

Appendix L: Test Results of Band 8_39d for eMTC operation

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APPENDIX L.1: EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dBm)	Verdict
Band8	1.4MHz	21632	QPSK	1	0	Low	23.41	PASS
Band8	1.4MHz	21632	QPSK	6	0	Low	21.31	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	23.43	PASS
Band8	1.4MHz	21640	QPSK	6	0	Low	21.31	PASS
Band8	1.4MHz	21648	QPSK	1	5	Low	23.08	PASS
Band8	1.4MHz	21648	QPSK	6	0	Low	21.30	PASS
Band8	1.4MHz	21632	16QAM	1	0	Low	22.89	PASS
Band8	1.4MHz	21632	16QAM	6	0	Low	21.32	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	22.17	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	21.32	PASS
Band8	1.4MHz	21648	16QAM	1	5	Low	21.97	PASS
Band8	1.4MHz	21648	16QAM	6	0	Low	21.30	PASS
Band8	3MHz	21640	QPSK	1	0	Low	23.43	PASS
Band8	3MHz	21640	QPSK	1	5	High	23.09	PASS
Band8	3MHz	21640	QPSK	6	0	Low	21.31	PASS
Band8	3MHz	21640	16QAM	1	0	Low	22.19	PASS
Band8	3MHz	21640	16QAM	1	5	High	21.82	PASS
Band8	3MHz	21640	16QAM	6	0	Low	21.31	PASS

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

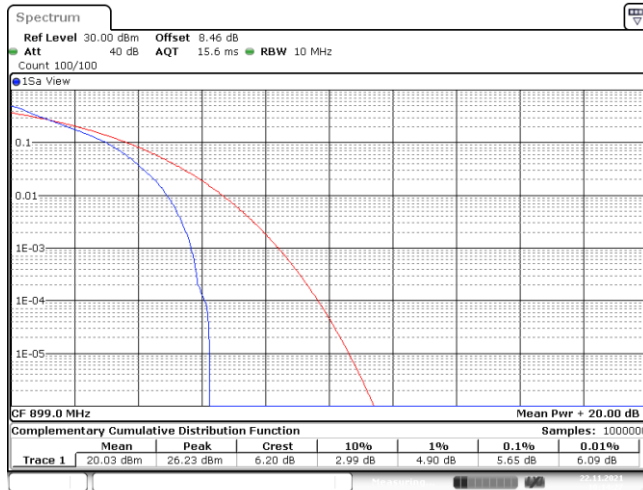
APPENDIX L.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dB)	Limit (dB)	Verdict
Band8	1.4MHz	21640	QPSK	6	0	Low	5.65	<=13	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	9.25	<=13	PASS
Band8	3MHz	21640	QPSK	6	0	Low	9.42	<=13	PASS
Band8	3MHz	21640	16QAM	6	0	Low	9.88	<=13	PASS

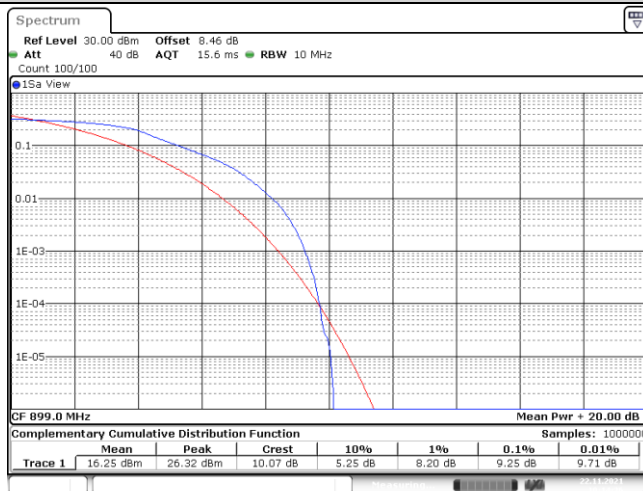
Test Graphs

Band8-1.4MHz-QPSK-21640-6-0-Low-5.65-<=13-PASS



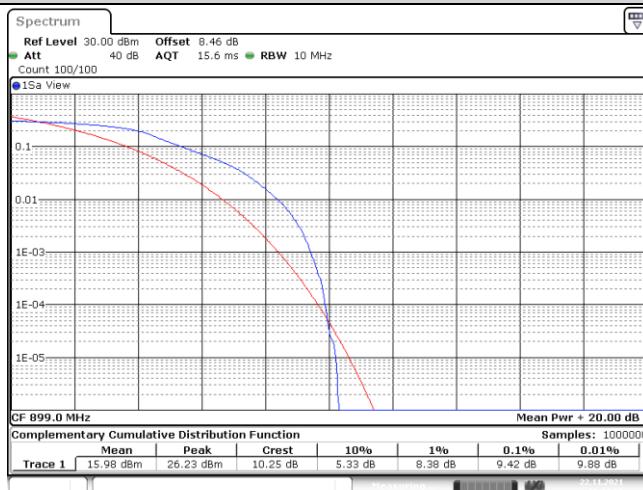
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Band8-1.4MHz-16QAM-21640-6-0-Low-9.25-<=13-PASS

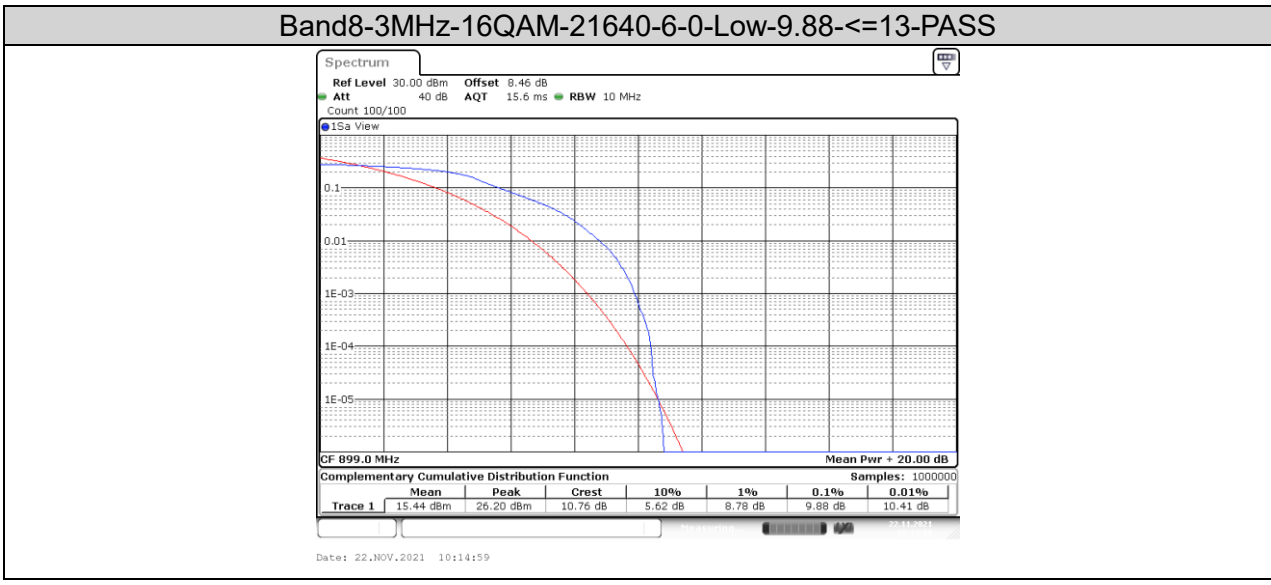


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Band8-3MHz-QPSK-21640-6-0-Low-9.42-<=13-PASS



Date: 22.NOV.2021 10:14:50



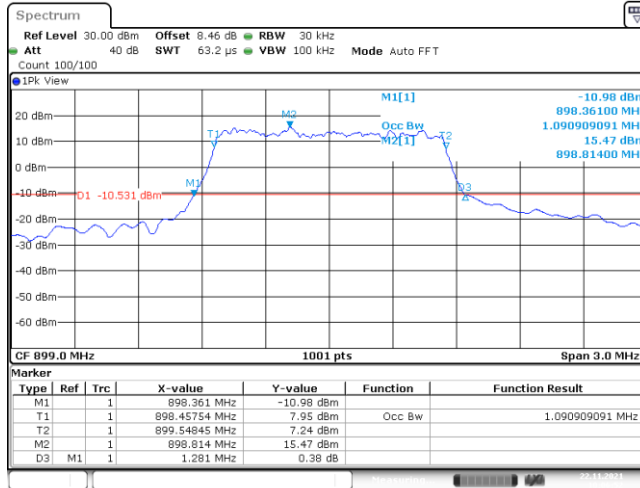
APPENDIX L.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band8	1.4MHz	21640	QPSK	6	0	Low	1.091	1.281	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	1.091	1.278	PASS
Band8	3MHz	21640	QPSK	6	0	Low	1.097	1.290	PASS
Band8	3MHz	21640	16QAM	6	0	Low	1.097	1.290	PASS

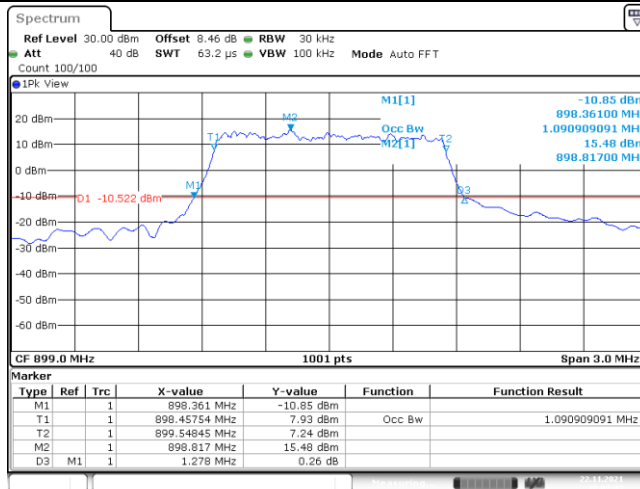
Test Graphs

Band8-1.4MHz-QPSK-21640-6-0-Low-1.091-1.281-PASS



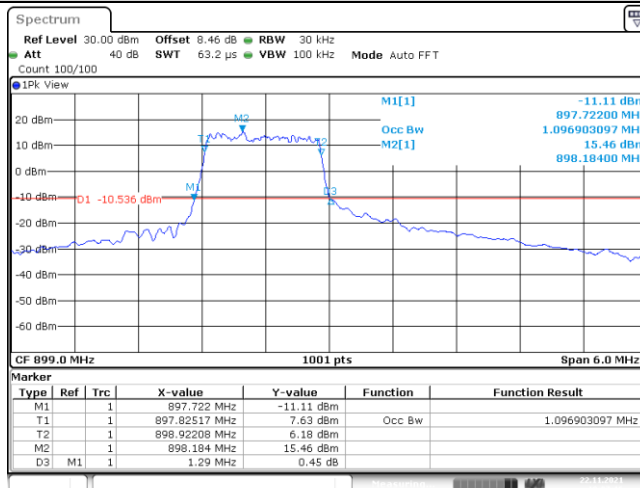
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Band8-1.4MHz-16QAM-21640-6-0-Low-1.091-1.278-PASS



