

Appendix A: Test Results of Band 2 for eMTC operation

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APPENDIX A.1: RF POWER OUTPUT AND EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dBm)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	23.44	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	21.24	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	23.11	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	21.12	PASS
Band2	1.4MHz	19193	QPSK	1	5	Low	22.54	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	21.11	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	22.08	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	21.34	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	21.75	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	21.32	PASS
Band2	1.4MHz	19193	16QAM	1	5	Low	21.34	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	21.21	PASS
Band2	3MHz	18615	QPSK	1	0	Low	23.44	PASS
Band2	3MHz	18615	QPSK	6	0	Low	21.05	PASS
Band2	3MHz	18900	QPSK	1	0	Low	23.11	PASS
Band2	3MHz	18900	QPSK	6	0	Low	21.33	PASS
Band2	3MHz	19185	QPSK	1	5	High	22.52	PASS
Band2	3MHz	19185	QPSK	6	0	High	21.21	PASS
Band2	3MHz	18615	16QAM	1	0	Low	22.10	PASS
Band2	3MHz	18615	16QAM	6	0	Low	21.05	PASS
Band2	3MHz	18900	16QAM	1	0	Low	21.75	PASS
Band2	3MHz	18900	16QAM	6	0	Low	21.44	PASS
Band2	3MHz	19185	16QAM	1	5	High	21.34	PASS
Band2	3MHz	19185	16QAM	6	0	High	21.21	PASS
Band2	5MHz	18625	QPSK	1	0	Low	23.51	PASS
Band2	5MHz	18625	QPSK	6	0	Low	22.37	PASS
Band2	5MHz	18900	QPSK	1	0	Low	23.08	PASS
Band2	5MHz	18900	QPSK	6	0	Low	22.02	PASS
Band2	5MHz	19175	QPSK	1	5	High	22.61	PASS
Band2	5MHz	19175	QPSK	3	3	High	21.56	PASS
Band2	5MHz	18625	16QAM	1	0	Low	23.49	PASS
Band2	5MHz	18625	16QAM	6	0	Low	22.38	PASS
Band2	5MHz	18900	16QAM	1	0	Low	23.16	PASS
Band2	5MHz	18900	16QAM	6	0	Low	22.03	PASS
Band2	5MHz	19175	16QAM	1	5	High	22.67	PASS
Band2	5MHz	19175	16QAM	3	3	High	21.74	PASS
Band2	10MHz	18650	QPSK	1	0	Low	23.51	PASS
Band2	10MHz	18650	QPSK	5	0	Low	22.40	PASS
Band2	10MHz	18900	QPSK	1	0	Low	23.14	PASS
Band2	10MHz	18900	QPSK	5	0	Low	21.98	PASS

Band2	10MHz	19150	QPSK	1	5	High	22.65	PASS
Band2	10MHz	19150	QPSK	5	1	High	21.70	PASS
Band2	10MHz	18650	16QAM	1	0	Low	23.47	PASS
Band2	10MHz	18650	16QAM	5	0	Low	22.38	PASS
Band2	10MHz	18900	16QAM	1	0	Low	23.20	PASS
Band2	10MHz	18900	16QAM	5	0	Low	22.01	PASS
Band2	10MHz	19150	16QAM	1	5	High	22.69	PASS
Band2	10MHz	19150	16QAM	5	1	High	21.78	PASS
Band2	15MHz	18675	QPSK	1	0	Low	23.37	PASS
Band2	15MHz	18675	QPSK	6	0	Low	23.24	PASS
Band2	15MHz	18900	QPSK	1	0	Low	23.08	PASS
Band2	15MHz	18900	QPSK	6	0	Low	23.06	PASS
Band2	15MHz	19125	QPSK	1	5	High	22.66	PASS
Band2	15MHz	19125	QPSK	6	0	High	22.76	PASS
Band2	15MHz	18675	16QAM	1	0	Low	23.52	PASS
Band2	15MHz	18675	16QAM	6	0	Low	23.24	PASS
Band2	15MHz	18900	16QAM	1	0	Low	23.20	PASS
Band2	15MHz	18900	16QAM	6	0	Low	23.05	PASS
Band2	15MHz	19125	16QAM	1	5	High	22.77	PASS
Band2	15MHz	19125	16QAM	6	0	High	22.76	PASS
Band2	20MHz	18700	QPSK	1	0	Low	23.37	PASS
Band2	20MHz	18700	QPSK	6	0	Low	23.37	PASS
Band2	20MHz	18900	QPSK	1	0	Low	23.13	PASS
Band2	20MHz	18900	QPSK	6	0	Low	22.98	PASS
Band2	20MHz	19100	QPSK	1	5	High	22.70	PASS
Band2	20MHz	19100	QPSK	6	0	High	22.80	PASS
Band2	20MHz	18700	16QAM	1	0	Low	23.45	PASS
Band2	20MHz	18700	16QAM	6	0	Low	23.36	PASS
Band2	20MHz	18900	16QAM	1	0	Low	23.21	PASS
Band2	20MHz	18900	16QAM	6	0	Low	22.98	PASS
Band2	20MHz	19100	16QAM	1	5	High	22.75	PASS
Band2	20MHz	19100	16QAM	6	0	High	22.79	PASS

Note: The highest antenna gain permitted including cable loss, must satisfy both EIRP (ERP) limit and RF exposure requirements.

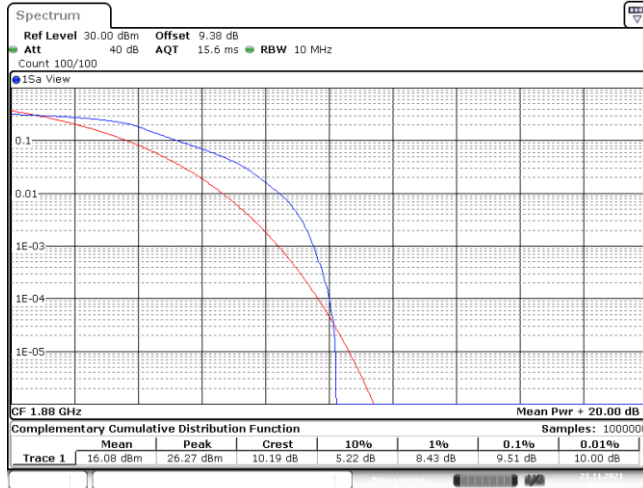
APPENDIX A.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dB)	Limit (dB)	Verdict
Band2	1.4MHz	18900	QPSK	6	0	Low	9.51	<=13	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	9.83	<=13	PASS
Band2	3MHz	18900	QPSK	6	0	Low	10.93	<=13	PASS
Band2	3MHz	18900	16QAM	6	0	Low	9.54	<=13	PASS
Band2	5MHz	18900	QPSK	6	0	Low	12.09	<=13	PASS
Band2	5MHz	18900	16QAM	6	0	Low	11.04	<=13	PASS
Band2	10MHz	18900	QPSK	6	0	Low	11.54	<=13	PASS
Band2	10MHz	18900	16QAM	6	0	Low	9.25	<=13	PASS
Band2	15MHz	18900	QPSK	6	0	Low	8.96	<=13	PASS
Band2	15MHz	18900	16QAM	6	0	Low	8.96	<=13	PASS
Band2	20MHz	18900	QPSK	6	0	Low	9.97	<=13	PASS
Band2	20MHz	18900	16QAM	6	0	Low	9.01	<=13	PASS

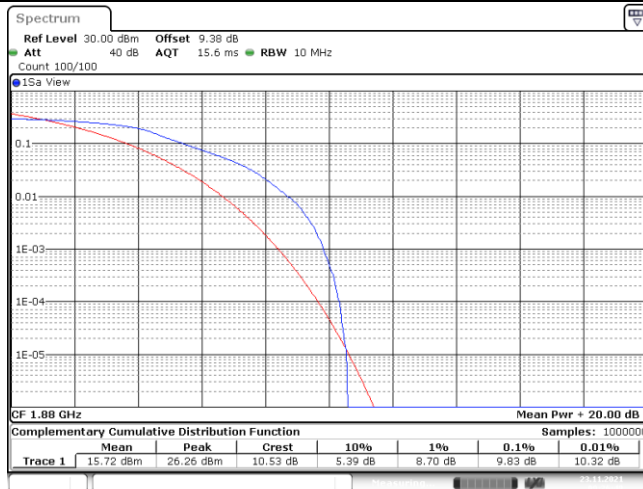
Test Graphs

Band2-1.4MHz-QPSK-18900-6-0-Low-9.51-<=13-PASS



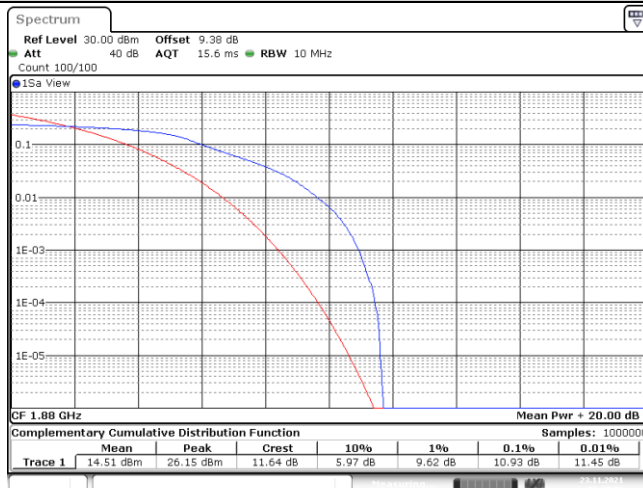
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Band2-1.4MHz-16QAM-18900-6-0-Low-9.83-<=13-PASS



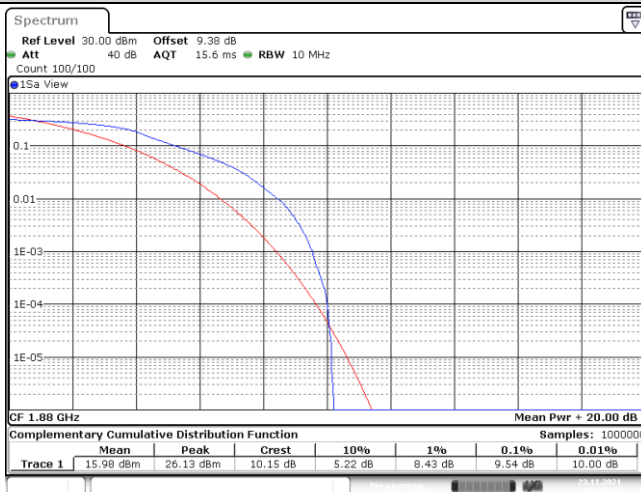
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Band2-3MHz-QPSK-18900-6-0-Low-10.93-<=13-PASS



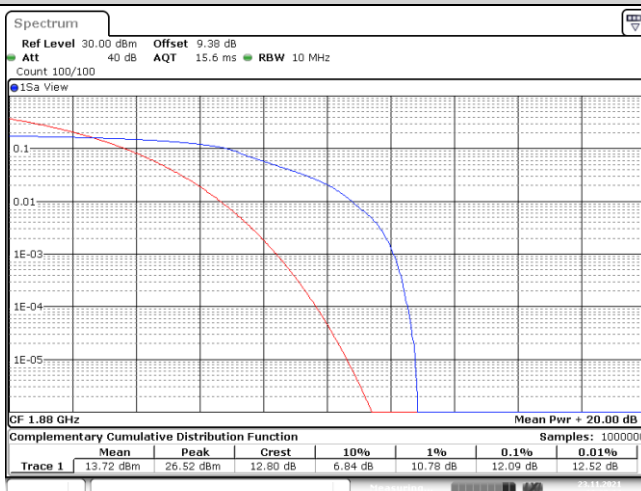
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Band2-3MHz-16QAM-18900-6-0-Low-9.54-<=13-PASS



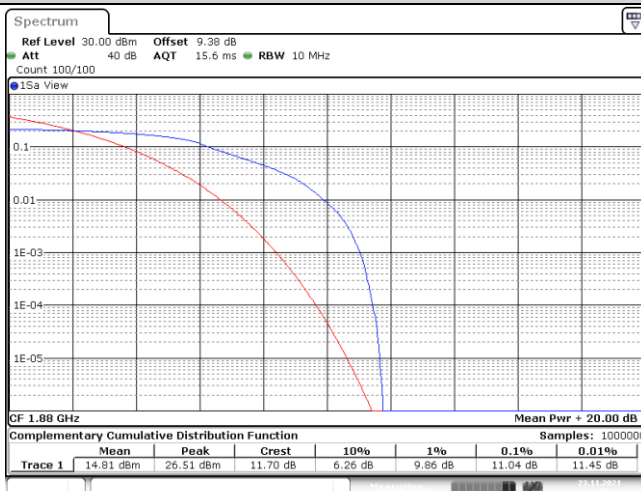
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Band2-5MHz-QPSK-18900-6-0-Low-12.09-<=13-PASS



