

Appendix-A LTE Band 14

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.57	20.92	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.74	21.09	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.66	21.01	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.93	20.28	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.79	20.14	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.02	20.37	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.01	20.36	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.07	19.42	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.9	16.25	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	19.01	16.36	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.89	16.24	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.85	16.2	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.55	20.9	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.49	20.84	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.59	20.94	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.79	20.14	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.93	20.28	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.83	20.18	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.99	20.34	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.88	19.23	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.02	16.37	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.13	16.48	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.96	16.31	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.81	16.16	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.57	20.92	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.48	20.83	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.41	20.76	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.85	20.2	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.93	20.28	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.79	20.14	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.79	20.14	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.91	19.26	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.91	16.26	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.9	16.25	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.03	16.38	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.8	16.15	34.77	PASS

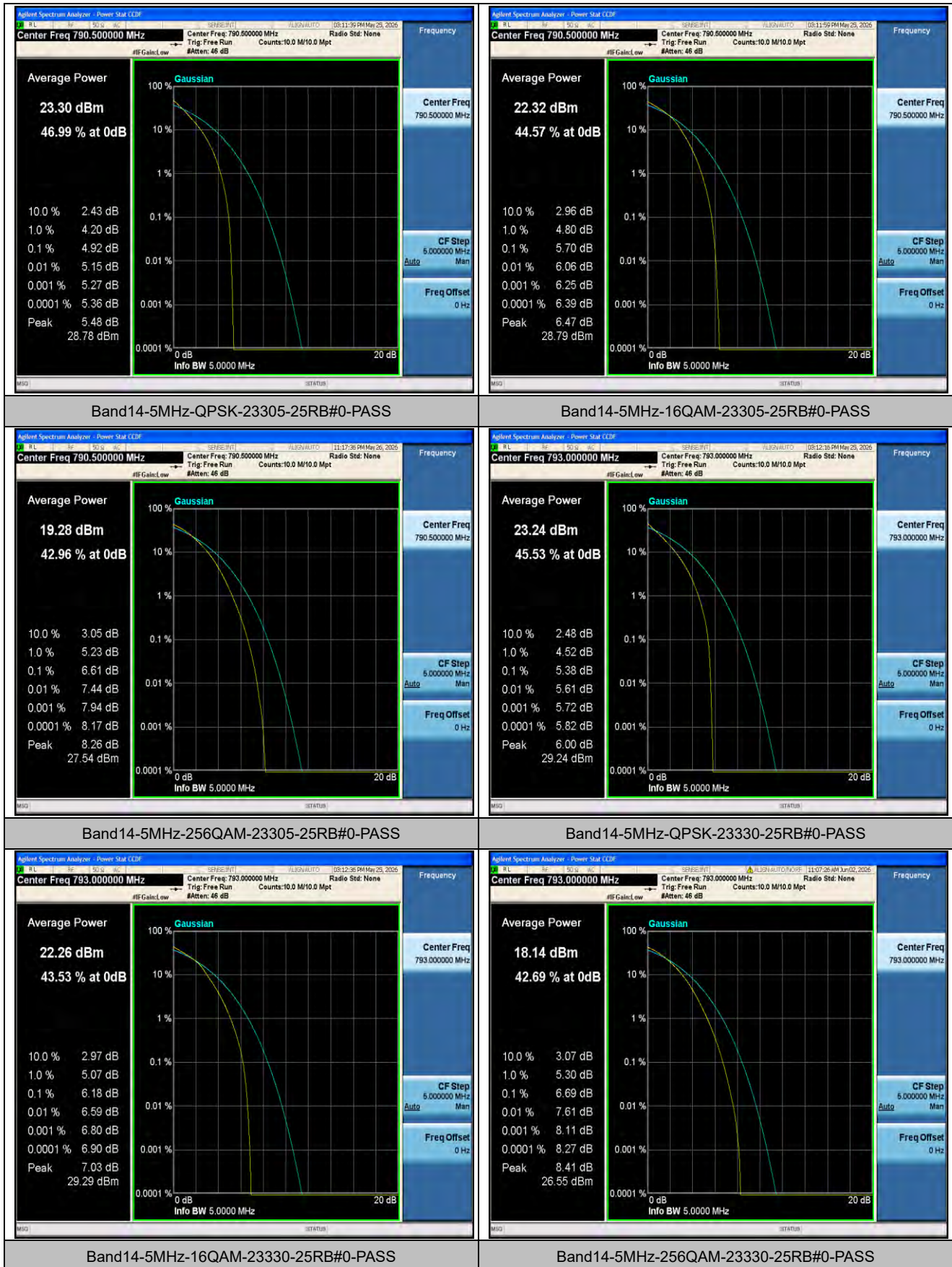
Band14	10MHz	QPSK	23330	1RB#0	23.54	20.89	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.55	20.9	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.43	20.78	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23	20.35	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.94	20.29	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.04	20.39	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.82	20.17	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.97	19.32	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	19.13	16.48	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	18.84	16.19	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.92	16.27	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.97	16.32	34.77	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.92	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	5.70	13	PASS
Band14	5MHz	256QAM	23305	25RB#0	6.61	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.38	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.18	13	PASS
Band14	5MHz	256QAM	23330	25RB#0	6.69	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.54	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.36	13	PASS
Band14	5MHz	256QAM	23355	25RB#0	6.86	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.46	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.20	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.71	13	PASS

Test Graphs





Band14-5MHz-QPSK-23355-25RB#0-PASS



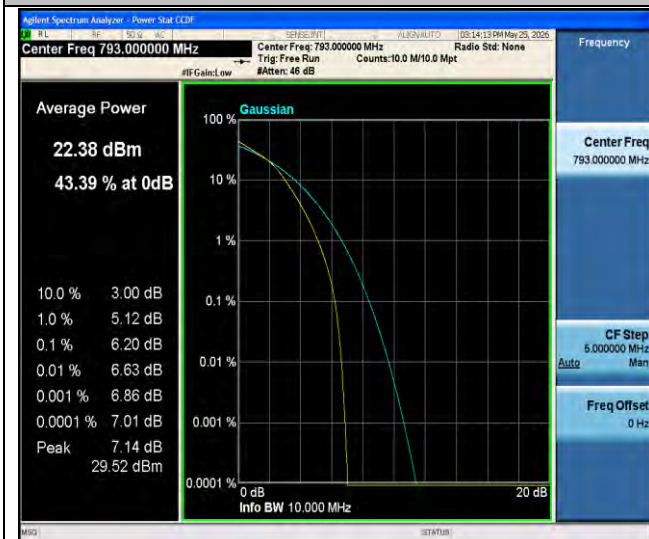
Band14-5MHz-16QAM-23355-25RB#0-PASS



Band14-5MHz-256QAM-23355-25RB#0-PASS



Band14-10MHz-QPSK-23330-50RB#0-PASS



Band14-10MHz-16QAM-23330-50RB#0-PASS



Band14-10MHz-256QAM-23330-50RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

