



Appendix I: Test Data for E-UTRA Band 38

Product Name: GNSS RECEIVER

Test Model: G7Q

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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I.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.04	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.62	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.11	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.22	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.22	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.81	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.19	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.29	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.51	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.78	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.40	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.32	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.26	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.32	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.75	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.53	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.23	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.43	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.24	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.43	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.33	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.34	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.44	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.36	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.42	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.32	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.43	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.35	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.81	PASS
Band38	5MHz	16QAM	38225	1RB#0	20.78	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.78	PASS
Band38	5MHz	16QAM	38225	1RB#12	20.88	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.94	PASS
Band38	5MHz	16QAM	38225	1RB#24	20.97	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.79	PASS



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Band38	5MHz	16QAM	38225	12RB#0	19.98	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.82	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.87	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.84	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.96	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.93	PASS
Band38	5MHz	16QAM	38225	25RB#0	19.78	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.26	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.93	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.31	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.65	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.63	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.71	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.68	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.77	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.69	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.76	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.78	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.86	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.72	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.68	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.67	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.50	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.19	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.12	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.43	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.28	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.41	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.35	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.41	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.35	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.31	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.43	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.38	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.43	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.22	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.27	PASS
Band38	10MHz	QPSK	38200	1RB#24	21.87	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.06	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.03	PASS



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Band38	10MHz	16QAM	38200	1RB#49	21.12	PASS
Band38	10MHz	QPSK	38200	25RB#0	20.83	PASS
Band38	10MHz	16QAM	38200	25RB#0	19.93	PASS
Band38	10MHz	QPSK	38200	25RB#12	20.84	PASS
Band38	10MHz	16QAM	38200	25RB#12	19.94	PASS
Band38	10MHz	QPSK	38200	25RB#25	20.77	PASS
Band38	10MHz	16QAM	38200	25RB#25	19.87	PASS
Band38	10MHz	QPSK	38200	50RB#0	20.81	PASS
Band38	10MHz	16QAM	38200	50RB#0	19.85	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.47	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.71	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.43	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.70	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.63	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.66	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.42	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.44	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.42	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.42	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.43	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.44	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.44	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.52	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.62	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.69	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.16	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.46	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.50	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.50	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.36	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.36	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.35	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.36	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.36	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.36	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.37	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.44	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.23	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.64	PASS
Band38	15MHz	QPSK	38175	1RB#38	21.87	PASS



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Band38	15MHz	16QAM	38175	1RB#38	21.15	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.12	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.29	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.00	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.00	PASS
Band38	15MHz	QPSK	38175	38RB#18	21.00	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.00	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.00	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.98	PASS
Band38	15MHz	QPSK	38175	75RB#0	20.98	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.17	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.57	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.65	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.50	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.75	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.65	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.71	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.56	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.73	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.58	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.73	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.58	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.65	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.55	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.59	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.38	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.31	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.52	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.42	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.24	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.15	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.45	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.54	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.46	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.65	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.63	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.52	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.45	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.42	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.54	PASS



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Band38	20MHz	16QAM	38150	1RB#0	21.66	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.10	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.11	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.04	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.12	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.15	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.22	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.15	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.22	PASS
Band38	20MHz	QPSK	38150	50RB#50	20.78	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.01	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.03	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.10	PASS



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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.41	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	8.41	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	8.40	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	8.41	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.40	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	8.40	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	8.40	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	8.40	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.39	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.41	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	8.40	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	8.41	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.40	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	8.40	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.41	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.41	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.42	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	8.41	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.41	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.40	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.42	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.41	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.42	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.41	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.40	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	8.39	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	8.41	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	8.40	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.42	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	8.41	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	8.40	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	8.42	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.41	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	8.41	13	PASS



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Band38	15MHz	QPSK	38175	75RB#0	8.40	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	8.41	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.40	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	8.40	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	8.41	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.40	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.40	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	8.40	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.41	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.40	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.38	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	8.40	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.39	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.39	13	PASS



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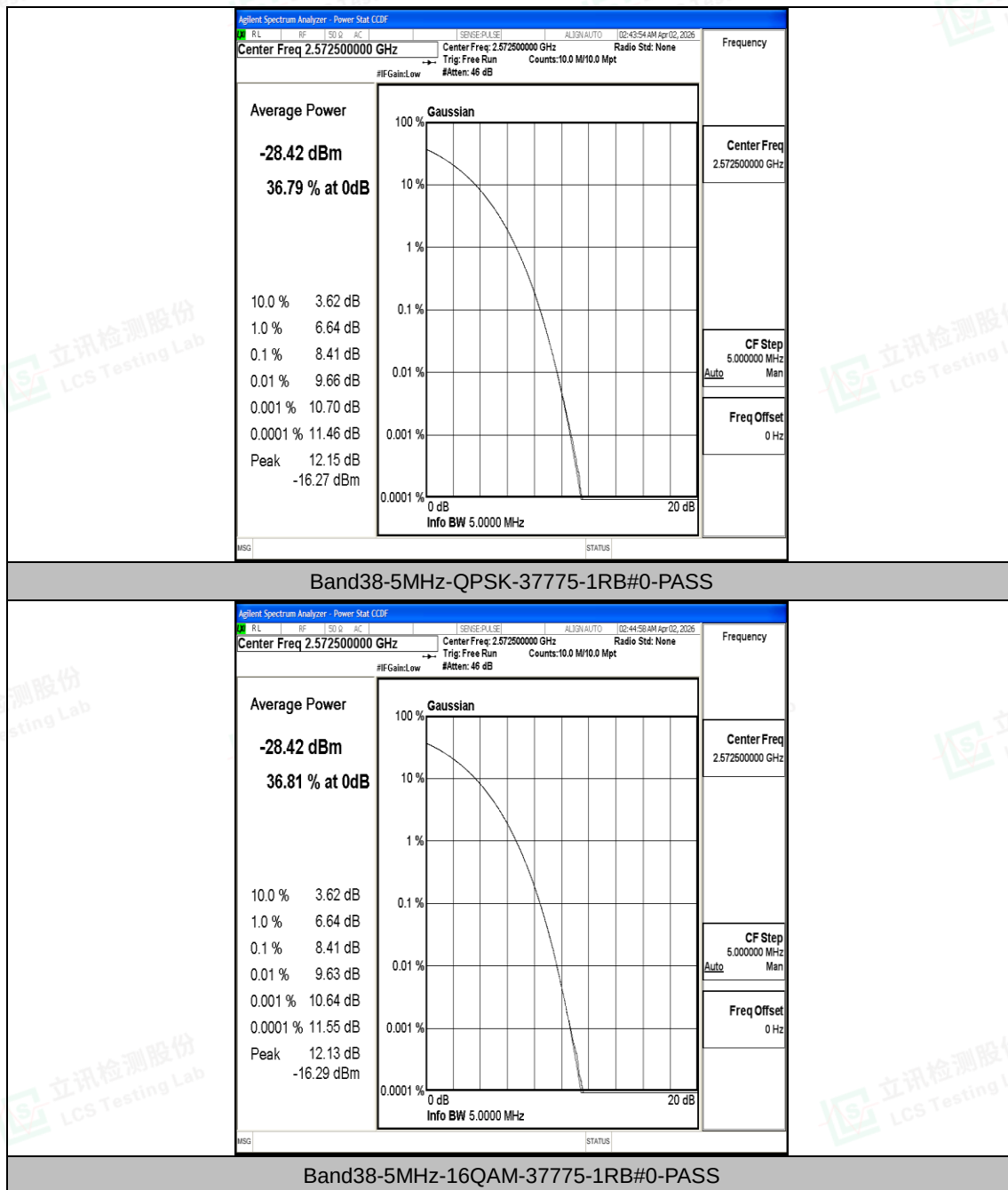
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Test Graphs

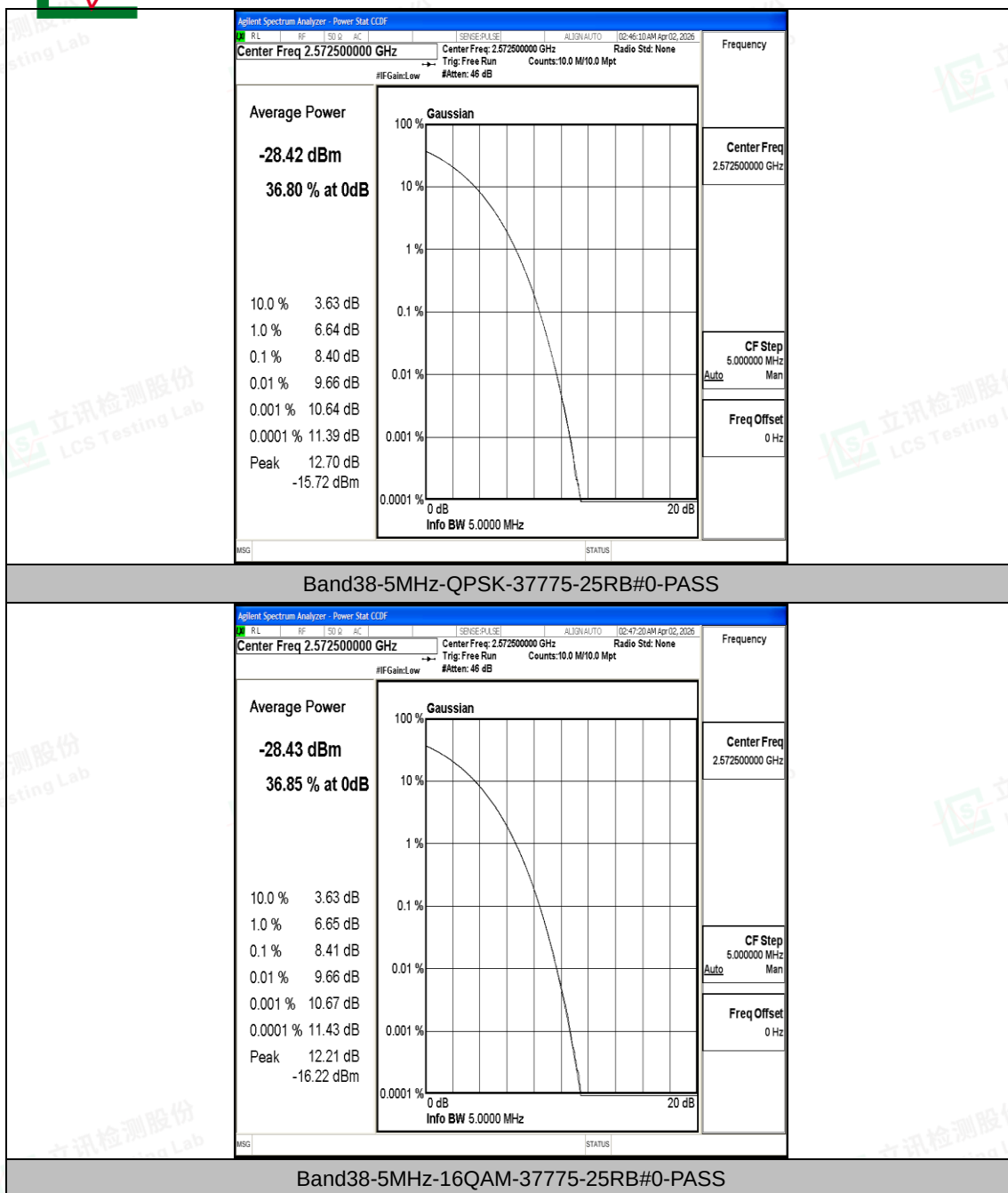


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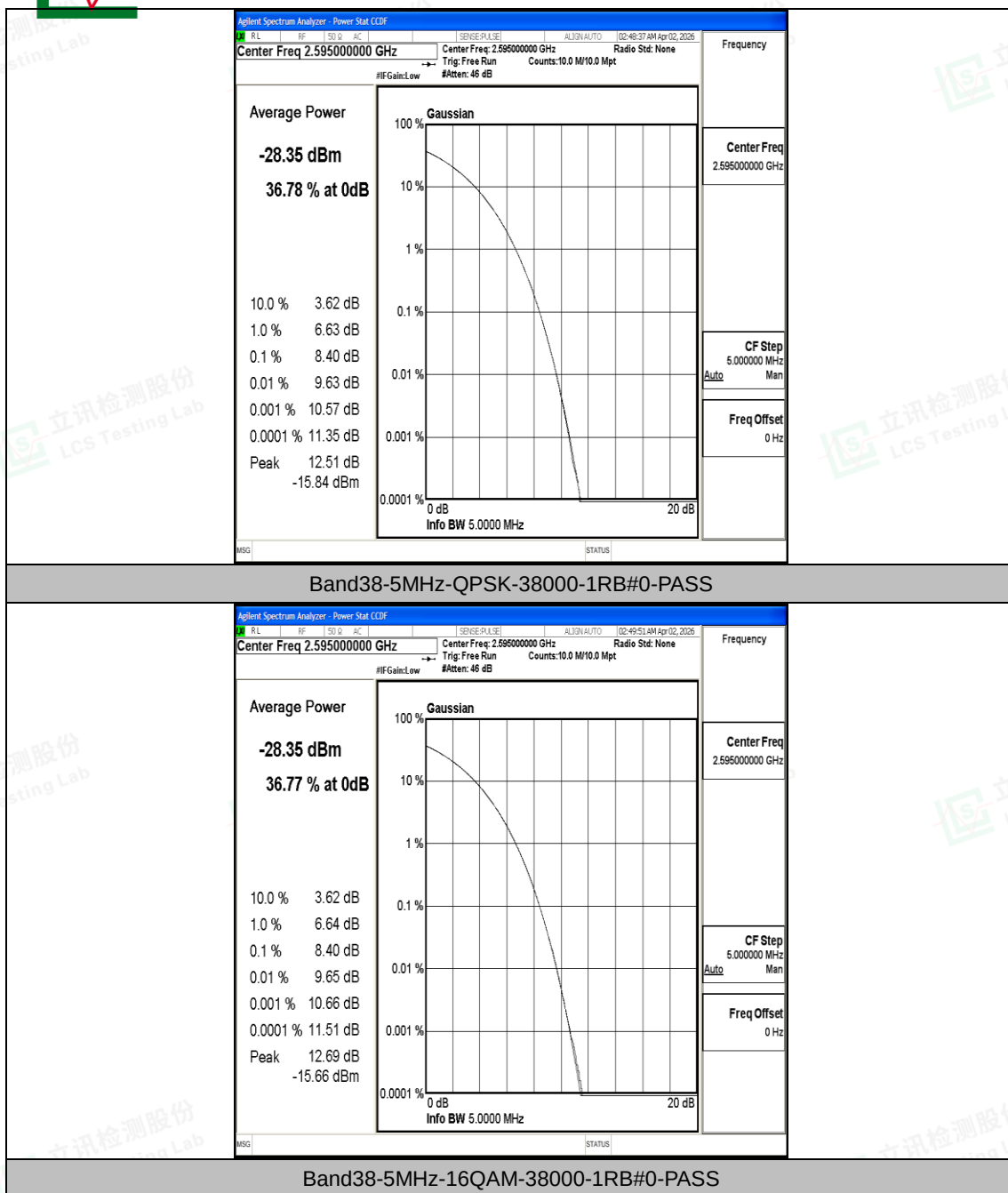


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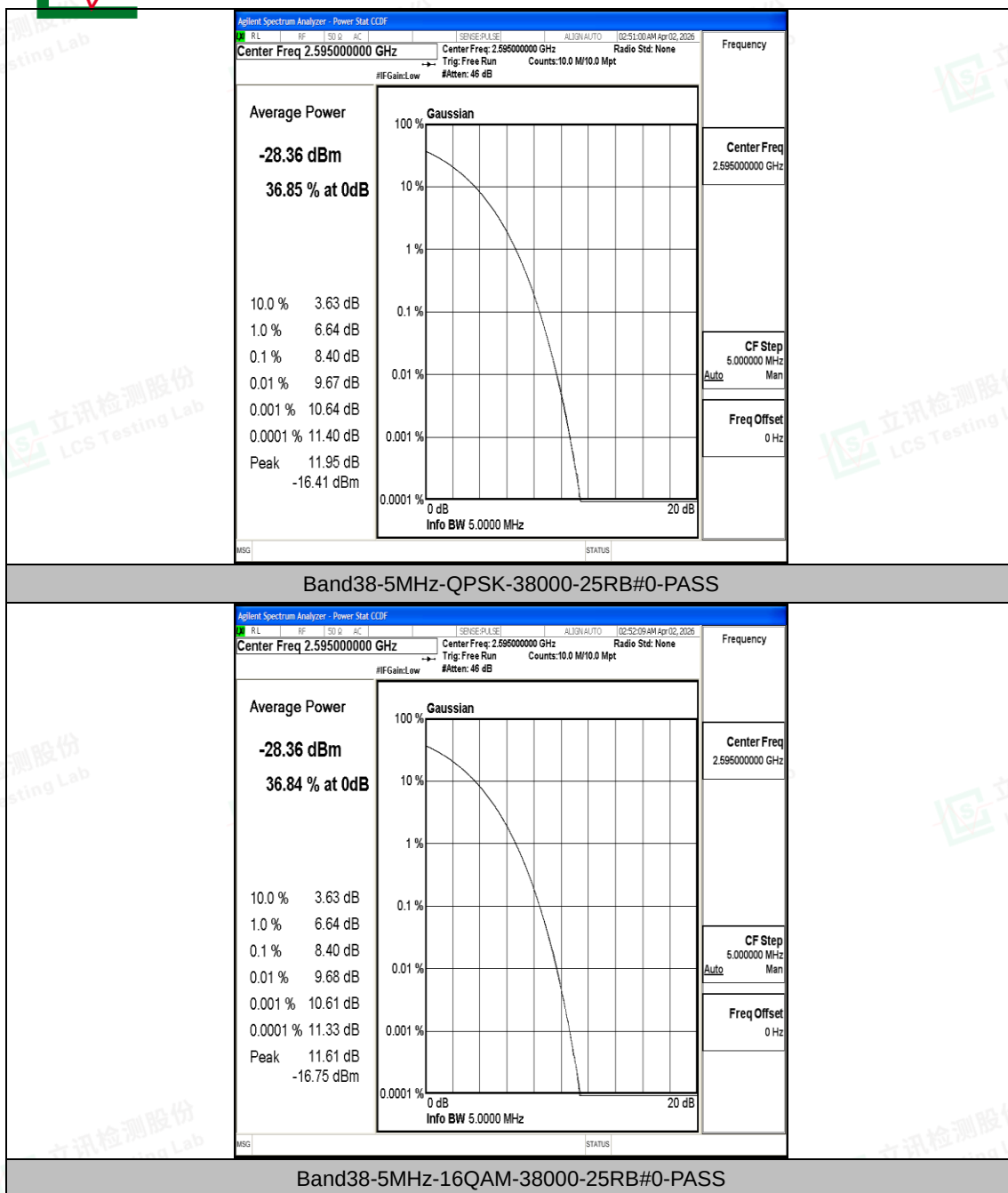


