



Appendix F: Test Data for E-UTRA Band 17

Product Name: 4G Module

Test Model: Air795U

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





F.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	22.73	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.01	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.80	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.96	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.68	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.97	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.65	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.90	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.48	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.89	PASS





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

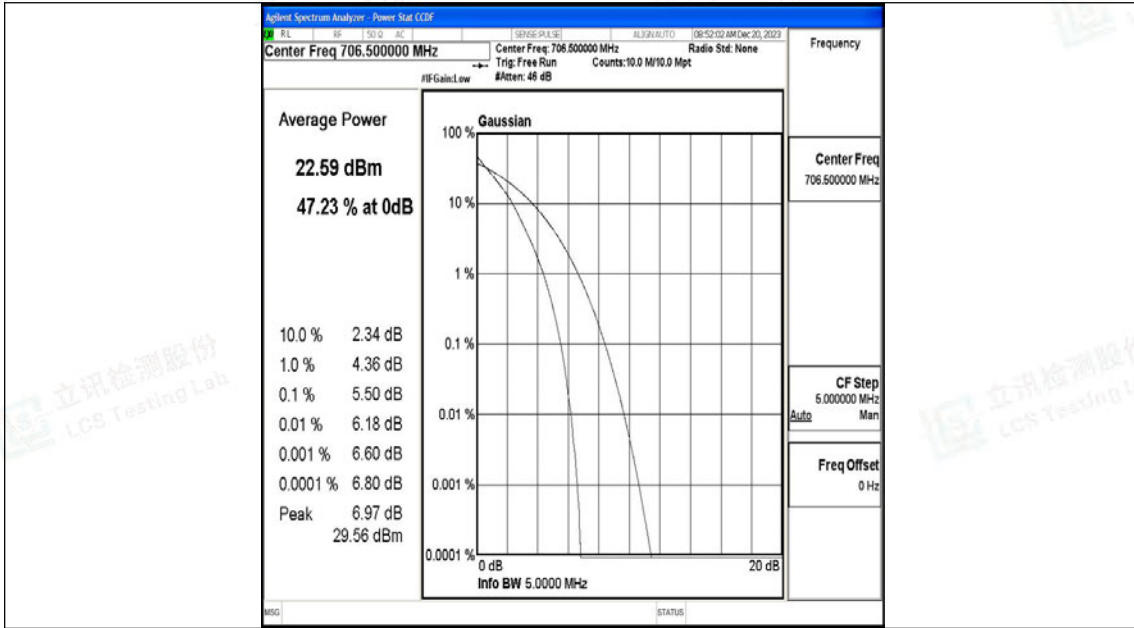
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.50	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.14	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.51	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.13	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.30	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.96	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.53	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.18	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.47	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.19	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.42	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.13	13	PASS

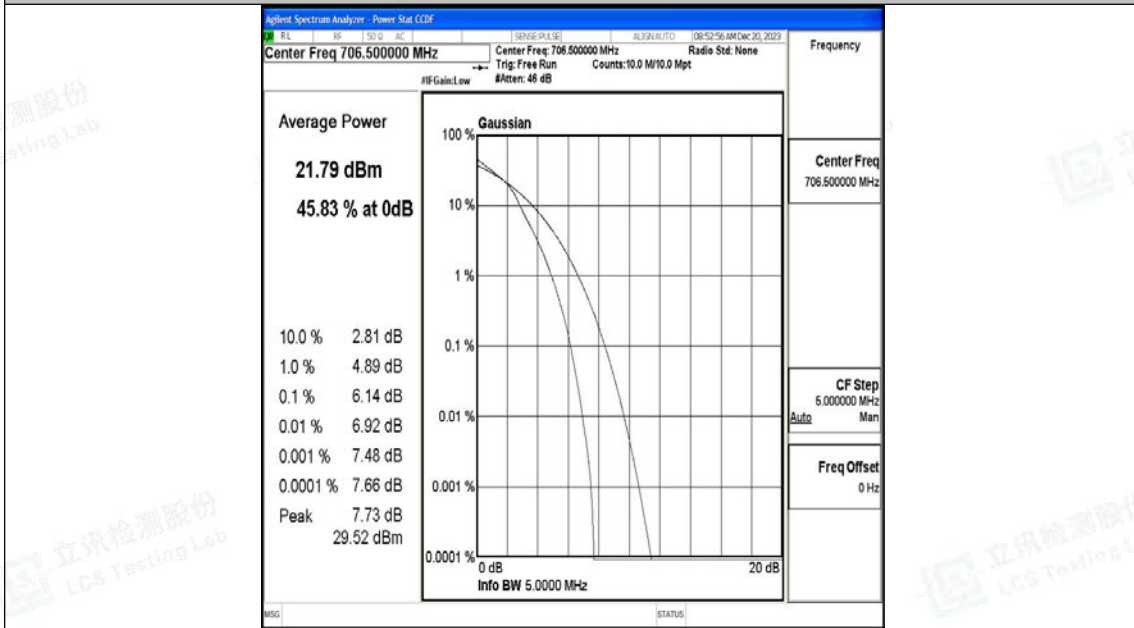




Test Graphs

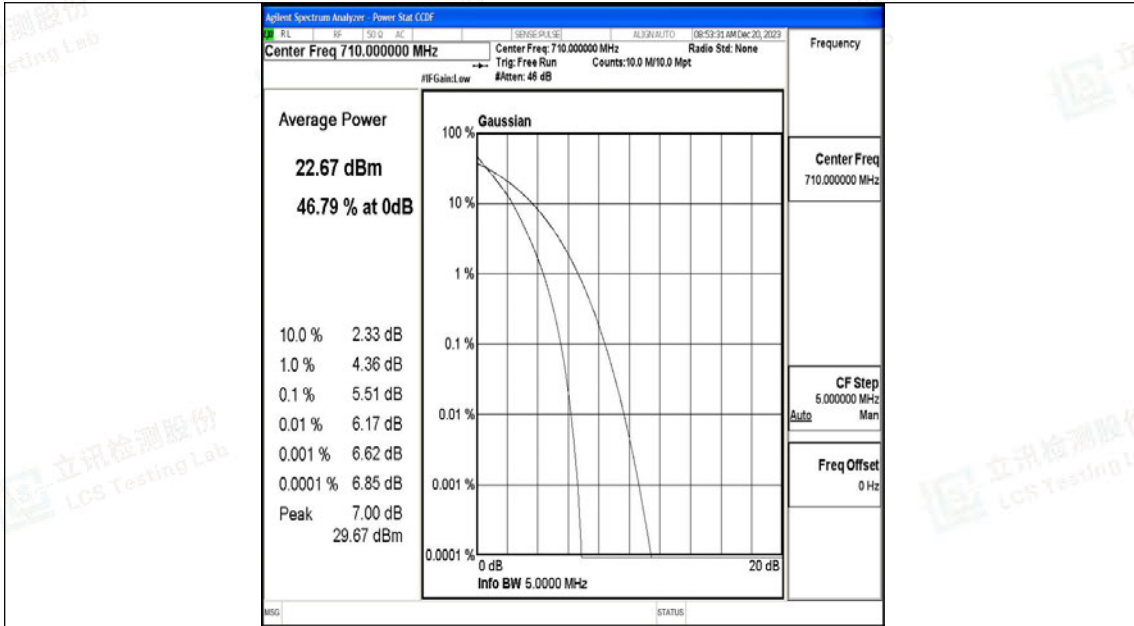


Band17-5MHz-QPSK-23755-25RB#0-PASS

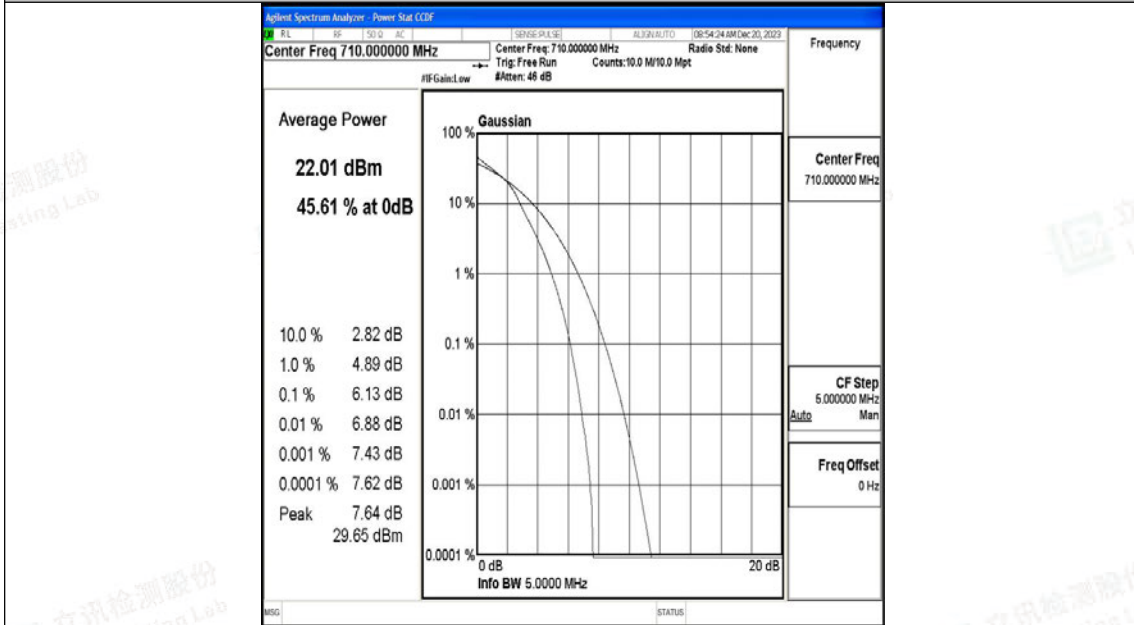


Band17-5MHz-16QAM-23755-25RB#0-PASS



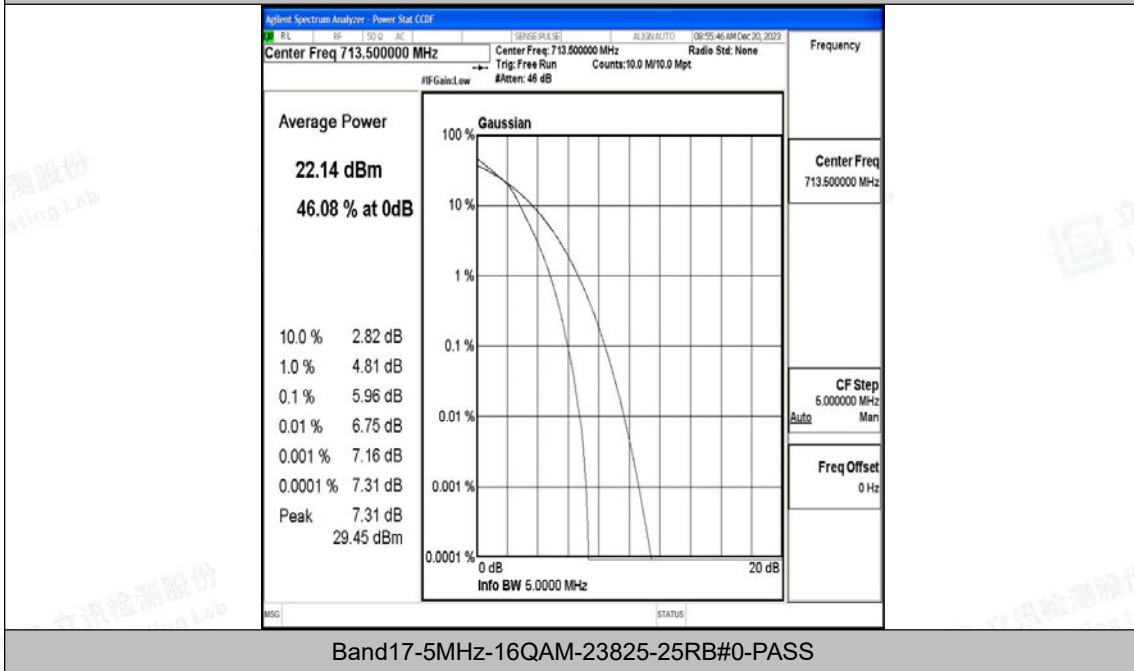
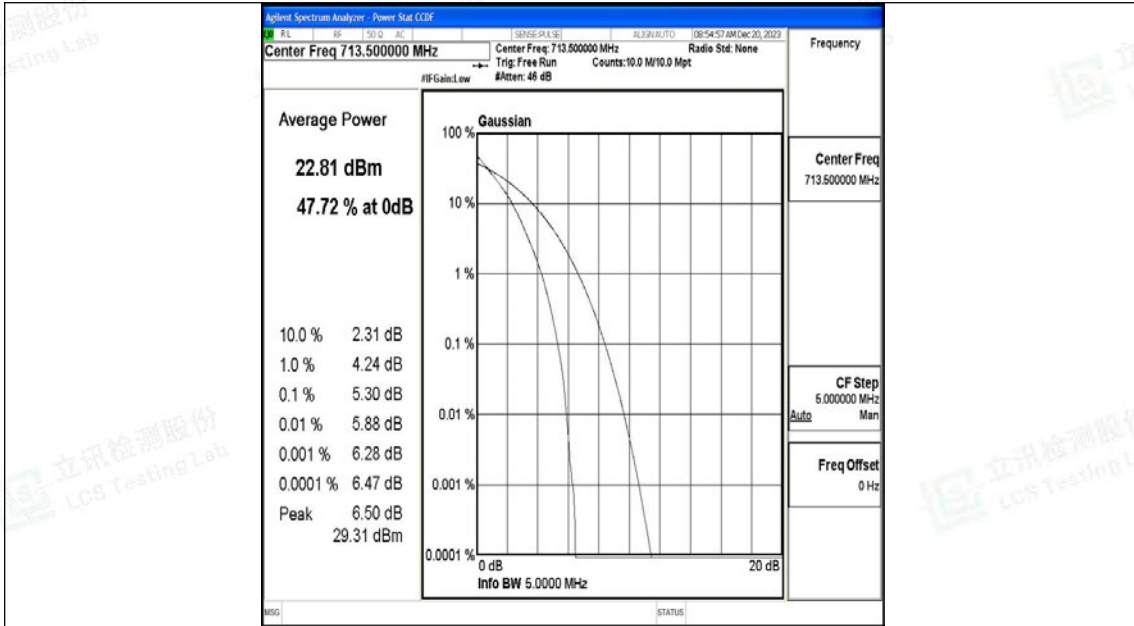


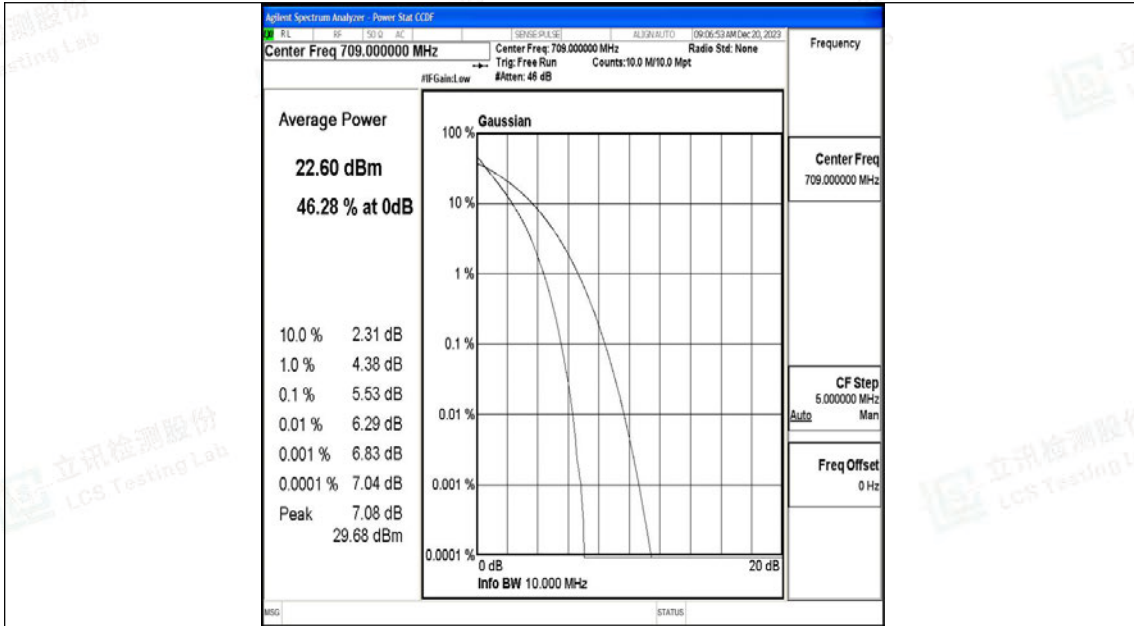
Band17-5MHz-QPSK-23790-25RB#0-PASS



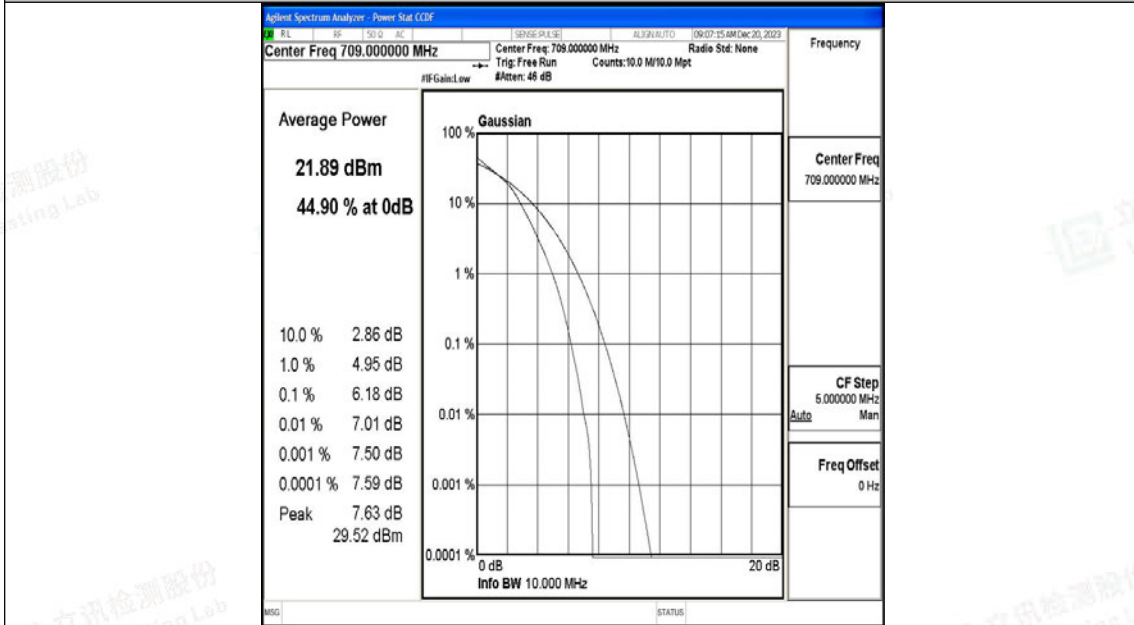
Band17-5MHz-16QAM-23790-25RB#0-PASS





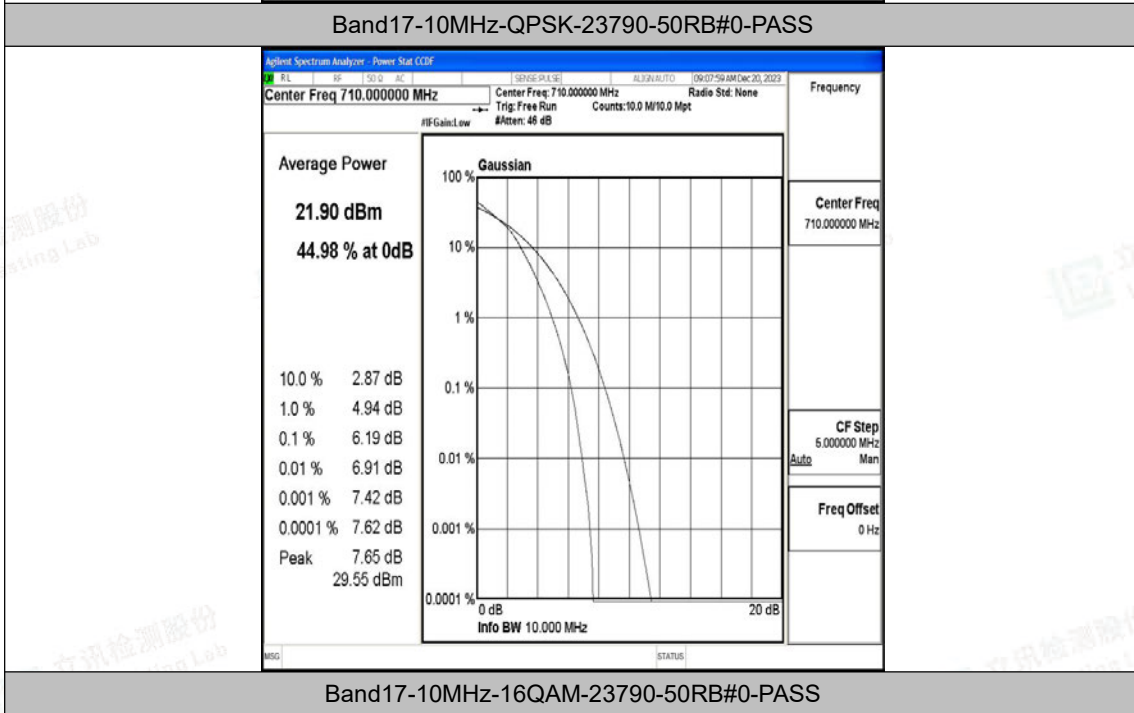
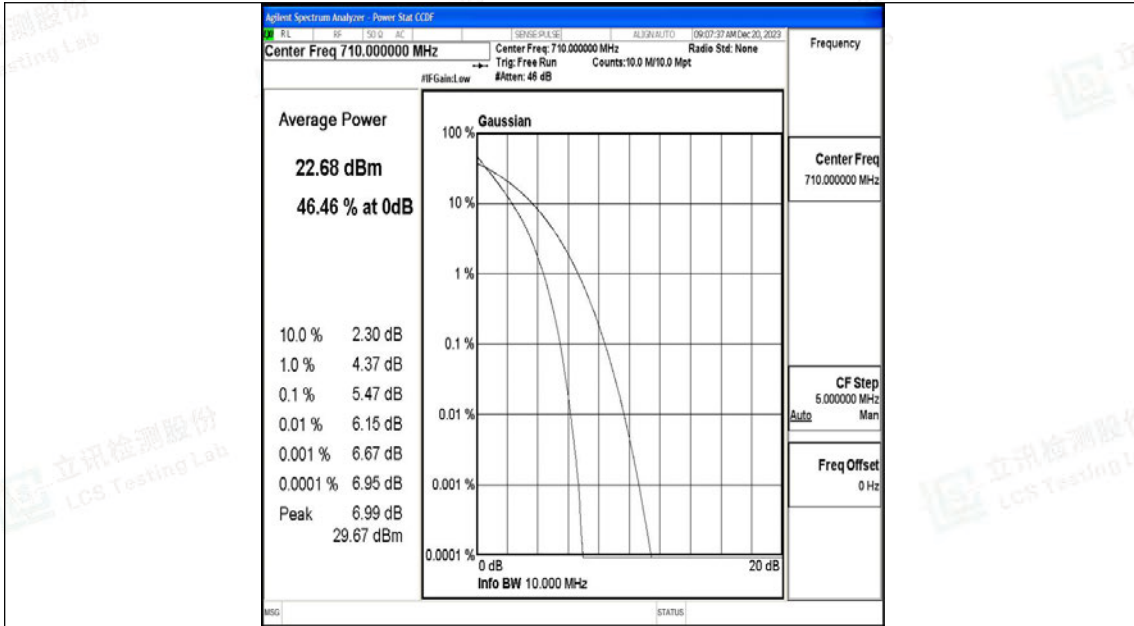


