



Appendix K: Test Data for E-UTRA Band 38

Product Name: Orca Display 2

Test Model: O-0202

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.53	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.44	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.44	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.49	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.52	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.47	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.49	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.64	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.70	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.72	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.52	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.48	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.50	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.55	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.48	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.42	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.34	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.52	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.49	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.42	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.47	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.81	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.71	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.68	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.52	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.53	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.47	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.53	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.76	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.82	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.84	PASS





Band38	5MHz	16QAM	38000	12RB#0	20.43	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.46	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.47	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.49	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.76	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.71	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.59	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.52	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.53	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.42	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.47	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.54	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.55	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.45	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.43	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.47	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.47	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.46	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.39	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.57	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.55	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.42	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.41	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.46	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.48	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.59	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.58	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.39	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.57	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.54	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.41	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.55	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.88	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.86	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.80	PASS



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Scan code to check authenticity



Band38	10MHz	16QAM	37800	25RB#0	20.53	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.53	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.52	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.42	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.70	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.85	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.86	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.56	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.54	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.49	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.41	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.52	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.52	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.32	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.56	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.57	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.41	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.50	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.47	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.50	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.35	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.41	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.40	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.41	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.40	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.36	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.55	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.54	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.42	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.44	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.45	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.43	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.69	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.70	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.42	PASS



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Scan code to check authenticity



Band38	15MHz	QPSK	38175	38RB#0	21.54	PASS
Band38	15MHz	QPSK	38175	38RB#18	21.54	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.53	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.54	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.87	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.82	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.64	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.39	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.41	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.41	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.39	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.70	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.86	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.86	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.41	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.45	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.44	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.44	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.65	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.64	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.40	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.53	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.53	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.54	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.53	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.34	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.37	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.25	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.41	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.40	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.19	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.27	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.23	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.52	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.55	PASS





Band38	20MHz	QPSK	38000	50RB#0	21.45	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.42	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.47	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.44	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.52	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.64	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.32	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.64	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.61	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.44	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.52	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.51	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.54	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.41	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.34	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.33	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.20	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.26	PASS
Band38	20MHz	16QAM	38000	1RB#0	20.91	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.18	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.20	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.46	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.42	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.48	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.46	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.42	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.55	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.24	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.57	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.57	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.37	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.50	PASS





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

Test Result

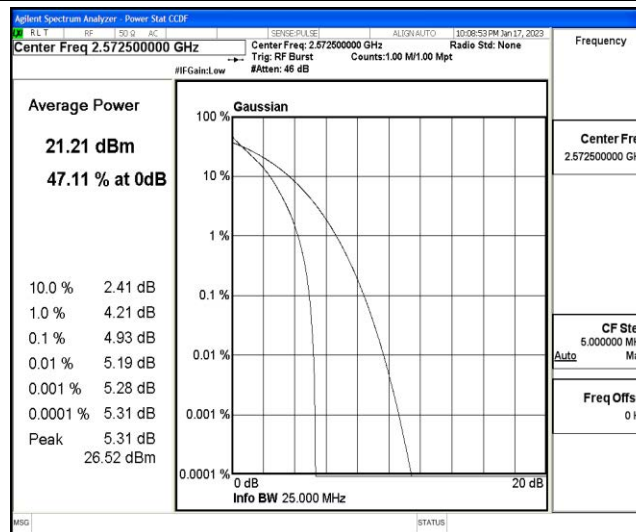
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.93	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.96	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.35	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	5.73	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	5.72	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	6.63	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	4.93	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	4.98	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.31	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	5.82	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	5.85	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	6.12	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.30	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.34	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	5.63	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	5.99	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	6.04	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	6.26	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.17	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.22	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.44	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	5.93	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.03	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.19	13	PASS



