

Appendix O: Test Data for E-UTRA Band 41

Product Name: GNSS Receiver

Test Model: Xbase

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	56.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

O.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.23	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.61	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.31	PASS
Band41	5MHz	QPSK	39675	12RB#0	22.45	PASS
Band41	5MHz	QPSK	39675	12RB#6	22.61	PASS
Band41	5MHz	QPSK	39675	12RB#13	22.53	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.49	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.52	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.87	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.67	PASS
Band41	5MHz	16QAM	39675	12RB#0	21.47	PASS
Band41	5MHz	16QAM	39675	12RB#6	21.57	PASS
Band41	5MHz	16QAM	39675	12RB#13	21.53	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.48	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.90	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.20	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.87	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.95	PASS
Band41	5MHz	QPSK	40620	12RB#6	23.05	PASS
Band41	5MHz	QPSK	40620	12RB#13	22.97	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.96	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.21	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.73	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.19	PASS
Band41	5MHz	16QAM	40620	12RB#0	21.89	PASS
Band41	5MHz	16QAM	40620	12RB#6	22.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	21.85	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.96	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.38	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.67	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.30	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.50	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.52	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.41	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.45	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.68	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.17	PASS

Band41	5MHz	16QAM	41565	1RB#24	22.62	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.38	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.48	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.35	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.45	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.32	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.48	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.38	PASS
Band41	10MHz	QPSK	39700	25RB#0	22.35	PASS
Band41	10MHz	QPSK	39700	25RB#12	22.36	PASS
Band41	10MHz	QPSK	39700	25RB#25	22.41	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.61	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.92	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.66	PASS
Band41	10MHz	16QAM	39700	25RB#0	21.40	PASS
Band41	10MHz	16QAM	39700	25RB#12	21.38	PASS
Band41	10MHz	16QAM	39700	25RB#25	21.44	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.35	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.77	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.91	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.67	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.77	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.75	PASS
Band41	10MHz	QPSK	40620	25RB#25	22.82	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.79	PASS
Band41	10MHz	16QAM	40620	1RB#0	23.06	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.97	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.87	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.77	PASS
Band41	10MHz	16QAM	40620	25RB#25	21.86	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.76	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.31	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.34	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.08	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.31	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.26	PASS
Band41	10MHz	QPSK	41540	25RB#25	22.22	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.30	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.63	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.74	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.38	PASS

Band41	10MHz	16QAM	41540	25RB#0	21.36	PASS
Band41	10MHz	16QAM	41540	25RB#12	21.28	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.26	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.27	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.28	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.40	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.30	PASS
Band41	15MHz	QPSK	39725	38RB#0	22.40	PASS
Band41	15MHz	QPSK	39725	38RB#18	22.46	PASS
Band41	15MHz	QPSK	39725	38RB#37	22.50	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.43	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.56	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.83	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.61	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.37	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.44	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.47	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.42	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.76	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.78	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.60	PASS
Band41	15MHz	QPSK	40620	38RB#0	22.88	PASS
Band41	15MHz	QPSK	40620	38RB#18	22.81	PASS
Band41	15MHz	QPSK	40620	38RB#37	22.86	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.83	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.05	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.21	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.87	PASS
Band41	15MHz	16QAM	40620	38RB#0	21.81	PASS
Band41	15MHz	16QAM	40620	38RB#18	21.80	PASS
Band41	15MHz	16QAM	40620	38RB#37	21.82	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.82	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.34	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.25	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.01	PASS
Band41	15MHz	QPSK	41515	38RB#0	22.50	PASS
Band41	15MHz	QPSK	41515	38RB#18	22.42	PASS
Band41	15MHz	QPSK	41515	38RB#37	22.32	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.39	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.64	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.69	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.33	PASS
Band41	15MHz	16QAM	41515	38RB#0	21.46	PASS

Band41	15MHz	16QAM	41515	38RB#18	21.35	PASS
Band41	15MHz	16QAM	41515	38RB#37	21.28	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.16	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.58	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.21	PASS
Band41	20MHz	QPSK	39750	50RB#0	22.28	PASS
Band41	20MHz	QPSK	39750	50RB#25	22.39	PASS
Band41	20MHz	QPSK	39750	50RB#50	22.41	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.36	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.35	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.77	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.30	PASS
Band41	20MHz	16QAM	39750	50RB#0	21.32	PASS
Band41	20MHz	16QAM	39750	50RB#25	21.42	PASS
Band41	20MHz	16QAM	39750	50RB#50	21.42	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.34	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.60	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.98	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.47	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.76	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.80	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.73	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.76	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.76	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.15	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.58	PASS
Band41	20MHz	16QAM	40620	50RB#0	21.76	PASS
Band41	20MHz	16QAM	40620	50RB#25	21.82	PASS
Band41	20MHz	16QAM	40620	50RB#50	21.75	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.70	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.26	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.54	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.90	PASS
Band41	20MHz	QPSK	41490	50RB#0	22.40	PASS
Band41	20MHz	QPSK	41490	50RB#25	22.36	PASS
Band41	20MHz	QPSK	41490	50RB#50	22.27	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.34	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.42	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.68	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.04	PASS
Band41	20MHz	16QAM	41490	50RB#0	21.38	PASS
Band41	20MHz	16QAM	41490	50RB#25	21.40	PASS

Band41	20MHz	16QAM	41490	50RB#50	21.26	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.29	PASS

O.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	8.25	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	8.55	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	8.96	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.63	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.41	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.14	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	8.77	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.54	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	7.60	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	8.84	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.72	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.59	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	8.33	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.99	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	9.24	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.60	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.35	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.97	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	9.16	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.65	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	7.82	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.03	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	8.52	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.53	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.34	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	8.99	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	9.03	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.59	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.45	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	8.89	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	8.98	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.45	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.23	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	8.77	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	8.81	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	9.55	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	8.39	13	PASS

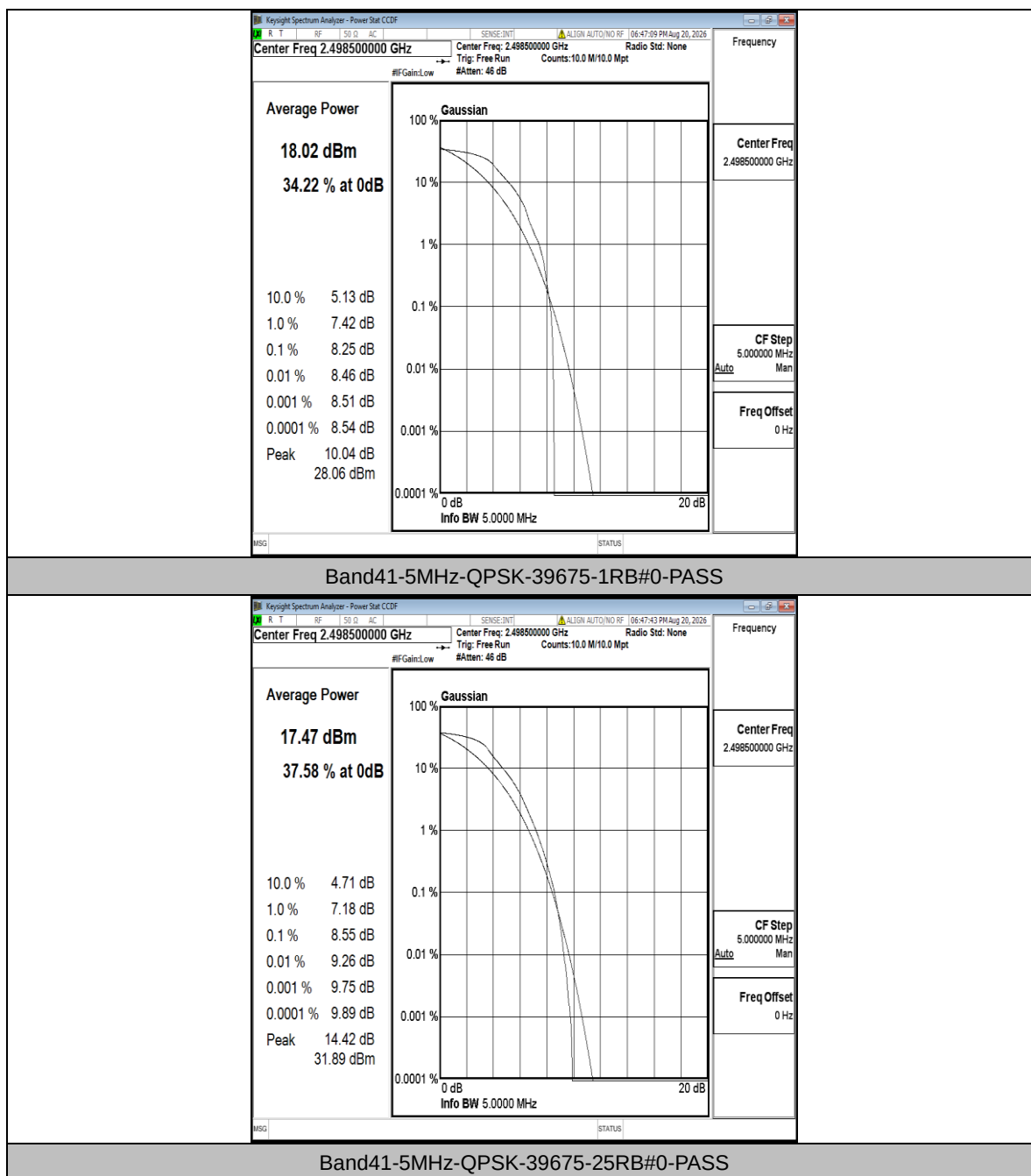
Guangzhou LCS Compliance Testing Laboratory Ltd.

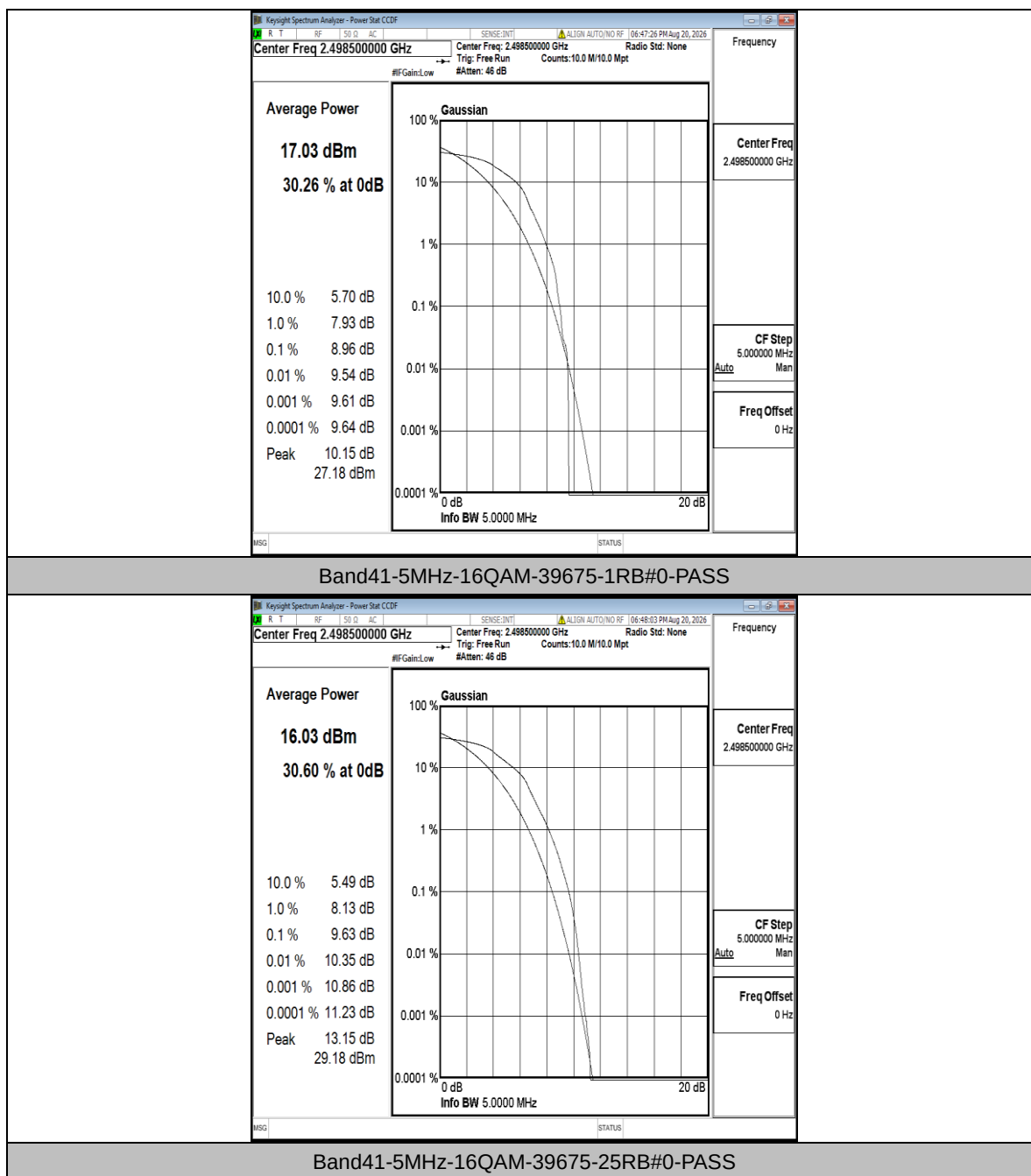
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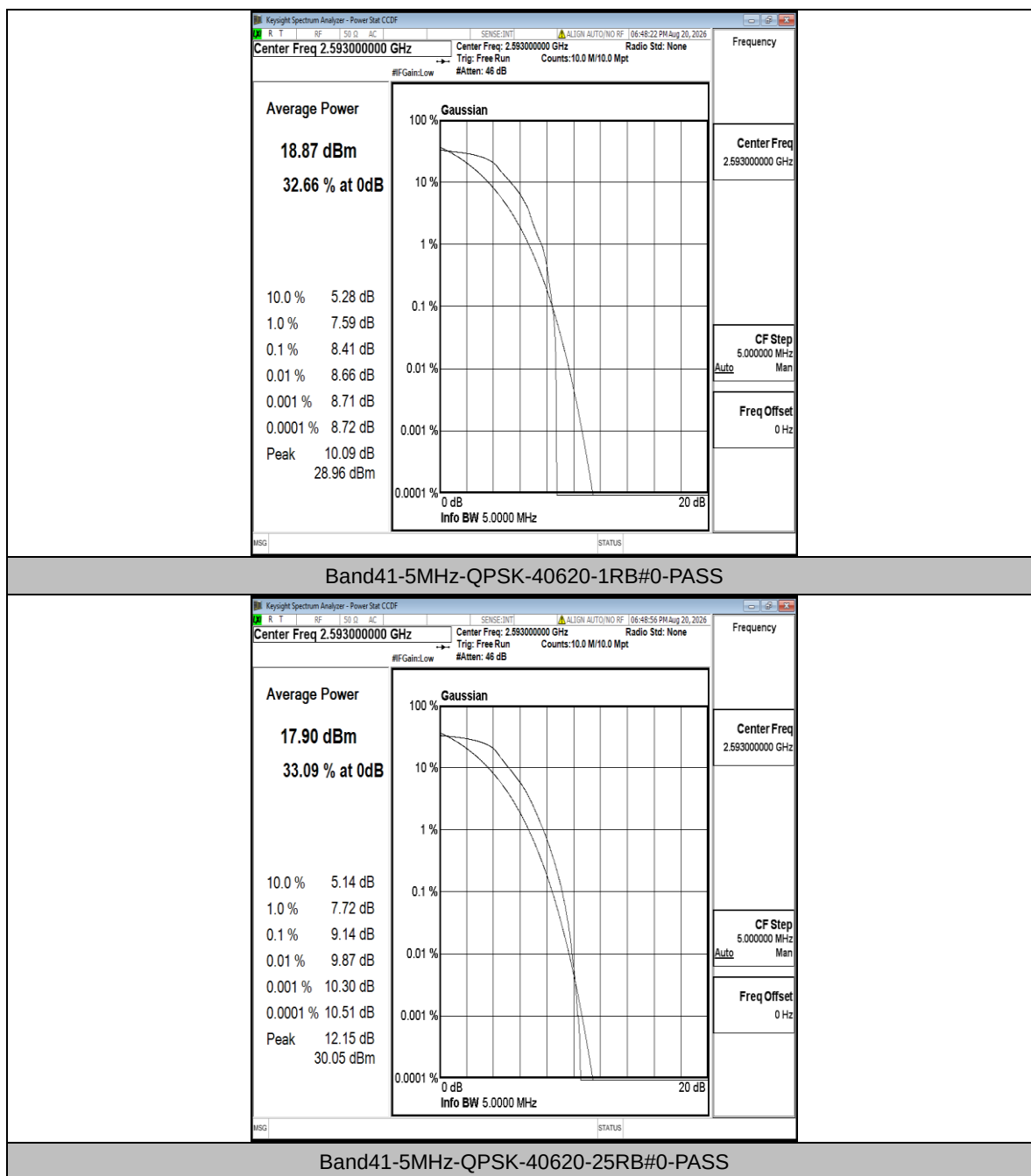
Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