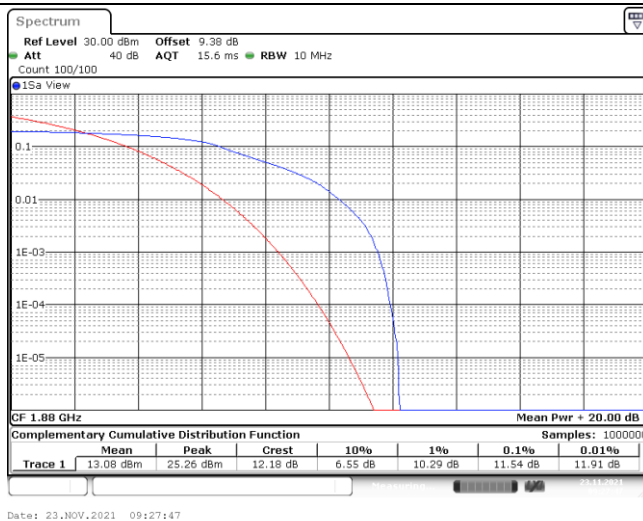
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Band2-5MHz-16QAM-18900-6-0-Low-11.04-<=13-PASS



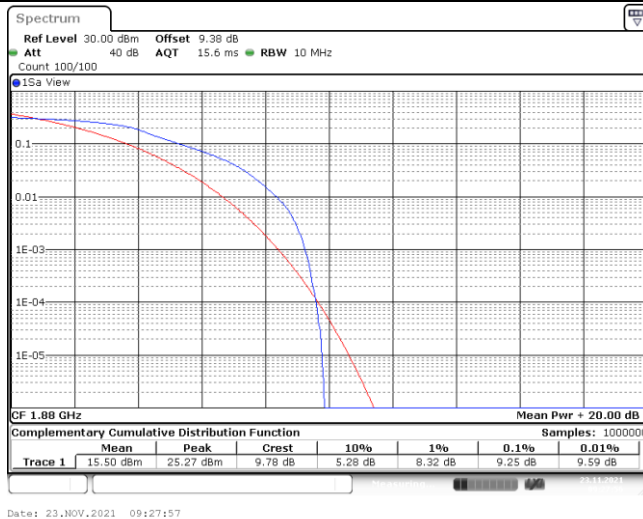
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Band2-10MHz-QPSK-18900-6-0-Low-11.54-<=13-PASS



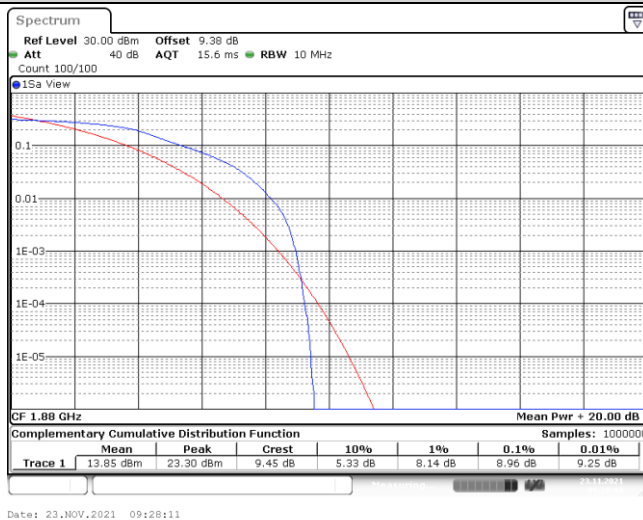
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Band2-10MHz-16QAM-18900-6-0-Low-9.25-<=13-PASS



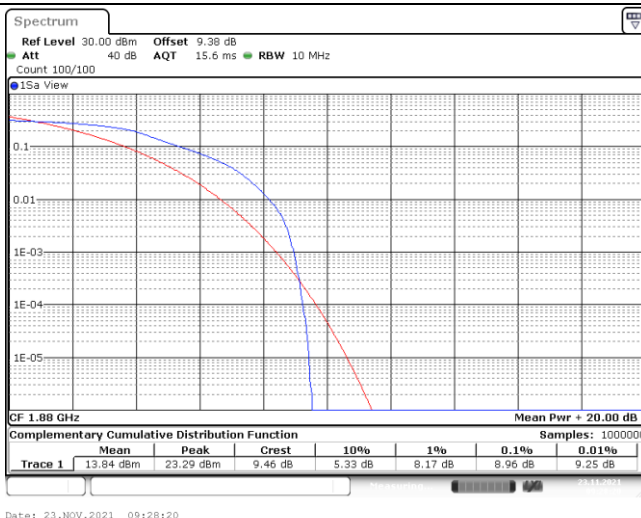
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Band2-15MHz-QPSK-18900-6-0-Low-8.96-<=13-PASS

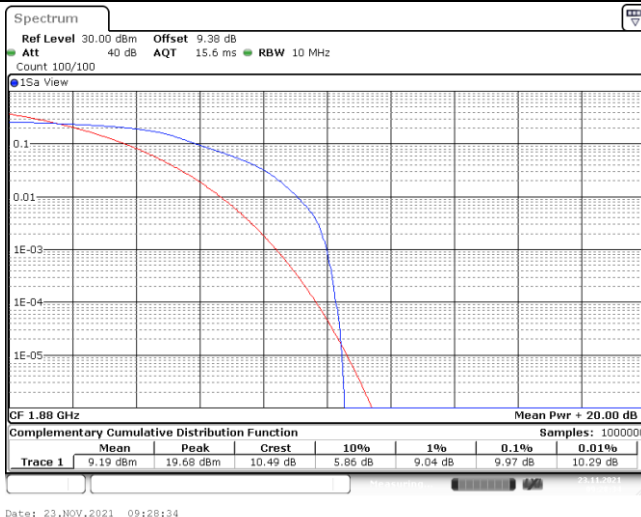


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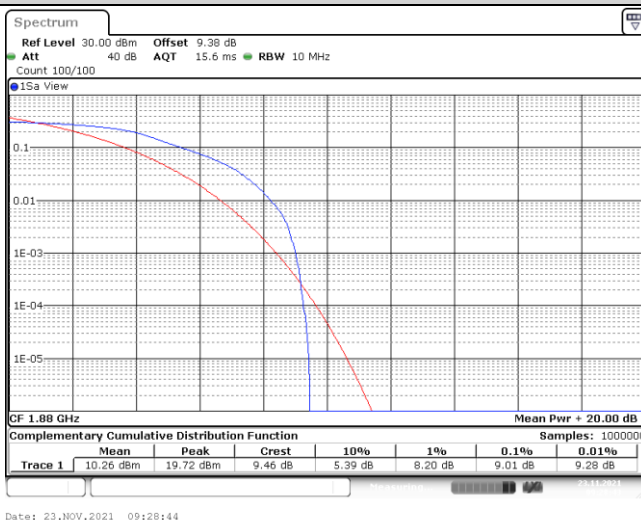
Band2-15MHz-16QAM-18900-6-0-Low-8.96-<=13-PASS



Band2-20MHz-QPSK-18900-6-0-Low-9.97-<=13-PASS



Band2-20MHz-16QAM-18900-6-0-Low-9.01-<=13-PASS



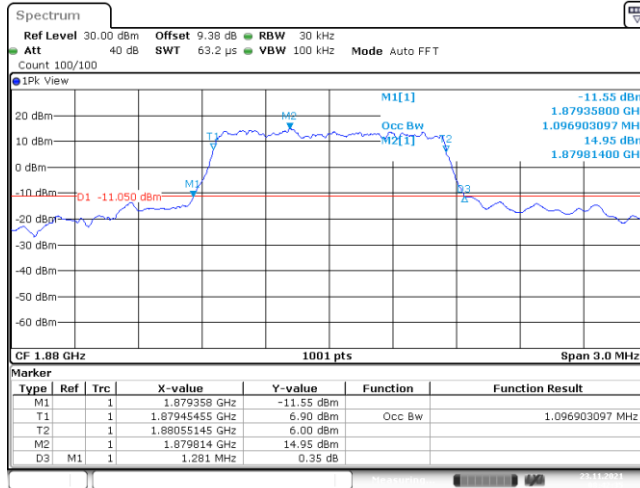
APPENDIX A.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	18900	QPSK	6	0	Low	1.097	1.281	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	1.097	1.281	PASS
Band2	3MHz	18900	QPSK	6	0	Low	1.097	1.290	PASS
Band2	3MHz	18900	16QAM	6	0	Low	1.097	1.290	PASS
Band2	5MHz	18900	QPSK	6	0	Low	1.119	1.300	PASS
Band2	5MHz	18900	16QAM	6	0	Low	1.109	1.320	PASS
Band2	10MHz	18900	QPSK	6	0	Low	1.119	1.320	PASS
Band2	10MHz	18900	16QAM	6	0	Low	1.119	1.320	PASS
Band2	15MHz	18900	QPSK	6	0	Low	1.139	1.350	PASS
Band2	15MHz	18900	16QAM	6	0	Low	1.109	1.350	PASS
Band2	20MHz	18900	QPSK	6	0	Low	1.119	1.360	PASS
Band2	20MHz	18900	16QAM	6	0	Low	1.119	1.360	PASS

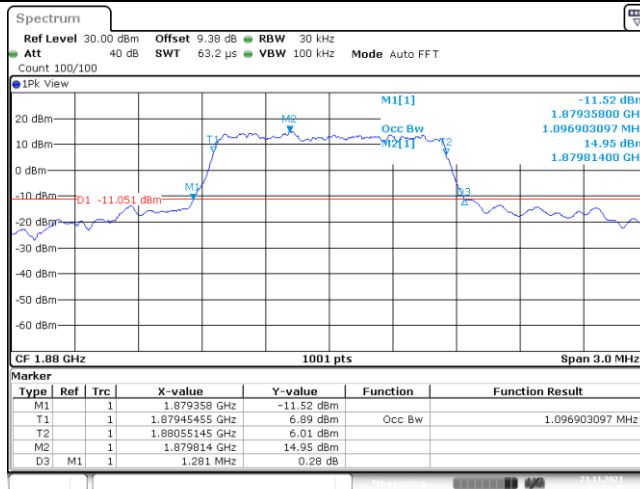
Test Graphs

Band2-1.4MHz-QPSK-18900-6-0-Low-1.097-1.281-PASS



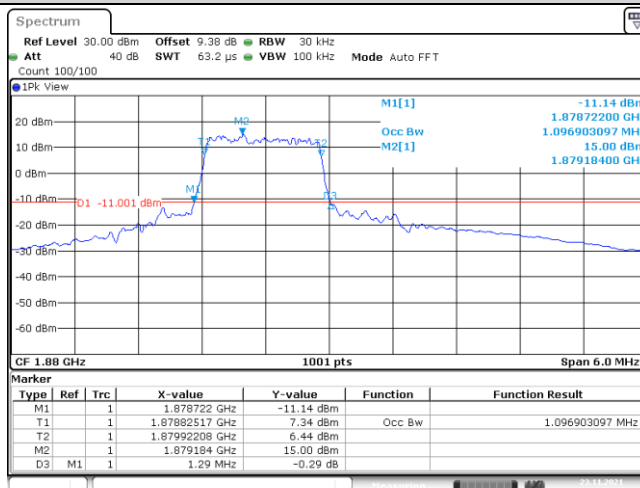
Date: 23.NOV.2021 08:42:36

Band2-1.4MHz-16QAM-18900-6-0-Low-1.097-1.281-PASS



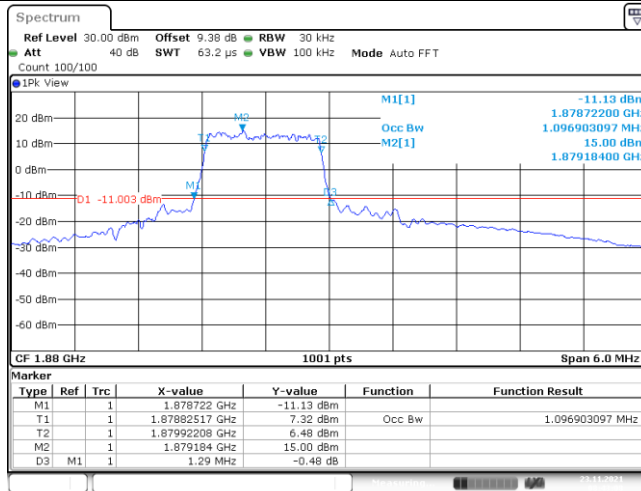
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Band2-3MHz-QPSK-18900-6-0-Low-1.097-1.290-PASS



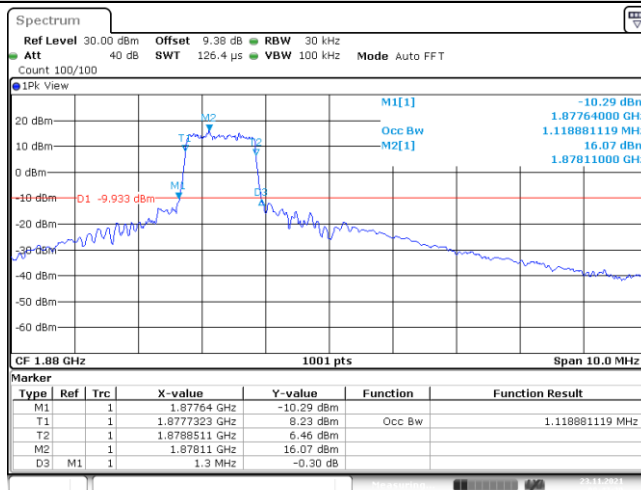
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Band2-3MHz-16QAM-18900-6-0-Low-1.097-1.290-PASS



