphs







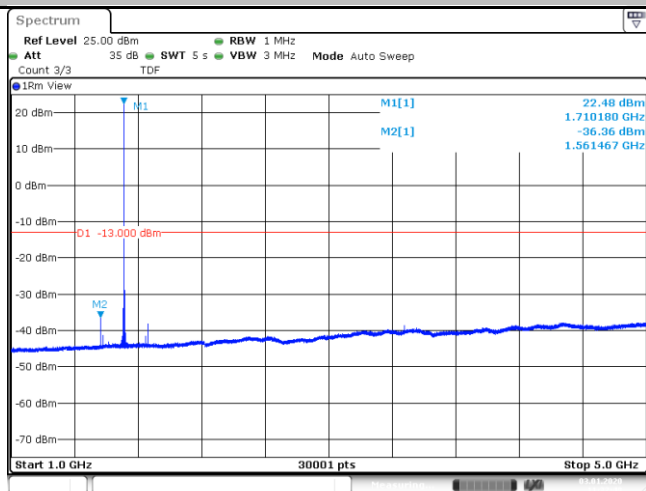
Appendix B.5: Conducted Spurious Emission for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1	0	Low	1000	5000	-36.36	PASS
Band4	1.4MHz	QPSK	19957	1	0	Low	5000	12000	-47.62	PASS
Band4	1.4MHz	QPSK	19957	1	0	Low	12000	26500	-41.4	PASS
Band4	1.4MHz	QPSK	19957	1	0	Low	30	1000	-35.54	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	5000	12000	-47.5	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	1000	5000	-37.87	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	30	1000	-35.28	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	12000	26500	-41.5	PASS
Band4	1.4MHz	QPSK	20393	1	5	Low	5000	12000	-47.25	PASS
Band4	1.4MHz	QPSK	20393	1	5	Low	1000	5000	-37.82	PASS
Band4	1.4MHz	QPSK	20393	1	5	Low	12000	26500	-41.14	PASS
Band4	1.4MHz	QPSK	20393	1	5	Low	30	1000	-35.43	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	5000	12000	-47.29	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	12000	26500	-41.53	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	1000	5000	-37.78	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	30	1000	-35.8	PASS
Band4	1.4MHz	QPSK	20175	6	0	Low	30	1000	-35.48	PASS
Band4	1.4MHz	QPSK	20175	6	0	Low	5000	12000	-47.28	PASS
Band4	1.4MHz	QPSK	20175	6	0	Low	1000	5000	-37.76	PASS
Band4	1.4MHz	QPSK	20175	6	0	Low	12000	26500	-41.27	PASS
Band4	1.4MHz	QPSK	20393	6	0	Low	30	1000	-34.73	PASS
Band4	1.4MHz	QPSK	20393	6	0	Low	1000	5000	-37.83	PASS
Band4	1.4MHz	QPSK	20393	6	0	Low	5000	12000	-47.42	PASS
Band4	1.4MHz	QPSK	20393	6	0	Low	12000	26500	-41.42	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	30	1000	-35.75	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	1000	5000	-37.33	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	12000	26500	-41.3	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	5000	12000	-47.35	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	1000	5000	-37.09	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	12000	26500	-41.45	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	30	1000	-36.01	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	5000	12000	-47.52	PASS
Band4	1.4MHz	16QAM	20393	1	5	Low	12000	26500	-41.41	PASS
Band4	1.4MHz	16QAM	20393	1	5	Low	5000	12000	-47.53	PASS
Band4	1.4MHz	16QAM	20393	1	5	Low	1000	5000	-36.92	PASS
Band4	1.4MHz	16QAM	20393	1	5	Low	30	1000	-35.52	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	12000	26500	-41.48	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	5000	12000	-47.29	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	1000	5000	-37.85	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	30	1000	-35.11	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	1000	5000	-37.71	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	5000	12000	-47.3	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	30	1000	-35.87	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	12000	26500	-41.34	PASS
Band4	1.4MHz	16QAM	20393	6	0	Low	12000	26500	-41.5	PASS
Band4	1.4MHz	16QAM	20393	6	0	Low	30	1000	-35.65	PASS
Band4	1.4MHz	16QAM	20393	6	0	Low	1000	5000	-37.85	PASS
Band4	1.4MHz	16QAM	20393	6	0	Low	5000	12000	-47.54	PASS

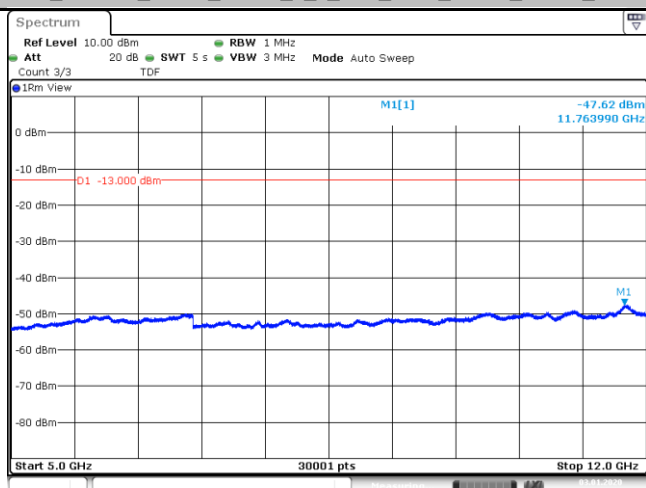
Test Graphs

Band4_1.4MHz_QPSK_19957_1_0_Low_1000_5000_-36.36_PASS__



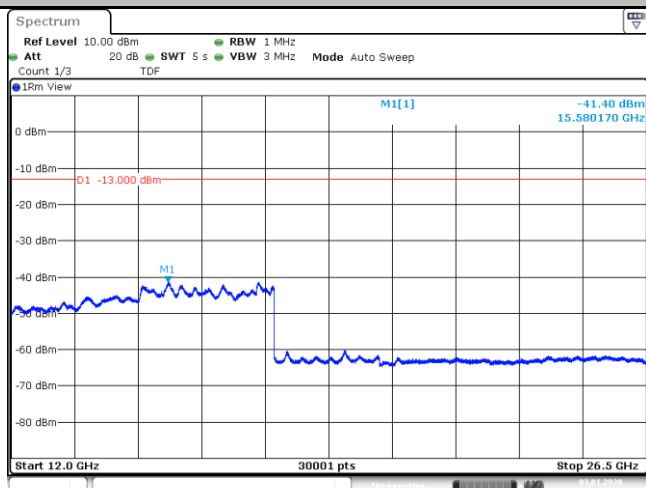
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Band4_1.4MHz_QPSK_19957_1_0_Low_5000_12000_-47.62_PASS__