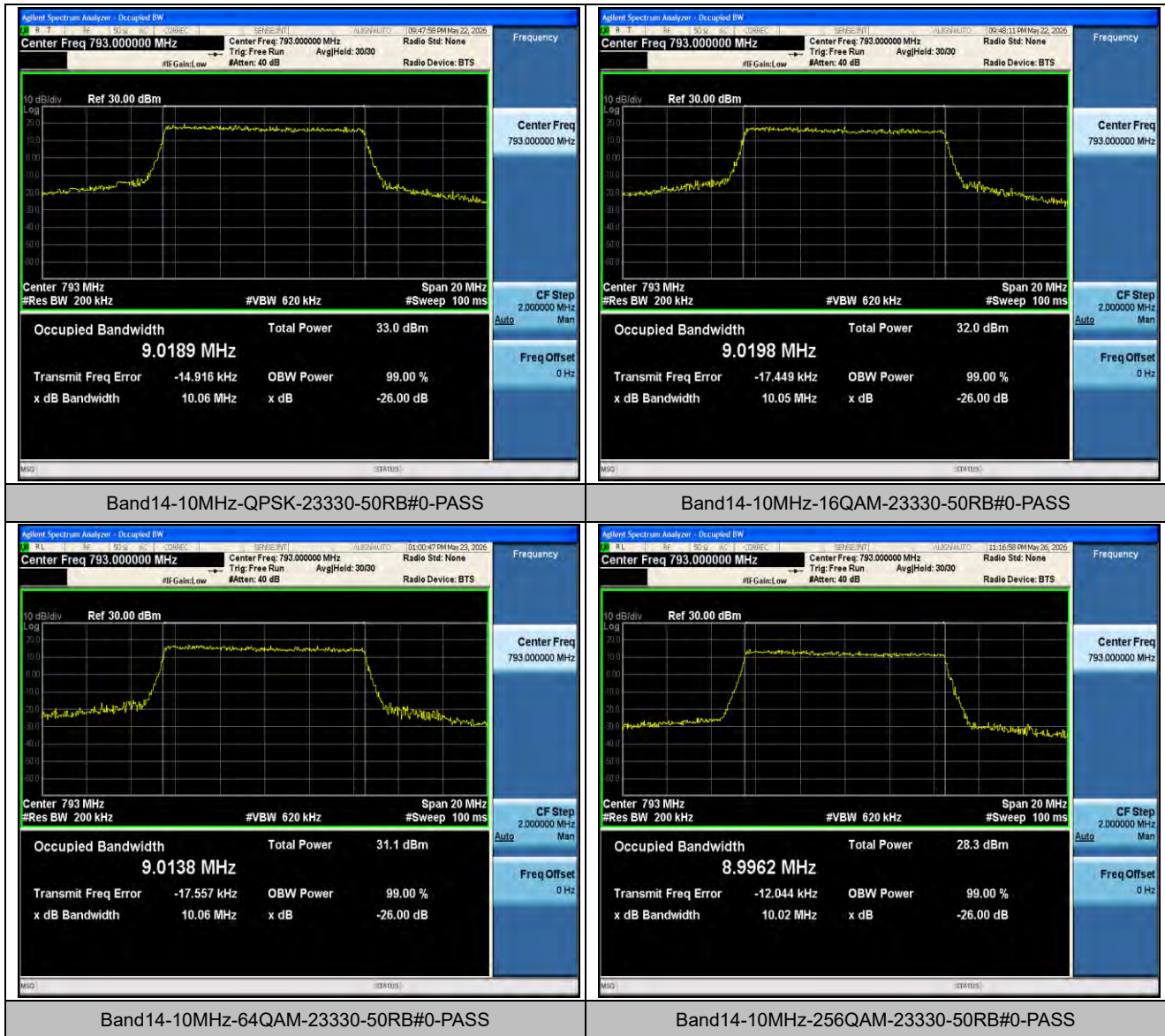
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5143	5.172	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5025	5.187	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.5116	5.191	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.5025	5.142	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5179	5.141	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5160	5.237	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.5108	5.159	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.5124	5.112	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5132	5.216	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5059	5.179	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.5151	5.230	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.5076	5.147	PASS
Band14	10MHz	QPSK	23330	50RB#0	9.0189	10.06	PASS
Band14	10MHz	16QAM	23330	50RB#0	9.0198	10.05	PASS
Band14	10MHz	64QAM	23330	50RB#0	9.0138	10.06	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.9962	10.02	PASS

