



Appendix H: Test Data for E-UTRA Band 7

Product Name: Smart POS

Test Model: WIZARPOS Q3 PDA

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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H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.48	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.38	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.97	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.17	PASS
Band7	5MHz	16QAM	20775	1RB#24	23.25	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.99	PASS
Band7	5MHz	16QAM	20775	12RB#0	23.34	PASS
Band7	5MHz	QPSK	20775	12RB#6	23.31	PASS
Band7	5MHz	16QAM	20775	12RB#6	23.76	PASS
Band7	5MHz	QPSK	20775	12RB#13	23.84	PASS
Band7	5MHz	16QAM	20775	12RB#13	23.75	PASS
Band7	5MHz	QPSK	20775	25RB#0	23.59	PASS
Band7	5MHz	16QAM	20775	25RB#0	23.26	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.21	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.98	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.16	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.09	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.67	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.13	PASS
Band7	5MHz	QPSK	21100	12RB#0	23.23	PASS
Band7	5MHz	16QAM	21100	12RB#0	22.90	PASS
Band7	5MHz	QPSK	21100	12RB#6	23.19	PASS
Band7	5MHz	16QAM	21100	12RB#6	22.89	PASS
Band7	5MHz	QPSK	21100	12RB#13	23.58	PASS
Band7	5MHz	16QAM	21100	12RB#13	22.39	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.62	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.75	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.29	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.38	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.24	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.66	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.32	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.40	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.97	PASS
Band7	5MHz	16QAM	21425	12RB#0	22.42	PASS



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Band7	5MHz	QPSK	21425	12RB#6	23.06	PASS
Band7	5MHz	16QAM	21425	12RB#6	22.96	PASS
Band7	5MHz	QPSK	21425	12RB#13	23.23	PASS
Band7	5MHz	16QAM	21425	12RB#13	22.61	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.14	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.18	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.49	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.39	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.61	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.72	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.41	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.80	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.49	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.10	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.99	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.78	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.42	PASS
Band7	10MHz	16QAM	20800	25RB#25	22.34	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.14	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.66	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.36	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.02	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.63	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.32	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.04	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.93	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.47	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.19	PASS
Band7	10MHz	16QAM	21100	25RB#12	22.11	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.61	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.98	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.18	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.18	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.65	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.35	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.82	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.55	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.77	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.57	PASS



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Band7	10MHz	QPSK	21400	25RB#0	22.44	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.97	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.41	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.92	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.97	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.10	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.52	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.52	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.75	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.92	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.35	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.09	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.12	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.27	PASS
Band7	15MHz	QPSK	20825	38RB#0	22.27	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.72	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.33	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.73	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.27	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.41	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.85	PASS
Band7	15MHz	16QAM	20825	75RB#0	22.16	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.22	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.23	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.46	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.86	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.88	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.38	PASS
Band7	15MHz	QPSK	21100	38RB#0	22.04	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.45	PASS
Band7	15MHz	QPSK	21100	38RB#18	22.28	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.72	PASS
Band7	15MHz	QPSK	21100	38RB#37	22.38	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.31	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.49	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.27	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.13	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.76	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.08	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.86	PASS



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Band7	15MHz	QPSK	21375	1RB#74	22.38	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.12	PASS
Band7	15MHz	QPSK	21375	38RB#0	22.08	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.49	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.99	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.77	PASS
Band7	15MHz	QPSK	21375	38RB#37	22.08	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.88	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.96	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.81	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.10	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.97	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.70	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.74	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.21	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.57	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.88	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.86	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.17	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.93	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.85	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.71	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.13	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.88	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.06	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.04	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.38	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.08	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.53	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.99	PASS
Band7	20MHz	16QAM	21100	50RB#0	22.07	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.23	PASS
Band7	20MHz	16QAM	21100	50RB#25	22.05	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.91	PASS
Band7	20MHz	16QAM	21100	50RB#50	22.02	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.63	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.67	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.82	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.03	PASS



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Band7	20MHz	QPSK	21350	1RB#49	23.46	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.86	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.58	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.29	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.04	PASS
Band7	20MHz	16QAM	21350	50RB#0	22.09	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.87	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.81	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.16	PASS
Band7	20MHz	16QAM	21350	50RB#50	22.03	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.18	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.72	PASS





H.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	4.47	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.71	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.09	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.70	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.53	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.32	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.35	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.00	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.61	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	5.00	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.06	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.73	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.39	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.65	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.12	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.78	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.40	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.21	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.34	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.04	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.64	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	4.98	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.09	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.80	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.39	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.68	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.42	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.84	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.31	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.05	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.54	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.08	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.66	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.01	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.34	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.86	13	PASS



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Band7	20MHz	QPSK	20850	1RB#0	4.34	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.56	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.18	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.79	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.05	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.02	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.22	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.99	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.57	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	4.84	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.10	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.82	13	PASS



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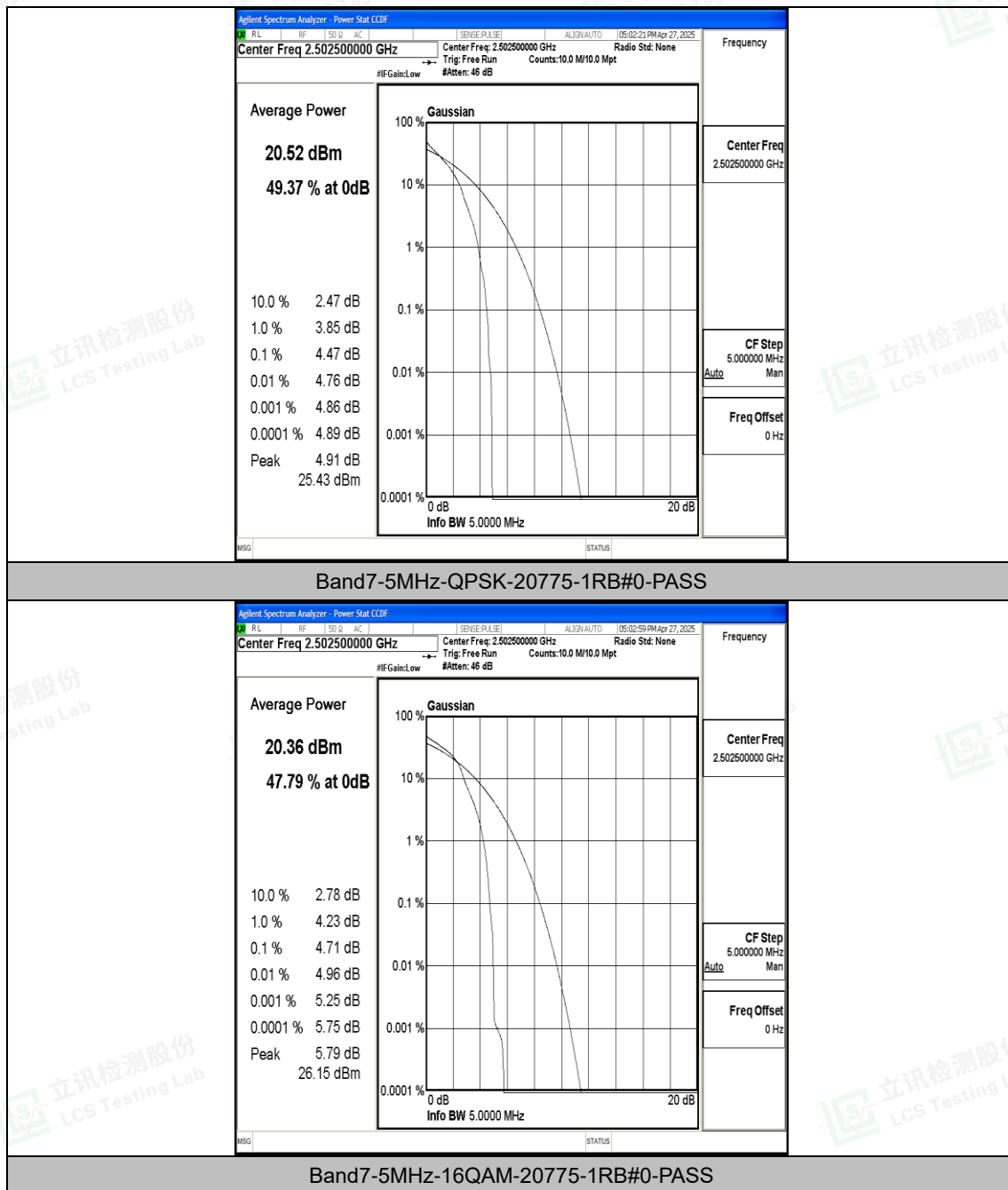
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Test Graphs

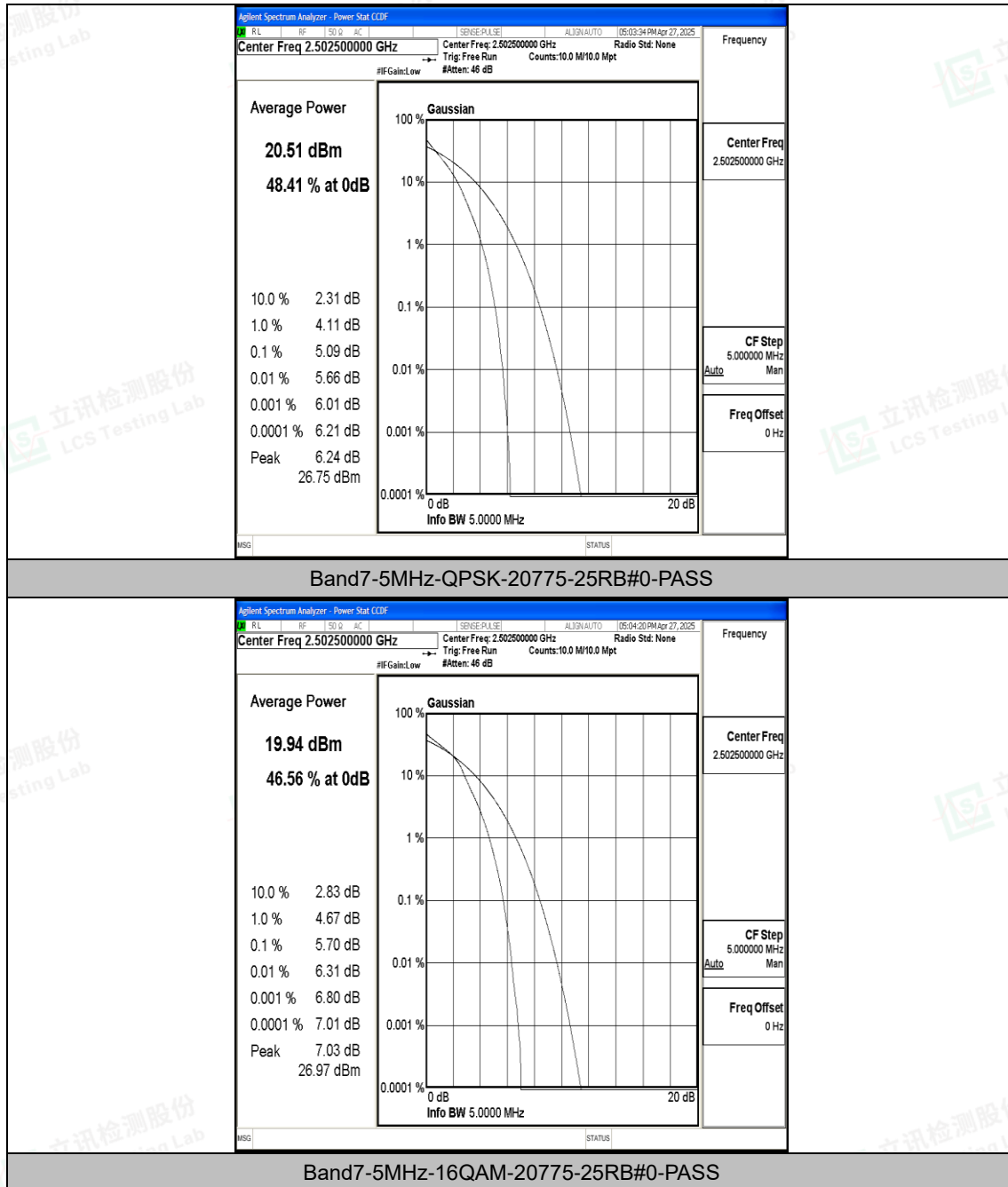


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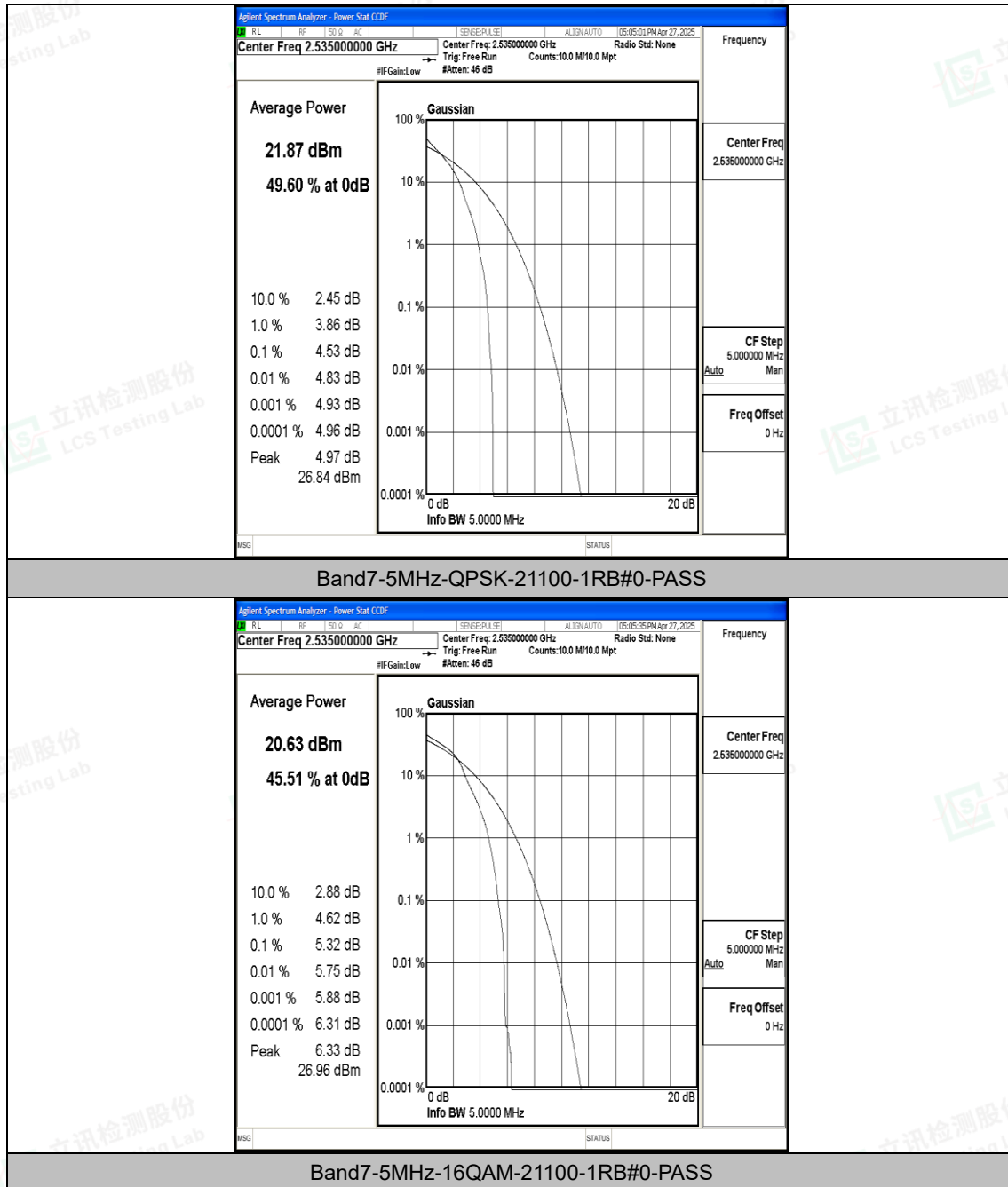


