



Appendix H: Test Data for E-UTRA Band 14

Product Name: Sensorfact EnOcean Gateway 902MHz
Test Model: GW-ENOC-902

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	24.17	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.89	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.14	PASS
Band14	5MHz	16QAM	23305	1RB#12	24.00	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.90	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.86	PASS
Band14	5MHz	QPSK	23305	12RB#0	24.06	PASS
Band14	5MHz	16QAM	23305	12RB#0	22.99	PASS
Band14	5MHz	16QAM	23305	12RB#6	23.09	PASS
Band14	5MHz	QPSK	23305	12RB#13	23.88	PASS
Band14	5MHz	16QAM	23305	12RB#13	22.90	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.83	PASS
Band14	5MHz	16QAM	23305	25RB#0	23.13	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.11	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.91	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.84	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.78	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.87	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.83	PASS
Band14	5MHz	QPSK	23330	12RB#0	23.84	PASS
Band14	5MHz	16QAM	23330	12RB#0	22.79	PASS
Band14	5MHz	QPSK	23330	12RB#6	23.76	PASS
Band14	5MHz	16QAM	23330	12RB#6	22.96	PASS
Band14	5MHz	QPSK	23330	12RB#13	23.78	PASS
Band14	5MHz	16QAM	23330	12RB#13	22.81	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.76	PASS
Band14	5MHz	16QAM	23330	25RB#0	23.15	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.82	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.08	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.70	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.04	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.77	PASS
Band14	5MHz	QPSK	23355	12RB#0	23.78	PASS
Band14	5MHz	16QAM	23355	12RB#0	22.95	PASS
Band14	5MHz	16QAM	23355	12RB#6	22.76	PASS
Band14	5MHz	QPSK	23355	12RB#13	23.89	PASS
Band14	5MHz	16QAM	23355	12RB#13	23.12	PASS





Band14	5MHz	QPSK	23355	25RB#0	23.66	PASS
Band14	5MHz	QPSK	23305	12RB#6	23.98	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.94	PASS
Band14	5MHz	QPSK	23355	12RB#6	23.69	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.83	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.75	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.53	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.59	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.83	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.39	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.45	PASS
Band14	10MHz	QPSK	23330	25RB#0	23.55	PASS
Band14	10MHz	16QAM	23330	25RB#0	22.83	PASS
Band14	10MHz	QPSK	23330	25RB#12	23.54	PASS
Band14	10MHz	16QAM	23330	25RB#12	22.64	PASS
Band14	10MHz	QPSK	23330	25RB#25	23.55	PASS
Band14	10MHz	16QAM	23330	25RB#25	22.48	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.51	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.63	PASS





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

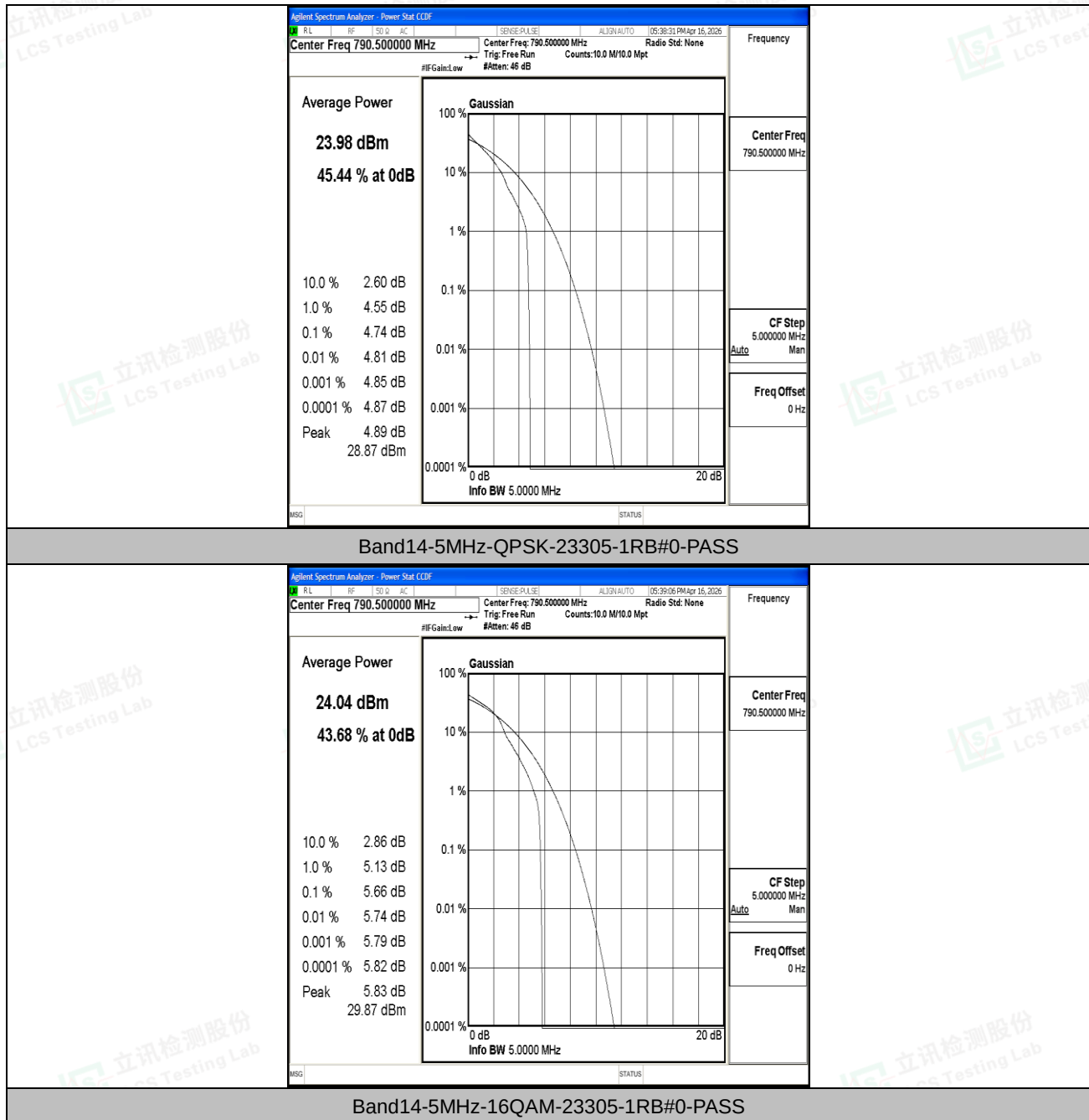
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	4.74	13	PASS
Band14	5MHz	16QAM	23305	1RB#0	5.66	13	PASS
Band14	5MHz	QPSK	23305	25RB#0	5.32	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.10	13	PASS
Band14	5MHz	QPSK	23330	1RB#0	4.79	13	PASS
Band14	5MHz	16QAM	23330	1RB#0	5.61	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.31	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.07	13	PASS
Band14	5MHz	QPSK	23355	1RB#0	4.79	13	PASS
Band14	5MHz	16QAM	23355	1RB#0	5.65	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.28	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.08	13	PASS
Band14	10MHz	QPSK	23330	1RB#0	4.71	13	PASS
Band14	10MHz	16QAM	23330	1RB#0	5.57	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.24	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.05	13	PASS





