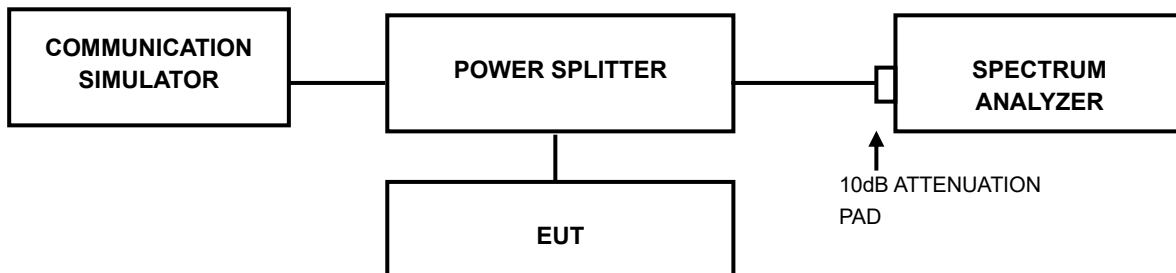


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

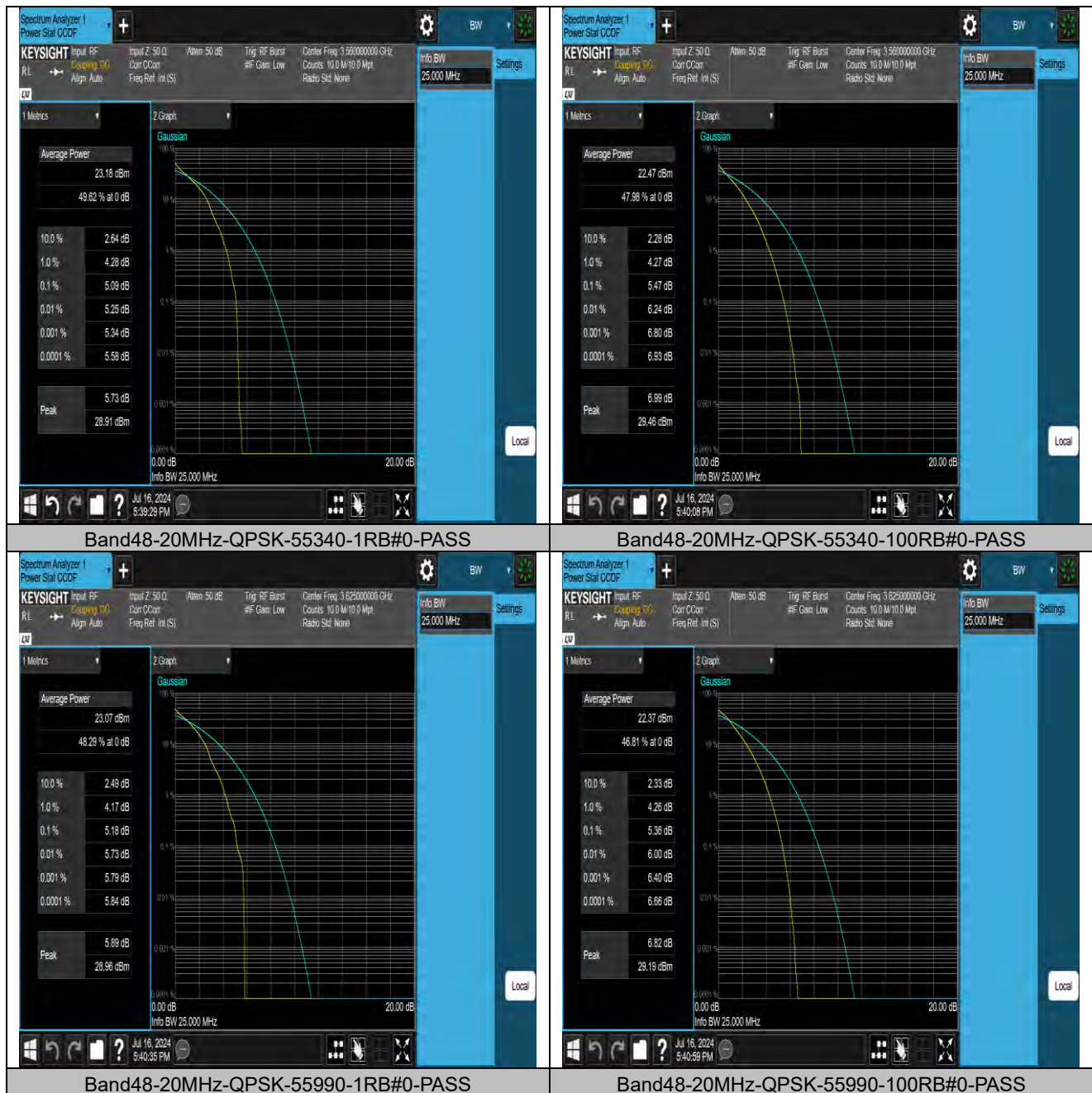
6 APPENDIX

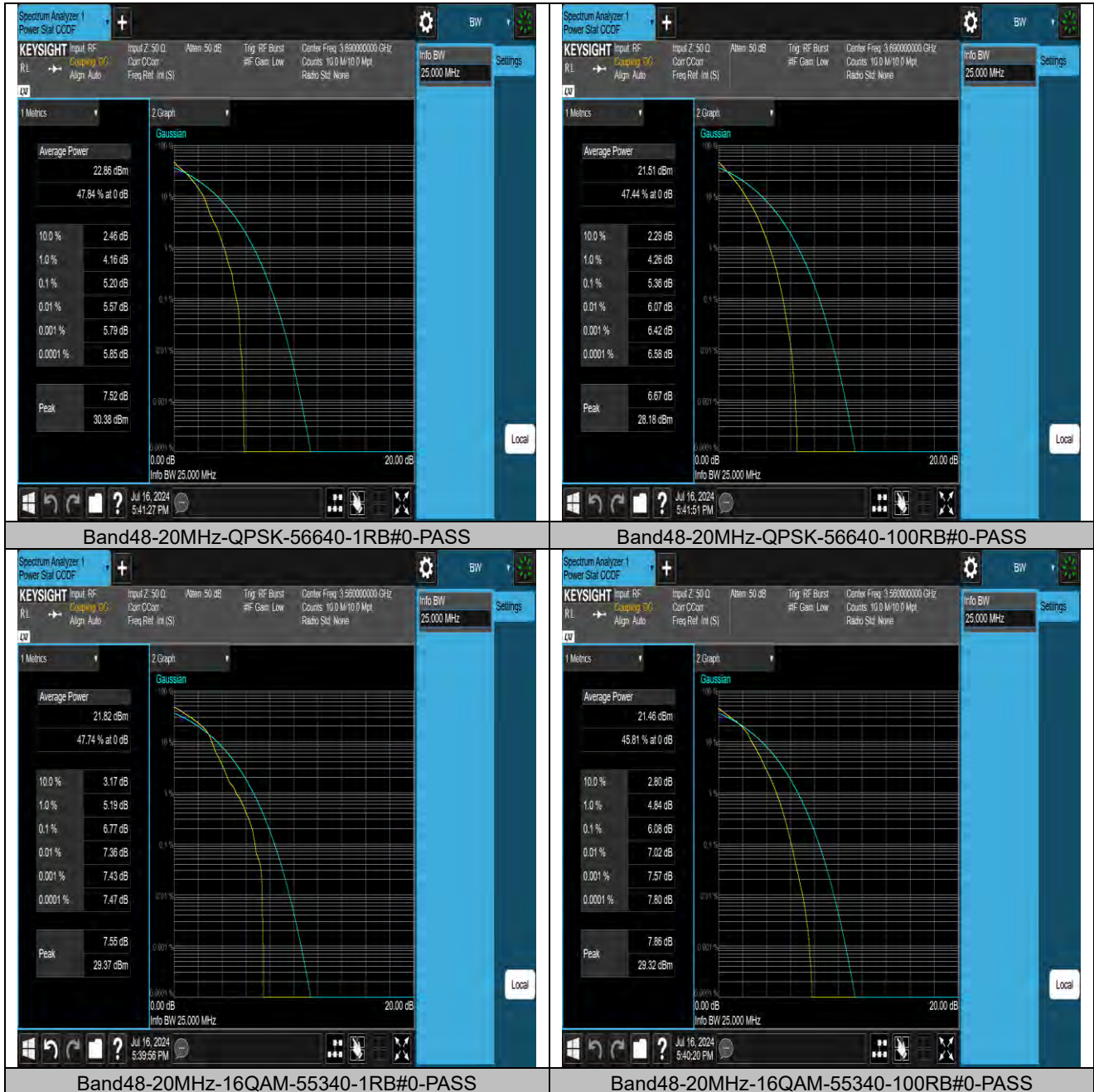
LTE-BAND 48

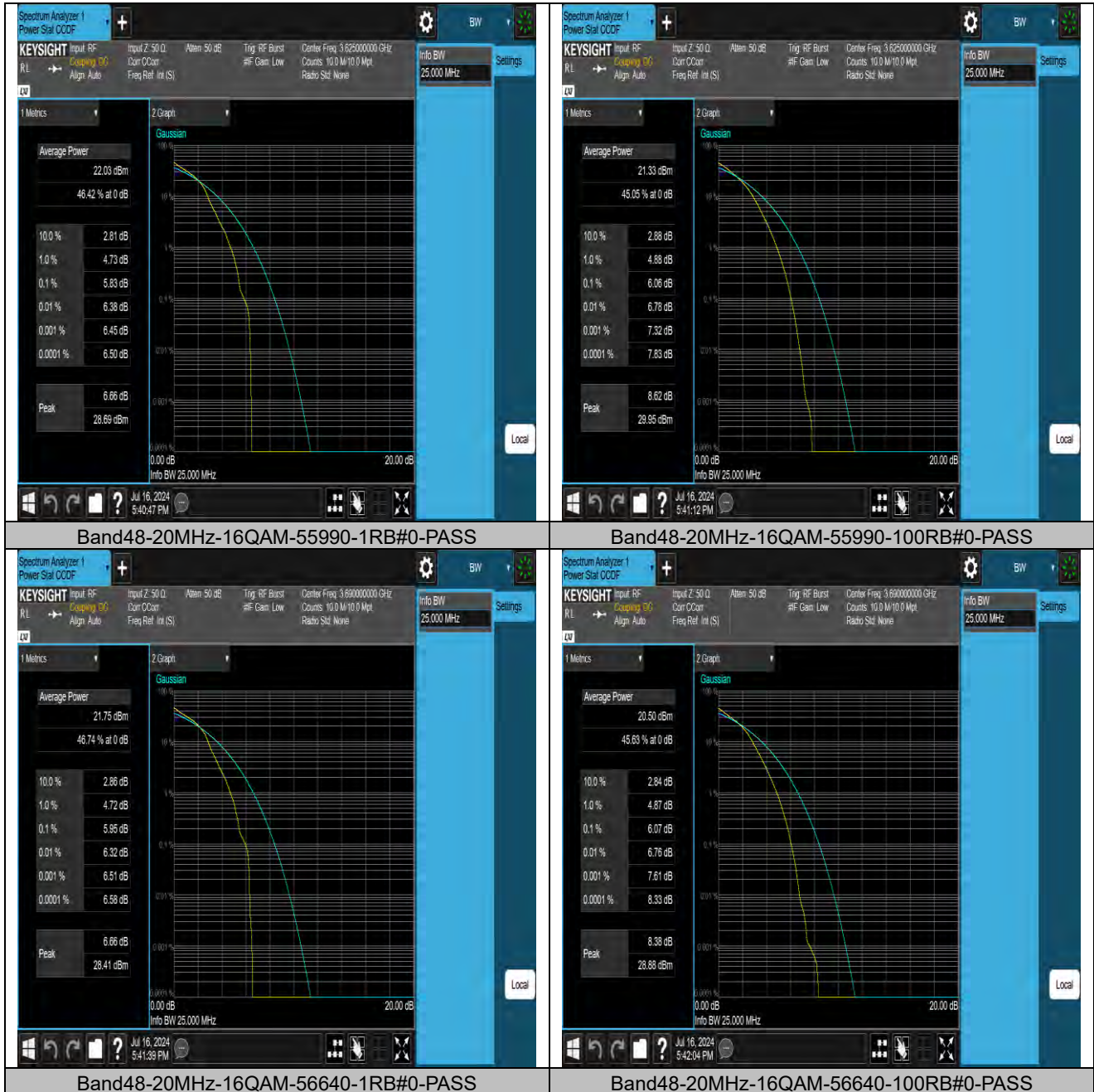
PEAK-TO-AVERAGE RATIO(CCDF) TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	20MHz	QPSK	55340	1RB#0	5.09	13	PASS
Band48	20MHz	QPSK	55340	100RB#0	5.47	13	PASS
Band48	20MHz	QPSK	55990	1RB#0	5.18	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	5.36	13	PASS
Band48	20MHz	QPSK	56640	1RB#0	5.20	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	5.36	13	PASS
Band48	20MHz	16QAM	55340	1RB#0	6.77	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	6.08	13	PASS
Band48	20MHz	16QAM	55990	1RB#0	5.83	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	6.06	13	PASS
Band48	20MHz	16QAM	56640	1RB#0	5.95	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	6.07	13	PASS

TEST GRAPHS



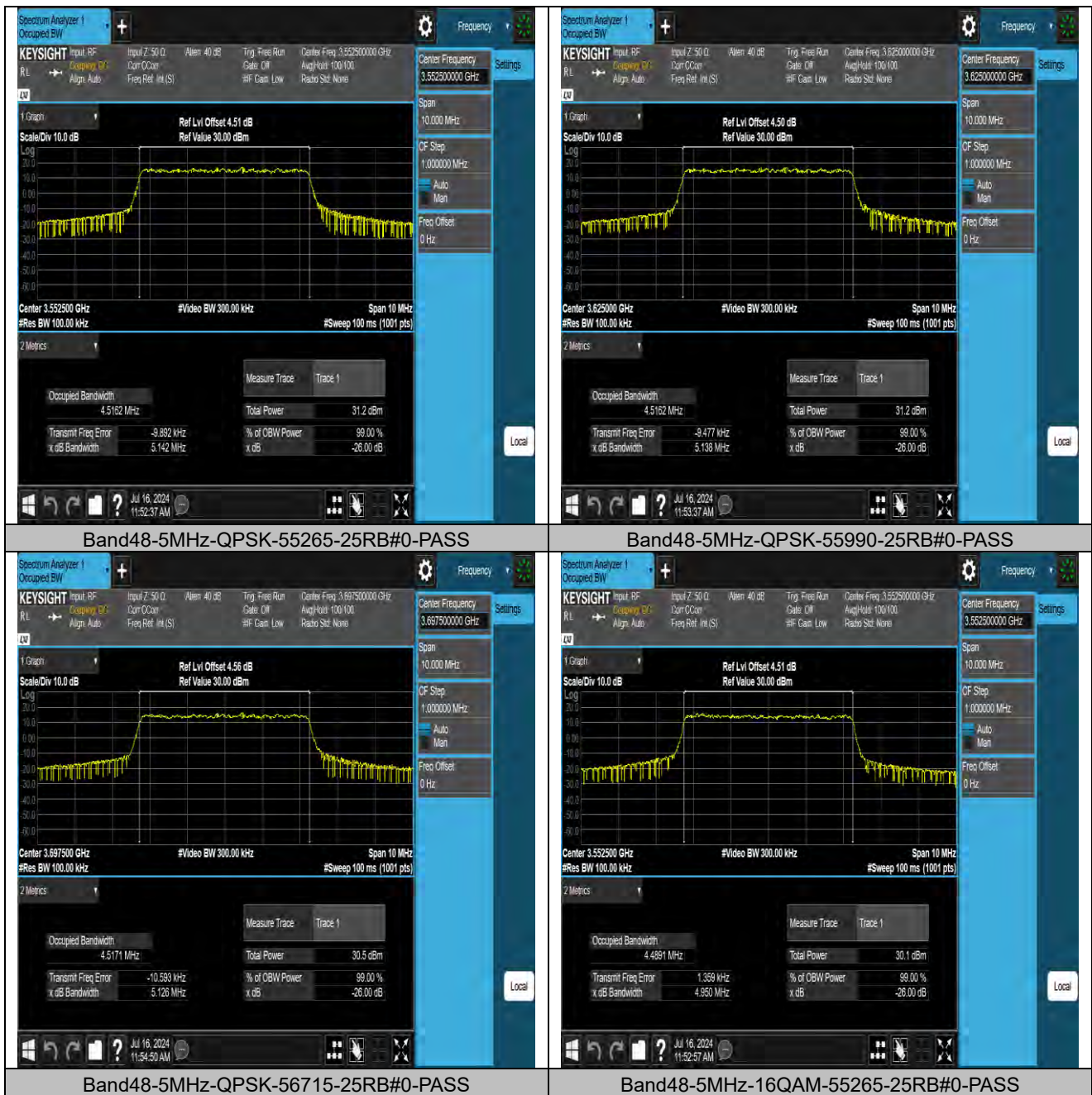




26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55265	25RB#0	4.5162	5.142	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.5162	5.138	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.5171	5.126	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.4891	4.950	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.4910	4.968	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.4885	4.959	PASS
Band48	10MHz	QPSK	55290	50RB#0	8.9916	9.920	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.9879	9.839	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.9719	9.882	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.9504	10.05	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.9651	9.911	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.9616	9.976	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.465	14.94	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.484	14.75	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.476	14.78	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.479	15.35	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.466	15.31	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.463	15.56	PASS
Band48	20MHz	QPSK	55340	100RB#0	18.008	19.90	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.998	19.41	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.975	19.82	PASS
Band48	20MHz	16QAM	55340	100RB#0	17.986	22.56	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.954	22.09	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.979	25.10	PASS