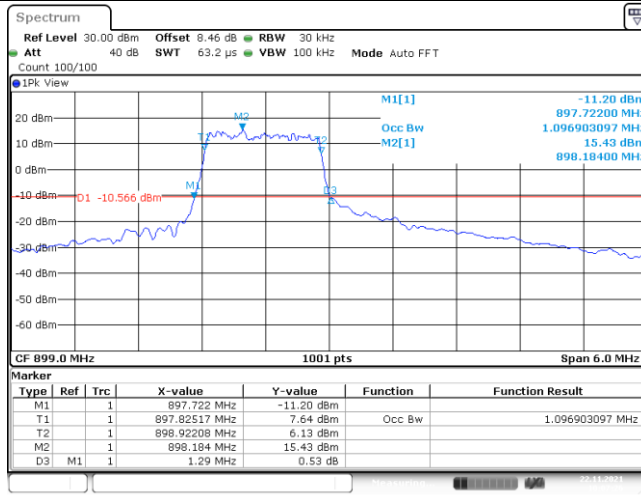
Date: 22.NOV.2021 10:07:03

Band8-3MHz-QPSK-21640-6-0-Low-1.097-1.290-PASS



Date: 22.NOV.2021 10:07:16

Band8-3MHz-16QAM-21640-6-0-Low-1.097-1.290-PASS



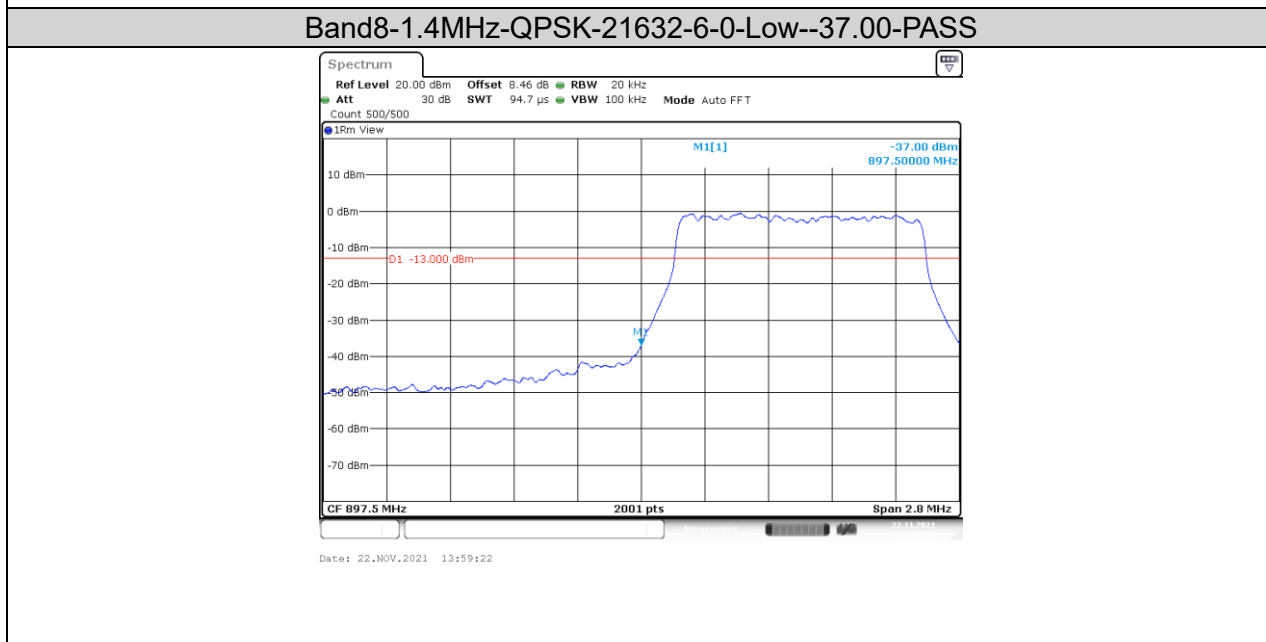
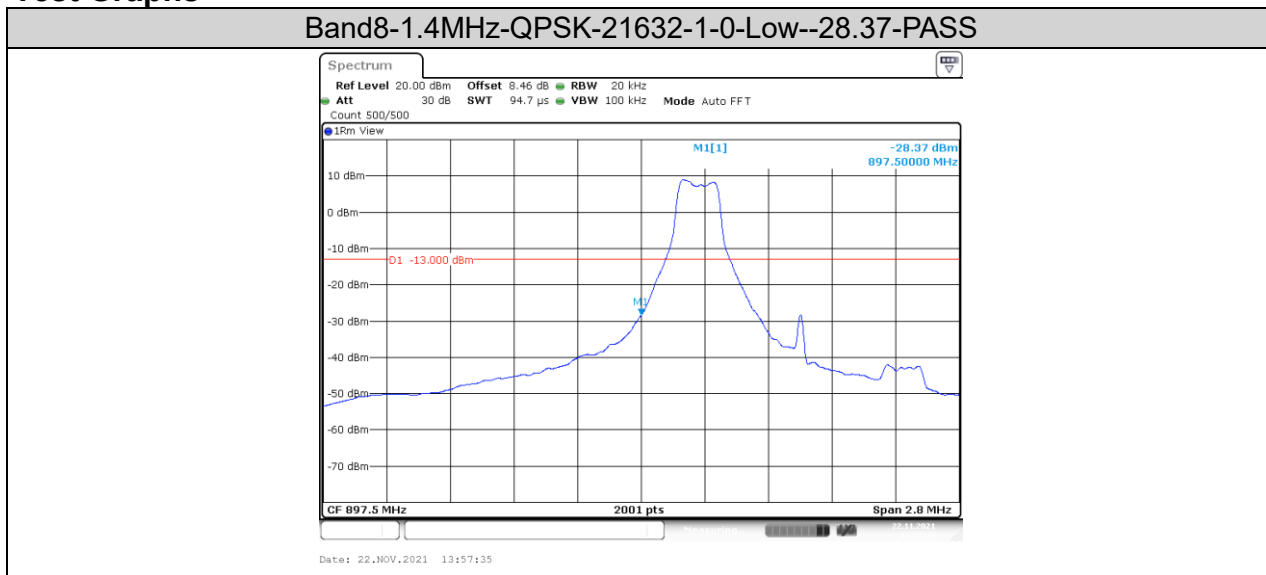
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APPENDIX L.4: BAND EDGE FOR M1

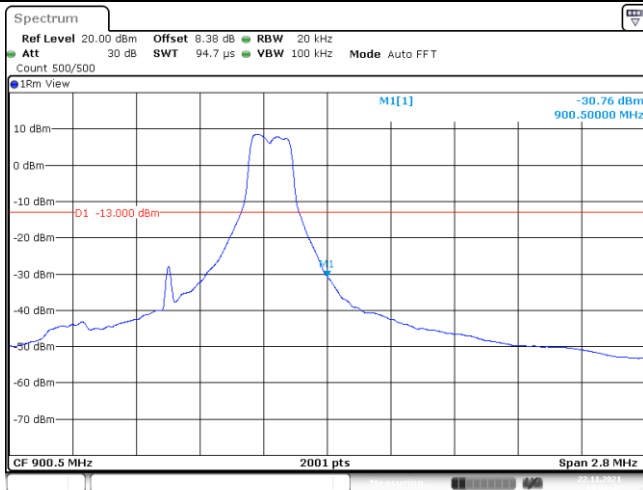
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band8	1.4MHz	21632	QPSK	1	0	Low	-28.37	PASS
Band8	1.4MHz	21632	QPSK	6	0	Low	-37.00	PASS
Band8	1.4MHz	21648	QPSK	1	5	Low	-30.76	PASS
Band8	1.4MHz	21648	QPSK	6	0	Low	-35.72	PASS
Band8	1.4MHz	21632	16QAM	1	0	Low	-30.36	PASS
Band8	1.4MHz	21632	16QAM	6	0	Low	-37.05	PASS
Band8	1.4MHz	21648	16QAM	1	5	Low	-31.41	PASS
Band8	1.4MHz	21648	16QAM	6	0	Low	-36.94	PASS

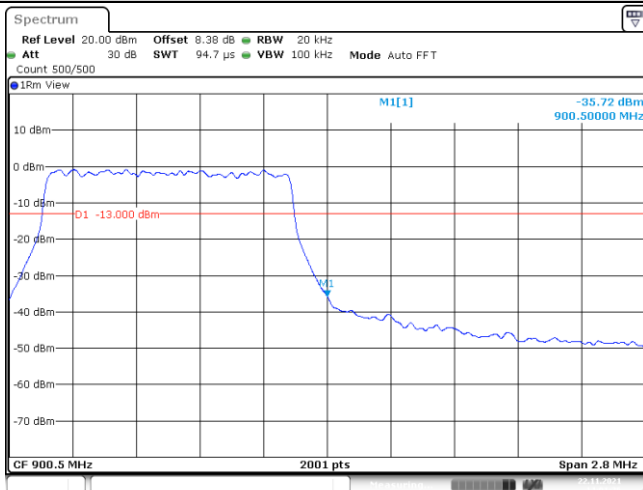
Test Graphs



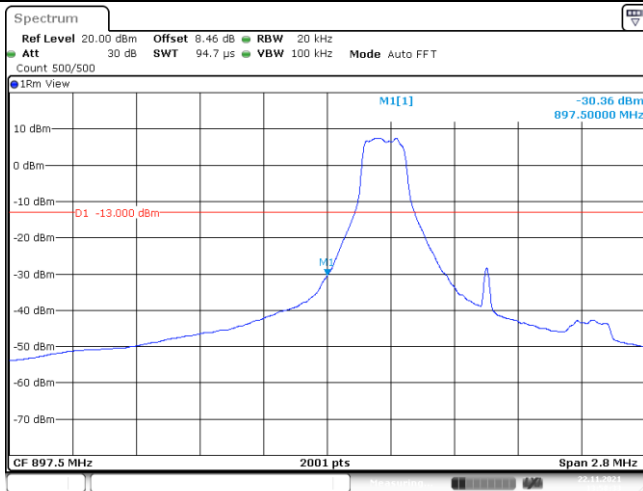
Band8-1.4MHz-QPSK-21648-1-5-Low--30.76-PASS