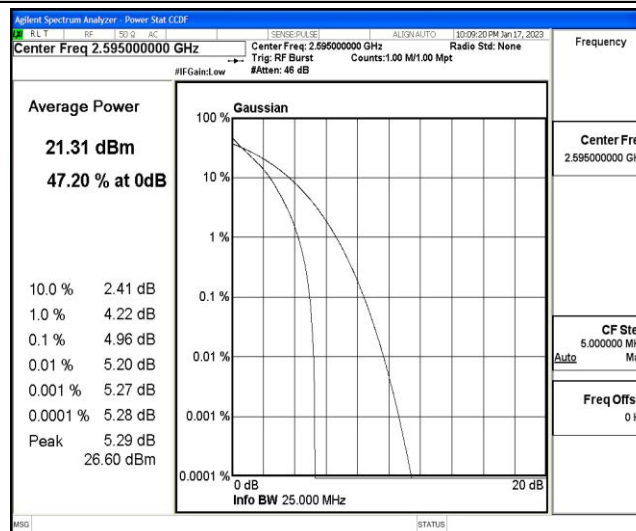


Test Graphs

Band38-5MHz-QPSK-37775-25RB#0

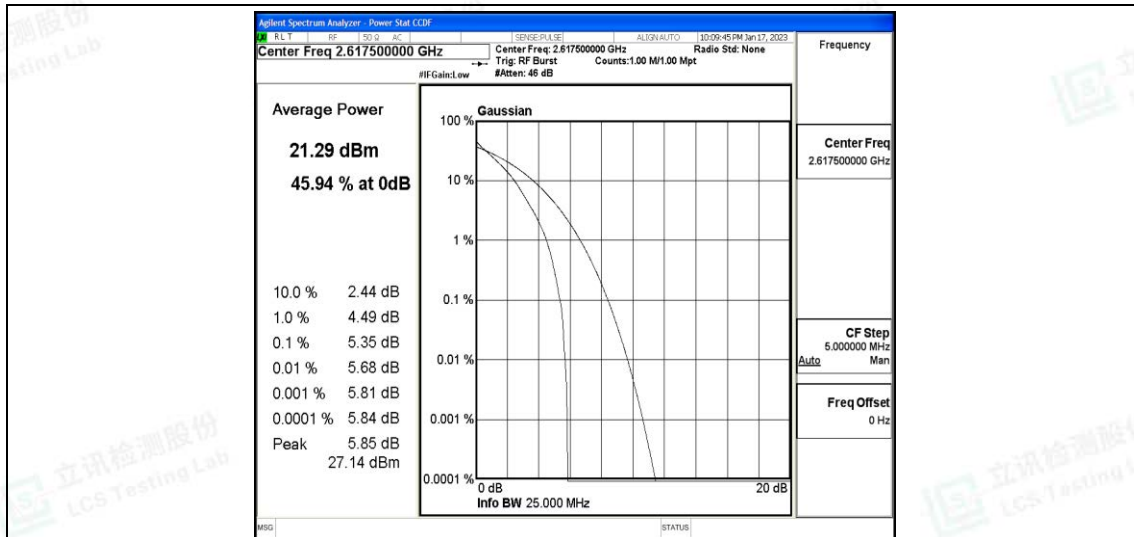


Band38-5MHz-QPSK-38000-25RB#0

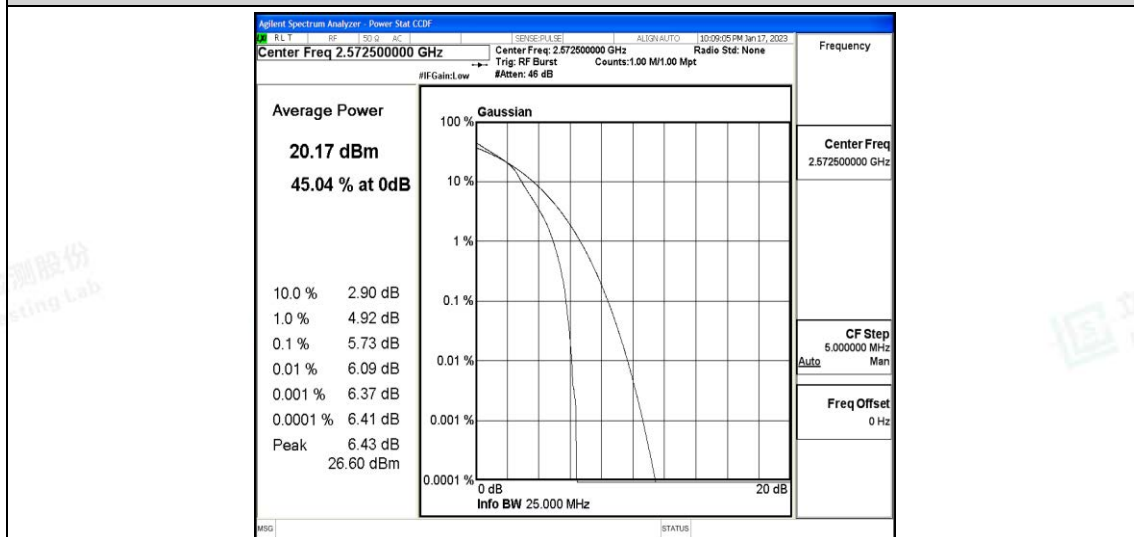


Band38-5MHz-QPSK-38225-25RB#0

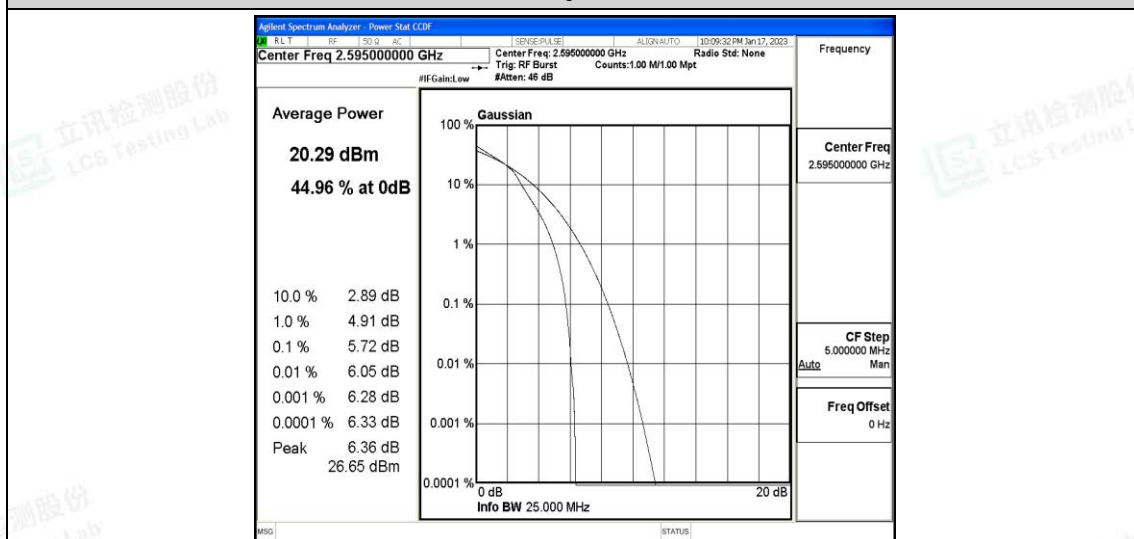




Band38-5MHz-16QAM-37775-25RB#0

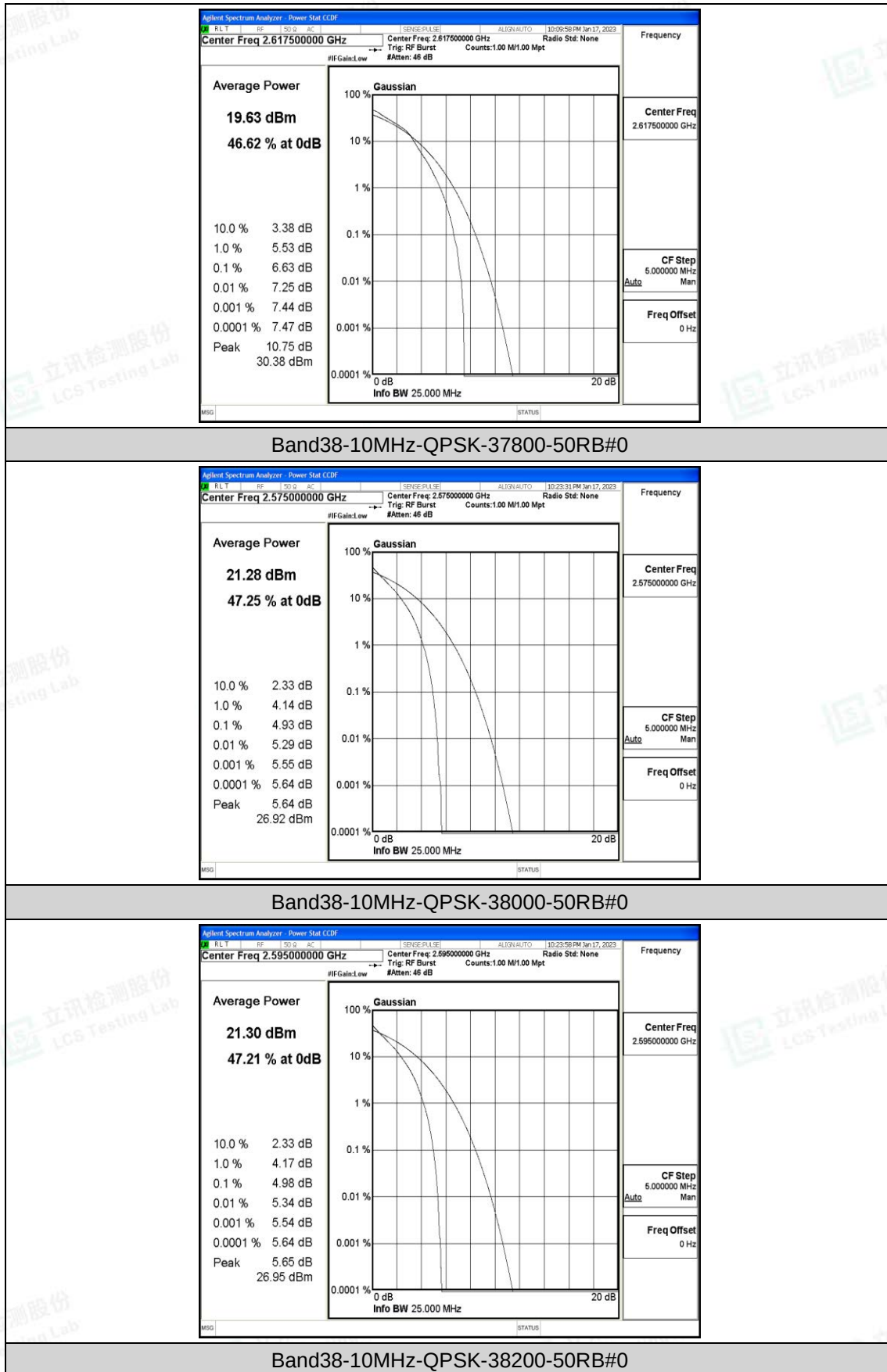


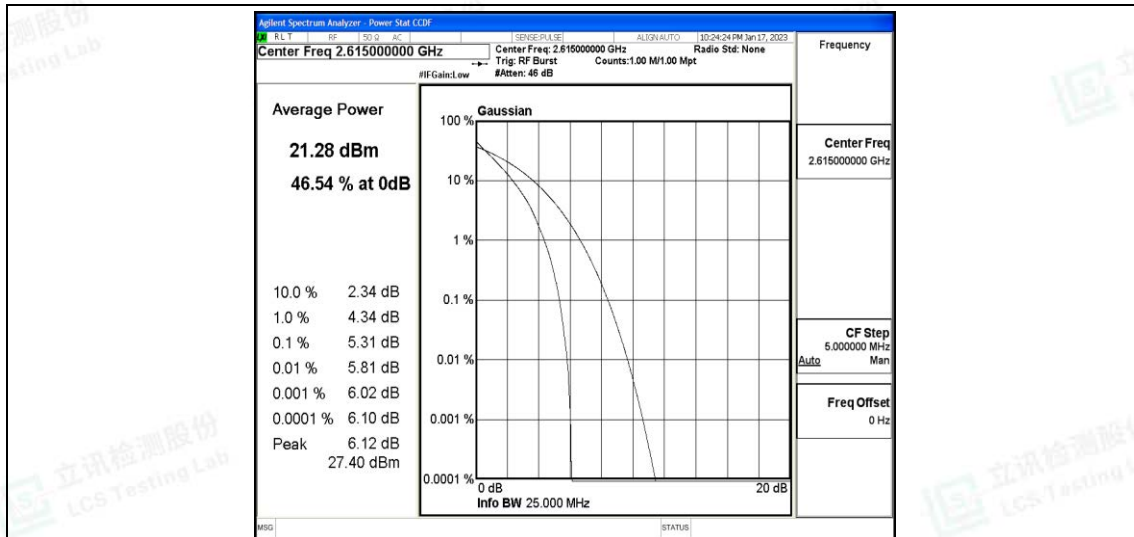
Band38-5MHz-16QAM-38000-25RB#0



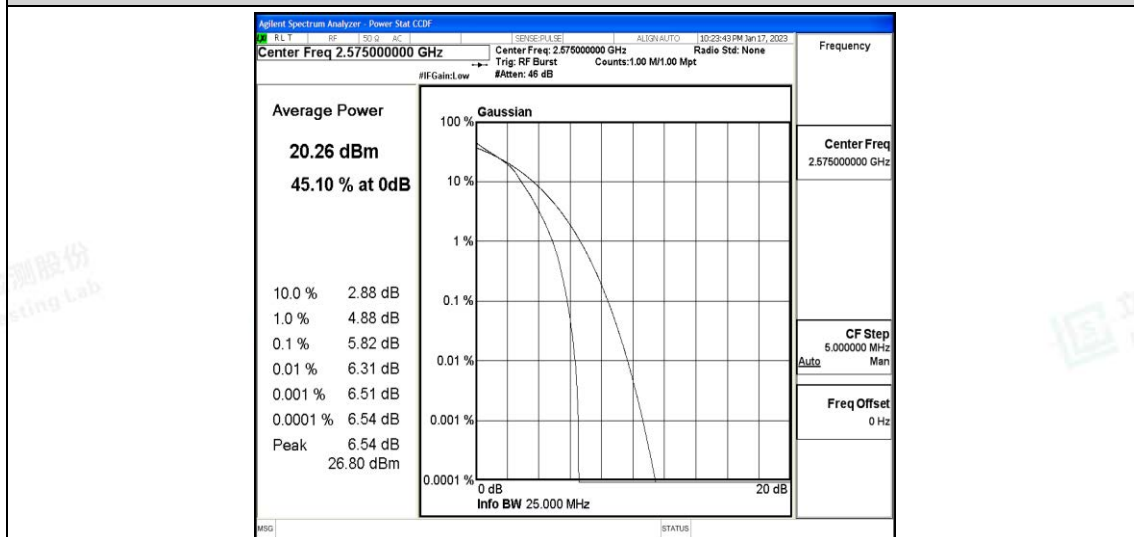
Band38-5MHz-16QAM-38225-25RB#0



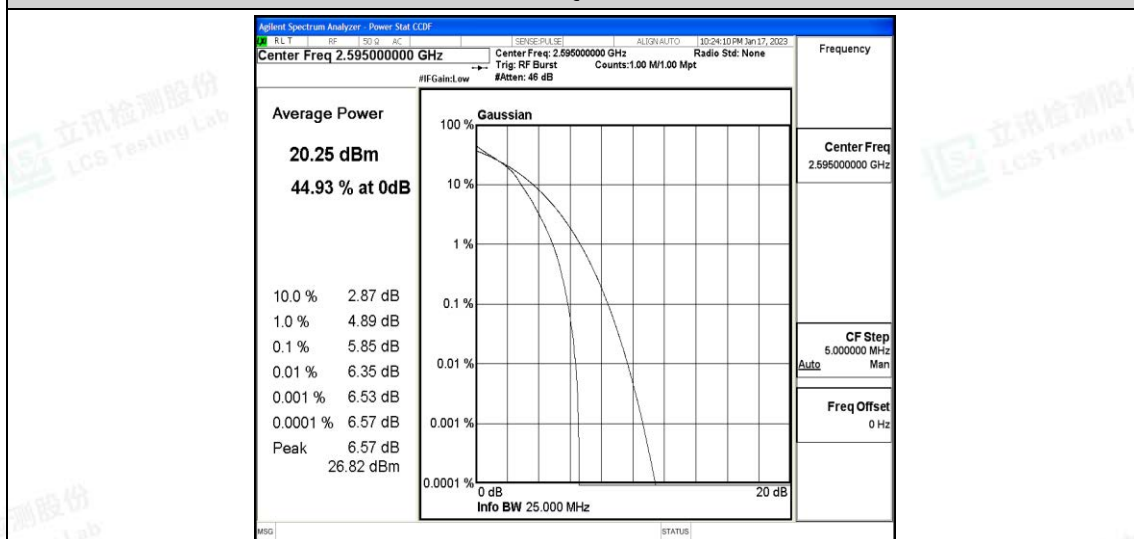




Band38-10MHz-16QAM-37800-50RB#0

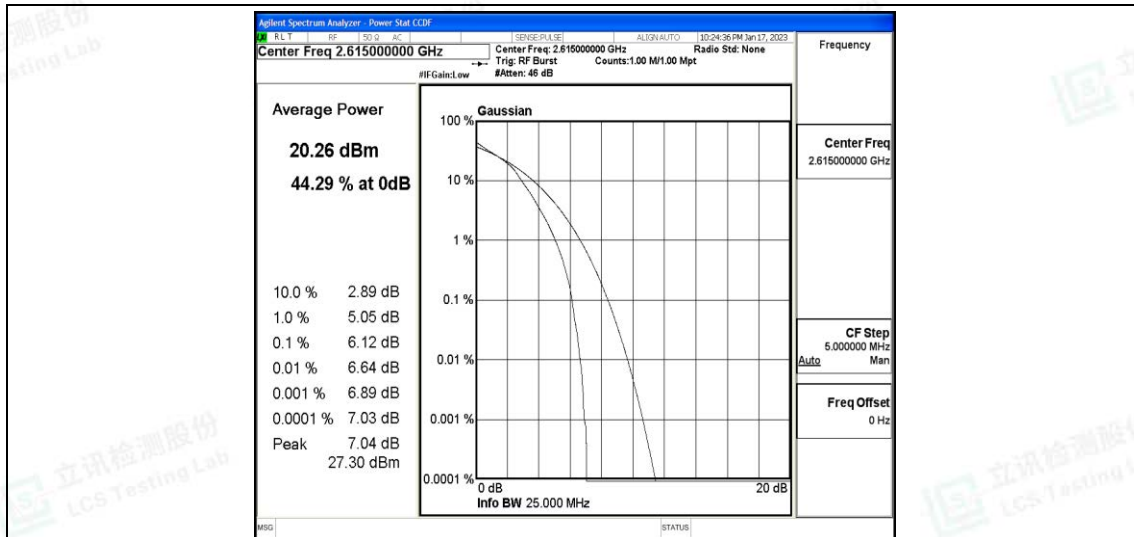


Band38-10MHz-16QAM-38000-50RB#0

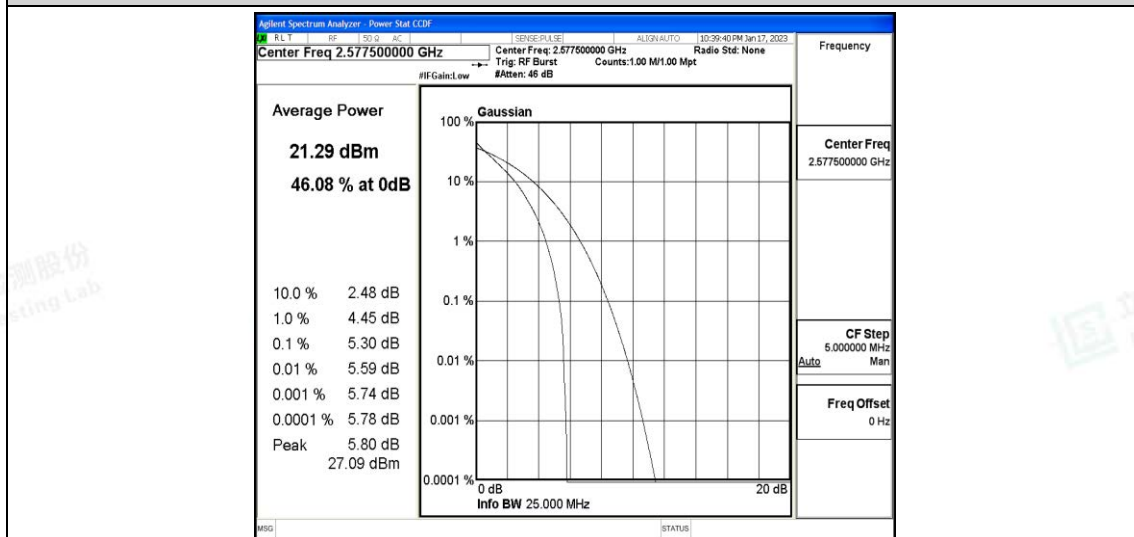


Band38-10MHz-16QAM-38200-50RB#0

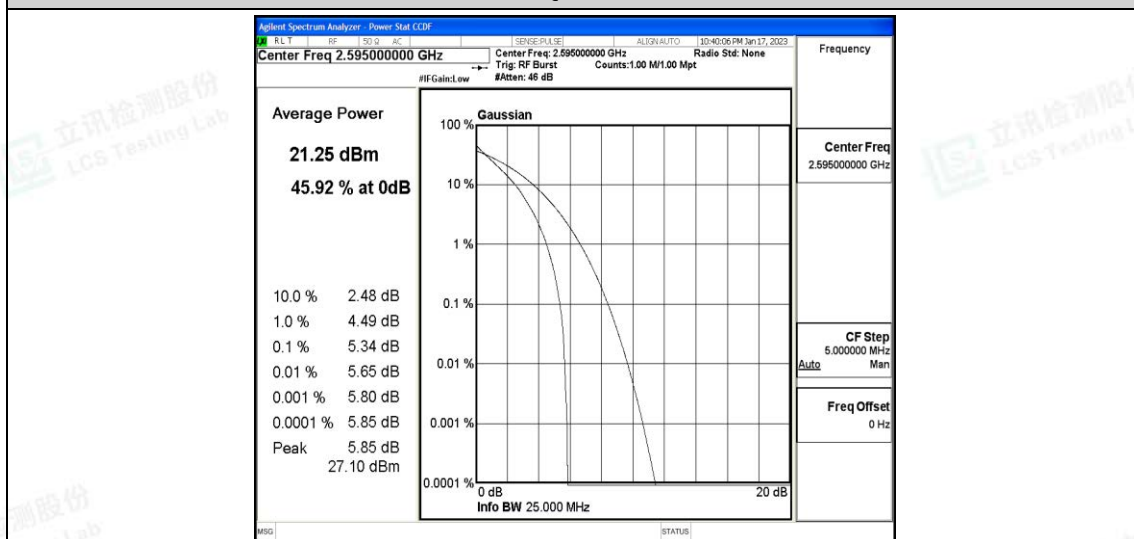




Band38-15MHz-QPSK-37825-75RB#0

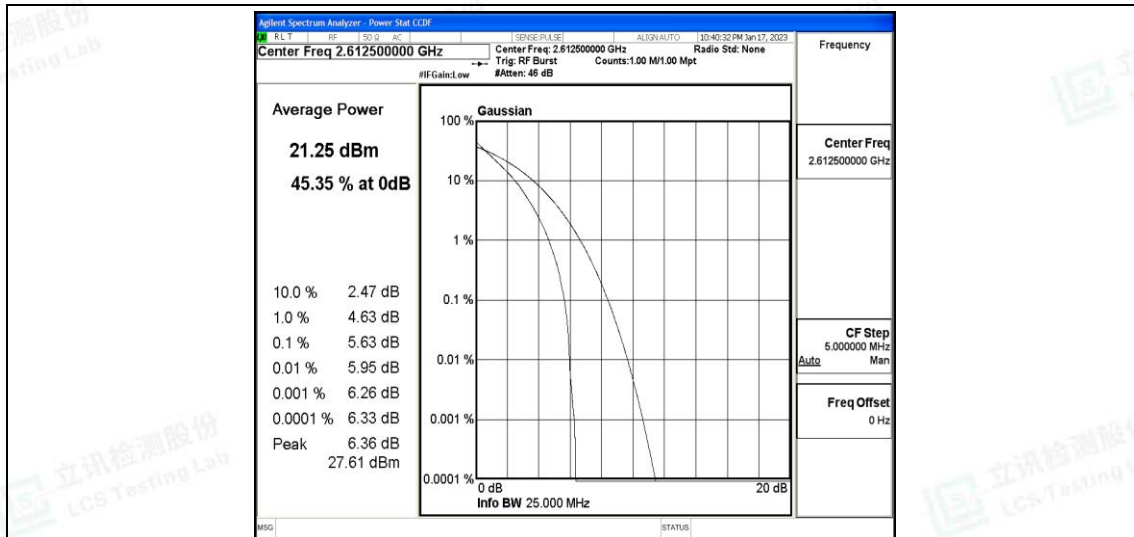


Band38-15MHz-QPSK-38000-75RB#0

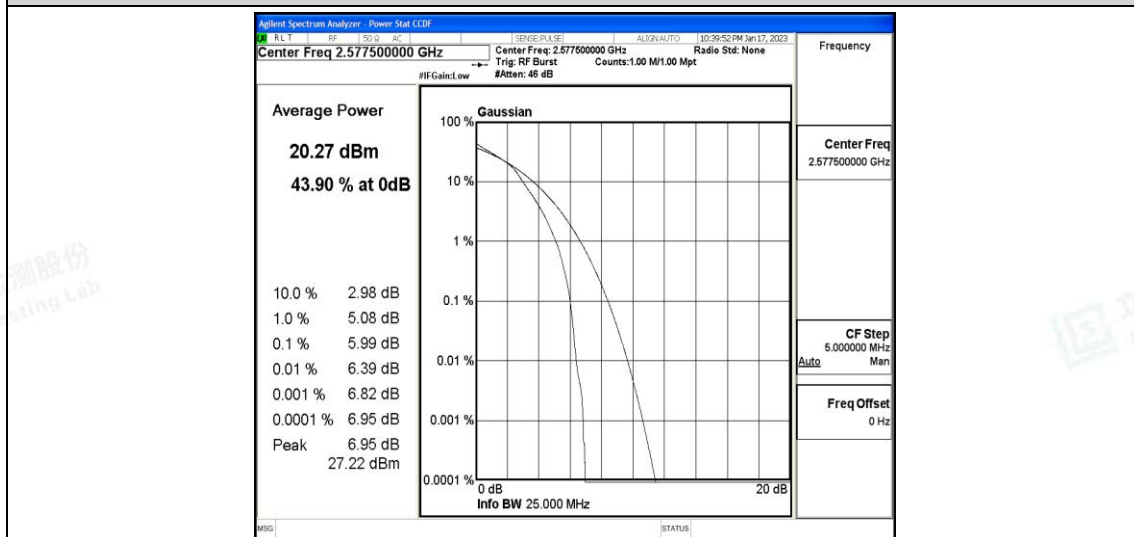


Band38-15MHz-QPSK-38175-75RB#0

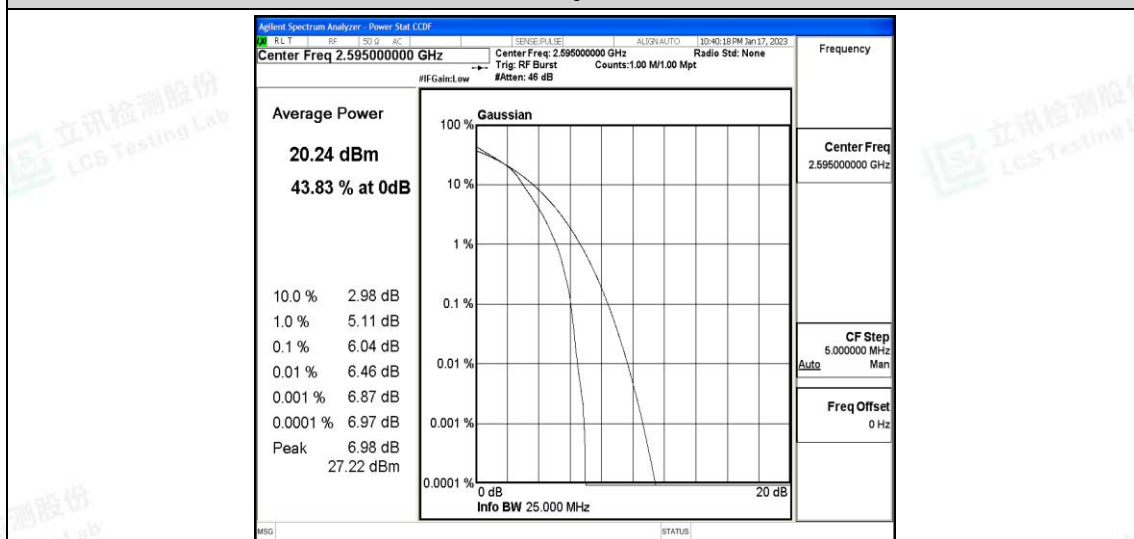




Band38-15MHz-16QAM-37825-75RB#0

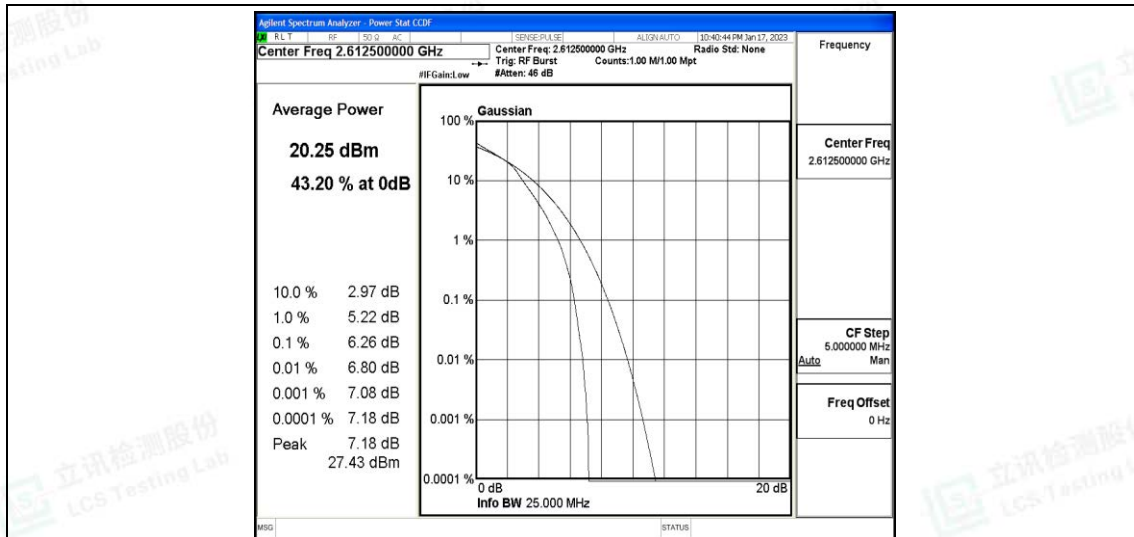


Band38-15MHz-16QAM-38000-75RB#0

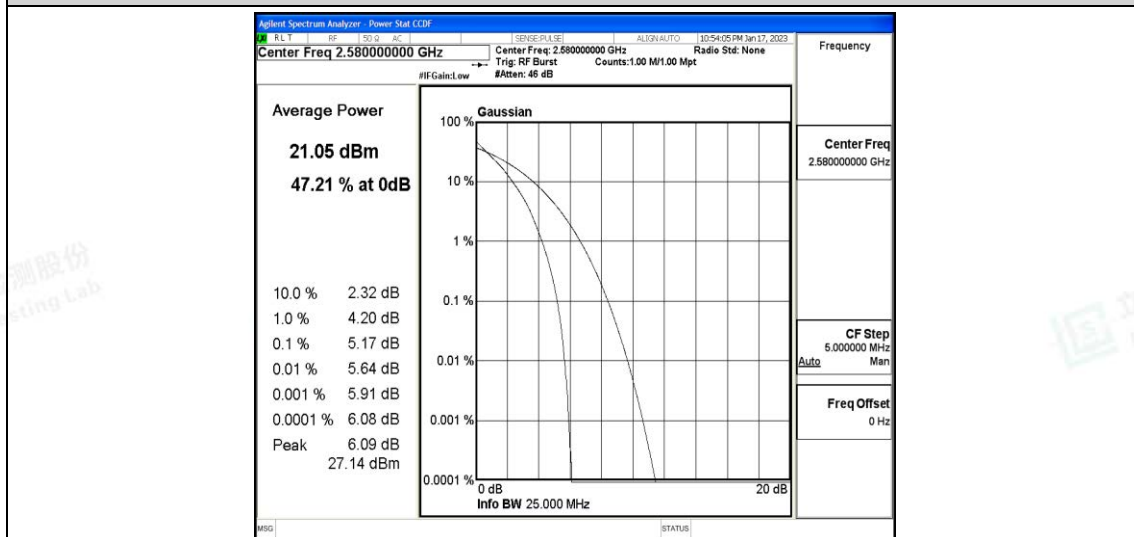


Band38-15MHz-16QAM-38175-75RB#0

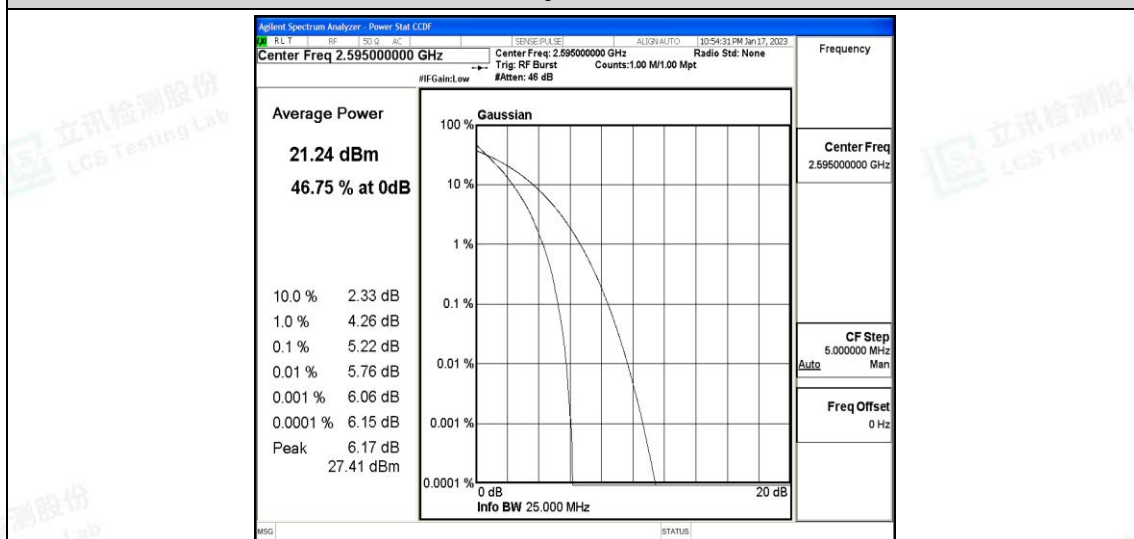




