

FCC Appendix RF Test Data for LTE Band 38

Product Name: AI camera

Test Model: K7 max, K8 max

Environmental Conditions

Temperature:	23.4°C
Relative Humidity:	54.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

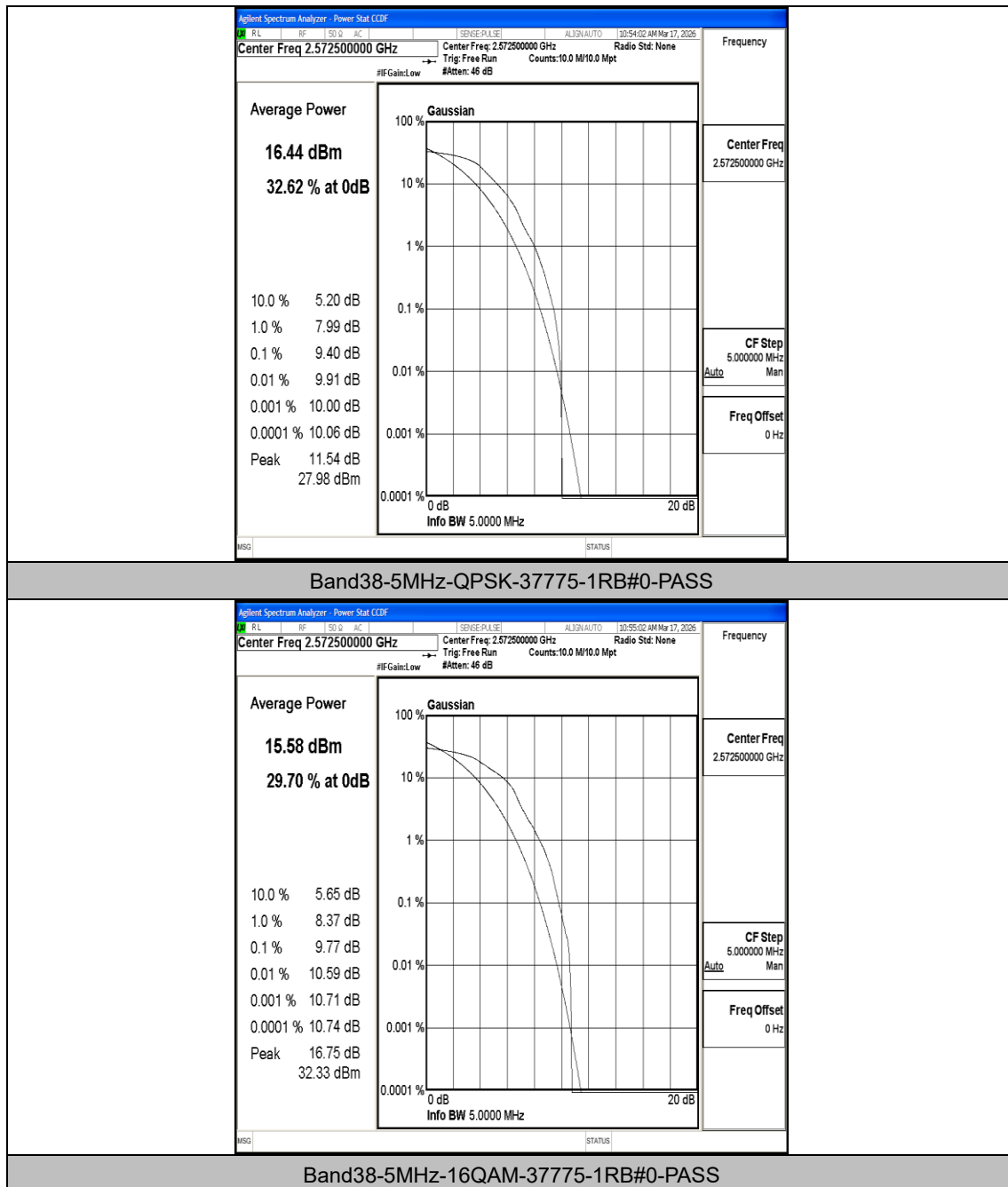
A Peak-to-Average Ratio(CCDF)

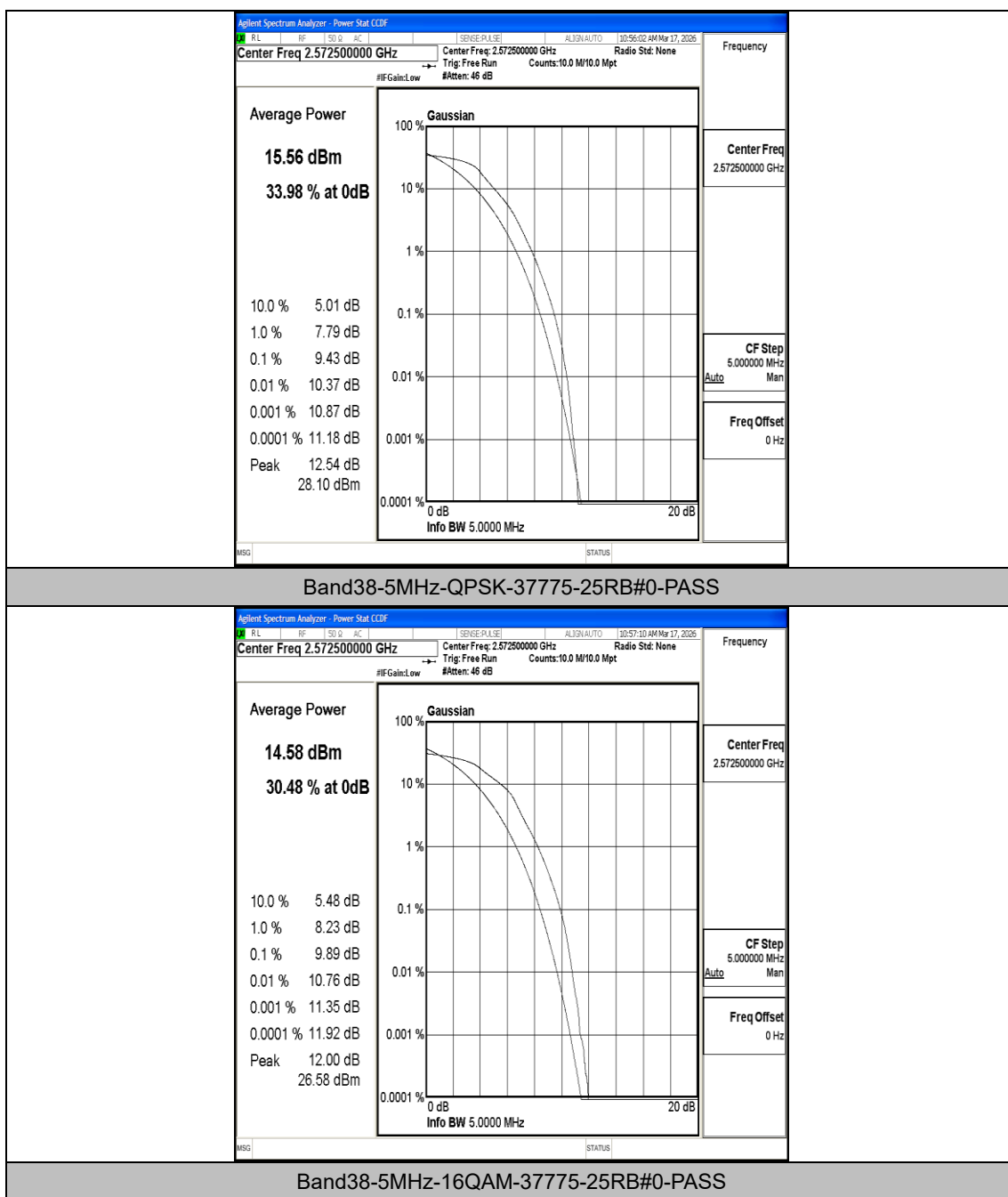
Test Result

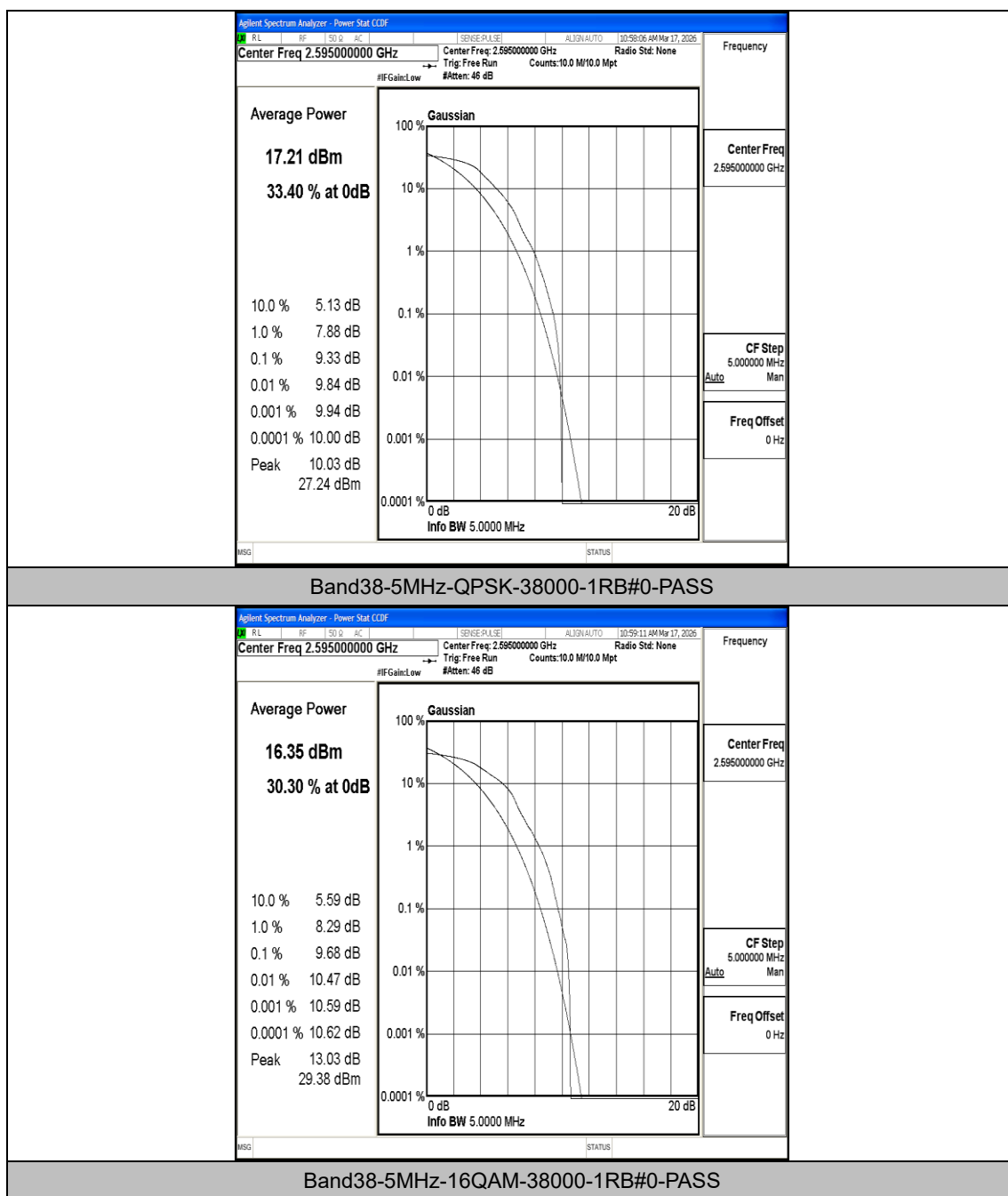
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	9.40	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.77	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.43	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.89	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	9.33	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.68	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.40	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	10.03	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.93	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	9.52	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.24	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.87	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	9.40	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.82	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.29	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	10.06	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	9.11	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.90	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.27	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.97	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	9.23	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	9.93	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.12	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.82	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	9.11	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.72	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.78	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.88	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	9.24	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.66	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.70	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	10.15	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	9.26	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.96	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.86	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	9.87	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.97	13	PASS

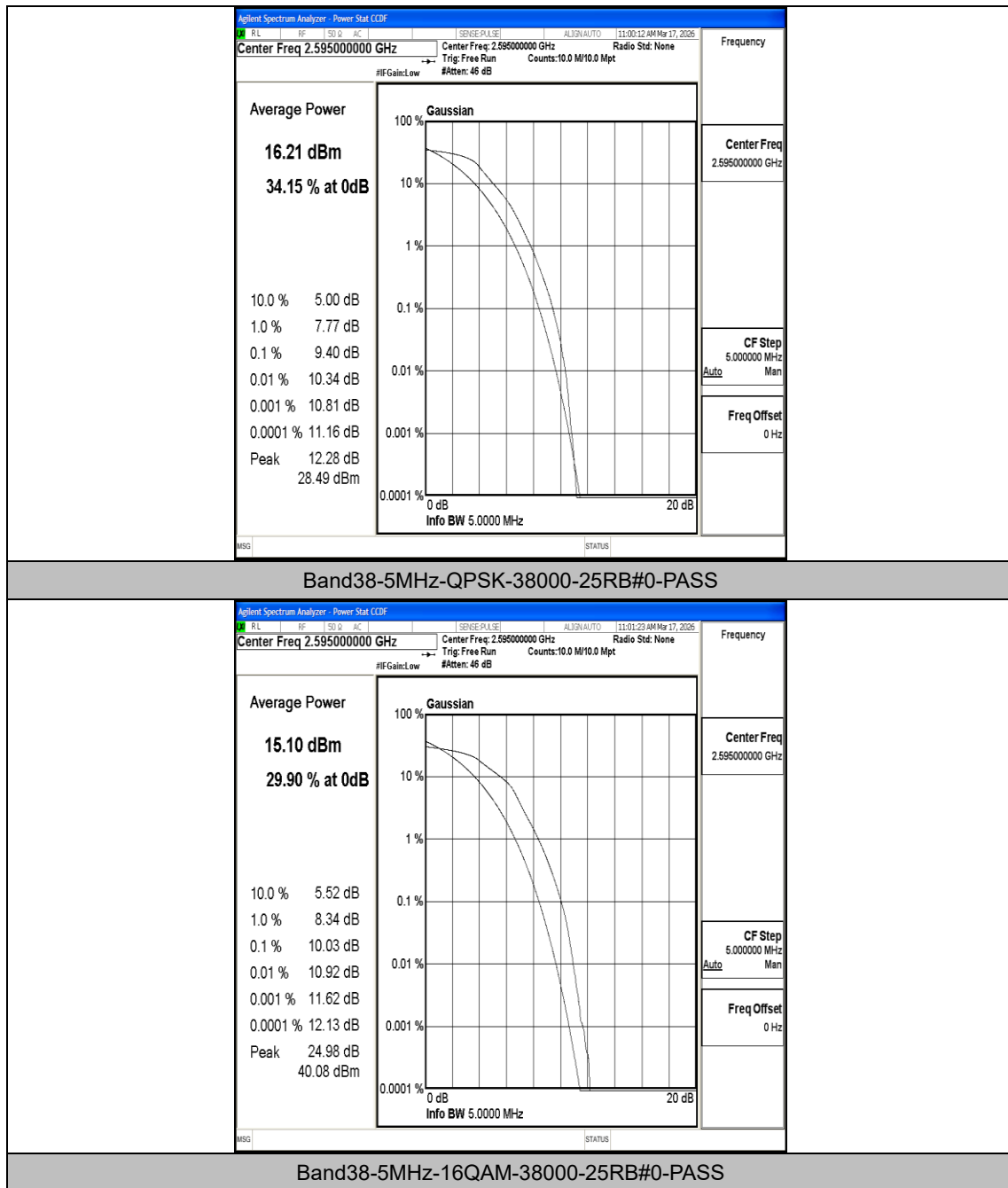
Band38	20MHz	16QAM	37850	1RB#0	9.42	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	8.74	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.95	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	9.25	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.94	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.42	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.80	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	9.03	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.77	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.73	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.98	13	PASS

