



**BUREAU
VERITAS**

Test Report No.: W7L-P22030026-5RF05

Band7	10MHz	64QAM	21400	50RB#0	NV	30	-9.96	-0.003930	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	40	-8.73	-0.003442	±2.5	PASS
Band7	10MHz	64QAM	21400	50RB#0	NV	50	-7.77	-0.003063	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	-30	41.86	0.016694	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	-20	39.98	0.015944	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	0	-28.57	-0.011394	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	10	-6.15	-0.002453	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	20	11.19	0.004463	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	30	-6.73	-0.002655	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	40	-5.61	-0.002213	±2.5	PASS
Band7	15MHz	64QAM	20825	75RB#0	NV	50	-4.62	-0.001822	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-30	11.73	0.004627	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	-20	47.41	0.018702	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	0	7.37	0.002907	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	10	27.11	0.010694	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	20	-7.78	-0.003069	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	30	-3.48	-0.001372	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	40	-1.93	-0.000762	±2.5	PASS
Band7	15MHz	64QAM	21100	75RB#0	NV	50	-0.42	-0.000164	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	-30	-25.62	-0.009998	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	-20	-46.38	-0.018100	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	0	-46.06	-0.017975	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	10	-37.11	-0.014482	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	20	-13.35	-0.005210	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	30	-10.52	-0.004149	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	40	-9.33	-0.003682	±2.5	PASS
Band7	15MHz	64QAM	21375	75RB#0	NV	50	-7.18	-0.002832	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-30	-41.20	-0.016414	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	-20	-43.89	-0.017486	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	0	-26.26	-0.010462	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	10	-26.61	-0.010602	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	20	7.68	0.003060	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	30	-5.60	-0.002209	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	40	-4.70	-0.001856	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	NV	50	-3.94	-0.001553	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-30	34.60	0.013649	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	-20	40.78	0.016087	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	0	25.79	0.010174	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	10	24.78	0.009775	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	20	17.92	0.007069	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	30	-2.28	-0.000900	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	40	-1.86	-0.000732	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	NV	50	-0.90	-0.000353	±2.5	PASS



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Band7	20MHz	64QAM	21350	100RB#0	NV	-30	-28.05	-0.010957	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	-20	-49.51	-0.019340	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	0	-10.97	-0.004285	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	10	-15.58	-0.006086	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	20	-35.89	-0.014020	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	30	-10.97	-0.004326	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	40	-10.31	-0.004069	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	NV	50	-7.98	-0.003147	±2.5	PASS



Test Report No.: W7L-P22030026-5RF05

LTE BAND12

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	3.84	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.61	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.36	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.99	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.92	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.66	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	4.97	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.48	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.85	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.03	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.94	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.29	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.09	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.64	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.30	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.04	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.90	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.72	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	4.30	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.51	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.48	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.94	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.11	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.67	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	3.94	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.82	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.39	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.10	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.44	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.90	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	4.71	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.51	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.42	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.81	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.25	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.72	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.06	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.92	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	3.97	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.17	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.11	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.05	13	PASS



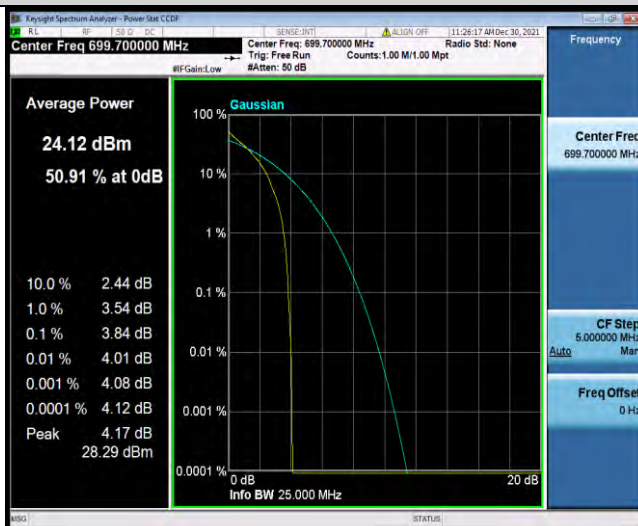
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Test Report No.: W7L-P22030026-5RF05

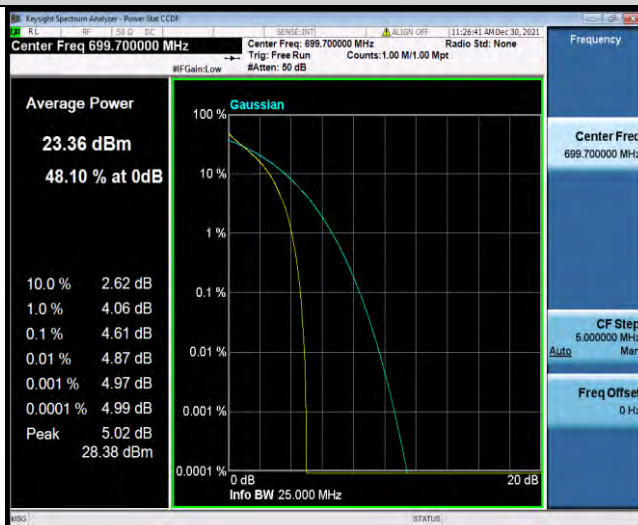
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Band12	10MHz	16QAM	23060	50RB#0	5.67	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	4.97	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.99	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.20	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.74	13	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	5.74	13	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	5.94	13	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	5.68	13	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	6.04	13	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	5.52	13	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	6.20	13	PASS
Band12	3MHz	64QAM	23025	1RB#0	5.40	13	PASS
Band12	3MHz	64QAM	23025	15RB#0	5.95	13	PASS
Band12	3MHz	64QAM	23095	1RB#0	5.73	13	PASS
Band12	3MHz	64QAM	23095	15RB#0	6.14	13	PASS
Band12	3MHz	64QAM	23165	1RB#0	5.65	13	PASS
Band12	3MHz	64QAM	23165	15RB#0	6.31	13	PASS
Band12	5MHz	64QAM	23035	1RB#0	5.34	13	PASS
Band12	5MHz	64QAM	23035	25RB#0	6.11	13	PASS
Band12	5MHz	64QAM	23095	1RB#0	5.84	13	PASS
Band12	5MHz	64QAM	23095	25RB#0	6.04	13	PASS
Band12	5MHz	64QAM	23155	1RB#0	5.51	13	PASS
Band12	5MHz	64QAM	23155	25RB#0	6.24	13	PASS
Band12	10MHz	64QAM	23060	1RB#0	5.08	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.28	13	PASS
Band12	10MHz	64QAM	23095	1RB#0	5.52	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.18	13	PASS
Band12	10MHz	64QAM	23130	1RB#0	5.43	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.36	13	PASS

Test Graphs

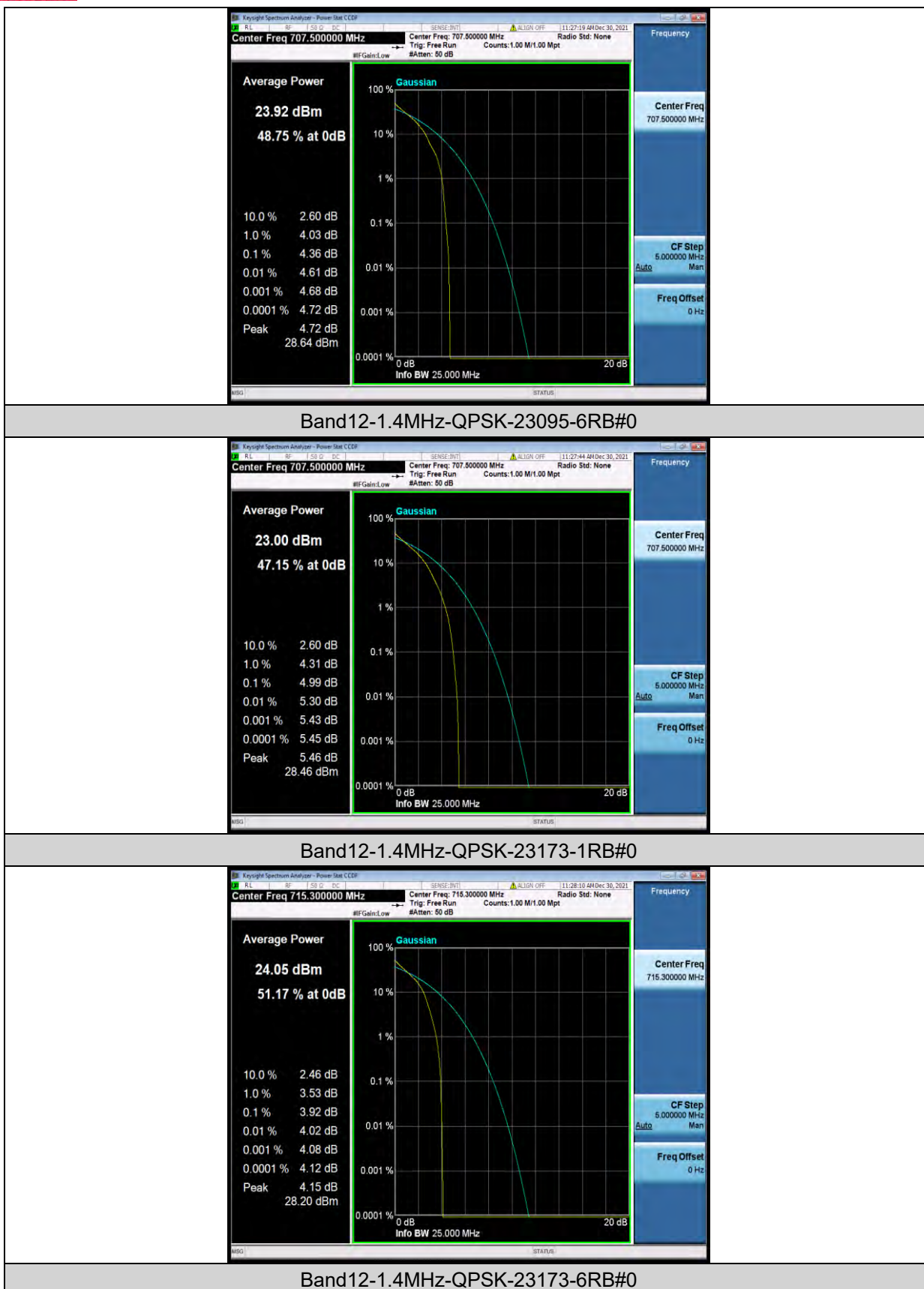
Band12-1.4MHz-QPSK-23017-1RB#0

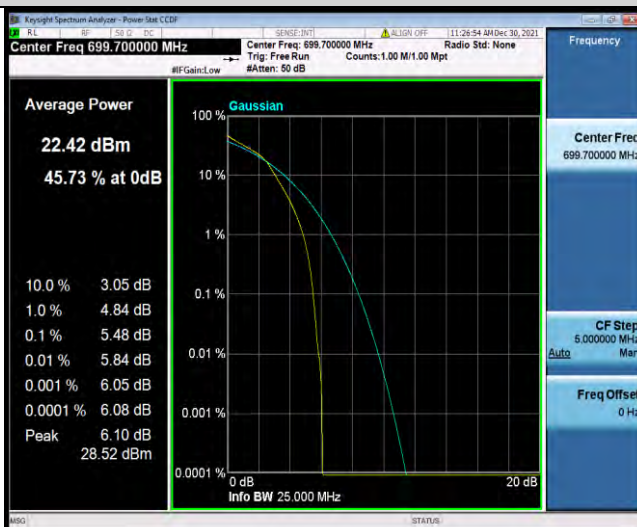
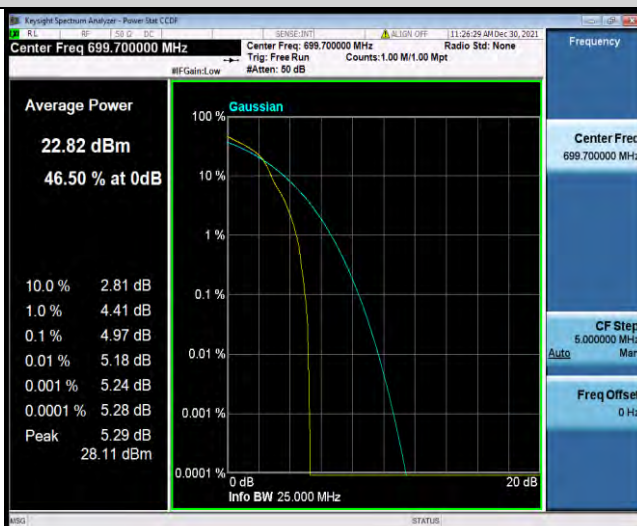