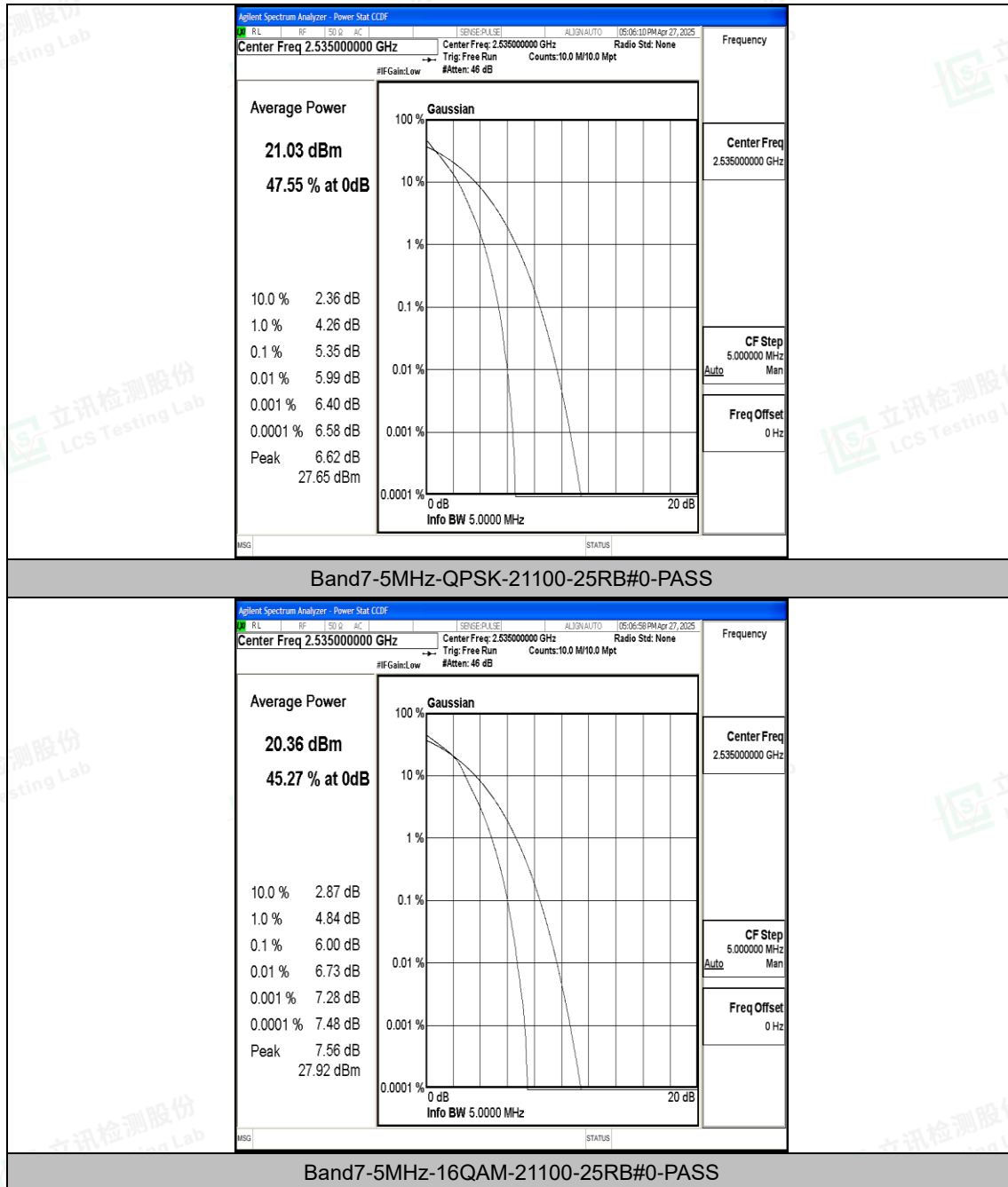
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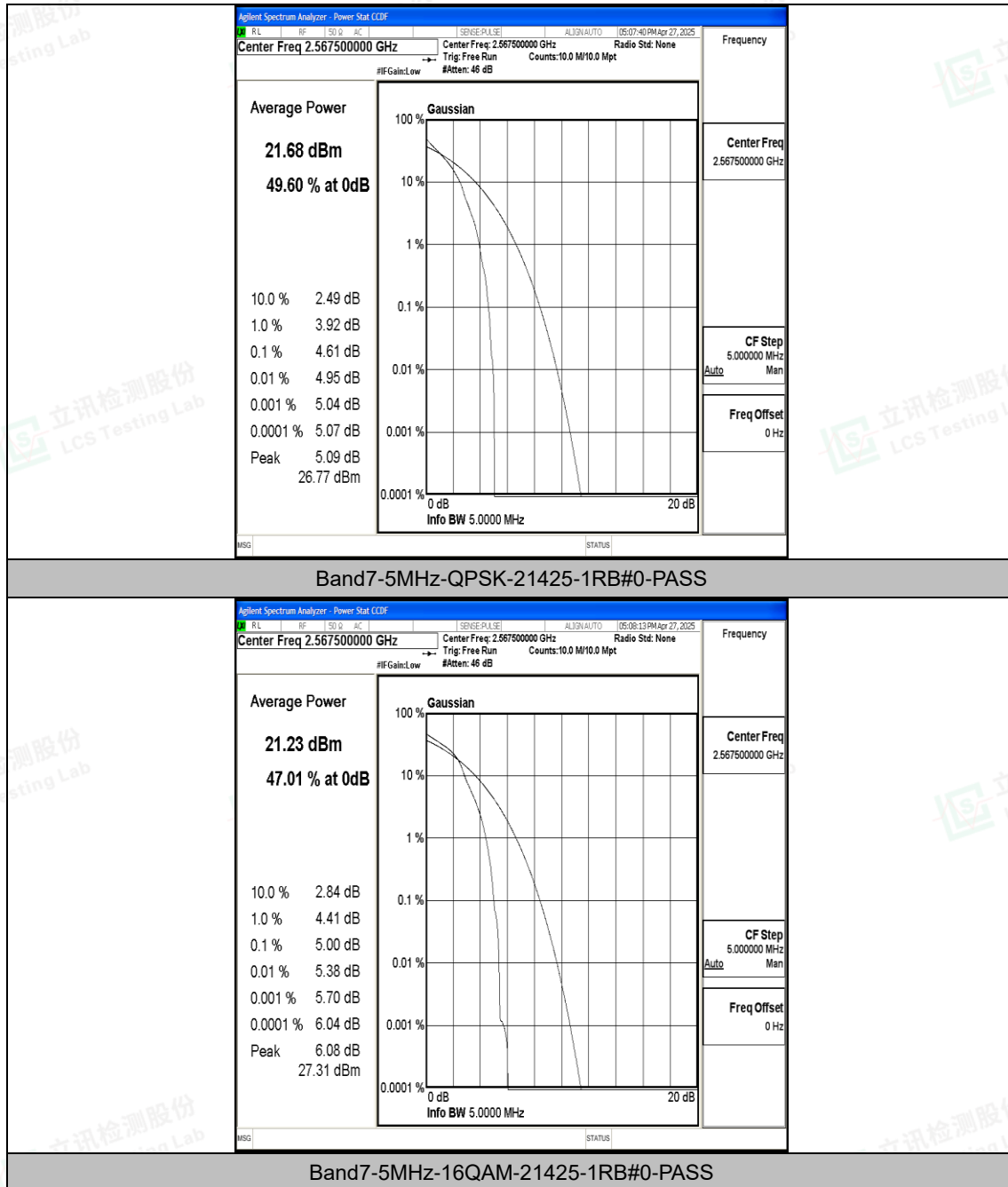
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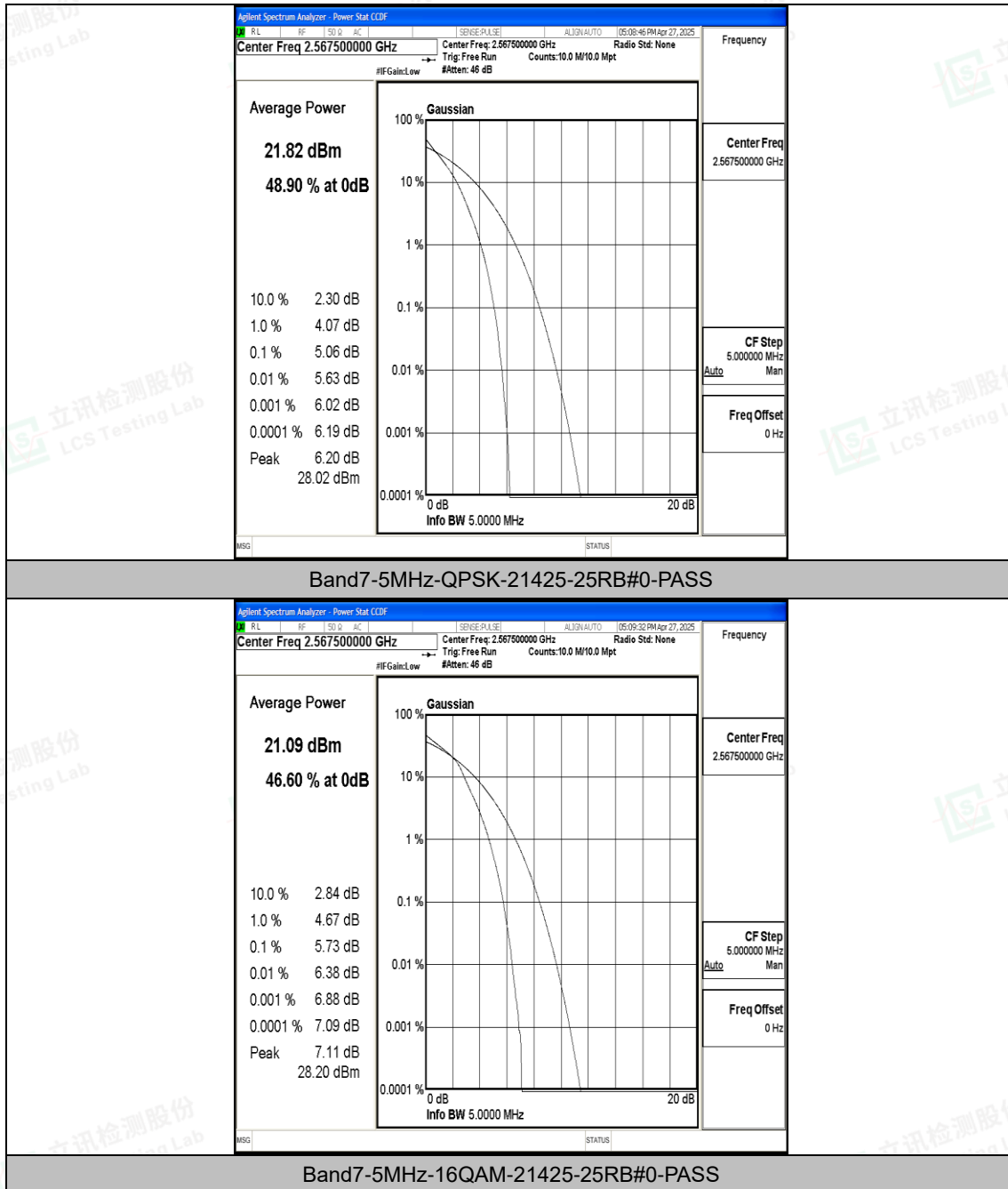
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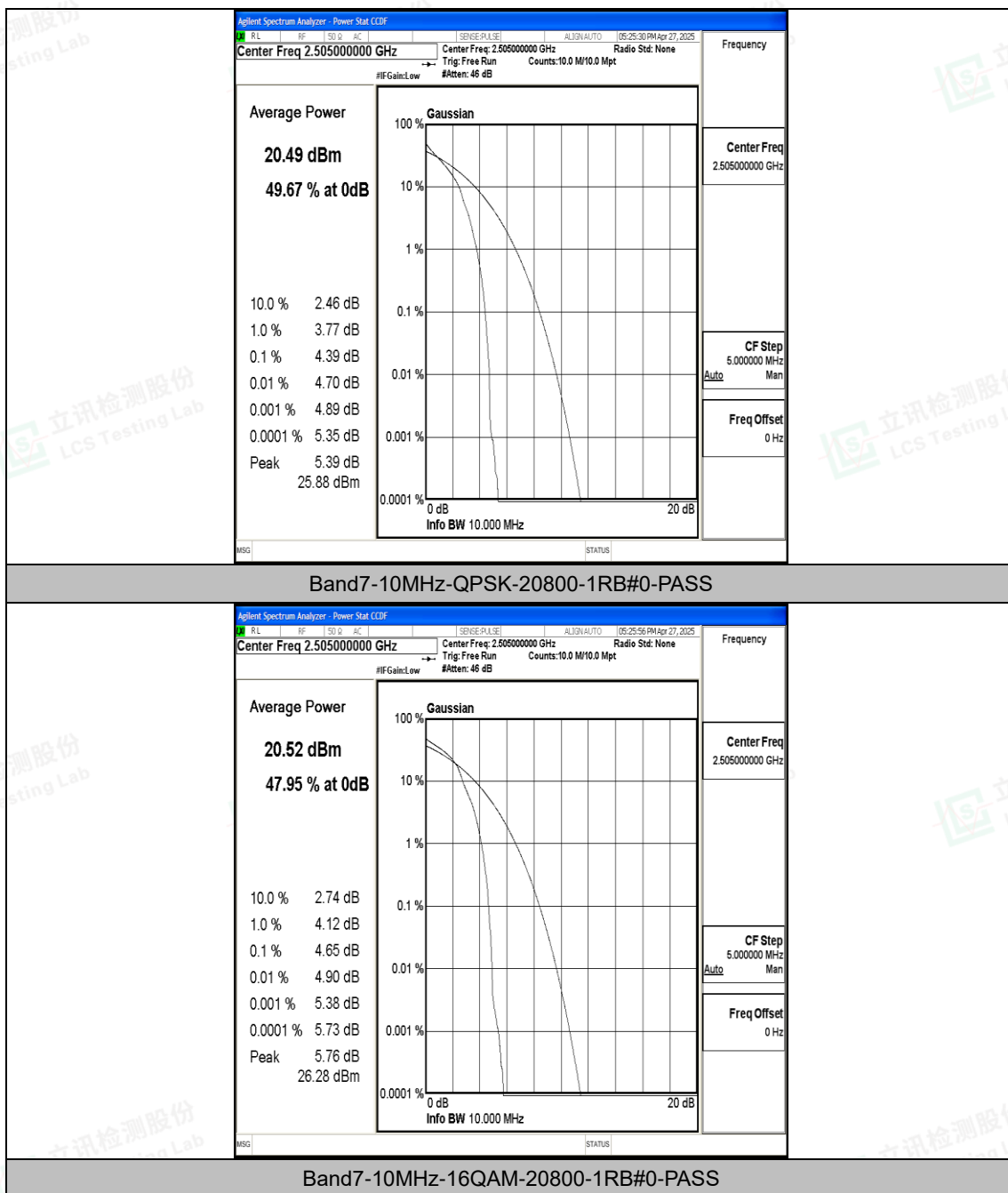
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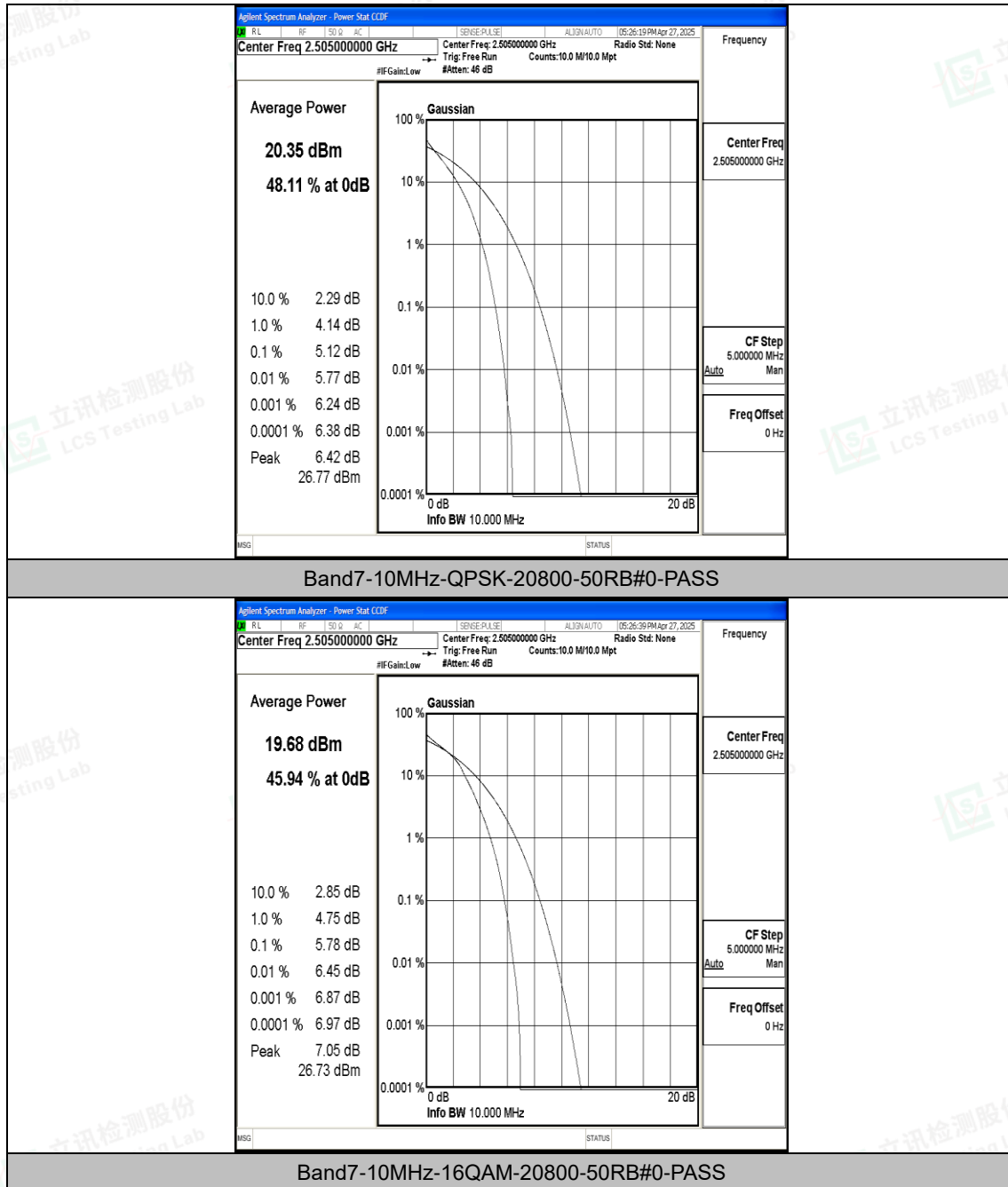