Test Graphs

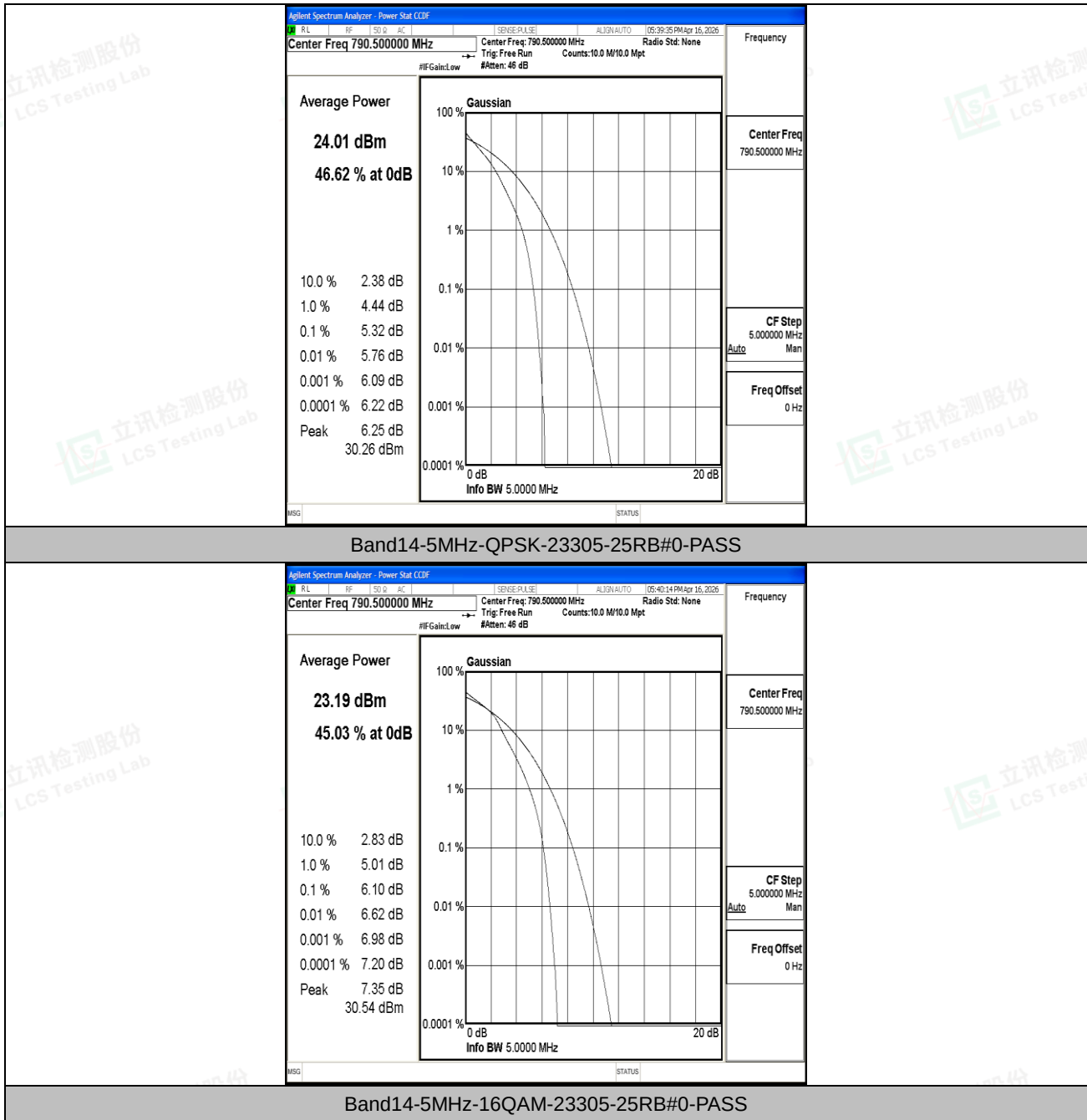


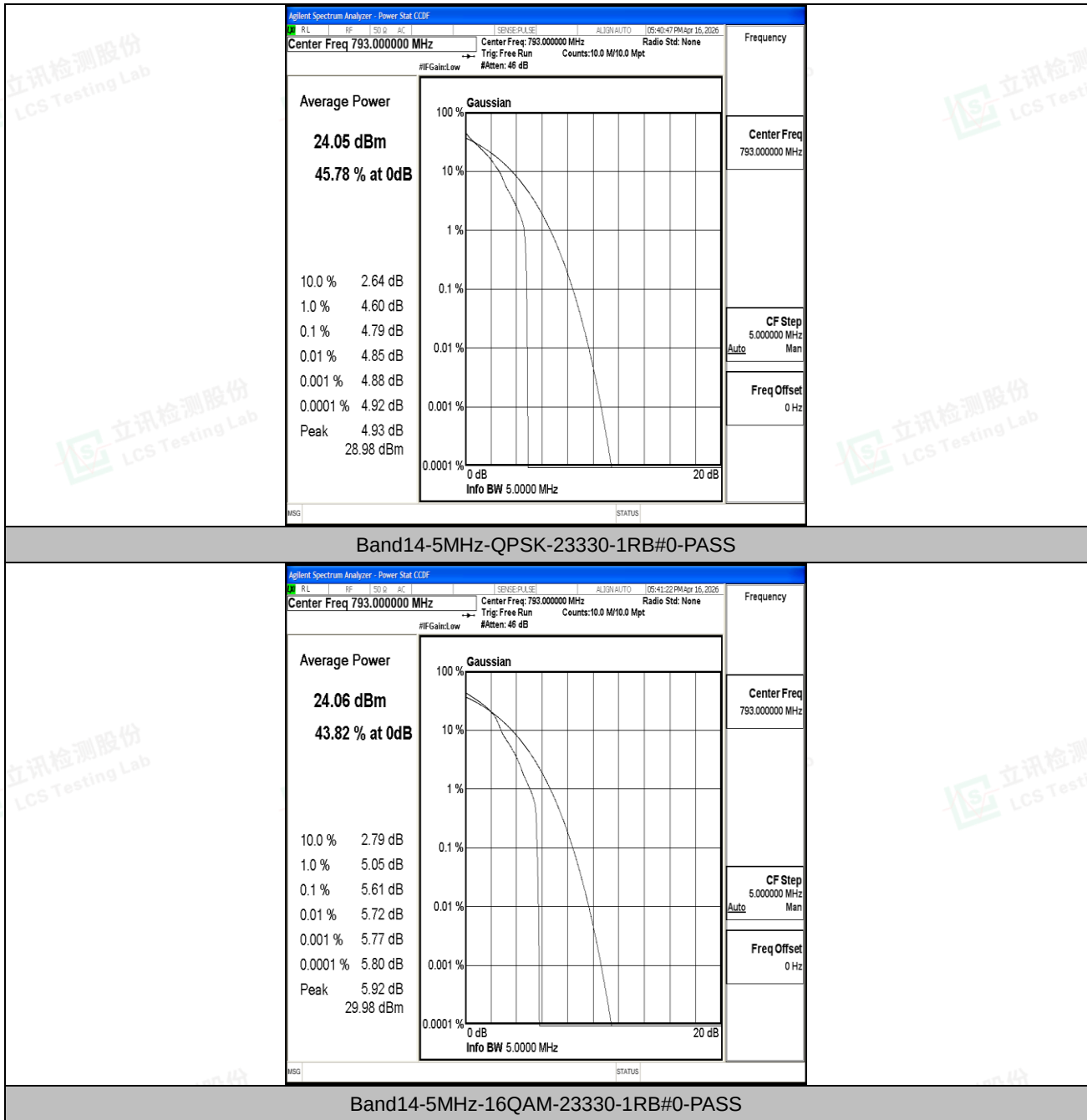
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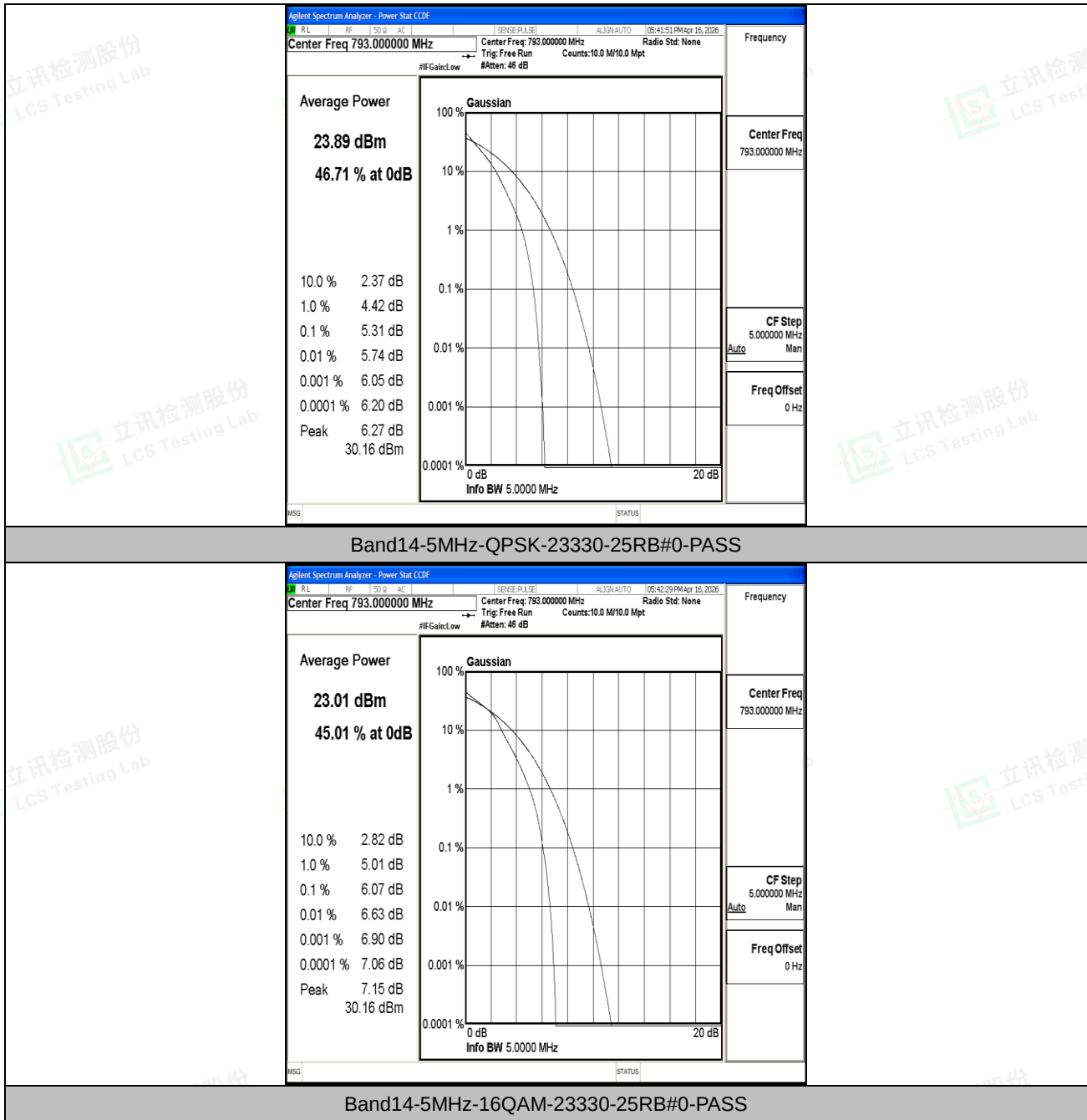
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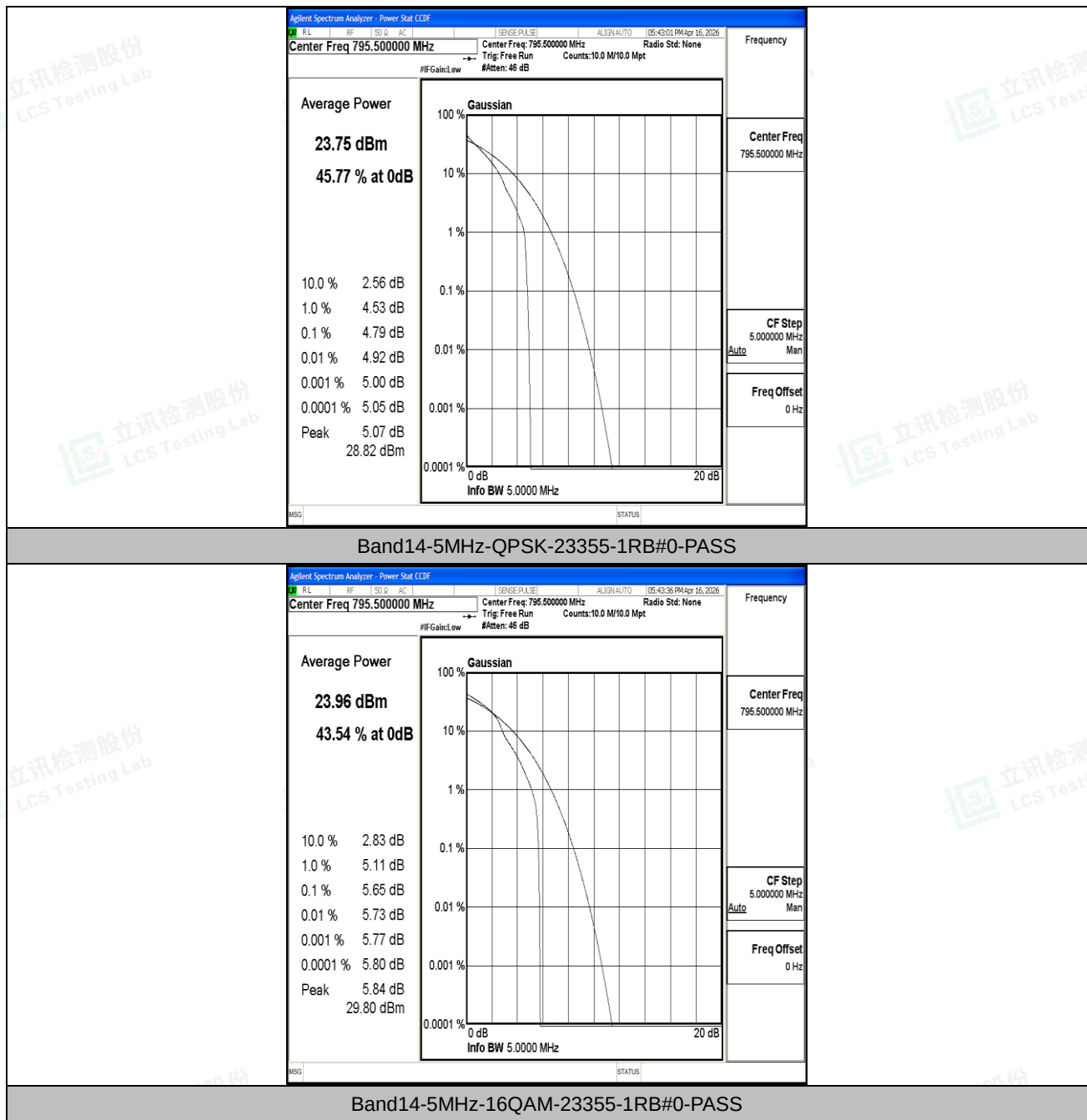
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