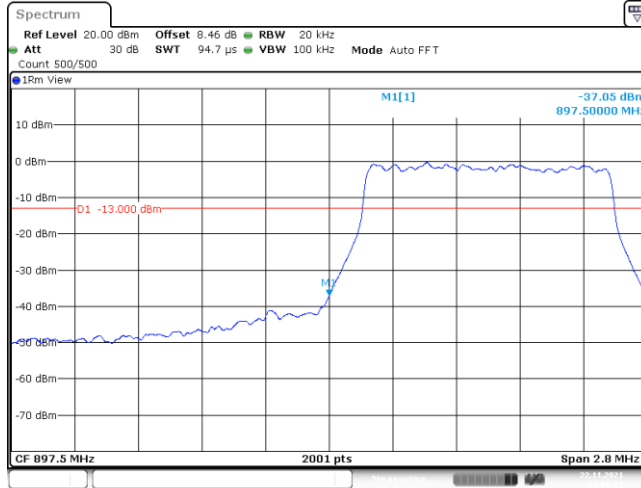
Band8-1.4MHz-QPSK-21648-6-0-Low--35.72-PASS



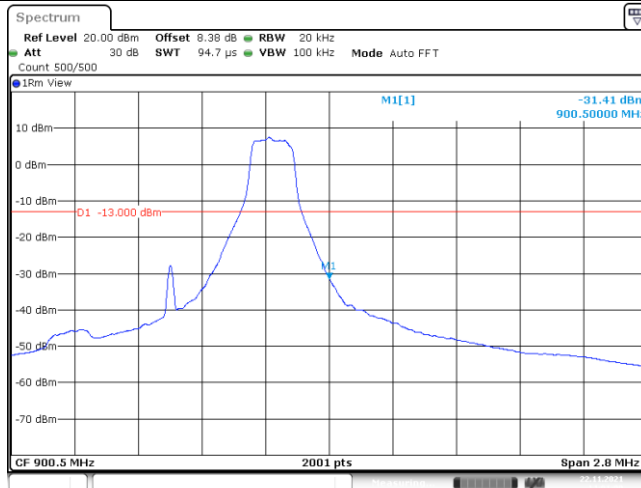
Band8-1.4MHz-16QAM-21632-1-0-Low--30.36-PASS



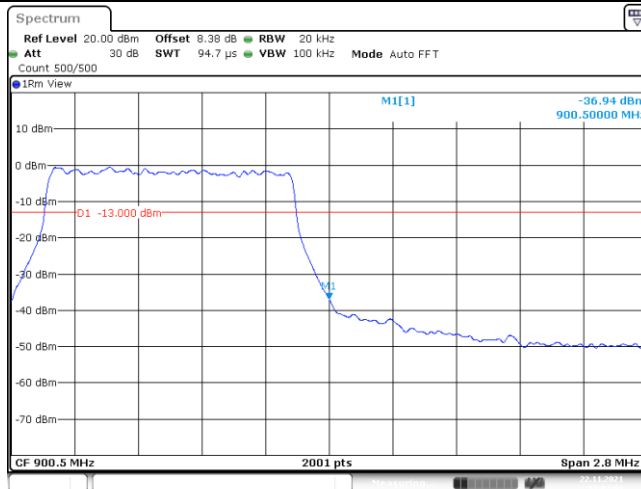
Band8-1.4MHz-16QAM-21632-6-0-Low--37.05-PASS



Band8-1.4MHz-16QAM-21648-1-5-Low--31.41-PASS



Band8-1.4MHz-16QAM-21648-6-0-Low--36.94-PASS



APPENDIX L.5: CONDUCTED SPURIOUS EMISSION FOR M1

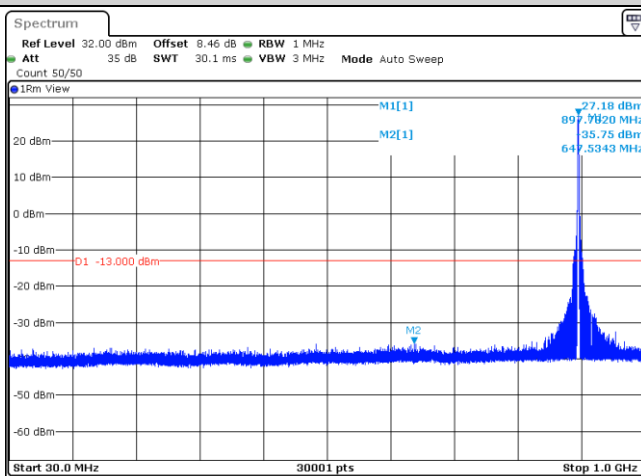
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band8	1.4MHz	21632	QPSK	1	0	Low	30	1000	-35.75	PASS
Band8	1.4MHz	21632	QPSK	1	0	Low	1000	5000	-41.32	PASS
Band8	1.4MHz	21632	QPSK	1	0	Low	5000	12000	-51.15	PASS
Band8	1.4MHz	21632	QPSK	1	0	Low	12000	26500	-50.85	PASS
Band8	1.4MHz	21632	QPSK	6	0	Low	30	1000	-36.43	PASS
Band8	1.4MHz	21632	QPSK	6	0	Low	1000	5000	-41.47	PASS
Band8	1.4MHz	21632	QPSK	6	0	Low	5000	12000	-54.44	PASS
Band8	1.4MHz	21632	QPSK	6	0	Low	12000	26500	-50.66	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	30	1000	-35.62	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	1000	5000	-41.32	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	5000	12000	-51.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	12000	26500	-50.83	PASS
Band8	1.4MHz	21640	QPSK	6	0	Low	30	1000	-36.1	PASS
Band8	1.4MHz	21640	QPSK	6	0	Low	1000	5000	-41.43	PASS
Band8	1.4MHz	21640	QPSK	6	0	Low	5000	12000	-54.54	PASS
Band8	1.4MHz	21640	QPSK	6	0	Low	12000	26500	-50.81	PASS
Band8	1.4MHz	21648	QPSK	1	5	Low	30	1000	-35.65	PASS
Band8	1.4MHz	21648	QPSK	1	5	Low	1000	5000	-41.42	PASS
Band8	1.4MHz	21648	QPSK	1	5	Low	5000	12000	-51.29	PASS
Band8	1.4MHz	21648	QPSK	1	5	Low	12000	26500	-50.6	PASS
Band8	1.4MHz	21648	QPSK	6	0	Low	30	1000	-35.03	PASS
Band8	1.4MHz	21648	QPSK	6	0	Low	1000	5000	-41.43	PASS
Band8	1.4MHz	21648	QPSK	6	0	Low	5000	12000	-54.52	PASS
Band8	1.4MHz	21648	QPSK	6	0	Low	12000	26500	-50.6	PASS
Band8	1.4MHz	21632	16QAM	1	0	Low	30	1000	-35.61	PASS
Band8	1.4MHz	21632	16QAM	1	0	Low	1000	5000	-41.43	PASS
Band8	1.4MHz	21632	16QAM	1	0	Low	5000	12000	-51.89	PASS
Band8	1.4MHz	21632	16QAM	1	0	Low	12000	26500	-50.66	PASS
Band8	1.4MHz	21632	16QAM	6	0	Low	30	1000	-35.36	PASS
Band8	1.4MHz	21632	16QAM	6	0	Low	1000	5000	-41.36	PASS
Band8	1.4MHz	21632	16QAM	6	0	Low	5000	12000	-54.5	PASS
Band8	1.4MHz	21632	16QAM	6	0	Low	12000	26500	-50.7	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	30	1000	-34.84	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	1000	5000	-41.24	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	5000	12000	-51.27	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	12000	26500	-50.52	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	30	1000	-35.33	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	1000	5000	-41.3	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	5000	12000	-54.38	PASS
Band8	1.4MHz	21640	16QAM	6	0	Low	12000	26500	-50.7	PASS
Band8	1.4MHz	21648	16QAM	1	5	Low	30	1000	-35.16	PASS

Band8	1.4MHz	21648	16QAM	1	5	Low	1000	5000	-41.39	PASS
Band8	1.4MHz	21648	16QAM	1	5	Low	5000	12000	-52.33	PASS
Band8	1.4MHz	21648	16QAM	1	5	Low	12000	26500	-50.75	PASS
Band8	1.4MHz	21648	16QAM	6	0	Low	30	1000	-36.06	PASS
Band8	1.4MHz	21648	16QAM	6	0	Low	1000	5000	-41.13	PASS
Band8	1.4MHz	21648	16QAM	6	0	Low	5000	12000	-54.6	PASS
Band8	1.4MHz	21648	16QAM	6	0	Low	12000	26500	-50.73	PASS

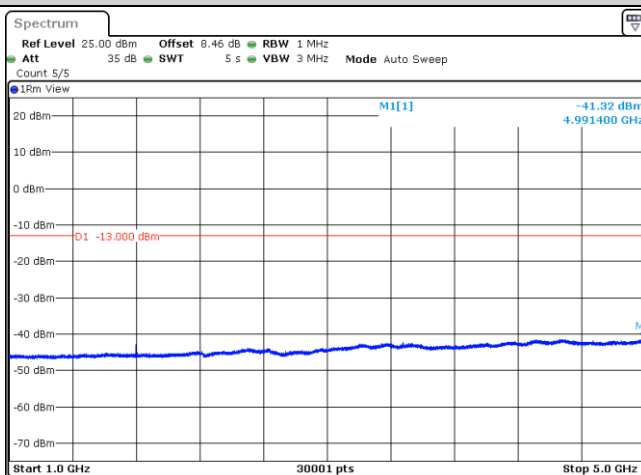
Test Graphs

Band8-1.4MHz-QPSK-21632-1-0-Low-30-1000--35.75-PASS



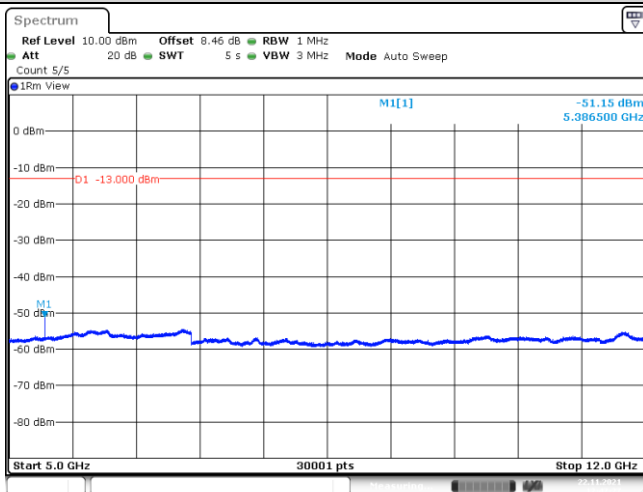
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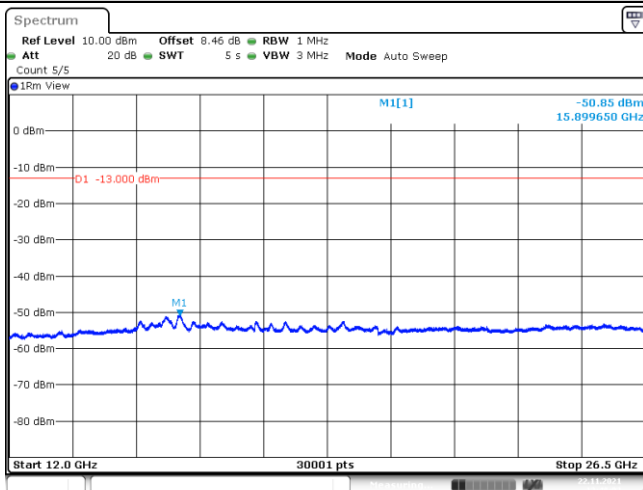
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Band8-1.4MHz-QPSK-21632-1-0-Low-5000-12000--51.15-PASS



