

Appendix for Band 4

Product Name: CelluCORE 24

Model No: 119906

Appendix A: Average Power Output Data for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Result(dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	22.07	PASS
Band4	1.4MHz	19957	QPSK	1	5	21.86	PASS
Band4	1.4MHz	19957	QPSK	6	0	20.86	PASS
Band4	1.4MHz	20175	QPSK	1	0	21.46	PASS
Band4	1.4MHz	20175	QPSK	1	5	21.45	PASS
Band4	1.4MHz	20175	QPSK	6	0	20.39	PASS
Band4	1.4MHz	20393	QPSK	1	0	22.28	PASS
Band4	1.4MHz	20393	QPSK	1	5	21.93	PASS
Band4	1.4MHz	20393	QPSK	6	0	20.53	PASS
Band4	1.4MHz	19957	16QAM	1	0	21.12	PASS
Band4	1.4MHz	19957	16QAM	1	5	20.94	PASS
Band4	1.4MHz	19957	16QAM	6	0	20.51	PASS
Band4	1.4MHz	20175	16QAM	1	0	20.35	PASS
Band4	1.4MHz	20175	16QAM	1	5	20.67	PASS
Band4	1.4MHz	20175	16QAM	6	0	20.38	PASS
Band4	1.4MHz	20393	16QAM	1	0	21.78	PASS
Band4	1.4MHz	20393	16QAM	1	5	21.56	PASS
Band4	1.4MHz	20393	16QAM	6	0	20.45	PASS
Band4	3MHz	19965	QPSK	1	0	22.06	PASS
Band4	3MHz	19965	QPSK	1	5	21.97	PASS
Band4	3MHz	19965	QPSK	6	0	20.32	PASS
Band4	3MHz	20175	QPSK	1	0	21.50	PASS
Band4	3MHz	20175	QPSK	1	5	21.44	PASS
Band4	3MHz	20175	QPSK	6	0	20.55	PASS
Band4	3MHz	20385	QPSK	1	0	22.47	PASS
Band4	3MHz	20385	QPSK	1	5	21.94	PASS
Band4	3MHz	20385	QPSK	6	0	20.51	PASS
Band4	3MHz	19965	16QAM	1	0	20.86	PASS
Band4	3MHz	19965	16QAM	1	5	20.79	PASS
Band4	3MHz	19965	16QAM	6	0	20.53	PASS
Band4	3MHz	20175	16QAM	1	0	20.57	PASS
Band4	3MHz	20175	16QAM	1	5	20.48	PASS
Band4	3MHz	20175	16QAM	6	0	20.40	PASS
Band4	3MHz	20385	16QAM	1	0	21.21	PASS
Band4	3MHz	20385	16QAM	1	5	20.98	PASS
Band4	3MHz	20385	16QAM	6	0	20.52	PASS

Band4	5MHz	19975	QPSK	1	0	22.12	PASS
Band4	5MHz	19975	QPSK	1	5	21.80	PASS
Band4	5MHz	19975	QPSK	6	0	20.92	PASS
Band4	5MHz	20175	QPSK	1	0	21.63	PASS
Band4	5MHz	20175	QPSK	1	5	21.37	PASS
Band4	5MHz	20175	QPSK	6	0	20.41	PASS
Band4	5MHz	20375	QPSK	1	0	22.58	PASS
Band4	5MHz	20375	QPSK	1	5	22.03	PASS
Band4	5MHz	20375	QPSK	6	0	20.92	PASS
Band4	5MHz	19975	16QAM	1	0	21.81	PASS
Band4	5MHz	19975	16QAM	1	5	21.64	PASS
Band4	5MHz	19975	16QAM	6	0	21.02	PASS
Band4	5MHz	20175	16QAM	1	0	21.77	PASS
Band4	5MHz	20175	16QAM	1	5	21.54	PASS
Band4	5MHz	20175	16QAM	6	0	20.41	PASS
Band4	5MHz	20375	16QAM	1	0	22.19	PASS
Band4	5MHz	20375	16QAM	1	5	21.88	PASS
Band4	5MHz	20375	16QAM	6	0	21.16	PASS
Band4	10MHz	20000	QPSK	1	0	21.99	PASS
Band4	10MHz	20000	QPSK	1	5	21.77	PASS
Band4	10MHz	20000	QPSK	6	0	21.02	PASS
Band4	10MHz	20175	QPSK	1	0	21.59	PASS
Band4	10MHz	20175	QPSK	1	5	21.29	PASS
Band4	10MHz	20175	QPSK	6	0	20.52	PASS
Band4	10MHz	20350	QPSK	1	0	22.61	PASS
Band4	10MHz	20350	QPSK	1	5	22.11	PASS
Band4	10MHz	20350	QPSK	6	0	21.04	PASS
Band4	10MHz	20000	16QAM	1	0	21.83	PASS
Band4	10MHz	20000	16QAM	1	5	21.66	PASS
Band4	10MHz	20000	16QAM	6	0	21.02	PASS
Band4	10MHz	20175	16QAM	1	0	21.98	PASS
Band4	10MHz	20175	16QAM	1	5	21.79	PASS
Band4	10MHz	20175	16QAM	6	0	20.34	PASS
Band4	10MHz	20350	16QAM	1	0	22.20	PASS
Band4	10MHz	20350	16QAM	1	5	21.86	PASS
Band4	10MHz	20350	16QAM	6	0	21.07	PASS
Band4	15MHz	20025	QPSK	1	0	22.20	PASS
Band4	15MHz	20025	QPSK	1	5	22.96	PASS
Band4	15MHz	20025	QPSK	6	0	22.97	PASS
Band4	15MHz	20175	QPSK	1	0	23.24	PASS
Band4	15MHz	20175	QPSK	1	5	23.10	PASS
Band4	15MHz	20175	QPSK	6	0	23.18	PASS

