



Appendix L: Test Data for E-UTRA Band 13

Product Name: Fixed wireless phone

Test Model: HP15

Environmental Conditions

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



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L.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.04	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.81	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.99	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.76	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.06	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.59	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.16	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.41	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.16	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.40	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.20	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.41	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.20	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.44	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.80	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.62	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.68	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.20	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.98	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.09	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.18	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.36	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.18	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.51	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.08	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.45	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.06	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.41	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.85	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.95	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.69	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.90	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.54	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.76	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.01	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.21	PASS



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Band13	5MHz	QPSK	23255	12RB#6	23.01	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.22	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.93	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.09	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.93	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.27	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.54	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.84	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.46	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.85	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.16	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.47	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.68	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.95	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.75	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.94	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.34	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.59	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.83	PASS



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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.48	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.18	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.46	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.09	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.69	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.27	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.18	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.73	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.31	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.50	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.15	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.47	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.10	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.49	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.17	13	PASS



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Test Graphs

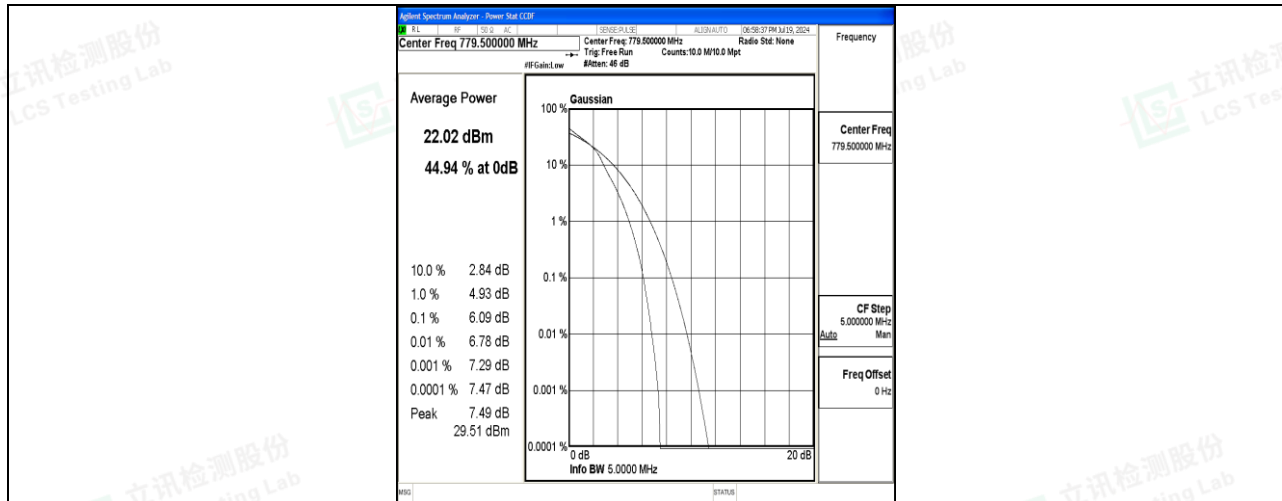


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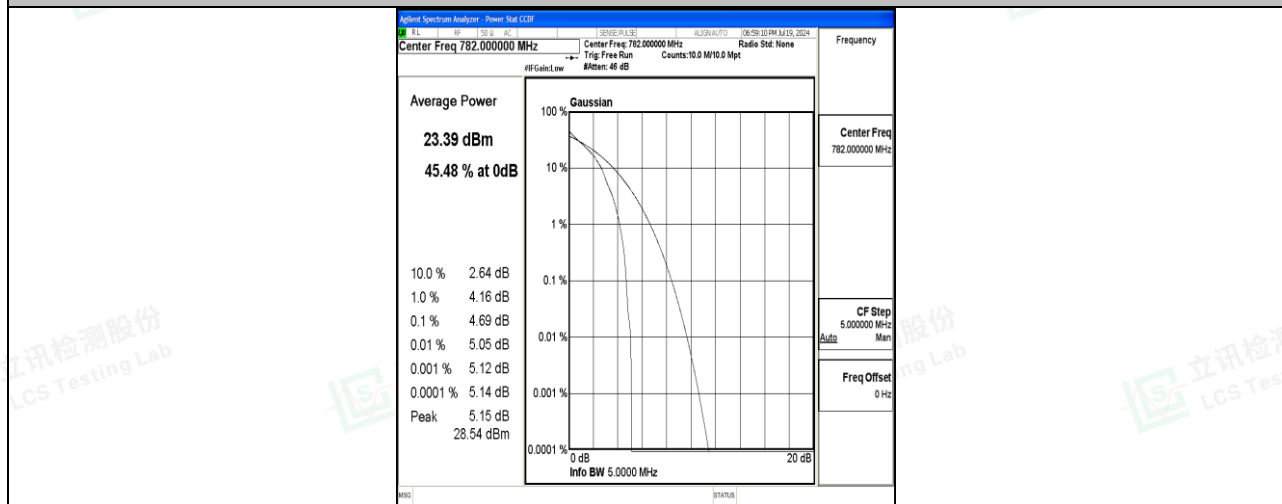
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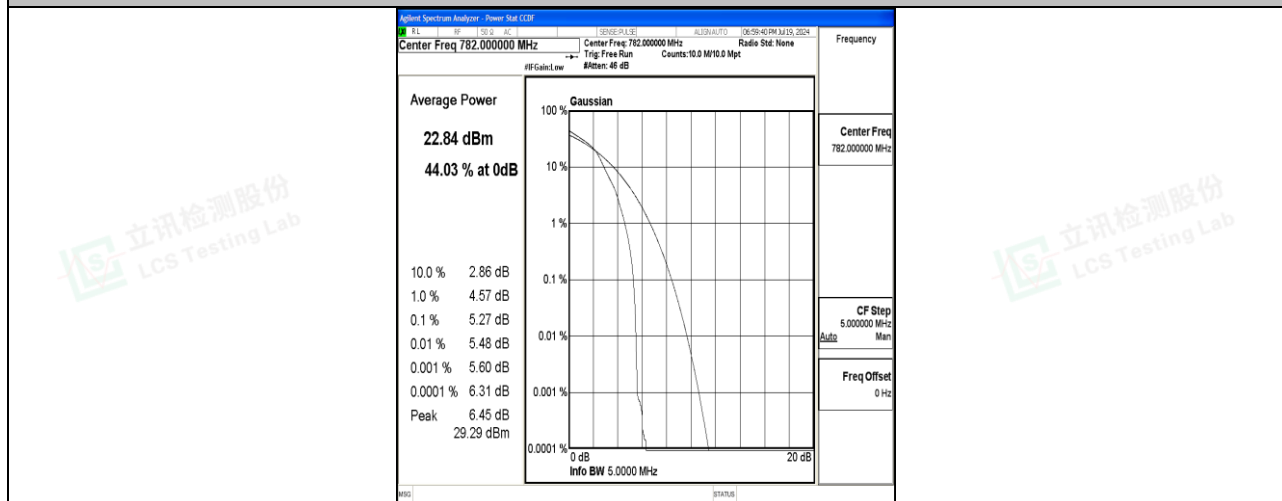
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Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-QPSK-23230-1RB#0-PASS



Band13-5MHz-16QAM-23230-1RB#0-PASS



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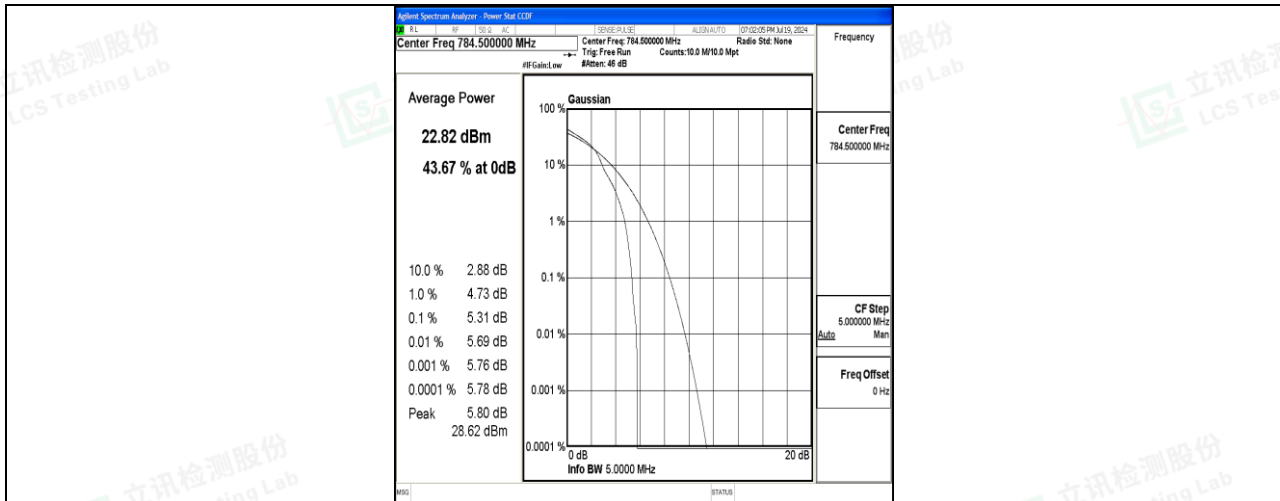


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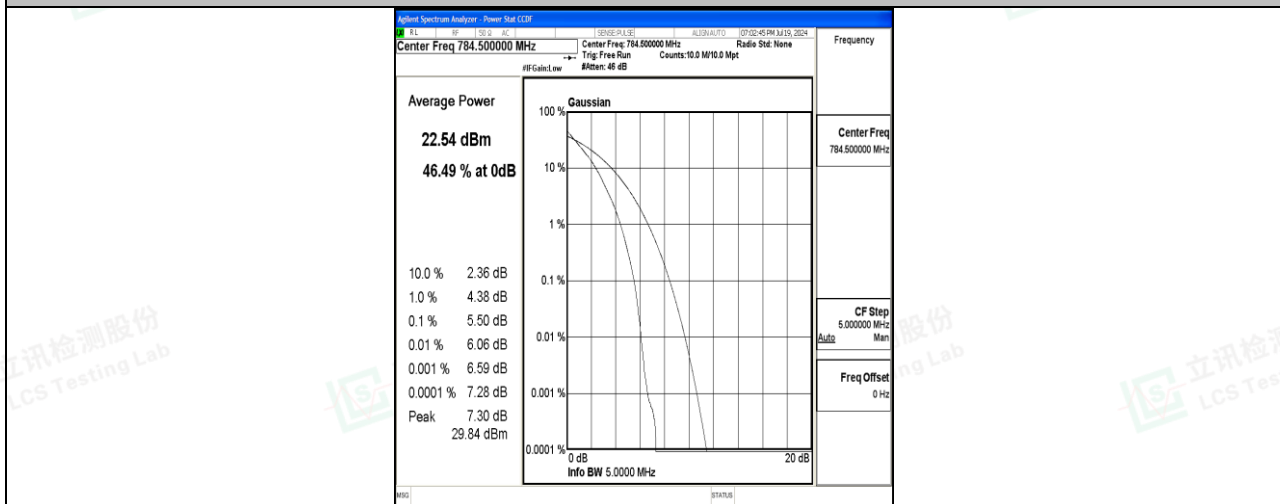
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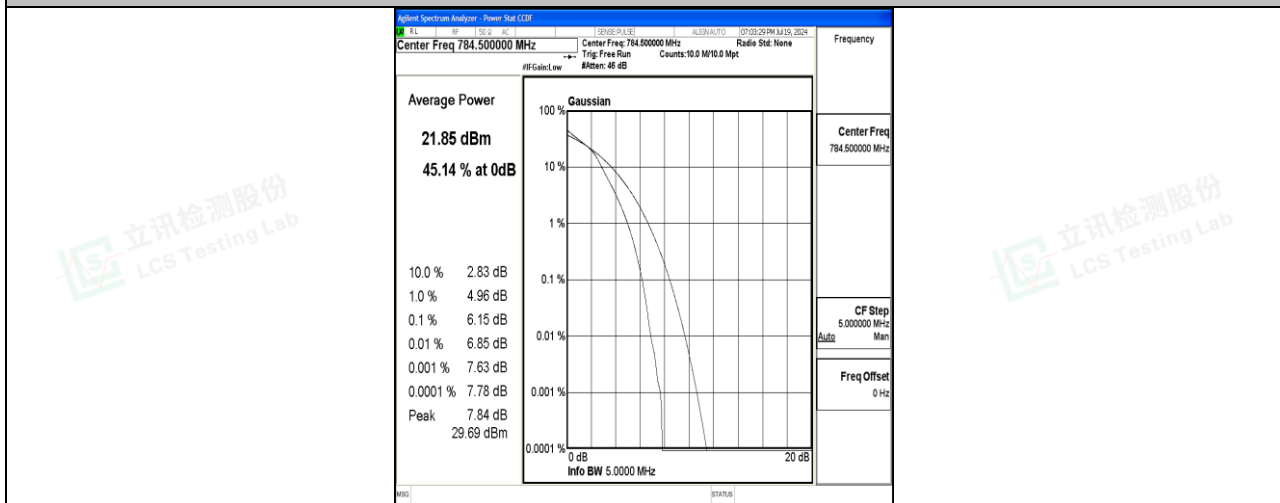
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Band13-5MHz-16QAM-23255-1RB#0-PASS