Test Graphs

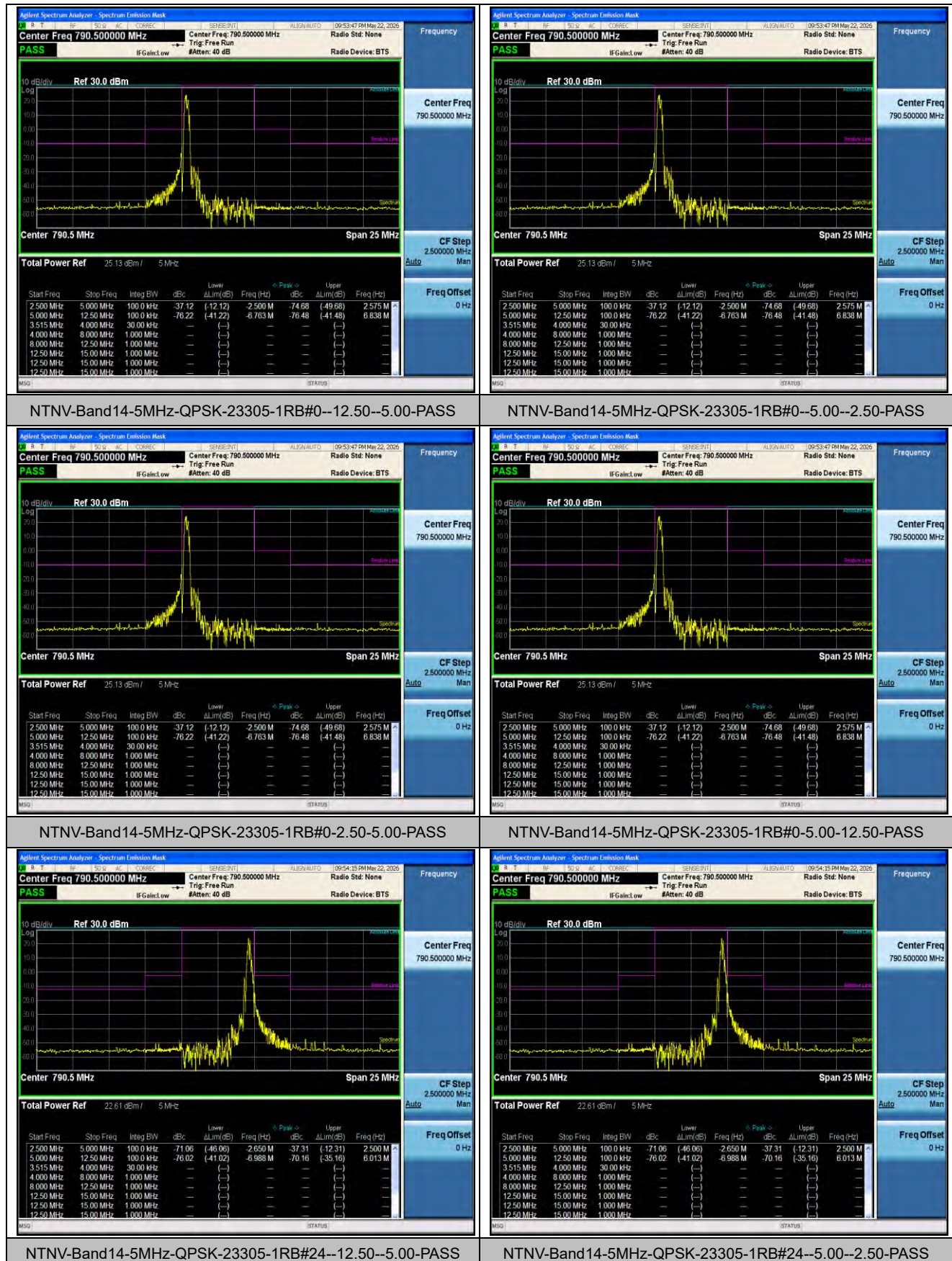


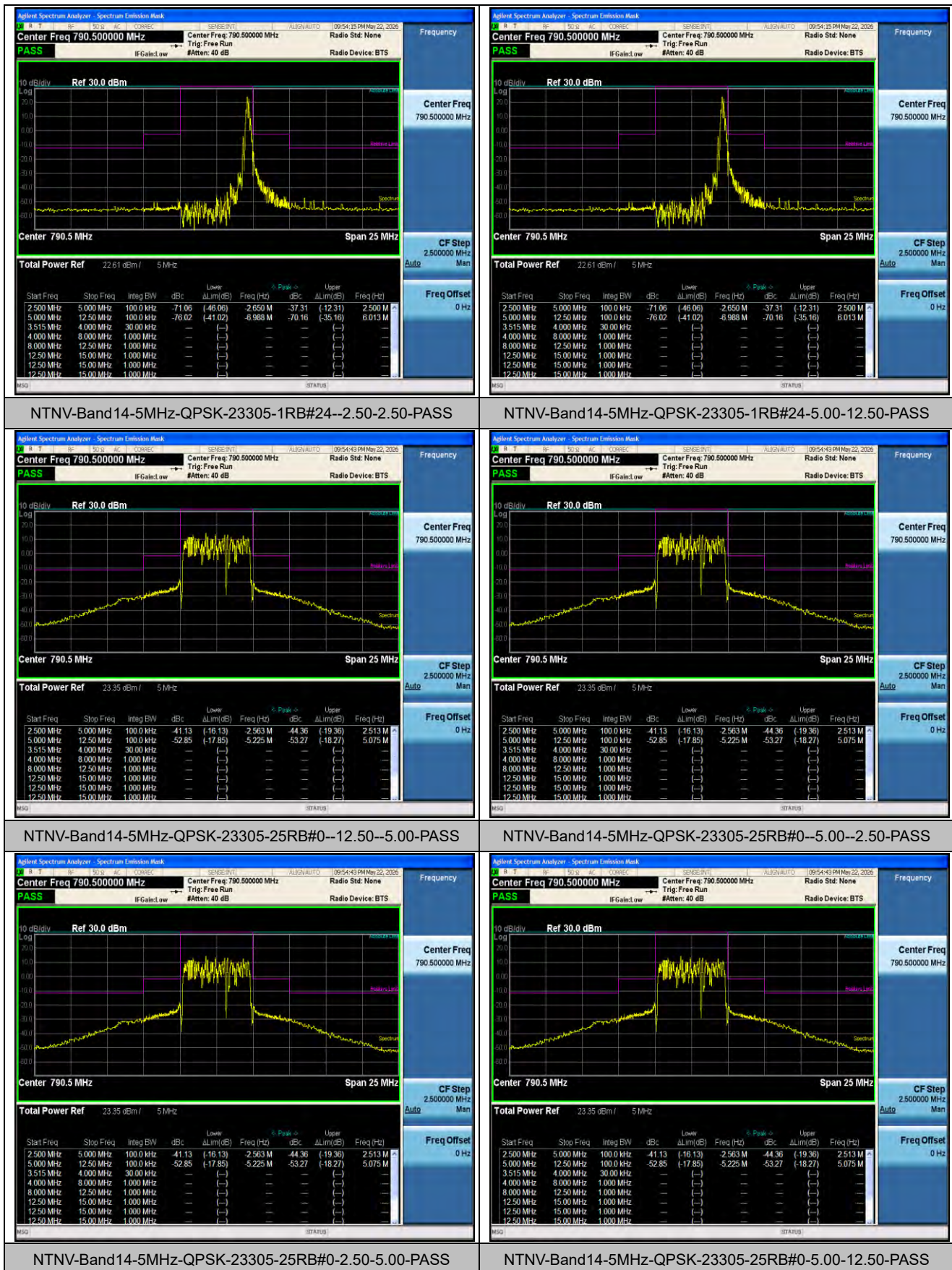


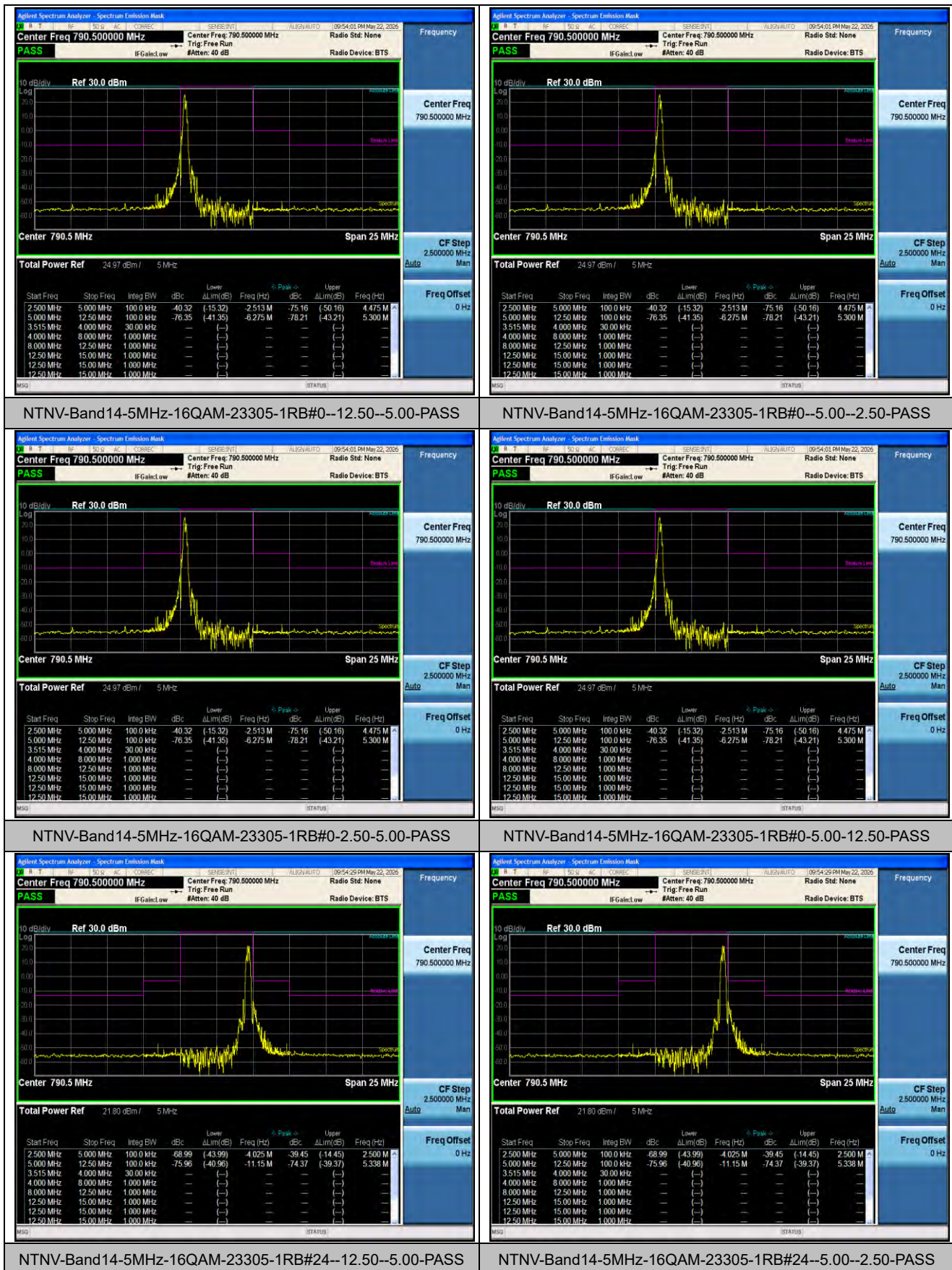