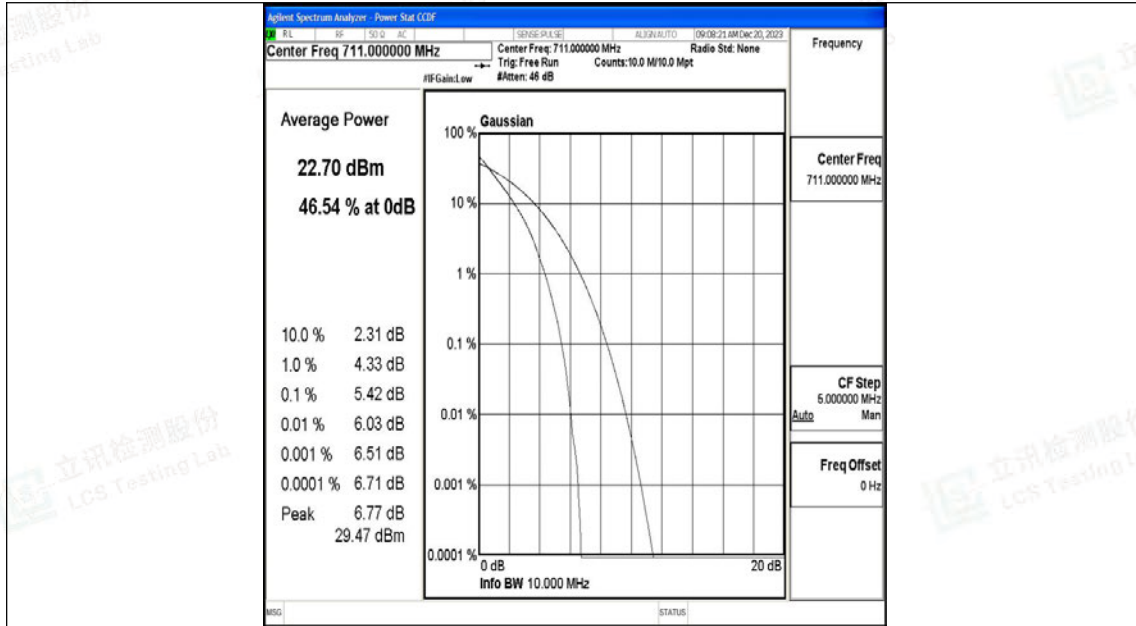
Band17-10MHz-QPSK-23780-50RB#0-PASS



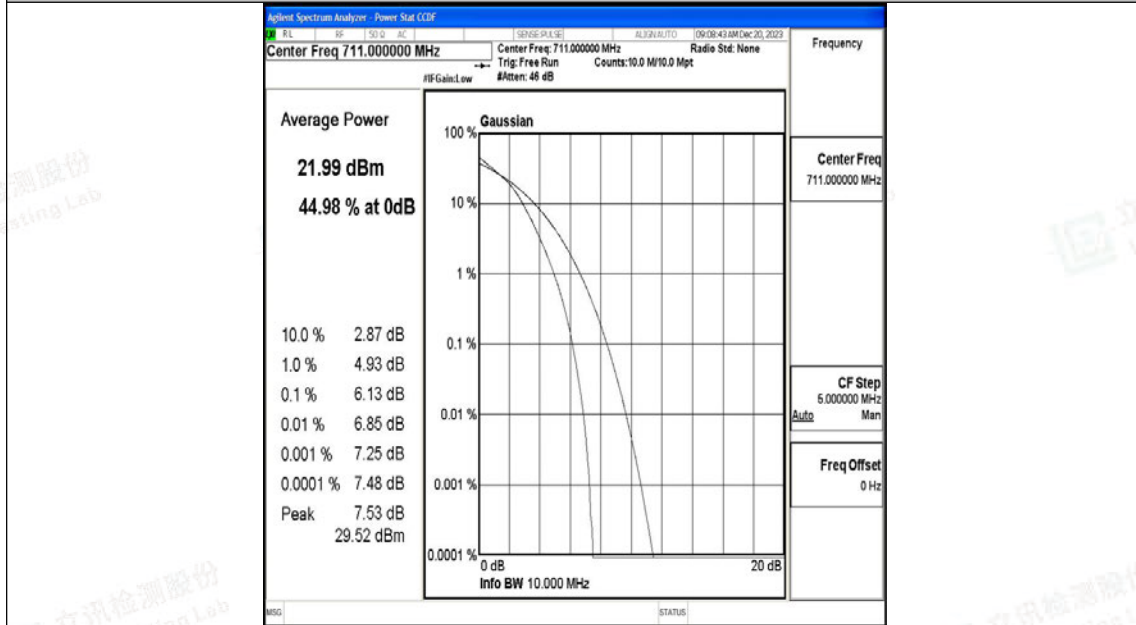
Band17-10MHz-16QAM-23780-50RB#0-PASS







Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS





F.3 26dB Bandwidth and Occupied Bandwidth

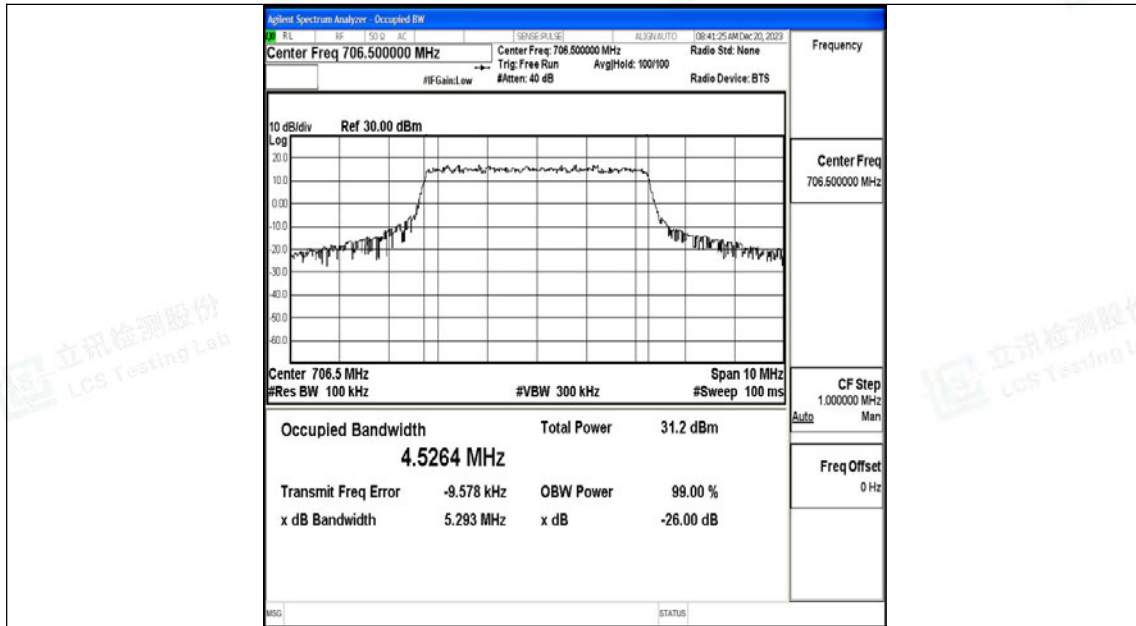
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5264	5.293	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5290	5.269	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5276	5.271	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5165	5.268	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5212	5.158	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5371	5.371	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9962	10.03	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9954	10.19	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0152	10.17	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0010	10.48	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9852	10.04	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9982	10.13	PASS

