



FCC Appendix RF Test Data for Band 41

Product Name: Smart Phone

Test Model: Philips S8310

Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang



1 Peak-to-Average Ratio(CCDF)

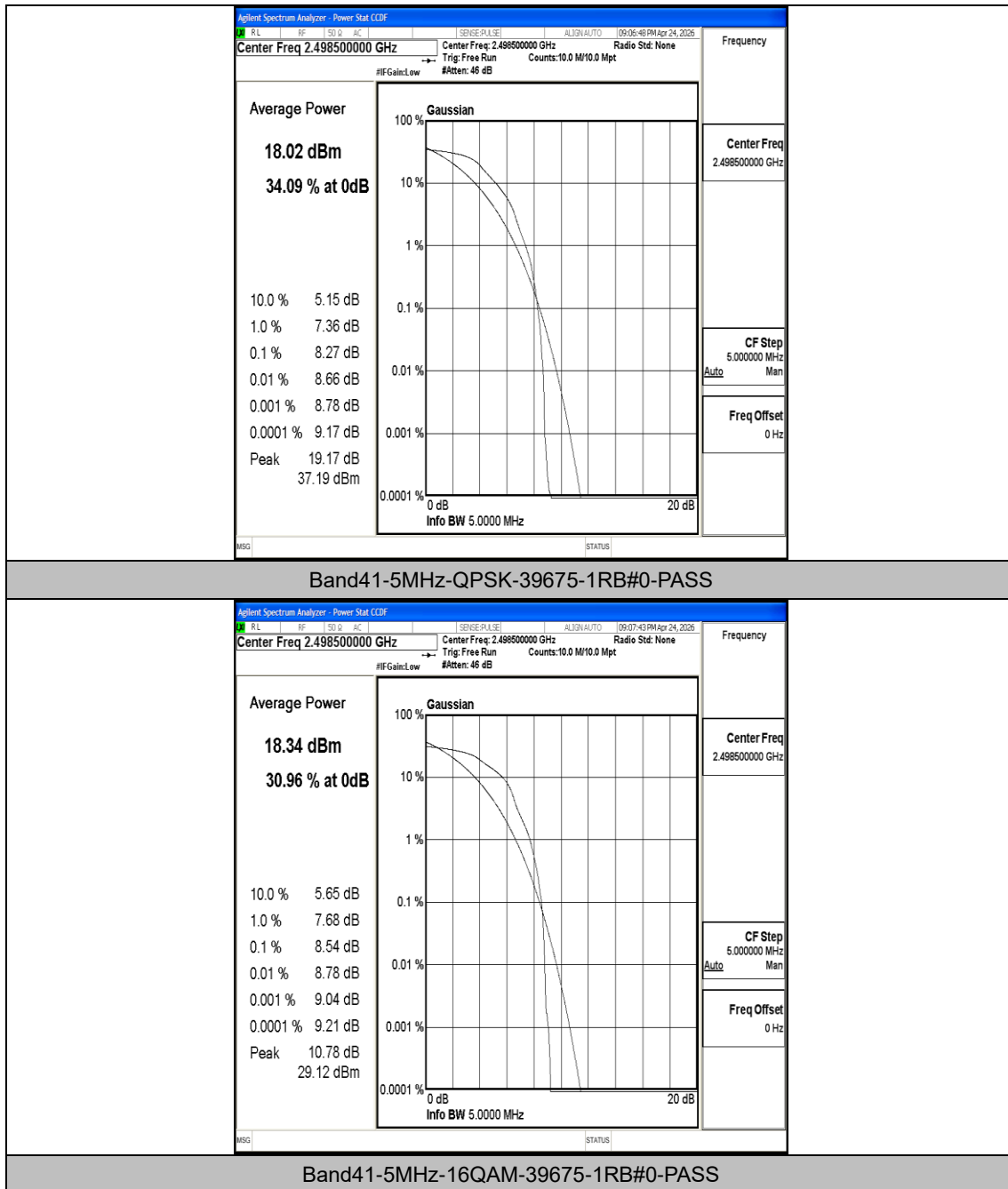
Test Result

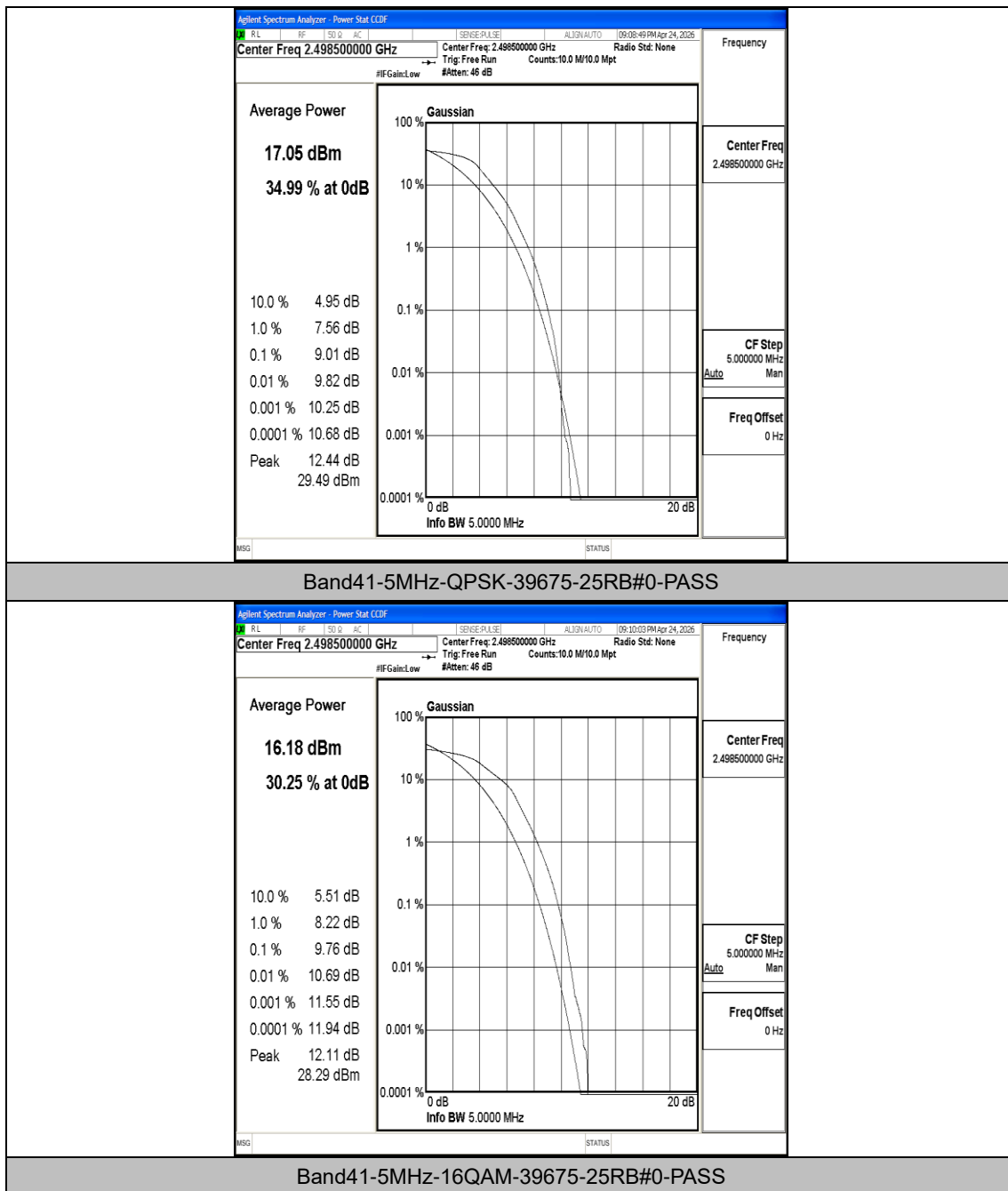
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	8.27	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	8.54	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	9.01	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.76	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.77	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	8.68	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.28	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.72	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	8.04	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.49	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.17	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.55	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	8.35	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	8.99	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.05	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.84	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.31	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	8.84	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.13	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.58	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	8.51	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	8.76	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.95	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.57	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.14	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	8.38	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	9.27	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.69	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.54	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	9.08	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.37	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.90	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.28	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	9.42	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	9.50	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	9.96	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	8.59	13	PASS

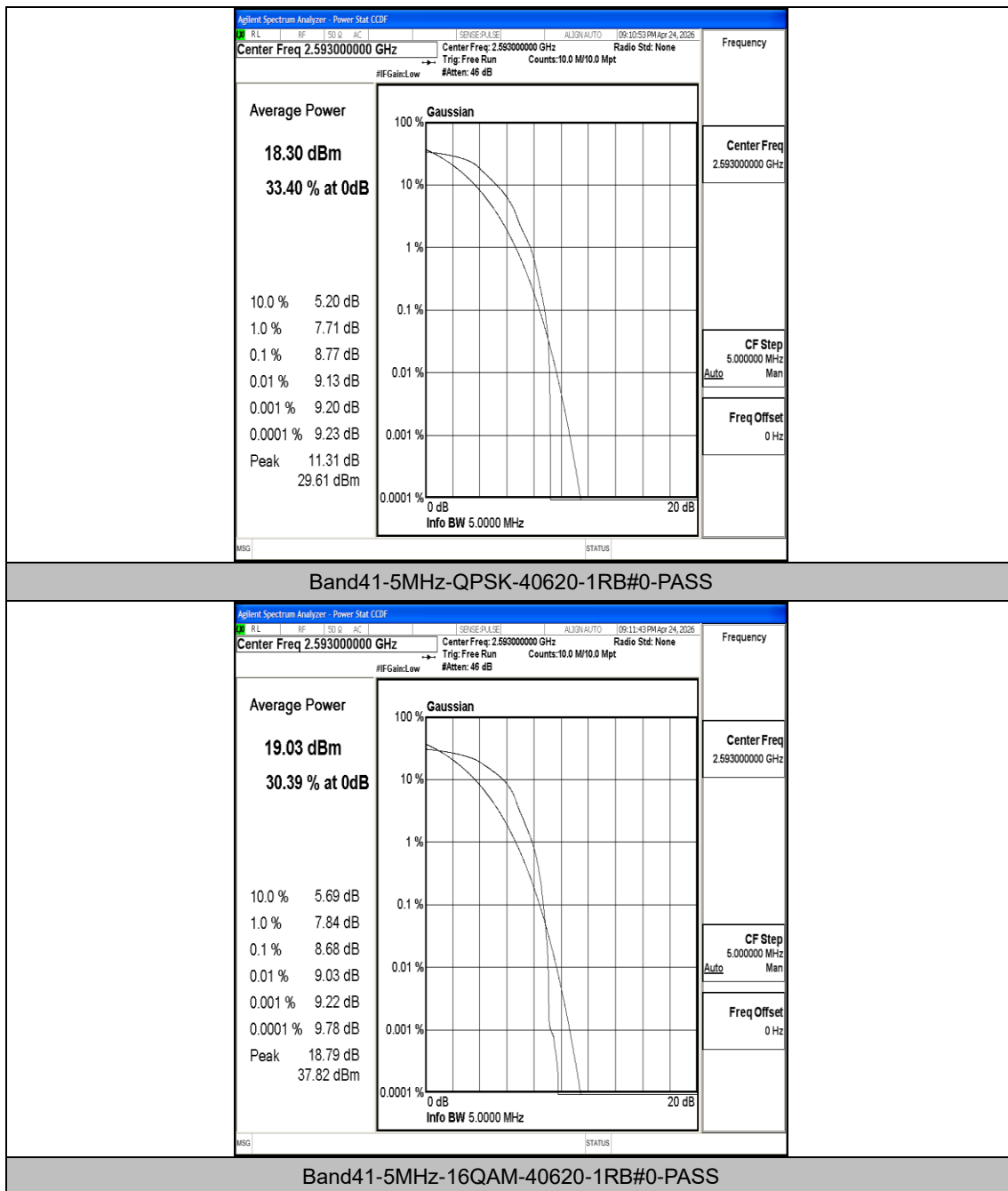


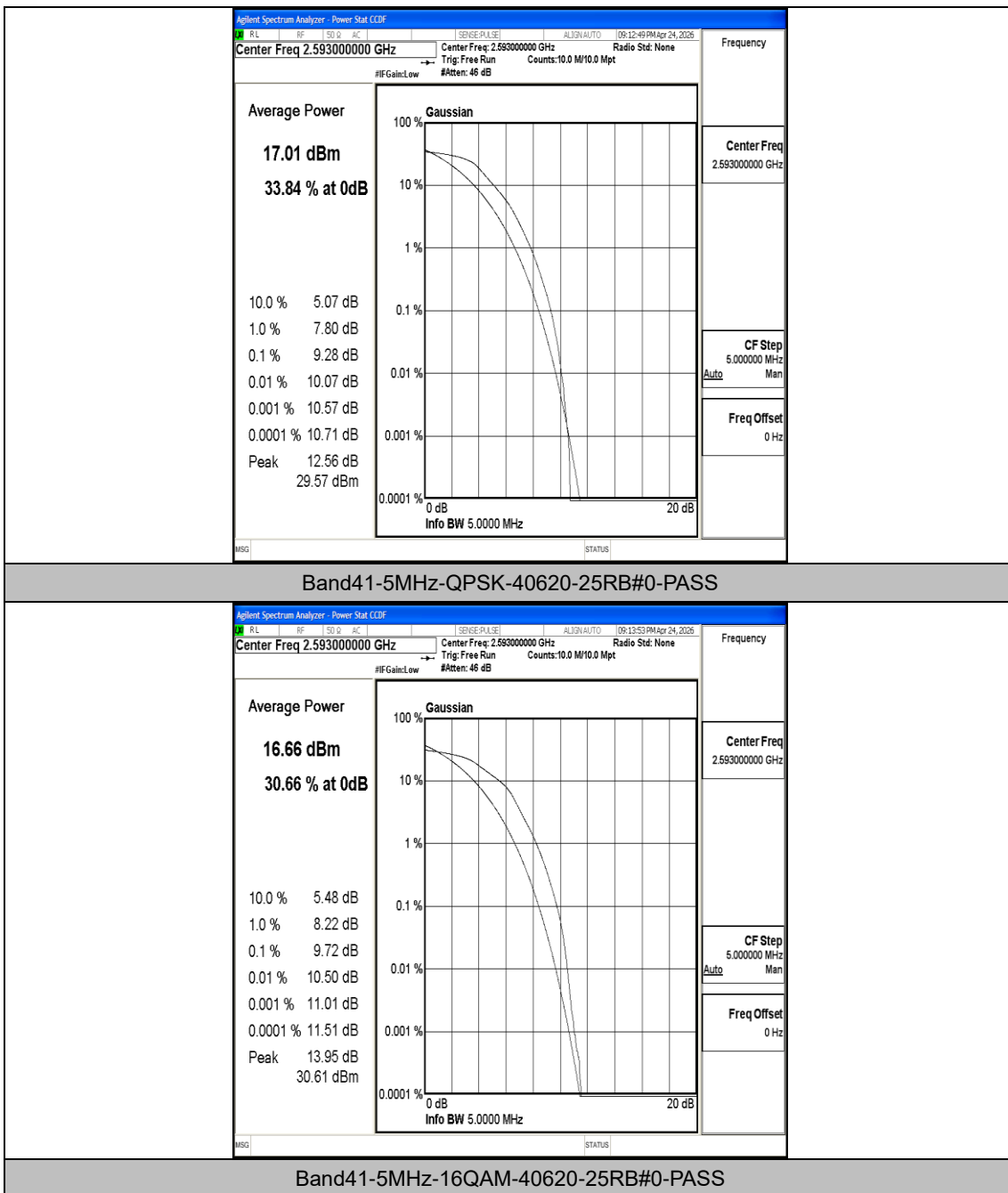
Band41	20MHz	16QAM	39750	1RB#0	9.36	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.09	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.53	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.47	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	8.81	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.97	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.73	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	8.15	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	8.56	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.42	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.84	13	PASS

