



FCC Appendix RF Test Data for Band 38

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)

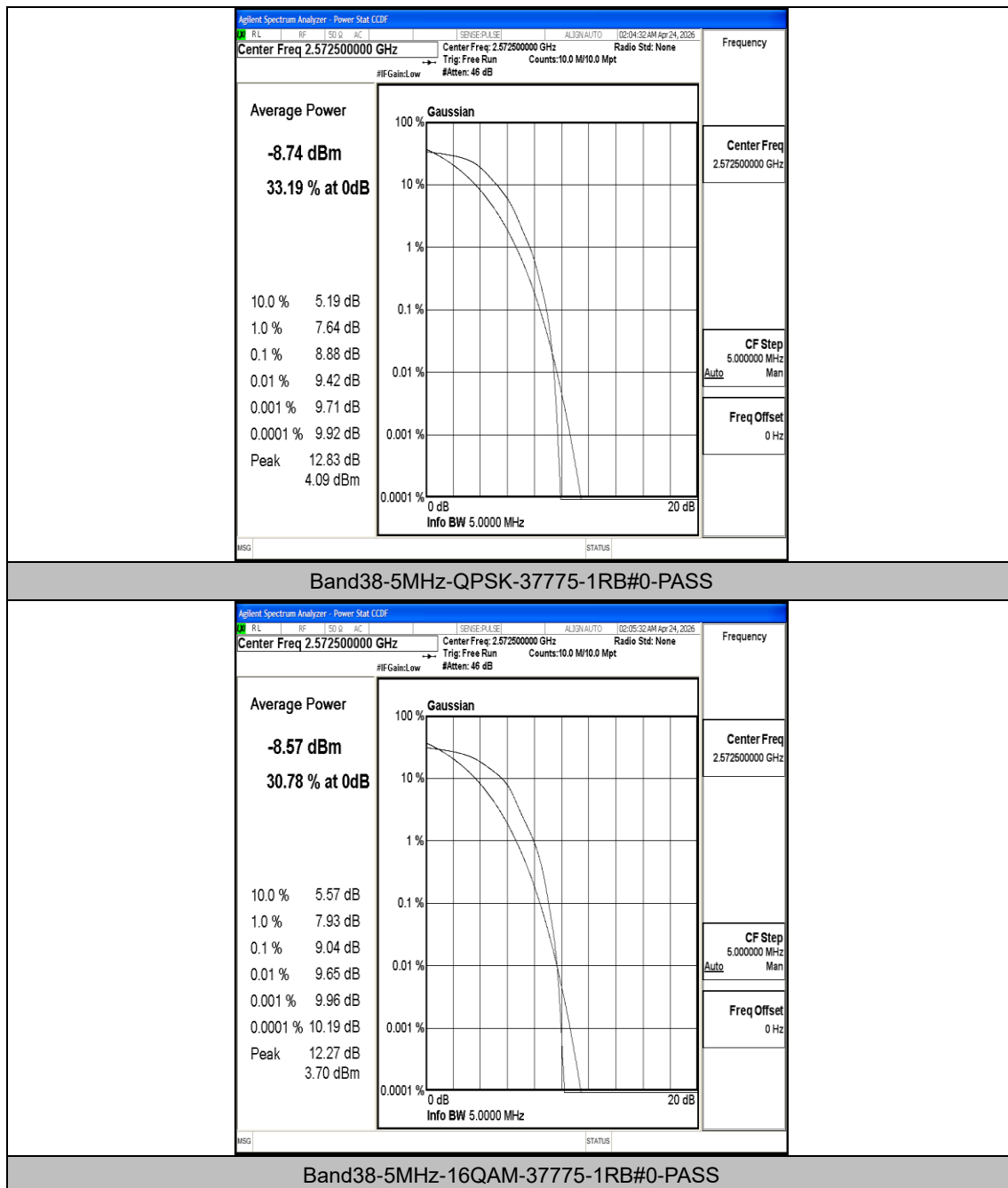
Test Result

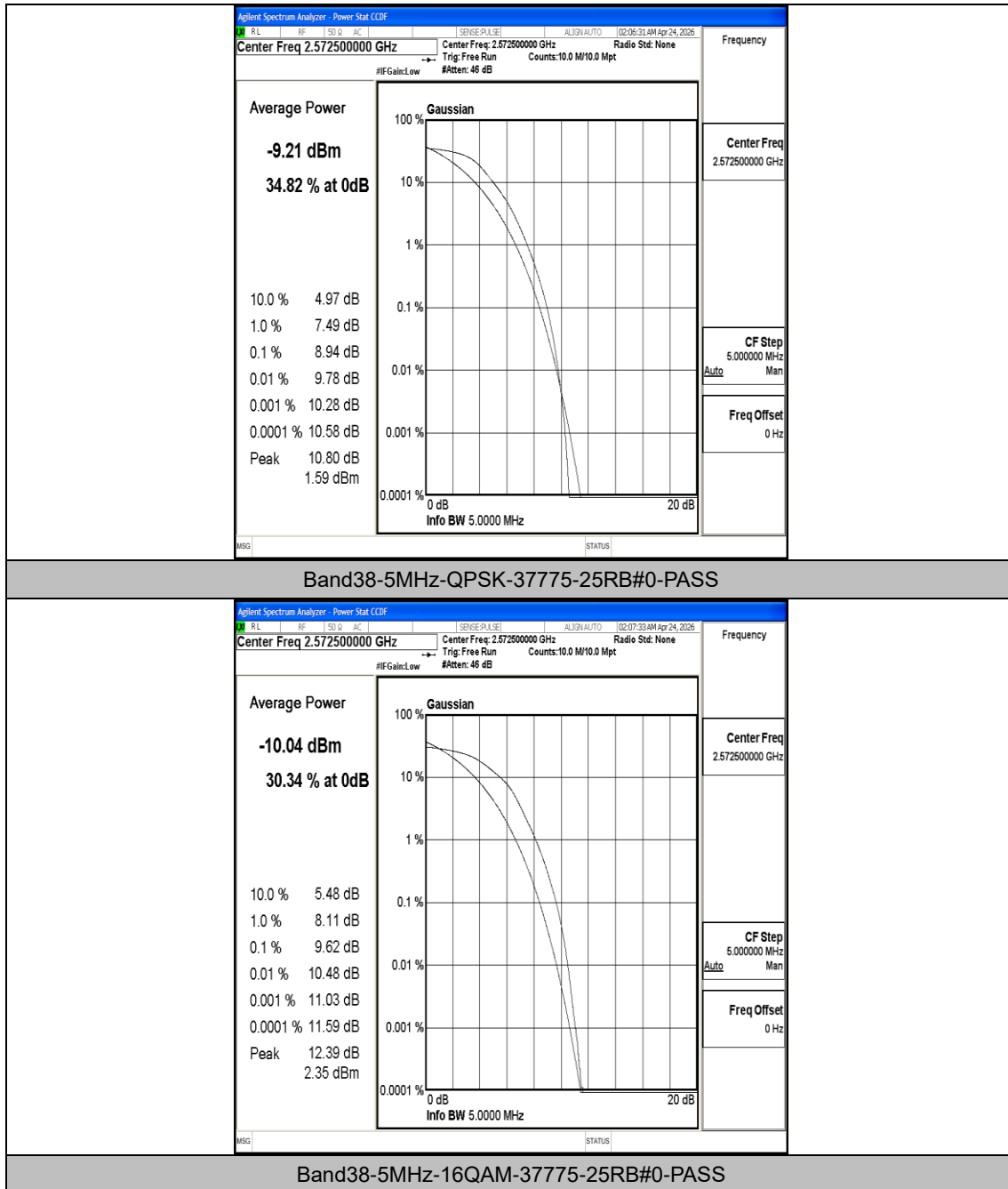
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.88	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.04	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	8.94	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.62	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.72	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.09	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	8.86	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.56	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.64	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.87	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.17	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.65	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.75	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.18	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.21	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.71	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.51	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	8.78	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.04	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.60	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.85	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.99	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.10	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.68	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.88	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.20	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.13	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.74	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.79	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.13	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.44	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.73	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.89	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.58	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.31	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	9.70	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.08	13	PASS

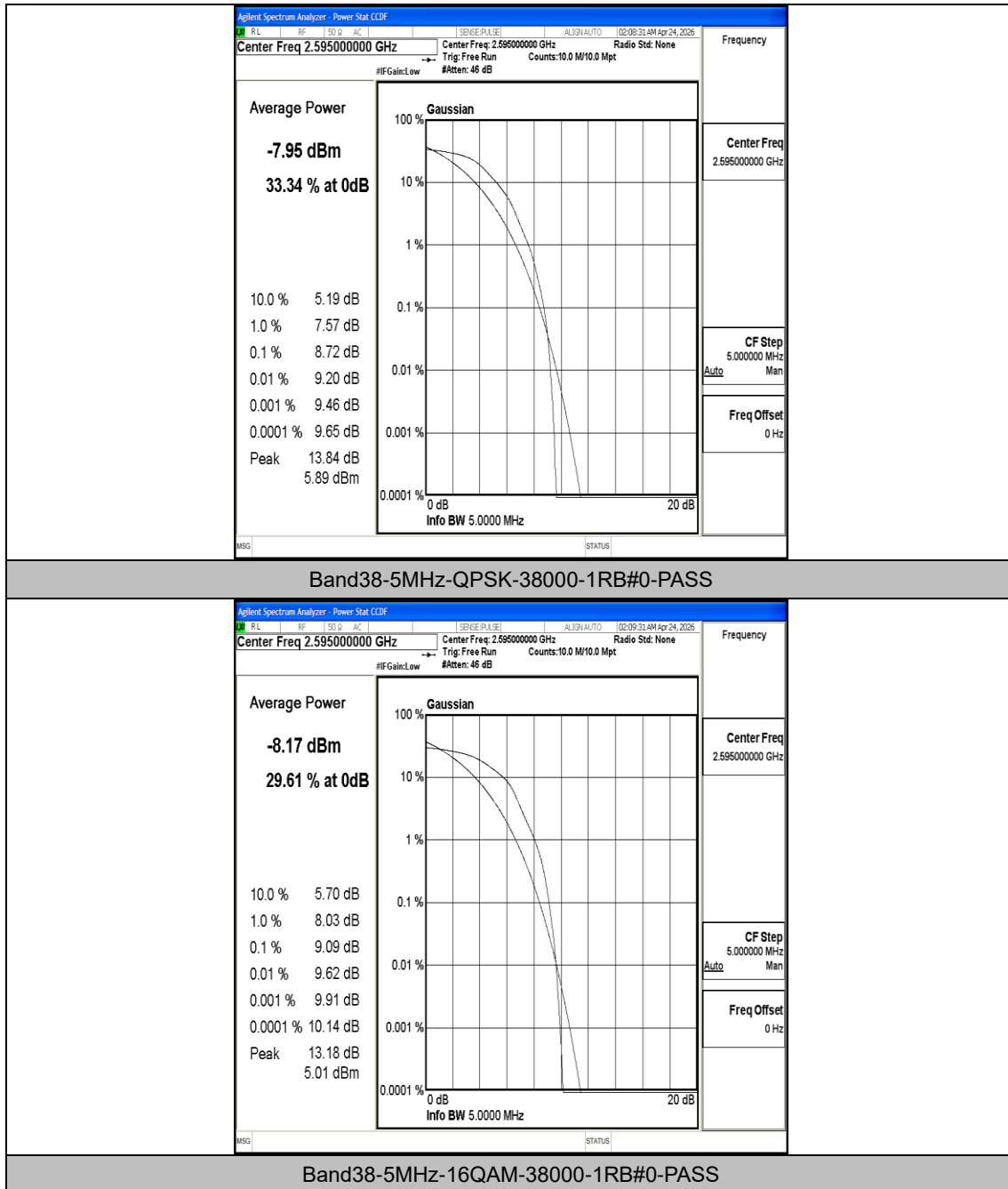


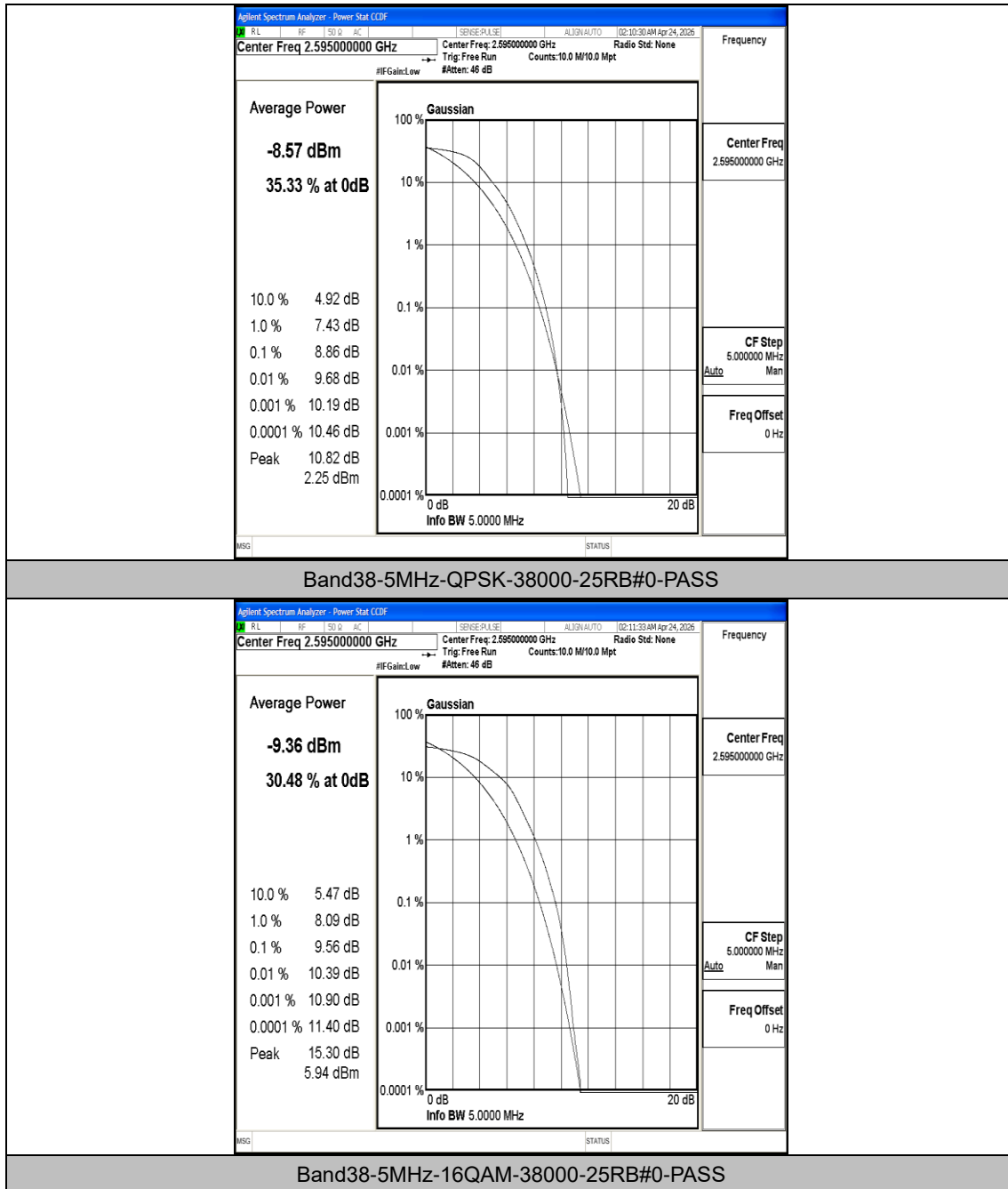
Band38	20MHz	16QAM	37850	1RB#0	9.15	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	9.00	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.81	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.57	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.18	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.16	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.99	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.47	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.43	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.00	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.57	13	PASS