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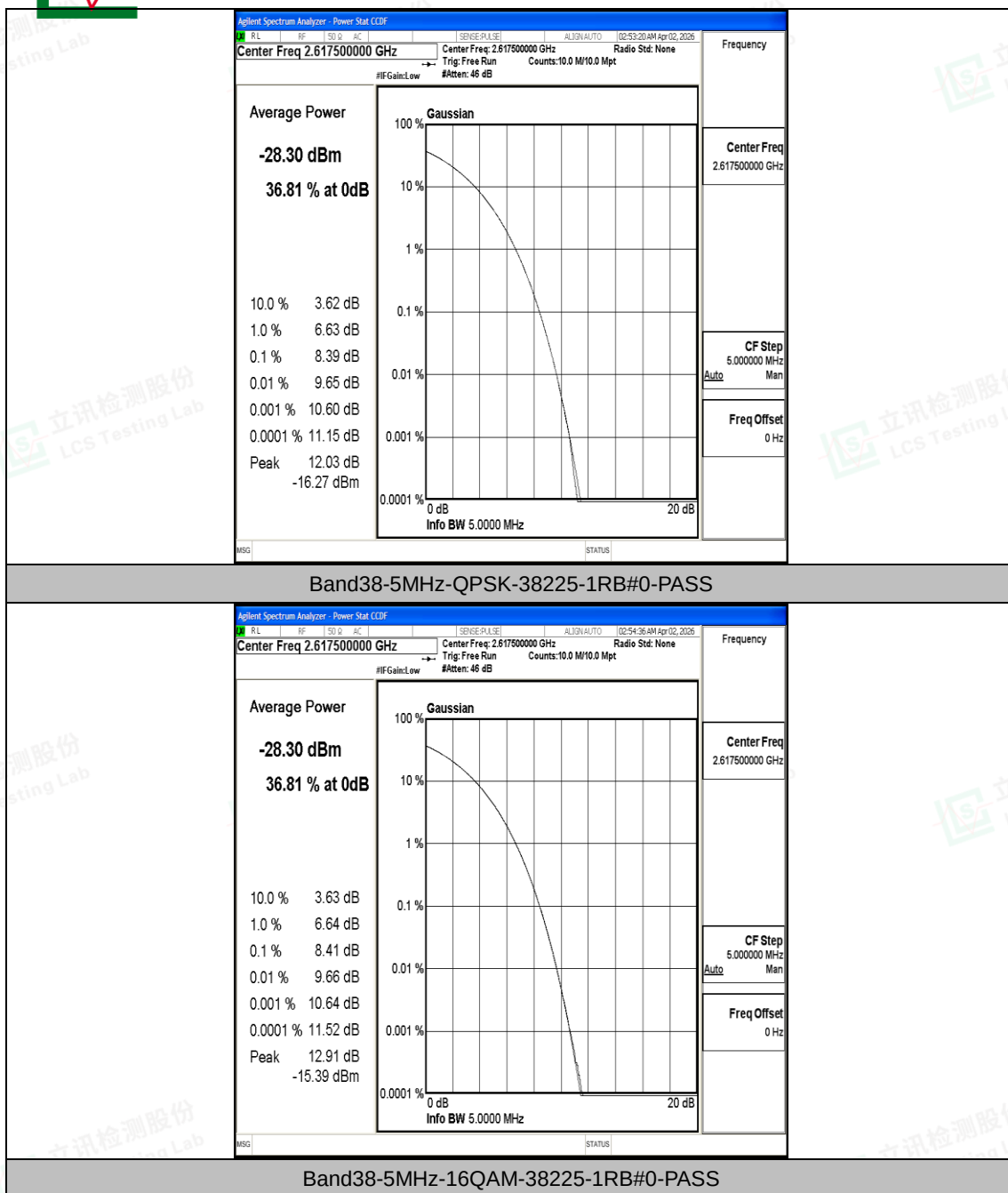


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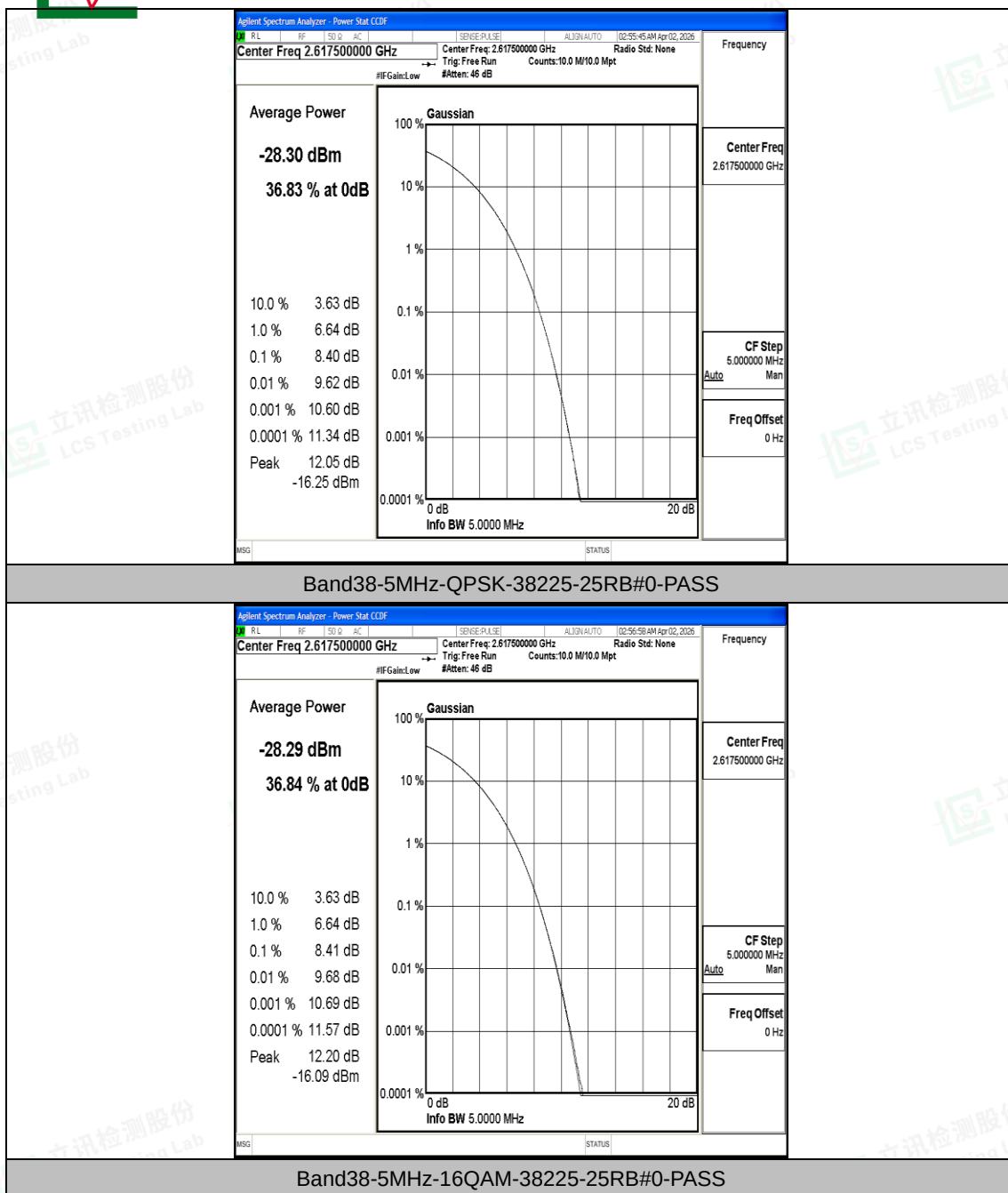


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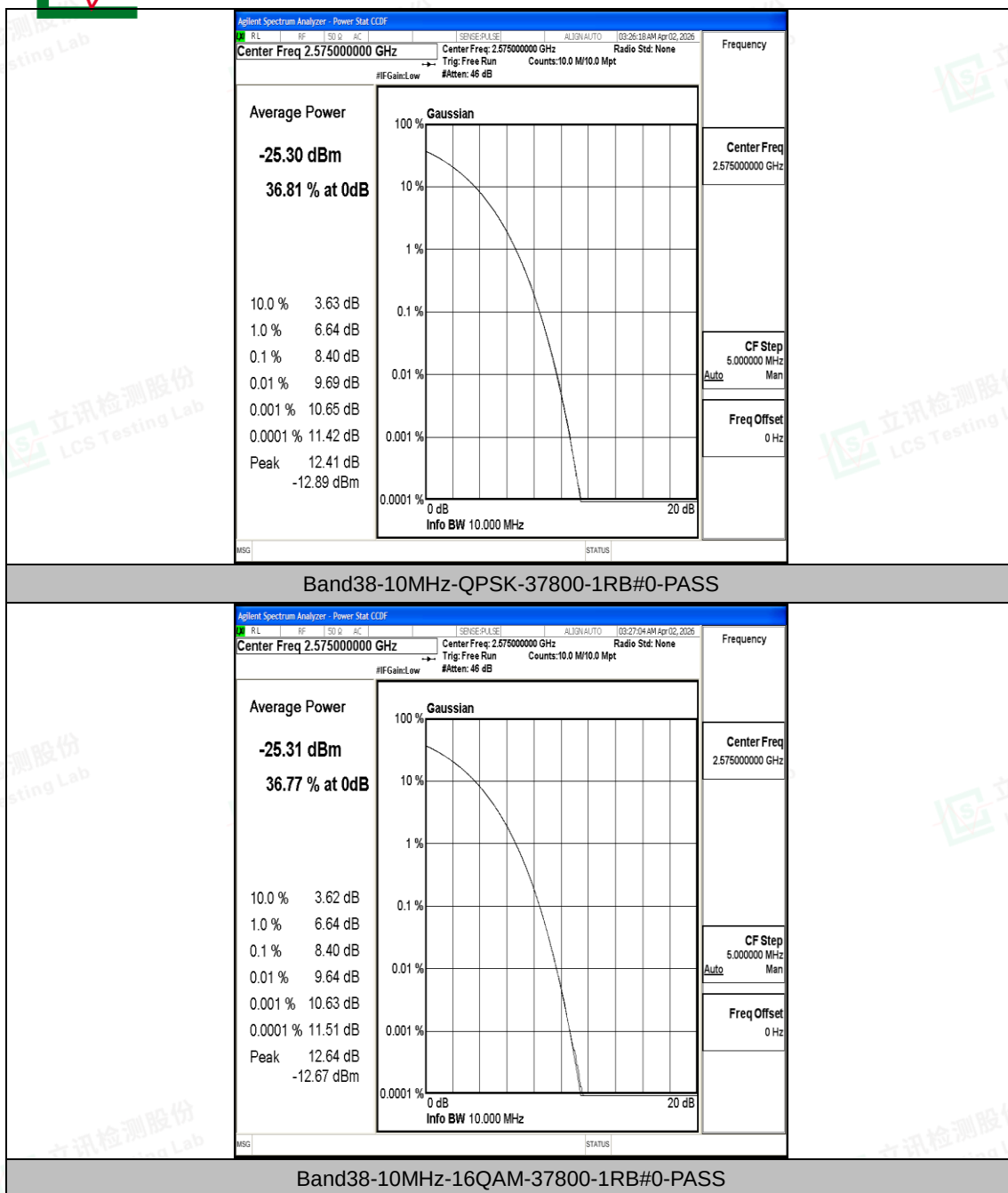


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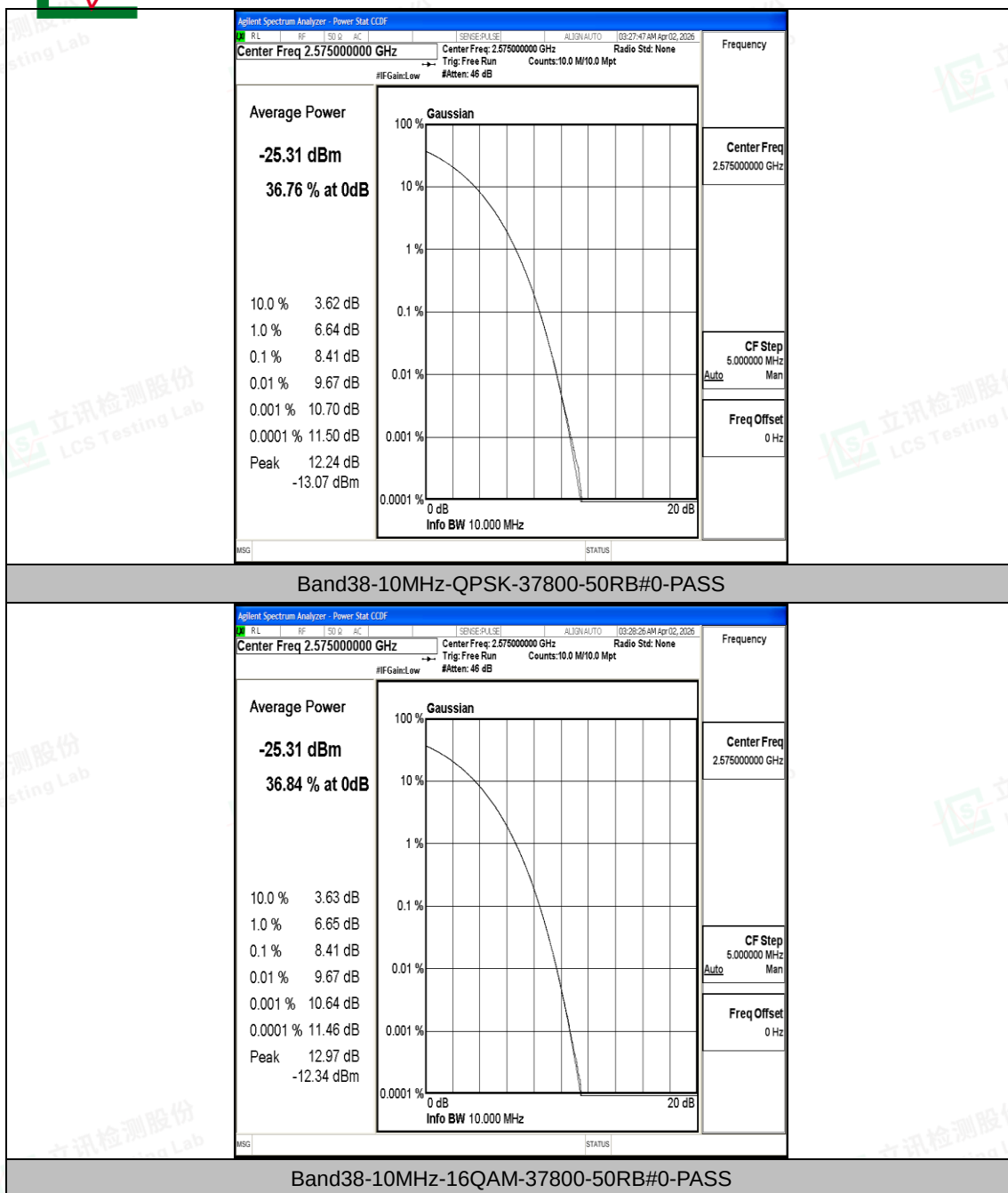


