

Appendix for LTE Band 17

Applicant: UCLOUDLINK (SINGAPORE) PTE.LTD

**Address: 80 ROBINSON ROAD #02-00
SINGAPORE(068898)**

Product Name: Cloudsim Kit

Model: GLMU24A02

TABLE OF CONTENTS

APPENDIX A: CONDUCTED OUTPUT POWER DATA.....	3
APPENDIX B: PEAK-TO-AVERAGE RATIO(CCDF).....	5
APPENDIX C: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	13
APPENDIX D: BAND EDGE	17
APPENDIX E: CONDUCTED SPURIOUS EMISSION.....	25
APPENDIX F: FREQUENCY STABILITY	47

Appendix A: Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.14	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.85	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.94	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.80	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.44	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.28	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.66	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.70	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.63	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.73	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.46	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.54	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.71	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.73	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.83	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.66	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.58	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.56	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.28	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.01	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.57	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.50	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.58	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.57	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.91	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.89	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.21	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.29	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.45	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.25	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.14	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.09	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.60	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.63	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.19	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.15	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.03	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.13	PASS

Band17	10MHz	QPSK	23780	1RB#24	22.85	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.69	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.19	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.19	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.91	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.89	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.90	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.86	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.38	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.59	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.33	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.04	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.25	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.87	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.17	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.96	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.46	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.57	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.00	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.20	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.88	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.31	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.21	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.52	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.34	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.21	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.09	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.14	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.31	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.68	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.02	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.51	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.14	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.04	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.00	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.31	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.57	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.51	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.60	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.41	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.24	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.42	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.70	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

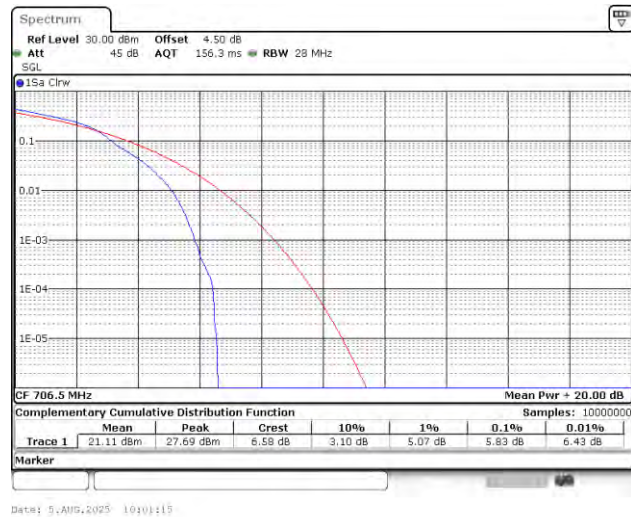
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.04	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.83	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	6.09	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.96	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.65	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.38	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	6.03	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.96	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.16	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	6.06	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.51	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.41	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.06	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.92	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.85	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.96	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	7.24	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	6.28	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	6.03	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	7.31	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	6.13	13	PASS