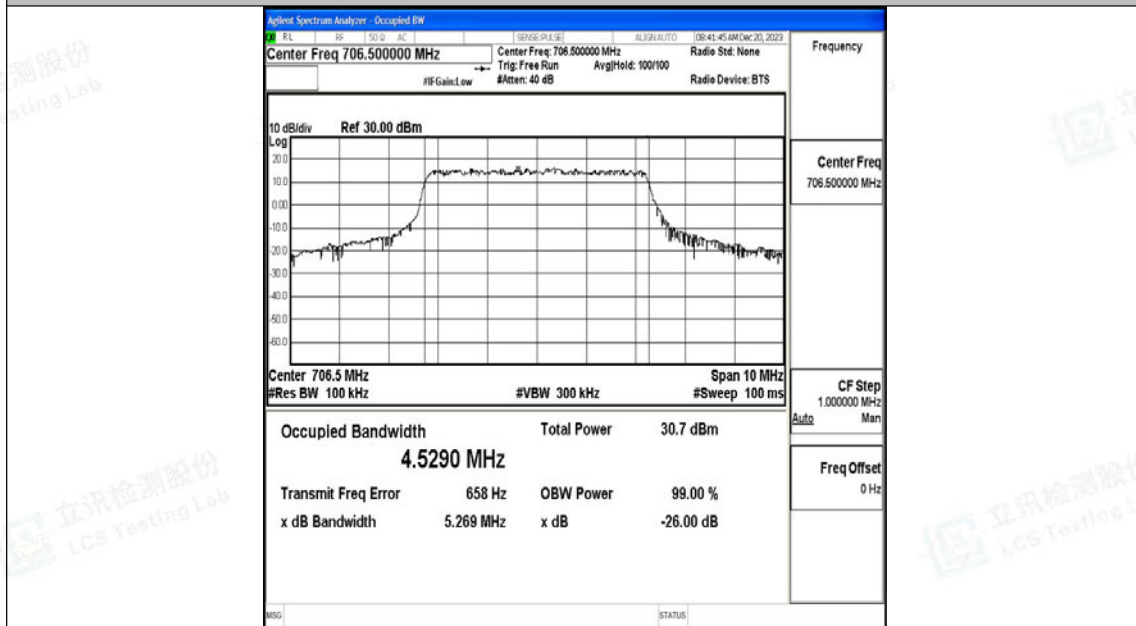




Test Graphs

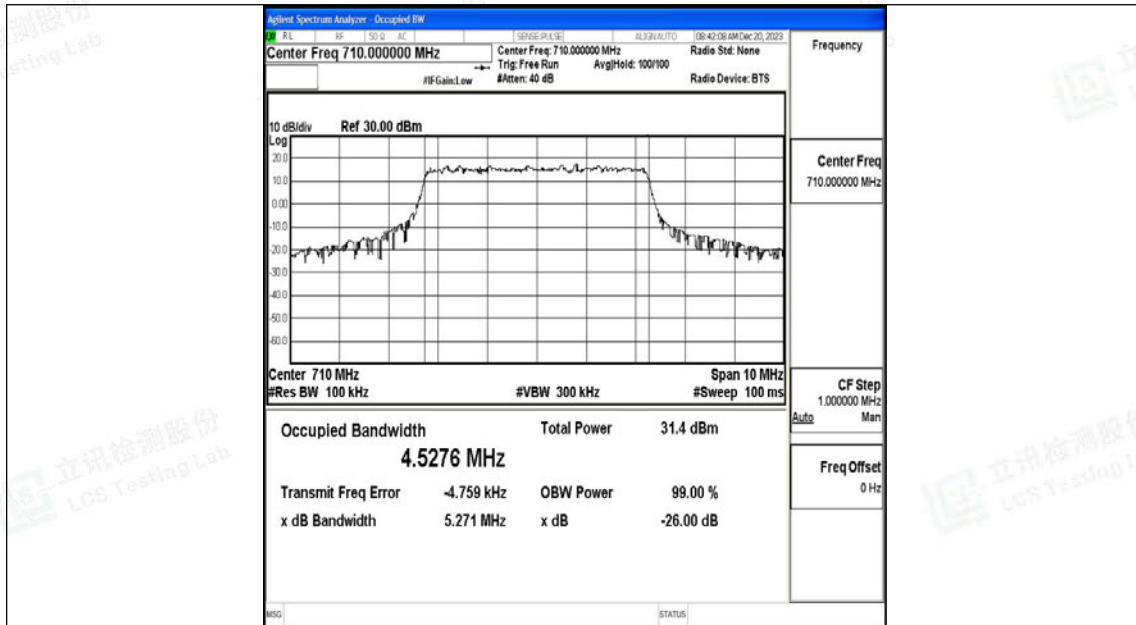


Band17-5MHz-QPSK-23755-25RB#0-PASS

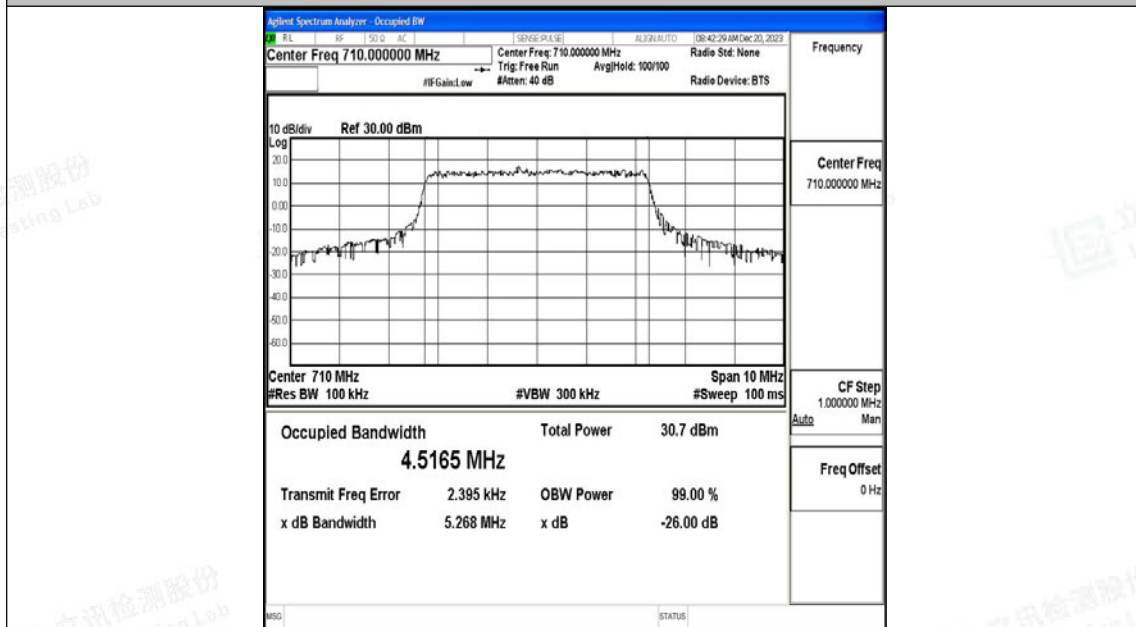


Band17-5MHz-16QAM-23755-25RB#0-PASS



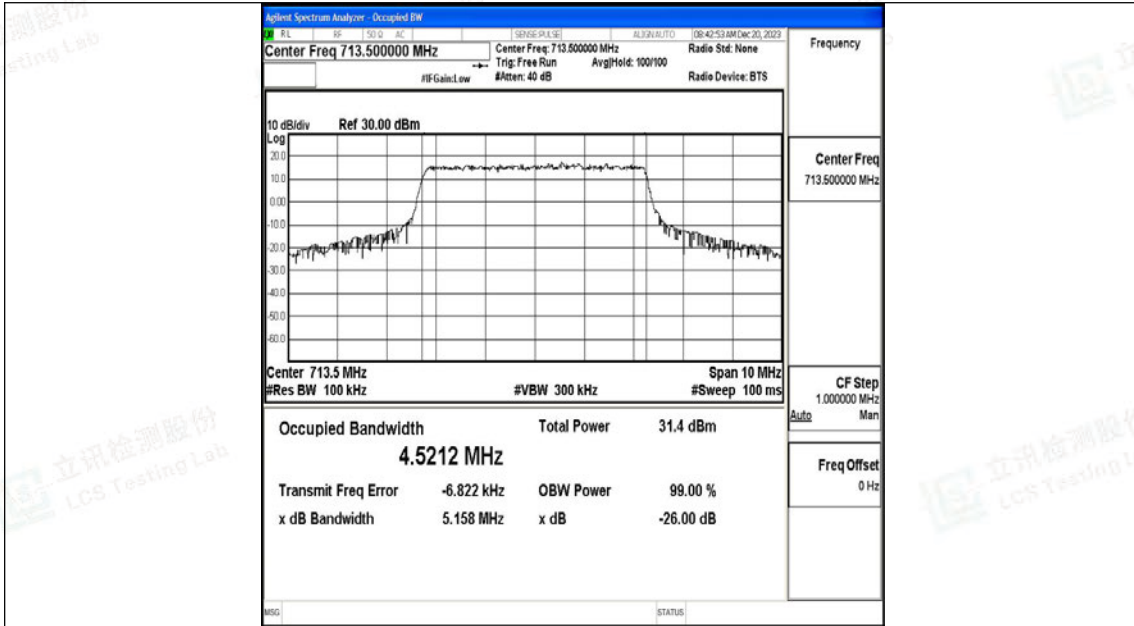


Band17-5MHz-QPSK-23790-25RB#0-PASS

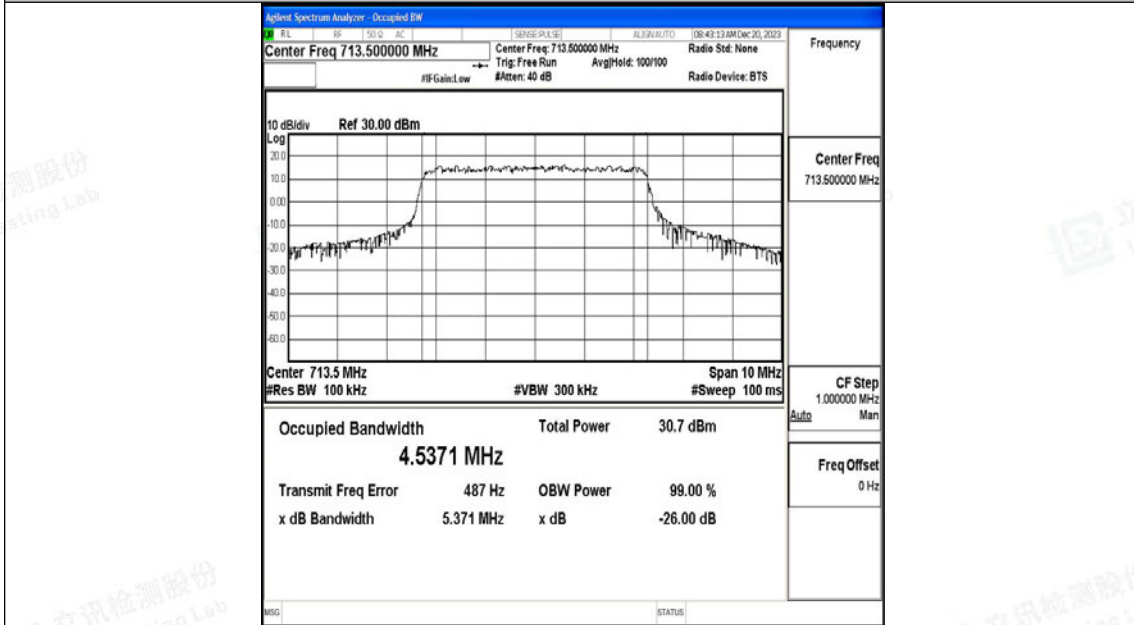


Band17-5MHz-16QAM-23790-25RB#0-PASS



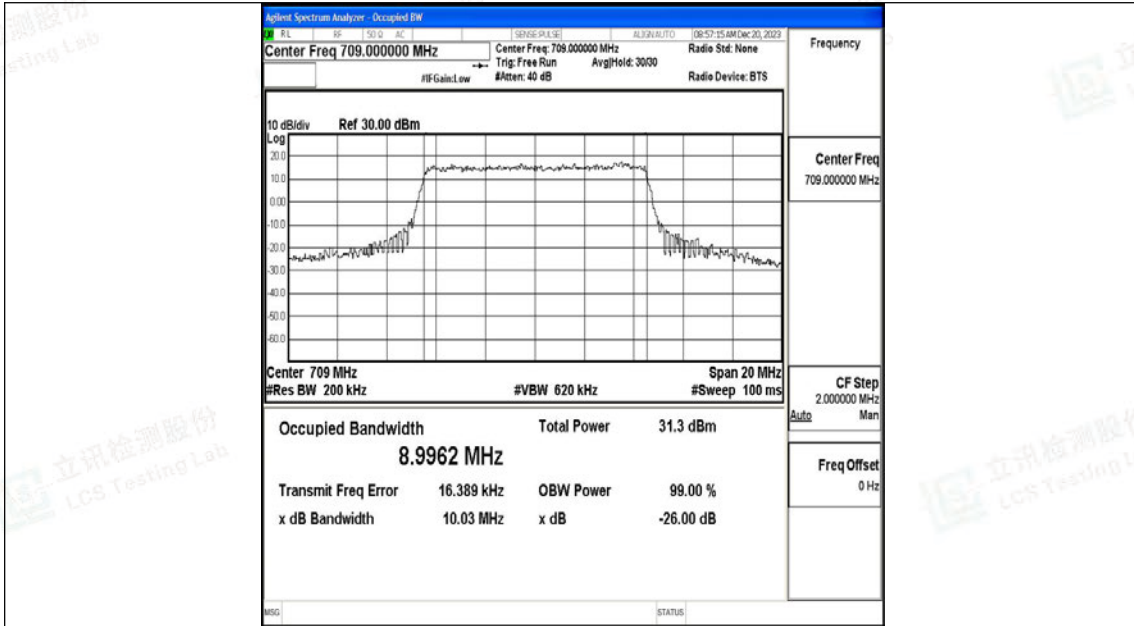


Band17-5MHz-QPSK-23825-25RB#0-PASS

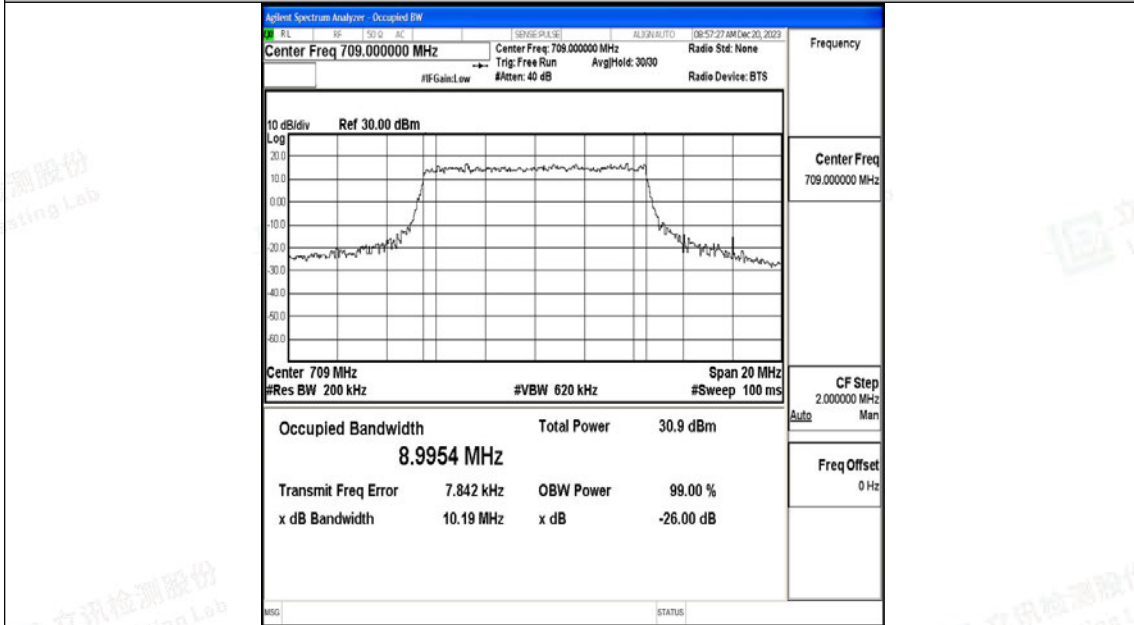


Band17-5MHz-16QAM-23825-25RB#0-PASS



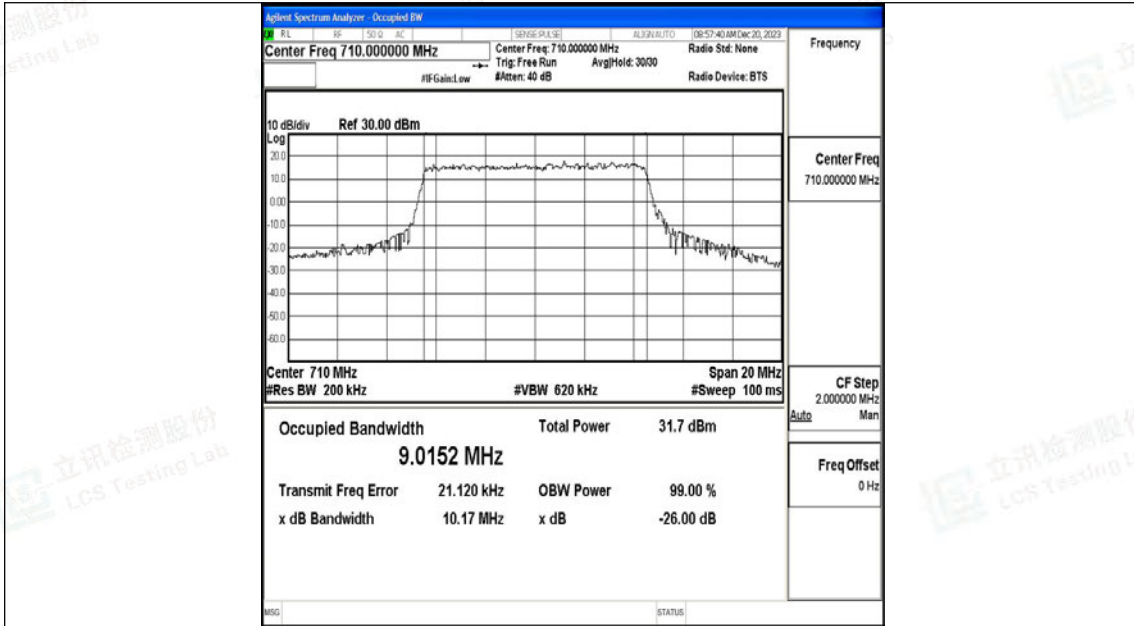


Band17-10MHz-QPSK-23780-50RB#0-PASS

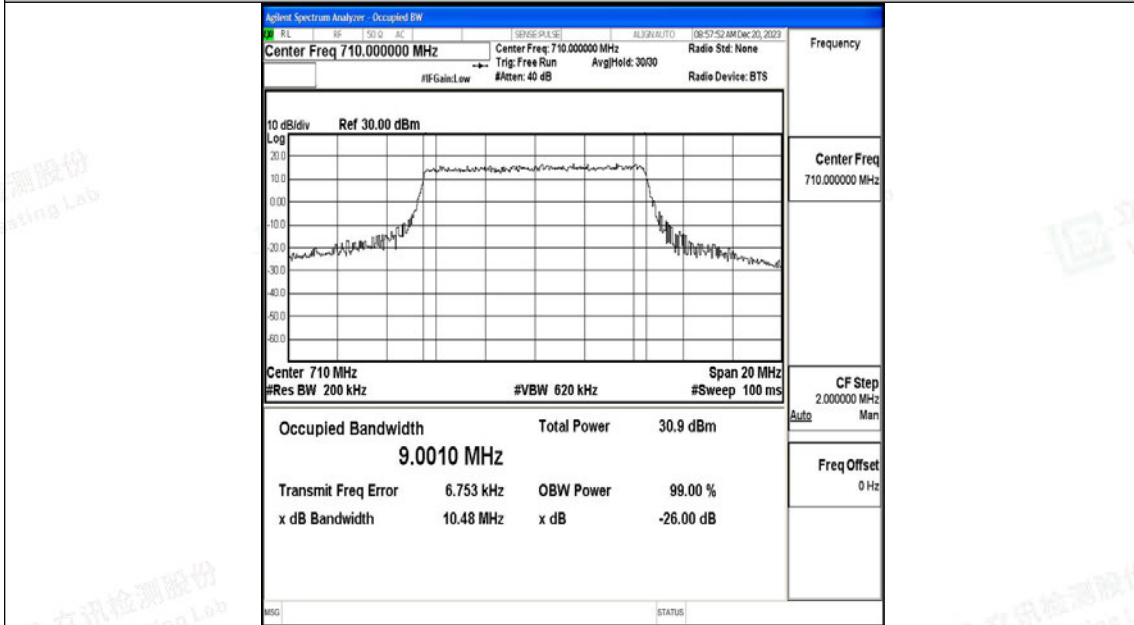


Band17-10MHz-16QAM-23780-50RB#0-PASS



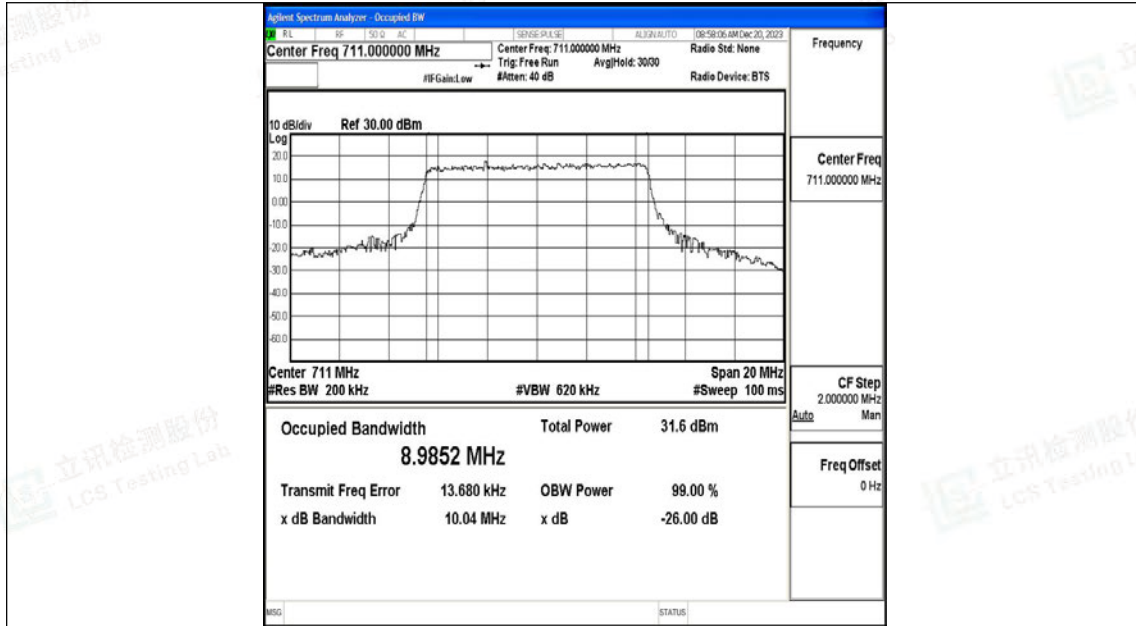


Band17-10MHz-QPSK-23790-50RB#0-PASS

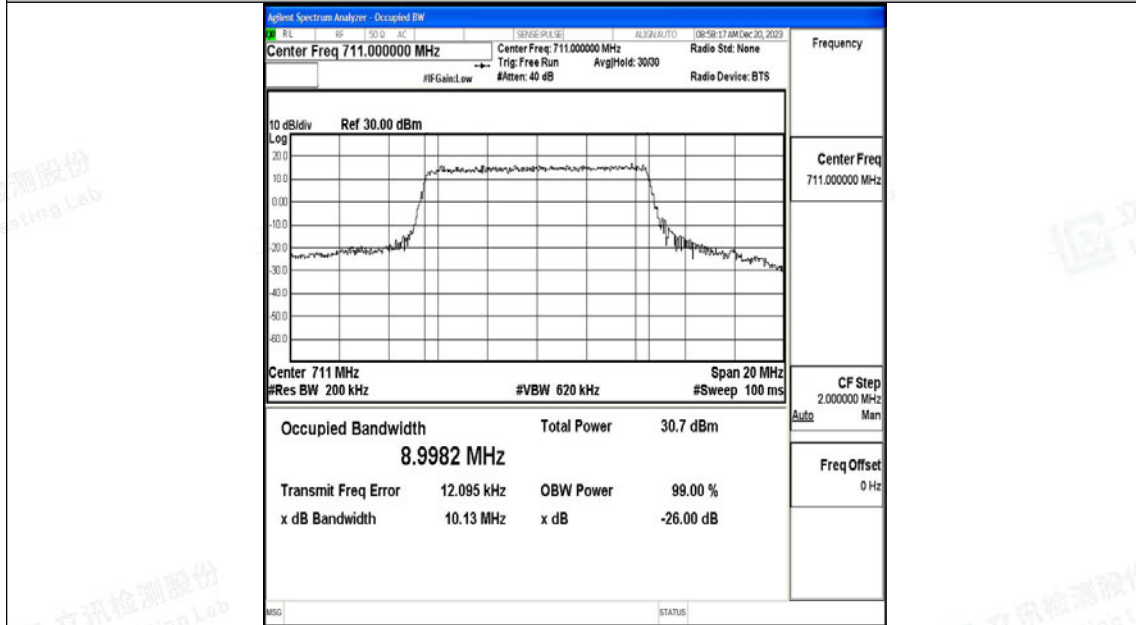


Band17-10MHz-16QAM-23790-50RB#0-PASS





Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23800-50RB#0-PASS



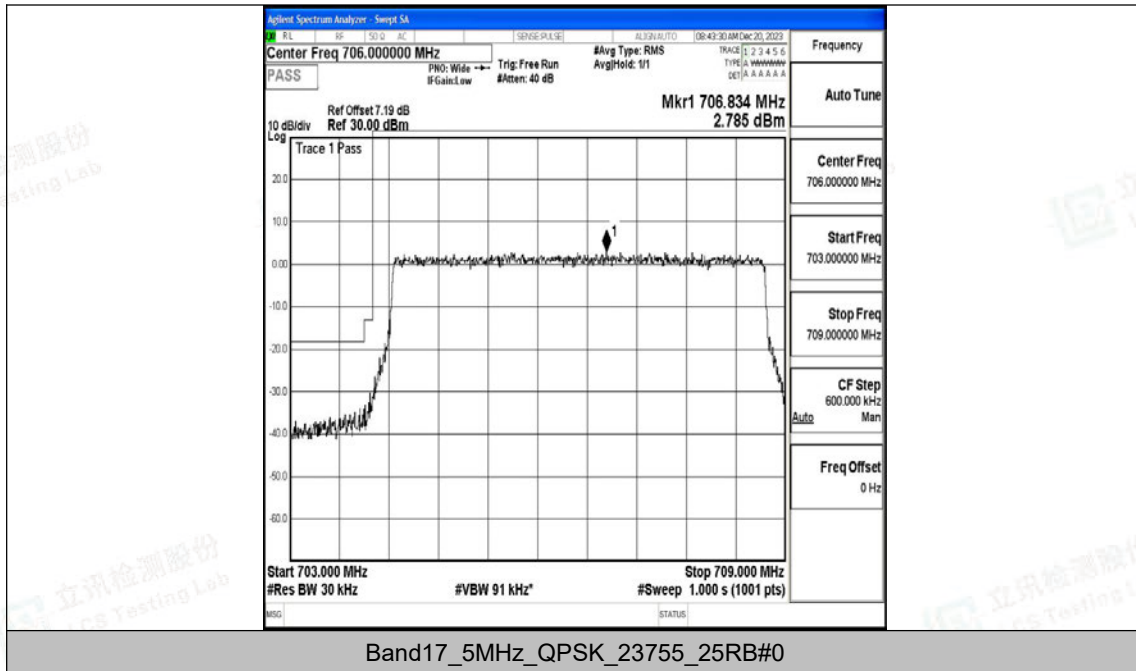


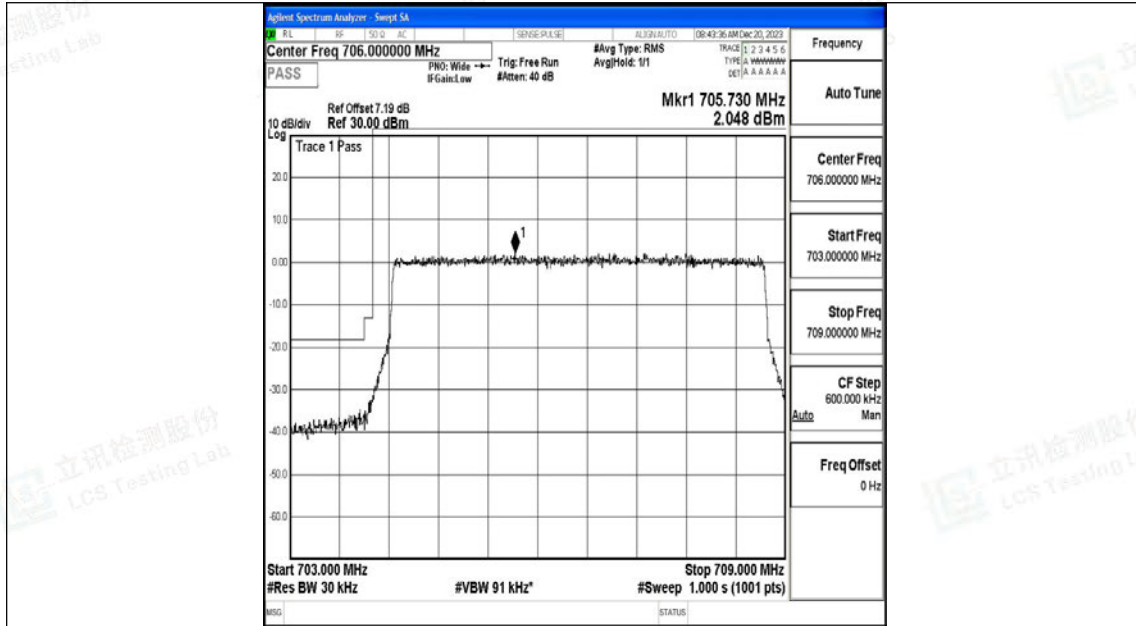
F.4 Band Edge

Test Result

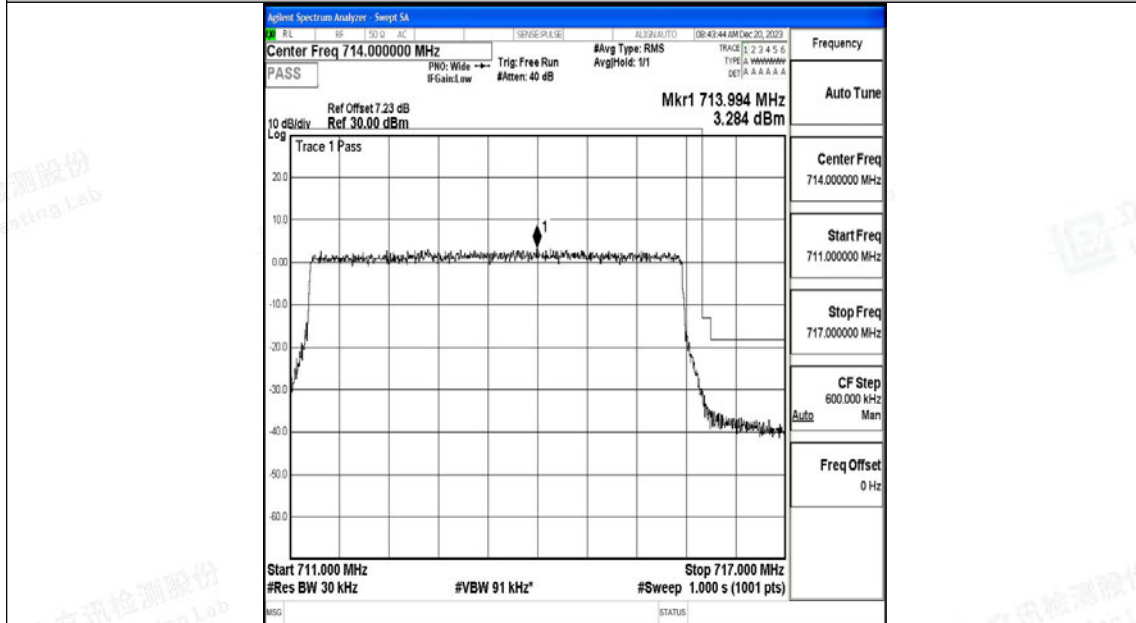
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.85	-33.91	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.85	-34.75	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.11	-35.11	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.11	-32.73	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.58	-37.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.87	-38.58	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.19	-38.68	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.25	-38.92	PASS

Test Graphs



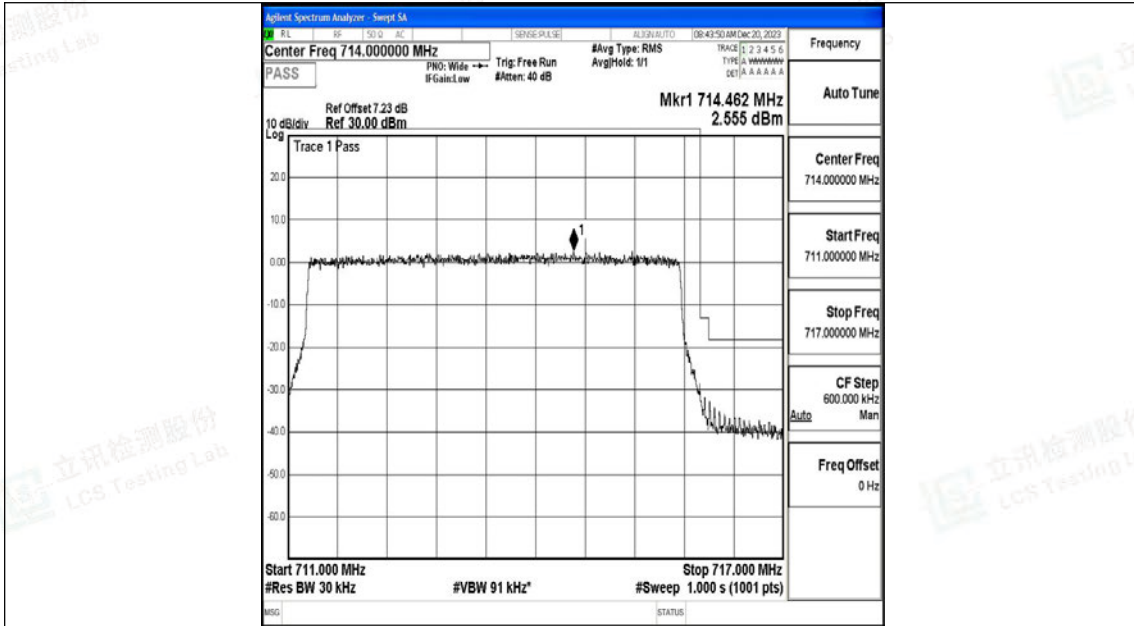


Band17_5MHz_16QAM_23755_25RB#0

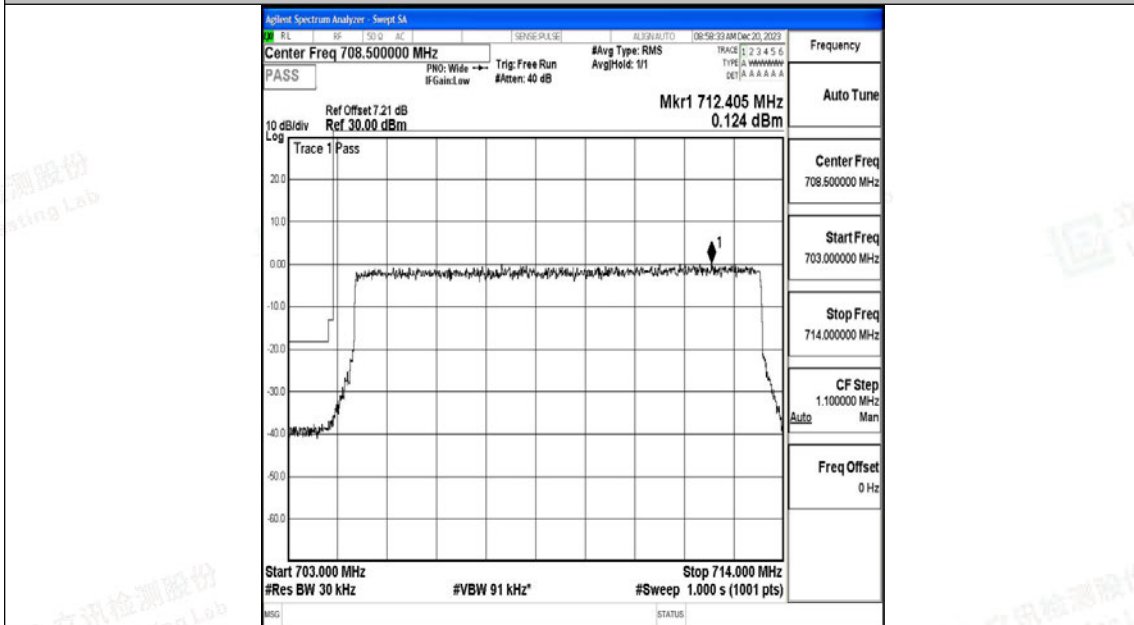


Band17_5MHz_QPSK_23825_25RB#0



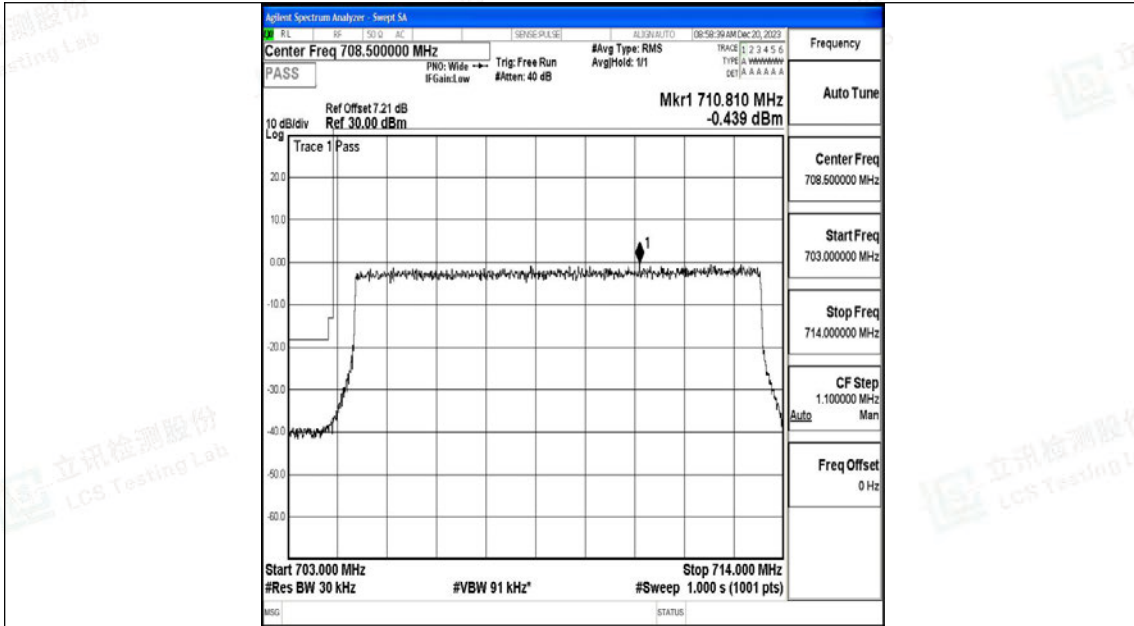


Band17_5MHz_16QAM_23825_25RB#0

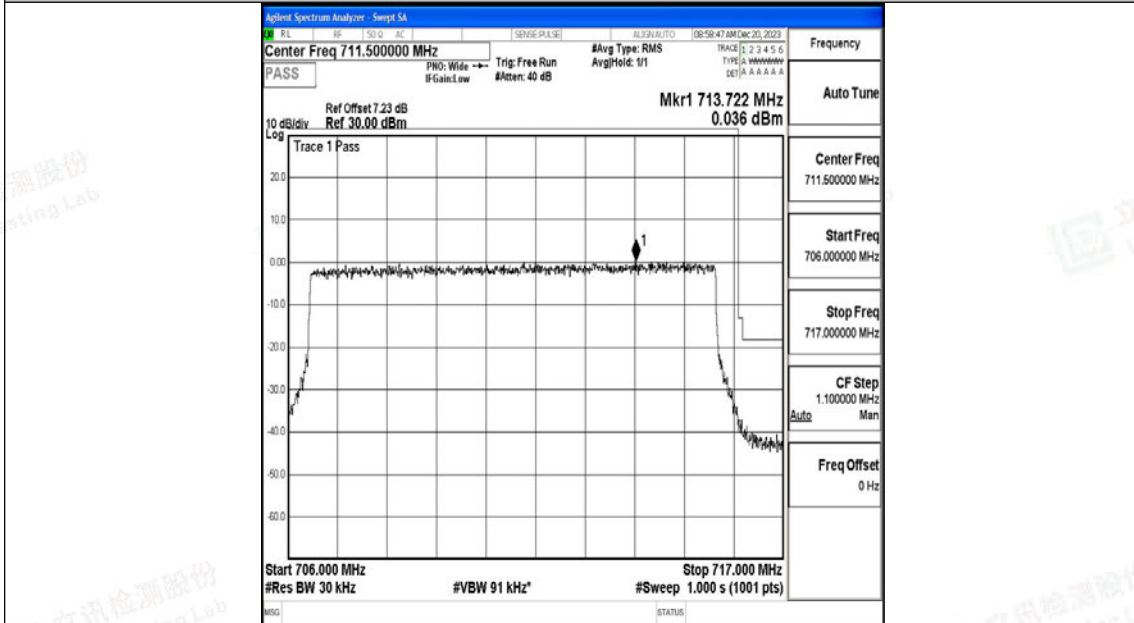


Band17_10MHz_QPSK_23780_50RB#0



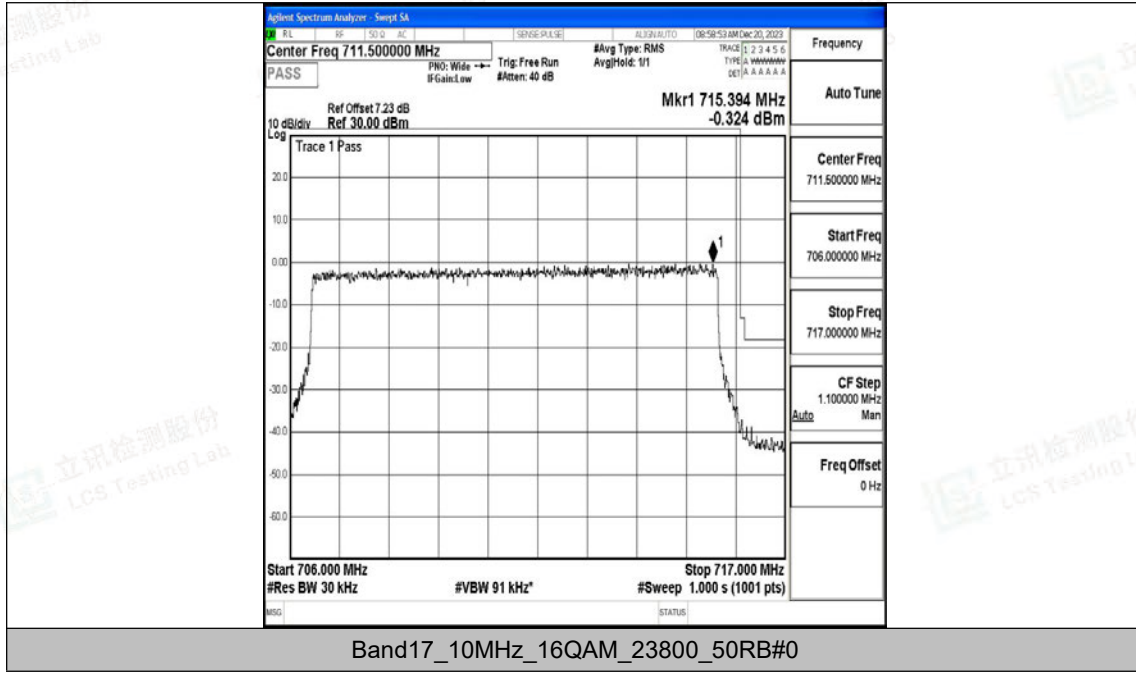


Band17_10MHz_16QAM_23780_50RB#0



Band17_10MHz_QPSK_23800_50RB#0







F.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-55.13	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-51.87	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-60.31	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-44.66	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-44.16	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-57.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-51.56	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-58.14	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-46.34	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-43.89	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-57.65	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-51.89	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-59.11	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-44.41	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-44.30	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-57.47	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-52.91	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-60.48	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-44.31	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-44.12	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-58.47	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-51.51	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-59.72	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-44.44	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-44.26	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-57.03	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-50.86	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-58.91	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-44.01	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-44.11	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-53.87	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-52.33	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-62.03	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-44.58	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-44.42	PASS



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Scan code to check authenticity

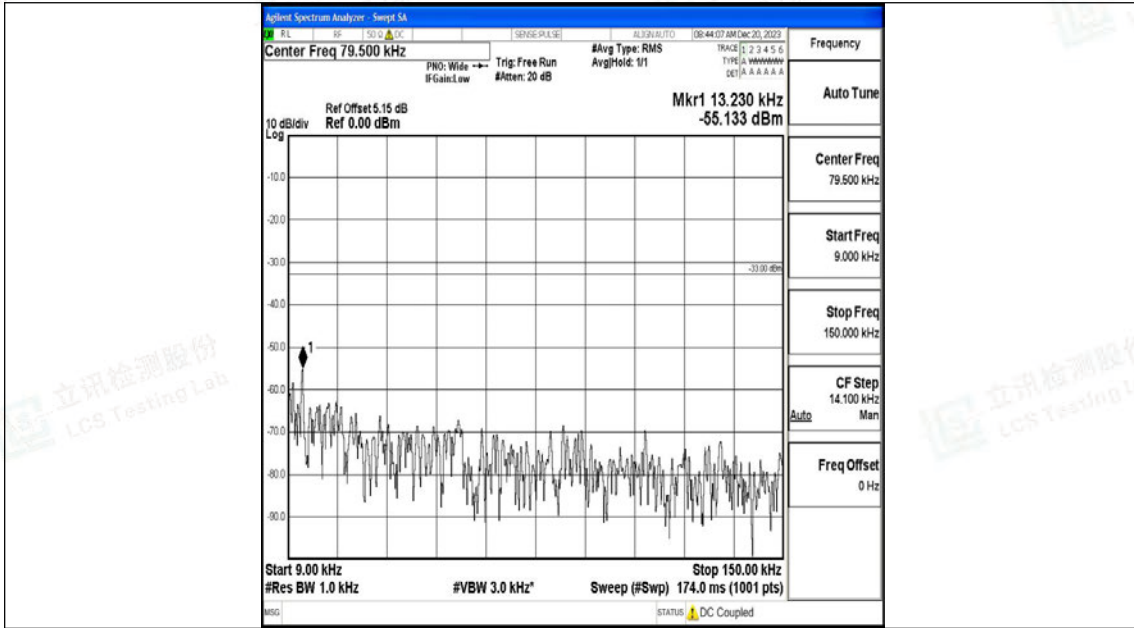


Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-54.78	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-52.22	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-62.03	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-43.86	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-43.73	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-59.69	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-51.33	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-62.26	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-45.75	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-43.72	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-56.48	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-50.00	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-62.07	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-43.76	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-44.07	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-54.14	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-51.15	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-61.99	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-43.70	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-44.33	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-55.81	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-53.13	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-61.85	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-45.79	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-43.68	PASS