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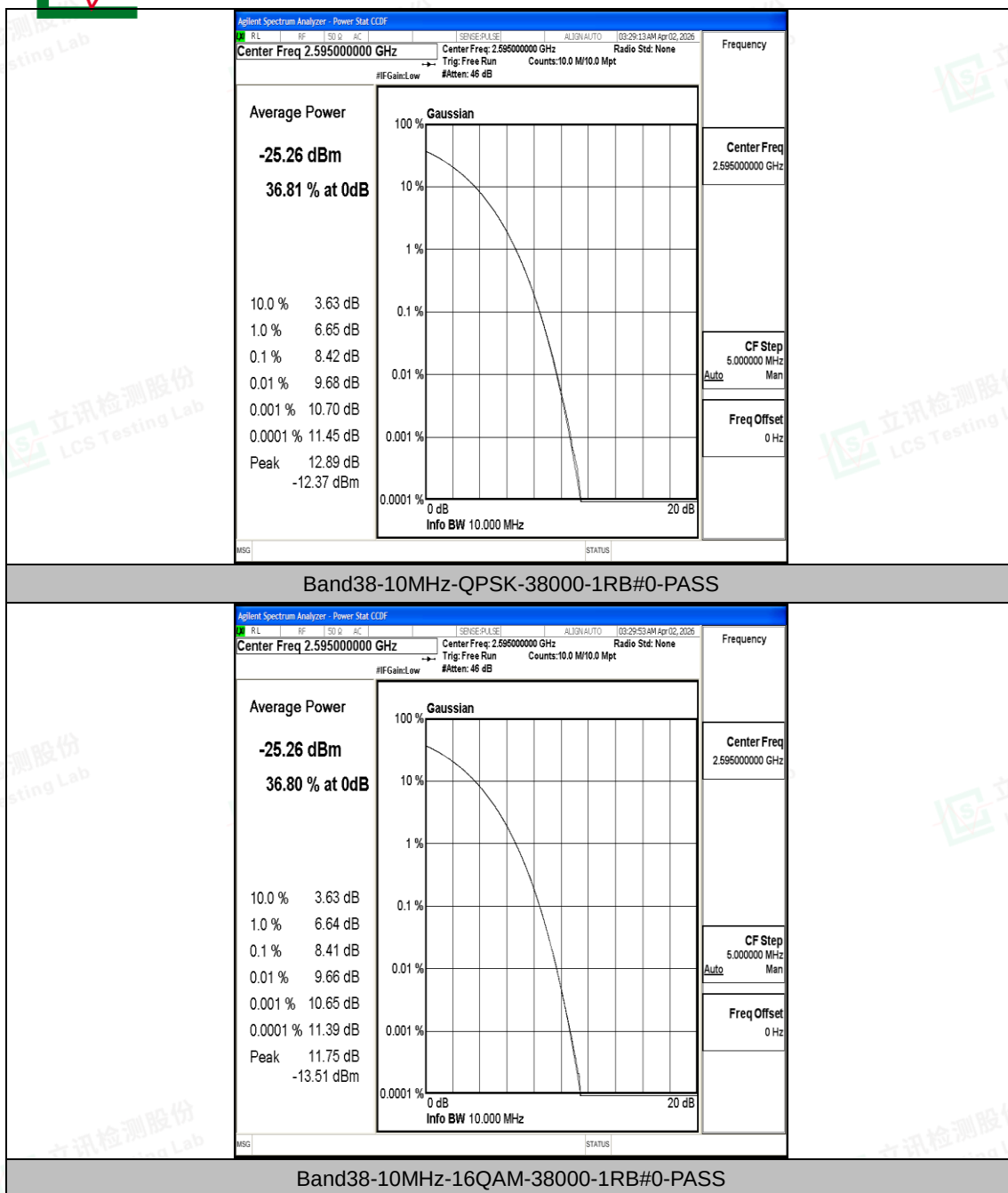


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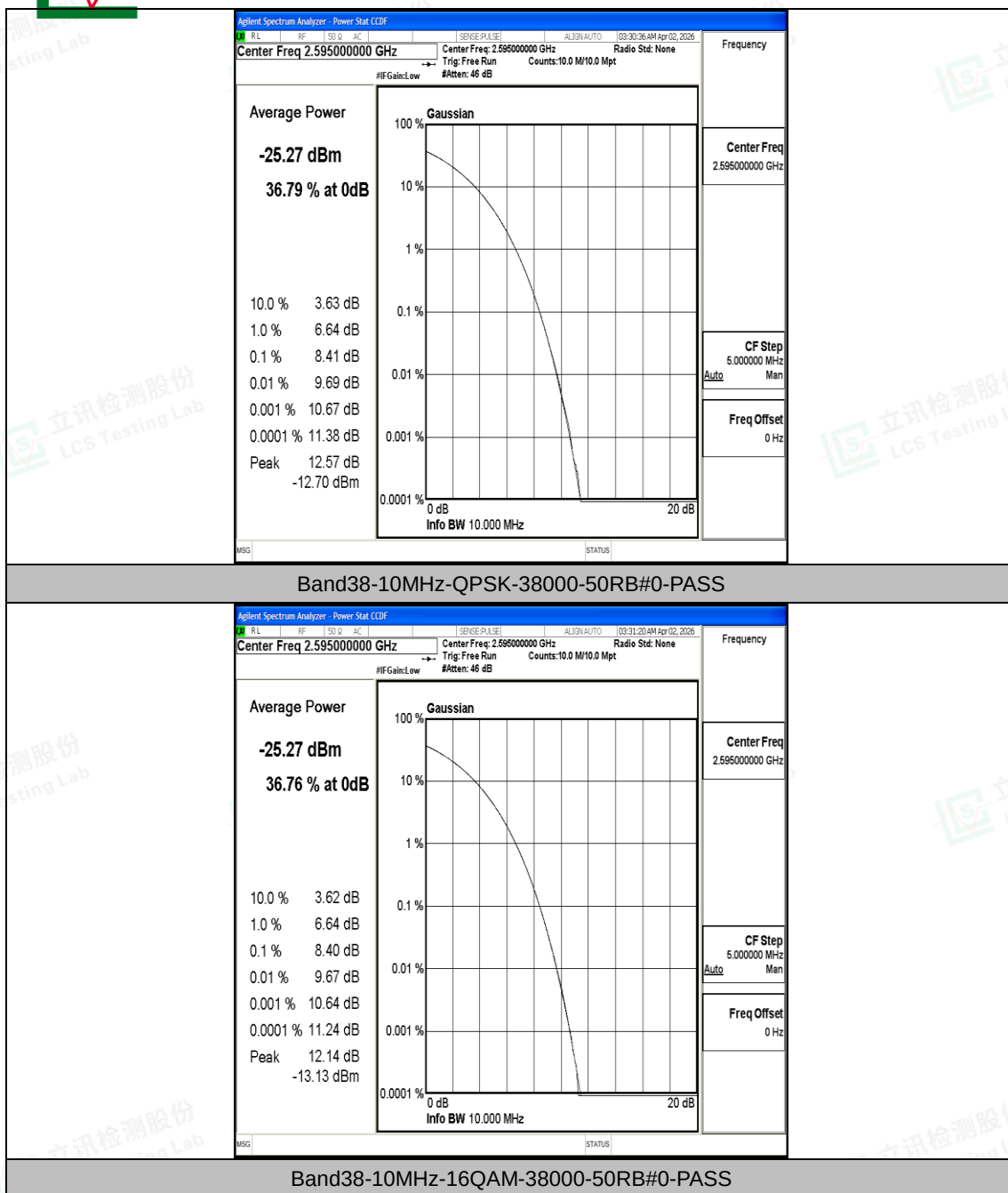


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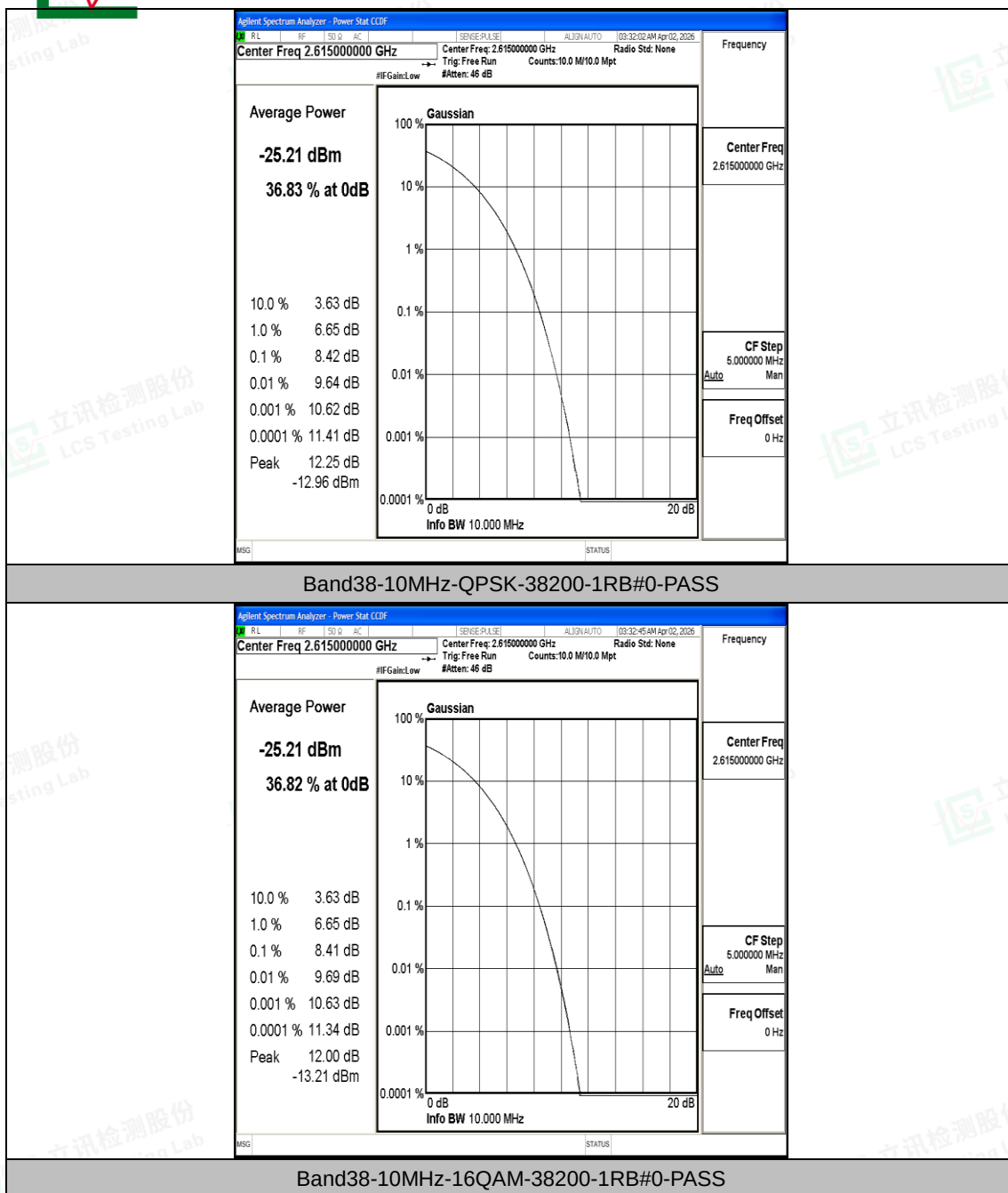


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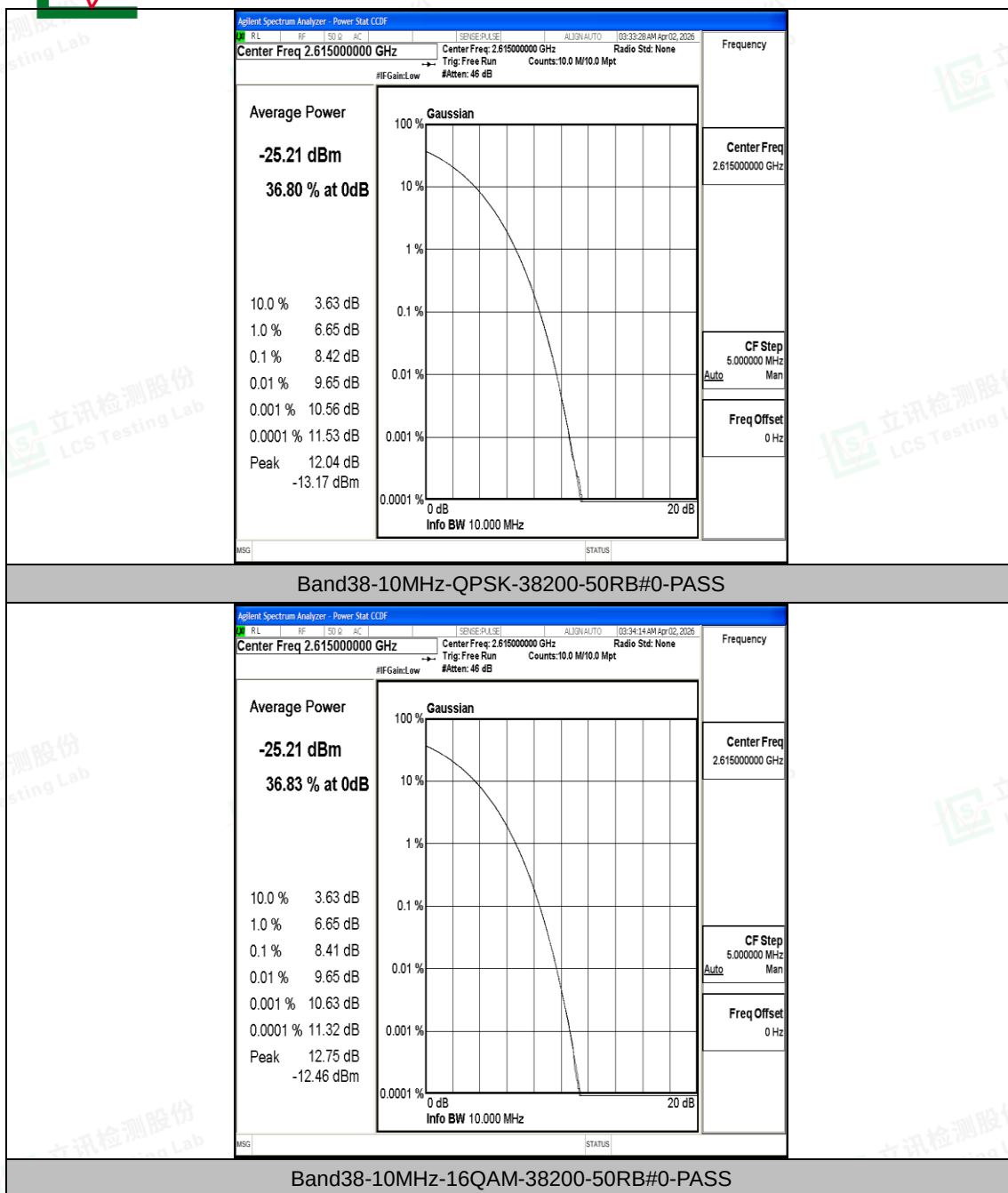


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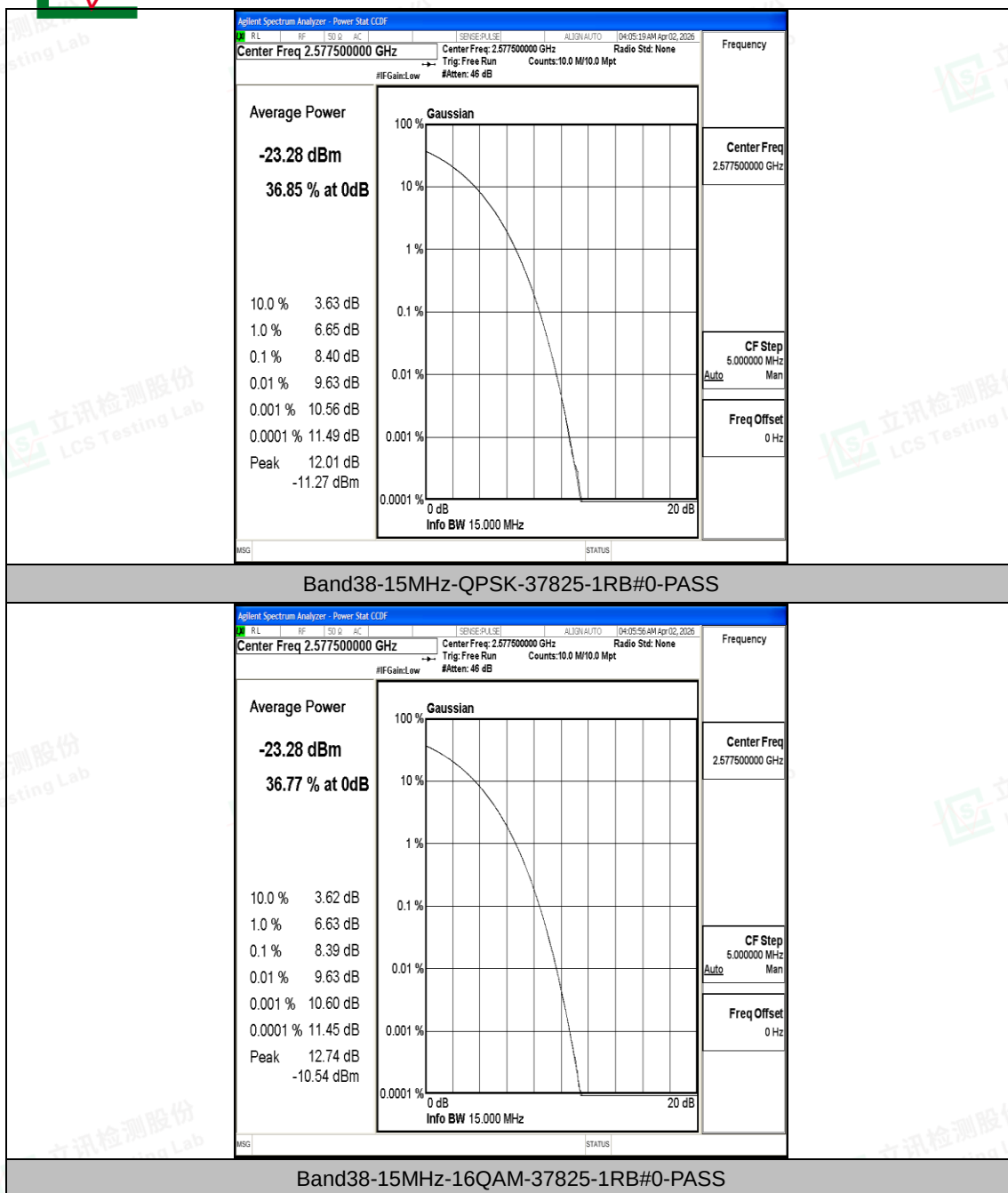