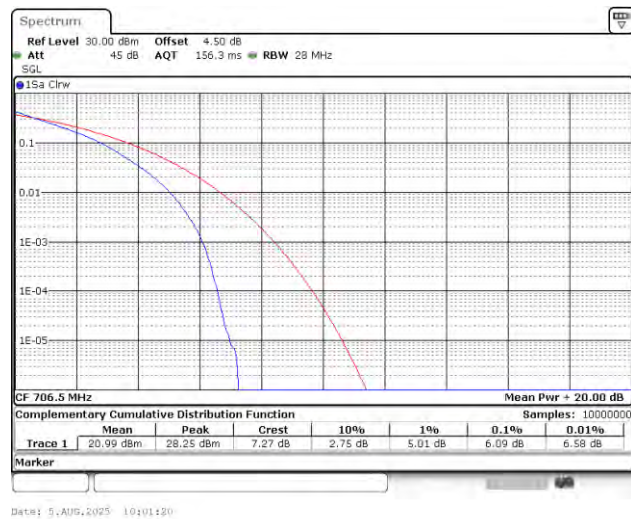
Test Graphs



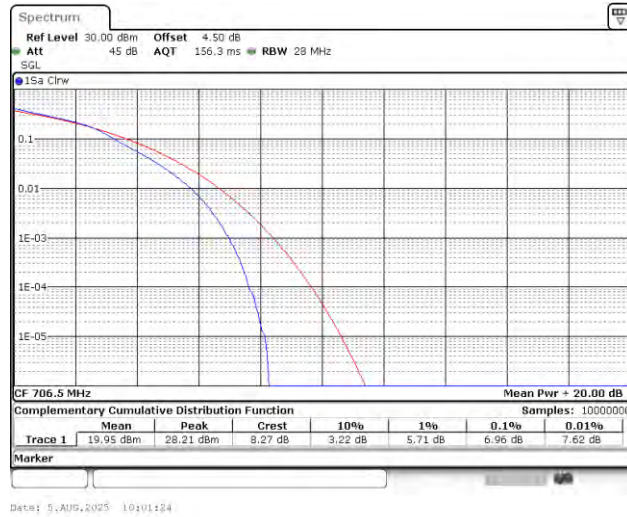
Band17-5MHz-QPSK-23755-1RB#0-PASS



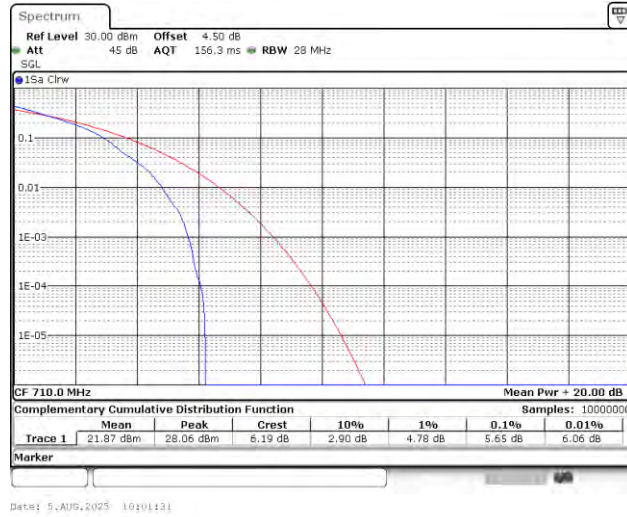
Band17-5MHz-16QAM-23755-1RB#0-PASS



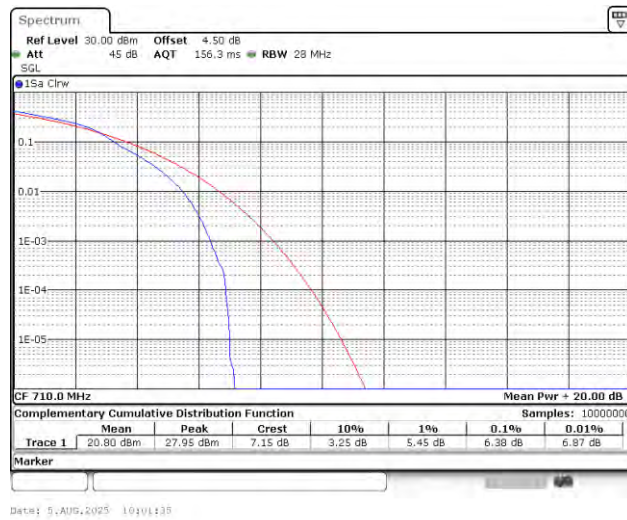
Band17-5MHz-QPSK-23755-25RB#0-PASS



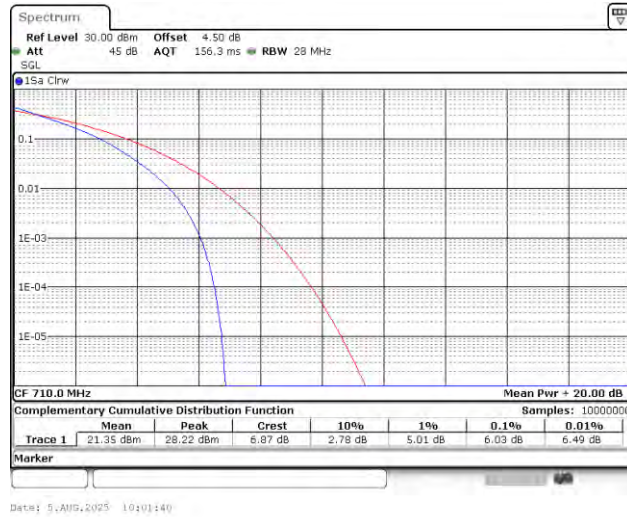
Band17-5MHz-16QAM-23755-25RB#0-PASS



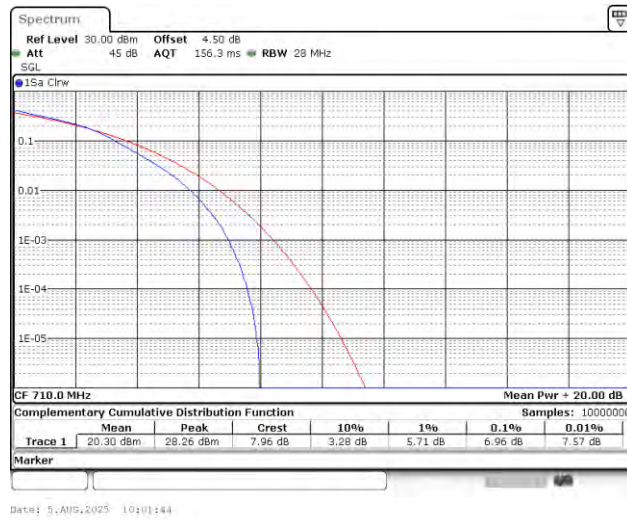
Band17-5MHz-QPSK-23790-1RB#0-PASS



Band17-5MHz-16QAM-23790-1RB#0-PASS



Band17-5MHz-QPSK-23790-25RB#0-PASS



Band17-5MHz-16QAM-23790-25RB#0-PASS



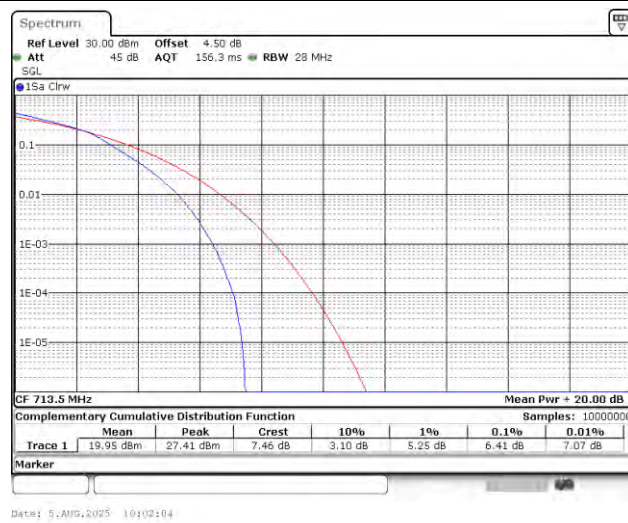
Band17-5MHz-QPSK-23825-1RB#0-PASS



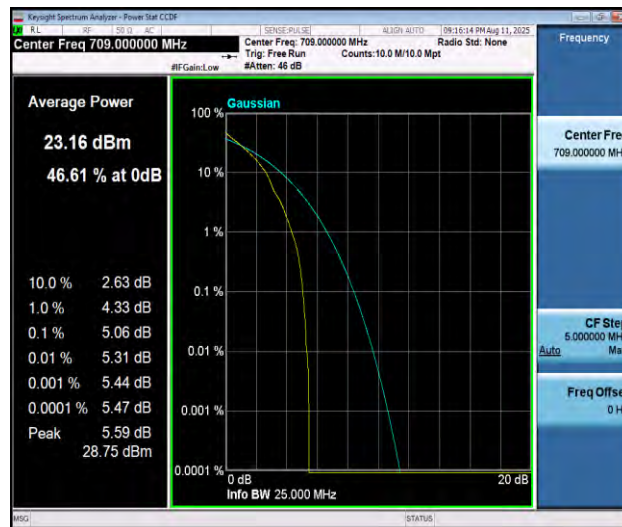
Band17-5MHz-16QAM-23825-1RB#0-PASS



Band17-5MHz-QPSK-23825-25RB#0-PASS



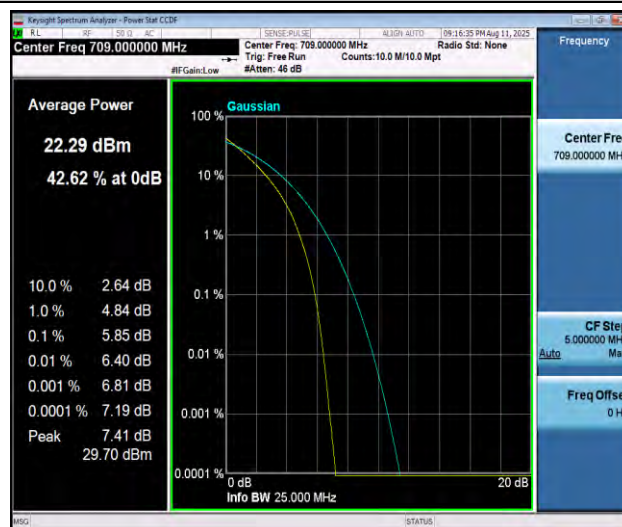
Band17-5MHz-16QAM-23825-25RB#0-PASS



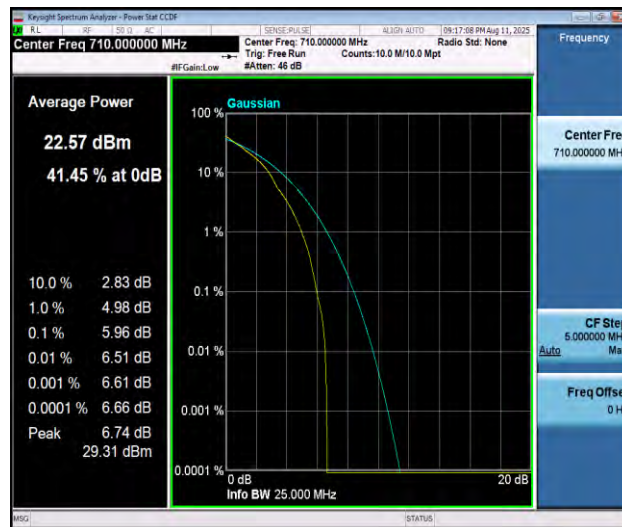
Band17-10MHz-QPSK-23780-1RB#0-PASS



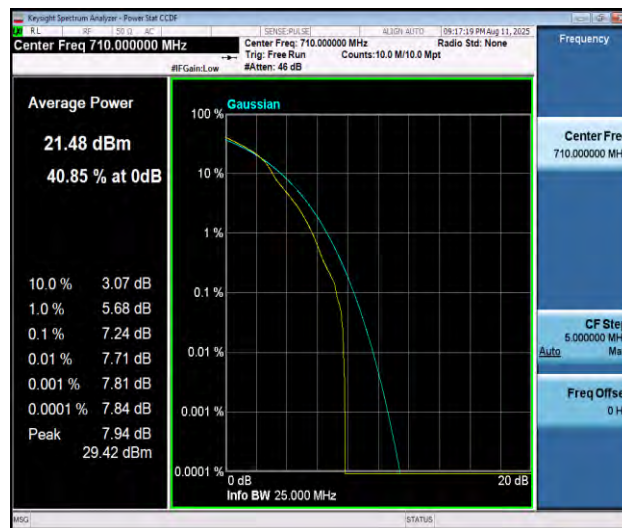
Band17-10MHz-16QAM-23780-1RB#0-PASS



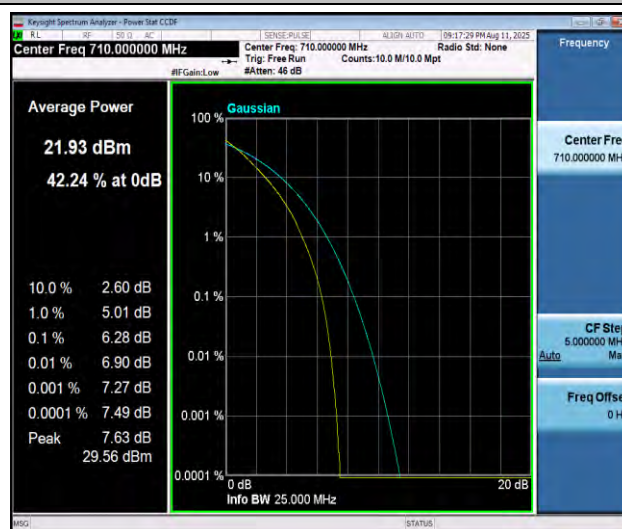
Band17-10MHz-QPSK-23780-50RB#0-PASS



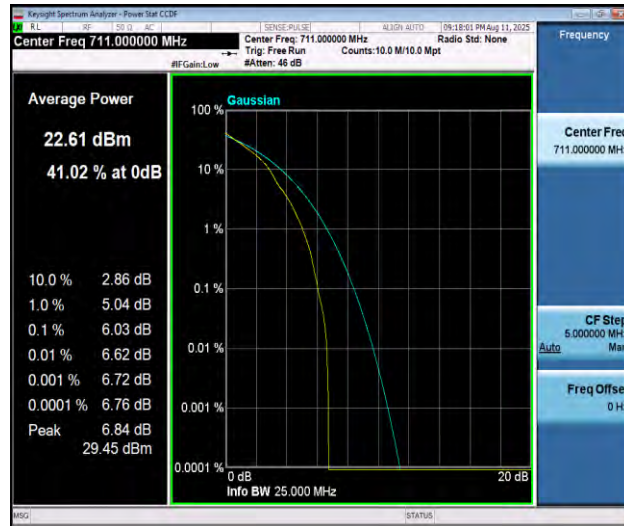
Band17-10MHz-QPSK-23790-1RB#0-PASS



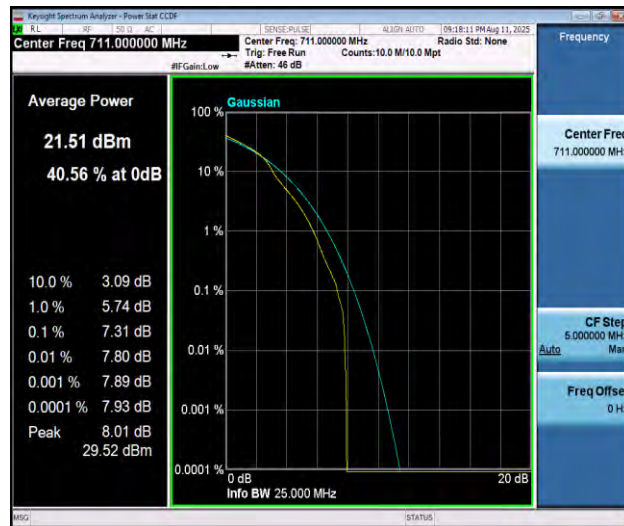
Band17-10MHz-16QAM-23790-1RB#0-PASS



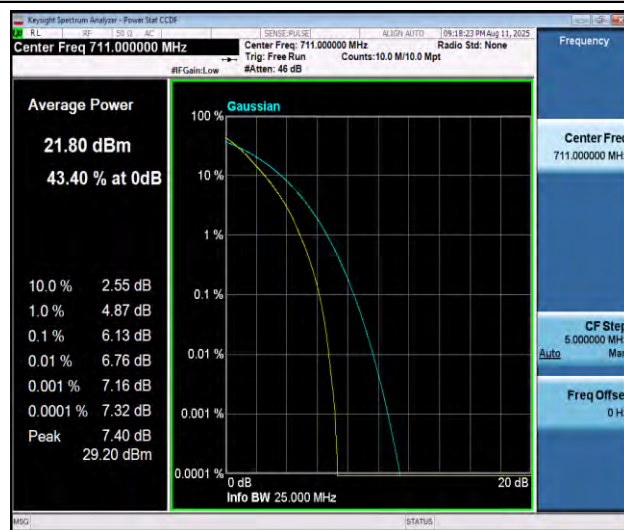
Band17-10MHz-QPSK-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-1RB#0-PASS



Band17-10MHz-16QAM-23800-1RB#0-PASS



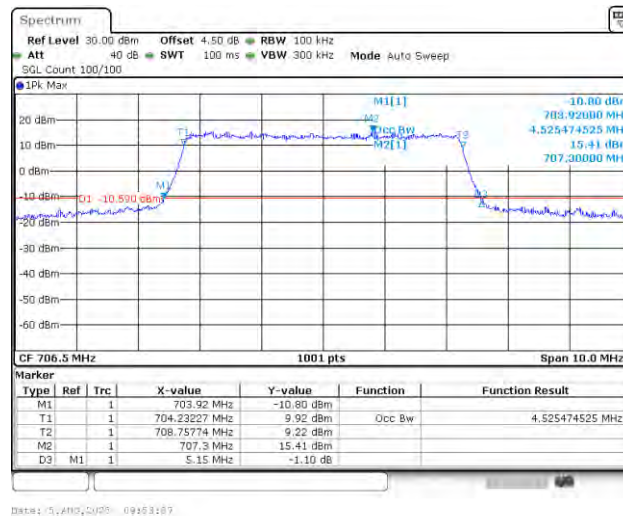
Band17-10MHz-QPSK-23800-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

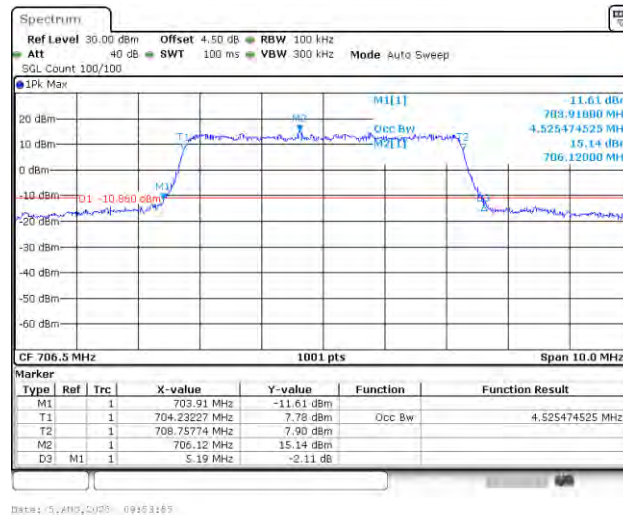
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.525	5.15	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.525	5.19	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.505	5.13	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.515	5.18	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.496	5.15	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.505	5.16	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.018	9.97	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.985	9.90	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.985	9.90	PASS