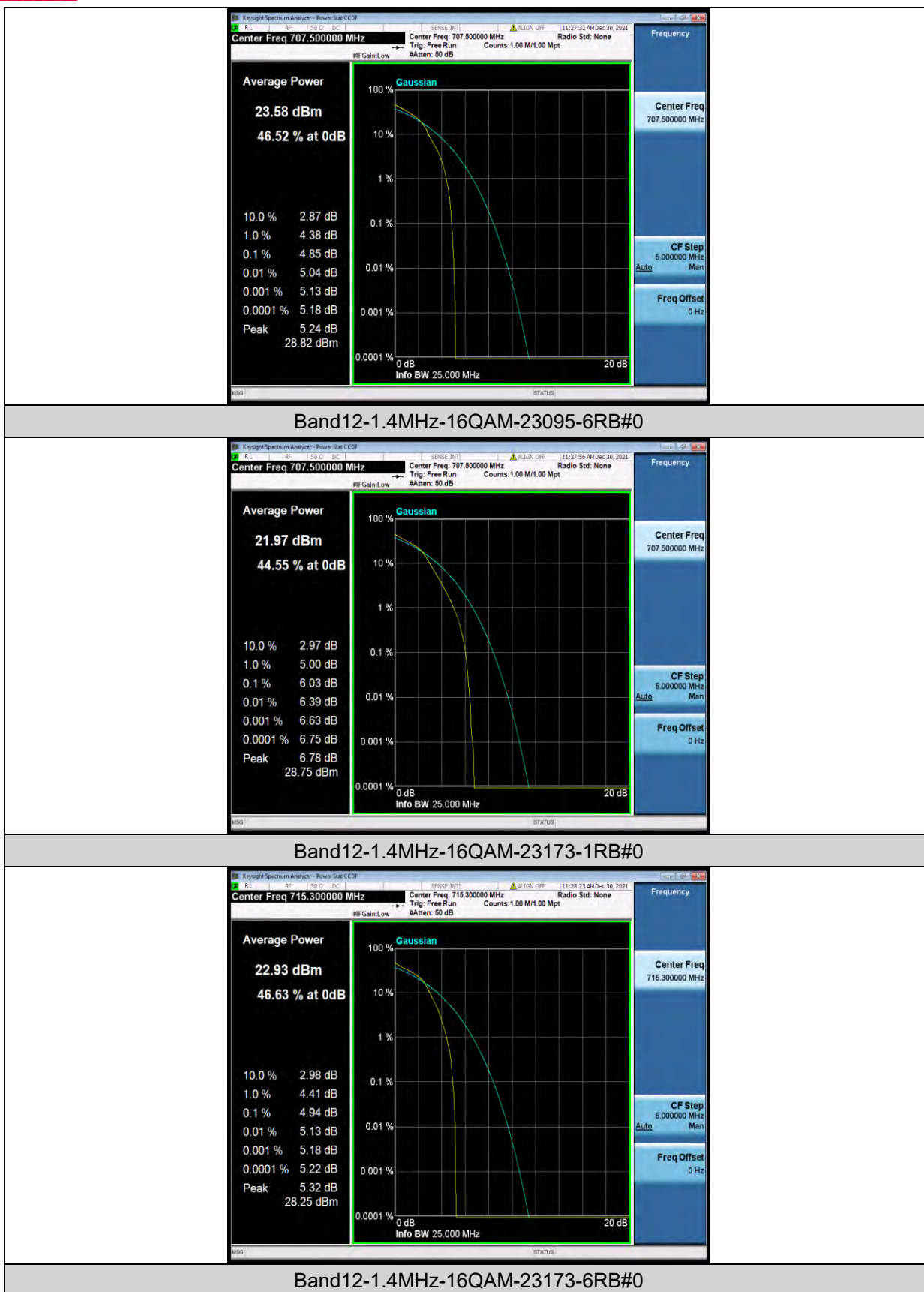
Band12-1.4MHz-QPSK-23017-6RB#0

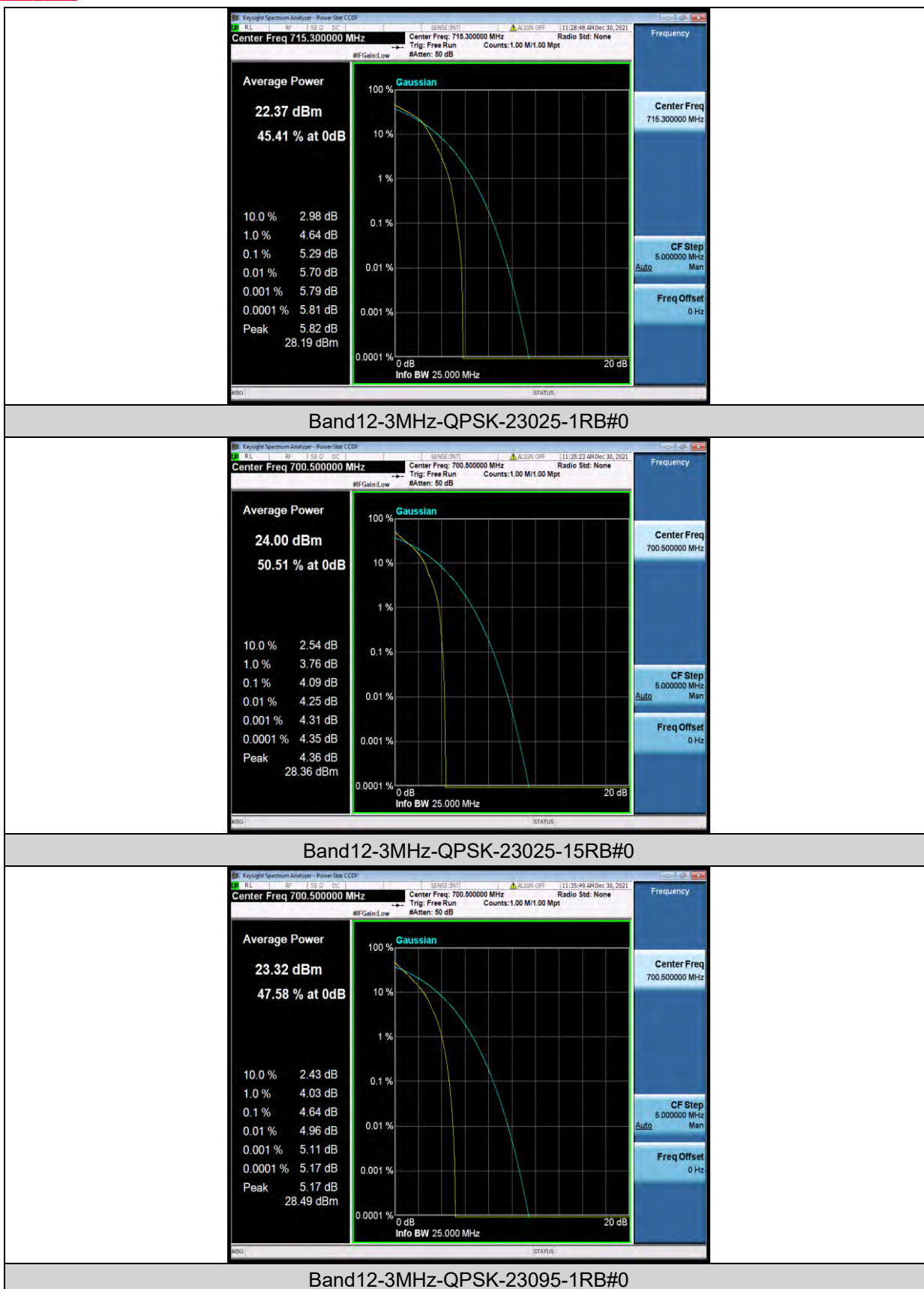


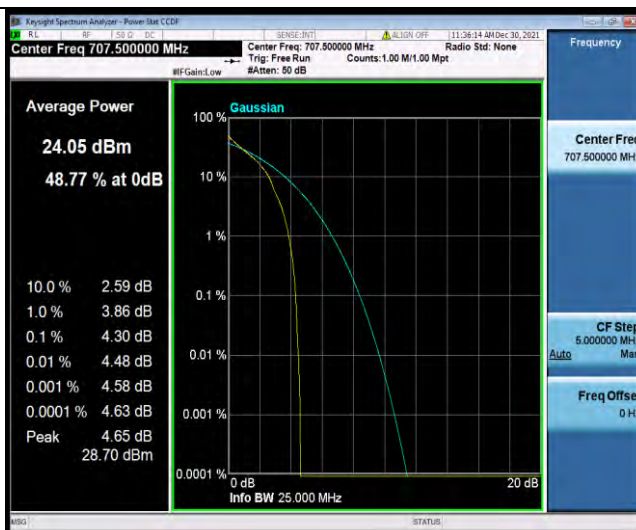
Band12-1.4MHz-QPSK-23095-1RB#0











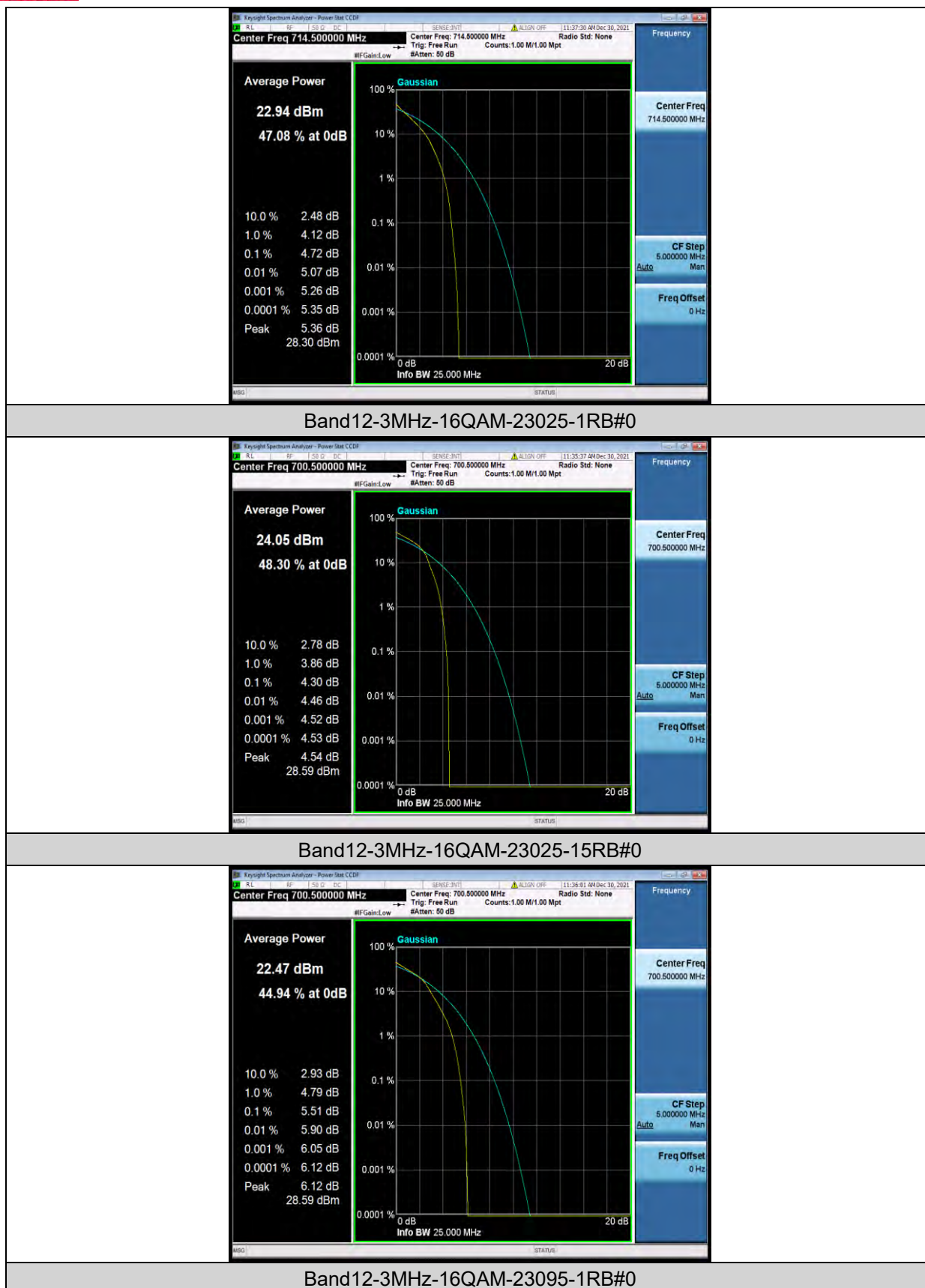
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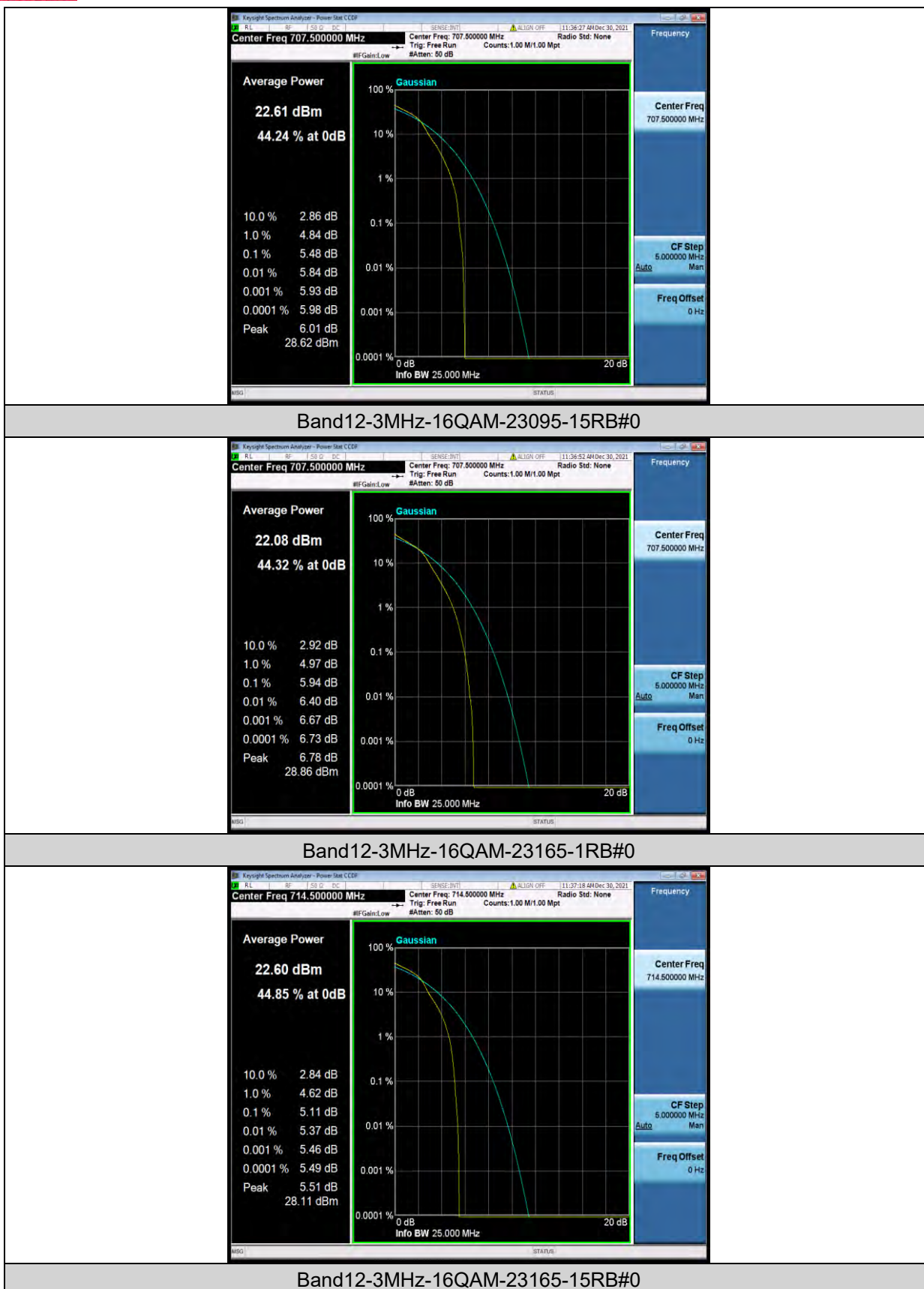


