



Appendix J: Test Data for E-UTRA Band 13

Product Name: Smartphone

Test Model: CG65

Environmental Conditions

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





J.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.50	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.54	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.61	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.67	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.52	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.59	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.53	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.63	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.55	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.60	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.55	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.67	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.57	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.66	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.56	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.73	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.63	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.85	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.56	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.82	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.56	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.66	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.57	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.69	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.58	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.71	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.62	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.68	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.62	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.68	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.67	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.72	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.59	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.66	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.60	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.66	PASS



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 Scan code to check authenticity



Band13	5MHz	QPSK	23255	12RB#6	21.62	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.67	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.51	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.60	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.60	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.74	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.55	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.76	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.71	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.94	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.57	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.82	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.71	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.76	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.69	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.78	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.64	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.73	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.67	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.70	PASS



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 Scan code to check authenticity



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

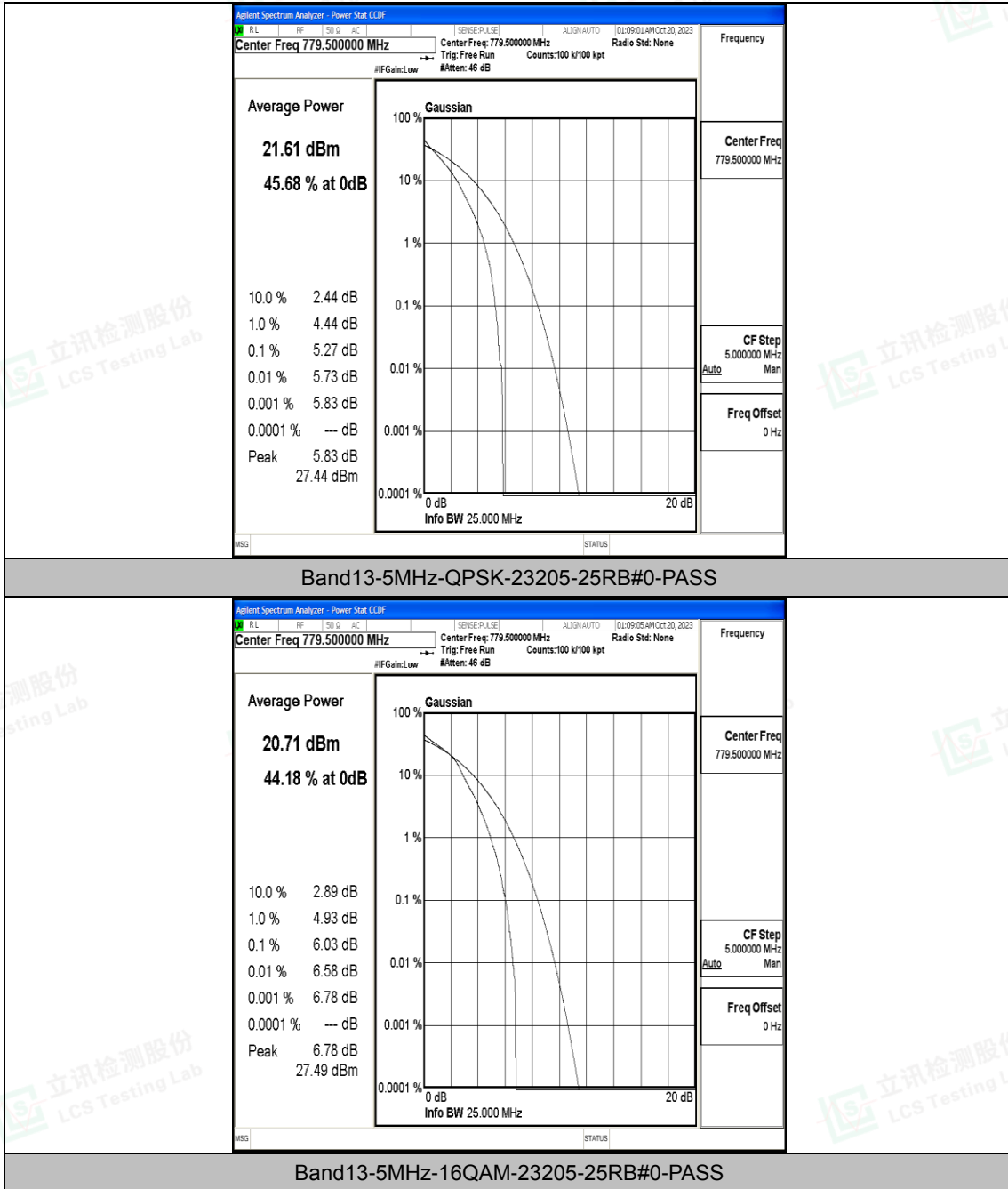
Test Result

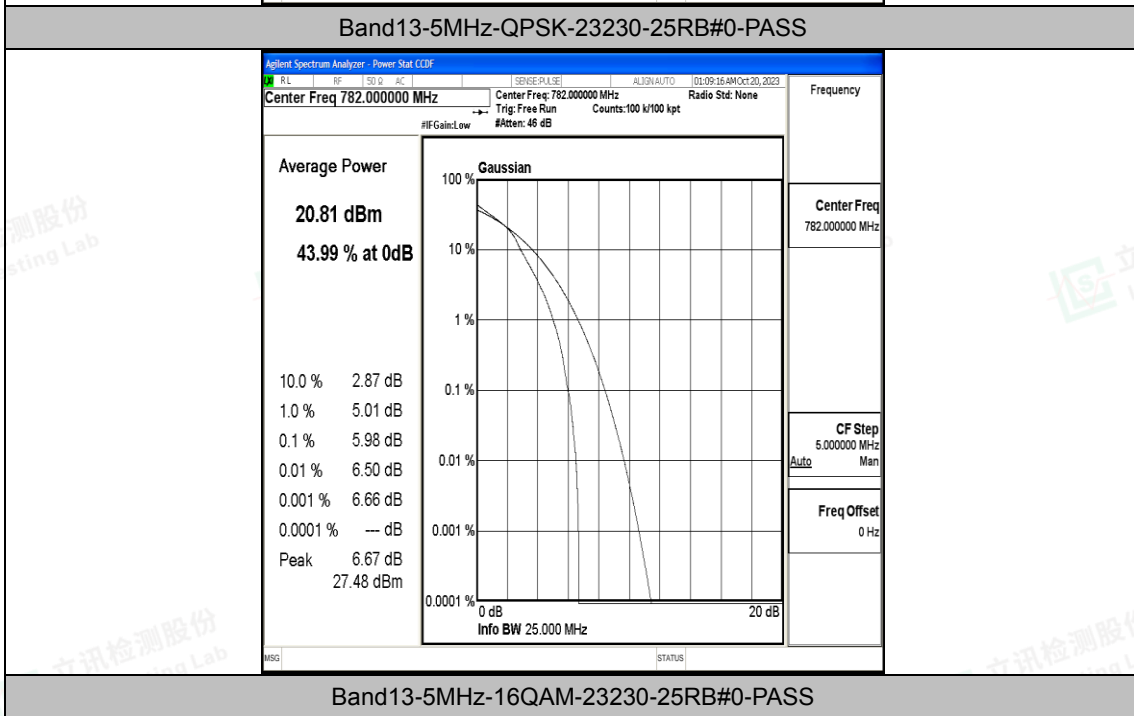
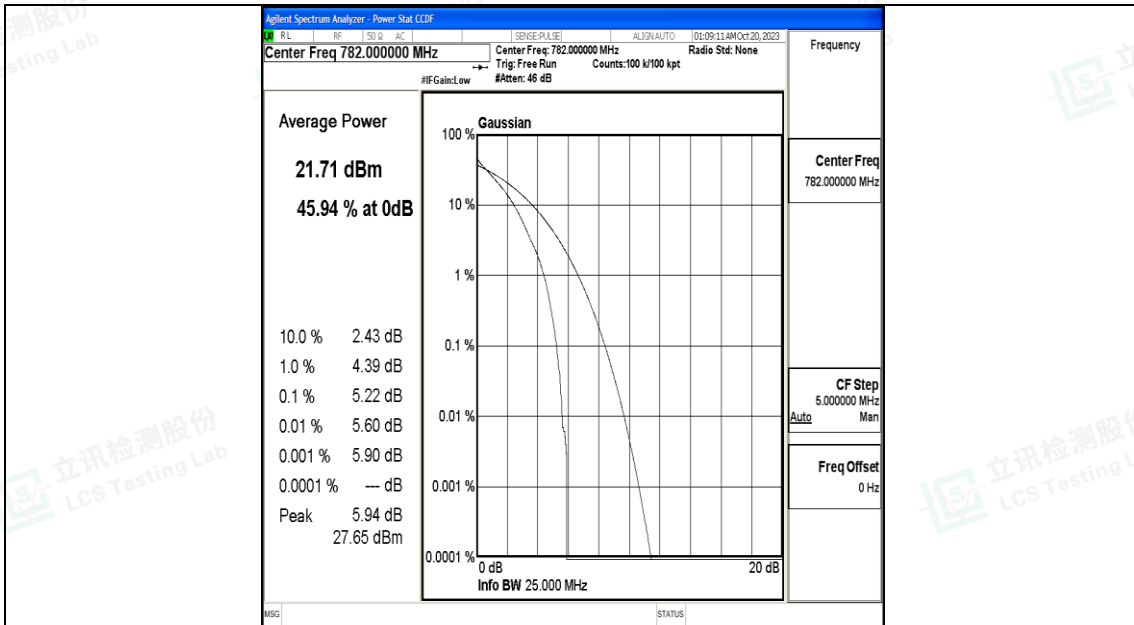
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.27	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.03	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.22	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.98	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.36	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.06	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.33	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.12	13	PASS

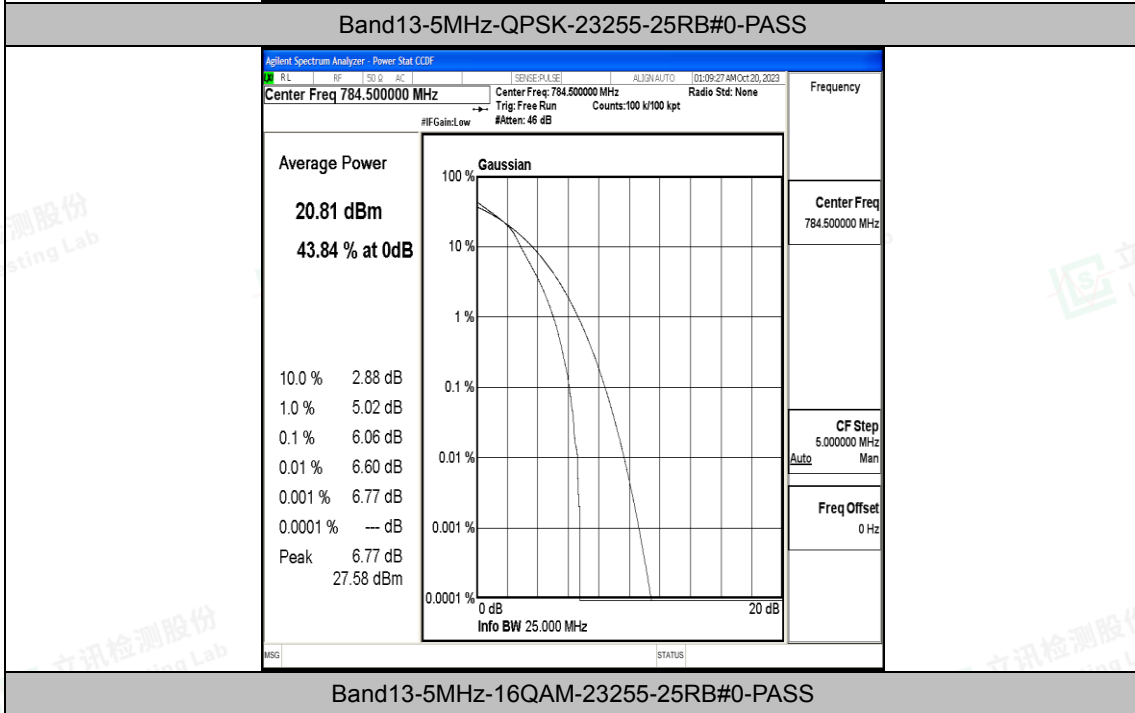
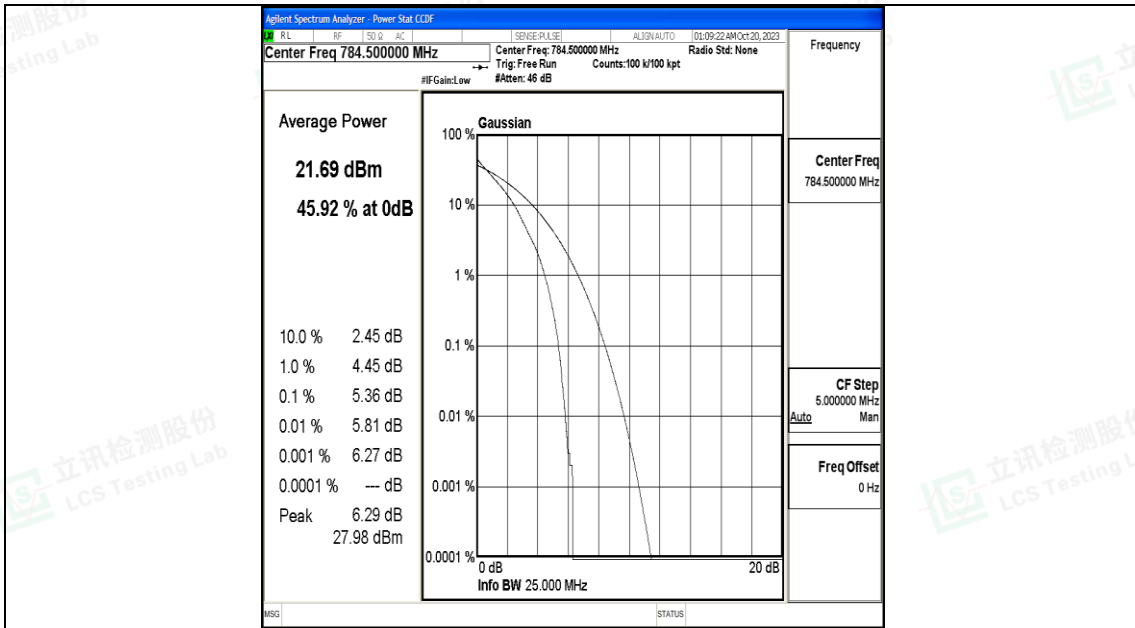


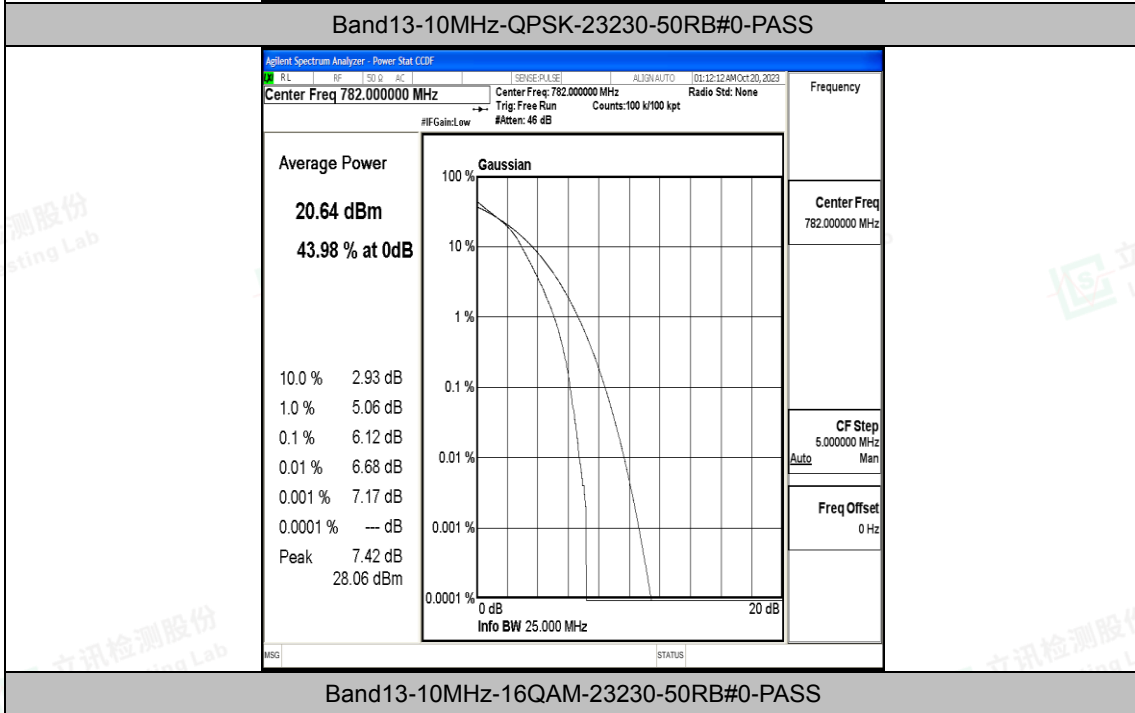
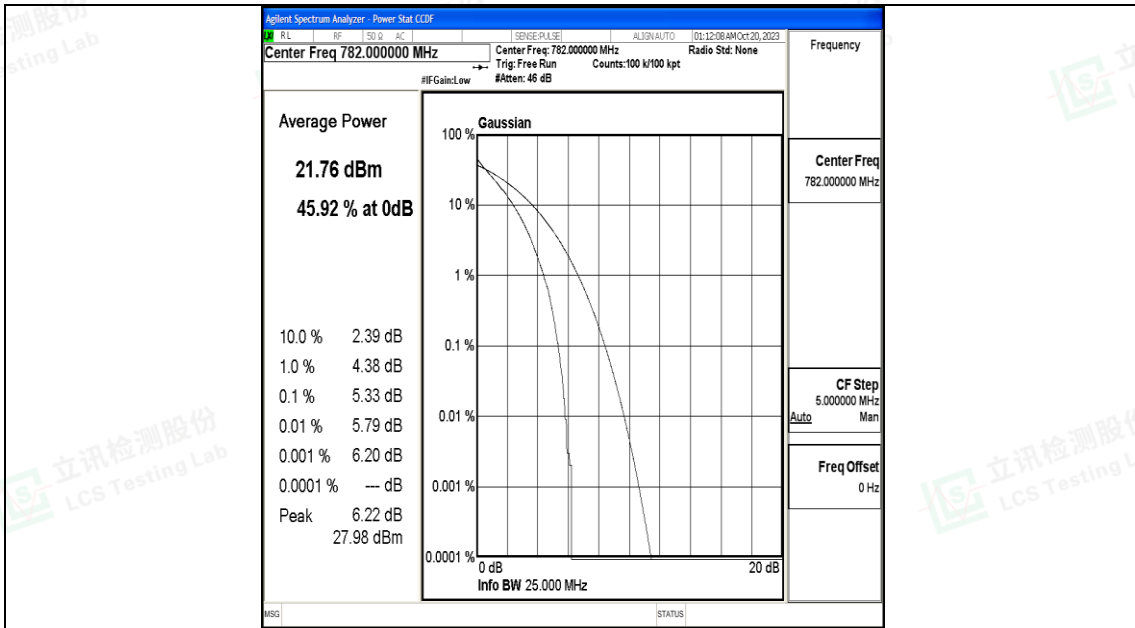