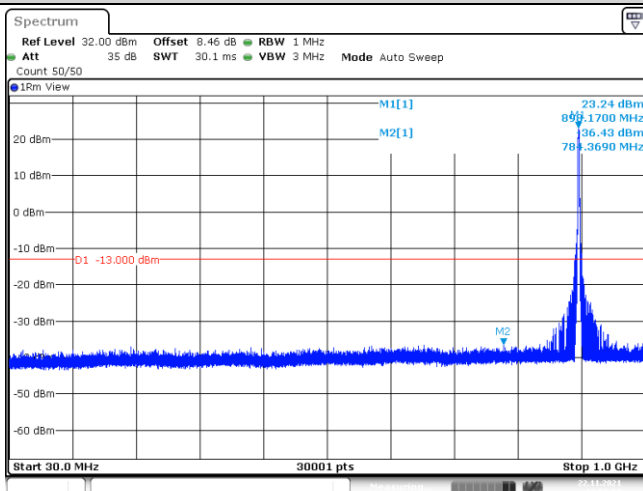
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Band8-1.4MHz-QPSK-21632-1-0-Low-12000-26500--50.85-PASS



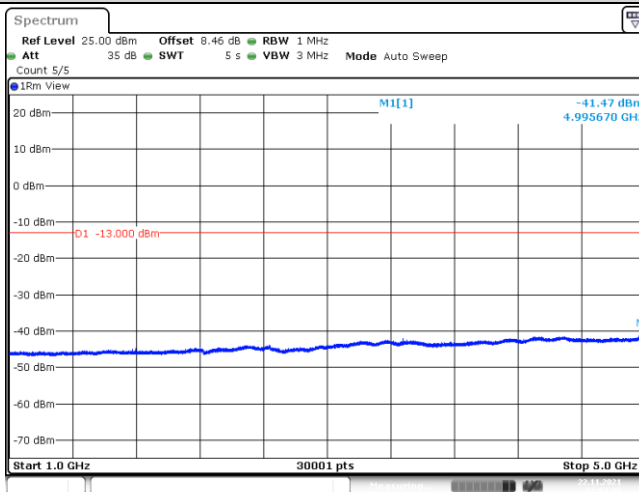
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Band8-1.4MHz-QPSK-21632-6-0-Low-30-1000--36.43-PASS

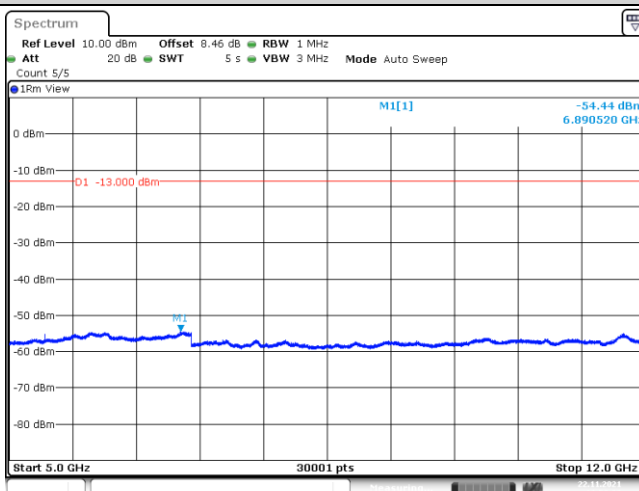


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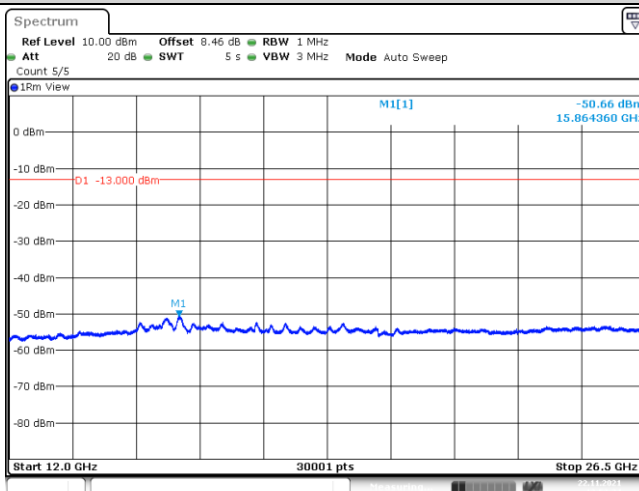
Band8-1.4MHz-QPSK-21632-6-0-Low-1000-5000--41.47-PASS



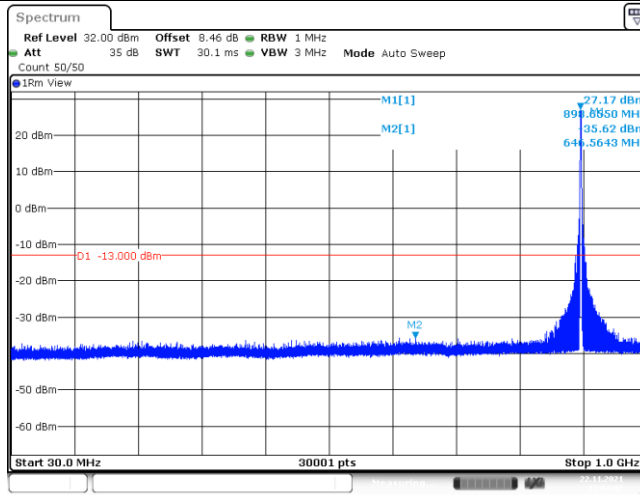
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Band8-1.4MHz-QPSK-21632-6-0-Low-12000-26500--50.66-PASS

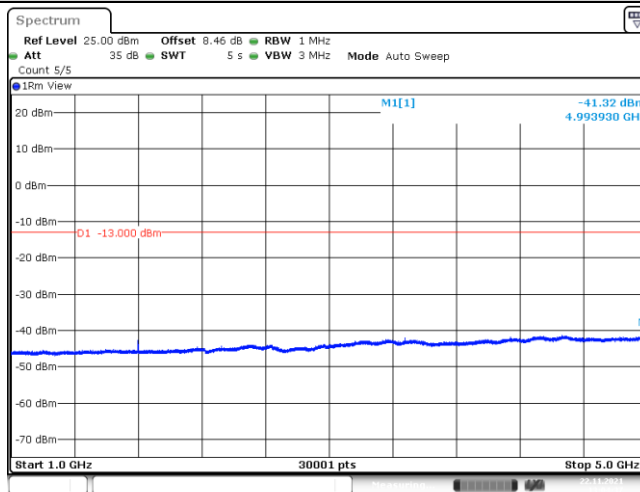


Band8-1.4MHz-QPSK-21640-1-0-Low-30-1000--35.62-PASS



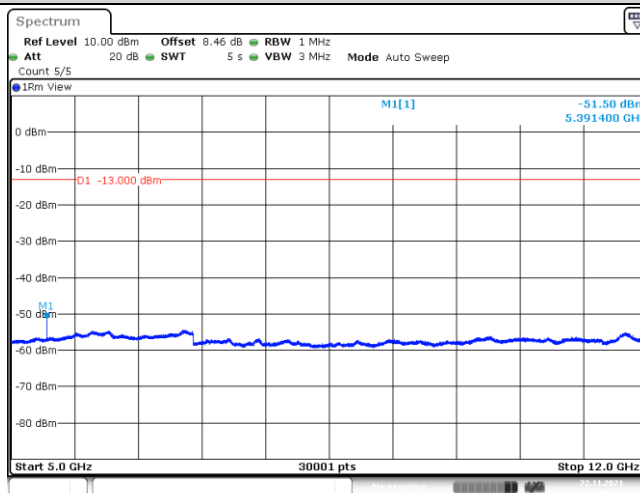
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Band8-1.4MHz-QPSK-21640-1-0-Low-1000-5000--41.32-PASS



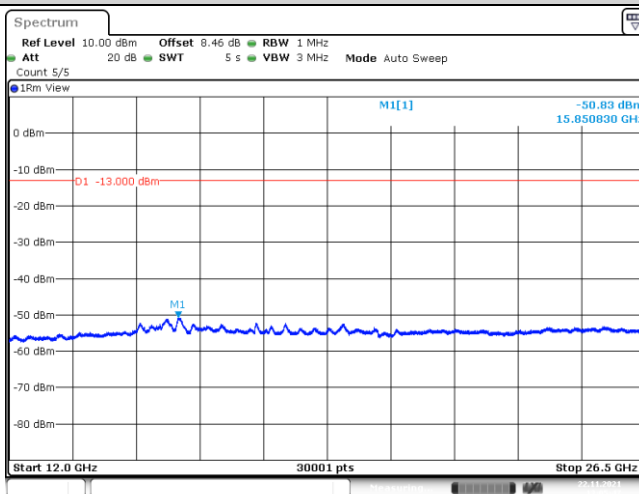
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Band8-1.4MHz-QPSK-21640-1-0-Low-5000-12000--51.5-PASS