Band4	15MHz	20325	QPSK	1	0	23.27	PASS
Band4	15MHz	20325	QPSK	1	5	22.97	PASS
Band4	15MHz	20325	QPSK	6	0	22.82	PASS
Band4	15MHz	20025	16QAM	1	0	22.89	PASS
Band4	15MHz	20025	16QAM	1	5	22.73	PASS
Band4	15MHz	20025	16QAM	6	0	23.02	PASS
Band4	15MHz	20175	16QAM	1	0	23.50	PASS
Band4	15MHz	20175	16QAM	1	5	23.25	PASS
Band4	15MHz	20175	16QAM	6	0	23.06	PASS
Band4	15MHz	20325	16QAM	1	0	22.96	PASS
Band4	15MHz	20325	16QAM	1	5	22.76	PASS
Band4	15MHz	20325	16QAM	6	0	22.85	PASS
Band4	20MHz	20050	QPSK	1	0	23.25	PASS
Band4	20MHz	20050	QPSK	1	5	22.94	PASS
Band4	20MHz	20050	QPSK	6	0	23.08	PASS
Band4	20MHz	20175	QPSK	1	0	23.42	PASS
Band4	20MHz	20175	QPSK	1	5	23.19	PASS
Band4	20MHz	20175	QPSK	6	0	23.23	PASS
Band4	20MHz	20300	QPSK	1	0	23.40	PASS
Band4	20MHz	20300	QPSK	1	5	23.11	PASS
Band4	20MHz	20300	QPSK	6	0	22.88	PASS
Band4	20MHz	20050	16QAM	1	0	22.93	PASS
Band4	20MHz	20050	16QAM	1	5	22.77	PASS
Band4	20MHz	20050	16QAM	6	0	23.17	PASS
Band4	20MHz	20175	16QAM	1	0	23.56	PASS
Band4	20MHz	20175	16QAM	1	5	23.34	PASS
Band4	20MHz	20175	16QAM	6	0	23.12	PASS
Band4	20MHz	20300	16QAM	1	0	23.09	PASS
Band4	20MHz	20300	16QAM	1	5	22.90	PASS
Band4	20MHz	20300	16QAM	6	0	23.02	PASS

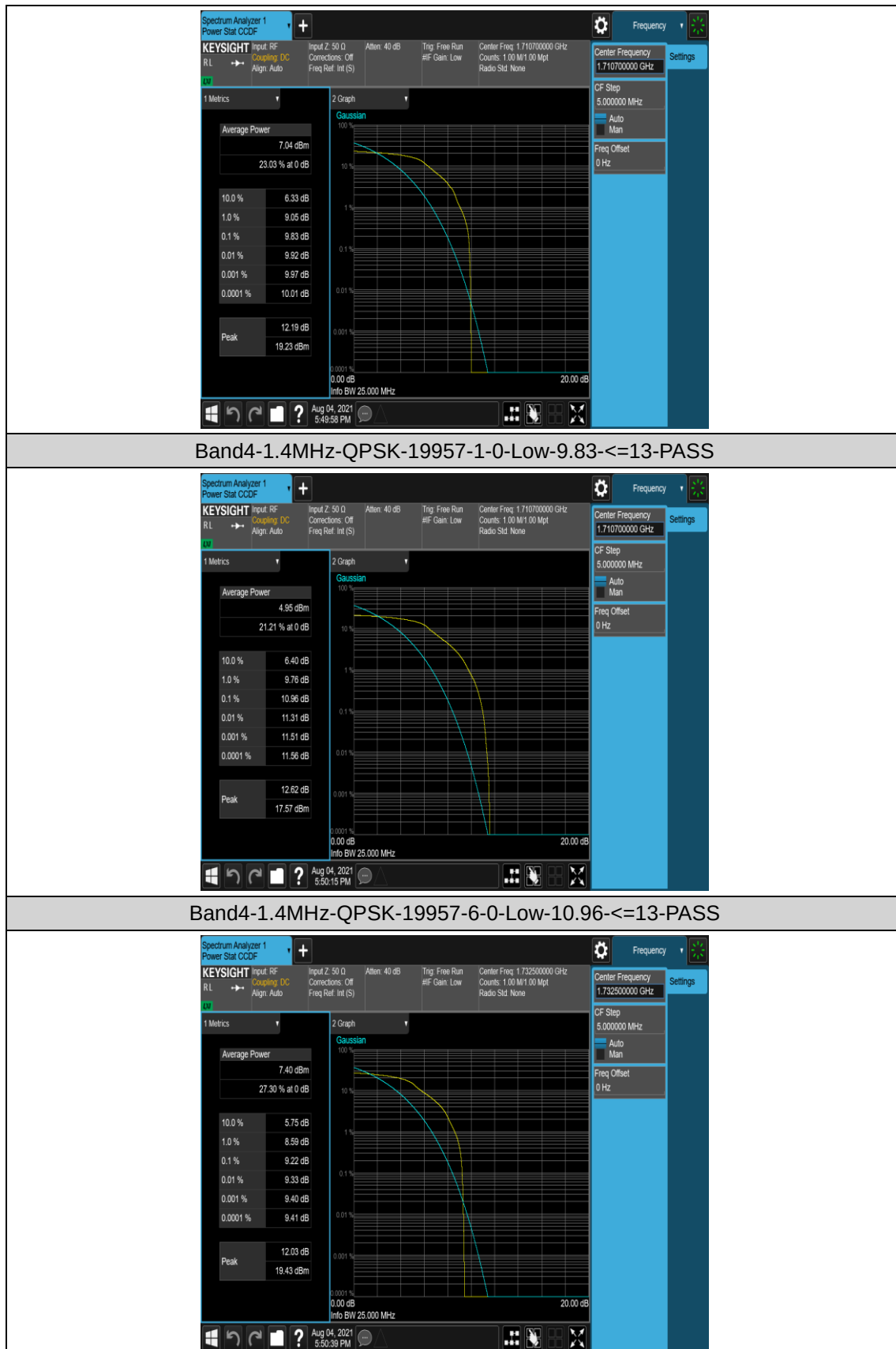
Appendix B: Peak-to-Average Ratio(CCDF) for M1

