

Appendix-A LTE Band 66

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	23.42	24.92	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	23.61	25.11	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	23.60	25.1	30	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	22.65	24.15	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.22	23.72	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.36	23.86	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	22.85	24.35	30	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.81	23.31	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	23.94	25.44	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.97	25.47	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	23.88	25.38	30	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.97	24.47	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	22.92	24.42	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.81	24.31	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	22.98	24.48	30	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	22.07	23.57	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	23.71	25.21	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	23.69	25.19	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	23.60	25.1	30	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	22.90	24.4	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	22.98	24.48	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.93	24.43	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	22.51	24.01	30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	21.96	23.46	30	PASS
Band66	3MHz	QPSK	131987	1RB#0	23.24	24.74	30	PASS
Band66	3MHz	QPSK	131987	1RB#8	23.42	24.92	30	PASS
Band66	3MHz	QPSK	131987	1RB#14	23.33	24.83	30	PASS
Band66	3MHz	QPSK	131987	15RB#0	22.61	24.11	30	PASS
Band66	3MHz	16QAM	131987	1RB#0	22.75	24.25	30	PASS
Band66	3MHz	16QAM	131987	1RB#8	22.82	24.32	30	PASS
Band66	3MHz	16QAM	131987	1RB#14	22.16	23.66	30	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.54	23.04	30	PASS
Band66	3MHz	QPSK	132322	1RB#0	23.53	25.03	30	PASS
Band66	3MHz	QPSK	132322	1RB#8	23.58	25.08	30	PASS
Band66	3MHz	QPSK	132322	1RB#14	23.91	25.41	30	PASS
Band66	3MHz	QPSK	132322	15RB#0	22.98	24.48	30	PASS
Band66	3MHz	16QAM	132322	1RB#0	22.74	24.24	30	PASS

Band66	3MHz	16QAM	132322	1RB#8	22.62	24.12	30	PASS
Band66	3MHz	16QAM	132322	1RB#14	22.96	24.46	30	PASS
Band66	3MHz	16QAM	132322	15RB#0	21.97	23.47	30	PASS
Band66	3MHz	QPSK	132657	1RB#0	23.52	25.02	30	PASS
Band66	3MHz	QPSK	132657	1RB#8	23.61	25.11	30	PASS
Band66	3MHz	QPSK	132657	1RB#14	23.64	25.14	30	PASS
Band66	3MHz	QPSK	132657	15RB#0	22.80	24.3	30	PASS
Band66	3MHz	16QAM	132657	1RB#0	22.64	24.14	30	PASS
Band66	3MHz	16QAM	132657	1RB#8	23.07	24.57	30	PASS
Band66	3MHz	16QAM	132657	1RB#14	22.65	24.15	30	PASS
Band66	3MHz	16QAM	132657	15RB#0	21.81	23.31	30	PASS
Band66	5MHz	QPSK	131997	1RB#0	23.40	24.9	30	PASS
Band66	5MHz	QPSK	131997	1RB#12	23.56	25.06	30	PASS
Band66	5MHz	QPSK	131997	1RB#24	23.47	24.97	30	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.71	24.21	30	PASS
Band66	5MHz	16QAM	131997	1RB#0	22.51	24.01	30	PASS
Band66	5MHz	16QAM	131997	1RB#12	22.47	23.97	30	PASS
Band66	5MHz	16QAM	131997	1RB#24	22.97	24.47	30	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.58	23.08	30	PASS
Band66	5MHz	QPSK	132322	1RB#0	23.83	25.33	30	PASS
Band66	5MHz	QPSK	132322	1RB#12	24.32	25.82	30	PASS
Band66	5MHz	QPSK	132322	1RB#24	23.89	25.39	30	PASS
Band66	5MHz	QPSK	132322	25RB#0	23.05	24.55	30	PASS
Band66	5MHz	16QAM	132322	1RB#0	22.79	24.29	30	PASS
Band66	5MHz	16QAM	132322	1RB#12	22.88	24.38	30	PASS
Band66	5MHz	16QAM	132322	1RB#24	23.23	24.73	30	PASS
Band66	5MHz	16QAM	132322	25RB#0	22.16	23.66	30	PASS
Band66	5MHz	QPSK	132647	1RB#0	23.72	25.22	30	PASS
Band66	5MHz	QPSK	132647	1RB#12	24.19	25.69	30	PASS
Band66	5MHz	QPSK	132647	1RB#24	23.63	25.13	30	PASS
Band66	5MHz	QPSK	132647	25RB#0	22.91	24.41	30	PASS
Band66	5MHz	16QAM	132647	1RB#0	23.04	24.54	30	PASS
Band66	5MHz	16QAM	132647	1RB#12	22.55	24.05	30	PASS
Band66	5MHz	16QAM	132647	1RB#24	22.60	24.1	30	PASS
Band66	5MHz	16QAM	132647	25RB#0	21.91	23.41	30	PASS
Band66	10MHz	QPSK	132022	1RB#0	23.73	25.23	30	PASS
Band66	10MHz	QPSK	132022	1RB#24	23.73	25.23	30	PASS
Band66	10MHz	QPSK	132022	1RB#49	23.79	25.29	30	PASS
Band66	10MHz	QPSK	132022	50RB#0	22.81	24.31	30	PASS
Band66	10MHz	16QAM	132022	1RB#0	22.82	24.32	30	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.57	24.07	30	PASS
Band66	10MHz	16QAM	132022	1RB#49	22.74	24.24	30	PASS
Band66	10MHz	16QAM	132022	50RB#0	21.88	23.38	30	PASS
Band66	10MHz	QPSK	132322	1RB#0	24.12	25.62	30	PASS
Band66	10MHz	QPSK	132322	1RB#24	24.36	25.86	30	PASS

Band66	10MHz	QPSK	132322	1RB#49	24.08	25.58	30	PASS
Band66	10MHz	QPSK	132322	50RB#0	23.13	24.63	30	PASS
Band66	10MHz	16QAM	132322	1RB#0	23.25	24.75	30	PASS
Band66	10MHz	16QAM	132322	1RB#24	23.70	25.2	30	PASS
Band66	10MHz	16QAM	132322	1RB#49	23.31	24.81	30	PASS
Band66	10MHz	16QAM	132322	50RB#0	22.00	23.5	30	PASS
Band66	10MHz	QPSK	132622	1RB#0	23.77	25.27	30	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.89	25.39	30	PASS
Band66	10MHz	QPSK	132622	1RB#49	23.69	25.19	30	PASS
Band66	10MHz	QPSK	132622	50RB#0	22.94	24.44	30	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.54	24.04	30	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.65	24.15	30	PASS
Band66	10MHz	16QAM	132622	1RB#49	22.96	24.46	30	PASS
Band66	10MHz	16QAM	132622	50RB#0	21.94	23.44	30	PASS
Band66	15MHz	QPSK	132047	1RB#0	23.42	24.92	30	PASS
Band66	15MHz	QPSK	132047	1RB#38	23.64	25.14	30	PASS
Band66	15MHz	QPSK	132047	1RB#74	23.70	25.2	30	PASS
Band66	15MHz	QPSK	132047	75RB#0	22.81	24.31	30	PASS
Band66	15MHz	16QAM	132047	1RB#0	22.48	23.98	30	PASS
Band66	15MHz	16QAM	132047	1RB#38	22.42	23.92	30	PASS
Band66	15MHz	16QAM	132047	1RB#74	22.61	24.11	30	PASS
Band66	15MHz	16QAM	132047	75RB#0	21.85	23.35	30	PASS
Band66	15MHz	QPSK	132322	1RB#0	23.93	25.43	30	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.96	25.46	30	PASS
Band66	15MHz	QPSK	132322	1RB#74	23.88	25.38	30	PASS
Band66	15MHz	QPSK	132322	75RB#0	23.17	24.67	30	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.92	24.42	30	PASS
Band66	15MHz	16QAM	132322	1RB#38	23.24	24.74	30	PASS
Band66	15MHz	16QAM	132322	1RB#74	22.99	24.49	30	PASS
Band66	15MHz	16QAM	132322	75RB#0	22.02	23.52	30	PASS
Band66	15MHz	QPSK	132597	1RB#0	23.63	25.13	30	PASS
Band66	15MHz	QPSK	132597	1RB#38	23.75	25.25	30	PASS
Band66	15MHz	QPSK	132597	1RB#74	24.04	25.54	30	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.90	24.4	30	PASS
Band66	15MHz	16QAM	132597	1RB#0	22.59	24.09	30	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.64	24.14	30	PASS
Band66	15MHz	16QAM	132597	1RB#74	23.42	24.92	30	PASS
Band66	15MHz	16QAM	132597	75RB#0	21.83	23.33	30	PASS
Band66	20MHz	QPSK	132072	1RB#0	23.78	25.28	30	PASS
Band66	20MHz	QPSK	132072	1RB#49	23.86	25.36	30	PASS
Band66	20MHz	QPSK	132072	1RB#99	23.67	25.17	30	PASS
Band66	20MHz	QPSK	132072	100RB#0	22.93	24.43	30	PASS
Band66	20MHz	16QAM	132072	1RB#0	22.29	23.79	30	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.68	24.18	30	PASS
Band66	20MHz	16QAM	132072	1RB#99	22.61	24.11	30	PASS