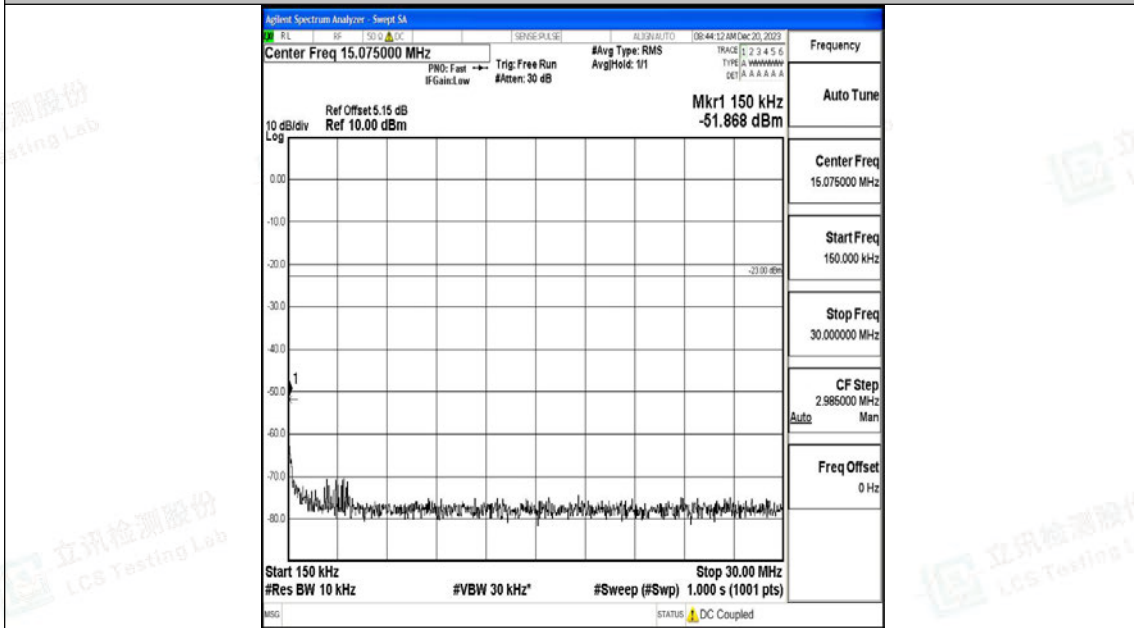




Test Graphs

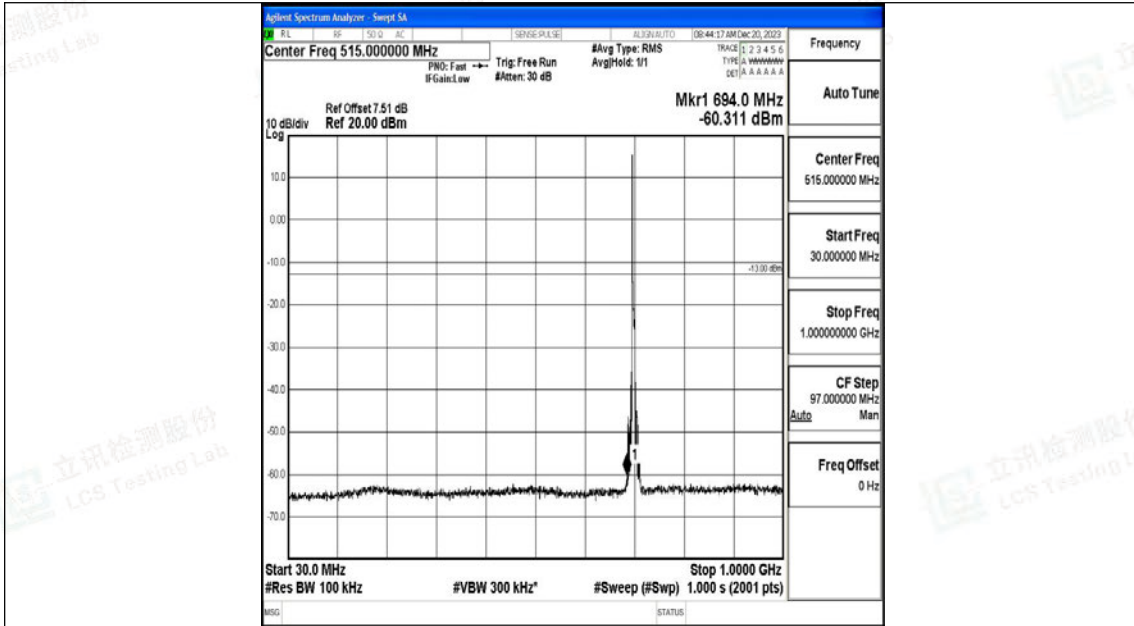


Band17_5MHz_QPSK_23755_1RB#0_0.009~0.15_0.009~0.15

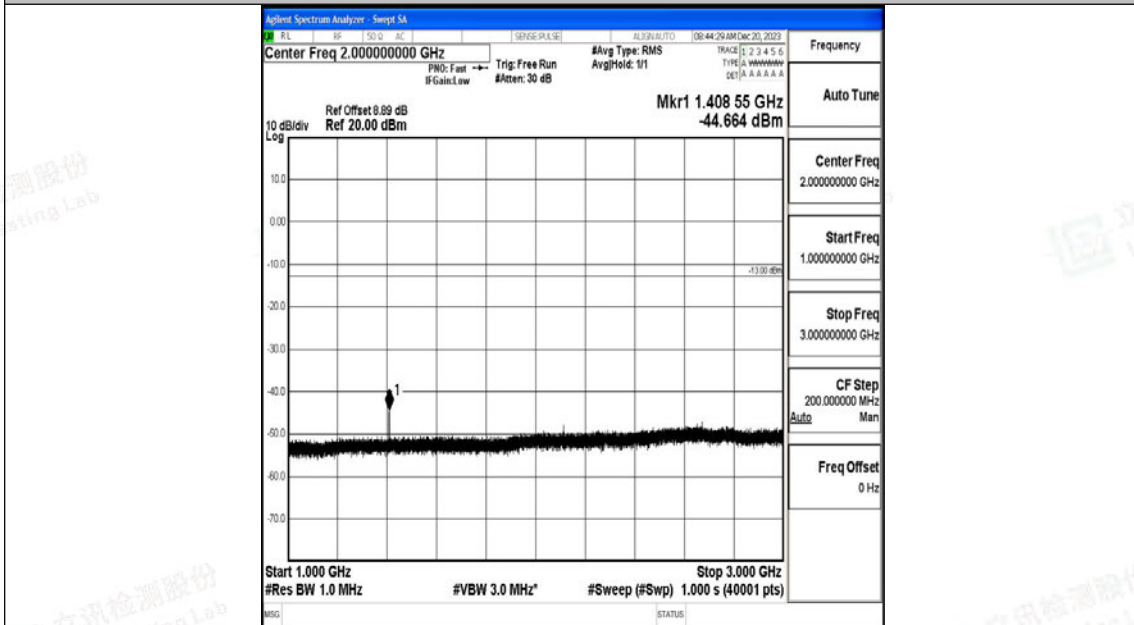


Band17_5MHz_QPSK_23755_1RB#0_0.15~30_0.15~30



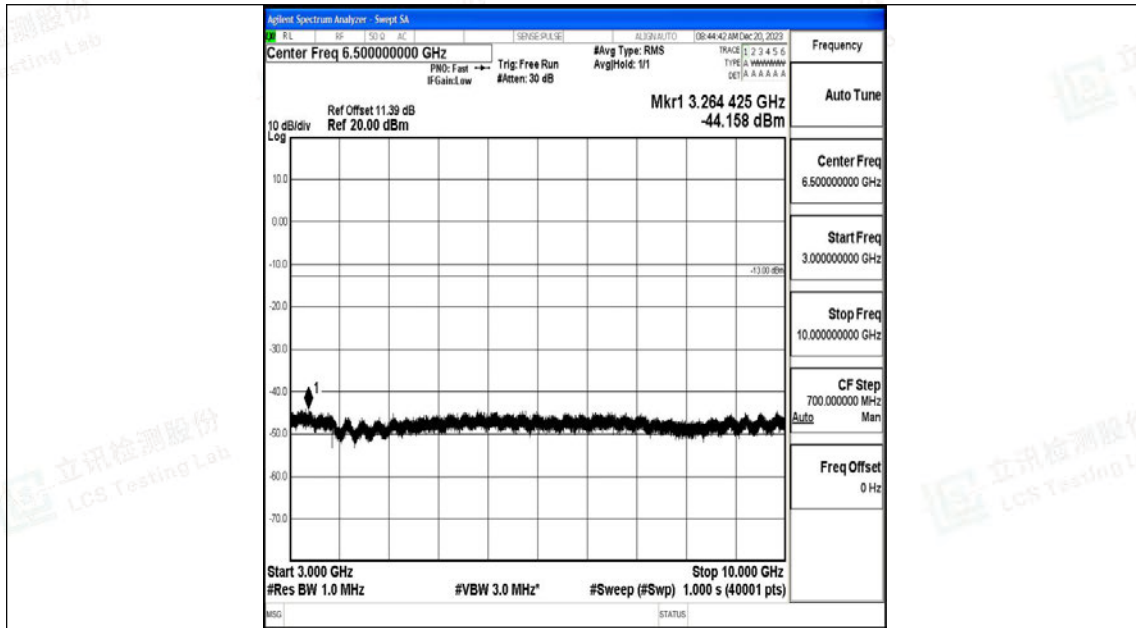


Band17_5MHz_QPSK_23755_1RB#0_30~1000_30~1000

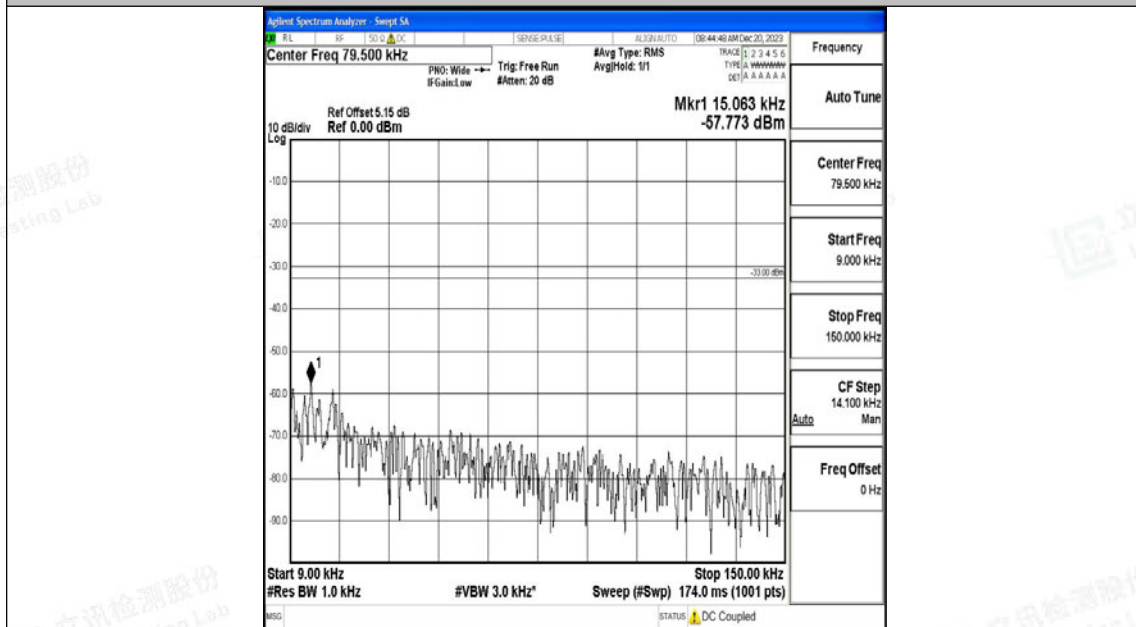


Band17_5MHz_QPSK_23755_1RB#0_1000~3000_1000~3000



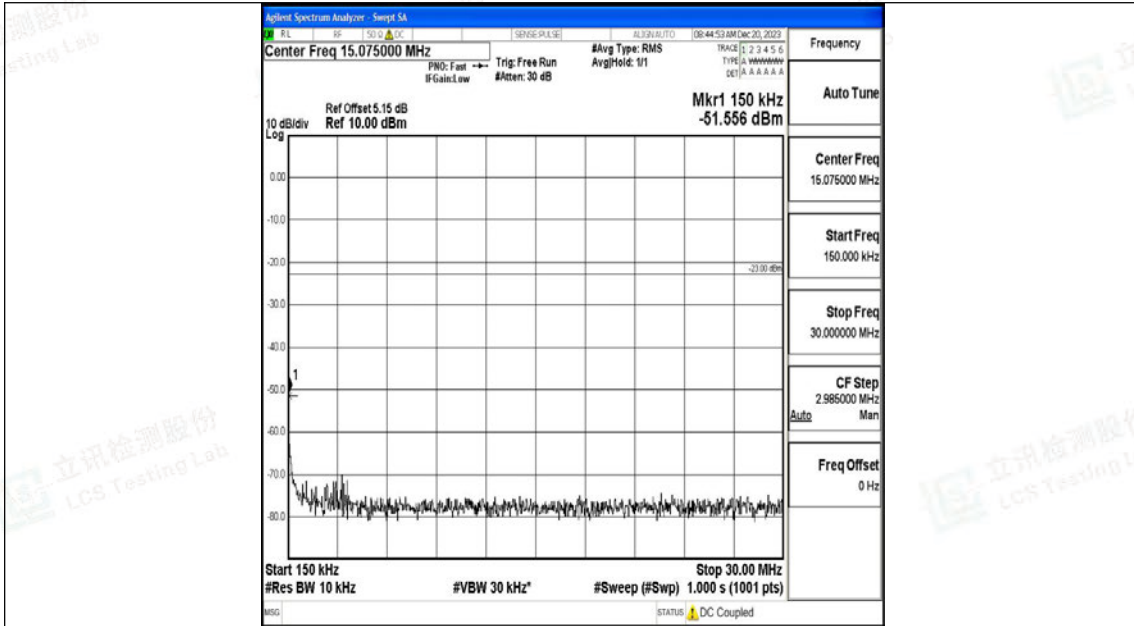


Band17_5MHz_QPSK_23755_1RB#0_3000~10000_3000~10000

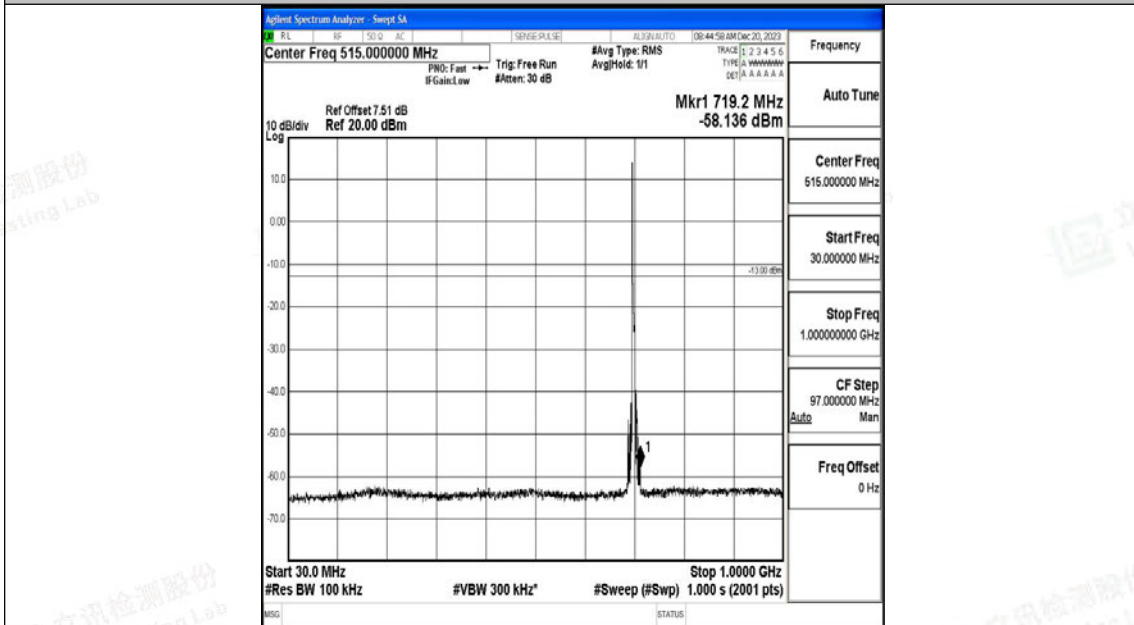


Band17_5MHz_16QAM_23755_1RB#0_0.009~0.15_0.009~0.15



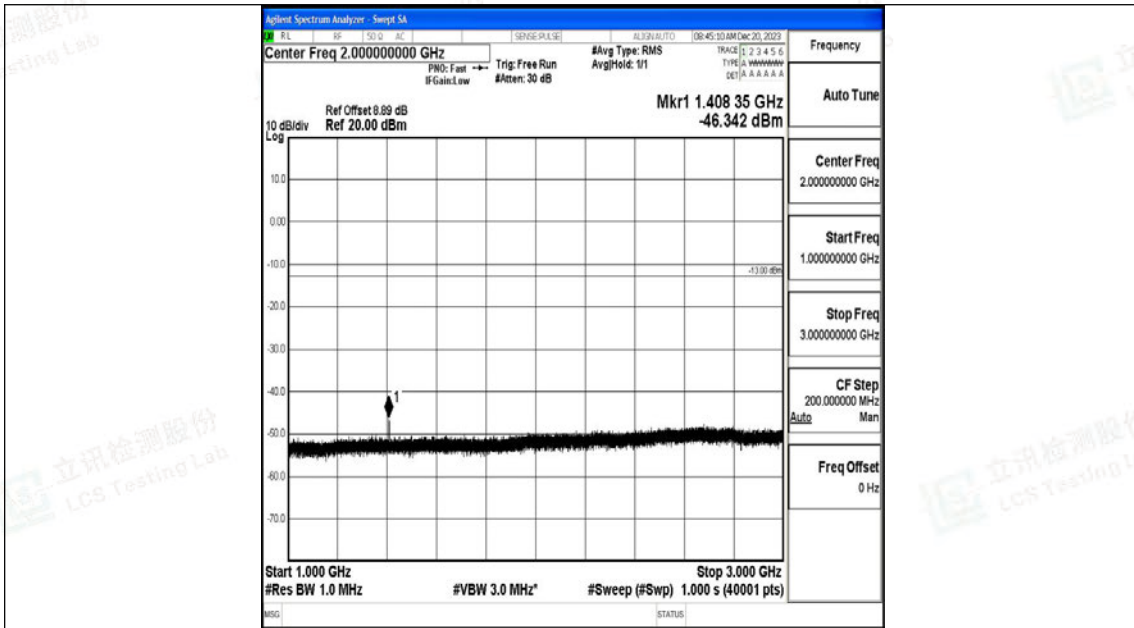


Band17_5MHz_16QAM_23755_1RB#0_0.15~30_0.15~30

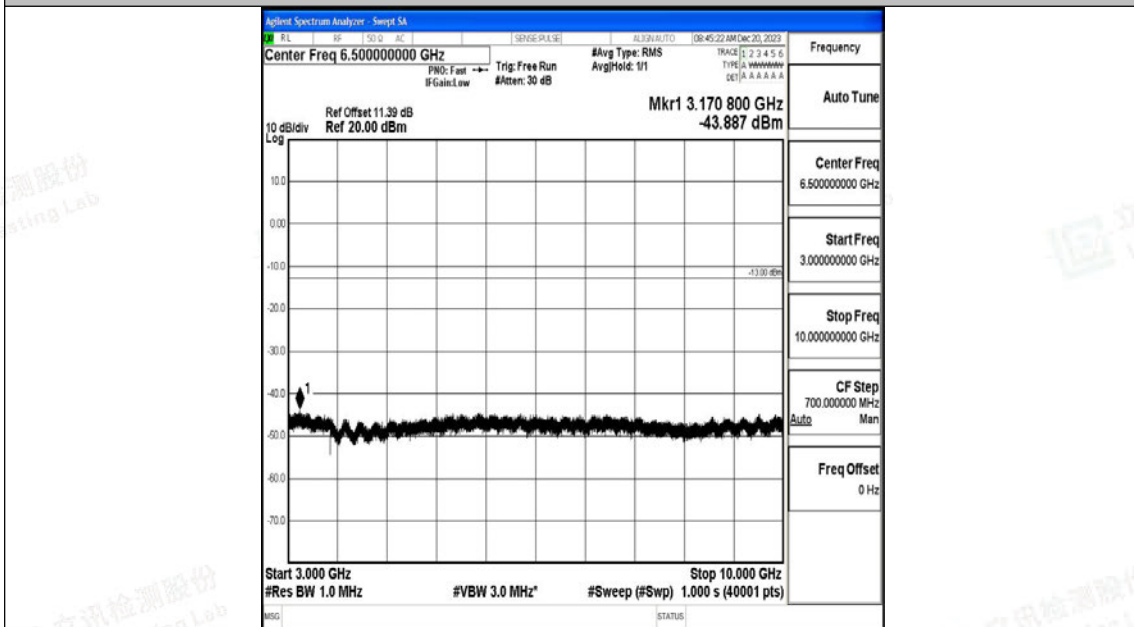


Band17_5MHz_16QAM_23755_1RB#0_30~1000_30~1000



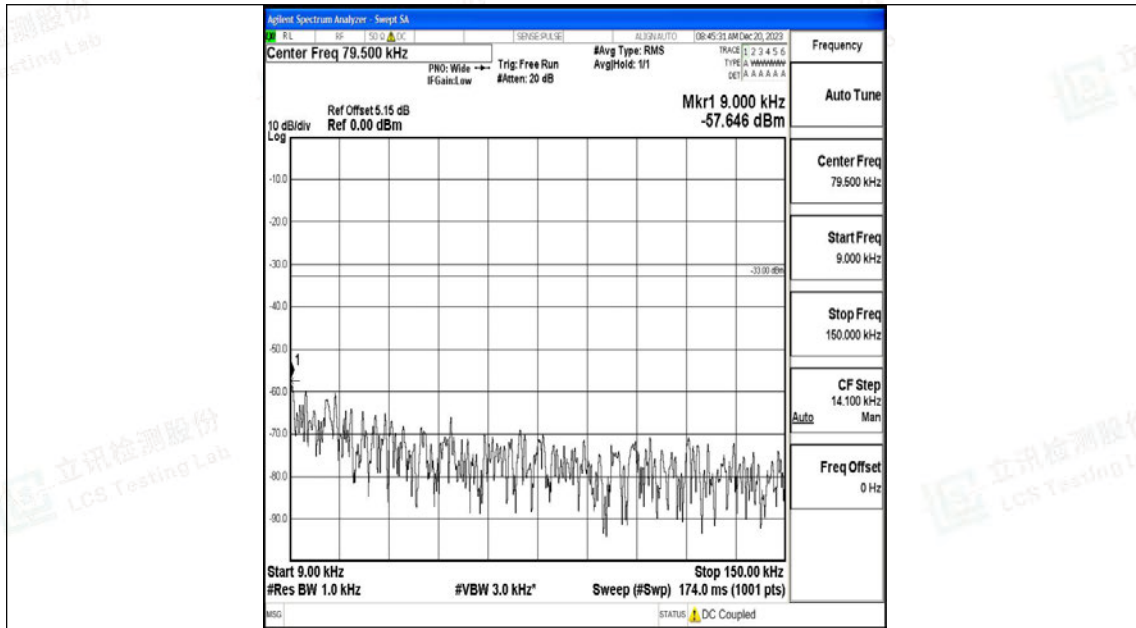


Band17_5MHz_16QAM_23755_1RB#0_1000~3000_1000~3000

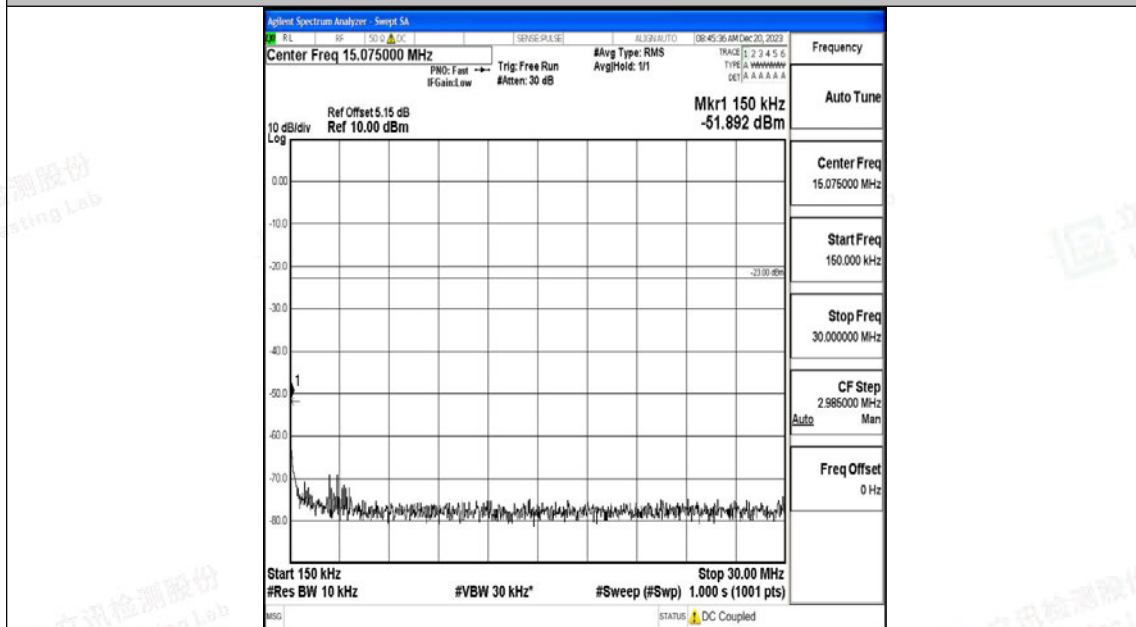


Band17_5MHz_16QAM_23755_1RB#0_3000~10000_3000~10000



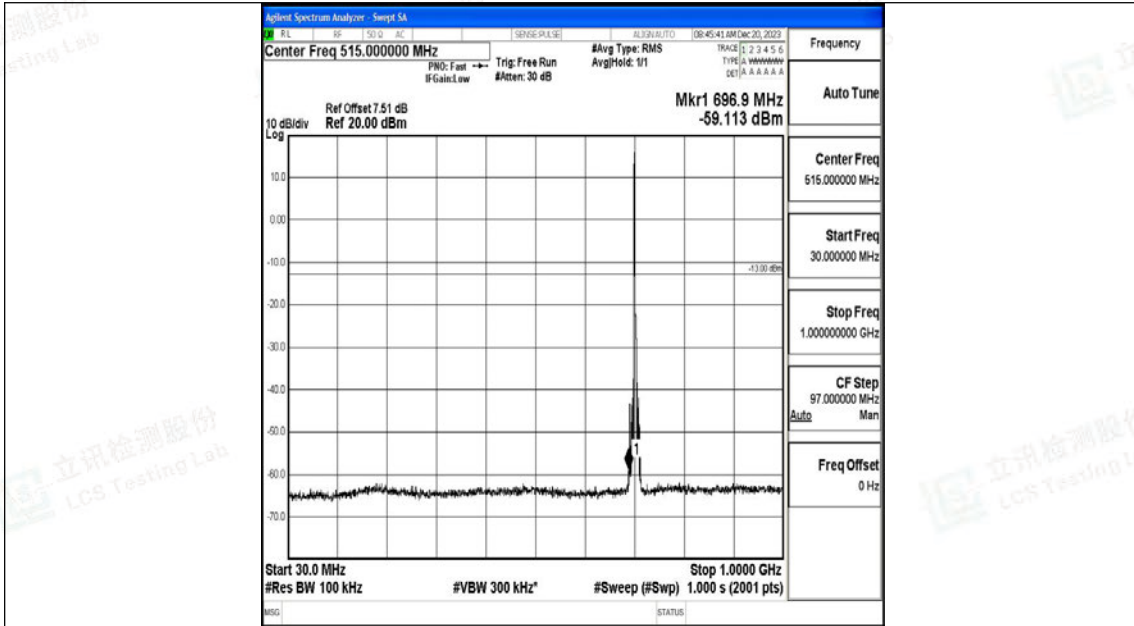


Band17_5MHz_QPSK_23790_1RB#0_0.009~0.15_0.009~0.15

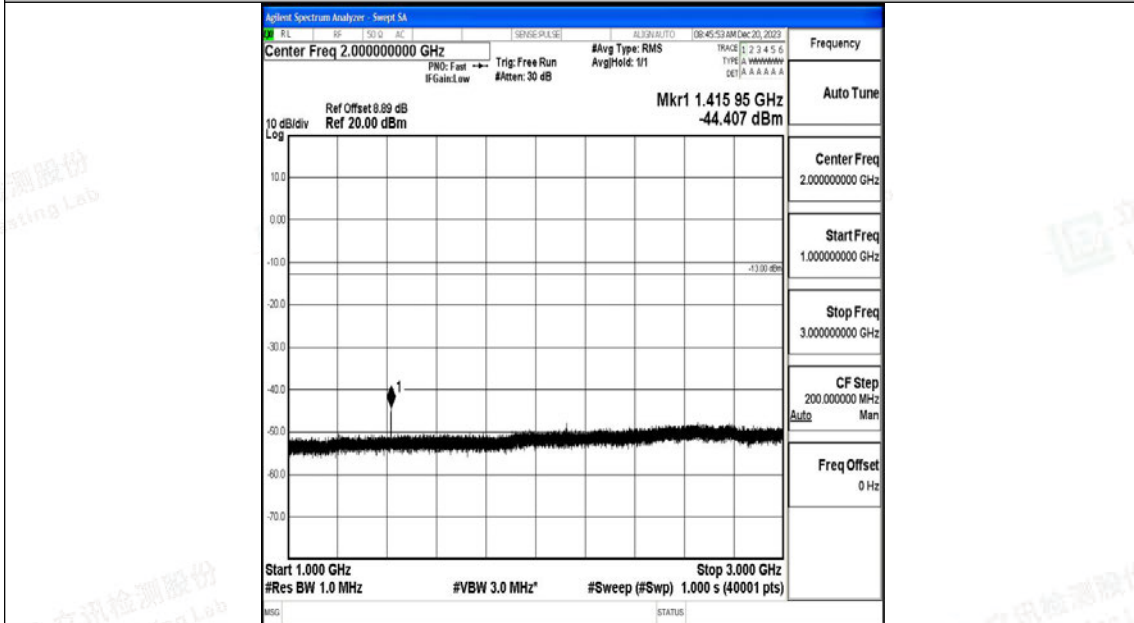


