



Appendix I: Test Data for E-UTRA Band 7

Product Name: Smart POS

Test Model: WIZARPOS Q3

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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I.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.28	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.16	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.46	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.25	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.31	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.19	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.29	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.27	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.34	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.23	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.28	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.20	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.30	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.28	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.20	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.20	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.34	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.29	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.21	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.16	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.30	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.27	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.26	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.21	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.16	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.15	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.20	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.14	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.45	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.32	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.57	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.44	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.44	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.31	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.48	PASS



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Band7	5MHz	16QAM	21425	12RB#0	21.36	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.45	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.34	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.40	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.30	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.42	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.41	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.37	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.32	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.42	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.41	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.36	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.37	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.39	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.30	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.37	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.31	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.41	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.35	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.37	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.30	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.33	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.08	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.43	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.22	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.27	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.06	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.39	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.35	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.37	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.32	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.17	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.10	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.24	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.22	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.36	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.61	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.65	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.47	PASS



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Band7	10MHz	16QAM	21400	1RB#49	22.41	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.44	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.36	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.40	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.37	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.45	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.37	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.43	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.30	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.28	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.23	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.39	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.41	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.37	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.39	PASS
Band7	15MHz	QPSK	20825	38RB#0	21.52	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.51	PASS
Band7	15MHz	QPSK	20825	38RB#18	21.53	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.49	PASS
Band7	15MHz	QPSK	20825	38RB#37	21.49	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.50	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.50	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.42	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.23	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.31	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.29	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.19	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.28	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.39	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.36	PASS
Band7	15MHz	QPSK	21100	38RB#18	21.39	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.39	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.34	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.36	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.38	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.34	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.04	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.82	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.48	PASS



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Band7	15MHz	16QAM	21375	1RB#38	22.21	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.38	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.11	PASS
Band7	15MHz	QPSK	21375	38RB#0	22.42	PASS
Band7	15MHz	16QAM	21375	38RB#0	22.41	PASS
Band7	15MHz	QPSK	21375	38RB#18	22.46	PASS
Band7	15MHz	16QAM	21375	38RB#18	22.42	PASS
Band7	15MHz	QPSK	21375	38RB#37	22.43	PASS
Band7	15MHz	16QAM	21375	38RB#37	22.40	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.41	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.32	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.16	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.99	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.61	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.26	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.13	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.33	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.32	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.32	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.30	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.59	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.52	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.47	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.42	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.20	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.22	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.39	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.44	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.17	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.20	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.42	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.36	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.42	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.41	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.04	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.04	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.24	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.17	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.58	PASS



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Band7	20MHz	16QAM	21350	1RB#0	21.41	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.47	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.30	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.14	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.94	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.89	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.90	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.88	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.90	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.33	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.35	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.15	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.10	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	3.86	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.67	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.19	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.85	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.19	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.98	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.28	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.93	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	3.82	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	4.68	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.19	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.84	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	3.74	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.70	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.22	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.90	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.14	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.06	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.26	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.95	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.07	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	5.02	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.14	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.84	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	3.80	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.78	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.54	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.05	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.21	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.17	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.52	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.03	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.22	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.15	13	PASS



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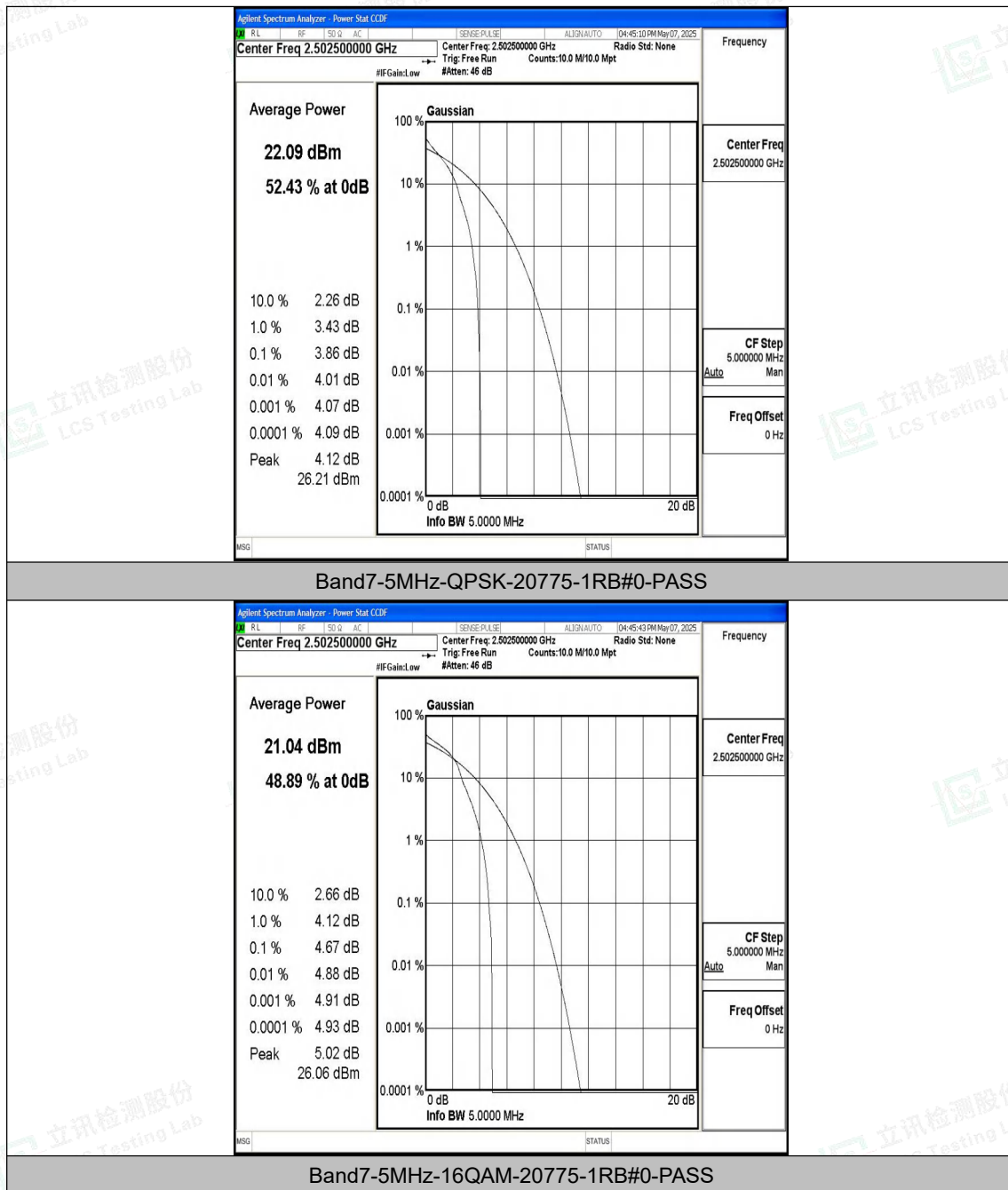


Band7	15MHz	QPSK	21375	75RB#0	5.35	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.89	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	3.86	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.69	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.26	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.98	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.29	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.03	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.21	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.95	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.28	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	4.97	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.07	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.83	13	PASS





Test Graphs

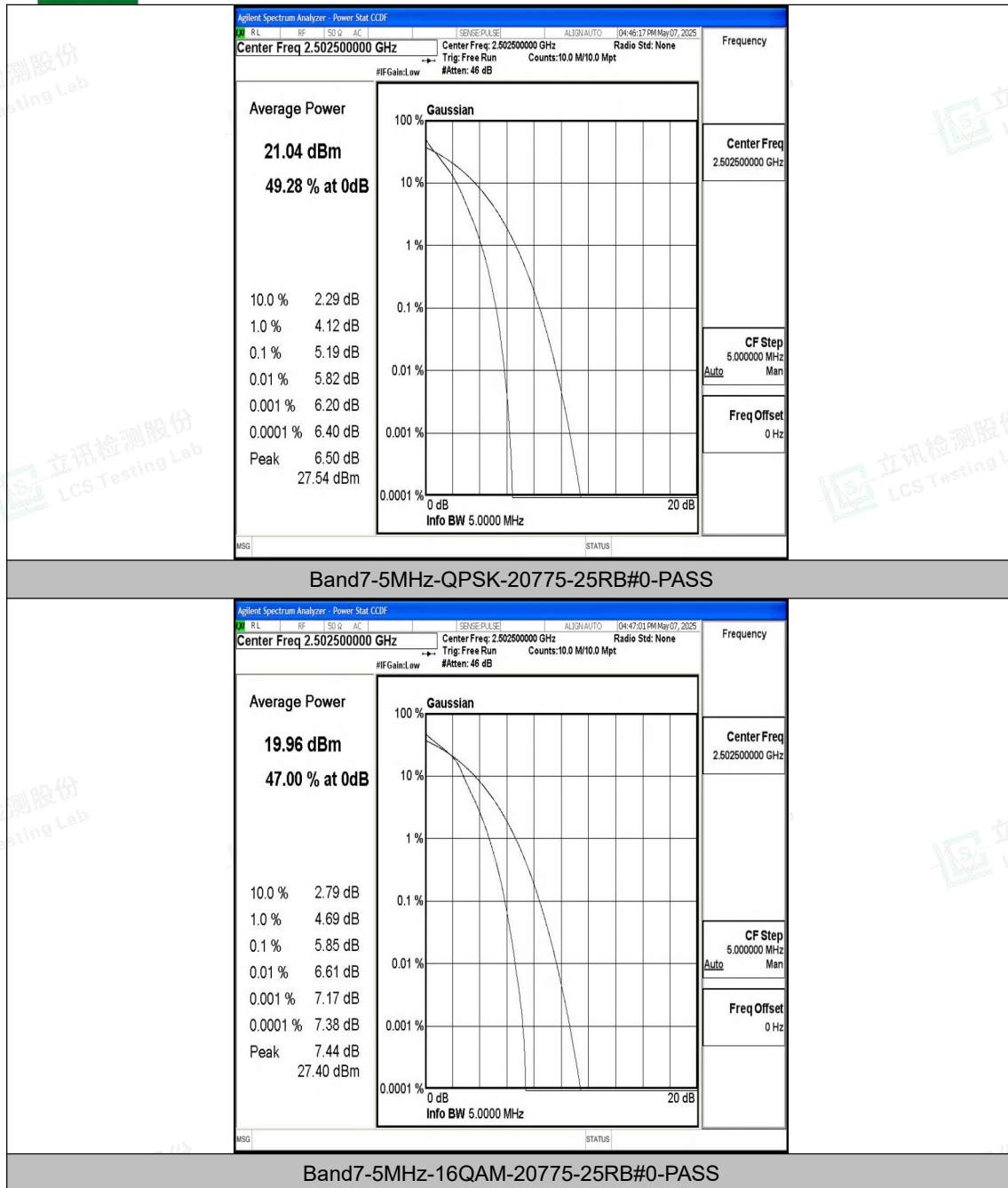


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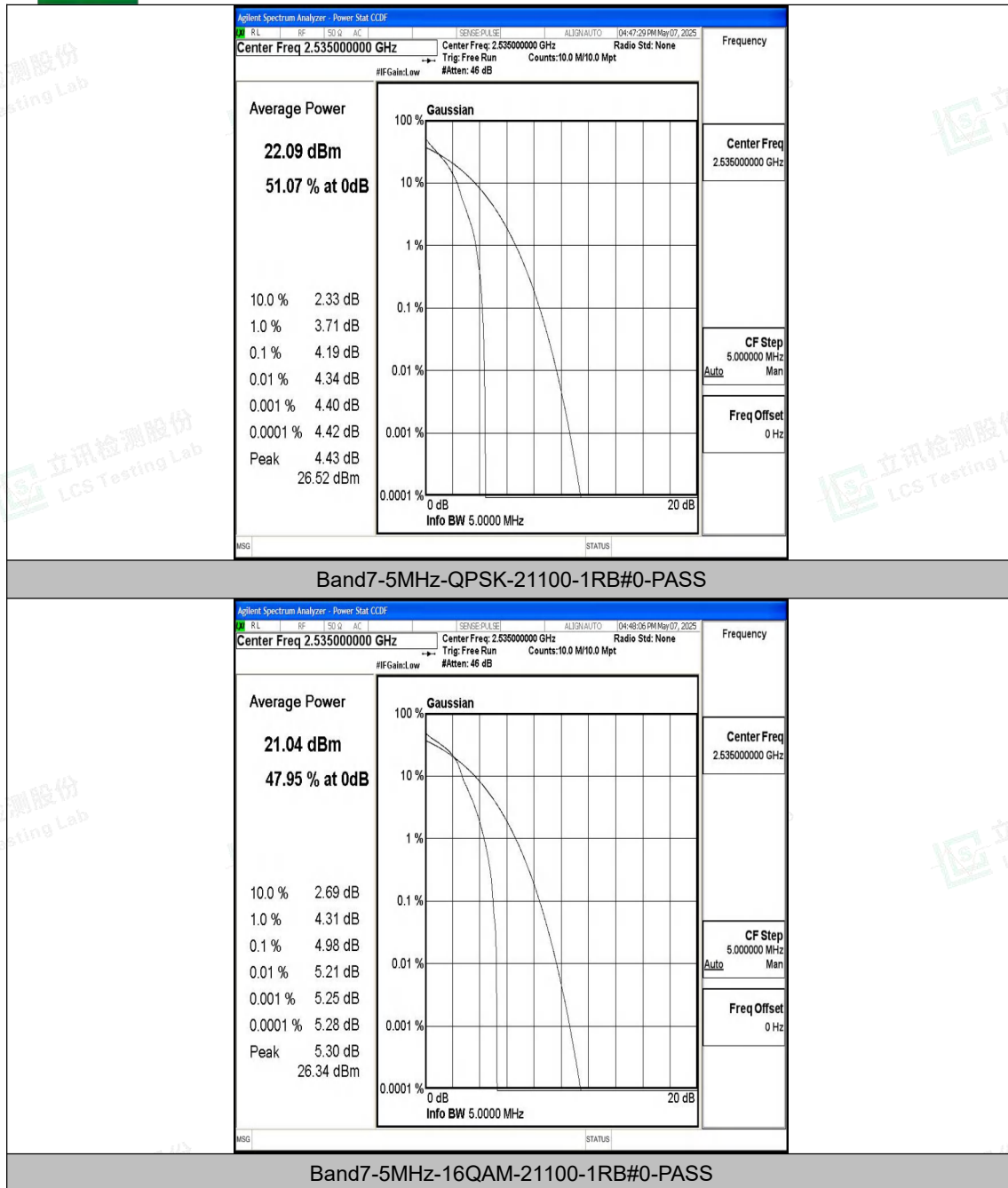