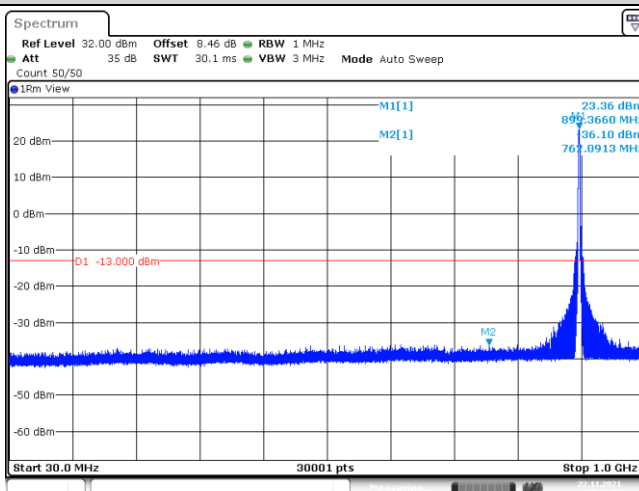
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Band8-1.4MHz-QPSK-21640-1-0-Low-12000-26500--50.83-PASS



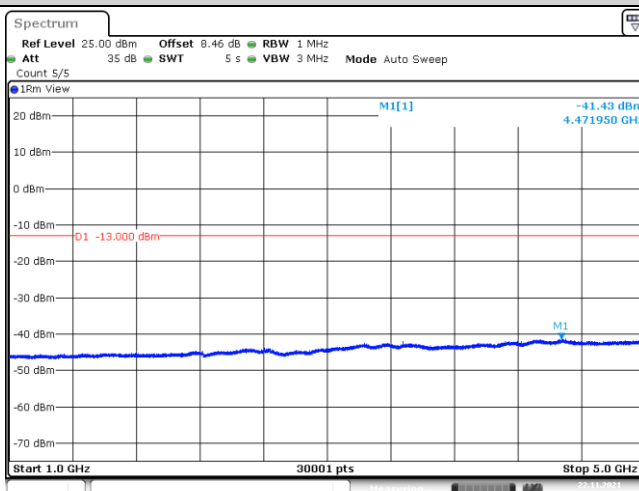
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Band8-1.4MHz-QPSK-21640-6-0-Low-30-1000--36.1-PASS



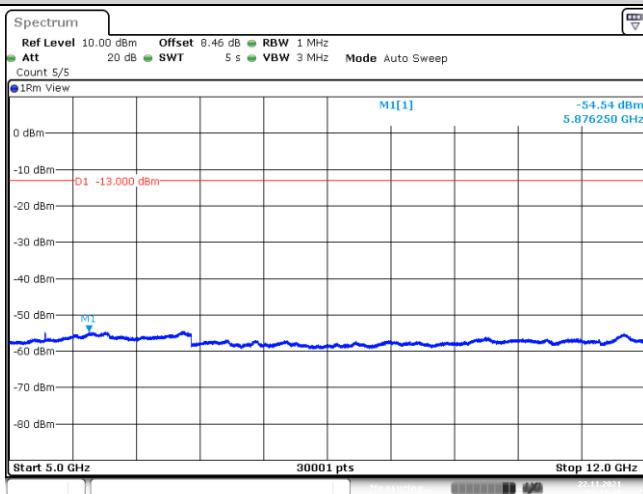
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Band8-1.4MHz-QPSK-21640-6-0-Low-1000-5000--41.43-PASS



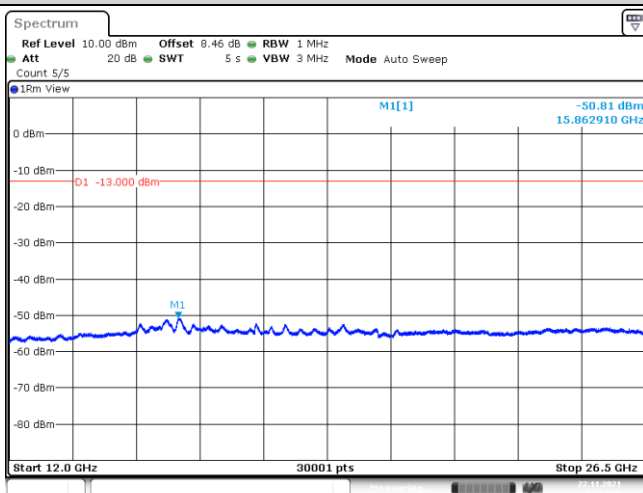
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Band8-1.4MHz-QPSK-21640-6-0-Low-5000-12000--54.54-PASS



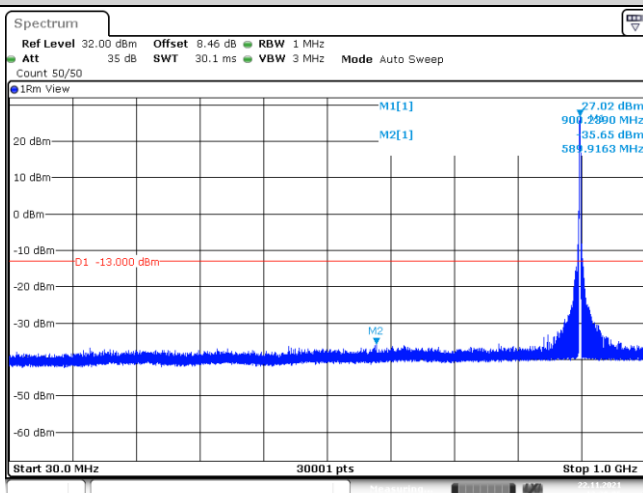
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Band8-1.4MHz-QPSK-21640-6-0-Low-12000-26500--50.81-PASS



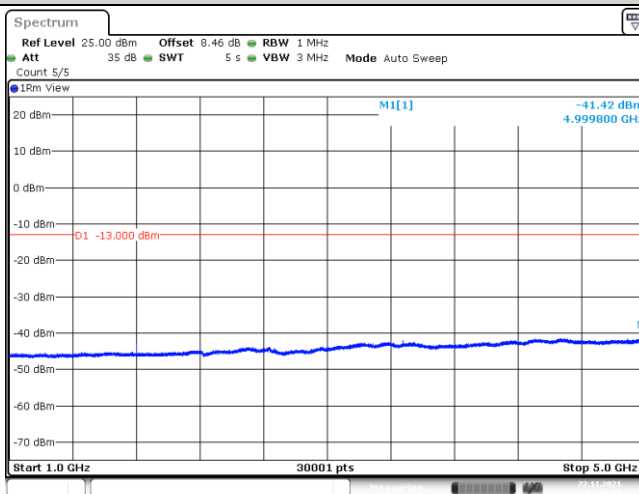
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Band8-1.4MHz-QPSK-21648-1-5-Low-30-1000--35.65-PASS



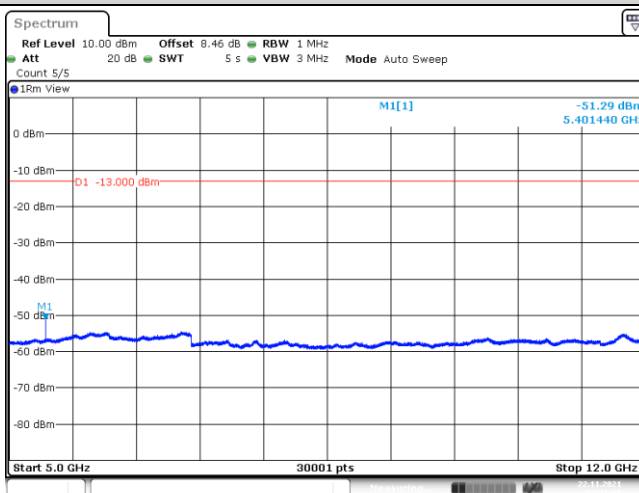
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Band8-1.4MHz-QPSK-21648-1-5-Low-1000-5000--41.42-PASS



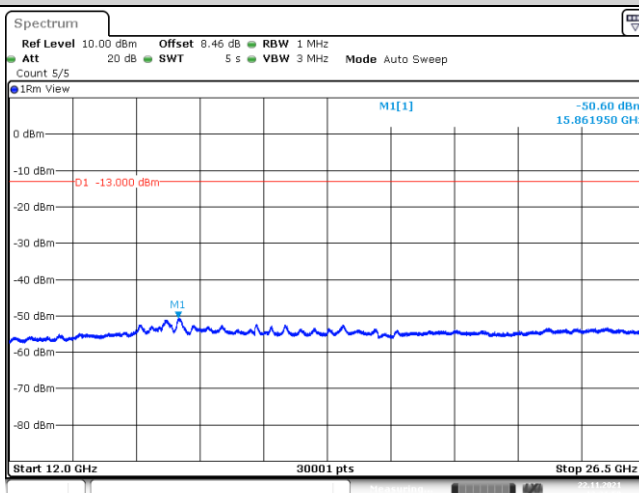
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Band8-1.4MHz-QPSK-21648-1-5-Low-5000-12000--51.29-PASS



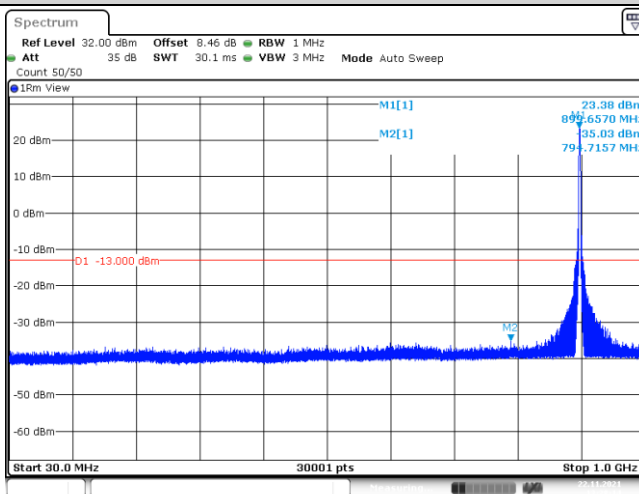
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Band8-1.4MHz-QPSK-21648-1-5-Low-12000-26500--50.6-PASS