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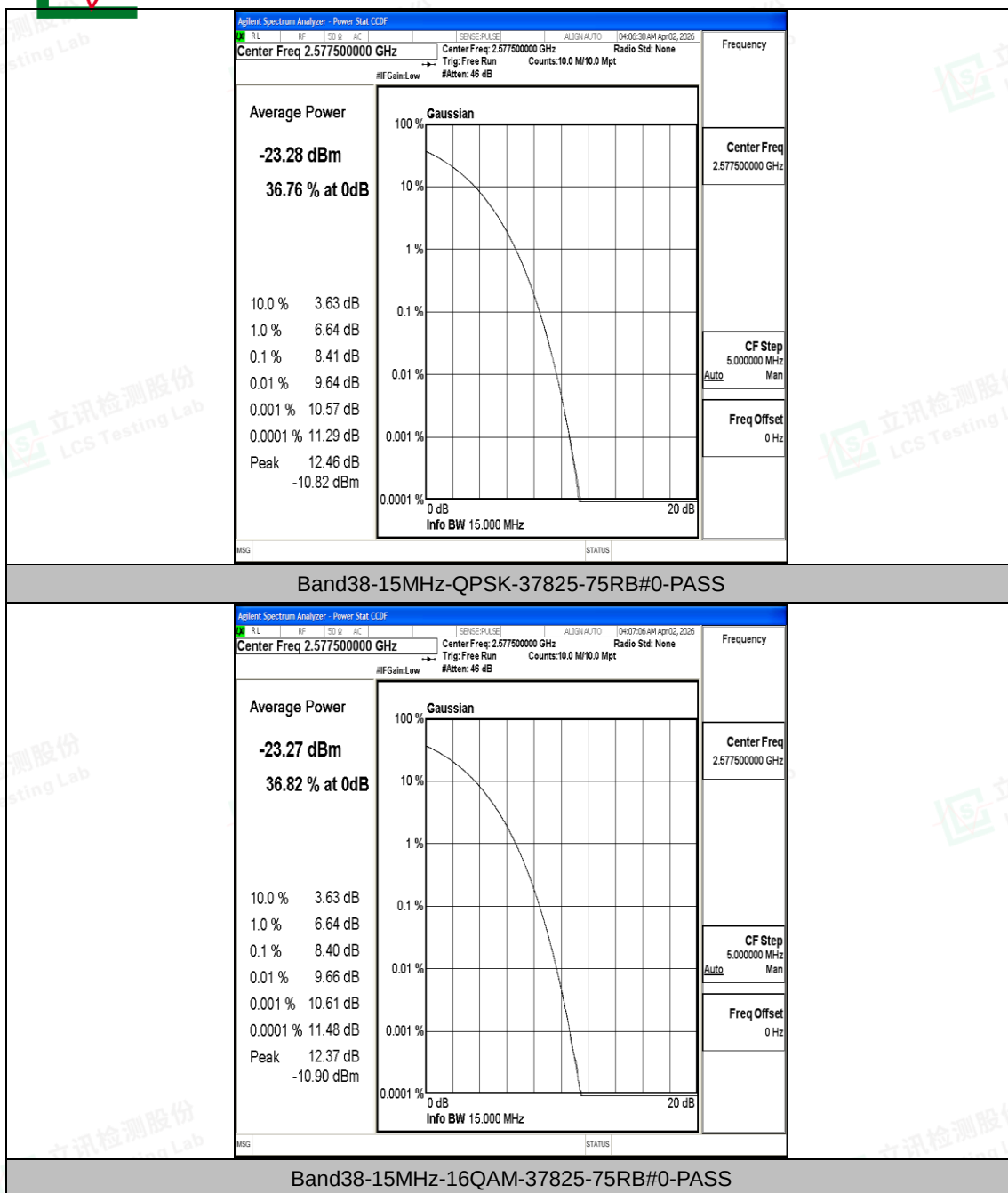


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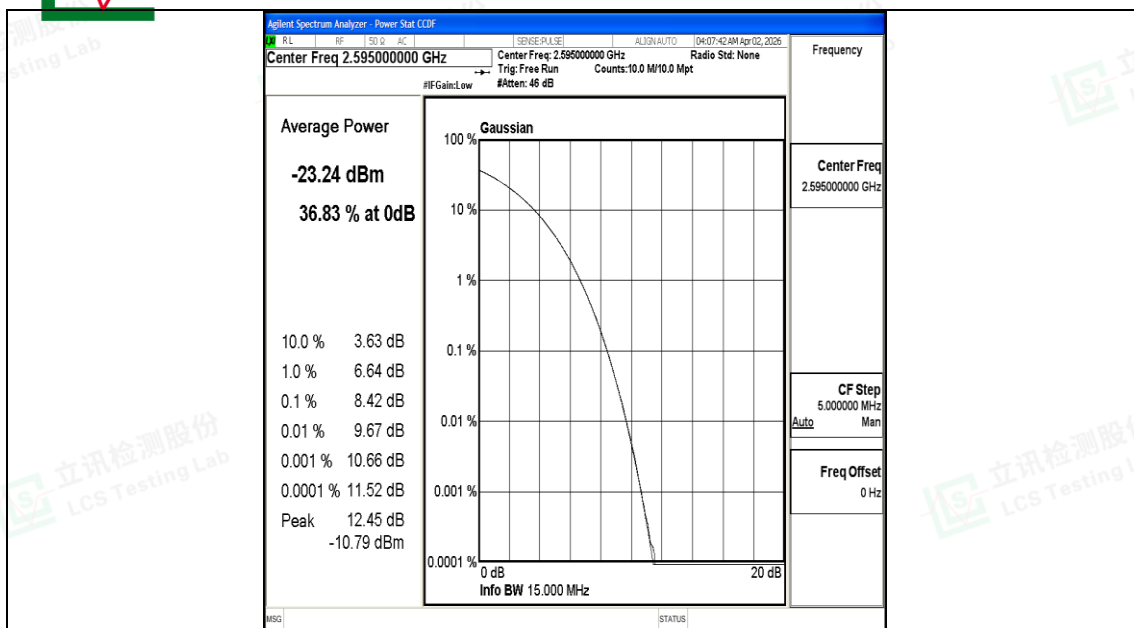


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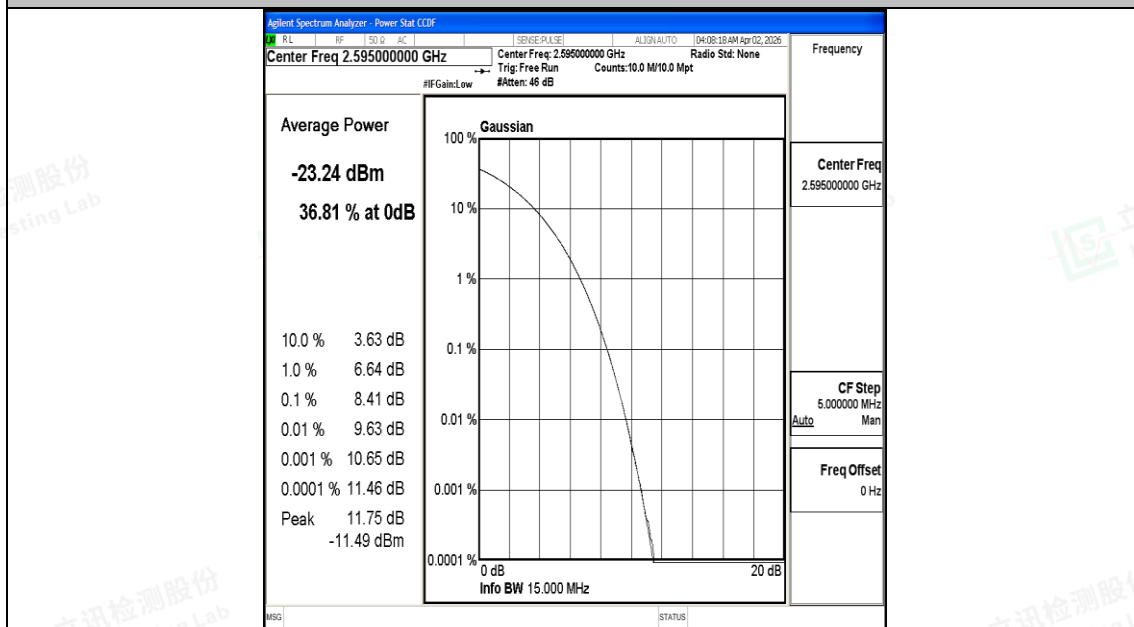
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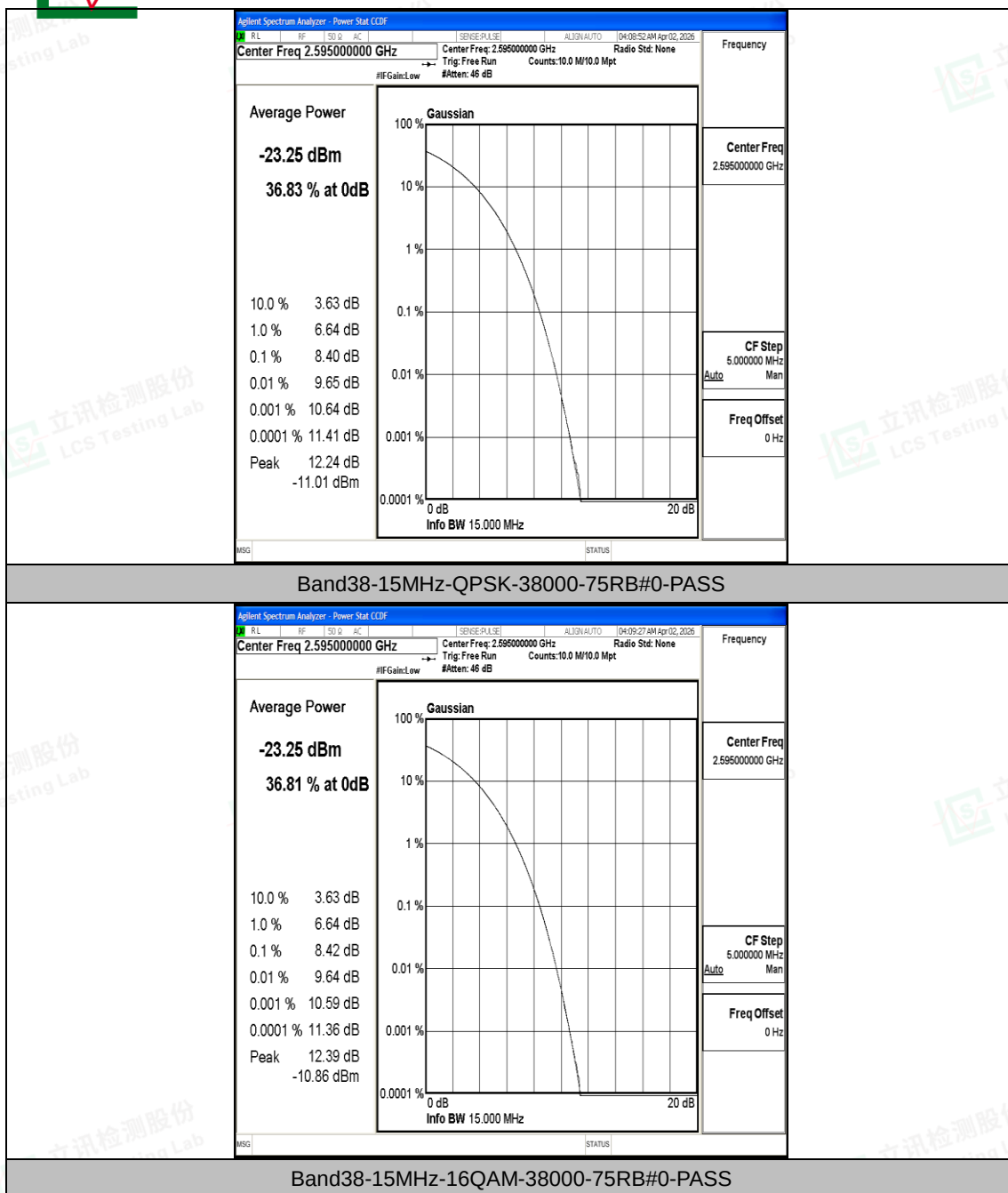


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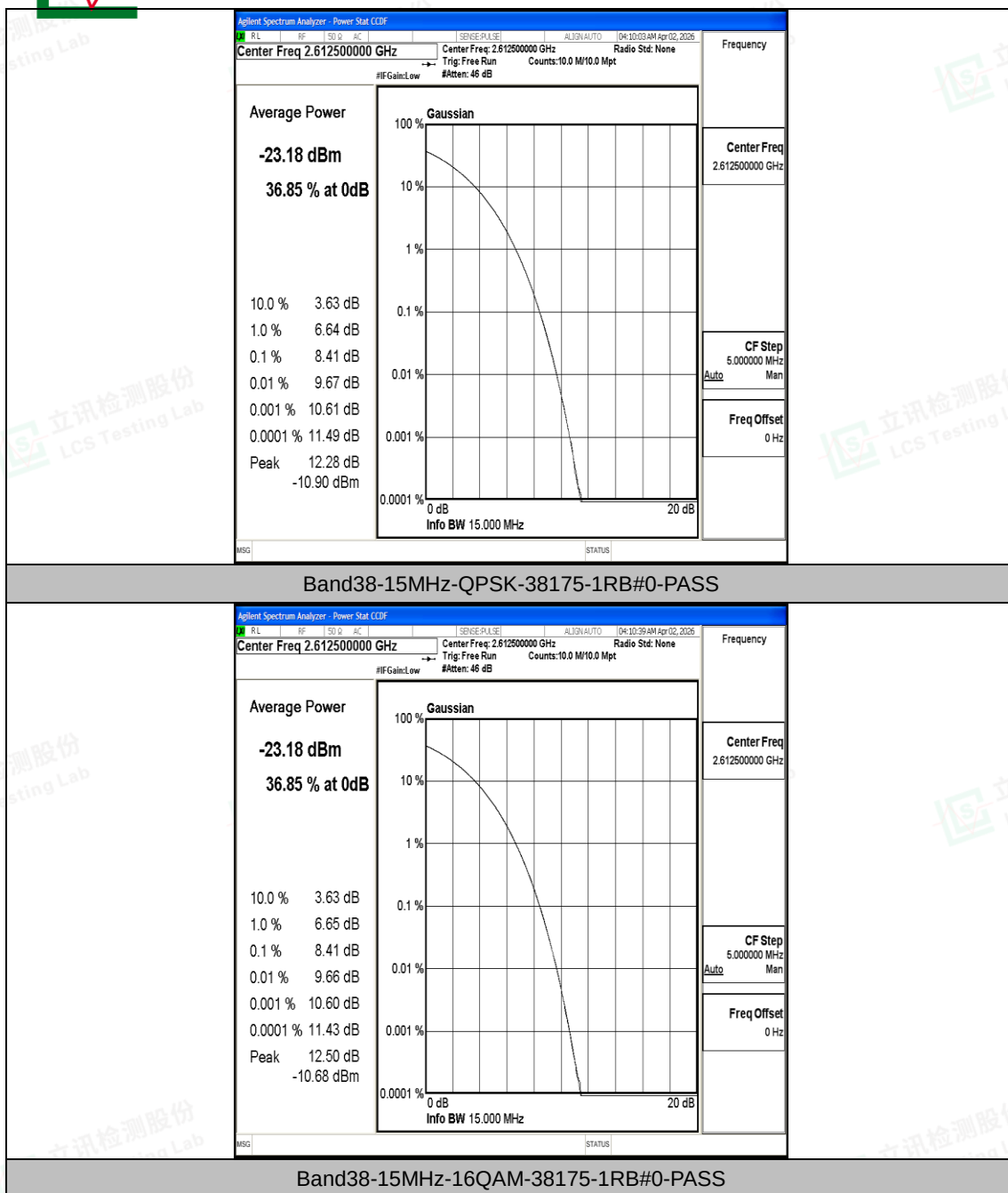


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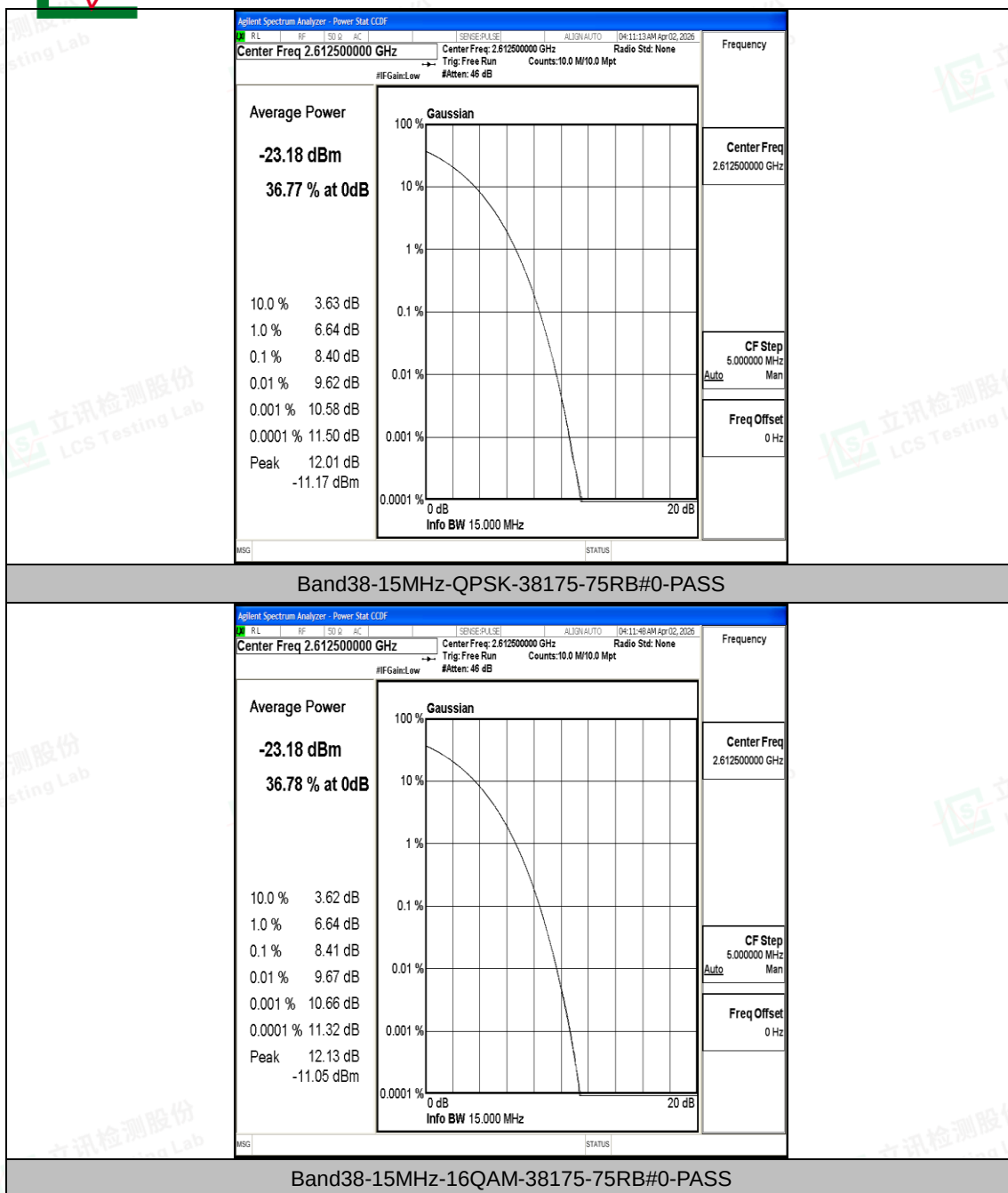