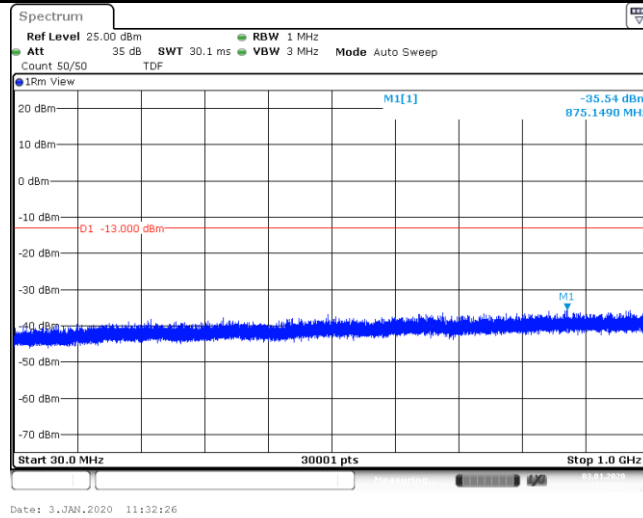
Date: 3.JAN.2020 11:33:11

Band4_1.4MHz_QPSK_19957_1_0_Low_12000_26500_-41.4_PASS__

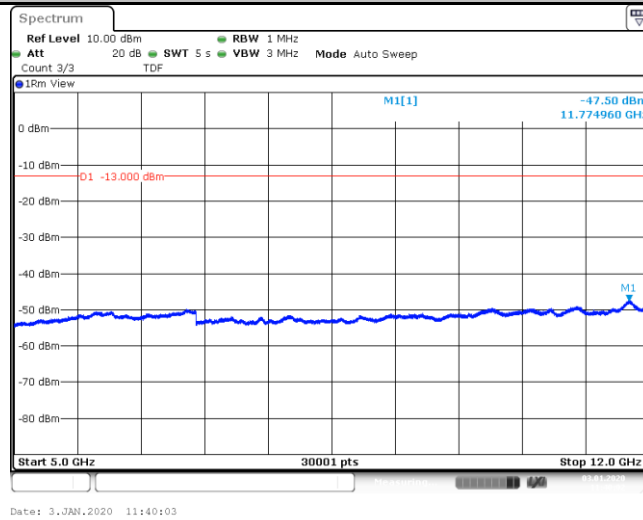


Date: 3.JAN.2020 11:33:33

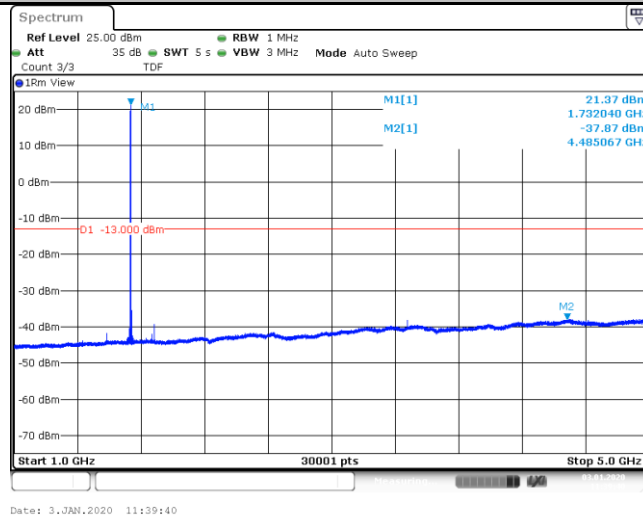
Band4_1.4MHz_QPSK_19957_1_0_Low_30_1000_-35.54_PASS__



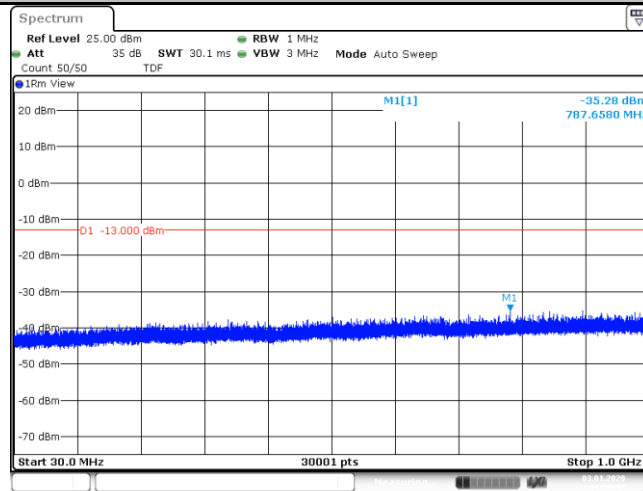
Band4_1.4MHz_QPSK_20175_1_0_Low_5000_12000_-47.5_PASS__



Band4_1.4MHz_QPSK_20175_1_0_Low_1000_5000_-37.87_PASS__

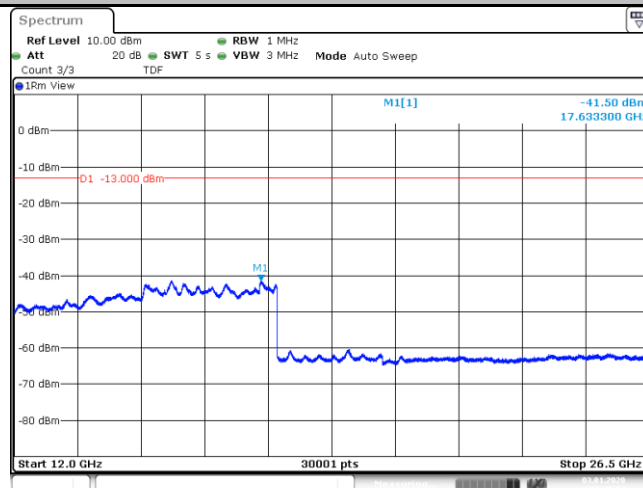


Band4_1.4MHz_QPSK_20175_1_0_Low_30_1000_-35.28_PASS__



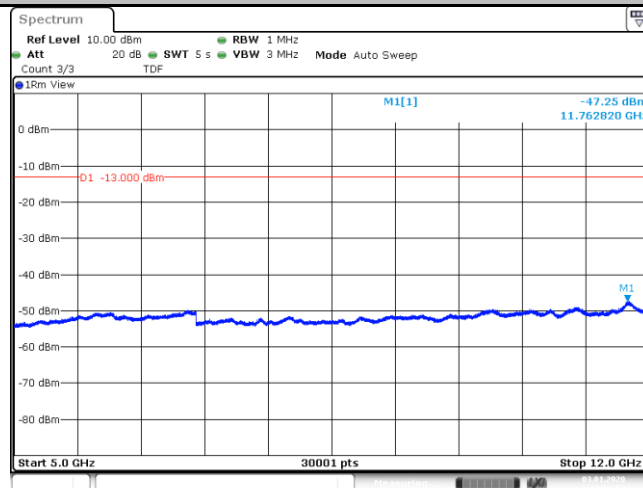
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Band4_1.4MHz_QPSK_20175_1_0_Low_12000_26500_-41.5_PASS__



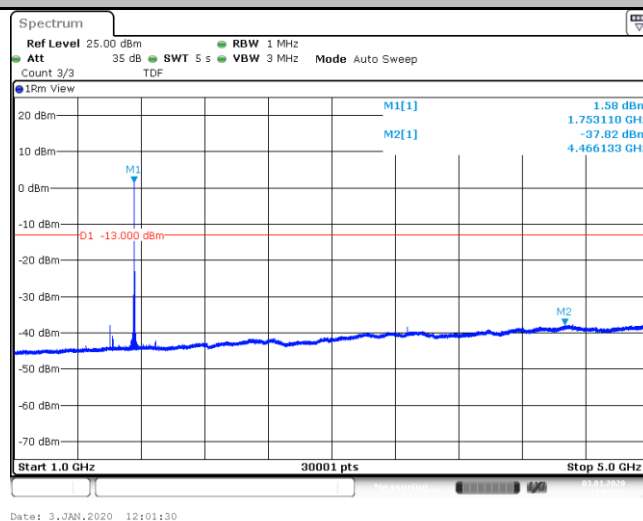
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Band4_1.4MHz_QPSK_20393_1_5_Low_5000_12000_-47.25_PASS__

