

APPENDIX J

LTE BAND 41

PEAK-TO-AVERAGE RATIO(CCDF) TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	3.18	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	4.72	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	3.23	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.75	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	3.14	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.23	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	4.85	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.49	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	4.95	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	5.48	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	4.76	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	5.12	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	3.17	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	4.46	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	3.12	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	4.67	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	3.17	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	4.37	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	5.05	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	5.30	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	5.01	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	5.51	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	4.71	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	5.26	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	3.21	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	4.90	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	3.22	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.06	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	3.22	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	4.82	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	5.19	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	5.64	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	5.18	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	5.79	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	4.91	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	5.55	13	PASS

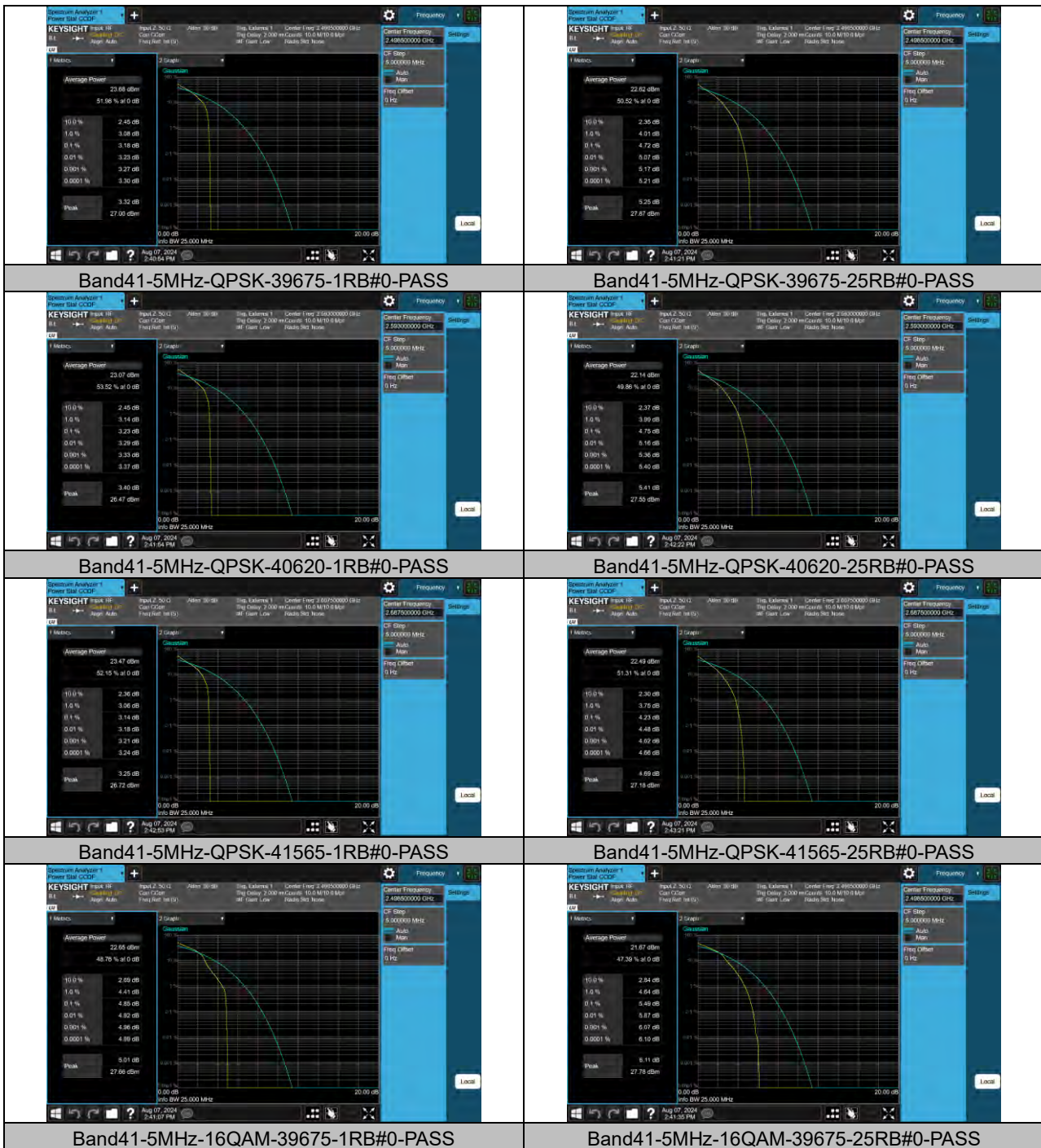


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Band41	20MHz	QPSK	39750	1RB#0	3.19	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	4.75	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	3.23	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	4.96	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	3.19	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	4.82	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	4.99	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.58	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	5.00	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	5.78	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	4.88	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	5.61	13	PASS

