



## Appendix J: Test Data for E-UTRA Band 12

Product Name: Smartphone

Test Model: NOTE 50

### Environmental Conditions

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





## J.1 Conducted Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.06	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.11	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.07	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.33	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.32	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.22	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.21	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.99	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.17	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.04	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.21	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.20	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.26	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.34	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.88	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.93	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.95	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.00	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.88	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.08	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.02	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.79	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.81	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.97	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.97	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.97	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.37	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.12	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.01	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.02	PASS





Band12	1.4MHz	16QAM	23095	3RB#0	23.11	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	23.13	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.15	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.37	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.56	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.58	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.58	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.63	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.64	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.65	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.05	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.14	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.11	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.21	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.16	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.17	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.27	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.14	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.01	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.06	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.96	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.21	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.22	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.08	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.15	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.02	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.99	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.93	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.98	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.02	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.94	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.93	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.19	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.08	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.29	PASS





Band12	3MHz	16QAM	23025	8RB#0	22.23	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.22	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.42	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.09	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.00	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.99	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.92	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.47	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.30	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.37	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.05	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.57	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.56	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.52	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.12	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.11	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.03	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.04	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.24	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.32	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.20	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.17	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.24	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.15	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.11	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.21	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.23	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.20	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.11	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.18	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.21	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.15	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.16	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.02	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.07	PASS





Band12	5MHz	QPSK	23155	12RB#0	23.03	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.05	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.94	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.04	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.56	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.56	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.51	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.14	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.14	PASS
Band12	5MHz	16QAM	23035	12RB#13	22.19	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.33	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.05	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.99	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.97	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.05	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.01	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.14	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.02	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.00	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.97	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.82	PASS
Band12	5MHz	16QAM	23155	12RB#0	22.11	PASS
Band12	5MHz	16QAM	23155	12RB#6	22.12	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.05	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.07	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.17	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.10	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.08	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.26	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.37	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.27	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.13	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.19	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.14	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.00	PASS





Band12	10MHz	QPSK	23095	25RB#0	23.31	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.30	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.04	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.10	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.35	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.13	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.97	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.19	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.05	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.92	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.93	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.94	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.85	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.86	PASS
Band12	10MHz	16QAM	23060	25RB#0	22.25	PASS
Band12	10MHz	16QAM	23060	25RB#12	22.26	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.23	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.08	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.89	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.85	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.68	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.31	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.30	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.23	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.28	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.95	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.89	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.69	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.16	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.19	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.11	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.13	PASS





## J.2 Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.13	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.57	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.77	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.08	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.23	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.53	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.19	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.58	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.87	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.08	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.40	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.84	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.44	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.61	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.22	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.20	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.27	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.12	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.41	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.54	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.41	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.22	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.26	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.14	13	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

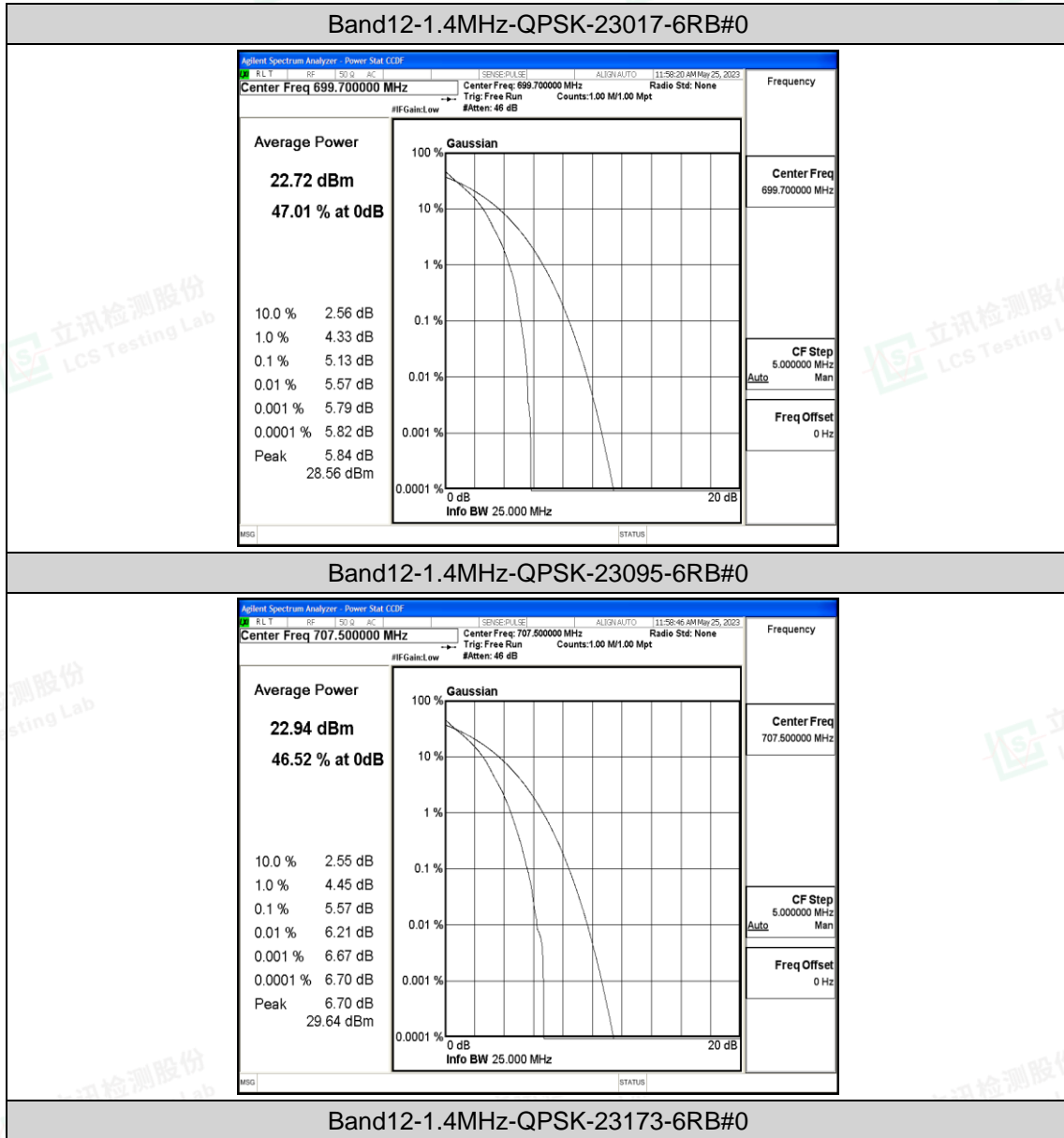
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

