



Appendix J: Test Data for E-UTRA Band 13

Product Name: Mstick4

Test Model: MG-S04

Environmental Conditions

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





J.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	20.25	PASS
Band13	5MHz	16QAM	23205	1RB#0	19.18	PASS
Band13	5MHz	QPSK	23205	1RB#12	20.26	PASS
Band13	5MHz	16QAM	23205	1RB#12	19.16	PASS
Band13	5MHz	QPSK	23205	1RB#24	20.17	PASS
Band13	5MHz	16QAM	23205	1RB#24	19.04	PASS
Band13	5MHz	QPSK	23205	12RB#0	19.42	PASS
Band13	5MHz	16QAM	23205	12RB#0	18.44	PASS
Band13	5MHz	QPSK	23205	12RB#6	19.41	PASS
Band13	5MHz	16QAM	23205	12RB#6	18.37	PASS
Band13	5MHz	QPSK	23205	12RB#13	19.12	PASS
Band13	5MHz	16QAM	23205	12RB#13	18.17	PASS
Band13	5MHz	QPSK	23205	25RB#0	19.28	PASS
Band13	5MHz	16QAM	23205	25RB#0	18.32	PASS
Band13	5MHz	QPSK	23230	1RB#0	20.06	PASS
Band13	5MHz	16QAM	23230	1RB#0	19.15	PASS
Band13	5MHz	QPSK	23230	1RB#12	20.21	PASS
Band13	5MHz	16QAM	23230	1RB#12	19.27	PASS
Band13	5MHz	QPSK	23230	1RB#24	20.07	PASS
Band13	5MHz	16QAM	23230	1RB#24	19.09	PASS
Band13	5MHz	QPSK	23230	12RB#0	19.19	PASS
Band13	5MHz	16QAM	23230	12RB#0	18.30	PASS
Band13	5MHz	QPSK	23230	12RB#6	19.20	PASS
Band13	5MHz	16QAM	23230	12RB#6	18.26	PASS
Band13	5MHz	QPSK	23230	12RB#13	19.32	PASS
Band13	5MHz	16QAM	23230	12RB#13	18.40	PASS
Band13	5MHz	QPSK	23230	25RB#0	19.30	PASS
Band13	5MHz	16QAM	23230	25RB#0	18.31	PASS
Band13	5MHz	QPSK	23255	1RB#0	20.13	PASS
Band13	5MHz	16QAM	23255	1RB#0	19.05	PASS
Band13	5MHz	QPSK	23255	1RB#12	20.14	PASS
Band13	5MHz	16QAM	23255	1RB#12	19.09	PASS
Band13	5MHz	QPSK	23255	1RB#24	20.03	PASS
Band13	5MHz	16QAM	23255	1RB#24	18.95	PASS
Band13	5MHz	QPSK	23255	12RB#0	18.96	PASS
Band13	5MHz	16QAM	23255	12RB#0	17.98	PASS



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Band13	5MHz	QPSK	23255	12RB#6	18.95	PASS
Band13	5MHz	16QAM	23255	12RB#6	18.01	PASS
Band13	5MHz	QPSK	23255	12RB#13	19.09	PASS
Band13	5MHz	16QAM	23255	12RB#13	18.08	PASS
Band13	5MHz	QPSK	23255	25RB#0	19.04	PASS
Band13	5MHz	16QAM	23255	25RB#0	18.13	PASS
Band13	10MHz	QPSK	23230	1RB#0	20.26	PASS
Band13	10MHz	16QAM	23230	1RB#0	19.27	PASS
Band13	10MHz	QPSK	23230	1RB#24	20.22	PASS
Band13	10MHz	16QAM	23230	1RB#24	19.25	PASS
Band13	10MHz	QPSK	23230	1RB#49	20.10	PASS
Band13	10MHz	16QAM	23230	1RB#49	19.18	PASS
Band13	10MHz	QPSK	23230	25RB#0	19.43	PASS
Band13	10MHz	16QAM	23230	25RB#0	18.55	PASS
Band13	10MHz	QPSK	23230	25RB#12	19.49	PASS
Band13	10MHz	16QAM	23230	25RB#12	18.53	PASS
Band13	10MHz	QPSK	23230	25RB#25	19.52	PASS
Band13	10MHz	16QAM	23230	25RB#25	18.54	PASS
Band13	10MHz	QPSK	23230	50RB#0	19.50	PASS
Band13	10MHz	16QAM	23230	50RB#0	18.60	PASS



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J.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	4.72	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.38	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.64	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.26	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.79	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.53	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.88	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.49	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.40	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.96	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.73	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.40	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.58	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.40	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.83	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.49	13	PASS



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Test Graphs

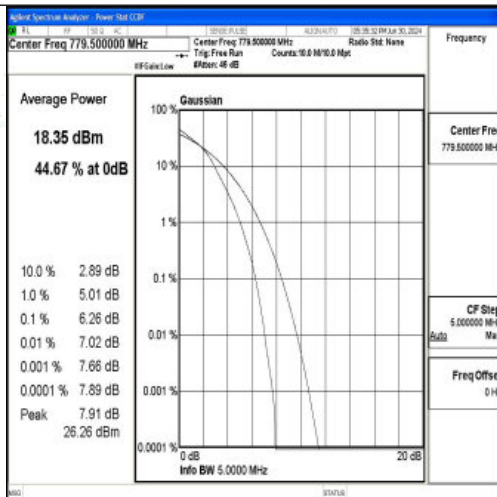


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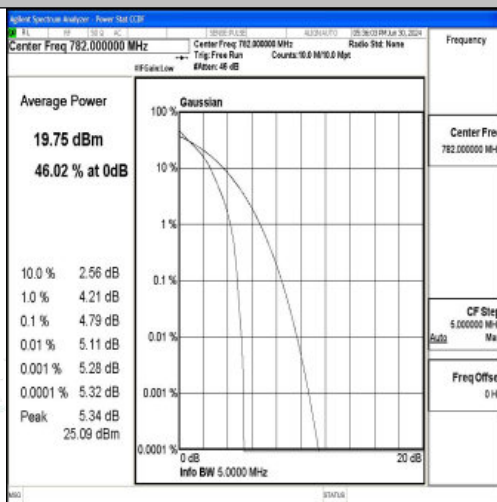
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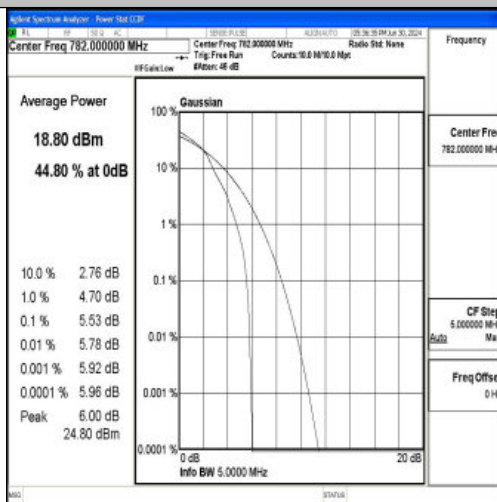
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Band13-5MHz-16QAM-23205-25RB#0-PASS



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



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



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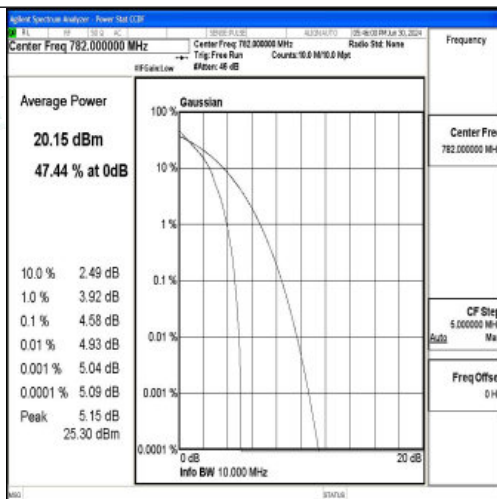


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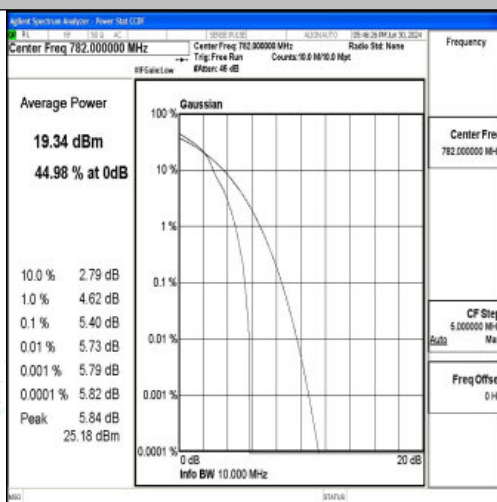
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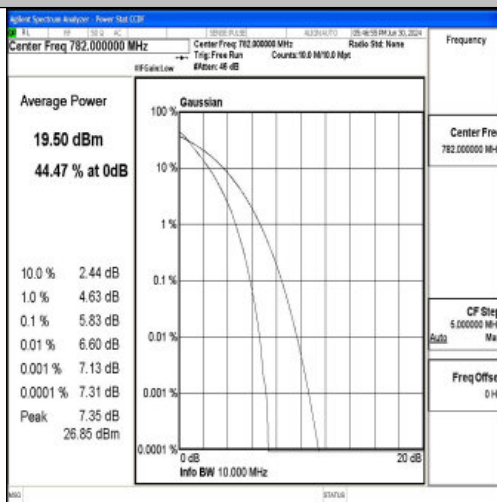
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Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS



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

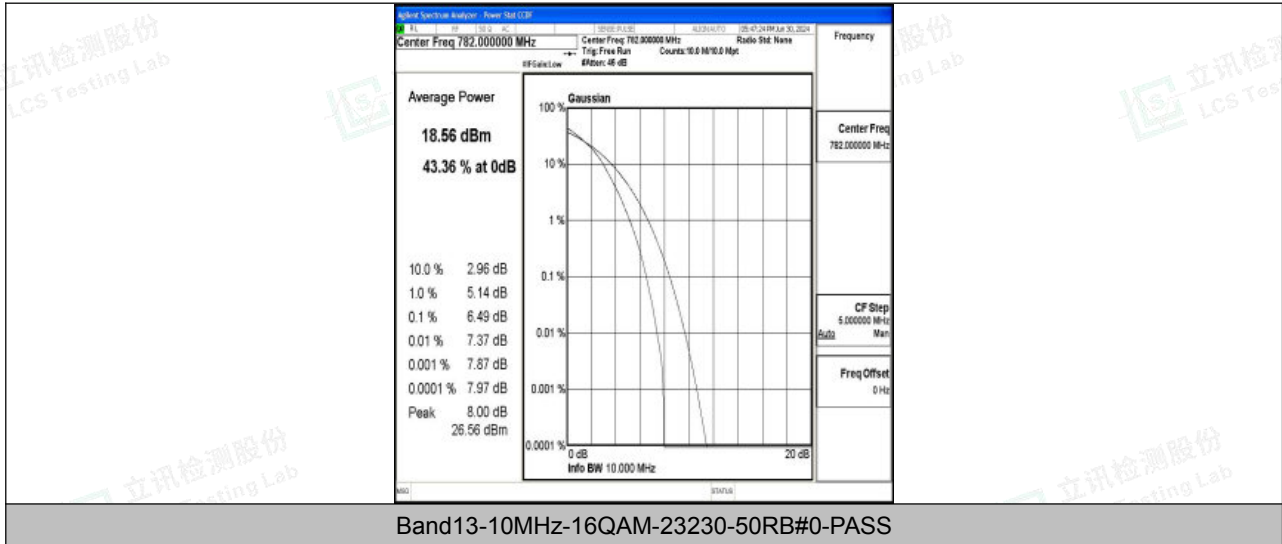


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J.3 26dB Bandwidth and Occupied Bandwidth