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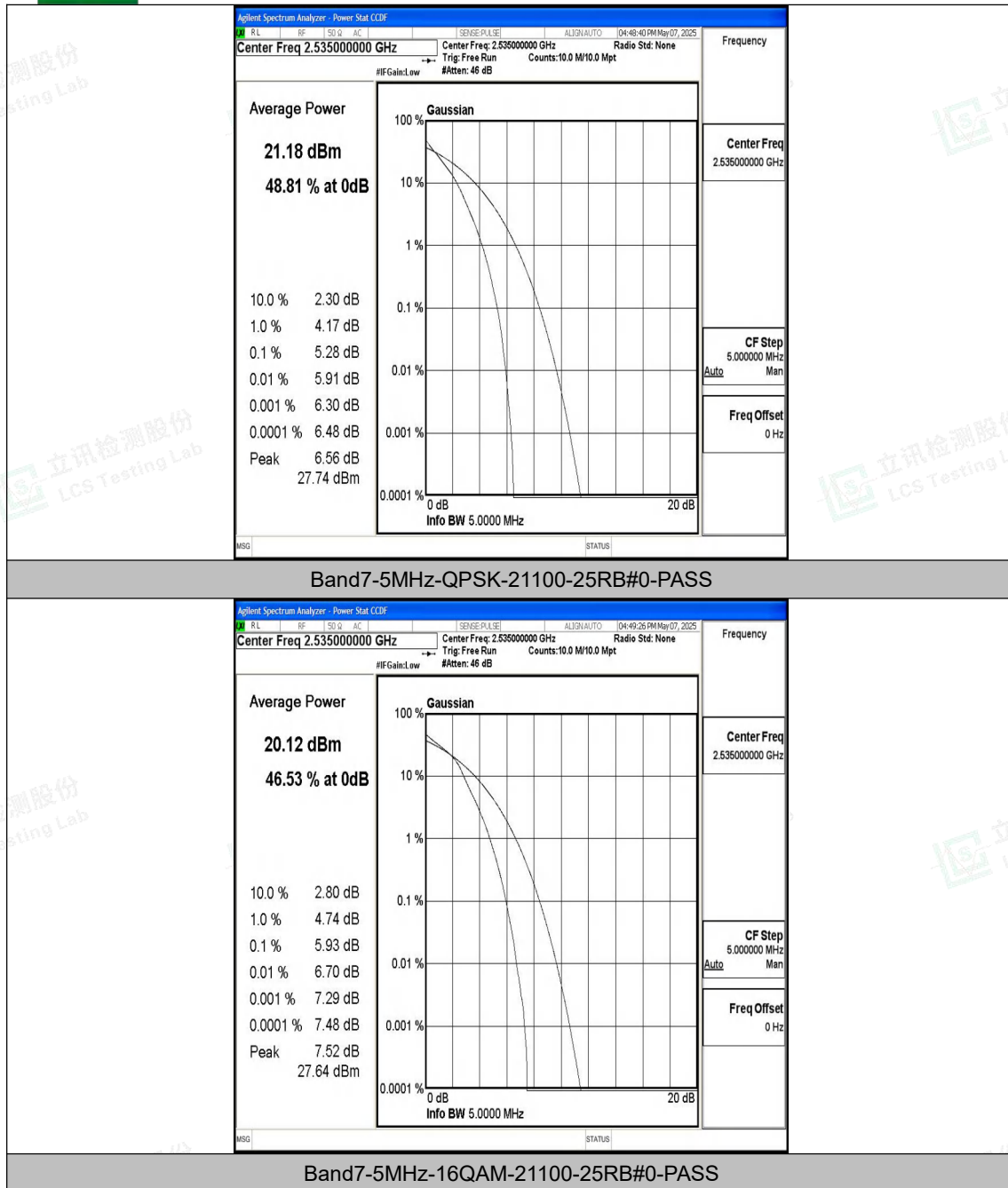


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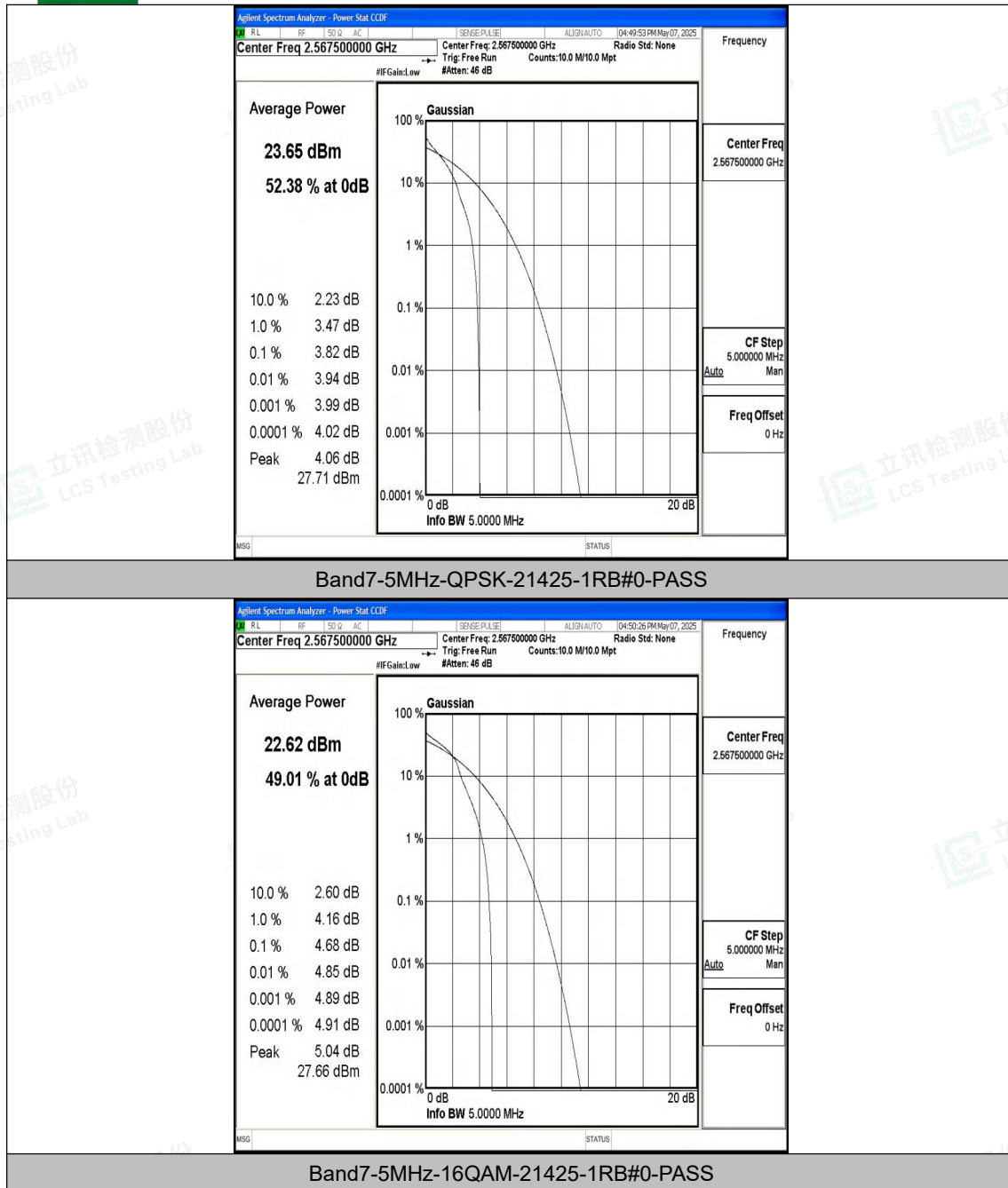


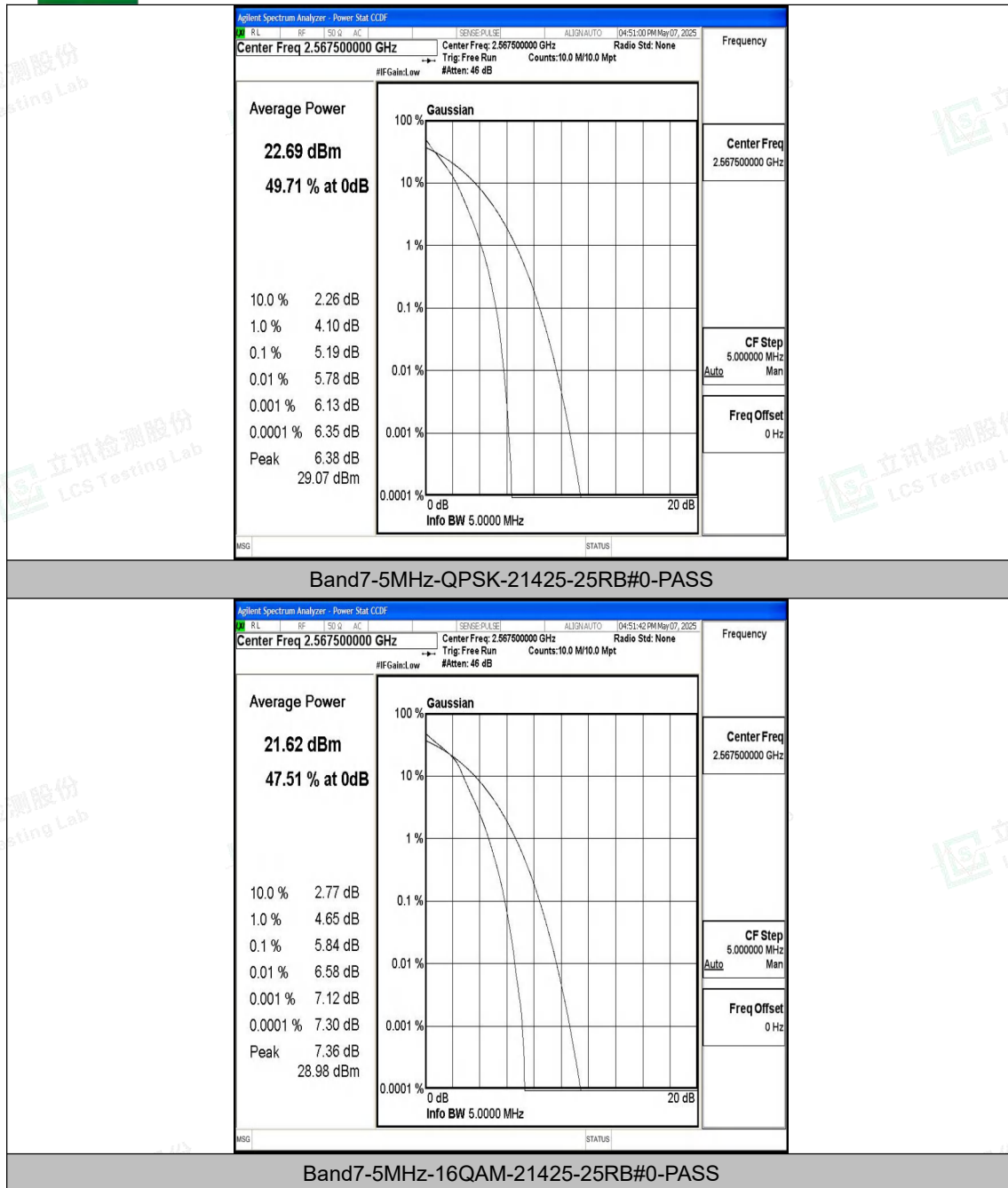
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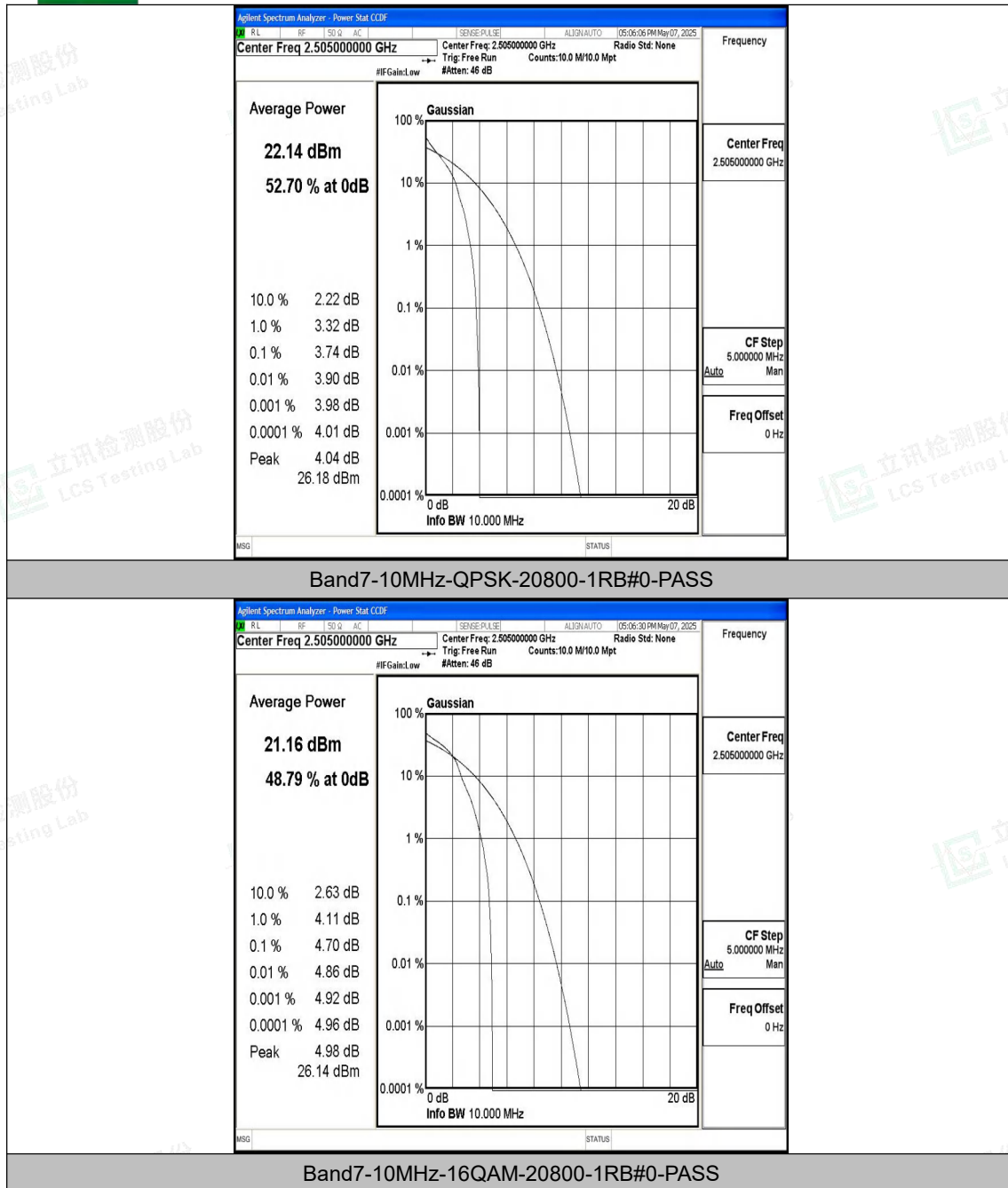