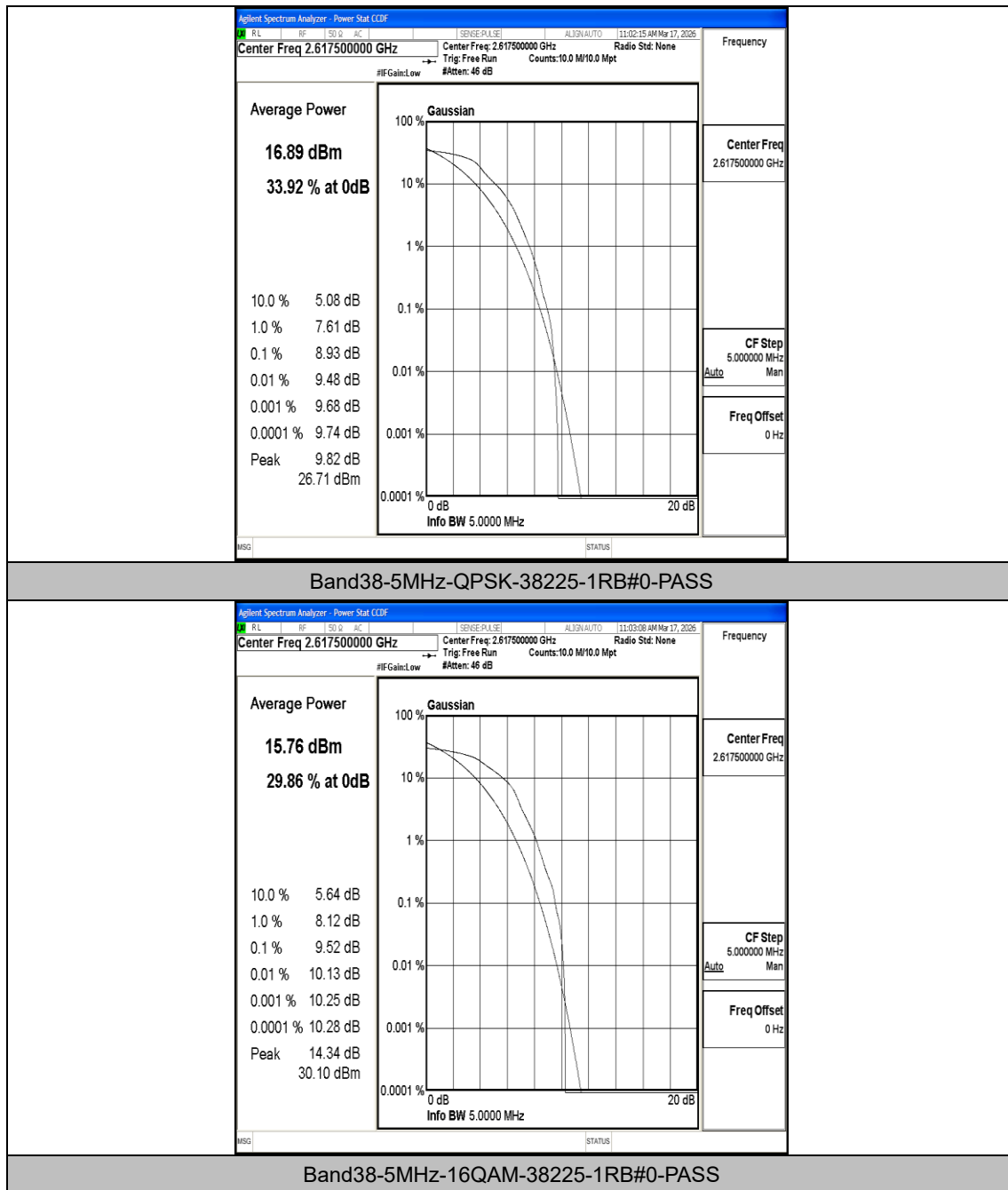
Test Graphs

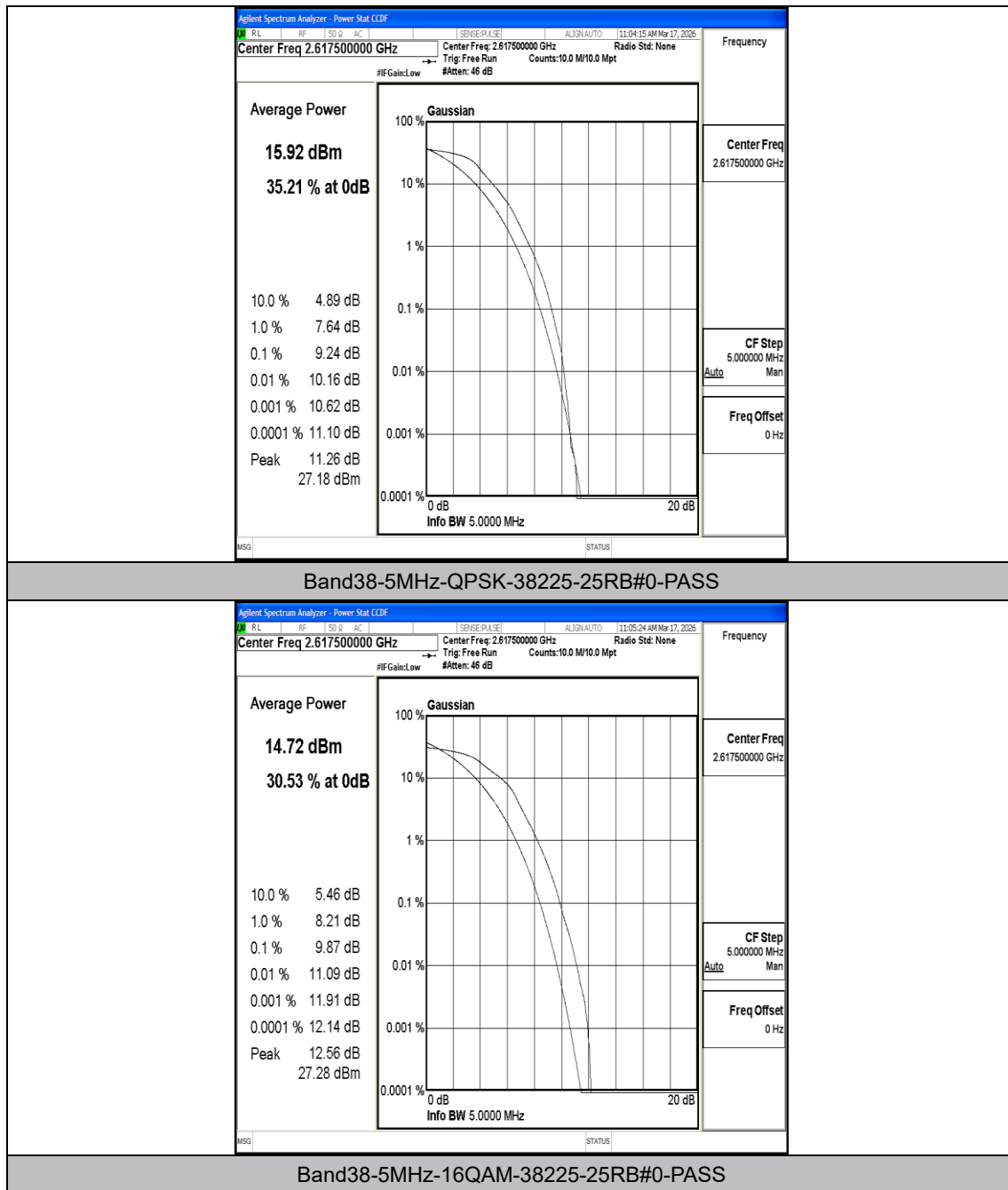


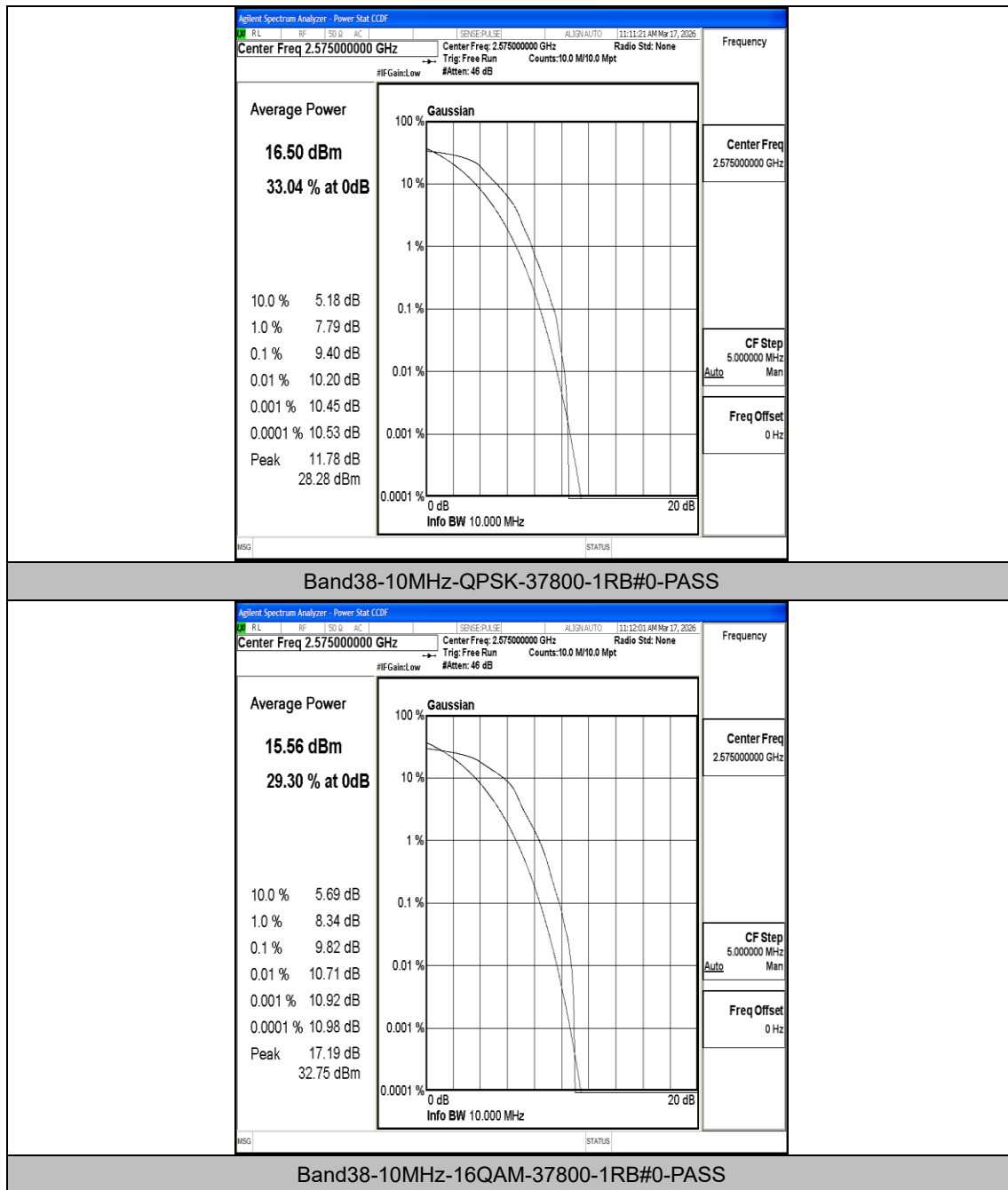


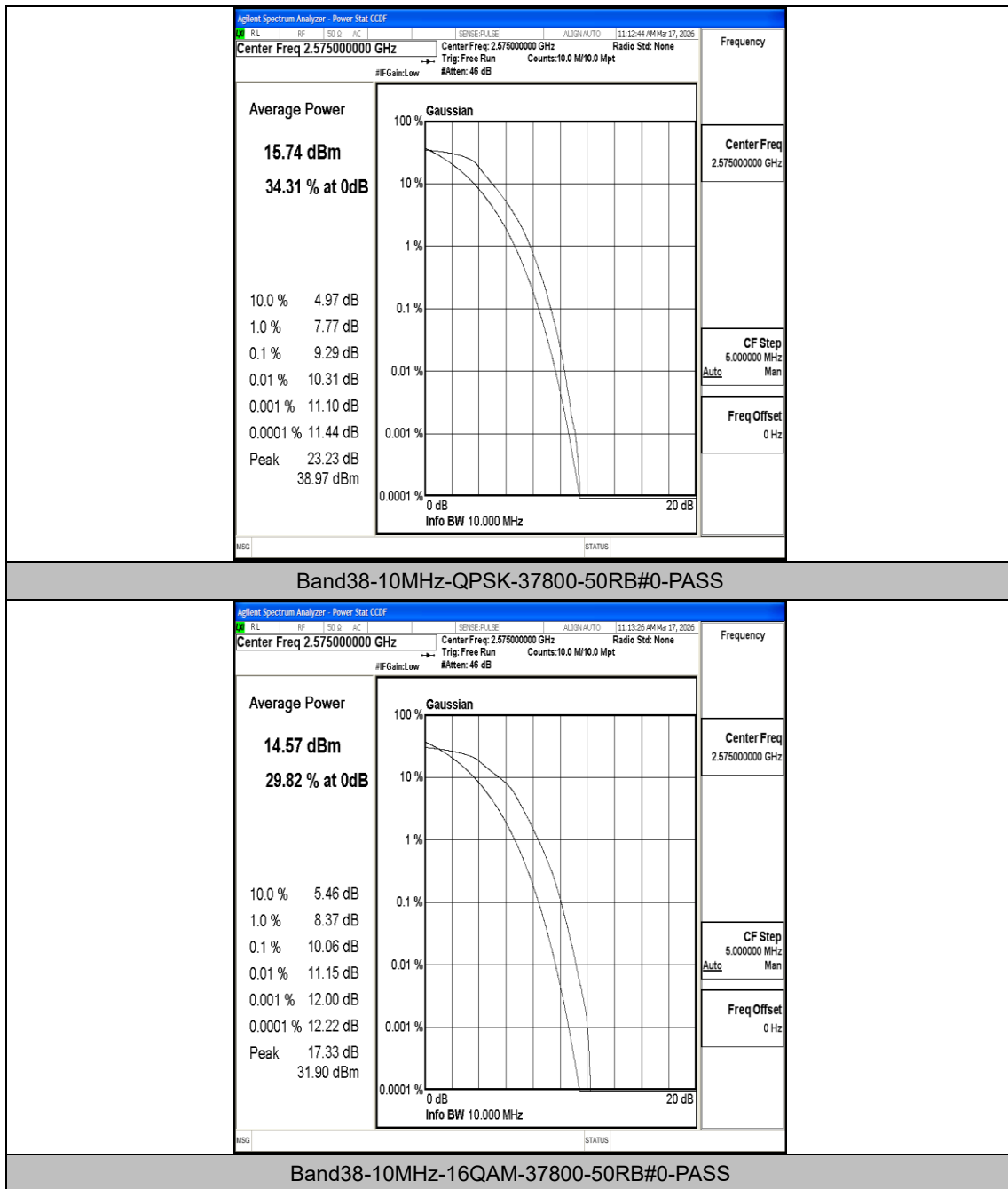


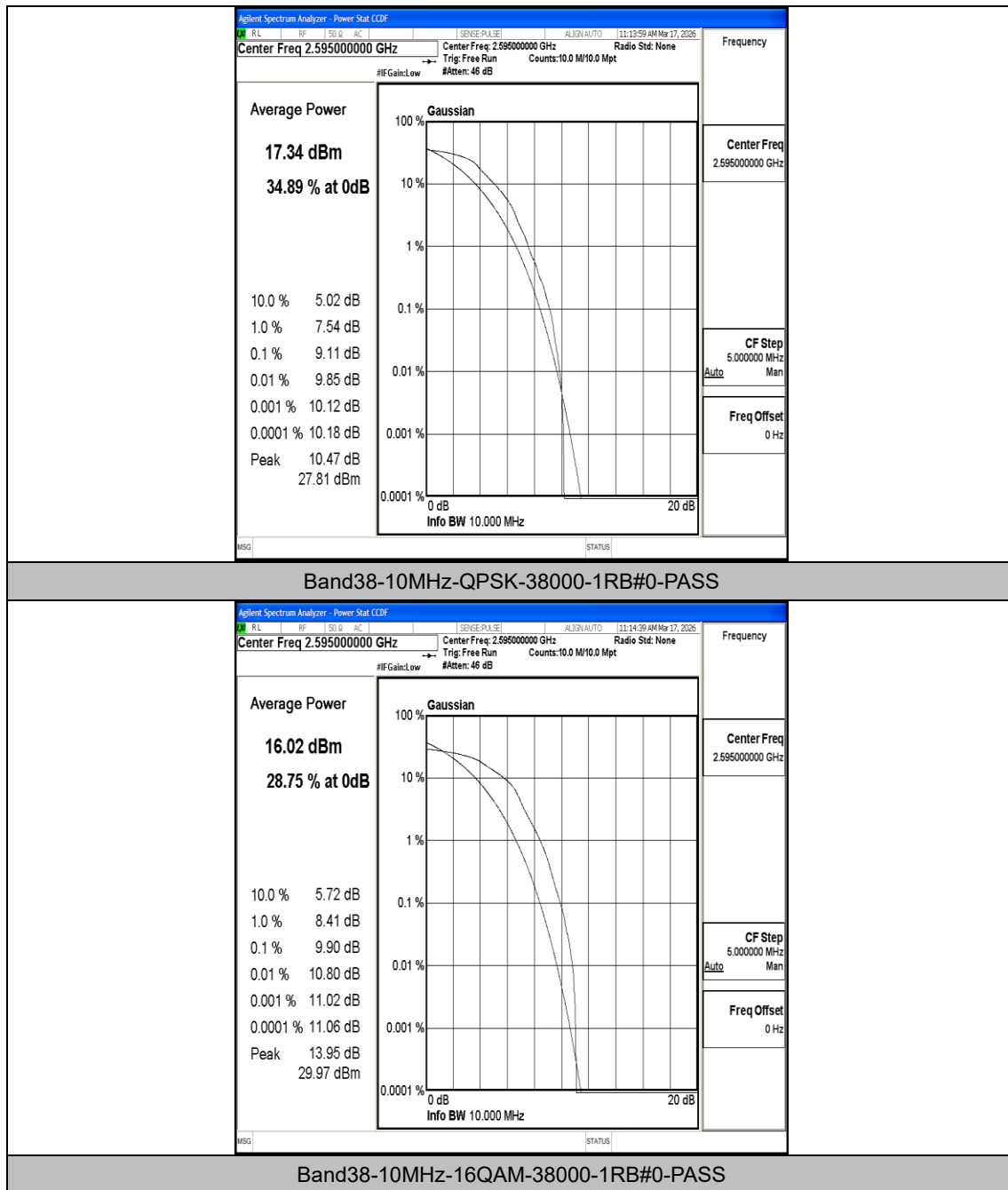


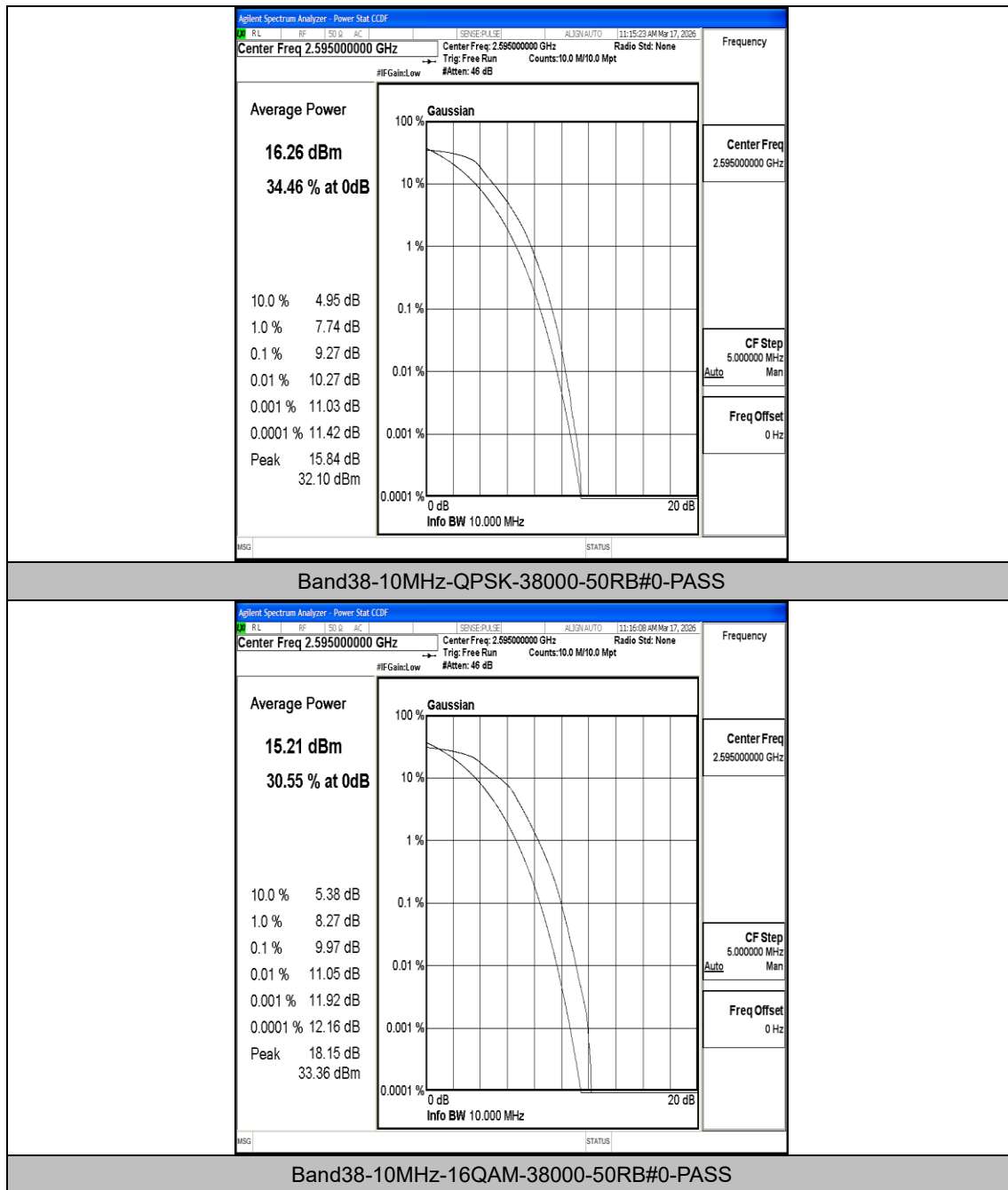


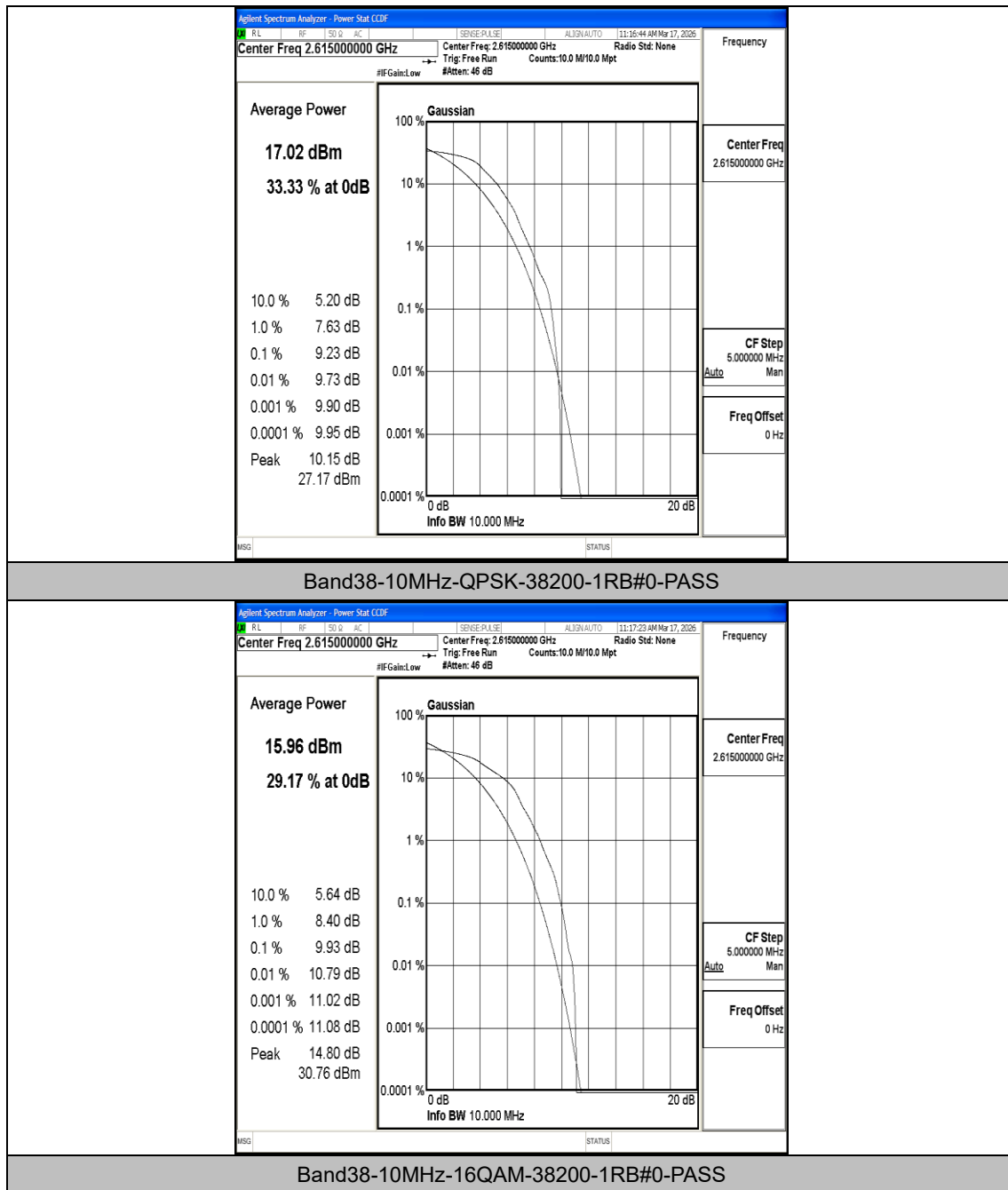


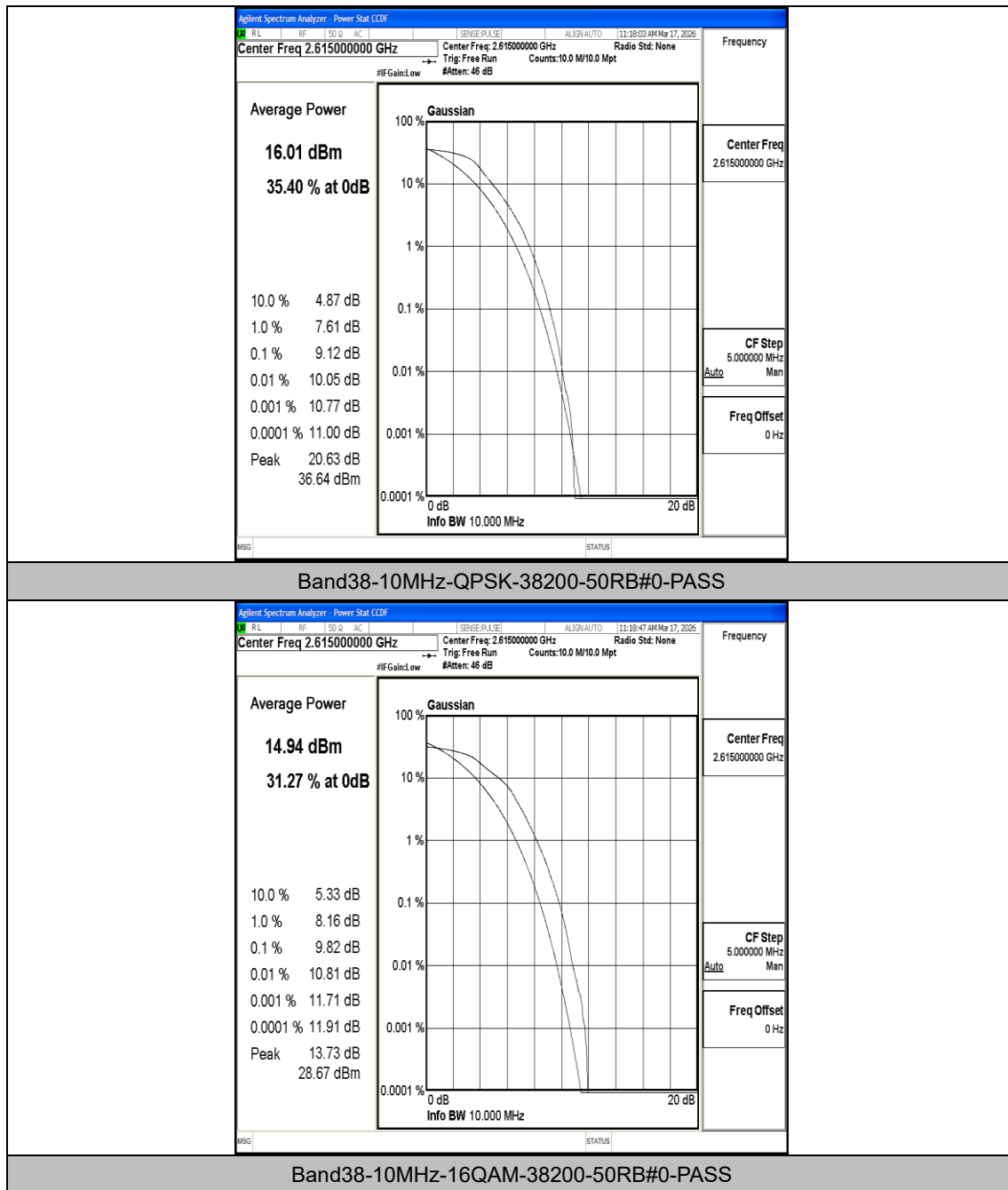


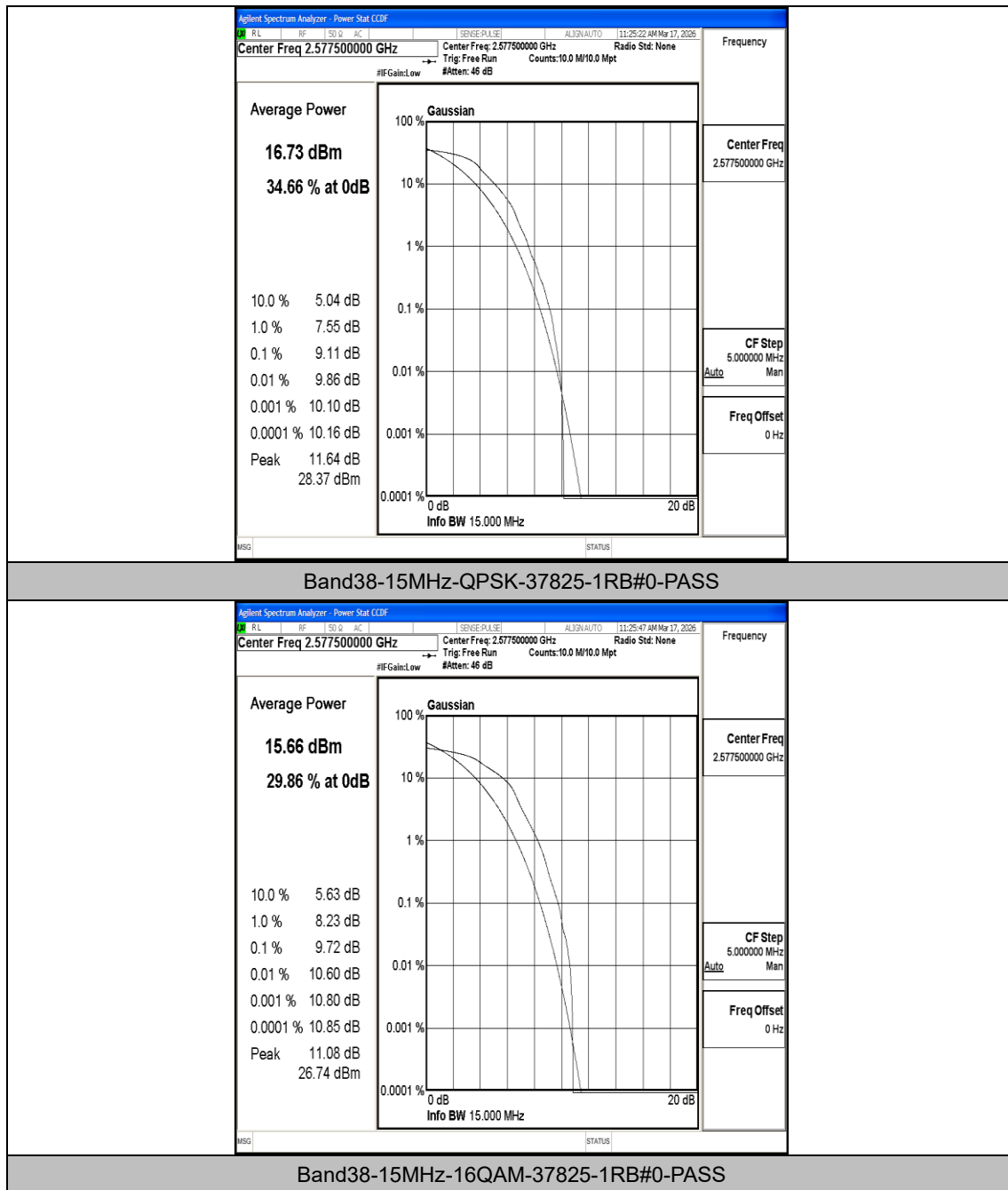


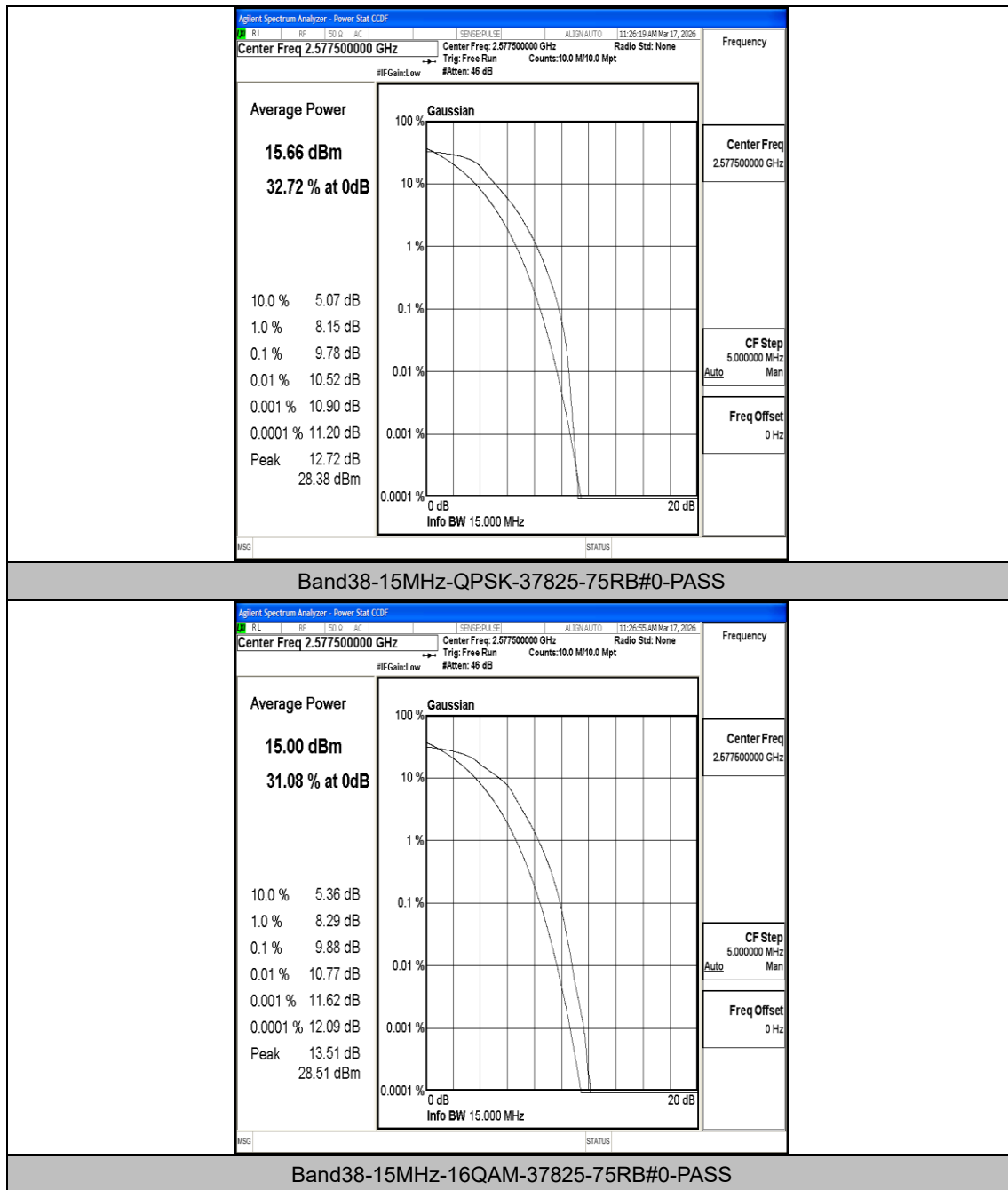


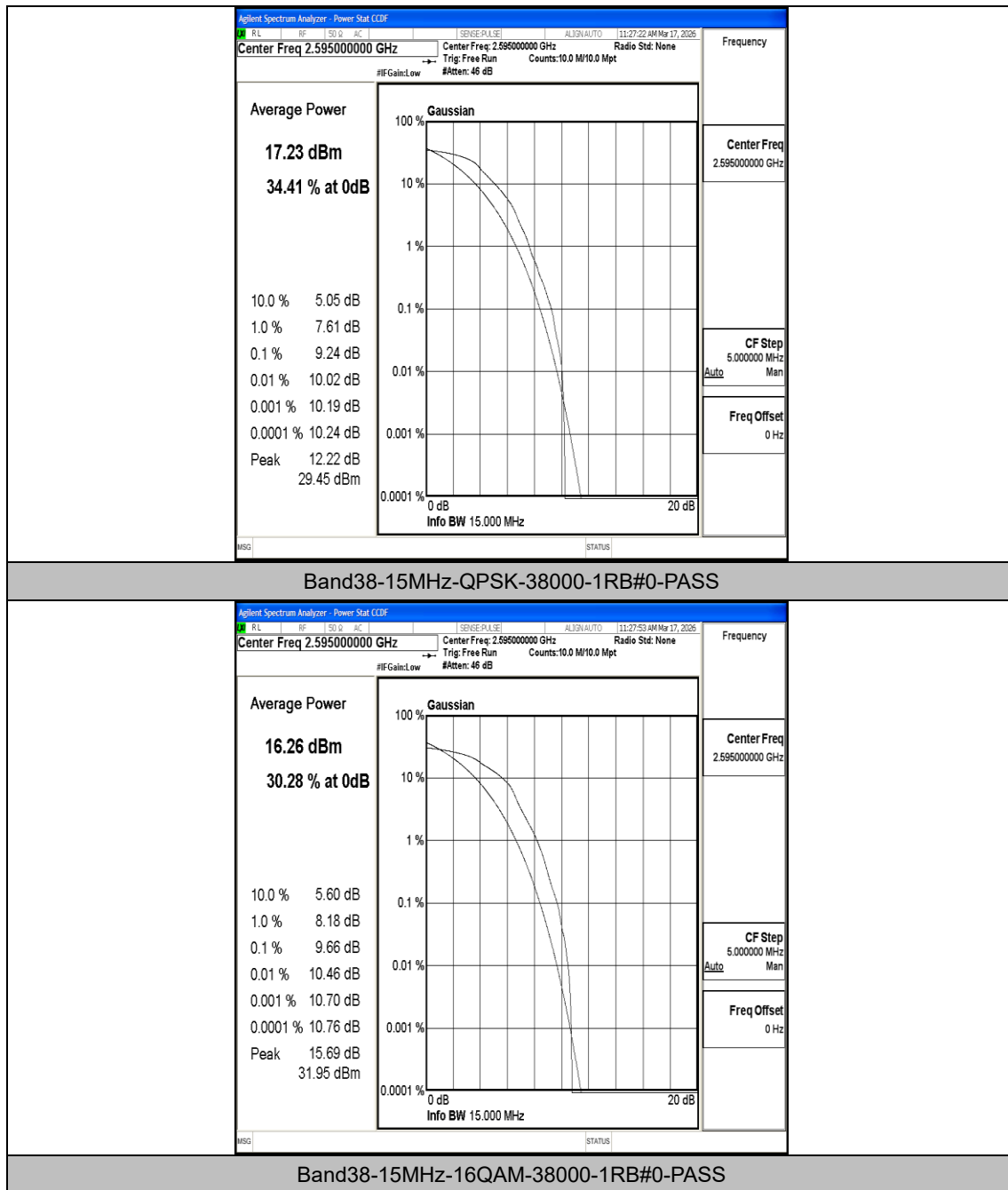


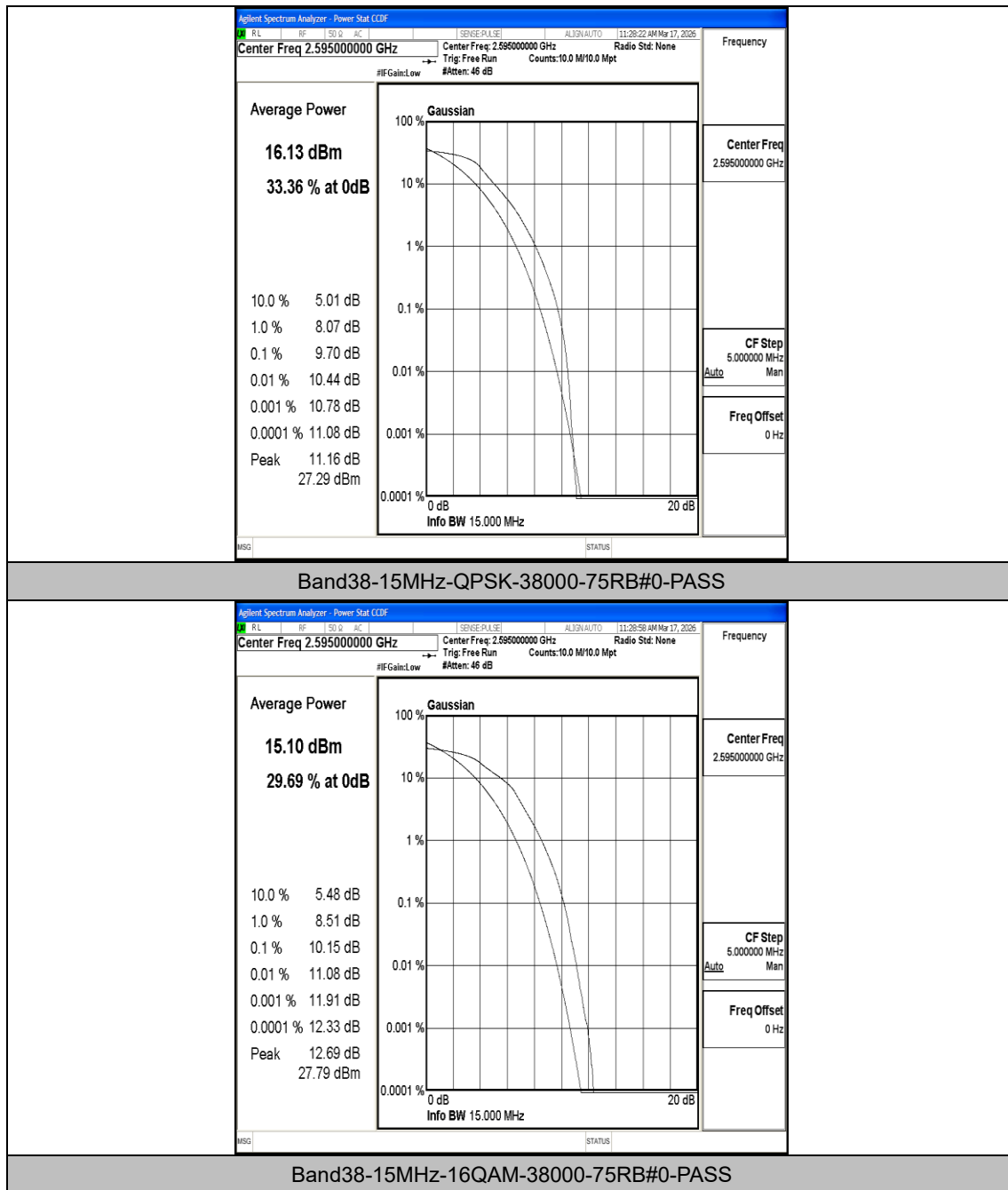


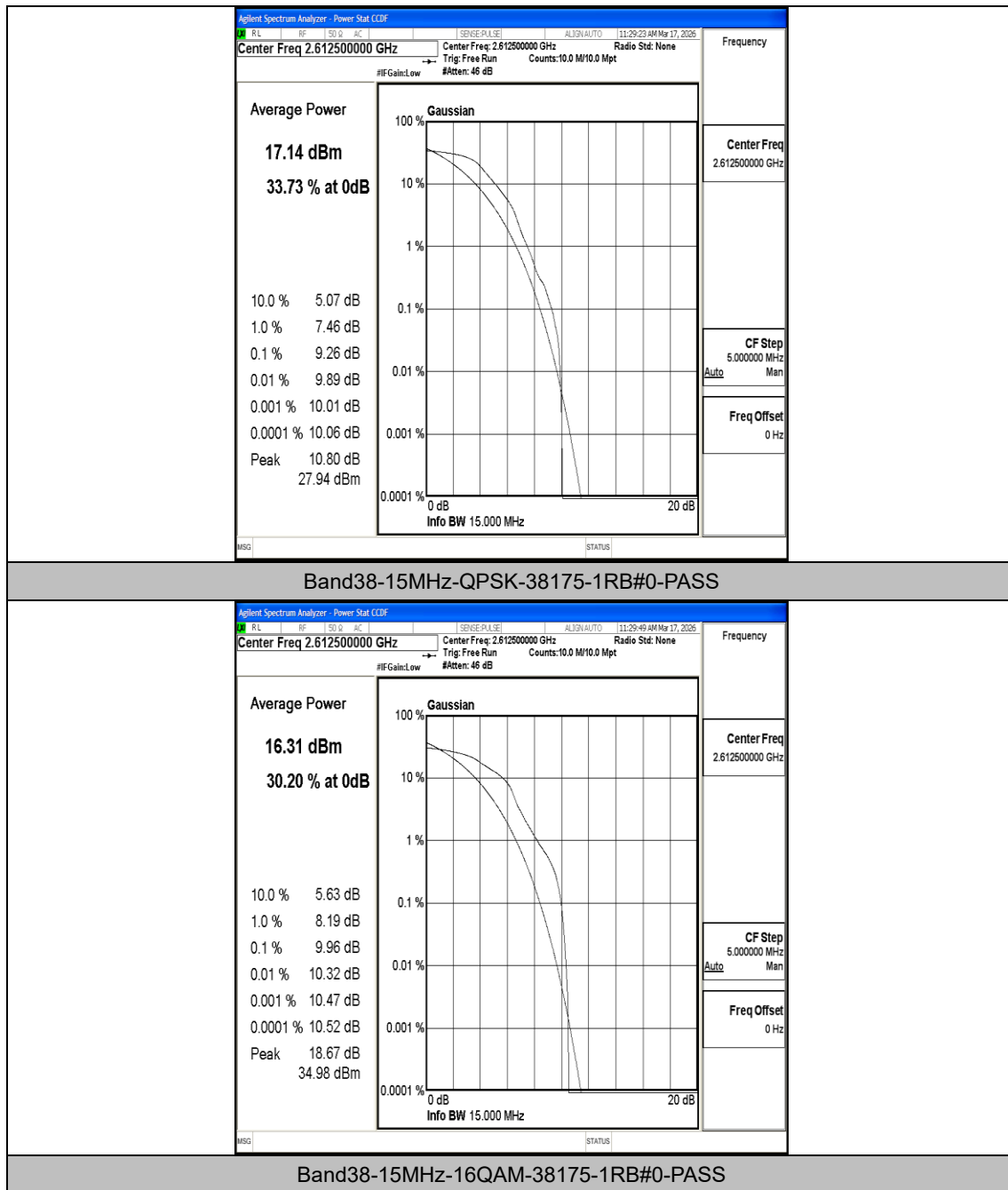


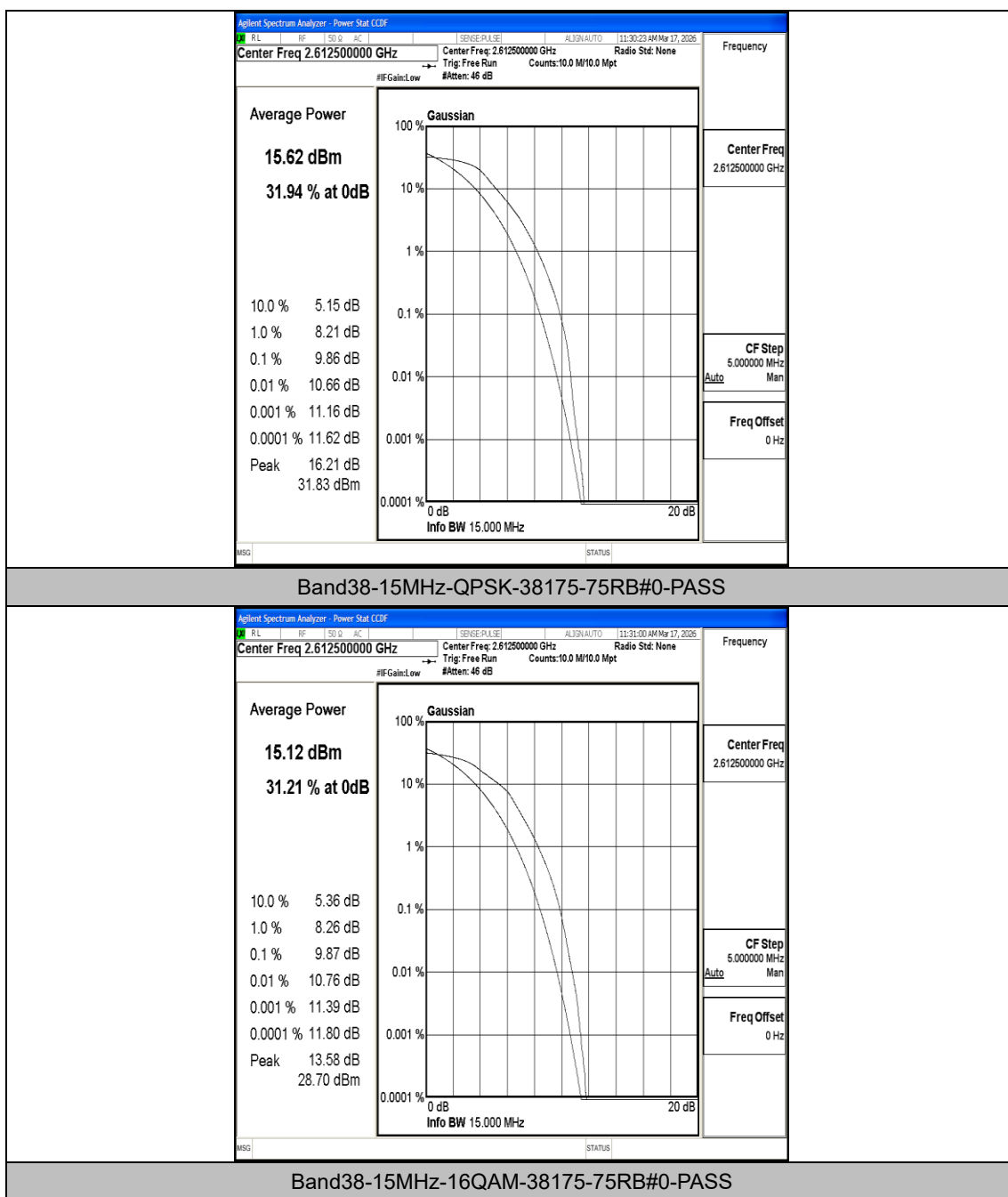


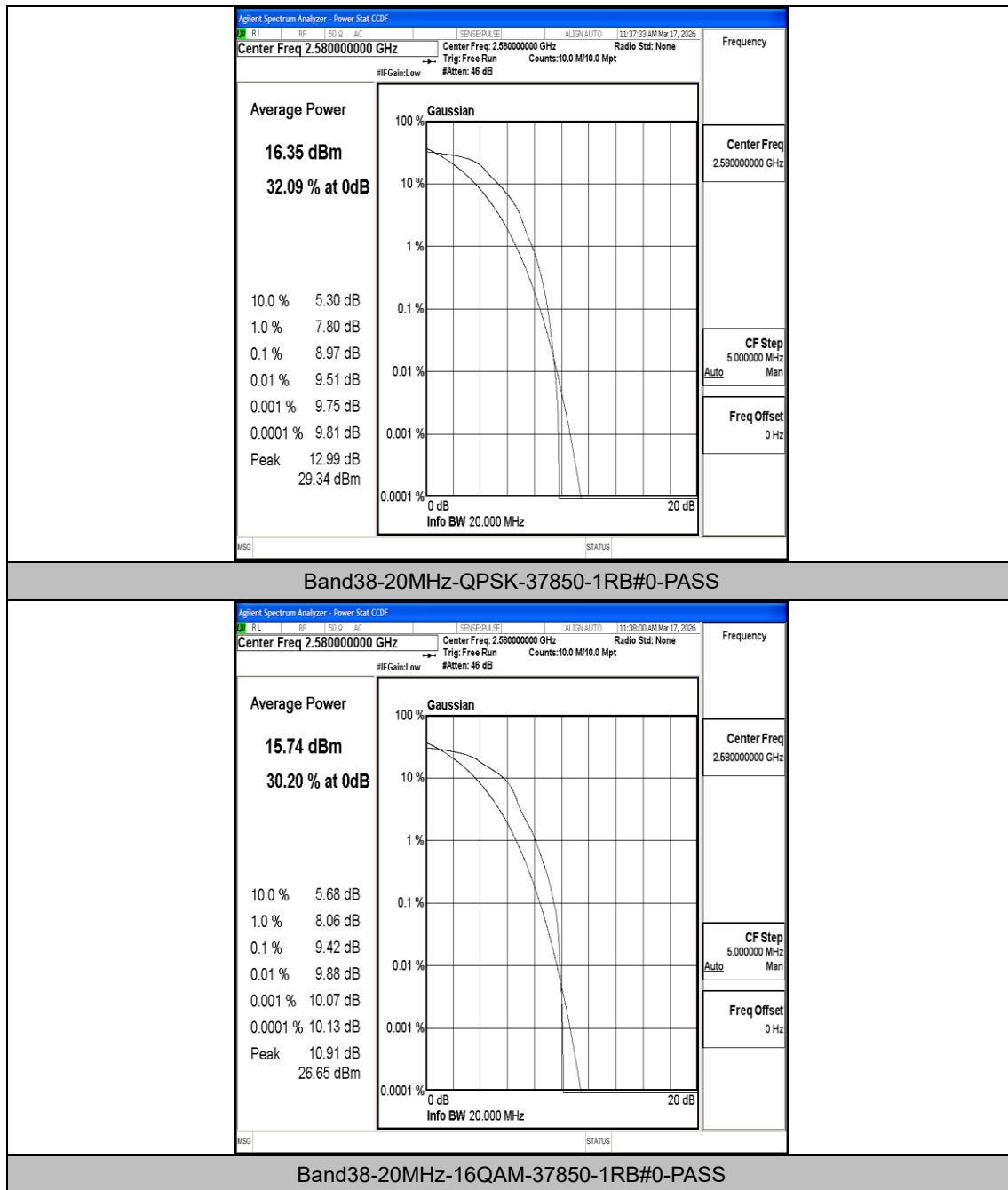


