

Appendix for LTE Band 17

Product Name: Rugged Android Tablet
Model No: UA80

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.56	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.48	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.59	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.56	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.49	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.52	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.47	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.54	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.48	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.53	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.45	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.46	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.50	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.48	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.67	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.85	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.66	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.78	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.72	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.89	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.53	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.56	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.51	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.56	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.62	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.67	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.49	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.44	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.75	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.73	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.82	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.83	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.72	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.70	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.77	PASS

Band17	5MHz	16QAM	23825	12RB#0	20.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.73	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.81	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.63	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.67	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.71	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.79	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.61	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.76	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.37	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.61	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.89	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.98	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.52	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.54	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.53	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.52	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.70	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.73	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.61	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.51	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.57	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.79	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.51	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.69	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.01	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.10	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.54	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.56	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.52	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.55	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.74	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.75	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.62	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.59	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.71	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.52	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.63	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.50	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.85	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.88	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.48	PASS

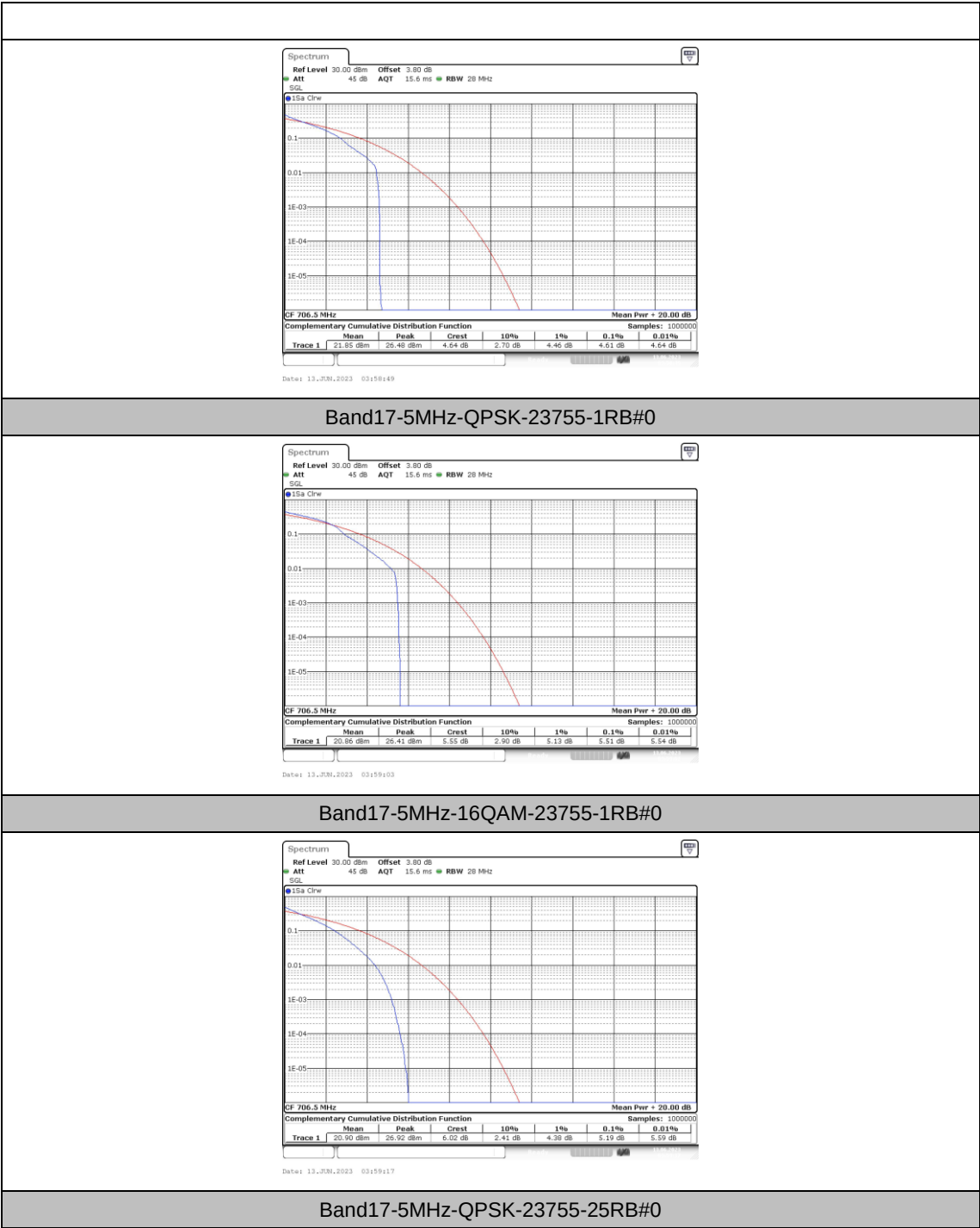
Band17	10MHz	16QAM	23800	25RB#0	20.51	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.49	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.51	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.70	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.70	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.64	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.58	PASS

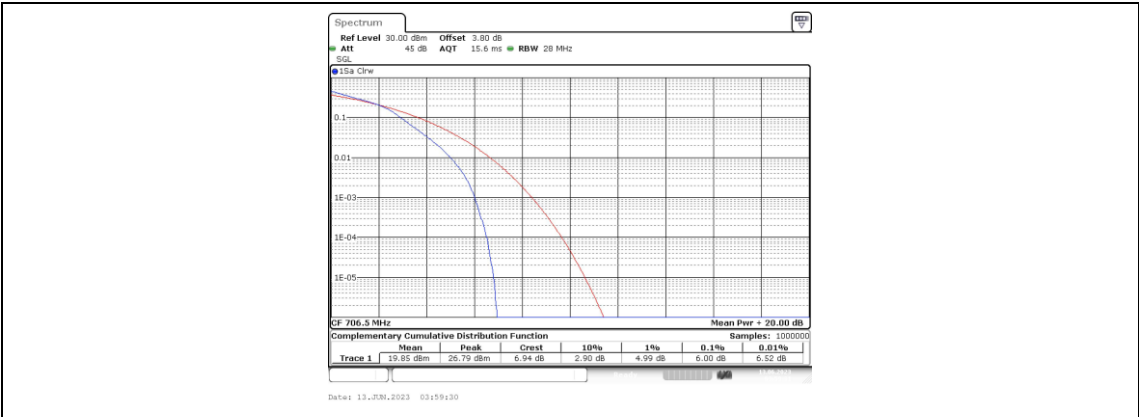
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

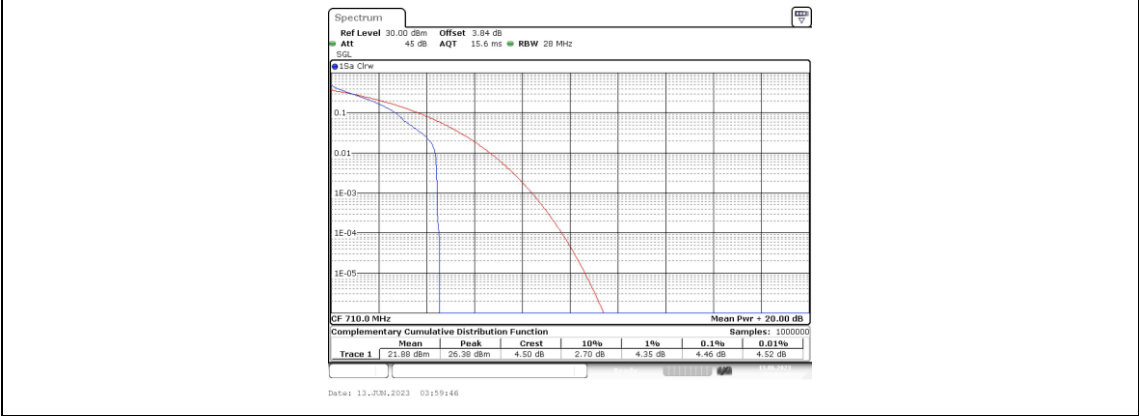
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.61	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.51	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.19	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.00	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.46	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.33	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.13	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	5.94	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.49	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.25	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.22	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.00	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.55	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.33	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	4.99	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.86	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.52	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.36	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.01	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.86	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.46	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.36	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.07	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.94	13	PASS