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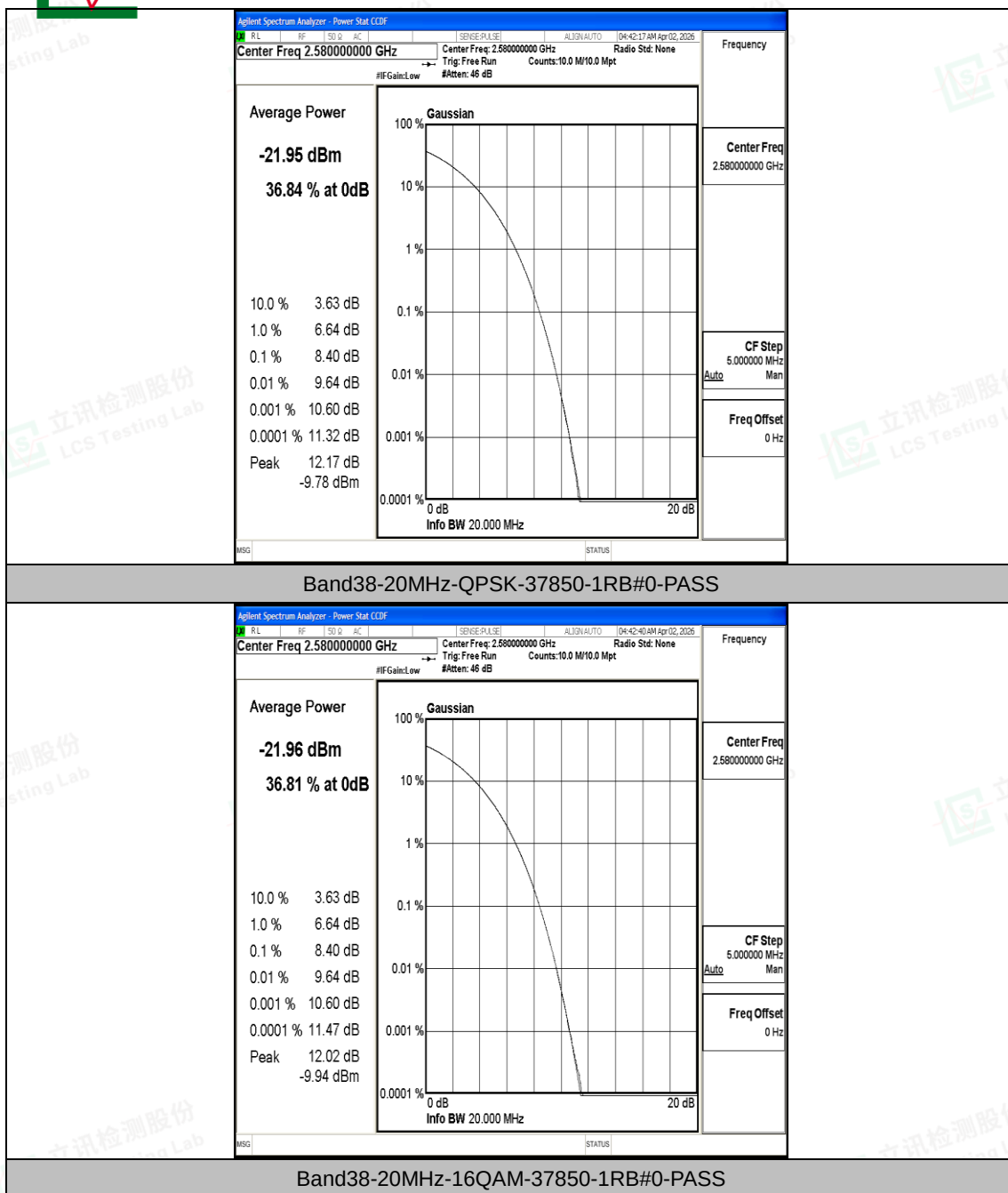


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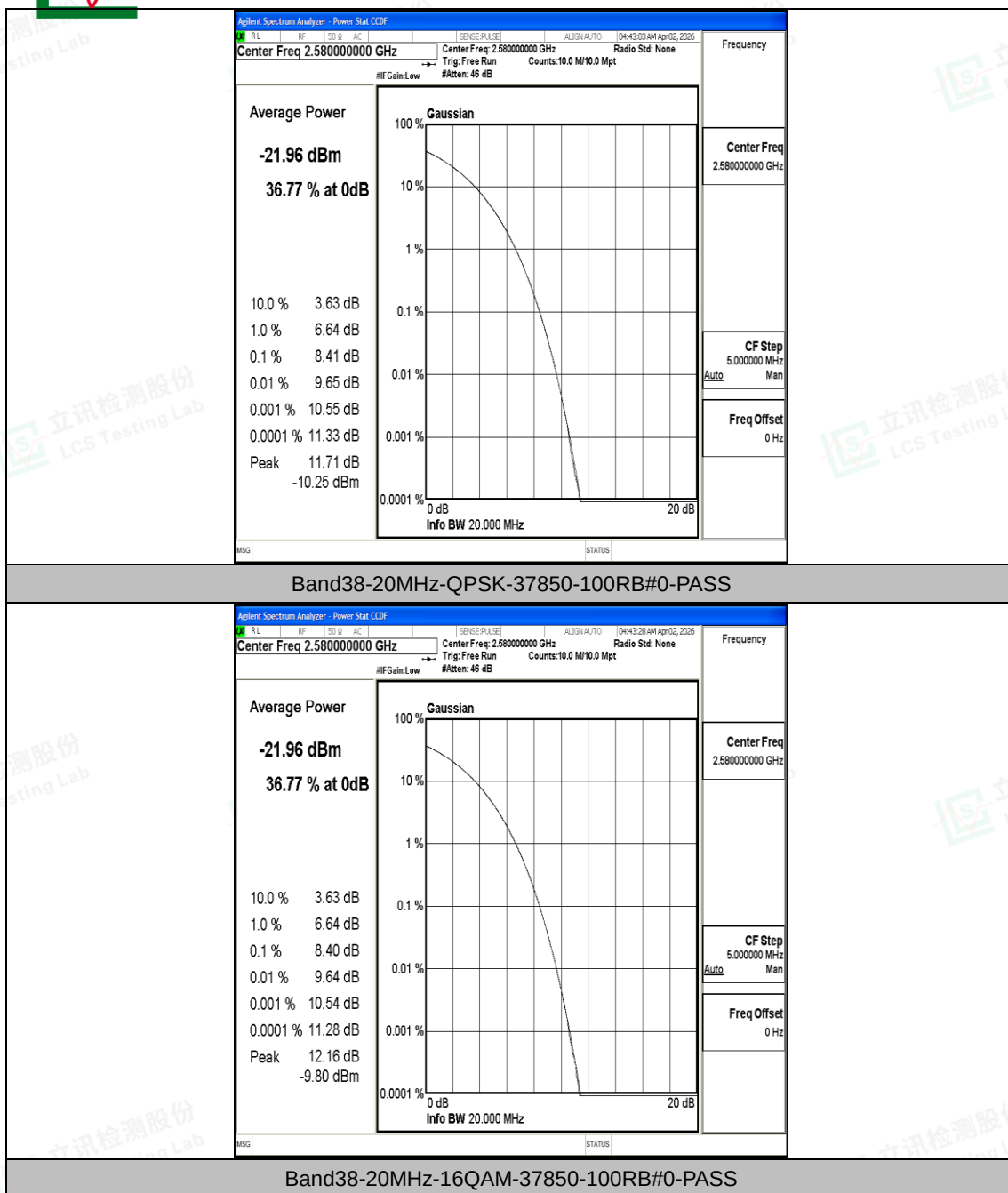


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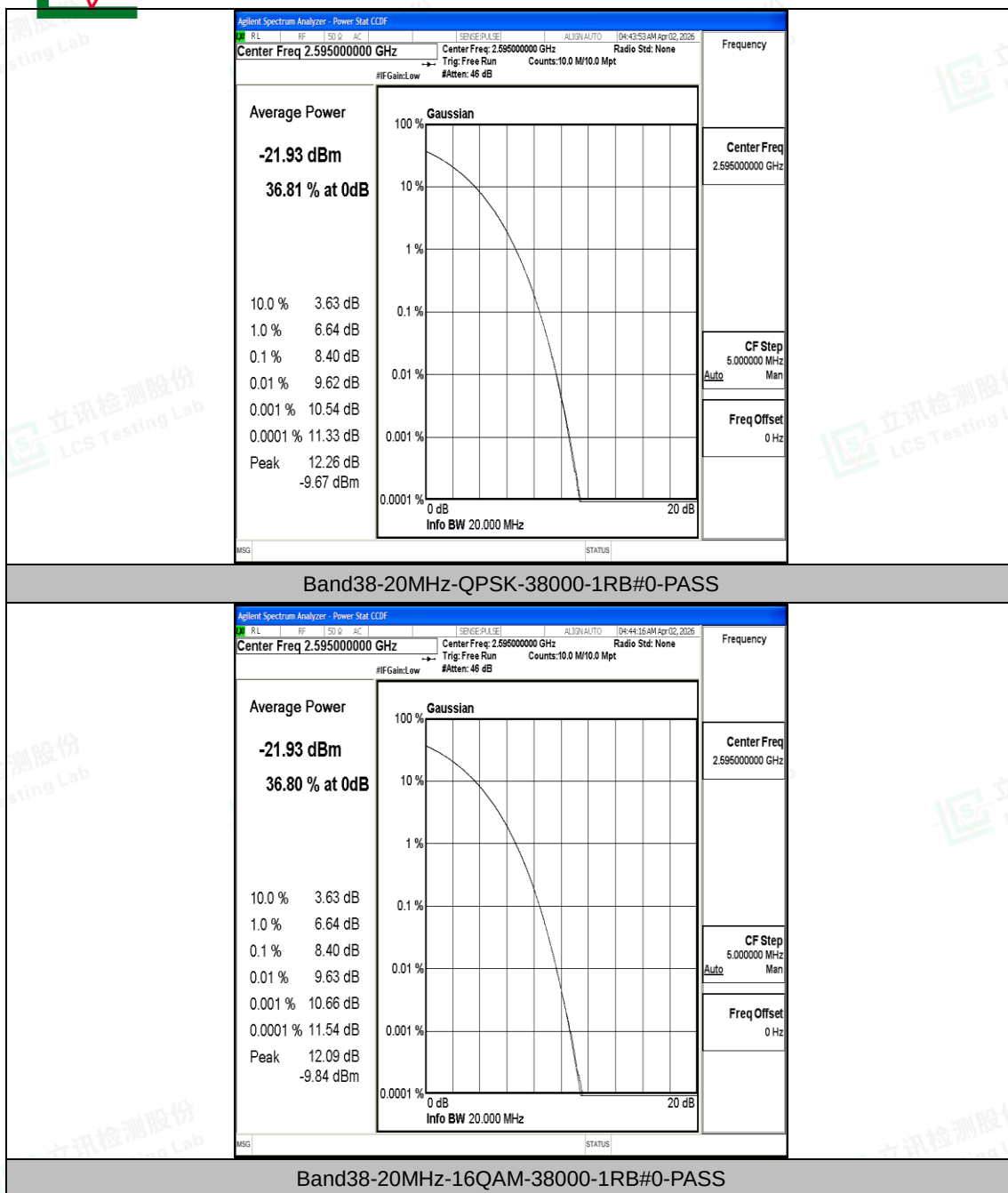


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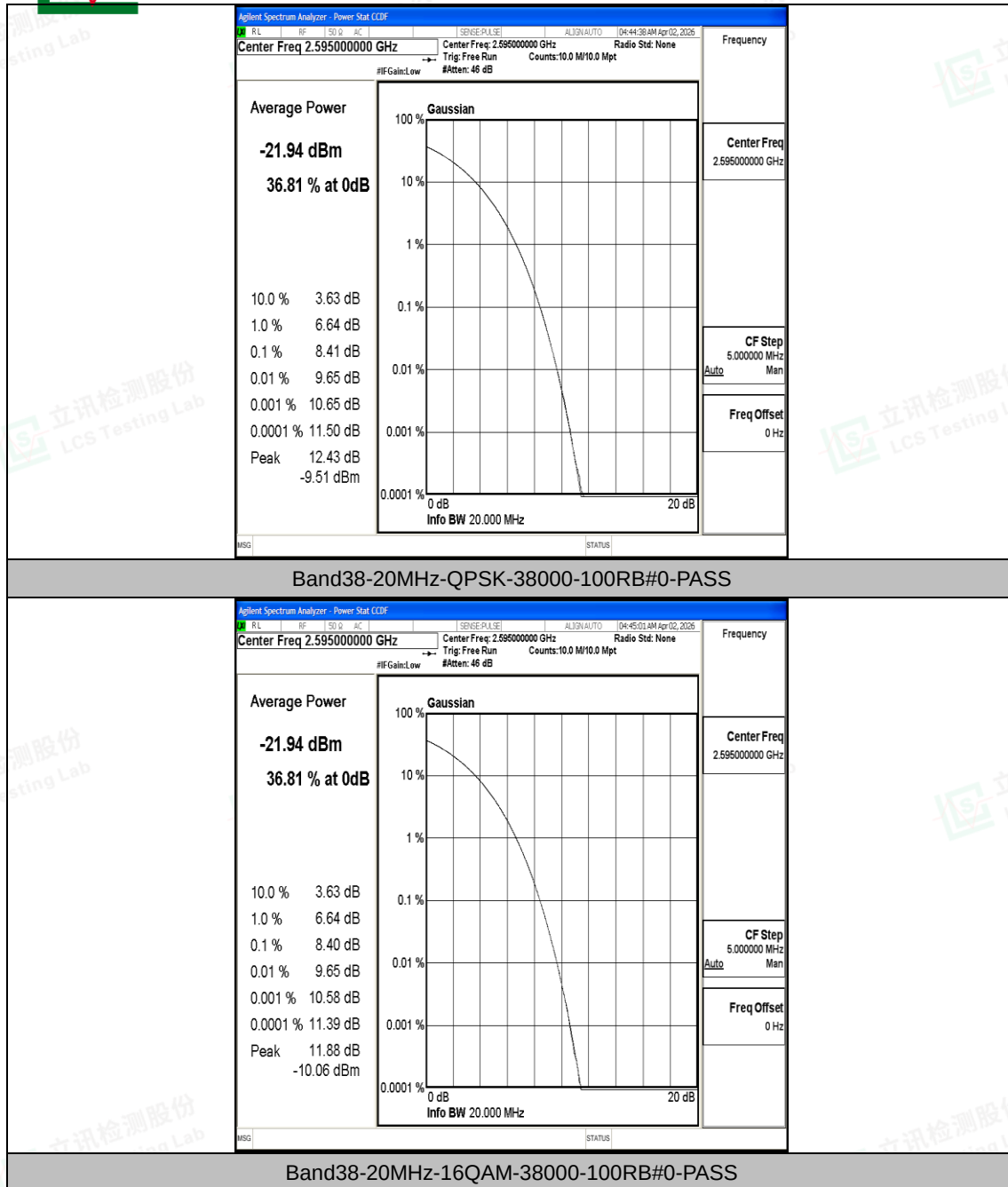