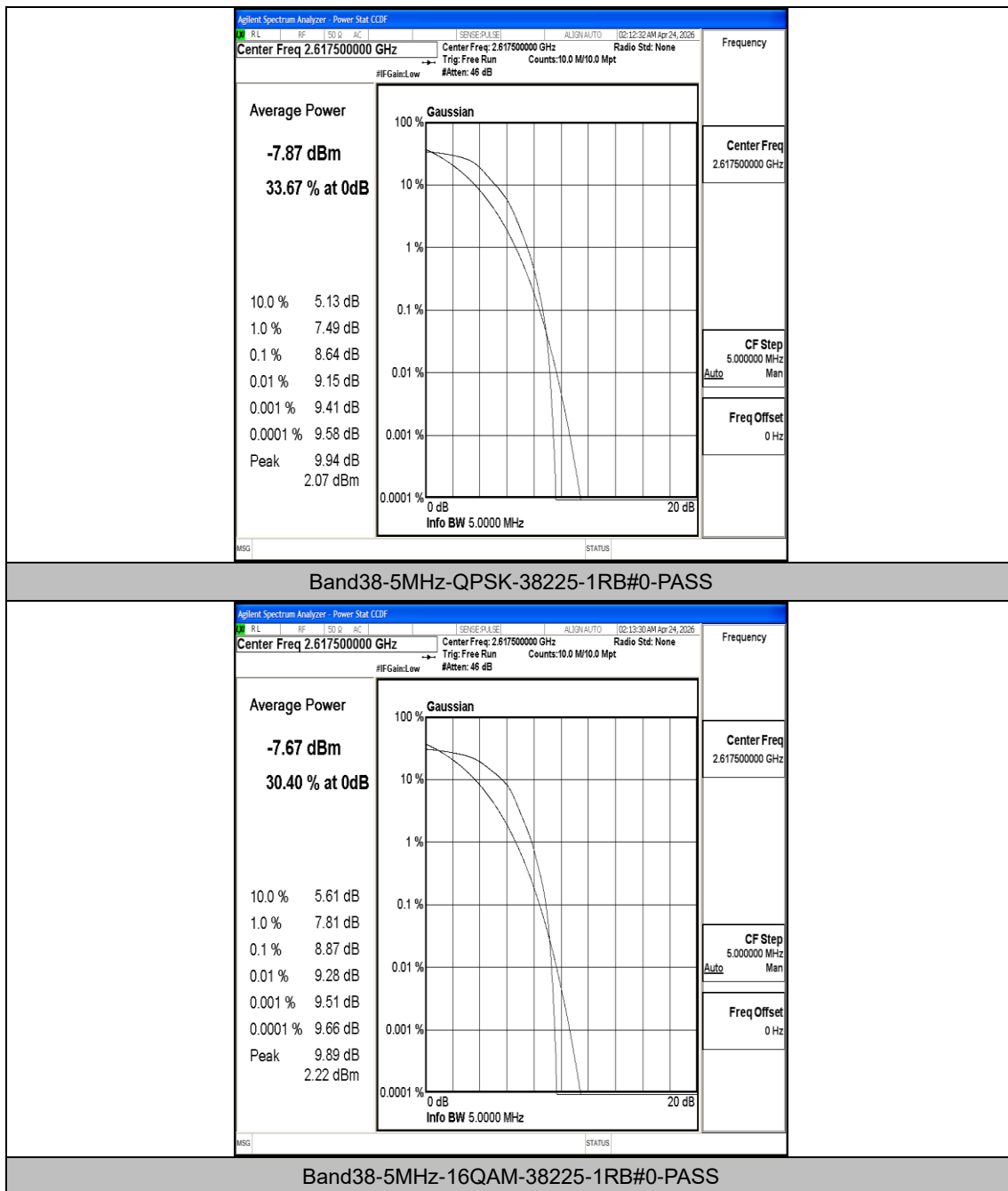
Test Graphs

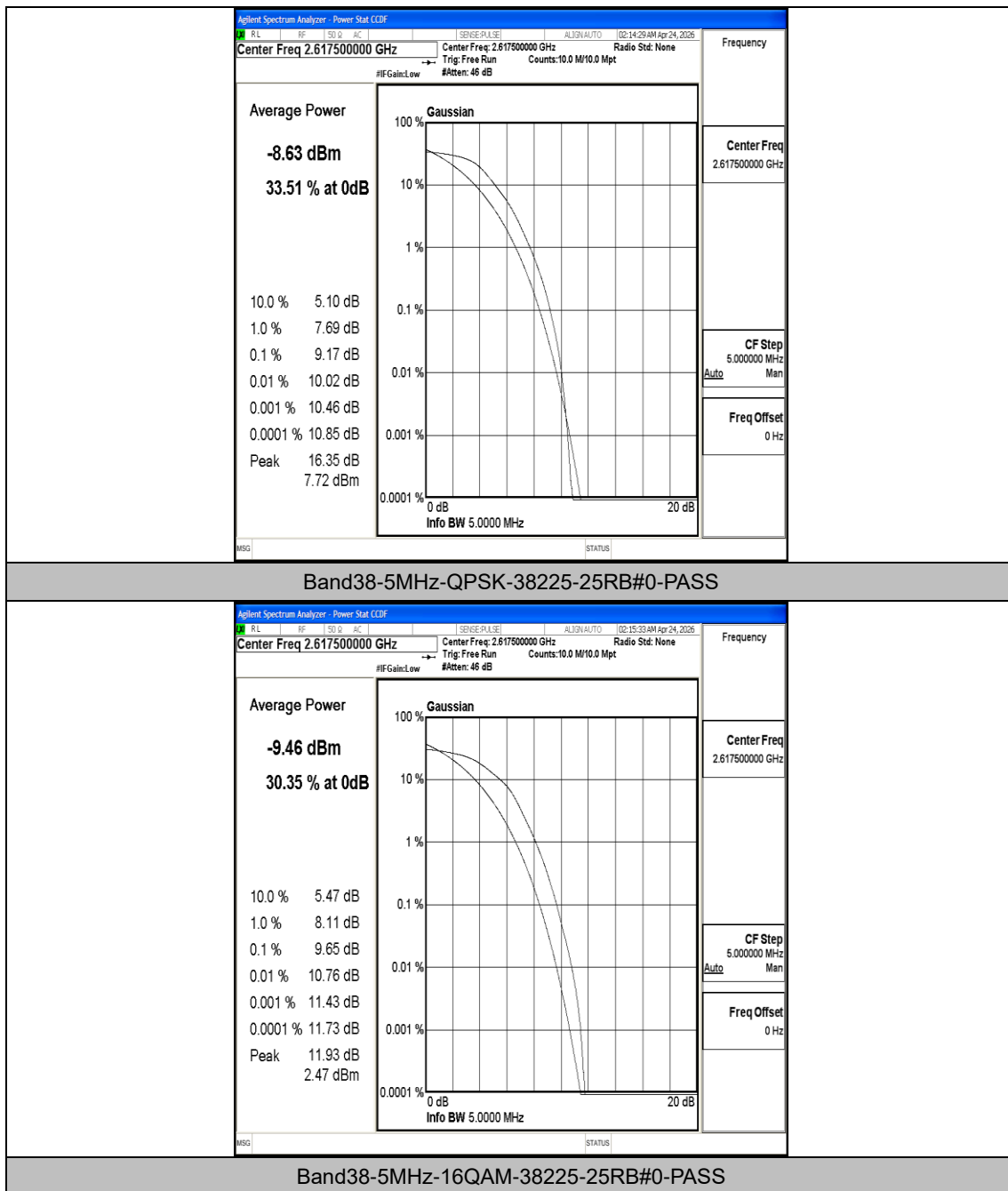


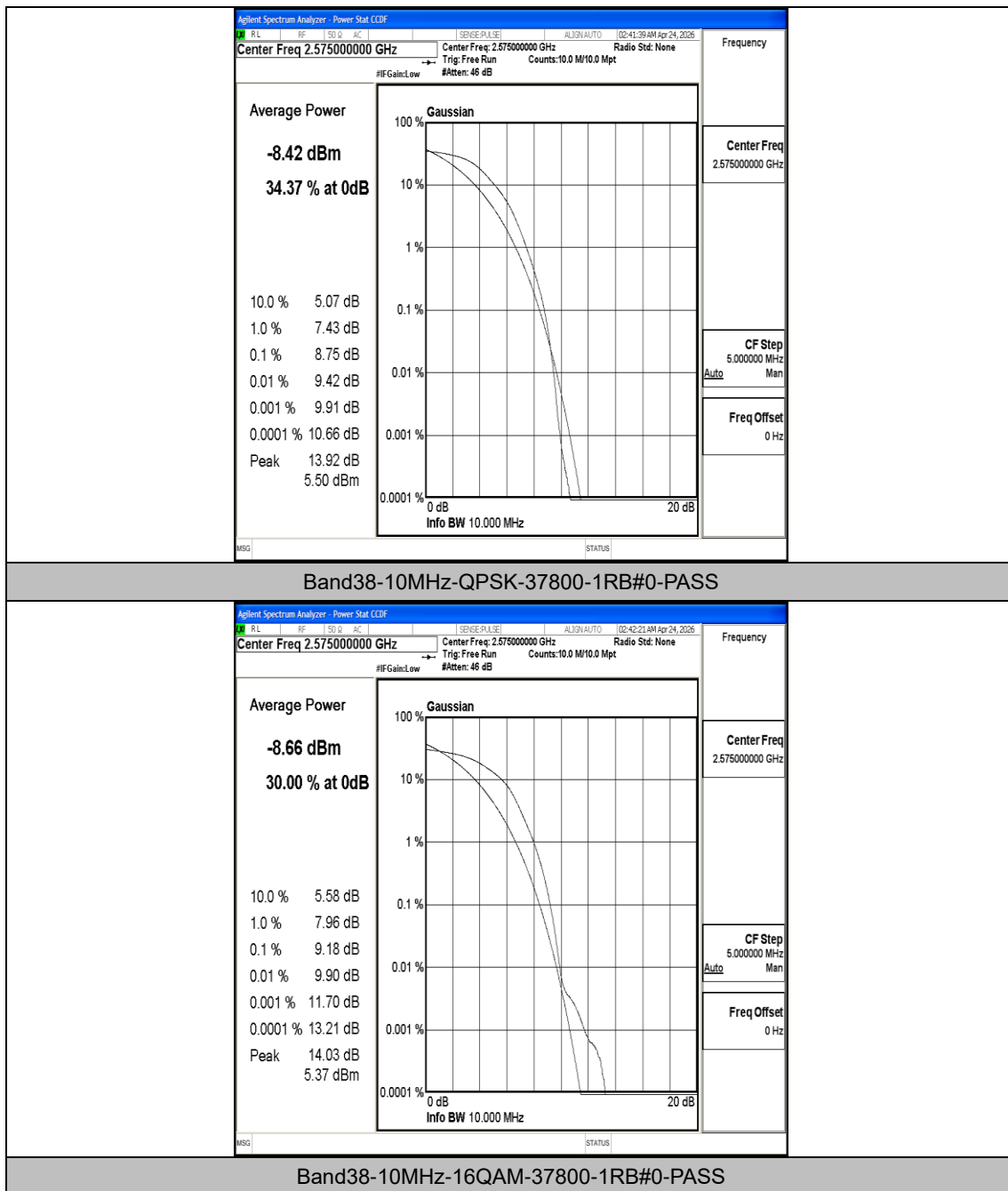


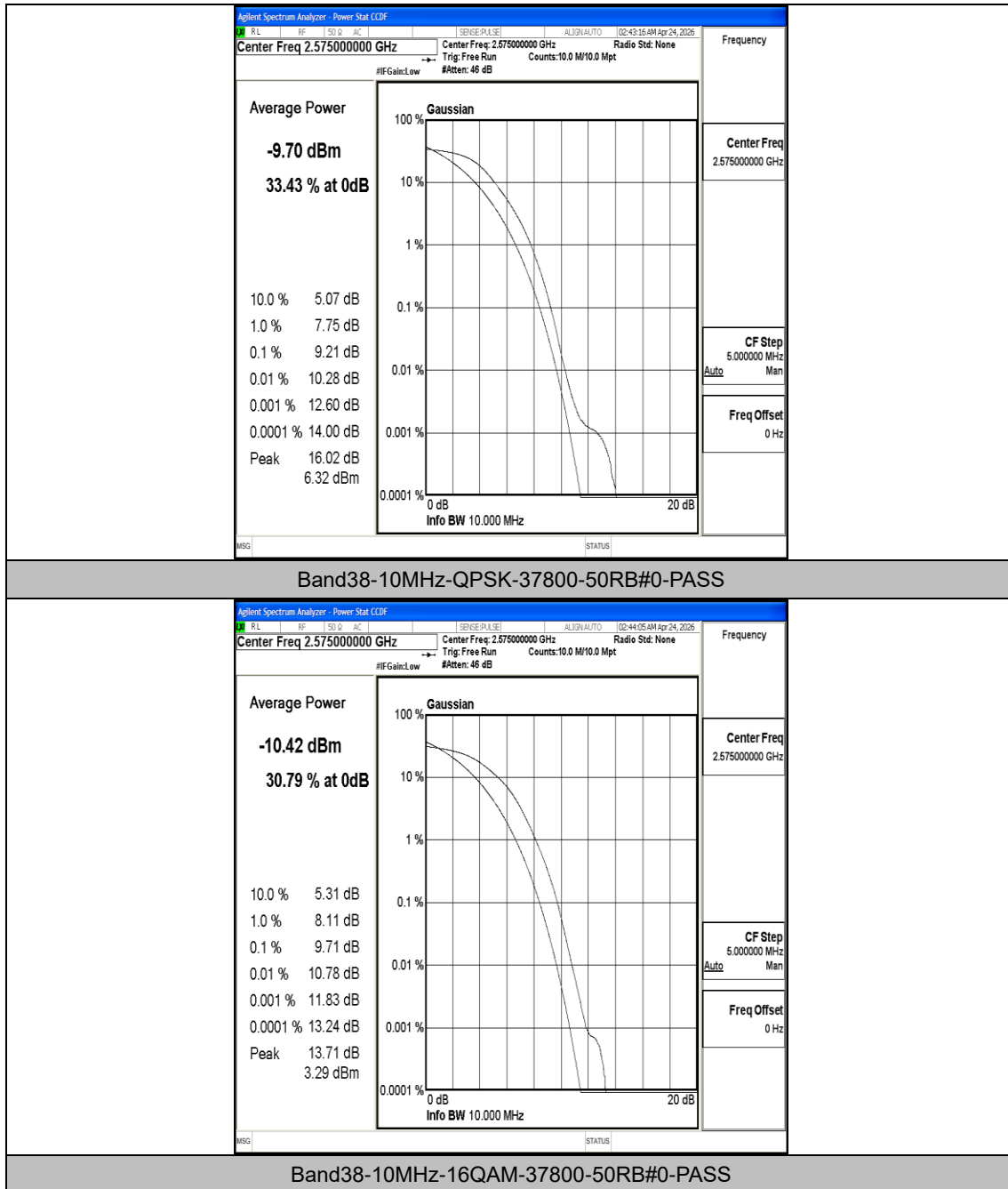


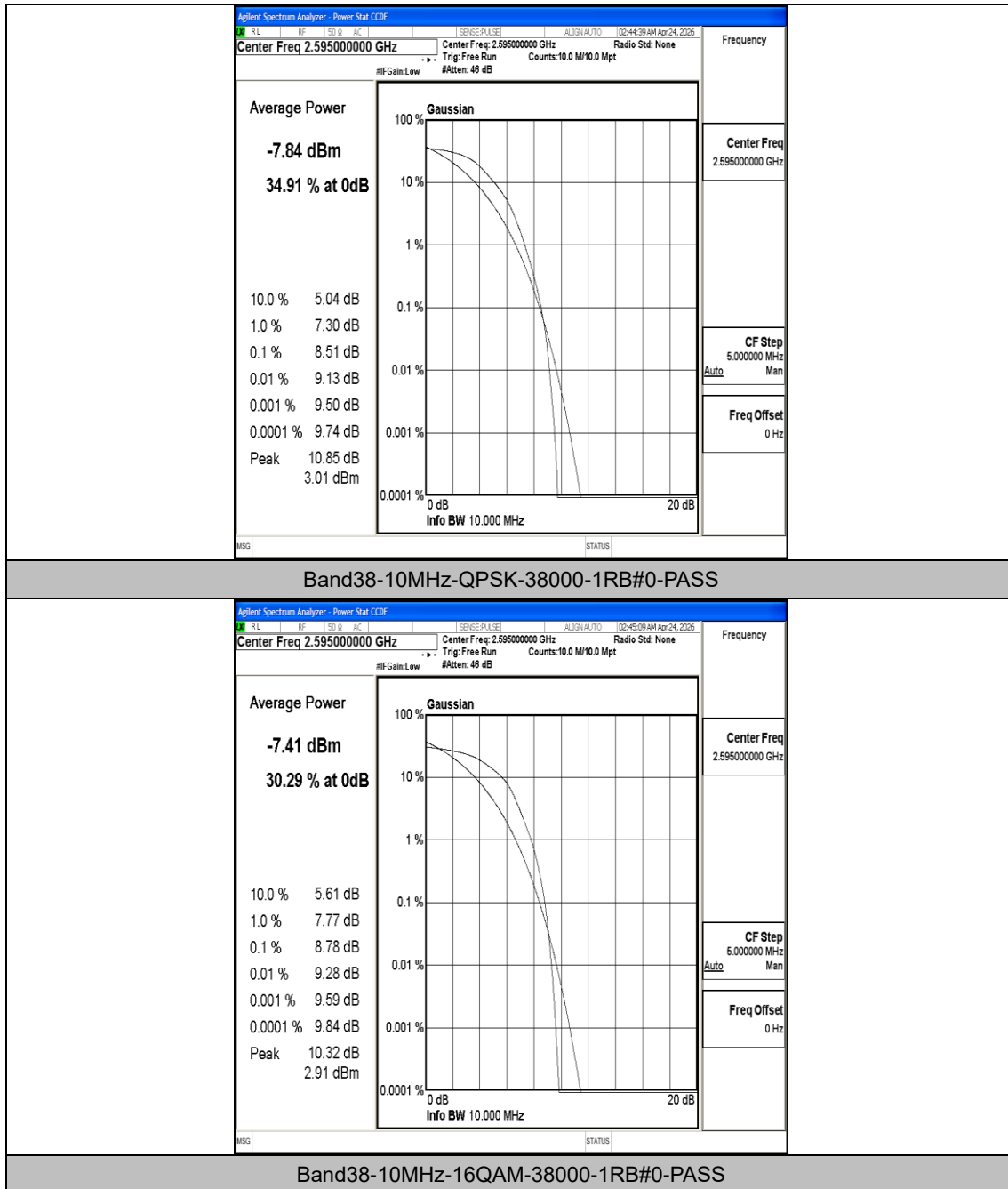


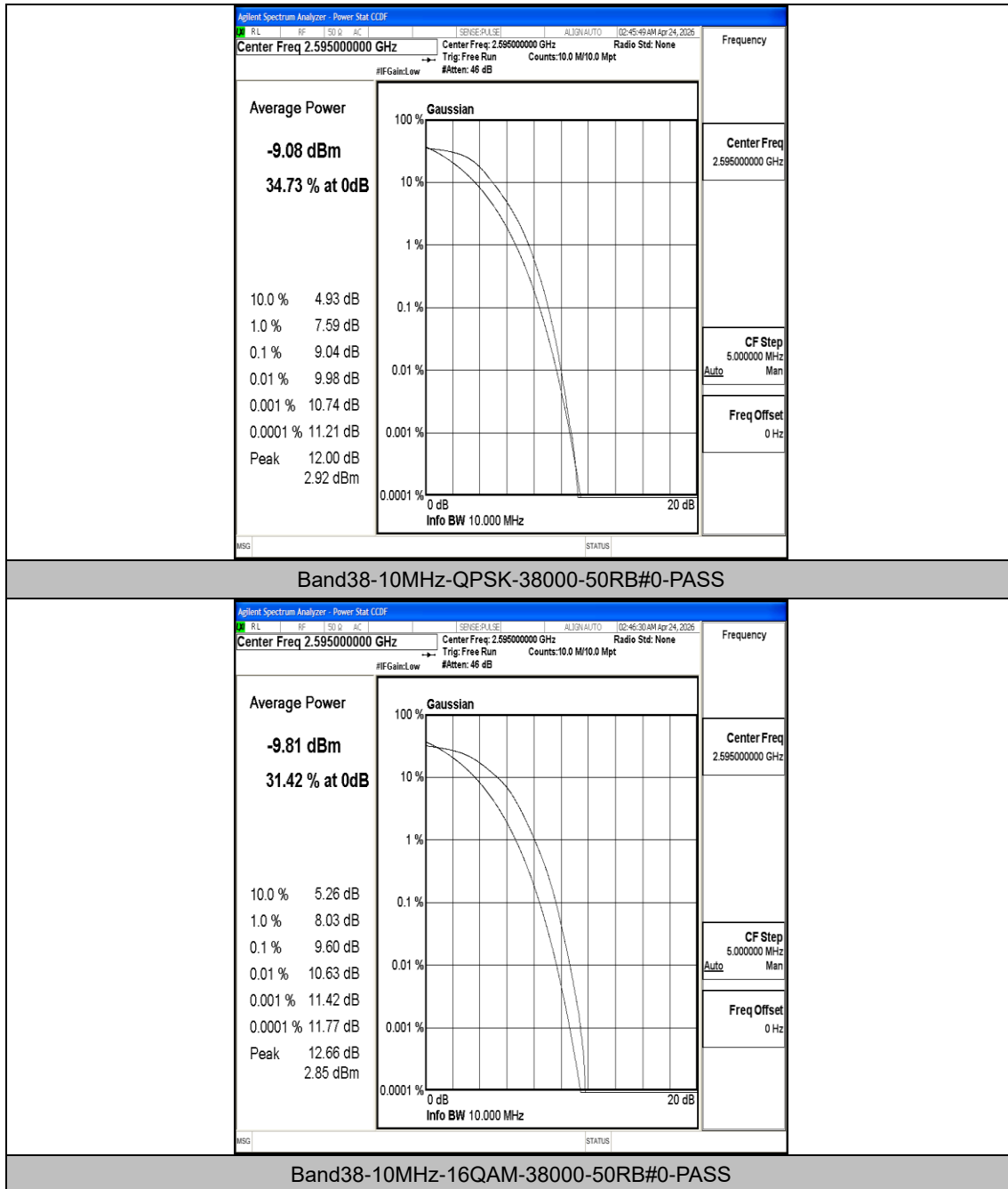


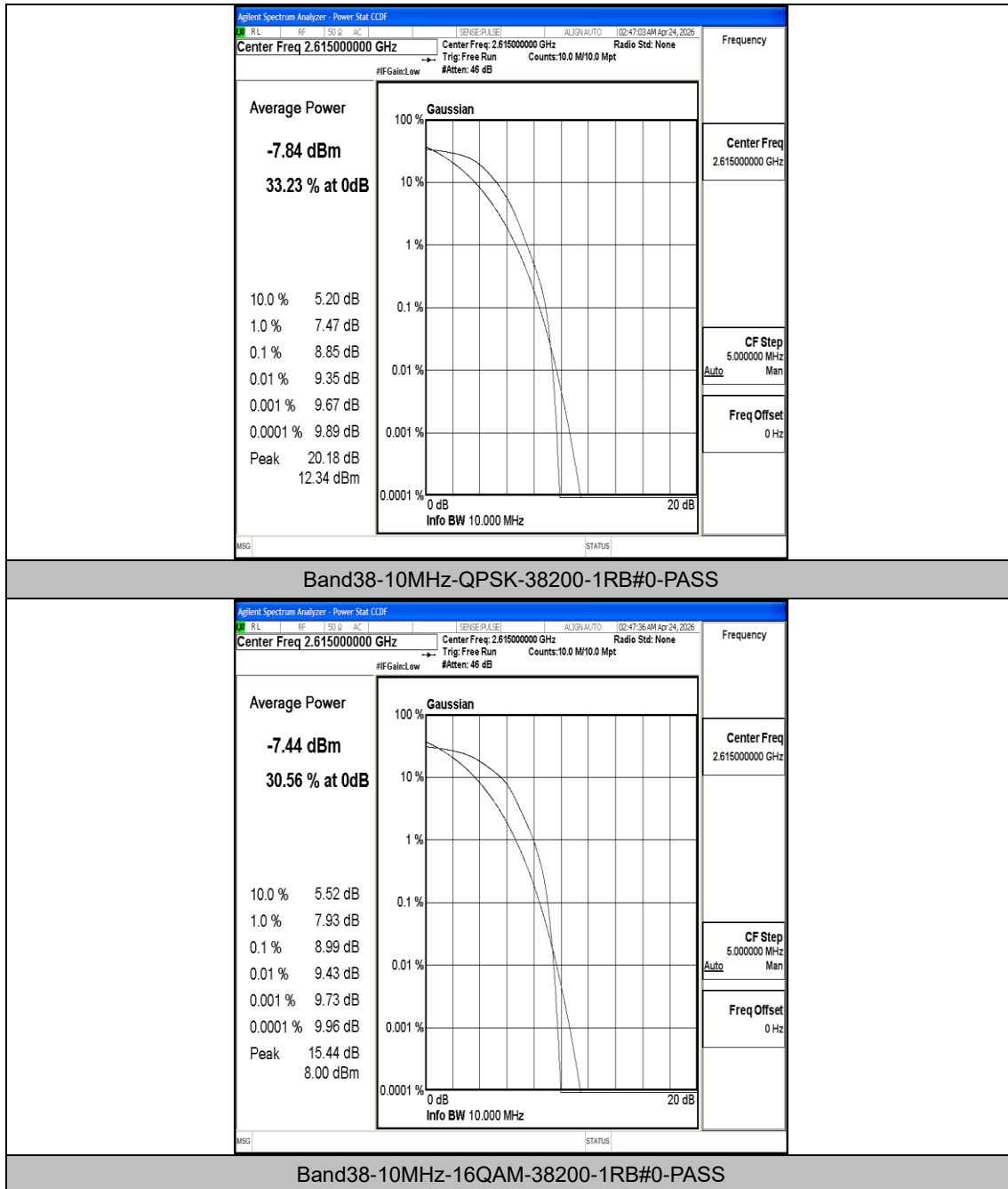


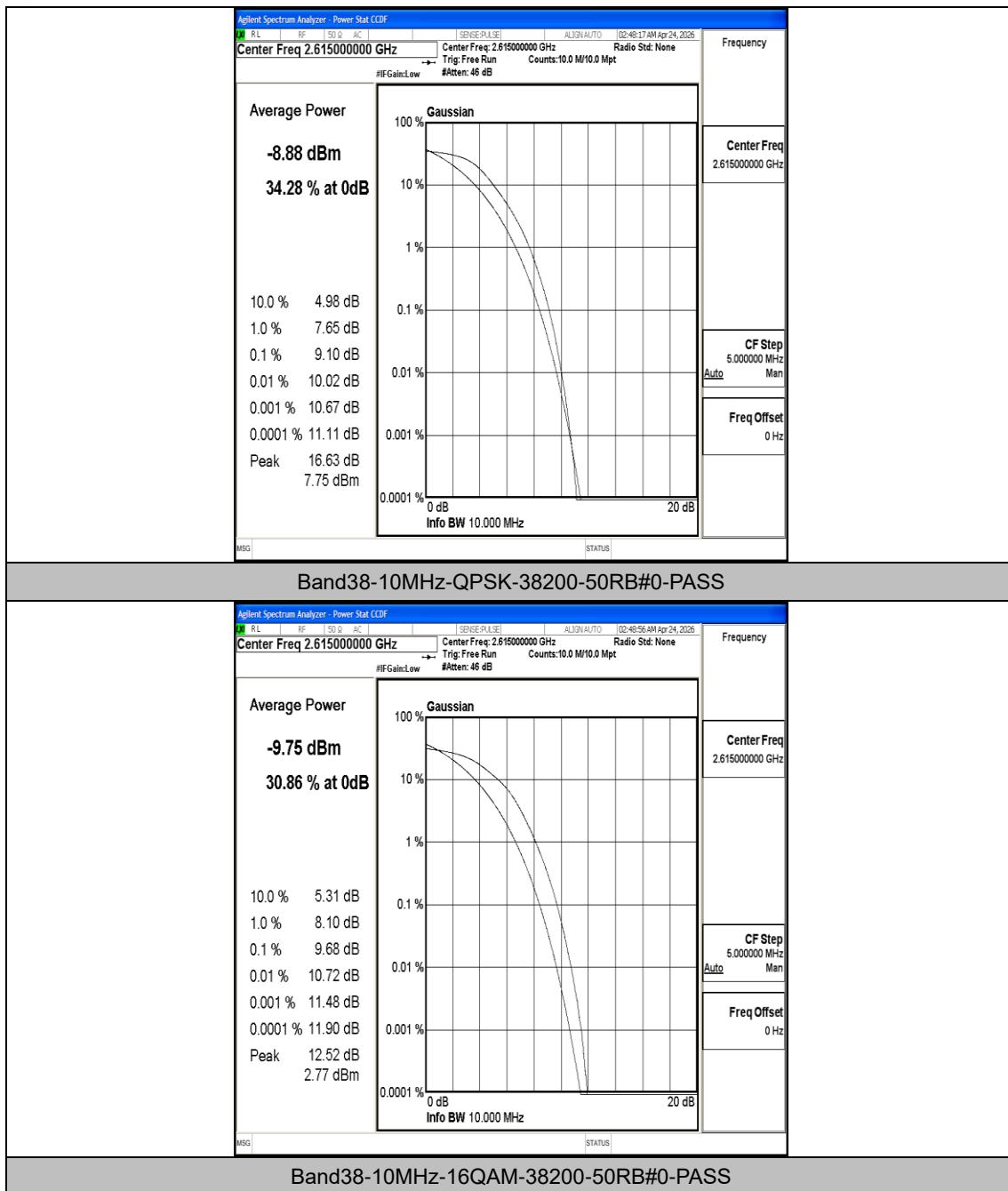


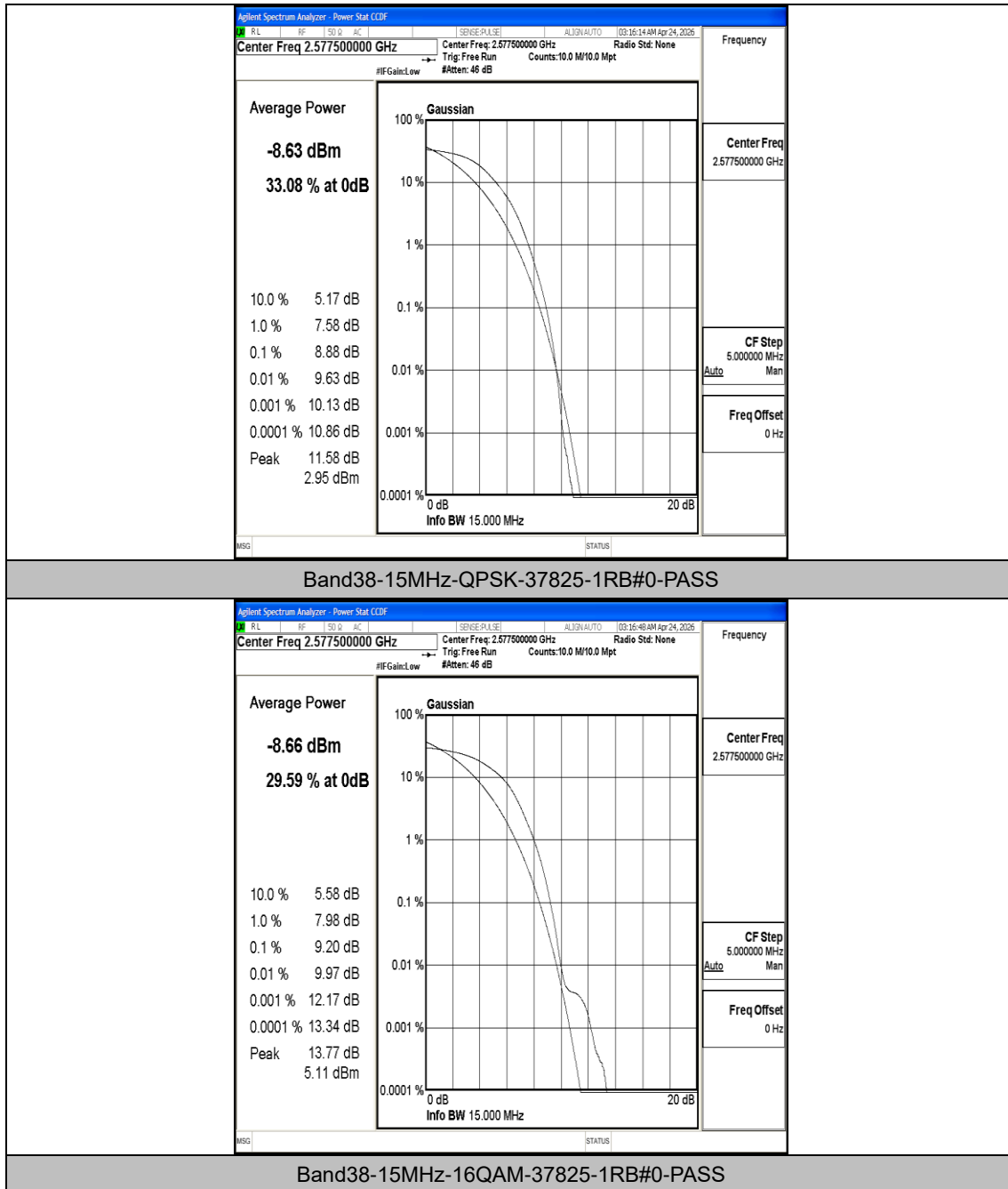


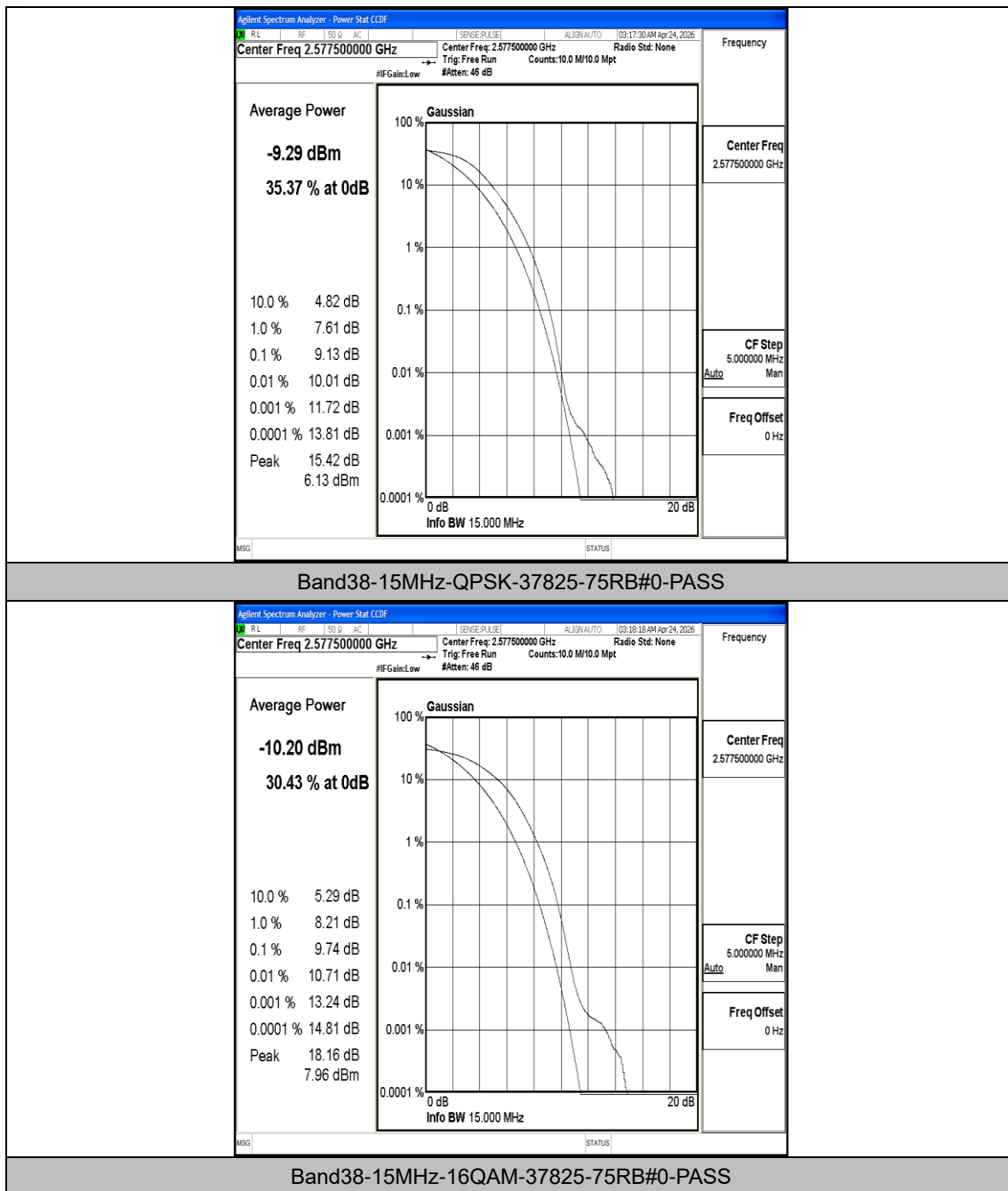


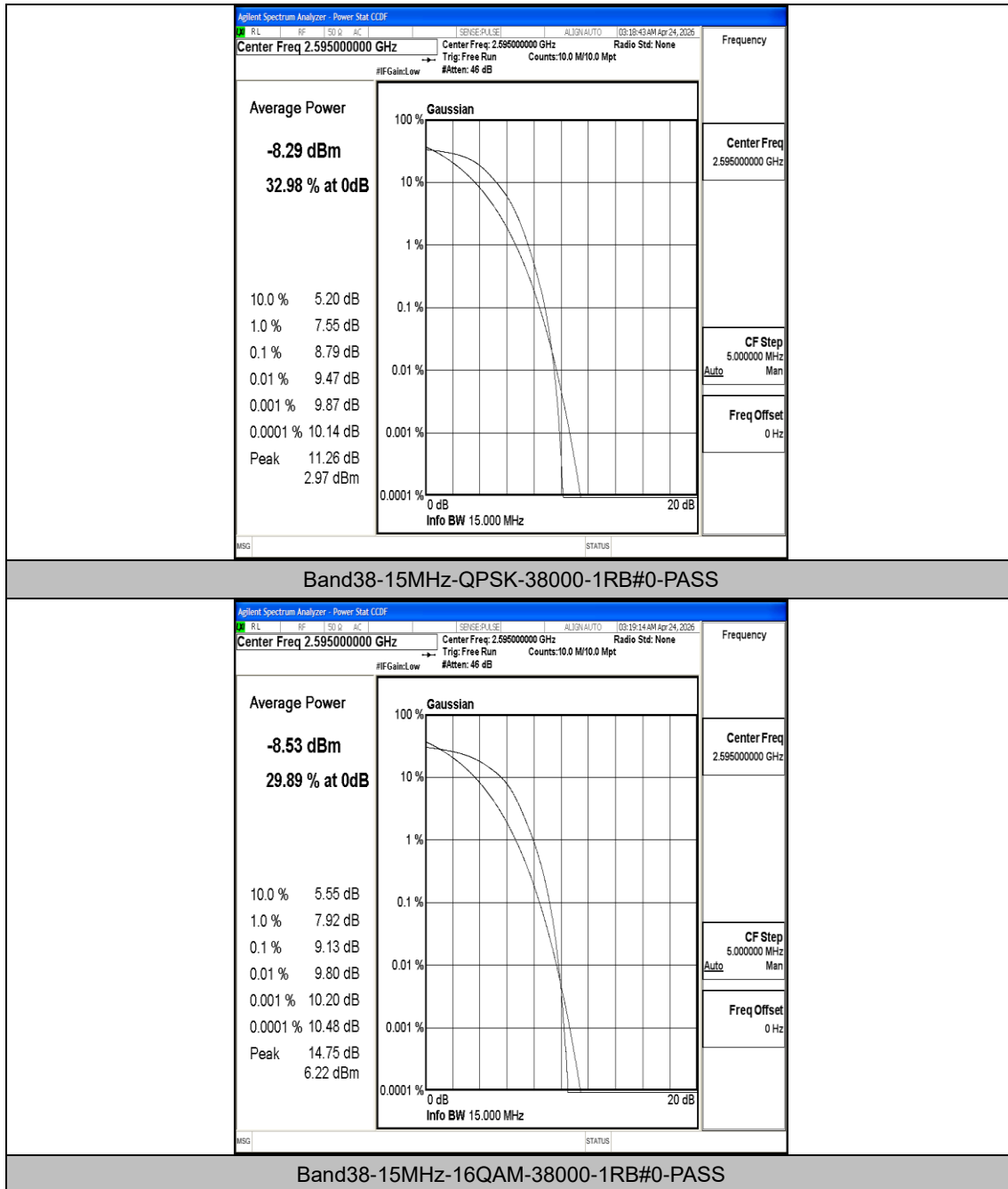


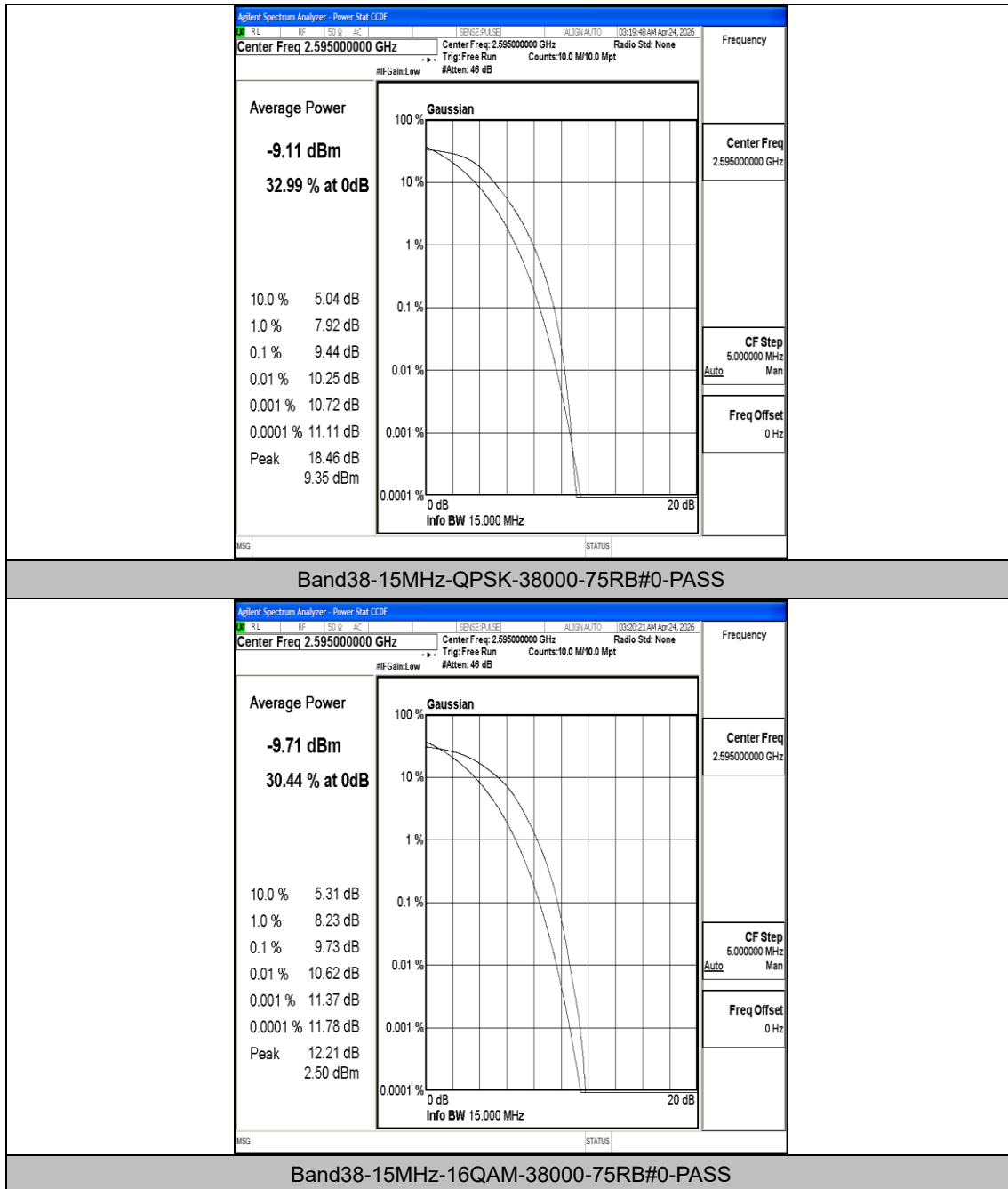


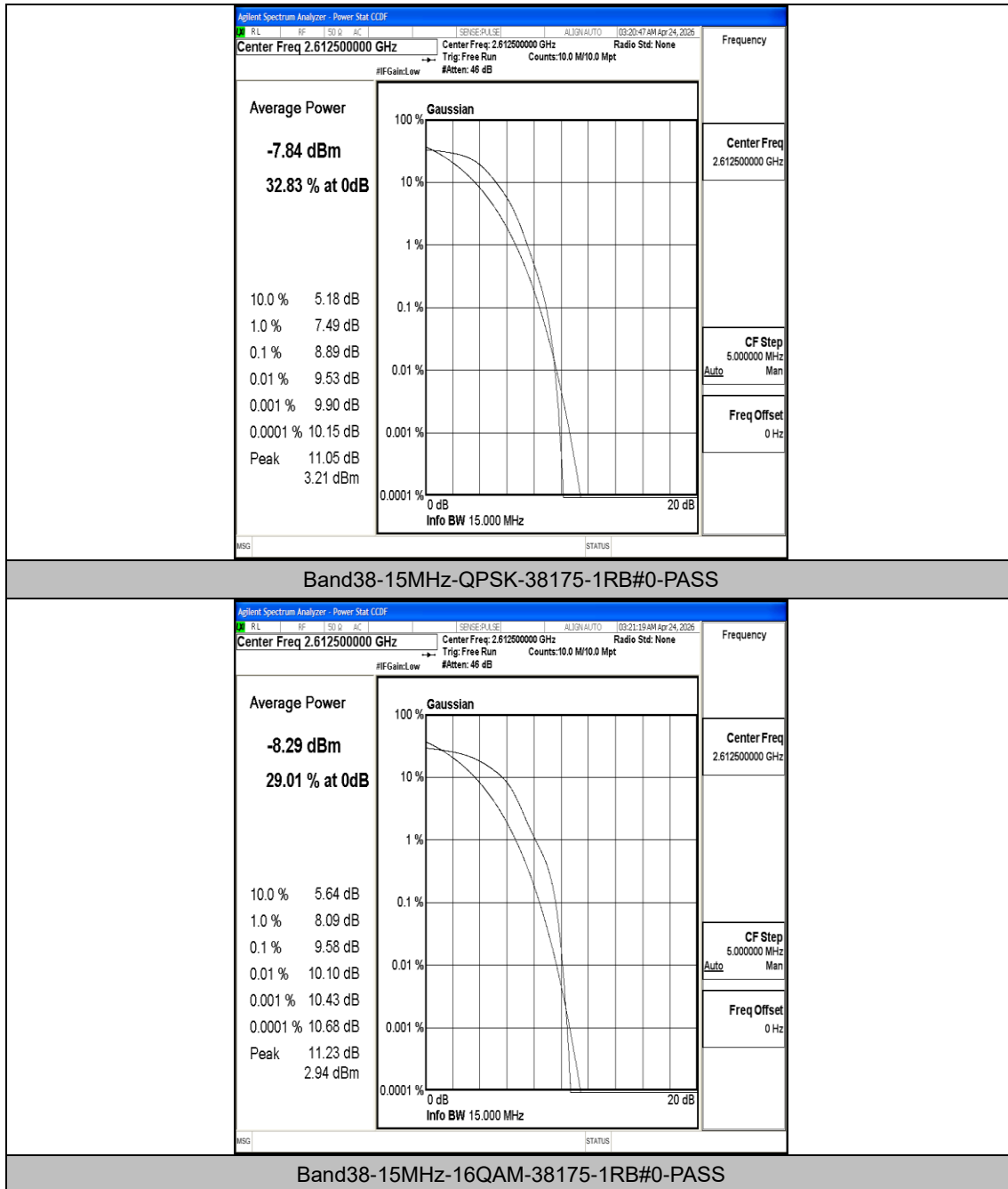


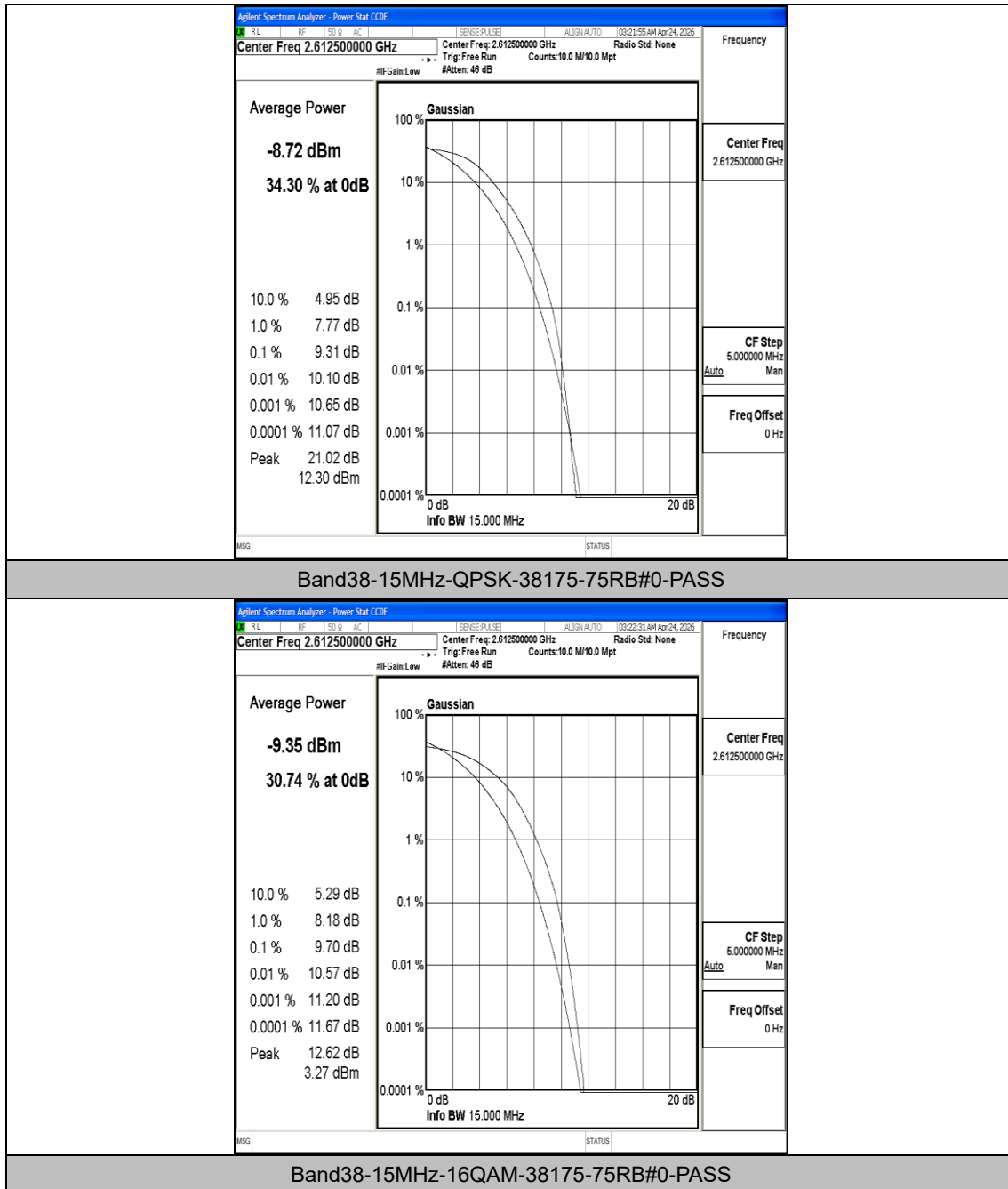


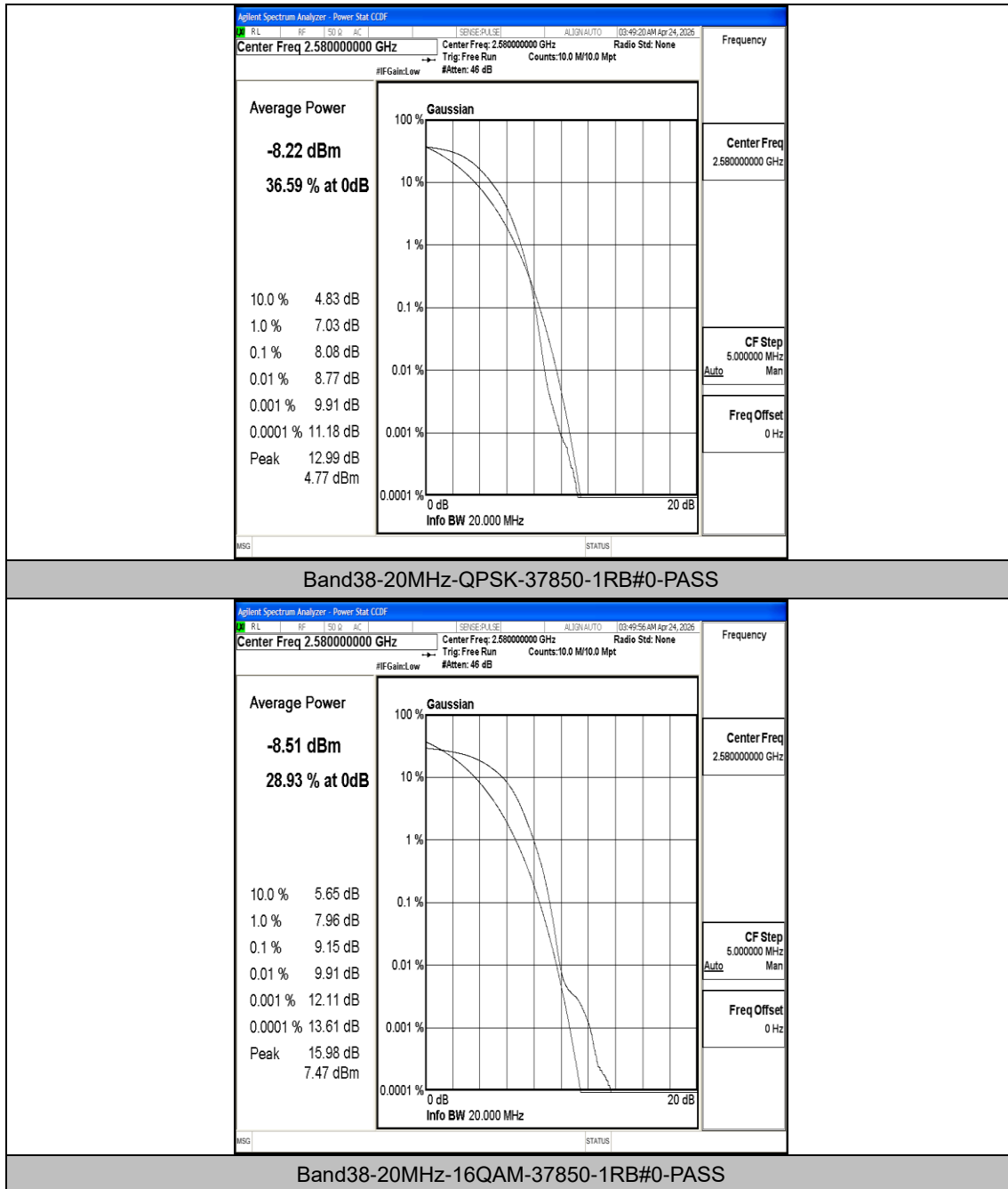


