



Appendix D: Test Data for E-UTRA Band 12

Product Name: 4G Module

Test Model: Air795U

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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D.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	22.89	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.75	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.11	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.76	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.08	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.80	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.02	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.70	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.73	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.49	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.76	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.79	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.02	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.74	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.85	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.64	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.81	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.69	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.88	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.68	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.83	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.61	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.86	PASS





D.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.37	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.10	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.34	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.04	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.84	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.53	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.39	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.15	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.35	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.13	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.03	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.76	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.52	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.15	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.52	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.13	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.33	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.96	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.49	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.17	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.53	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.21	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.44	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.14	13	PASS



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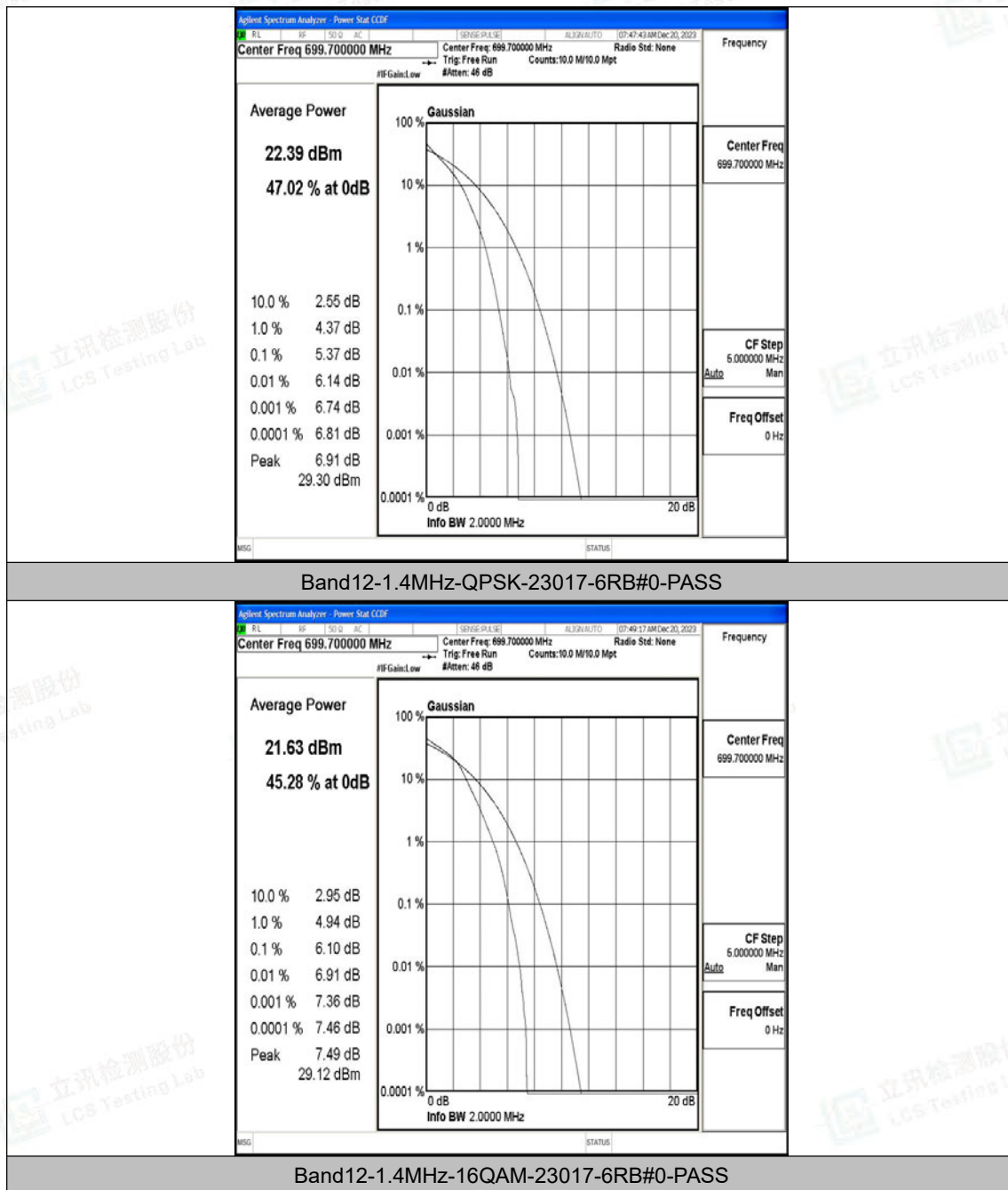
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Test Graphs

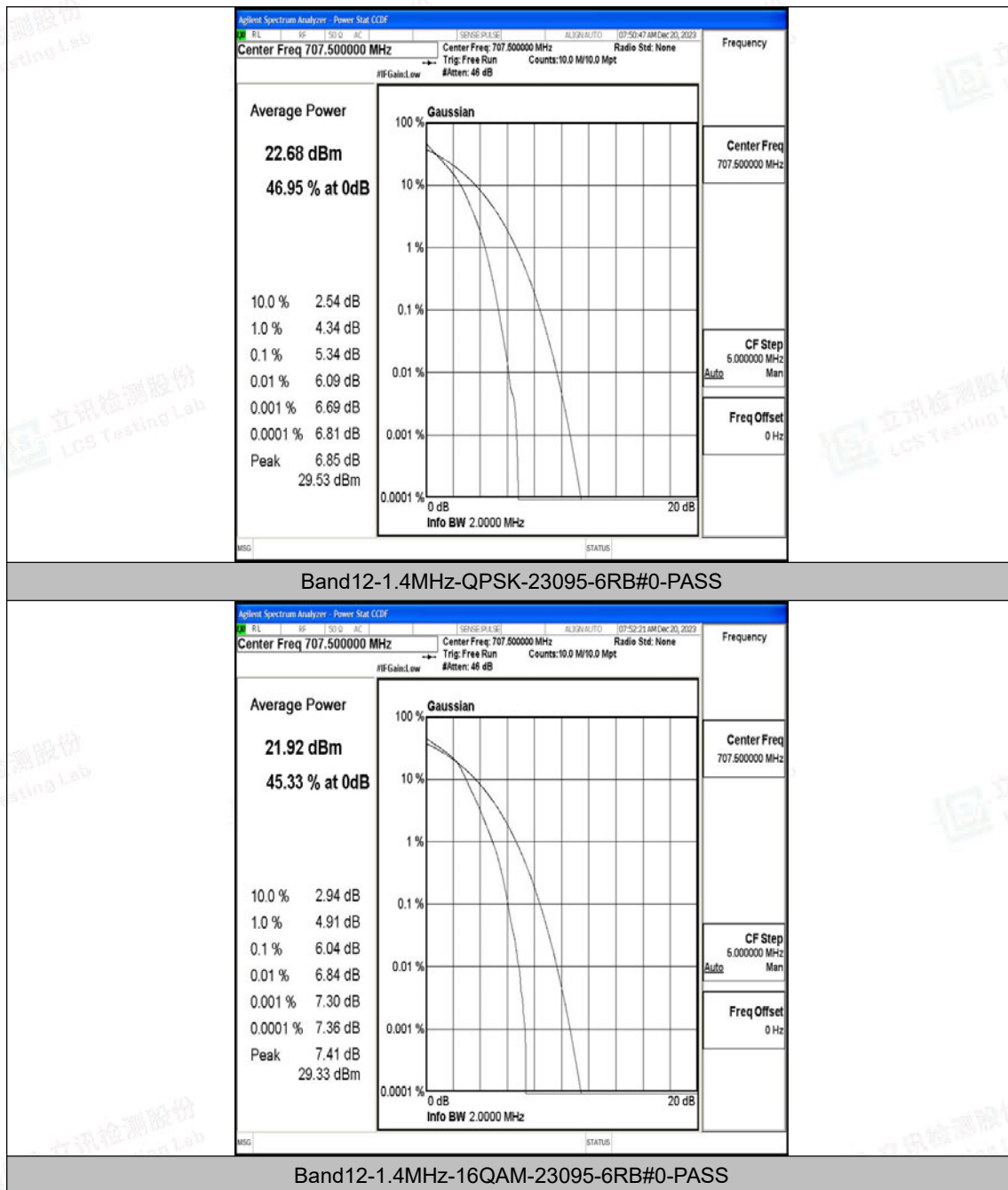


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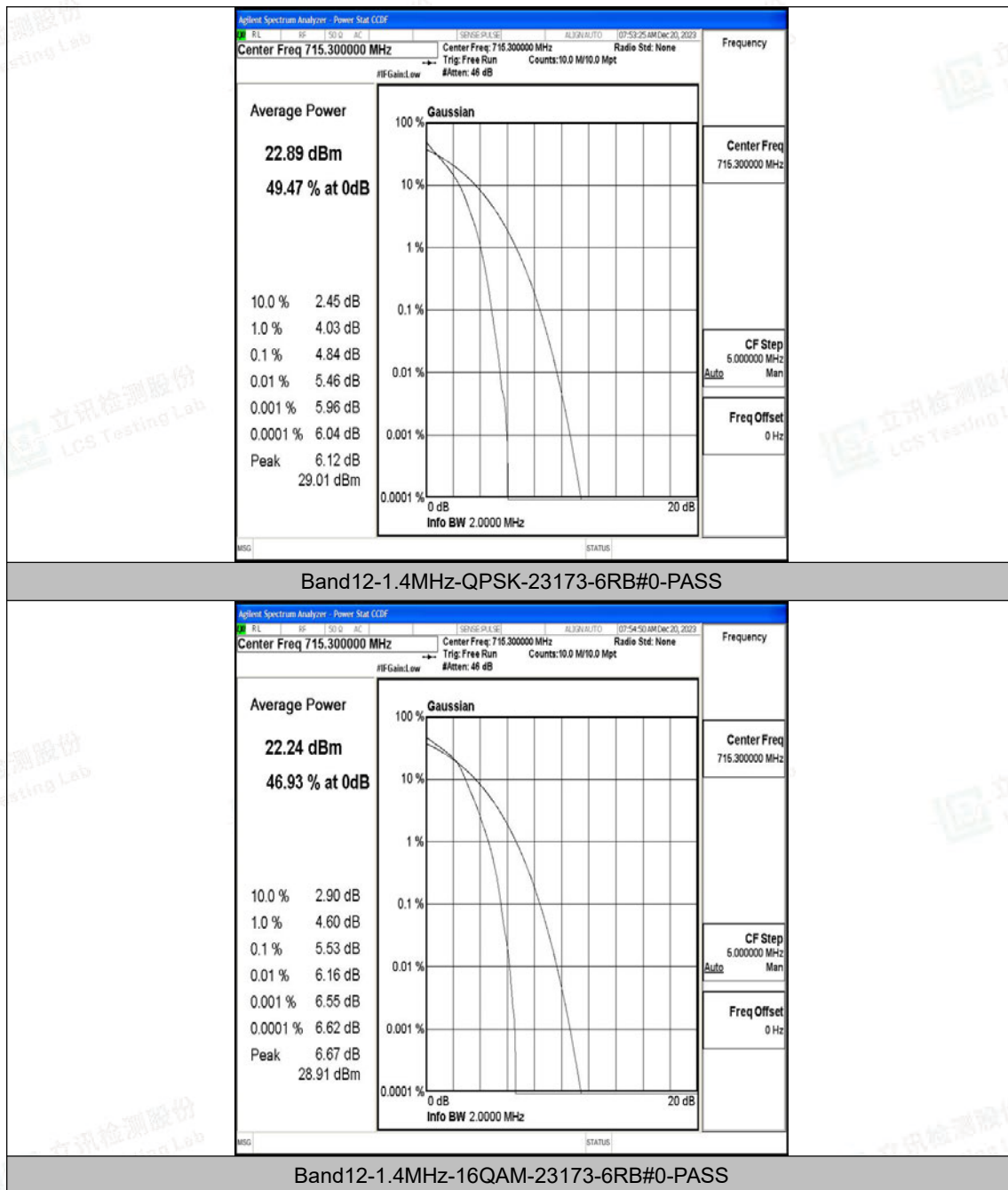


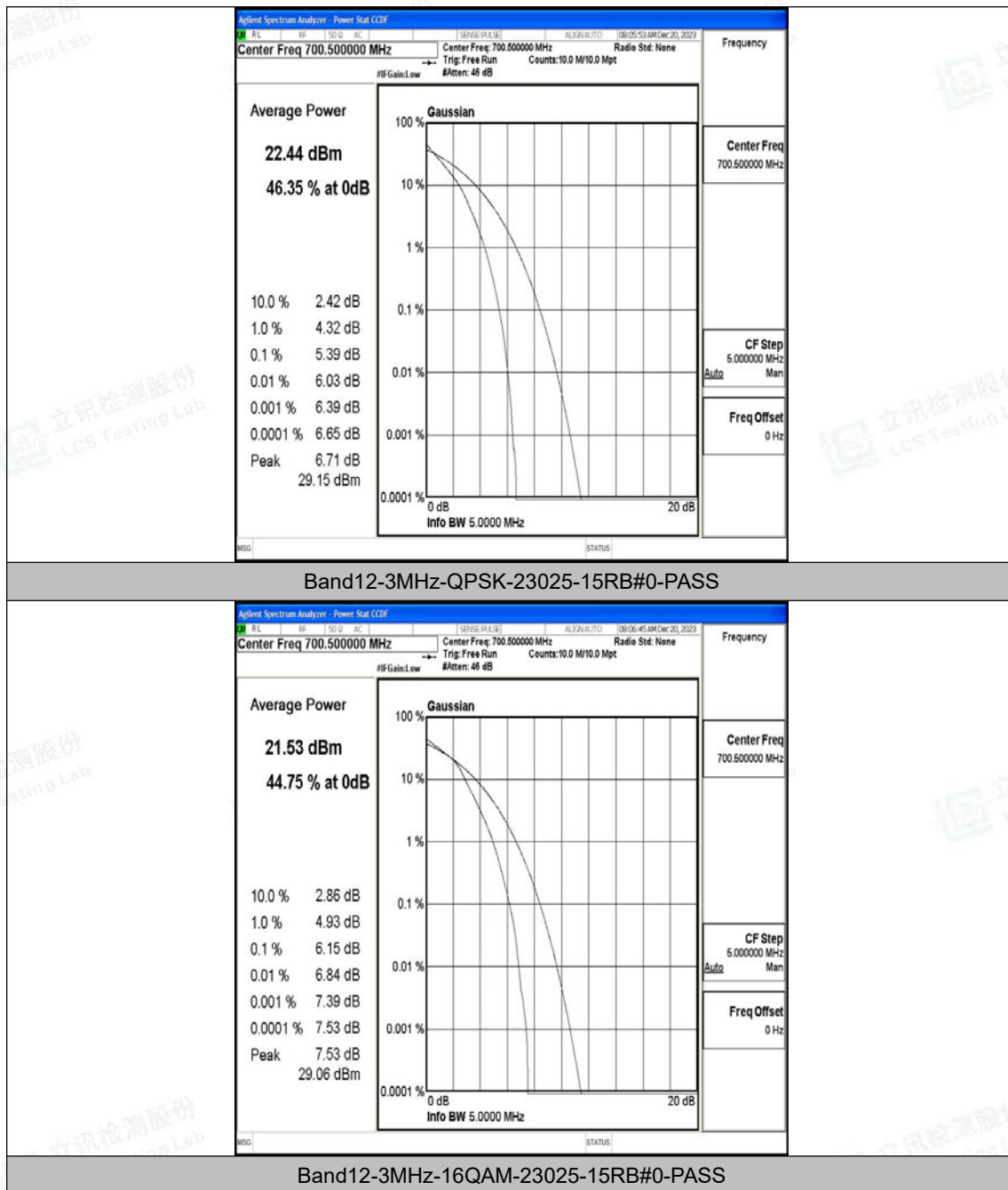
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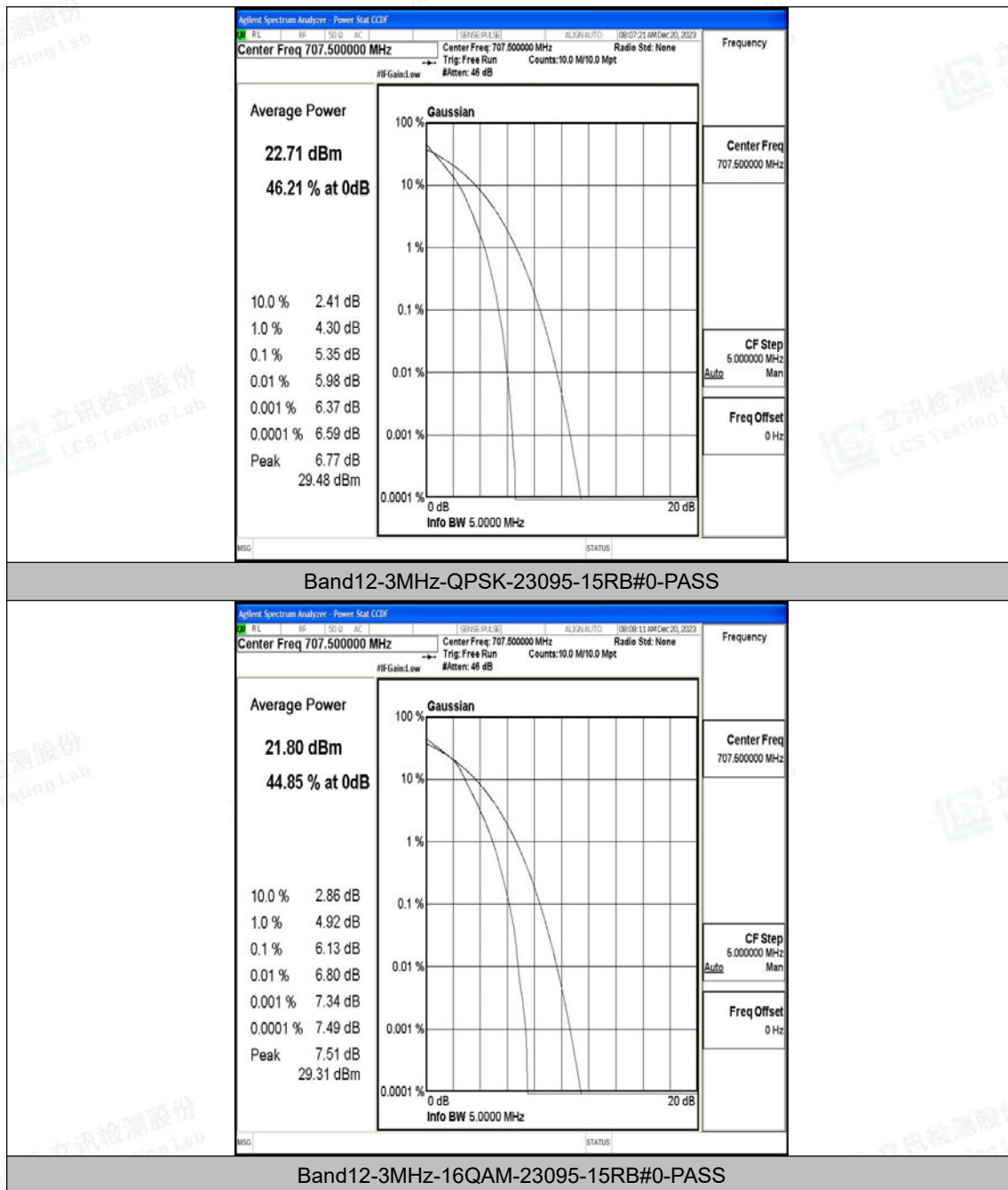


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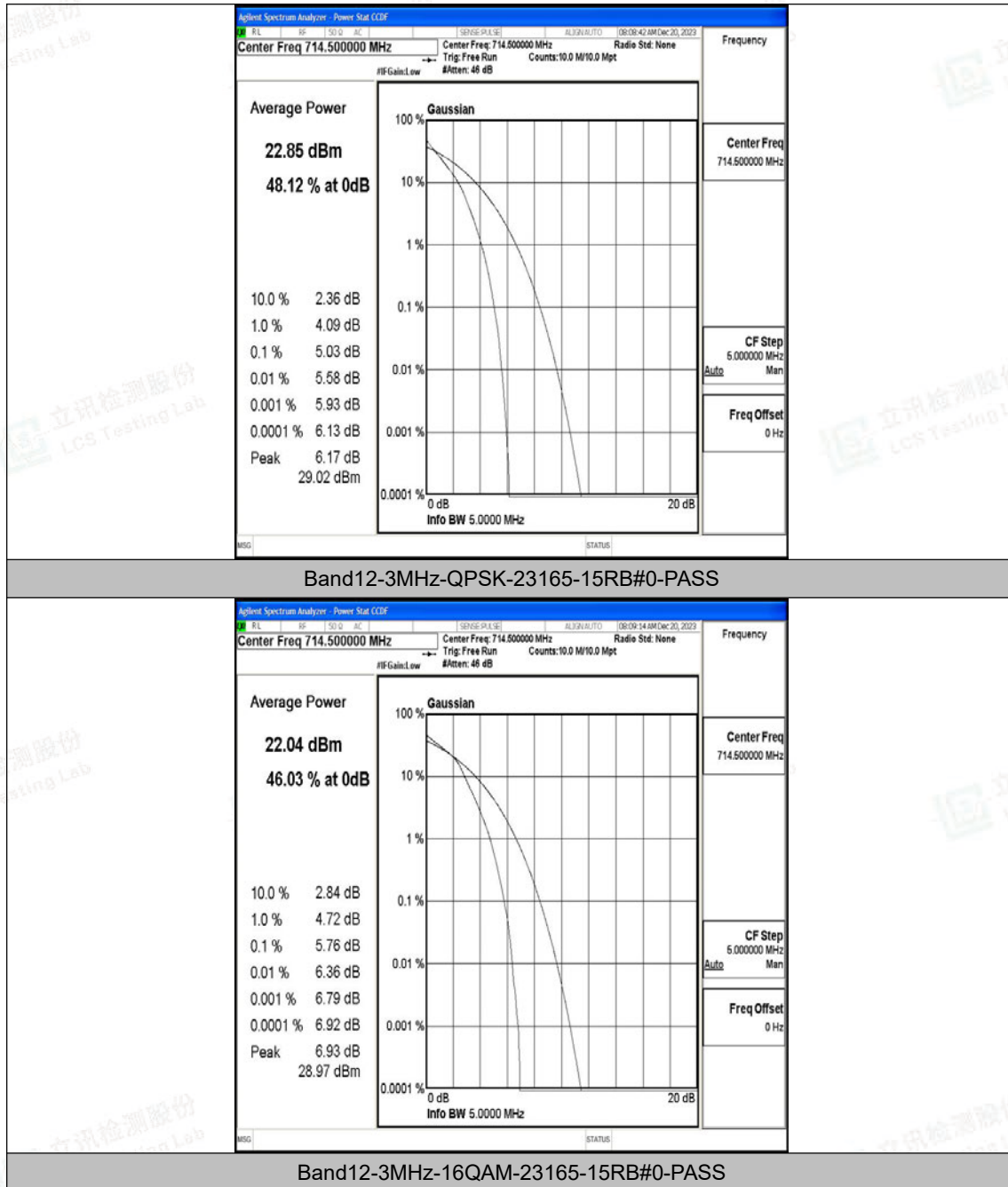


