



**BUREAU
VERITAS**

Test Report No.: W7L-P22070038RF06

3										
Band1 3	10MHz	64QAM	23230	50RB#0	NV	-20	27.22	0.034808	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	0	31.86	0.040742	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	10	32.77	0.041905	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	20	33.33	0.042621	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	30	37.45	0.047890	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	40	42.83	0.054770	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	50	46.19	0.059066	±2.5	PASS

LTE BAND41

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	5.73	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	5.37	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	5.68	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.41	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	5.59	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.27	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	6.25	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	6.15	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	6.07	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	6.21	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	6.48	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.04	13	PASS
Band41	5MHz	64QAM	39675	1RB#0	6.18	13	PASS
Band41	5MHz	64QAM	39675	25RB#0	6.42	13	PASS
Band41	5MHz	64QAM	40620	1RB#0	6.60	13	PASS
Band41	5MHz	64QAM	40620	25RB#0	6.70	13	PASS
Band41	5MHz	64QAM	41565	1RB#0	6.18	13	PASS
Band41	5MHz	64QAM	41565	25RB#0	6.58	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	6.30	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.37	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	5.72	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.47	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	5.28	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.36	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	6.22	13	PASS



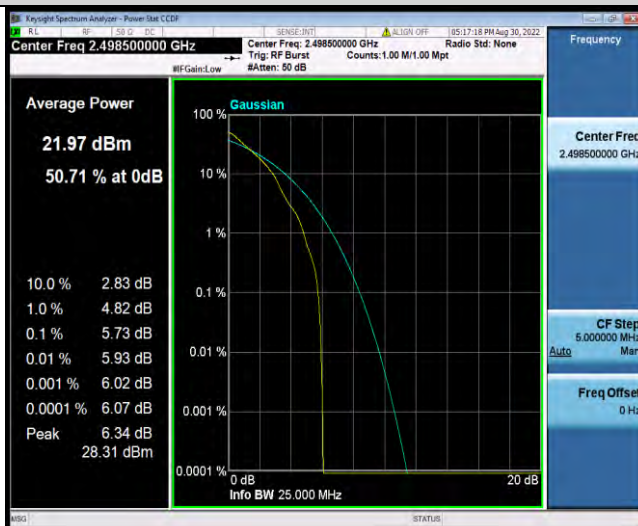
**BUREAU
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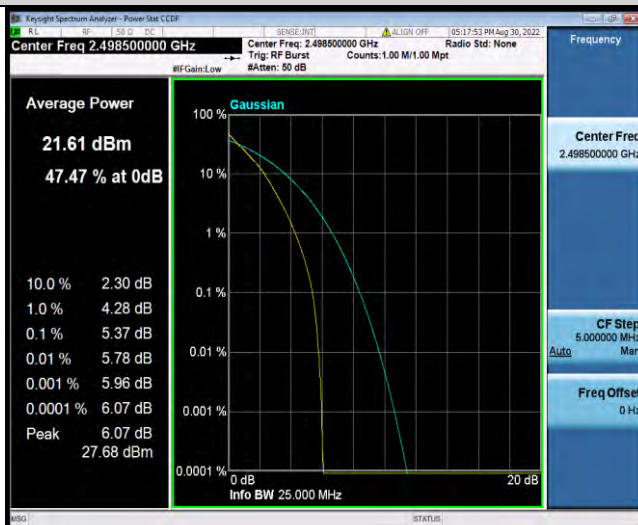
Band41	10MHz	16QAM	39700	50RB#0	6.14	13	PASS
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Band41	10MHz	16QAM	40620	50RB#0	6.10	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	6.31	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.07	13	PASS
Band41	10MHz	64QAM	39700	1RB#0	6.28	13	PASS
Band41	10MHz	64QAM	39700	50RB#0	6.80	13	PASS
Band41	10MHz	64QAM	40620	1RB#0	6.76	13	PASS
Band41	10MHz	64QAM	40620	50RB#0	7.22	13	PASS
Band41	10MHz	64QAM	41540	1RB#0	6.84	13	PASS
Band41	10MHz	64QAM	41540	50RB#0	7.57	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	6.43	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.70	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	6.25	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.76	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	5.31	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.62	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	6.62	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	6.20	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	6.69	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.21	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	6.41	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.16	13	PASS
Band41	15MHz	64QAM	39725	1RB#0	7.10	13	PASS
Band41	15MHz	64QAM	39725	75RB#0	6.53	13	PASS
Band41	15MHz	64QAM	40620	1RB#0	6.42	13	PASS
Band41	15MHz	64QAM	40620	75RB#0	6.32	13	PASS
Band41	15MHz	64QAM	41515	1RB#0	6.14	13	PASS
Band41	15MHz	64QAM	41515	75RB#0	6.24	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	4.94	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.48	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	5.61	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.64	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	5.09	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.48	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	5.67	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.17	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	6.42	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.26	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	5.66	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.15	13	PASS
Band41	20MHz	64QAM	39750	1RB#0	7.01	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	6.46	13	PASS
Band41	20MHz	64QAM	40620	1RB#0	6.35	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.35	13	PASS
Band41	20MHz	64QAM	41490	1RB#0	6.83	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	6.38	13	PASS

Test Graphs

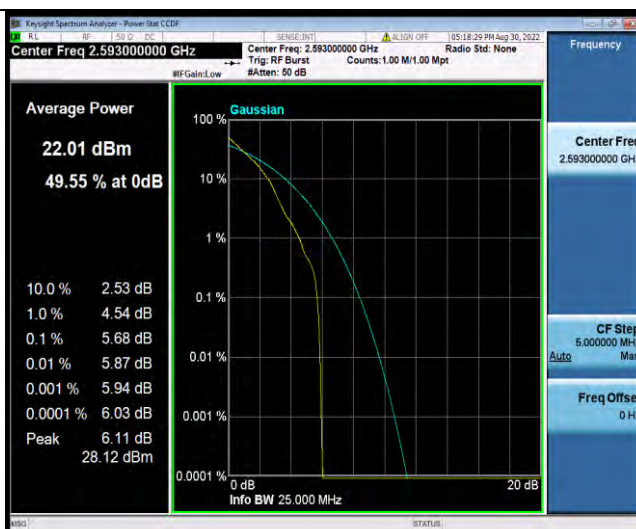
Band41-5MHz-QPSK-39675-1RB#0



Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-40620-1RB#0



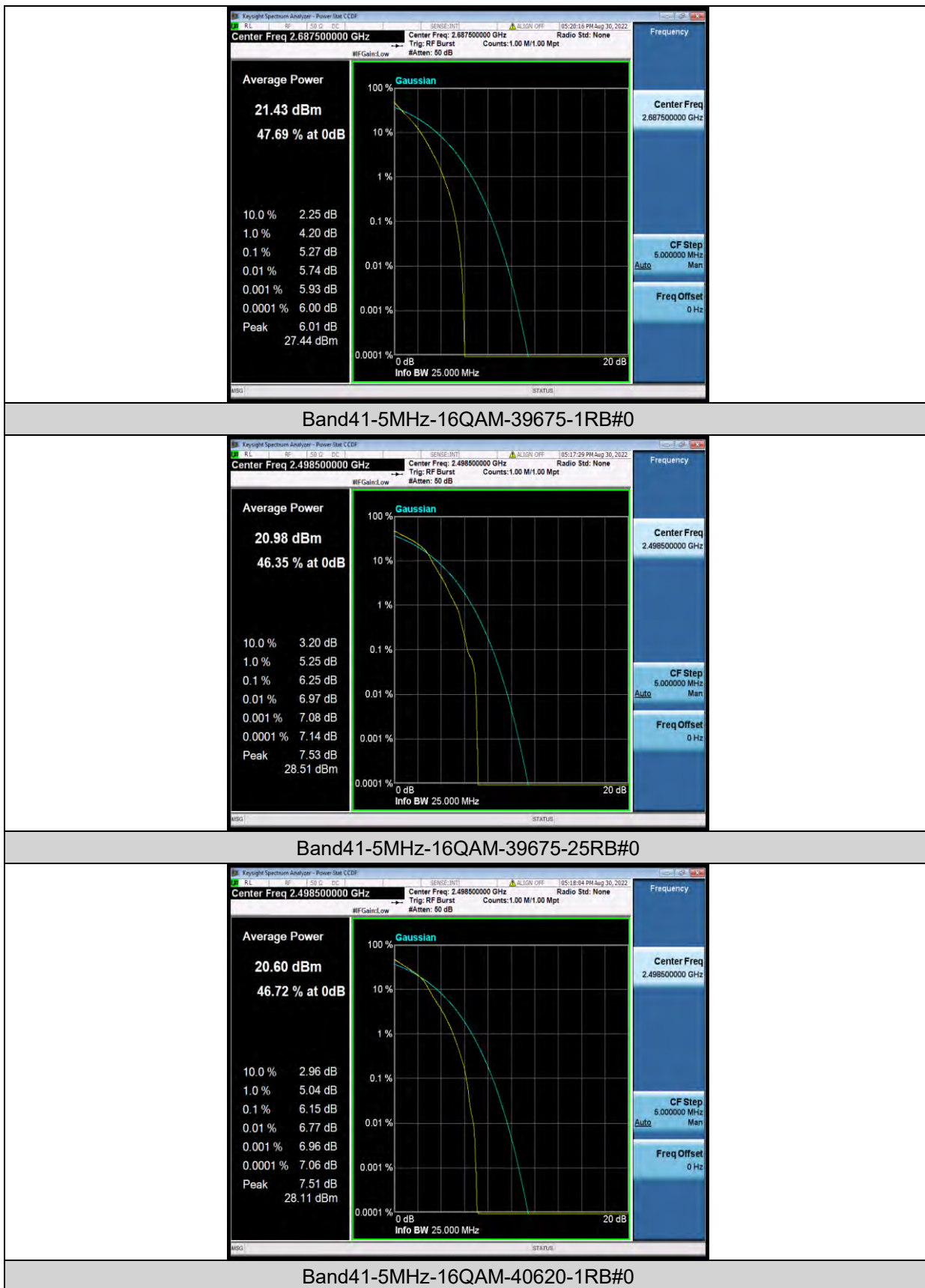
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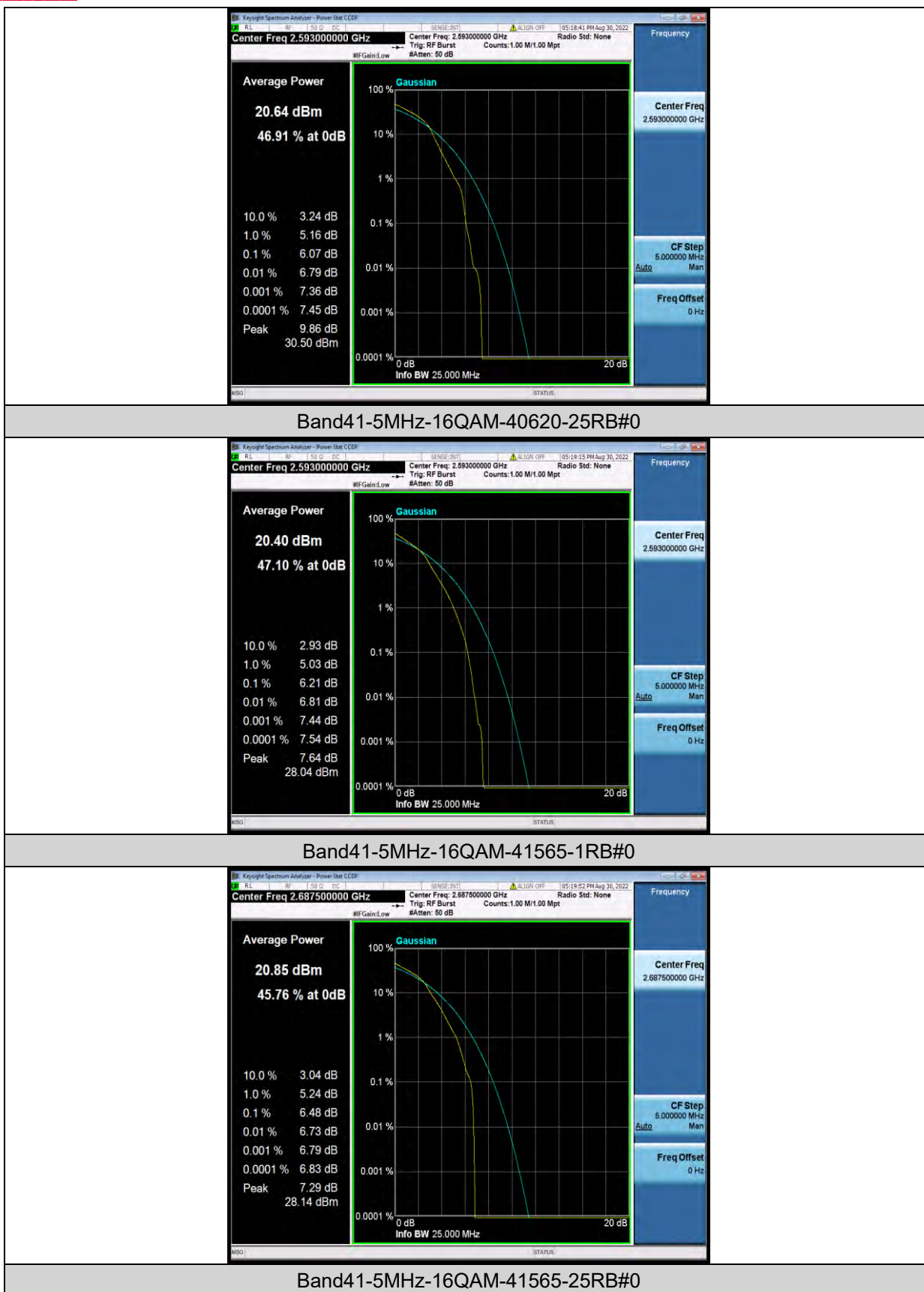


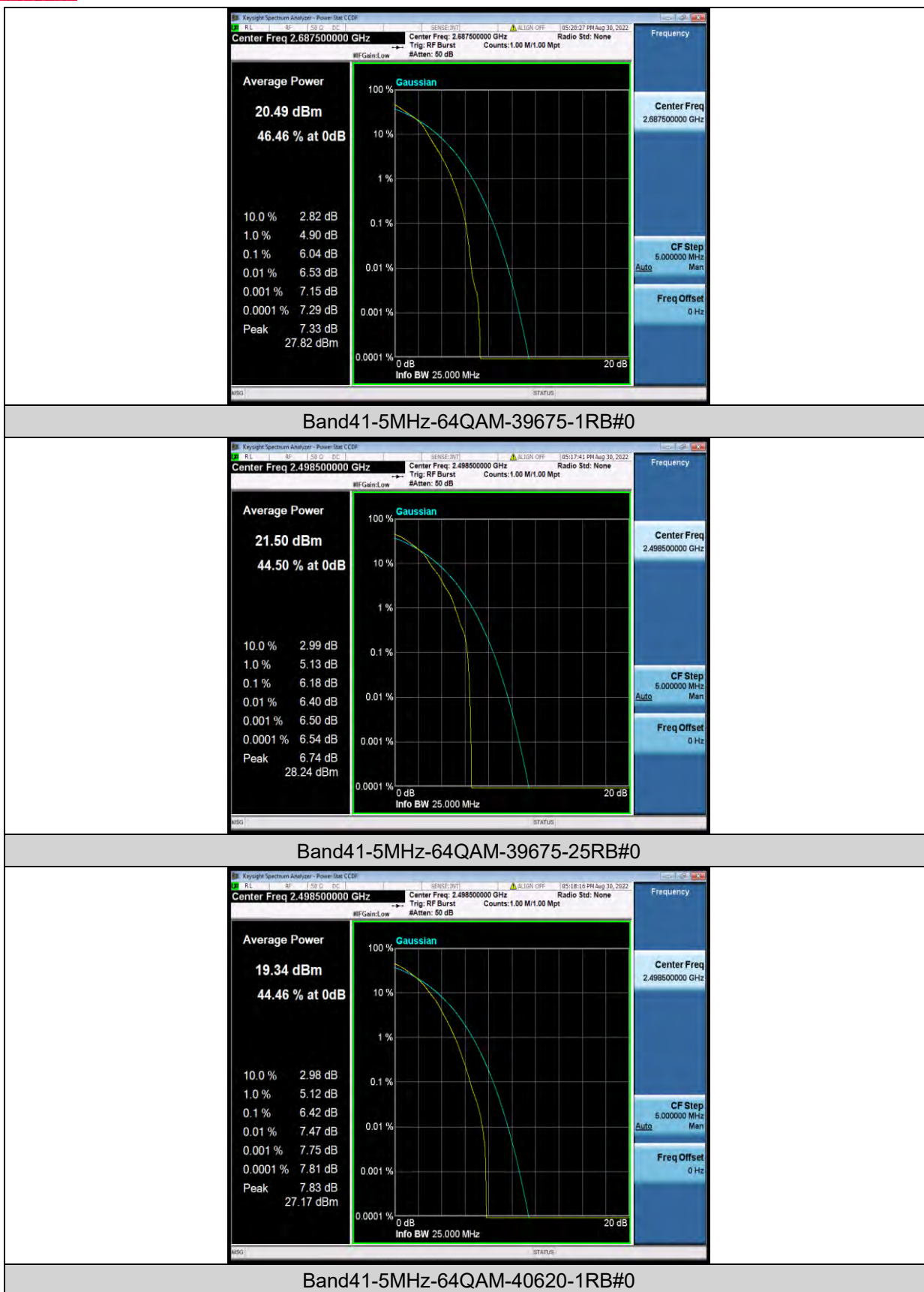
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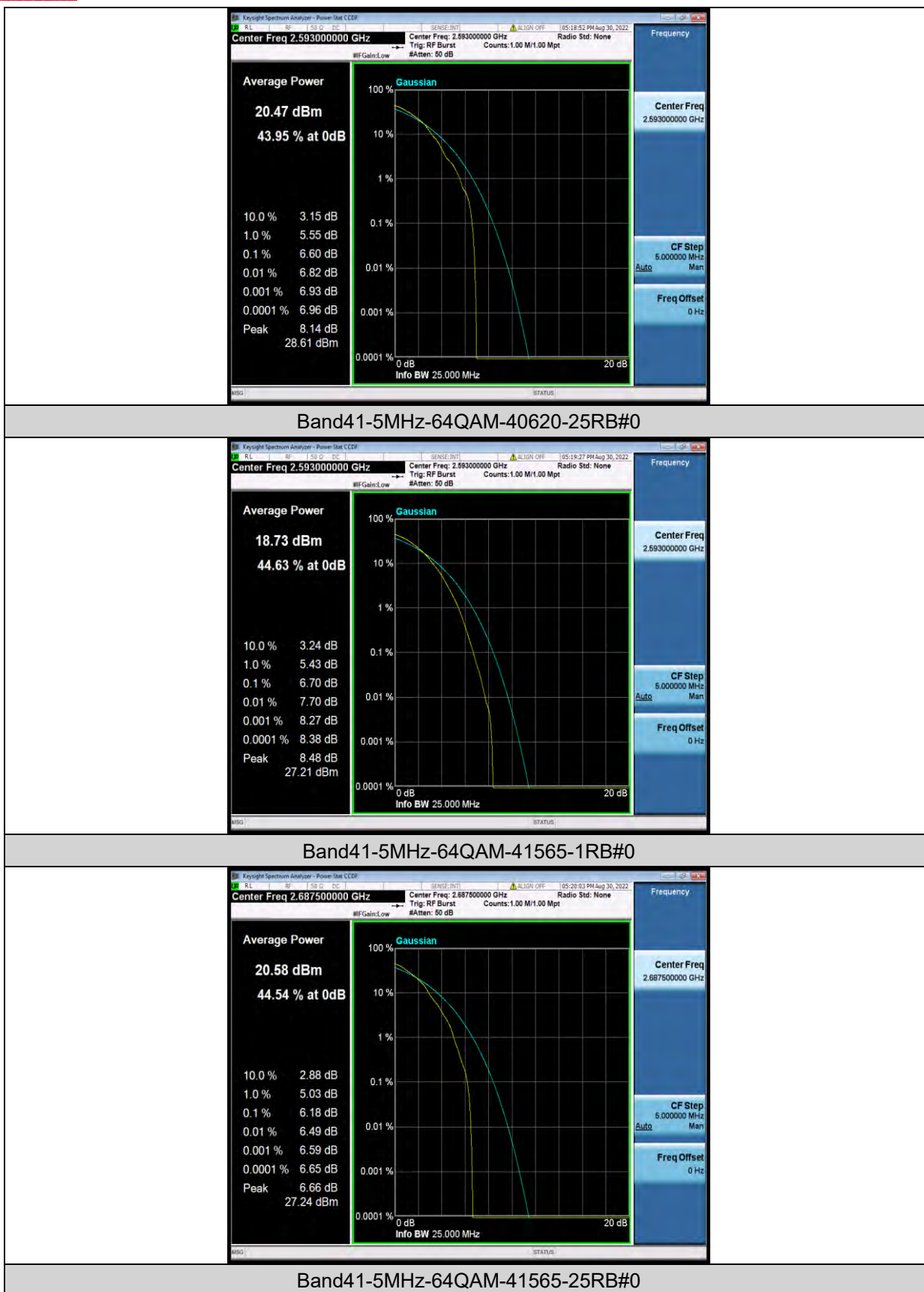