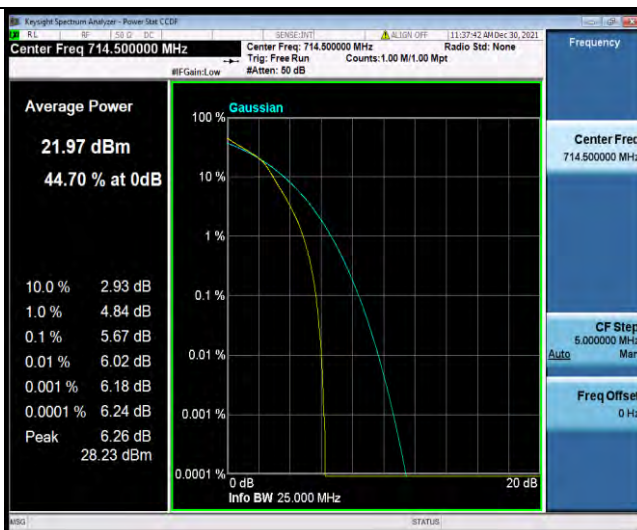
Band12-3MHz-QPSK-23165-1RB#0



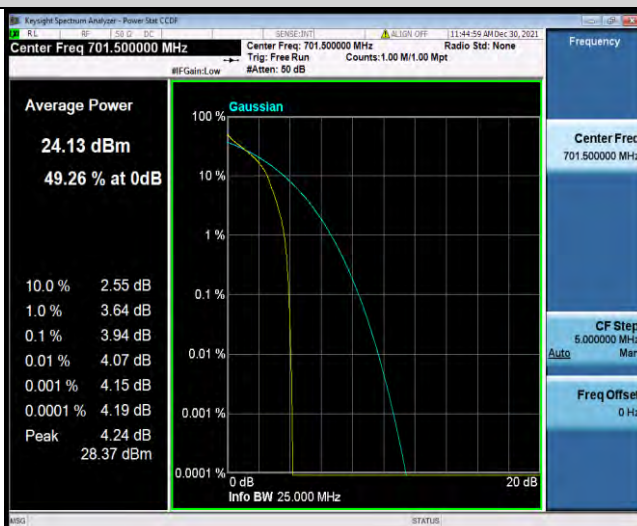
Band12-3MHz-QPSK-23165-15RB#0



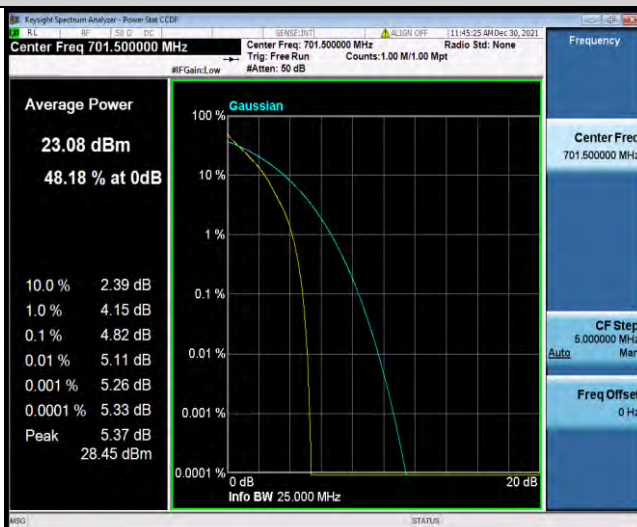




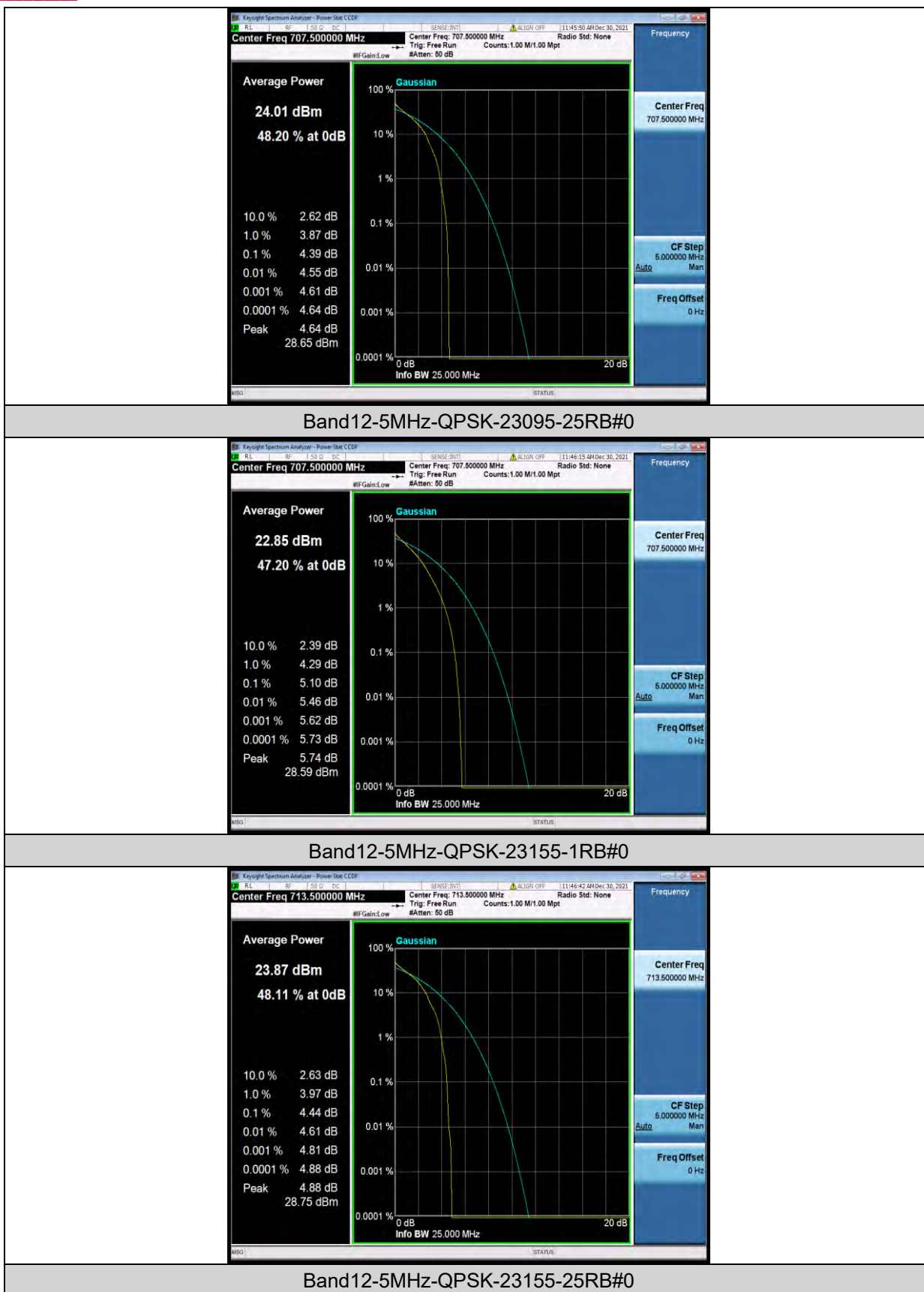
Band12-5MHz-QPSK-23035-1RB#0