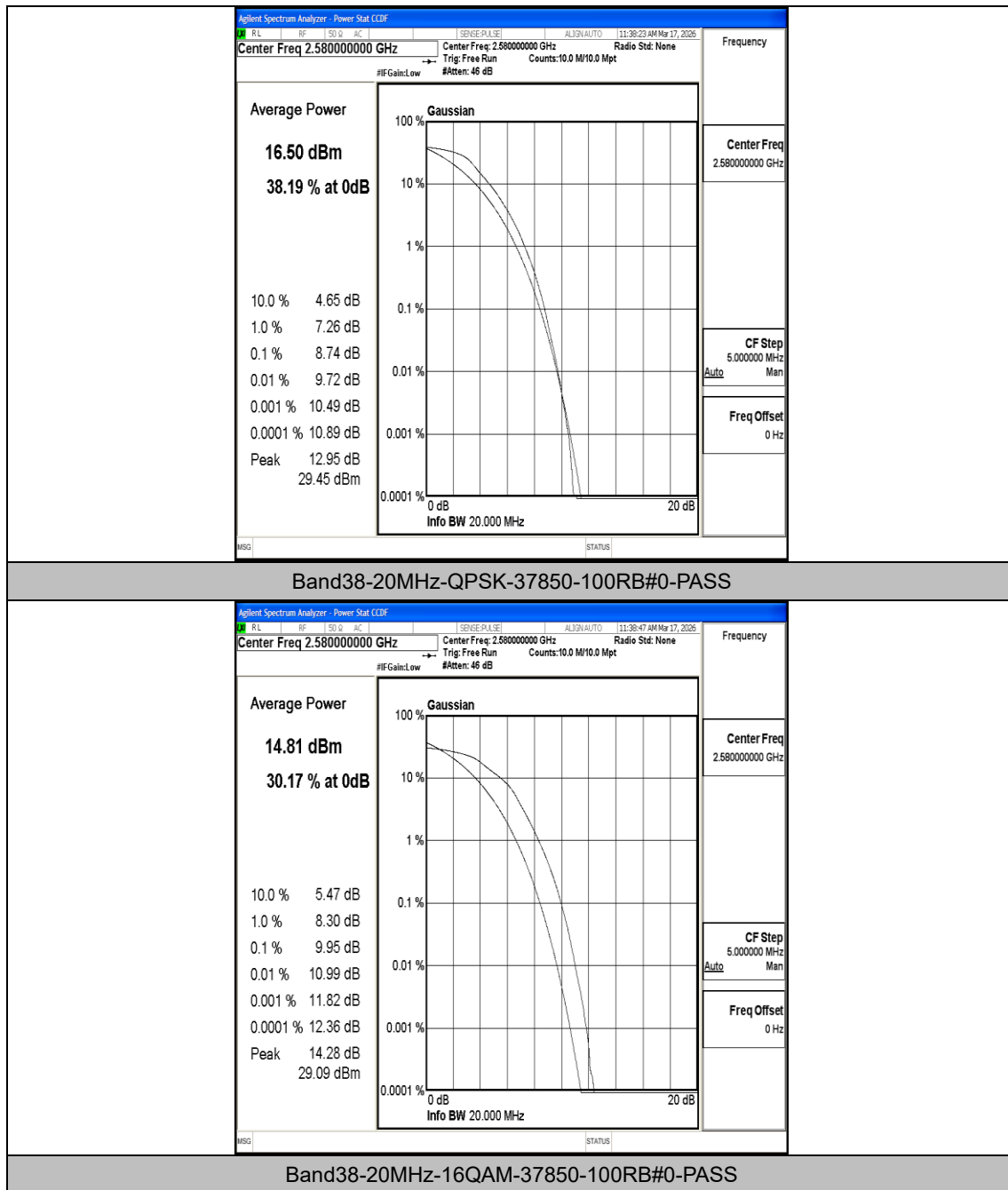


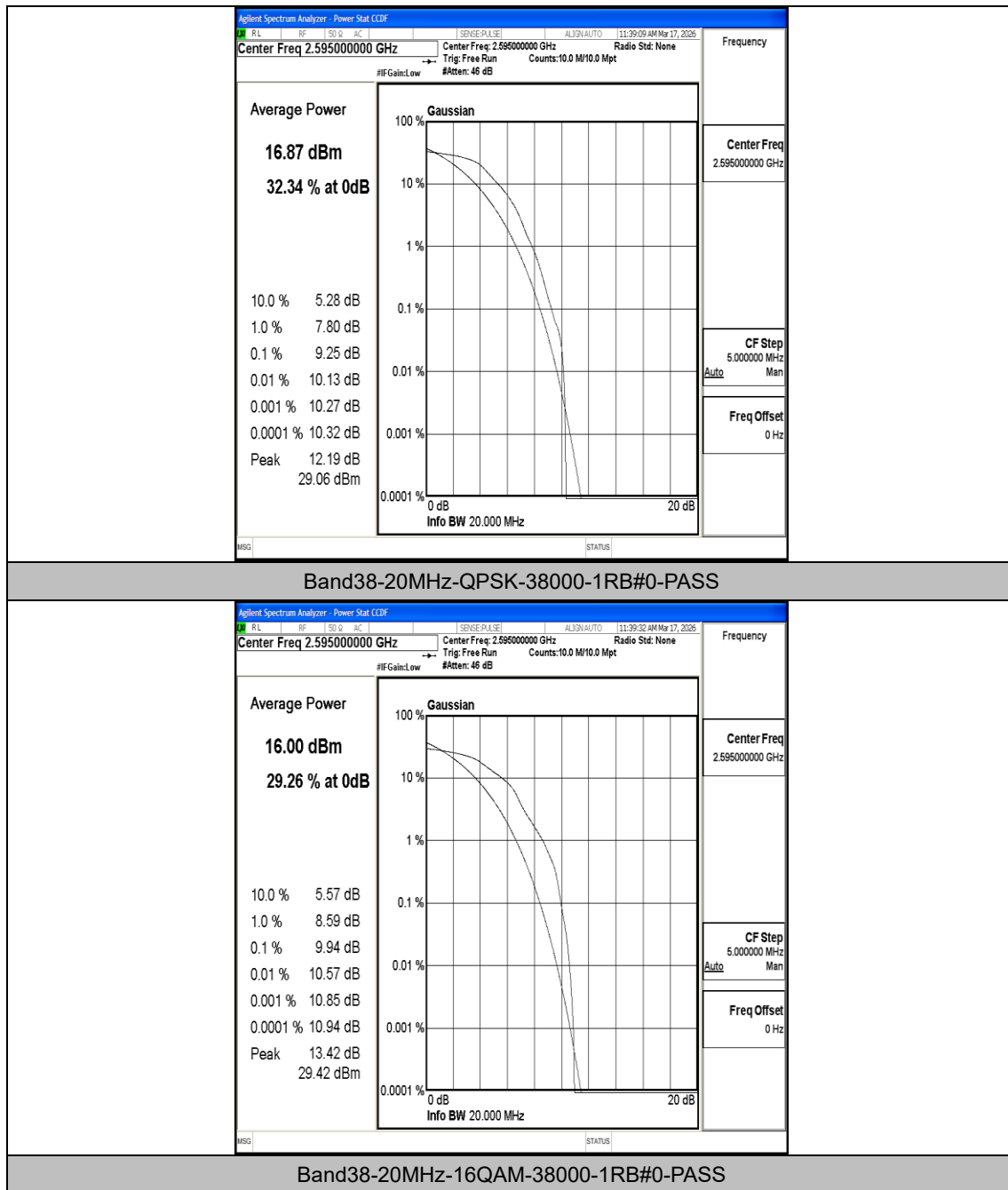


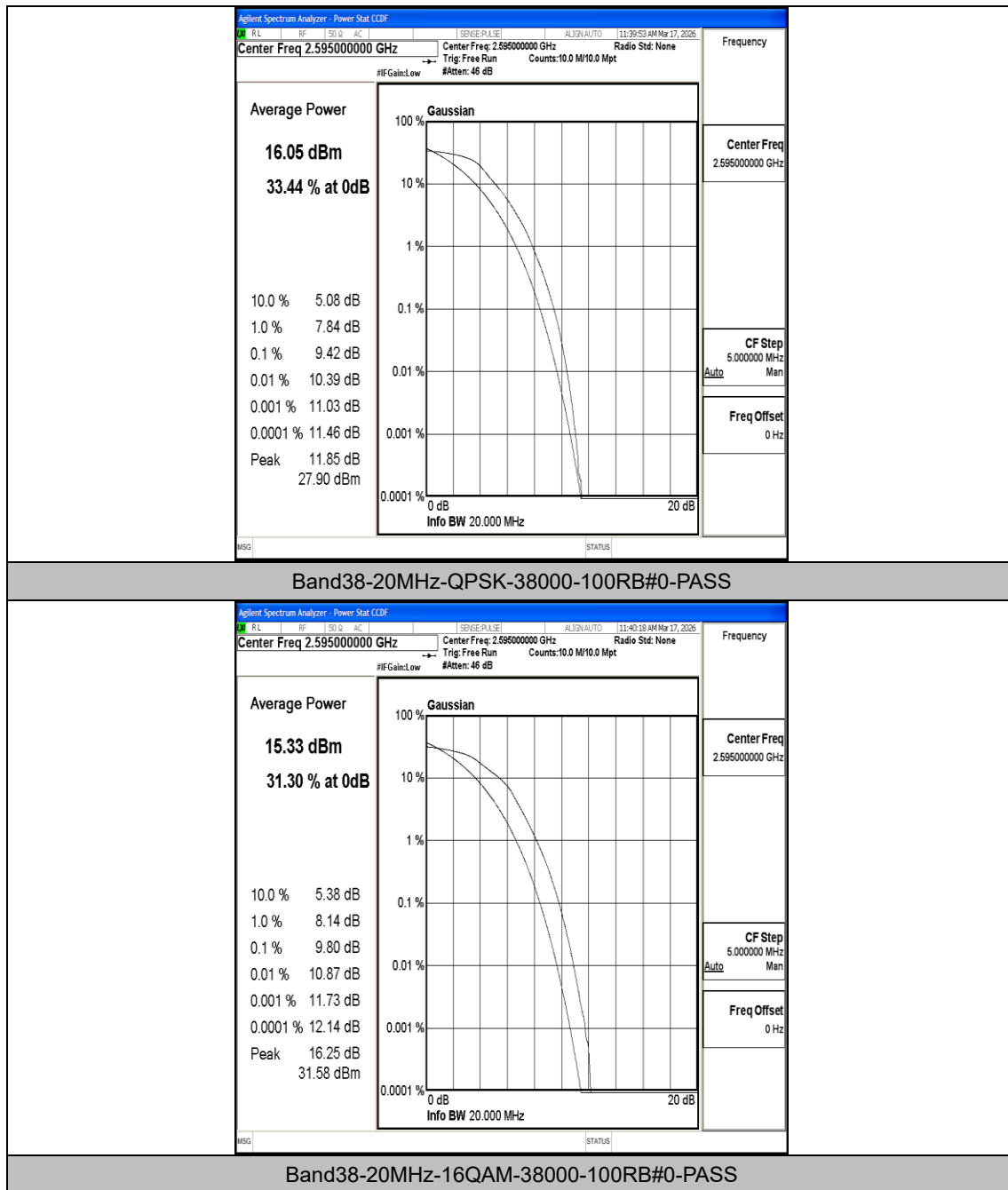


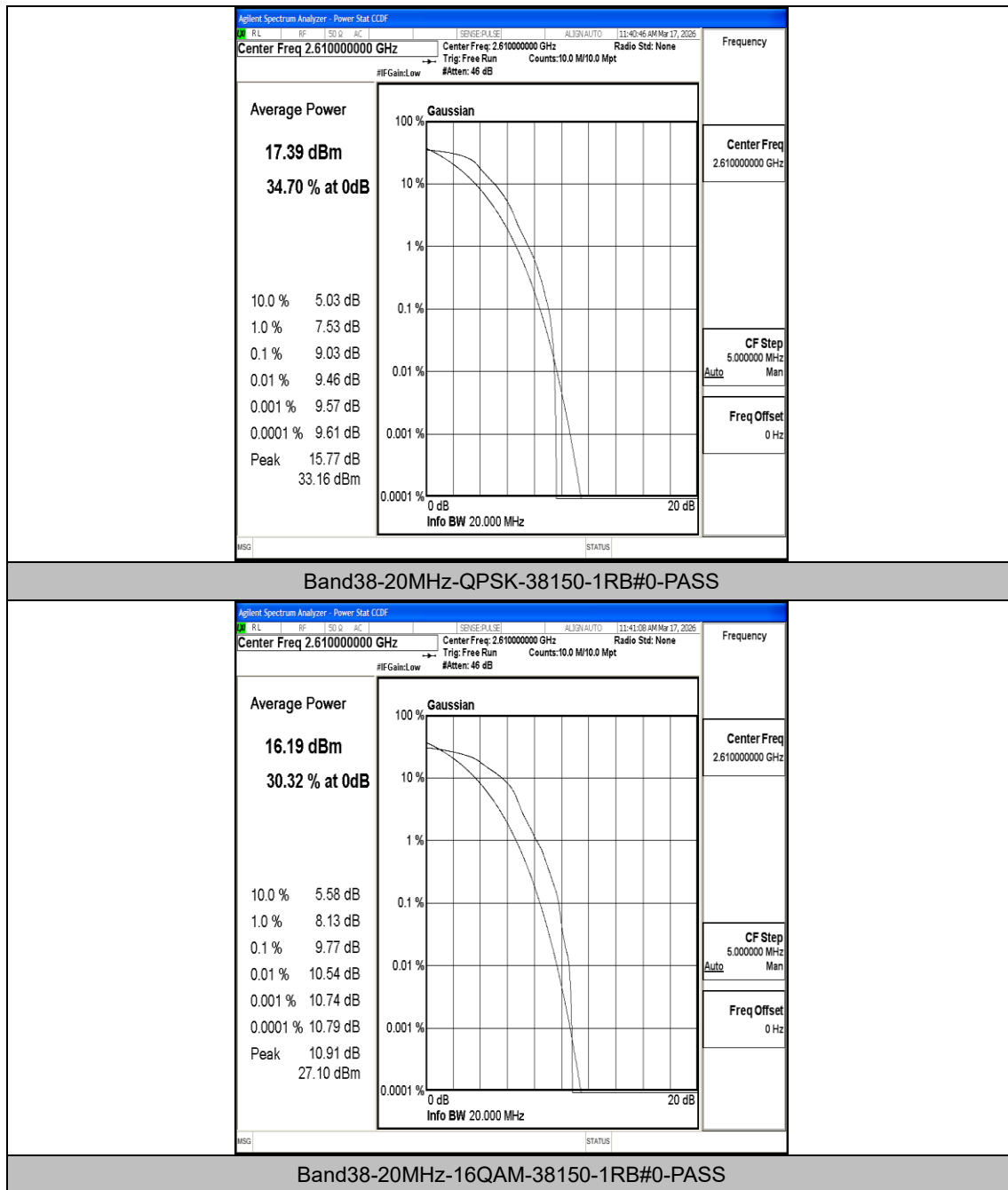


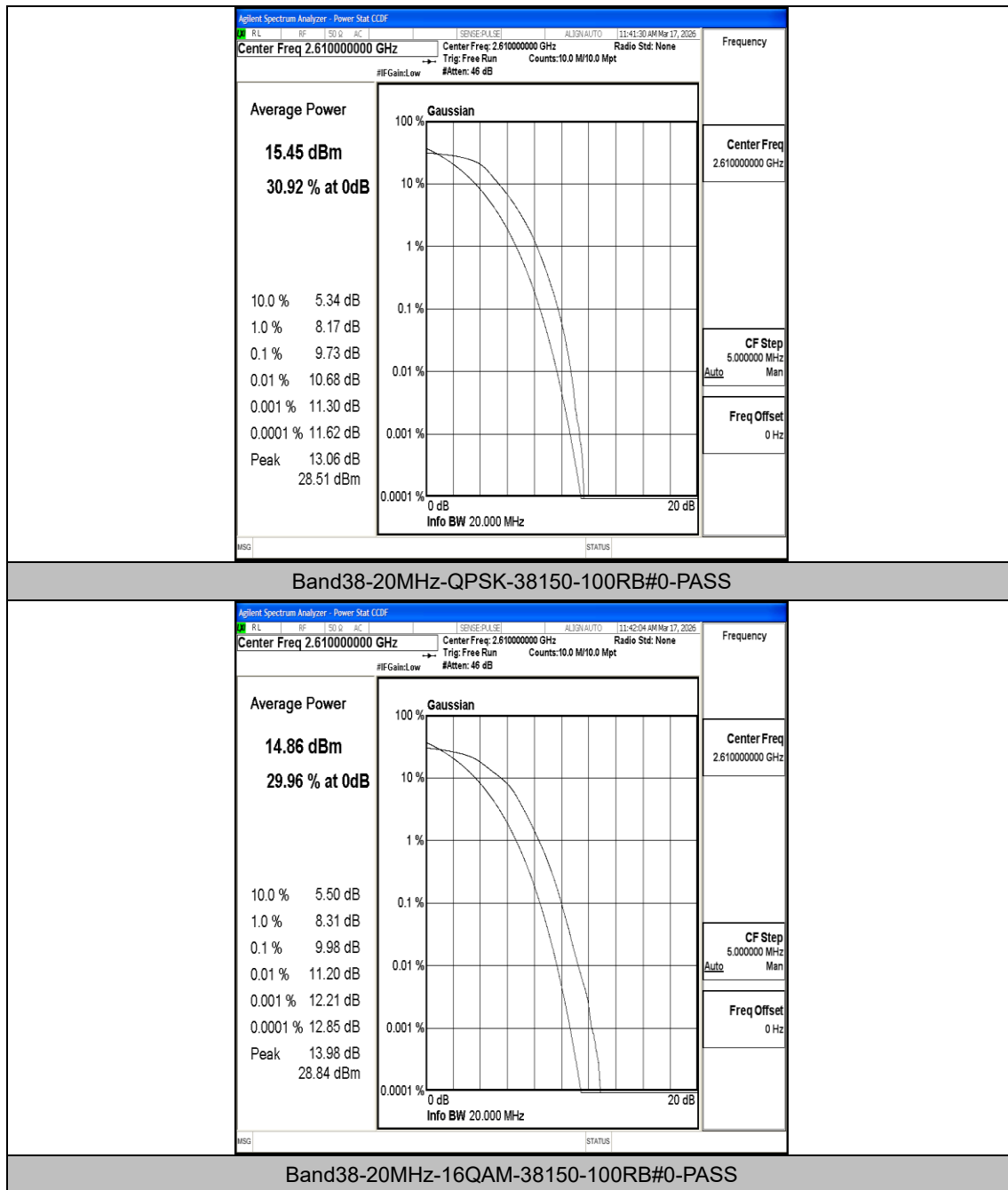










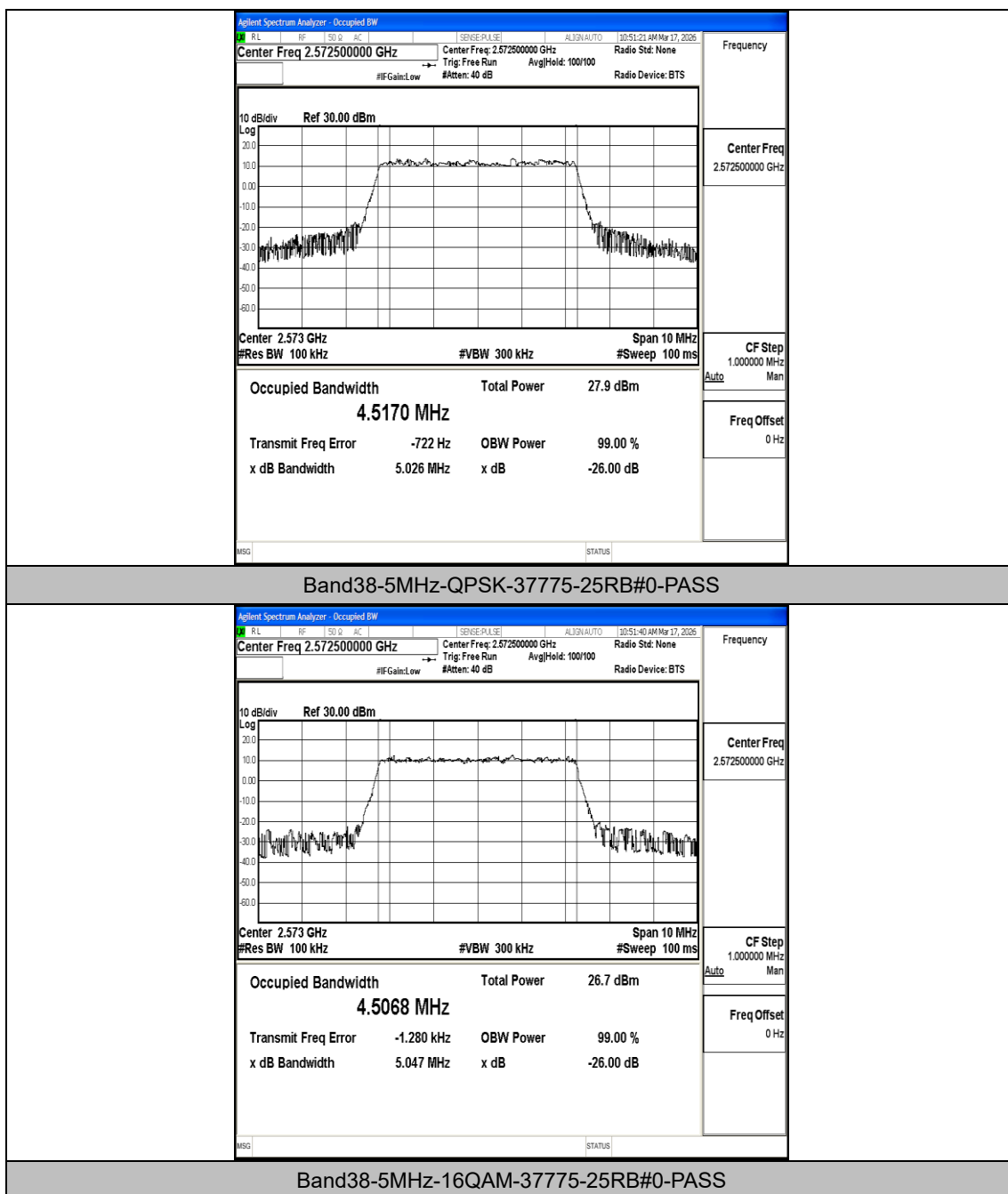


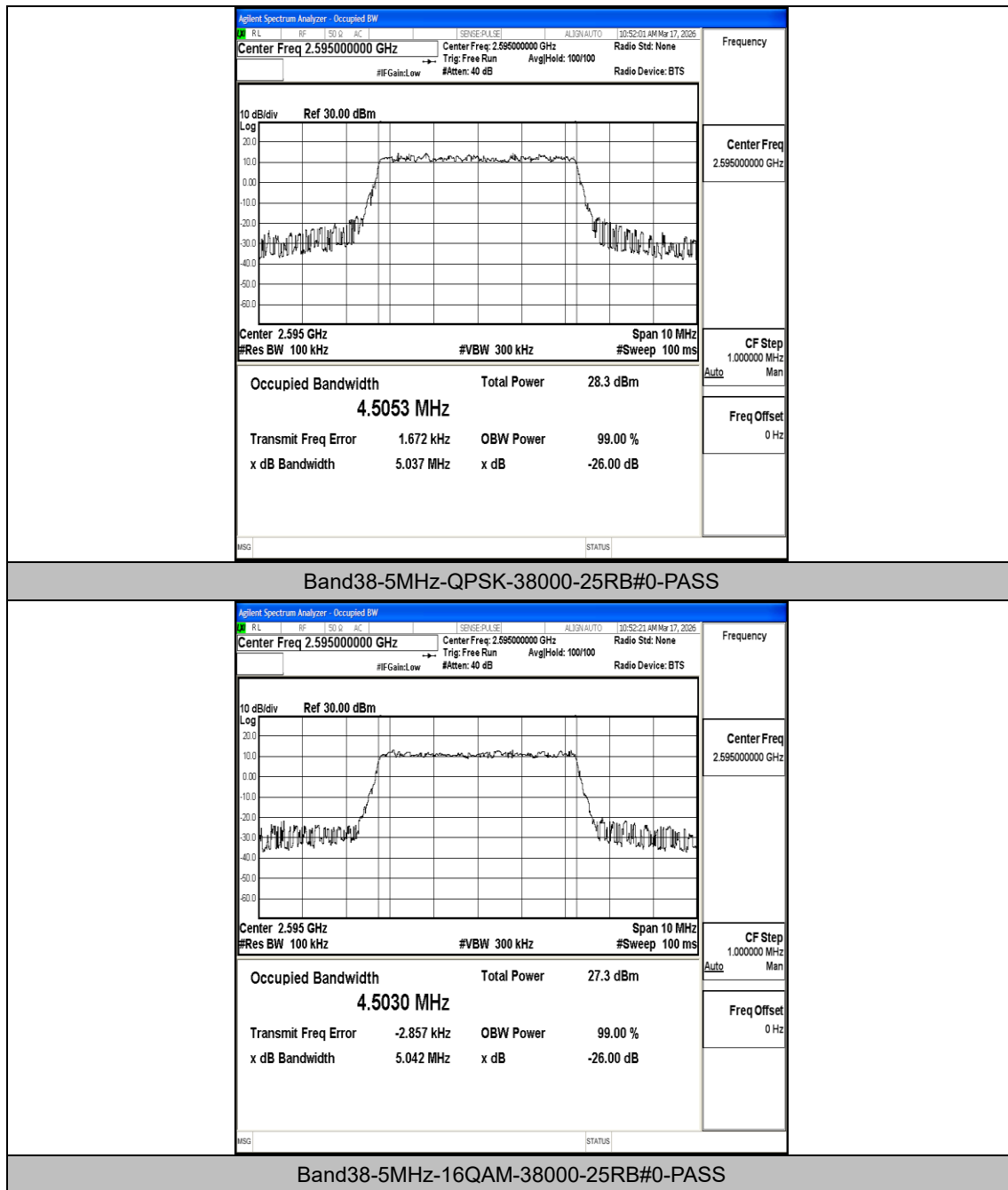
B 26dB Bandwidth and Occupied Bandwidth

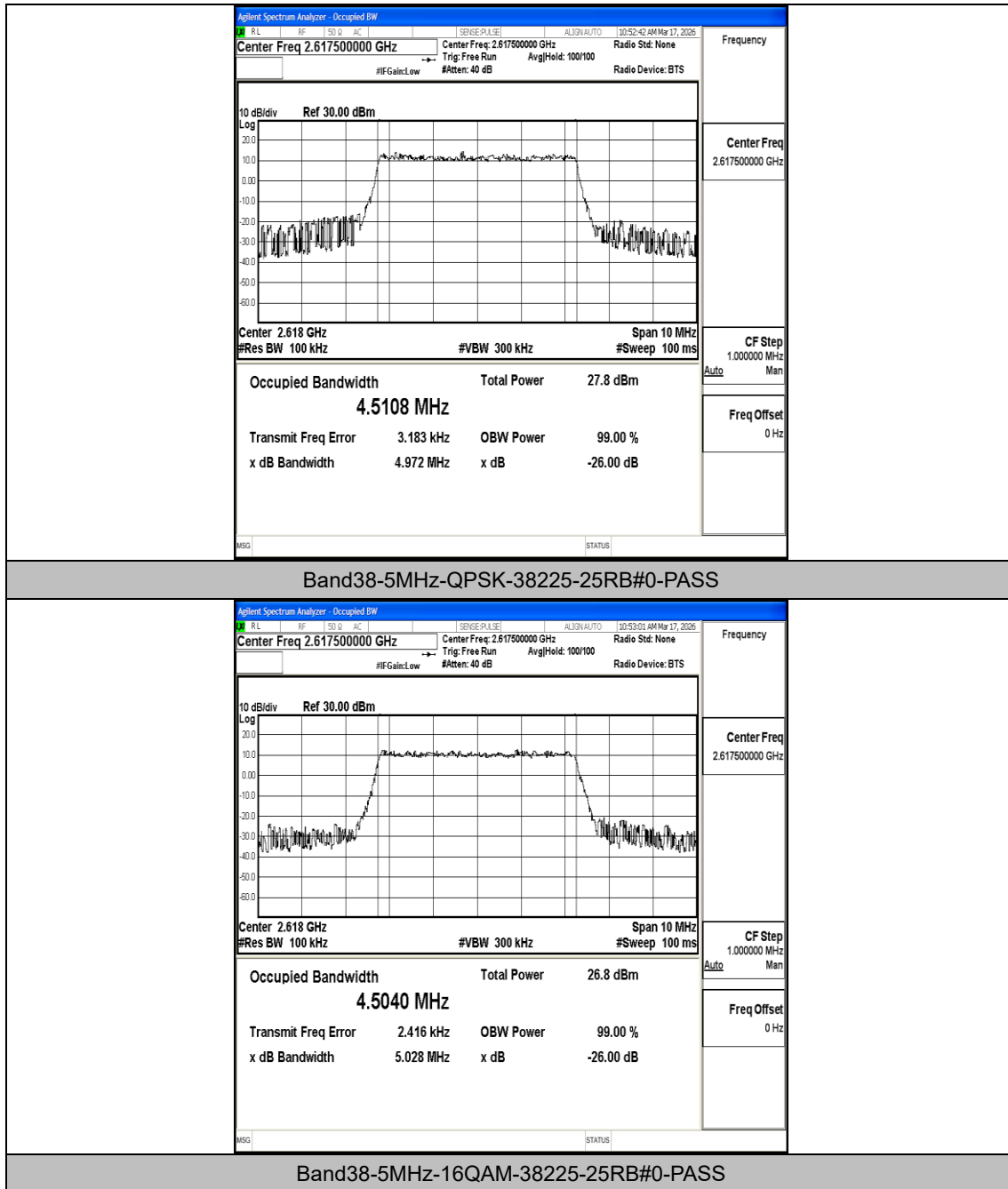
Test Result

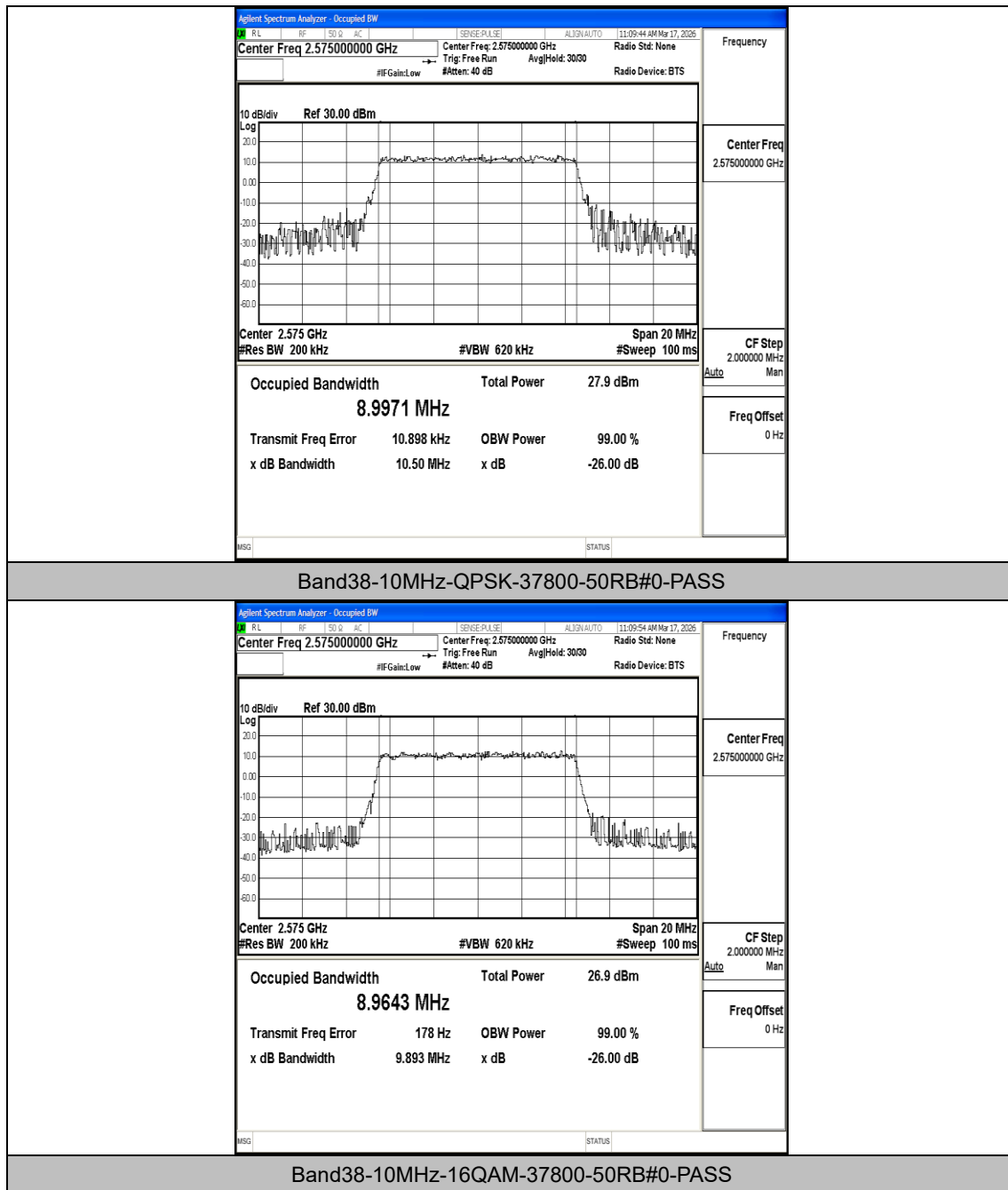
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5170	5.026	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5068	5.047	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5053	5.037	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5030	5.042	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.5108	4.972	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.5040	5.028	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9971	10.50	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9643	9.893	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9984	9.726	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9945	9.818	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0130	9.748	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9836	10.25	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.493	15.11	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.487	14.82	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.494	15.57	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.449	14.78	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.447	14.74	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.503	15.18	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.960	20.18	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.915	19.49	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.943	19.48	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.930	19.44	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.899	19.50	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.920	19.50	PASS