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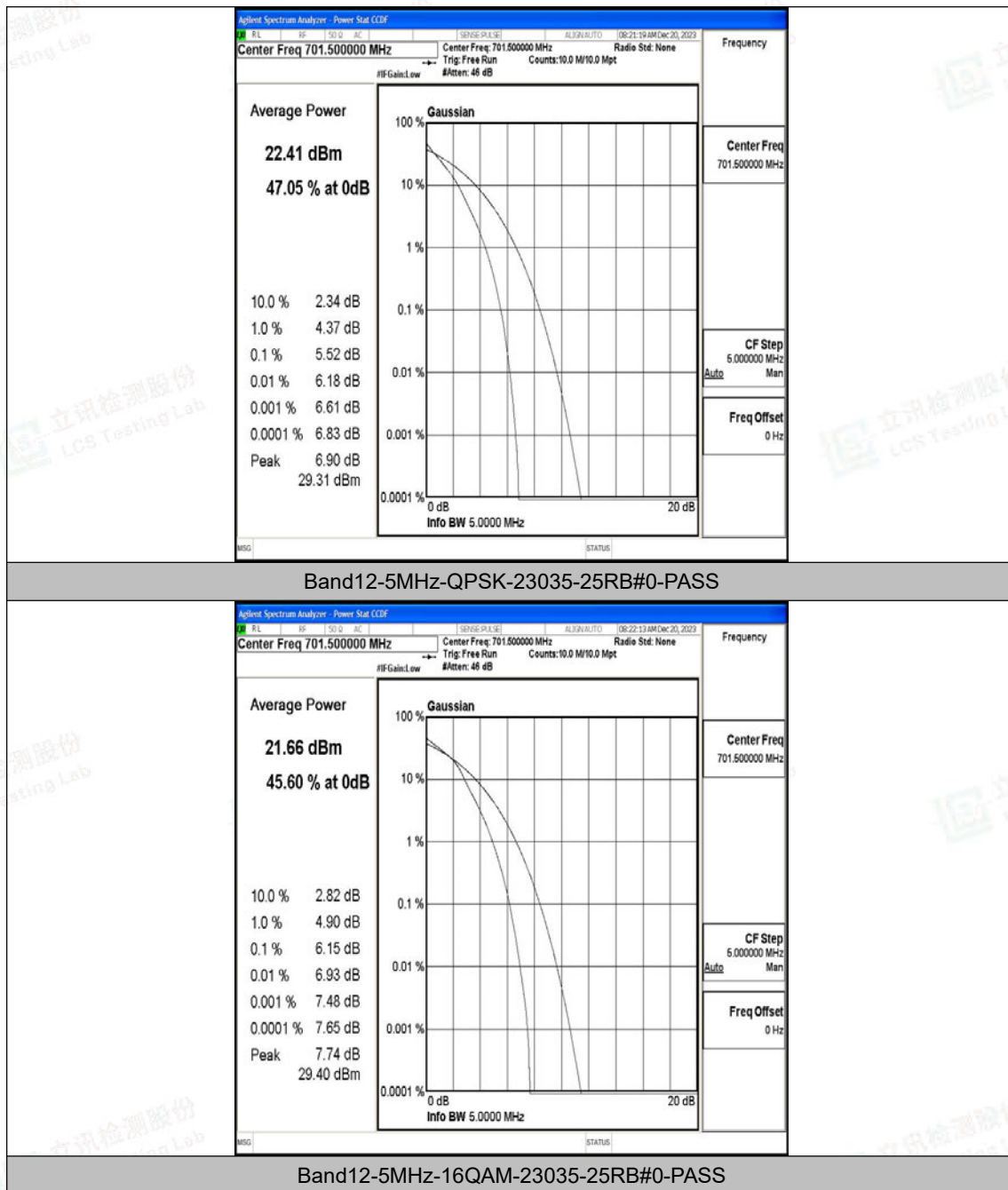


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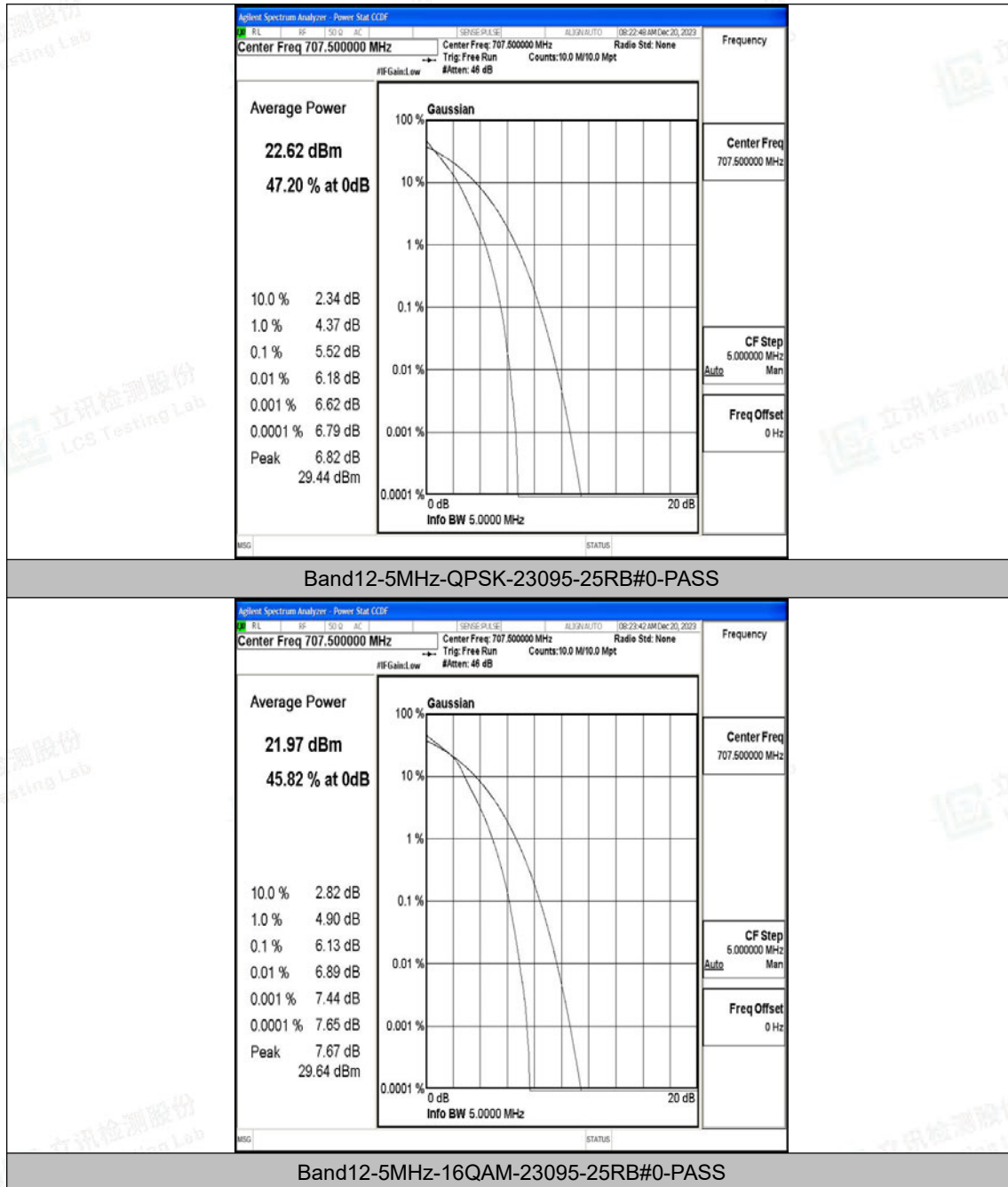


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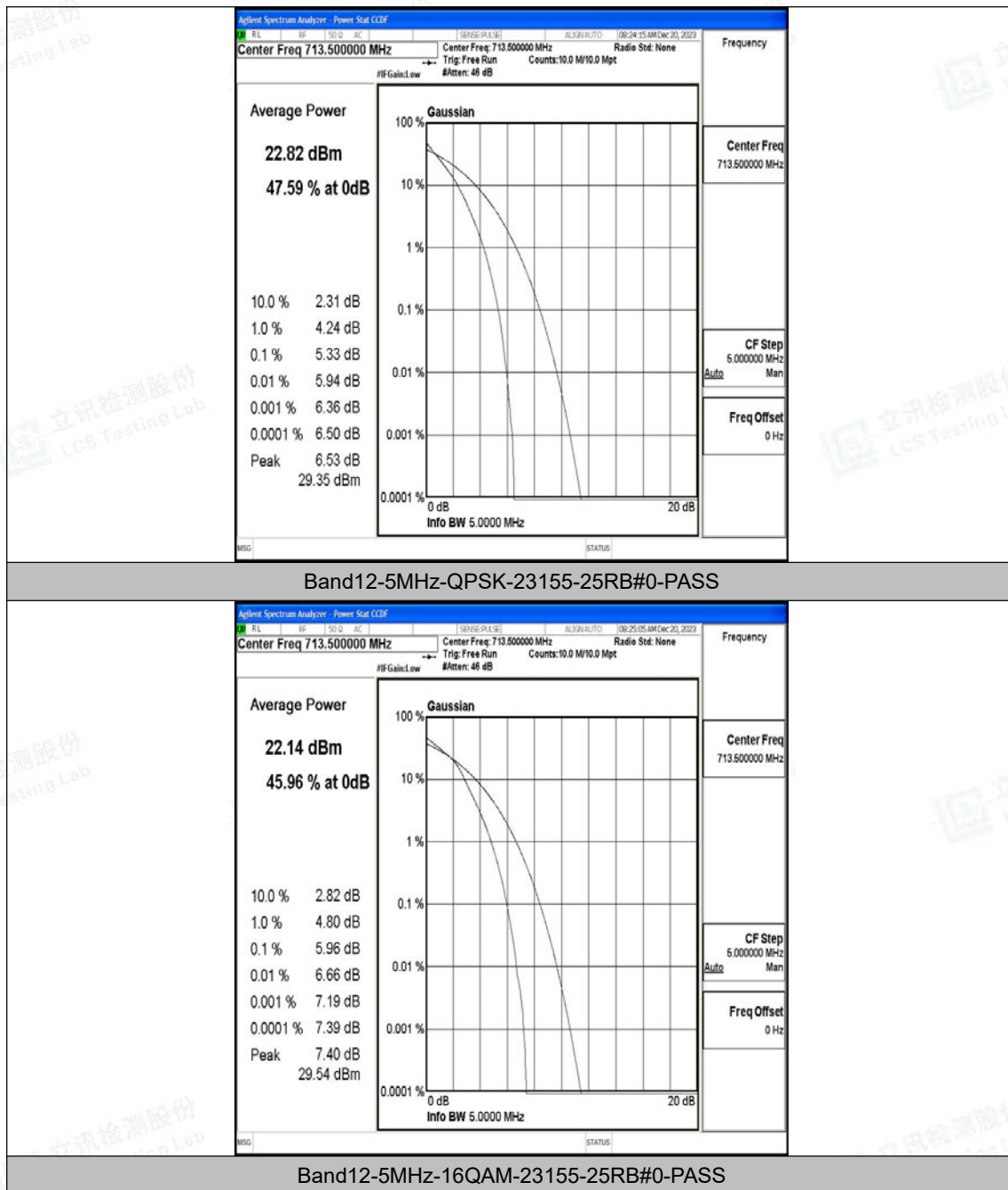


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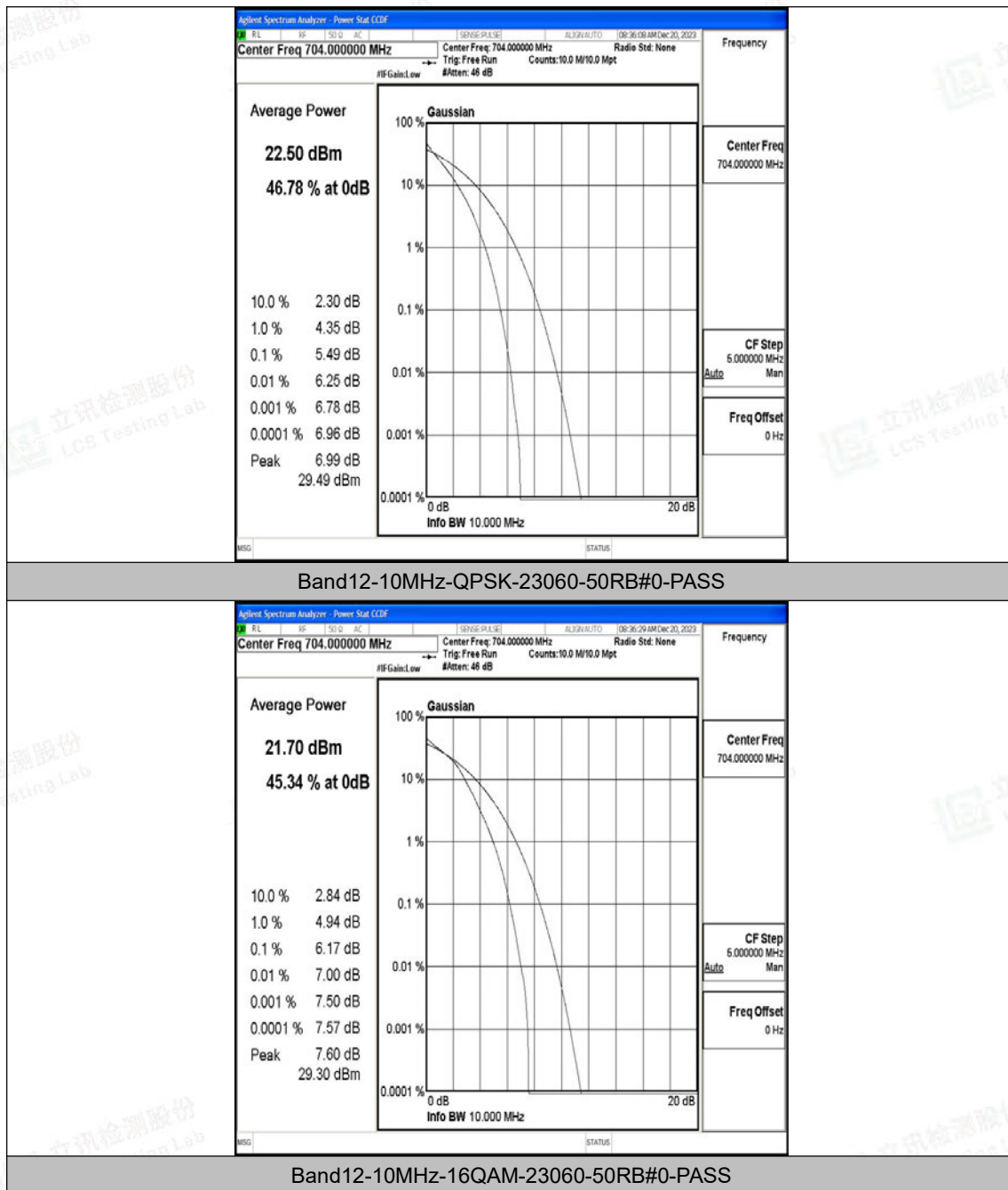


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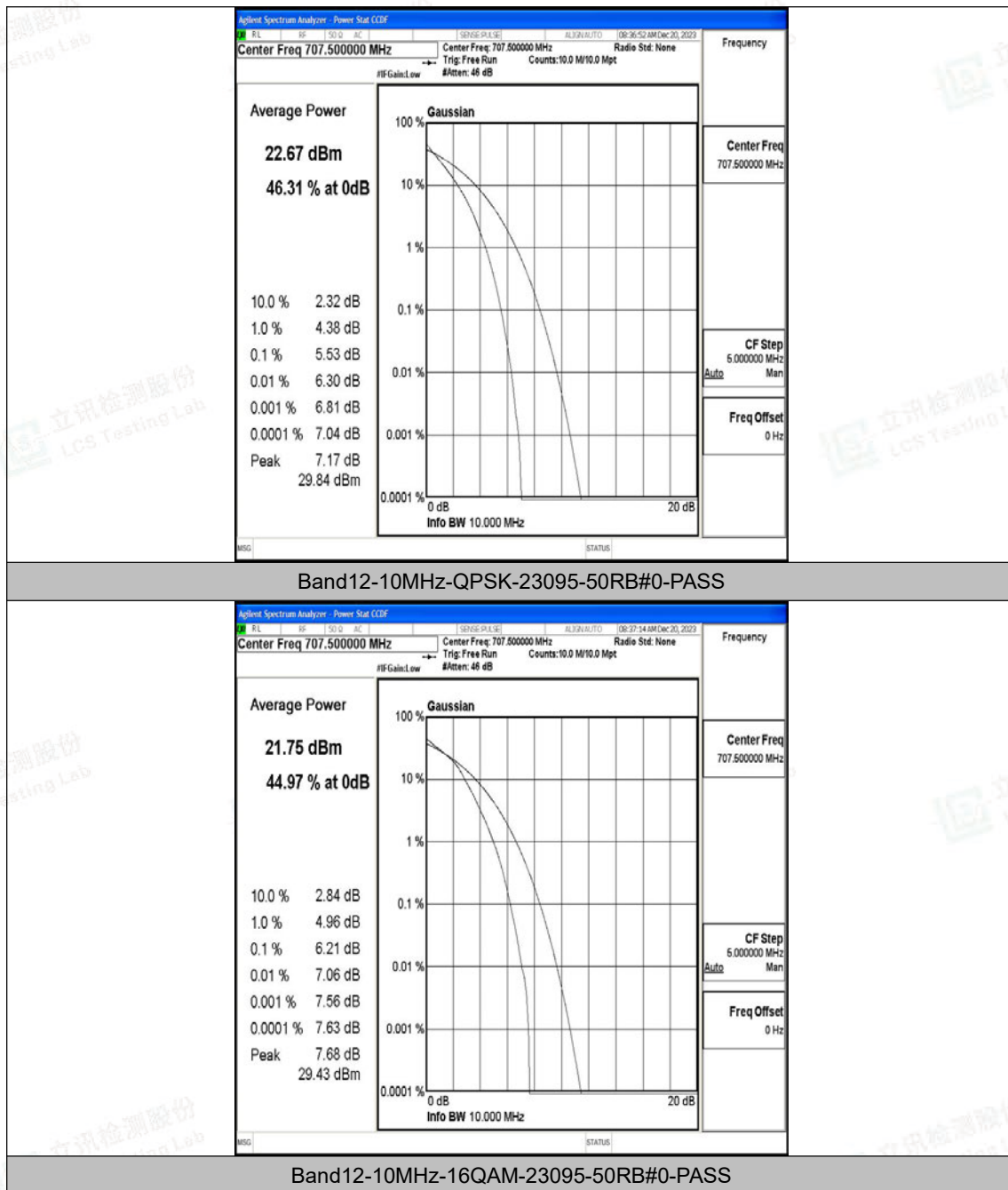


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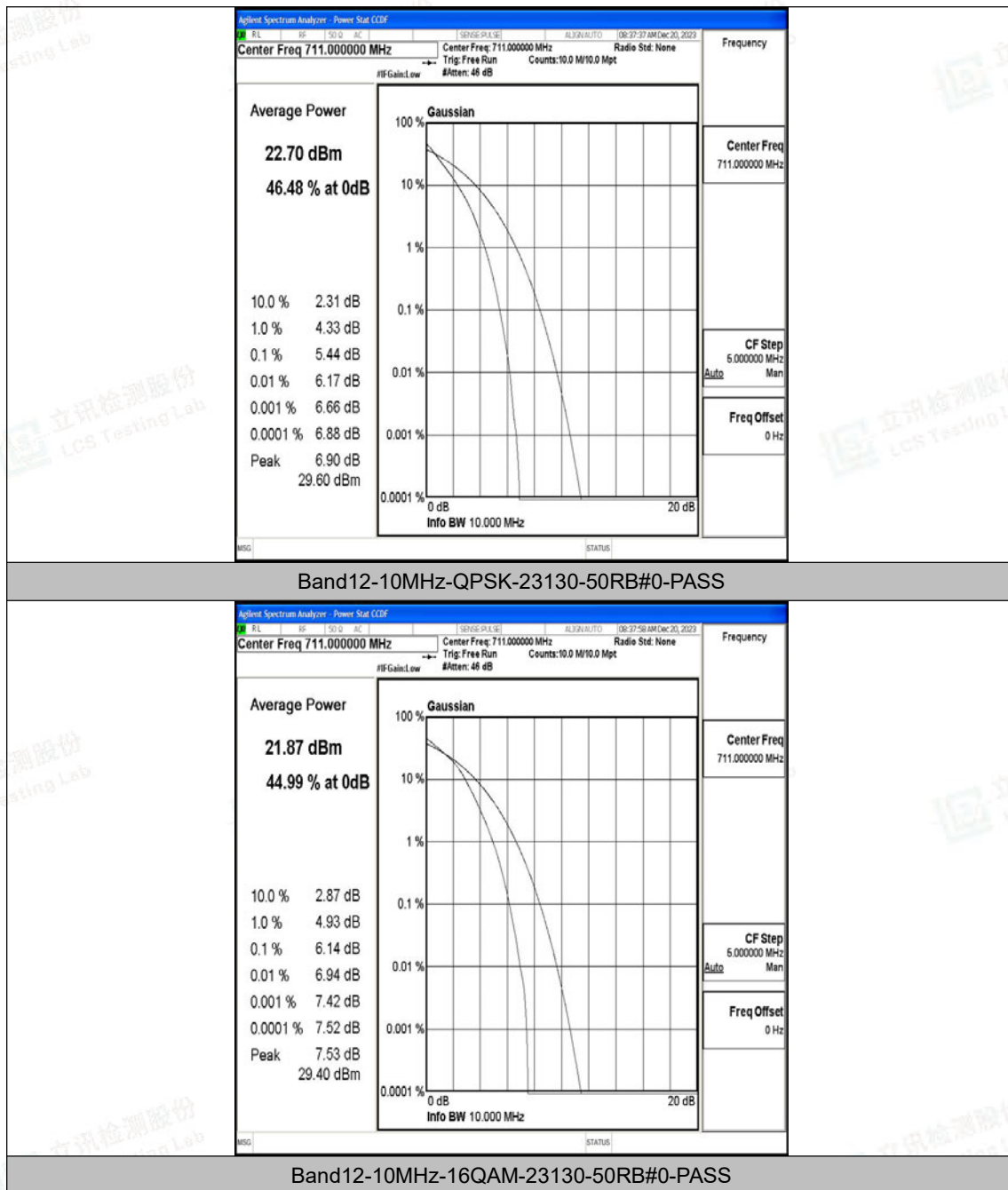


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D.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0955	1.301	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1023	1.285	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.1002	1.279	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1038	1.294	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0952	1.264	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1044	1.345	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7128	3.202	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6997	3.109	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7042	3.150	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6963	3.130	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7167	3.071	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7045	3.042	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5178	5.344	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5216	5.323	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5233	5.353	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5227	5.267	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5177	5.287	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5254	5.216	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9849	10.15	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9850	10.15	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9945	10.11	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9887	10.05	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9996	10.01	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9956	10.14	PASS