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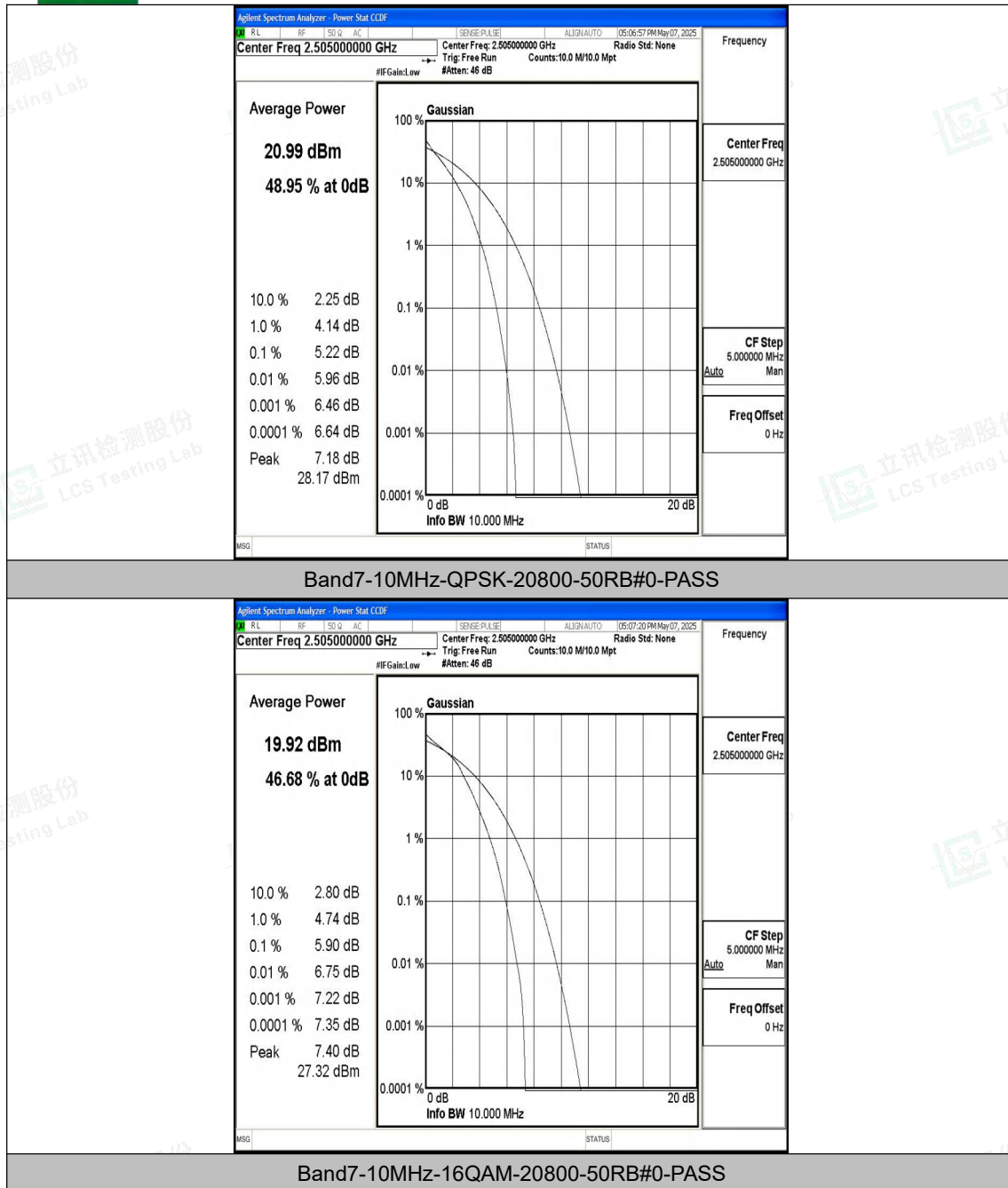


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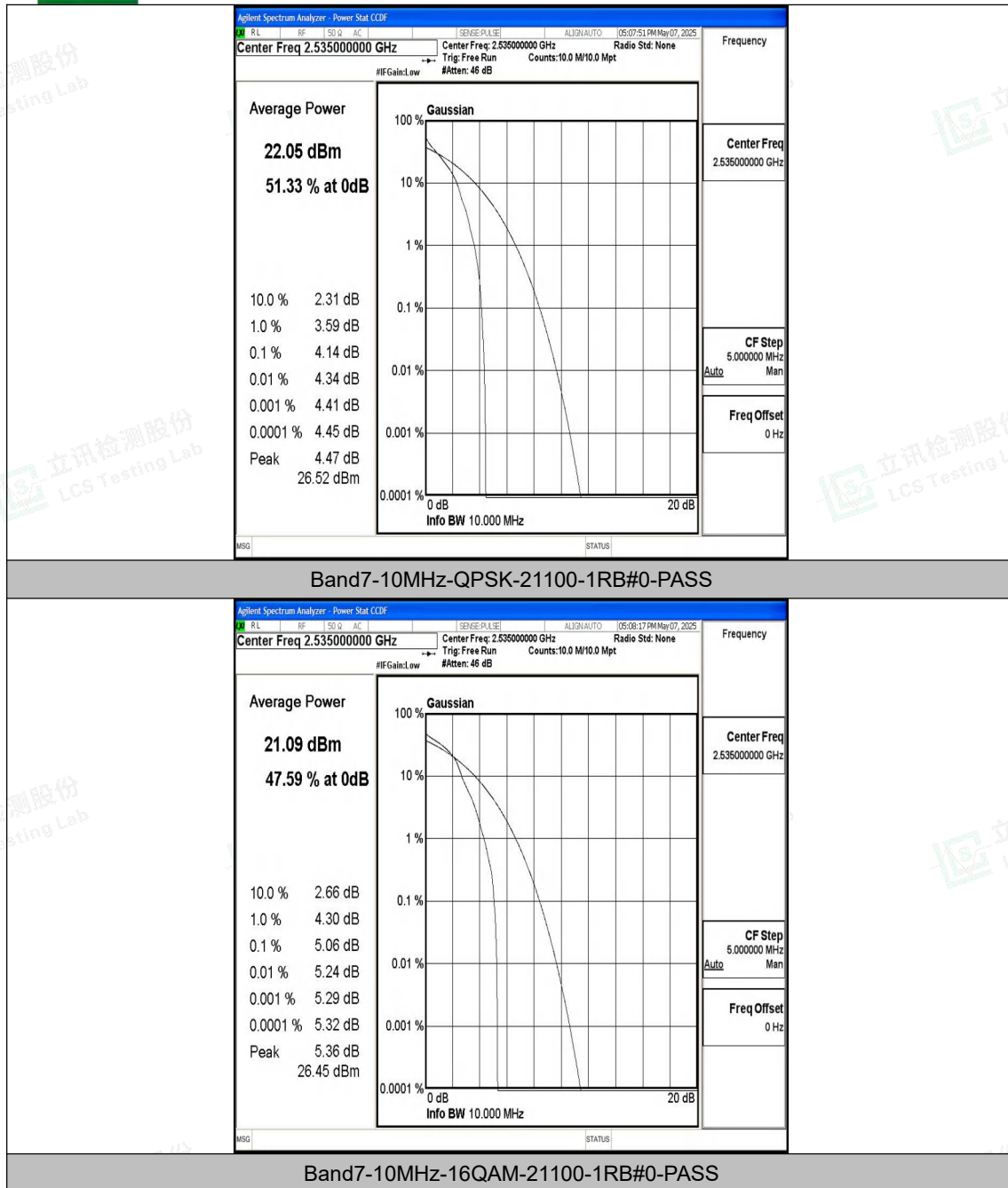


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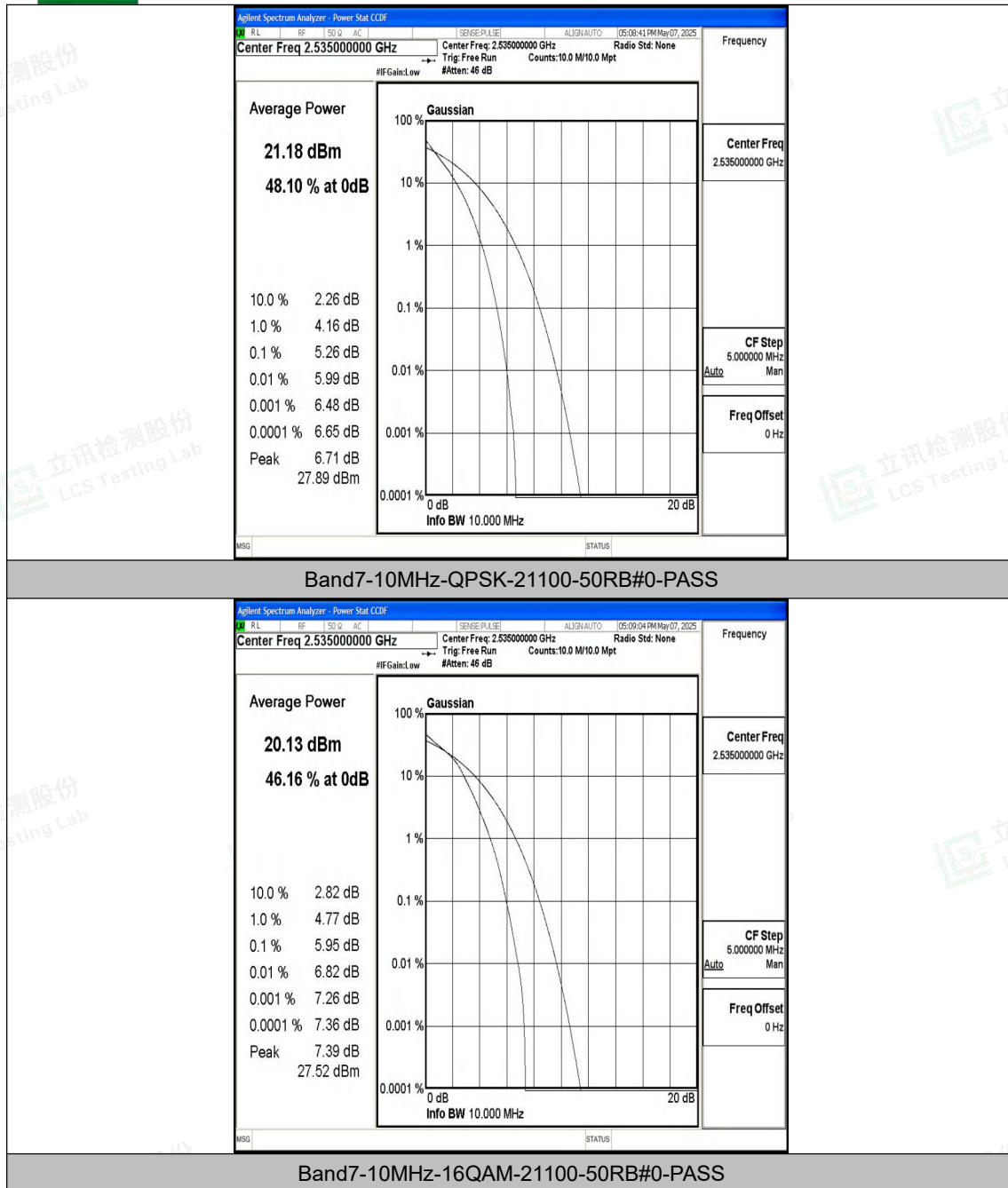