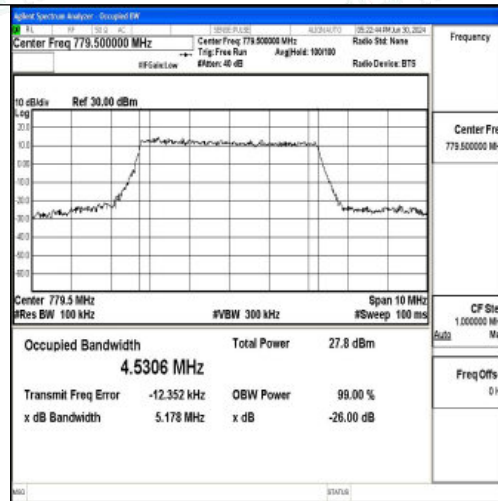
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5306	5.178	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5325	5.170	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5189	5.154	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5412	5.219	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5053	5.125	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5248	5.133	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0442	10.22	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0379	10.13	PASS

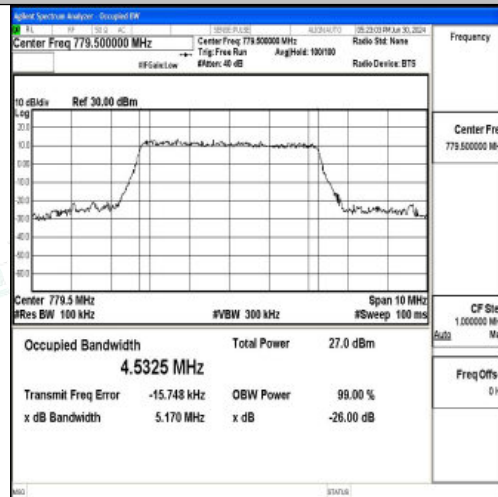




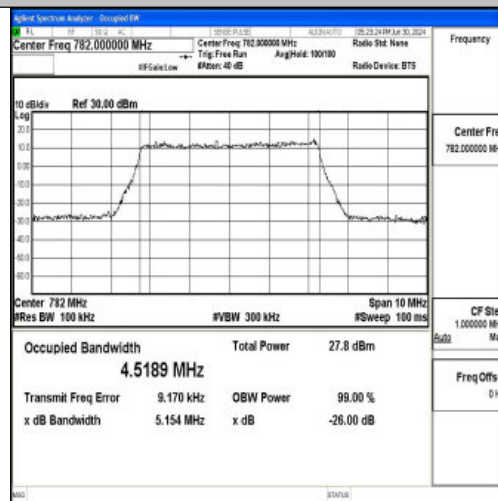
Test Graphs



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



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



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

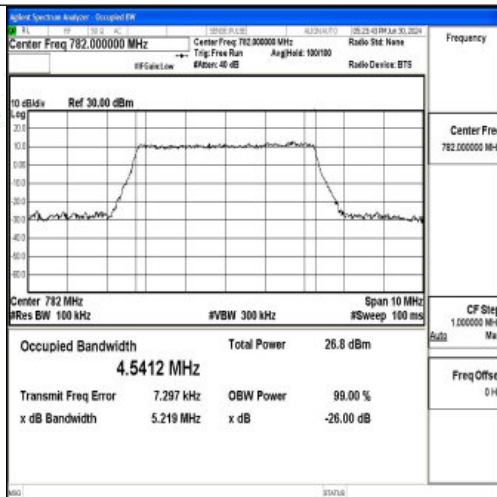


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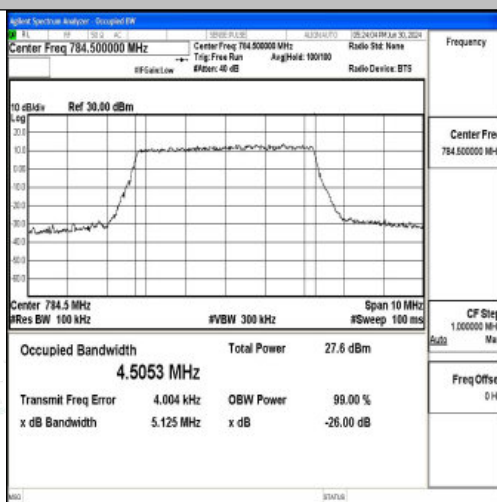
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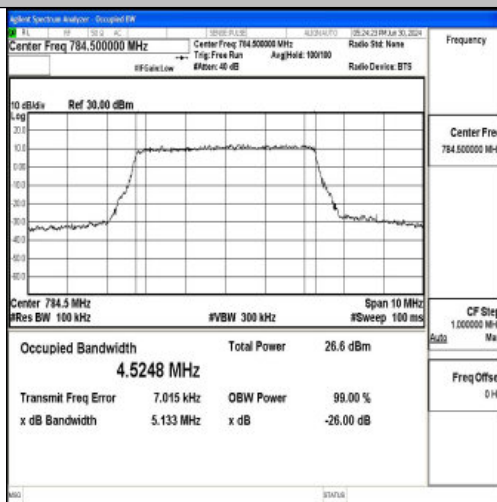
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Band13-5MHz-16QAM-23230-25RB#0-PASS



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



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



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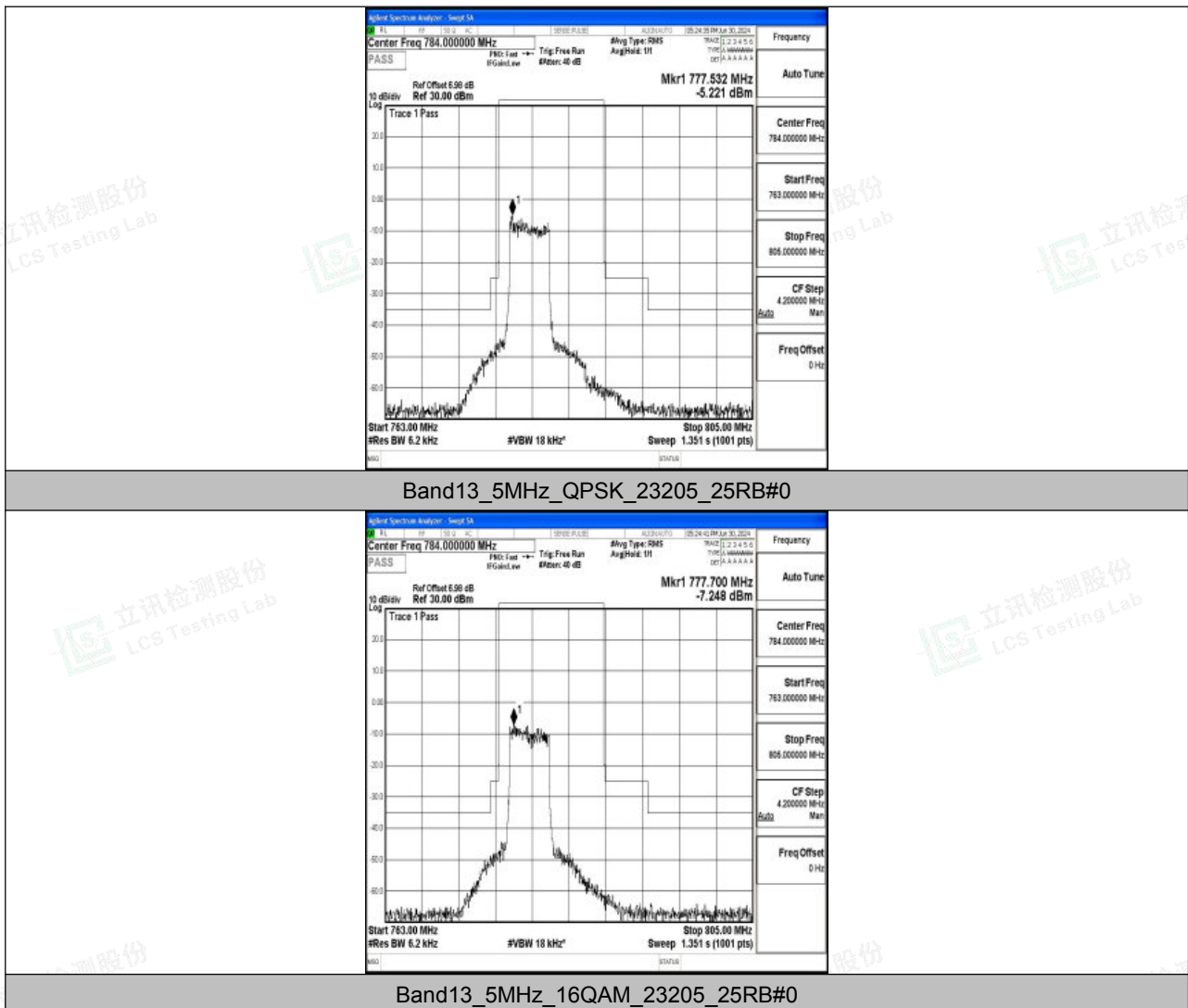


J.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.97	-49.22	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.38	-50.25	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.12	-48.64	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.79	-48.81	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.63	-51.42	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.59	-52.91	PASS