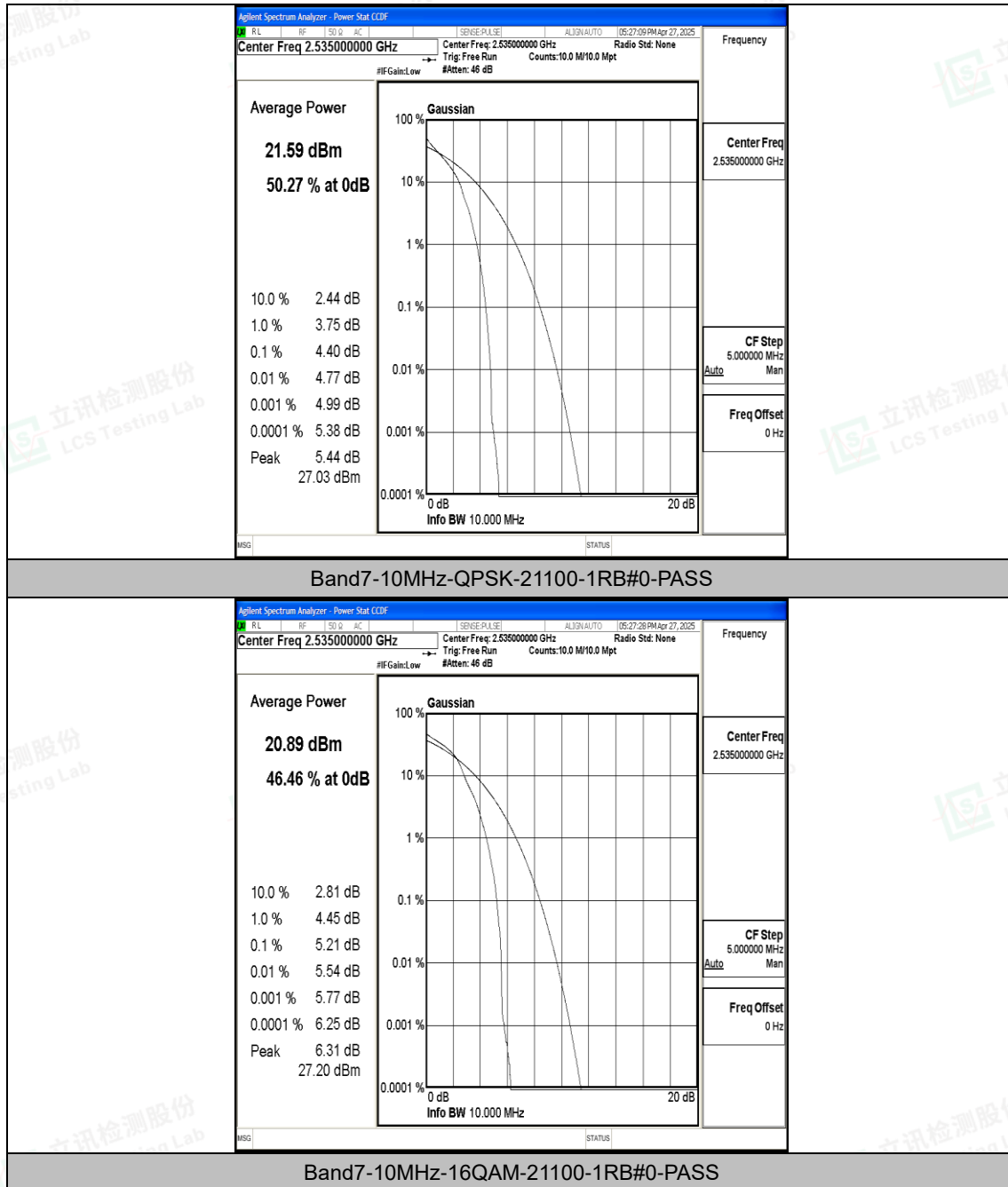
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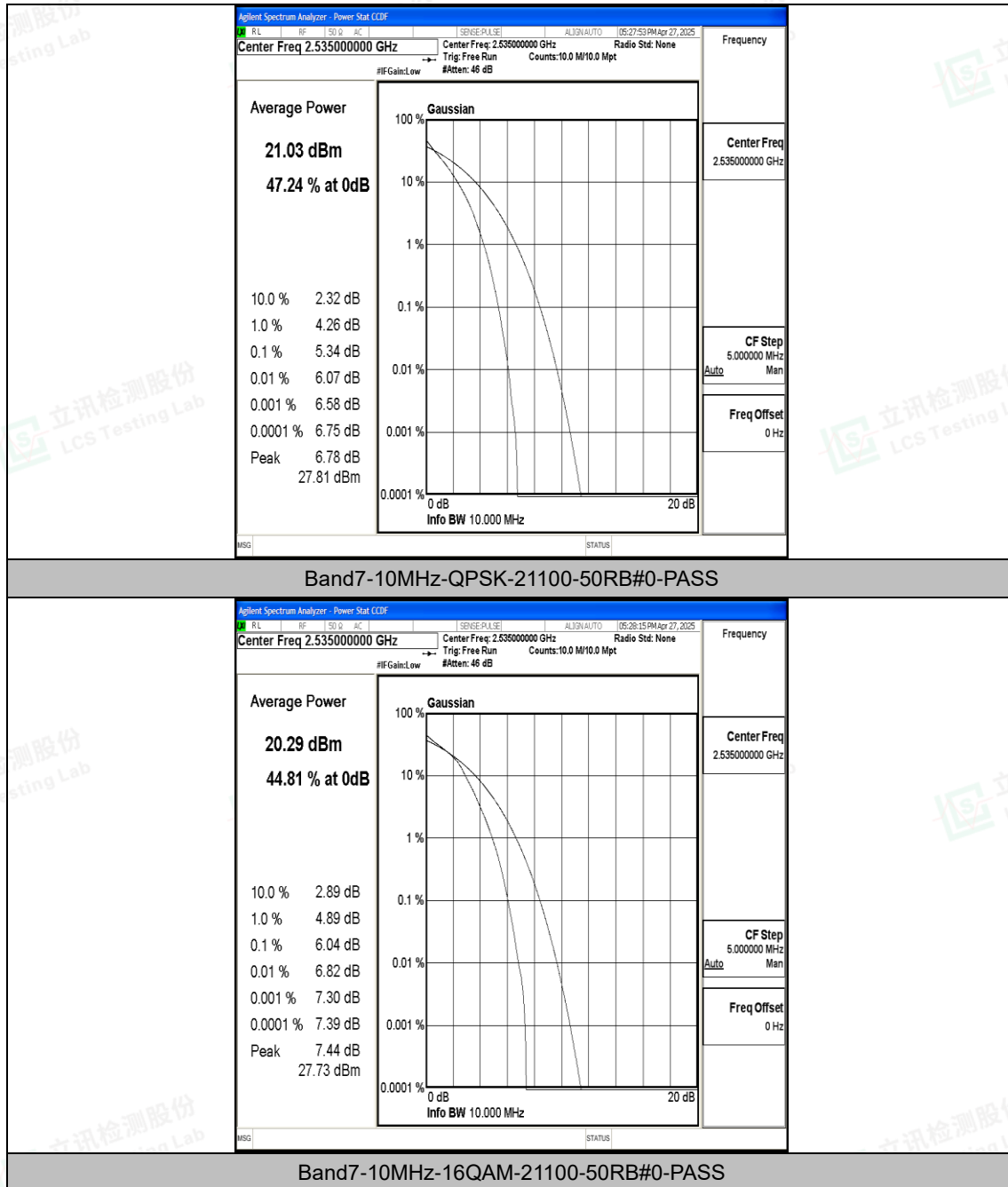
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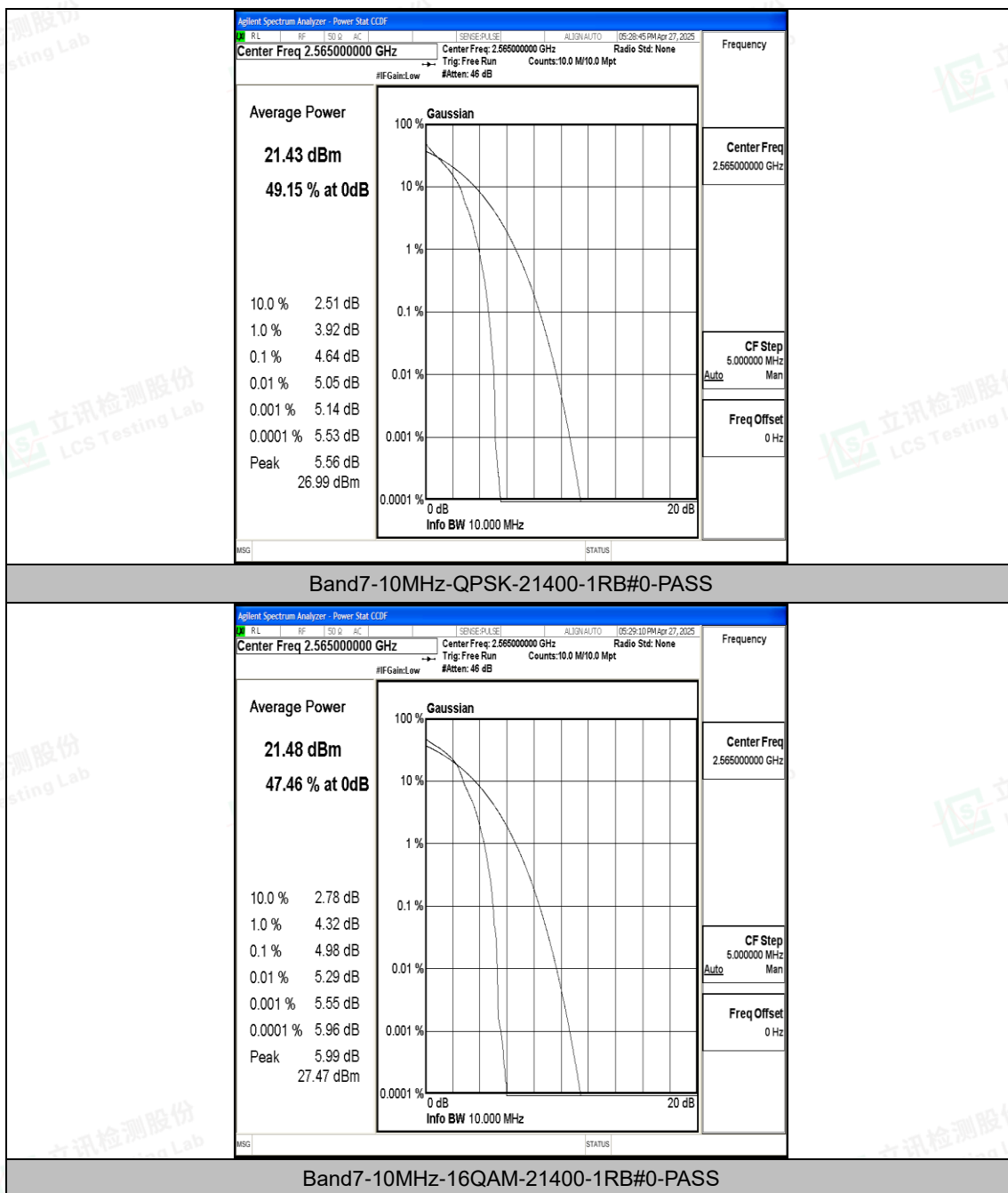
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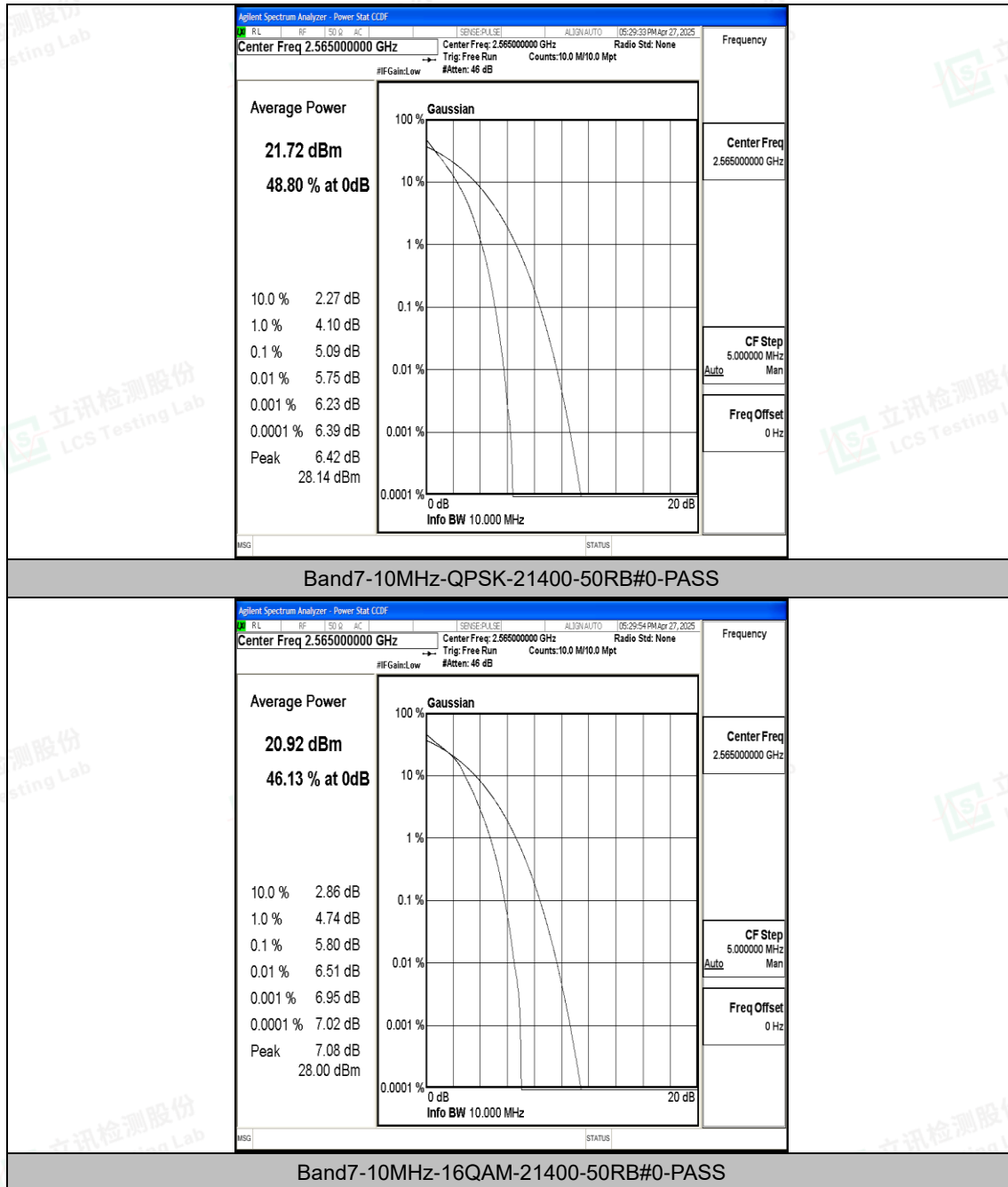