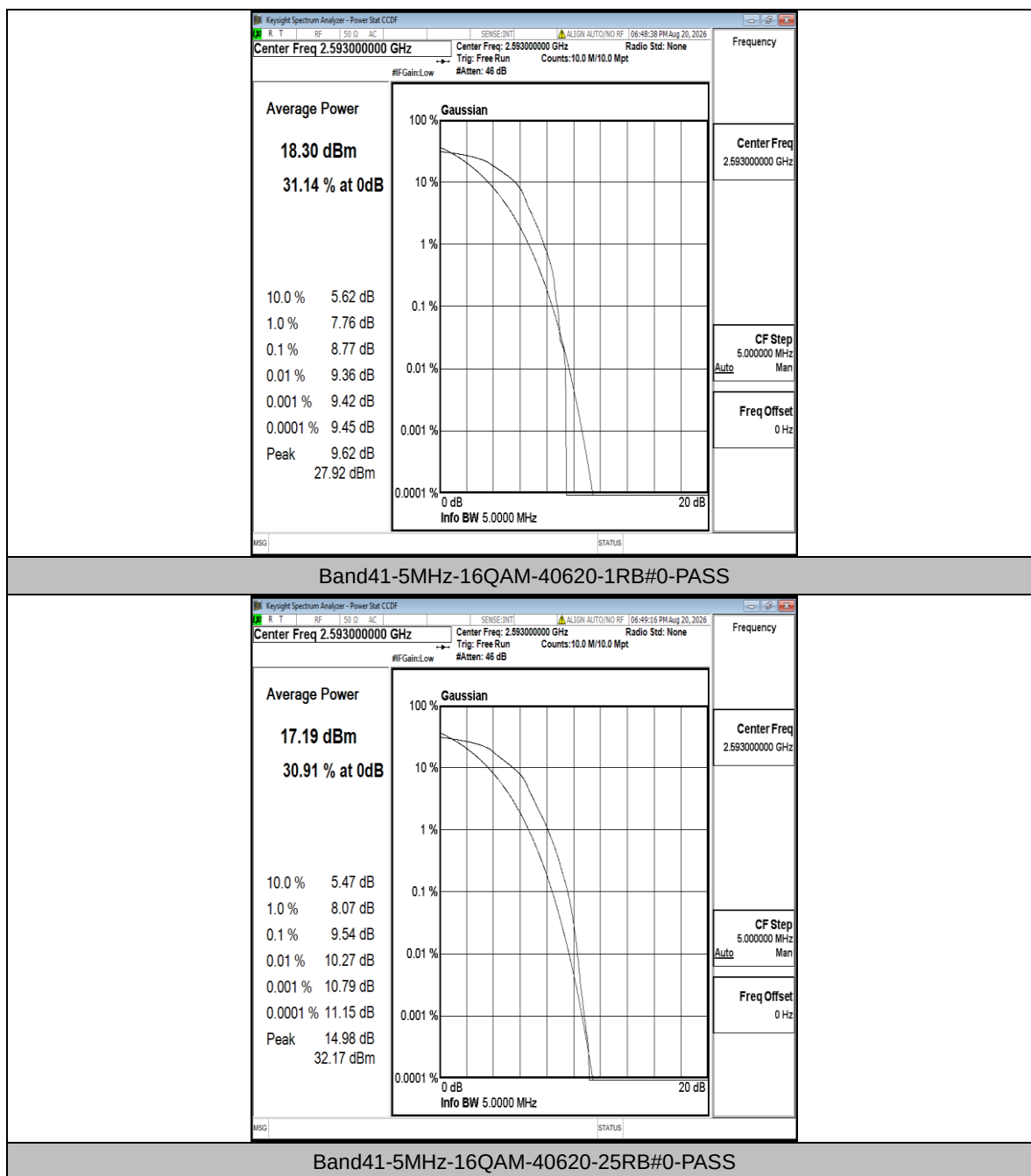
Band41	20MHz	QPSK	39750	100RB#0	8.54	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	8.67	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	10.30	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.21	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.87	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	8.73	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.30	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	7.78	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.13	13	PASS
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Band41	20MHz	16QAM	41490	100RB#0	9.56	13	PASS