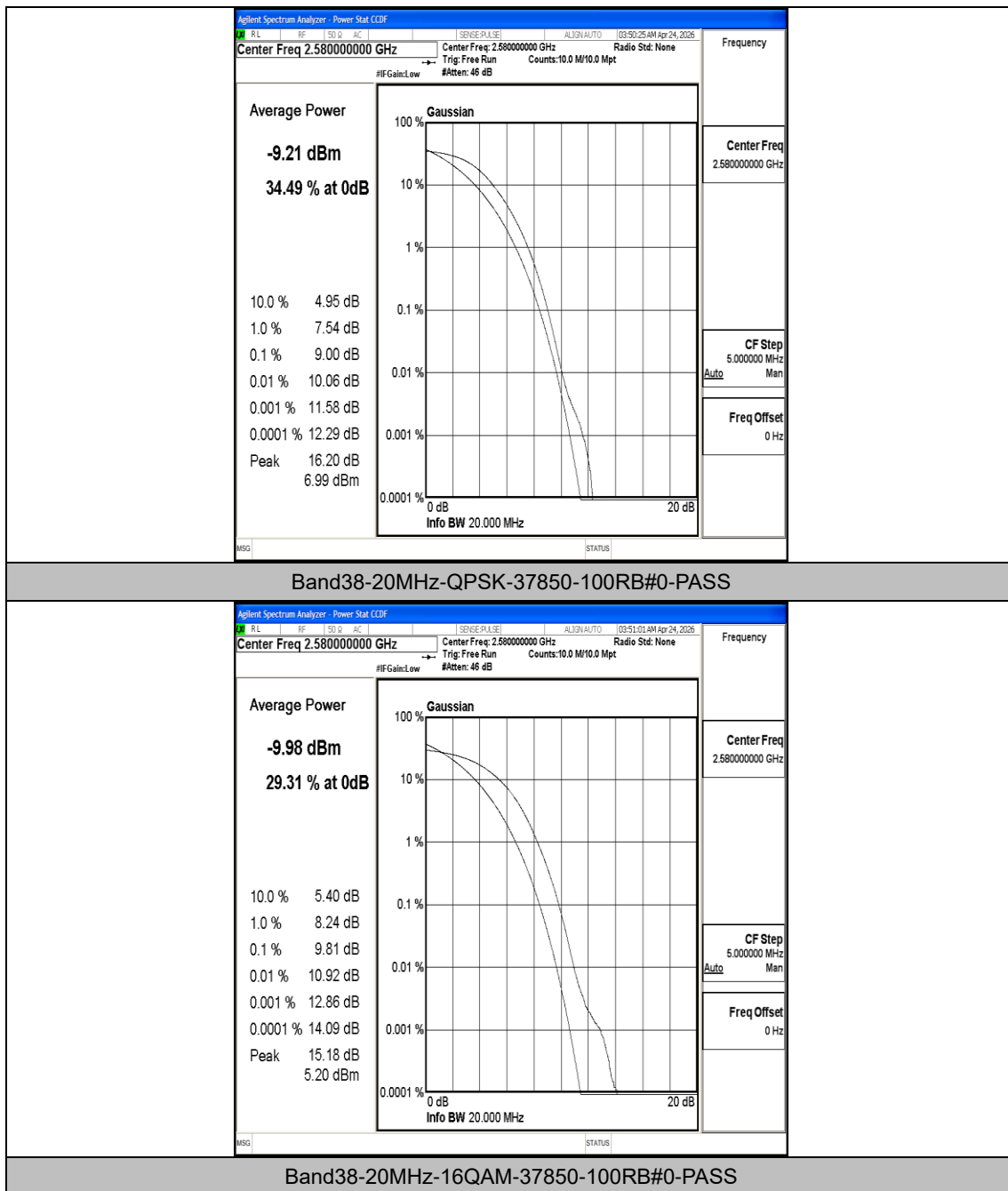


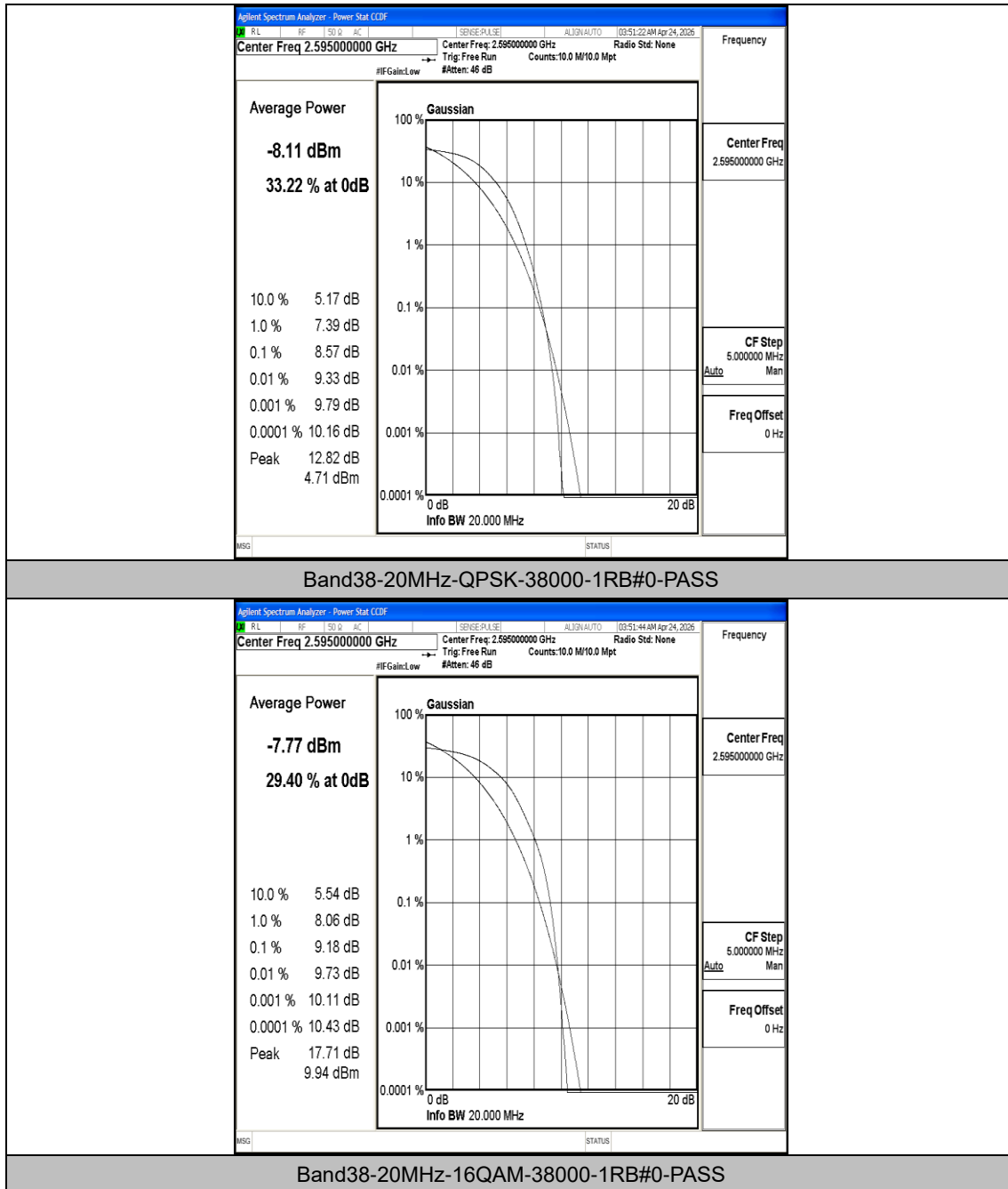


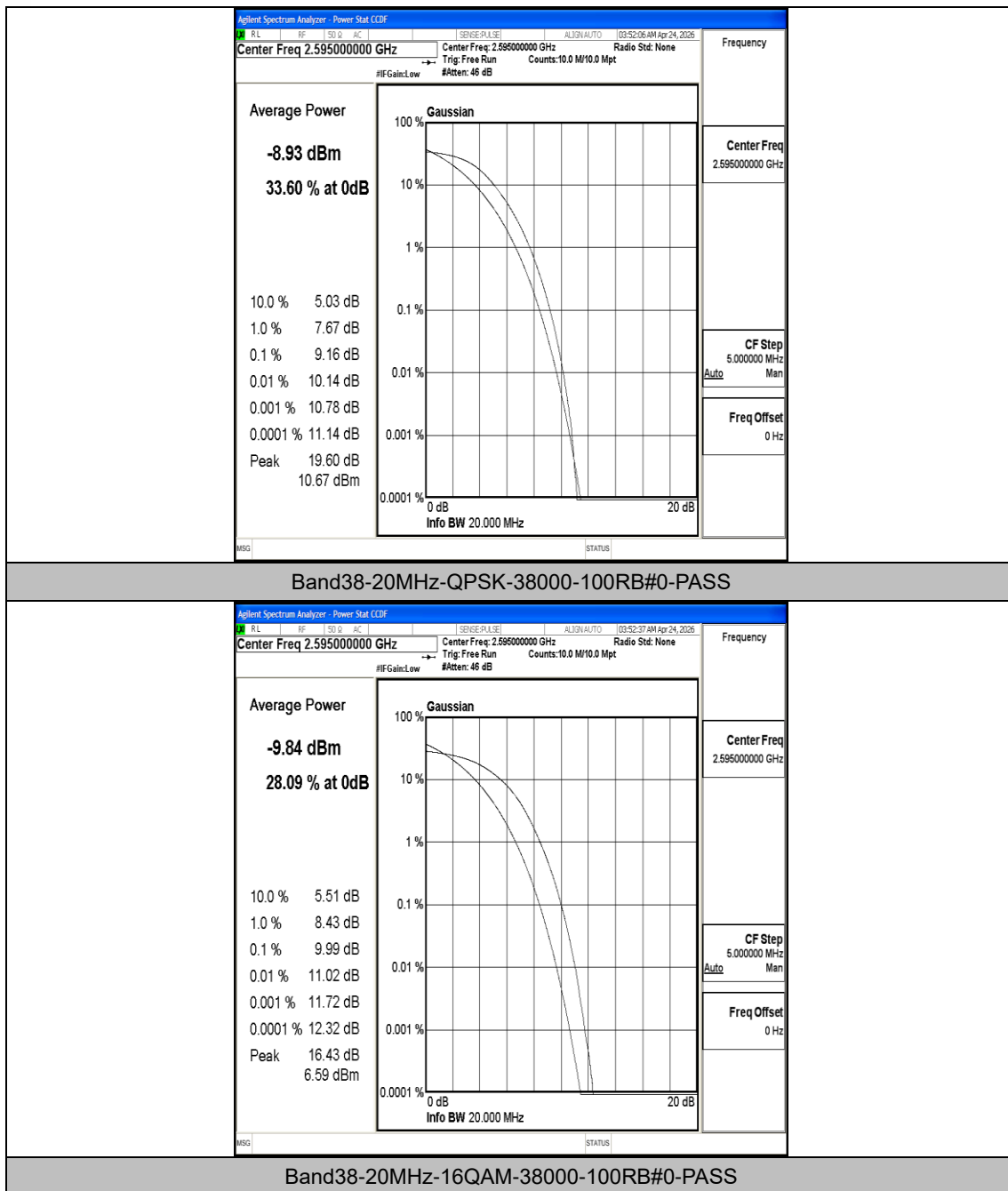


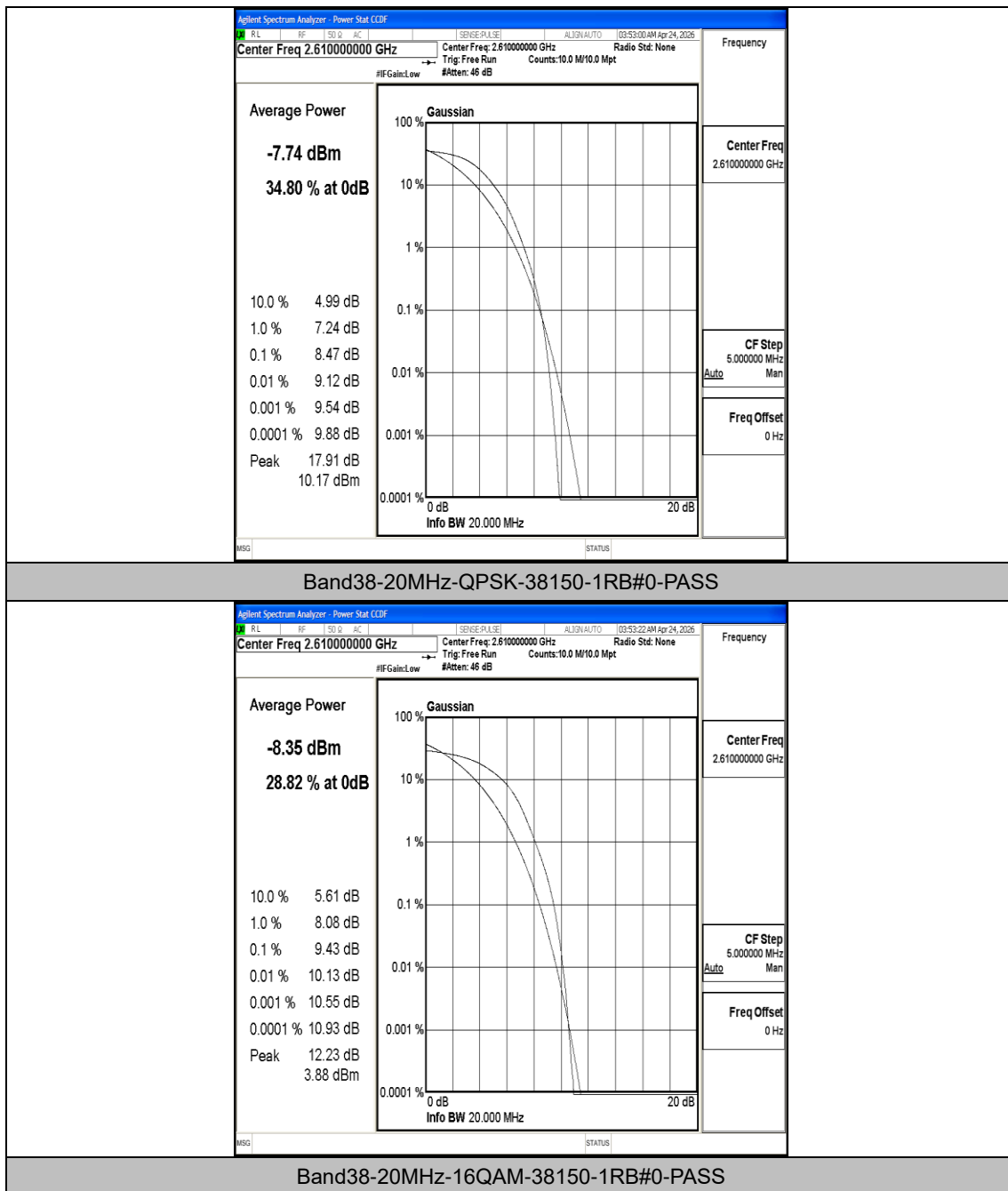


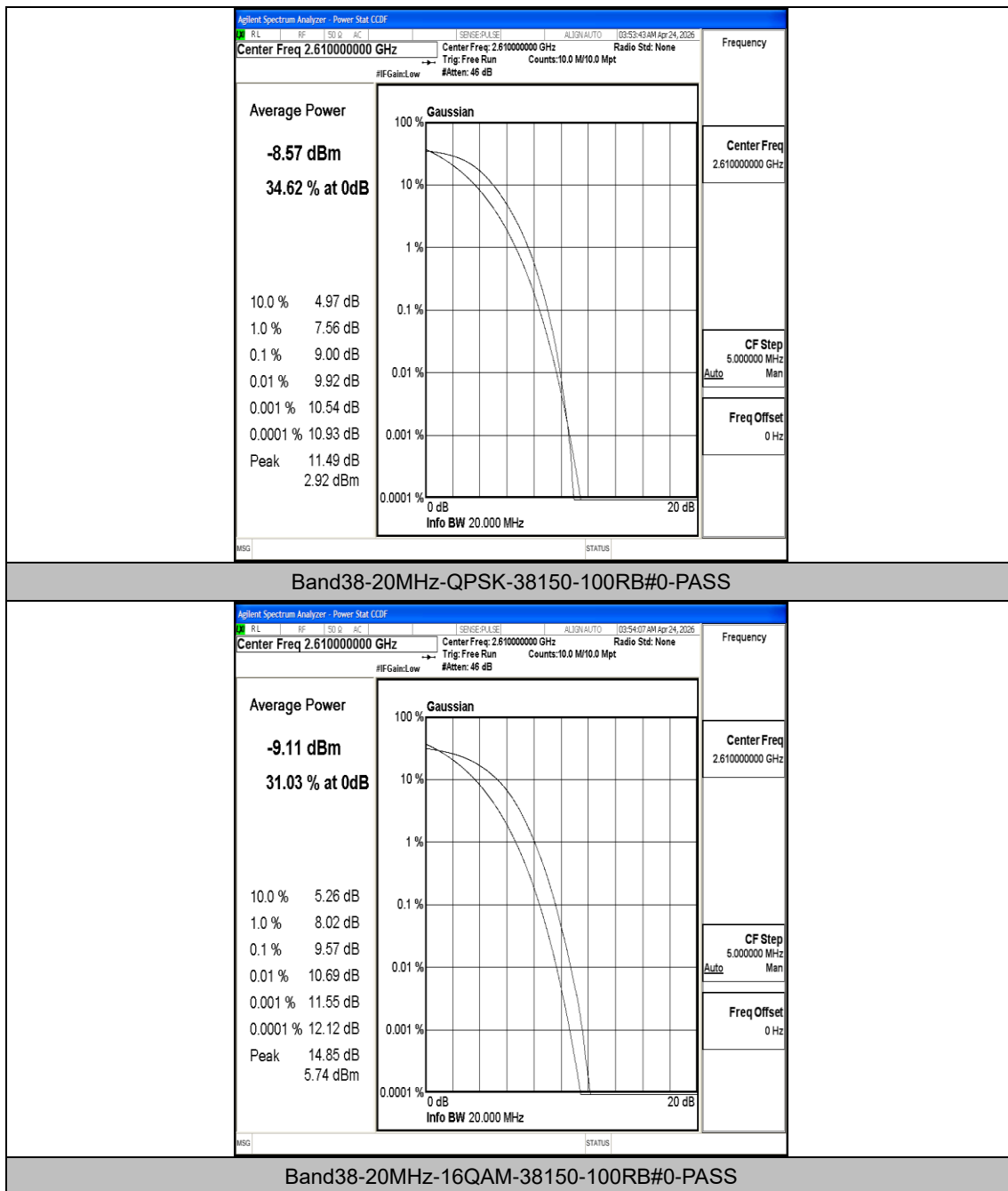










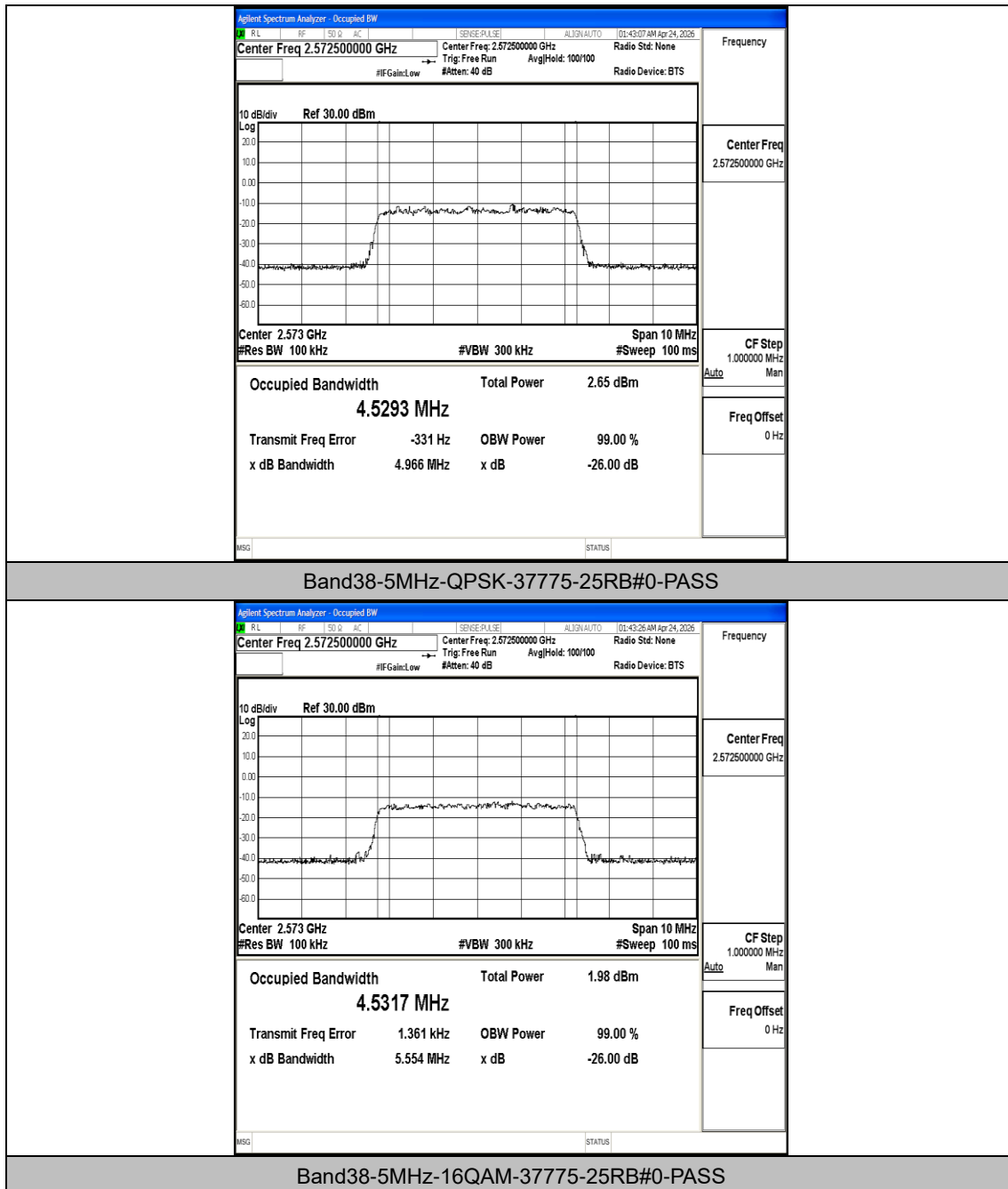


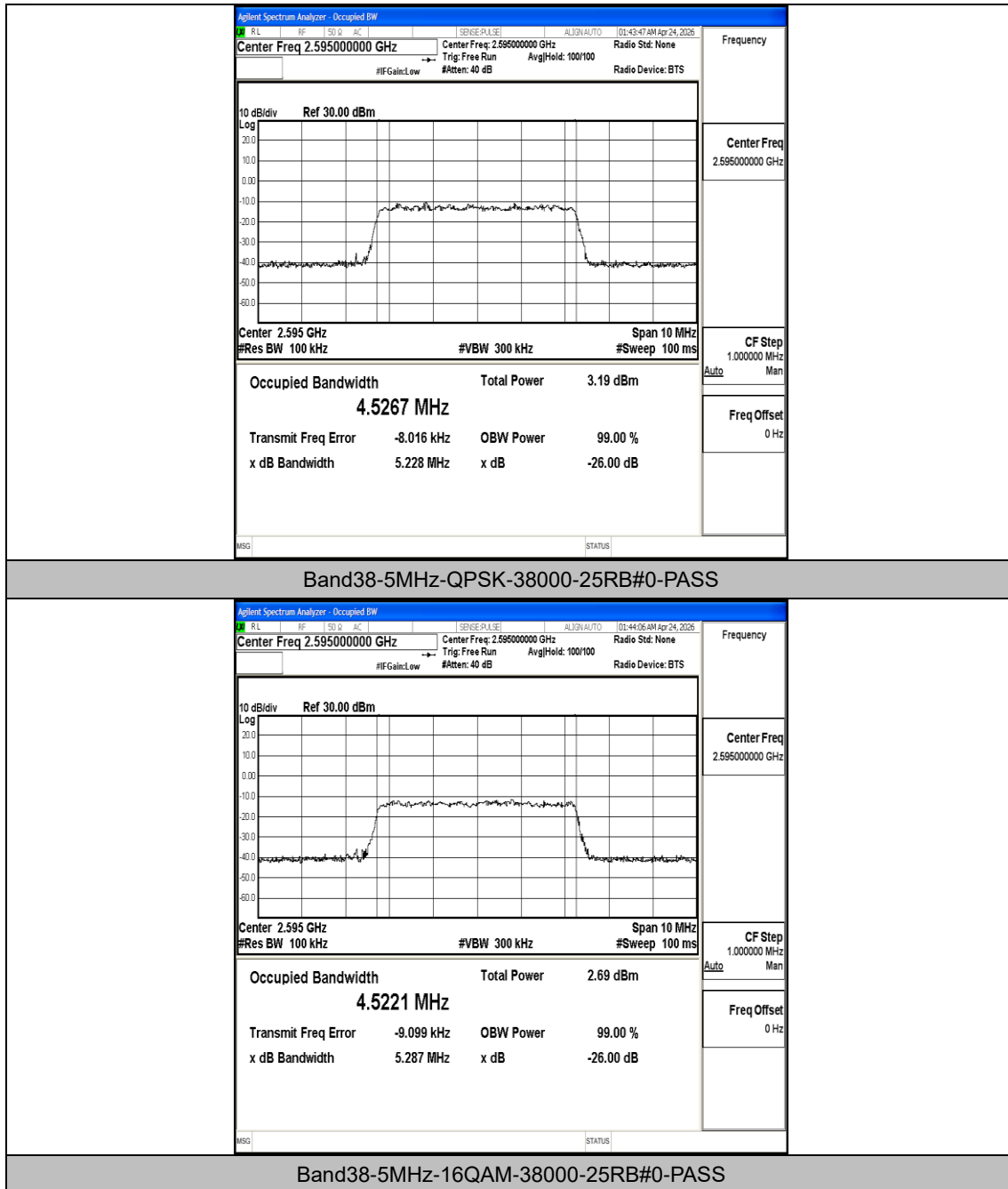
2 26dB Bandwidth and Occupied Bandwidth

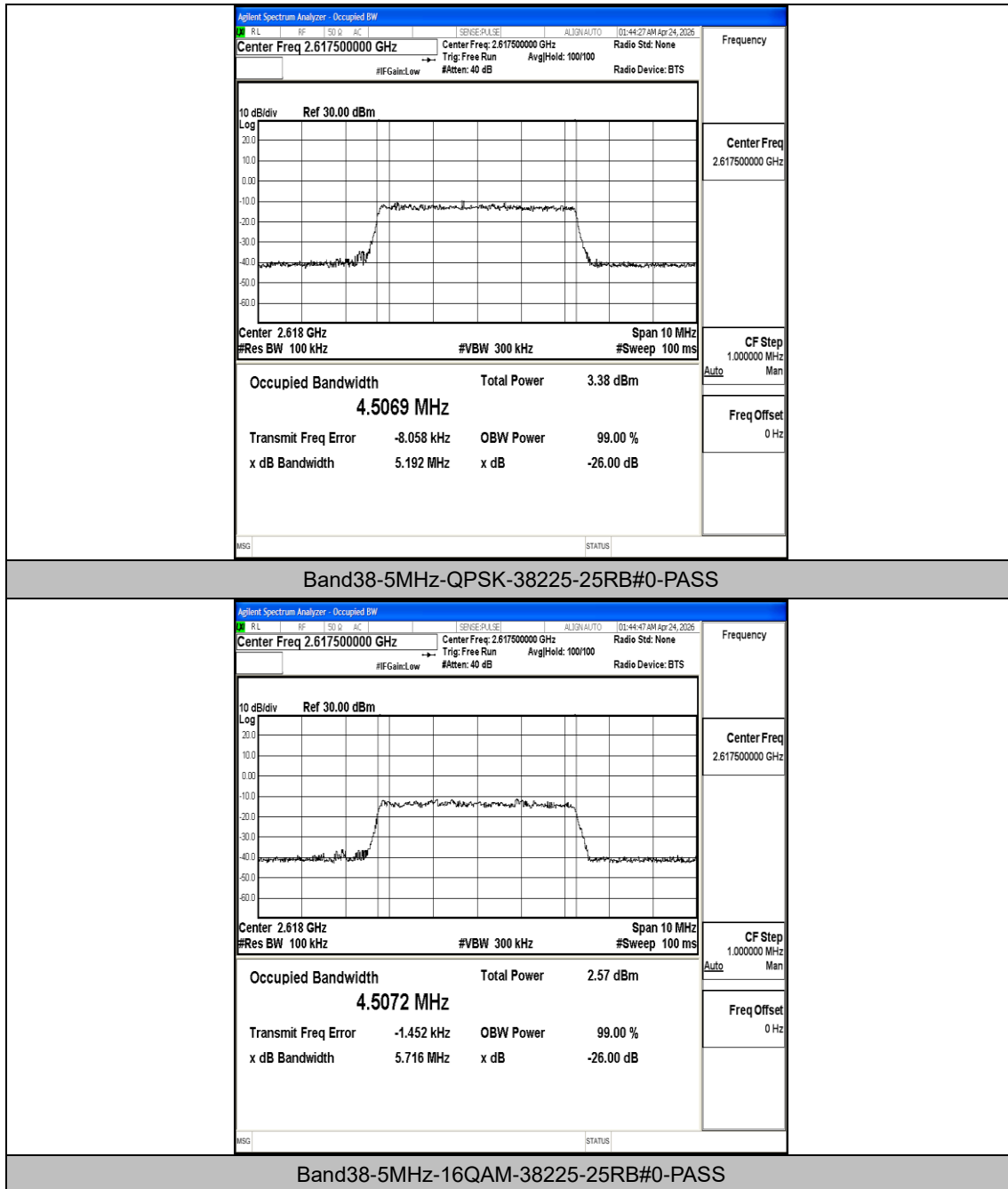
Test Result

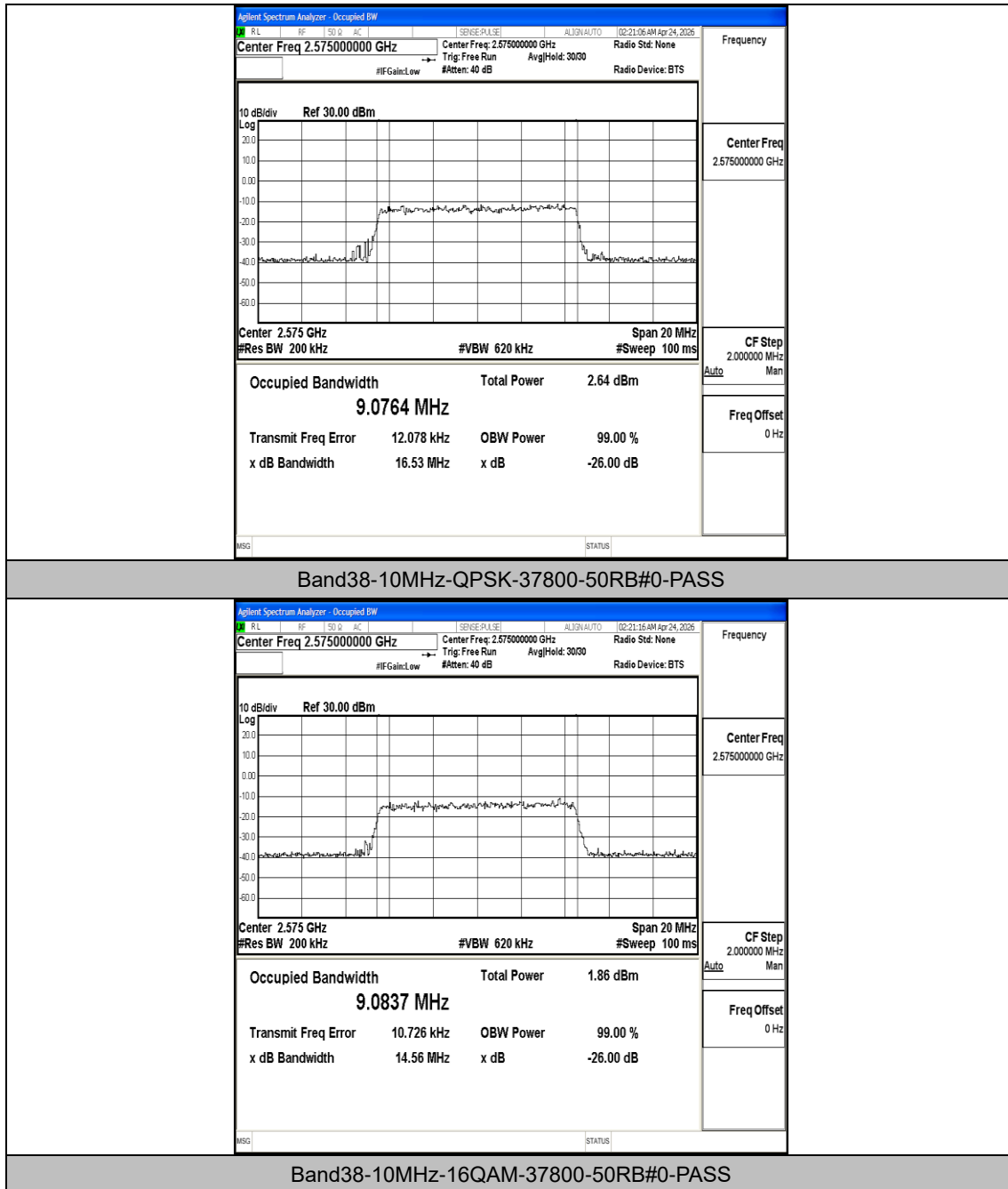
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5293	4.966	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5317	5.554	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5267	5.228	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5221	5.287	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.5069	5.192	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.5072	5.716	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.0764	16.53	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.0837	14.56	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.0517	10.72	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.0917	18.99	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0874	13.76	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.0669	19.77	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.803	29.99	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.820	30.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.672	29.94	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.721	30.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.670	30.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.727	30.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.915	40.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.843	40.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.403	40.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.508	40.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.301	40.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	18.430	40.00	PASS