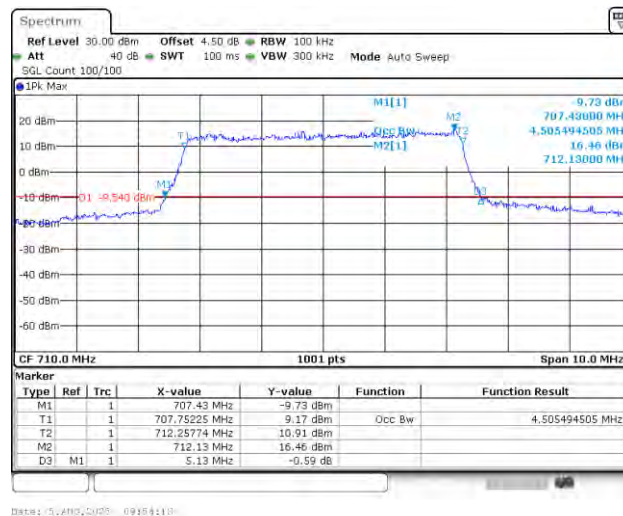
Test Graphs



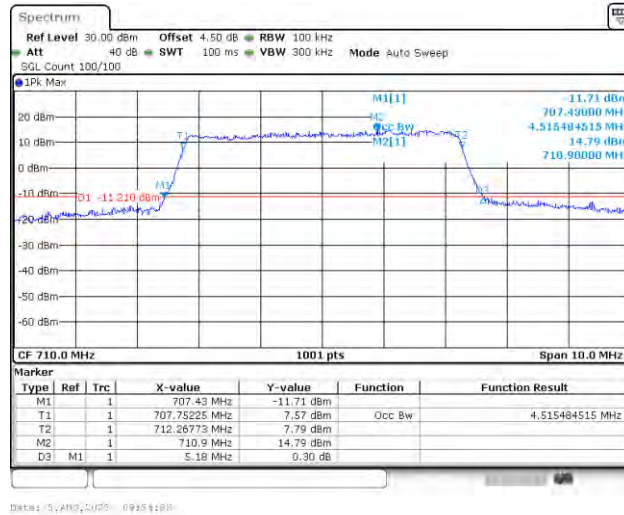
Band17-5MHz-QPSK-23755-25RB#0-PASS



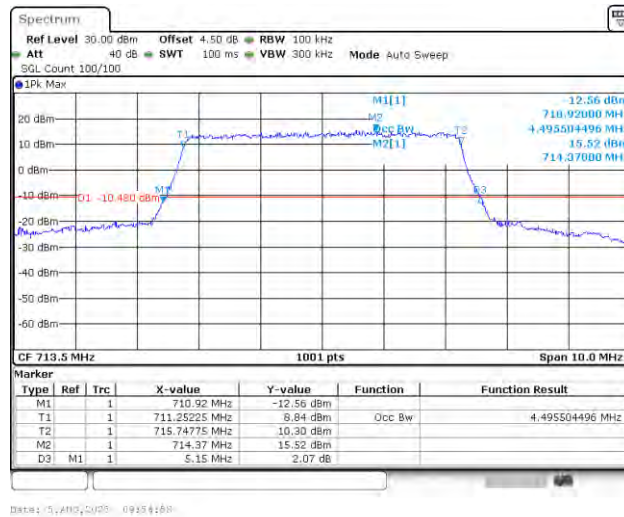
Band17-5MHz-16QAM-23755-25RB#0-PASS



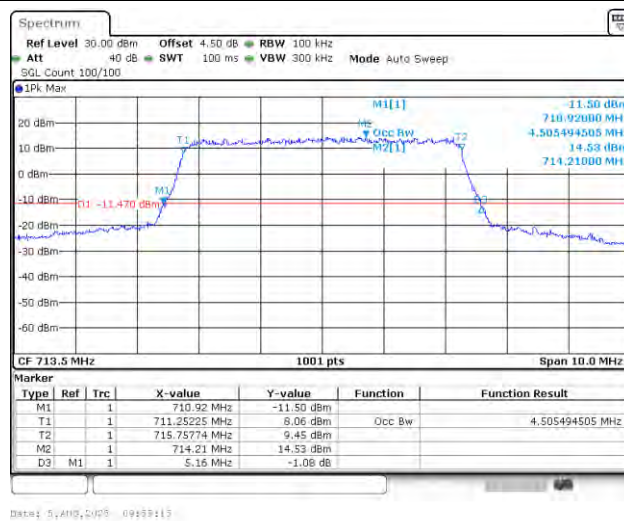
Band17-5MHz-QPSK-23790-25RB#0-PASS



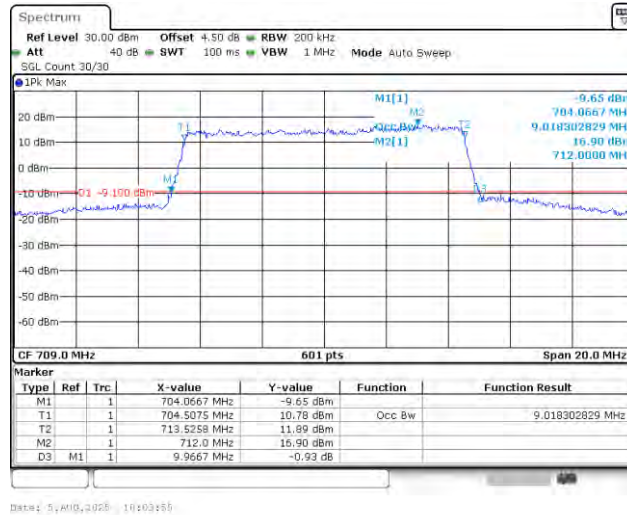
Band17-5MHz-16QAM-23790-25RB#0-PASS



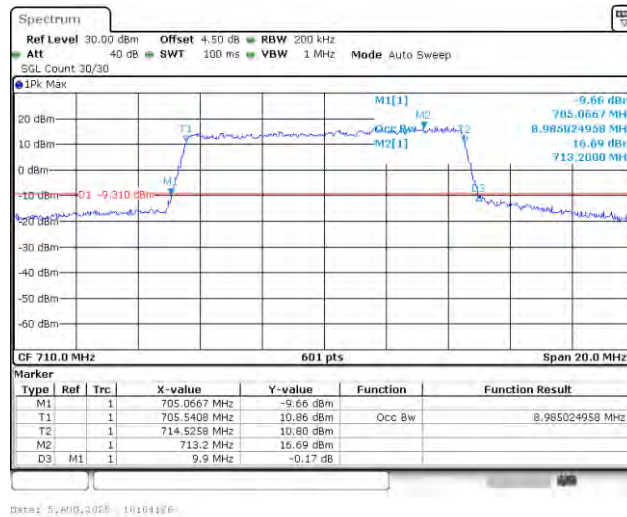
Band17-5MHz-QPSK-23825-25RB#0-PASS



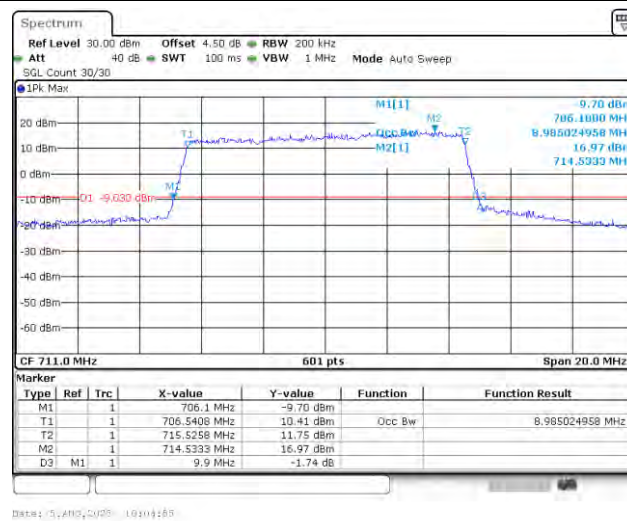
Band17-5MHz-16QAM-23825-25RB#0-PASS



Band17-10MHz-QPSK-23780-50RB#0-PASS



Band17-10MHz-QPSK-23790-50RB#0-PASS



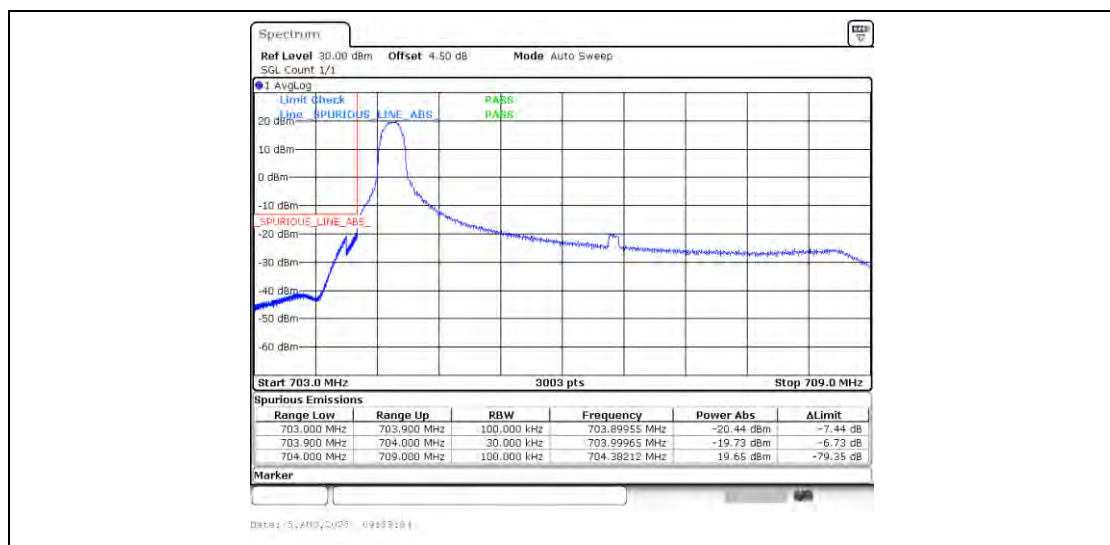
Band17-10MHz-QPSK-23800-50RB#0-PASS

Appendix D: Band Edge

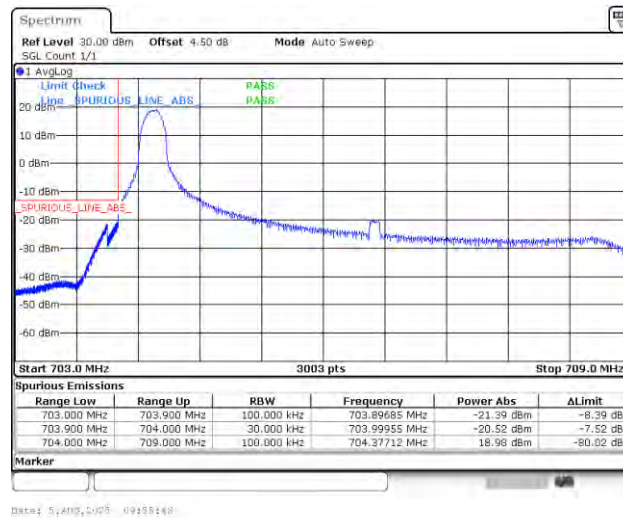
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-19.73	PASS
Band17	5MHz	16QAM	23755	1RB#0	-20.52	PASS
Band17	5MHz	QPSK	23755	1RB#24	-34.01	PASS
Band17	5MHz	16QAM	23755	1RB#24	-35.00	PASS
Band17	5MHz	QPSK	23755	25RB#0	-22.55	PASS
Band17	5MHz	16QAM	23755	25RB#0	-23.52	PASS
Band17	5MHz	QPSK	23825	1RB#0	-33.51	PASS
Band17	5MHz	16QAM	23825	1RB#0	-35.56	PASS
Band17	5MHz	QPSK	23825	1RB#24	-19.83	PASS
Band17	5MHz	16QAM	23825	1RB#24	-20.28	PASS
Band17	5MHz	QPSK	23825	25RB#0	-27.39	PASS
Band17	5MHz	16QAM	23825	25RB#0	-27.70	PASS
Band17	10MHz	QPSK	23780	1RB#0	-30.83	PASS
Band17	10MHz	16QAM	23780	1RB#0	-31.25	PASS
Band17	10MHz	QPSK	23780	1RB#49	-47.18	PASS
Band17	10MHz	16QAM	23780	1RB#49	-46.73	PASS
Band17	10MHz	QPSK	23780	50RB#0	-26.91	PASS
Band17	10MHz	QPSK	23800	1RB#0	-44.92	PASS
Band17	10MHz	16QAM	23800	1RB#0	-45.13	PASS
Band17	10MHz	QPSK	23800	1RB#49	-31.17	PASS
Band17	10MHz	16QAM	23800	1RB#49	-31.17	PASS
Band17	10MHz	QPSK	23800	50RB#0	-25.27	PASS