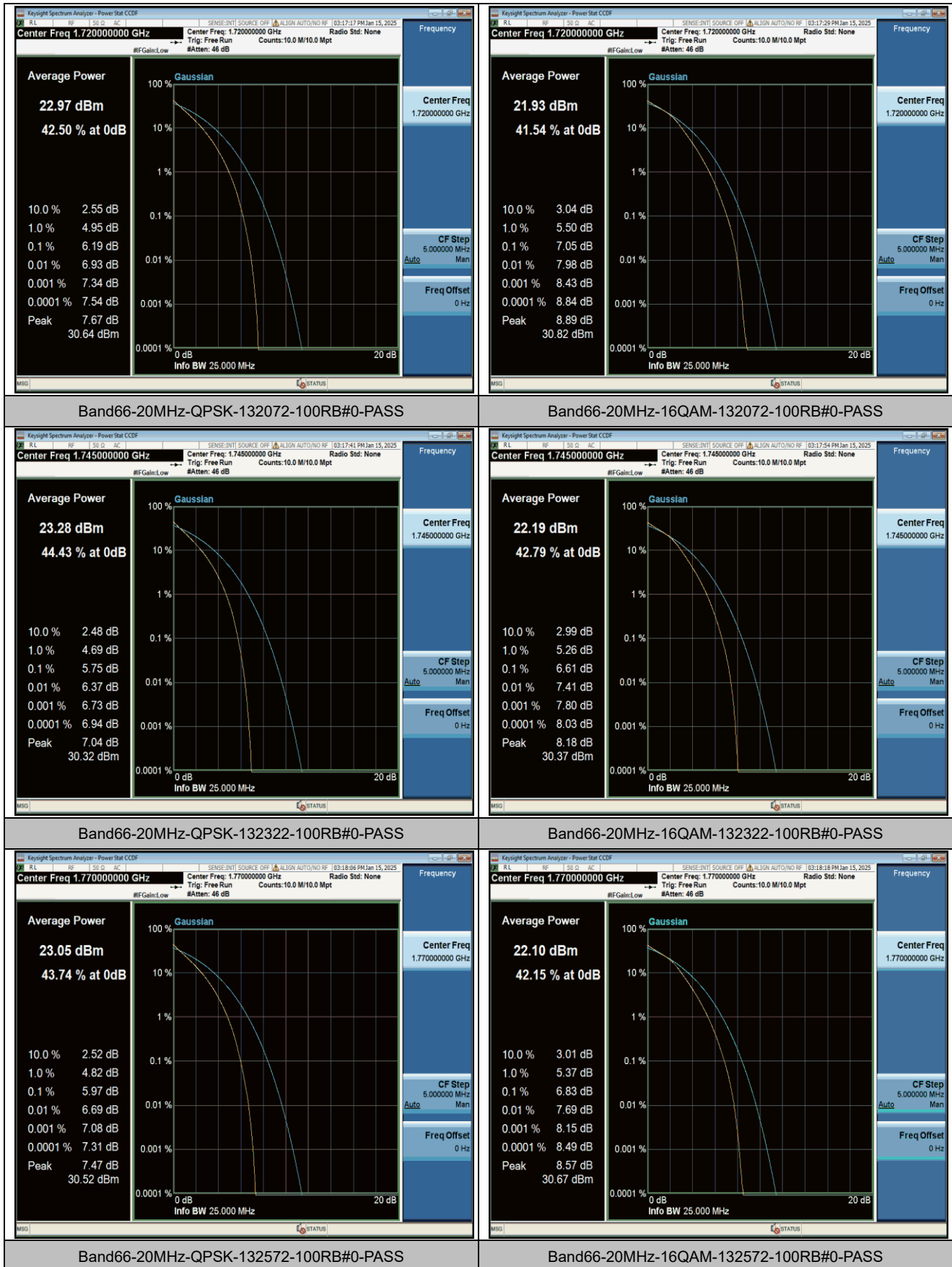
Band66	20MHz	16QAM	132072	100RB#0	21.96	23.46	30	PASS
Band66	20MHz	QPSK	132322	1RB#0	23.92	25.42	30	PASS
Band66	20MHz	QPSK	132322	1RB#49	24.18	25.68	30	PASS
Band66	20MHz	QPSK	132322	1RB#99	23.87	25.37	30	PASS
Band66	20MHz	QPSK	132322	100RB#0	23.07	24.57	30	PASS
Band66	20MHz	16QAM	132322	1RB#0	23.30	24.8	30	PASS
Band66	20MHz	16QAM	132322	1RB#49	22.97	24.47	30	PASS
Band66	20MHz	16QAM	132322	1RB#99	22.92	24.42	30	PASS
Band66	20MHz	16QAM	132322	100RB#0	22.07	23.57	30	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.72	25.22	30	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.93	25.43	30	PASS
Band66	20MHz	QPSK	132572	1RB#99	23.64	25.14	30	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.94	24.44	30	PASS
Band66	20MHz	16QAM	132572	1RB#0	22.61	24.11	30	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.61	24.11	30	PASS
Band66	20MHz	16QAM	132572	1RB#99	22.63	24.13	30	PASS
Band66	20MHz	16QAM	132572	100RB#0	21.81	23.31	30	PASS

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	6.19	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	7.05	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.75	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.61	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.97	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	6.83	13	PASS