Test Result

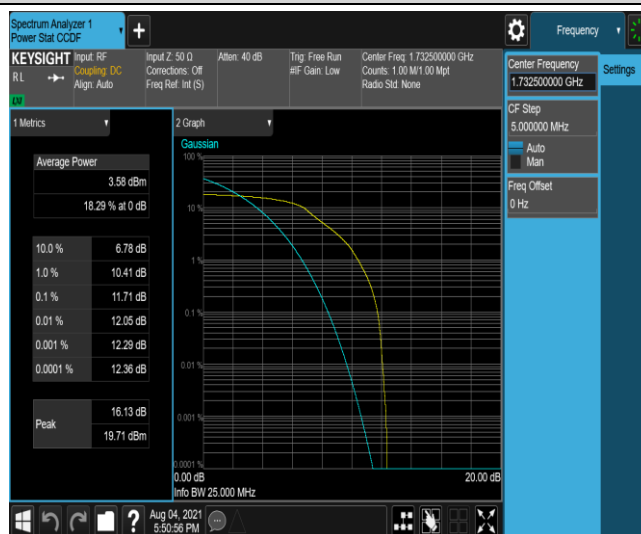
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	9.83	<=13	PASS
Band4	1.4MHz	19957	QPSK	6	0	10.96	<=13	PASS
Band4	1.4MHz	20175	QPSK	1	0	9.22	<=13	PASS
Band4	1.4MHz	20175	QPSK	6	0	11.71	<=13	PASS
Band4	1.4MHz	20393	QPSK	1	0	11.70	<=13	PASS
Band4	1.4MHz	20393	QPSK	6	0	10.17	<=13	PASS
Band4	1.4MHz	19957	16QAM	1	0	9.74	<=13	PASS
Band4	1.4MHz	19957	16QAM	6	0	8.89	<=13	PASS
Band4	1.4MHz	20175	16QAM	1	0	11.79	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	10.22	<=13	PASS
Band4	1.4MHz	20393	16QAM	1	0	10.88	<=13	PASS
Band4	1.4MHz	20393	16QAM	6	0	9.95	<=13	PASS
Band4	3MHz	19965	QPSK	1	0	8.99	<=13	PASS
Band4	3MHz	19965	QPSK	6	0	10.93	<=13	PASS
Band4	3MHz	20175	QPSK	1	0	8.72	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	9.81	<=13	PASS
Band4	3MHz	20385	QPSK	1	0	9.84	<=13	PASS
Band4	3MHz	20385	QPSK	6	0	9.67	<=13	PASS
Band4	3MHz	19965	16QAM	1	0	10.65	<=13	PASS
Band4	3MHz	19965	16QAM	6	0	11.81	<=13	PASS
Band4	3MHz	20175	16QAM	1	0	9.48	<=13	PASS
Band4	3MHz	20175	16QAM	6	0	9.75	<=13	PASS
Band4	3MHz	20385	16QAM	1	0	12.28	<=13	PASS
Band4	3MHz	20385	16QAM	6	0	12.42	<=13	PASS
Band4	5MHz	19975	QPSK	1	0	10.53	<=13	PASS
Band4	5MHz	19975	QPSK	6	0	10.05	<=13	PASS
Band4	5MHz	20175	QPSK	1	0	10.03	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	10.58	<=13	PASS
Band4	5MHz	20375	QPSK	1	0	8.36	<=13	PASS
Band4	5MHz	20375	QPSK	6	0	9.02	<=13	PASS
Band4	5MHz	19975	16QAM	1	0	10.05	<=13	PASS
Band4	5MHz	19975	16QAM	6	0	10.70	<=13	PASS
Band4	5MHz	20175	16QAM	1	0	10.40	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	7.91	<=13	PASS
Band4	5MHz	20375	16QAM	1	0	9.69	<=13	PASS

Band4	5MHz	20375	16QAM	6	0	9.51	<=13	PASS
Band4	10MHz	20000	QPSK	1	0	9.22	<=13	PASS
Band4	10MHz	20000	QPSK	6	0	8.63	<=13	PASS
Band4	10MHz	20175	QPSK	1	0	9.37	<=13	PASS
Band4	10MHz	20175	QPSK	6	0	9.99	<=13	PASS
Band4	10MHz	20350	QPSK	1	0	9.81	<=13	PASS
Band4	10MHz	20350	QPSK	6	0	9.06	<=13	PASS
Band4	10MHz	20000	16QAM	1	0	10.72	<=13	PASS
Band4	10MHz	20000	16QAM	6	0	9.83	<=13	PASS
Band4	10MHz	20175	16QAM	1	0	9.39	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	9.06	<=13	PASS
Band4	10MHz	20350	16QAM	1	0	9.65	<=13	PASS
Band4	10MHz	20350	16QAM	6	0	10.35	<=13	PASS
Band4	15MHz	20025	QPSK	1	0	10.31	<=13	PASS
Band4	15MHz	20025	QPSK	6	0	7.74	<=13	PASS
Band4	15MHz	20175	QPSK	1	0	9.18	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	10.10	<=13	PASS
Band4	15MHz	20325	QPSK	1	0	11.54	<=13	PASS
Band4	15MHz	20325	QPSK	6	0	10.45	<=13	PASS
Band4	15MHz	20025	16QAM	1	0	10.06	<=13	PASS
Band4	15MHz	20025	16QAM	6	0	11.15	<=13	PASS
Band4	15MHz	20175	16QAM	1	0	9.58	<=13	PASS
Band4	15MHz	20175	16QAM	6	0	9.23	<=13	PASS
Band4	15MHz	20325	16QAM	1	0	10.75	<=13	PASS
Band4	15MHz	20325	16QAM	6	0	9.23	<=13	PASS
Band4	20MHz	20050	QPSK	1	0	8.48	<=13	PASS
Band4	20MHz	20050	QPSK	6	0	8.09	<=13	PASS
Band4	20MHz	20175	QPSK	1	0	9.64	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	9.64	<=13	PASS
Band4	20MHz	20300	QPSK	1	0	8.89	<=13	PASS
Band4	20MHz	20300	QPSK	6	0	8.47	<=13	PASS
Band4	20MHz	20050	16QAM	1	0	8.34	<=13	PASS
Band4	20MHz	20050	16QAM	6	0	11.83	<=13	PASS
Band4	20MHz	20175	16QAM	1	0	8.74	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	10.65	<=13	PASS
Band4	20MHz	20300	16QAM	1	0	9.32	<=13	PASS
Band4	20MHz	20300	16QAM	6	0	11.33	<=13	PASS

Test Graphs



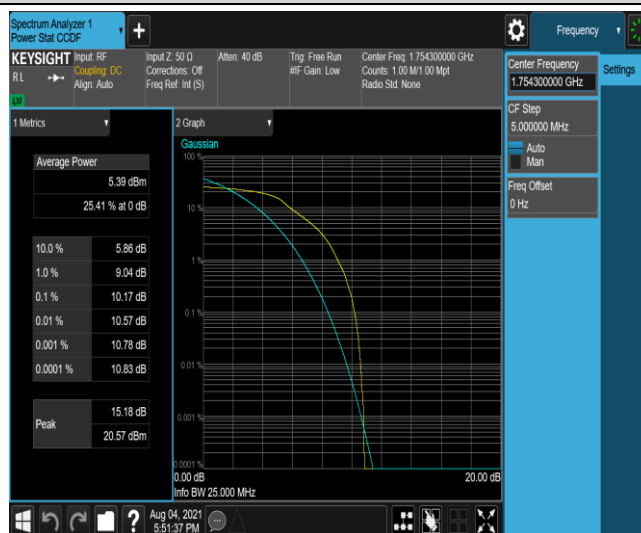
Band4-1.4MHz-QPSK-20175-1-0-Low-9.22-<=13-PASS