Band17_5MHz_QPSK_23790_1RB#0_0.15~30_0.15~30



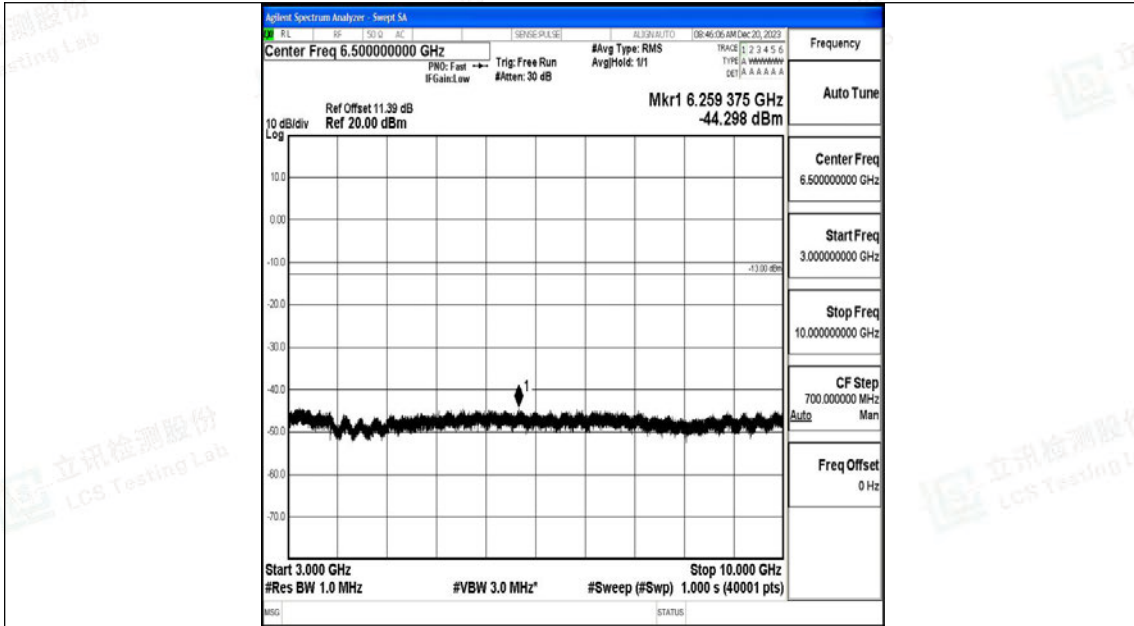


Band17_5MHz_QPSK_23790_1RB#0_30~1000_30~1000

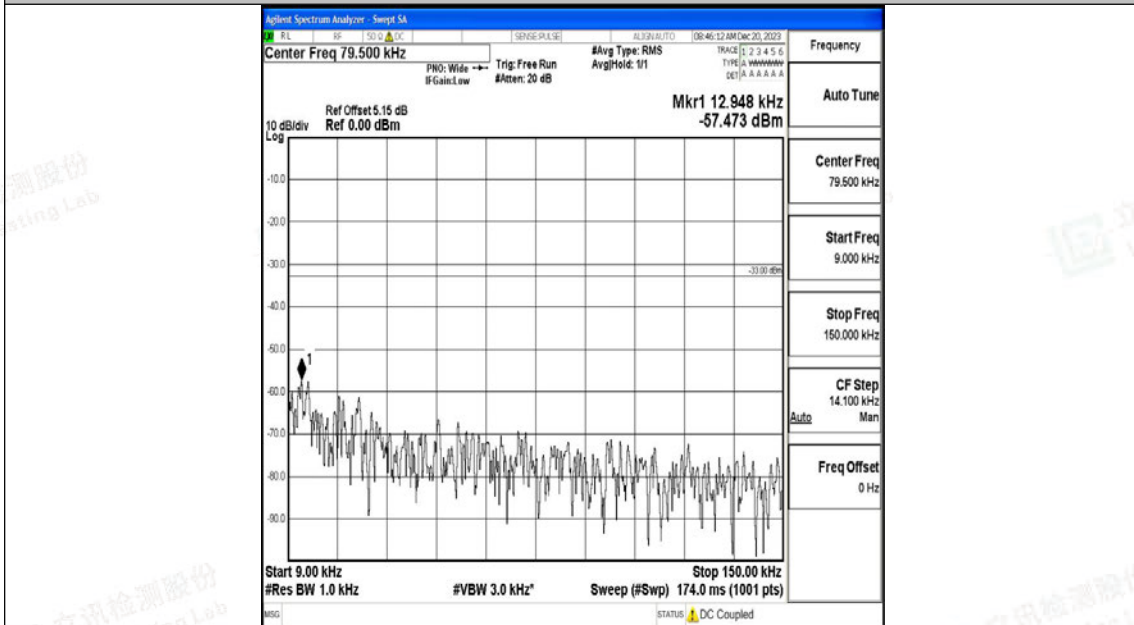


Band17_5MHz_QPSK_23790_1RB#0_1000~3000_1000~3000



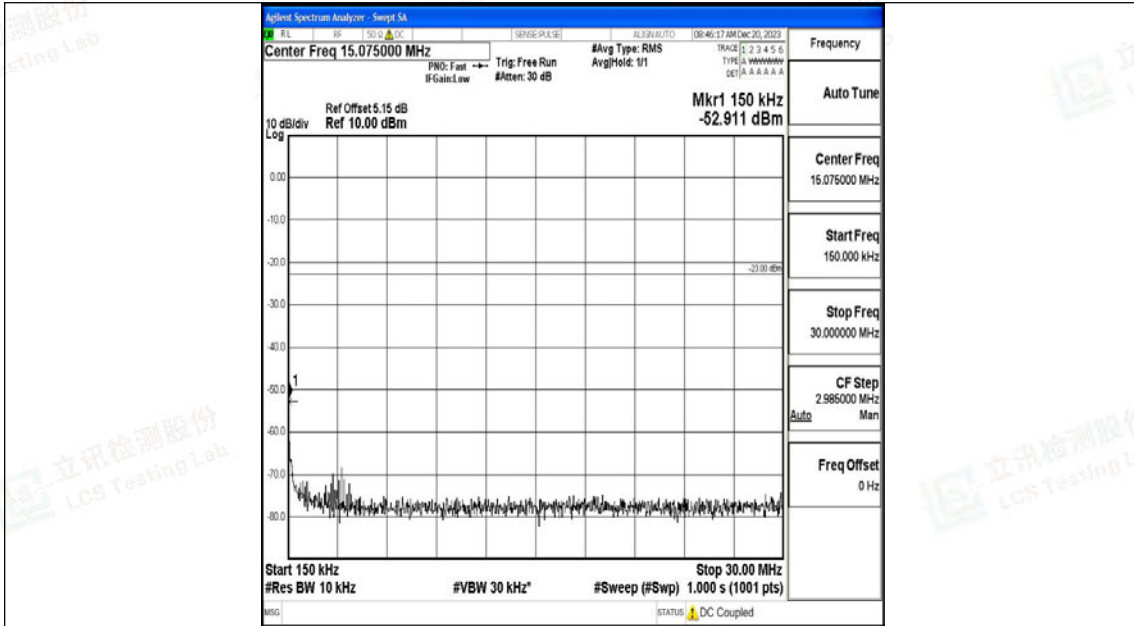


Band17_5MHz_QPSK_23790_1RB#0_3000~10000_3000~10000

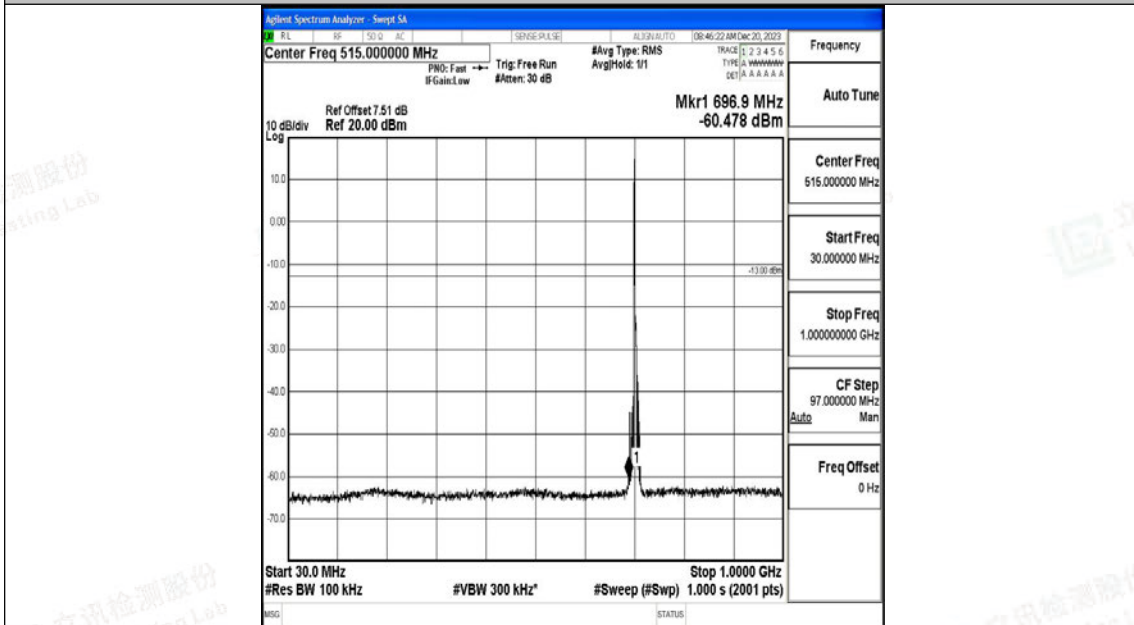


Band17_5MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15



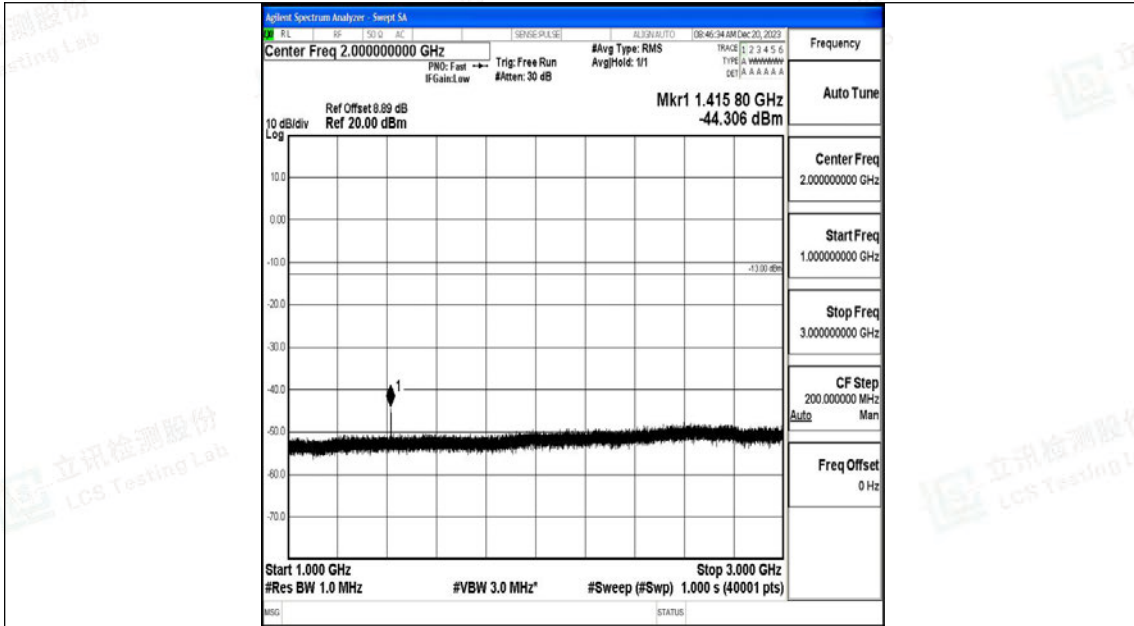


Band17_5MHz_16QAM_23790_1RB#0_0.15~30_0.15~30

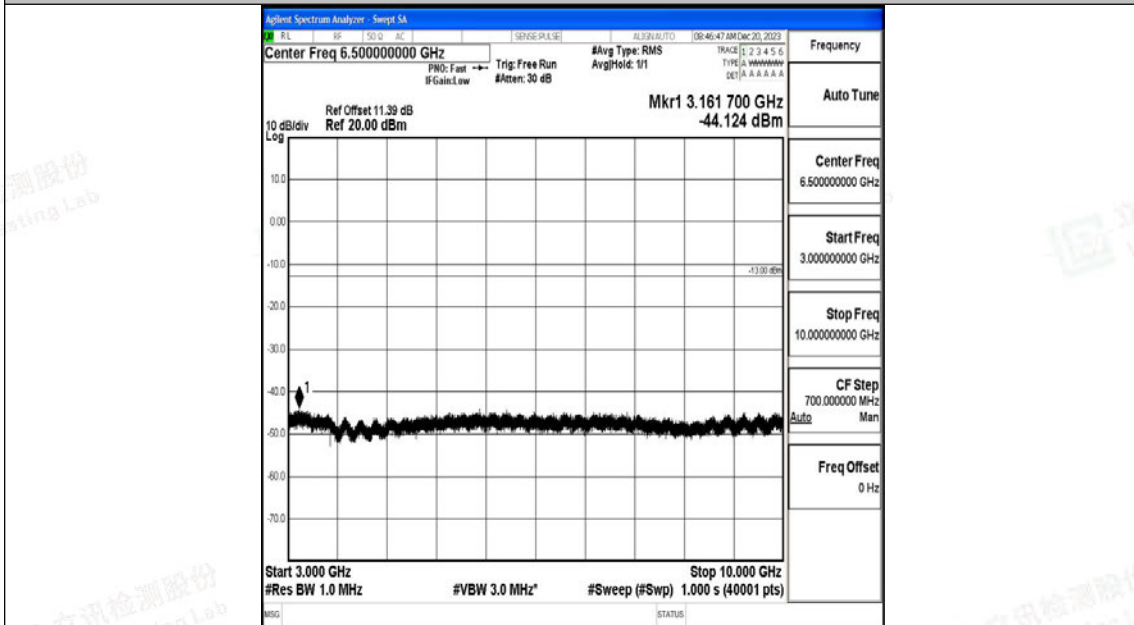


Band17_5MHz_16QAM_23790_1RB#0_30~1000_30~1000



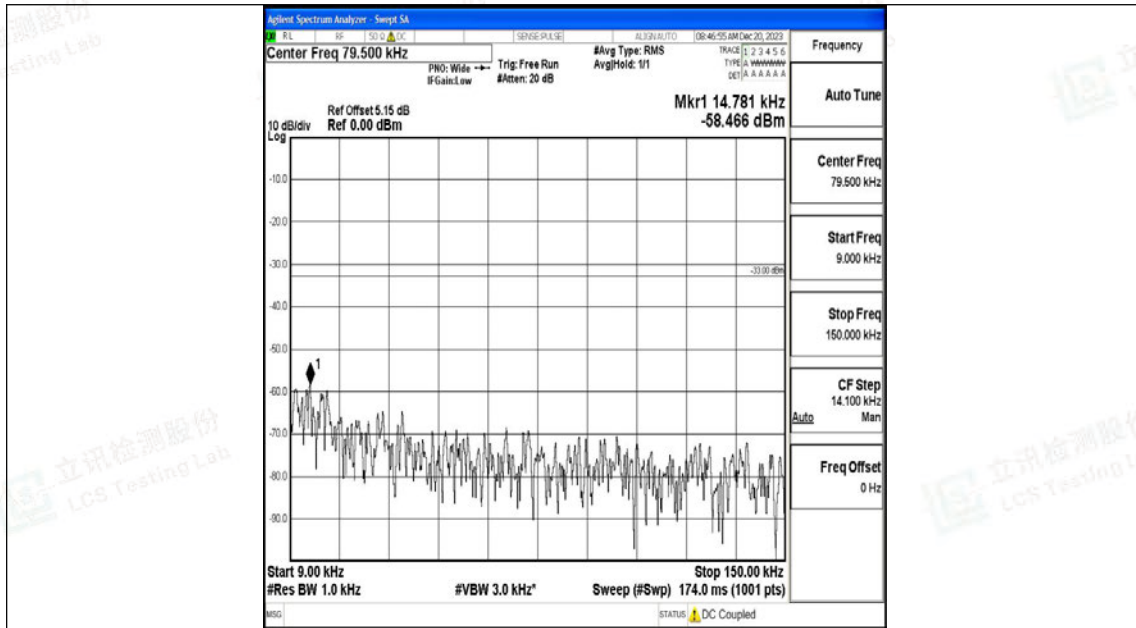


Band17_5MHz_16QAM_23790_1RB#0_1000~3000_1000~3000

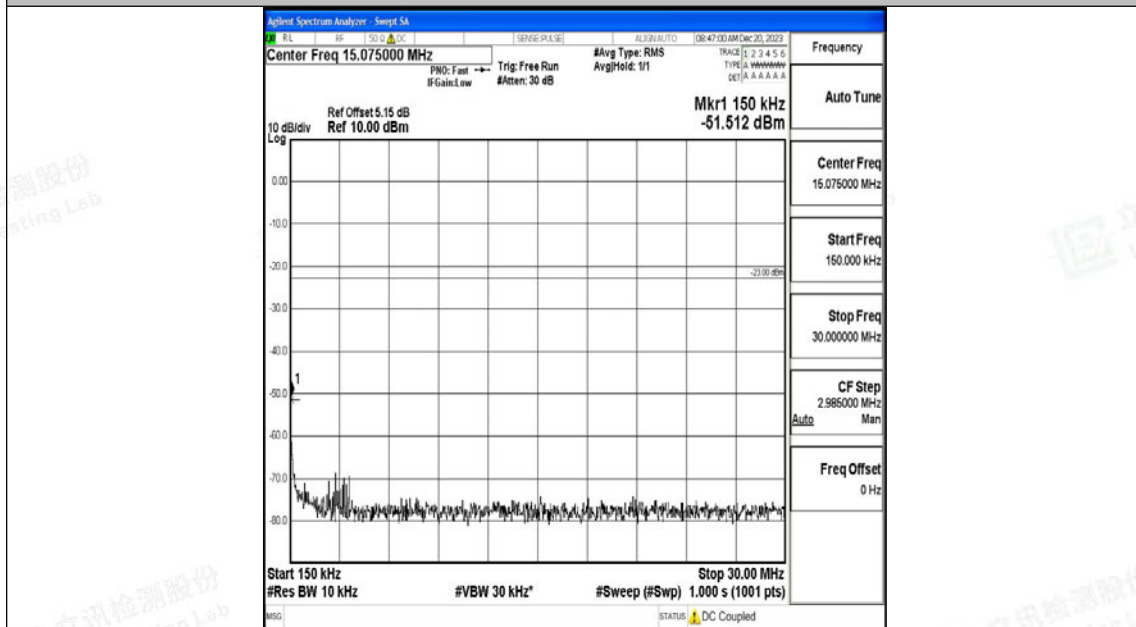


Band17_5MHz_16QAM_23790_1RB#0_3000~10000_3000~10000



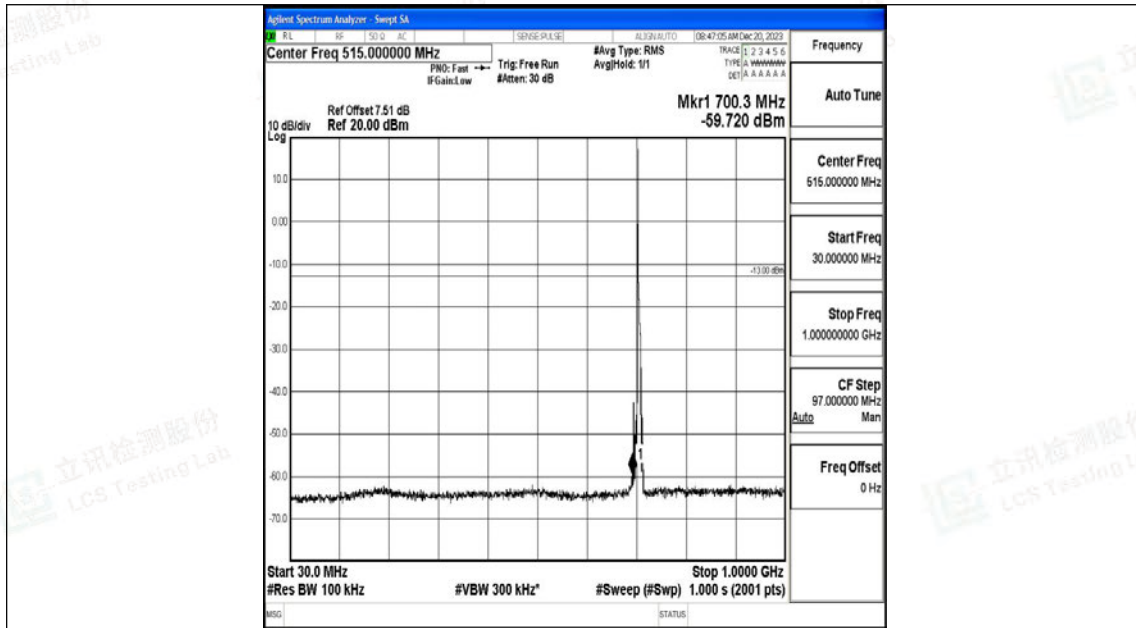


Band17_5MHz_QPSK_23825_1RB#0_0.009~0.15_0.009~0.15

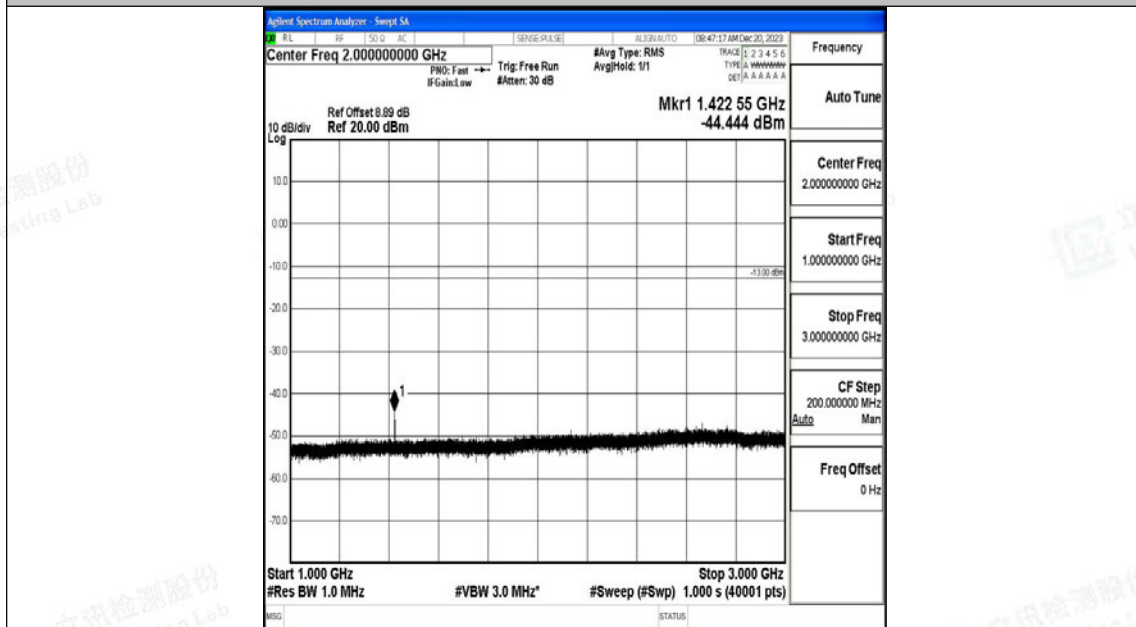


Band17_5MHz_QPSK_23825_1RB#0_0.15~30_0.15~30



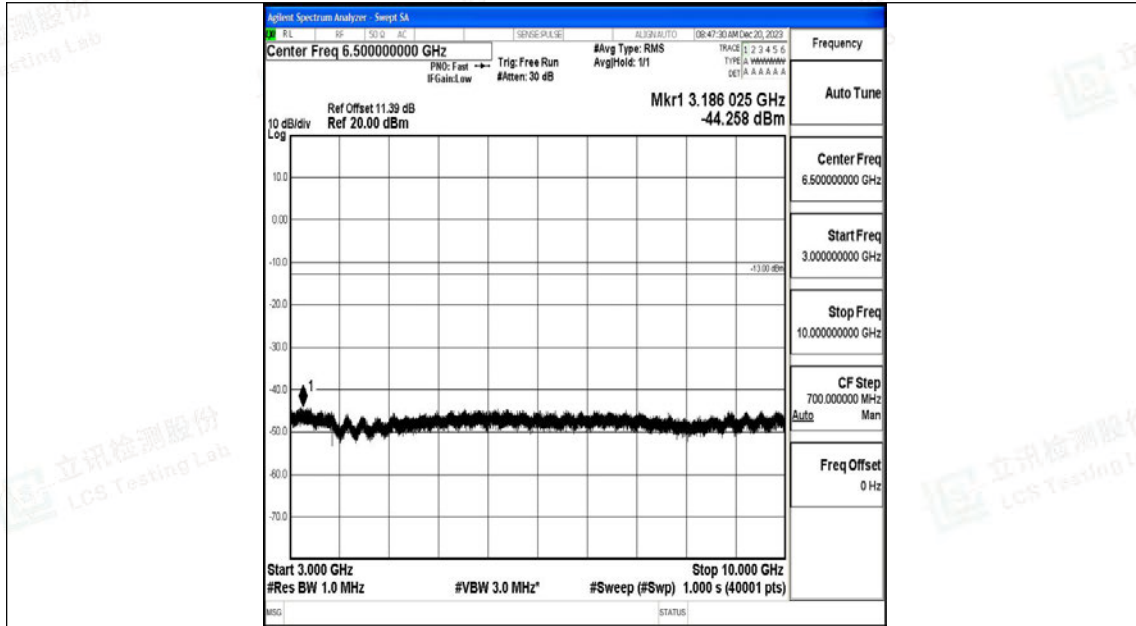


Band17_5MHz_QPSK_23825_1RB#0_30~1000_30~1000

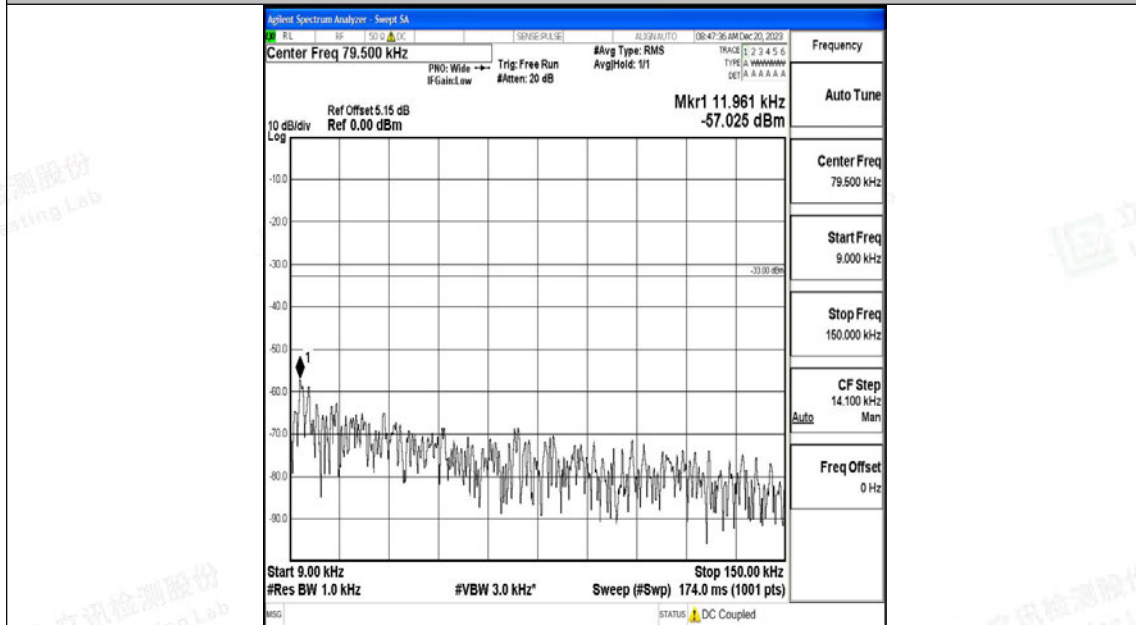