Test Graphs

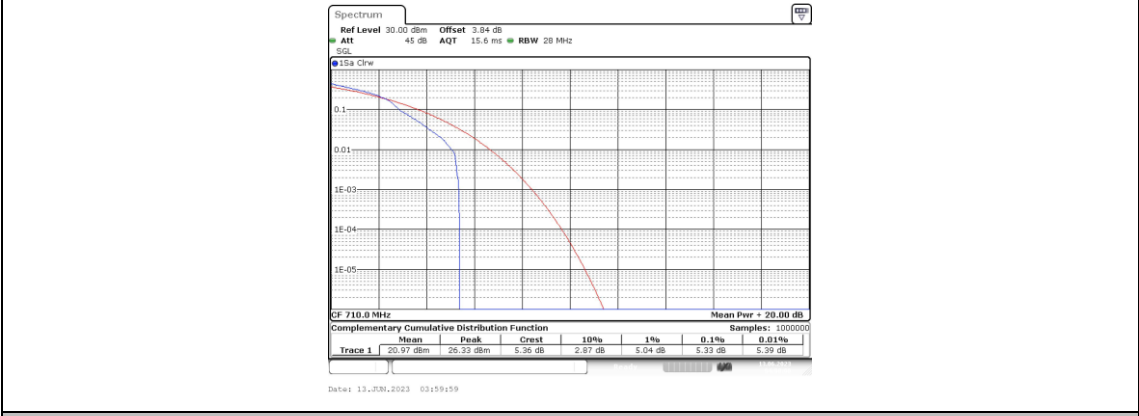




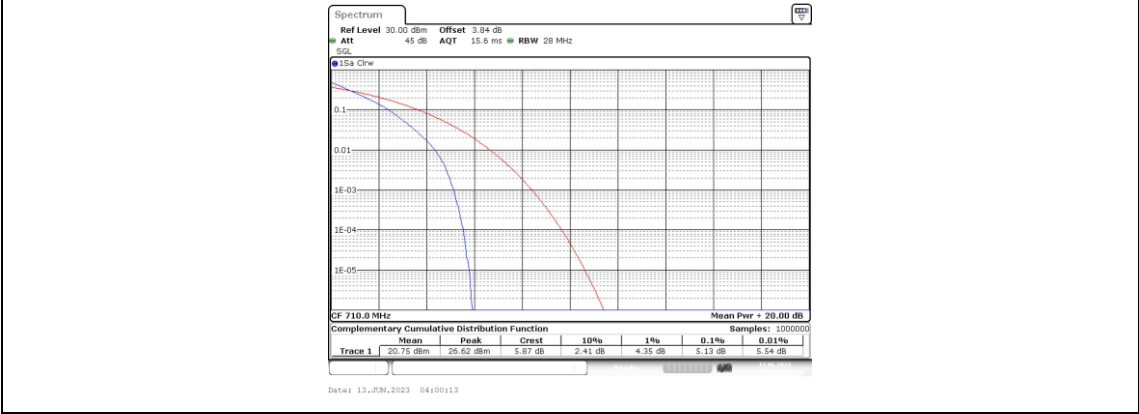
Band17-5MHz-16QAM-23755-25RB#0

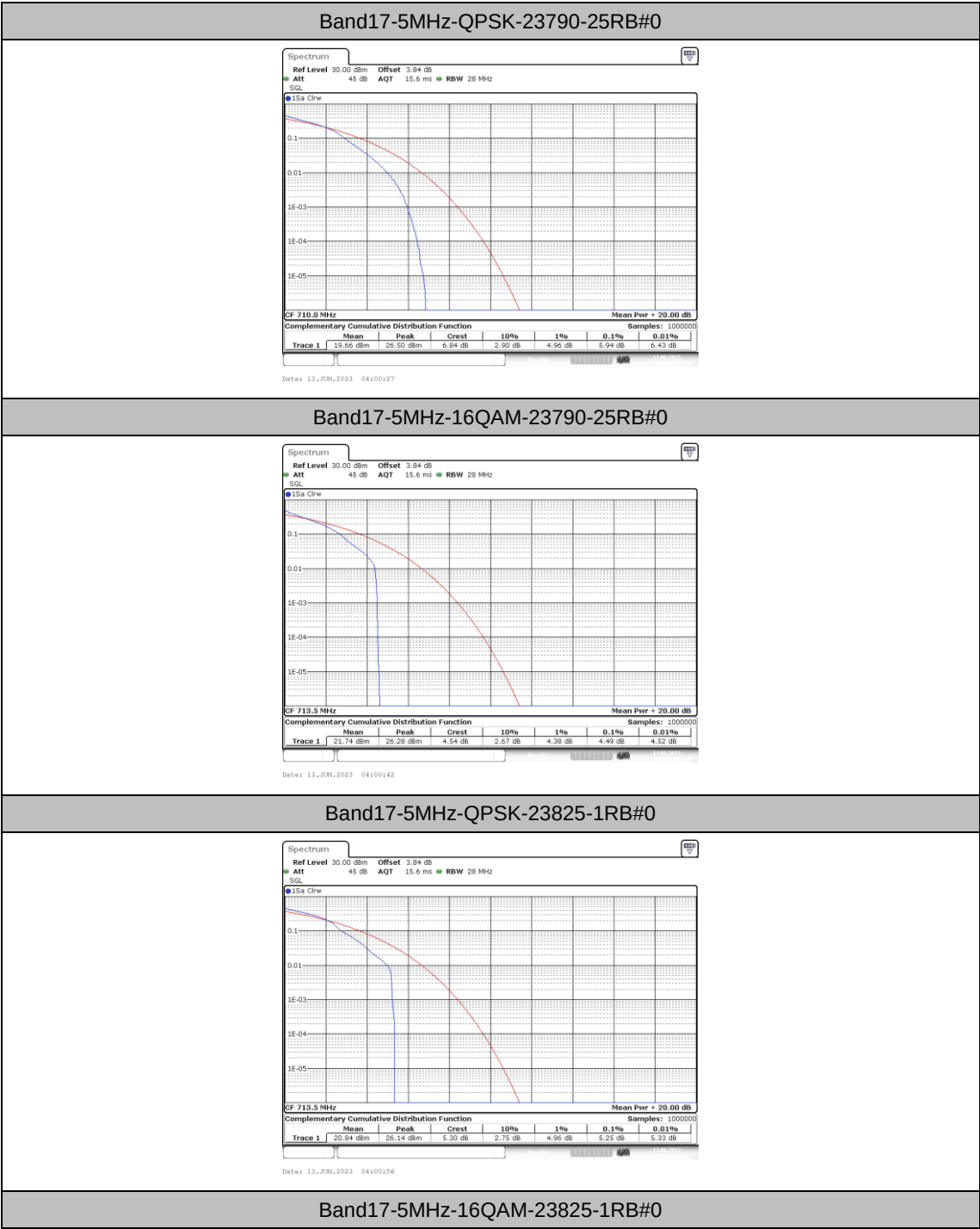


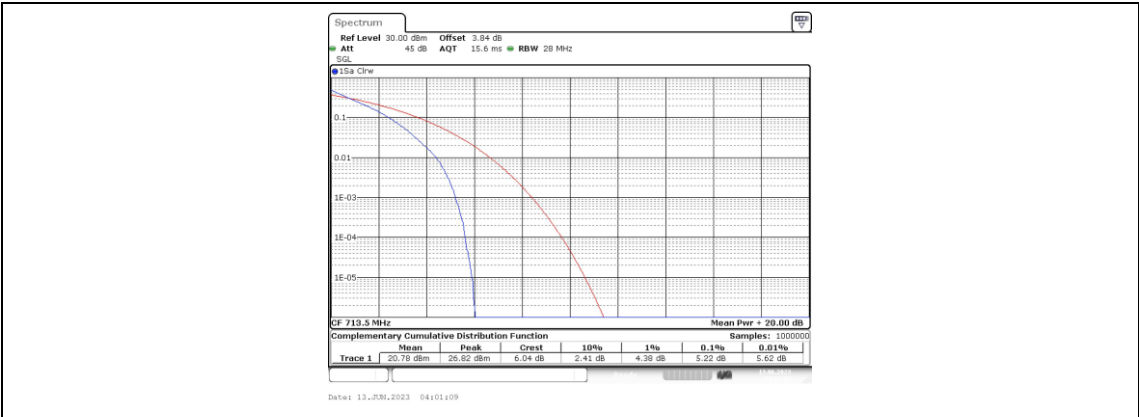
Band17-5MHz-QPSK-23790-1RB#0



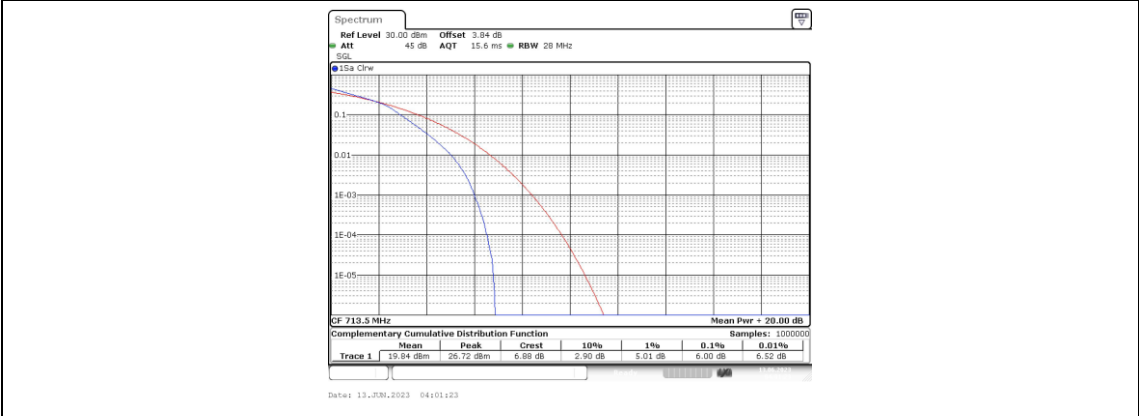
Band17-5MHz-16QAM-23790-1RB#0



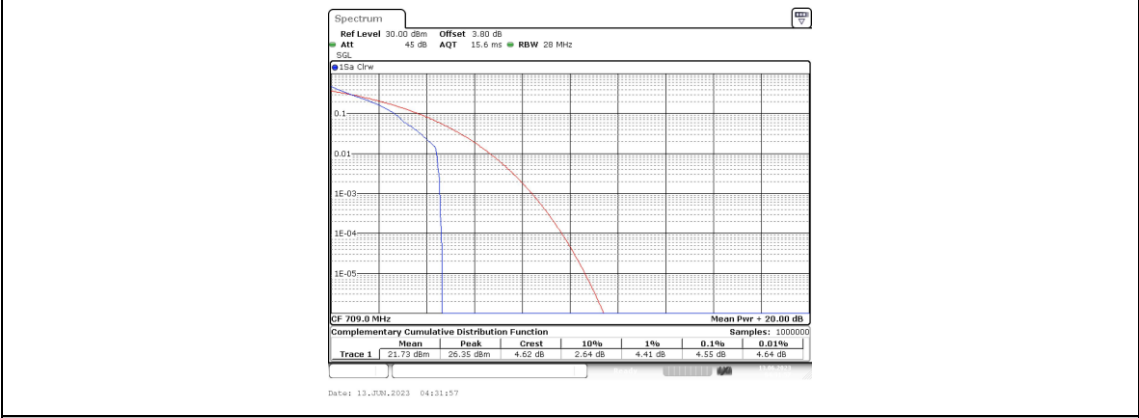




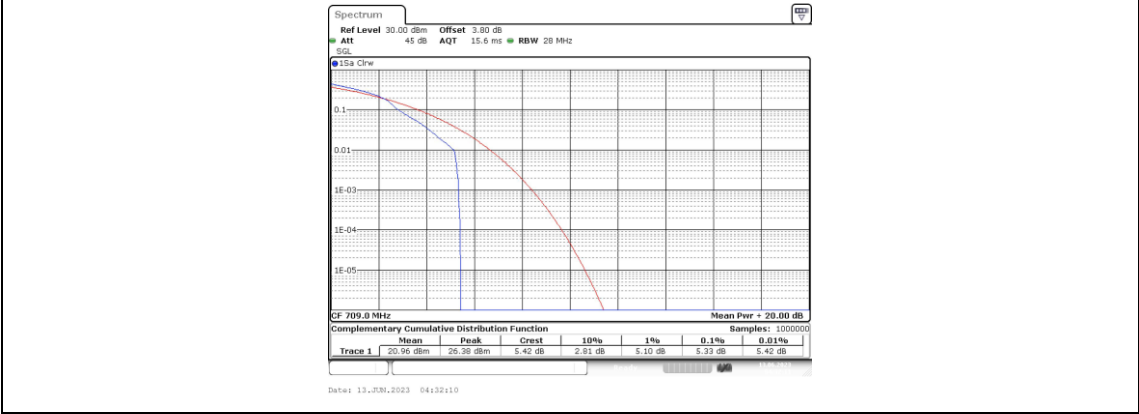
Band17-5MHz-QPSK-23825-25RB#0

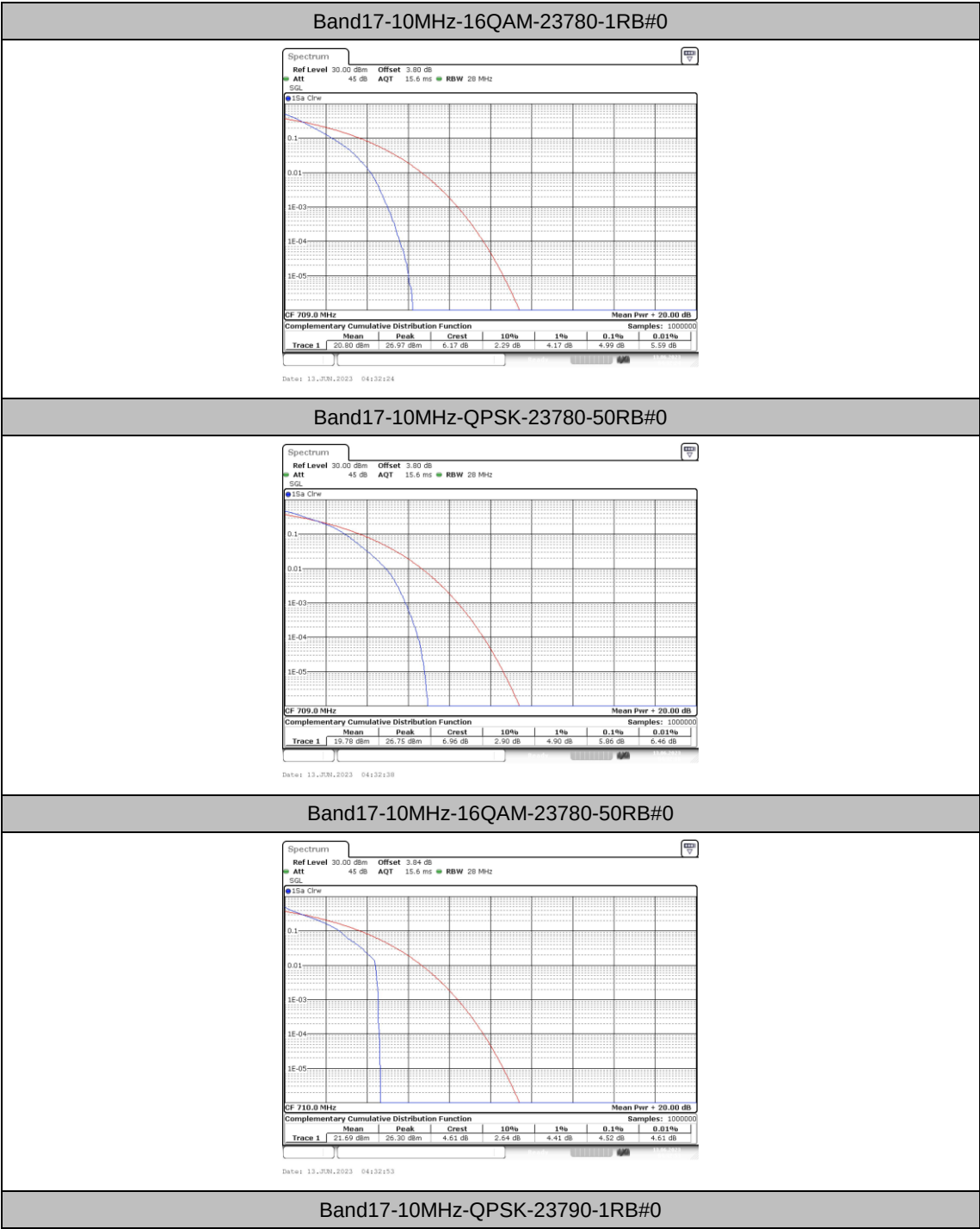


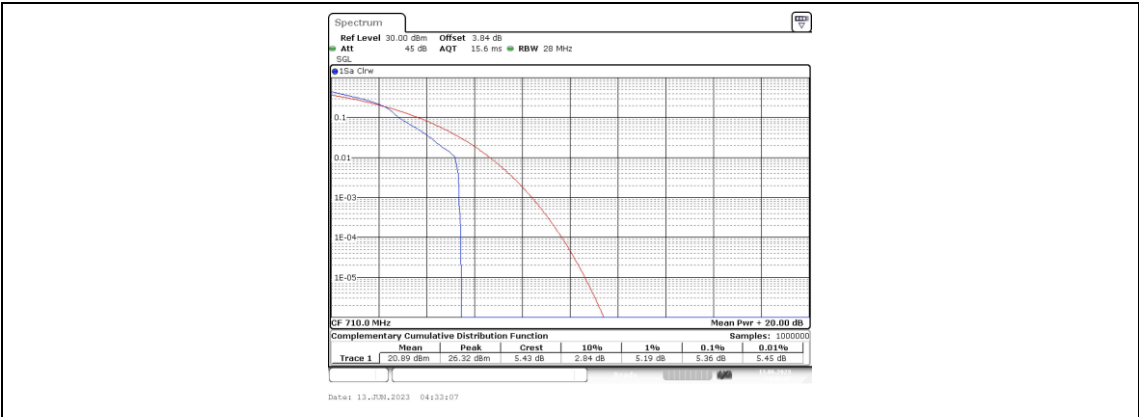
Band17-5MHz-16QAM-23825-25RB#0



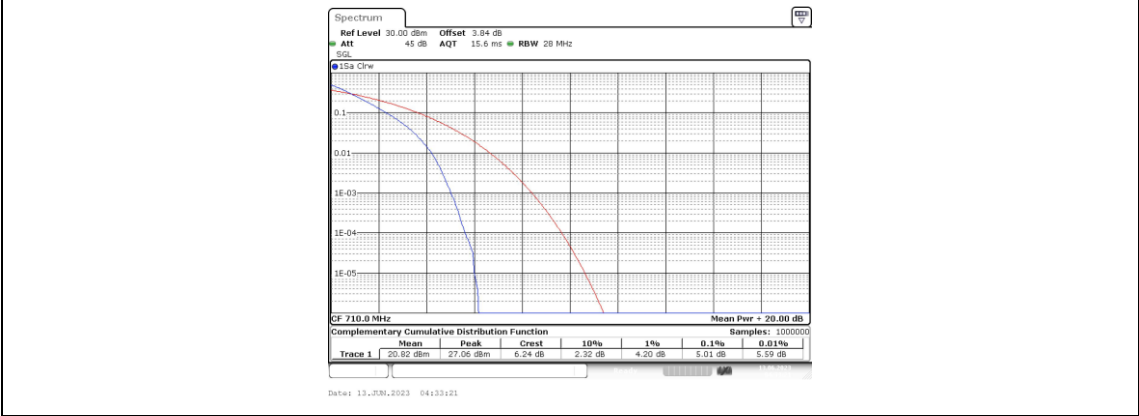