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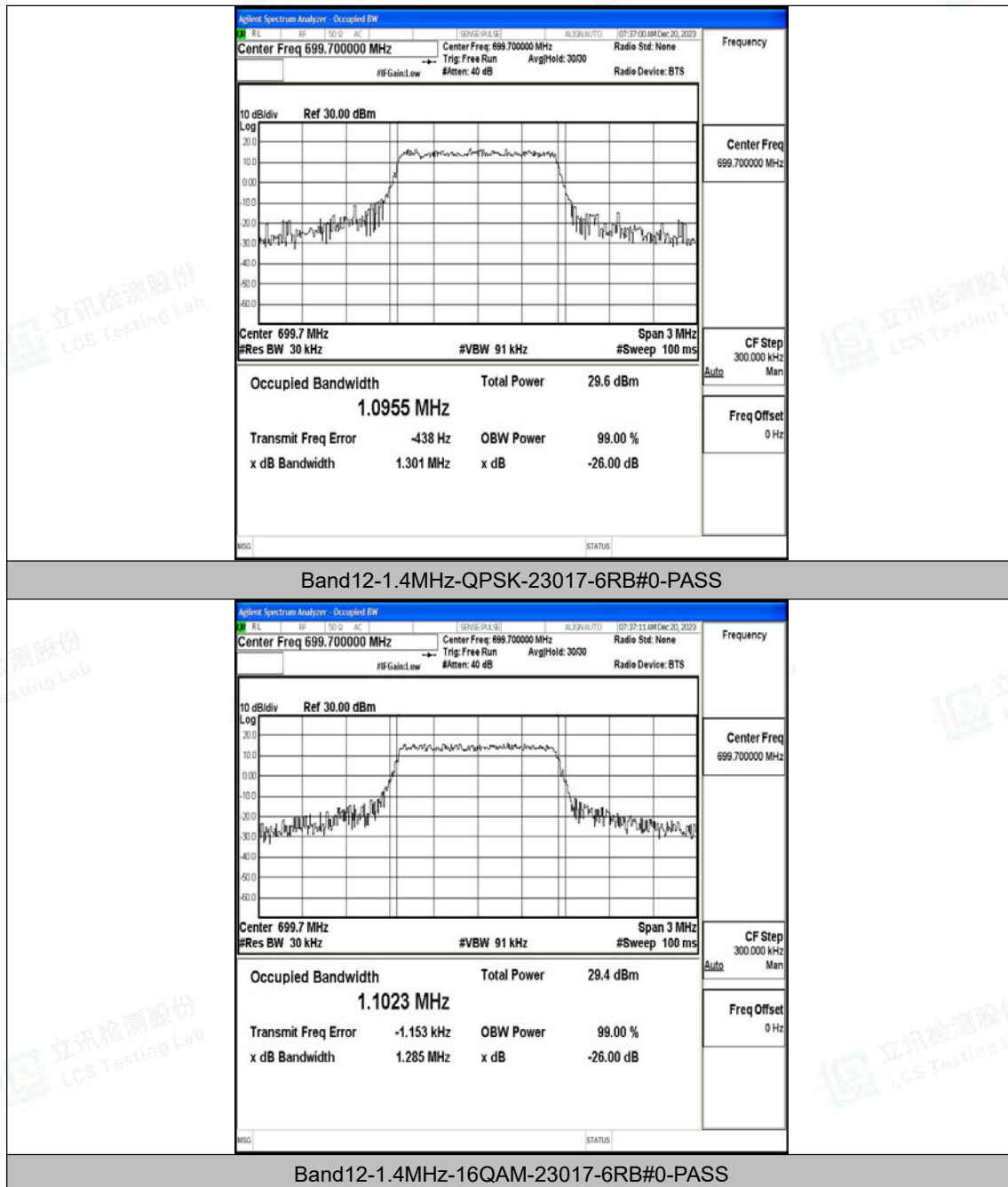
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Test Graphs

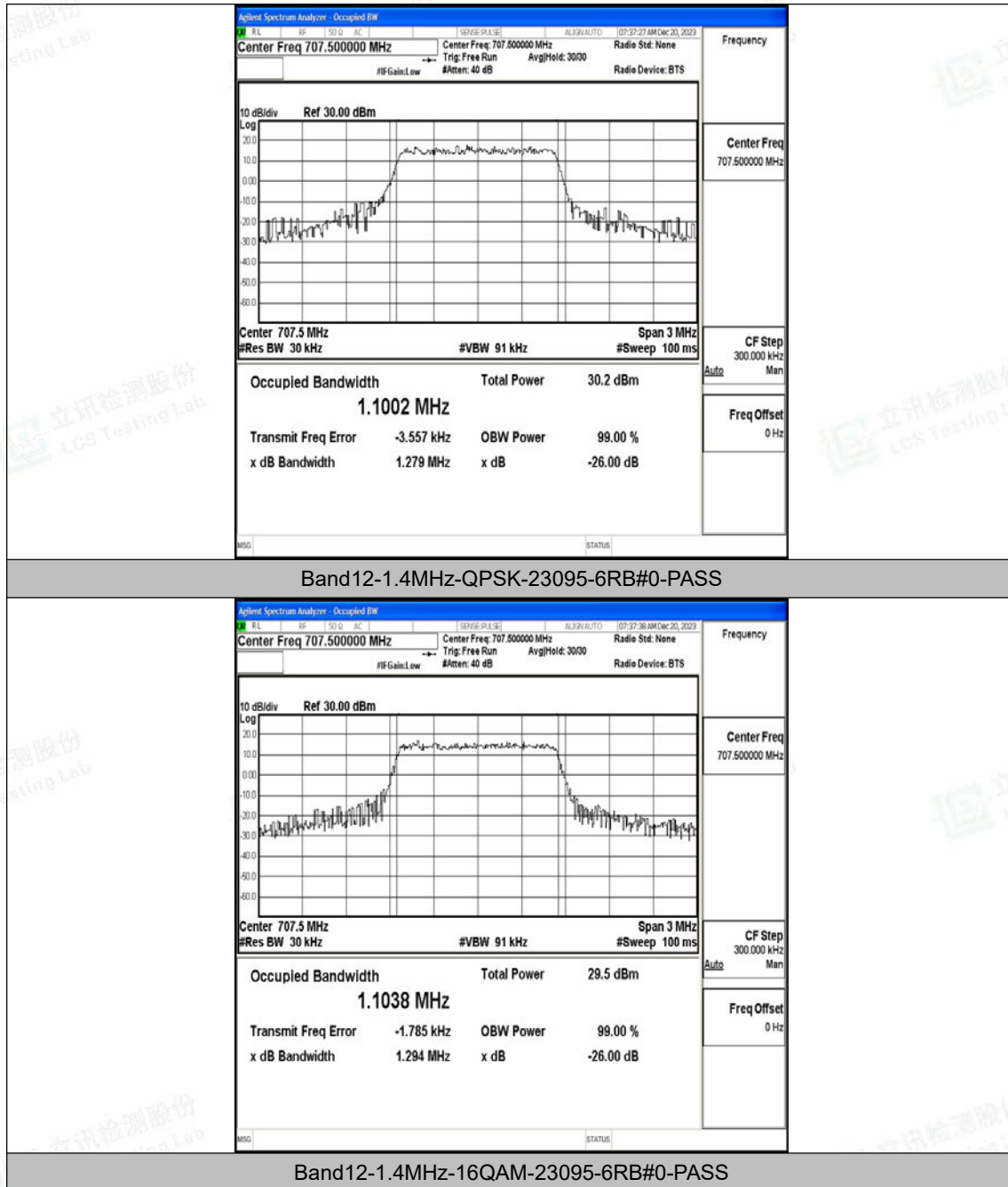


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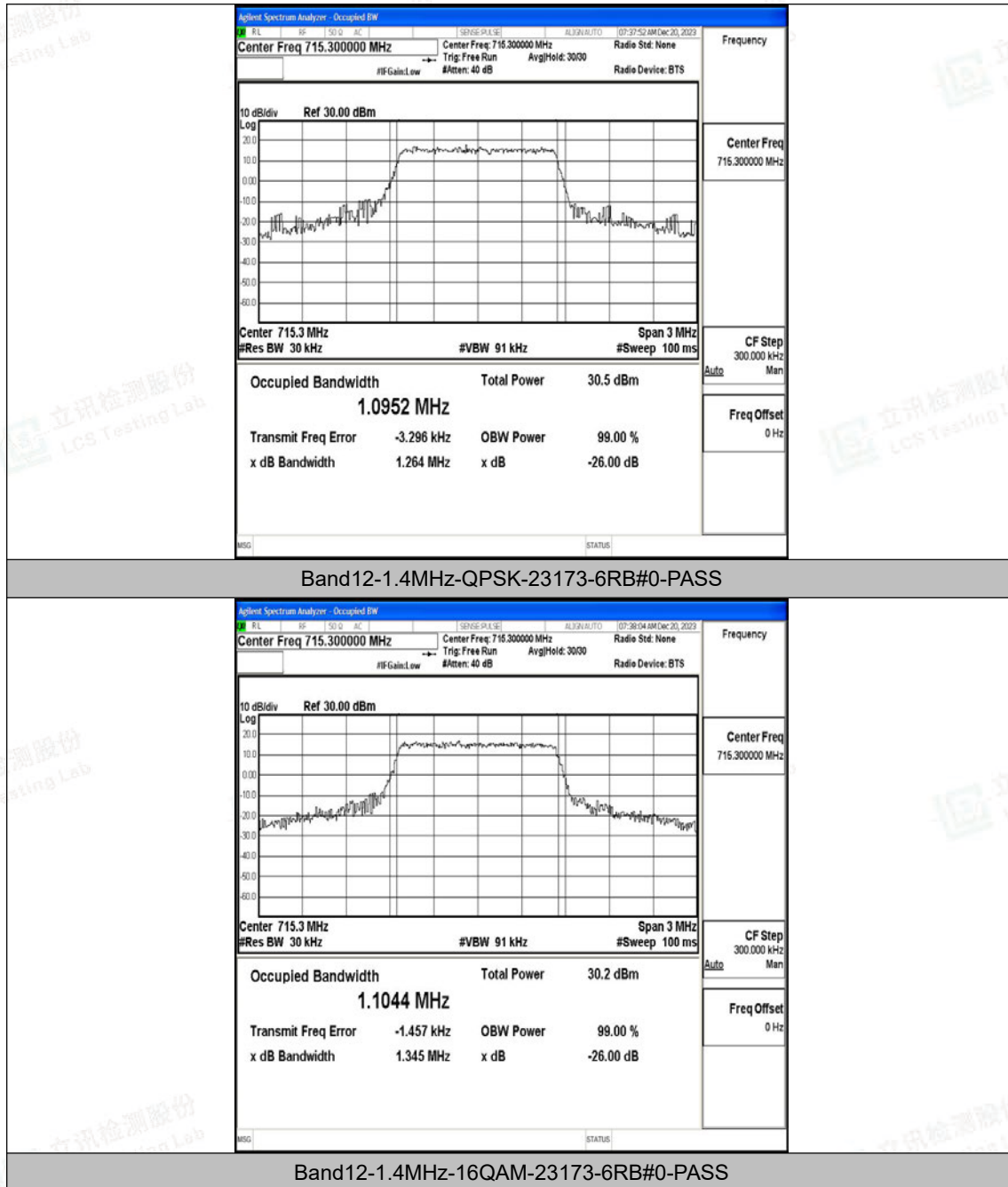


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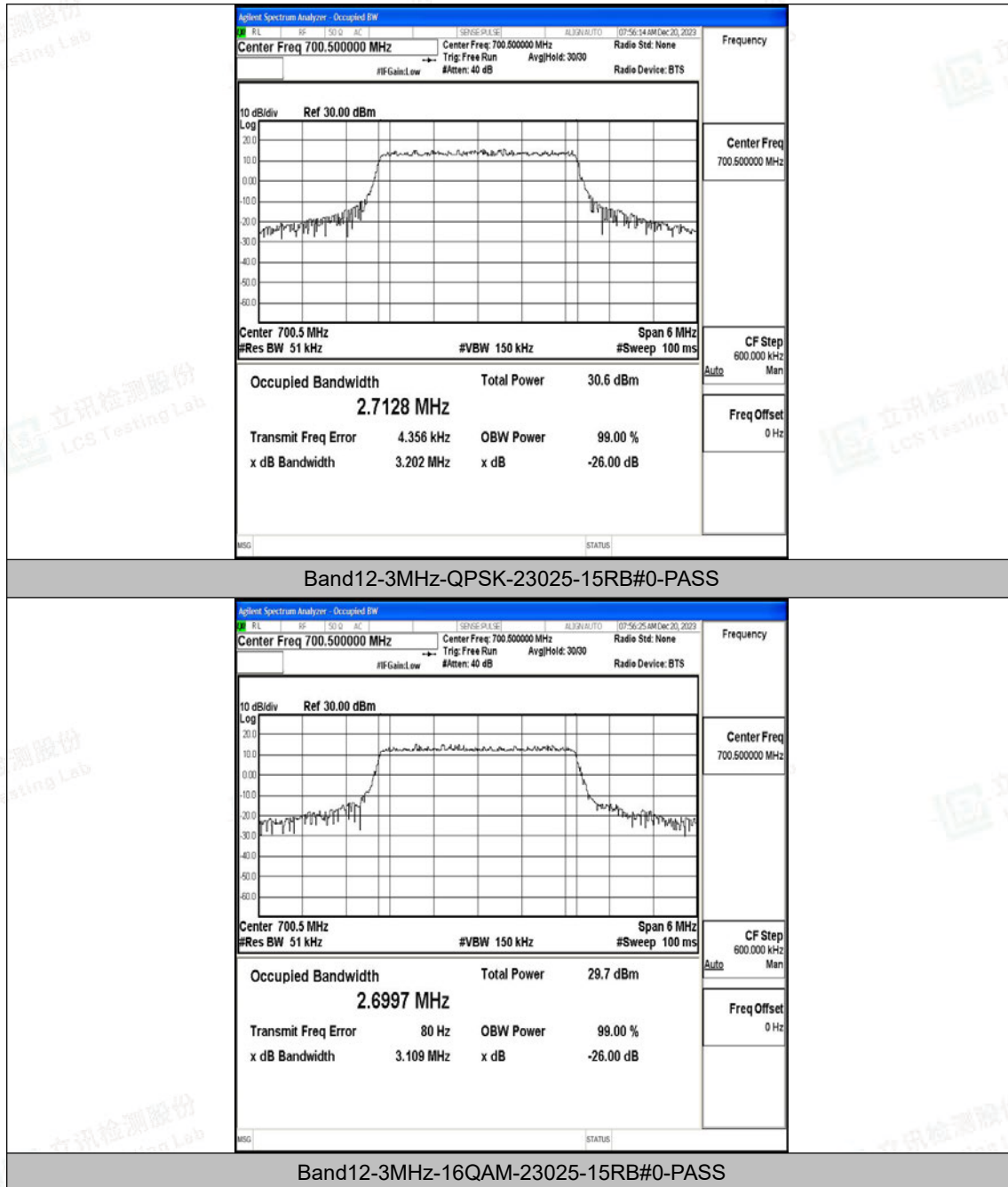


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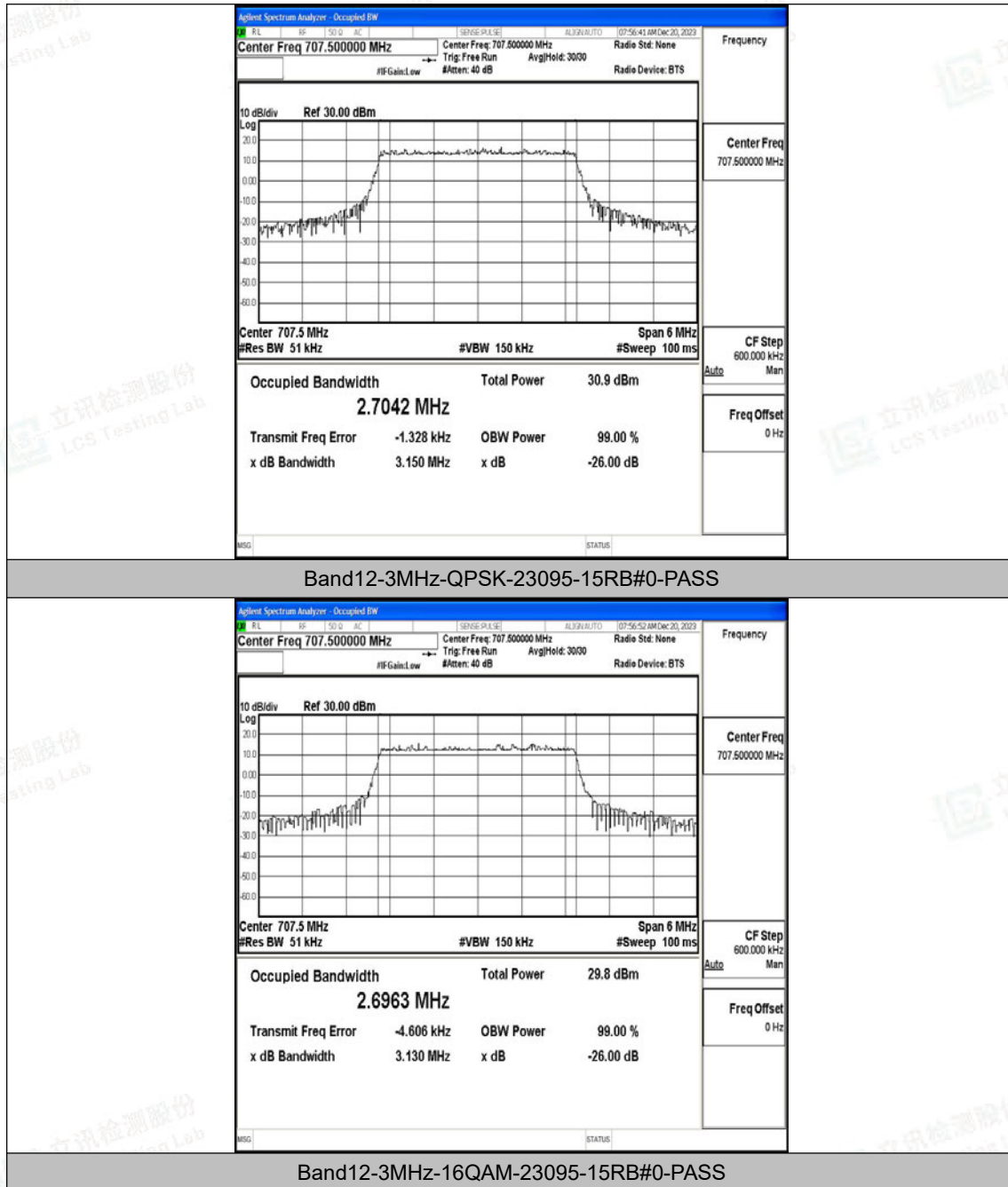


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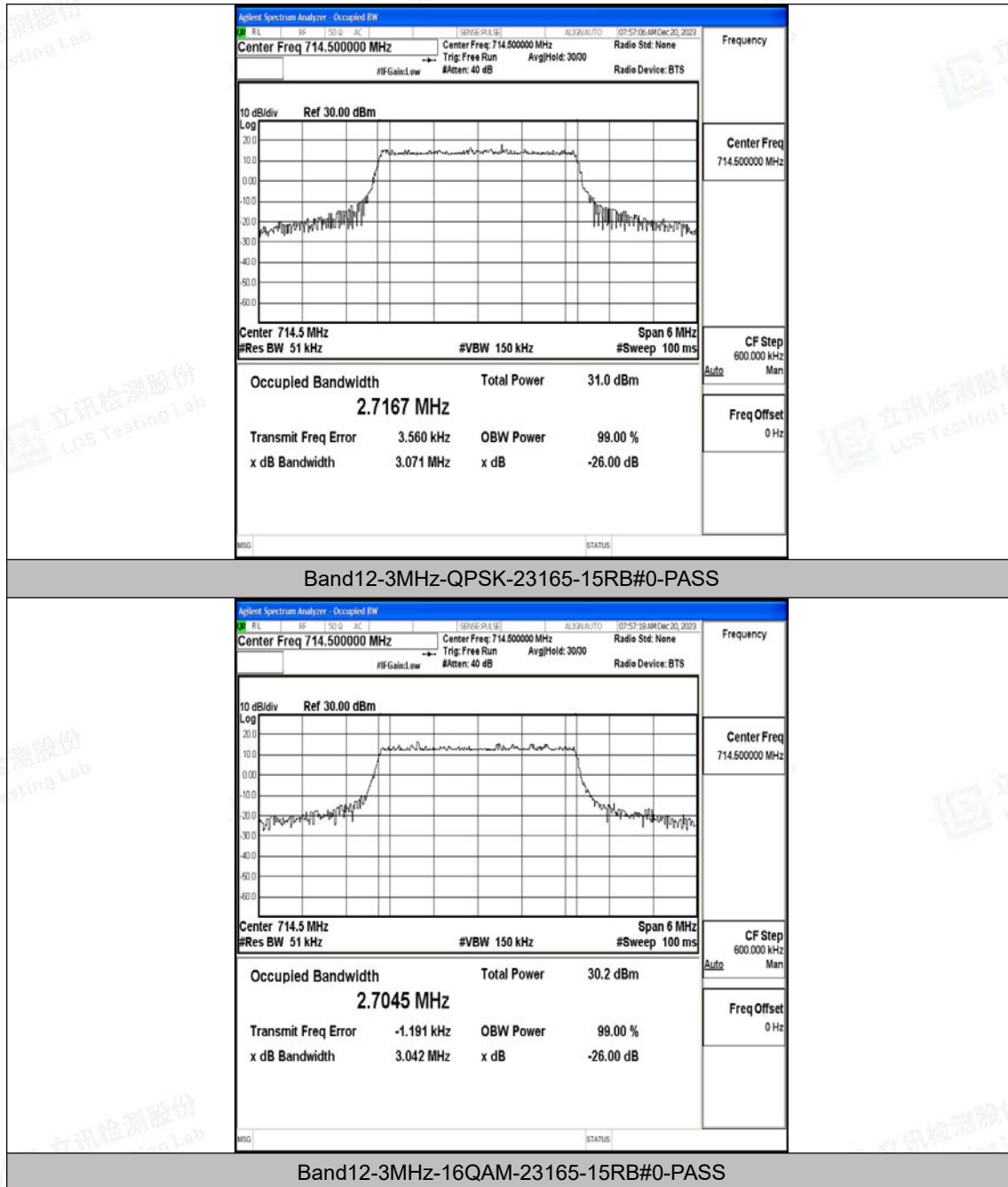