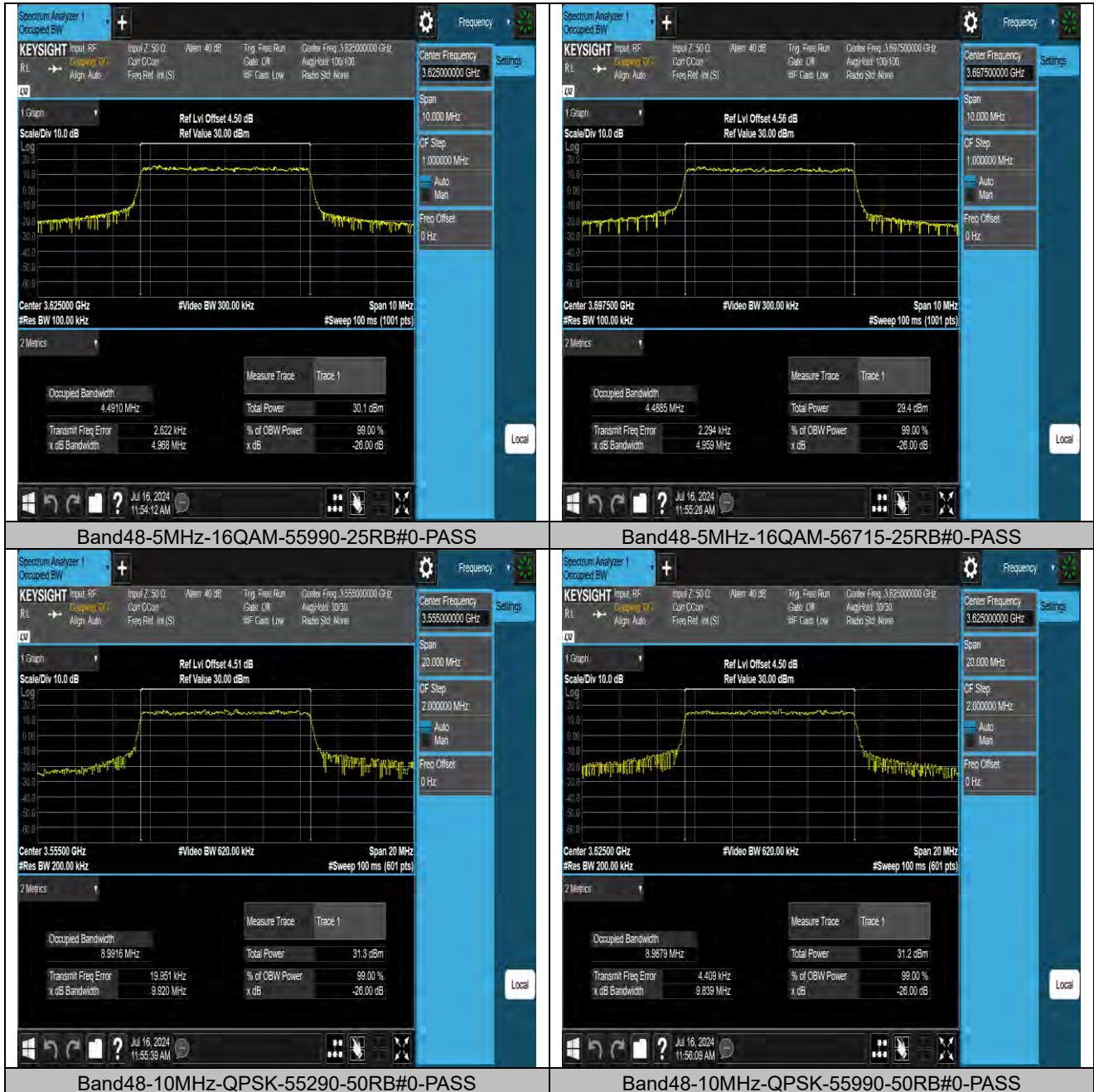
TEST GRAPHS





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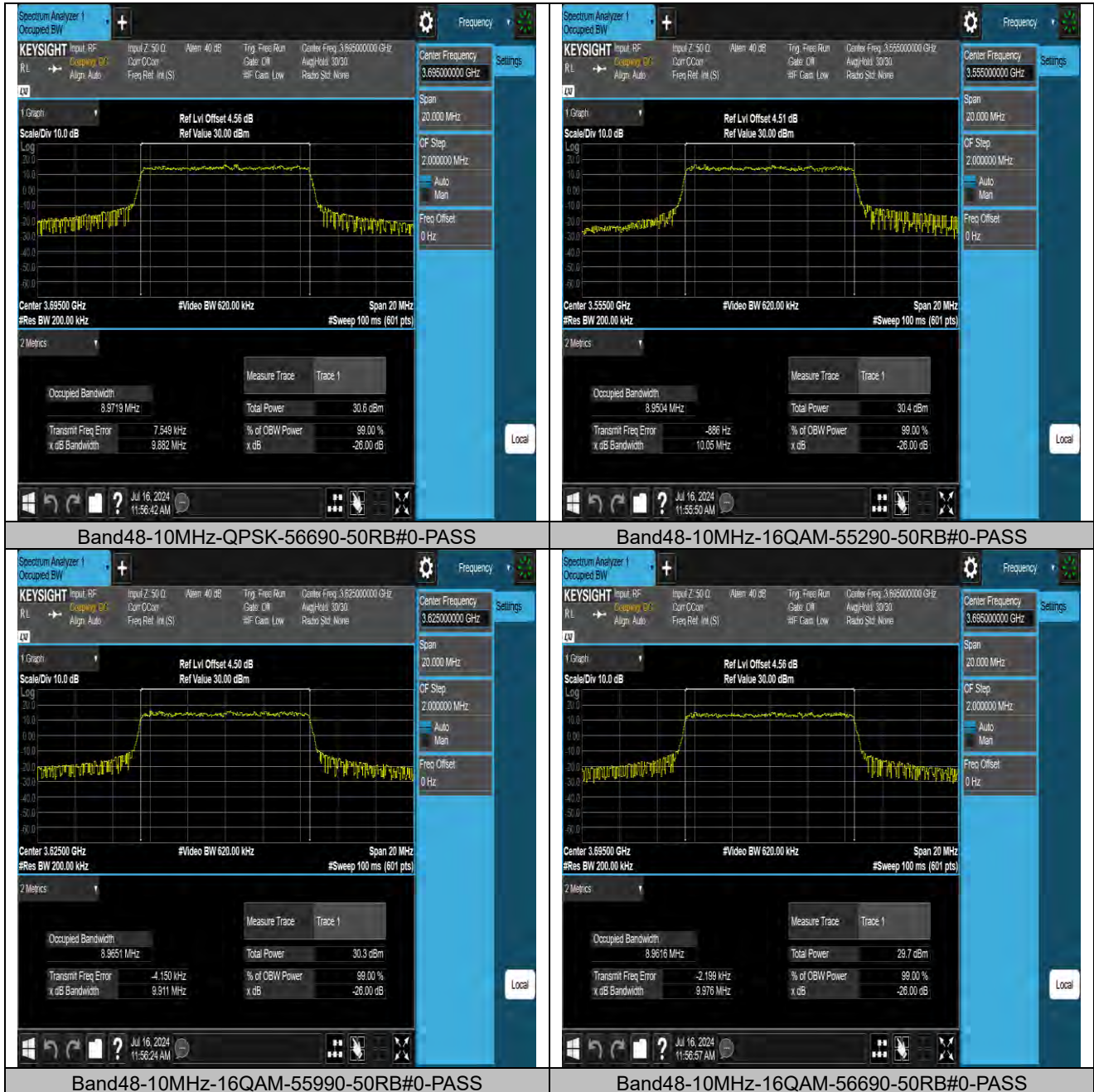
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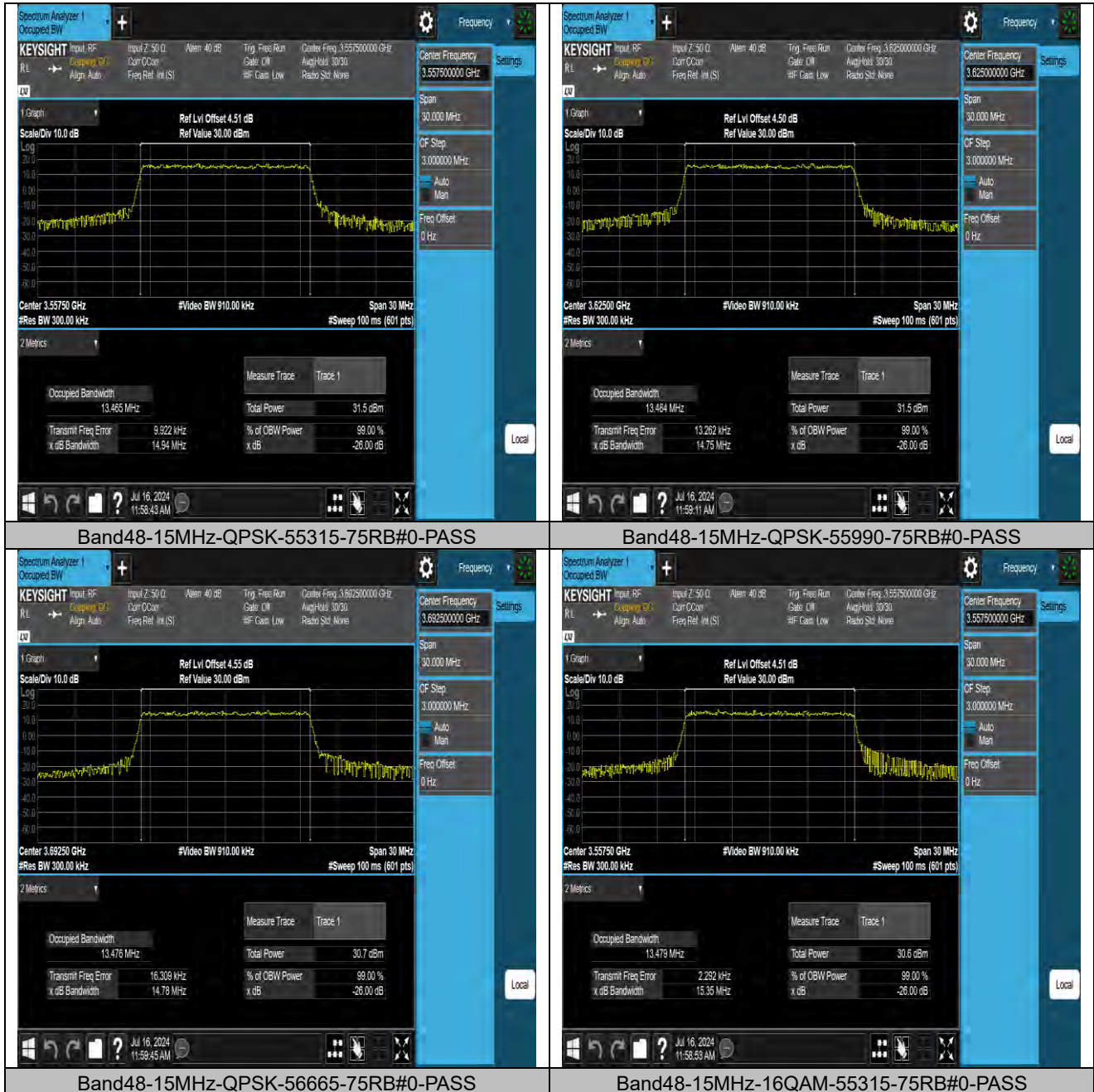
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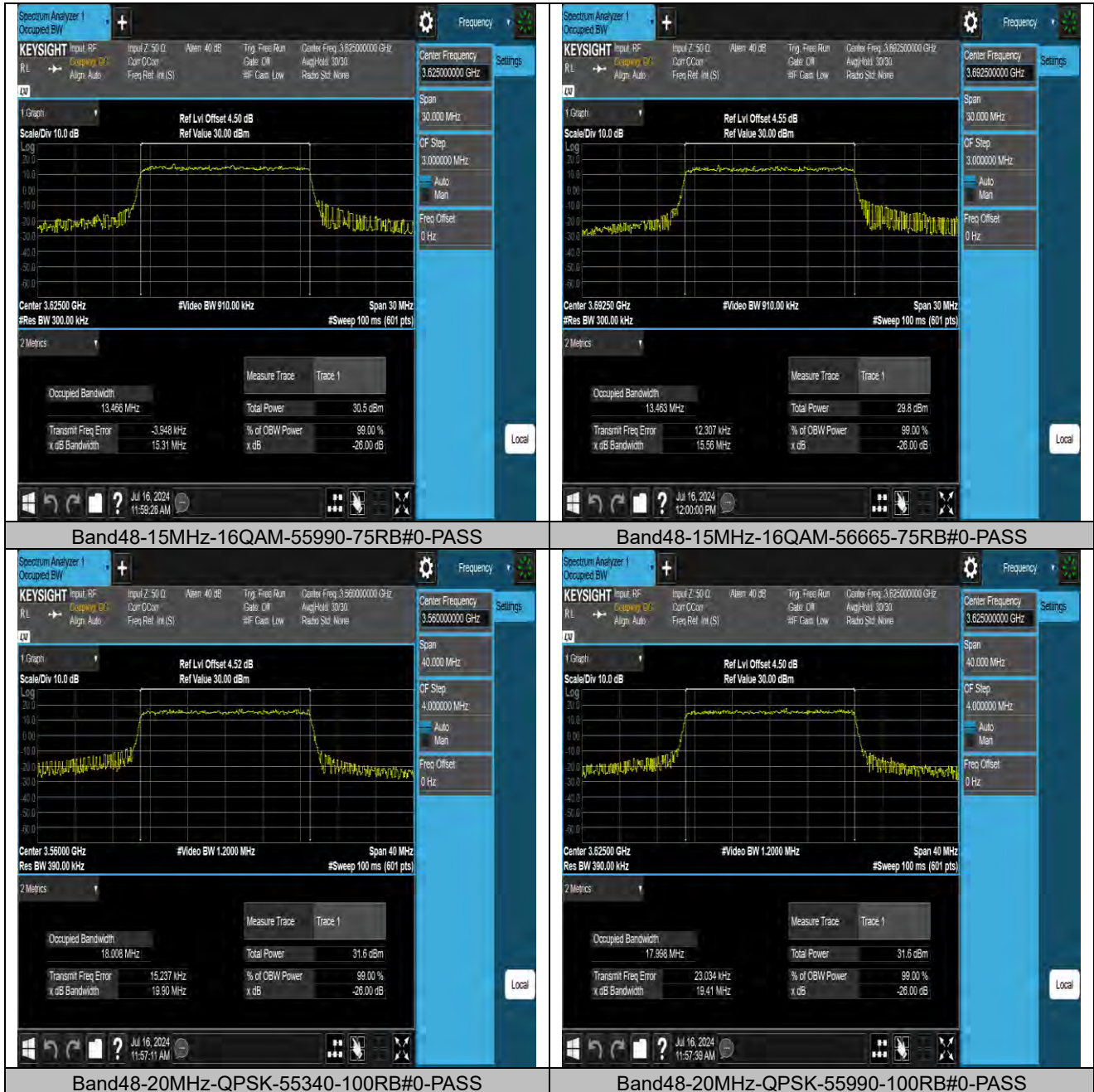
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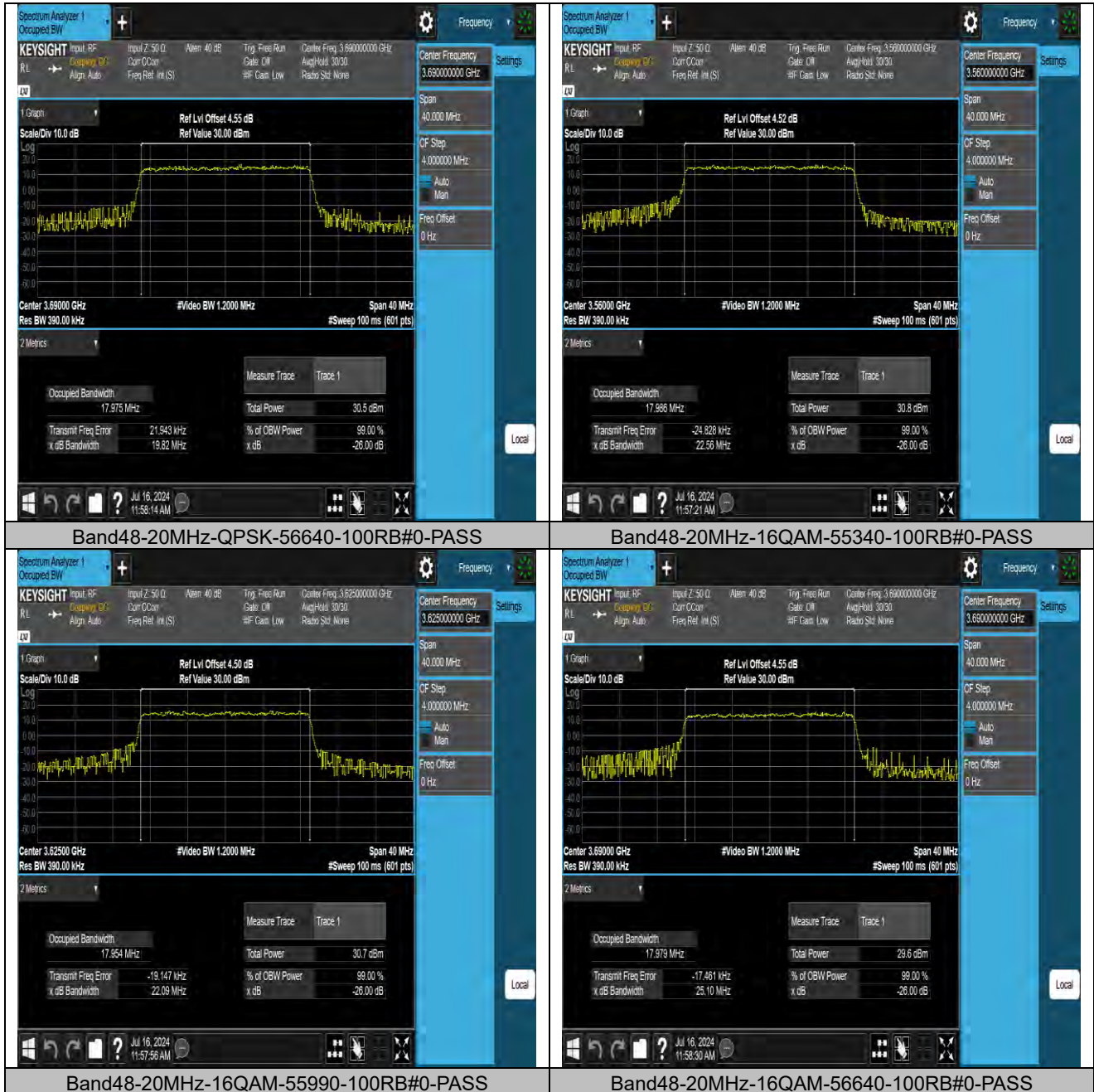
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BAND EDGE TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	-20.62	PASS
Band48	5MHz	QPSK	55265	1RB#24	-18.82	PASS
Band48	5MHz	QPSK	55265	25RB#0	-52.83	PASS
Band48	5MHz	QPSK	55990	1RB#0	-20.30	PASS
Band48	5MHz	QPSK	55990	1RB#24	-20.22	PASS
Band48	5MHz	QPSK	55990	25RB#0	-25.28	PASS
Band48	5MHz	QPSK	56715	1RB#0	-21.16	PASS
Band48	5MHz	QPSK	56715	1RB#24	-21.28	PASS
Band48	5MHz	QPSK	56715	25RB#0	-26.04	PASS
Band48	5MHz	16QAM	55265	1RB#0	-21.54	PASS
Band48	5MHz	16QAM	55265	1RB#24	-23.19	PASS
Band48	5MHz	16QAM	55265	25RB#0	-53.13	PASS
Band48	5MHz	16QAM	55990	1RB#0	-21.77	PASS
Band48	5MHz	16QAM	55990	1RB#24	-22.31	PASS
Band48	5MHz	16QAM	55990	25RB#0	-53.08	PASS
Band48	5MHz	16QAM	56715	1RB#0	-22.31	PASS
Band48	5MHz	16QAM	56715	1RB#24	-22.89	PASS
Band48	5MHz	16QAM	56715	25RB#0	-53.29	PASS
Band48	10MHz	QPSK	55290	1RB#0	-53.05	PASS
Band48	10MHz	QPSK	55290	1RB#49	-50.72	PASS
Band48	10MHz	QPSK	55290	50RB#0	-53.26	PASS
Band48	10MHz	QPSK	55990	1RB#0	-53.36	PASS
Band48	10MHz	QPSK	55990	1RB#49	-53.08	PASS
Band48	10MHz	QPSK	55990	50RB#0	-53.17	PASS
Band48	10MHz	QPSK	56690	1RB#0	-53.18	PASS
Band48	10MHz	QPSK	56690	1RB#49	-52.97	PASS
Band48	10MHz	QPSK	56690	50RB#0	-53.17	PASS
Band48	10MHz	16QAM	55290	1RB#0	-53.28	PASS
Band48	10MHz	16QAM	55290	1RB#49	-52.17	PASS
Band48	10MHz	16QAM	55290	50RB#0	-53.11	PASS
Band48	10MHz	16QAM	55990	1RB#0	-53.40	PASS
Band48	10MHz	16QAM	55990	1RB#49	-52.75	PASS
Band48	10MHz	16QAM	55990	50RB#0	-53.44	PASS
Band48	10MHz	16QAM	56690	1RB#0	-53.06	PASS
Band48	10MHz	16QAM	56690	1RB#49	-53.27	PASS
Band48	10MHz	16QAM	56690	50RB#0	-53.10	PASS
Band48	15MHz	QPSK	55315	1RB#0	-53.17	PASS
Band48	15MHz	QPSK	55315	1RB#74	-52.83	PASS
Band48	15MHz	QPSK	55315	75RB#0	-24.93	PASS
Band48	15MHz	QPSK	55990	1RB#0	-53.36	PASS
Band48	15MHz	QPSK	55990	1RB#74	-53.29	PASS
Band48	15MHz	QPSK	55990	75RB#0	-24.89	PASS
Band48	15MHz	QPSK	56665	1RB#0	-52.89	PASS
Band48	15MHz	QPSK	56665	1RB#74	-52.92	PASS