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



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



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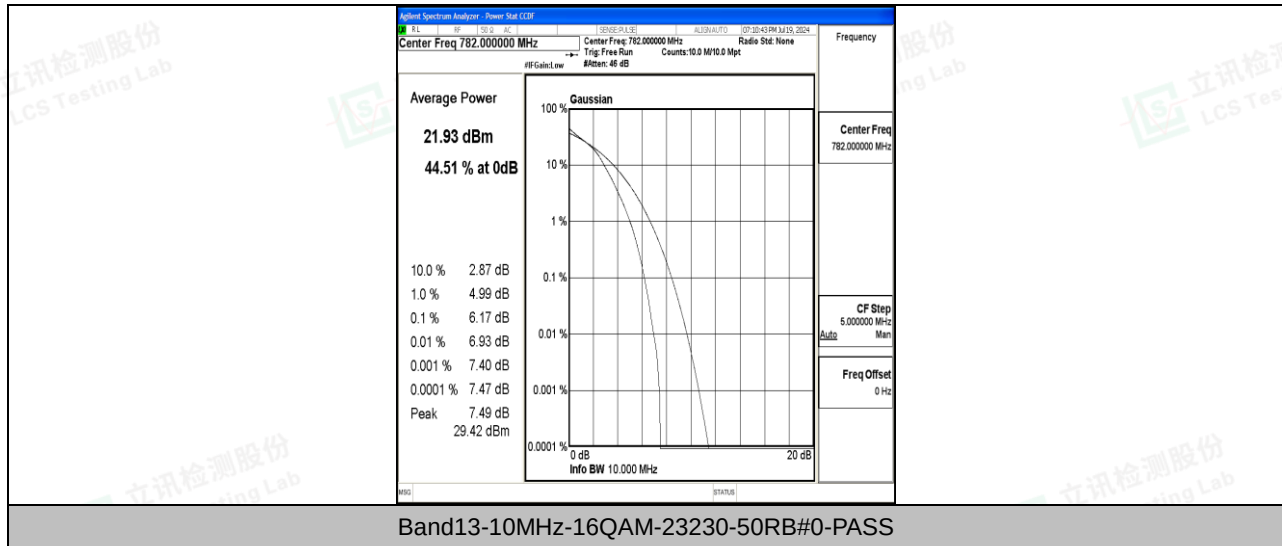


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L.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5291	5.323	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5157	5.260	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5212	5.317	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5197	5.324	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5184	5.114	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5421	5.375	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9887	9.975	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9879	10.06	PASS



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Test Graphs

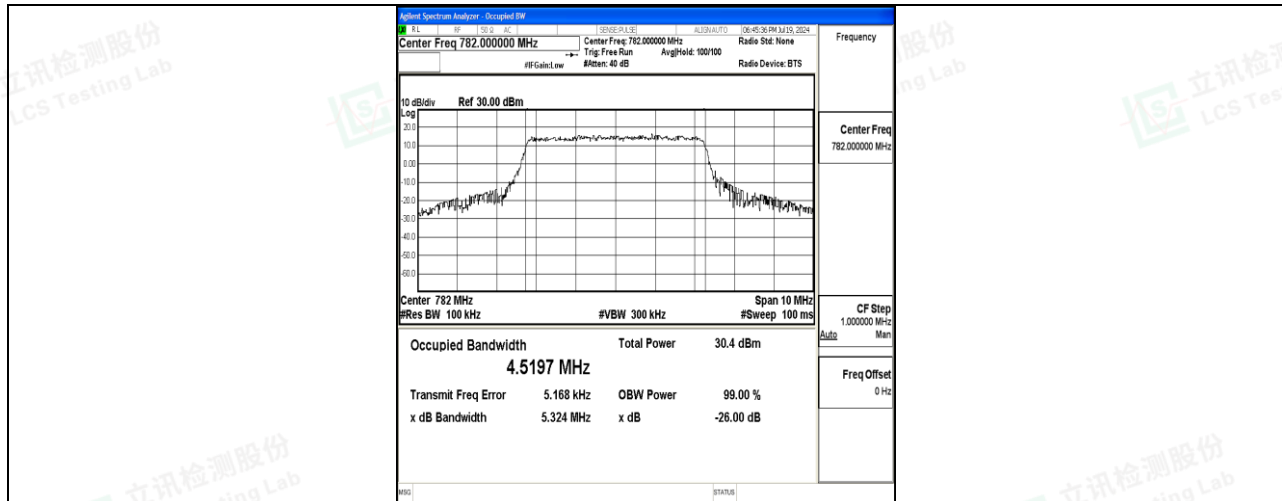


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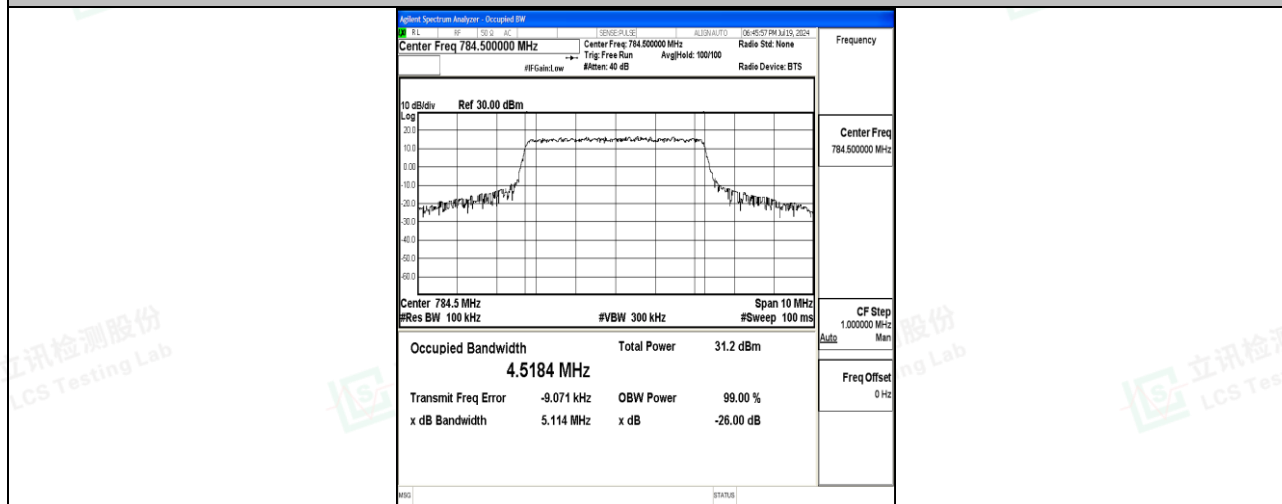
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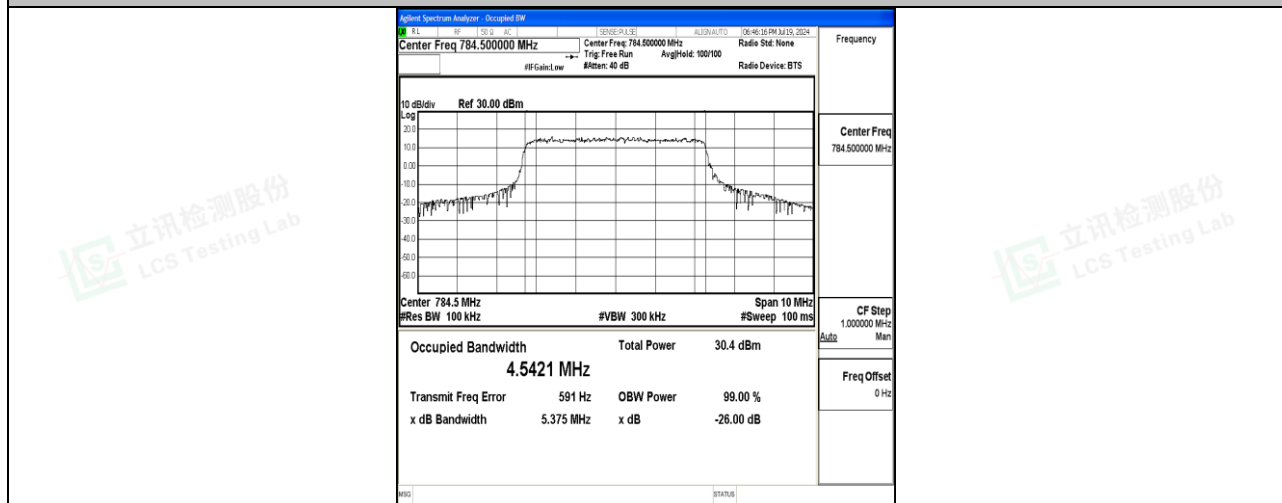
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Band13-5MHz-16QAM-23230-25RB#0-PASS



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



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

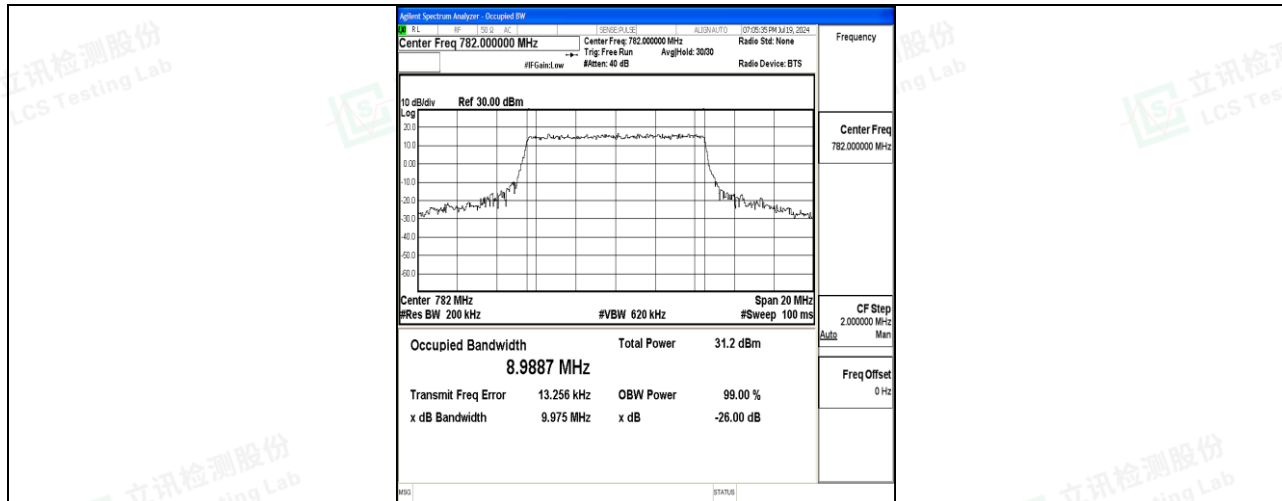


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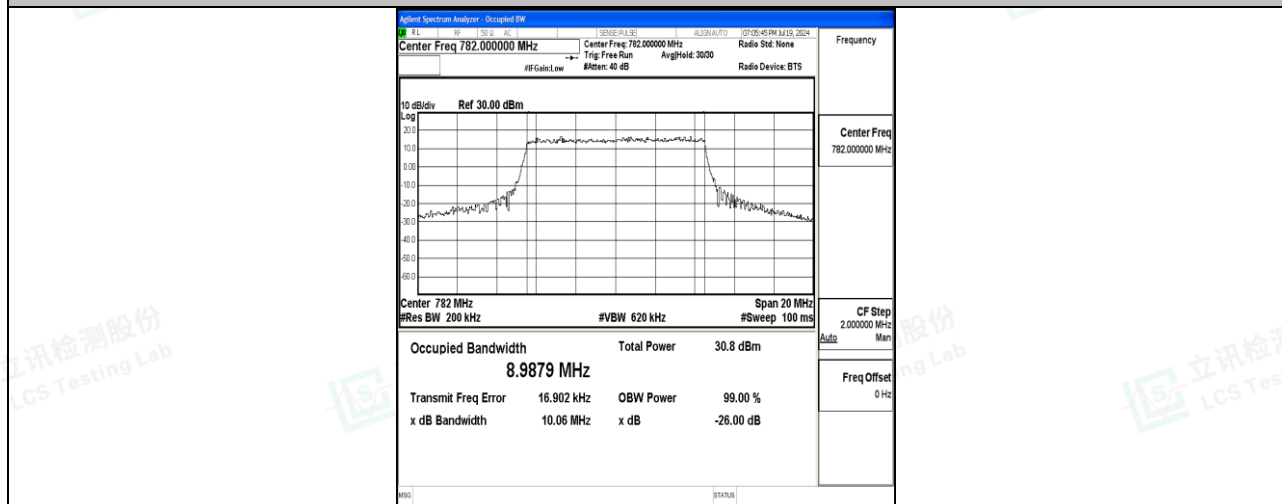
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Band13-10MHz-QPSK-23230-50RB#0-PASS



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



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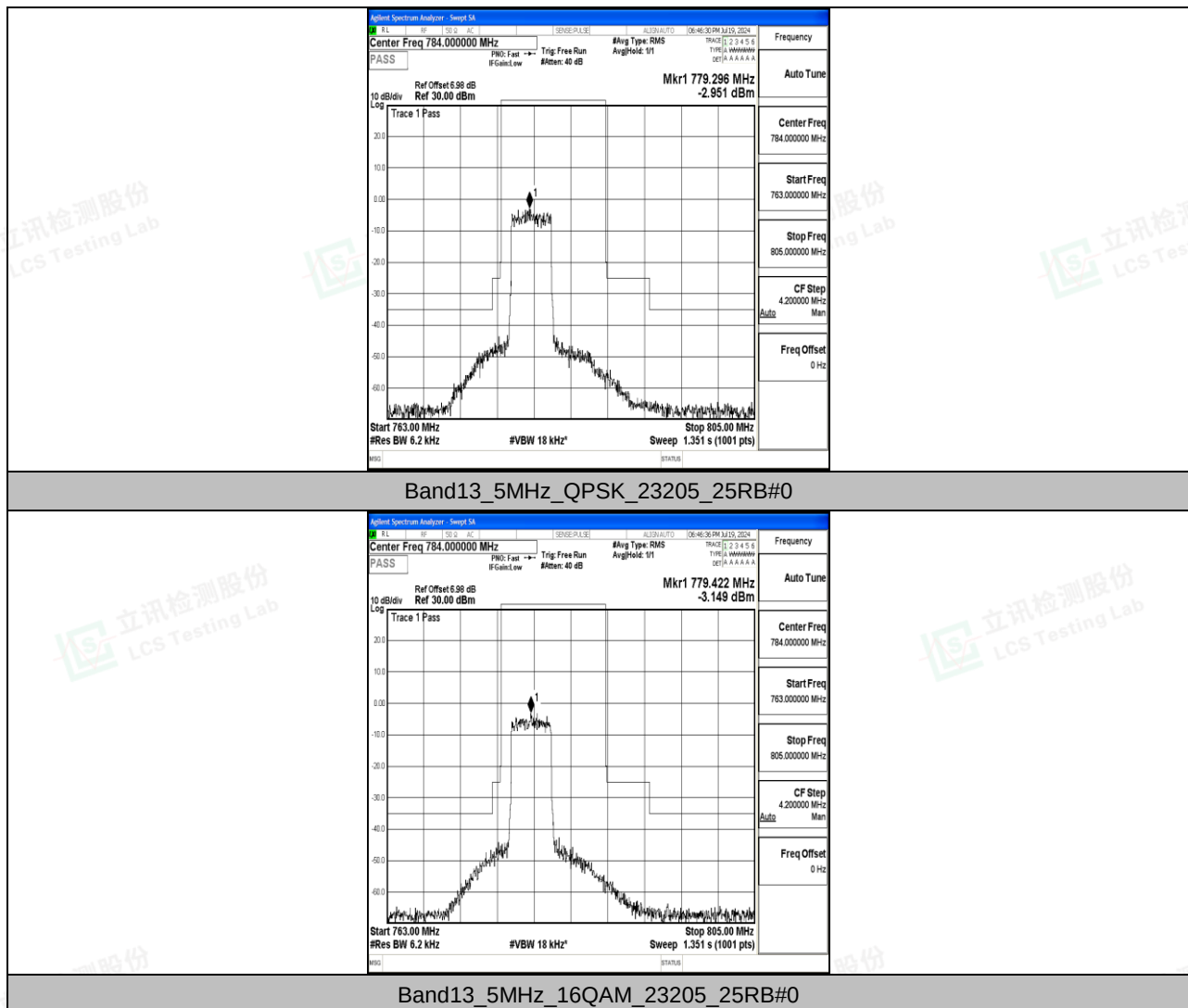