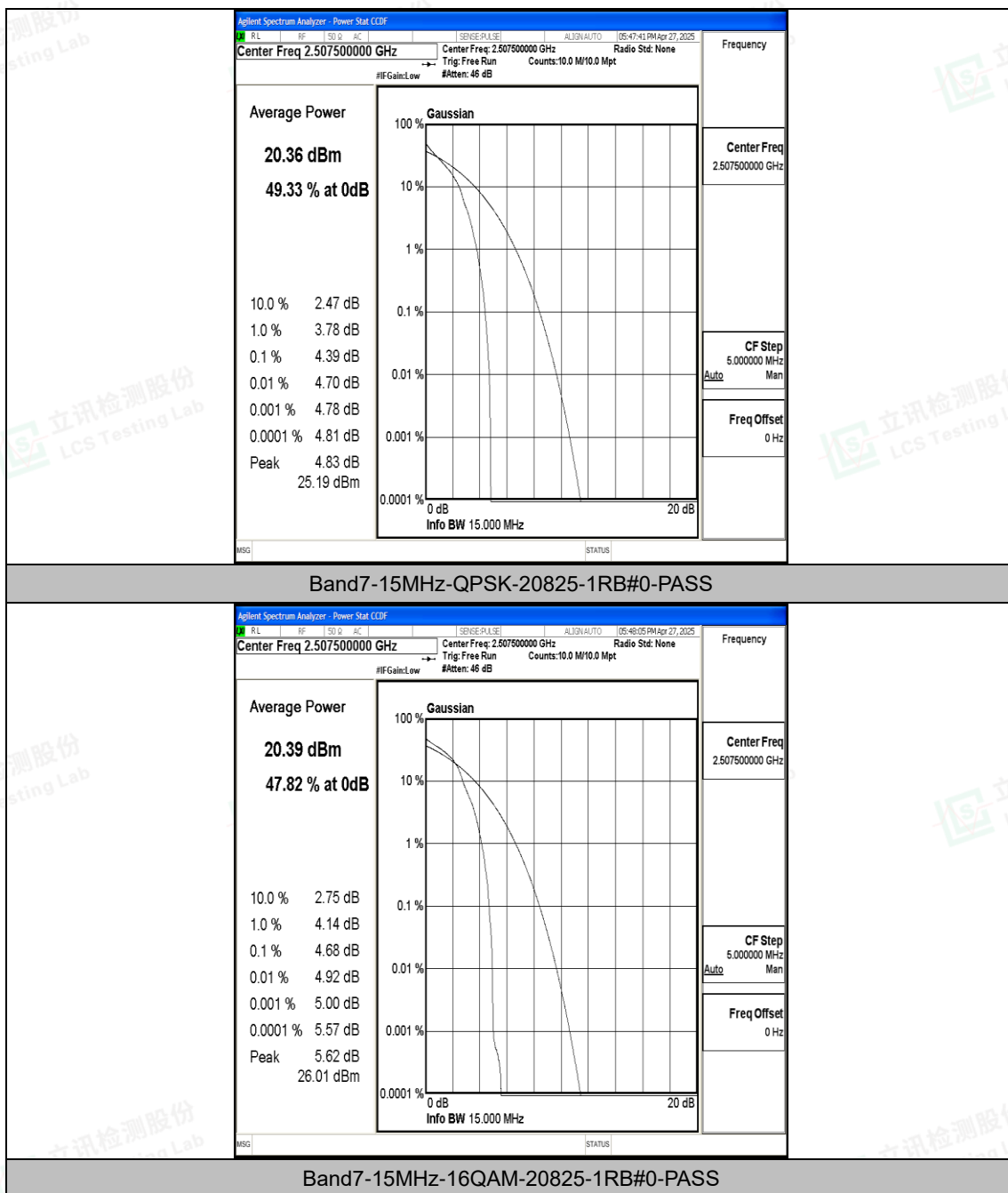
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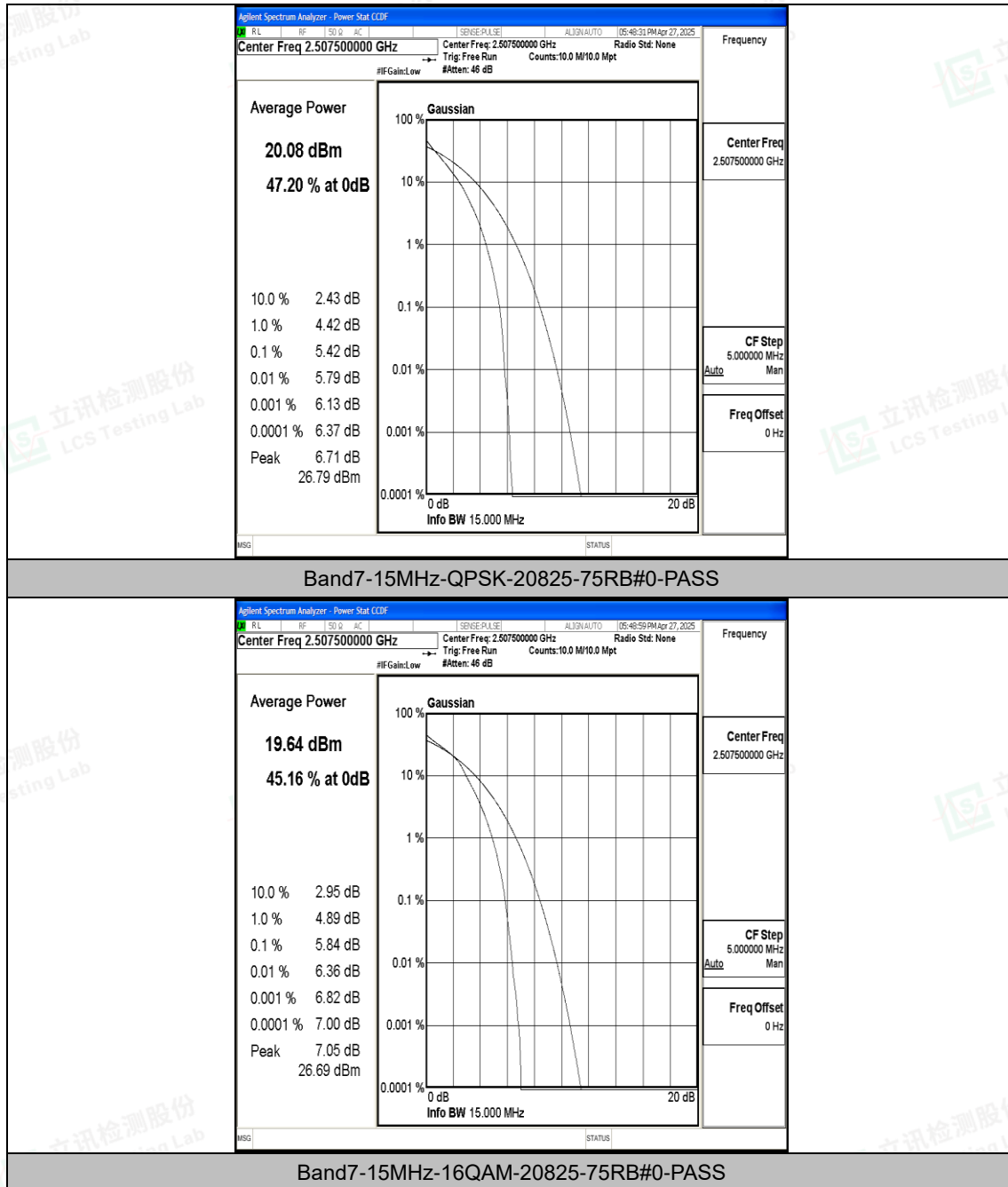


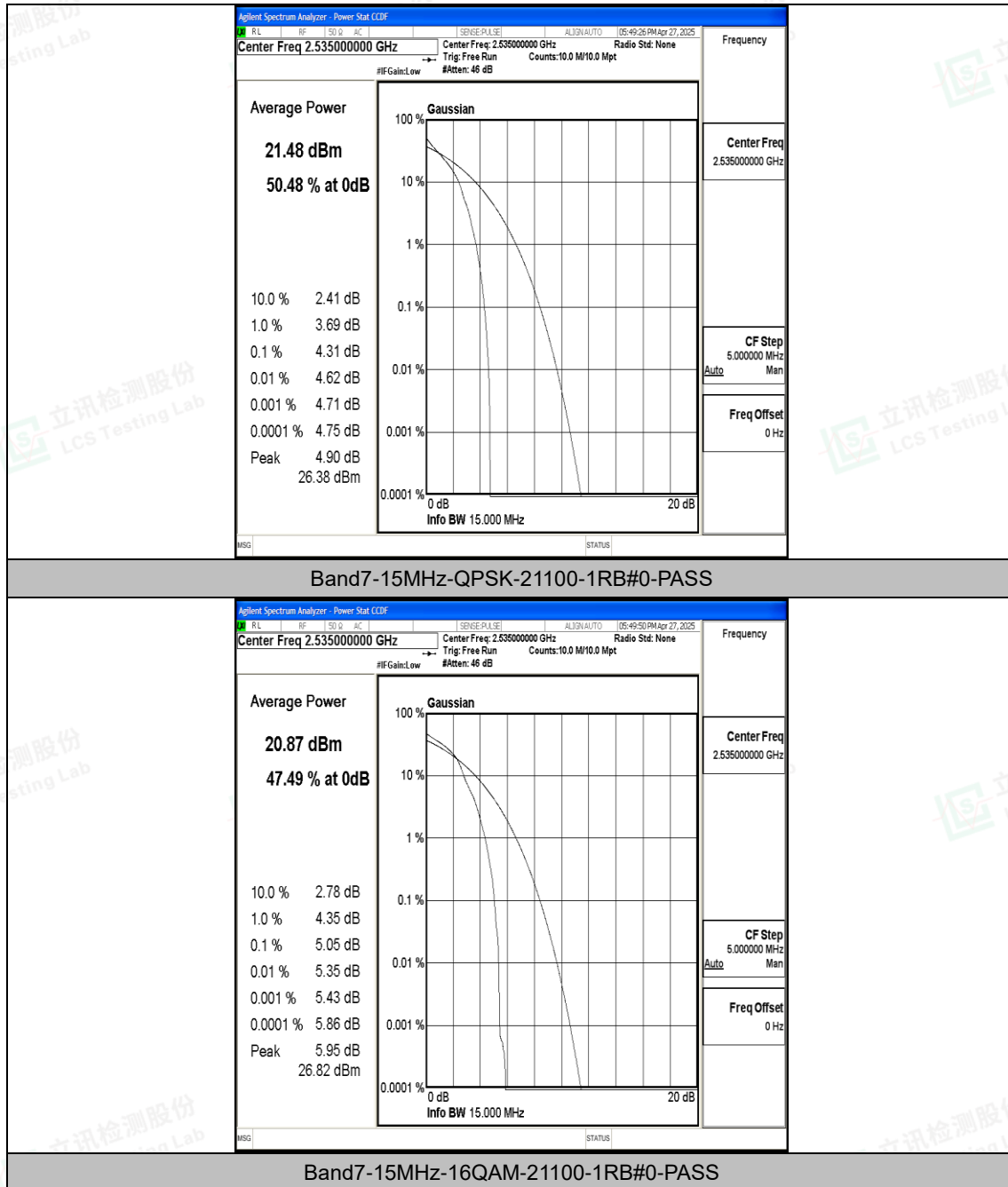
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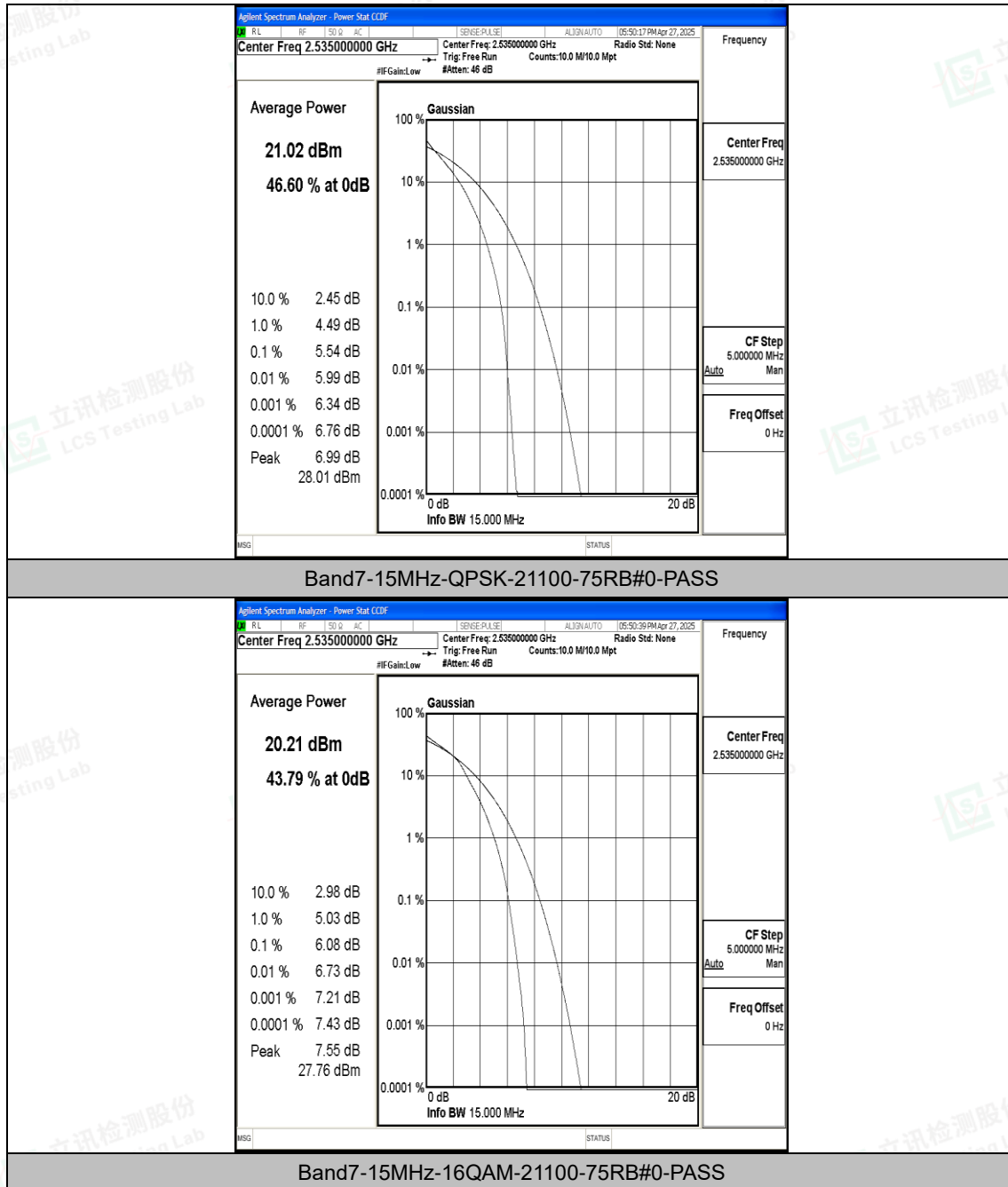
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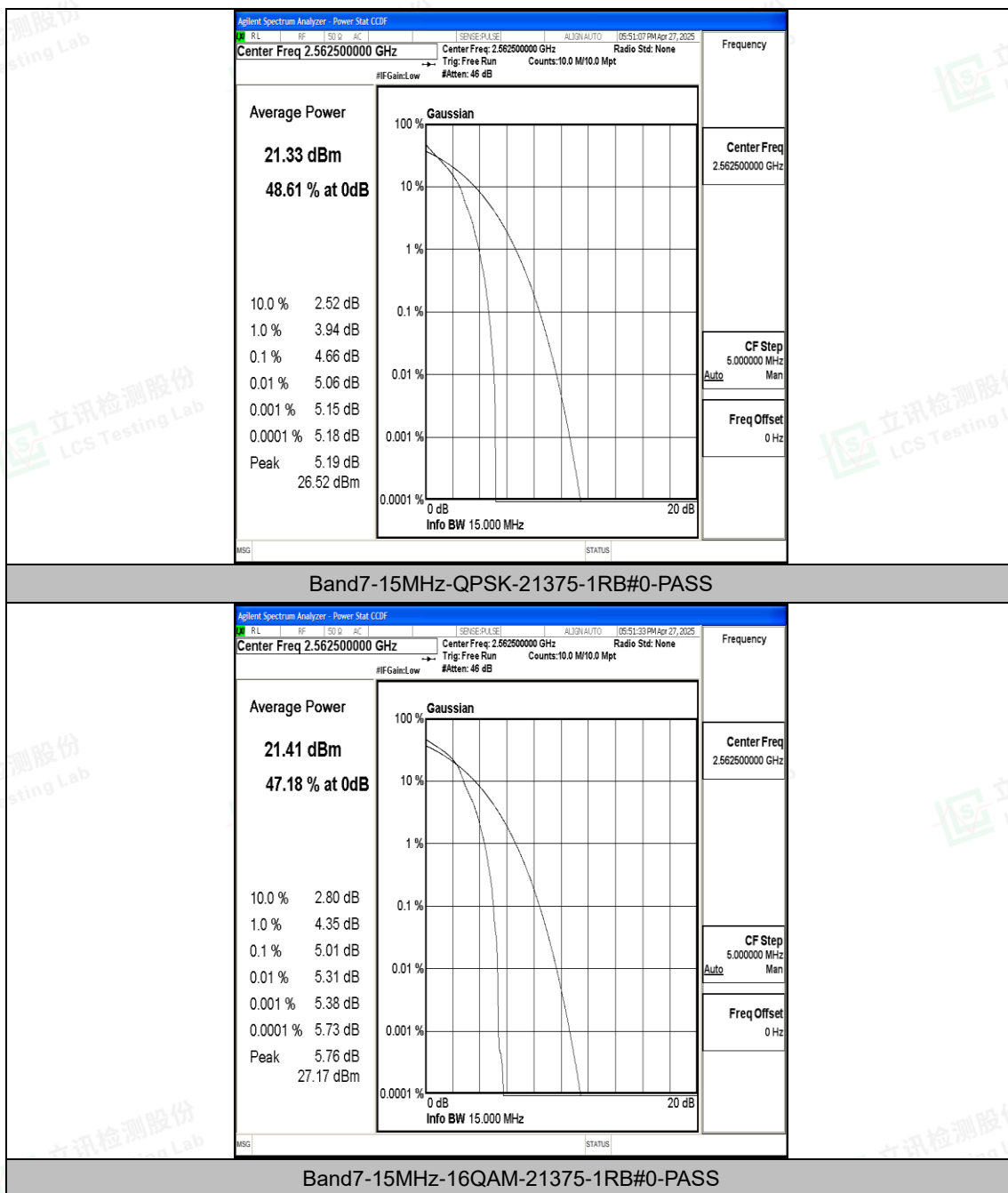
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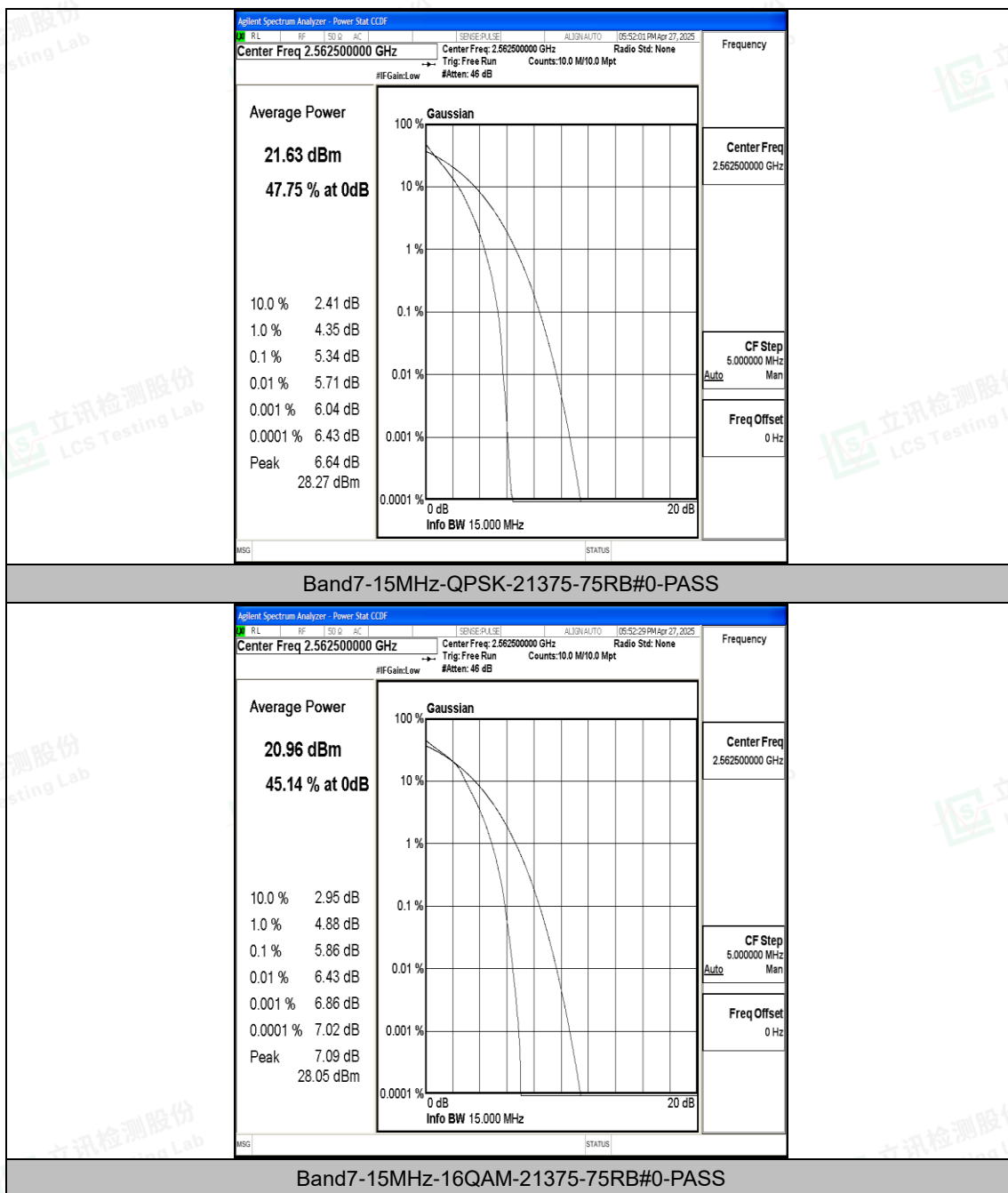