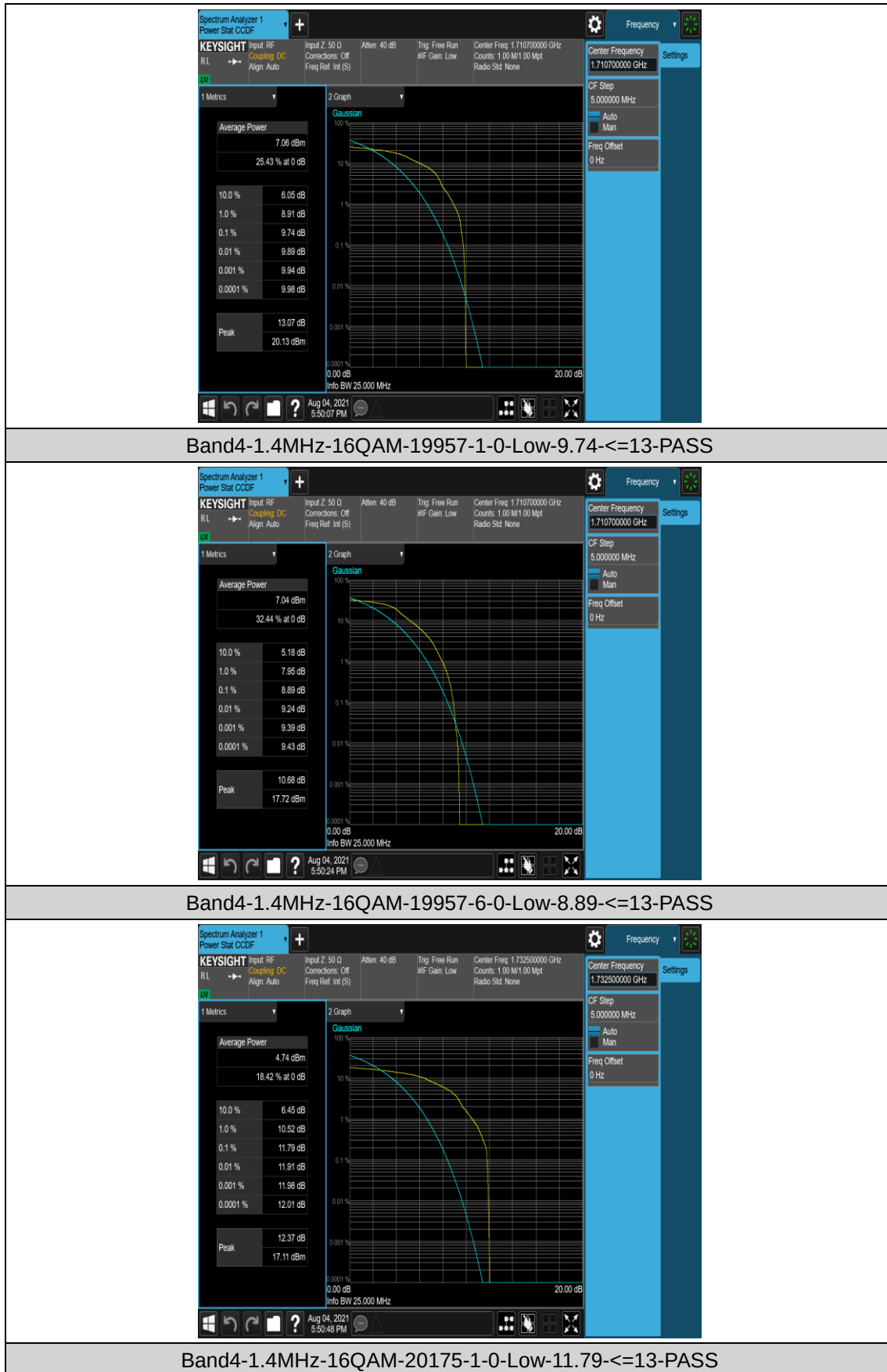
Band4-1.4MHz-QPSK-20175-6-0-Low-11.71-<=13-PASS



Band4-1.4MHz-QPSK-20393-1-0-High-11.70-<=13-PASS



Band4-1.4MHz-QPSK-20393-6-0-High-10.17-<=13-PASS





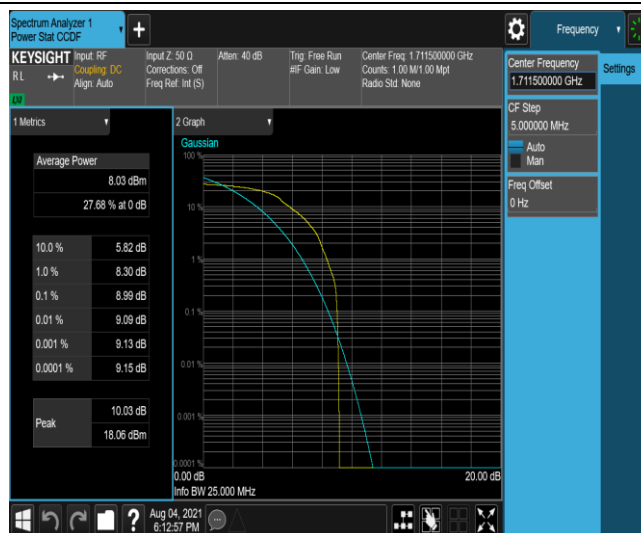
Band4-1.4MHz-16QAM-20175-6-0-Low-10.22-<=13-PASS



Band4-1.4MHz-16QAM-20393-1-0-High-10.88-<=13-PASS



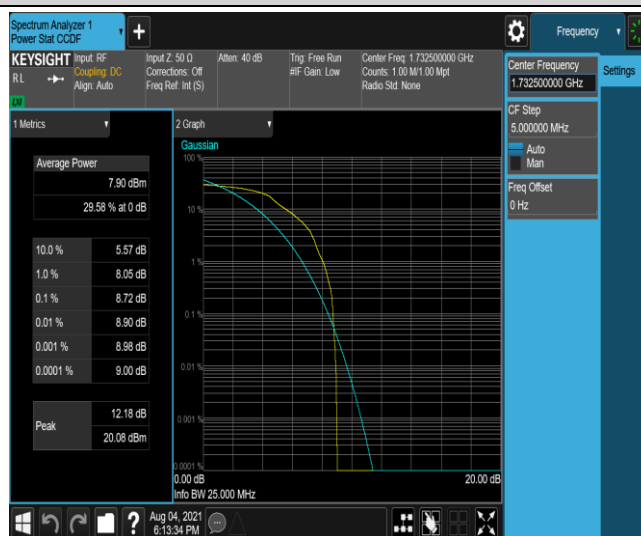
Band4-1.4MHz-16QAM-20393-6-0-High-9.95-<=13-PASS