L.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.80	-46.98	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.89	-46.62	PASS
Band13	5MHz	QPSK	23255	25RB#0	774.68	-56.40	PASS
Band13	5MHz	16QAM	23255	25RB#0	774.68	-58.26	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.63	-48.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	773.92	-49.39	PASS

Test Graphs

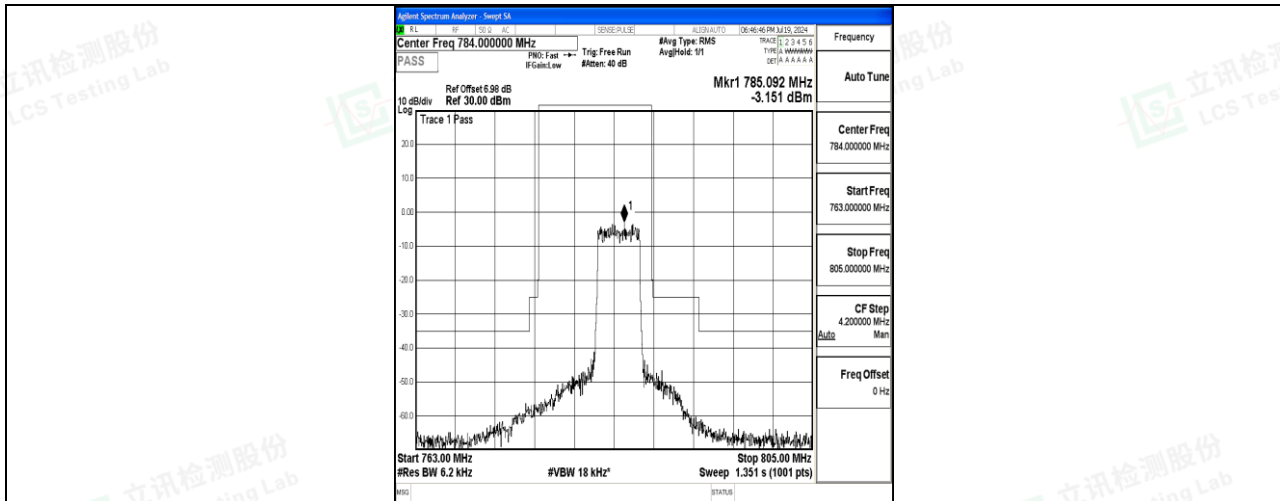


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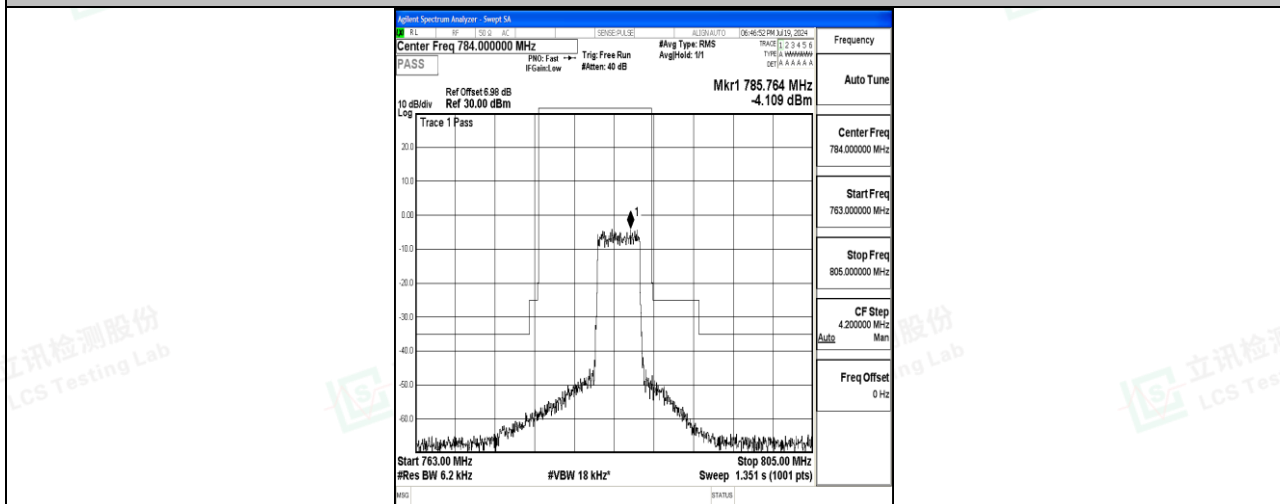
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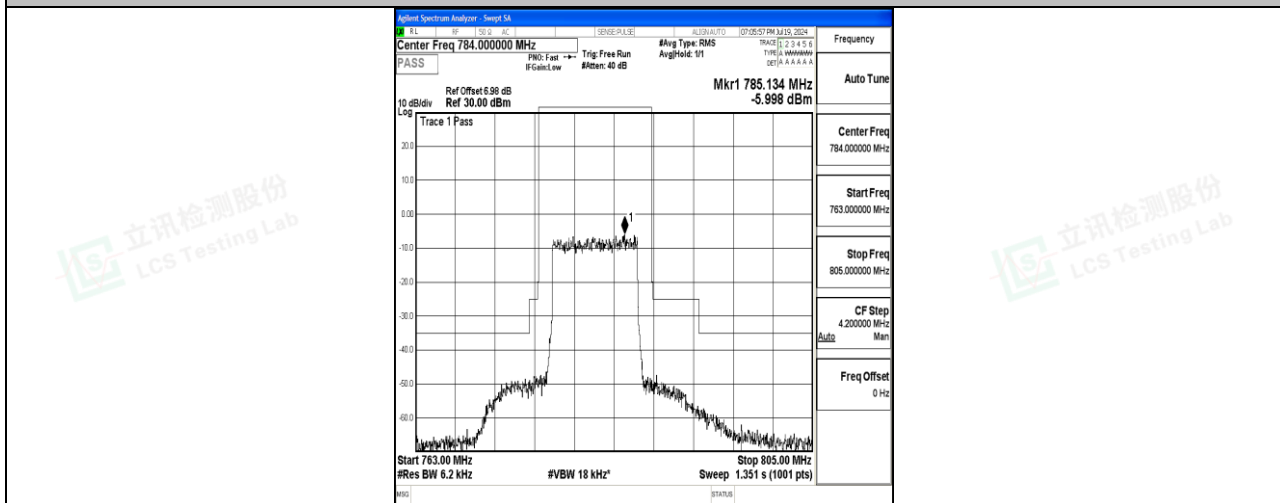
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Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0

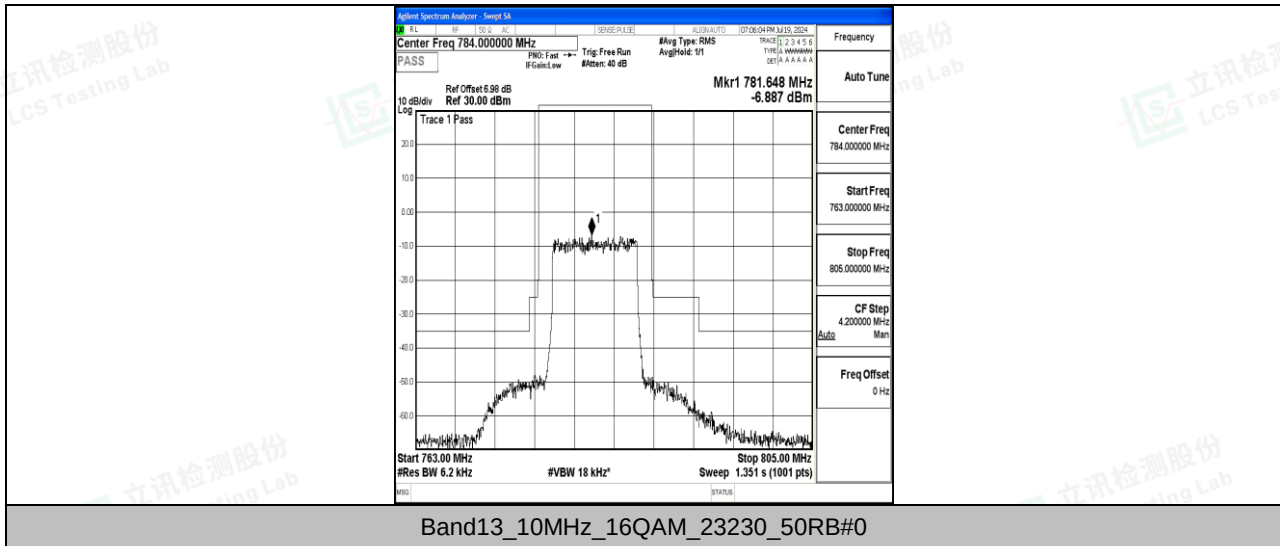


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L5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-60.76	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-52.32	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-61.86	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-43.30	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-44.17	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-59.62	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-50.53	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-61.04	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-42.20	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-43.67	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-58.35	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-51.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-62.14	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-42.74	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-43.93	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-58.70	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-51.33	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.16	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-43.47	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-43.90	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-58.33	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-53.17	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-61.93	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-42.39	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-43.67	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-54.87	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-50.96	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-59.42	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-43.33	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-43.70	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-57.82	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-53.66	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-62.08	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-43.17	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-44.05	PASS



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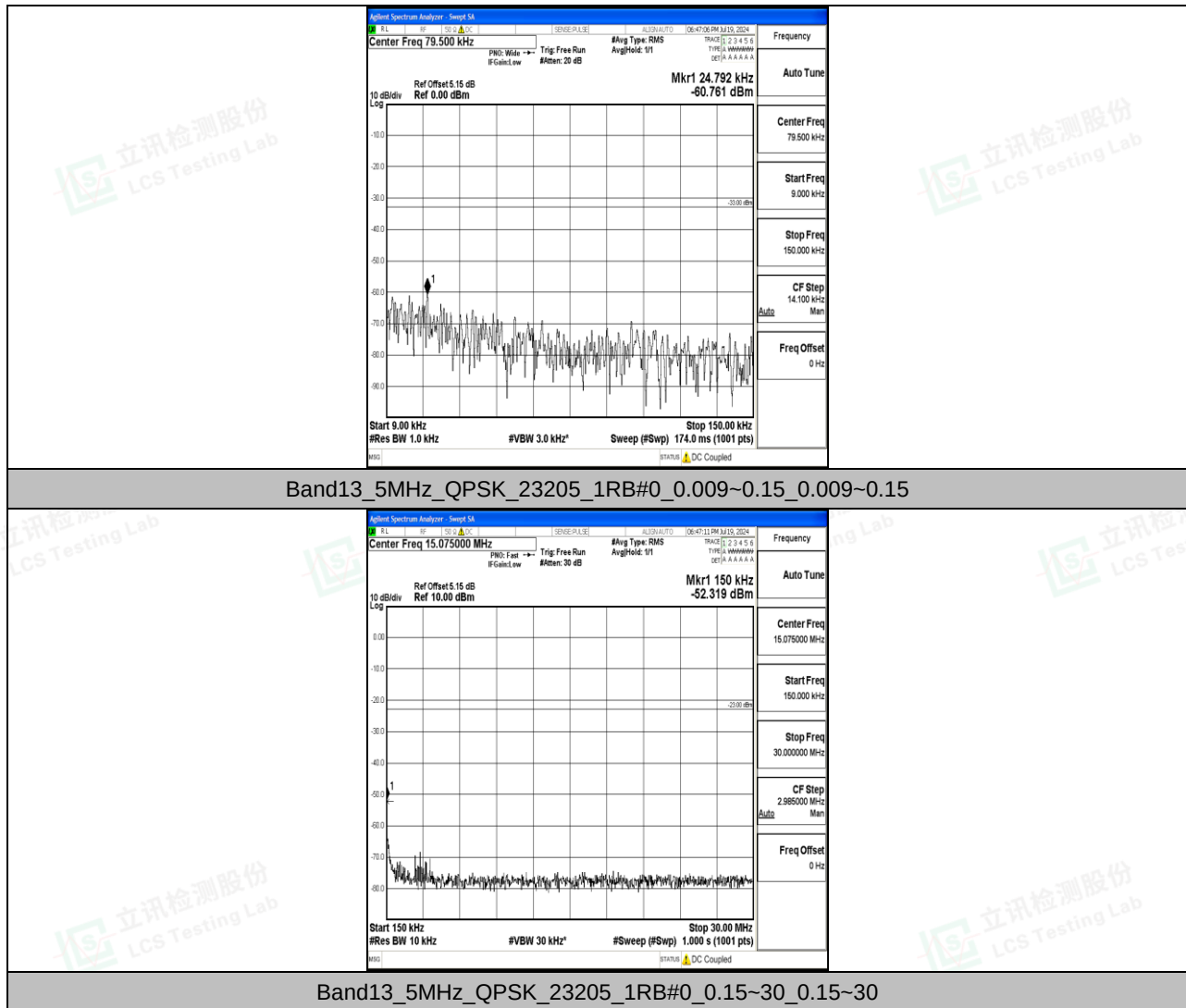
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Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-56.89	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-51.51	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-61.99	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-42.28	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-43.78	PASS