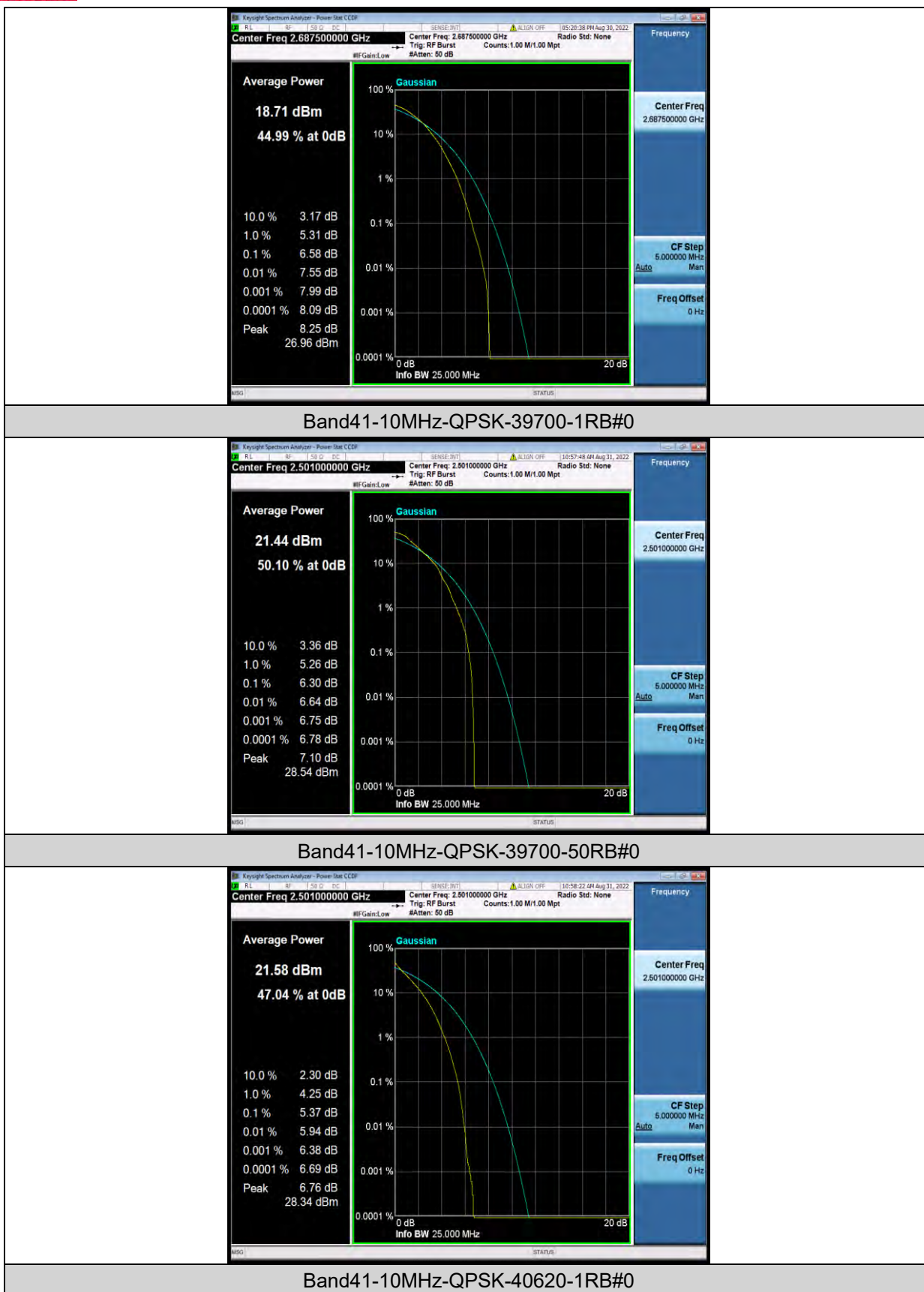
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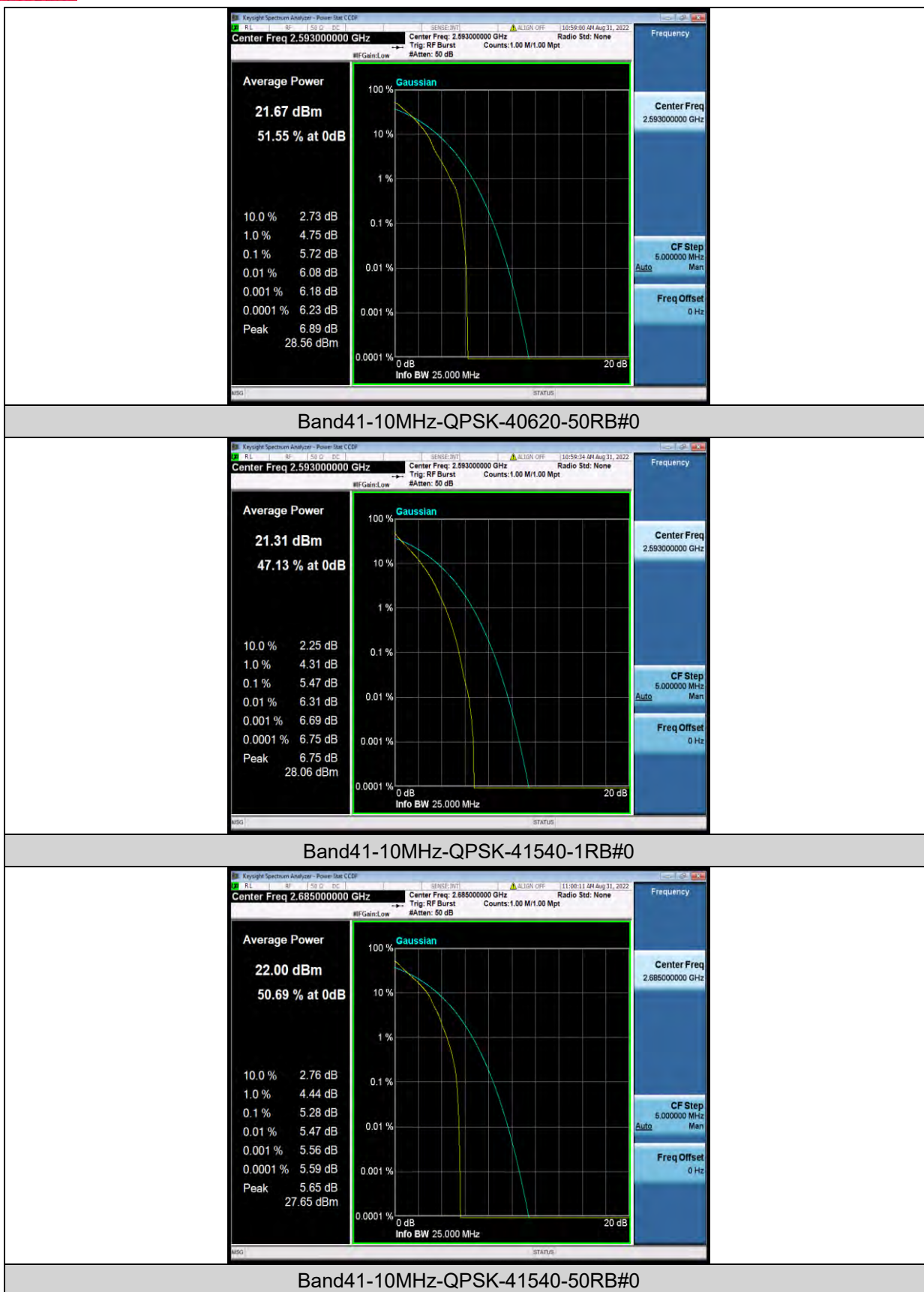


