



Appendix L: Test Data for E-UTRA Band 41

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





L.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.45	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.44	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.45	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.26	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.24	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.28	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.30	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.52	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.56	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.61	PASS
Band41	5MHz	QPSK	40620	12RB#0	21.31	PASS
Band41	5MHz	QPSK	40620	12RB#6	21.34	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.33	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.35	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.72	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.76	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.77	PASS
Band41	5MHz	QPSK	41565	12RB#0	21.62	PASS
Band41	5MHz	QPSK	41565	12RB#6	21.63	PASS
Band41	5MHz	QPSK	41565	12RB#13	21.61	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.66	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.59	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.59	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.59	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.25	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.24	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.25	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.30	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.66	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.69	PASS





Band41	5MHz	16QAM	40620	1RB#24	21.71	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.32	PASS
Band41	5MHz	16QAM	40620	12RB#6	20.31	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.31	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.35	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.90	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.96	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.94	PASS
Band41	5MHz	16QAM	41565	12RB#0	20.59	PASS
Band41	5MHz	16QAM	41565	12RB#6	20.59	PASS
Band41	5MHz	16QAM	41565	12RB#13	20.59	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.64	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.30	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.41	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.36	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.24	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.24	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.30	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.28	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.33	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.43	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.45	PASS
Band41	10MHz	QPSK	40620	25RB#0	21.36	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.36	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.33	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.36	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.55	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.69	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.61	PASS
Band41	10MHz	QPSK	41540	25RB#0	21.60	PASS
Band41	10MHz	QPSK	41540	25RB#12	21.60	PASS
Band41	10MHz	QPSK	41540	25RB#25	21.60	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.63	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.60	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.67	PASS





Band41	10MHz	16QAM	39700	1RB#49	21.67	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.31	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.29	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.38	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.27	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.61	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.74	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.75	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.38	PASS
Band41	10MHz	16QAM	40620	25RB#12	20.37	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.42	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.87	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.95	PASS
Band41	10MHz	16QAM	41540	25RB#0	20.67	PASS
Band41	10MHz	16QAM	41540	25RB#12	20.66	PASS
Band41	10MHz	16QAM	41540	25RB#25	20.66	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.59	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.23	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.37	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.38	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.26	PASS
Band41	15MHz	QPSK	39725	38RB#18	21.26	PASS
Band41	15MHz	QPSK	39725	38RB#37	21.26	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.26	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.24	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.35	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.42	PASS
Band41	15MHz	QPSK	40620	38RB#0	21.33	PASS
Band41	15MHz	QPSK	40620	38RB#18	21.32	PASS
Band41	15MHz	QPSK	40620	38RB#37	21.32	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.47	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.59	PASS





Band41	15MHz	QPSK	41515	1RB#74	22.56	PASS
Band41	15MHz	QPSK	41515	38RB#0	21.56	PASS
Band41	15MHz	QPSK	41515	38RB#18	21.57	PASS
Band41	15MHz	QPSK	41515	38RB#37	21.59	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.56	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.57	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.69	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.66	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.27	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.26	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.26	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.24	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.57	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.72	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.72	PASS
Band41	15MHz	16QAM	40620	38RB#0	21.32	PASS
Band41	15MHz	16QAM	40620	38RB#18	21.32	PASS
Band41	15MHz	16QAM	40620	38RB#37	21.33	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.33	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.81	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.94	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.92	PASS
Band41	15MHz	16QAM	41515	38RB#0	21.57	PASS
Band41	15MHz	16QAM	41515	38RB#18	21.56	PASS
Band41	15MHz	16QAM	41515	38RB#37	21.56	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.58	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.15	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.30	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.19	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.18	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.38	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.26	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.07	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.34	PASS





Band41	20MHz	QPSK	40620	1RB#99	22.38	PASS
Band41	20MHz	QPSK	40620	50RB#0	21.24	PASS
Band41	20MHz	QPSK	40620	50RB#25	21.30	PASS
Band41	20MHz	QPSK	40620	50RB#50	21.39	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.32	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.56	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.51	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.63	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.64	PASS
Band41	20MHz	QPSK	41490	50RB#50	21.56	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.61	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.31	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.51	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.46	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.19	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.18	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.36	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.24	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.27	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.53	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.54	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.25	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.28	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.36	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.30	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.51	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.73	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.69	PASS
Band41	20MHz	16QAM	41490	50RB#0	20.63	PASS
Band41	20MHz	16QAM	41490	50RB#25	20.64	PASS
Band41	20MHz	16QAM	41490	50RB#50	20.52	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.55	PASS





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

Test Result

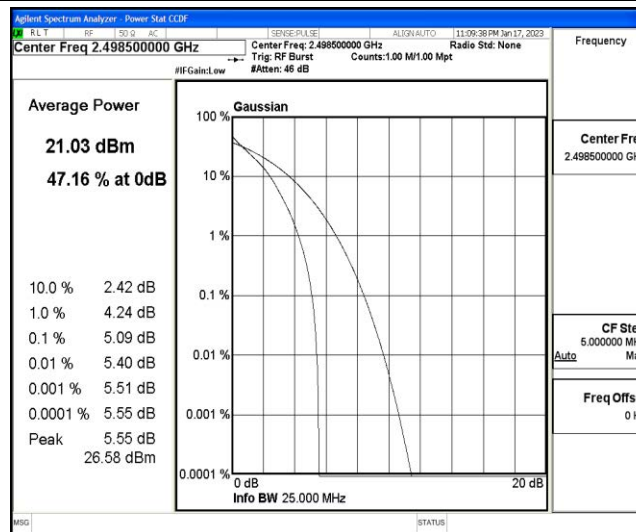
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	5.09	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.97	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.34	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	5.86	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	5.77	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.05	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.09	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	4.98	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.28	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	5.95	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	5.87	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.16	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.40	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.34	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.59	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	6.09	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.03	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.25	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.19	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.19	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.32	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.02	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.01	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.12	13	PASS