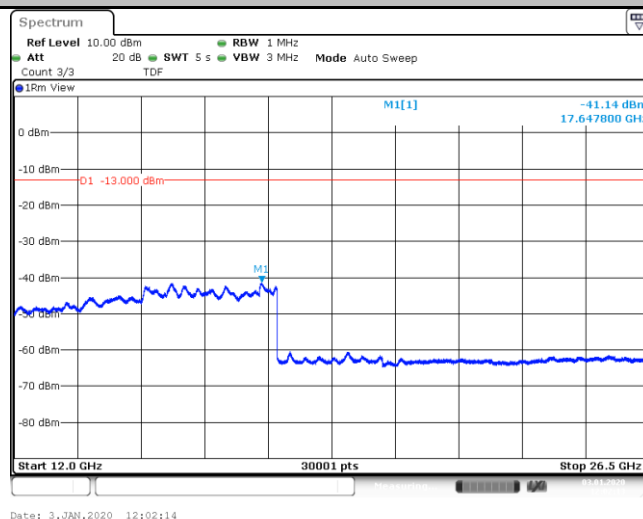


Date: 3.JAN.2020 12:01:52

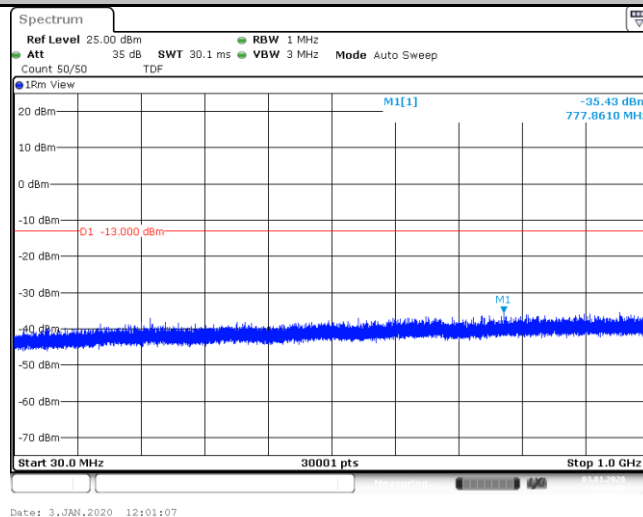
Band4_1.4MHz_QPSK_20393_1_5_Low_1000_5000_-37.82_PASS__



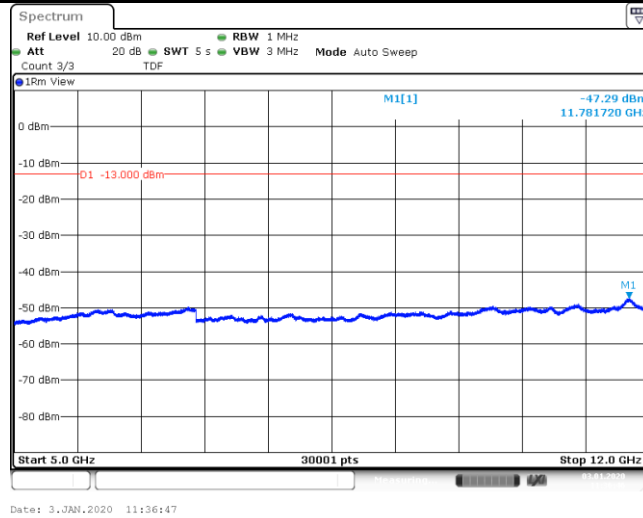
Band4_1.4MHz_QPSK_20393_1_5_Low_12000_26500_-41.14_PASS__



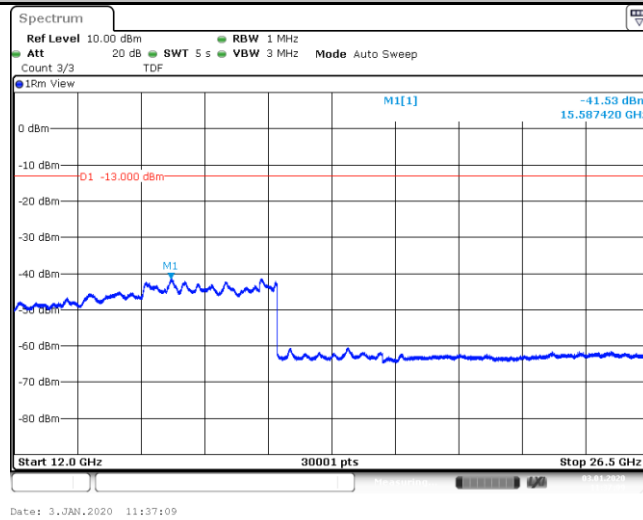
Band4_1.4MHz_QPSK_20393_1_5_Low_30_1000_-35.43_PASS__



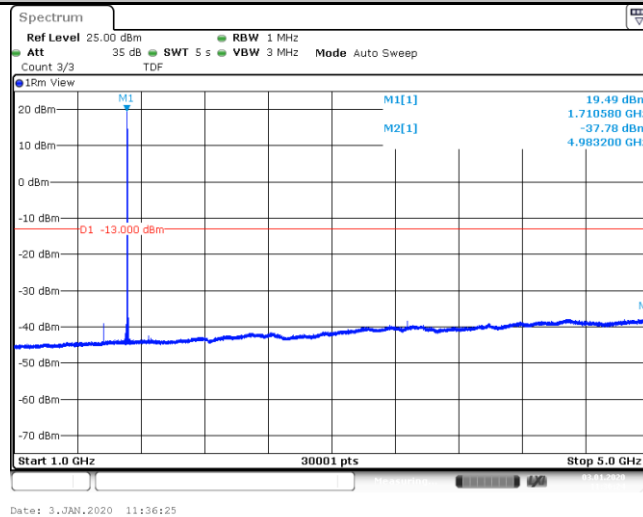
Band4_1.4MHz_QPSK_19957_6_0_Low_5000_12000_-47.29_PASS__



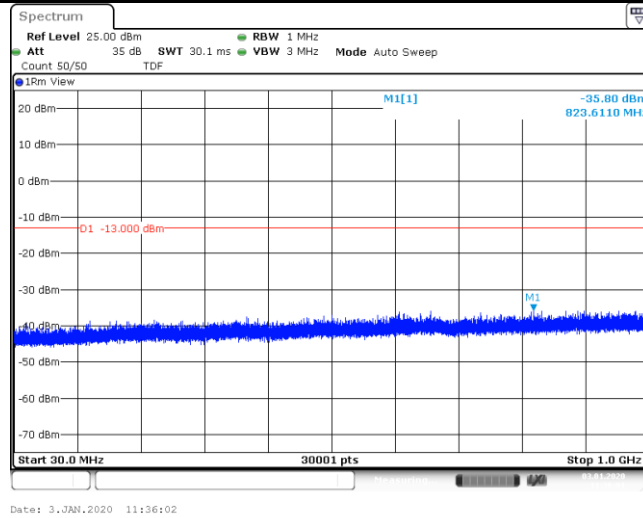
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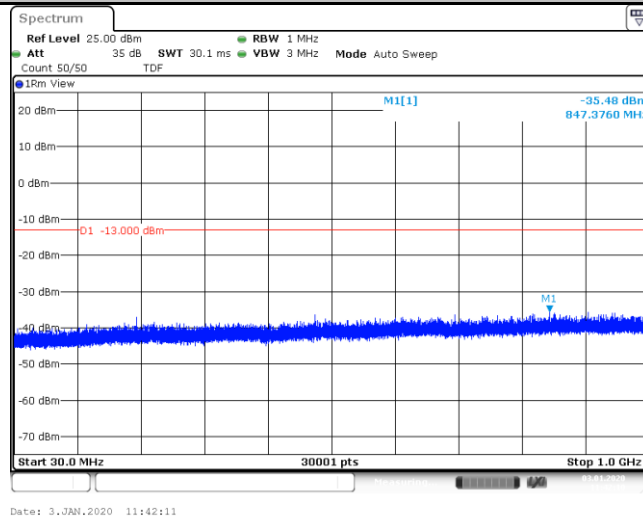
Band4_1.4MHz_QPSK_19957_6_0_Low_1000_5000_-37.78_PASS__