Band4-3MHz-QPSK-19965-1-0-Low-8.99-<=13-PASS



Band4-3MHz-QPSK-19965-6-0-Low-10.93-<=13-PASS



Band4-3MHz-QPSK-20175-1-0-Low-8.72-<=13-PASS



Band4-3MHz-16QAM-20175-6-0-Low-9.75-<=13-PASS



Band4-3MHz-16QAM-20385-1-0-High-12.28-<=13-Pass



Band4-3MHz-16QAM-20385-6-0-High-12.42-<=13-PASS



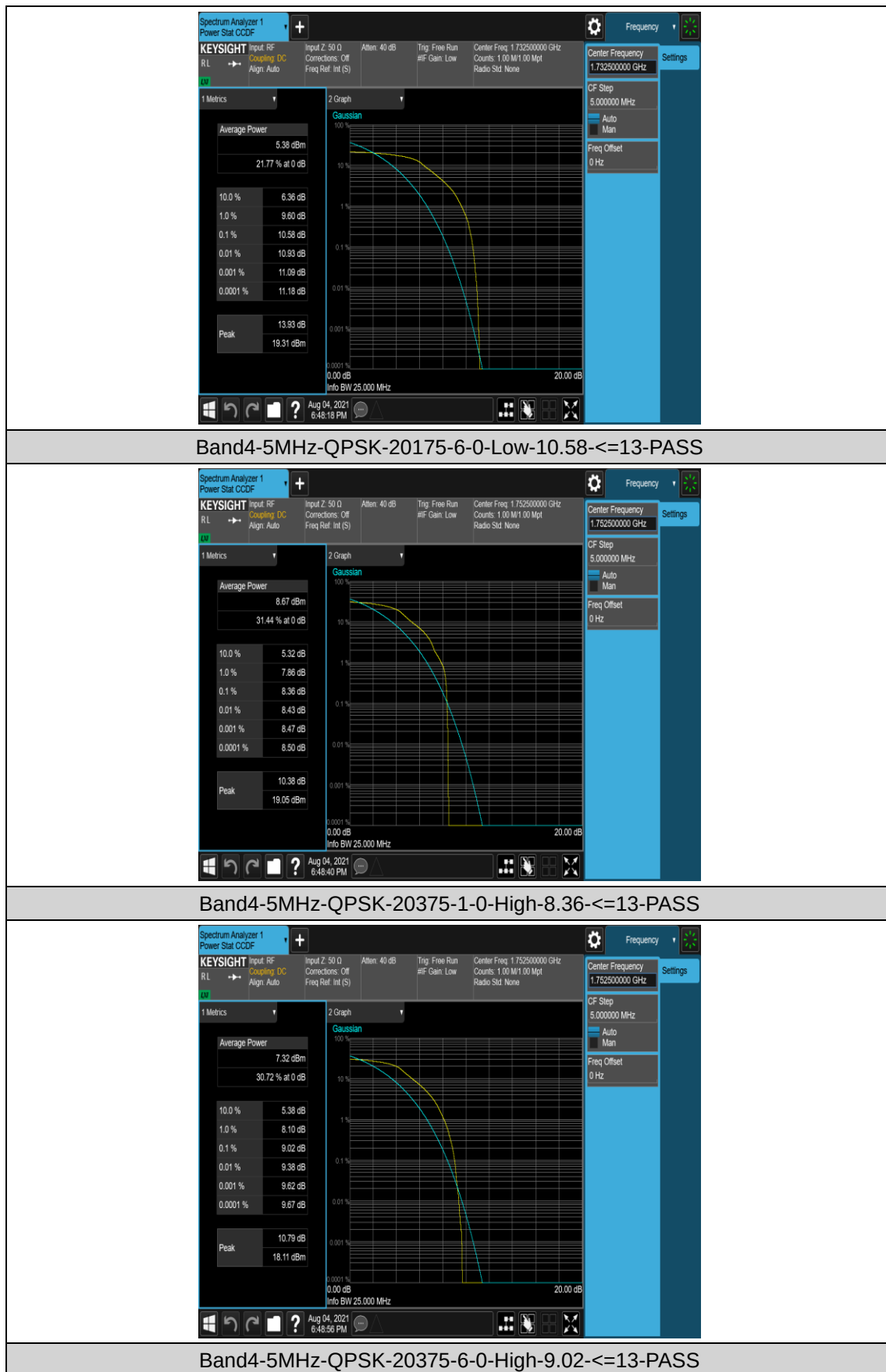
Band4-5MHz-QPSK-19975-1-0-Low-10.53-<=13-PASS