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Band48	15MHz	QPSK	56665	75RB#0	-50.44	PASS
Band48	15MHz	16QAM	55315	1RB#0	-53.03	PASS
Band48	15MHz	16QAM	55315	1RB#74	-53.33	PASS
Band48	15MHz	16QAM	55315	75RB#0	-53.25	PASS
Band48	15MHz	16QAM	55990	1RB#0	-53.54	PASS
Band48	15MHz	16QAM	55990	1RB#74	-53.29	PASS
Band48	15MHz	16QAM	55990	75RB#0	-53.30	PASS
Band48	15MHz	16QAM	56665	1RB#0	-53.20	PASS
Band48	15MHz	16QAM	56665	1RB#74	-53.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	-51.89	PASS
Band48	20MHz	QPSK	55340	1RB#0	-53.38	PASS
Band48	20MHz	QPSK	55340	1RB#99	-53.21	PASS
Band48	20MHz	QPSK	55340	100RB#0	-34.70	PASS
Band48	20MHz	QPSK	55990	1RB#0	-53.02	PASS
Band48	20MHz	QPSK	55990	1RB#99	-53.47	PASS
Band48	20MHz	QPSK	55990	100RB#0	-53.33	PASS
Band48	20MHz	QPSK	56640	1RB#0	-52.71	PASS
Band48	20MHz	QPSK	56640	1RB#99	-53.08	PASS
Band48	20MHz	QPSK	56640	100RB#0	-48.44	PASS
Band48	20MHz	16QAM	55340	1RB#0	-53.25	PASS
Band48	20MHz	16QAM	55340	1RB#99	-53.21	PASS
Band48	20MHz	16QAM	55340	100RB#0	-37.37	PASS
Band48	20MHz	16QAM	55990	1RB#0	-53.21	PASS
Band48	20MHz	16QAM	55990	1RB#99	-53.35	PASS
Band48	20MHz	16QAM	55990	100RB#0	-53.21	PASS
Band48	20MHz	16QAM	56640	1RB#0	-53.11	PASS
Band48	20MHz	16QAM	56640	1RB#99	-53.13	PASS
Band48	20MHz	16QAM	56640	100RB#0	-49.11	PASS