Test Graphs

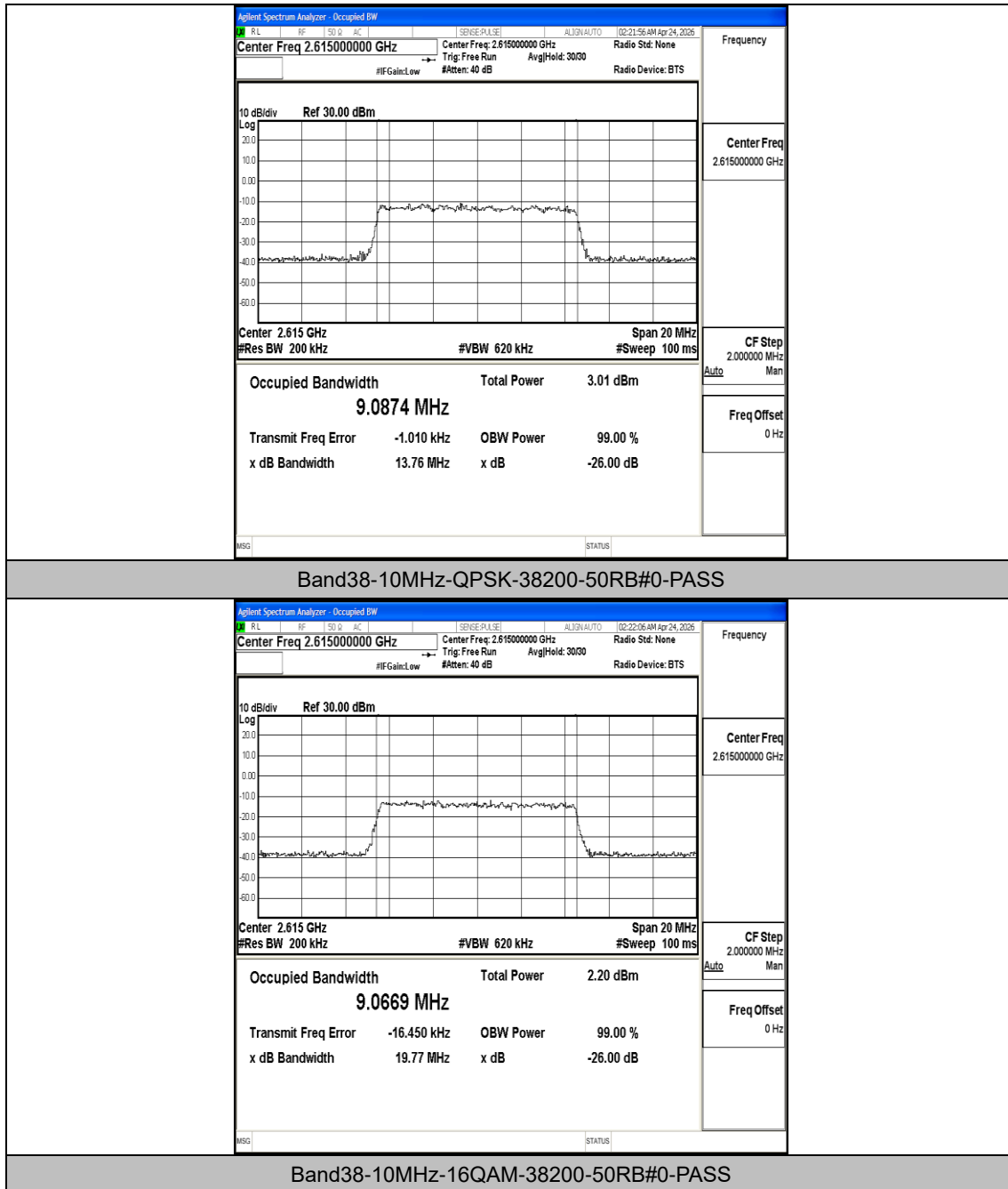




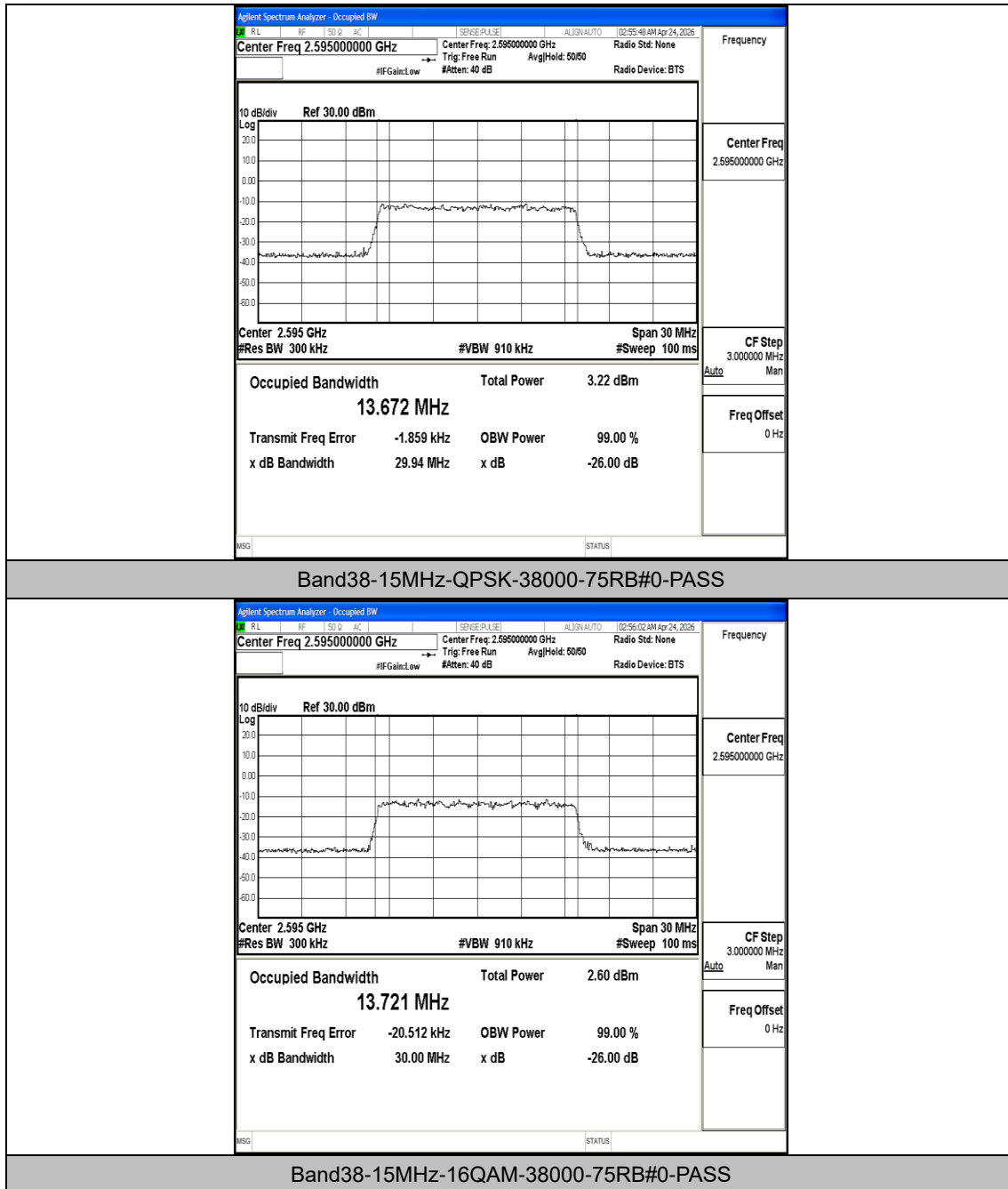


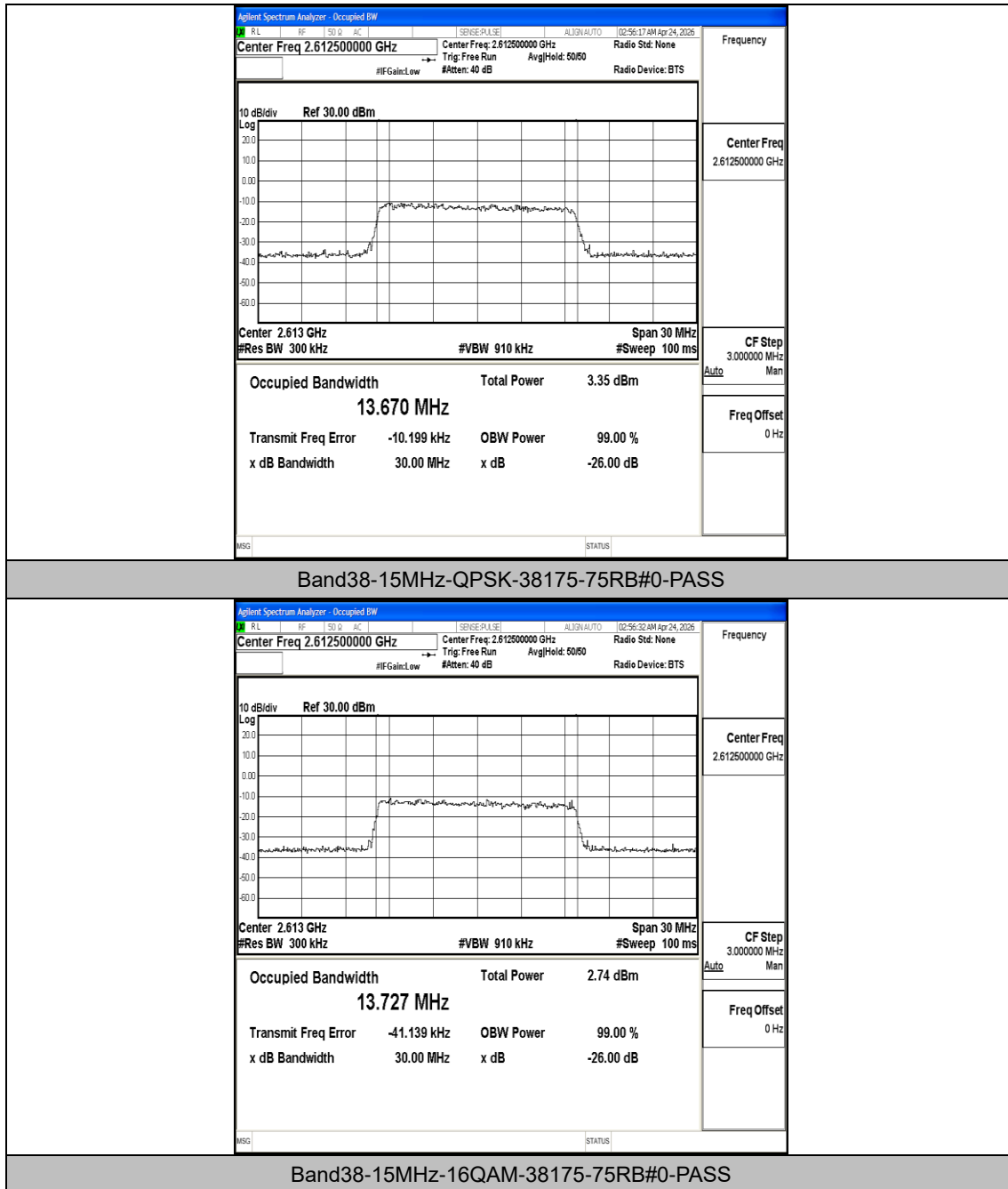


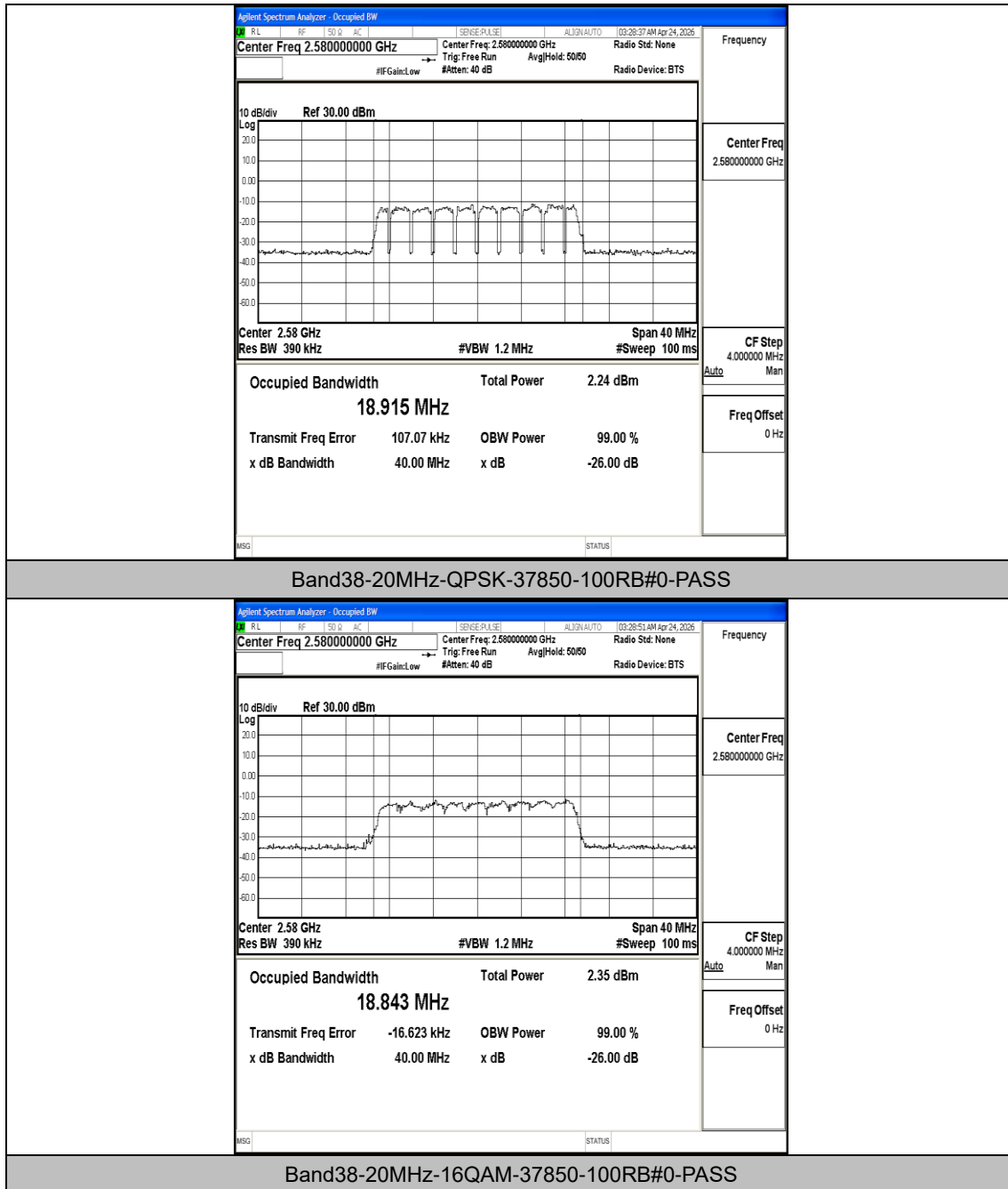


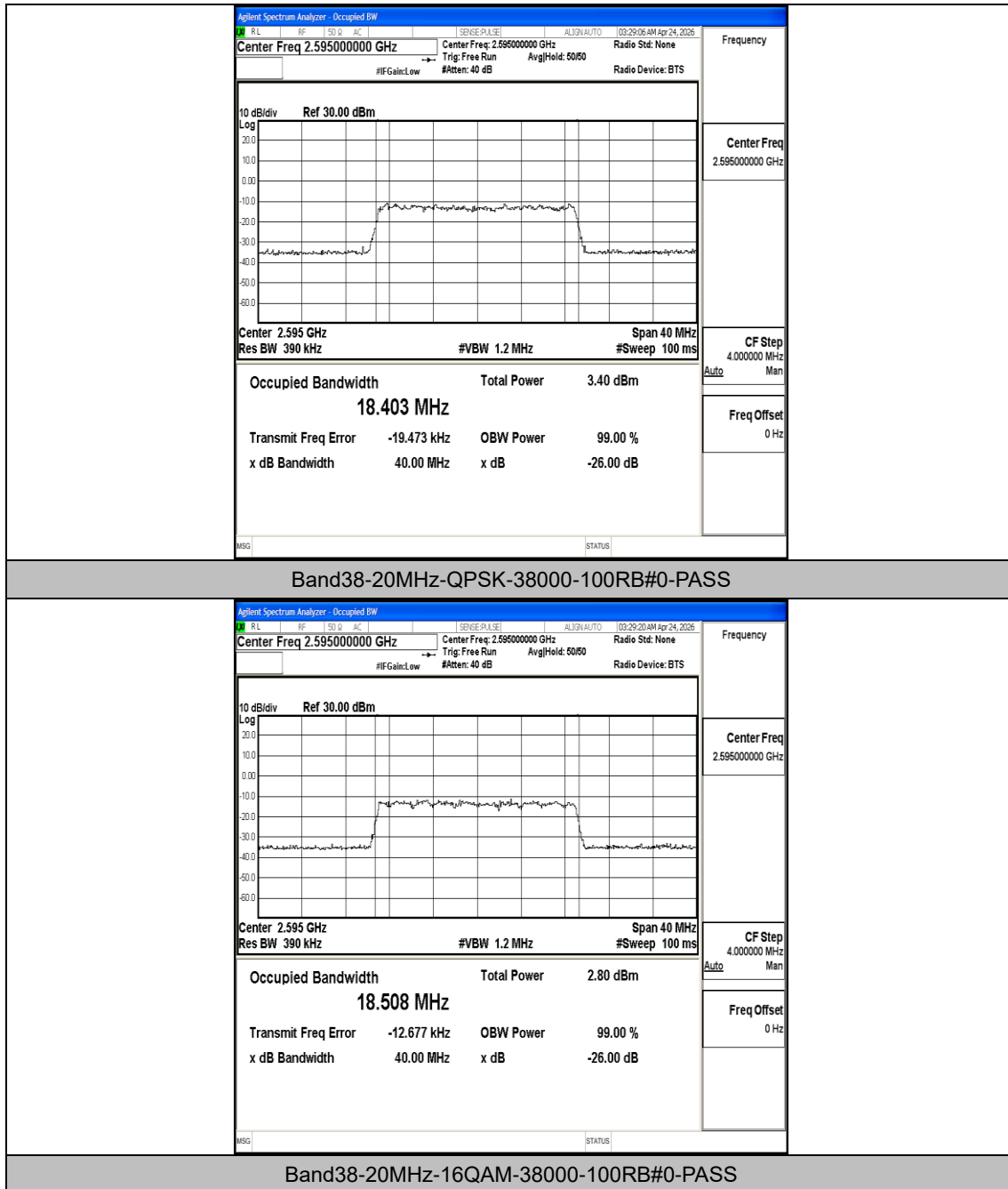


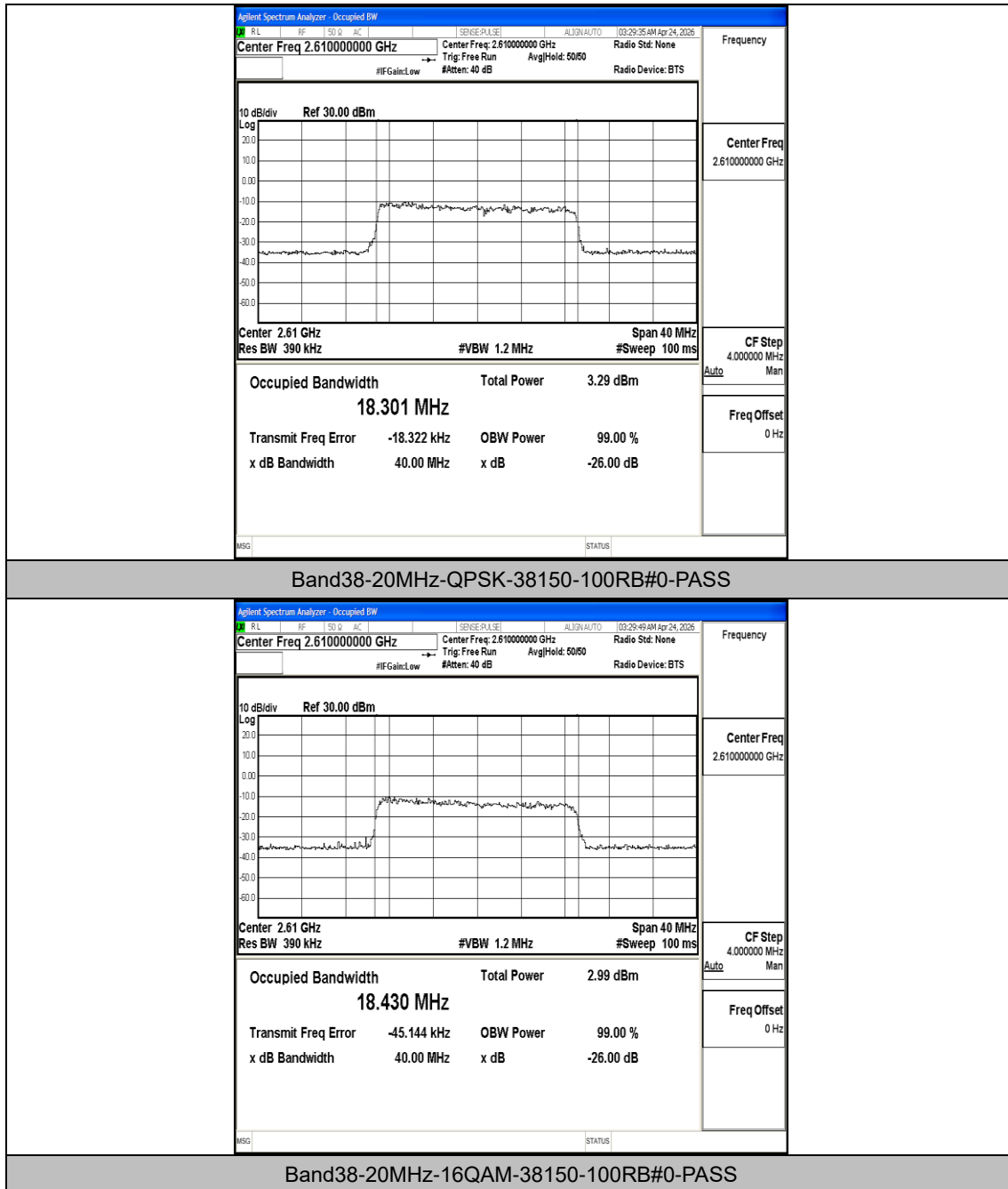










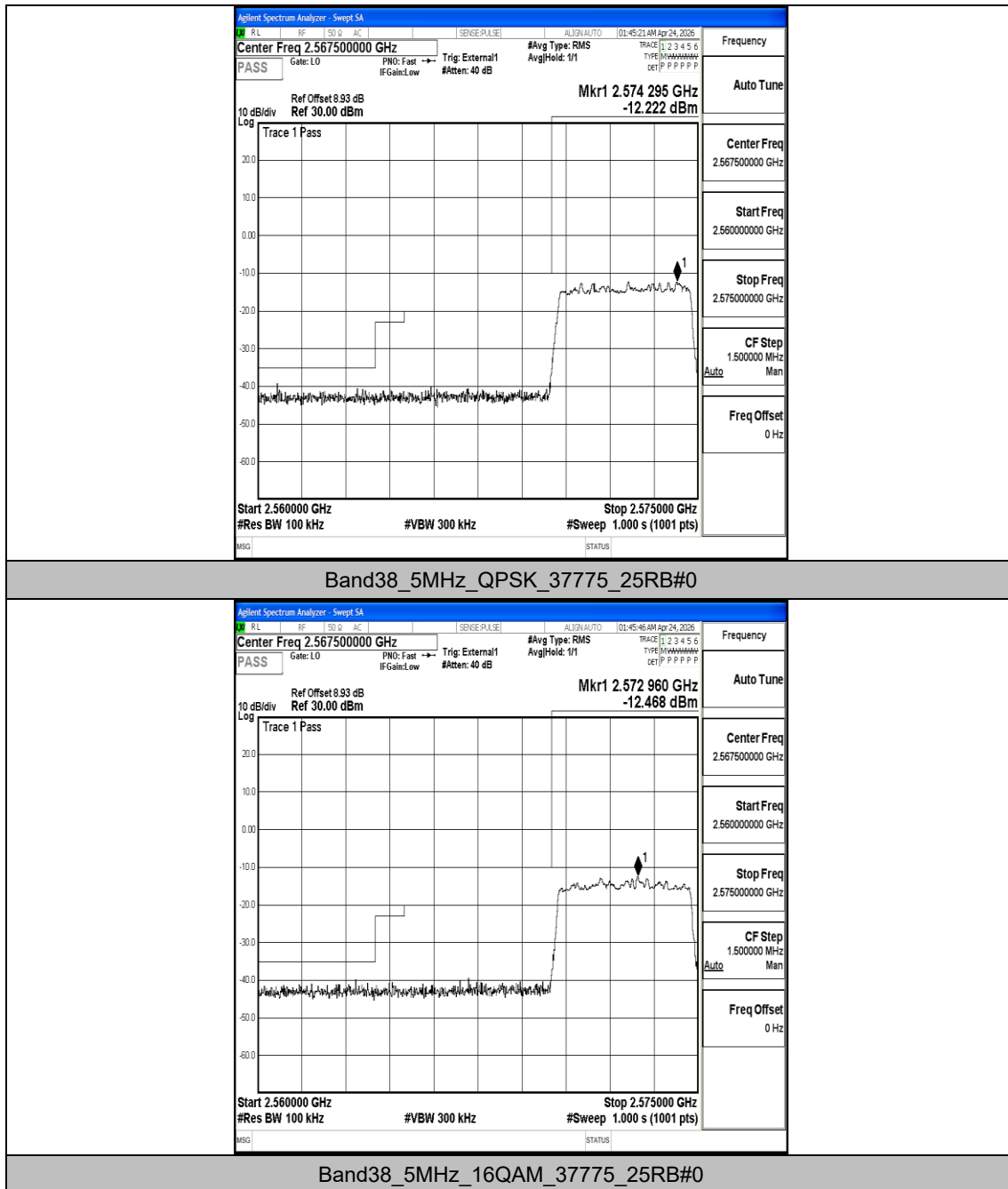


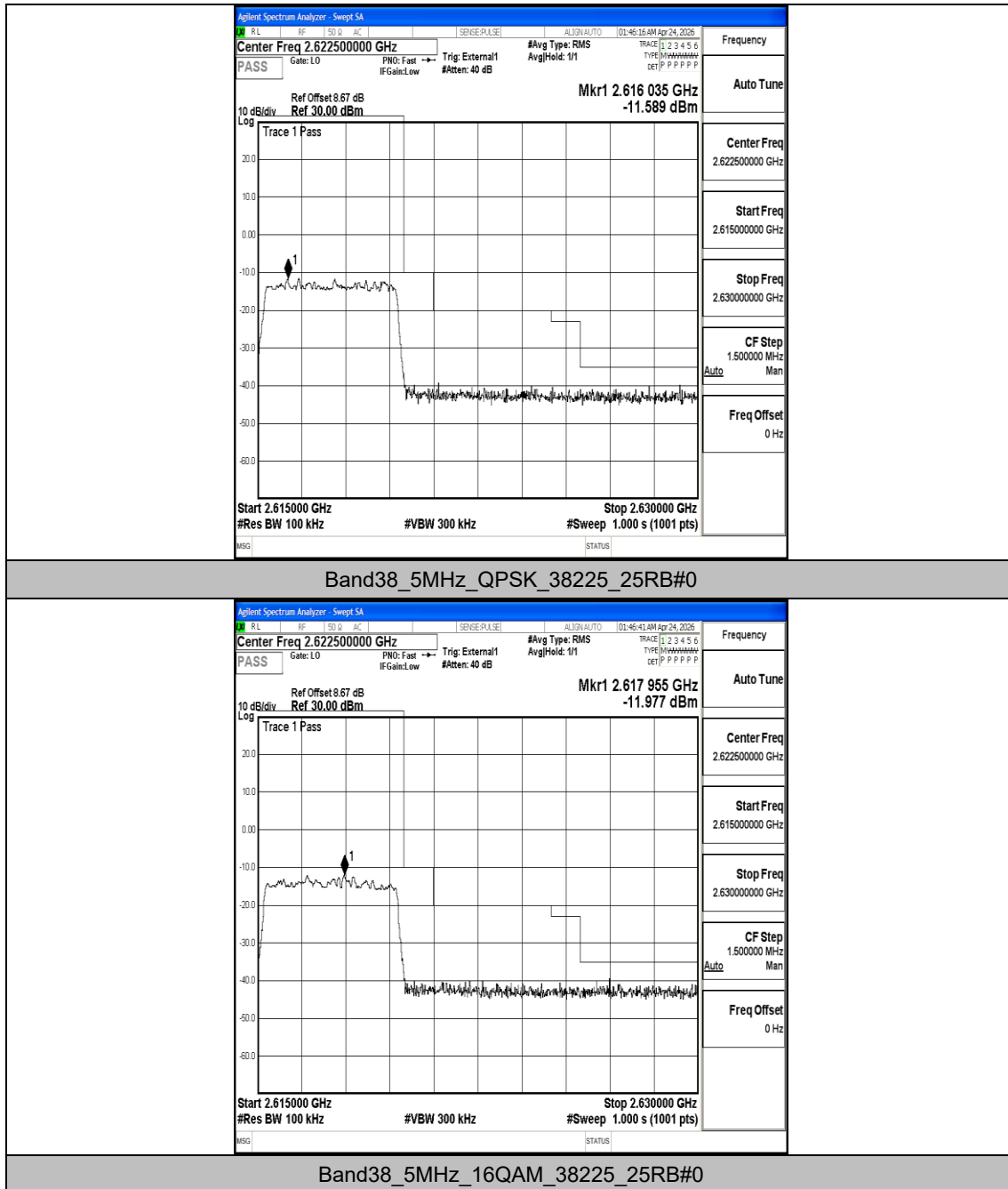
3 Band Edge

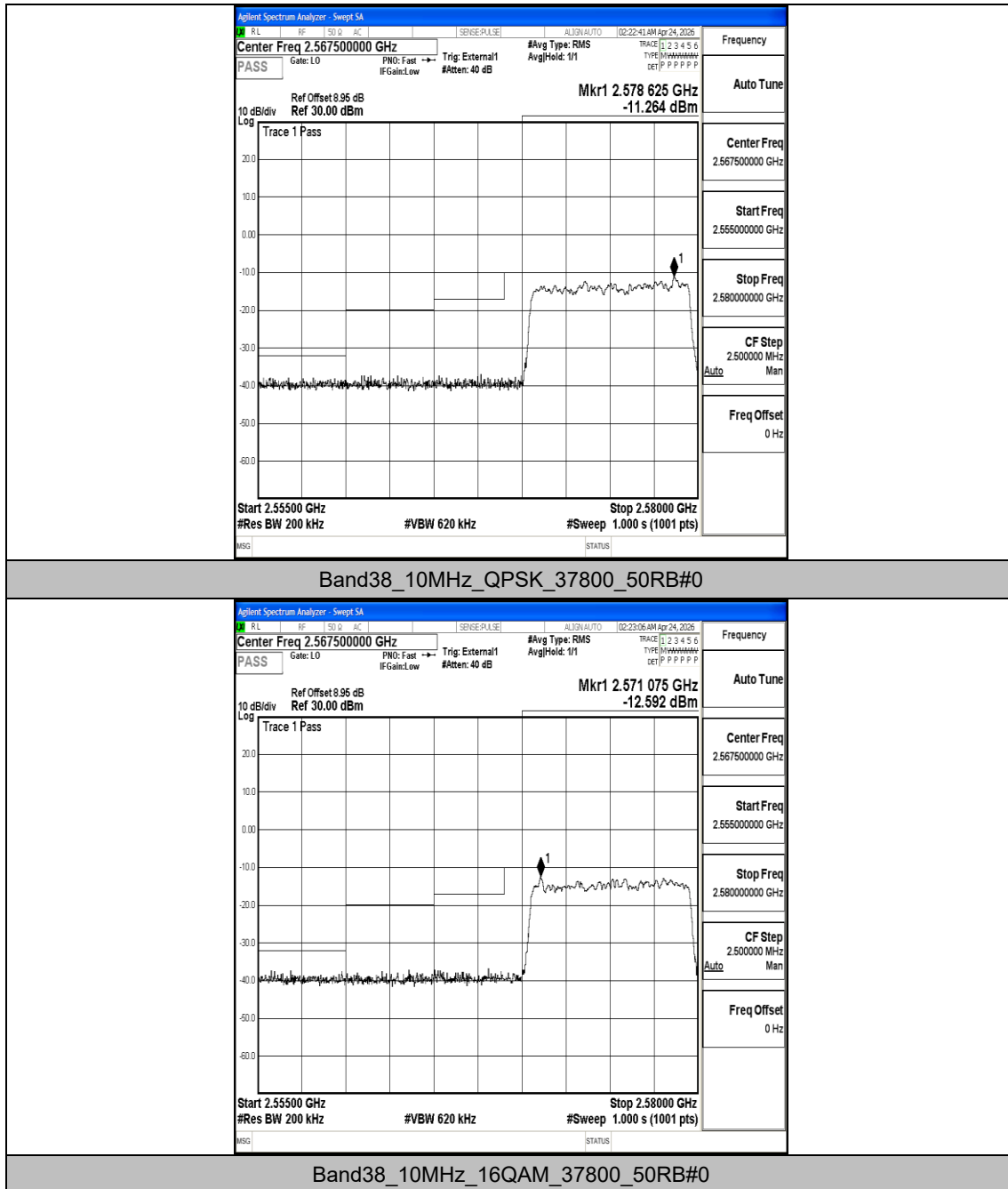
Test Result

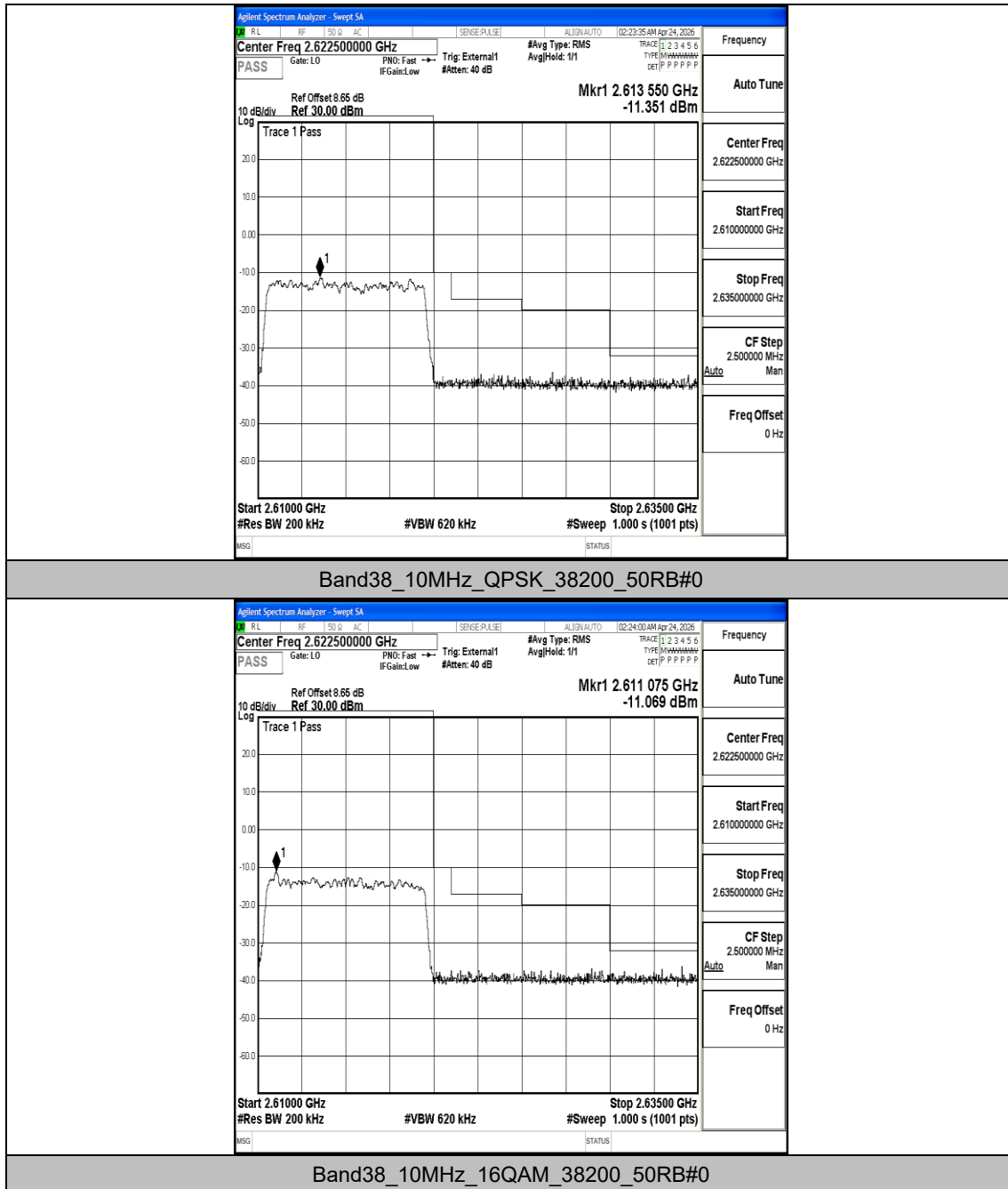
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	2560.68	-39.26	PASS
Band38	5MHz	16QAM	37775	25RB#0	2563.35	-39.76	PASS
Band38	5MHz	QPSK	38225	25RB#0	2629.37	-39.88	PASS
Band38	5MHz	16QAM	38225	25RB#0	2626.99	-39.39	PASS
Band38	10MHz	QPSK	37800	50RB#0	2556.78	-37.90	PASS
Band38	10MHz	16QAM	37800	50RB#0	2555.80	-37.27	PASS
Band38	10MHz	QPSK	38200	50RB#0	2634.45	-37.21	PASS
Band38	10MHz	16QAM	38200	50RB#0	2634.08	-36.29	PASS
Band38	15MHz	QPSK	37825	75RB#0	2551.82	-35.09	PASS
Band38	15MHz	16QAM	37825	75RB#0	2554.34	-35.05	PASS
Band38	15MHz	QPSK	38175	75RB#0	2635.80	-35.77	PASS
Band38	15MHz	16QAM	38175	75RB#0	2635.70	-35.52	PASS
Band38	20MHz	QPSK	37850	100RB#0	2548.33	-34.41	PASS
Band38	20MHz	16QAM	37850	100RB#0	2545.63	-34.21	PASS
Band38	20MHz	QPSK	38150	100RB#0	2642.66	-33.47	PASS
Band38	20MHz	16QAM	38150	100RB#0	2644.01	-34.37	PASS