Test Graphs











J.3 26dB Bandwidth and Occupied Bandwidth

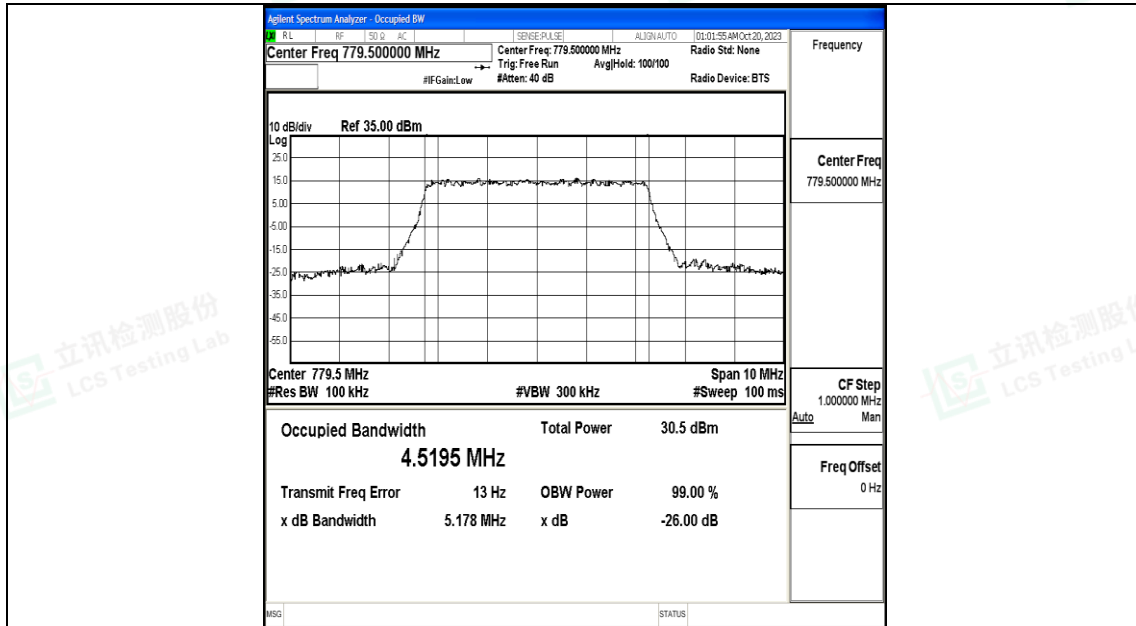
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5195	5.178	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5058	5.145	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5094	5.136	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5357	5.204	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5135	5.227	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5334	5.175	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0092	10.21	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9739	9.973	PASS