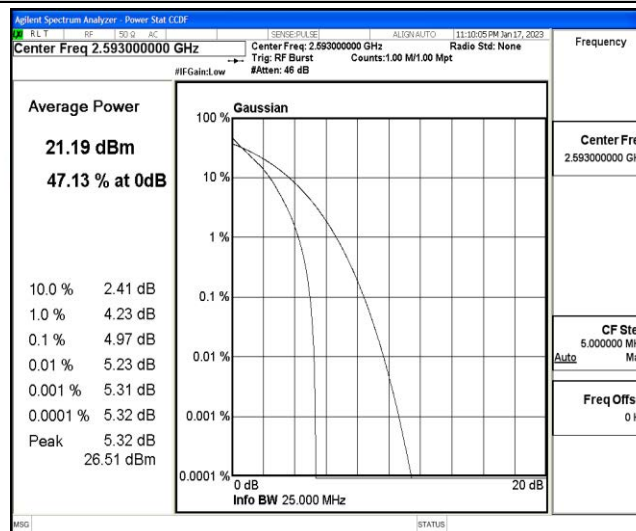


Test Graphs

Band41-5MHz-QPSK-39675-25RB#0

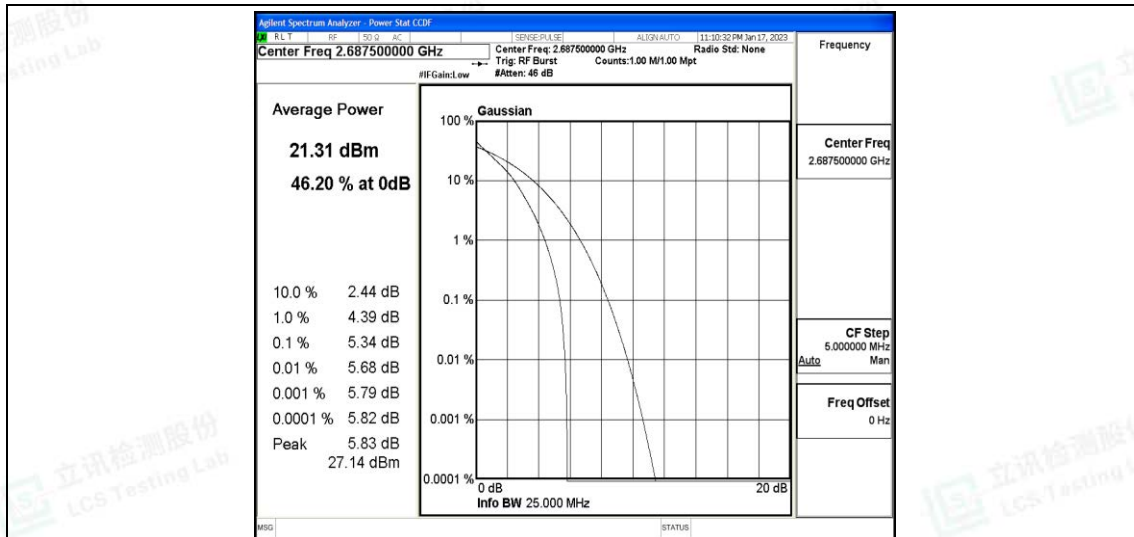


Band41-5MHz-QPSK-40620-25RB#0

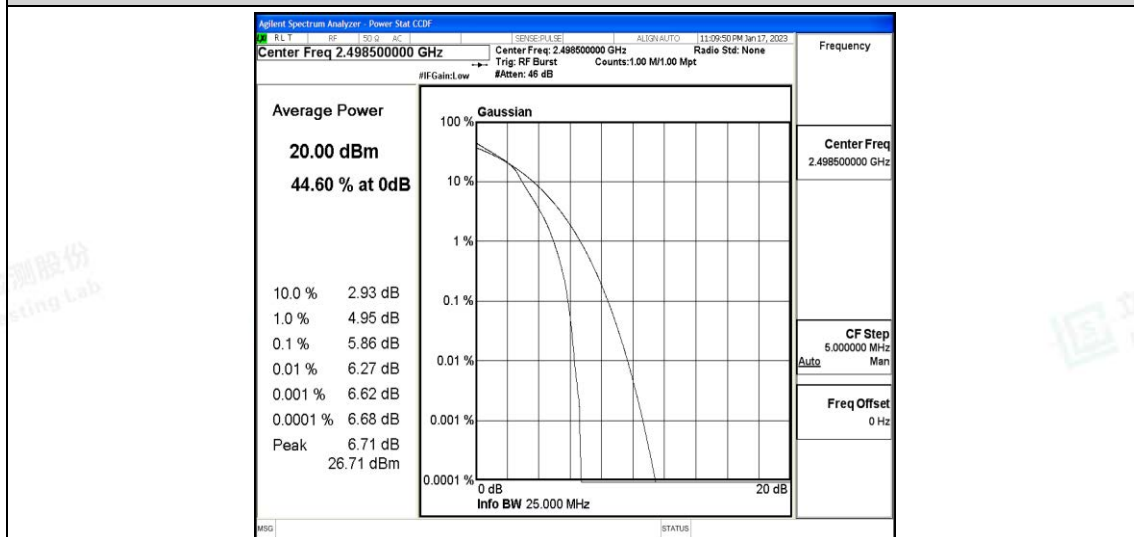


Band41-5MHz-QPSK-41565-25RB#0

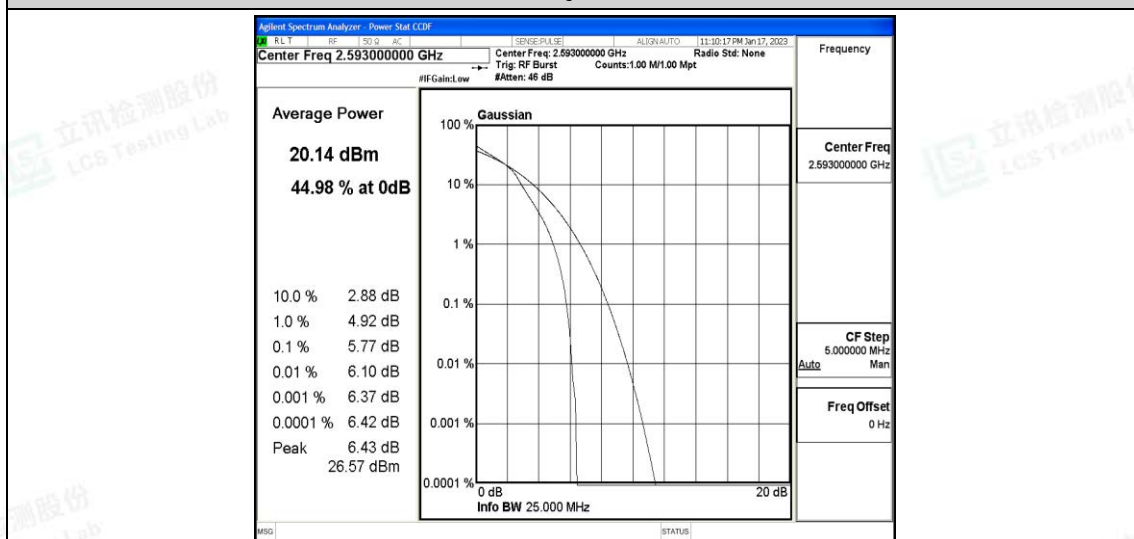




Band41-5MHz-16QAM-39675-25RB#0

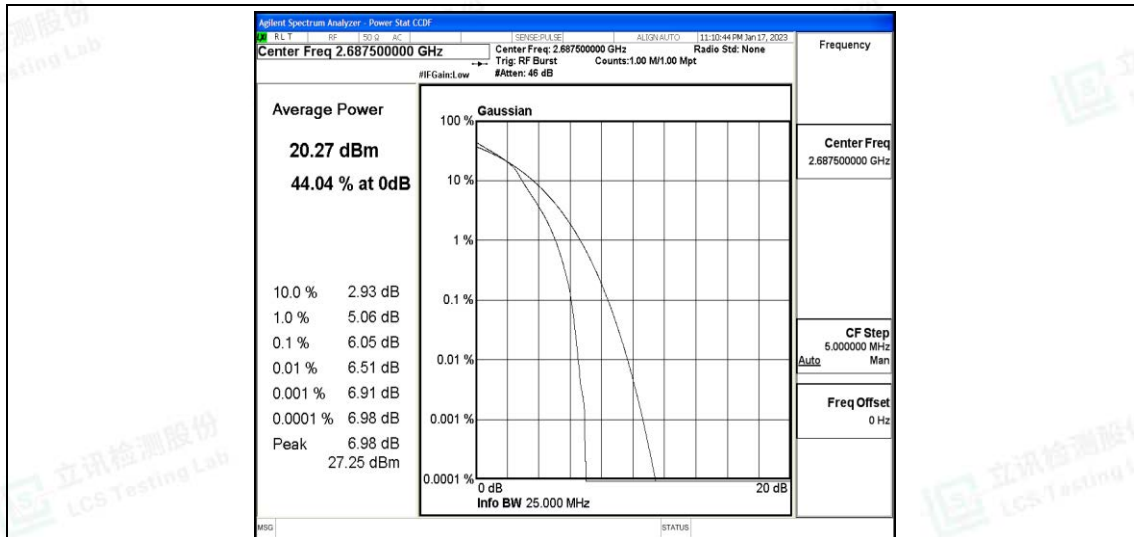


Band41-5MHz-16QAM-40620-25RB#0

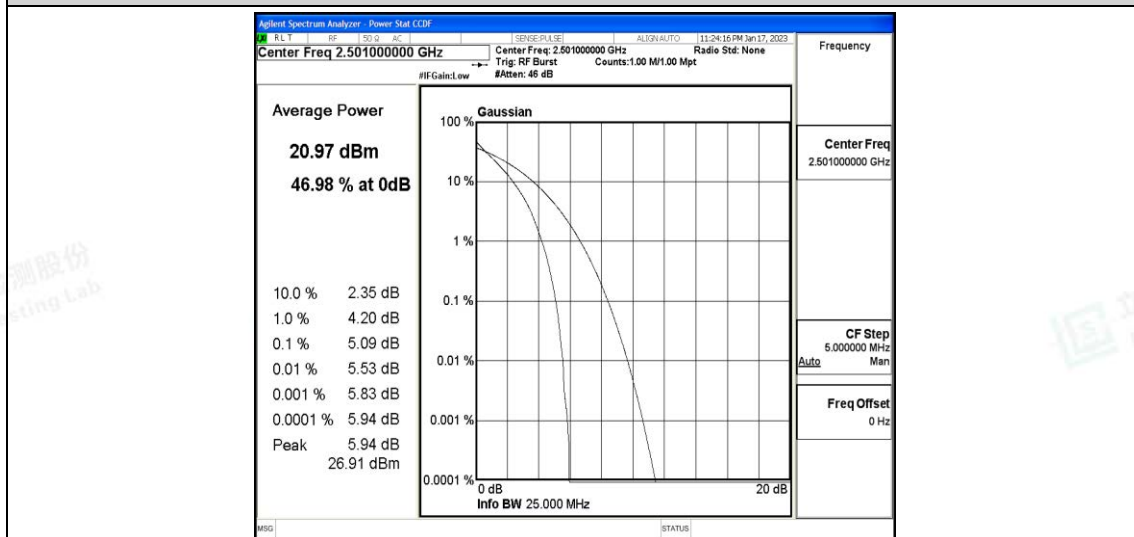


Band41-5MHz-16QAM-41565-25RB#0

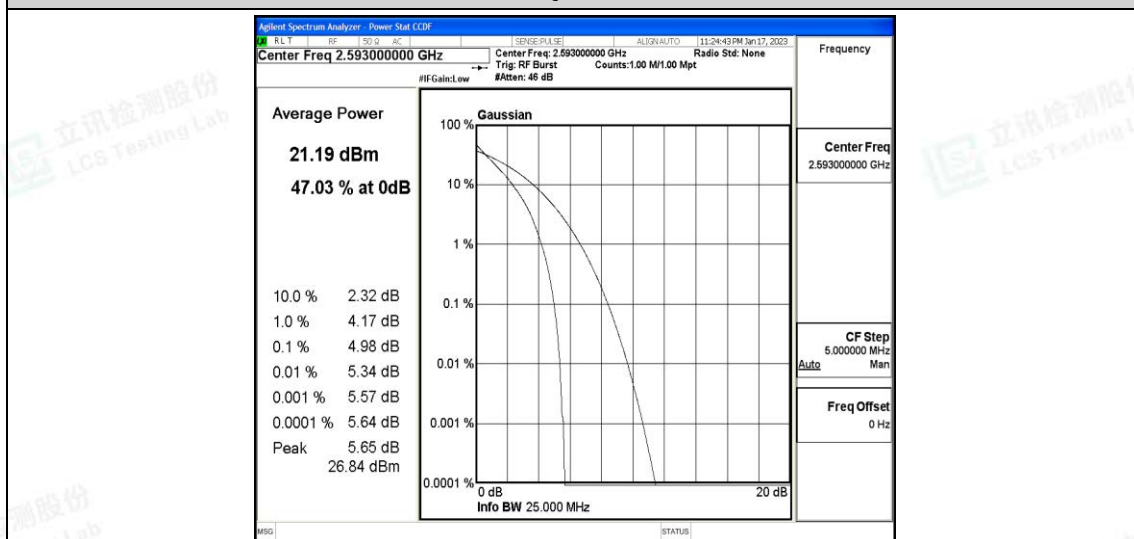




Band41-10MHz-QPSK-39700-50RB#0

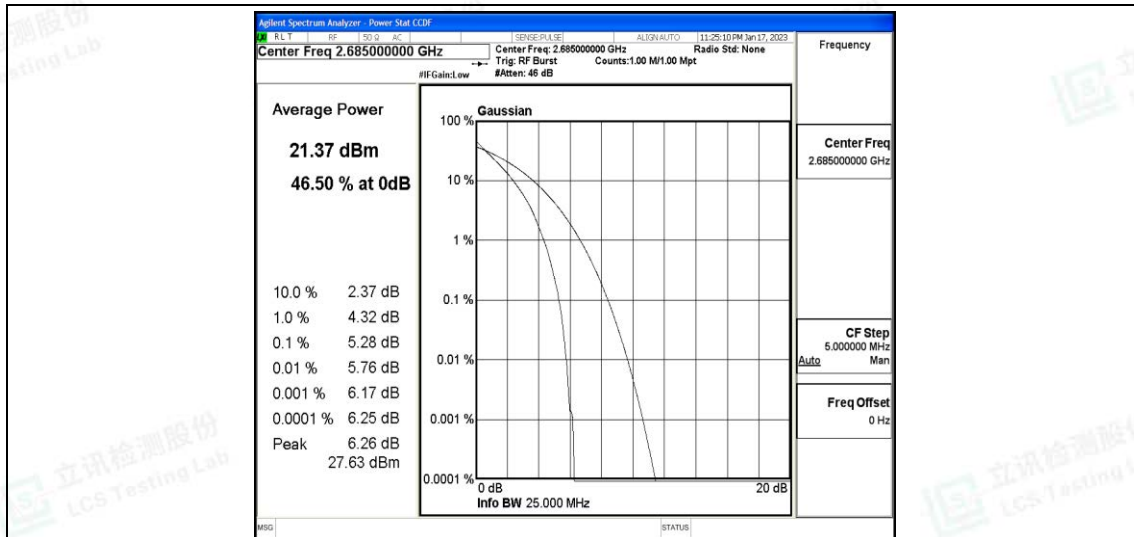


Band41-10MHz-QPSK-40620-50RB#0

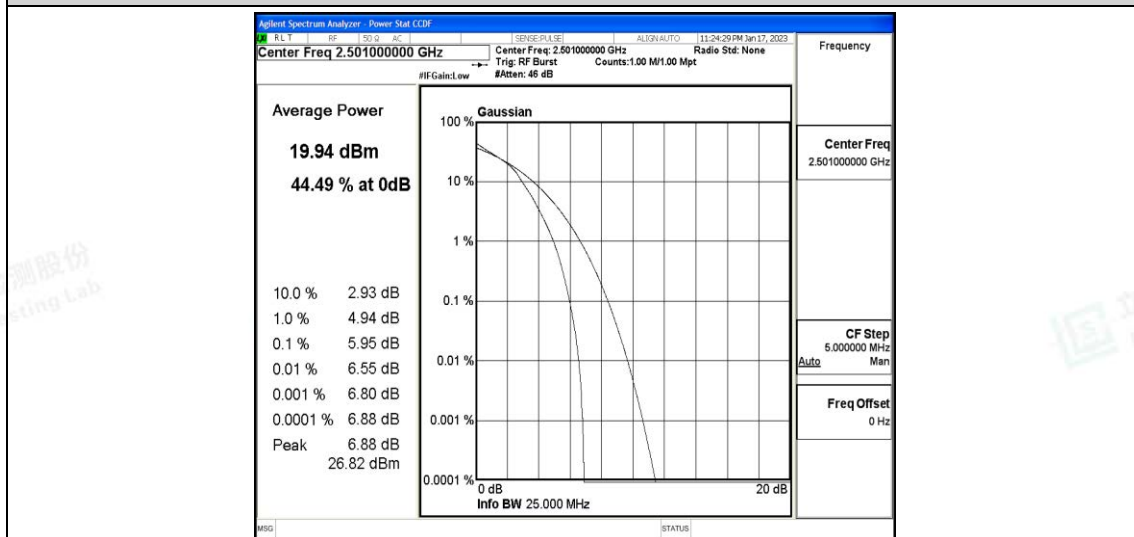


Band41-10MHz-QPSK-41540-50RB#0

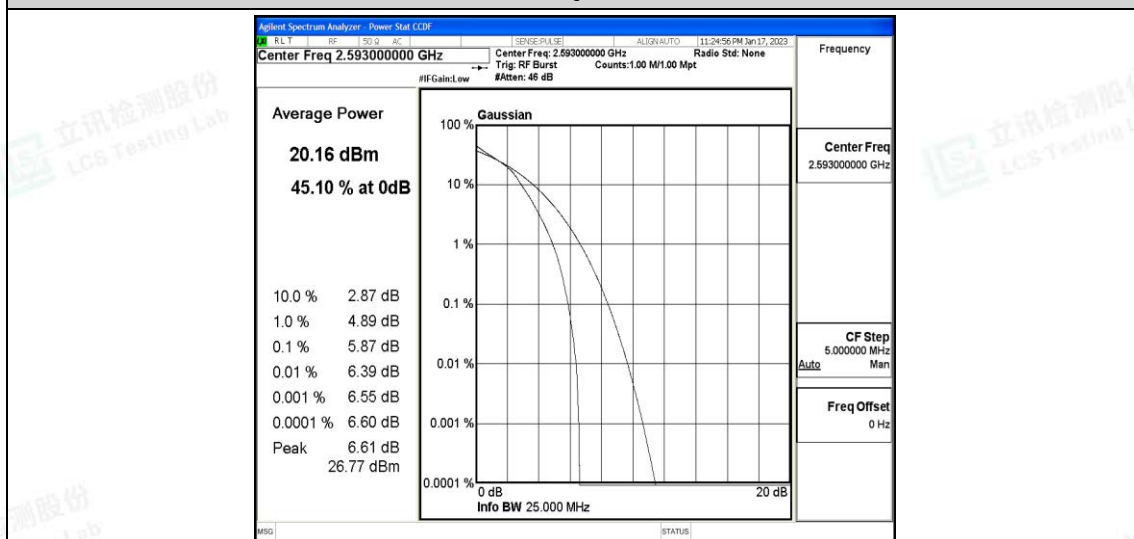




Band41-10MHz-16QAM-39700-50RB#0

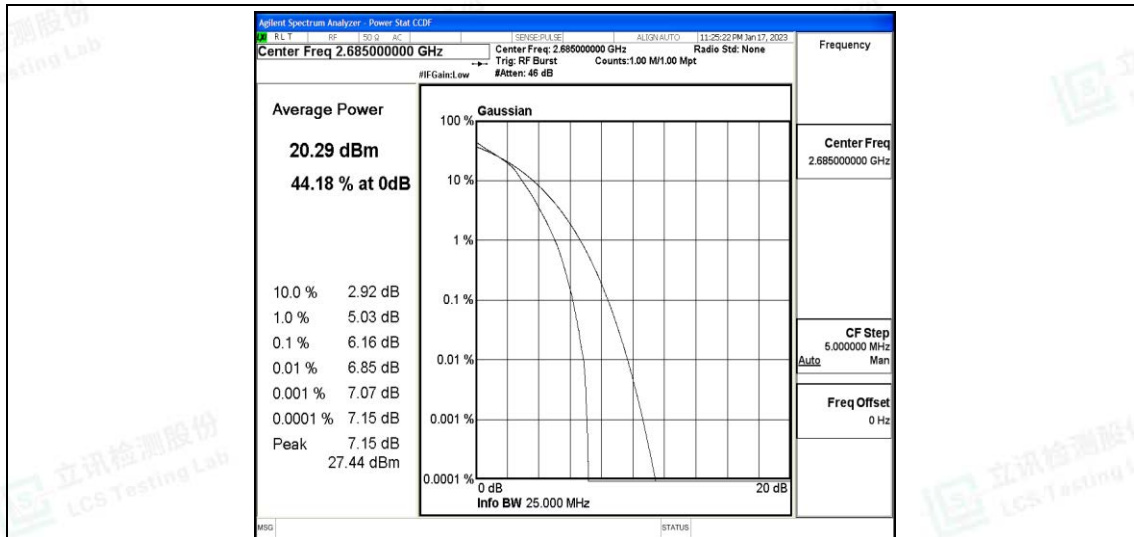


Band41-10MHz-16QAM-40620-50RB#0

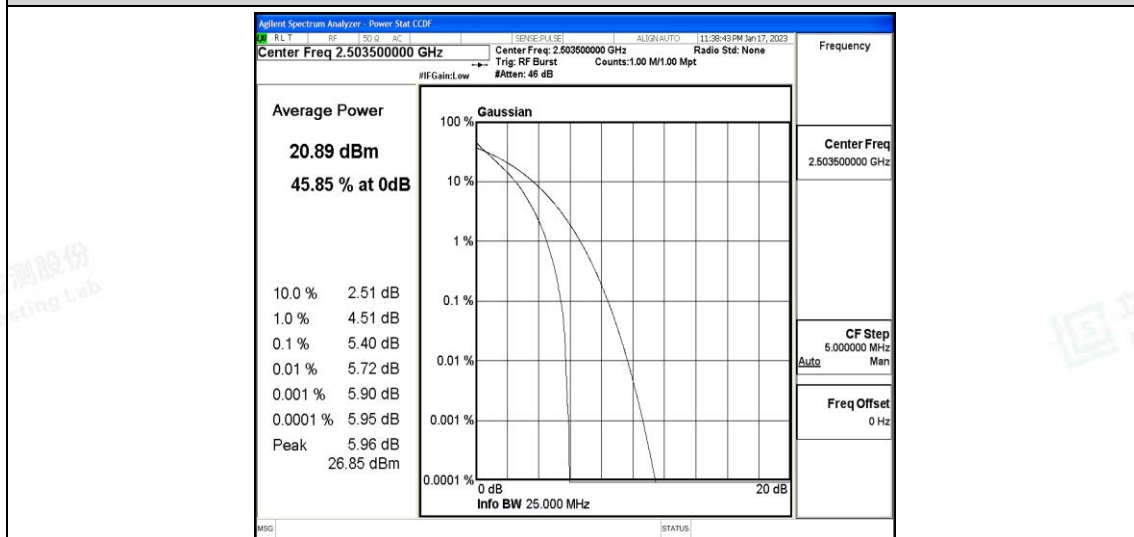


Band41-10MHz-16QAM-41540-50RB#0

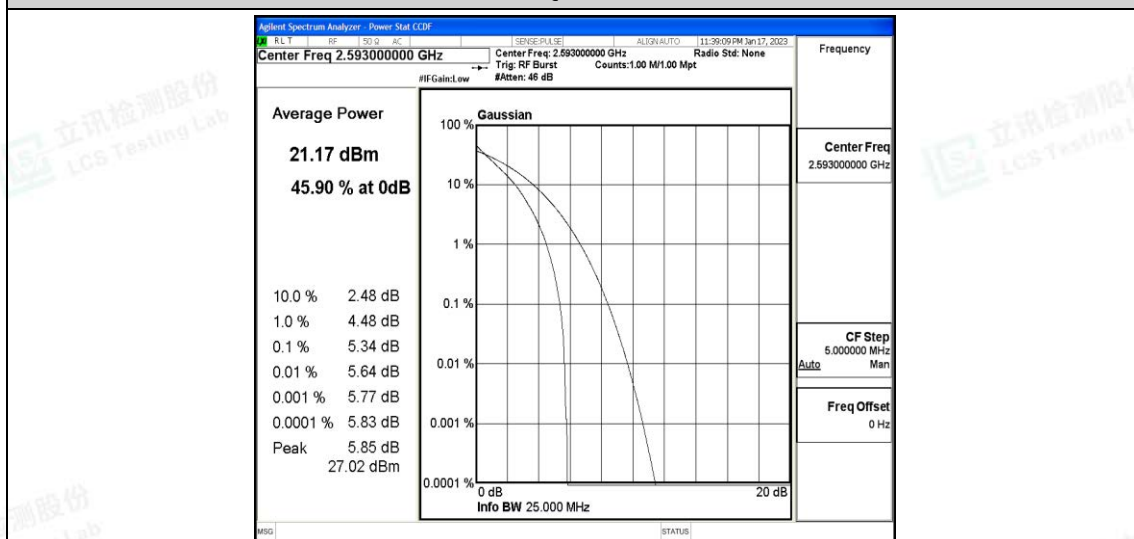




Band41-15MHz-QPSK-39725-75RB#0

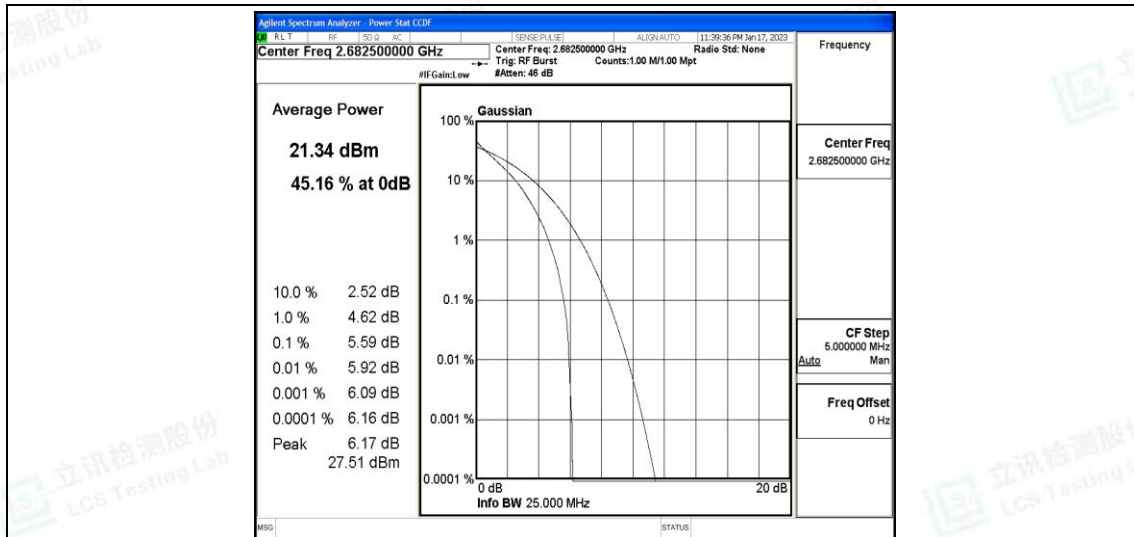


Band41-15MHz-QPSK-40620-75RB#0

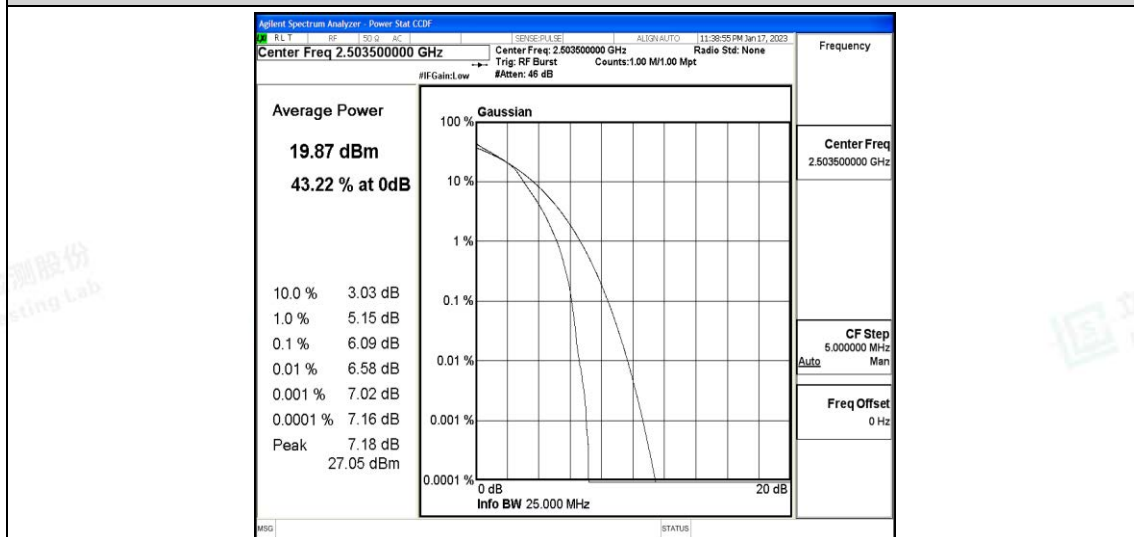


Band41-15MHz-QPSK-41515-75RB#0