Test Graphs

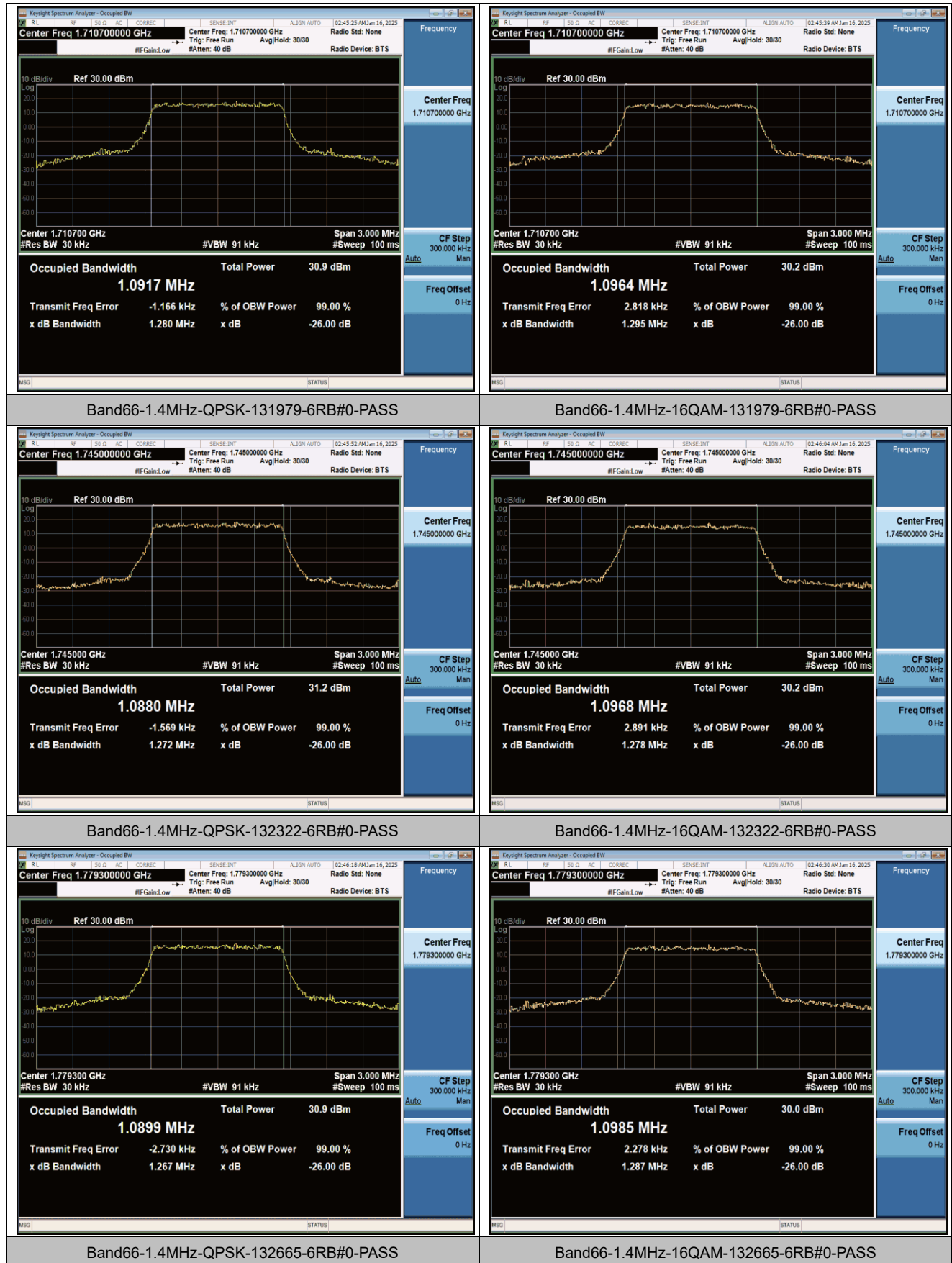


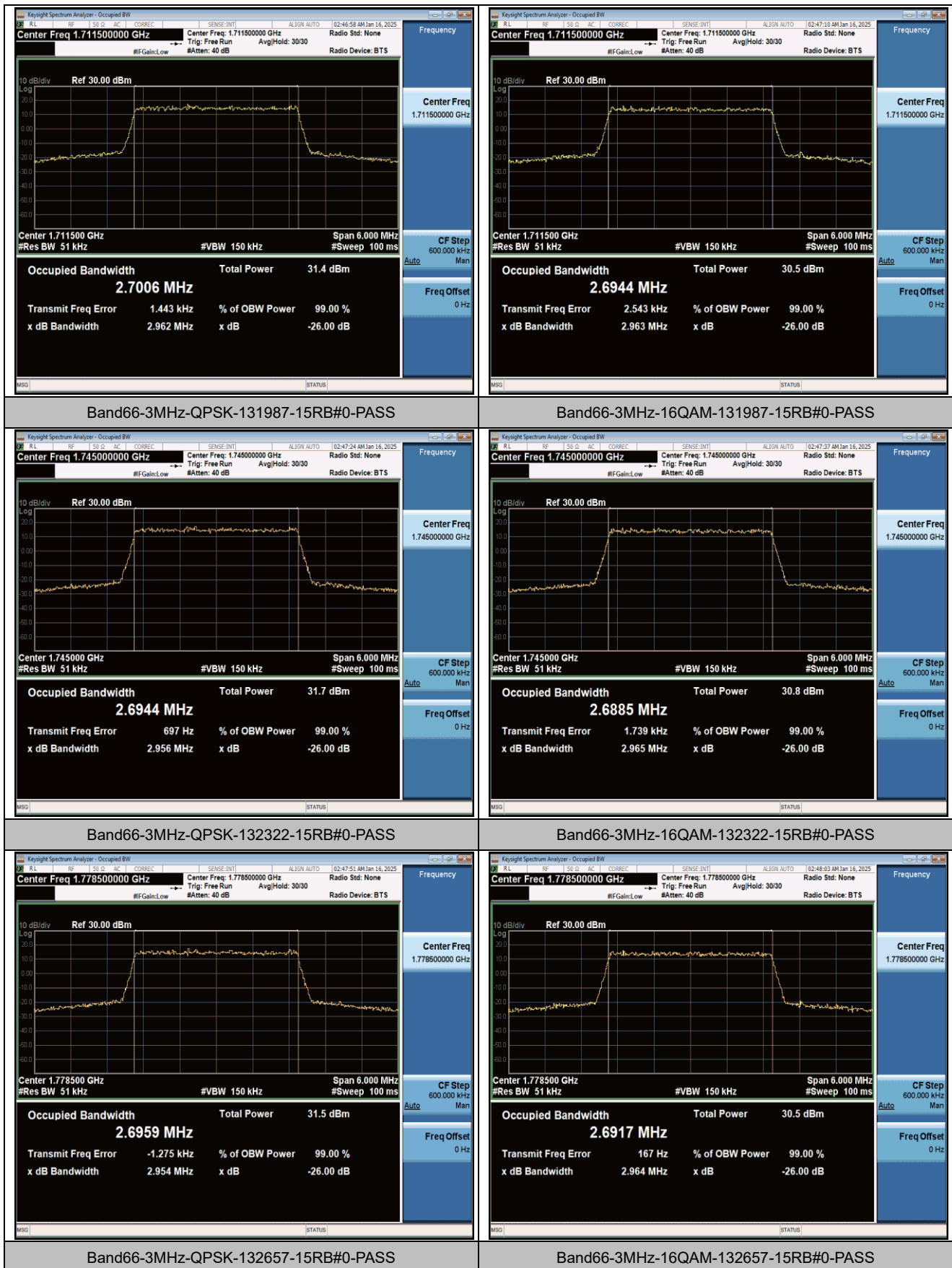
26dB Bandwidth and Occupied Bandwidth

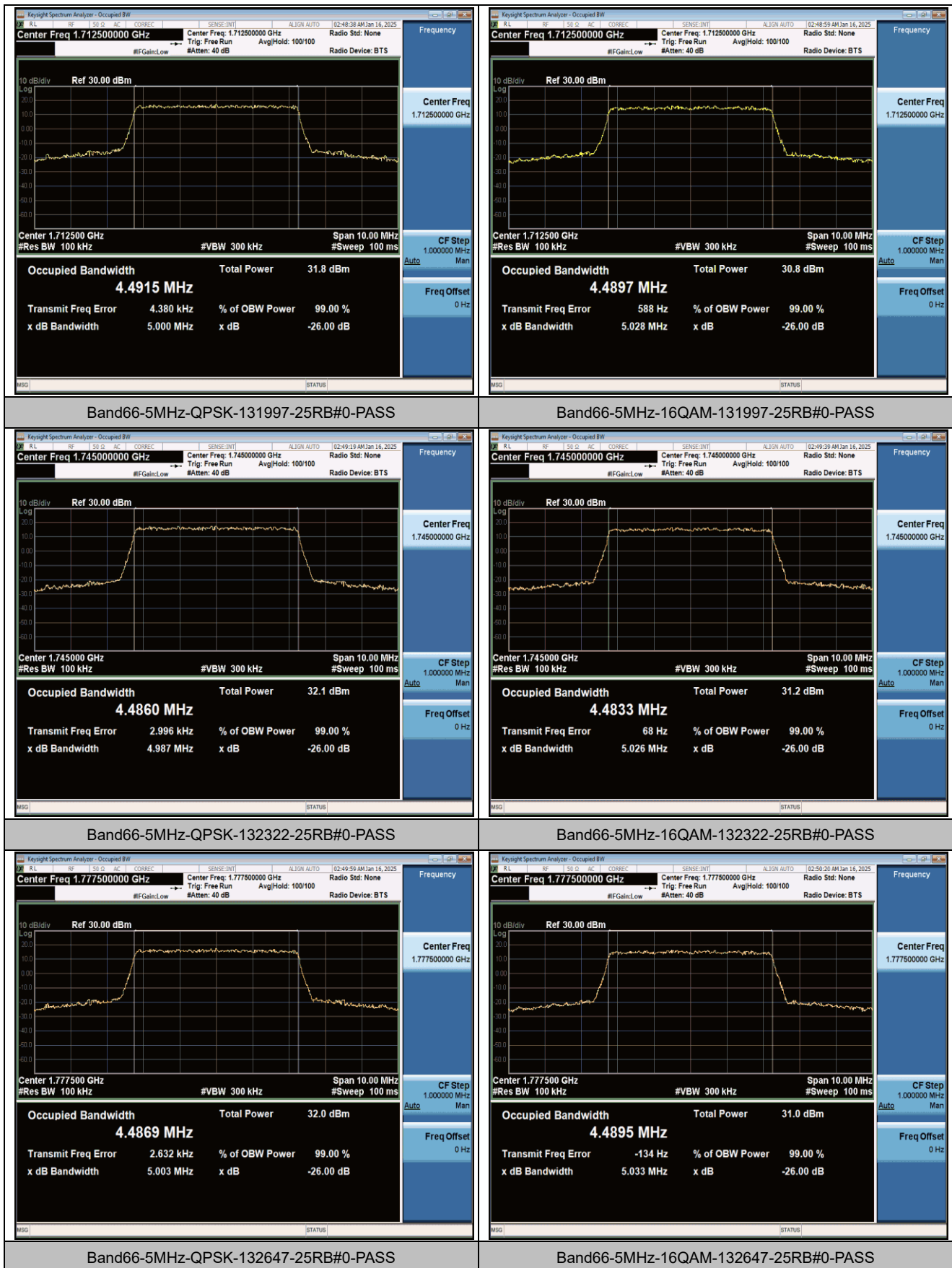
Test Result

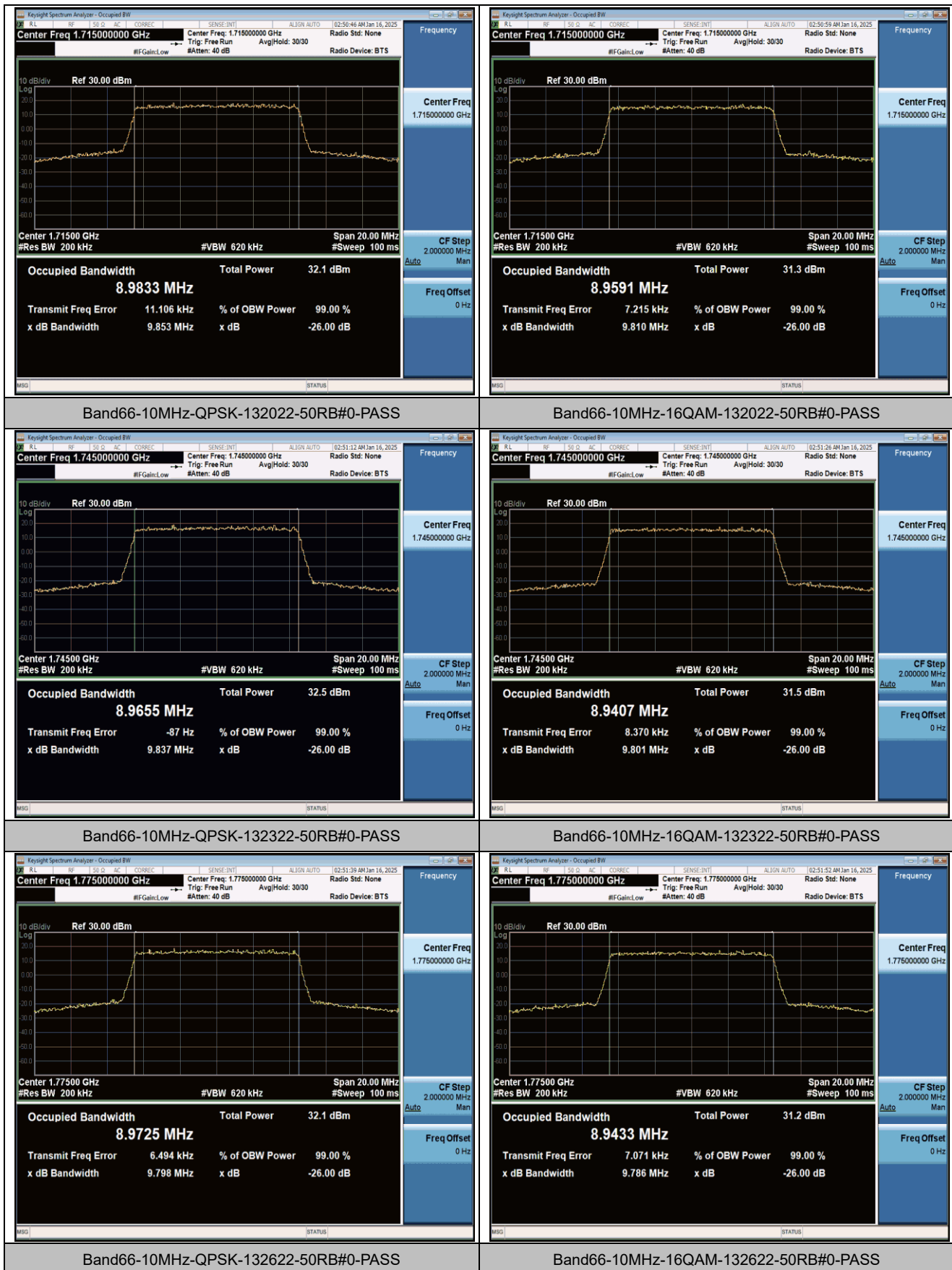
Band	Bandwidth	Modulation	Channel	RB Configuration	OBW (MHz)	26dB EBW (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.0917	1.280	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.0964	1.295	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.0880	1.272	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.0968	1.278	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.0899	1.267	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.0985	1.287	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.7006	2.962	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.6944	2.963	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.6944	2.956	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.6885	2.965	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.6959	2.954	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.6917	2.964	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.4915	5.000	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.4897	5.028	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.4860	4.987	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.4833	5.026	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.4869	5.003	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.4895	