Test Graphs

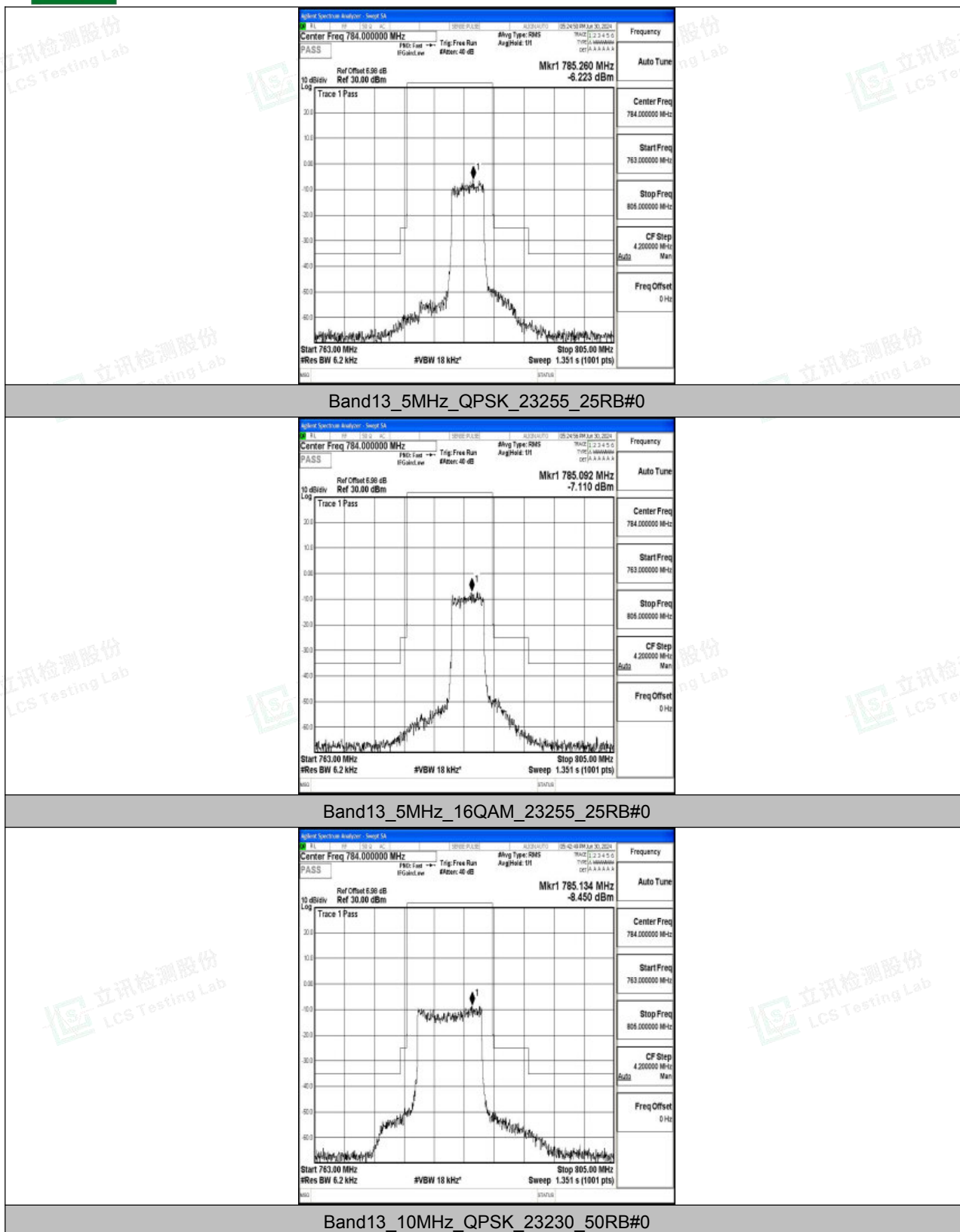


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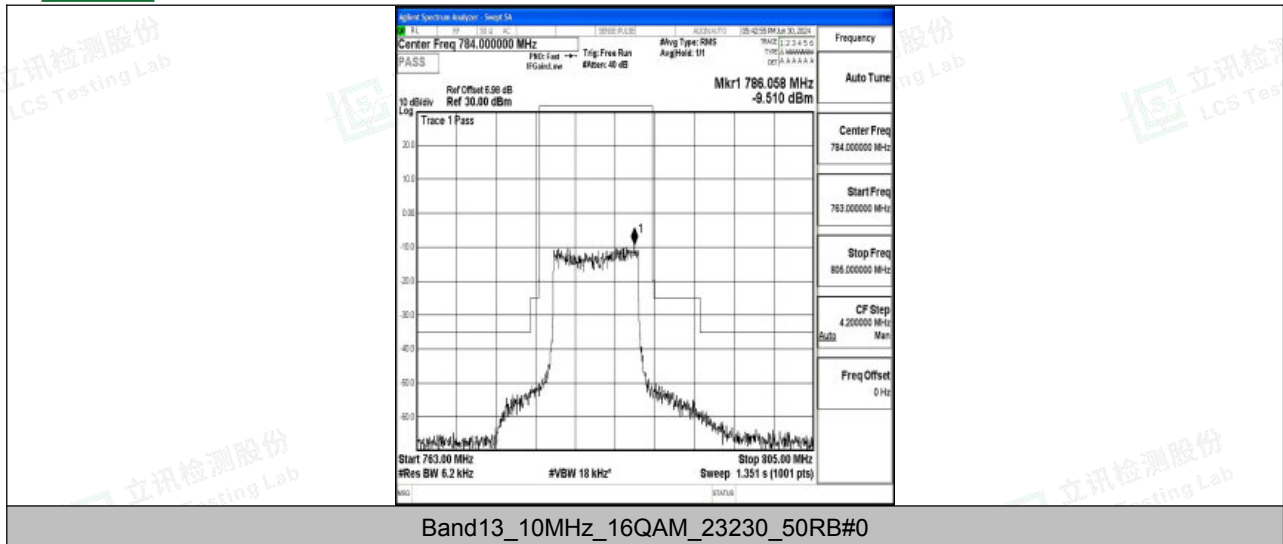


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J.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-55.82	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-52.28	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-61.71	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-47.71	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-44.17	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-60.79	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-51.81	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-62.05	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-47.87	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-44.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.79	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-50.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-61.45	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-47.82	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-44.28	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-57.35	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-52.34	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.08	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-47.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-44.17	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-57.41	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-50.86	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-61.94	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-46.97	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-43.98	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-55.58	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-52.43	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-62.28	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-47.95	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-44.12	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-57.09	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-52.57	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-61.76	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-47.76	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-43.96	PASS



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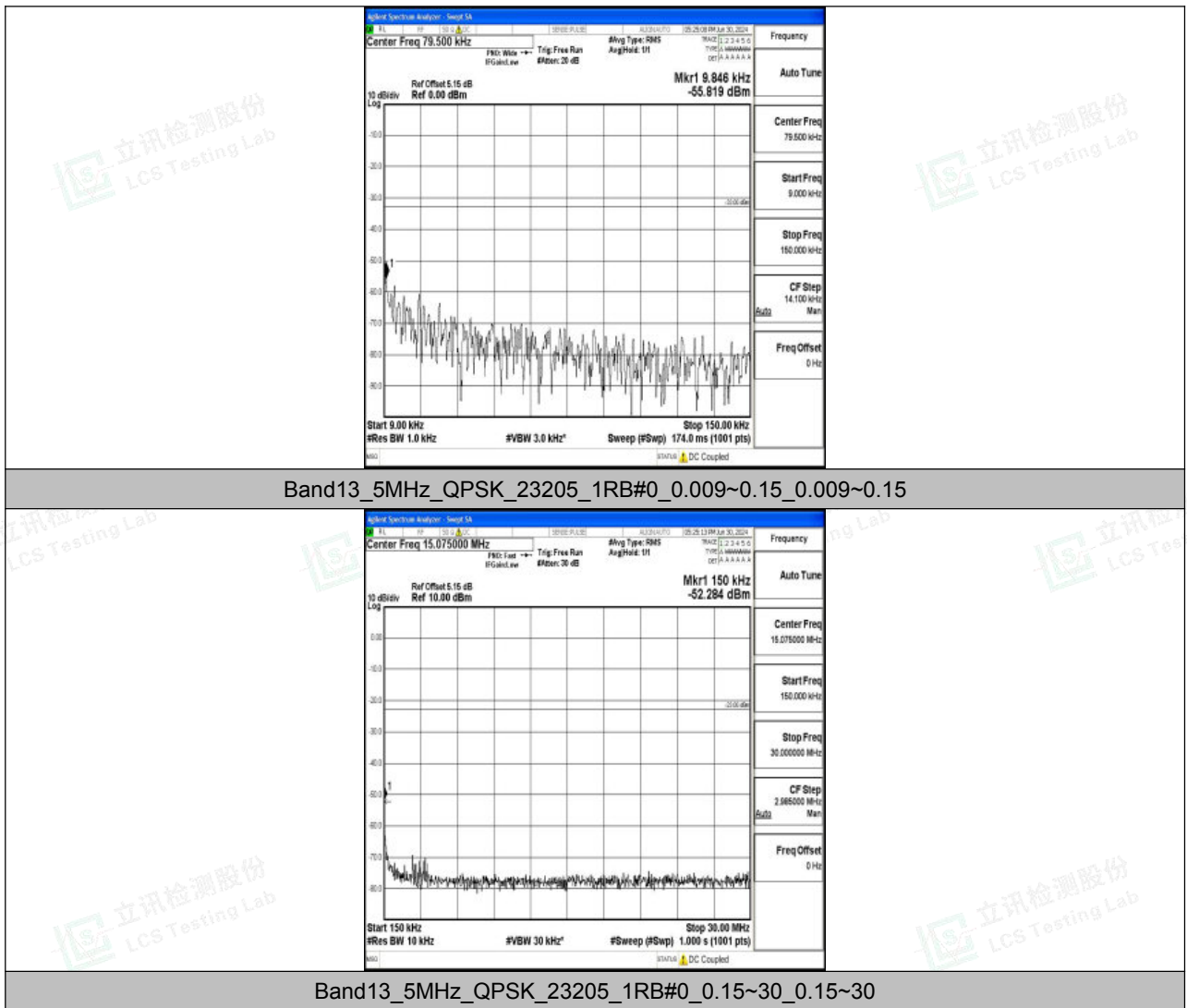
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Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-58.02	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-53.86	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-62.12	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-47.40	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-43.96	PASS

Test Graphs



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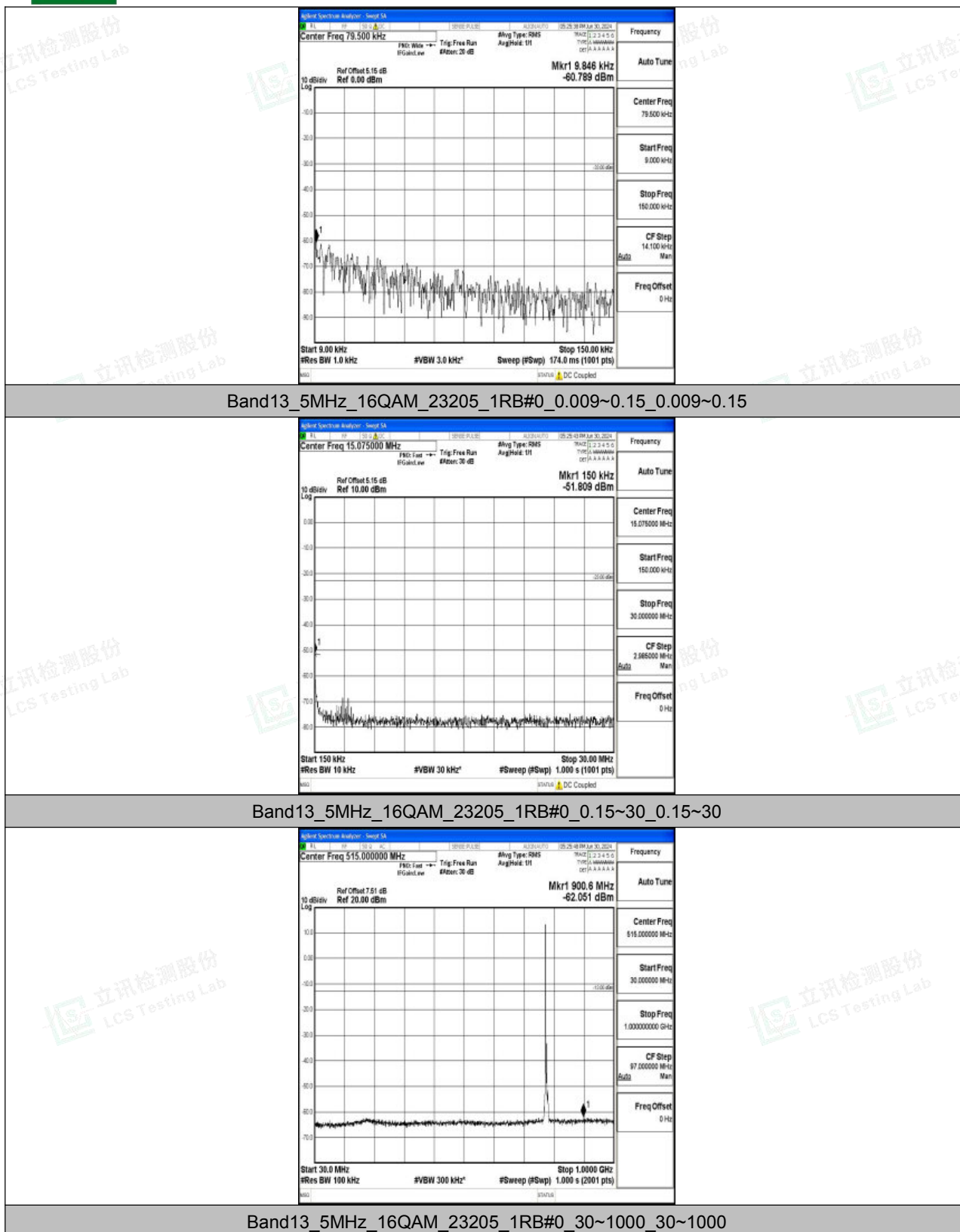


