



Appendix O: Test Data for E-UTRA Band 38

Product Name: Rugged Handheld Computer

Test Model: EA530 UHF

Environmental Conditions

Temperature:	24.4°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Paddi Chen





O.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.41	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.09	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.37	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.35	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.43	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.15	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.40	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.76	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.39	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.75	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.31	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.64	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.34	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.94	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.29	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.01	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.26	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.98	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.30	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.13	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.12	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.60	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.11	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.59	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.22	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.51	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.08	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.61	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.01	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.64	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.96	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.76	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.88	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.67	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.94	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.13	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.93	PASS





Band38	5MHz	16QAM	38225	12RB#6	20.25	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.91	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.18	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.91	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.25	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.57	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.21	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.41	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.24	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.30	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.14	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.14	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.48	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.12	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.46	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.02	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.45	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.15	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.18	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.11	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.17	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.08	PASS
Band38	10MHz	QPSK	38000	25RB#0	20.96	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.27	PASS
Band38	10MHz	QPSK	38000	25RB#12	20.95	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.32	PASS
Band38	10MHz	QPSK	38000	25RB#25	20.96	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.28	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.03	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.41	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.04	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.87	PASS
Band38	10MHz	QPSK	38200	1RB#24	21.97	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.78	PASS
Band38	10MHz	QPSK	38200	1RB#49	21.94	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.83	PASS
Band38	10MHz	QPSK	38200	25RB#0	20.76	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.13	PASS
Band38	10MHz	QPSK	38200	25RB#12	20.75	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.12	PASS
Band38	10MHz	QPSK	38200	25RB#25	20.69	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.03	PASS





Band38	10MHz	QPSK	38200	50RB#0	20.79	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.10	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.52	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.22	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.38	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.31	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.46	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.21	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.30	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.05	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.05	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.04	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.04	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.03	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.03	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.59	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.29	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.17	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.73	PASS
Band38	15MHz	16QAM	38000	1RB#38	20.59	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.58	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.02	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.12	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.11	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.11	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.10	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.10	PASS
Band38	15MHz	16QAM	38000	38RB#37	20.98	PASS
Band38	15MHz	QPSK	38000	75RB#0	20.98	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.43	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.19	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.09	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.07	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.13	PASS
Band38	15MHz	QPSK	38175	1RB#74	21.29	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.25	PASS
Band38	15MHz	QPSK	38175	38RB#0	20.33	PASS
Band38	15MHz	16QAM	38175	38RB#0	20.31	PASS
Band38	15MHz	QPSK	38175	38RB#18	20.30	PASS
Band38	15MHz	16QAM	38175	38RB#18	20.29	PASS
Band38	15MHz	QPSK	38175	38RB#37	20.29	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.11	PASS





Band38	15MHz	QPSK	38175	75RB#0	20.10	PASS
Band38	15MHz	16QAM	38175	75RB#0	19.46	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.25	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.19	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.29	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.21	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.31	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.96	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.10	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.27	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.18	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.27	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.16	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.08	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.20	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.79	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.89	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.87	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.99	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.87	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.99	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.13	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.37	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.13	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.35	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.20	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.33	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.16	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.15	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.25	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.16	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.28	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.82	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.92	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.07	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.31	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.07	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.31	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.06	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.43	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.21	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.20	PASS





Band38	20MHz	16QAM	37850	50RB#50	21.36	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.16	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.36	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.10	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.09	PASS





O.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	8.65	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	8.96	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.06	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.72	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.58	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.12	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.08	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.70	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.27	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.56	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.16	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.68	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.55	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	8.74	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.07	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.59	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.49	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.03	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.19	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.64	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.43	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.64	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.10	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.72	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.39	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	8.40	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	8.39	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	8.41	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.40	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	8.40	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	8.40	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	8.40	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.40	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	8.41	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	8.40	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	8.40	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.39	13	PASS



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Scan code to check authenticity

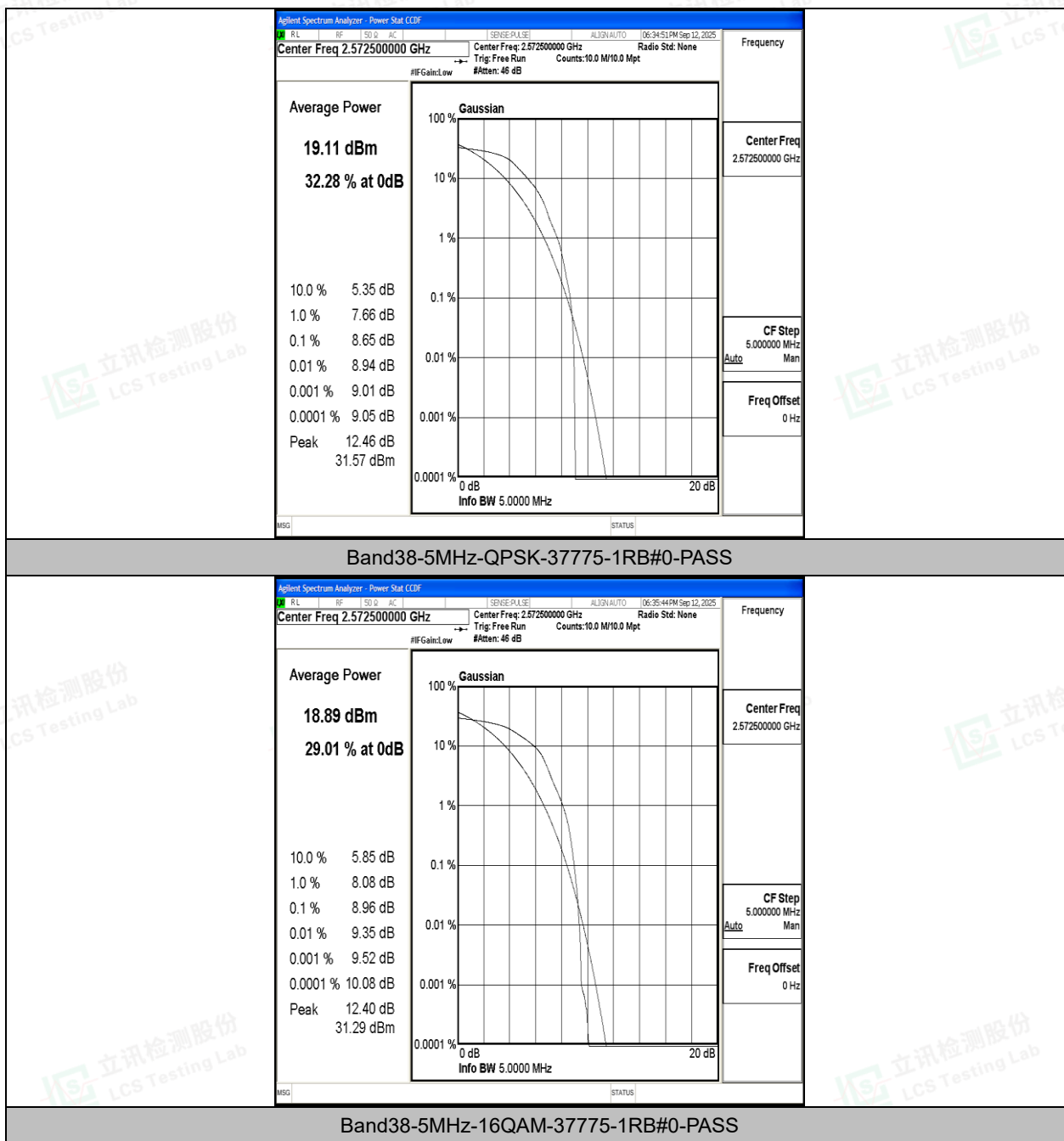


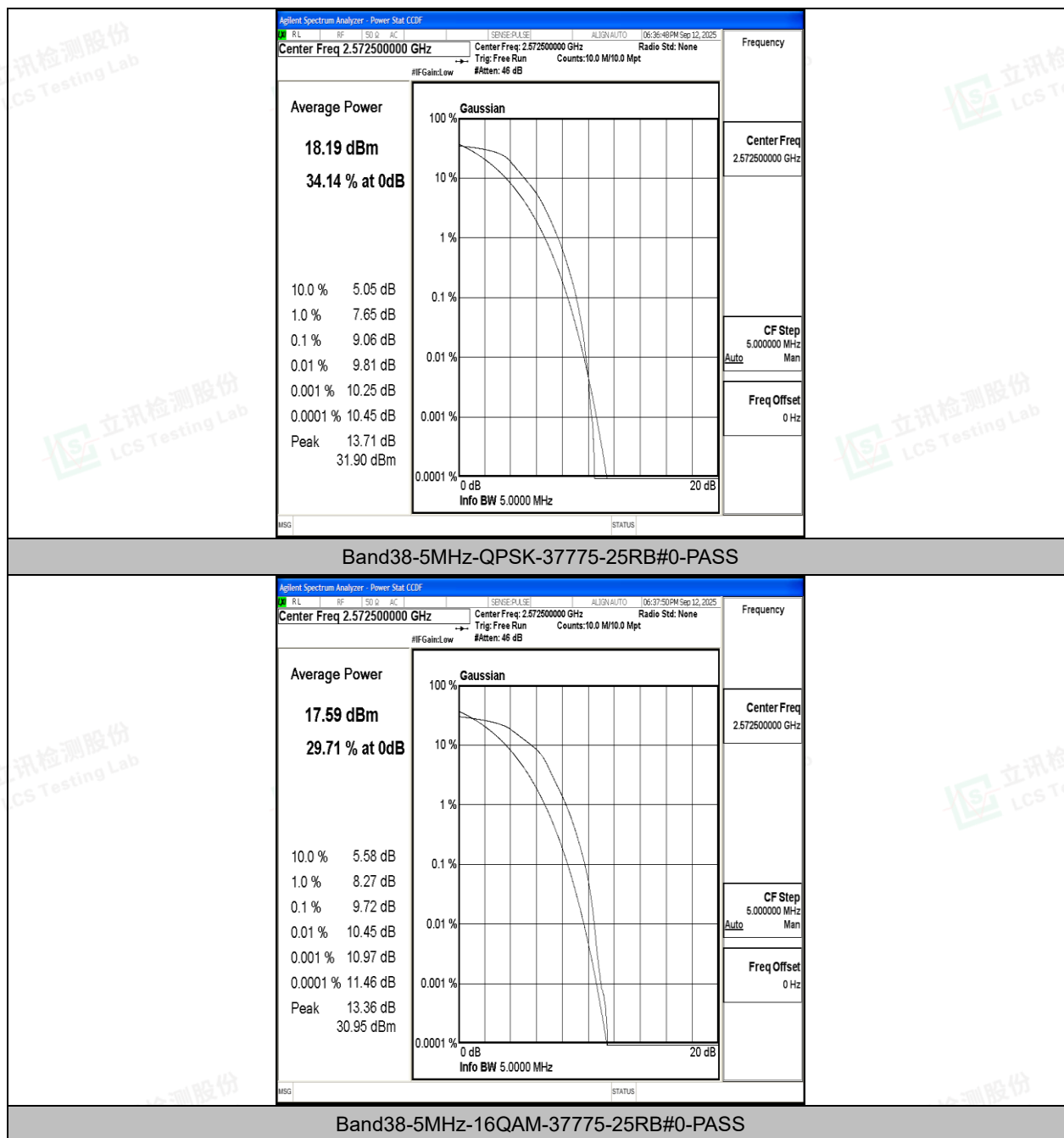
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Band38	20MHz	16QAM	37850	100RB#0	8.40	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.39	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	8.38	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.38	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.38	13	PASS
Band38	20MHz	QPSK	38150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