5.033	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.9833	9.853	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.9591	9.810	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.9655	9.837	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.9407	9.801	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.9725	9.798	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.9433	9.786	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.459	14.69	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.440	14.72	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.441	14.70	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.413	14.73	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.438	14.72	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.415	14.74	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.963	19.41	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.934	19.43	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.955	19.48	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.903	19.43	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.976	19.38	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.915	19.45	PASS

Test Graphs







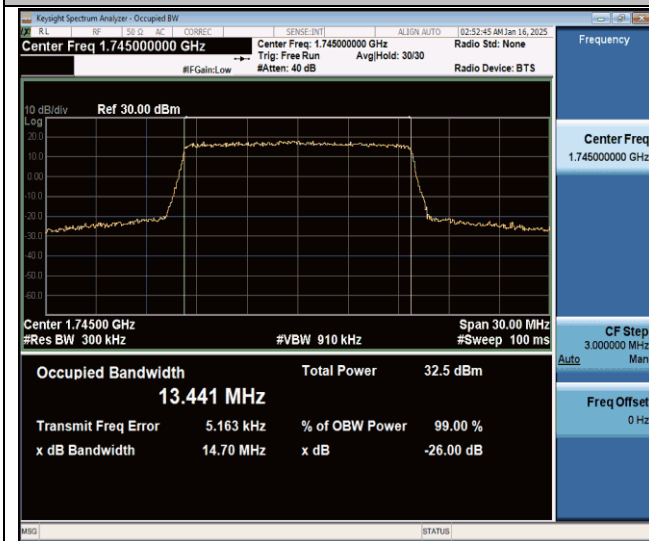




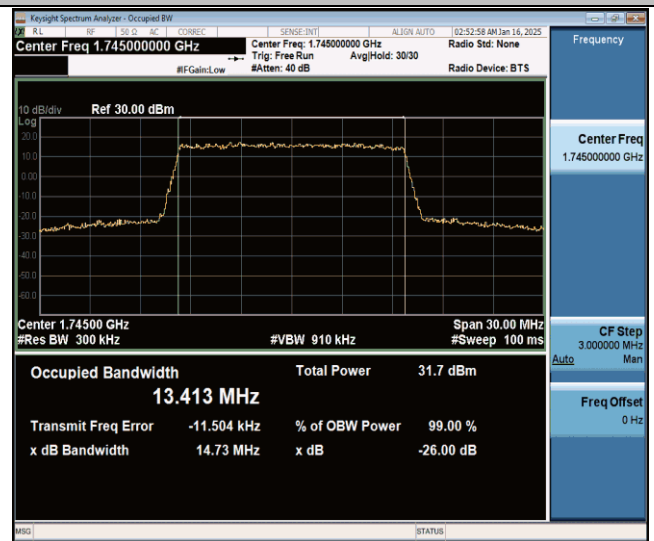
Band66-15MHz-QPSK-132047-75RB#0-PASS



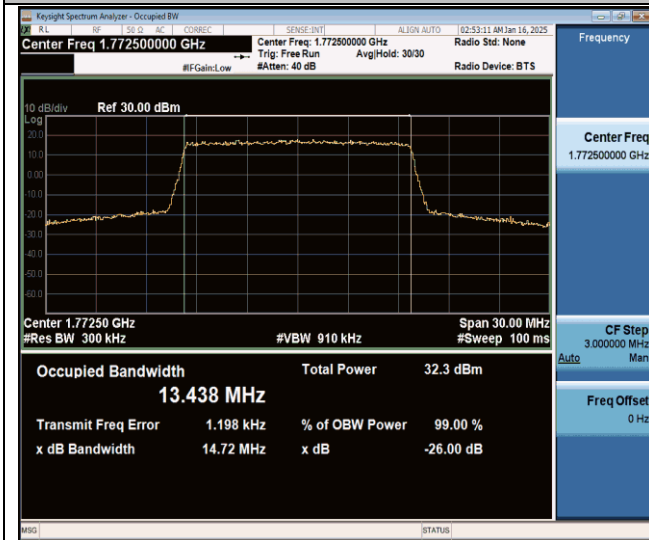
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Band66-15MHz-QPSK-132322-75RB#0-PASS