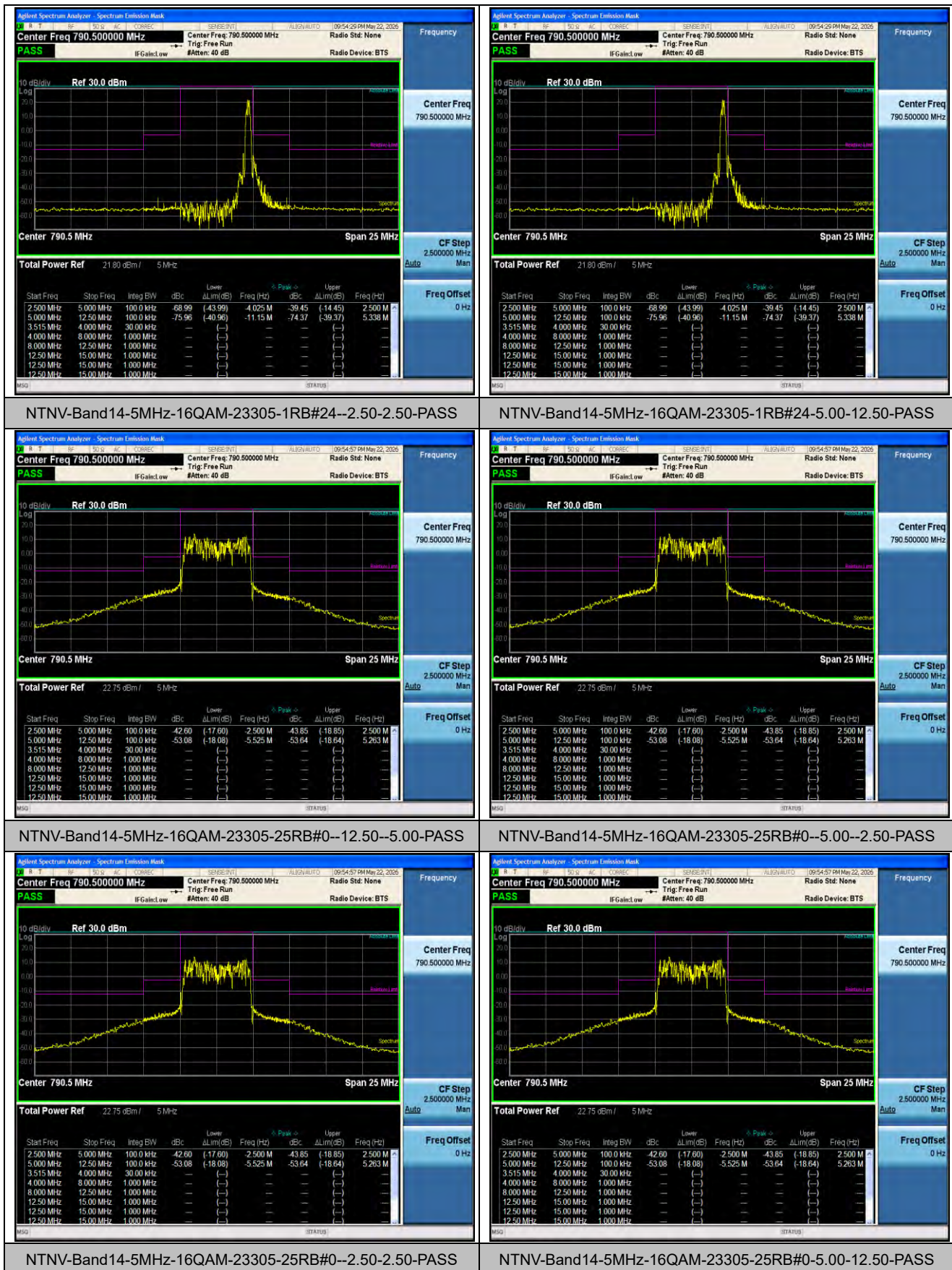
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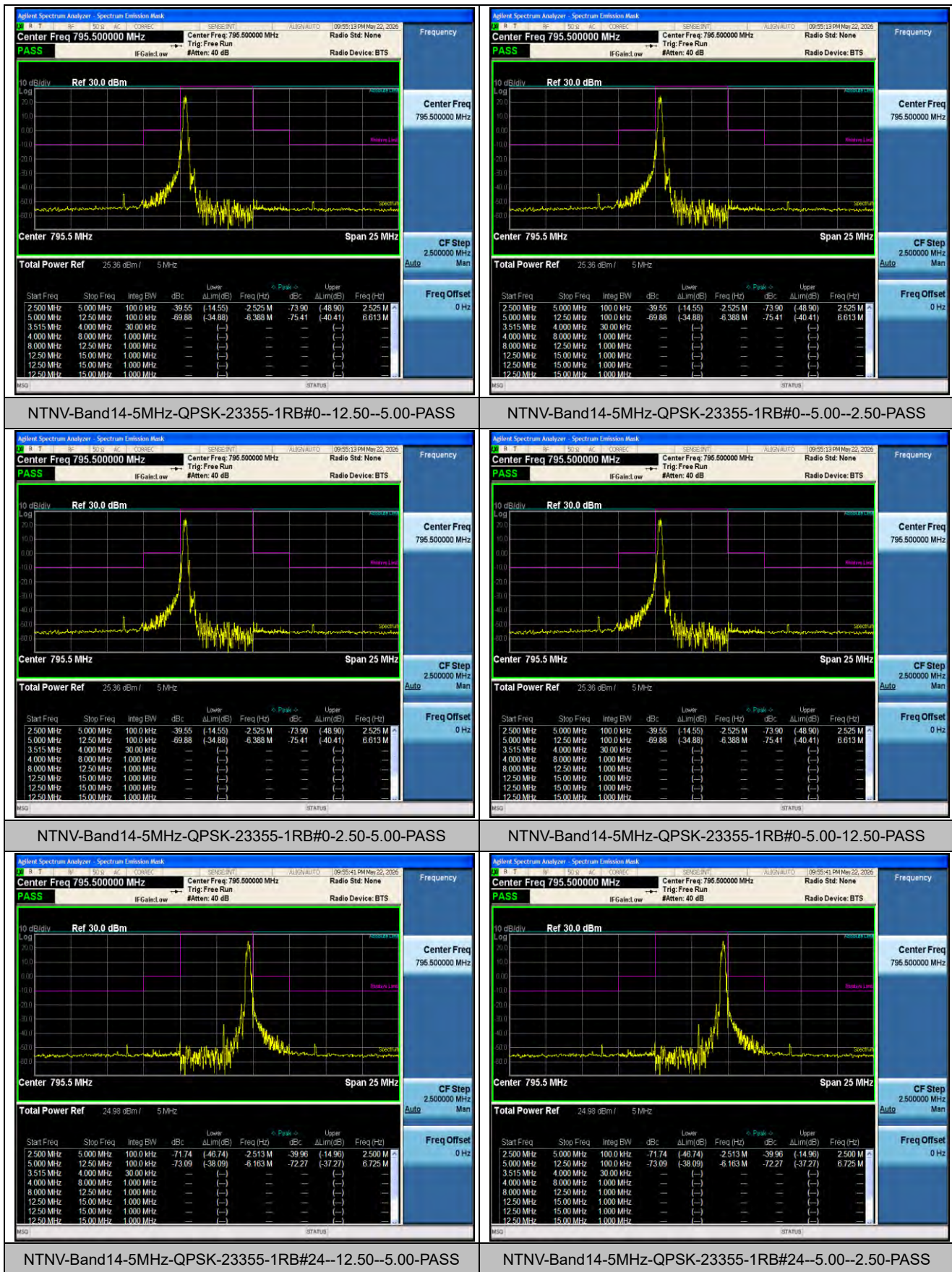
Test Graphs