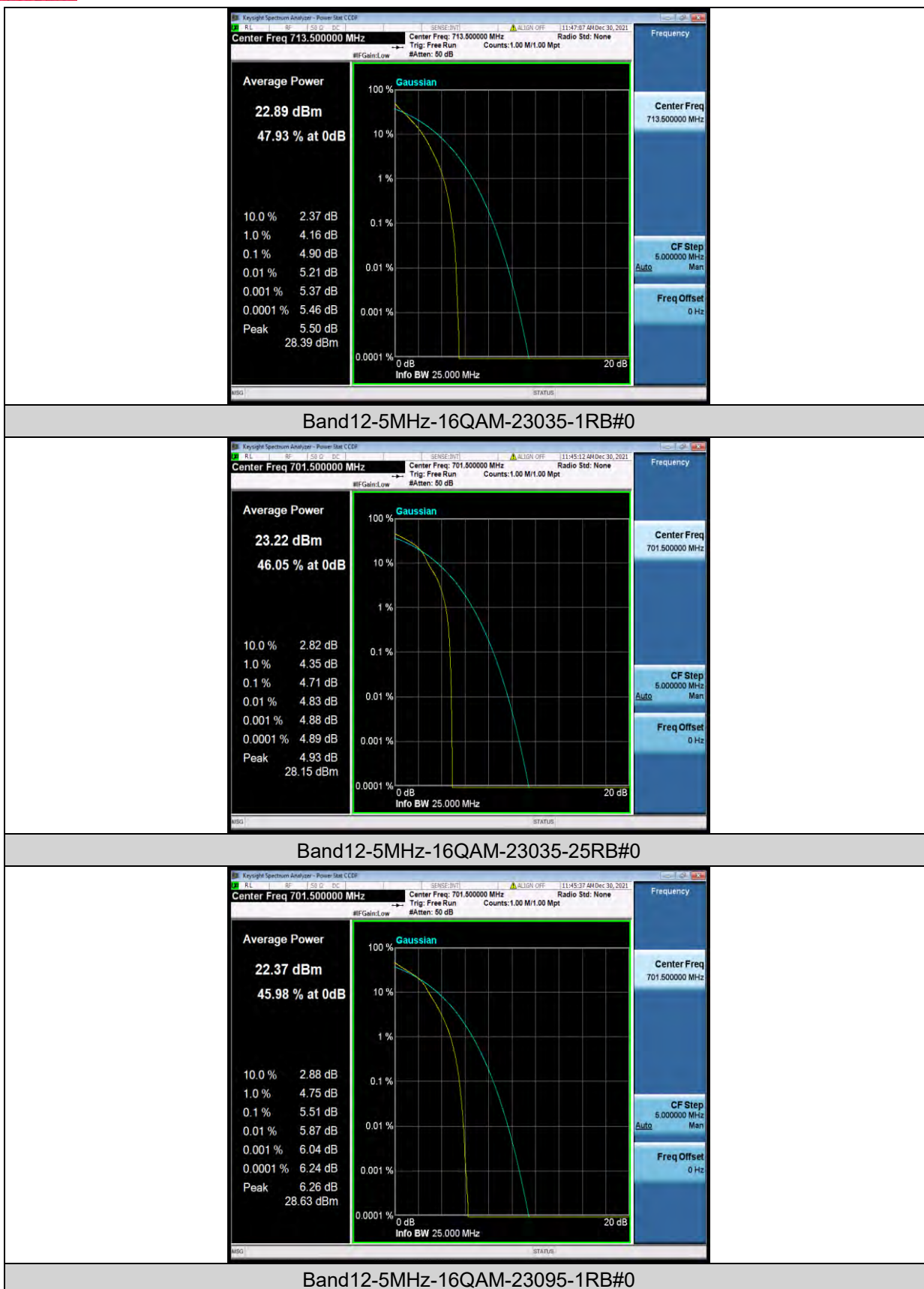


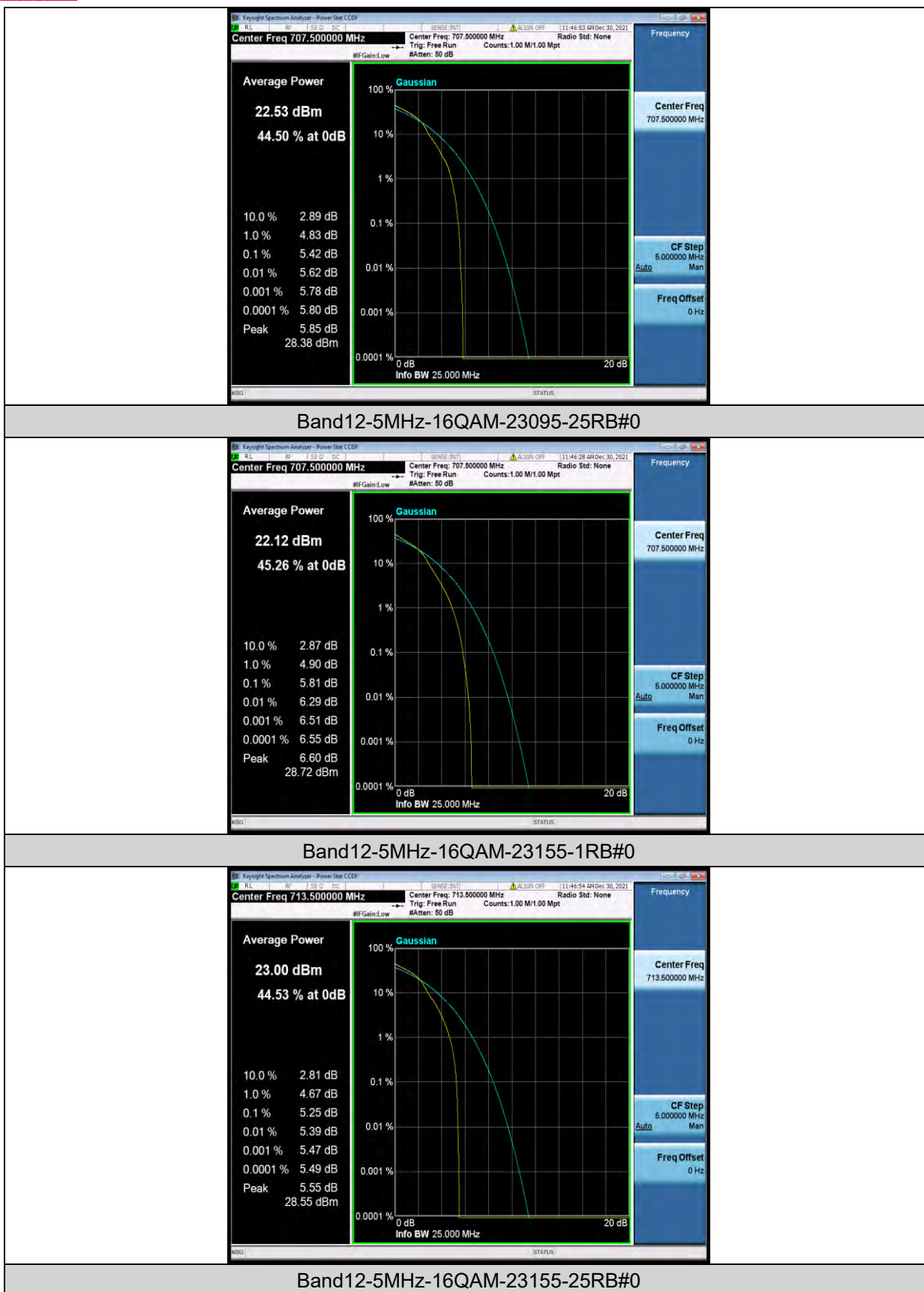
Band12-5MHz-QPSK-23035-25RB#0

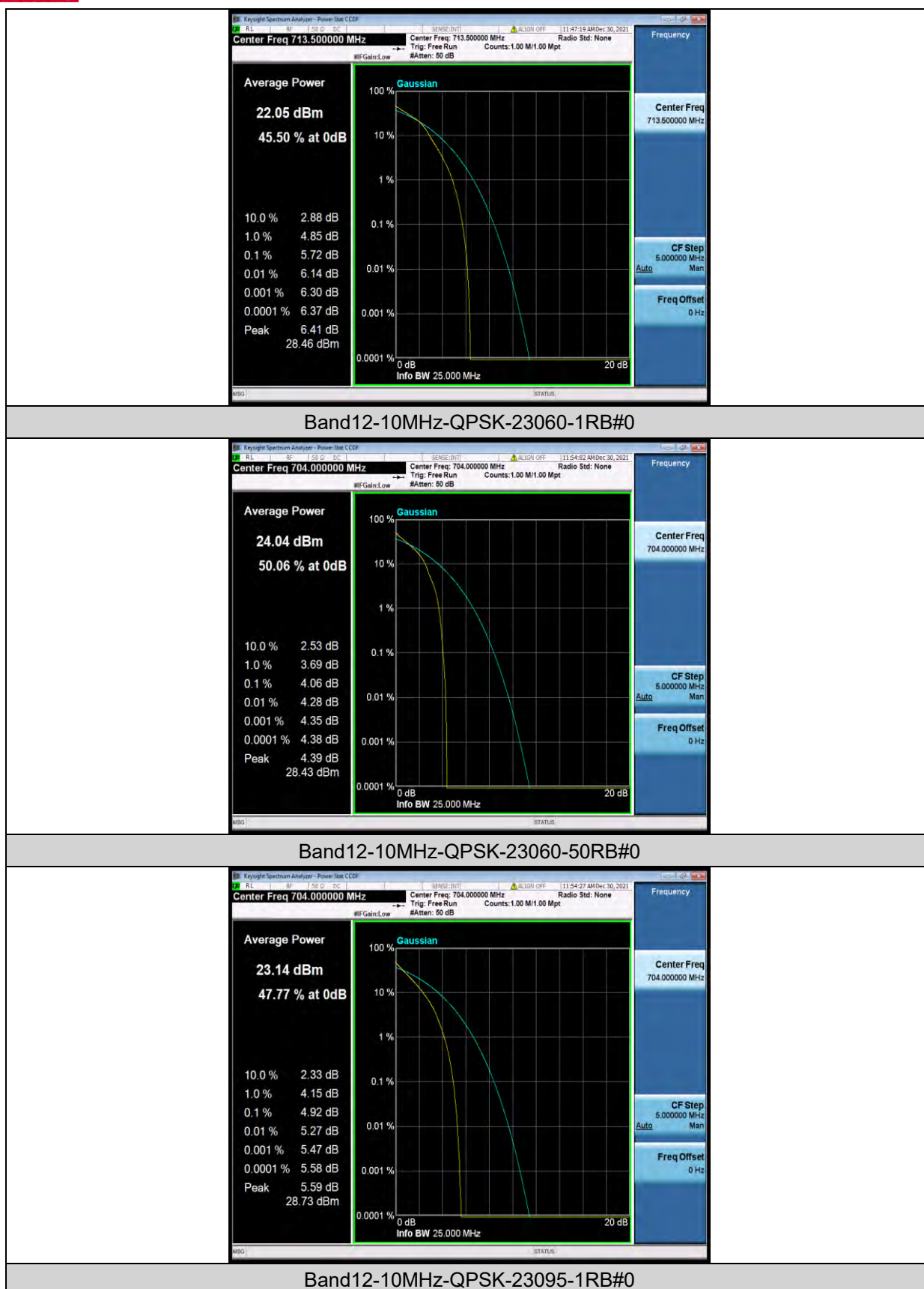


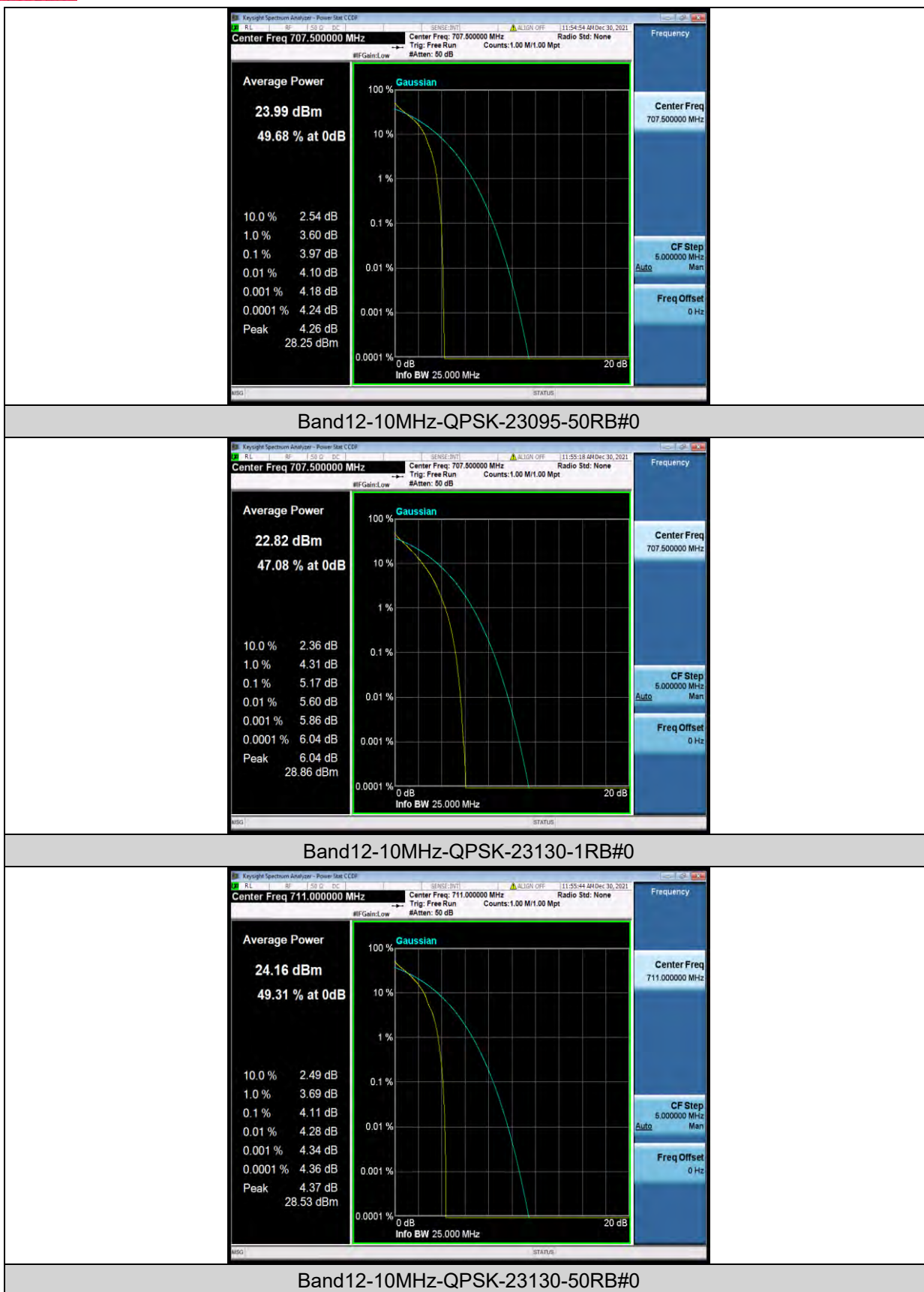
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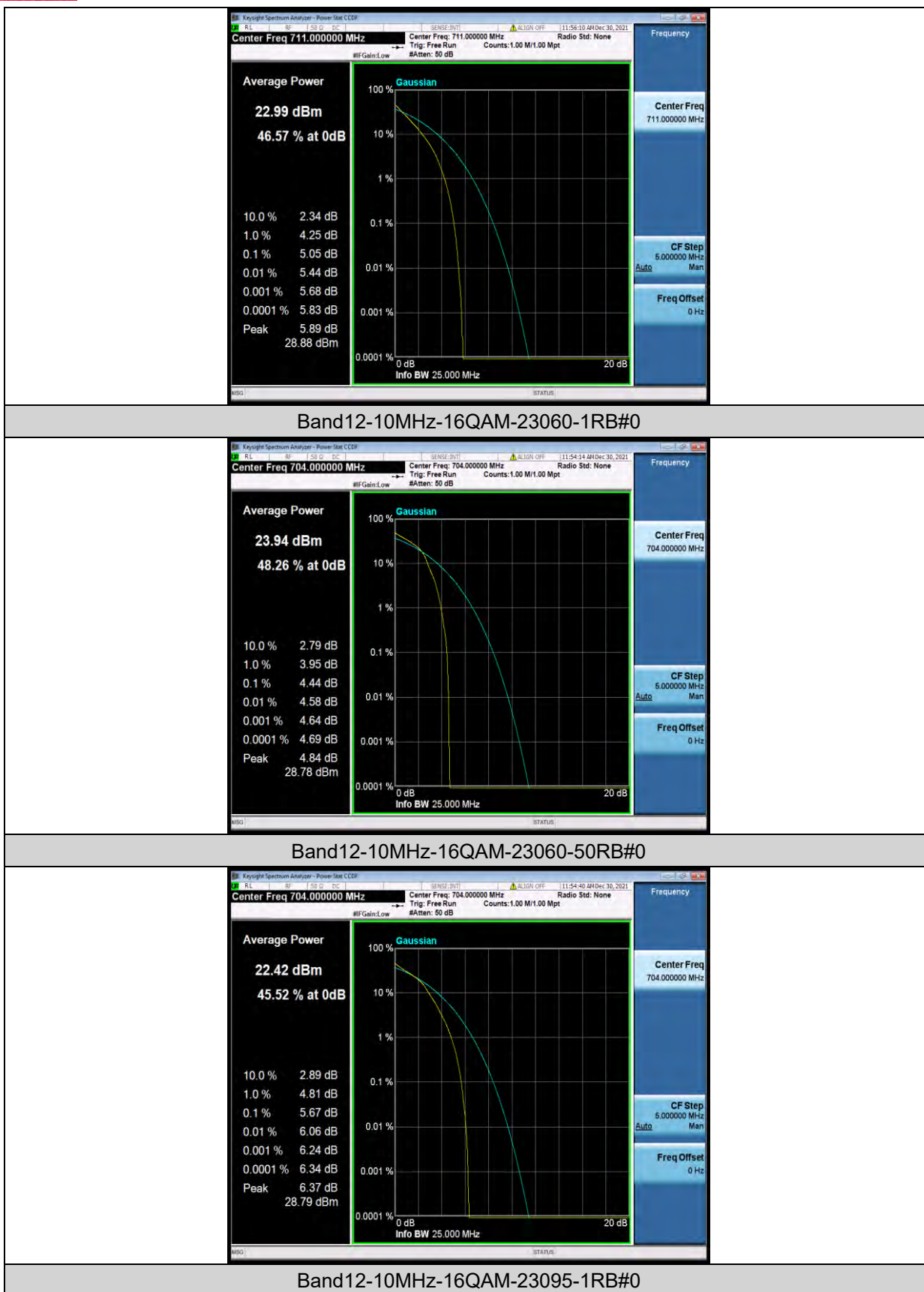