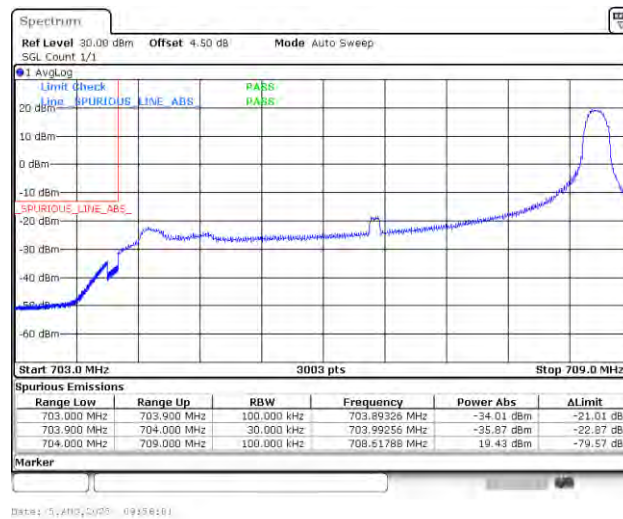
Test Graphs



Band17_5MHz_QPSK_23755_1RB#0



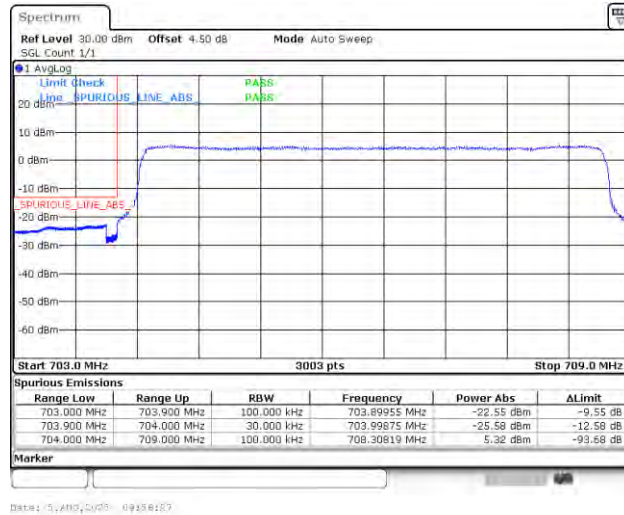
Band17_5MHz_16QAM_23755_1RB#0



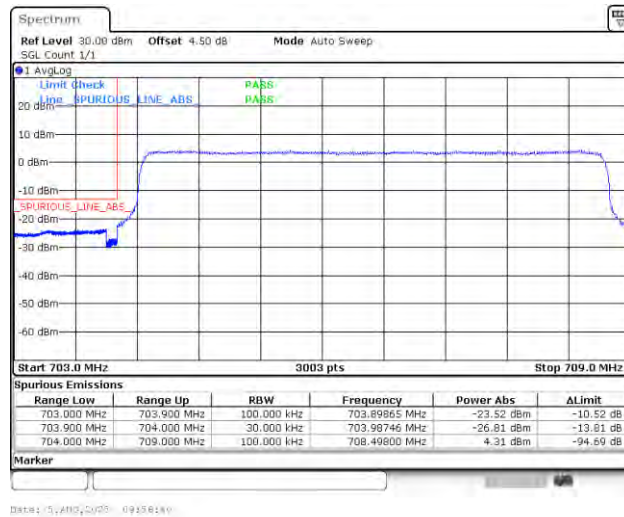
Band17_5MHz_QPSK_23755_1RB#24



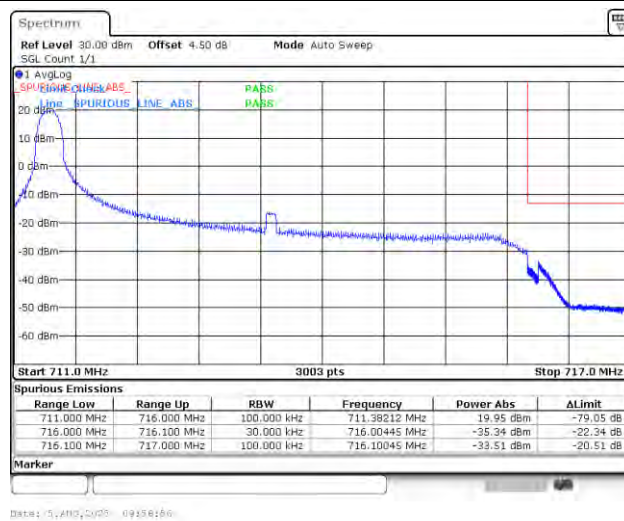
Band17_5MHz_16QAM_23755_1RB#24



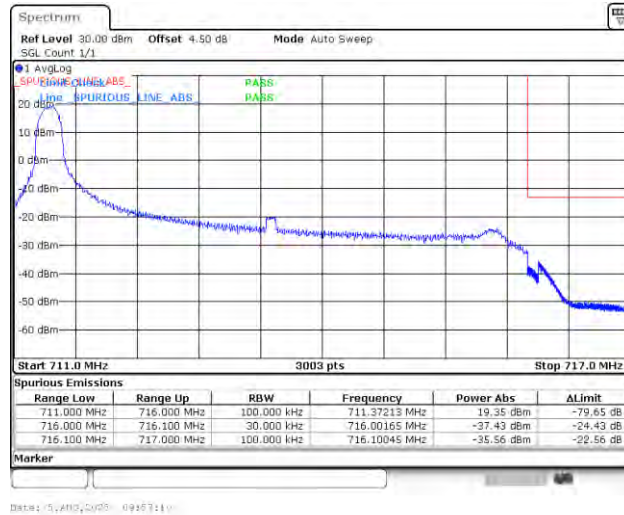
Band17_5MHz_QPSK_23755_25RB#0



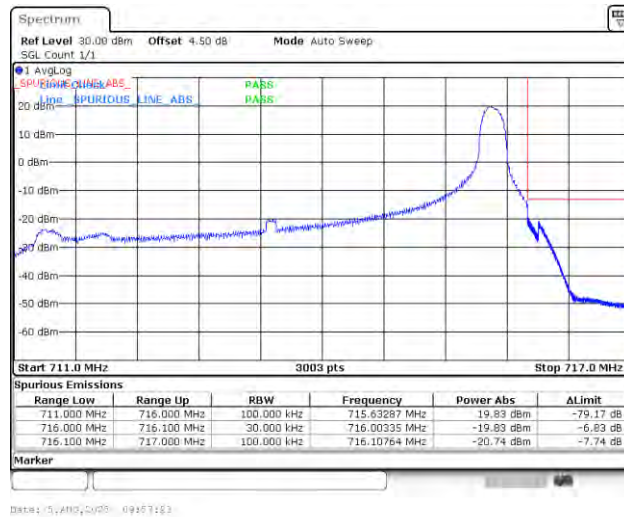
Band17_5MHz_16QAM_23755_25RB#0



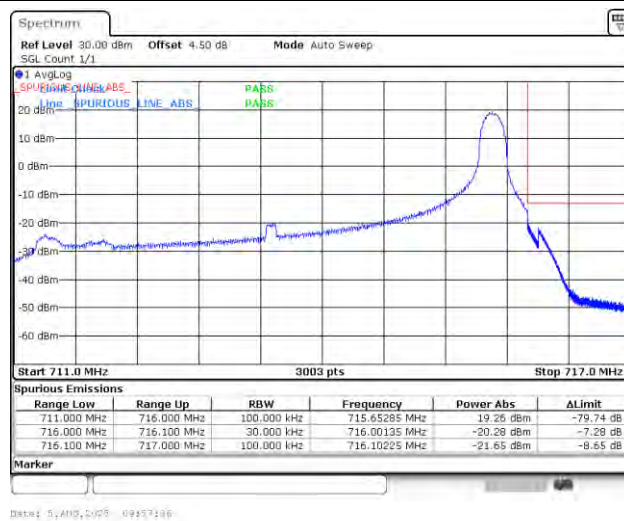
Band17_5MHz_QPSK_23825_1RB#0



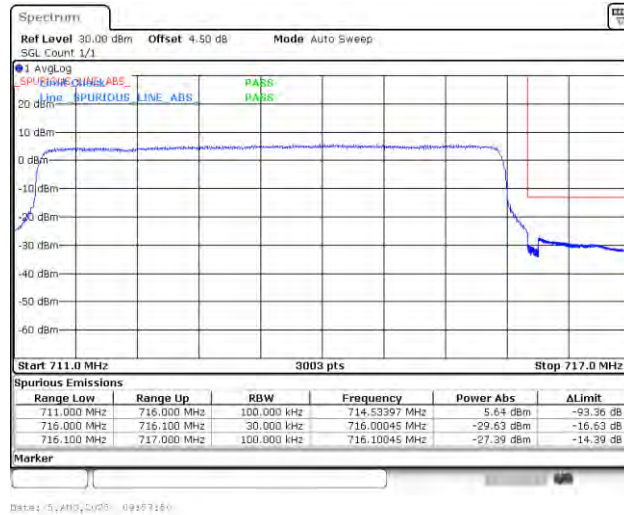
Band17_5MHz_16QAM_23825_1RB#0



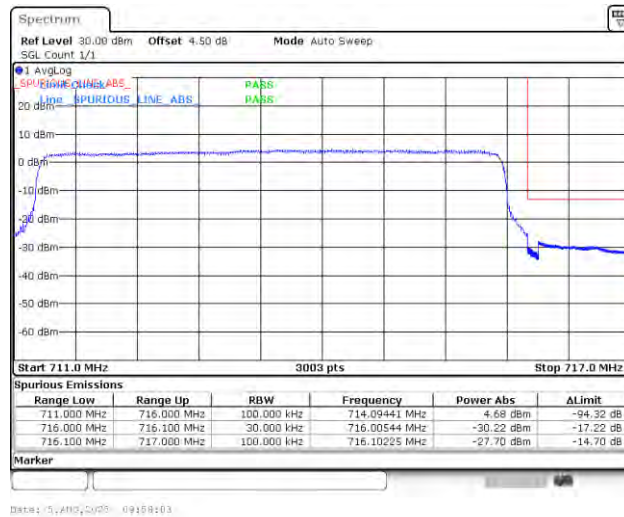
Band17_5MHz_QPSK_23825_1RB#24



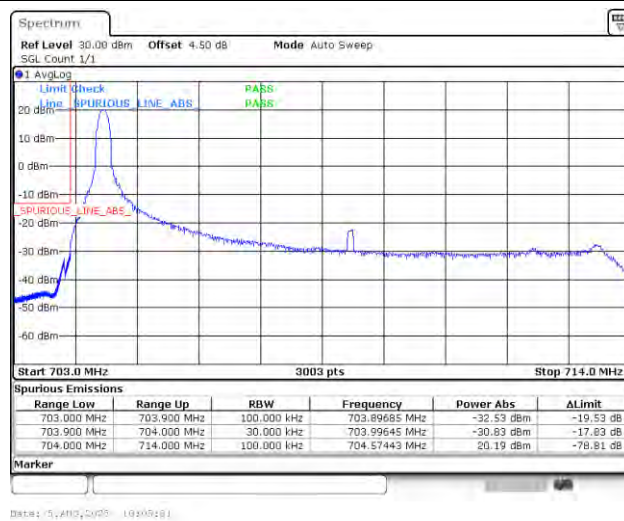
Band17_5MHz_16QAM_23825_1RB#24



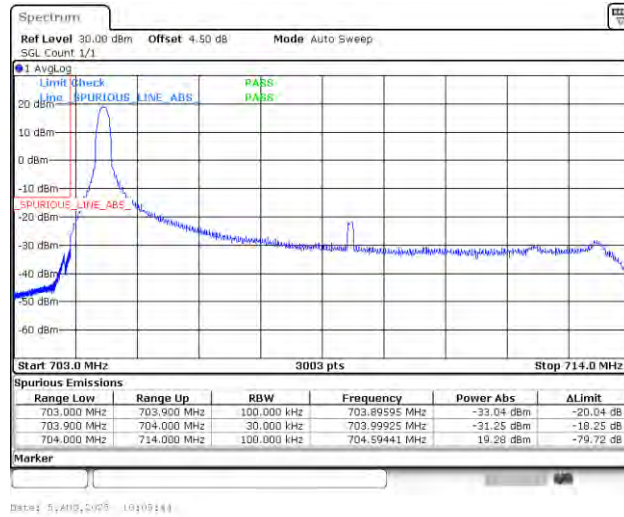
Band17_5MHz_QPSK_23825_25RB#0



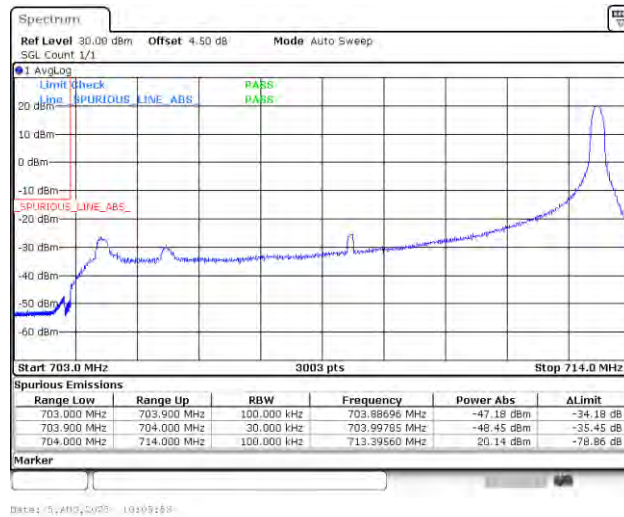
Band17_5MHz_16QAM_23825_25RB#0



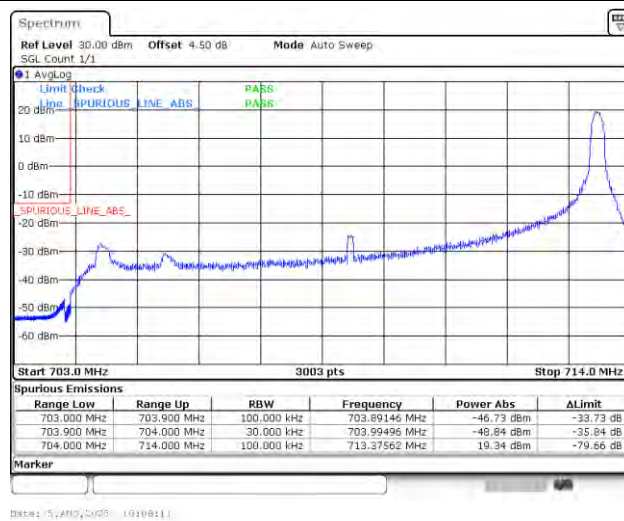
Band17_10MHz_QPSK_23780_1RB#0



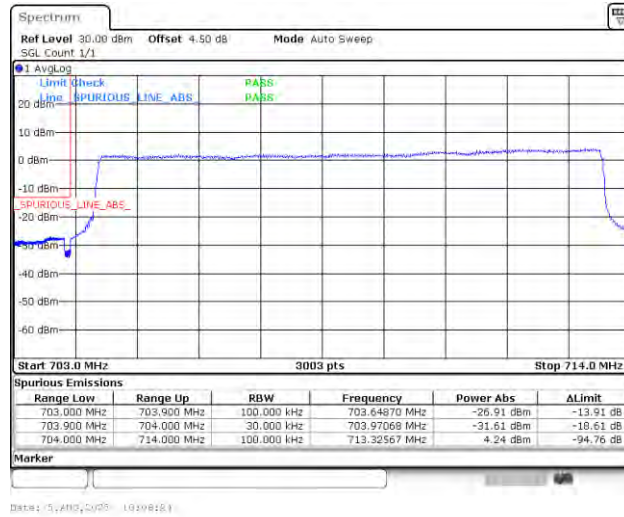
Band17_10MHz_16QAM_23780_1RB#0



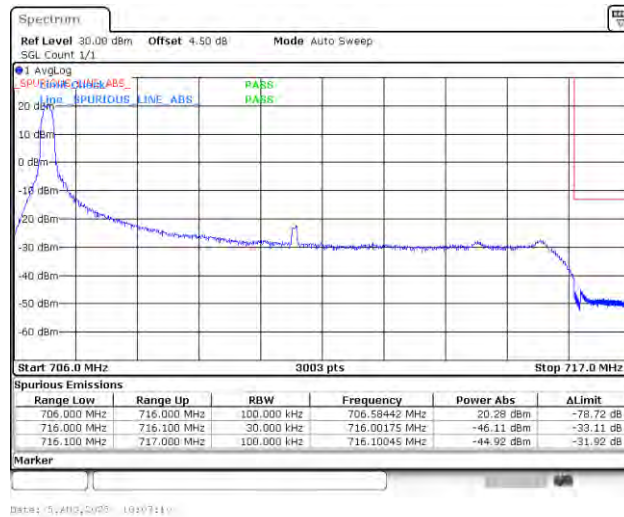
Band17_10MHz_QPSK_23780_1RB#49



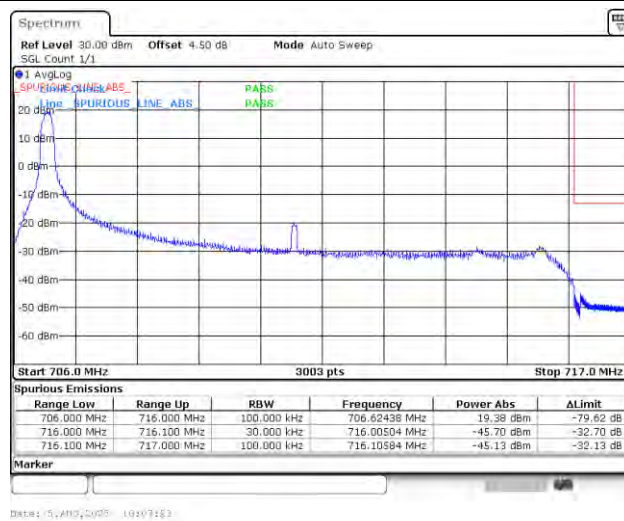
Band17_10MHz_16QAM_23780_1RB#49



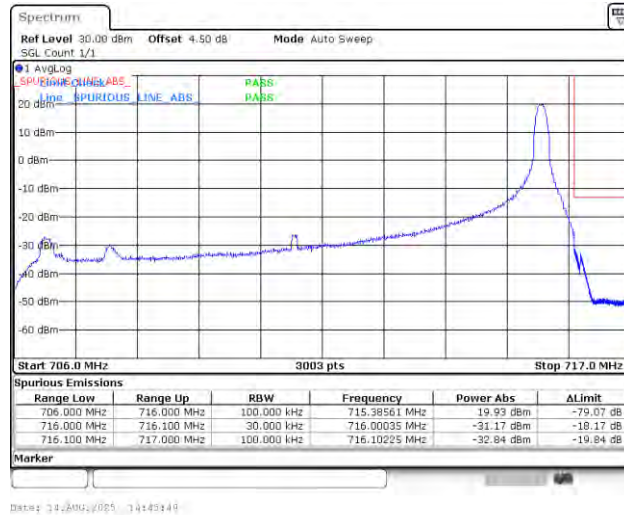
Band17_10MHz_QPSK_23780_50RB#0



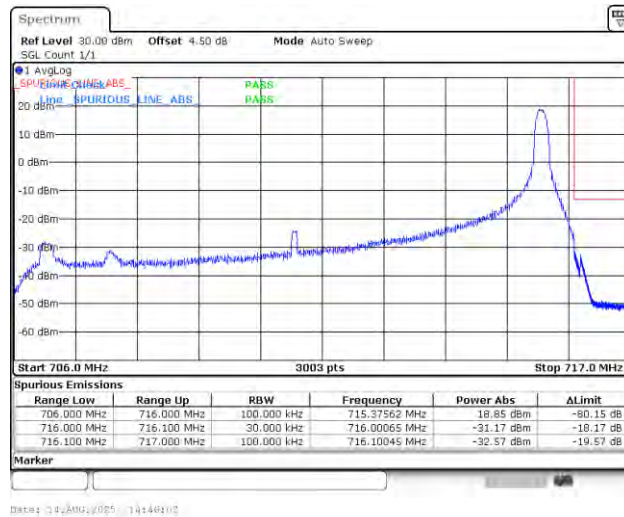
Band17_10MHz_QPSK_23800_1RB#0



Band17_10MHz_16QAM_23800_1RB#0



Band17_10MHz_QPSK_23800_1RB#49



Band17_10MHz_16QAM_23800_1RB#49



Band17_10MHz_QPSK_23800_50RB#0

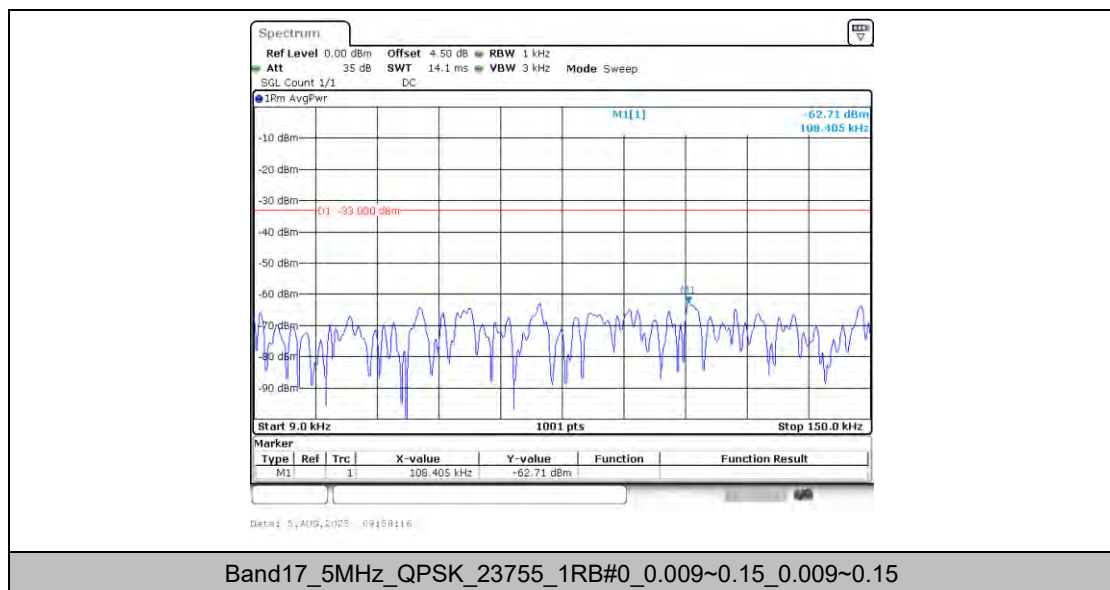
Appendix E: Conducted Spurious Emission

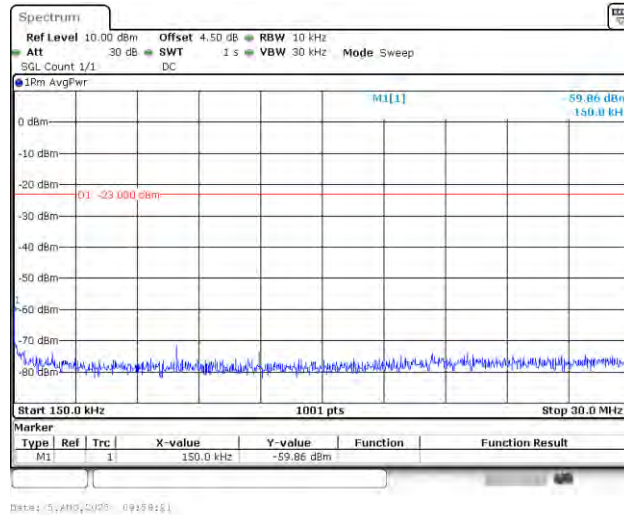
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-62.71	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-59.86	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-61.87	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-41.22	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-48.35	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-62.35	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-61.38	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-60.30	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-42.07	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-48.36	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-63.32	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-60.92	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-55.17	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-41.98	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-48.49	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-62.38	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-60.25	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-60.28	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-43.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-48.47	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-60.69	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-60.22	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-58.90	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-40.48	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-48.48	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-62.86	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-62.07	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-60.67	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-42.25	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-48.47	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-63.22	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-59.56	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-64.13	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-39.56	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-48.32	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-63.45	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-62.32	PASS

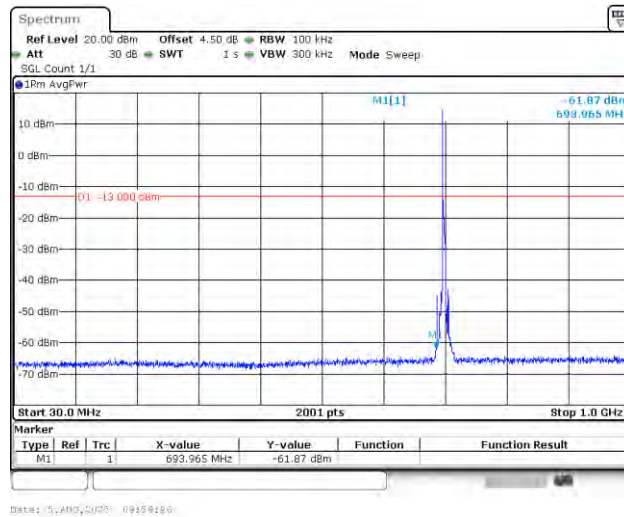
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-64.36	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-53.26	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-48.32	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-69.67	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-71.89	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-64.08	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-53.16	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-48.43	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-68.70	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-72.56	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-64.07	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-53.14	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-48.34	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-66.85	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-71.53	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-63.89	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-53.26	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-48.35	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-71.42	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-71.34	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-64.29	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-53.13	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-48.41	PASS

Test Graphs

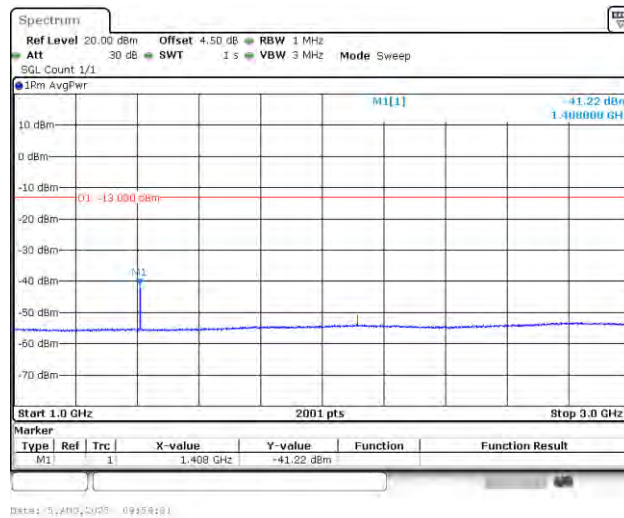




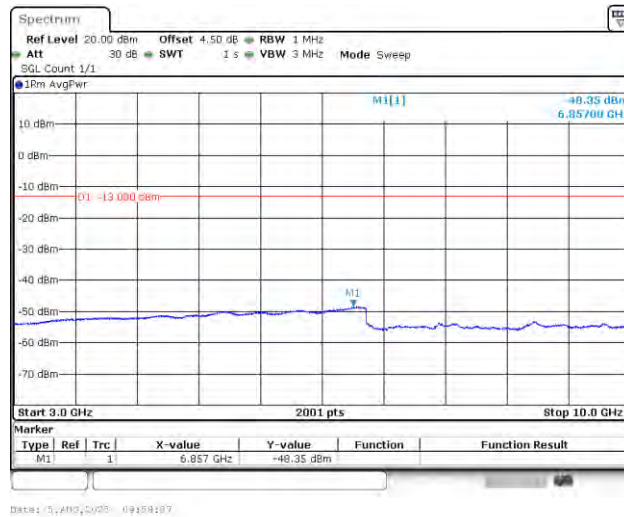
Band17_5MHz_QPSK_23755_1RB#0_0.15~30_0.15~30



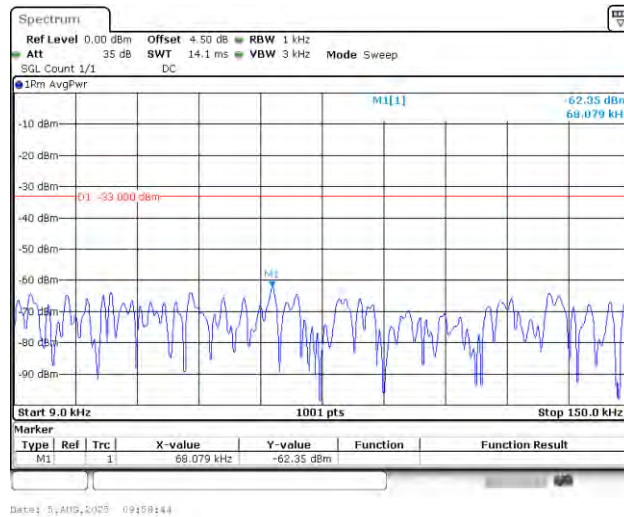
Band17_5MHz_QPSK_23755_1RB#0_30~1000_30~1000



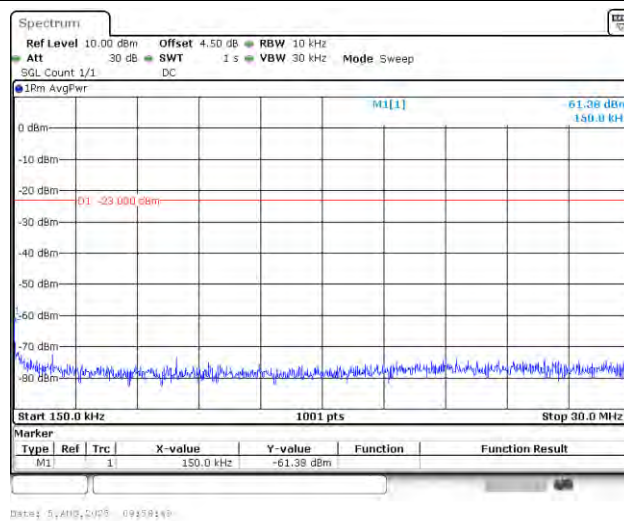
Band17_5MHz_QPSK_23755_1RB#0_1000~3000_1000~3000



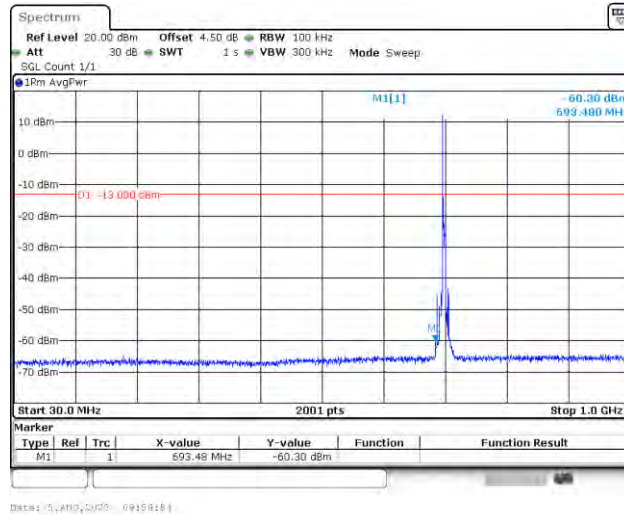
Band17_5MHz_QPSK_23755_1RB#0_3000~10000_3000~10000