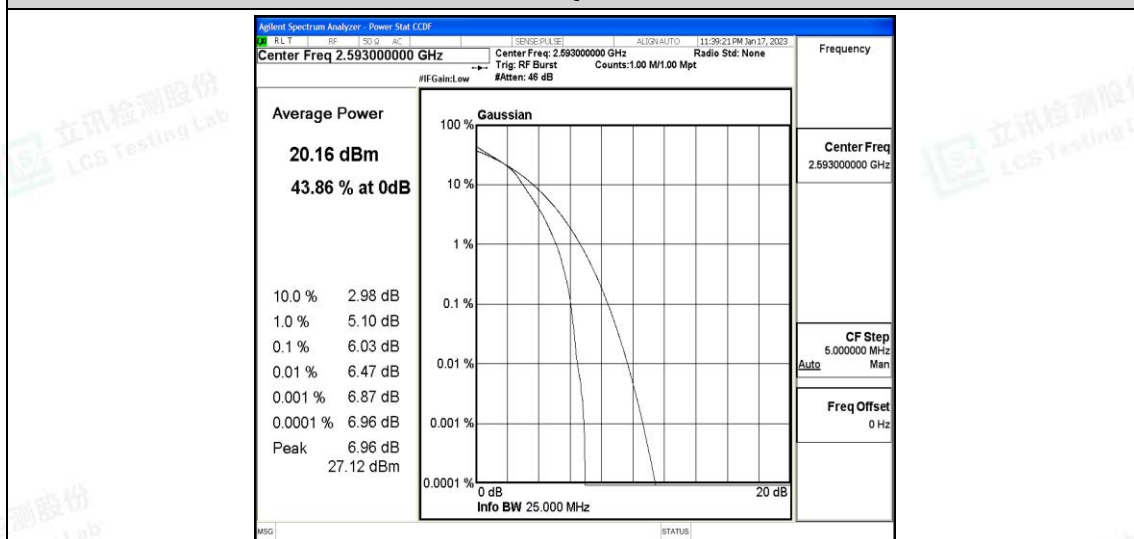




Band41-15MHz-16QAM-39725-75RB#0

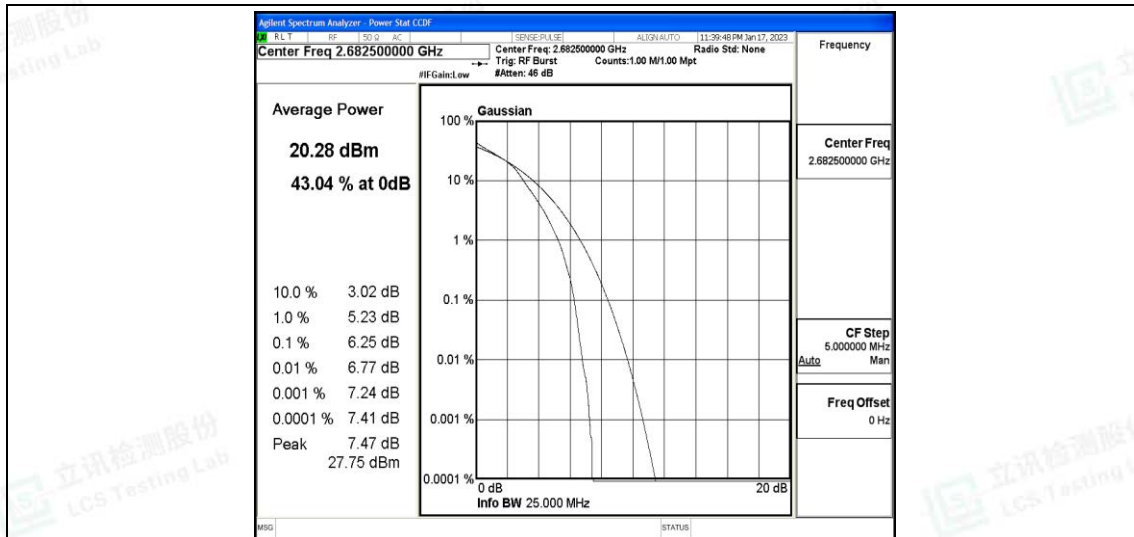


Band41-15MHz-16QAM-40620-75RB#0

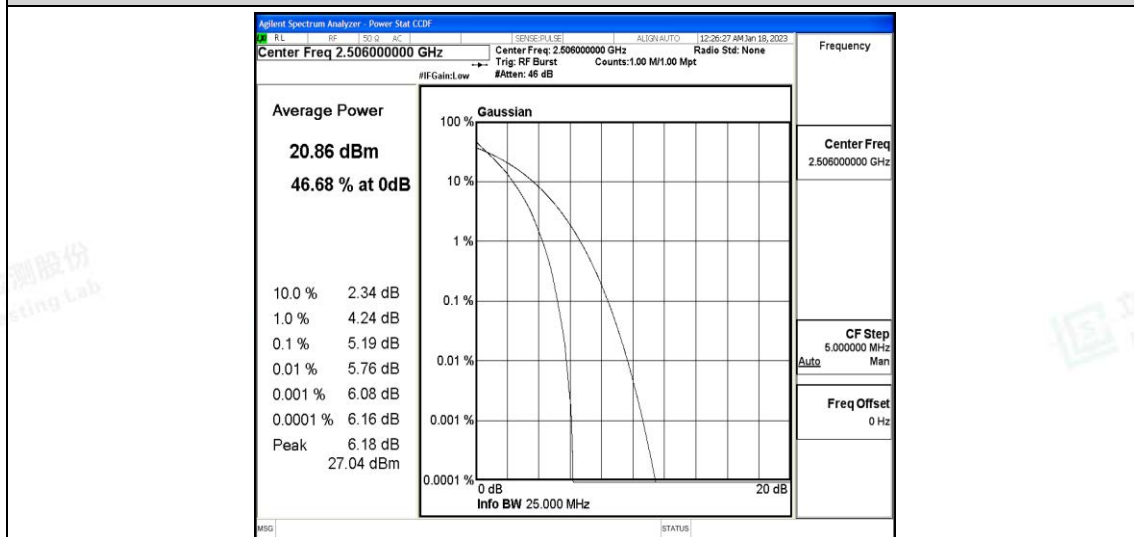


Band41-15MHz-16QAM-41515-75RB#0

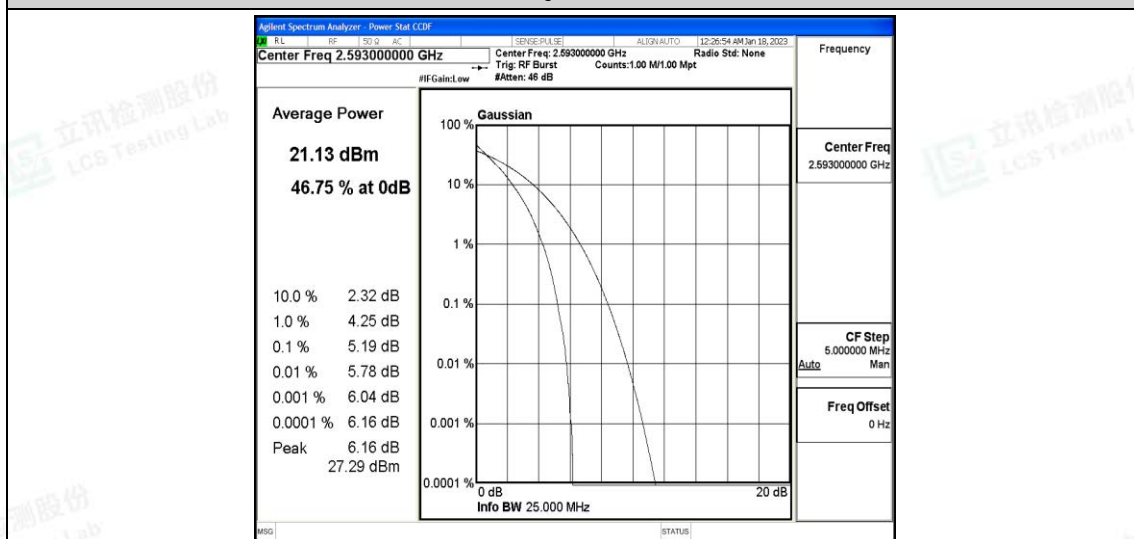




Band41-20MHz-QPSK-39750-100RB#0

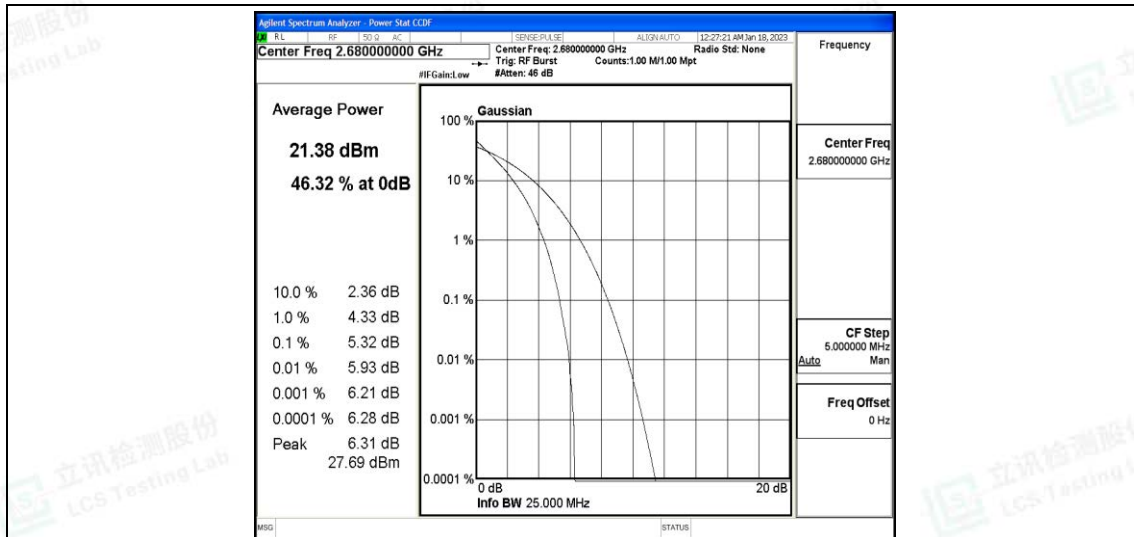


Band41-20MHz-QPSK-40620-100RB#0

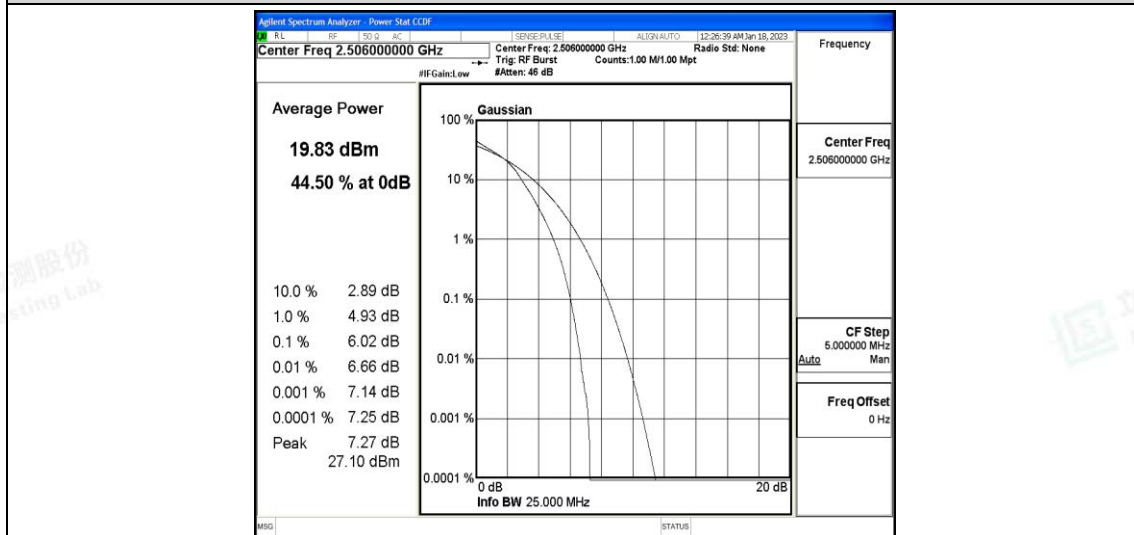


Band41-20MHz-QPSK-41490-100RB#0

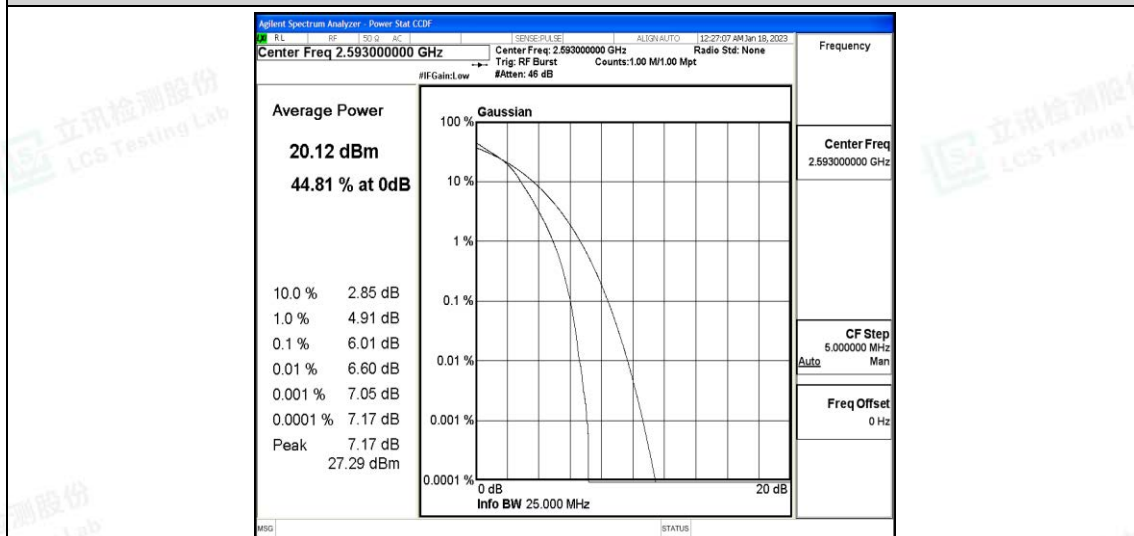




Band41-20MHz-16QAM-39750-100RB#0

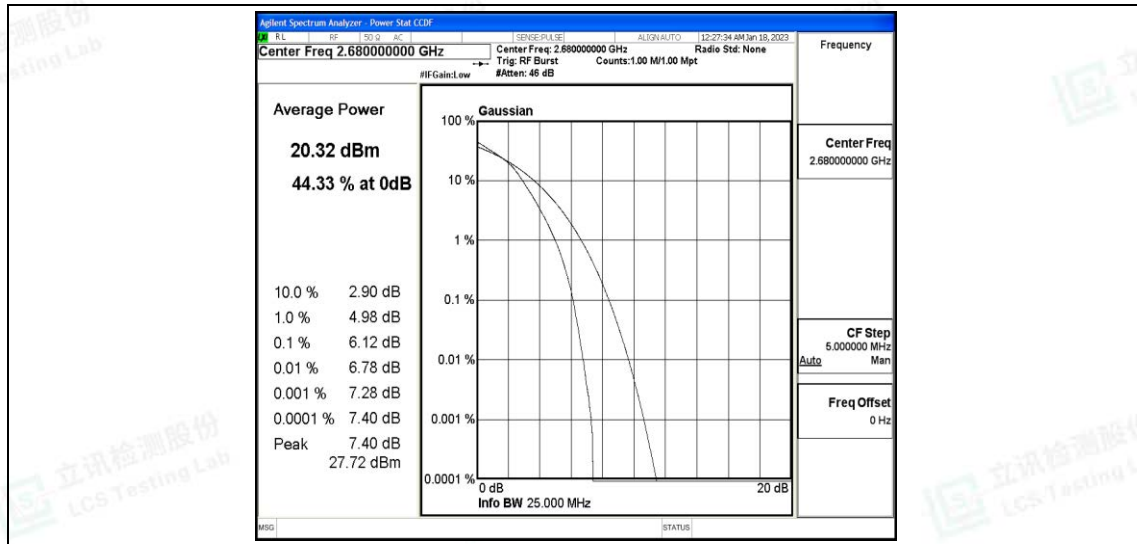


Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0







L.3 26dB Bandwidth and Occupied Bandwidth

Test Result

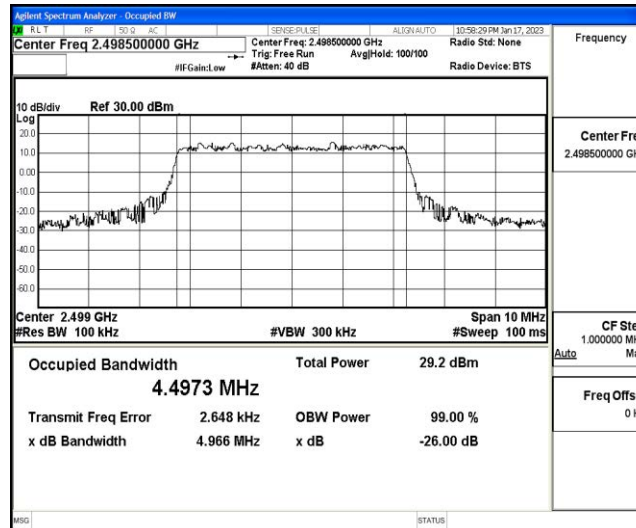
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4973	4.966	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.4920	5.054	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5008	5.027	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4911	5.036	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5045	4.985	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5028	5.013	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9983	10.07	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9533	10.20	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9760	10.04	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9825	9.698	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9652	9.709	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9853	9.741	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.472	15.18	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.442	14.90	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.485	15.24	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.483	15.39	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.474	15.07	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.468	15.13	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.879	19.22	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.863	19.54	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.975	19.31	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.912	19.94	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.876	21.47	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.959	20.52	PASS