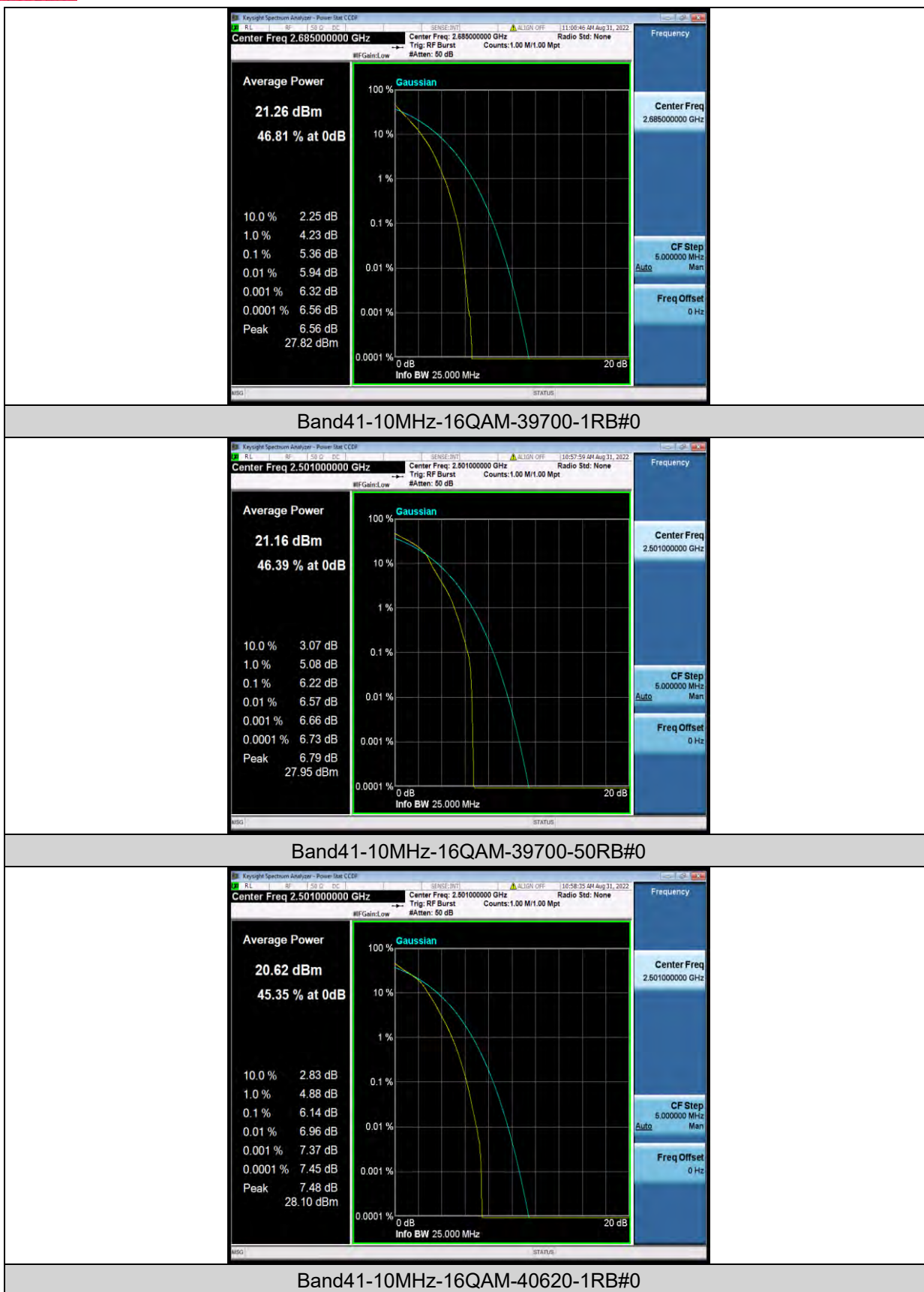


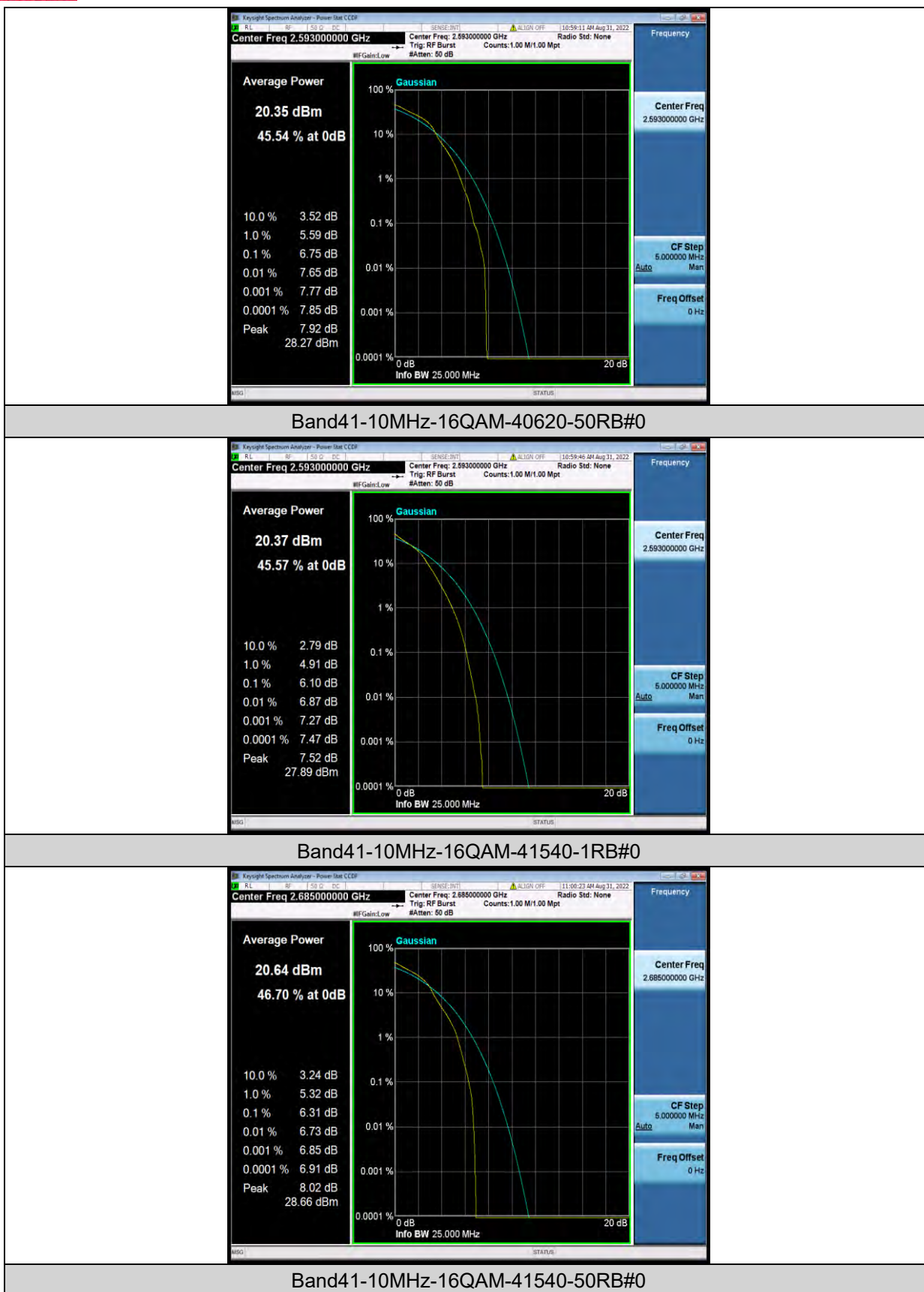


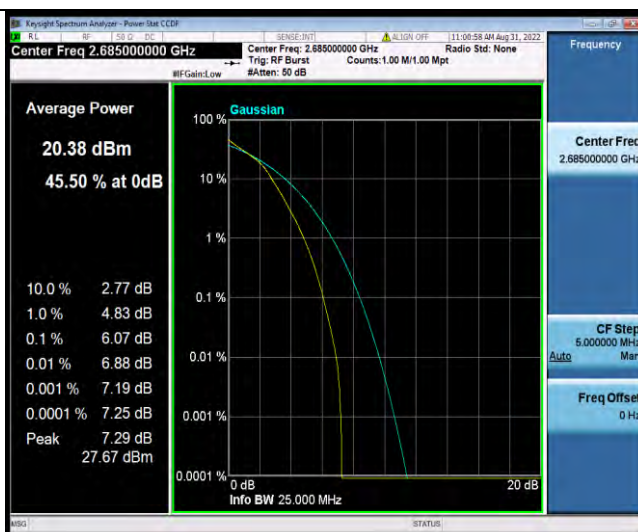








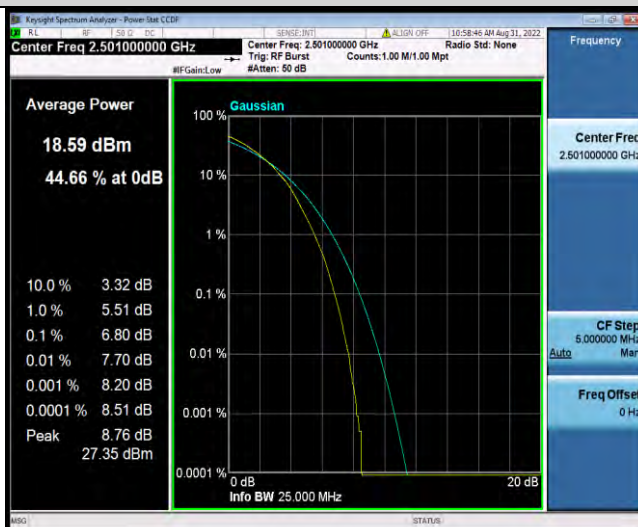




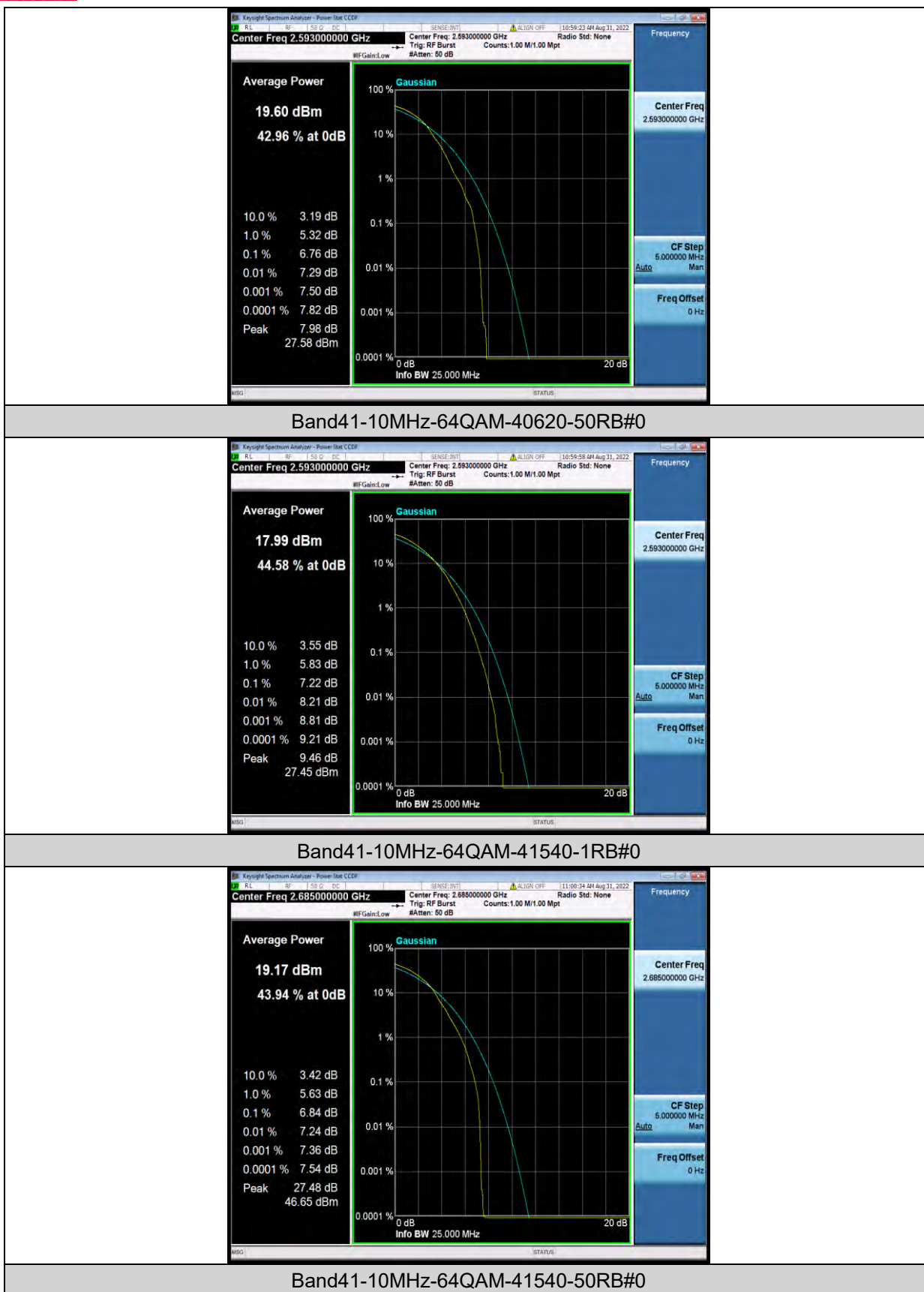
Band41-10MHz-64QAM-39700-1RB#0

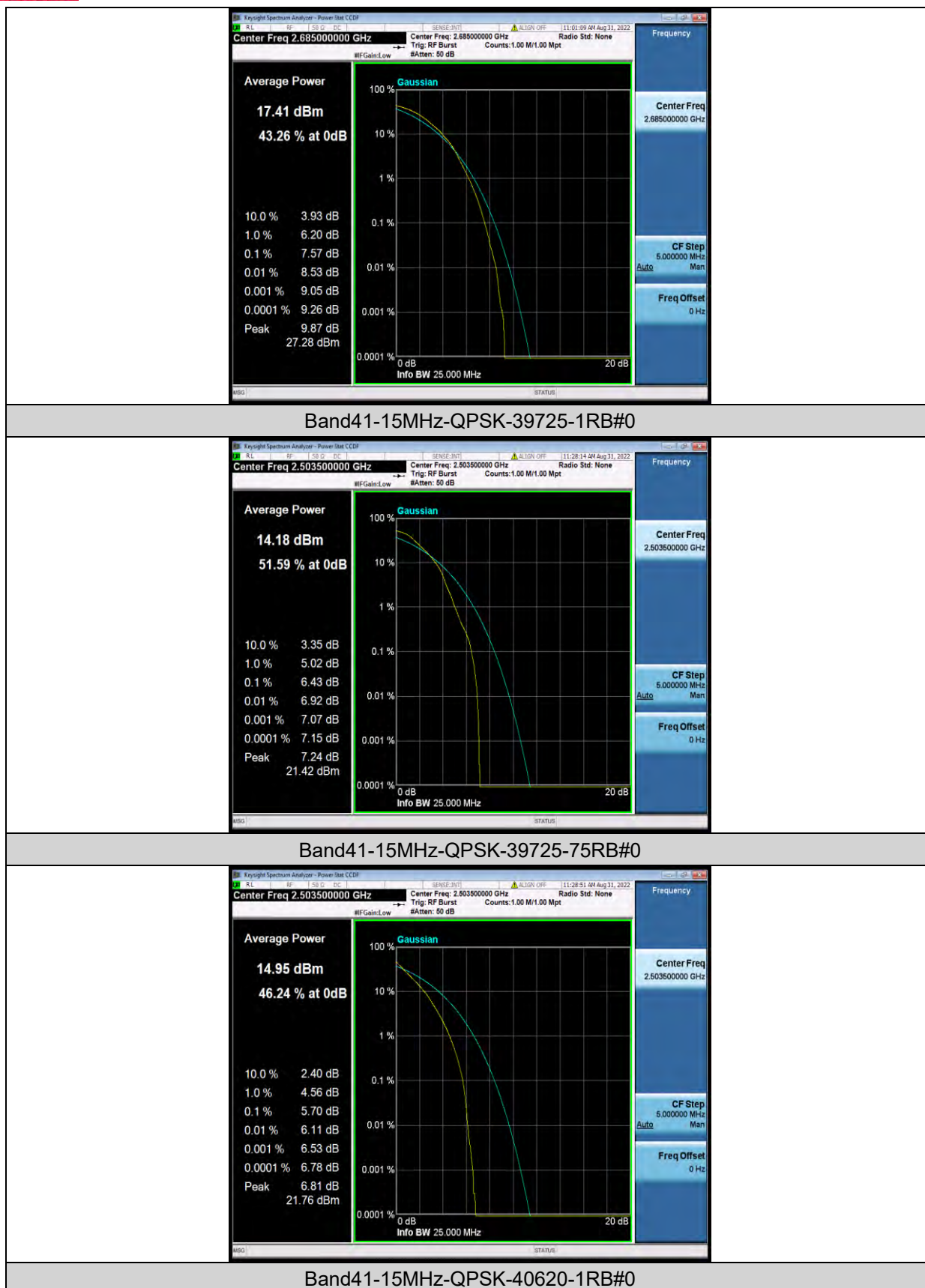


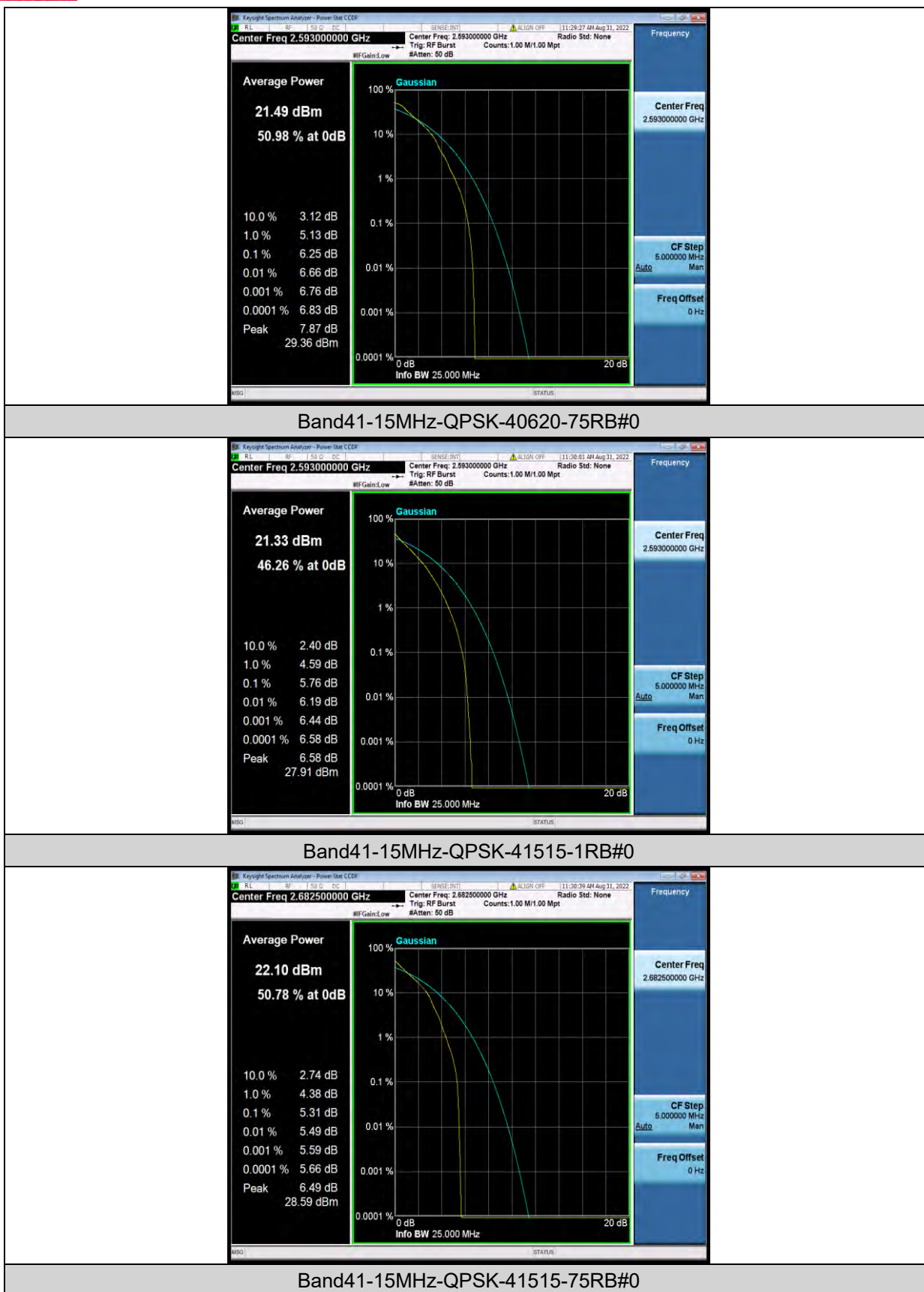
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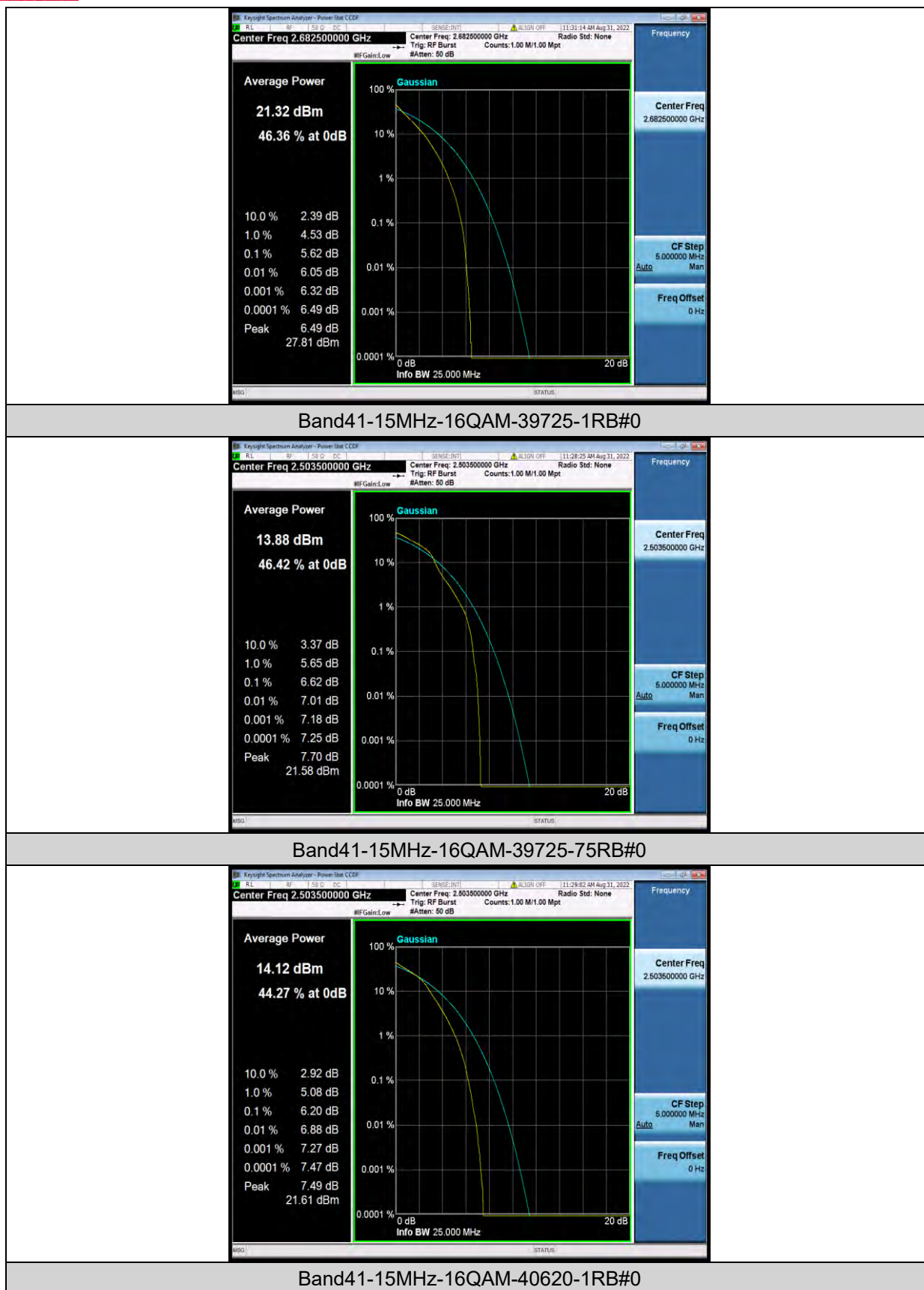