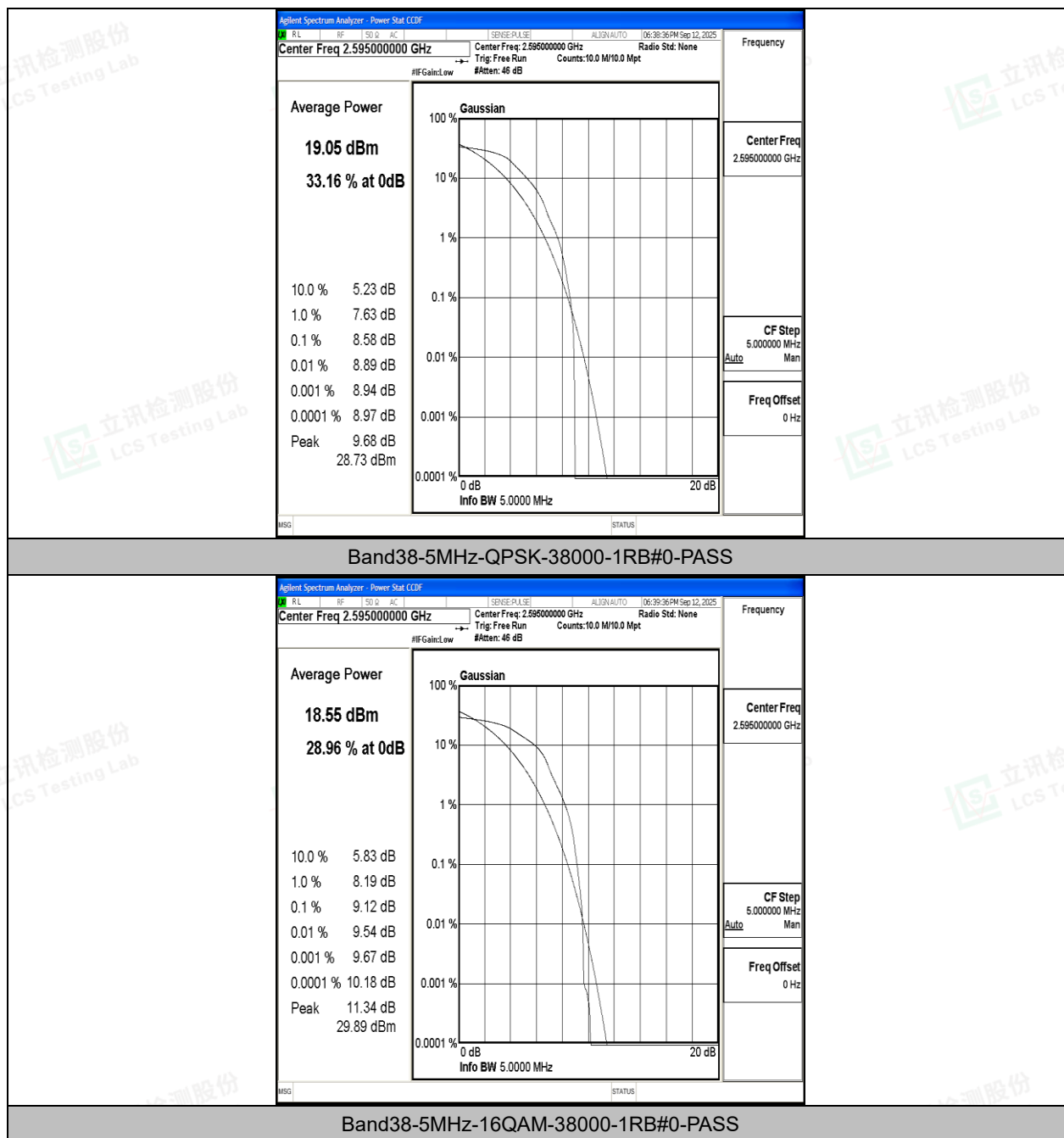


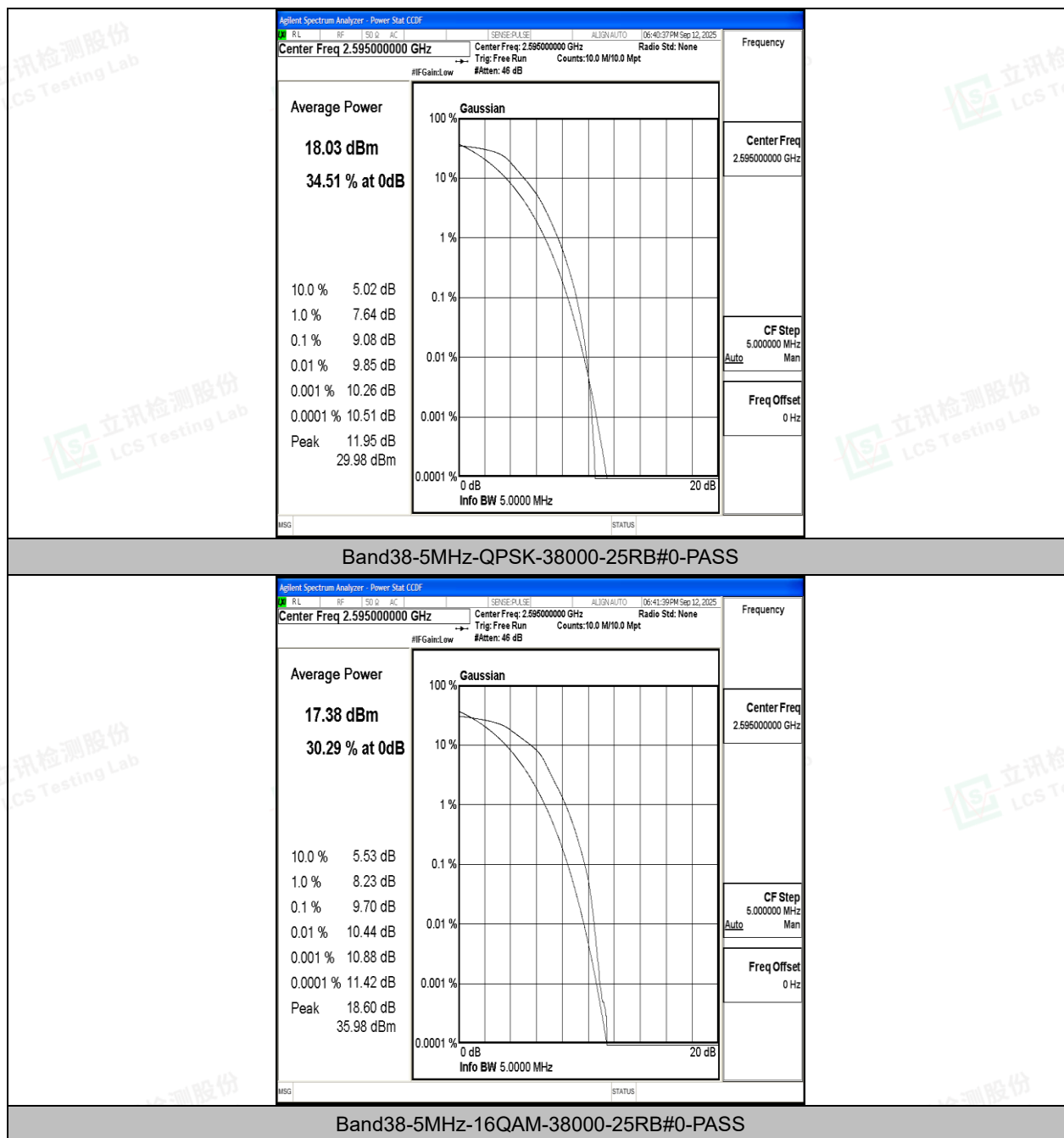


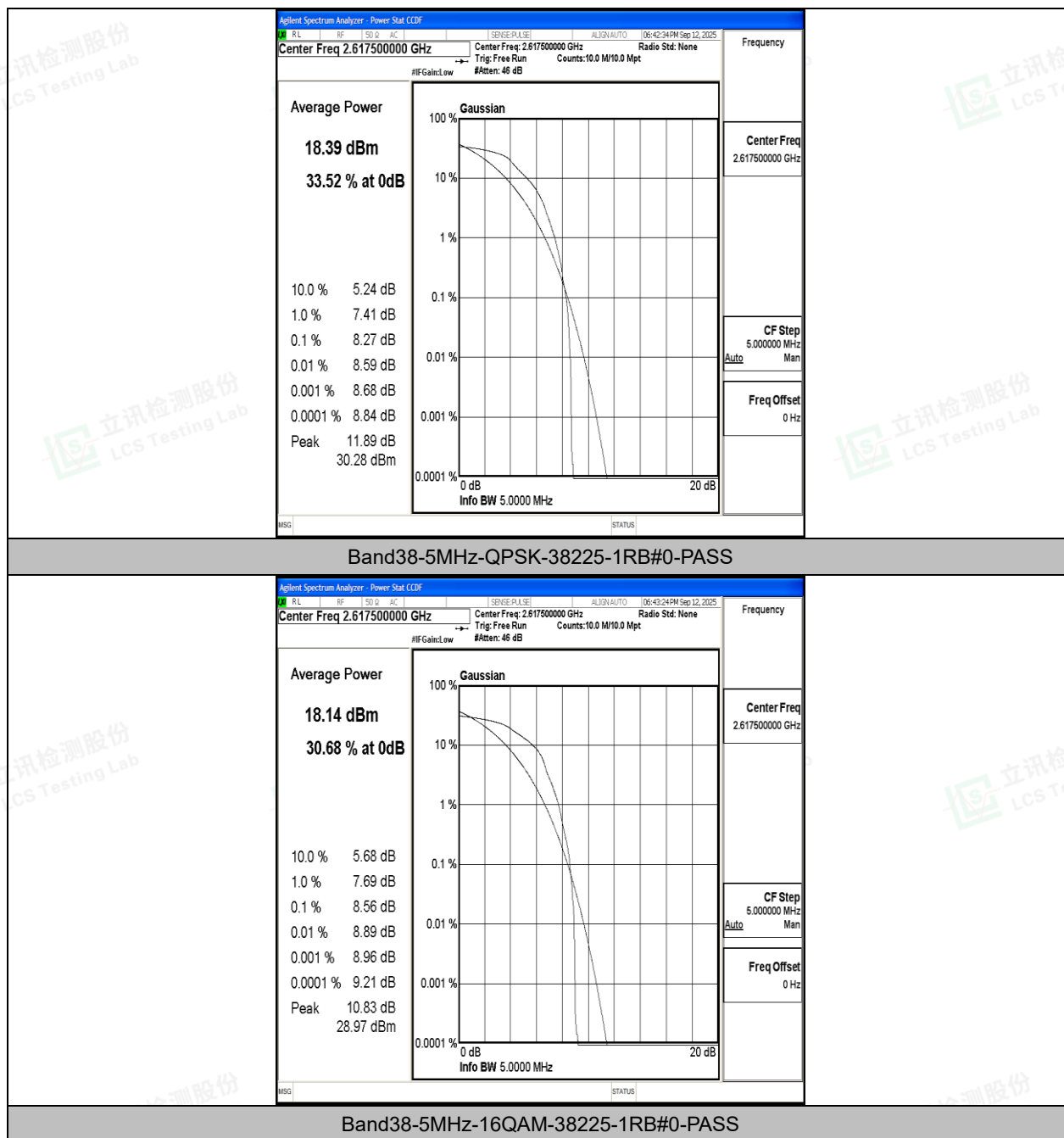
Test Graphs

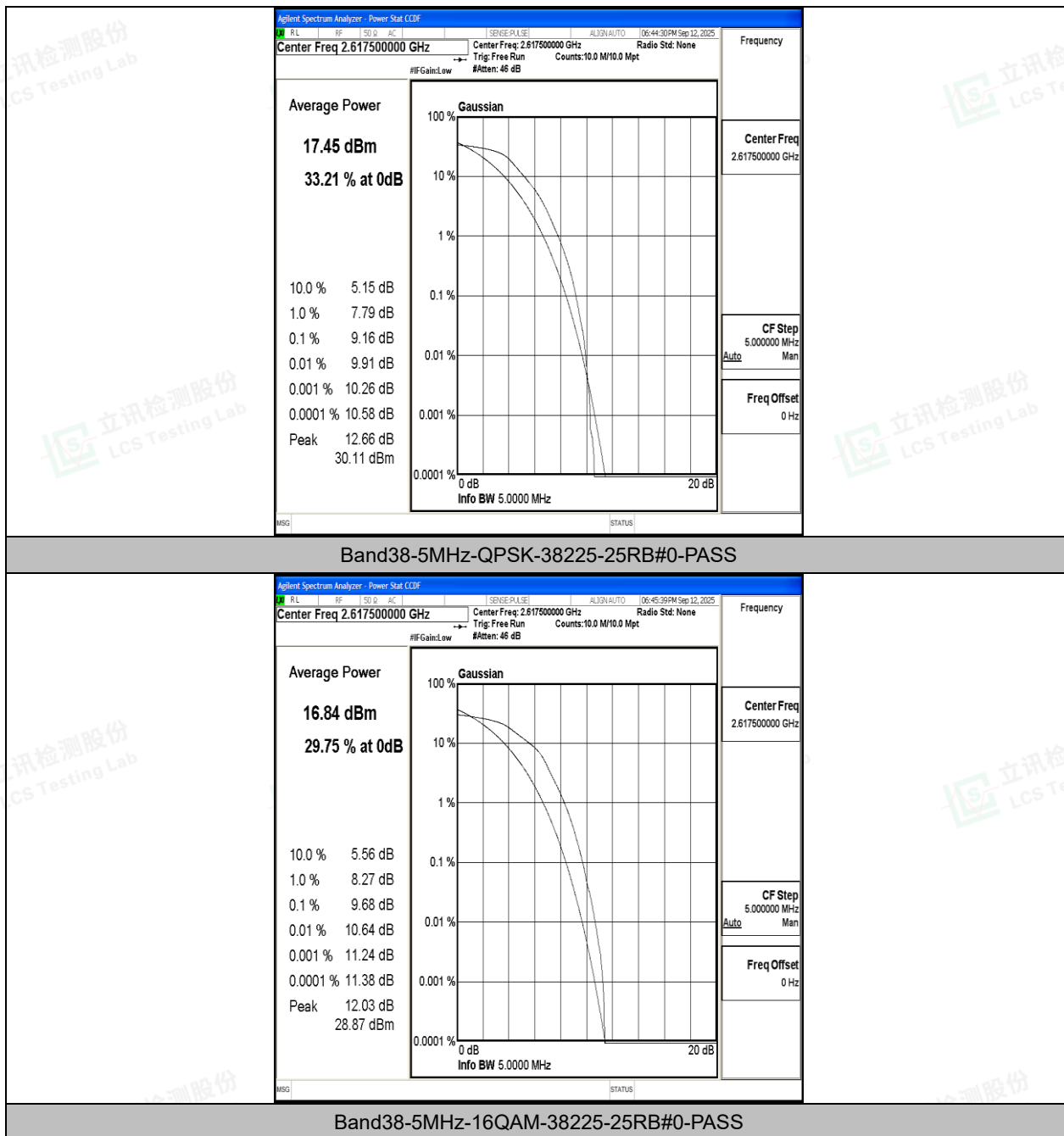


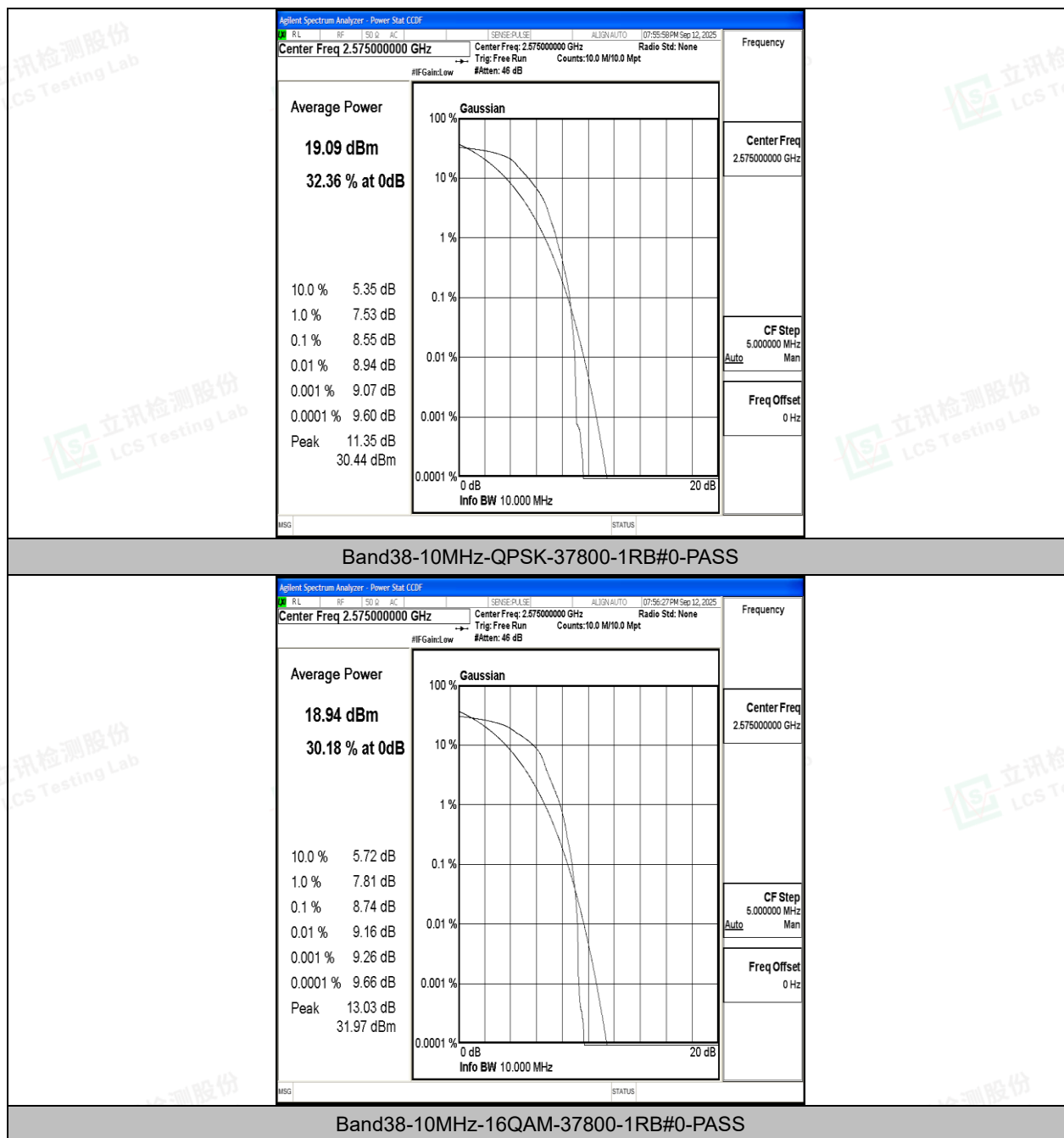


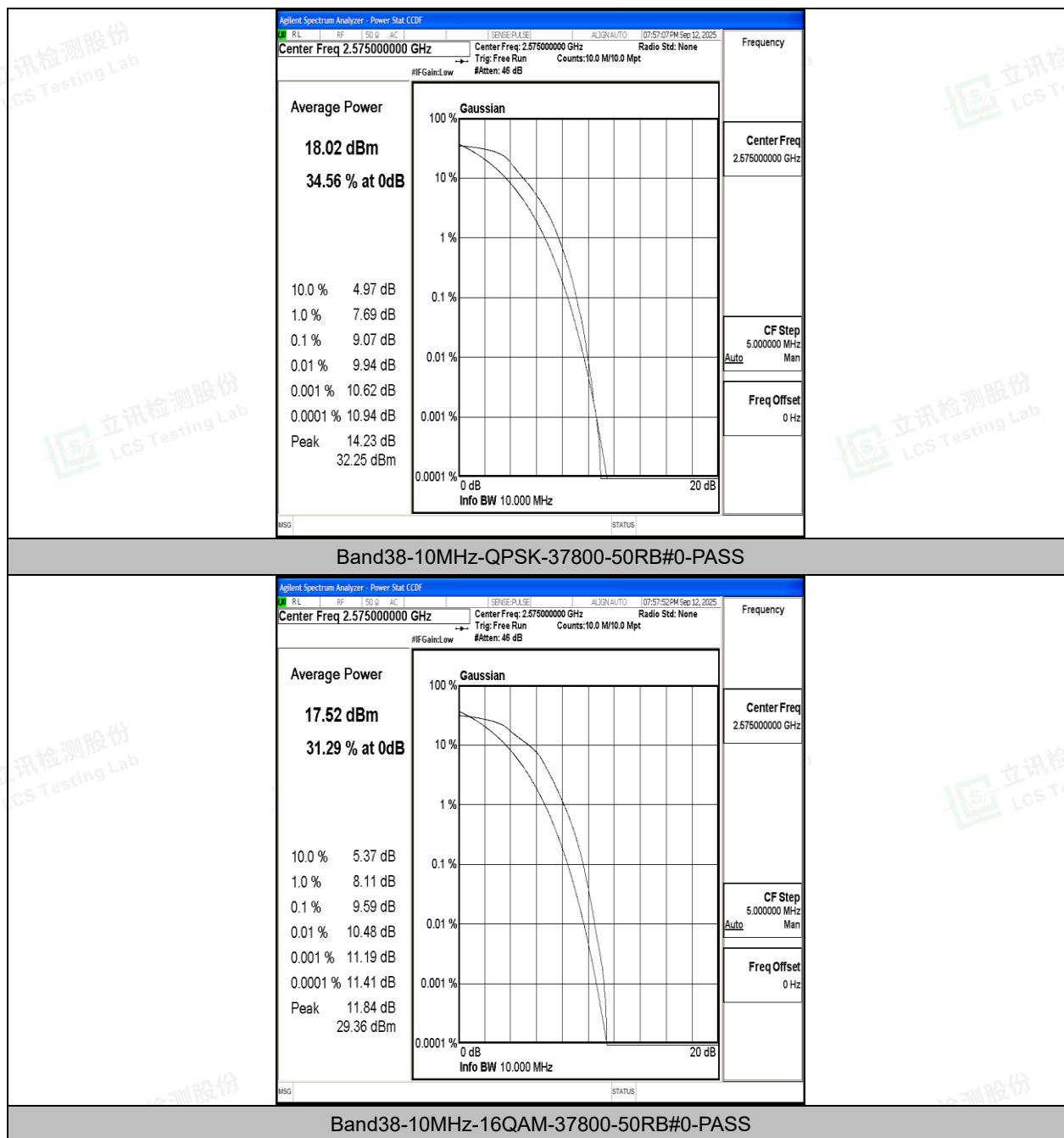


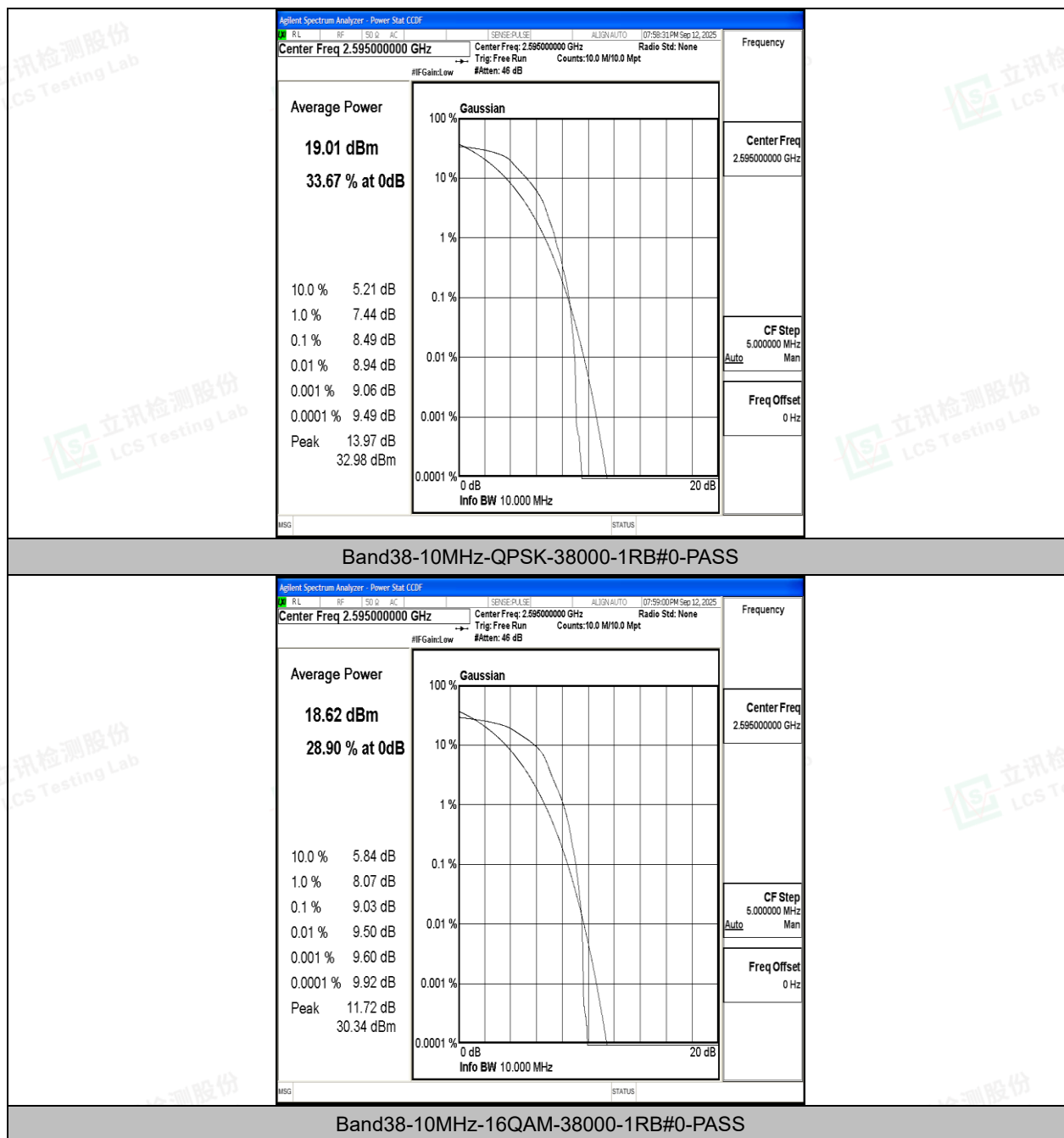


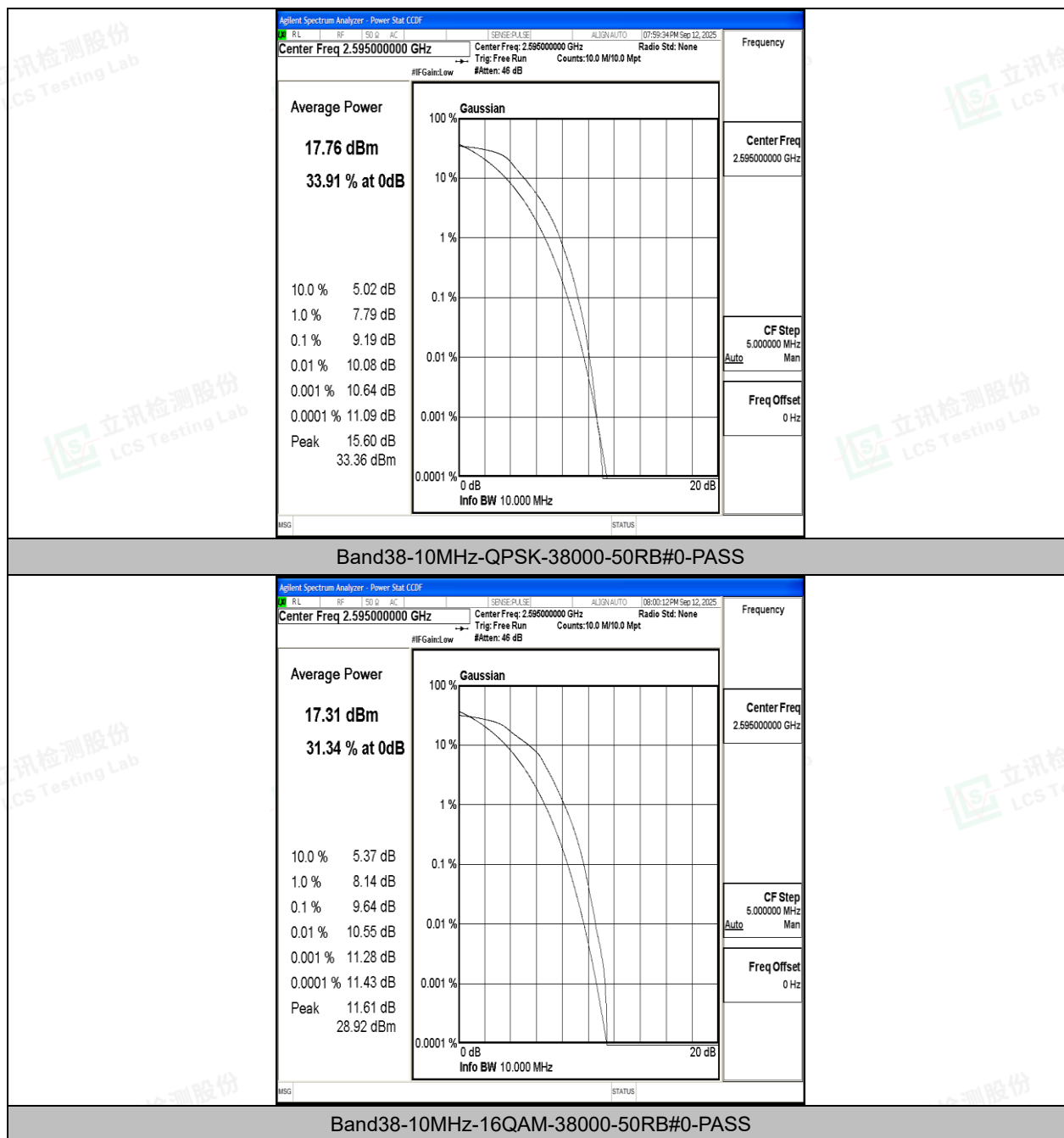


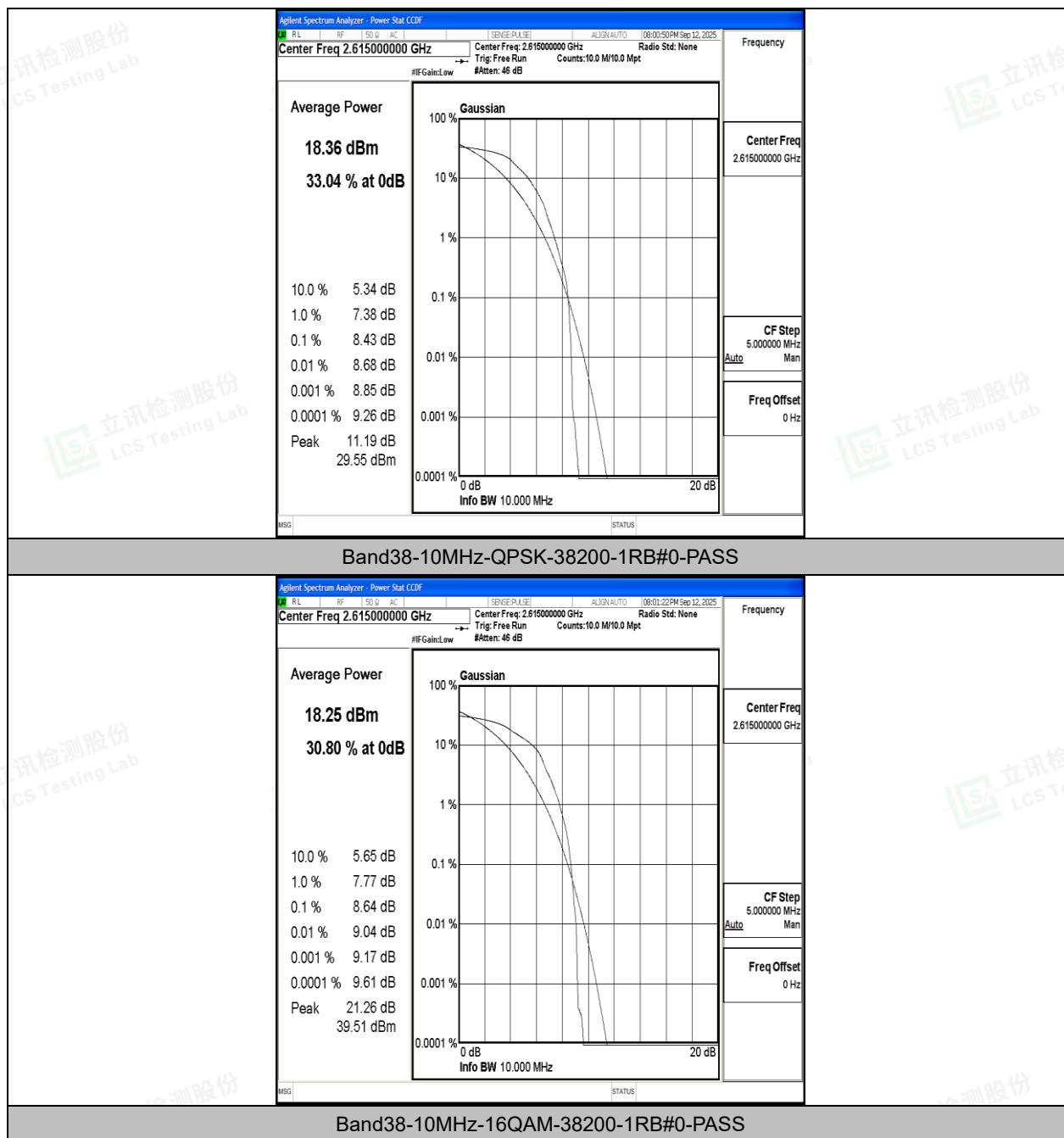


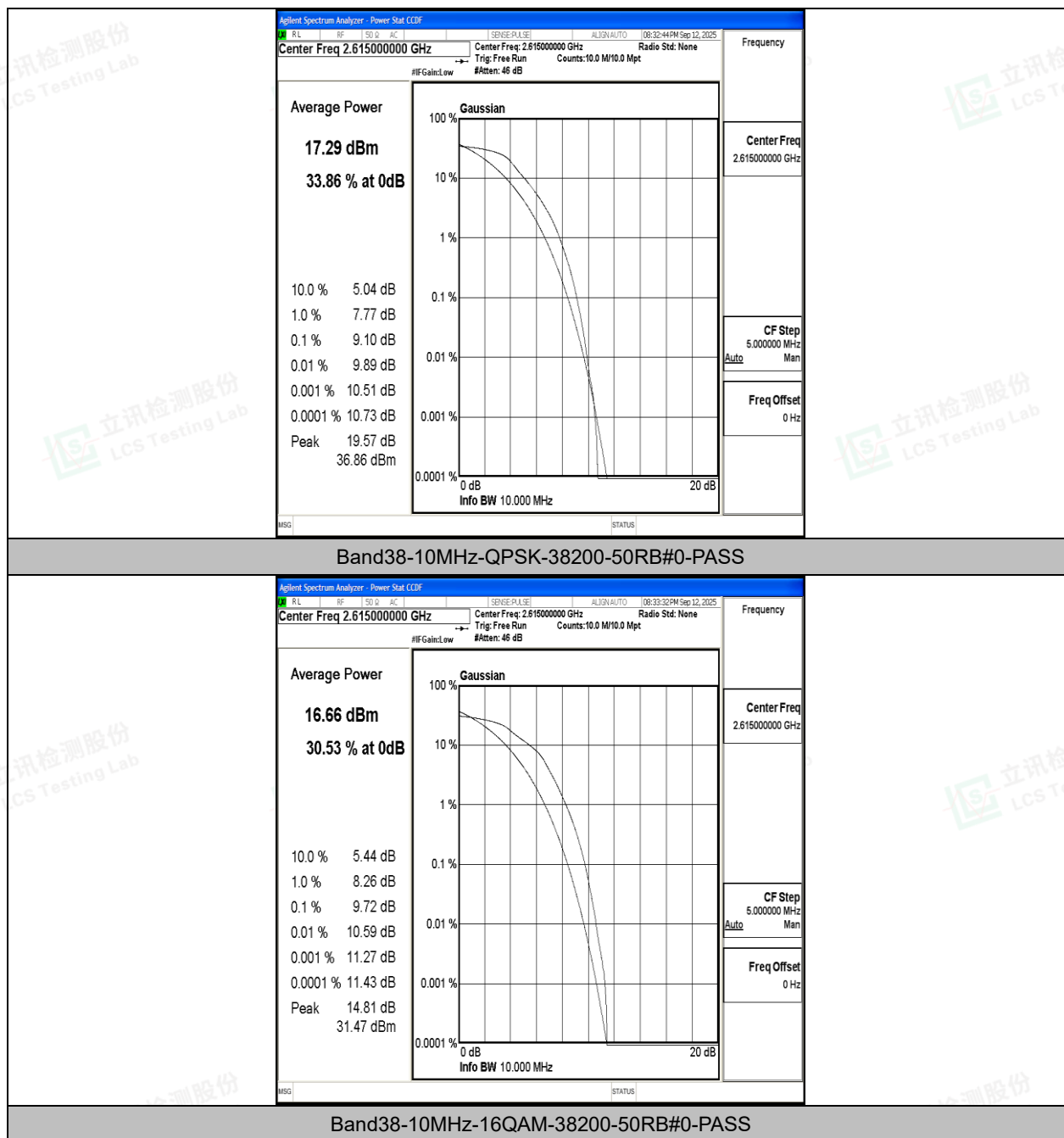


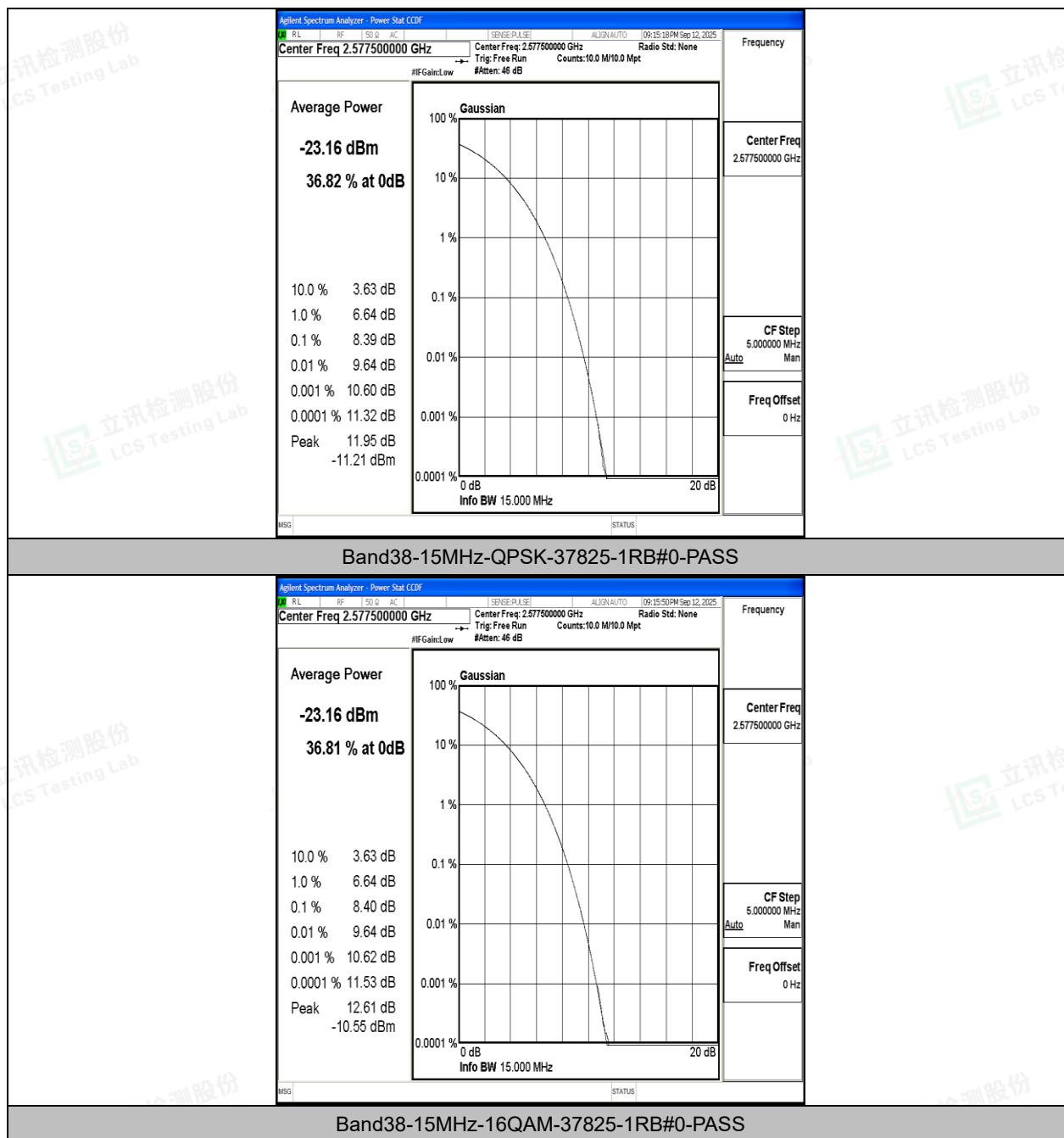


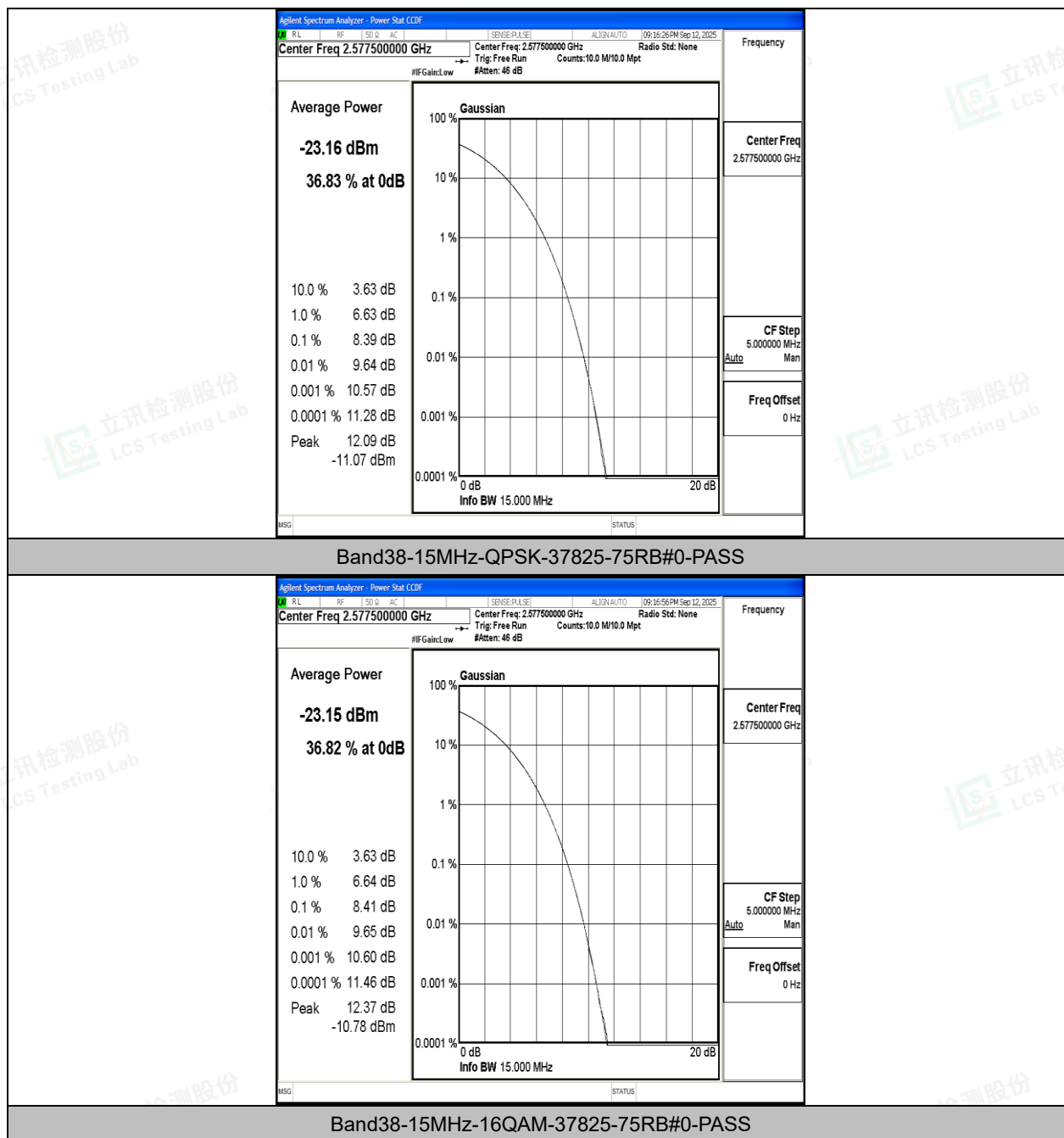