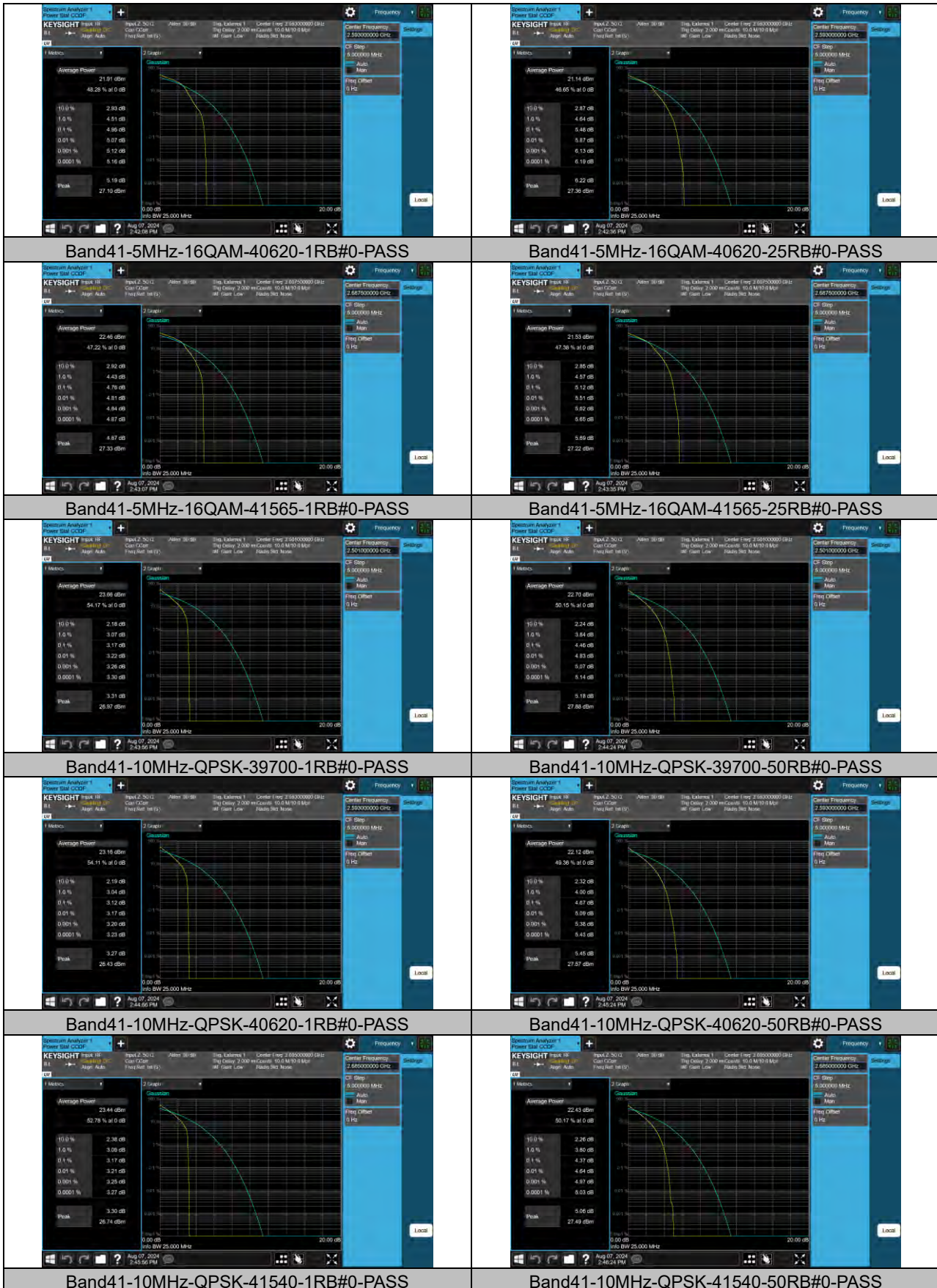
TEST GRAPHS

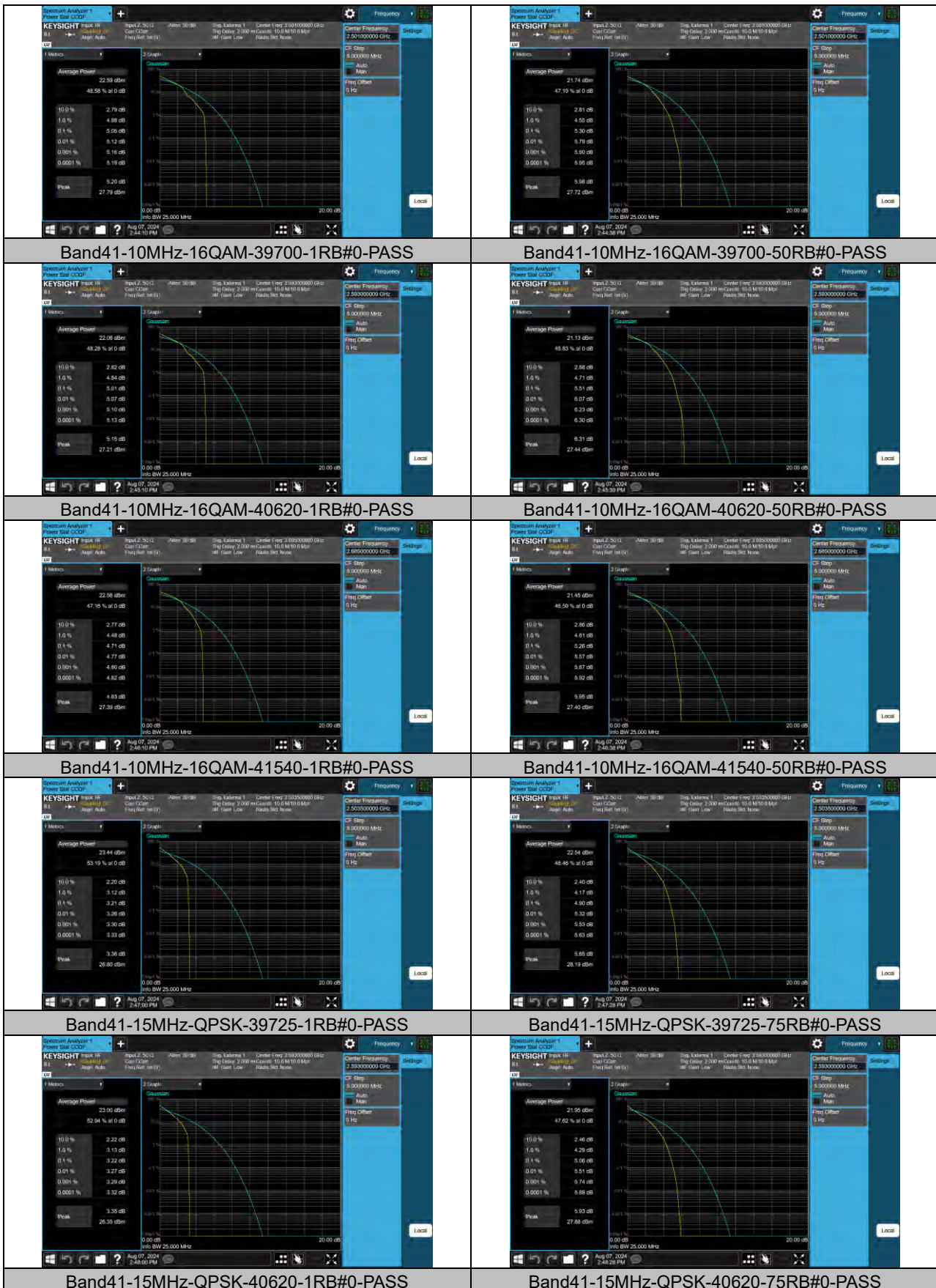


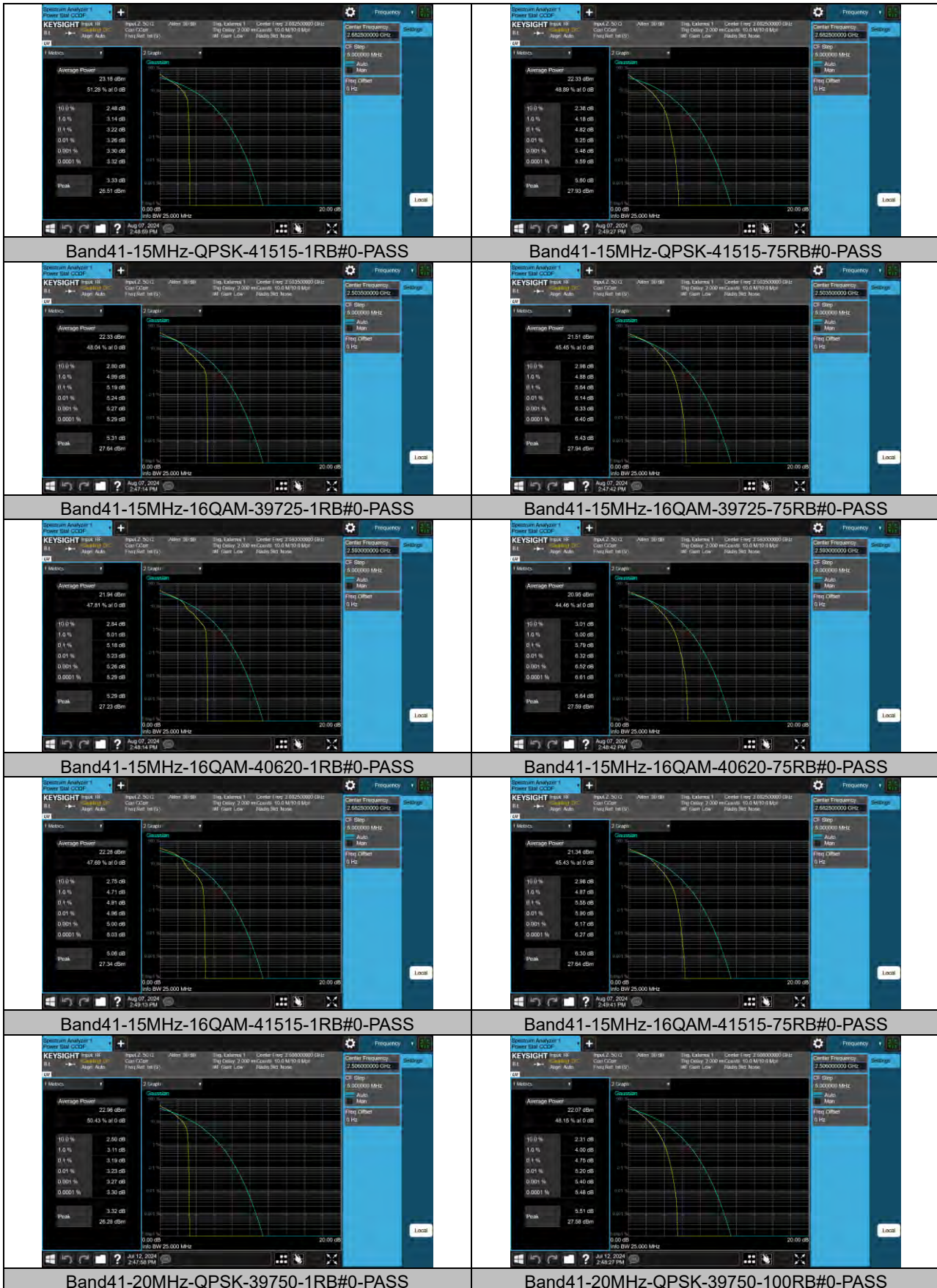


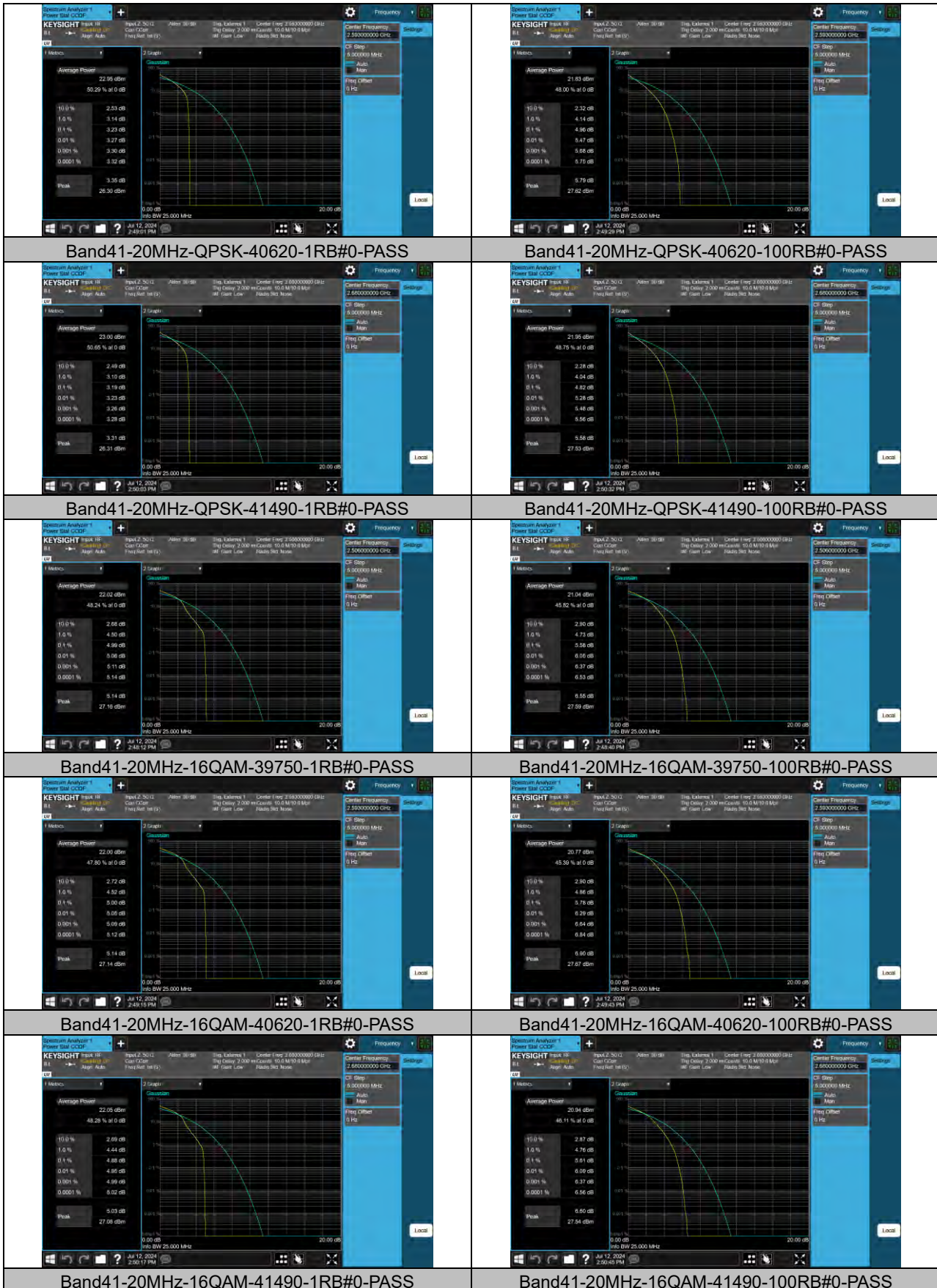
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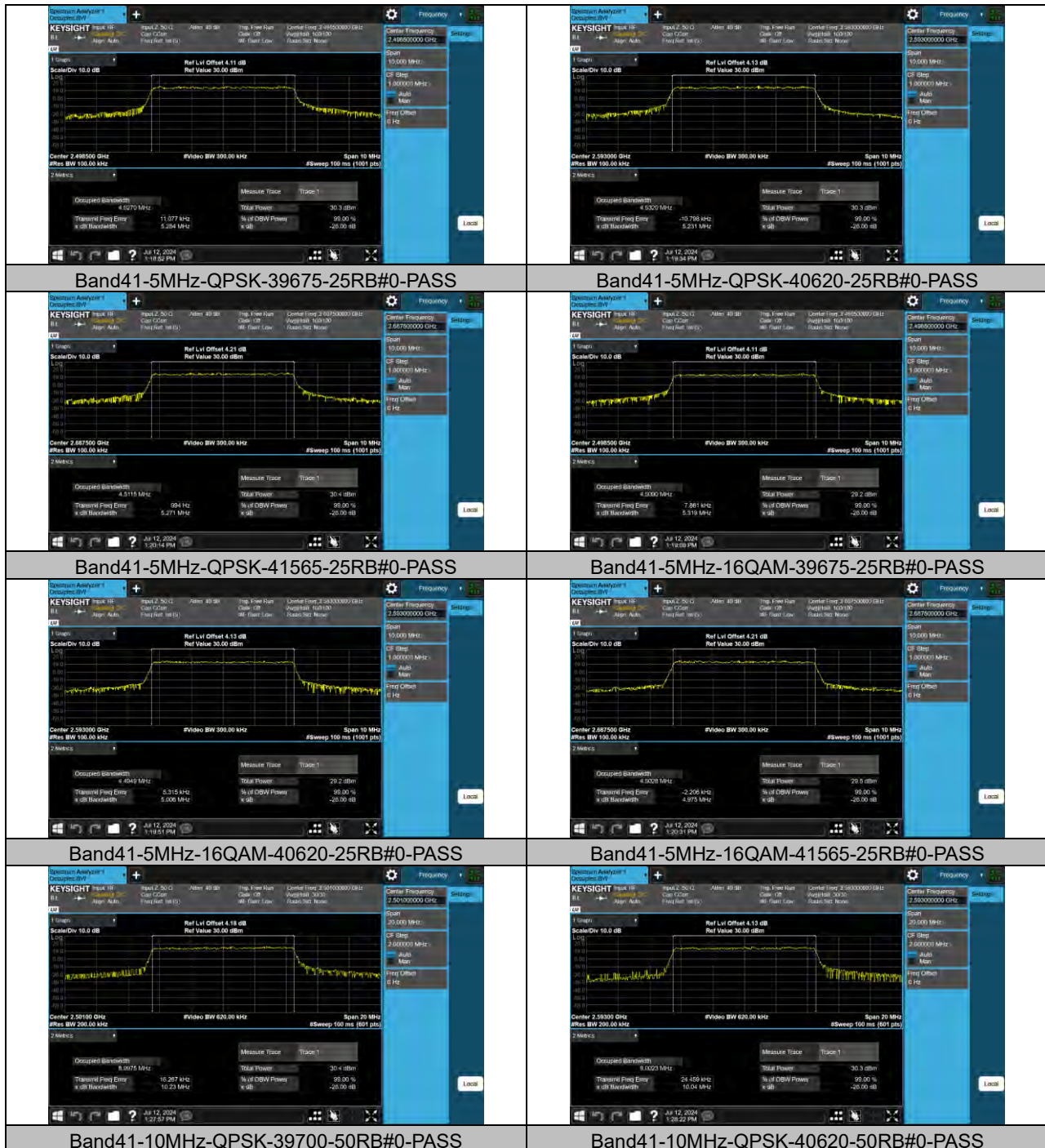