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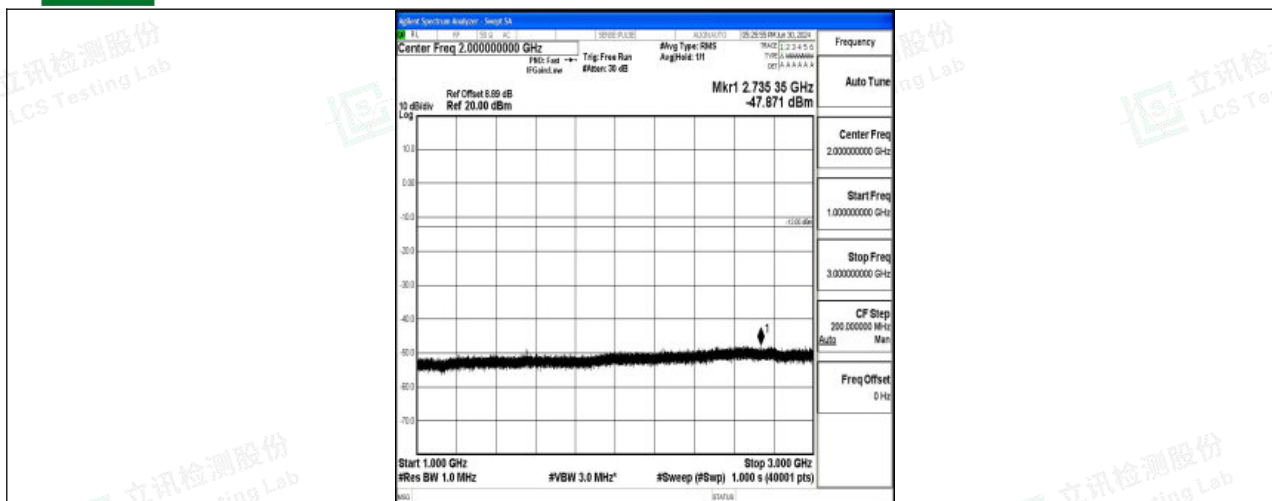


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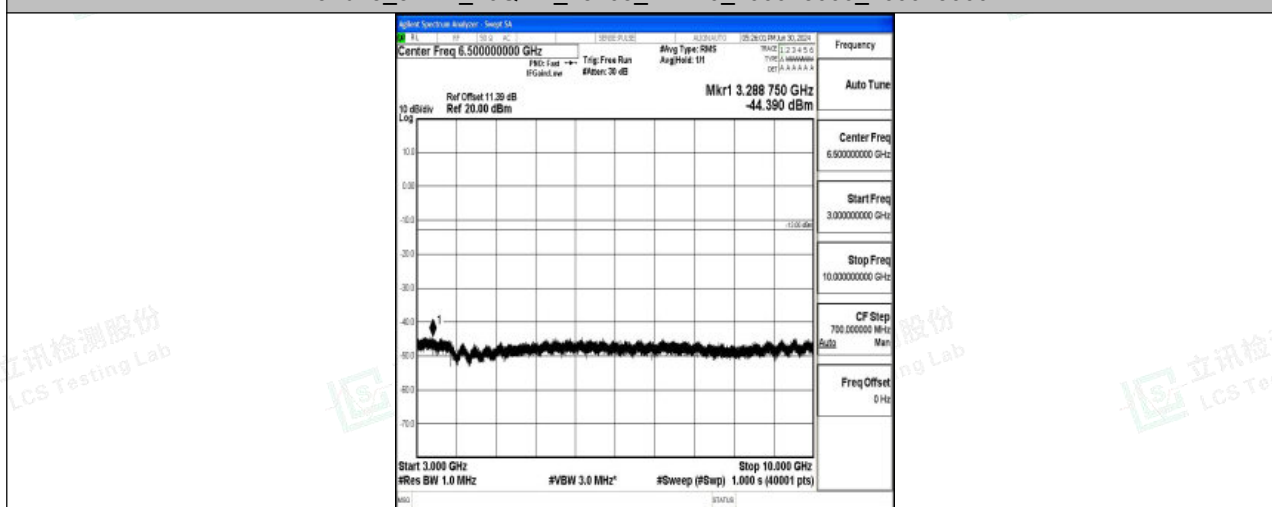
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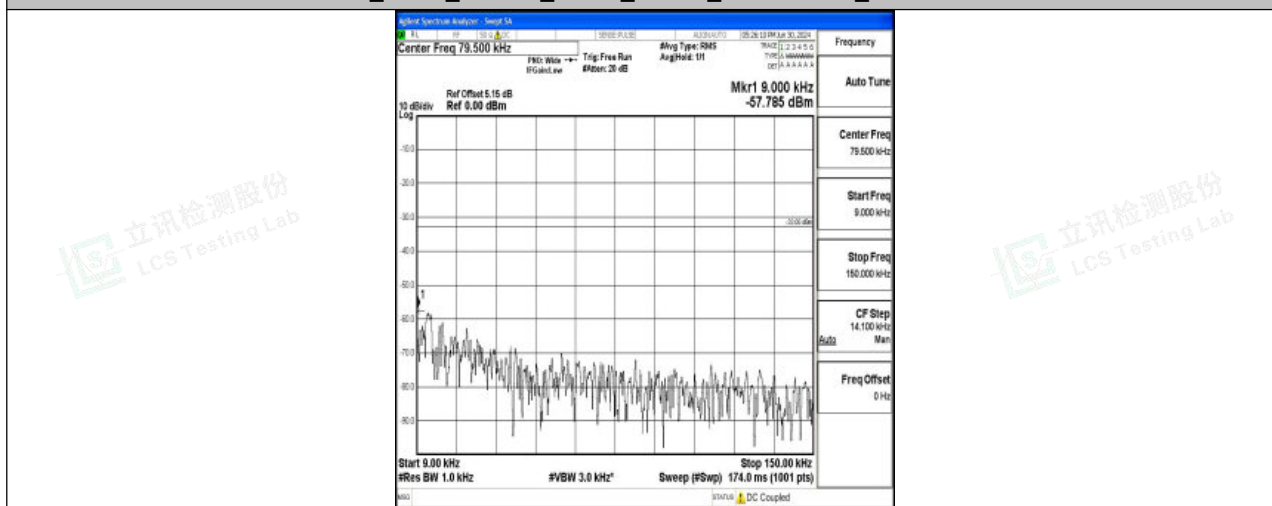
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Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000



Band13_5MHz_16QAM_23205_1RB#0_3000~10000_3000~10000



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

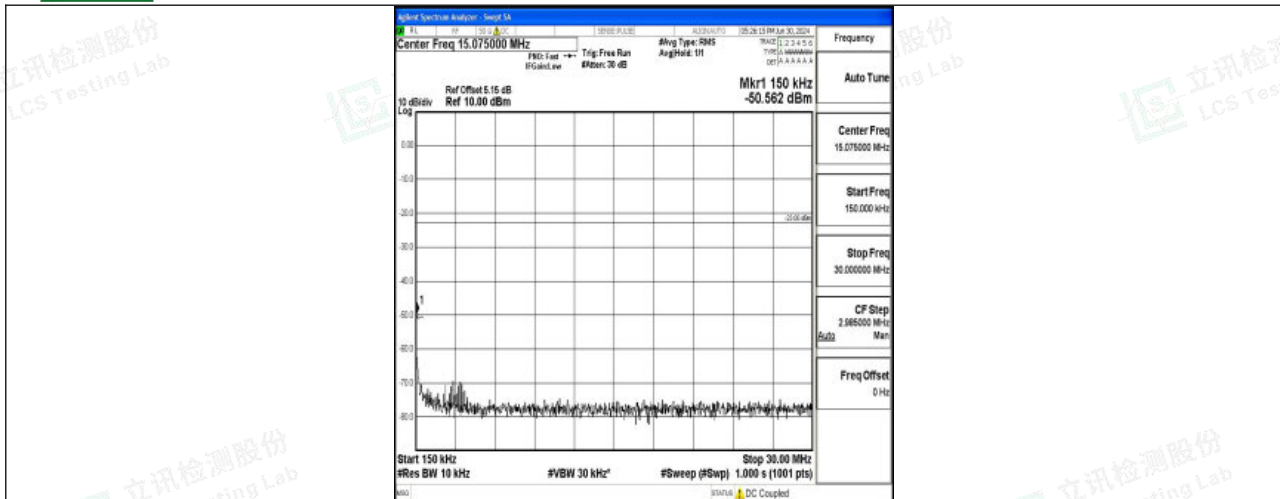


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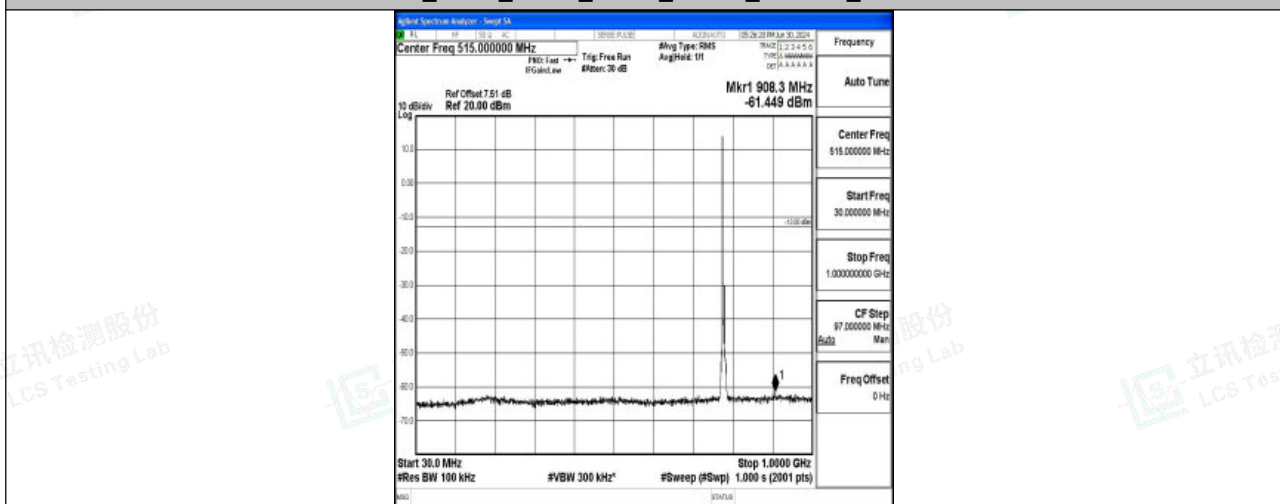
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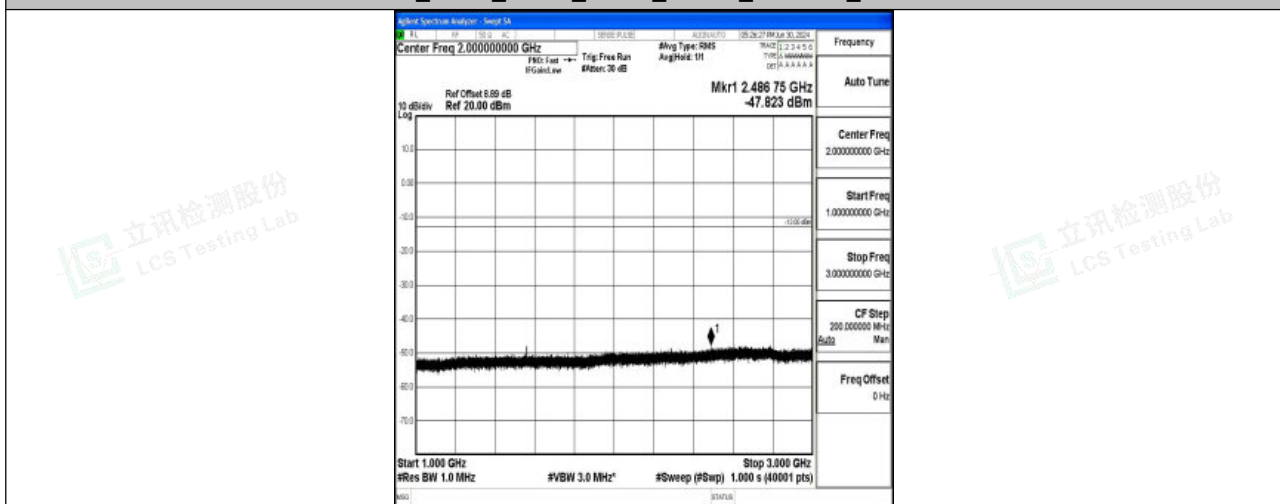
Scan code to check authenticity