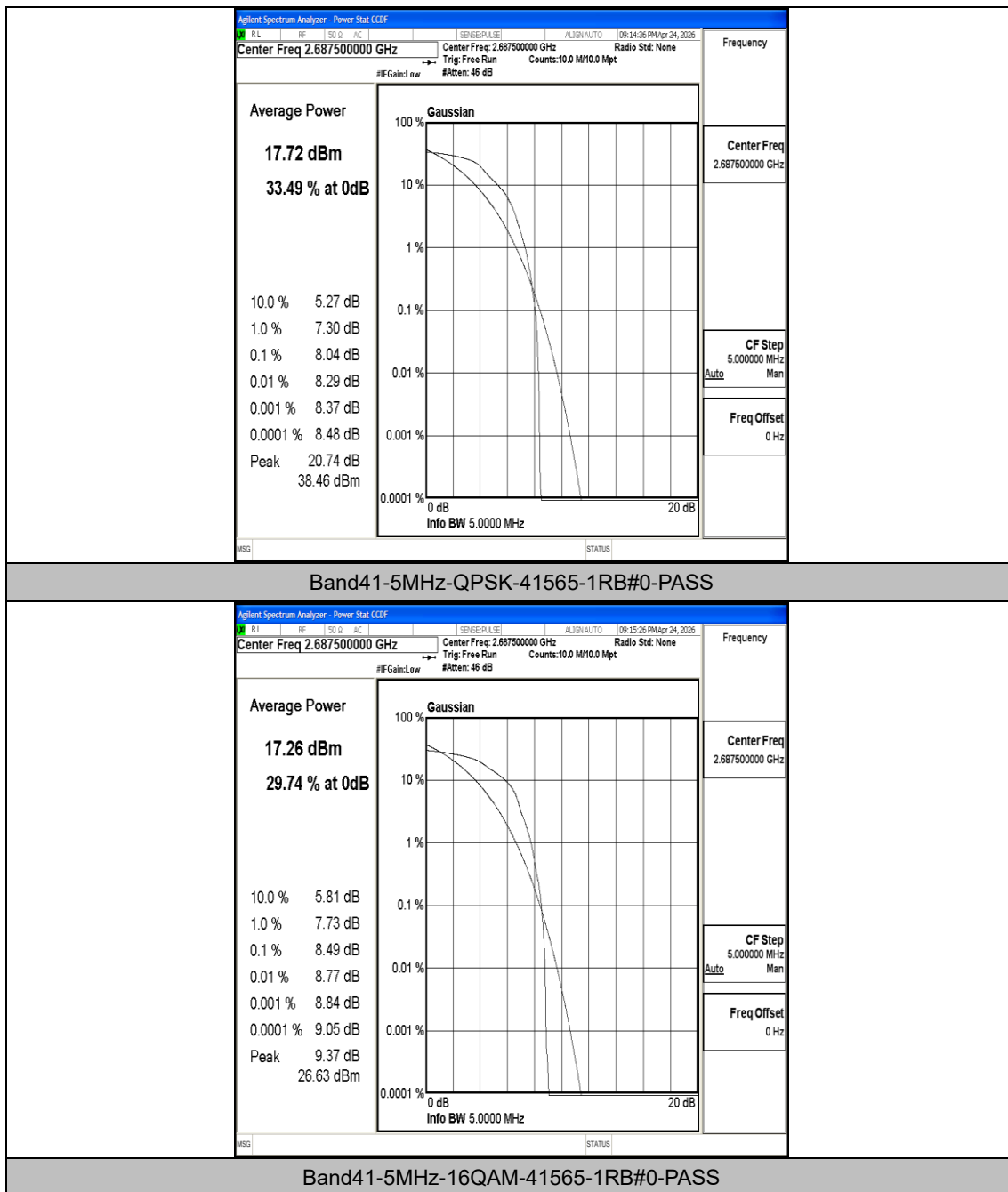
Test Graphs

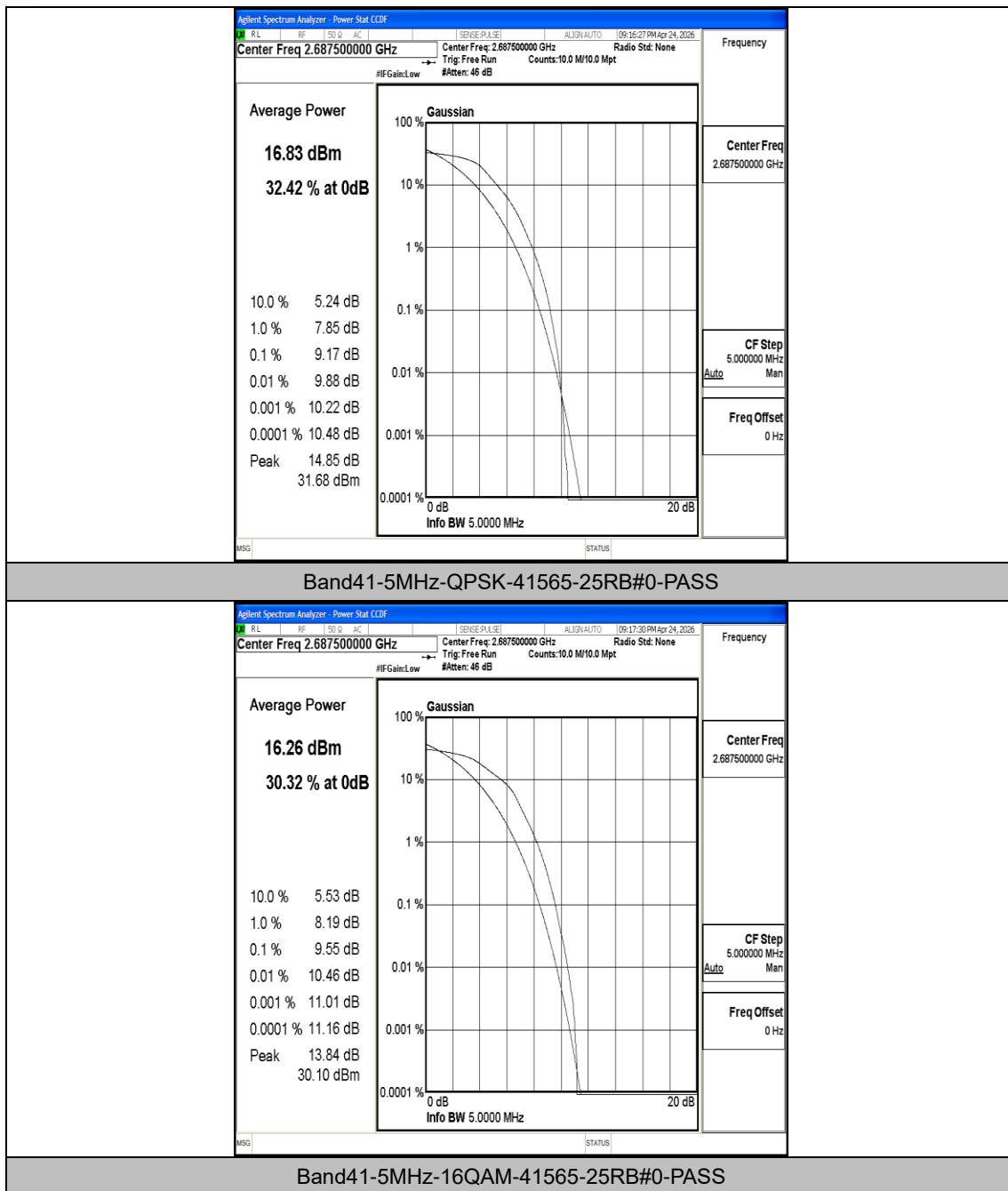


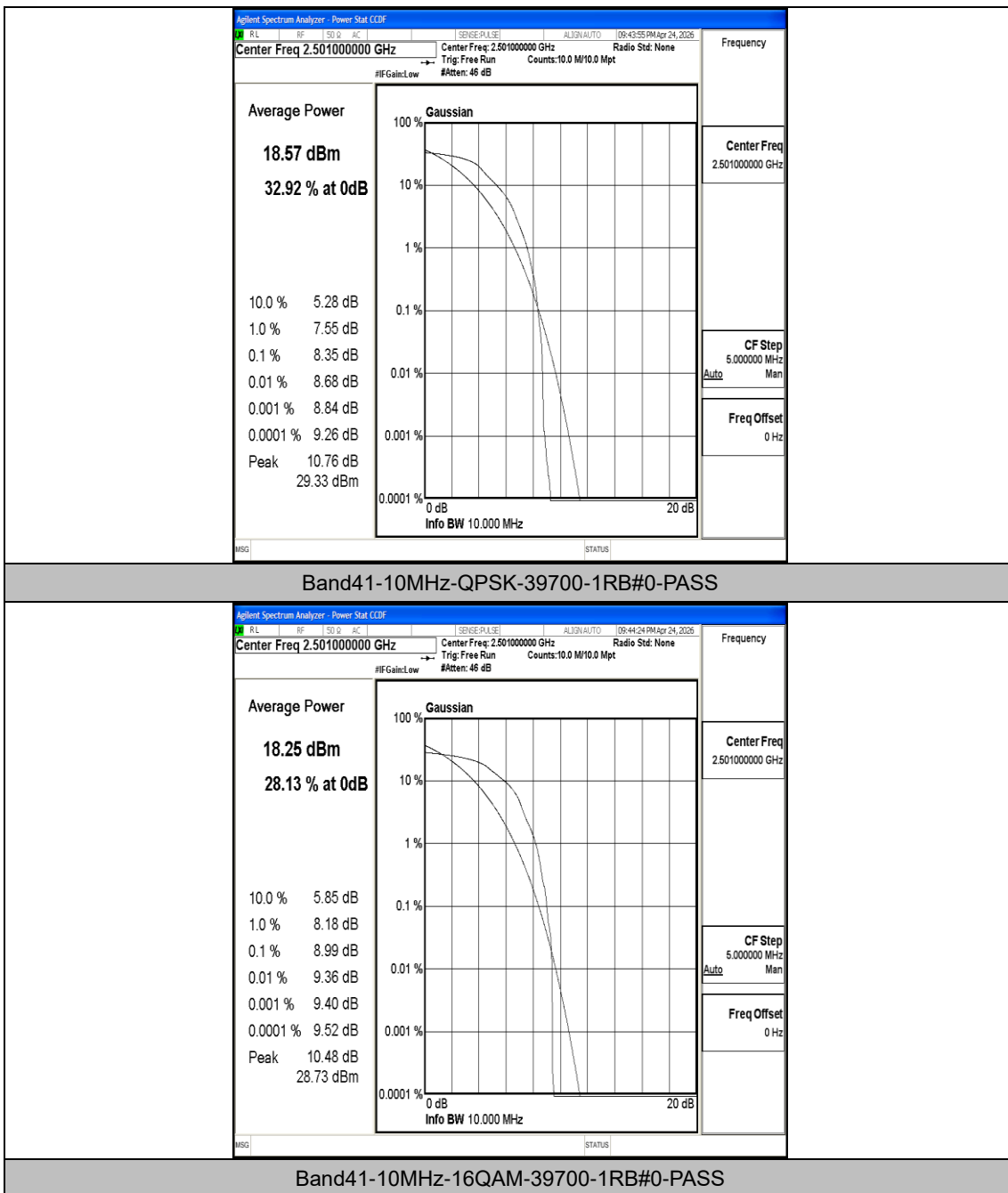


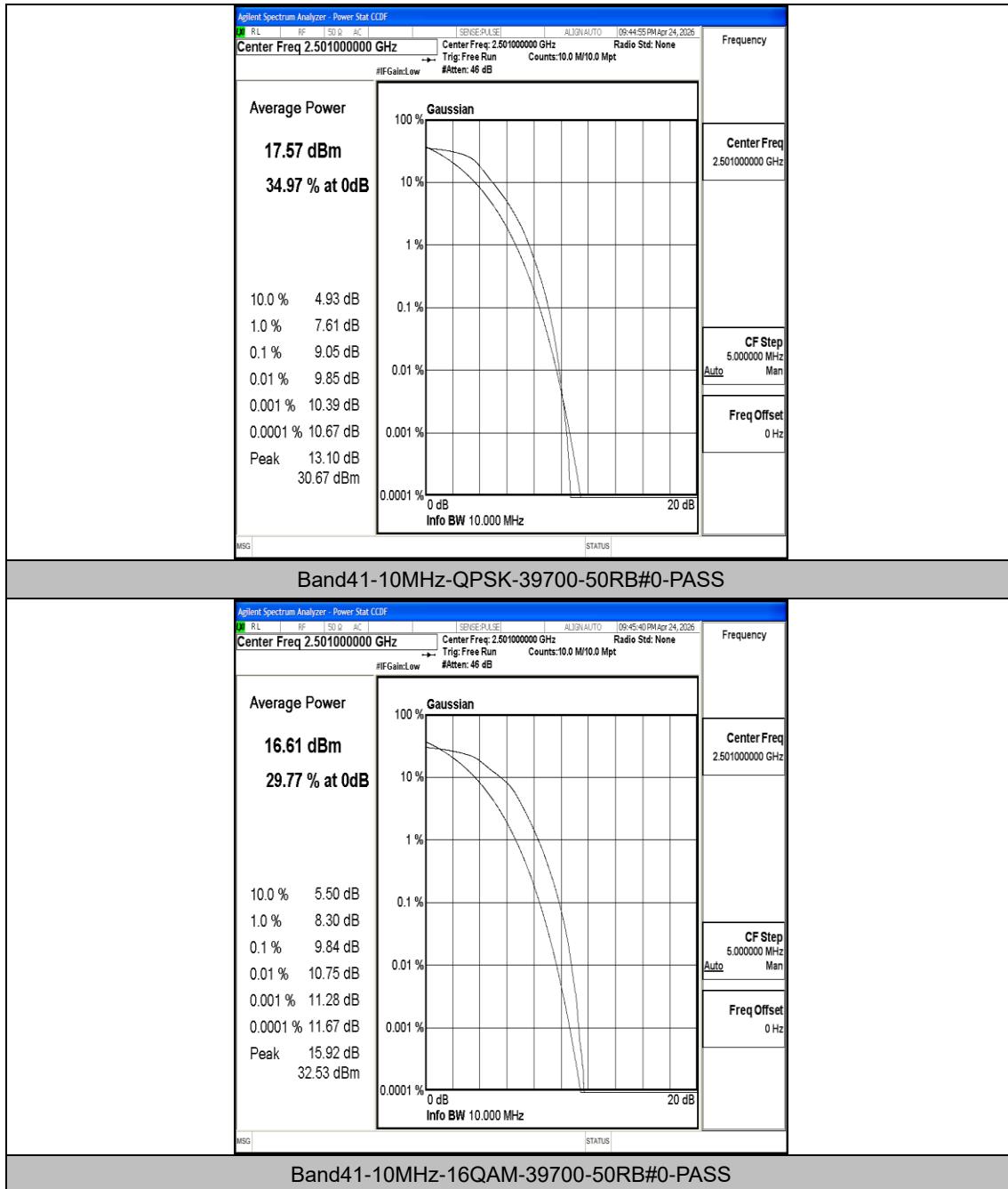


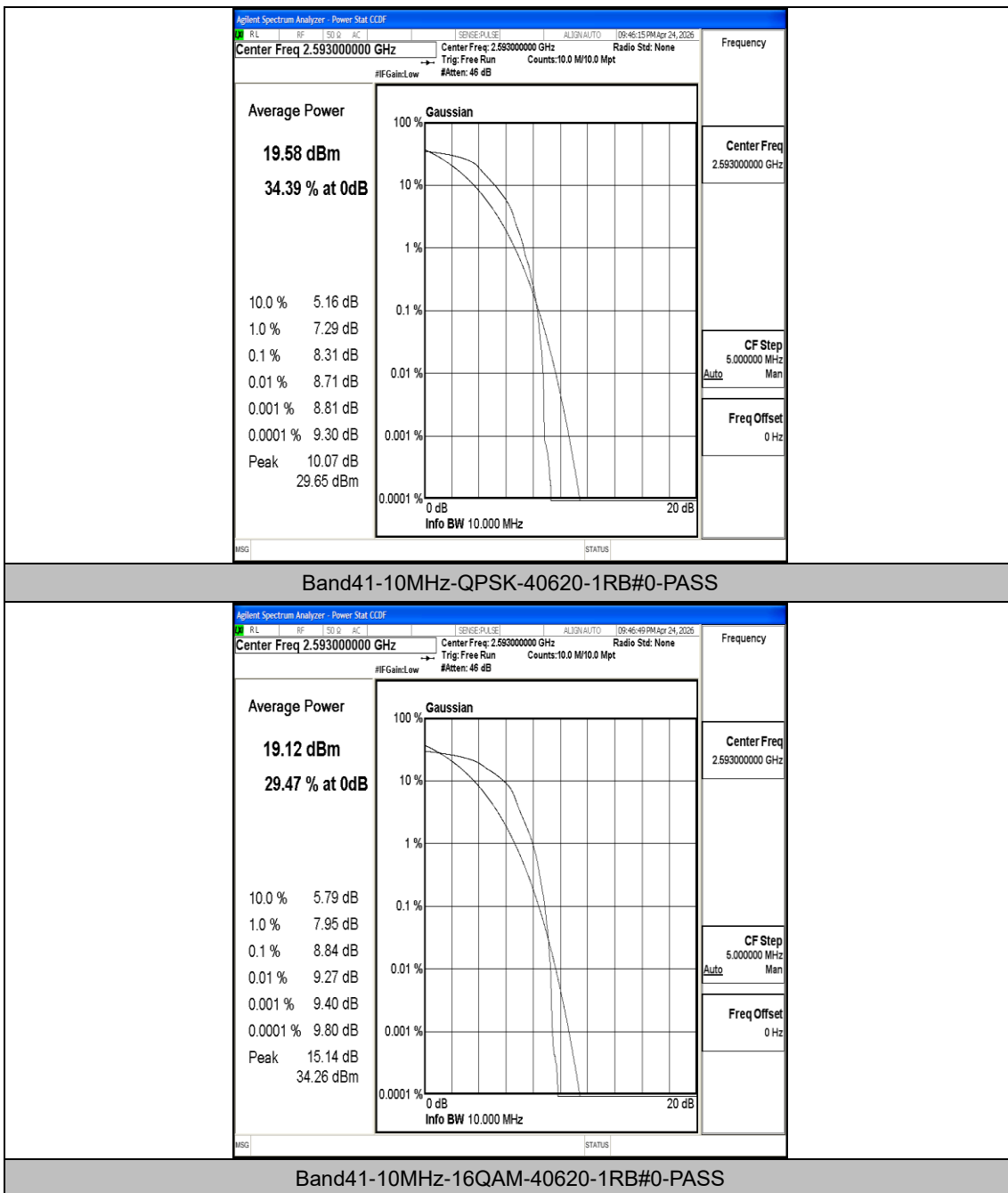


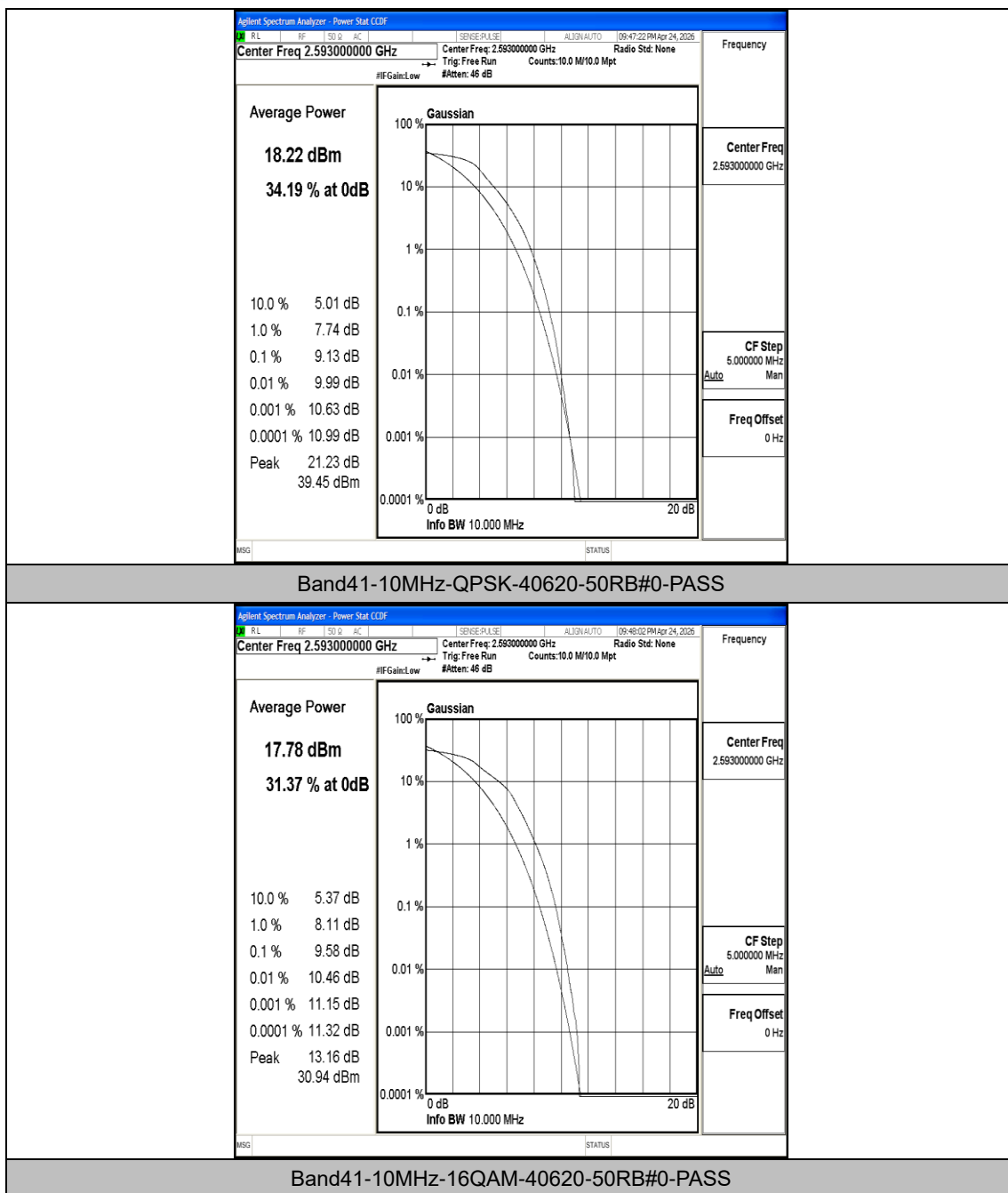


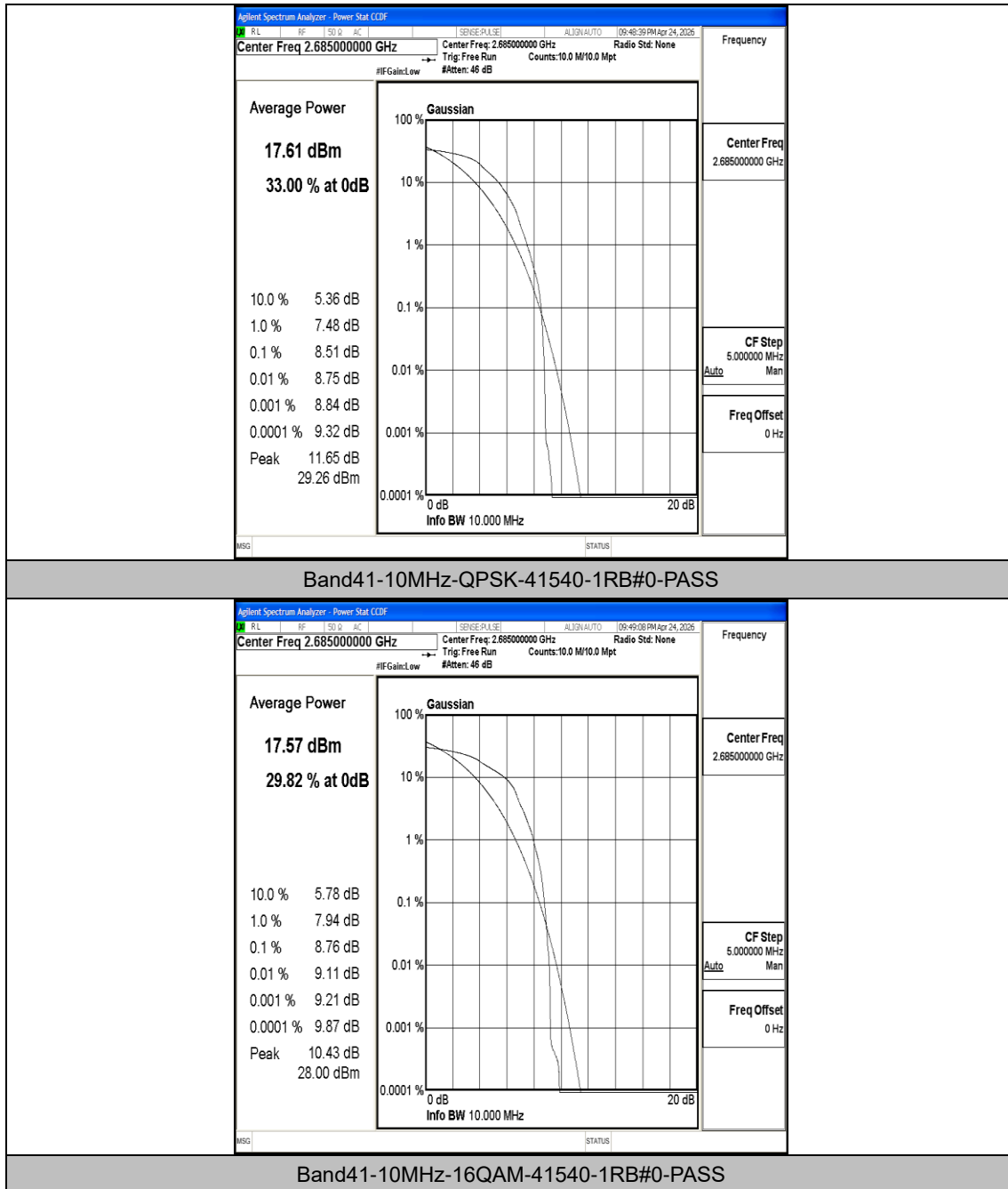


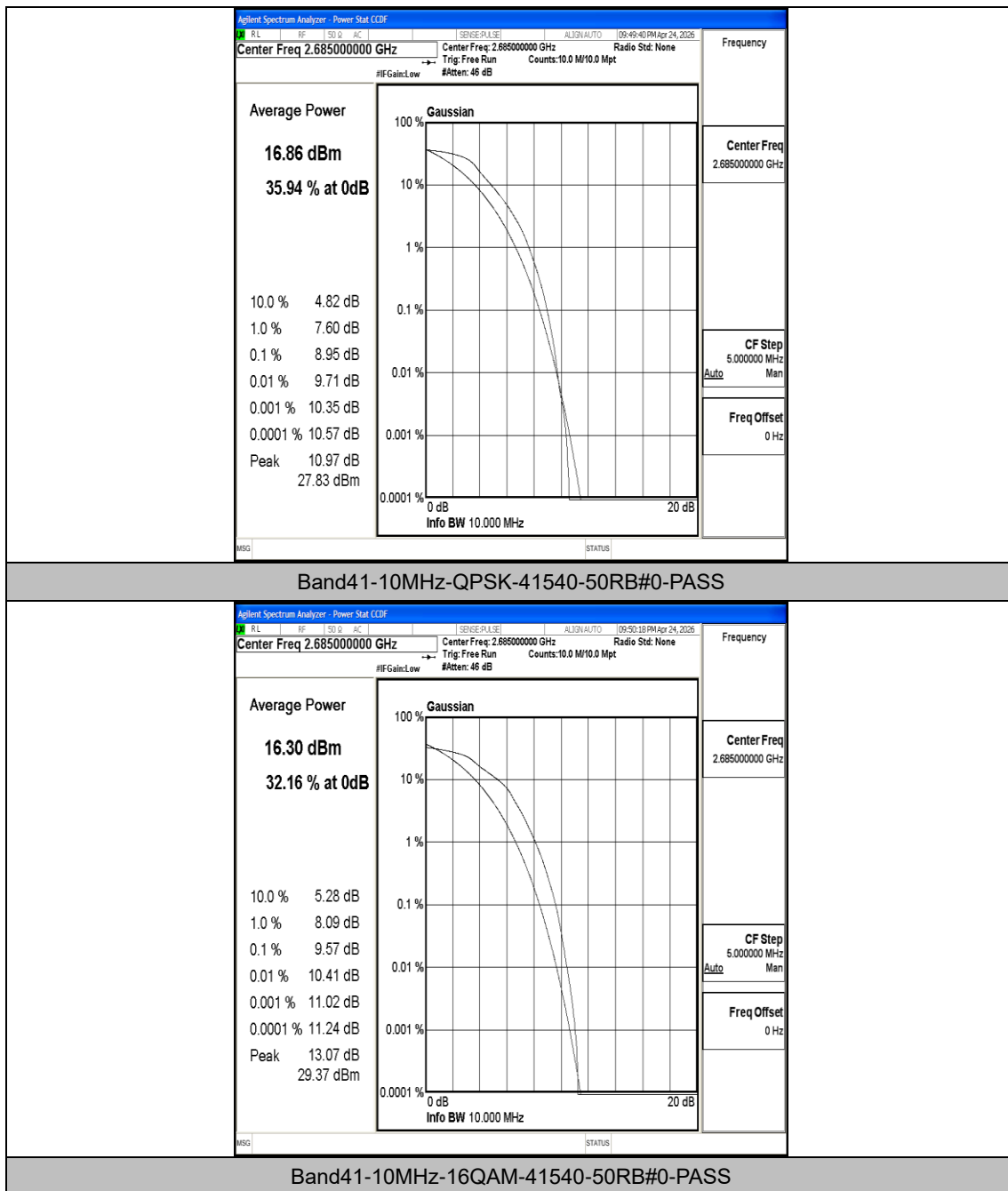


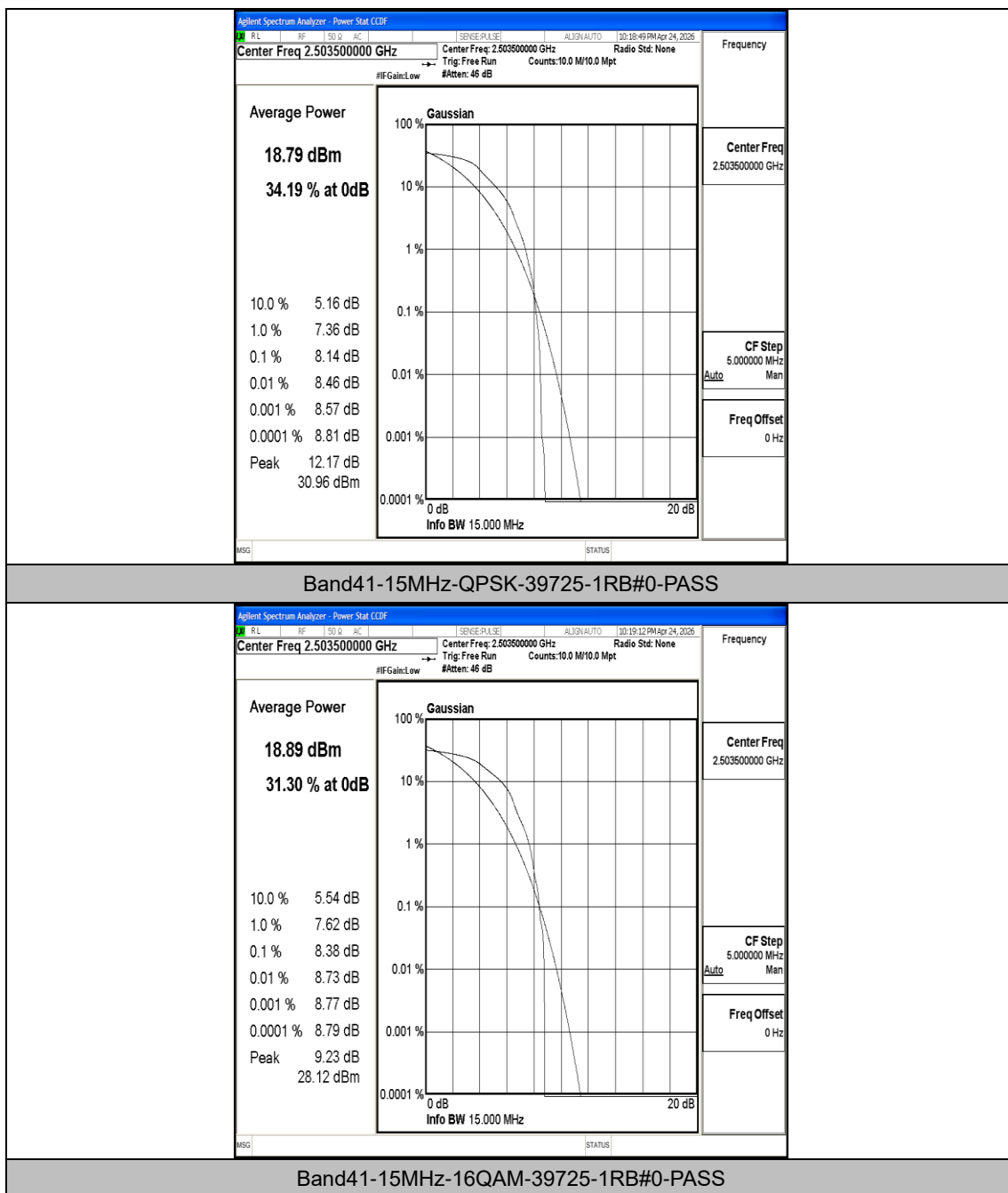


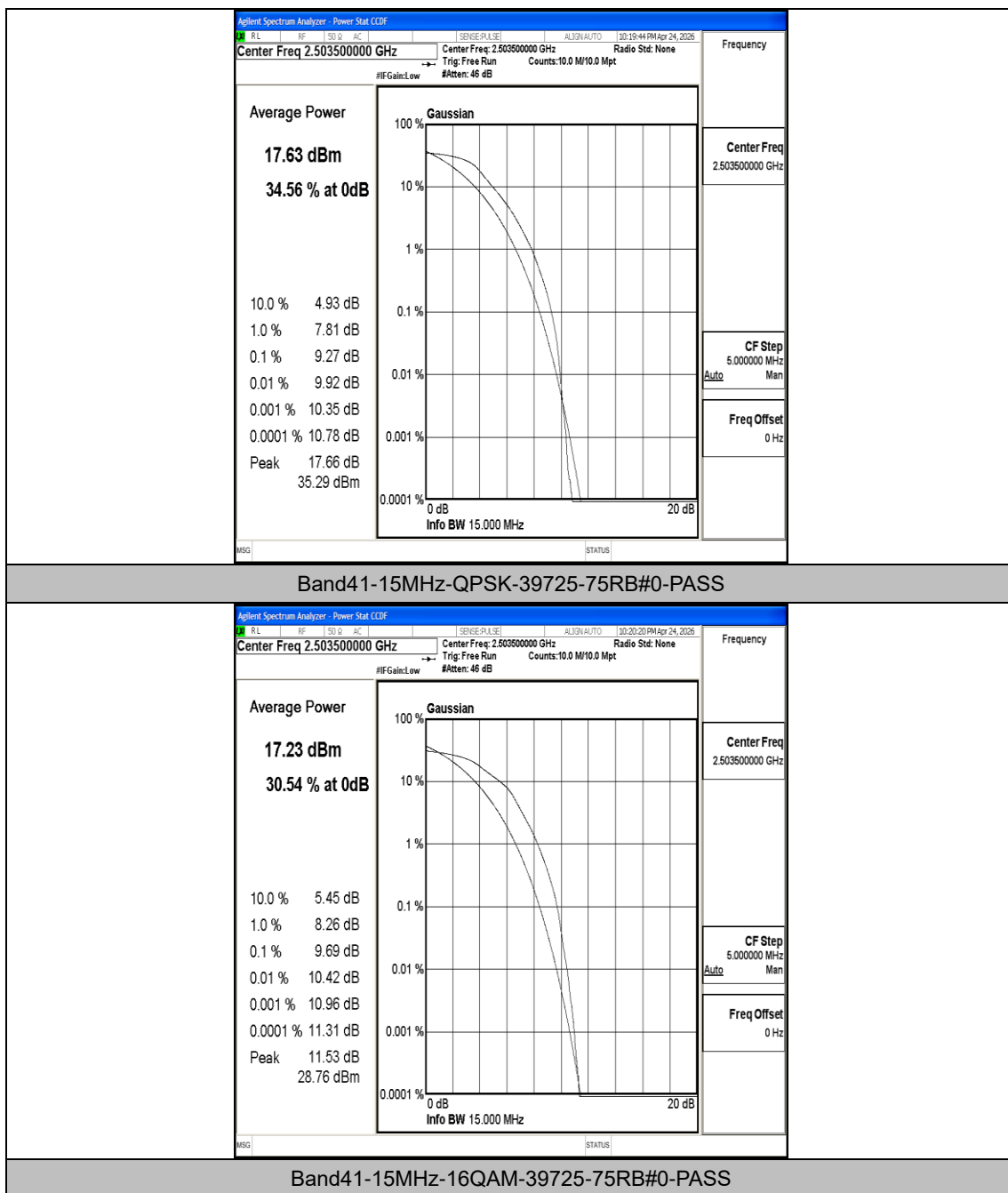


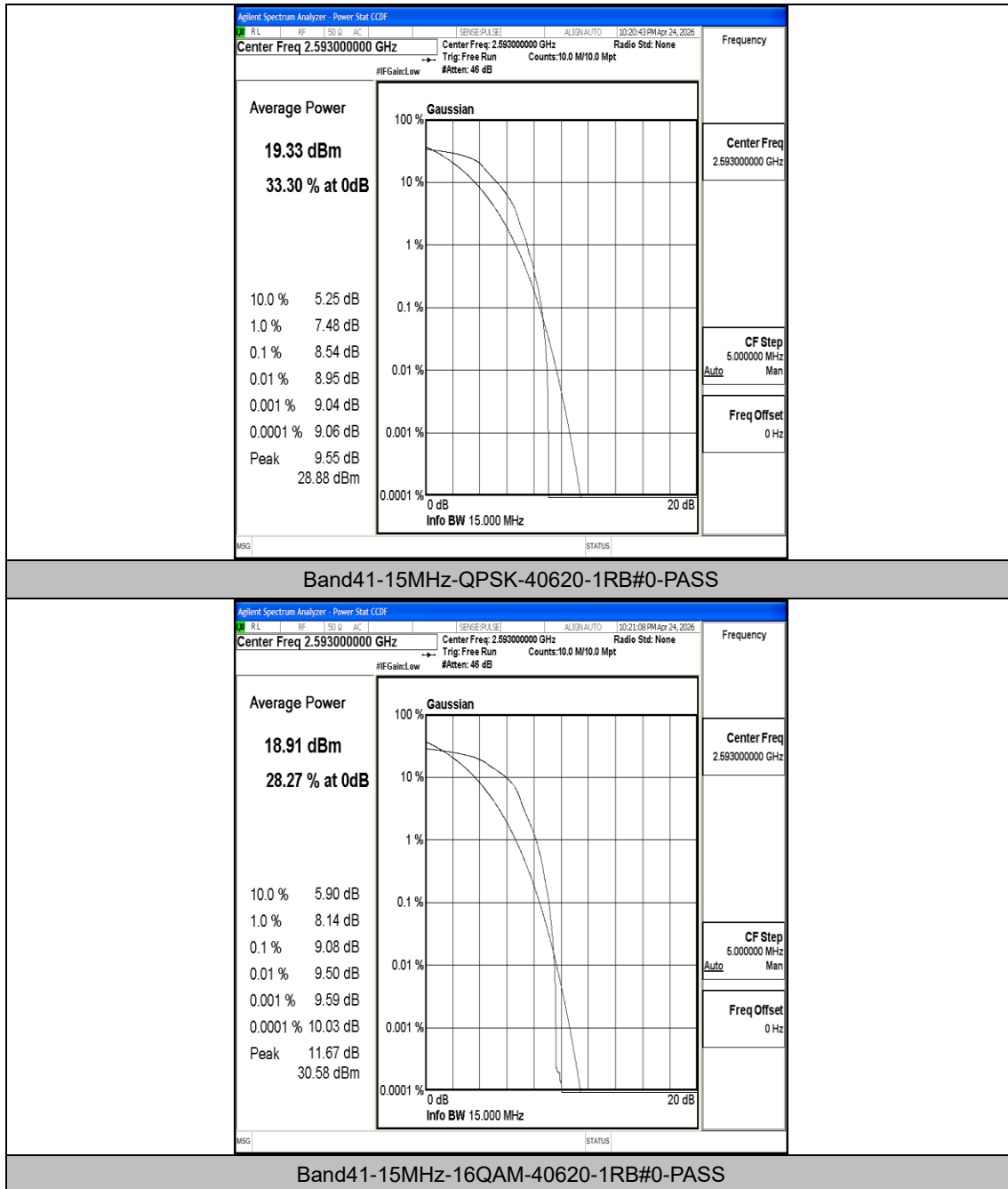


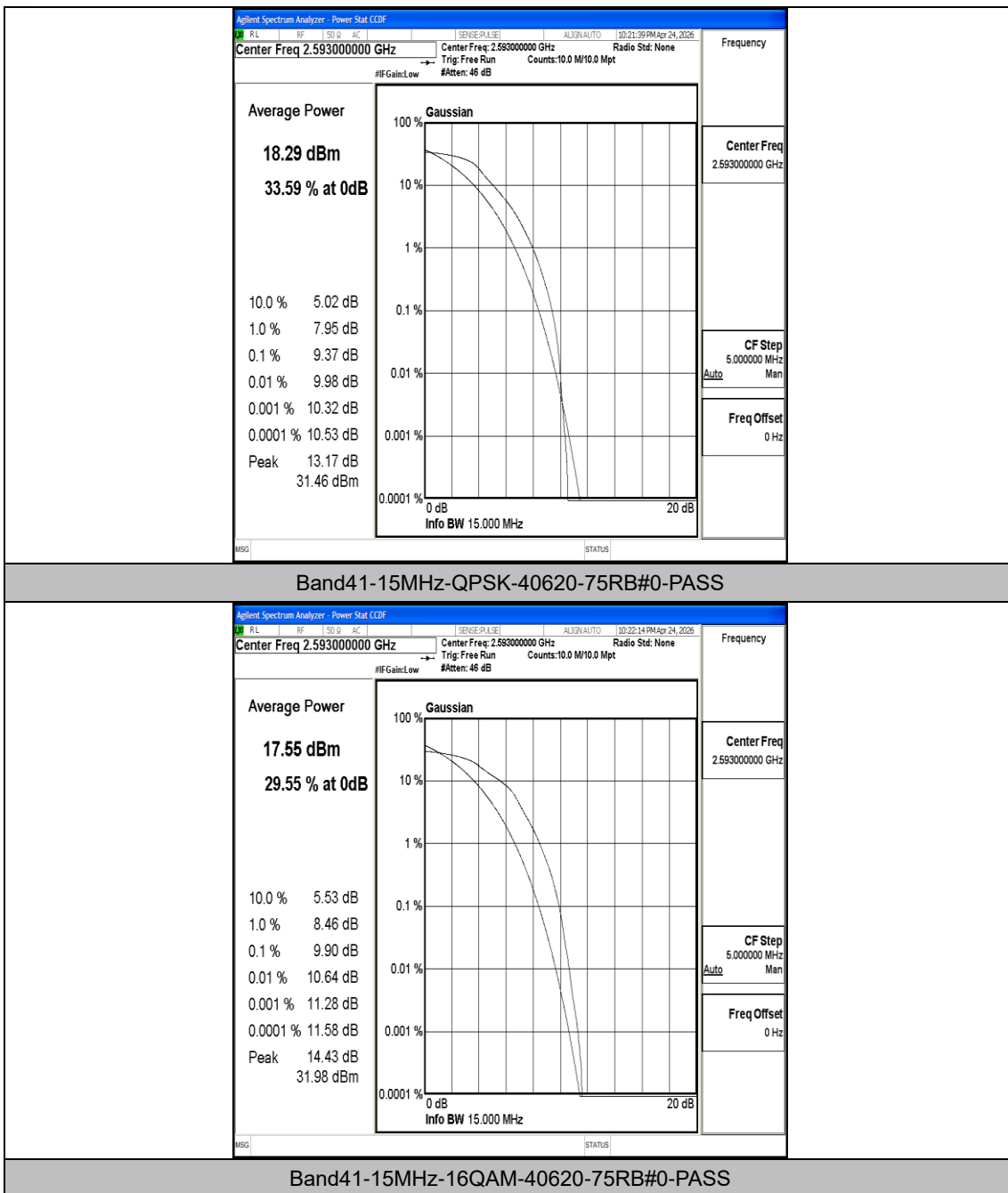


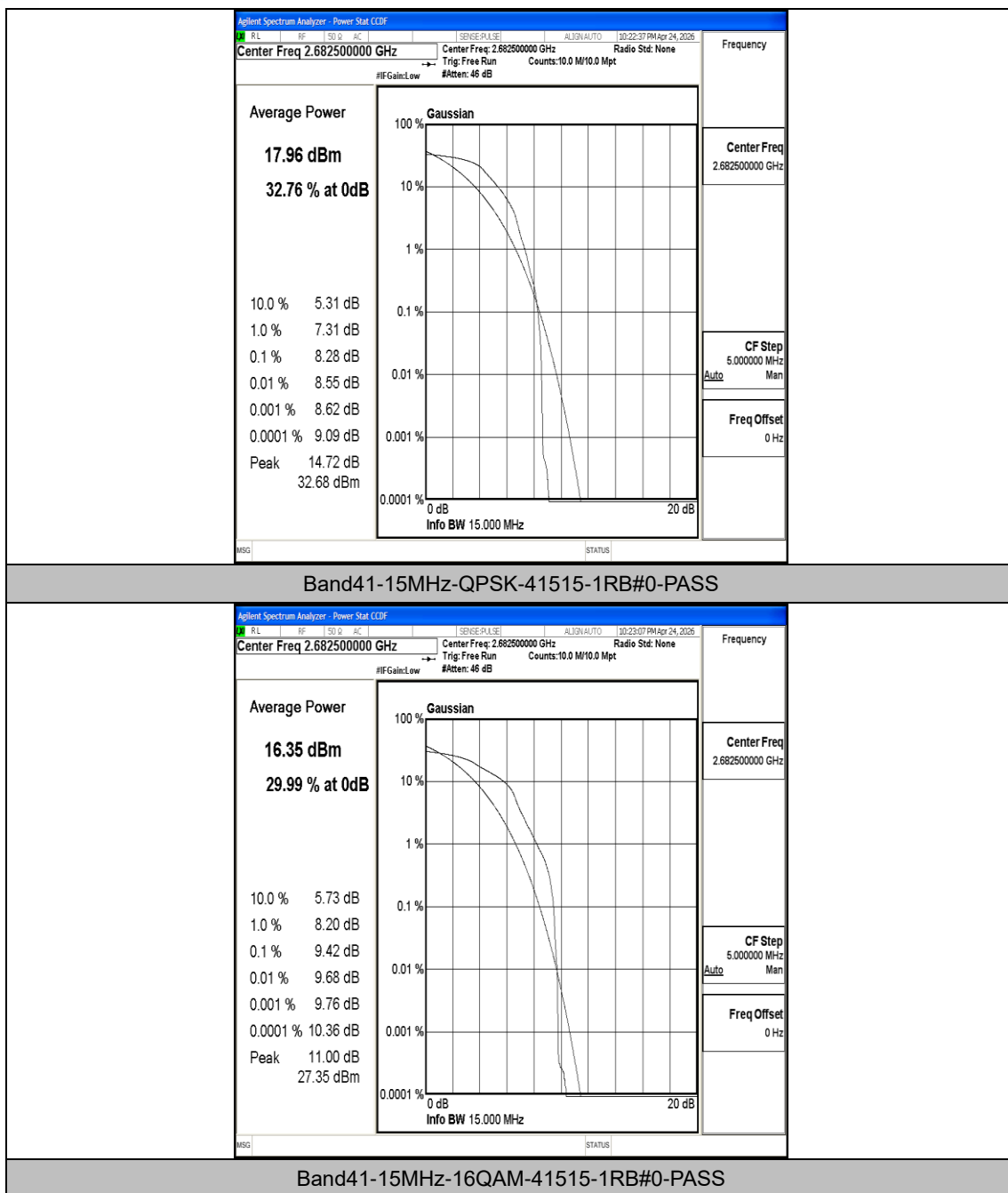


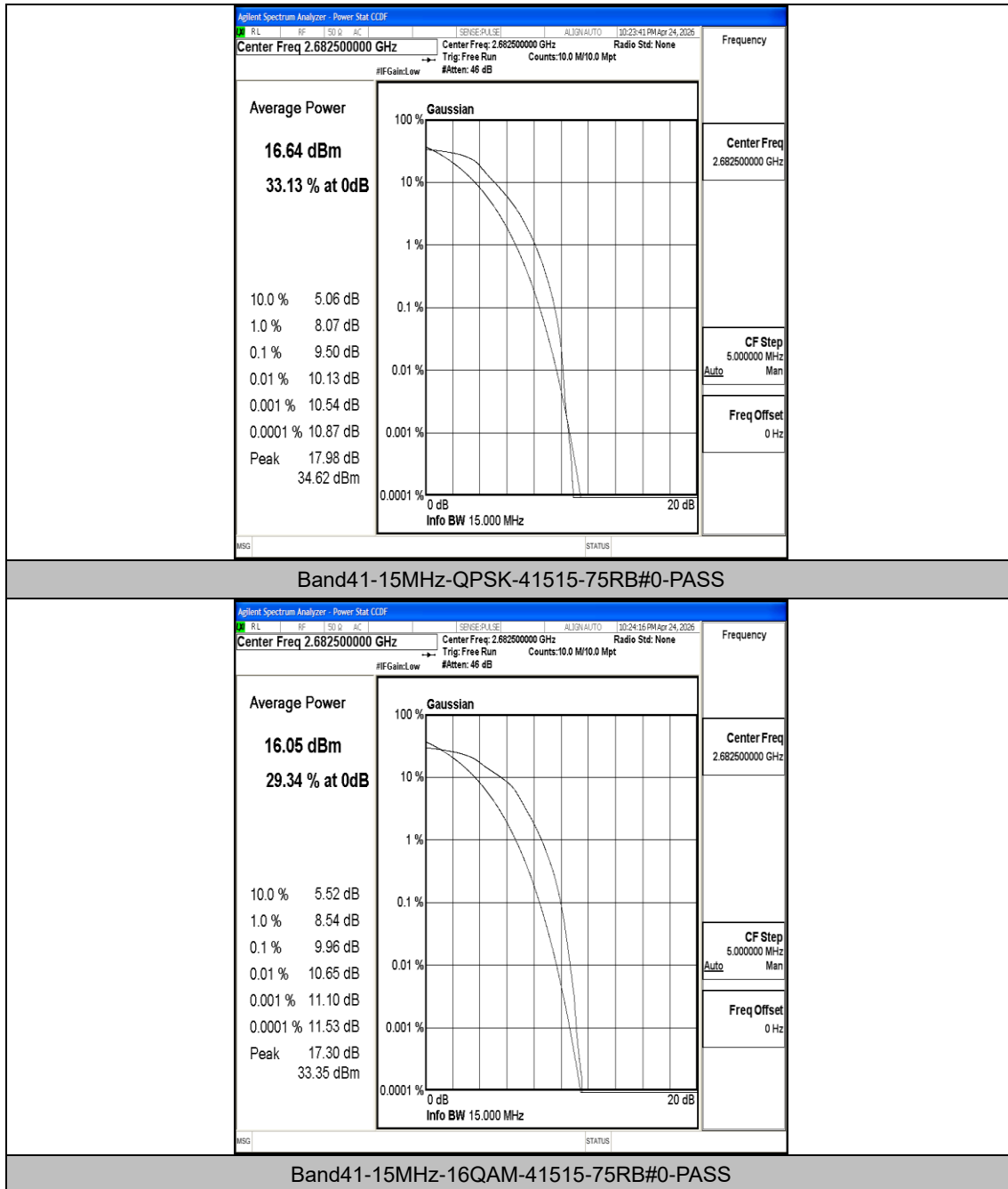


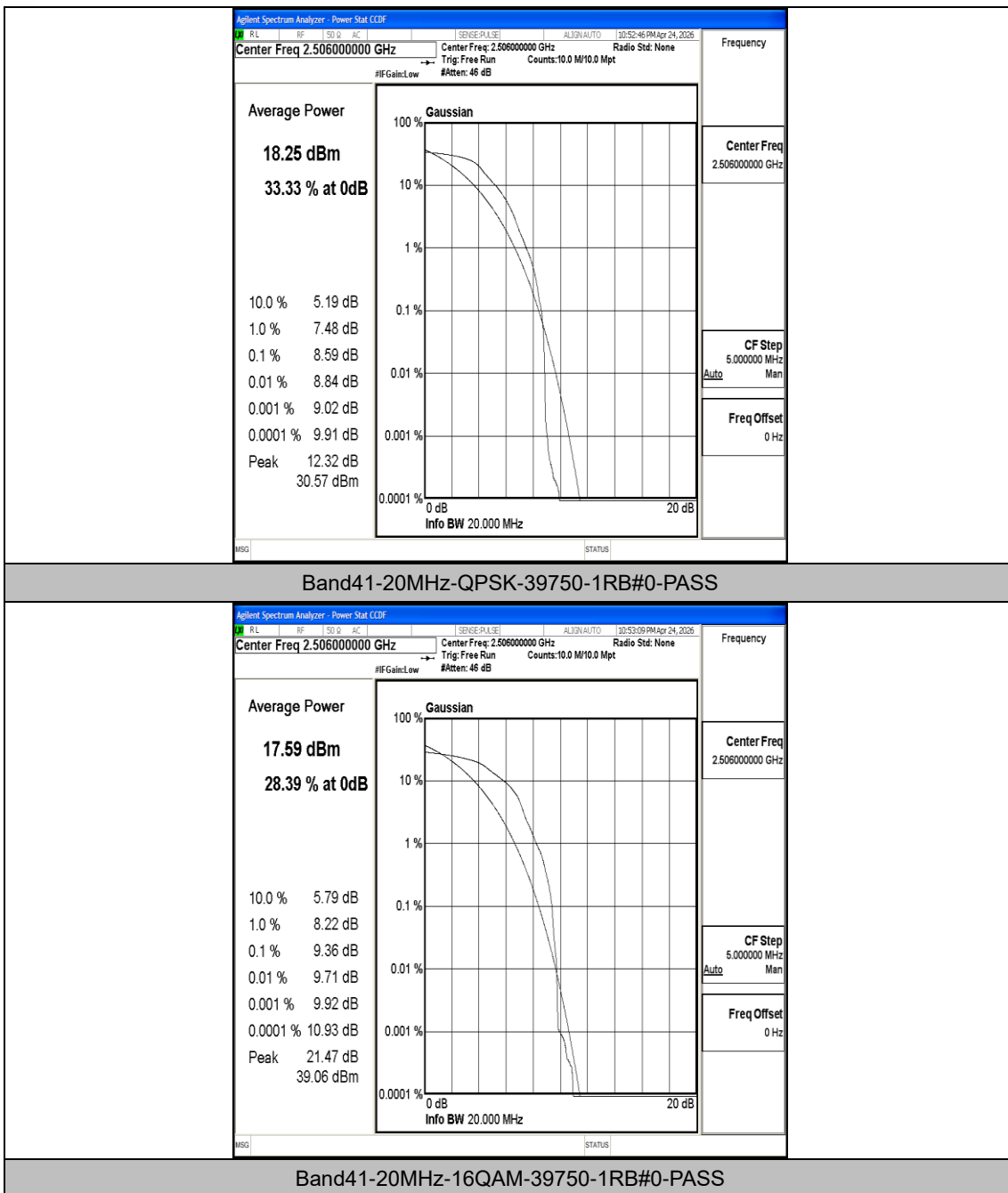


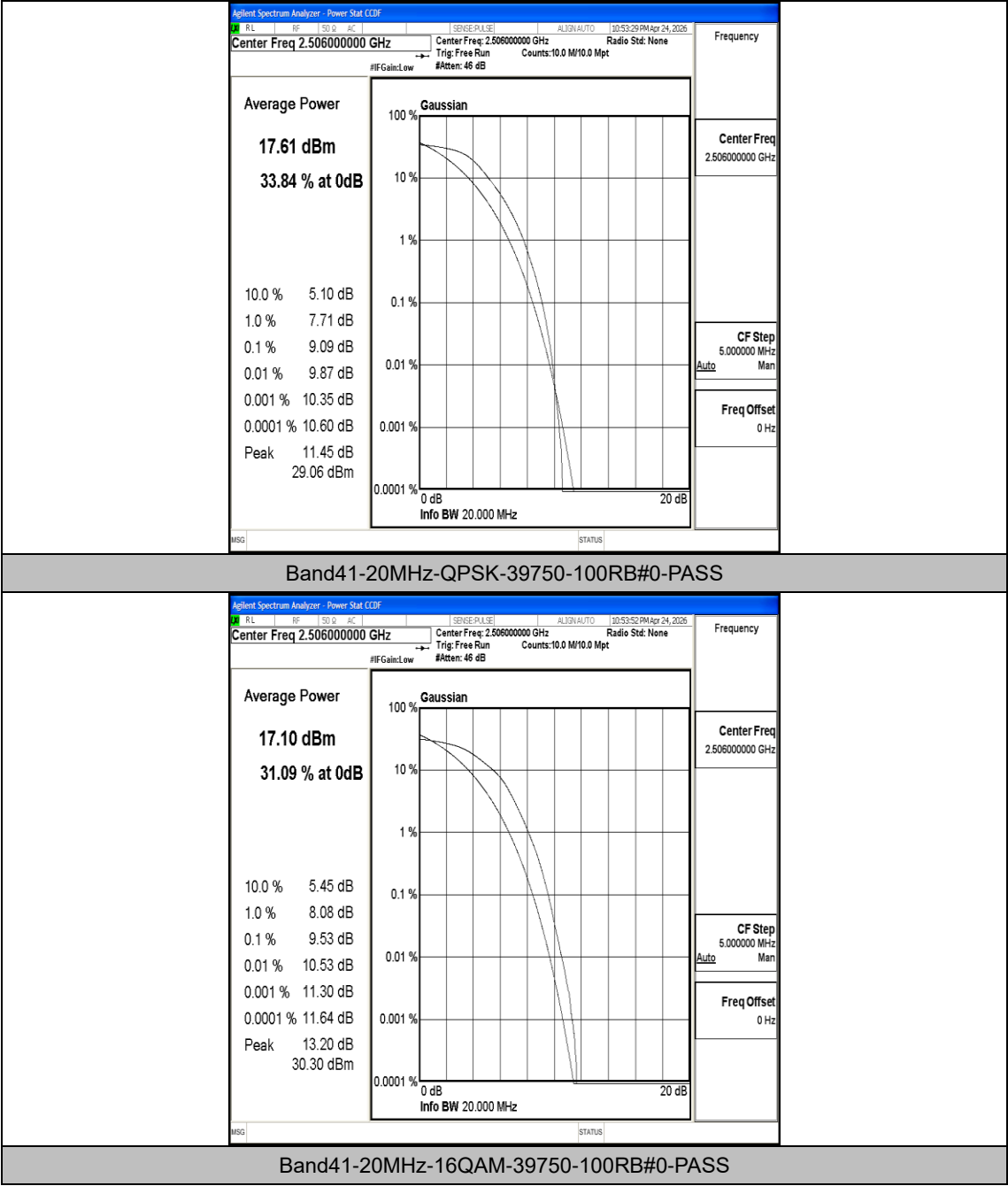


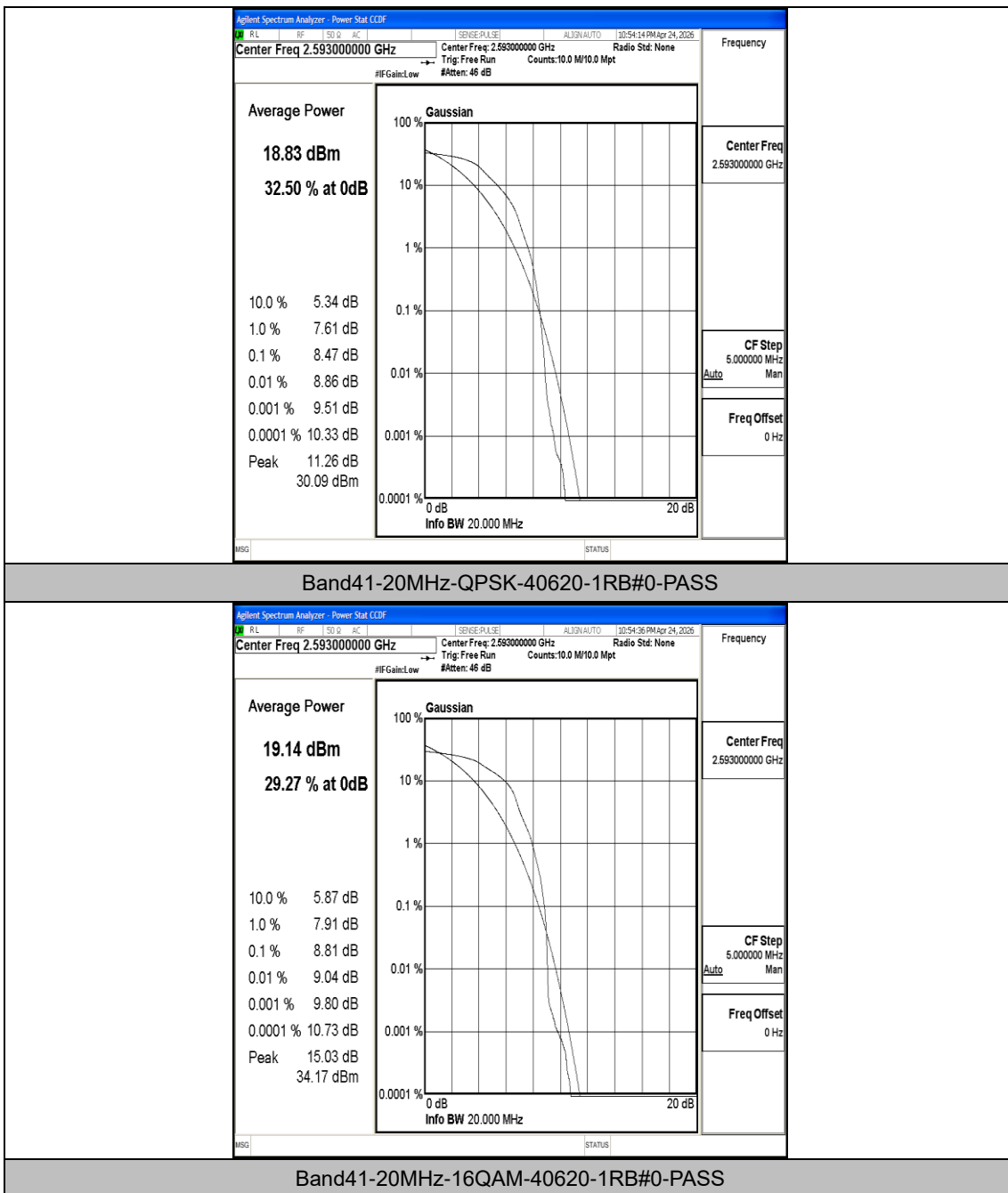


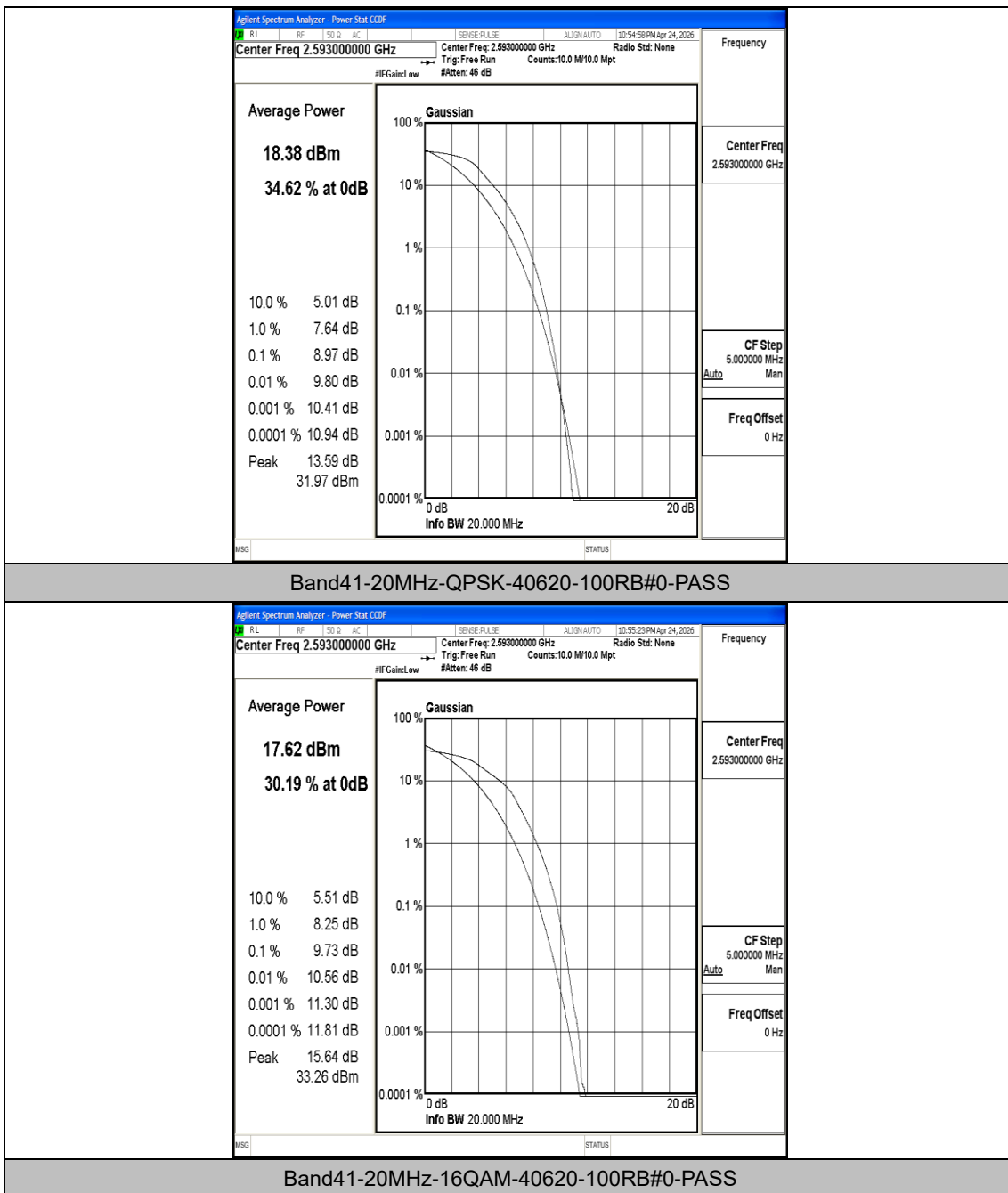


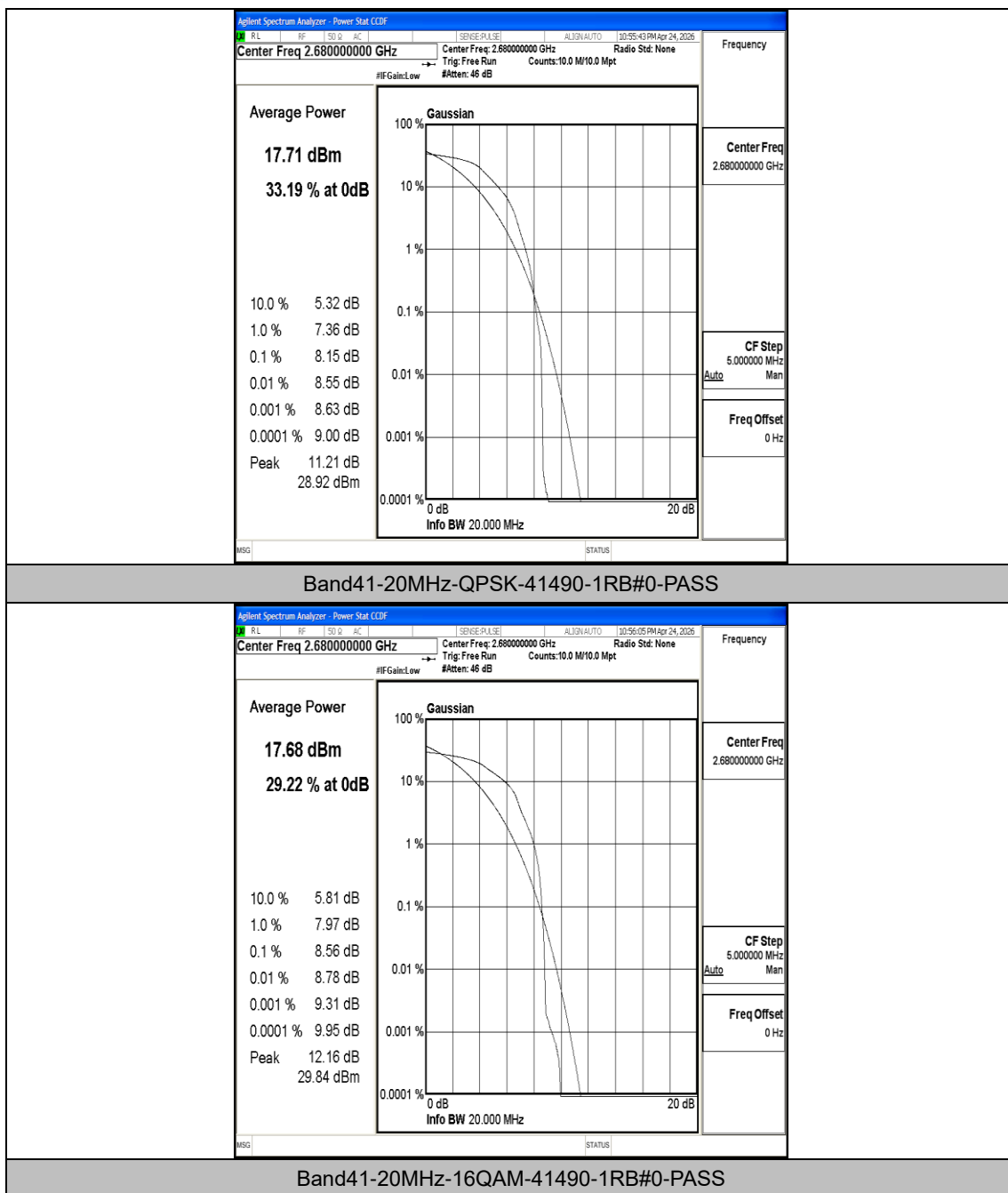


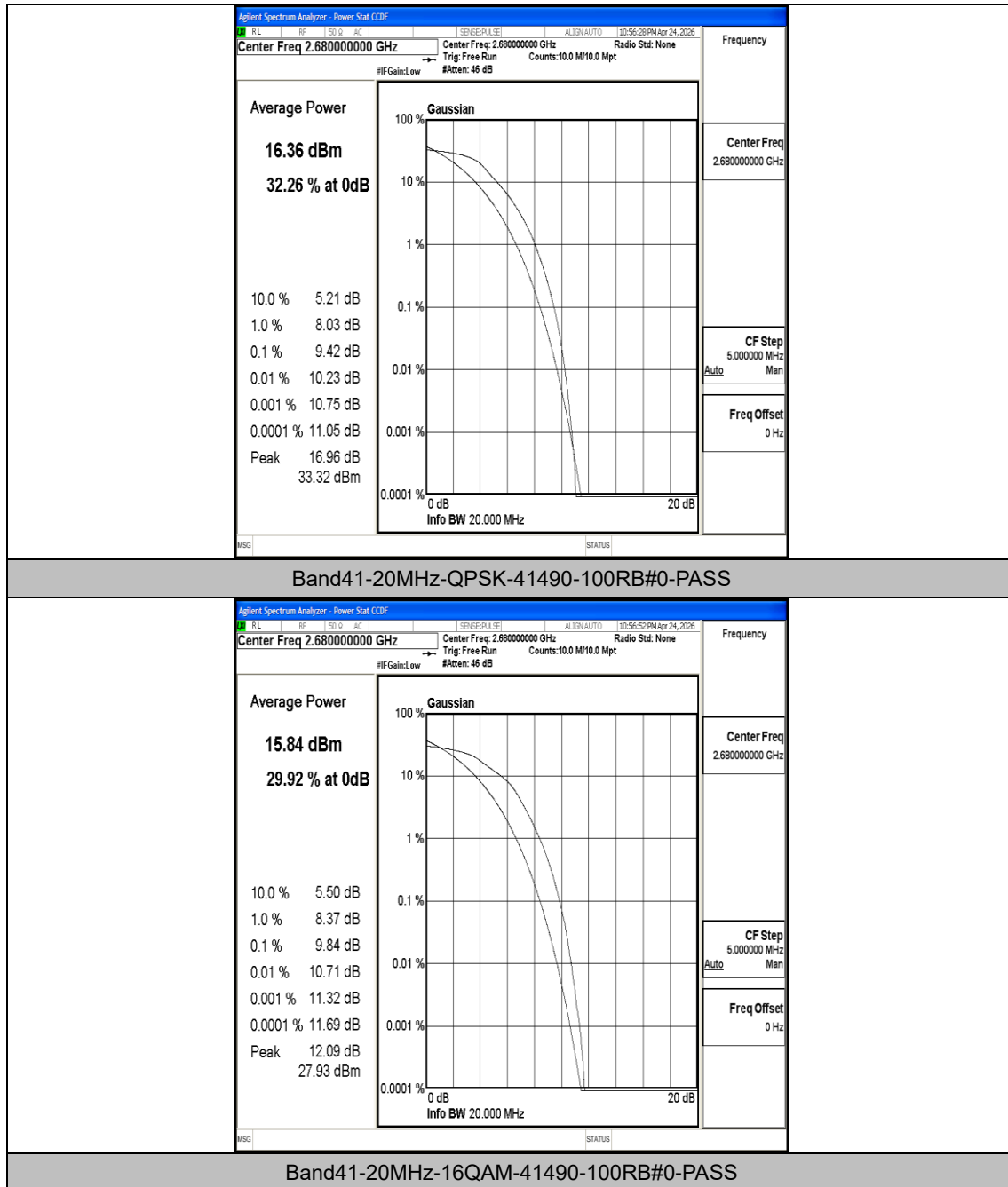