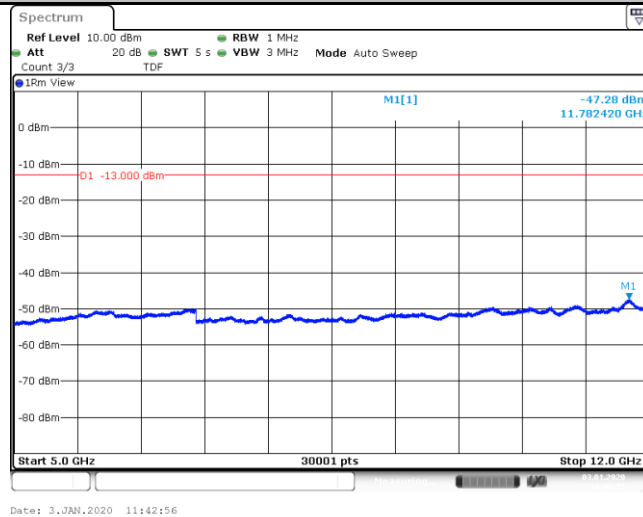
Band4_1.4MHz_QPSK_19957_6_0_Low_30_1000_-35.8_PASS__



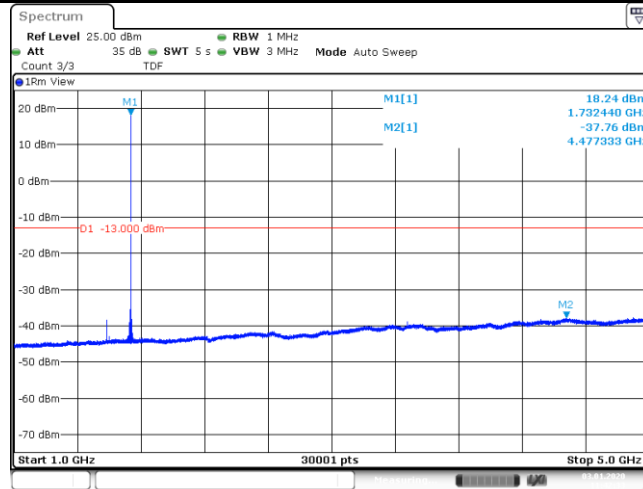
Band4_1.4MHz_QPSK_20175_6_0_Low_30_1000_-35.48_PASS__



Band4_1.4MHz_QPSK_20175_6_0_Low_5000_12000_-47.28_PASS__

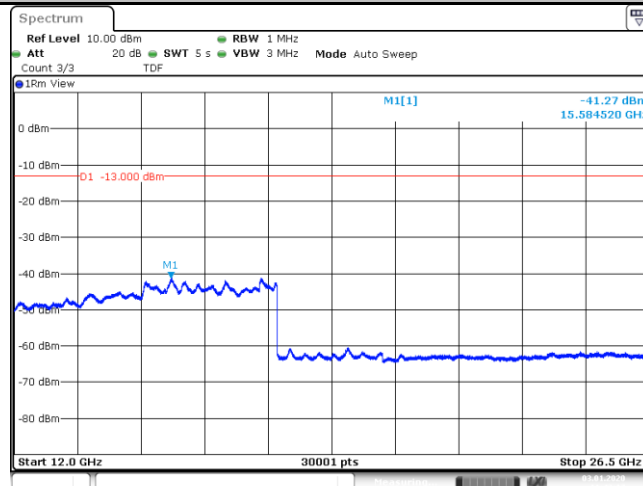


Band4_1.4MHz_QPSK_20175_6_0_Low_1000_5000_-37.76_PASS_



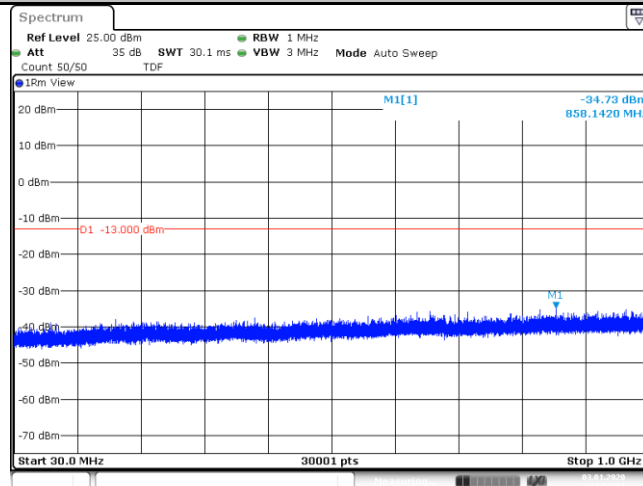
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Band4_1.4MHz_QPSK_20175_6_0_Low_12000_26500_-41.27_PASS_



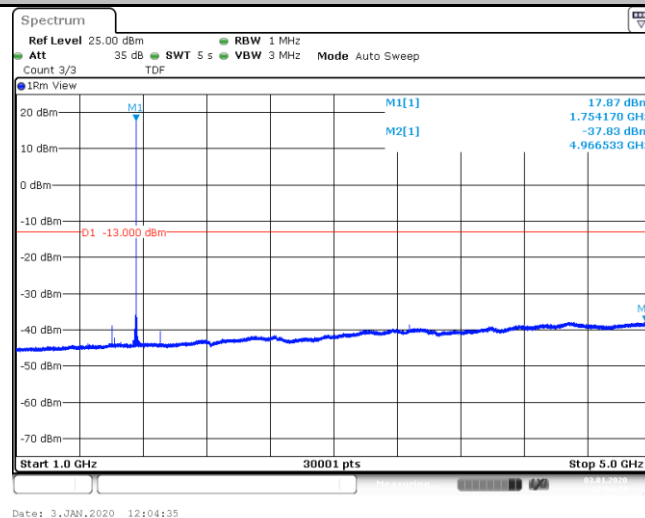
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Band4_1.4MHz_QPSK_20393_6_0_Low_30_1000_-34.73_PASS_