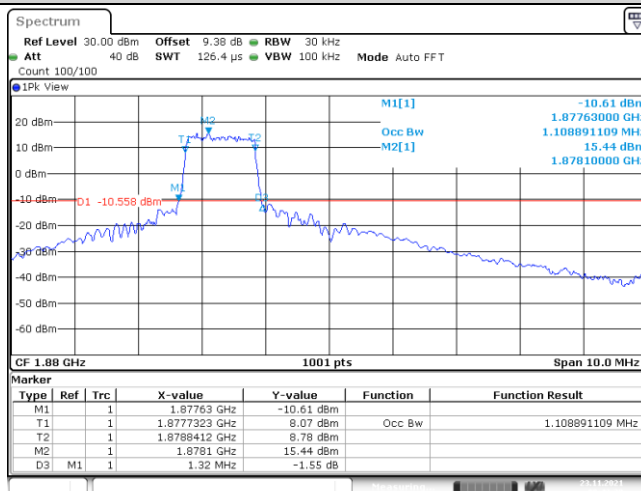
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Band2-5MHz-QPSK-18900-6-0-Low-1.119-1.300-PASS



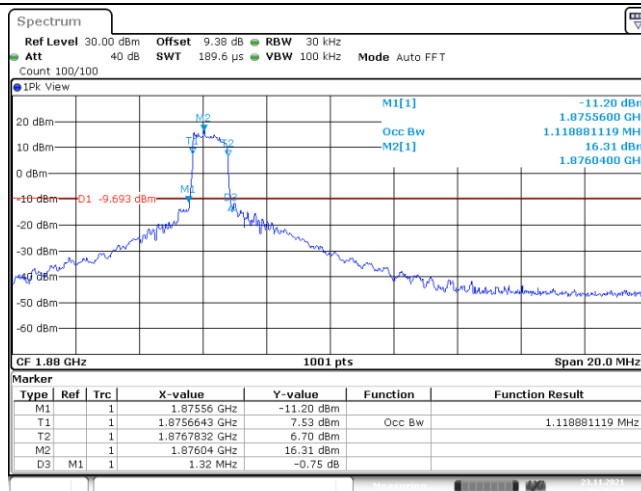
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Band2-5MHz-16QAM-18900-6-0-Low-1.109-1.320-PASS



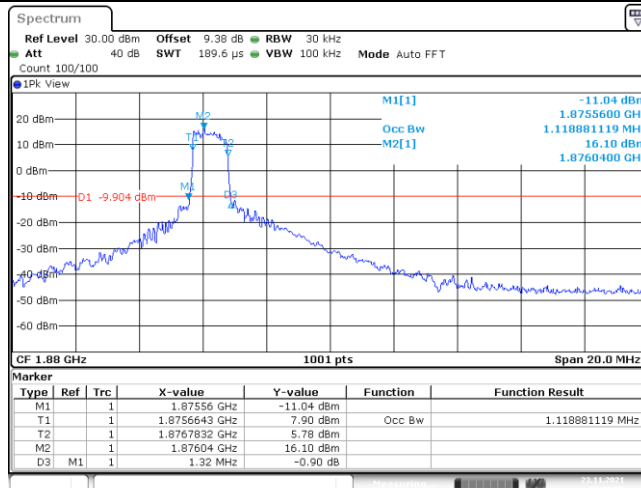
Date: 23.NOV.2021 08:43:30

Band2-10MHz-QPSK-18900-6-0-Low-1.119-1.320-PASS



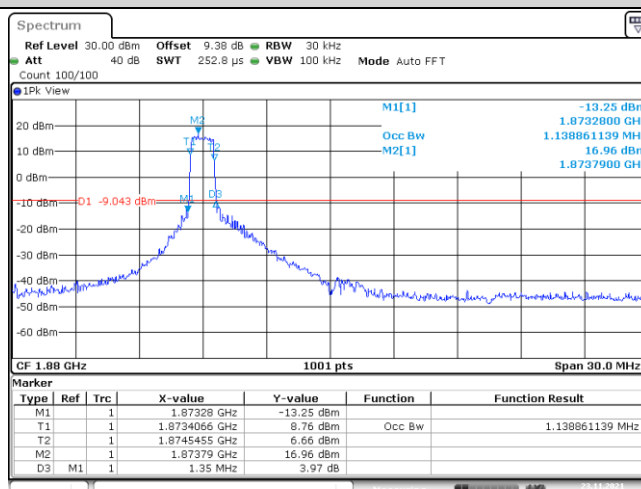
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Band2-10MHz-16QAM-18900-6-0-Low-1.119-1.320-PASS



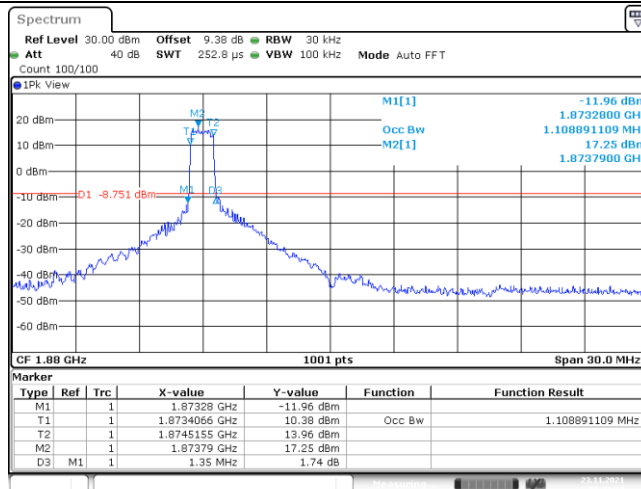
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Band2-15MHz-QPSK-18900-6-0-Low-1.139-1.350-PASS

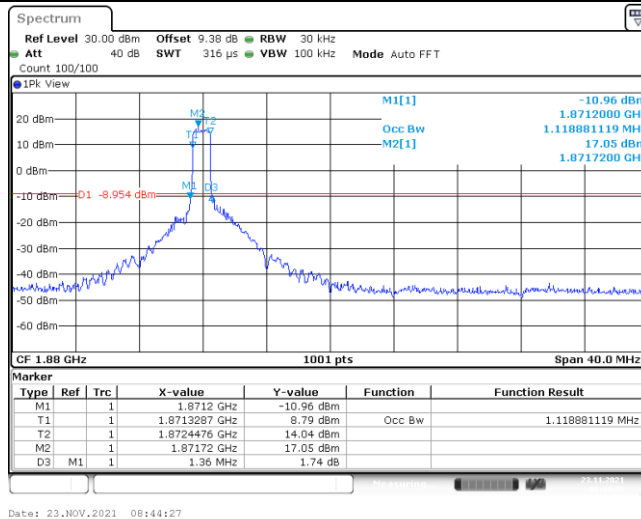


Date: 23.NOV.2021 08:44:04

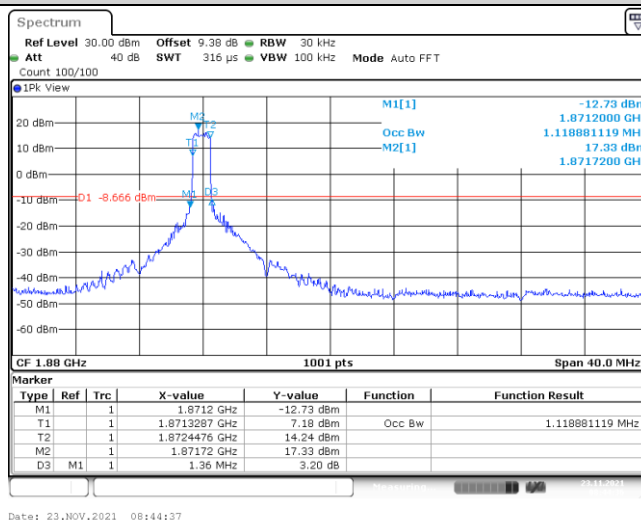
Band2-15MHz-16QAM-18900-6-0-Low-1.109-1.350-PASS



Band2-20MHz-QPSK-18900-6-0-Low-1.119-1.360-PASS



Band2-20MHz-16QAM-18900-6-0-Low-1.119-1.360-PASS

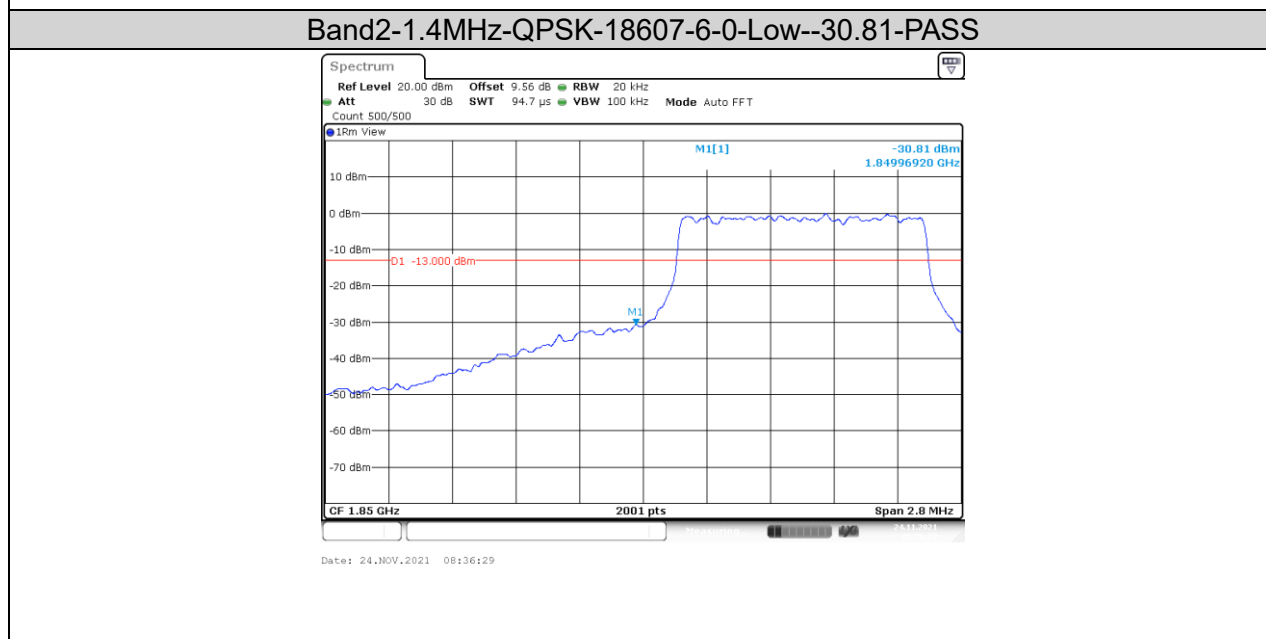
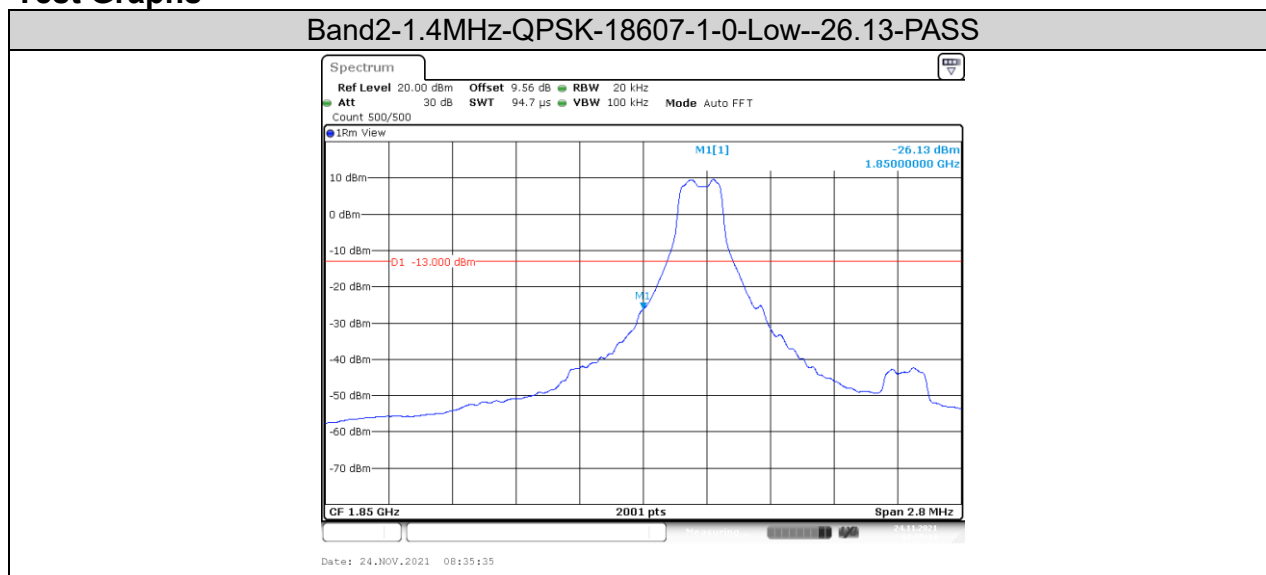