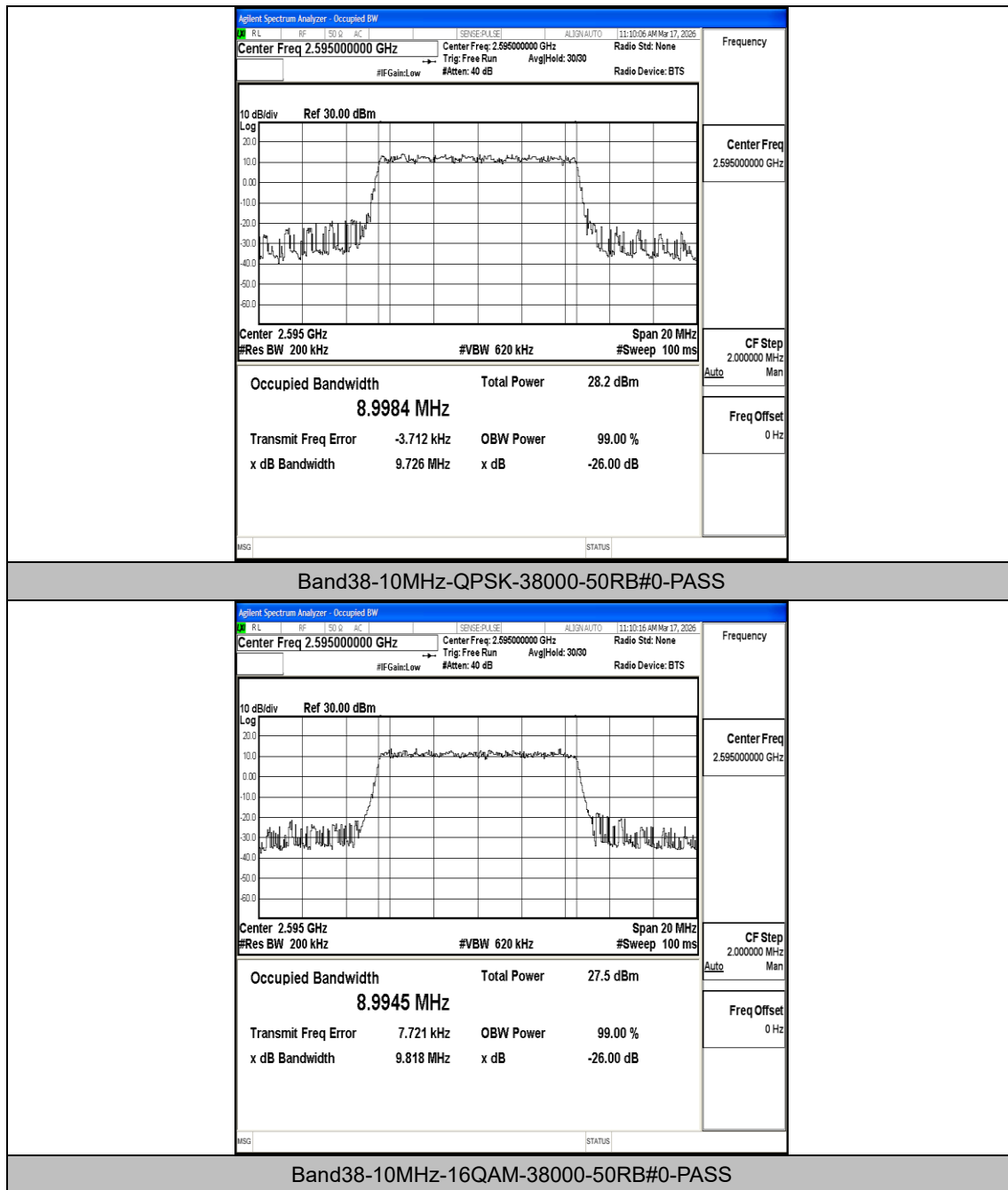
Test Graphs

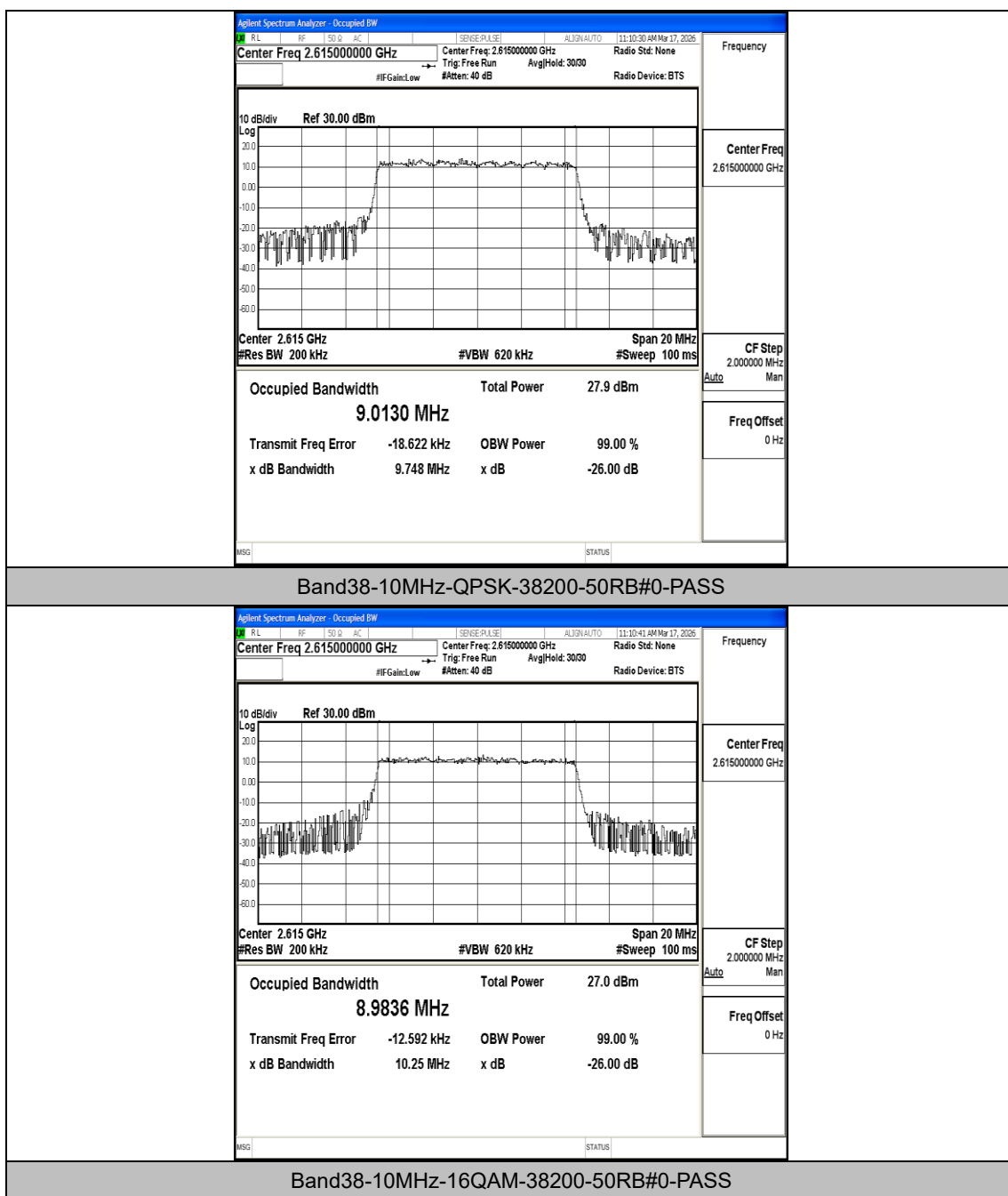


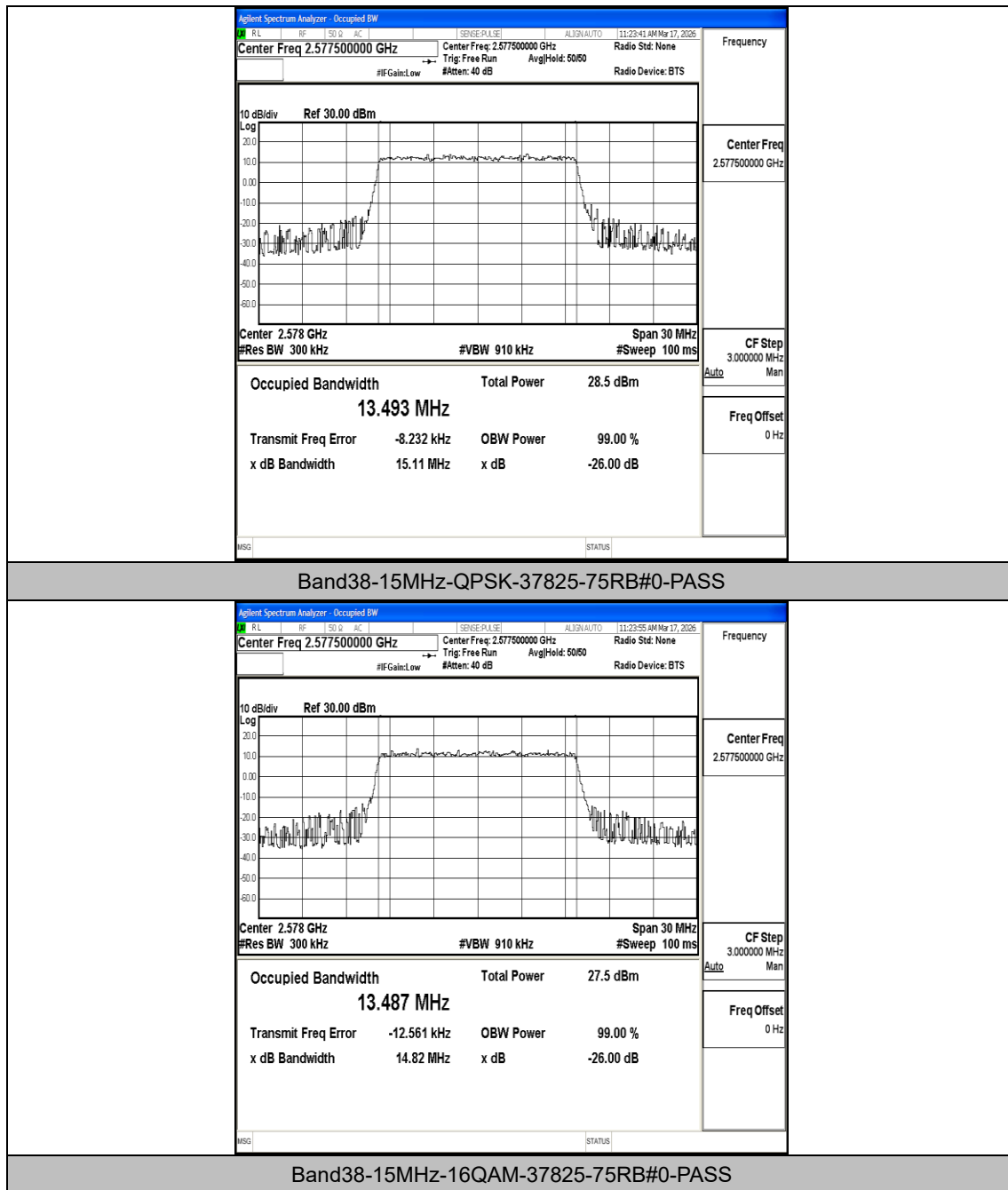


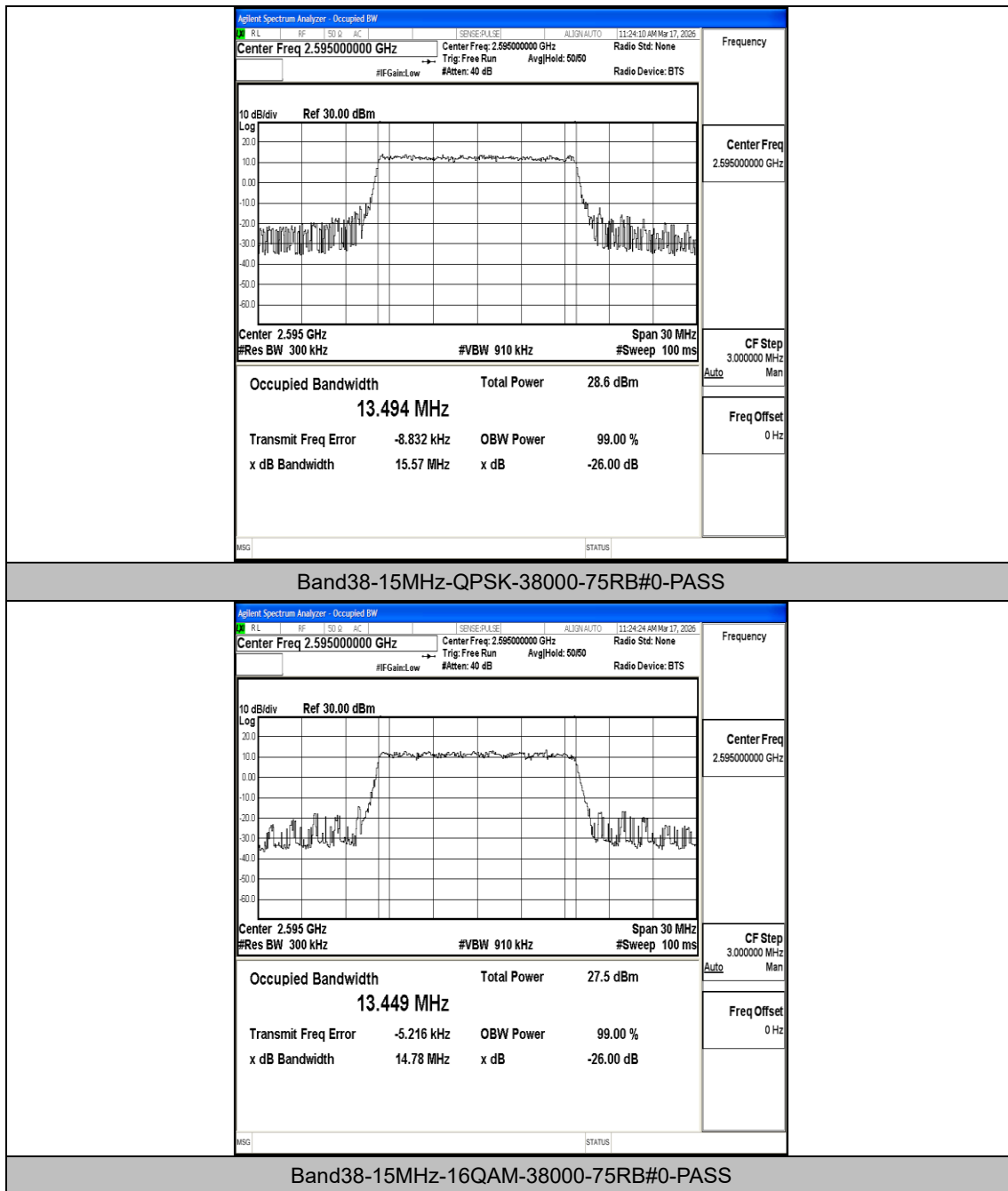


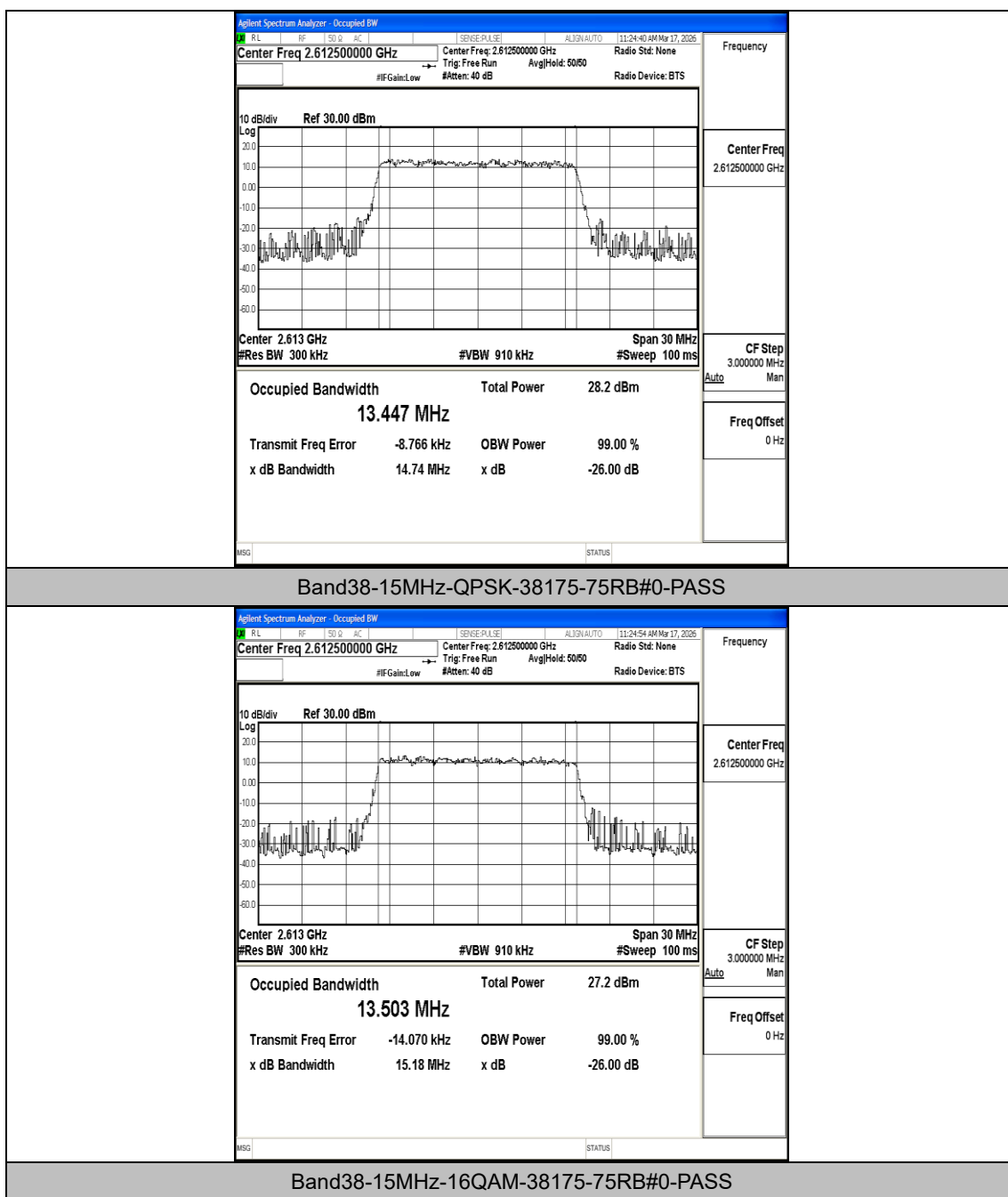


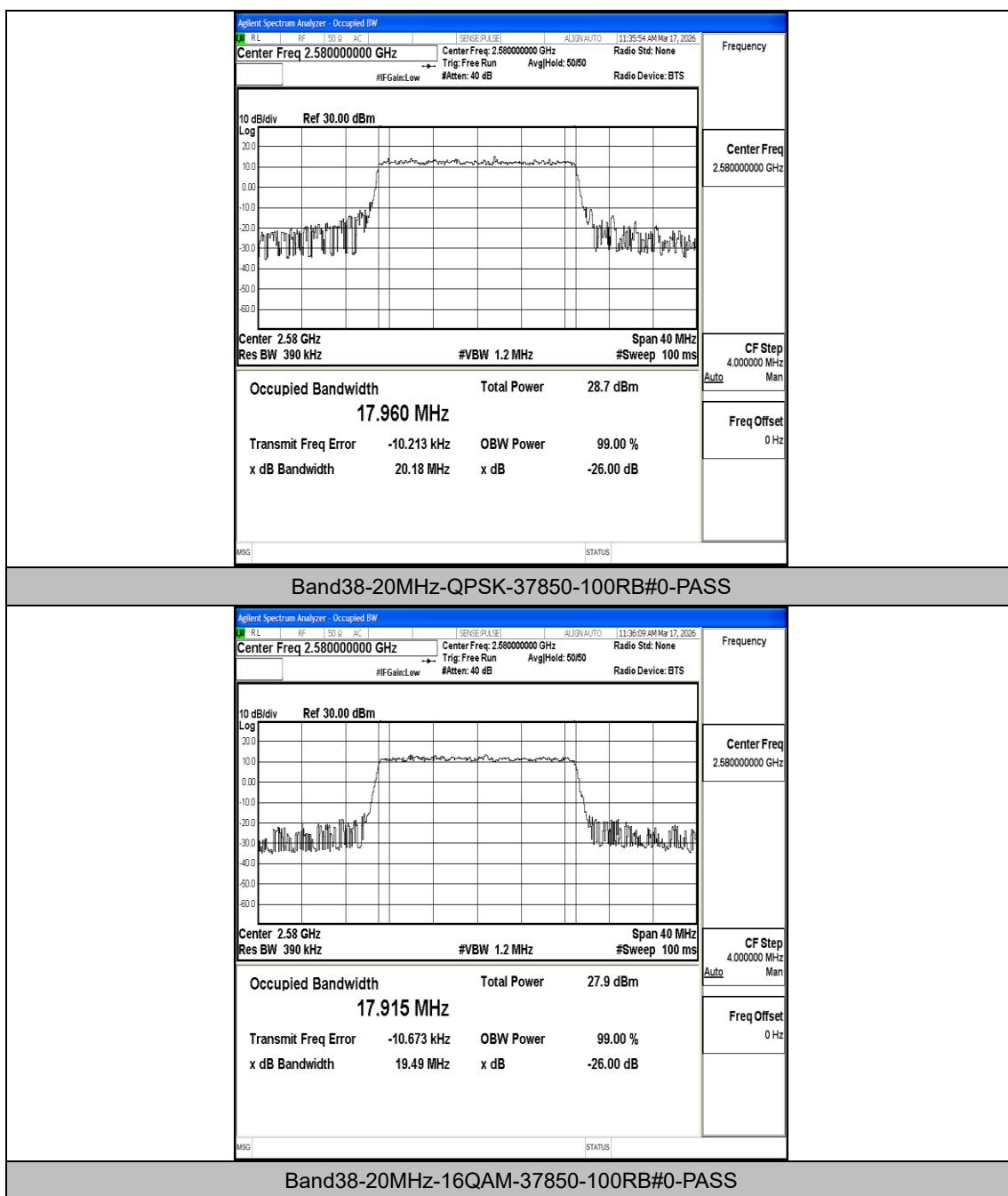


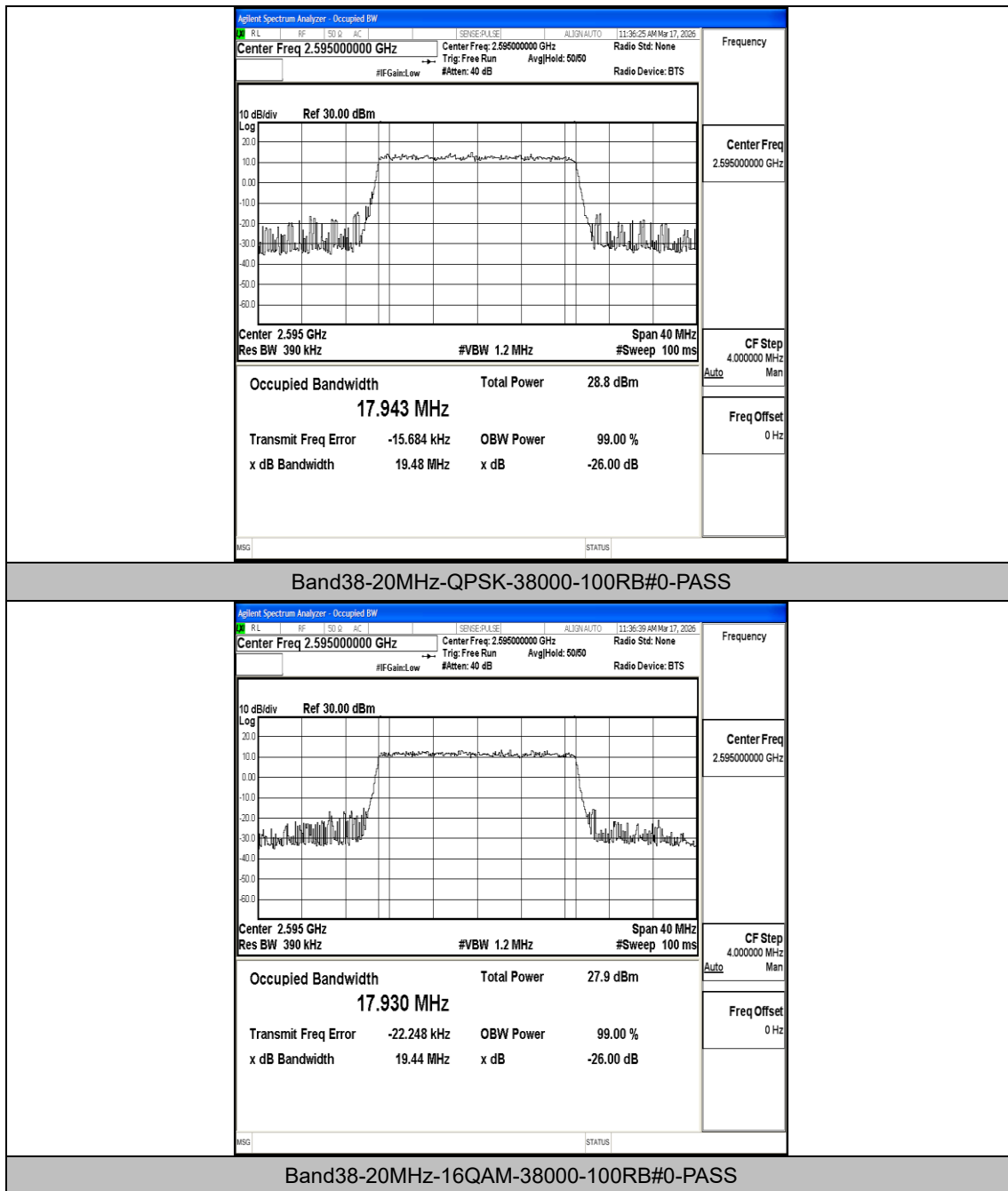


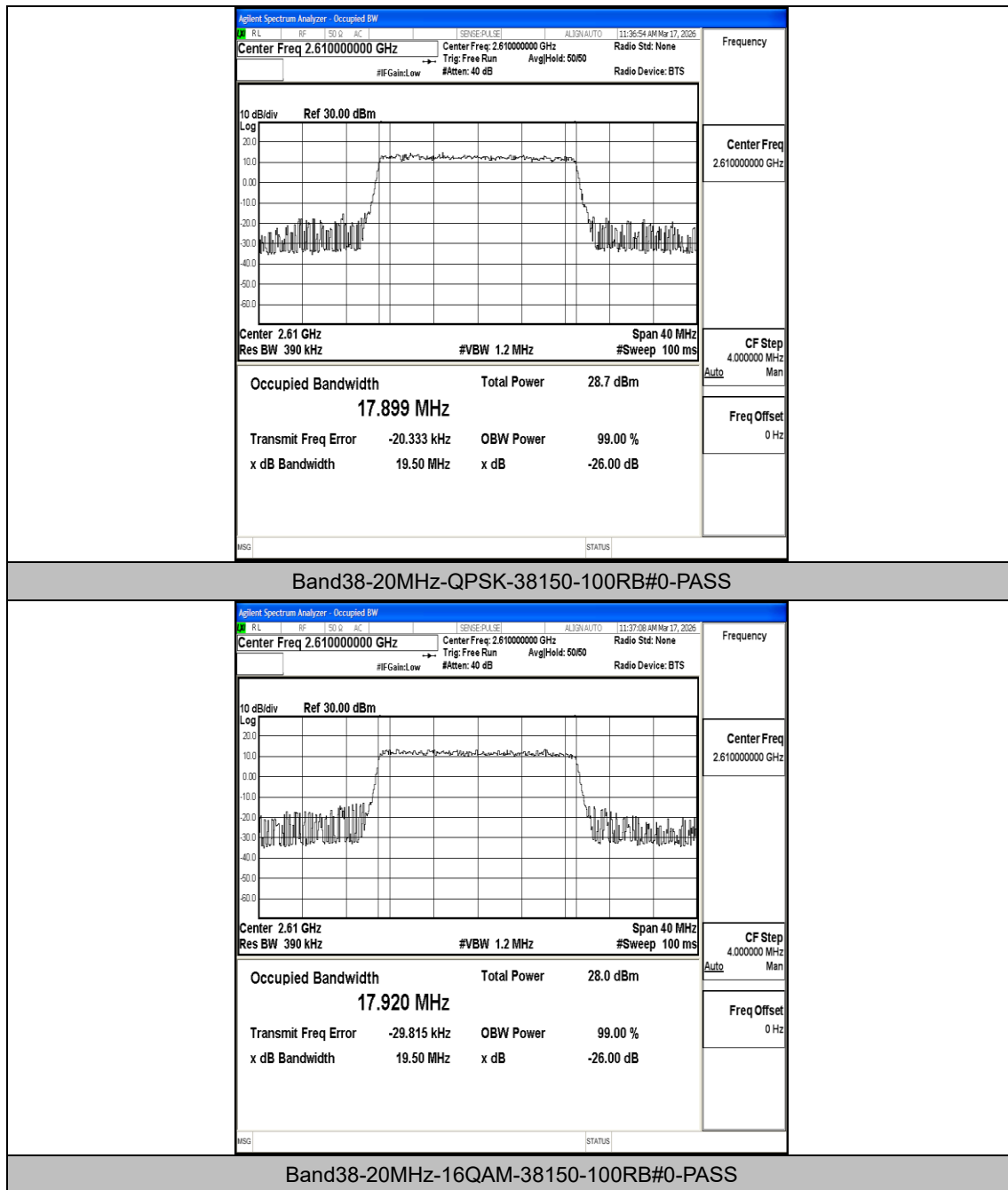










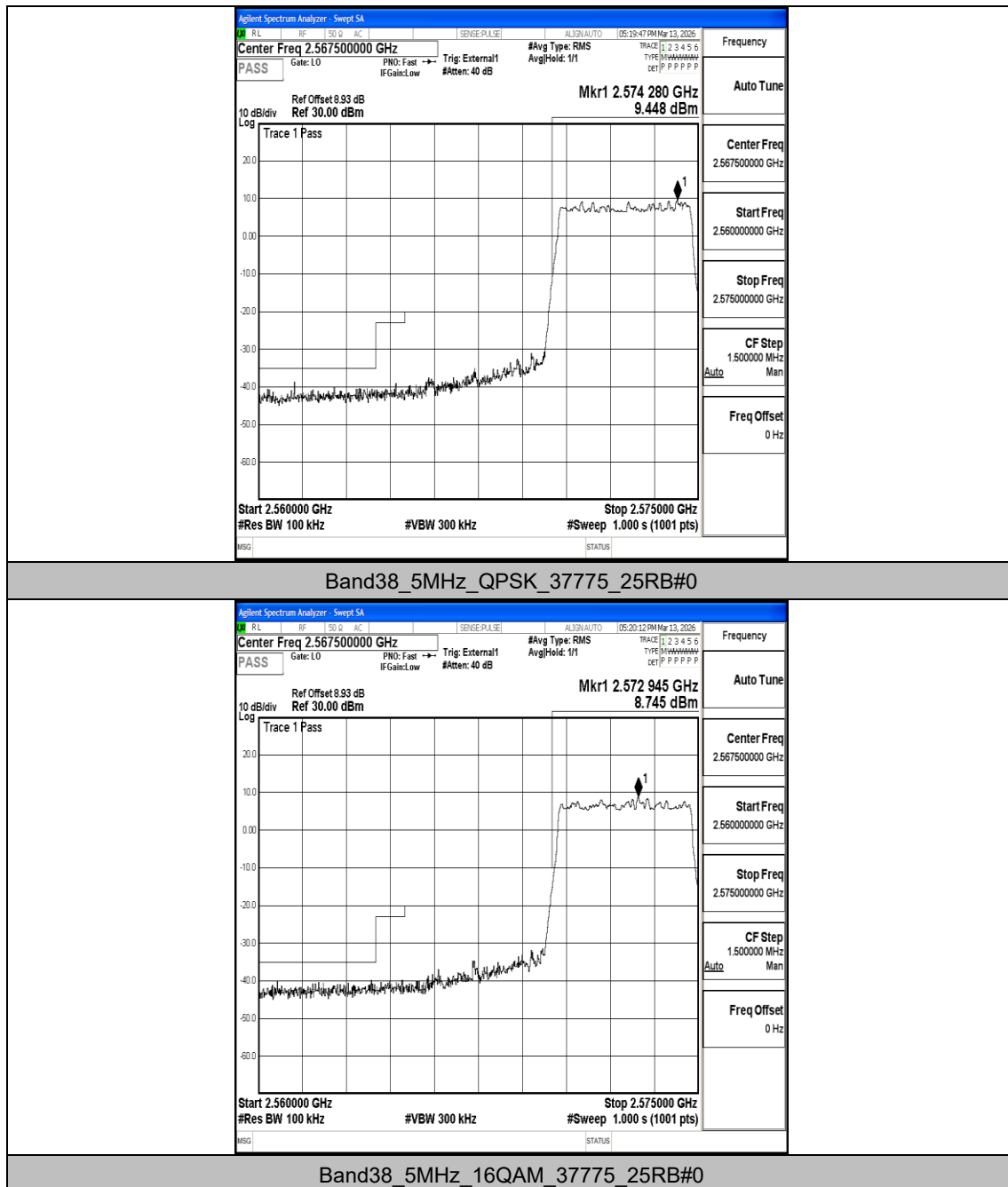


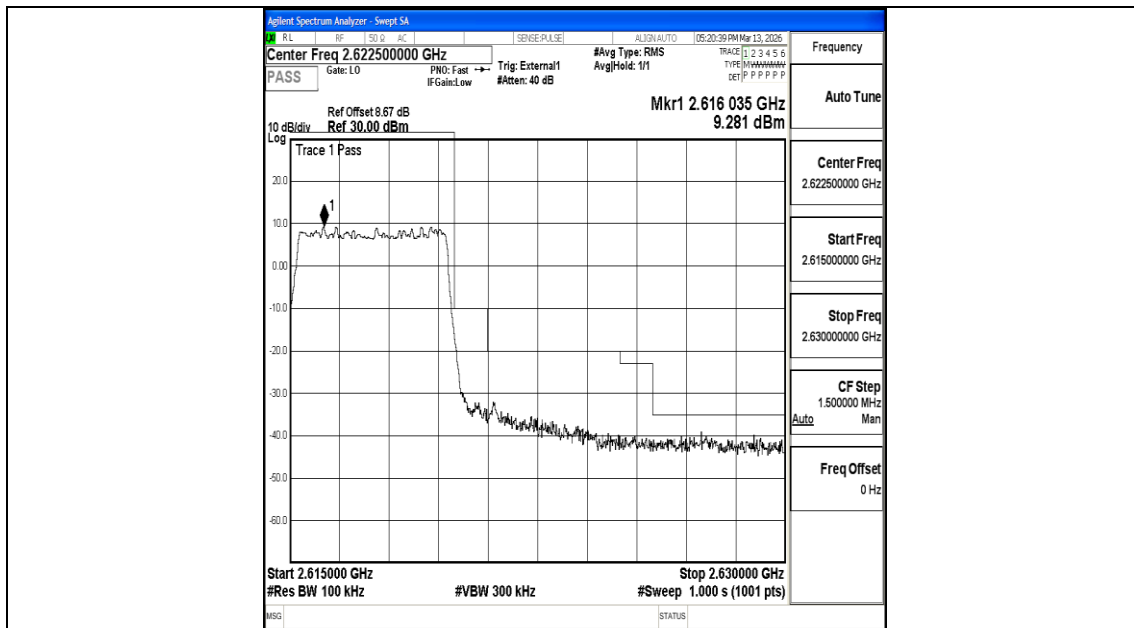
C Band Edge

Test Result

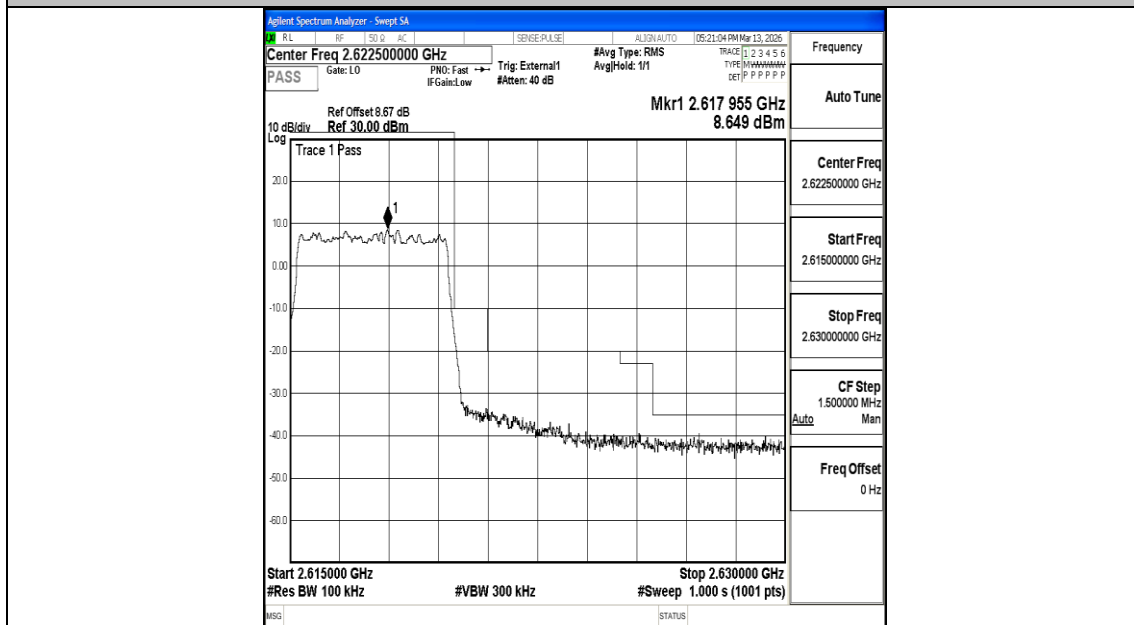
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	2569.99	-13.11	PASS
Band38	5MHz	16QAM	37775	25RB#0	2563.86	-39.81	PASS
Band38	5MHz	QPSK	38225	25RB#0	2627.45	-39.15	PASS
Band38	5MHz	16QAM	38225	25RB#0	2627.39	-39.45	PASS
Band38	10MHz	QPSK	37800	50RB#0	2558.55	-36.83	PASS
Band38	10MHz	16QAM	37800	50RB#0	2556.15	-37.16	PASS
Band38	10MHz	QPSK	38200	50RB#0	2631.63	-37.25	PASS
Band38	10MHz	16QAM	38200	50RB#0	2633.63	-37.01	PASS
Band38	15MHz	QPSK	37825	75RB#0	2554.48	-34.61	PASS
Band38	15MHz	16QAM	37825	75RB#0	2553.01	-35.72	PASS
Band38	15MHz	QPSK	38175	75RB#0	2638.71	-34.51	PASS
Band38	15MHz	16QAM	38175	75RB#0	2636.33	-35.18	PASS
Band38	20MHz	QPSK	37850	100RB#0	2546.44	-32.86	PASS
Band38	20MHz	16QAM	37850	100RB#0	2546.53	-34.12	PASS
Band38	20MHz	QPSK	38150	100RB#0	2640.10	-33.62	PASS
Band38	20MHz	16QAM	38150	100RB#0	2642.48	-33.91	PASS