Test Graphs

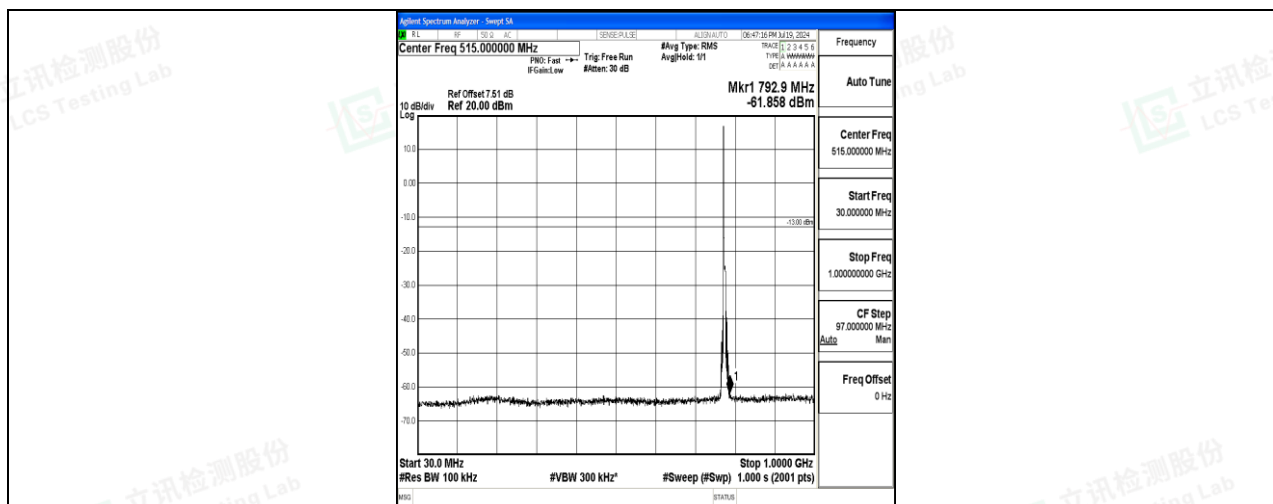


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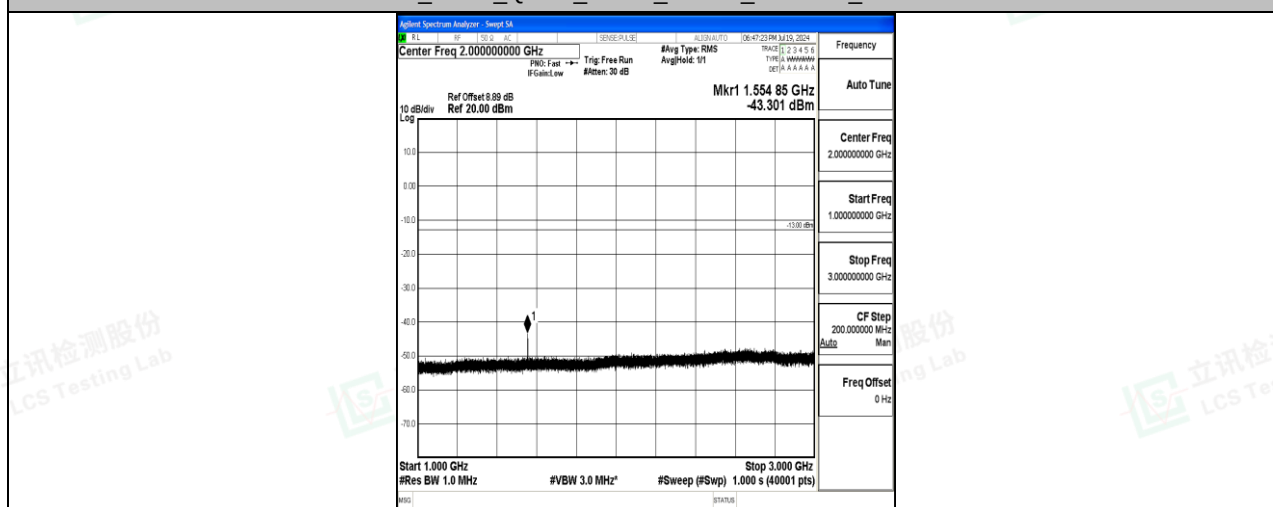
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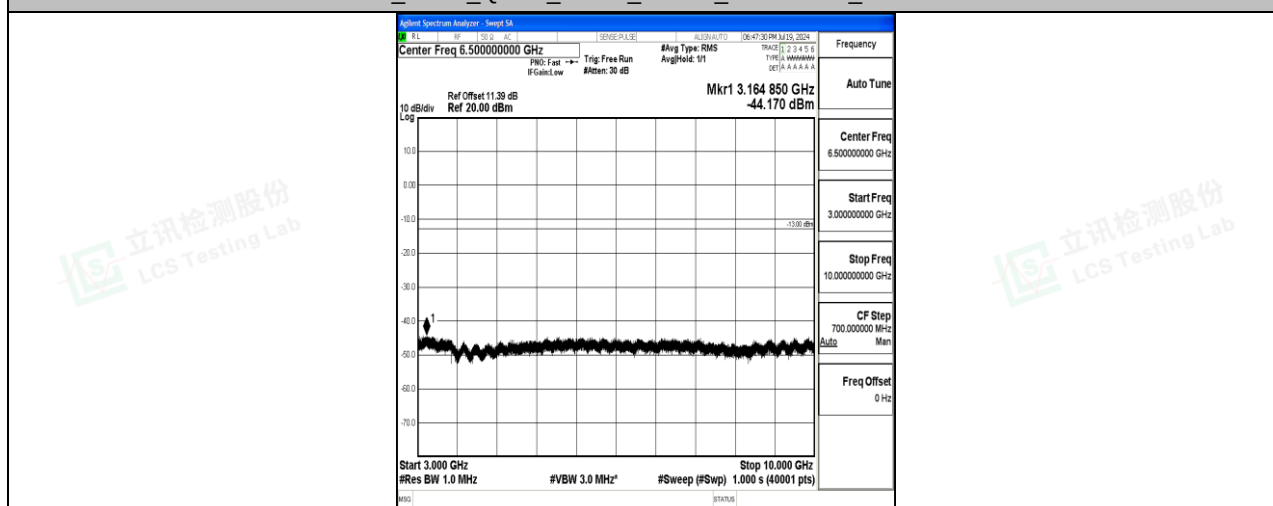
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Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000



Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000



Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000



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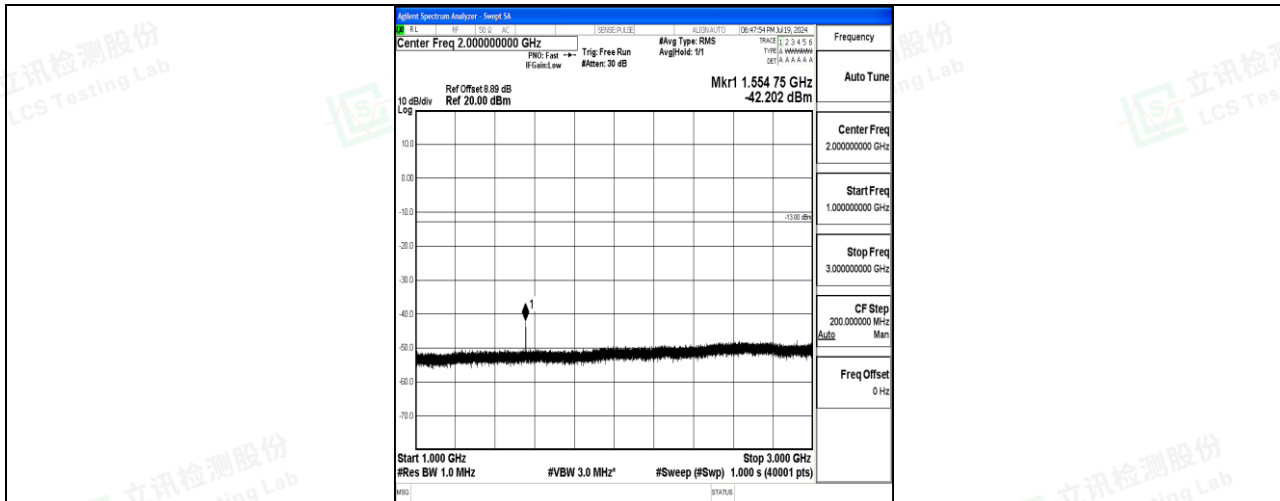


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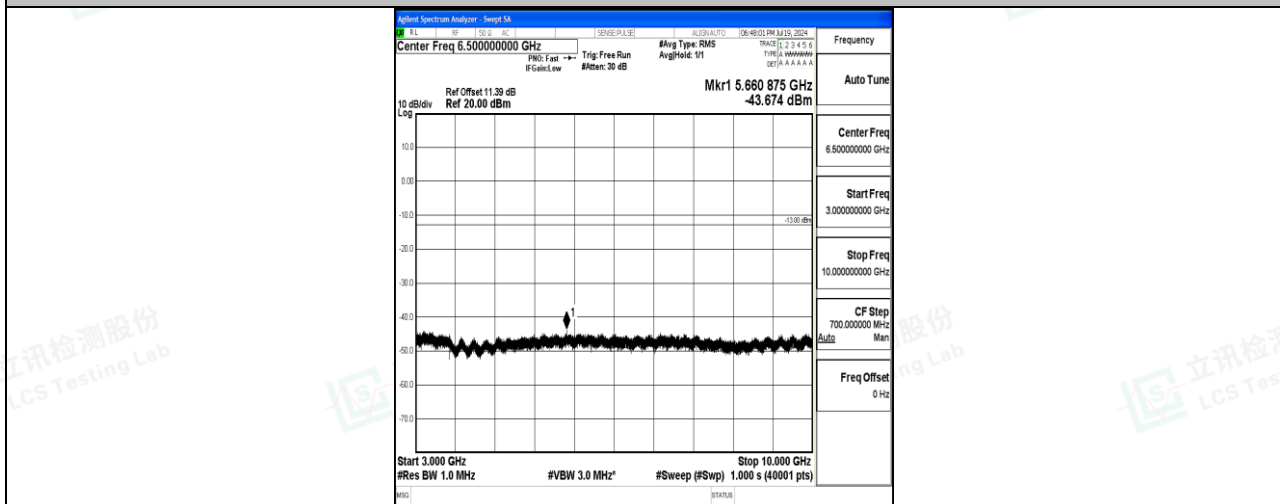
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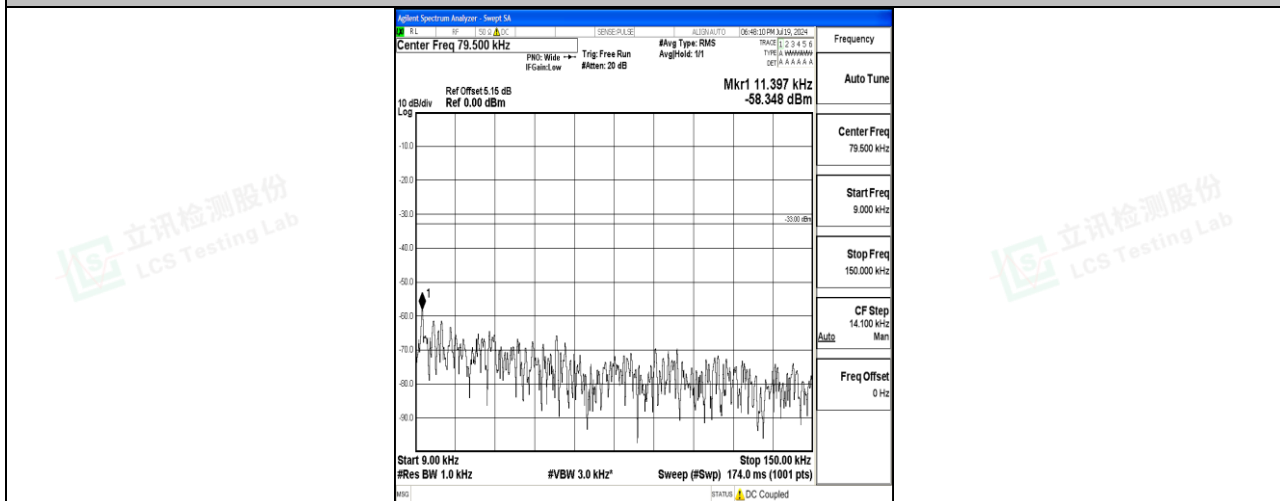
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Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000