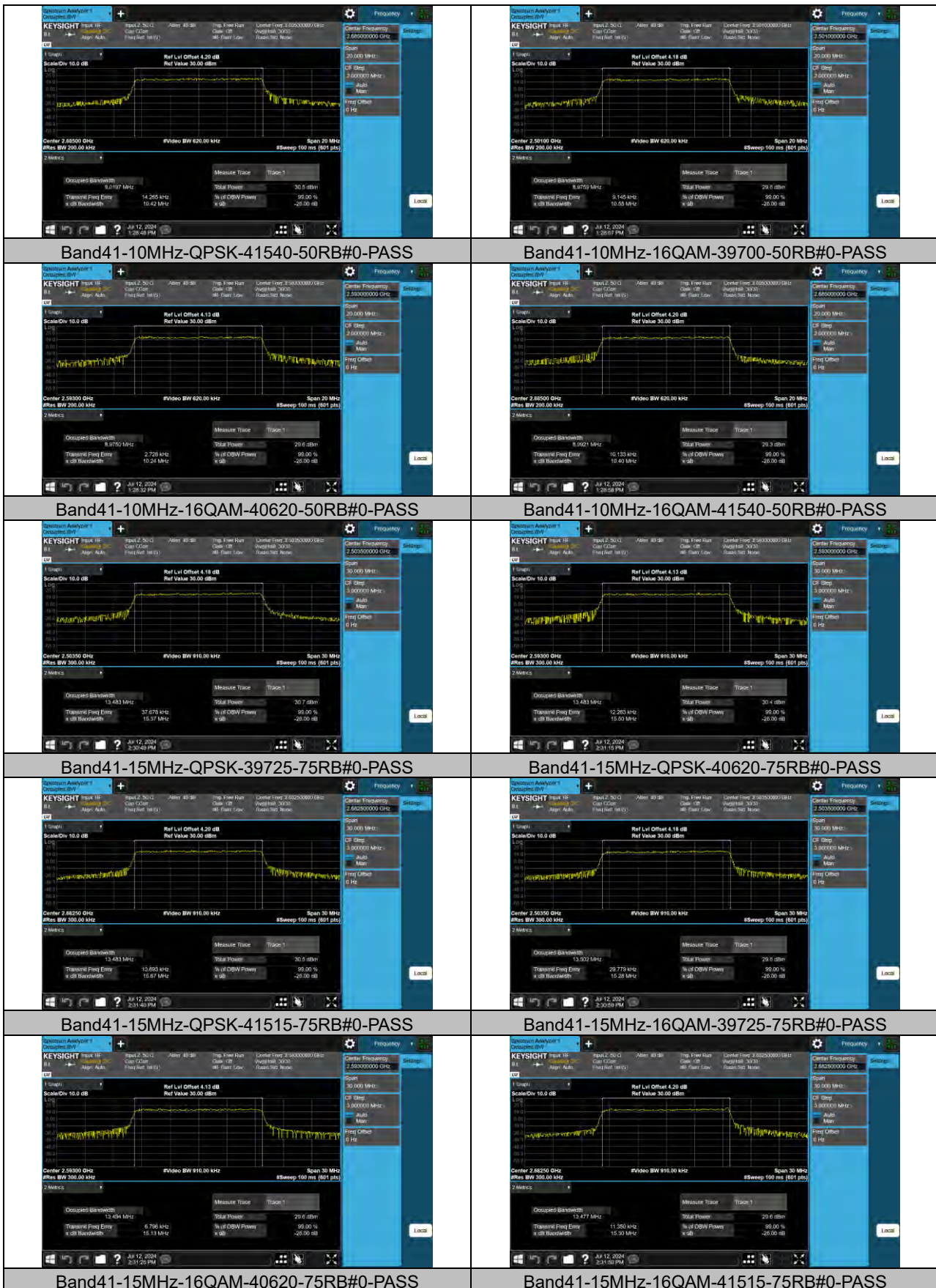


26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.5270	5.284	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5320	5.231	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5115	5.271	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5090	5.319	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4949	5.006	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5028	4.975	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9975	10.23	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0023	10.04	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0197	10.42	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9759	10.55	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9750	10.24	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9921	10.40	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.483	15.37	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.483	15.50	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.483	15.67	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.502	15.28	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.494	15.13	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.477	15.30	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.004	20.57	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.003	19.91	PASS
Band41	20MHz	QPSK	41490	100RB#0	18.008	20.55	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.954	19.53	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.947	20.06	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.936	19.97	PASS