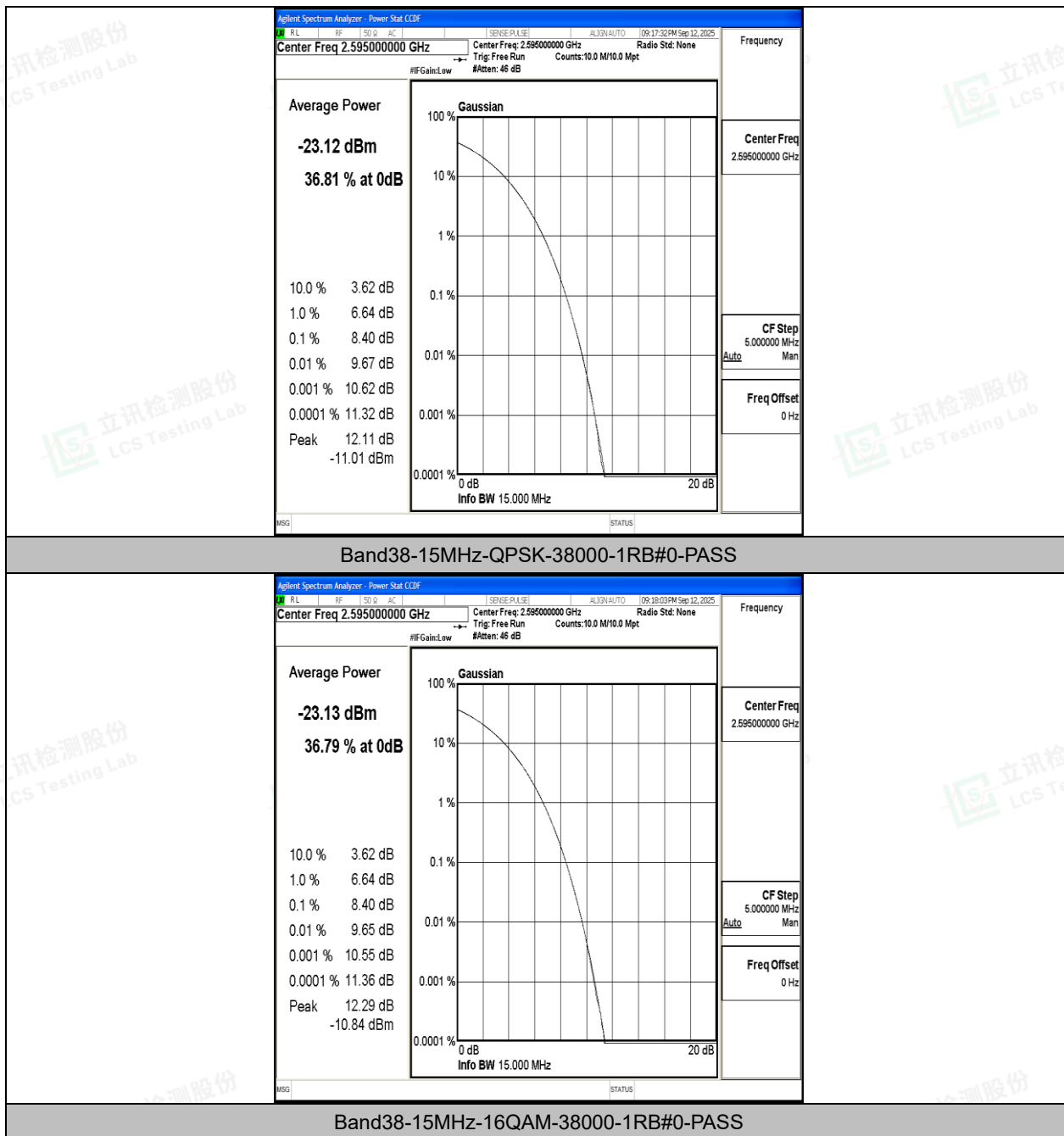


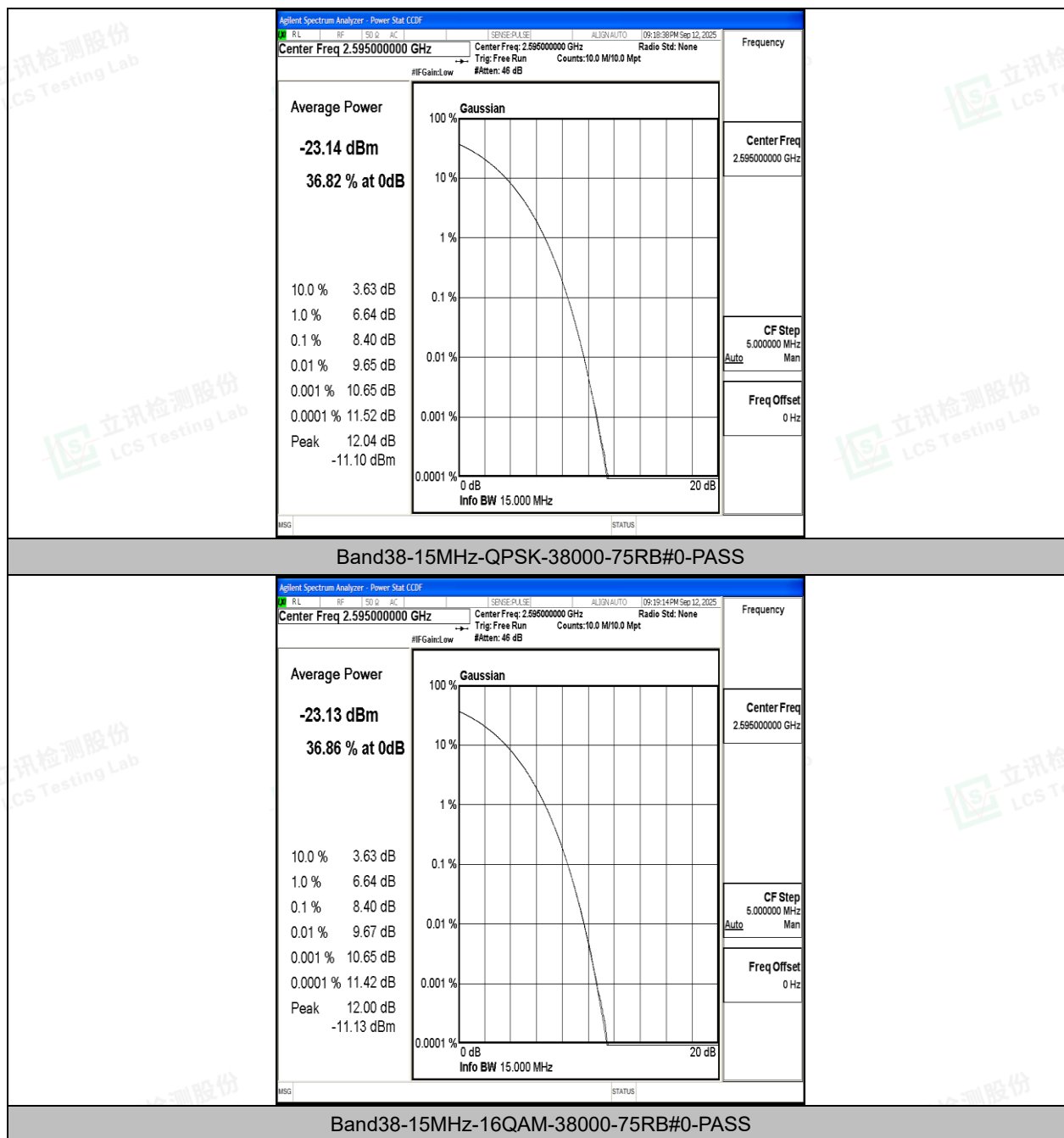


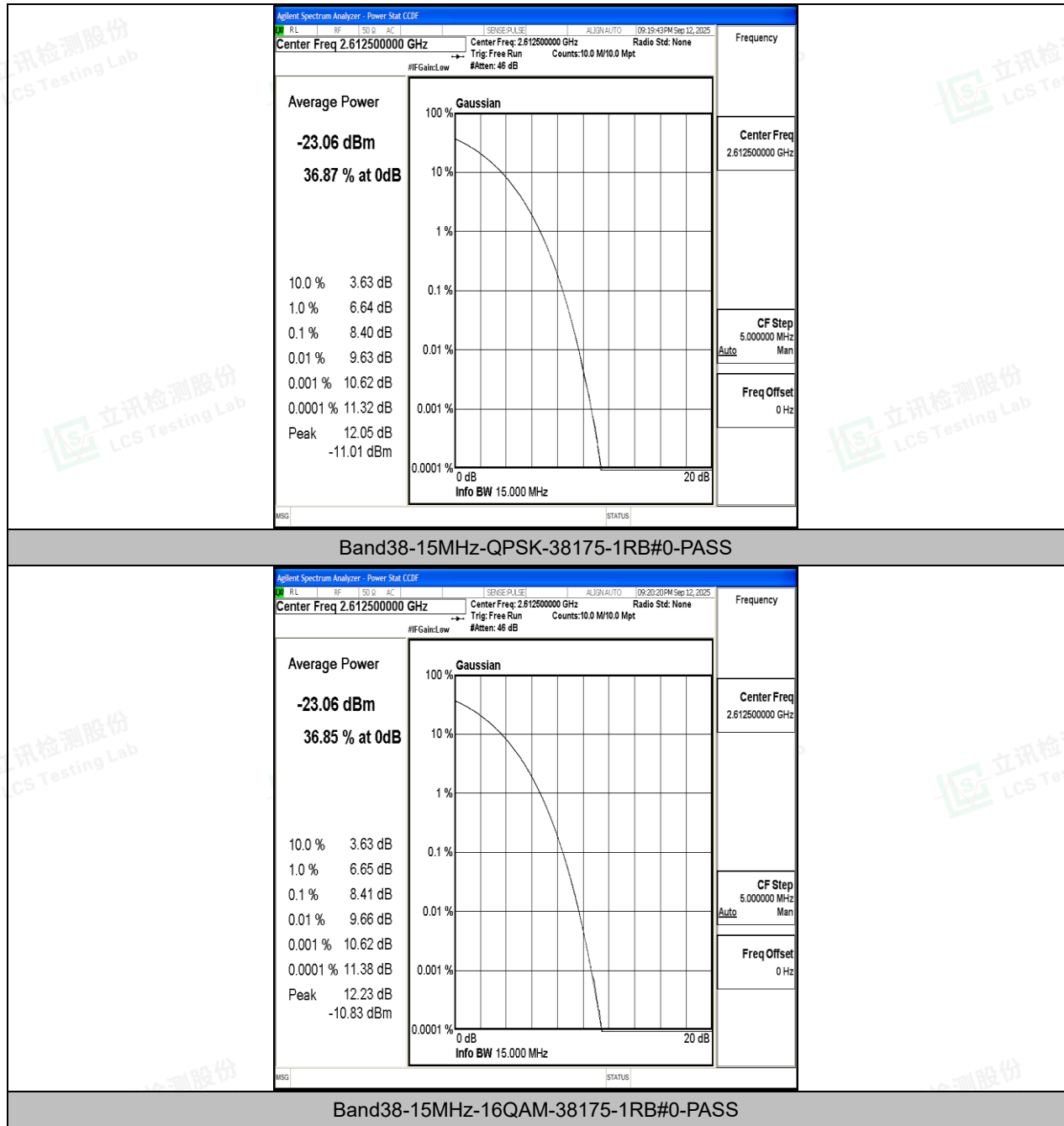


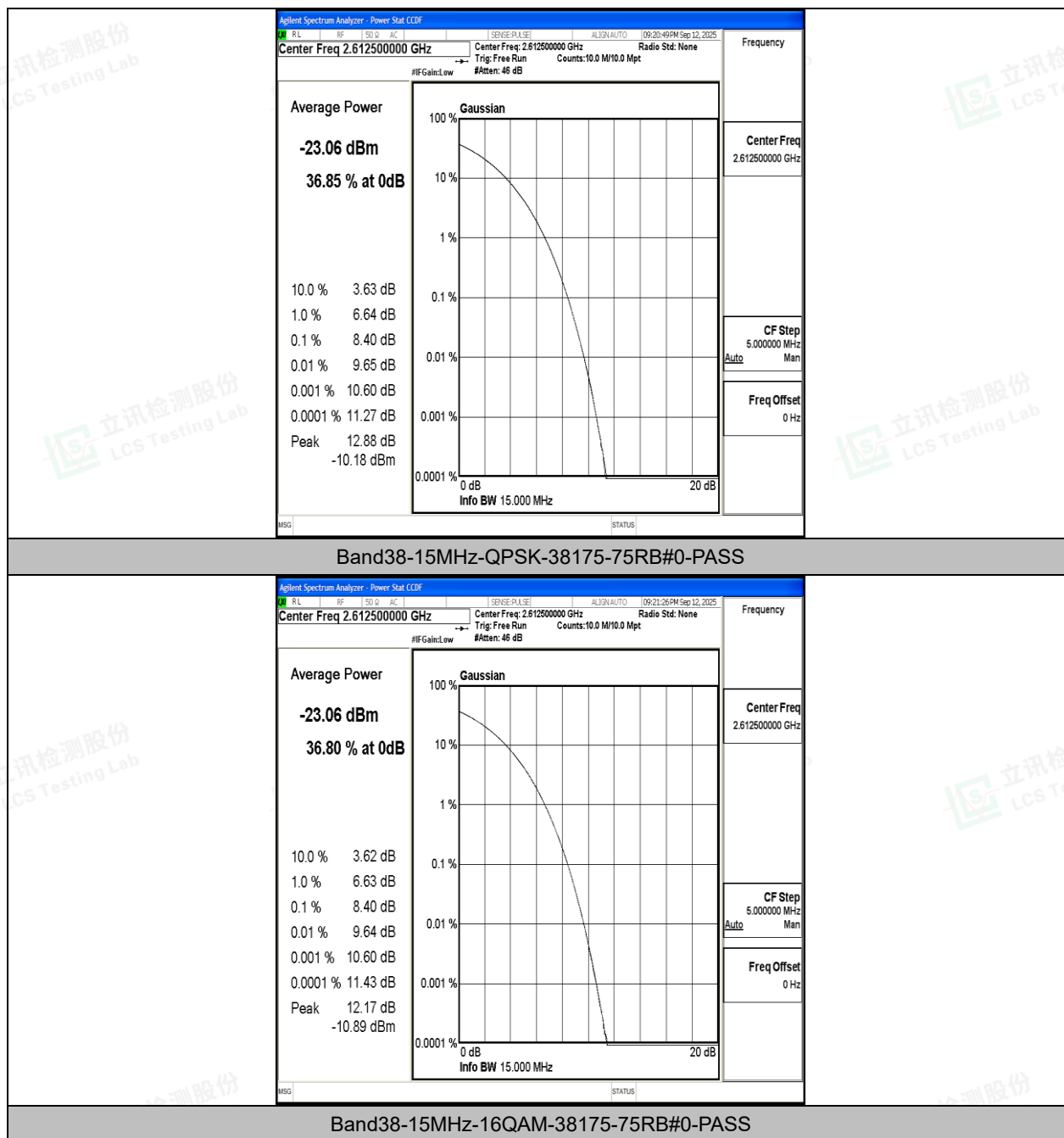


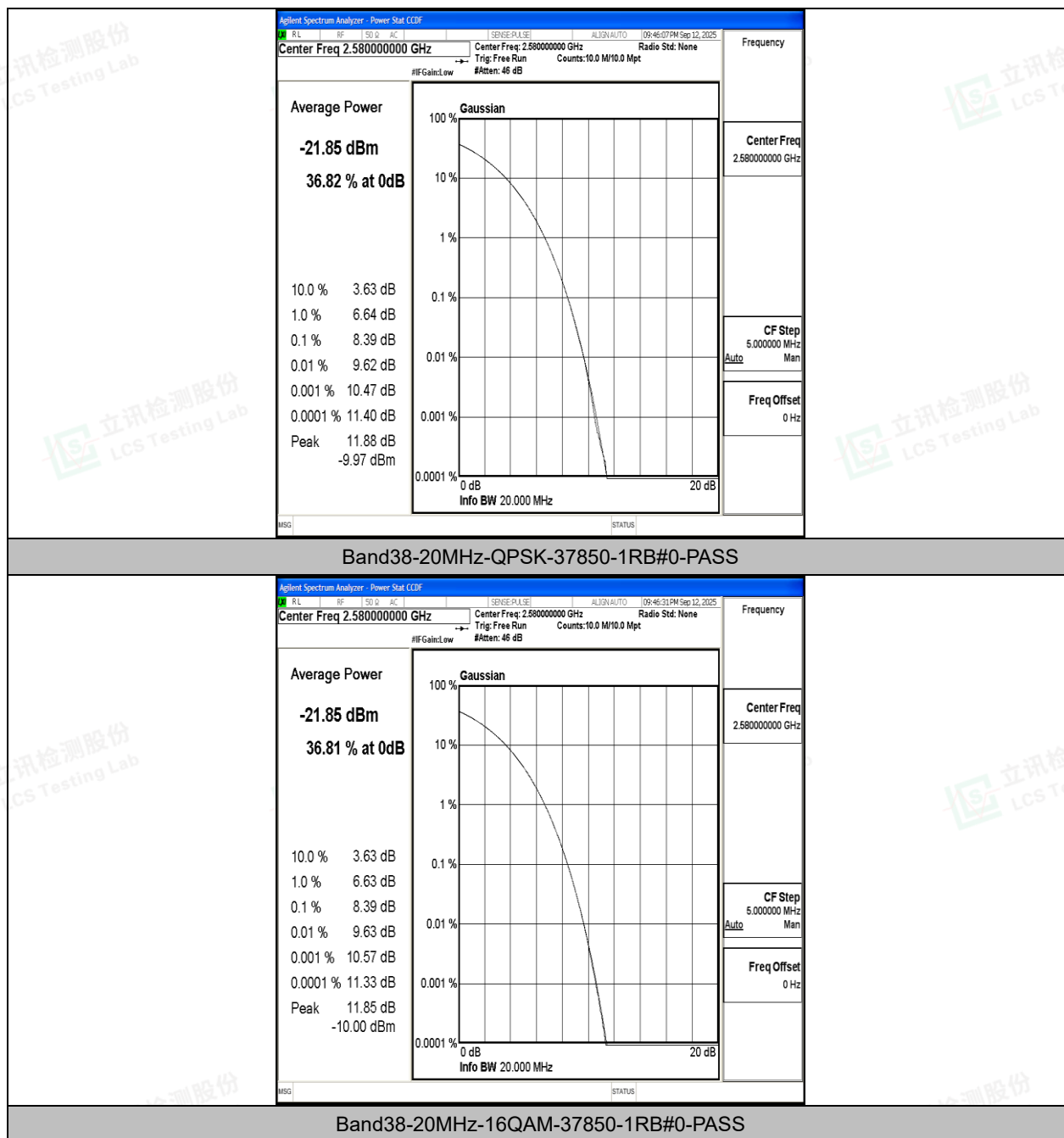


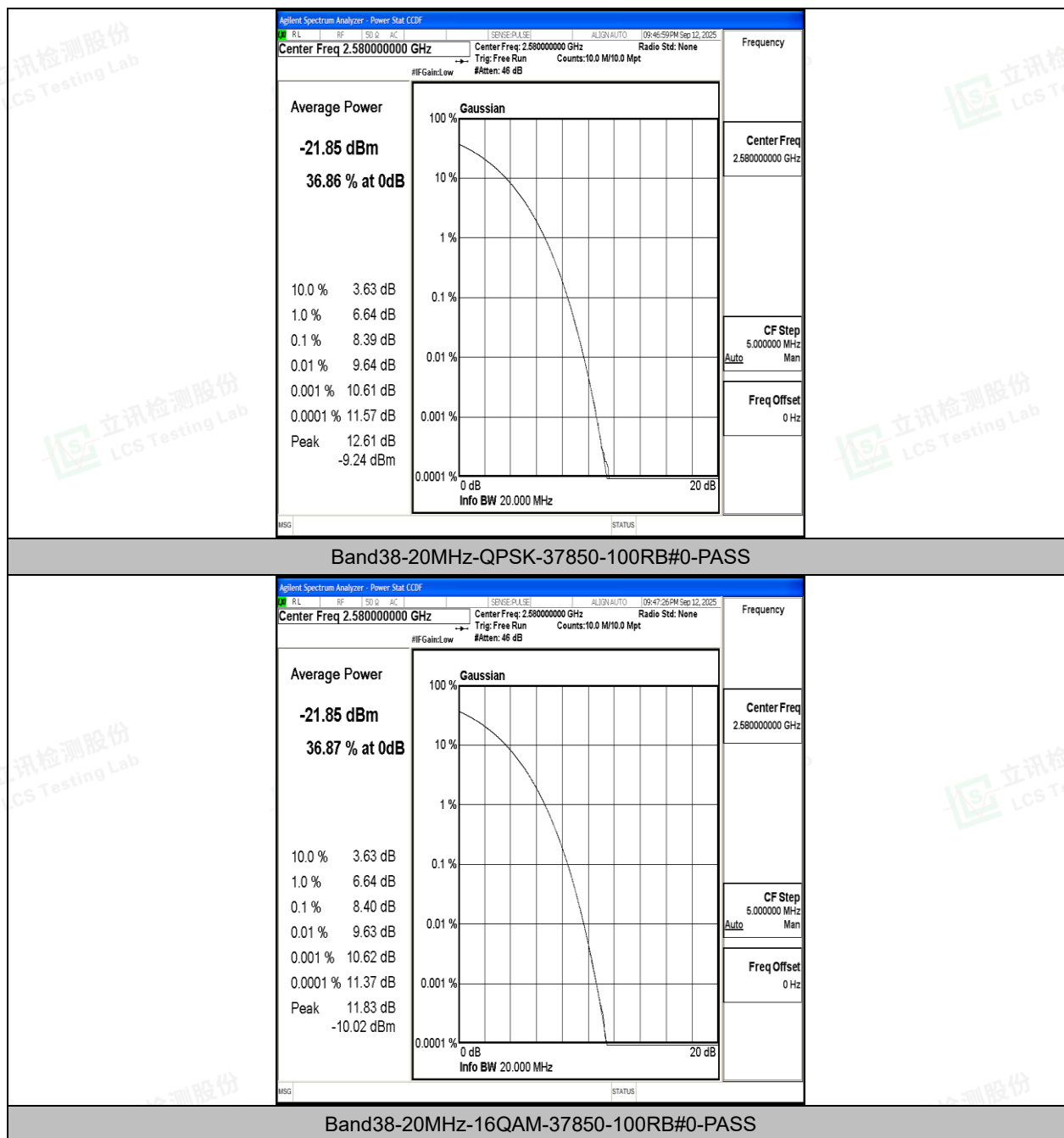


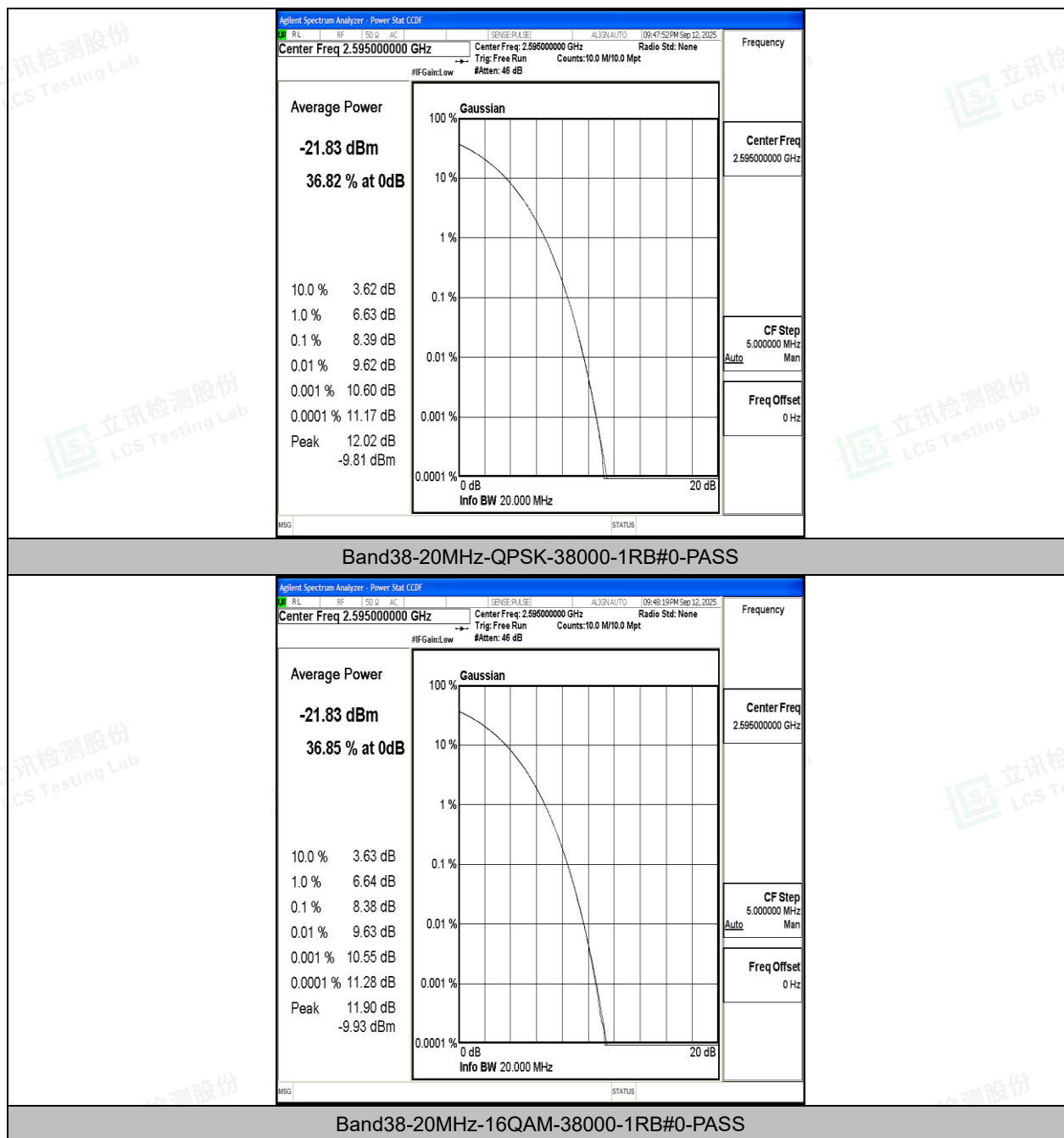


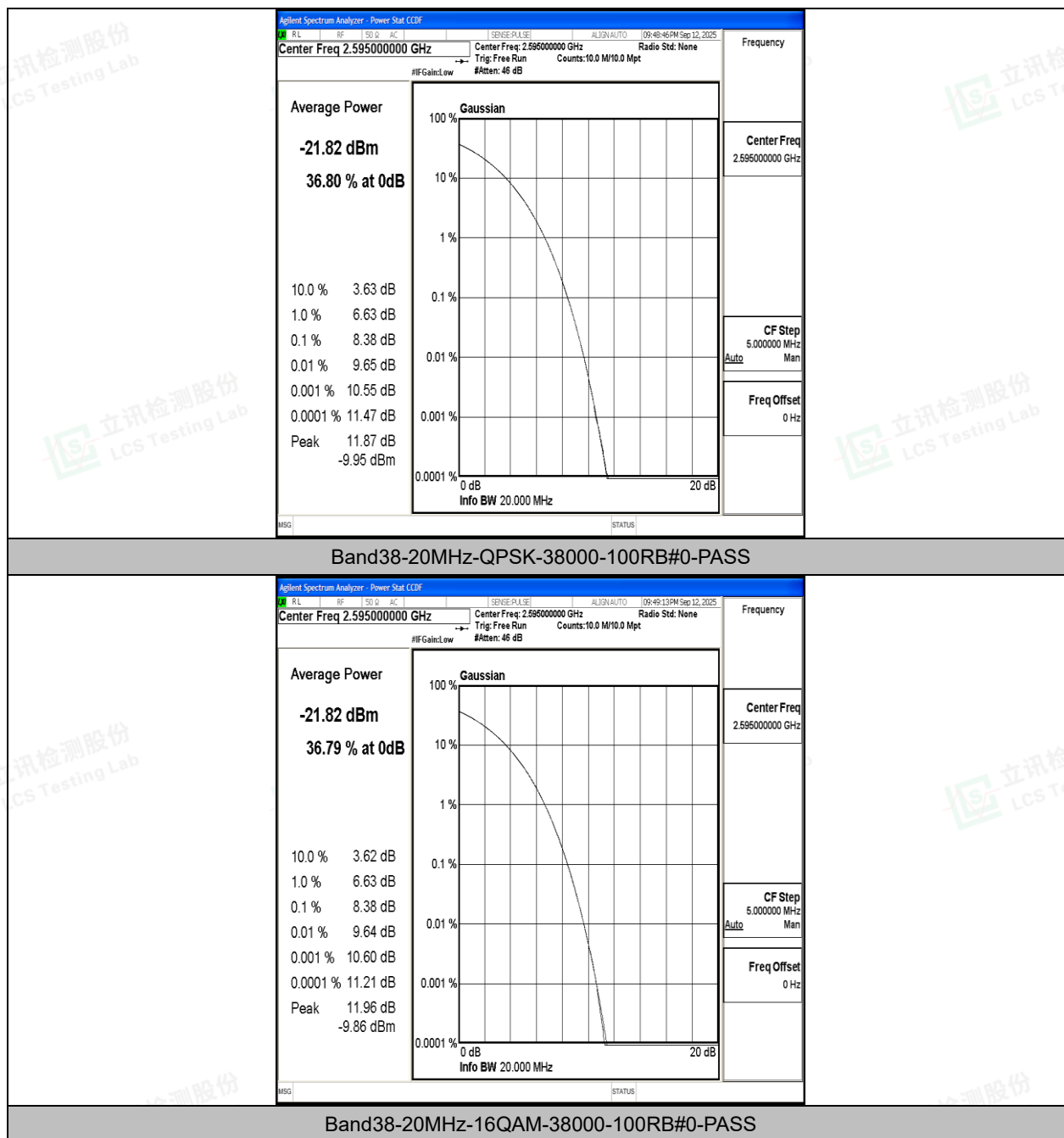


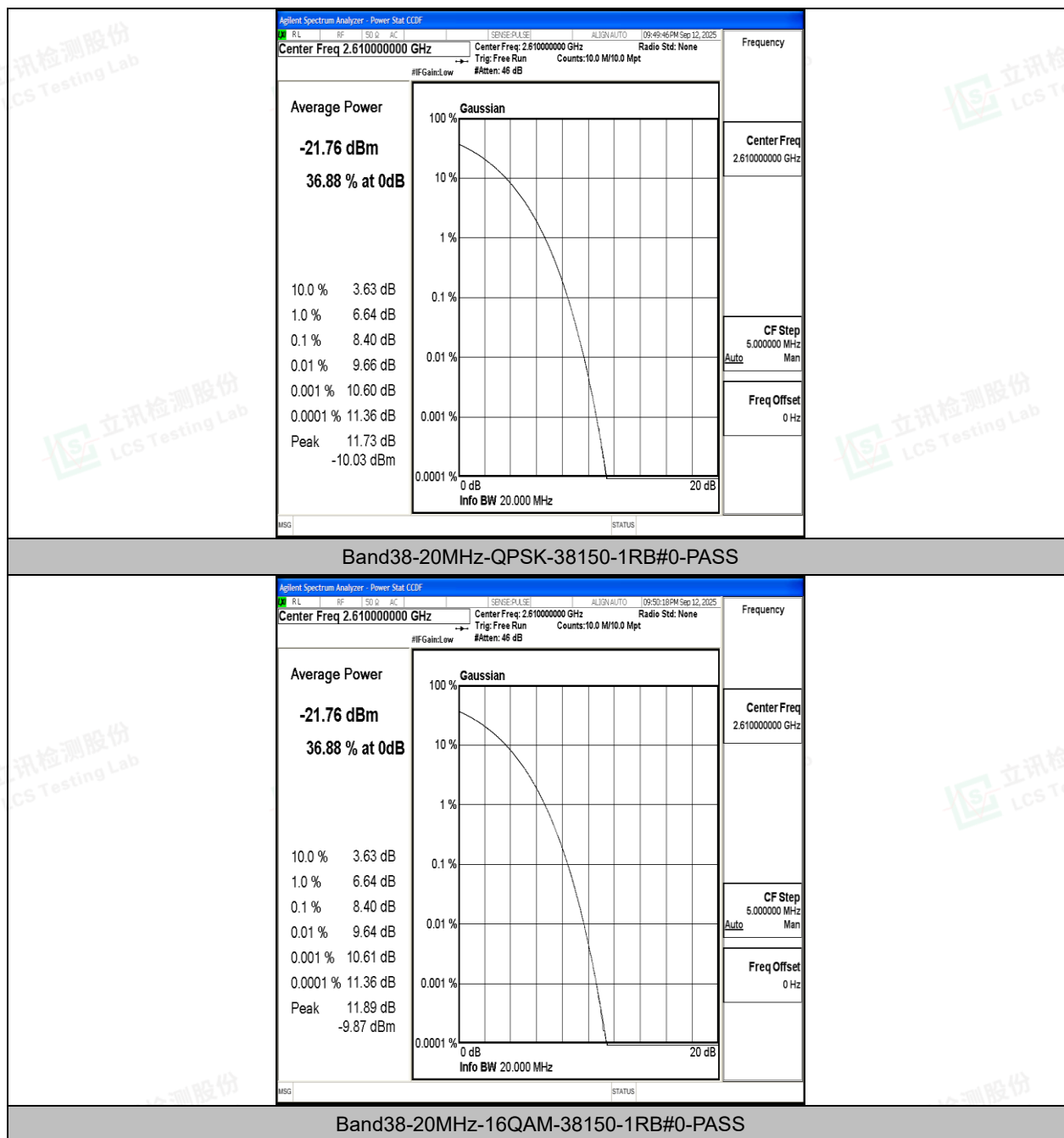


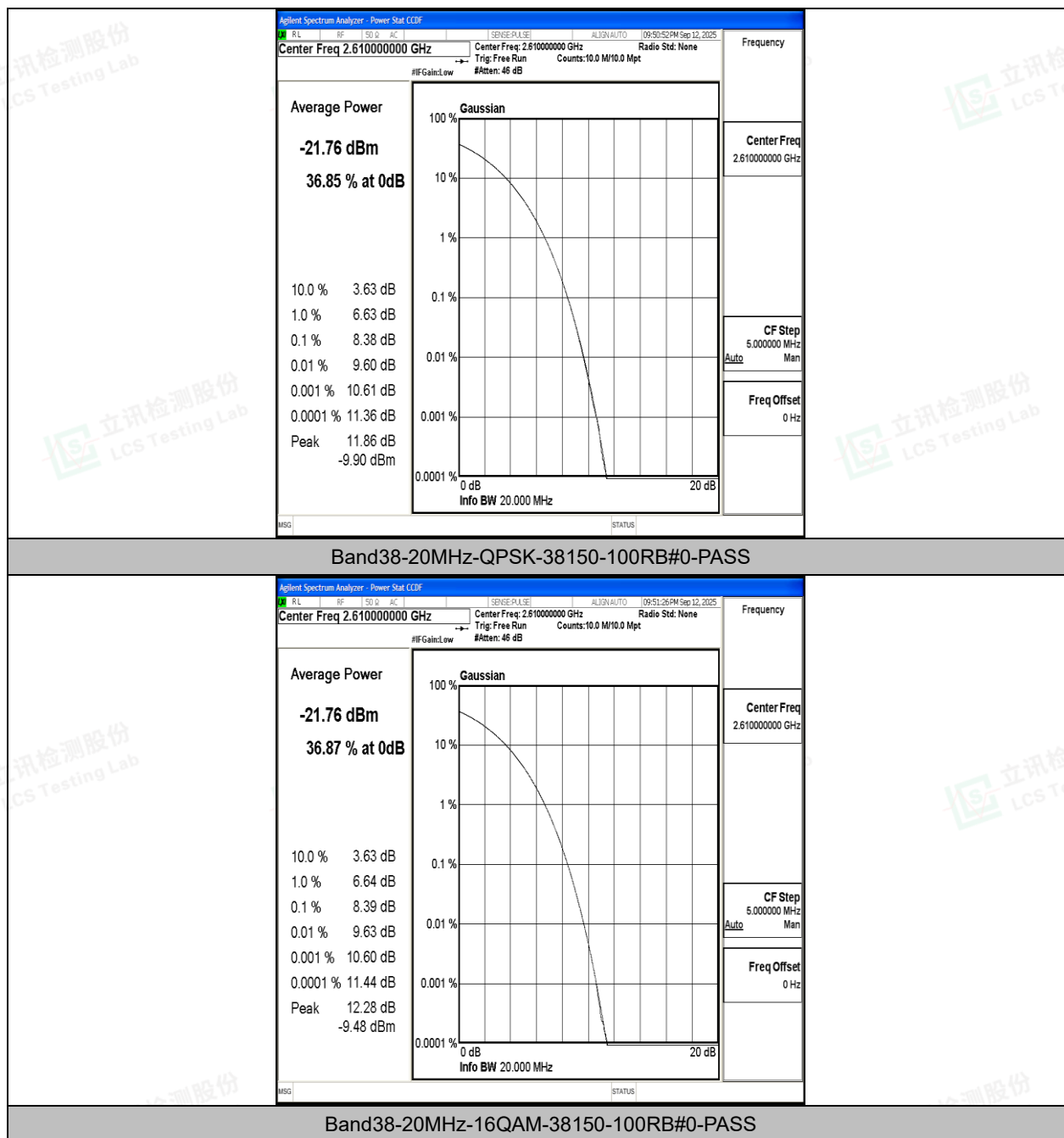














O.3 26dB Bandwidth and Occupied Bandwidth

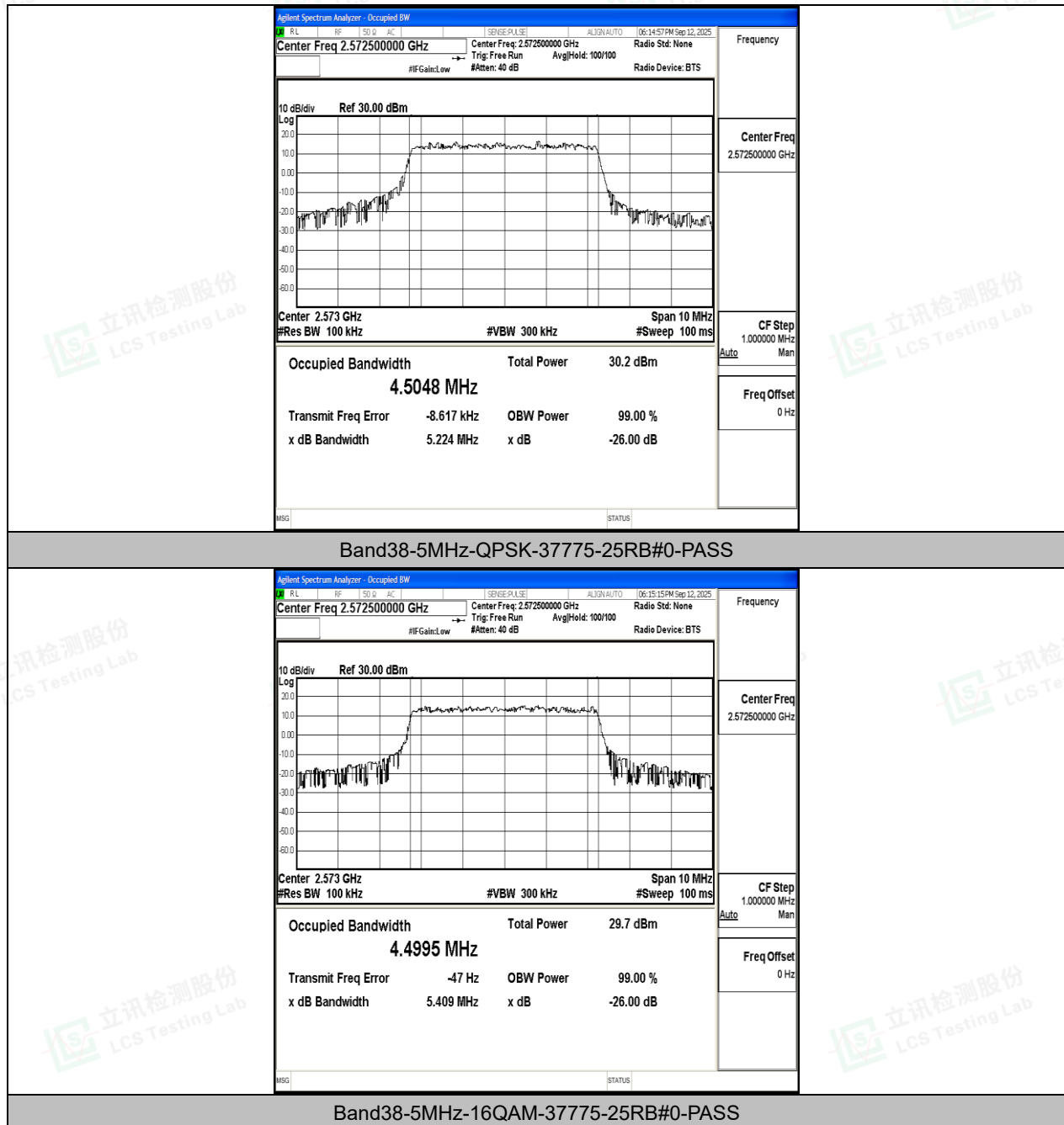