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



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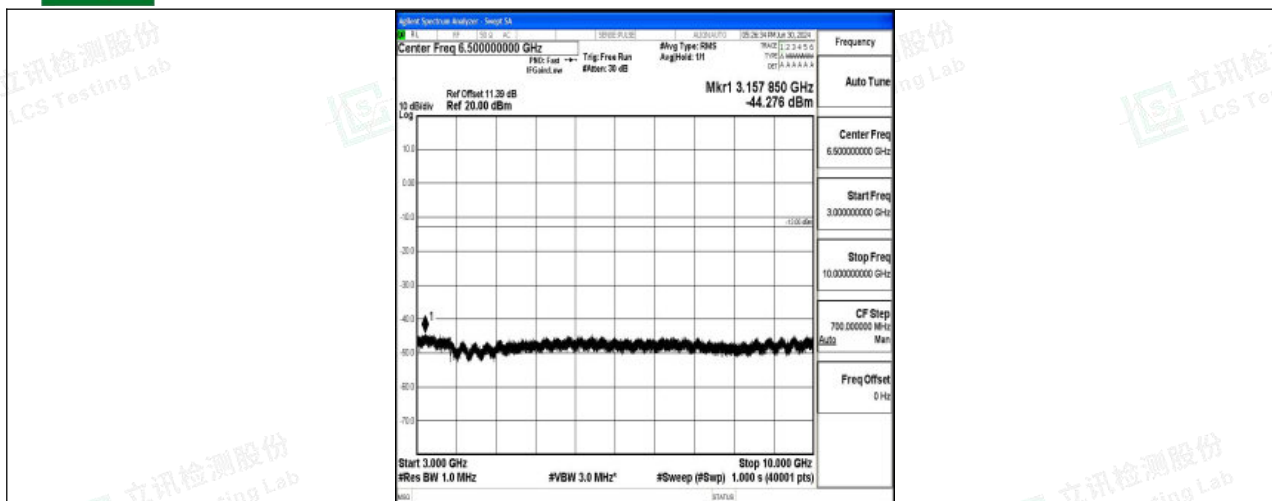


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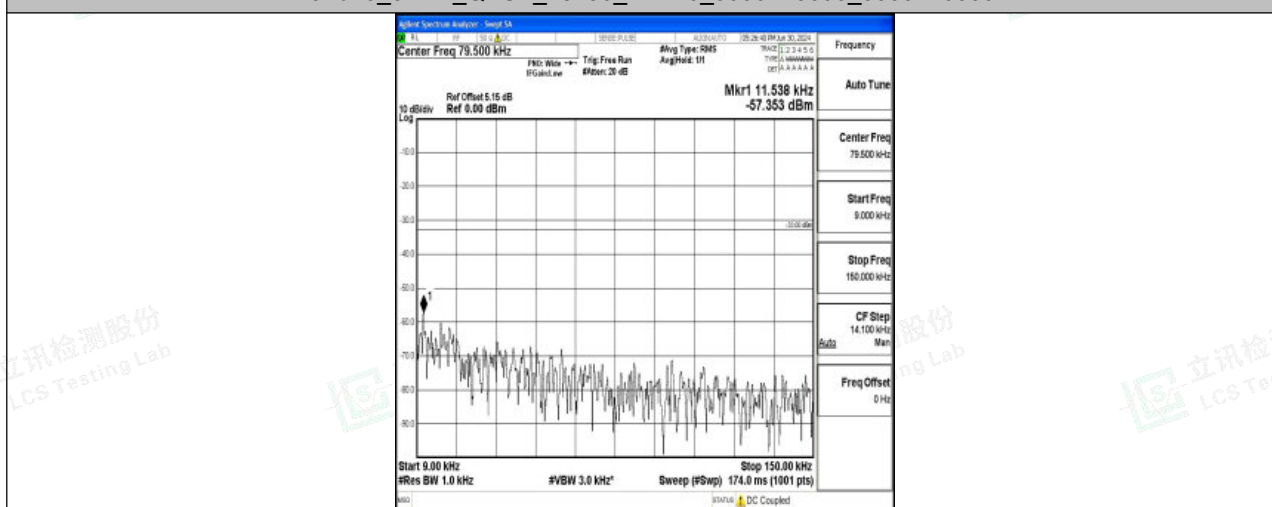
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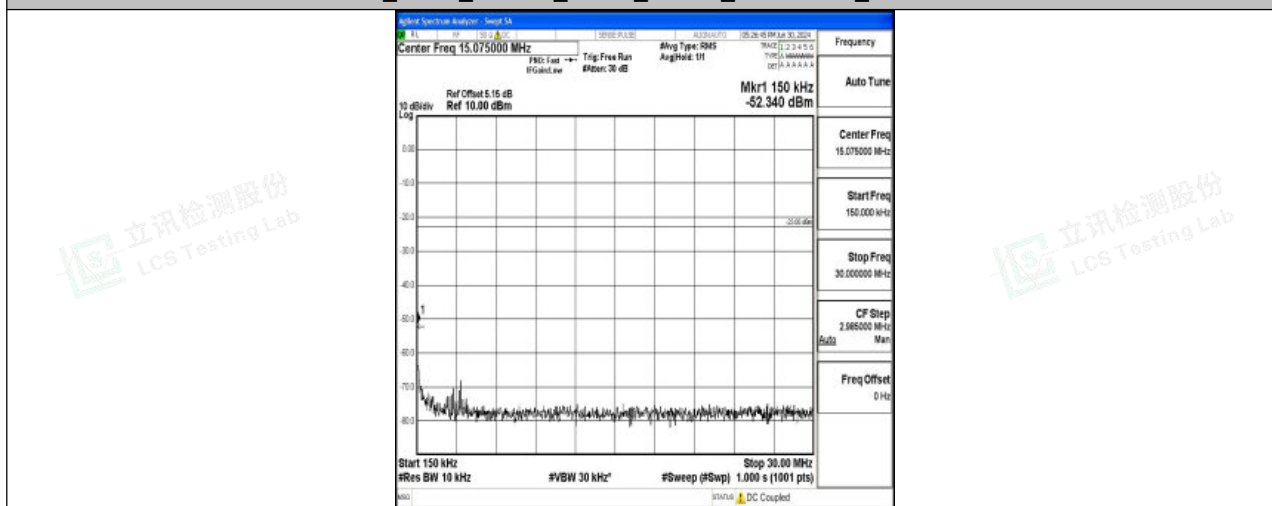
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Band13_5MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



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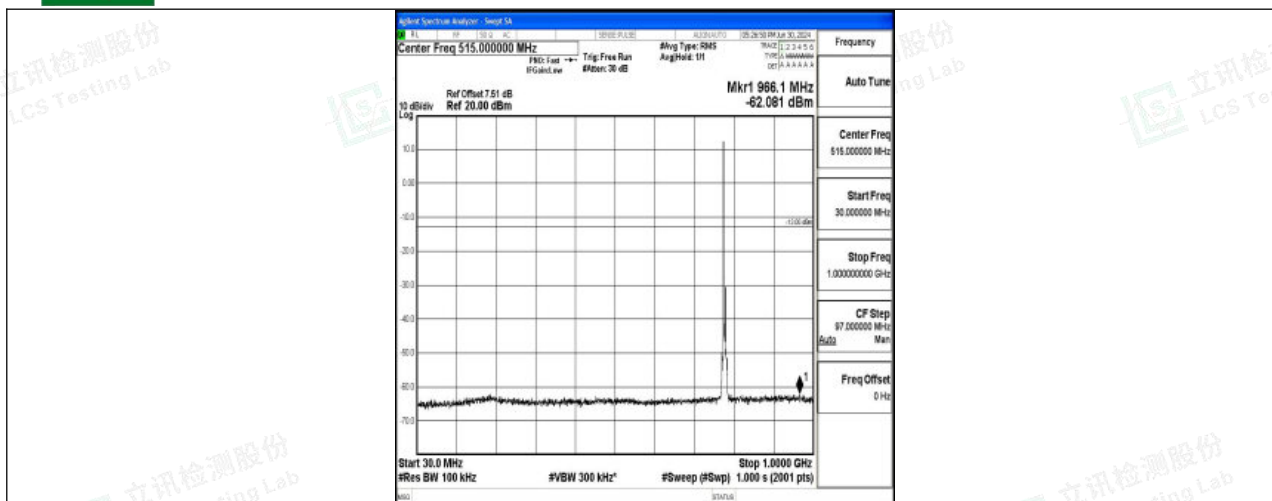