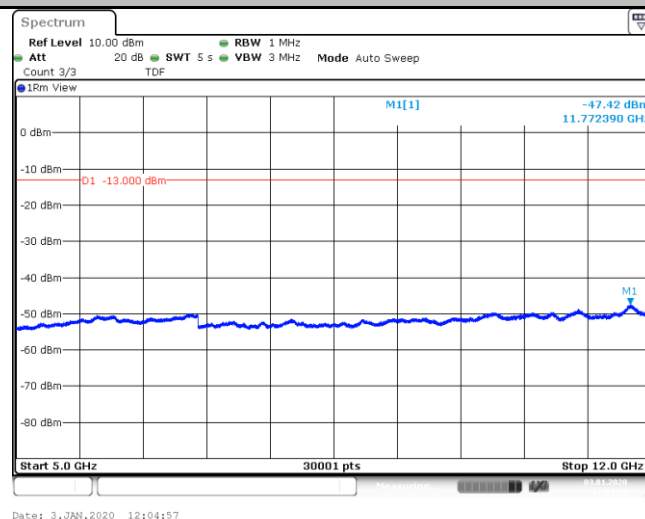


Date: 3.JAN.2020 12:04:12

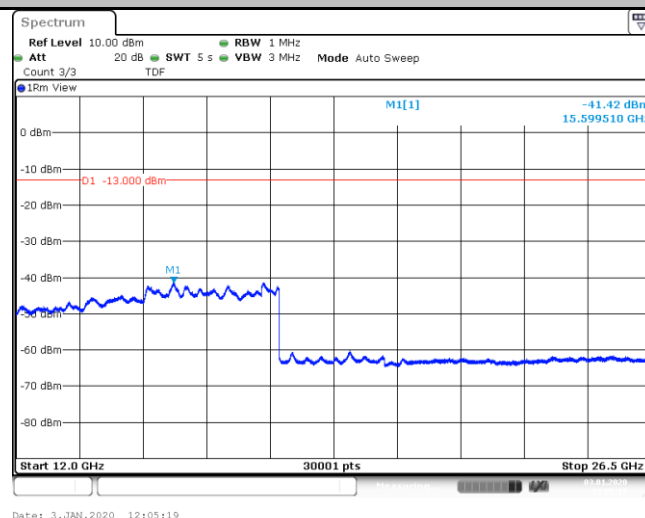
Band4_1.4MHz_QPSK_20393_6_0_Low_1000_5000_-37.83_PASS__



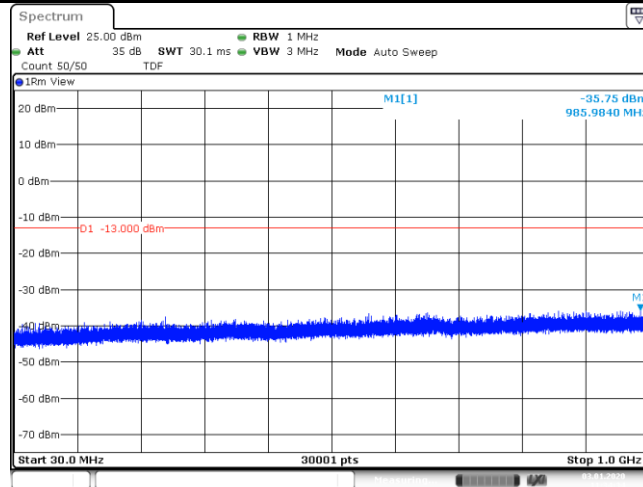
Band4_1.4MHz_QPSK_20393_6_0_Low_5000_12000_-47.42_PASS__



Band4_1.4MHz_QPSK_20393_6_0_Low_12000_26500_-41.42_PASS__

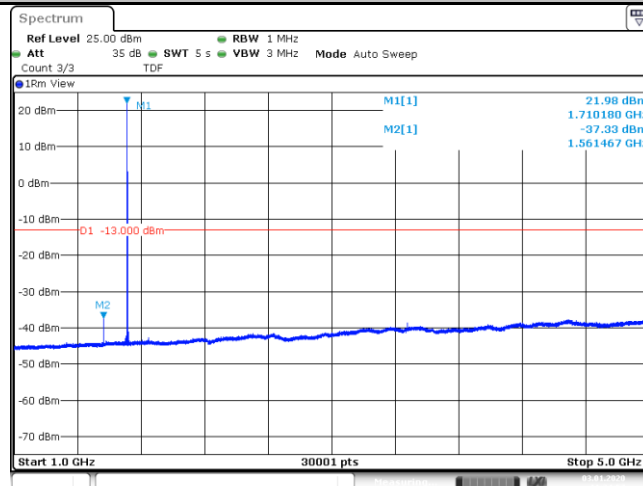


Band4_1.4MHz_16QAM_19957_1_0_Low_30_1000_-35.75_PASS__



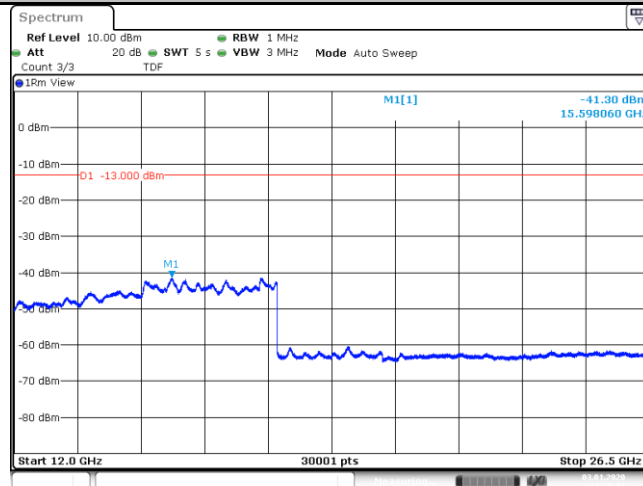
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Band4_1.4MHz_16QAM_19957_1_0_Low_1000_5000_-37.33_PASS__



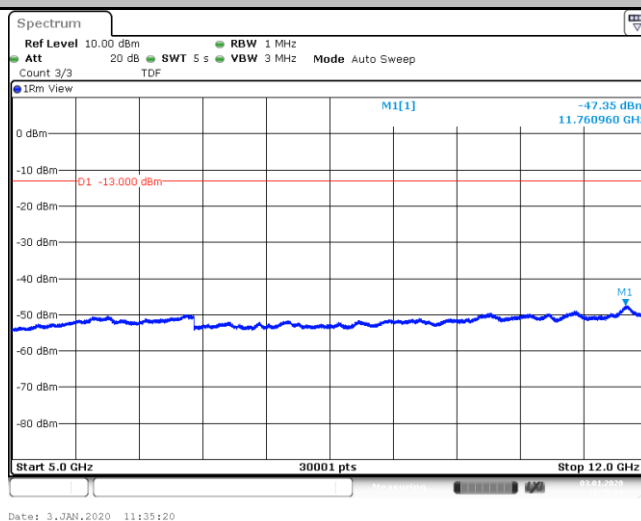
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Band4_1.4MHz_16QAM_19957_1_0_Low_12000_26500_-41.3_PASS__

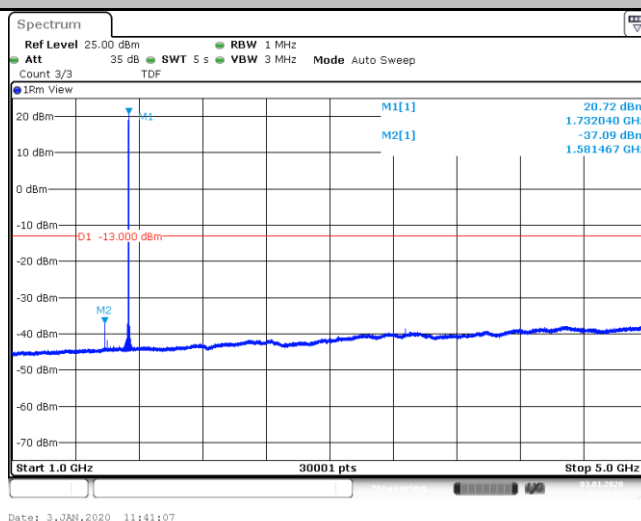


Date: 3.JAN.2020 11:35:42

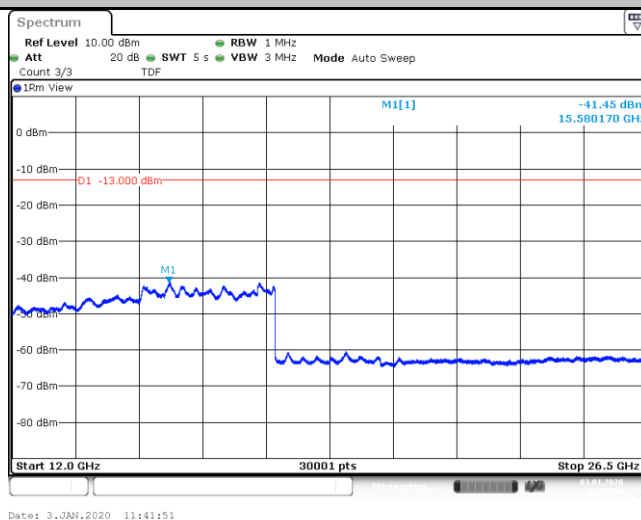
Band4_1.4MHz_16QAM_19957_1_0_Low_5000_12000_-47.35_PASS__