TEST GRAPHS



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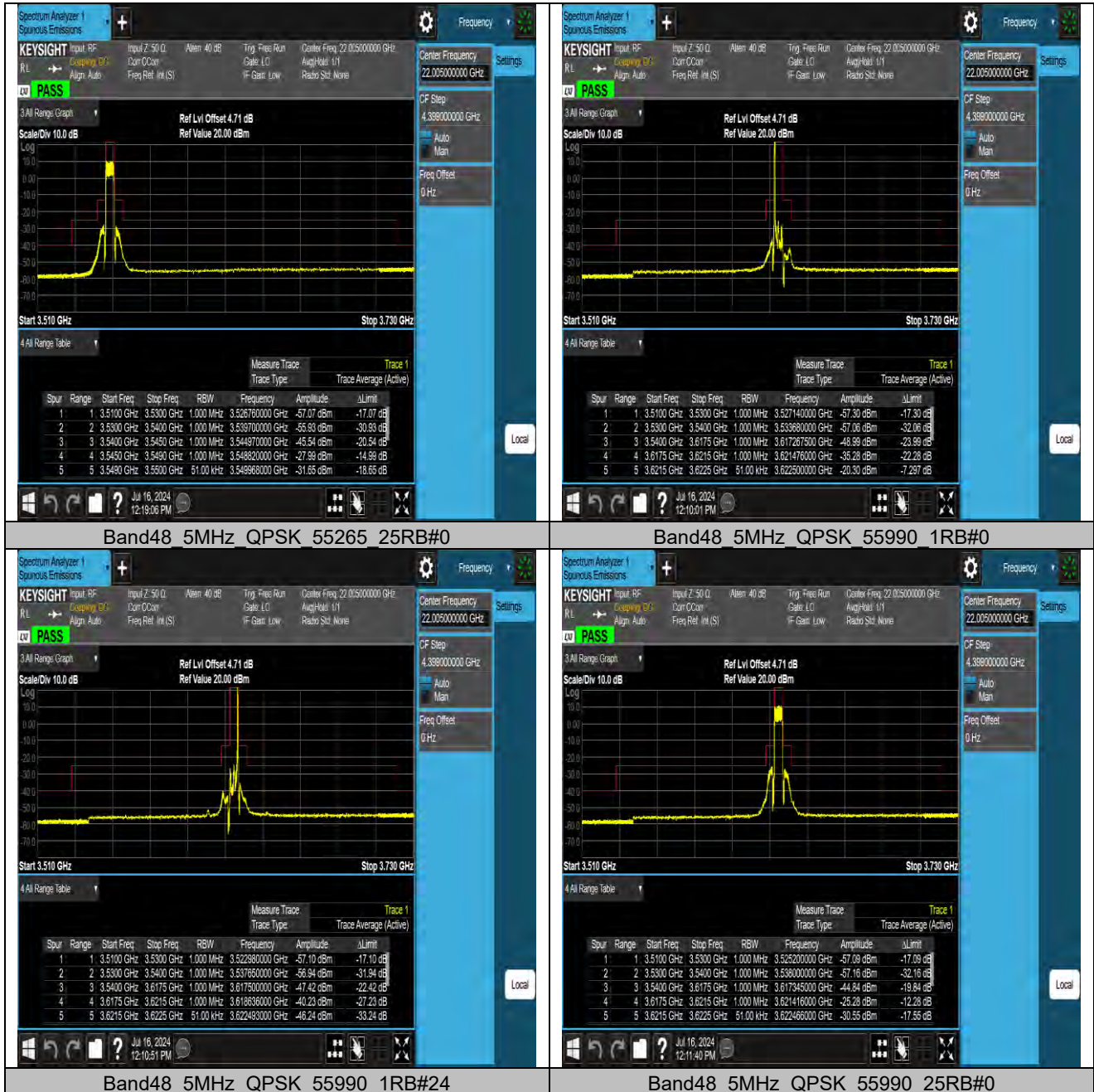
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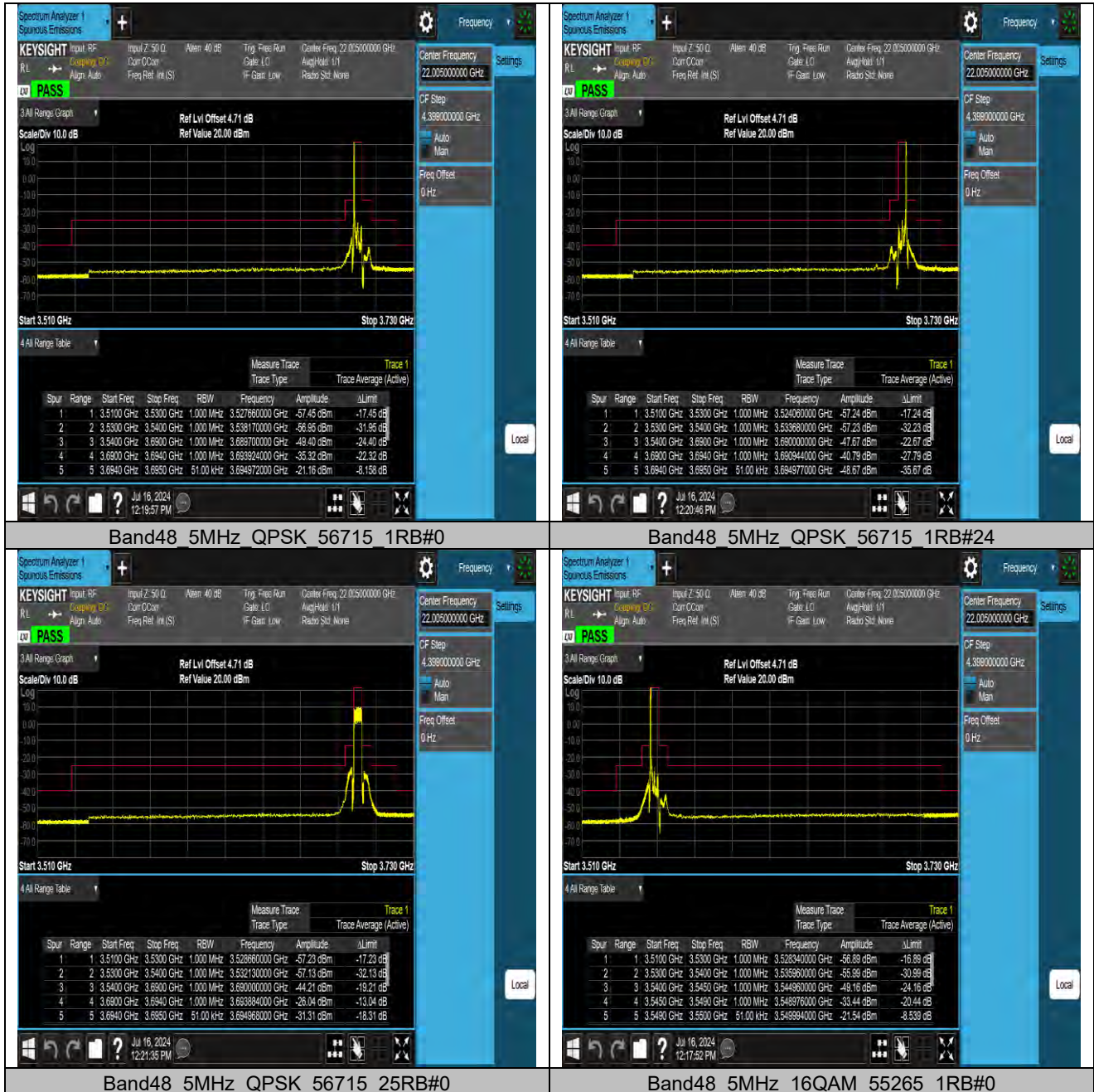
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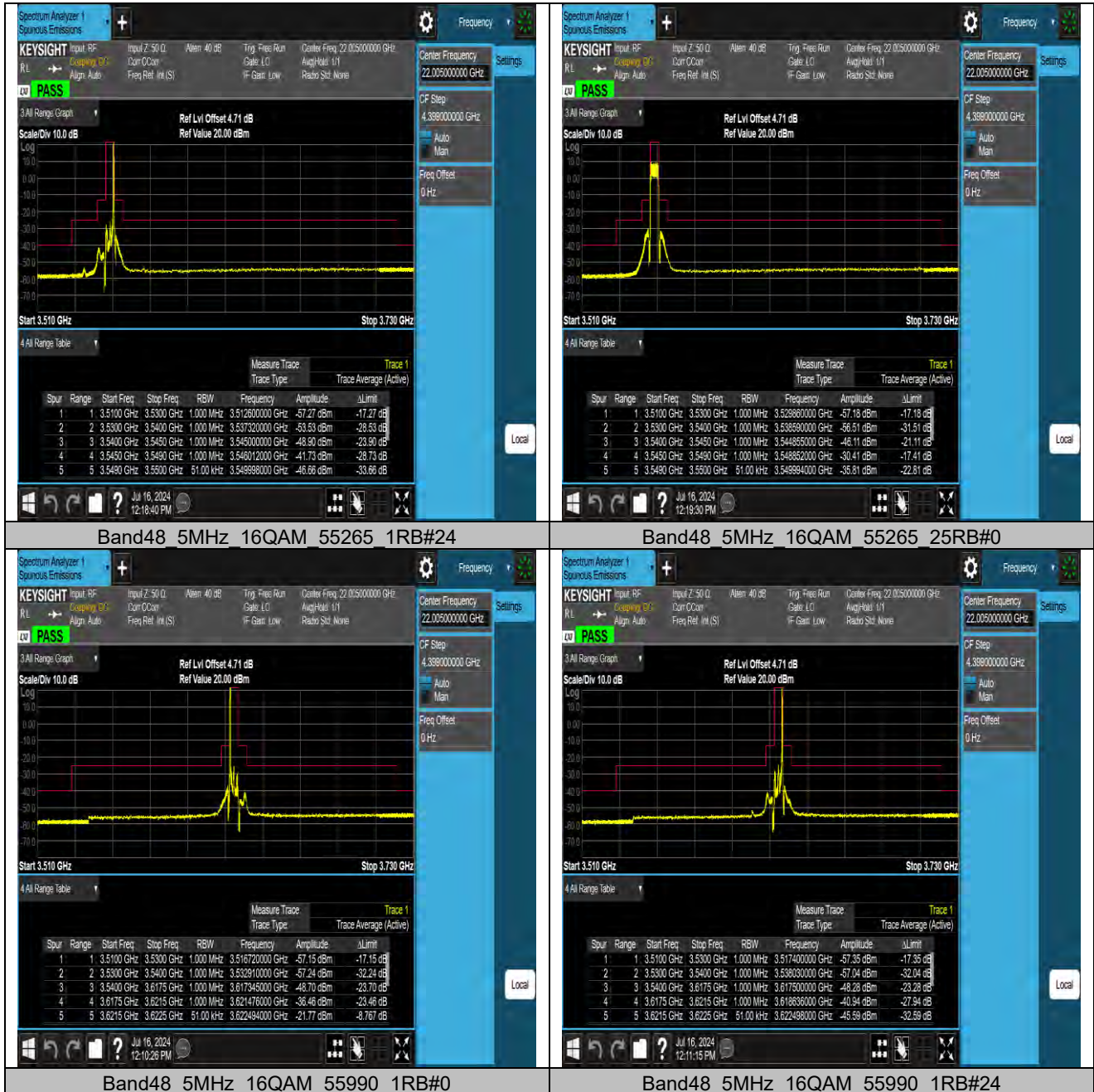
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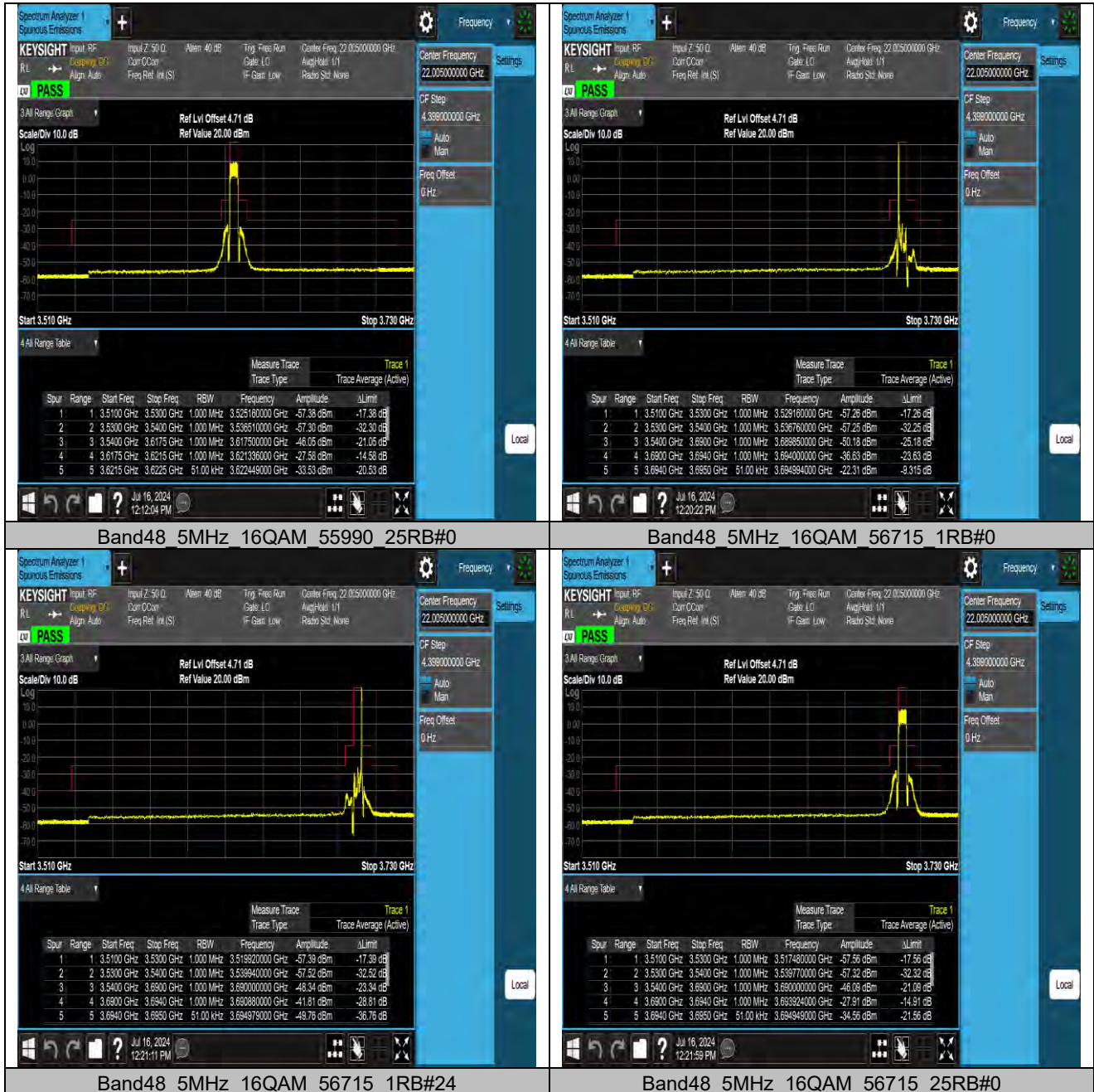
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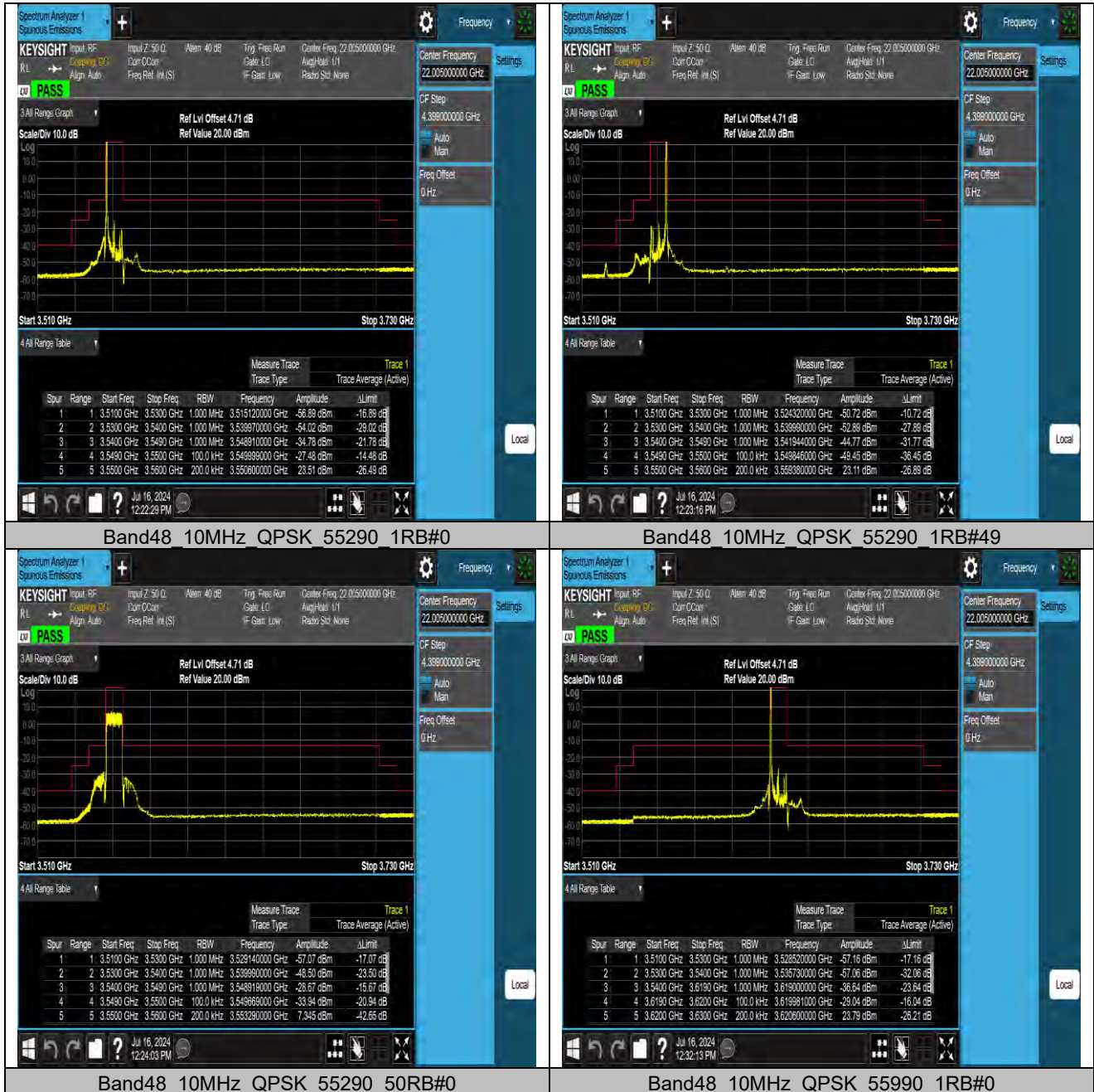
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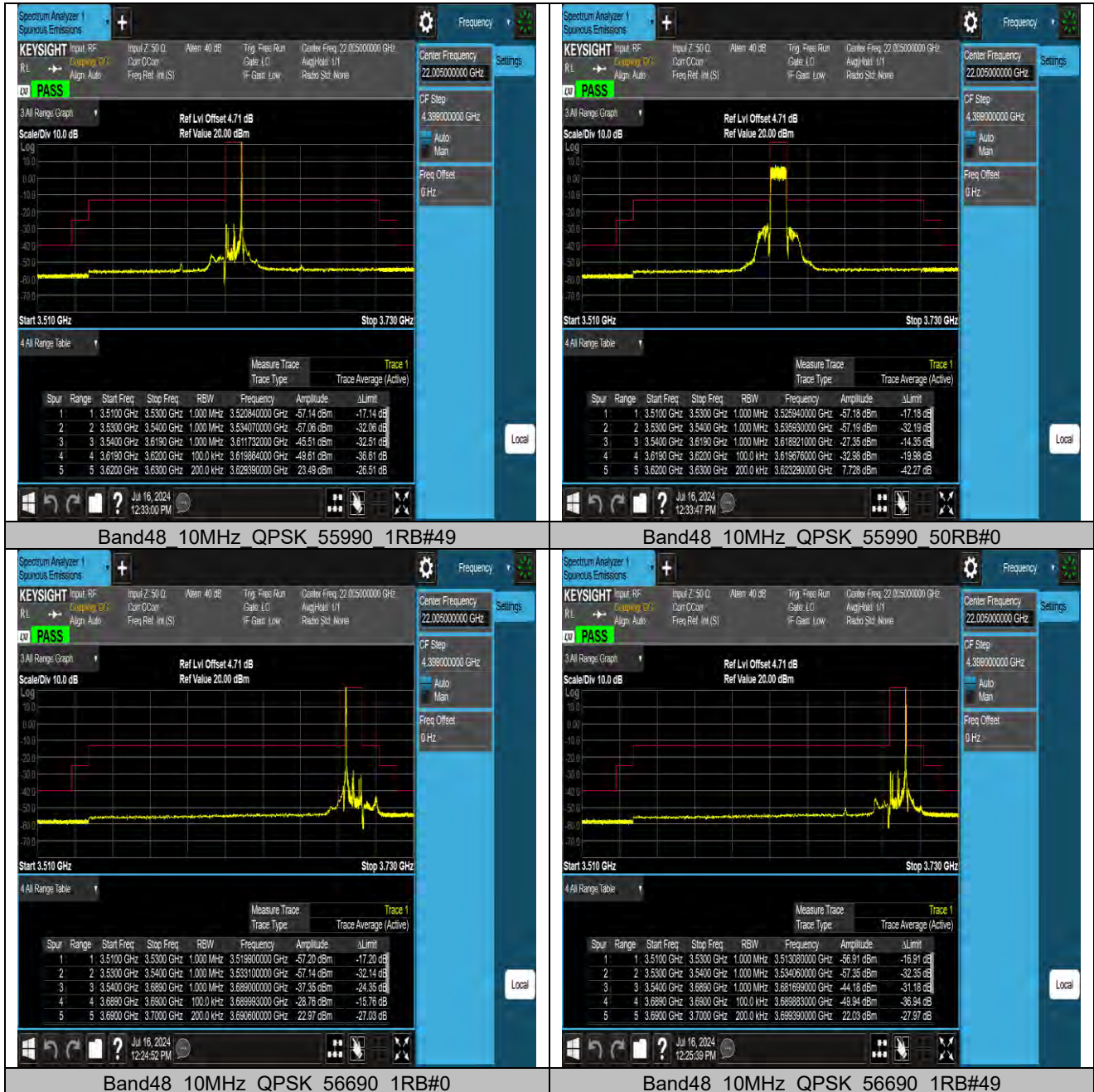
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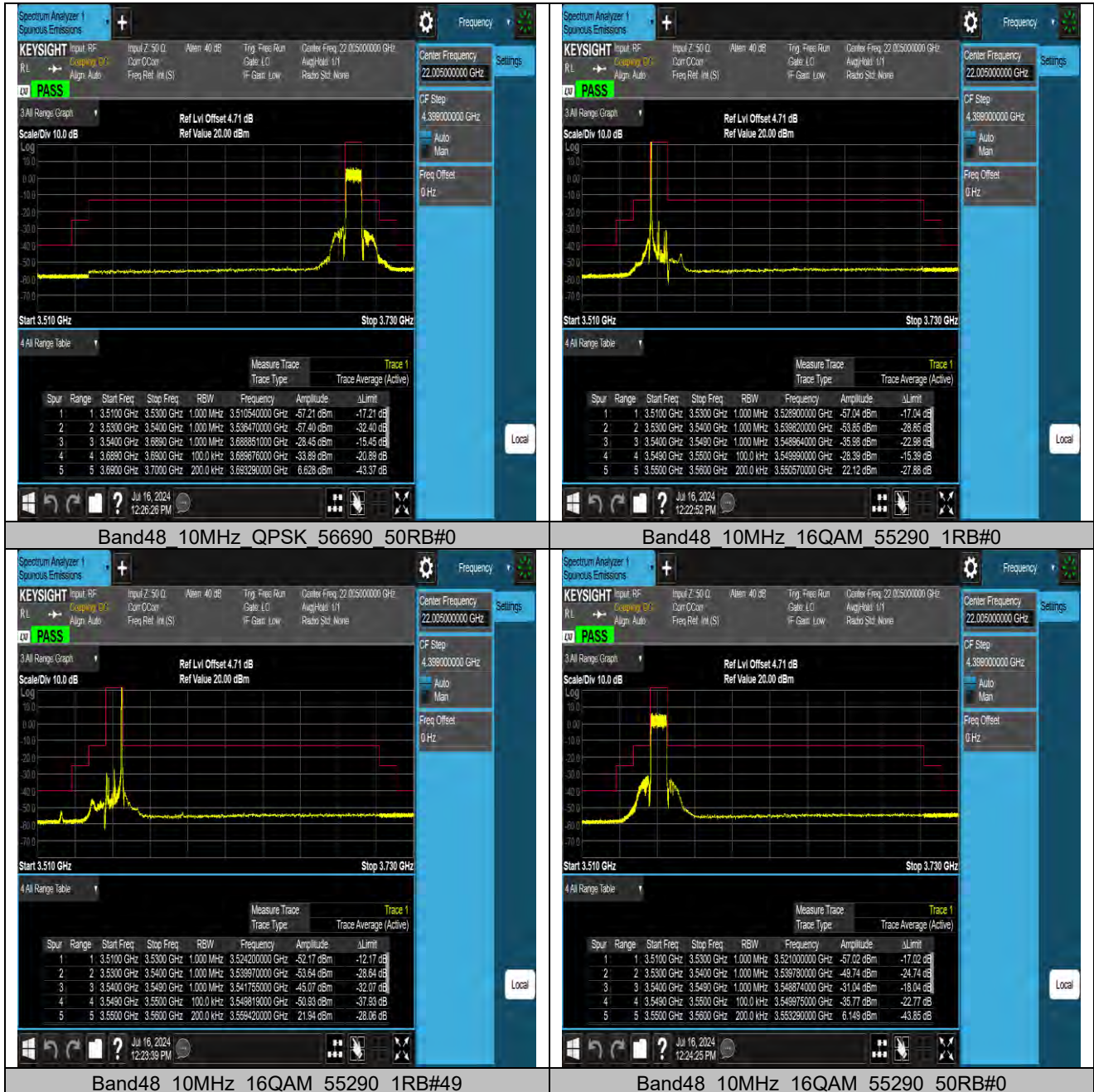
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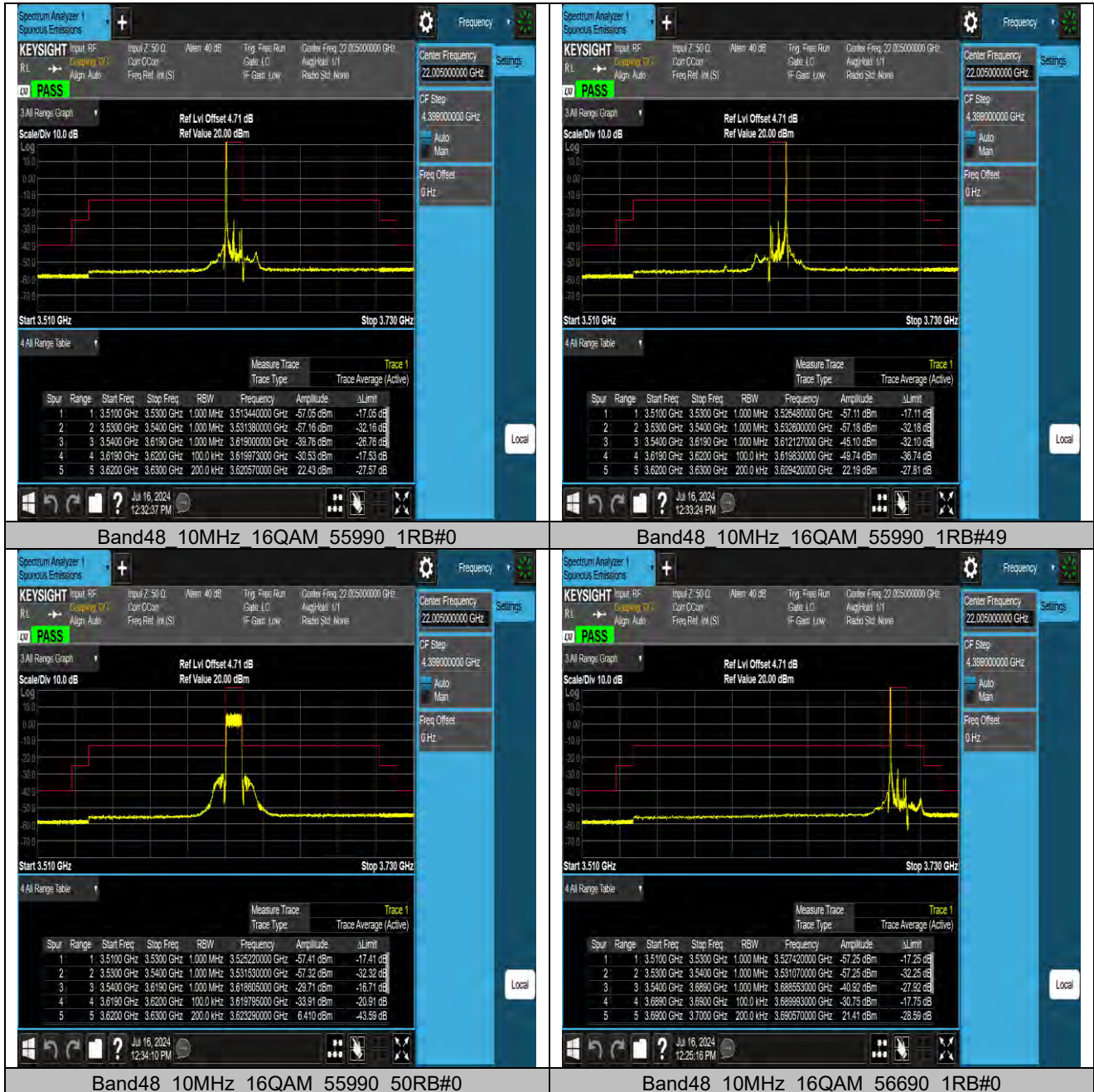