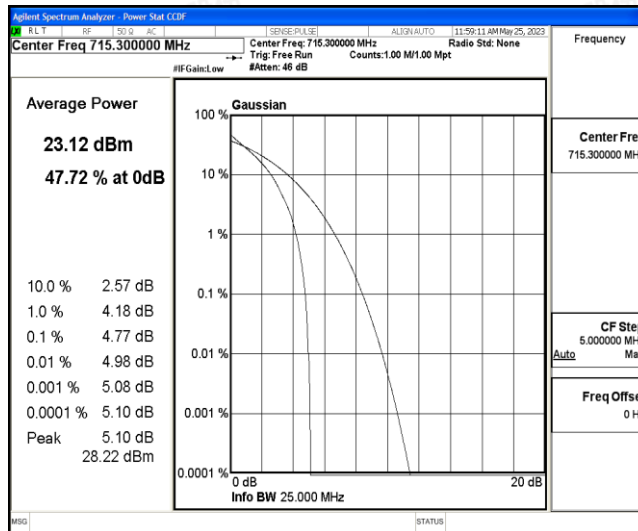
Scan code to check authenticity



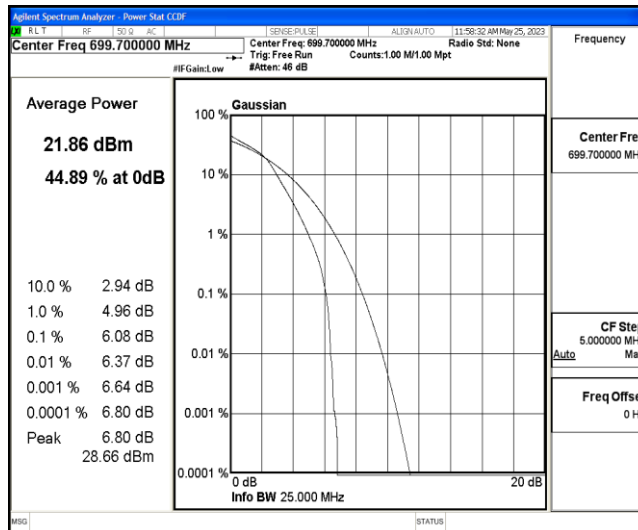
### Test Graphs



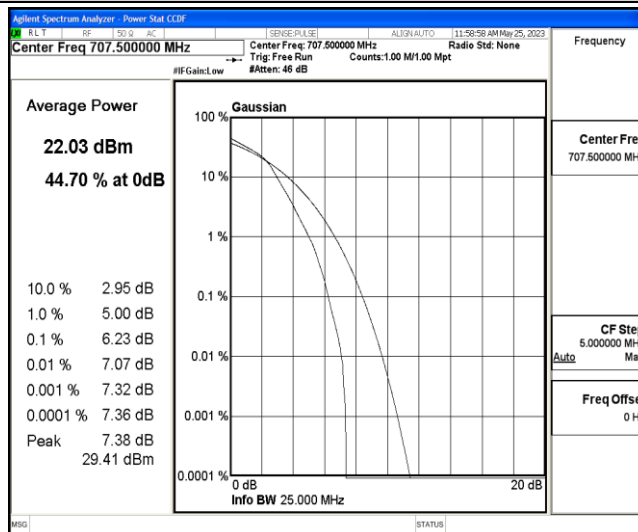




Band12-1.4MHz-16QAM-23017-6RB#0

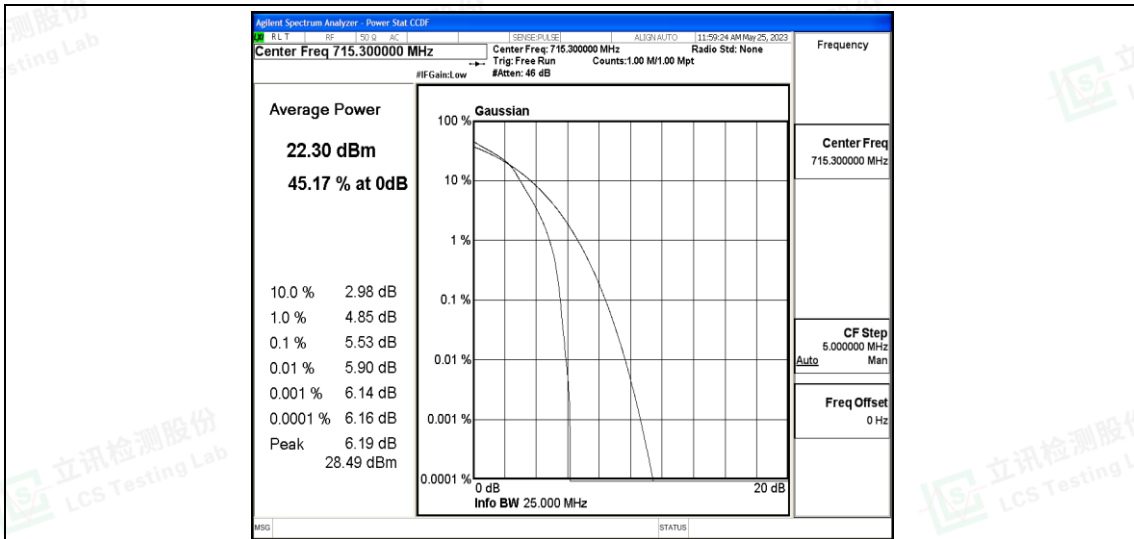


Band12-1.4MHz-16QAM-23095-6RB#0

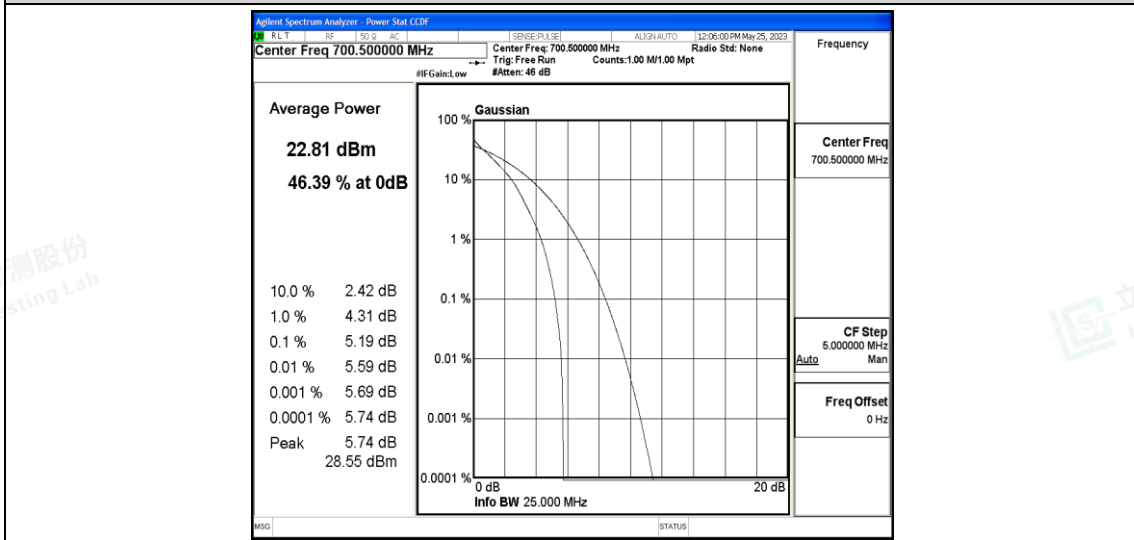


Band12-1.4MHz-16QAM-23173-6RB#0

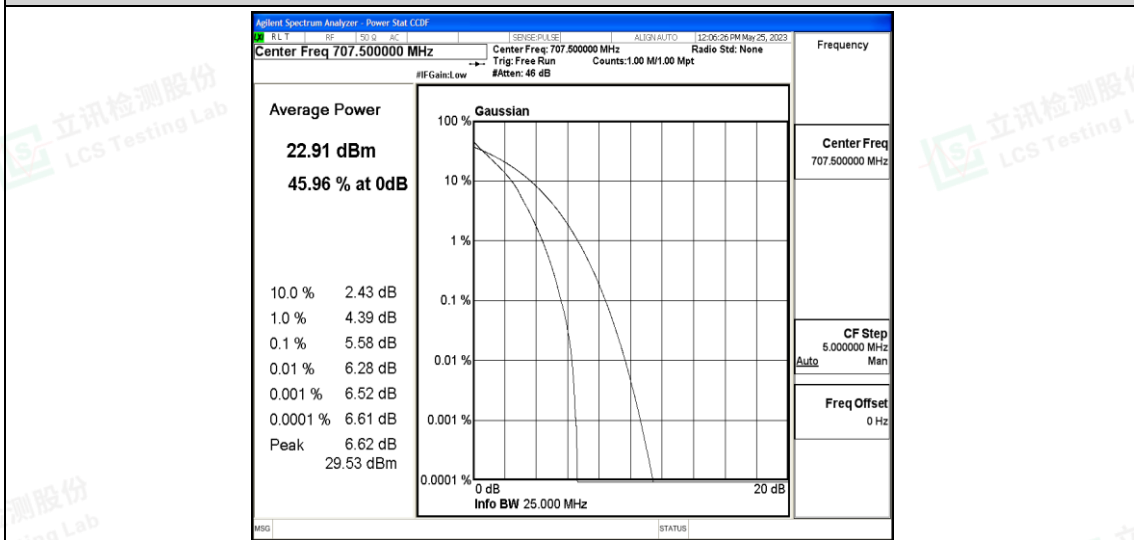




Band12-3MHz-QPSK-23025-15RB#0

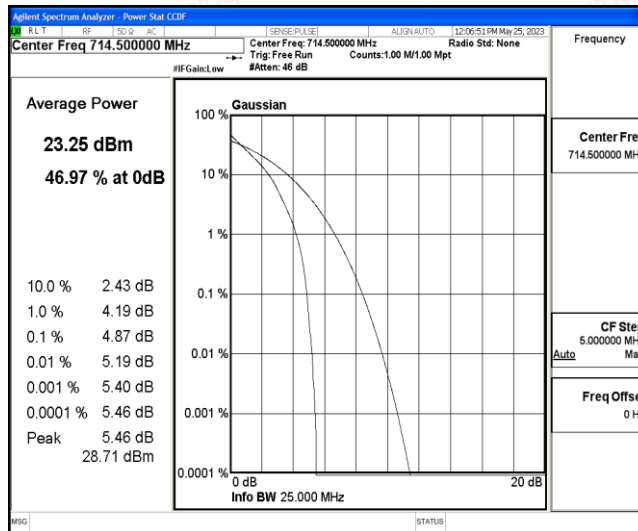


Band12-3MHz-QPSK-23095-15RB#0

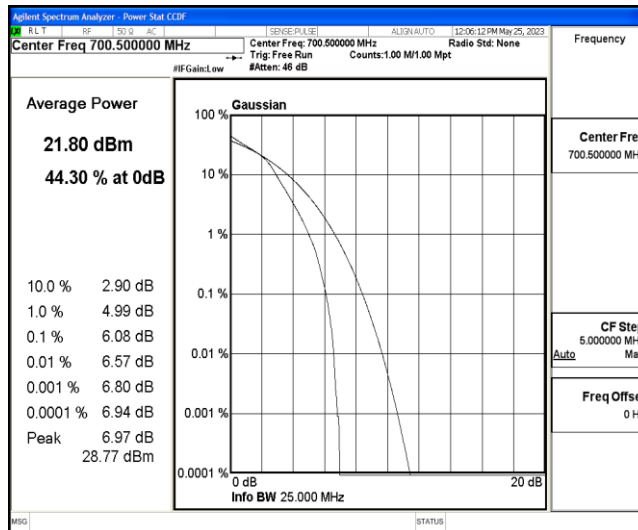


Band12-3MHz-QPSK-23165-15RB#0

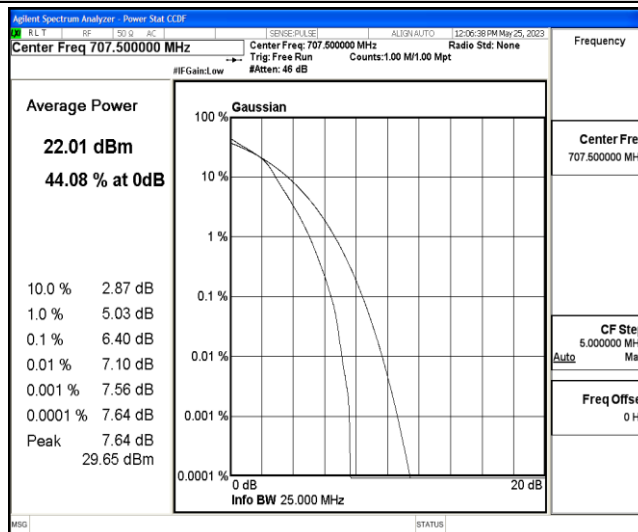




Band12-3MHz-16QAM-23025-15RB#0

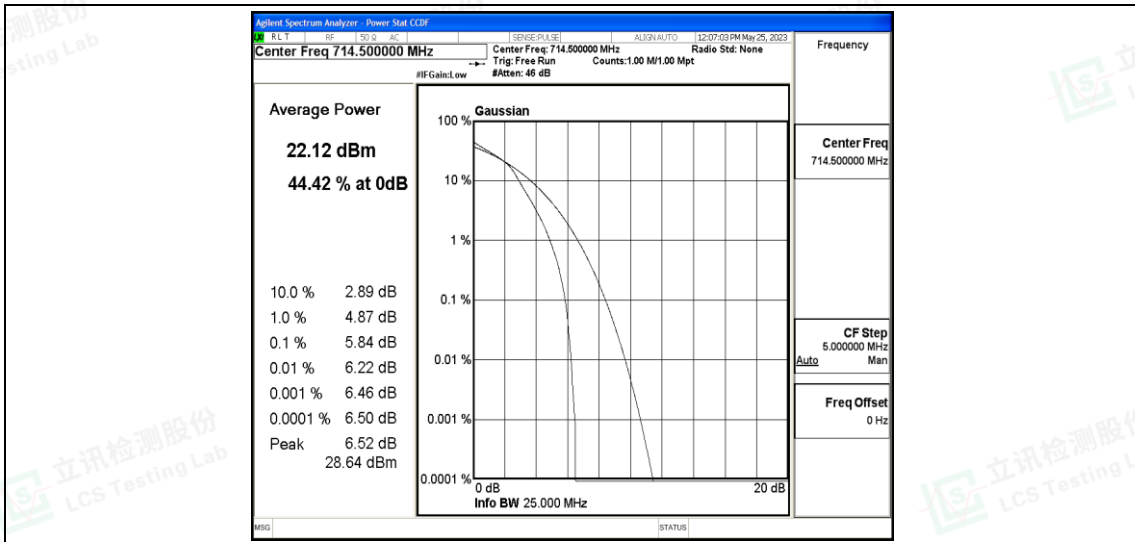


Band12-3MHz-16QAM-23095-15RB#0

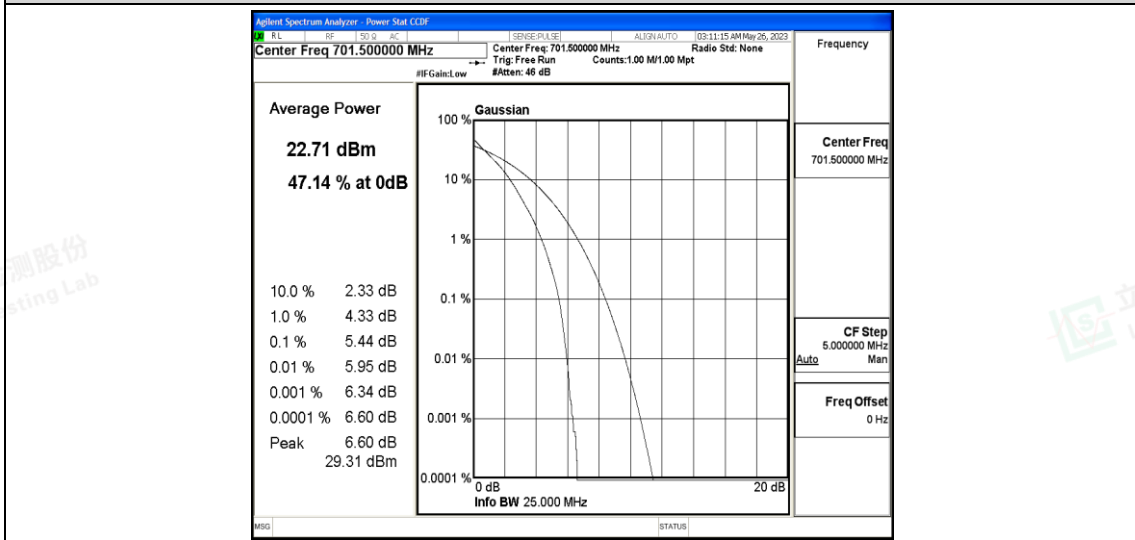


Band12-3MHz-16QAM-23165-15RB#0

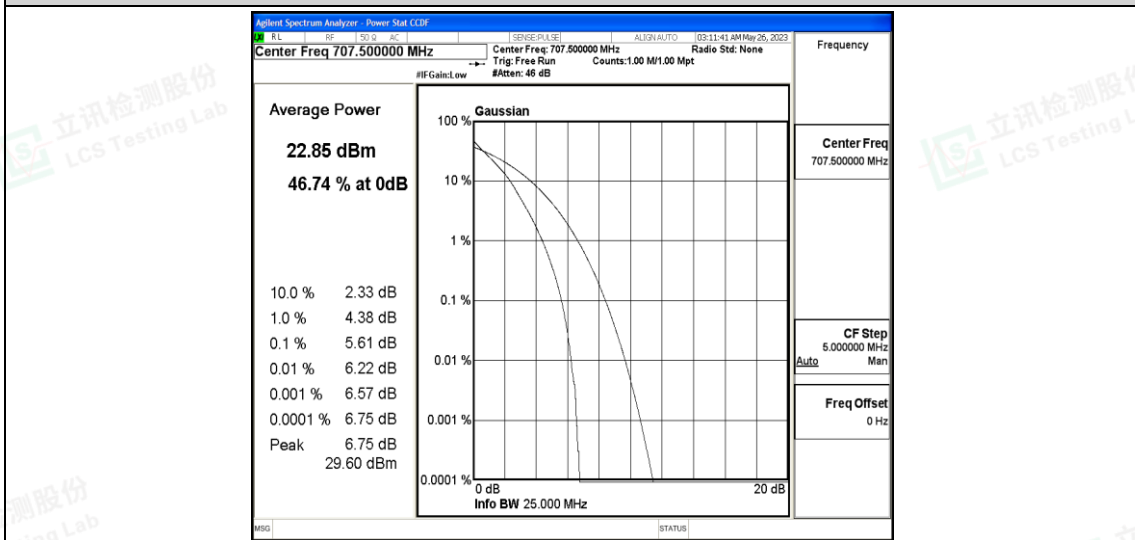




Band12-5MHz-QPSK-23035-25RB#0

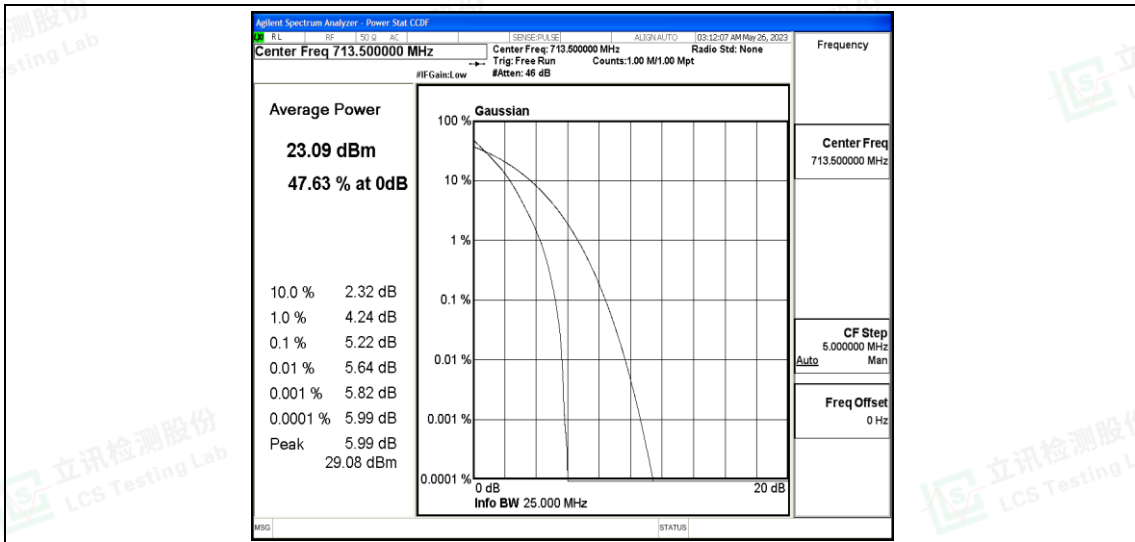


Band12-5MHz-QPSK-23095-25RB#0

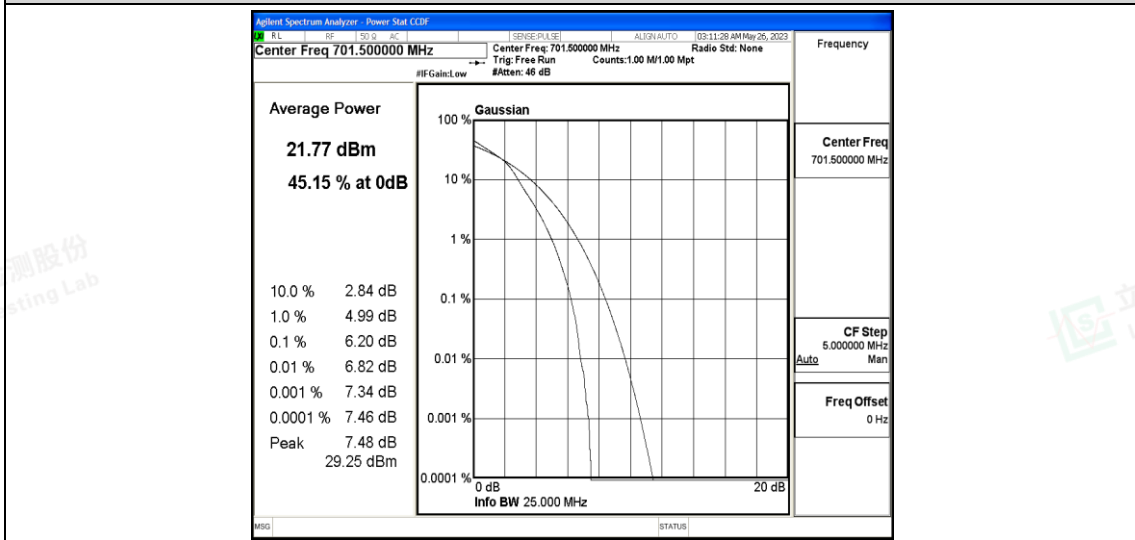


Band12-5MHz-QPSK-23155-25RB#0

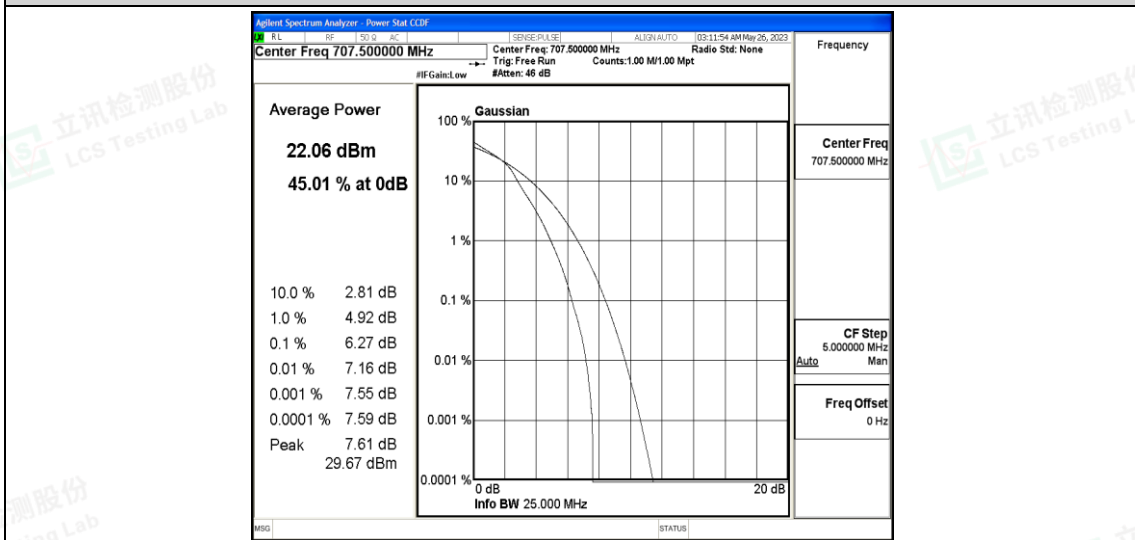




Band12-5MHz-16QAM-23035-25RB#0

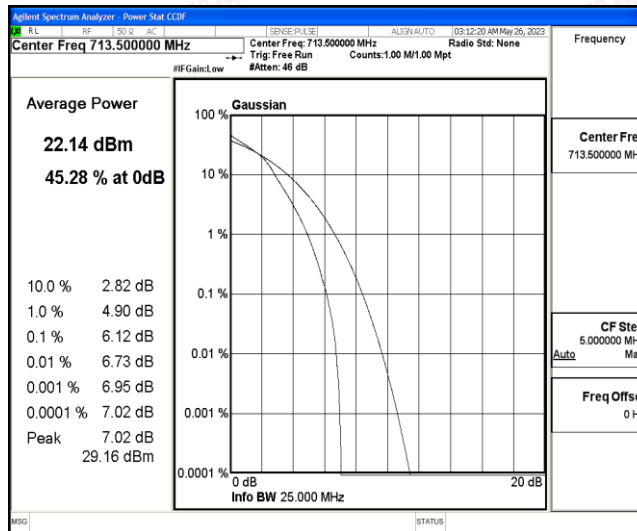


Band12-5MHz-16QAM-23095-25RB#0

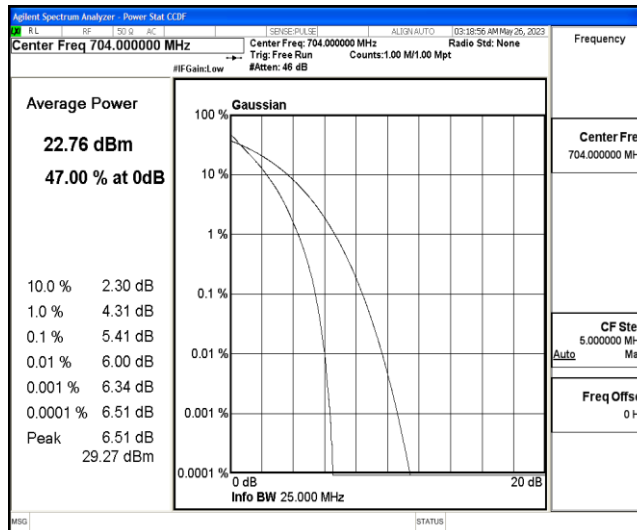


Band12-5MHz-16QAM-23155-25RB#0

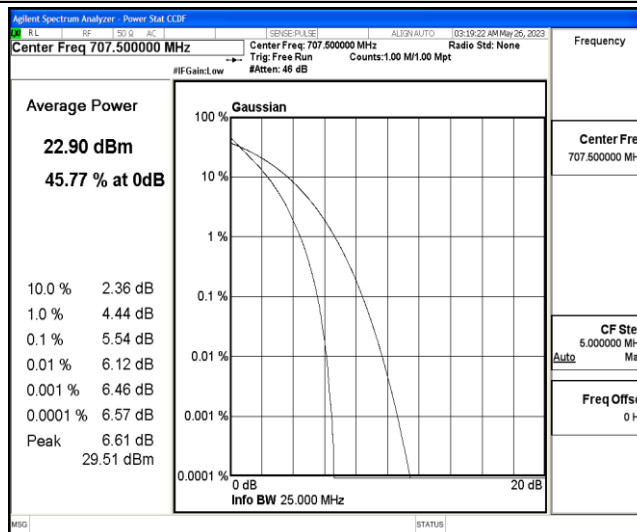




Band12-10MHz-QPSK-23060-50RB#0

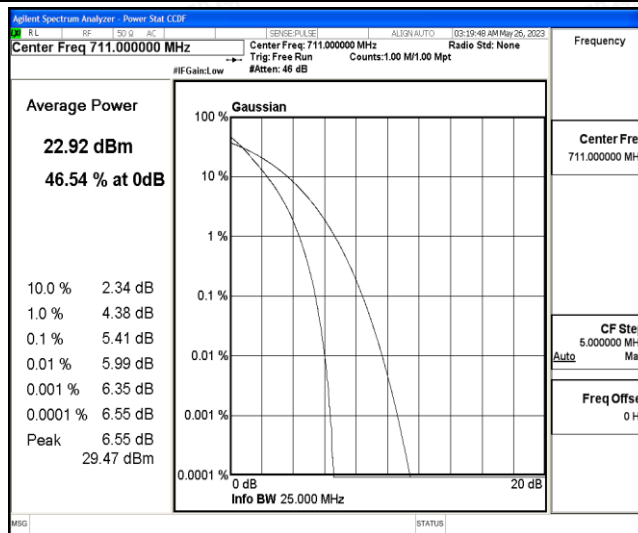


Band12-10MHz-QPSK-23095-50RB#0

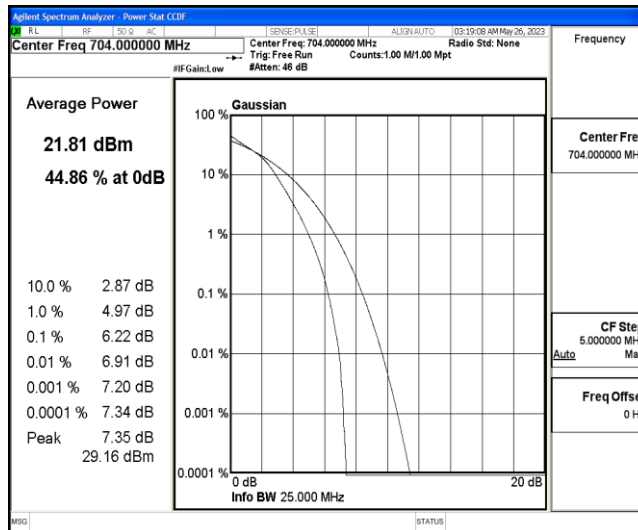


Band12-10MHz-QPSK-23130-50RB#0

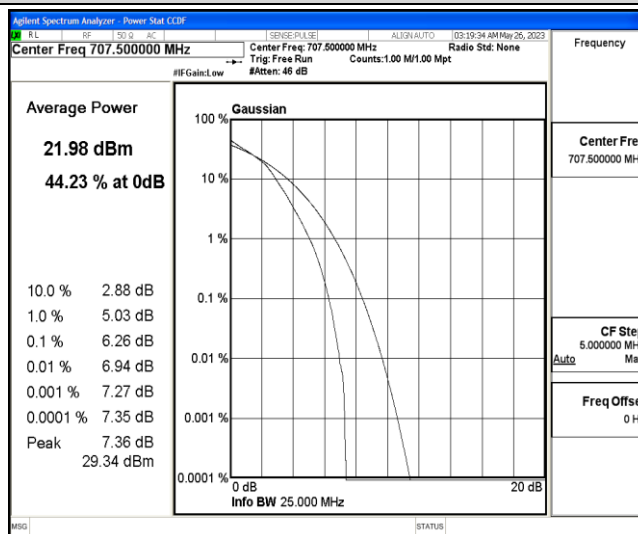




Band12-10MHz-16QAM-23060-50RB#0

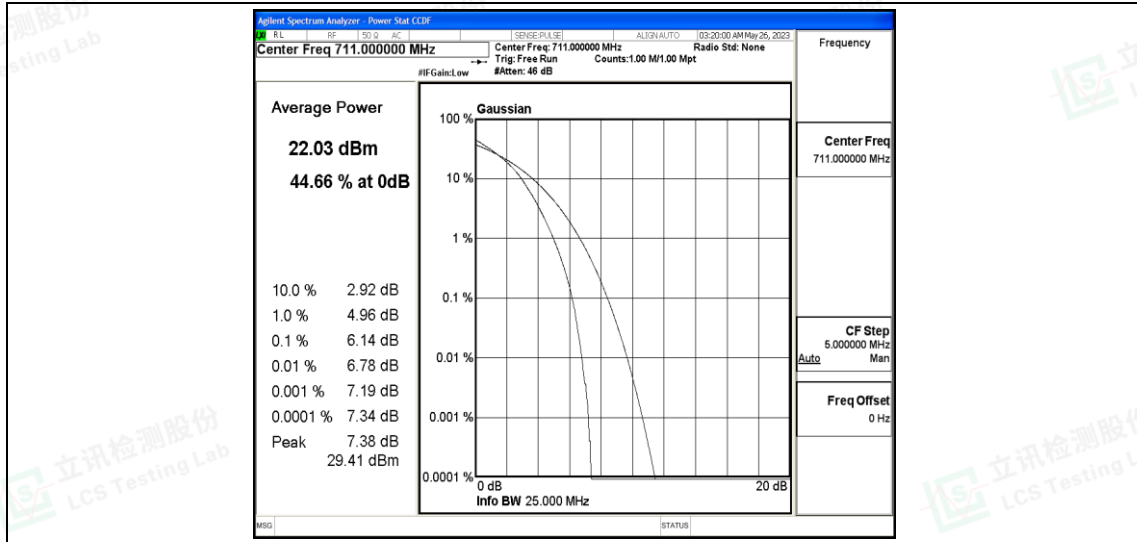


Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0