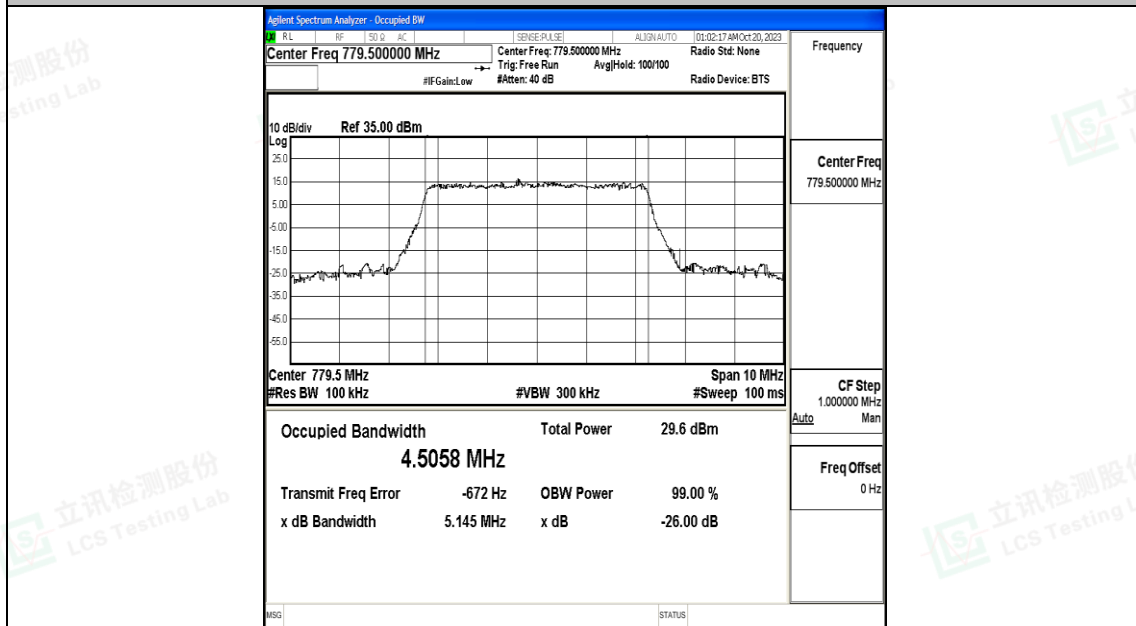




Test Graphs

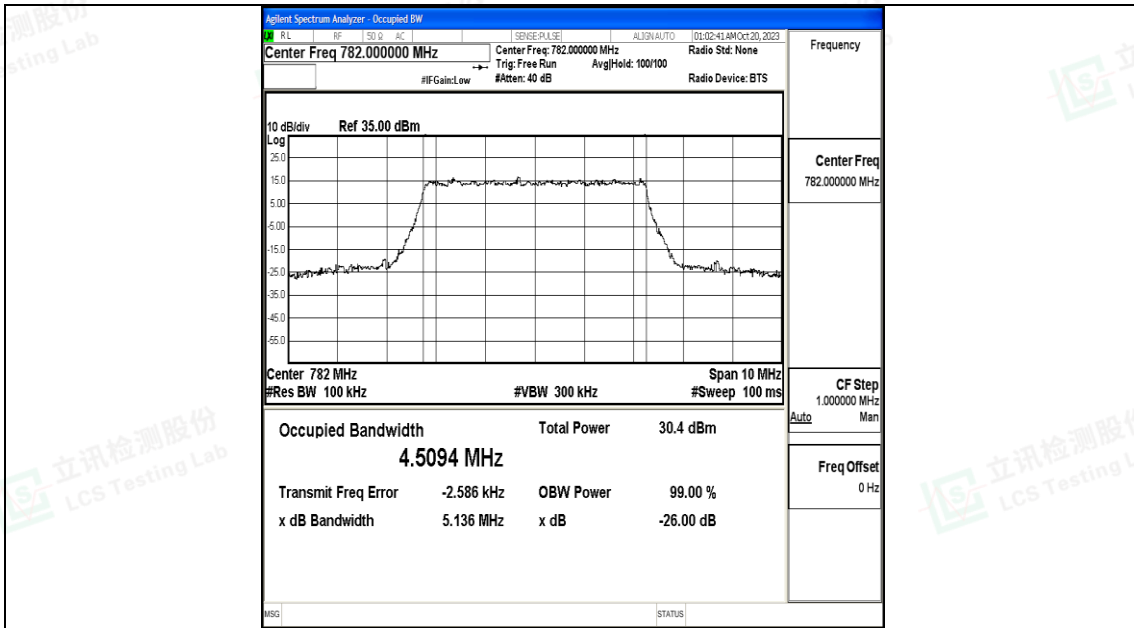


Band13-5MHz-QPSK-23205-25RB#0-PASS

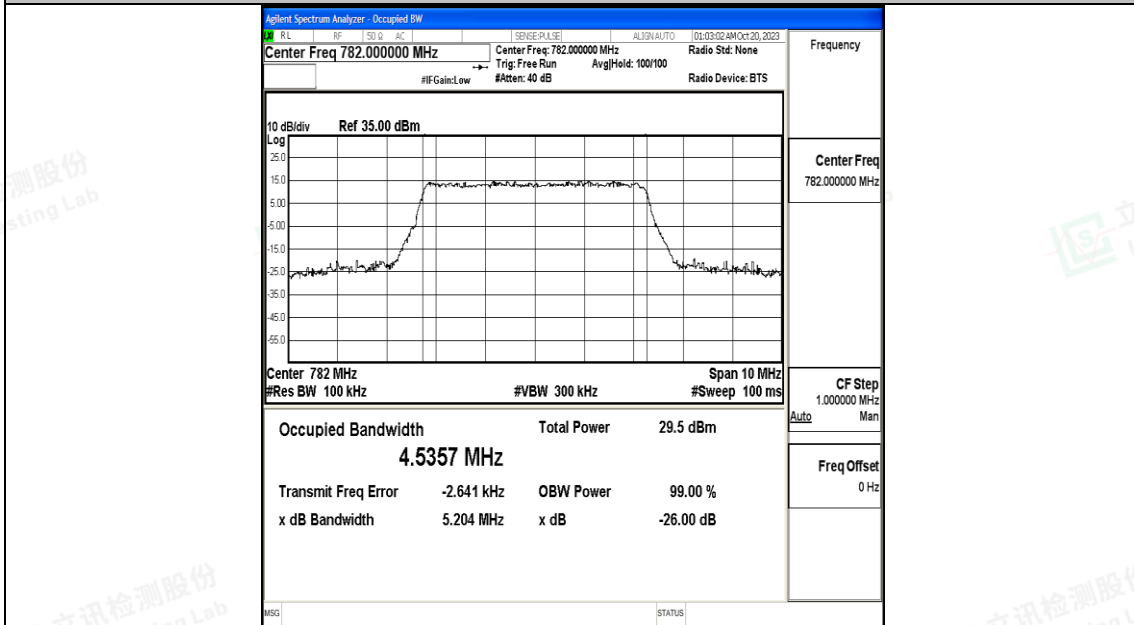


Band13-5MHz-16QAM-23205-25RB#0-PASS



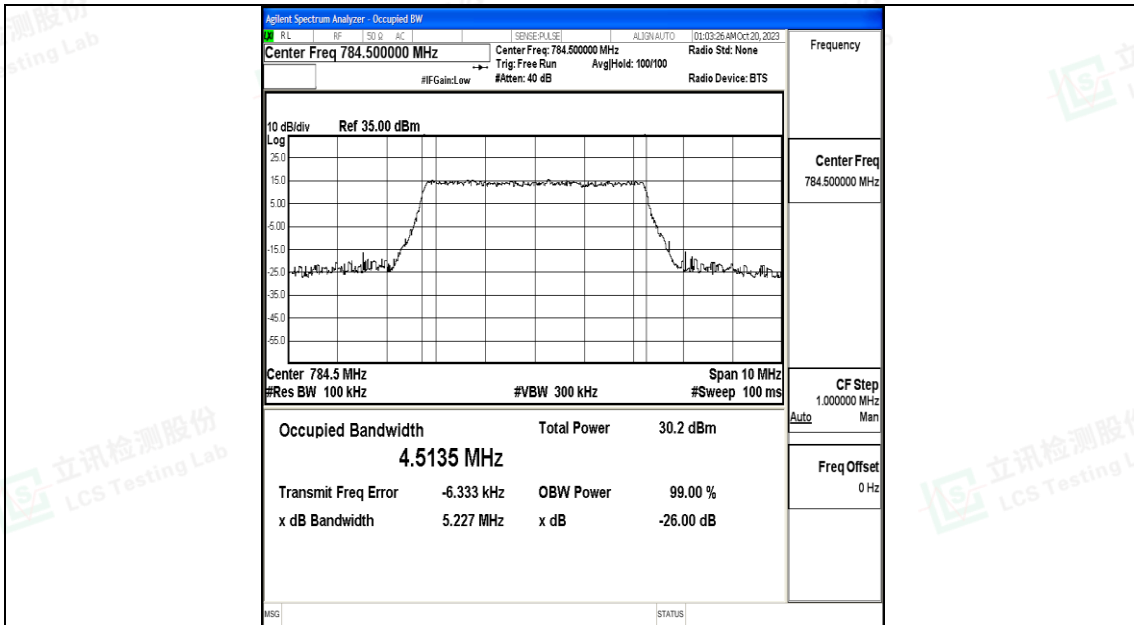


Band13-5MHz-QPSK-23230-25RB#0-PASS

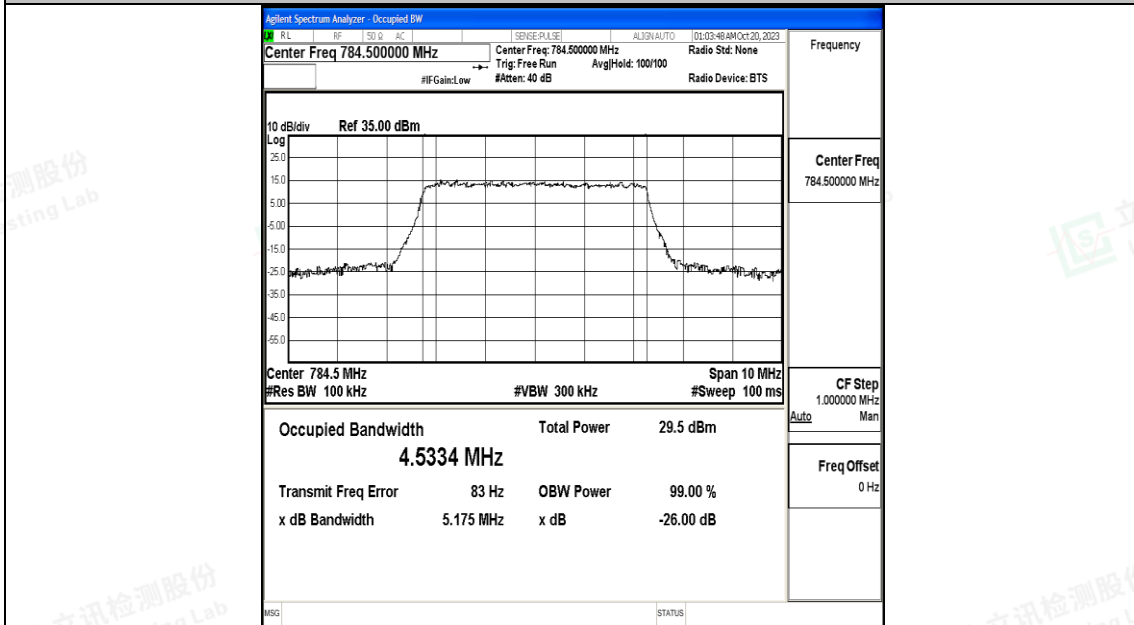


Band13-5MHz-16QAM-23230-25RB#0-PASS



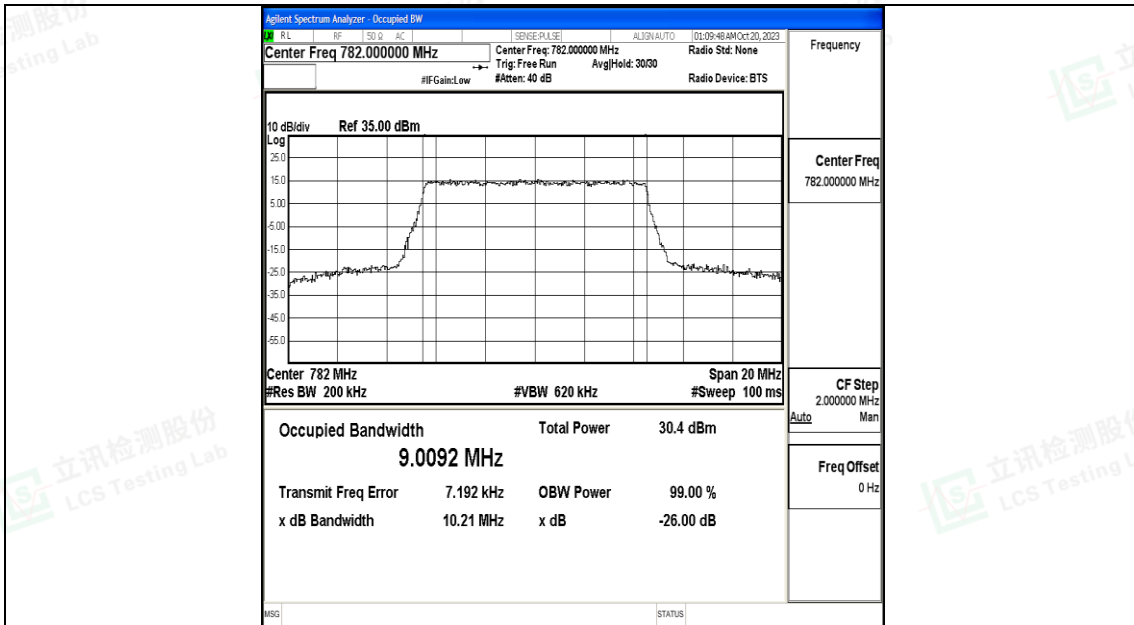


Band13-5MHz-QPSK-23255-25RB#0-PASS

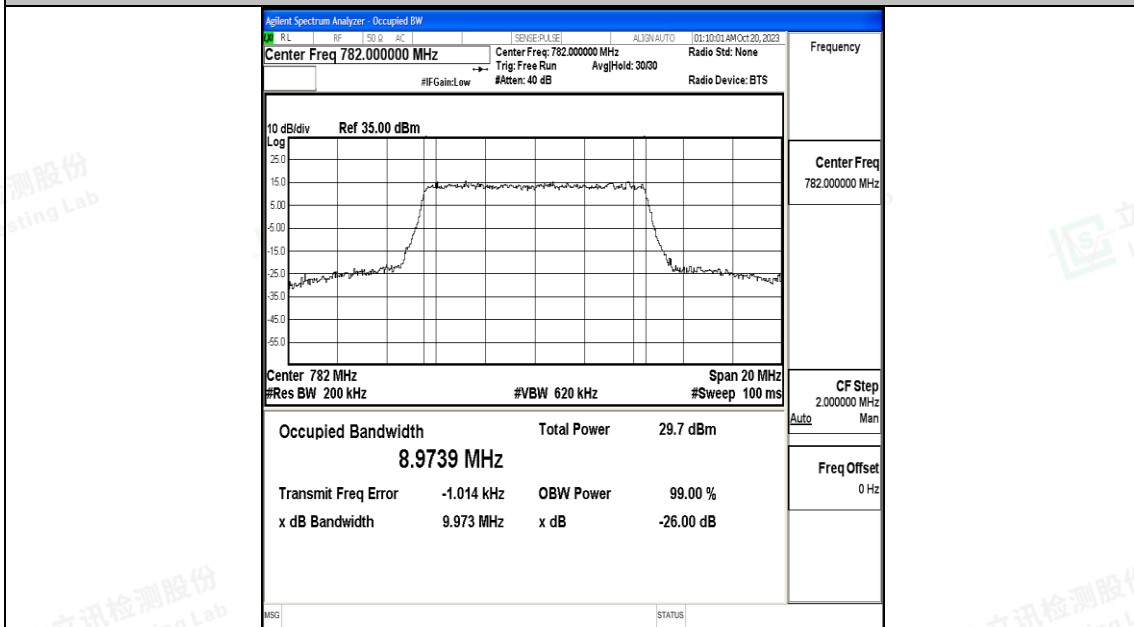


Band13-5MHz-16QAM-23255-25RB#0-PASS





Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS



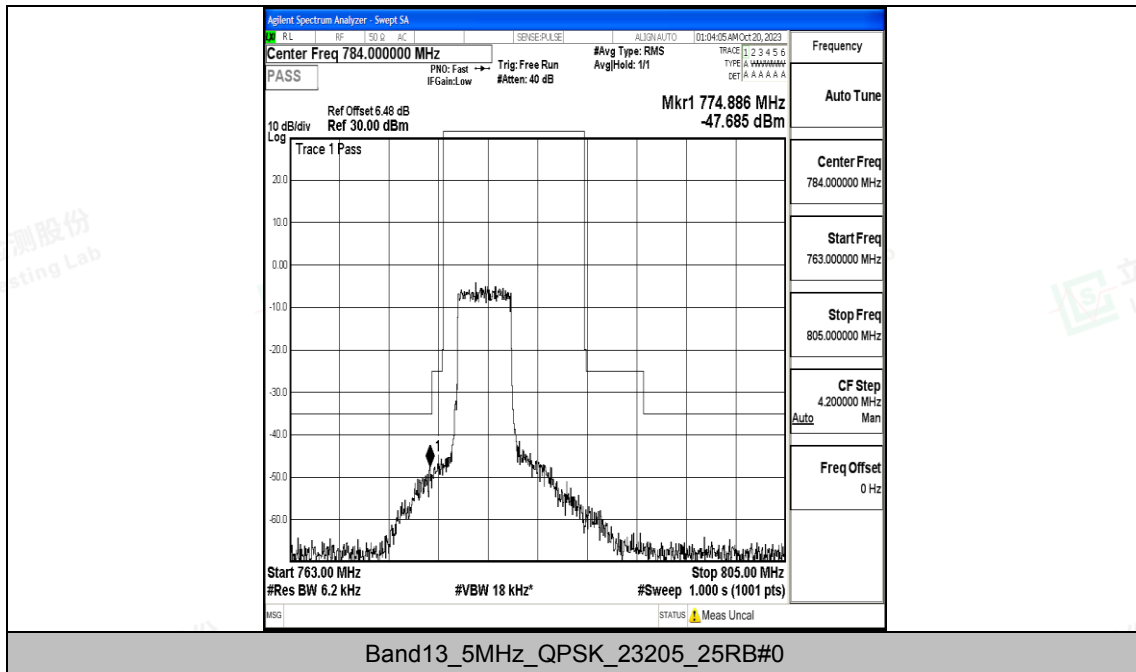


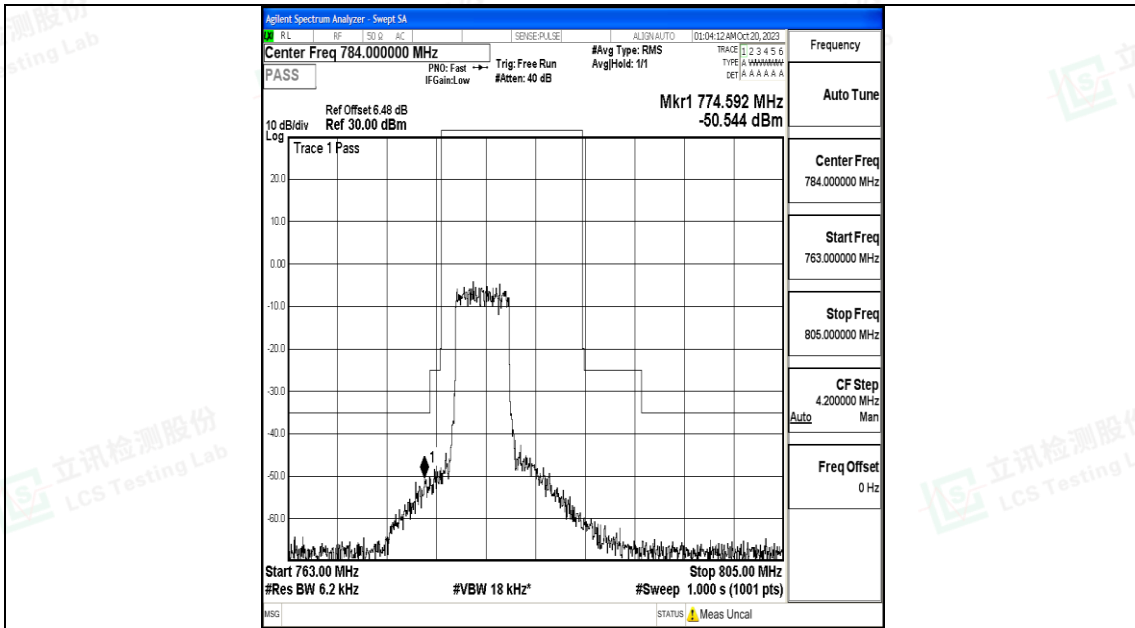
J.4 Band Edge

Test Result

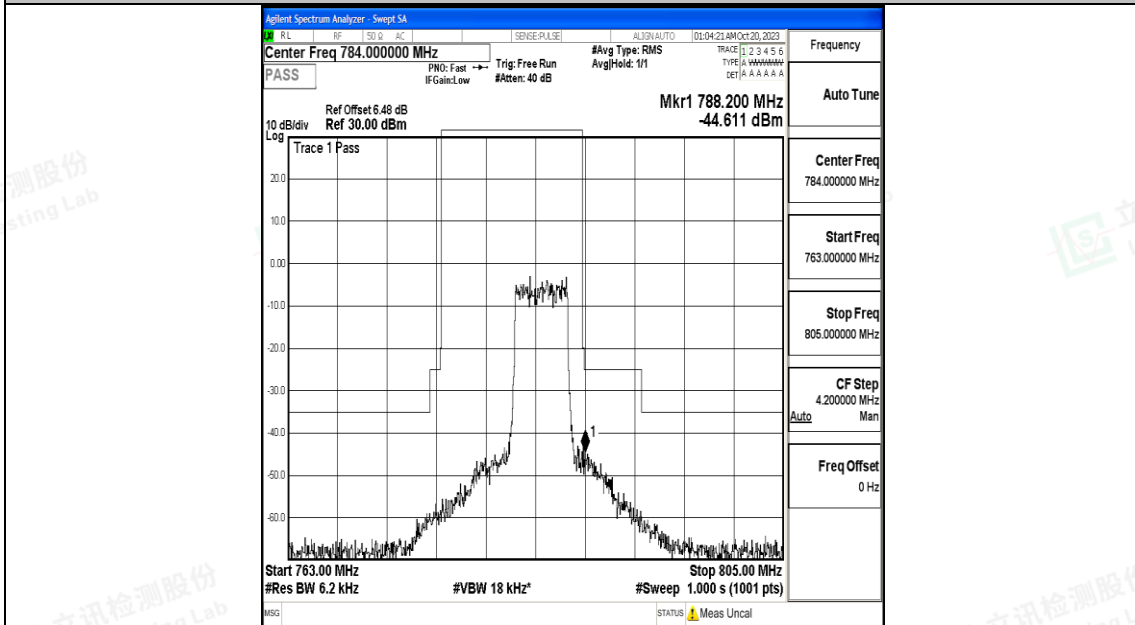
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.89	-47.69	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.59	-50.54	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.20	-44.61	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.54	-45.19	PASS
Band13	10MHz	QPSK	23230	50RB#0	773.79	-49.52	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.76	-49.79	PASS

Test Graphs



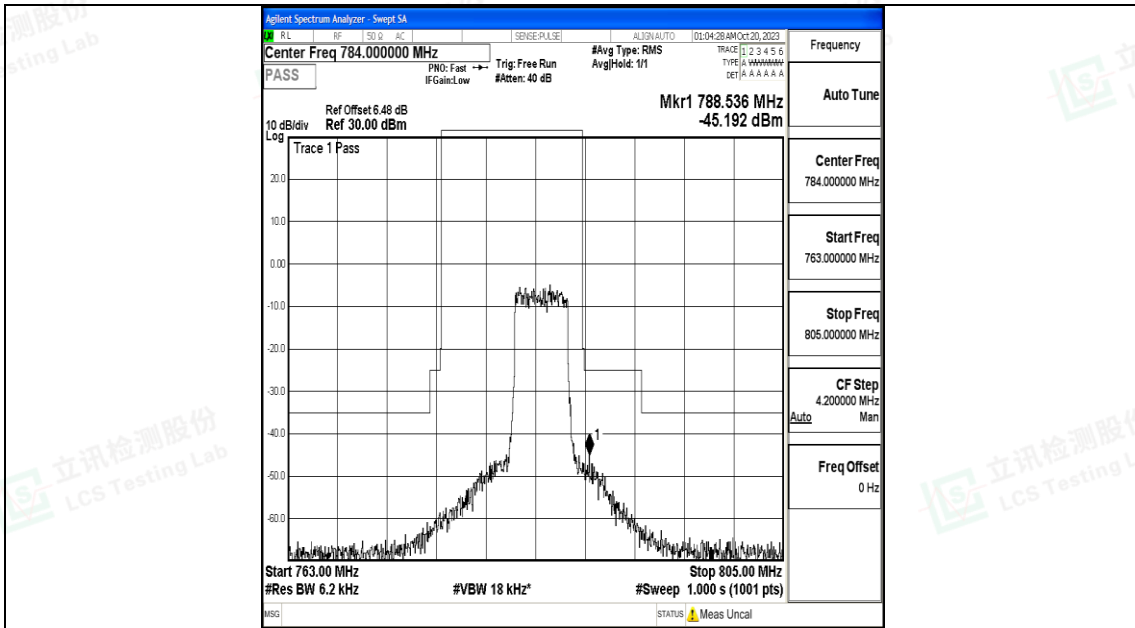


Band13_5MHz_16QAM_23205_25RB#0

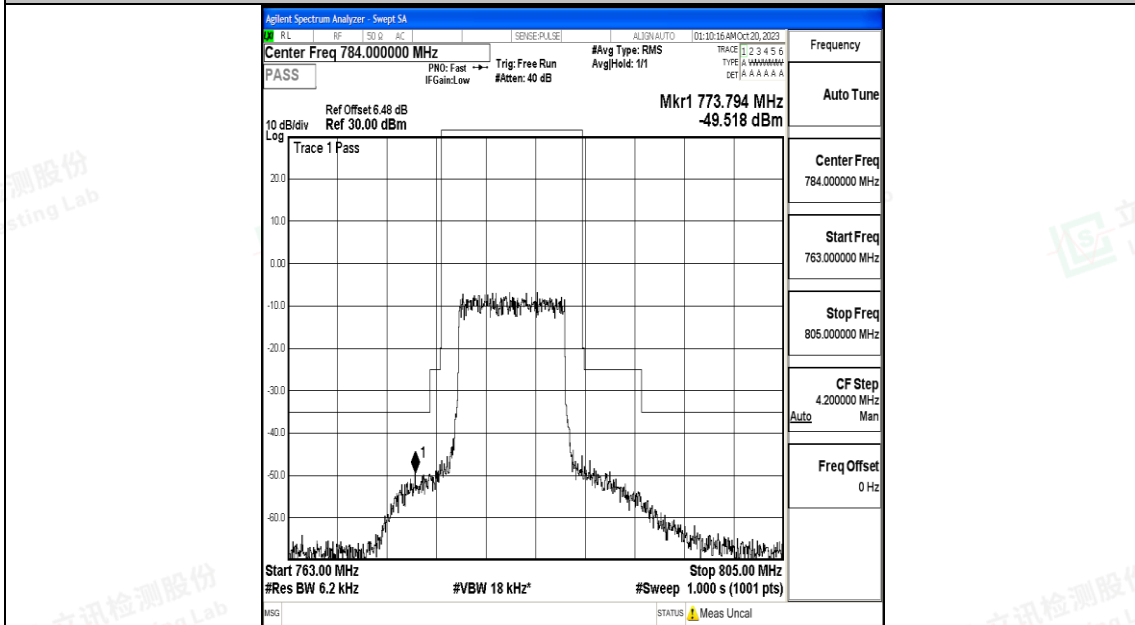


Band13_5MHz_QPSK_23255_25RB#0



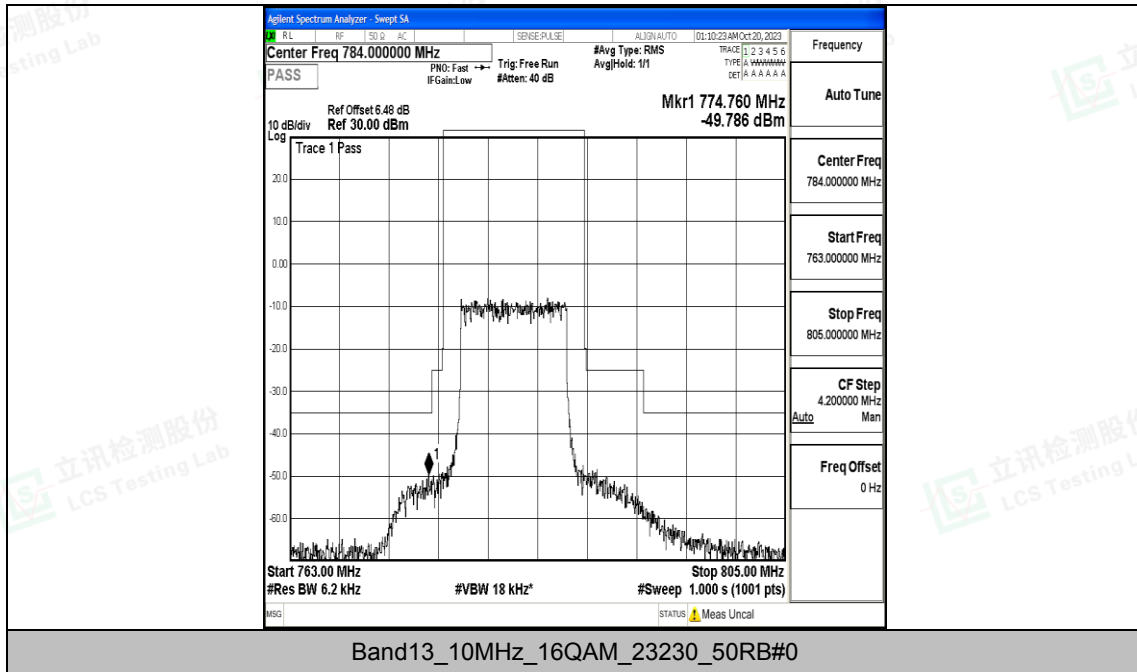


Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0





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J.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-56.13	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-53.09	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-62.57	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-44.40	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-44.68	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-58.86	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-54.33	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-62.54	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-43.35	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-44.17	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.58	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-53.38	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-62.61	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-43.80	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-44.37	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-58.12	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-55.11	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.31	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-44.58	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-44.62	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-55.24	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-52.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-62.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-43.28	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-44.38	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-59.11	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-54.28	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-43.44	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-44.22	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-58.31	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-51.86	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-62.66	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-43.65	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-45.00	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-62.22	PASS