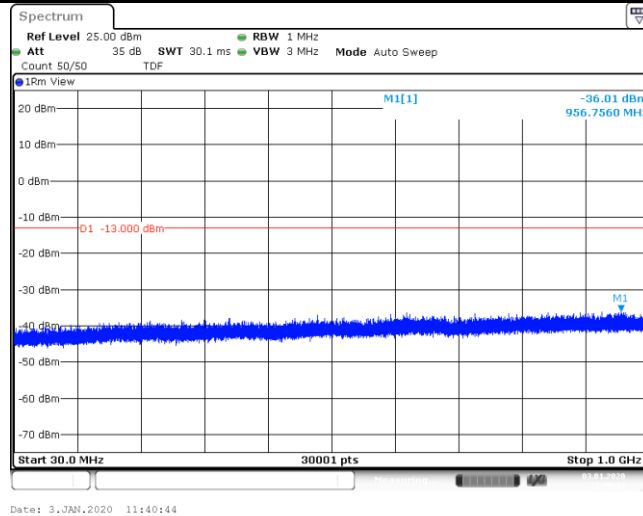
Band4_1.4MHz_16QAM_20175_1_0_Low_1000_5000_-37.09_PASS__



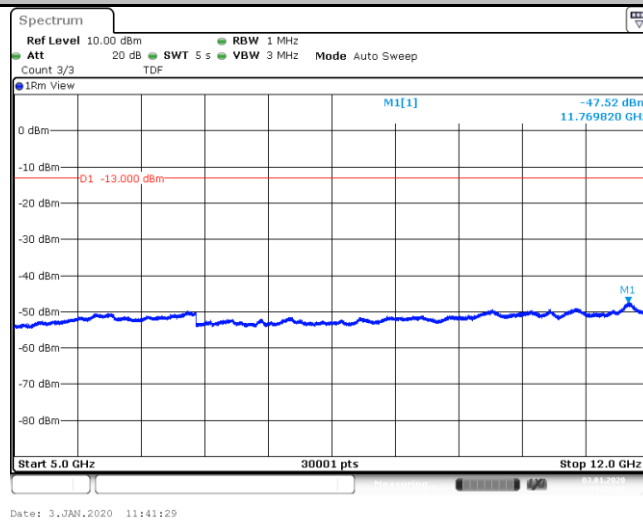
Band4_1.4MHz_16QAM_20175_1_0_Low_12000_26500_-41.45_PASS__



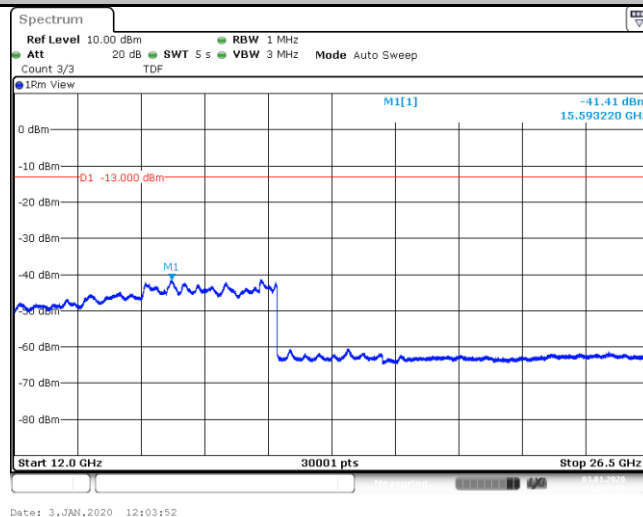
Band4_1.4MHz_16QAM_20175_1_0_Low_30_1000_-36.01_PASS__



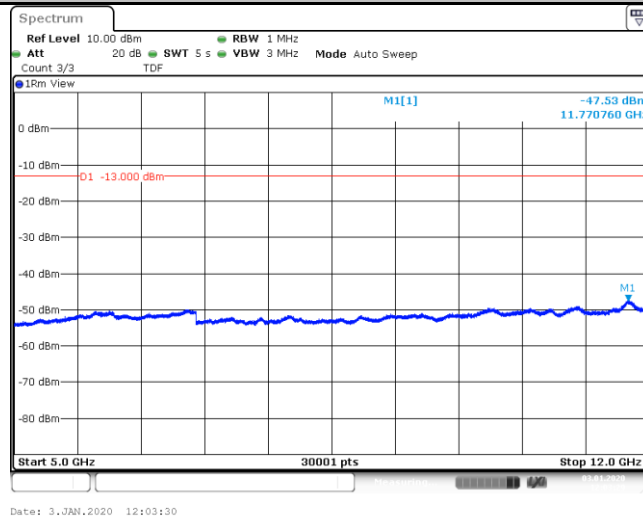
Band4_1.4MHz_16QAM_20175_1_0_Low_5000_12000_-47.52_PASS__



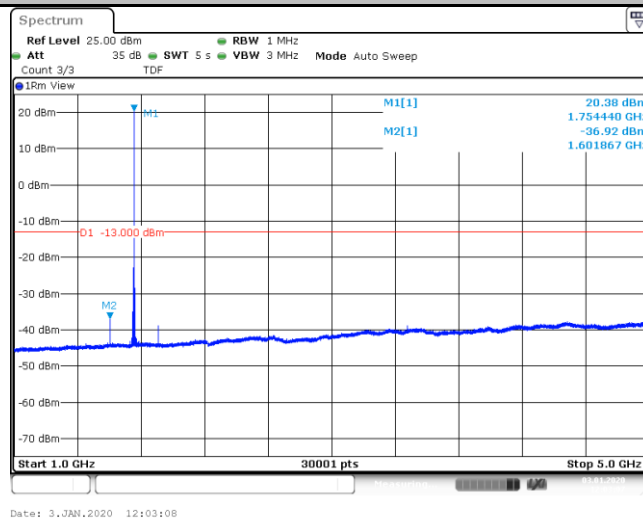
Band4_1.4MHz_16QAM_20393_1_5_Low_12000_26500_-41.41_PASS__



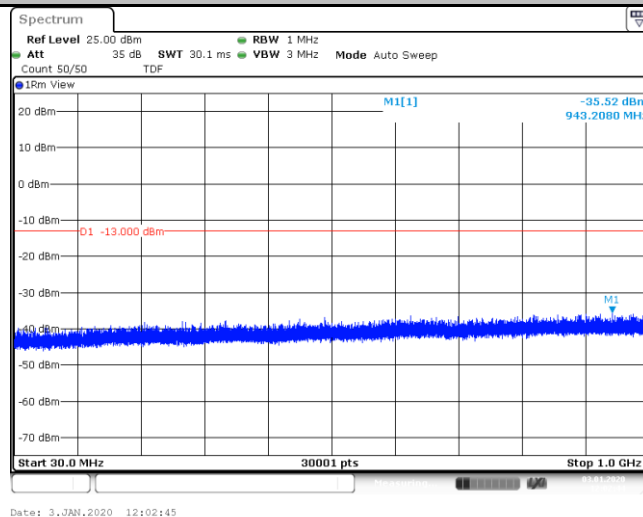
Band4_1.4MHz_16QAM_20393_1_5_Low_5000_12000_-47.53_PASS__