### J.3 26dB Bandwidth and Occupied Bandwidth

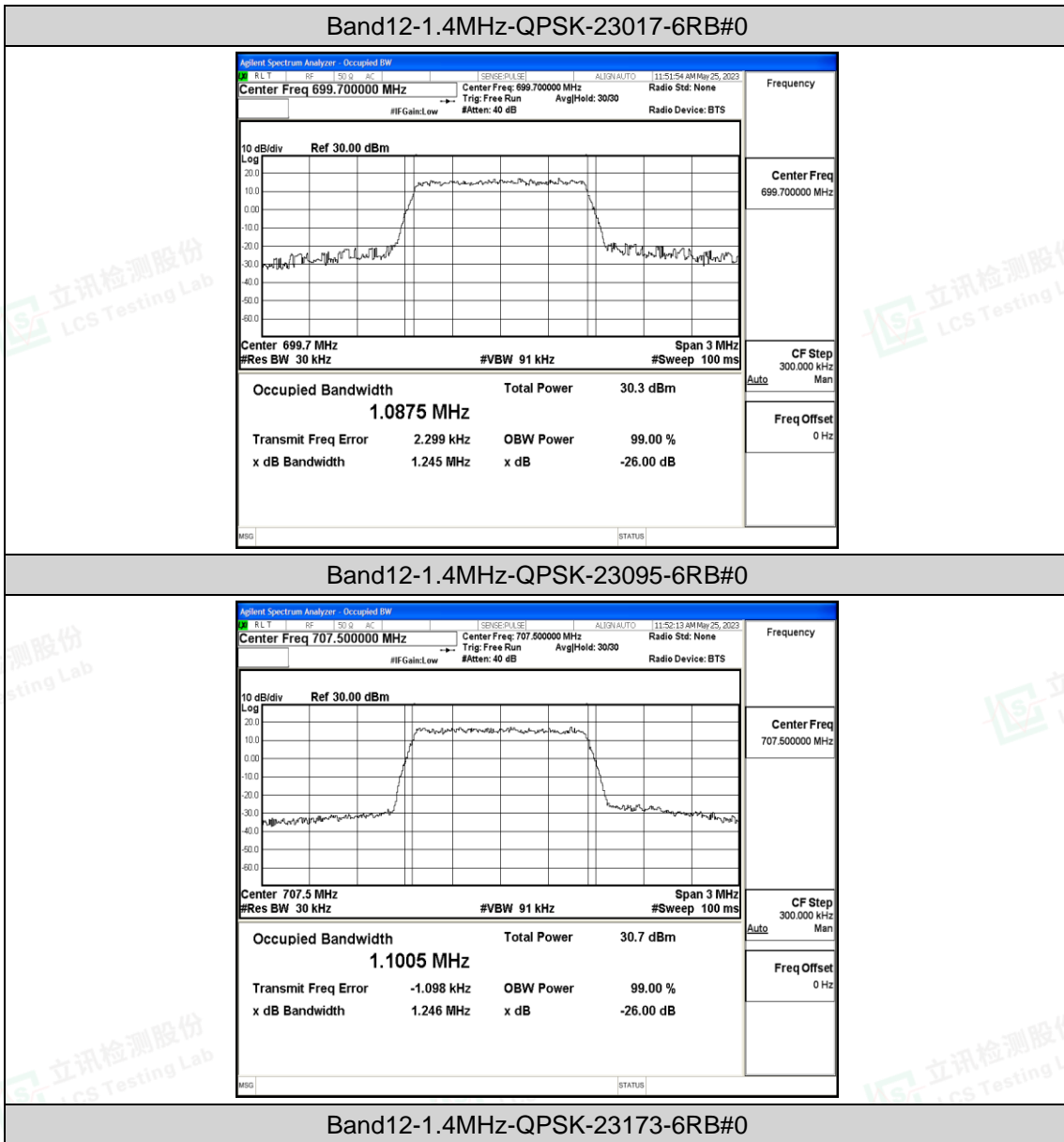
#### Test Result

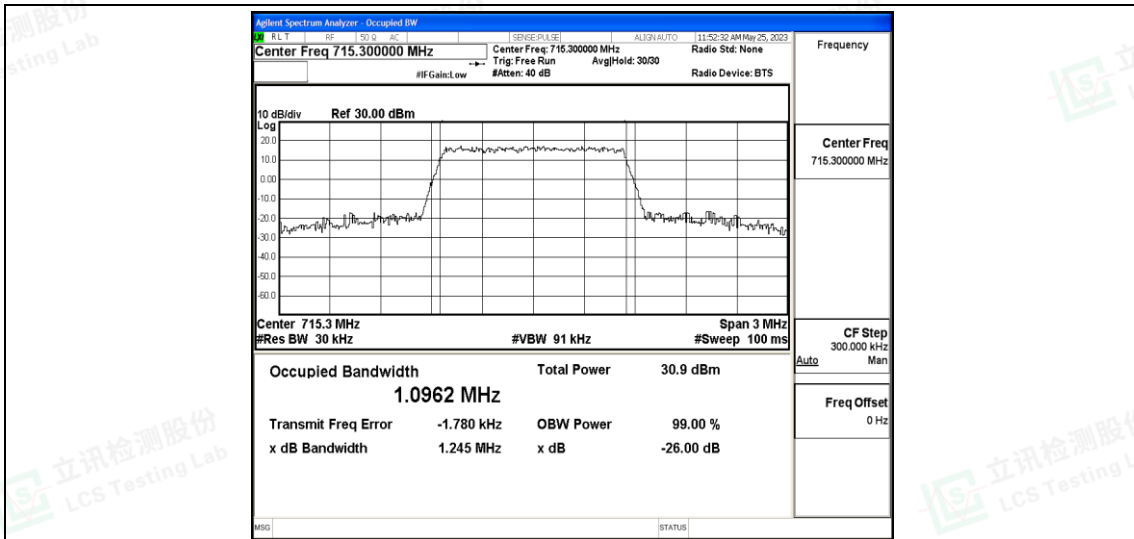
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0875	1.245	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.1005	1.246	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0962	1.245	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1036	1.253	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0957	1.248	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0905	1.238	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7077	3.023	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7050	3.026	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7105	3.024	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6999	3.034	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7132	3.043	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6983	3.025	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5096	4.970	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5030	4.991	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4947	4.957	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5044	4.955	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5170	4.990	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4978	4.995	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9696	9.856	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0263	9.952	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9786	9.865	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9644	9.853	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0200	9.942	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9983	9.871	PASS