Band38-20MHz-QPSK-37850-100RB#0

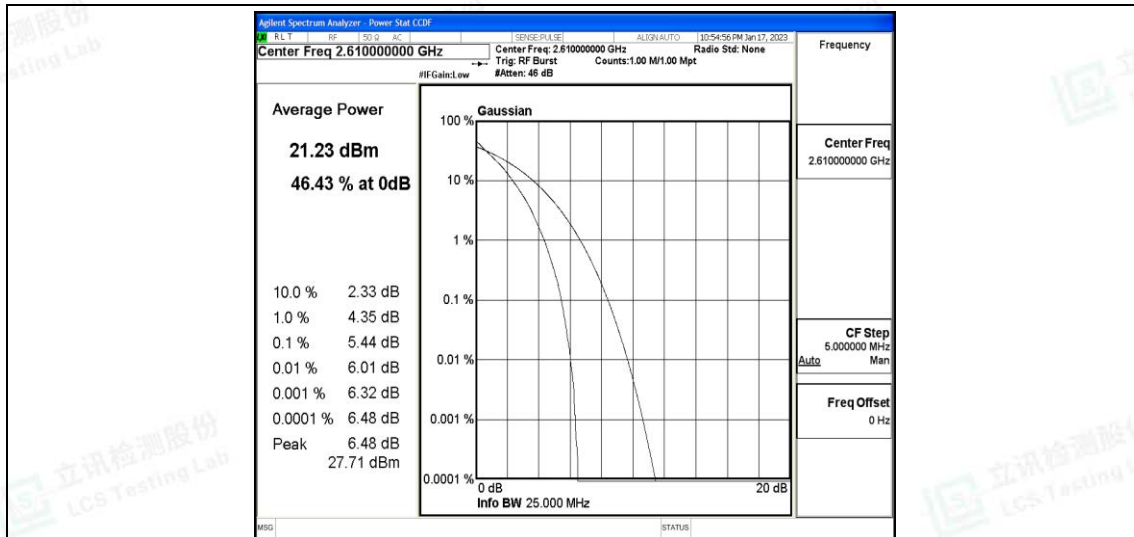


Band38-20MHz-QPSK-38000-100RB#0

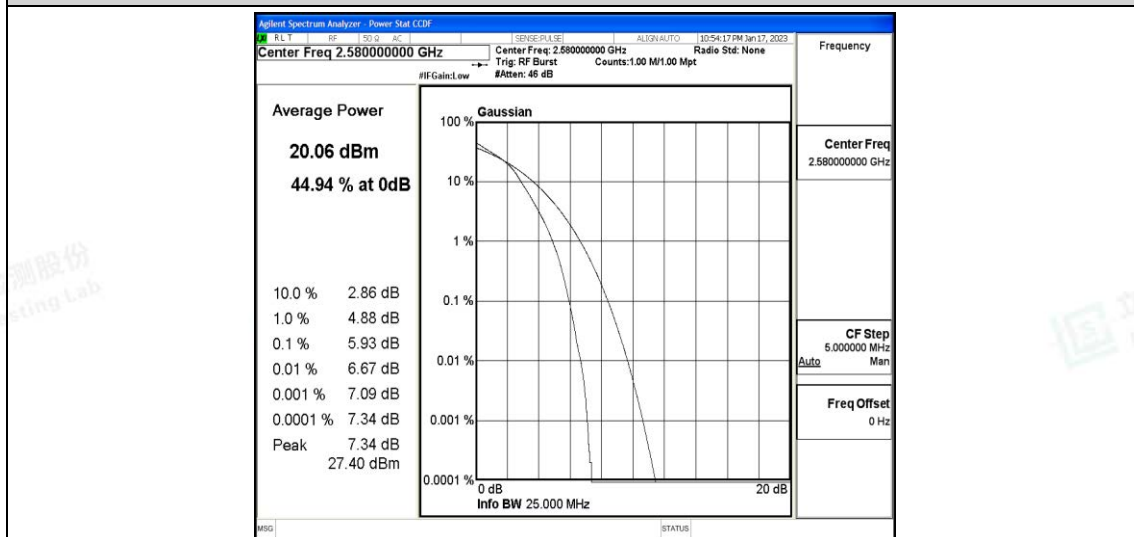


Band38-20MHz-QPSK-38150-100RB#0

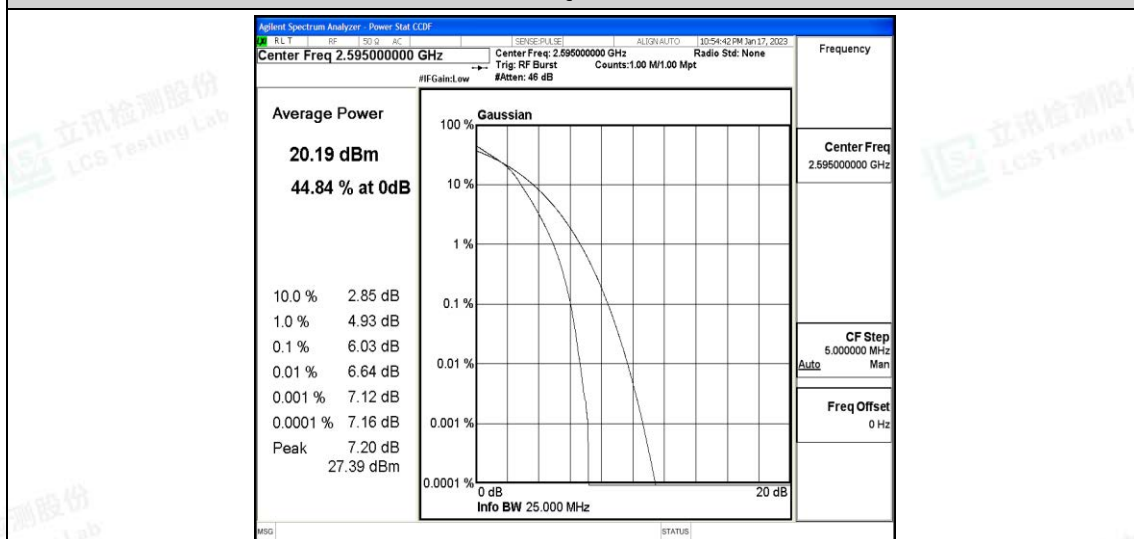




Band38-20MHz-16QAM-37850-100RB#0

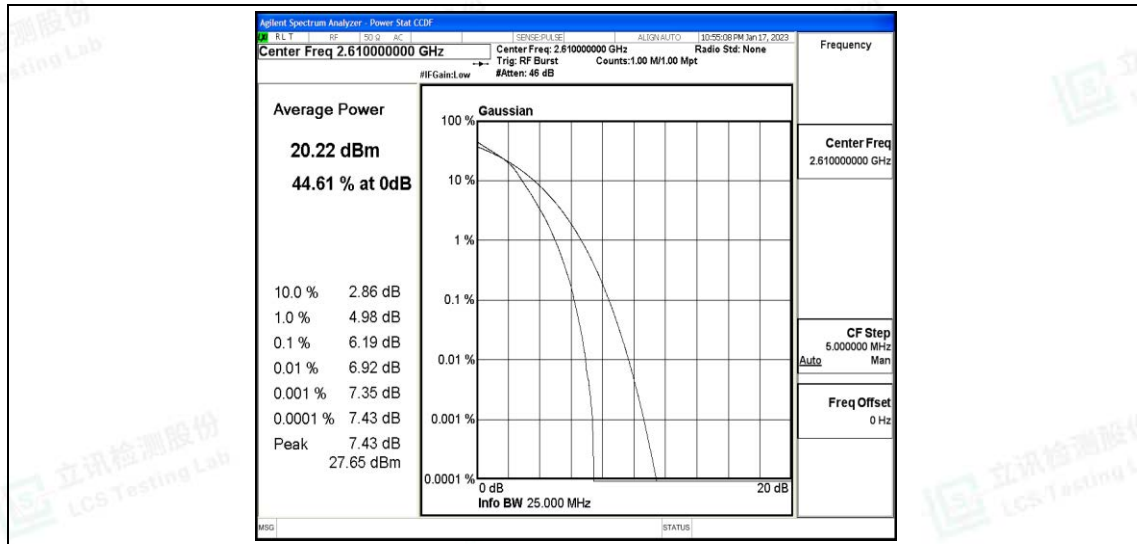


Band38-20MHz-16QAM-38000-100RB#0



Band38-20MHz-16QAM-38150-100RB#0







K.3 26dB Bandwidth and Occupied Bandwidth

Test Result

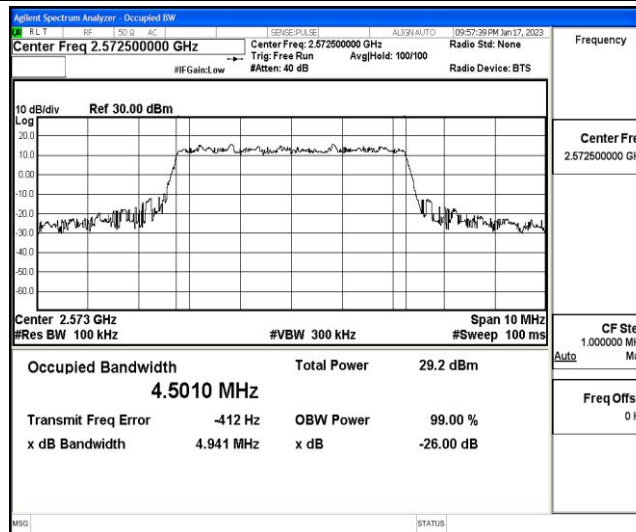
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5010	4.941	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5040	5.000	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.5017	5.223	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4910	5.043	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5010	4.984	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4992	4.918	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9789	9.870	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9814	9.858	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9605	9.983	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9419	9.766	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9684	9.731	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9761	