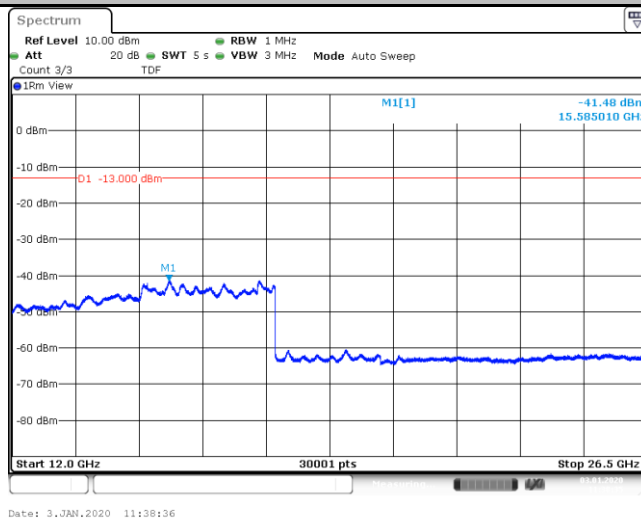
Band4_1.4MHz_16QAM_20393_1_5_Low_1000_5000_-36.92_PASS__



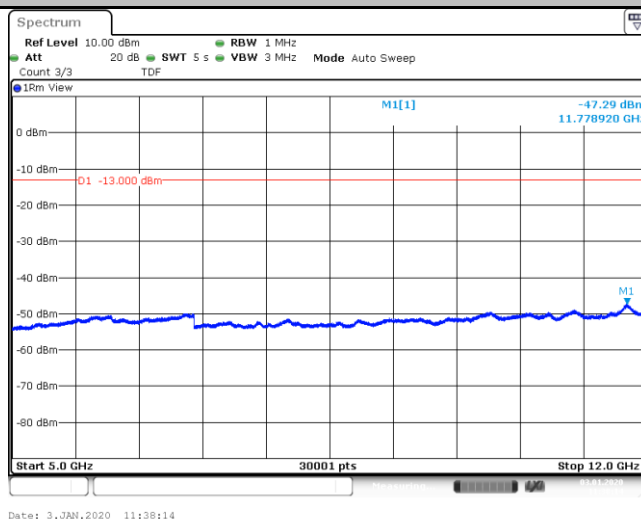
Band4_1.4MHz_16QAM_20393_1_5_Low_30_1000_-35.52_PASS__



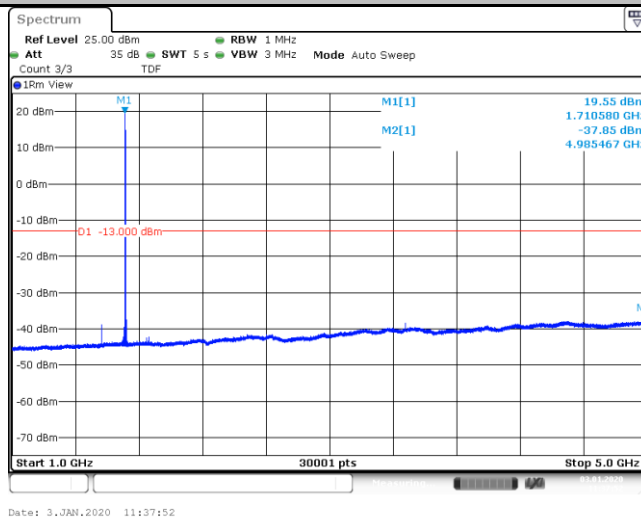
Band4_1.4MHz_16QAM_19957_6_0_Low_12000_26500_-41.48_PASS__



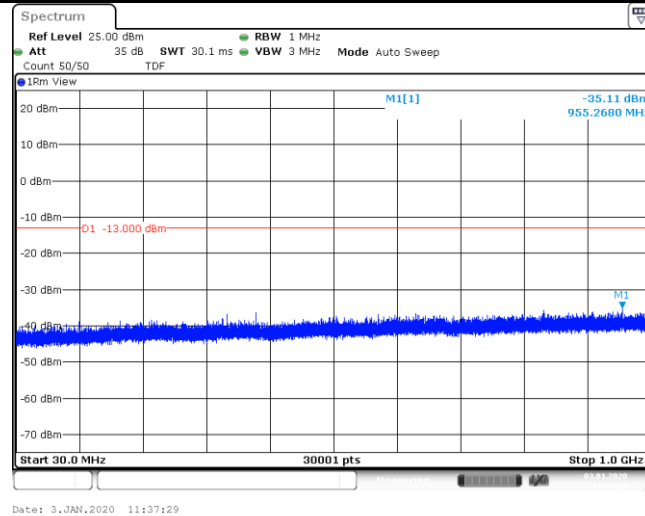
Band4_1.4MHz_16QAM_19957_6_0_Low_5000_12000_-47.29_PASS__



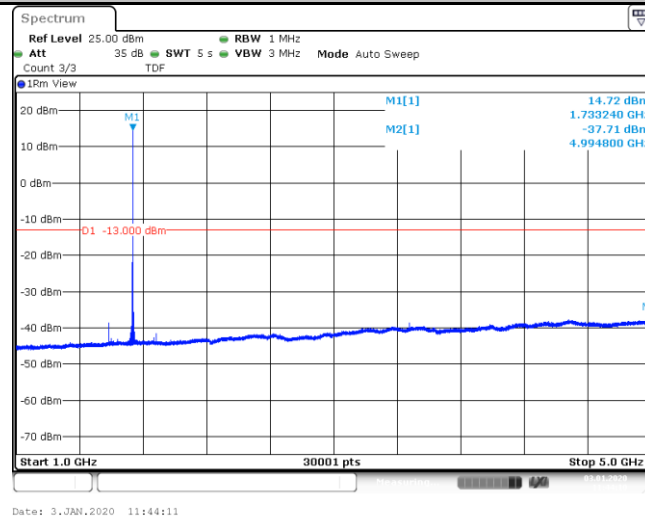
Band4_1.4MHz_16QAM_19957_6_0_Low_1000_5000_-37.85_PASS__



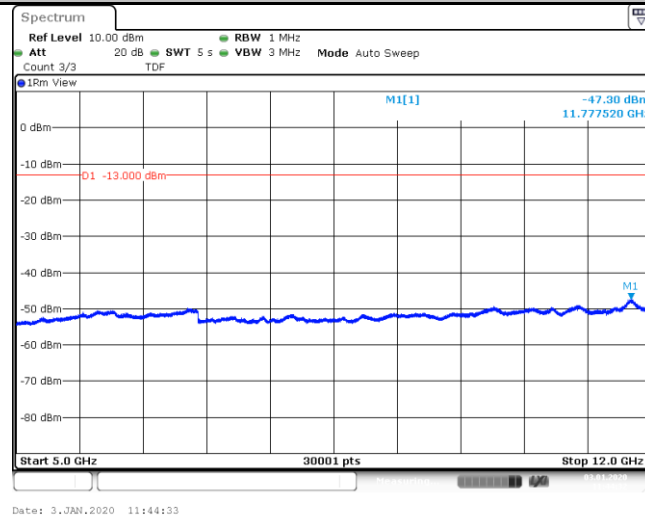
Band4_1.4MHz_16QAM_19957_6_0_Low_30_1000_-35.11_PASS__