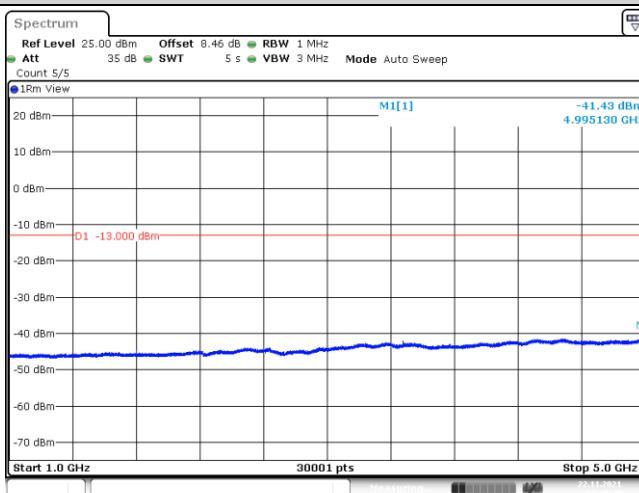
Date: 22.NOV.2021 13:21:50

Band8-1.4MHz-QPSK-21648-6-0-Low-30-1000--35.03-PASS



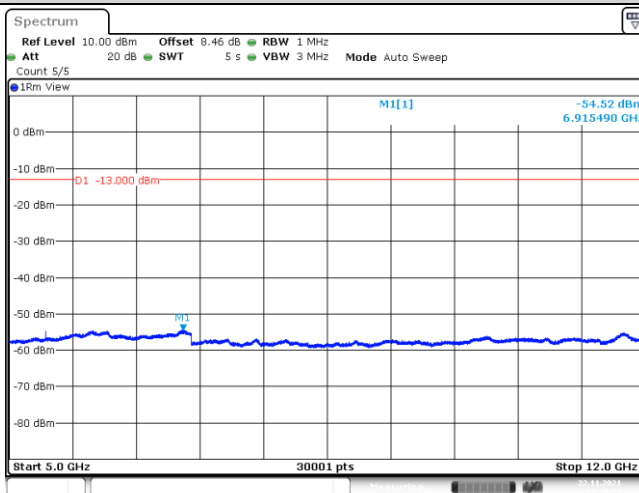
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Band8-1.4MHz-QPSK-21648-6-0-Low-1000-5000--41.43-PASS



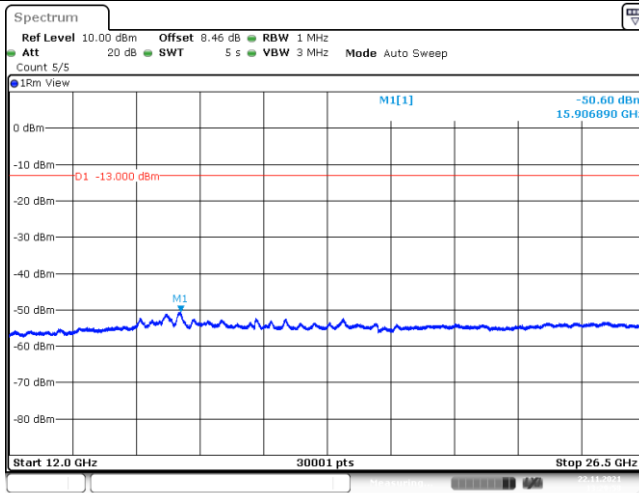
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Band8-1.4MHz-QPSK-21648-6-0-Low-5000-12000--54.52-PASS



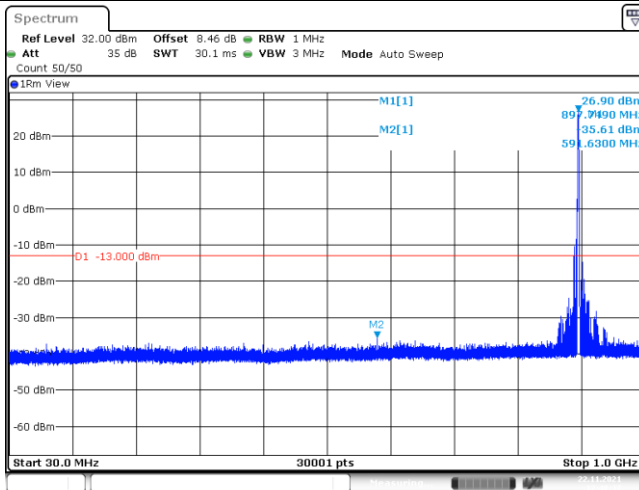
Date: 22.NOV.2021 13:29:23

Band8-1.4MHz-QPSK-21648-6-0-Low-12000-26500--50.6-PASS



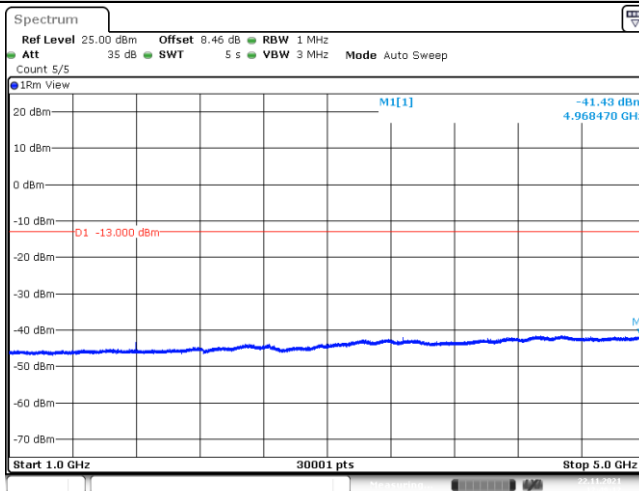
Date: 22.NOV.2021 13:29:58

Band8-1.4MHz-16QAM-21632-1-0-Low-30-1000--35.61-PASS



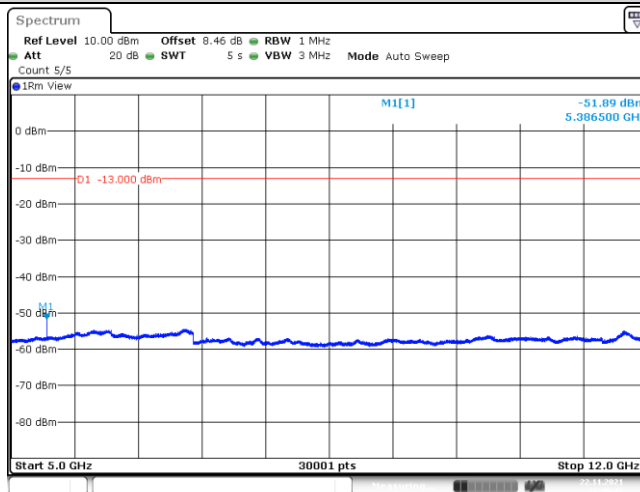
Date: 22.NOV.2021 12:48:37

Band8-1.4MHz-16QAM-21632-1-0-Low-1000-5000--41.43-PASS



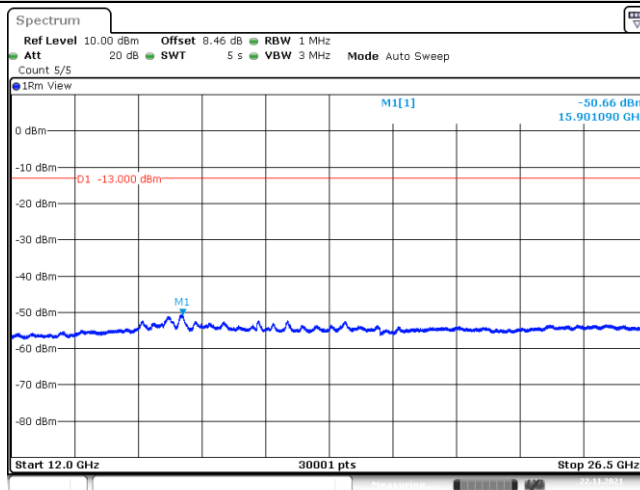
Date: 22.NOV.2021 12:49:12

Band8-1.4MHz-16QAM-21632-1-0-Low-5000-12000--51.89-PASS



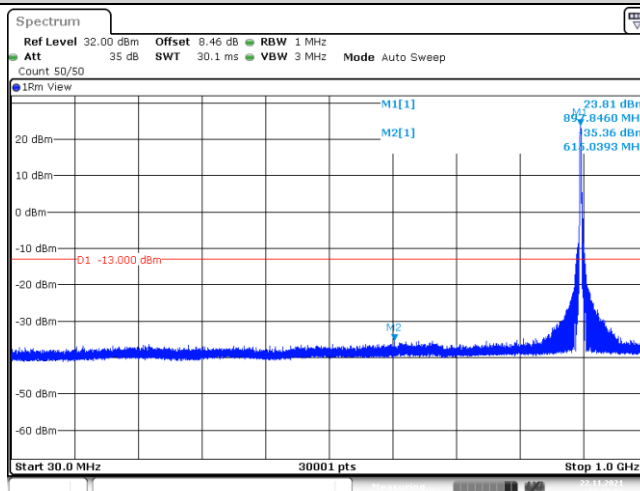
Date: 22.NOV.2021 12:49:47

Band8-1.4MHz-16QAM-21632-1-0-Low-12000-26500--50.66-PASS



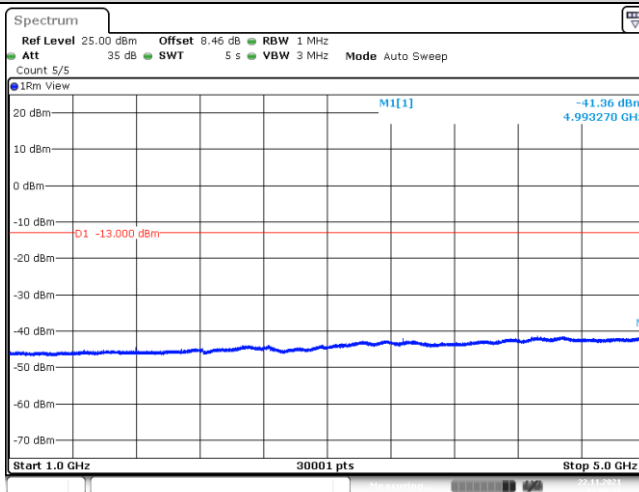
Date: 22.NOV.2021 12:50:22

Band8-1.4MHz-16QAM-21632-6-0-Low-30-1000--35.36-PASS

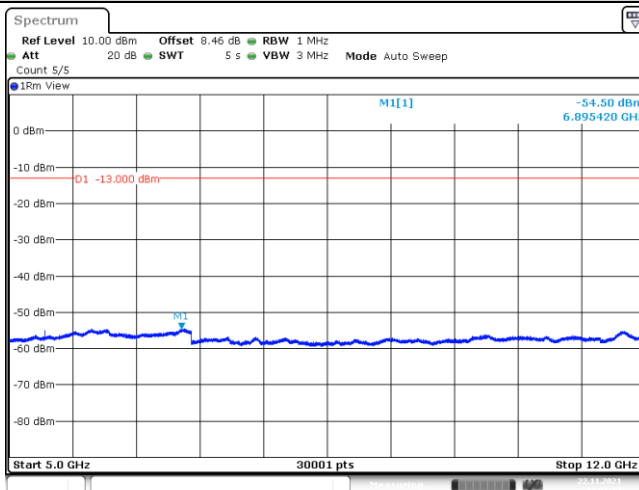


Date: 22.NOV.2021 13:00:03

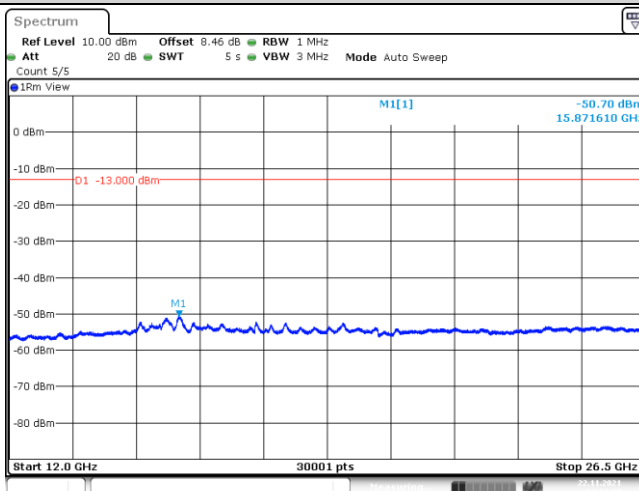
Band8-1.4MHz-16QAM-21632-6-0-Low-1000-5000--41.36-PASS