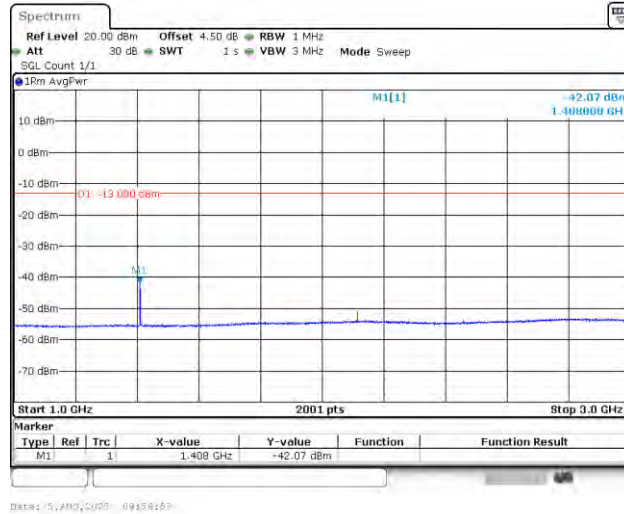
Band17_5MHz_16QAM_23755_1RB#0_0.009~0.15_0.009~0.15



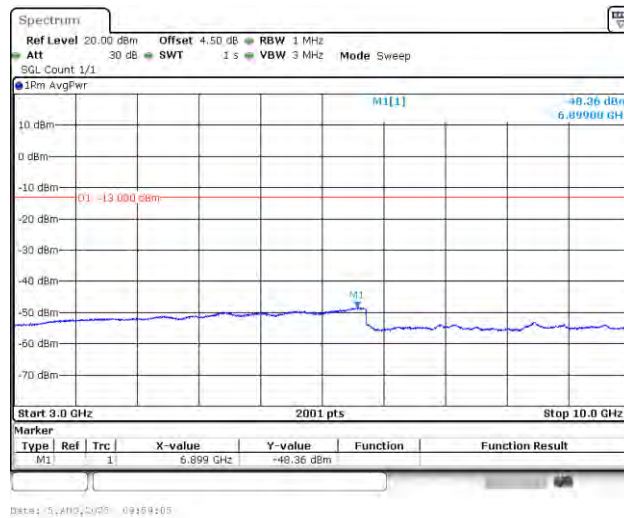
Band17_5MHz_16QAM_23755_1RB#0_0.15~30_0.15~30



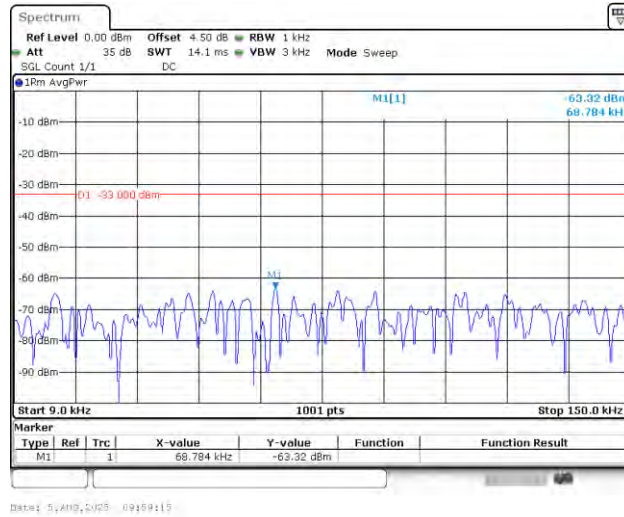
Band17_5MHz_16QAM_23755_1RB#0_30~1000_30~1000



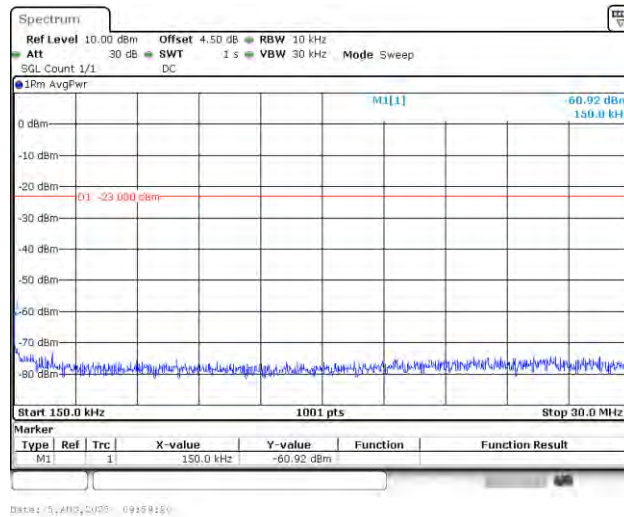
Band17_5MHz_16QAM_23755_1RB#0_1000~3000_1000~3000



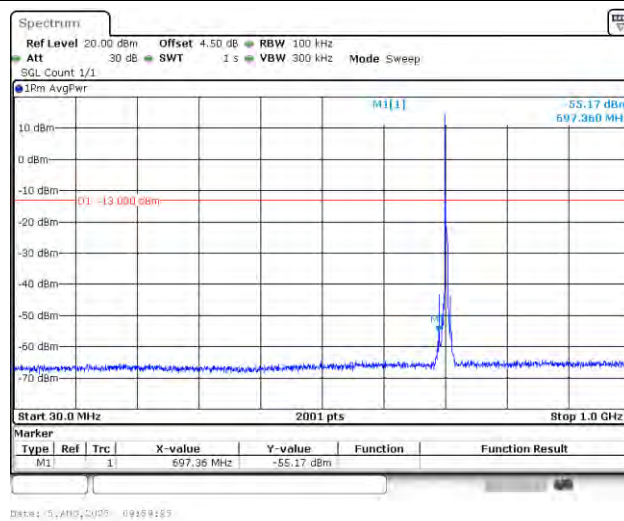
Band17_5MHz_16QAM_23755_1RB#0_3000~10000_3000~10000



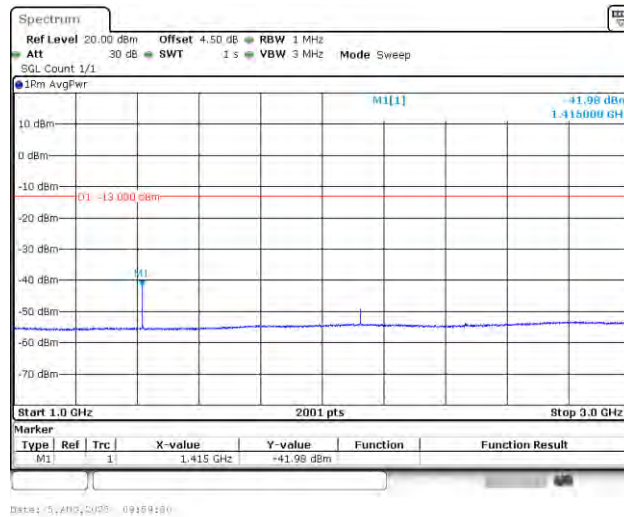
Band17_5MHz_QPSK_23790_1RB#0_0.009~0.15_0.009~0.15



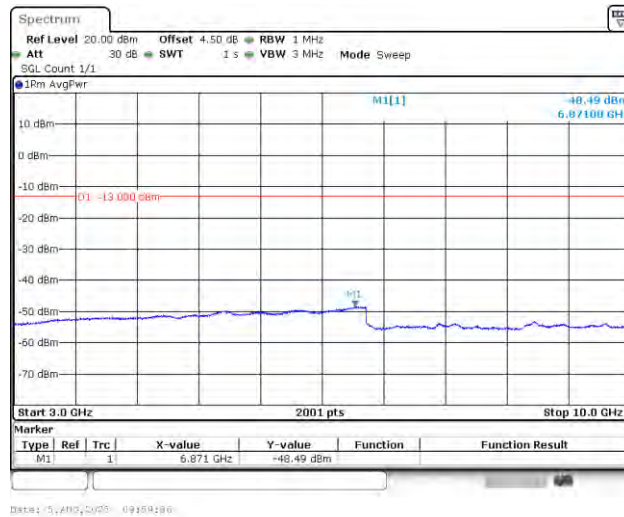
Band17_5MHz_QPSK_23790_1RB#0_0.15~30_0.15~30



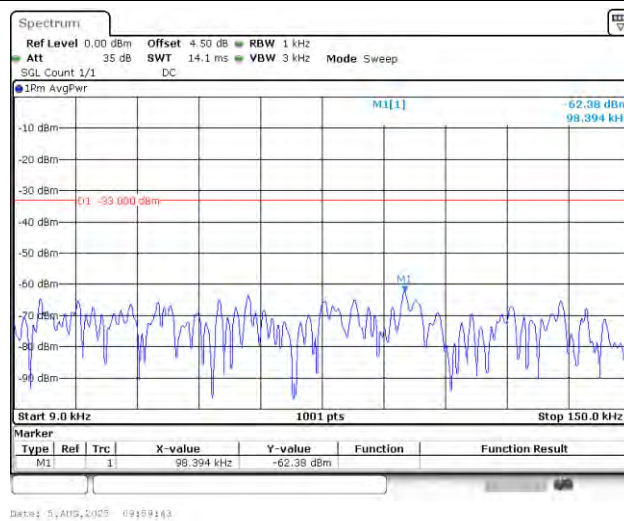
Band17_5MHz_QPSK_23790_1RB#0_30~1000_30~1000



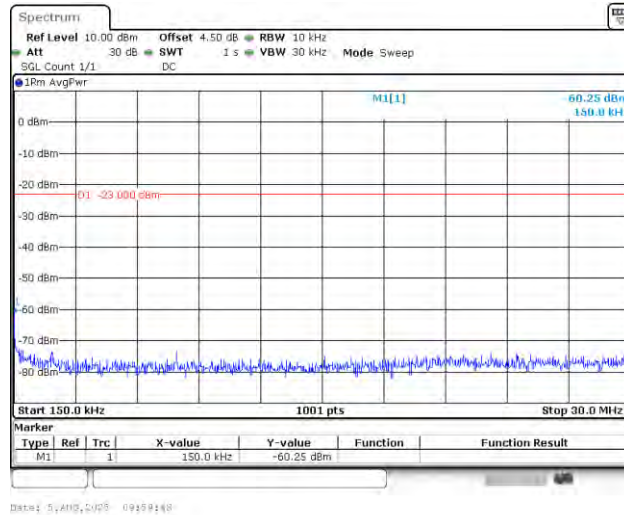
Band17_5MHz_QPSK_23790_1RB#0_1000~3000_1000~3000



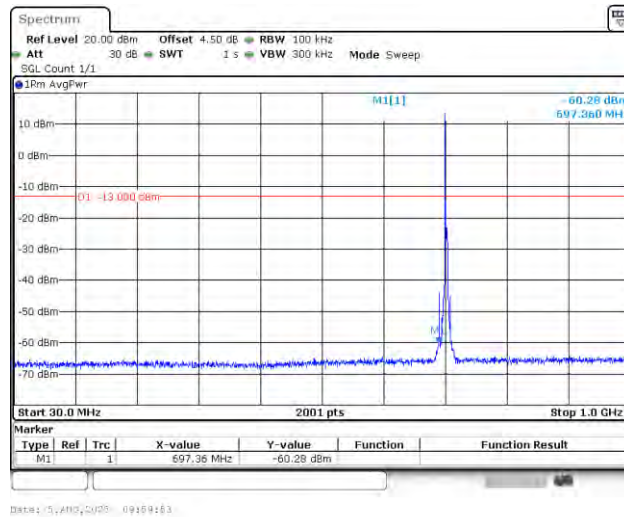
Band17_5MHz_QPSK_23790_1RB#0_3000~10000_3000~10000



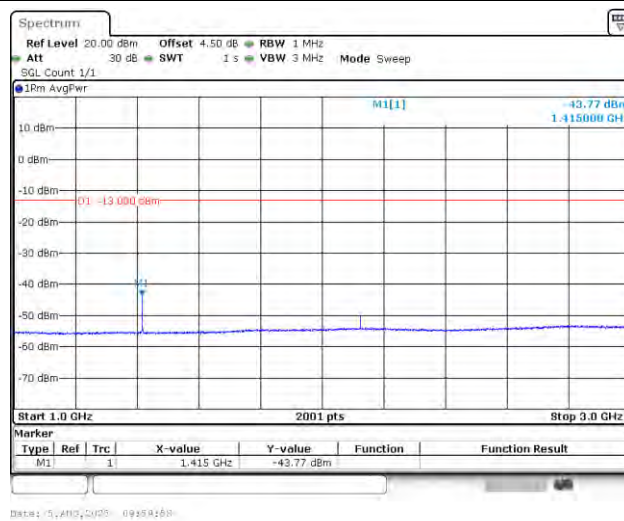
Band17_5MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15



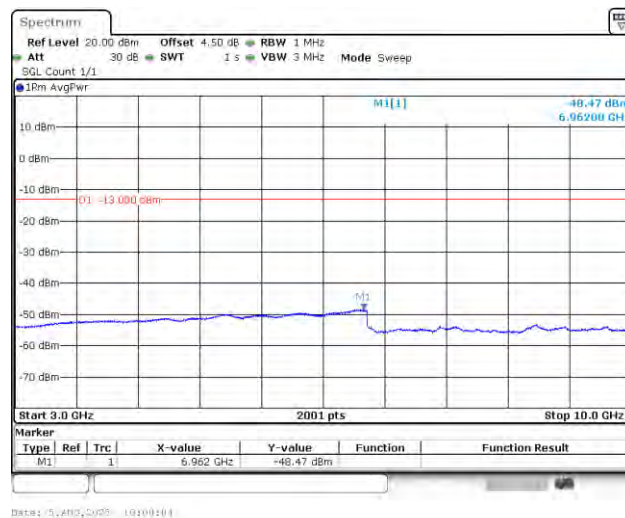
Band17_5MHz_16QAM_23790_1RB#0_0.15~30_0.15~30



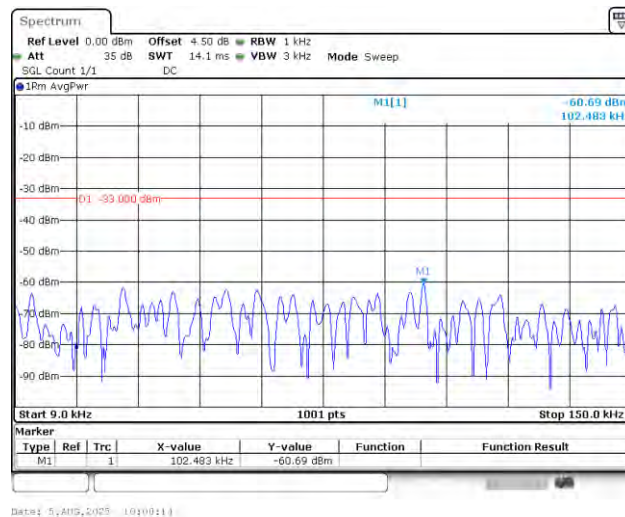
Band17_5MHz_16QAM_23790_1RB#0_30~1000_30~1000



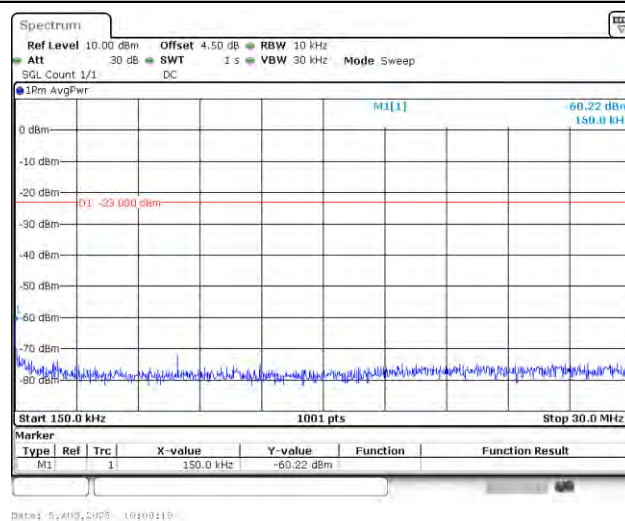
Band17_5MHz_16QAM_23790_1RB#0_1000~3000_1000~3000



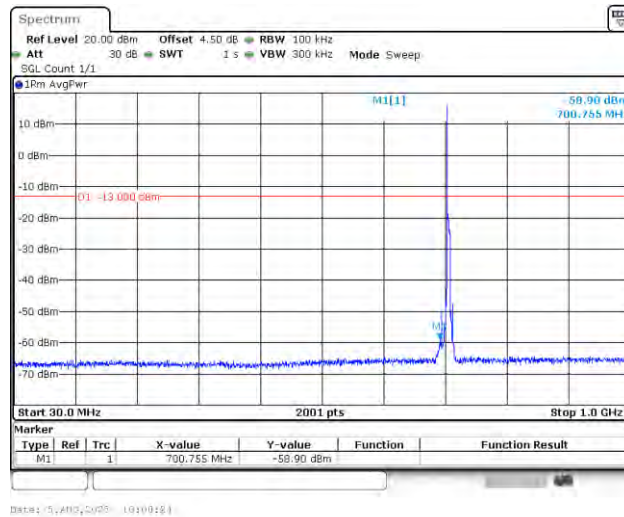
Band17_5MHz_16QAM_23790_1RB#0_3000~10000_3000~10000