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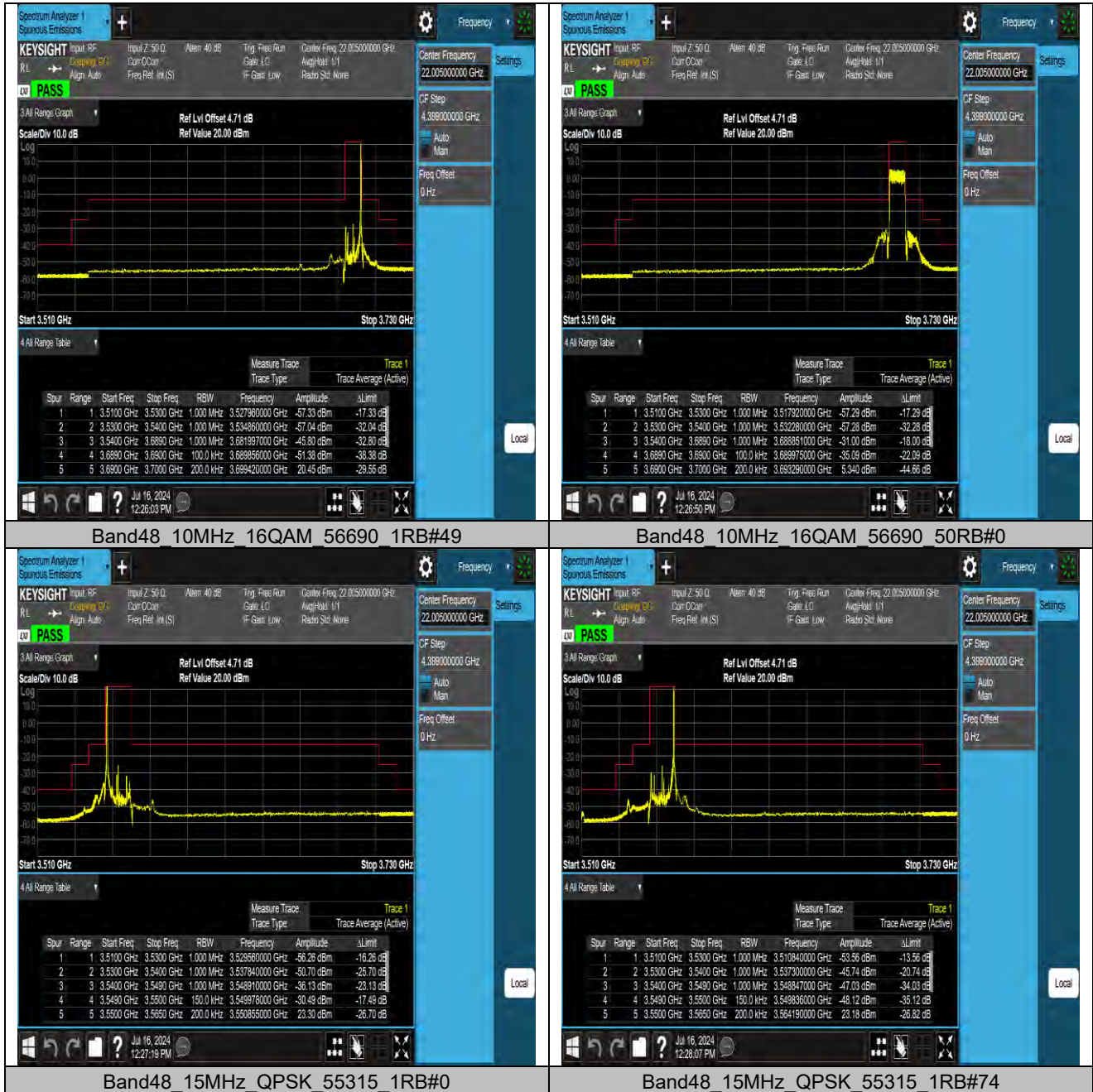
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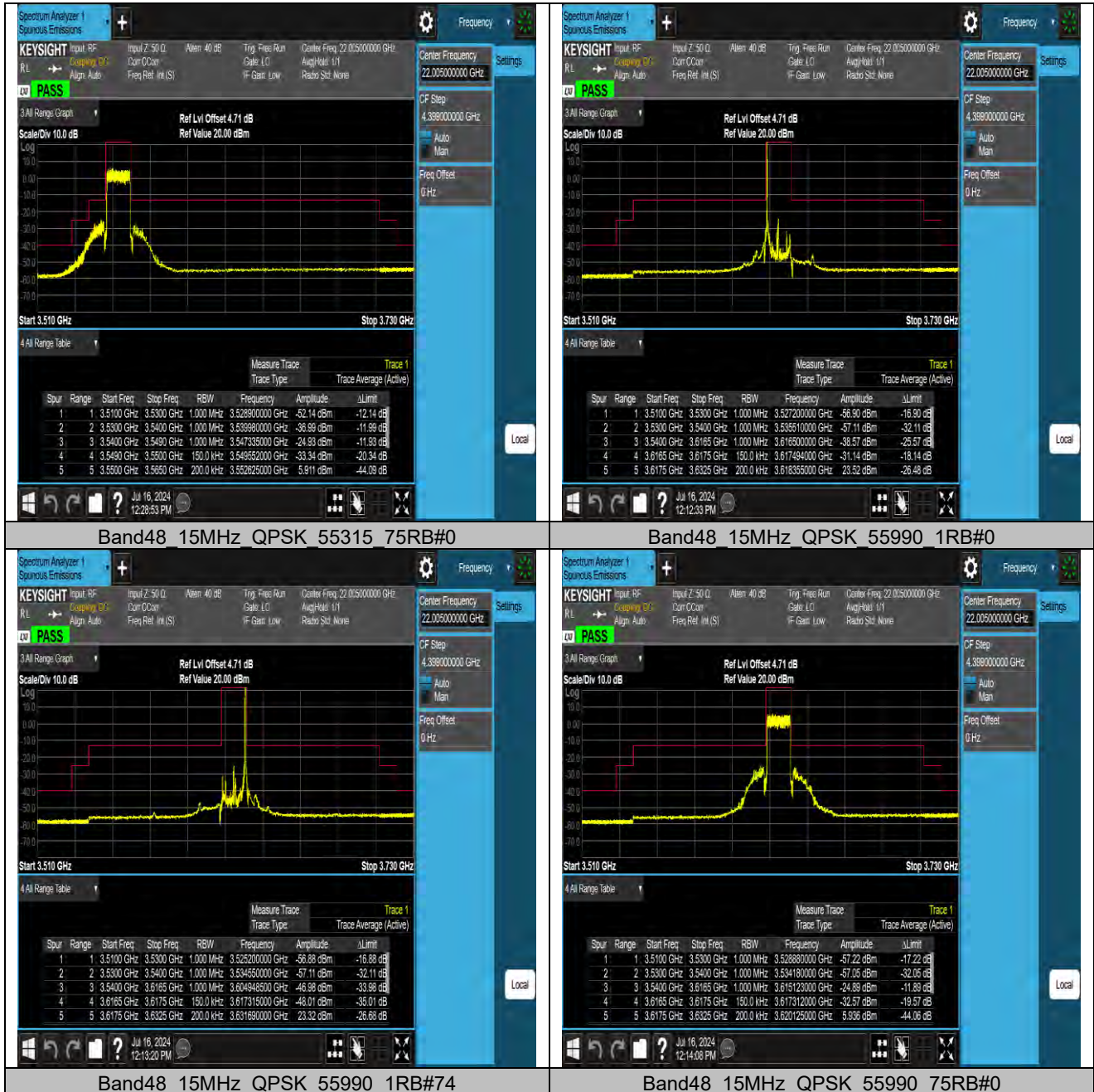
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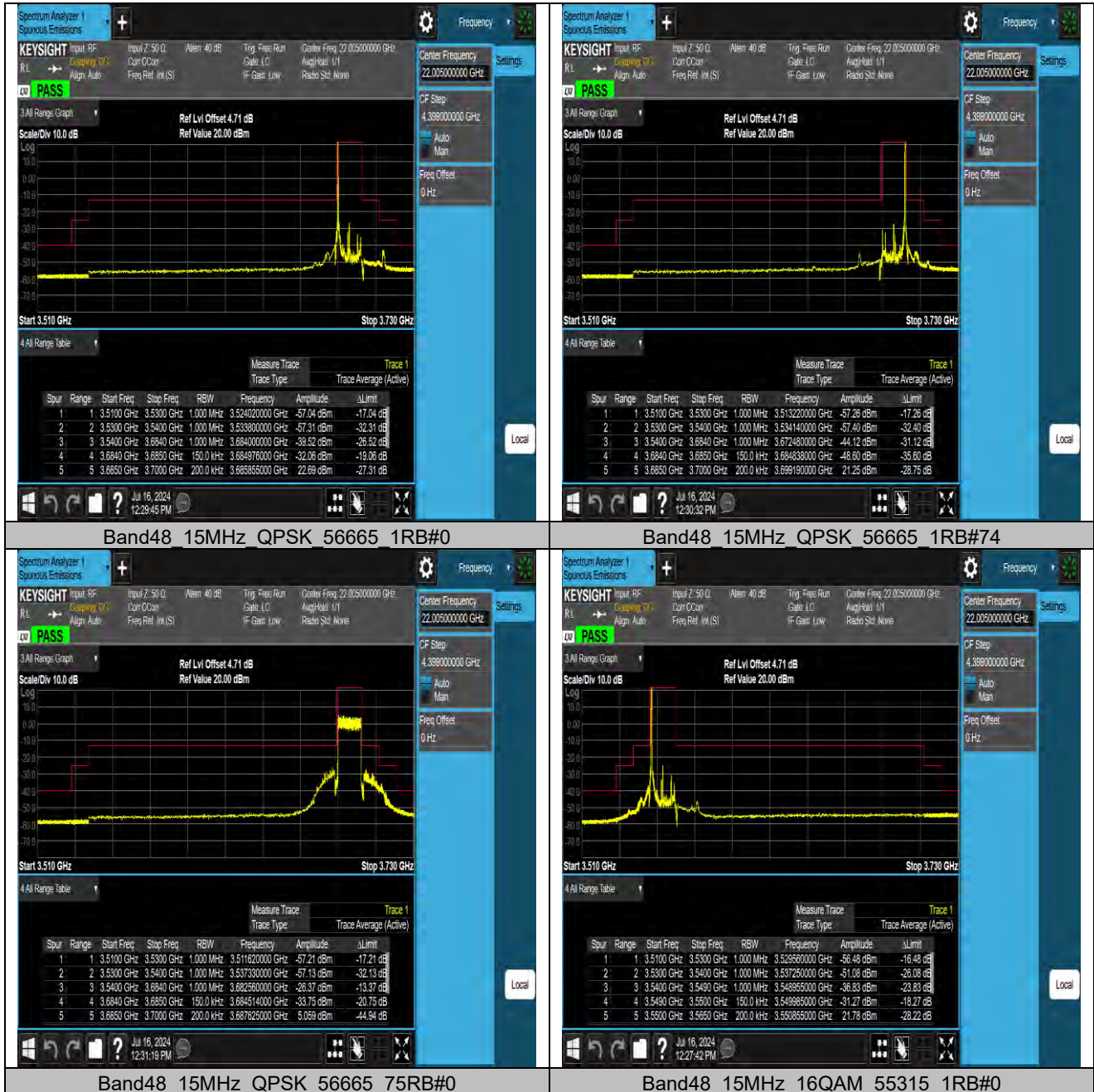
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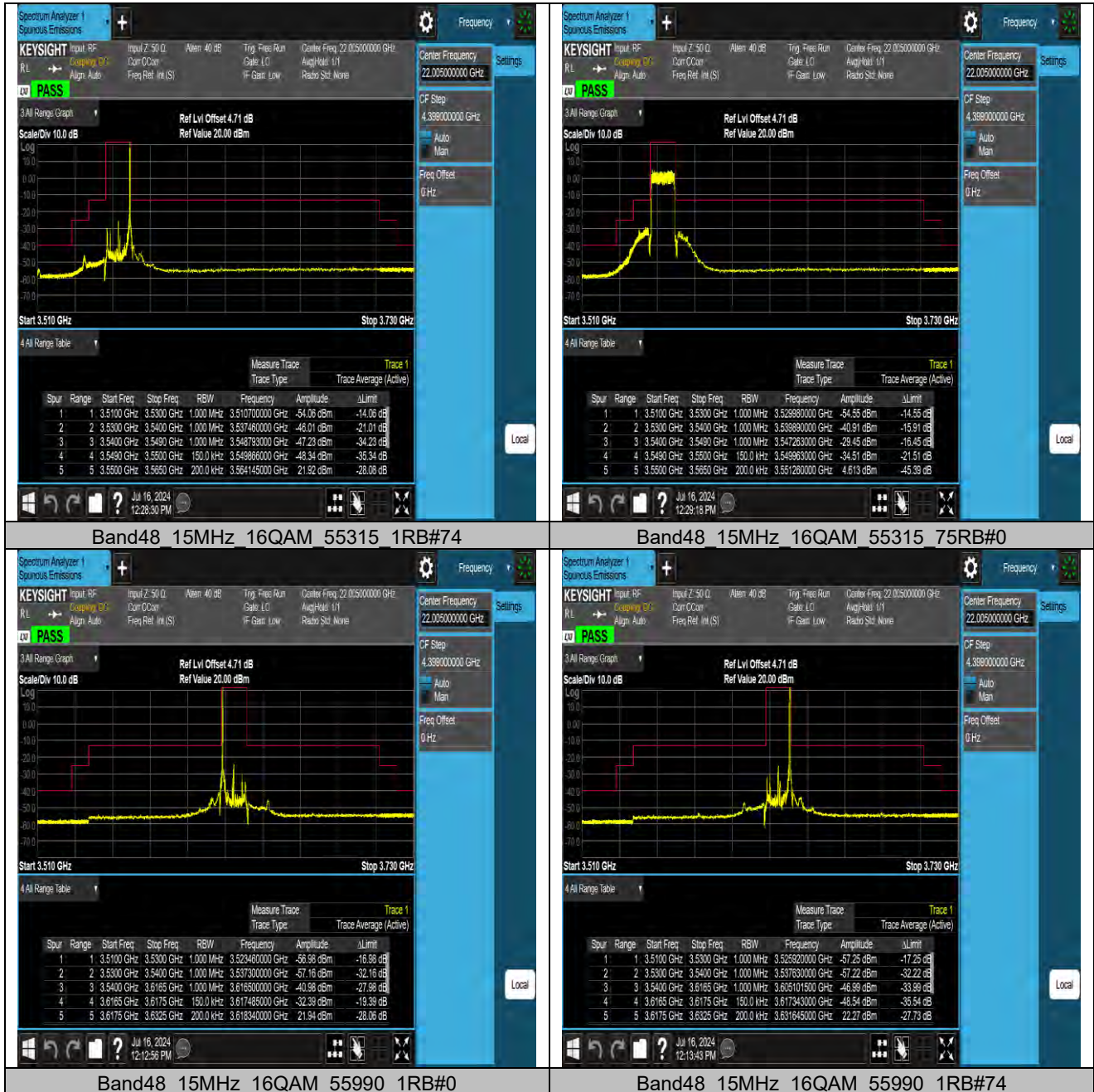
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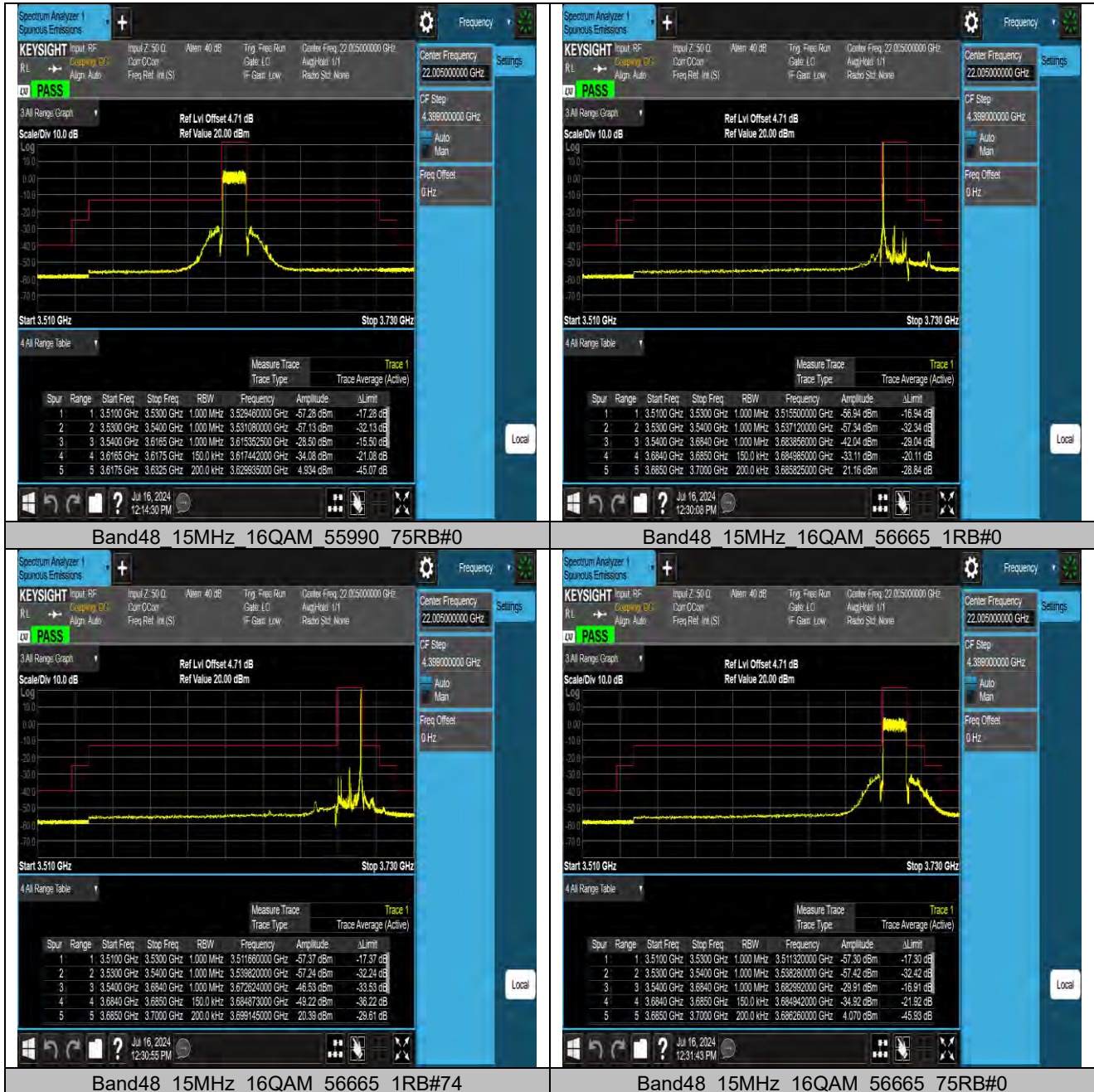
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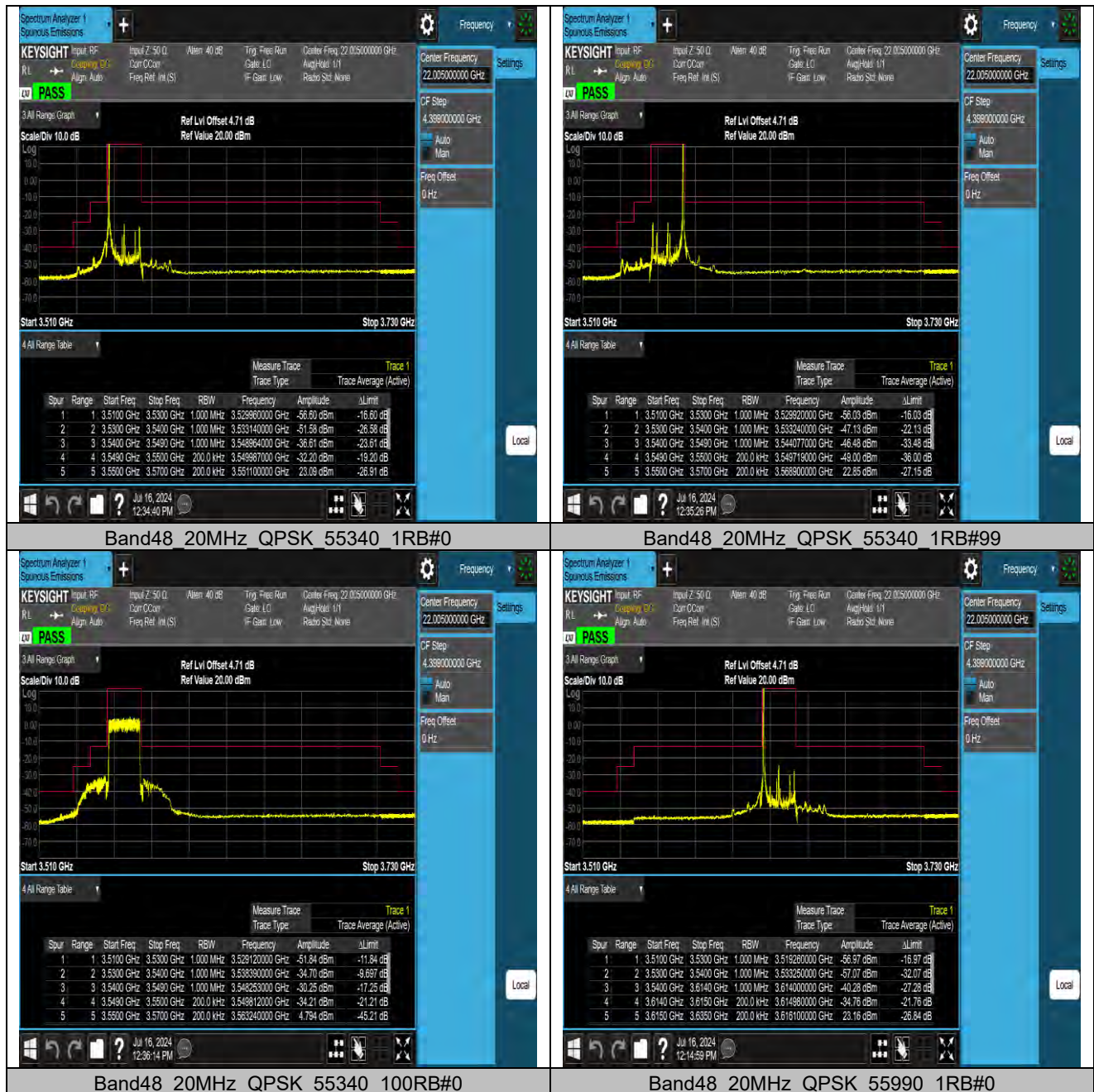
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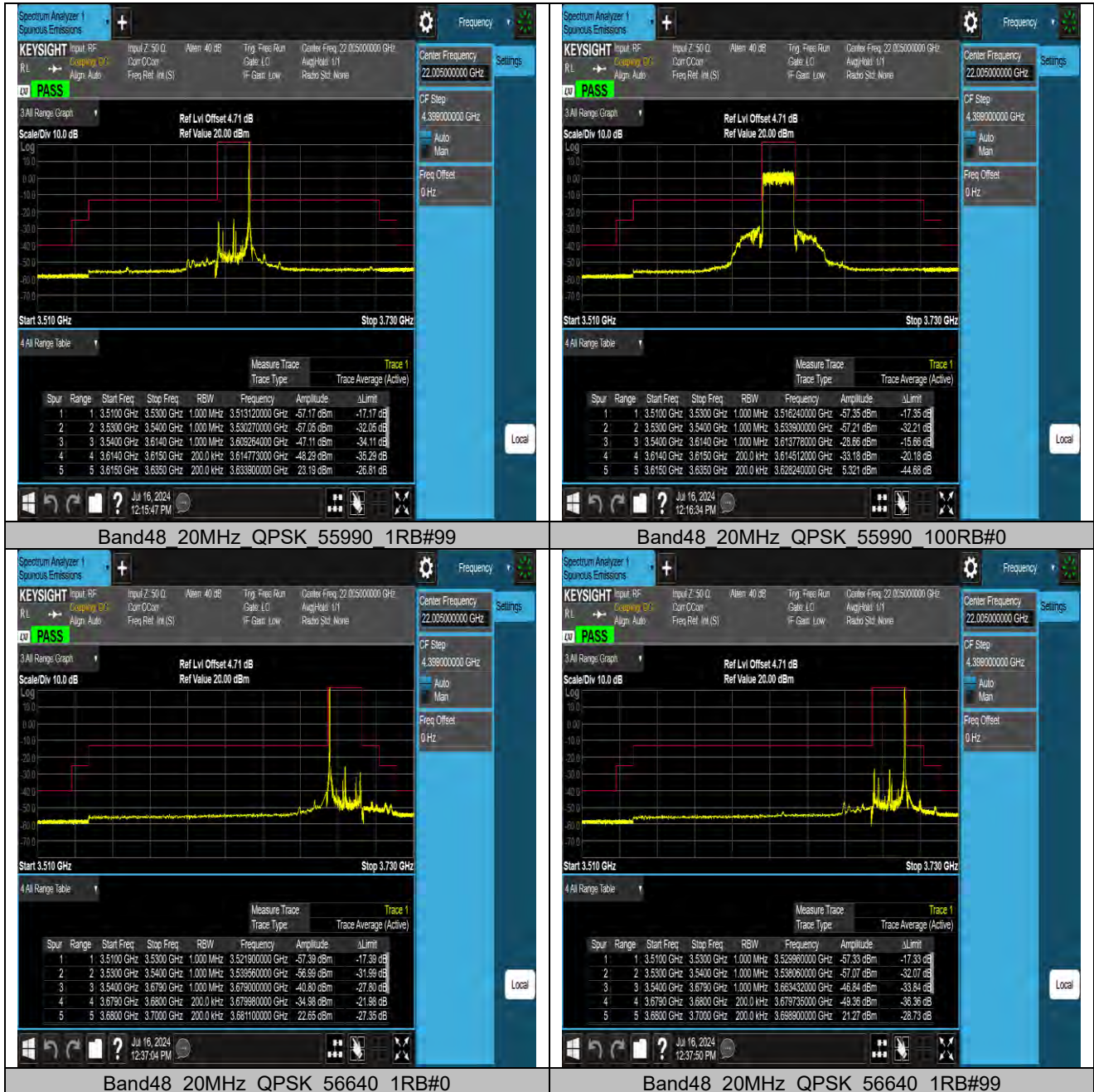
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Guangdong, People's Republic of China