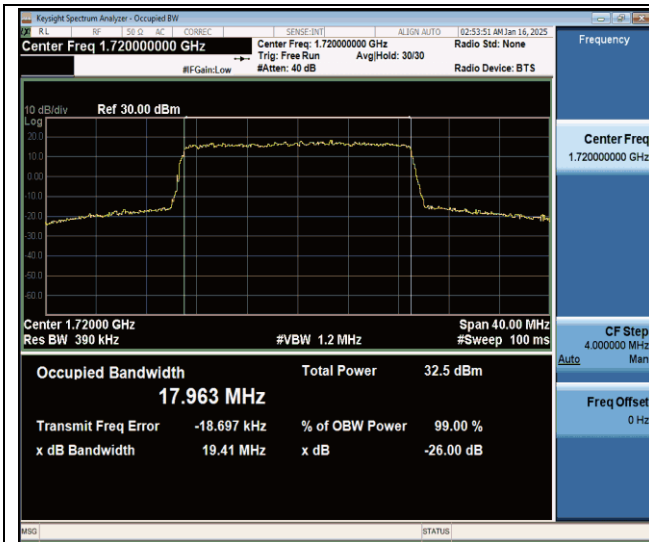
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Band66-15MHz-QPSK-132597-75RB#0-PASS



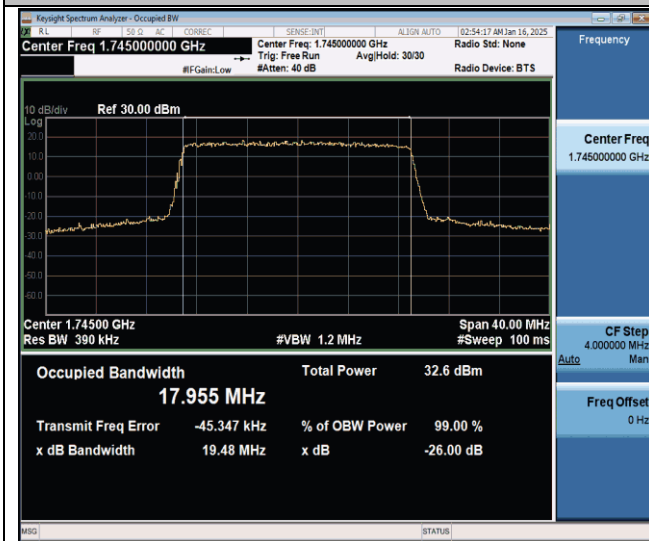
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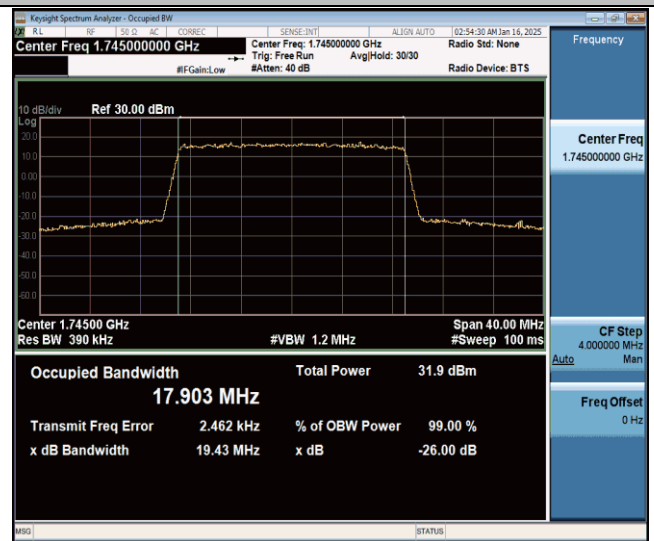
Band66-20MHz-QPSK-132072-100RB#0-PASS