TEST GRAPHS

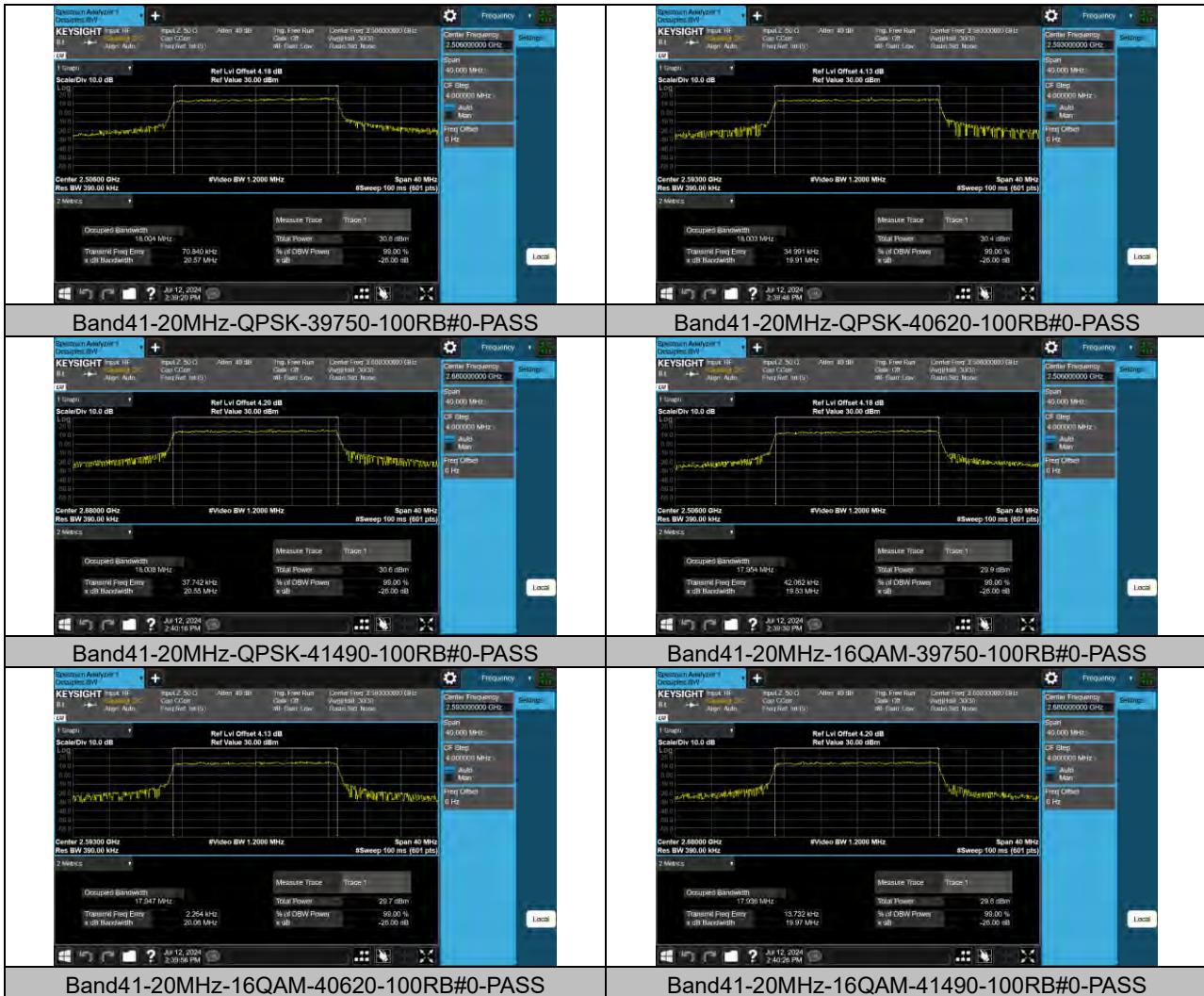






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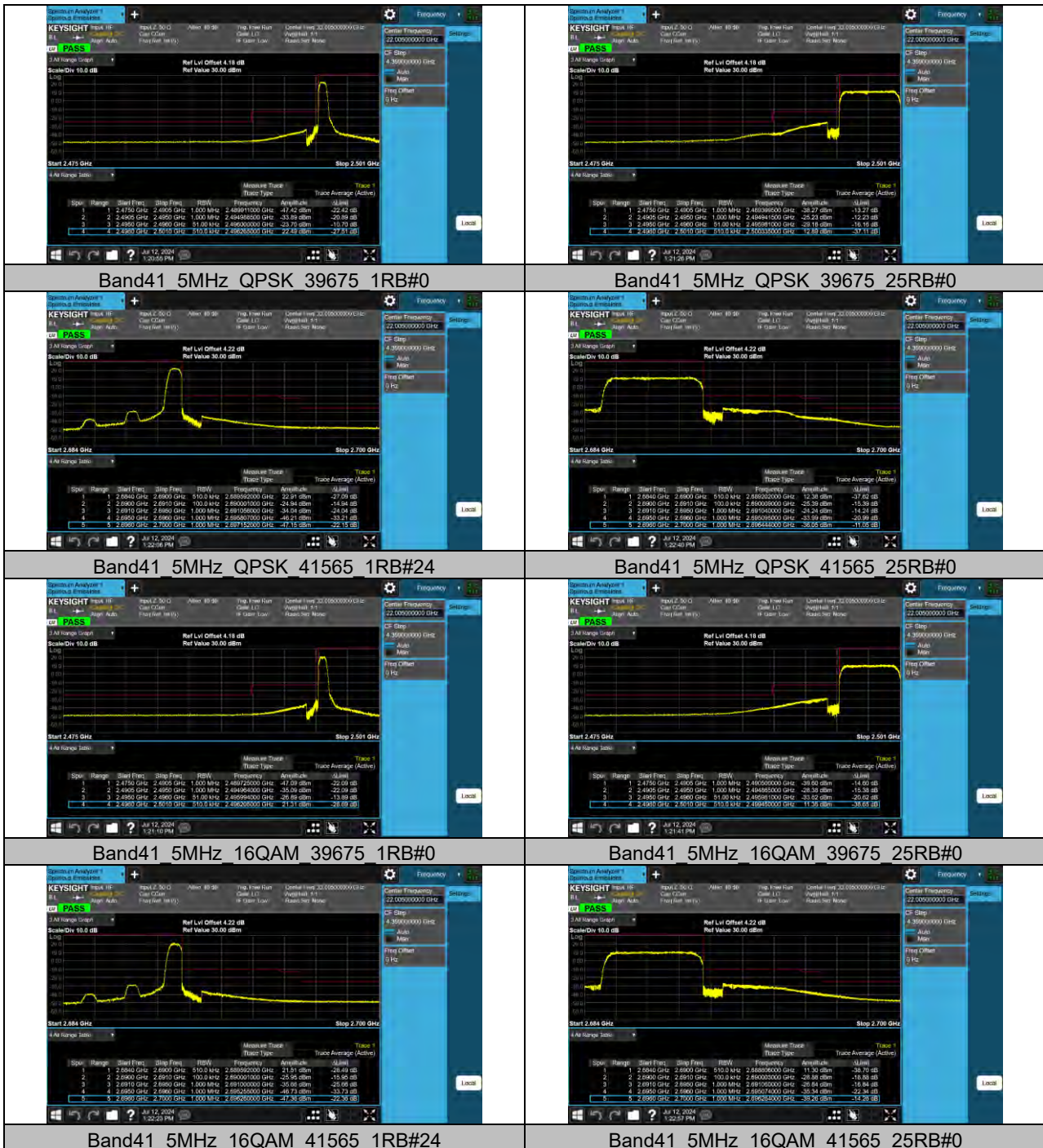
Reference No.: W7L-P24050018RF07



BAND EDGE TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-23.70	PASS
Band41	5MHz	QPSK	39675	25RB#0	-25.23	PASS
Band41	5MHz	QPSK	41565	1RB#24	-24.94	PASS
Band41	5MHz	QPSK	41565	25RB#0	-36.05	PASS
Band41	5MHz	16QAM	39675	1RB#0	-26.89	PASS
Band41	5MHz	16QAM	39675	25RB#0	-39.60	PASS
Band41	5MHz	16QAM	41565	1RB#24	-25.95	PASS
Band41	5MHz	16QAM	41565	25RB#0	-39.26	PASS
Band41	10MHz	QPSK	39700	1RB#0	-29.30	PASS
Band41	10MHz	QPSK	39700	50RB#0	-31.39	PASS
Band41	10MHz	QPSK	41540	1RB#49	-31.23	PASS
Band41	10MHz	QPSK	41540	50RB#0	-38.46	PASS
Band41	10MHz	16QAM	39700	1RB#0	-30.66	PASS
Band41	10MHz	16QAM	39700	50RB#0	-33.86	PASS
Band41	10MHz	16QAM	41540	1RB#49	-47.28	PASS
Band41	10MHz	16QAM	41540	50RB#0	-37.65	PASS
Band41	15MHz	QPSK	39725	1RB#0	-47.47	PASS
Band41	15MHz	QPSK	39725	75RB#0	-30.26	PASS
Band41	15MHz	QPSK	41515	1RB#74	-31.36	PASS
Band41	15MHz	QPSK	41515	75RB#0	-36.76	PASS
Band41	15MHz	16QAM	39725	1RB#0	-47.24	PASS
Band41	15MHz	16QAM	39725	75RB#0	-32.84	PASS
Band41	15MHz	16QAM	41515	1RB#74	-48.09	PASS
Band41	15MHz	16QAM	41515	75RB#0	-37.64	PASS
Band41	20MHz	QPSK	39750	1RB#0	-46.89	PASS
Band41	20MHz	QPSK	39750	100RB#0	-31.31	PASS
Band41	20MHz	QPSK	41490	1RB#99	-48.05	PASS
Band41	20MHz	QPSK	41490	100RB#0	-39.79	PASS
Band41	20MHz	16QAM	39750	1RB#0	-47.45	PASS
Band41	20MHz	16QAM	39750	100RB#0	-32.65	PASS
Band41	20MHz	16QAM	41490	1RB#99	-47.80	PASS
Band41	20MHz	16QAM	41490	100RB#0	-40.50	PASS