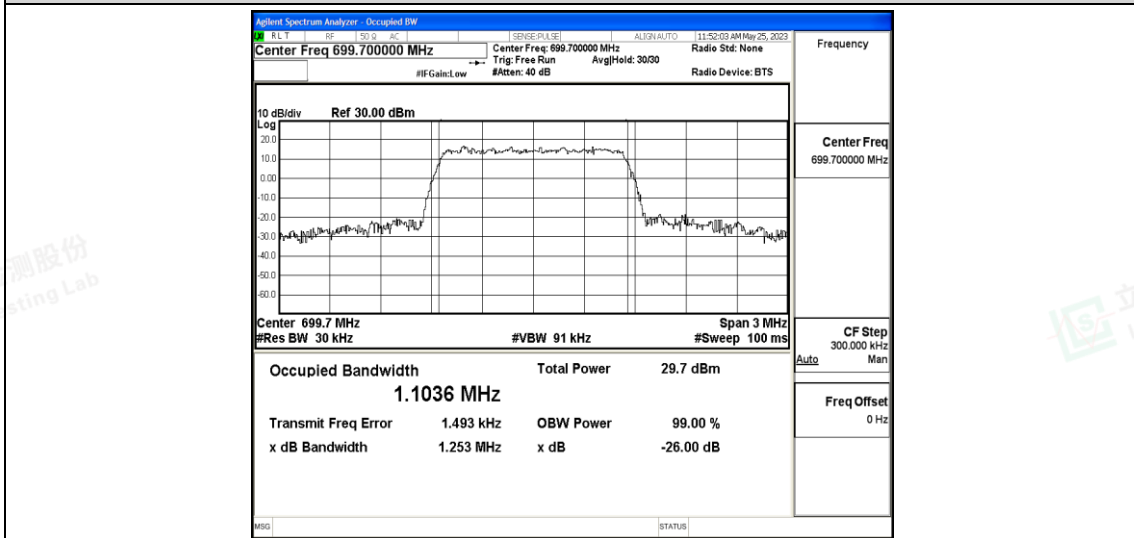


Test Graphs

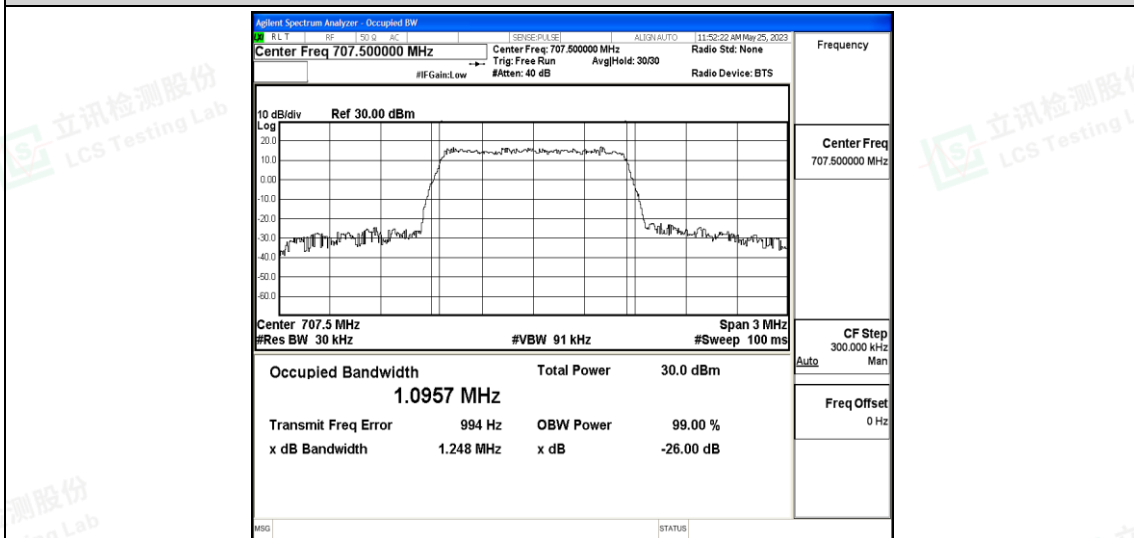




Band12-1.4MHz-16QAM-23017-6RB#0

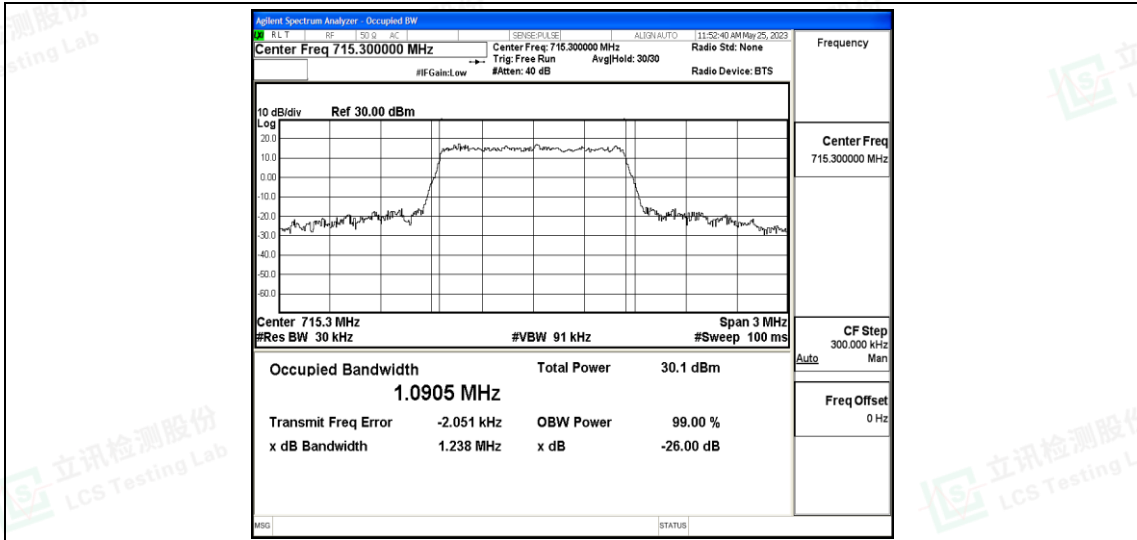


Band12-1.4MHz-16QAM-23095-6RB#0

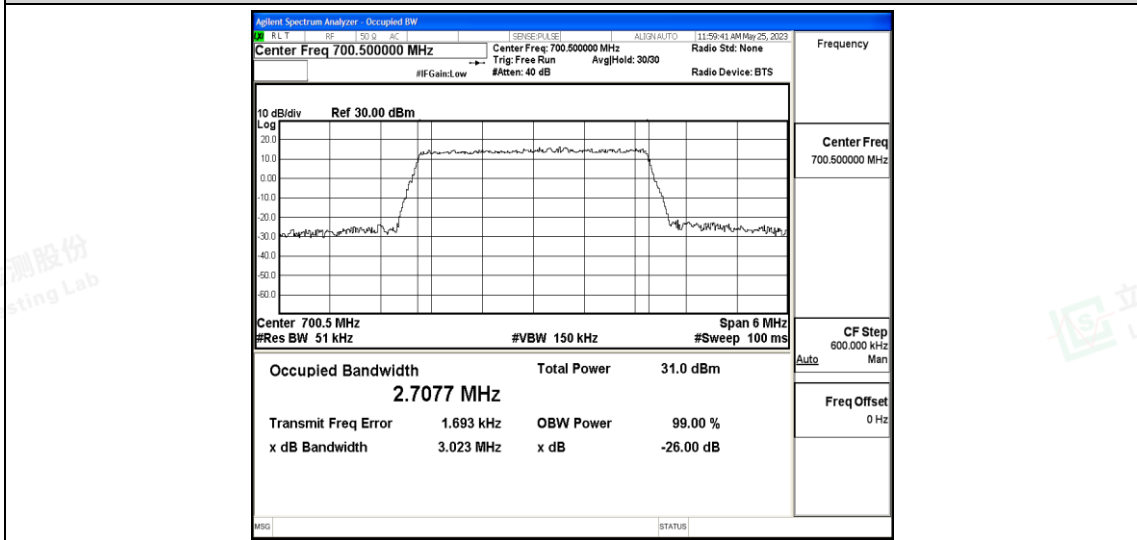


Band12-1.4MHz-16QAM-23173-6RB#0

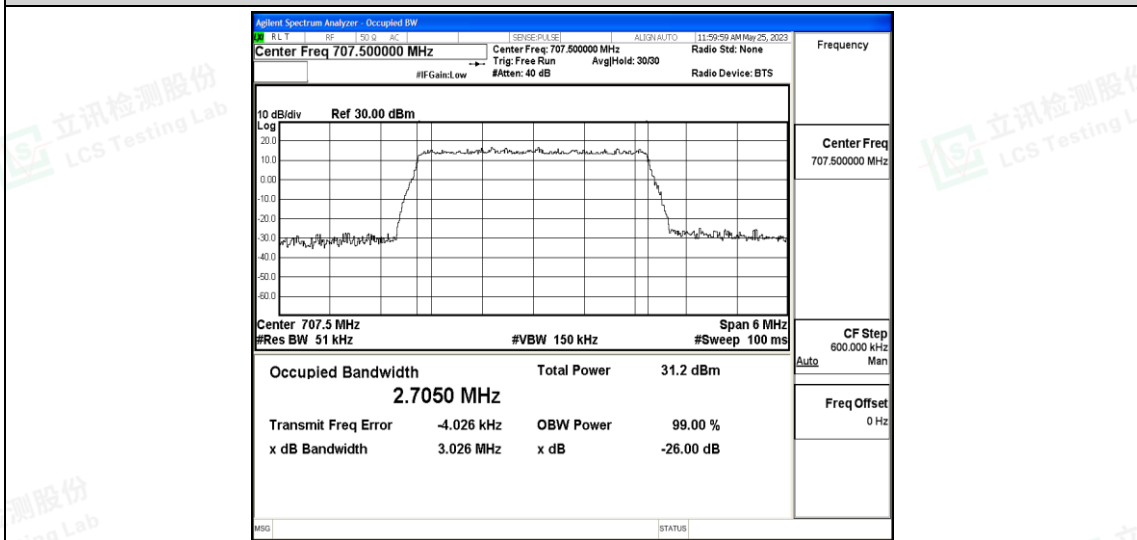




**Band12-3MHz-QPSK-23025-15RB#0**

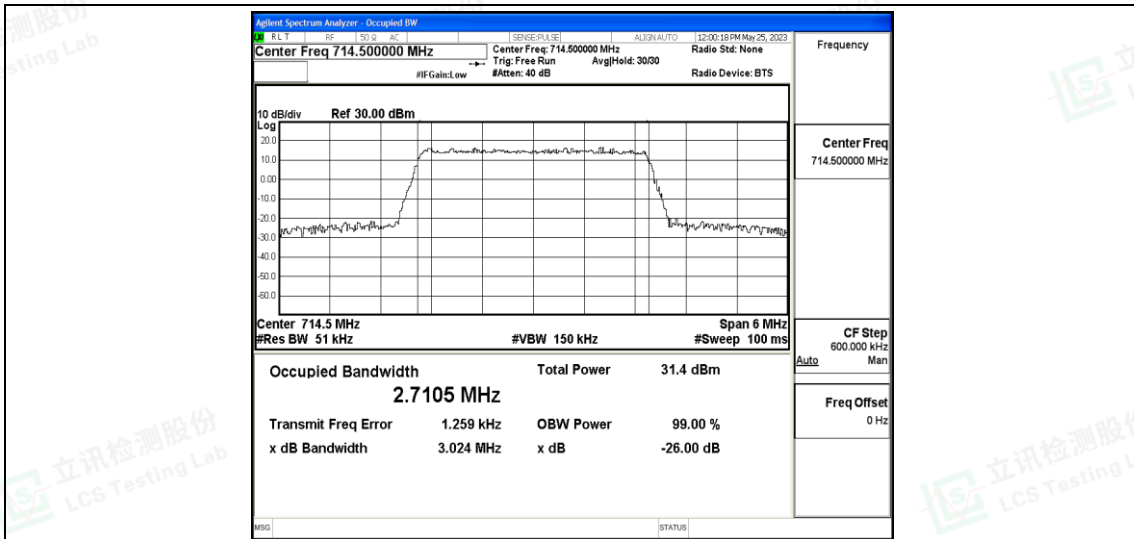


**Band12-3MHz-QPSK-23095-15RB#0**

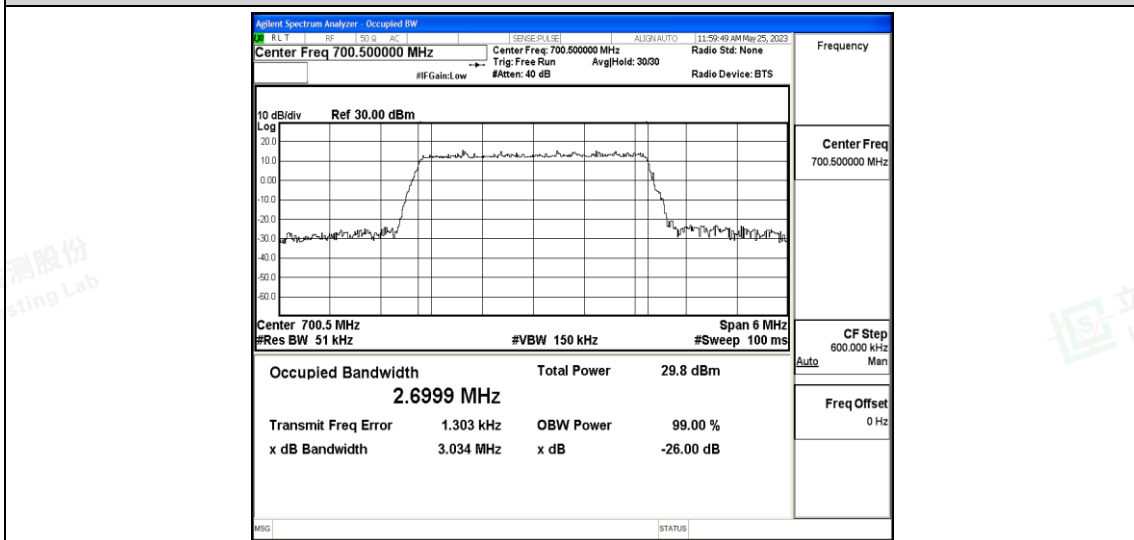


**Band12-3MHz-QPSK-23165-15RB#0**

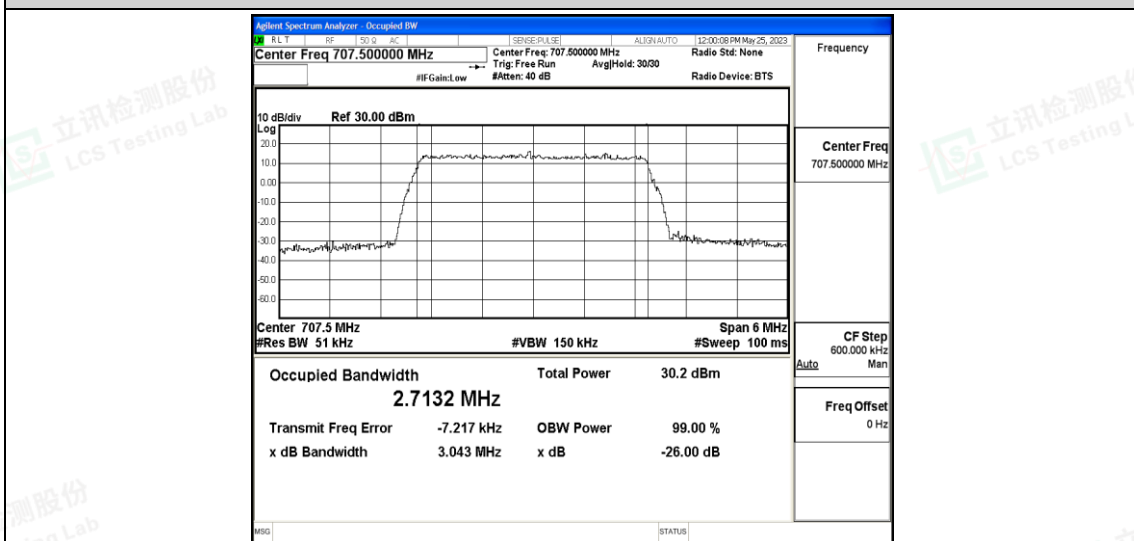