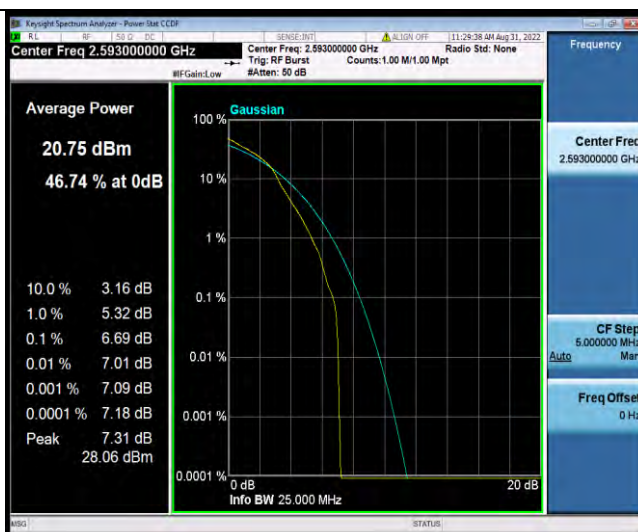
Band41-10MHz-64QAM-40620-1RB#0







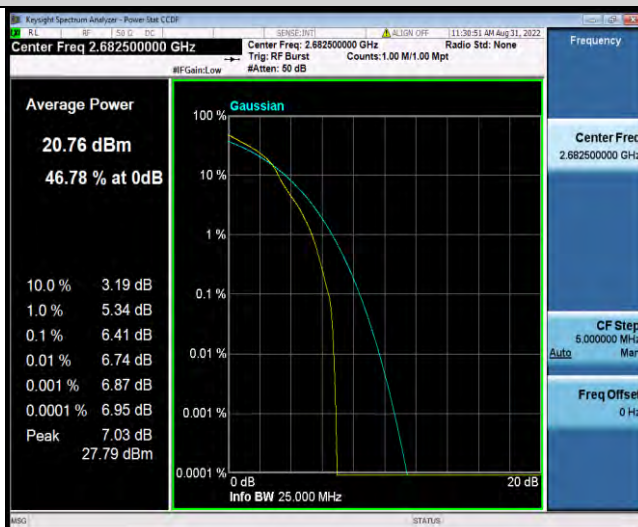




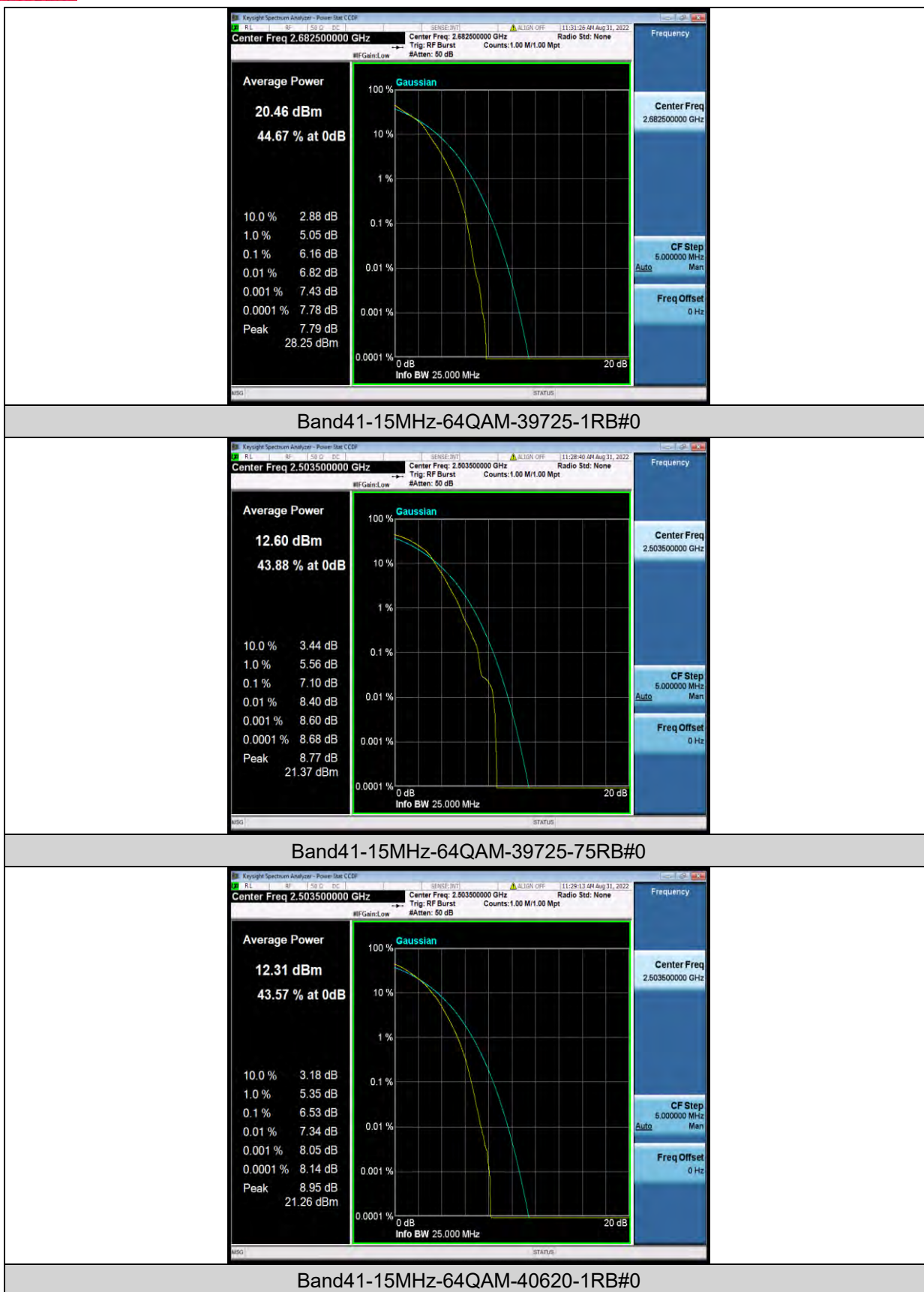
Band41-15MHz-16QAM-40620-75RB#0

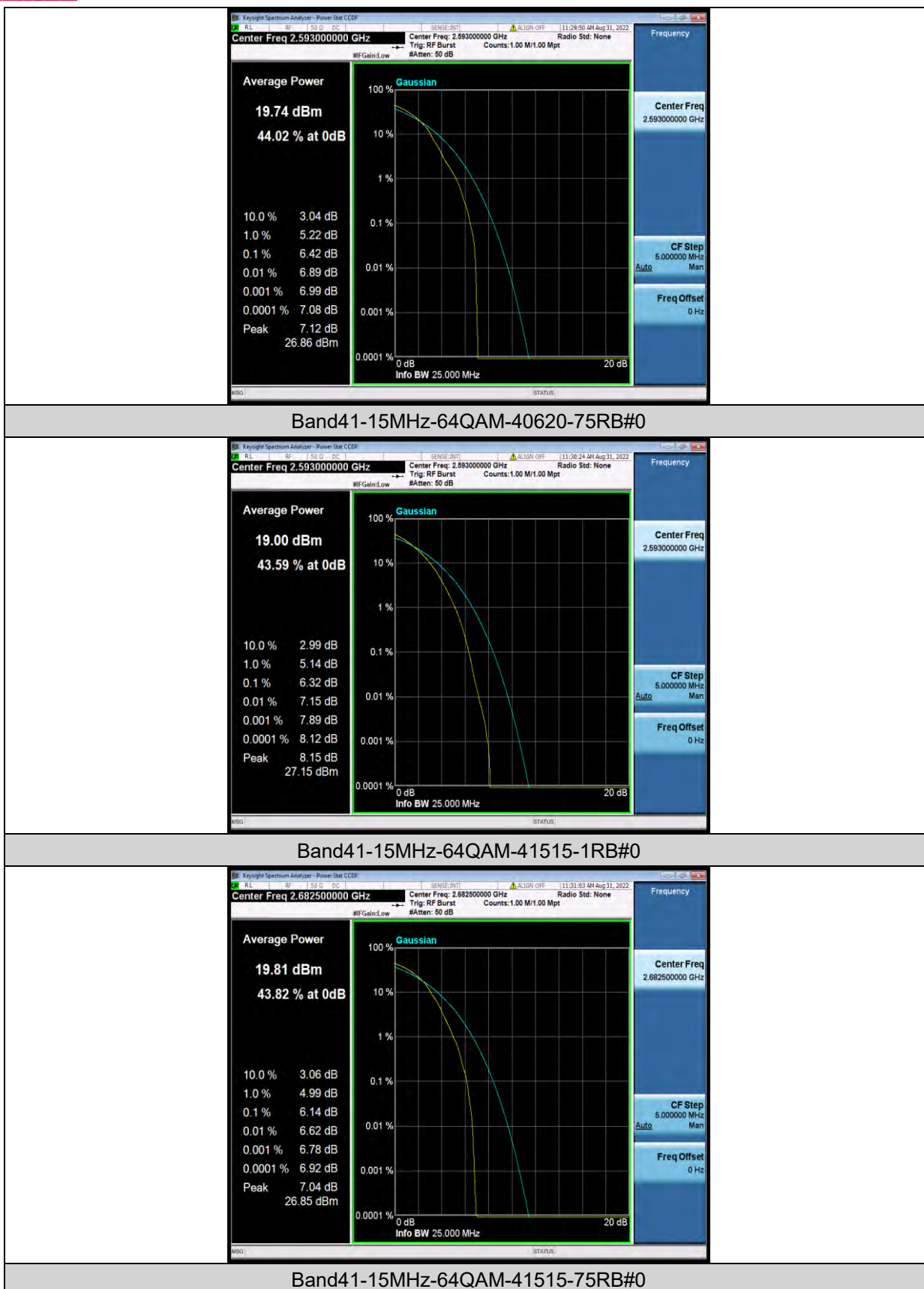


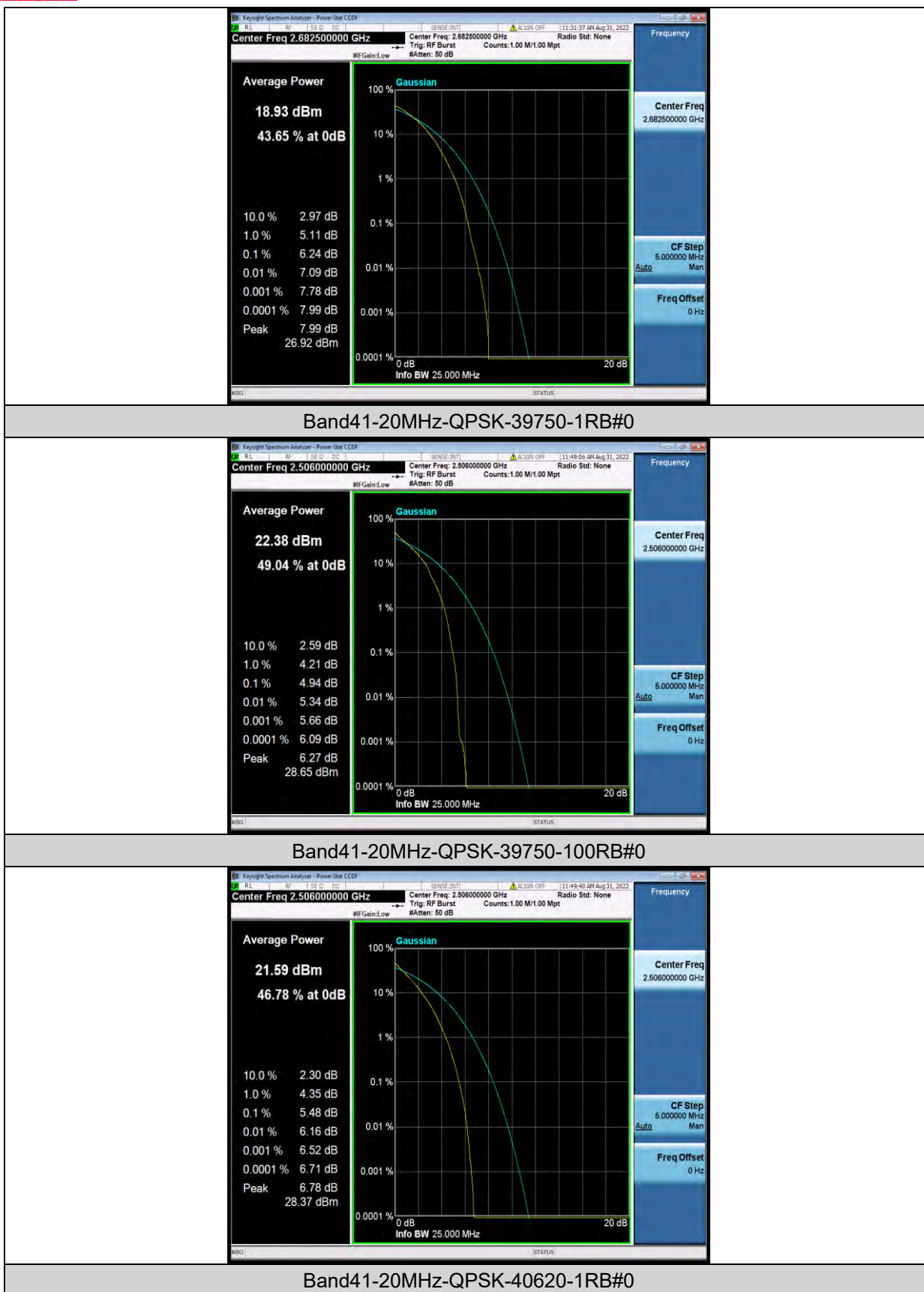
Band41-15MHz-16QAM-41515-1RB#0

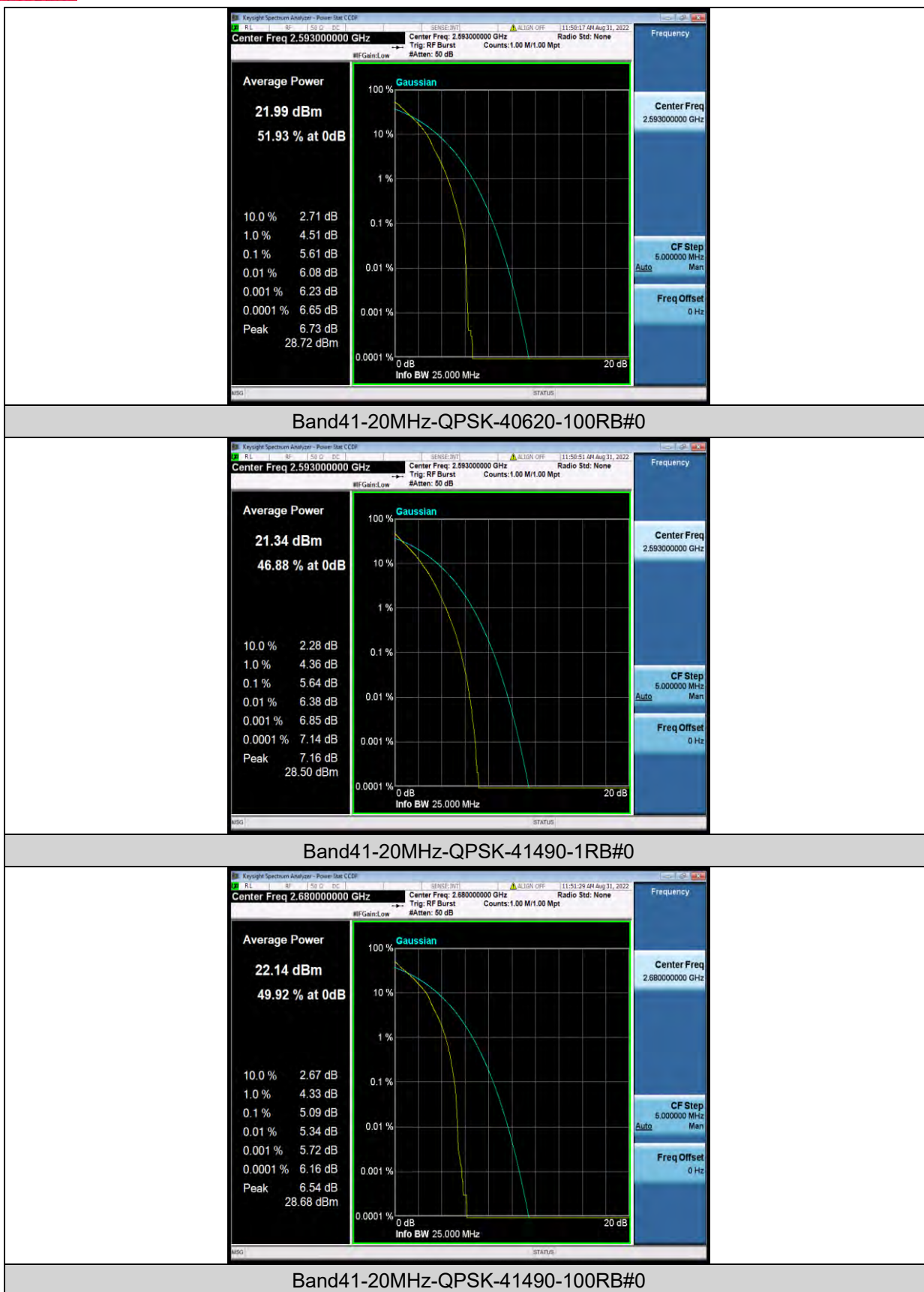


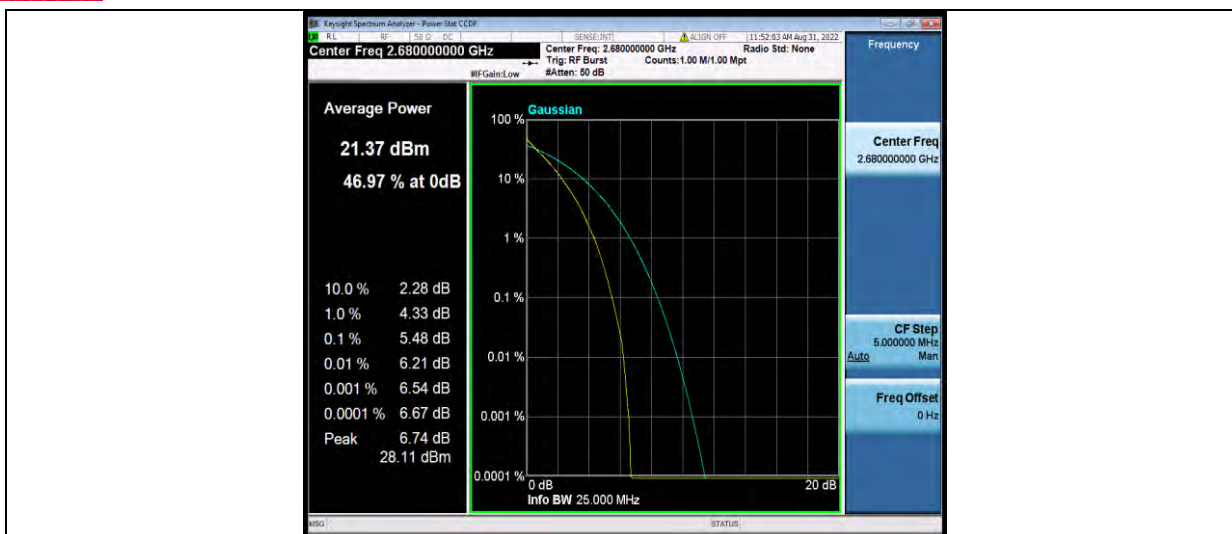
Band41-15MHz-16QAM-41515-75RB#0



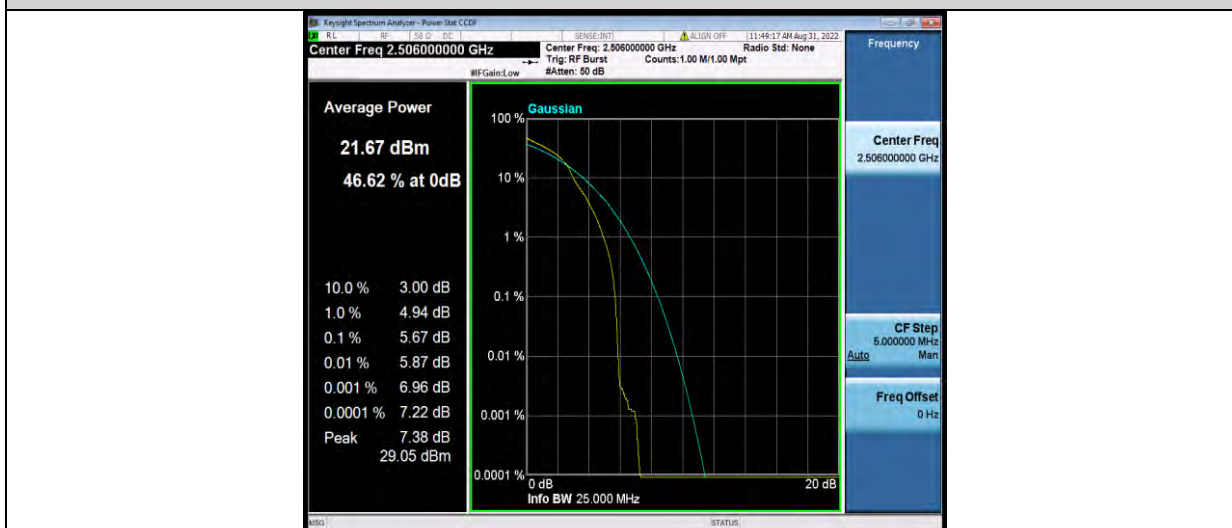




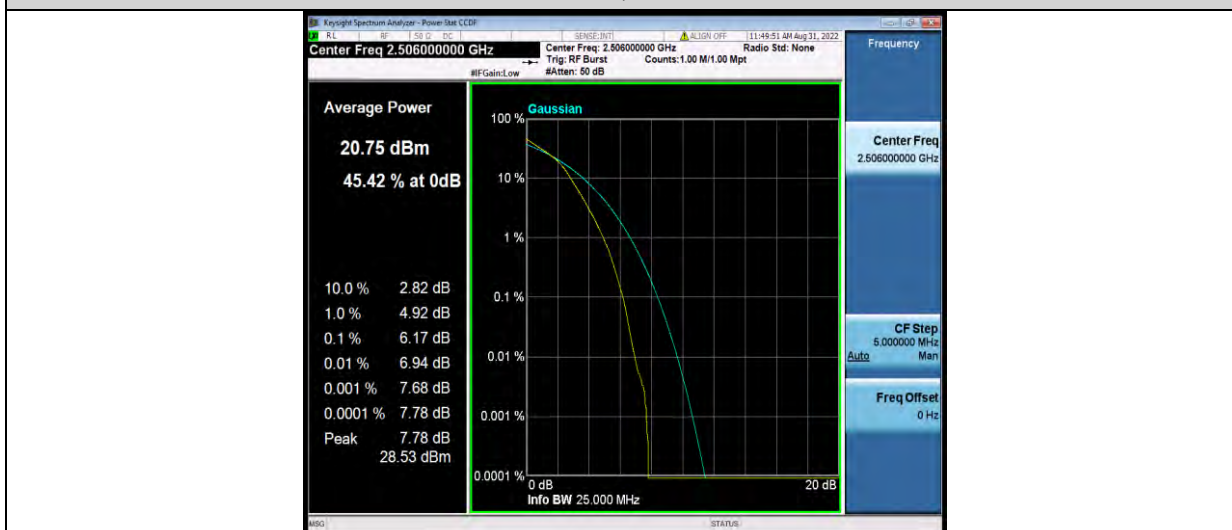




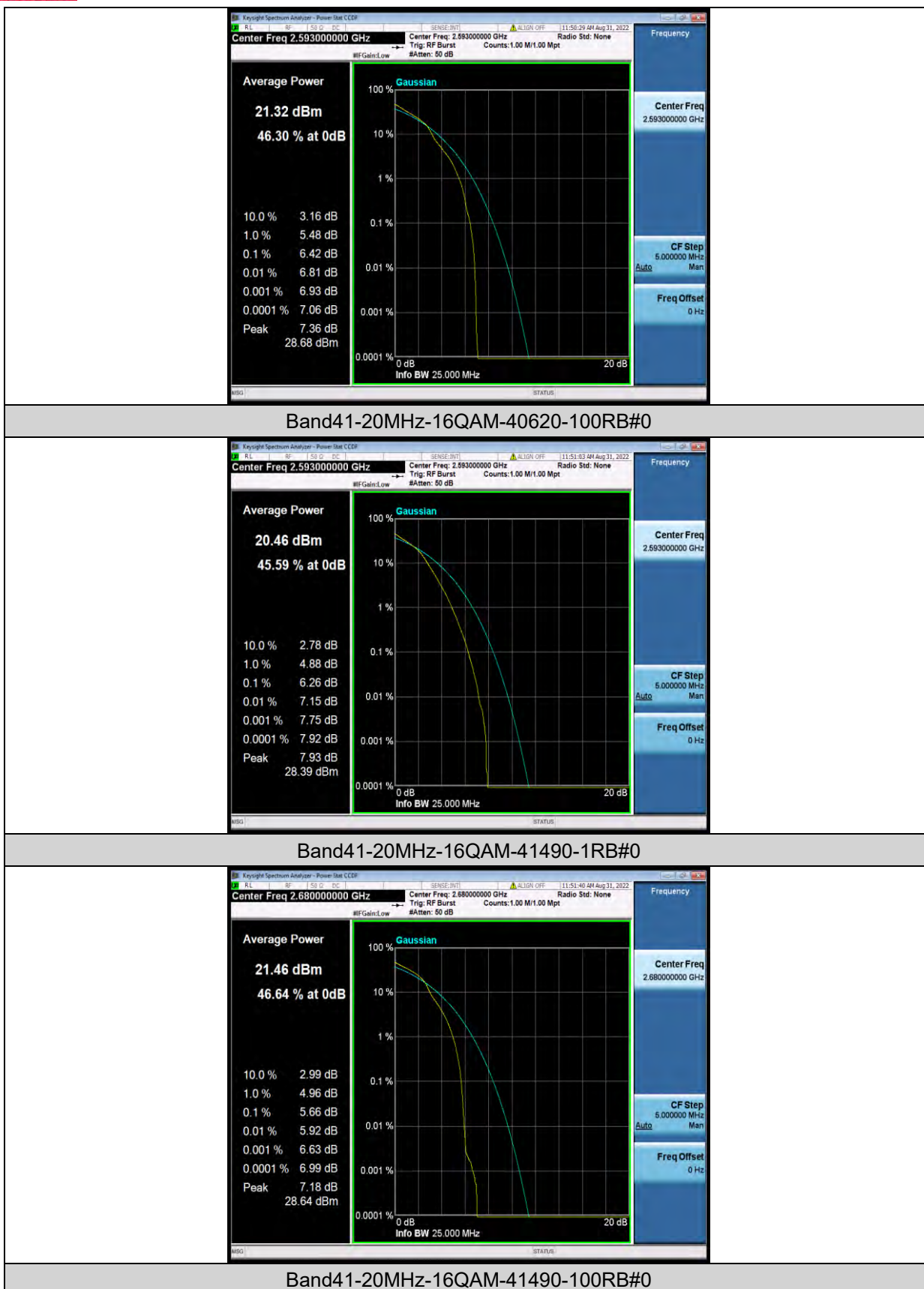
Band41-20MHz-16QAM-39750-1RB#0

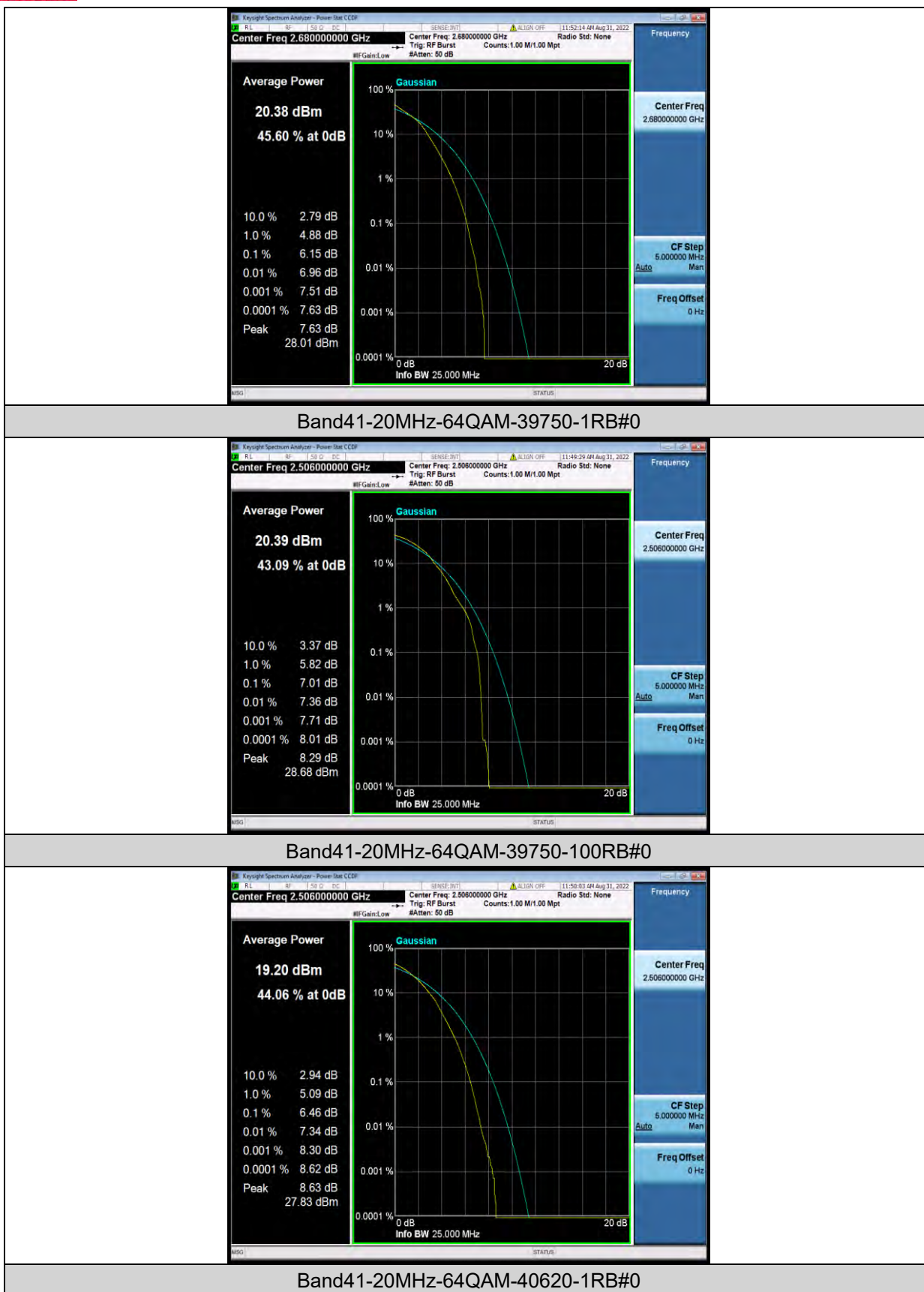


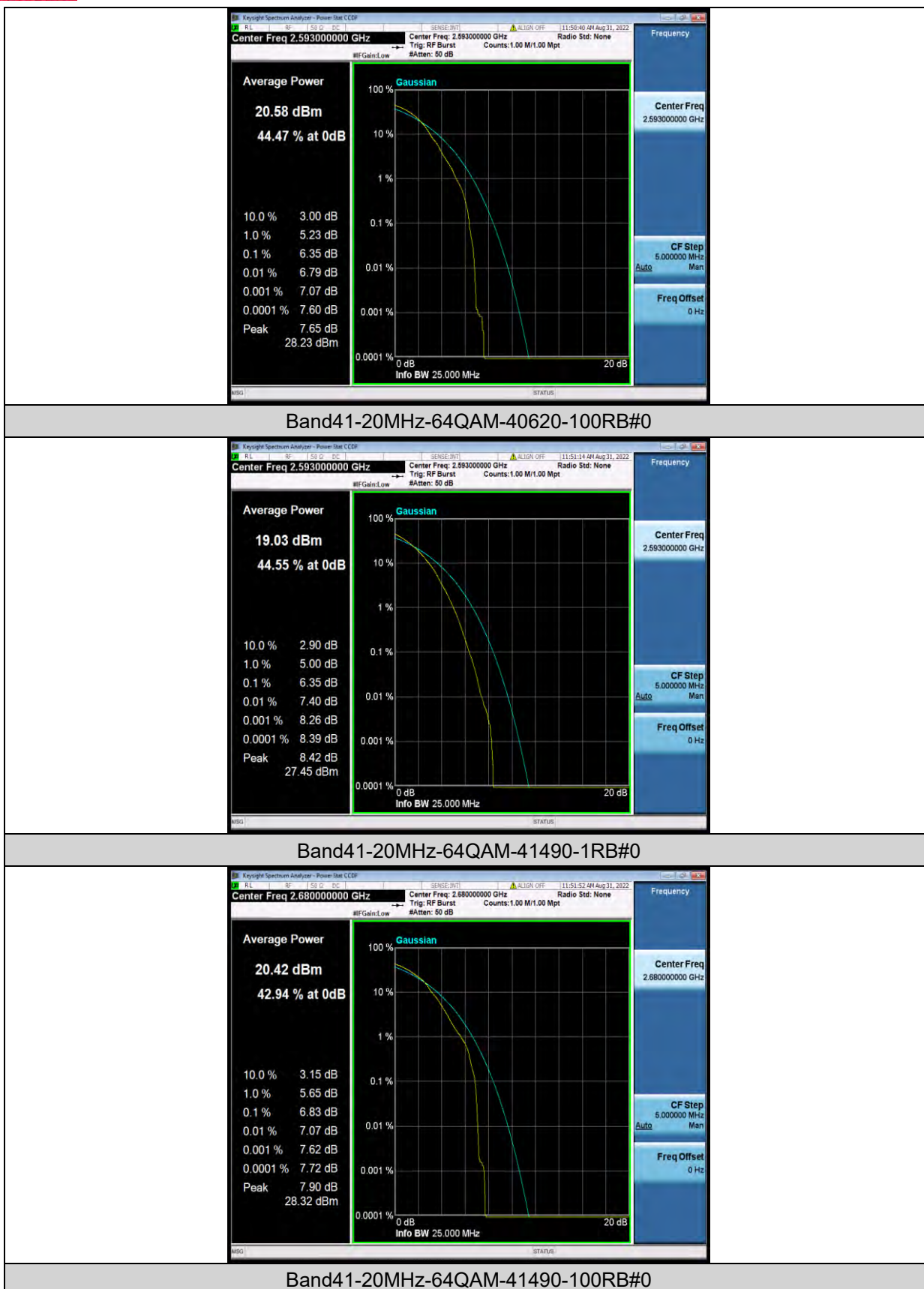
Band41-20MHz-16QAM-39750-100RB#0

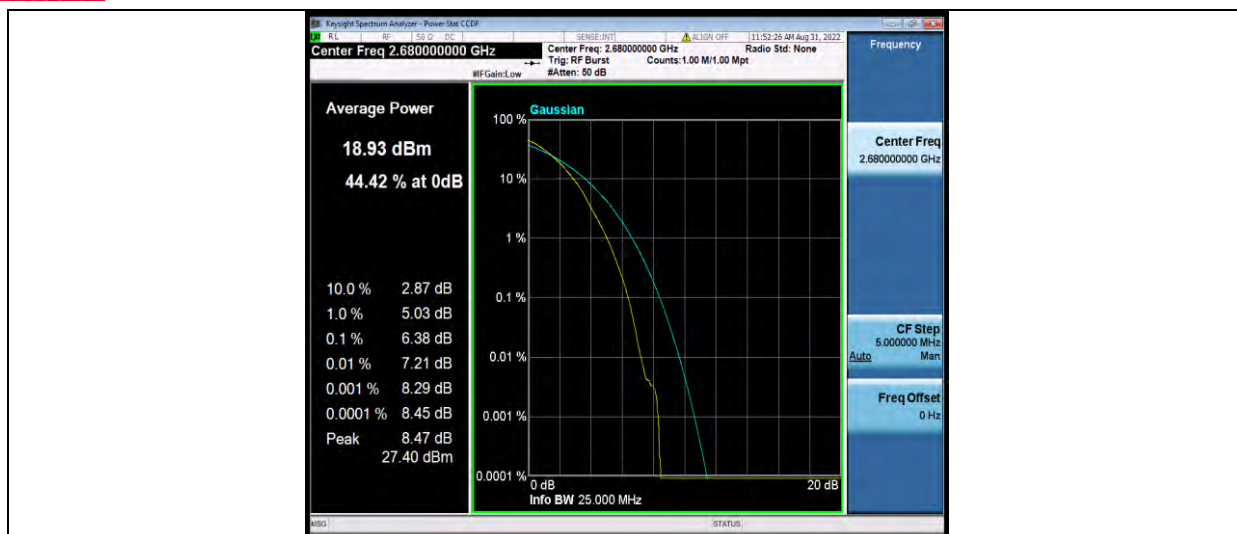


Band41-20MHz-16QAM-40620-1RB#0







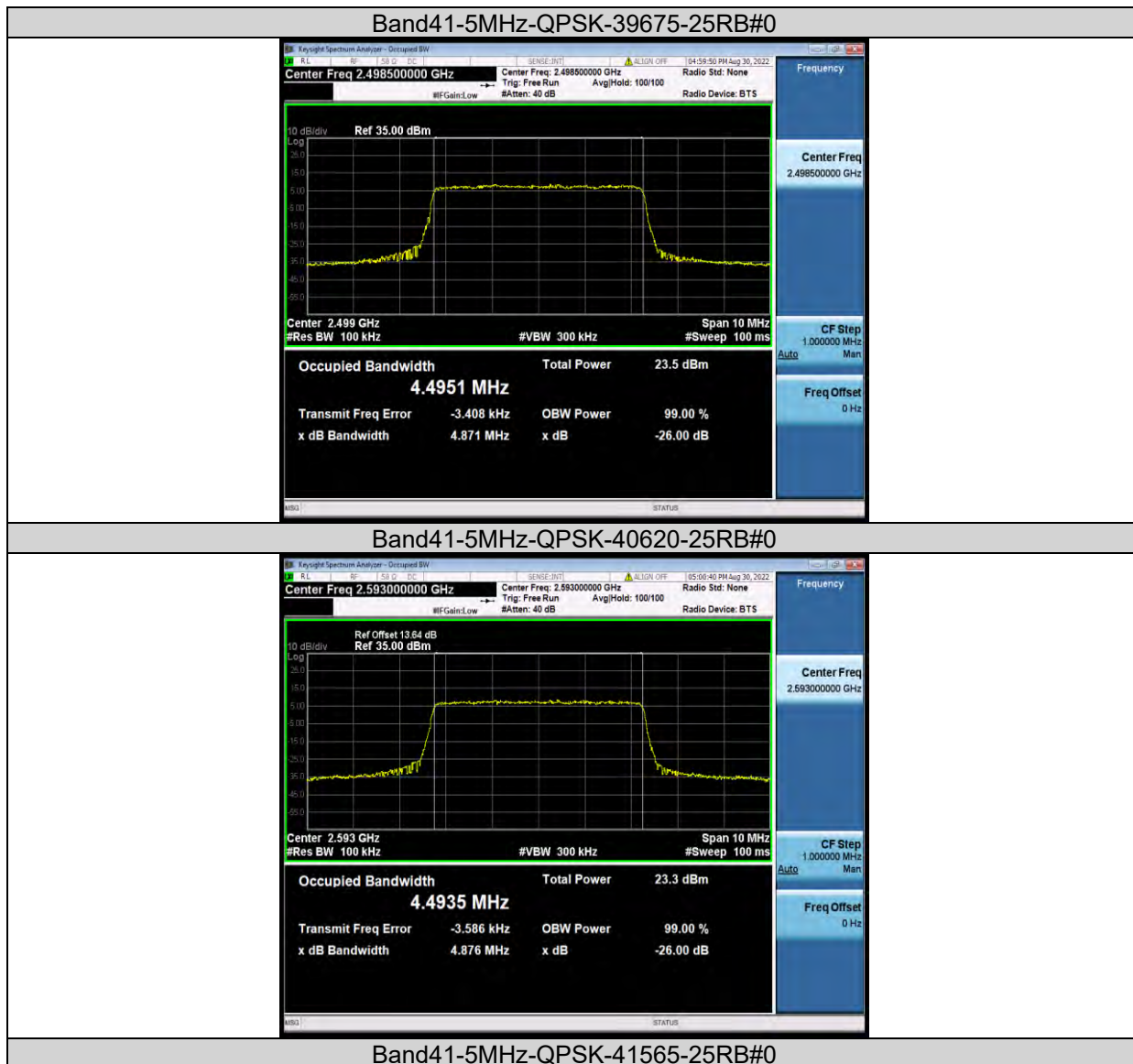


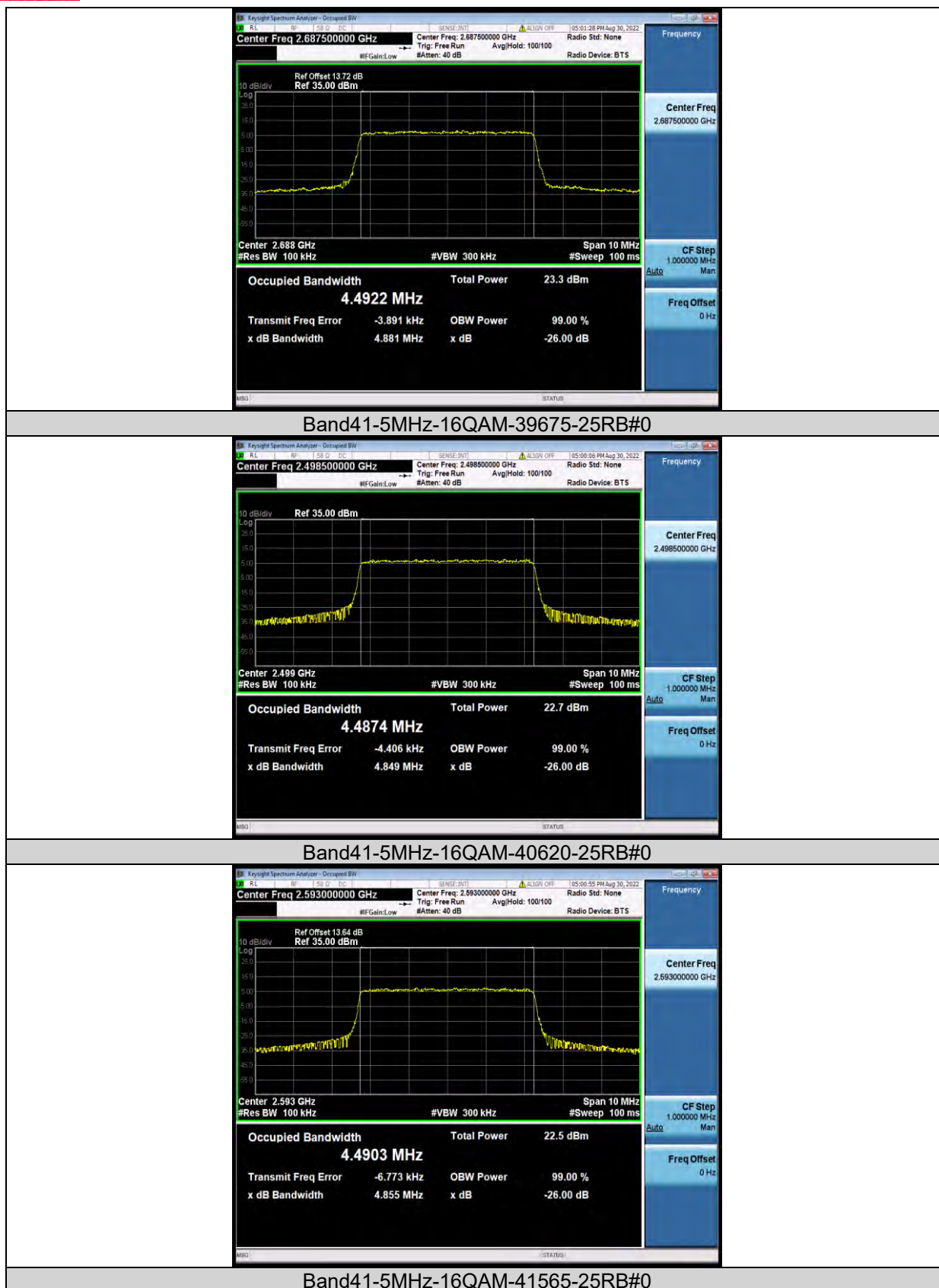
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

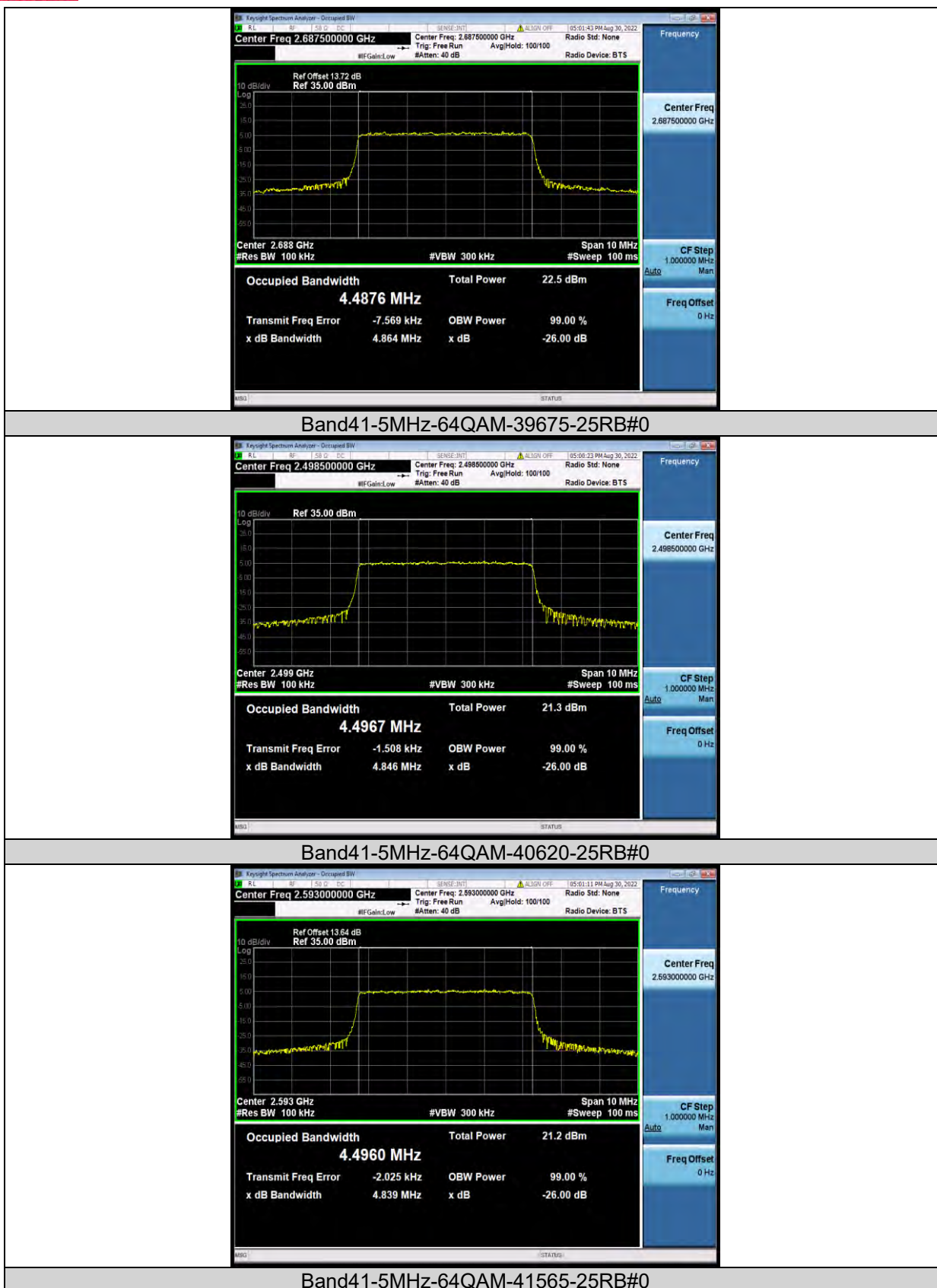
Test Result

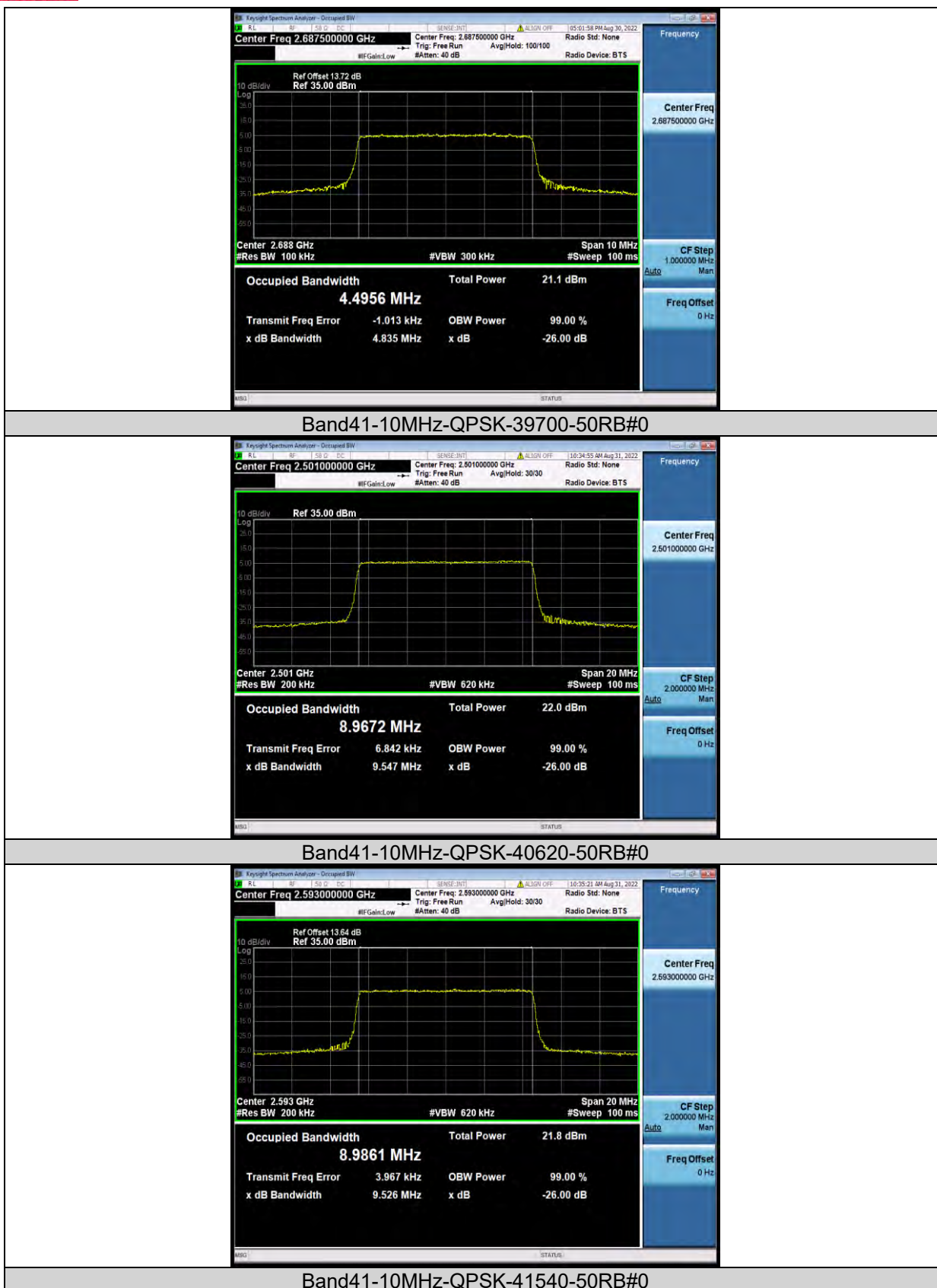
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4951	4.871	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4935	4.876	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4922	4.881	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4874	4.849	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4903	4.855	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4876	4.864	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.4967	4.846	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.4960	4.839	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.4956	4.835	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9672	9.547	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9861	9.526	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9797	9.525	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9743	9.540	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9687	9.576	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9832	9.560	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.9603	9.554	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.9713	9.613	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.9622	9.574	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.462	14.29	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.450	14.32	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.467	14.31	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.455	14.30	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.437	14.30	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.458	14.31	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.436	14.26	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.435	14.29	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.456	14.29	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.927	19.01	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.935	19.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.933	19.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.927	18.96	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.948	18.99	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.935	19.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.934	19.01	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.929	18.96	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.955	19.03	PASS