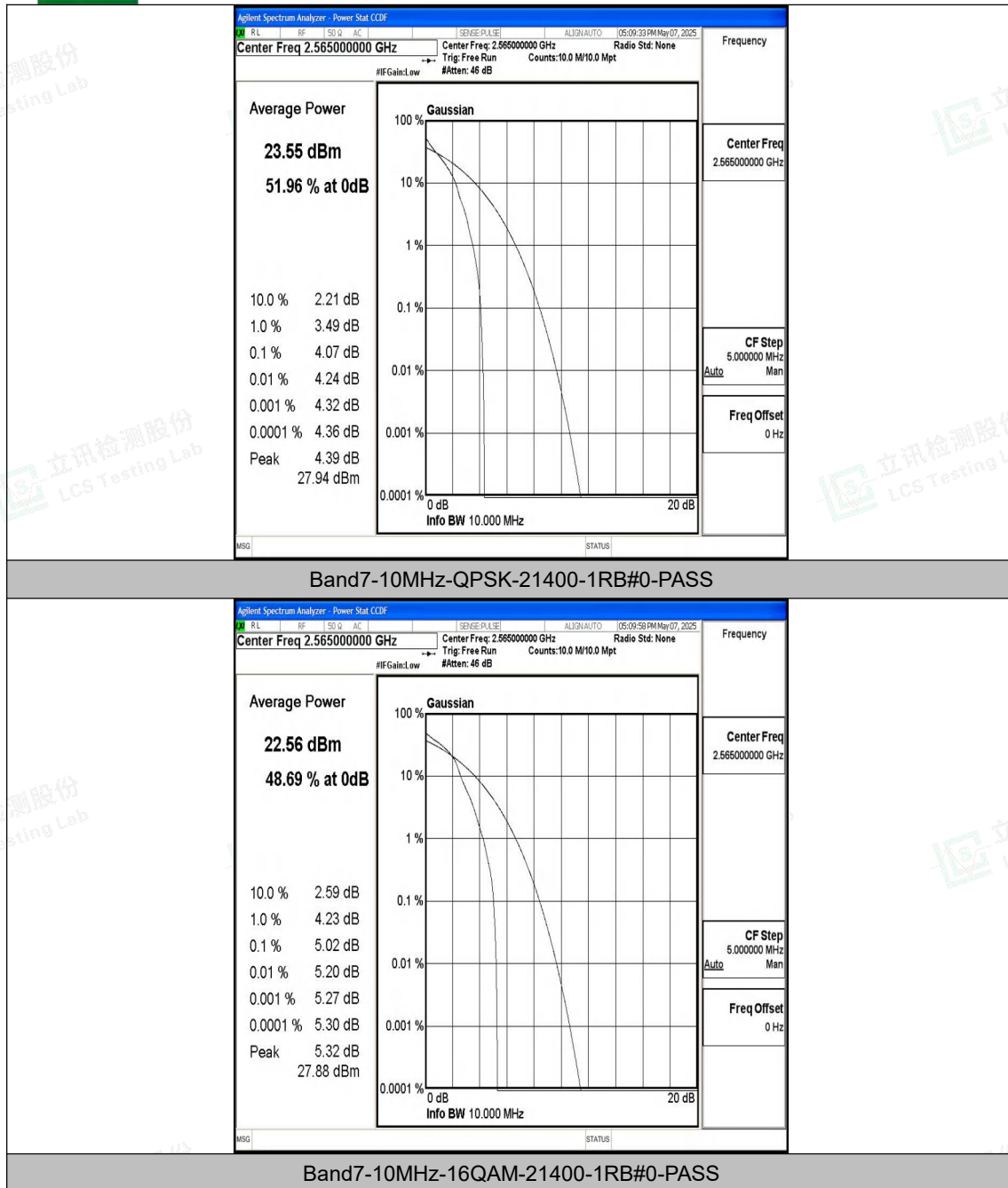
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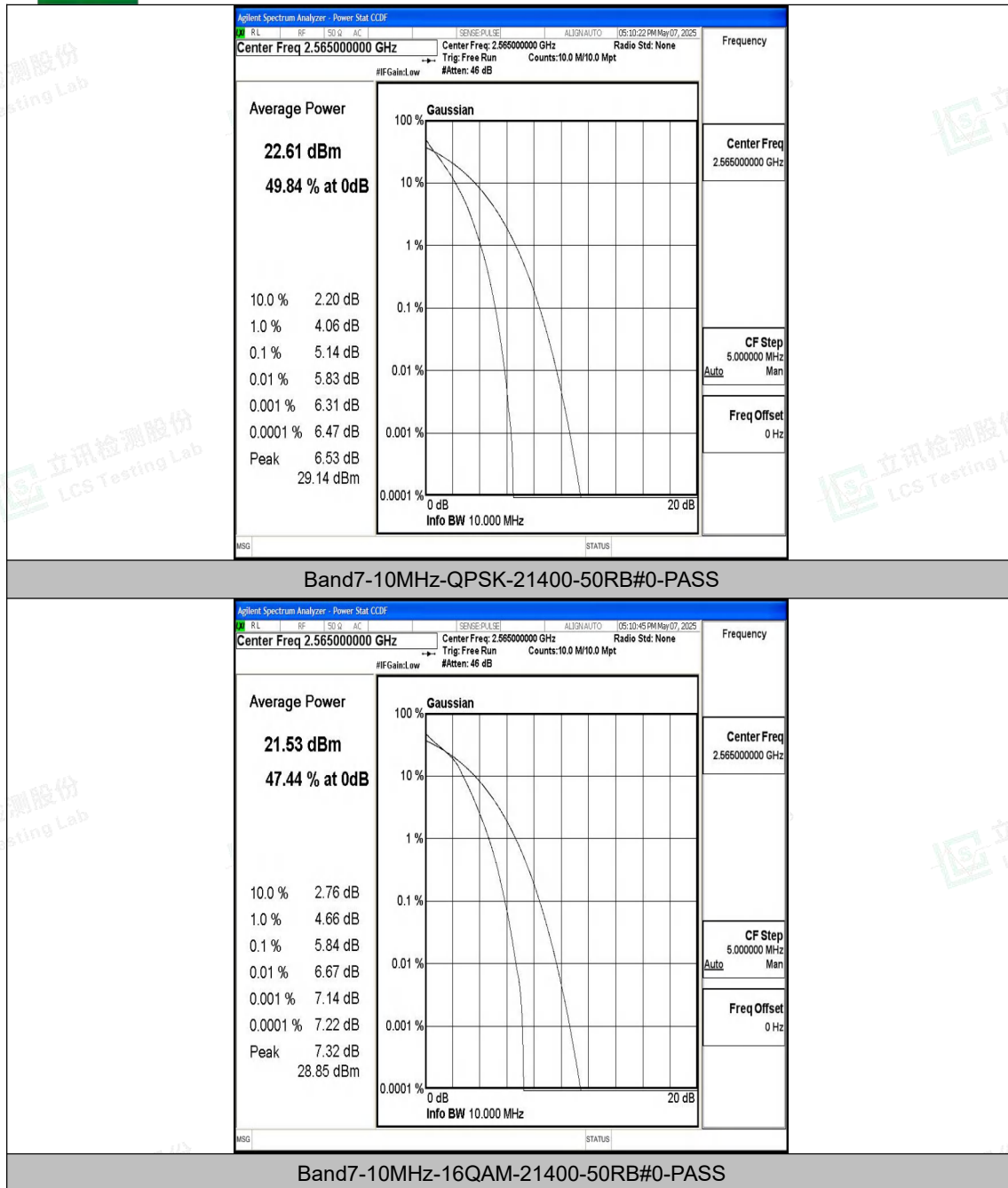


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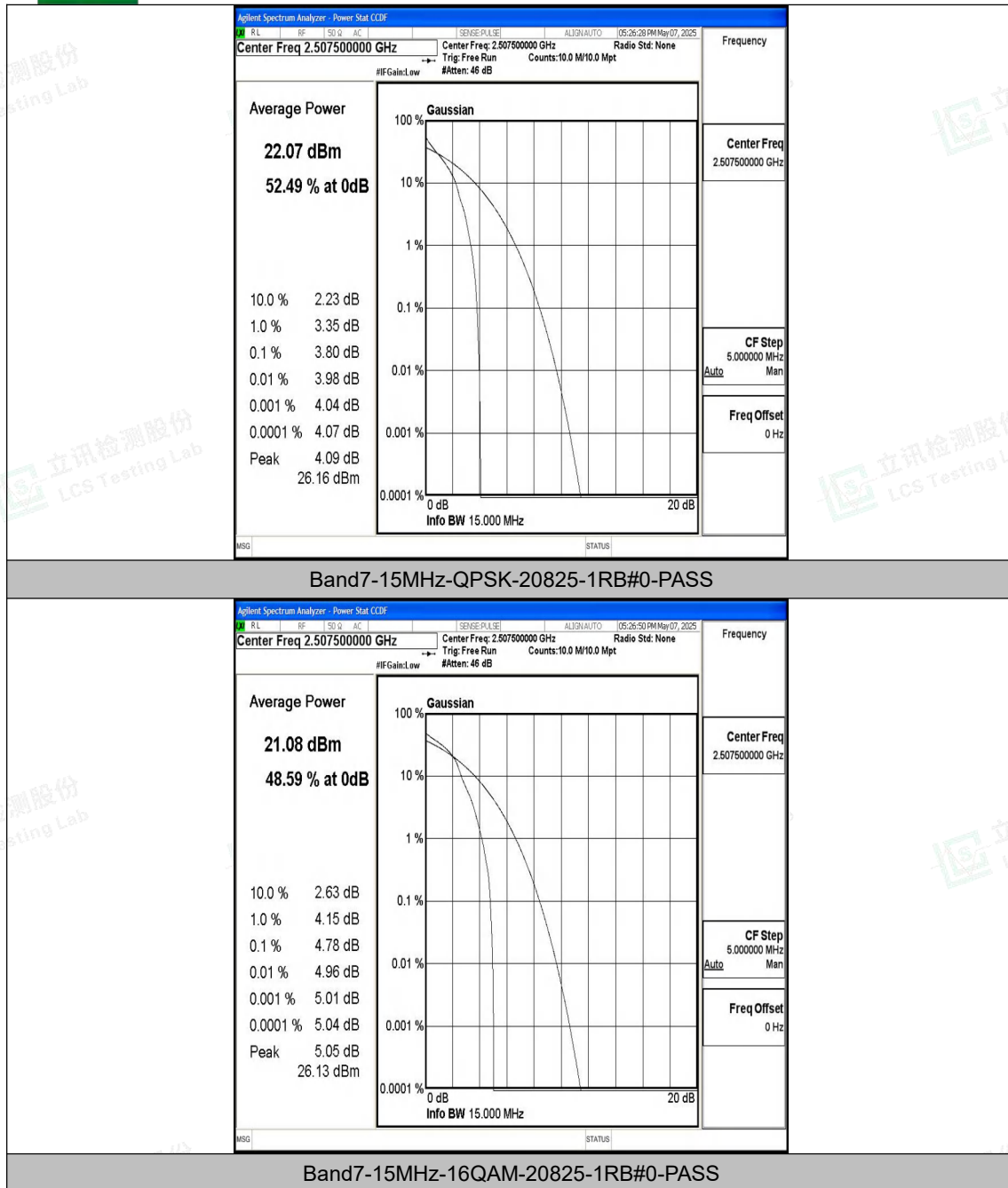