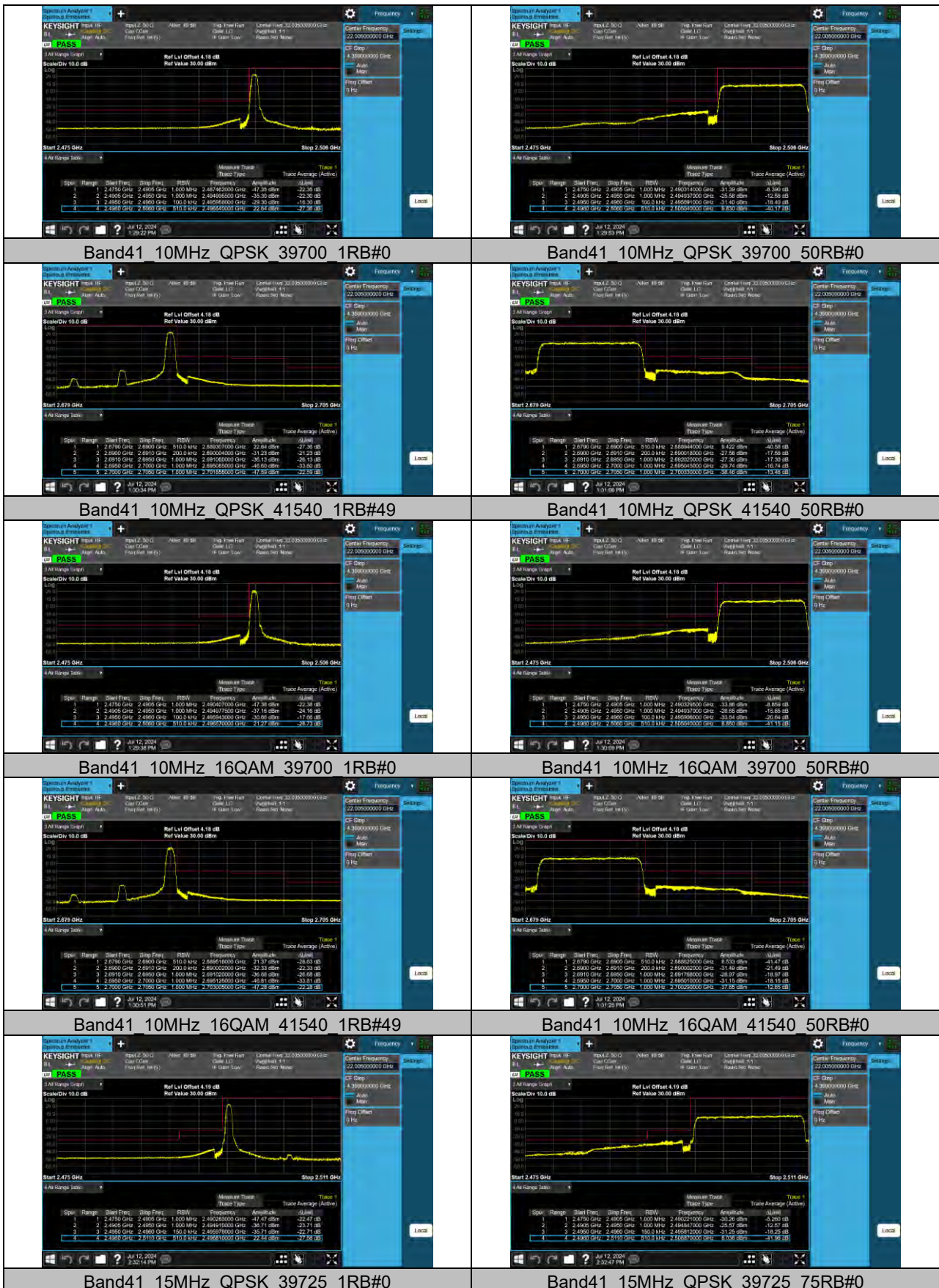
TEST GRAPHS





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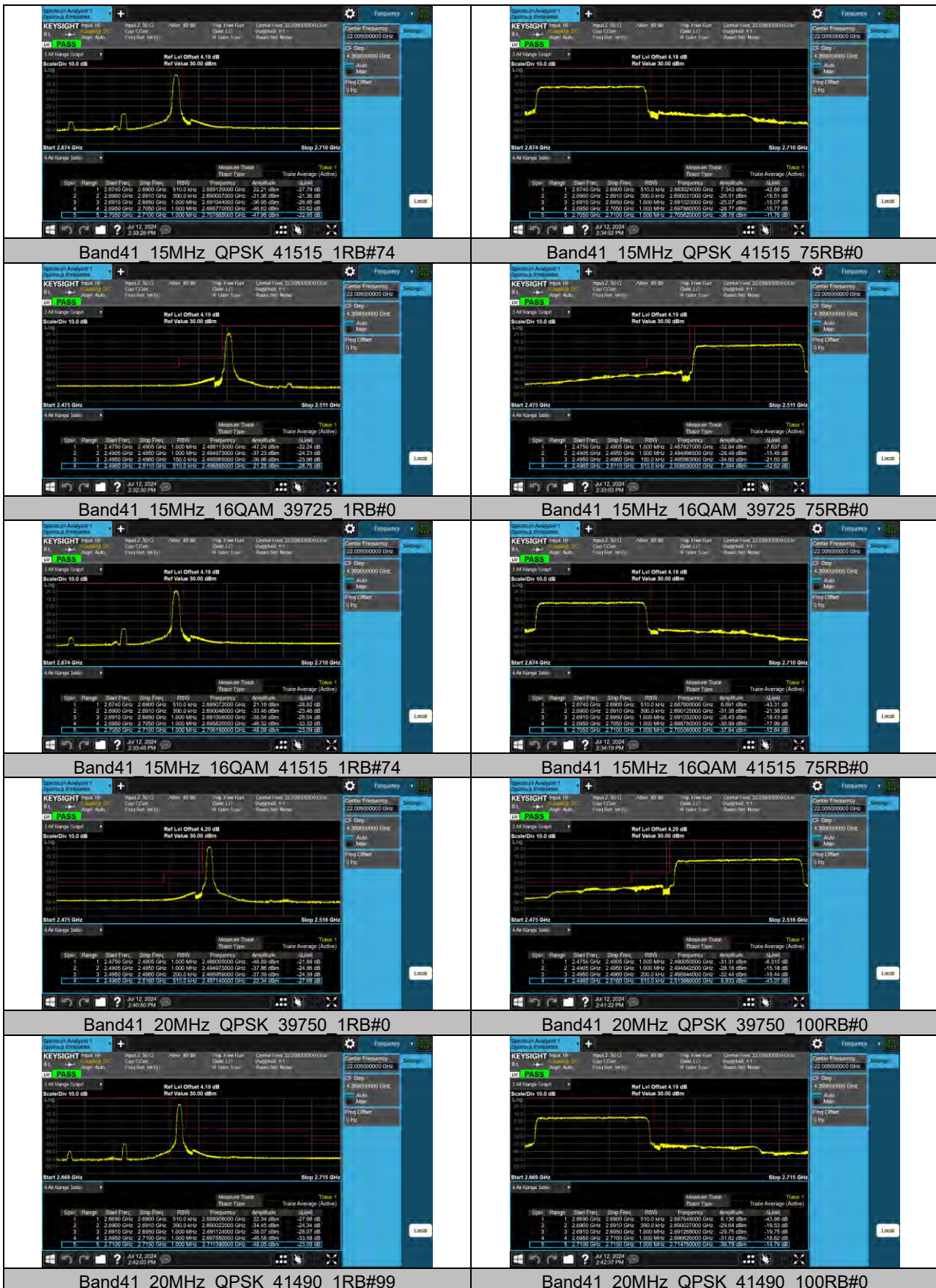
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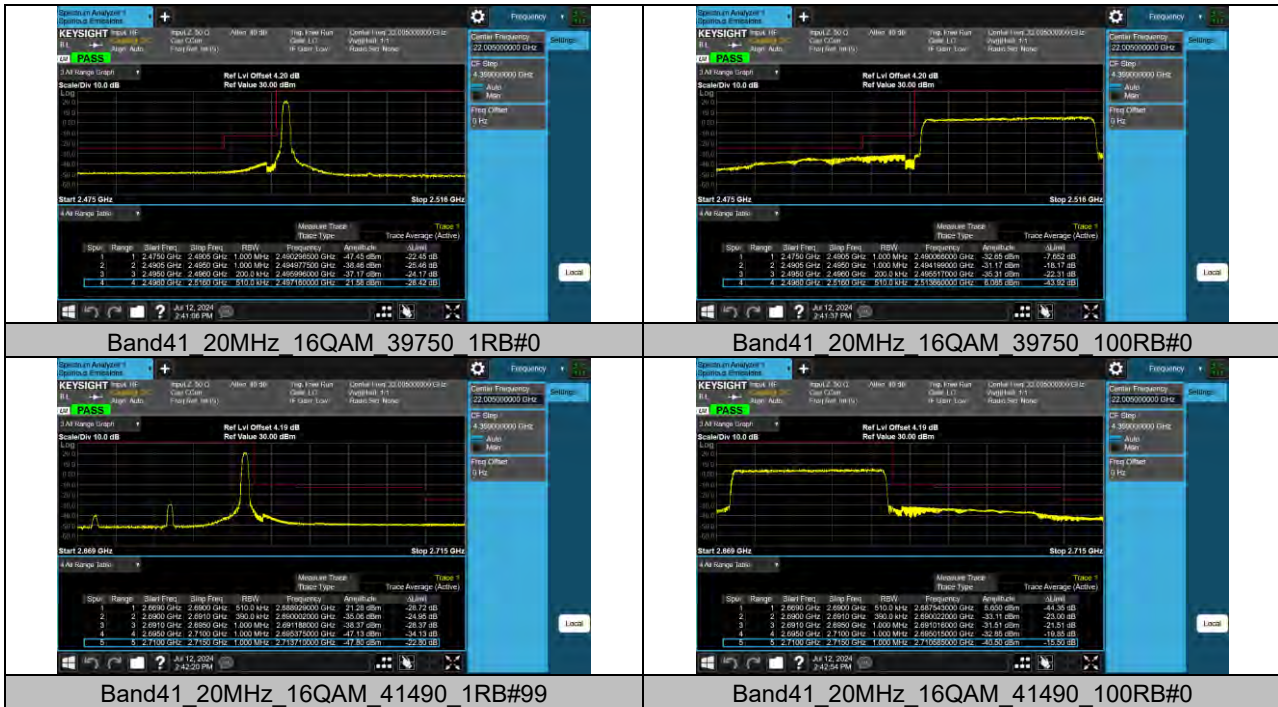
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Reference No.: W7L-P24050018RF07





Reference No.: W7L-P24050018RF07

CONDUCTED SPURIOUS EMISSION TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	30~1000	-57.67	PASS
Band41	5MHz	QPSK	39675	1RB#0	1000~10000	-47.22	PASS
Band41	5MHz	QPSK	39675	1RB#0	10000~20000	-55.10	PASS
Band41	5MHz	QPSK	39675	1RB#0	20000~27000	-52.71	PASS
Band41	5MHz	QPSK	40620	1RB#0	30~1000	-54.50	PASS
Band41	5MHz	QPSK	40620	1RB#0	1000~10000	-47.34	PASS
Band41	5MHz	QPSK	40620	1RB#0	10000~20000	-55.06	PASS
Band41	5MHz	QPSK	40620	1RB#0	20000~27000	-52.79	PASS
Band41	5MHz	QPSK	41565	1RB#0	30~1000	-51.69	PASS
Band41	5MHz	QPSK	41565	1RB#0	1000~10000	-47.67	PASS
Band41	5MHz	QPSK	41565	1RB#0	10000~20000	-55.21	PASS
Band41	5MHz	QPSK	41565	1RB#0	20000~27000	-52.93	PASS
Band41	10MHz	QPSK	39700	1RB#0	30~1000	-57.42	PASS
Band41	10MHz	QPSK	39700	1RB#0	1000~10000	-47.39	PASS
Band41	10MHz	QPSK	39700	1RB#0	10000~20000	-55.15	PASS
Band41	10MHz	QPSK	39700	1RB#0	20000~27000	-52.95	PASS
Band41	10MHz	QPSK	40620	1RB#0	30~1000	-57.62	PASS
Band41	10MHz	QPSK	40620	1RB#0	1000~10000	-47.72	PASS
Band41	10MHz	QPSK	40620	1RB#0	10000~20000	-54.85	PASS
Band41	10MHz	QPSK	40620	1RB#0	20000~27000	-53.14	PASS
Band41	10MHz	QPSK	41540	1RB#0	30~1000	-51.45	PASS
Band41	10MHz	QPSK	41540	1RB#0	1000~10000	-47.63	PASS
Band41	10MHz	QPSK	41540	1RB#0	10000~20000	-54.58	PASS
Band41	10MHz	QPSK	41540	1RB#0	20000~27000	-53.23	PASS
Band41	15MHz	QPSK	39725	1RB#0	30~1000	-57.69	PASS
Band41	15MHz	QPSK	39725	1RB#0	1000~10000	-47.83	PASS
Band41	15MHz	QPSK	39725	1RB#0	10000~20000	-54.80	PASS
Band41	15MHz	QPSK	39725	1RB#0	20000~27000	-53.01	PASS
Band41	15MHz	QPSK	40620	1RB#0	30~1000	-57.64	PASS
Band41	15MHz	QPSK	40620	1RB#0	1000~10000	-47.49	PASS
Band41	15MHz	QPSK	40620	1RB#0	10000~20000	-54.89	PASS
Band41	15MHz	QPSK	40620	1RB#0	20000~27000	-52.76	PASS
Band41	15MHz	QPSK	41515	1RB#0	30~1000	-52.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	1000~10000	-47.51	PASS
Band41	15MHz	QPSK	41515	1RB#0	10000~20000	-55.07	PASS
Band41	15MHz	QPSK	41515	1RB#0	20000~27000	-52.86	PASS
Band41	20MHz	QPSK	39750	1RB#0	30~1000	-57.67	PASS
Band41	20MHz	QPSK	39750	1RB#0	1000~10000	-47.41	PASS
Band41	20MHz	QPSK	39750	1RB#0	10000~20000	-55.12	PASS
Band41	20MHz	QPSK	39750	1RB#0	20000~27000	-52.84	PASS
Band41	20MHz	QPSK	40620	1RB#0	30~1000	-57.52	PASS
Band41	20MHz	QPSK	40620	1RB#0	1000~10000	-47.75	PASS
Band41	20MHz	QPSK	40620	1RB#0	10000~20000	-54.99	PASS