Tel: +86 755 8869 6566
Fax: +86 755 8869 6577
Email: customerservice.sw@bureauveritas.com



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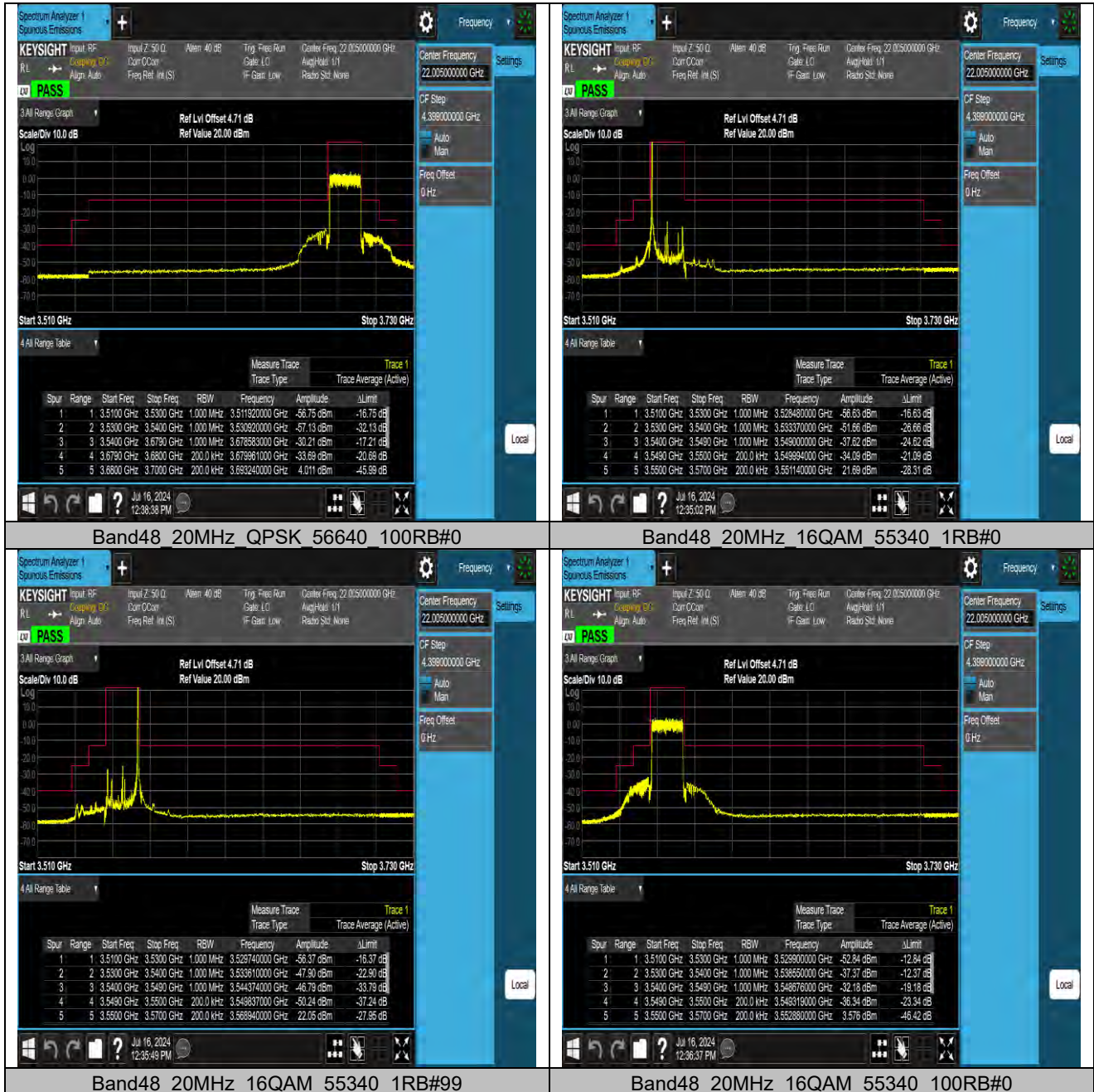
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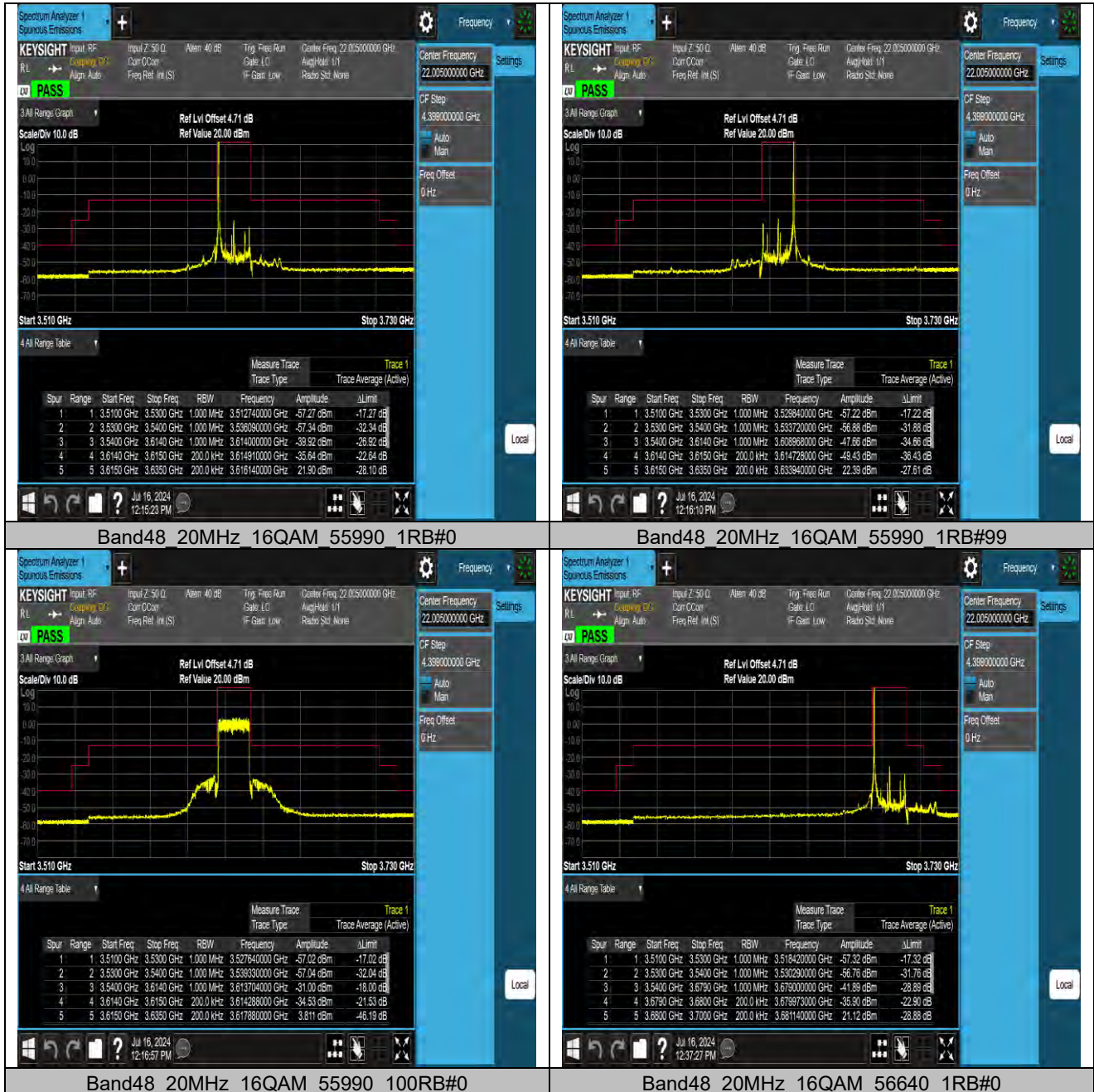
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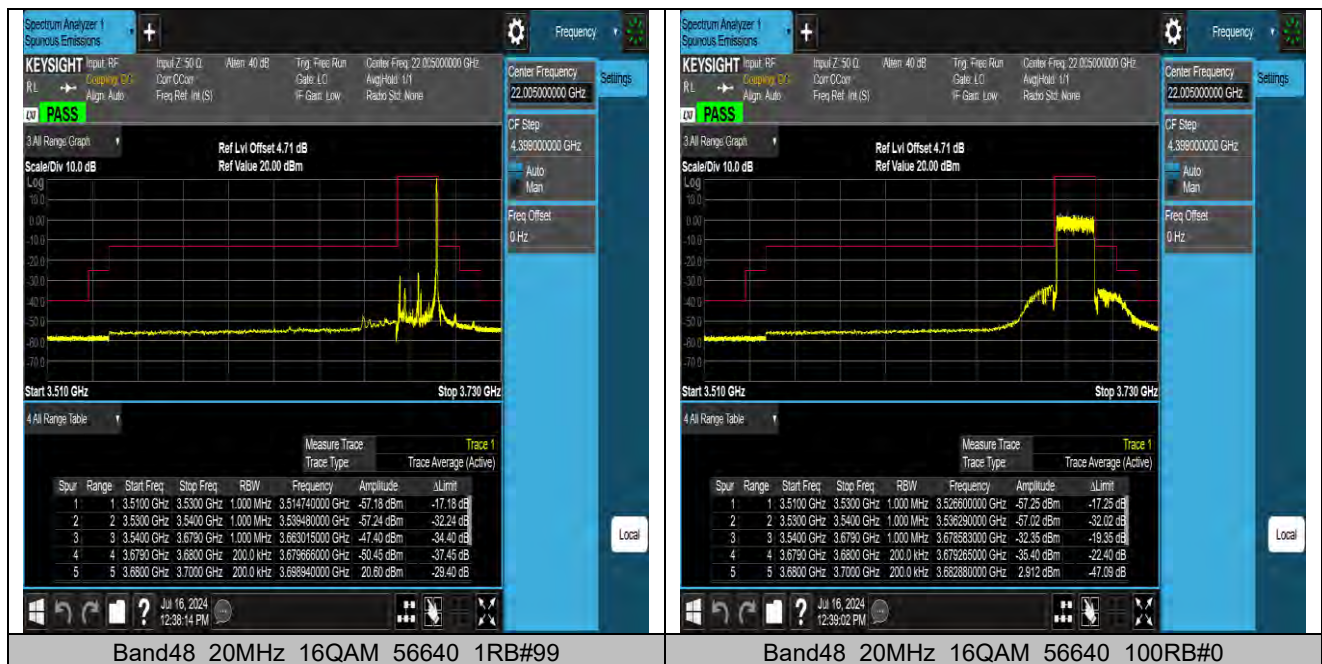
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CONDUCTED SPURIOUS EMISSION TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	30~1000	-55.05	PASS
Band48	5MHz	QPSK	55265	1RB#0	1000~10000	-47.41	PASS
Band48	5MHz	QPSK	55265	1RB#0	10000~20000	-55.37	PASS
Band48	5MHz	QPSK	55265	1RB#0	20000~40000	-58.64	PASS
Band48	5MHz	QPSK	55990	1RB#0	30~1000	-57.76	PASS
Band48	5MHz	QPSK	55990	1RB#0	1000~10000	-47.57	PASS
Band48	5MHz	QPSK	55990	1RB#0	10000~20000	-55.36	PASS
Band48	5MHz	QPSK	55990	1RB#0	20000~40000	-58.78	PASS
Band48	5MHz	QPSK	56715	1RB#0	30~1000	-57.89	PASS
Band48	5MHz	QPSK	56715	1RB#0	1000~10000	-47.47	PASS
Band48	5MHz	QPSK	56715	1RB#0	10000~20000	-55.39	PASS
Band48	5MHz	QPSK	56715	1RB#0	20000~40000	-58.78	PASS
Band48	10MHz	QPSK	55290	1RB#0	30~1000	-55.23	PASS
Band48	10MHz	QPSK	55290	1RB#0	1000~10000	-47.73	PASS
Band48	10MHz	QPSK	55290	1RB#0	10000~20000	-55.24	PASS
Band48	10MHz	QPSK	55290	1RB#0	20000~40000	-58.83	PASS
Band48	10MHz	QPSK	55990	1RB#0	30~1000	-57.80	PASS
Band48	10MHz	QPSK	55990	1RB#0	1000~10000	-47.41	PASS
Band48	10MHz	QPSK	55990	1RB#0	10000~20000	-55.45	PASS
Band48	10MHz	QPSK	55990	1RB#0	20000~40000	-59.27	PASS
Band48	10MHz	QPSK	56690	1RB#0	30~1000	-57.83	PASS
Band48	10MHz	QPSK	56690	1RB#0	1000~10000	-47.62	PASS
Band48	10MHz	QPSK	56690	1RB#0	10000~20000	-55.37	PASS
Band48	10MHz	QPSK	56690	1RB#0	20000~40000	-58.79	PASS
Band48	15MHz	QPSK	55315	1RB#0	30~1000	-55.09	PASS
Band48	15MHz	QPSK	55315	1RB#0	1000~10000	-47.65	PASS
Band48	15MHz	QPSK	55315	1RB#0	10000~20000	-55.41	PASS
Band48	15MHz	QPSK	55315	1RB#0	20000~40000	-59.25	PASS
Band48	15MHz	QPSK	55990	1RB#0	30~1000	-57.86	PASS
Band48	15MHz	QPSK	55990	1RB#0	1000~10000	-47.66	PASS
Band48	15MHz	QPSK	55990	1RB#0	10000~20000	-55.43	PASS
Band48	15MHz	QPSK	55990	1RB#0	20000~40000	-59.18	PASS
Band48	15MHz	QPSK	56665	1RB#0	30~1000	-57.63	PASS
Band48	15MHz	QPSK	56665	1RB#0	1000~10000	-48.03	PASS
Band48	15MHz	QPSK	56665	1RB#0	10000~20000	-55.45	PASS
Band48	15MHz	QPSK	56665	1RB#0	20000~40000	-59.29	PASS
Band48	20MHz	QPSK	55340	1RB#0	30~1000	-55.05	PASS
Band48	20MHz	QPSK	55340	1RB#0	1000~10000	-47.13	PASS
Band48	20MHz	QPSK	55340	1RB#0	10000~20000	-55.15	PASS
Band48	20MHz	QPSK	55340	1RB#0	20000~40000	-59.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	30~1000	-57.84	PASS
Band48	20MHz	QPSK	55990	1RB#0	1000~10000	-47.68	PASS
Band48	20MHz	QPSK	55990	1RB#0	10000~20000	-55.35	PASS
Band48	20MHz	QPSK	55990	1RB#0	20000~40000	-59.08	PASS