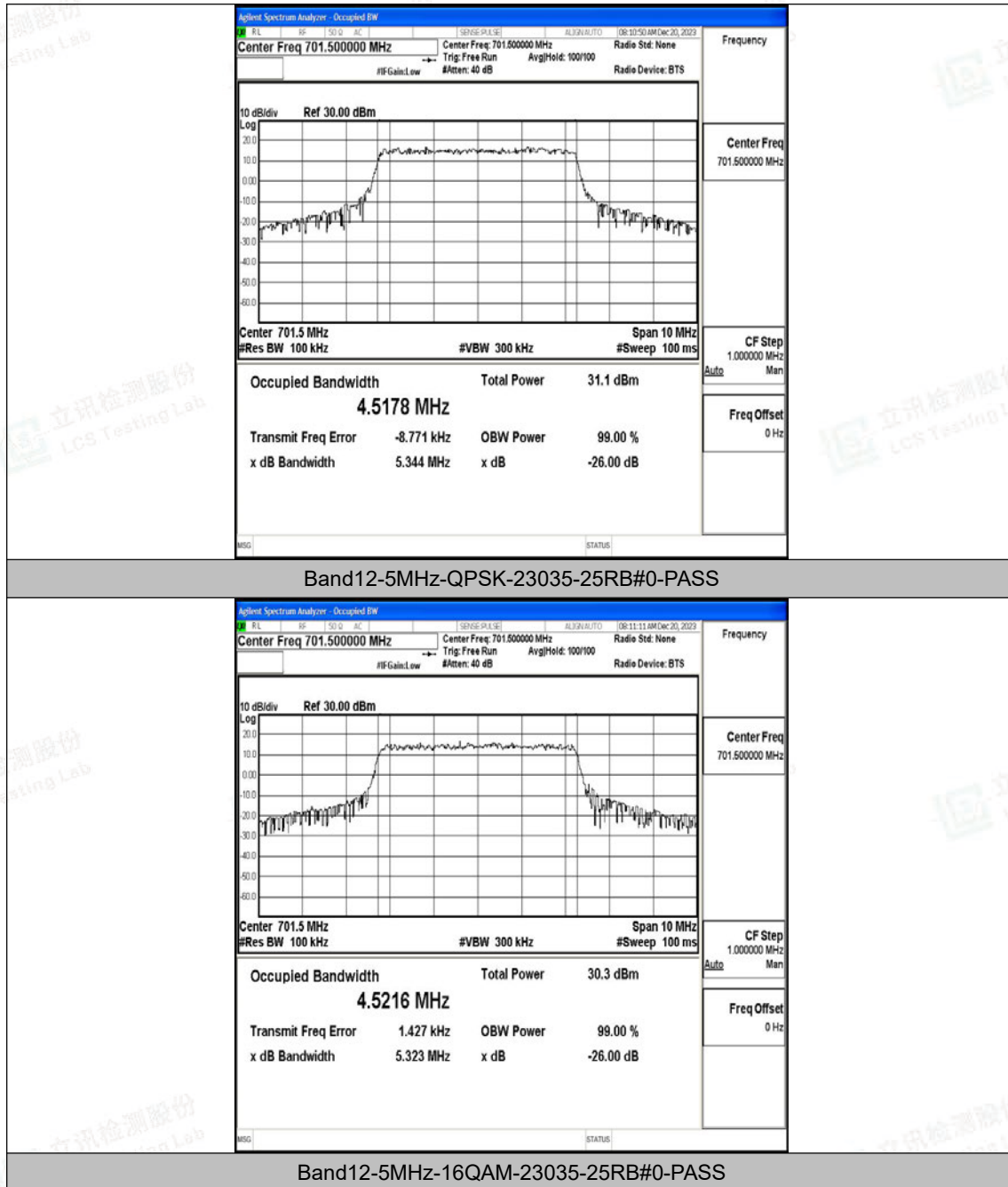
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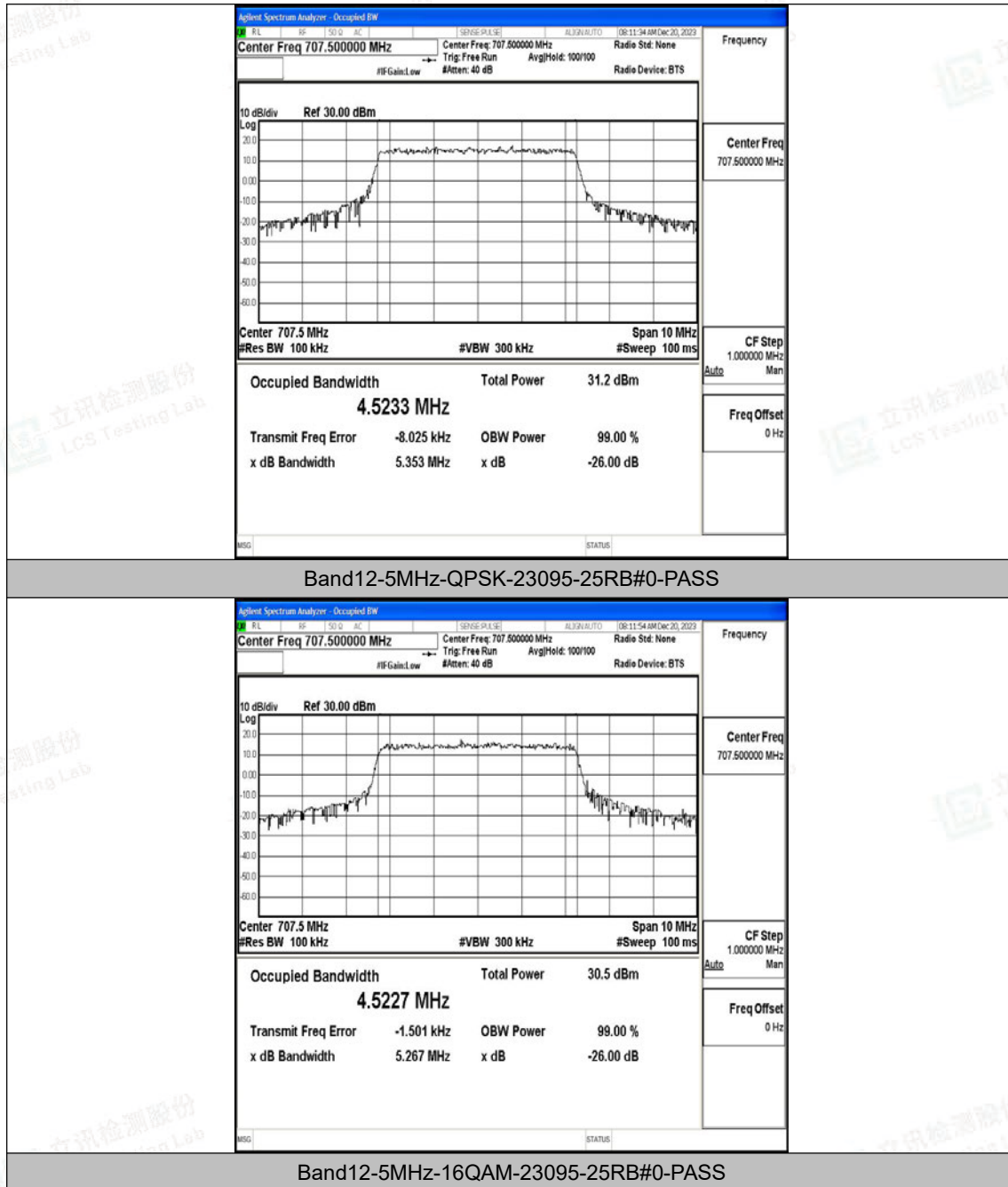
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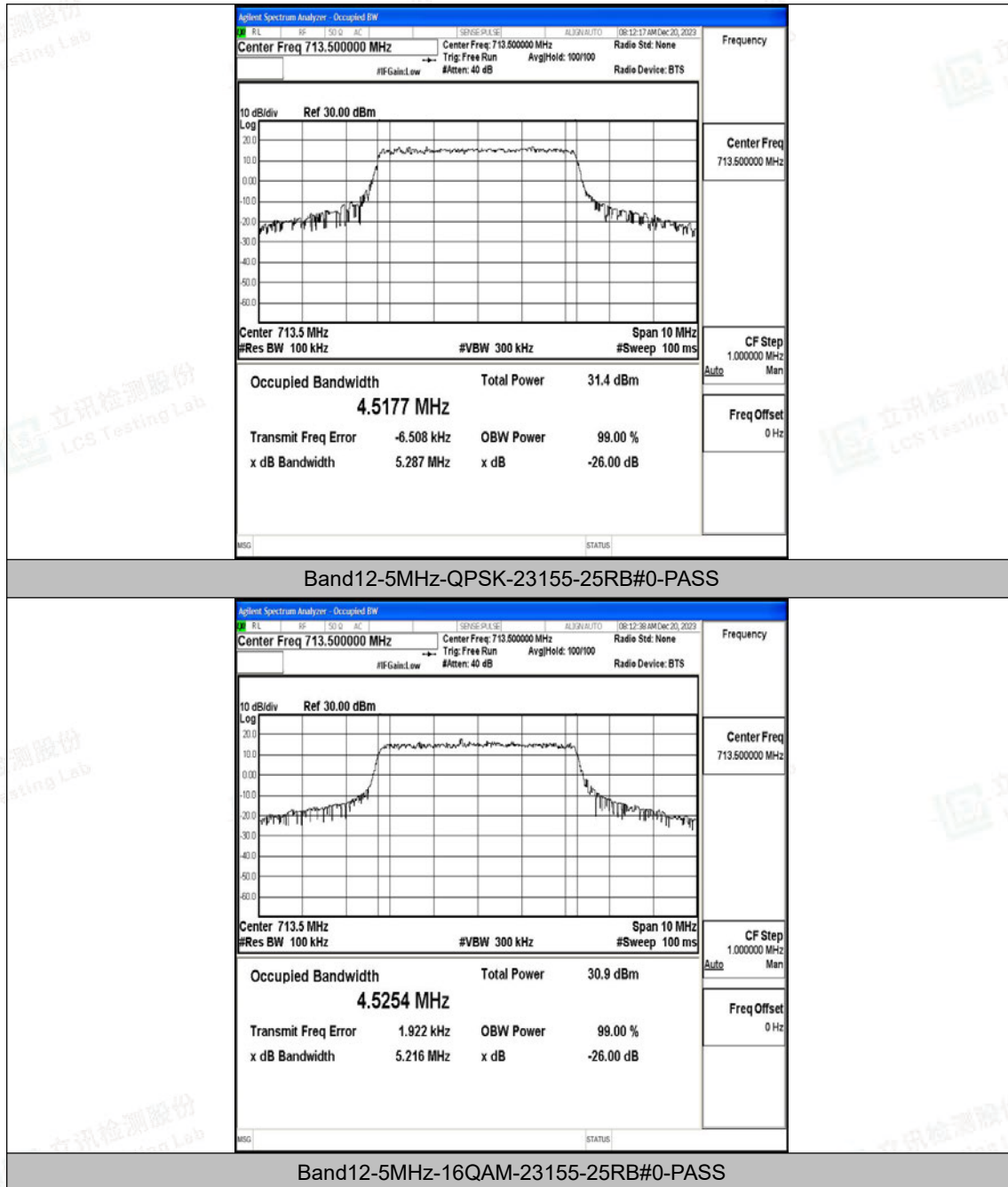


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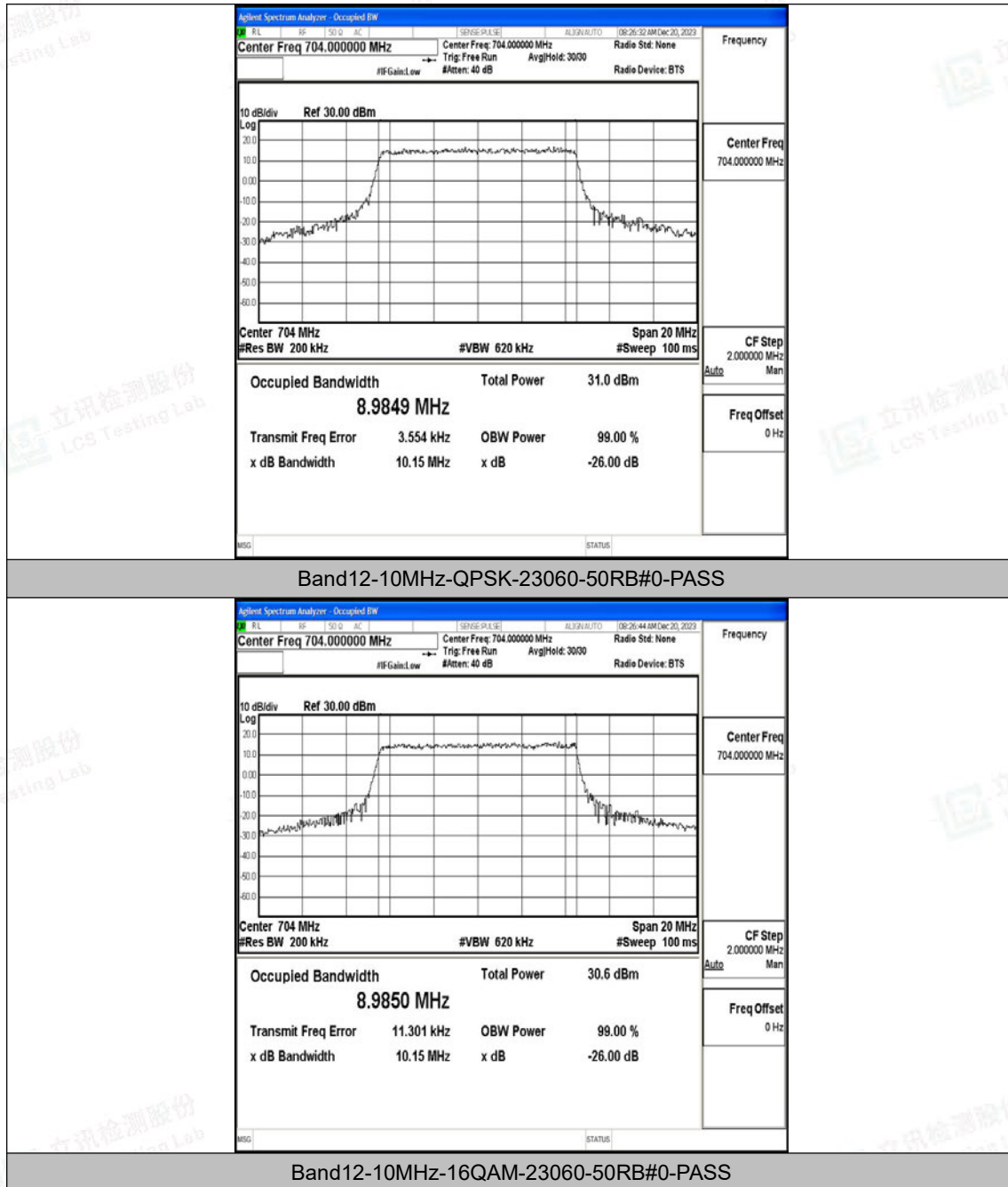


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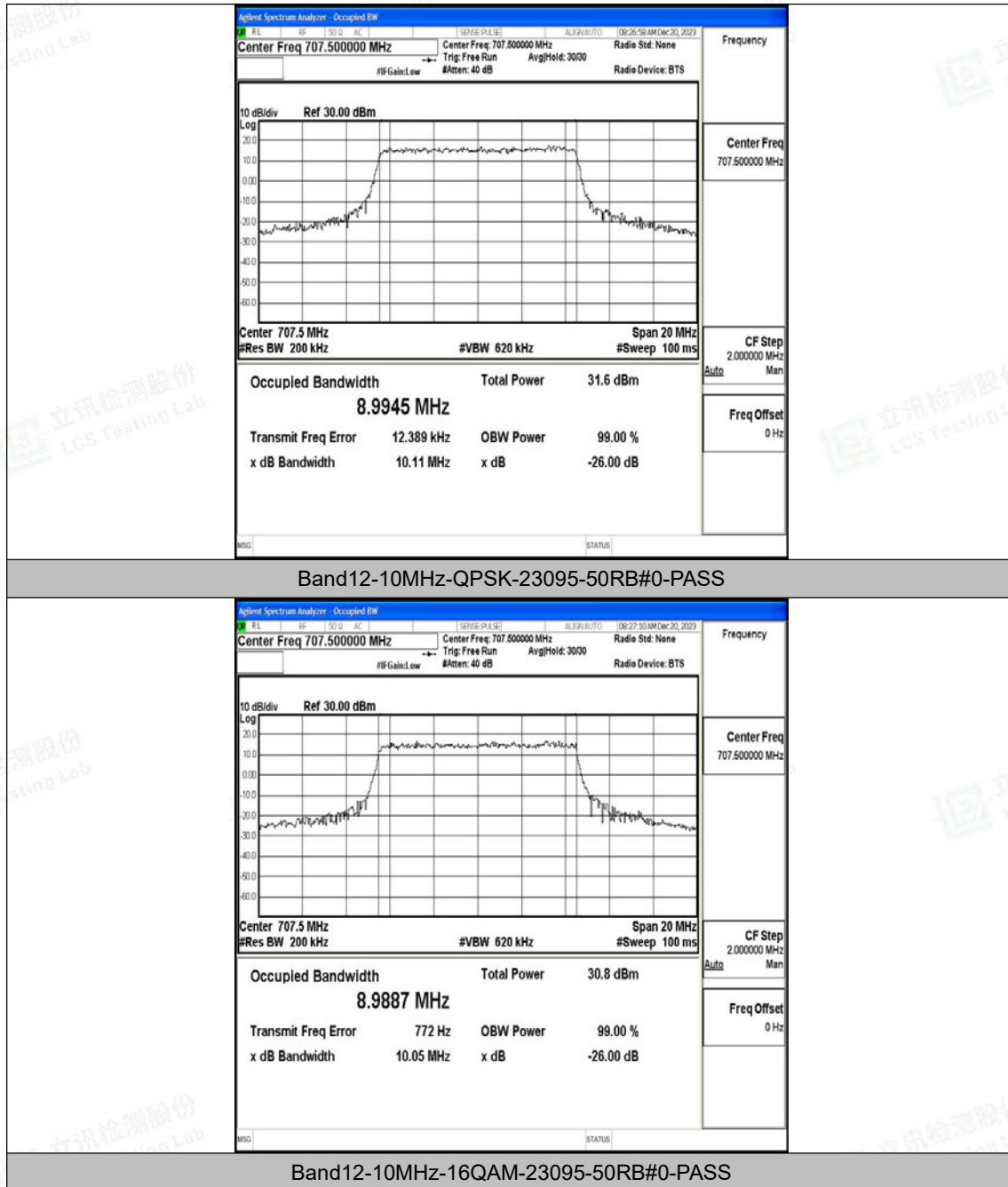


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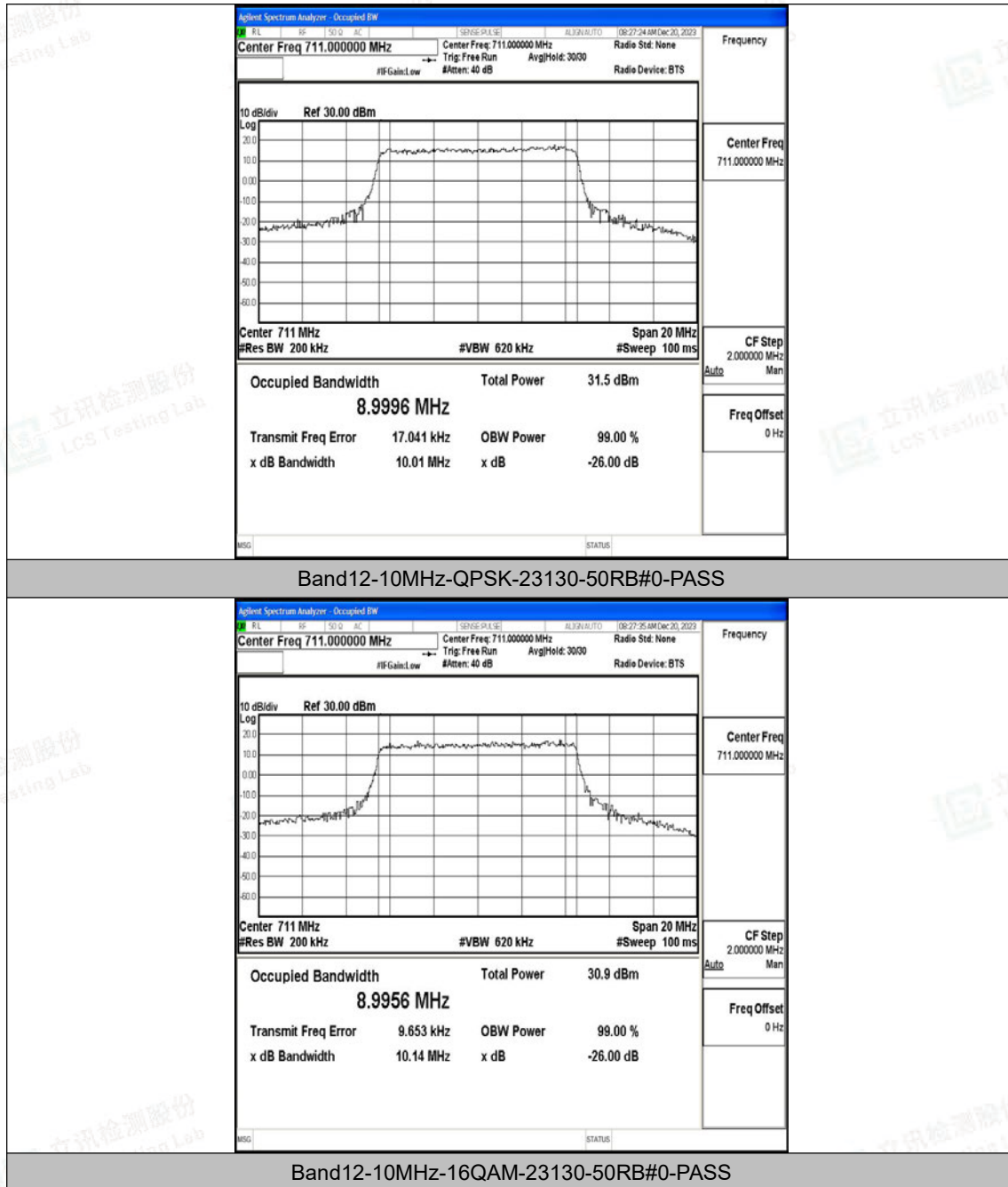


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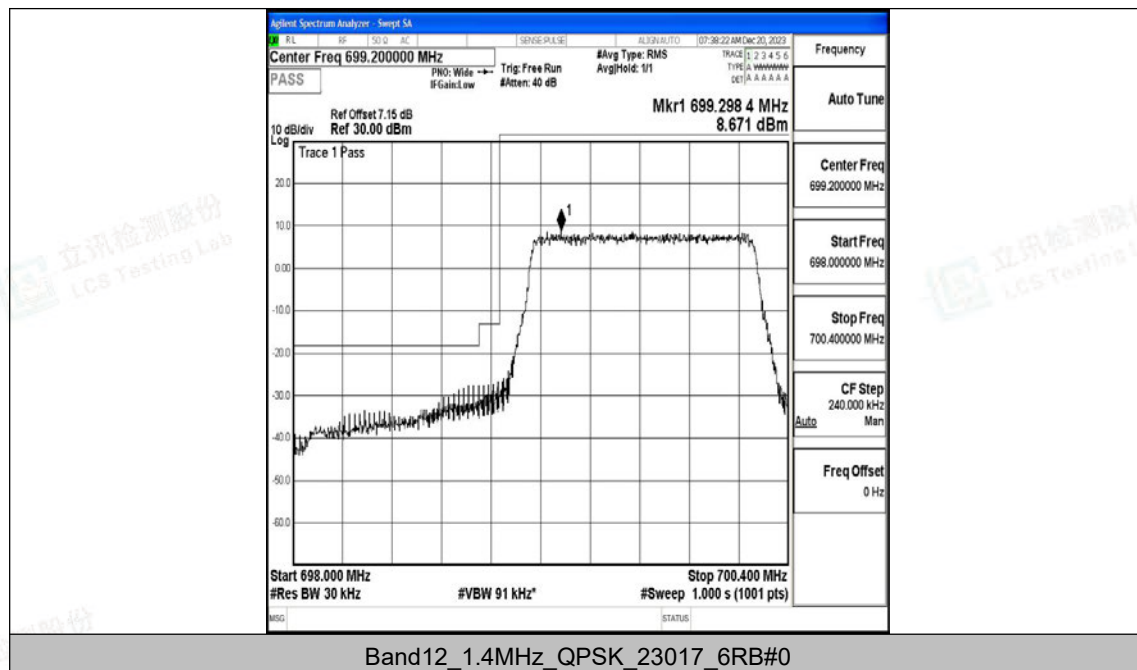