Test Result

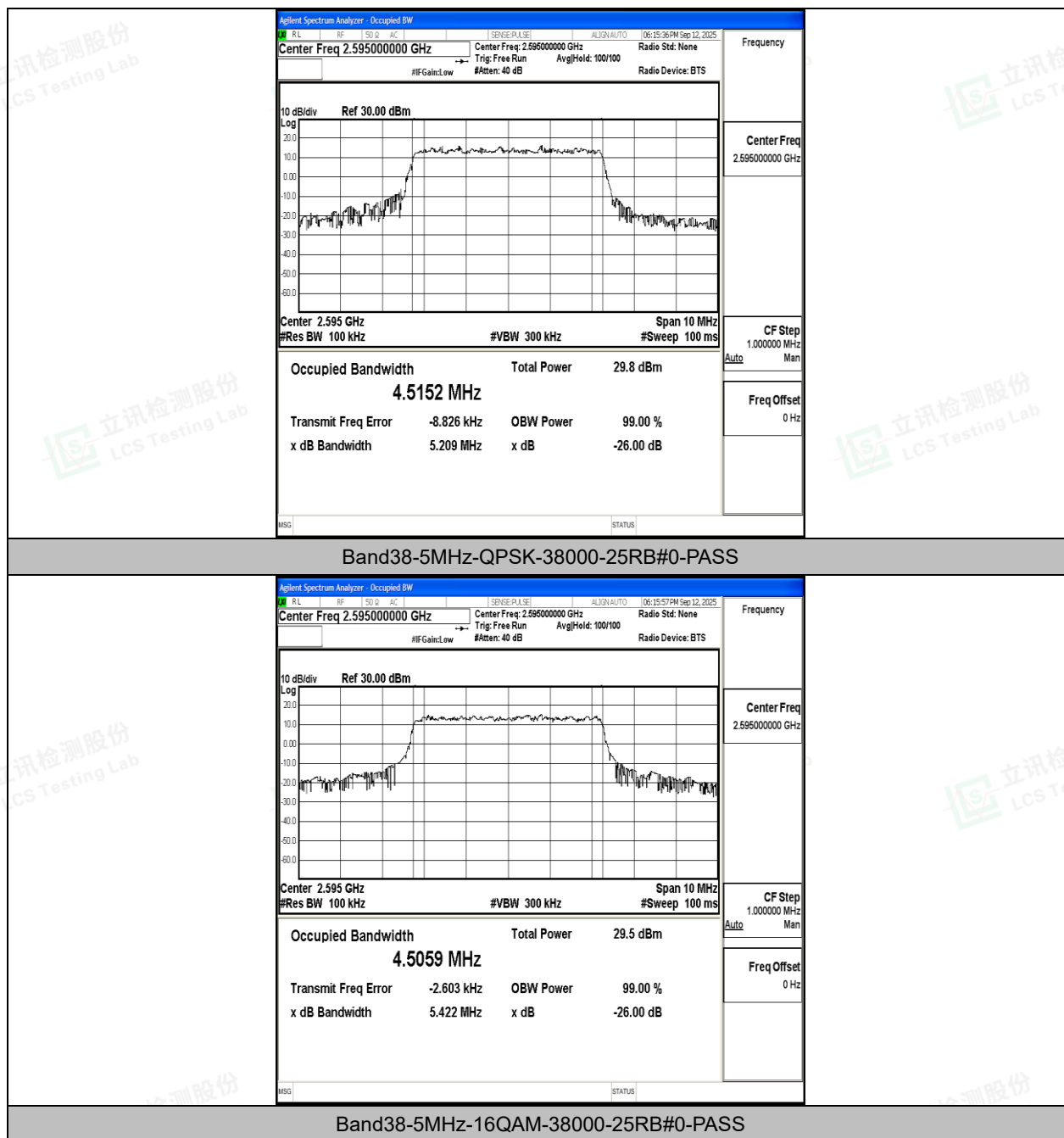
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5048	5.224	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4995	5.409	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5152	5.209	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5059	5.422	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4967	5.083	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4989	5.260	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9963	10.16	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9940	10.15	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9777	10.12	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9924	10.15	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0009	10.28	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9977	11.15	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	15.19	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.495	15.15	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.535	15.59	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.495	15.49	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.461	15.81	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.520	16.56	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.990	20.40	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.011	20.16	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.914	19.70	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.968	20.21	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.999	19.35	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.992	20.07	PASS