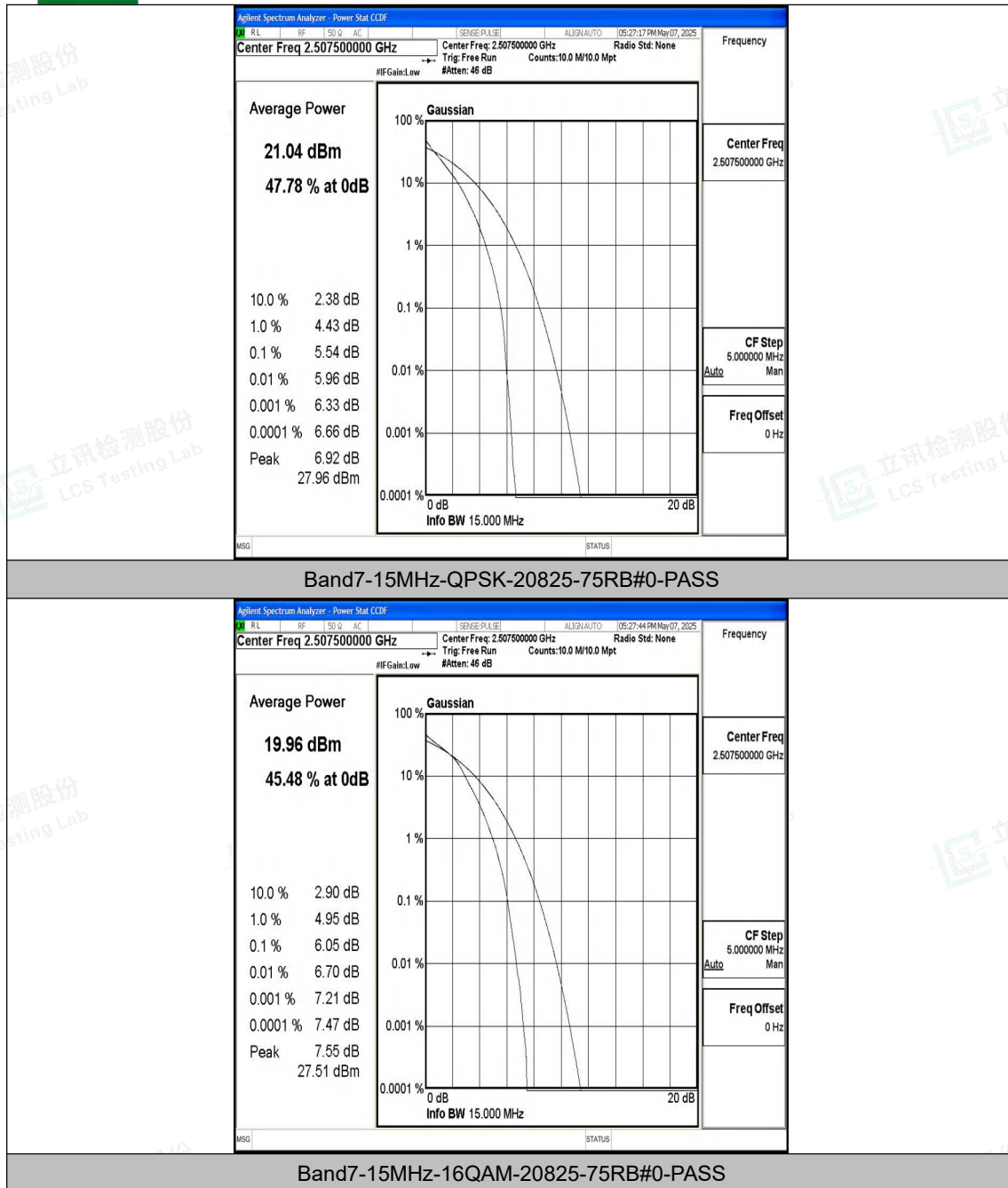
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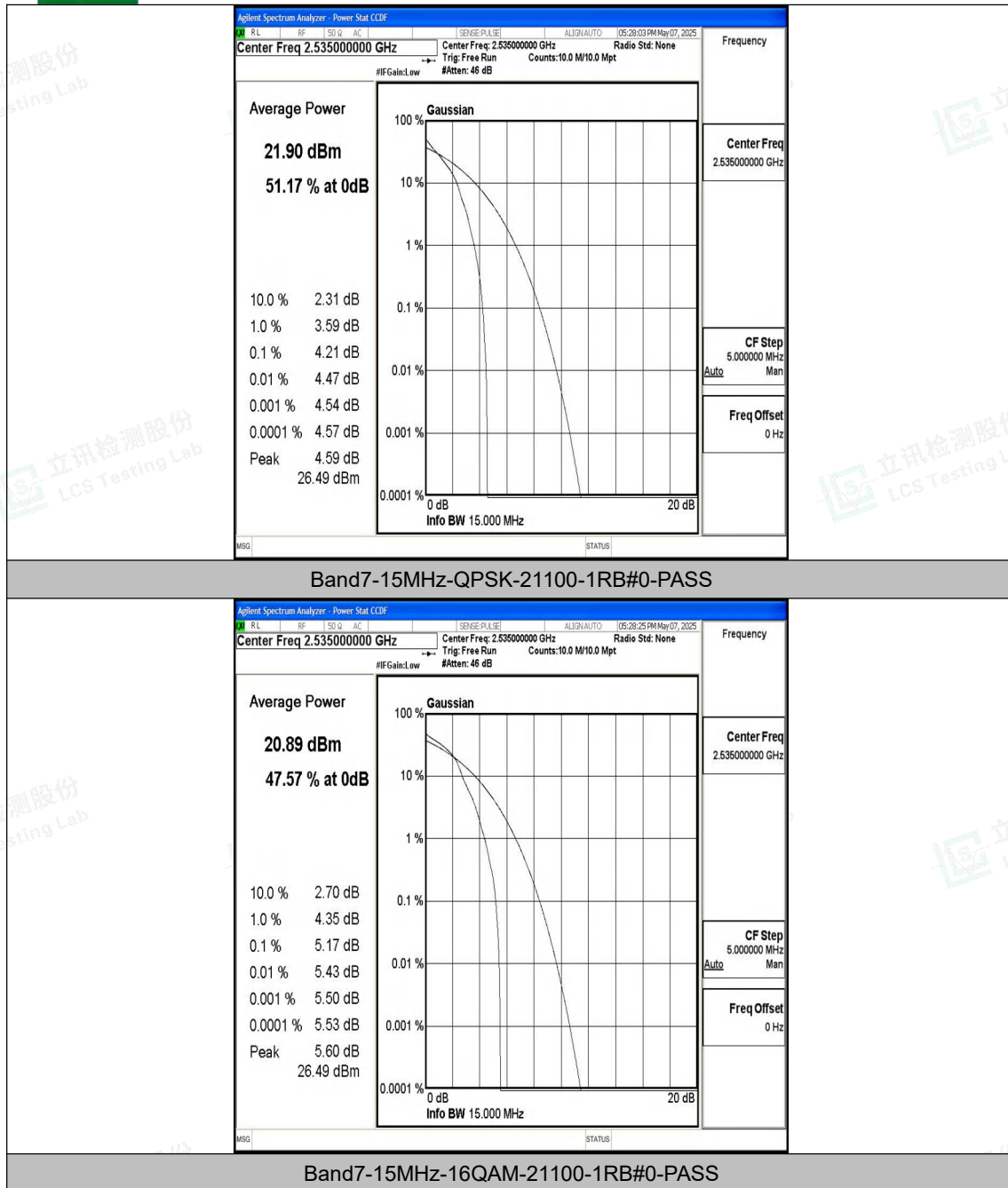
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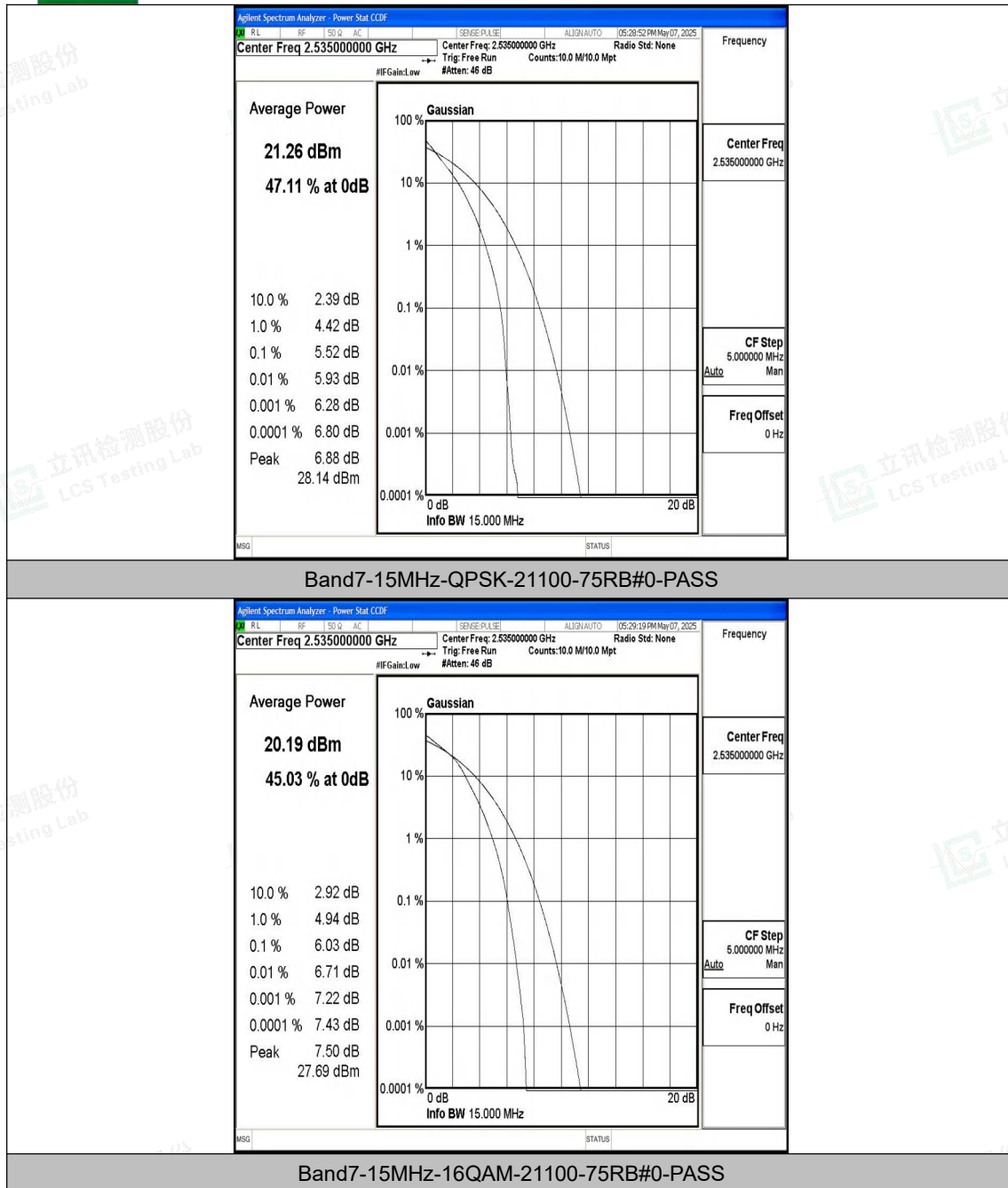