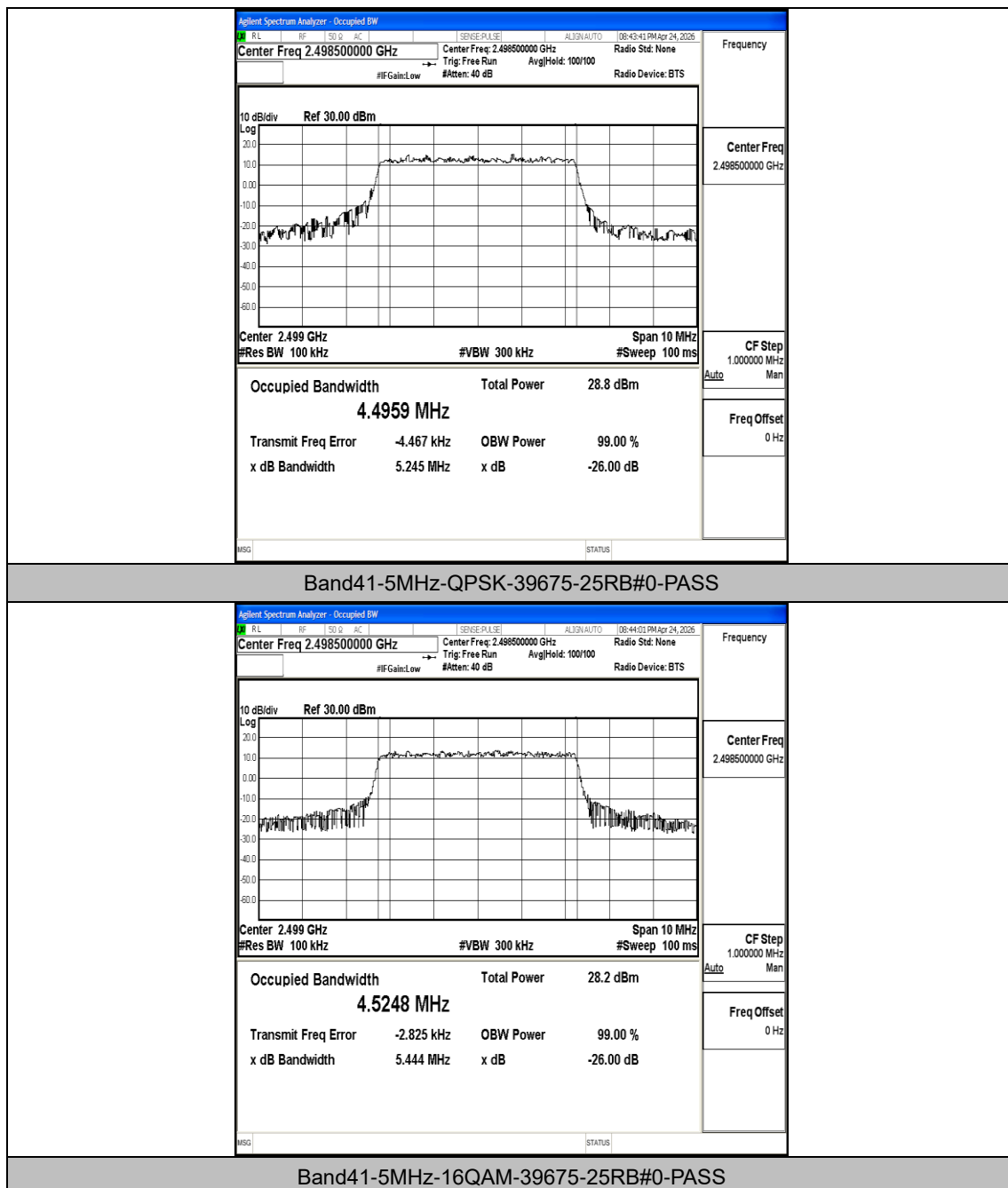


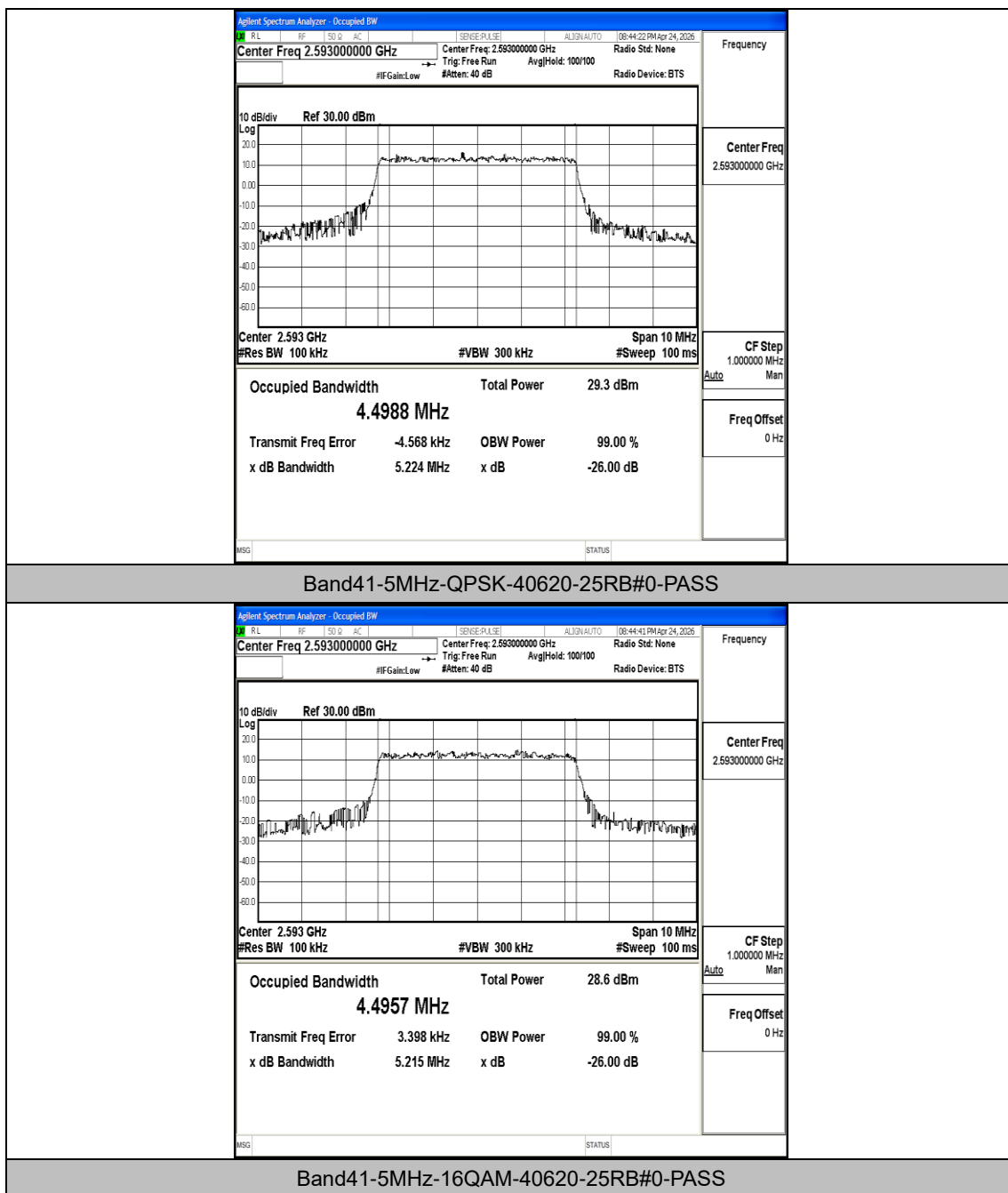
2 26dB Bandwidth and Occupied Bandwidth

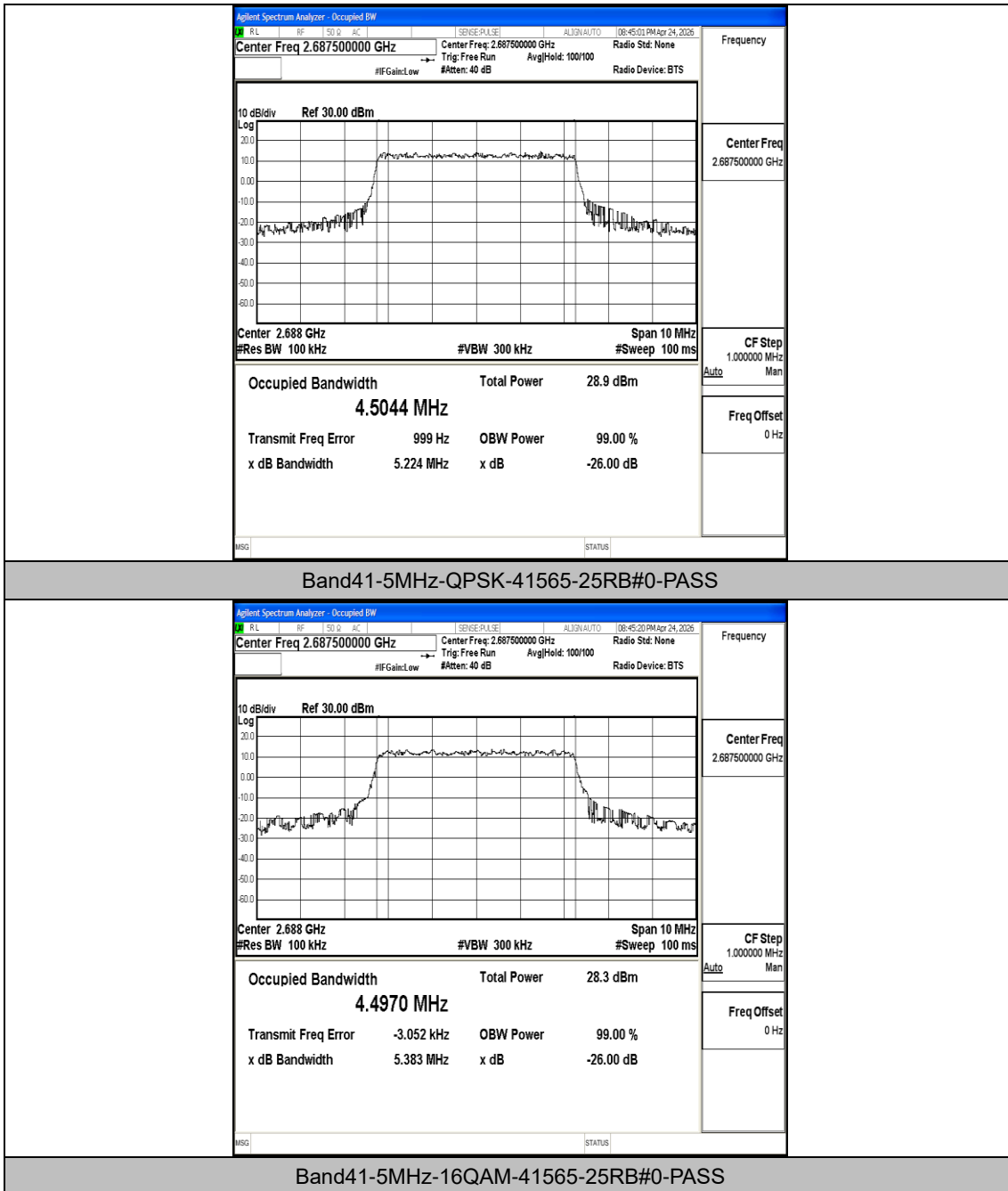
Test Result

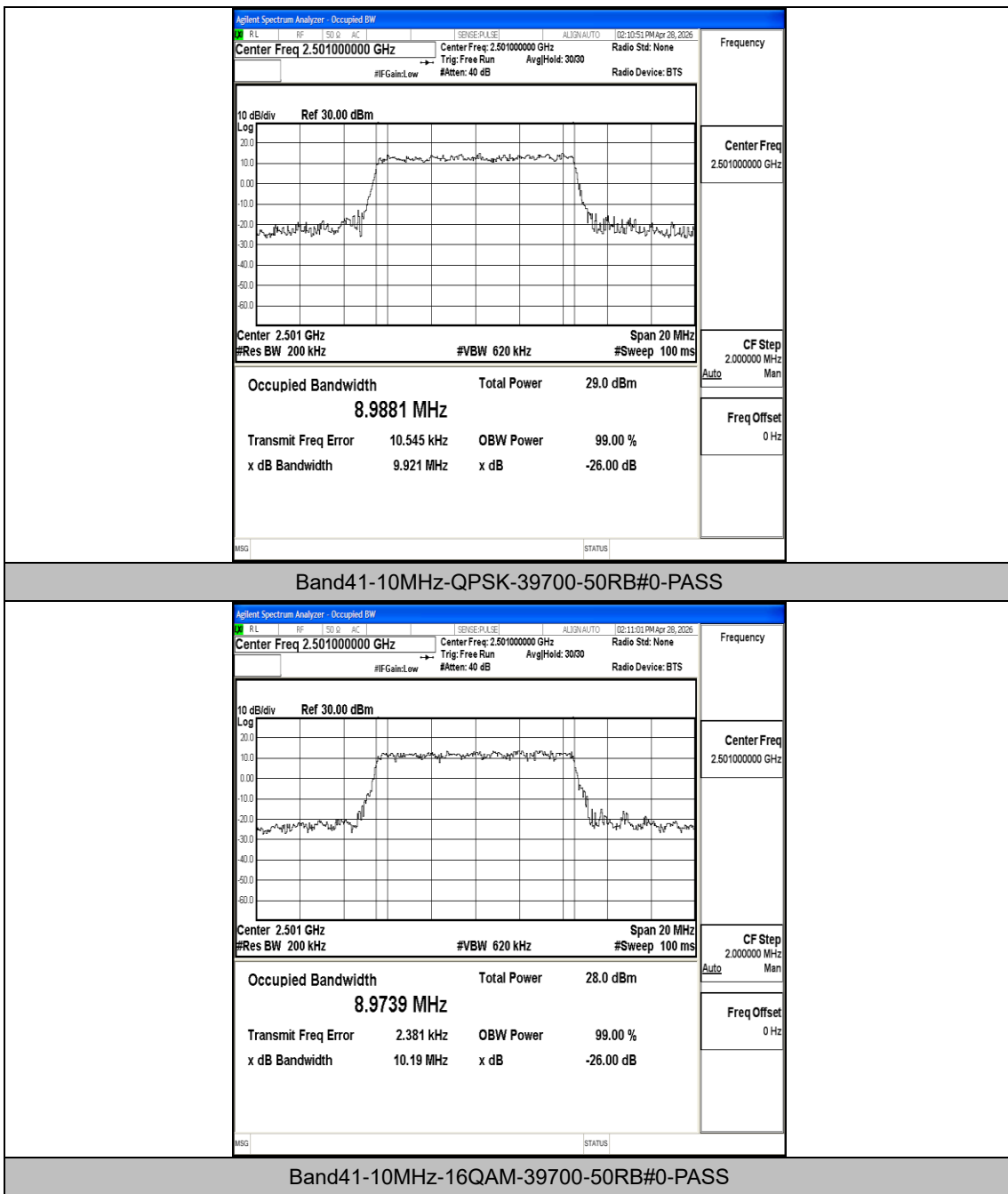
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4959	5.245	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5248	5.444	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4988	5.224	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4957	5.215	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5044	5.224	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4970	5.383	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9881	9.921	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9739	10.19	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0071	10.18	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.537	16.86	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.520	15.30	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.460	16.02	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.518	16.12	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.480	15.11	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.505	15.39	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.0155	11.13	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9752	10.47	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9799	9.872	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.022	20.96	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.948	20.28	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.995	20.34	PASS
Band41	20MHz	16QAM	40620	100RB#0	18.049	20.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.980	19.99	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.920	20.12	PASS