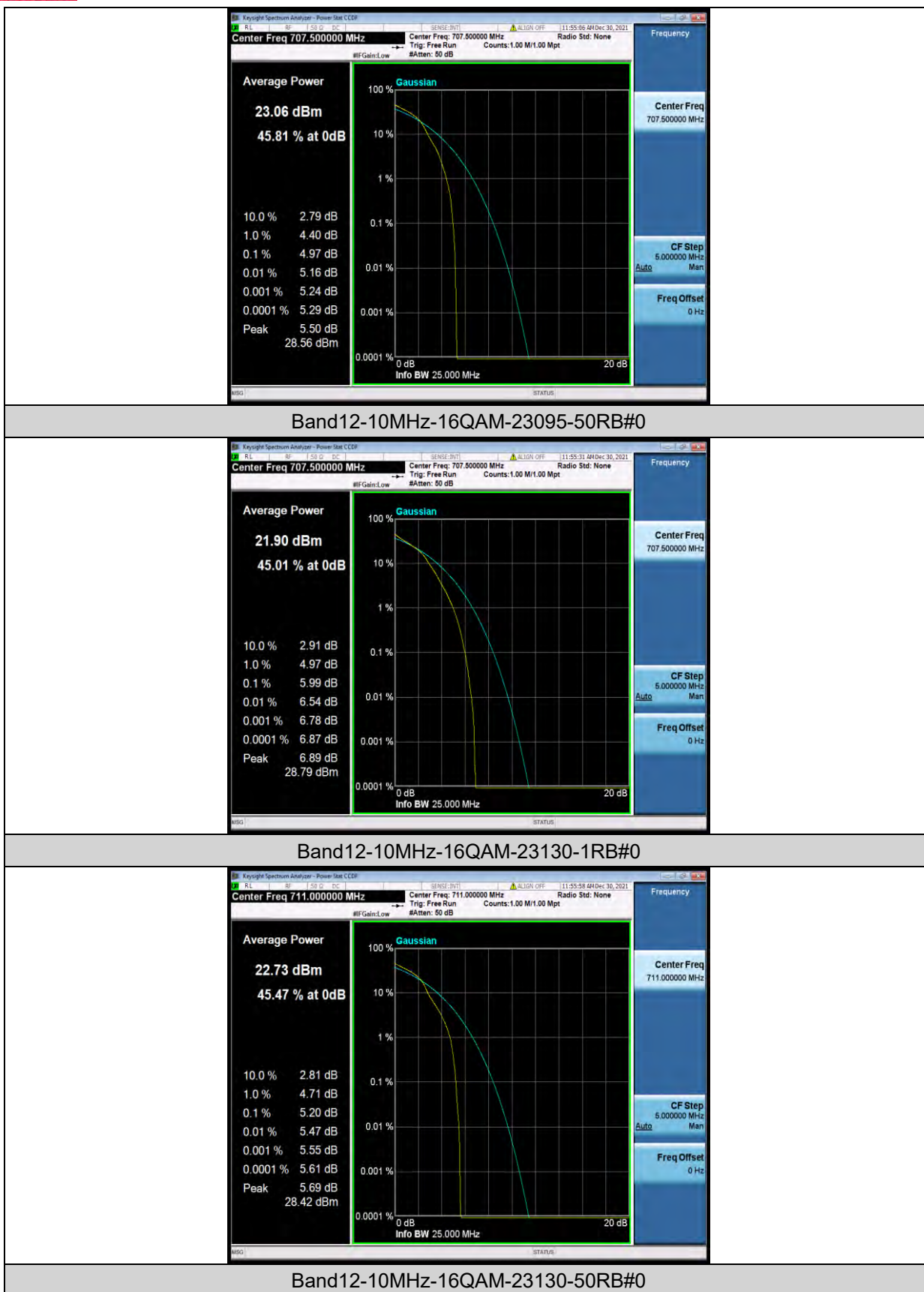


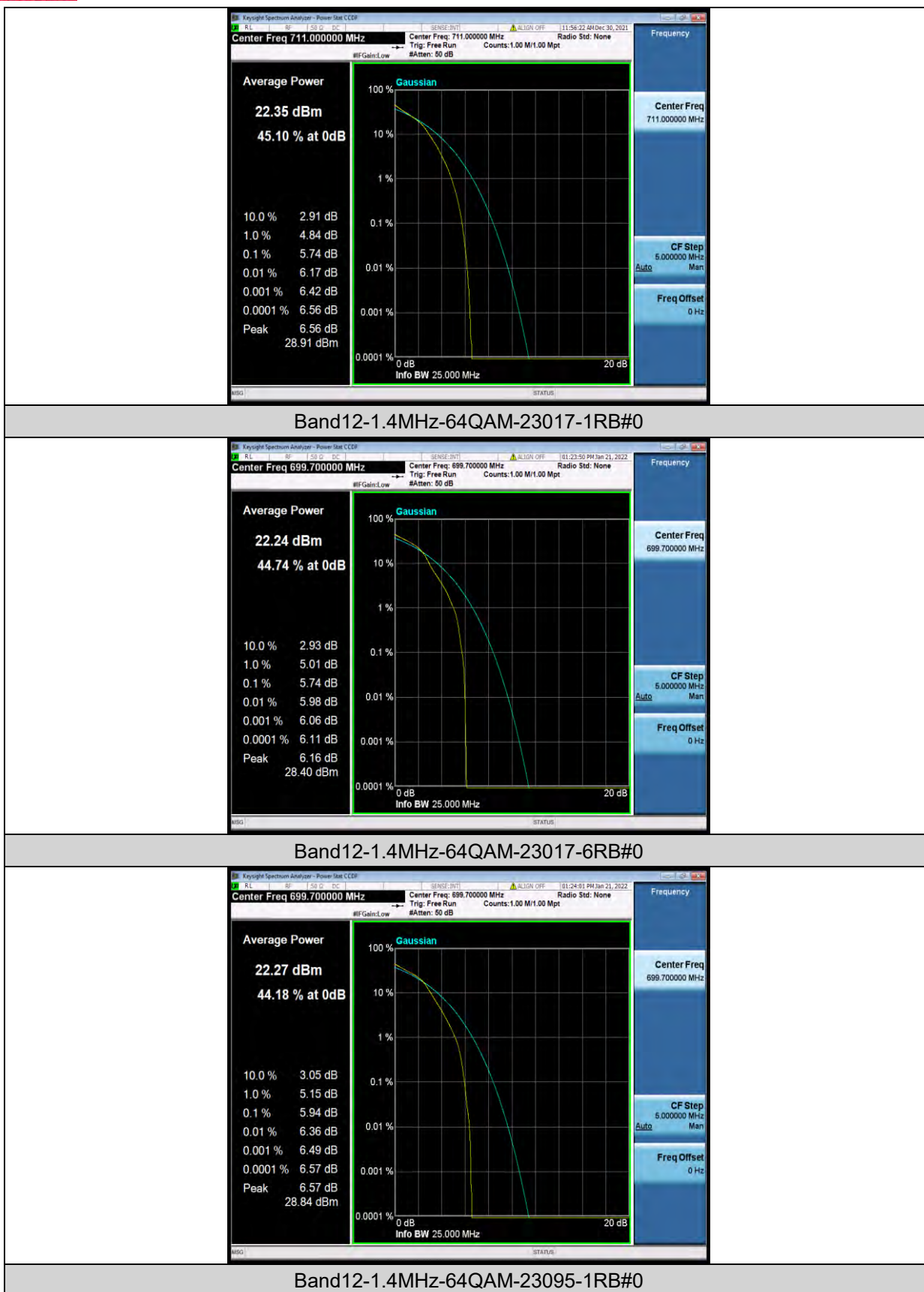


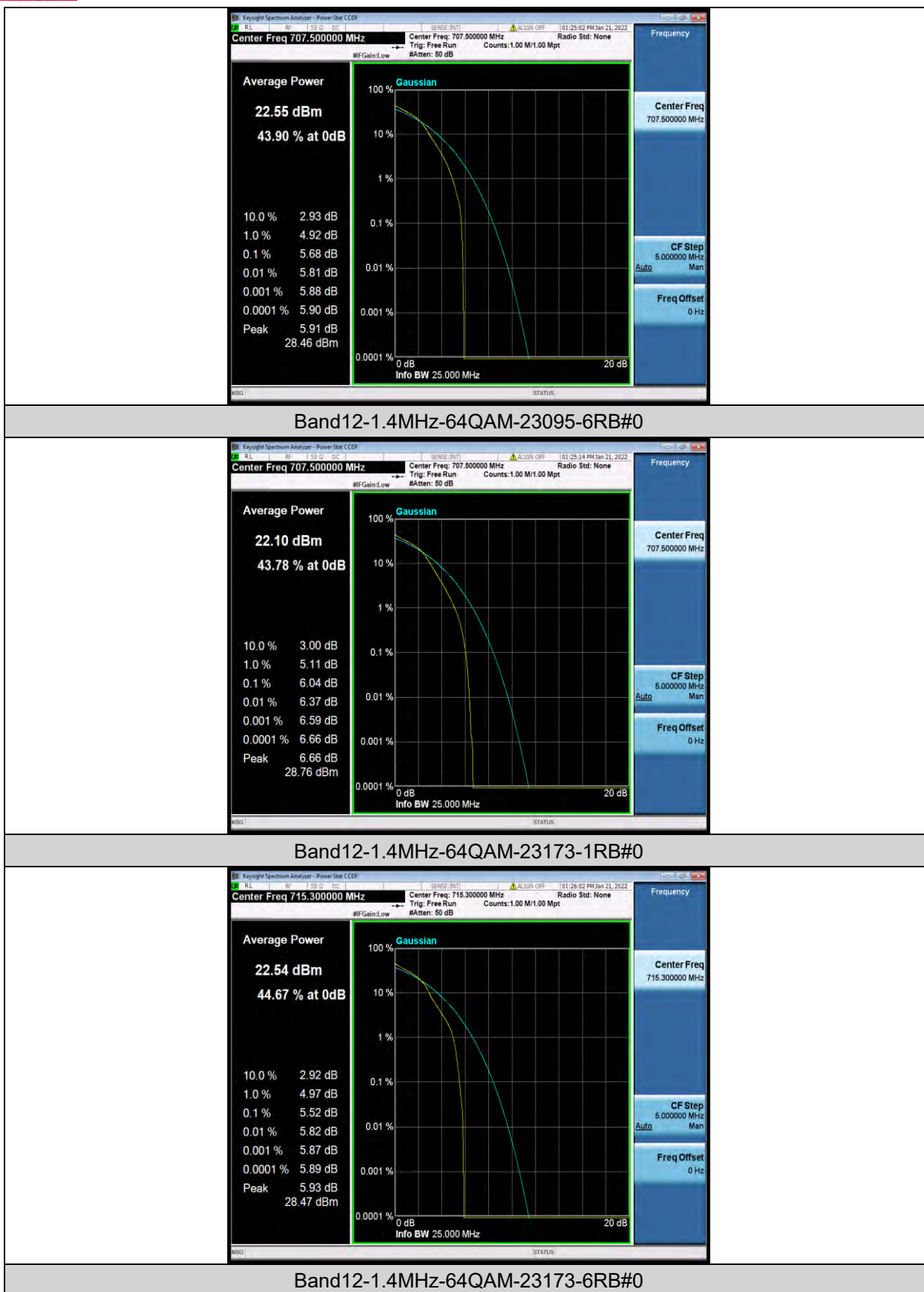


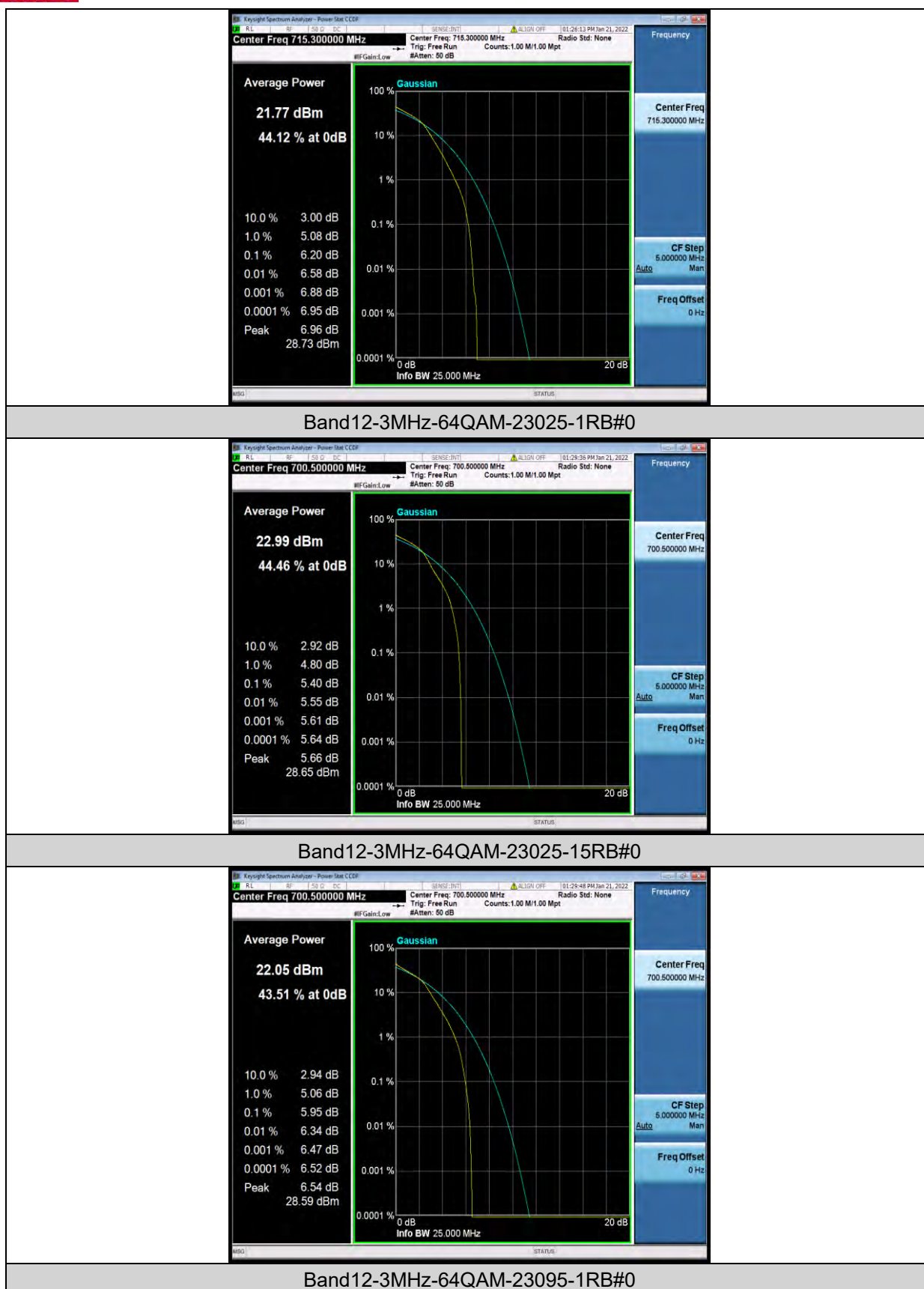