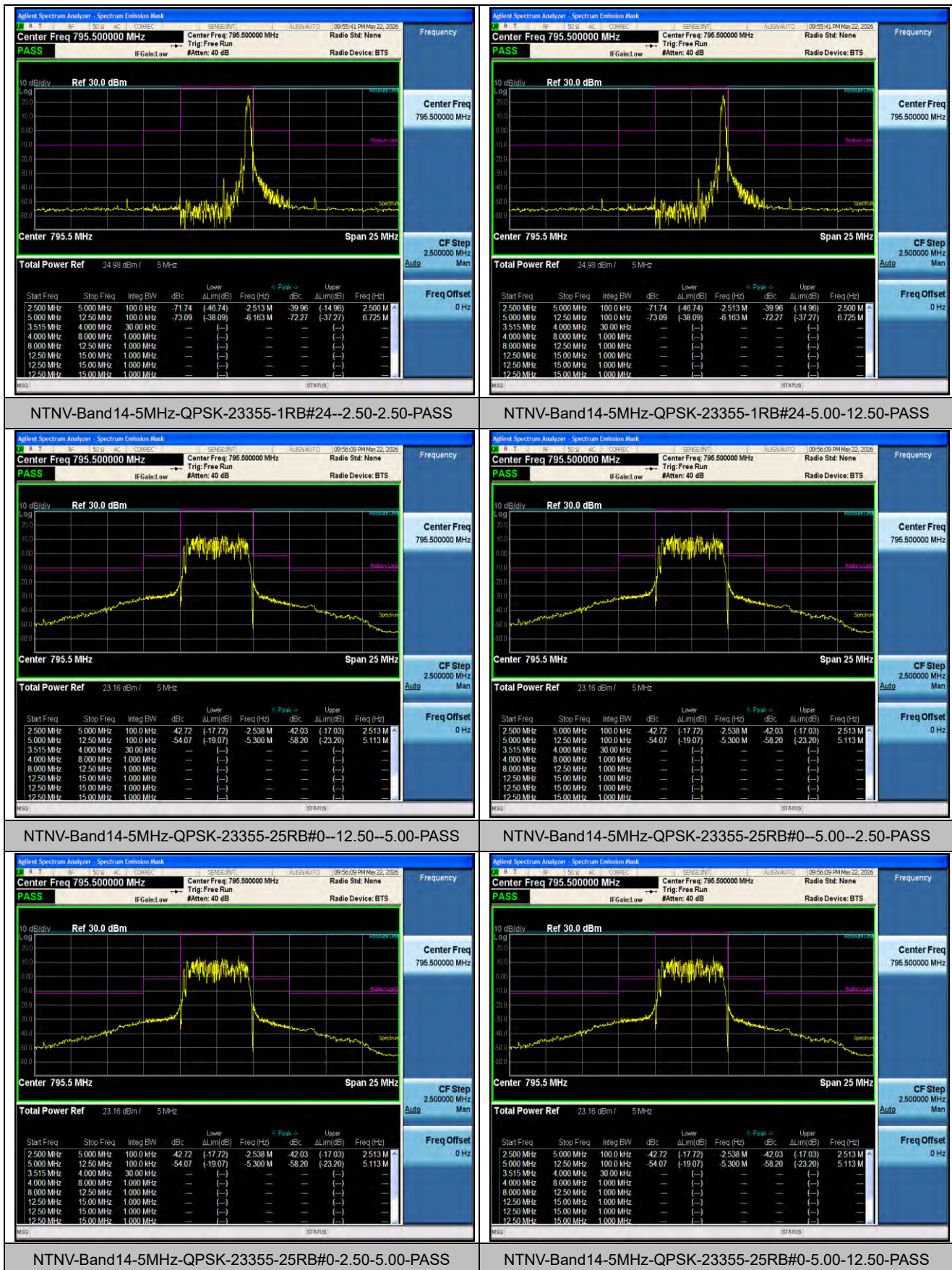


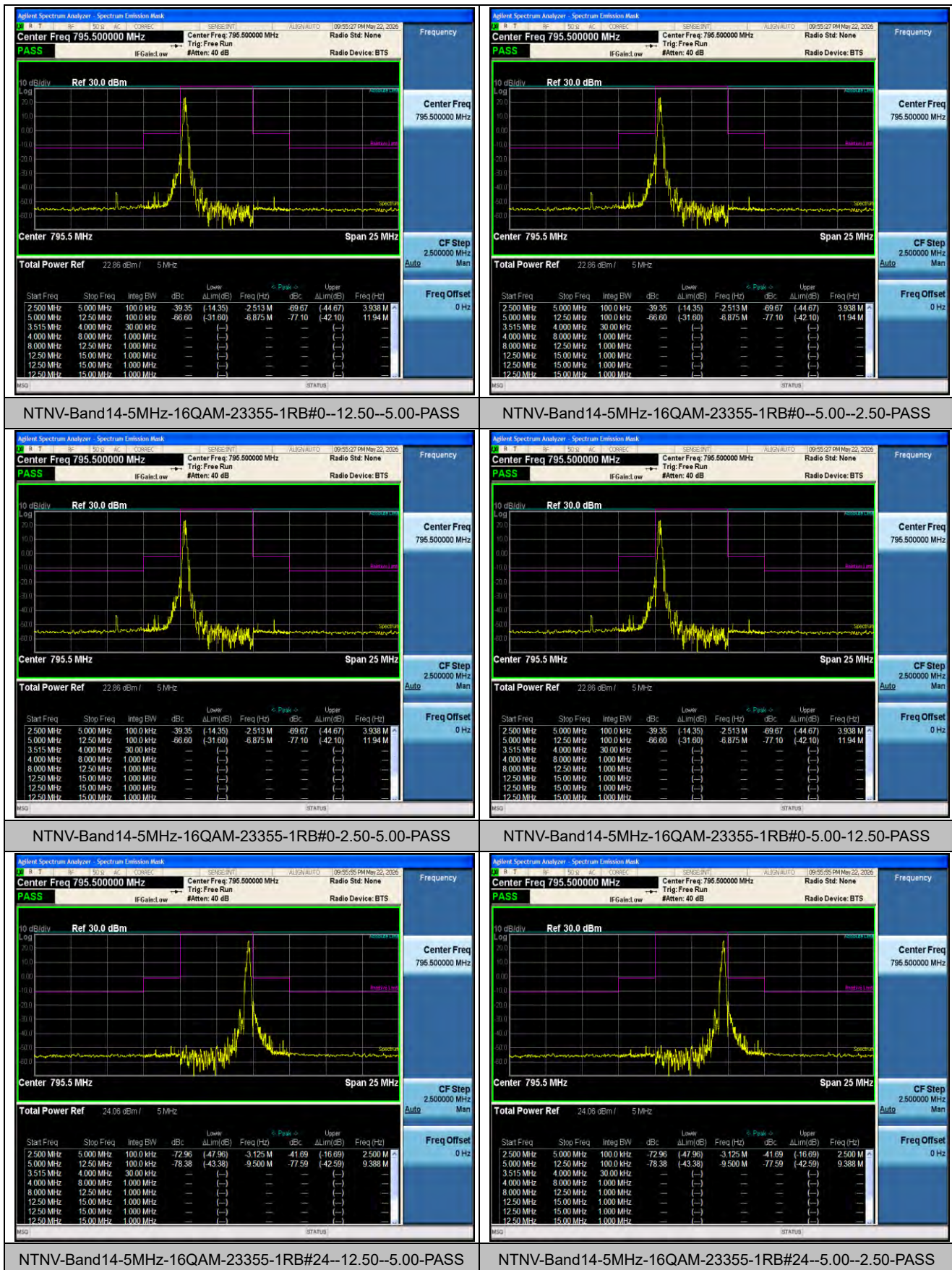






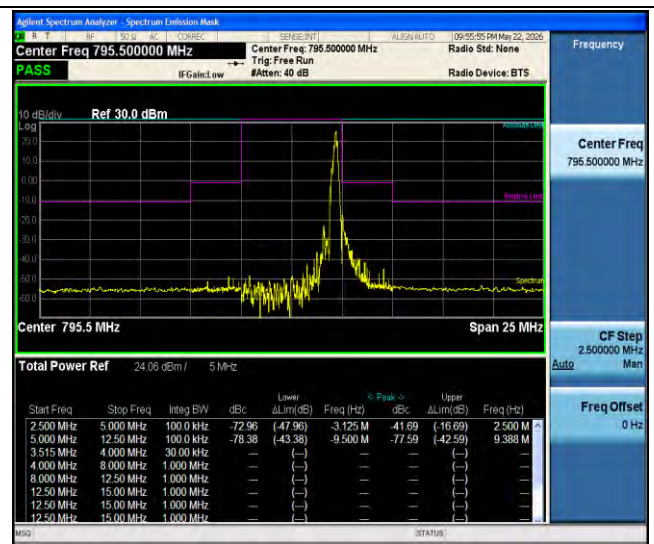








NTVN-Band14-5MHz-16QAM-23355-1RB#24--2.50-2.50-PASS



NTVN-Band14-5MHz-16QAM-23355-1RB#24-5.00-12.50-PASS



NTVN-Band14-5MHz-16QAM-23355-25RB#0--12.50--5.00-PASS



NTVN-Band14-5MHz-16QAM-23355-25RB#0--5.00--2.50-PASS



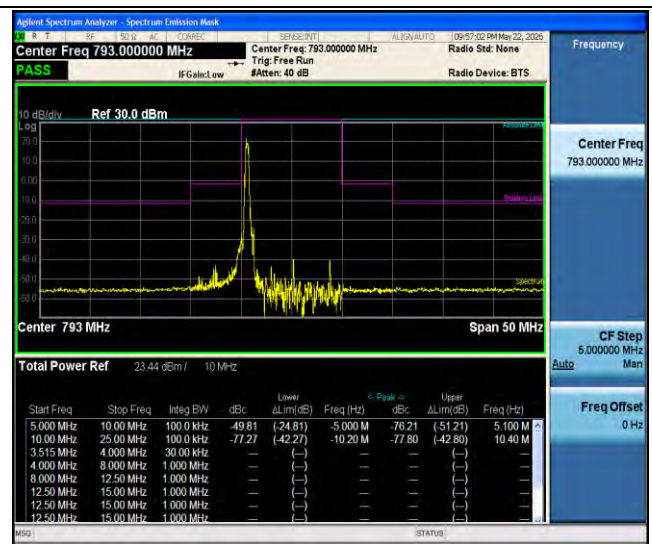