Band17_5MHz_QPSK_23825_1RB#0_1000~3000_1000~3000



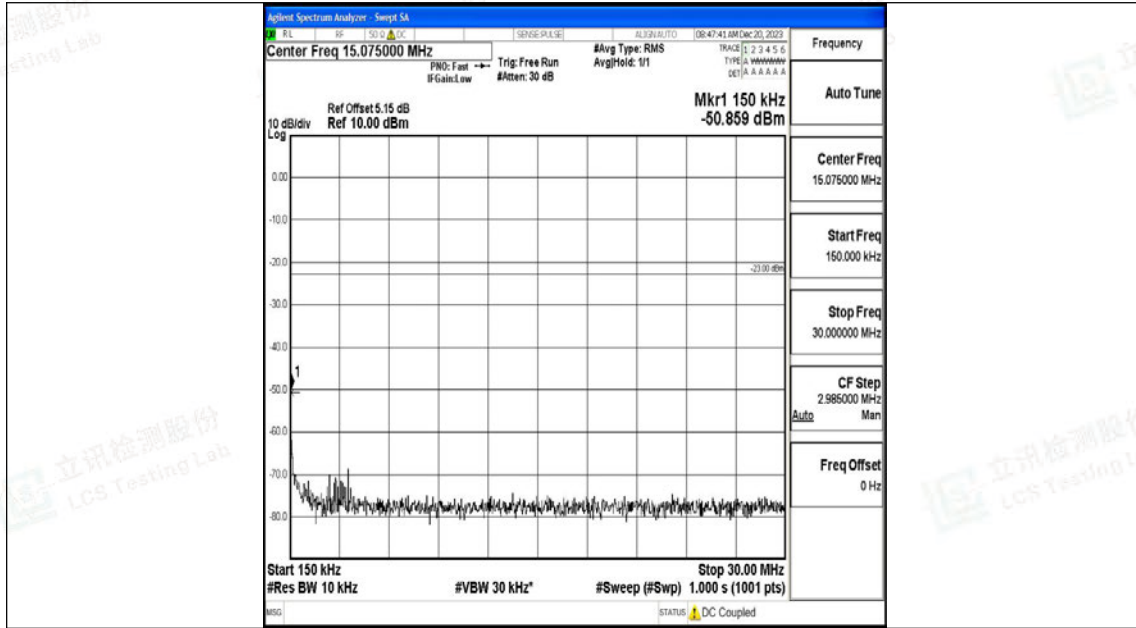


Band17_5MHz_QPSK_23825_1RB#0_3000~10000_3000~10000

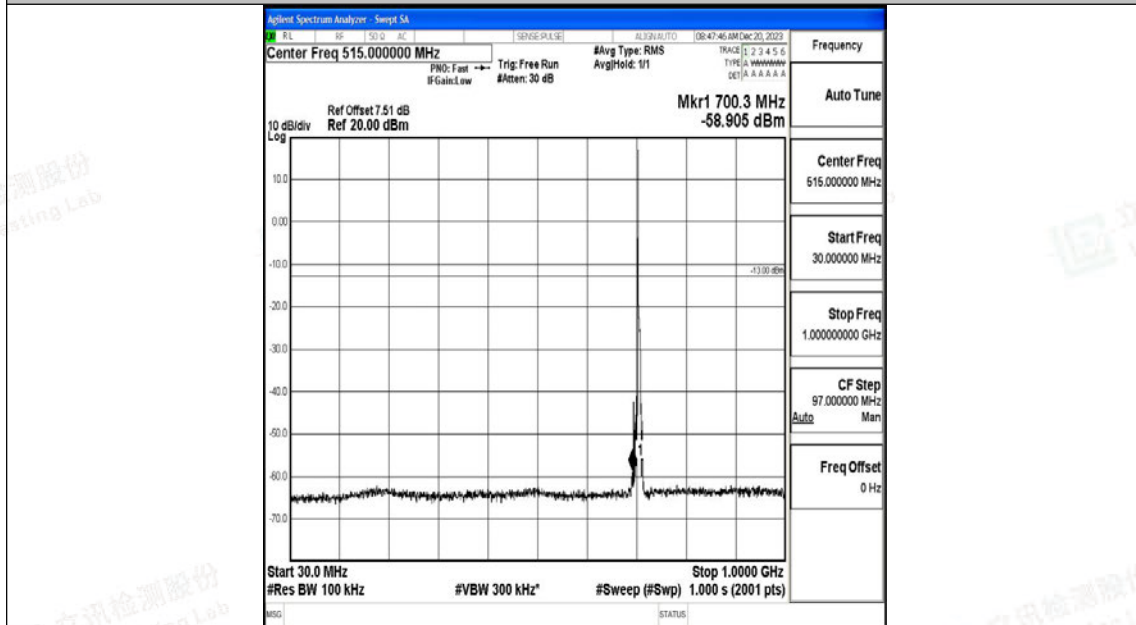


Band17_5MHz_16QAM_23825_1RB#0_0.009~0.15_0.009~0.15



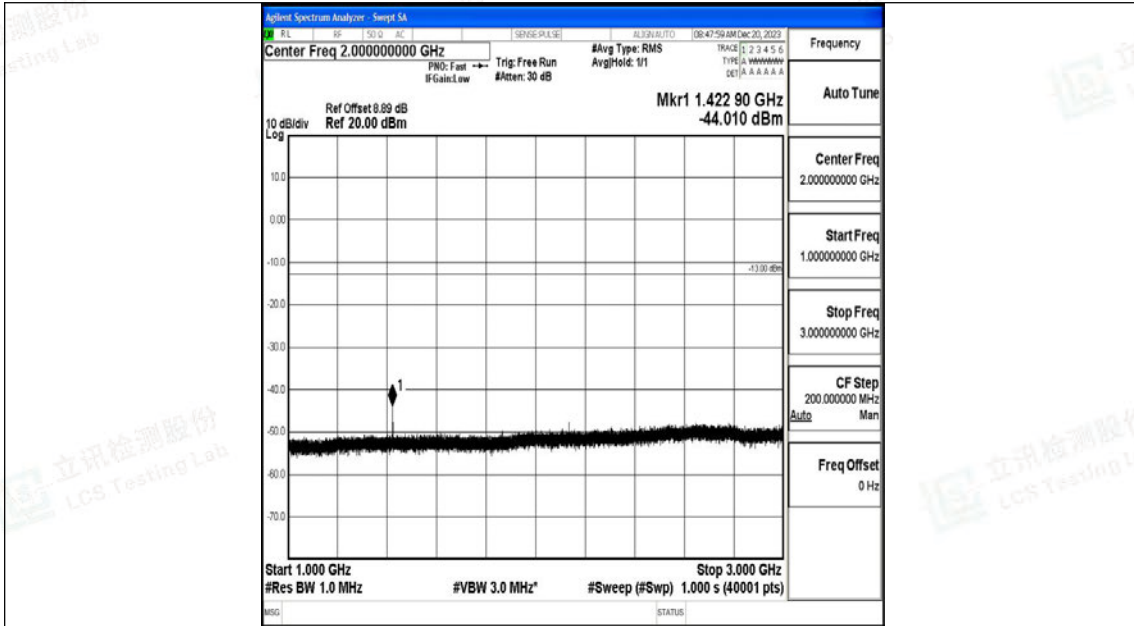


Band17_5MHz_16QAM_23825_1RB#0_0.15~30_0.15~30

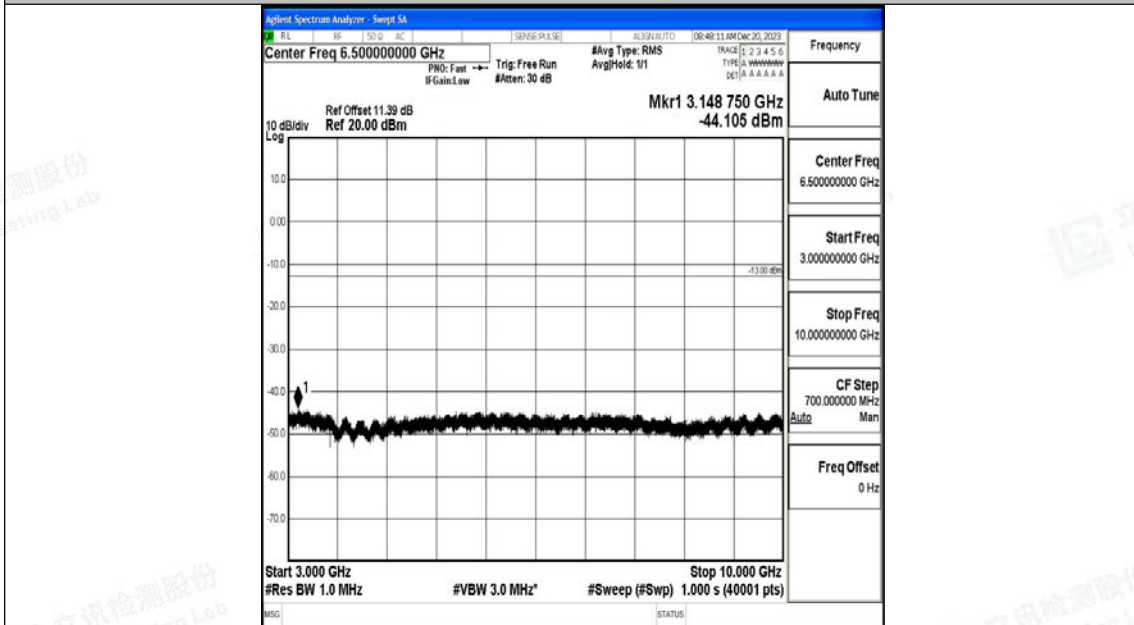


Band17_5MHz_16QAM_23825_1RB#0_30~1000_30~1000



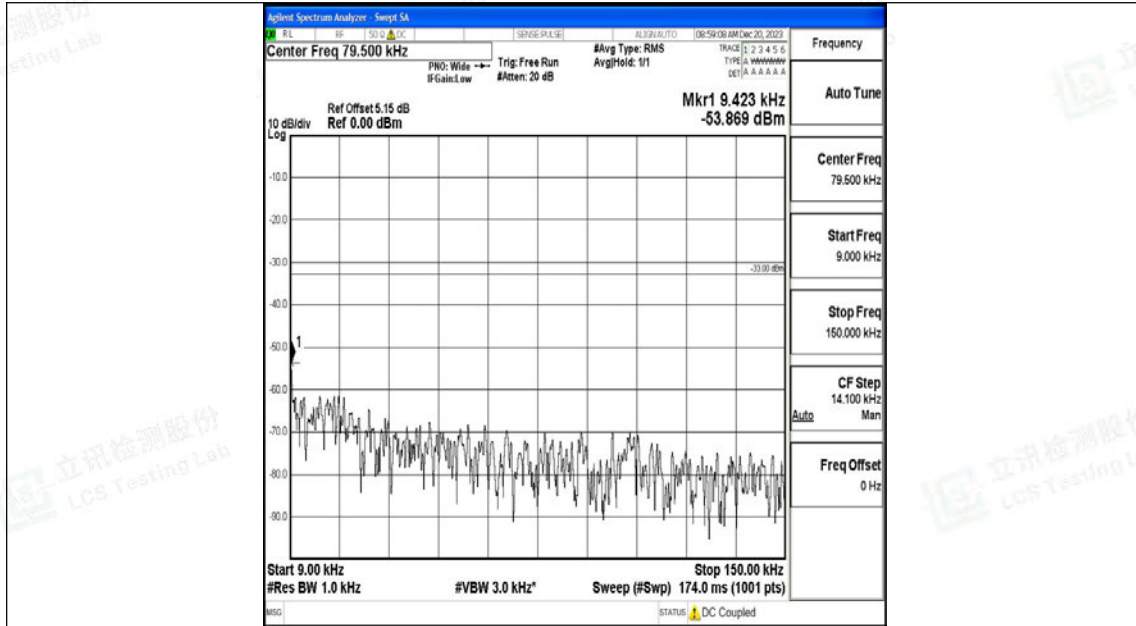


Band17_5MHz_16QAM_23825_1RB#0_1000~3000_1000~3000

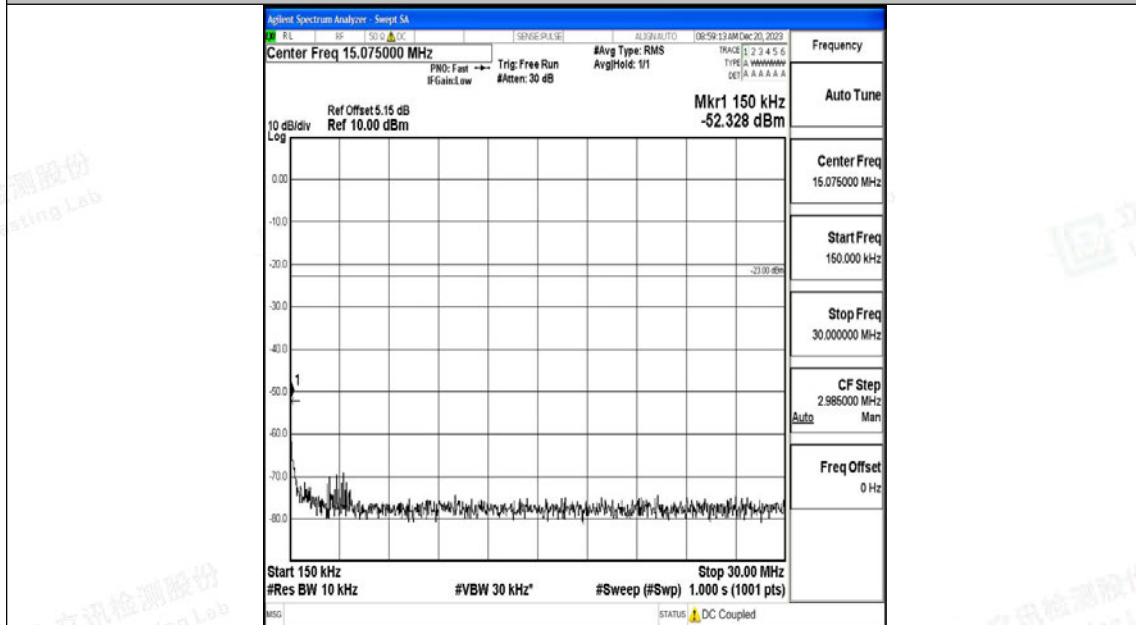


Band17_5MHz_16QAM_23825_1RB#0_3000~10000_3000~10000



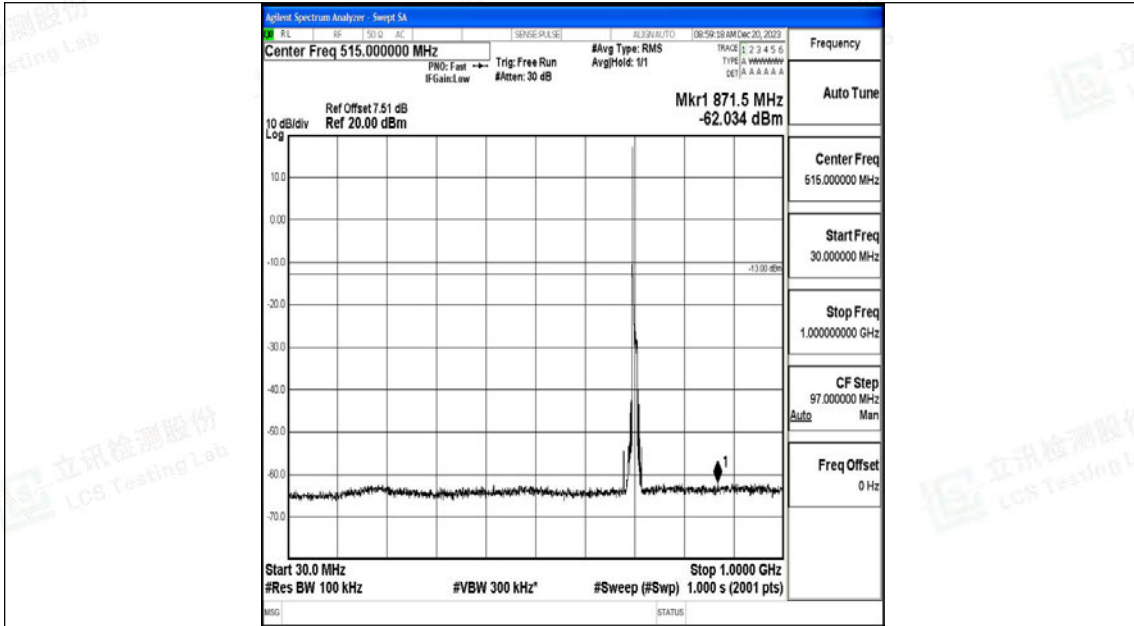


Band17_10MHz_QPSK_23780_1RB#0_0.009~0.15_0.009~0.15

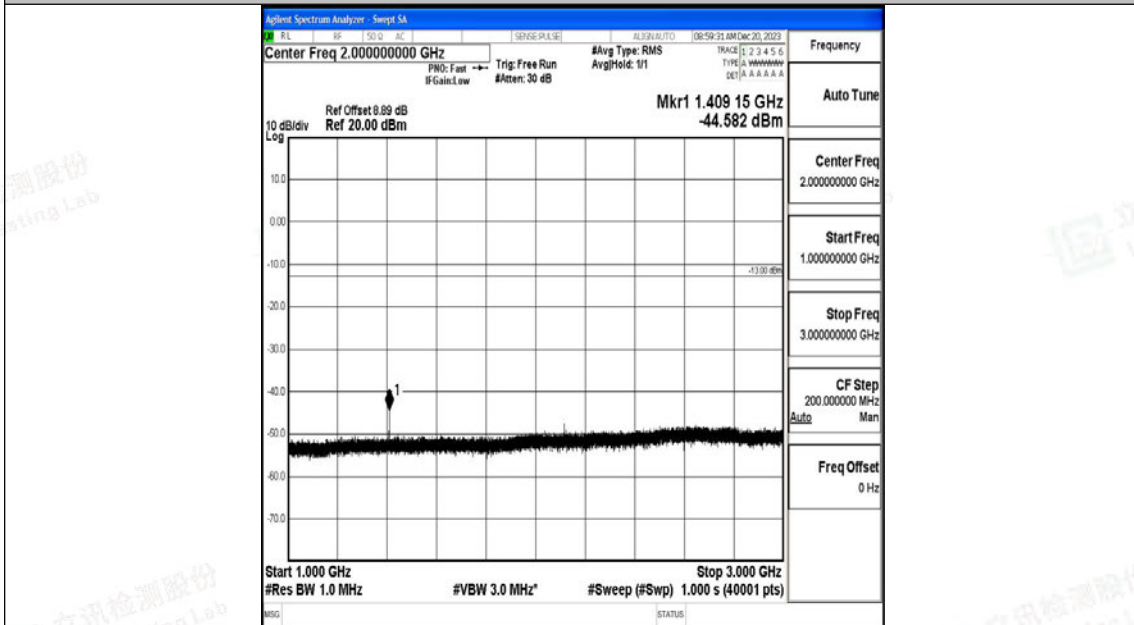


Band17_10MHz_QPSK_23780_1RB#0_0.15~30_0.15~30



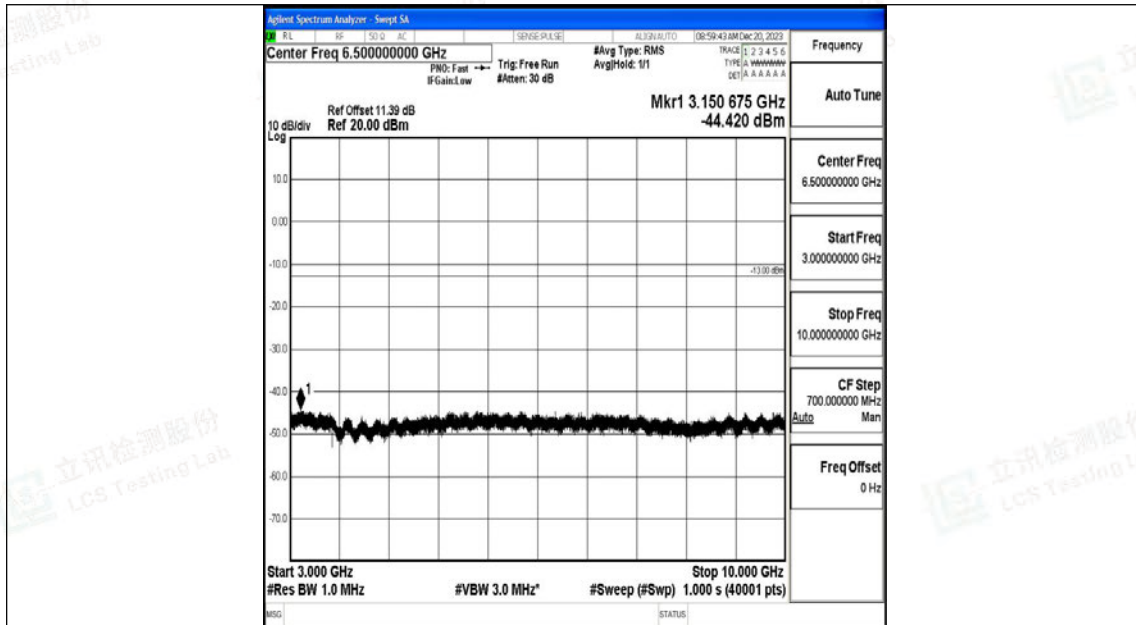


Band17_10MHz_QPSK_23780_1RB#0_30~1000_30~1000

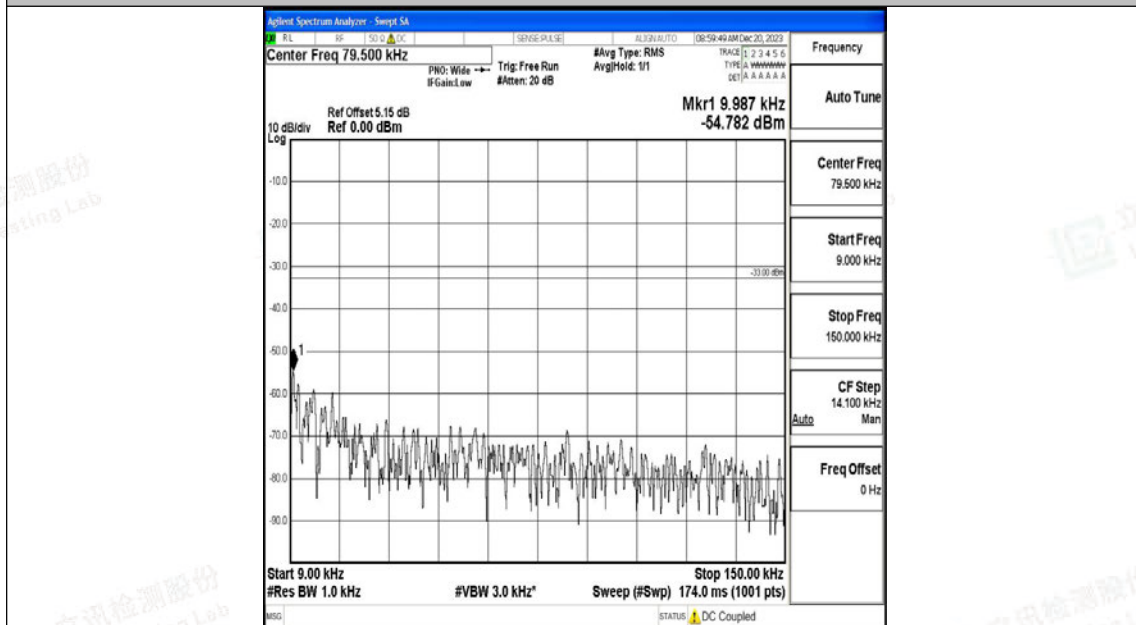


Band17_10MHz_QPSK_23780_1RB#0_1000~3000_1000~3000



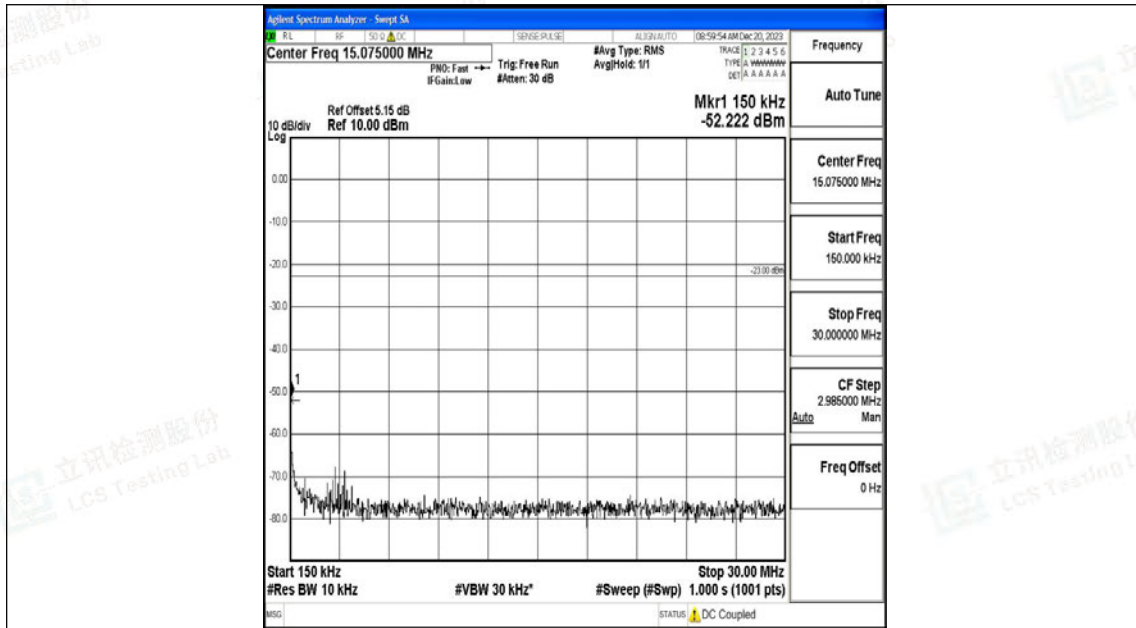


Band17_10MHz_QPSK_23780_1RB#0_3000~10000_3000~10000

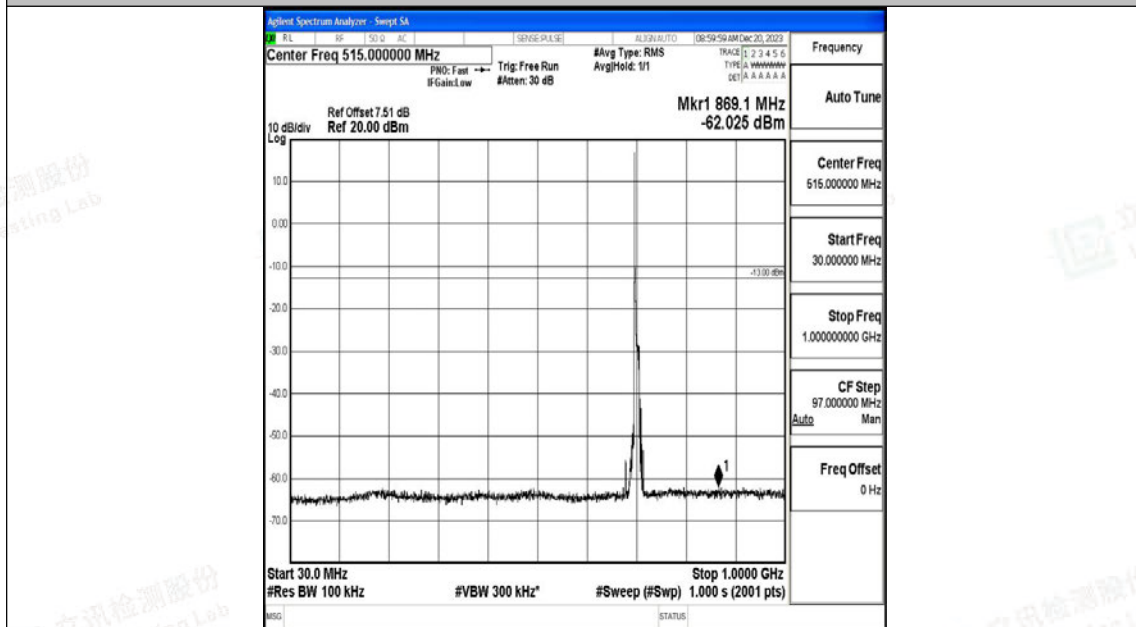