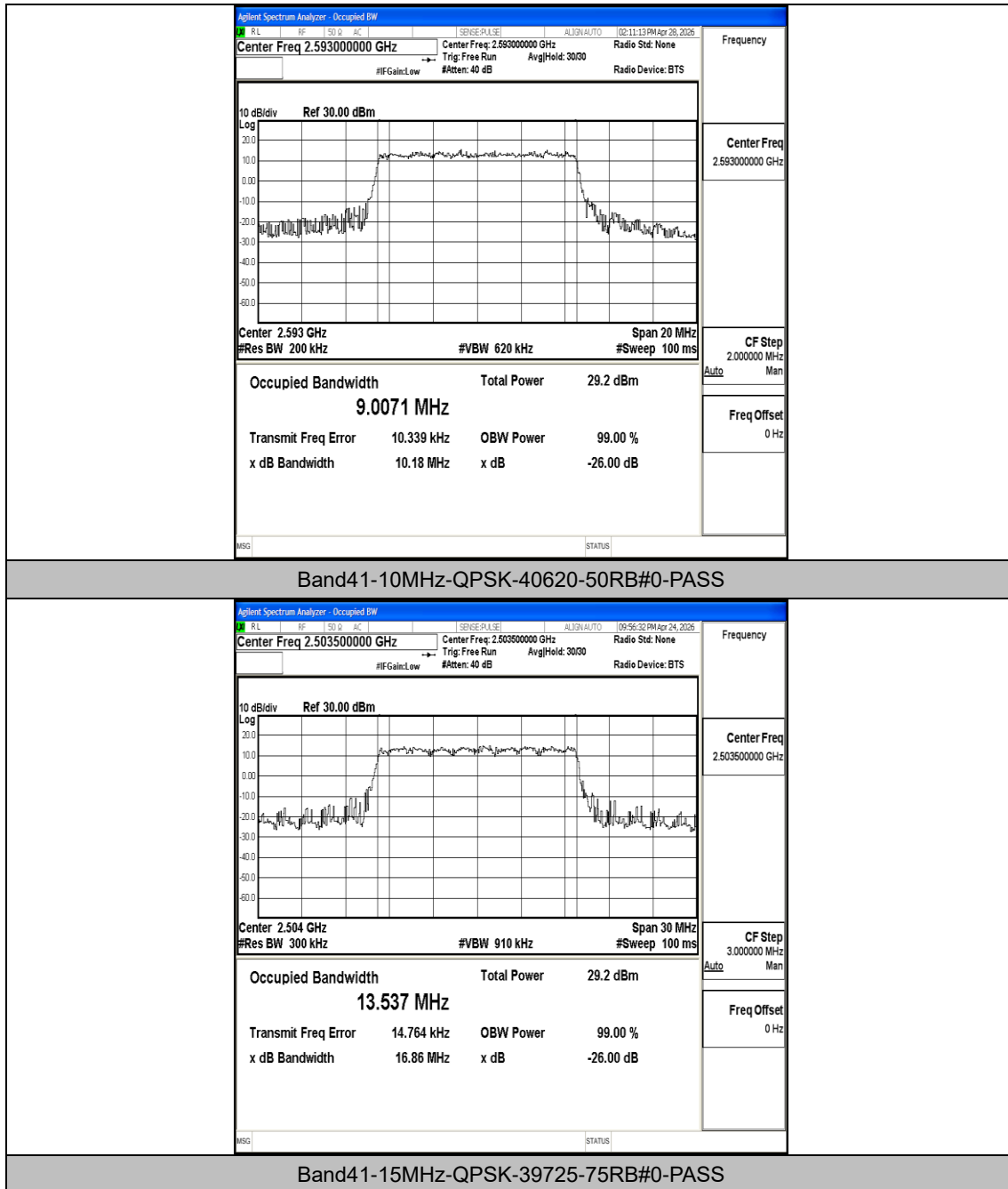
Test Graphs

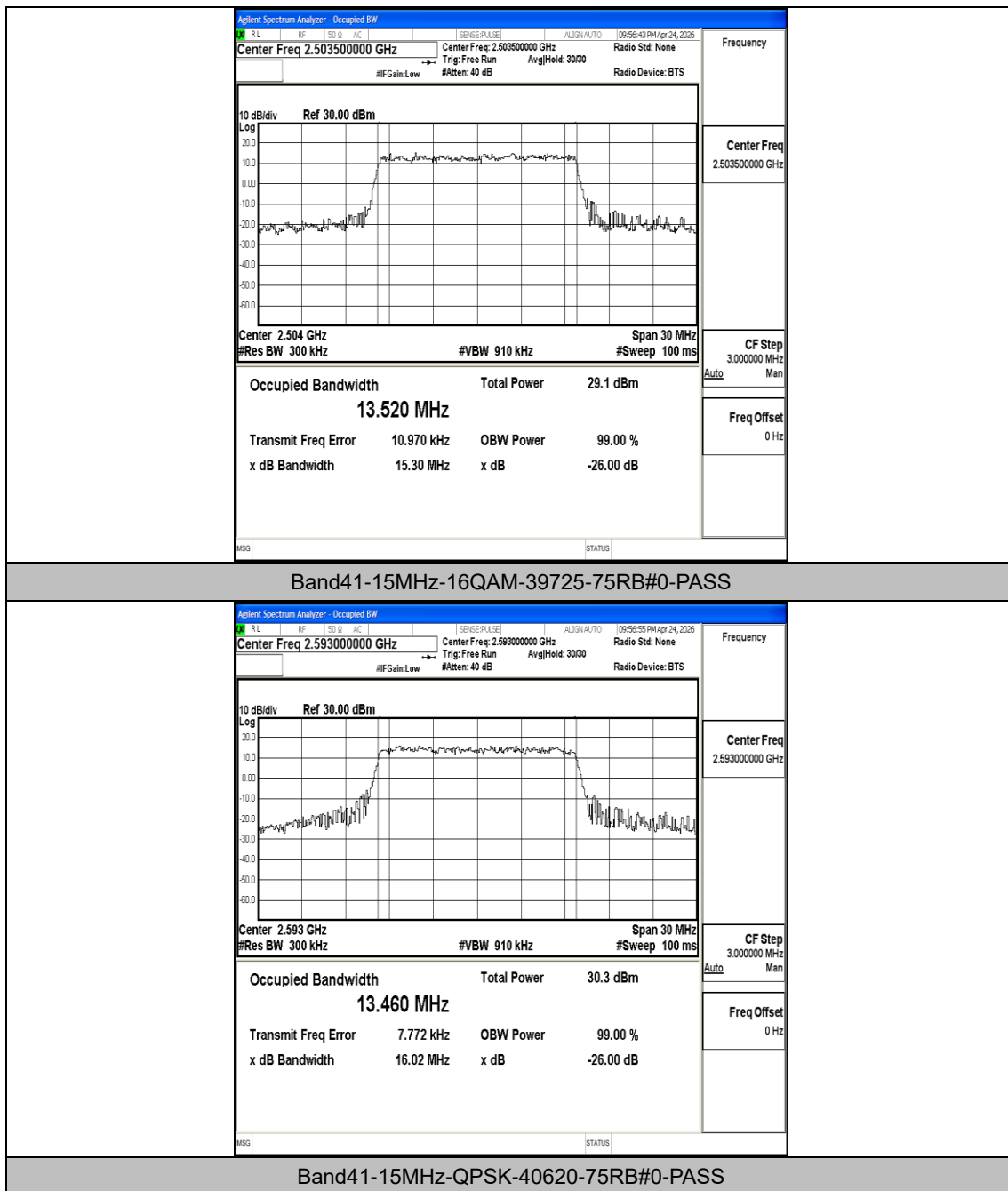


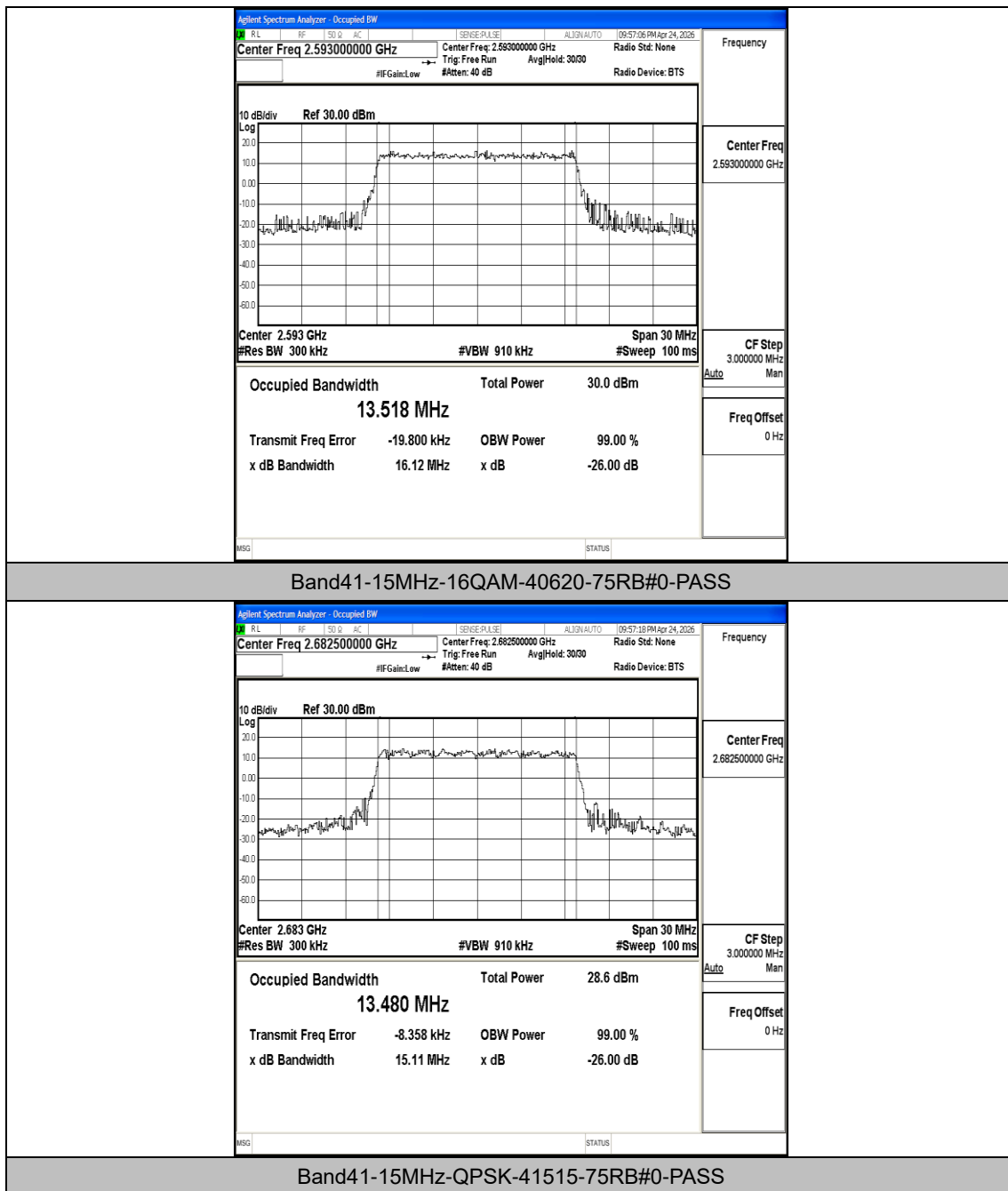


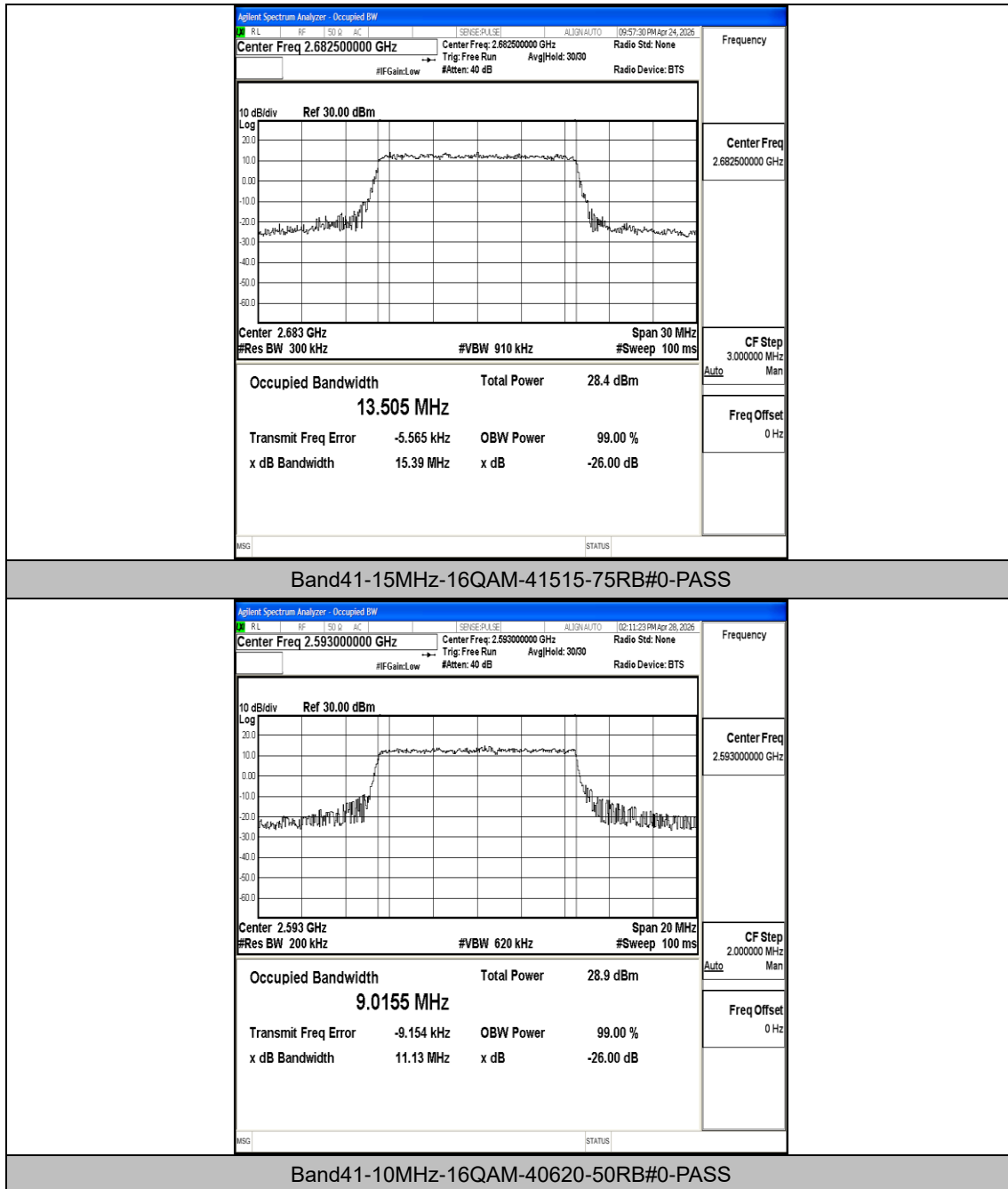


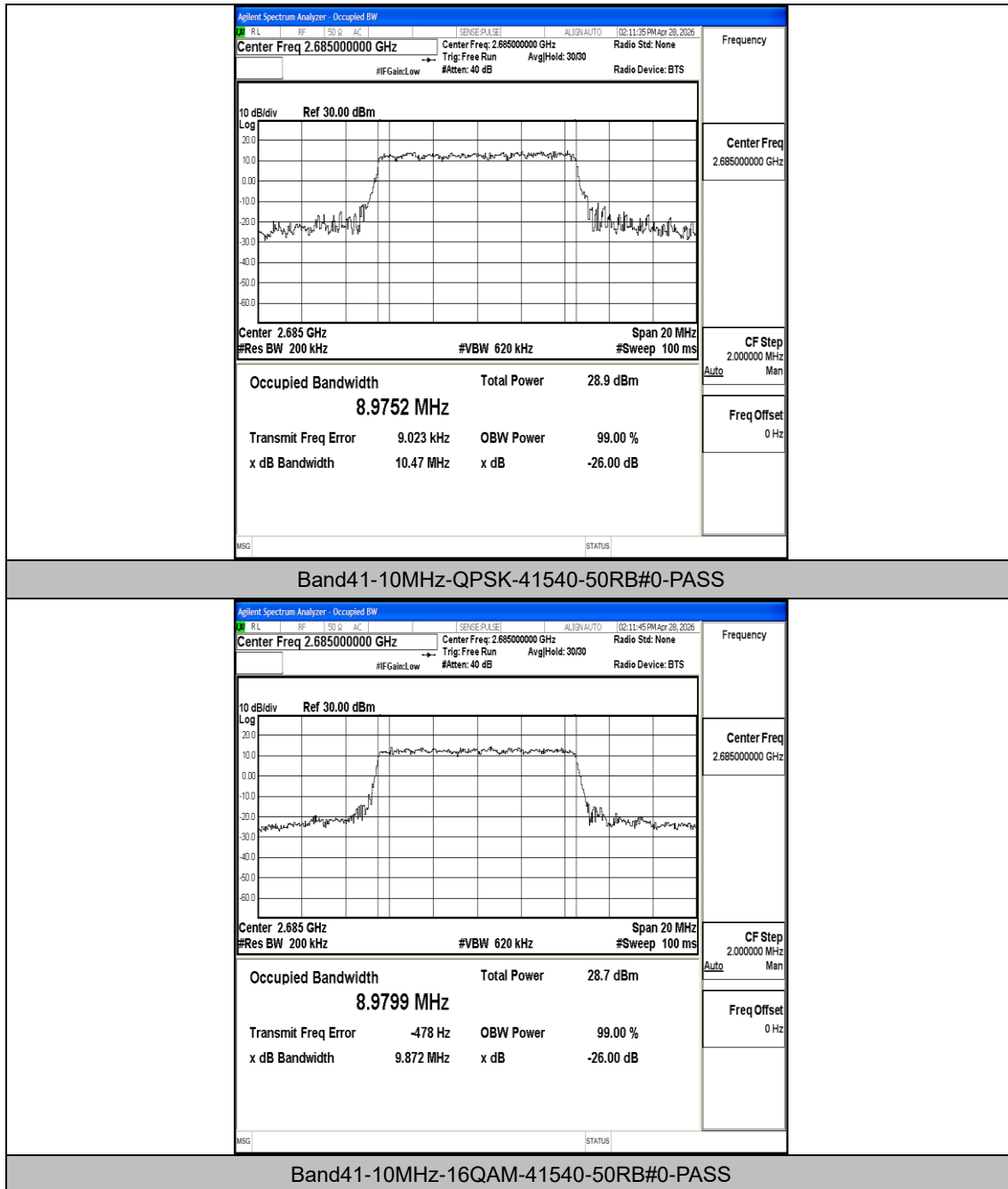


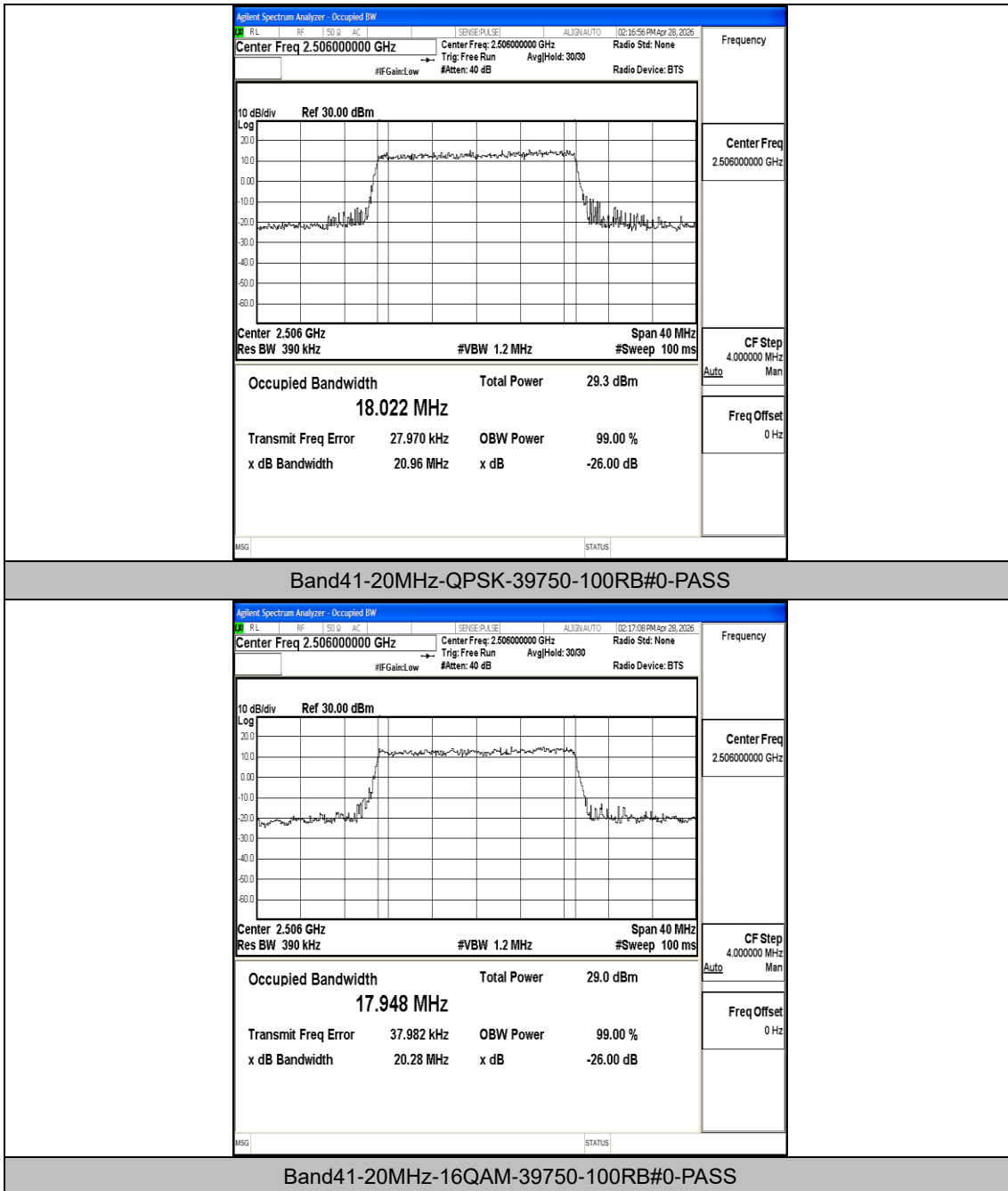


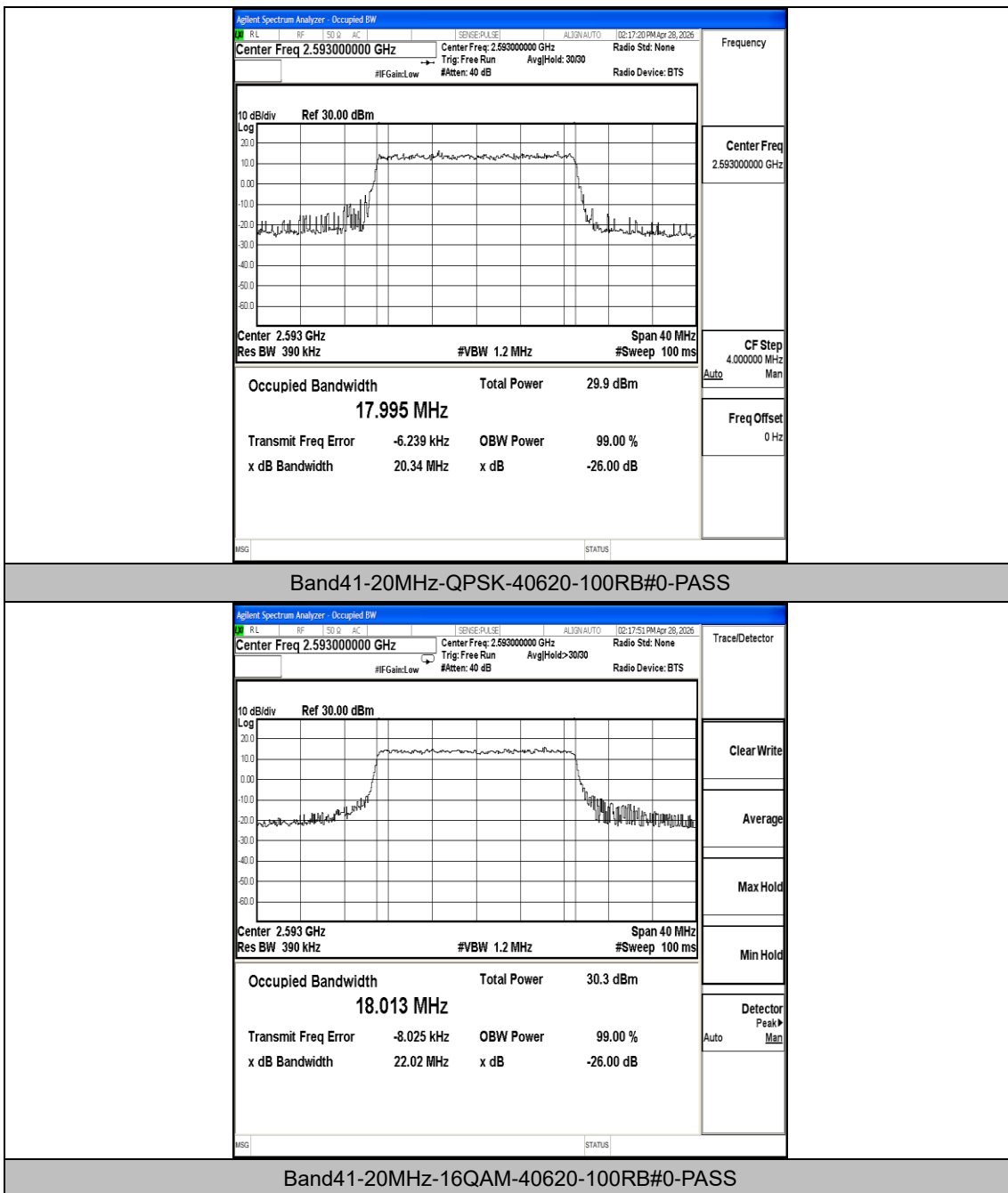


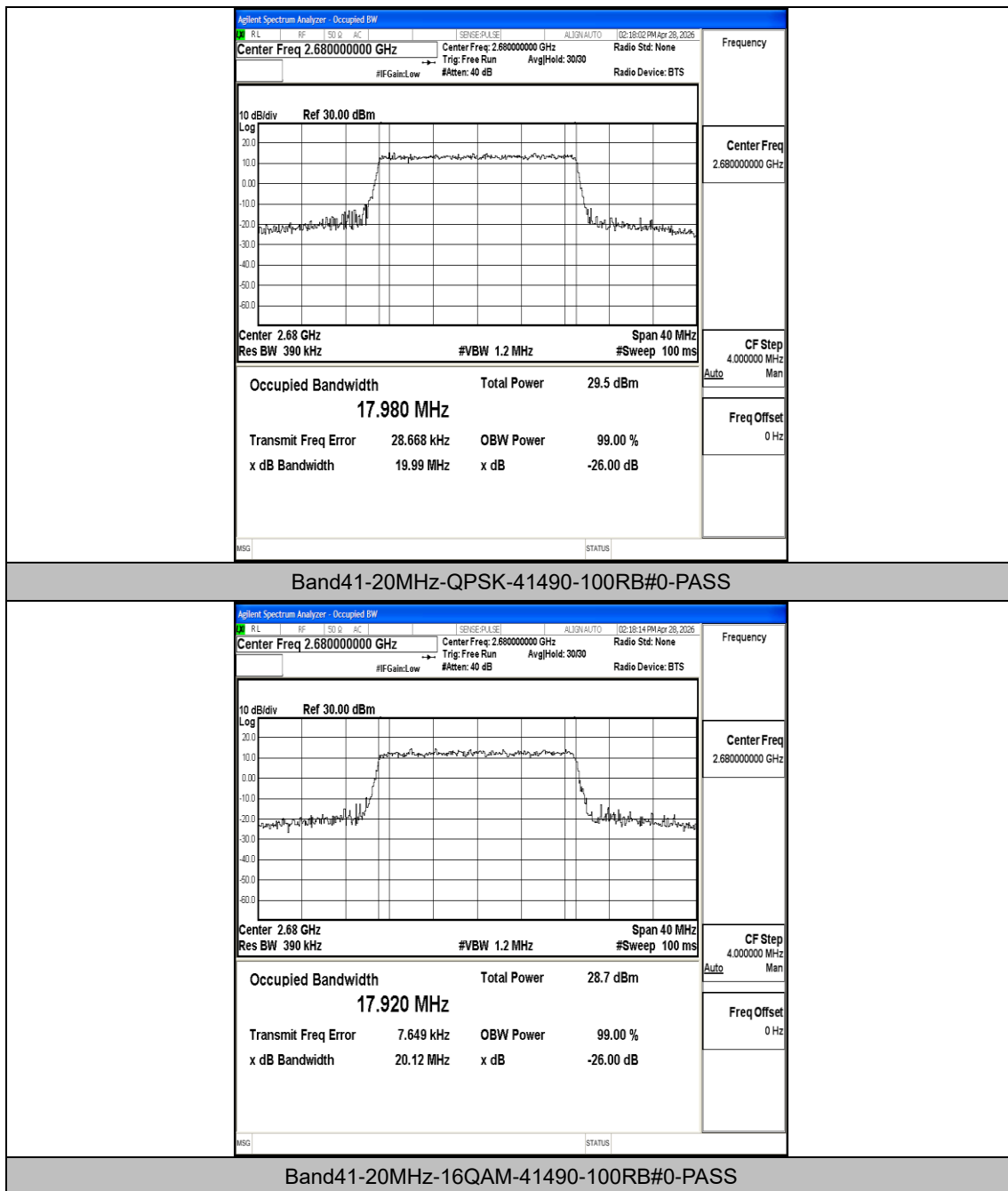












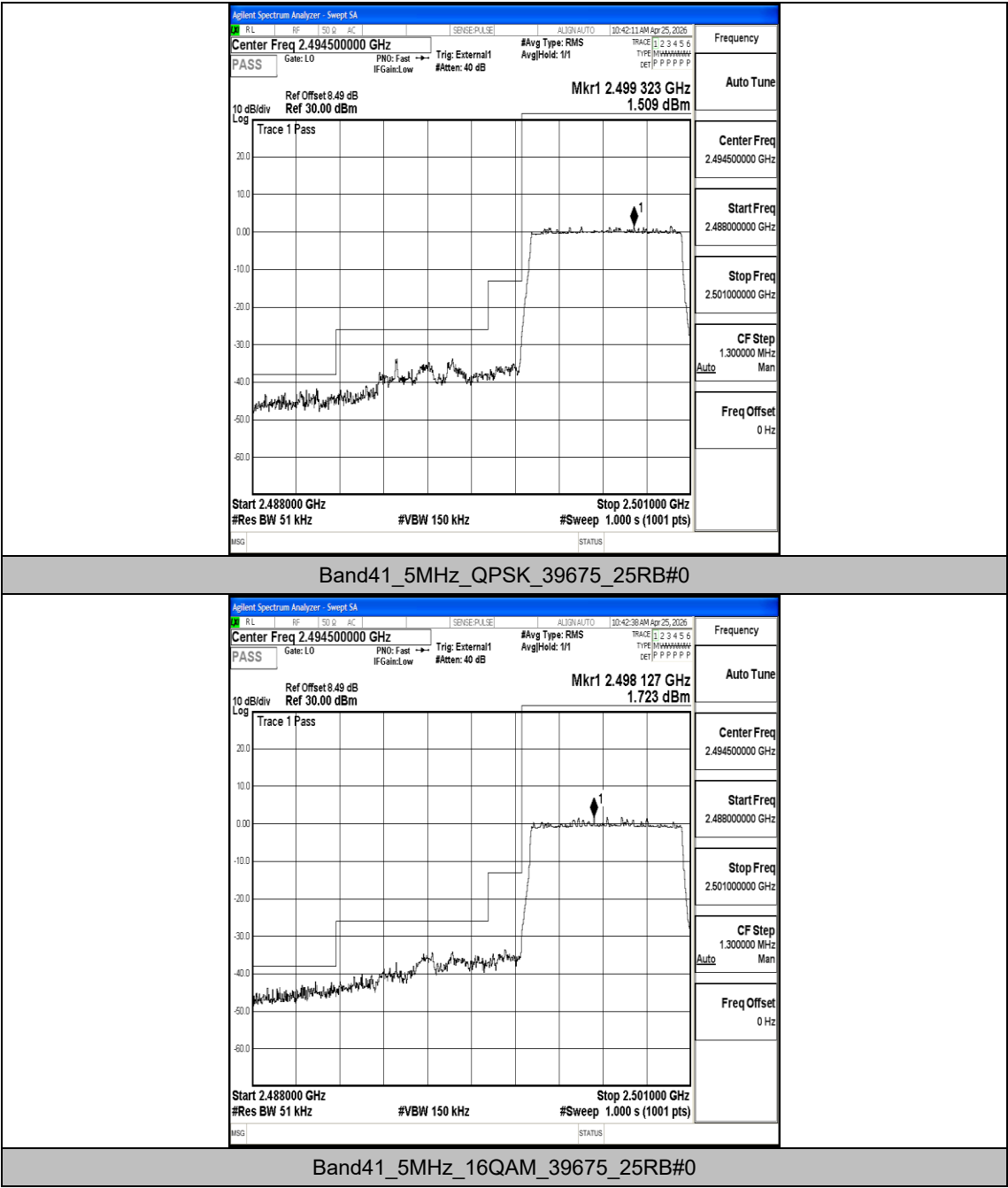


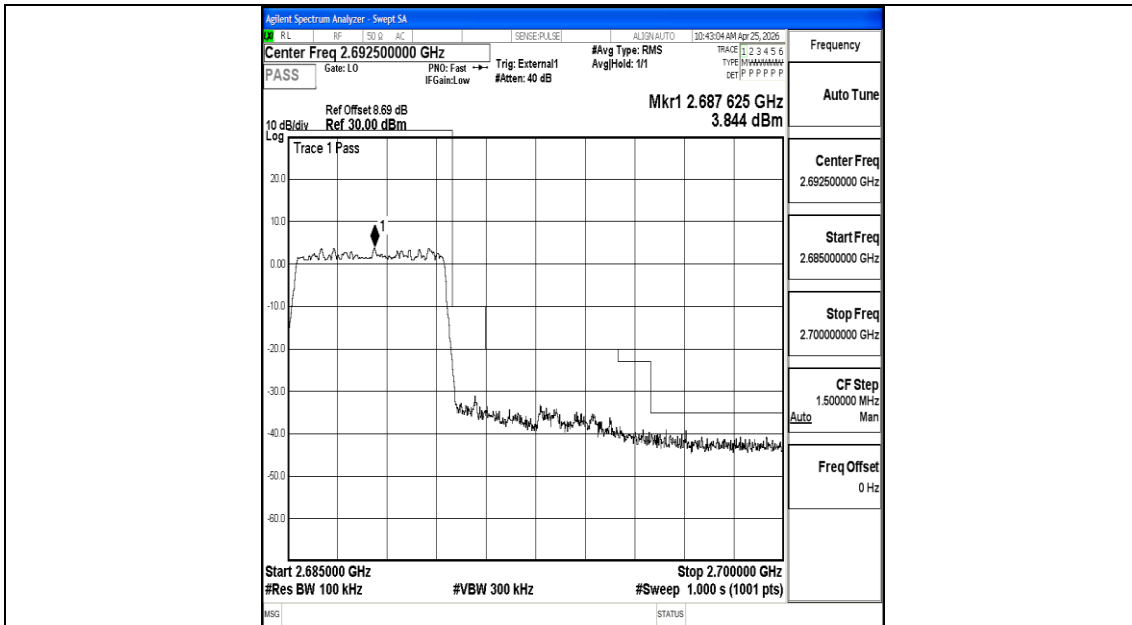
3 Band Edge

Test Result

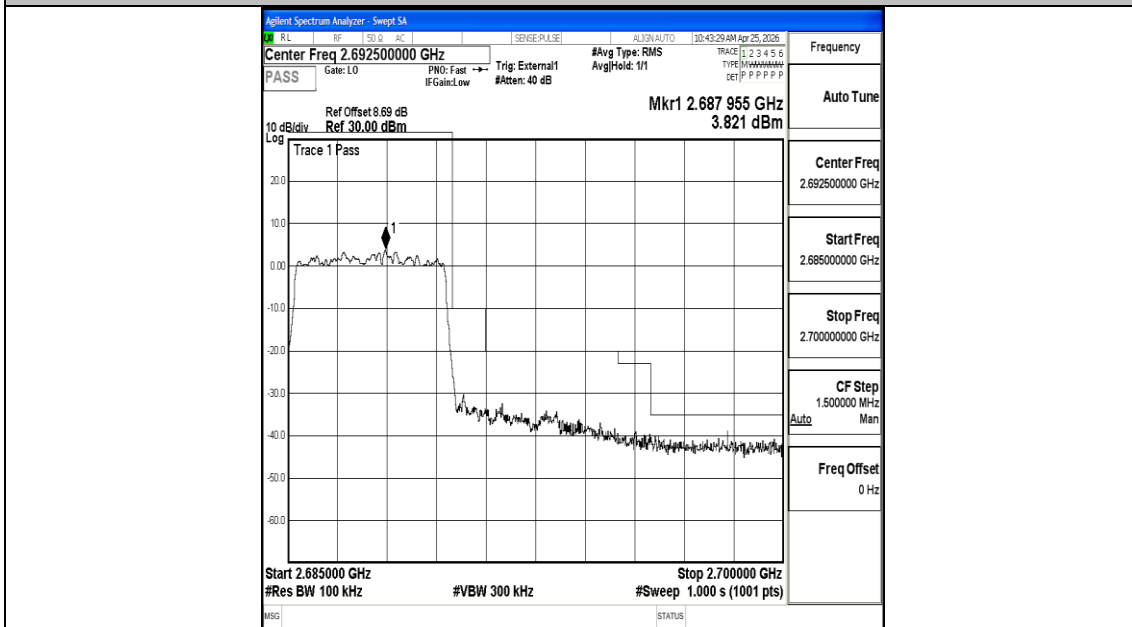
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	2489.91	-41.74	PASS
Band41	5MHz	16QAM	39675	25RB#0	2489.89	-42.15	PASS
Band41	5MHz	QPSK	41565	25RB#0	2696.46	-39.12	PASS
Band41	5MHz	16QAM	41565	25RB#0	2698.31	-38.80	PASS
Band41	10MHz	QPSK	39700	50RB#0	2489.17	-38.68	PASS
Band41	10MHz	16QAM	39700	50RB#0	2489.49	-37.15	PASS
Band41	10MHz	QPSK	41540	50RB#0	2701.90	-36.29	PASS
Band41	10MHz	16QAM	41540	50RB#0	2700.53	-36.55	PASS
Band41	15MHz	QPSK	39725	75RB#0	2489.54	-35.18	PASS
Band41	15MHz	16QAM	39725	75RB#0	2490.28	-35.65	PASS
Band41	15MHz	QPSK	41515	75RB#0	2706.29	-34.58	PASS
Band41	15MHz	16QAM	41515	75RB#0	2705.94	-35.50	PASS
Band41	20MHz	QPSK	39750	100RB#0	2490.44	-35.78	PASS
Band41	20MHz	16QAM	39750	100RB#0	2488.64	-33.92	PASS
Band41	20MHz	QPSK	41490	100RB#0	2711.81	-33.41	PASS
Band41	20MHz	16QAM	41490	100RB#0	2710.28	-34.95	PASS