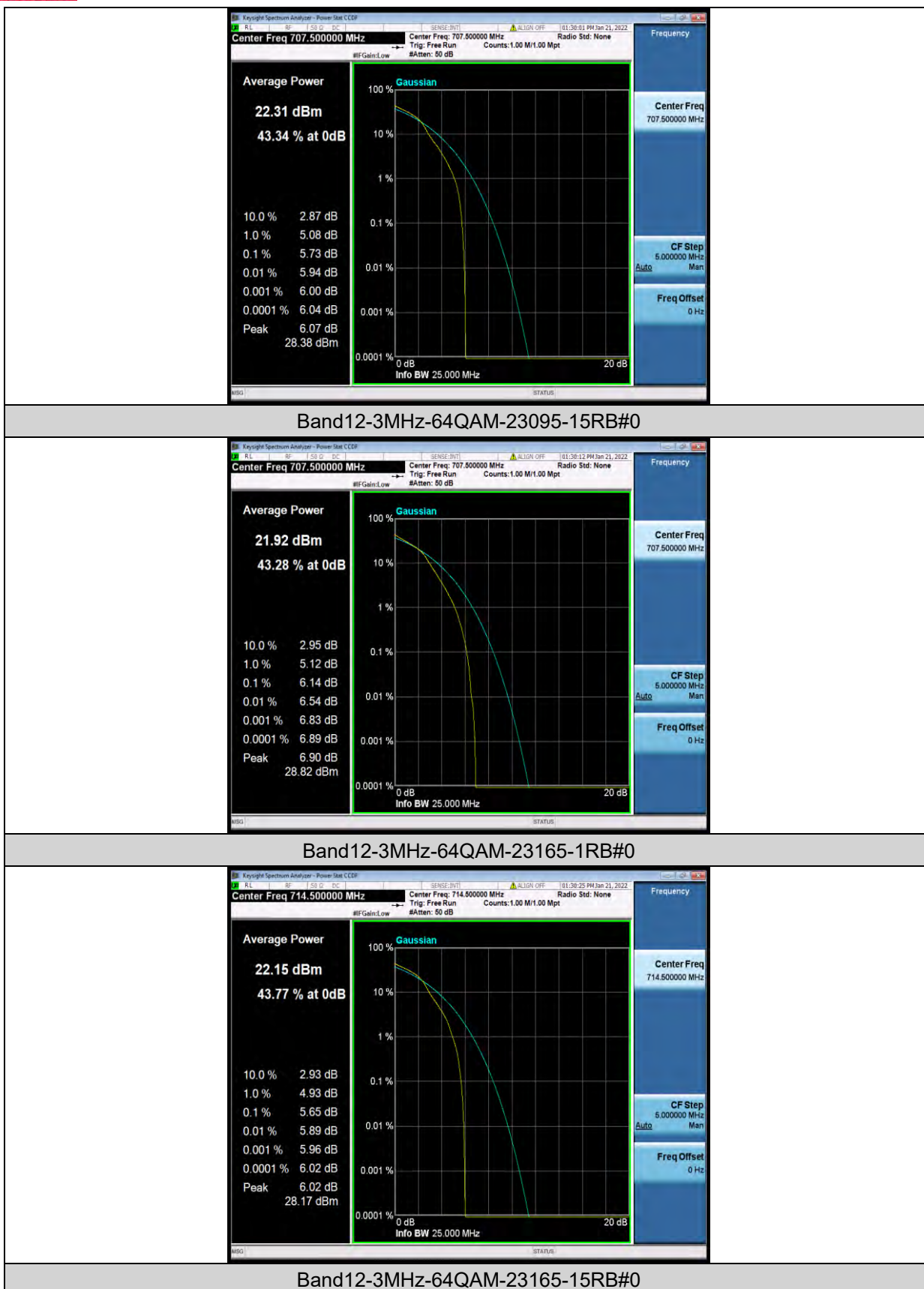


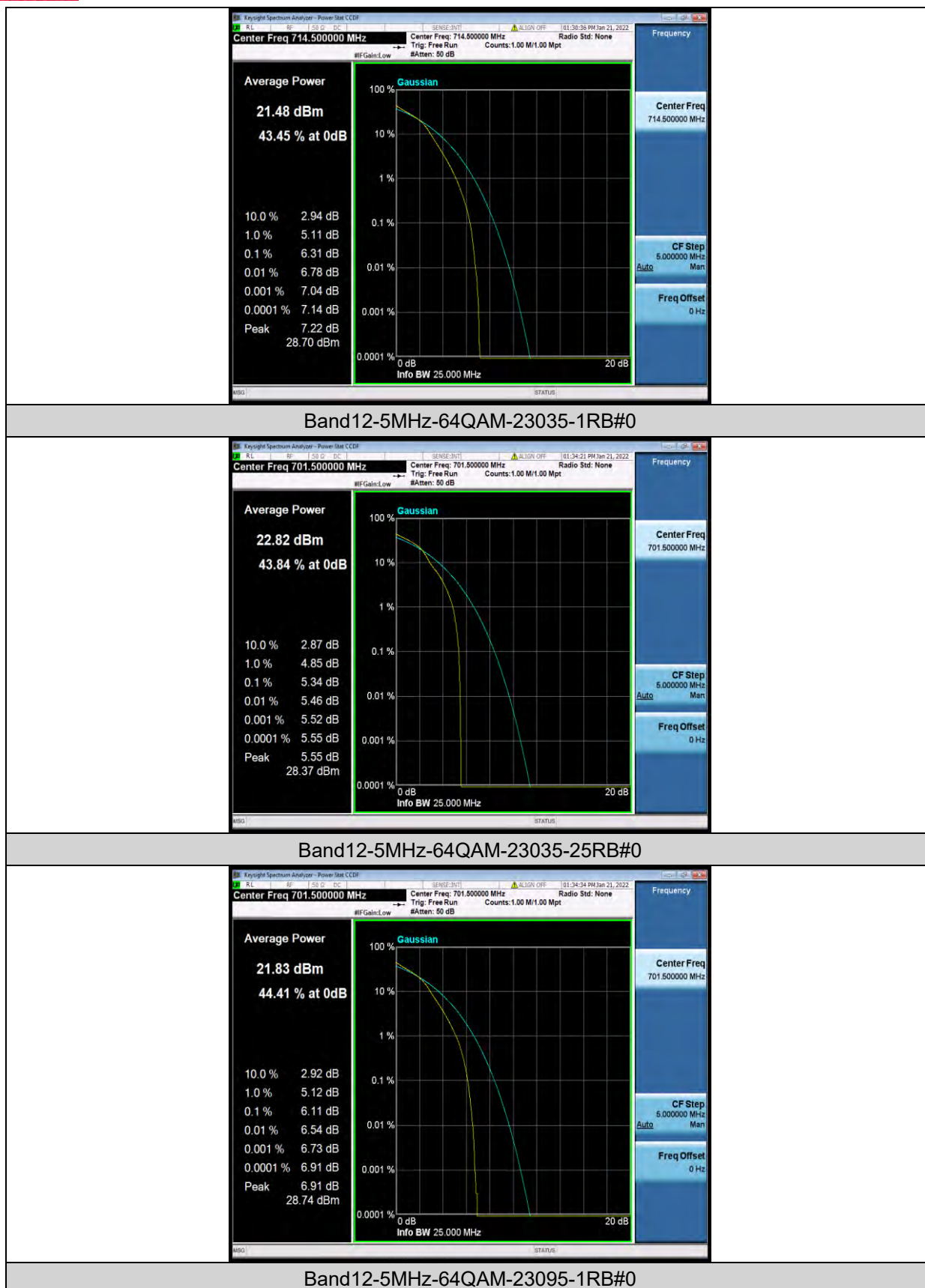


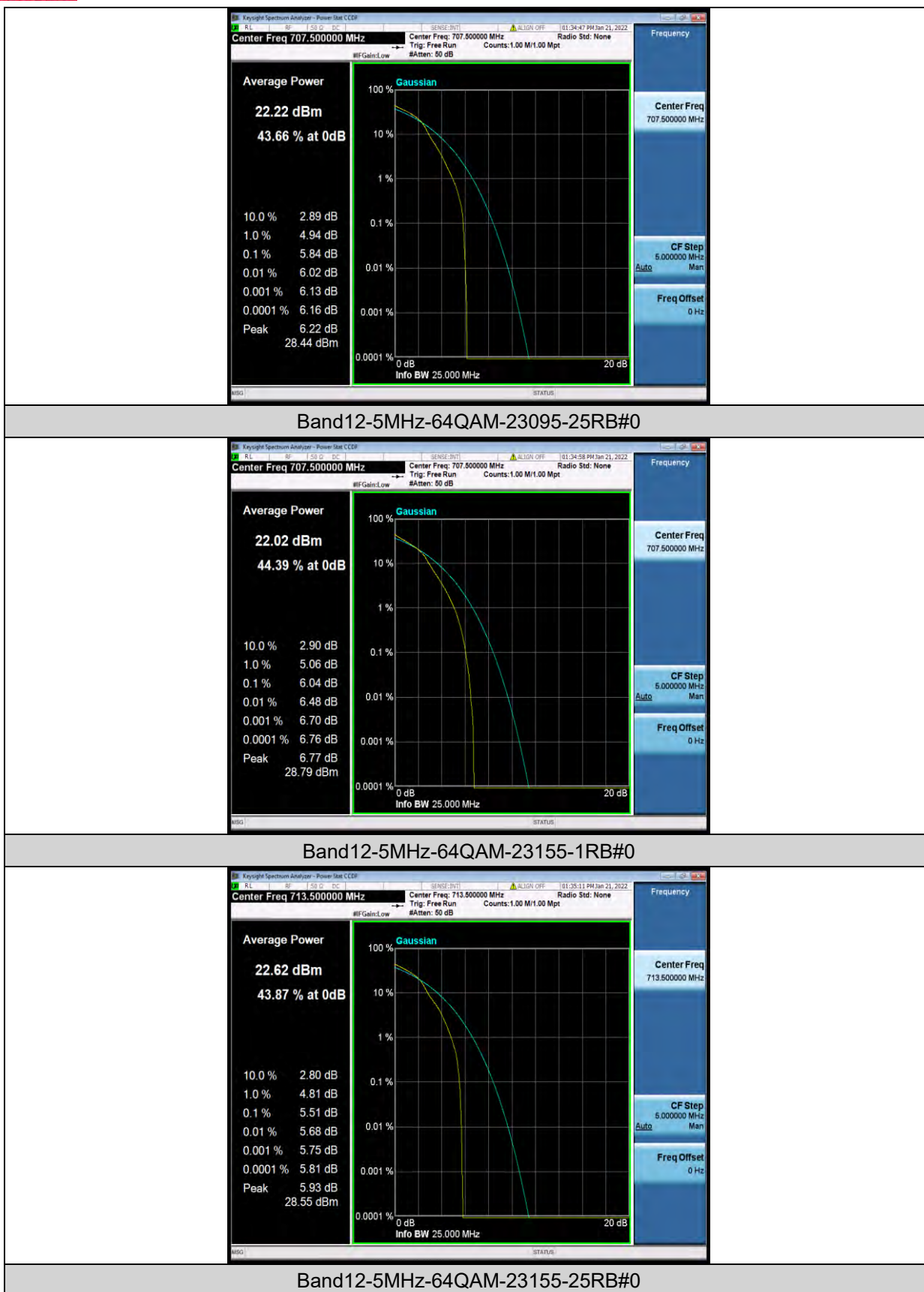


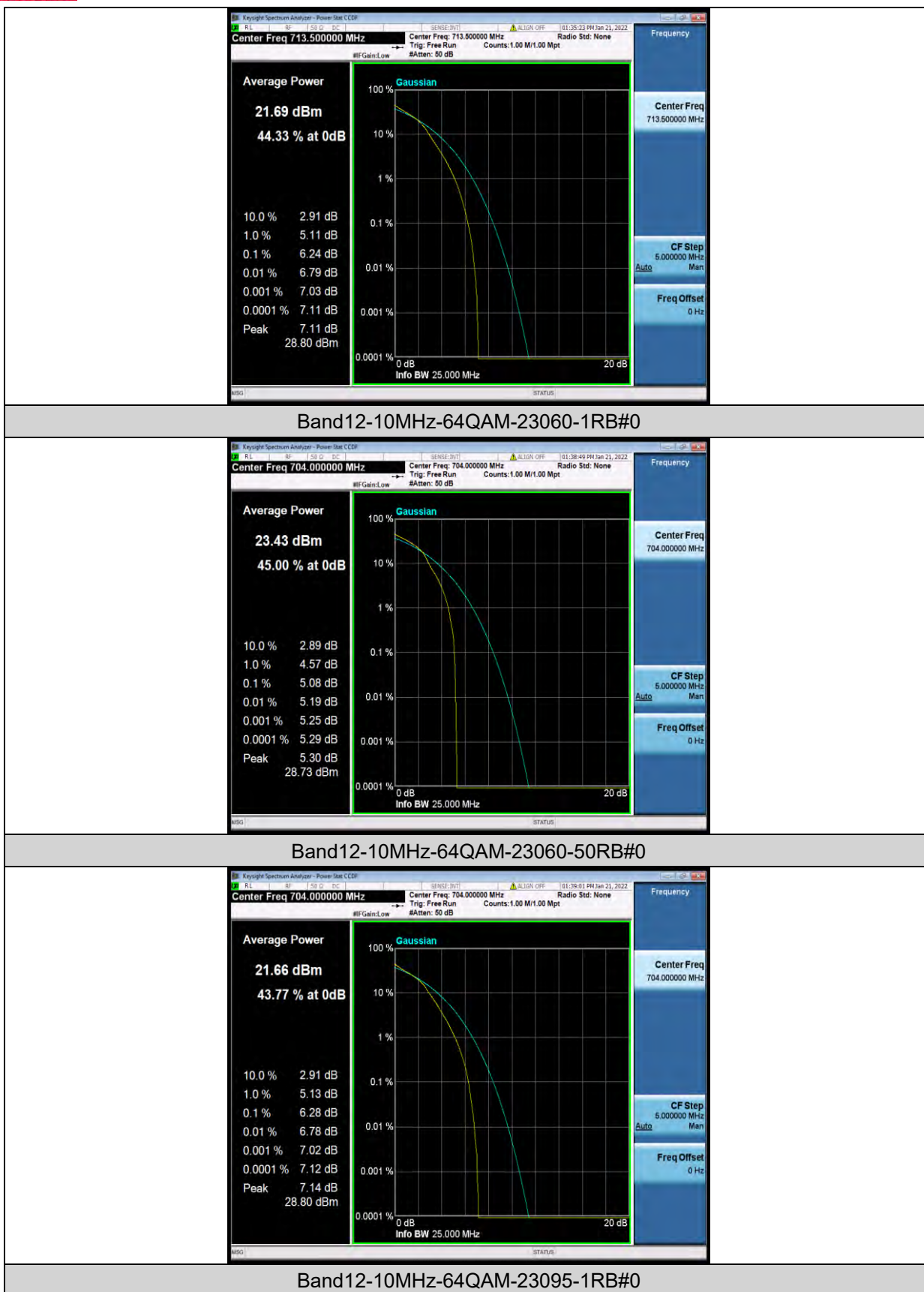


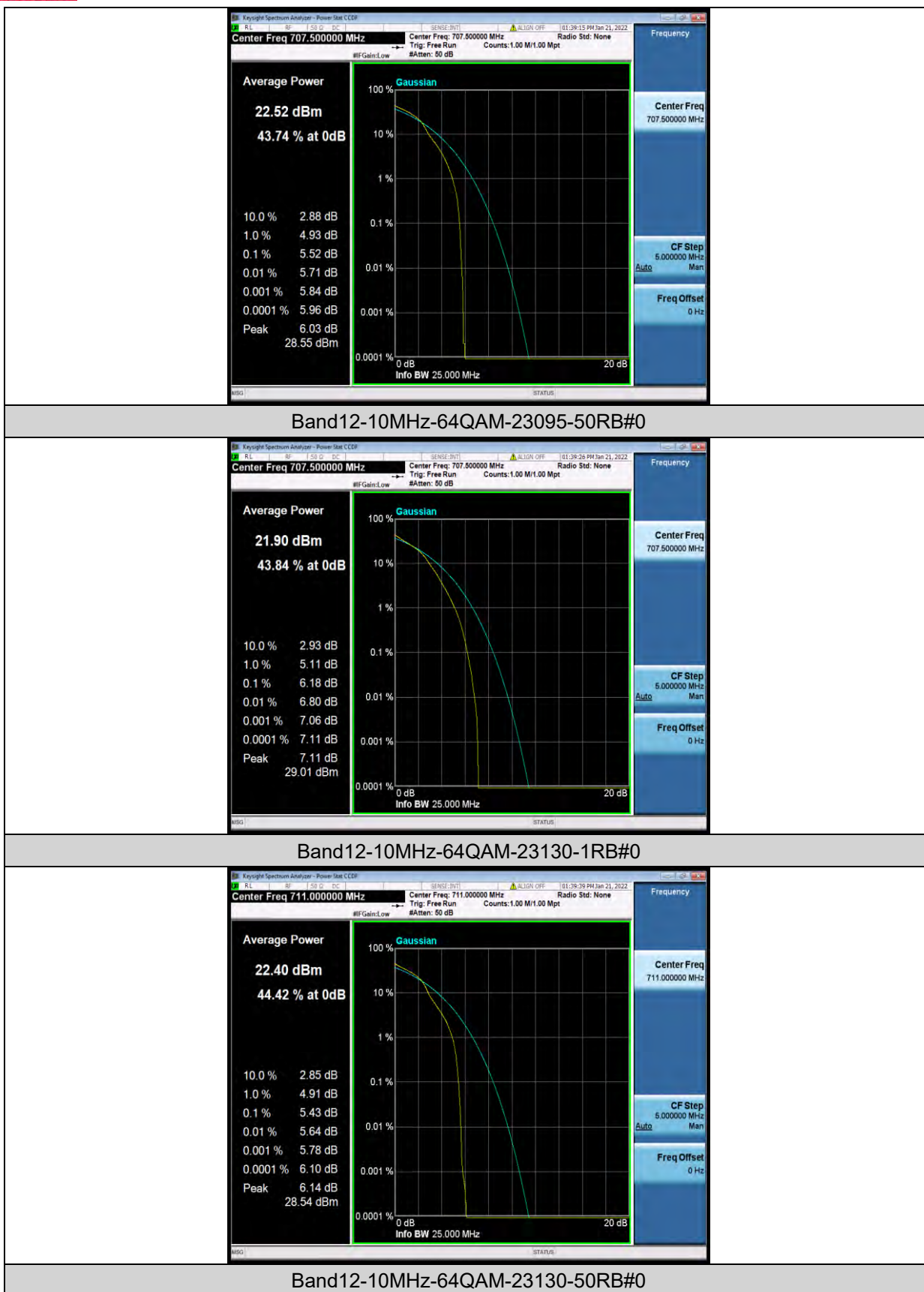