Test Graphs

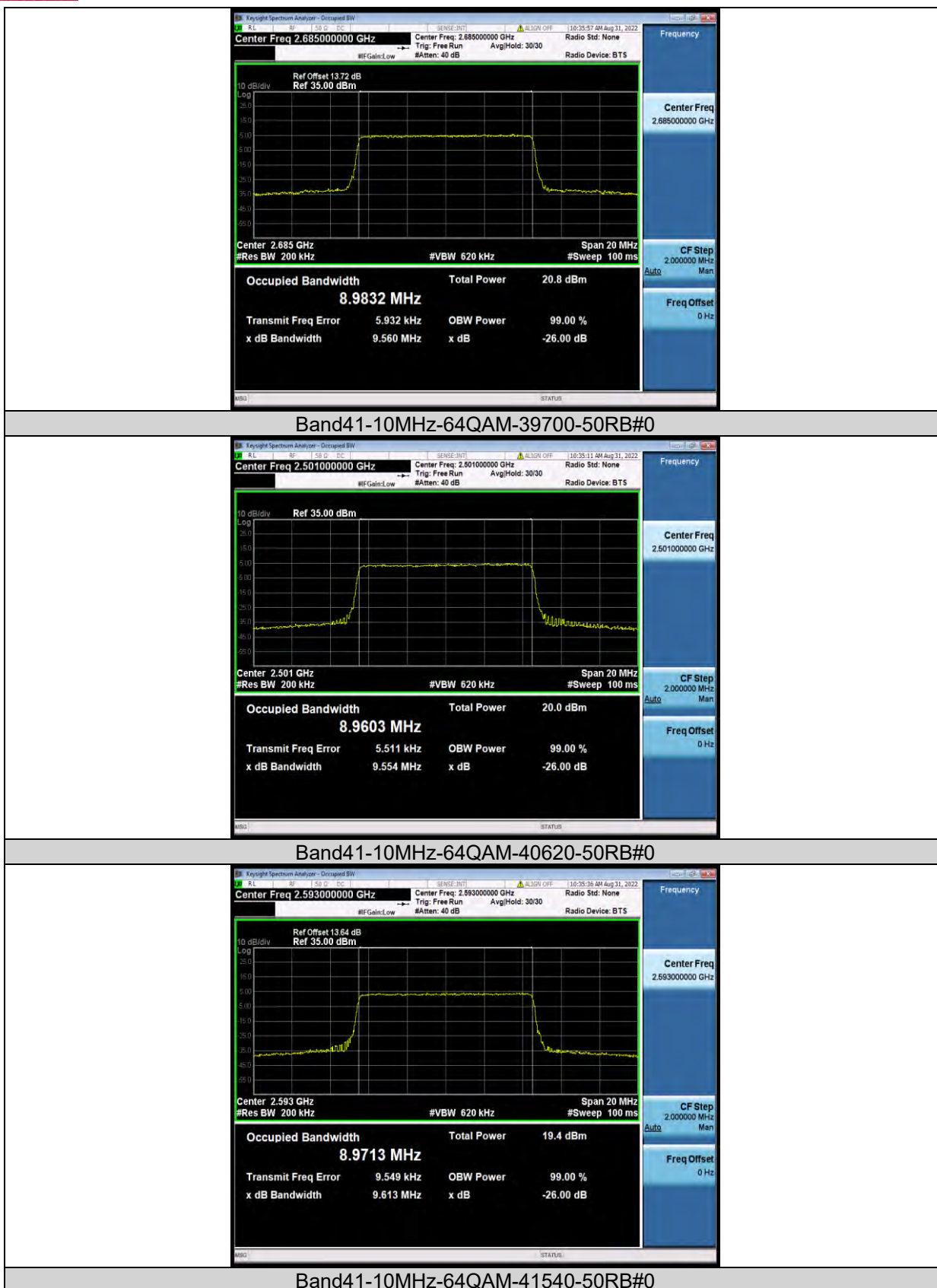


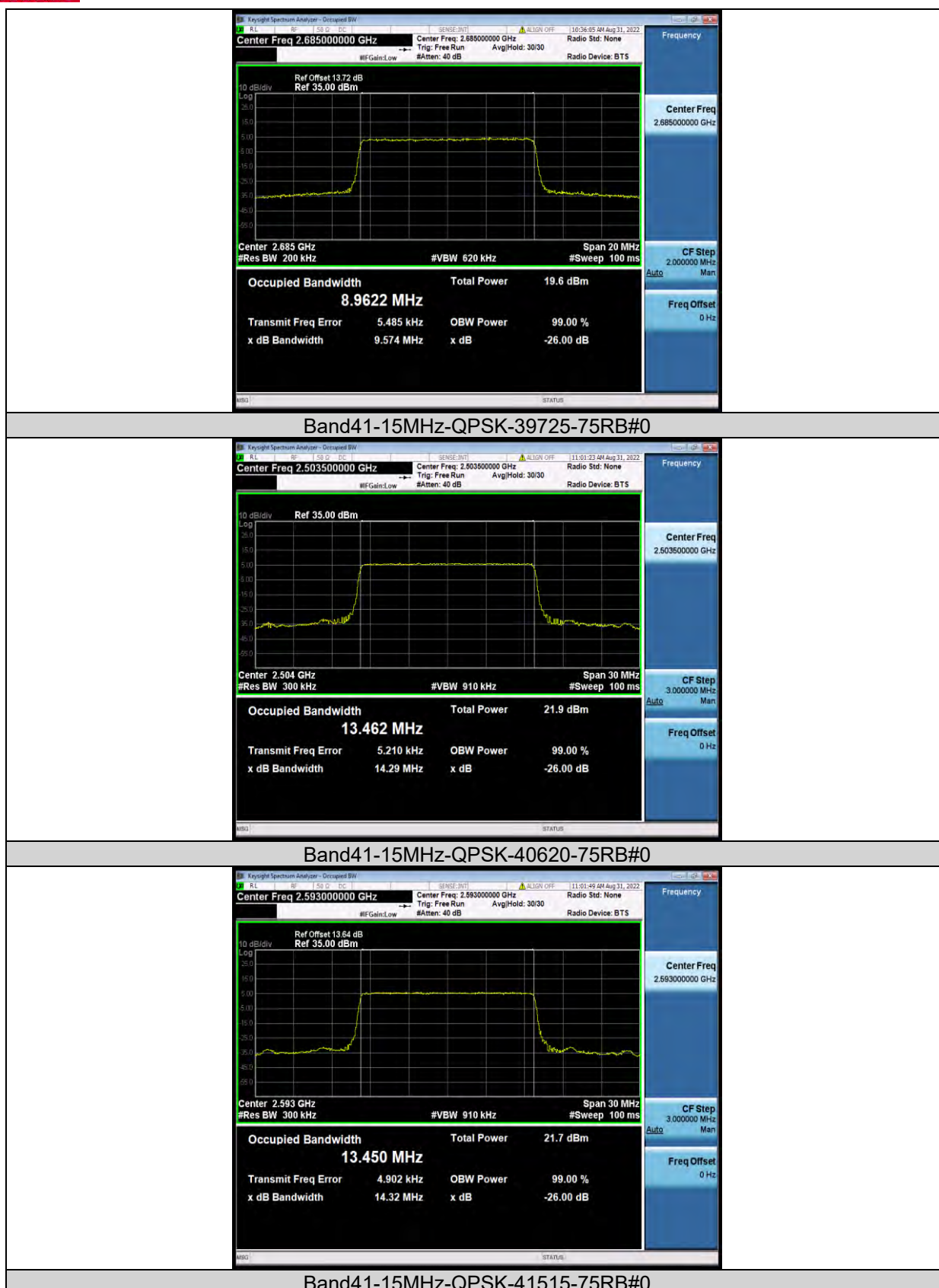


















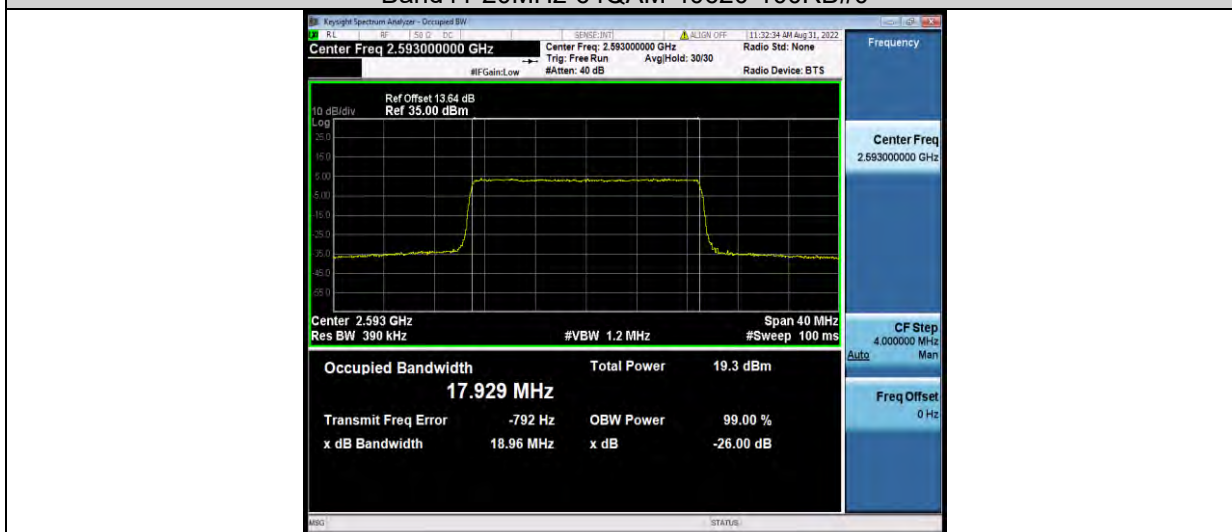




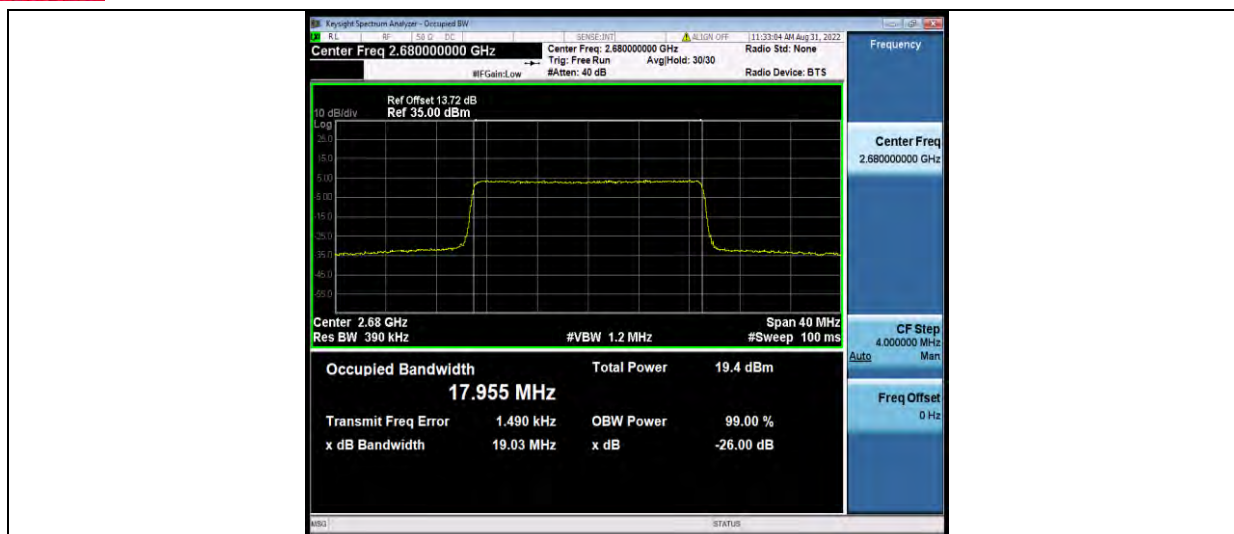
Band41-20MHz-64QAM-39750-100RB#0



Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-64QAM-41490-100RB#0



BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-46.43,-41.44,-20.96	PASS
Band41	5MHz	QPSK	39675	1RB#24	-43.41,-39.28,-31.51	PASS
Band41	5MHz	QPSK	39675	25RB#0	-43.22,-34.87,-22.98	PASS
Band41	5MHz	QPSK	41565	1RB#0	-38.41,-40.04,-46.26,-46.28	PASS
Band41	5MHz	QPSK	41565	1RB#24	-13.42,-29.84,-39.85,-39.11	PASS
Band41	5MHz	QPSK	41565	25RB#0	-24.50,-31.61,-39.90,-40.10	PASS
Band41	5MHz	16QAM	39675	1RB#0	-46.26,-39.92,-22.47	PASS
Band41	5MHz	16QAM	39675	1RB#24	-44.15,-37.68,-33.67	PASS
Band41	5MHz	16QAM	39675	25RB#0	-42.25,-33.55,-23.30	PASS
Band41	5MHz	16QAM	41565	1RB#0	-39.53,-42.99,-46.48,-46.34	PASS
Band41	5MHz	16QAM	41565	1RB#24	-15.26,-29.27,-39.62,-40.16	PASS
Band41	5MHz	16QAM	41565	25RB#0	-24.43,-31.18,-37.84,-39.49	PASS
Band41	5MHz	64QAM	39675	1RB#0	-46.69,-45.54,-21.78	PASS
Band41	5MHz	64QAM	39675	1RB#24	-44.21,-38.71,-31.58	PASS
Band41	5MHz	64QAM	39675	25RB#0	-42.24,-33.72,-25.04	PASS
Band41	5MHz	64QAM	41565	1RB#0	-39.52,-44.29,-46.52,-46.52	PASS
Band41	5MHz	64QAM	41565	1RB#24	-15.40,-37.21,-43.86,-43.89	PASS
Band41	5MHz	64QAM	41565	25RB#0	-24.55,-32.14,-39.01,-40.47	PASS
Band41	10MHz	QPSK	39700	1RB#0	-43.92,-37.46,-22.27	PASS
Band41	10MHz	QPSK	39700	1RB#49	-43.91,-39.11,-40.10	PASS
Band41	10MHz	QPSK	39700	50RB#0	-43.51,-38.38,-33.58	PASS
Band41	10MHz	QPSK	41540	1RB#0	-40.18,-42.12,-36.55,-43.61	PASS
Band41	10MHz	QPSK	41540	1RB#49	-22.26,-36.35,-42.72,-43.33	PASS
Band41	10MHz	QPSK	41540	50RB#0	-33.86,-35.48,-37.06,-42.04	PASS
Band41	10MHz	16QAM	39700	1RB#0	-43.90,-39.76,-24.92	PASS
Band41	10MHz	16QAM	39700	1RB#49	-43.96,-39.73,-40.81	PASS
Band41	10MHz	16QAM	39700	50RB#0	-43.68,-38.90,-34.36	PASS
Band41	10MHz	16QAM	41540	1RB#0	-41.15,-42.03,-39.49,-43.64	PASS
Band41	10MHz	16QAM	41540	1RB#49	-22.48,-37.79,-42.43,-43.51	PASS
Band41	10MHz	16QAM	41540	50RB#0	-32.74,-36.00,-38.40,-41.90	PASS
Band41	10MHz	64QAM	39700	1RB#0	-43.92,-41.30,-25.41	PASS
Band41	10MHz	64QAM	39700	1RB#49	-43.97,-39.36,-41.64	PASS
Band41	10MHz	64QAM	39700	50RB#0	-43.78,-39.62,-36.03	PASS
Band41	10MHz	64QAM	41540	1RB#0	-41.06,-41.82,-43.51,-43.70	PASS
Band41	10MHz	64QAM	41540	1RB#49	-25.29,-41.15,-43.41,-43.66	PASS
Band41	10MHz	64QAM	41540	50RB#0	-34.13,-36.54,-38.97,-42.53	PASS
Band41	15MHz	QPSK	39725	1RB#0	-42.16,-34.71,-22.46	PASS
Band41	15MHz	QPSK	39725	1RB#74	-42.12,-38.21,-40.36	PASS
Band41	15MHz	QPSK	39725	75RB#0	-41.98,-36.35,-34.06	PASS
Band41	15MHz	QPSK	41515	1RB#0	-40.21,-41.70,-35.18,-41.91	PASS
Band41	15MHz	QPSK	41515	1RB#74	-23.20,-35.49,-40.26,-41.79	PASS
Band41	15MHz	QPSK	41515	75RB#0	-32.46,-33.91,-35.29,-40.14	PASS
Band41	15MHz	16QAM	39725	1RB#0	-42.14,-36.34,-23.83	PASS
Band41	15MHz	16QAM	39725	1RB#74	-42.16,-38.00,-40.36	PASS