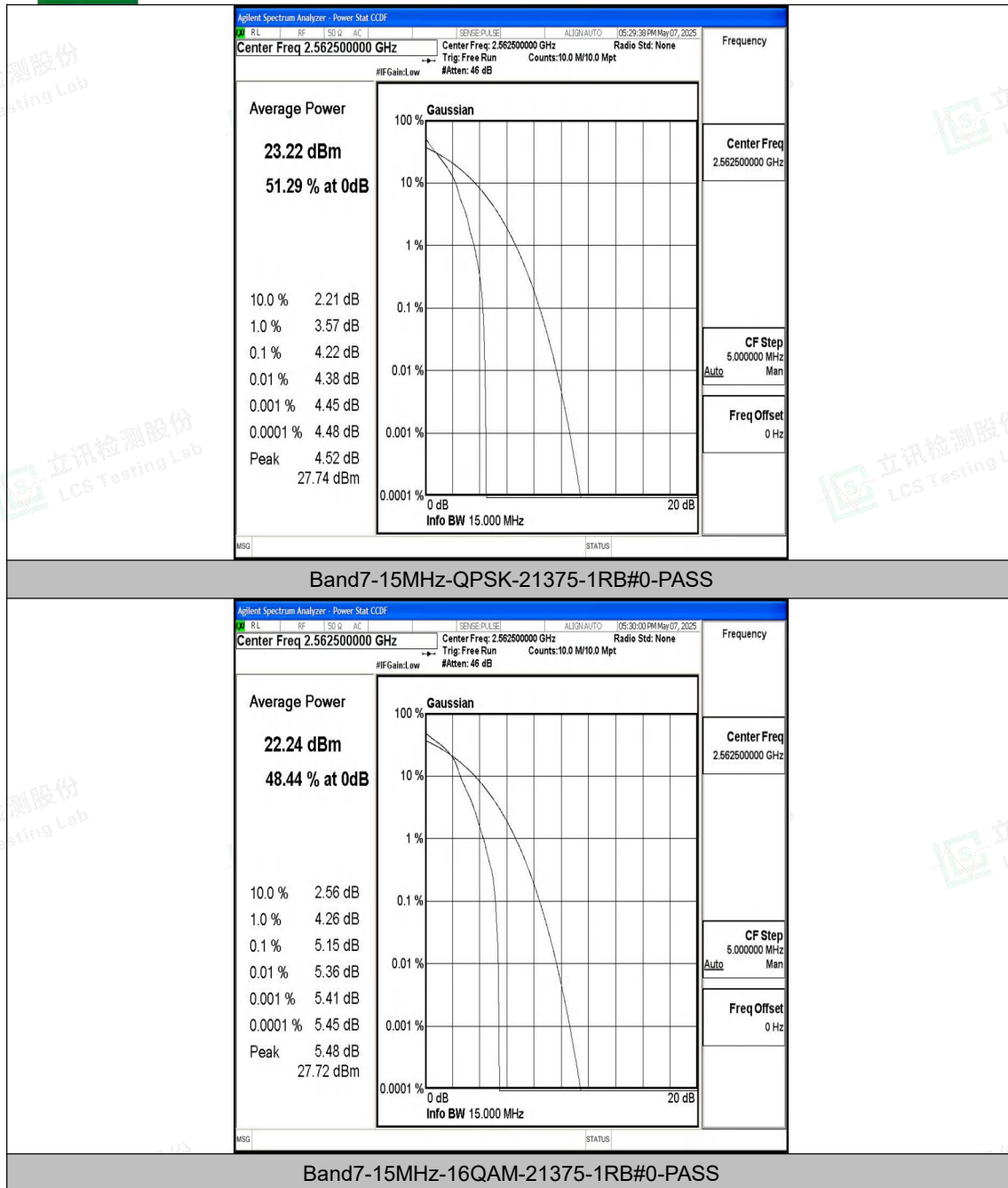
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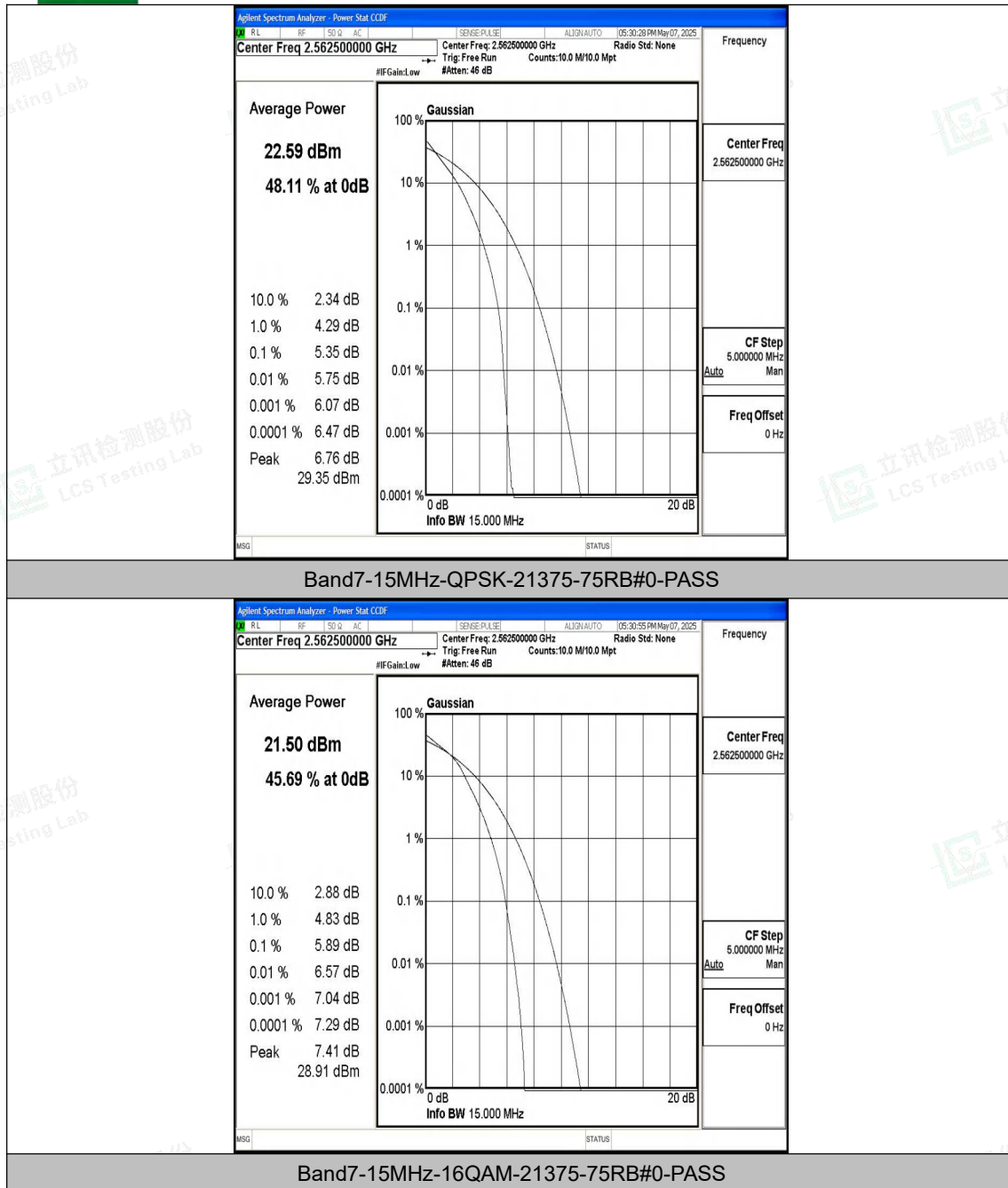
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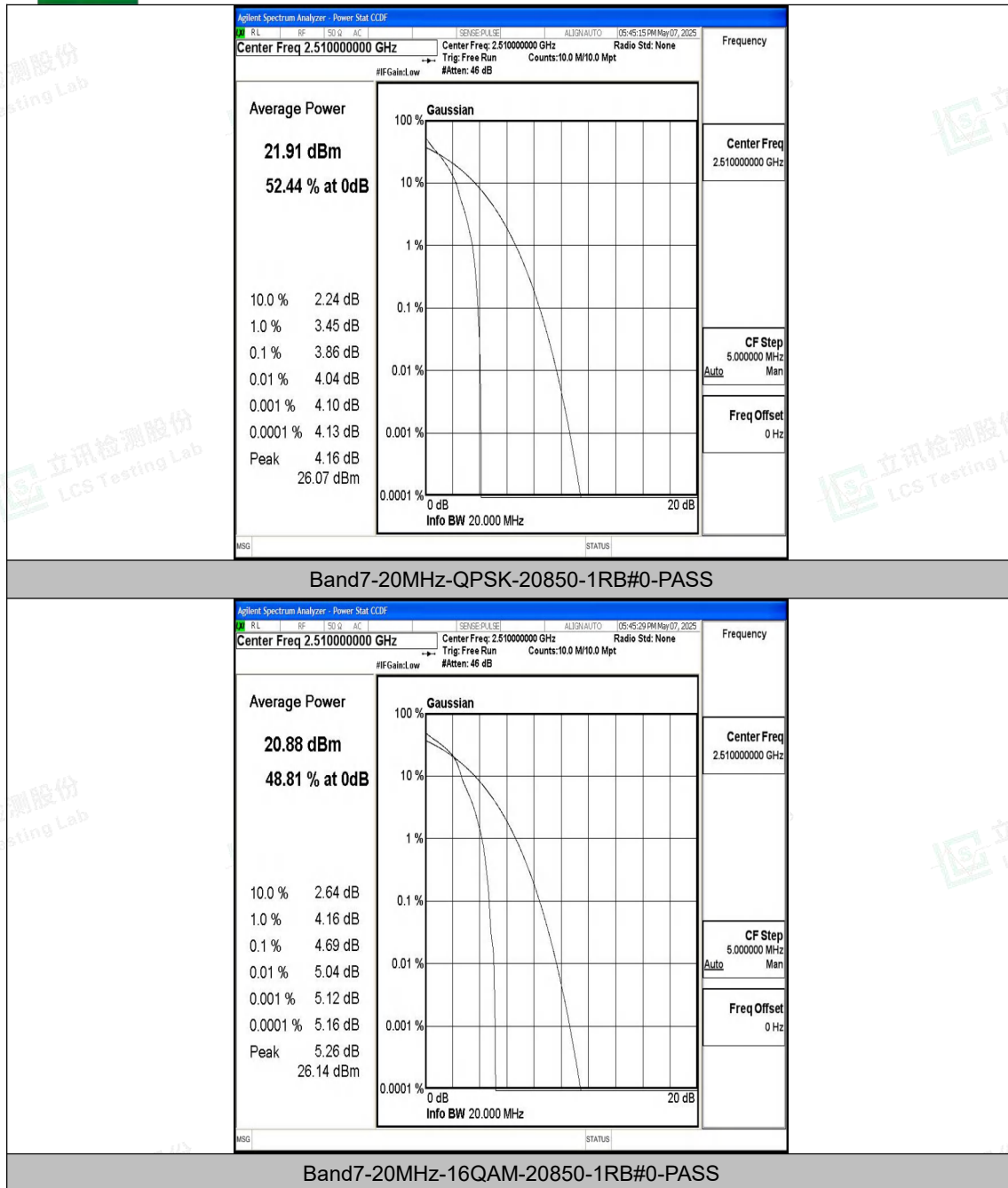
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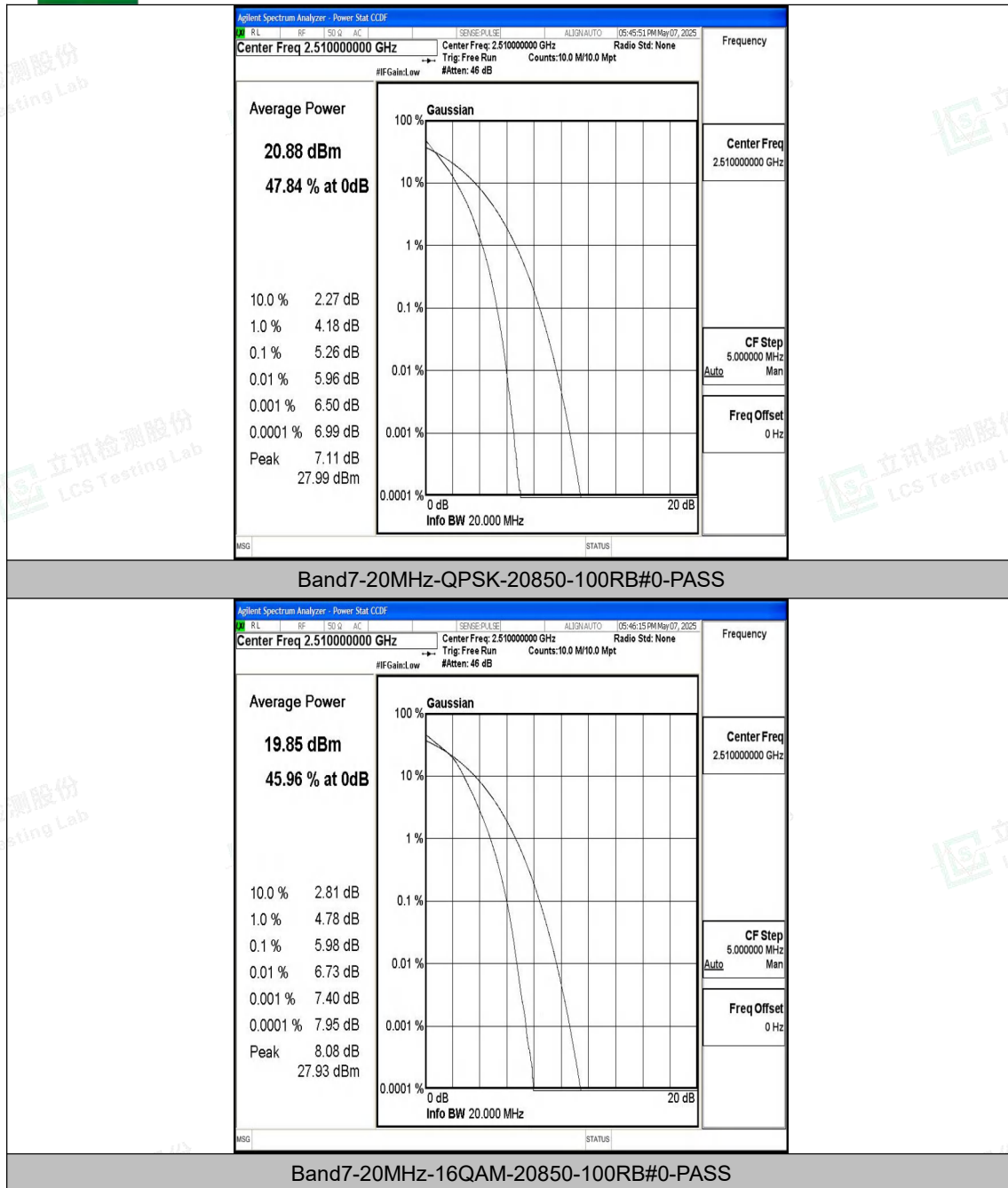