Band17_10MHz_16QAM_23780_1RB#0_0.009~0.15_0.009~0.15



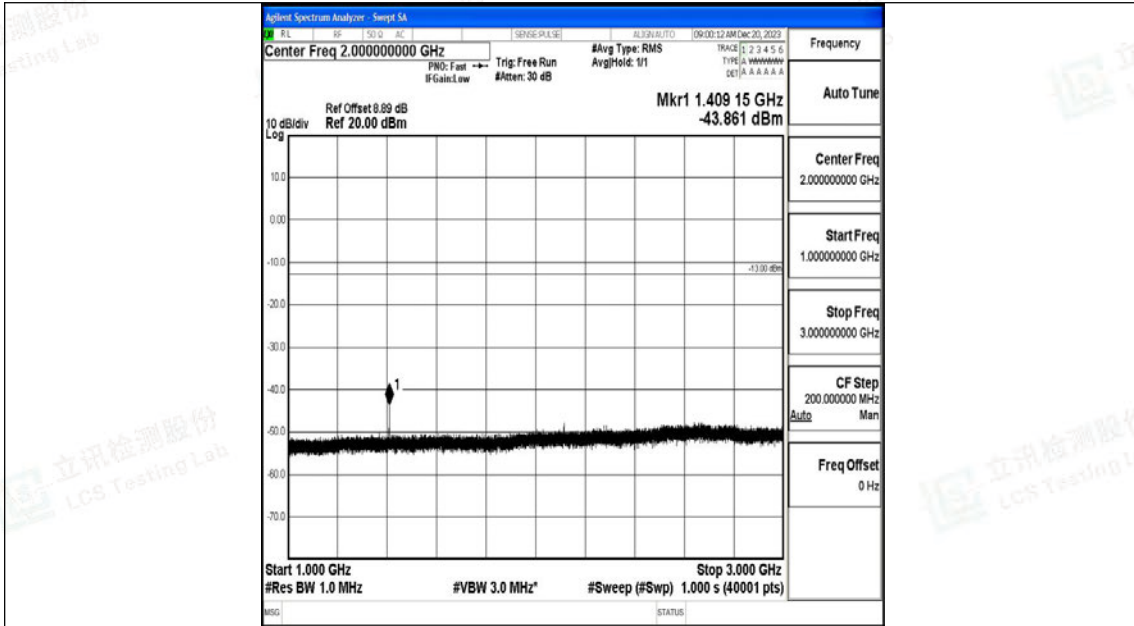


Band17_10MHz_16QAM_23780_1RB#0_0.15~30_0.15~30

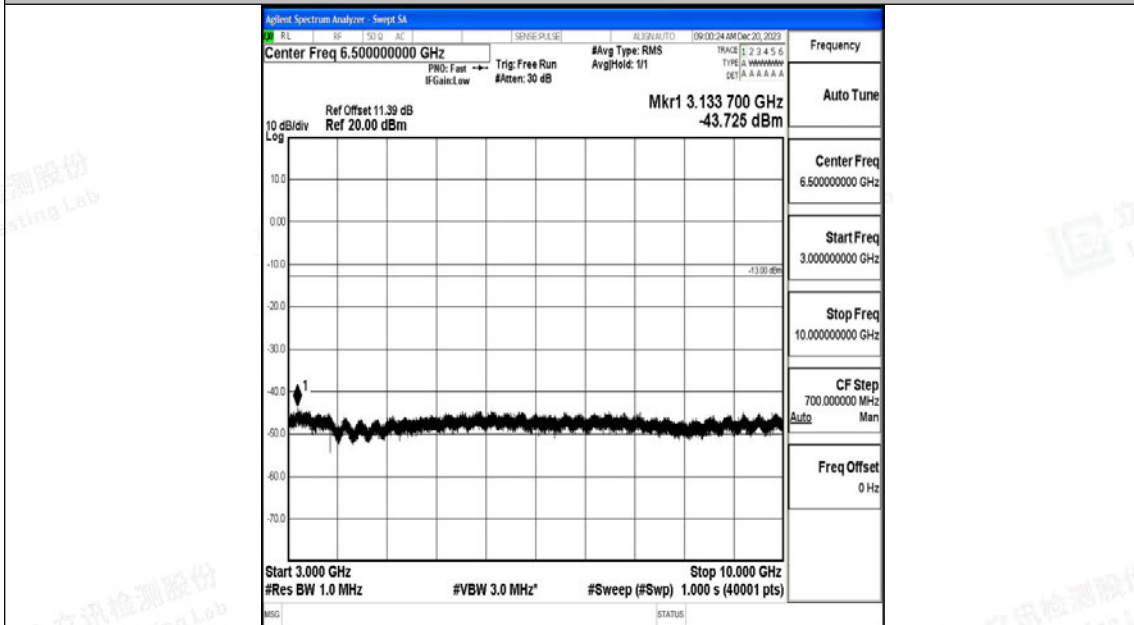


Band17_10MHz_16QAM_23780_1RB#0_30~1000_30~1000



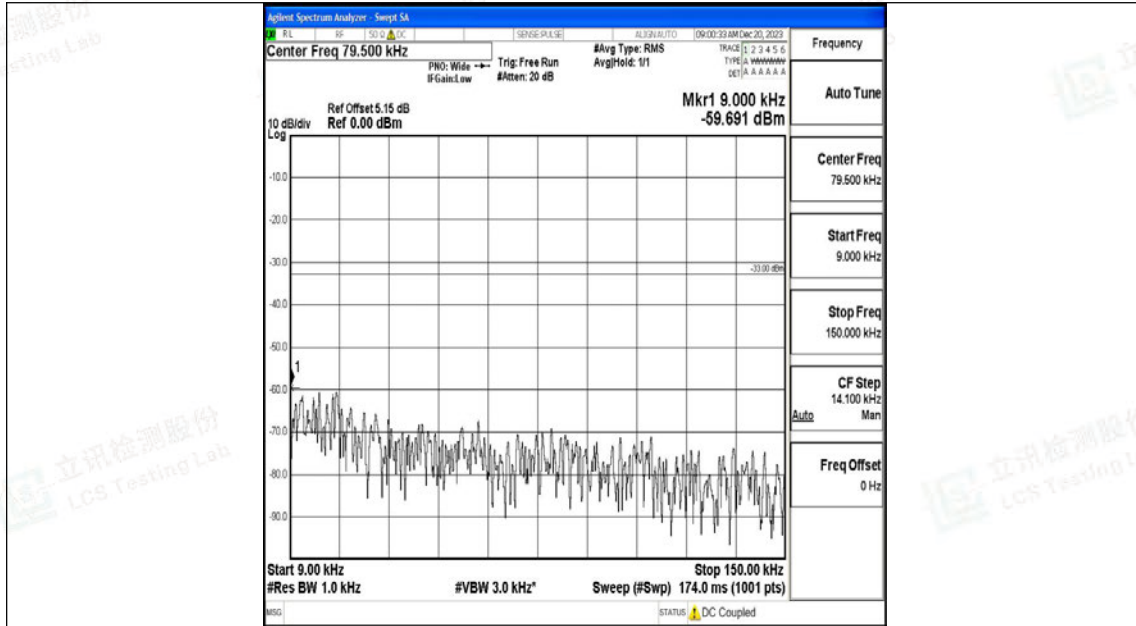


Band17_10MHz_16QAM_23780_1RB#0_1000~3000_1000~3000

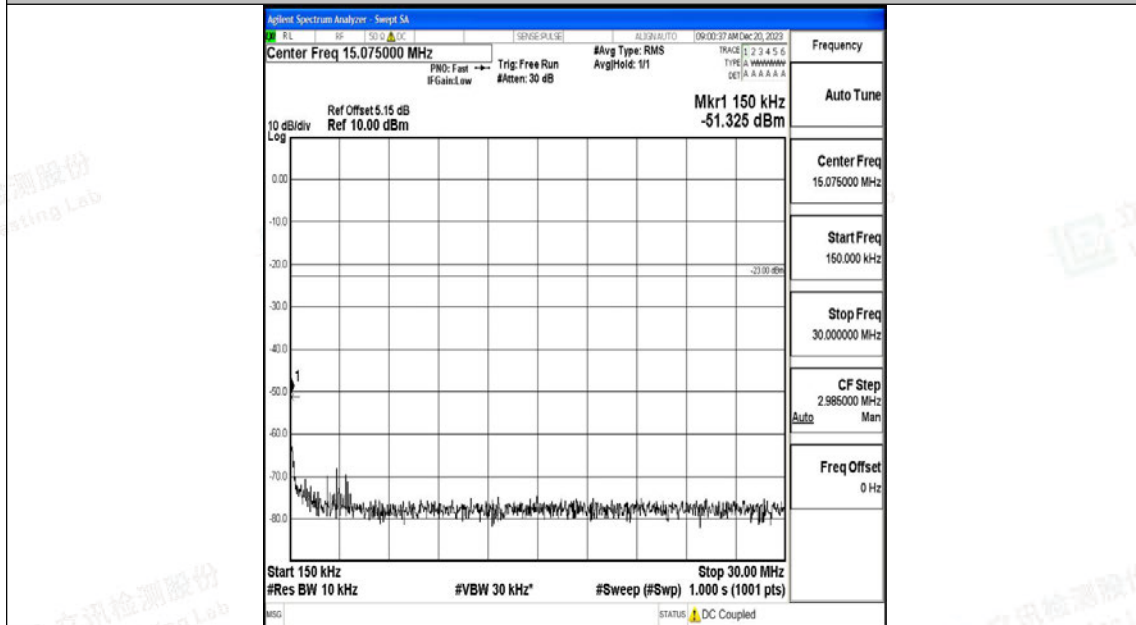


Band17_10MHz_16QAM_23780_1RB#0_3000~10000_3000~10000



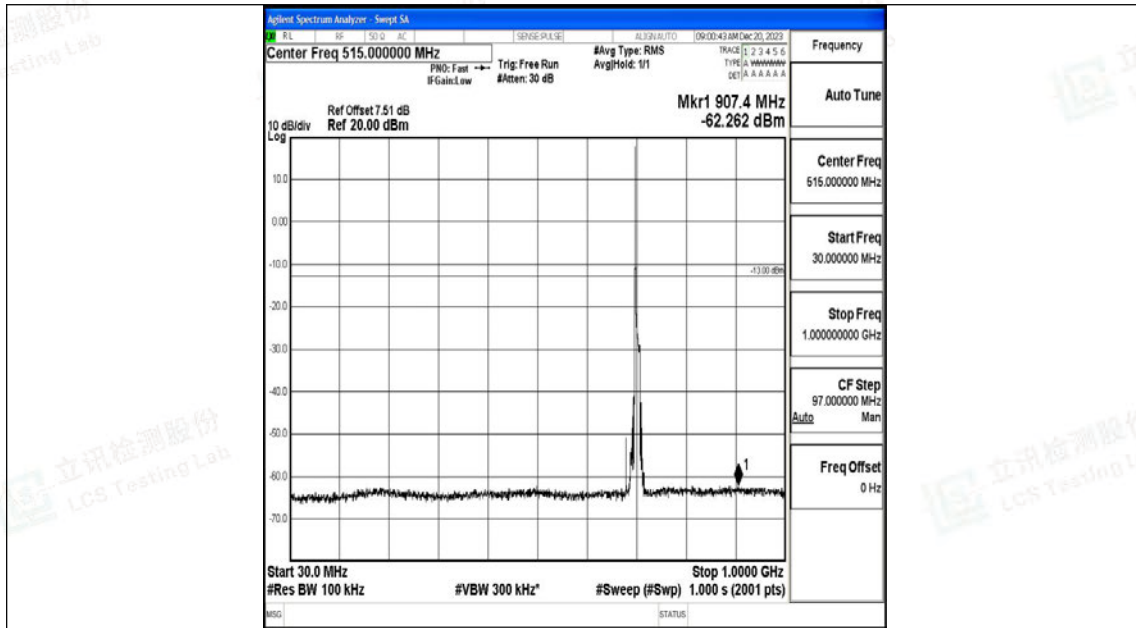


Band17_10MHz_QPSK_23790_1RB#0_0.009~0.15_0.009~0.15

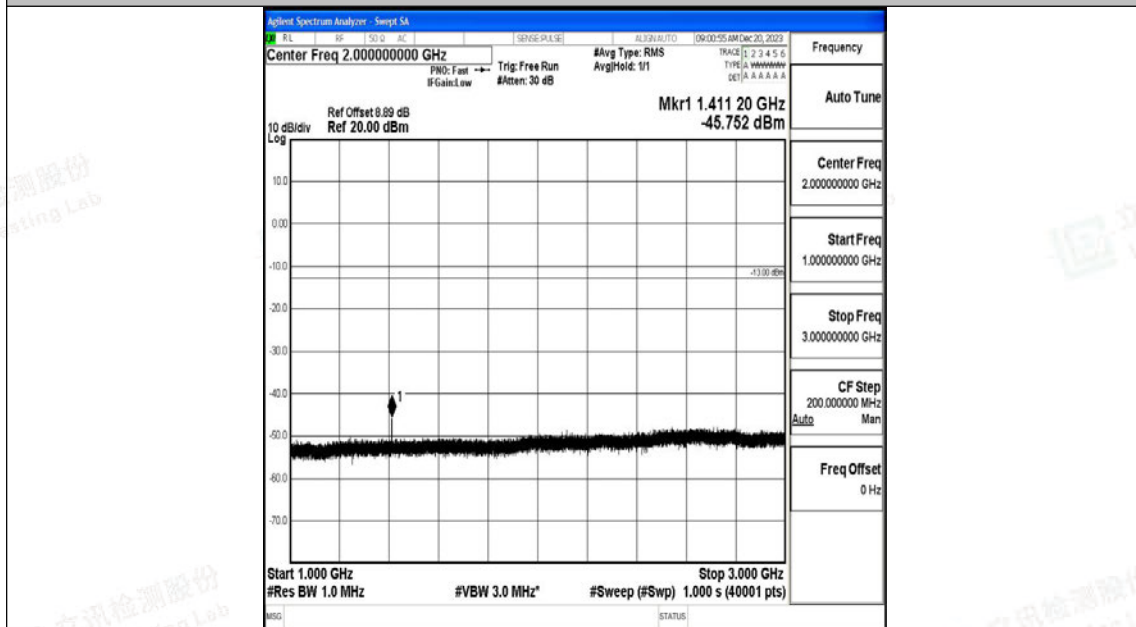


Band17_10MHz_QPSK_23790_1RB#0_0.15~30_0.15~30



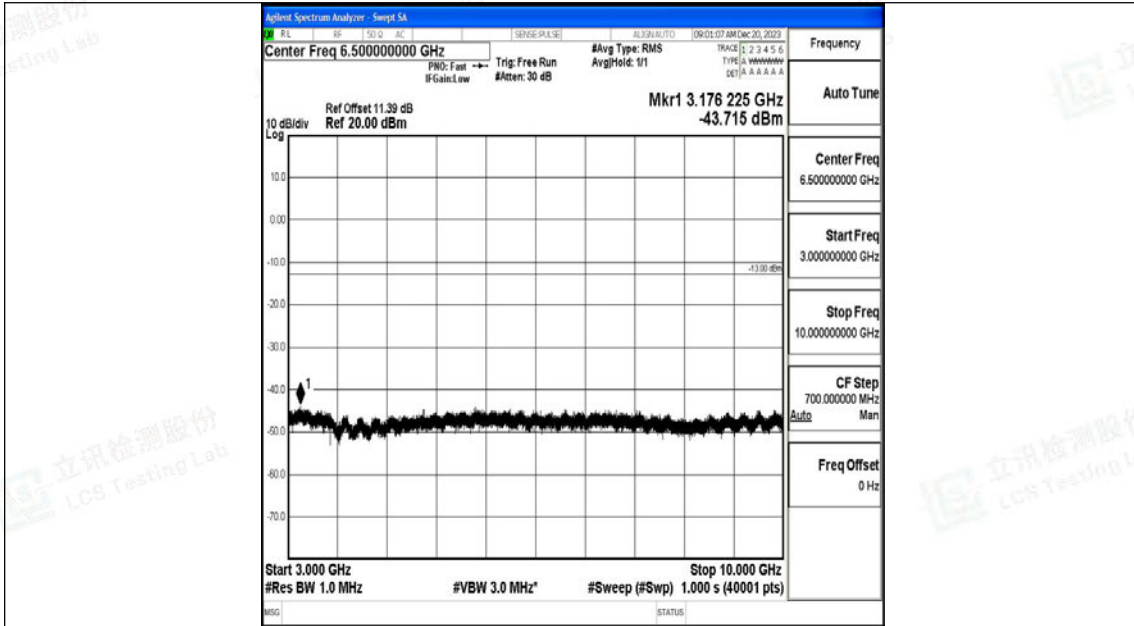


Band17_10MHz_QPSK_23790_1RB#0_30~1000_30~1000

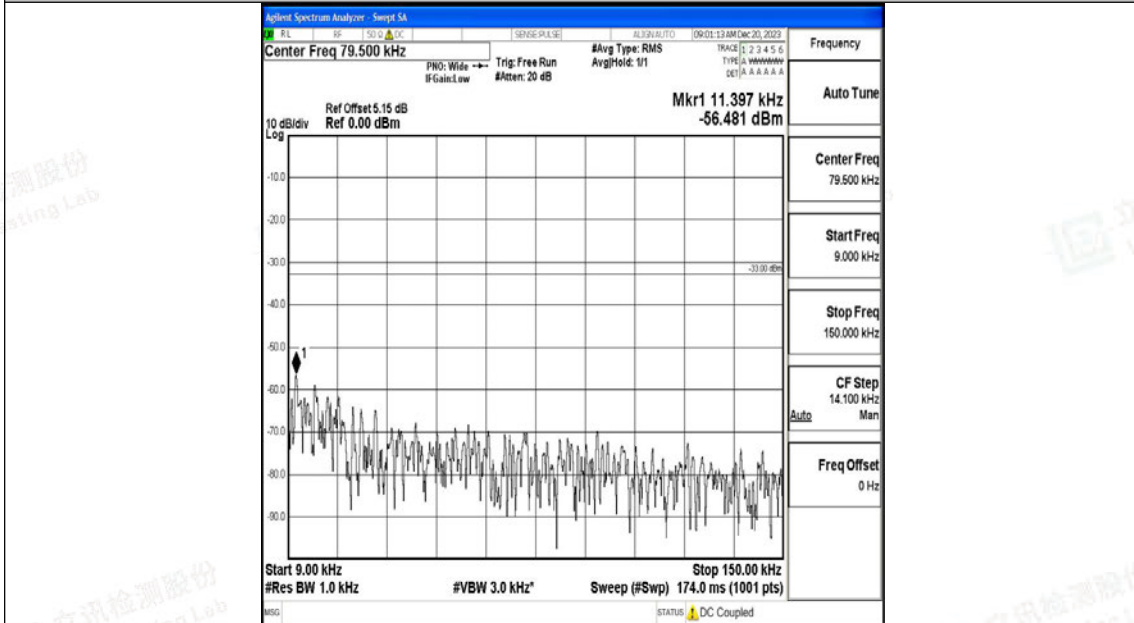


Band17_10MHz_QPSK_23790_1RB#0_1000~3000_1000~3000



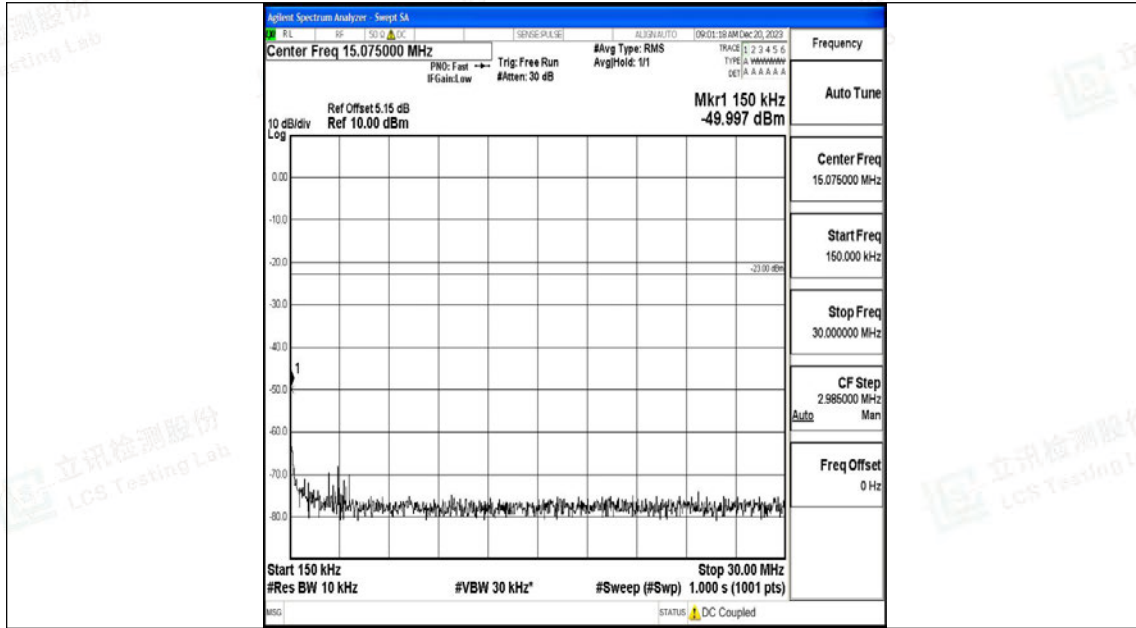


Band17_10MHz_QPSK_23790_1RB#0_3000~10000_3000~10000

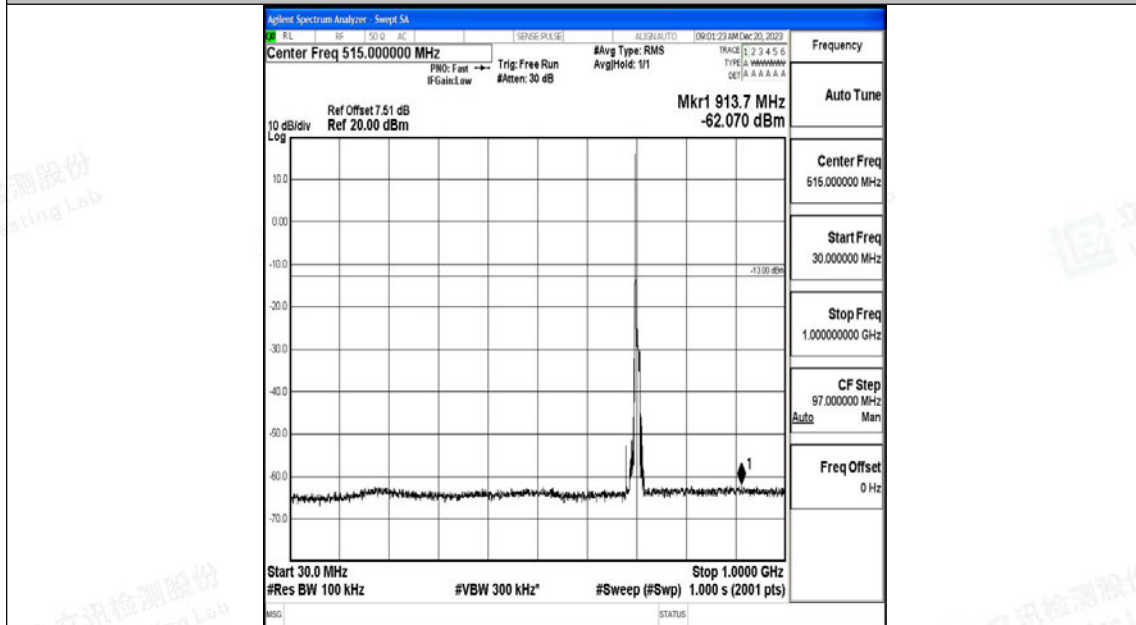


Band17_10MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15



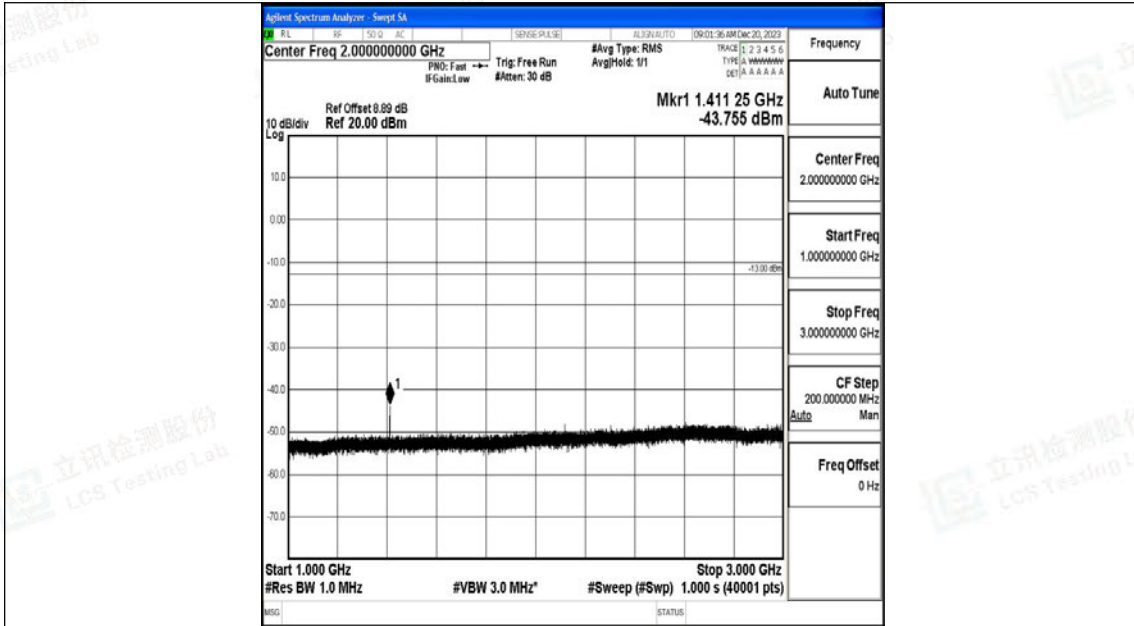


Band17_10MHz_16QAM_23790_1RB#0_0.15~30_0.15~30