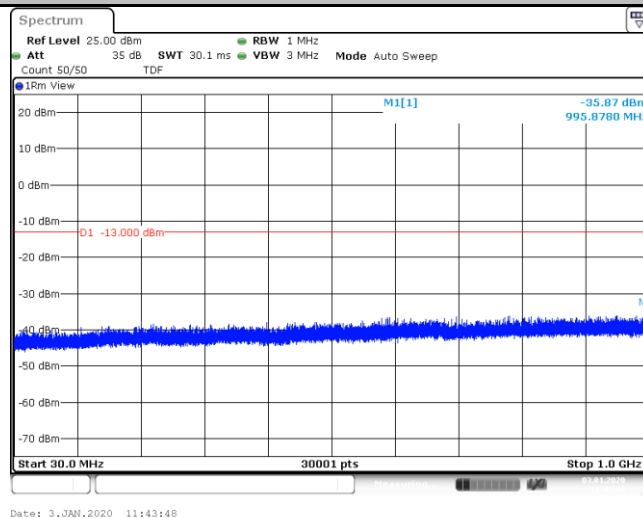
Band4_1.4MHz_16QAM_20175_6_0_Low_1000_5000_-37.71_PASS__



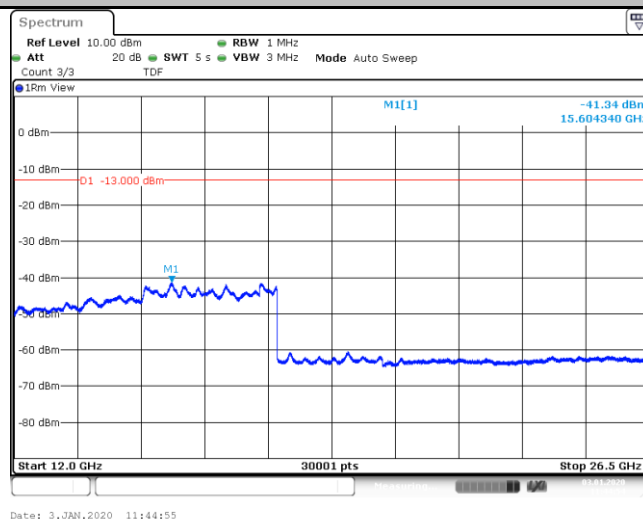
Band4_1.4MHz_16QAM_20175_6_0_Low_5000_12000_-47.3_PASS__



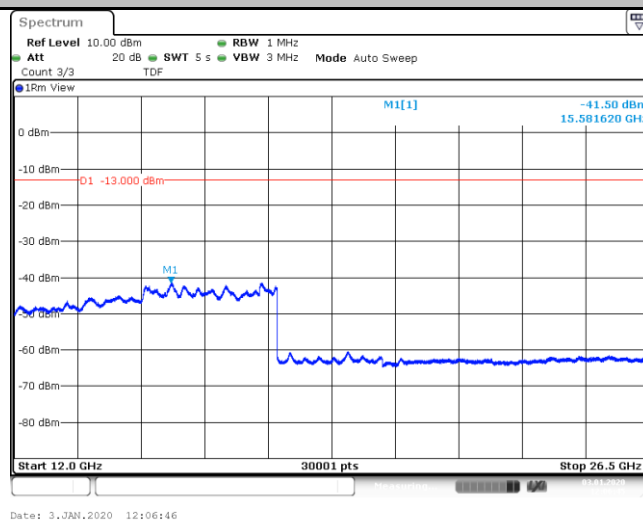
Band4_1.4MHz_16QAM_20175_6_0_Low_30_1000_-35.87_PASS__



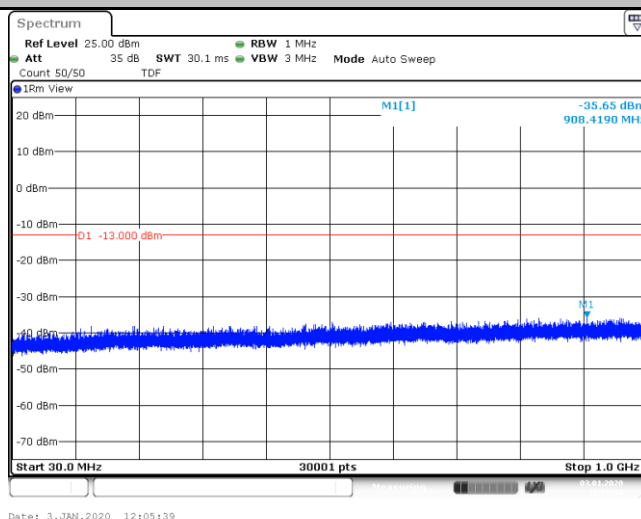
Band4_1.4MHz_16QAM_20175_6_0_Low_12000_26500_-41.34_PASS__



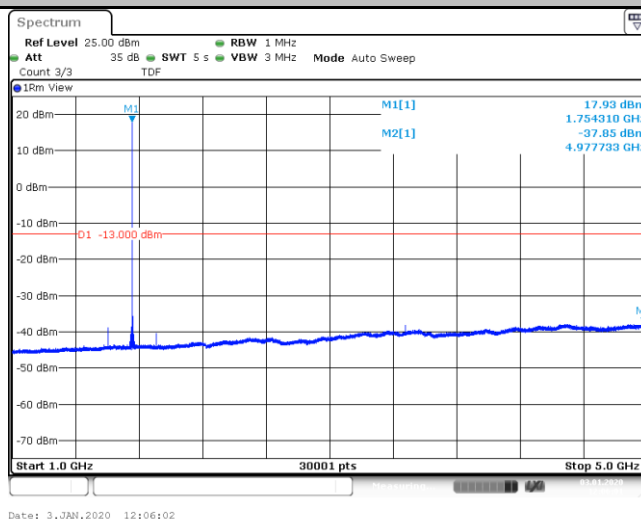
Band4_1.4MHz_16QAM_20393_6_0_Low_12000_26500_-41.5_PASS__



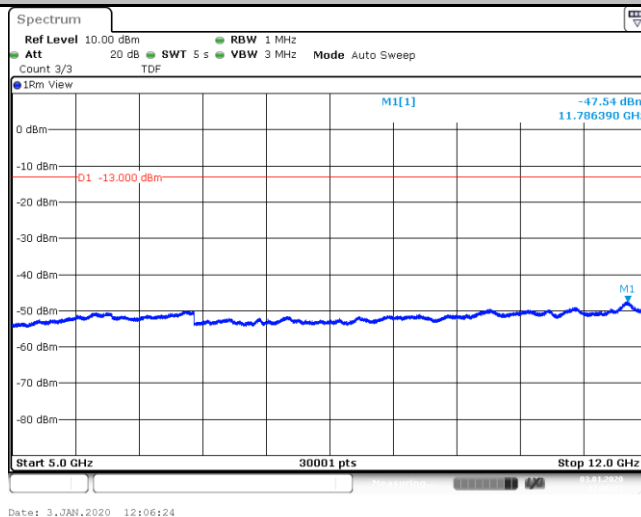
Band4_1.4MHz_16QAM_20393_6_0_Low_30_1000_-35.65_PASS__



Band4_1.4MHz_16QAM_20393_6_0_Low_1000_5000_-37.85_PASS__



Band4_1.4MHz_16QAM_20393_6_0_Low_5000_12000_-47.54_PASS__



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