Band17-10MHz-QPSK-23780-1RB#0



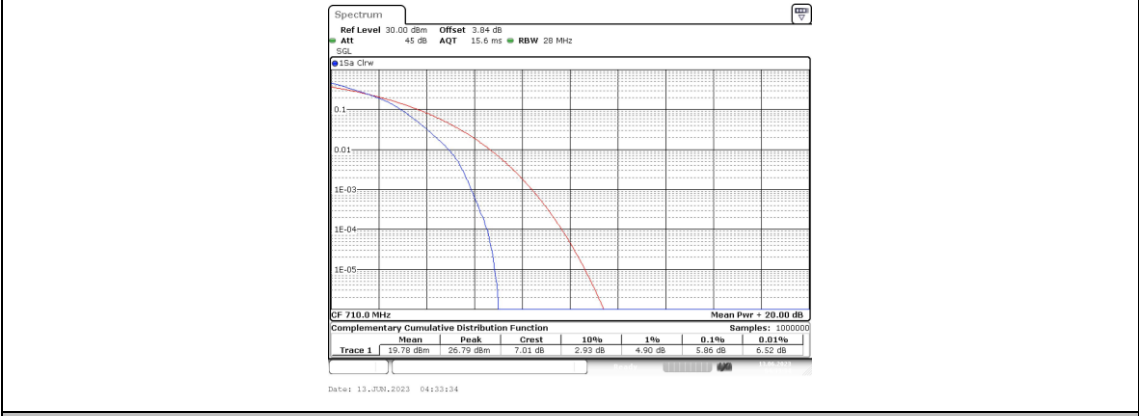




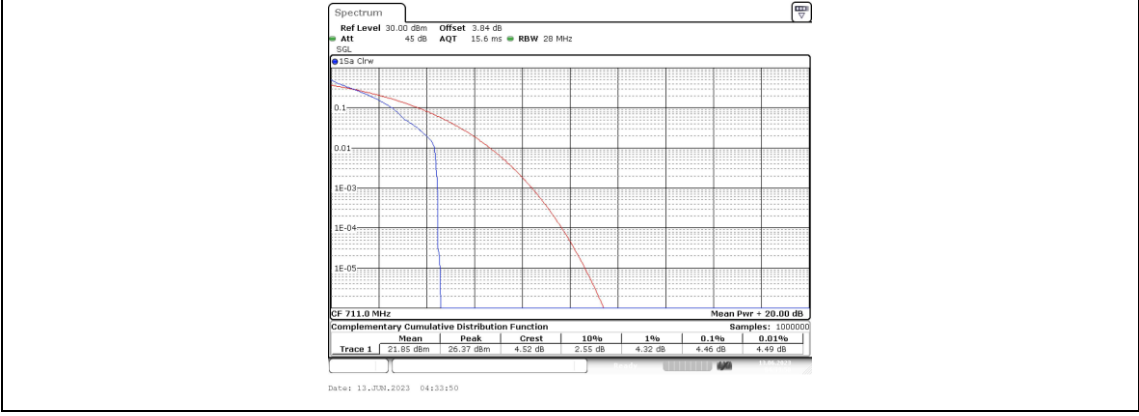
Band17-10MHz-16QAM-23790-1RB#0

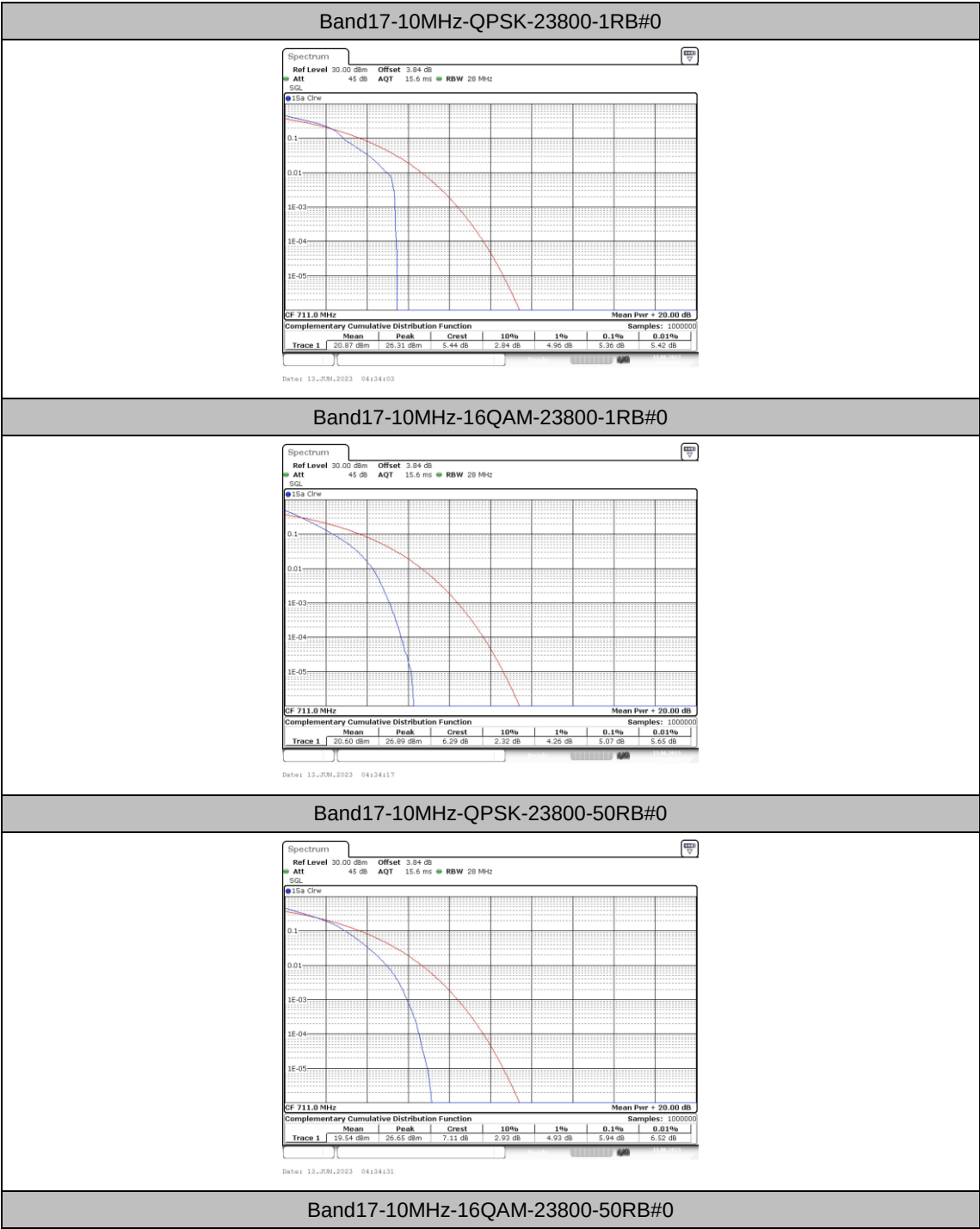


Band17-10MHz-QPSK-23790-50RB#0



Band17-10MHz-16QAM-23790-50RB#0





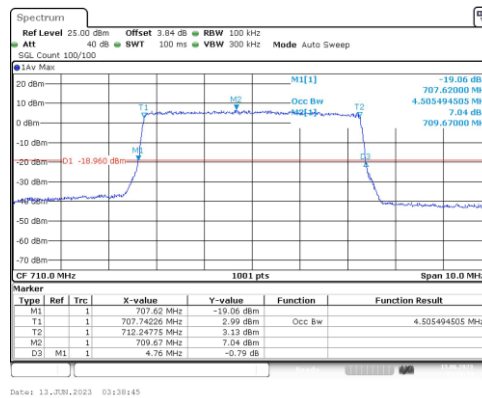
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

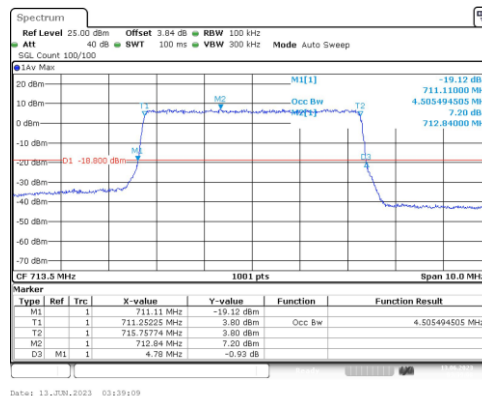
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.496	4.79	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.505	4.78	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.486	4.80	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.505	4.76	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.505	4.78	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	4.79	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.952	9.53	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.952	9.53	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.952	9.53	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.952	9.53	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.952	9.53	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.952	9.53	PASS