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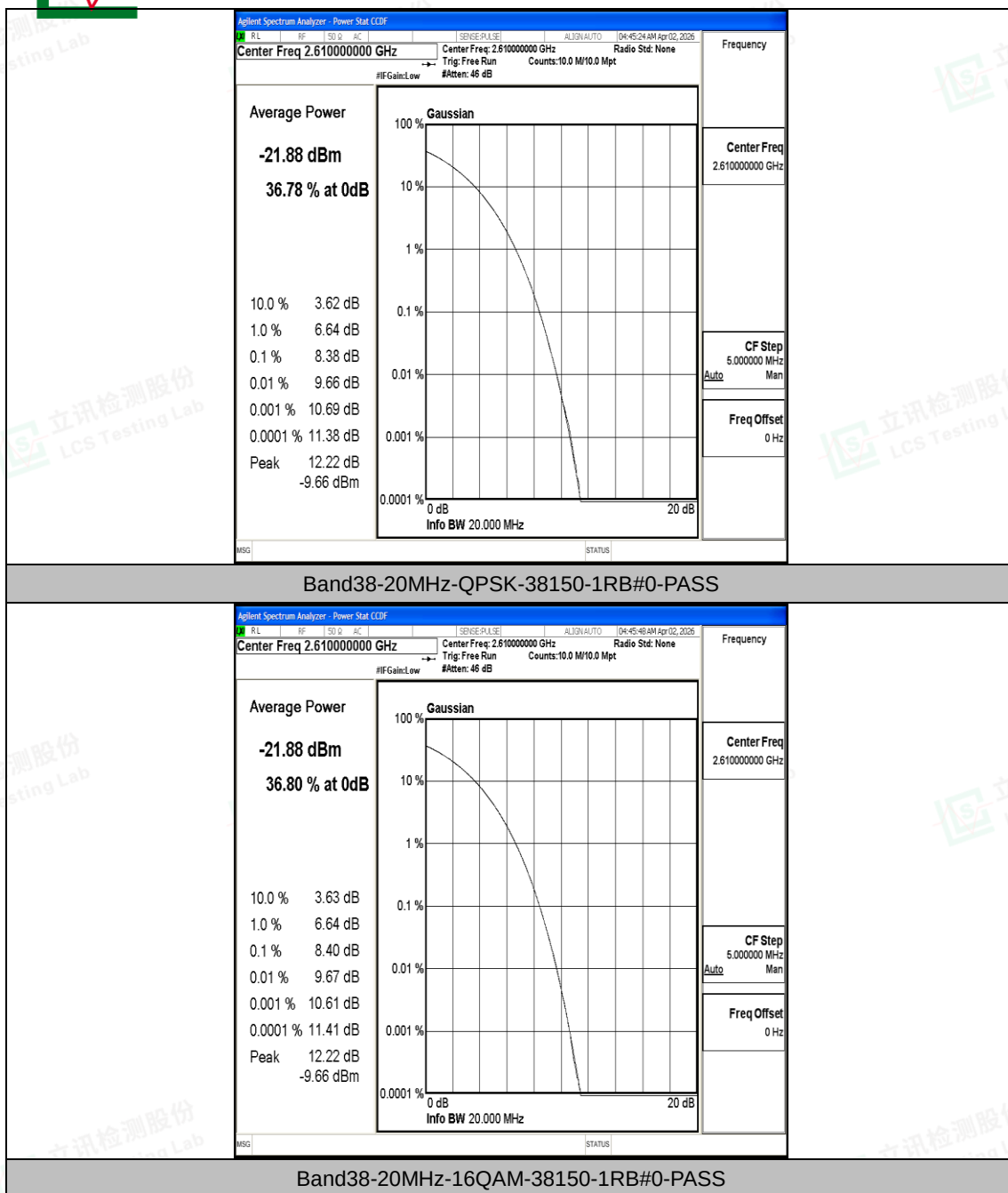


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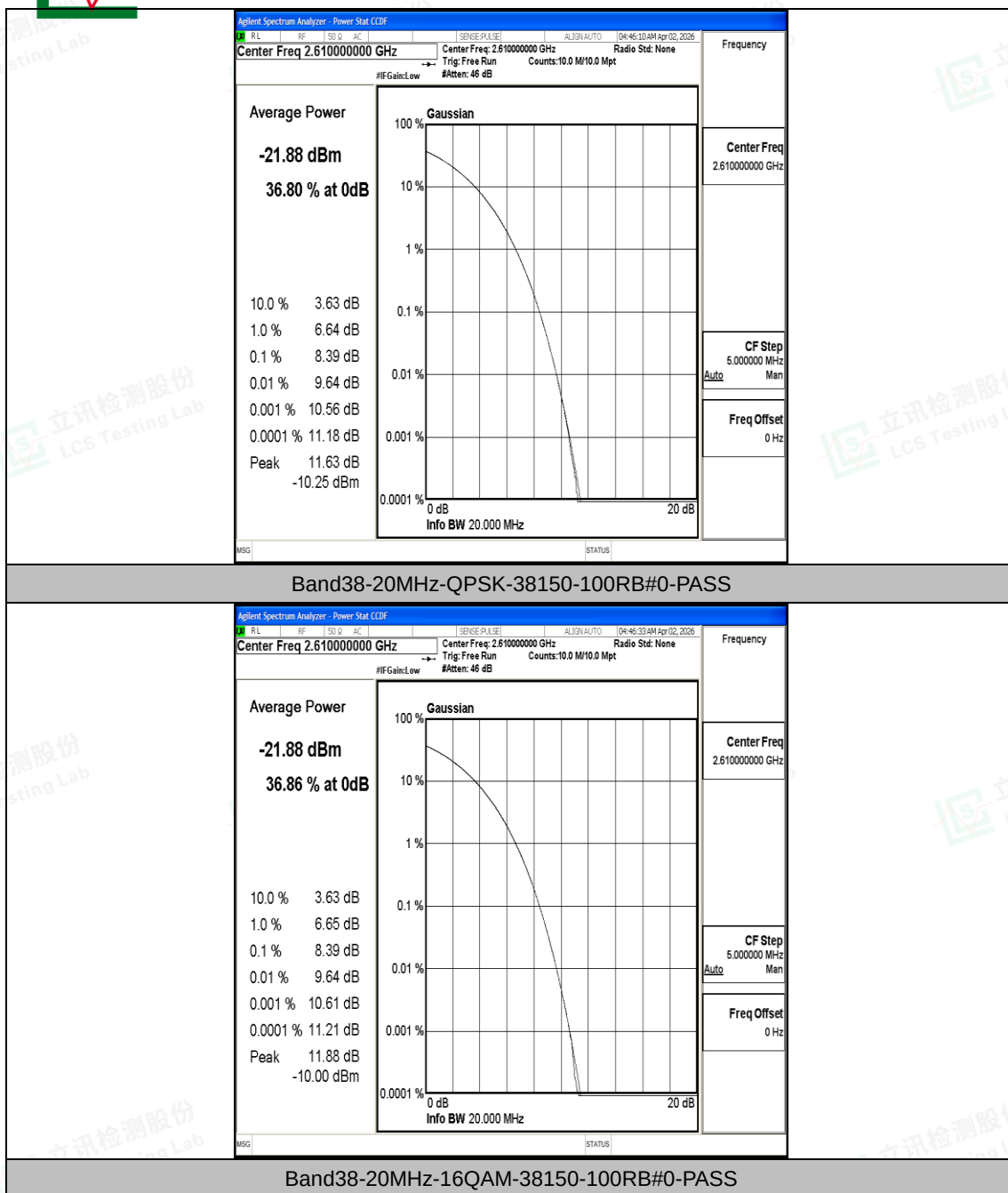


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I.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5179	5.015	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5173	5.003	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5154	5.030	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5144	5.536	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4982	5.082	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4986	4.981	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9881	9.841	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9707	9.893	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9691	9.871	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9657	9.789	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9714	9.794	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9731	9.829	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.477	15.43	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.492	15.15	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.469	14.82	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.463	15.16	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.497	15.15	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.896	19.46	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.946	19.39	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.933	19.59	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.963	19.29	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.504	15.40	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.907	19.42	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.959	20.93	PASS



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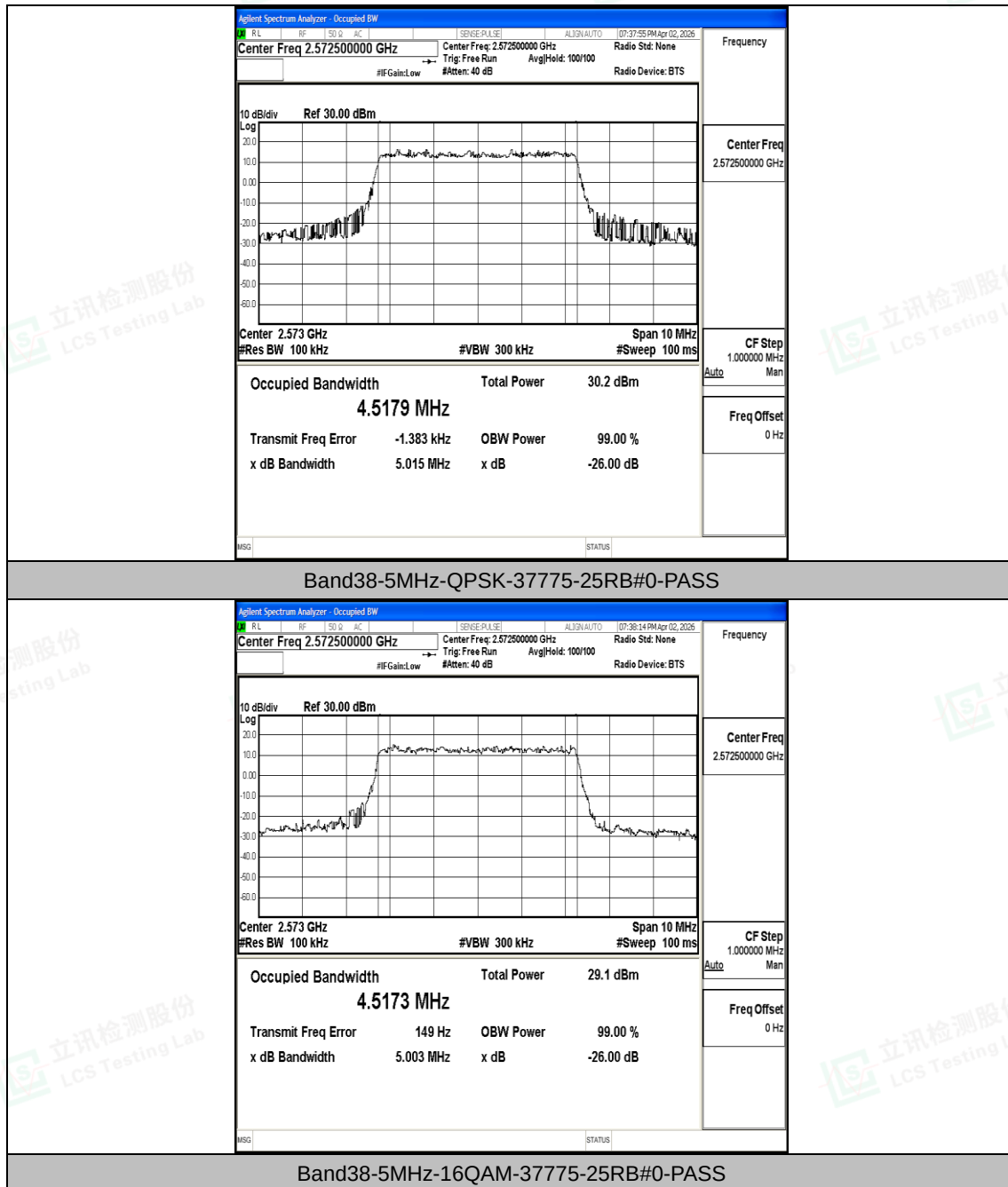
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Test Graphs

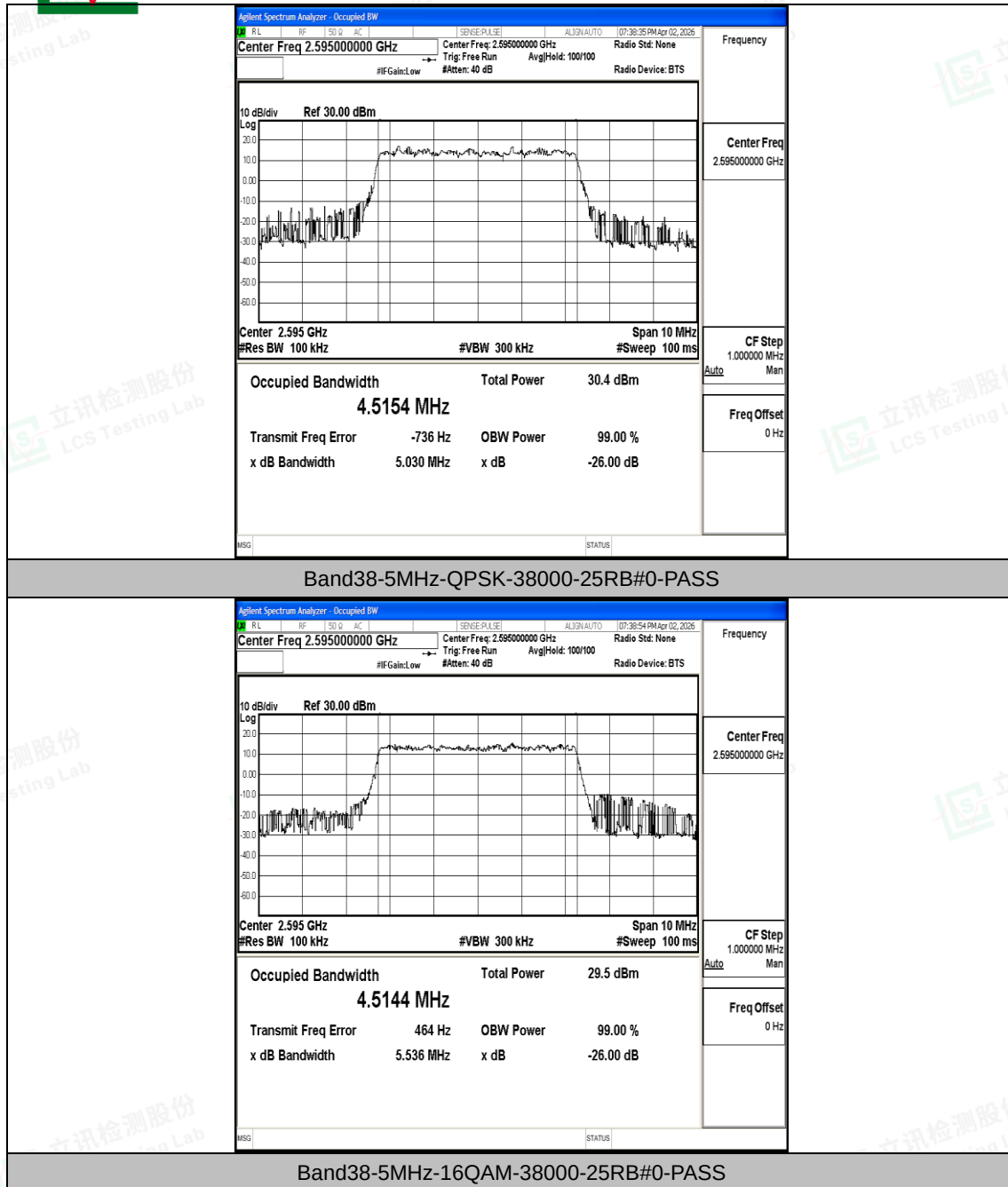


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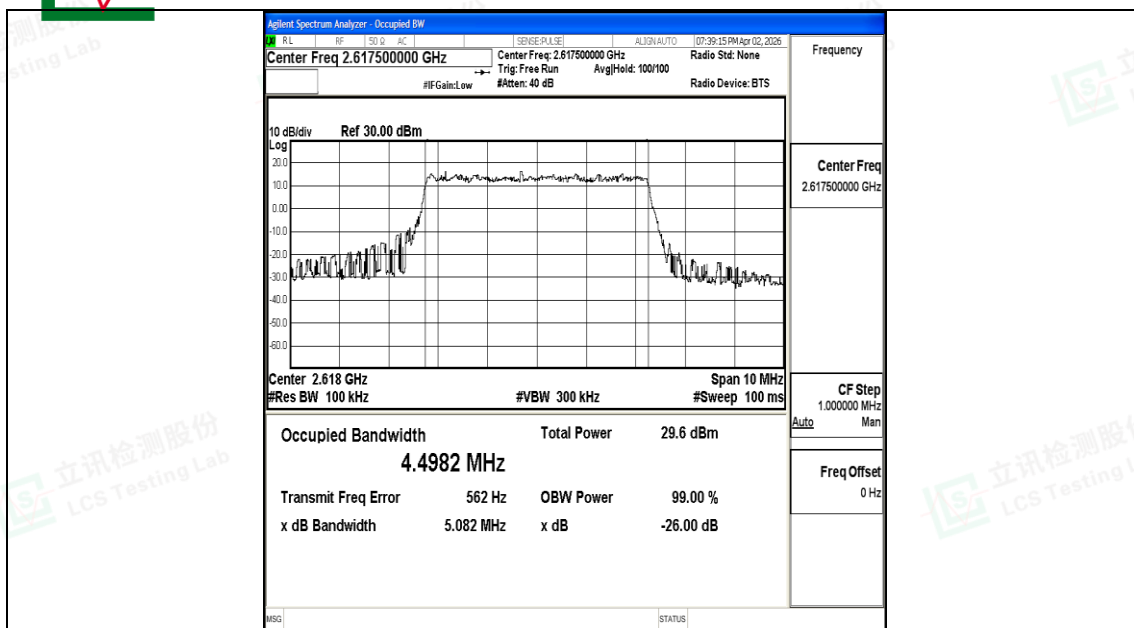