APPENDIX A.4: BAND EDGE FOR M1

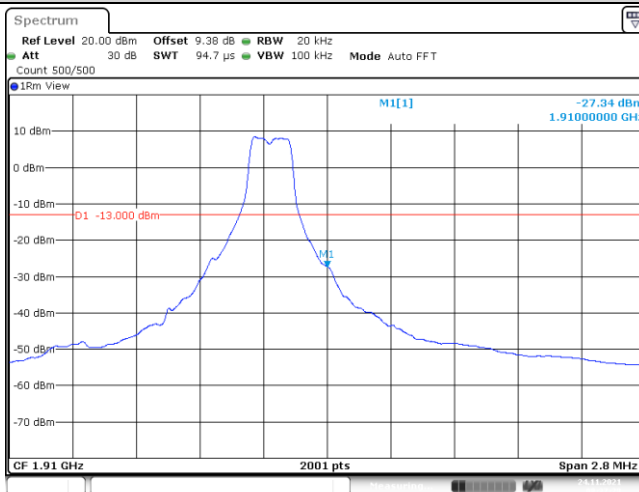
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	-26.13	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	-30.81	PASS
Band2	1.4MHz	19193	QPSK	1	5	Low	-27.34	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	-32.49	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	-29.53	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	-30.95	PASS
Band2	1.4MHz	19193	16QAM	1	5	Low	-29.25	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	-32.10	PASS

Test Graphs

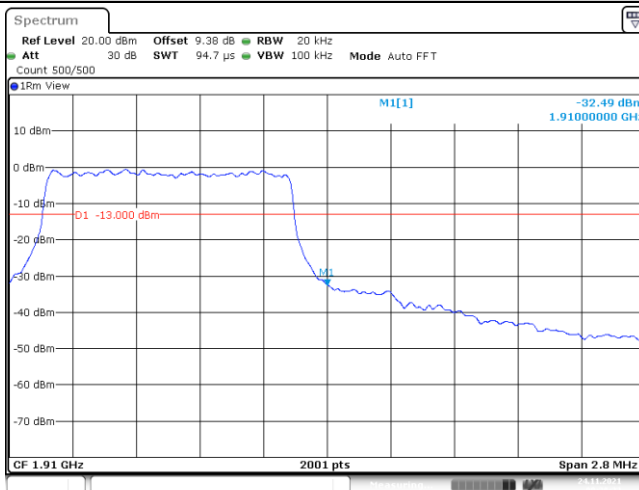


Band2-1.4MHz-QPSK-19193-1-5-Low--27.34-PASS



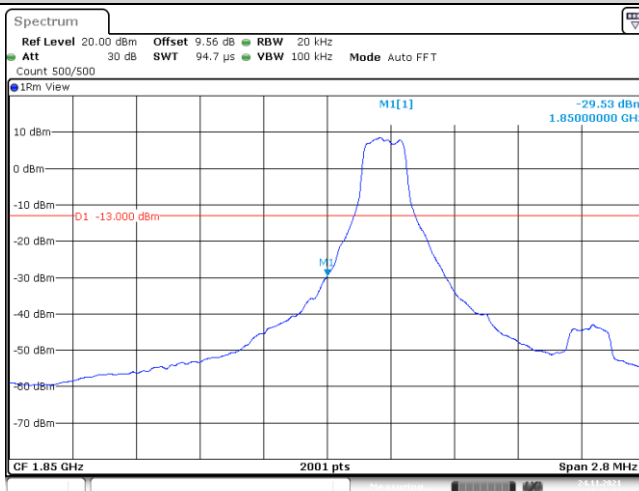
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Band2-1.4MHz-QPSK-19193-6-0-Low--32.49-PASS



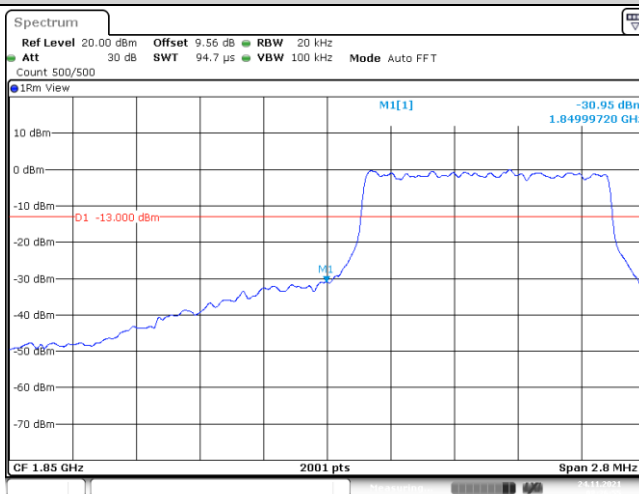
Date: 24.NOV.2021 08:38:23

Band2-1.4MHz-16QAM-18607-1-0-Low--29.53-PASS



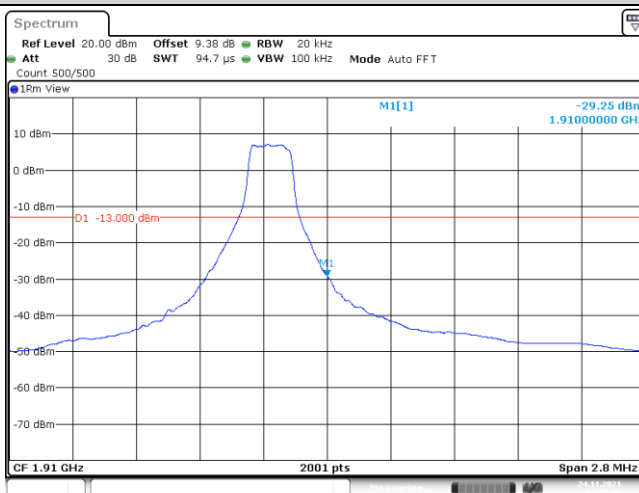
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Band2-1.4MHz-16QAM-18607-6-0-Low--30.95-PASS



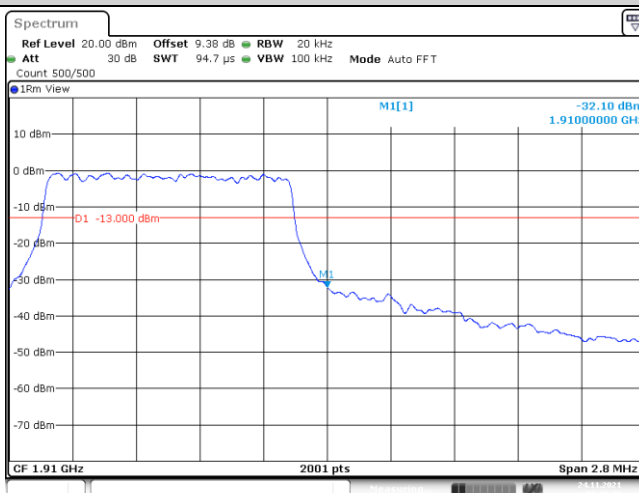
Date: 24.NOV.2021 08:36:55

Band2-1.4MHz-16QAM-19193-1-5-Low--29.25-PASS



Date: 24.NOV.2021 08:37:56

Band2-1.4MHz-16QAM-19193-6-0-Low--32.10-PASS



Date: 24.NOV.2021 08:38:50

APPENDIX A.5: CONDUCTED SPURIOUS EMISSION FOR M1

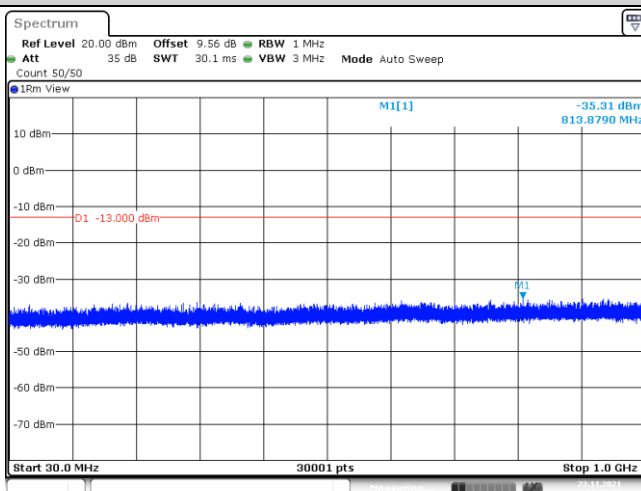
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band2	1.4MHz	18607	QPSK	1	0	Low	30	1000	-35.31	PASS
Band2	1.4MHz	18607	QPSK	1	0	Low	1000	5000	-34.01	PASS
Band2	1.4MHz	18607	QPSK	1	0	Low	5000	12000	-51.68	PASS
Band2	1.4MHz	18607	QPSK	1	0	Low	12000	26500	-49.47	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	30	1000	-33.95	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	1000	5000	-36.98	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	5000	12000	-53.14	PASS
Band2	1.4MHz	18607	QPSK	6	0	Low	12000	26500	-49.48	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	30	1000	-35.29	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	1000	5000	-32.73	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	5000	12000	-51.46	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	12000	26500	-49.73	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	30	1000	-35.39	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	1000	5000	-35.44	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	5000	12000	-53.34	PASS
Band2	1.4MHz	18900	QPSK	6	0	Low	12000	26500	-49.5	PASS
Band2	1.4MHz	19193	QPSK	1	5	Low	30	1000	-35.44	PASS
Band2	1.4MHz	19193	QPSK	1	5	Low	1000	5000	-31.57	PASS
Band2	1.4MHz	19193	QPSK	1	5	Low	5000	12000	-51.21	PASS
Band2	1.4MHz	19193	QPSK	1	5	Low	12000	26500	-49.59	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	30	1000	-34.51	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	1000	5000	-34.62	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	5000	12000	-53.37	PASS
Band2	1.4MHz	19193	QPSK	6	0	Low	12000	26500	-49.63	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	30	1000	-35.42	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	1000	5000	-34.53	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	5000	12000	-52.59	PASS
Band2	1.4MHz	18607	16QAM	1	0	Low	12000	26500	-49.41	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	30	1000	-35.34	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	1000	5000	-37.07	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	5000	12000	-53.13	PASS
Band2	1.4MHz	18607	16QAM	6	0	Low	12000	26500	-49.34	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	30	1000	-35.82	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	1000	5000	-33.35	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	5000	12000	-52.71	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	12000	26500	-49.58	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	30	1000	-35.46	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	1000	5000	-35.95	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	5000	12000	-53.53	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	12000	26500	-49.61	PASS
Band2	1.4MHz	19193	16QAM	1	5	Low	30	1000	-34.68	PASS

Band2	1.4MHz	19193	16QAM	1	5	Low	1000	5000	-32.14	PASS
Band2	1.4MHz	19193	16QAM	1	5	Low	5000	12000	-52.34	PASS
Band2	1.4MHz	19193	16QAM	1	5	Low	12000	26500	-49.67	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	30	1000	-35.69	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	1000	5000	-34.7	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	5000	12000	-53.47	PASS
Band2	1.4MHz	19193	16QAM	6	0	Low	12000	26500	-49.59	PASS