10.02	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.501	15.80	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.466	15.79	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.468	15.15	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.412	16.06	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.493	15.31	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.434	15.87	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.881	19.14	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.978	20.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.875	20.95	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.939	20.09	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.948	19.98	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.977	22.09	PASS



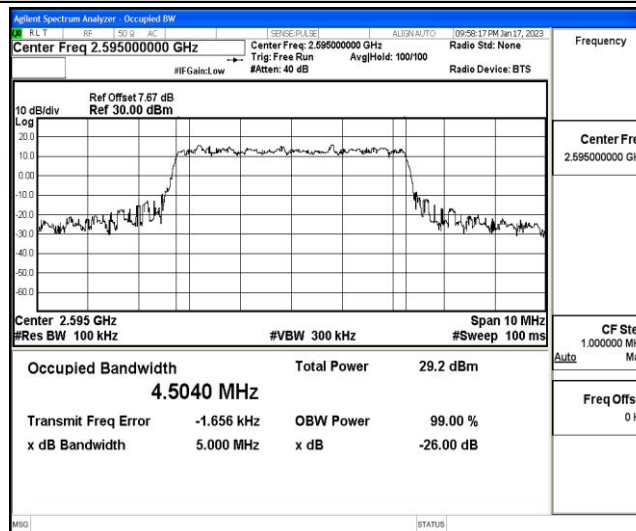


Test Graphs

Band38-5MHz-QPSK-37775-25RB#0

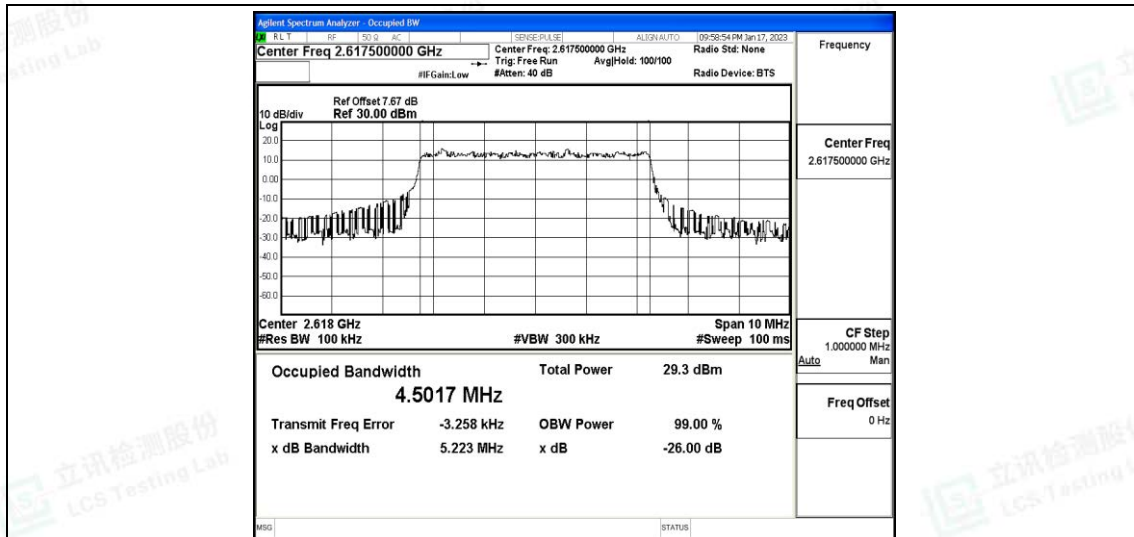


Band38-5MHz-QPSK-38000-25RB#0

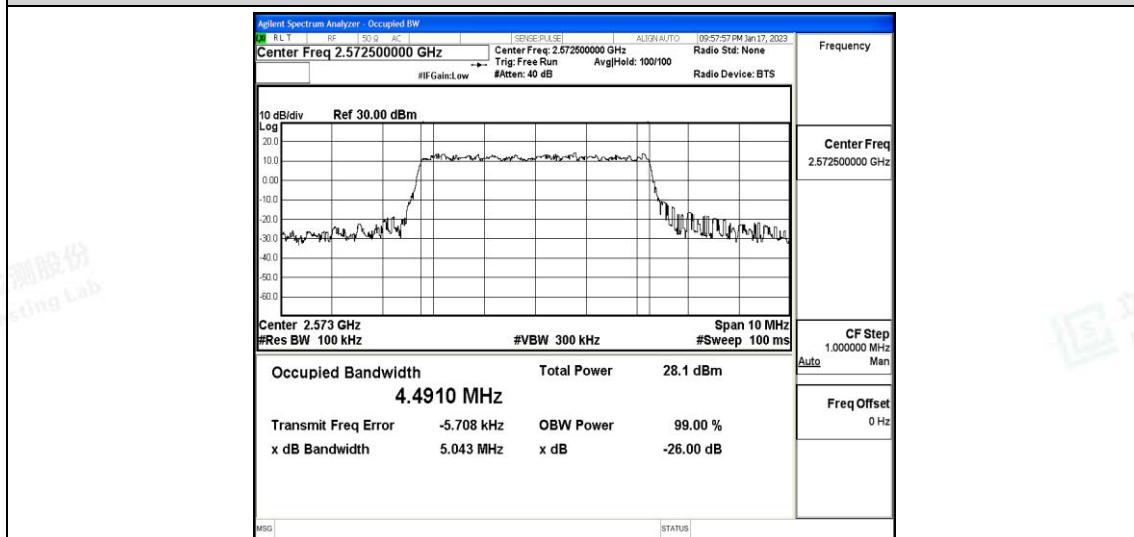


Band38-5MHz-QPSK-38225-25RB#0

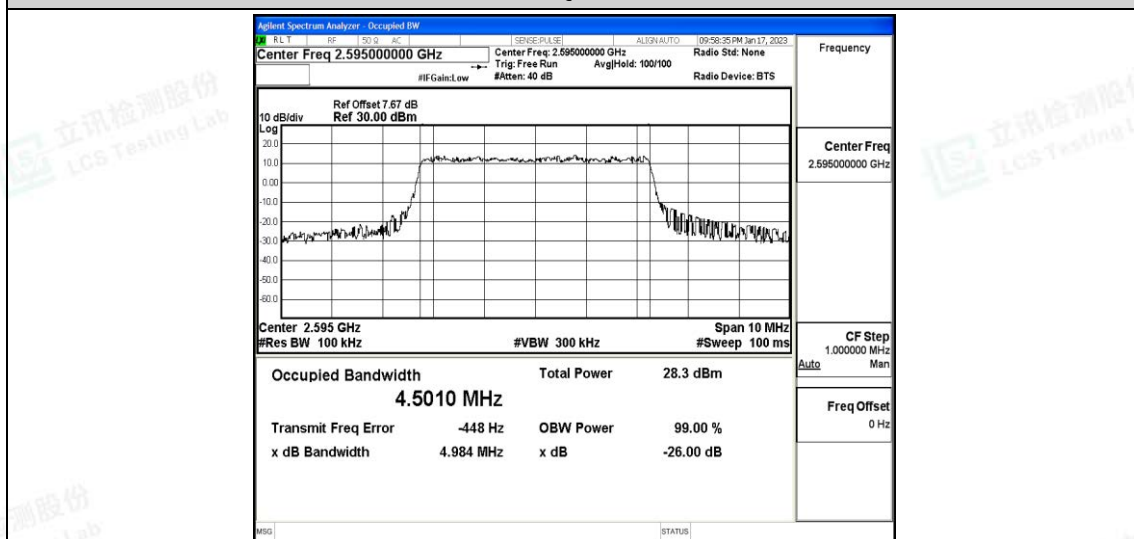




Band38-5MHz-16QAM-37775-25RB#0

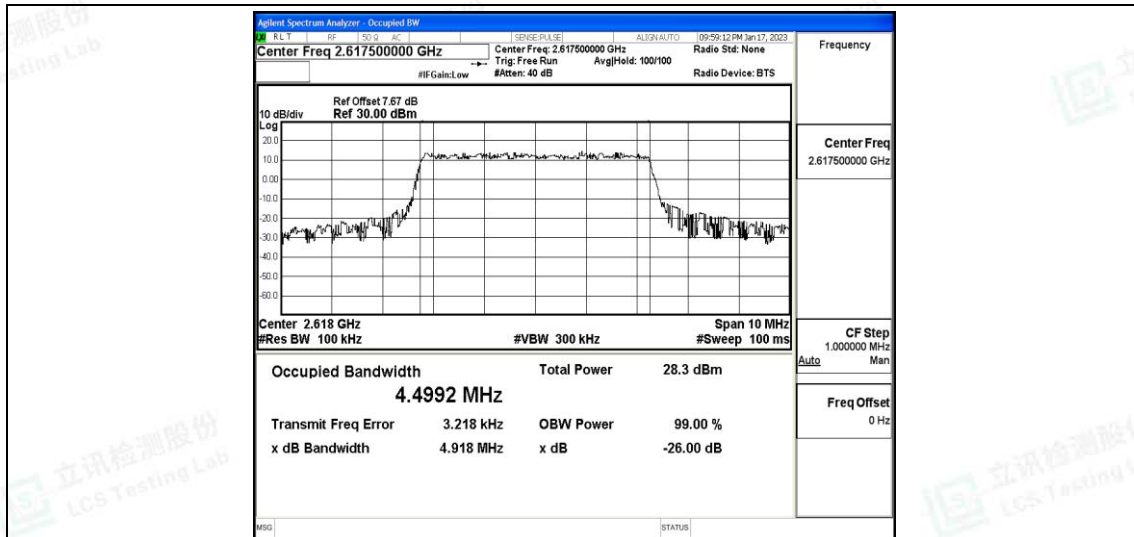


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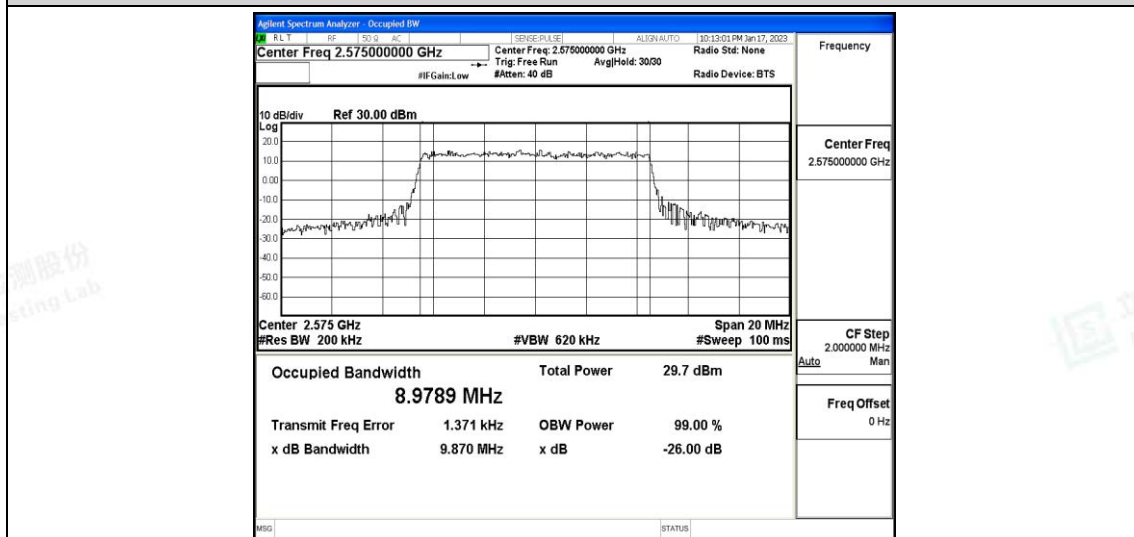