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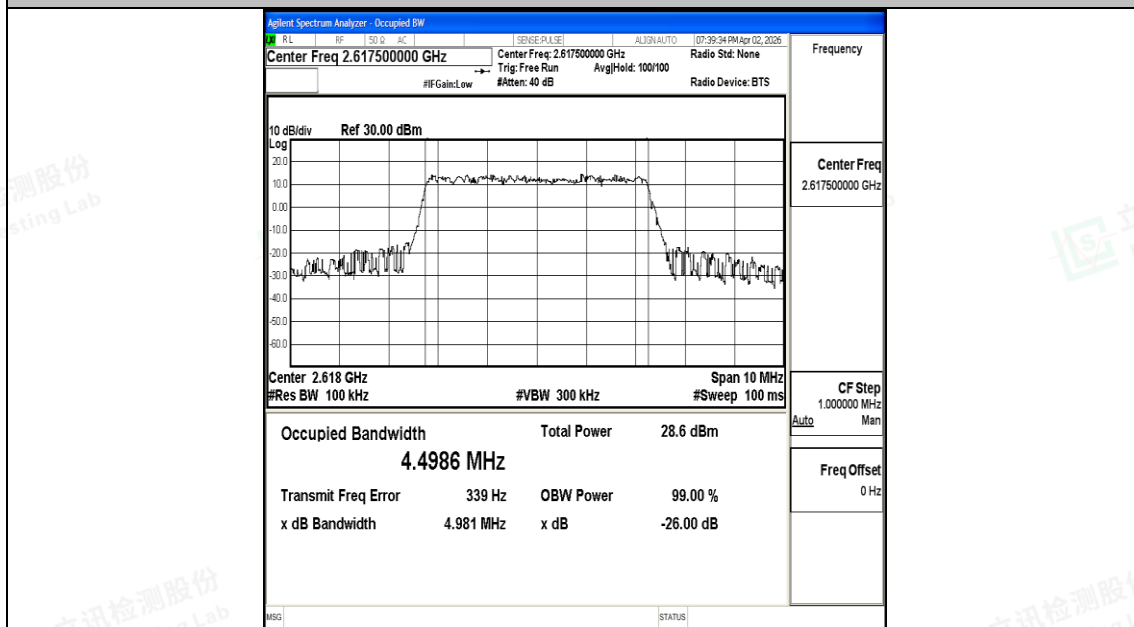
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Band38-5MHz-QPSK-38225-25RB#0-PASS



Band38-5MHz-16QAM-38225-25RB#0-PASS

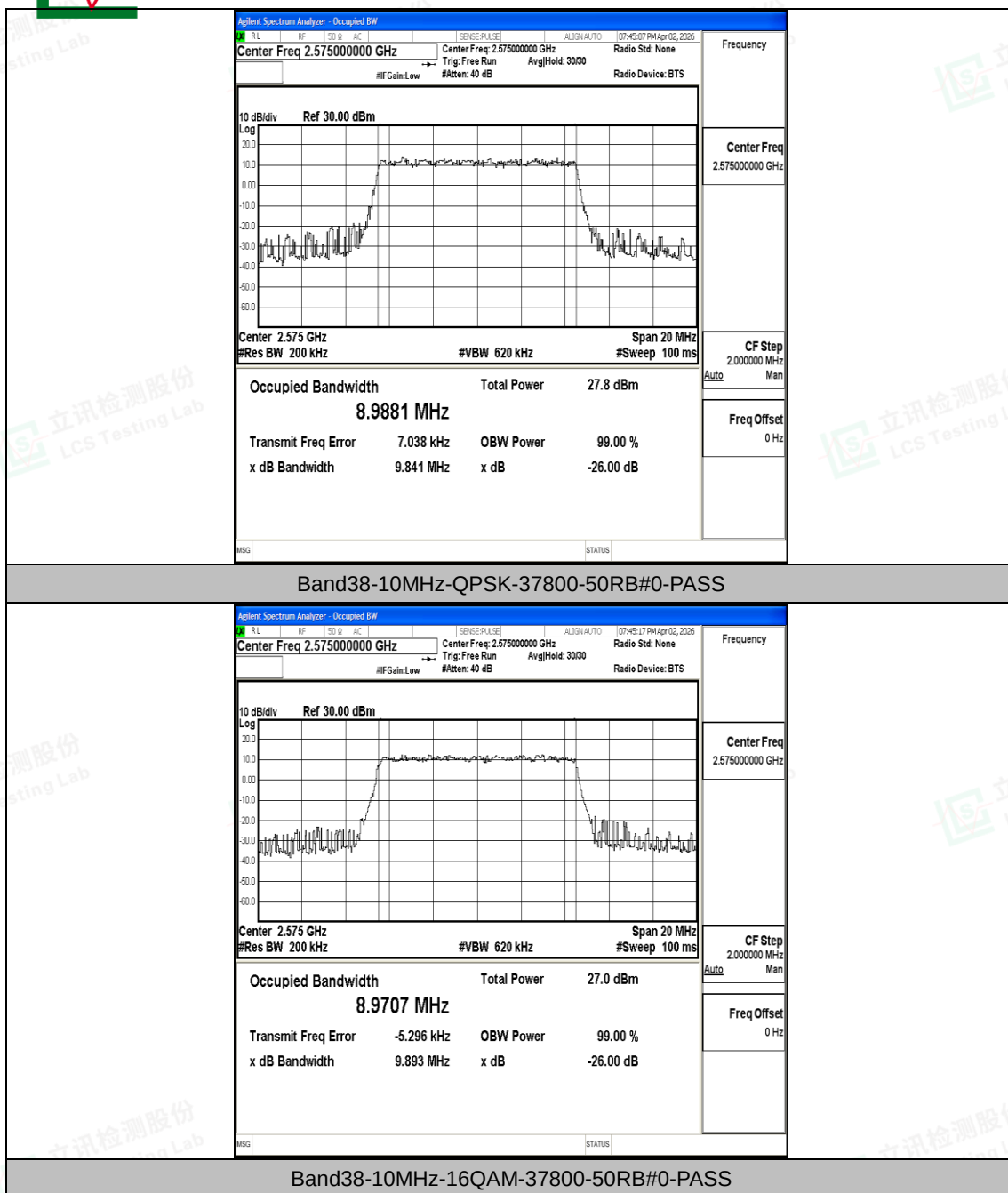


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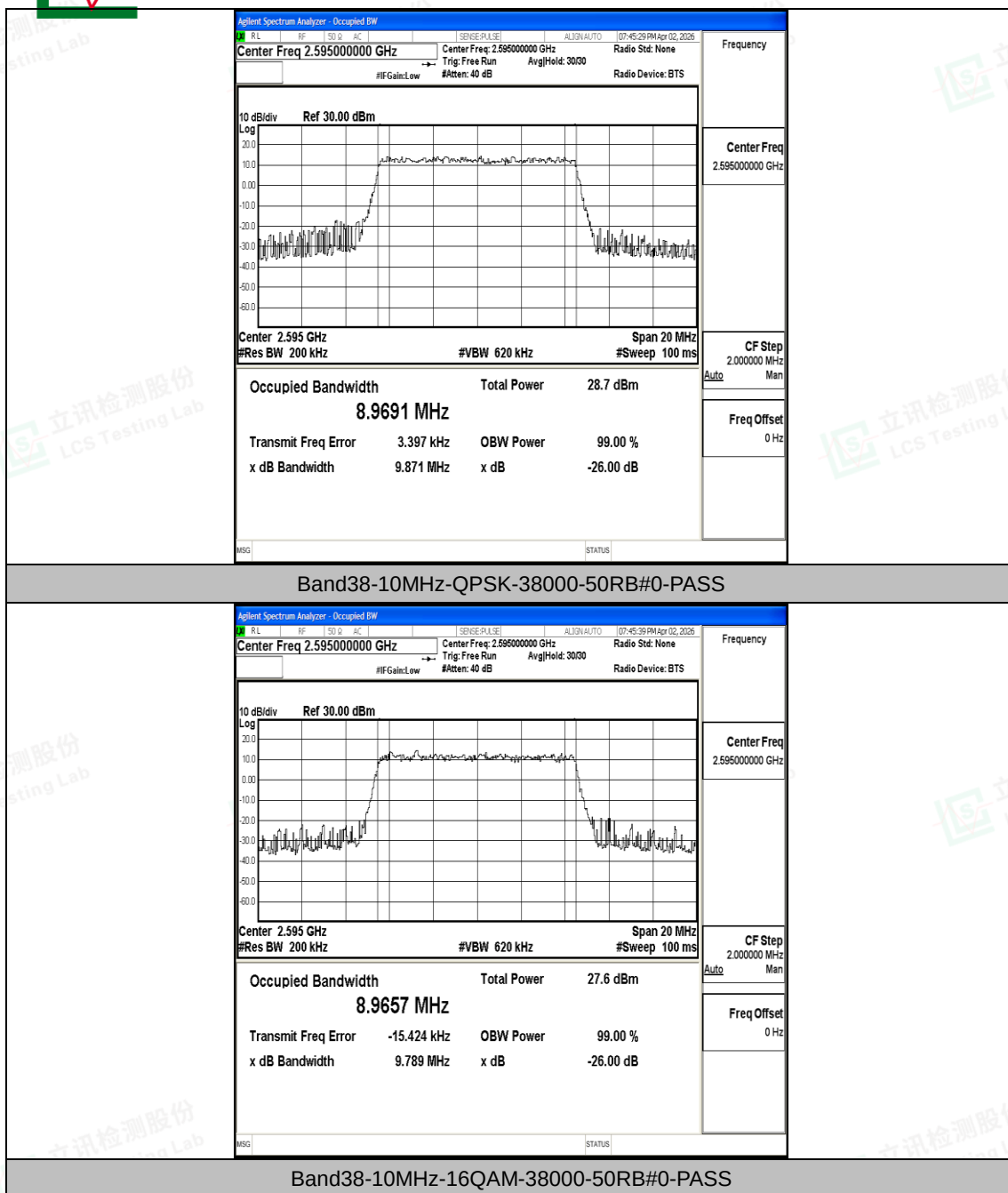


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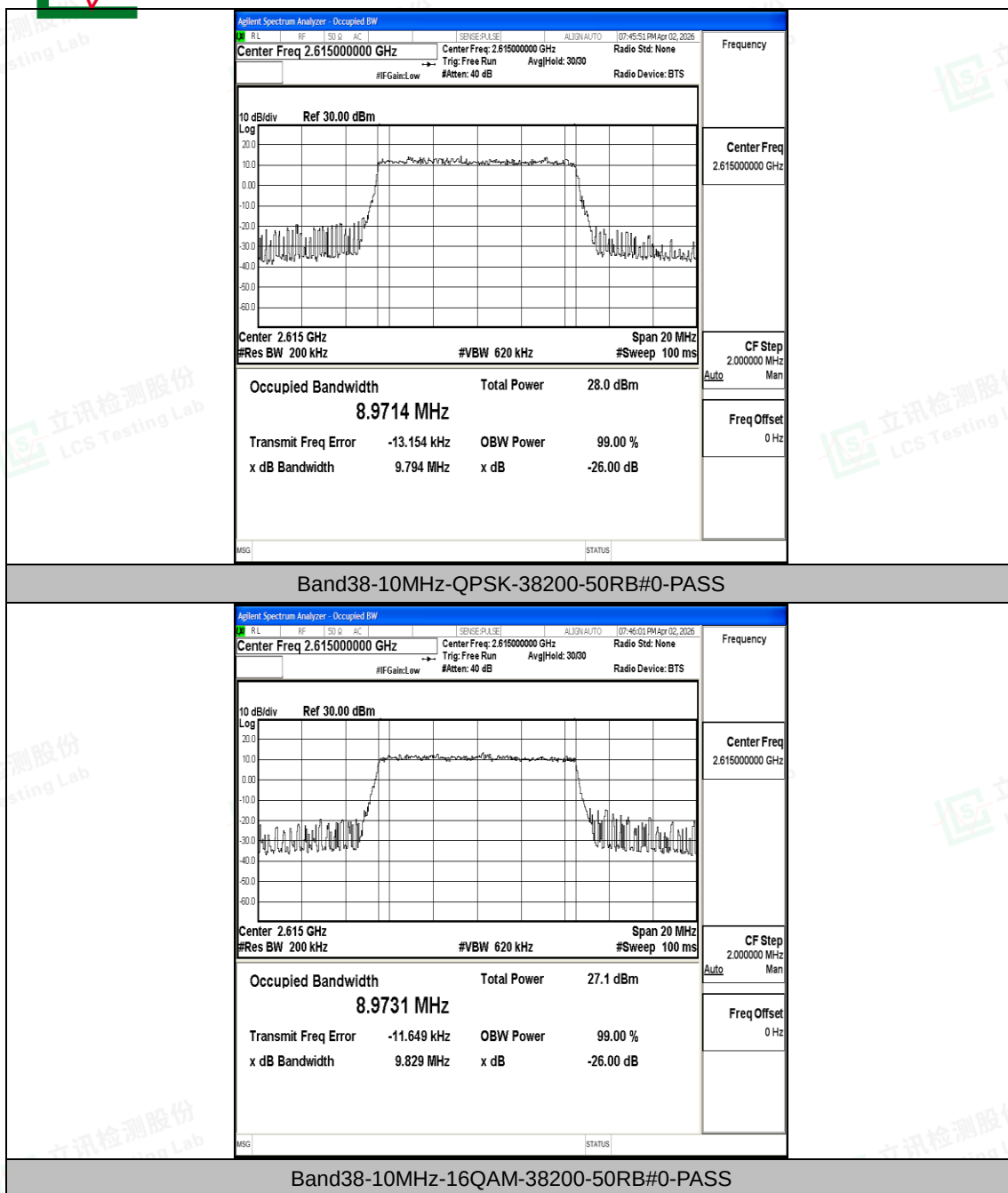


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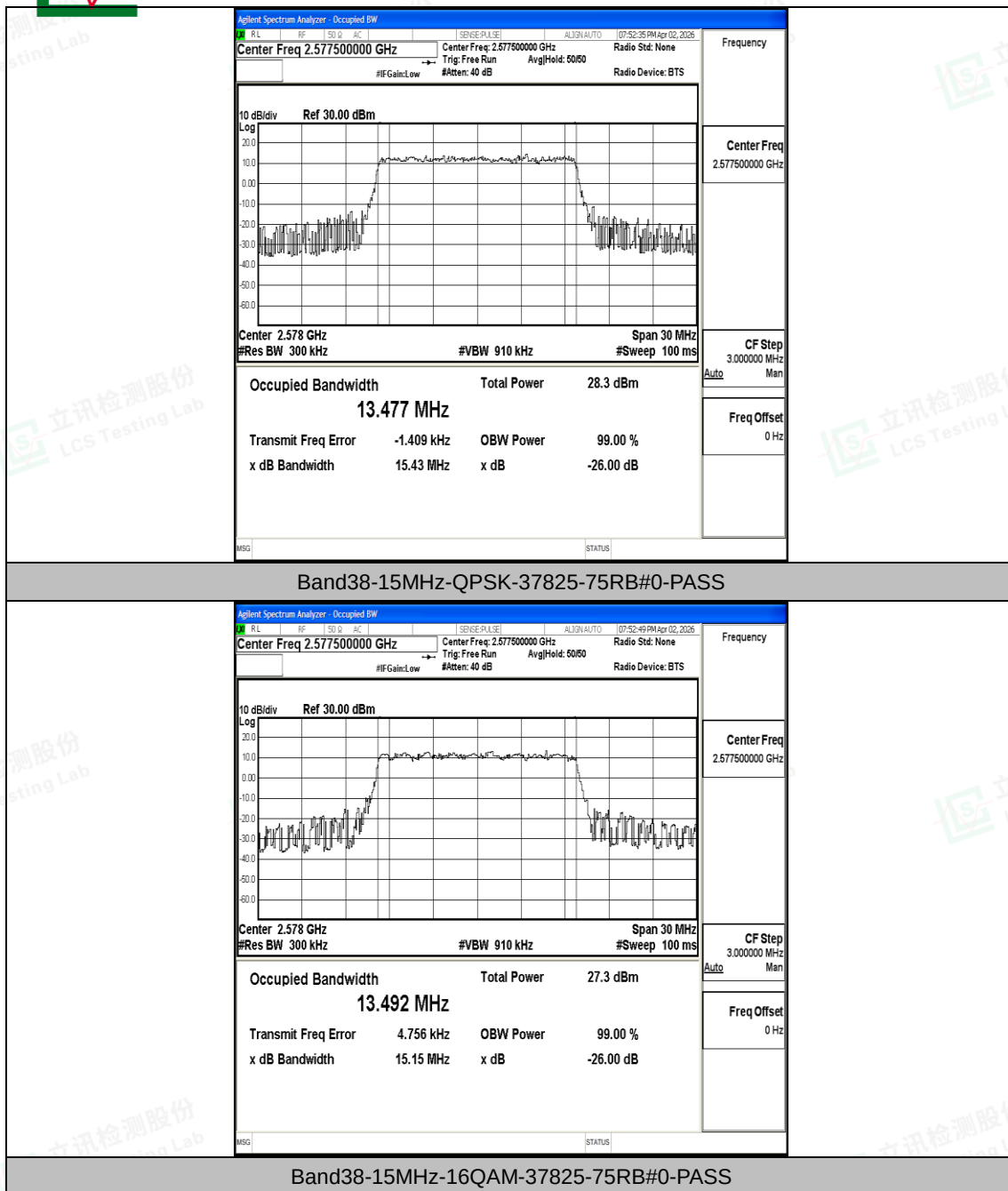