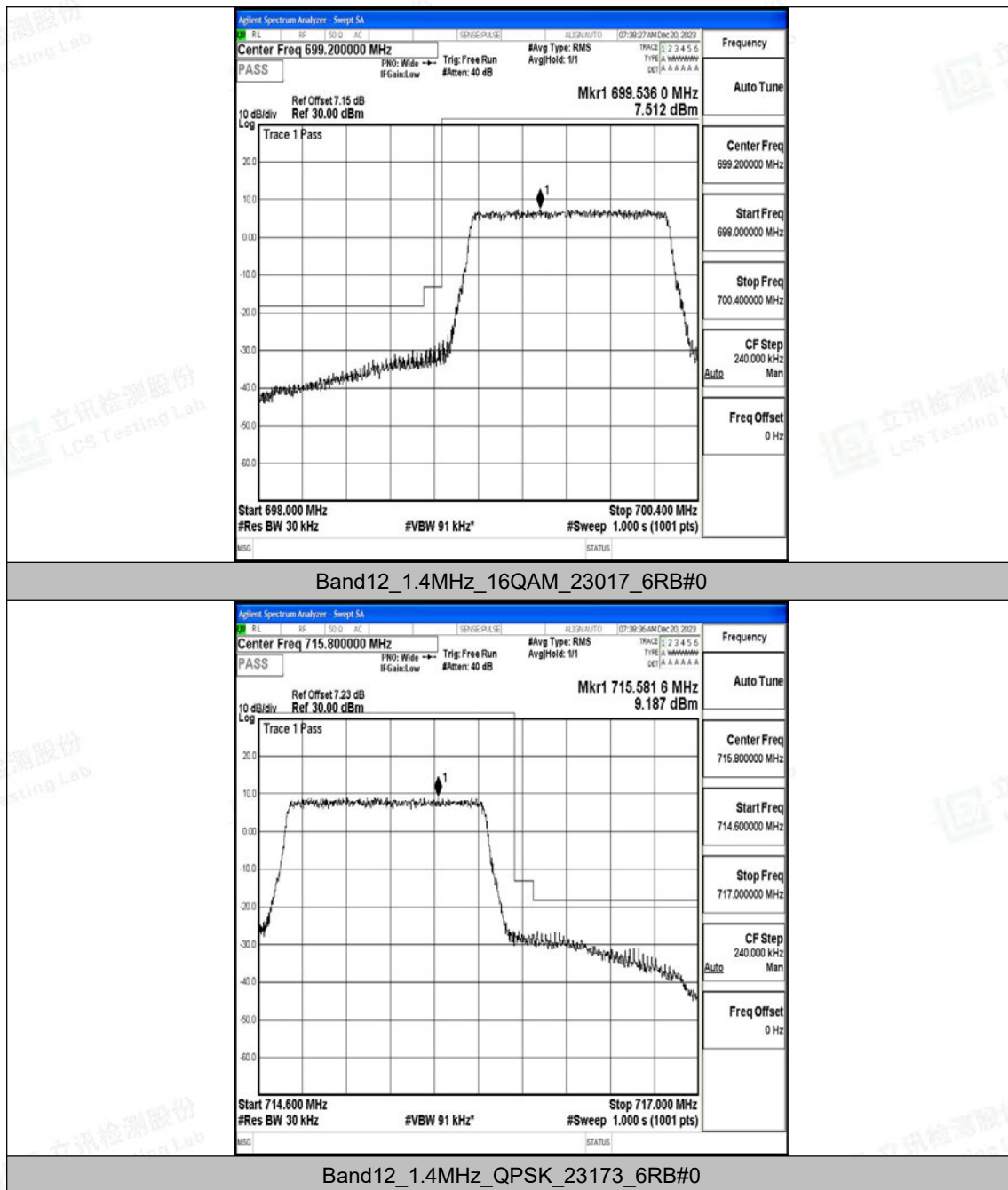
D.4 Band Edge

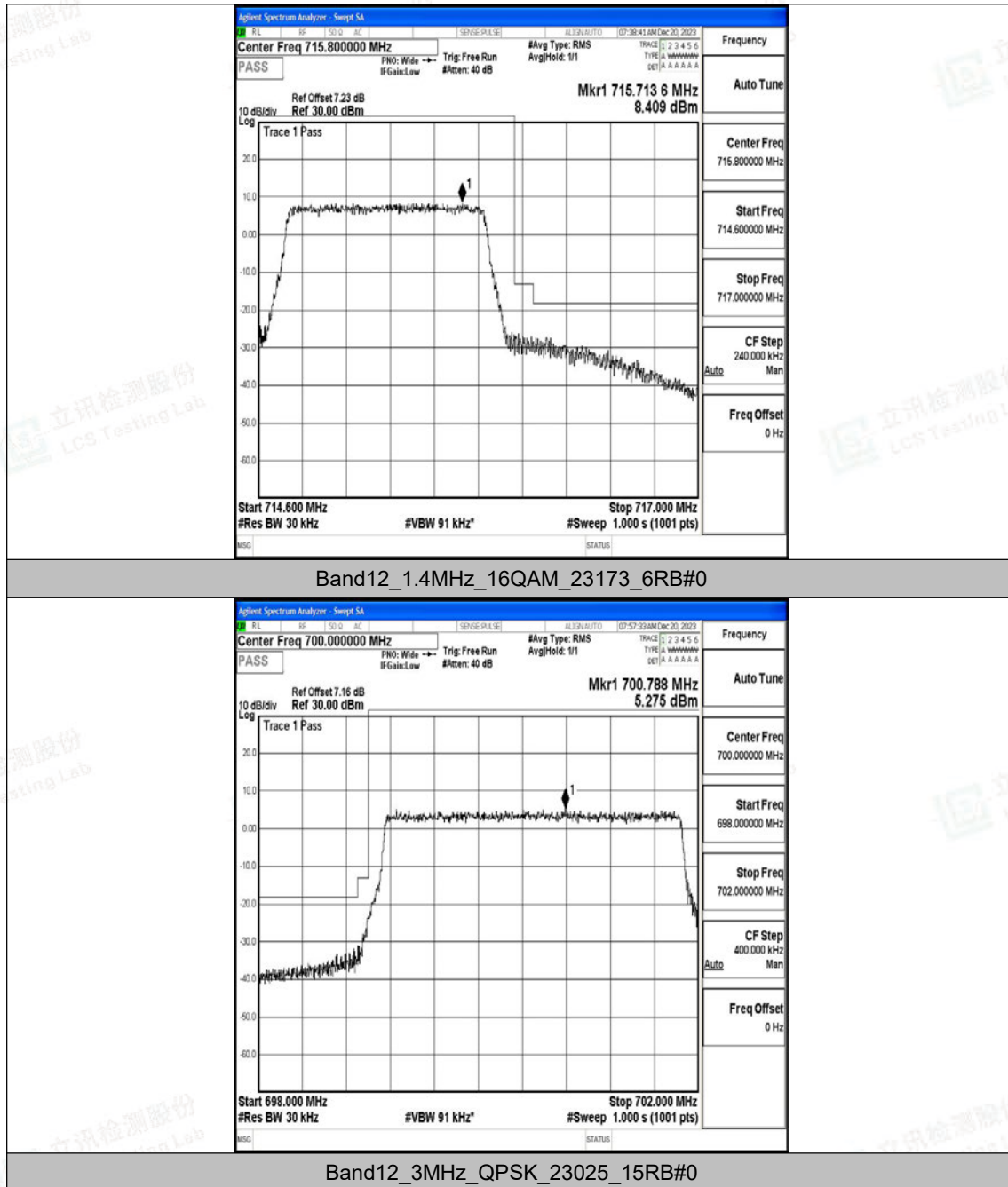
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	698.90	-27.62	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	698.84	-30.24	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	716.12	-26.50	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	716.17	-27.34	PASS
Band12	3MHz	QPSK	23025	15RB#0	699.00	-23.65	PASS
Band12	3MHz	16QAM	23025	15RB#0	698.99	-25.68	PASS
Band12	3MHz	QPSK	23165	15RB#0	716.00	-23.00	PASS
Band12	3MHz	16QAM	23165	15RB#0	716.00	-24.15	PASS
Band12	5MHz	QPSK	23035	25RB#0	698.87	-34.96	PASS
Band12	5MHz	16QAM	23035	25RB#0	698.86	-35.63	PASS
Band12	5MHz	QPSK	23155	25RB#0	716.10	-34.38	PASS
Band12	5MHz	16QAM	23155	25RB#0	716.10	-34.01	PASS
Band12	10MHz	QPSK	23060	50RB#0	698.77	-39.53	PASS
Band12	10MHz	16QAM	23060	50RB#0	698.88	-40.75	PASS
Band12	10MHz	QPSK	23130	50RB#0	716.14	-40.35	PASS
Band12	10MHz	16QAM	23130	50RB#0	716.18	-39.72	PASS

Test Graphs





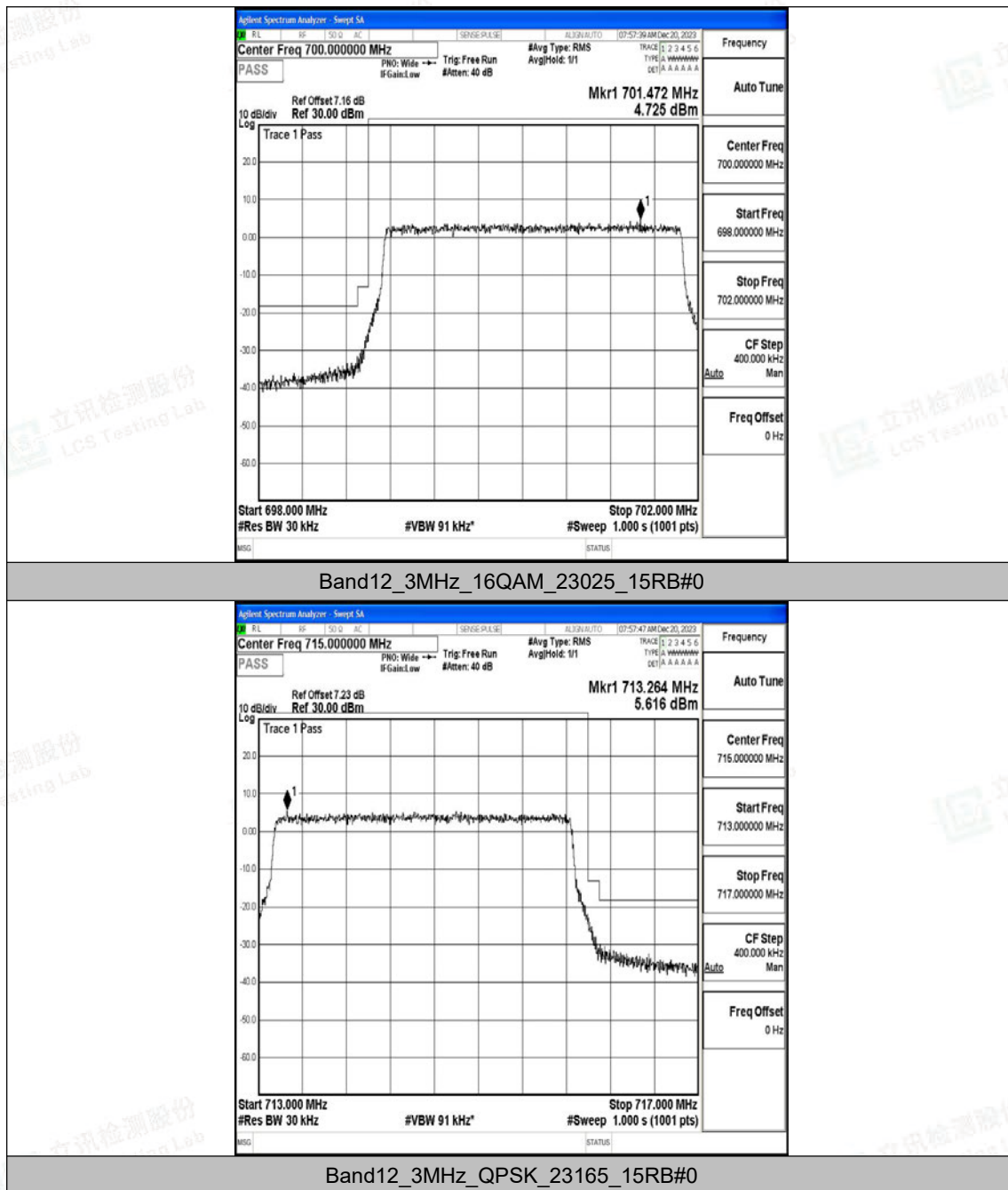


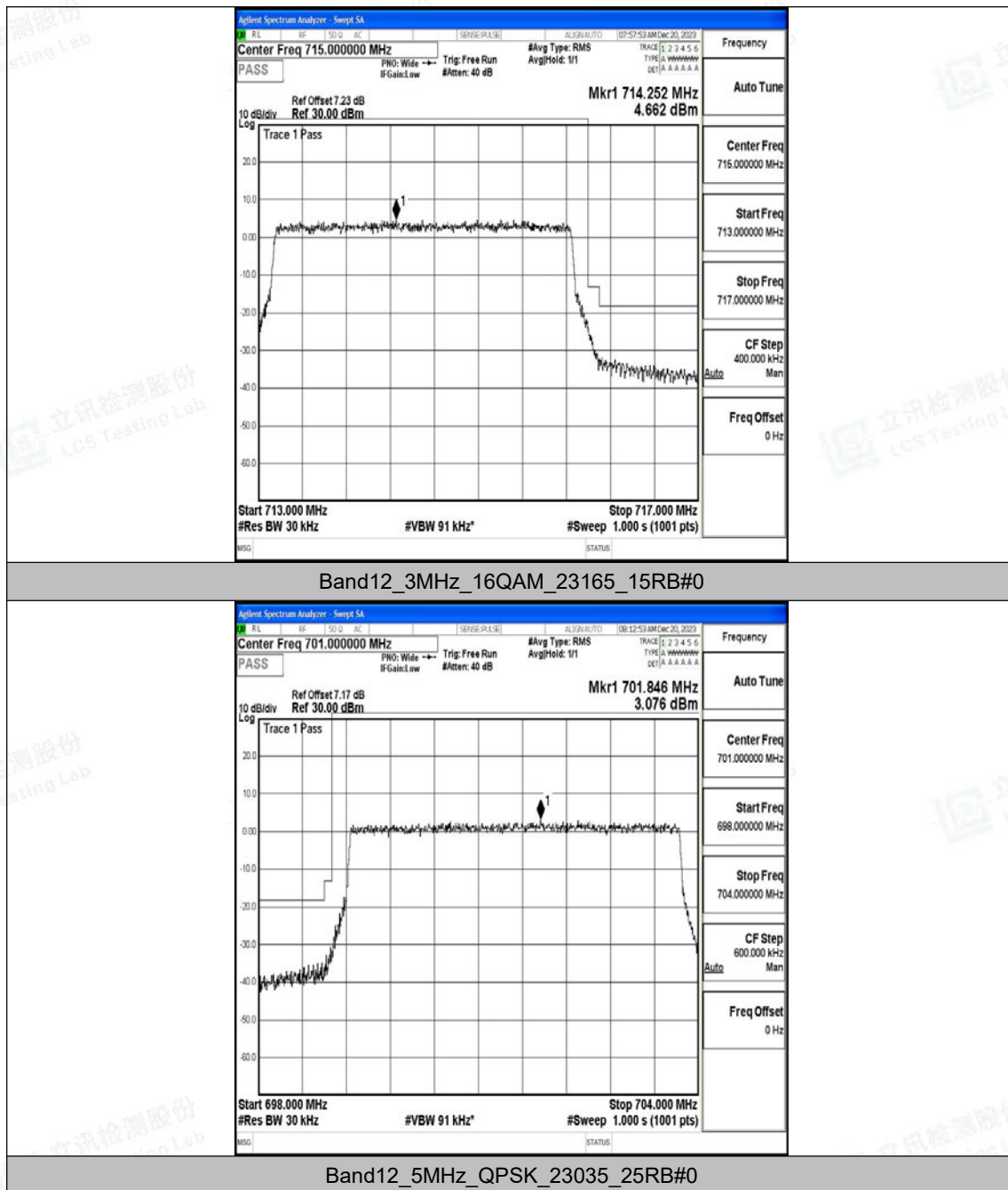
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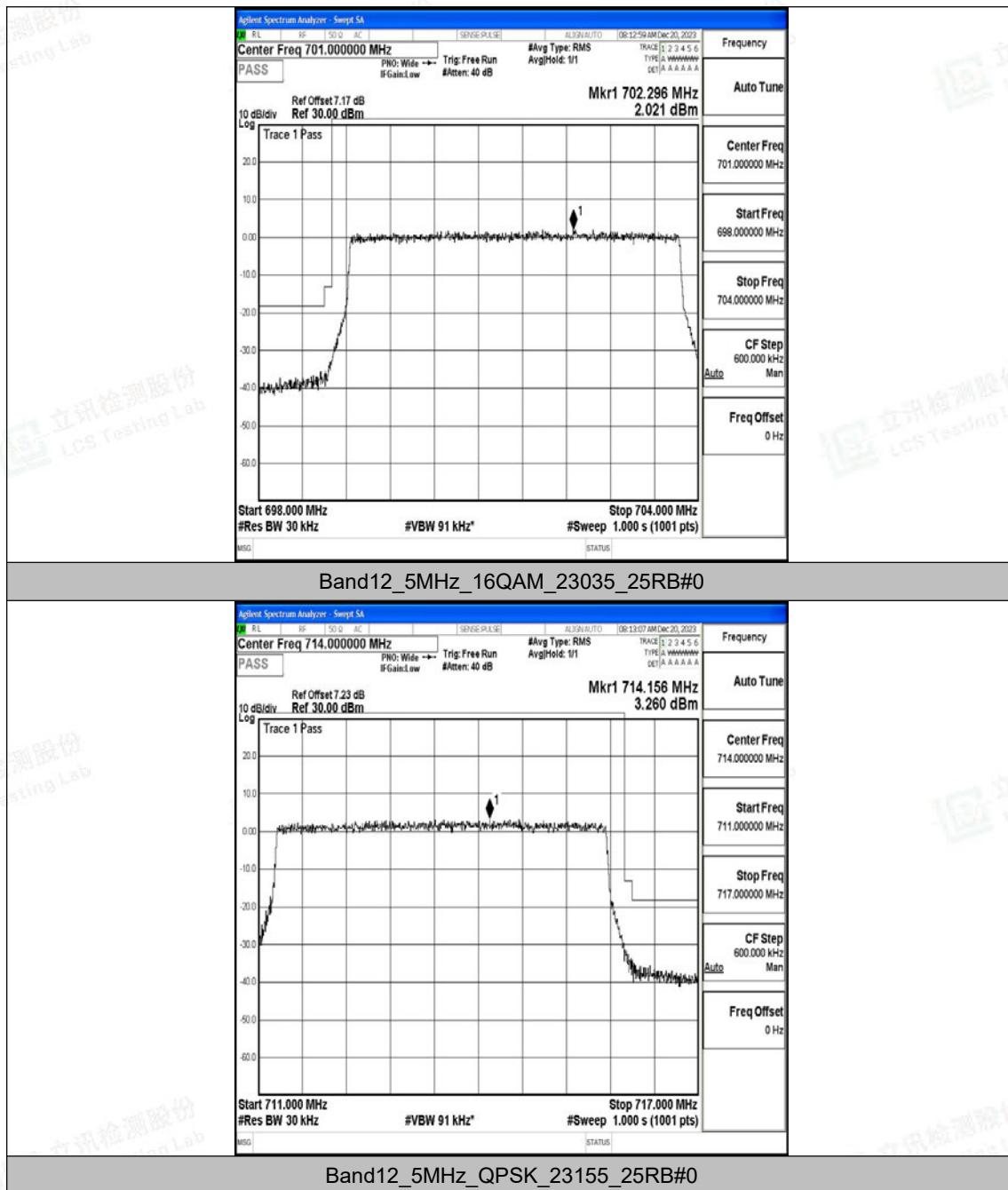
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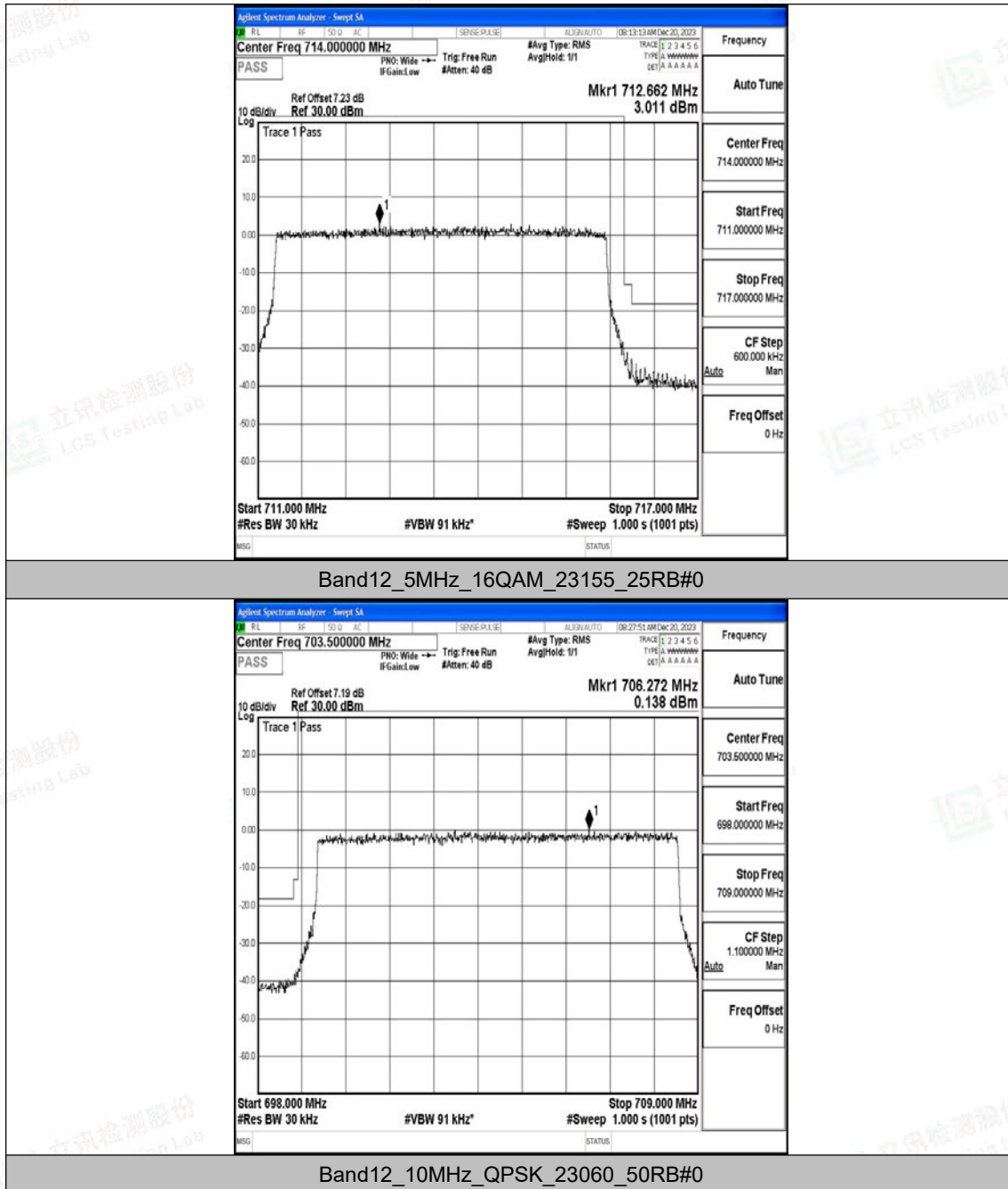
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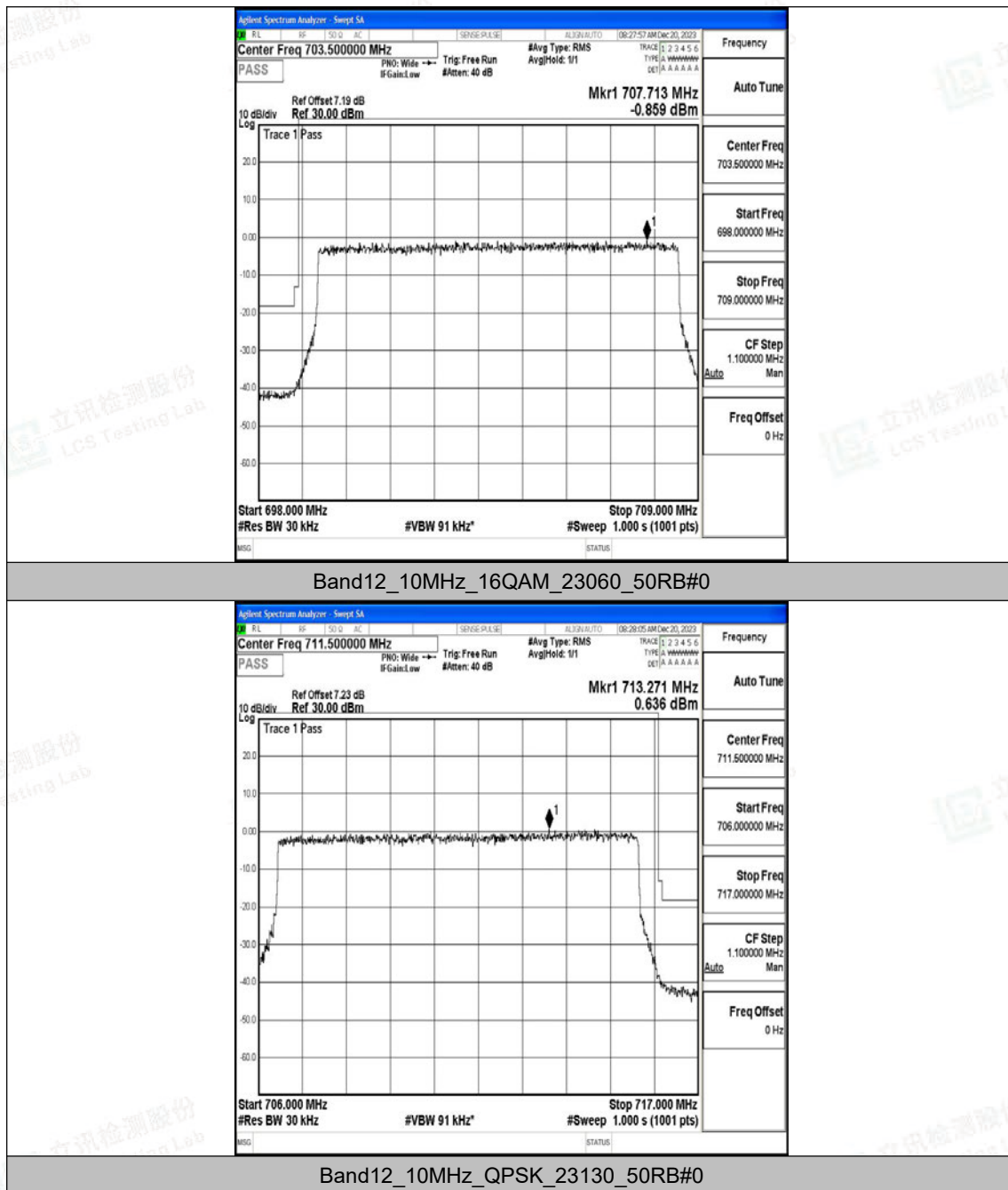
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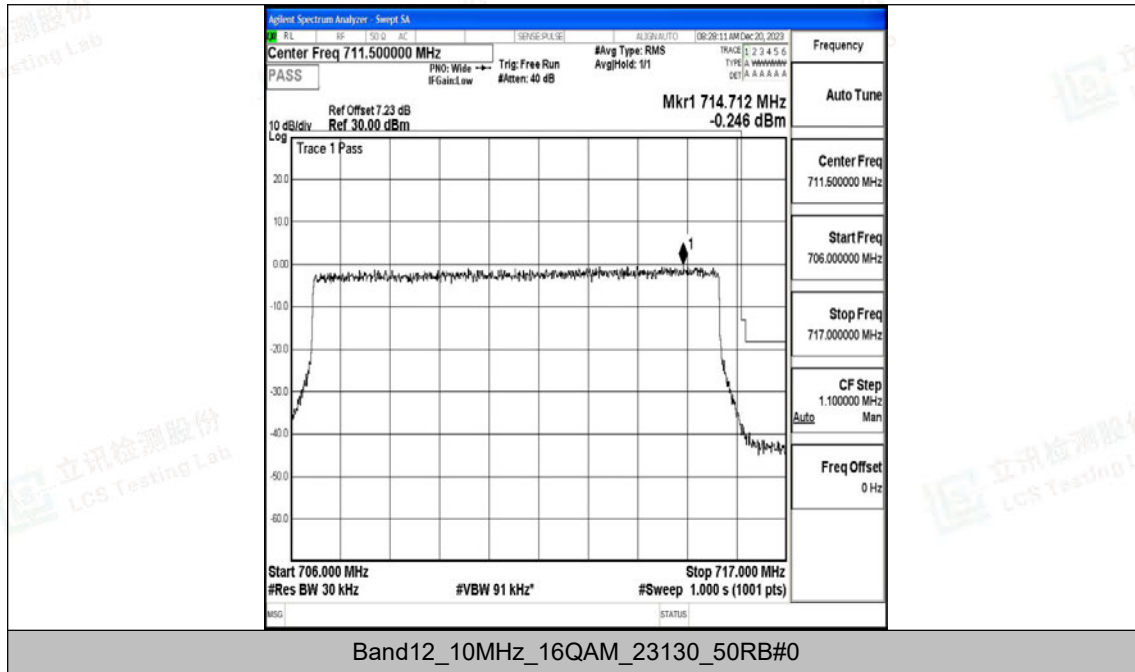