Test Graphs

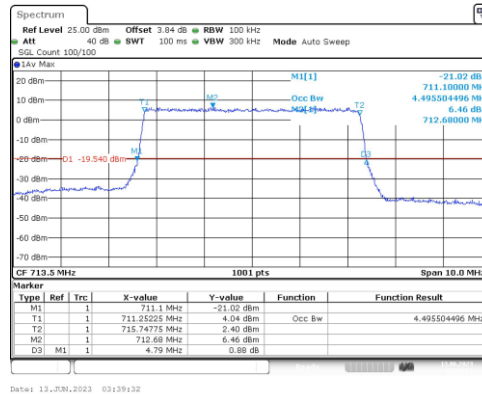




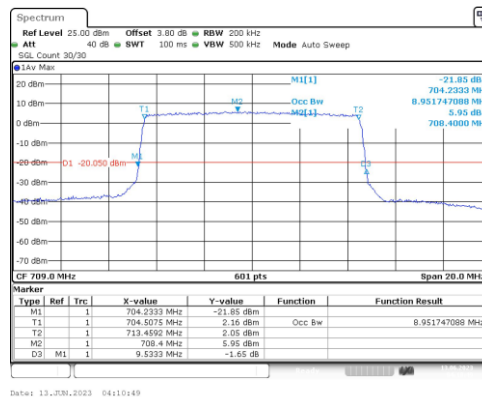
Band17-5MHz-16QAM-23790-25RB#0-4.505



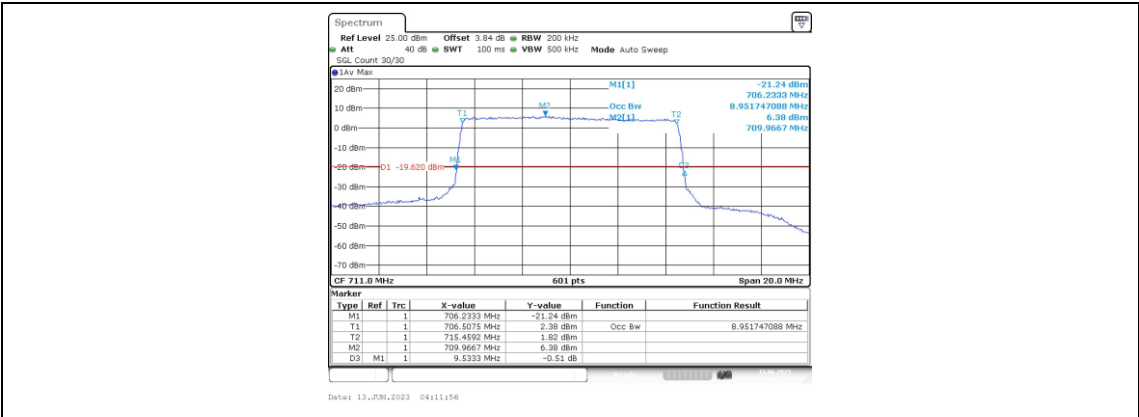
Band17-5MHz-QPSK-23825-25RB#0-4.505



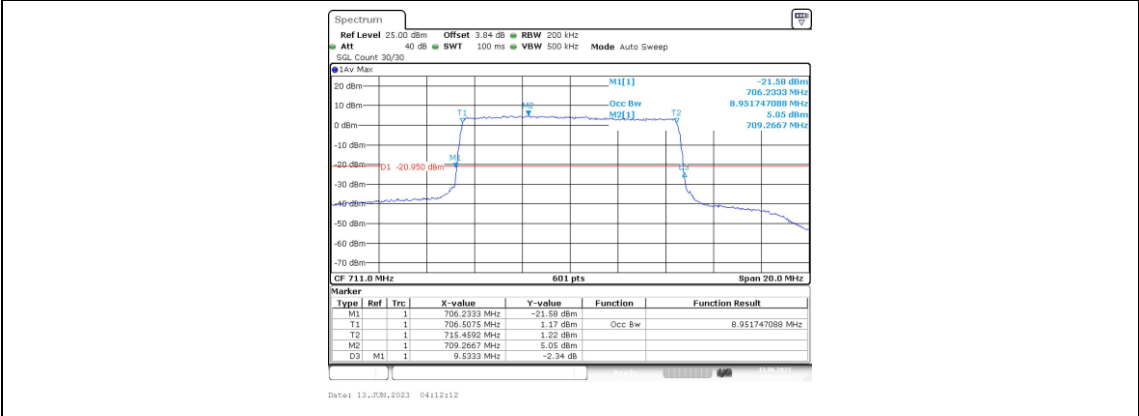
Band17-5MHz-16QAM-23825-25RB#0-4.496







Band17-10MHz-QPSK-23800-50RB#0-8.952



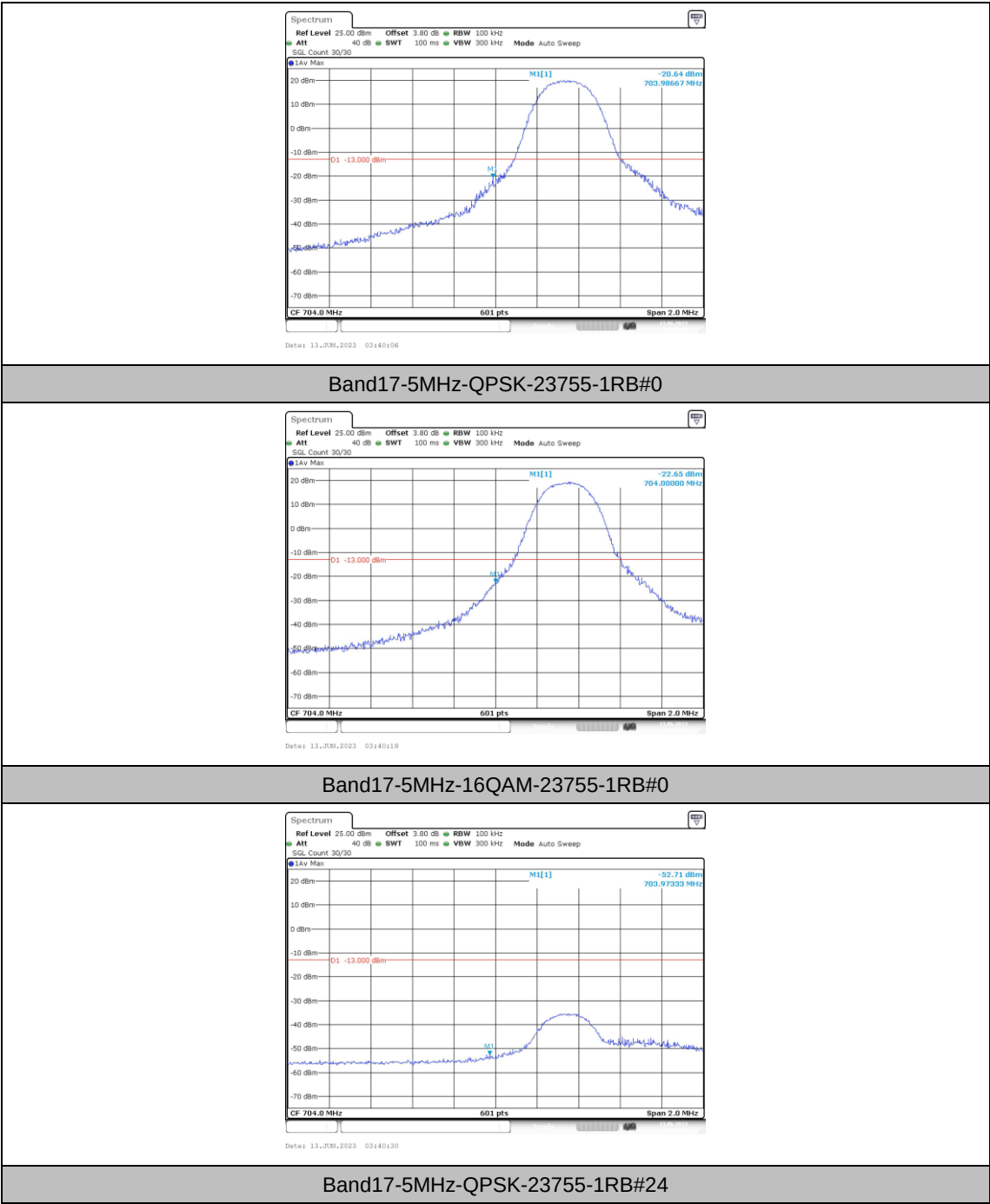
Band17-10MHz-16QAM-23800-50RB#0-8.952

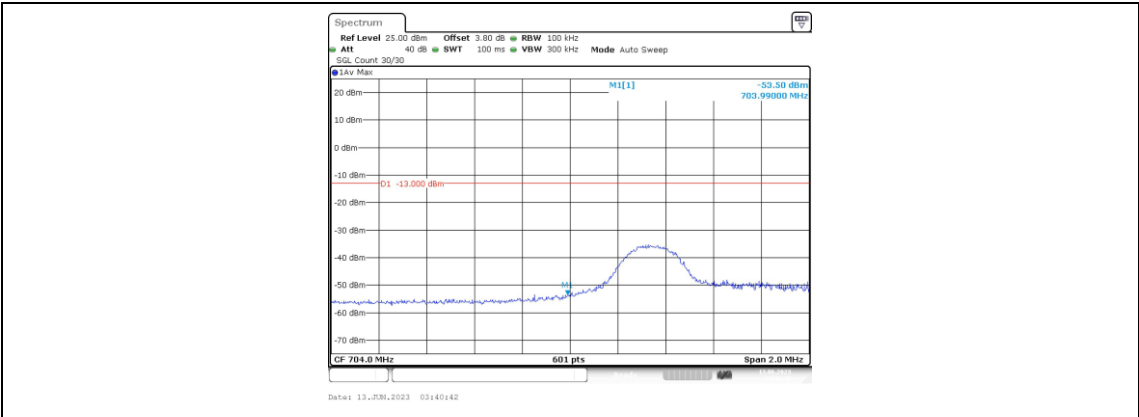
Appendix D: Band Edge

Test Result

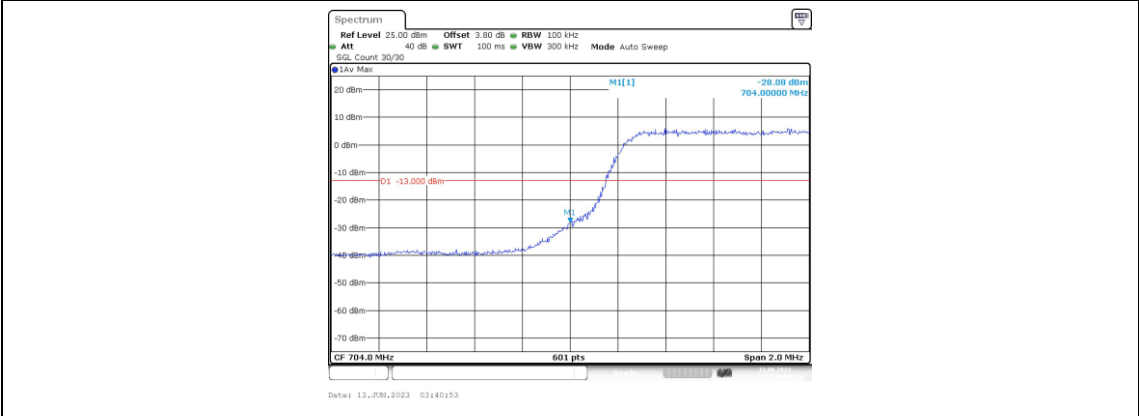
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-20.64	PASS
Band17	5MHz	16QAM	23755	1RB#0	-22.65	PASS
Band17	5MHz	QPSK	23755	1RB#24	-52.71	PASS
Band17	5MHz	16QAM	23755	1RB#24	-53.50	PASS
Band17	5MHz	QPSK	23755	25RB#0	-28.08	PASS
Band17	5MHz	16QAM	23755	25RB#0	-30.68	PASS
Band17	5MHz	QPSK	23825	1RB#0	-52.29	PASS
Band17	5MHz	16QAM	23825	1RB#0	-52.58	PASS
Band17	5MHz	QPSK	23825	1RB#24	-19.89	PASS
Band17	5MHz	16QAM	23825	1RB#24	-21.58	PASS
Band17	5MHz	QPSK	23825	25RB#0	-28.86	PASS
Band17	5MHz	16QAM	23825	25RB#0	-30.74	PASS
Band17	10MHz	QPSK	23780	1RB#0	-34.15,-28.73	PASS
Band17	10MHz	16QAM	23780	1RB#0	-34.76,-29.45	PASS
Band17	10MHz	QPSK	23780	1RB#49	-50.54,-48.75	PASS
Band17	10MHz	16QAM	23780	1RB#49	-49.97,-47.94	PASS
Band17	10MHz	QPSK	23780	50RB#0	-32.95,-31.05	PASS
Band17	10MHz	16QAM	23780	50RB#0	-34.66,-32.72	PASS
Band17	10MHz	QPSK	23800	1RB#0	-49.96,-50.76	PASS
Band17	10MHz	16QAM	23800	1RB#0	-50.30,-50.78	PASS
Band17	10MHz	QPSK	23800	1RB#49	-29.97,-36.11	PASS
Band17	10MHz	16QAM	23800	1RB#49	-29.91,-34.75	PASS
Band17	10MHz	QPSK	23800	50RB#0	-32.57,-33.63	PASS
Band17	10MHz	16QAM	23800	50RB#0	-33.40,-35.65	PASS