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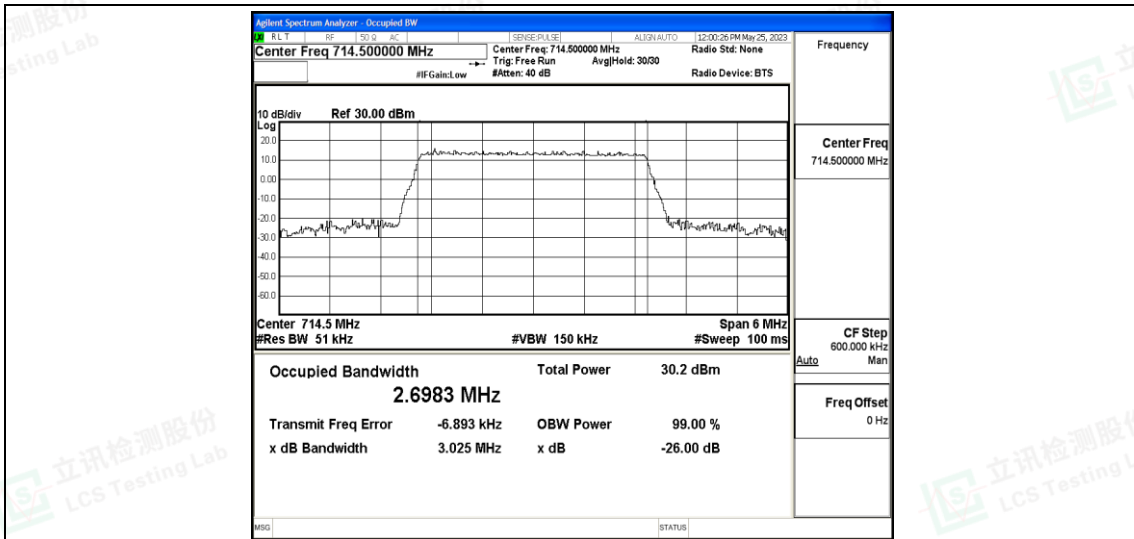


Band12-3MHz-16QAM-23095-15RB#0

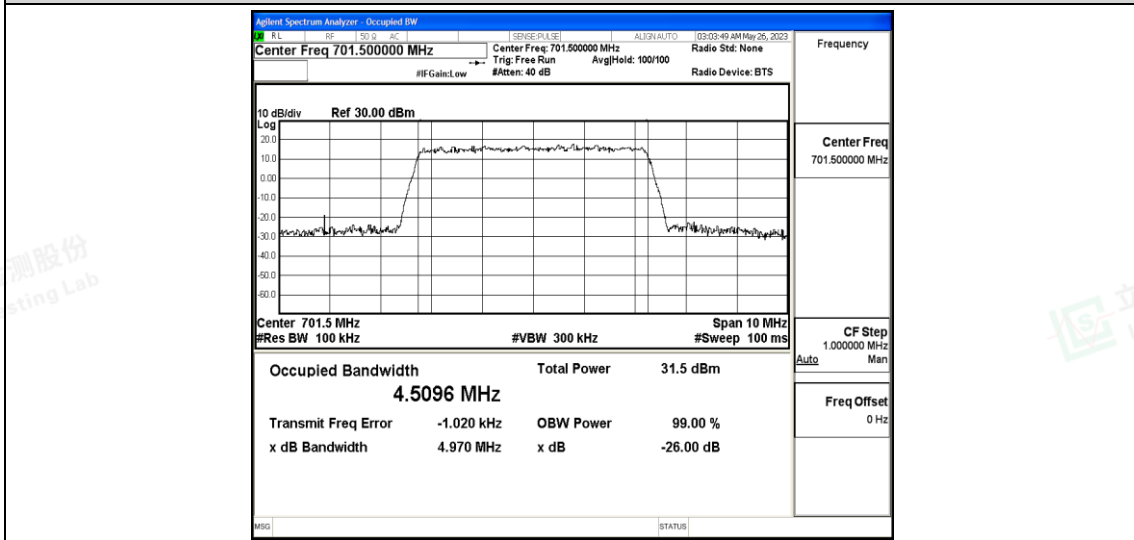


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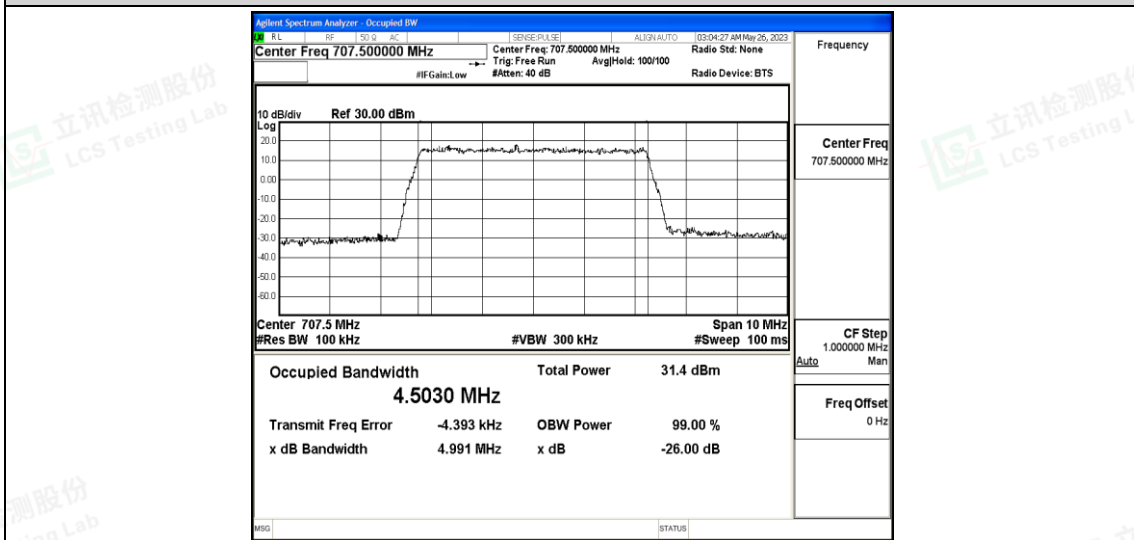




Band12-5MHz-QPSK-23035-25RB#0

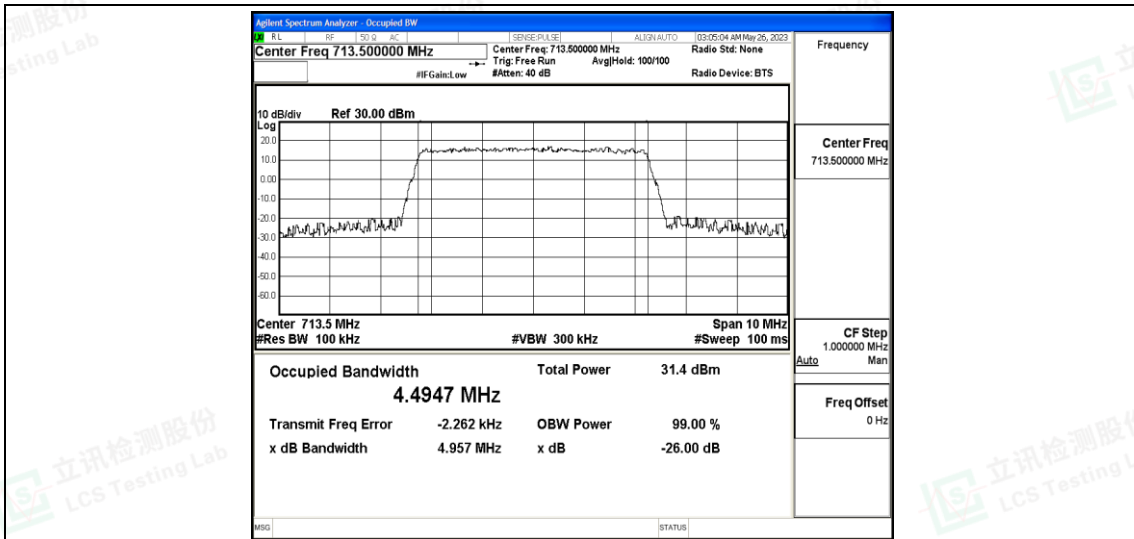


Band12-5MHz-QPSK-23095-25RB#0

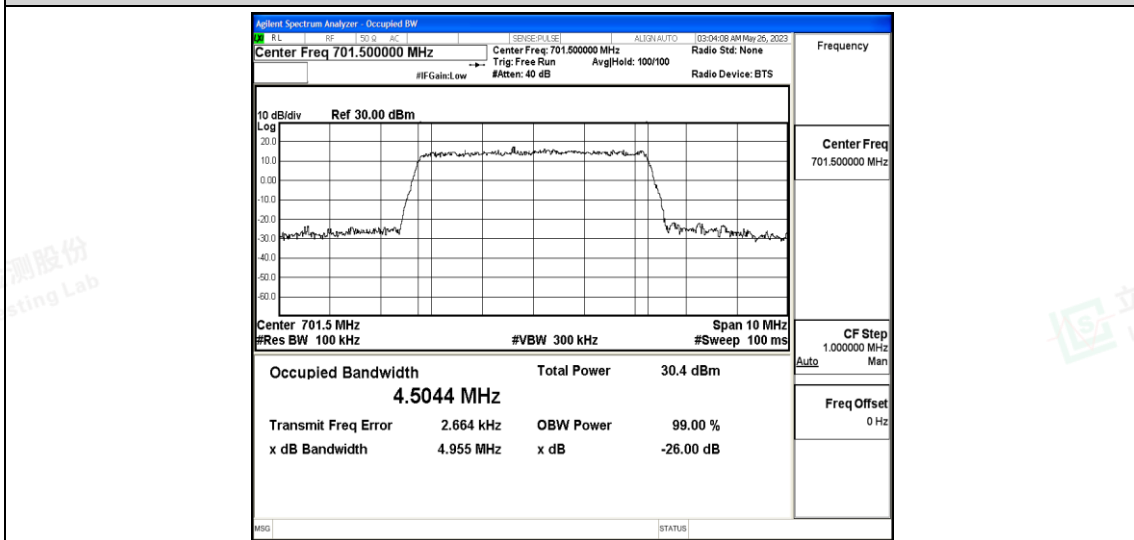


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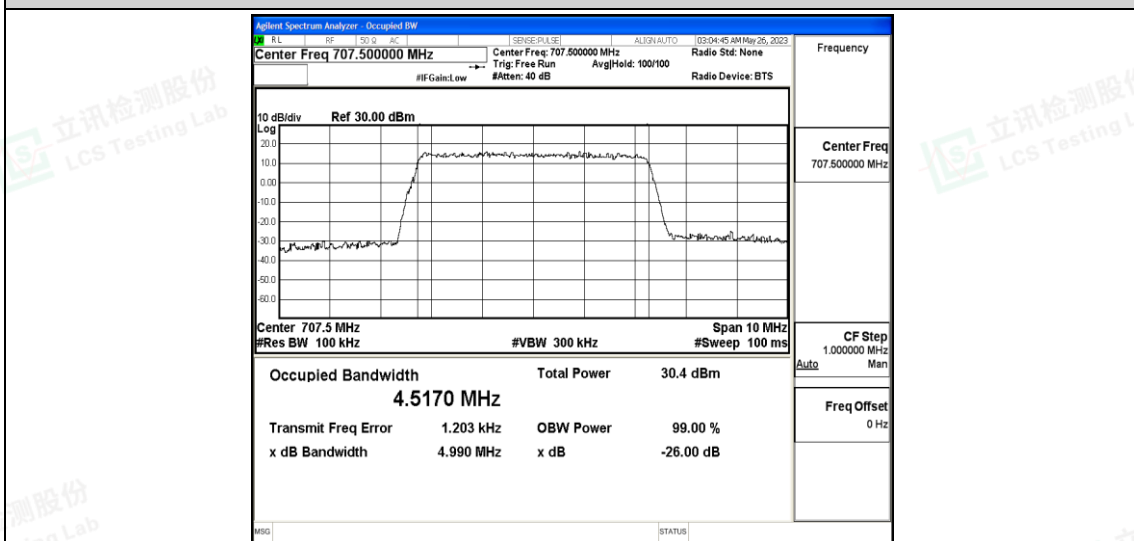