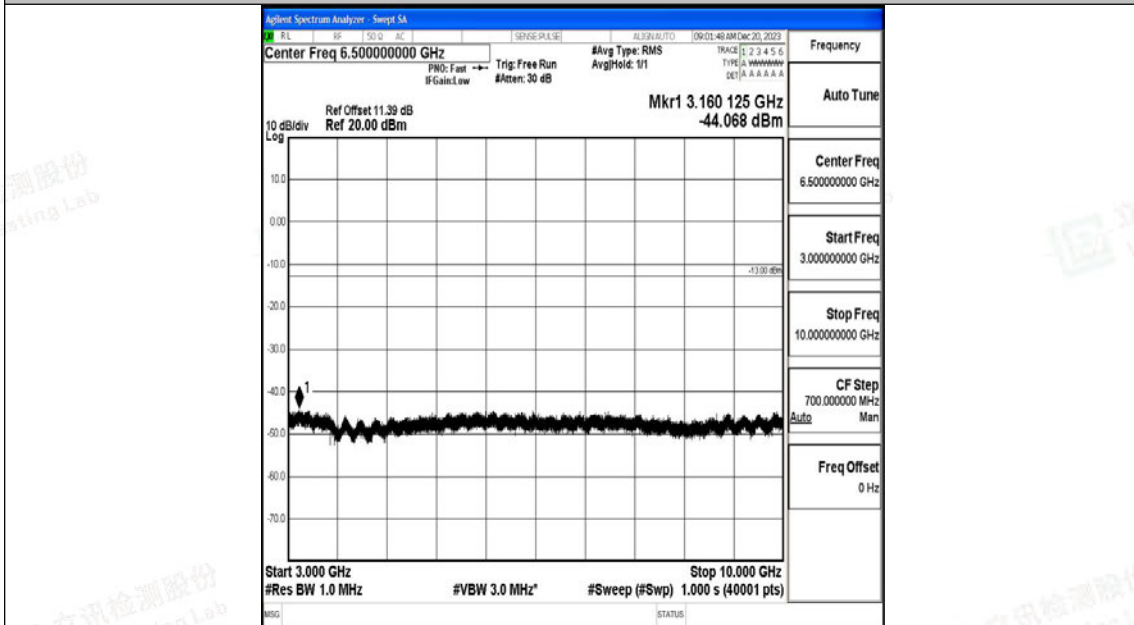


Band17_10MHz_16QAM_23790_1RB#0_30~1000_30~1000



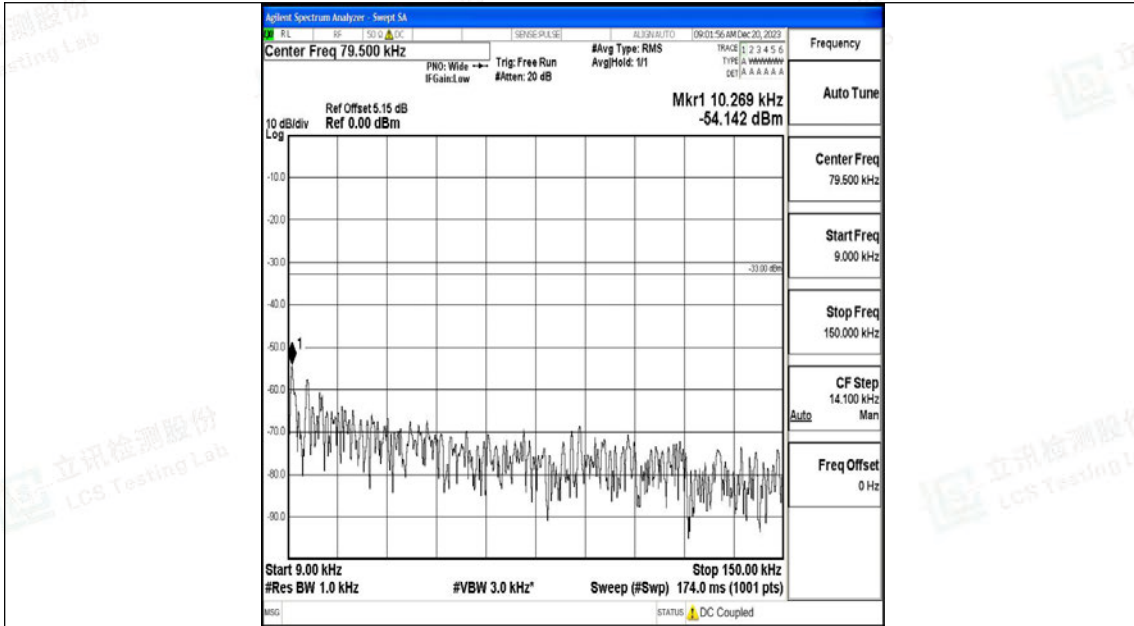


Band17_10MHz_16QAM_23790_1RB#0_1000~3000_1000~3000

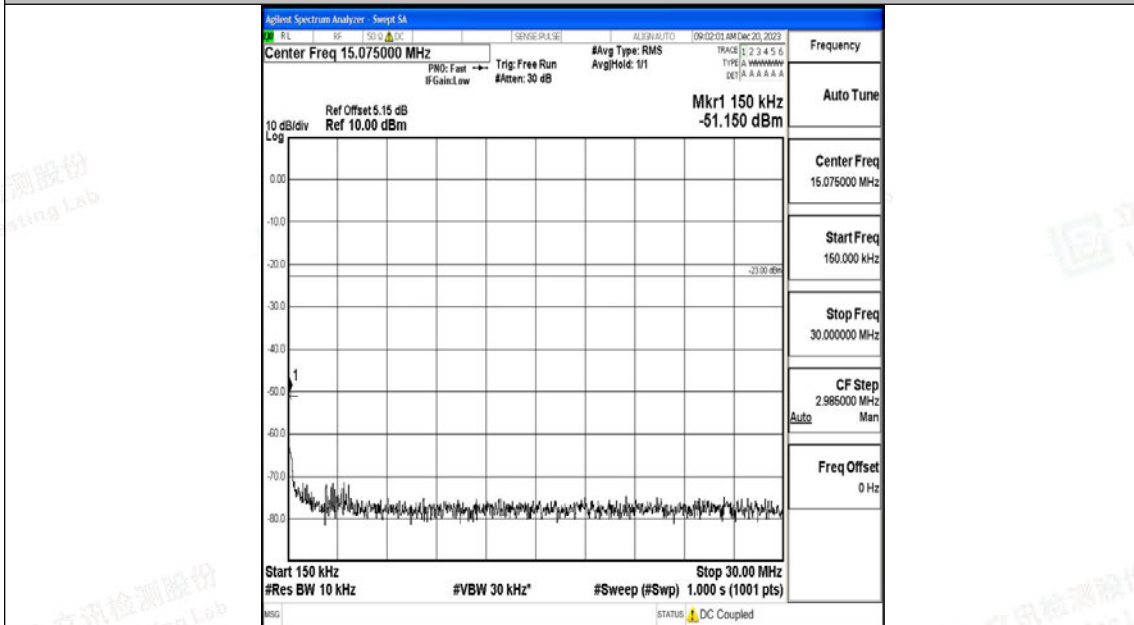


Band17_10MHz_16QAM_23790_1RB#0_3000~10000_3000~10000



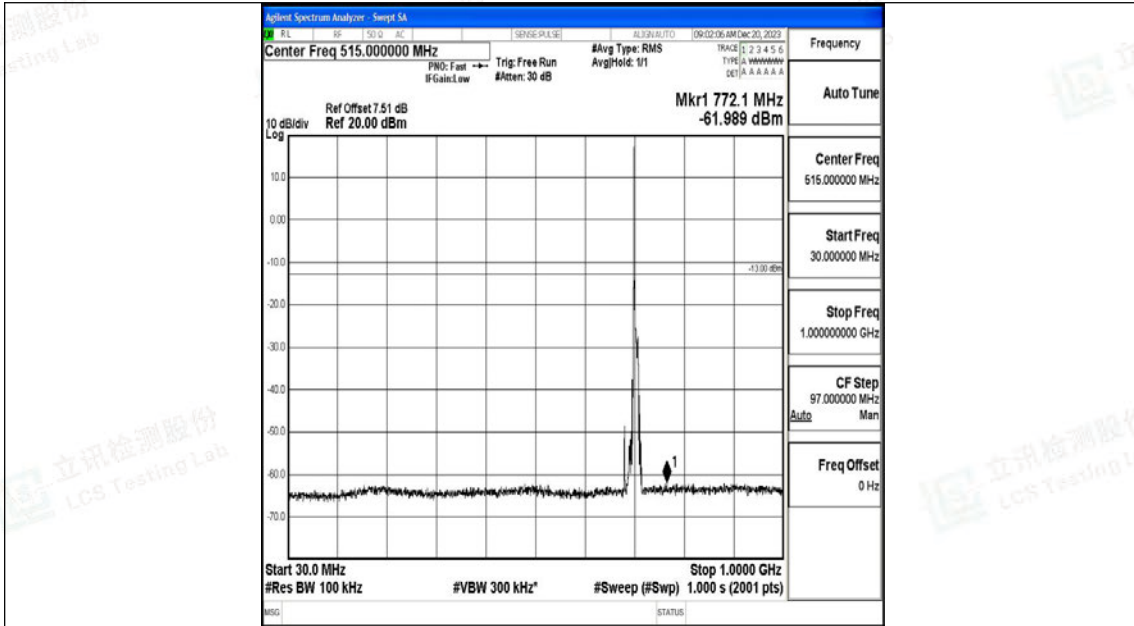


Band17_10MHz_QPSK_23800_1RB#0_0.009~0.15_0.009~0.15

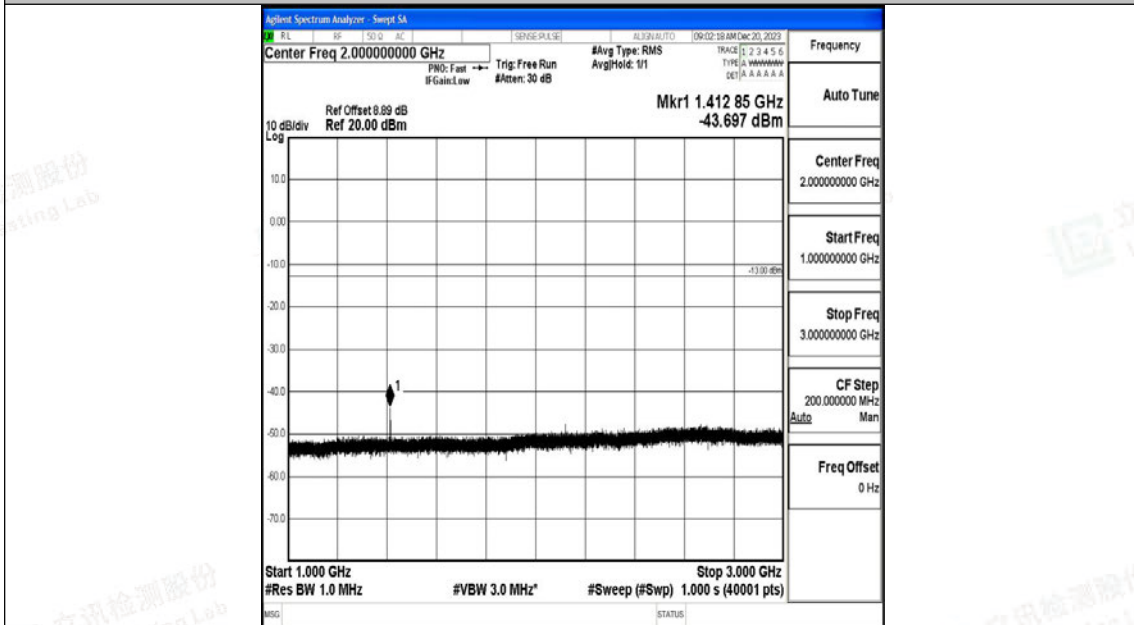


Band17_10MHz_QPSK_23800_1RB#0_0.15~30_0.15~30



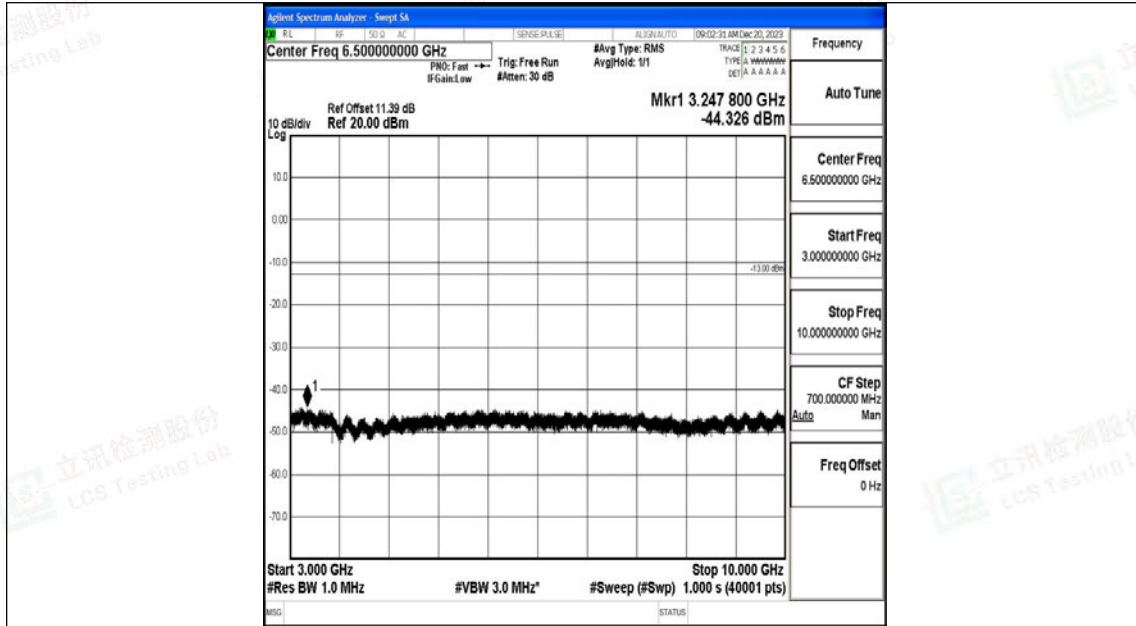


Band17_10MHz_QPSK_23800_1RB#0_30~1000_30~1000

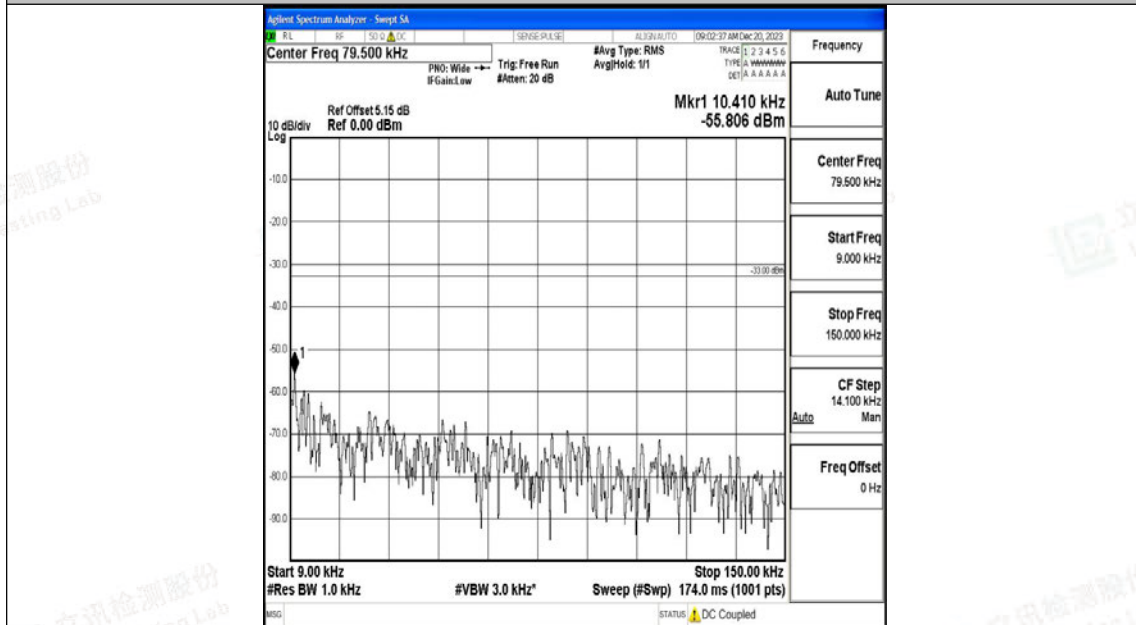


Band17_10MHz_QPSK_23800_1RB#0_1000~3000_1000~3000



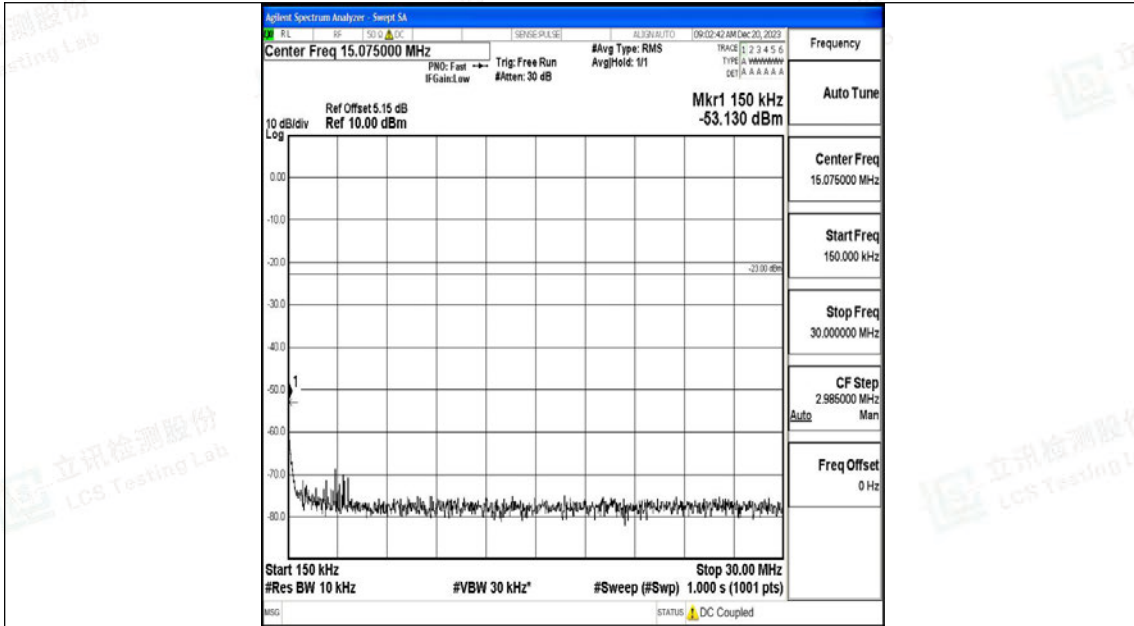


Band17_10MHz_QPSK_23800_1RB#0_3000~10000_3000~10000

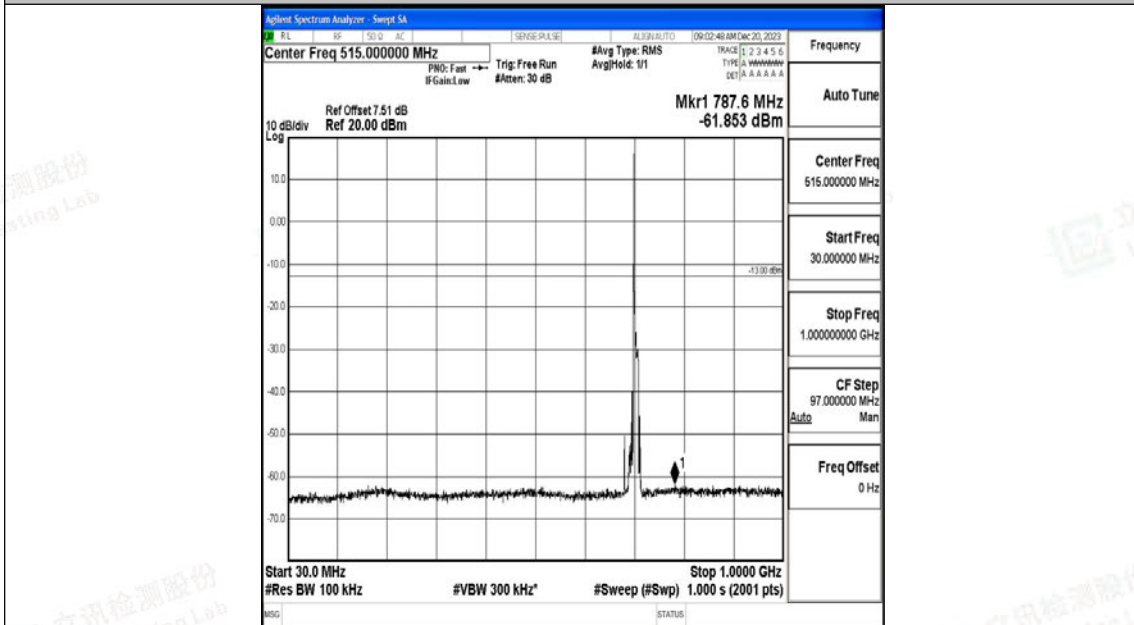


Band17_10MHz_16QAM_23800_1RB#0_0.009~0.15_0.009~0.15



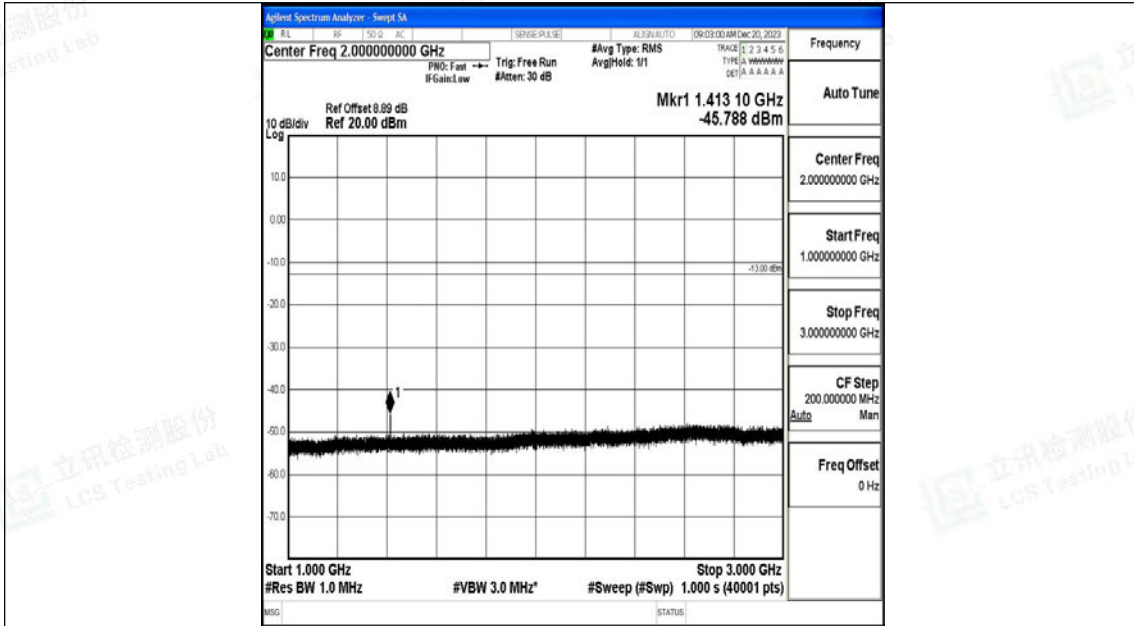


Band17_10MHz_16QAM_23800_1RB#0_0.15~30_0.15~30

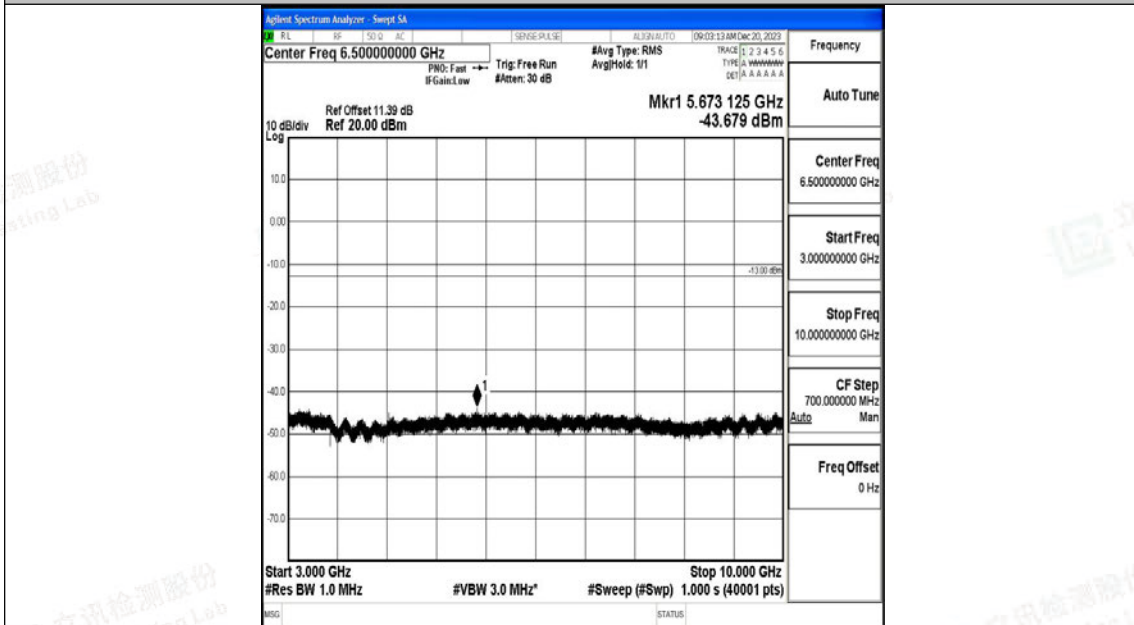


Band17_10MHz_16QAM_23800_1RB#0_30~1000_30~1000





Band17_10MHz_16QAM_23800_1RB#0_1000~3000_1000~3000



Band17_10MHz_16QAM_23800_1RB#0_3000~10000_3000~10000