Test Graphs

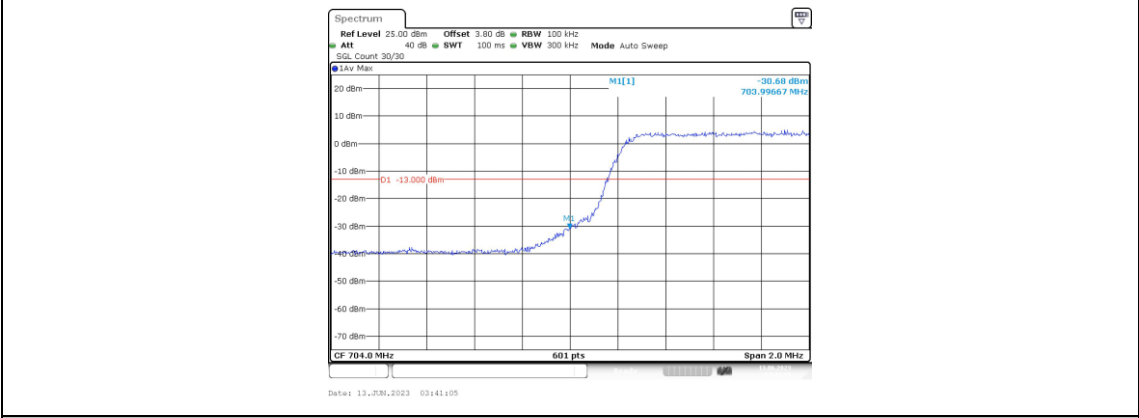




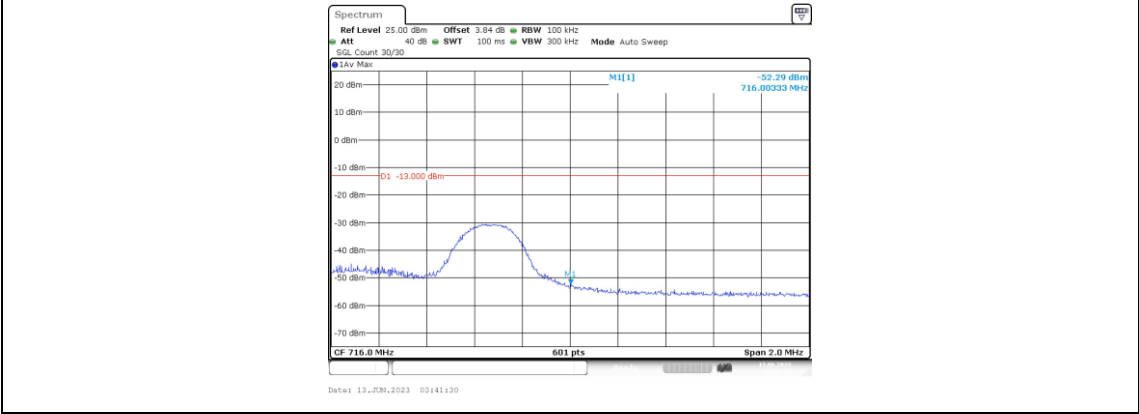
Band17-5MHz-16QAM-23755-1RB#24



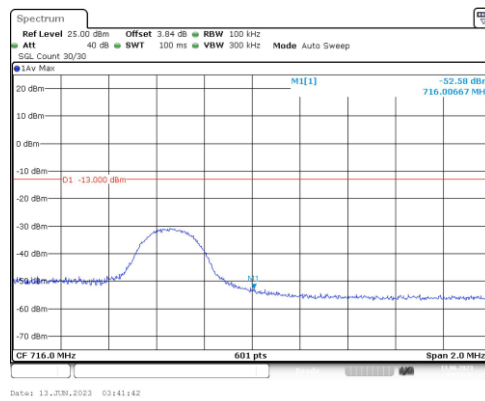
Band17-5MHz-QPSK-23755-25RB#0



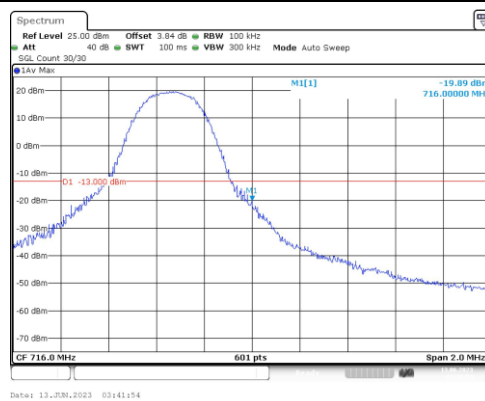
Band17-5MHz-16QAM-23755-25RB#0



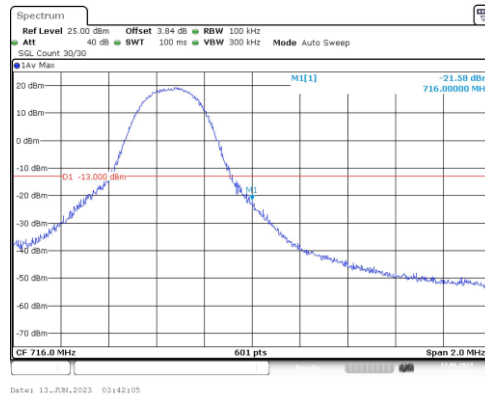
Band17-5MHz-QPSK-23825-1RB#0



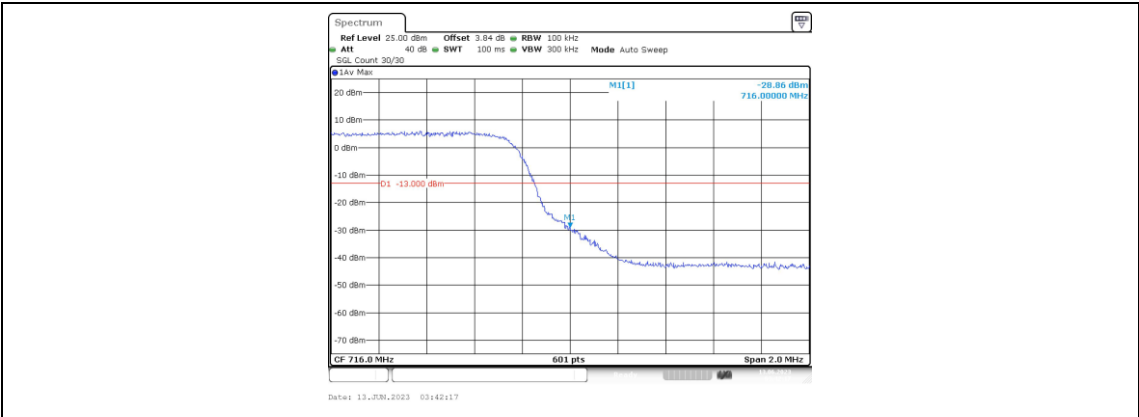
Band17-5MHz-16QAM-23825-1RB#0



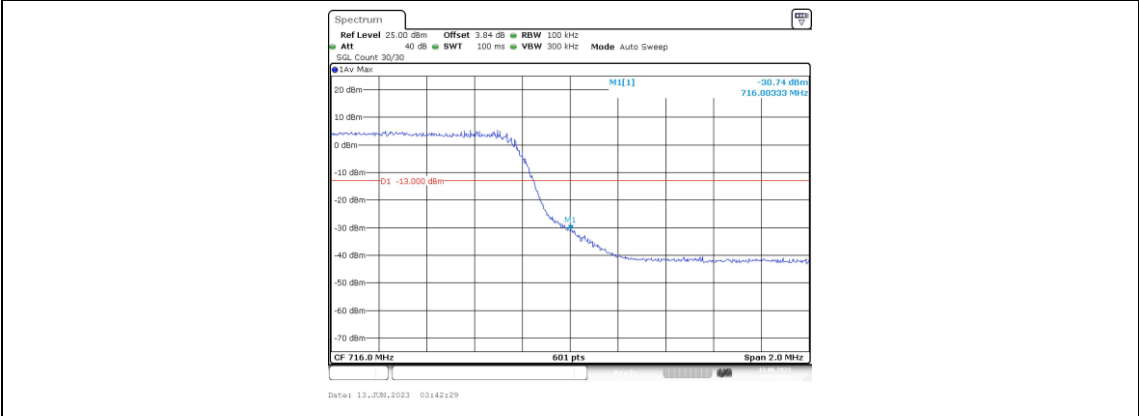
Band17-5MHz-QPSK-23825-1RB#24



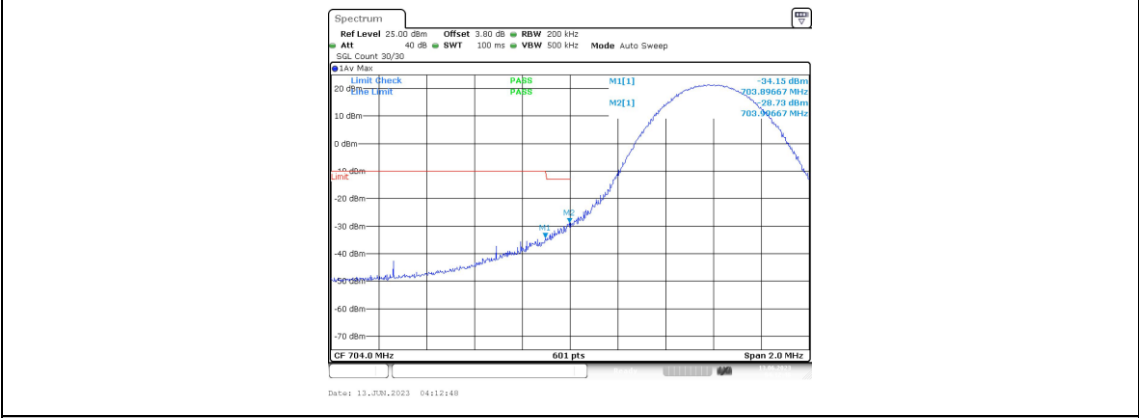
Band17-5MHz-16QAM-23825-1RB#24



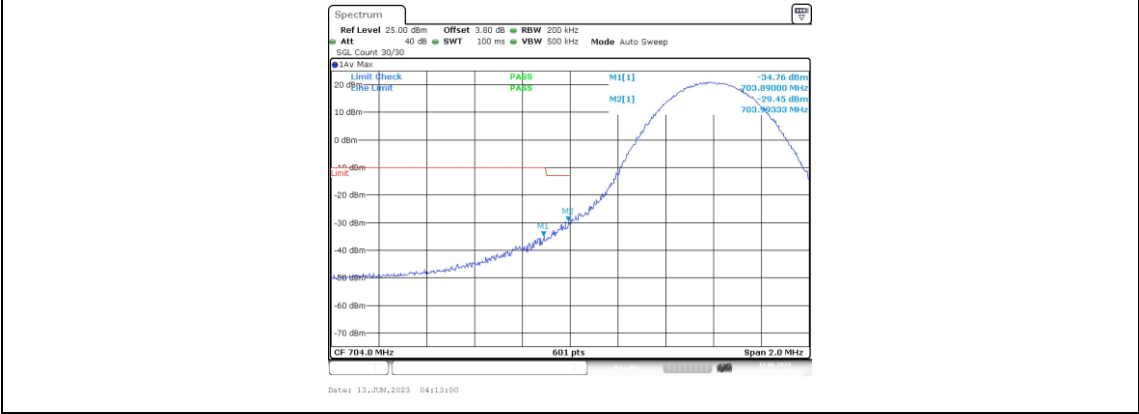
Band17-5MHz-QPSK-23825-25RB#0

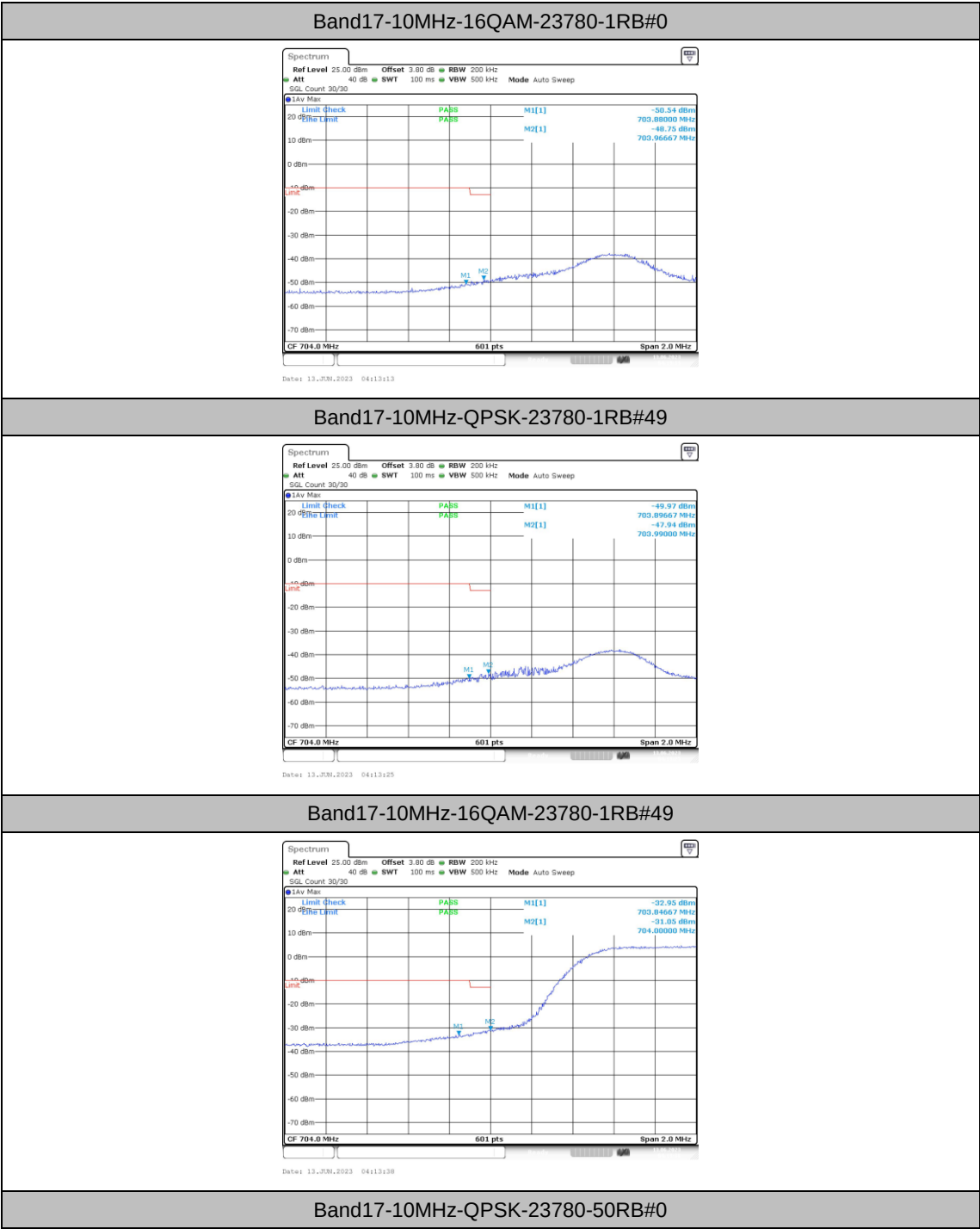


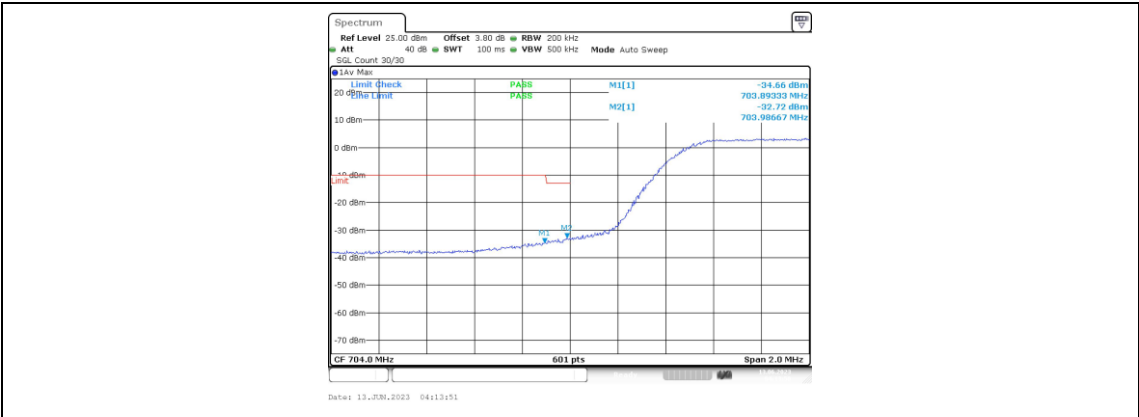
Band17-5MHz-16QAM-23825-25RB#0



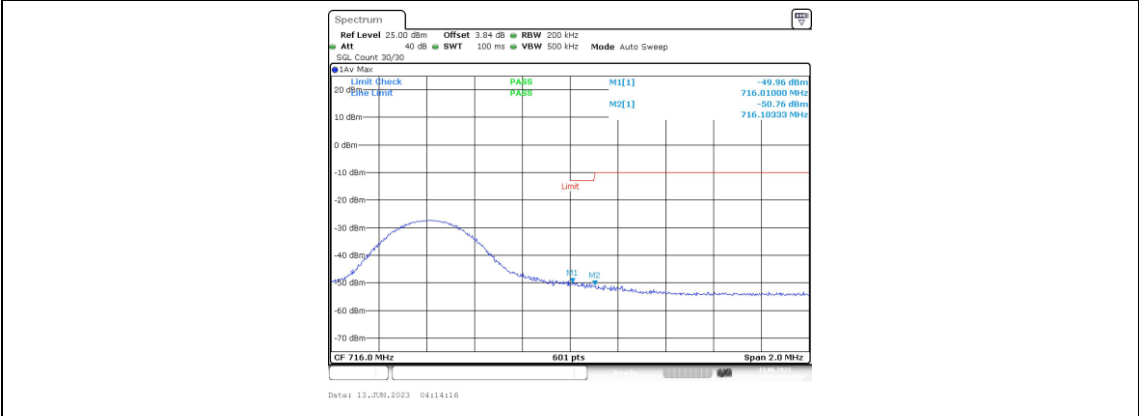
Band17-10MHz-QPSK-23780-1RB#0



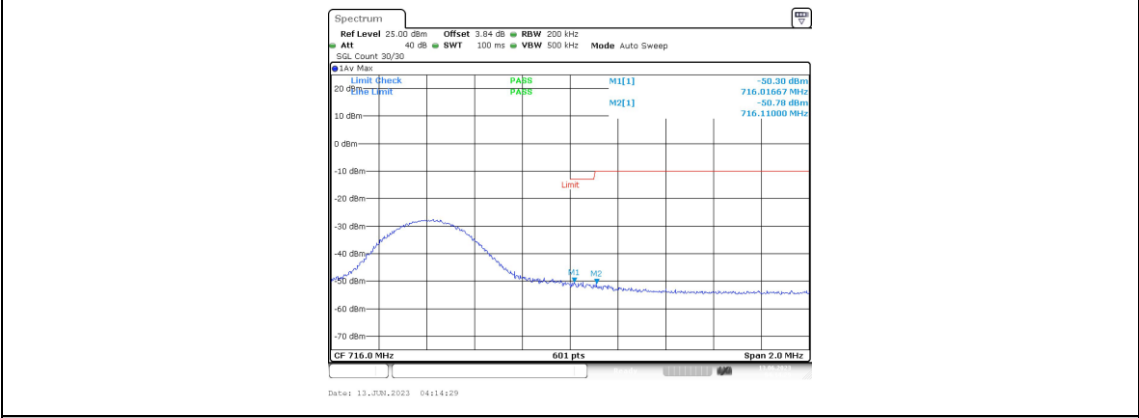




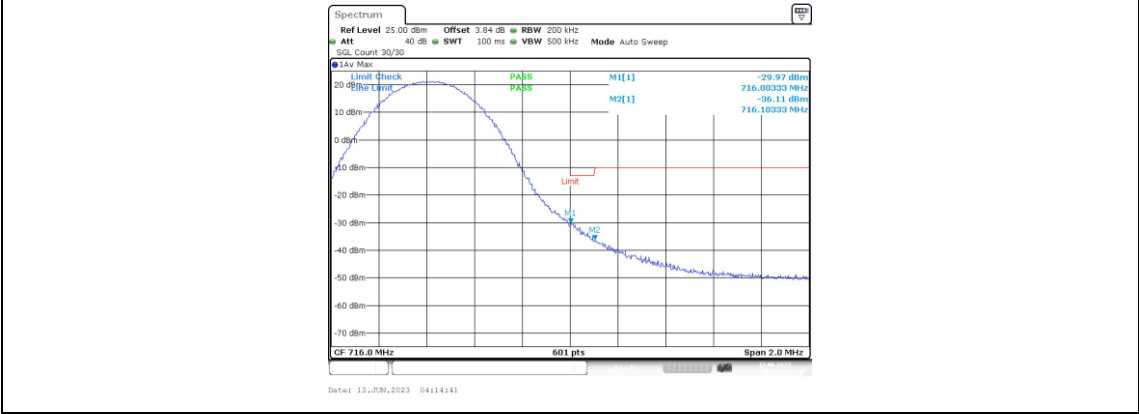
Band17-10MHz-16QAM-23780-50RB#0

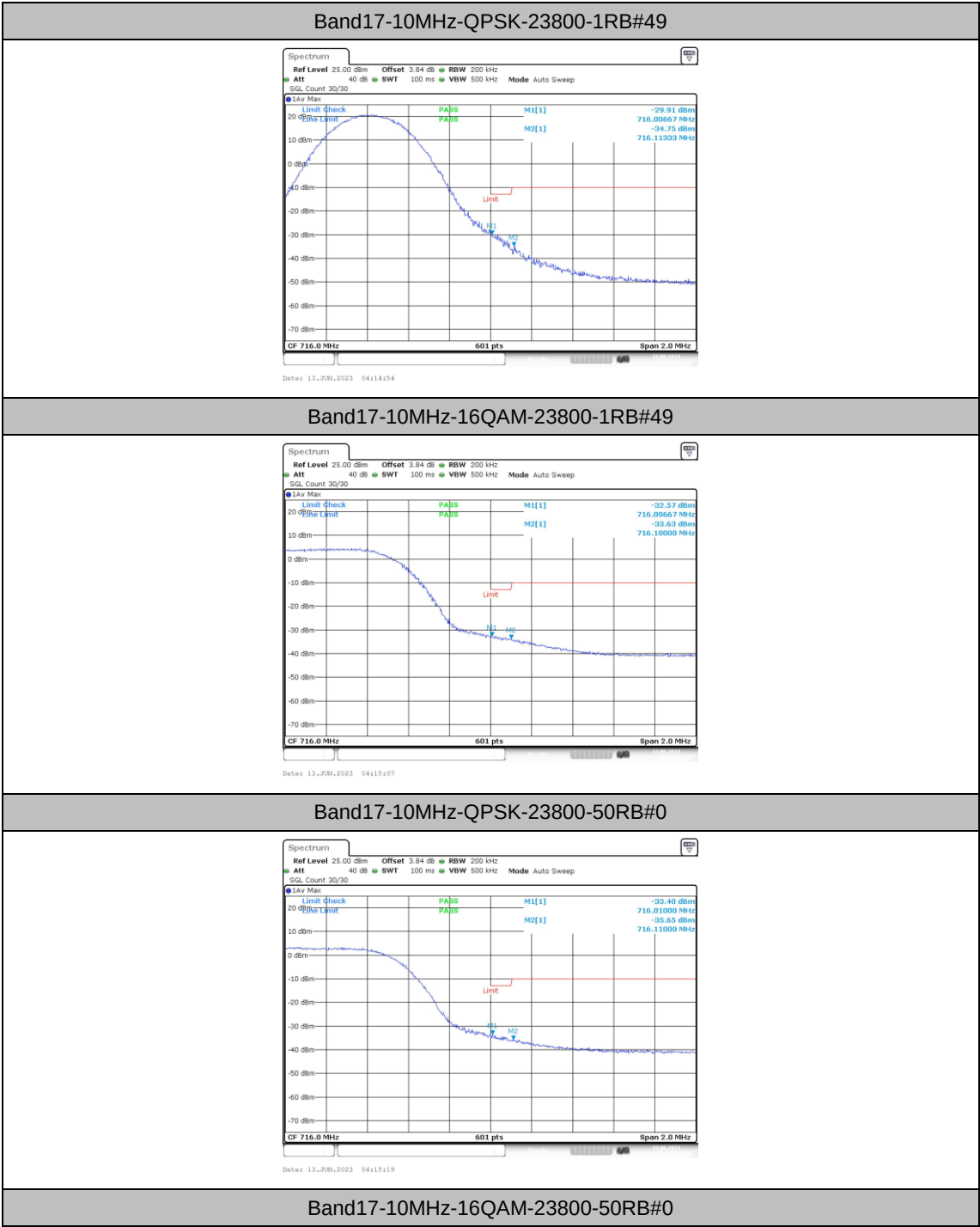


Band17-10MHz-QPSK-23800-1RB#0



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





Appendix E: Conducted Spurious Emission

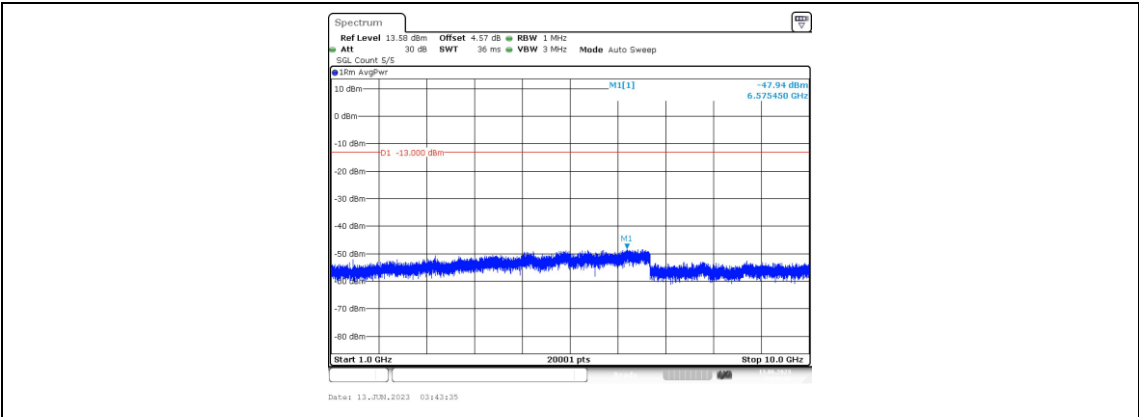
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15M Hz	-50.18	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-74.58	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-67.04	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~10000 MHz	-47.94	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15M Hz	-52.47	