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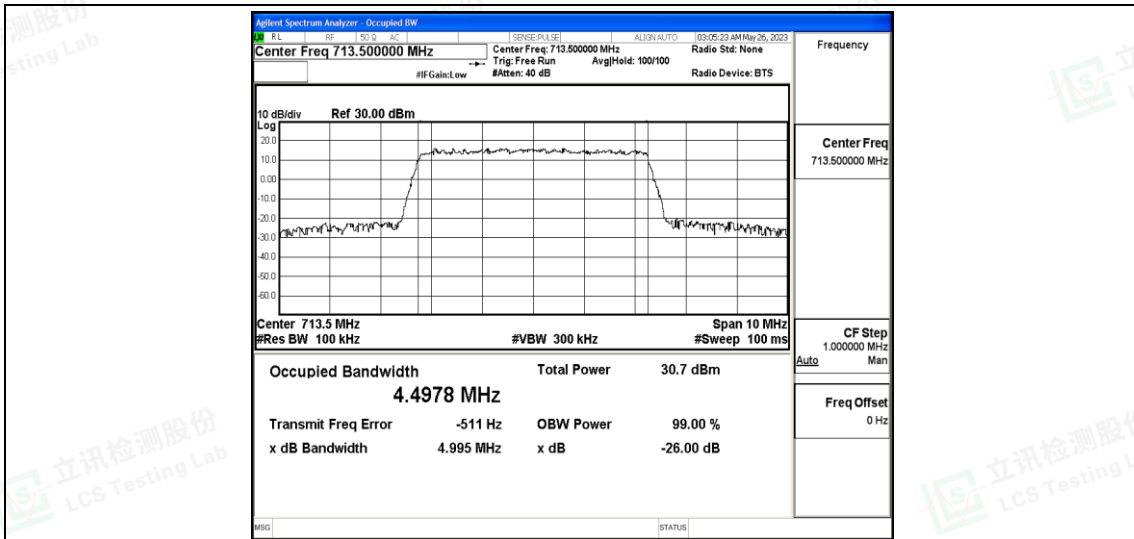


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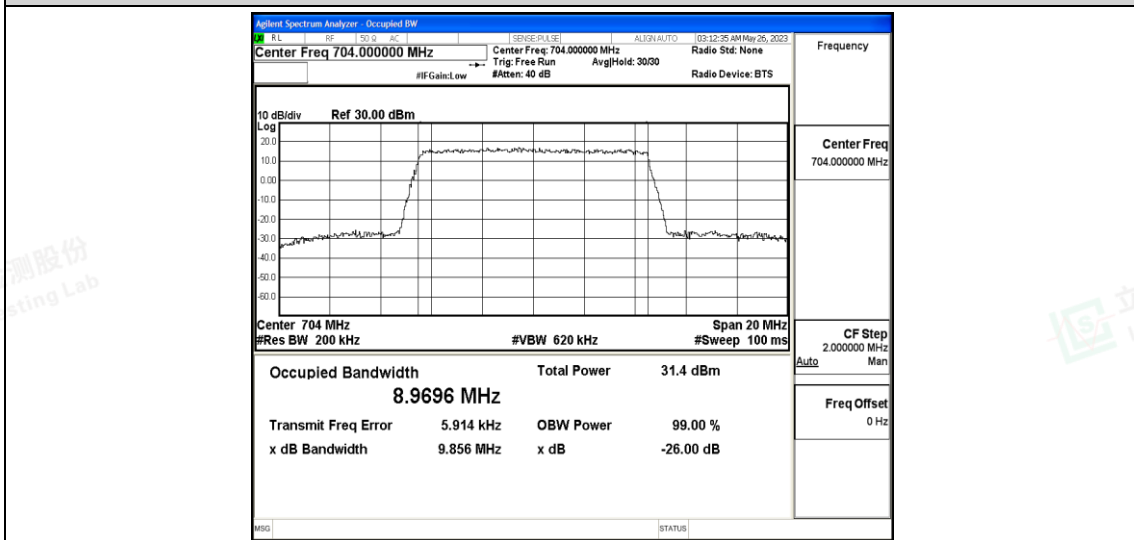