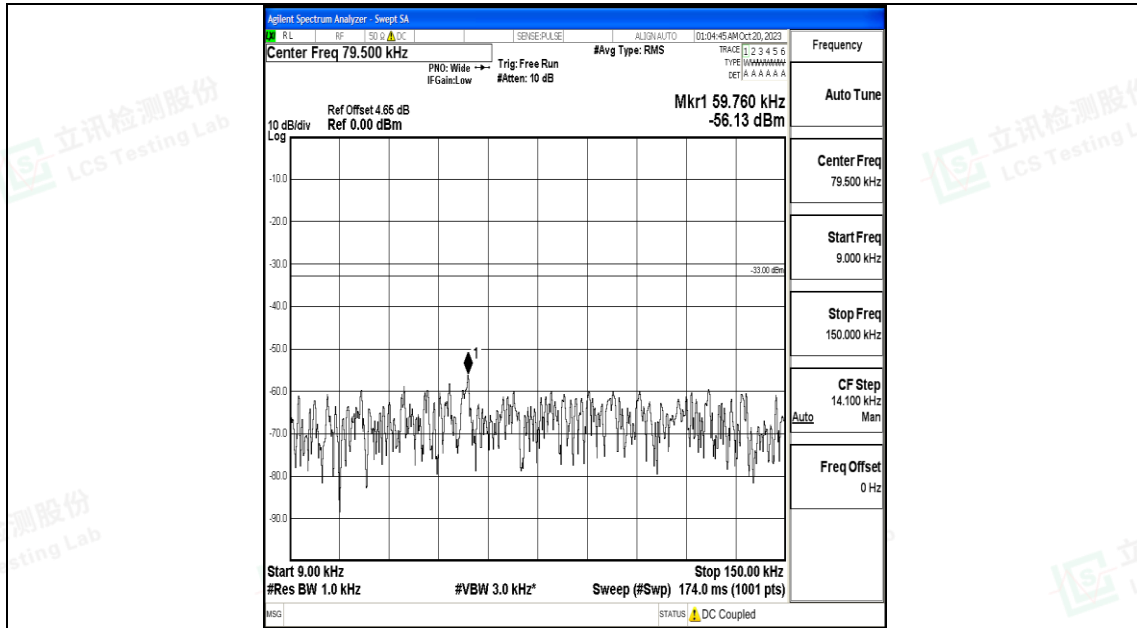


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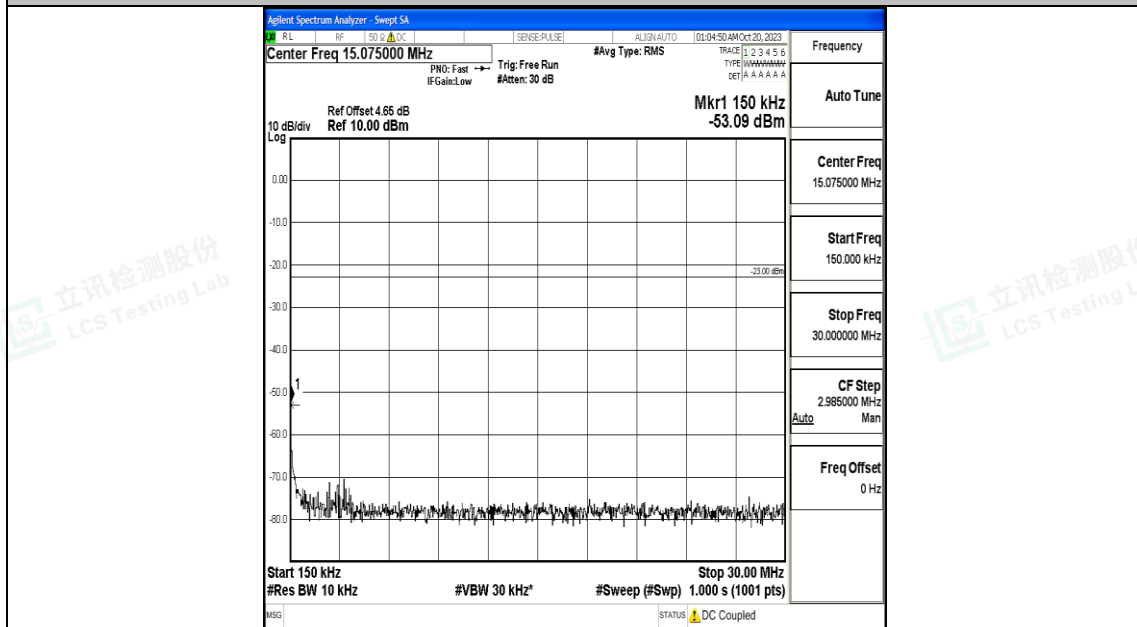


Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-44.24	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-44.52	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-56.76	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-51.81	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-62.64	PASS

Test Graphs

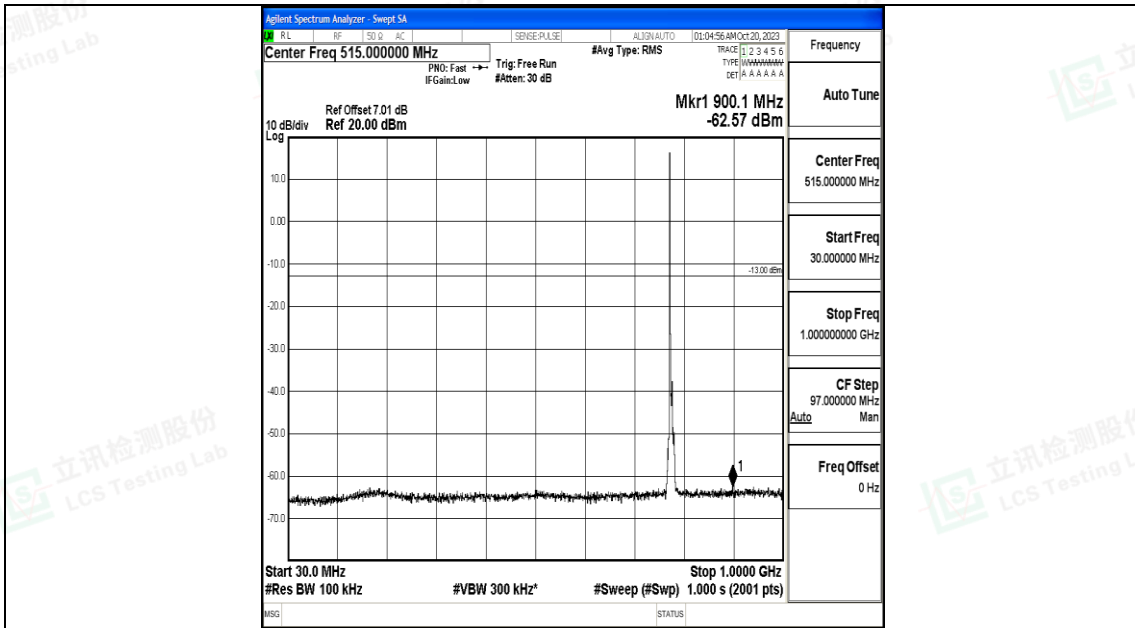


Band13_5MHz_QPSK_23205_1RB#0_0.009~0.15_0.009~0.15

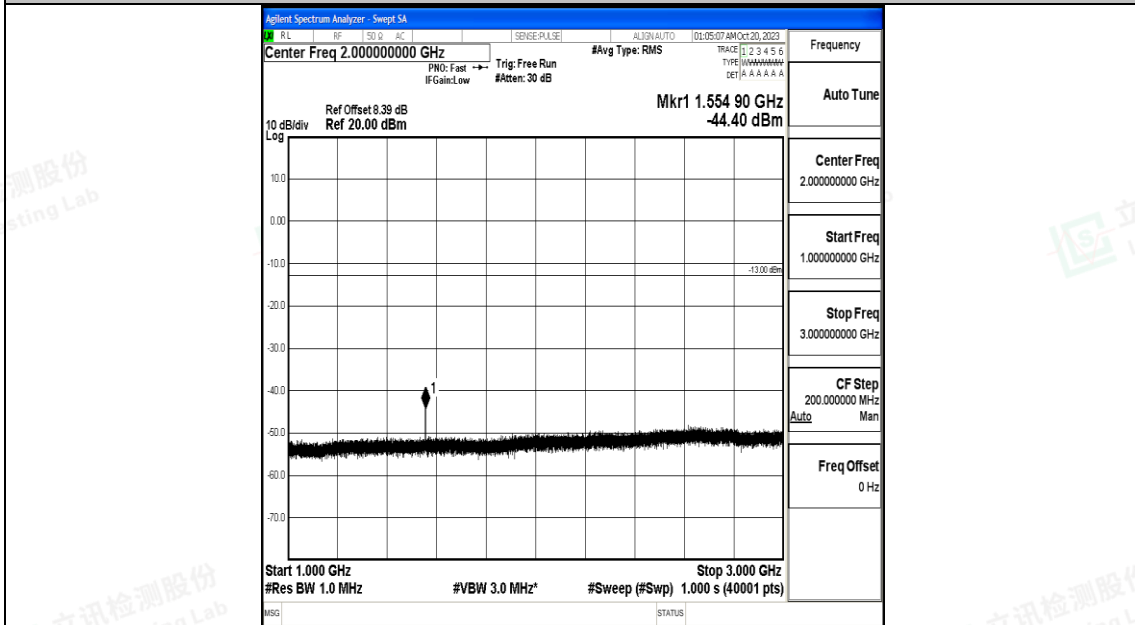


Band13_5MHz_QPSK_23205_1RB#0_0.15~30_0.15~30



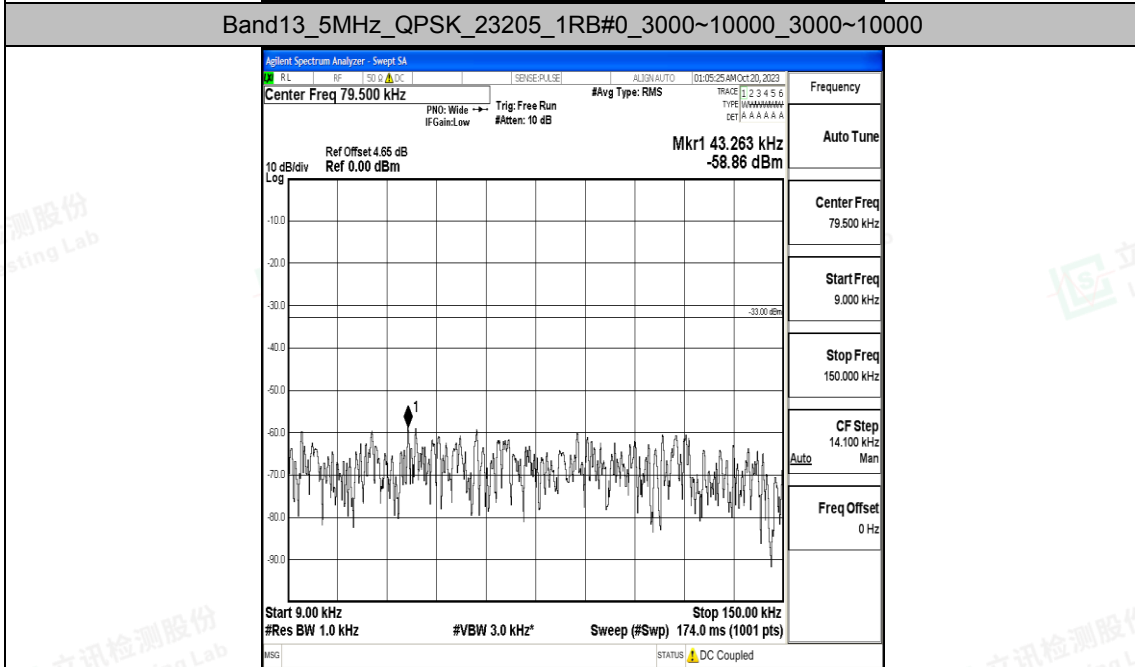
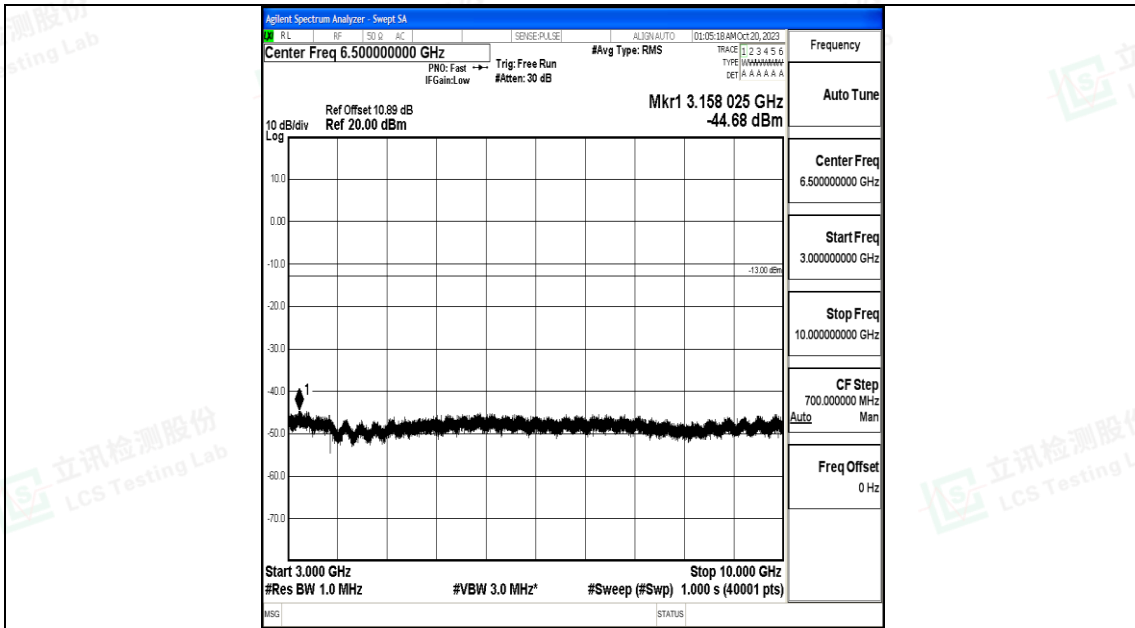


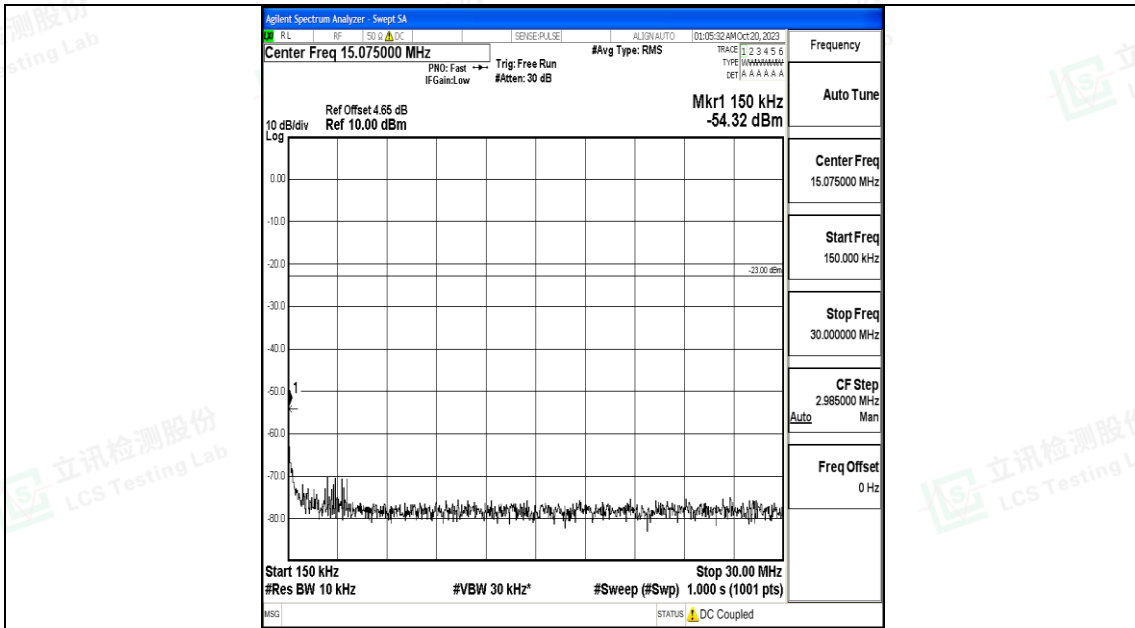
Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000



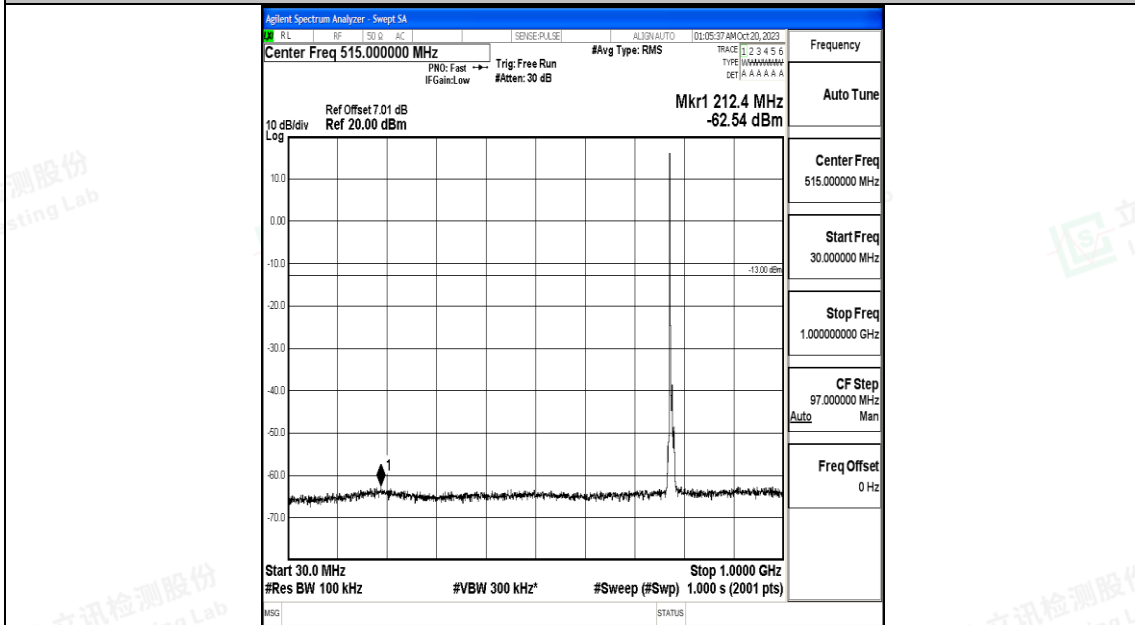
Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000