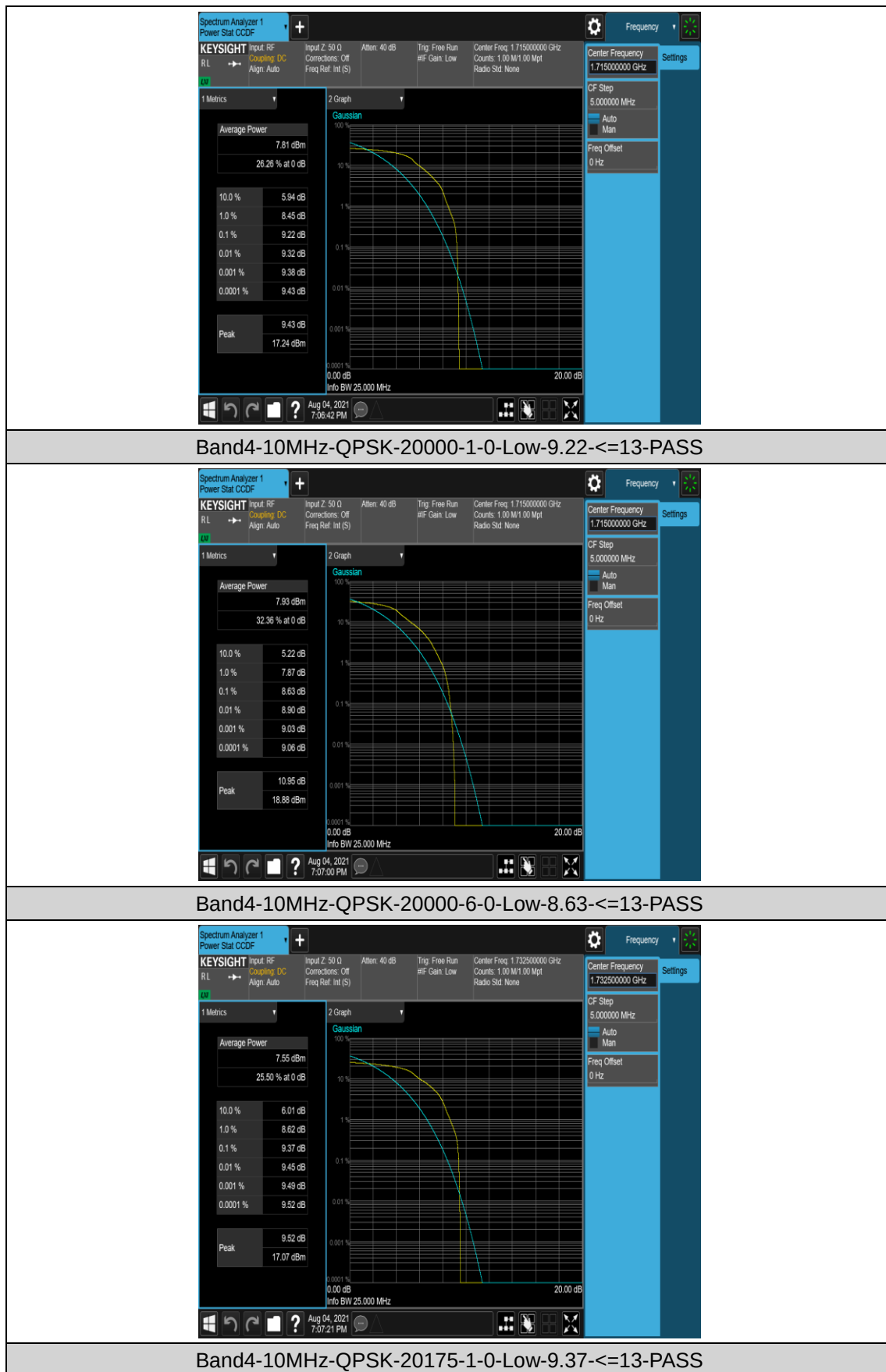
Band4-5MHz-QPSK-19975-6-0-Low-10.05-<=13-PASS