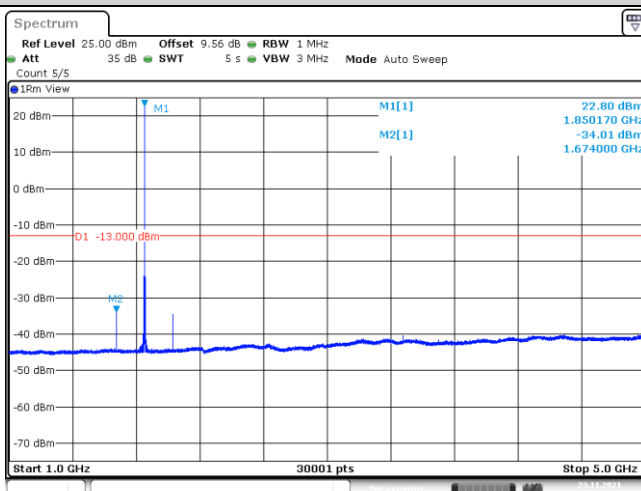
Test Graphs

Band2-1.4MHz-QPSK-18607-1-0-Low-30-1000--35.31-PASS



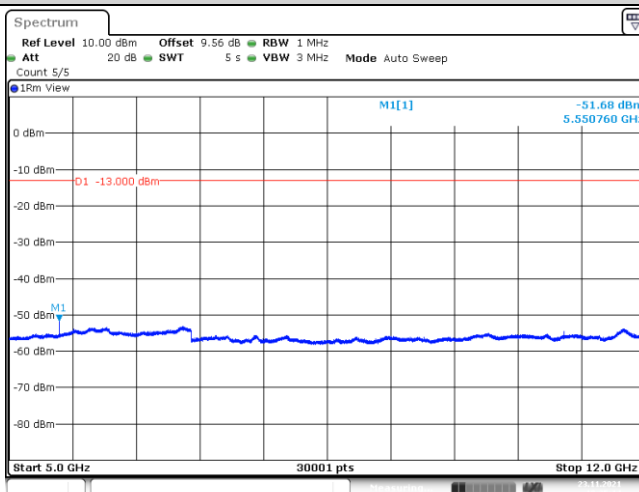
Date: 23.NOV.2021 10:34:03

Band2-1.4MHz-QPSK-18607-1-0-Low-1000-5000--34.01-PASS



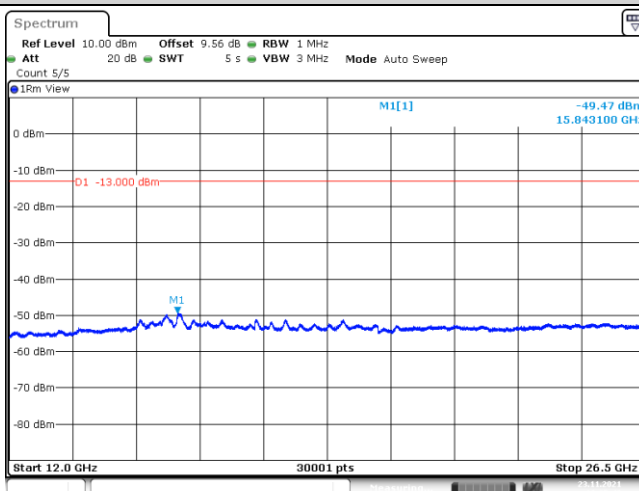
Date: 23.NOV.2021 10:34:39

Band2-1.4MHz-QPSK-18607-1-0-Low-5000-12000--51.68-PASS



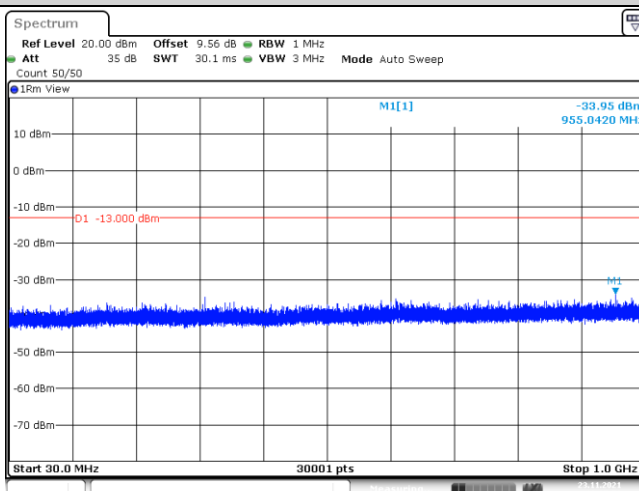
Date: 23.NOV.2021 10:35:13

Band2-1.4MHz-QPSK-18607-1-0-Low-12000-26500--49.47-PASS



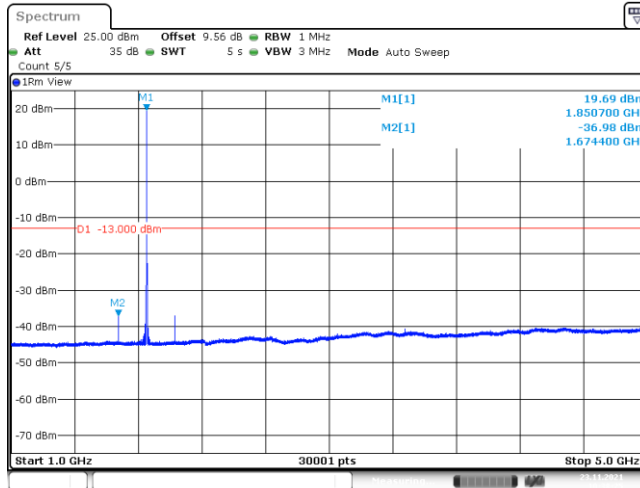
Date: 23.NOV.2021 10:35:48

Band2-1.4MHz-QPSK-18607-6-0-Low-30-1000--33.95-PASS

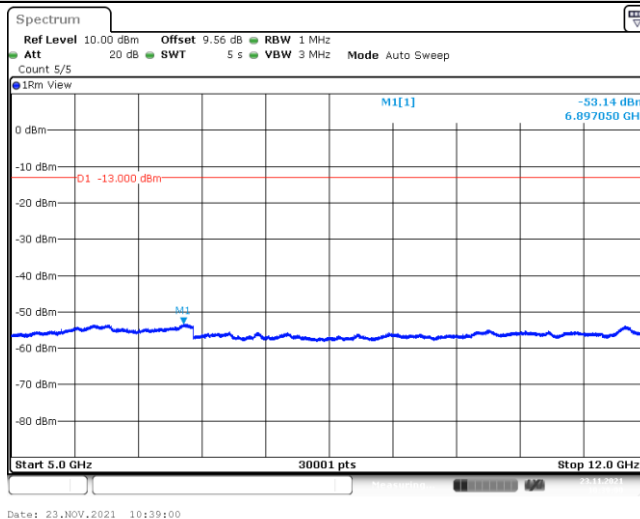


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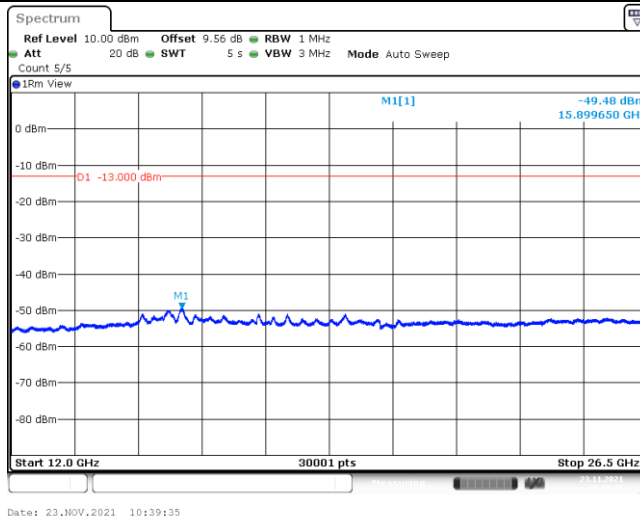
Band2-1.4MHz-QPSK-18607-6-0-Low-1000-5000--36.98-PASS



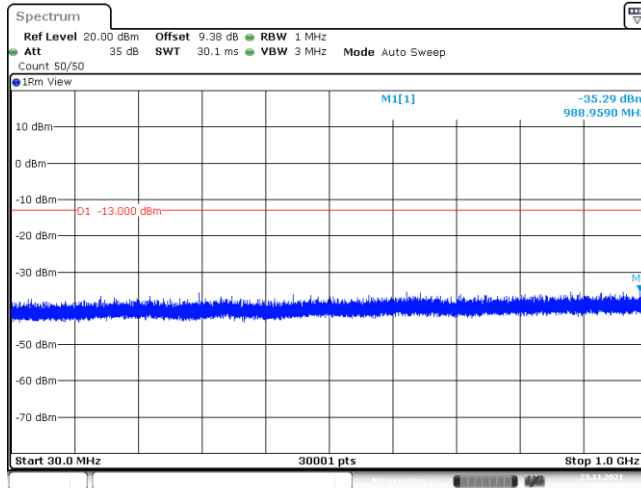
Band2-1.4MHz-QPSK-18607-6-0-Low-5000-12000--53.14-PASS



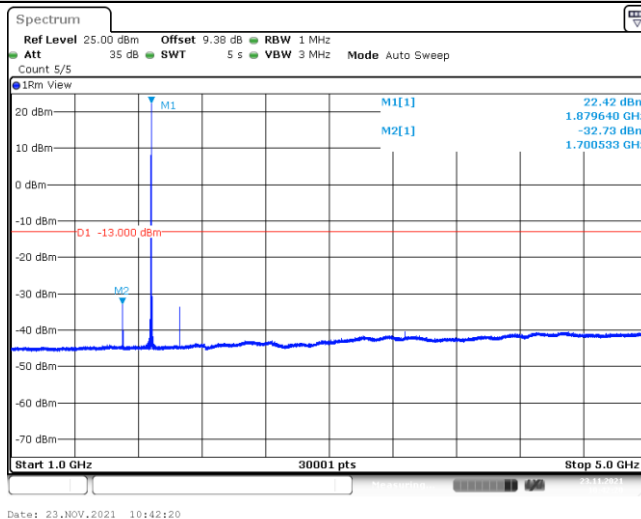
Band2-1.4MHz-QPSK-18607-6-0-Low-12000-26500--49.48-PASS



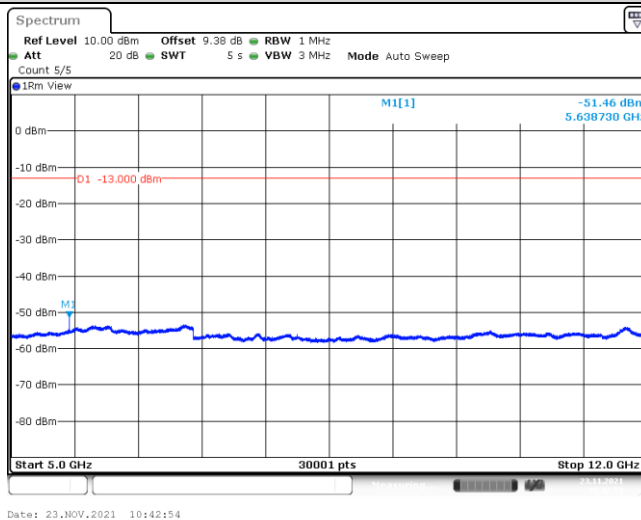
Band2-1.4MHz-QPSK-18900-1-0-Low-30-1000--35.29-PASS



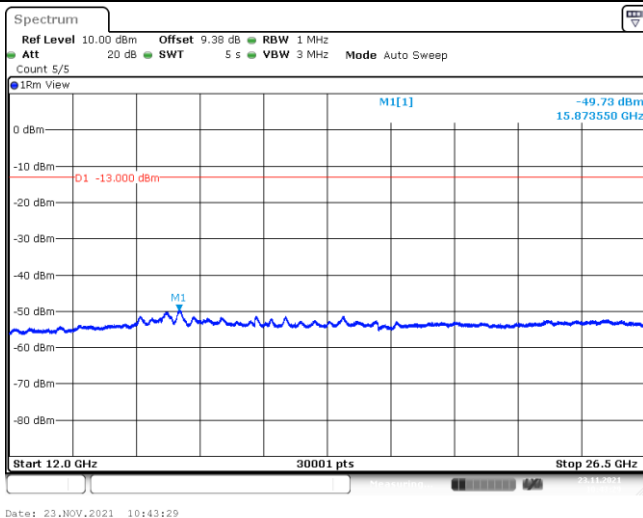
Band2-1.4MHz-QPSK-18900-1-0-Low-1000-5000--32.73-PASS



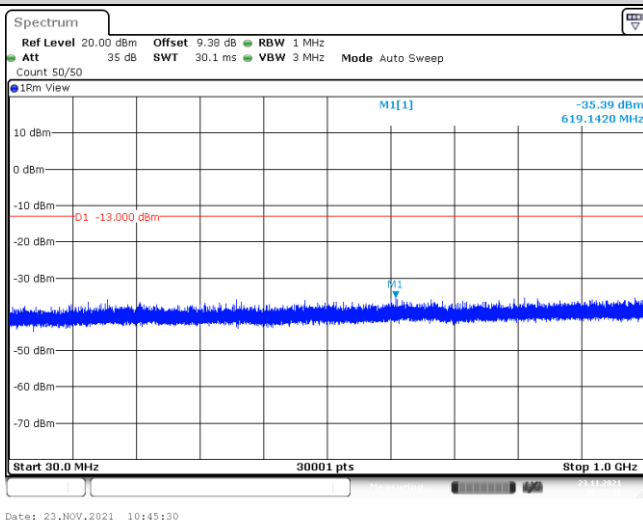
Band2-1.4MHz-QPSK-18900-1-0-Low-5000-12000--51.46-PASS



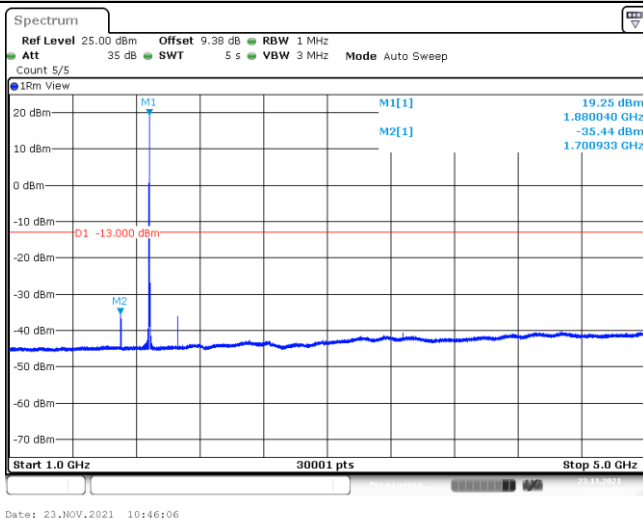
Band2-1.4MHz-QPSK-18900-1-0-Low-12000-26500--49.73-PASS



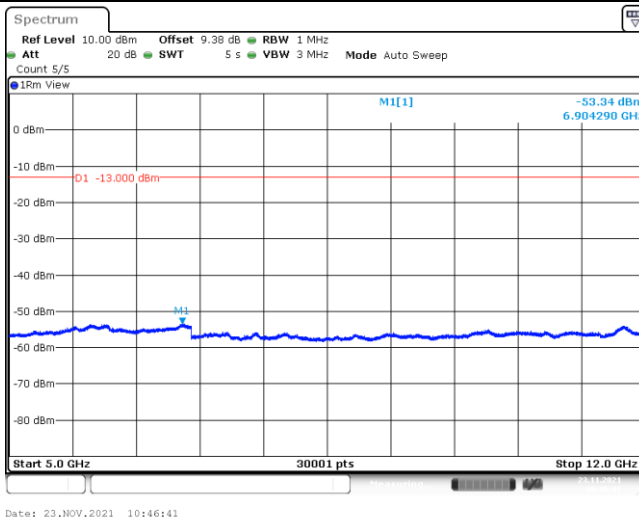
Band2-1.4MHz-QPSK-18900-6-0-Low-30-1000--35.39-PASS