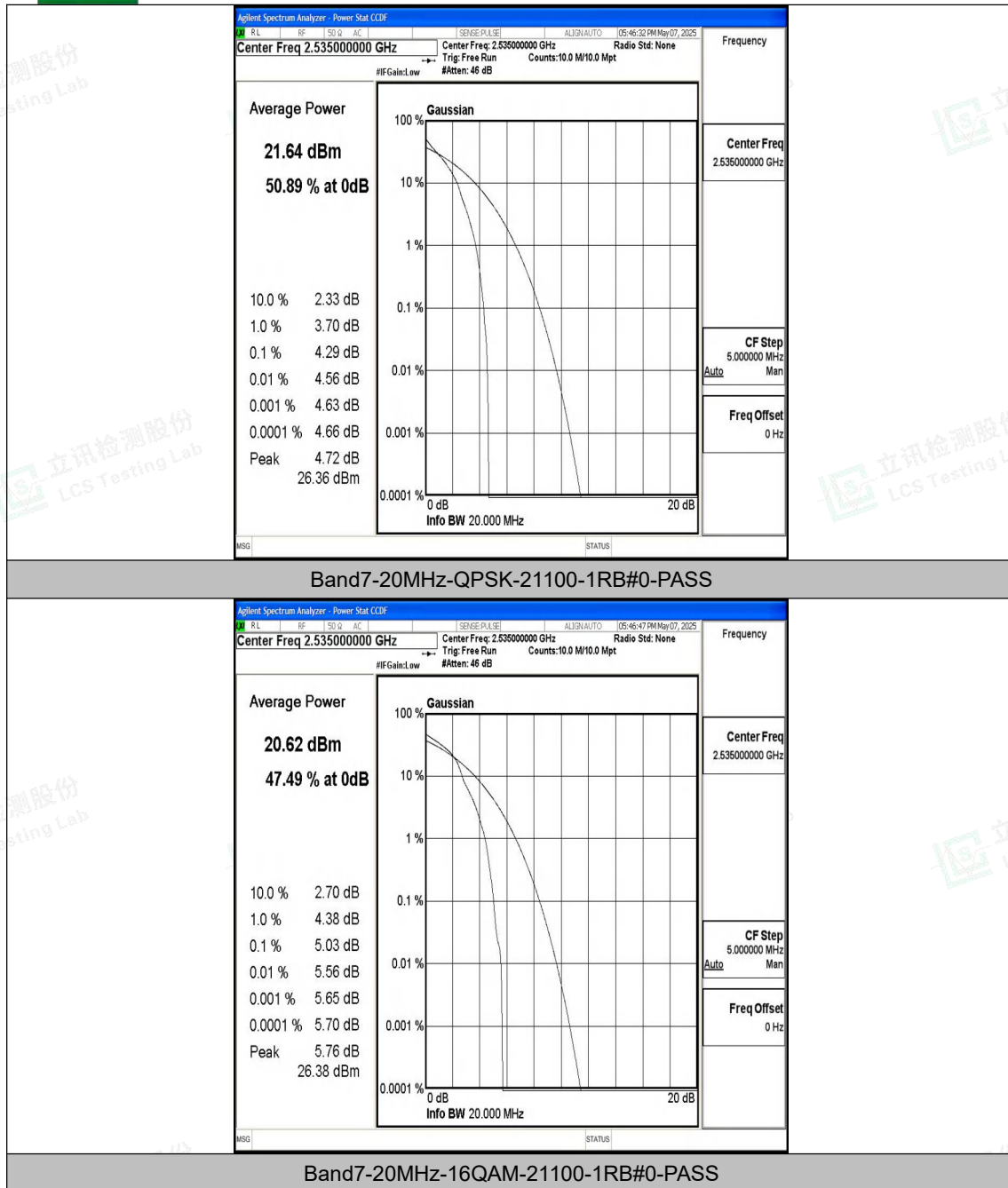
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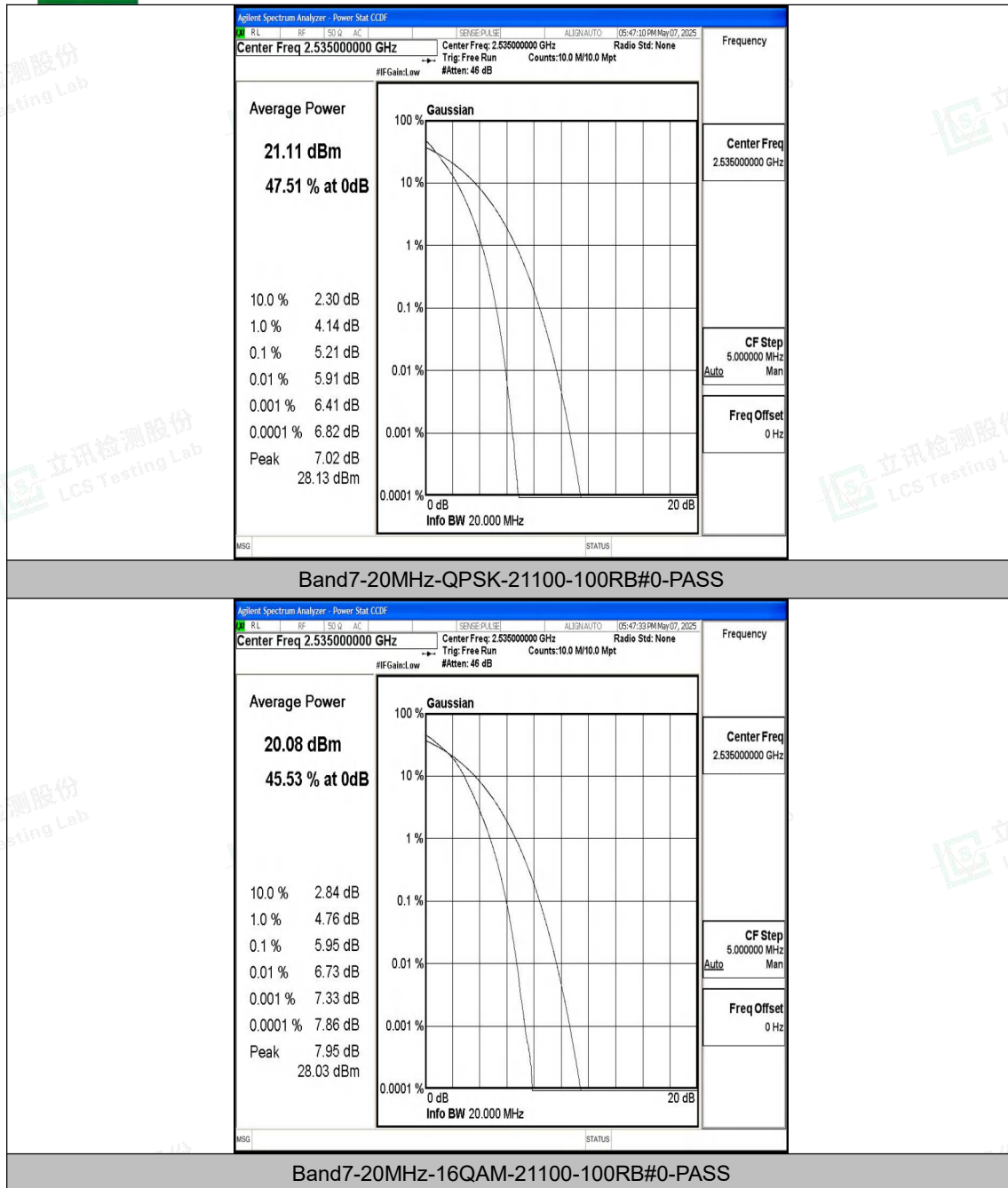
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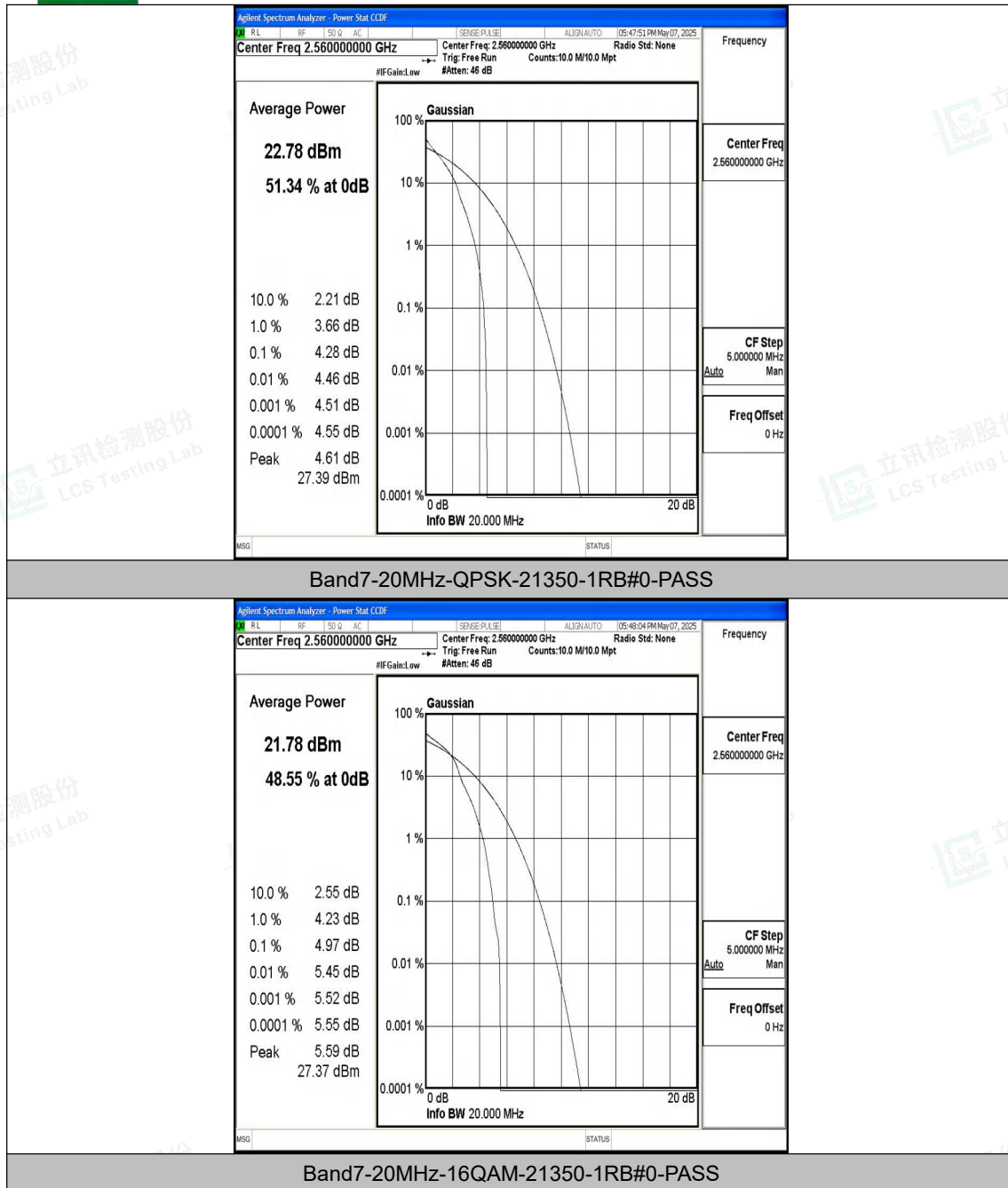


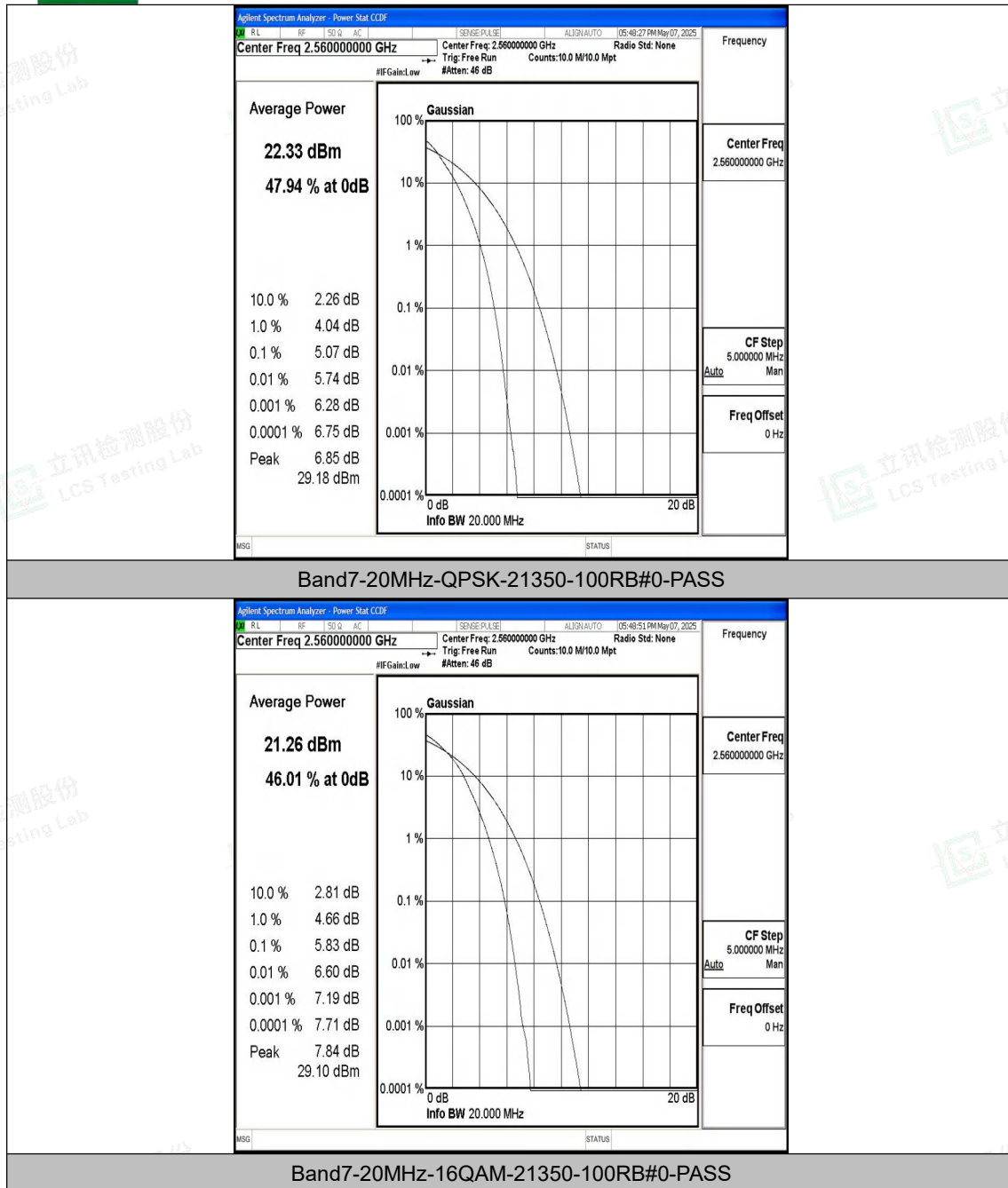
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I.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5125	4.984	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4951	4.979	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4975	4.987	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4959	4.946	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4951	4.920	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5021	5.058	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0018	9.863	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9703	9.732	PASS
Band7	10MHz	QPSK	21100	50RB#0	9.0098	9.777	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9886	9.724	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9917	9.792	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9730	9.721	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.470	14.68	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.491	14.65	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.489	14.72	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.466	14.53	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.465	14.56	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.433	14.62	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.995	22.79	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.961	19.38	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.953	19.42	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.912	19.33	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.914	19.25	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.919	19.28	PASS