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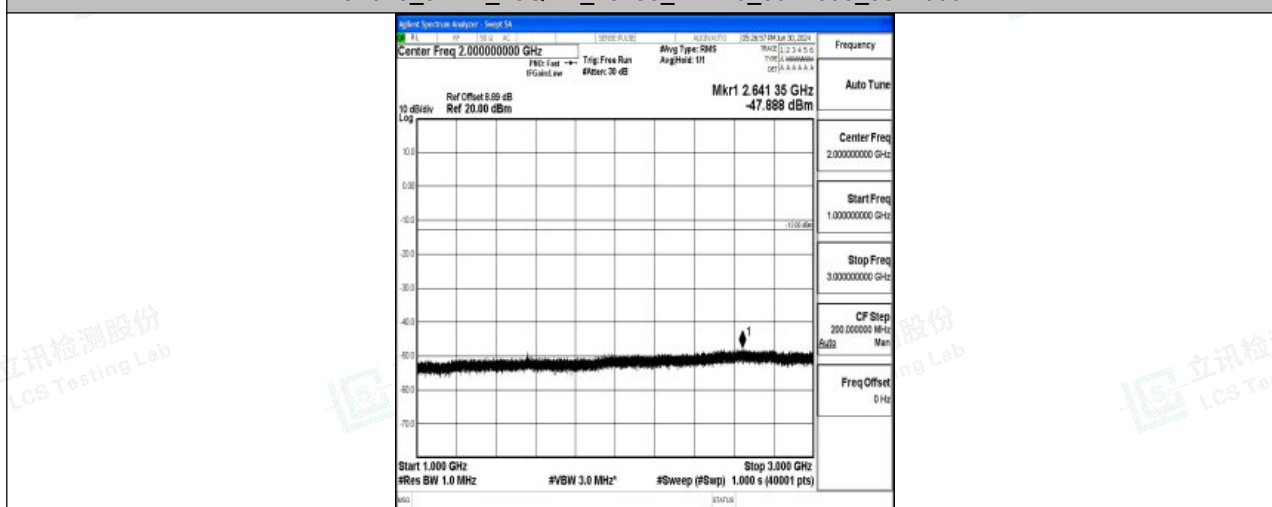
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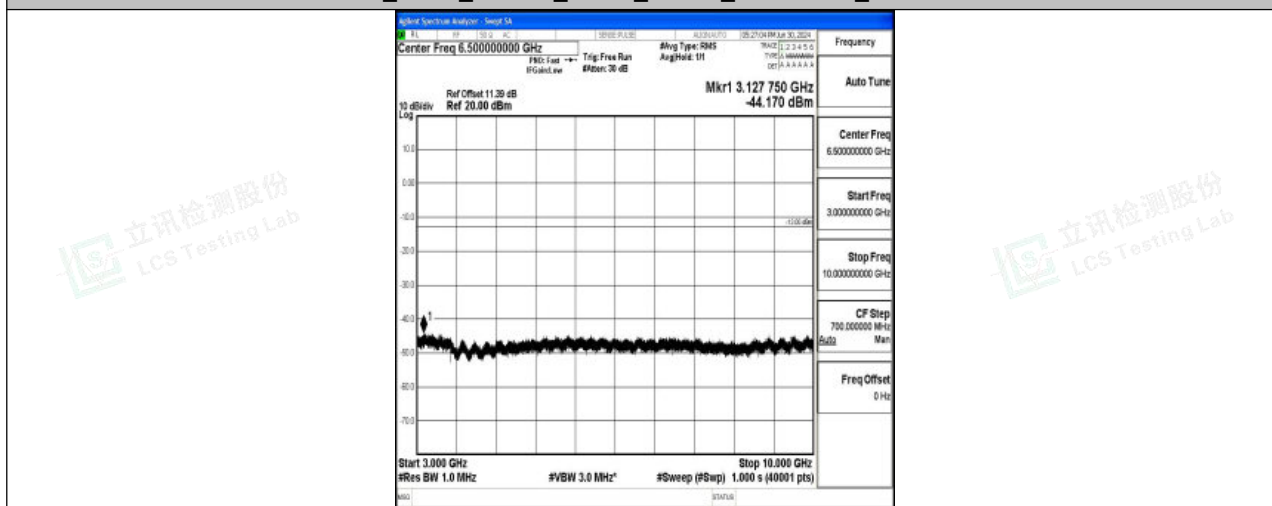
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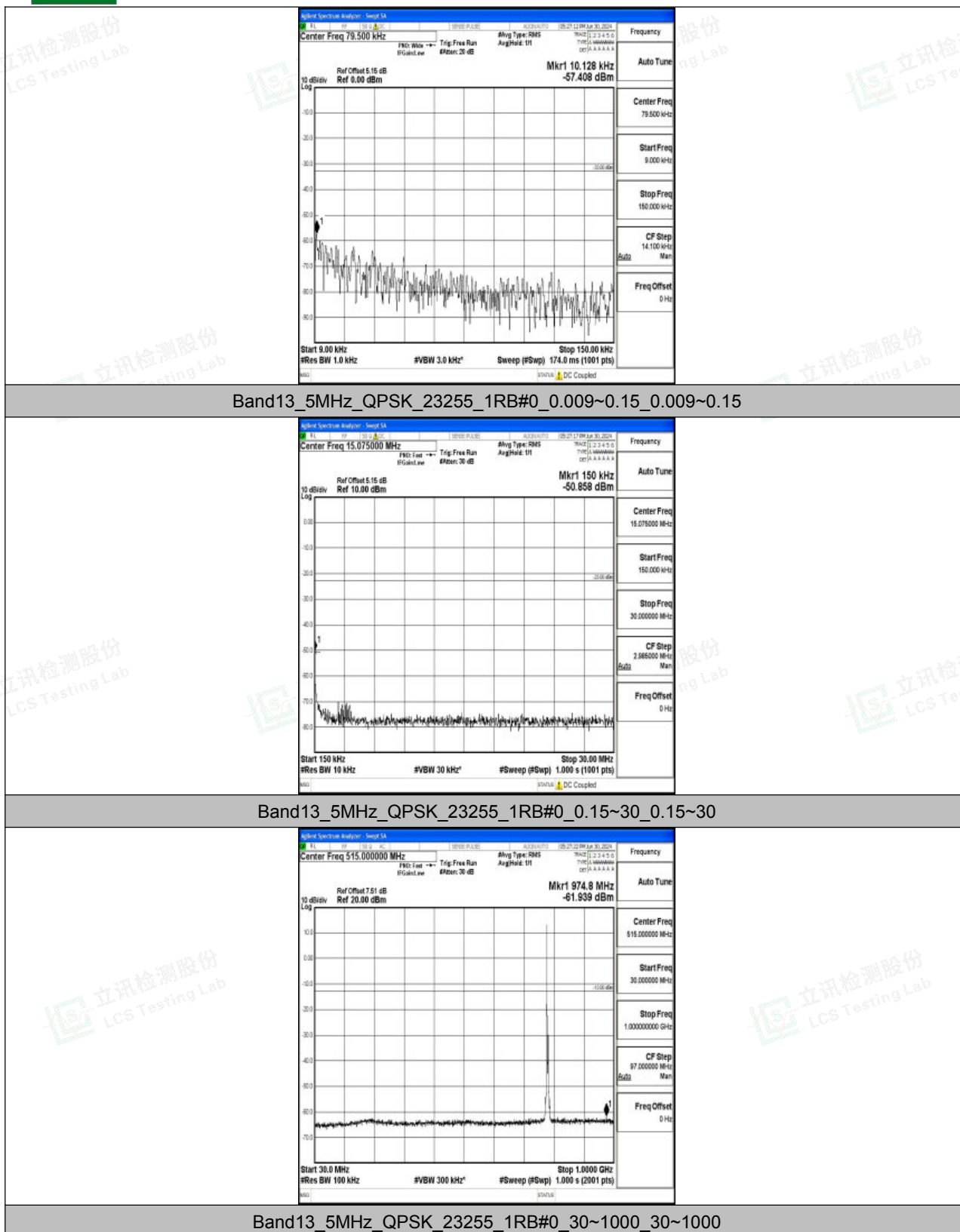


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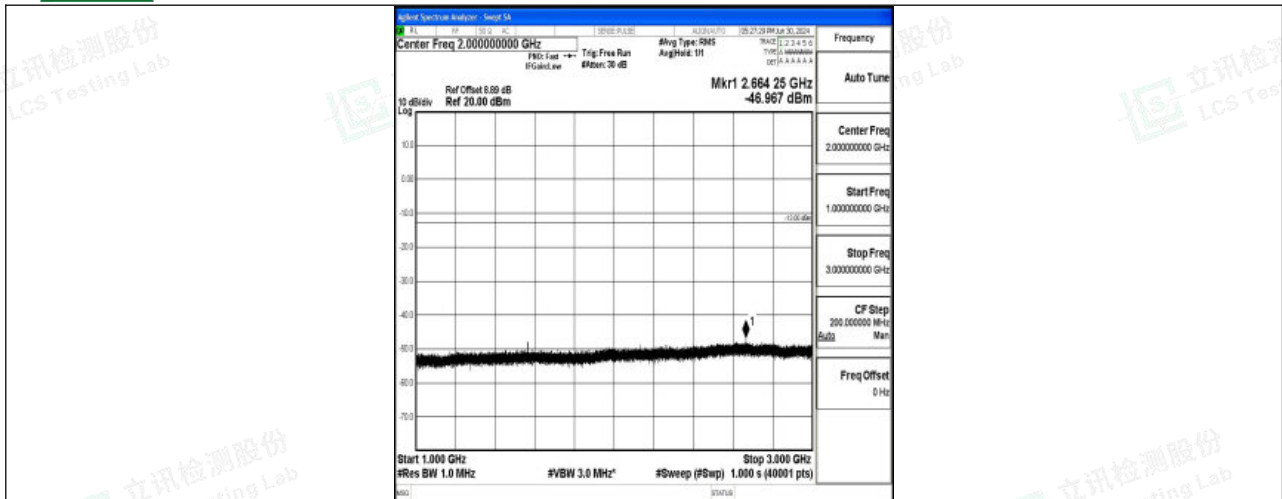


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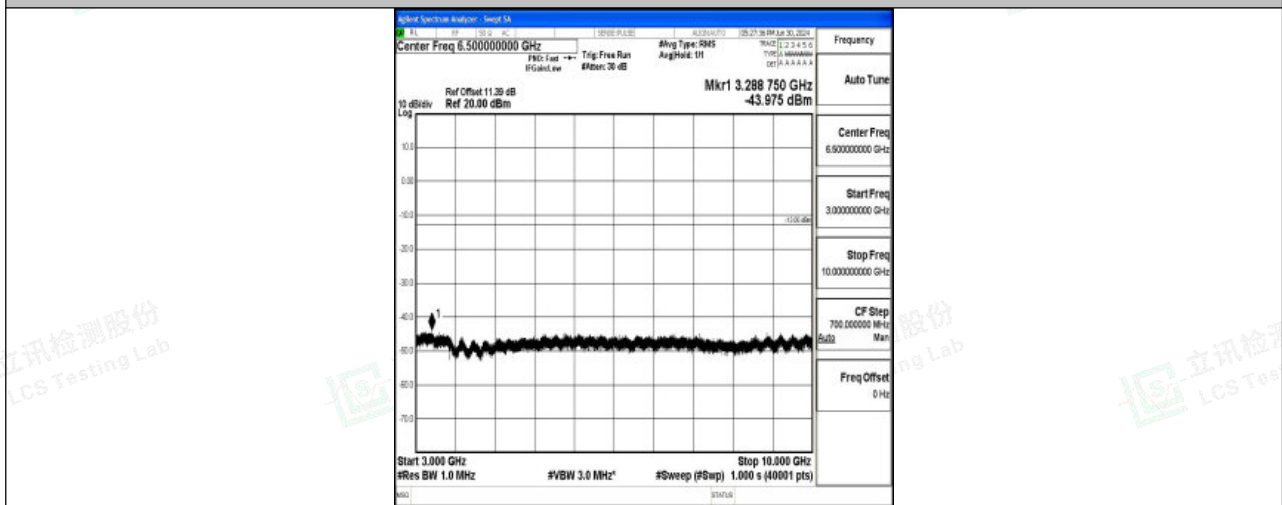
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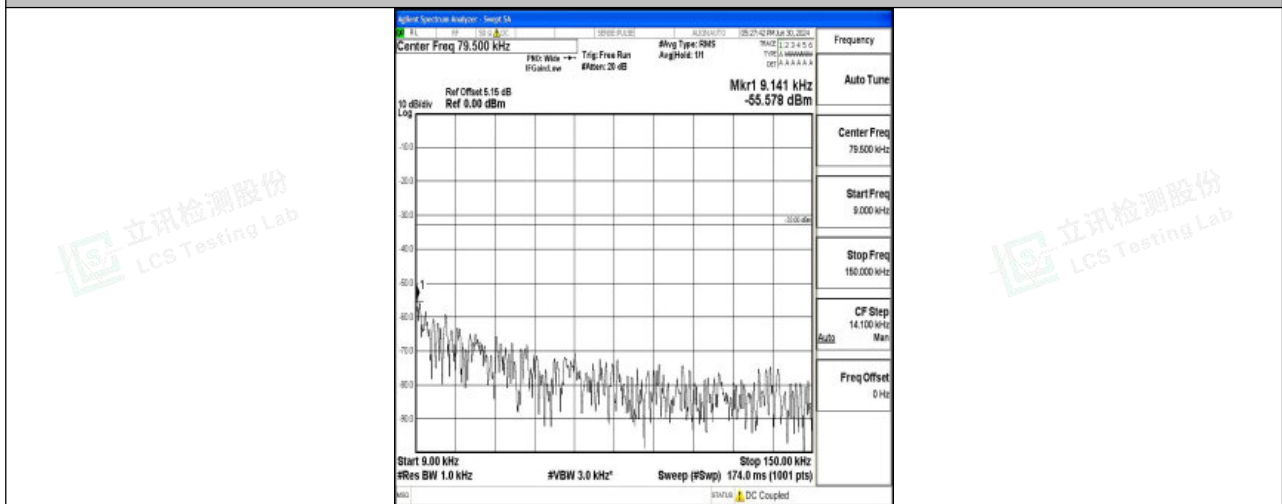
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Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000