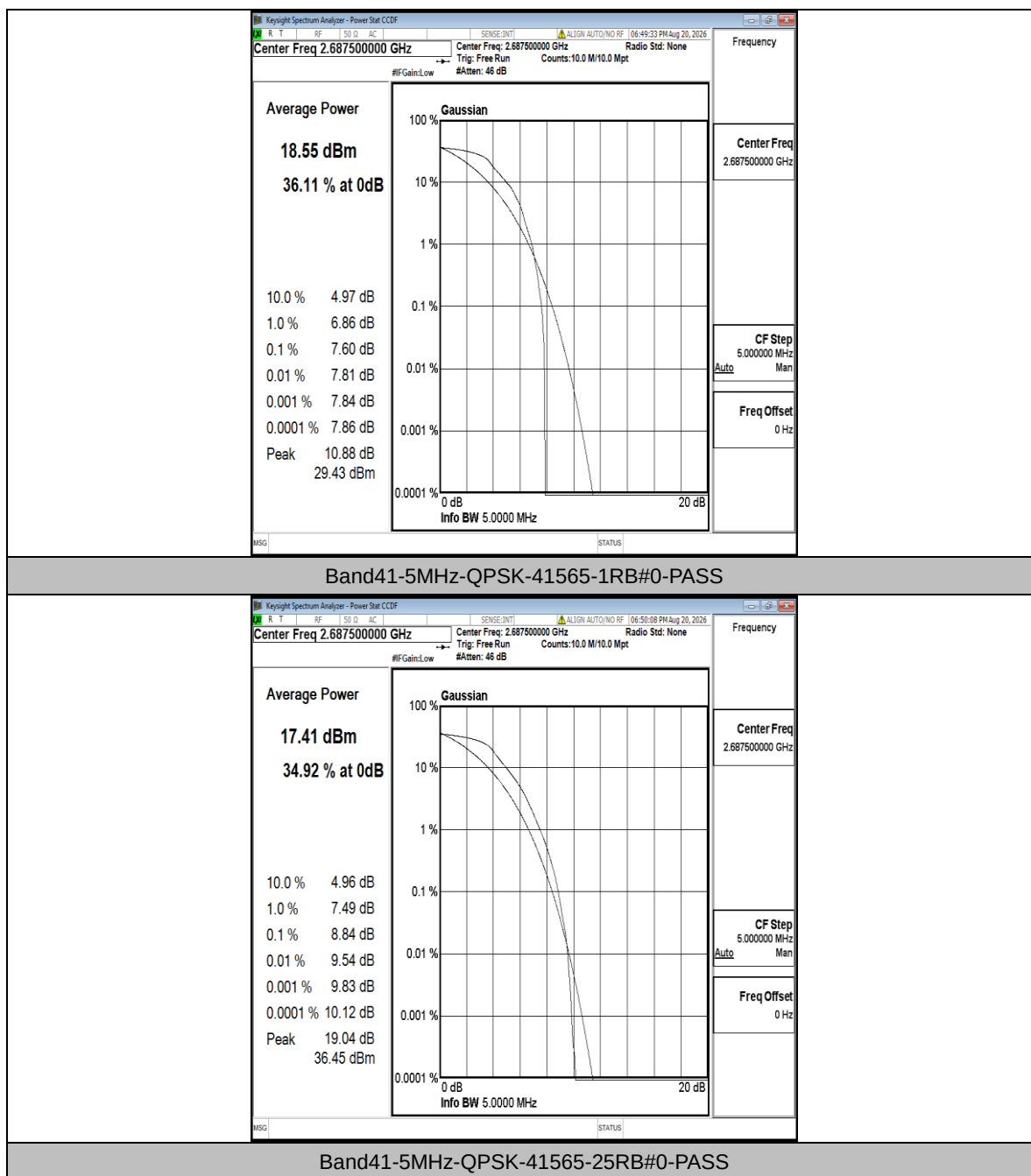
Test Graphs

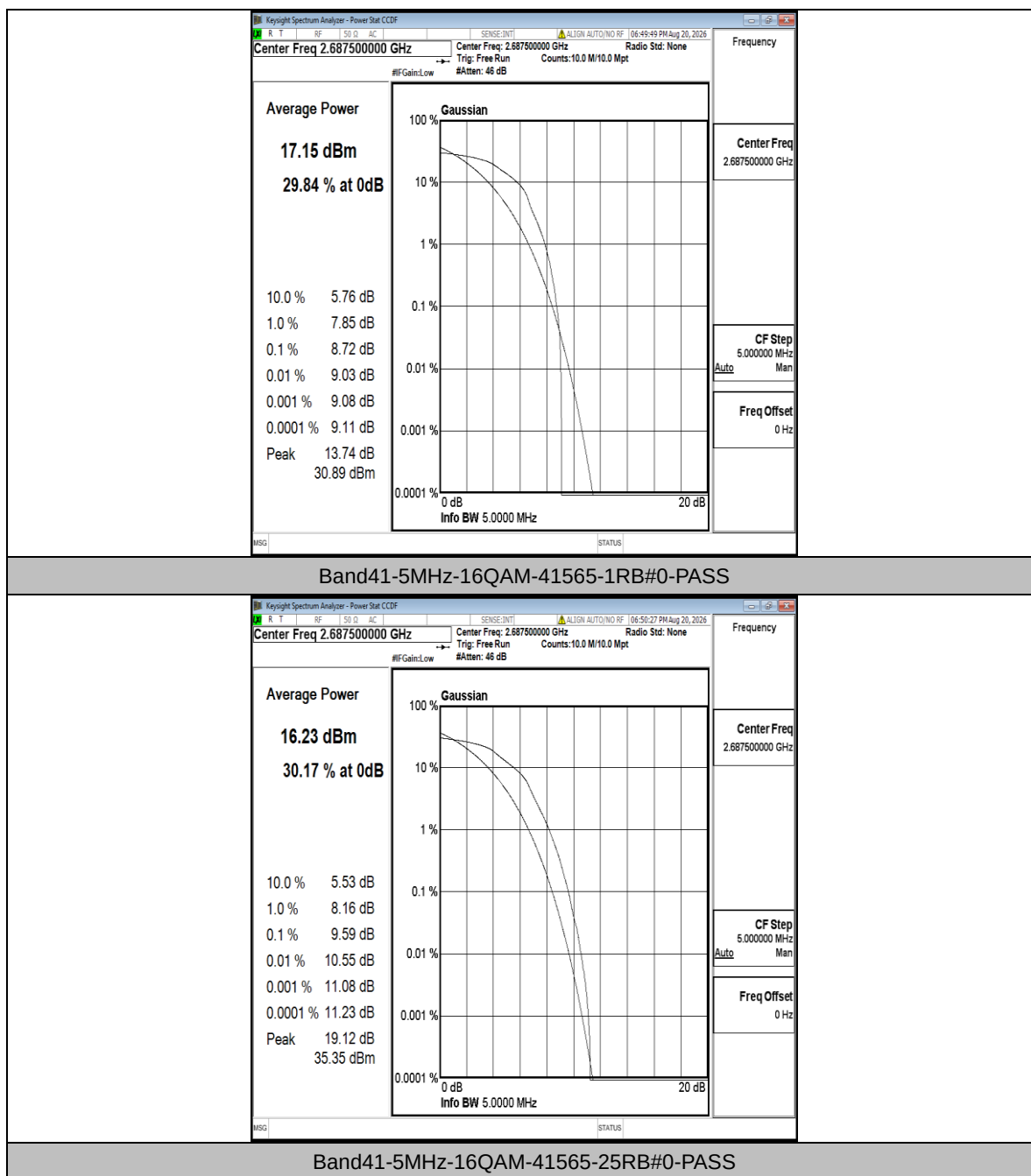


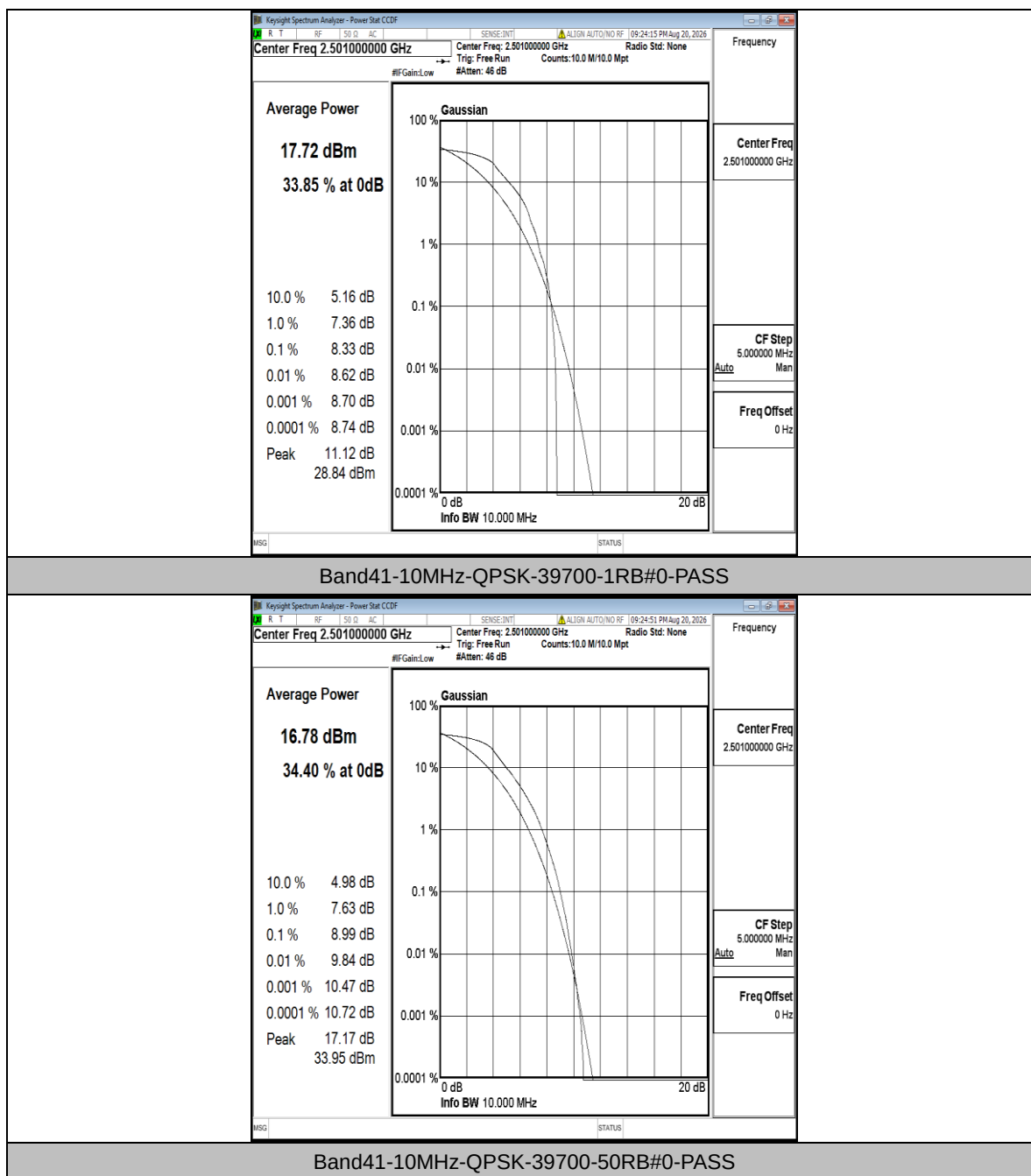


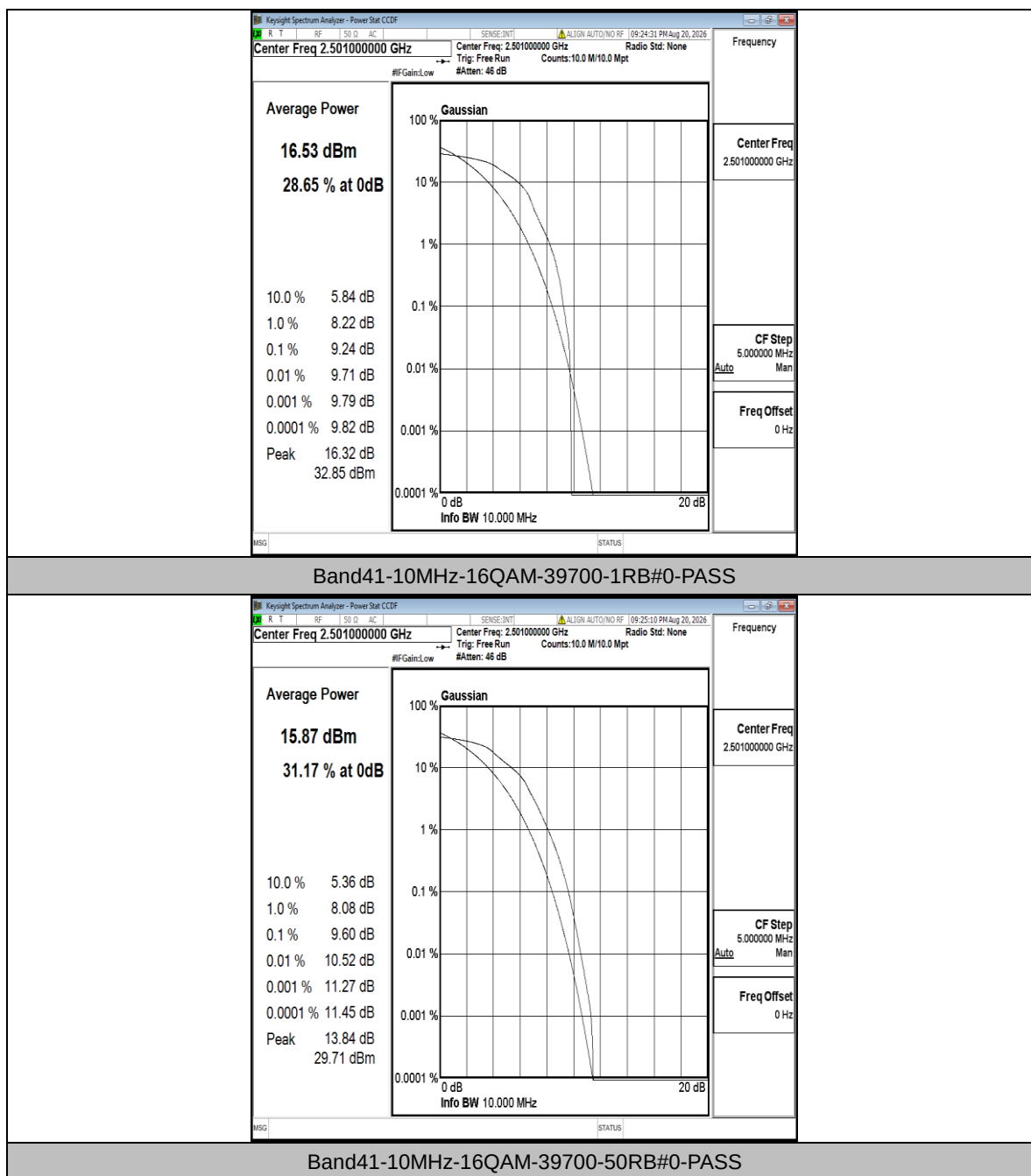


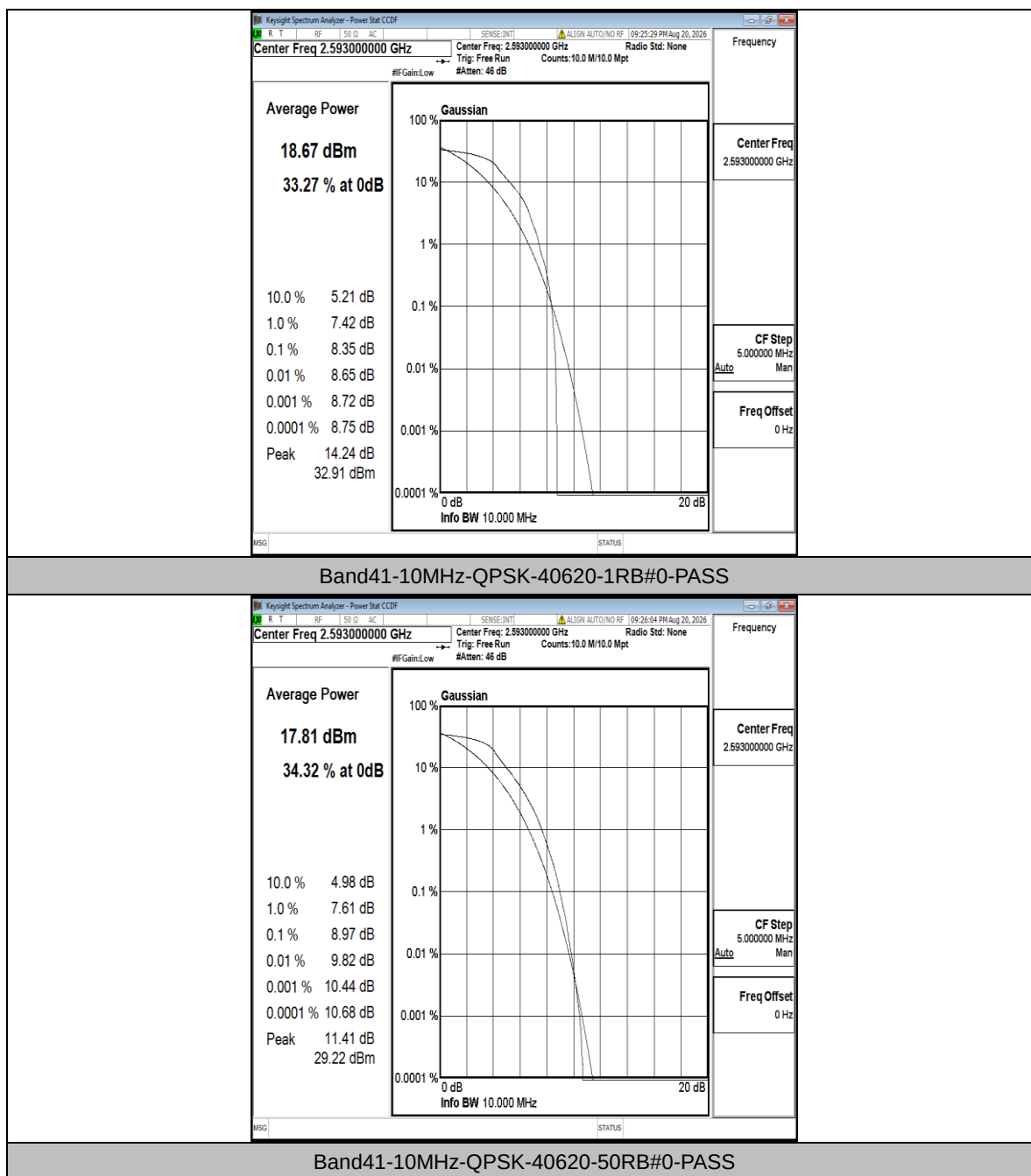


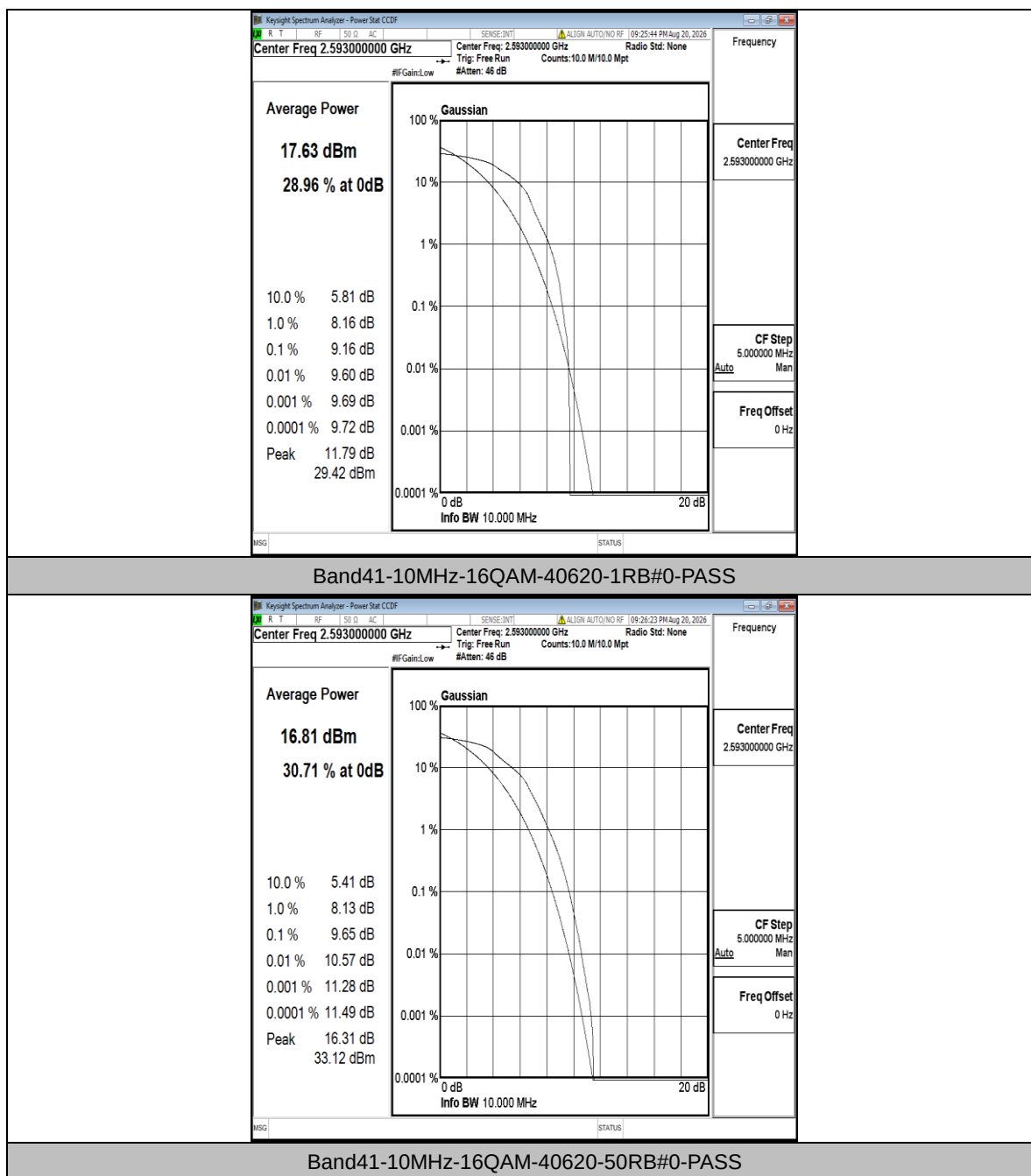