Band12-5MHz-16QAM-23155-25RB#0

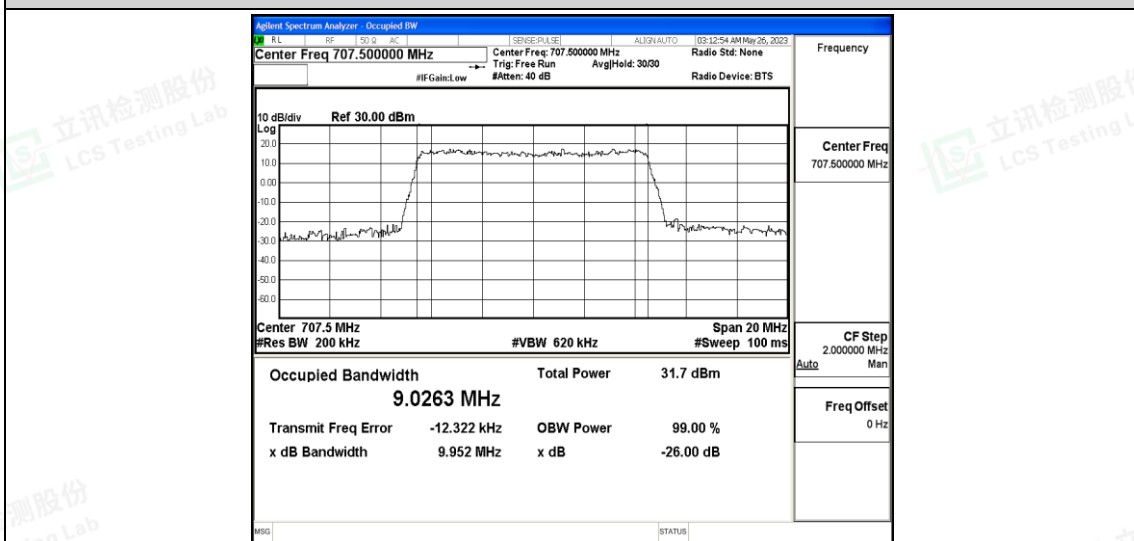




Band12-10MHz-QPSK-23060-50RB#0



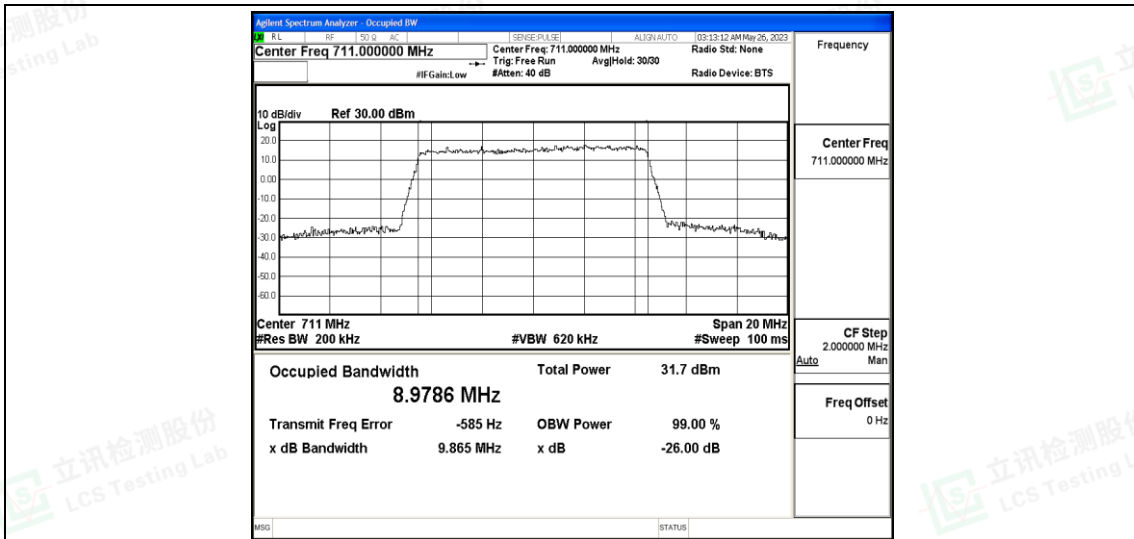
Band12-10MHz-QPSK-23095-50RB#0



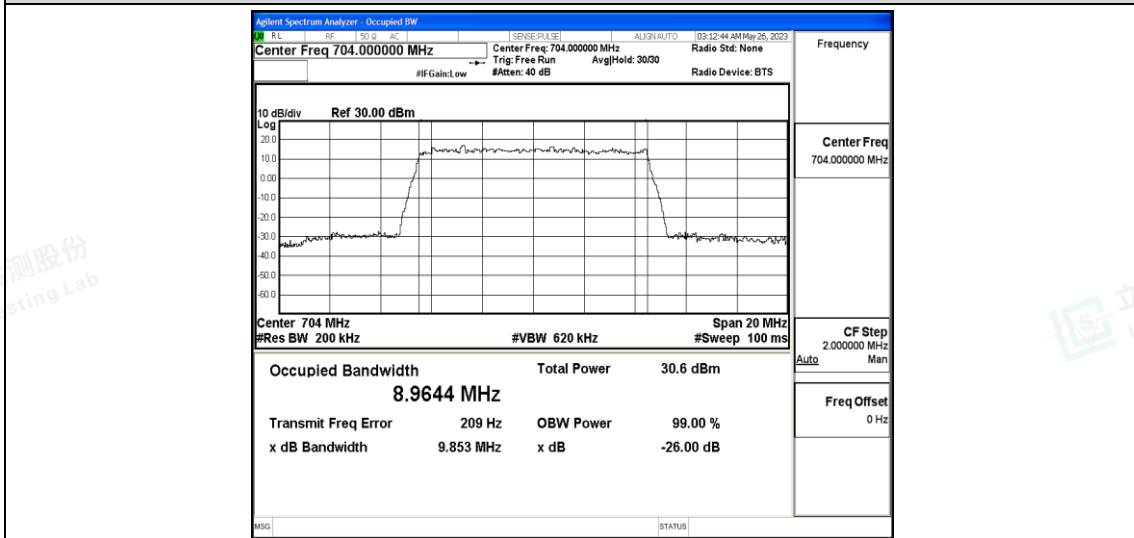
Band12-10MHz-QPSK-23130-50RB#0



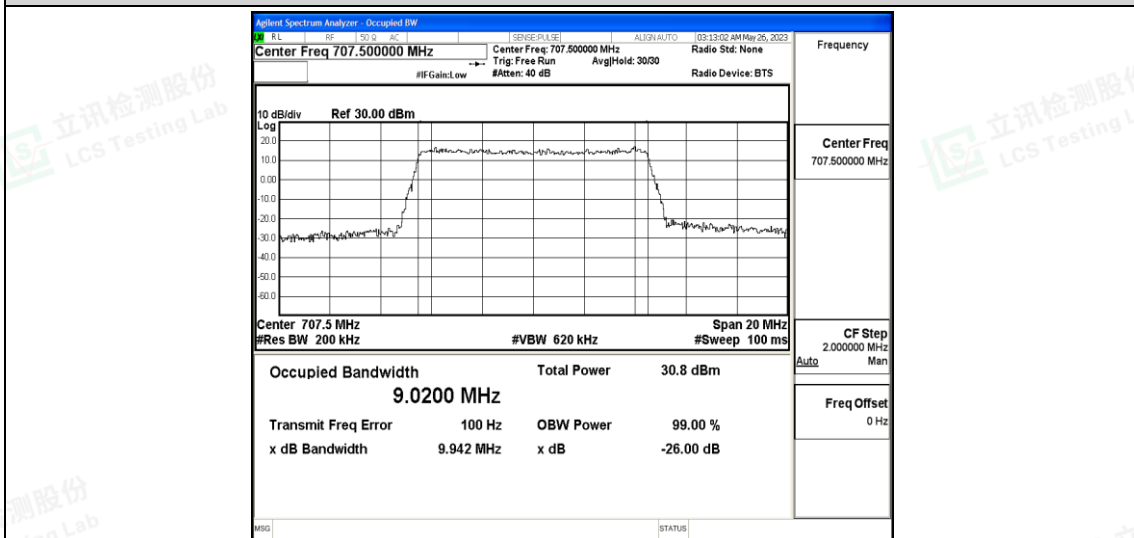




Band12-10MHz-16QAM-23060-50RB#0

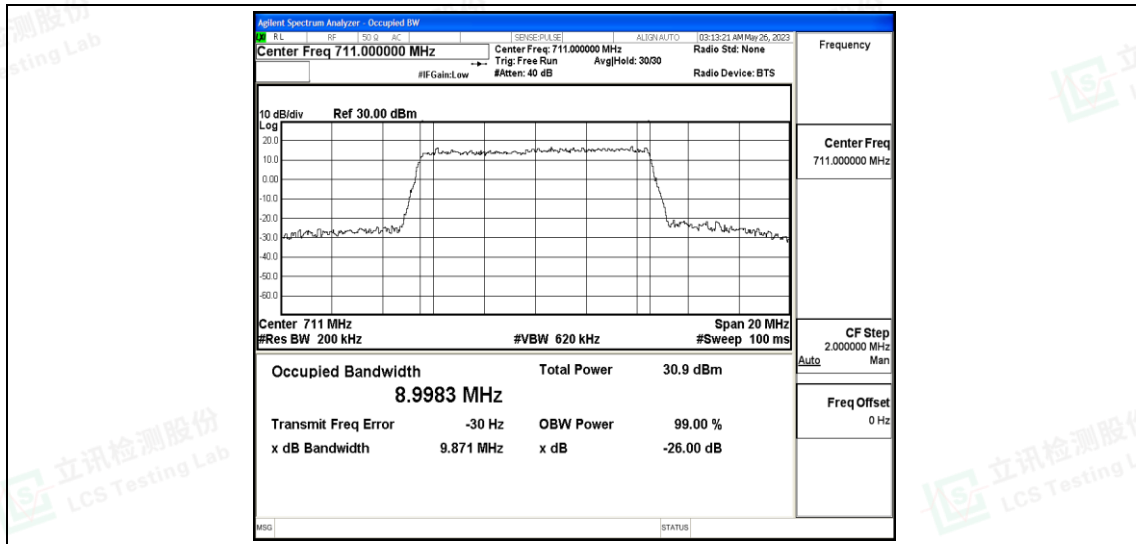


Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0





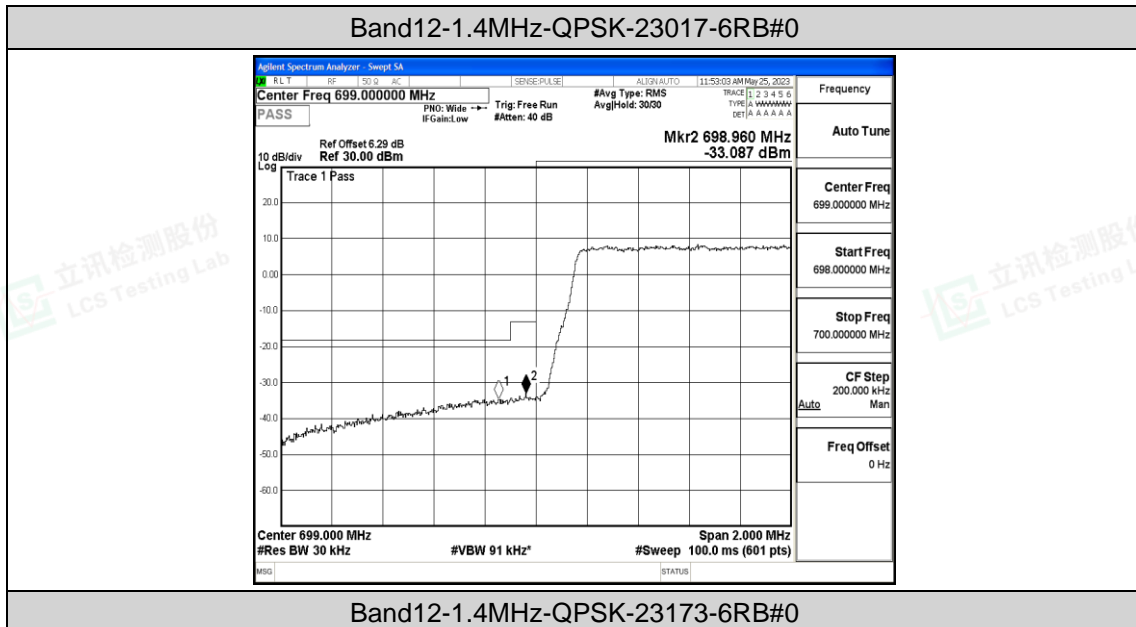


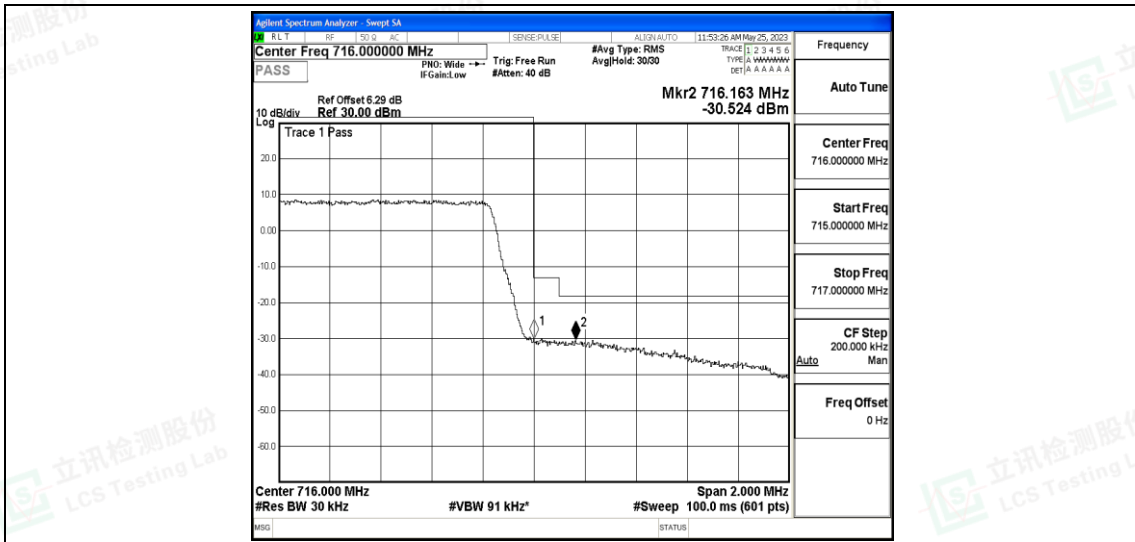
## J.4 Band Edge

### Test Result

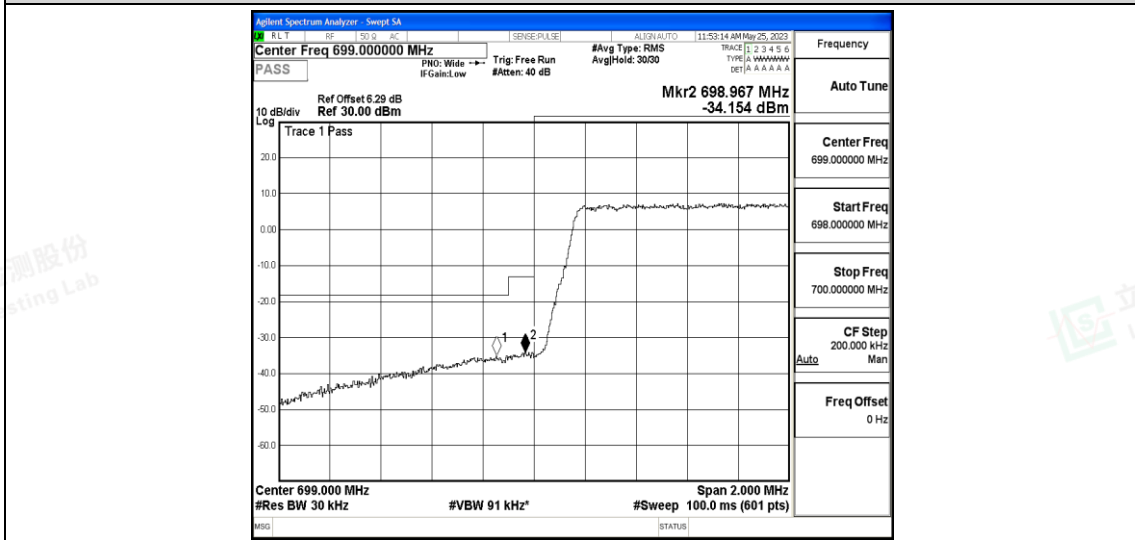
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-34.64,-33.09	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-30.04,-30.52	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-35.05,-34.15	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-30.95,-32.11	PASS
Band12	3MHz	QPSK	23025	15RB#0	-34.53,-22.00	PASS
Band12	3MHz	QPSK	23165	15RB#0	-22.43,-33.01	PASS
Band12	3MHz	16QAM	23025	15RB#0	-36.22,-23.67	PASS
Band12	3MHz	16QAM	23165	15RB#0	-22.92,-34.99	PASS
Band12	5MHz	QPSK	23035	25RB#0	-27.33	PASS
Band12	5MHz	QPSK	23155	25RB#0	-26.69	PASS
Band12	5MHz	16QAM	23035	25RB#0	-27.76	PASS
Band12	5MHz	16QAM	23155	25RB#0	-27.33	PASS
Band12	10MHz	QPSK	23060	50RB#0	-34.39,-30.88	PASS
Band12	10MHz	QPSK	23130	50RB#0	-28.47,-31.61	PASS
Band12	10MHz	16QAM	23060	50RB#0	-35.08,-31.13	PASS
Band12	10MHz	16QAM	23130	50RB#0	-29.97,-33.41	PASS