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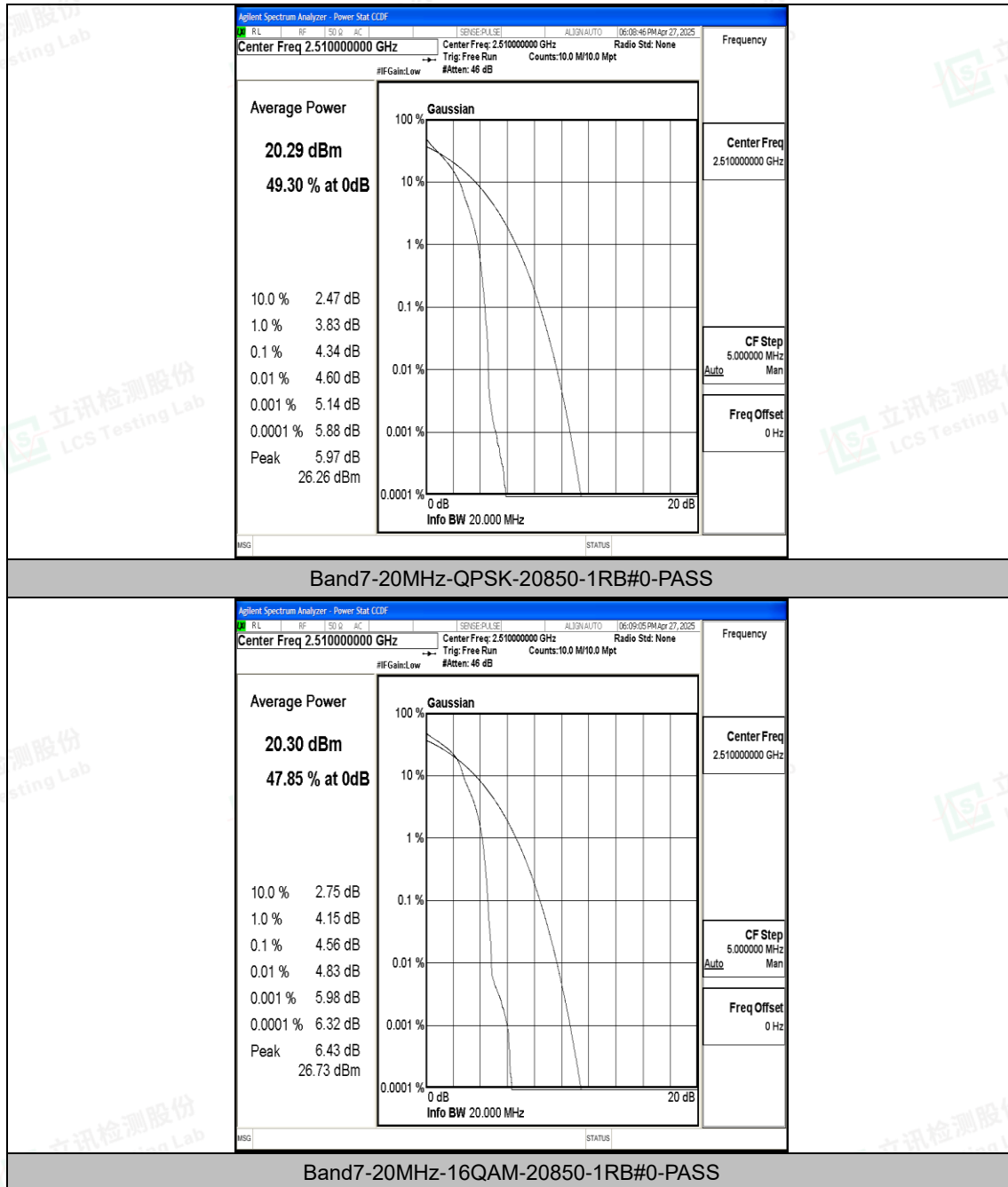


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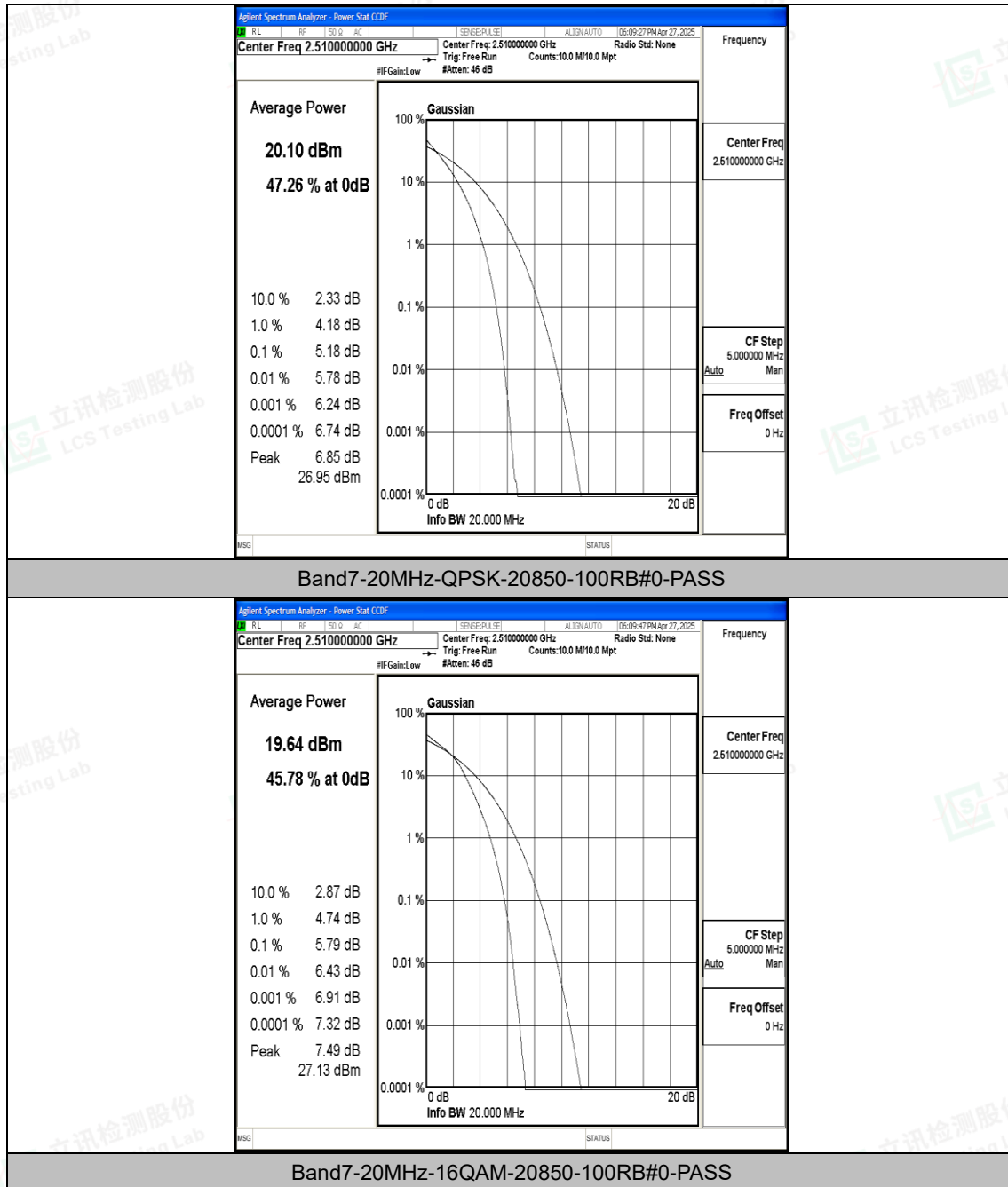


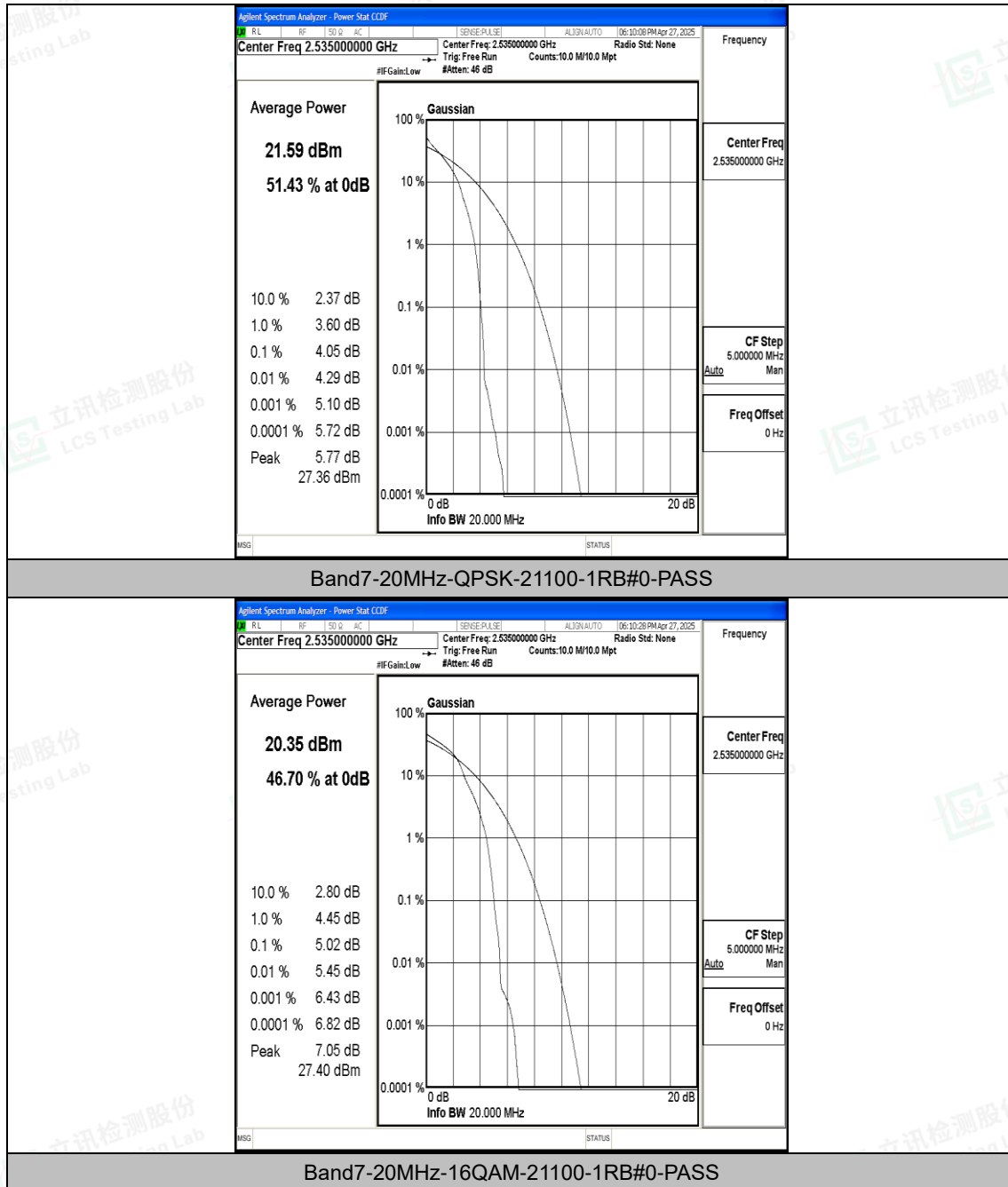
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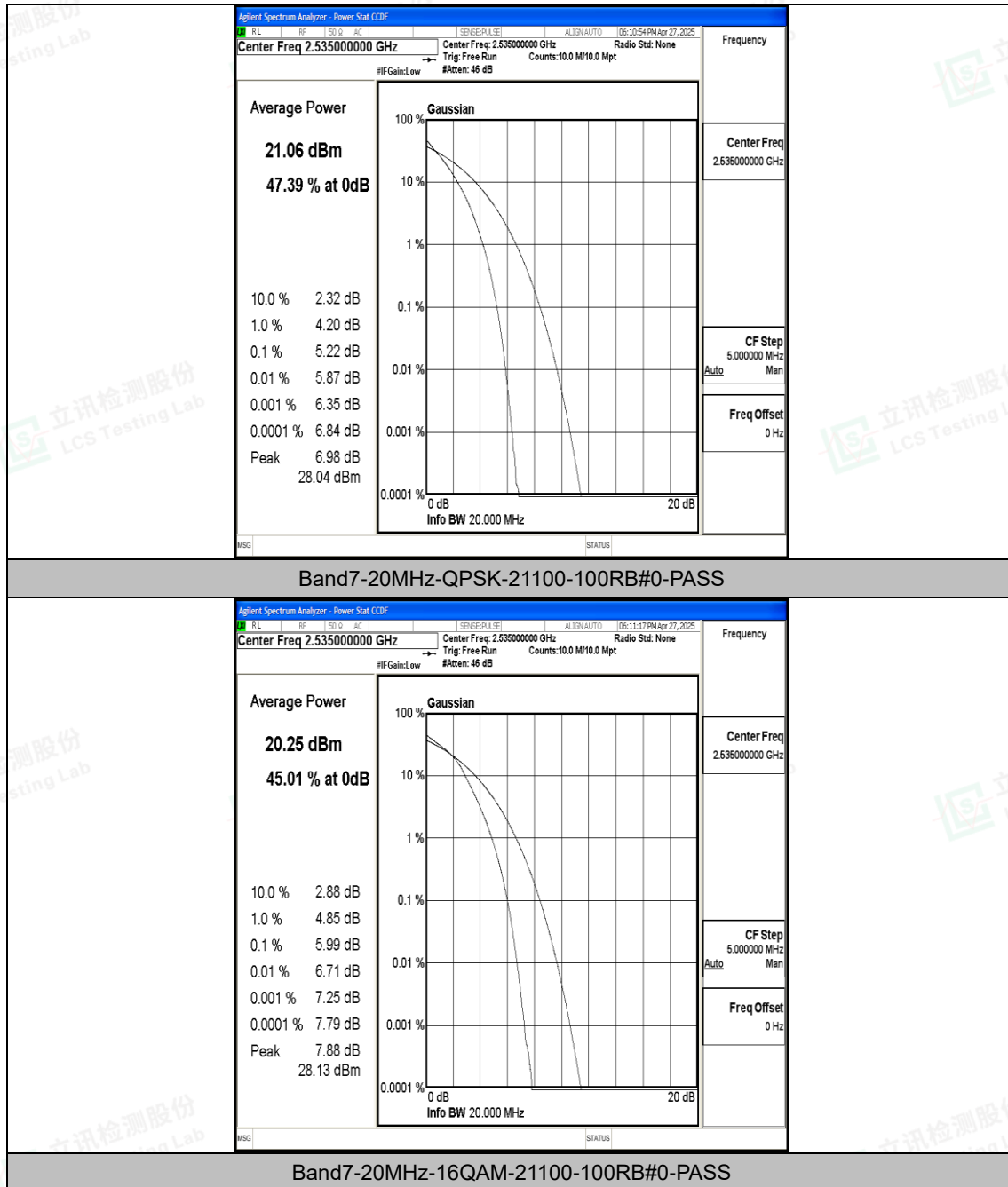