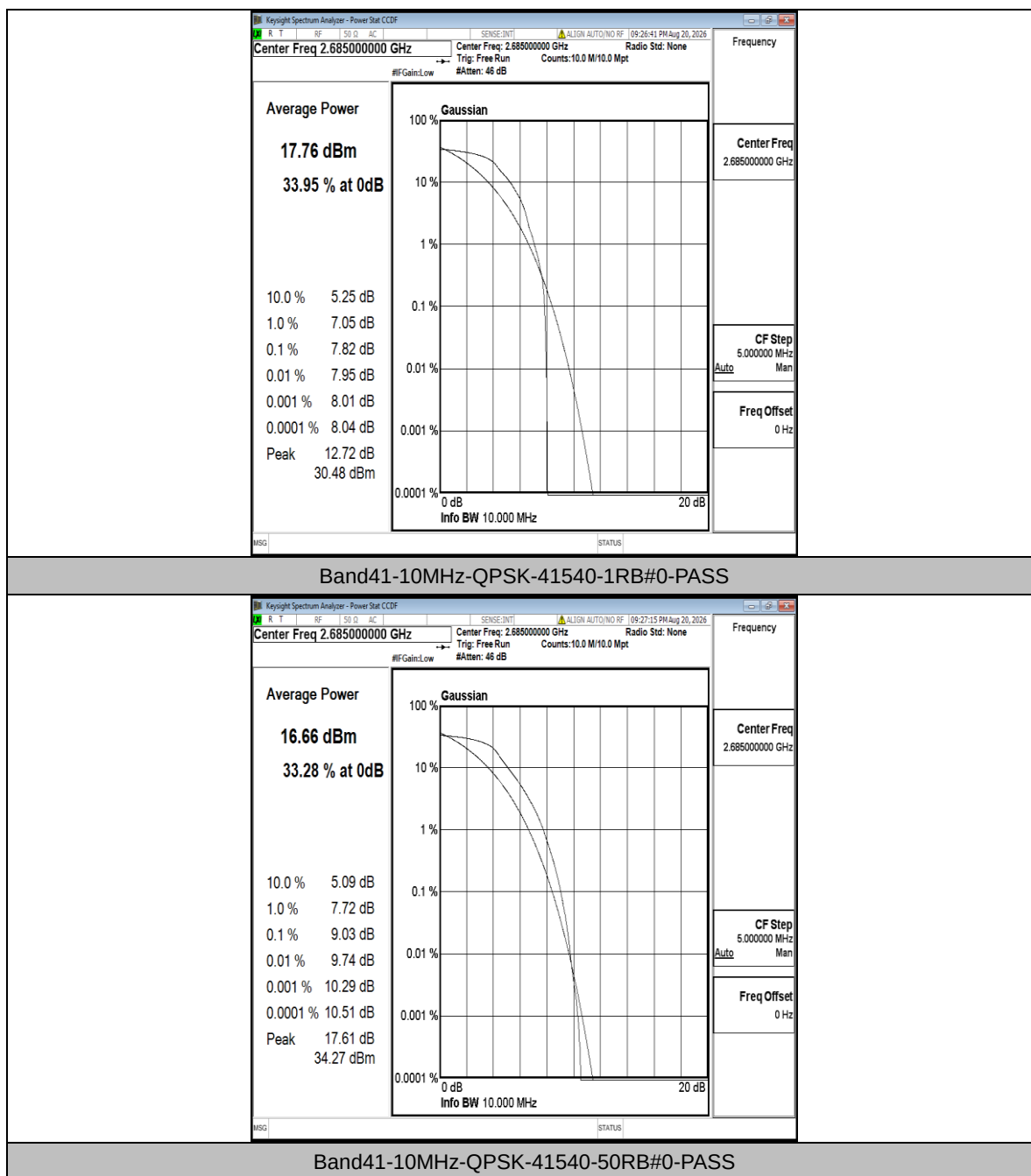


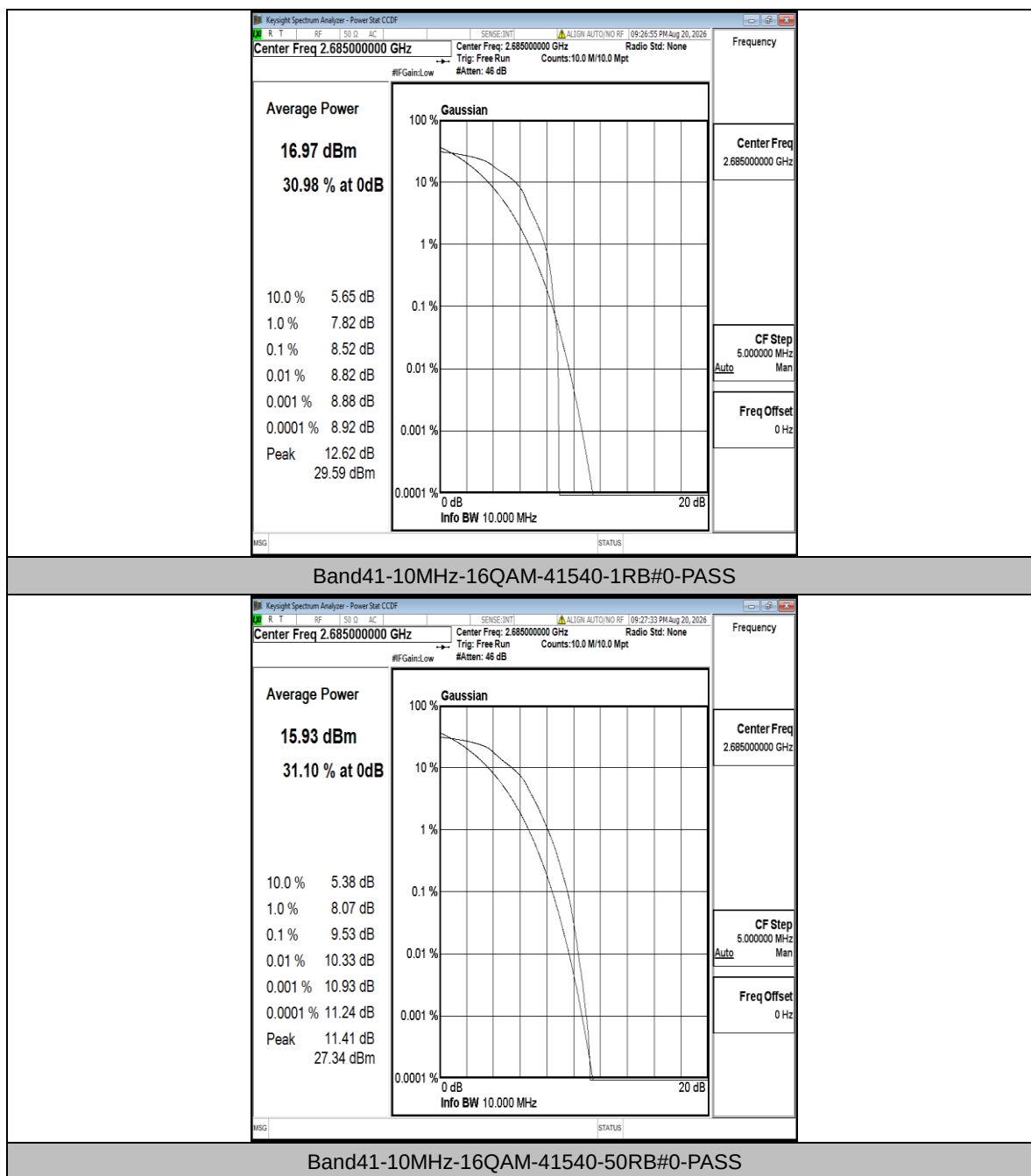


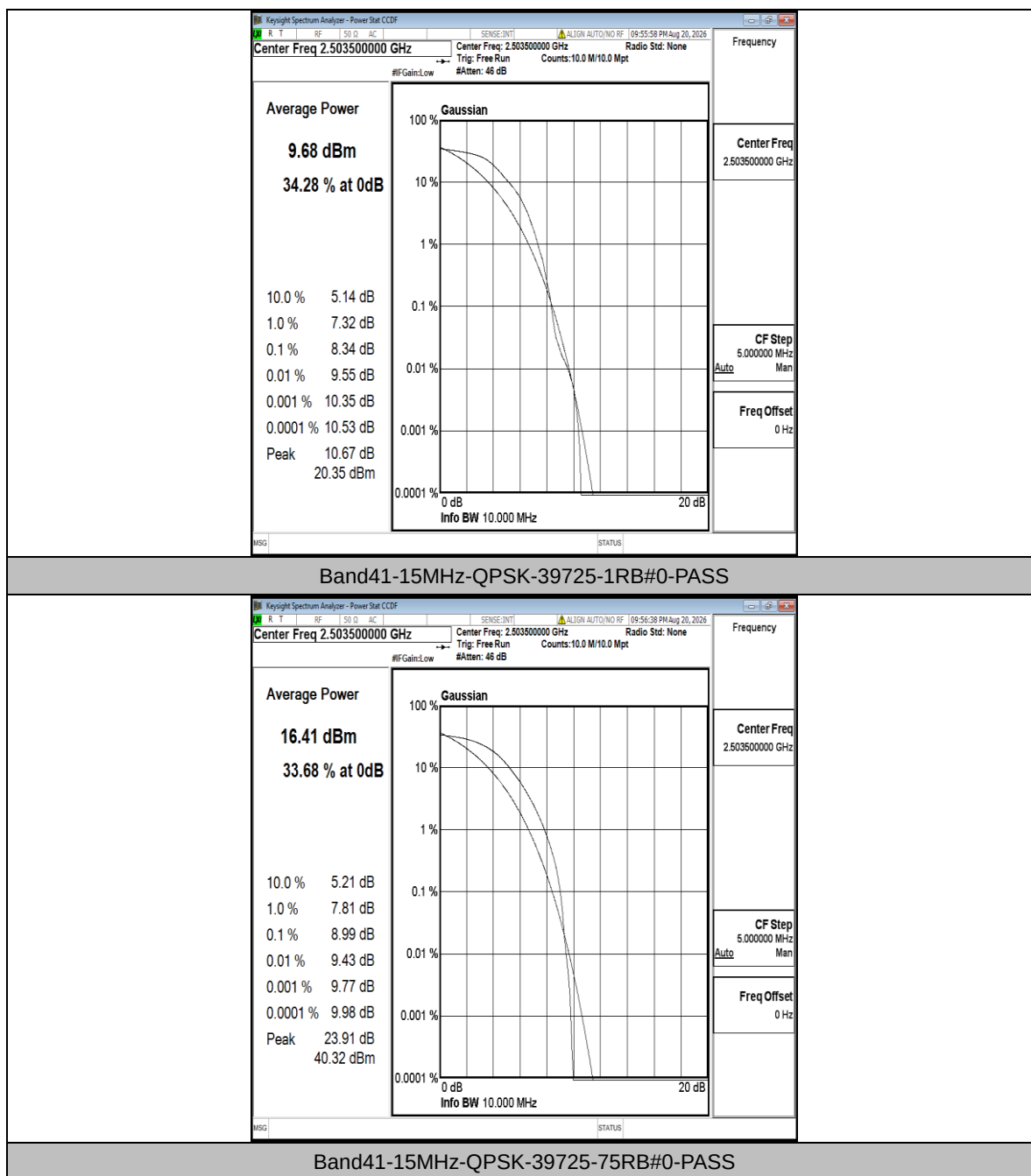


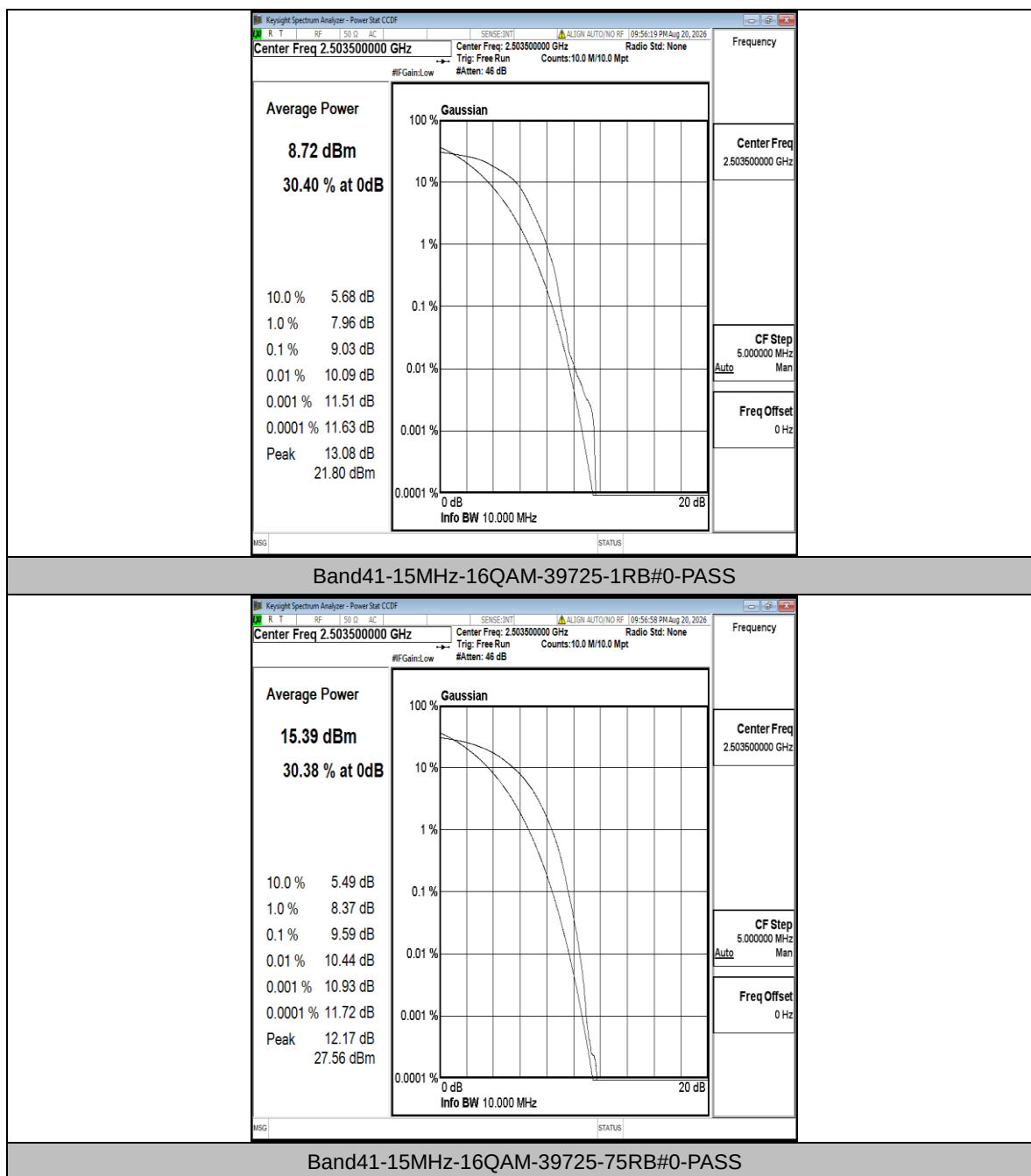


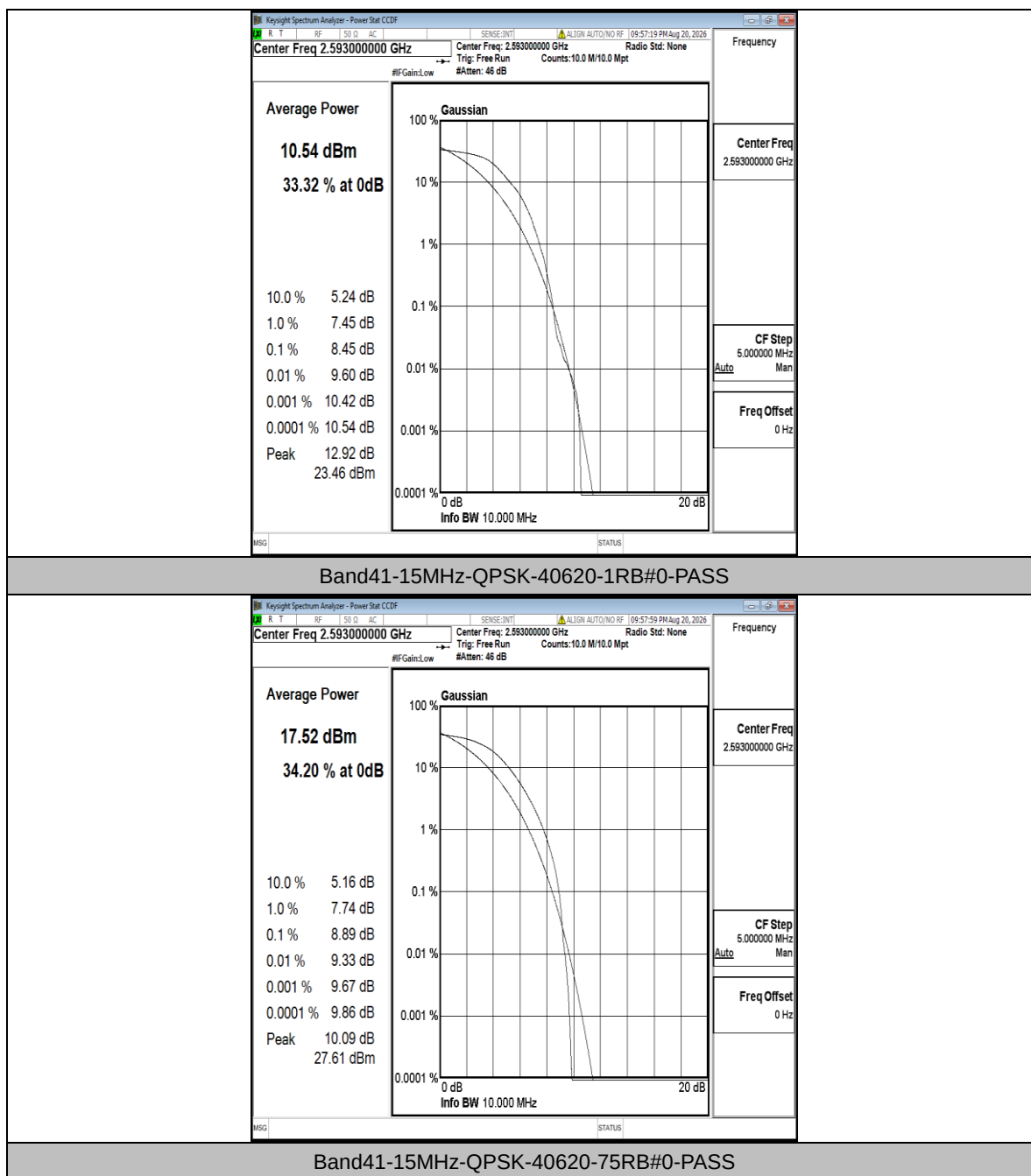