### Test Graphs

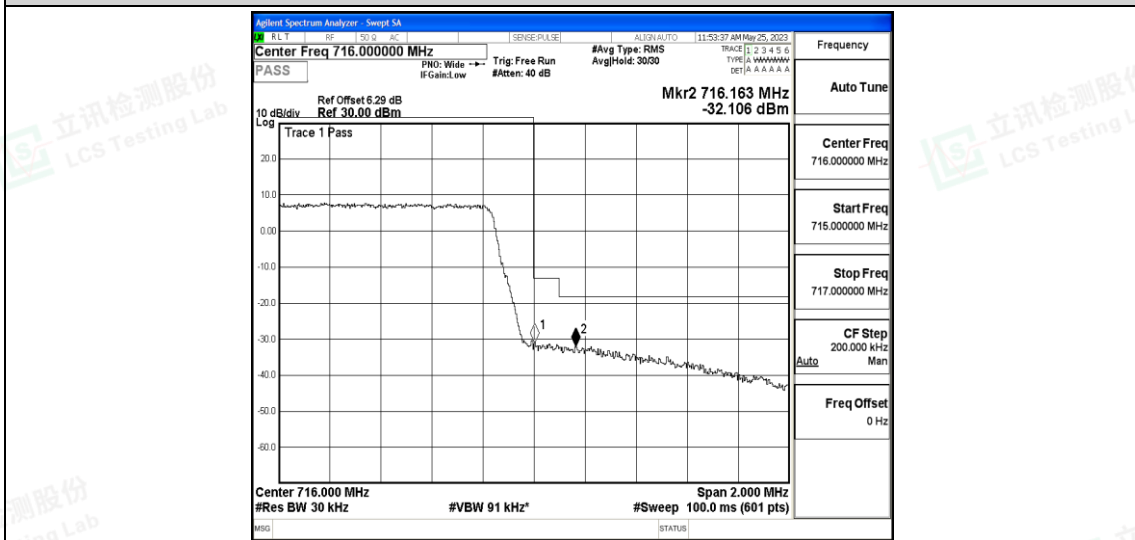




Band12-1.4MHz-16QAM-23017-6RB#0

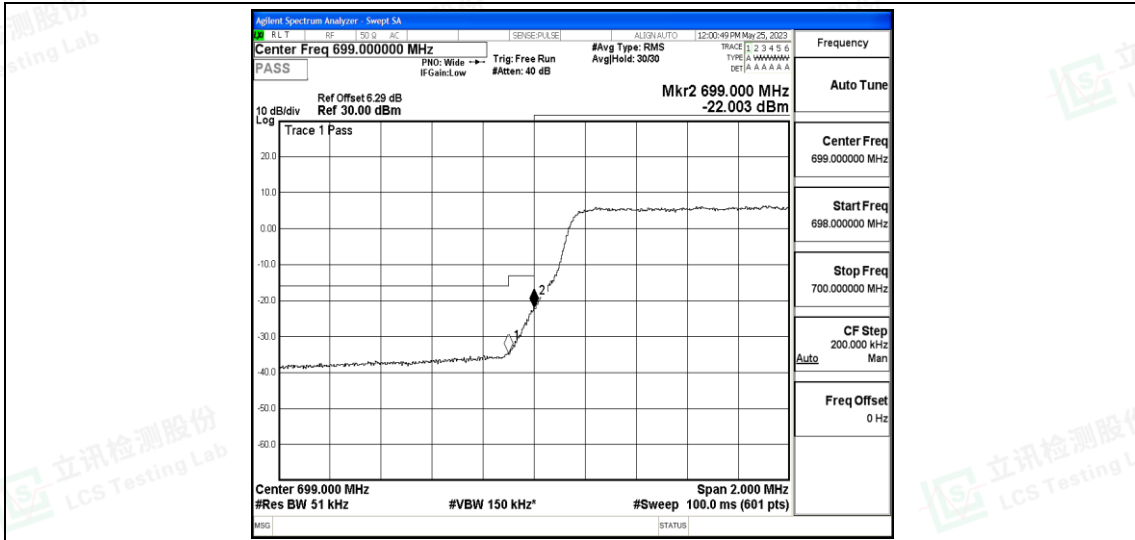


Band12-1.4MHz-16QAM-23173-6RB#0

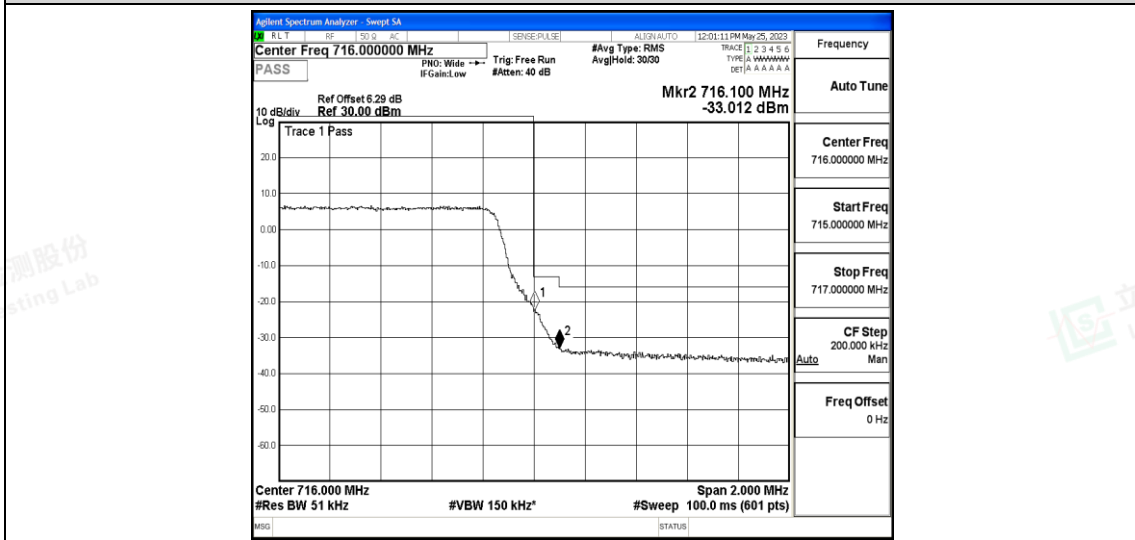


Band12-3MHz-QPSK-23025-15RB#0

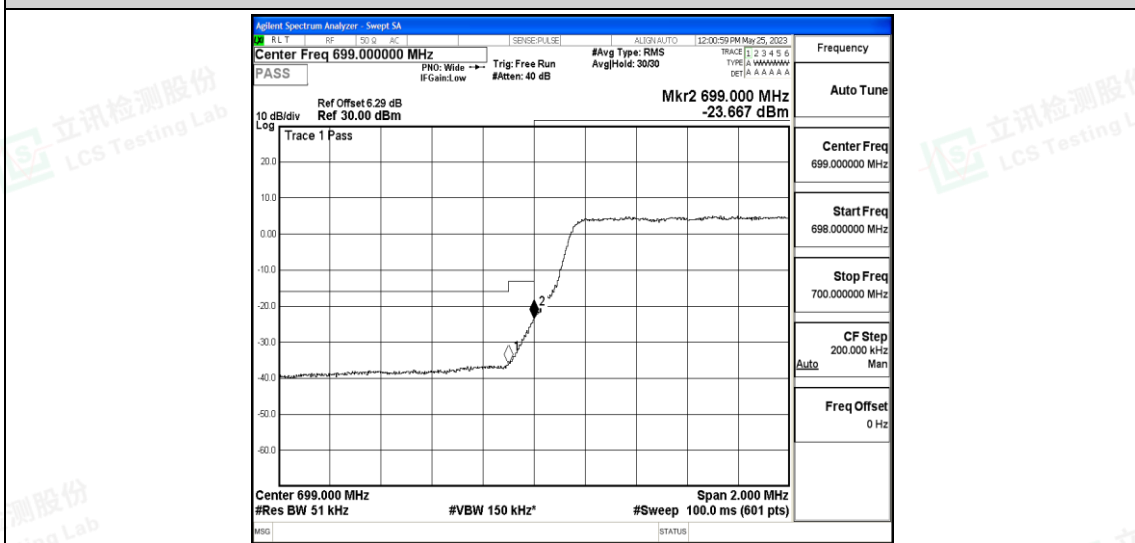




Band12-3MHz-QPSK-23165-15RB#0

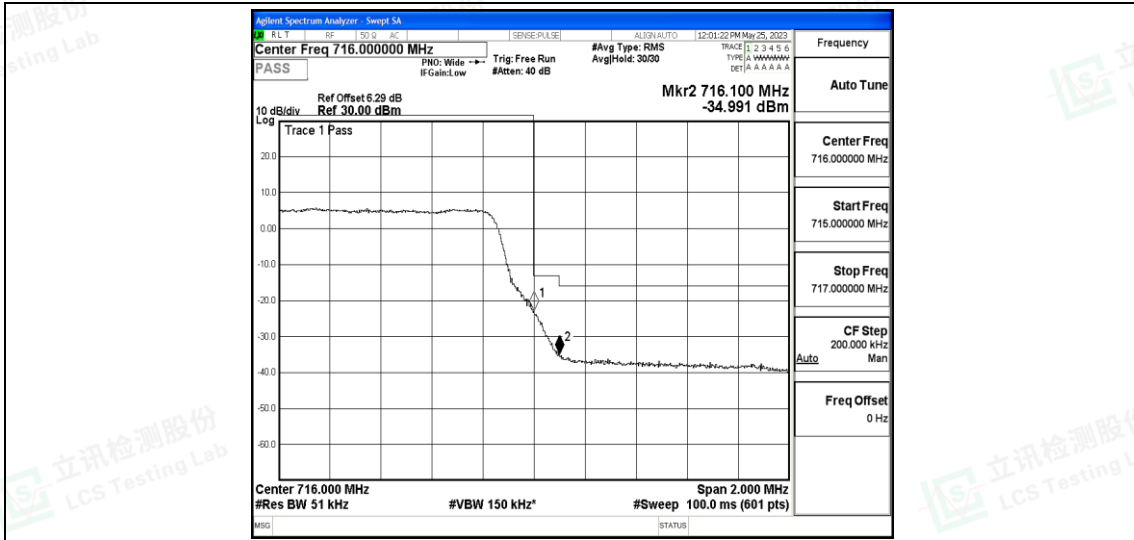


Band12-3MHz-16QAM-23025-15RB#0

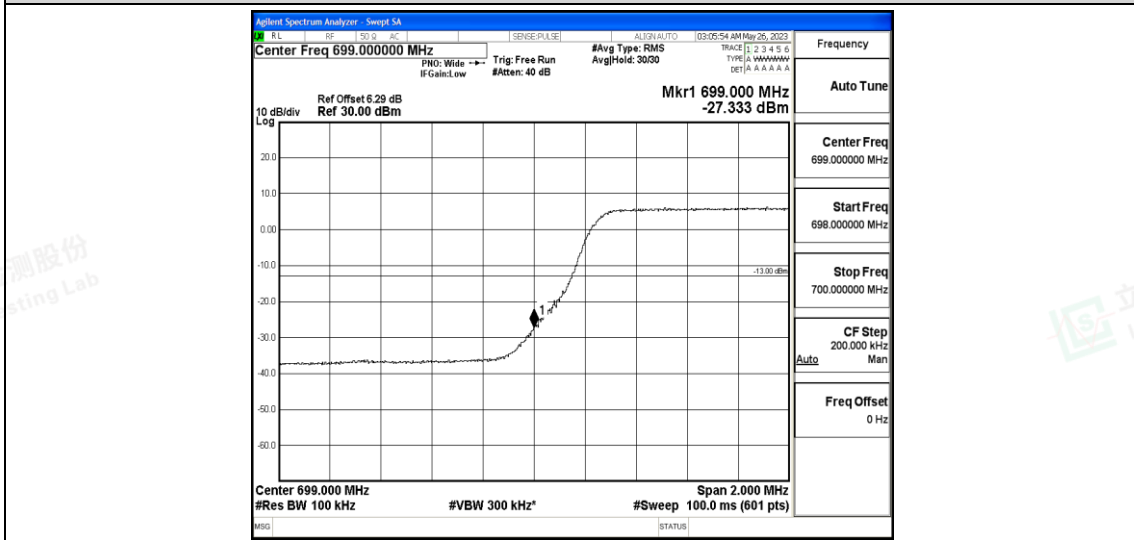


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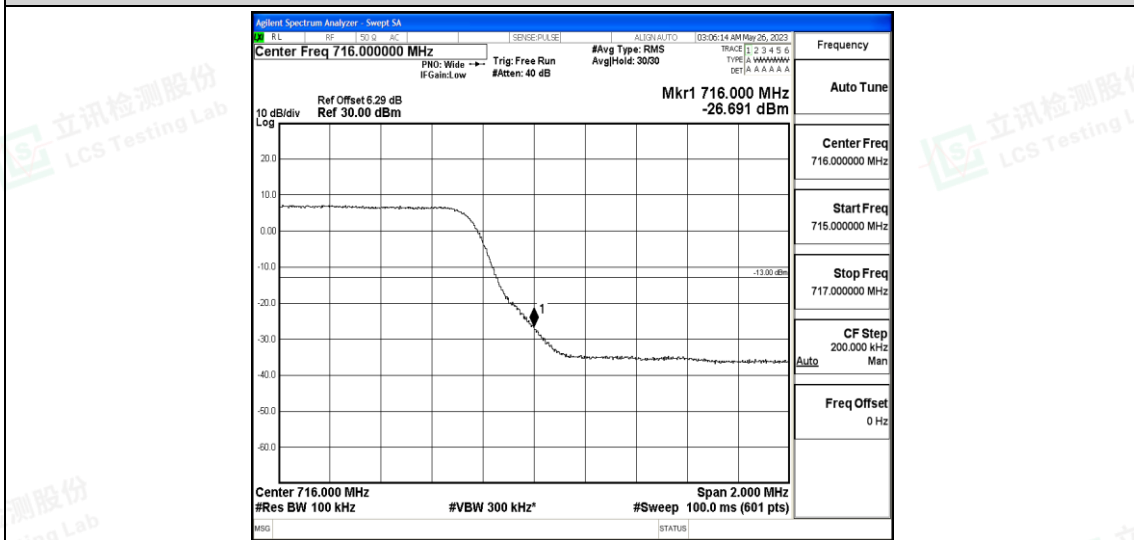




Band12-5MHz-QPSK-23035-25RB#0

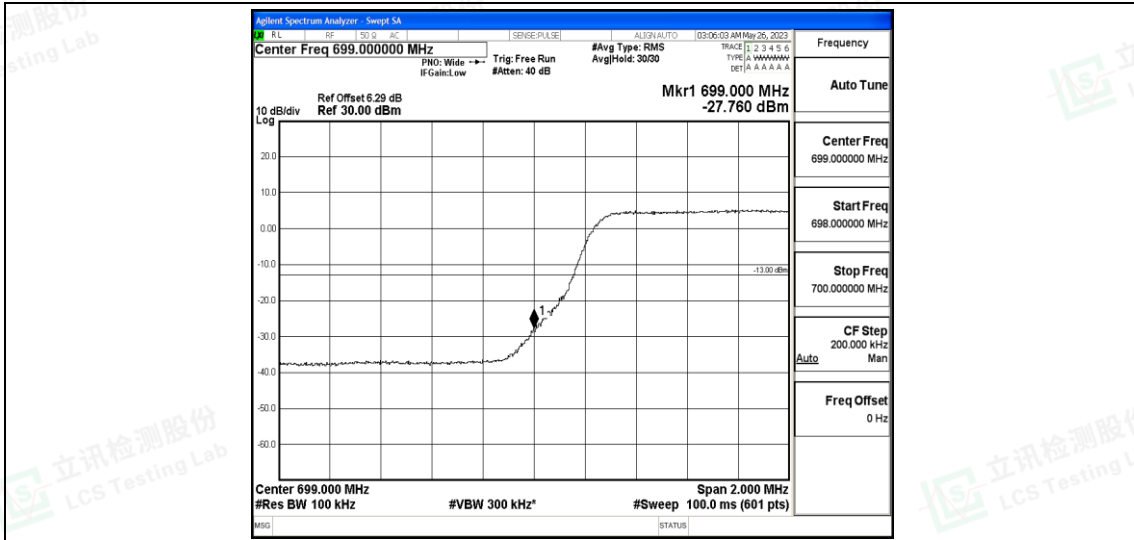


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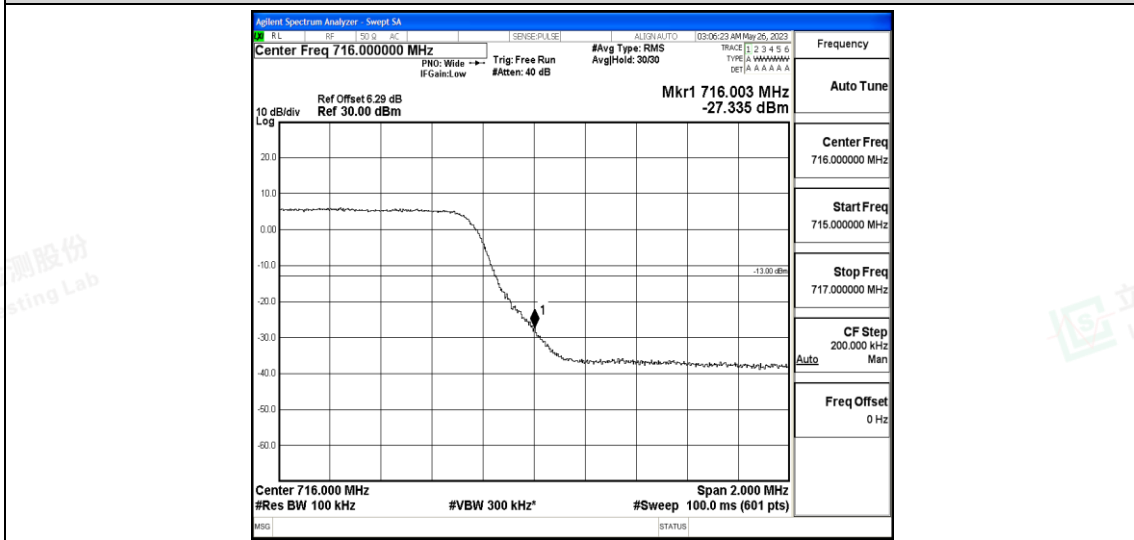


Band12-5MHz-16QAM-23035-25RB#0

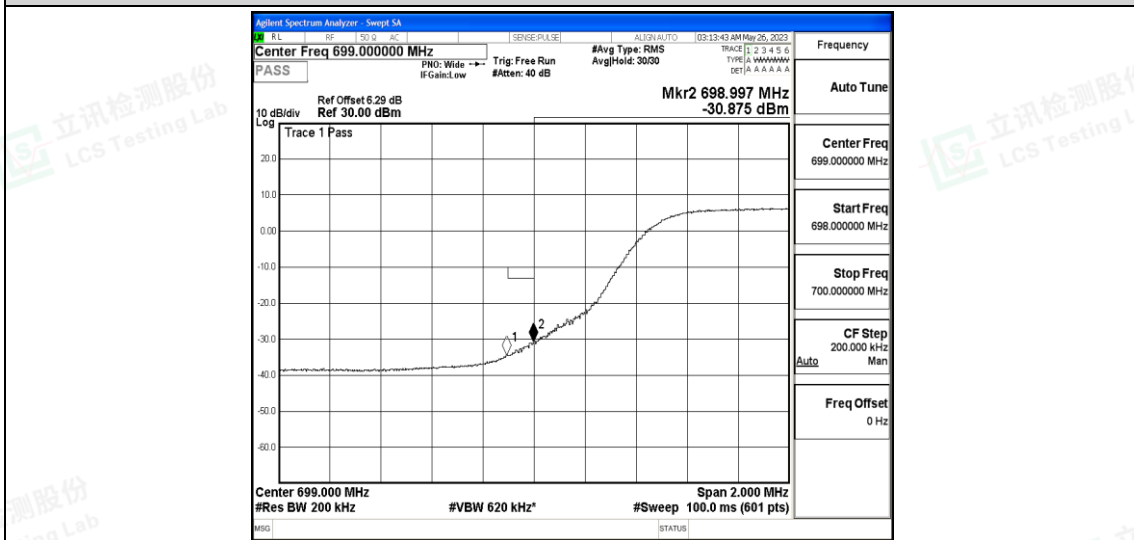




Band12-5MHz-16QAM-23155-25RB#0

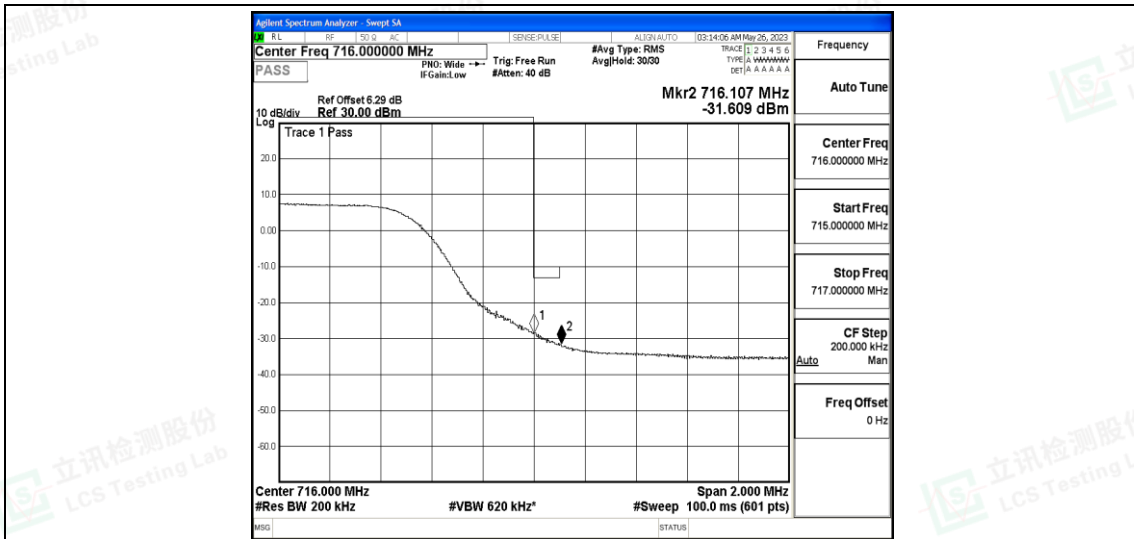


Band12-10MHz-QPSK-23060-50RB#0

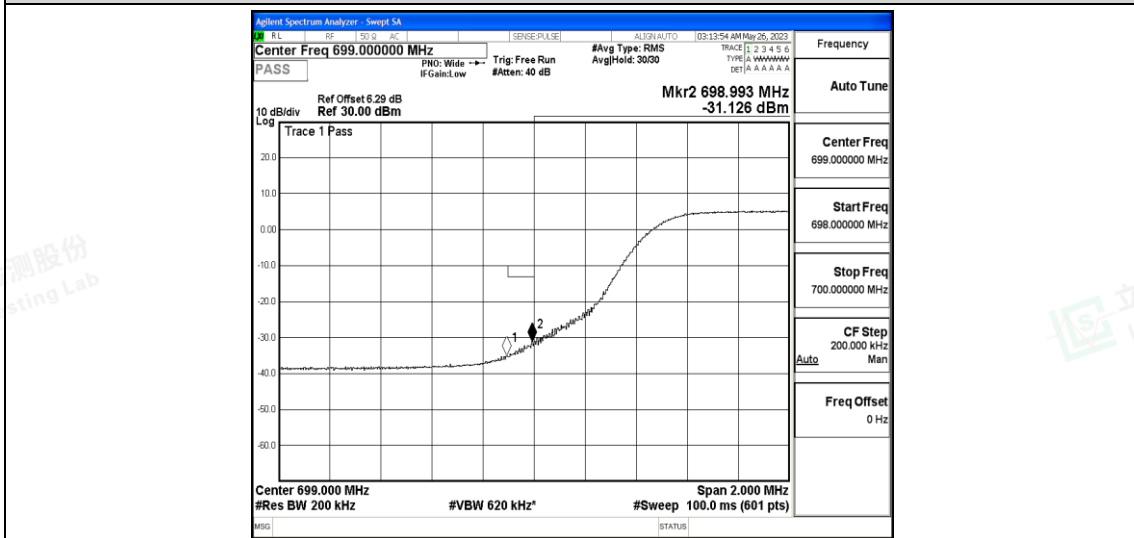


Band12-10MHz-QPSK-23130-50RB#0





Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-50RB#0