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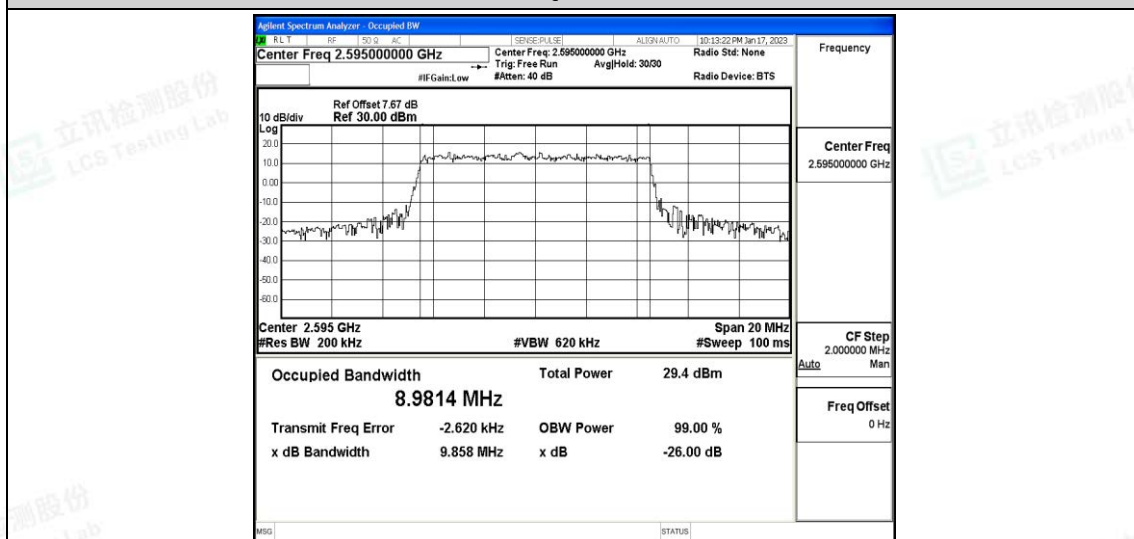




Band38-10MHz-QPSK-37800-50RB#0

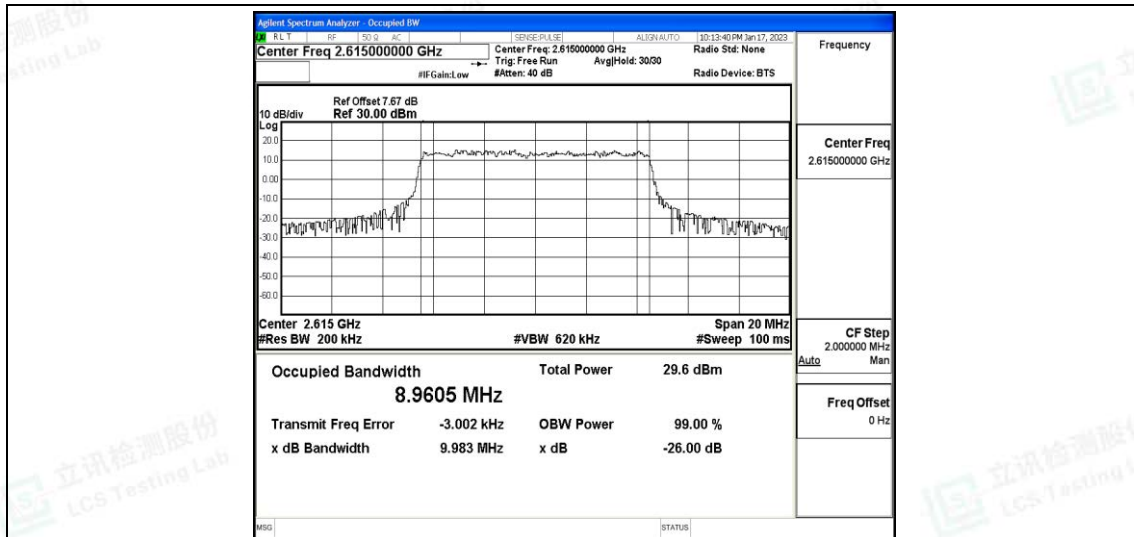


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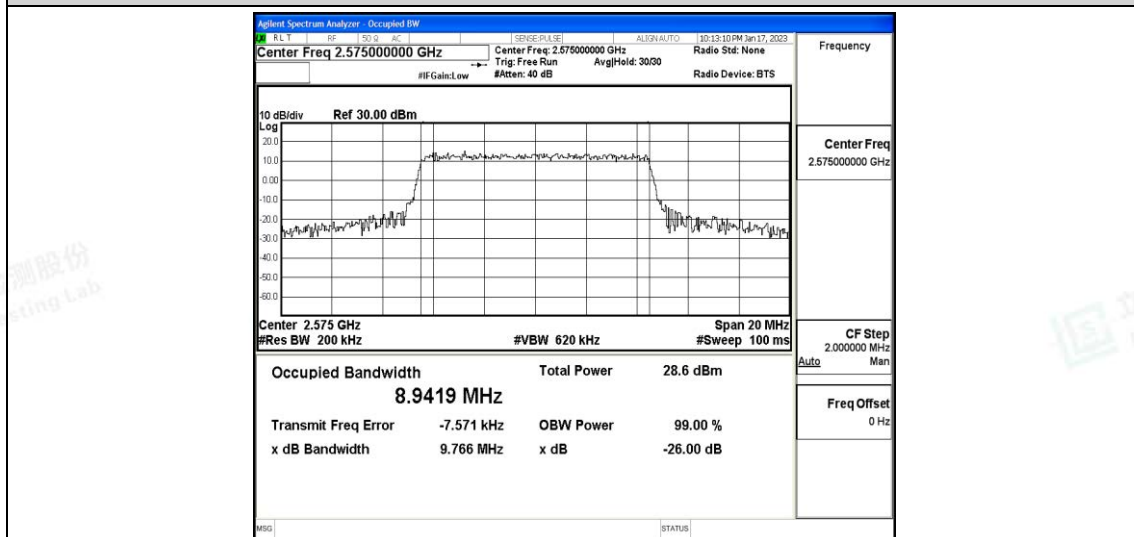


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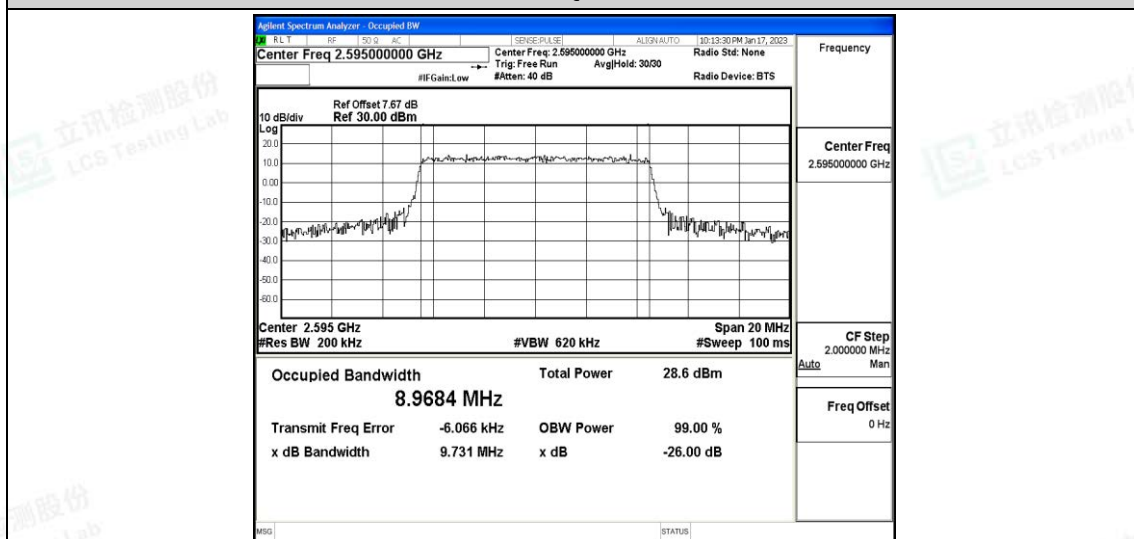




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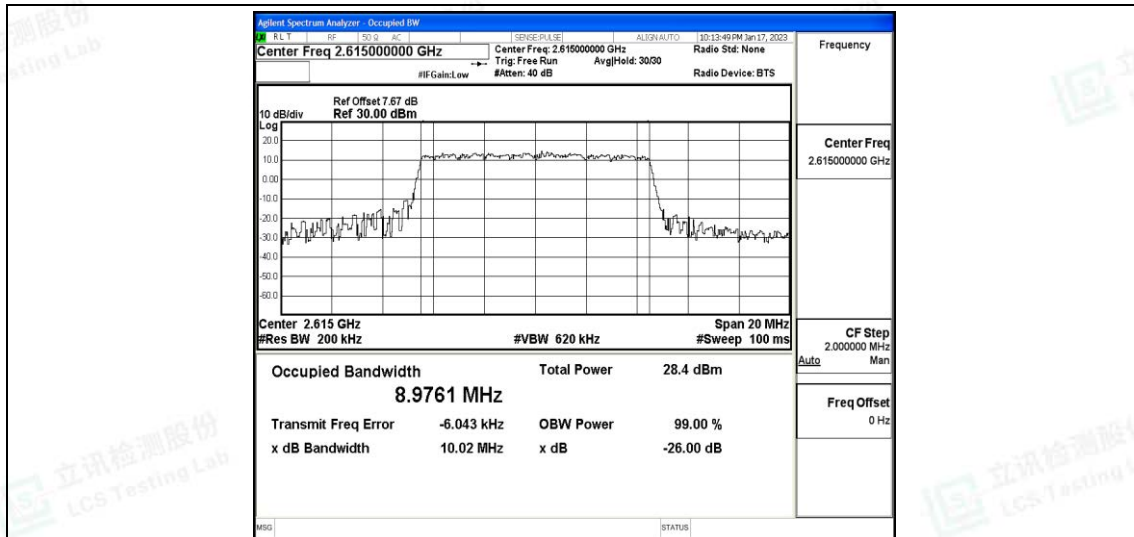


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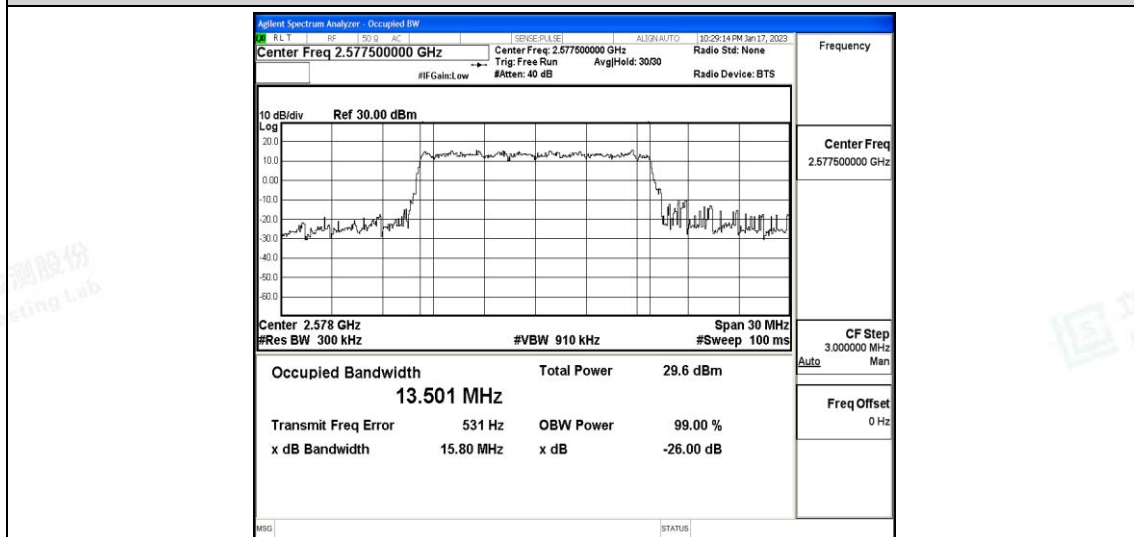