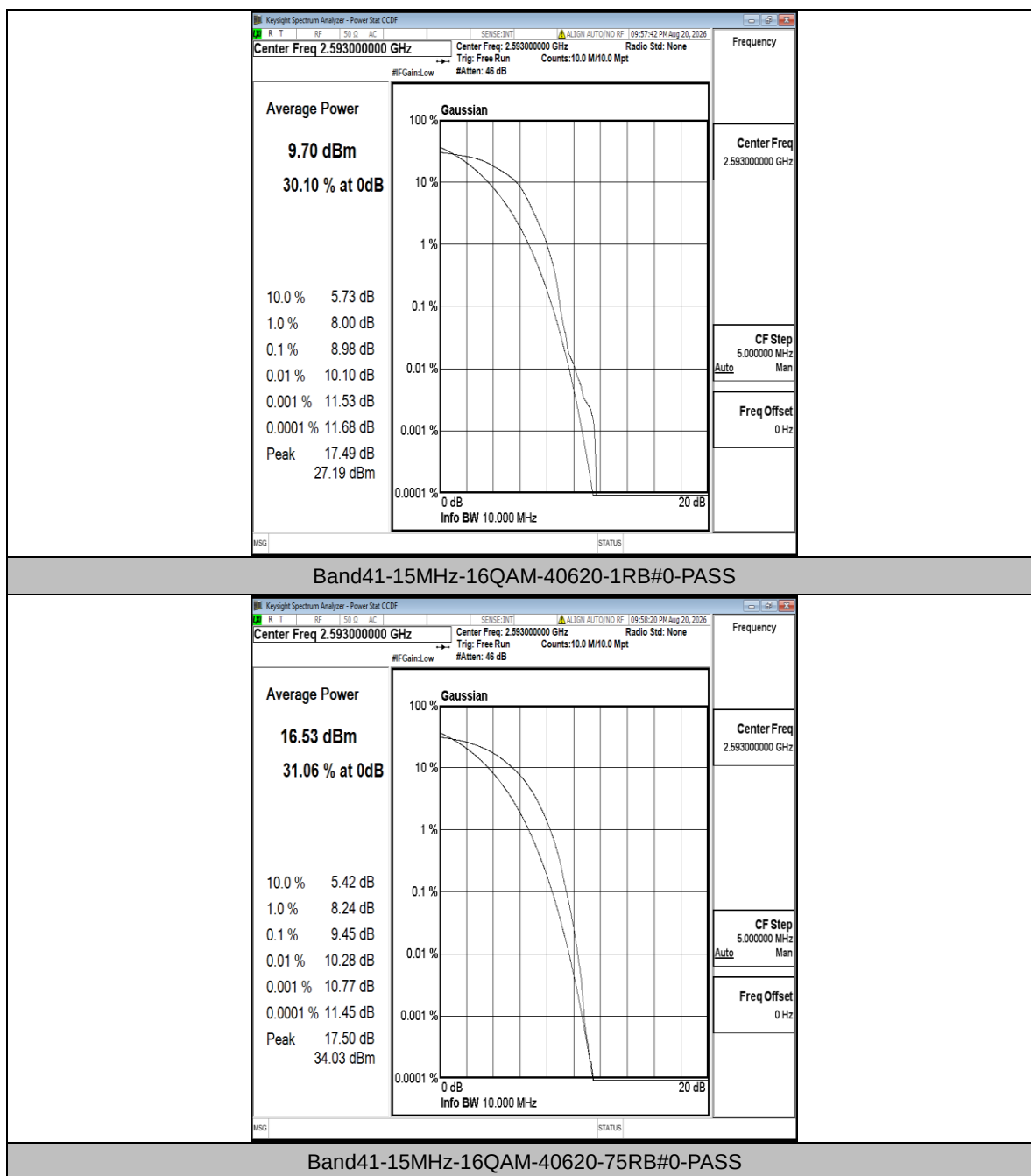


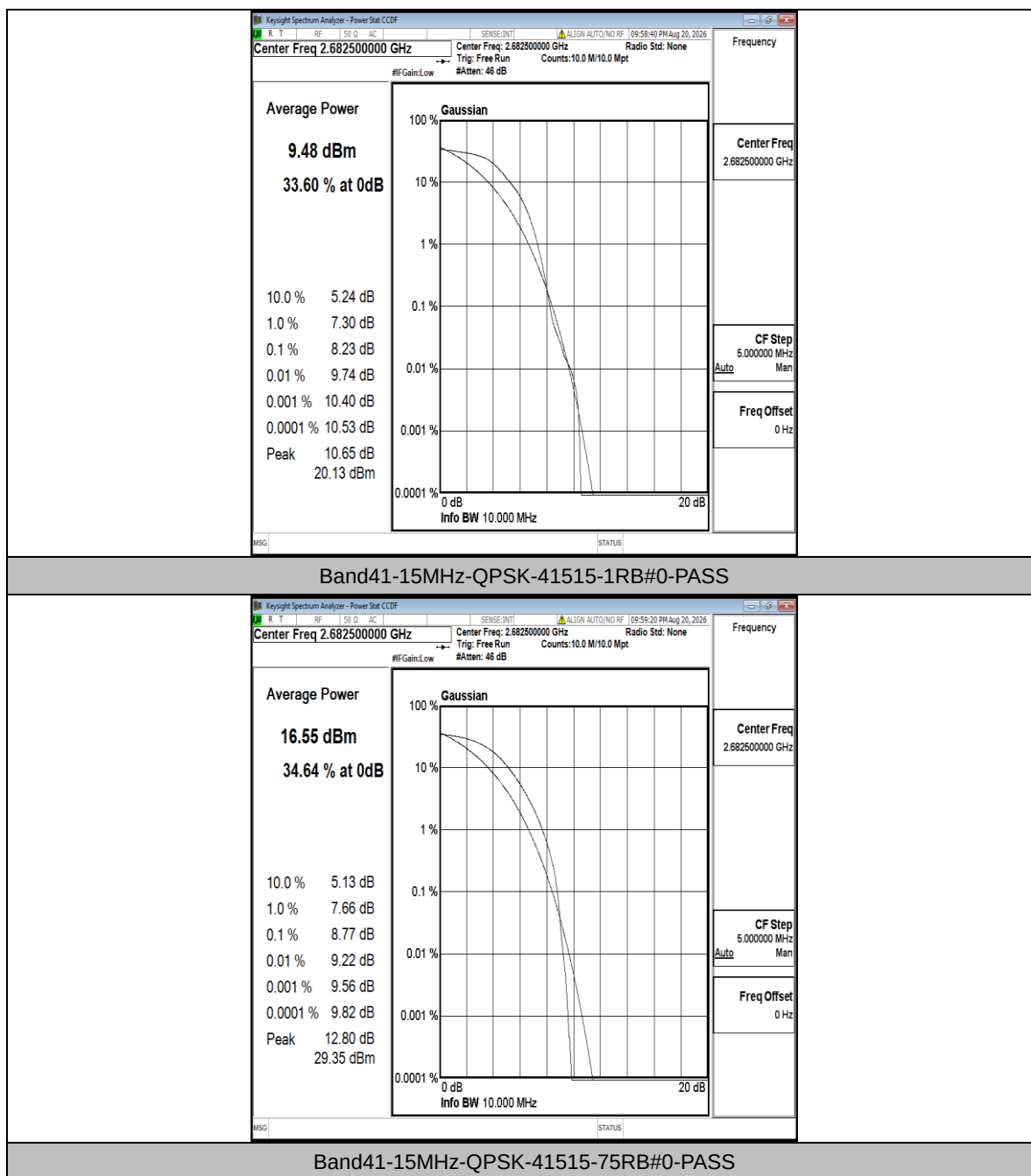


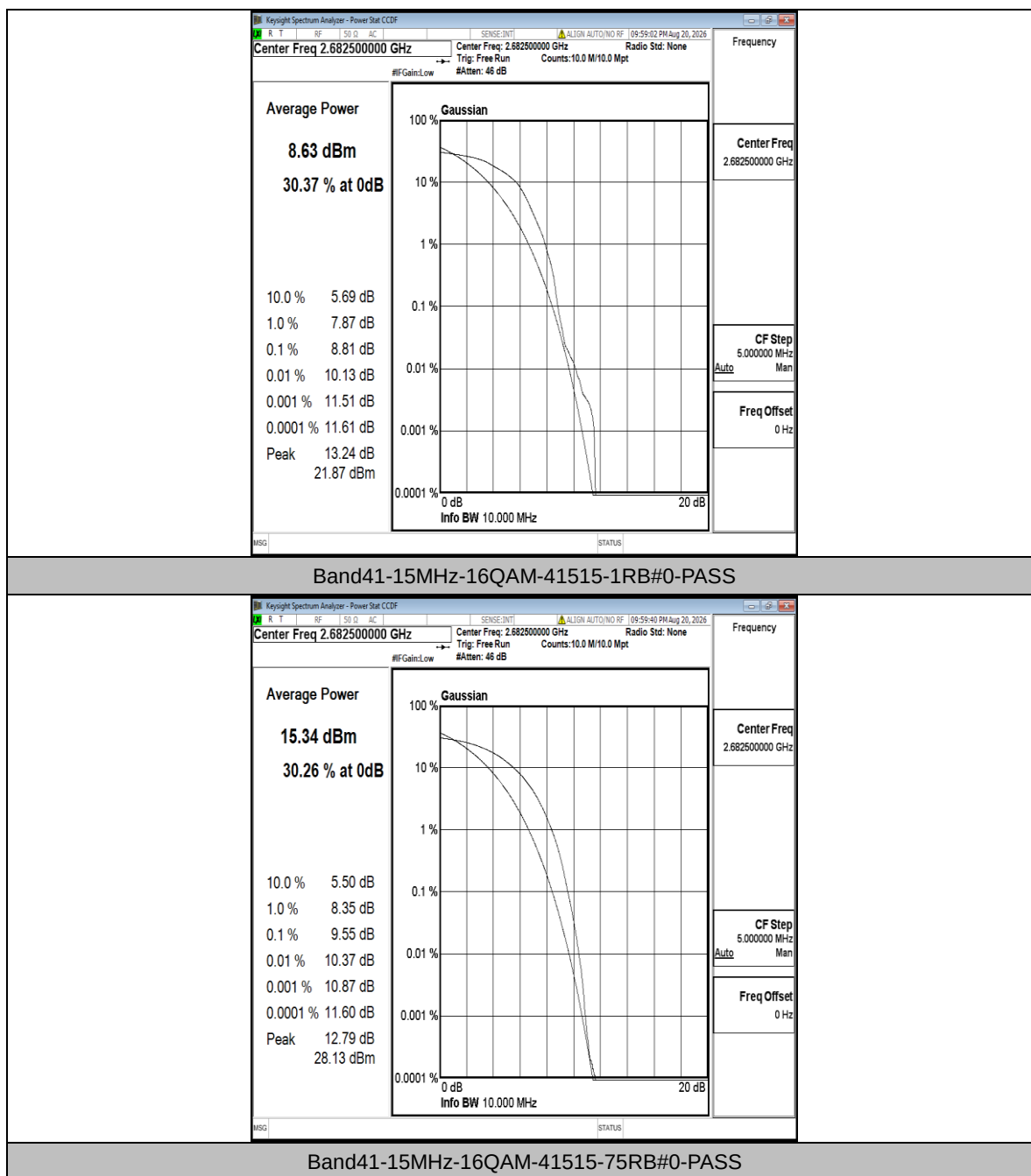


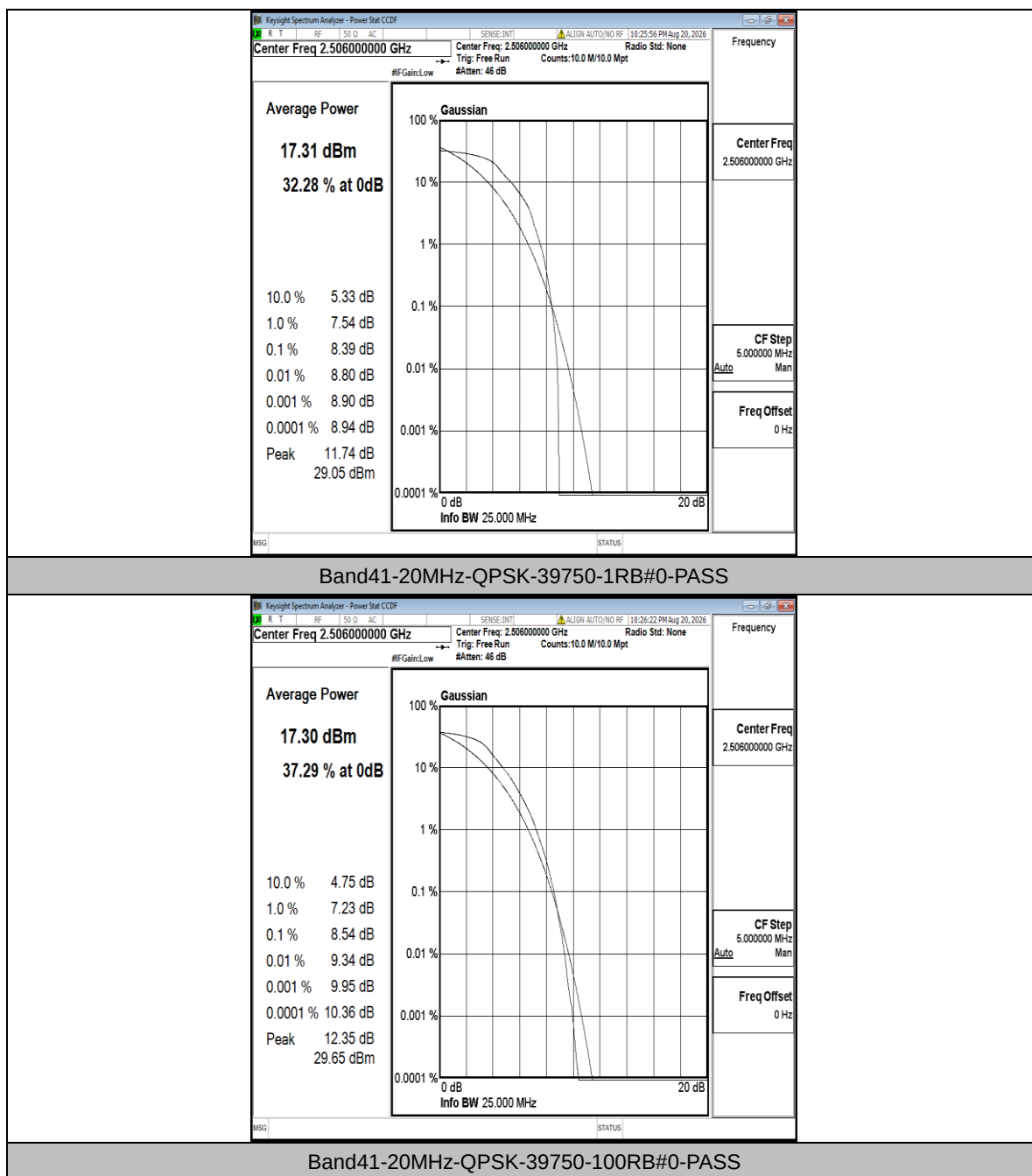


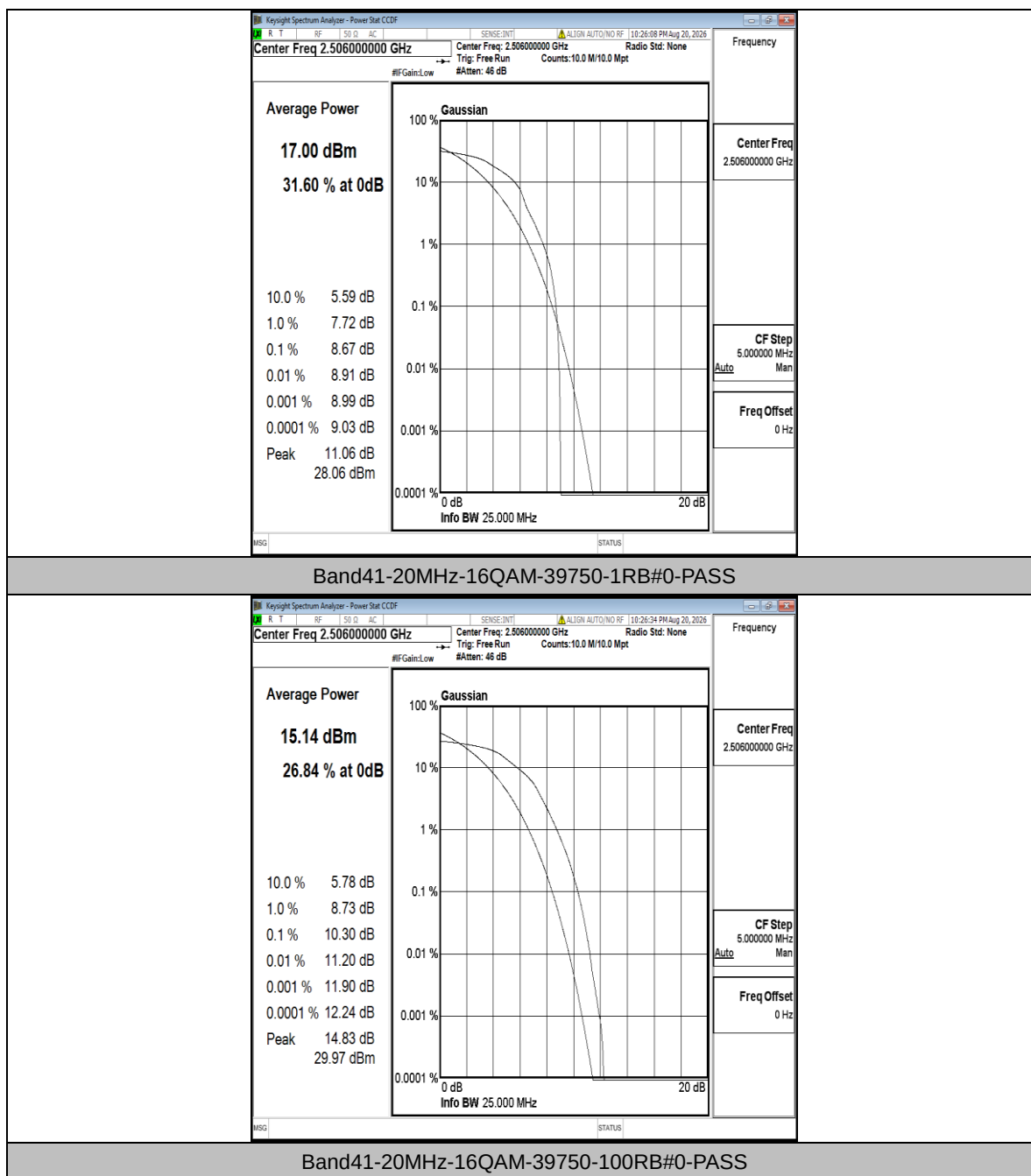


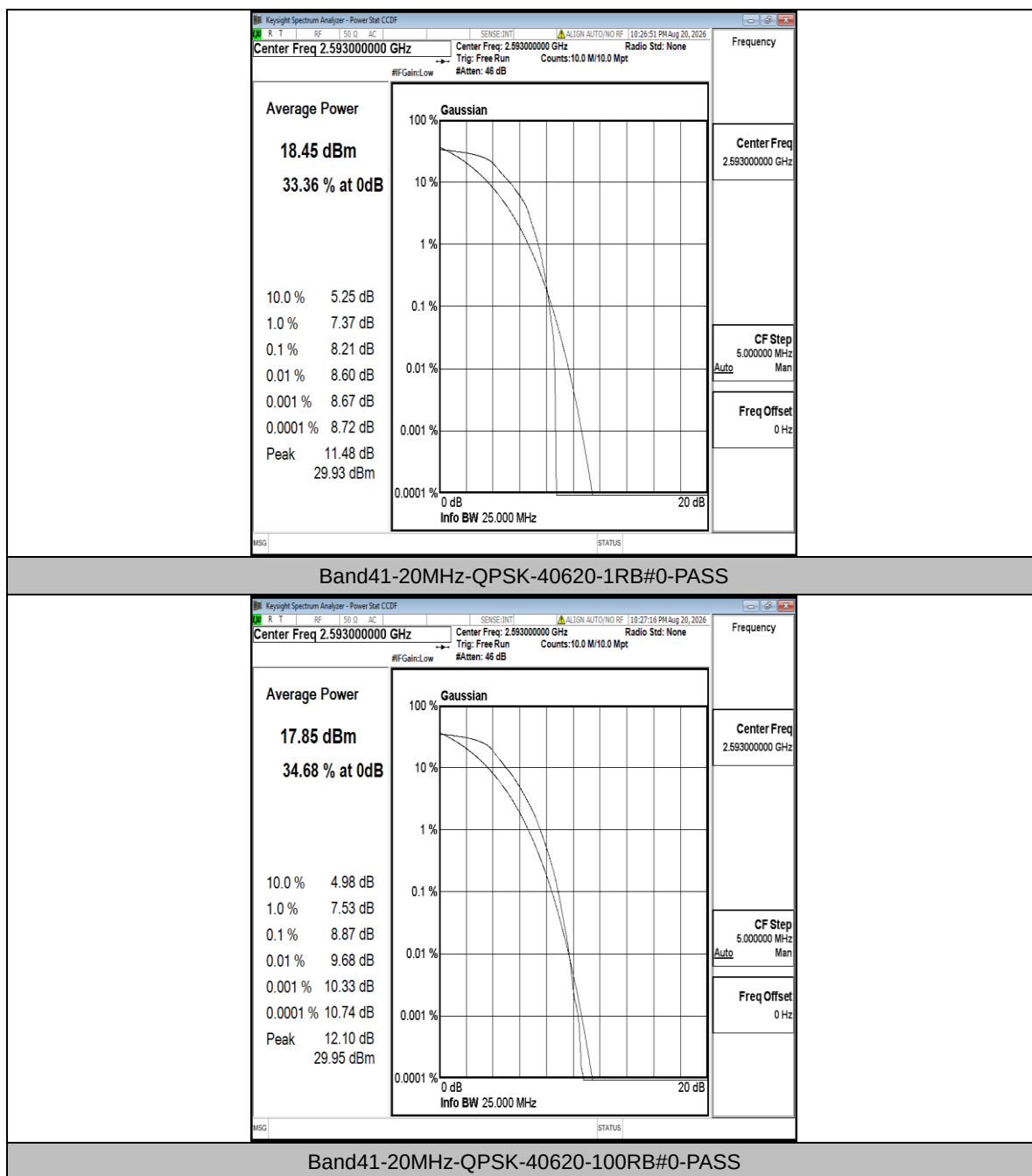