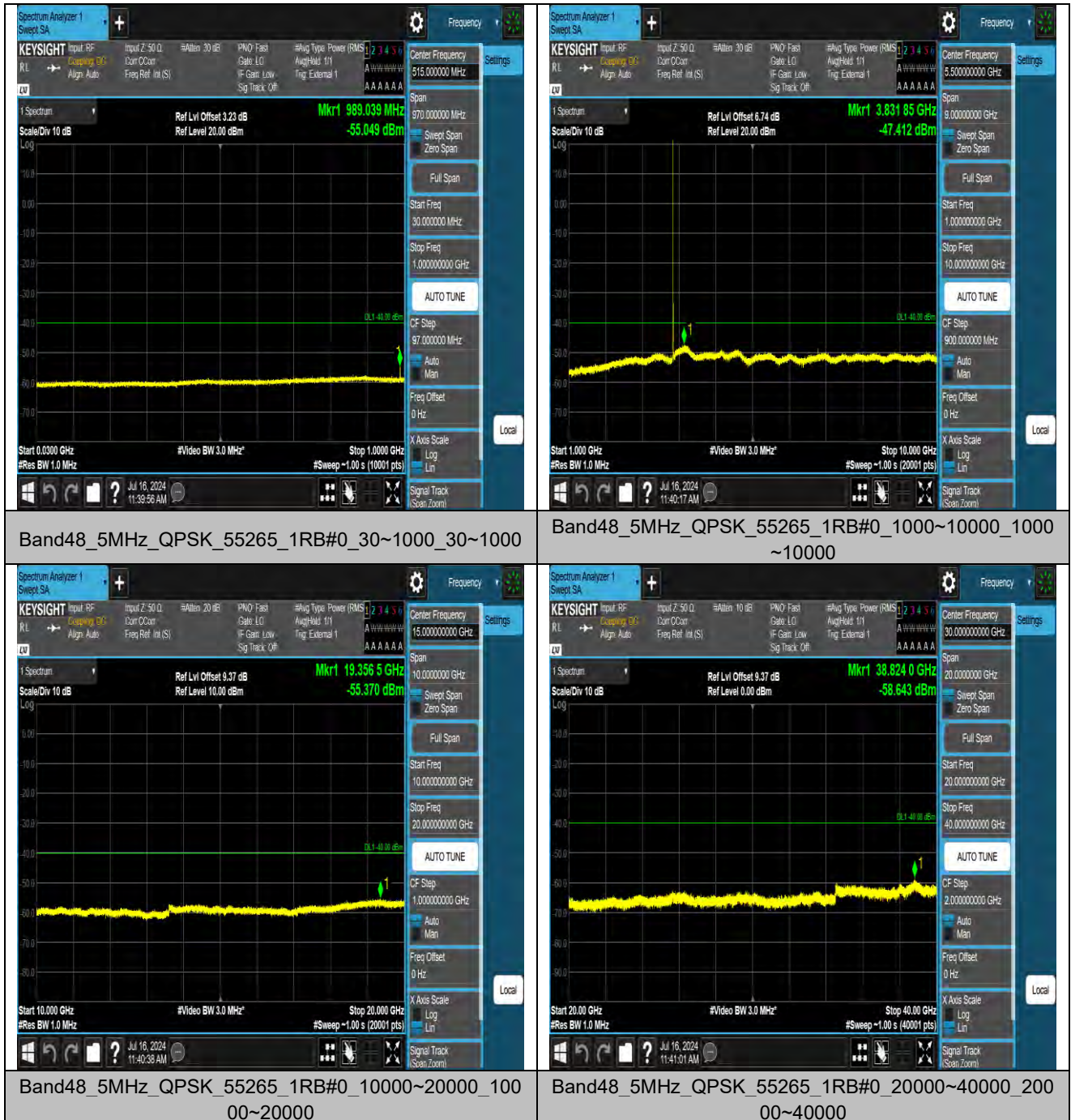


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Band48	20MHz	QPSK	56640	1RB#0	30~1000	-57.83	PASS
Band48	20MHz	QPSK	56640	1RB#0	1000~10000	-47.78	PASS
Band48	20MHz	QPSK	56640	1RB#0	10000~20000	-55.51	PASS
Band48	20MHz	QPSK	56640	1RB#0	20000~40000	-58.82	PASS