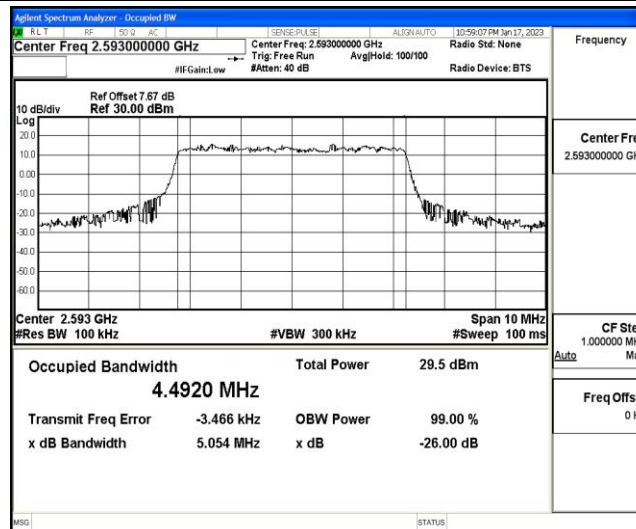


Test Graphs

Band41-5MHz-QPSK-39675-25RB#0

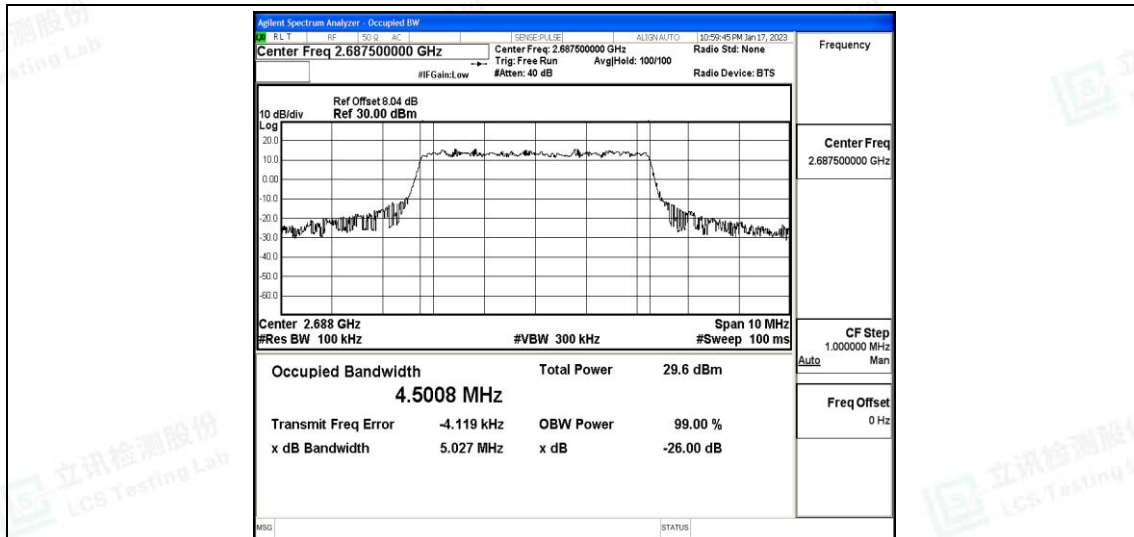


Band41-5MHz-QPSK-40620-25RB#0

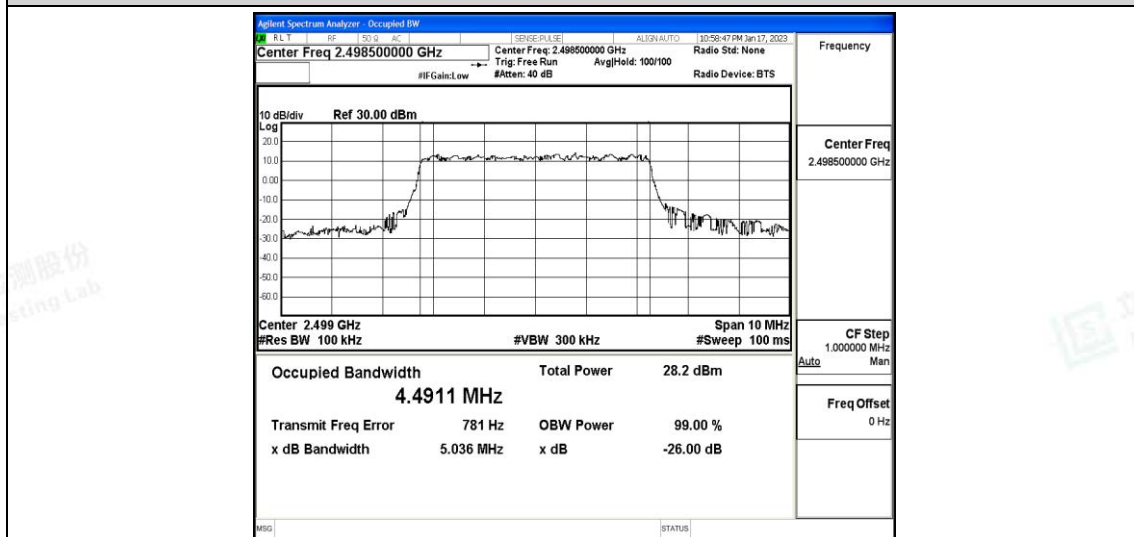


Band41-5MHz-QPSK-41565-25RB#0

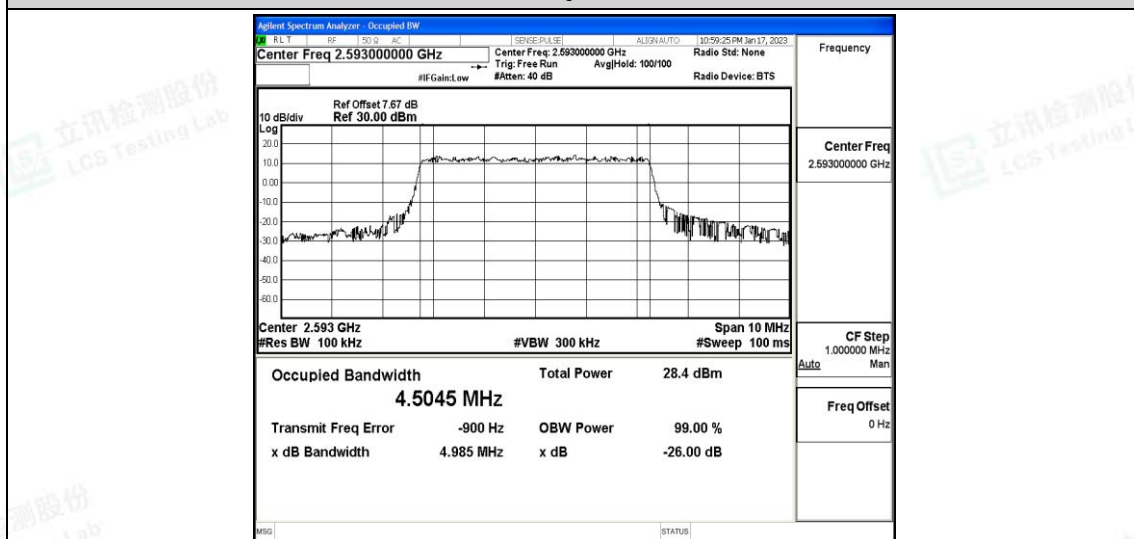




Band41-5MHz-16QAM-39675-25RB#0

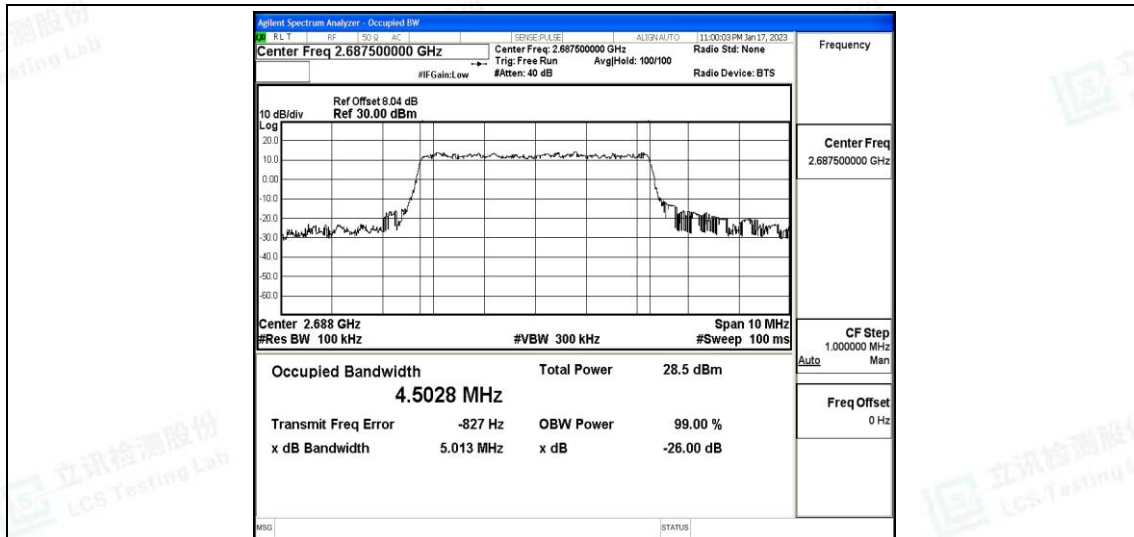


Band41-5MHz-16QAM-40620-25RB#0

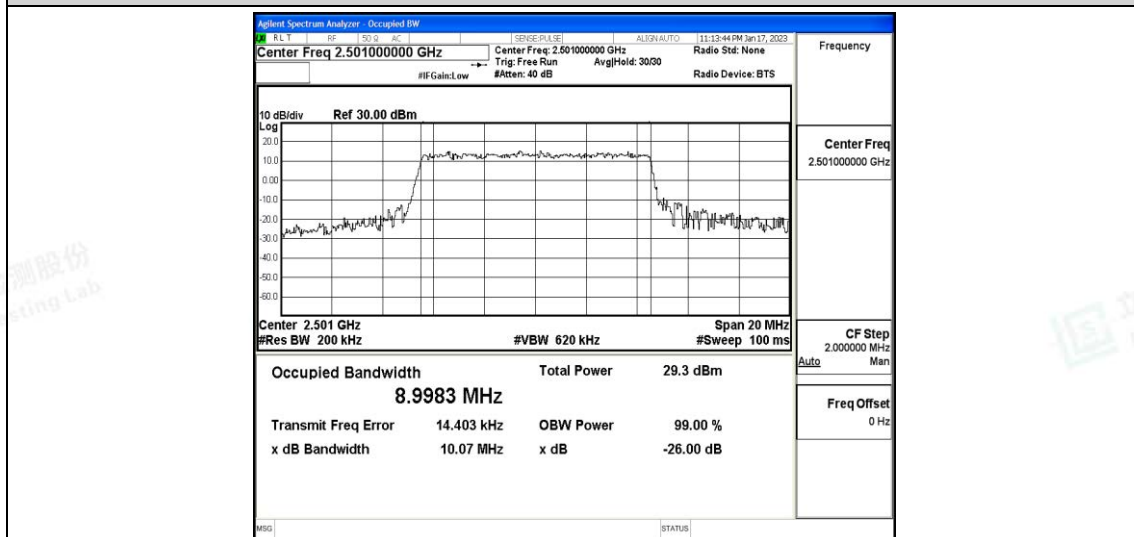


Band41-5MHz-16QAM-41565-25RB#0

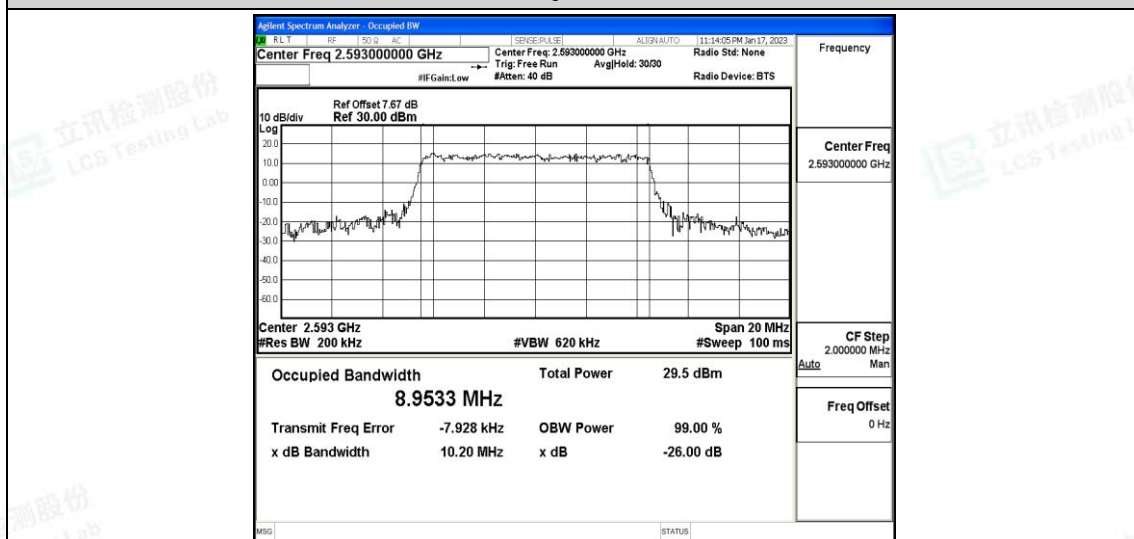




Band41-10MHz-QPSK-39700-50RB#0

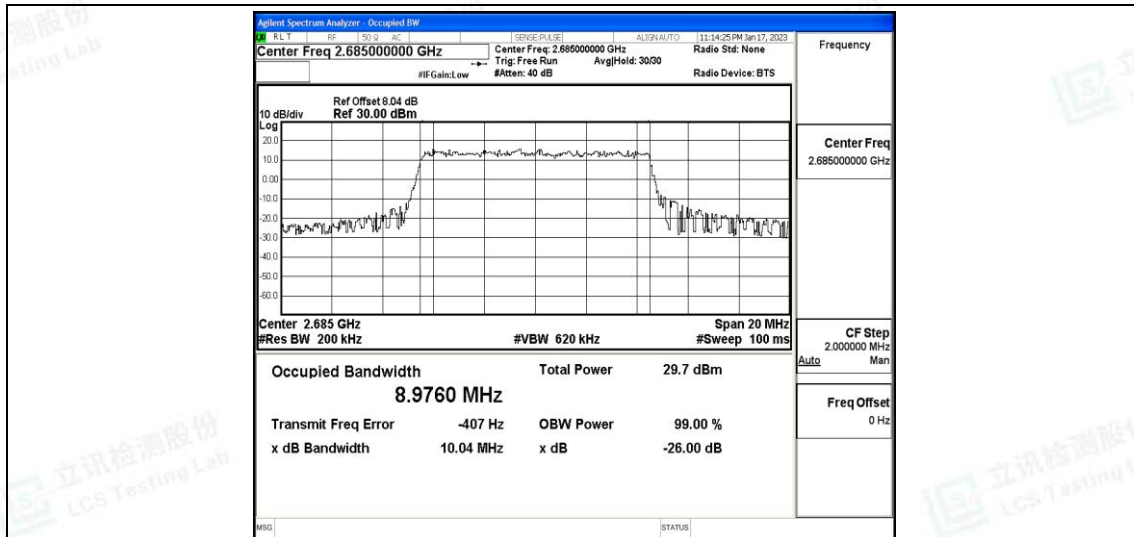


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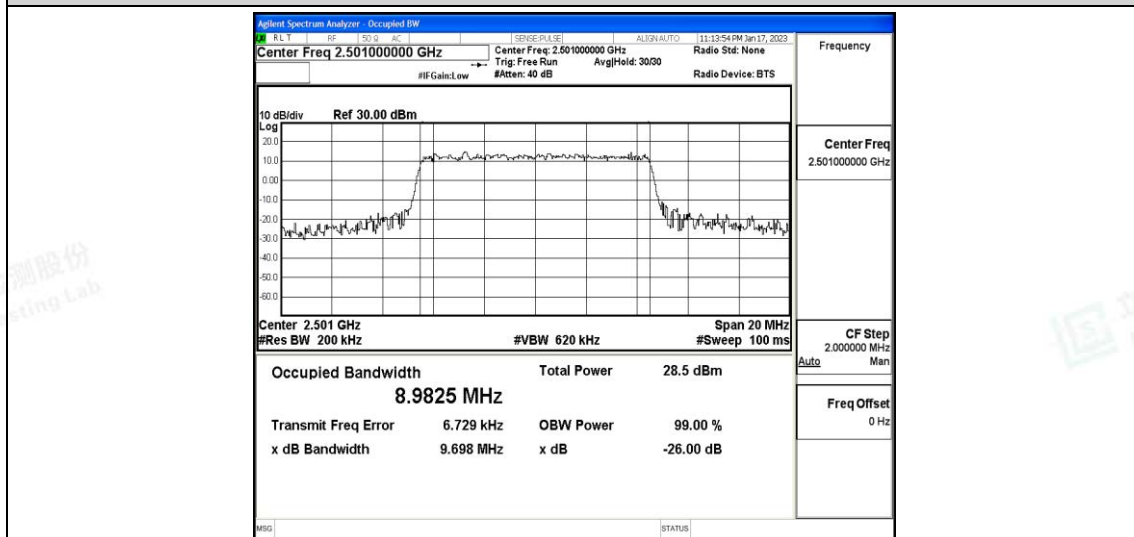