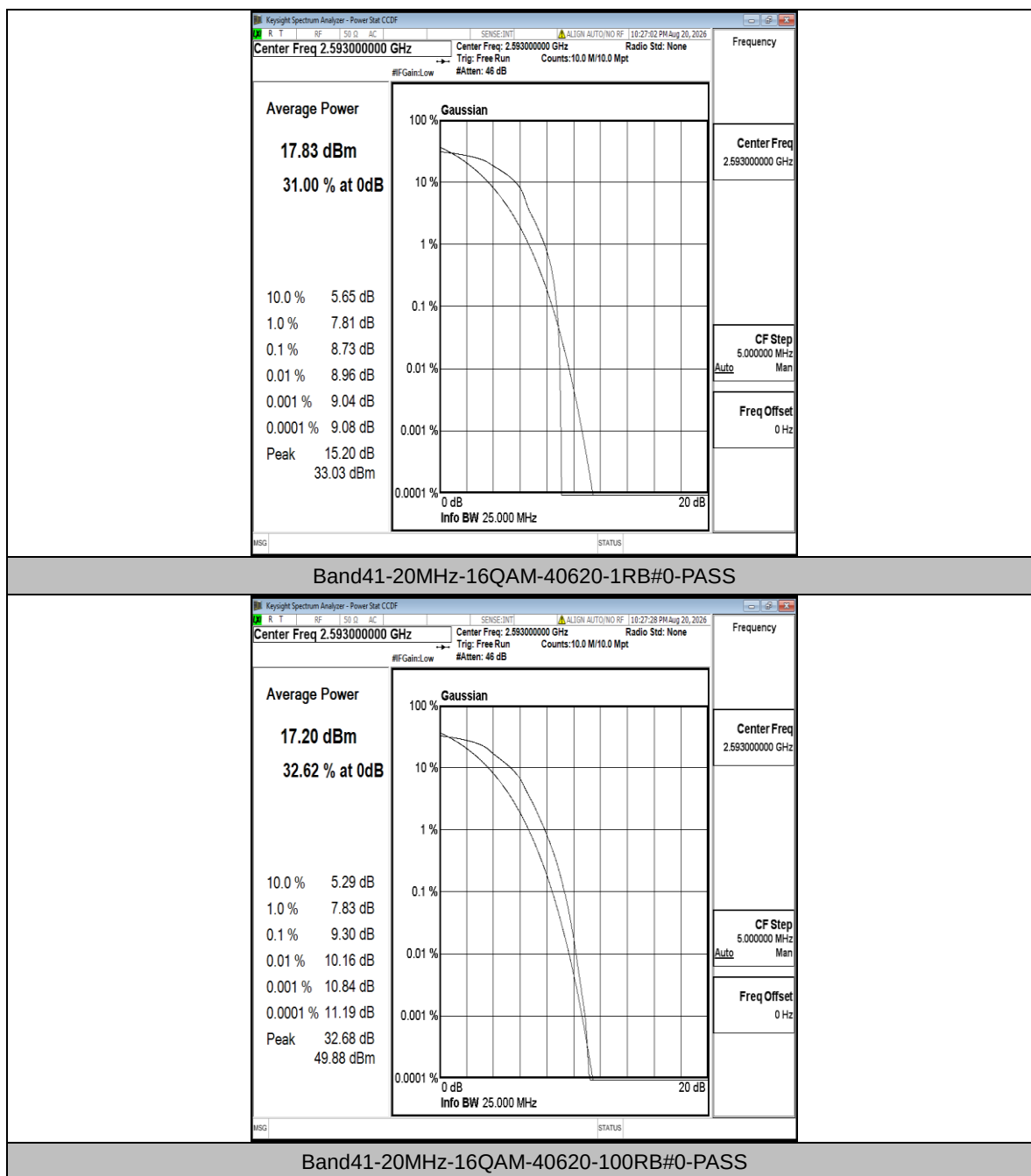


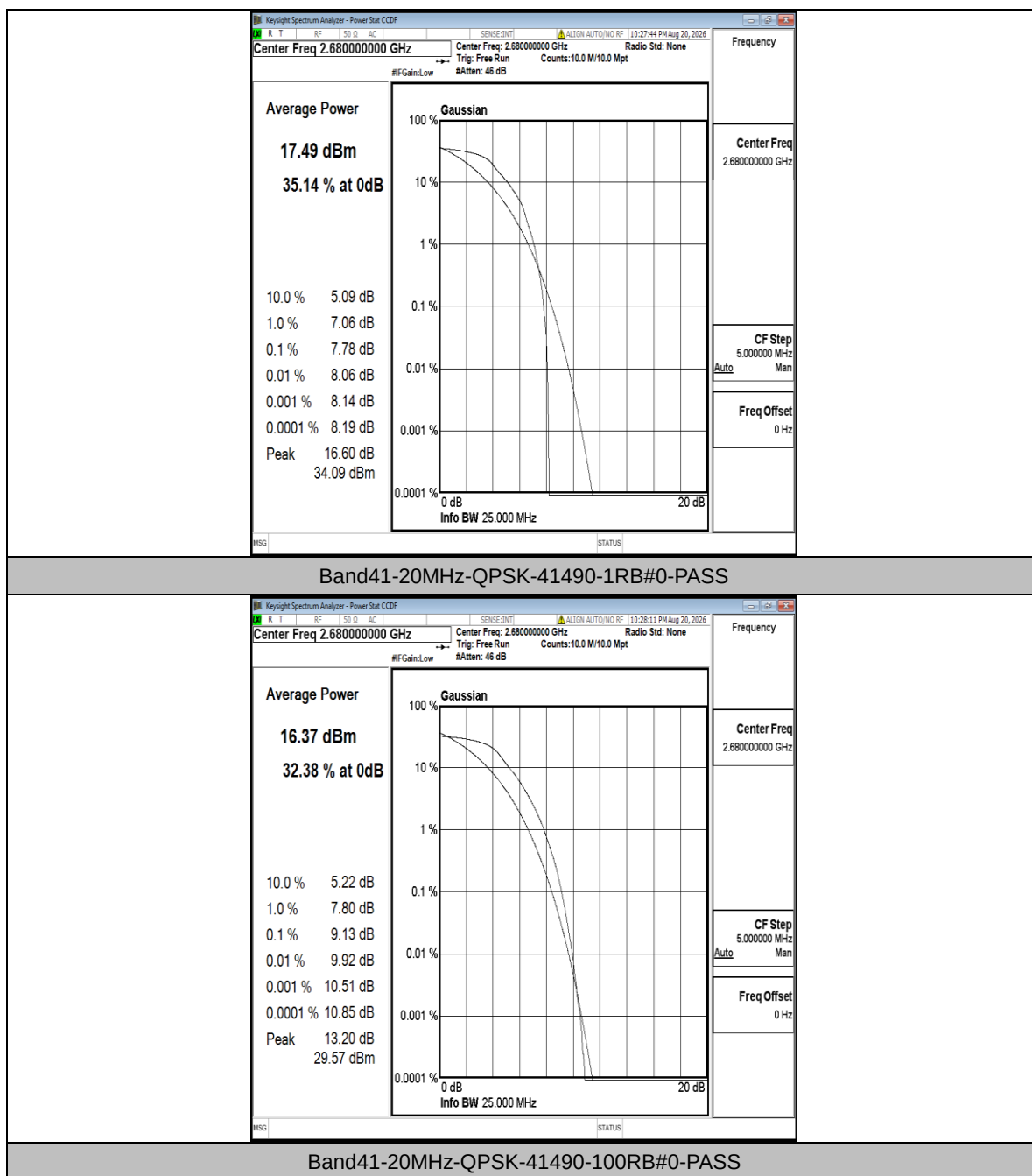


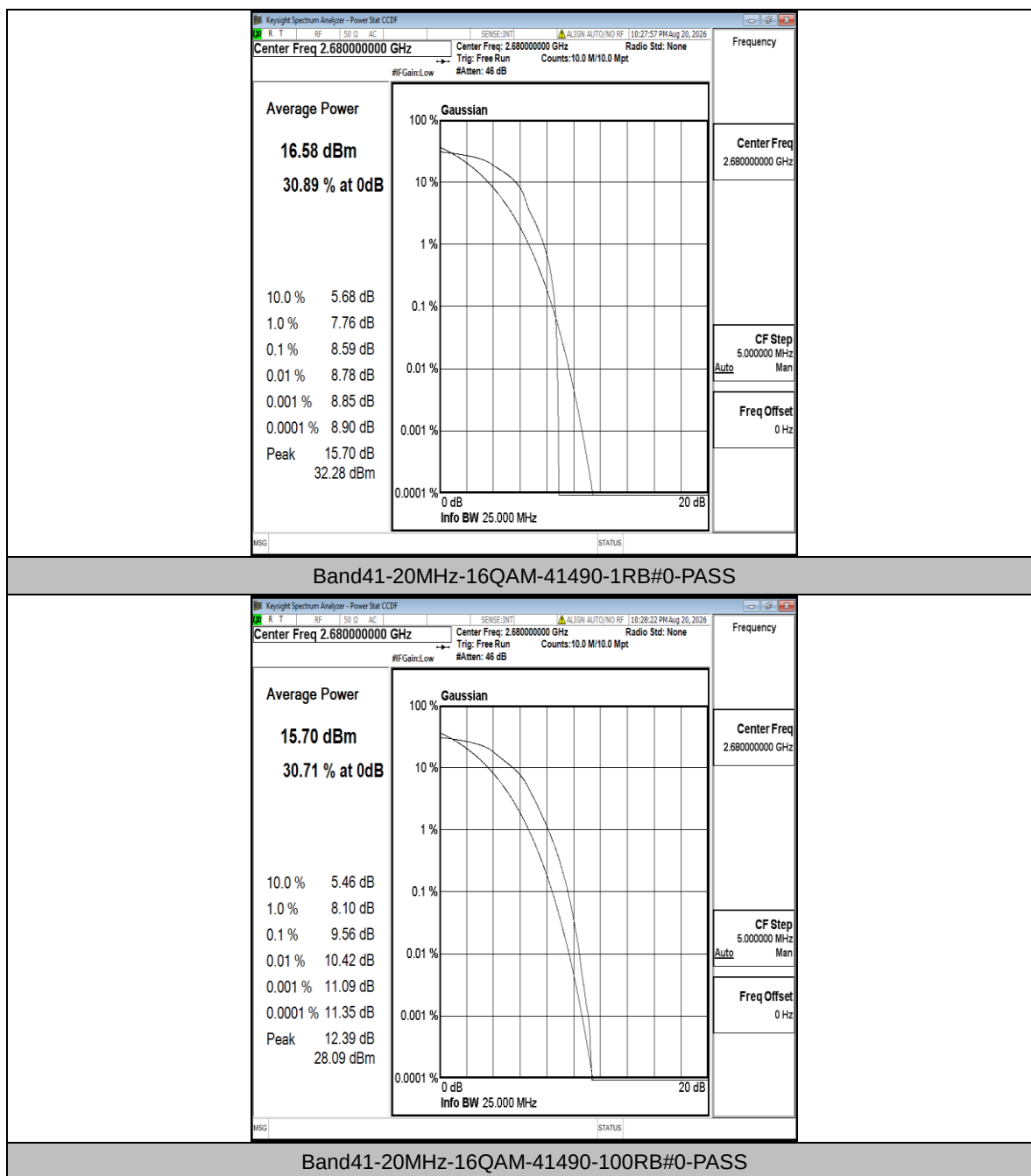










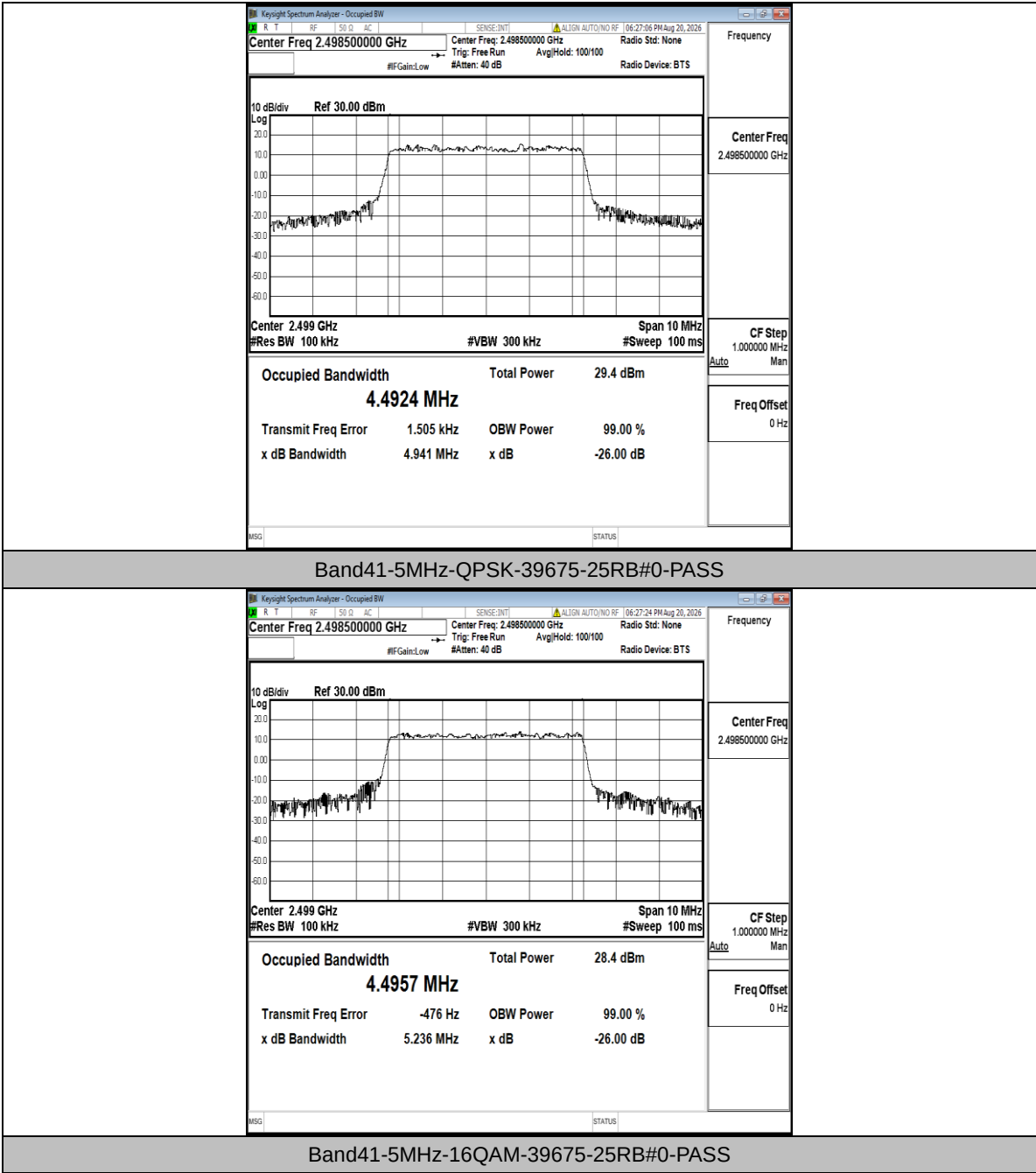


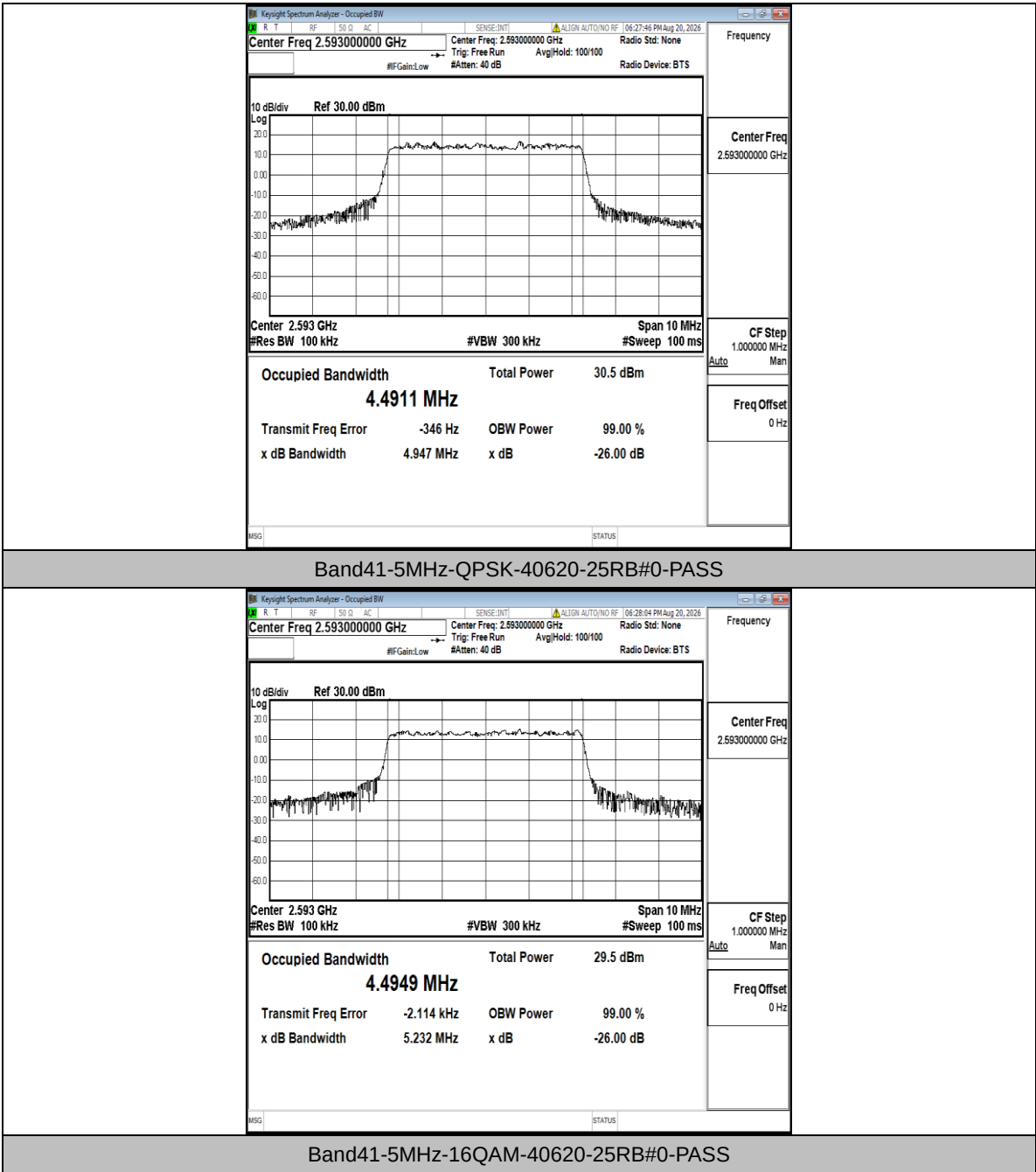
O.3 26dB Bandwidth and Occupied Bandwidth