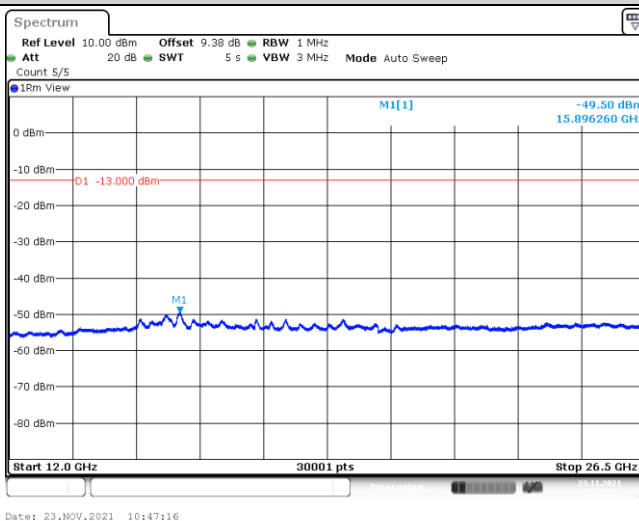
Band2-1.4MHz-QPSK-18900-6-0-Low-1000-5000--35.44-PASS



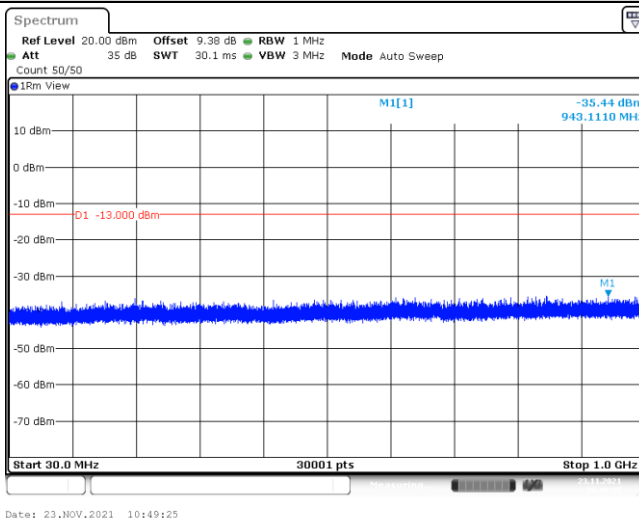
Band2-1.4MHz-QPSK-18900-6-0-Low-5000-12000--53.34-PASS



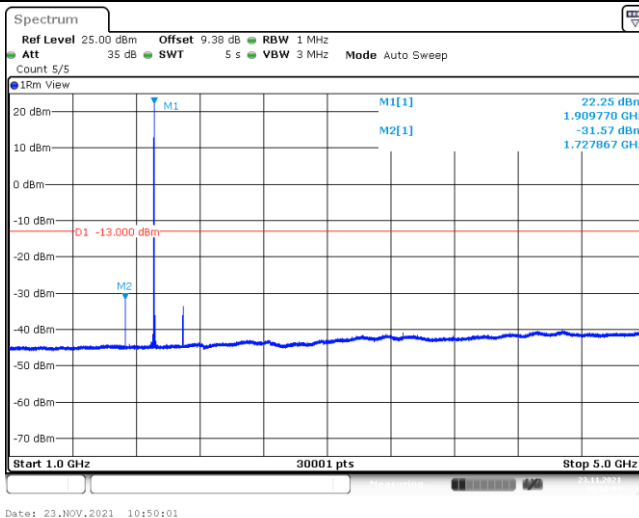
Band2-1.4MHz-QPSK-18900-6-0-Low-12000-26500--49.5-PASS



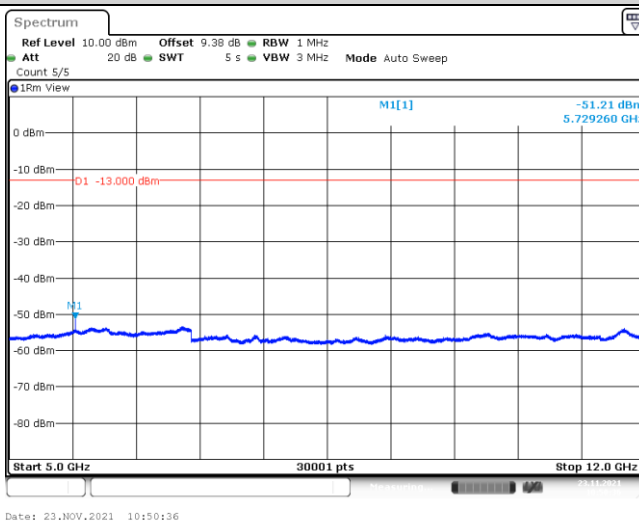
Band2-1.4MHz-QPSK-19193-1-5-Low-30-1000--35.44-PASS



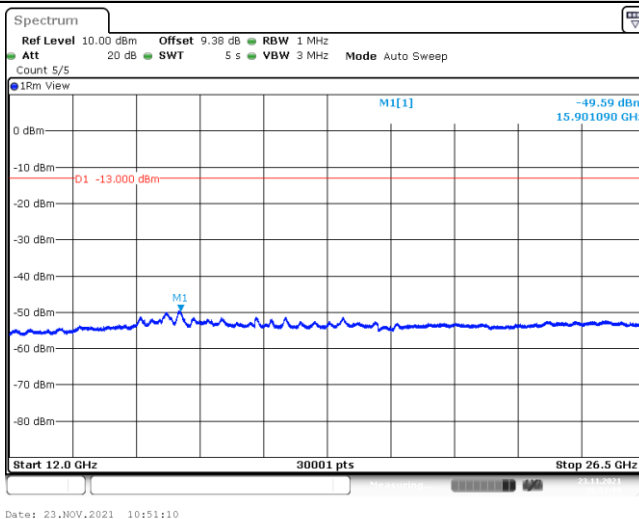
Band2-1.4MHz-QPSK-19193-1-5-Low-1000-5000--31.57-PASS



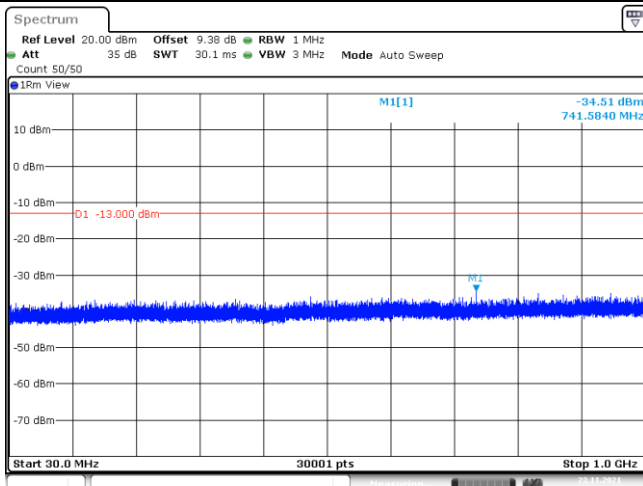
Band2-1.4MHz-QPSK-19193-1-5-Low-5000-12000--51.21-PASS



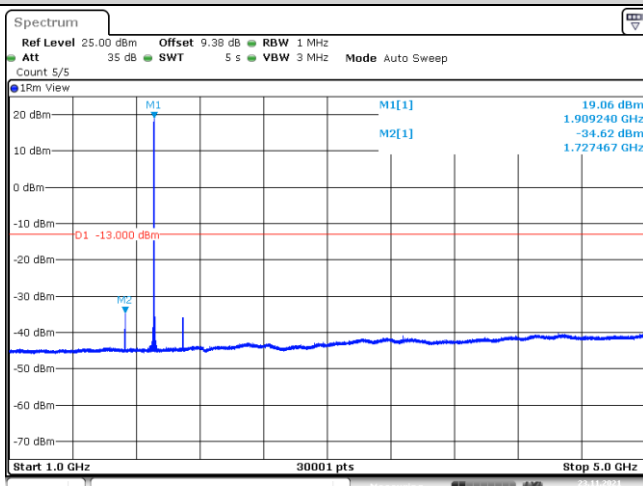
Band2-1.4MHz-QPSK-19193-1-5-Low-12000-26500--49.59-PASS



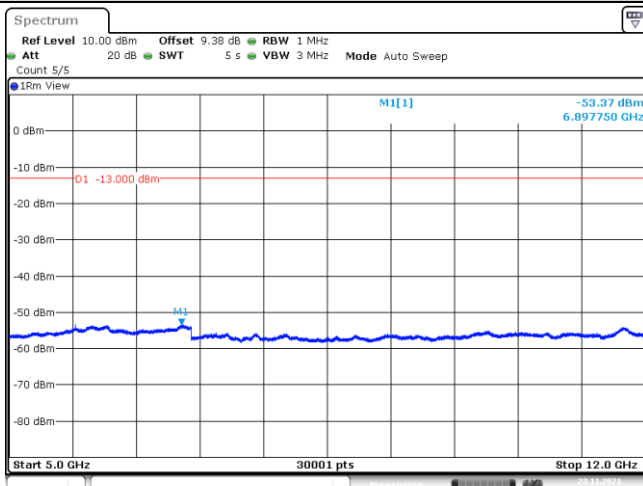
Band2-1.4MHz-QPSK-19193-6-0-Low-30-1000--34.51-PASS



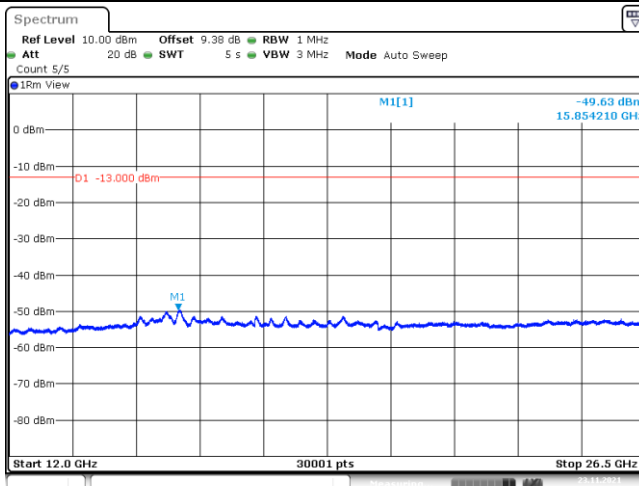
Band2-1.4MHz-QPSK-19193-6-0-Low-1000-5000--34.62-PASS



Band2-1.4MHz-QPSK-19193-6-0-Low-5000-12000--53.37-PASS

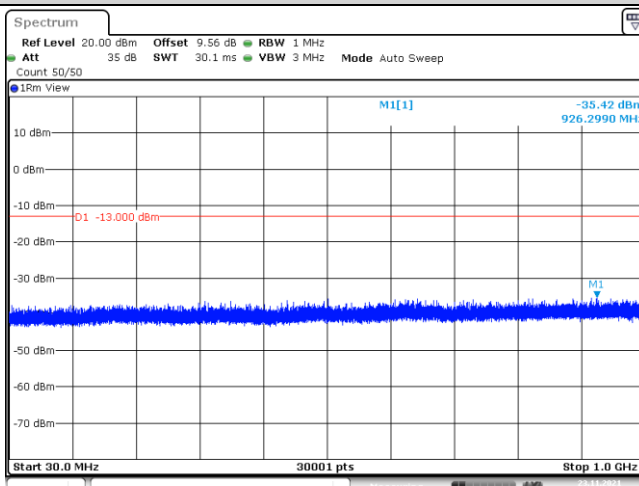


Band2-1.4MHz-QPSK-19193-6-0-Low-12000-26500--49.63-PASS



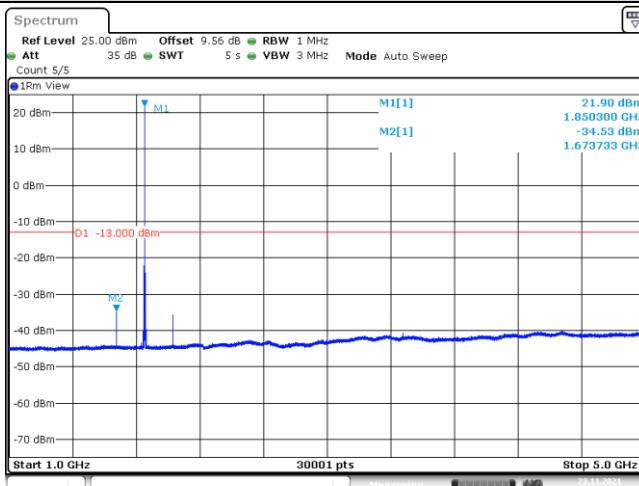
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Band2-1.4MHz-16QAM-18607-1-0-Low-30-1000--35.42-PASS