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NTVN-Band14-5MHz-16QAM-23355-25RB#0-5.00-12.50-PASS



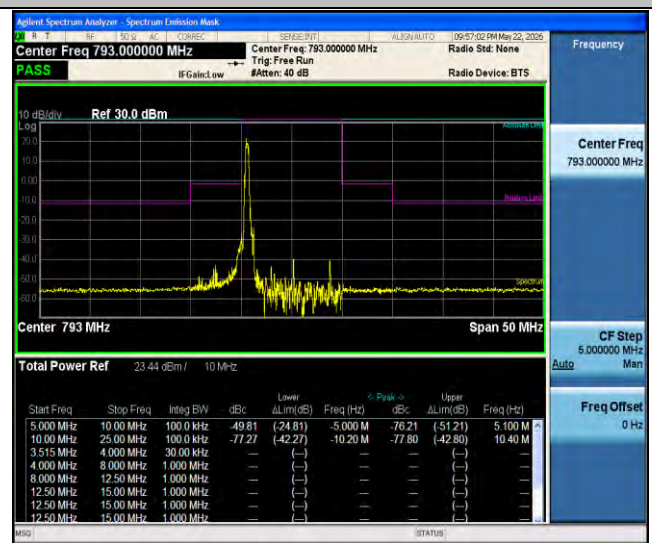
NTNV-Band14-10MHz-QPSK-23330-1RB#0--25.00--10.00-PASS



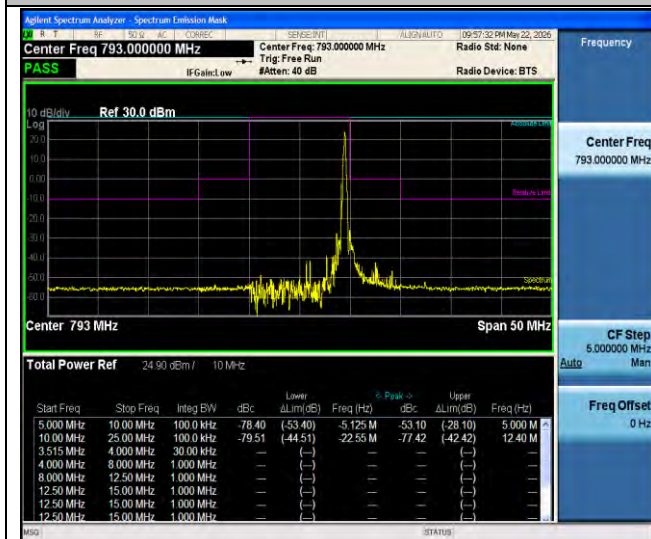
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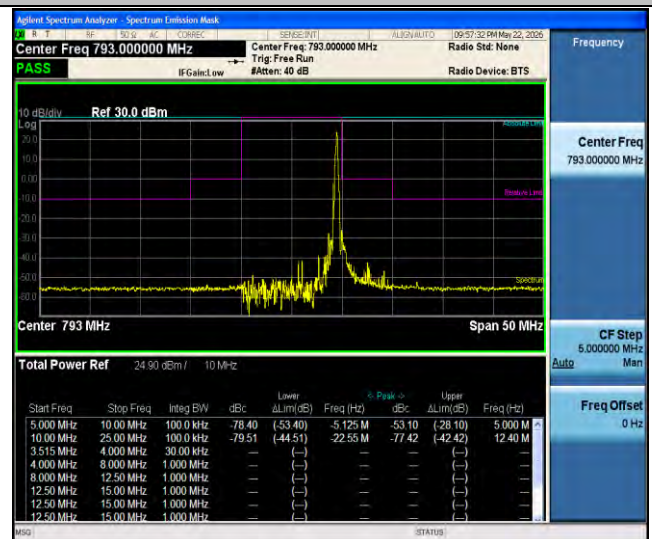
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NTNV-Band14-10MHz-QPSK-23330-1RB#0-10.00-25.00-PASS