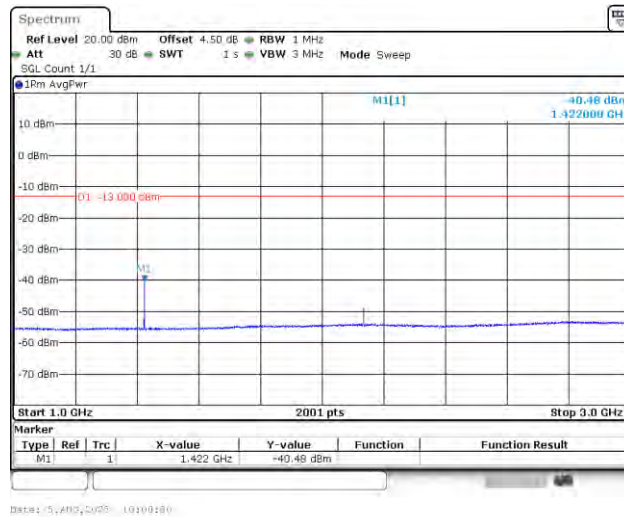
Band17_5MHz_QPSK_23825_1RB#0_0.009~0.15_0.009~0.15



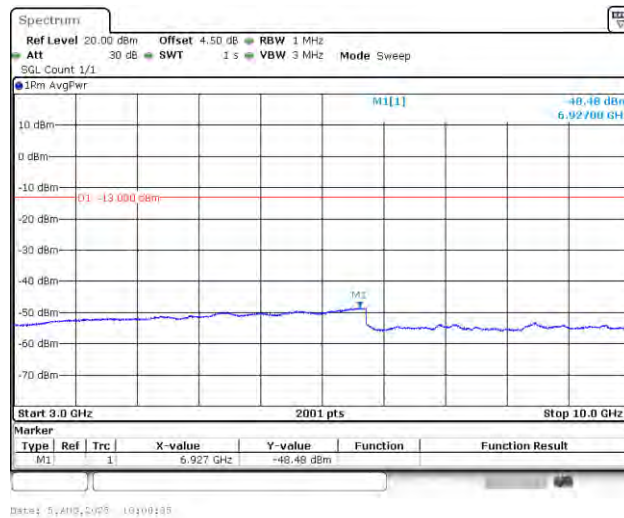
Band17_5MHz_QPSK_23825_1RB#0_0.15~30_0.15~30



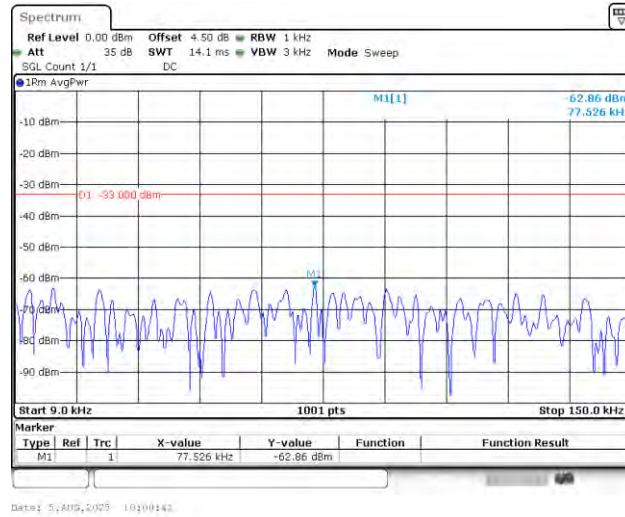
Band17_5MHz_QPSK_23825_1RB#0_30~1000_30~1000



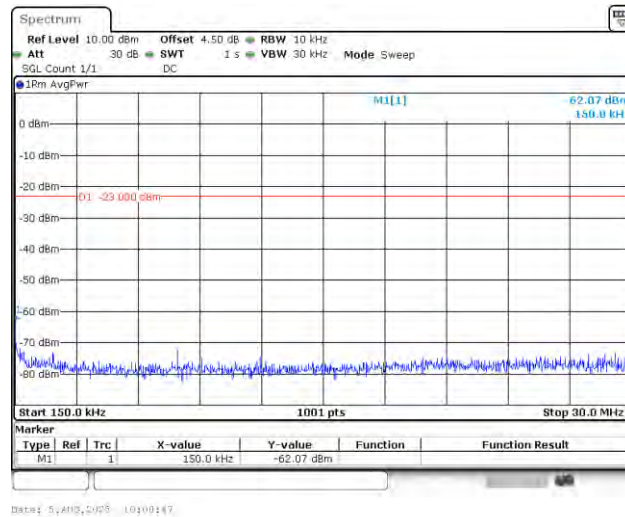
Band17_5MHz_QPSK_23825_1RB#0_1000~3000_1000~3000



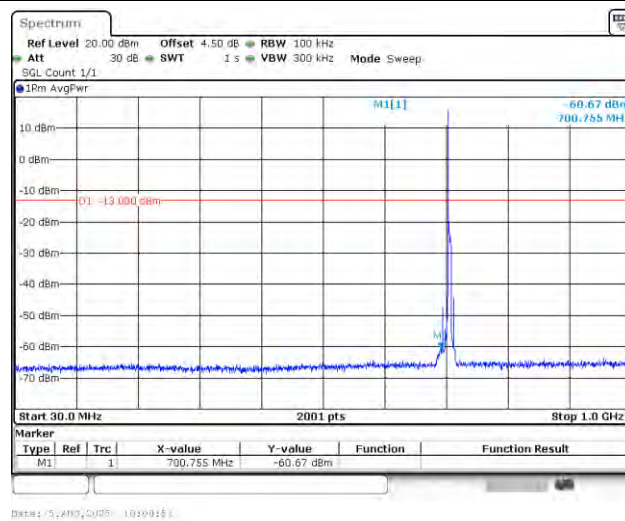
Band17_5MHz_QPSK_23825_1RB#0_3000~10000_3000~10000



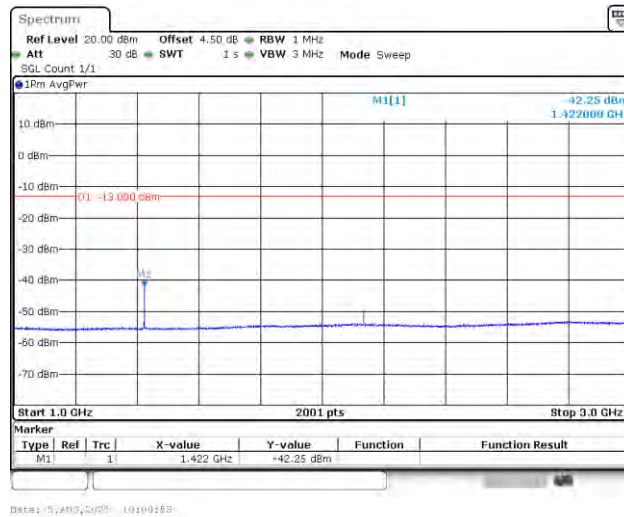
Band17_5MHz_16QAM_23825_1RB#0_0.009~0.15_0.009~0.15



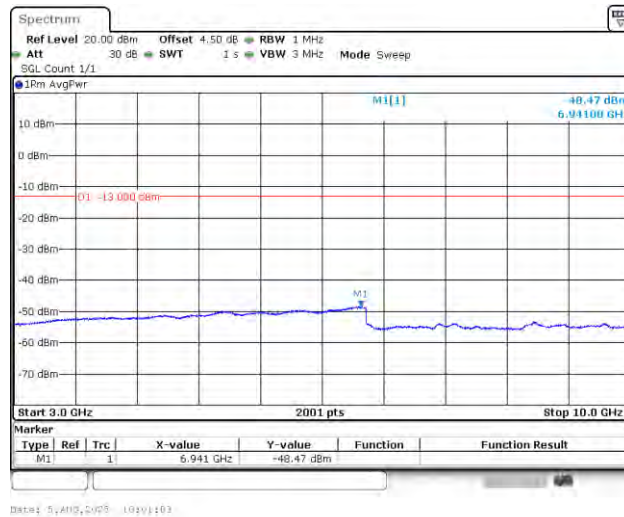
Band17_5MHz_16QAM_23825_1RB#0_0.15~30_0.15~30



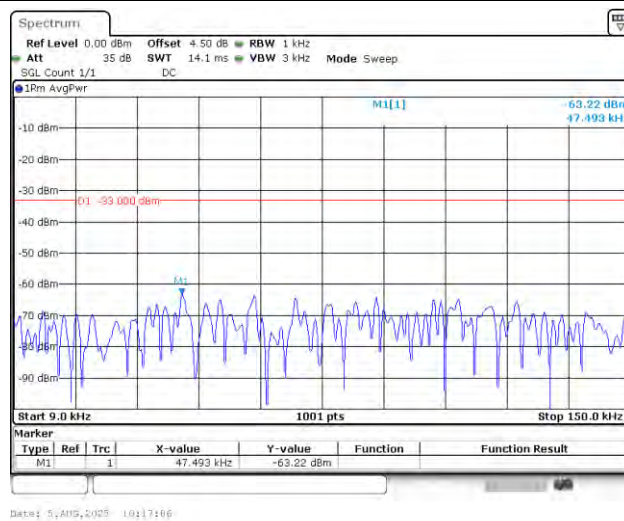
Band17_5MHz_16QAM_23825_1RB#0_30~1000_30~1000



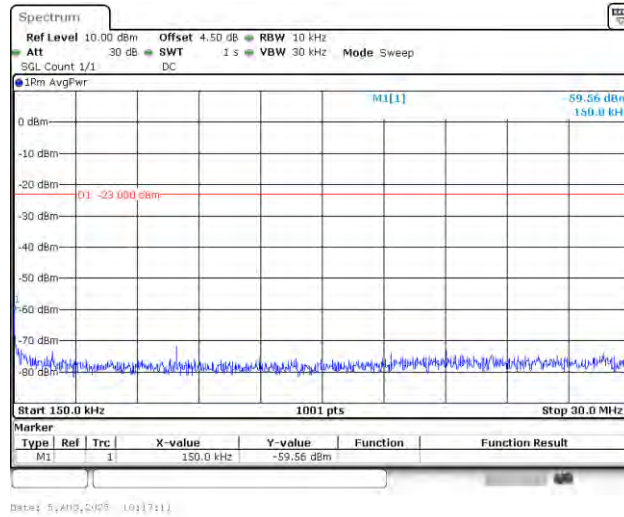
Band17_5MHz_16QAM_23825_1RB#0_1000~3000_1000~3000



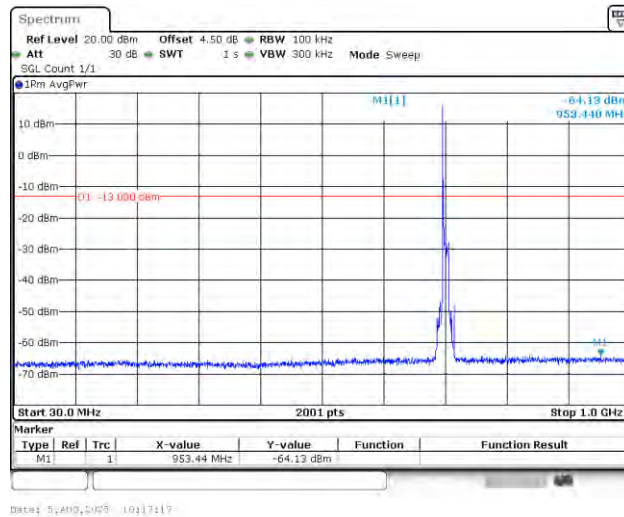
Band17_5MHz_16QAM_23825_1RB#0_3000~10000_3000~10000



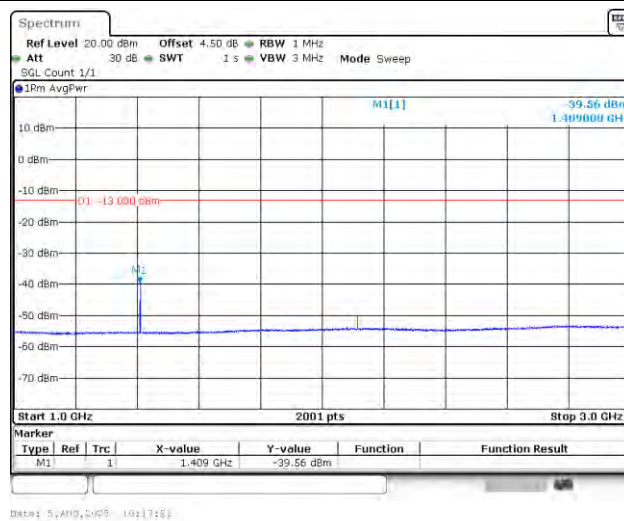
Band17_10MHz_QPSK_23780_1RB#0_0.009~0.15_0.009~0.15



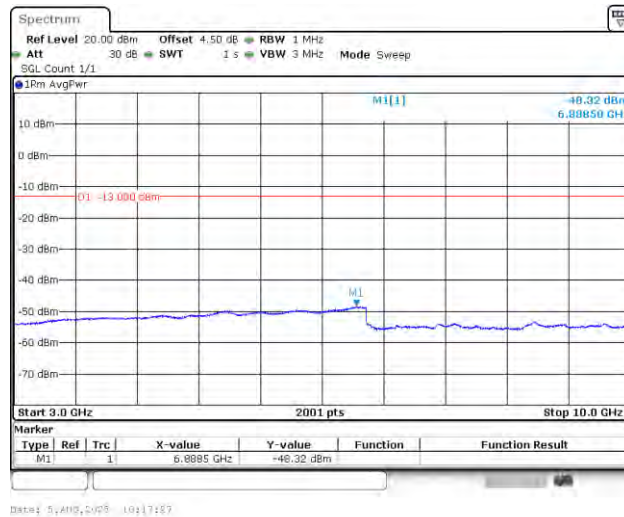
Band17_10MHz_QPSK_23780_1RB#0_0.15~30_0.15~30



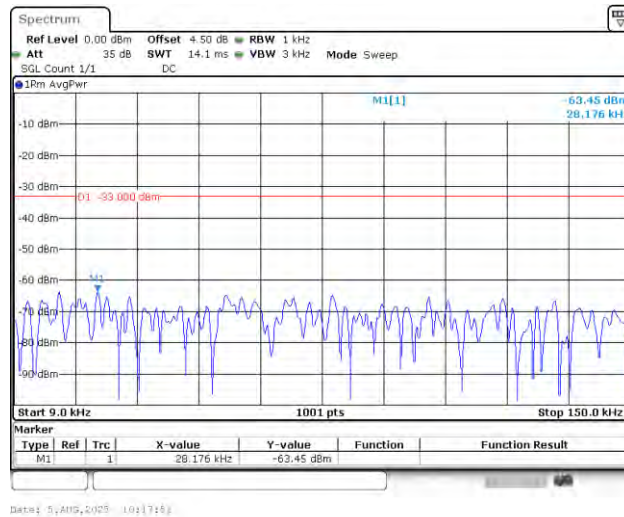
Band17_10MHz_QPSK_23780_1RB#0_30~1000_30~1000



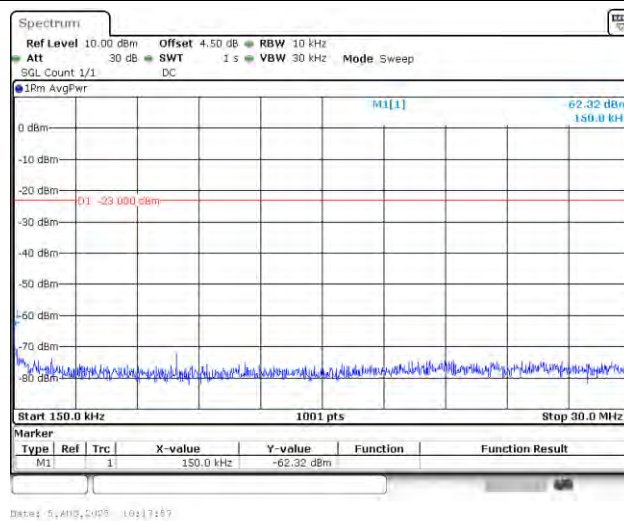
Band17_10MHz_QPSK_23780_1RB#0_1000~3000_1000~3000