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-75.8	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-66.94	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~10000 MHz	-47.63	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15M Hz	-51.52	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-74.72	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-66.99	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~10000 MHz	-47.33	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15M Hz	-55.17	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-74.47	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-67.05	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~10000 MHz	-47.54	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15M Hz	-53.31	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-73.74	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-67.16	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~10000 MHz	-47.44	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15M Hz	-57.5	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-74.39	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-67.28	PASS

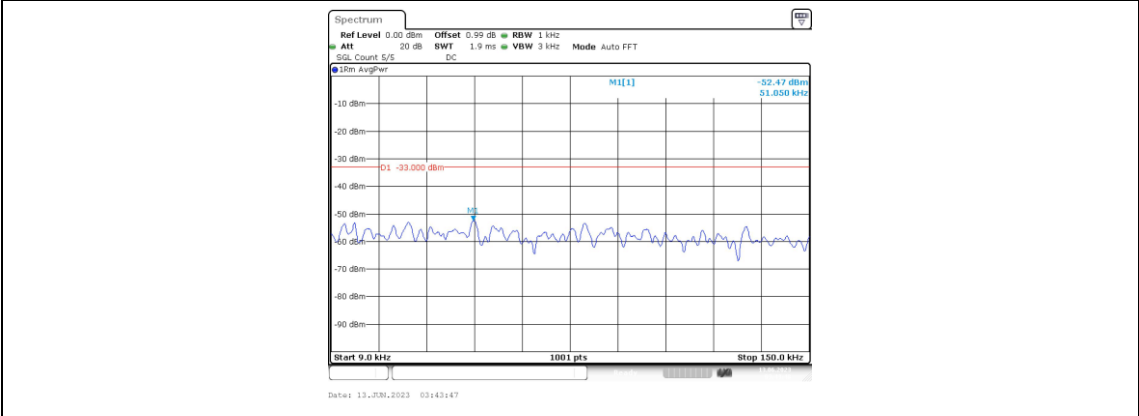
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~10000 MHz	-47.76	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15M Hz	-47.76	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-74.19	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-66.72	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~10000 MHz	-47.12	