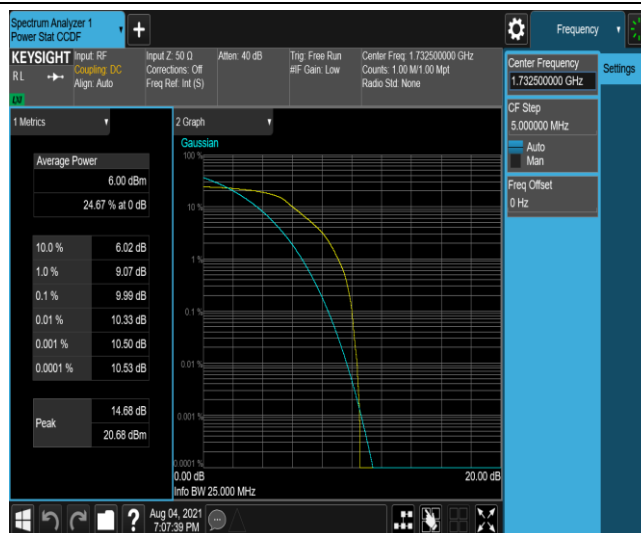


Band4-5MHz-QPSK-20175-1-0-Low-10.03-<=13-PASS

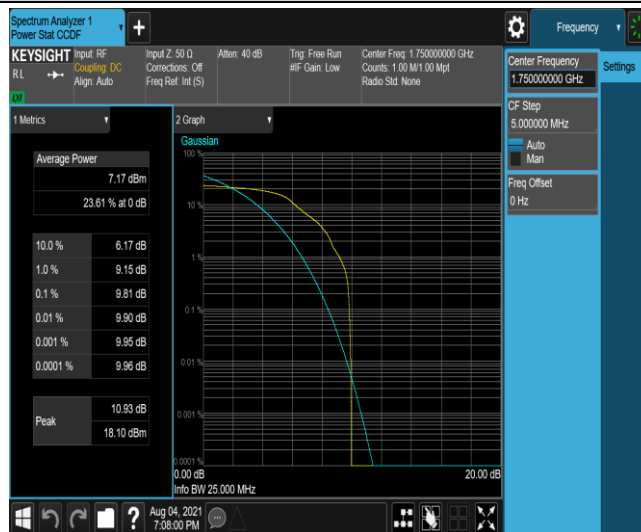




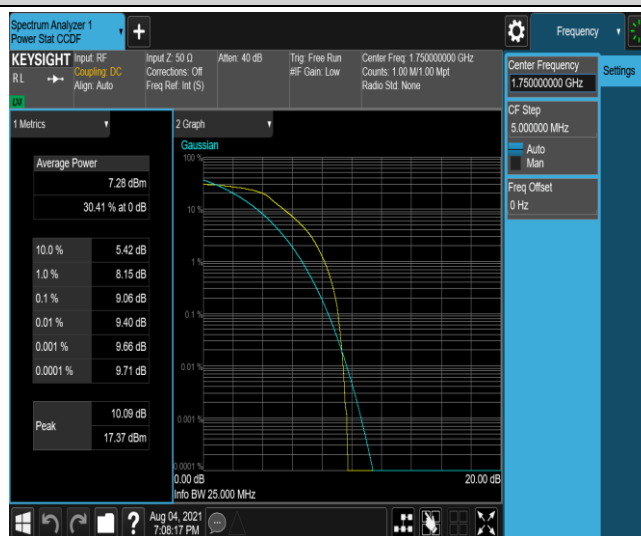




Band4-10MHz-QPSK-20175-6-0-Low-9.99-<=13-PASS



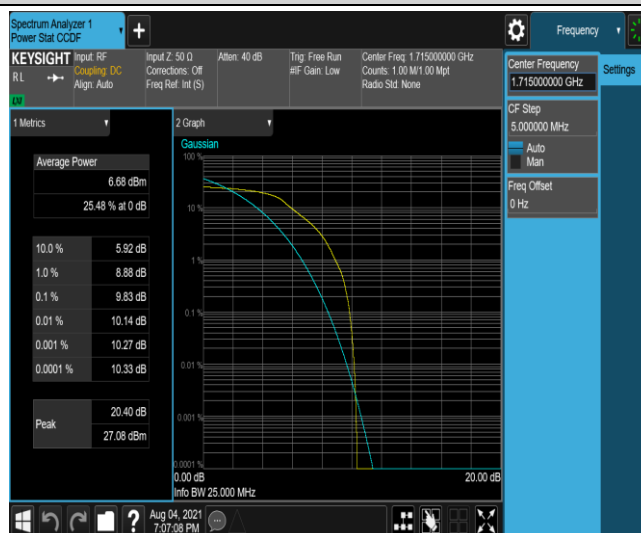
Band4-10MHz-QPSK-20350-1-0-High-9.81-<=13-PASS



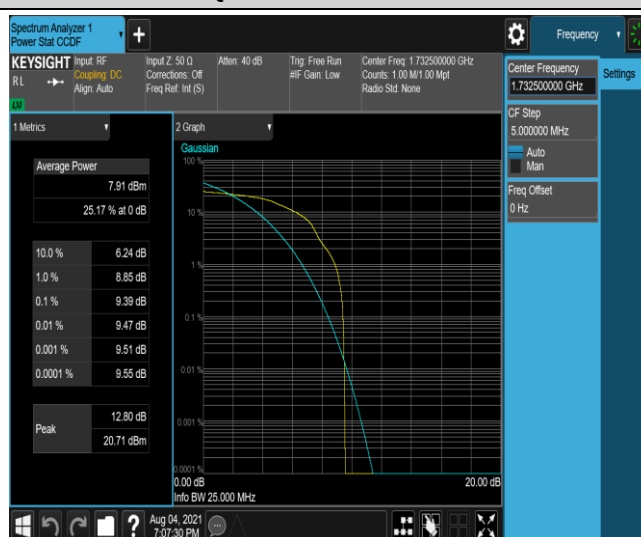
Band4-10MHz-QPSK-20350-6-0-High-9.06-<=13-PASS



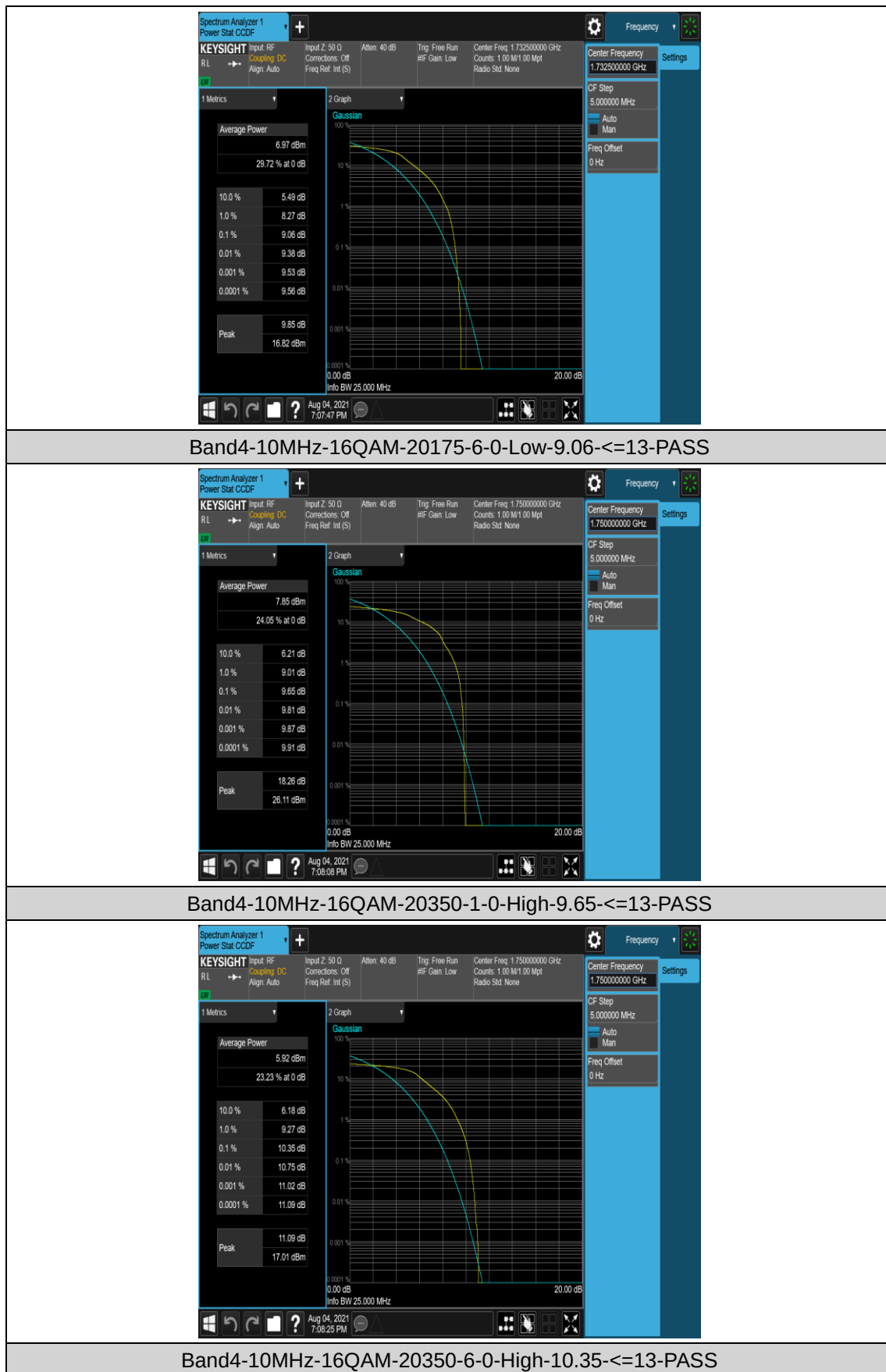
Band4-10MHz-16QAM-20000-1-0-Low-10.72-<=13-PASS