Band13_5MHz_16QAM_23205_1RB#0_3000~10000_3000~10000



Band13_5MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15

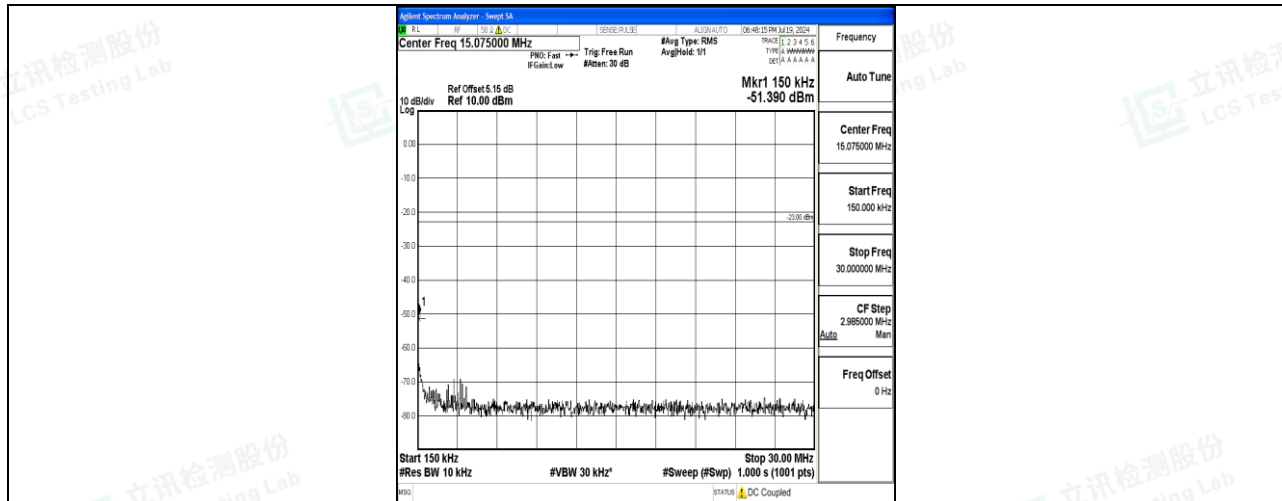


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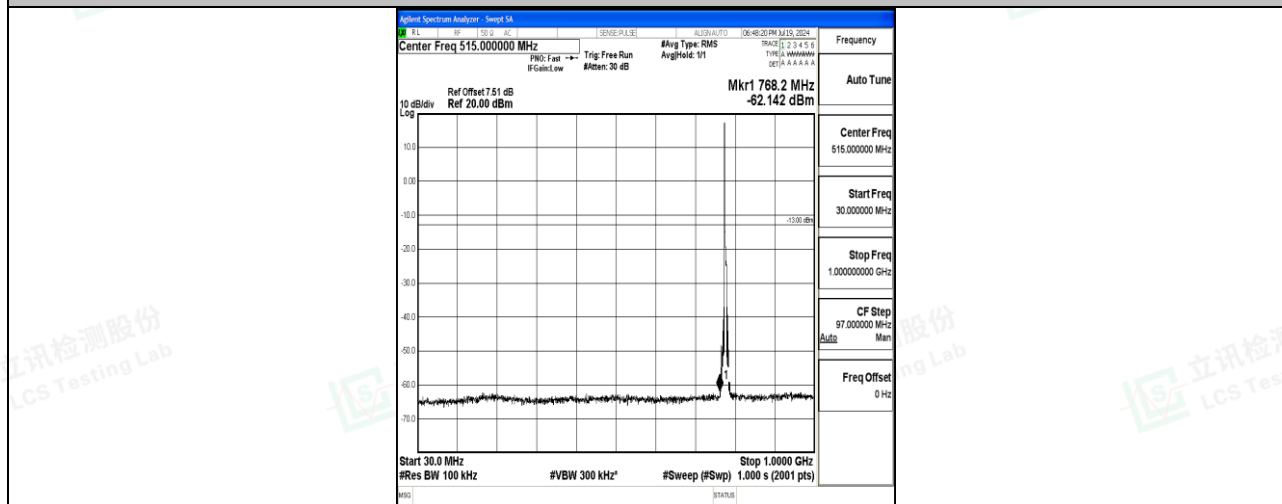
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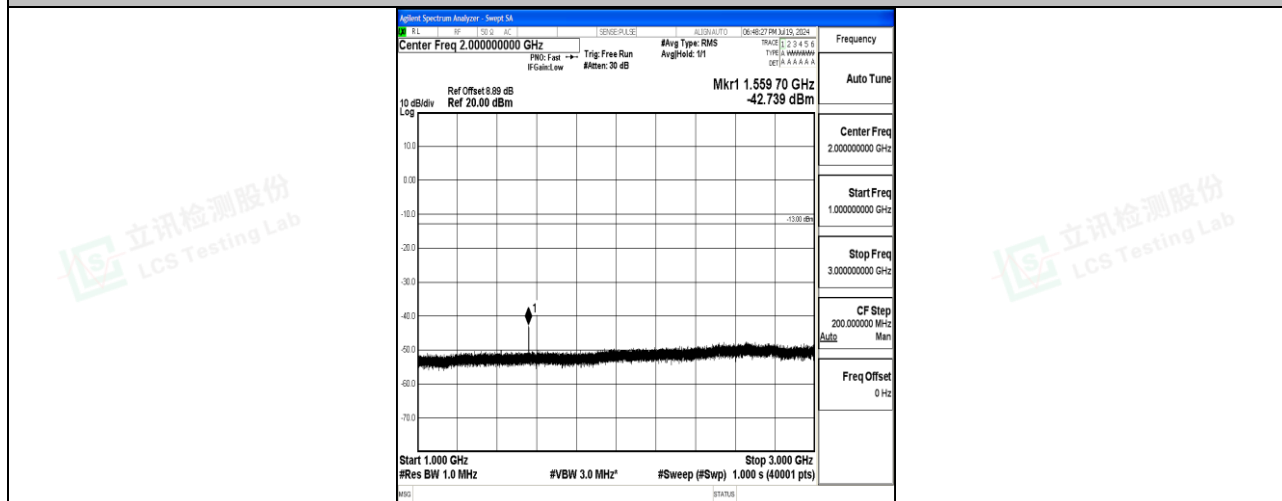
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Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000



Band13_5MHz_QPSK_23230_1RB#0_1000~3000_1000~3000

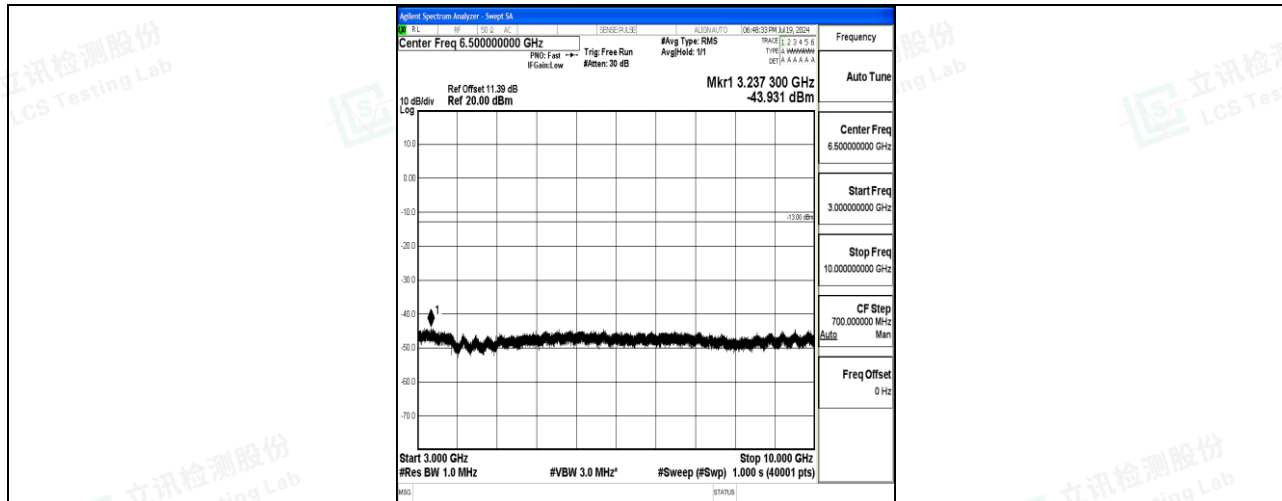


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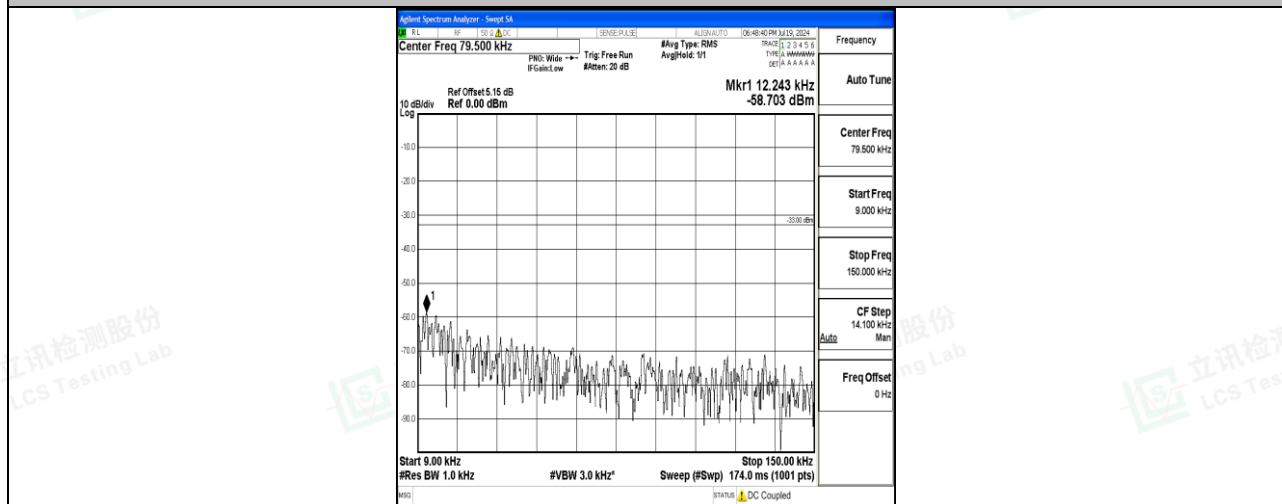
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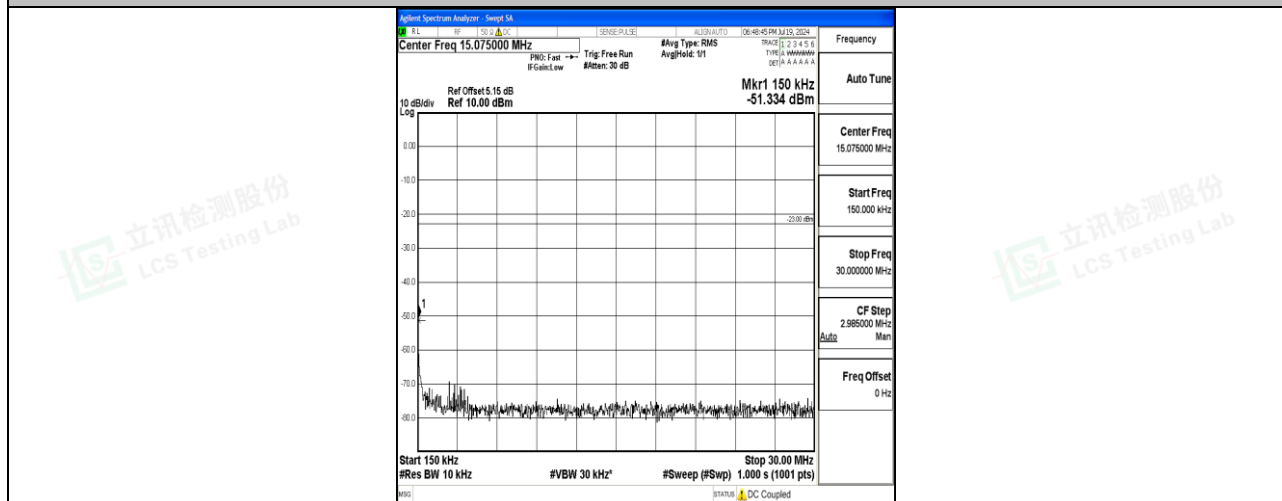
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Band13_5MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



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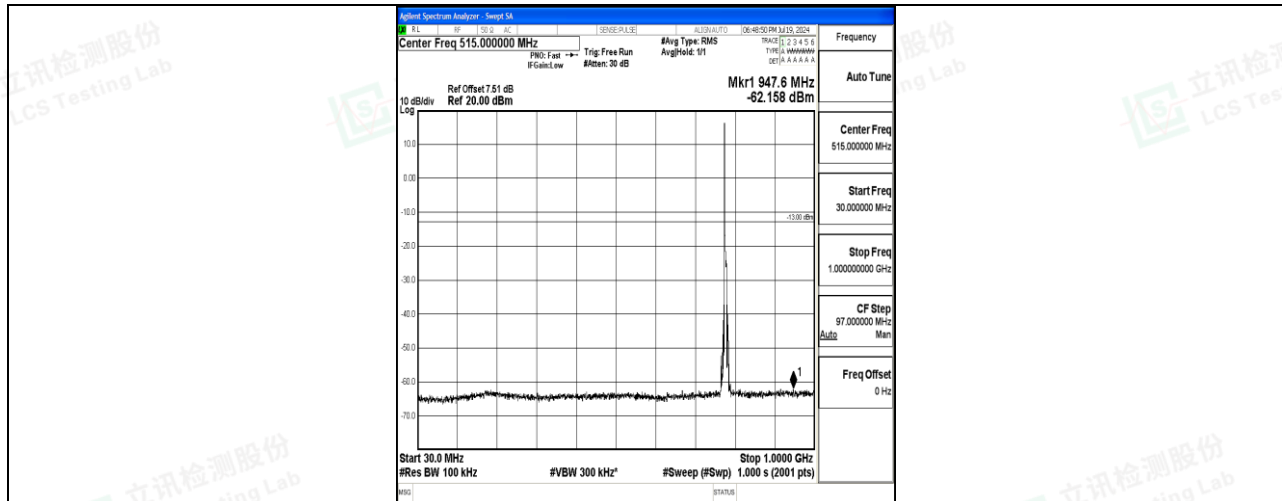


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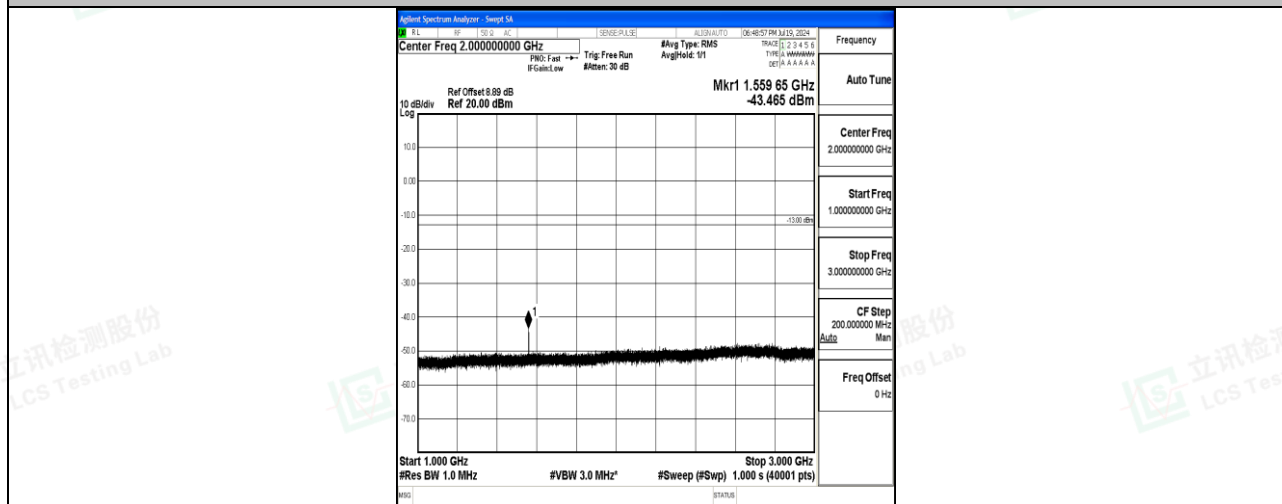
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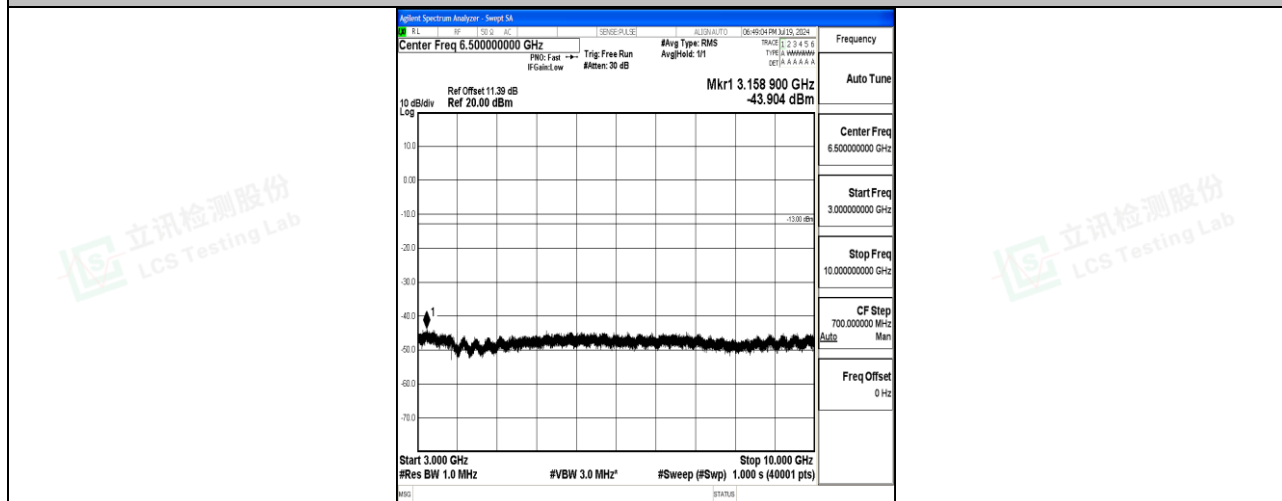
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Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000