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15M Hz	-52.11	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-73.74	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-66.79	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~10000 MHz	-47.91	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15M Hz	-49.58	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-74.49	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-66.98	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~10000 MHz	-46.93	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15M Hz	-50.54	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-73.54	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-66.49	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~10000 MHz	-47.93	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15M Hz	-51.25	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-74.36	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-67.24	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~10000 MHz	-46.94	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15M Hz	-53.54	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-74.09	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-66.95	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~10000 MHz	-46.96	PASS

Test Graphs

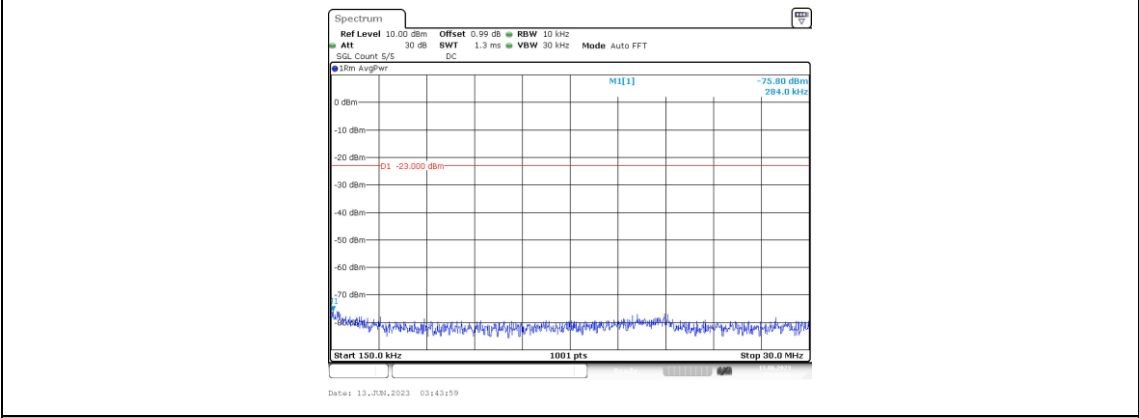




Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~10000MHz



Band17-5MHz-16QAM-23755-1RB#0-Range1:0.009~0.15MHz



Band17-5MHz-16QAM-23755-1RB#0-Range2:0.15~30MHz