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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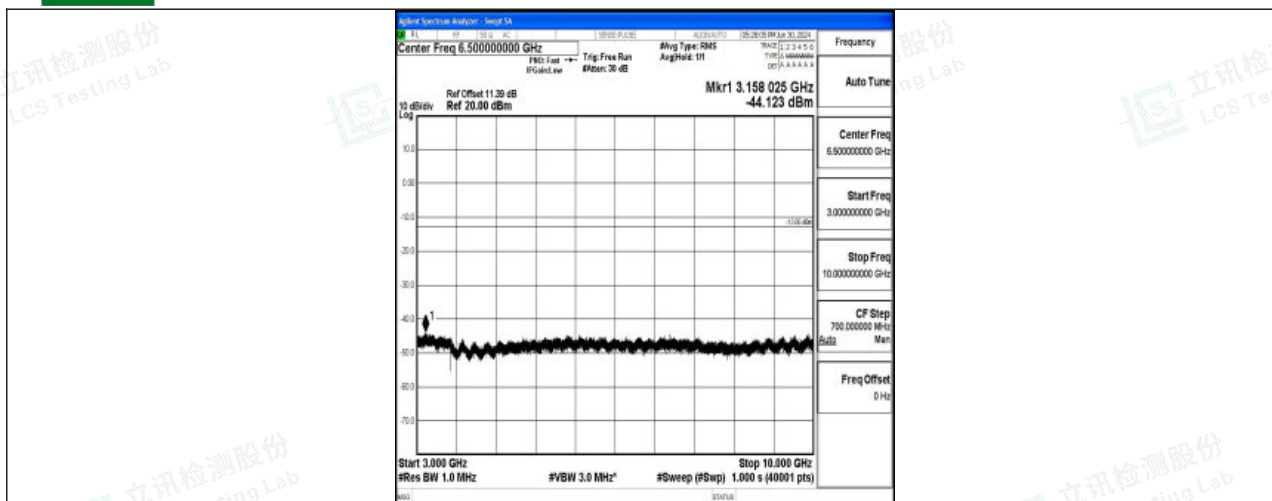


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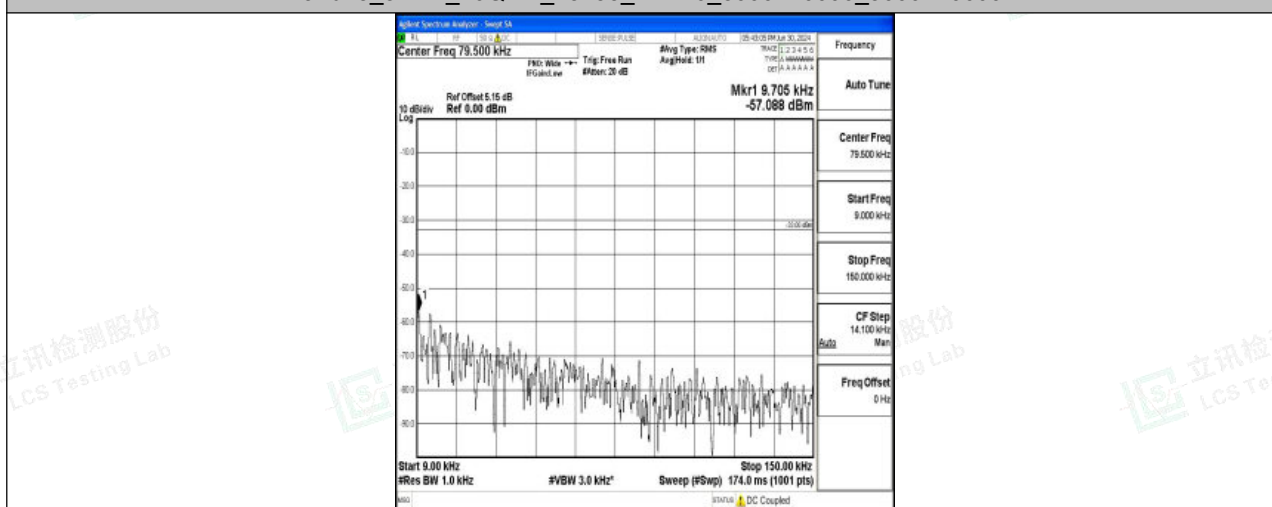
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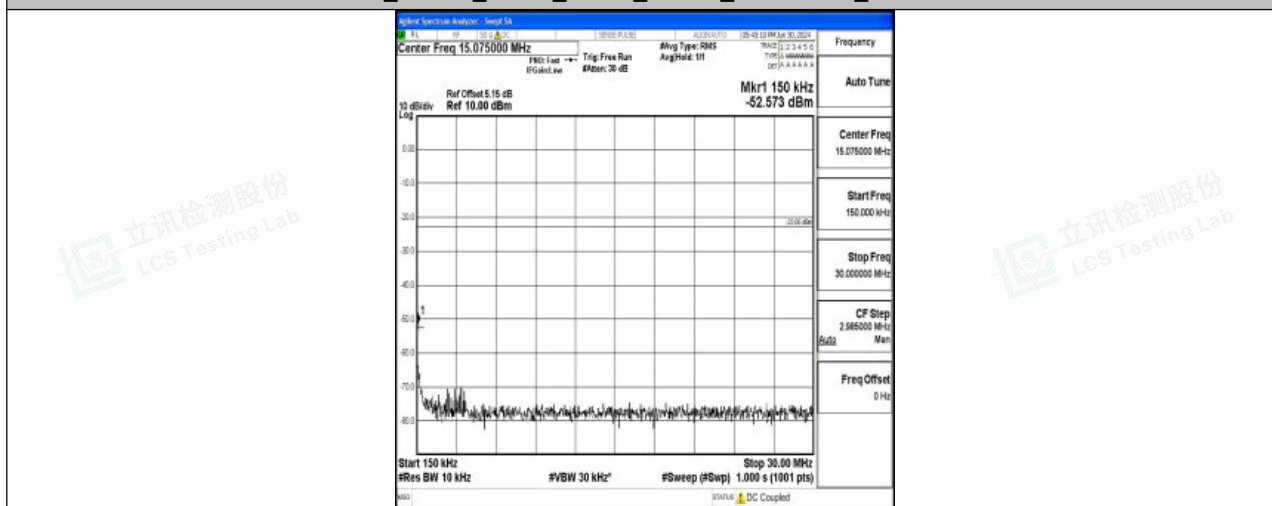
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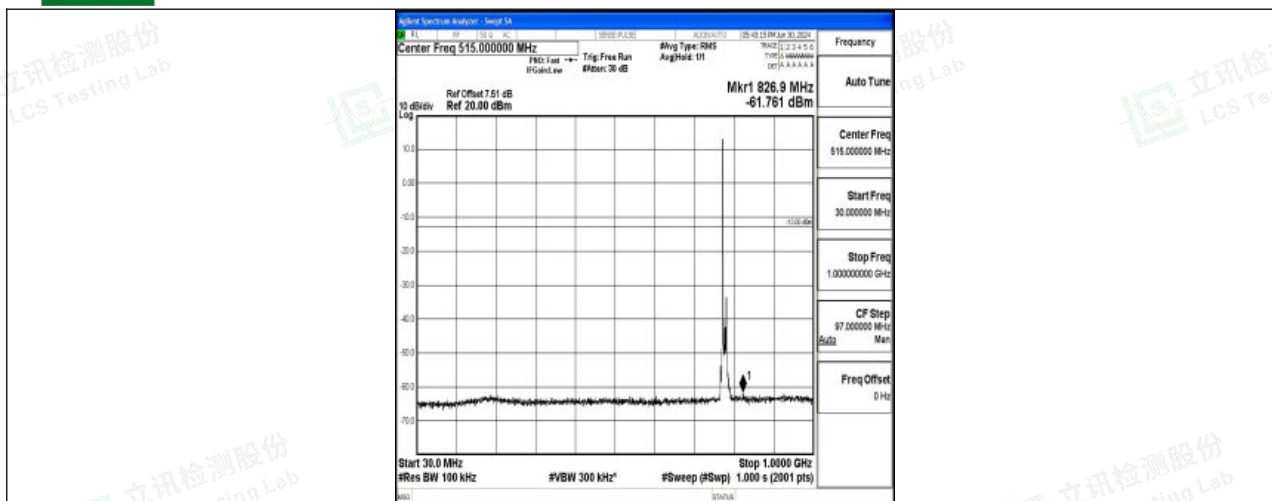