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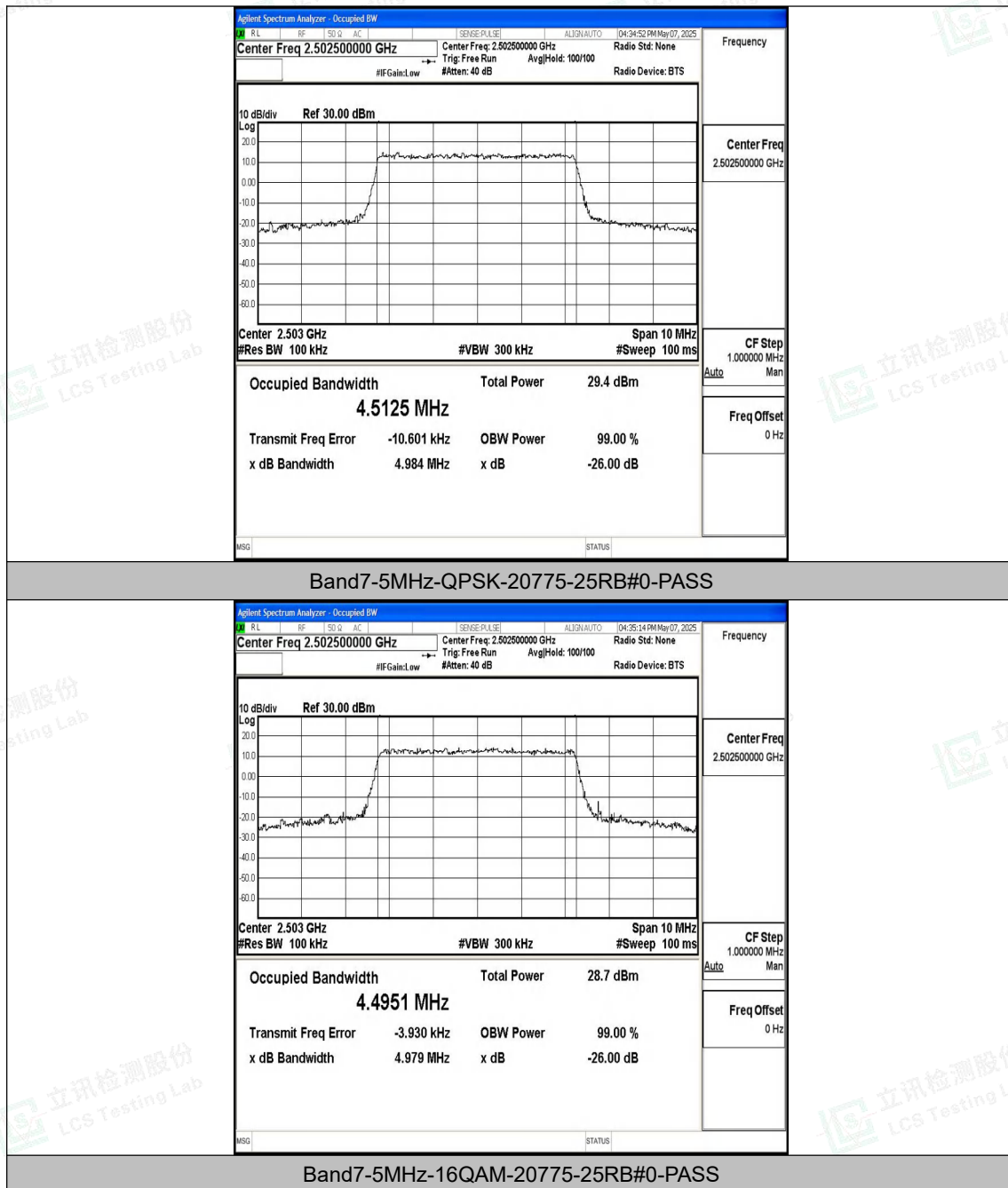
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Test Graphs

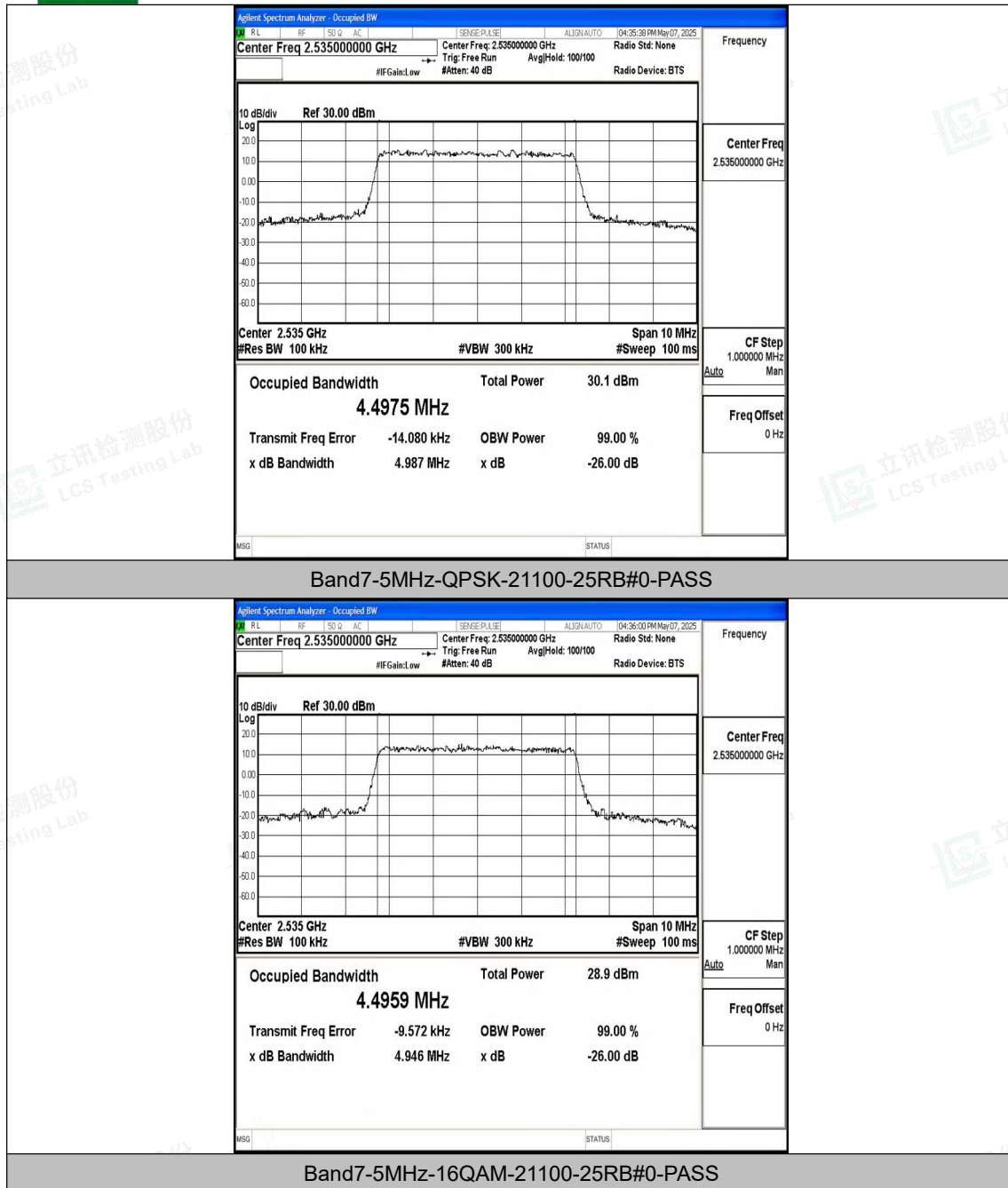


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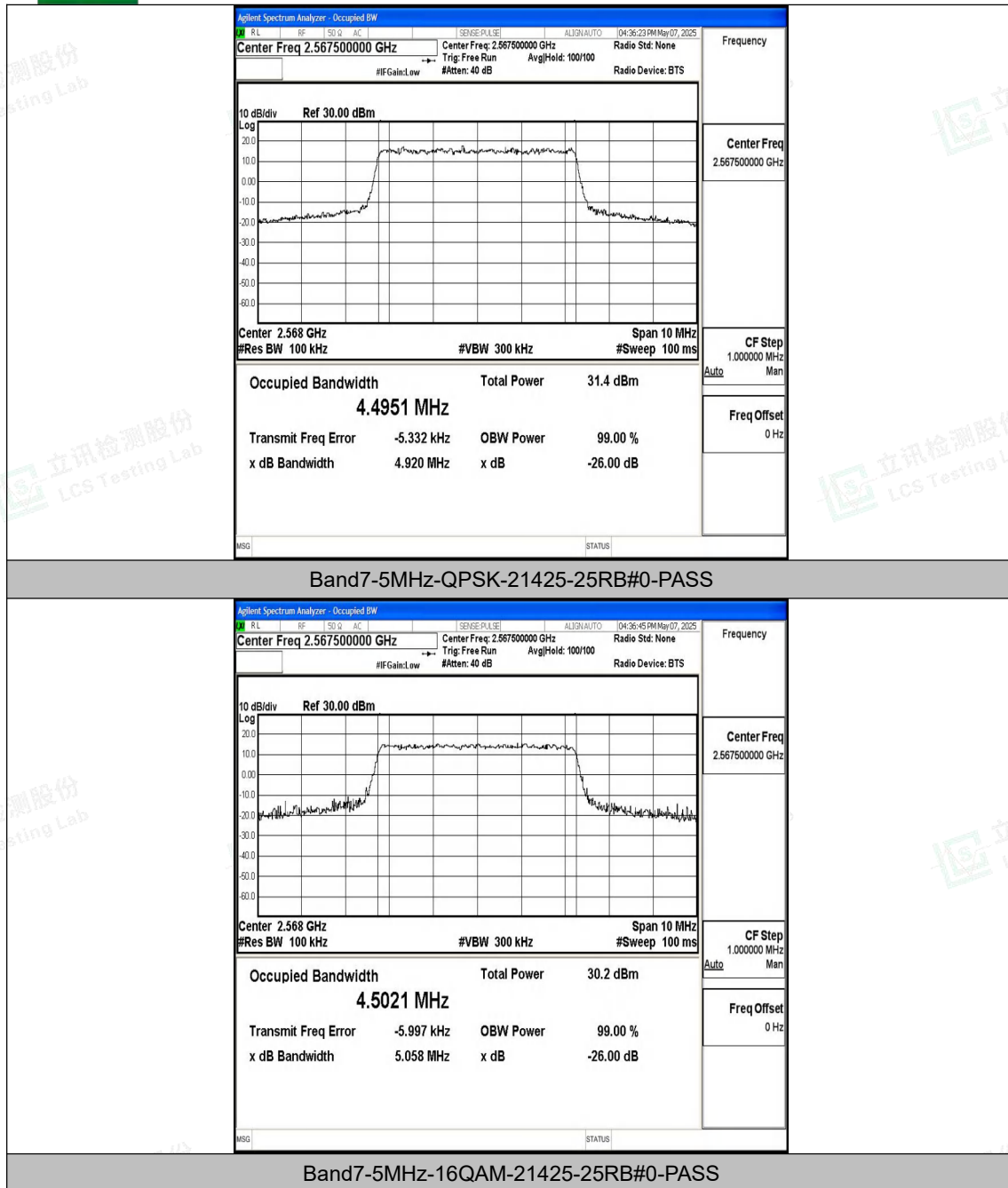


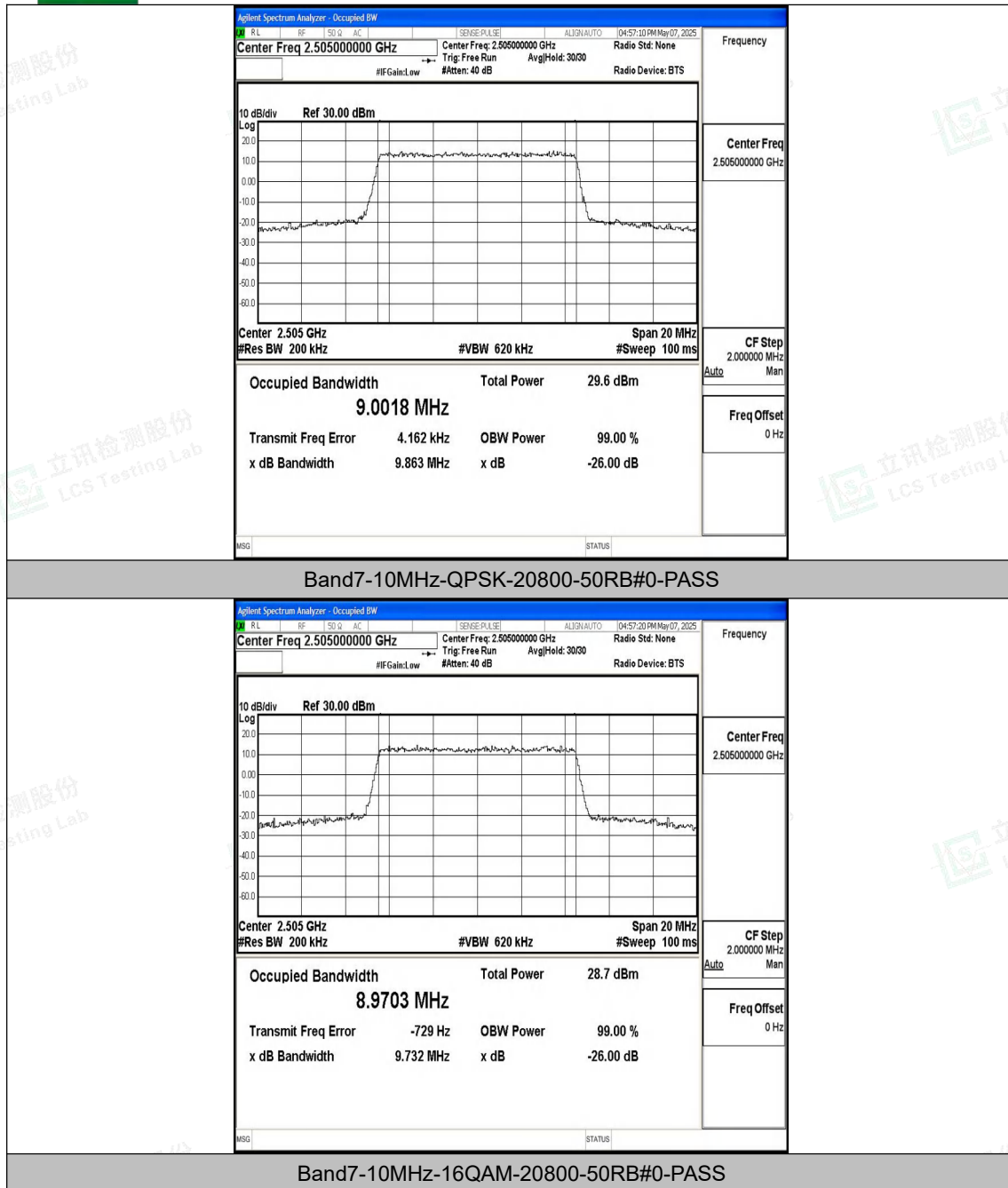
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