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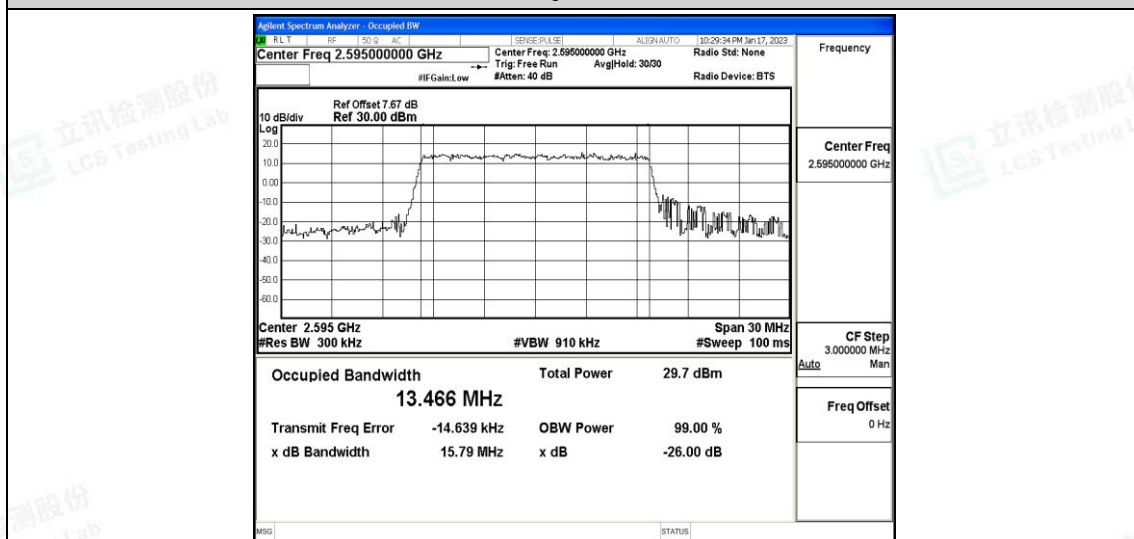




Band38-15MHz-QPSK-37825-75RB#0

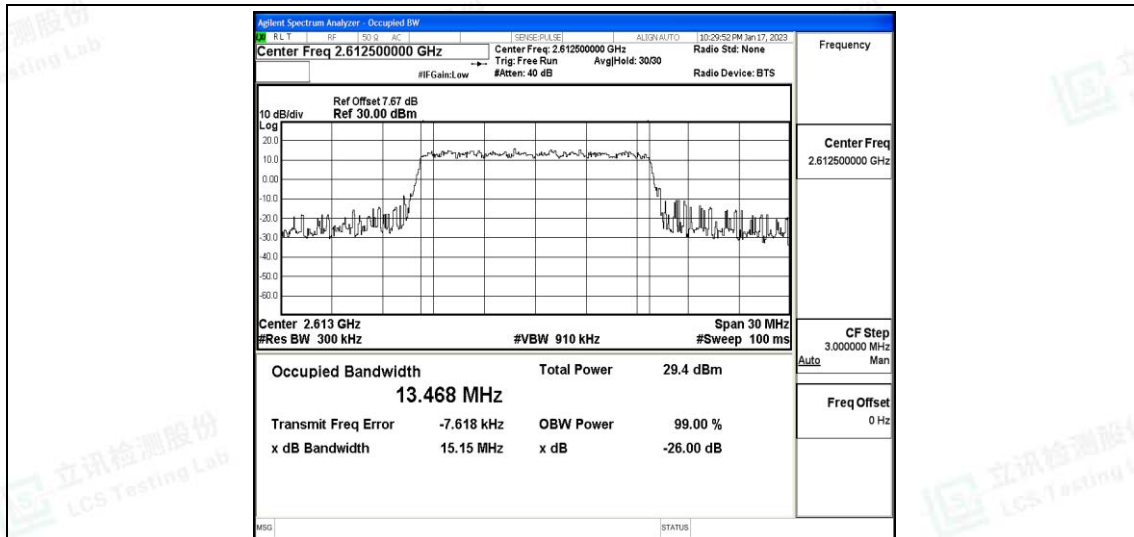


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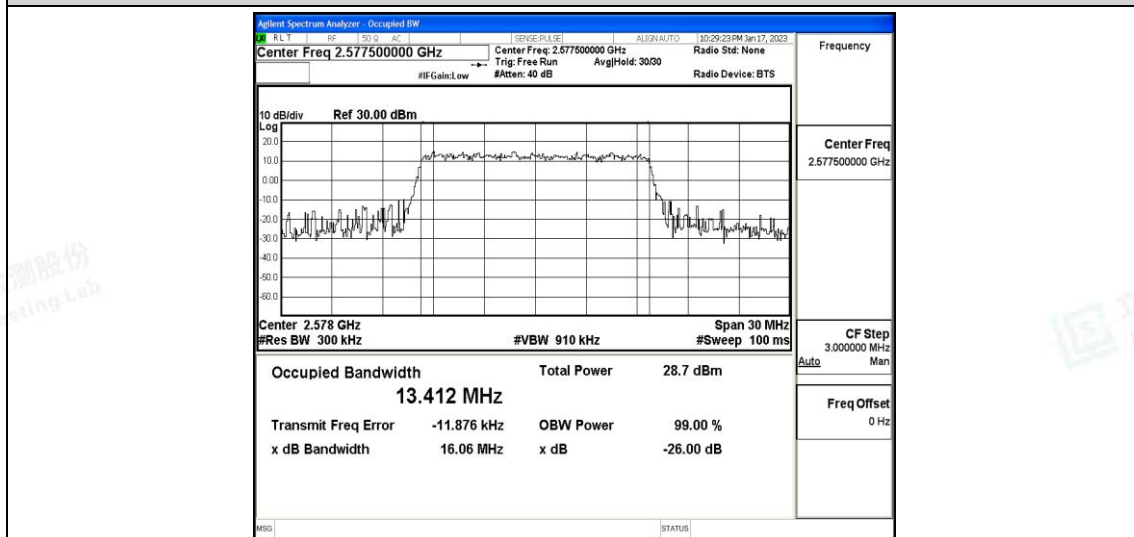


Band38-15MHz-QPSK-38175-75RB#0

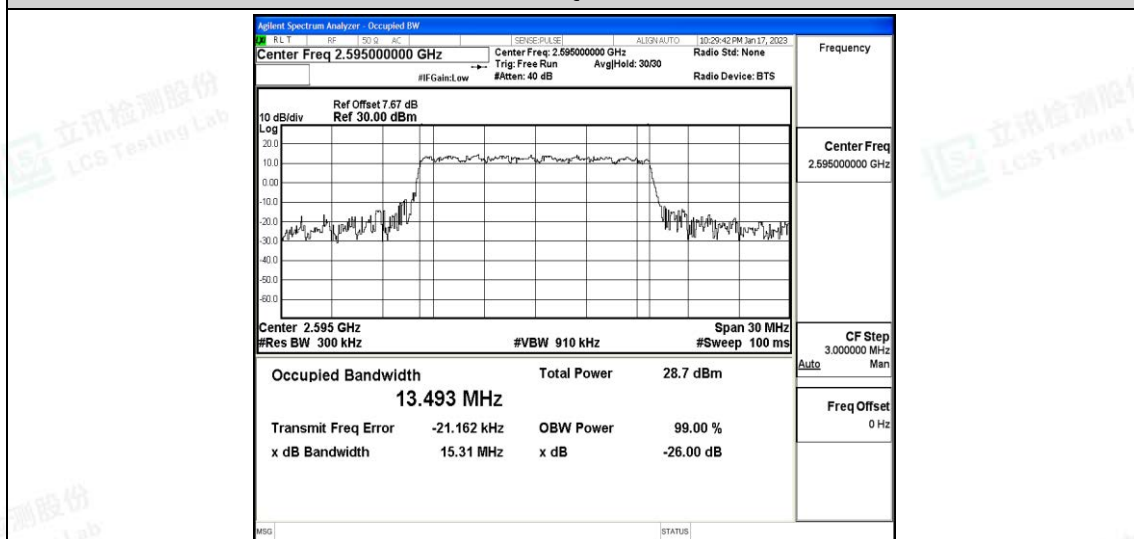




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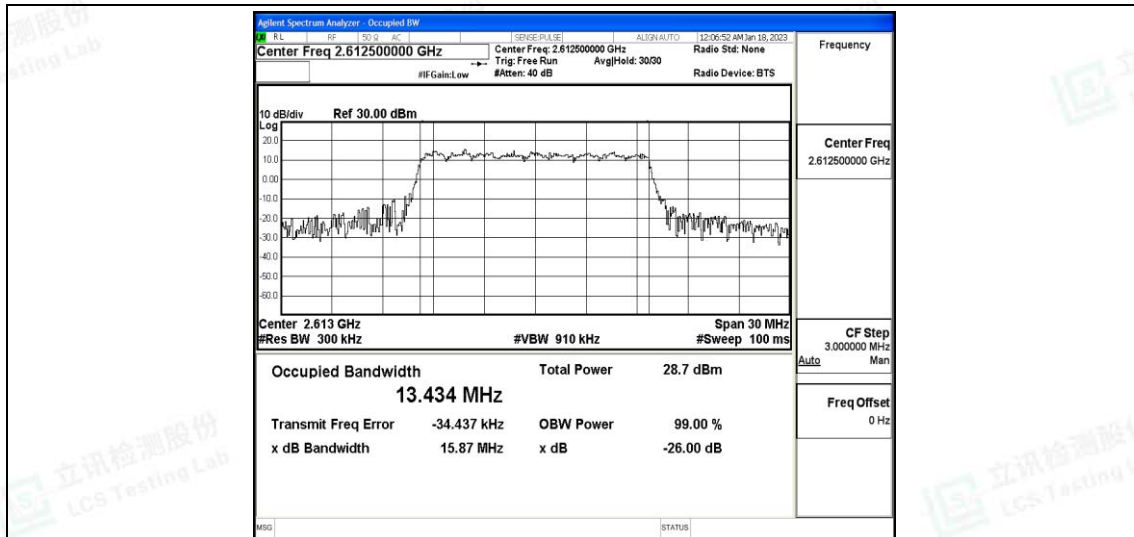


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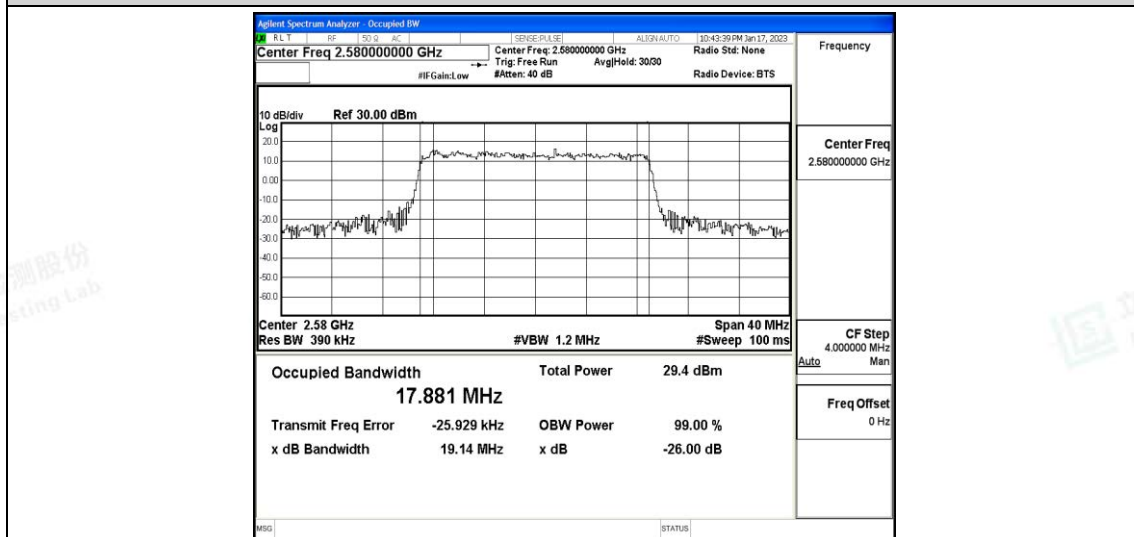


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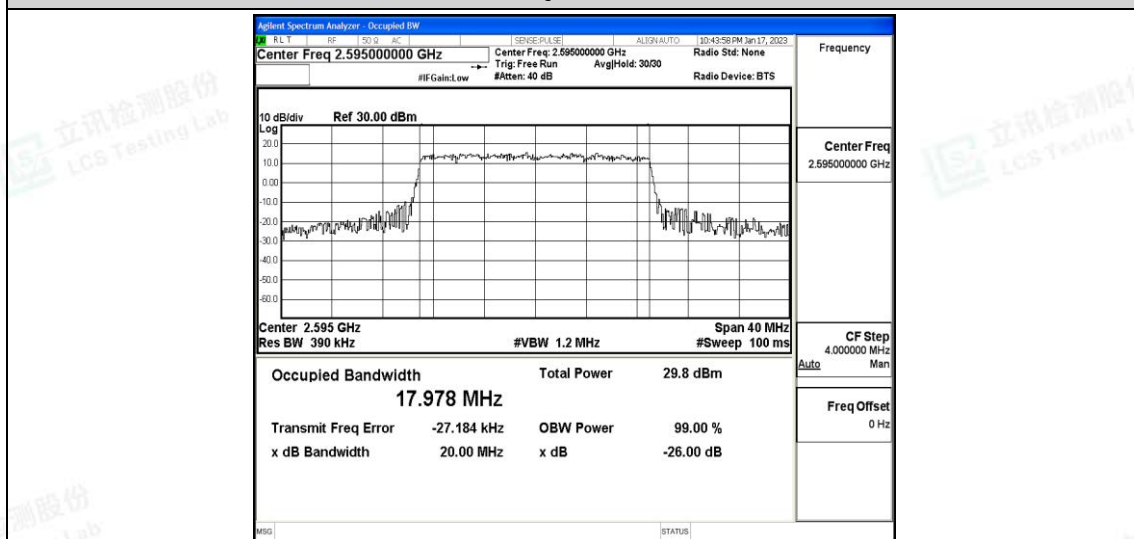