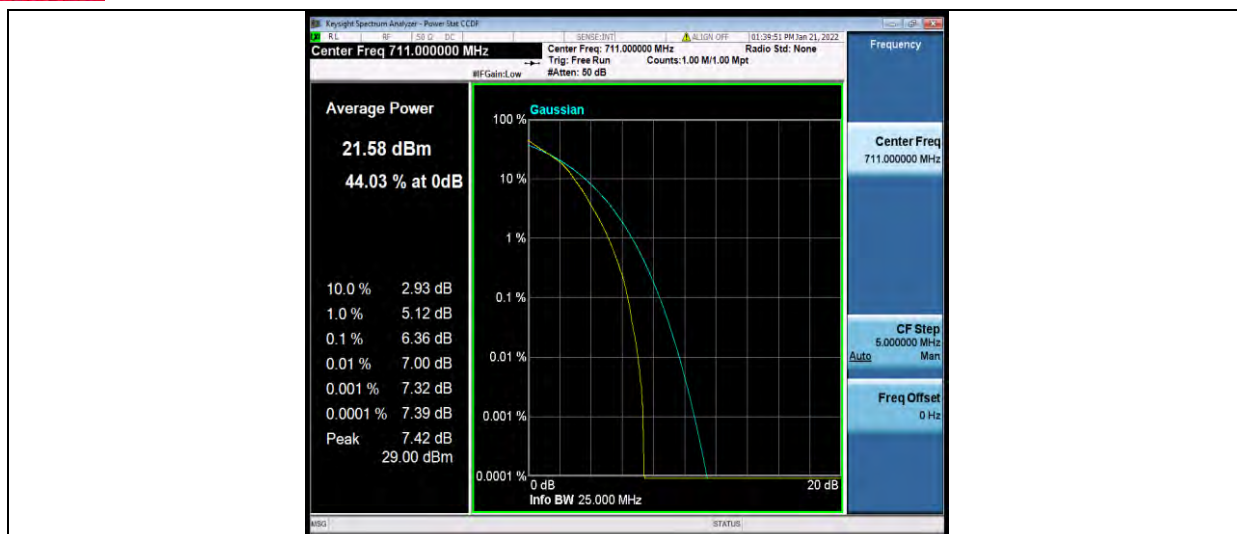










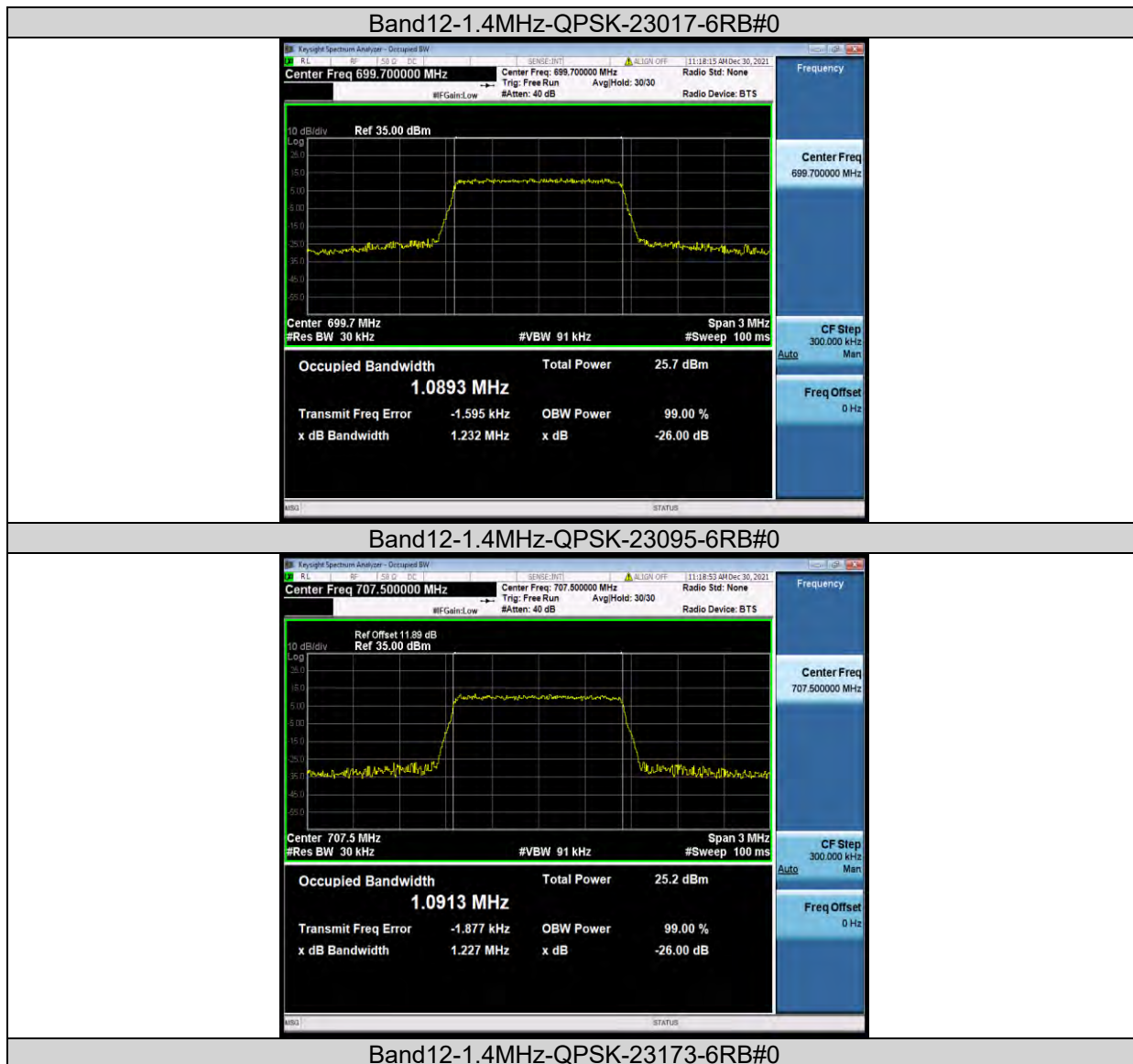


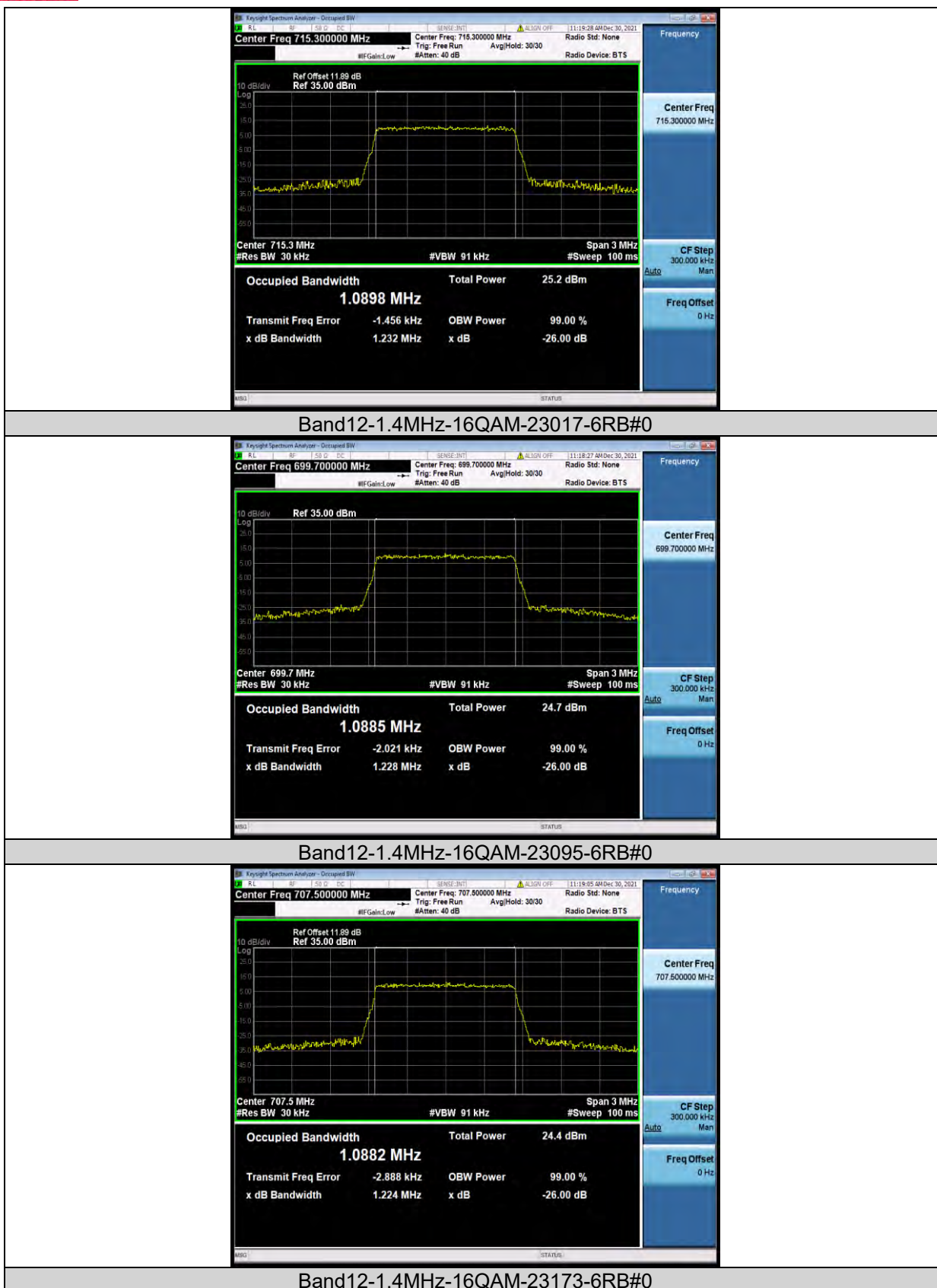
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