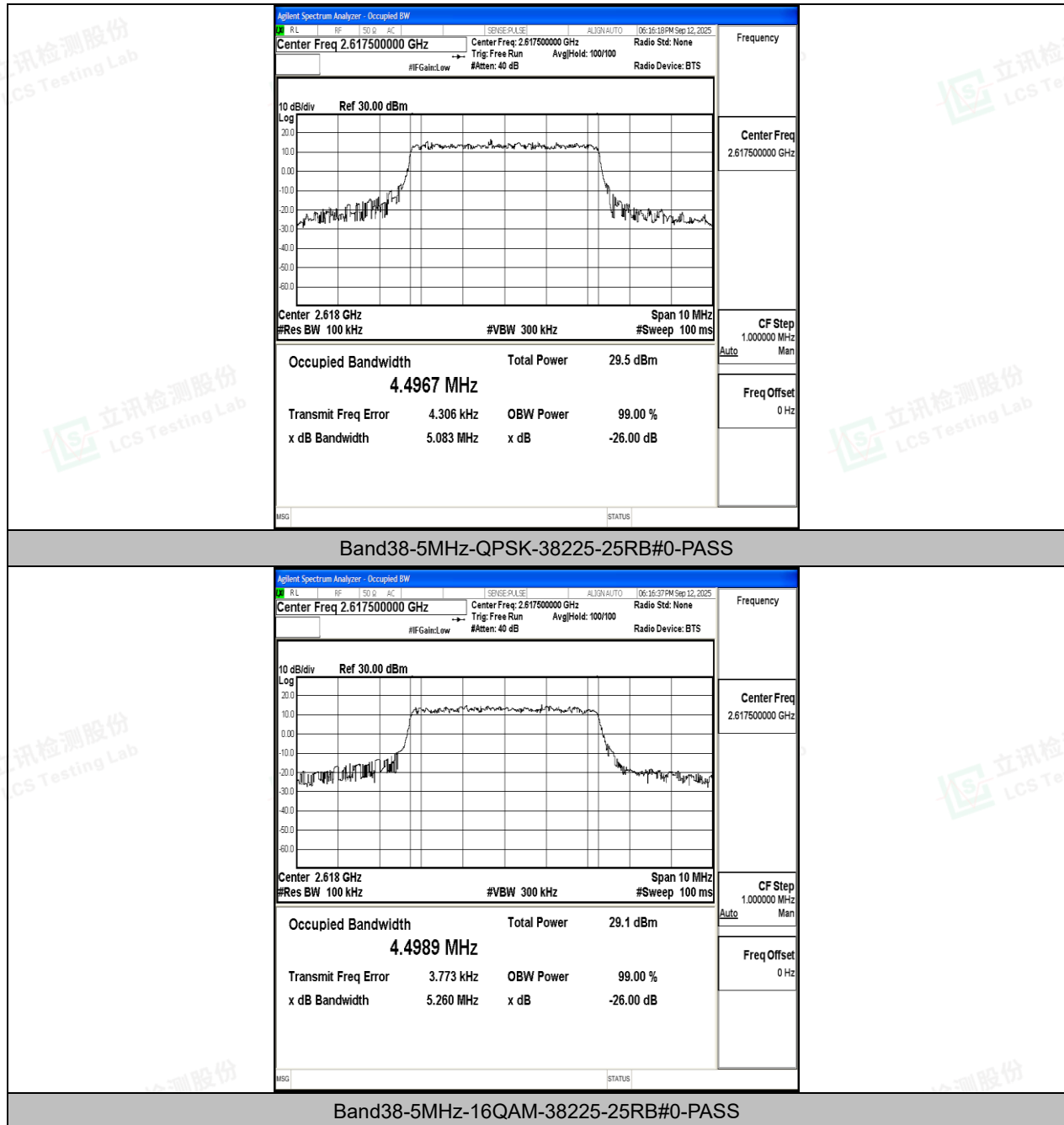


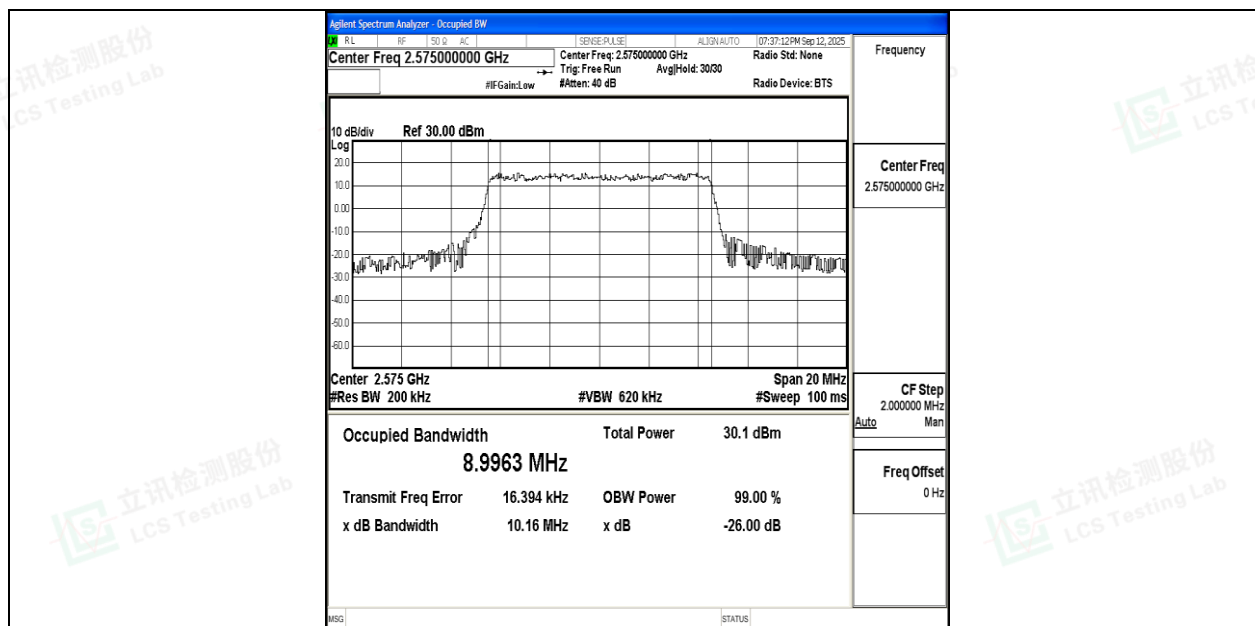


Test Graphs

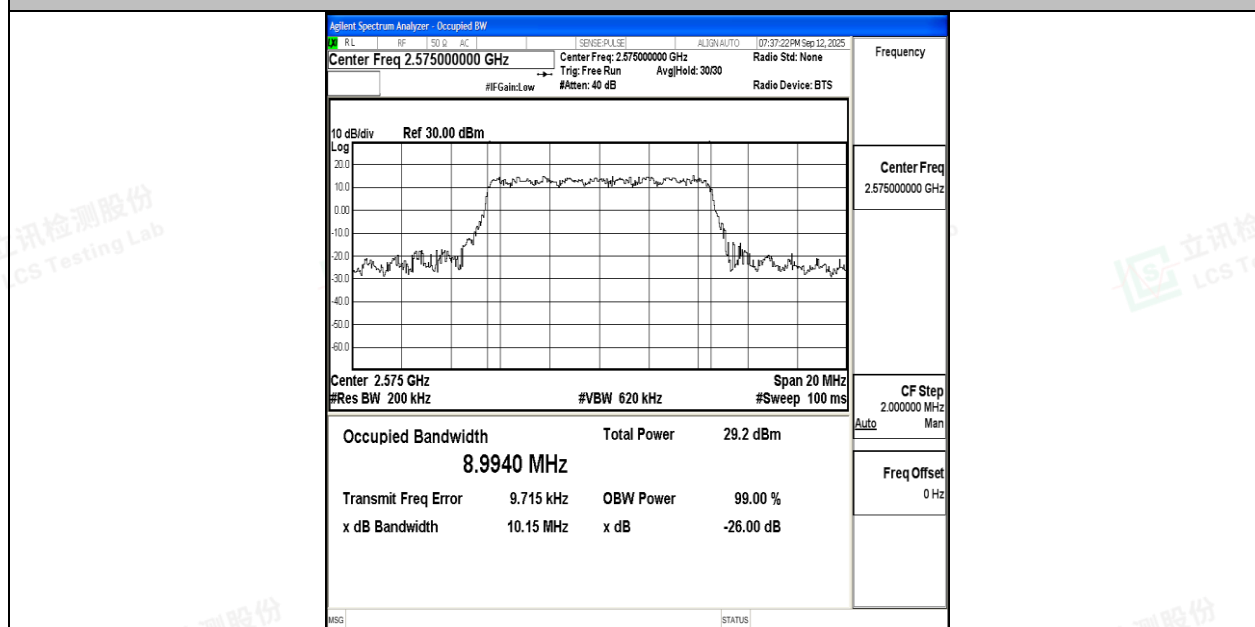






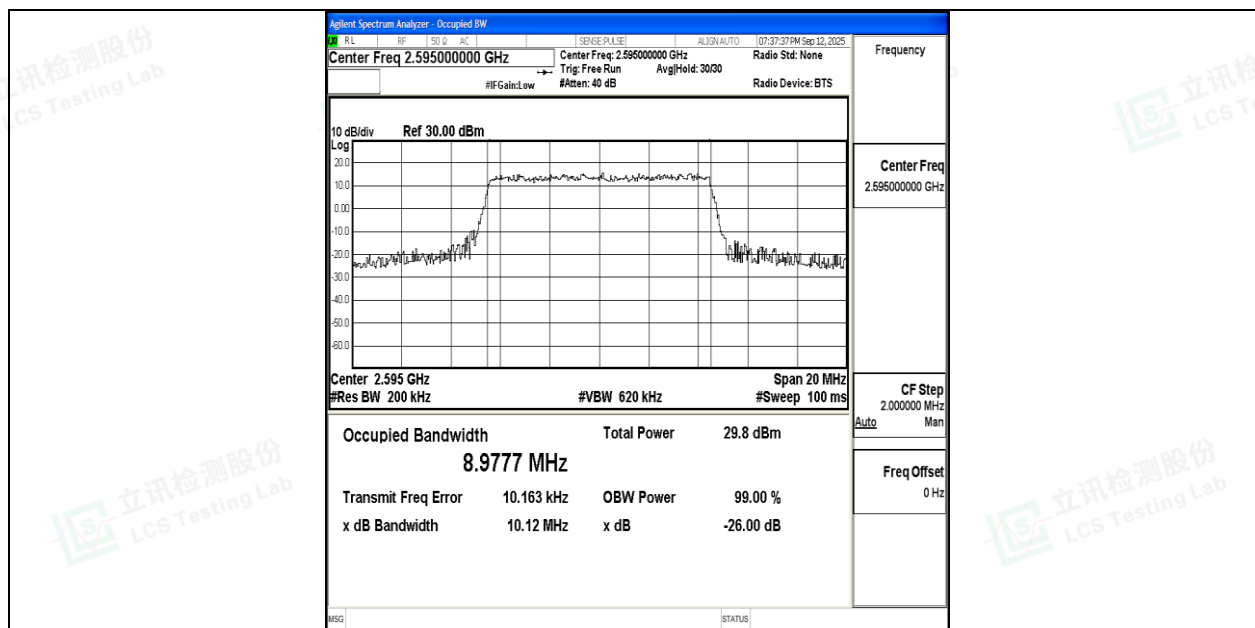


Band38-10MHz-QPSK-37800-50RB#0-PASS

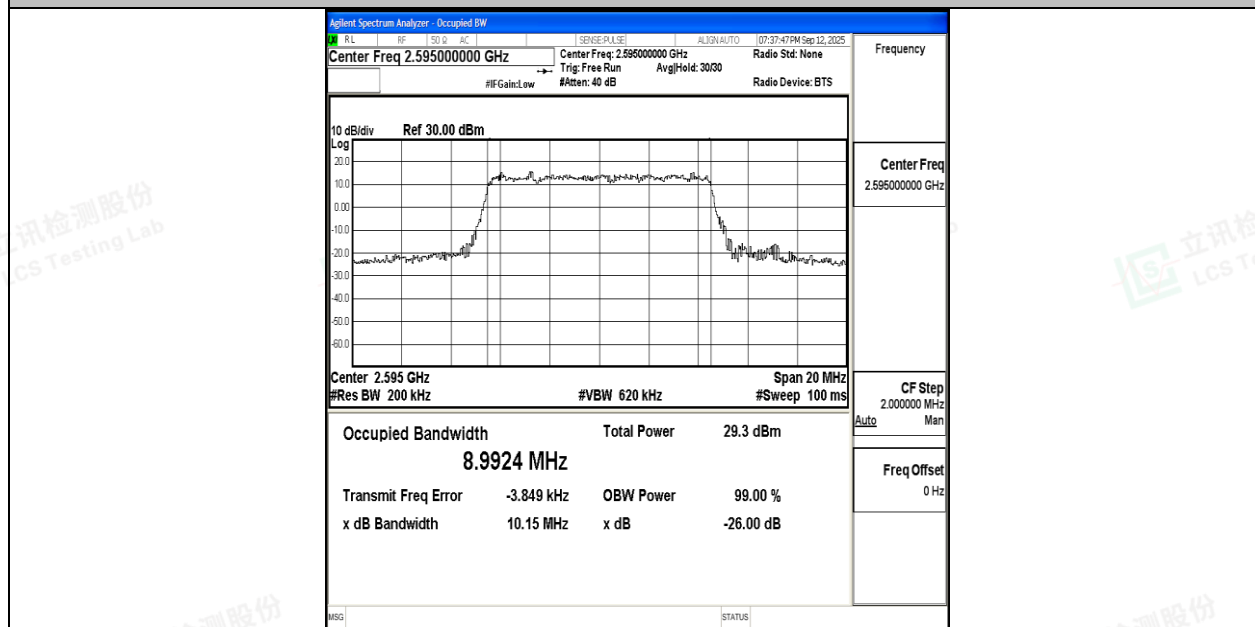


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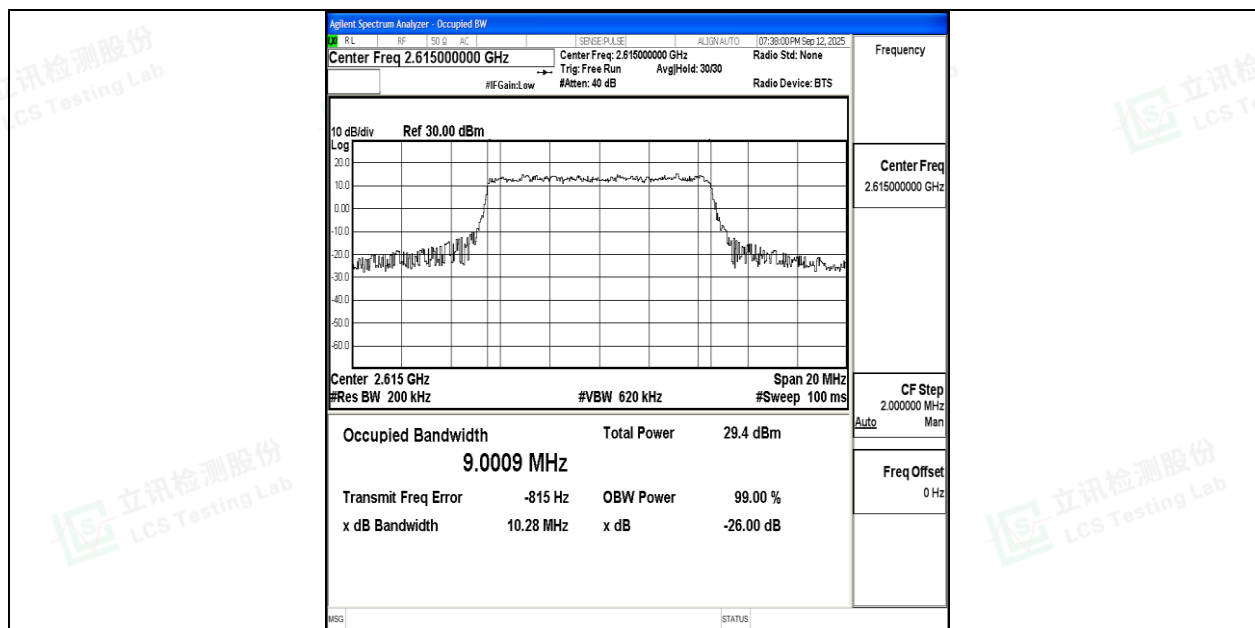