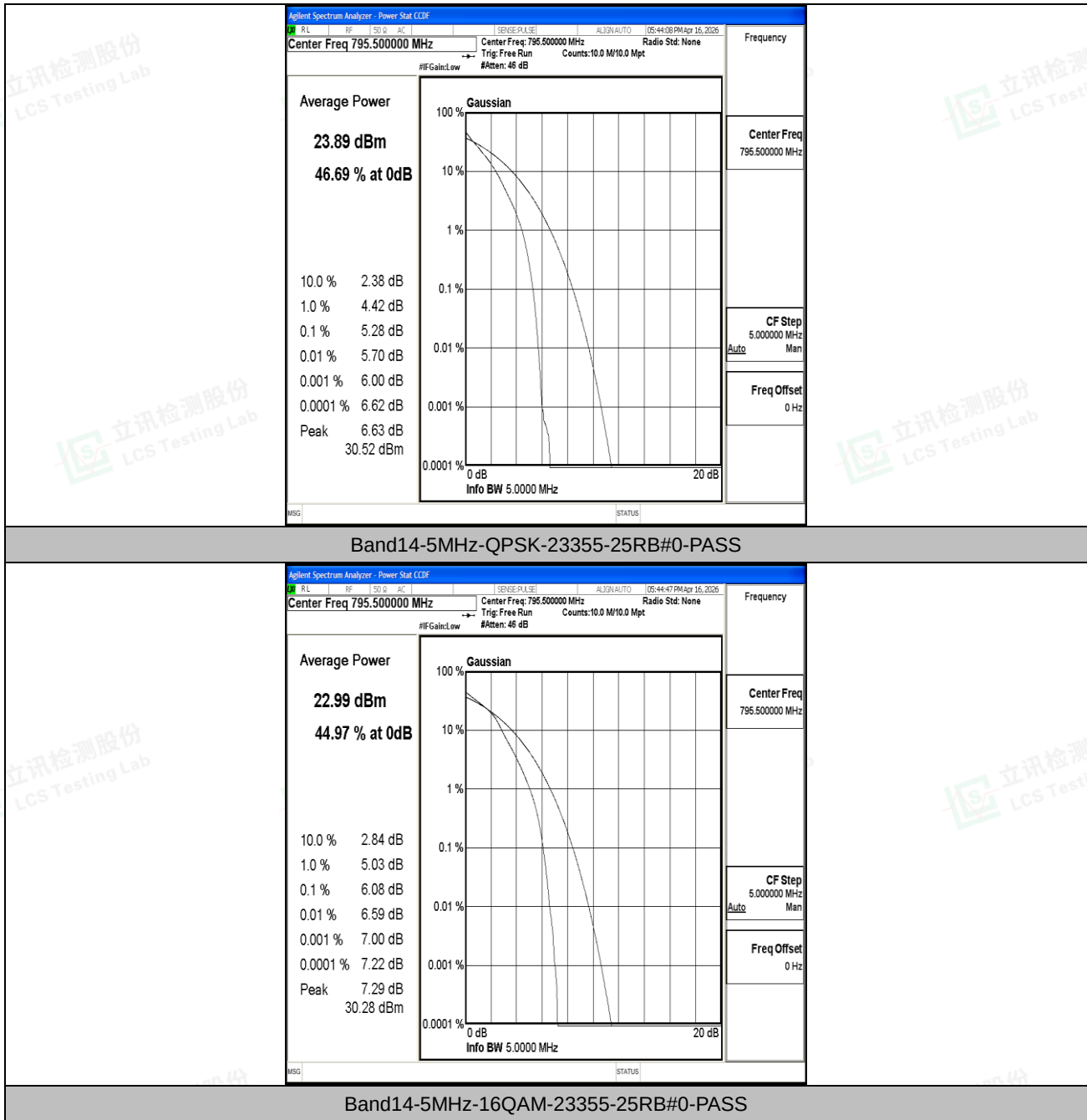
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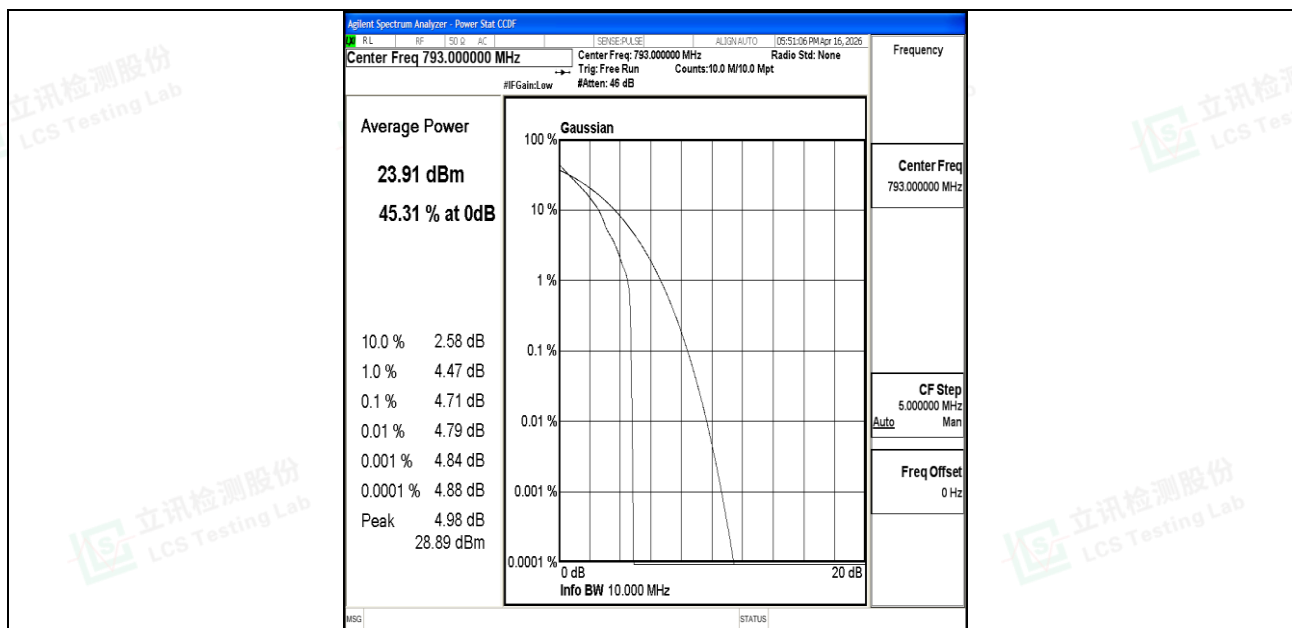