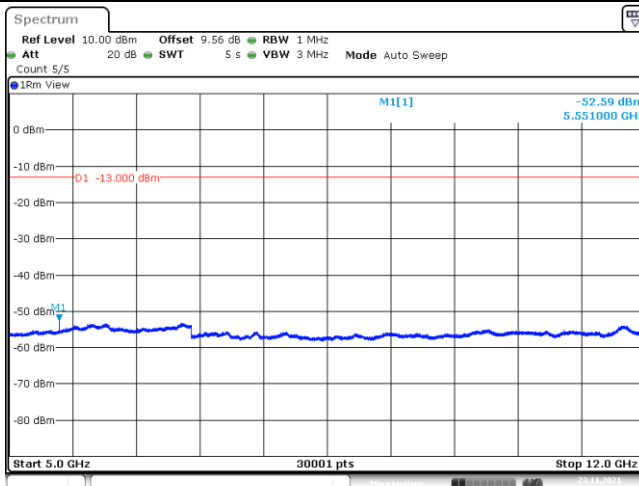
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Band2-1.4MHz-16QAM-18607-1-0-Low-1000-5000--34.53-PASS



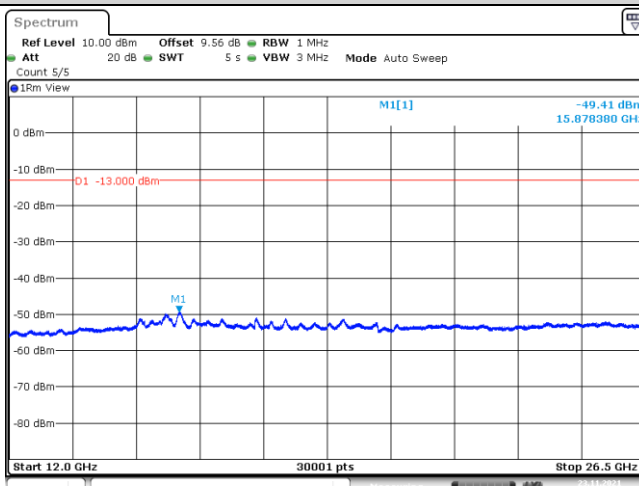
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Band2-1.4MHz-16QAM-18607-1-0-Low-5000-12000--52.59-PASS



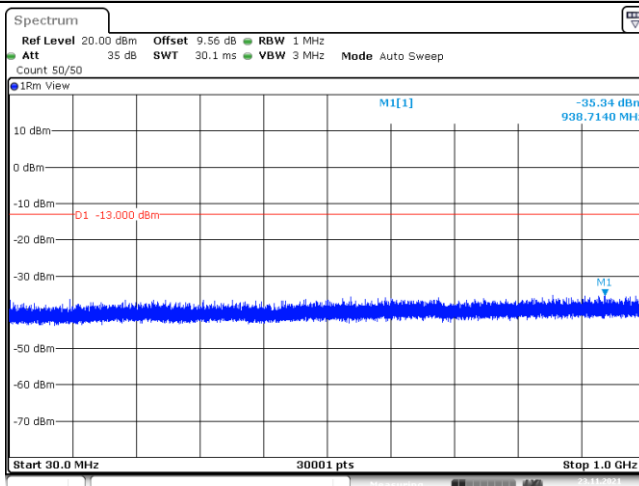
Date: 23.NOV.2021 10:37:07

Band2-1.4MHz-16QAM-18607-1-0-Low-12000-26500--49.41-PASS



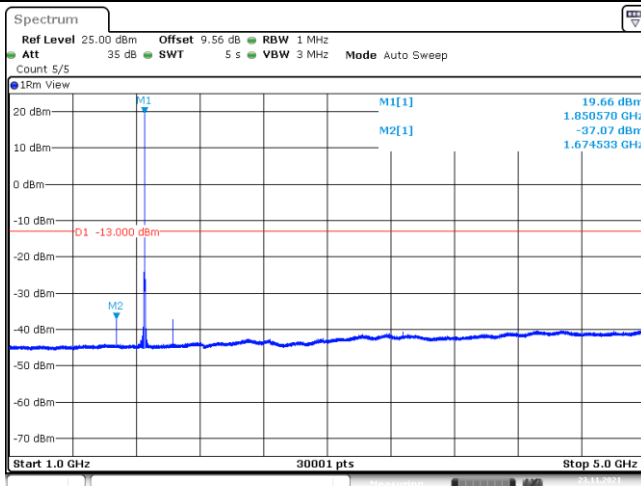
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Band2-1.4MHz-16QAM-18607-6-0-Low-30-1000--35.34-PASS

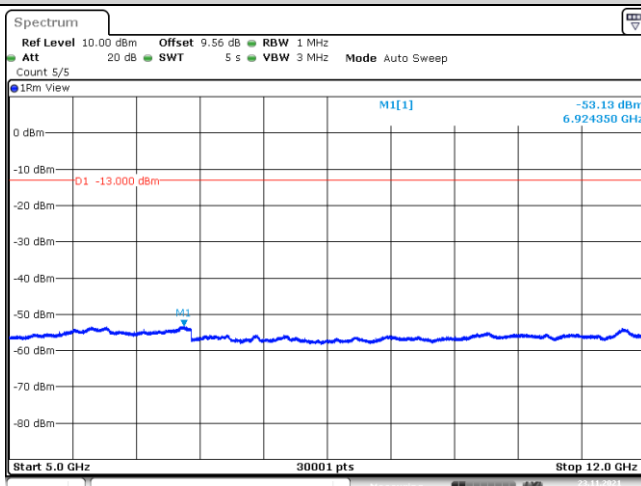


Date: 23.NOV.2021 10:39:43

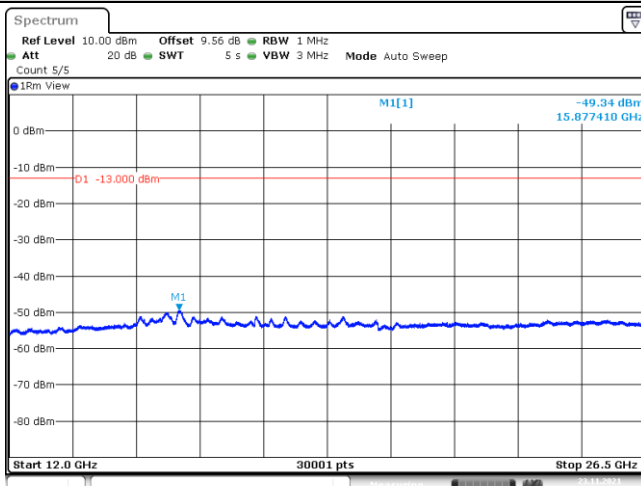
Band2-1.4MHz-16QAM-18607-6-0-Low-1000-5000--37.07-PASS



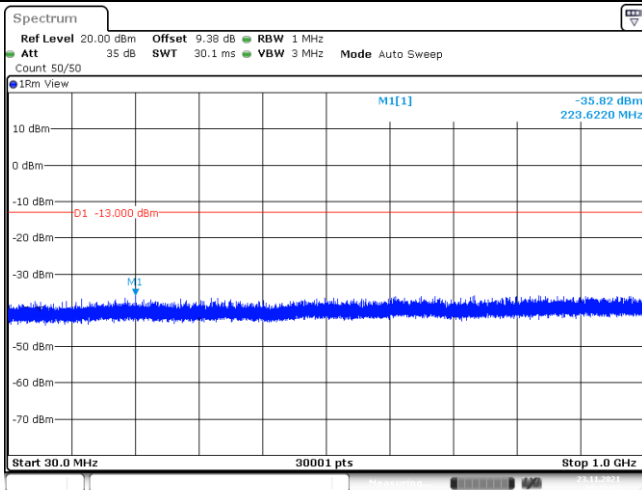
Band2-1.4MHz-16QAM-18607-6-0-Low-5000-12000--53.13-PASS



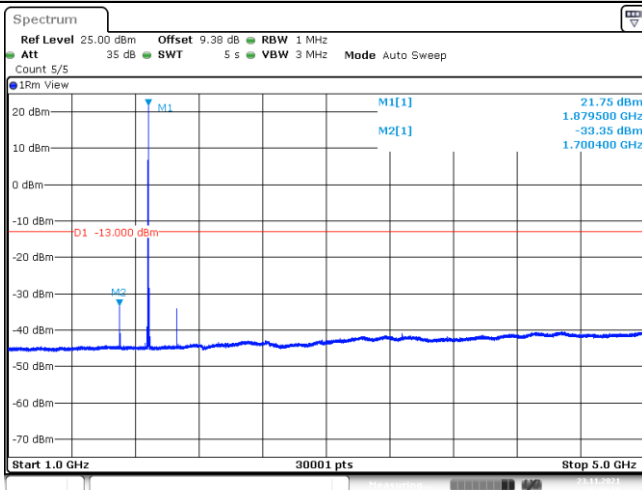
Band2-1.4MHz-16QAM-18607-6-0-Low-12000-26500--49.34-PASS



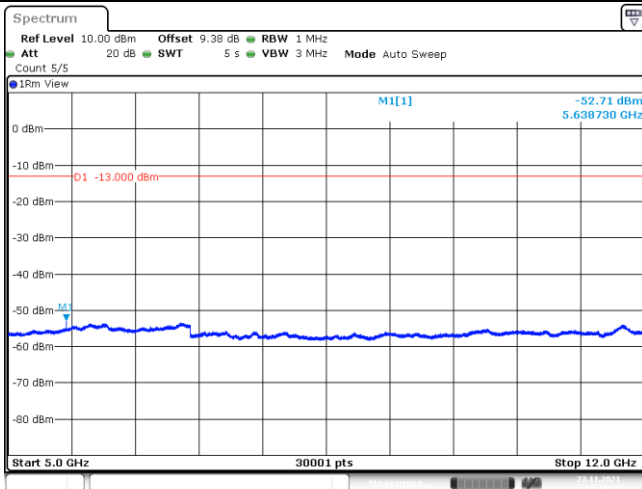
Band2-1.4MHz-16QAM-18900-1-0-Low-30-1000--35.82-PASS



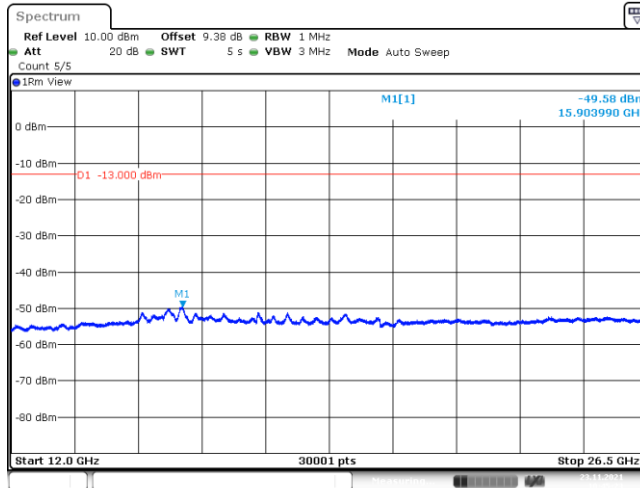
Band2-1.4MHz-16QAM-18900-1-0-Low-1000-5000--33.35-PASS