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D.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	0.009~0.15	-60.46	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	0.15~30	-53.07	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-45.67	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~3000	-43.71	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	3000~10000	-44.06	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	0.009~0.15	-58.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	0.15~30	-53.56	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	30~1000	-47.25	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	1000~3000	-43.52	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	3000~10000	-44.19	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	0.009~0.15	-57.09	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	0.15~30	-52.88	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-46.76	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~3000	-44.88	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3000~10000	-44.20	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	0.009~0.15	-59.50	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	0.15~30	-52.12	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	30~1000	-40.39	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	1000~3000	-43.99	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	3000~10000	-44.12	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	0.009~0.15	-57.32	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	0.15~30	-51.47	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-45.75	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~3000	-44.27	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3000~10000	-43.71	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	0.009~0.15	-58.04	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	0.15~30	-53.78	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	30~1000	-46.45	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	1000~3000	-43.36	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	3000~10000	-43.96	PASS
Band12	3MHz	QPSK	23025	1RB#0	0.009~0.15	-56.73	PASS
Band12	3MHz	QPSK	23025	1RB#0	0.15~30	-53.98	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-48.12	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~3000	-43.82	PASS
Band12	3MHz	QPSK	23025	1RB#0	3000~10000	-44.01	PASS



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Band12	3MHz	16QAM	23025	1RB#0	0.009~0.15	-58.01	PASS
Band12	3MHz	16QAM	23025	1RB#0	0.15~30	-53.10	PASS
Band12	3MHz	16QAM	23025	1RB#0	30~1000	-49.92	PASS
Band12	3MHz	16QAM	23025	1RB#0	1000~3000	-44.70	PASS
Band12	3MHz	16QAM	23025	1RB#0	3000~10000	-44.04	PASS
Band12	3MHz	QPSK	23095	1RB#0	0.009~0.15	-56.15	PASS
Band12	3MHz	QPSK	23095	1RB#0	0.15~30	-50.93	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-49.33	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~3000	-44.91	PASS
Band12	3MHz	QPSK	23095	1RB#0	3000~10000	-44.39	PASS
Band12	3MHz	16QAM	23095	1RB#0	0.009~0.15	-57.28	PASS
Band12	3MHz	16QAM	23095	1RB#0	0.15~30	-52.06	PASS
Band12	3MHz	16QAM	23095	1RB#0	30~1000	-49.60	PASS
Band12	3MHz	16QAM	23095	1RB#0	1000~3000	-45.30	PASS
Band12	3MHz	16QAM	23095	1RB#0	3000~10000	-43.84	PASS
Band12	3MHz	QPSK	23165	1RB#0	0.009~0.15	-57.86	PASS
Band12	3MHz	QPSK	23165	1RB#0	0.15~30	-52.68	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-49.89	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~3000	-42.91	PASS
Band12	3MHz	QPSK	23165	1RB#0	3000~10000	-44.17	PASS
Band12	3MHz	16QAM	23165	1RB#0	0.009~0.15	-55.69	PASS
Band12	3MHz	16QAM	23165	1RB#0	0.15~30	-51.93	PASS
Band12	3MHz	16QAM	23165	1RB#0	30~1000	-48.08	PASS
Band12	3MHz	16QAM	23165	1RB#0	1000~3000	-43.36	PASS
Band12	3MHz	16QAM	23165	1RB#0	3000~10000	-44.46	PASS
Band12	5MHz	QPSK	23035	1RB#0	0.009~0.15	-52.84	PASS
Band12	5MHz	QPSK	23035	1RB#0	0.15~30	-51.30	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-56.54	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~3000	-43.88	PASS
Band12	5MHz	QPSK	23035	1RB#0	3000~10000	-44.03	PASS
Band12	5MHz	16QAM	23035	1RB#0	0.009~0.15	-59.49	PASS
Band12	5MHz	16QAM	23035	1RB#0	0.15~30	-53.01	PASS
Band12	5MHz	16QAM	23035	1RB#0	30~1000	-57.72	PASS
Band12	5MHz	16QAM	23035	1RB#0	1000~3000	-44.00	PASS
Band12	5MHz	16QAM	23035	1RB#0	3000~10000	-44.23	PASS
Band12	5MHz	QPSK	23095	1RB#0	0.009~0.15	-56.95	PASS
Band12	5MHz	QPSK	23095	1RB#0	0.15~30	-51.67	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-58.88	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~3000	-44.93	PASS
Band12	5MHz	QPSK	23095	1RB#0	3000~10000	-44.05	PASS



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Band12	5MHz	16QAM	23095	1RB#0	0.009~0.15	-56.62	PASS
Band12	5MHz	16QAM	23095	1RB#0	0.15~30	-52.21	PASS
Band12	5MHz	16QAM	23095	1RB#0	30~1000	-60.70	PASS
Band12	5MHz	16QAM	23095	1RB#0	1000~3000	-44.93	PASS
Band12	5MHz	16QAM	23095	1RB#0	3000~10000	-44.27	PASS
Band12	5MHz	QPSK	23155	1RB#0	0.009~0.15	-59.30	PASS
Band12	5MHz	QPSK	23155	1RB#0	0.15~30	-52.01	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-58.70	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~3000	-42.92	PASS
Band12	5MHz	QPSK	23155	1RB#0	3000~10000	-43.72	PASS
Band12	5MHz	16QAM	23155	1RB#0	0.009~0.15	-54.73	PASS
Band12	5MHz	16QAM	23155	1RB#0	0.15~30	-50.68	PASS
Band12	5MHz	16QAM	23155	1RB#0	30~1000	-59.47	PASS
Band12	5MHz	16QAM	23155	1RB#0	1000~3000	-44.79	PASS
Band12	5MHz	16QAM	23155	1RB#0	3000~10000	-44.27	PASS
Band12	10MHz	QPSK	23060	1RB#0	0.009~0.15	-57.99	PASS
Band12	10MHz	QPSK	23060	1RB#0	0.15~30	-52.35	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-61.89	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~3000	-43.76	PASS
Band12	10MHz	QPSK	23060	1RB#0	3000~10000	-43.73	PASS
Band12	10MHz	16QAM	23060	1RB#0	0.009~0.15	-57.96	PASS
Band12	10MHz	16QAM	23060	1RB#0	0.15~30	-50.97	PASS
Band12	10MHz	16QAM	23060	1RB#0	30~1000	-61.98	PASS
Band12	10MHz	16QAM	23060	1RB#0	1000~3000	-43.71	PASS
Band12	10MHz	16QAM	23060	1RB#0	3000~10000	-44.02	PASS
Band12	10MHz	QPSK	23095	1RB#0	0.009~0.15	-56.03	PASS
Band12	10MHz	QPSK	23095	1RB#0	0.15~30	-55.91	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-62.19	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~3000	-44.17	PASS
Band12	10MHz	QPSK	23095	1RB#0	3000~10000	-43.75	PASS
Band12	10MHz	16QAM	23095	1RB#0	0.009~0.15	-57.11	PASS
Band12	10MHz	16QAM	23095	1RB#0	0.15~30	-50.57	PASS
Band12	10MHz	16QAM	23095	1RB#0	30~1000	-62.18	PASS
Band12	10MHz	16QAM	23095	1RB#0	1000~3000	-45.44	PASS
Band12	10MHz	16QAM	23095	1RB#0	3000~10000	-43.82	PASS
Band12	10MHz	QPSK	23130	1RB#0	0.009~0.15	-58.81	PASS
Band12	10MHz	QPSK	23130	1RB#0	0.15~30	-53.06	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-62.09	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~3000	-45.58	PASS
Band12	10MHz	QPSK	23130	1RB#0	3000~10000	-44.25	PASS



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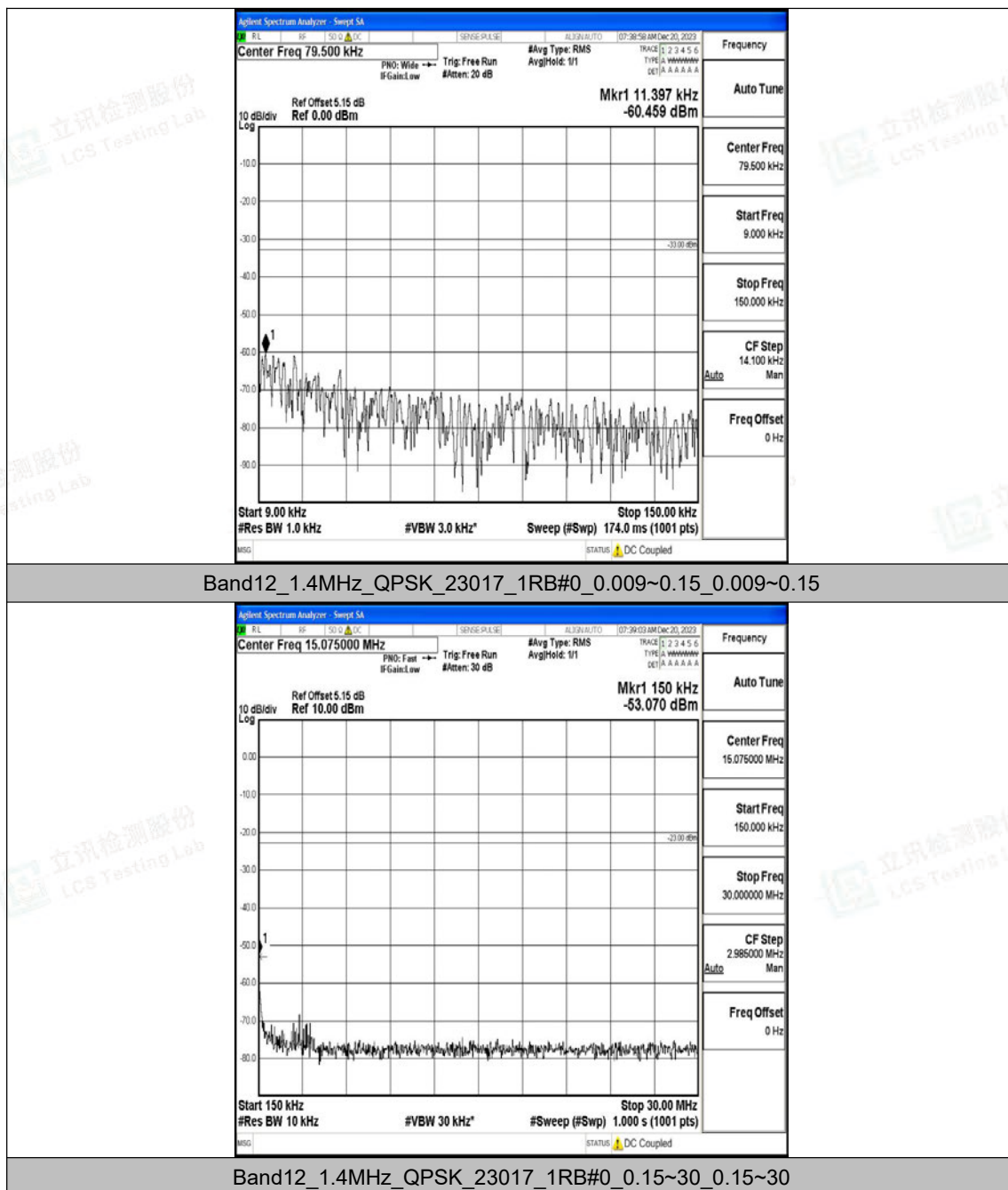
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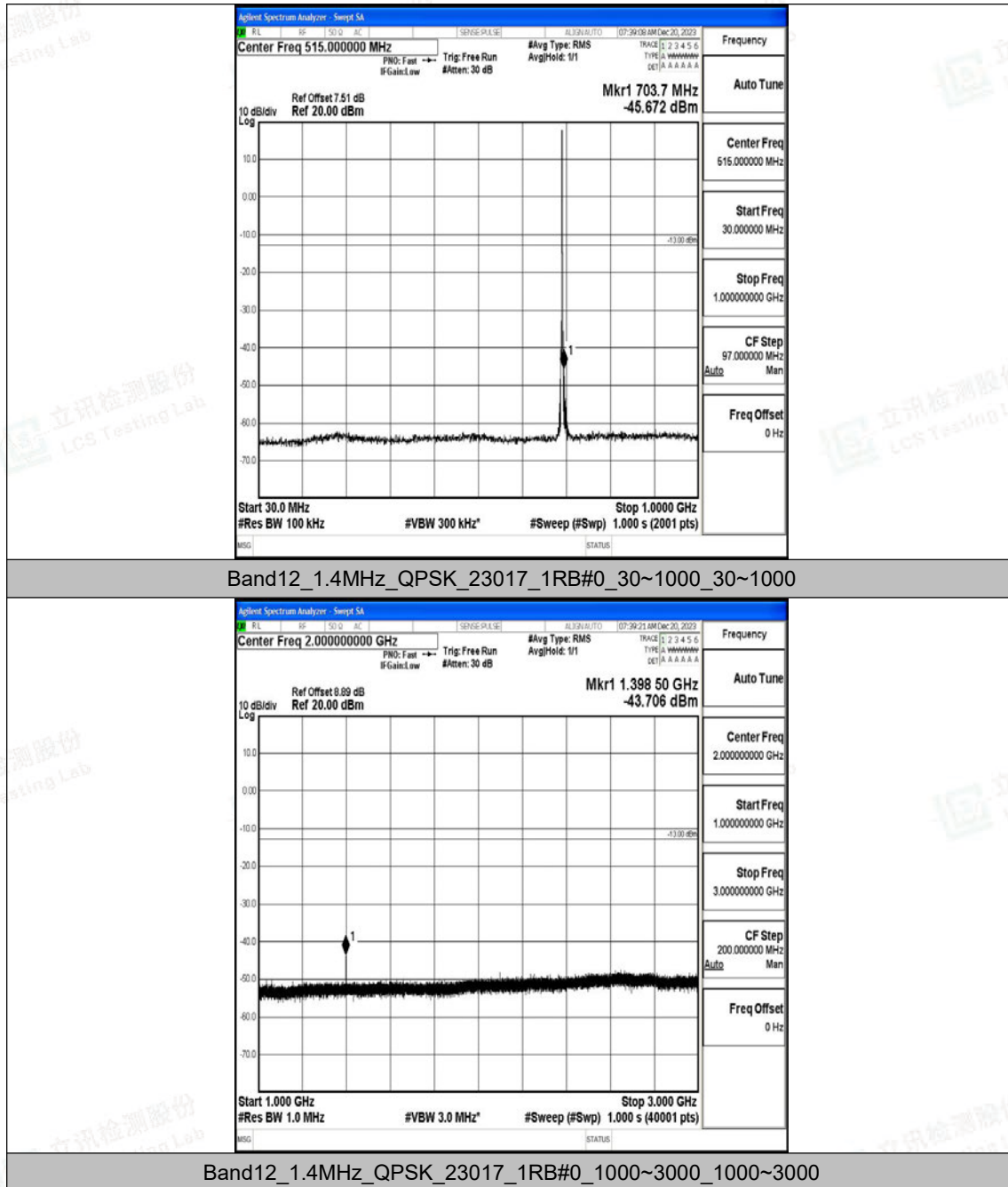
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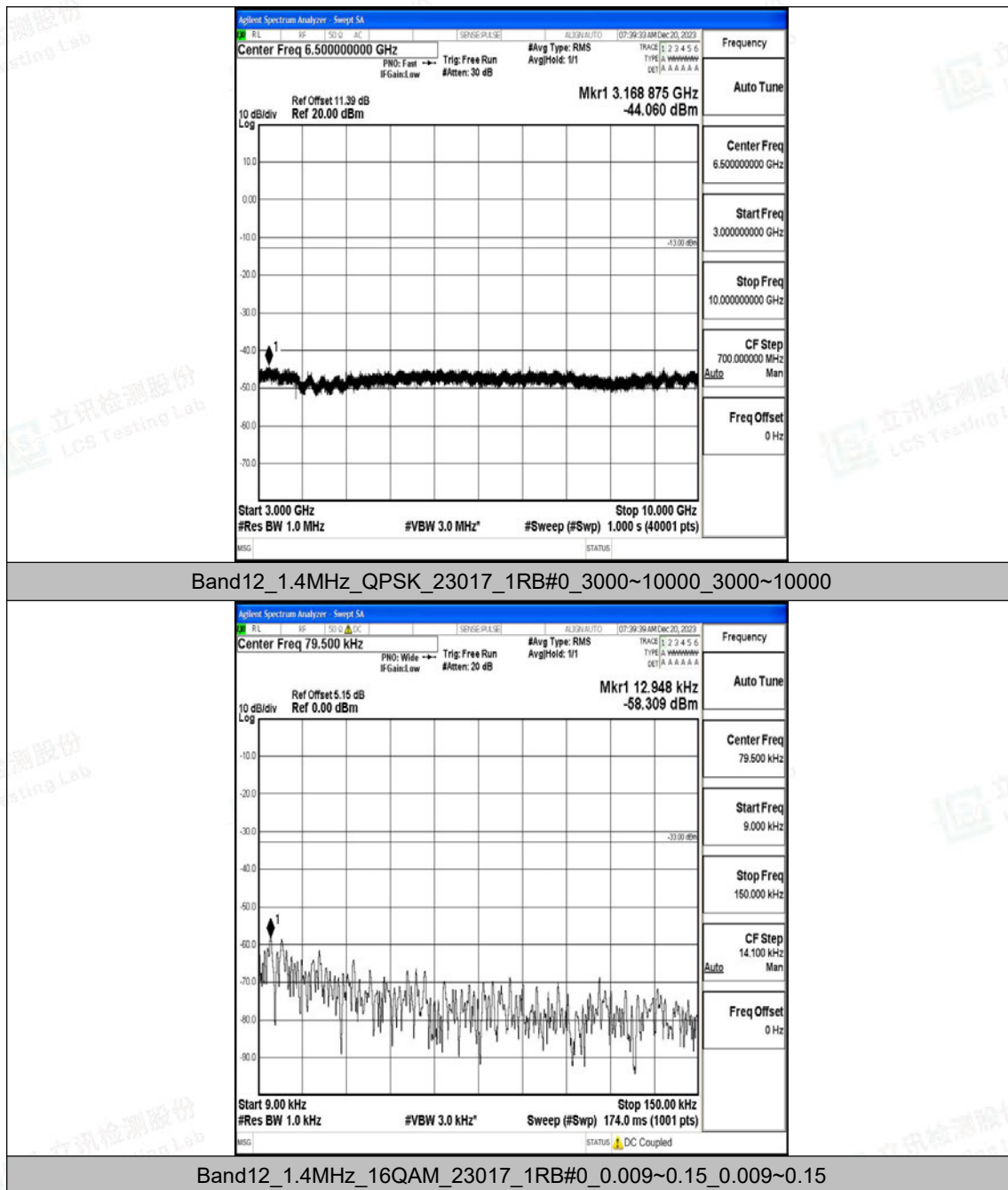