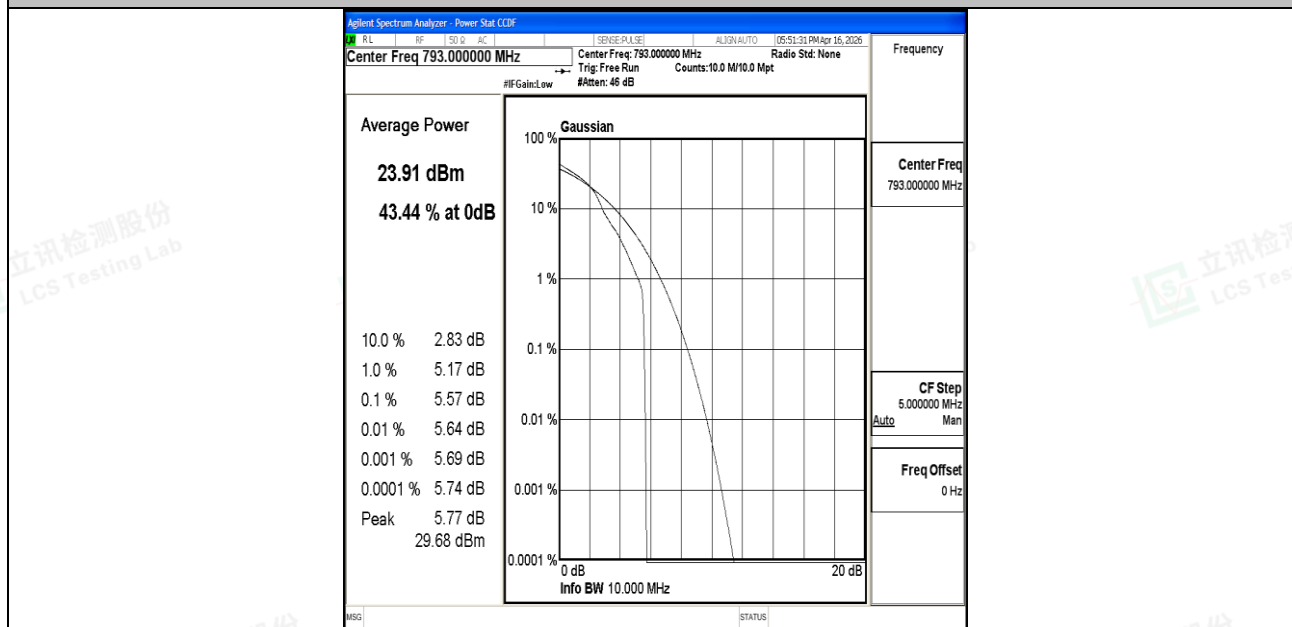






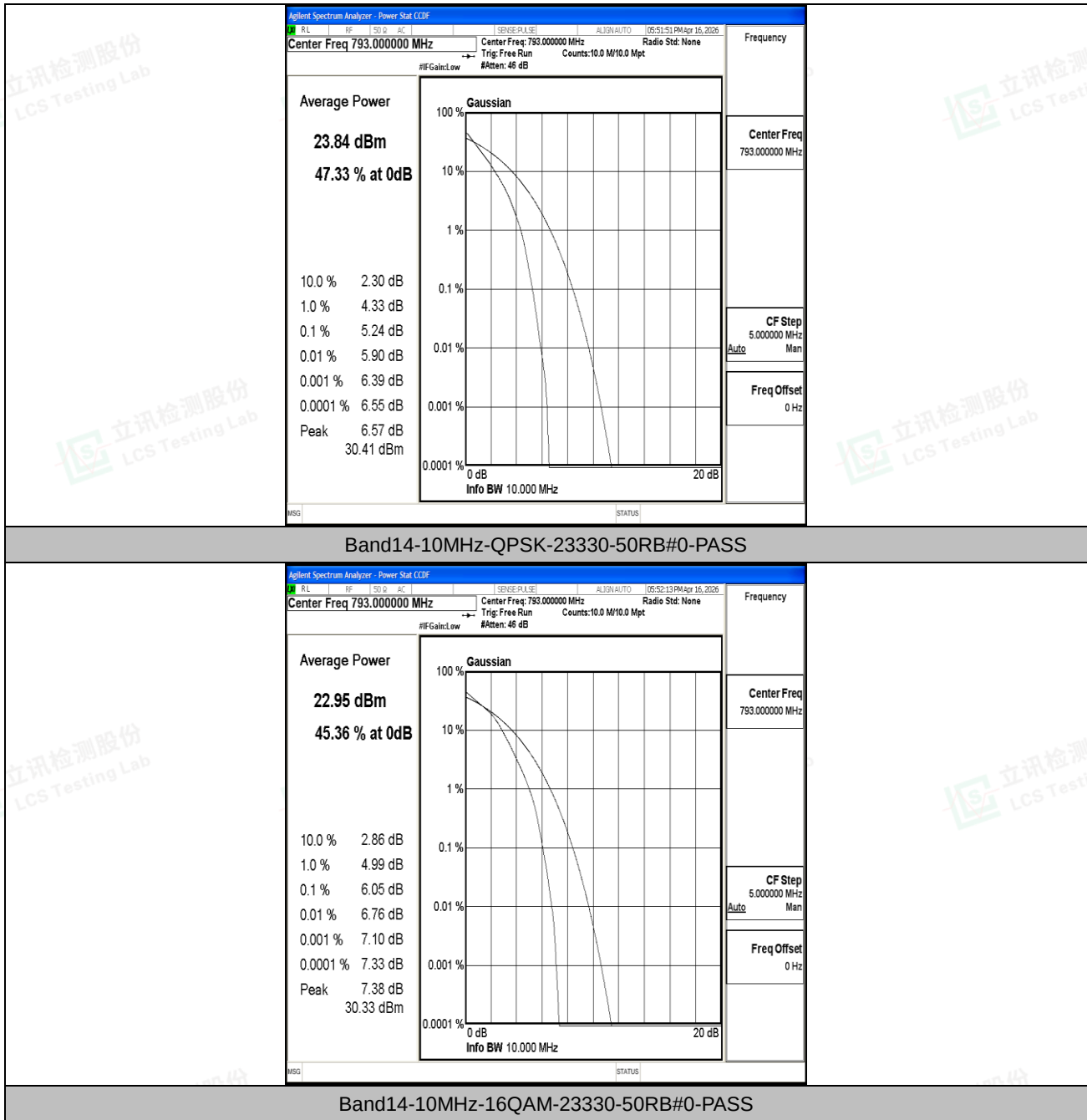


Band14-10MHz-QPSK-23330-1RB#0-PASS



Band14-10MHz-16QAM-23330-1RB#0-PASS







H.3 26dB Bandwidth and Occupied Bandwidth

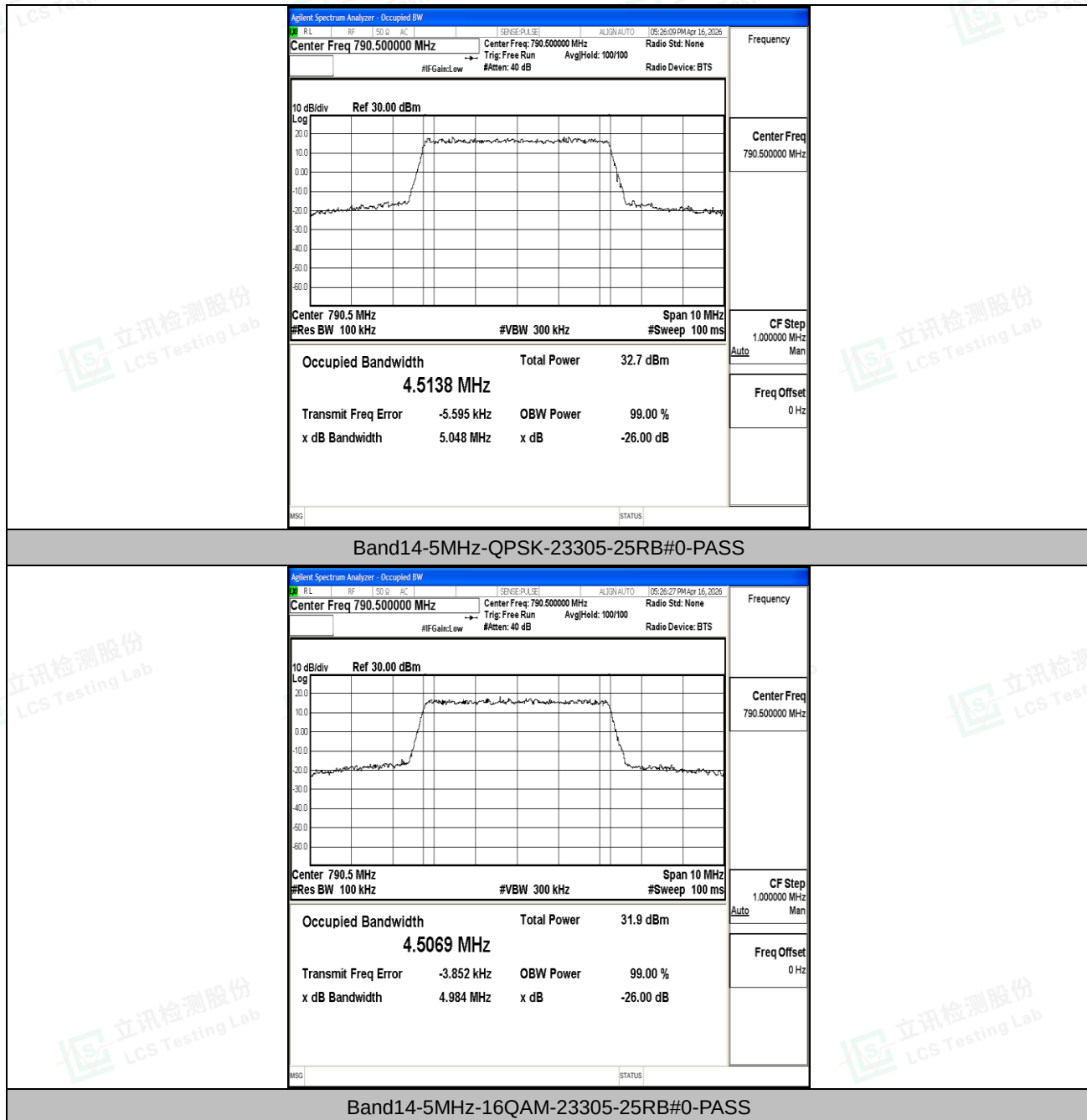
Test Result

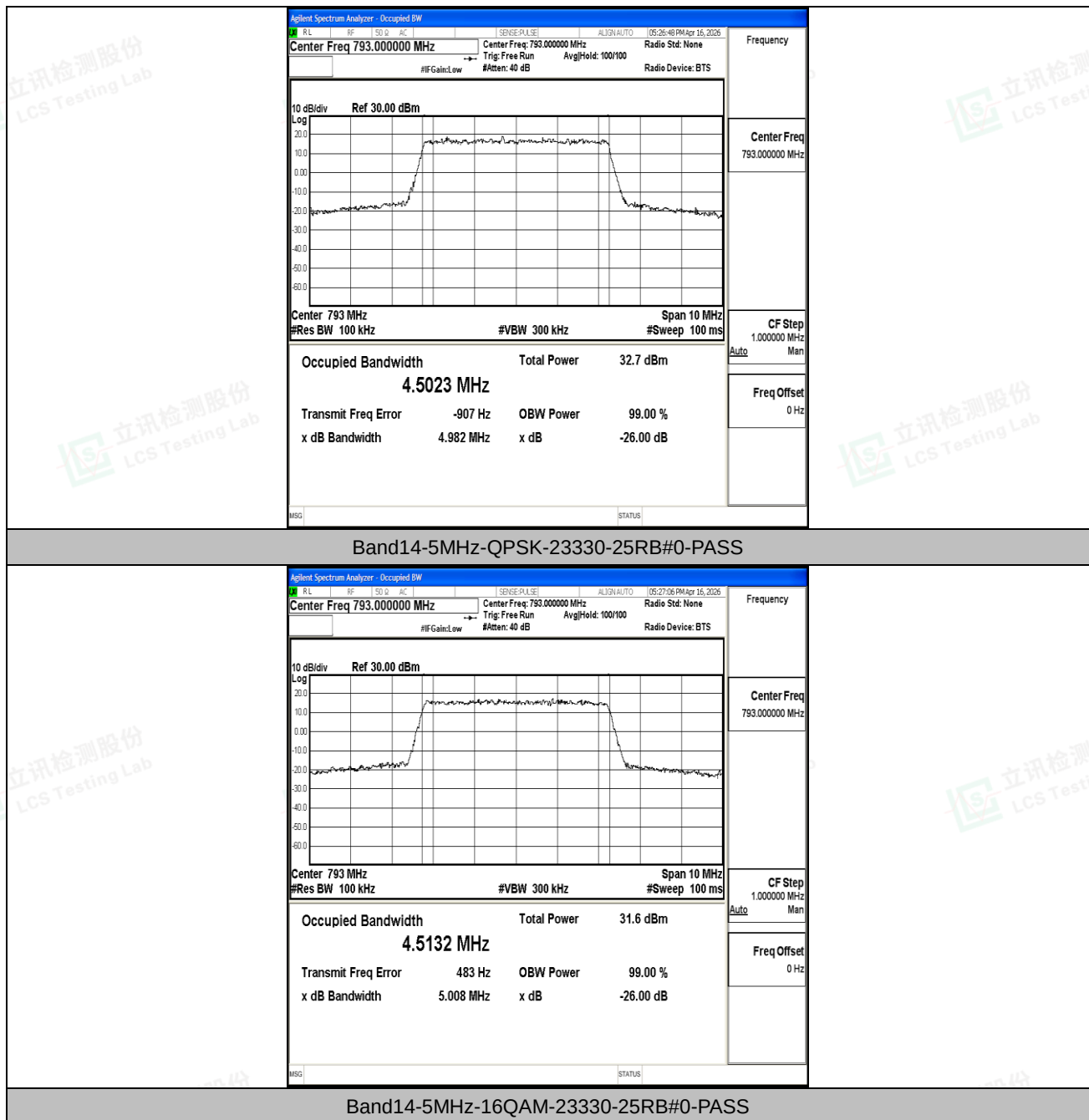
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5138	5.048	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5069	4.984	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.5023	4.982	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5132	5.008	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5010	5.011	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5184	5.052	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.9671	9.892	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9694	9.857	PASS