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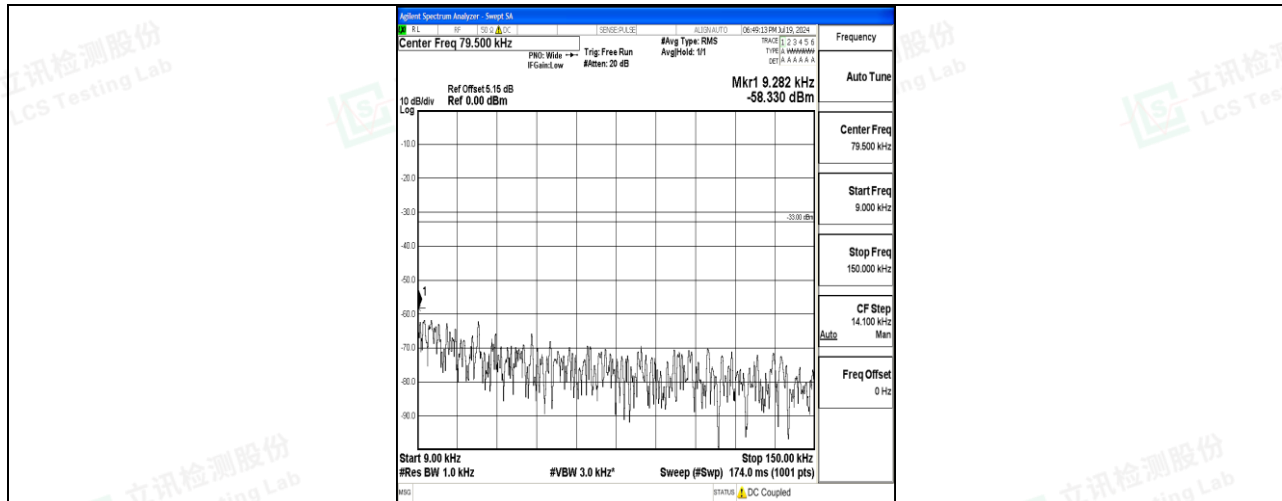


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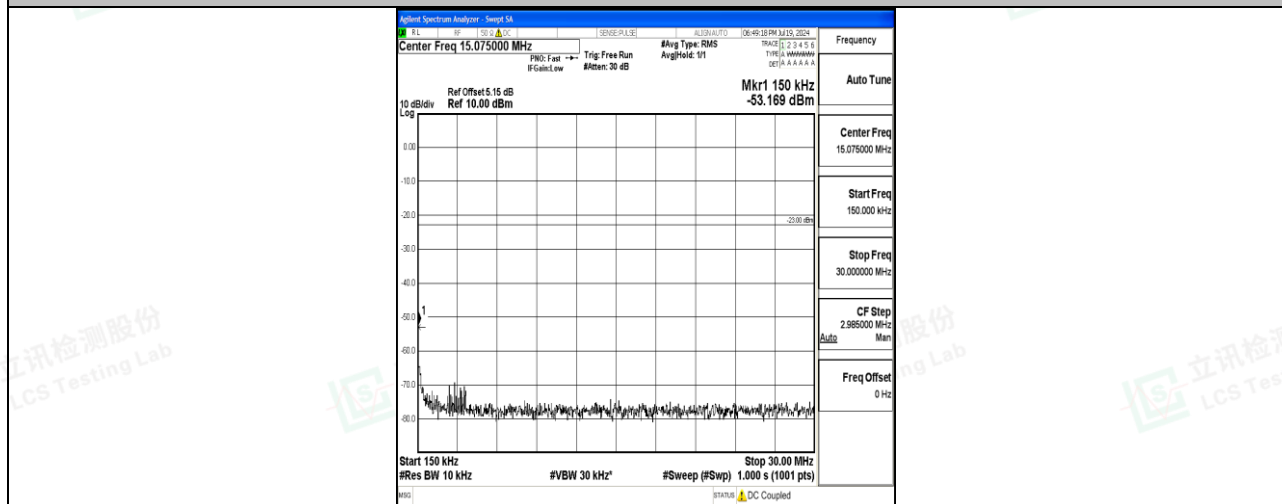
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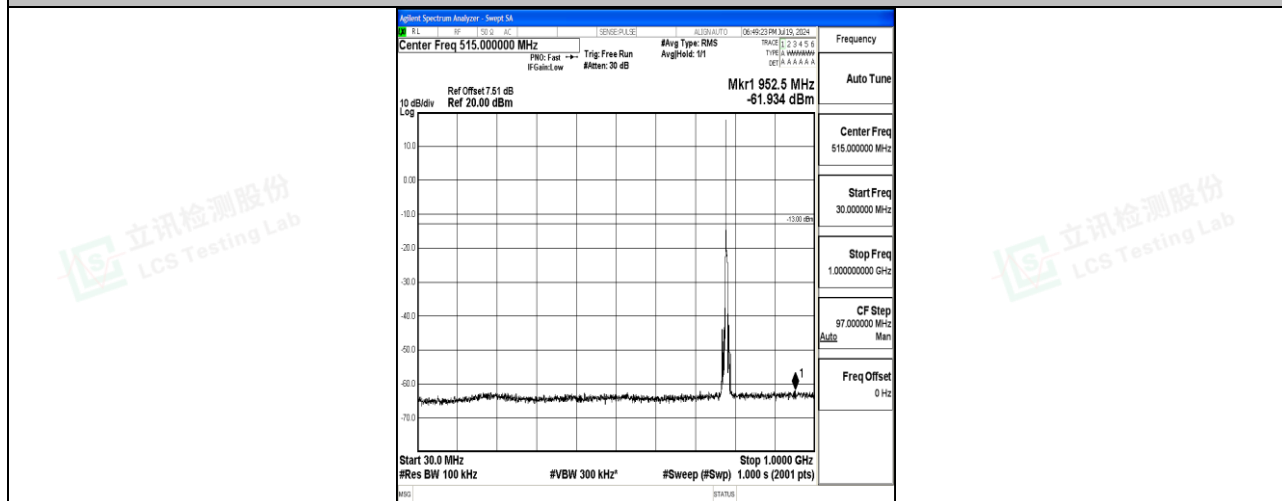
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Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15



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



Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

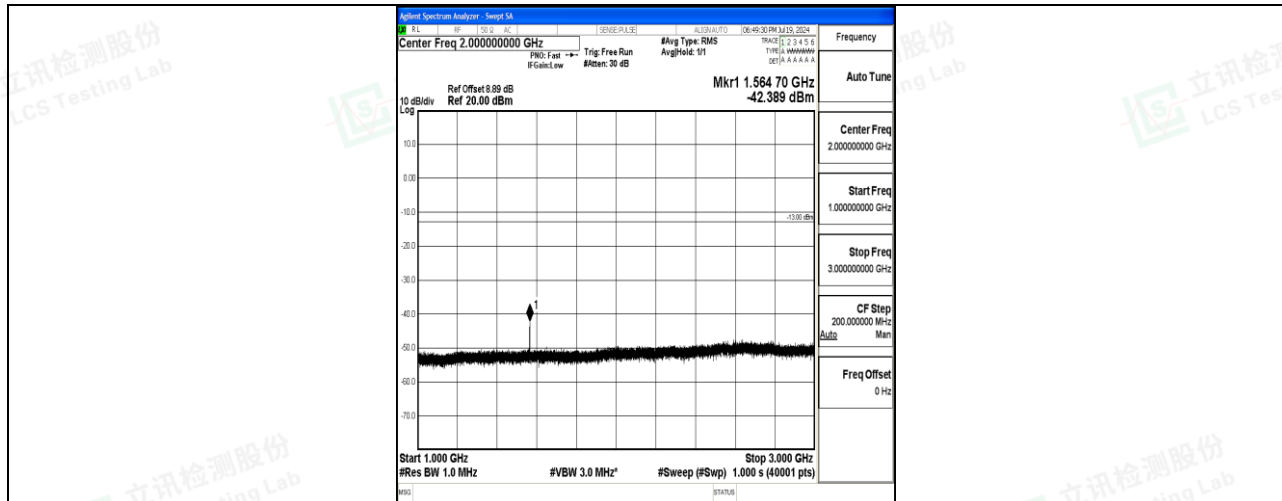


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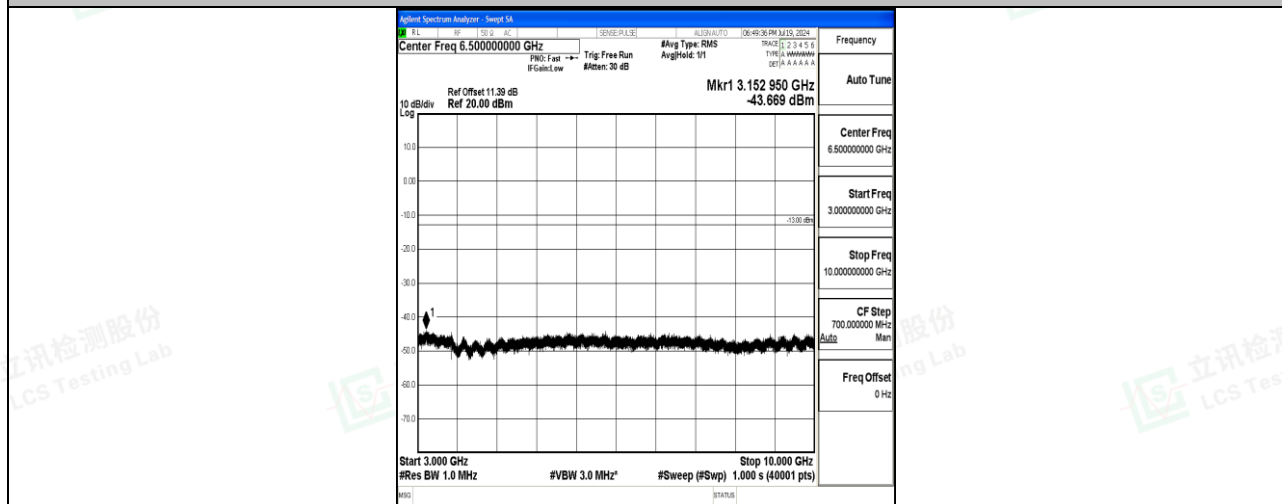
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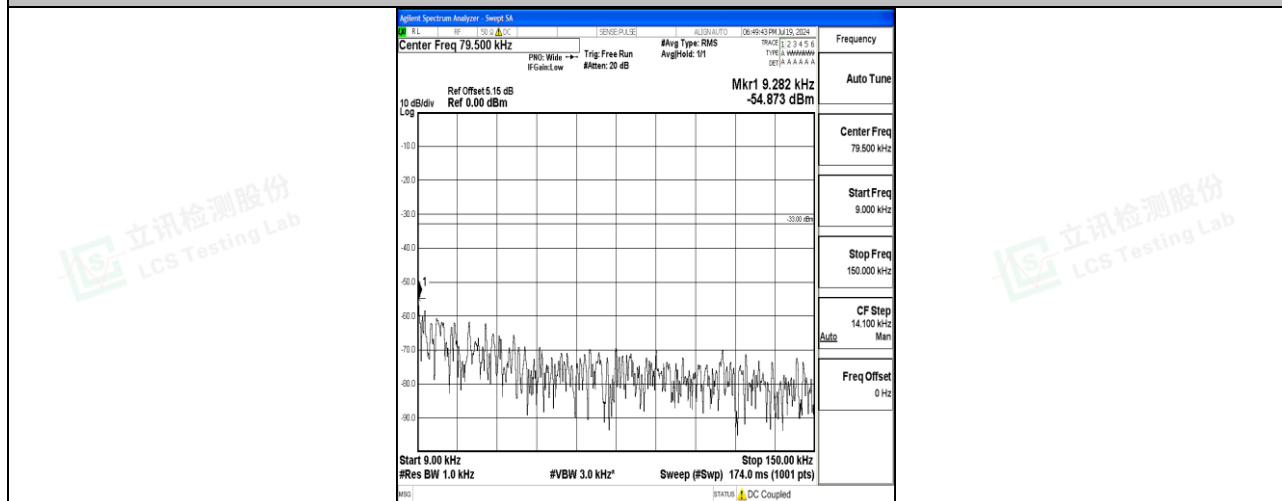
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Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000