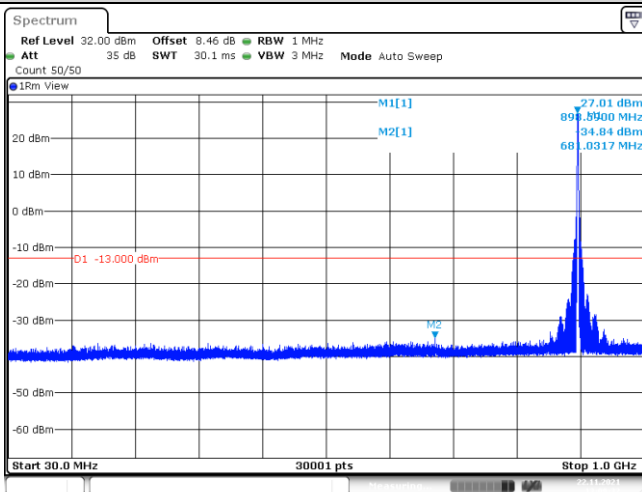
Band8-1.4MHz-16QAM-21632-6-0-Low-5000-12000--54.5-PASS



Band8-1.4MHz-16QAM-21632-6-0-Low-12000-26500--50.7-PASS

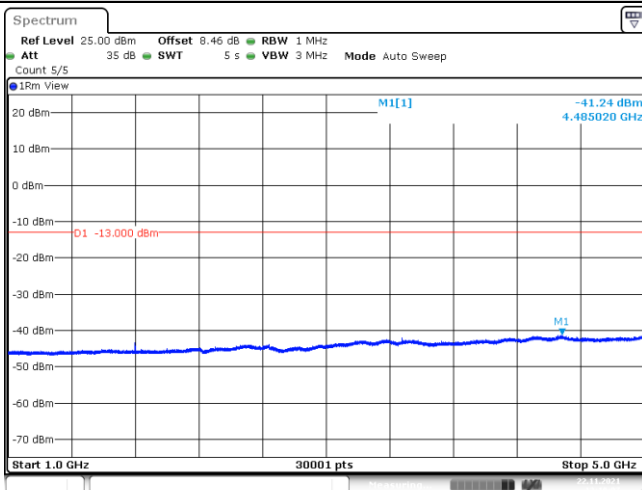


Band8-1.4MHz-16QAM-21640-1-0-Low-30-1000--34.84-PASS



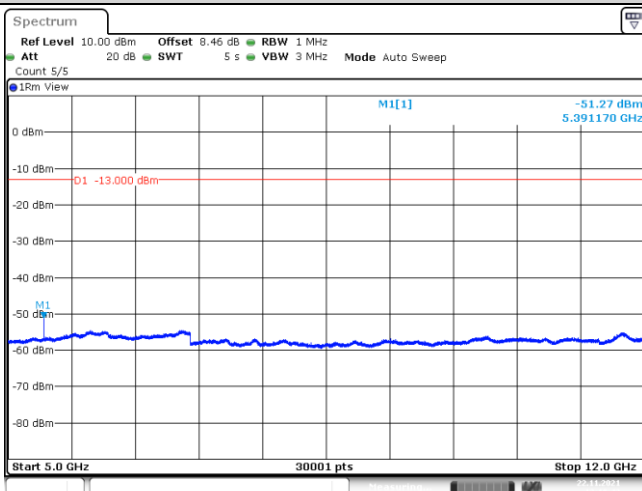
Date: 22.NOV.2021 13:09:33

Band8-1.4MHz-16QAM-21640-1-0-Low-1000-5000--41.24-PASS



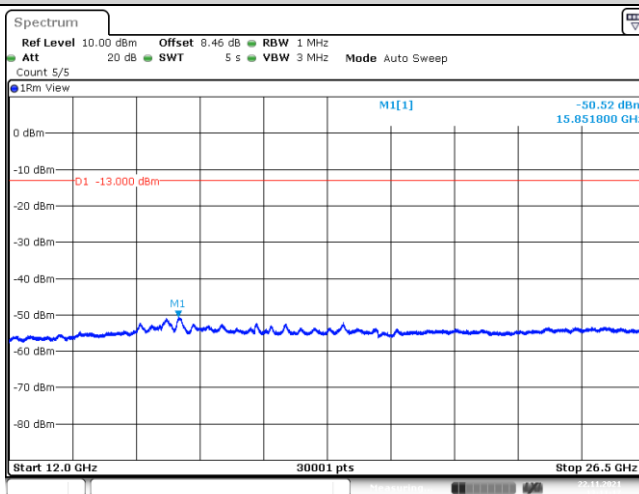
Date: 22.NOV.2021 13:10:08

Band8-1.4MHz-16QAM-21640-1-0-Low-5000-12000--51.27-PASS



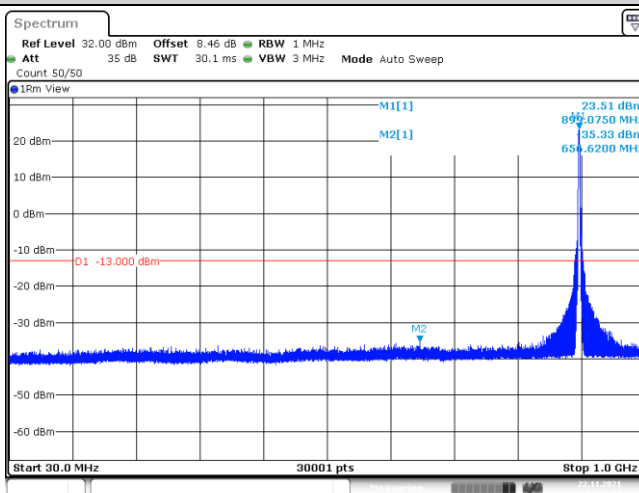
Date: 22.NOV.2021 13:10:43

Band8-1.4MHz-16QAM-21640-1-0-Low-12000-26500--50.52-PASS



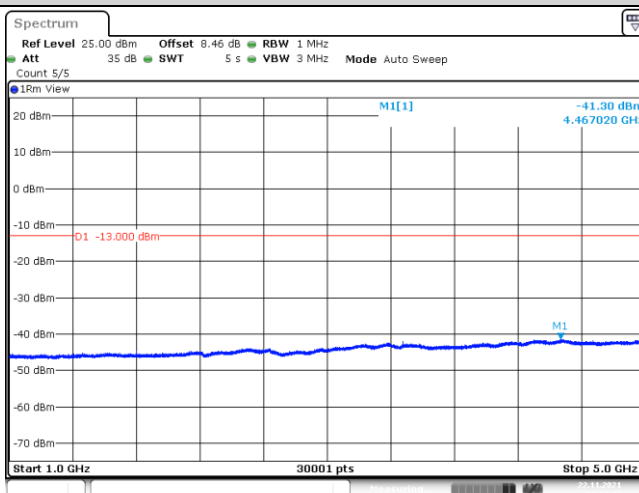
Date: 22.NOV.2021 13:11:18

Band8-1.4MHz-16QAM-21640-6-0-Low-30-1000--35.33-PASS



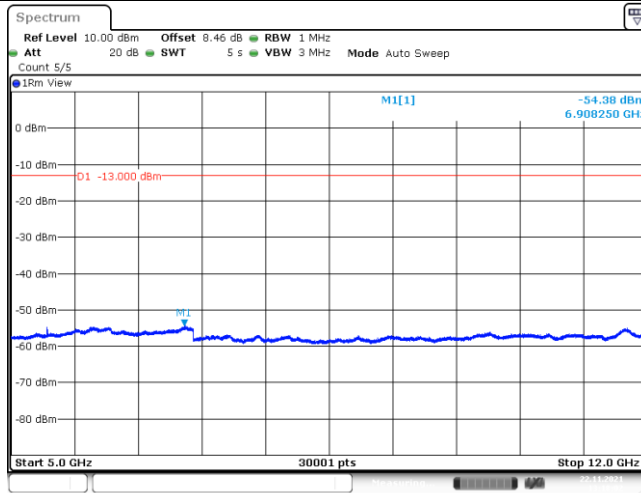
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Band8-1.4MHz-16QAM-21640-6-0-Low-1000-5000--41.3-PASS