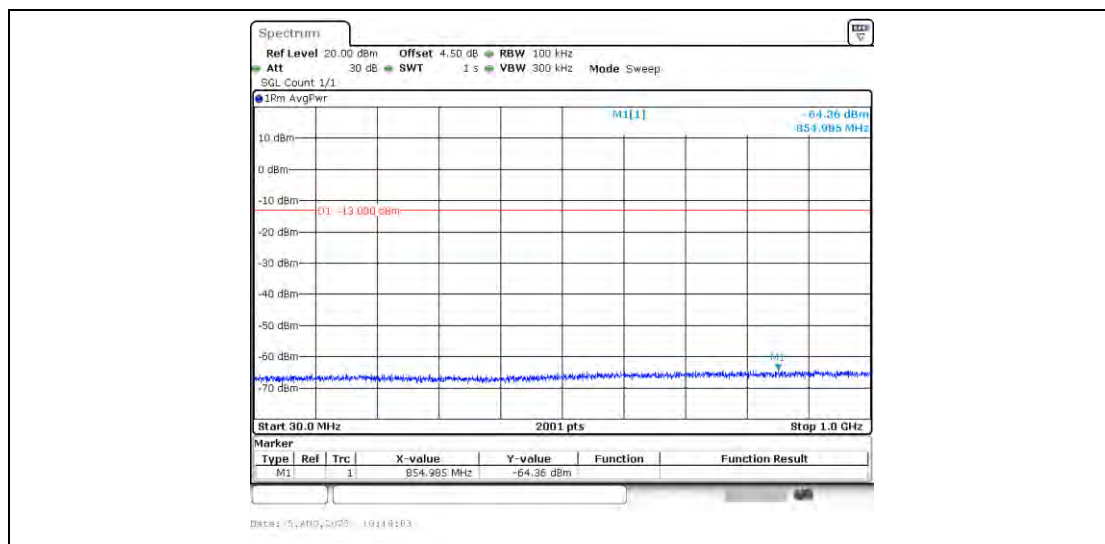
Band17_10MHz_QPSK_23780_1RB#0_3000~10000_3000~10000



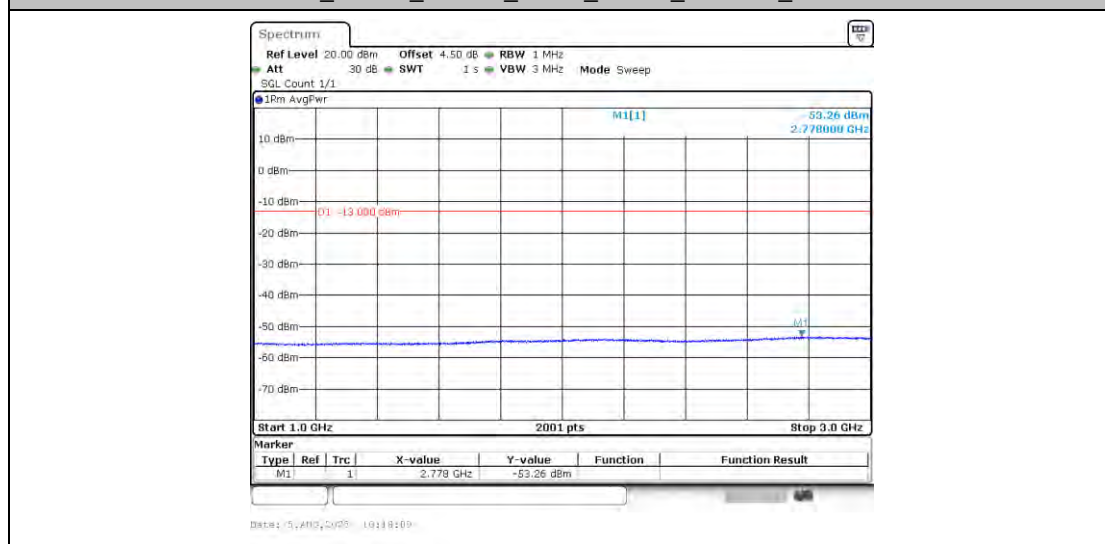
Band17_10MHz_16QAM_23780_1RB#0_0.009~0.15_0.009~0.15



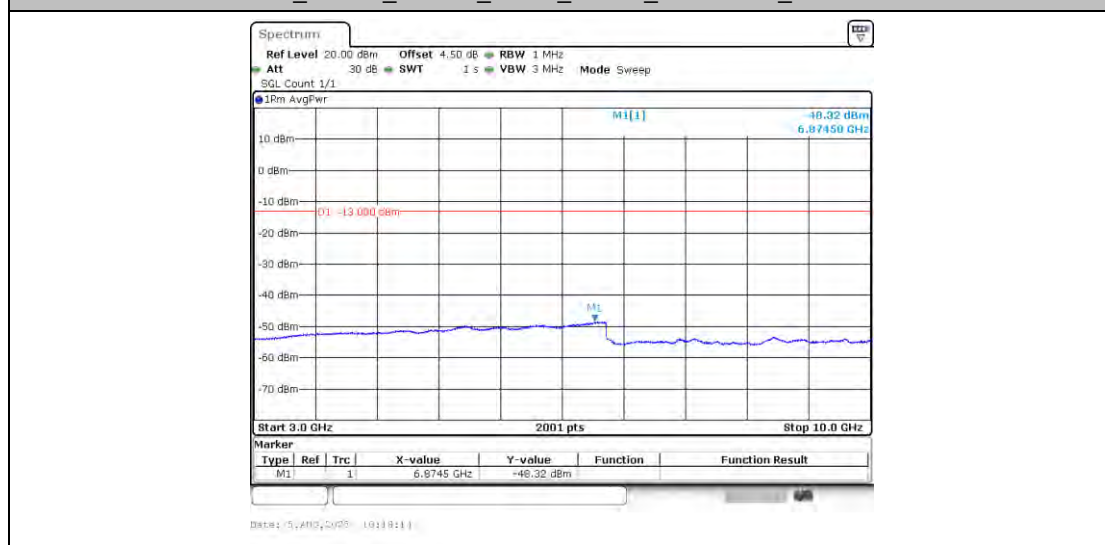
Band17_10MHz_16QAM_23780_1RB#0_0.15~30_0.15~30



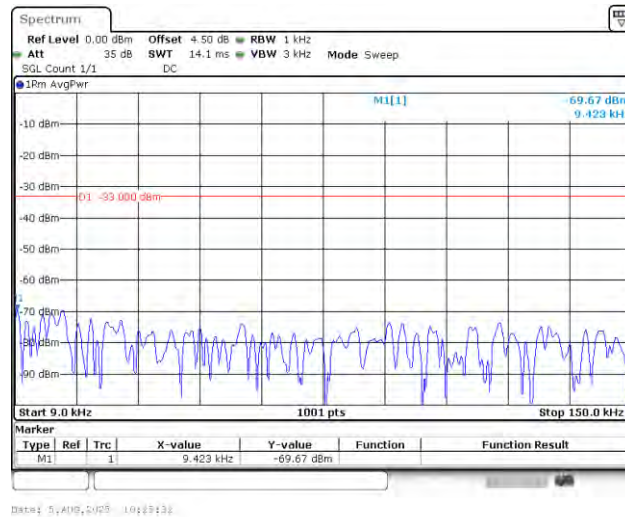
Band17_10MHz_16QAM_23780_1RB#0_30~1000_30~1000



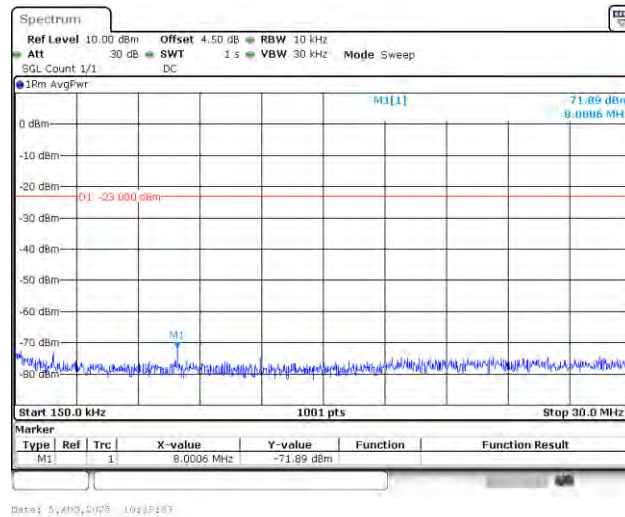
Band17_10MHz_16QAM_23780_1RB#0_1000~3000_1000~3000



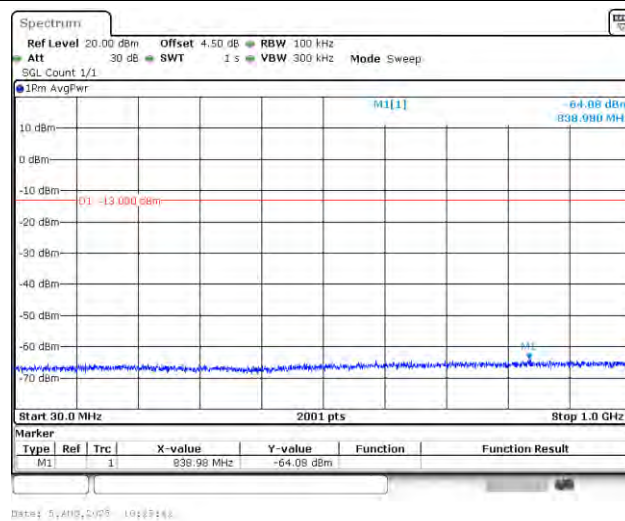
Band17_10MHz_16QAM_23780_1RB#0_3000~10000_3000~10000



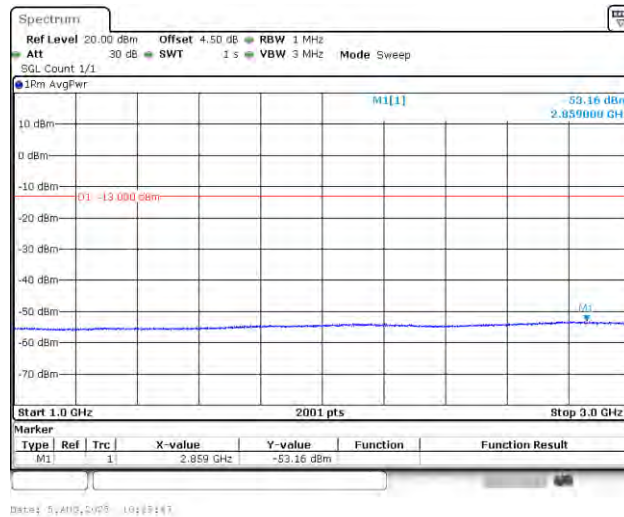
Band17_10MHz_QPSK_23790_1RB#0_0.009~0.15_0.009~0.15



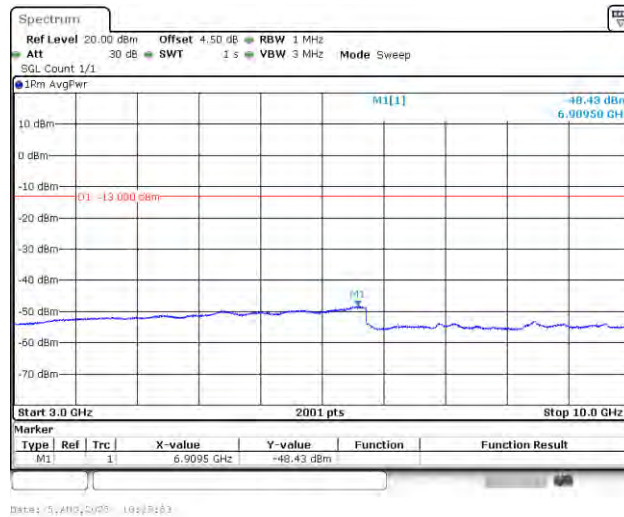
Band17_10MHz_QPSK_23790_1RB#0_0.15~30_0.15~30



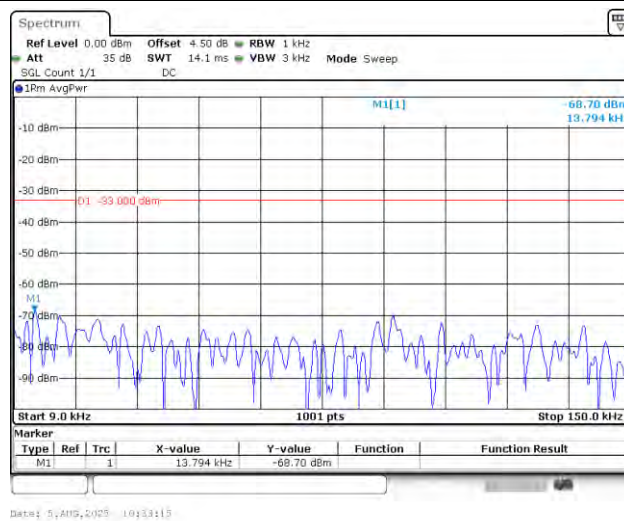
Band17_10MHz_QPSK_23790_1RB#0_30~1000_30~1000



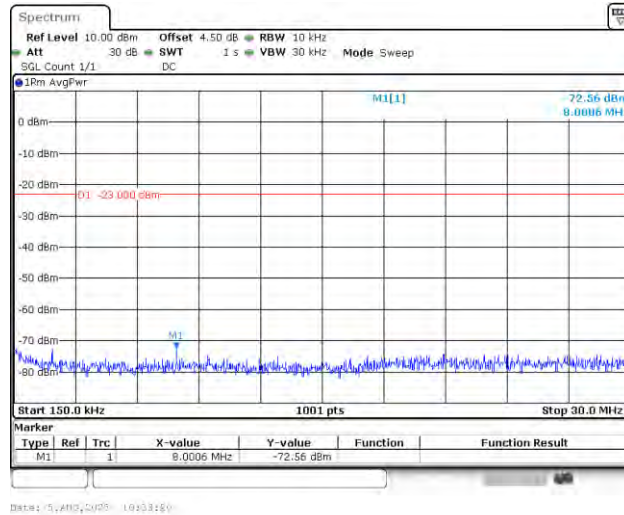
Band17_10MHz_QPSK_23790_1RB#0_1000~3000_1000~3000



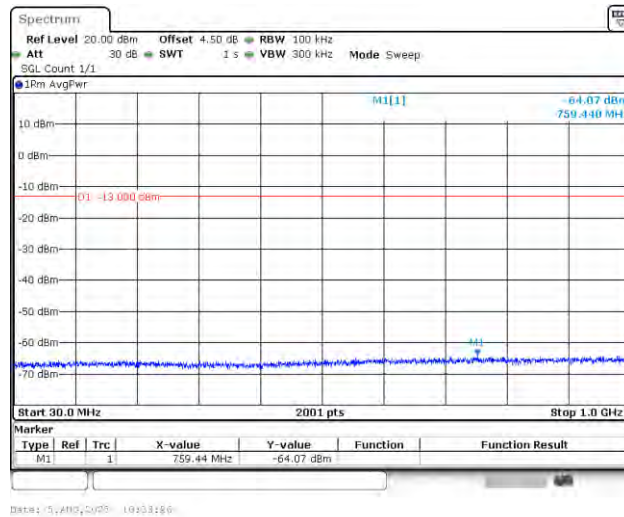
Band17_10MHz_QPSK_23790_1RB#0_3000~10000_3000~10000



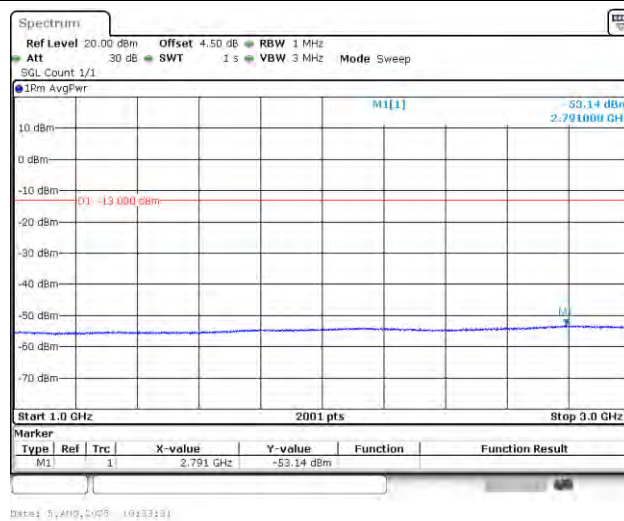
Band17_10MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15