Band38-10MHz-QPSK-38000-50RB#0-PASS

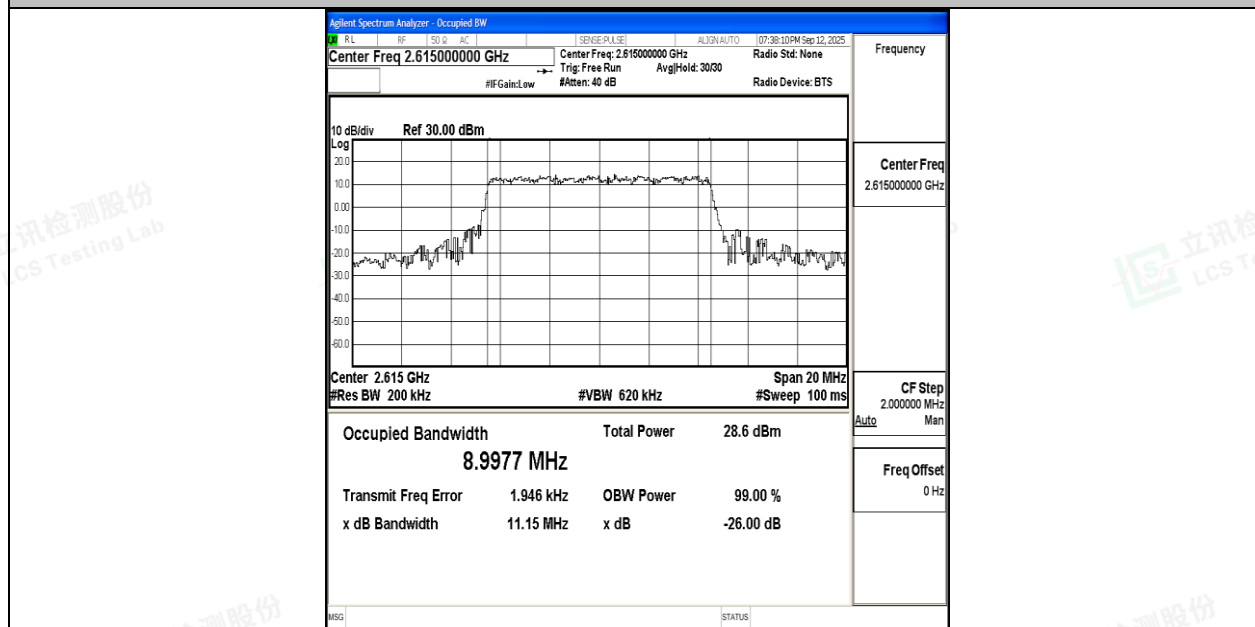


Band38-10MHz-16QAM-38000-50RB#0-PASS



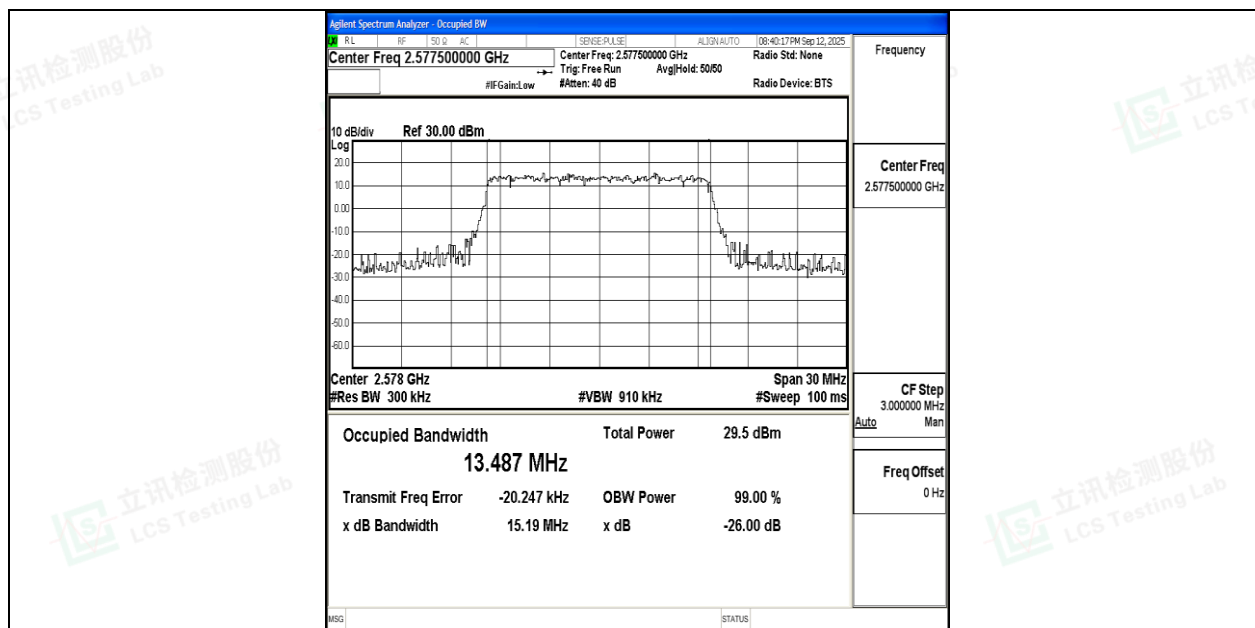


Band38-10MHz-QPSK-38200-50RB#0-PASS

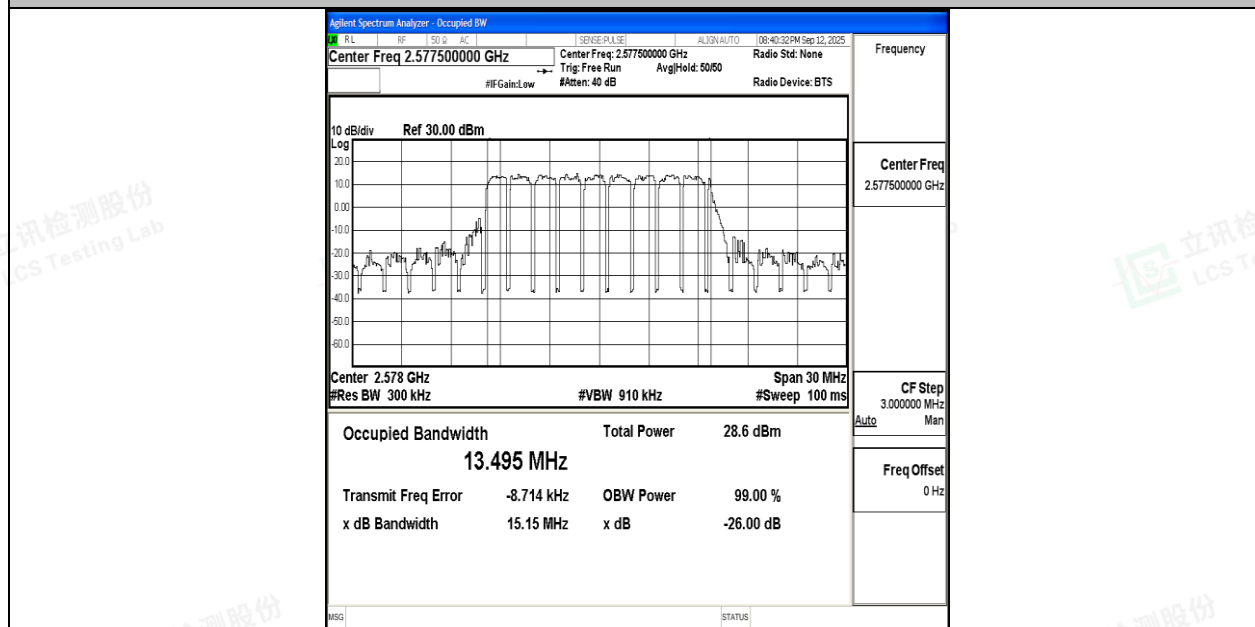


Band38-10MHz-16QAM-38200-50RB#0-PASS



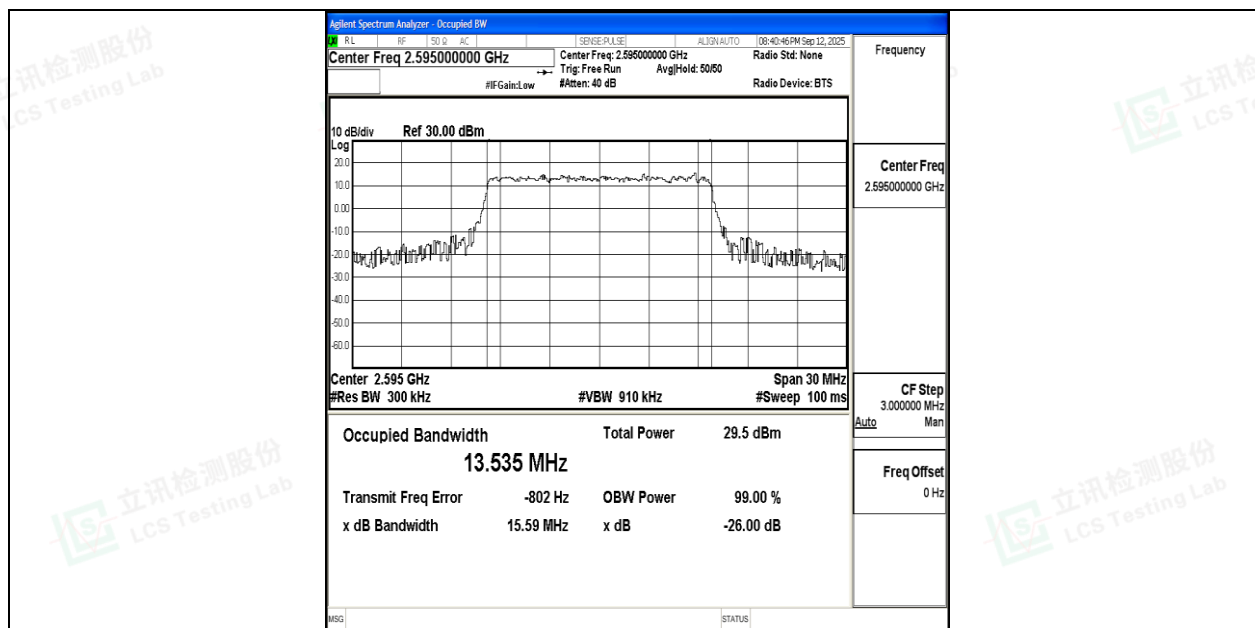


Band38-15MHz-QPSK-37825-75RB#0-PASS

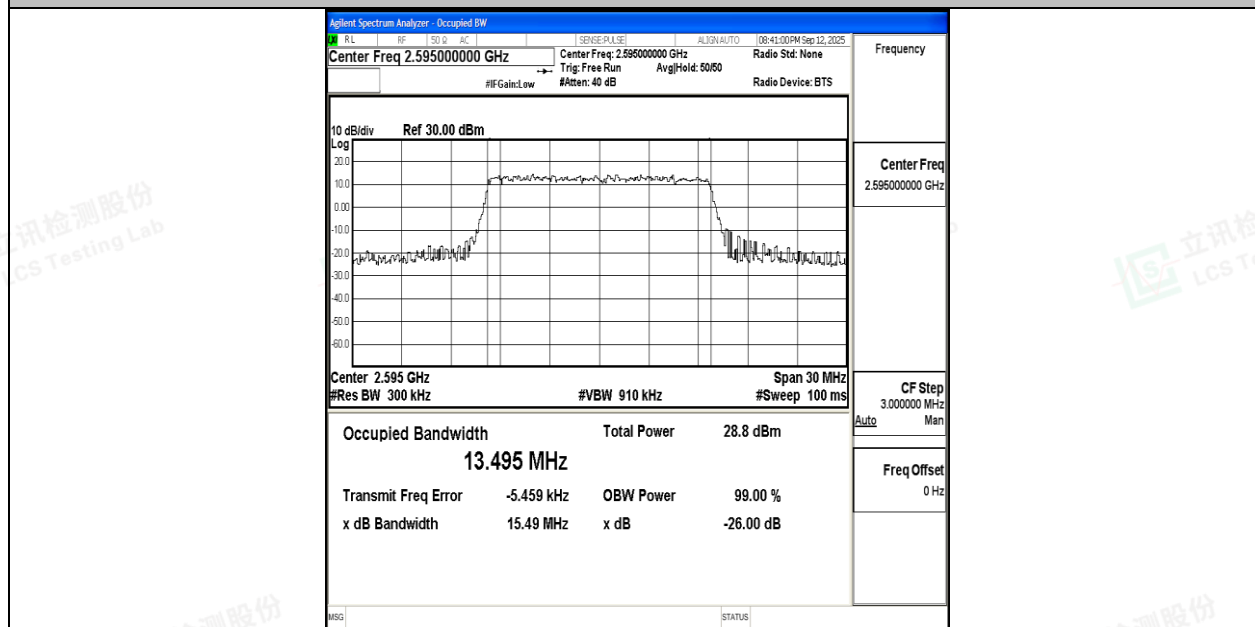


Band38-15MHz-16QAM-37825-75RB#0-PASS



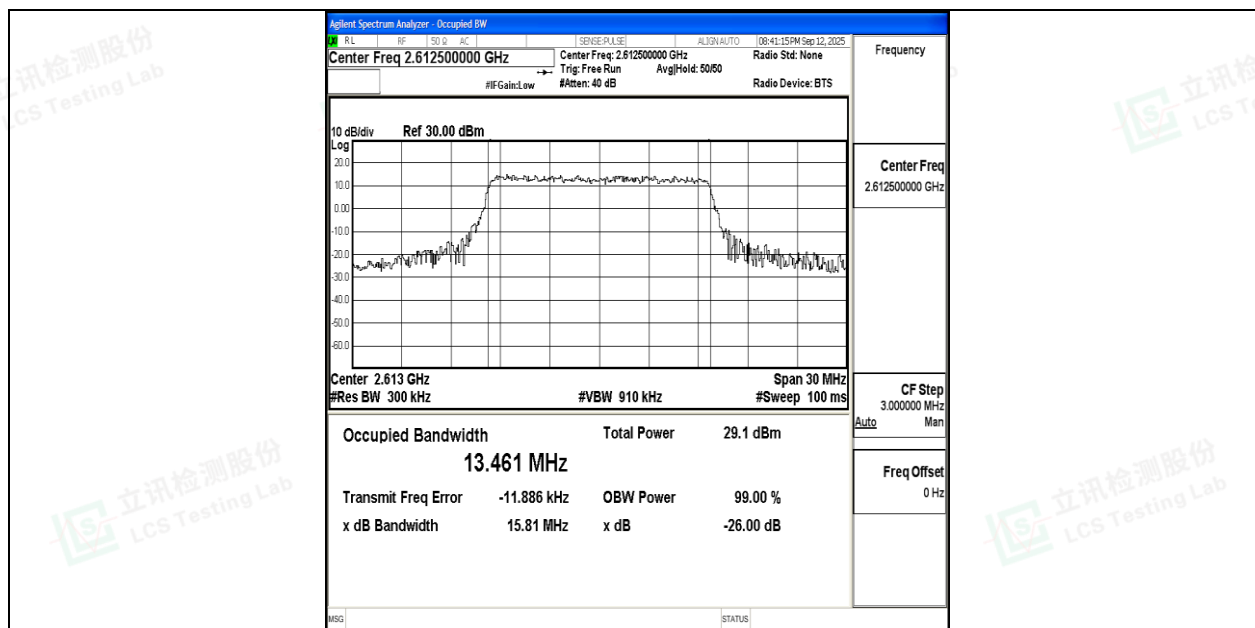


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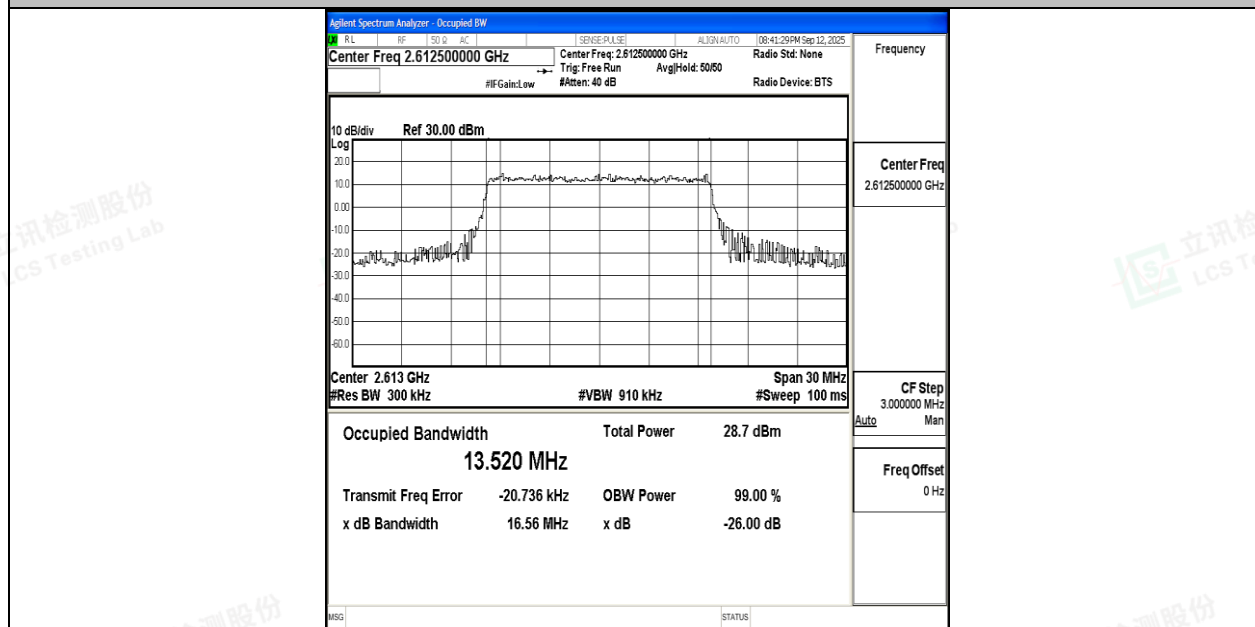


Band38-15MHz-16QAM-38000-75RB#0-PASS



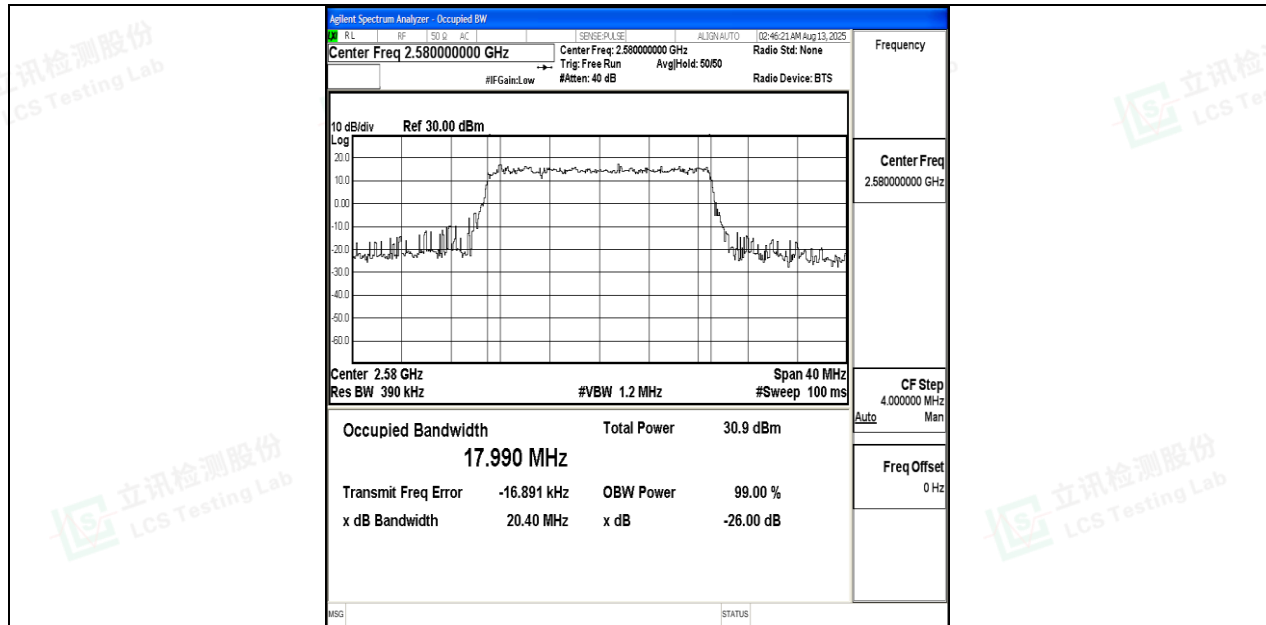


Band38-15MHz-QPSK-38175-75RB#0-PASS

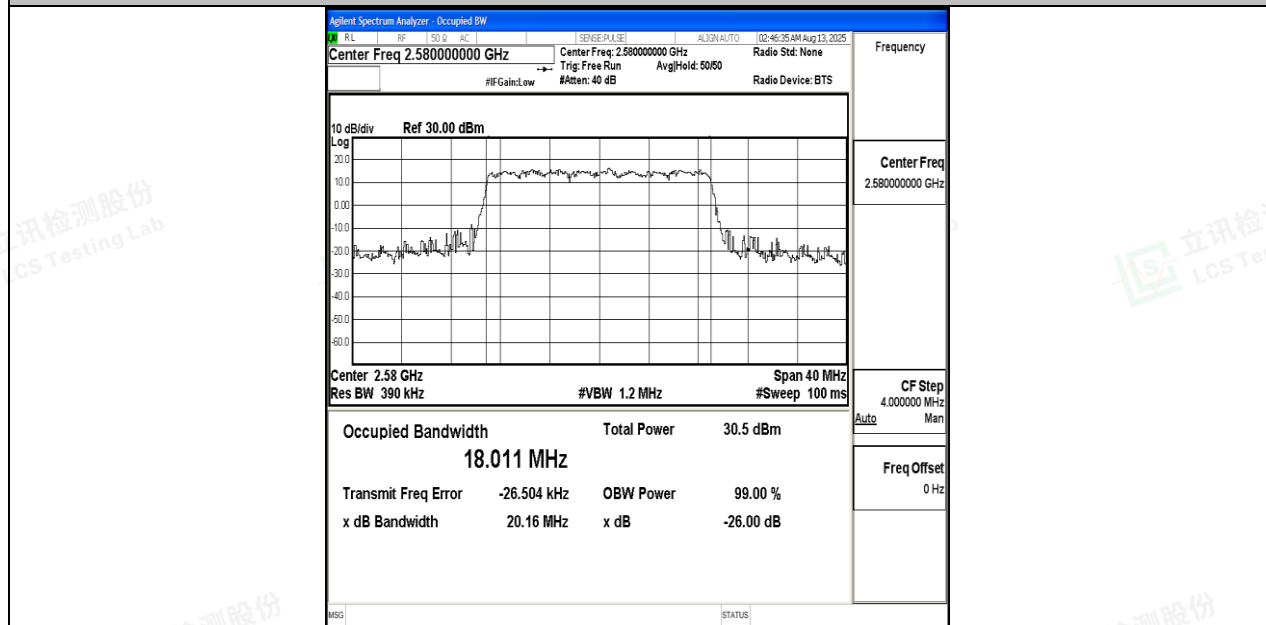


Band38-15MHz-16QAM-38175-75RB#0-PASS



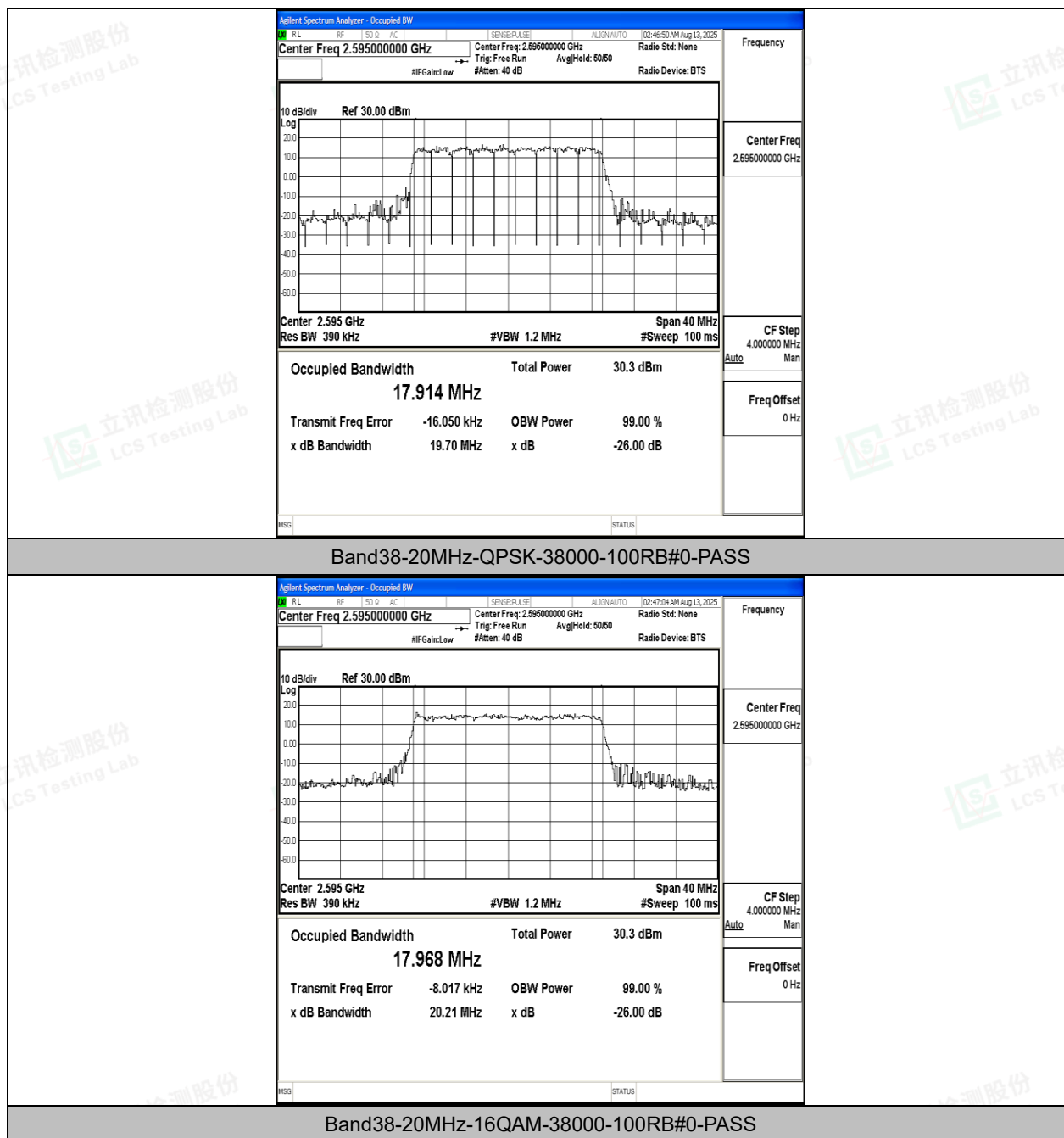


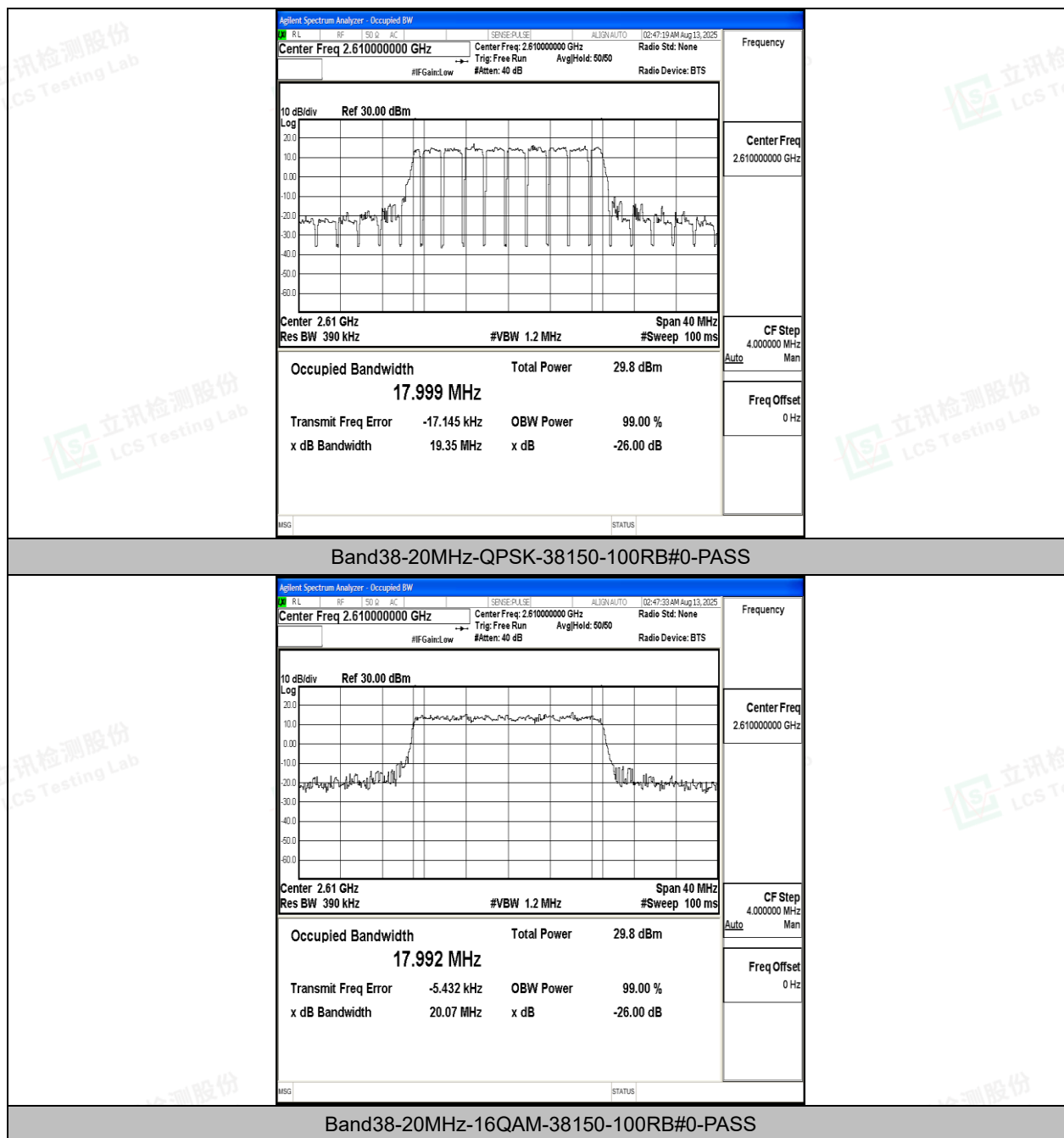
Band38-20MHz-QPSK-37850-100RB#0-PASS



Band38-20MHz-16QAM-37850-100RB#0-PASS







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Scan code to check authenticity



O.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	2560.45	-39.93	PASS
Band38	5MHz	16QAM	37775	25RB#0	2563.66	-38.88	PASS
Band38	5MHz	QPSK	38225	25RB#0	2626.55	-38.88	PASS
Band38	5MHz	16QAM	38225	25RB#0	2626.24	-39.52	PASS
Band38	10MHz	QPSK	37800	50RB#0	2559.03	-35.63	PASS
Band38	10MHz	16QAM	37800	50RB#0	2558.18	-36.55	PASS
Band38	10MHz	QPSK	38200	50RB#0	2631.23	-36.95	PASS
Band38	20MHz	QPSK	37850	100RB#0	2545.77	-34.22	PASS
Band38	20MHz	16QAM	37850	100RB#0	2546.40	-34.39	PASS
Band38	10MHz	16QAM	38200	50RB#0	2630.83	-35.92	PASS
Band38	15MHz	QPSK	37825	75RB#0	2552.59	-33.92	PASS
Band38	15MHz	16QAM	37825	75RB#0	2550.74	-34.21	PASS
Band38	15MHz	QPSK	38175	75RB#0	2636.99	-34.72	PASS
Band38	15MHz	16QAM	38175	75RB#0	2636.26	-34.50	PASS
Band38	20MHz	QPSK	38150	100RB#0	2642.57	-34.22	PASS
Band38	20MHz	16QAM	38150	100RB#0	2640.91	-34.47	PASS





Test Graphs