Band41-10MHz-QPSK-41540-50RB#0

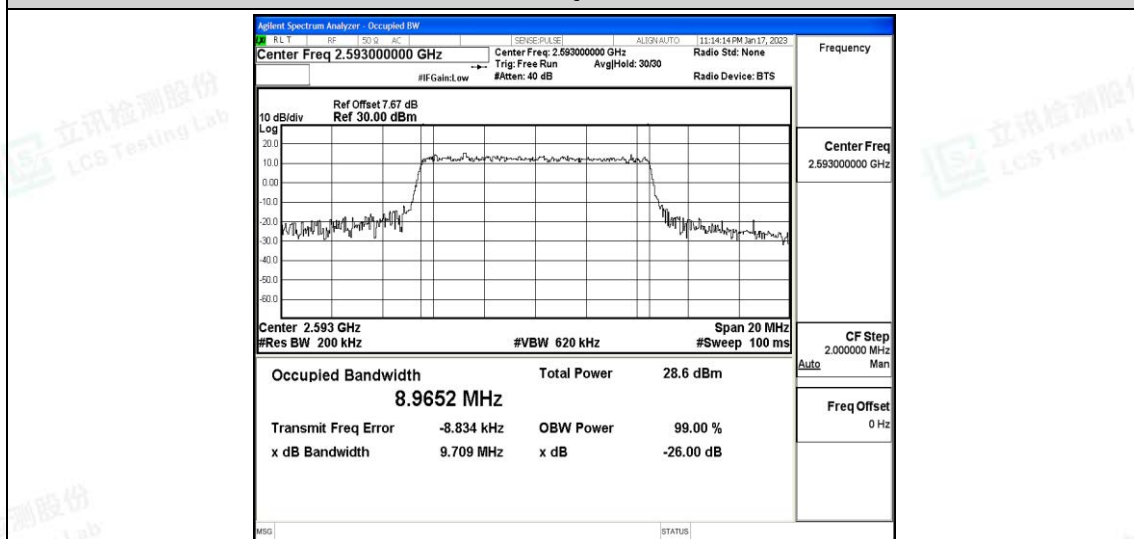




Band41-10MHz-16QAM-39700-50RB#0

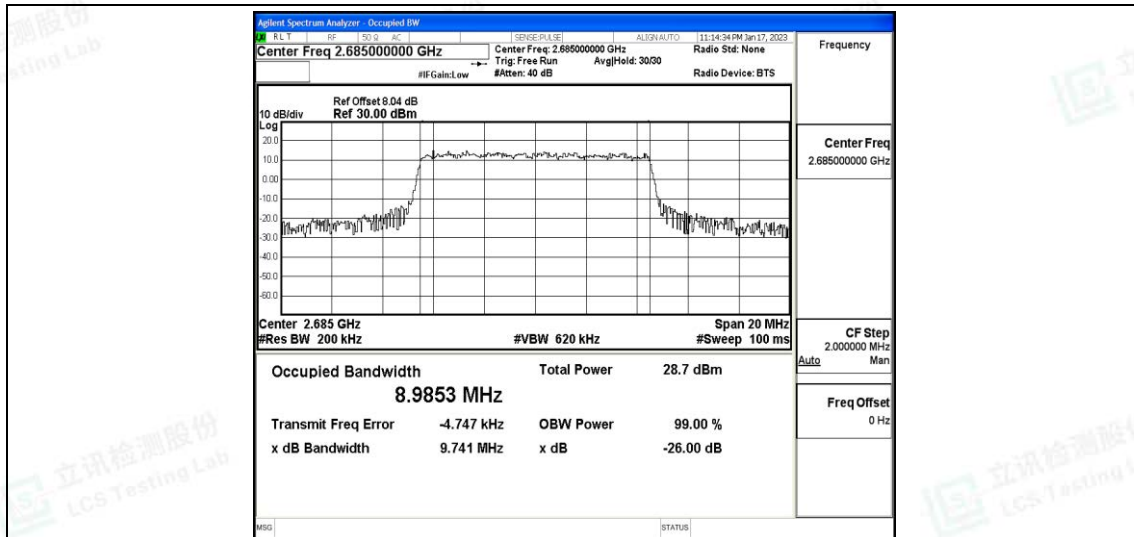


Band41-10MHz-16QAM-40620-50RB#0

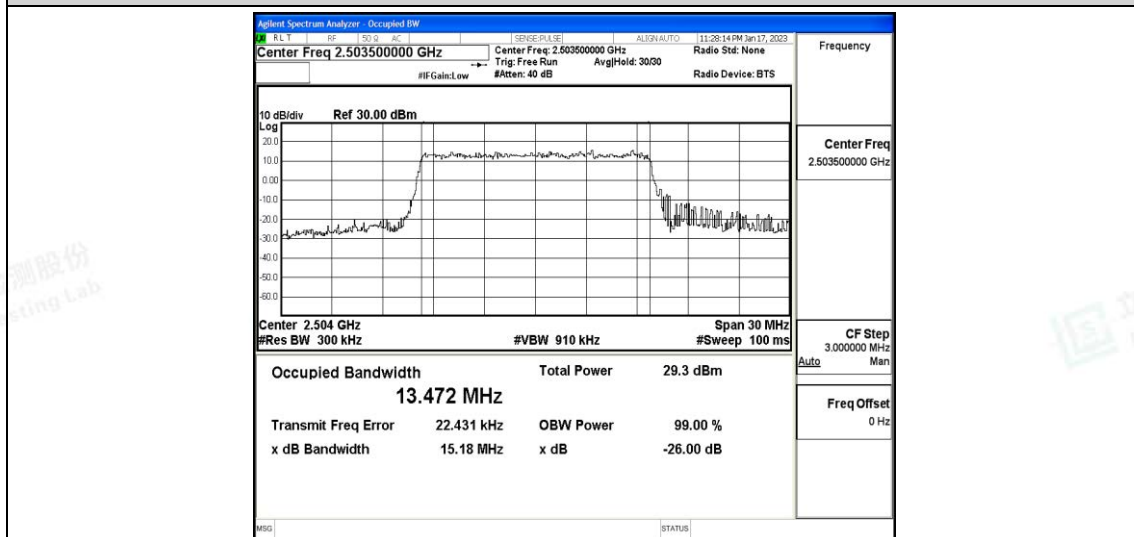


Band41-10MHz-16QAM-41540-50RB#0

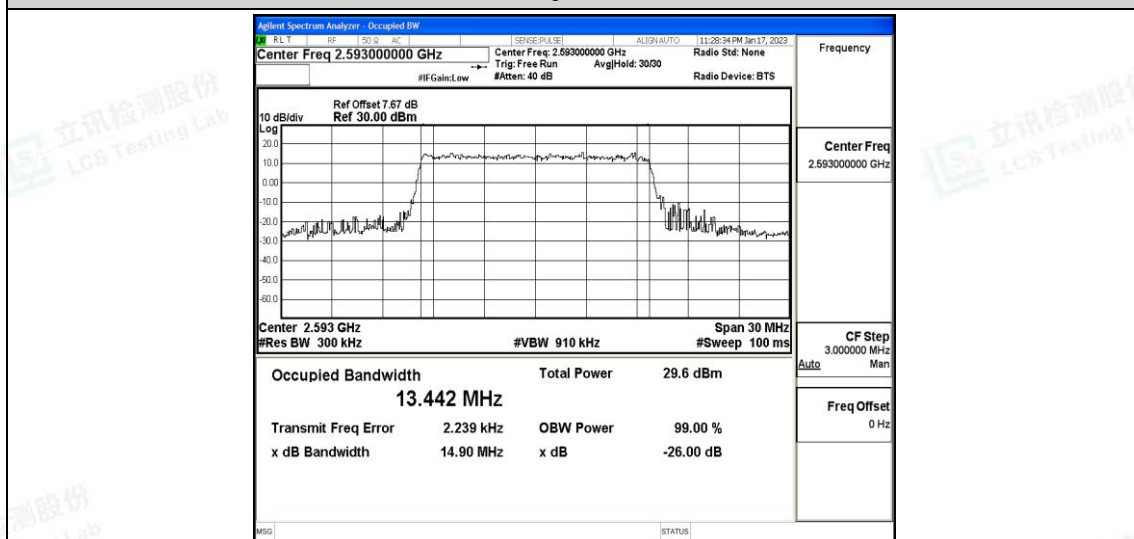




Band41-15MHz-QPSK-39725-75RB#0

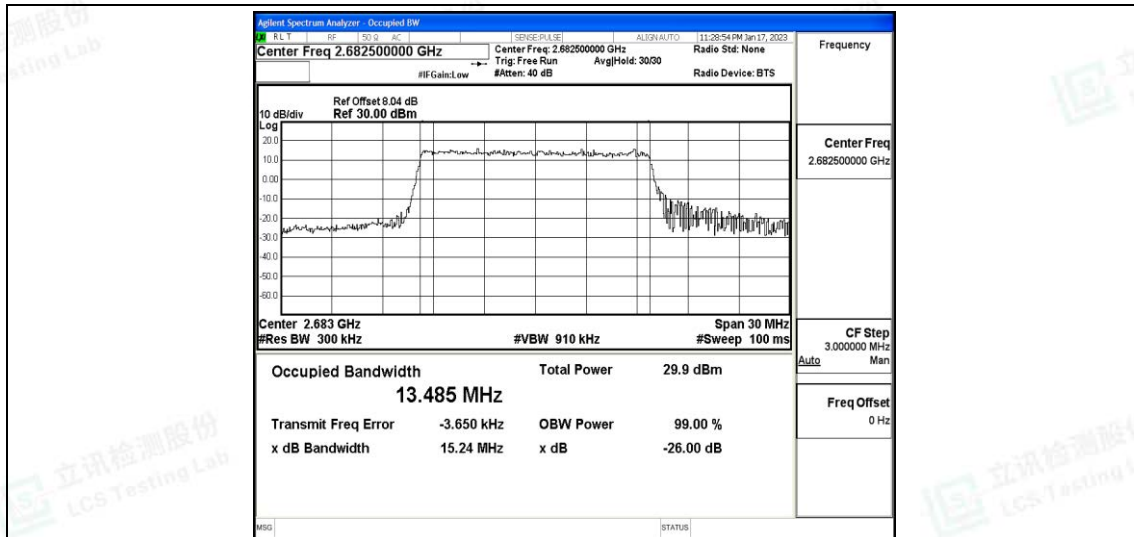


Band41-15MHz-QPSK-40620-75RB#0

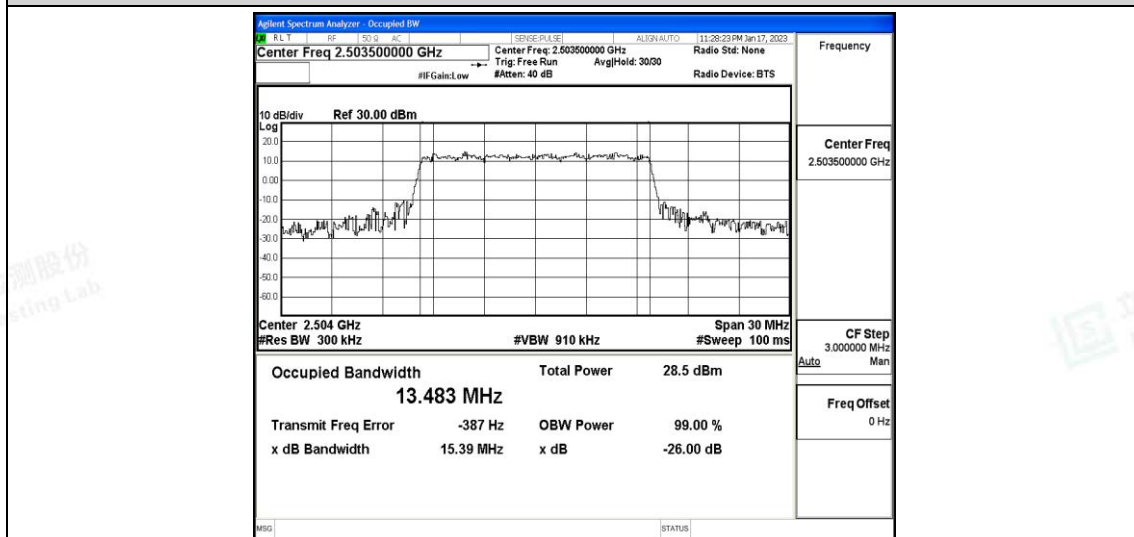


Band41-15MHz-QPSK-41515-75RB#0

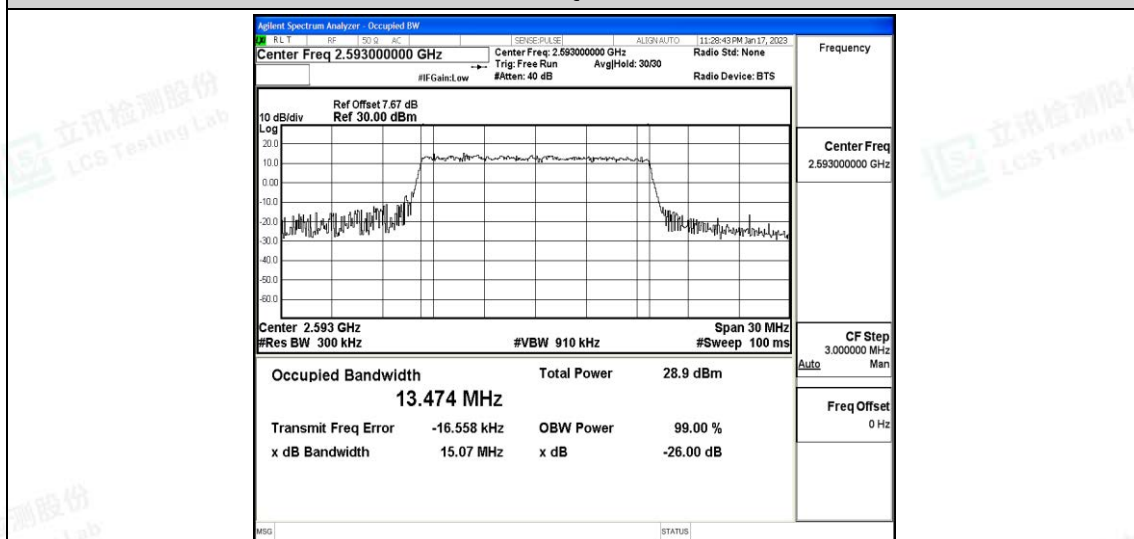




Band41-15MHz-16QAM-39725-75RB#0

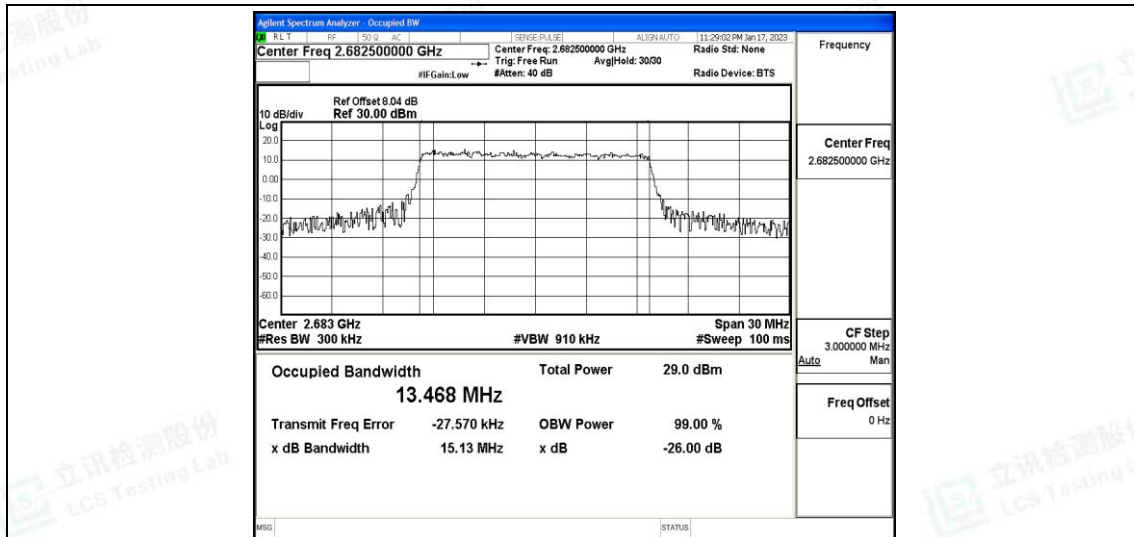


Band41-15MHz-16QAM-40620-75RB#0

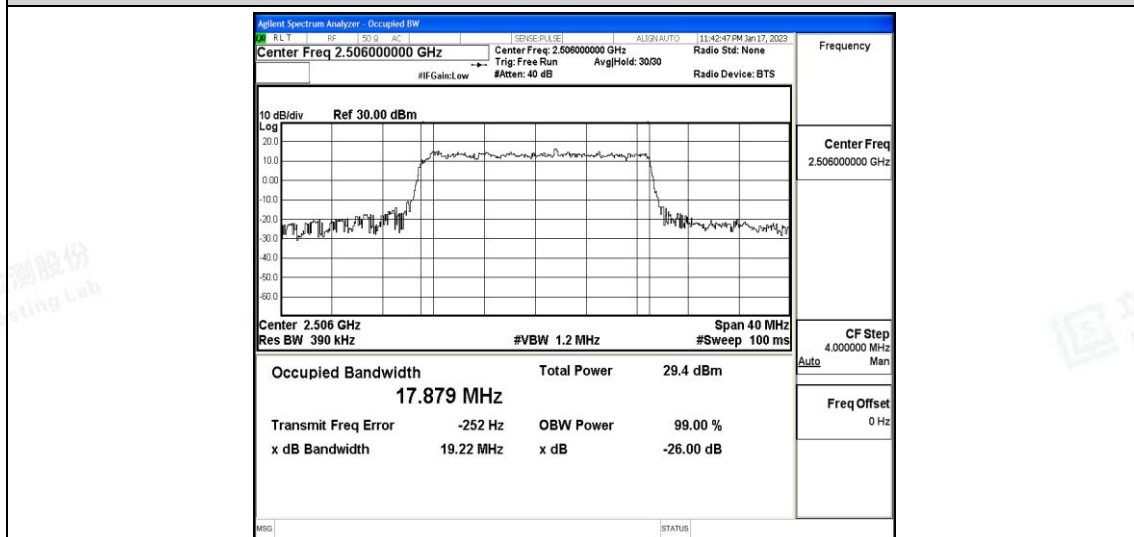


Band41-15MHz-16QAM-41515-75RB#0

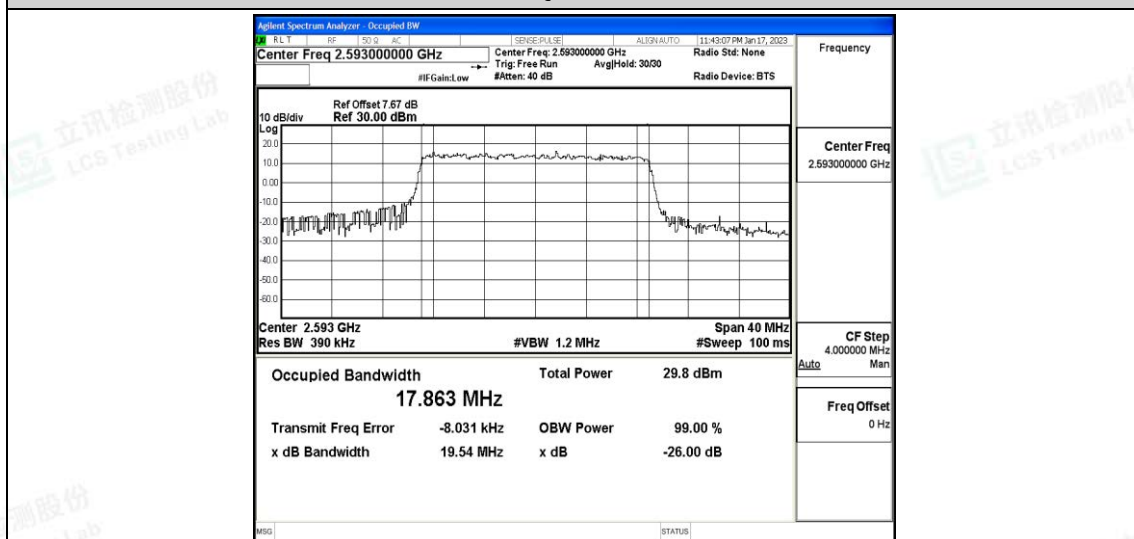




Band41-20MHz-QPSK-39750-100RB#0

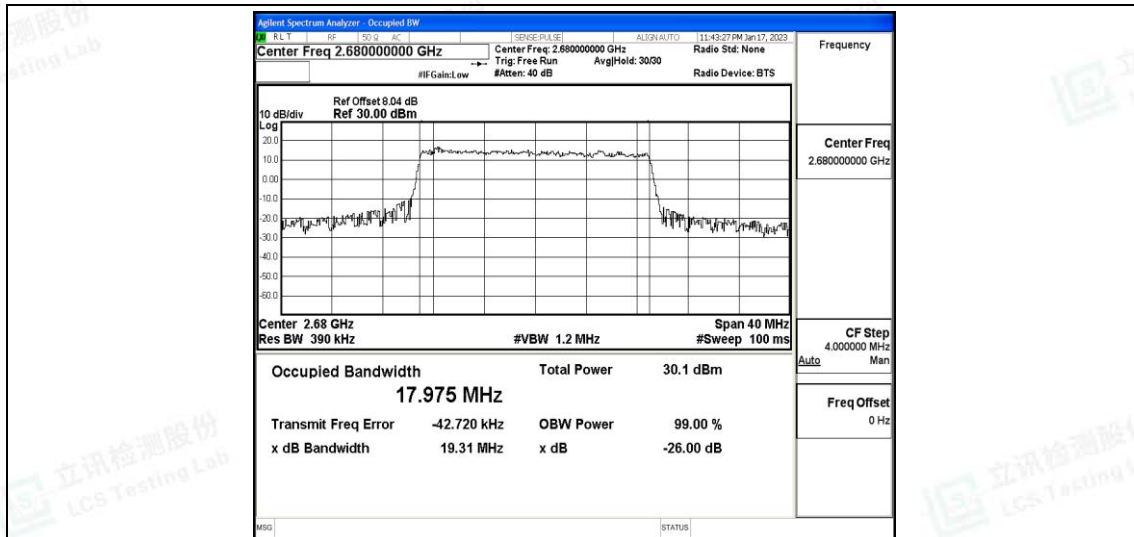


Band41-20MHz-QPSK-40620-100RB#0

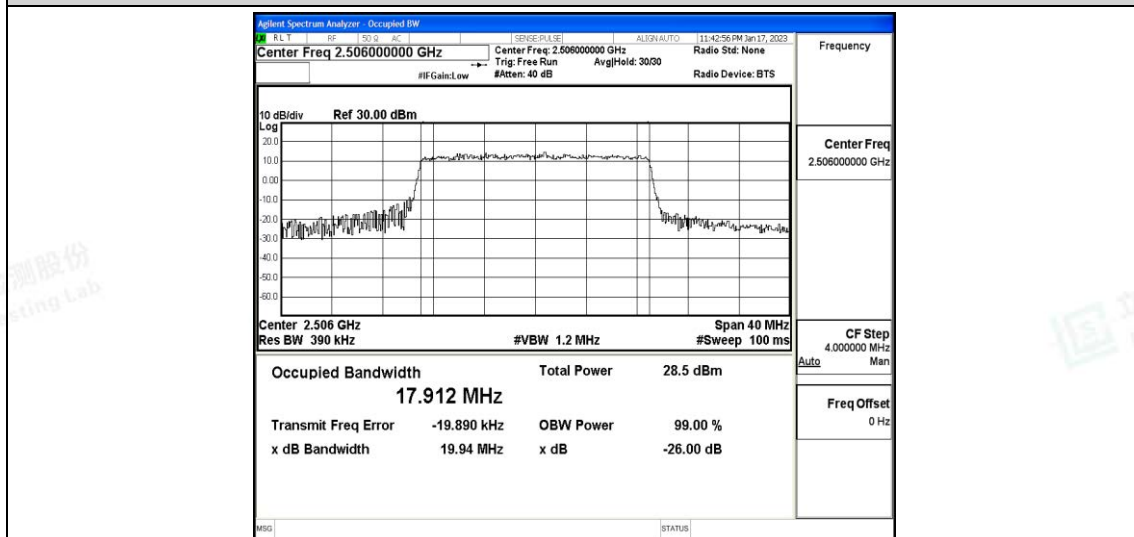