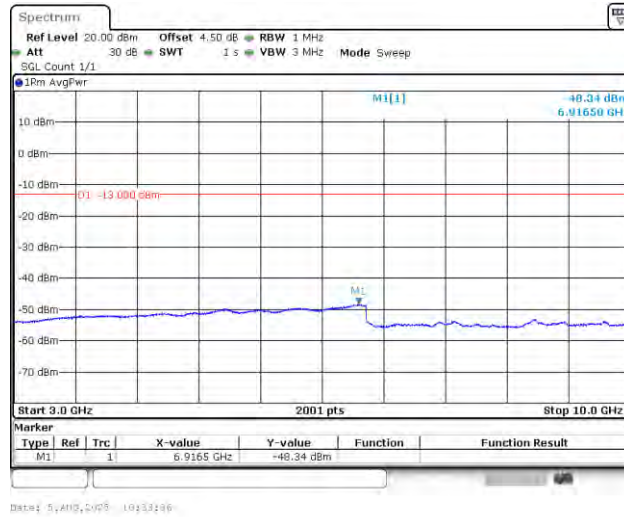
Band17_10MHz_16QAM_23790_1RB#0_0.15~30_0.15~30



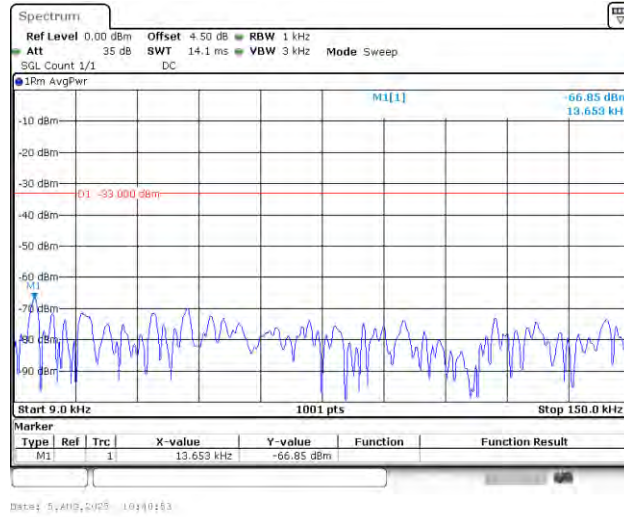
Band17_10MHz_16QAM_23790_1RB#0_30~1000_30~1000



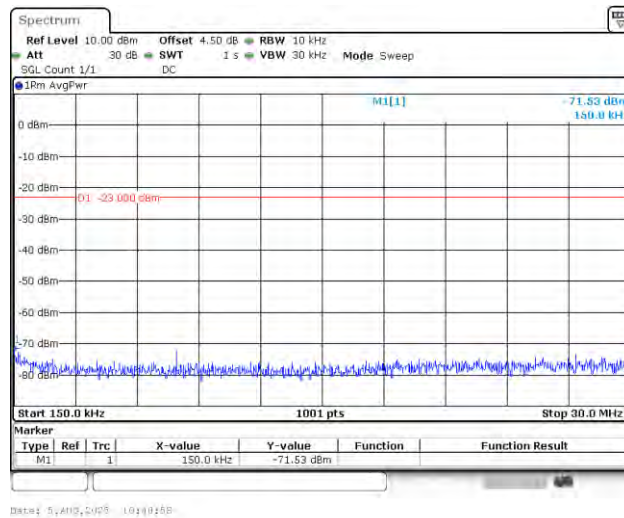
Band17_10MHz_16QAM_23790_1RB#0_1000~3000_1000~3000



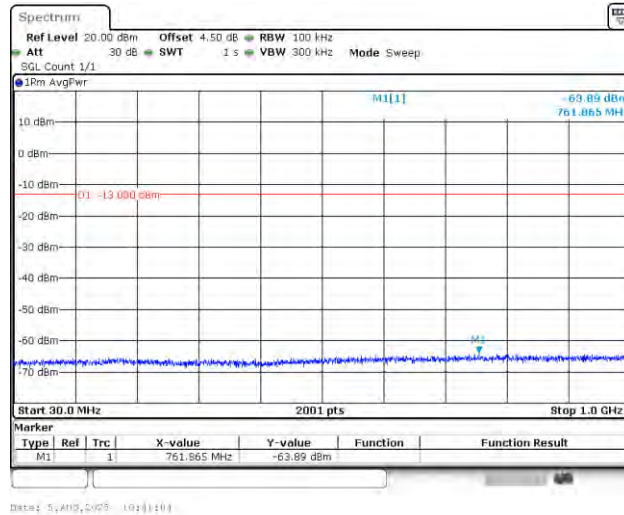
Band17_10MHz_16QAM_23790_1RB#0_3000~10000_3000~10000



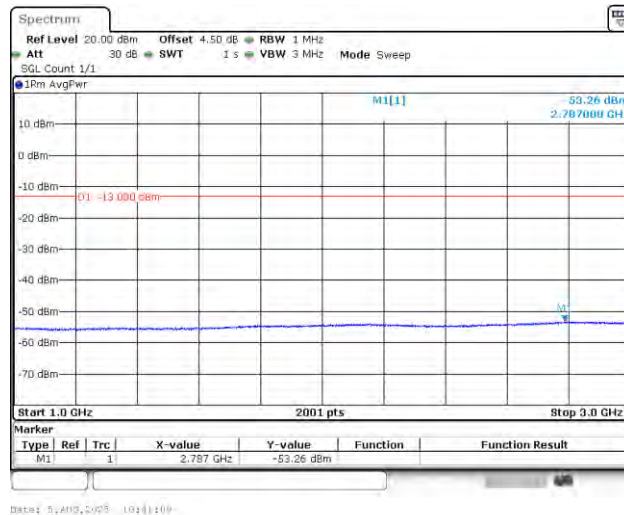
Band17_10MHz_QPSK_23800_1RB#0_0.009~0.15_0.009~0.15



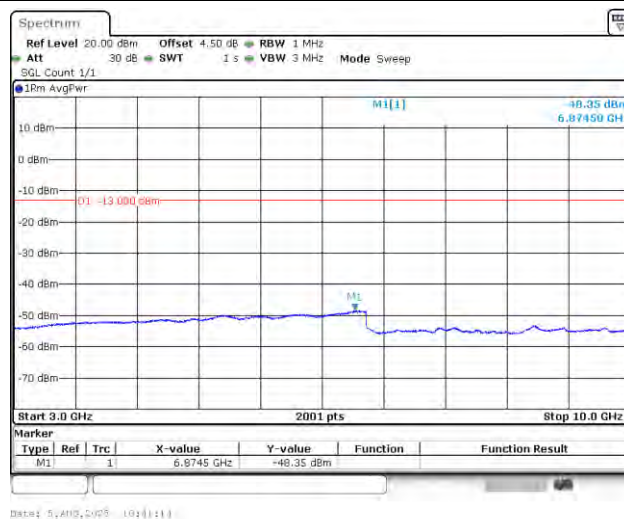
Band17_10MHz_QPSK_23800_1RB#0_0.15~30_0.15~30



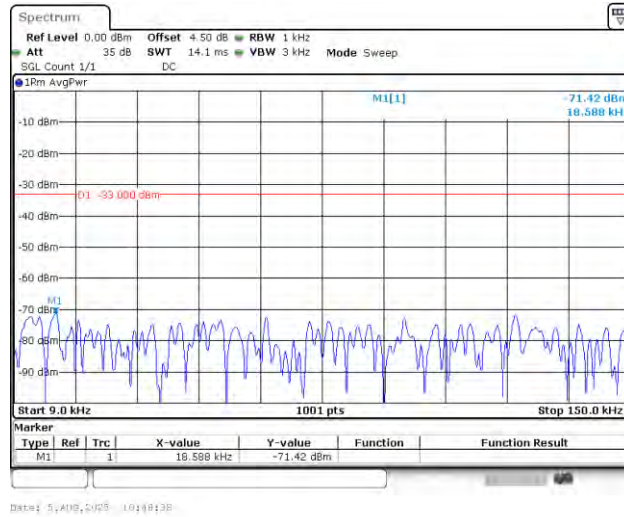
Band17_10MHz_QPSK_23800_1RB#0_30~1000_30~1000



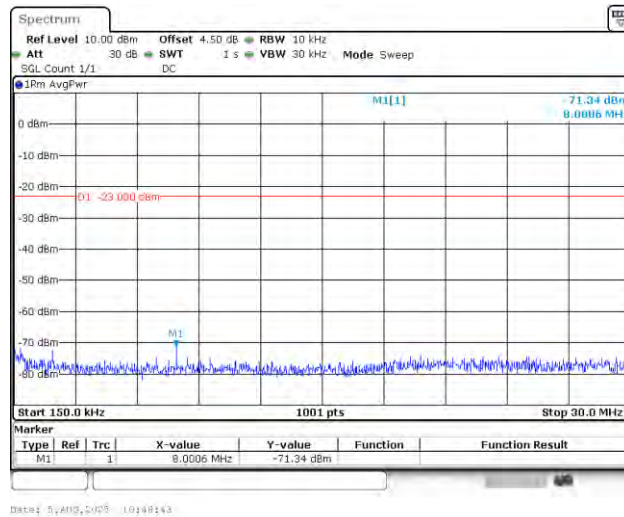
Band17_10MHz_QPSK_23800_1RB#0_1000~3000_1000~3000



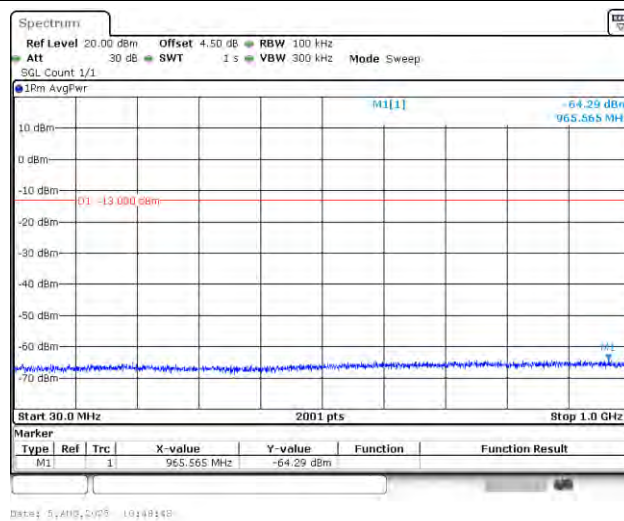
Band17_10MHz_QPSK_23800_1RB#0_3000~10000_3000~10000



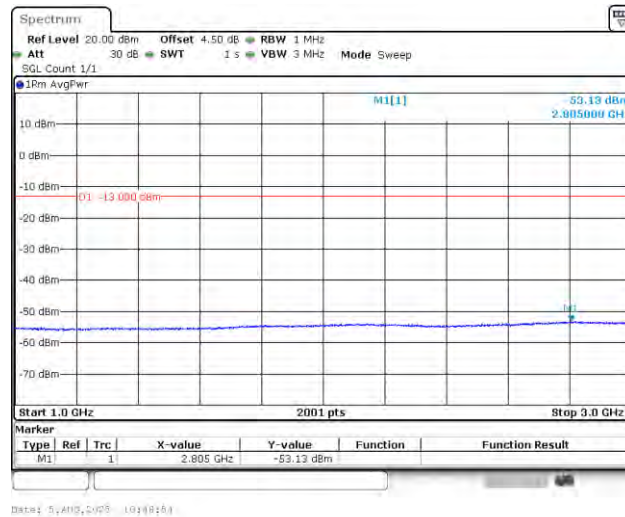
Band17_10MHz_16QAM_23800_1RB#0_0.009~0.15_0.009~0.15



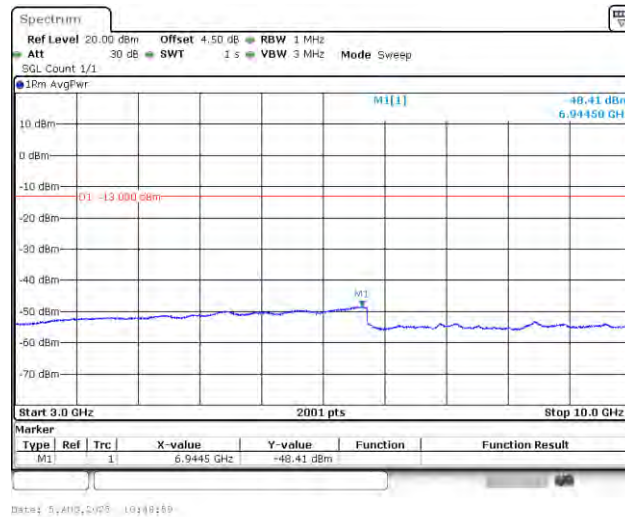
Band17_10MHz_16QAM_23800_1RB#0_0.15~30_0.15~30



Band17_10MHz_16QAM_23800_1RB#0_30~1000_30~1000



Band17_10MHz_16QAM_23800_1RB#0_1000~3000_1000~3000



Band17_10MHz_16QAM_23800_1RB#0_3000~10000_3000~10000

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	VN	NT	-26.82	-0.037962	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VL	NT	-24.23	-0.034296	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	VH	NT	-17.04	-0.024119	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VN	NT	16.24	0.022987	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VL	NT	10.59	0.014989	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	VH	NT	16.08	0.022760	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VN	NT	-36.89	-0.051958	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VL	NT	6.85	0.009648	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	VH	NT	6.32	0.008901	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VN	NT	8.35	0.011761	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VL	NT	-10.97	-0.015451	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	VH	NT	-10.37	-0.014606	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VN	NT	-31.24	-0.043784	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VL	NT	-12.10	-0.016959	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	VH	NT	-8.25	-0.011563	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VN	NT	-5.38	-0.007540	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VL	NT	-9.67	-0.013553	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	VH	NT	-6.79	-0.009516	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	18.31	0.025825	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	24.81	0.034993	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	18.25	0.025740	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-30.08	-0.042366	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	9.33	0.013141	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	7.47	0.010521	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-48.22	-0.067820	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-13.16	-0.018509	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-8.65	-0.012166	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	NV	-30	-10.00	-0.014154	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-20	-8.60	-0.012173	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	-10	9.14	0.012937	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	0	9.56	0.013531	±2.5	PASS

Band17	5MHz	QPSK	23755	25RB#0	NV	10	9.28	0.013135	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	20	11.23	0.015895	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	30	14.96	0.021175	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	40	10.49	0.014848	±2.5	PASS
Band17	5MHz	QPSK	23755	25RB#0	NV	50	15.96	0.022590	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-30	-5.54	-0.007841	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-20	4.09	0.005789	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	-10	4.56	0.006454	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	0	-10.61	-0.015018	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	10	-8.15	-0.011536	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	20	9.58	0.013560	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	30	10.96	0.015513	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	40	10.51	0.014876	±2.5	PASS
Band17	5MHz	16QAM	23755	25RB#0	NV	50	9.11	0.012895	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-30	-9.38	-0.013211	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-20	8.58	0.012085	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	-10	8.54	0.012028	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	0	9.11	0.012831	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	10	10.73	0.015113	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	20	7.64	0.010761	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	30	7.07	0.009958	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	40	8.63	0.012155	±2.5	PASS
Band17	5MHz	QPSK	23790	25RB#0	NV	50	6.68	0.009408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-30	-9.17	-0.012915	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-20	5.26	0.007408	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	-10	7.95	0.011197	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	0	-9.26	-0.013042	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	10	7.05	0.009930	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	20	2.63	0.003704	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	30	-6.42	-0.009042	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	40	-15.69	-0.022099	±2.5	PASS
Band17	5MHz	16QAM	23790	25RB#0	NV	50	-14.96	-0.021070	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-30	-9.44	-0.013231	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-20	-10.39	-0.014562	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	-10	-9.11	-0.012768	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	0	-8.67	-0.012151	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	10	-9.94	-0.013931	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	20	-9.83	-0.013777	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	30	-11.76	-0.016482	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	40	8.25	0.011563	±2.5	PASS
Band17	5MHz	QPSK	23825	25RB#0	NV	50	-11.33	-0.015879	±2.5	PASS

Band17	5MHz	16QAM	23825	25RB#0	NV	-30	-12.23	-0.017141	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-20	-11.77	-0.016496	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	-10	-9.40	-0.013174	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	0	-9.20	-0.012894	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	10	-9.81	-0.013749	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	20	-8.07	-0.011310	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	30	5.36	0.007512	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	40	-7.87	-0.011030	±2.5	PASS
Band17	5MHz	16QAM	23825	25RB#0	NV	50	6.79	0.009516	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	9.27	0.013075	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	10.39	0.014654	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	8.50	0.011989	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	8.37	0.011805	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	10.26	0.014471	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	16.14	0.022764	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-10.19	-0.014372	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-8.38	-0.011819	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-6.94	-0.009788	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	9.61	0.013535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	7.25	0.010211	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	9.96	0.014028	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	8.61	0.012127	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-5.42	-0.007634	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-9.47	-0.013338	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-16.48	-0.023211	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-10.30	-0.014507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-14.85	-0.020915	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-9.66	-0.013586	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	9.70	0.013643	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	8.14	0.011449	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-11.40	-0.016034	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	7.90	0.011111	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	7.90	0.011111	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	8.74	0.012293	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	8.81	0.012391	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	8.81	0.012391	±2.5	PASS