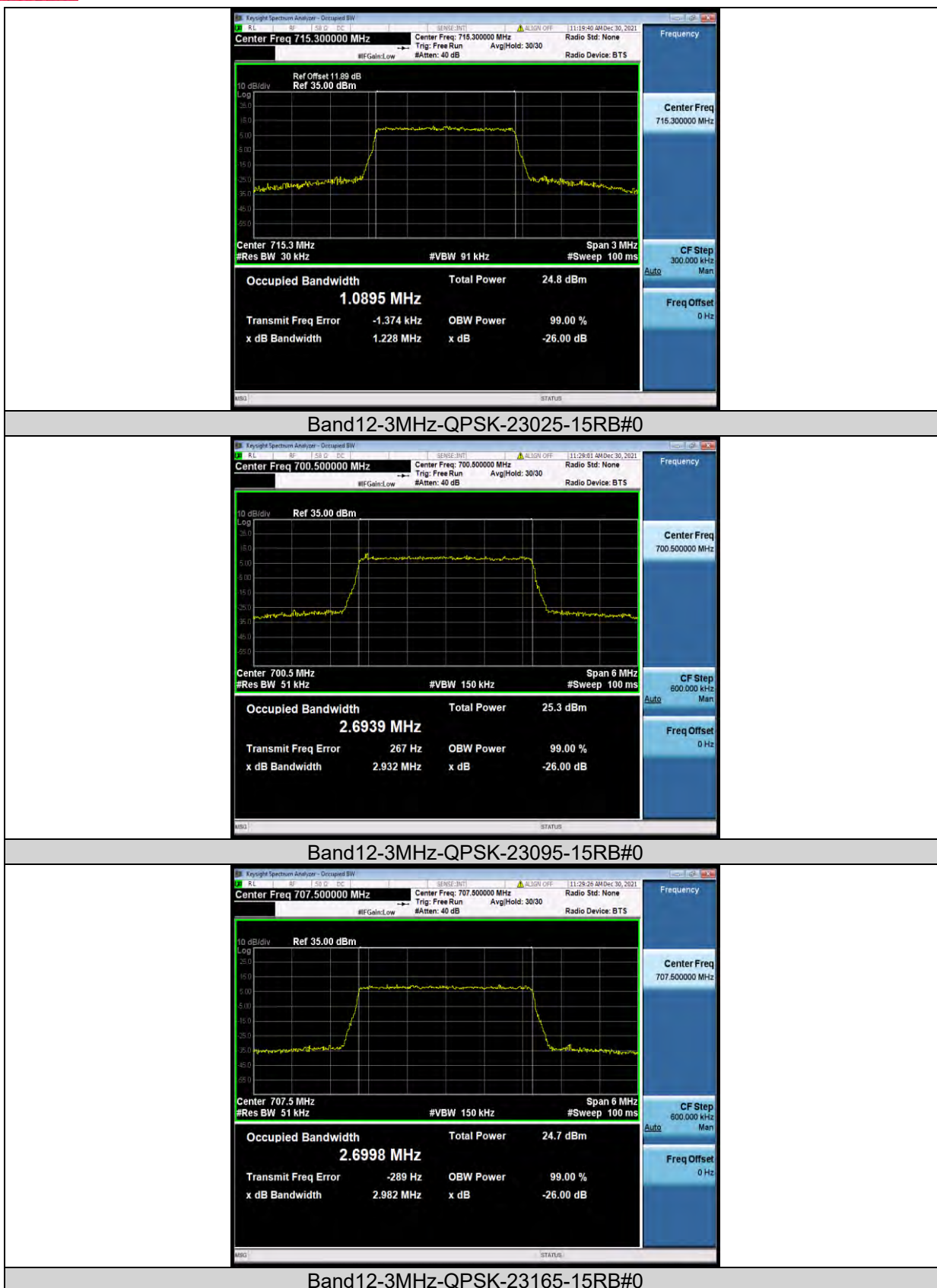
Test Result

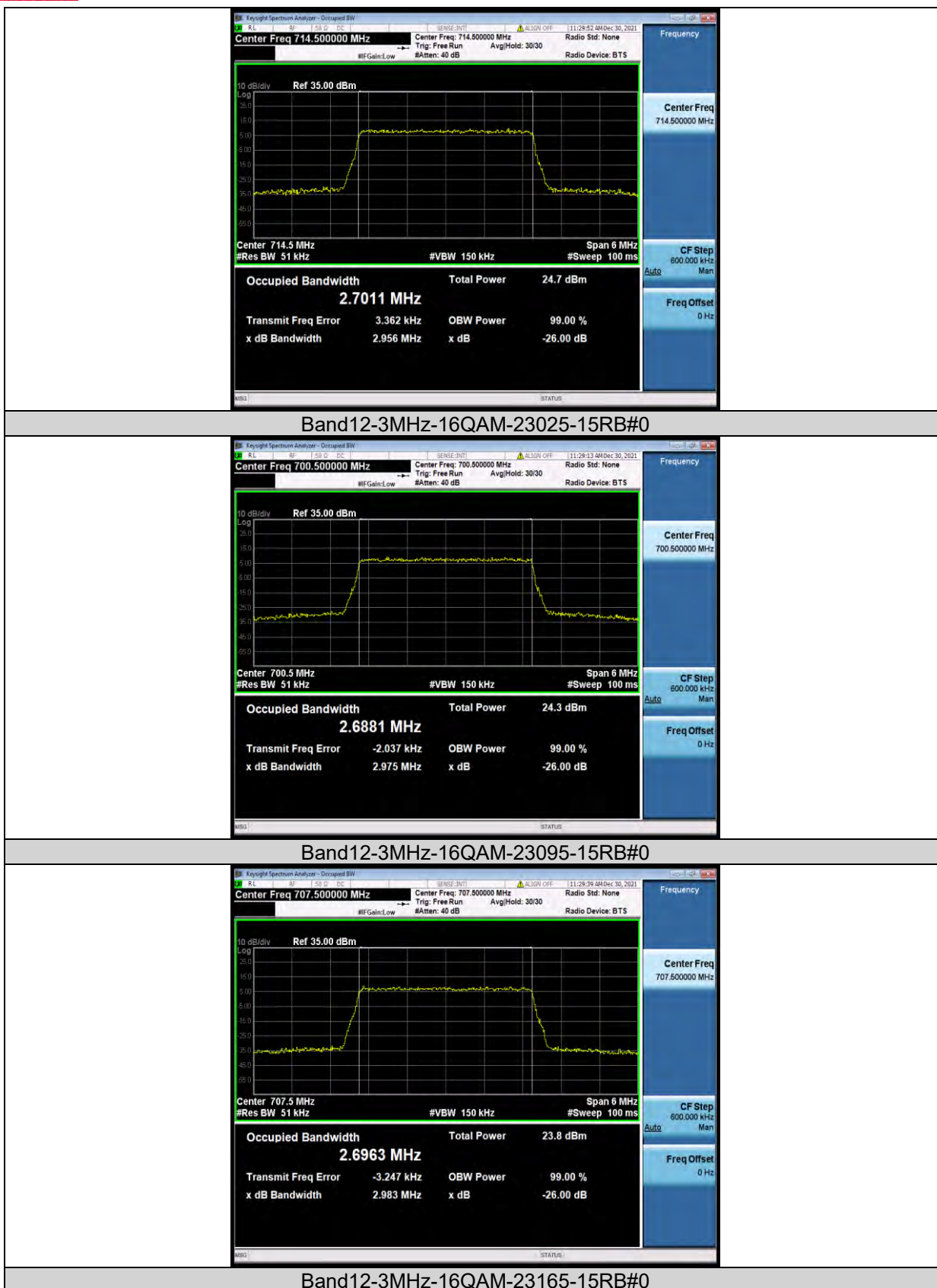
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0893	1.232	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0913	1.227	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0898	1.232	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0885	1.228	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0882	1.224	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0895	1.228	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6939	2.932	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6998	2.982	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7011	2.956	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6881	2.975	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6963	2.983	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6952	2.961	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4974	4.880	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.4943	4.892	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5014	4.881	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4986	4.877	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.4932	4.887	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5022	4.871	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9795	9.555	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9832	9.584	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9765	9.556	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9647	9.563	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9814	9.604	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9788	9.552	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.0879	1.224	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.0906	1.233	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.0886	1.223	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.6917	2.962	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.6971	3.003	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.6951	2.964	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.5021	4.877	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.4974	4.909	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.5043	4.870	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.9677	9.604	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.9799	9.604	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.9699	9.586	PASS

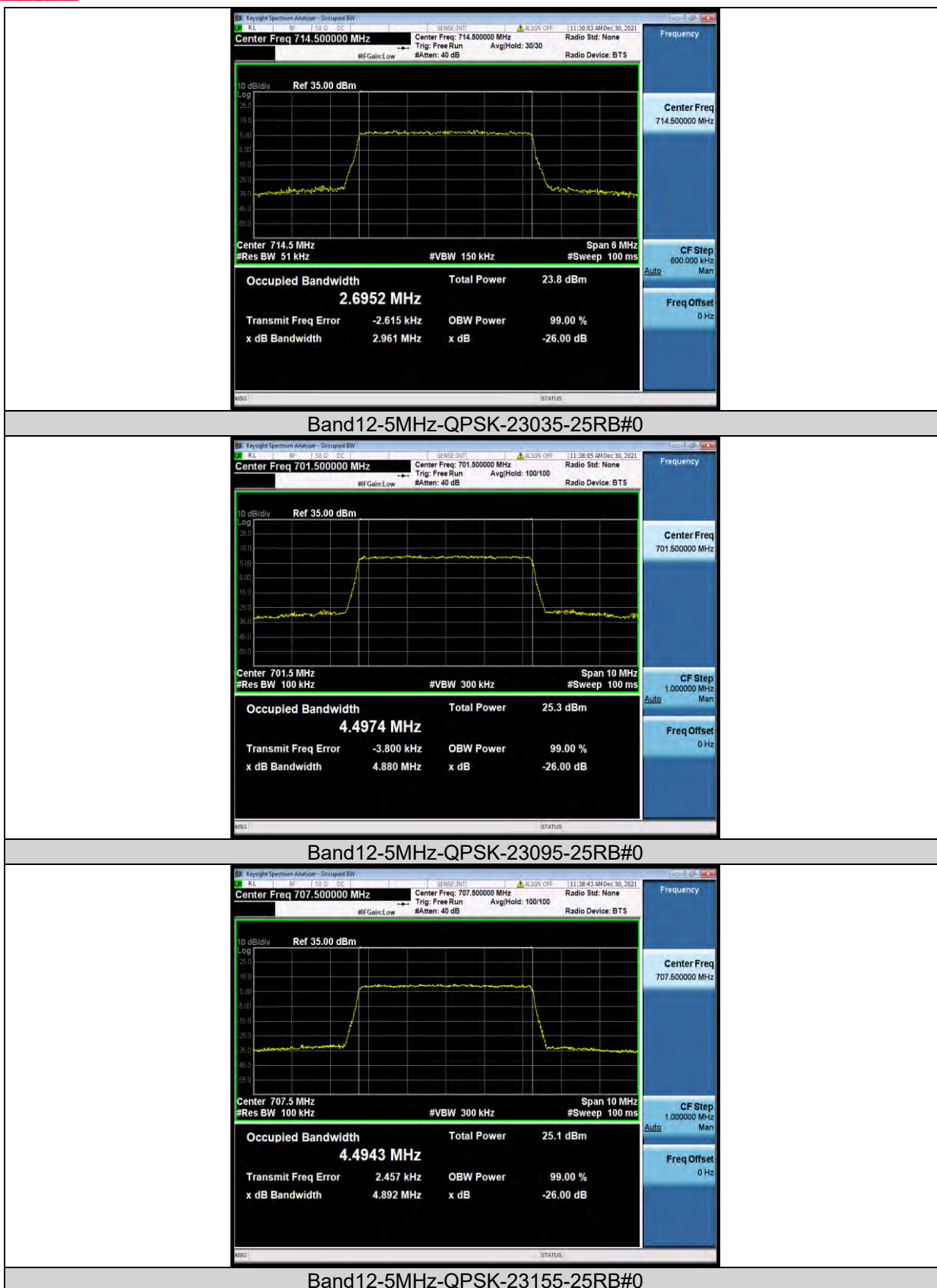
Test Graphs









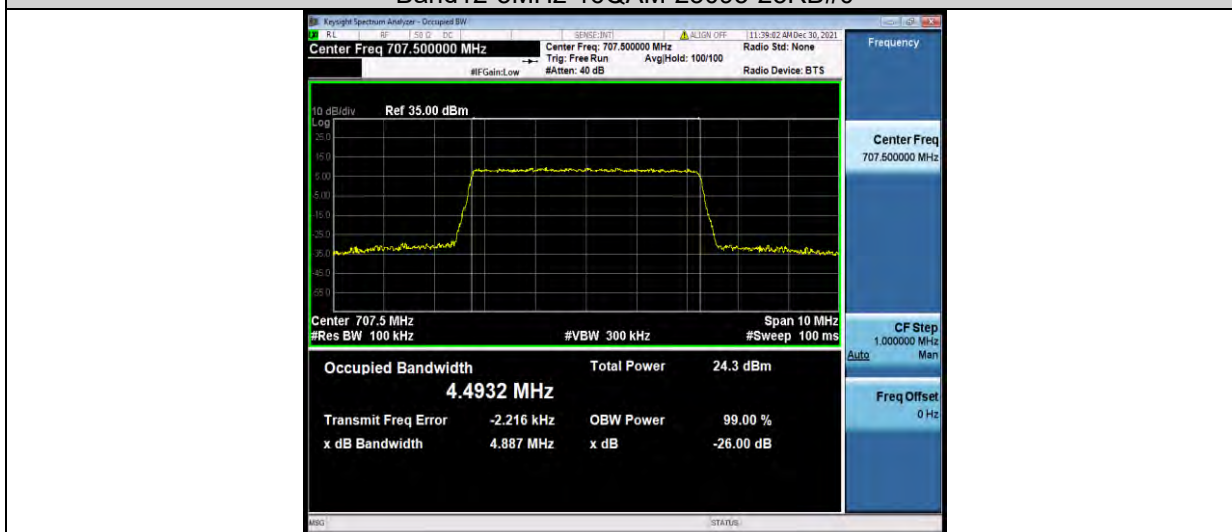




Band12-5MHz-16QAM-23035-25RB#0



Band12-5MHz-16QAM-23095-25RB#0



Band12-5MHz-16QAM-23155-25RB#0





Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0