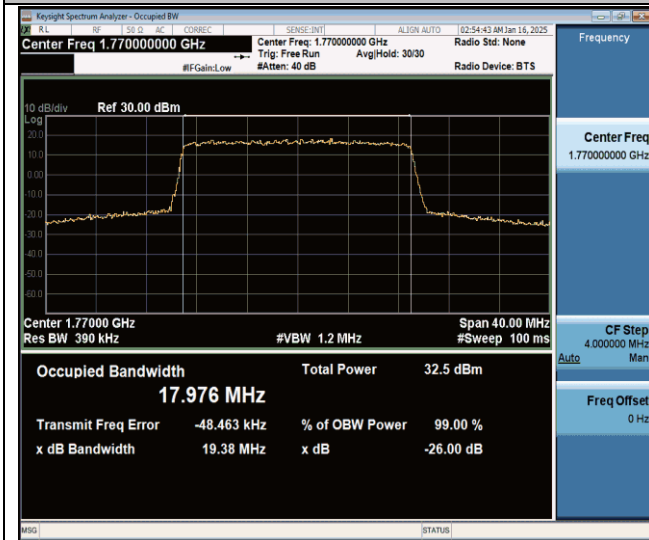
Band66-20MHz-16QAM-132072-100RB#0-PASS



Band66-20MHz-QPSK-132322-100RB#0-PASS



Band66-20MHz-16QAM-132322-100RB#0-PASS



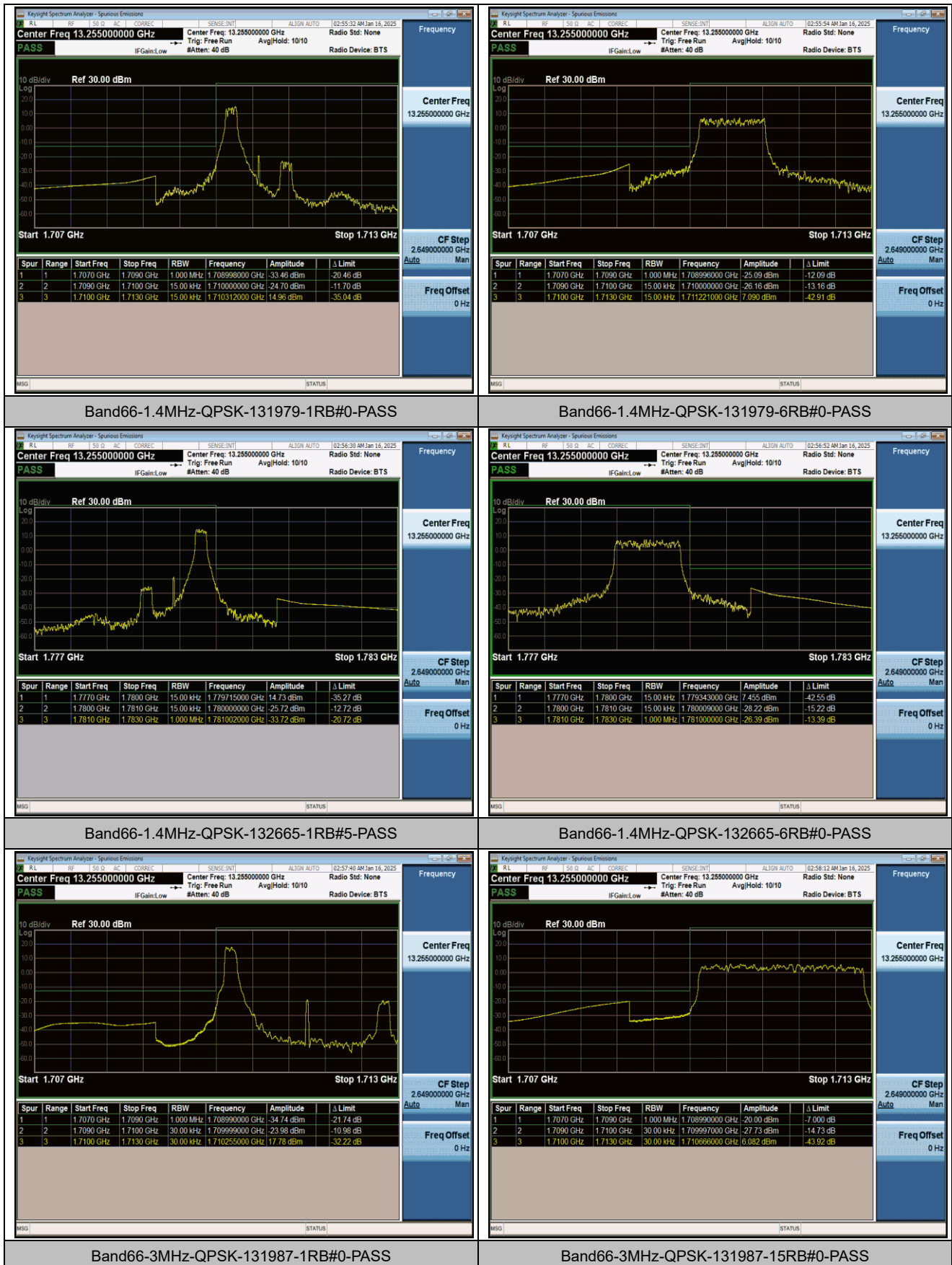
Band66-20MHz-QPSK-132572-100RB#0-PASS

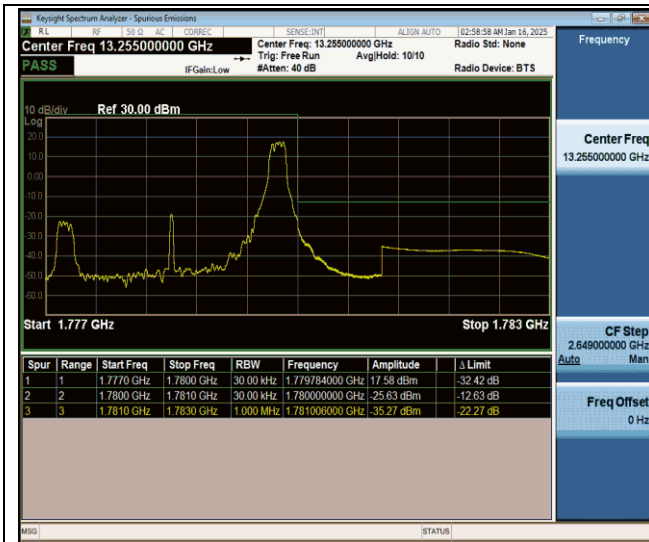


Band66-20MHz-16QAM-132572-100RB#0-PASS

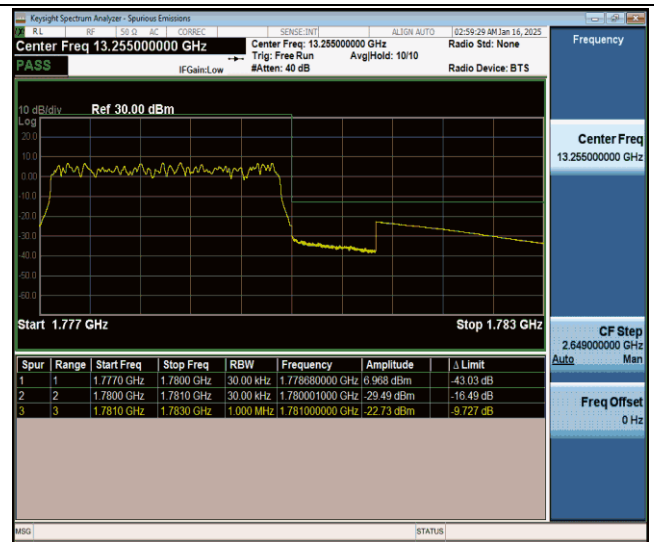
Band Edge

Test Graphs

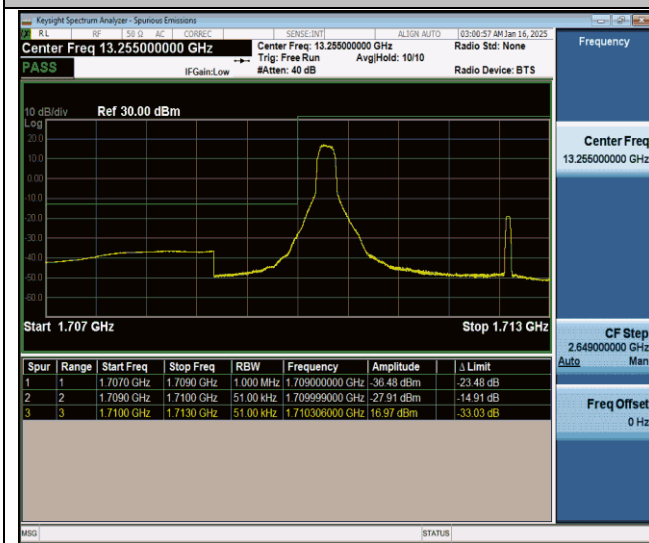




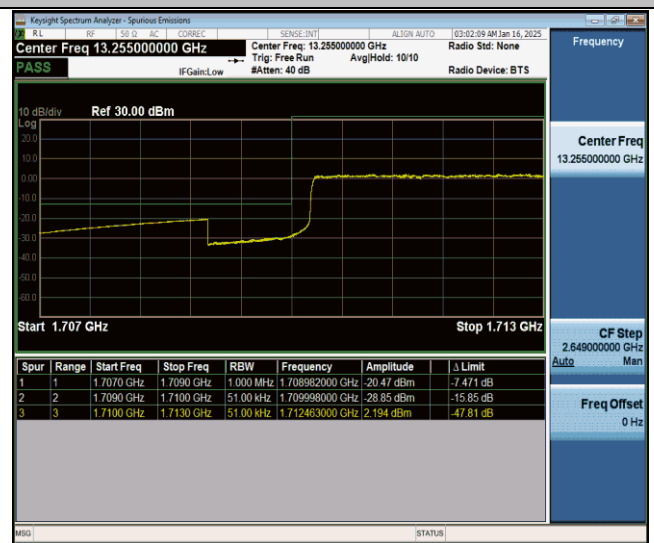
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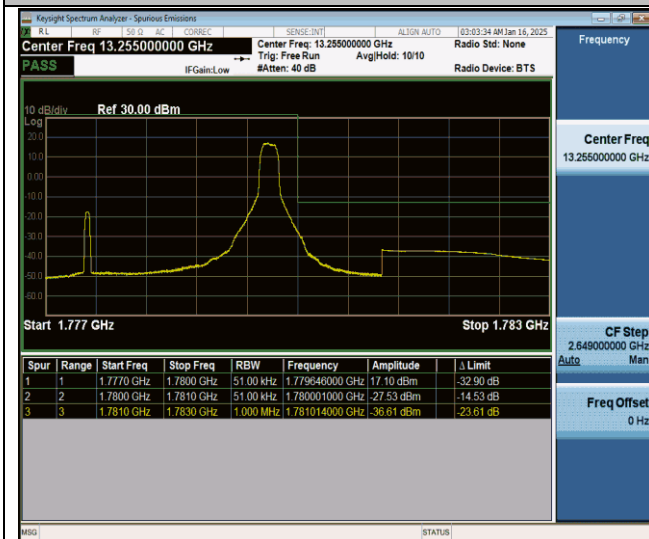
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Band66-5MHz-QPSK-131997-1RB#0-PASS