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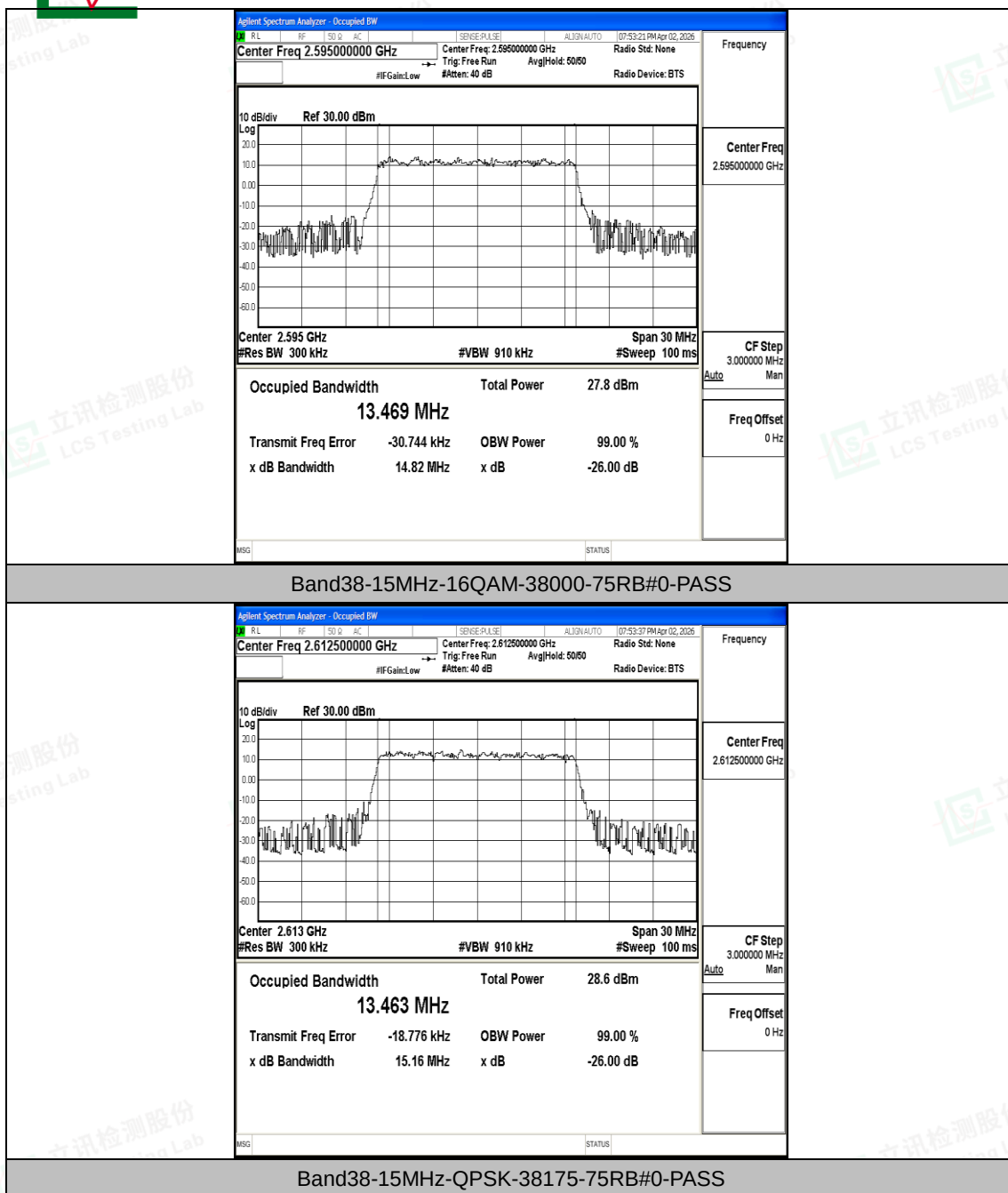


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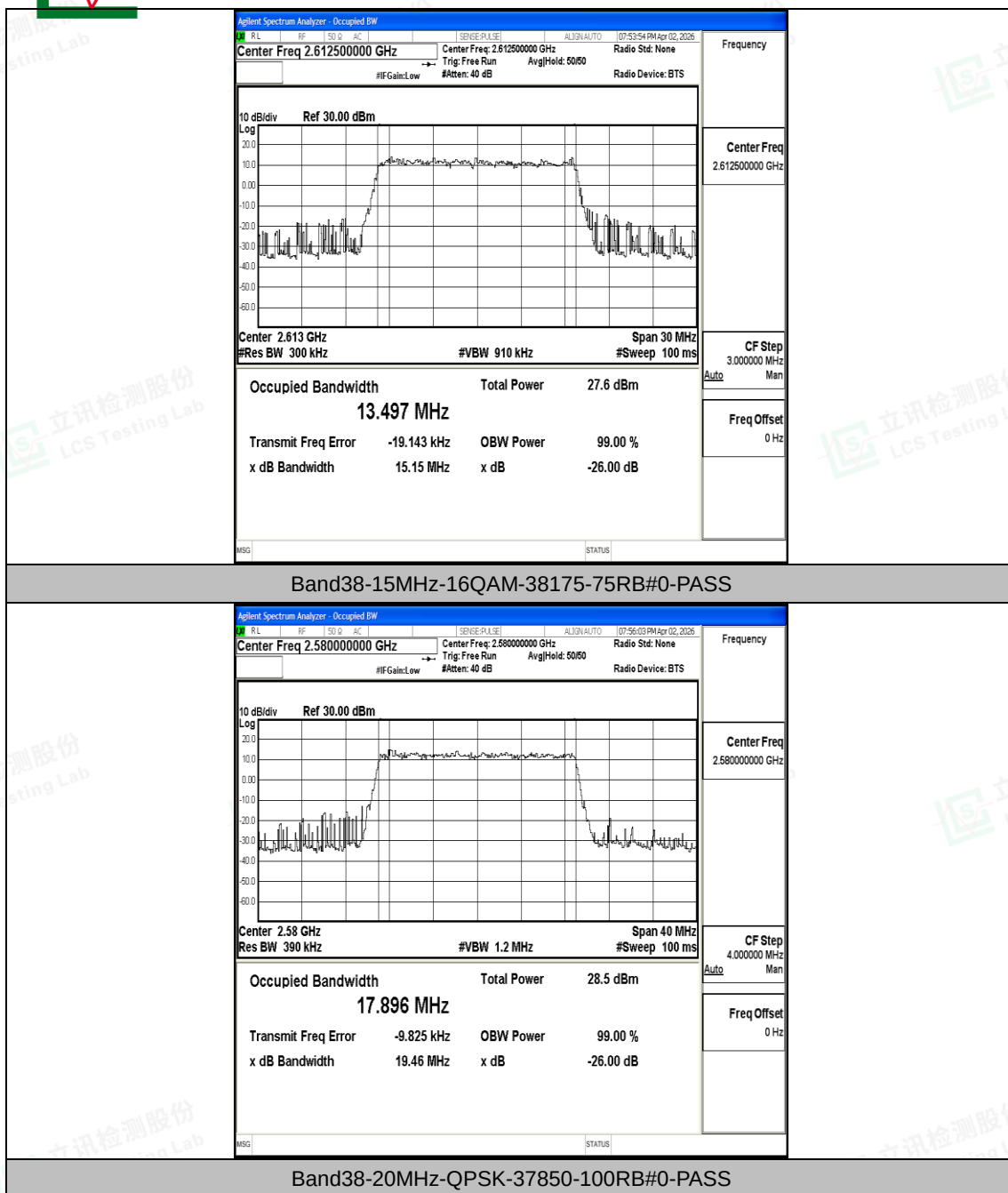


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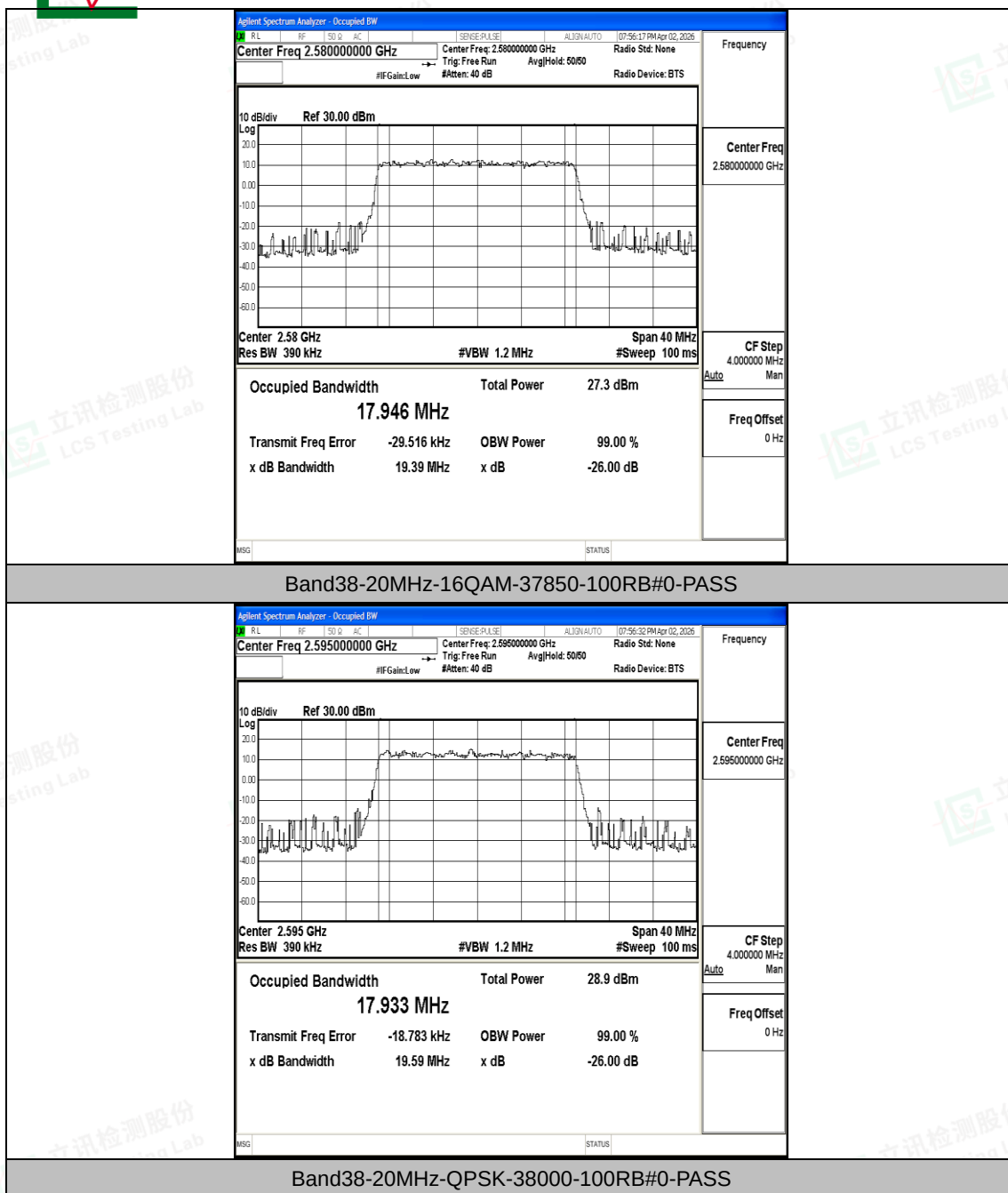


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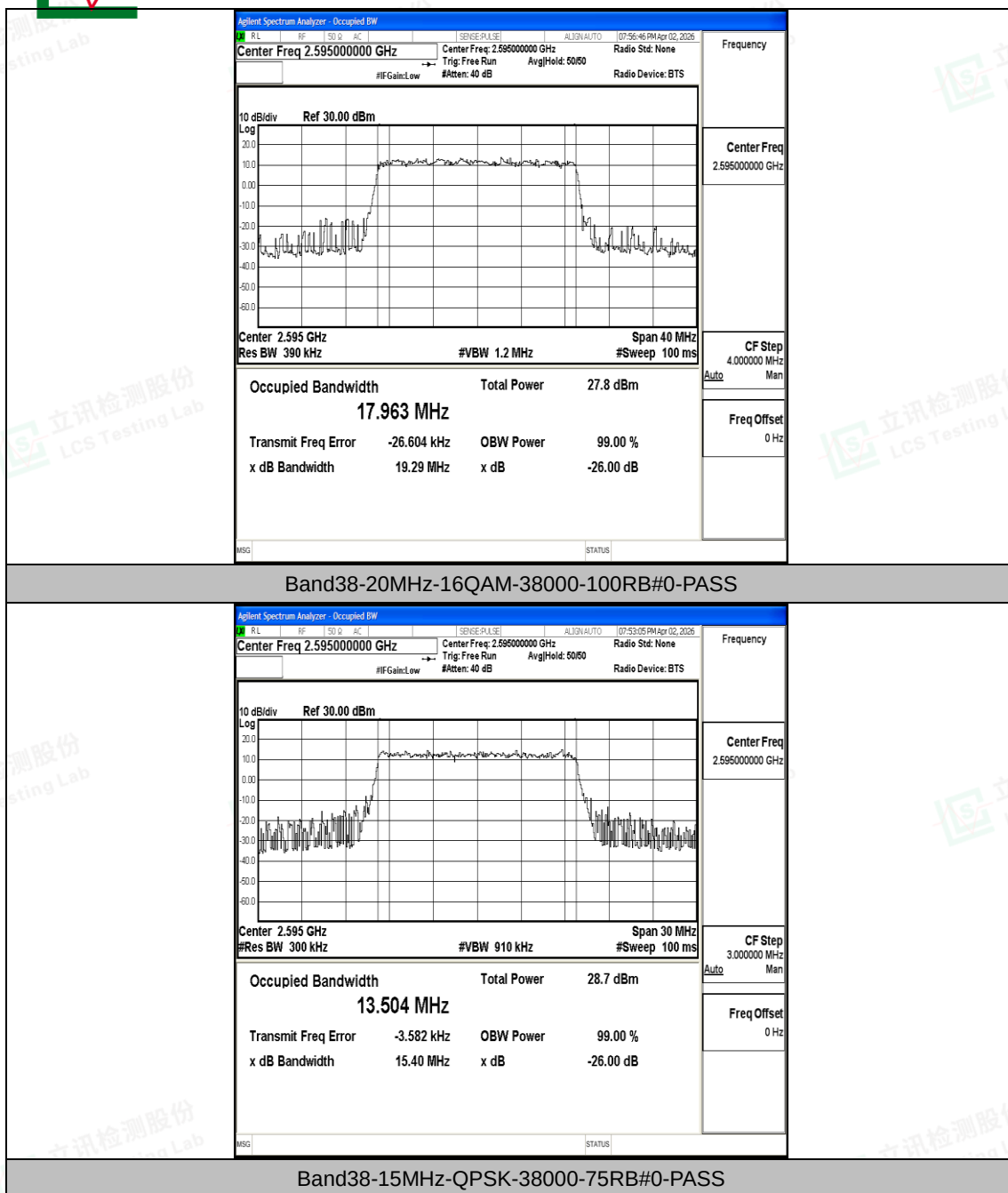


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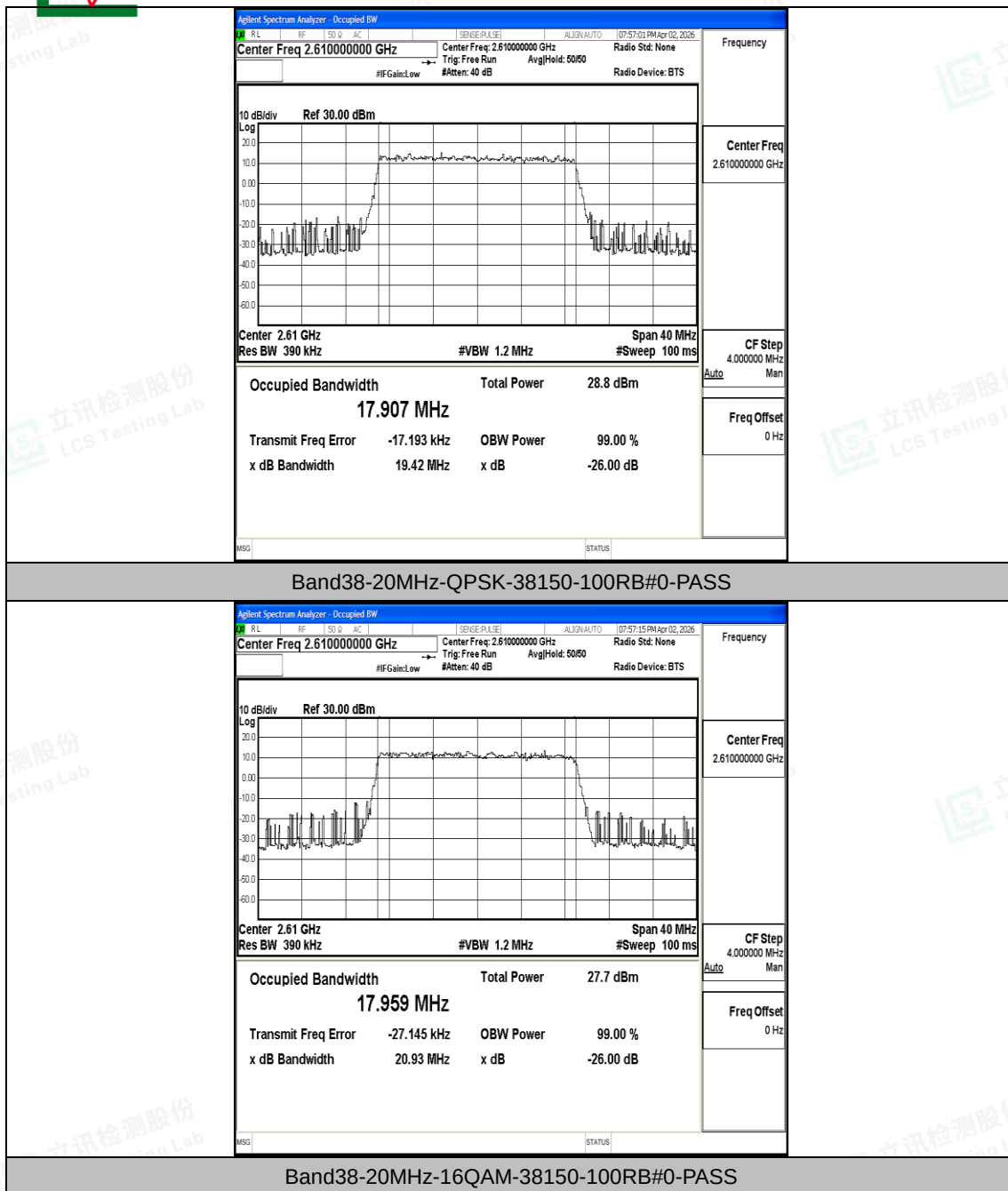


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