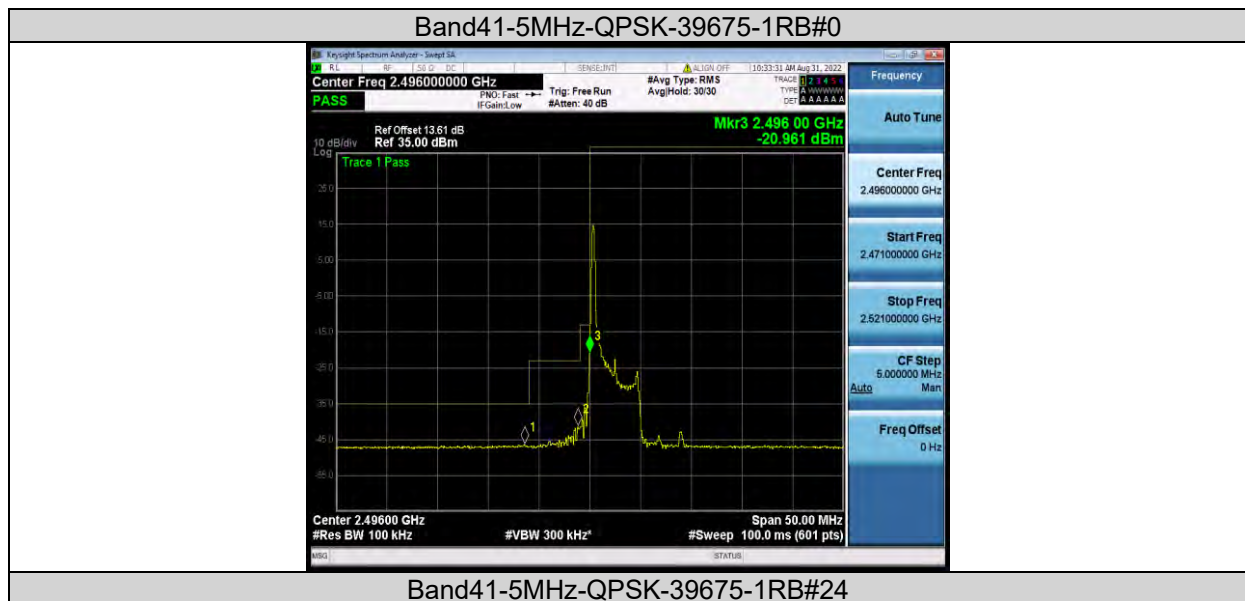


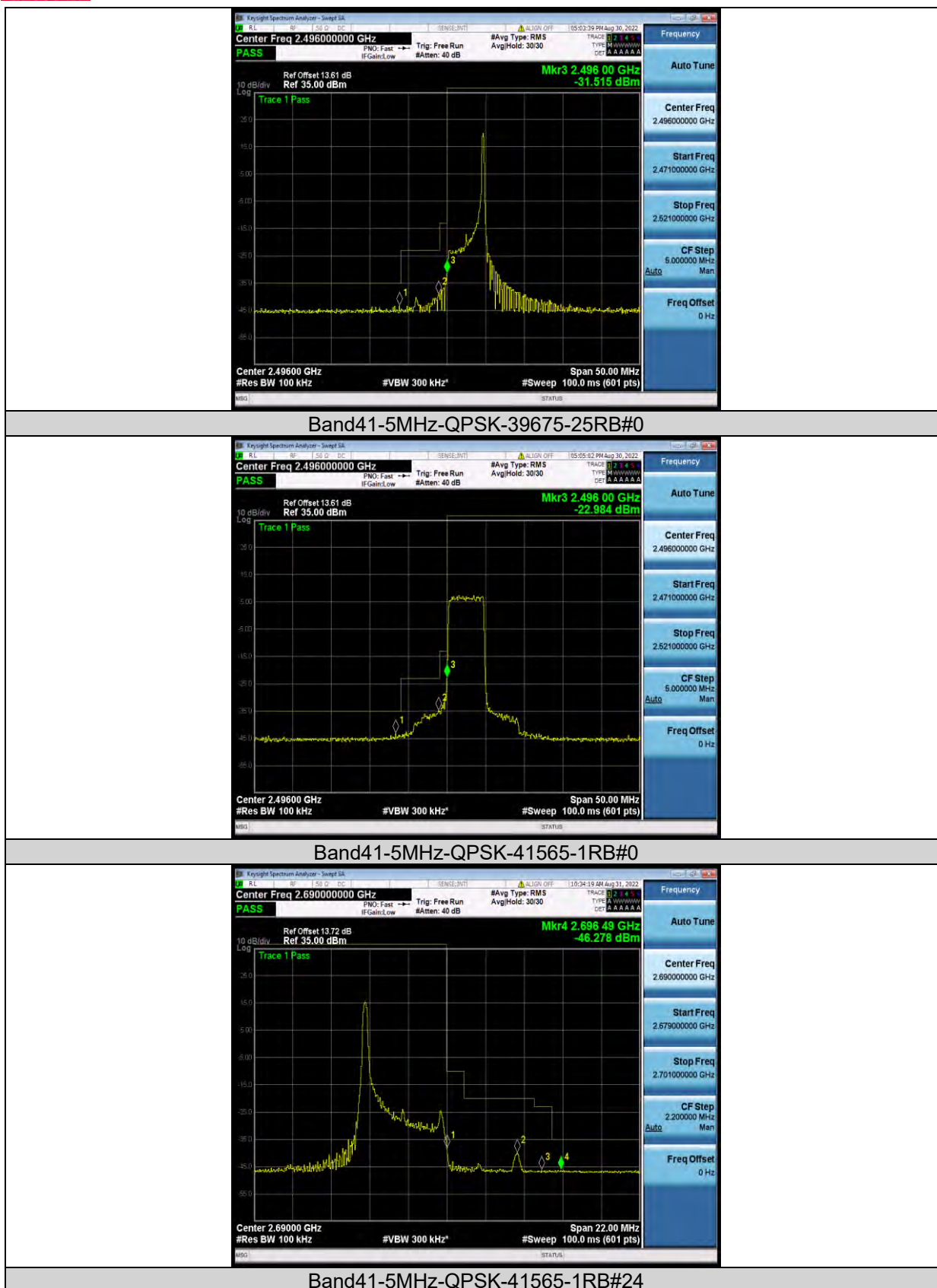
BUREAU
VERITAS

Test Report No.: W7L-P22070038RF06

Band41	15MHz	16QAM	39725	75RB#0	-41.97,-37.45,-34.87	PASS
Band41	15MHz	16QAM	41515	1RB#0	-40.34,-41.70,-37.31,-42.02	PASS
Band41	15MHz	16QAM	41515	1RB#74	-24.03,-37.62,-40.78,-41.87	PASS
Band41	15MHz	16QAM	41515	75RB#0	-32.94,-34.11,-36.23,-40.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	-42.16,-40.58,-24.92	PASS
Band41	15MHz	64QAM	39725	1RB#74	-42.19,-38.50,-41.08	PASS
Band41	15MHz	64QAM	39725	75RB#0	-42.20,-38.36,-35.70	PASS
Band41	15MHz	64QAM	41515	1RB#0	-41.23,-41.71,-40.36,-41.91	PASS
Band41	15MHz	64QAM	41515	1RB#74	-25.48,-39.76,-41.03,-41.97	PASS
Band41	15MHz	64QAM	41515	75RB#0	-34.32,-35.11,-36.55,-40.96	PASS
Band41	20MHz	QPSK	39750	1RB#0	-41.05,-35.65,-24.39	PASS
Band41	20MHz	QPSK	39750	1RB#99	-41.04,-37.34,-39.95	PASS
Band41	20MHz	QPSK	39750	100RB#0	-40.98,-37.01,-35.63	PASS
Band41	20MHz	QPSK	41490	1RB#0	-39.21,-40.50,-34.91,-40.76	PASS
Band41	20MHz	QPSK	41490	1RB#99	-23.97,-35.76,-38.96,-40.72	PASS
Band41	20MHz	QPSK	41490	100RB#0	-33.34,-34.81,-35.67,-39.99	PASS
Band41	20MHz	16QAM	39750	1RB#0	-41.00,-35.37,-23.39	PASS
Band41	20MHz	16QAM	39750	1RB#99	-40.98,-37.79,-39.74	PASS
Band41	20MHz	16QAM	39750	100RB#0	-40.91,-37.01,-35.24	PASS
Band41	20MHz	16QAM	41490	1RB#0	-40.00,-40.44,-35.83,-40.78	PASS
Band41	20MHz	16QAM	41490	1RB#99	-25.79,-33.62,-38.81,-40.61	PASS
Band41	20MHz	16QAM	41490	100RB#0	-33.59,-34.66,-35.61,-39.61	PASS
Band41	20MHz	64QAM	39750	1RB#0	-41.07,-36.99,-24.89	PASS
Band41	20MHz	64QAM	39750	1RB#99	-41.00,-37.79,-39.66	PASS
Band41	20MHz	64QAM	39750	100RB#0	-41.03,-37.80,-36.34	PASS
Band41	20MHz	64QAM	41490	1RB#0	-40.00,-40.59,-38.90,-40.86	PASS
Band41	20MHz	64QAM	41490	1RB#99	-26.86,-36.72,-39.39,-40.75	PASS
Band41	20MHz	64QAM	41490	100RB#0	-34.52,-35.41,-36.33,-40.17	PASS

Test Graphs







Band41-5MHz-QPSK-41565-25RB#0



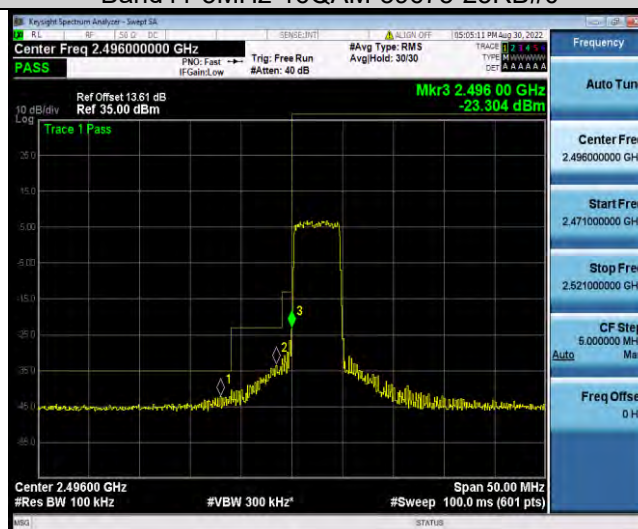
Band41-5MHz-16QAM-39675-1RB#0



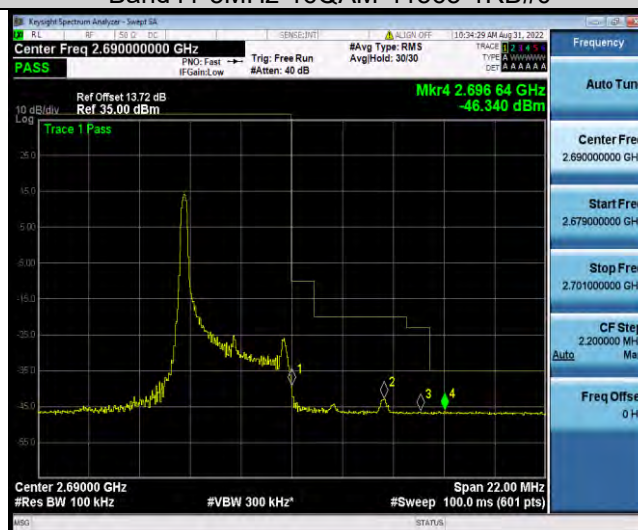
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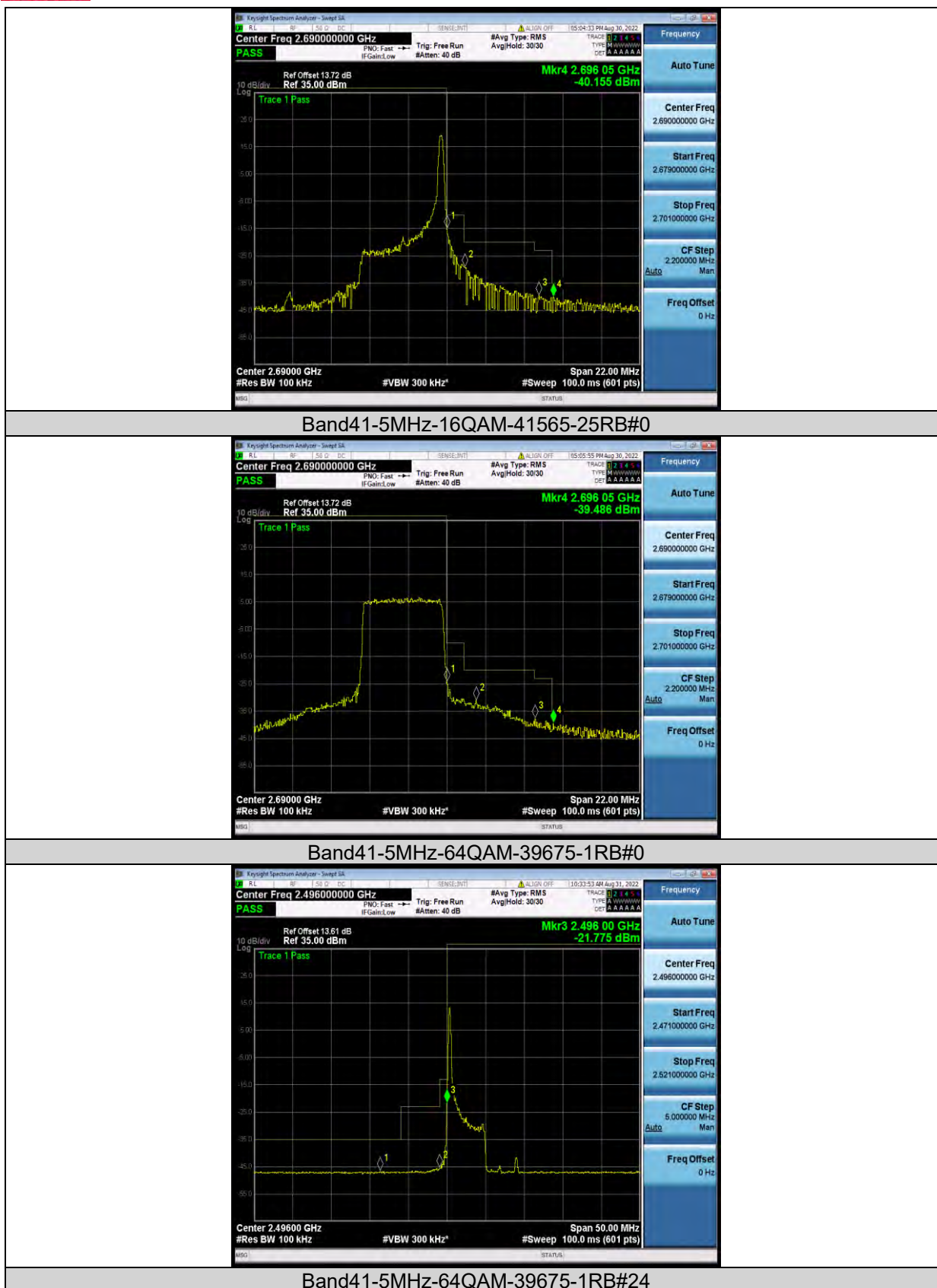
Band41-5MHz-16QAM-39675-25RB#0



Band41-5MHz-16QAM-41565-1RB#0

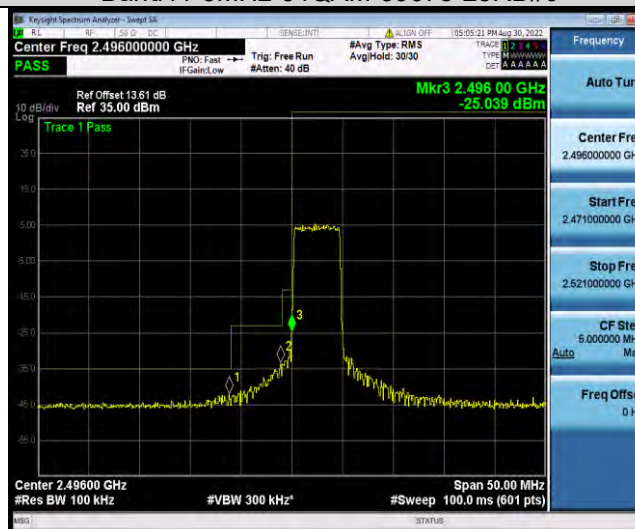


Band41-5MHz-16QAM-41565-1RB#24

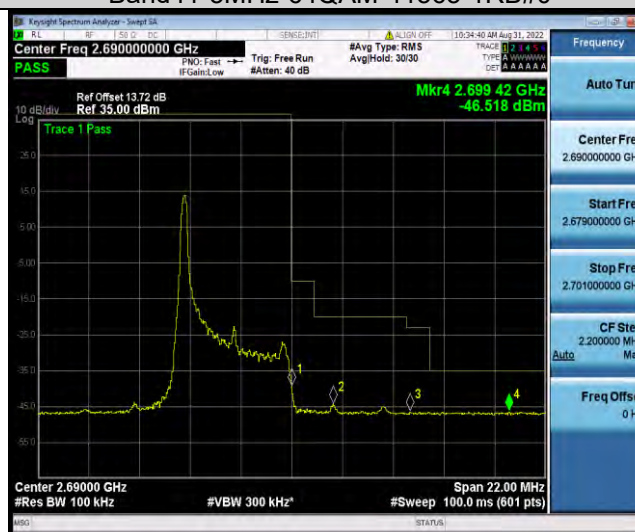




Band41-5MHz-64QAM-39675-25RB#0



Band41-5MHz-64QAM-41565-1RB#0



Band41-5MHz-64QAM-41565-1RB#24



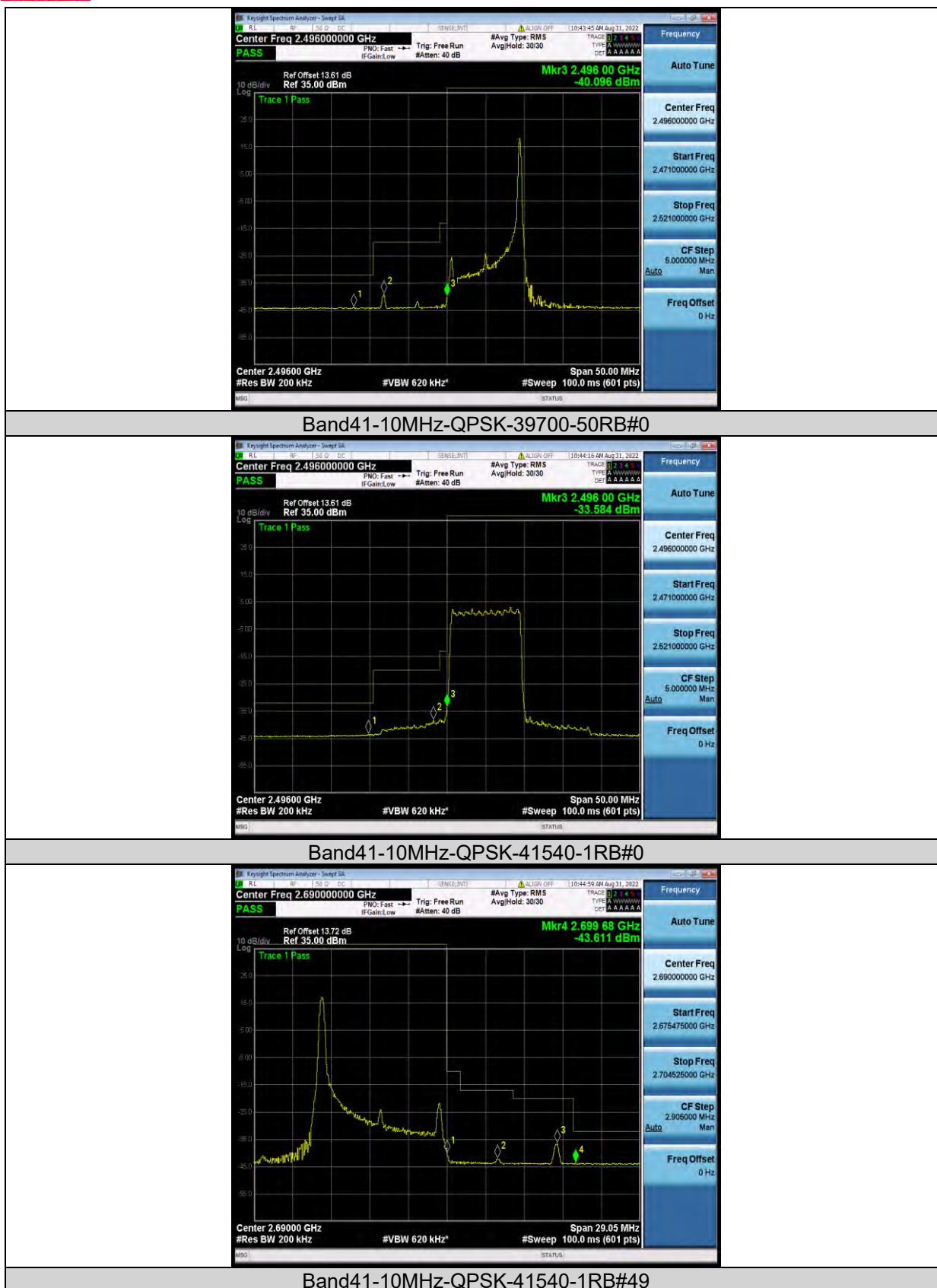
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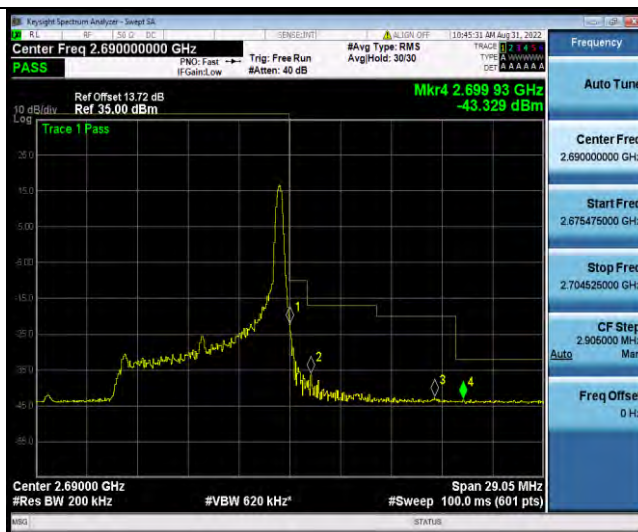


Band41-10MHz-QPSK-39700-1RB#0



Band41-10MHz-QPSK-39700-1RB#49





Band41-10MHz-QPSK-41540-50RB#0



Band41-10MHz-16QAM-39700-1RB#0



Band41-10MHz-16QAM-39700-1RB#49