Band41-20MHz-QPSK-41490-100RB#0

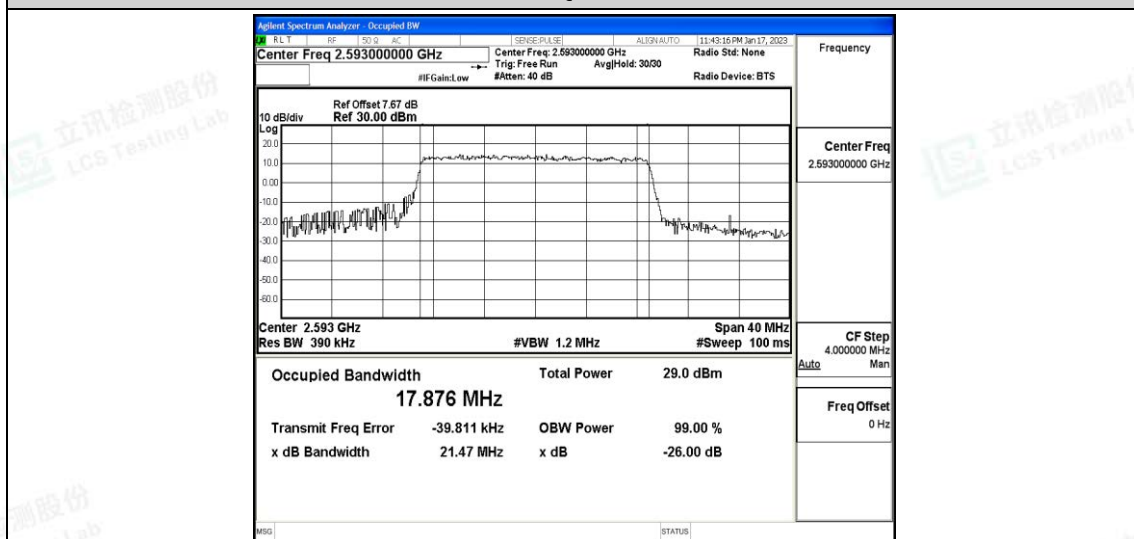




Band41-20MHz-16QAM-39750-100RB#0

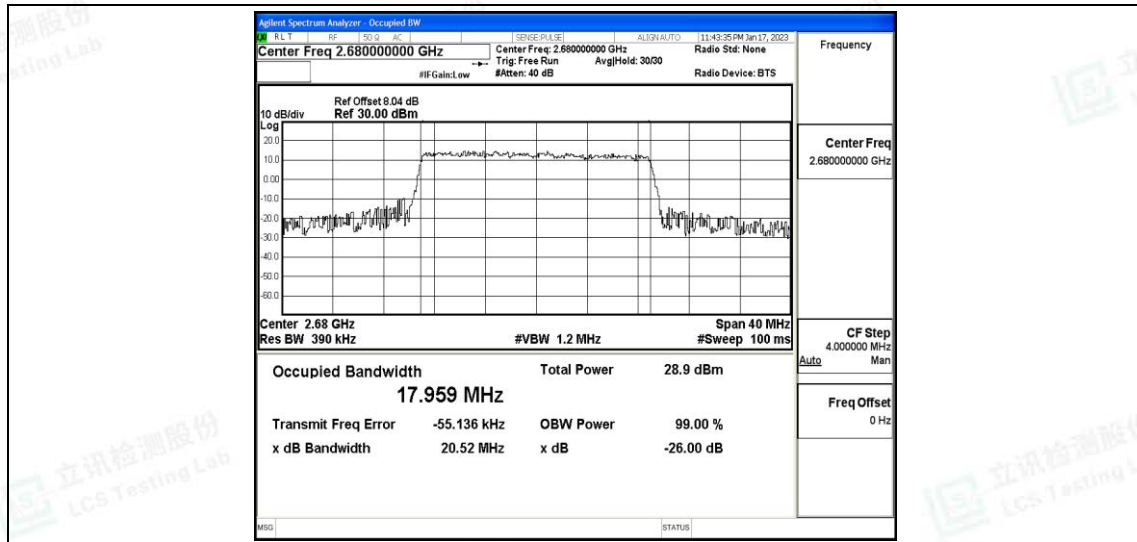


Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0





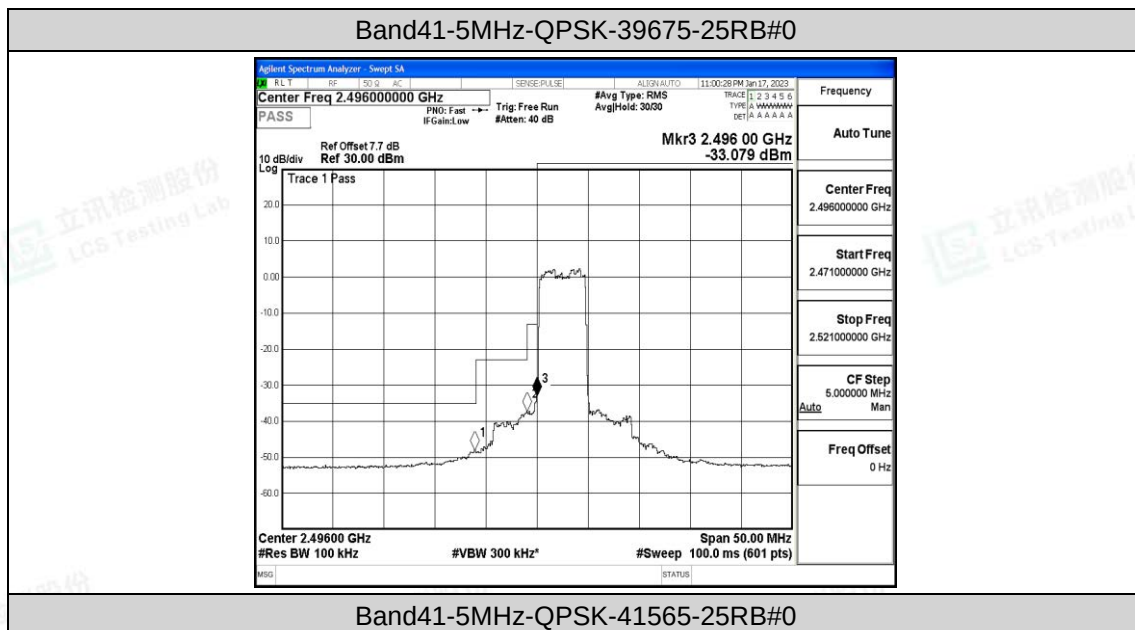


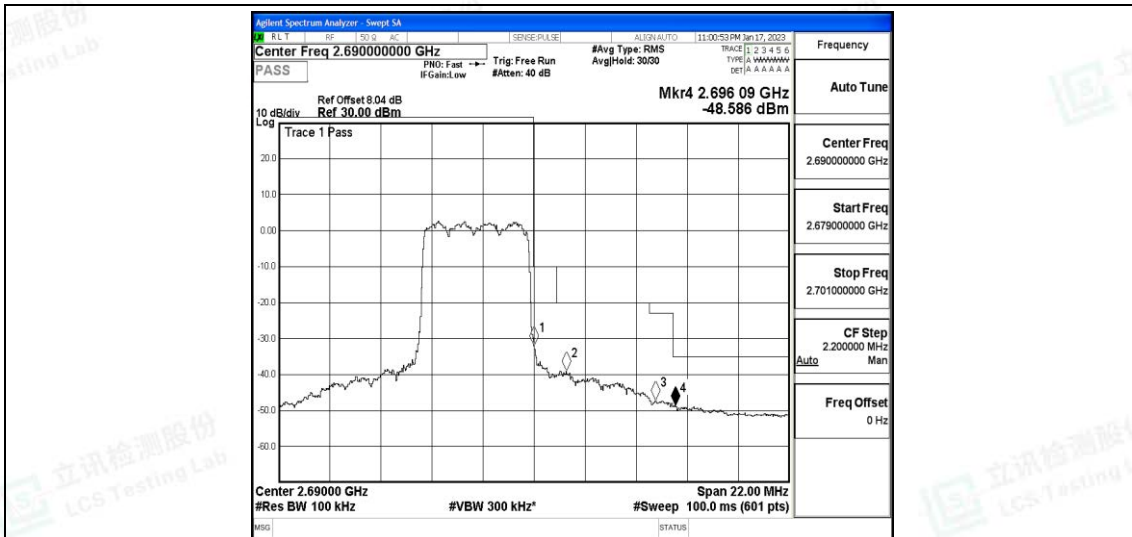
L.4 Band Edge

Test Result

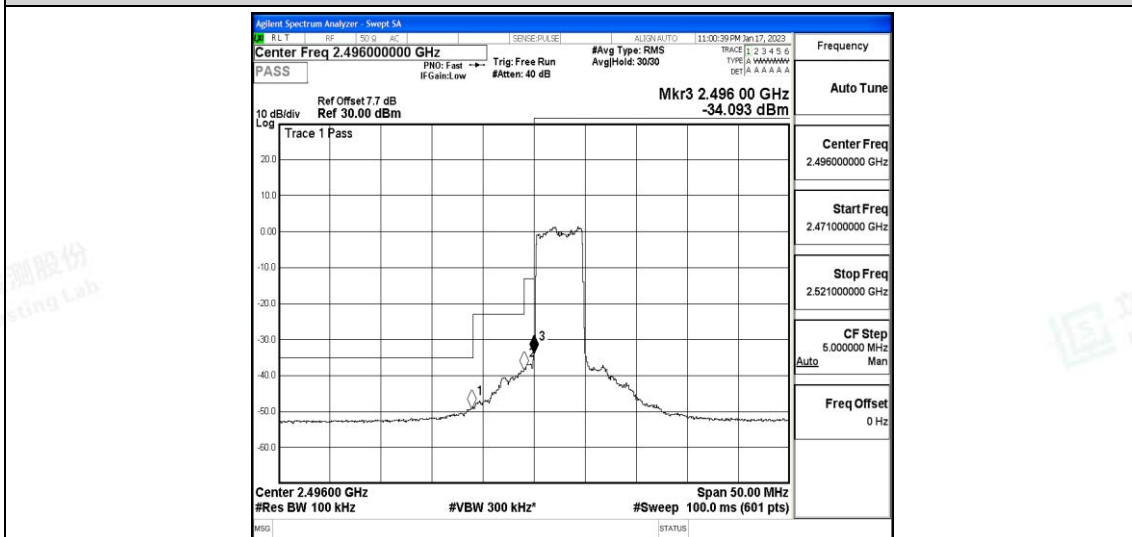
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	-48.08,-37.21,-33.08	PASS
Band41	5MHz	QPSK	41565	25RB#0	-32.04,-39.06,-47.23,-48.59	PASS
Band41	5MHz	16QAM	39675	25RB#0	-49.13,-38.68,-34.09	PASS
Band41	5MHz	16QAM	41565	25RB#0	-33.43,-39.18,-47.91,-49.11	PASS
Band41	10MHz	QPSK	39700	50RB#0	-46.52,-37.54,-34.97	PASS
Band41	10MHz	QPSK	41540	50RB#0	-35.44,-37.74,-41.27,-45.19	PASS
Band41	10MHz	16QAM	39700	50RB#0	-46.55,-37.95,-35.63	PASS
Band41	10MHz	16QAM	41540	50RB#0	-35.88,-38.70,-41.42,-46.10	PASS
Band41	15MHz	QPSK	39725	75RB#0	-45.28,-35.31,-35.72	PASS