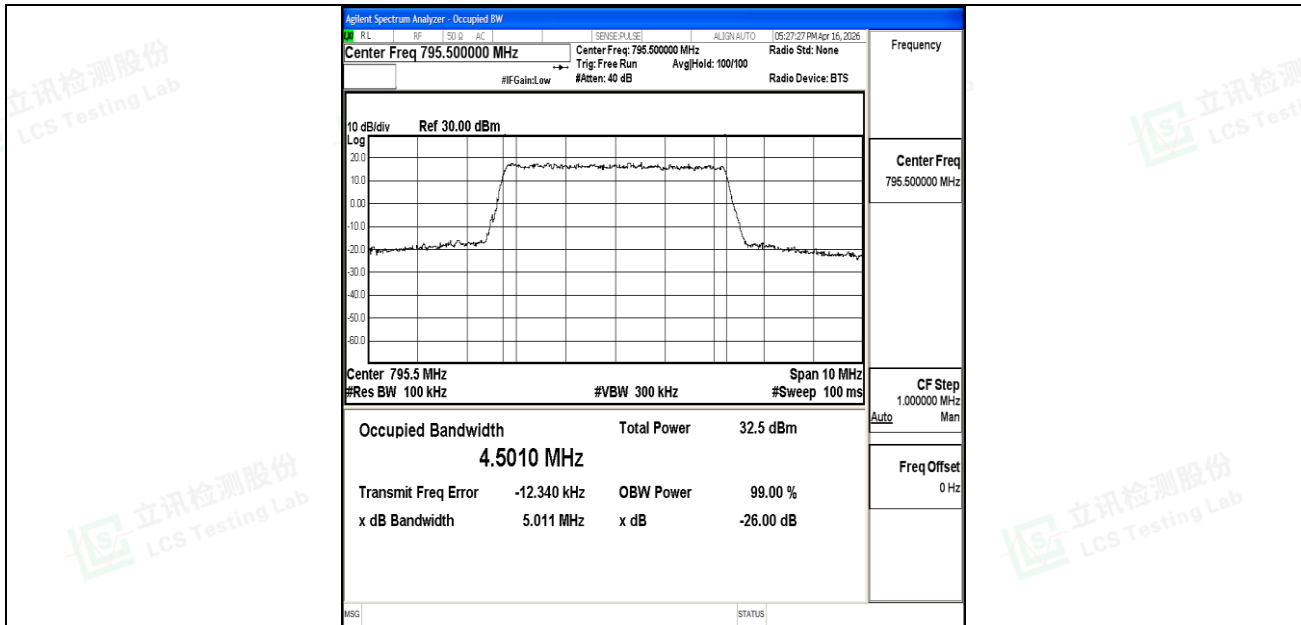




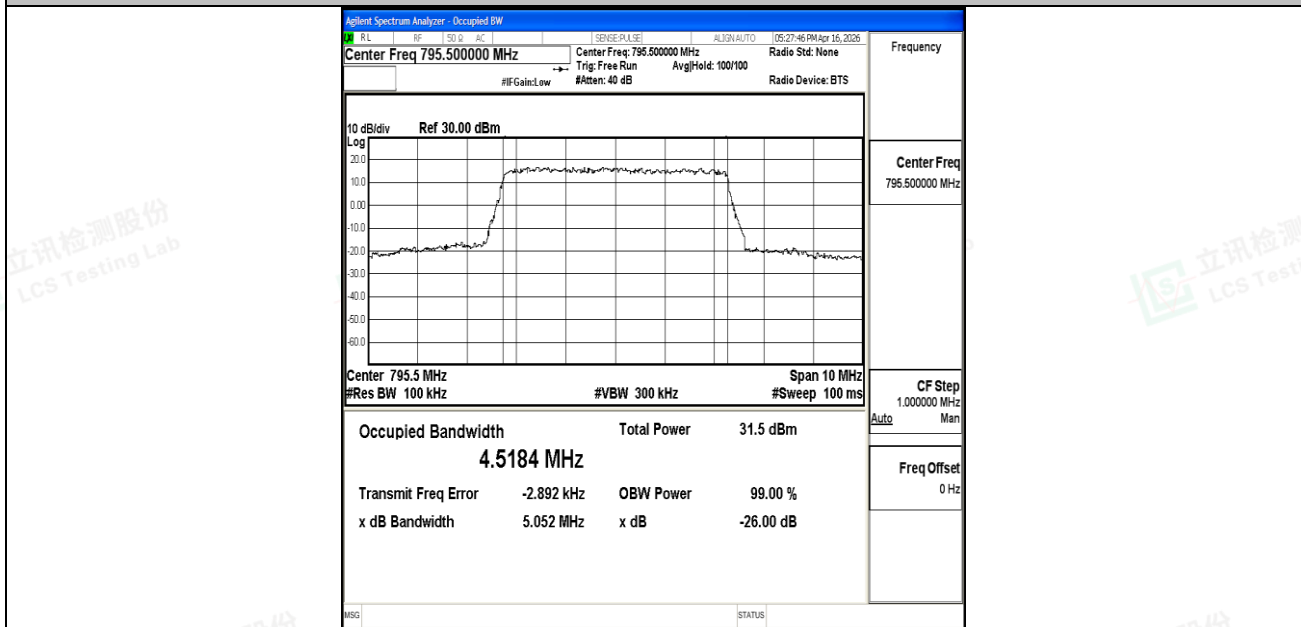
Test Graphs





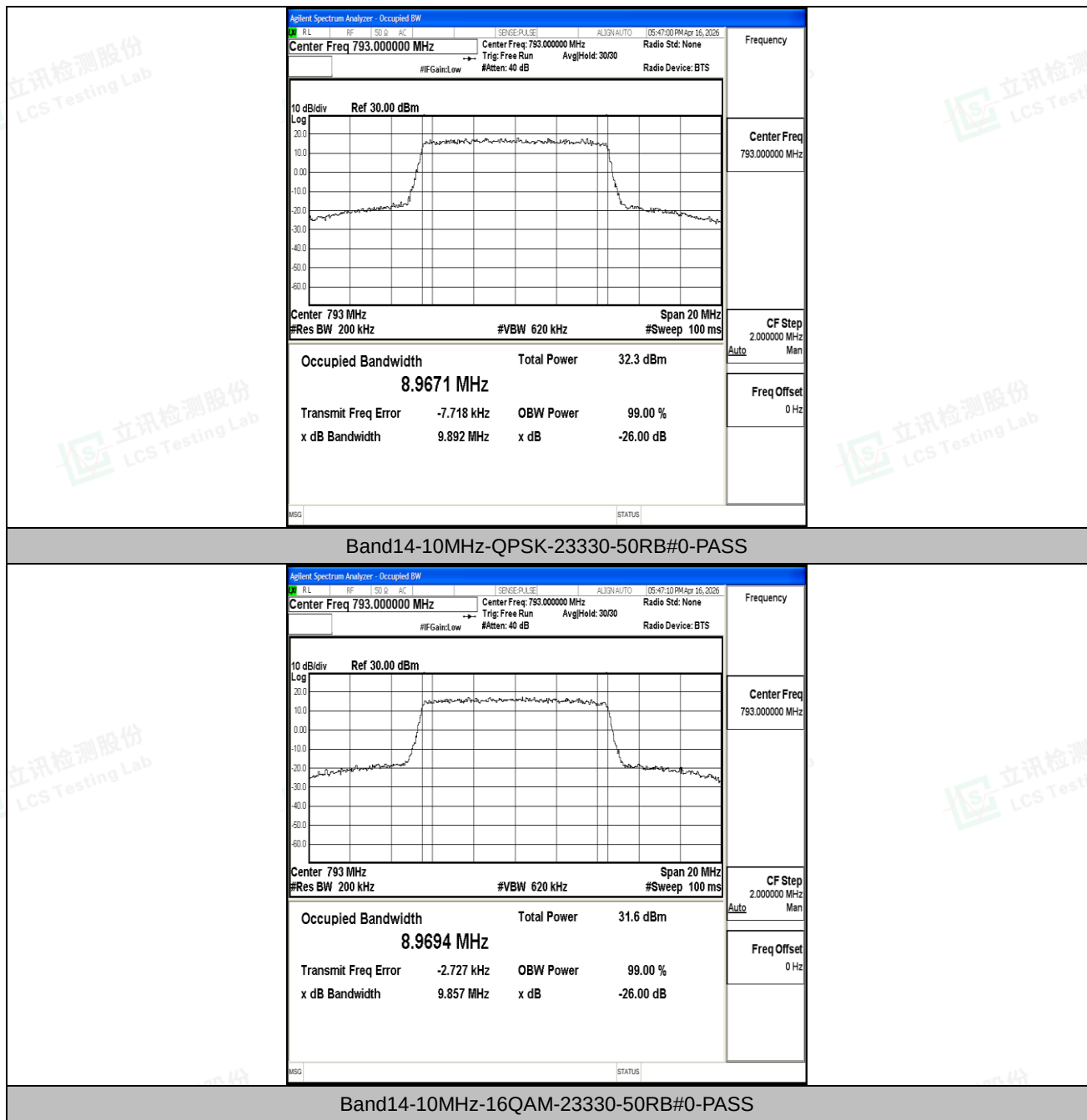


Band14-5MHz-QPSK-23355-25RB#0-PASS



Band14-5MHz-16QAM-23355-25RB#0-PASS





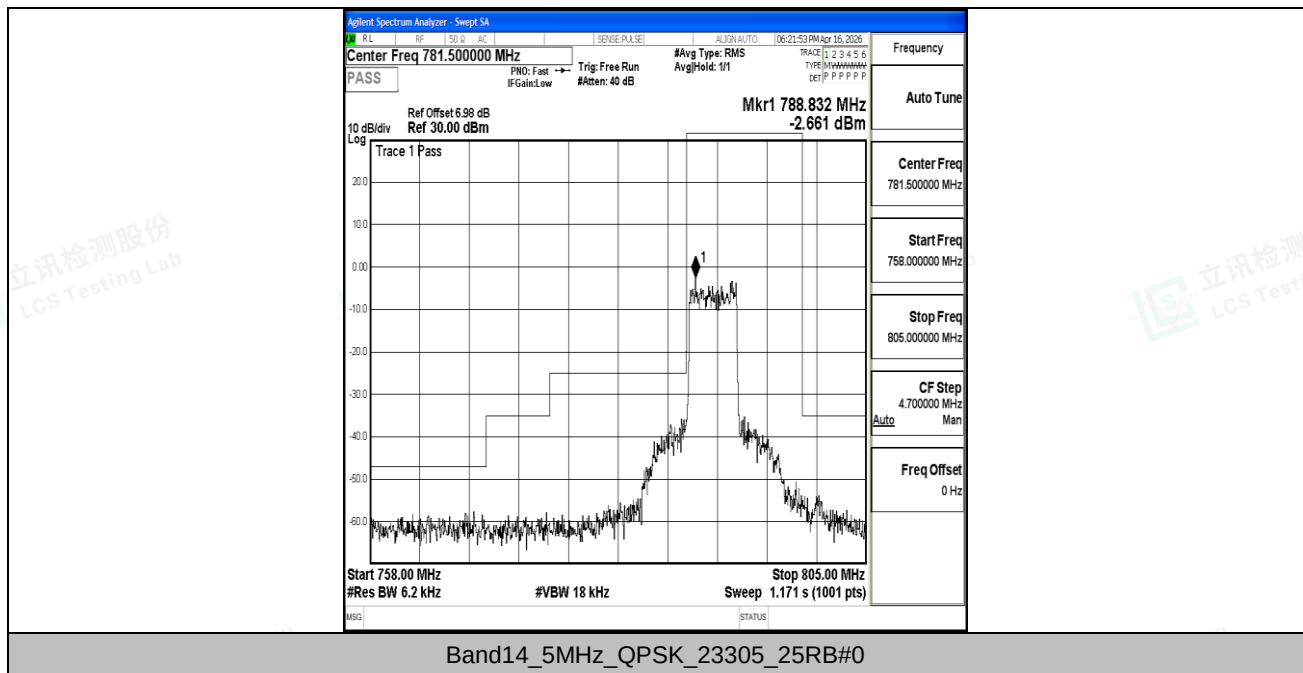


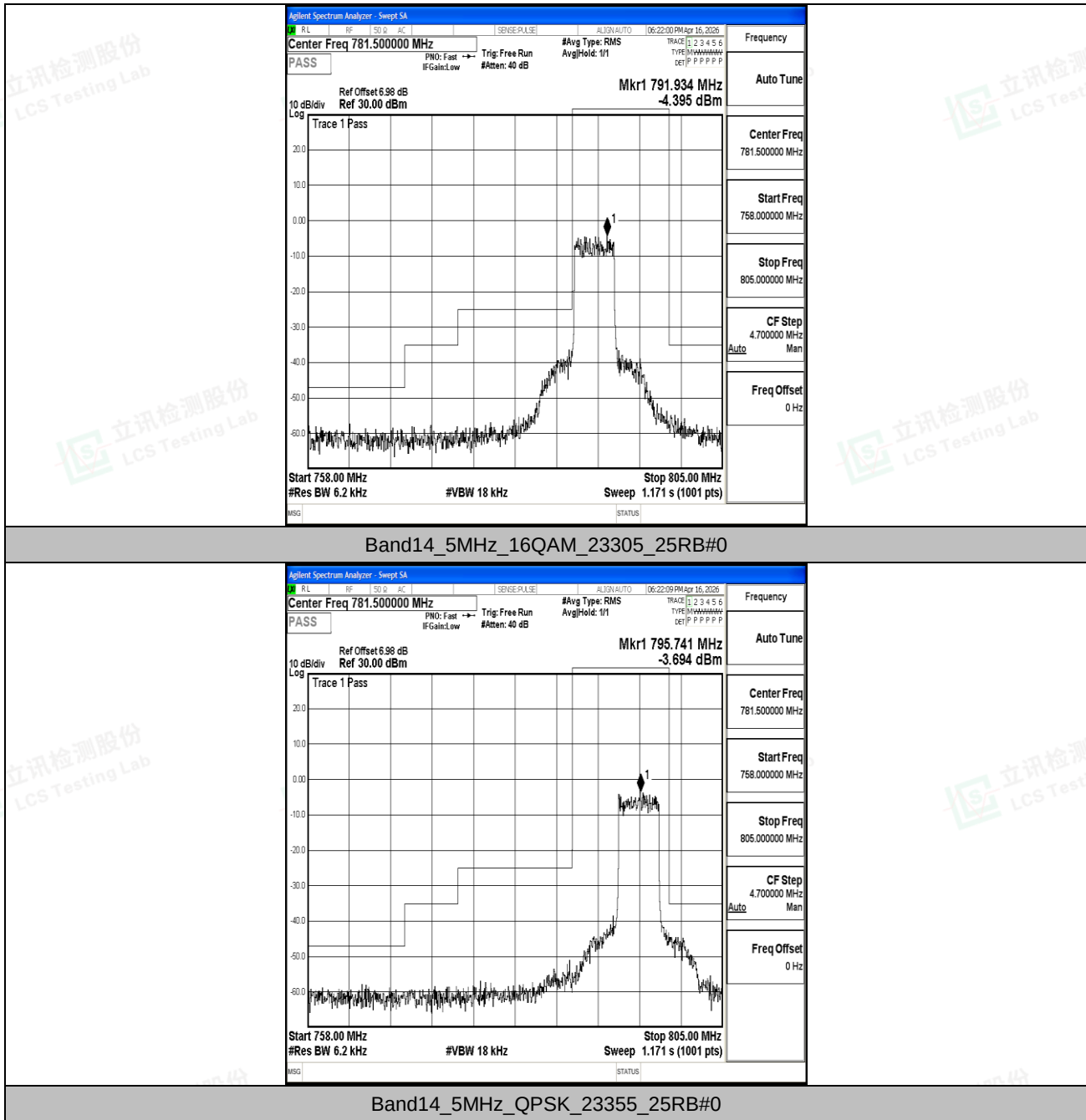
H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	767.87	-57.73	PASS
Band14	5MHz	16QAM	23305	25RB#0	762.79	-57.30	PASS
Band14	5MHz	QPSK	23355	25RB#0	799.08	-44.51	PASS
Band14	5MHz	16QAM	23355	25RB#0	799.13	-42.17	PASS
Band14	10MHz	QPSK	23330	50RB#0	800.49	-43.11	PASS
Band14	10MHz	16QAM	23330	50RB#0	799.08	-44.18	PASS