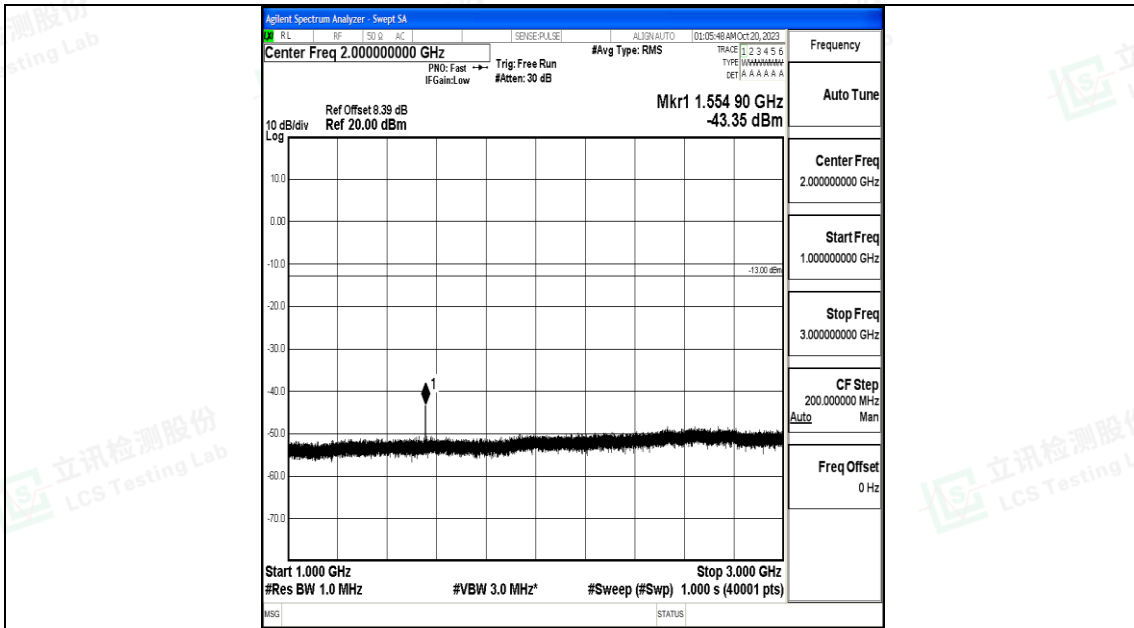


Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~30

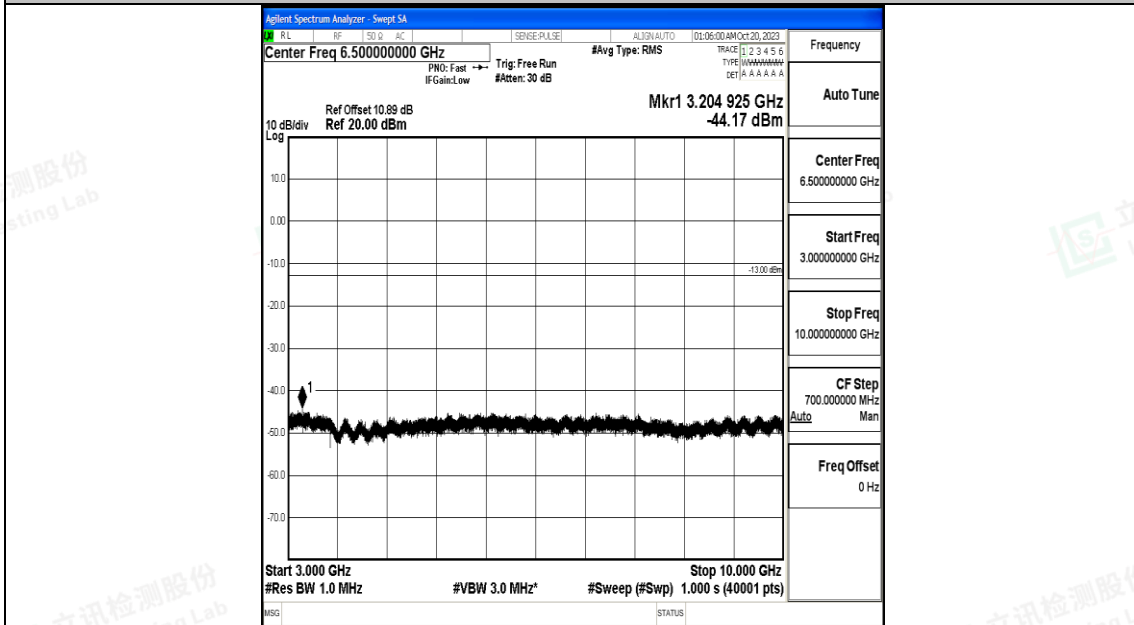


Band13_5MHz_16QAM_23205_1RB#0_30~1000_30~1000



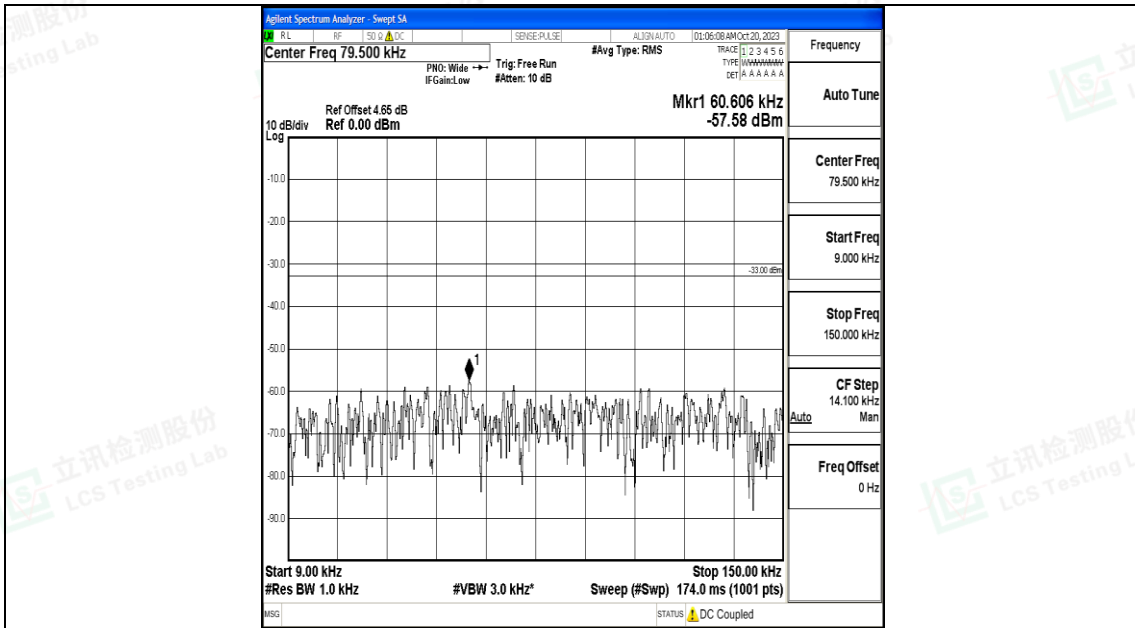


Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000

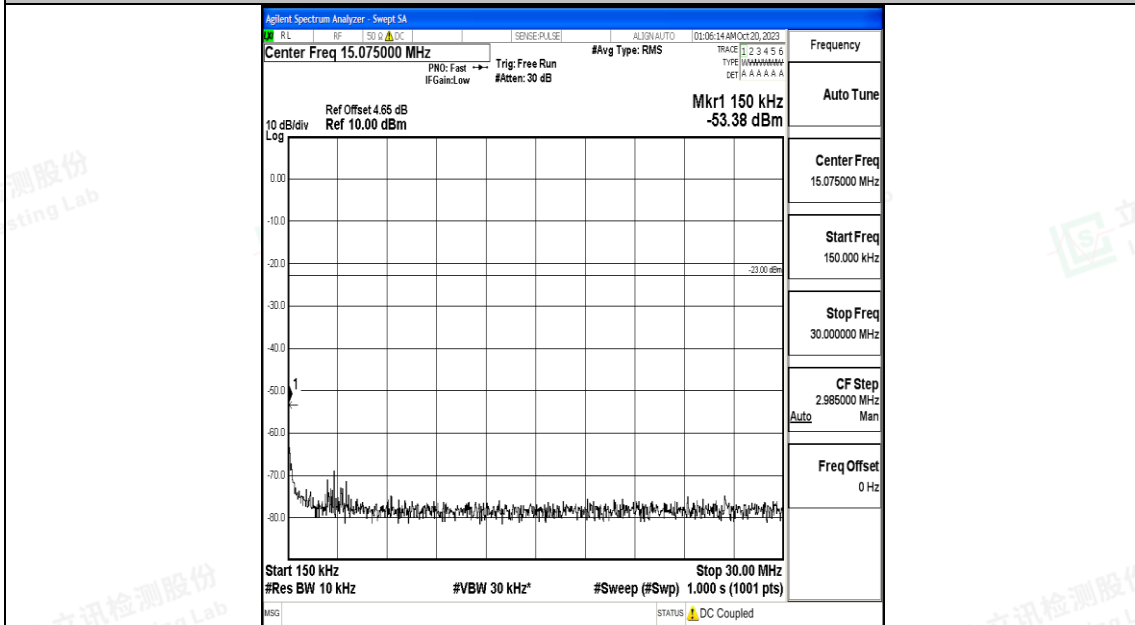


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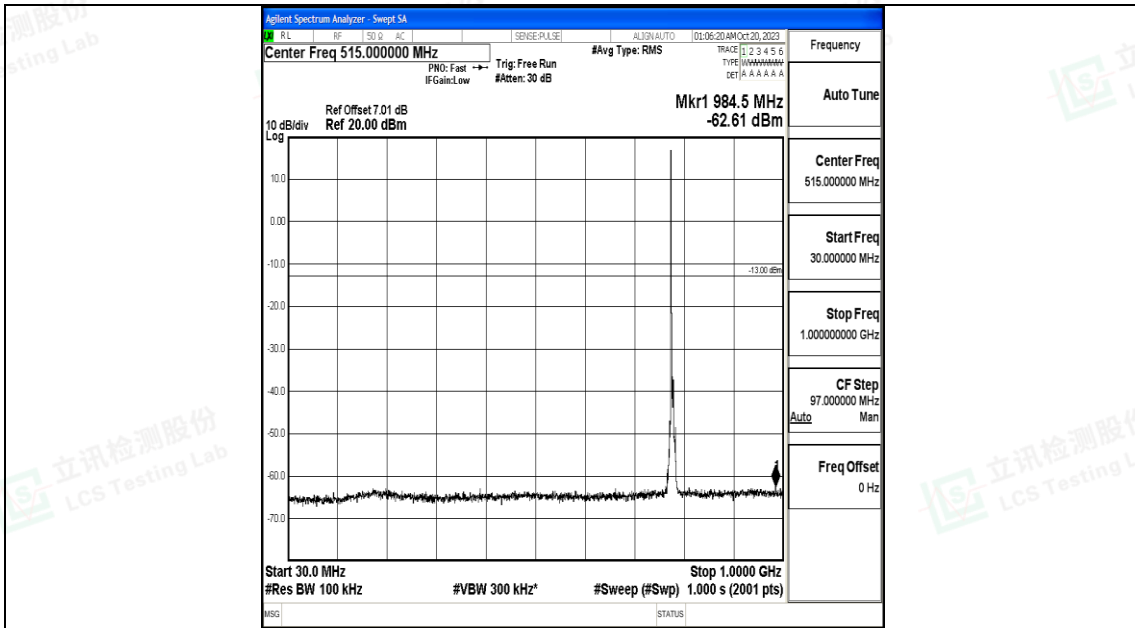


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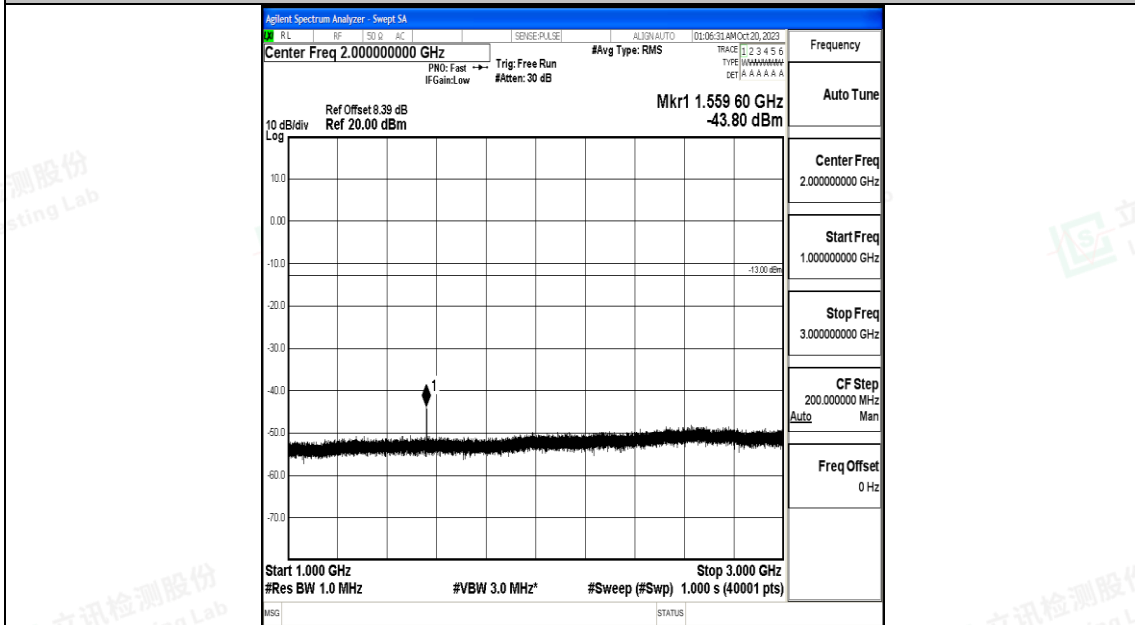


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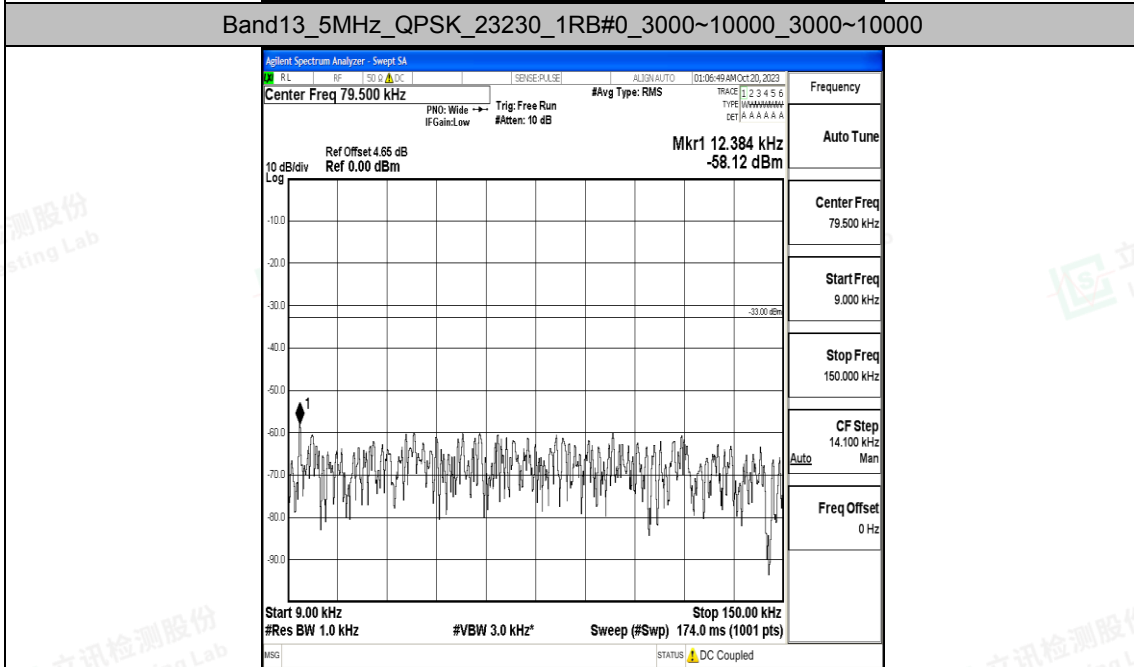
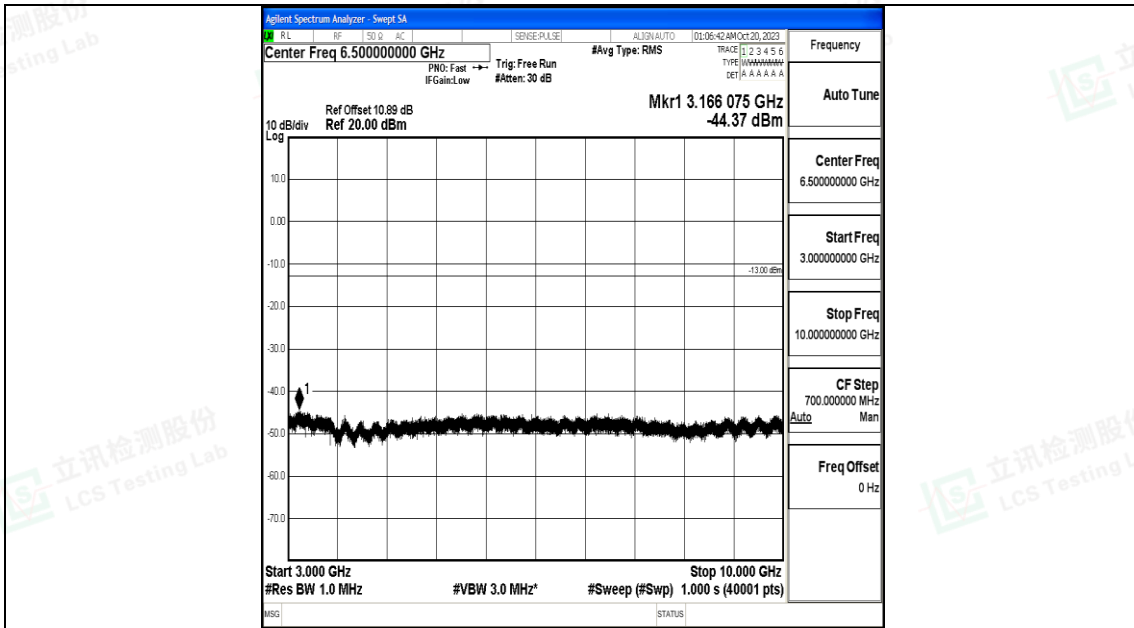