Test Graphs

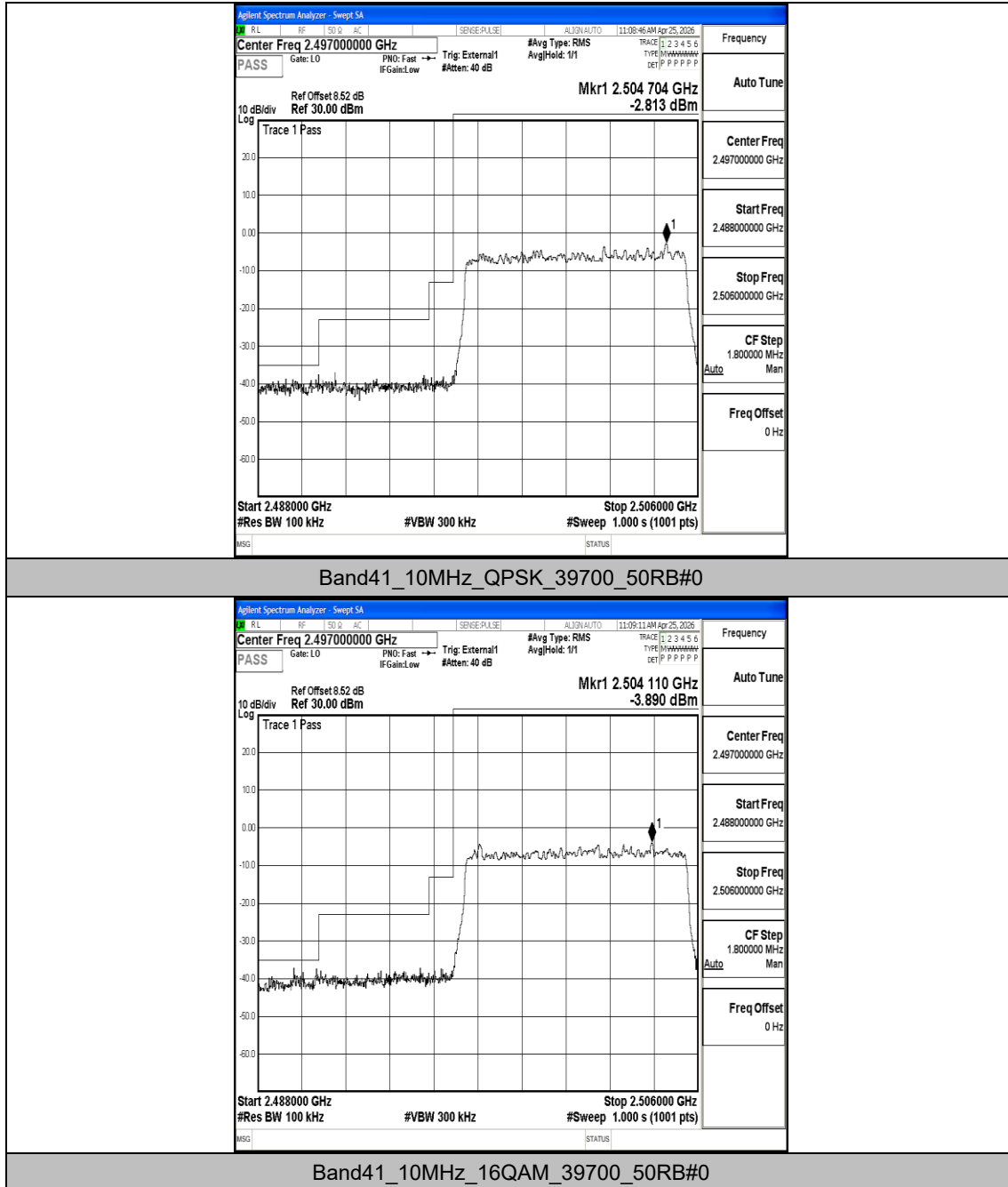


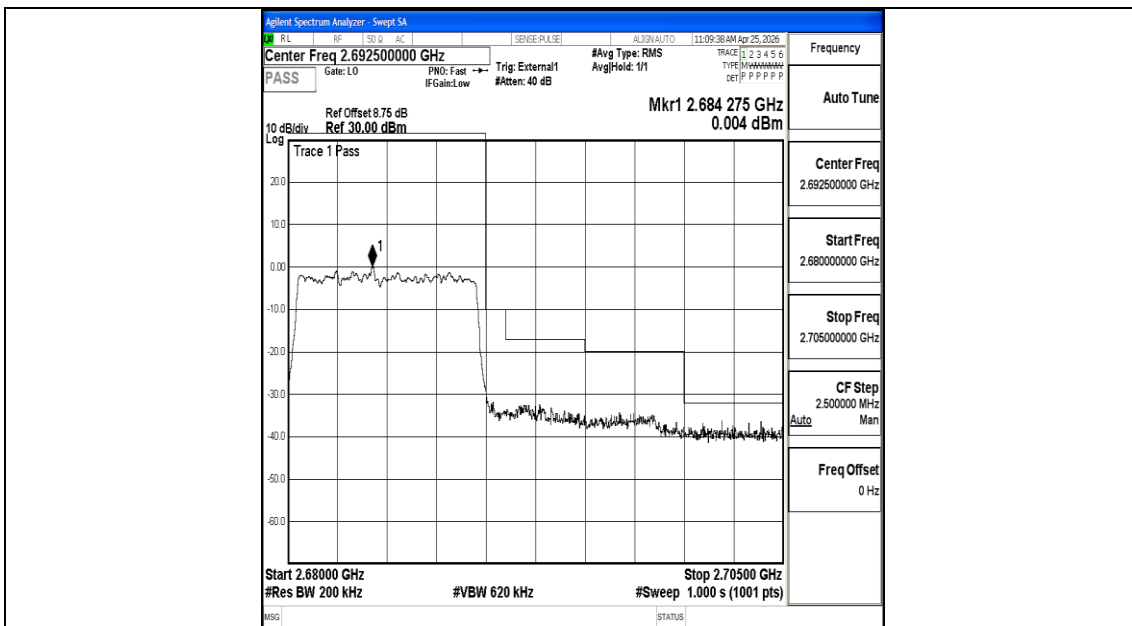


Band41_5MHz_QPSK_41565_25RB#0

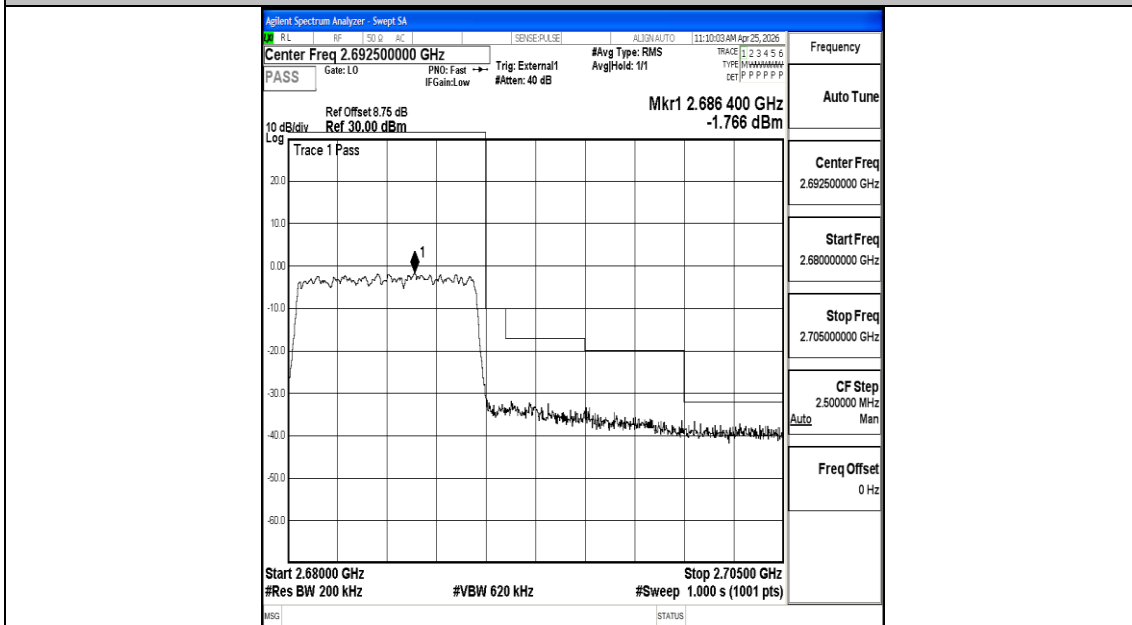


Band41_5MHz_16QAM_41565_25RB#0

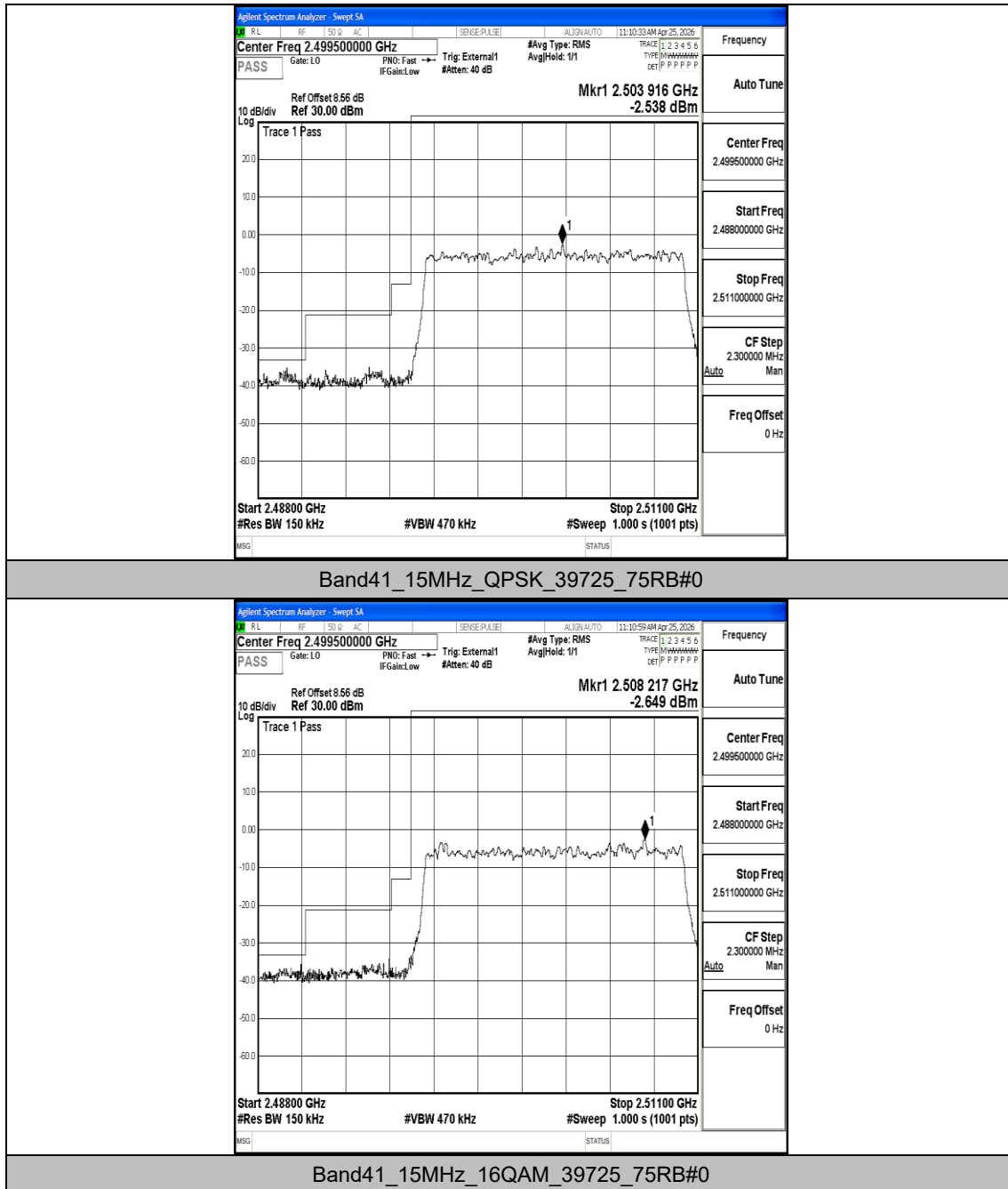


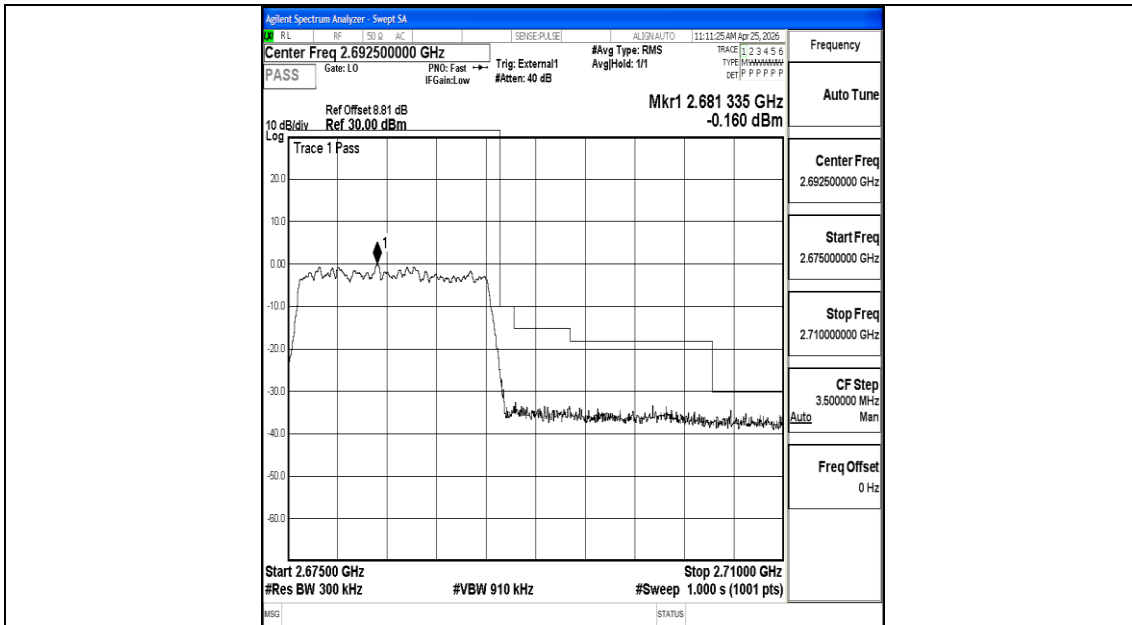


Band41_10MHz_QPSK_41540_50RB#0

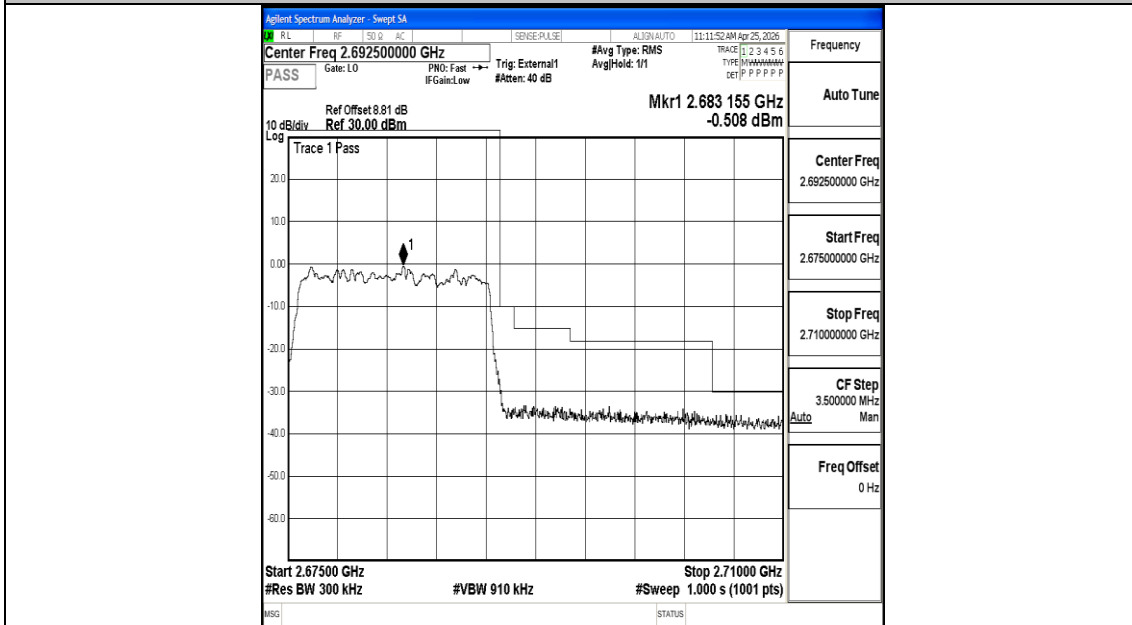


Band41_10MHz_16QAM_41540_50RB#0

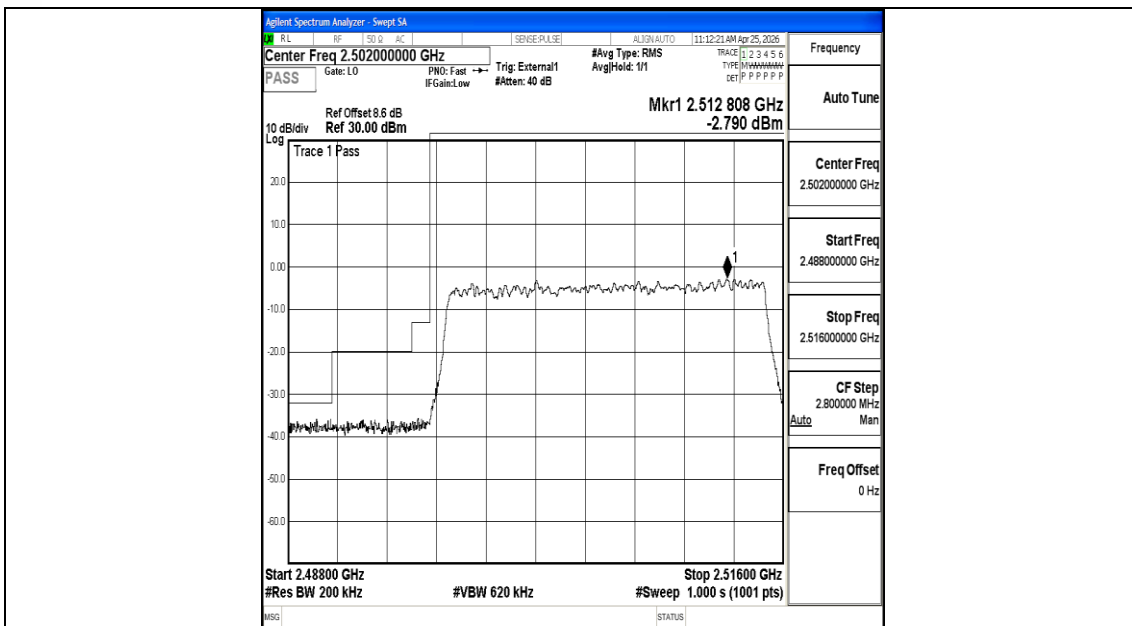




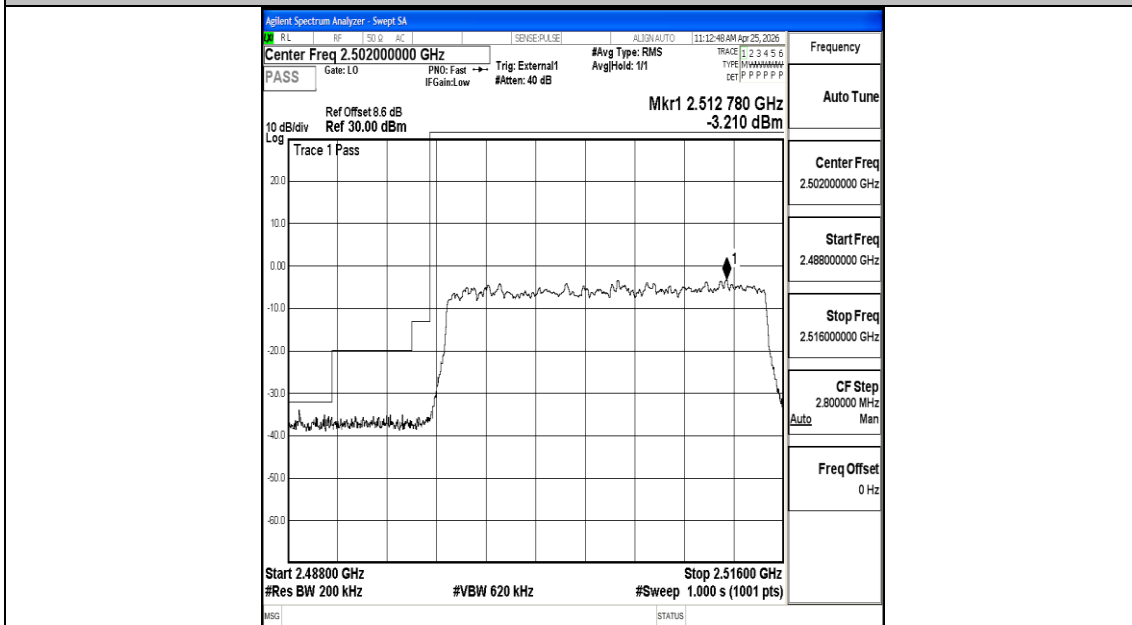
Band41_15MHz_QPSK_41515_75RB#0



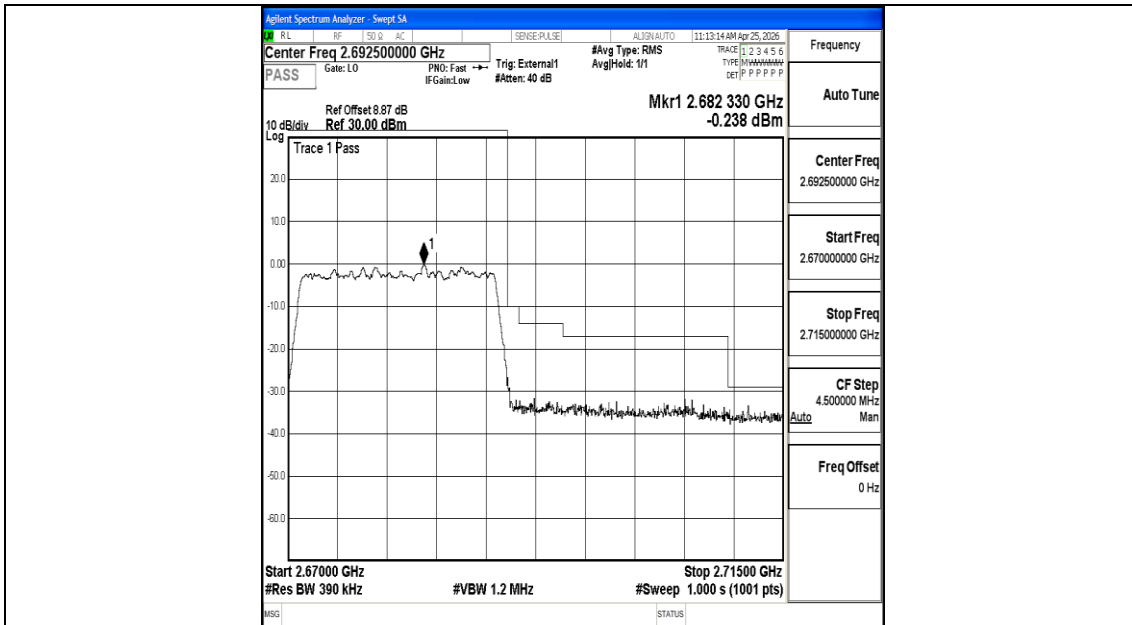
Band41_15MHz_16QAM_41515_75RB#0



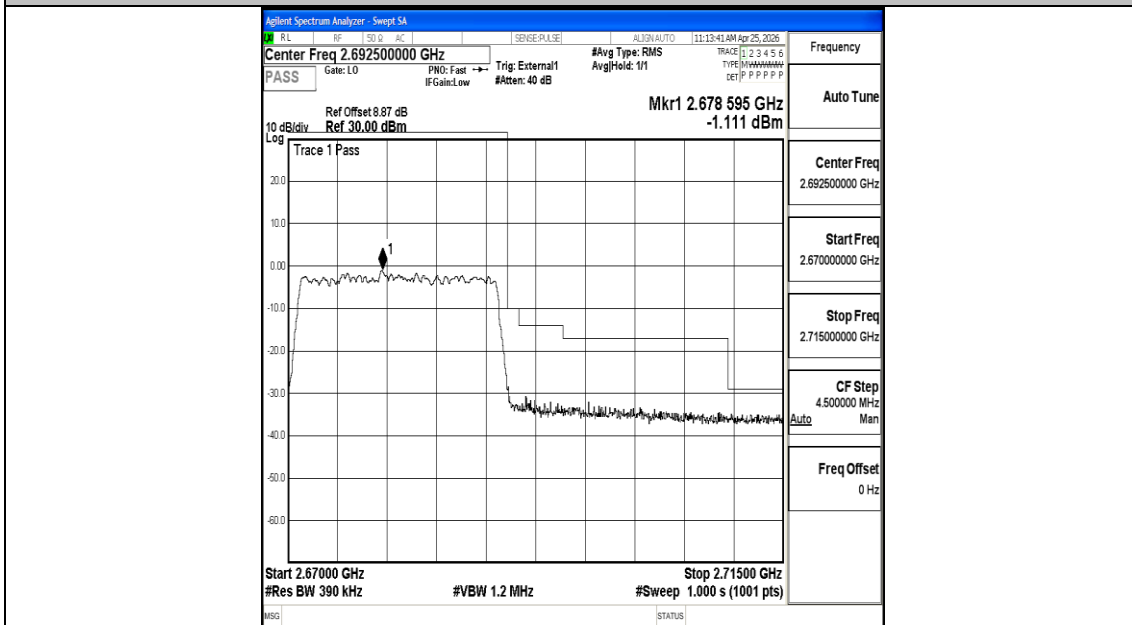
Band41_20MHz_QPSK_39750_100RB#0



Band41_20MHz_16QAM_39750_100RB#0



Band41_20MHz_QPSK_41490_100RB#0



Band41_20MHz_16QAM_41490_100RB#0

4 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	0.009~0.15	-64.84	PASS
Band41	5MHz	QPSK	39675	1RB#0	0.15~30	-63.46	PASS
Band41	5MHz	QPSK	39675	1RB#0	30~1000	-51.68	PASS
Band41	5MHz	QPSK	39675	1RB#0	1000~20000	-27.97	PASS
Band41	5MHz	QPSK	39675	1RB#0	20000~27000	-35.93	PASS
Band41	5MHz	16QAM	39675	1RB#0	0.009~0.15	-64.41	PASS
Band41	5MHz	16QAM	39675	1RB#0	0.15~30	-65.47	PASS
Band41	5MHz	16QAM	39675	1RB#0	30~1000	-52.63	PASS
Band41	5MHz	16QAM	39675	1RB#0	1000~20000	-27.85	PASS
Band41	5MHz	16QAM	39675	1RB#0	20000~27000	-35.98	PASS
Band41	5MHz	QPSK	40620	1RB#0	0.009~0.15	-66.48	PASS
Band41	5MHz	QPSK	40620	1RB#0	0.15~30	-51.82	PASS
Band41	5MHz	QPSK	40620	1RB#0	30~1000	-52.93	PASS
Band41	5MHz	QPSK	40620	1RB#0	1000~20000	-27.47	PASS
Band41	5MHz	QPSK	40620	1RB#0	20000~27000	-34.99	PASS
Band41	5MHz	16QAM	40620	1RB#0	0.009~0.15	-67.04	PASS
Band41	5MHz	16QAM	40620	1RB#0	0.15~30	-48.08	PASS
Band41	5MHz	16QAM	40620	1RB#0	30~1000	-52.84	PASS
Band41	5MHz	16QAM	40620	1RB#0	1000~20000	-28.14	PASS
Band41	5MHz	16QAM	40620	1RB#0	20000~27000	-36.18	PASS
Band41	5MHz	QPSK	41565	1RB#0	0.009~0.15	-67.11	PASS
Band41	5MHz	QPSK	41565	1RB#0	0.15~30	-62.05	PASS
Band41	5MHz	QPSK	41565	1RB#0	30~1000	-52.03	PASS
Band41	5MHz	QPSK	41565	1RB#0	1000~20000	-28.17	PASS
Band41	5MHz	QPSK	41565	1RB#0	20000~27000	-35.64	PASS
Band41	5MHz	16QAM	41565	1RB#0	0.009~0.15	-65.22	PASS
Band41	5MHz	16QAM	41565	1RB#0	0.15~30	-63.46	PASS
Band41	5MHz	16QAM	41565	1RB#0	30~1000	-52.24	PASS
Band41	5MHz	16QAM	41565	1RB#0	1000~20000	-27.78	PASS
Band41	5MHz	16QAM	41565	1RB#0	20000~27000	-35.85	PASS
Band41	10MHz	QPSK	39700	1RB#0	0.009~0.15	-66.60	PASS
Band41	10MHz	QPSK	39700	1RB#0	0.15~30	-65.27	PASS
Band41	10MHz	QPSK	39700	1RB#0	30~1000	-52.98	PASS
Band41	10MHz	QPSK	39700	1RB#0	1000~20000	-28.75	PASS
Band41	10MHz	QPSK	39700	1RB#0	20000~27000	-35.85	PASS
Band41	10MHz	16QAM	39700	1RB#0	0.009~0.15	-65.31	PASS