Band41	15MHz	QPSK	41515	75RB#0	-33.98,-34.70,-38.07,-43.22	PASS
Band41	15MHz	16QAM	39725	75RB#0	-45.70,-36.18,-35.30	PASS
Band41	15MHz	16QAM	41515	75RB#0	-35.72,-37.03,-39.56,-44.76	PASS
Band41	20MHz	QPSK	39750	100RB#0	-45.92,-37.41,-37.17	PASS
Band41	20MHz	QPSK	41490	100RB#0	-37.08,-37.90,-39.89,-44.55	PASS
Band41	20MHz	16QAM	39750	100RB#0	-46.22,-38.34,-35.84	PASS
Band41	20MHz	16QAM	41490	100RB#0	-38.06,-37.42,-39.54,-45.16	PASS

Test Graphs

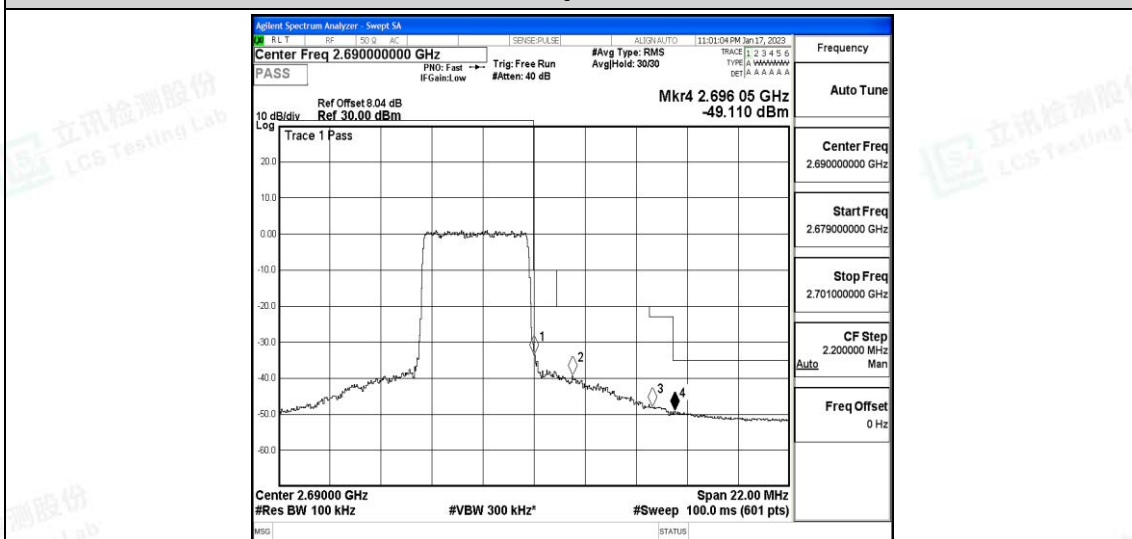




Band41-5MHz-16QAM-39675-25RB#0

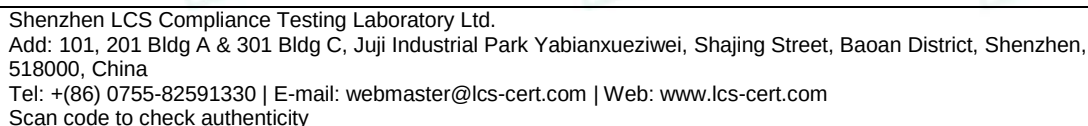
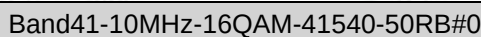
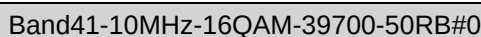
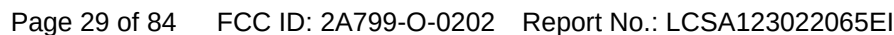


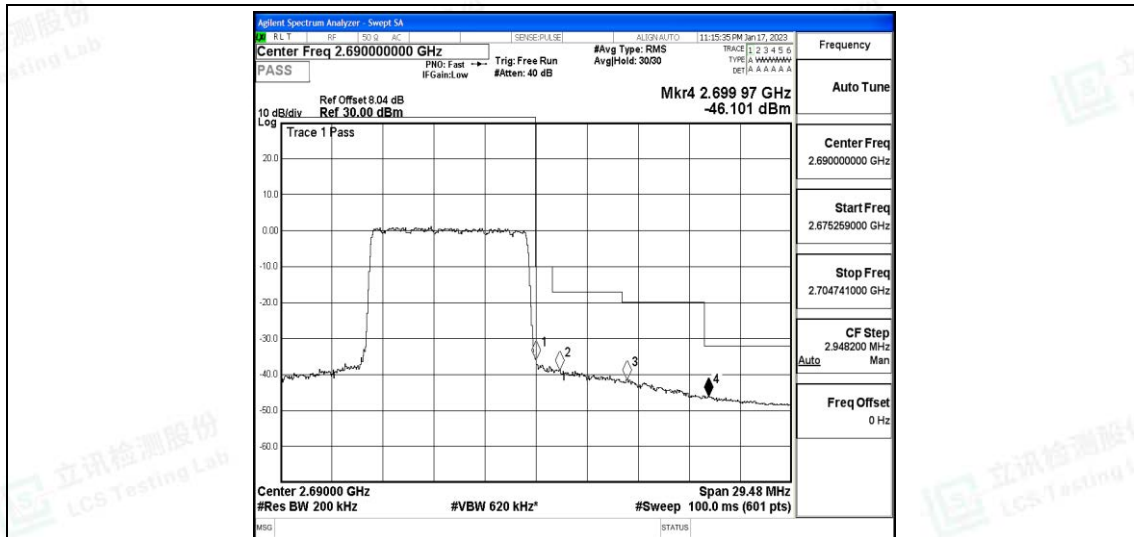
Band41-5MHz-16QAM-41565-25RB#0



Band41-10MHz-QPSK-39700-50RB#0



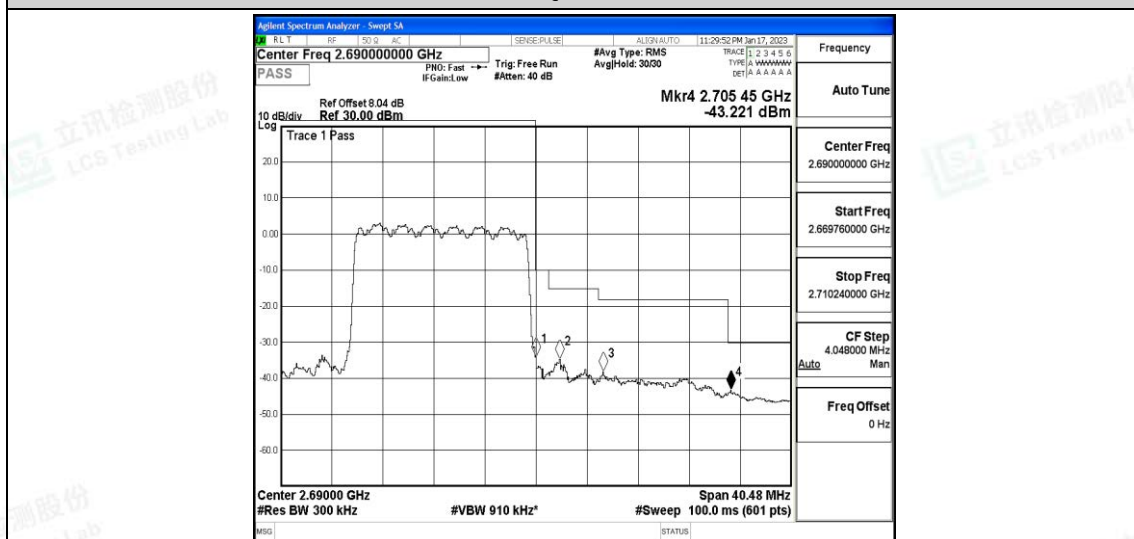




Band41-15MHz-QPSK-39725-75RB#0



Band41-15MHz-QPSK-41515-75RB#0



Band41-15MHz-16QAM-39725-75RB#0