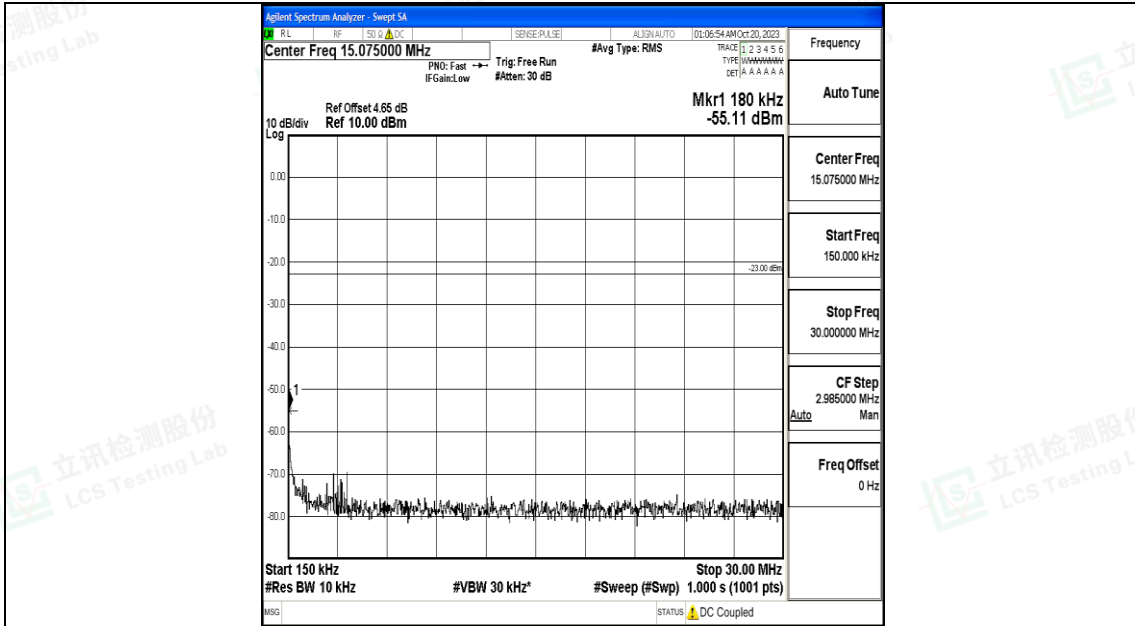
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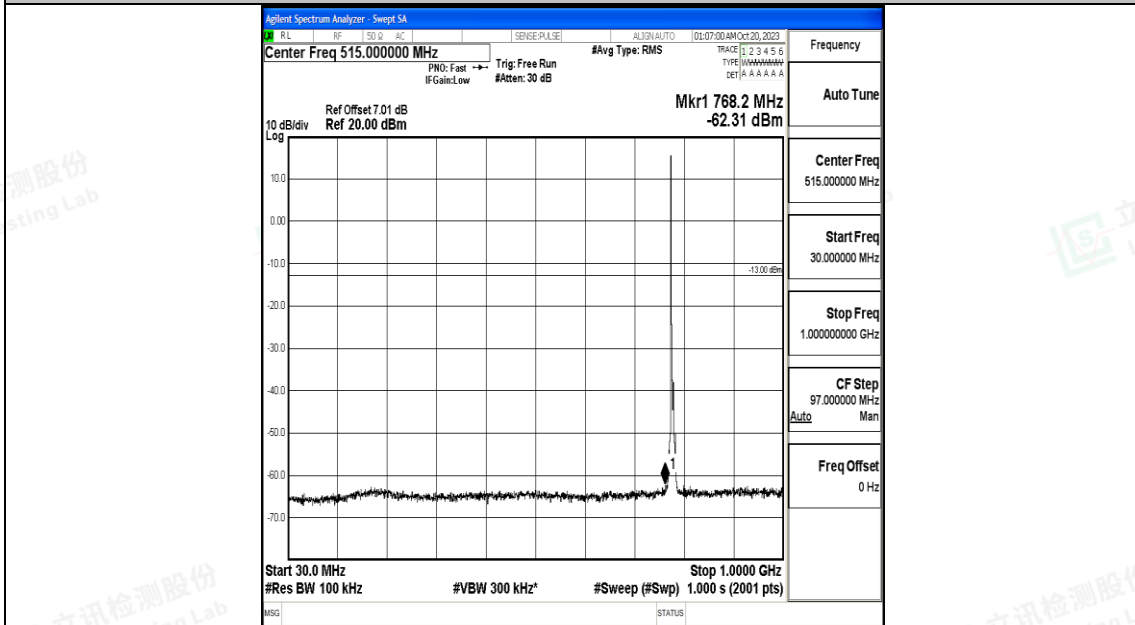
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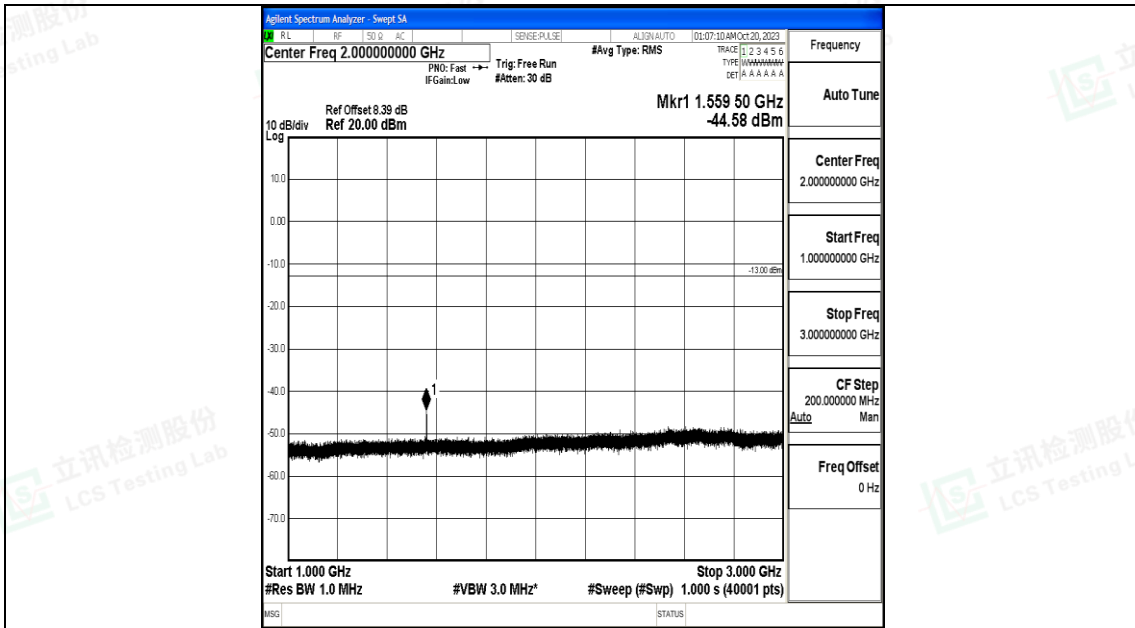


Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

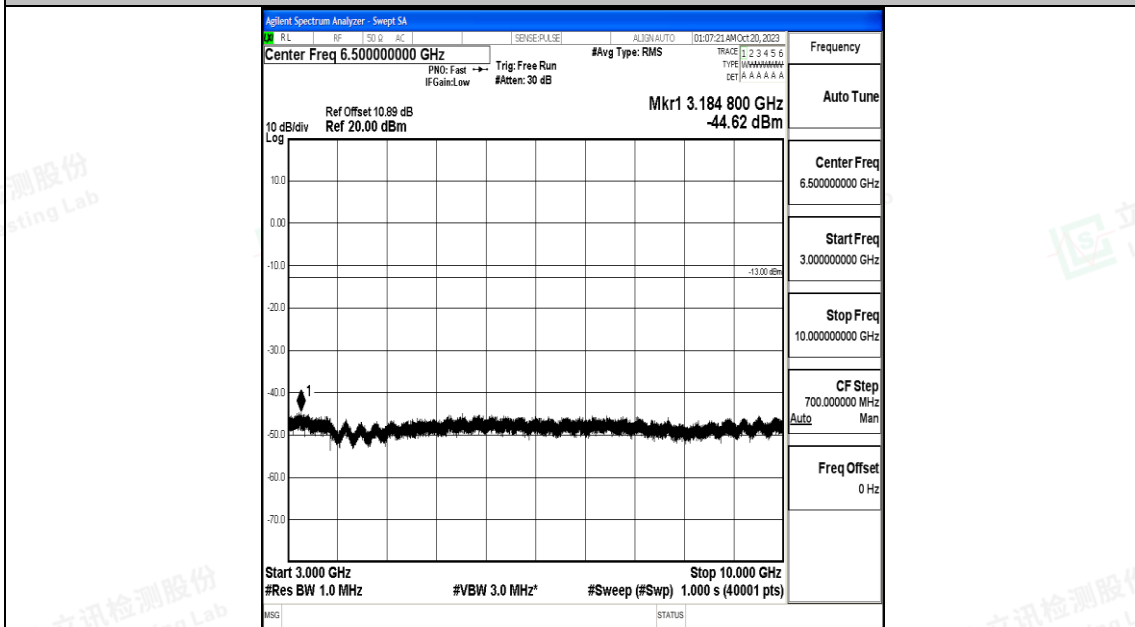


Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000



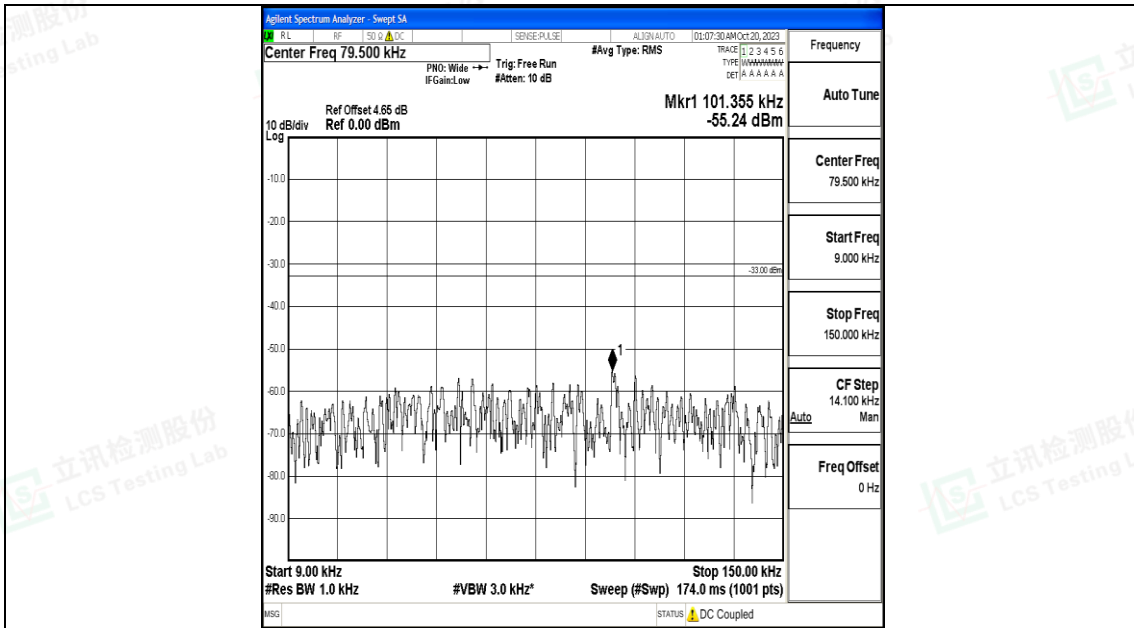


Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000

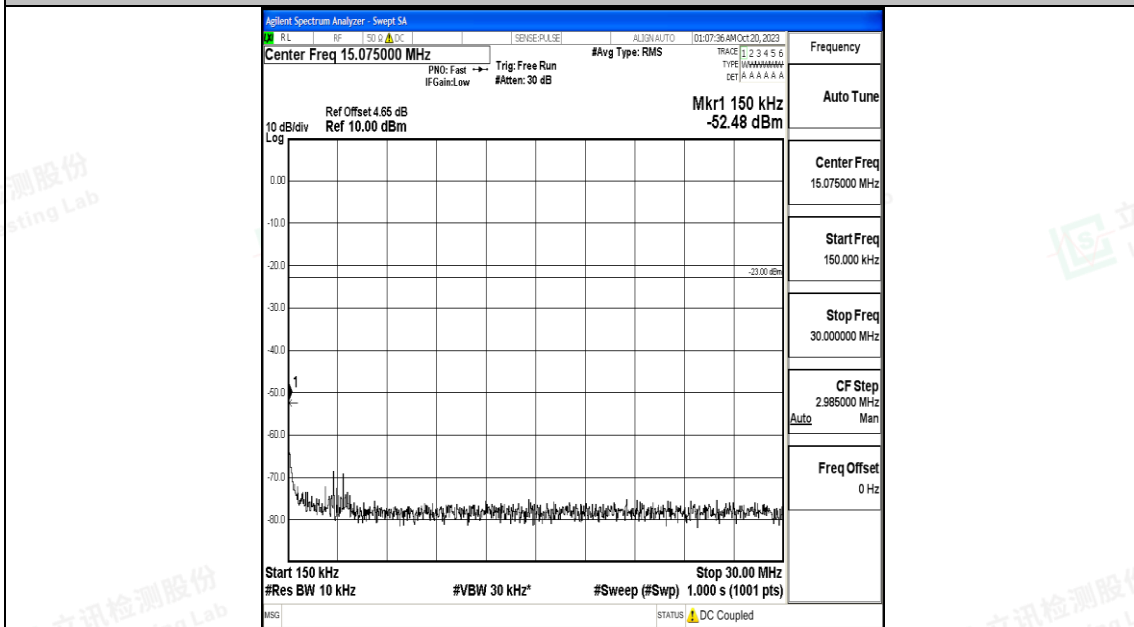


Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000



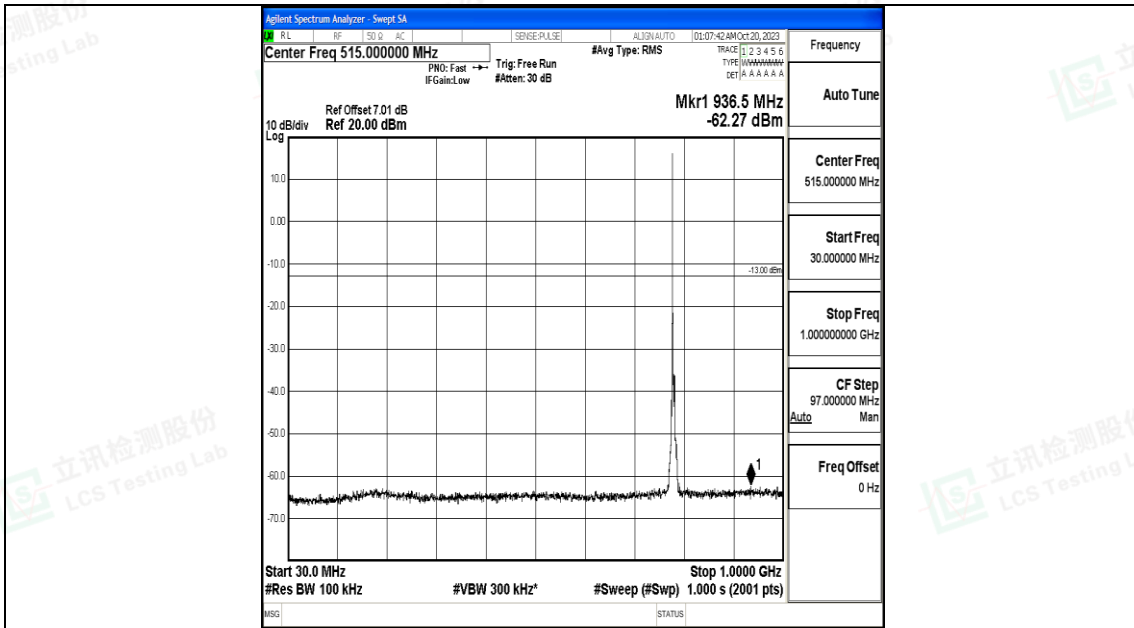


Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15

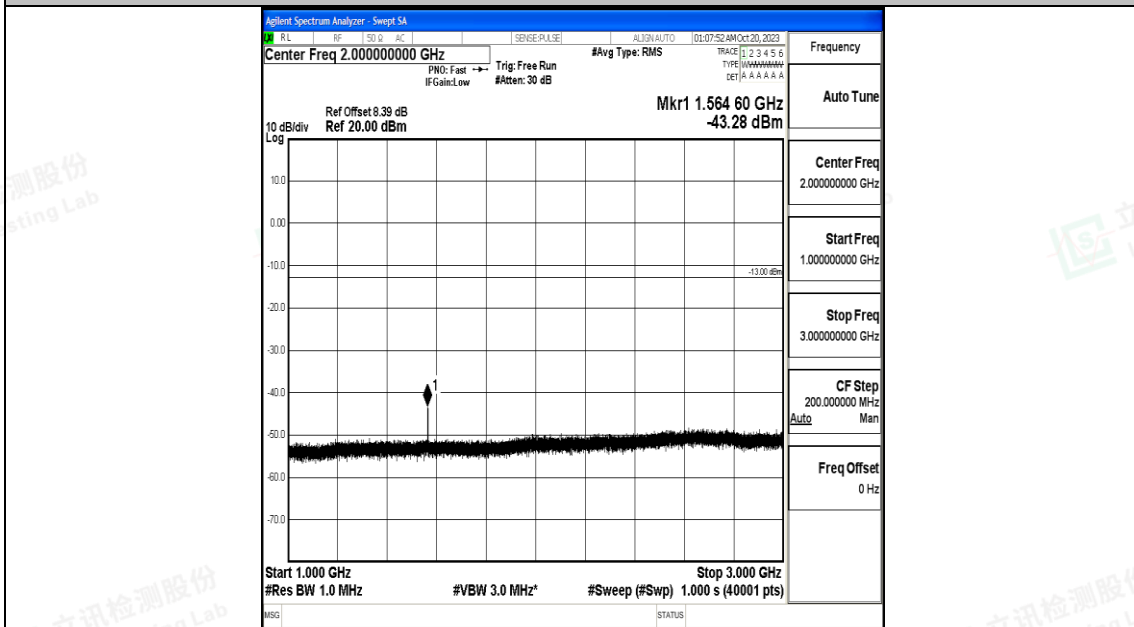


Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30



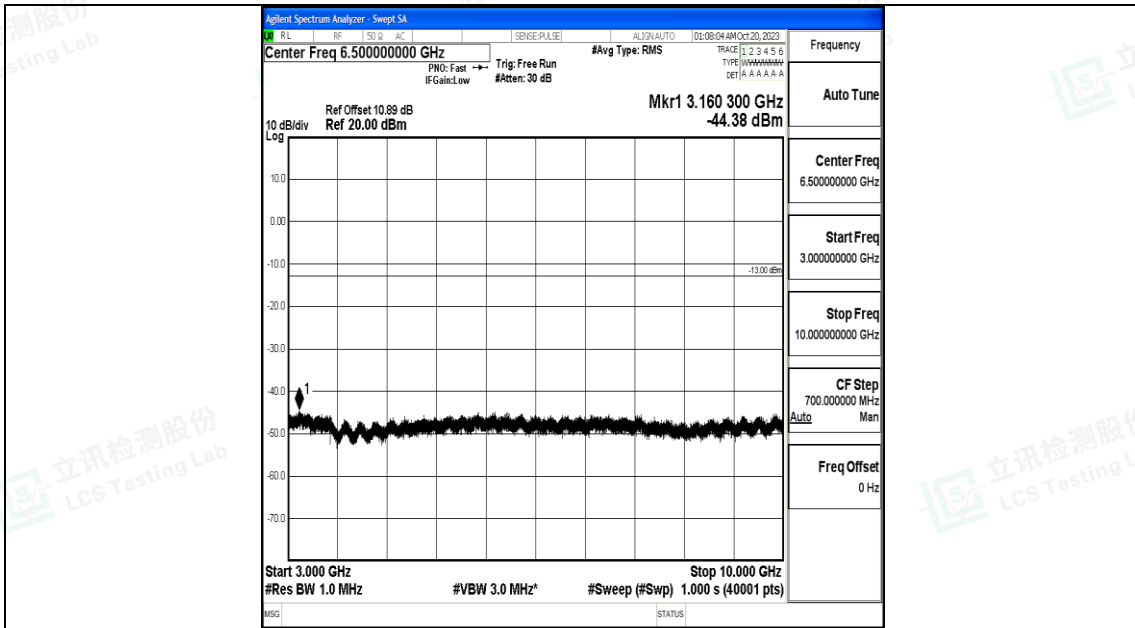


Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

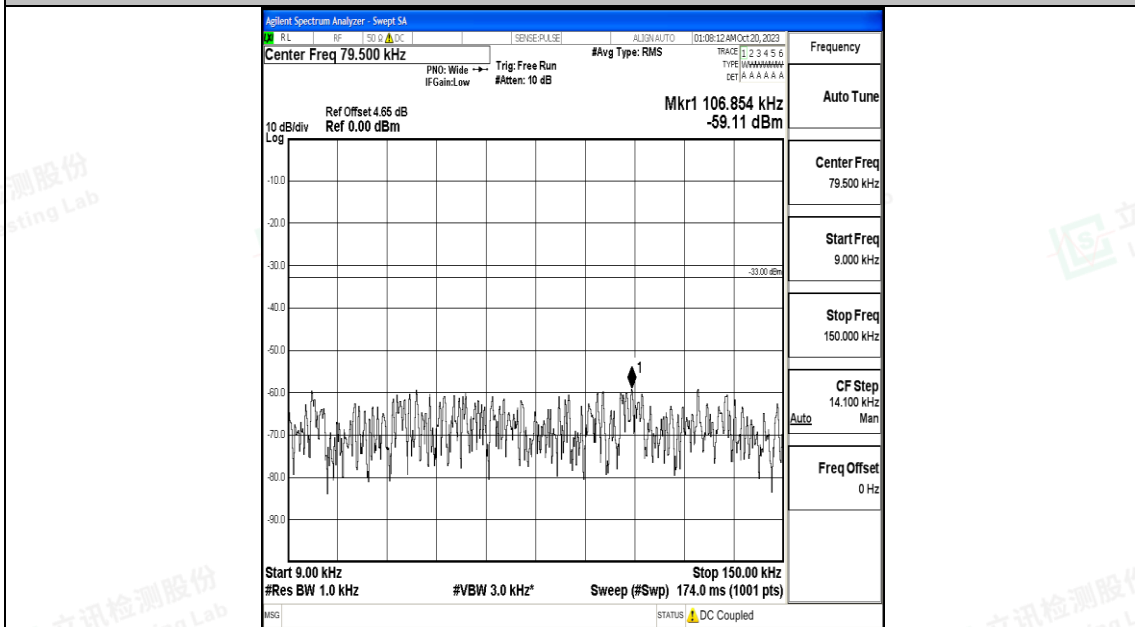


Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000



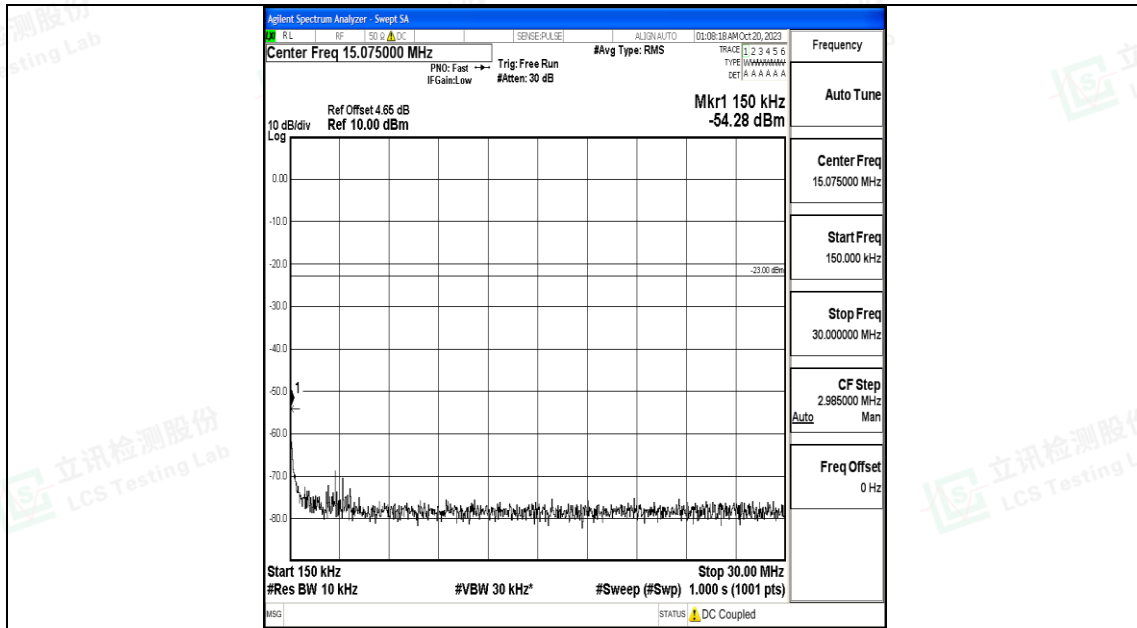


Band13_5MHz_QPSK_23255_1RB#0_3000~10000_3000~10000

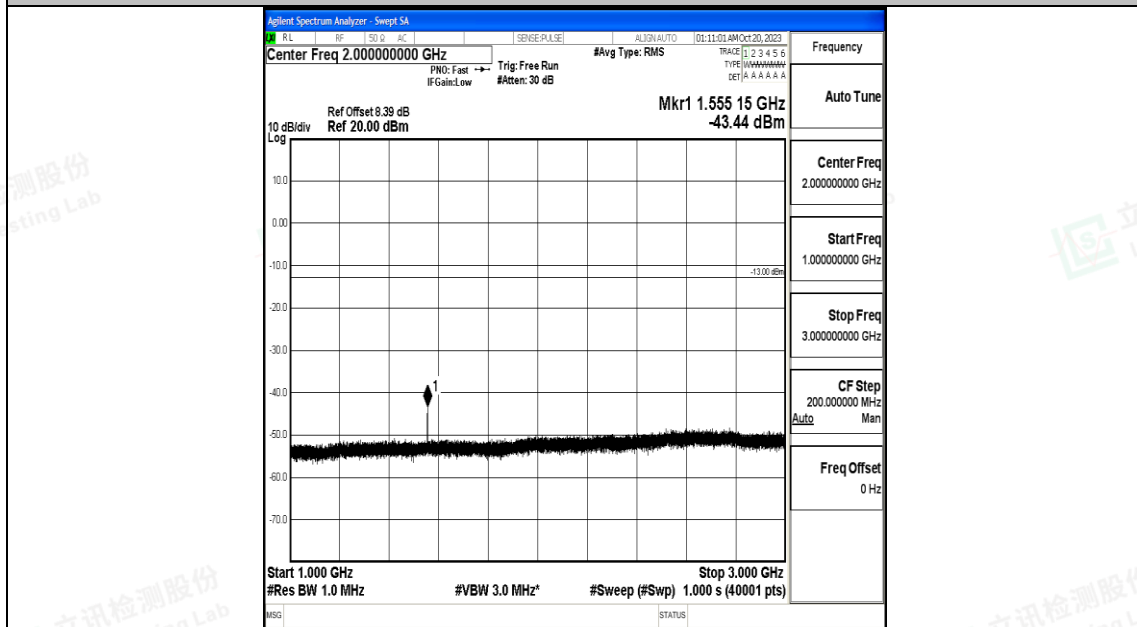


Band13_5MHz_16QAM_23255_1RB#0_0.009~0.15_0.009~0.15



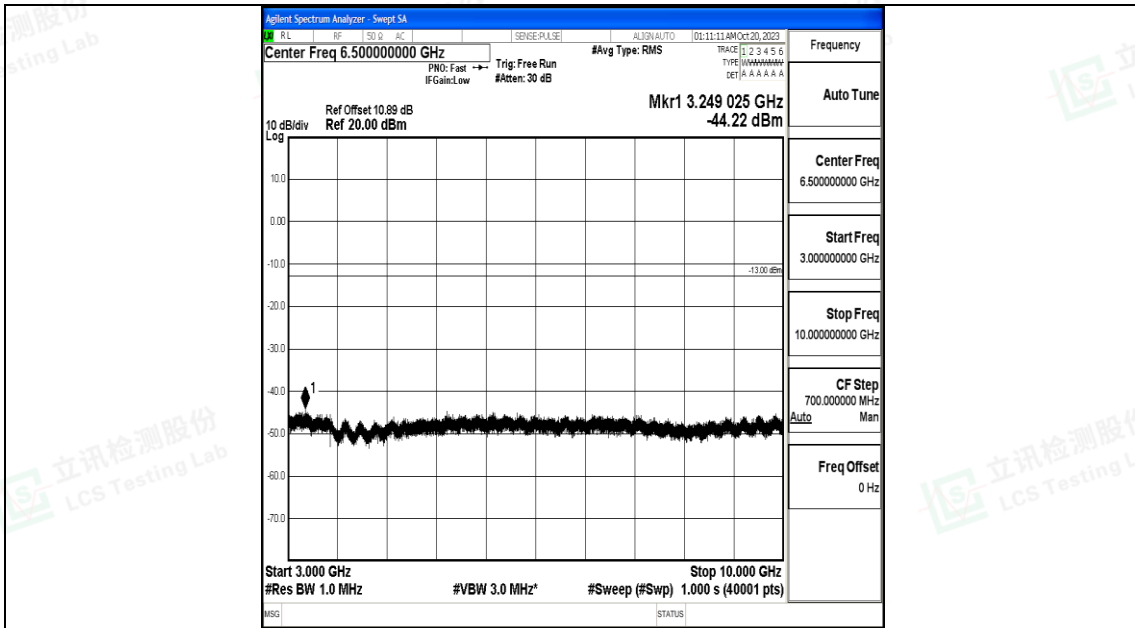


Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~30

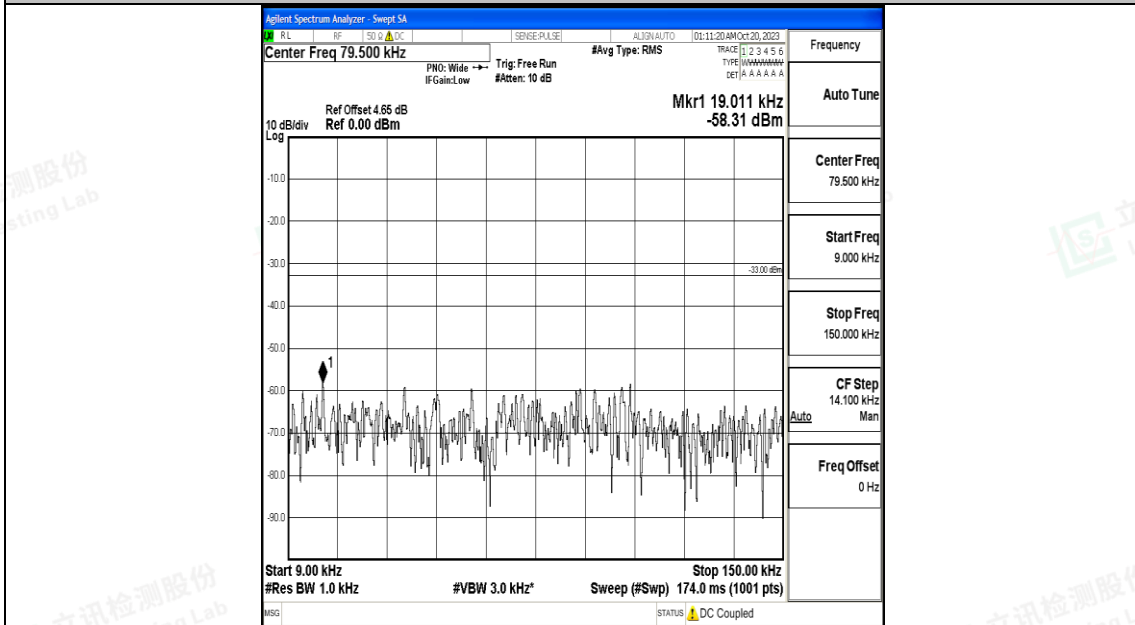


Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



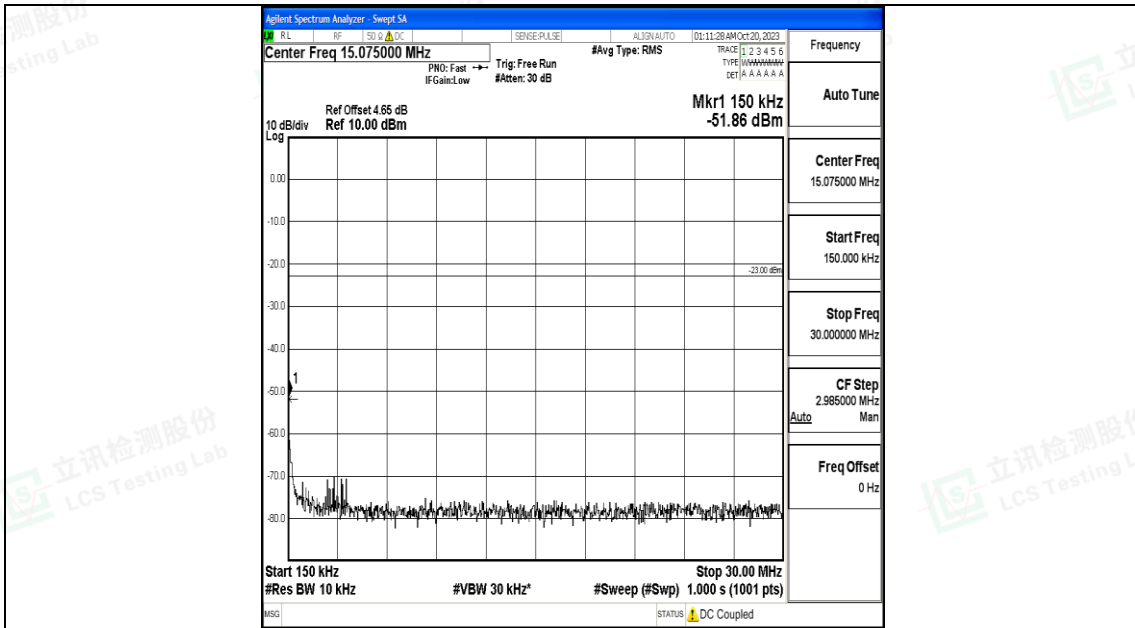


Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

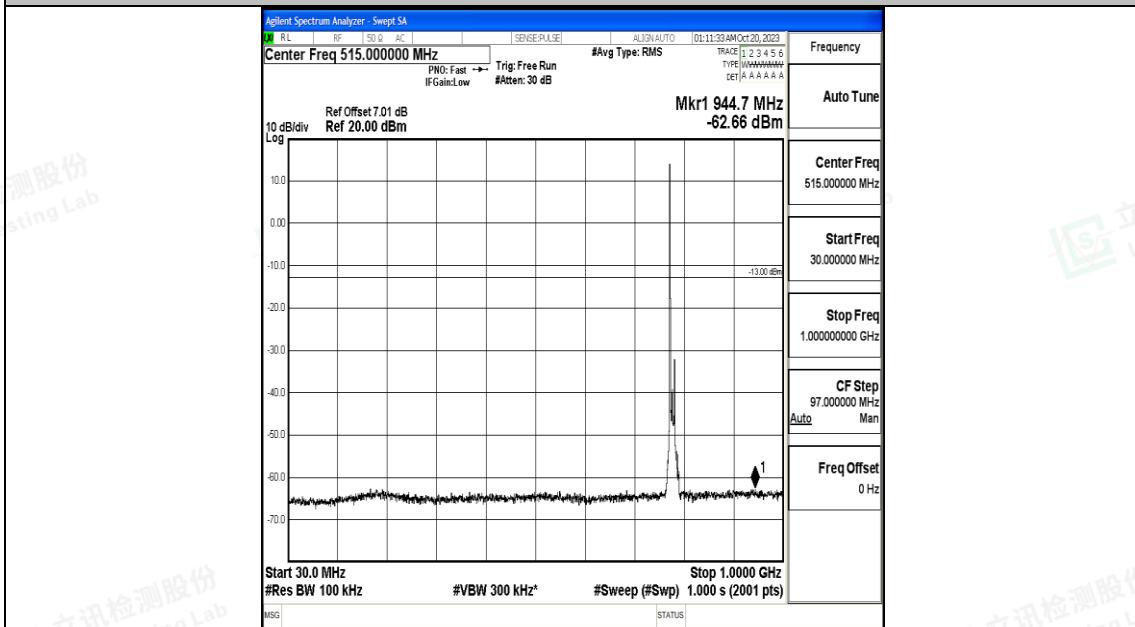


Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



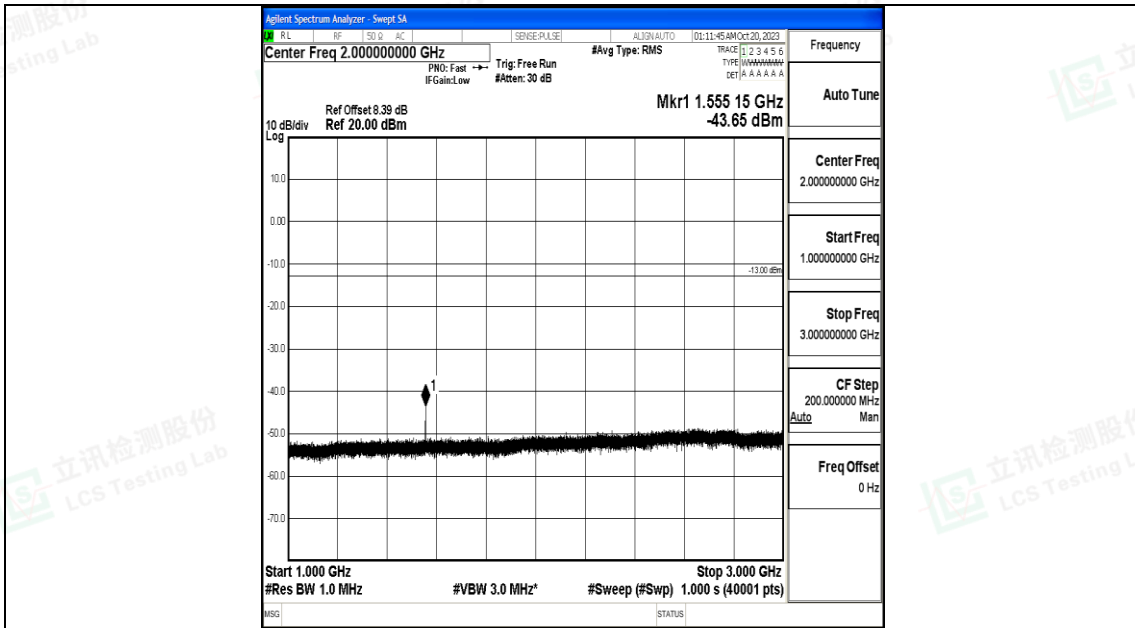


Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

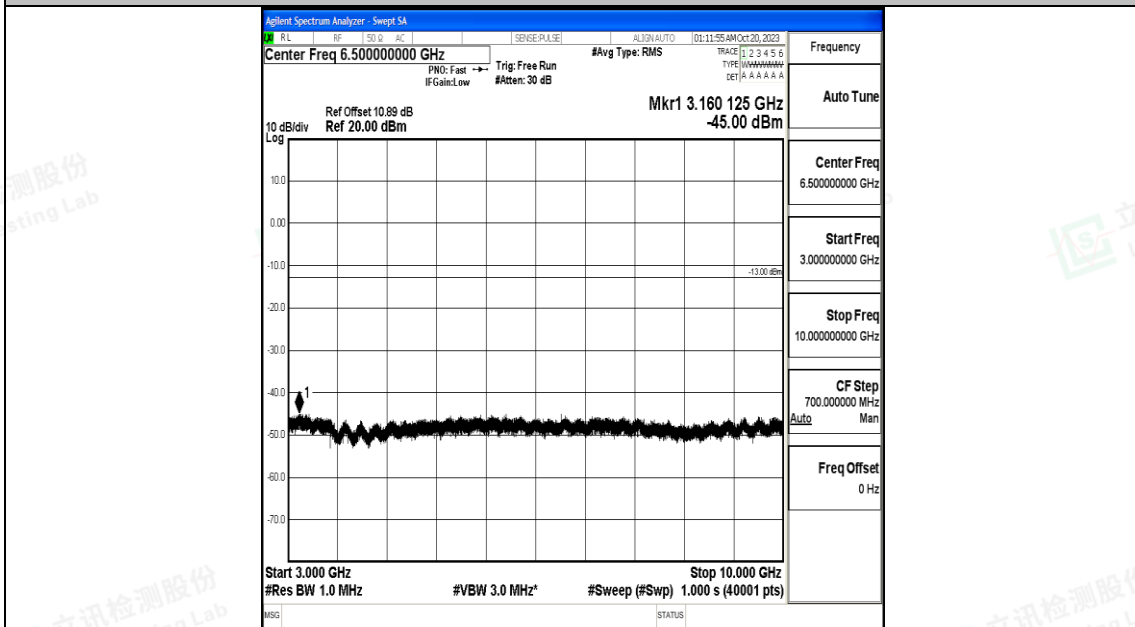


Band13_10MHz_16QAM_23230_1RB#0_30~1000_30~1000



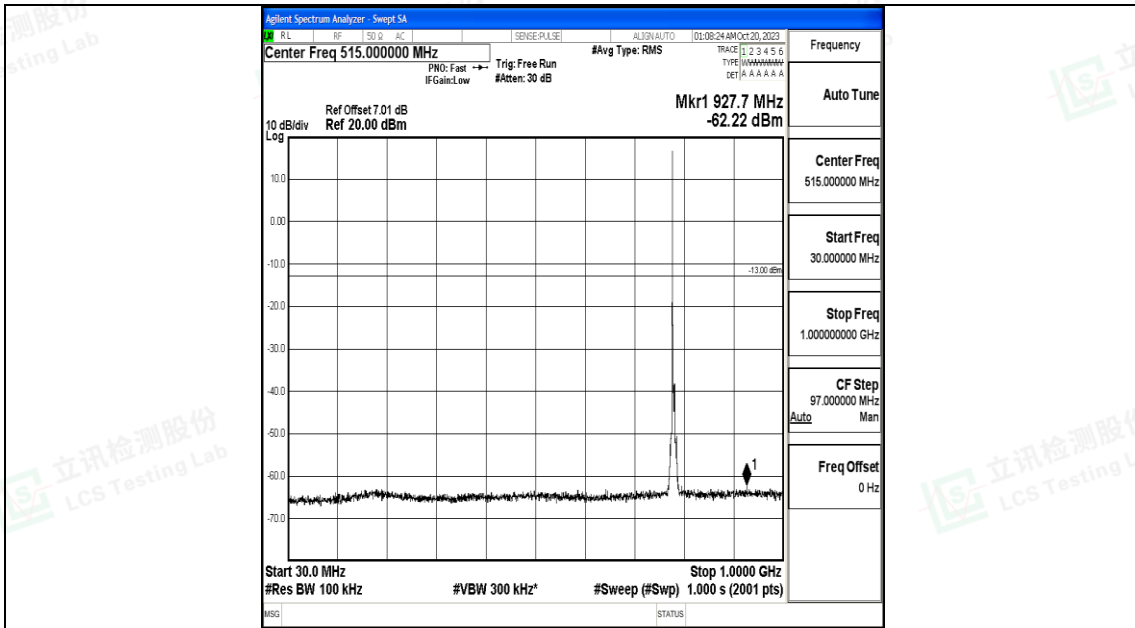


Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000

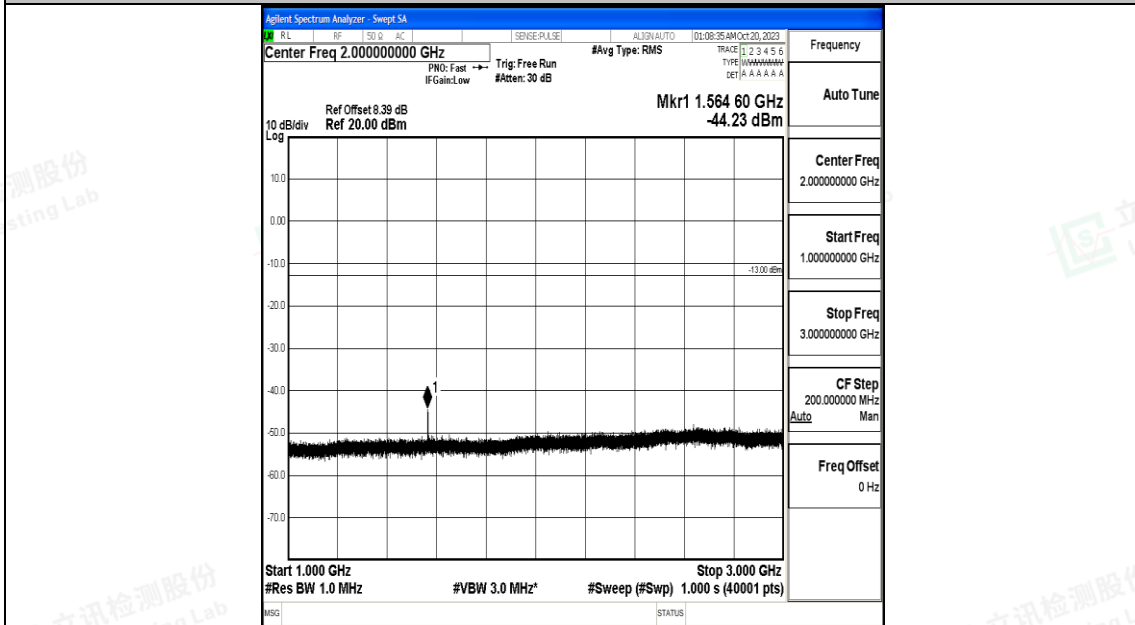


Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000



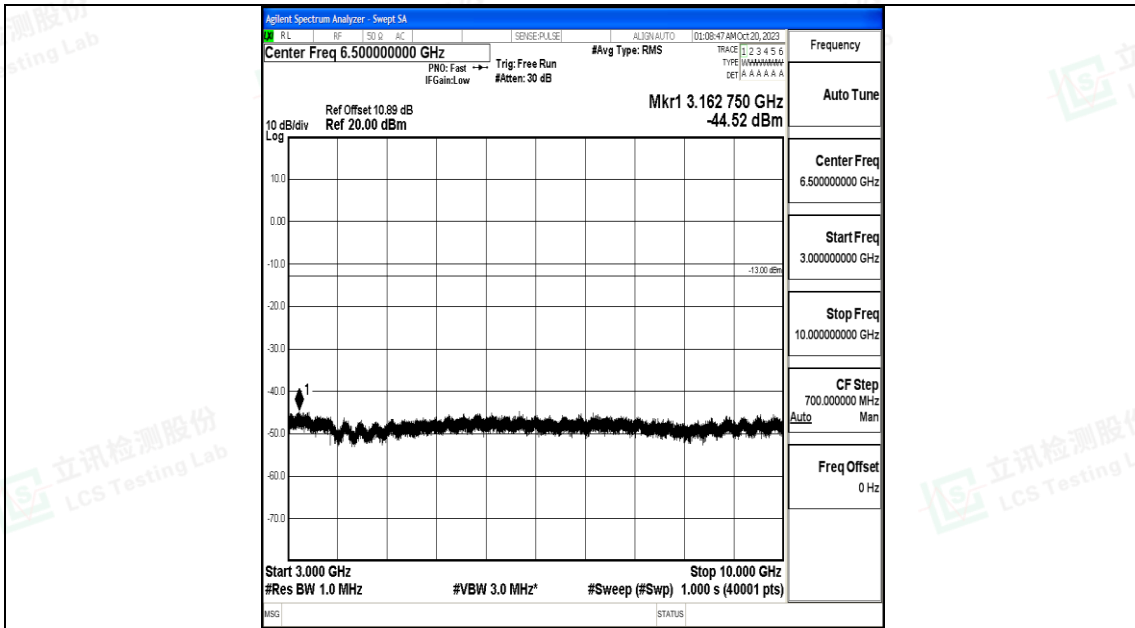


Band13_5MHz_16QAM_23255_1RB#0_30~1000_30~1000

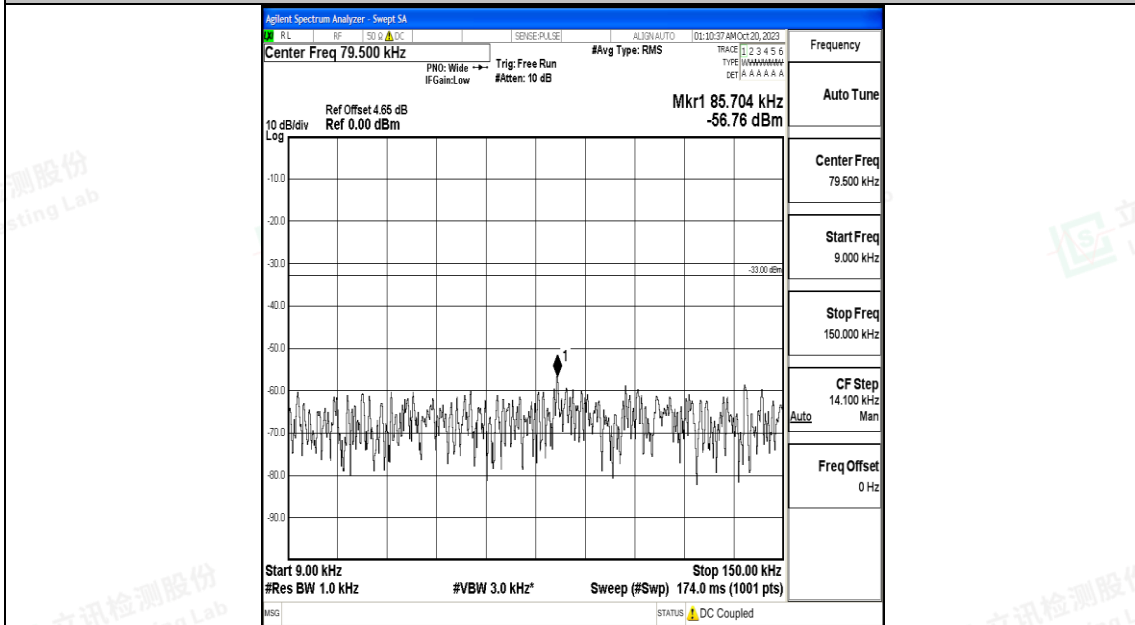


Band13_5MHz_16QAM_23255_1RB#0_1000~3000_1000~3000



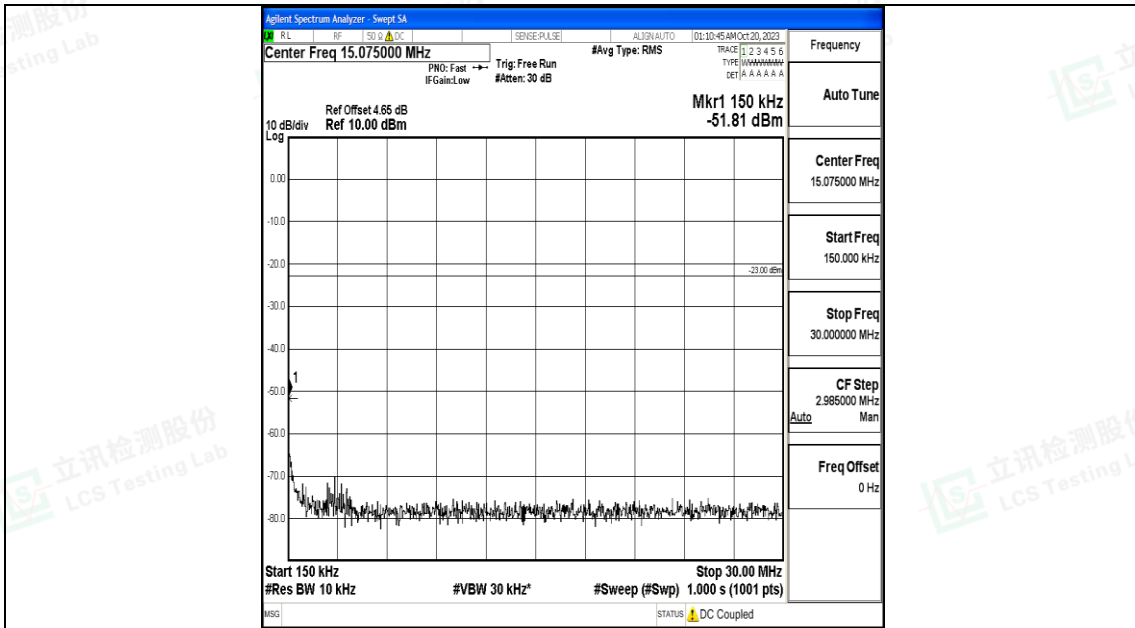


Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000

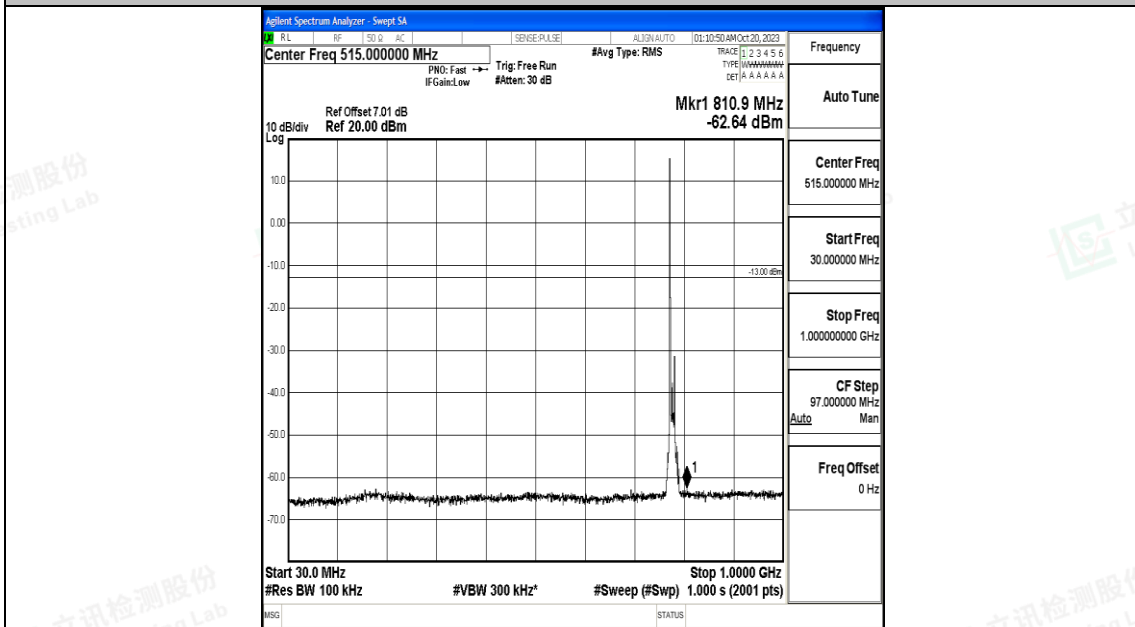


Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15





Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000