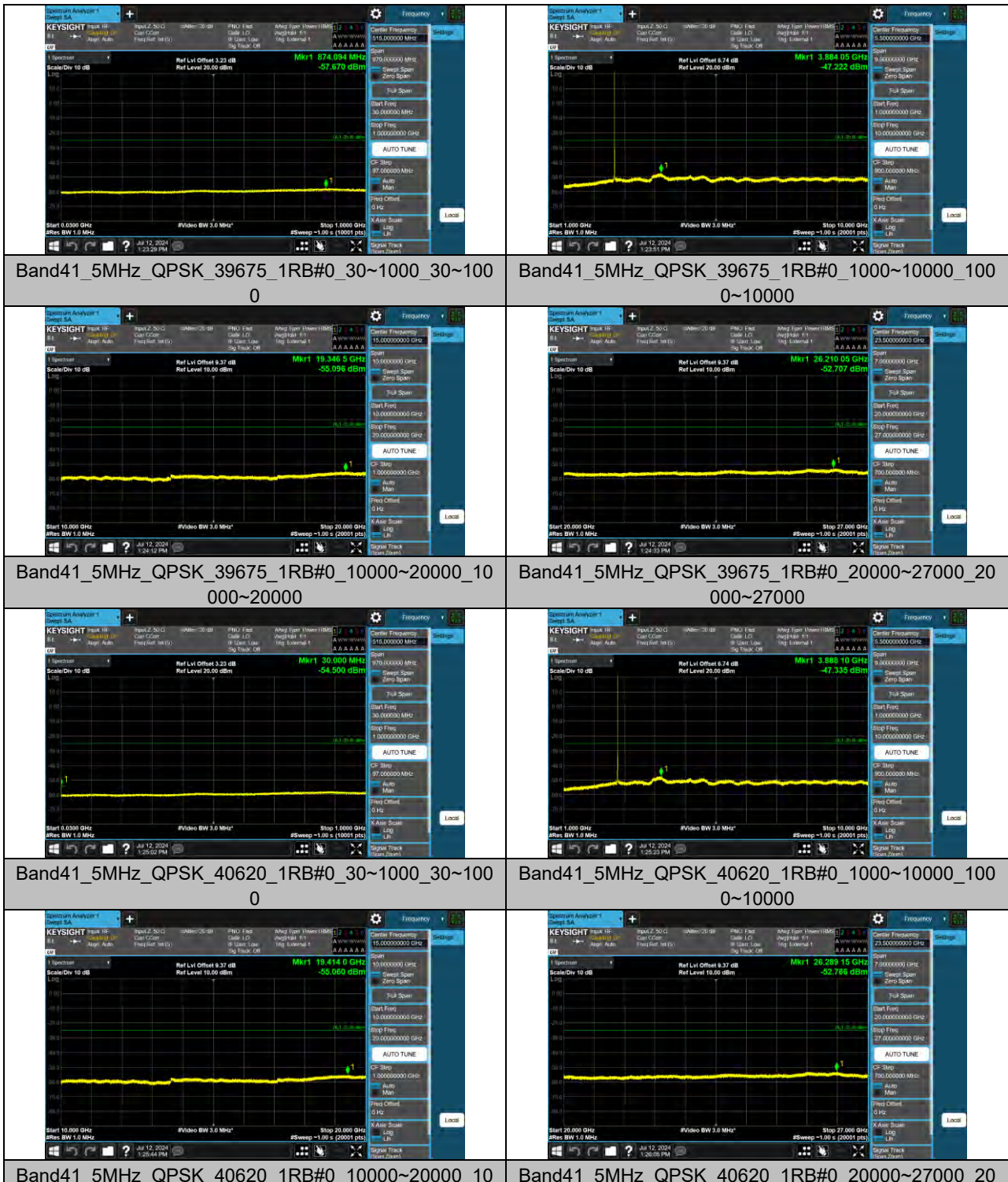


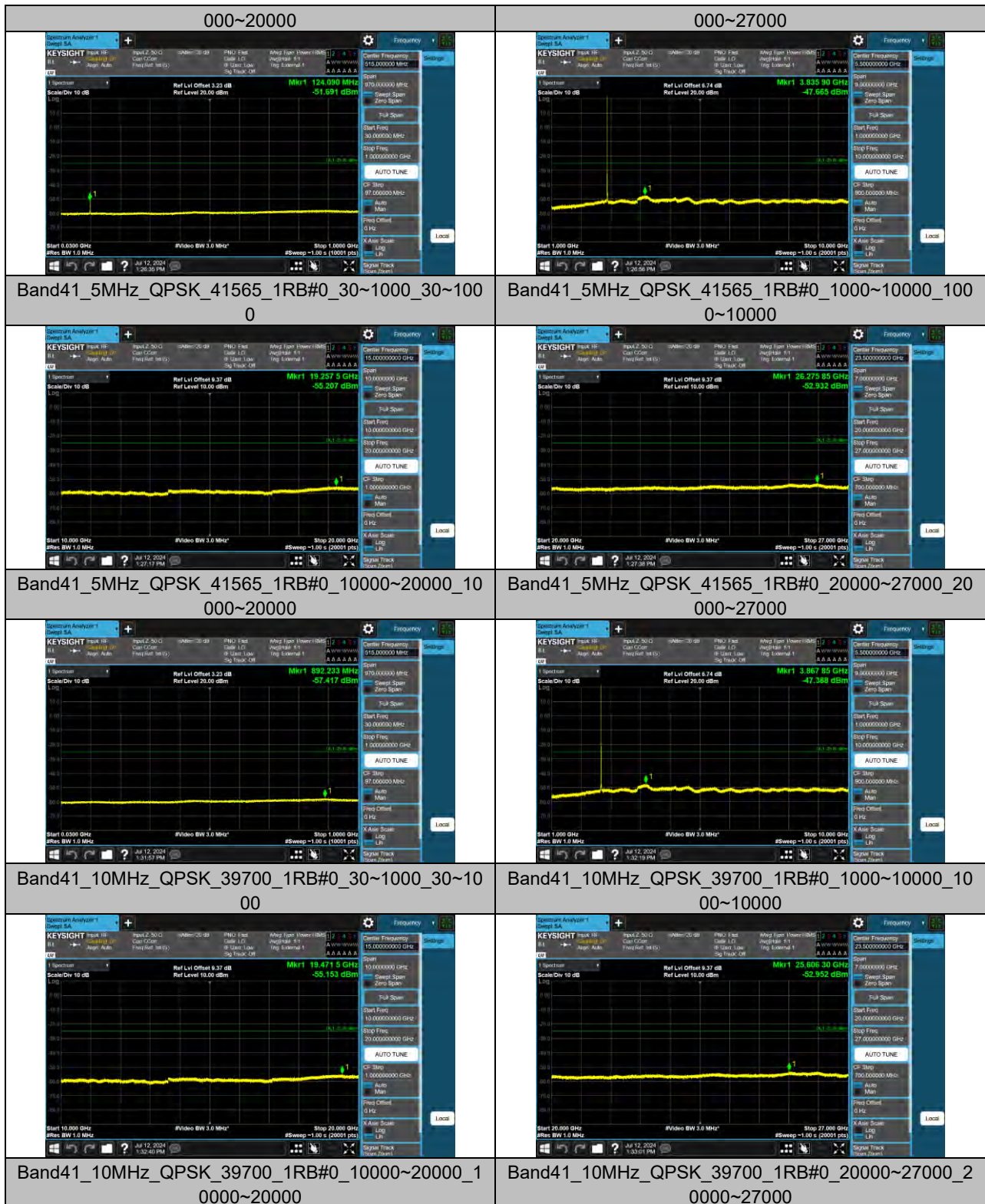
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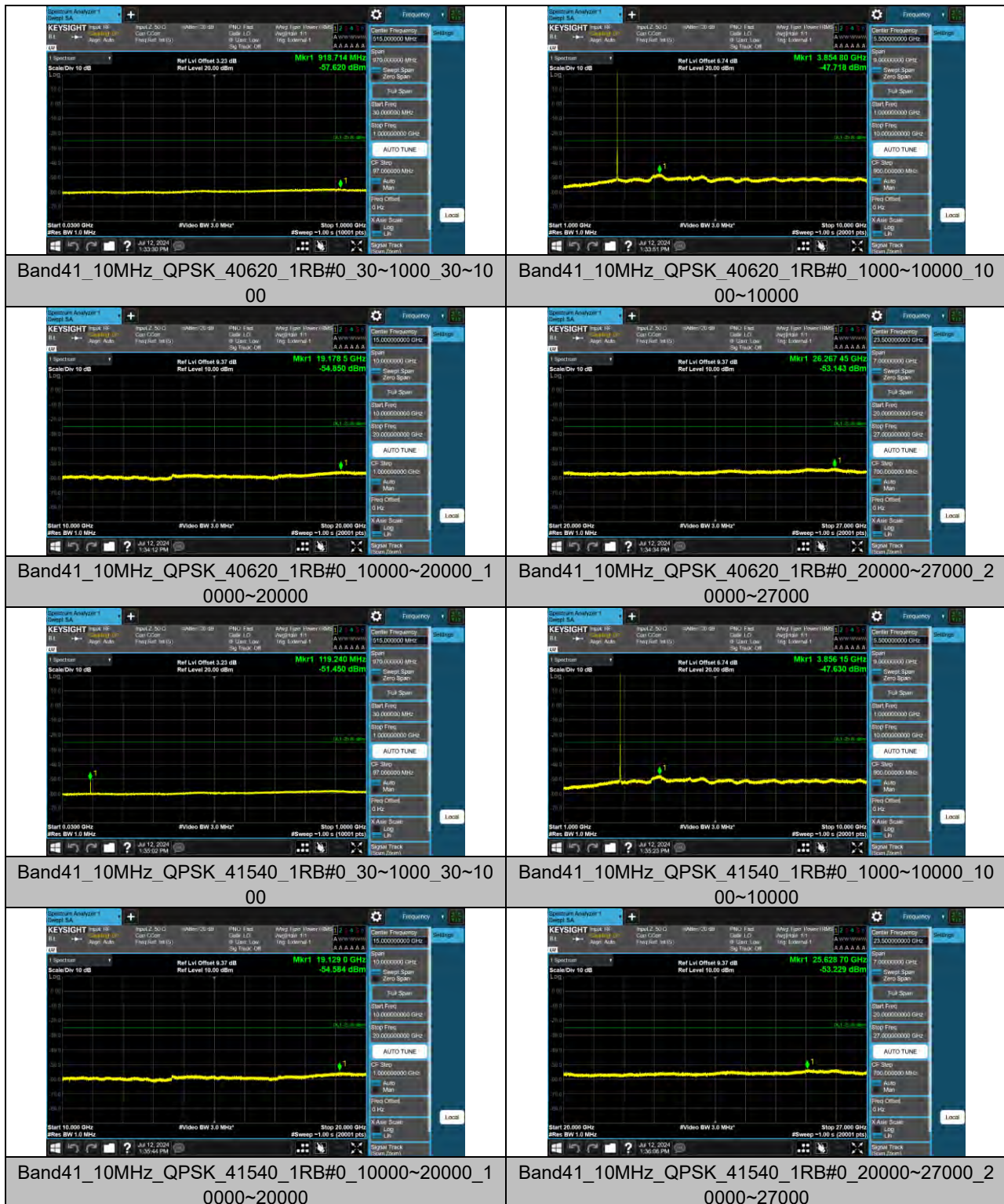
Reference No.: W7L-P24050018RF07