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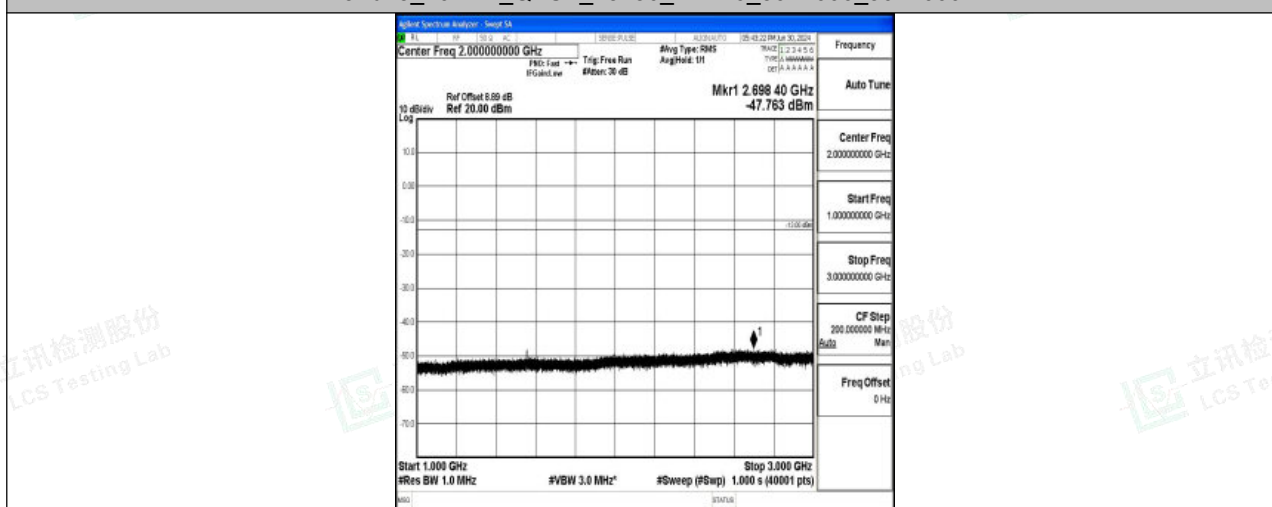
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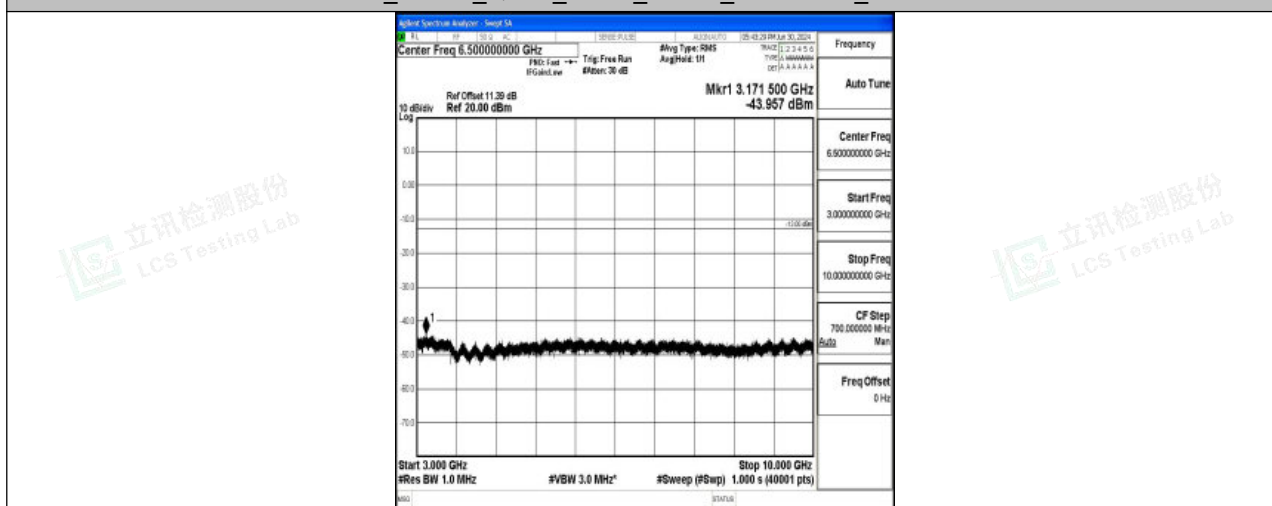
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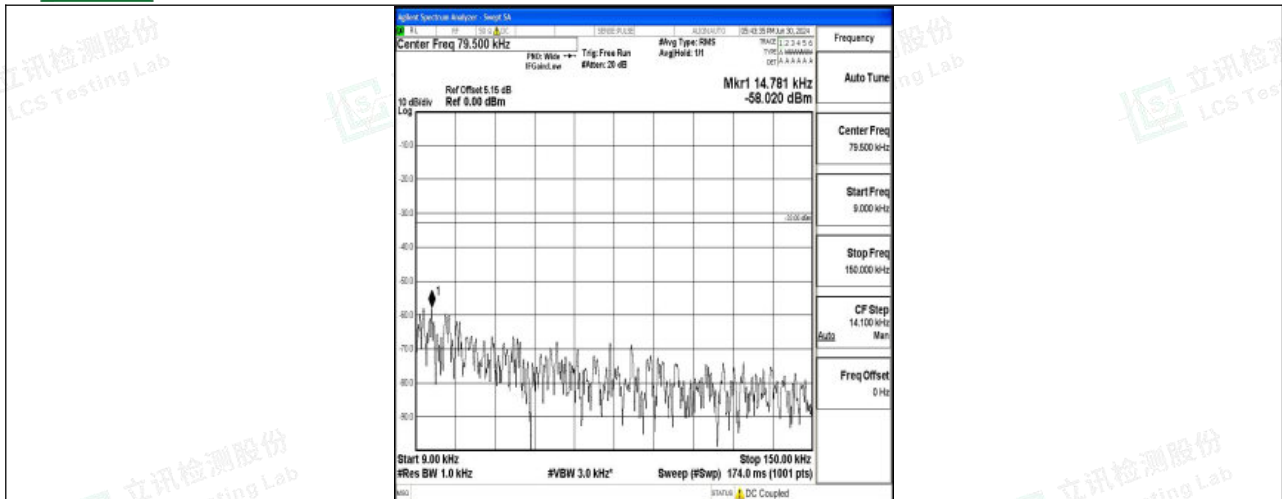


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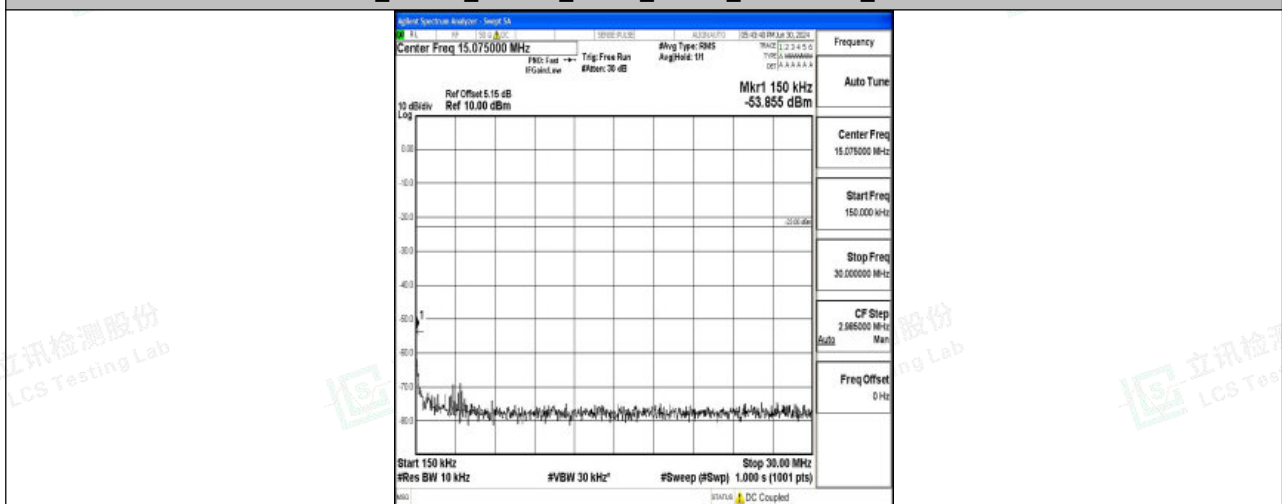
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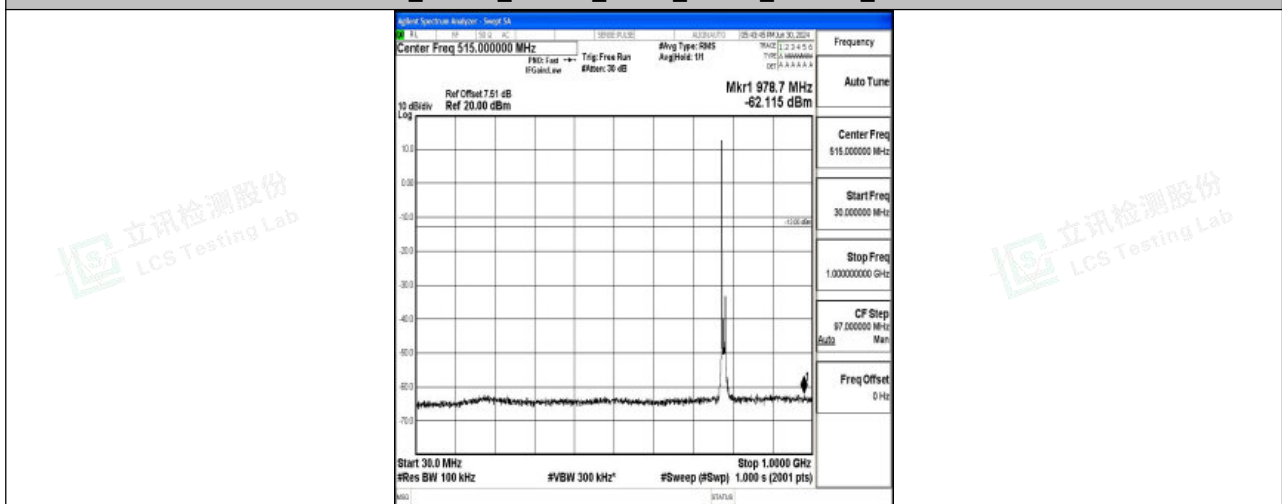
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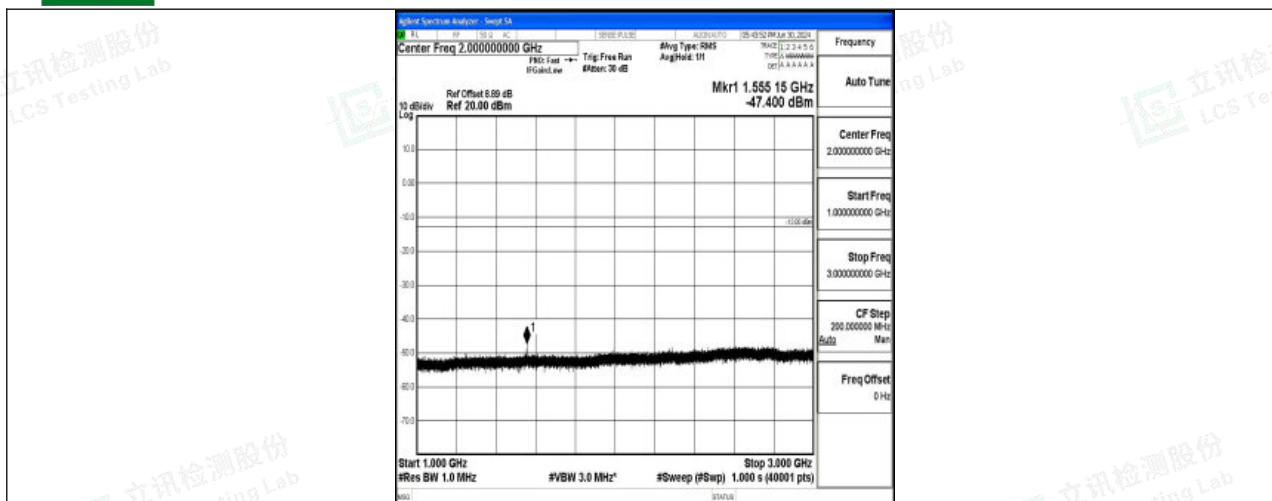


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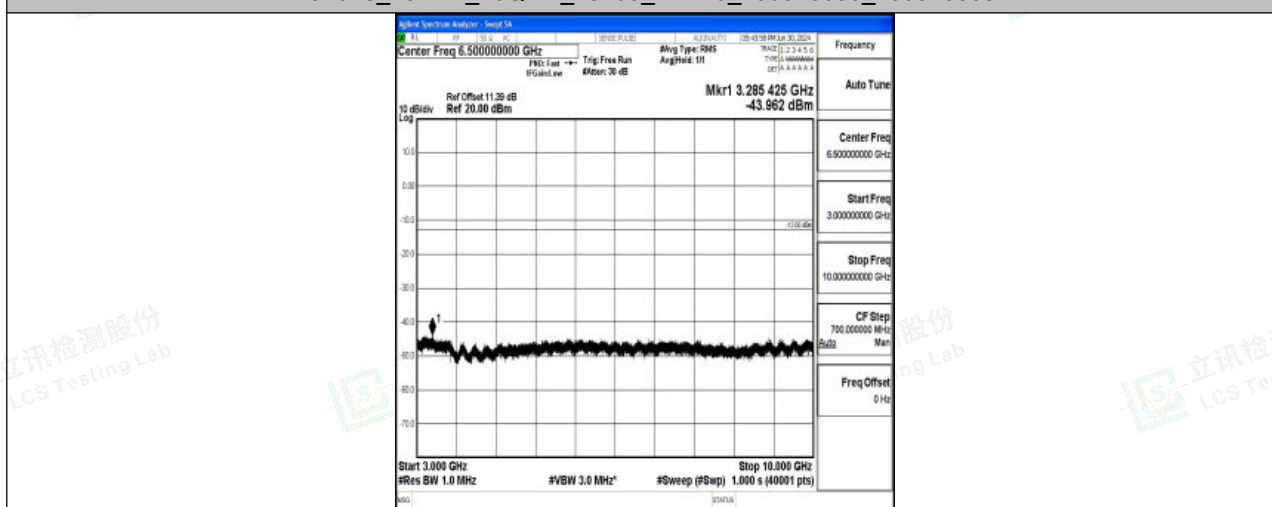
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Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



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