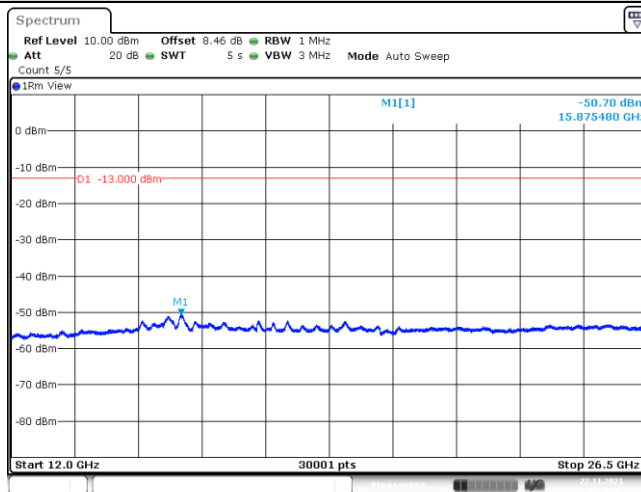
Date: 22.NOV.2021 13:17:28

Band8-1.4MHz-16QAM-21640-6-0-Low-5000-12000--54.38-PASS



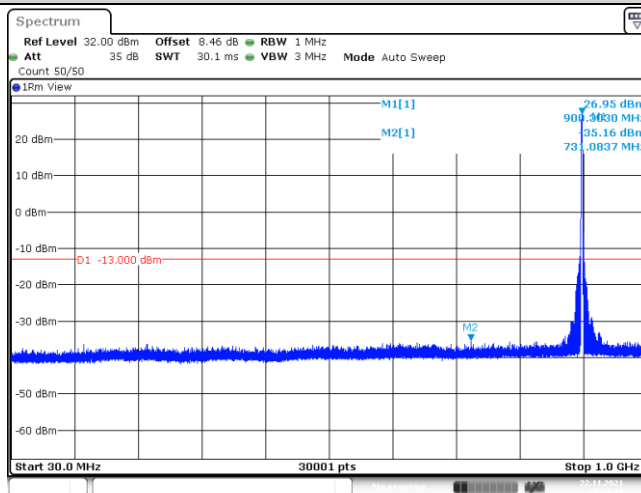
Date: 22.NOV.2021 13:18:03

Band8-1.4MHz-16QAM-21640-6-0-Low-12000-26500--50.7-PASS



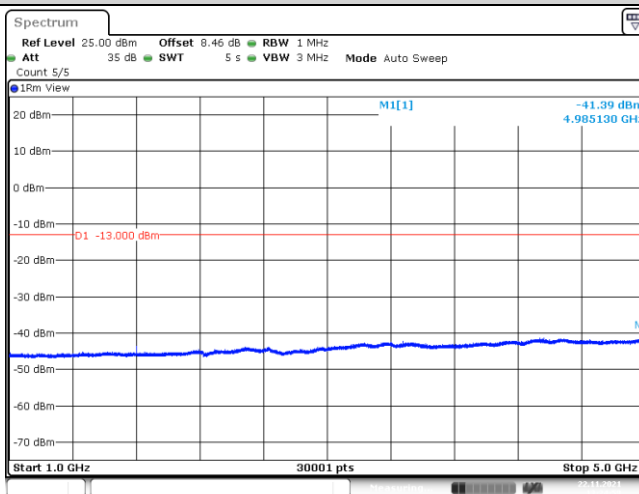
Date: 22.NOV.2021 13:18:37

Band8-1.4MHz-16QAM-21648-1-5-Low-30-1000--35.16-PASS



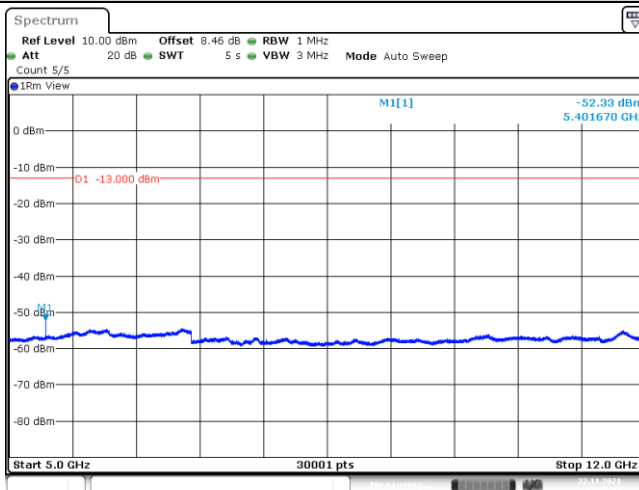
Date: 22.NOV.2021 13:24:23

Band8-1.4MHz-16QAM-21648-1-5-Low-1000-5000--41.39-PASS



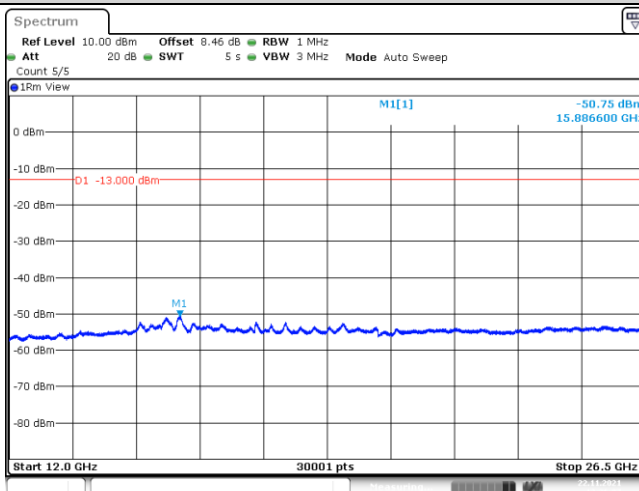
Date: 22.NOV.2021 13:24:58

Band8-1.4MHz-16QAM-21648-1-5-Low-5000-12000--52.33-PASS



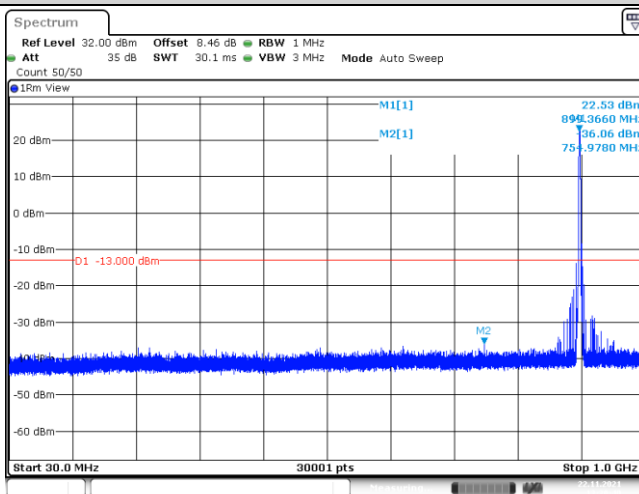
Date: 22.NOV.2021 13:25:32

Band8-1.4MHz-16QAM-21648-1-5-Low-12000-26500--50.75-PASS



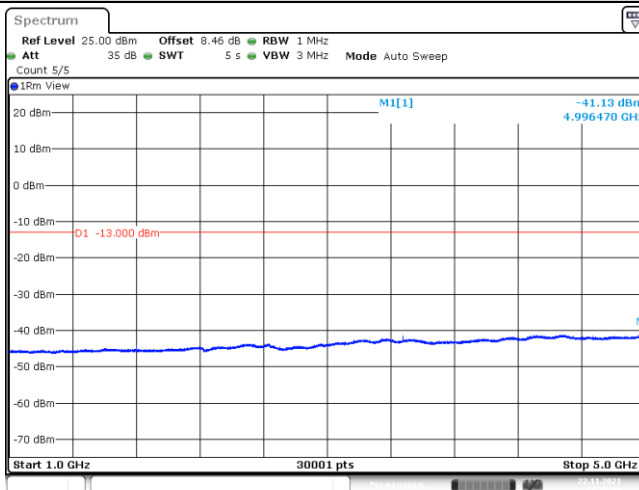
Date: 22.NOV.2021 13:26:07

Band8-1.4MHz-16QAM-21648-6-0-Low-30-1000--36.06-PASS



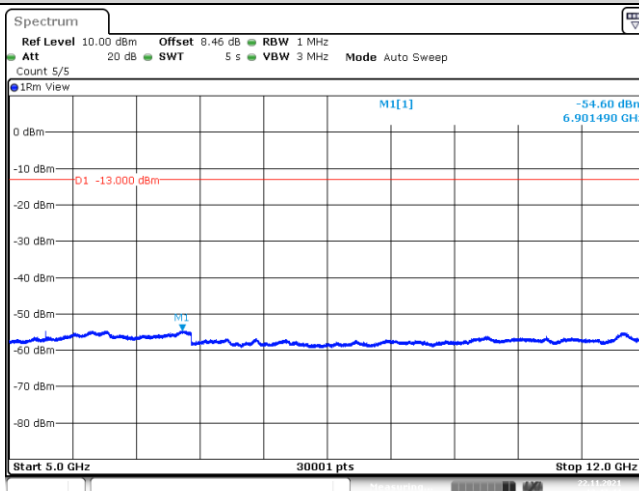
Date: 22.NOV.2021 13:30:39

Band8-1.4MHz-16QAM-21648-6-0-Low-1000-5000--41.13-PASS



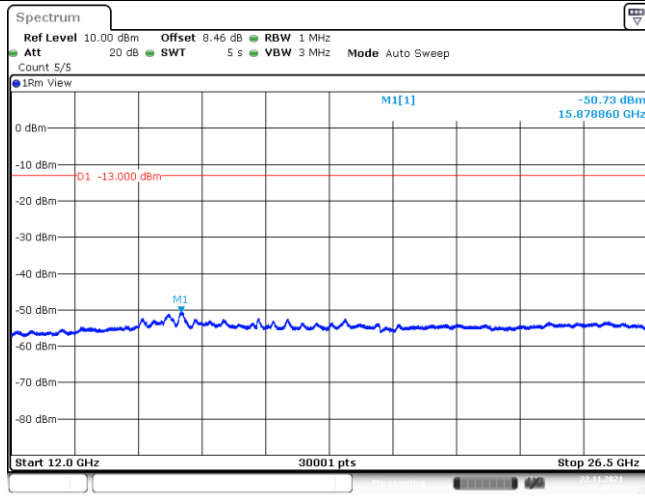
Date: 22.NOV.2021 13:47:09

Band8-1.4MHz-16QAM-21648-6-0-Low-5000-12000--54.6-PASS



Date: 22.NOV.2021 13:47:43

Band8-1.4MHz-16QAM-21648-6-0-Low-12000-26500--50.73-PASS



Date: 22.NOV.2021 13:48:18

APPENDIX L.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
Band8	1.4MHz	21640	QPSK	1	0	Low	HV	NT	5.39	0.005996	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	LV	NT	6.42	0.007141	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	NT	6.25	0.006952	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	HV	NT	6.07	0.006752	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	LV	NT	7.58	0.008432	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	NT	6.09	0.006774	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	85	4.92	0.005473	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	-30	3.13	0.003482	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	-20	5.36	0.005962	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	-10	6.92	0.007697	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	0	4.36	0.004850	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	10	4.19	0.004661	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	20	6.09	0.006774	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	30	3.82	0.004249	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	40	5.81	0.006463	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	50	4.51	0.005017	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	60	4.48	0.004983	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	70	3.63	0.004038	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	-40	3.42	0.003804	±2.5	PASS
Band8	1.4MHz	21640	QPSK	1	0	Low	NV	80	3.95	0.004394	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	85	5.65	0.006285	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	-30	6.38	0.007097	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	-20	3.81	0.004238	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	-10	5.44	0.006051	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	0	4.55	0.005061	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	10	5.22	0.005806	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	20	6.90	0.007675	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	30	6.34	0.007052	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	40	5.36	0.005962	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	50	5.01	0.005573	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	60	5.38	0.005984	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	70	5.69	0.006329	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	80	3.88	0.004316	±2.5	PASS
Band8	1.4MHz	21640	16QAM	1	0	Low	NV	-40	8.03	0.008932	±2.5	PASS