Band38-20MHz-QPSK-37850-100RB#0

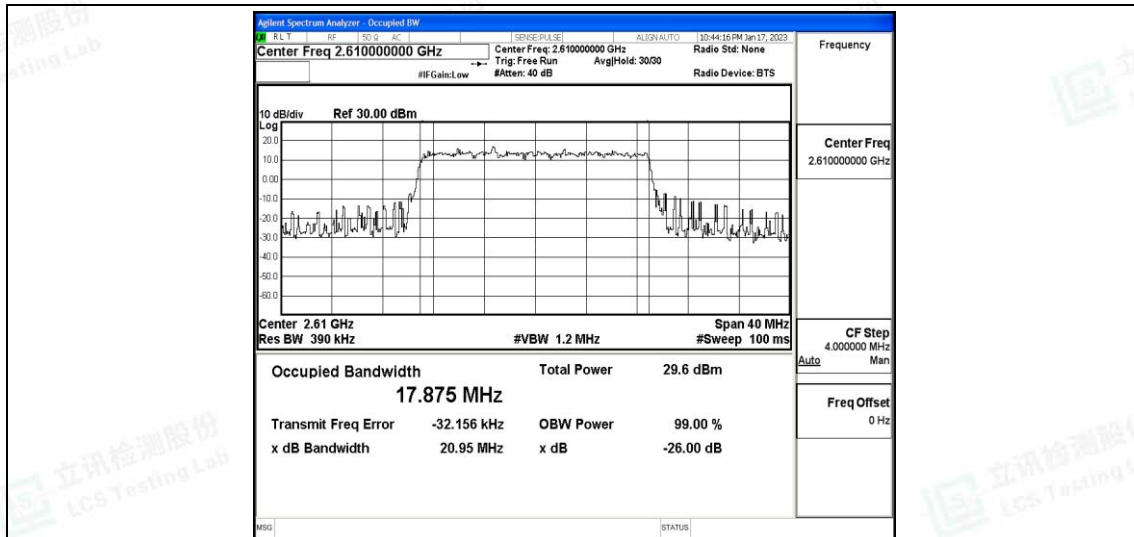


Band38-20MHz-QPSK-38000-100RB#0

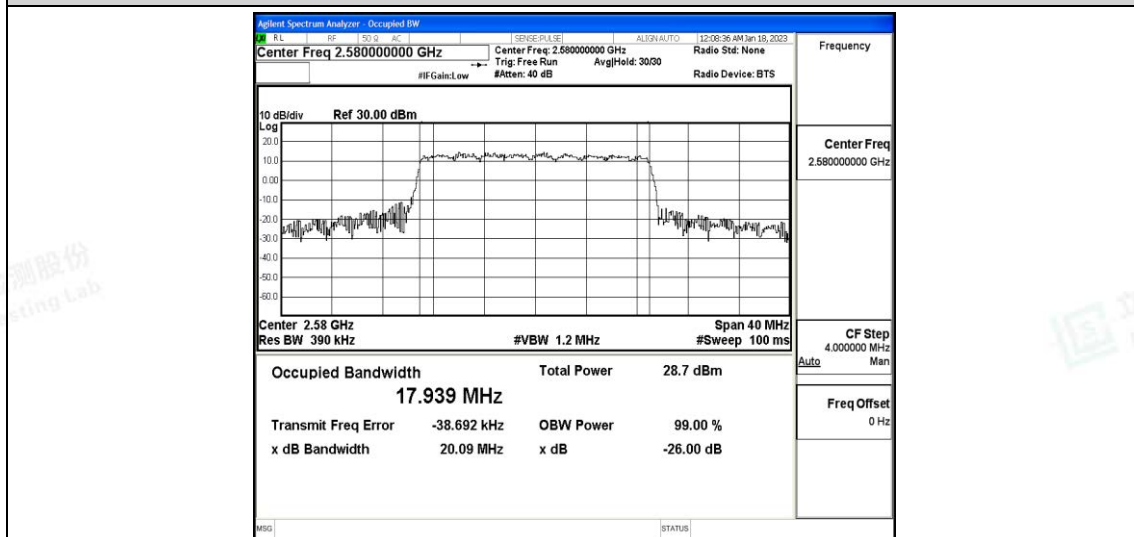


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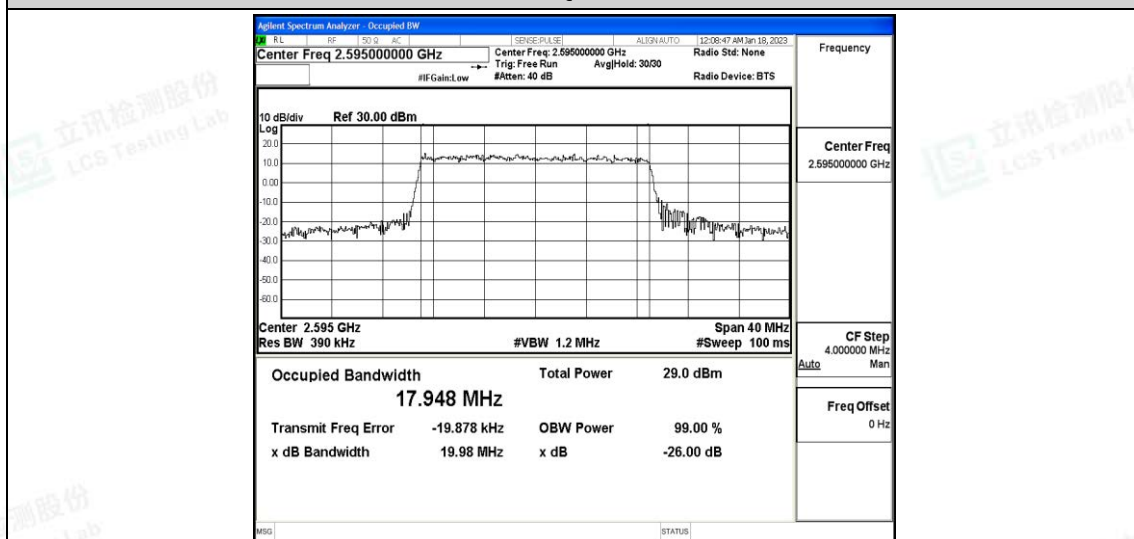




Band38-20MHz-16QAM-37850-100RB#0

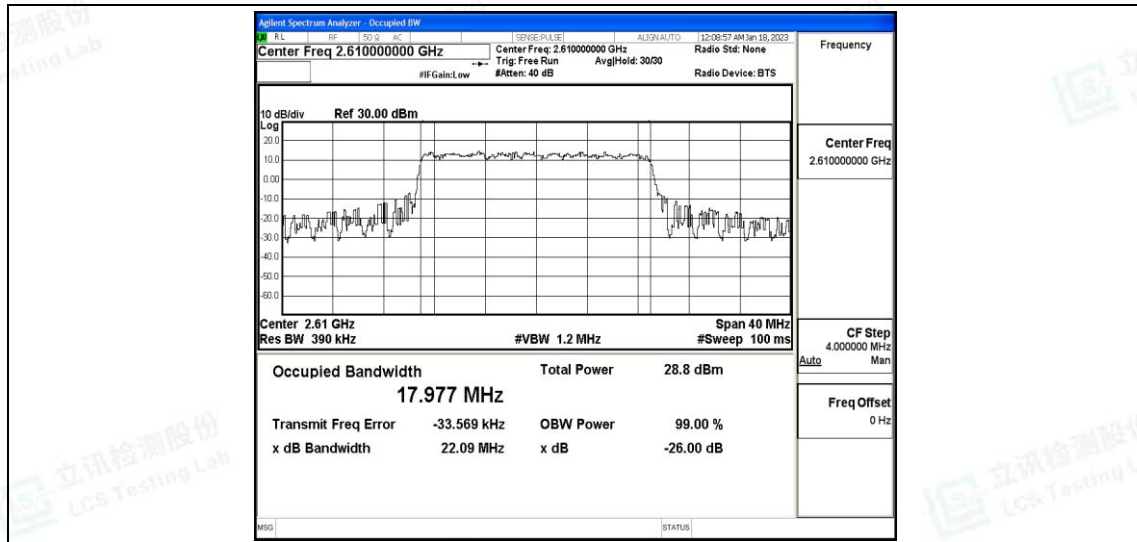


Band38-20MHz-16QAM-38000-100RB#0



Band38-20MHz-16QAM-38150-100RB#0





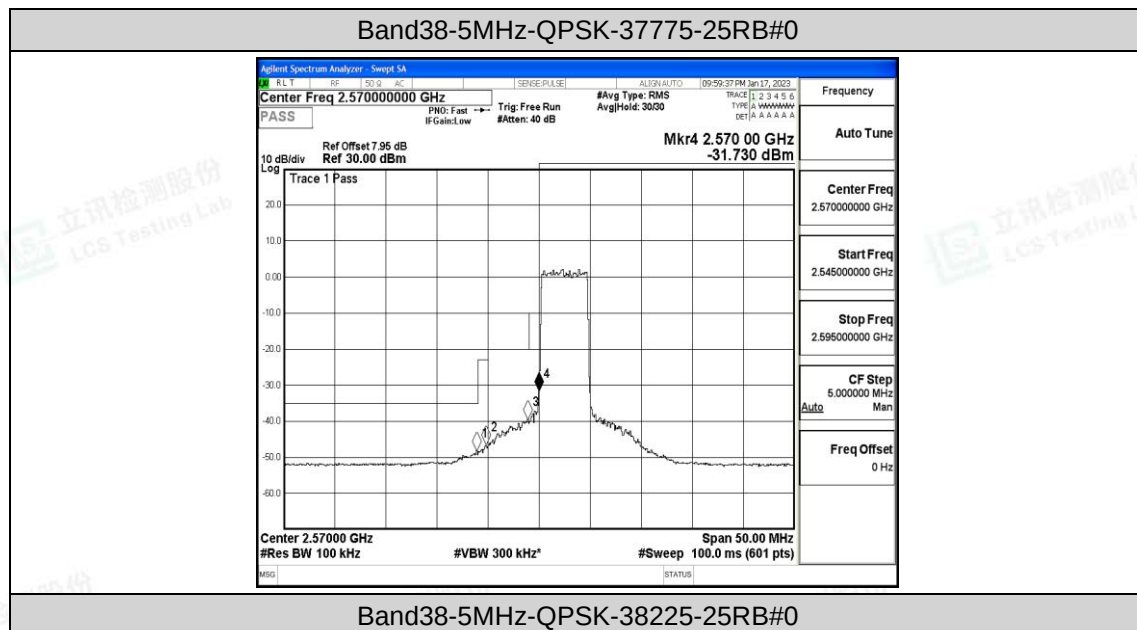


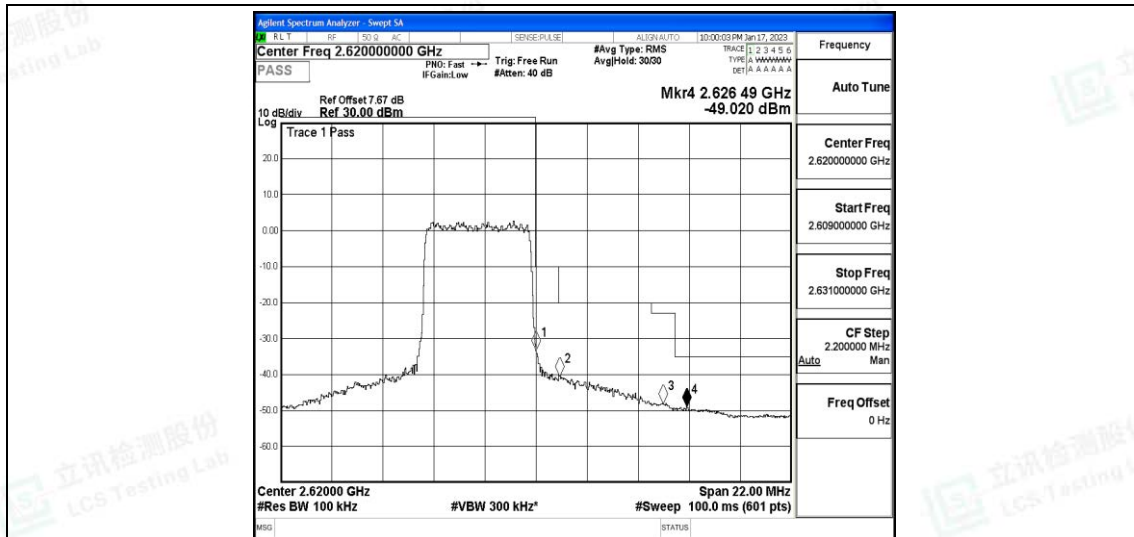
K.4 Band Edge

Test Result

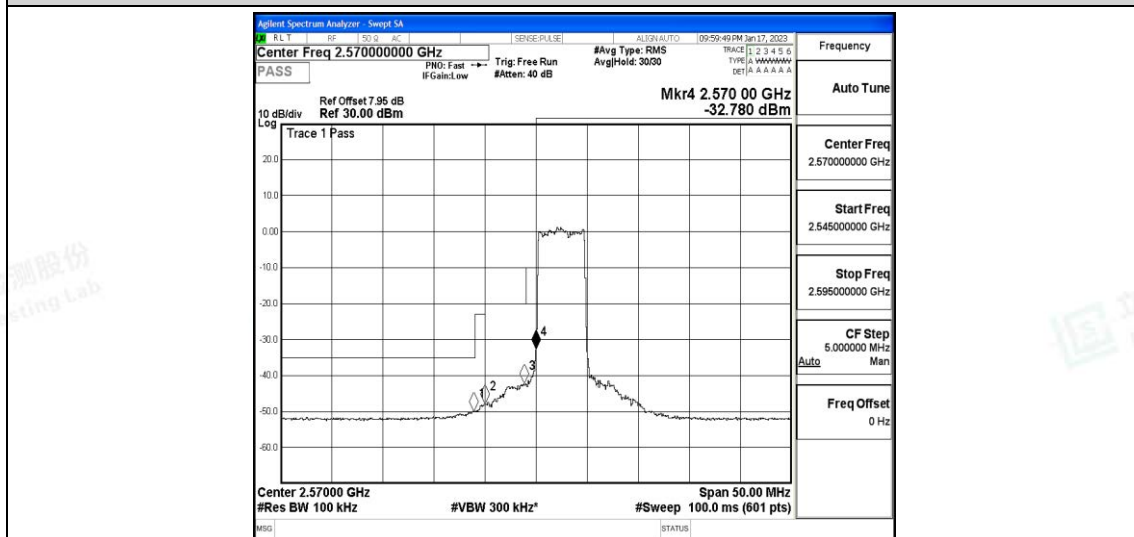
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	-48.22,-46.66,-39.48,-31.73	PASS
Band38	5MHz	QPSK	38225	25RB#0	-33.38,-40.44,-48.00,-49.02	PASS
Band38	5MHz	16QAM	37775	25RB#0	-49.95,-47.97,-42.24,-32.78	PASS
Band38	5MHz	16QAM	38225	25RB#0	-32.90,-41.08,-48.04,-49.84	PASS
Band38	10MHz	QPSK	37800	50RB#0	-45.68,-41.17,-38.71,-34.92	PASS
Band38	10MHz	QPSK	38200	50RB#0	-36.59,-39.64,-42.47,-46.40	PASS
Band38	10MHz	16QAM	37800	50RB#0	-46.71,-42.96,-39.35,-37.45	PASS
Band38	10MHz	16QAM	38200	50RB#0	-36.94,-40.25,-43.44,-47.17	PASS
Band38	15MHz	QPSK	37825	75RB#0	-44.74,-37.65,-35.23,-35.28	PASS
Band38	15MHz	QPSK	38175	75RB#0	-35.80,-36.23,-39.90,-44.63	PASS
Band38	15MHz	16QAM	37825	75RB#0	-45.59,-40.15,-38.76,-36.45	PASS
Band38	15MHz	16QAM	38175	75RB#0	-36.22,-39.13,-41.52,-45.63	PASS
Band38	20MHz	QPSK	37850	100RB#0	-44.07,-39.51,-38.19,-37.14	PASS
Band38	20MHz	QPSK	38150	100RB#0	-37.30,-39.15,-40.84,-44.77	PASS
Band38	20MHz	16QAM	37850	100RB#0	-44.65,-41.25,-39.28,-37.82	PASS
Band38	20MHz	16QAM	38150	100RB#0	-38.30,-40.02,-41.67,-45.66	PASS