Test Graphs



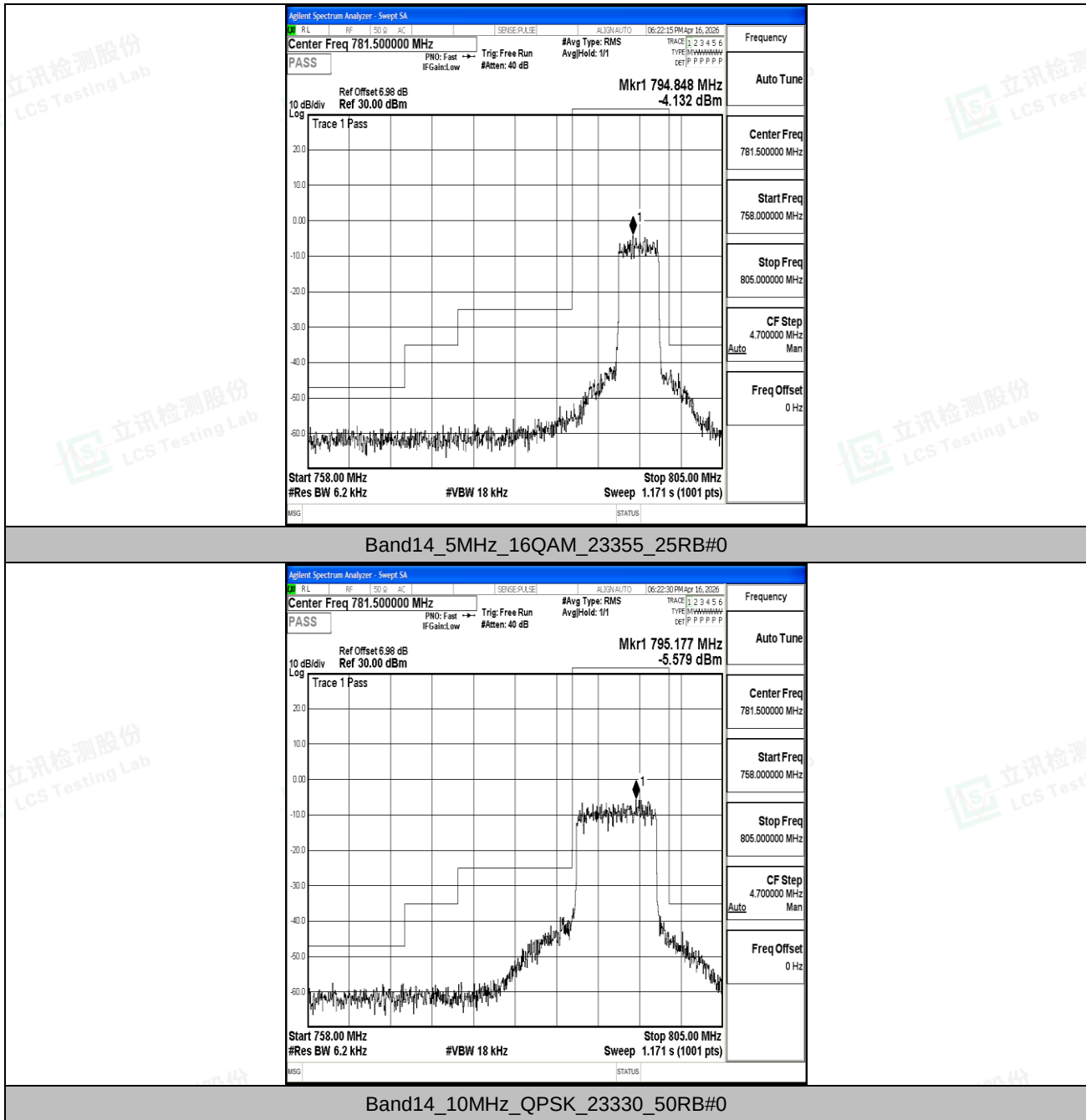


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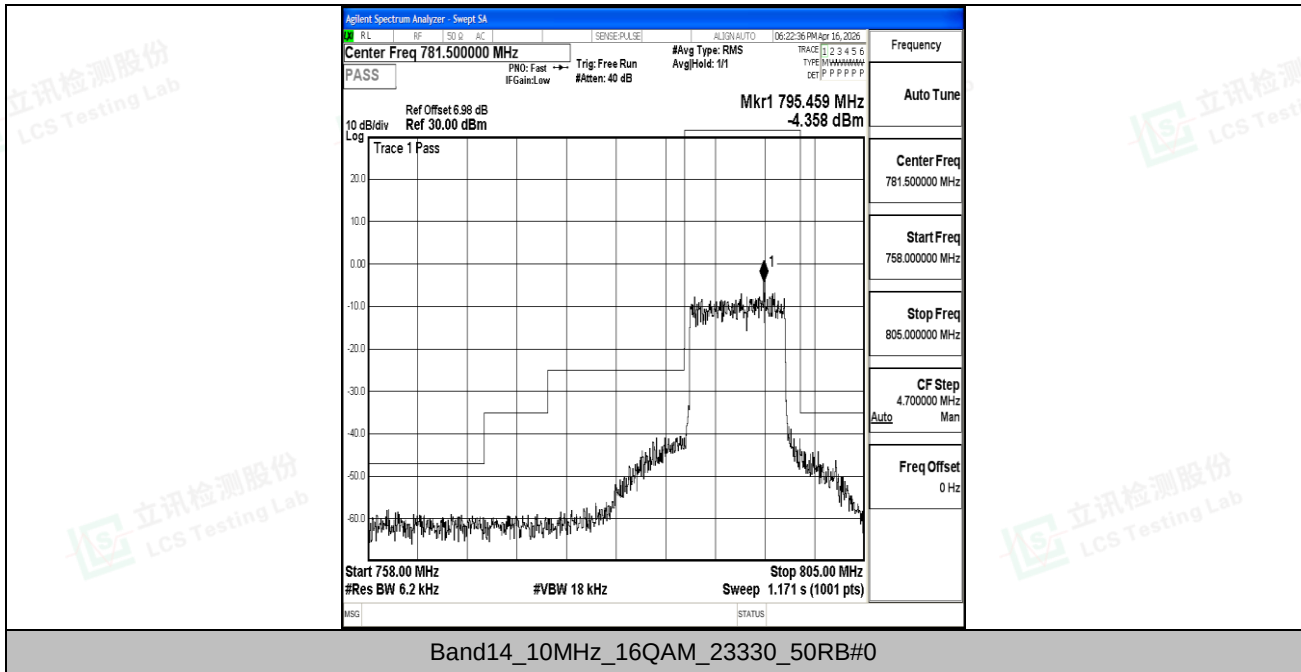


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H.5 Conducted Spurious Emission

Test Result

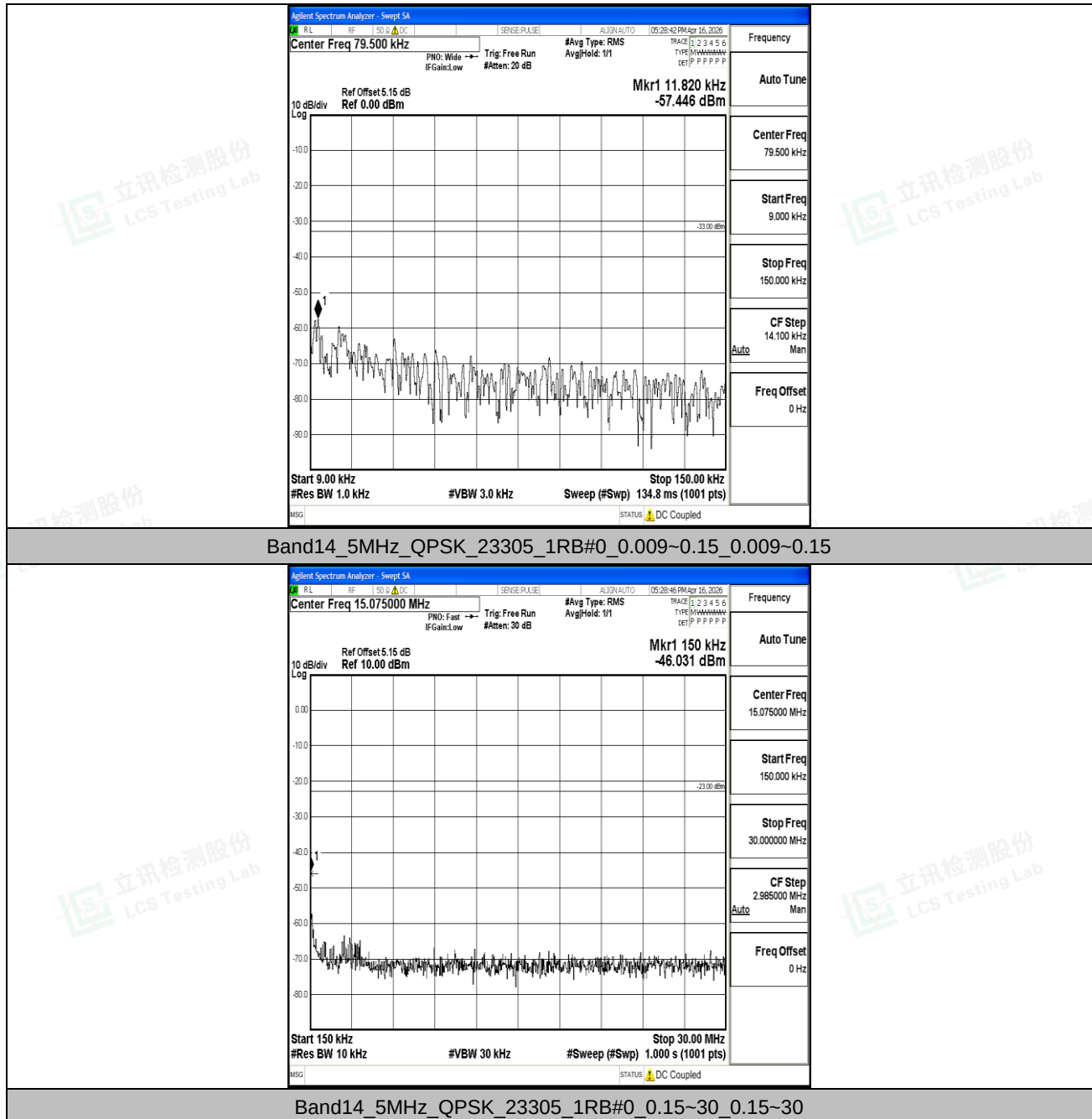
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	0.009~0.15	-57.45	PASS
Band14	5MHz	QPSK	23305	1RB#0	0.15~30	-46.03	PASS
Band14	5MHz	QPSK	23305	1RB#0	30~1000	-52.74	PASS
Band14	5MHz	QPSK	23305	1RB#0	1000~3000	-34.84	PASS
Band14	5MHz	QPSK	23305	1RB#0	3000~10000	-34.32	PASS
Band14	5MHz	16QAM	23305	1RB#0	0.009~0.15	-59.09	PASS
Band14	5MHz	16QAM	23305	1RB#0	0.15~30	-49.05	PASS
Band14	5MHz	16QAM	23305	1RB#0	30~1000	-52.39	PASS
Band14	5MHz	16QAM	23305	1RB#0	1000~3000	-33.14	PASS
Band14	5MHz	16QAM	23305	1RB#0	3000~10000	-34.88	PASS
Band14	5MHz	QPSK	23330	1RB#0	0.009~0.15	-57.06	PASS
Band14	5MHz	QPSK	23330	1RB#0	0.15~30	-45.78	PASS
Band14	5MHz	QPSK	23330	1RB#0	30~1000	-52.76	PASS
Band14	5MHz	QPSK	23330	1RB#0	1000~3000	-34.14	PASS
Band14	5MHz	QPSK	23330	1RB#0	3000~10000	-34.65	PASS
Band14	5MHz	16QAM	23330	1RB#0	0.009~0.15	-54.65	PASS
Band14	5MHz	16QAM	23330	1RB#0	0.15~30	-41.85	PASS
Band14	5MHz	16QAM	23330	1RB#0	30~1000	-53.09	PASS
Band14	5MHz	16QAM	23330	1RB#0	1000~3000	-32.52	PASS
Band14	5MHz	16QAM	23330	1RB#0	3000~10000	-35.44	PASS
Band14	5MHz	QPSK	23355	1RB#0	0.009~0.15	-57.75	PASS
Band14	5MHz	QPSK	23355	1RB#0	0.15~30	-44.17	PASS
Band14	5MHz	QPSK	23355	1RB#0	30~1000	-52.07	PASS
Band14	5MHz	QPSK	23355	1RB#0	1000~3000	-33.57	PASS
Band14	5MHz	QPSK	23355	1RB#0	3000~10000	-35.19	PASS
Band14	5MHz	16QAM	23355	1RB#0	0.009~0.15	-54.78	PASS
Band14	5MHz	16QAM	23355	1RB#0	0.15~30	-45.52	PASS
Band14	5MHz	16QAM	23355	1RB#0	30~1000	-52.17	PASS
Band14	5MHz	16QAM	23355	1RB#0	1000~3000	-32.89	PASS
Band14	5MHz	16QAM	23355	1RB#0	3000~10000	-35.50	PASS
Band14	10MHz	QPSK	23330	1RB#0	0.009~0.15	-57.57	PASS
Band14	10MHz	QPSK	23330	1RB#0	0.15~30	-43.36	PASS
Band14	10MHz	QPSK	23330	1RB#0	30~1000	-52.34	PASS
Band14	10MHz	QPSK	23330	1RB#0	1000~3000	-35.17	PASS
Band14	10MHz	QPSK	23330	1RB#0	3000~10000	-35.35	PASS
Band14	10MHz	16QAM	23330	1RB#0	0.009~0.15	-59.00	PASS





Band14	10MHz	16QAM	23330	1RB#0	0.15~30	-44.46	PASS
Band14	10MHz	16QAM	23330	1RB#0	30~1000	-52.84	PASS
Band14	10MHz	16QAM	23330	1RB#0	1000~3000	-33.60	PASS
Band14	10MHz	16QAM	23330	1RB#0	3000~10000	-35.21	PASS