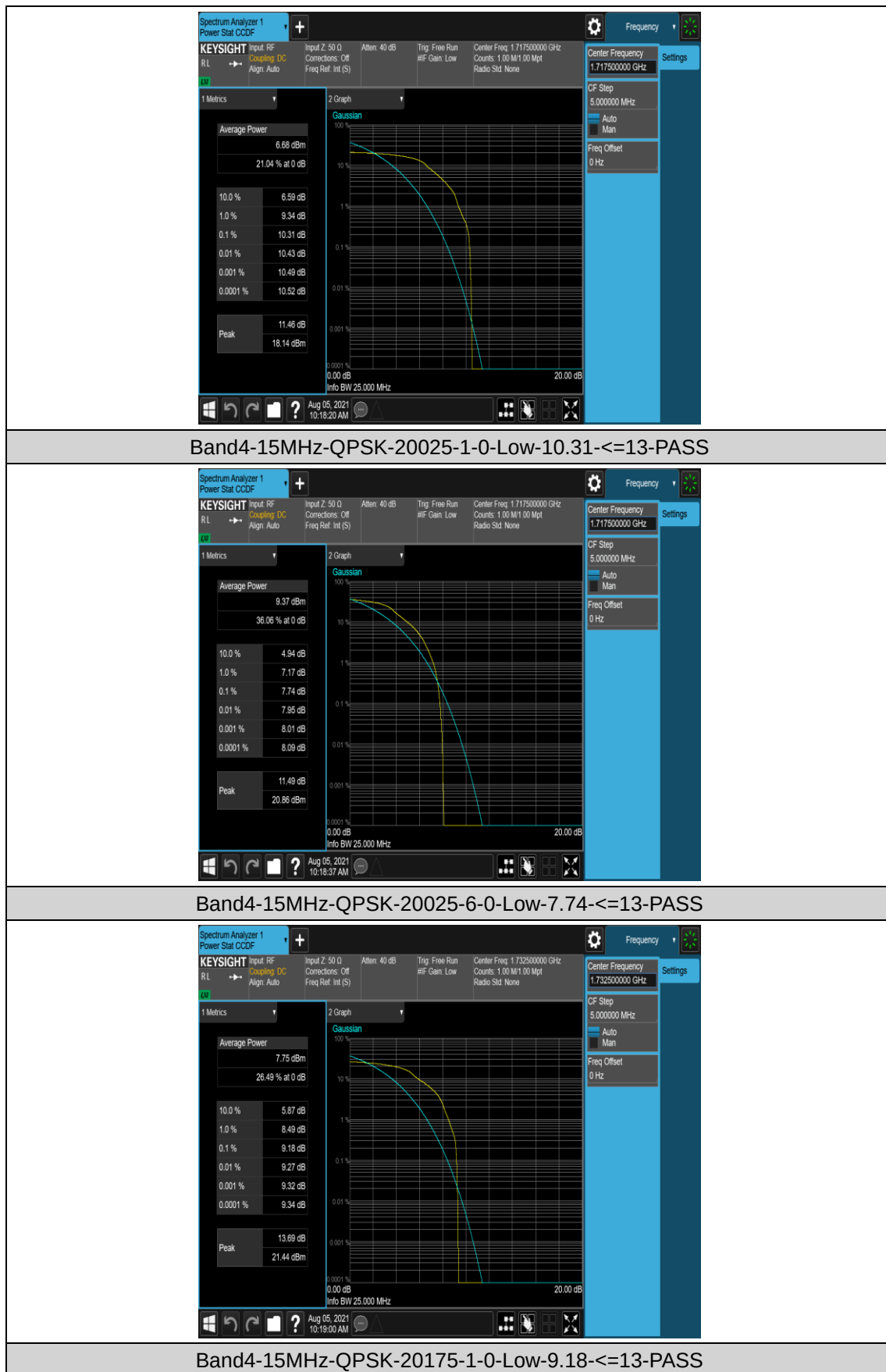


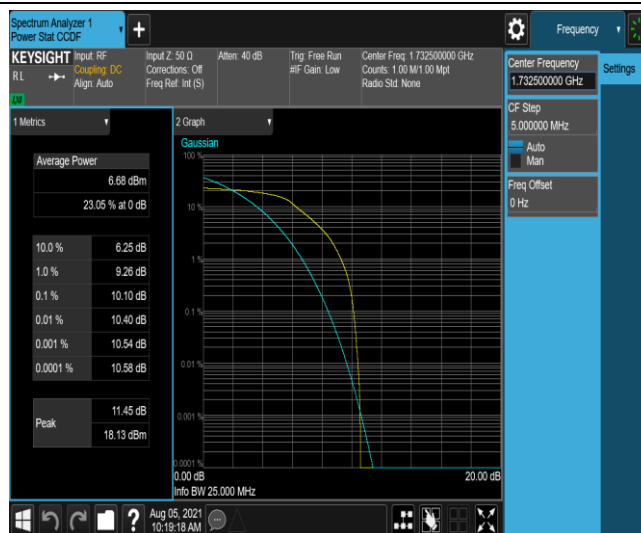
Band4-10MHz-16QAM-20000-6-0-Low-9.83-<=13-PASS



Band4-10MHz-16QAM-20175-1-0-Low-9.39-<=13-PASS



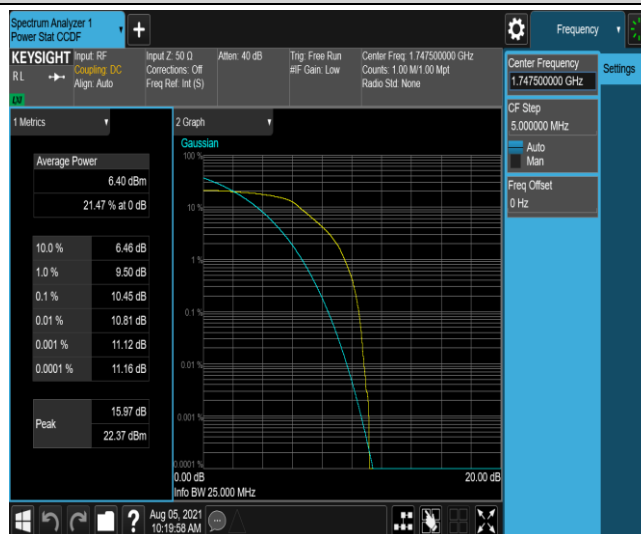




Band4-15MHz-QPSK-20175-6-0-Low-10.10-<=13-PASS



Band4-15MHz-QPSK-20325-1-0-High-11.54-<=13-PASS



Band4-15MHz-QPSK-20325-6-0-High-10.45-<=13-PASS