Test Graphs

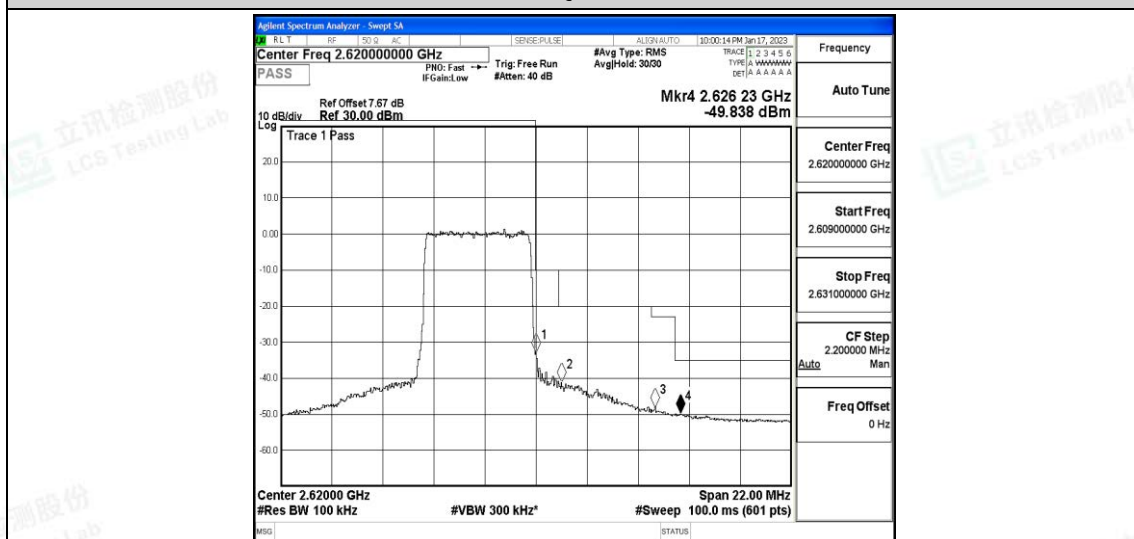




Band38-5MHz-16QAM-37775-25RB#0

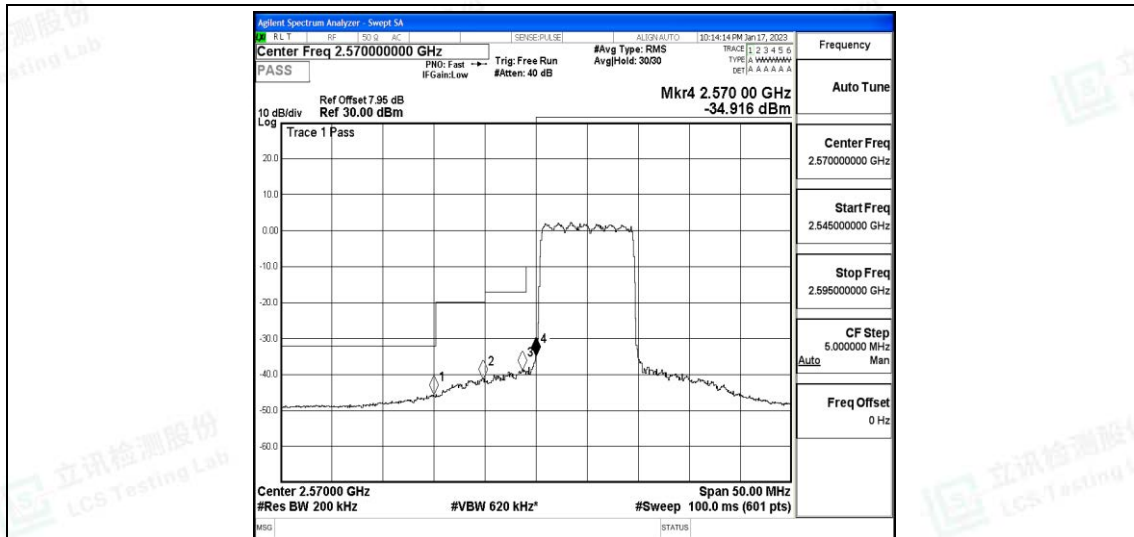


Band38-5MHz-16QAM-38225-25RB#0

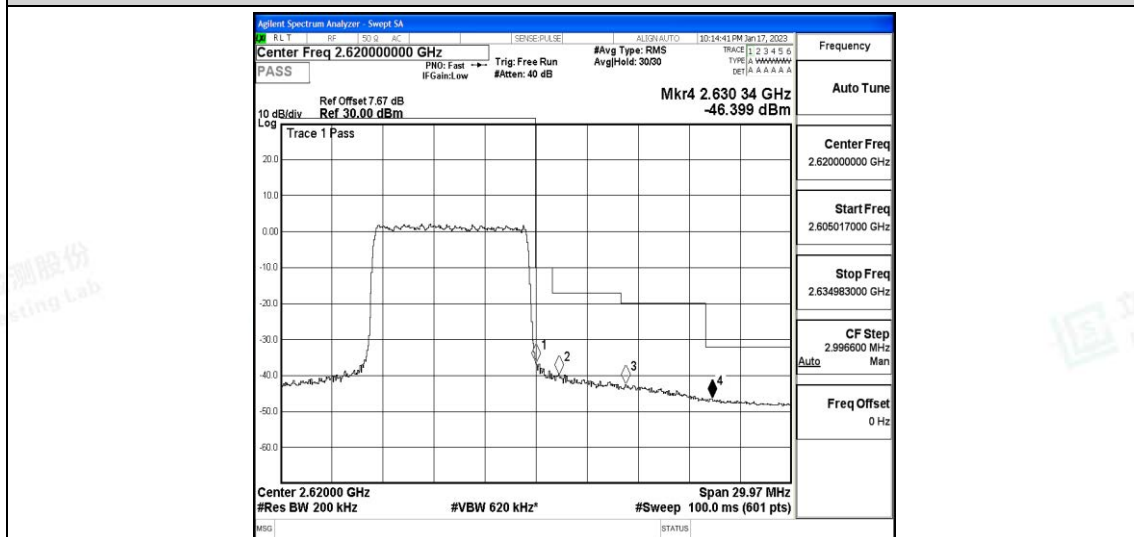


Band38-10MHz-QPSK-37800-50RB#0

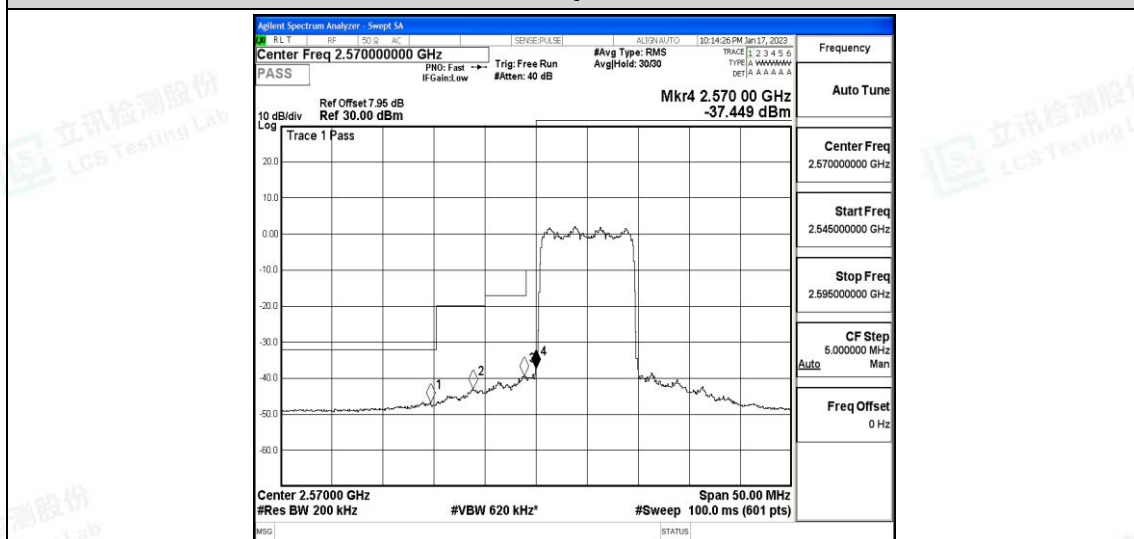




Band38-10MHz-QPSK-38200-50RB#0

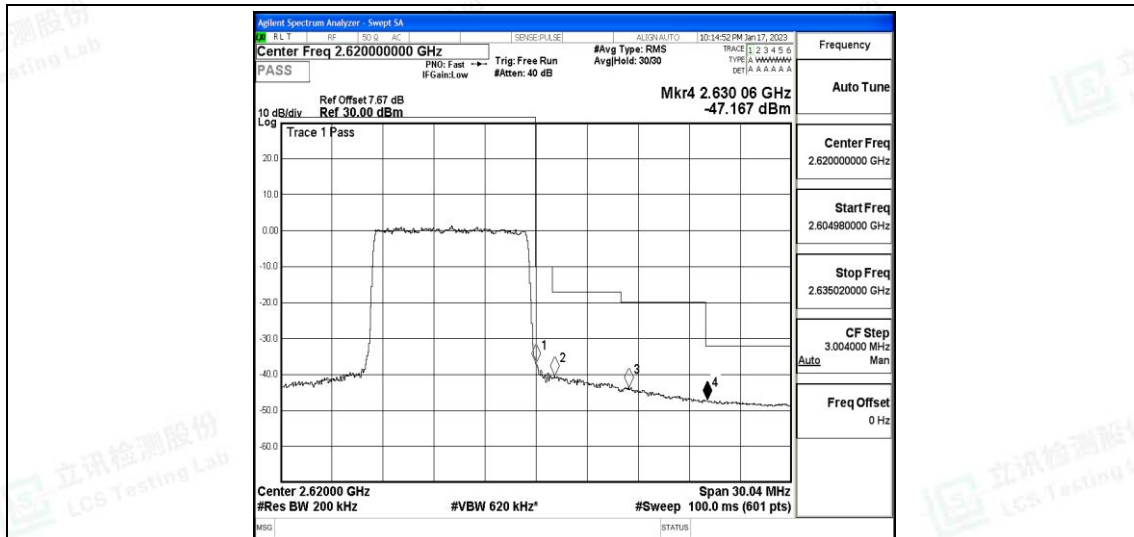


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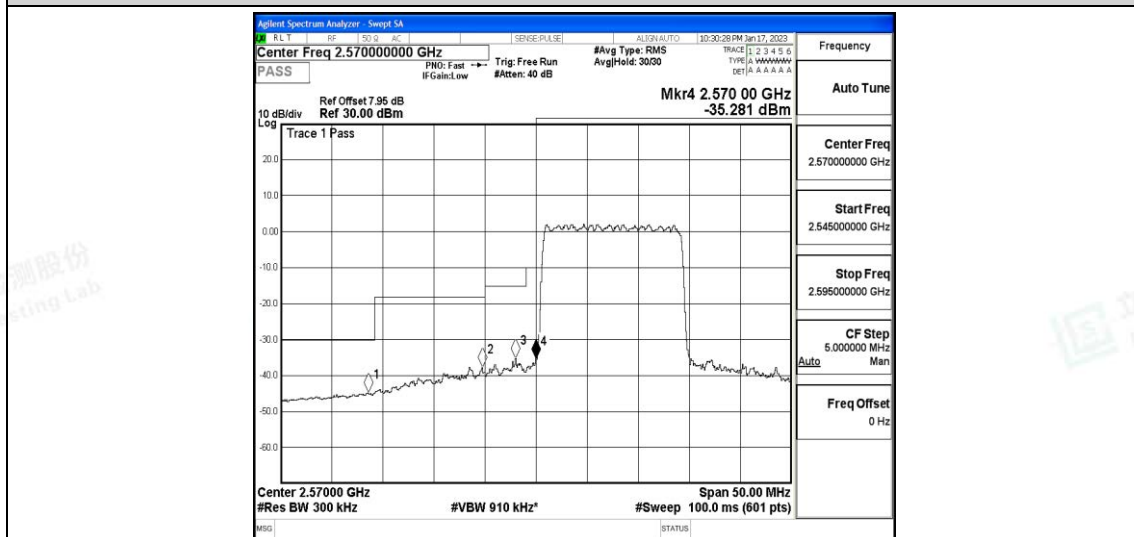


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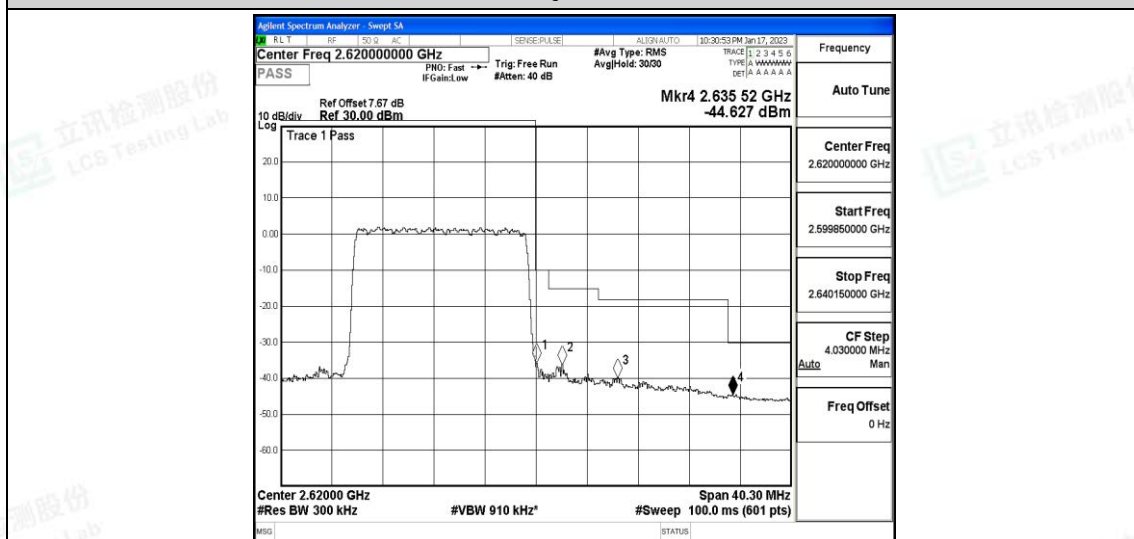




Band38-15MHz-QPSK-37825-75RB#0



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



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