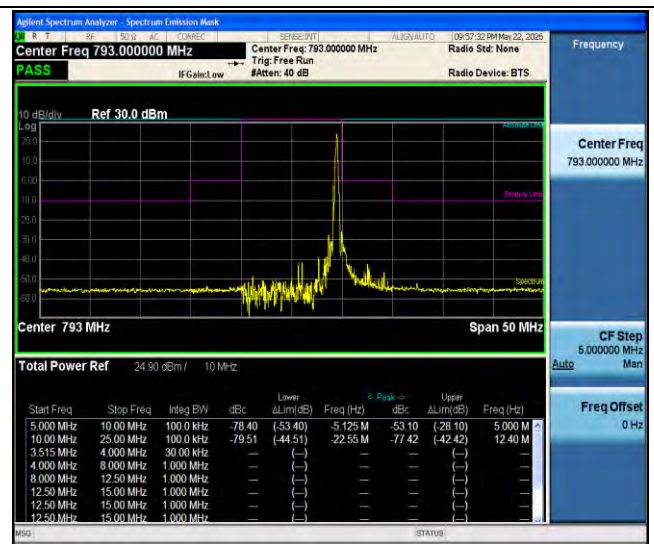
NTNV-Band14-10MHz-QPSK-23330-1RB#49--25.00--10.00-PASS



NTNV-Band14-10MHz-QPSK-23330-1RB#49--10.00--5.00-PASS



NTNV-Band14-10MHz-QPSK-23330-1RB#49-5.00-5.00-PASS



NTNV-Band14-10MHz-QPSK-23330-1RB#49-10.00-25.00-PASS



NTNV-Band14-10MHz-QPSK-23330-50RB#0-25.00-10.00-PASS



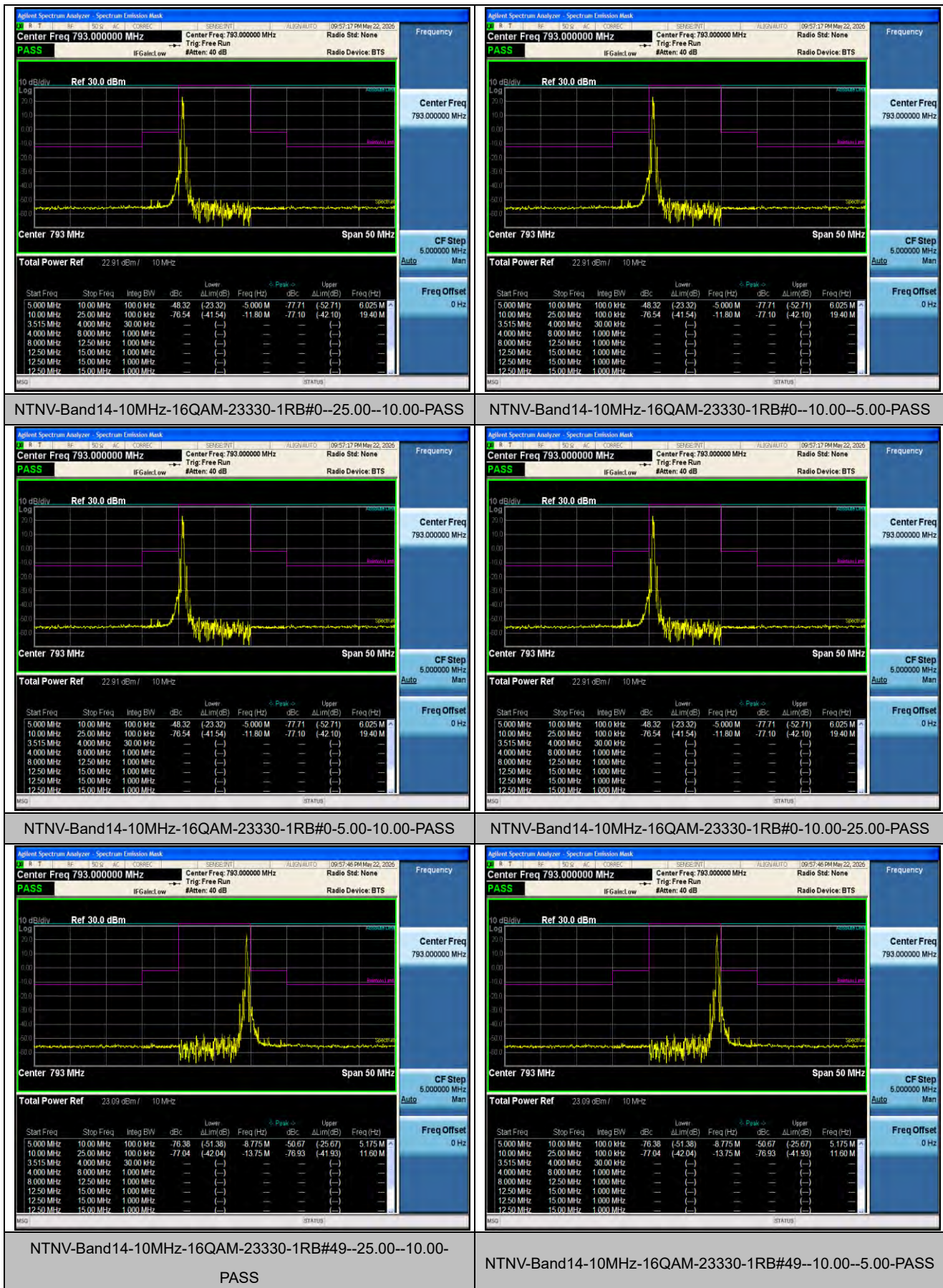
NTNV-Band14-10MHz-QPSK-23330-50RB#0-10.00-5.00-PASS



NTNV-Band14-10MHz-QPSK-23330-50RB#0-5.00-10.00-PASS



NTNV-Band14-10MHz-QPSK-23330-50RB#0-10.00-25.00-PASS





NTNV-Band14-10MHz-16QAM-23330-1RB#49-5.00-10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-1RB#49-10.00-25.00-PASS