Band2-1.4MHz-16QAM-18900-1-0-Low-5000-12000--52.71-PASS

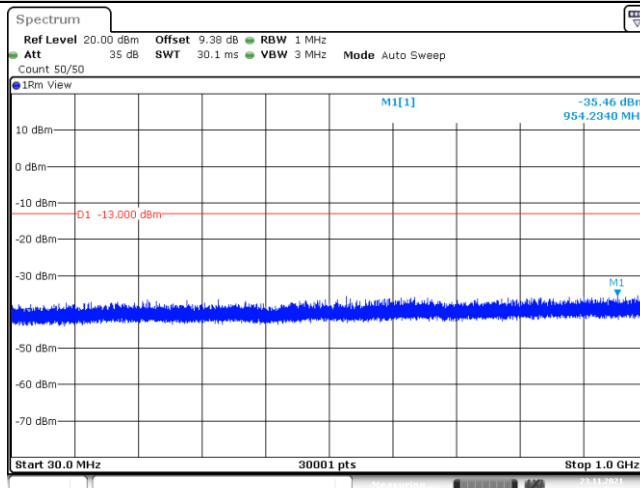


Band2-1.4MHz-16QAM-18900-1-0-Low-12000-26500--49.58-PASS



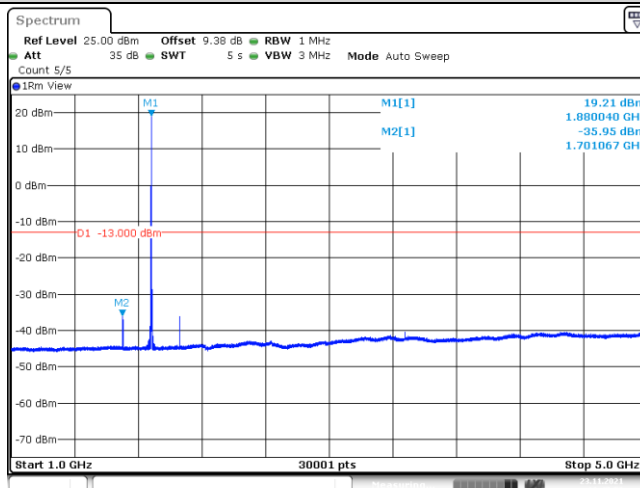
Date: 23.NOV.2021 10:45:22

Band2-1.4MHz-16QAM-18900-6-0-Low-30-1000--35.46-PASS



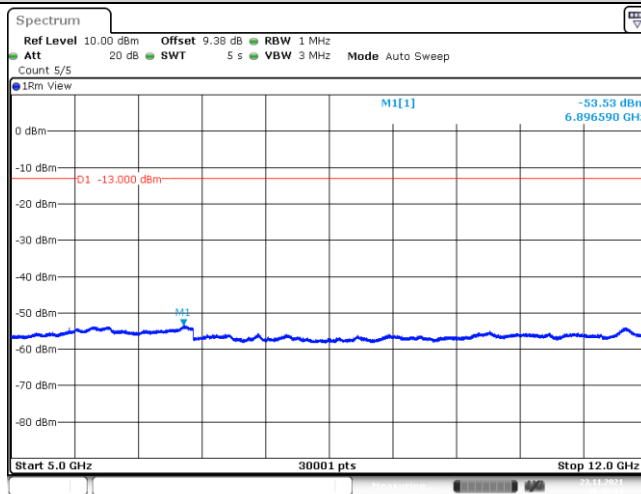
Date: 23.NOV.2021 10:47:24

Band2-1.4MHz-16QAM-18900-6-0-Low-1000-5000--35.95-PASS



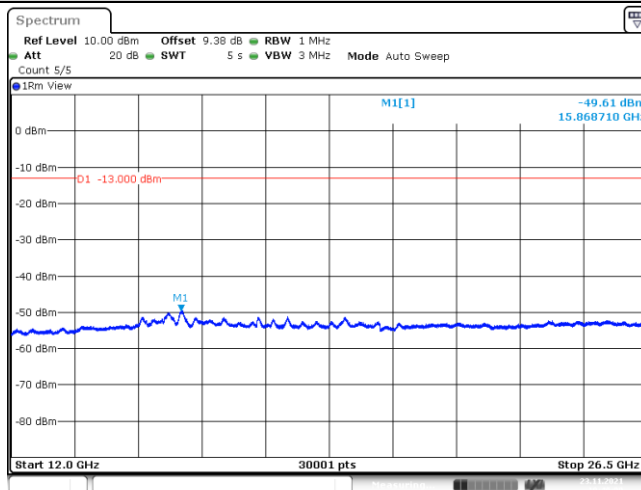
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Band2-1.4MHz-16QAM-18900-6-0-Low-5000-12000--53.53-PASS



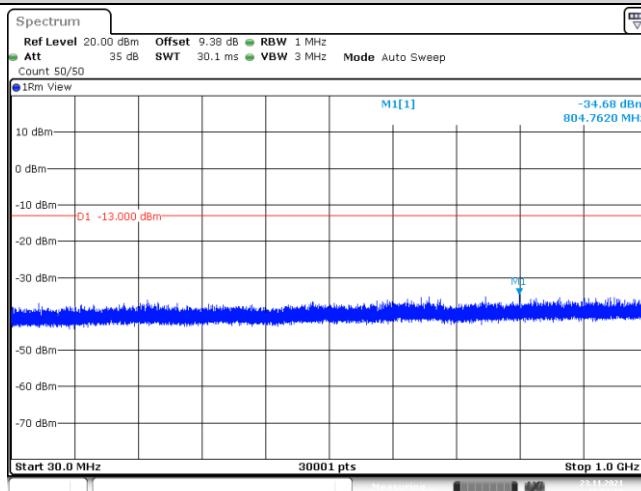
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Band2-1.4MHz-16QAM-18900-6-0-Low-12000-26500--49.61-PASS



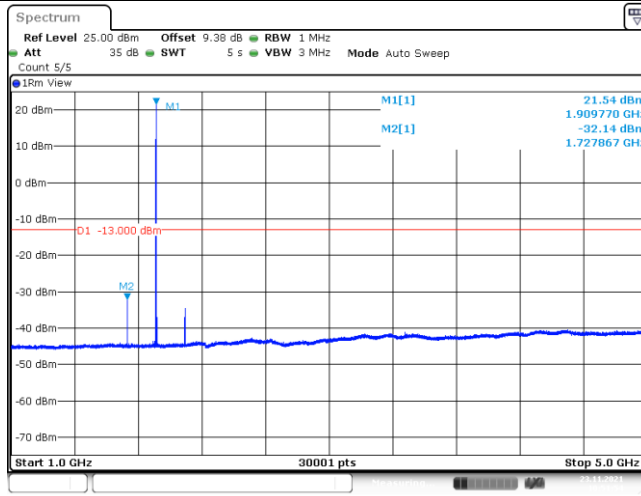
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Band2-1.4MHz-16QAM-19193-1-5-Low-30-1000--34.68-PASS



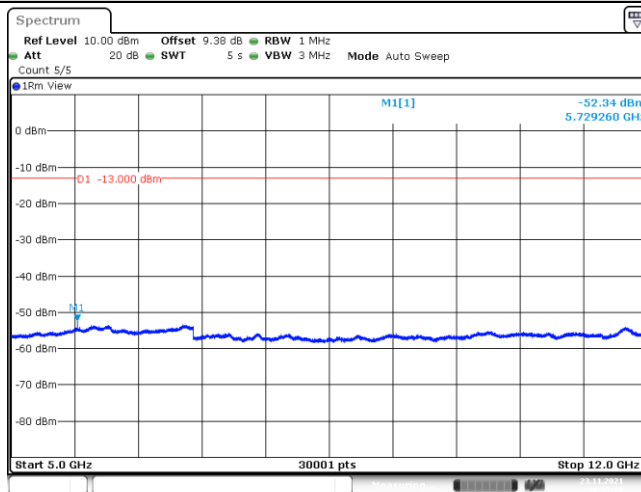
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Band2-1.4MHz-16QAM-19193-1-5-Low-1000-5000--32.14-PASS



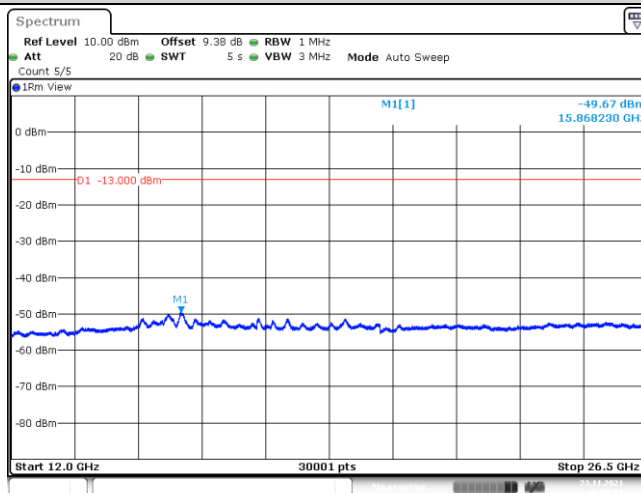
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Band2-1.4MHz-16QAM-19193-1-5-Low-5000-12000--52.34-PASS



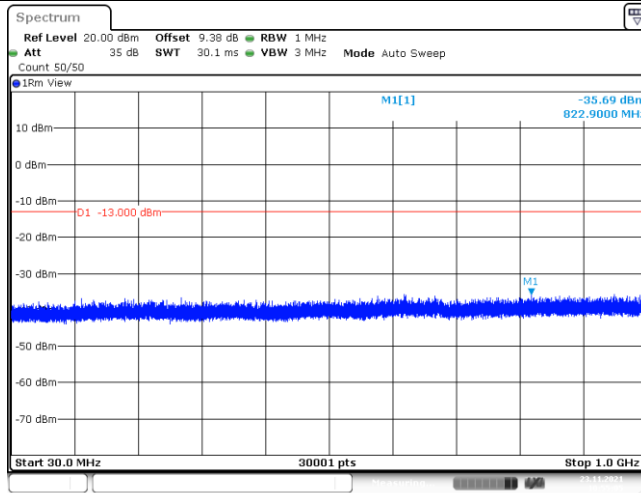
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Band2-1.4MHz-16QAM-19193-1-5-Low-12000-26500--49.67-PASS



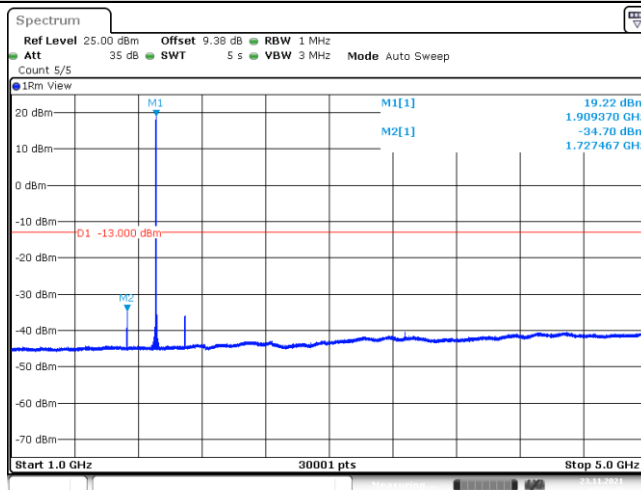
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Band2-1.4MHz-16QAM-19193-6-0-Low-30-1000--35.69-PASS



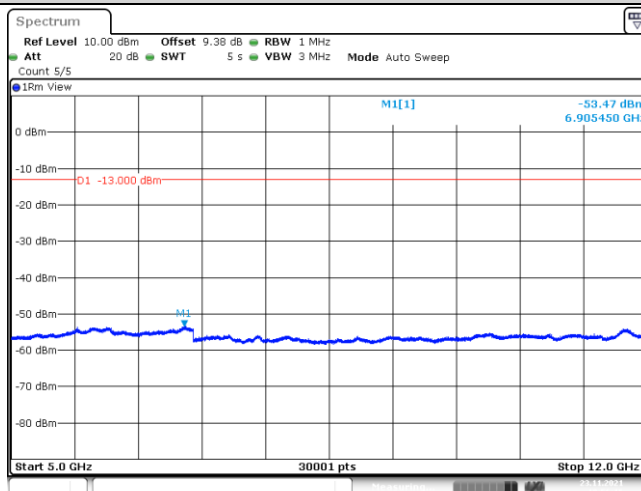
Date: 23.NOV.2021 10:55:05

Band2-1.4MHz-16QAM-19193-6-0-Low-1000-5000--34.7-PASS



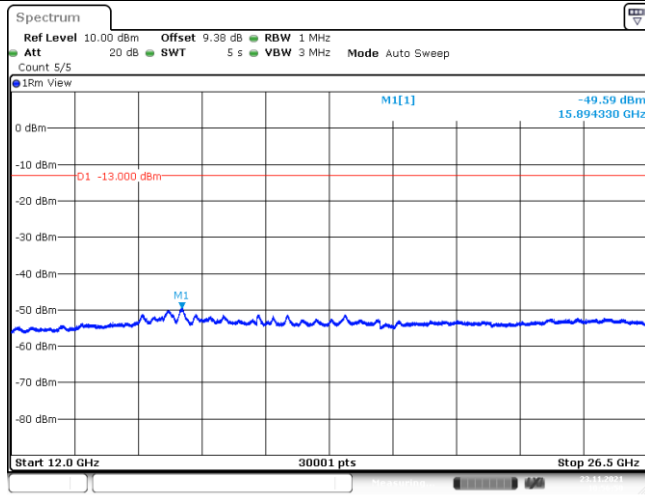
Date: 23.NOV.2021 10:55:41

Band2-1.4MHz-16QAM-19193-6-0-Low-5000-12000--53.47-PASS



Date: 23.NOV.2021 10:56:15

Band2-1.4MHz-16QAM-19193-6-0-Low-12000-26500--49.59-PASS



Date: 23.NOV.2021 10:56:50

APPENDIX A.6: FREQUENCY STABILITY FOR M1

Test Result

Voltage												
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	1.4MHz	18900	QPSK	1	0	Low	HV	NT	-7.45	-0.003963	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	LV	NT	8.01	0.004261	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	NT	-8.30	-0.004415	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	HV	NT	7.11	0.003782	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	LV	NT	9.36	0.004979	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	NT	-8.45	-0.004495	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	85	-9.38	-0.004989	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	-30	6.61	0.003516	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	-20	-8.58	-0.004564	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	-10	6.90	0.003670	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	0	7.78	0.004138	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	10	7.84	0.004170	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	20	-9.26	-0.004926	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	30	-8.44	-0.004489	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	40	8.35	0.004441	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	50	-8.54	-0.004543	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	60	-8.25	-0.004388	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	70	-7.08	-0.003766	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	-40	7.62	0.004053	±2.5	PASS
Band2	1.4MHz	18900	QPSK	1	0	Low	NV	80	7.30	0.003883	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	85	-11.09	-0.005899	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	-30	-7.57	-0.004027	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	-20	-7.61	-0.004048	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	-10	-10.13	-0.005388	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	0	8.43	0.004484	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	10	-8.18	-0.004351	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	20	8.81	0.004686	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	30	-7.35	-0.003910	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	40	-8.68	-0.004617	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	50	-8.60	-0.004574	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	60	8.54	0.004543	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	70	-10.31	-0.005484	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	80	-7.72	-0.004106	±2.5	PASS
Band2	1.4MHz	18900	16QAM	1	0	Low	NV	-40	7.94	0.004223	±2.5	PASS