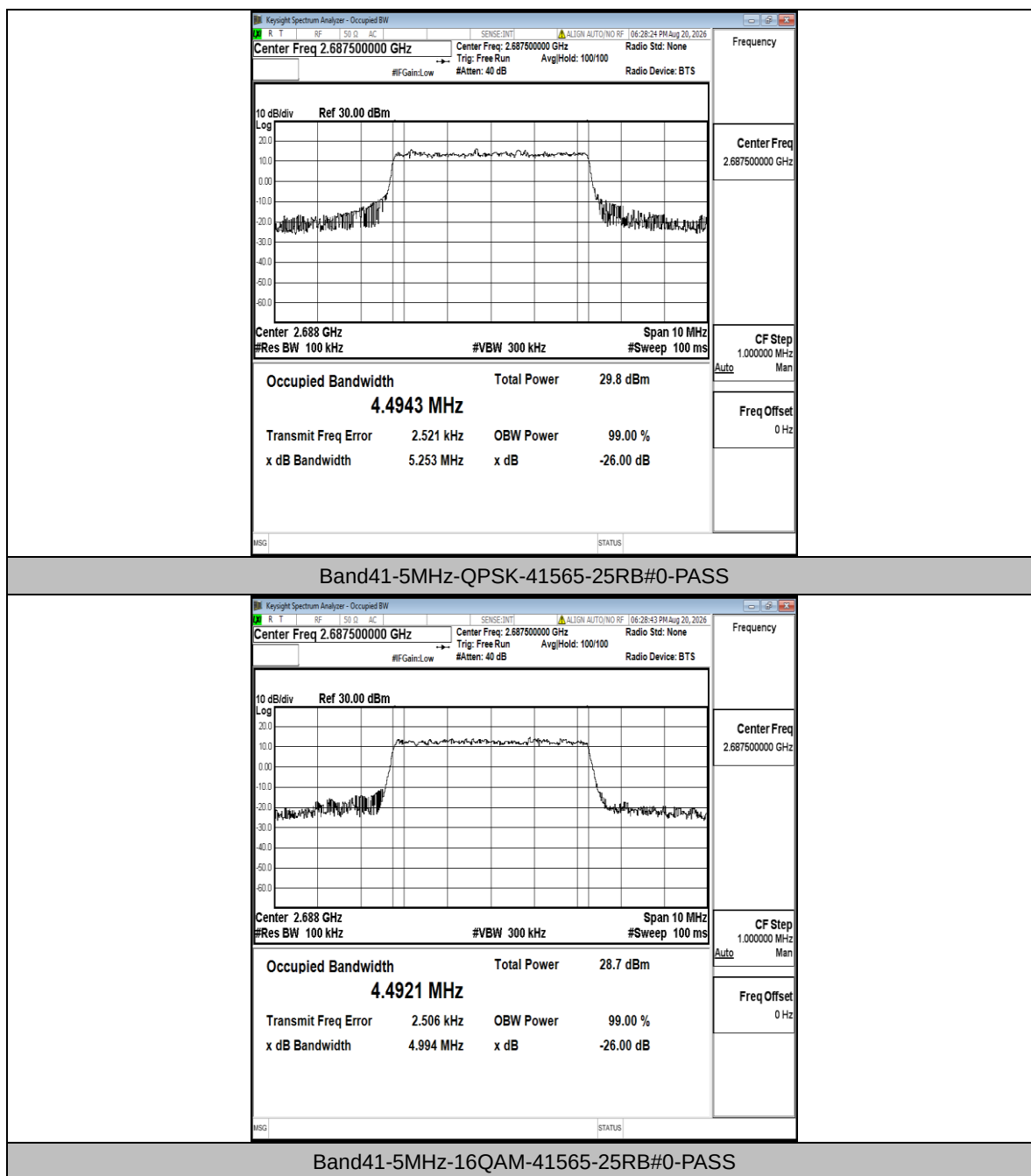
Test Result

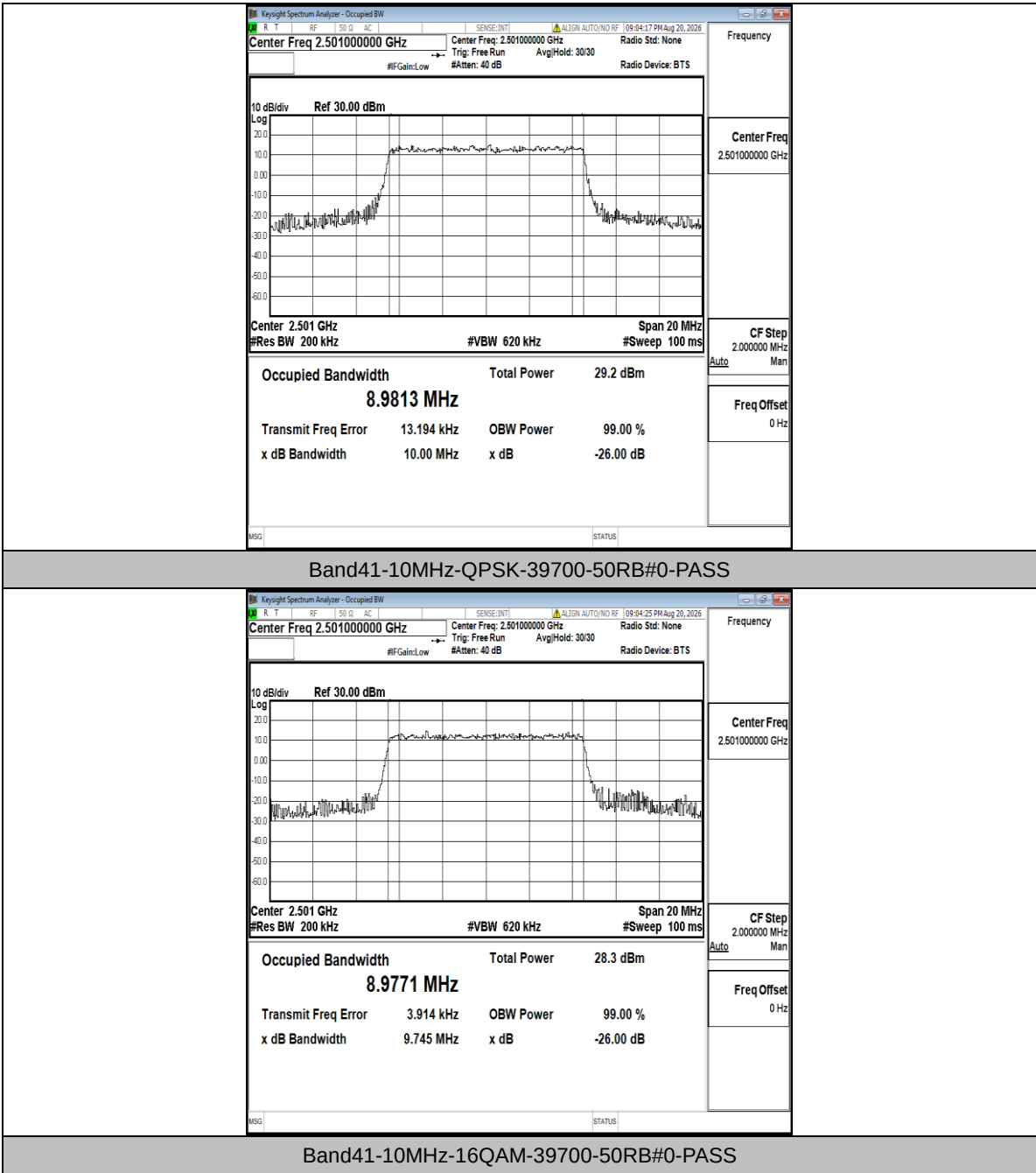
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4924	4.941	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4957	5.236	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4911	4.947	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4949	5.232	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4943	5.253	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4921	4.994	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9813	10.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9771	9.745	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9926	10.44	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9785	9.903	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9843	9.821	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.0057	11.14	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.468	15.26	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.490	16.16	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.480	14.94	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.492	15.38	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.488	15.13	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.483	15.93	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.969	19.98	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.945	19.77	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.968	19.61	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.947	19.81	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.961	19.60	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.921	19.73	PASS