Band13_5MHz_QPSK_23255_1RB#0_3000~10000_3000~10000



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

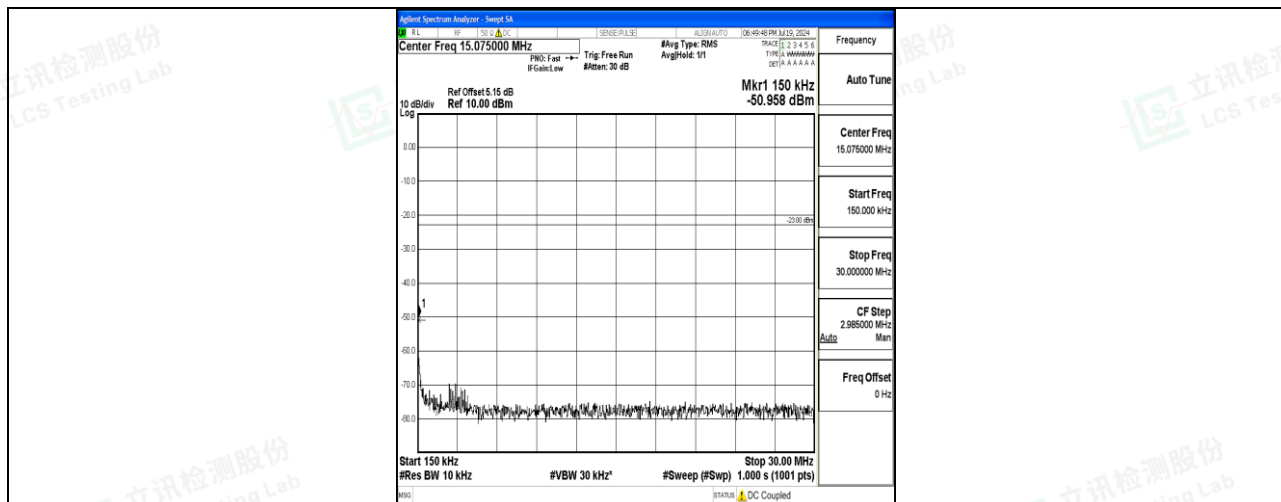


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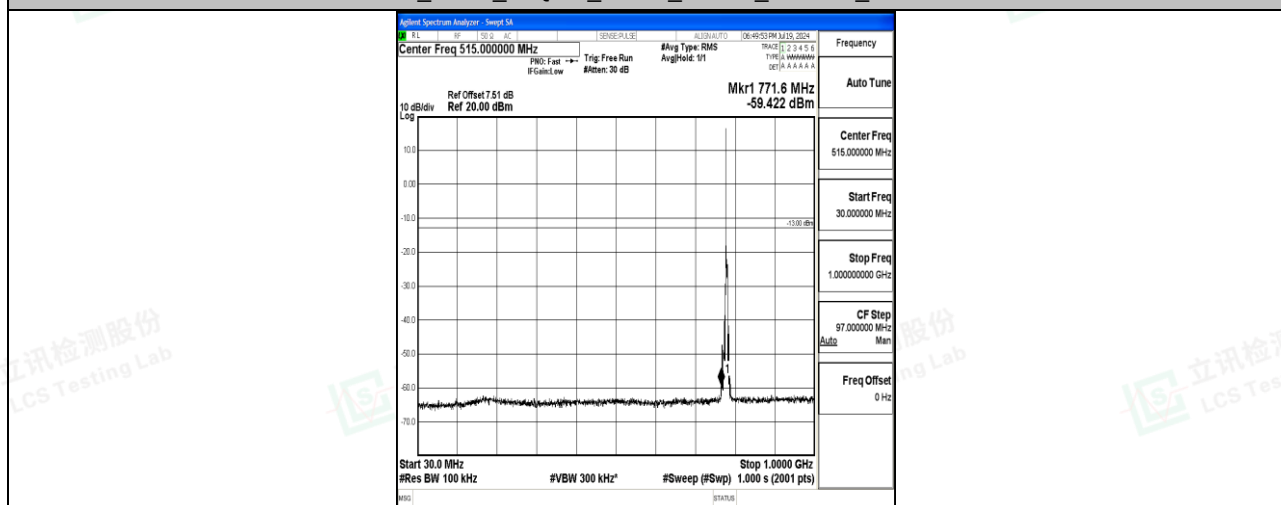
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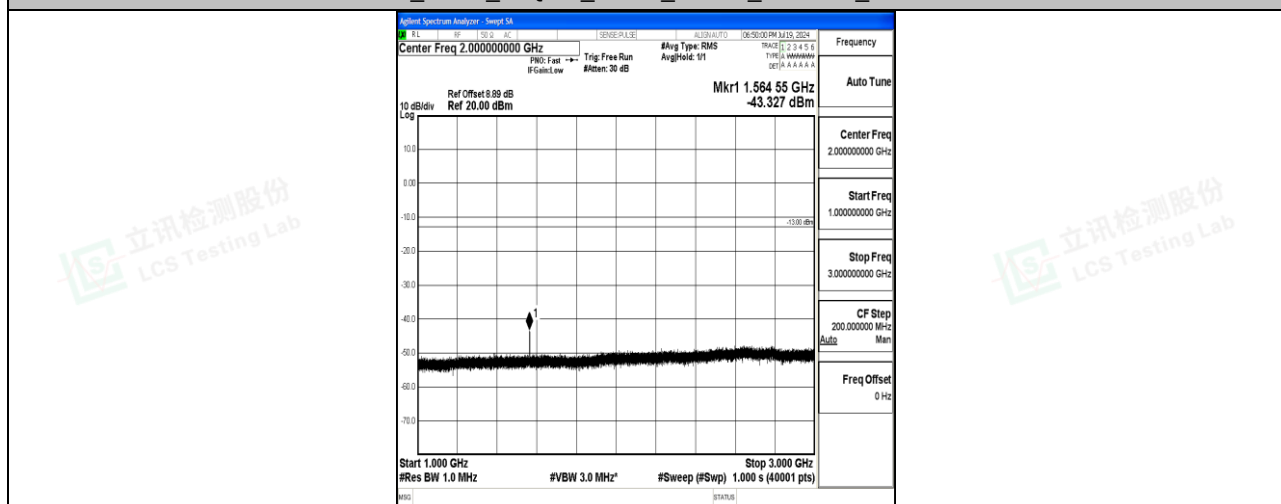
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Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~30



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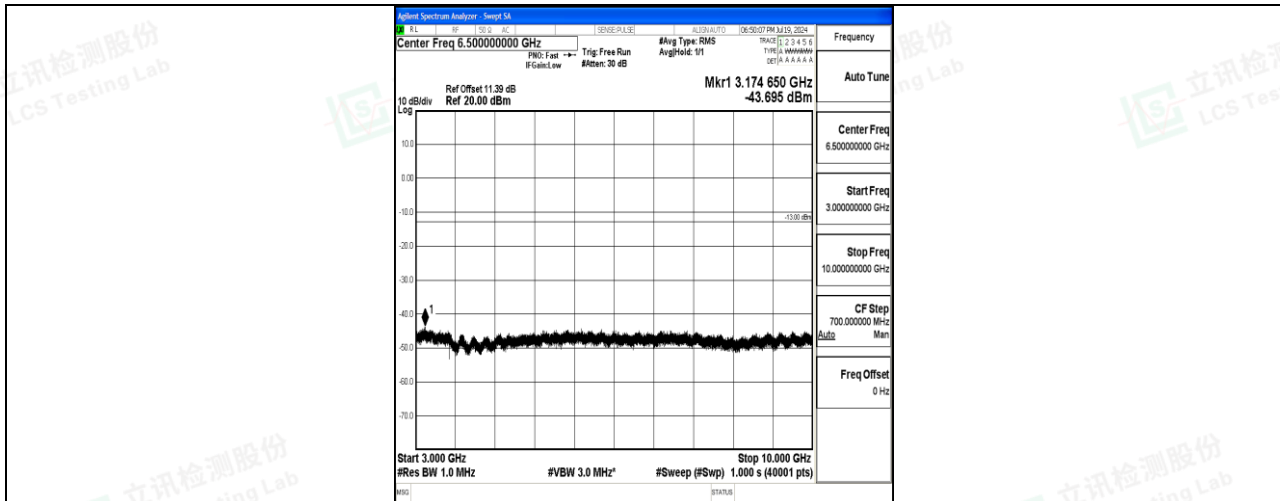


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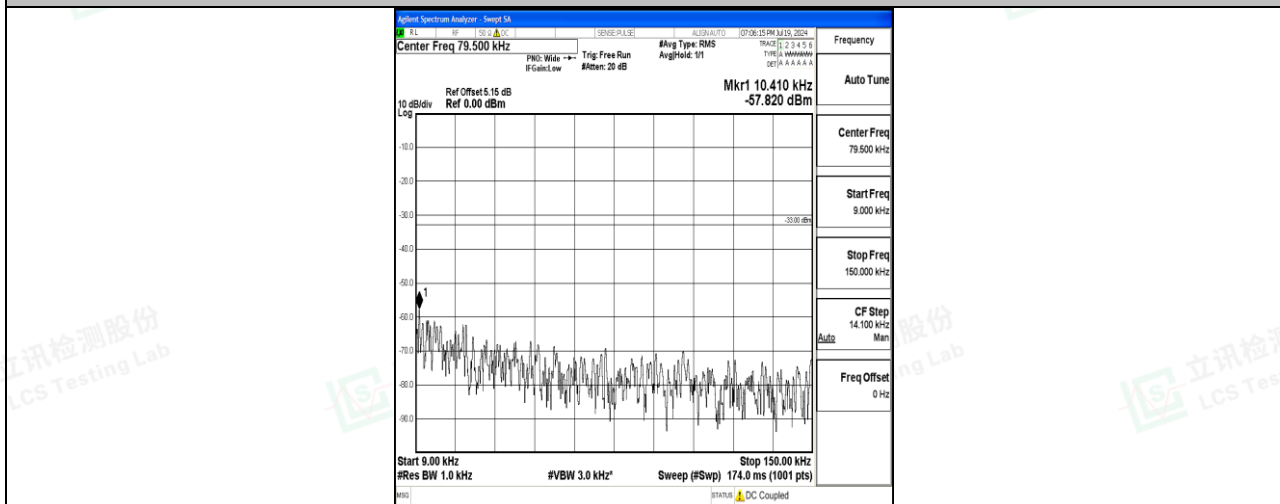
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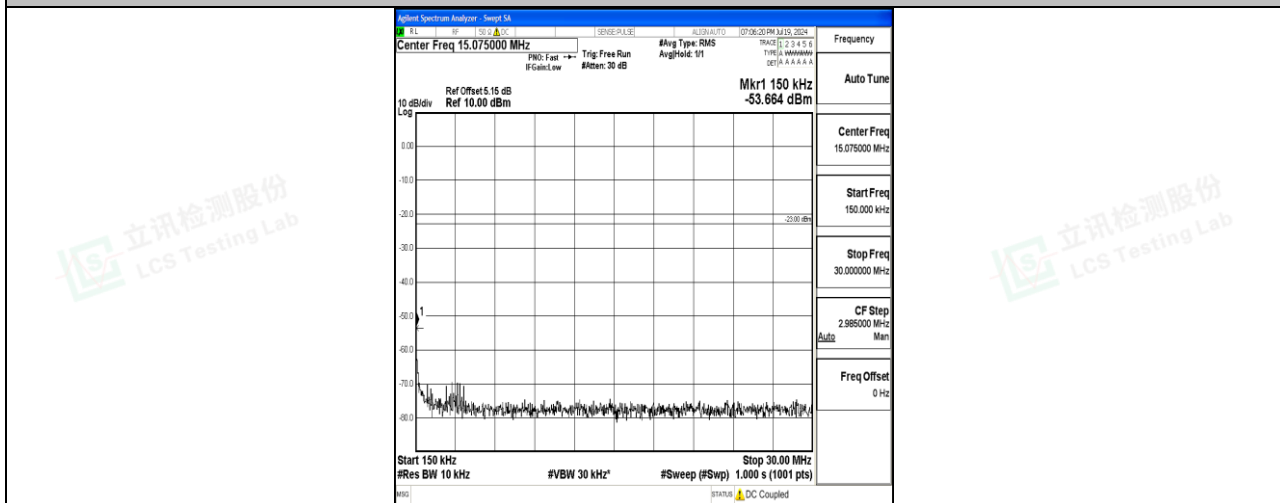
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Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000