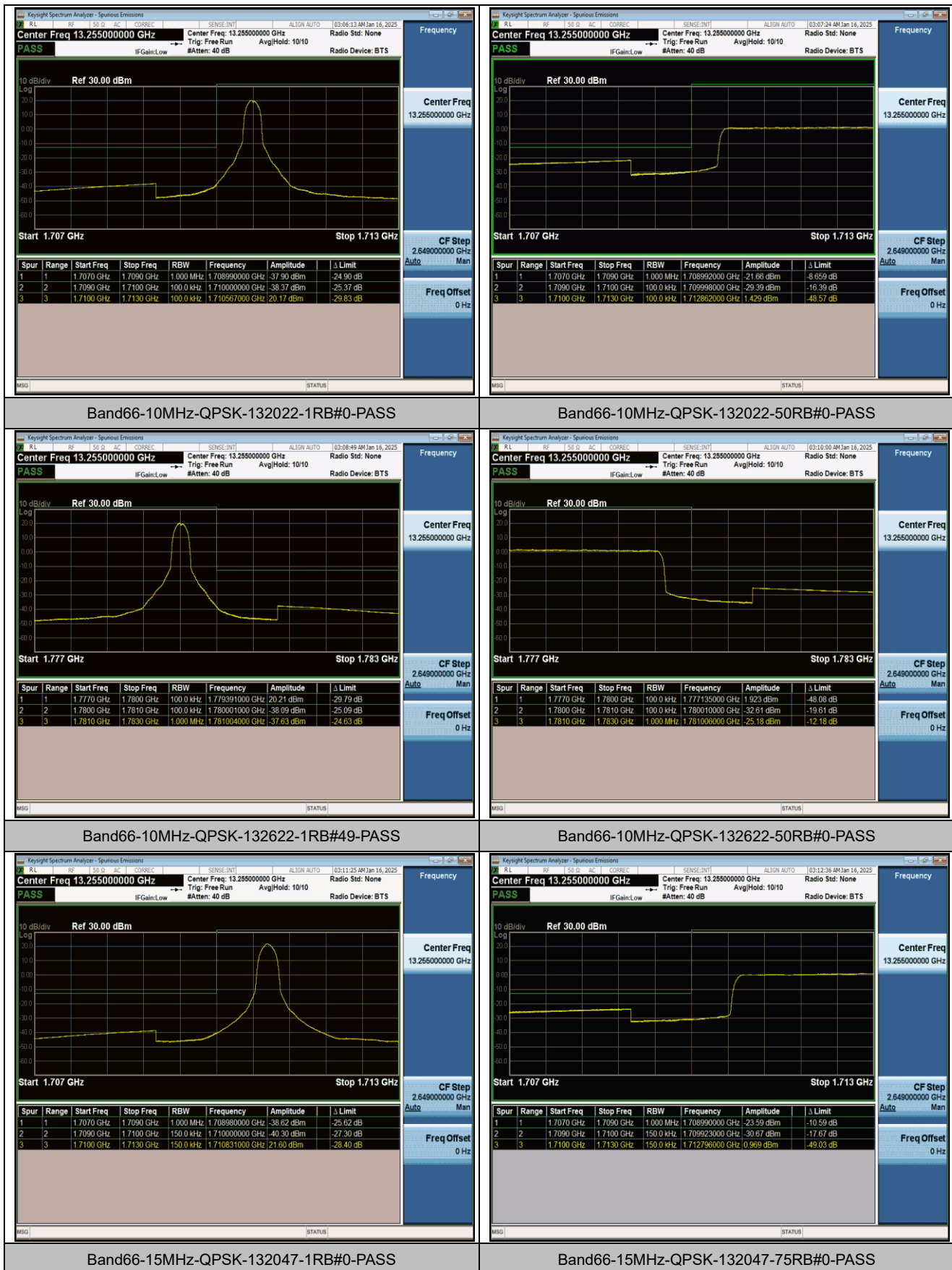
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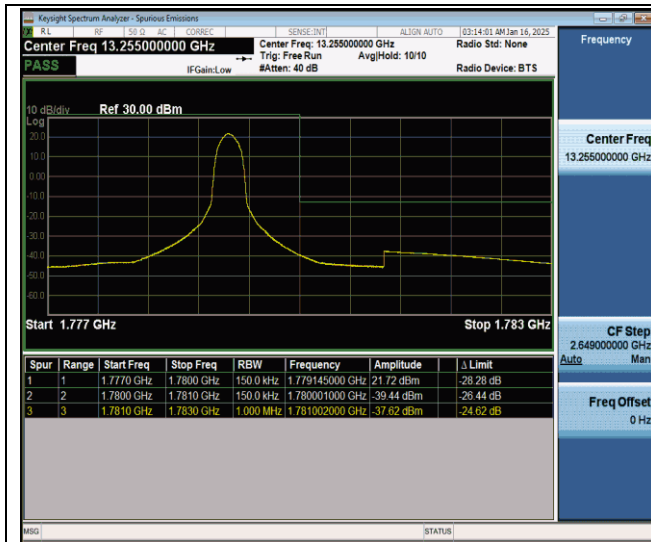