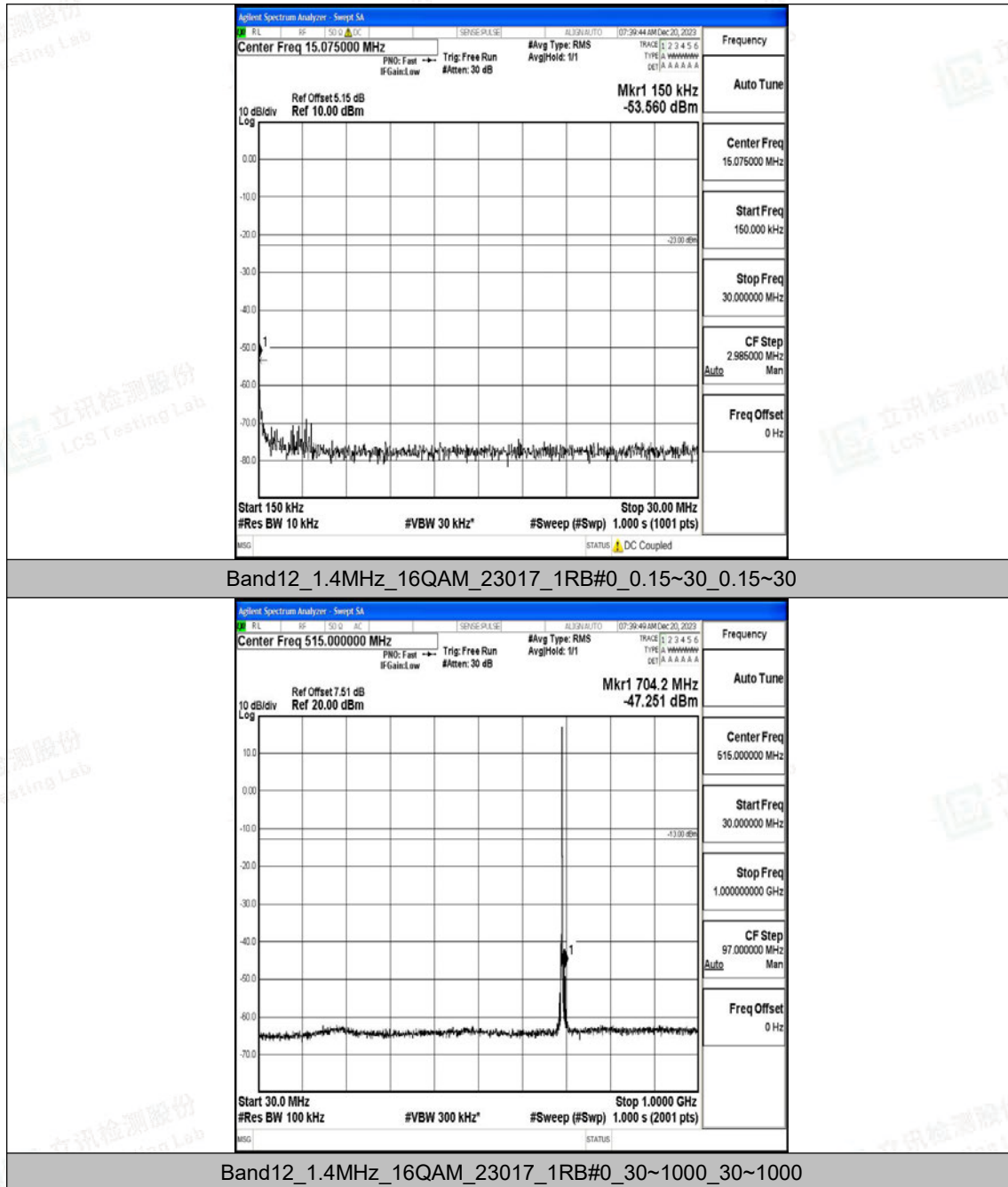
Band12	10MHz	16QAM	23130	1RB#0	0.009~0.15	-56.53	PASS
Band12	10MHz	16QAM	23130	1RB#0	0.15~30	-50.52	PASS
Band12	10MHz	16QAM	23130	1RB#0	30~1000	-62.07	PASS
Band12	10MHz	16QAM	23130	1RB#0	1000~3000	-45.01	PASS
Band12	10MHz	16QAM	23130	1RB#0	3000~10000	-44.03	PASS

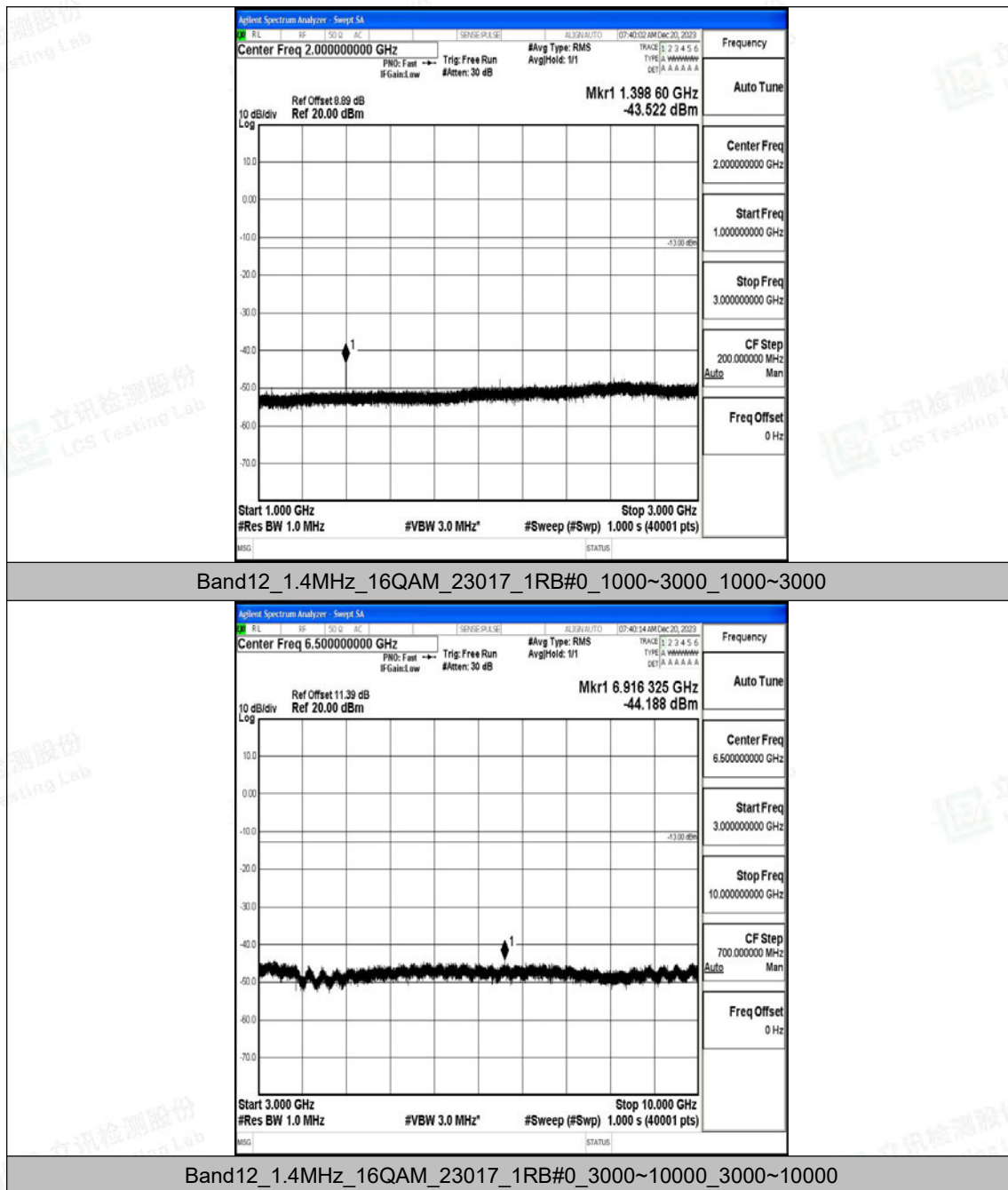
Test Graphs

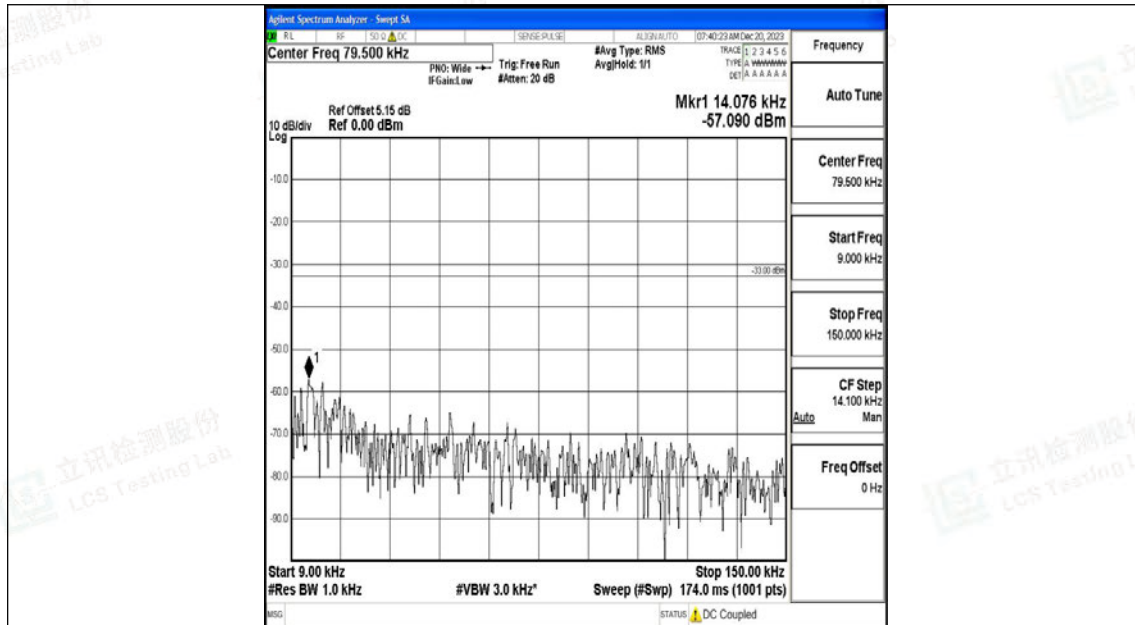




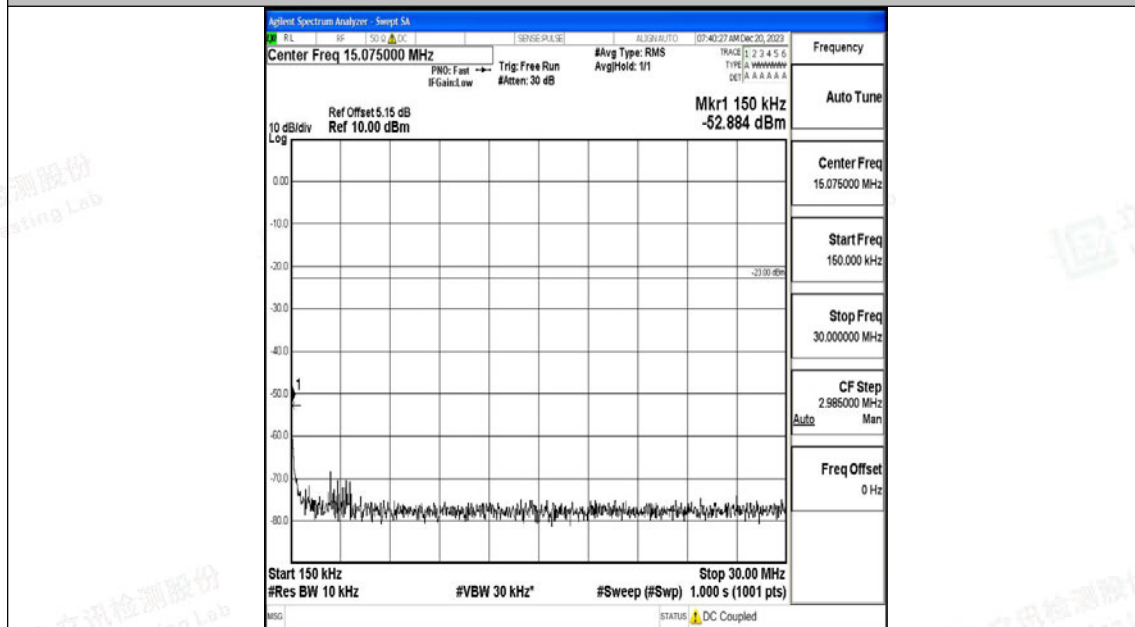






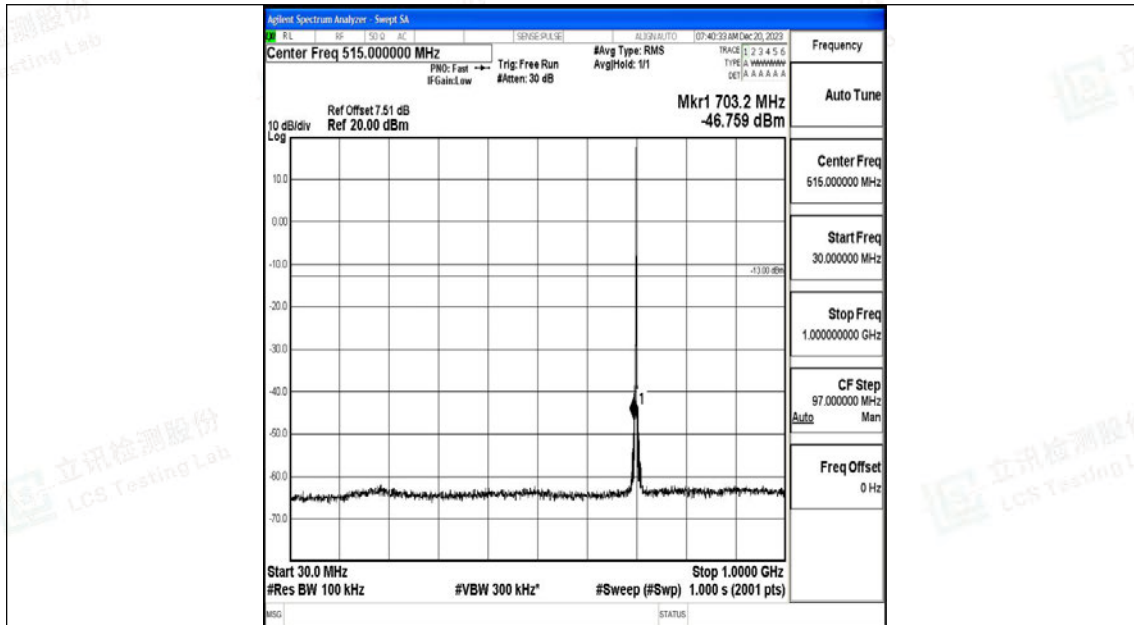


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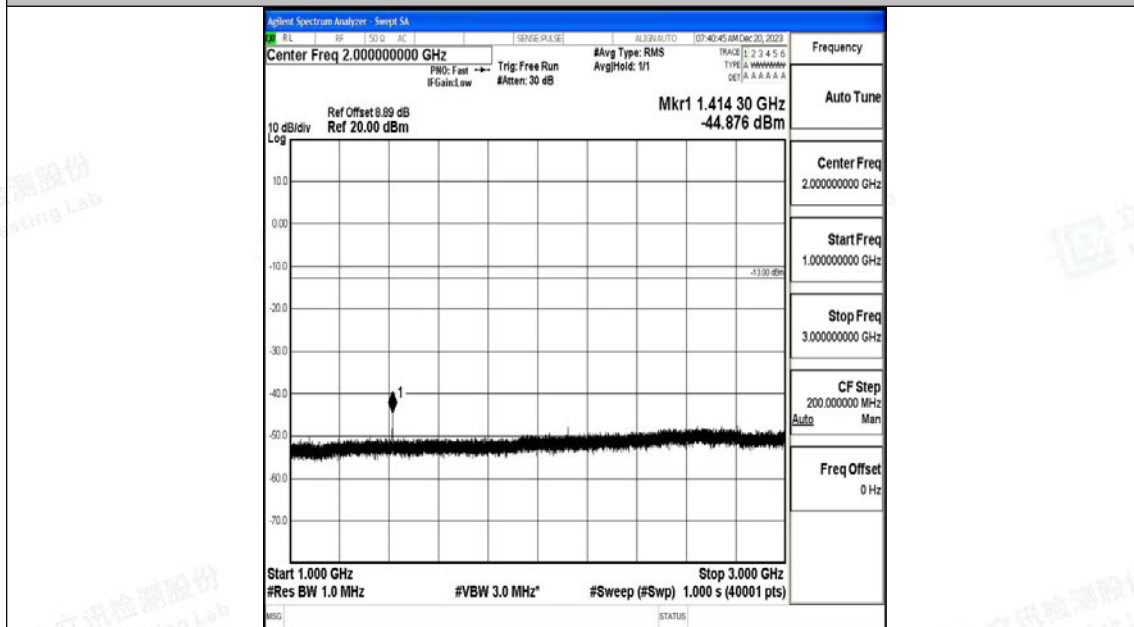