TEST GRAPHS



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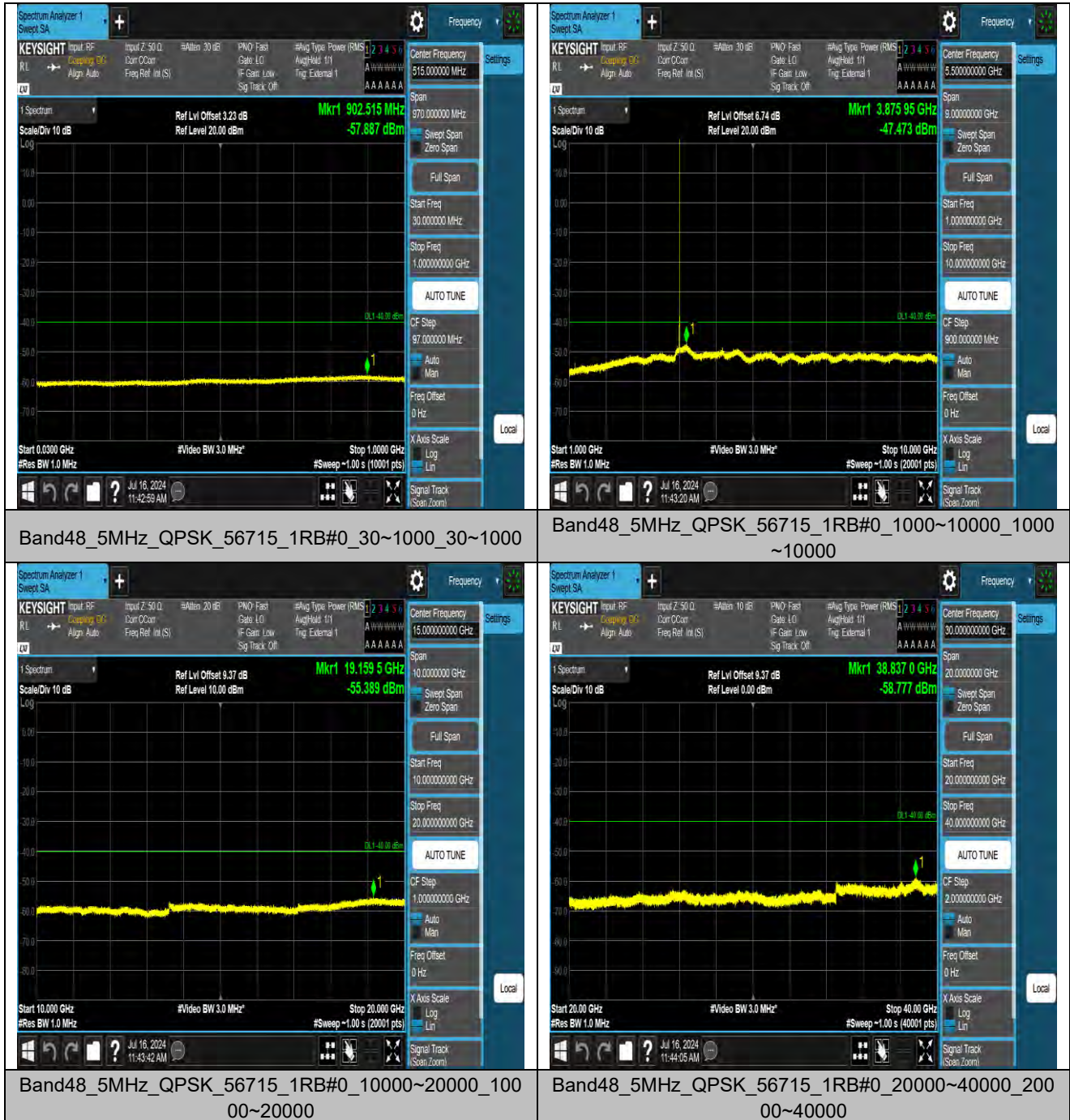
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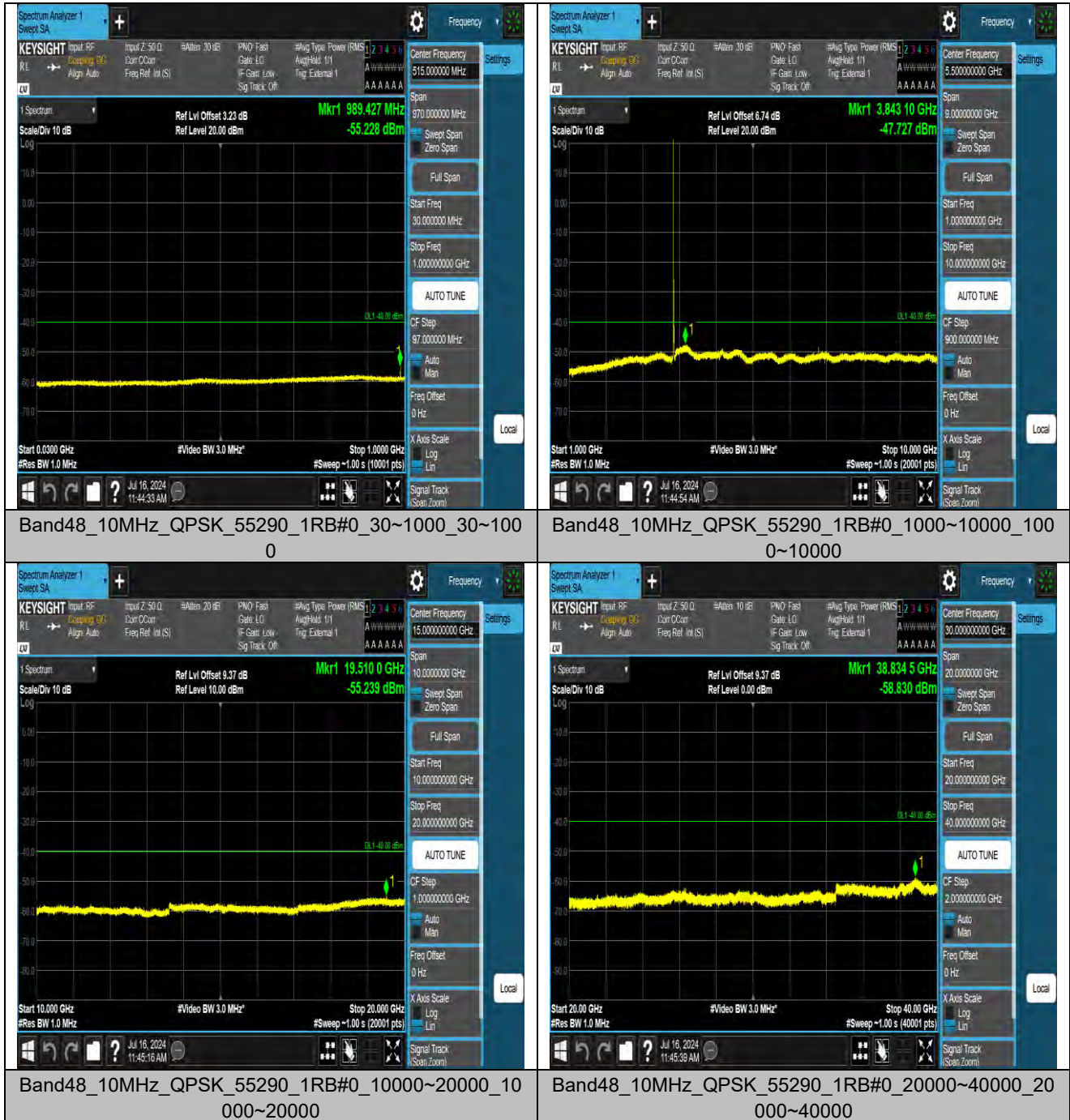
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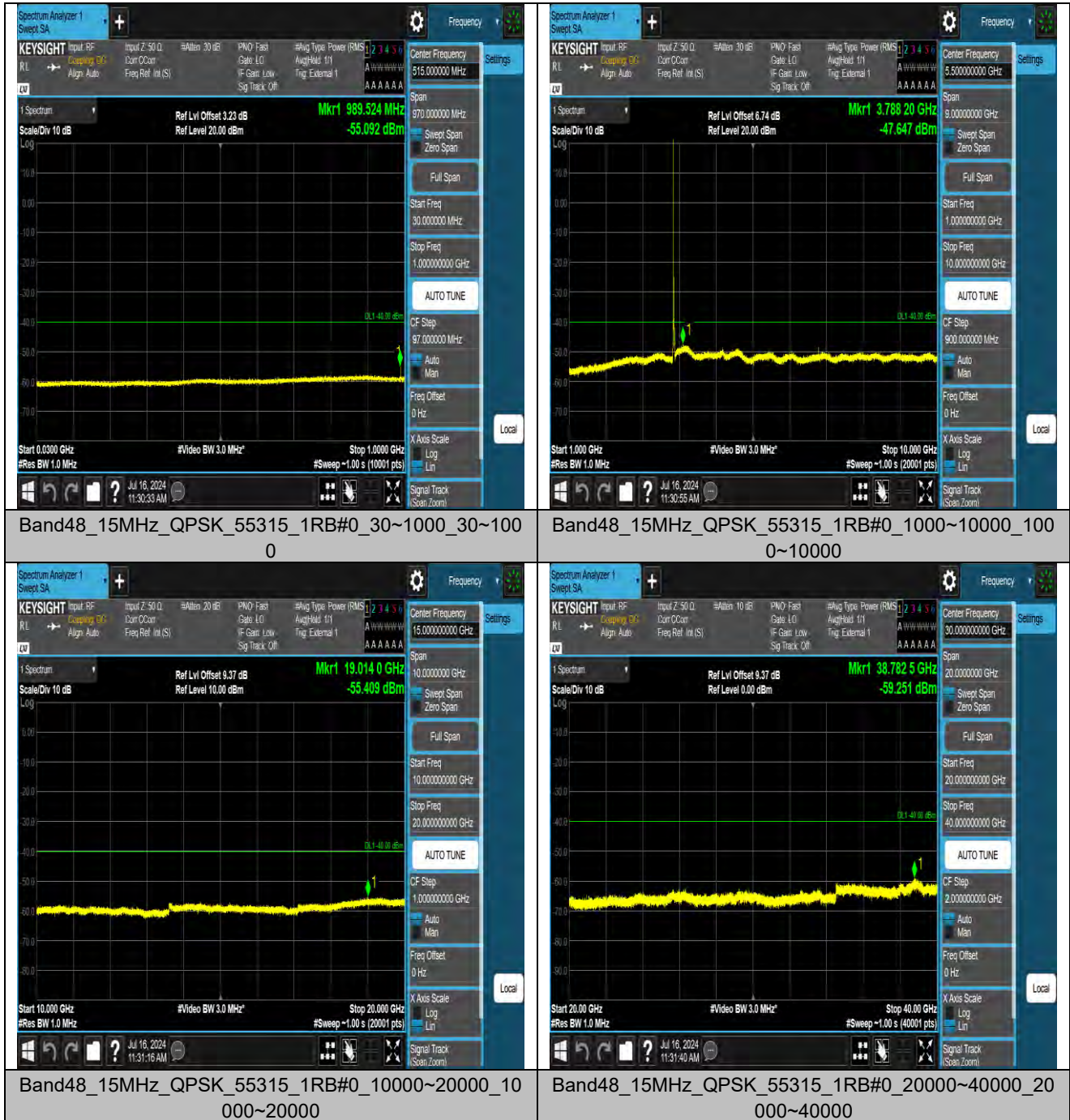
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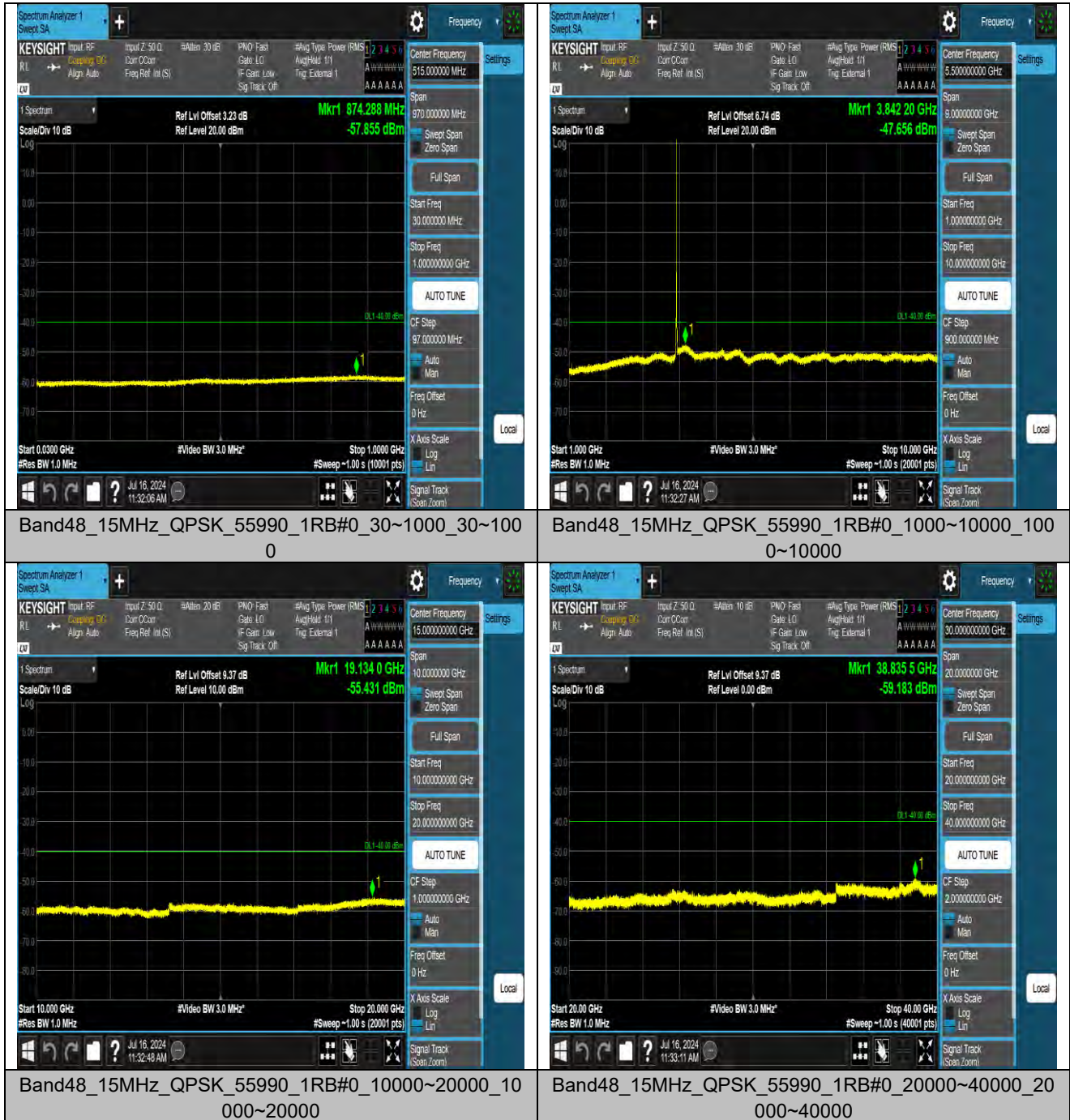


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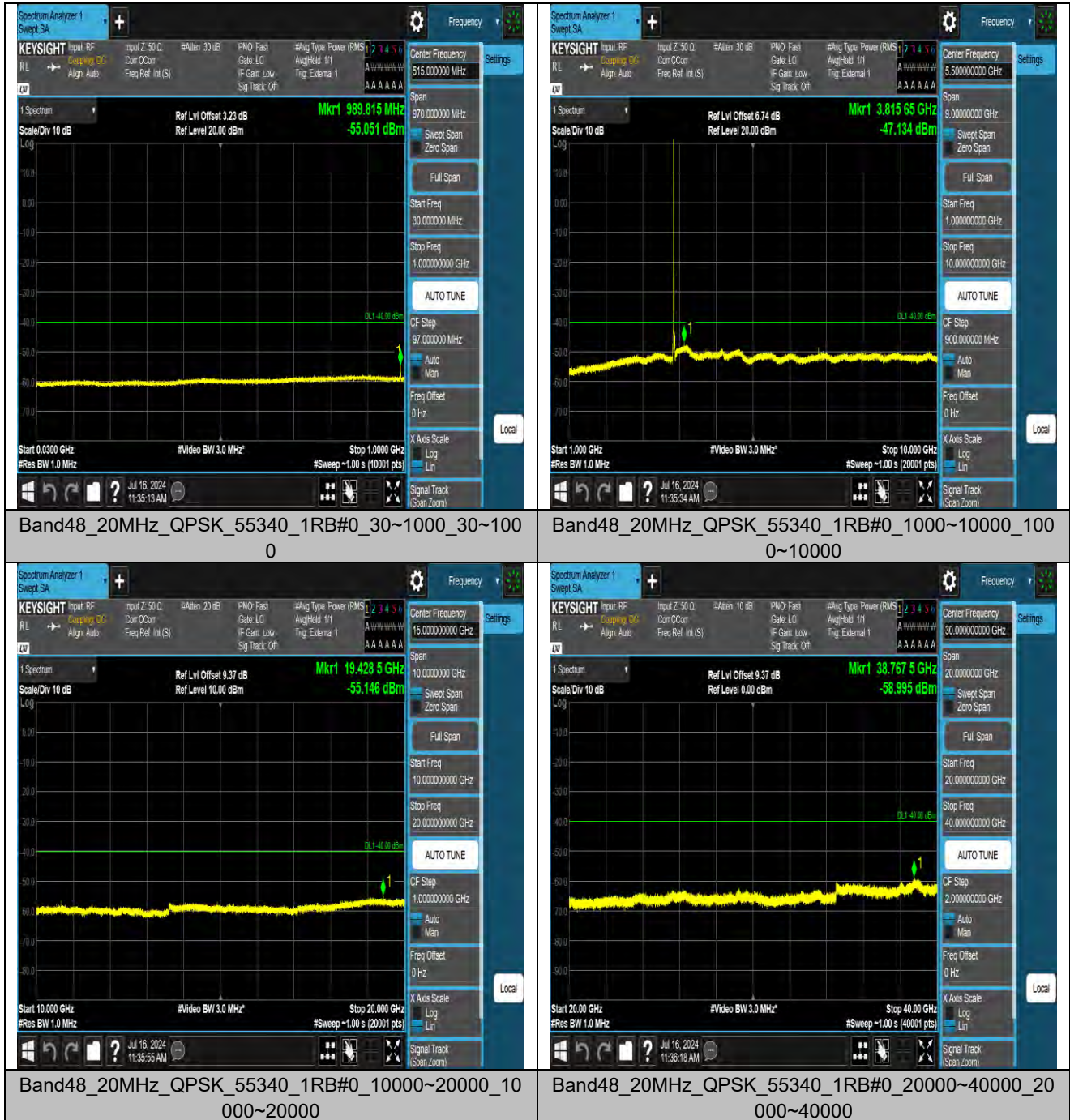
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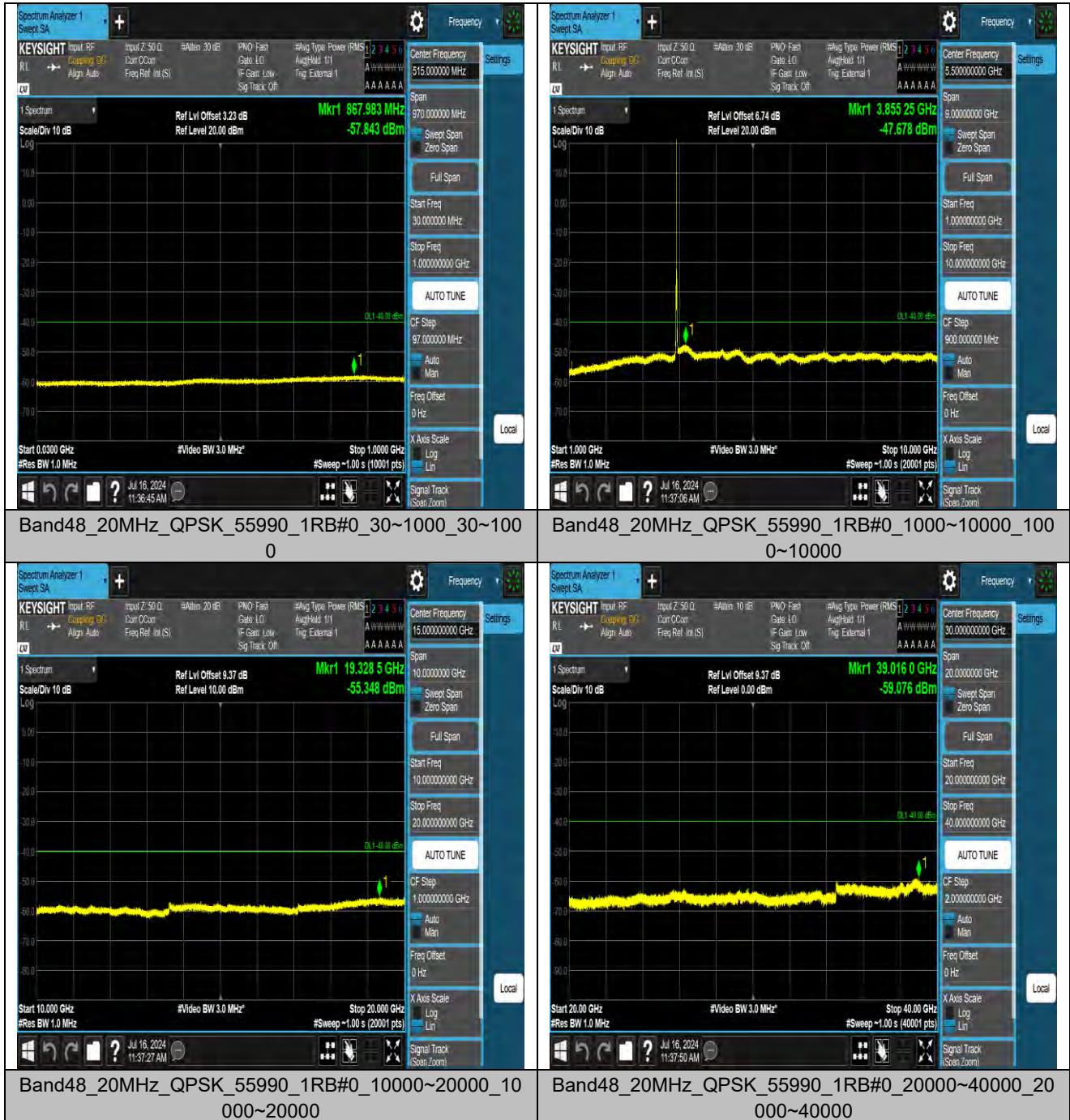
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FREQUENCY STABILITY TEST RESULT

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band4 8	10MHz	QPSK	55290	50RB #0	VN	NT	5260. 00	1.479 606	3550. 54011	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	VL	NT	3920. 00	1.102 672	3550. 54127	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	VH	NT	4920. 00	1.383 966	3550. 54102	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	VN	NT	4300. 00	1.163 735	---	3699. 4713	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	VL	NT	8400. 00	2.273 342	---	3699. 4723	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	VH	NT	4900. 00	1.3261 16	---	3699. 4728	3550- 3700	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band4 8	10MHz	QPSK	55290	50RB #0	NV	-30	5000. 00	1.406 470	3550. 54035	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	-20	3350. 00	0.942 335	3550. 5395	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	-10	4610. 00	1.296 765	3550. 54076	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	0	6290. 00	1.769 339	3550. 54384	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	10	3910. 00	1.099 859	3550. 53981	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	20	6290. 00	1.769 339	3550. 54024	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	30	4900. 00	1.378 340	3550. 53815	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	40	4790. 00	1.347 398	3550. 53854	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	55290	50RB #0	NV	50	4230. 00	1.189 873	3550. 53848	---	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	NV	-30	7550. 00	2.043 302	---	3699. 4753	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	NV	-20	6240. 00	1.688 769	---	3699. 47254	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	NV	-10	6690. 00	1.810 555	---	3699. 47284	3550- 3700	PASS
Band4 8	10MHz	QPSK	56690	50RB #0	NV	0	8130. 00	2.200	---	3699.	3550-	PASS

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8	z			#0			00	271		47568	3700	
Band4 8	10MH z	QPSK	56690	50RB #0	NV	10	7550. 00	2.043 302	---	3699. 47535	3550- 3700	PASS
Band4 8	10MH z	QPSK	56690	50RB #0	NV	20	7800. 00	2.1109 61	---	3699. 4744	3550- 3700	PASS
Band4 8	10MH z	QPSK	56690	50RB #0	NV	30	8360. 00	2.262 517	---	3699. 47701	3550- 3700	PASS
Band4 8	10MH z	QPSK	56690	50RB #0	NV	40	8550. 00	2.313 938	---	3699. 47645	3550- 3700	PASS
Band4 8	10MH z	QPSK	56690	50RB #0	NV	50	7780. 00	2.105 548	---	3699. 47683	3550- 3700	PASS

--END--