Test Graphs

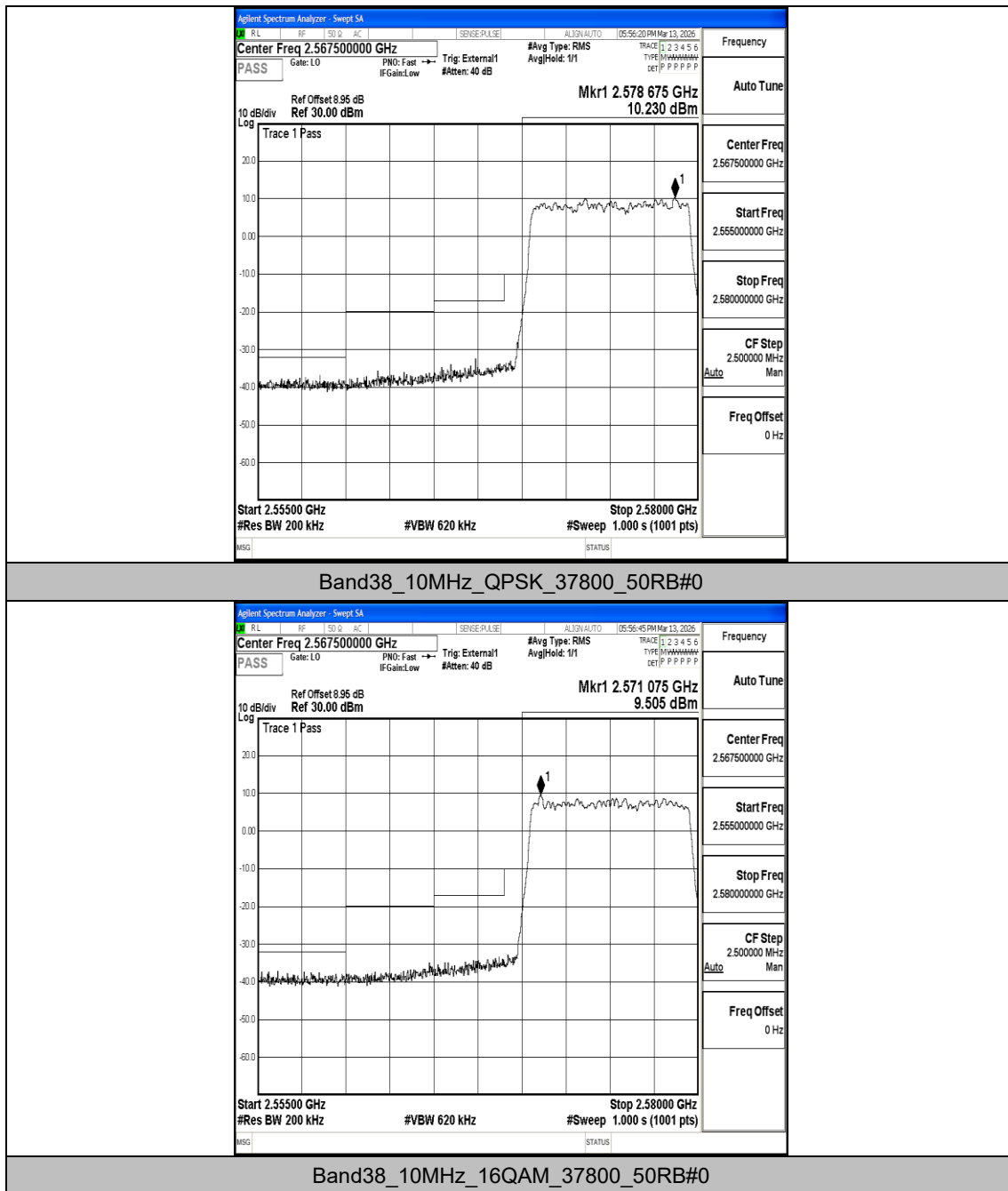


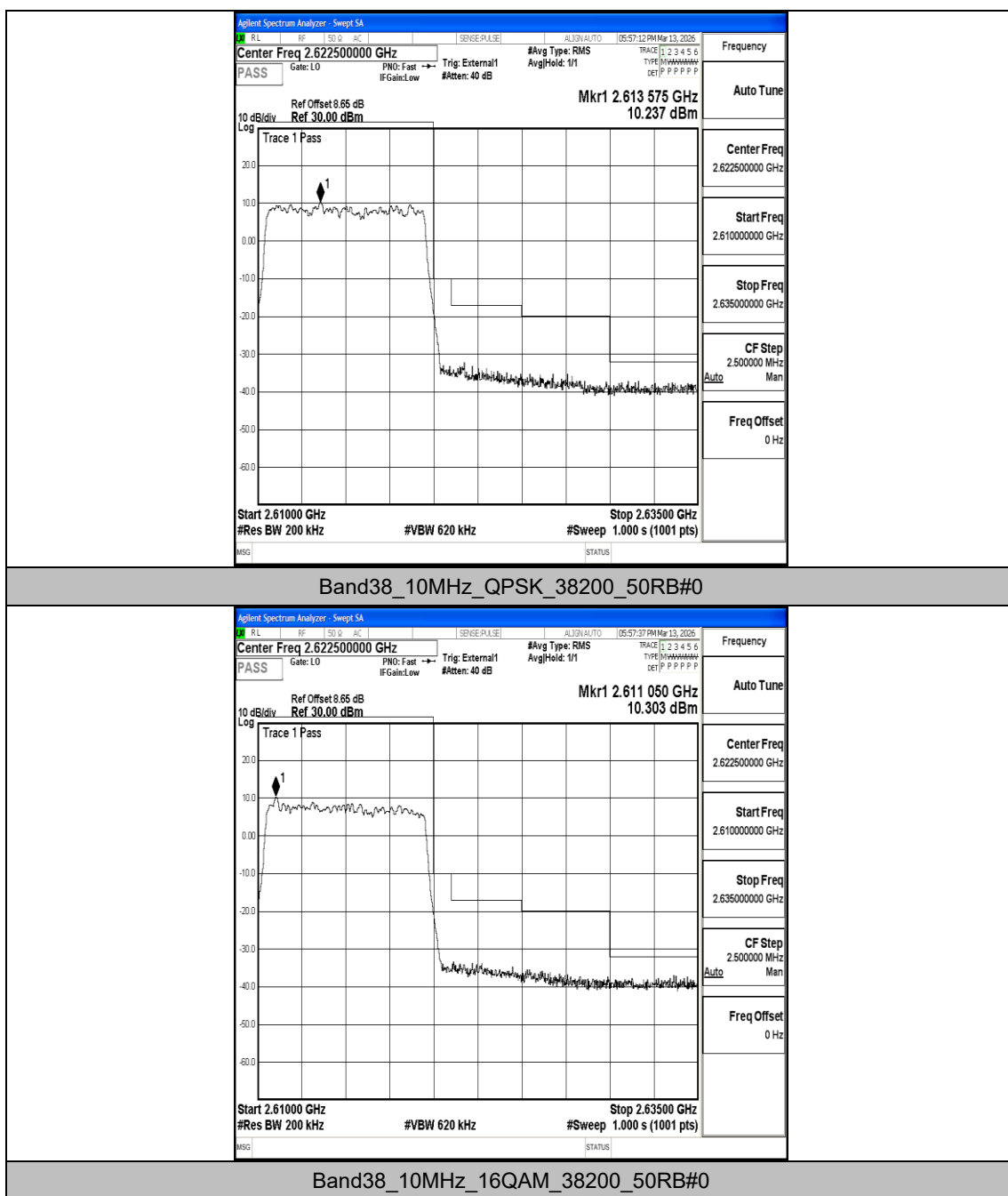


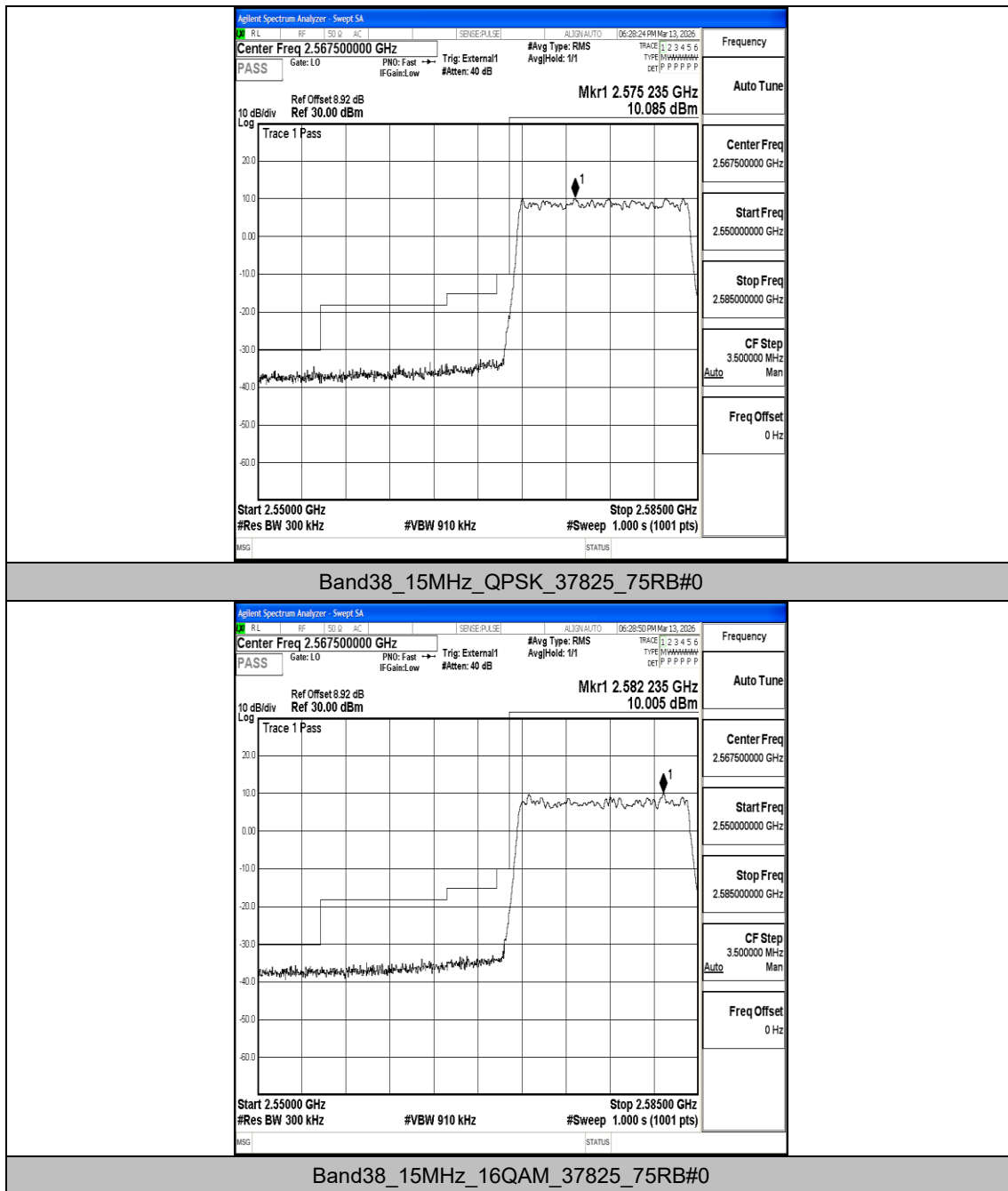
Band38_5MHz_QPSK_38225_25RB#0

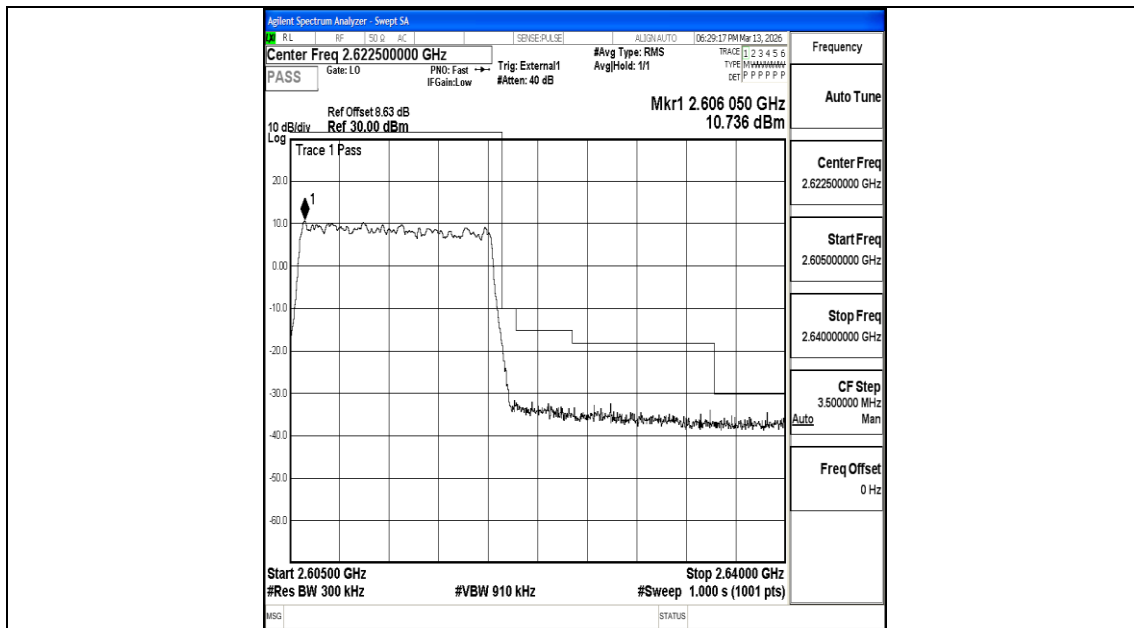


Band38_5MHz_16QAM_38225_25RB#0

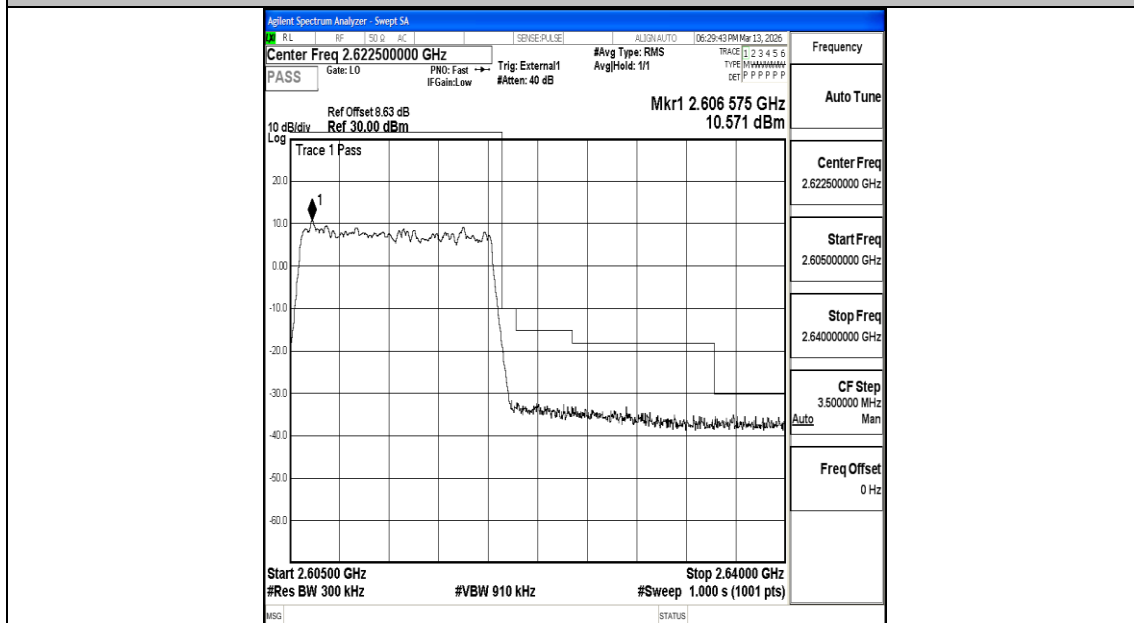




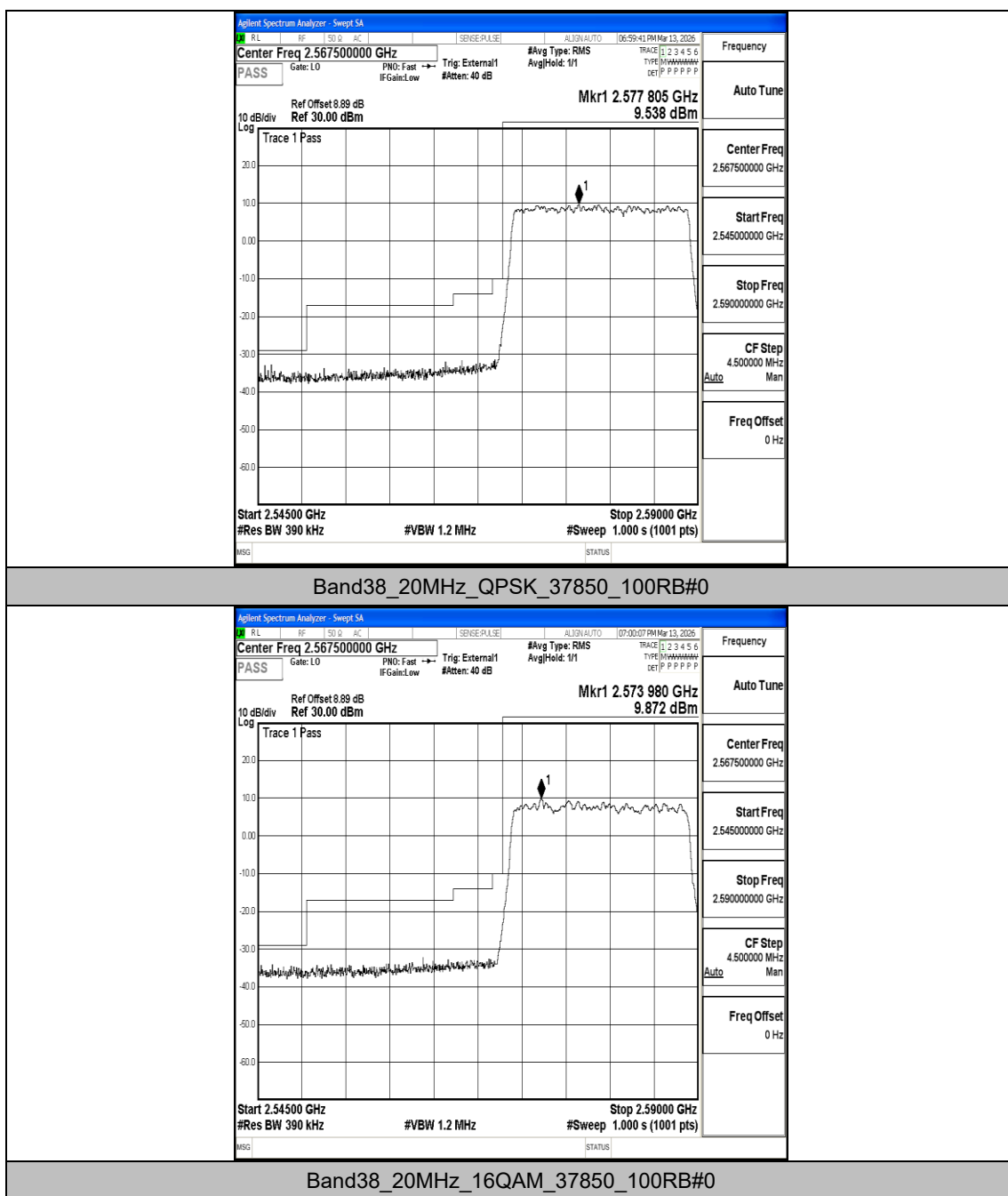


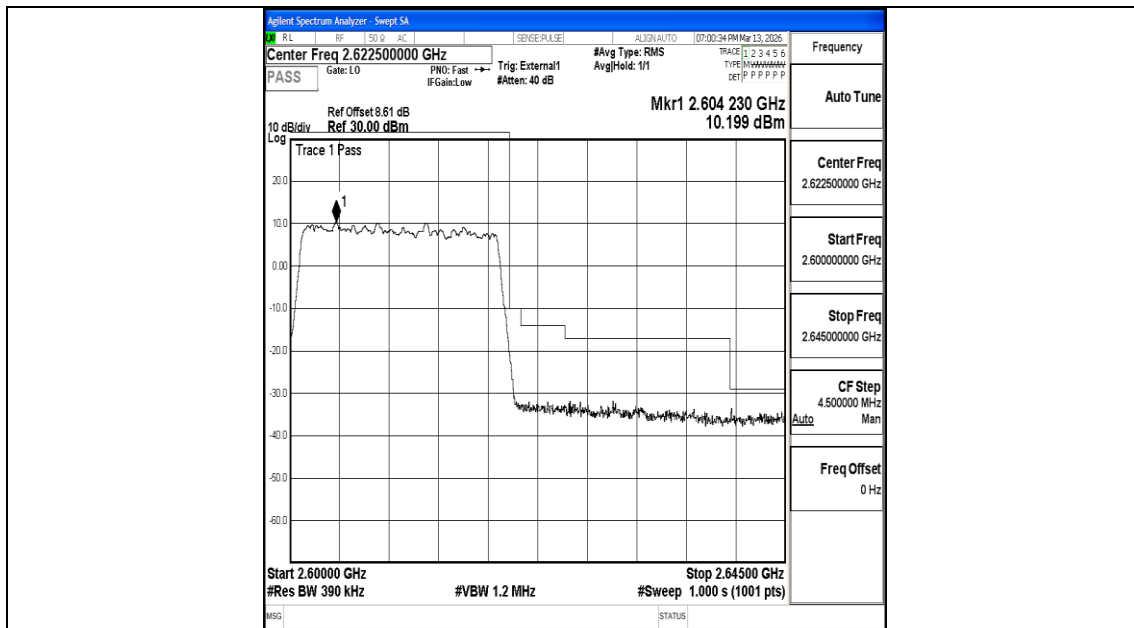


Band38_15MHz_QPSK_38175_75RB#0

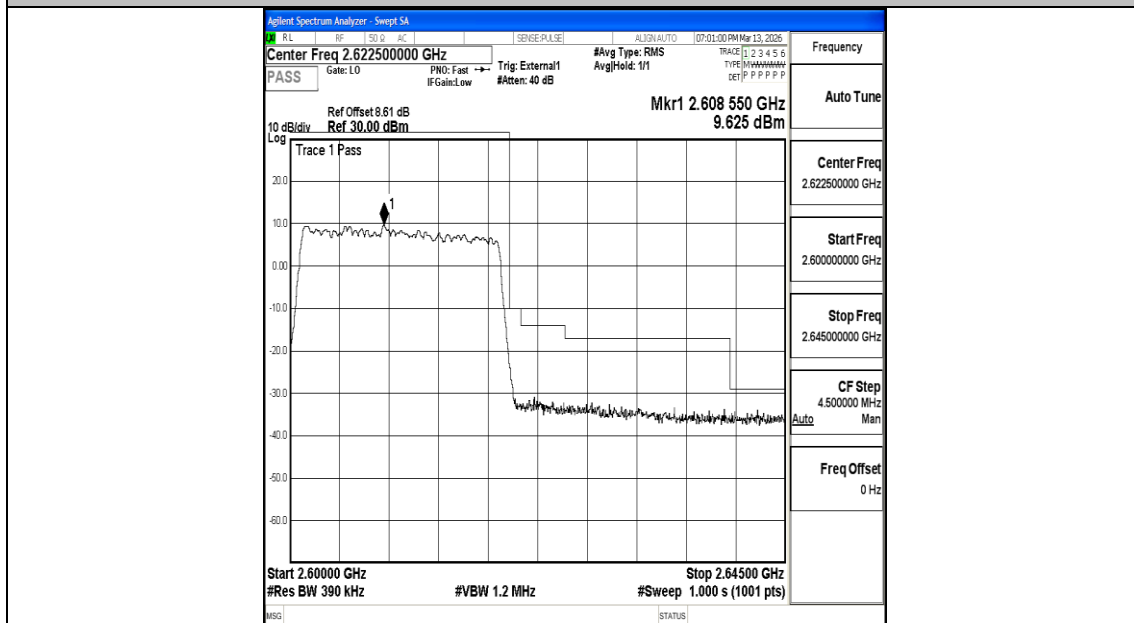


Band38_15MHz_16QAM_38175_75RB#0





Band38_20MHz_QPSK_38150_100RB#0



Band38_20MHz_16QAM_38150_100RB#0

D Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	0.009~0.15	-65.12	PASS
Band38	5MHz	QPSK	37775	1RB#0	0.15~30	-51.65	PASS
Band38	5MHz	QPSK	37775	1RB#0	30~1000	-52.69	PASS
Band38	5MHz	QPSK	37775	1RB#0	1000~20000	-28.14	PASS
Band38	5MHz	QPSK	37775	1RB#0	20000~27000	-35.04	PASS
Band38	5MHz	16QAM	37775	1RB#0	0.009~0.15	-66.47	PASS
Band38	5MHz	16QAM	37775	1RB#0	0.15~30	-57.62	PASS
Band38	5MHz	16QAM	37775	1RB#0	30~1000	-53.30	PASS
Band38	5MHz	16QAM	37775	1RB#0	1000~20000	-28.78	PASS
Band38	5MHz	16QAM	37775	1RB#0	20000~27000	-35.90	PASS
Band38	5MHz	QPSK	38000	1RB#0	0.009~0.15	-64.25	PASS
Band38	5MHz	QPSK	38000	1RB#0	0.15~30	-53.43	PASS
Band38	5MHz	QPSK	38000	1RB#0	30~1000	-52.37	PASS
Band38	5MHz	QPSK	38000	1RB#0	1000~20000	-28.52	PASS
Band38	5MHz	QPSK	38000	1RB#0	20000~27000	-36.81	PASS
Band38	5MHz	16QAM	38000	1RB#0	0.009~0.15	-63.75	PASS
Band38	5MHz	16QAM	38000	1RB#0	0.15~30	-52.73	PASS
Band38	5MHz	16QAM	38000	1RB#0	30~1000	-51.23	PASS
Band38	5MHz	16QAM	38000	1RB#0	1000~20000	-28.02	PASS
Band38	5MHz	16QAM	38000	1RB#0	20000~27000	-35.77	PASS
Band38	5MHz	QPSK	38225	1RB#0	0.009~0.15	-63.82	PASS
Band38	5MHz	QPSK	38225	1RB#0	0.15~30	-53.55	PASS
Band38	5MHz	QPSK	38225	1RB#0	30~1000	-51.02	PASS
Band38	5MHz	QPSK	38225	1RB#0	1000~20000	-28.31	PASS
Band38	5MHz	QPSK	38225	1RB#0	20000~27000	-36.20	PASS
Band38	5MHz	16QAM	38225	1RB#0	0.009~0.15	-66.11	PASS
Band38	5MHz	16QAM	38225	1RB#0	0.15~30	-56.17	PASS
Band38	5MHz	16QAM	38225	1RB#0	30~1000	-51.20	PASS
Band38	5MHz	16QAM	38225	1RB#0	1000~20000	-28.54	PASS
Band38	5MHz	16QAM	38225	1RB#0	20000~27000	-36.38	PASS
Band38	10MHz	QPSK	37800	1RB#0	0.009~0.15	-63.46	PASS
Band38	10MHz	QPSK	37800	1RB#0	0.15~30	-51.89	PASS
Band38	10MHz	QPSK	37800	1RB#0	30~1000	-52.55	PASS
Band38	10MHz	QPSK	37800	1RB#0	1000~20000	-28.69	PASS
Band38	10MHz	QPSK	37800	1RB#0	20000~27000	-35.53	PASS
Band38	10MHz	16QAM	37800	1RB#0	0.009~0.15	-64.18	PASS

Band38	10MHz	16QAM	37800	1RB#0	0.15~30	-57.16	PASS
Band38	10MHz	16QAM	37800	1RB#0	30~1000	-53.21	PASS
Band38	10MHz	16QAM	37800	1RB#0	1000~20000	-28.89	PASS
Band38	10MHz	16QAM	37800	1RB#0	20000~27000	-36.69	PASS
Band38	10MHz	QPSK	38000	1RB#0	0.009~0.15	-66.53	PASS
Band38	10MHz	QPSK	38000	1RB#0	0.15~30	-55.96	PASS
Band38	10MHz	QPSK	38000	1RB#0	30~1000	-51.73	PASS
Band38	10MHz	QPSK	38000	1RB#0	1000~20000	-28.83	PASS
Band38	10MHz	QPSK	38000	1RB#0	20000~27000	-36.85	PASS
Band38	10MHz	16QAM	38000	1RB#0	0.009~0.15	-66.50	PASS
Band38	10MHz	16QAM	38000	1RB#0	0.15~30	-53.02	PASS
Band38	10MHz	16QAM	38000	1RB#0	30~1000	-52.76	PASS
Band38	10MHz	16QAM	38000	1RB#0	1000~20000	-28.50	PASS
Band38	10MHz	16QAM	38000	1RB#0	20000~27000	-36.26	PASS
Band38	10MHz	QPSK	38200	1RB#0	0.009~0.15	-66.39	PASS
Band38	10MHz	QPSK	38200	1RB#0	0.15~30	-52.92	PASS
Band38	10MHz	QPSK	38200	1RB#0	30~1000	-52.82	PASS
Band38	10MHz	QPSK	38200	1RB#0	1000~20000	-27.78	PASS
Band38	10MHz	QPSK	38200	1RB#0	20000~27000	-36.91	PASS
Band38	10MHz	16QAM	38200	1RB#0	0.009~0.15	-66.15	PASS
Band38	10MHz	16QAM	38200	1RB#0	0.15~30	-54.78	PASS
Band38	10MHz	16QAM	38200	1RB#0	30~1000	-52.81	PASS
Band38	10MHz	16QAM	38200	1RB#0	1000~20000	-28.63	PASS
Band38	10MHz	16QAM	38200	1RB#0	20000~27000	-36.02	PASS
Band38	15MHz	QPSK	37825	1RB#0	0.009~0.15	-66.47	PASS
Band38	15MHz	QPSK	37825	1RB#0	0.15~30	-55.56	PASS
Band38	15MHz	QPSK	37825	1RB#0	30~1000	-52.61	PASS
Band38	15MHz	QPSK	37825	1RB#0	1000~20000	-28.31	PASS
Band38	15MHz	QPSK	37825	1RB#0	20000~27000	-36.70	PASS
Band38	15MHz	16QAM	37825	1RB#0	0.009~0.15	-64.55	PASS
Band38	15MHz	16QAM	37825	1RB#0	0.15~30	-53.30	PASS
Band38	15MHz	16QAM	37825	1RB#0	30~1000	-53.05	PASS
Band38	15MHz	16QAM	37825	1RB#0	1000~20000	-28.65	PASS
Band38	15MHz	16QAM	37825	1RB#0	20000~27000	-36.90	PASS
Band38	15MHz	QPSK	38000	1RB#0	0.009~0.15	-65.39	PASS
Band38	15MHz	QPSK	38000	1RB#0	0.15~30	-51.99	PASS
Band38	15MHz	QPSK	38000	1RB#0	30~1000	-52.71	PASS
Band38	15MHz	QPSK	38000	1RB#0	1000~20000	-28.74	PASS
Band38	15MHz	QPSK	38000	1RB#0	20000~27000	-36.04	PASS
Band38	15MHz	16QAM	38000	1RB#0	0.009~0.15	-66.36	PASS
Band38	15MHz	16QAM	38000	1RB#0	0.15~30	-52.41	PASS
Band38	15MHz	16QAM	38000	1RB#0	30~1000	-52.28	PASS
Band38	15MHz	16QAM	38000	1RB#0	1000~20000	-28.71	PASS

Band38	15MHz	16QAM	38000	1RB#0	20000~27000	-36.30	PASS
Band38	15MHz	QPSK	38175	1RB#0	0.009~0.15	-66.33	PASS
Band38	15MHz	QPSK	38175	1RB#0	0.15~30	-52.43	PASS
Band38	15MHz	QPSK	38175	1RB#0	30~1000	-52.75	PASS
Band38	15MHz	QPSK	38175	1RB#0	1000~20000	-28.65	PASS
Band38	15MHz	QPSK	38175	1RB#0	20000~27000	-36.69	PASS
Band38	15MHz	16QAM	38175	1RB#0	0.009~0.15	-63.61	PASS
Band38	15MHz	16QAM	38175	1RB#0	0.15~30	-52.54	PASS
Band38	15MHz	16QAM	38175	1RB#0	30~1000	-52.76	PASS
Band38	15MHz	16QAM	38175	1RB#0	1000~20000	-29.04	PASS
Band38	15MHz	16QAM	38175	1RB#0	20000~27000	-36.73	PASS
Band38	20MHz	QPSK	37850	1RB#0	0.009~0.15	-65.38	PASS
Band38	20MHz	QPSK	37850	1RB#0	0.15~30	-51.87	PASS
Band38	20MHz	QPSK	37850	1RB#0	30~1000	-51.79	PASS
Band38	20MHz	QPSK	37850	1RB#0	1000~20000	-28.50	PASS
Band38	20MHz	QPSK	37850	1RB#0	20000~27000	-35.73	PASS
Band38	20MHz	16QAM	37850	1RB#0	0.009~0.15	-65.39	PASS
Band38	20MHz	16QAM	37850	1RB#0	0.15~30	-56.95	PASS
Band38	20MHz	16QAM	37850	1RB#0	30~1000	-53.44	PASS
Band38	20MHz	16QAM	37850	1RB#0	1000~20000	-29.01	PASS
Band38	20MHz	16QAM	37850	1RB#0	20000~27000	-36.62	PASS
Band38	20MHz	QPSK	38000	1RB#0	0.009~0.15	-66.94	PASS
Band38	20MHz	QPSK	38000	1RB#0	0.15~30	-55.27	PASS
Band38	20MHz	QPSK	38000	1RB#0	30~1000	-51.73	PASS
Band38	20MHz	QPSK	38000	1RB#0	1000~20000	-27.99	PASS
Band38	20MHz	QPSK	38000	1RB#0	20000~27000	-36.70	PASS
Band38	20MHz	16QAM	38000	1RB#0	0.009~0.15	-65.20	PASS
Band38	20MHz	16QAM	38000	1RB#0	0.15~30	-52.17	PASS
Band38	20MHz	16QAM	38000	1RB#0	30~1000	-53.10	PASS
Band38	20MHz	16QAM	38000	1RB#0	1000~20000	-28.31	PASS
Band38	20MHz	16QAM	38000	1RB#0	20000~27000	-36.26	PASS
Band38	20MHz	QPSK	38150	1RB#0	0.009~0.15	-65.53	PASS
Band38	20MHz	QPSK	38150	1RB#0	0.15~30	-54.76	PASS
Band38	20MHz	QPSK	38150	1RB#0	30~1000	-52.33	PASS
Band38	20MHz	QPSK	38150	1RB#0	1000~20000	-28.34	PASS
Band38	20MHz	QPSK	38150	1RB#0	20000~27000	-36.10	PASS
Band38	20MHz	16QAM	38150	1RB#0	0.009~0.15	-64.79	PASS
Band38	20MHz	16QAM	38150	1RB#0	0.15~30	-53.97	PASS
Band38	20MHz	16QAM	38150	1RB#0	30~1000	-53.02	PASS
Band38	20MHz	16QAM	38150	1RB#0	1000~20000	-28.88	PASS
Band38	20MHz	16QAM	38150	1RB#0	20000~27000	-36.58	PASS

Test Graphs