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

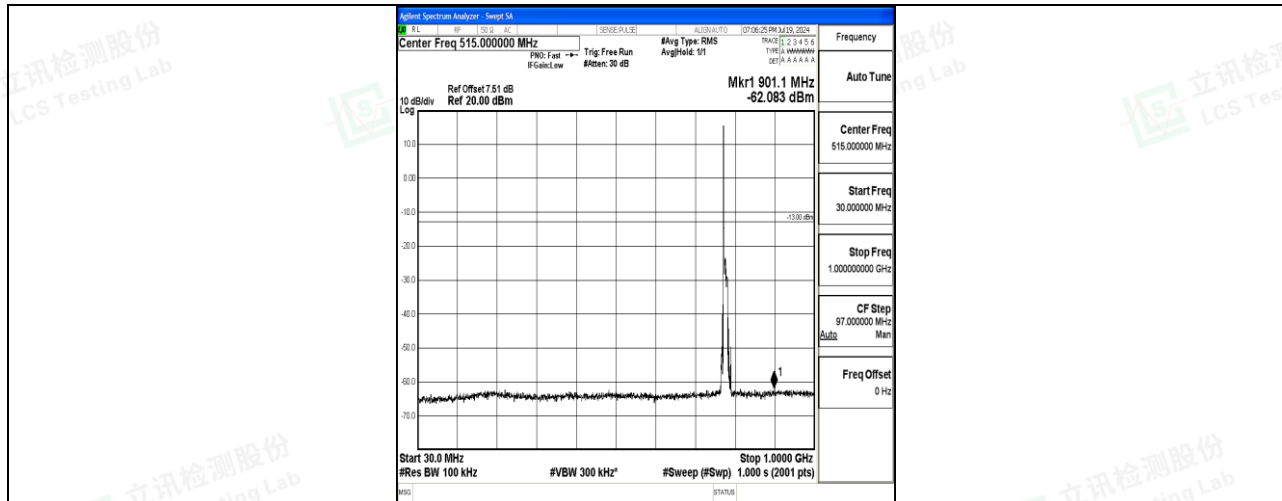


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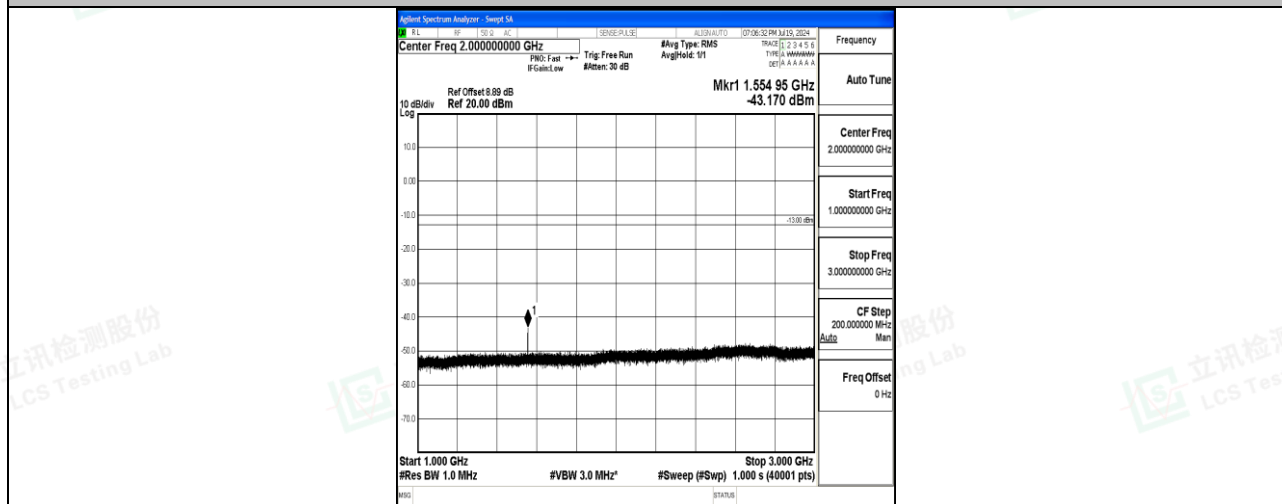
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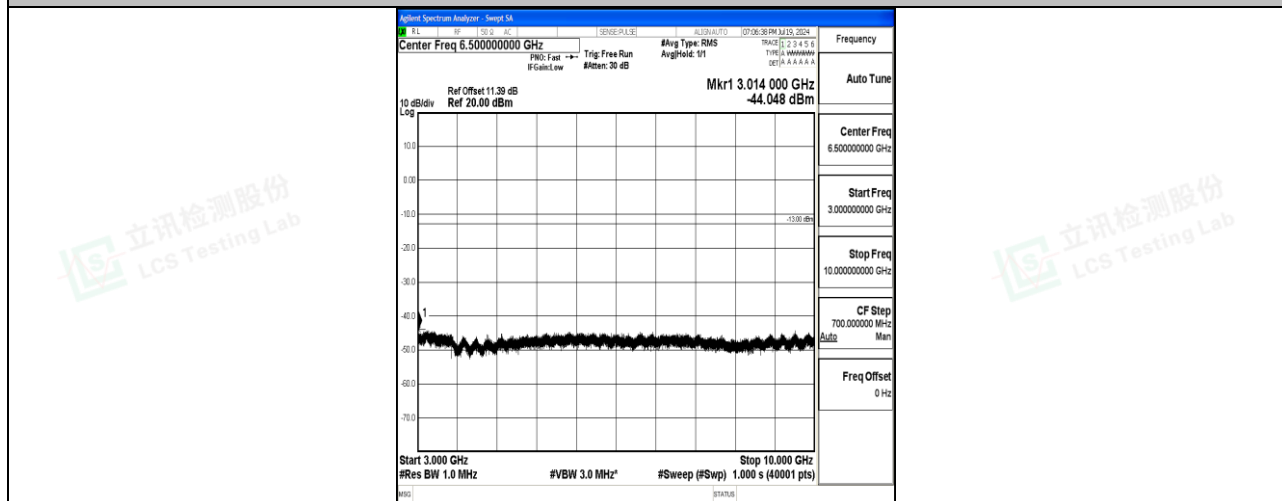
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Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000



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Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

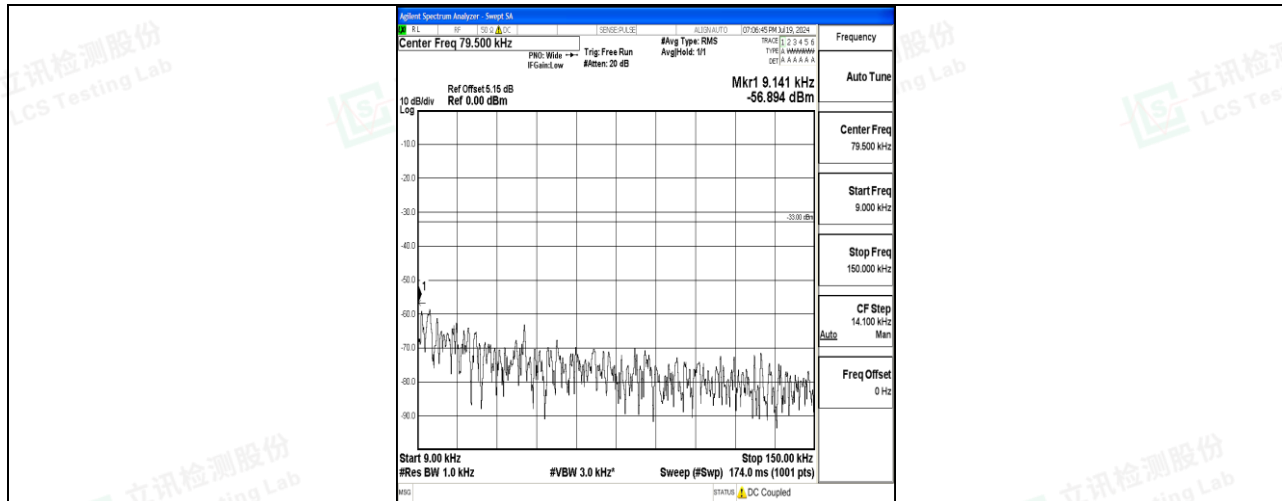


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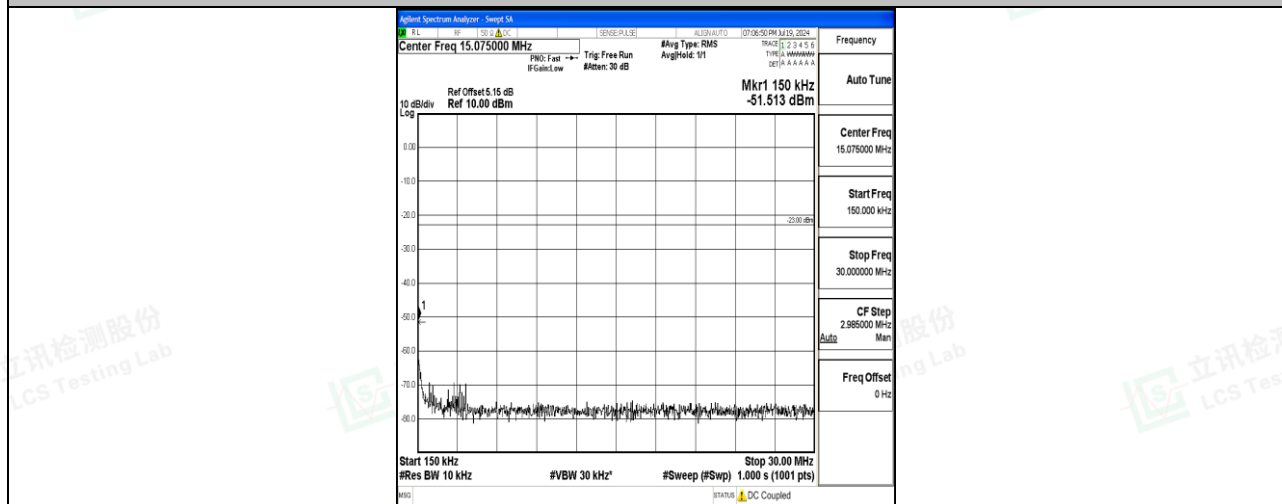
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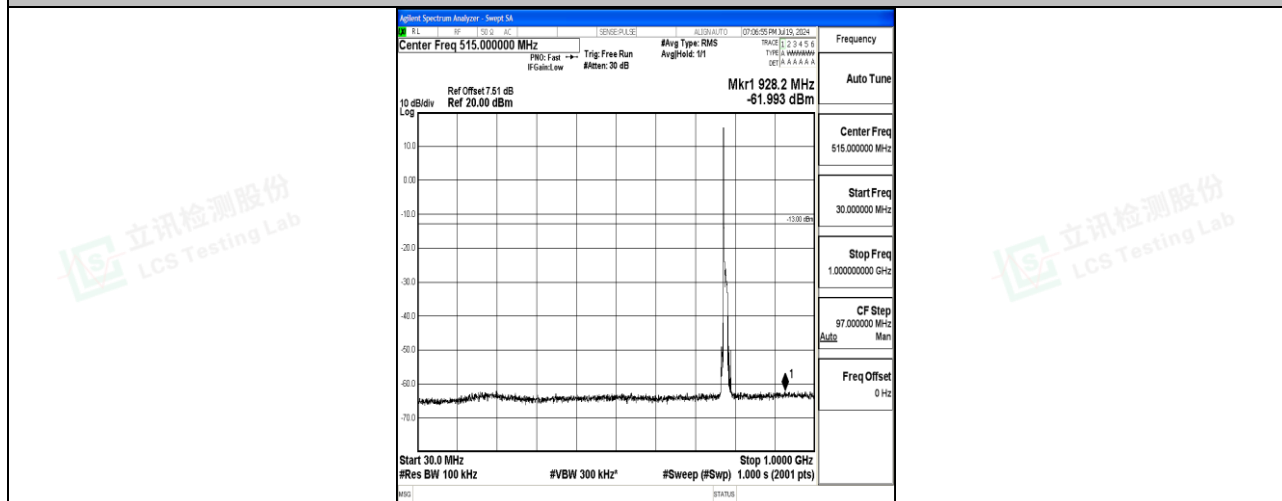
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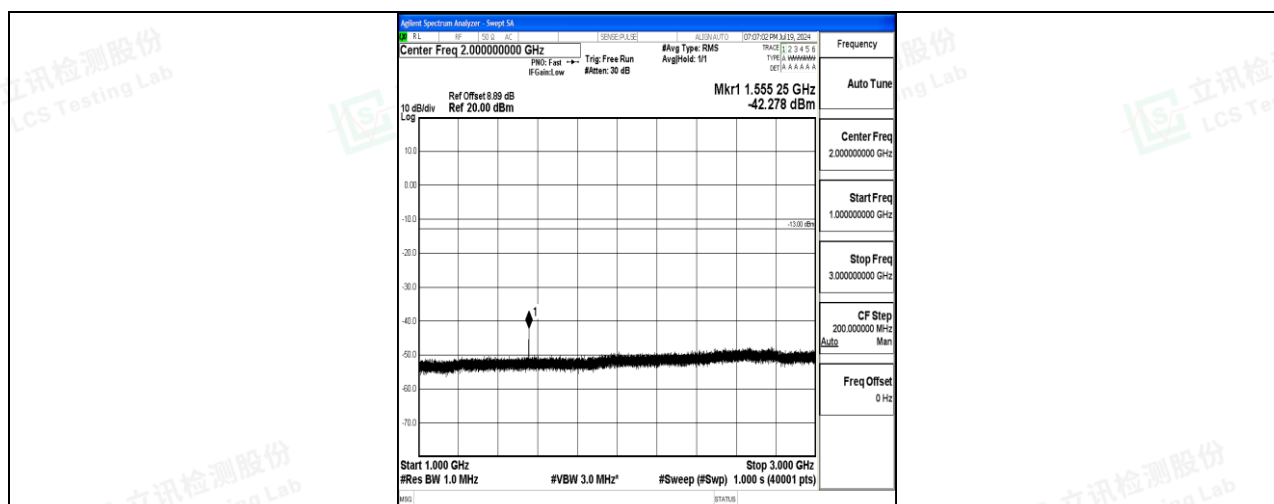


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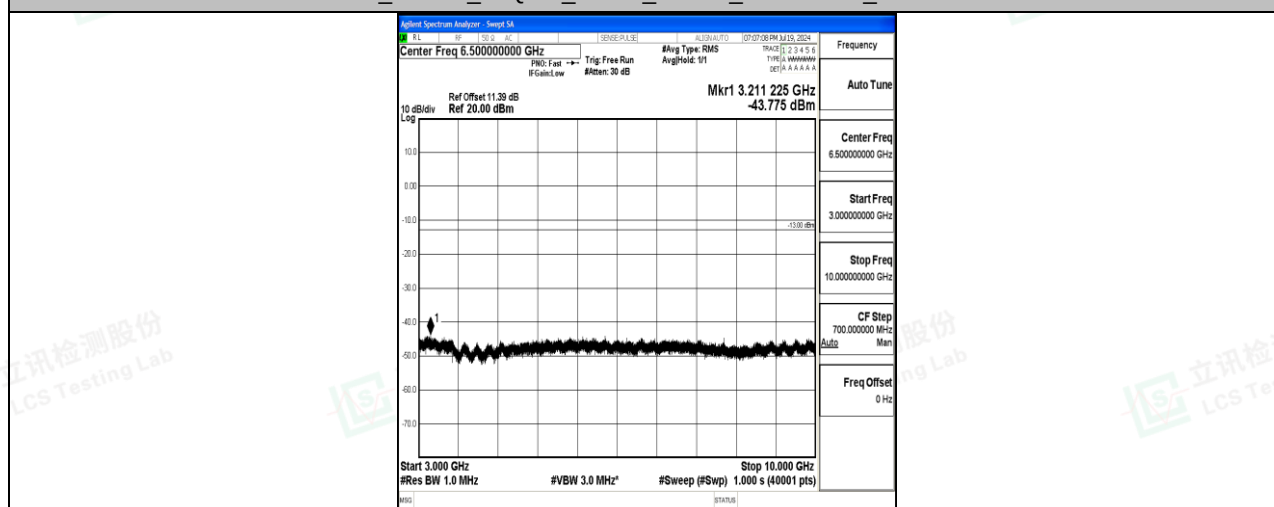
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Band13	10MHz	16QAM	23230	1RB#0	1000~3000	1000~3000
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Band13	10MHz	16QAM	23230	1RB#0	3000~10000	3000~10000
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