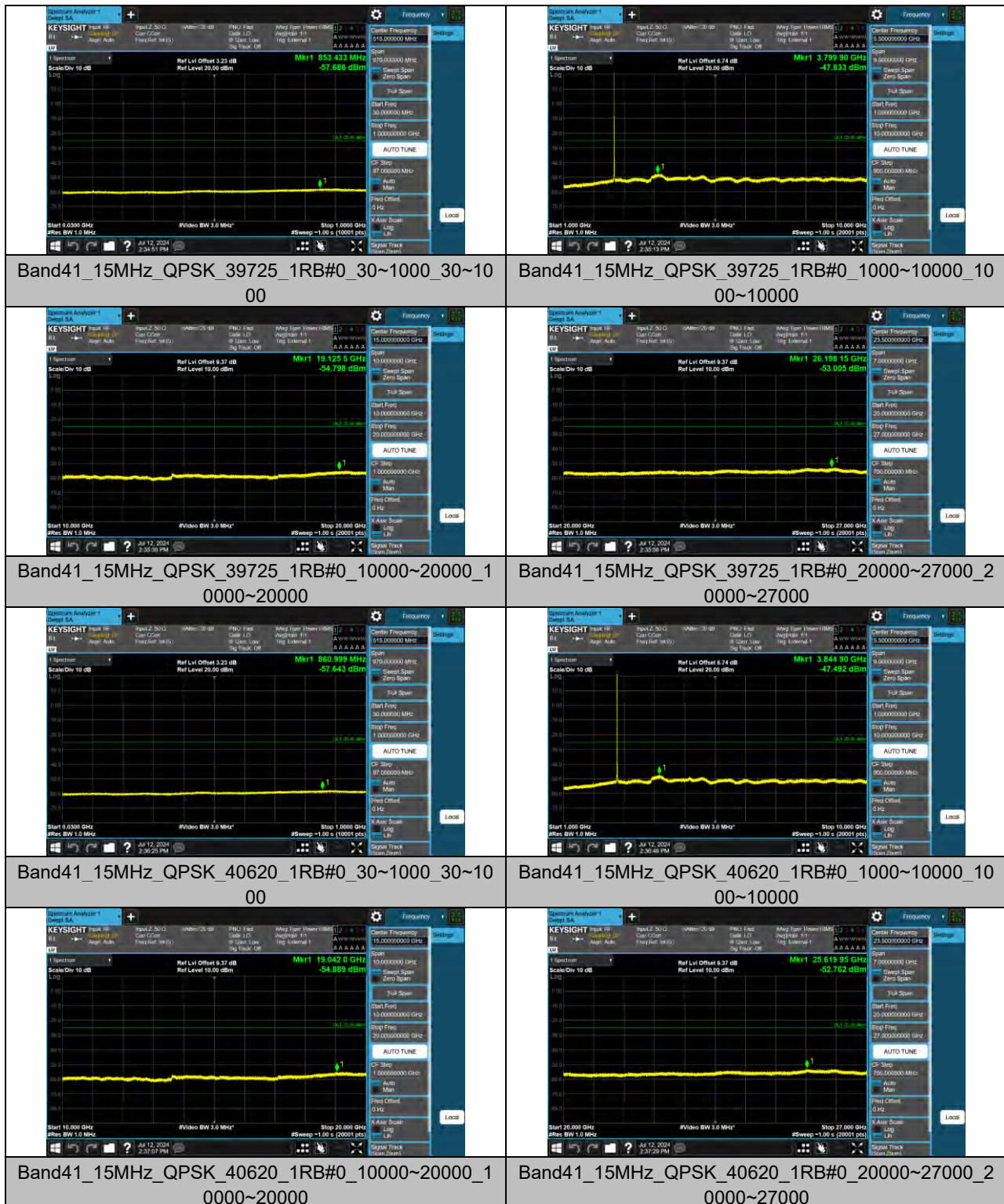
Band41	20MHz	QPSK	40620	1RB#0	20000~27000	-52.96	PASS
Band41	20MHz	QPSK	41490	1RB#0	30~1000	-51.51	PASS
Band41	20MHz	QPSK	41490	1RB#0	1000~10000	-47.22	PASS
Band41	20MHz	QPSK	41490	1RB#0	10000~20000	-55.10	PASS
Band41	20MHz	QPSK	41490	1RB#0	20000~27000	-52.90	PASS