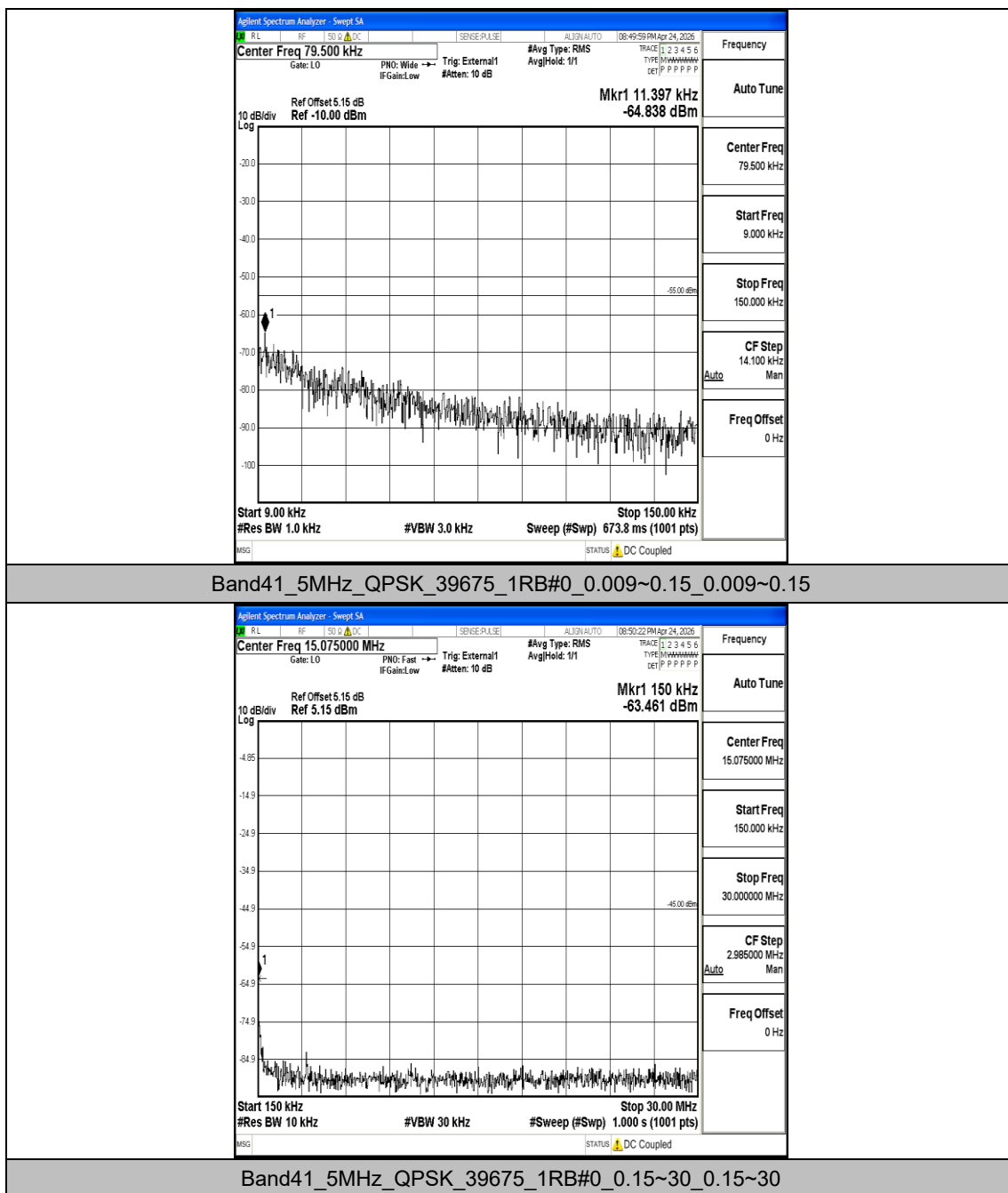


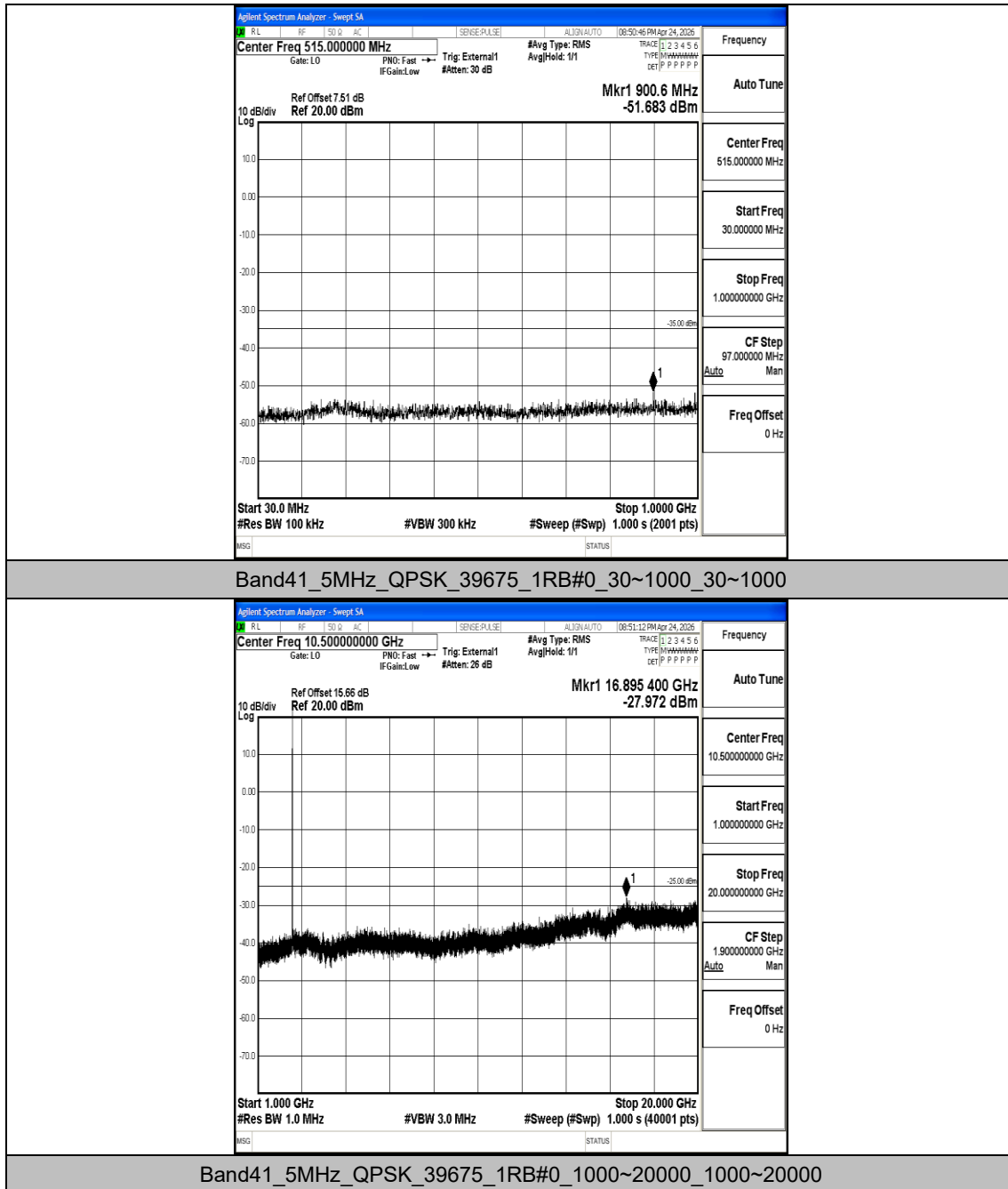
Band41	10MHz	16QAM	39700	1RB#0	0.15~30	-65.86	PASS
Band41	10MHz	16QAM	39700	1RB#0	30~1000	-52.53	PASS
Band41	10MHz	16QAM	39700	1RB#0	1000~20000	-28.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	20000~27000	-35.61	PASS
Band41	10MHz	QPSK	40620	1RB#0	0.009~0.15	-67.36	PASS
Band41	10MHz	QPSK	40620	1RB#0	0.15~30	-62.69	PASS
Band41	10MHz	QPSK	40620	1RB#0	30~1000	-52.65	PASS
Band41	10MHz	QPSK	40620	1RB#0	1000~20000	-27.92	PASS
Band41	10MHz	QPSK	40620	1RB#0	20000~27000	-36.63	PASS
Band41	10MHz	16QAM	40620	1RB#0	0.009~0.15	-67.43	PASS
Band41	10MHz	16QAM	40620	1RB#0	0.15~30	-66.04	PASS
Band41	10MHz	16QAM	40620	1RB#0	30~1000	-52.64	PASS
Band41	10MHz	16QAM	40620	1RB#0	1000~20000	-28.19	PASS
Band41	10MHz	16QAM	40620	1RB#0	20000~27000	-36.40	PASS
Band41	10MHz	QPSK	41540	1RB#0	0.009~0.15	-65.42	PASS
Band41	10MHz	QPSK	41540	1RB#0	0.15~30	-62.36	PASS
Band41	10MHz	QPSK	41540	1RB#0	30~1000	-53.08	PASS
Band41	10MHz	QPSK	41540	1RB#0	1000~20000	-28.13	PASS
Band41	10MHz	QPSK	41540	1RB#0	20000~27000	-36.04	PASS
Band41	10MHz	16QAM	41540	1RB#0	0.009~0.15	-64.69	PASS
Band41	10MHz	16QAM	41540	1RB#0	0.15~30	-61.48	PASS
Band41	10MHz	16QAM	41540	1RB#0	30~1000	-52.17	PASS
Band41	15MHz	QPSK	39725	1RB#0	0.009~0.15	-64.55	PASS
Band41	15MHz	QPSK	39725	1RB#0	0.15~30	-63.32	PASS
Band41	15MHz	QPSK	39725	1RB#0	30~1000	-52.80	PASS
Band41	15MHz	QPSK	39725	1RB#0	1000~20000	-28.50	PASS
Band41	10MHz	16QAM	41540	1RB#0	1000~20000	-27.86	PASS
Band41	10MHz	16QAM	41540	1RB#0	20000~27000	-35.64	PASS
Band41	15MHz	QPSK	39725	1RB#0	20000~27000	-36.05	PASS
Band41	15MHz	16QAM	39725	1RB#0	0.009~0.15	-64.74	PASS
Band41	15MHz	16QAM	39725	1RB#0	0.15~30	-65.30	PASS
Band41	15MHz	16QAM	39725	1RB#0	30~1000	-53.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	1000~20000	-28.23	PASS
Band41	15MHz	16QAM	39725	1RB#0	20000~27000	-36.40	PASS
Band41	15MHz	QPSK	40620	1RB#0	0.009~0.15	-65.63	PASS
Band41	15MHz	QPSK	40620	1RB#0	0.15~30	-49.55	PASS
Band41	15MHz	QPSK	40620	1RB#0	30~1000	-52.19	PASS
Band41	15MHz	QPSK	40620	1RB#0	1000~20000	-27.99	PASS
Band41	15MHz	QPSK	40620	1RB#0	20000~27000	-35.57	PASS
Band41	15MHz	16QAM	40620	1RB#0	0.009~0.15	-65.95	PASS
Band41	15MHz	16QAM	40620	1RB#0	0.15~30	-48.75	PASS
Band41	15MHz	16QAM	40620	1RB#0	30~1000	-52.99	PASS
Band41	15MHz	16QAM	40620	1RB#0	1000~20000	-28.33	PASS

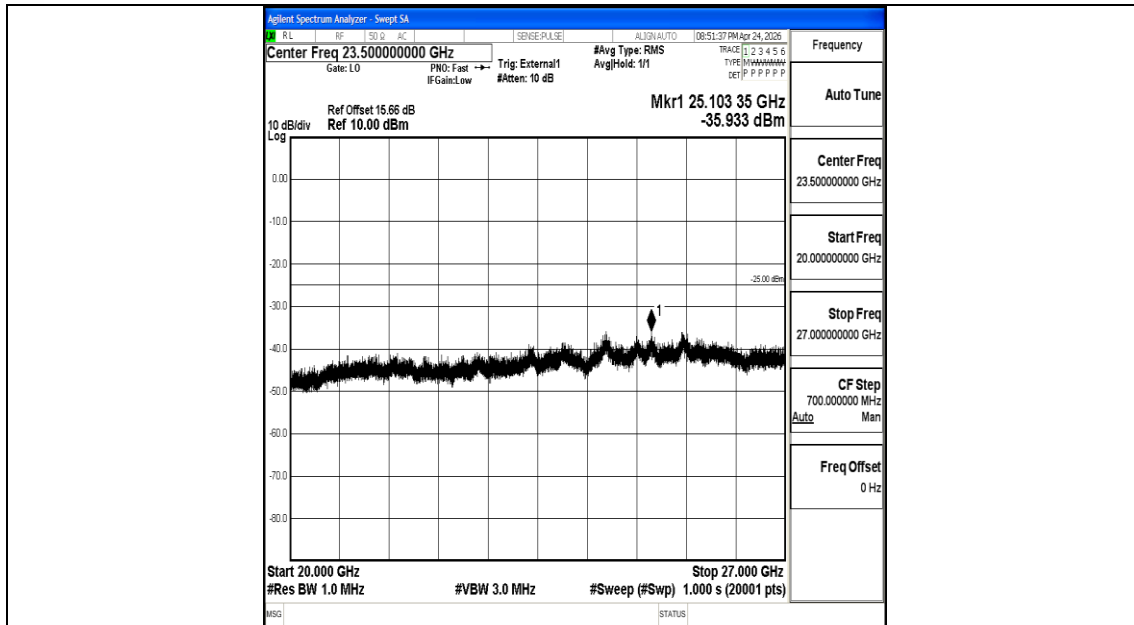


Band41	15MHz	16QAM	40620	1RB#0	20000~27000	-35.59	PASS
Band41	15MHz	QPSK	41515	1RB#0	0.009~0.15	-64.56	PASS
Band41	15MHz	QPSK	41515	1RB#0	0.15~30	-62.74	PASS
Band41	15MHz	QPSK	41515	1RB#0	30~1000	-52.45	PASS
Band41	15MHz	QPSK	41515	1RB#0	1000~20000	-27.90	PASS
Band41	15MHz	QPSK	41515	1RB#0	20000~27000	-35.51	PASS
Band41	15MHz	16QAM	41515	1RB#0	0.009~0.15	-65.96	PASS
Band41	15MHz	16QAM	41515	1RB#0	0.15~30	-63.50	PASS
Band41	15MHz	16QAM	41515	1RB#0	30~1000	-52.71	PASS
Band41	15MHz	16QAM	41515	1RB#0	1000~20000	-28.27	PASS
Band41	15MHz	16QAM	41515	1RB#0	20000~27000	-36.06	PASS
Band41	20MHz	QPSK	39750	1RB#0	0.009~0.15	-65.86	PASS
Band41	20MHz	QPSK	39750	1RB#0	0.15~30	-60.33	PASS
Band41	20MHz	QPSK	39750	1RB#0	30~1000	-52.21	PASS
Band41	20MHz	QPSK	39750	1RB#0	1000~20000	-27.62	PASS
Band41	20MHz	QPSK	39750	1RB#0	20000~27000	-36.37	PASS
Band41	20MHz	16QAM	39750	1RB#0	0.009~0.15	-66.32	PASS
Band41	20MHz	16QAM	39750	1RB#0	0.15~30	-62.43	PASS
Band41	20MHz	16QAM	39750	1RB#0	30~1000	-51.48	PASS
Band41	20MHz	16QAM	39750	1RB#0	1000~20000	-27.89	PASS
Band41	20MHz	16QAM	39750	1RB#0	20000~27000	-36.42	PASS
Band41	20MHz	QPSK	40620	1RB#0	0.009~0.15	-66.68	PASS
Band41	20MHz	QPSK	40620	1RB#0	0.15~30	-50.72	PASS
Band41	20MHz	QPSK	40620	1RB#0	30~1000	-52.79	PASS
Band41	20MHz	QPSK	40620	1RB#0	1000~20000	-26.39	PASS
Band41	20MHz	QPSK	40620	1RB#0	20000~27000	-35.47	PASS
Band41	20MHz	16QAM	40620	1RB#0	0.009~0.15	-65.34	PASS
Band41	20MHz	16QAM	40620	1RB#0	0.15~30	-49.17	PASS
Band41	20MHz	16QAM	40620	1RB#0	30~1000	-53.21	PASS
Band41	20MHz	16QAM	40620	1RB#0	1000~20000	-27.76	PASS
Band41	20MHz	16QAM	40620	1RB#0	20000~27000	-36.38	PASS
Band41	20MHz	QPSK	41490	1RB#0	0.009~0.15	-65.81	PASS
Band41	20MHz	QPSK	41490	1RB#0	0.15~30	-63.36	PASS
Band41	20MHz	QPSK	41490	1RB#0	30~1000	-53.07	PASS
Band41	20MHz	QPSK	41490	1RB#0	1000~20000	-27.88	PASS
Band41	20MHz	QPSK	41490	1RB#0	20000~27000	-34.76	PASS
Band41	20MHz	16QAM	41490	1RB#0	0.009~0.15	-64.80	PASS
Band41	20MHz	16QAM	41490	1RB#0	0.15~30	-65.98	PASS
Band41	20MHz	16QAM	41490	1RB#0	30~1000	-52.96	PASS
Band41	20MHz	16QAM	41490	1RB#0	1000~20000	-28.18	PASS
Band41	20MHz	16QAM	41490	1RB#0	20000~27000	-35.92	PASS

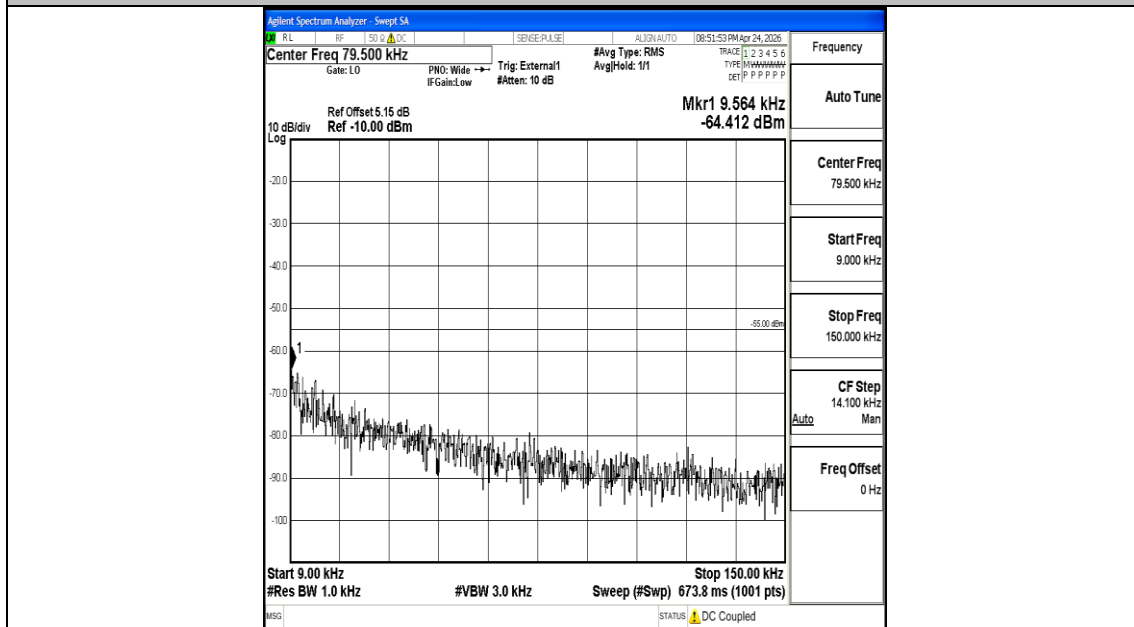
Test Graphs



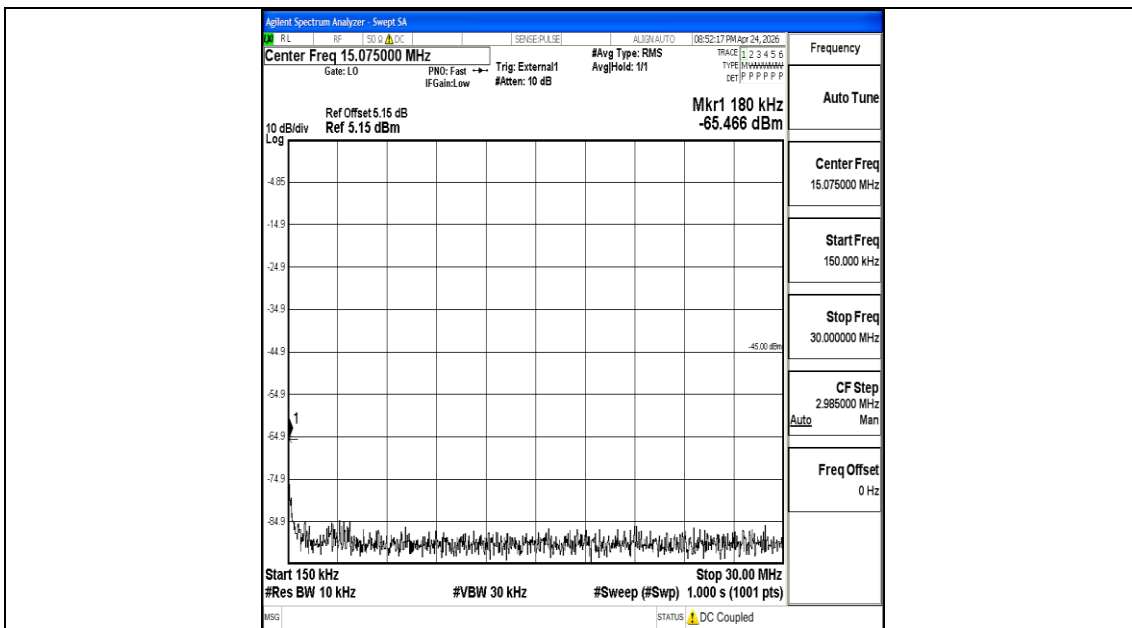




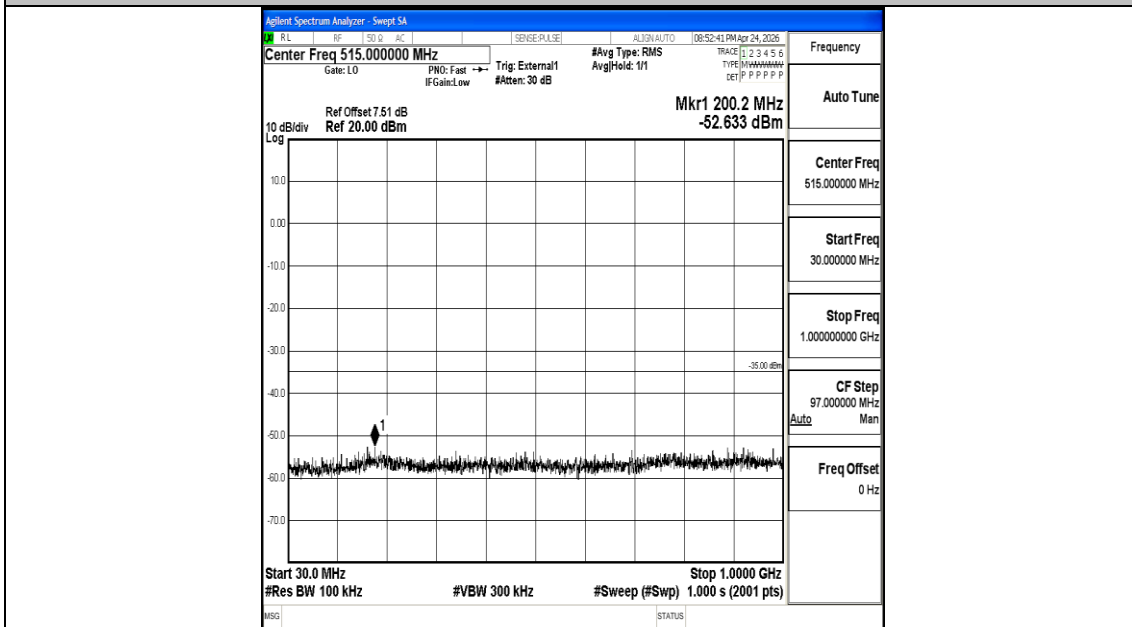
Band41_5MHz_QPSK_39675_1RB#0_20000~27000_20000~27000



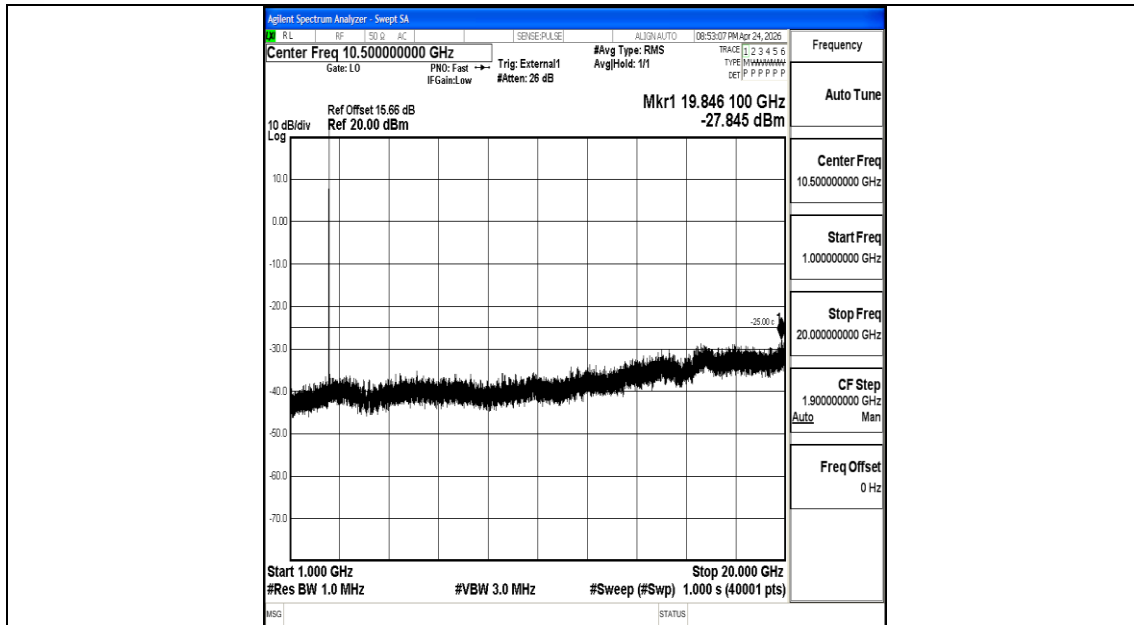
Band41_5MHz_16QAM_39675_1RB#0_0.009~0.15_0.009~0.15



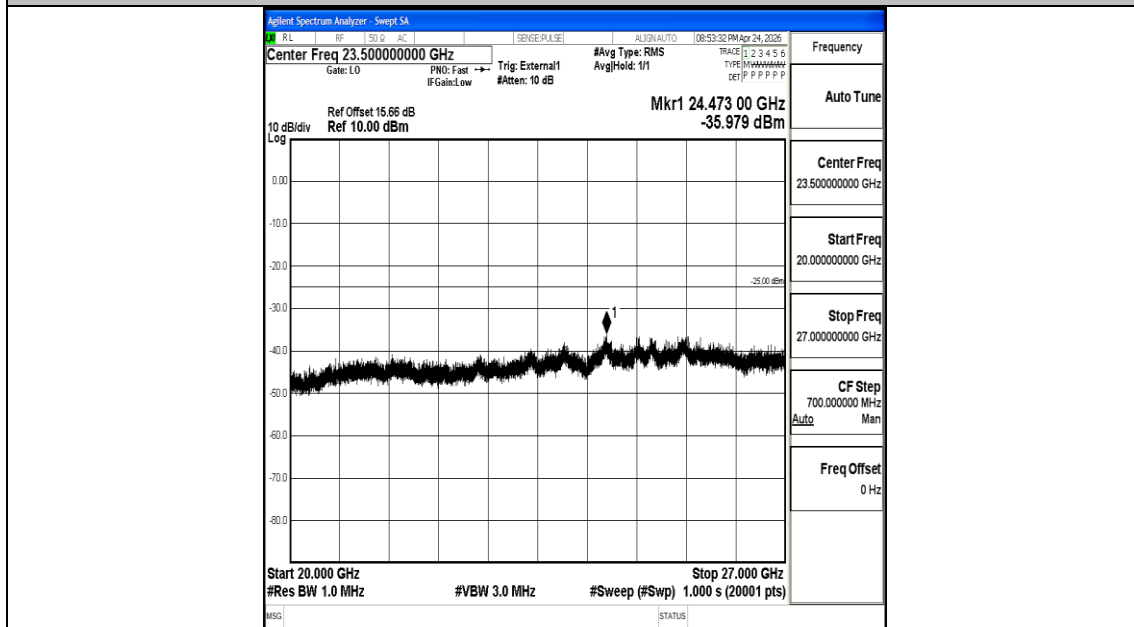
Band41_5MHz_16QAM_39675_1RB#0_0.15~30_0.15~30



Band41_5MHz_16QAM_39675_1RB#0_30~1000_30~1000



Band41_5MHz_16QAM_39675_1RB#0_1000~20000_1000~20000



Band41_5MHz_16QAM_39675_1RB#0_20000~27000_20000~27000