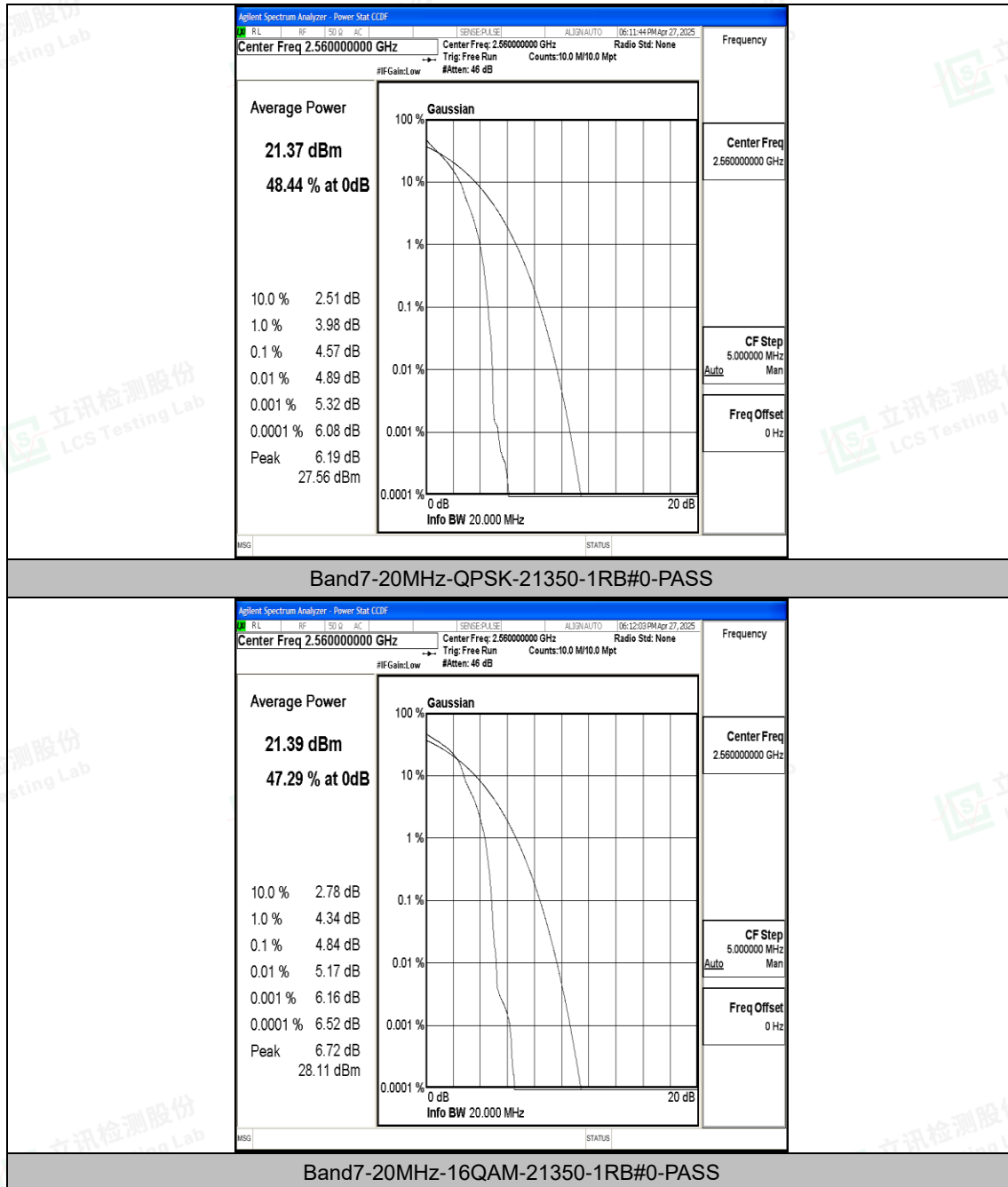
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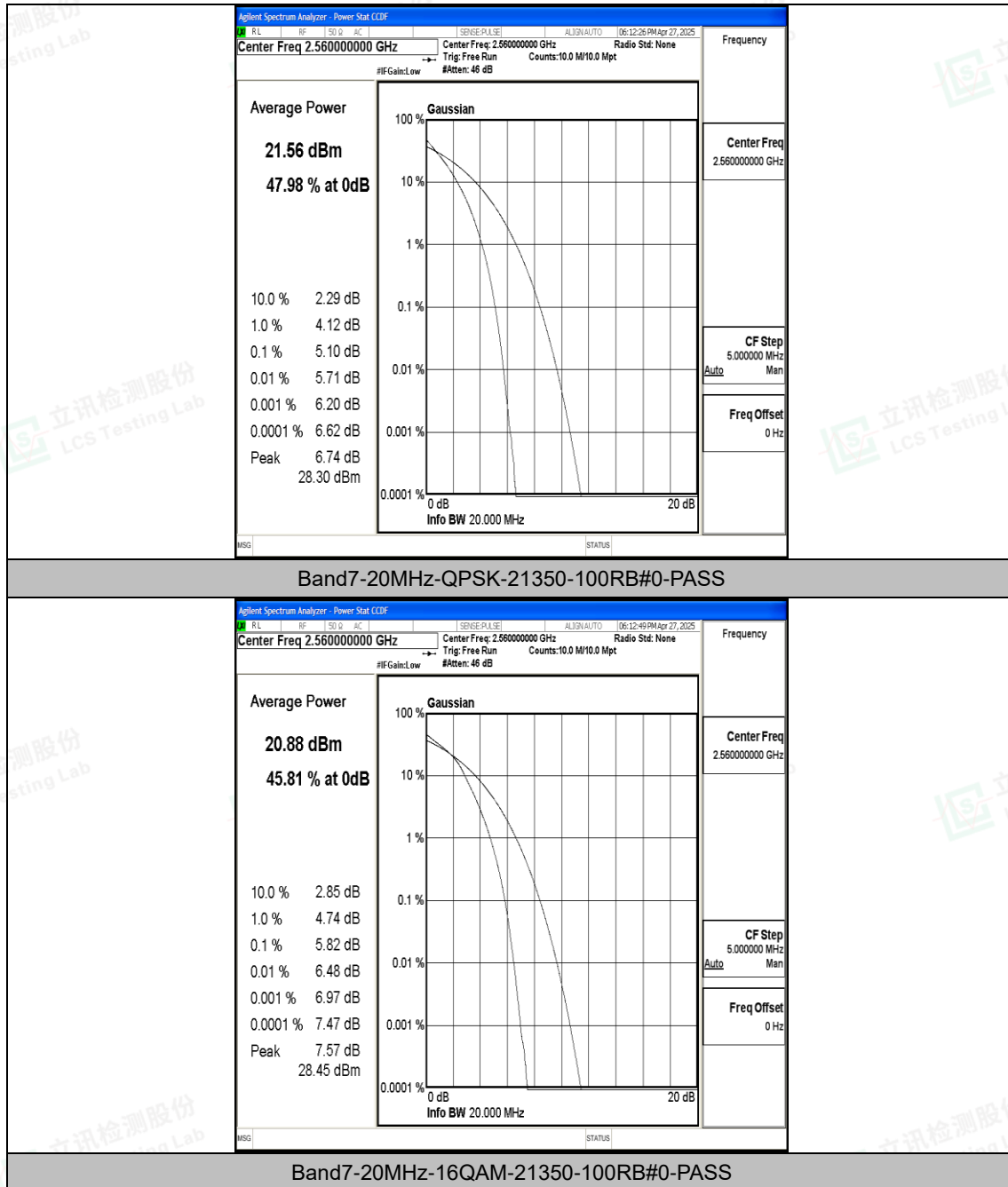


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H.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5188	5.394	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5142	5.254	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5213	5.326	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5234	5.293	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5144	5.459	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5298	5.382	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0139	10.06	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.0085	10.21	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9888	10.11	PASS
Band7	10MHz	16QAM	21100	50RB#0	9.0043	10.05	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.0350	10.24	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.0090	10.42	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.534	15.38	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.516	14.91	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.483	15.10	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.462	14.96	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.522	15.56	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.519	14.93	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.034	20.08	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.021	20.43	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.003	19.84	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.003	20.37	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.016	20.44	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.988	20.22	PASS



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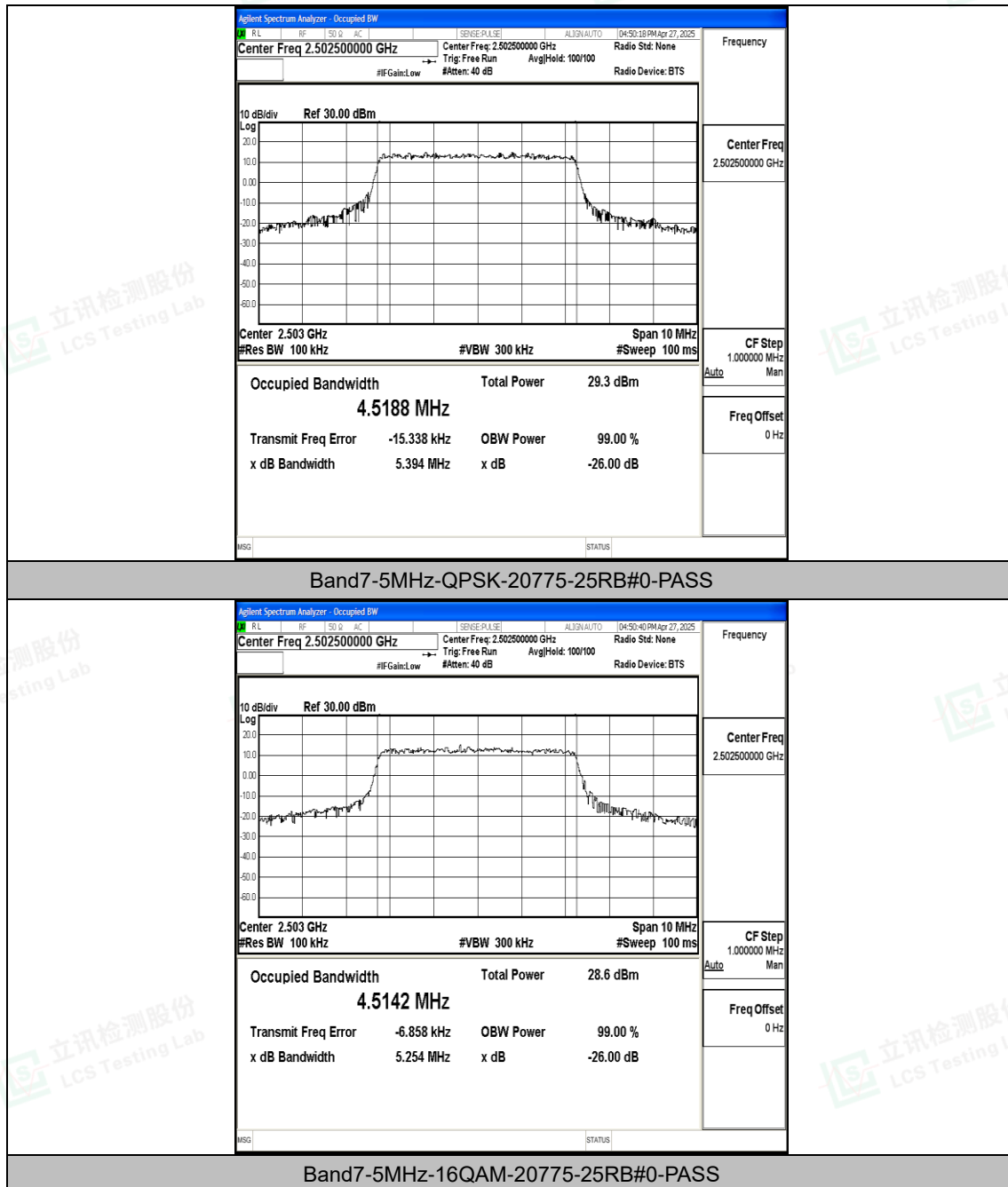
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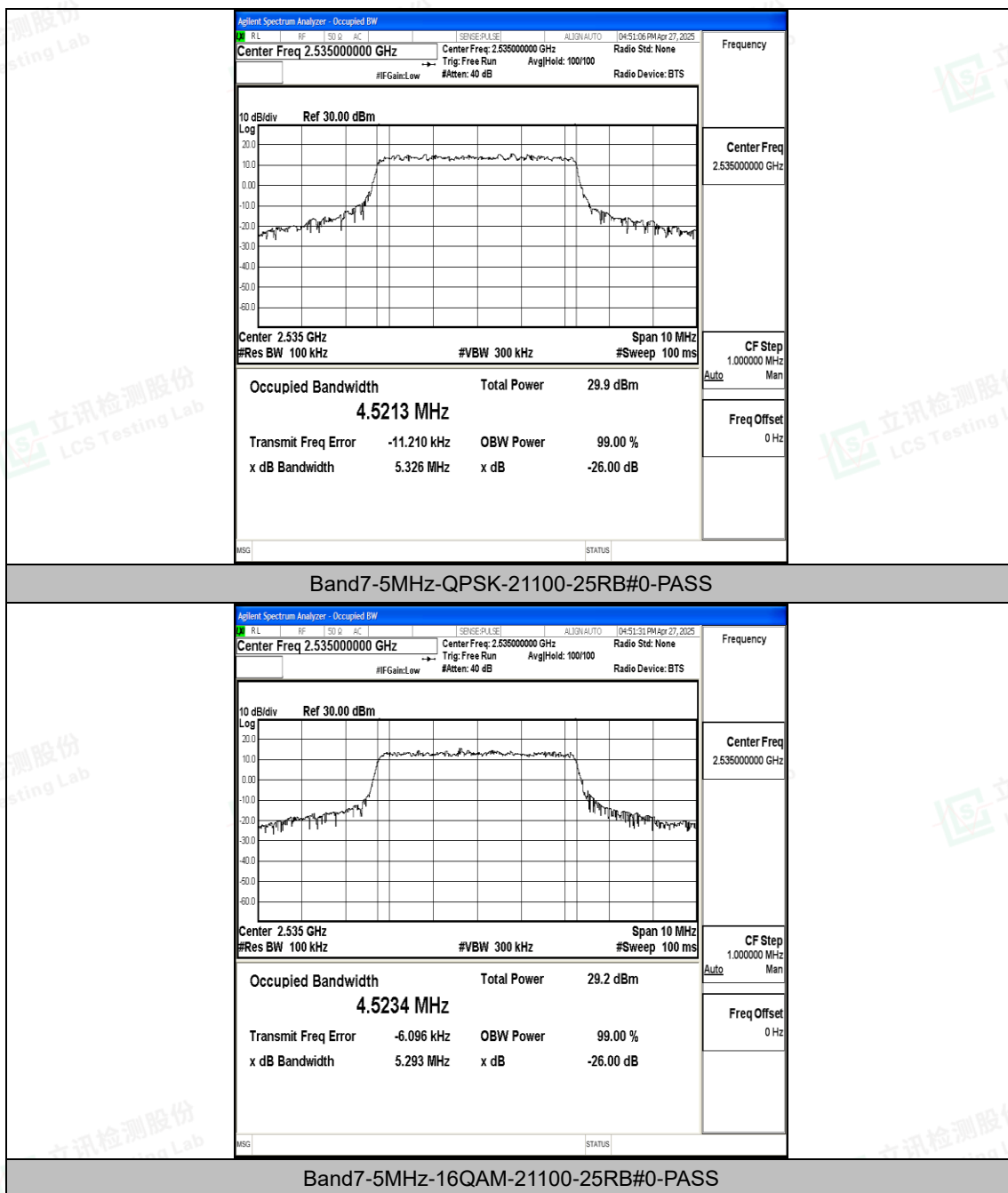
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Test Graphs