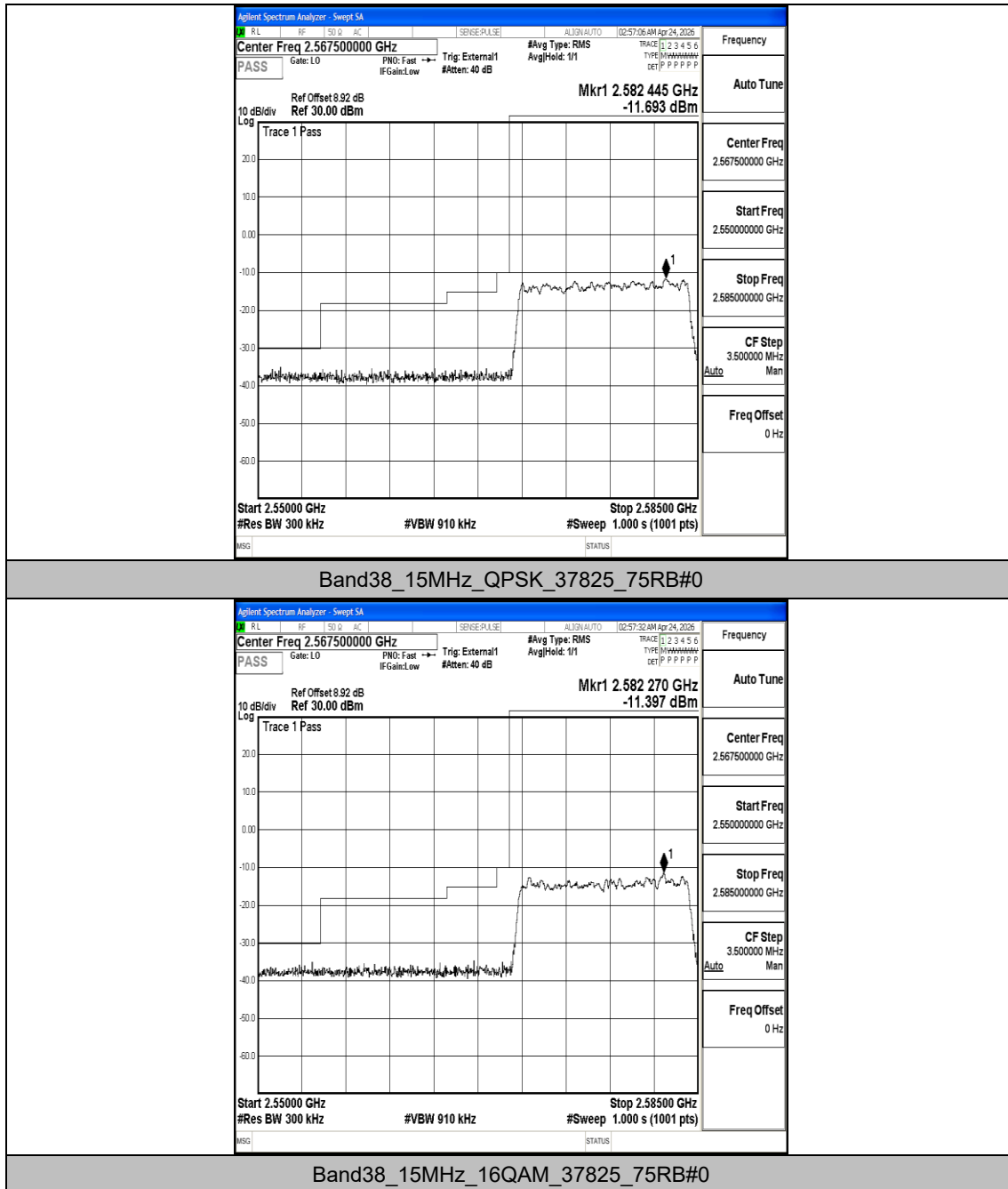
Test Graphs

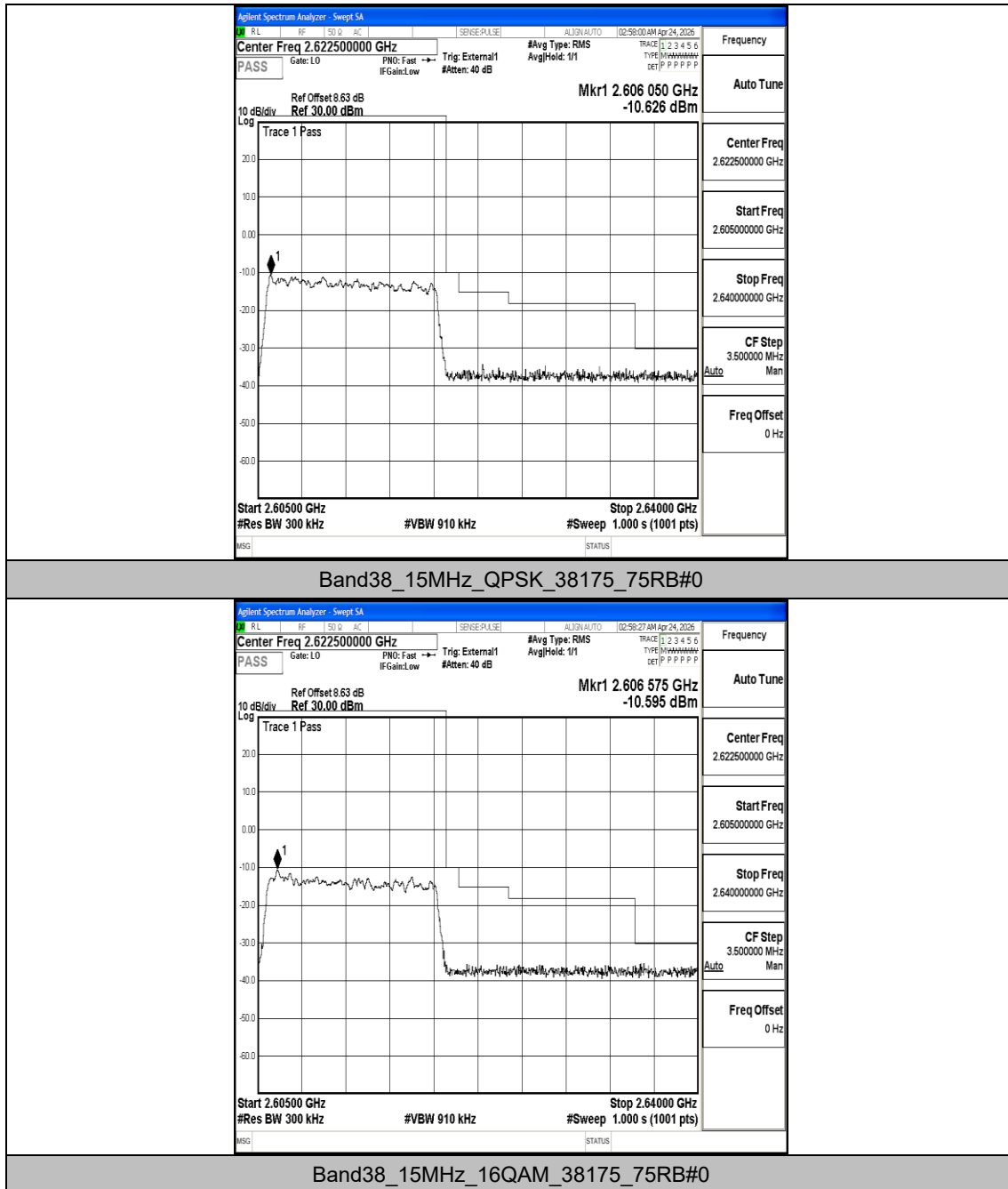


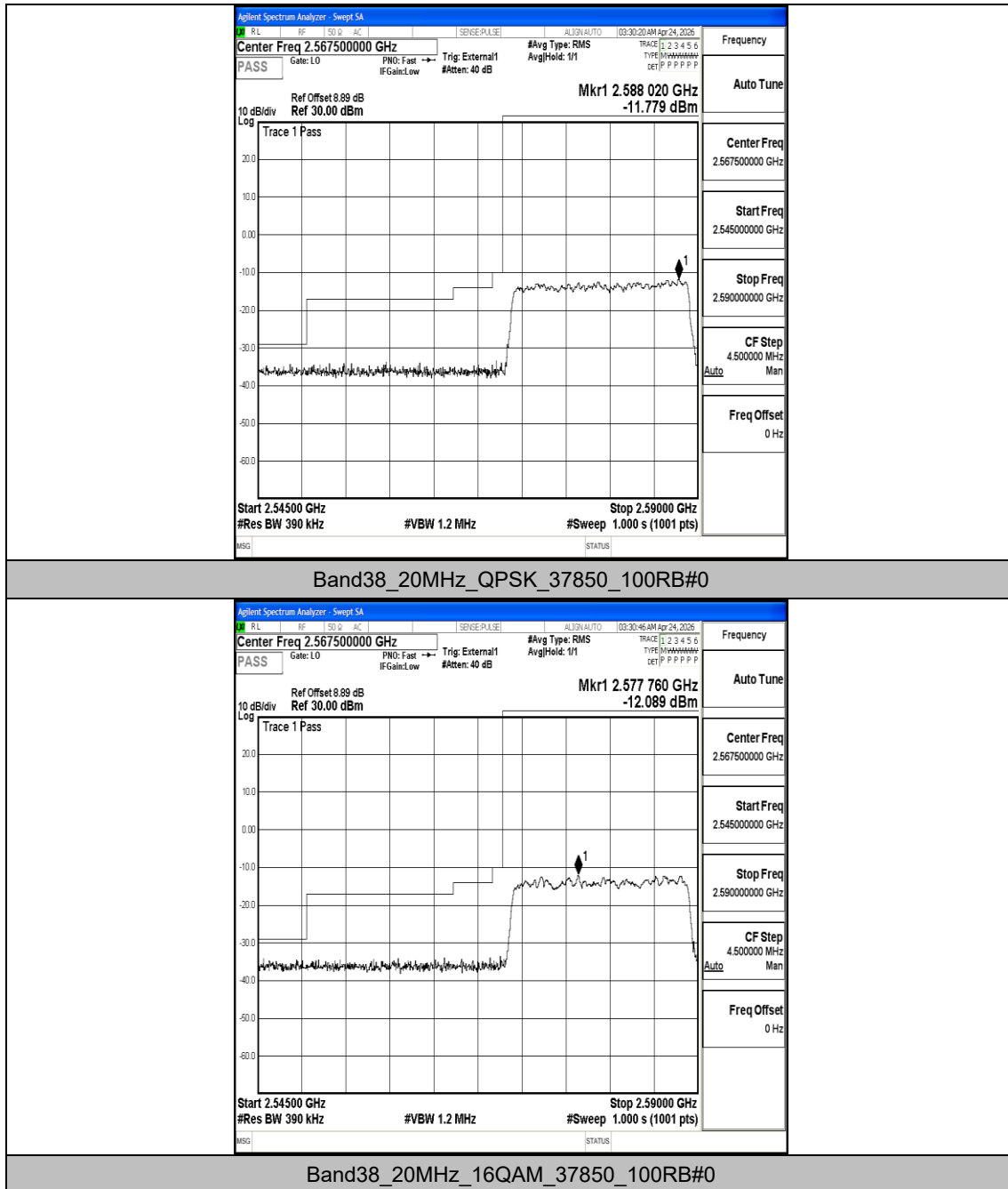


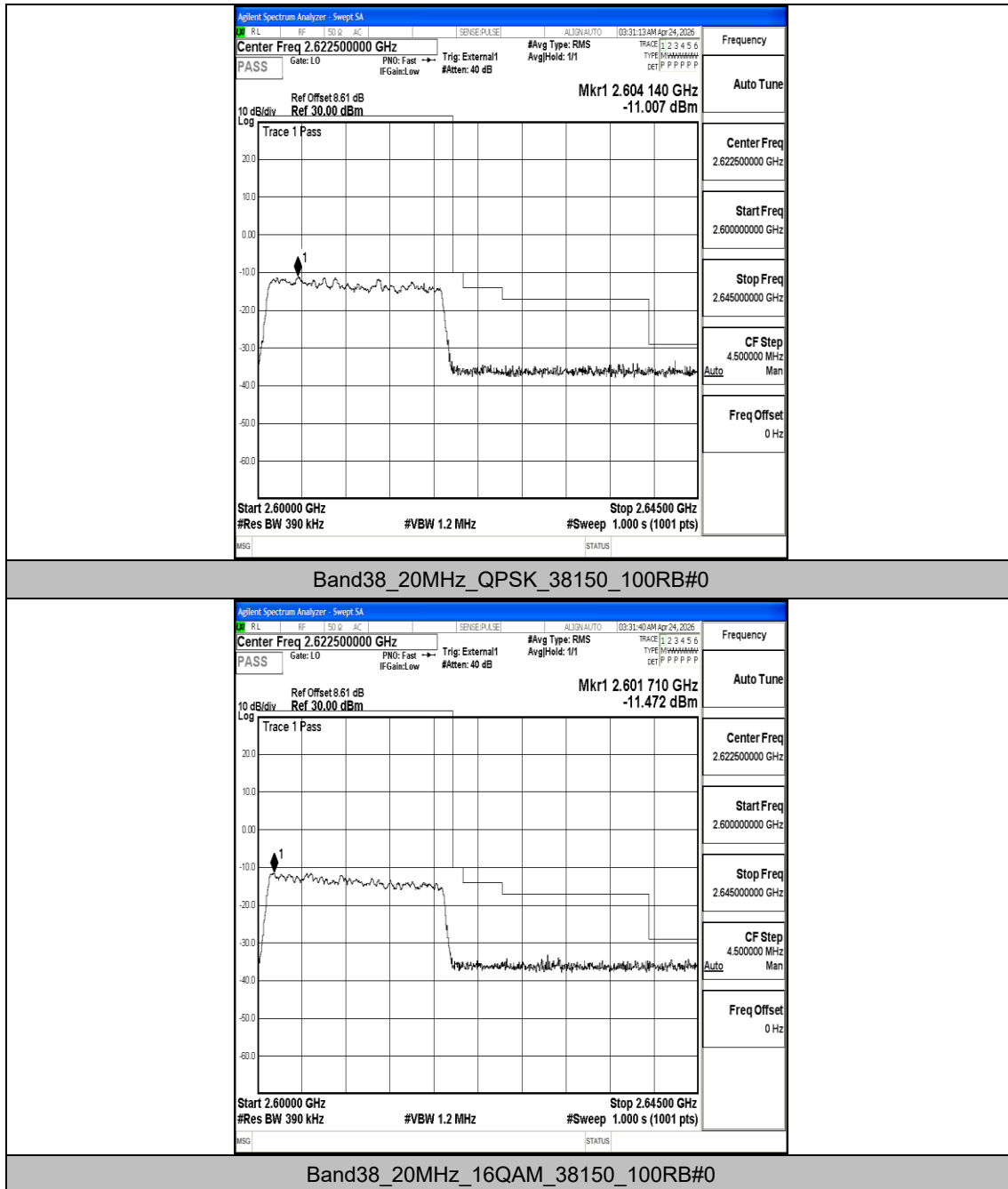












4 Conducted Spurious Emission

Test Result

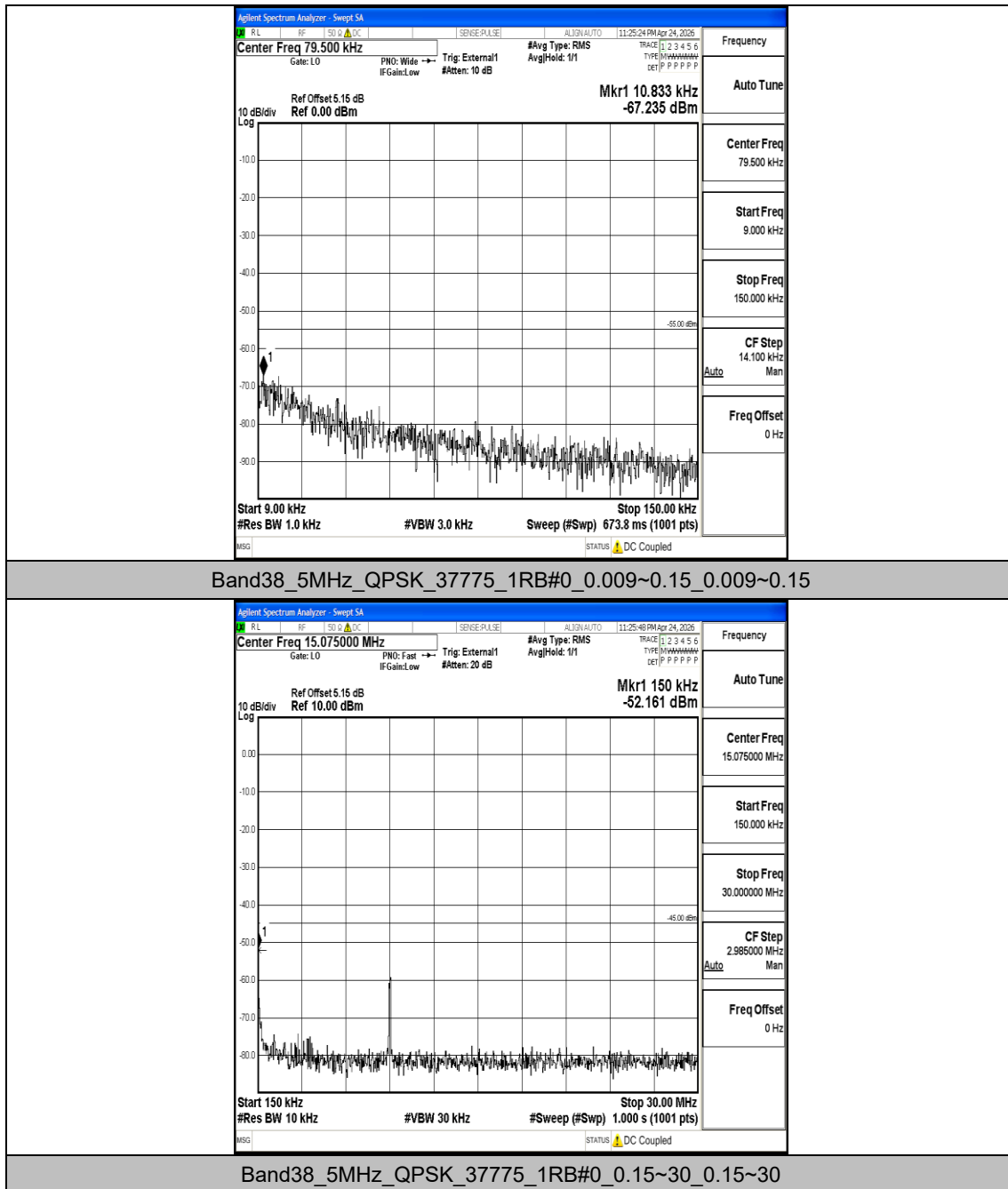
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	0.009~0.15	-67.24	PASS
Band38	5MHz	QPSK	37775	1RB#0	0.15~30	-52.16	PASS
Band38	5MHz	QPSK	37775	1RB#0	30~1000	-52.84	PASS
Band38	5MHz	QPSK	37775	1RB#0	1000~20000	-28.17	PASS
Band38	5MHz	QPSK	37775	1RB#0	20000~27000	-35.60	PASS
Band38	5MHz	16QAM	37775	1RB#0	0.009~0.15	-65.19	PASS
Band38	5MHz	16QAM	37775	1RB#0	0.15~30	-58.43	PASS
Band38	5MHz	16QAM	37775	1RB#0	30~1000	-52.57	PASS
Band38	5MHz	16QAM	37775	1RB#0	1000~20000	-27.48	PASS
Band38	5MHz	16QAM	37775	1RB#0	20000~27000	-34.55	PASS
Band38	5MHz	QPSK	38000	1RB#0	0.009~0.15	-67.14	PASS
Band38	5MHz	QPSK	38000	1RB#0	0.15~30	-55.81	PASS
Band38	5MHz	QPSK	38000	1RB#0	30~1000	-52.60	PASS
Band38	5MHz	QPSK	38000	1RB#0	1000~20000	-27.95	PASS
Band38	5MHz	QPSK	38000	1RB#0	20000~27000	-35.67	PASS
Band38	5MHz	16QAM	38000	1RB#0	1000~20000	-27.49	PASS
Band38	5MHz	16QAM	38000	1RB#0	20000~27000	-34.85	PASS
Band38	5MHz	QPSK	38225	1RB#0	0.009~0.15	-63.84	PASS
Band38	5MHz	QPSK	38225	1RB#0	0.15~30	-58.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	30~1000	-52.67	PASS
Band38	5MHz	QPSK	38225	1RB#0	1000~20000	-28.02	PASS
Band38	5MHz	QPSK	38225	1RB#0	20000~27000	-35.88	PASS
Band38	5MHz	16QAM	38225	1RB#0	0.009~0.15	-66.11	PASS
Band38	5MHz	16QAM	38225	1RB#0	0.15~30	-56.37	PASS
Band38	5MHz	16QAM	38225	1RB#0	30~1000	-53.22	PASS
Band38	5MHz	16QAM	38225	1RB#0	1000~20000	-27.42	PASS
Band38	5MHz	16QAM	38225	1RB#0	20000~27000	-35.70	PASS
Band38	10MHz	QPSK	37800	1RB#0	0.009~0.15	-66.21	PASS
Band38	10MHz	QPSK	37800	1RB#0	0.15~30	-56.01	PASS
Band38	10MHz	QPSK	37800	1RB#0	30~1000	-53.17	PASS
Band38	10MHz	QPSK	37800	1RB#0	1000~20000	-27.68	PASS
Band38	10MHz	QPSK	37800	1RB#0	20000~27000	-35.18	PASS
Band38	10MHz	16QAM	37800	1RB#0	0.009~0.15	-64.96	PASS
Band38	10MHz	16QAM	37800	1RB#0	0.15~30	-54.48	PASS
Band38	10MHz	16QAM	37800	1RB#0	30~1000	-52.87	PASS
Band38	10MHz	16QAM	37800	1RB#0	1000~20000	-28.41	PASS

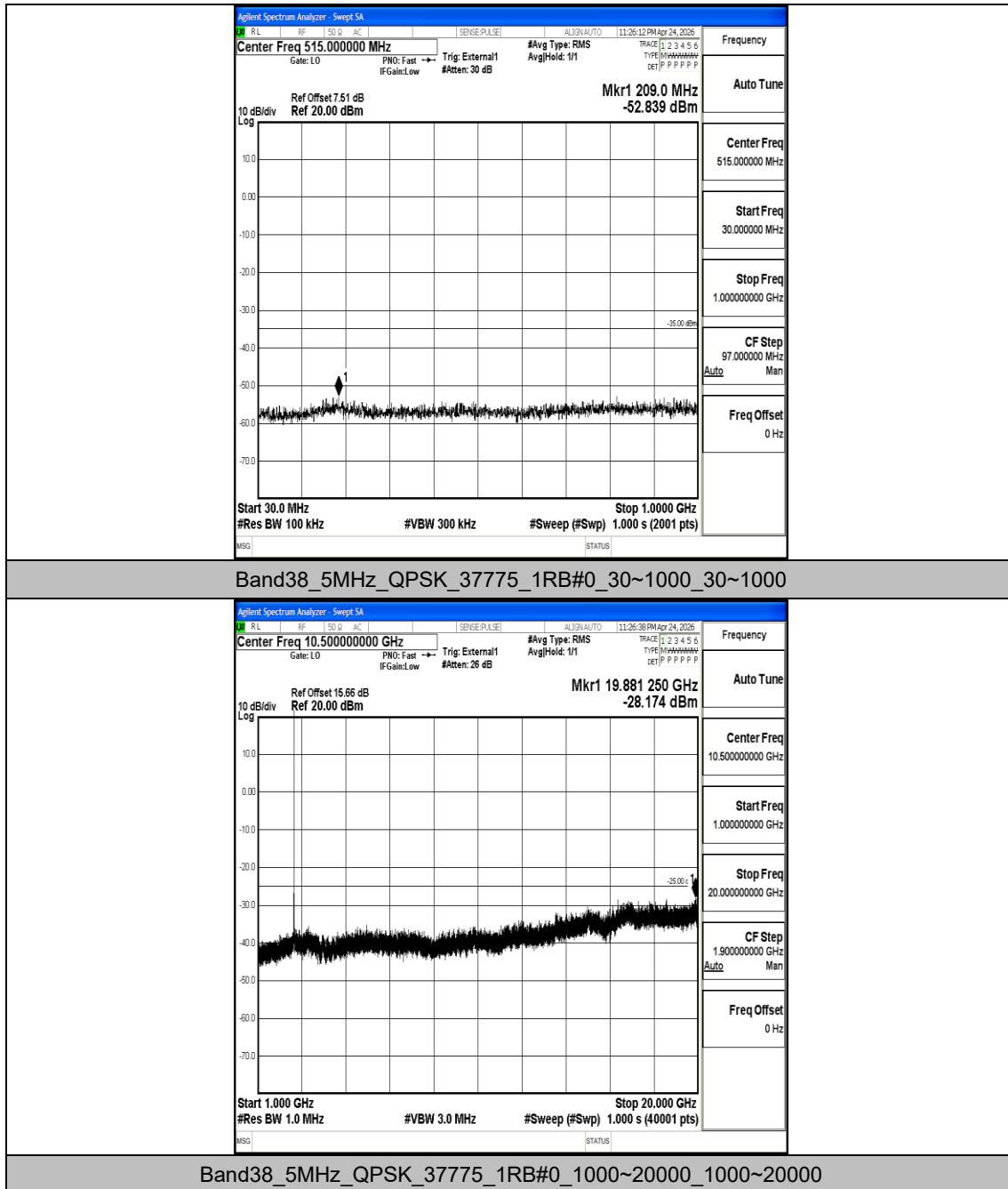


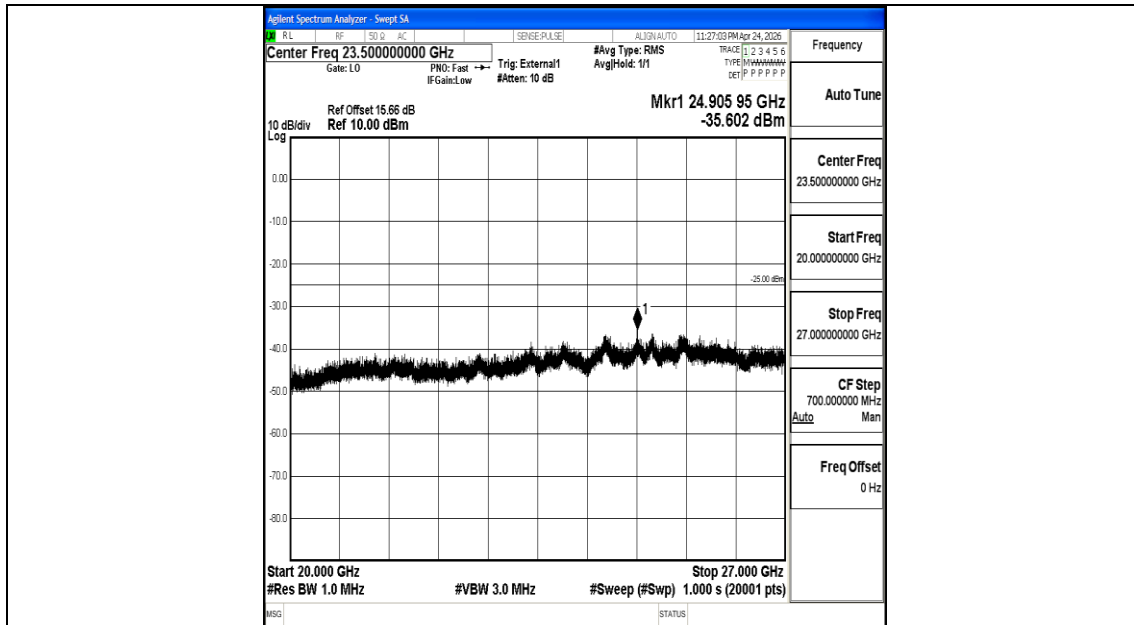
Band38	10MHz	16QAM	37800	1RB#0	20000~27000	-36.06	PASS
Band38	10MHz	QPSK	38000	1RB#0	0.009~0.15	-64.76	PASS
Band38	10MHz	QPSK	38000	1RB#0	0.15~30	-53.27	PASS
Band38	10MHz	QPSK	38000	1RB#0	30~1000	-52.63	PASS
Band38	10MHz	QPSK	38000	1RB#0	1000~20000	-27.93	PASS
Band38	10MHz	QPSK	38000	1RB#0	20000~27000	-36.01	PASS
Band38	10MHz	16QAM	38000	1RB#0	0.009~0.15	-65.03	PASS
Band38	10MHz	16QAM	38000	1RB#0	0.15~30	-54.62	PASS
Band38	10MHz	16QAM	38000	1RB#0	30~1000	-52.23	PASS
Band38	10MHz	16QAM	38000	1RB#0	1000~20000	-27.87	PASS
Band38	10MHz	16QAM	38000	1RB#0	20000~27000	-35.93	PASS
Band38	10MHz	QPSK	38200	1RB#0	0.009~0.15	-64.59	PASS
Band38	10MHz	QPSK	38200	1RB#0	0.15~30	-52.19	PASS
Band38	10MHz	QPSK	38200	1RB#0	30~1000	-52.18	PASS
Band38	10MHz	QPSK	38200	1RB#0	1000~20000	-28.19	PASS
Band38	10MHz	QPSK	38200	1RB#0	20000~27000	-35.98	PASS
Band38	10MHz	16QAM	38200	1RB#0	0.009~0.15	-65.53	PASS
Band38	10MHz	16QAM	38200	1RB#0	0.15~30	-53.66	PASS
Band38	10MHz	16QAM	38200	1RB#0	30~1000	-52.78	PASS
Band38	10MHz	16QAM	38200	1RB#0	1000~20000	-26.97	PASS
Band38	10MHz	16QAM	38200	1RB#0	20000~27000	-34.77	PASS
Band38	15MHz	QPSK	37825	1RB#0	0.009~0.15	-62.04	PASS
Band38	15MHz	QPSK	37825	1RB#0	0.15~30	-53.21	PASS
Band38	15MHz	QPSK	37825	1RB#0	30~1000	-51.88	PASS
Band38	15MHz	QPSK	37825	1RB#0	1000~20000	-28.39	PASS
Band38	15MHz	QPSK	37825	1RB#0	20000~27000	-36.07	PASS
Band38	15MHz	16QAM	37825	1RB#0	0.009~0.15	-65.29	PASS
Band38	15MHz	16QAM	37825	1RB#0	0.15~30	-54.11	PASS
Band38	15MHz	16QAM	37825	1RB#0	30~1000	-52.70	PASS
Band38	15MHz	16QAM	37825	1RB#0	1000~20000	-27.46	PASS
Band38	15MHz	16QAM	37825	1RB#0	20000~27000	-35.71	PASS
Band38	15MHz	QPSK	38000	1RB#0	0.009~0.15	-65.93	PASS
Band38	15MHz	QPSK	38000	1RB#0	0.15~30	-54.71	PASS
Band38	15MHz	QPSK	38000	1RB#0	30~1000	-53.04	PASS
Band38	15MHz	QPSK	38000	1RB#0	1000~20000	-28.44	PASS
Band38	15MHz	QPSK	38000	1RB#0	20000~27000	-36.36	PASS
Band38	15MHz	16QAM	38000	1RB#0	0.009~0.15	-63.91	PASS
Band38	15MHz	16QAM	38000	1RB#0	0.15~30	-56.16	PASS
Band38	15MHz	16QAM	38000	1RB#0	30~1000	-52.13	PASS
Band38	15MHz	16QAM	38000	1RB#0	1000~20000	-27.37	PASS
Band38	15MHz	16QAM	38000	1RB#0	20000~27000	-36.02	PASS
Band38	15MHz	QPSK	38175	1RB#0	0.009~0.15	-63.48	PASS
Band38	15MHz	QPSK	38175	1RB#0	0.15~30	-55.77	PASS

Band38	15MHz	QPSK	38175	1RB#0	30~1000	-52.80	PASS
Band38	15MHz	QPSK	38175	1RB#0	1000~20000	-28.48	PASS
Band38	15MHz	QPSK	38175	1RB#0	20000~27000	-35.86	PASS
Band38	15MHz	16QAM	38175	1RB#0	0.009~0.15	-65.27	PASS
Band38	15MHz	16QAM	38175	1RB#0	0.15~30	-55.45	PASS
Band38	15MHz	16QAM	38175	1RB#0	30~1000	-51.86	PASS
Band38	15MHz	16QAM	38175	1RB#0	1000~20000	-28.48	PASS
Band38	15MHz	16QAM	38175	1RB#0	20000~27000	-35.55	PASS
Band38	20MHz	QPSK	37850	1RB#0	0.009~0.15	-66.10	PASS
Band38	20MHz	QPSK	37850	1RB#0	0.15~30	-53.29	PASS
Band38	20MHz	QPSK	37850	1RB#0	30~1000	-52.70	PASS
Band38	20MHz	QPSK	37850	1RB#0	1000~20000	-28.21	PASS
Band38	20MHz	QPSK	37850	1RB#0	20000~27000	-36.10	PASS
Band38	20MHz	16QAM	37850	1RB#0	0.009~0.15	-66.71	PASS
Band38	20MHz	16QAM	37850	1RB#0	0.15~30	-53.67	PASS
Band38	20MHz	16QAM	37850	1RB#0	30~1000	-52.78	PASS
Band38	20MHz	16QAM	37850	1RB#0	1000~20000	-27.39	PASS
Band38	20MHz	16QAM	37850	1RB#0	20000~27000	-36.65	PASS
Band38	20MHz	QPSK	38000	1RB#0	0.009~0.15	-65.88	PASS
Band38	20MHz	QPSK	38000	1RB#0	0.15~30	-55.58	PASS
Band38	20MHz	QPSK	38000	1RB#0	30~1000	-52.39	PASS
Band38	20MHz	QPSK	38000	1RB#0	1000~20000	-27.71	PASS
Band38	20MHz	QPSK	38000	1RB#0	20000~27000	-35.43	PASS
Band38	20MHz	16QAM	38000	1RB#0	0.009~0.15	-65.31	PASS
Band38	20MHz	16QAM	38000	1RB#0	0.15~30	-52.23	PASS
Band38	20MHz	16QAM	38000	1RB#0	30~1000	-52.81	PASS
Band38	20MHz	16QAM	38000	1RB#0	1000~20000	-28.48	PASS
Band38	20MHz	16QAM	38000	1RB#0	20000~27000	-35.98	PASS
Band38	20MHz	QPSK	38150	1RB#0	0.009~0.15	-65.81	PASS
Band38	20MHz	QPSK	38150	1RB#0	0.15~30	-57.19	PASS
Band38	20MHz	QPSK	38150	1RB#0	30~1000	-51.97	PASS
Band38	20MHz	QPSK	38150	1RB#0	1000~20000	-28.24	PASS
Band38	20MHz	QPSK	38150	1RB#0	20000~27000	-35.84	PASS
Band38	20MHz	16QAM	38150	1RB#0	0.009~0.15	-66.60	PASS
Band38	20MHz	16QAM	38150	1RB#0	0.15~30	-52.17	PASS
Band38	20MHz	16QAM	38150	1RB#0	30~1000	-51.59	PASS
Band38	20MHz	16QAM	38150	1RB#0	1000~20000	-28.03	PASS
Band38	20MHz	16QAM	38150	1RB#0	20000~27000	-35.71	PASS
Band38	5MHz	16QAM	38000	1RB#0	0.009~0.15	-65.86	PASS
Band38	5MHz	16QAM	38000	1RB#0	0.15~30	-55.39	PASS
Band38	5MHz	16QAM	38000	1RB#0	30~1000	-53.22	PASS

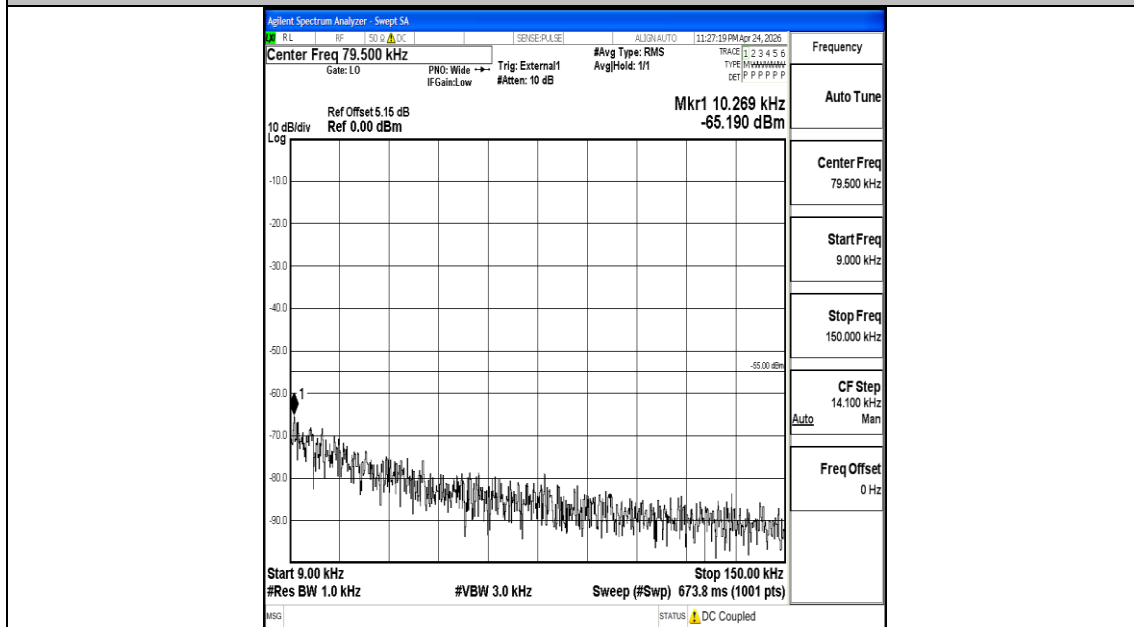
Test Graphs







Band38_5MHz_QPSK_37775_1RB#0_20000~27000_20000~27000



Band38_5MHz_16QAM_37775_1RB#0_0.009~0.15_0.009~0.15