Band66-5MHz-QPSK-132647-1RB#24-PASS

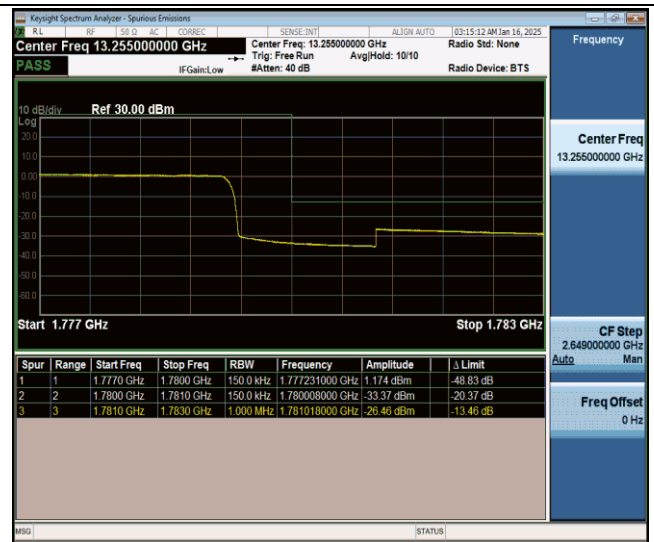


Band66-5MHz-QPSK-132647-25RB#0-PASS

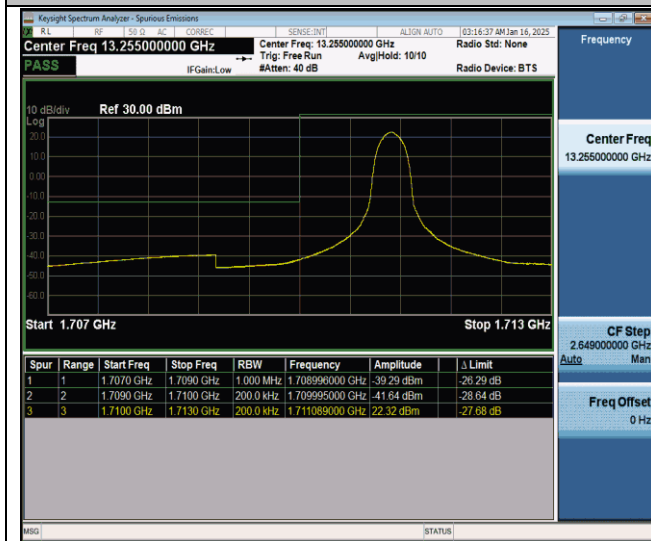




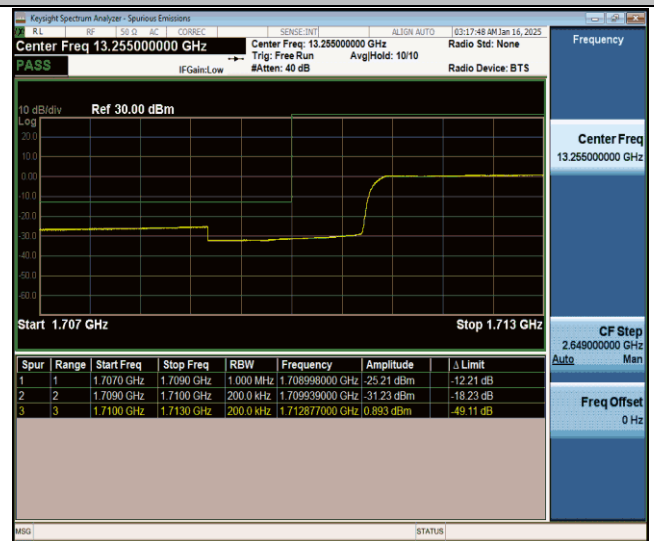
Band66-15MHz-QPSK-132597-1RB#74-PASS



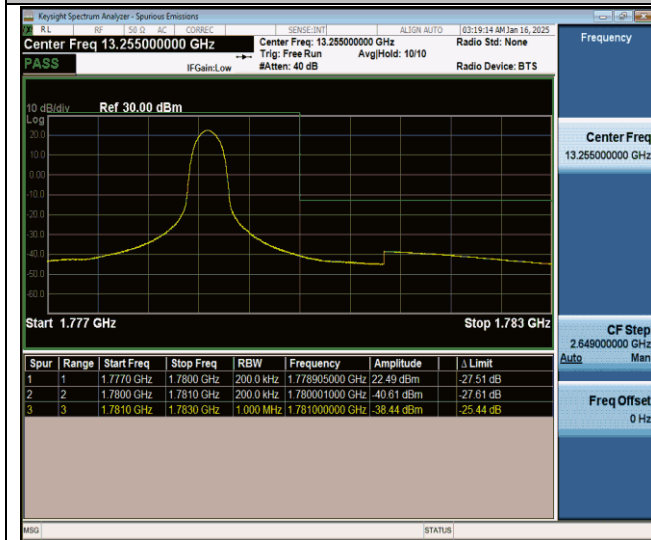
Band66-15MHz-QPSK-132597-75RB#0-PASS



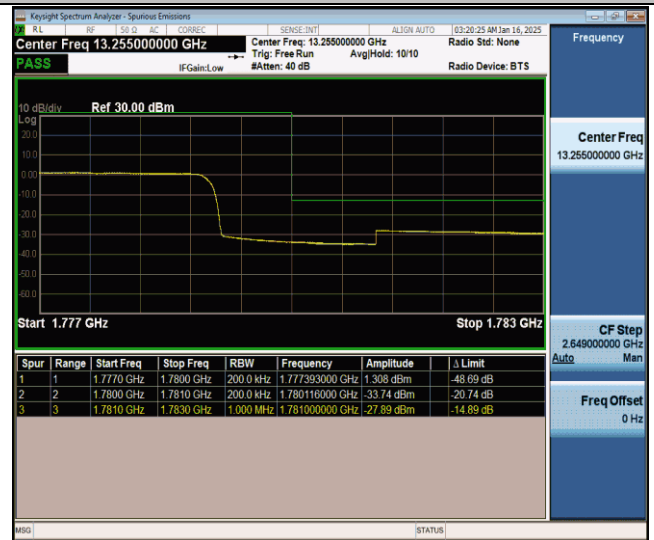
Band66-20MHz-QPSK-132072-1RB#0-PASS



Band66-20MHz-QPSK-132072-100RB#0-PASS



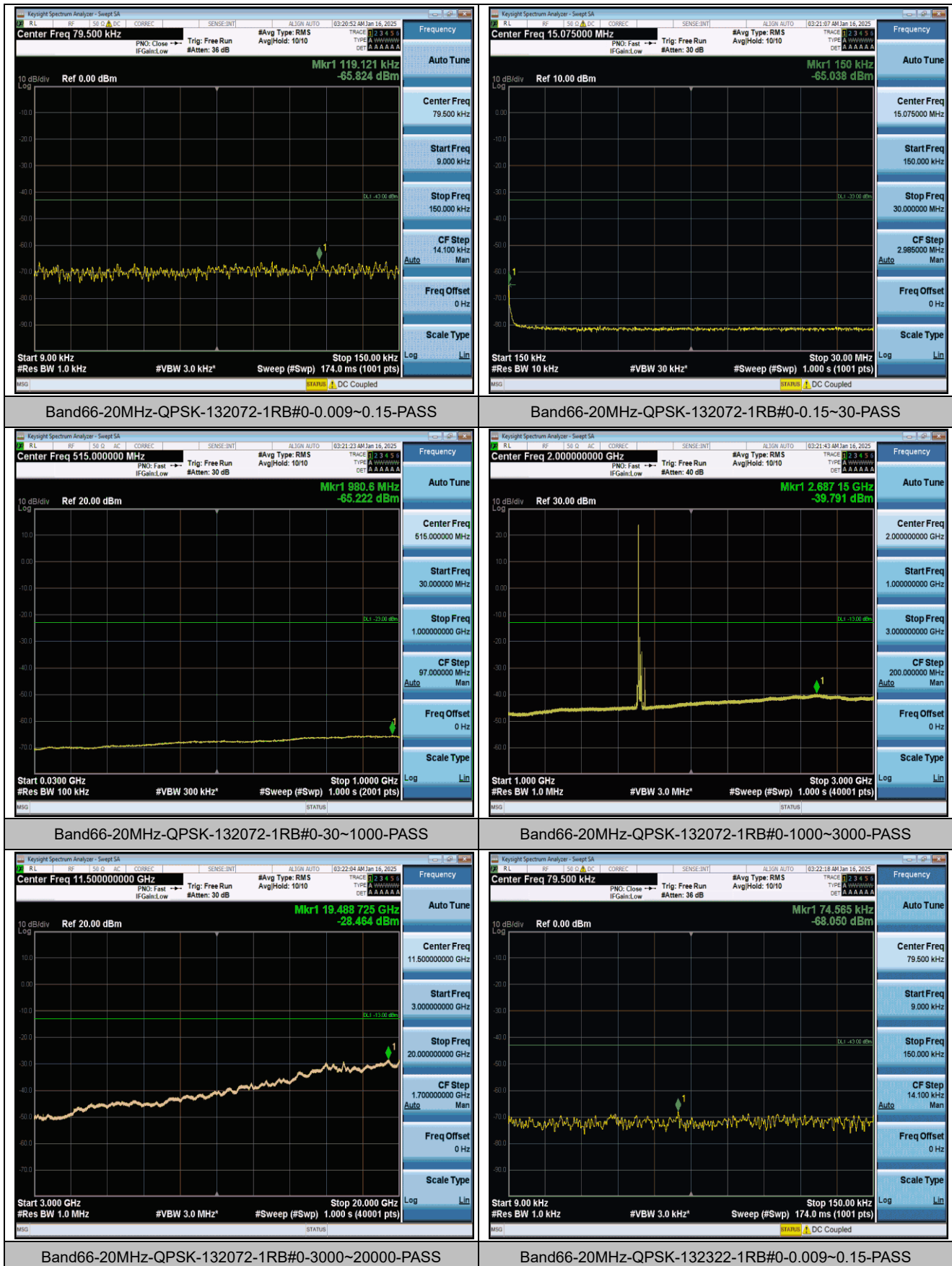
Band66-20MHz-QPSK-132572-1RB#99-PASS

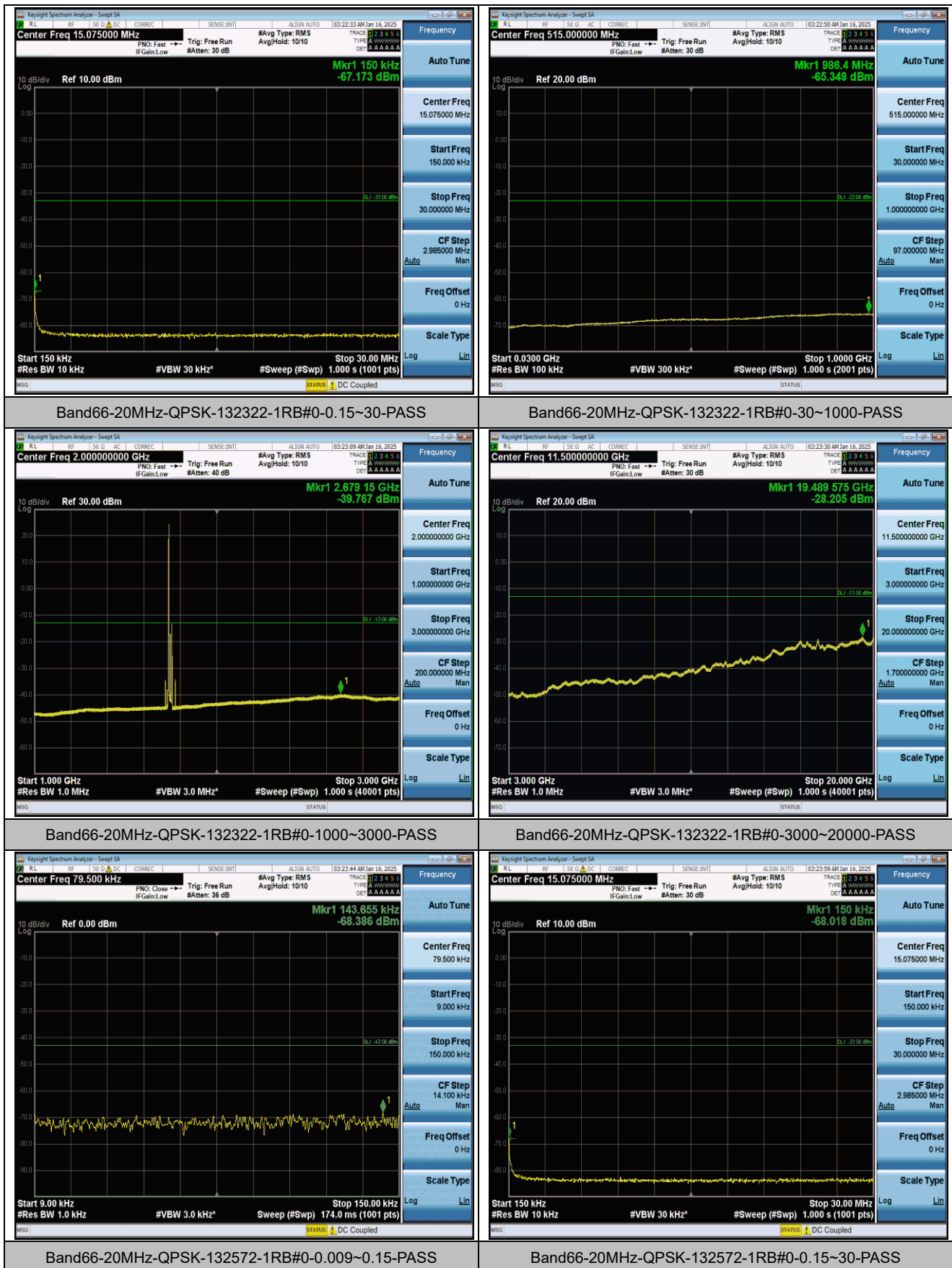


Band66-20MHz-QPSK-132572-100RB#0-PASS

Conducted Spurious Emission

Test Graphs







Band66-20MHz-QPSK-132572-1RB#0-30~1000-PASS



Band66-20MHz-QPSK-132572-1RB#0-1000~3000-PASS



Band66-20MHz-QPSK-132572-1RB#0-3000~20000-PASS

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-1.60	-0.000917	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-2.60	-0.001490	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-1.40	-0.000802	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.00	-0.000573	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-0.80	-0.000458	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-1.00	-0.000573	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-0.90	-0.000516	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-1.30	-0.000745	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-3.60	-0.002063	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.90	-0.001662	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-1.00	-0.000573	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-0.10	-0.000057	PASS

~The End~