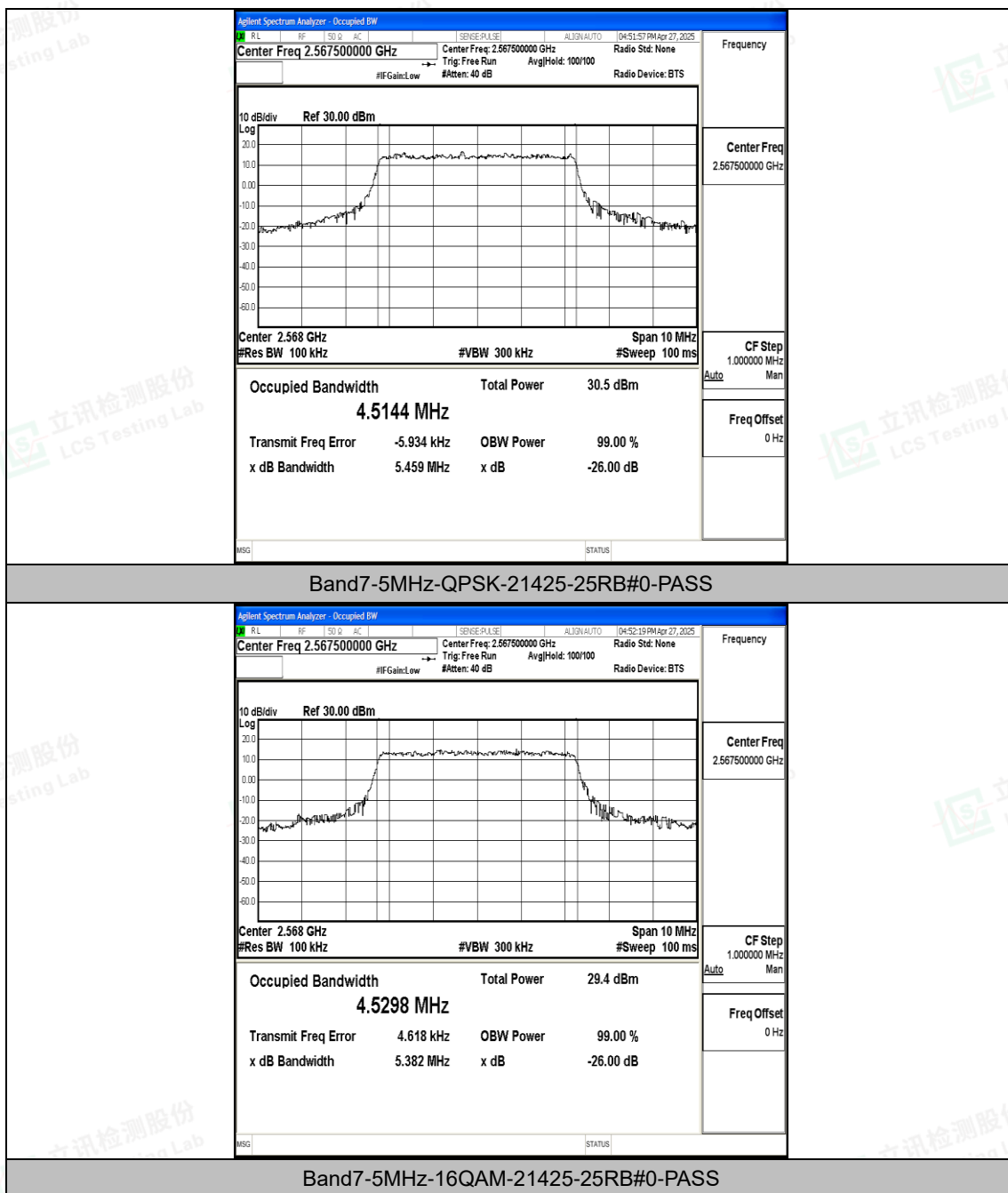


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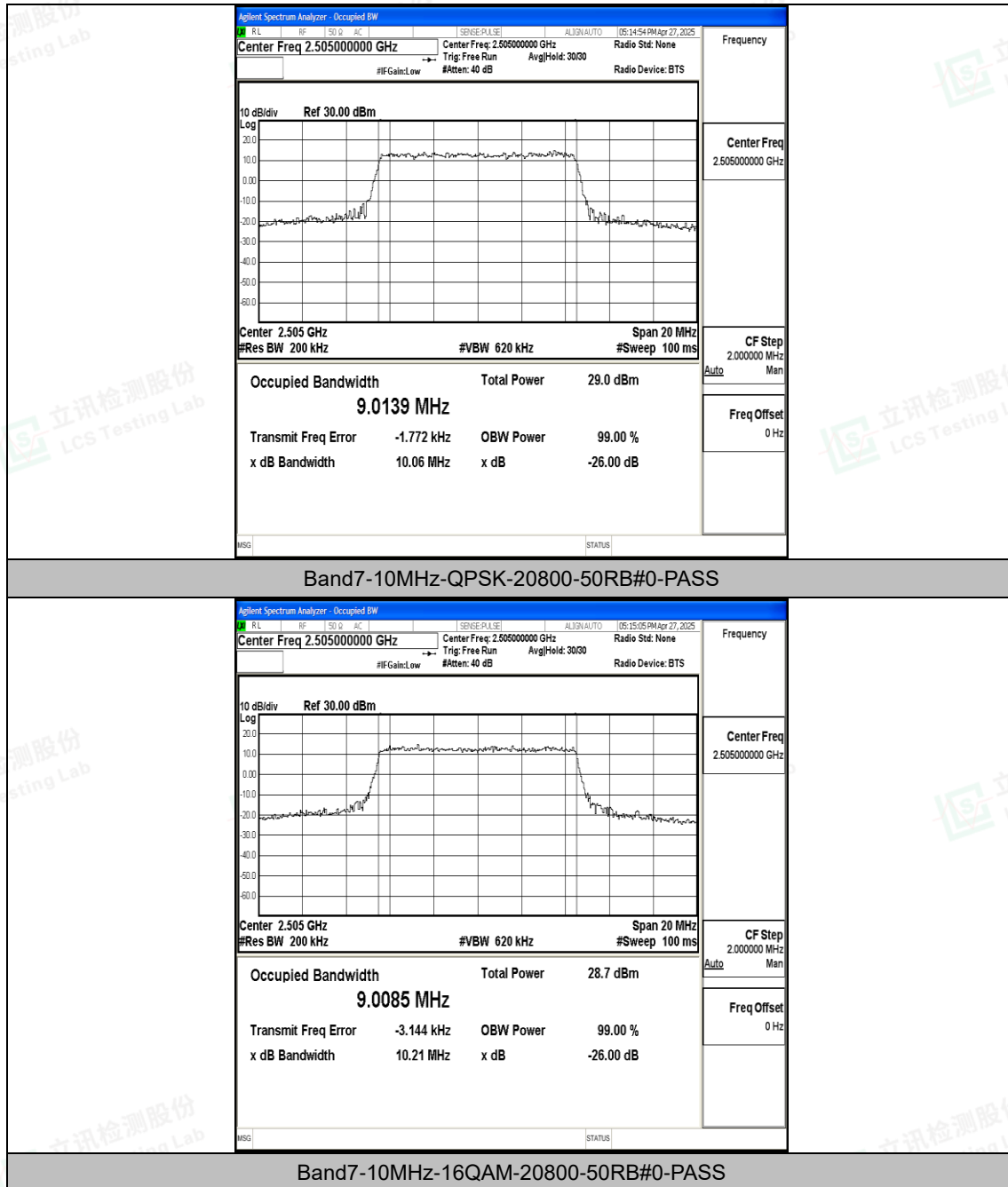


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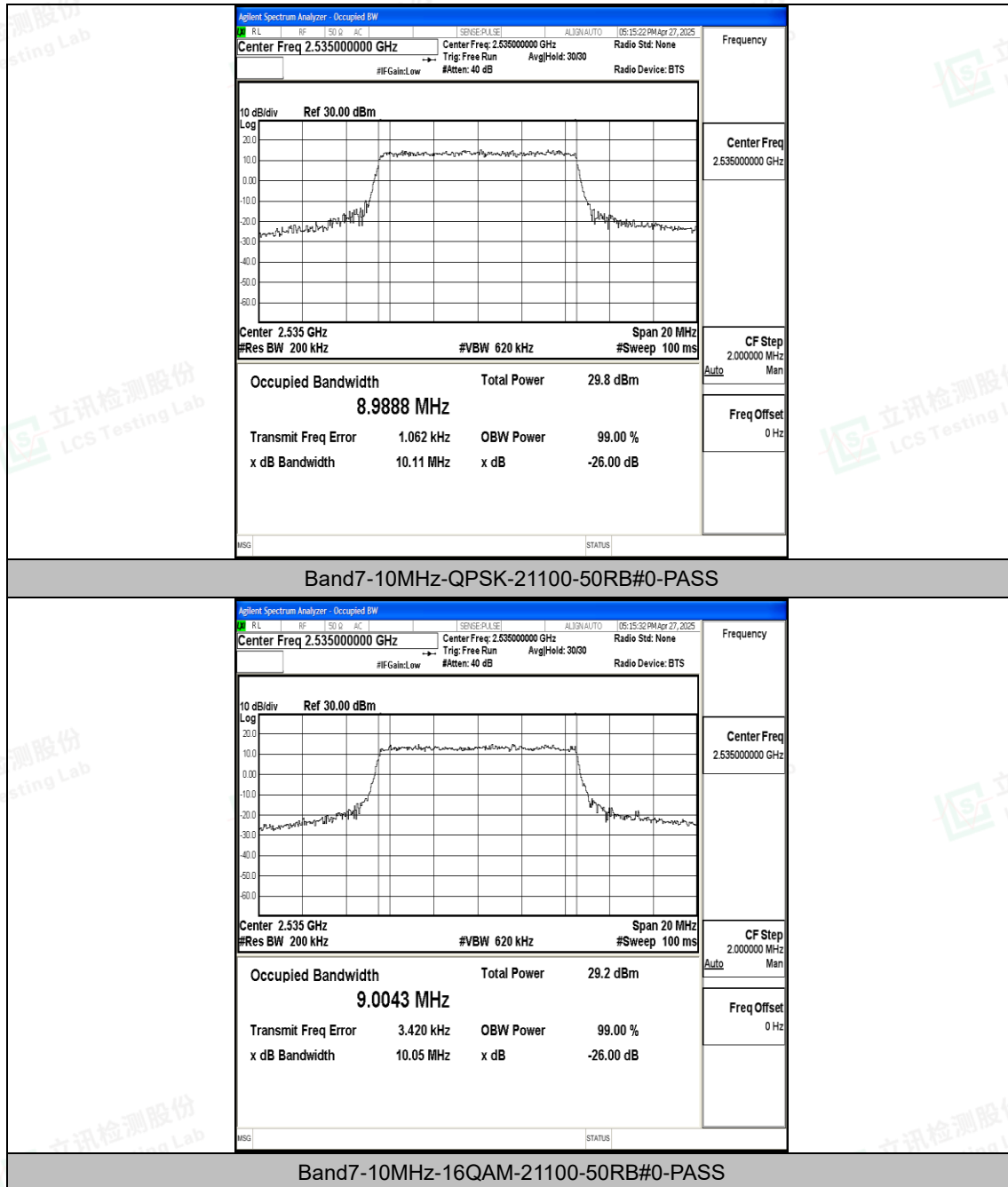


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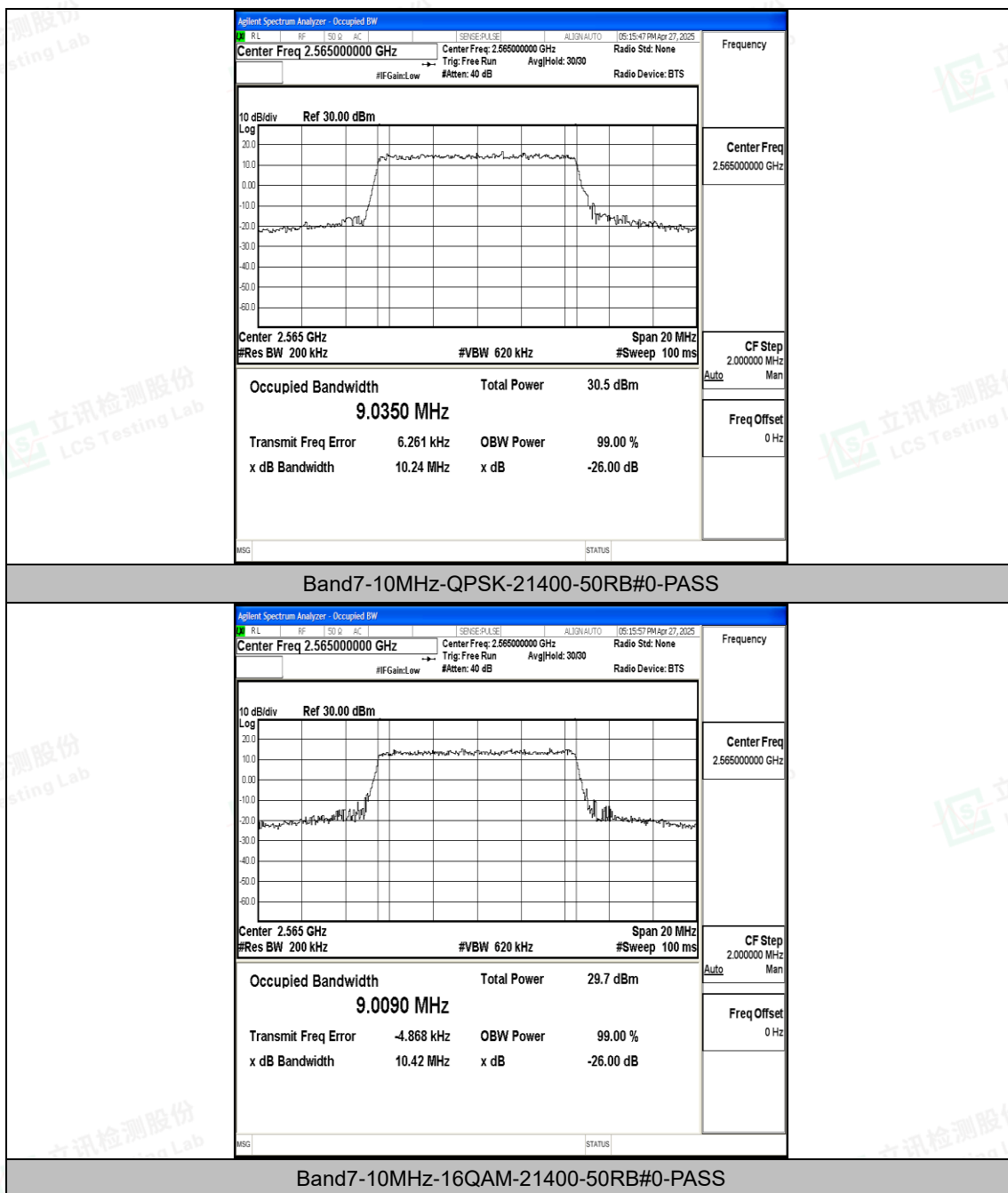


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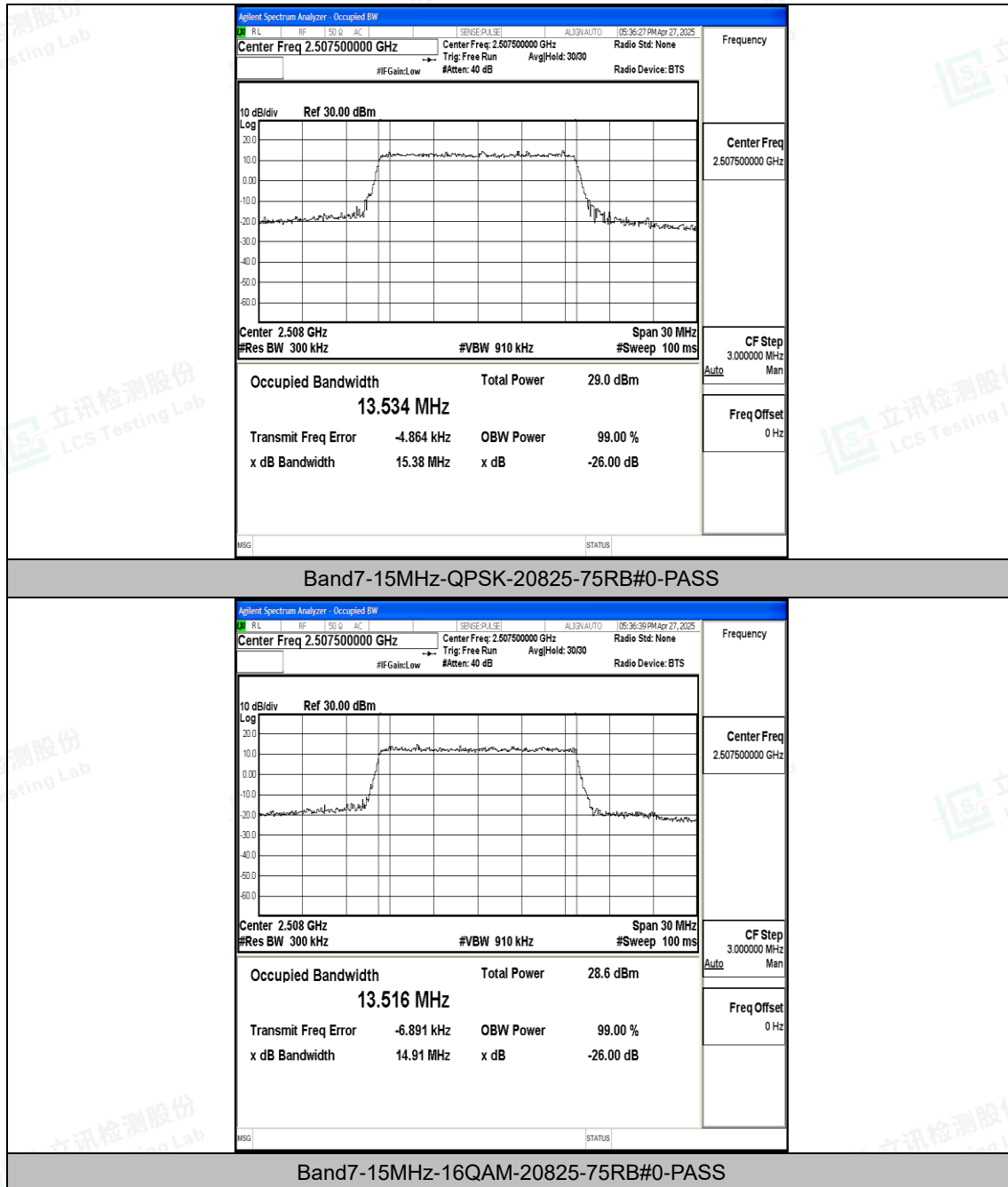