Band12_1.4MHz_QPSK_23095_1RB#0_0.15~30_0.15~30





Band12_1.4MHz_QPSK_23095_1RB#0_30~1000_30~1000



Band12_1.4MHz_QPSK_23095_1RB#0_1000~3000_1000~3000

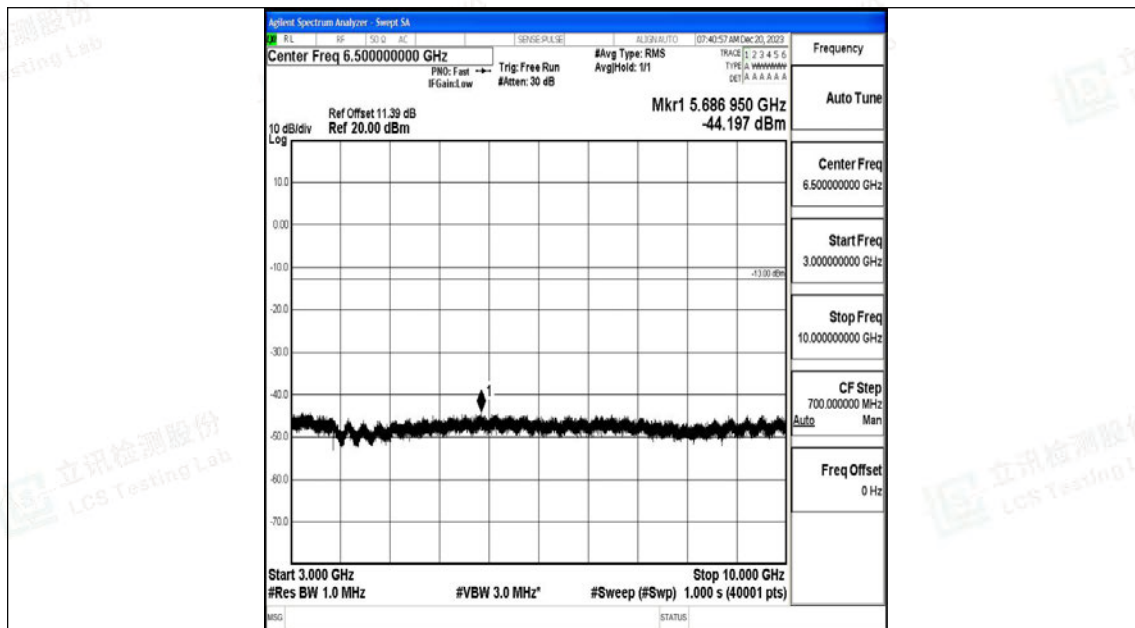


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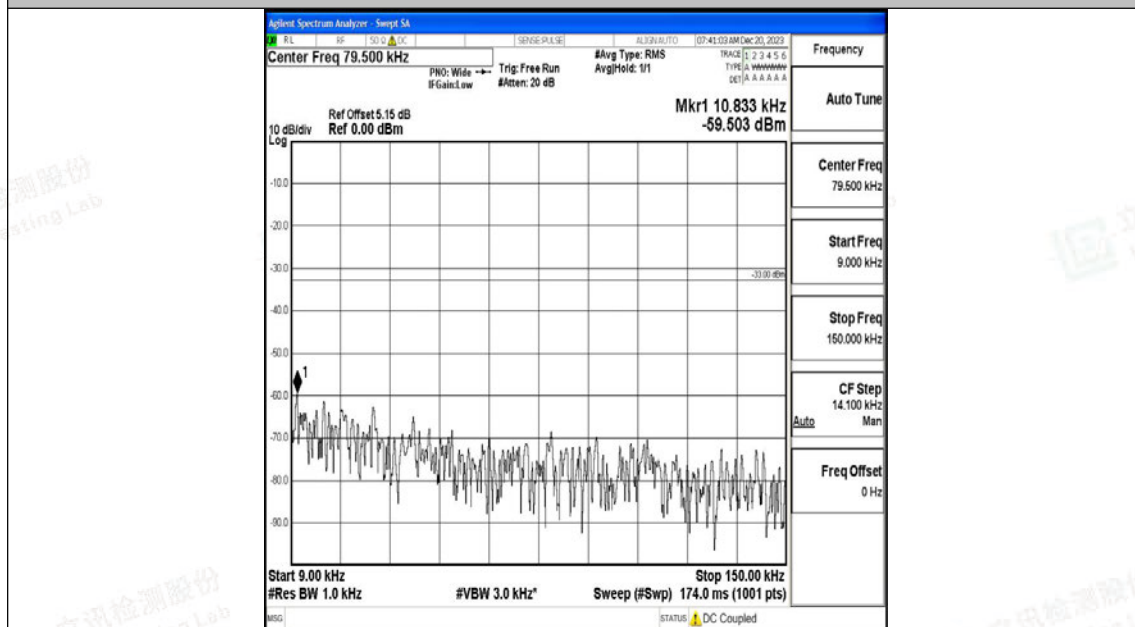
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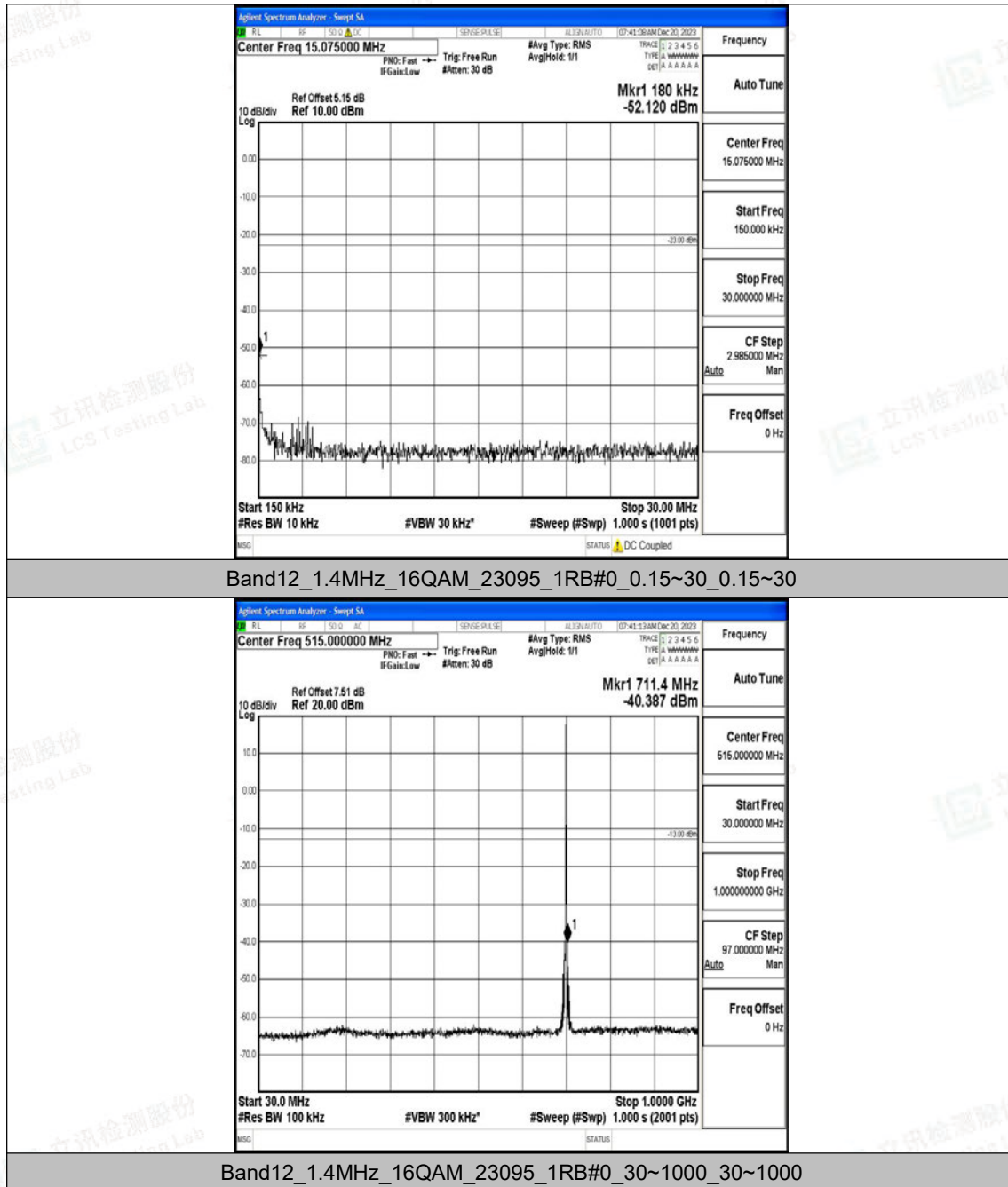


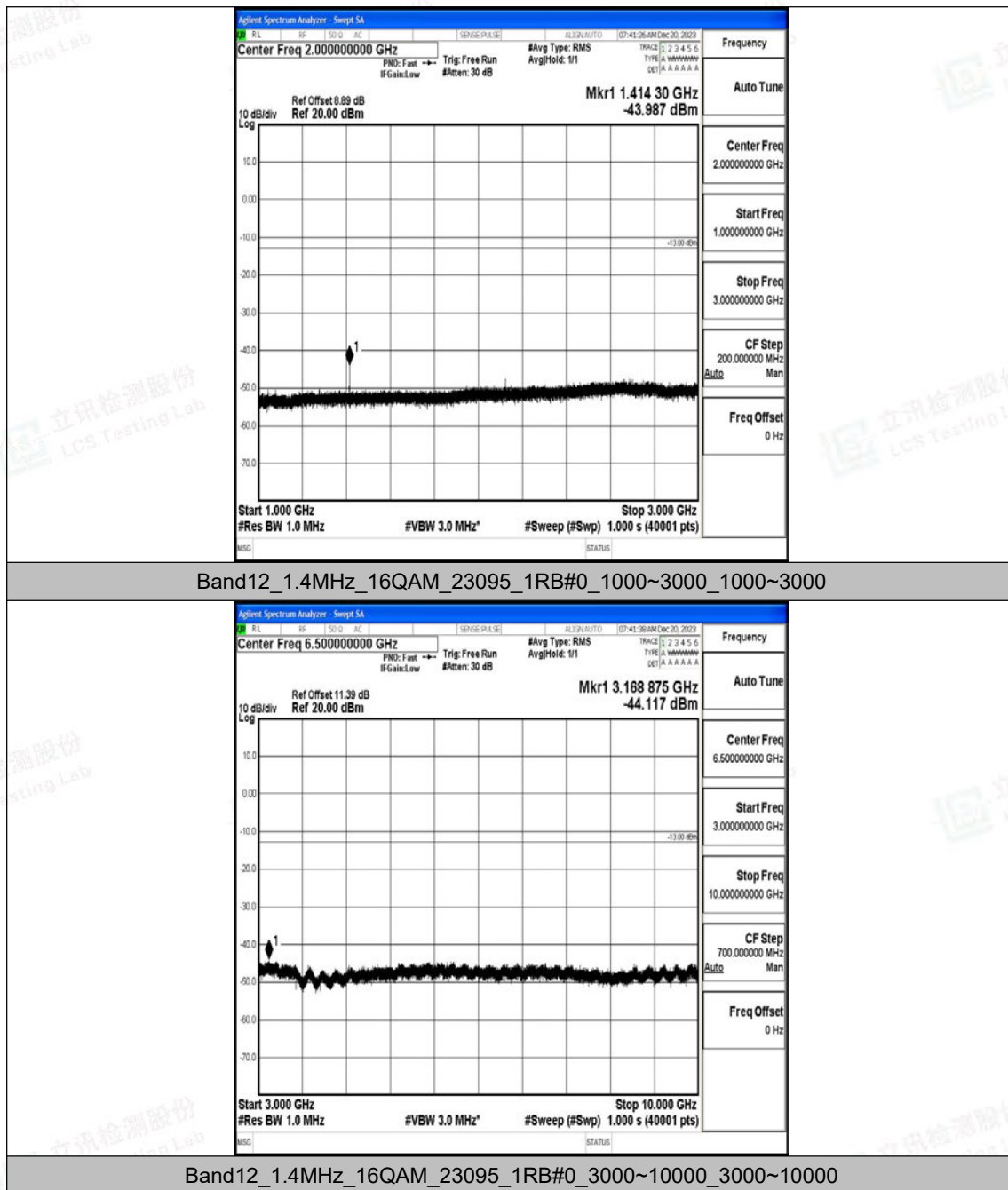
Band12_1.4MHz_QPSK_23095_1RB#0_3000~10000_3000~10000

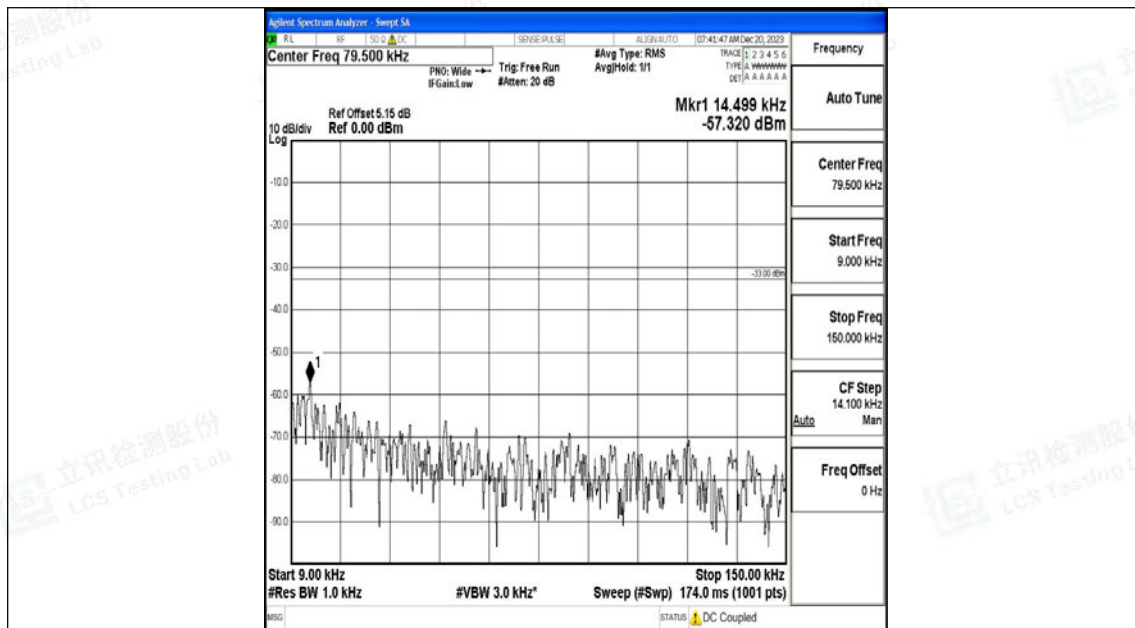


Band12_1.4MHz_16QAM_23095_1RB#0_0.009~0.15_0.009~0.15

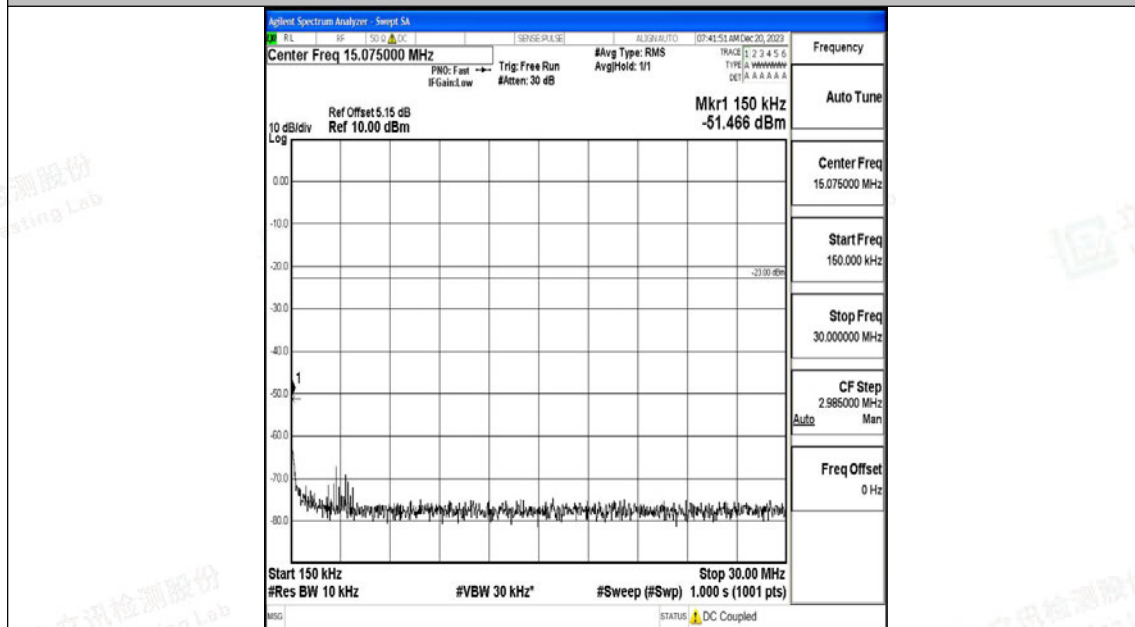








Band12_1.4MHz_QPSK_23173_1RB#0_0.009~0.15_0.009~0.15



Band12_1.4MHz_QPSK_23173_1RB#0_0.15~30_0.15~30

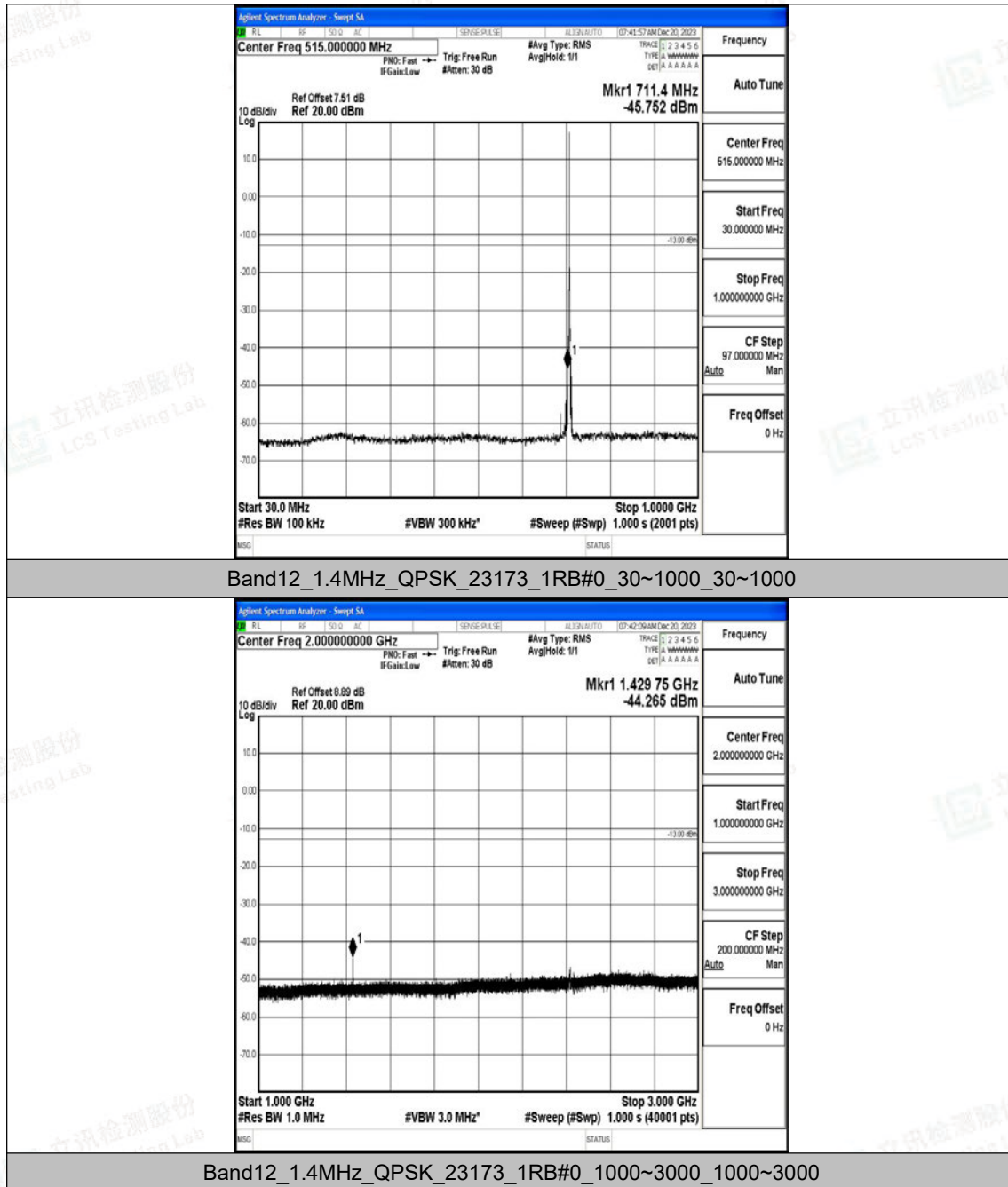


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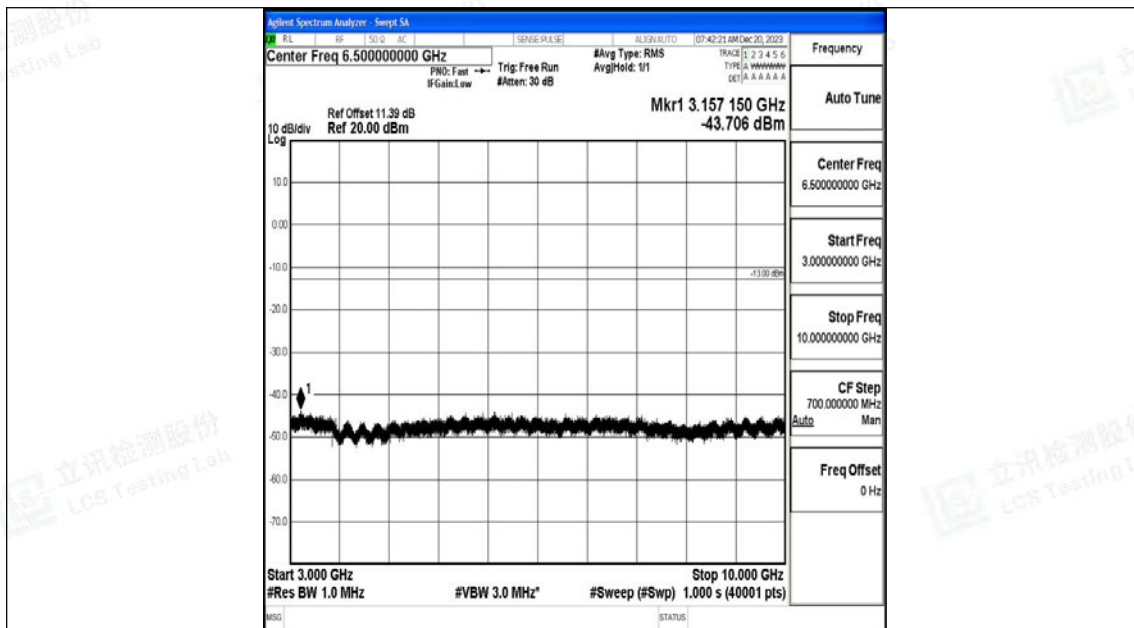


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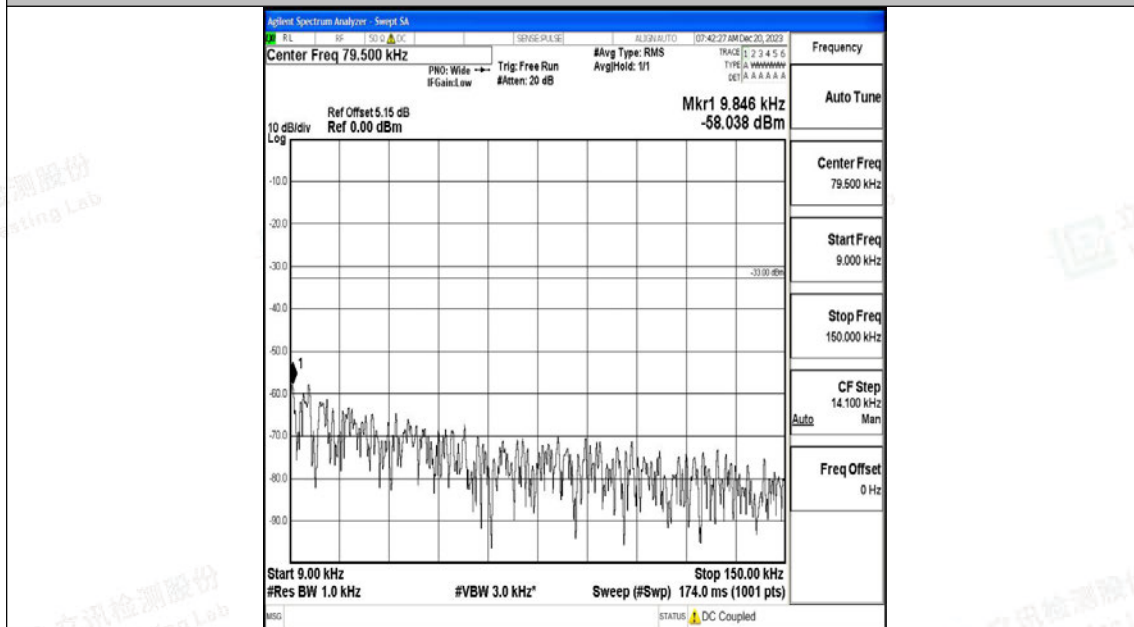
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Band12_1.4MHz_QPSK_23173_1RB#0_3000~10000_3000~10000



Band12_1.4MHz_16QAM_23173_1RB#0_0.009~0.15_0.009~0.15