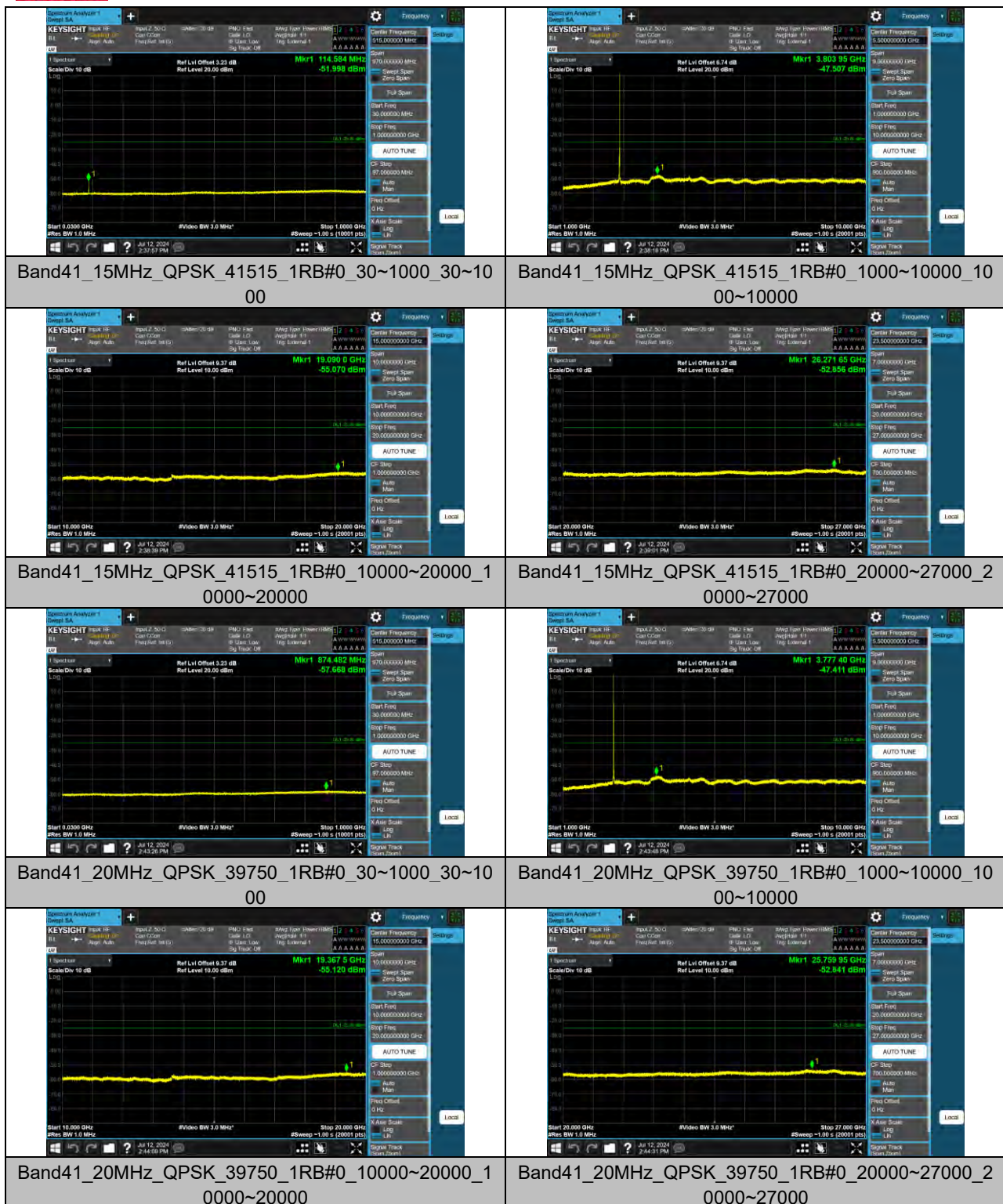
TEST GRAPHS

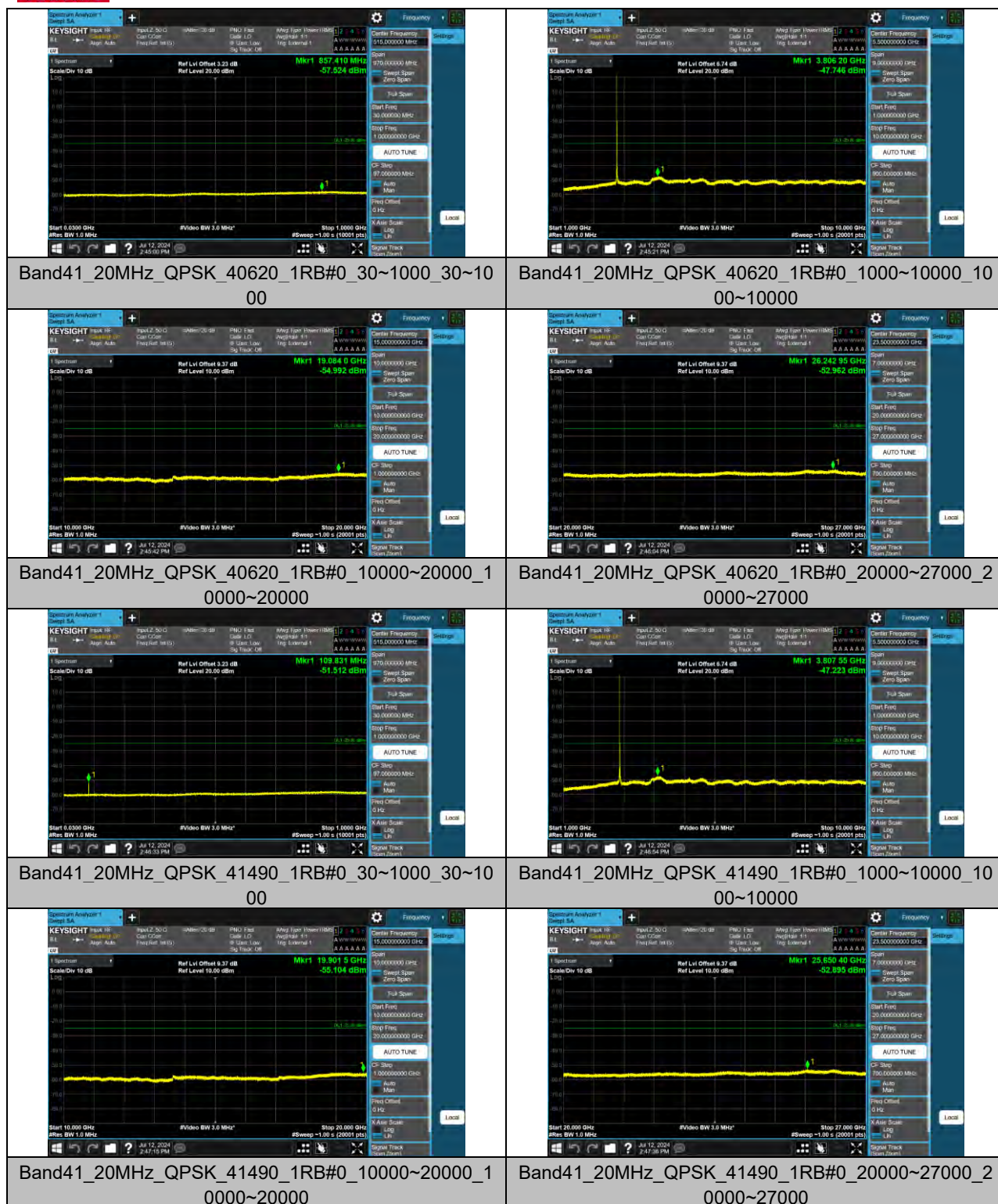














Reference No.: W7L-P24050018RF07

FREQUENCY STABILITY TEST RESULT

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band4 1	10MHz	QPSK	39700	50RB #0	VN	NT	-1022.51	-0.408840	2496.54155	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	VL	NT	1043.58	0.417264	2496.5416	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	VH	NT	-1120.69	-0.448096	2496.5416	---	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	VN	NT	2710.00	1.009311	---	2689.47146	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	VL	NT	2860.00	1.065177	---	2689.47171	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	VH	NT	2790.00	1.039106	---	2689.47149	2496-2690	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band4 1	10MHz	QPSK	39700	50RB #0	NV	-30	-948.04	-0.379065	2496.54155	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	-20	877.66	0.350923	2496.54174	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	-10	-1029.67	-0.411704	2496.54156	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	0	-741.95	-0.296661	2496.54174	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	10	583.49	0.233302	2496.54123	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	20	-561.47	-0.224497	2496.54105	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	30	578.21	0.231192	2496.54181	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	40	523.77	0.209425	2496.54157	---	2496-2690	PASS
Band4 1	10MHz	QPSK	39700	50RB #0	NV	50	527.60	0.210957	2496.54147	---	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	NV	-30	3140.00	1.169460	---	2689.47194	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	NV	-20	2830.00	1.054004	---	2689.47148	2496-2690	PASS
Band4 1	10MHz	QPSK	41540	50RB #0	NV	-10	2790.00	1.039106	---	2689.47139	2496-2690	PASS
Band4	10MHz	QPSK	41540	50RB	NV	0	2710.	1.009	---	2689.	2496-	PASS



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Reference No.: W7L-P24050018RF07

1	z			#0			00	311		47141	2690	
Band4 1	10MH z	QPSK	41540	50RB #0	NV	10	2690. 00	1.001 862	---	2689. 47139	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	20	2690. 00	1.001 862	---	2689. 47129	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	30	3100. 00	1.154 562	---	2689. 4718	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	40	2810. 00	1.046 555	---	2689. 47141	2496- 2690	PASS
Band4 1	10MH z	QPSK	41540	50RB #0	NV	50	2610. 00	0.972 067	---	2689. 47076	2496- 2690	PASS



Reference No.: W7L-P24050018RF07

LTE BAND 42

PEAK-TO-AVERAGE RATIO(CCDF) TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
42(3450-3550)	5MHz	QPSK	42115	1RB#0	7.70	13	PASS
42(3450-3550)	5MHz	QPSK	42115	25RB#0	9.28	13	PASS
42(3450-3550)	5MHz	QPSK	42590	1RB#0	7.71	13	PASS
42(3450-3550)	5MHz	QPSK	42590	25RB#0	9.54	13	PASS
42(3450-3550)	5MHz	QPSK	43065	1RB#0	7.73	13	PASS
42(3450-3550)	5MHz	QPSK	43065	25RB#0	8.97	13	PASS
42(3450-3550)	5MHz	16QAM	42115	1RB#0	9.66	13	PASS
42(3450-3550)	5MHz	16QAM	42115	25RB#0	10.01	13	PASS
42(3450-3550)	5MHz	16QAM	42590	1RB#0	9.67	13	PASS
42(3450-3550)	5MHz	16QAM	42590	25RB#0	10.24	13	PASS
42(3450-3550)	5MHz	16QAM	43065	1RB#0	9.04	13	PASS
42(3450-3550)	5MHz	16QAM	43065	25RB#0	10.15	13	PASS
42(3450-3550)	10MHz	QPSK	42140	1RB#0	7.68	13	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	9.17	13	PASS
42(3450-3550)	10MHz	QPSK	42590	1RB#0	7.58	13	PASS
42(3450-3550)	10MHz	QPSK	42590	50RB#0	9.26	13	PASS
42(3450-3550)	10MHz	QPSK	43040	1RB#0	7.75	13	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB#0	9.39	13	PASS
42(3450-3550)	10MHz	16QAM	42140	1RB#0	9.50	13	PASS
42(3450-3550)	10MHz	16QAM	42140	50RB#0	10.10	13	PASS
42(3450-3550)	10MHz	16QAM	42590	1RB#0	9.64	13	PASS
42(3450-3550)	10MHz	16QAM	42590	50RB#0	10.10	13	PASS
42(3450-3550)	10MHz	16QAM	43040	1RB#0	9.65	13	PASS
42(3450-3550)	10MHz	16QAM	43040	50RB#0	9.69	13	PASS
42(3450-3550)	15MHz	QPSK	42165	1RB#0	7.56	13	PASS
42(3450-3550)	15MHz	QPSK	42165	75RB#0	9.45	13	PASS
42(3450-3550)	15MHz	QPSK	42590	1RB#0	7.53	13	PASS
42(3450-3550)	15MHz	QPSK	42590	75RB#0	9.37	13	PASS
42(3450-3550)	15MHz	QPSK	43015	1RB#0	7.78	13	PASS
42(3450-3550)	15MHz	QPSK	43015	75RB#0	9.66	13	PASS
42(3450-3550)	15MHz	16QAM	42165	1RB#0	9.59	13	PASS
42(3450-3550)	15MHz	16QAM	42165	75RB#0	10.23	13	PASS
42(3450-3550)	15MHz	16QAM	42590	1RB#0	9.67	13	PASS
42(3450-3550)	15MHz	16QAM	42590	75RB#0	10.22	13	PASS
42(3450-3550)	15MHz	16QAM	43015	1RB#0	9.62	13	PASS
42(3450-3550)	15MHz	16QAM	43015	75RB#0	9.70	13	PASS
42(3450-3550)	20MHz	QPSK	42190	1RB#0	7.47	13	PASS
42(3450-3550)	20MHz	QPSK	42190	100RB#0	8.94	13	PASS
42(3450-3550)	20MHz	QPSK	42590	1RB#0	7.46	13	PASS
42(3450-3550)	20MHz	QPSK	42590	100RB#0	9.11	13	PASS
42(3450-3550)	20MHz	QPSK	42990	1RB#0	7.70	13	PASS



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Reference No.: W7L-P24050018RF07

42(3450-3550)	20MHz	QPSK	42990	100RB#0	9.24	13	PASS
42(3450-3550)	20MHz	16QAM	42190	1RB#0	9.78	13	PASS
42(3450-3550)	20MHz	16QAM	42190	100RB#0	10.15	13	PASS
42(3450-3550)	20MHz	16QAM	42590	1RB#0	9.84	13	PASS
42(3450-3550)	20MHz	16QAM	42590	100RB#0	9.91	13	PASS
42(3450-3550)	20MHz	16QAM	42990	1RB#0	9.83	13	PASS
42(3450-3550)	20MHz	16QAM	42990	100RB#0	10.05	13	PASS