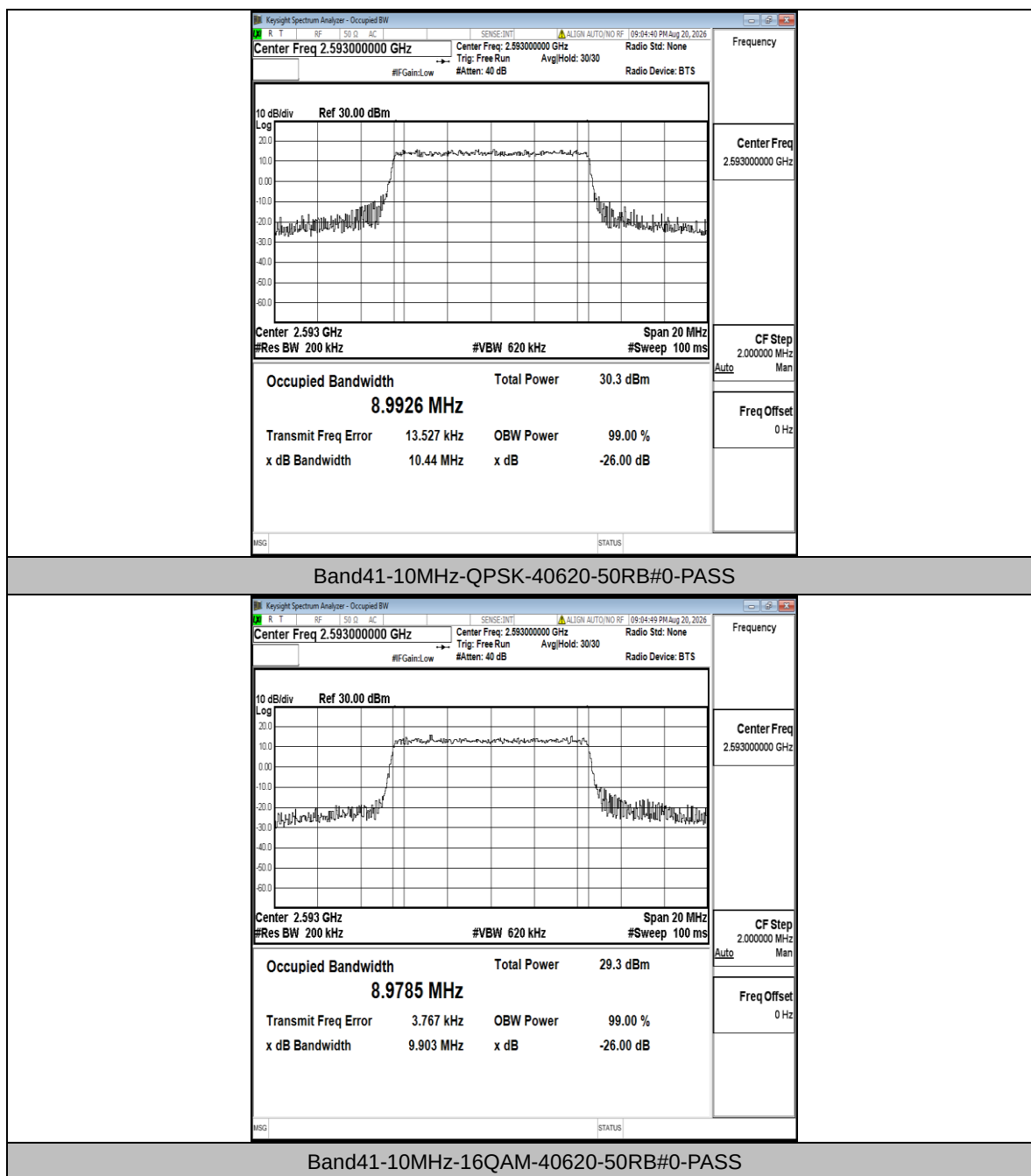
Test Graphs

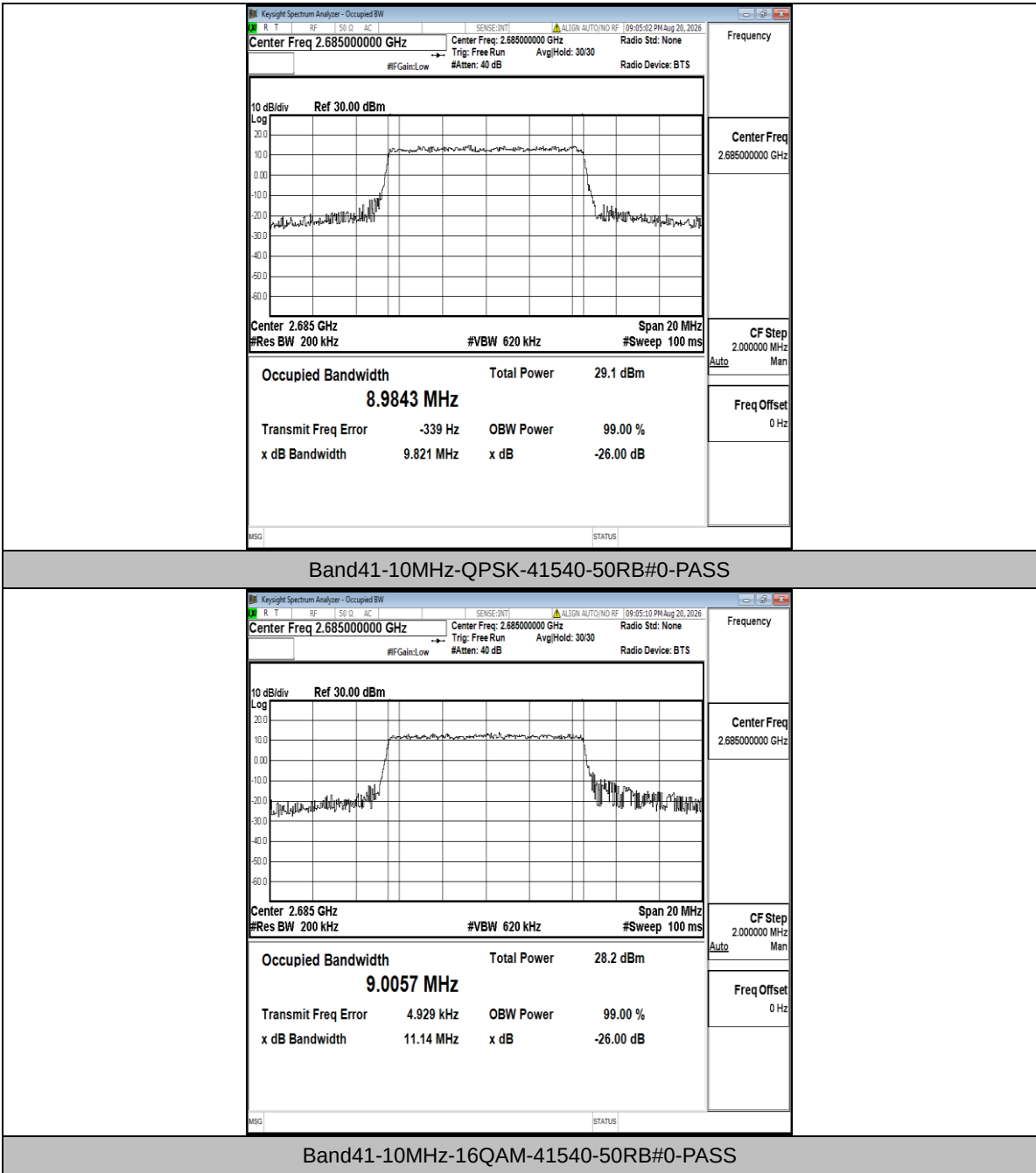


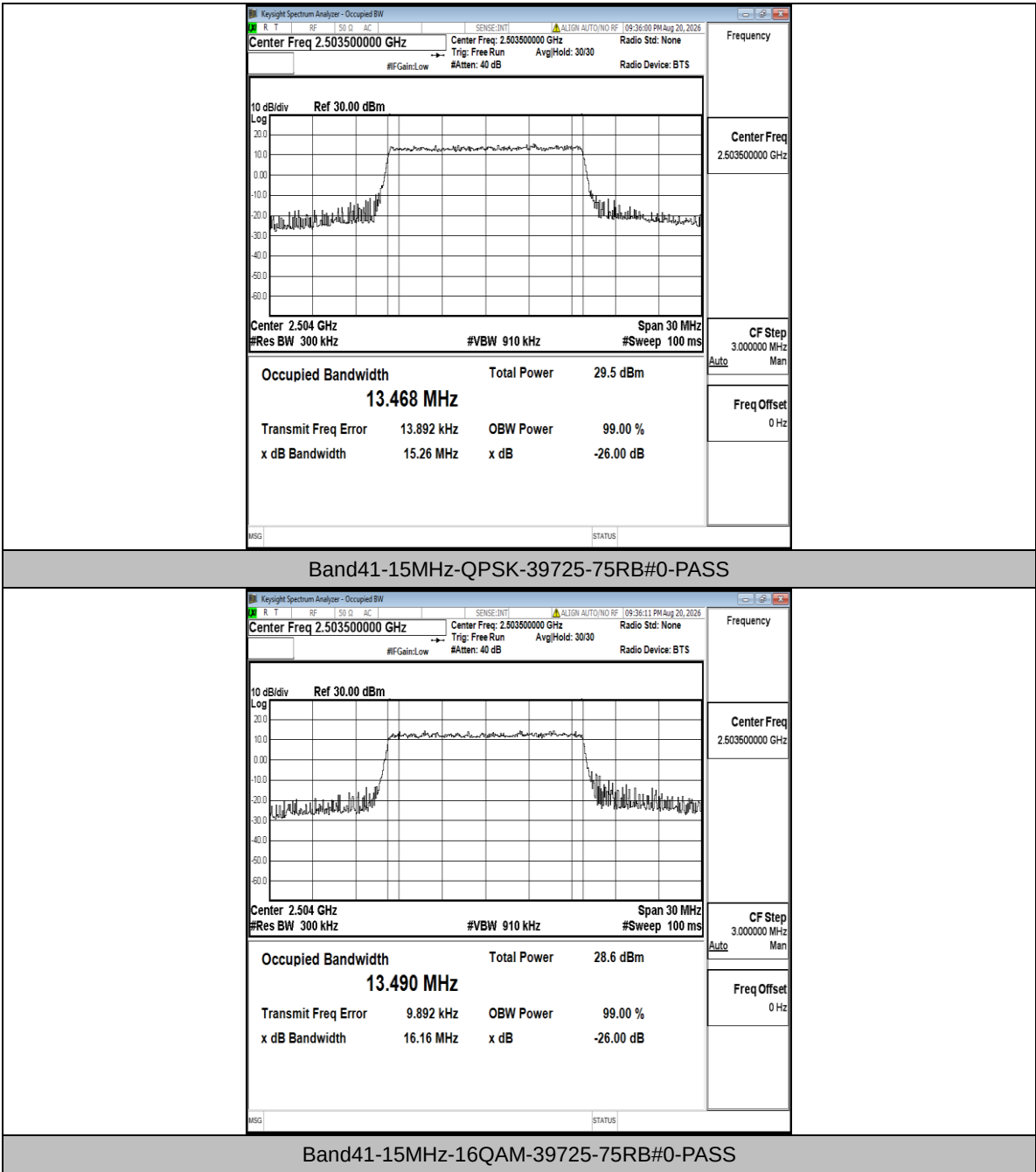


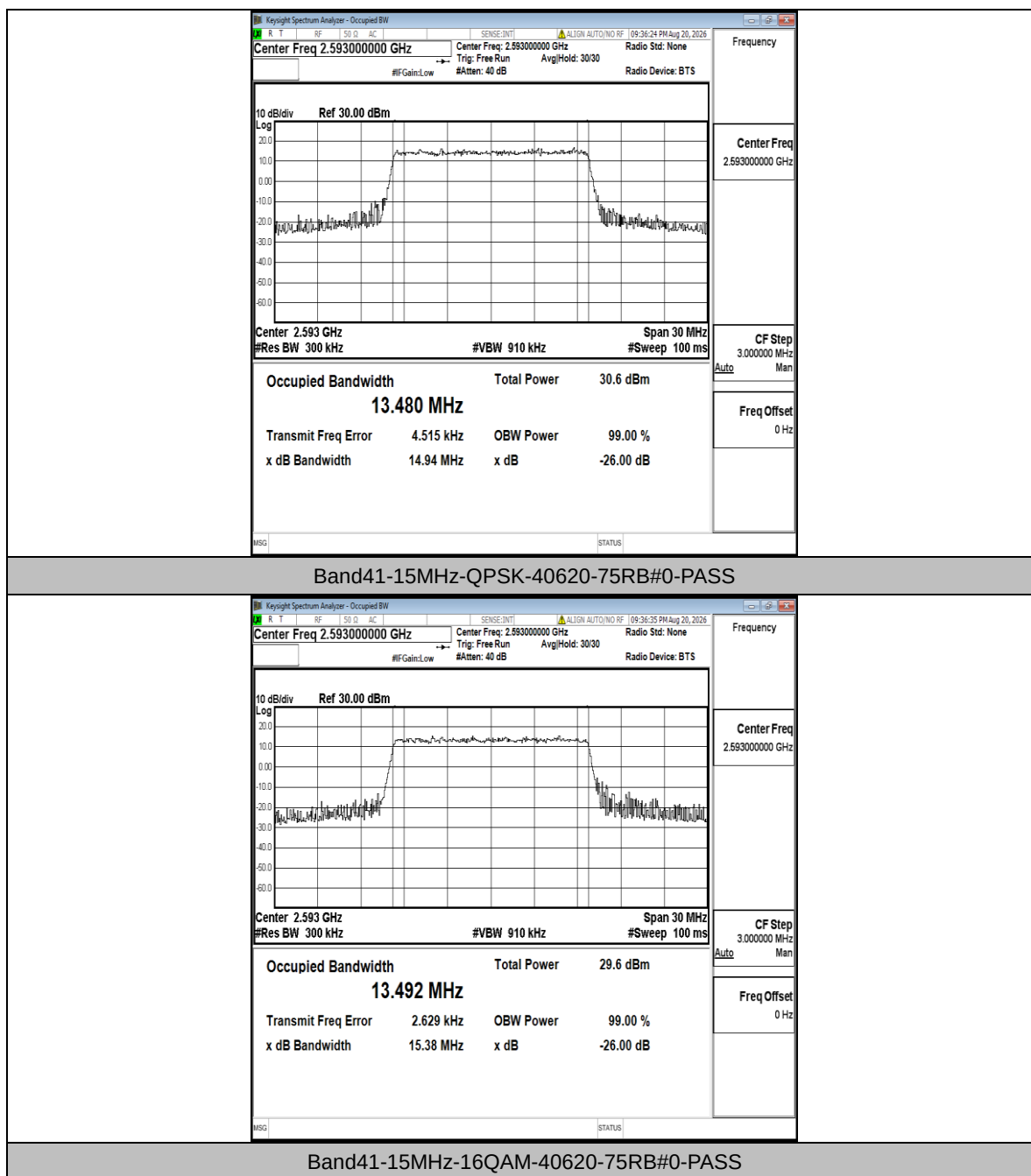


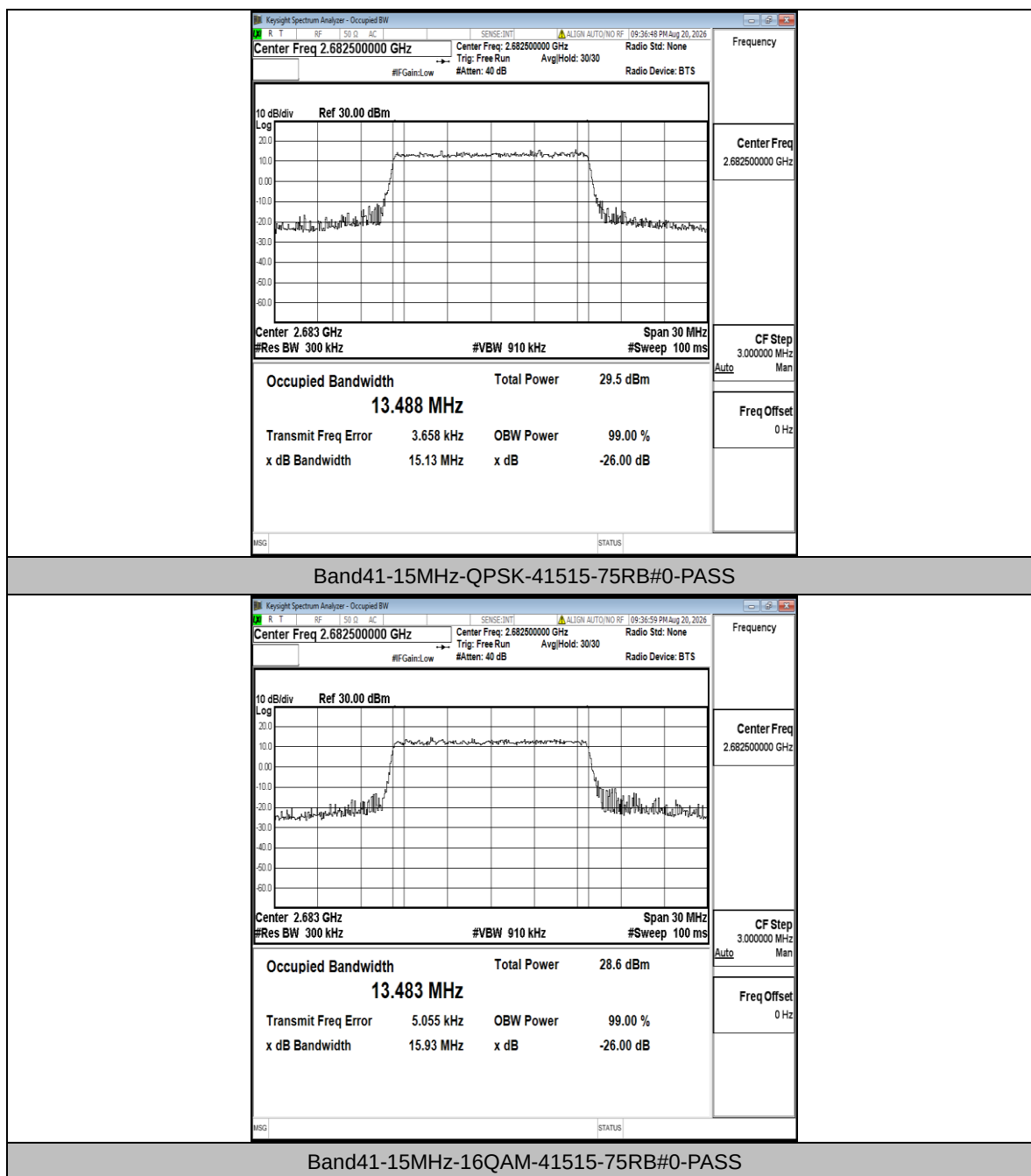


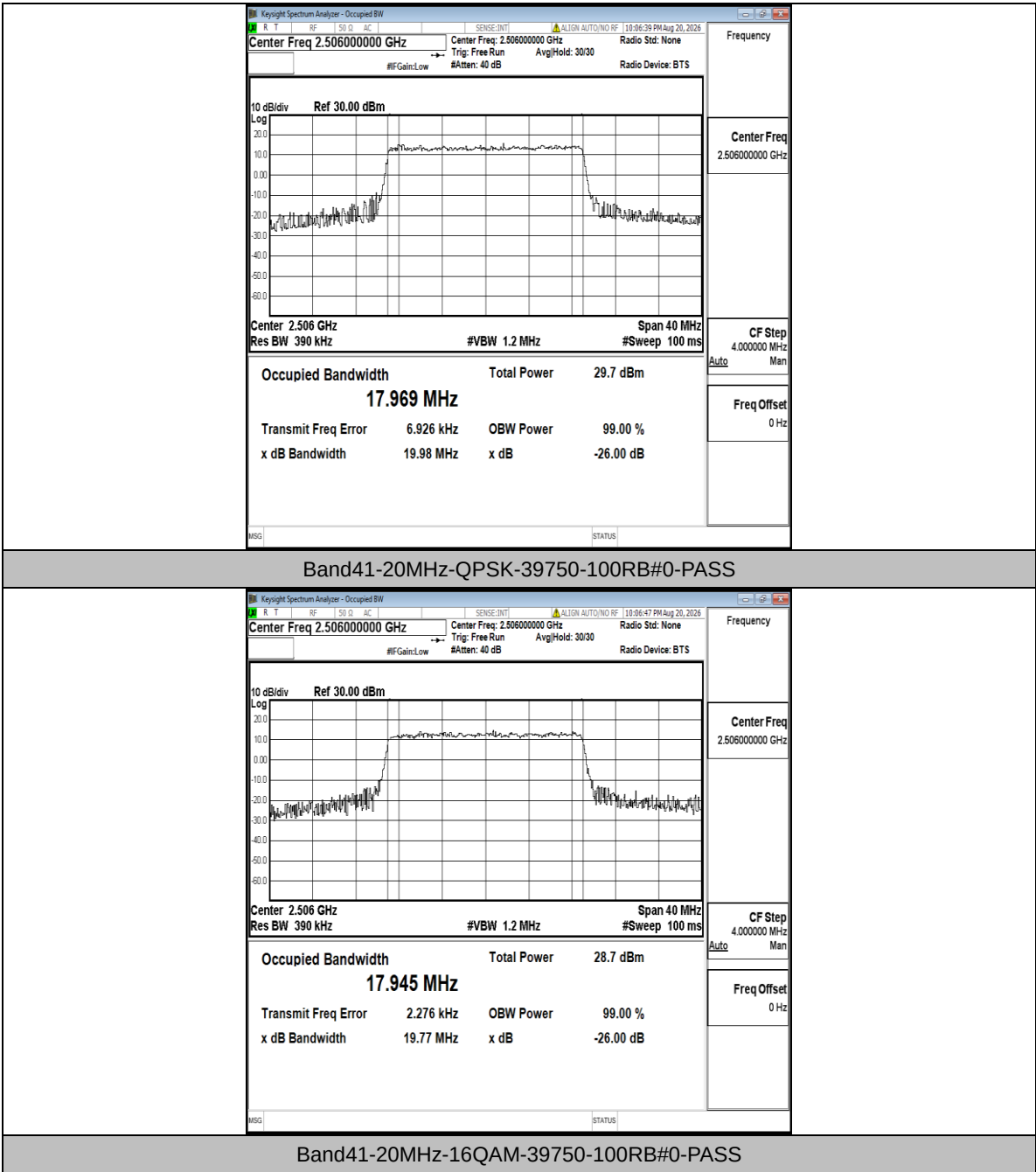


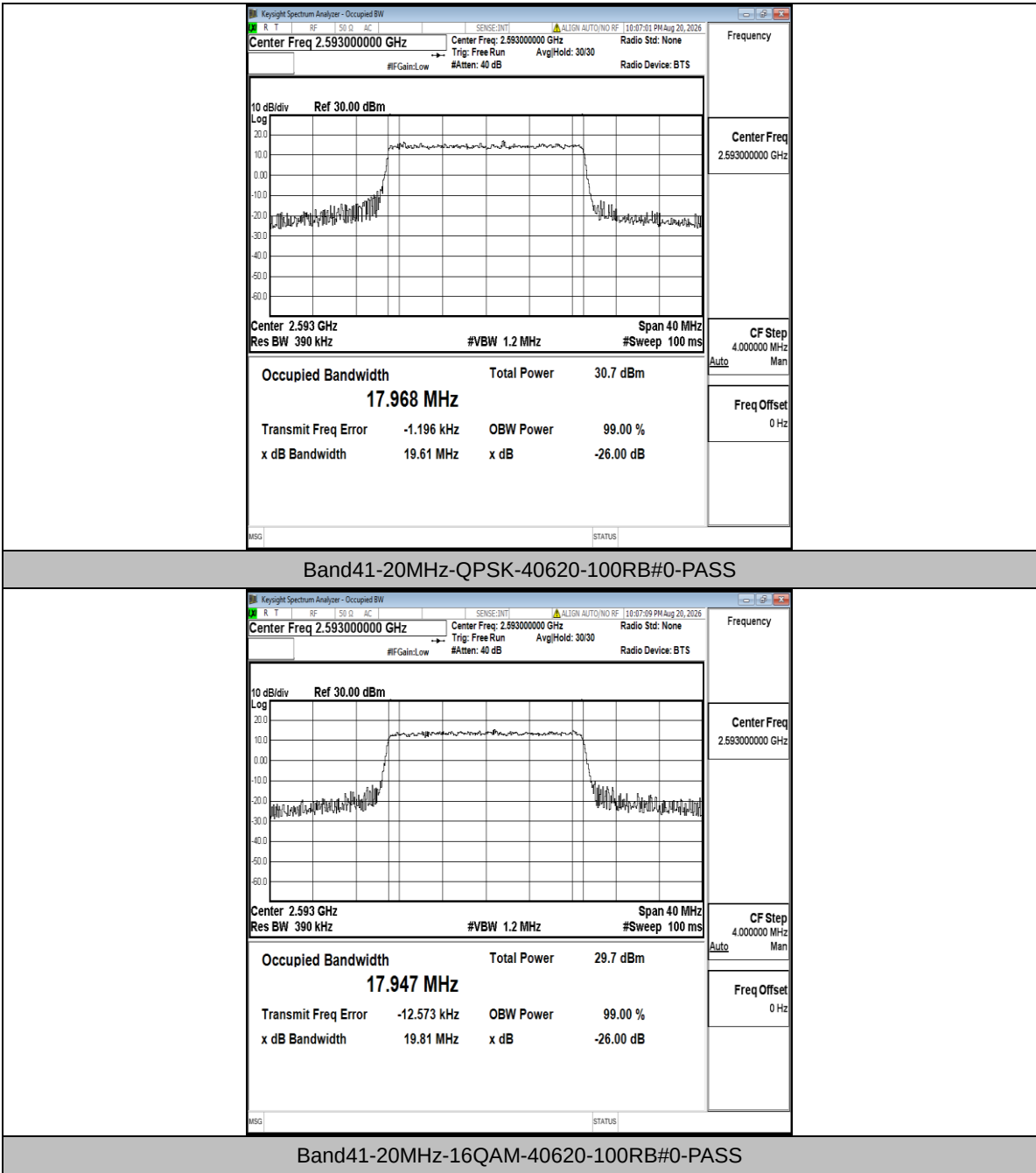


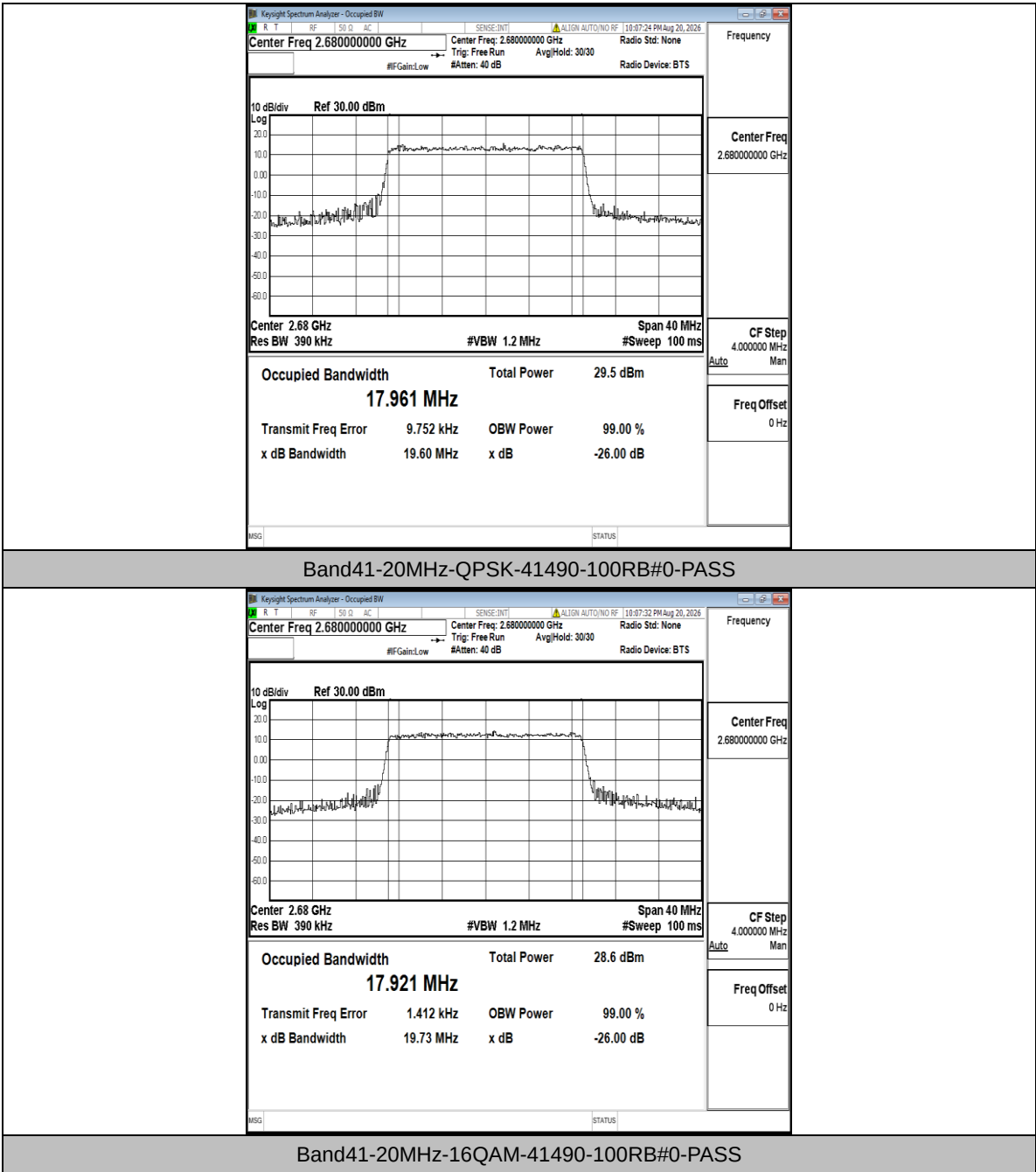












O.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	2489.00	-43.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	2490.00	-43.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	2697.00	-36.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	2696.00	-38.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	2490.00	-36.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	2490.00	-37.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	2704.00	-35.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	2701.00	-35.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	2490.00	-35.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	2490.00	-35.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	2708.00	-33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	2705.00	-34.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	2490.00	-34.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	2489.00	-35.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	2712.00	-33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	2715.00	-32.00	PASS

Test Graphs