NTNV-Band14-10MHz-16QAM-23330-50RB#0--25.00--10.00-PASS



NTNV-Band14-10MHz-16QAM-23330-50RB#0--10.00--5.00-PASS



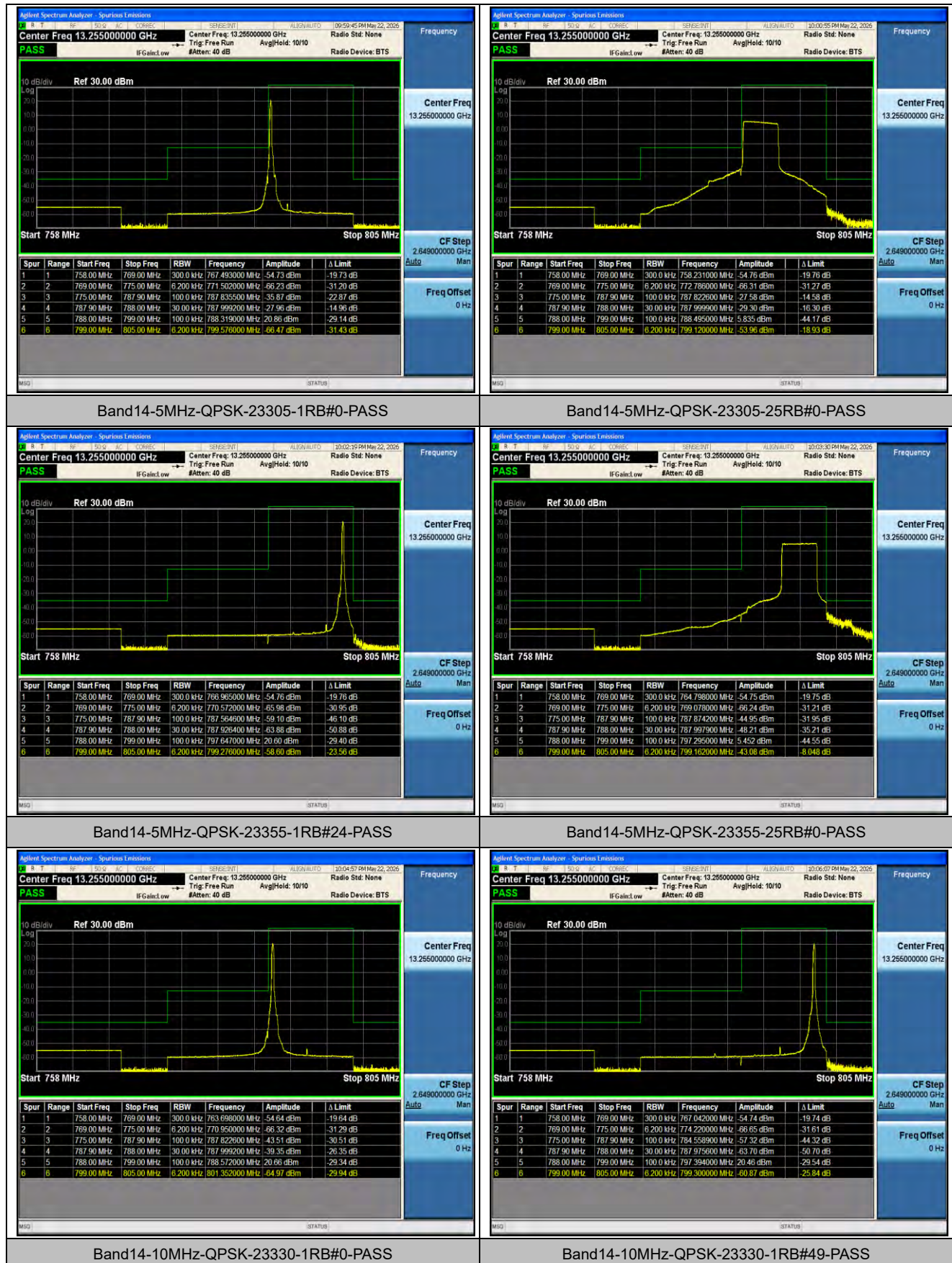
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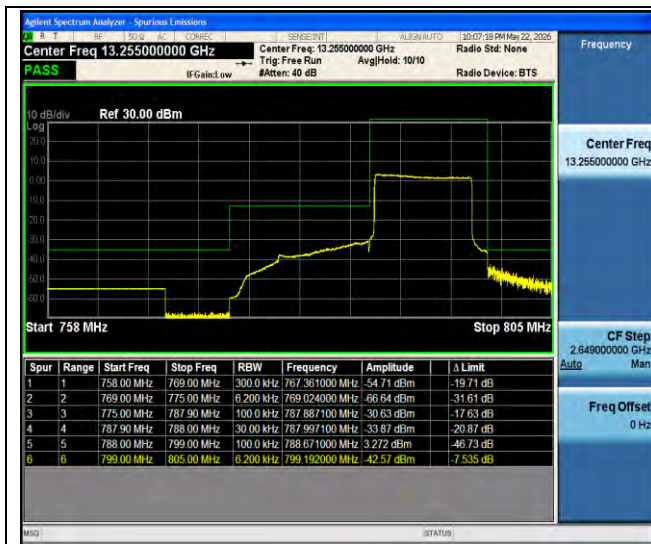


NTNV-Band14-10MHz-16QAM-23330-50RB#0-10.00-25.00-PASS

Band Edge

Test Graphs

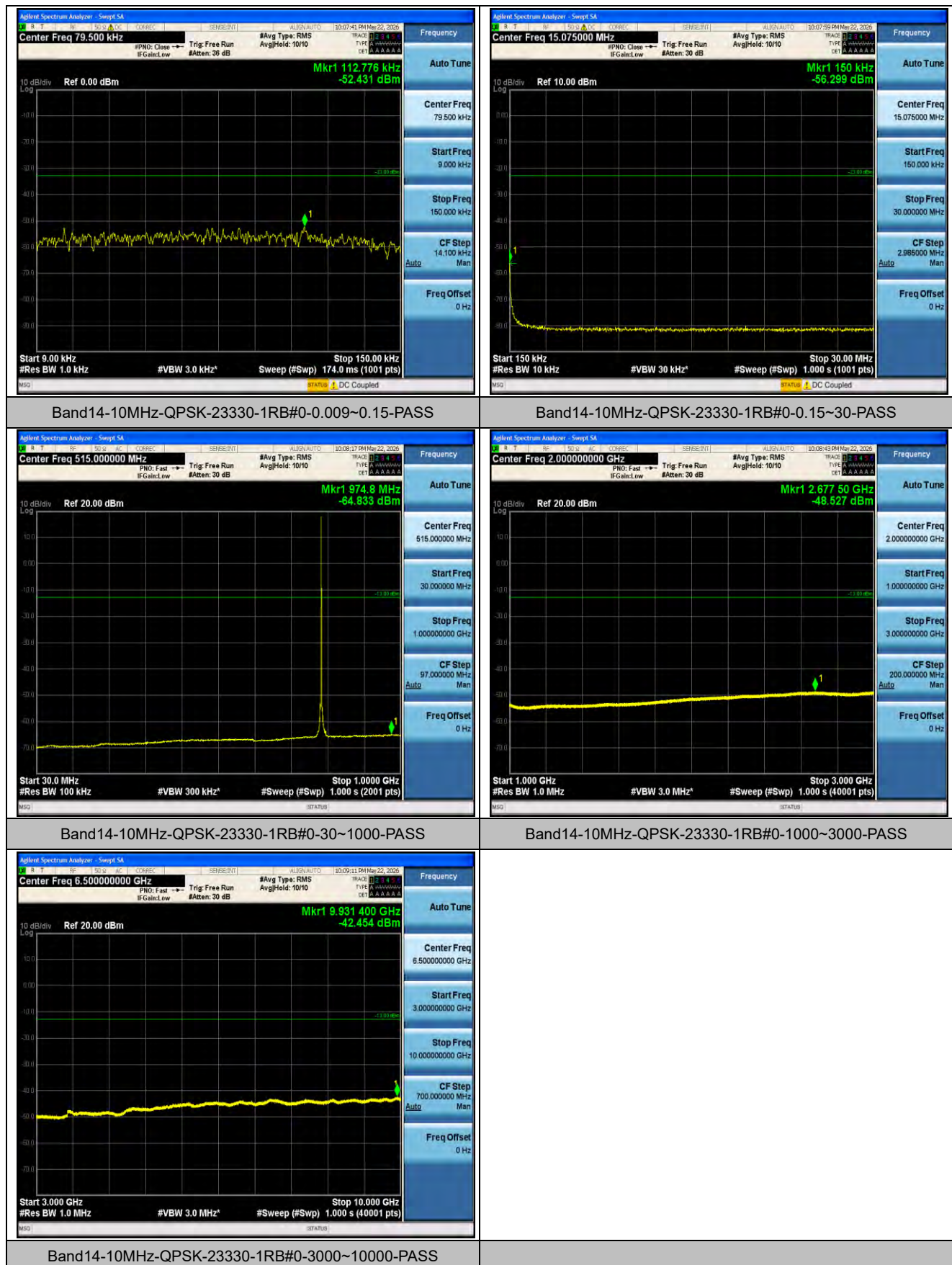




Band14-10MHz-QPSK-23330-50RB#0-PASS

Conducted Spurious Emission

Test Graphs



Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-2.20	-0.002774	PASS
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-1.80	-0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-2.70	-0.003405	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-2.50	-0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-1.80	-0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.50	-0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-2.50	-0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-2.40	-0.003026	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.40	-0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-2.50	-0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-2.80	-0.003531	PASS

~The End~