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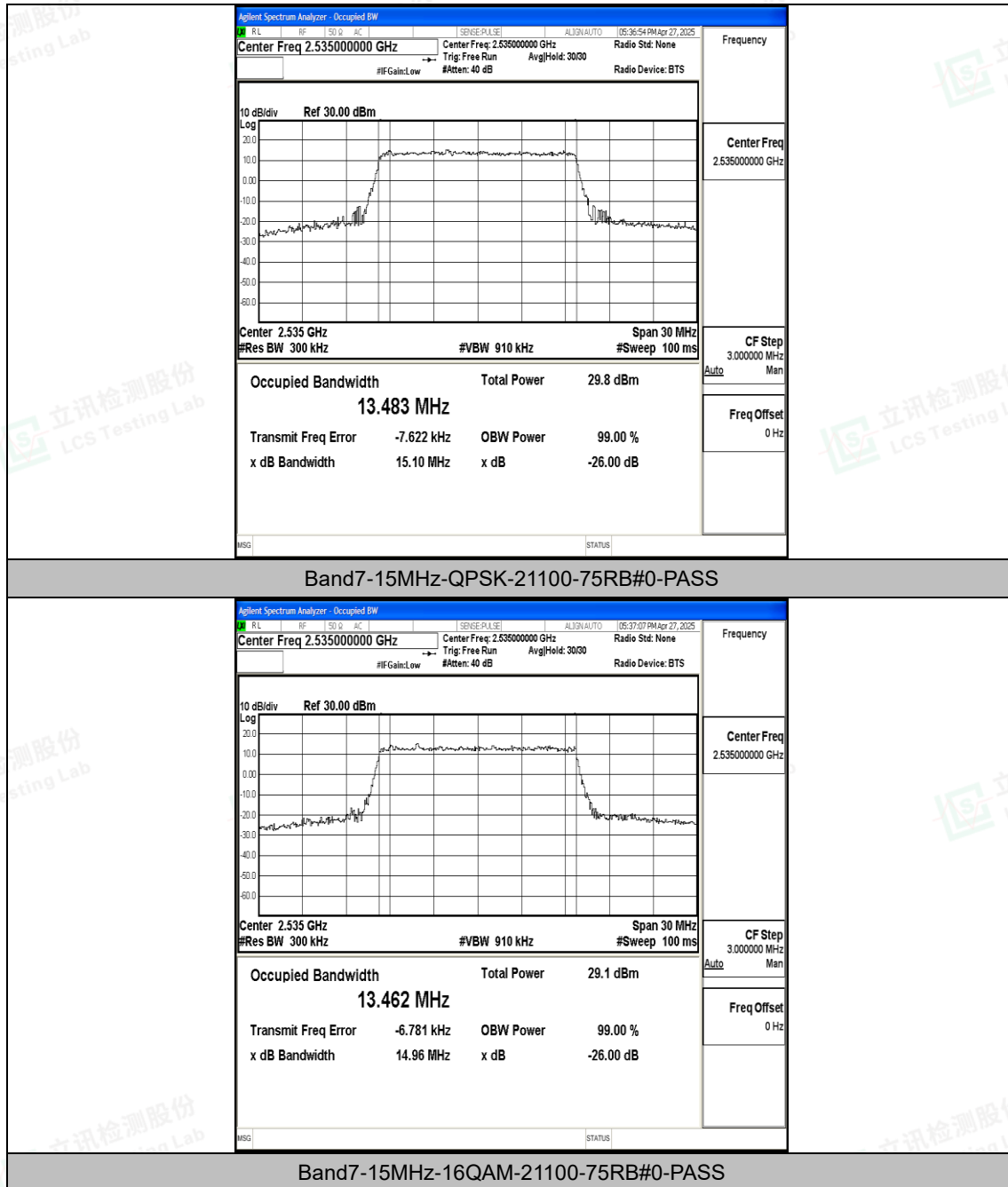


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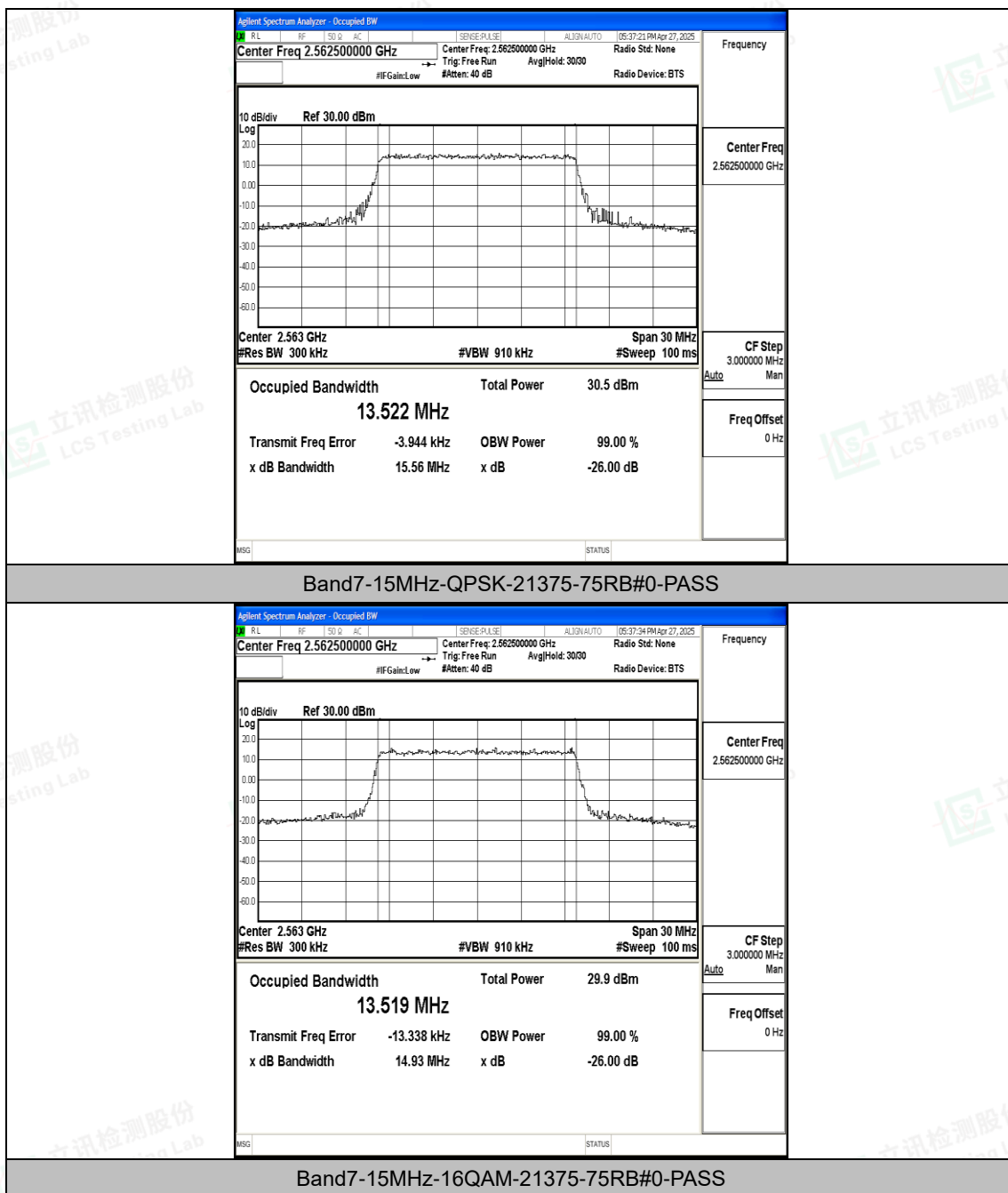


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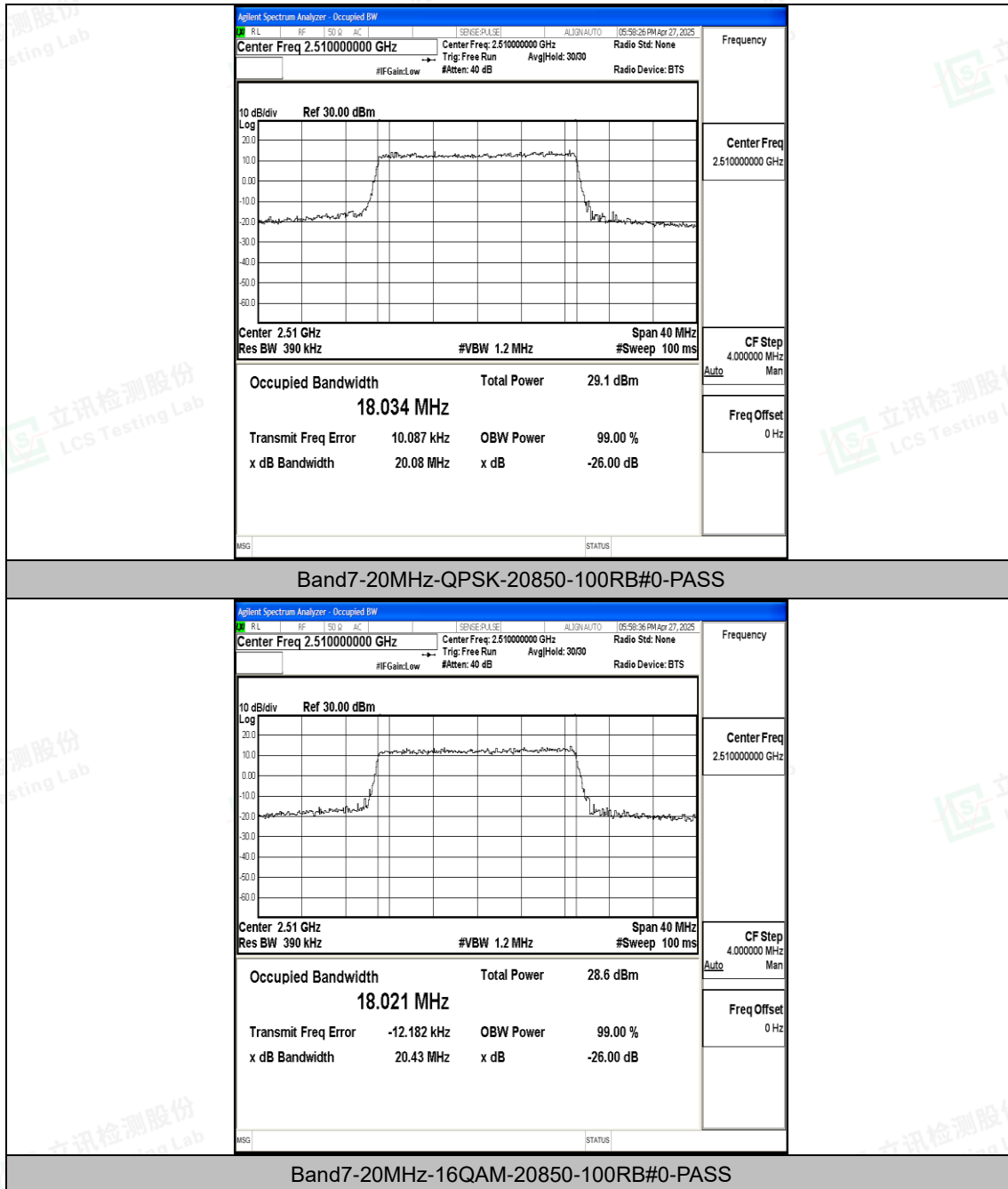


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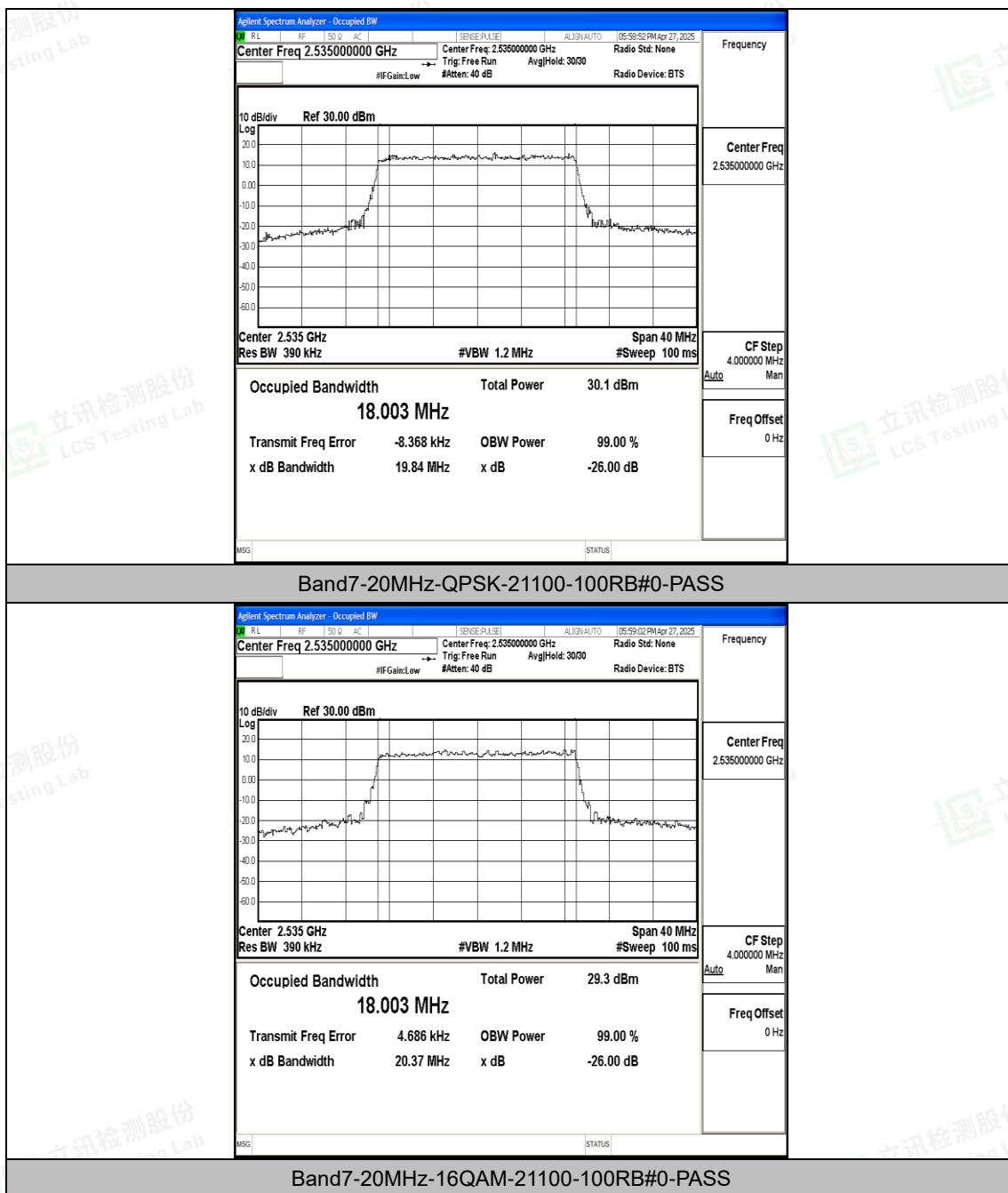


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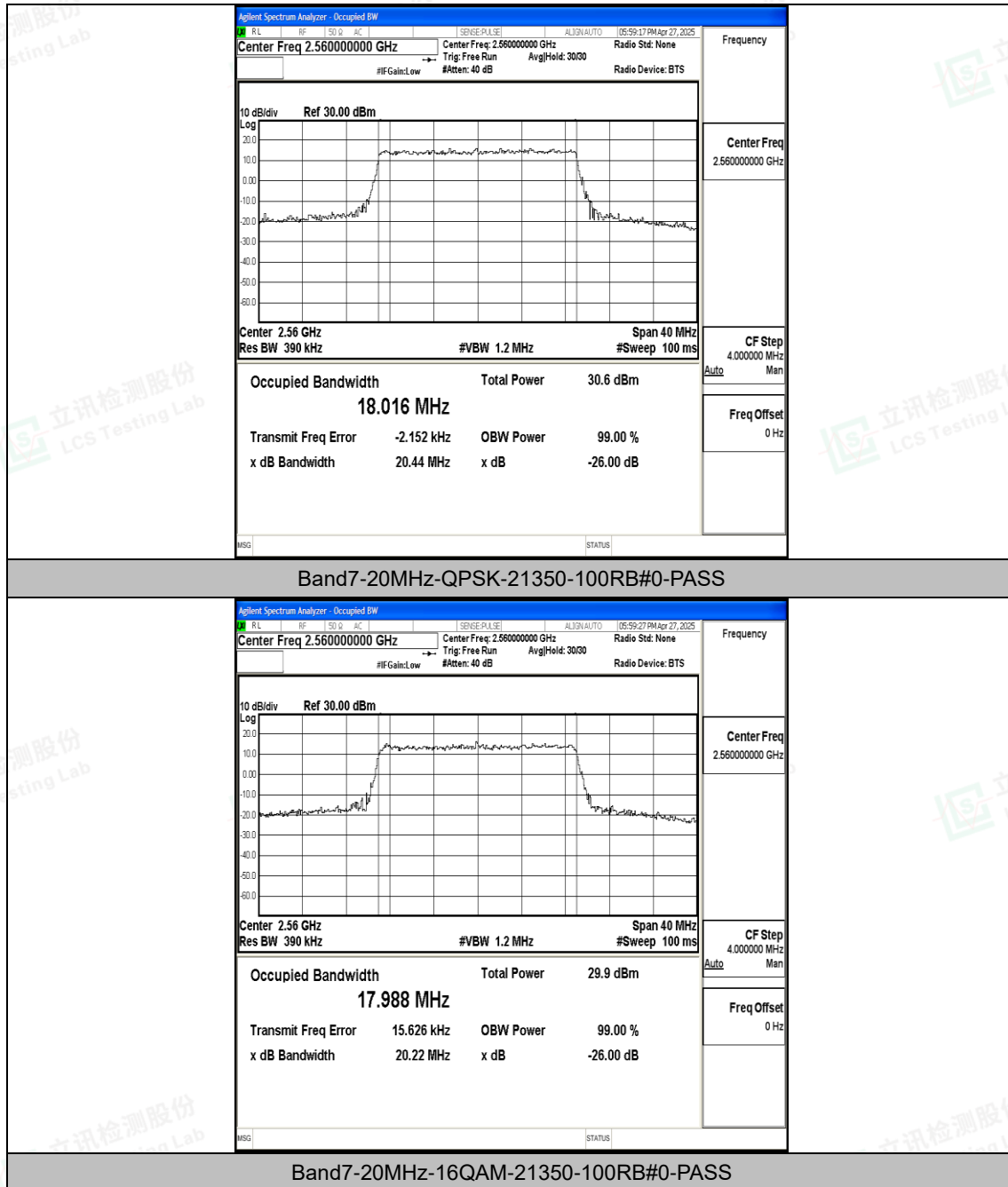


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