Test Graphs

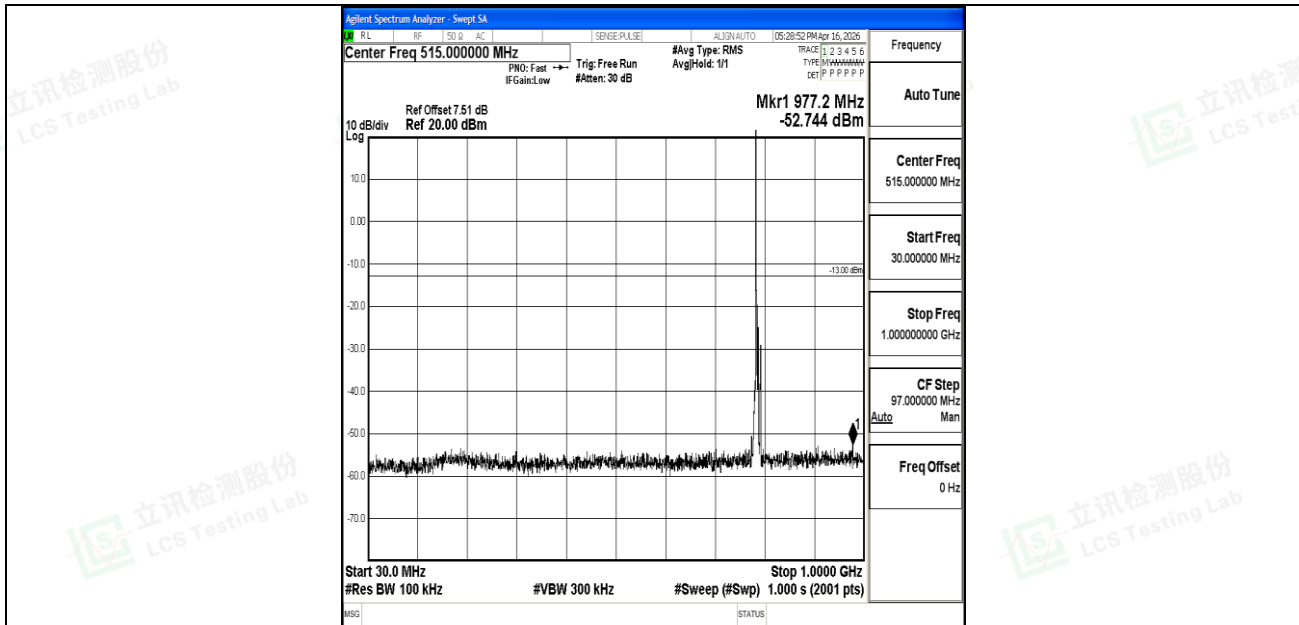


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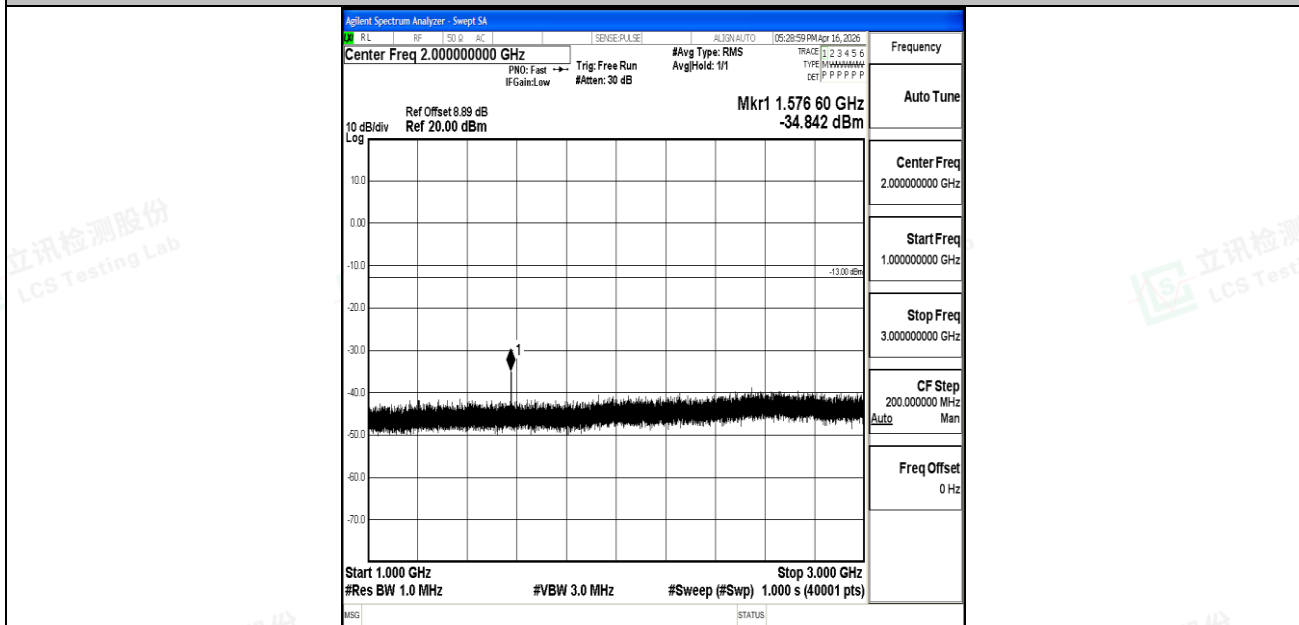
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Band14_5MHz_QPSK_23305_1RB#0_30~1000_30~1000



Band14_5MHz_QPSK_23305_1RB#0_1000~3000_1000~3000

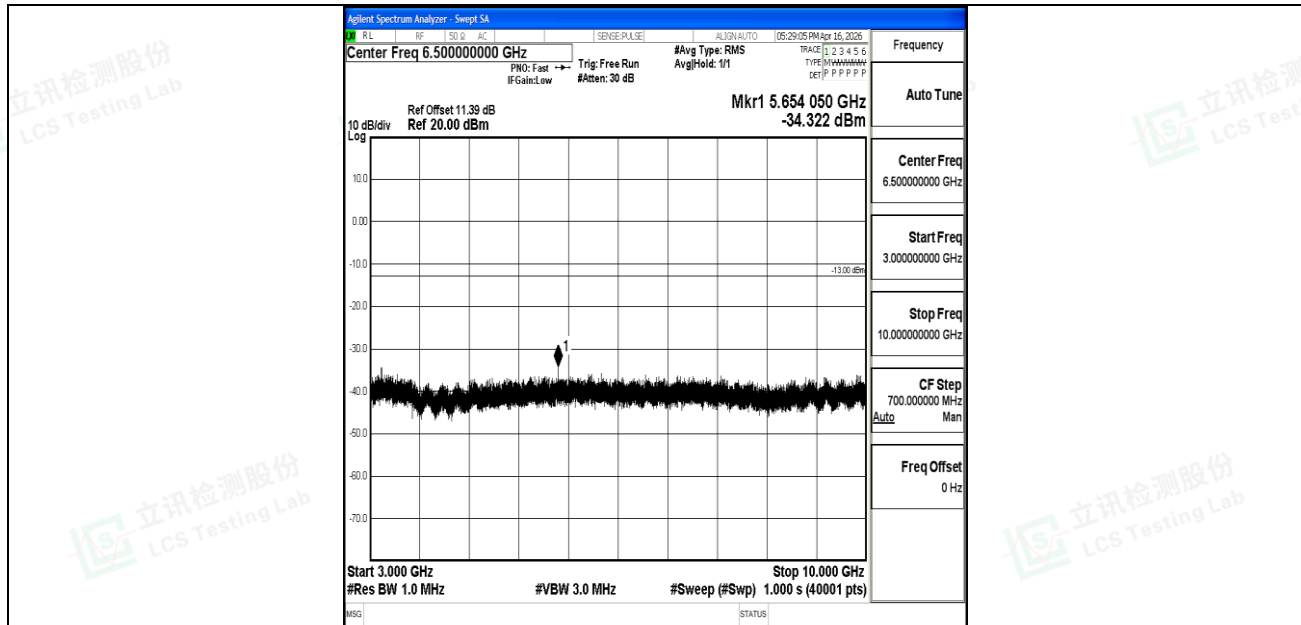


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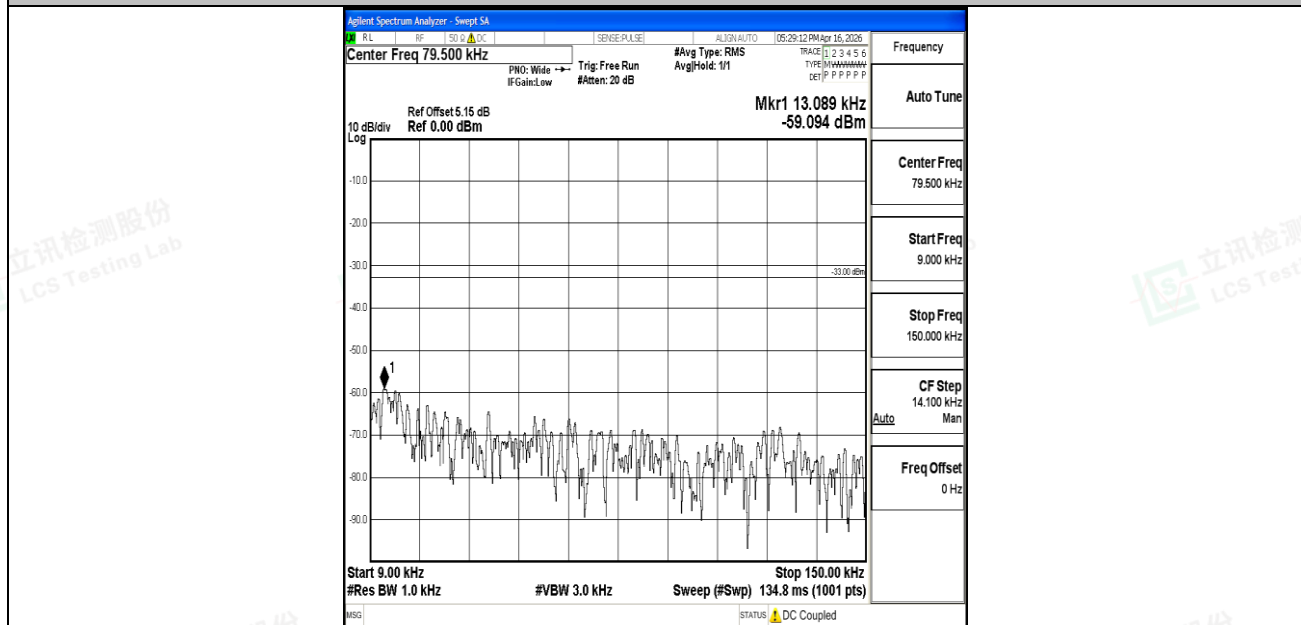
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Band14_5MHz_QPSK_23305_1RB#0_3000~10000_3000~10000



Band14_5MHz_16QAM_23305_1RB#0_0.009~0.15_0.009~0.15

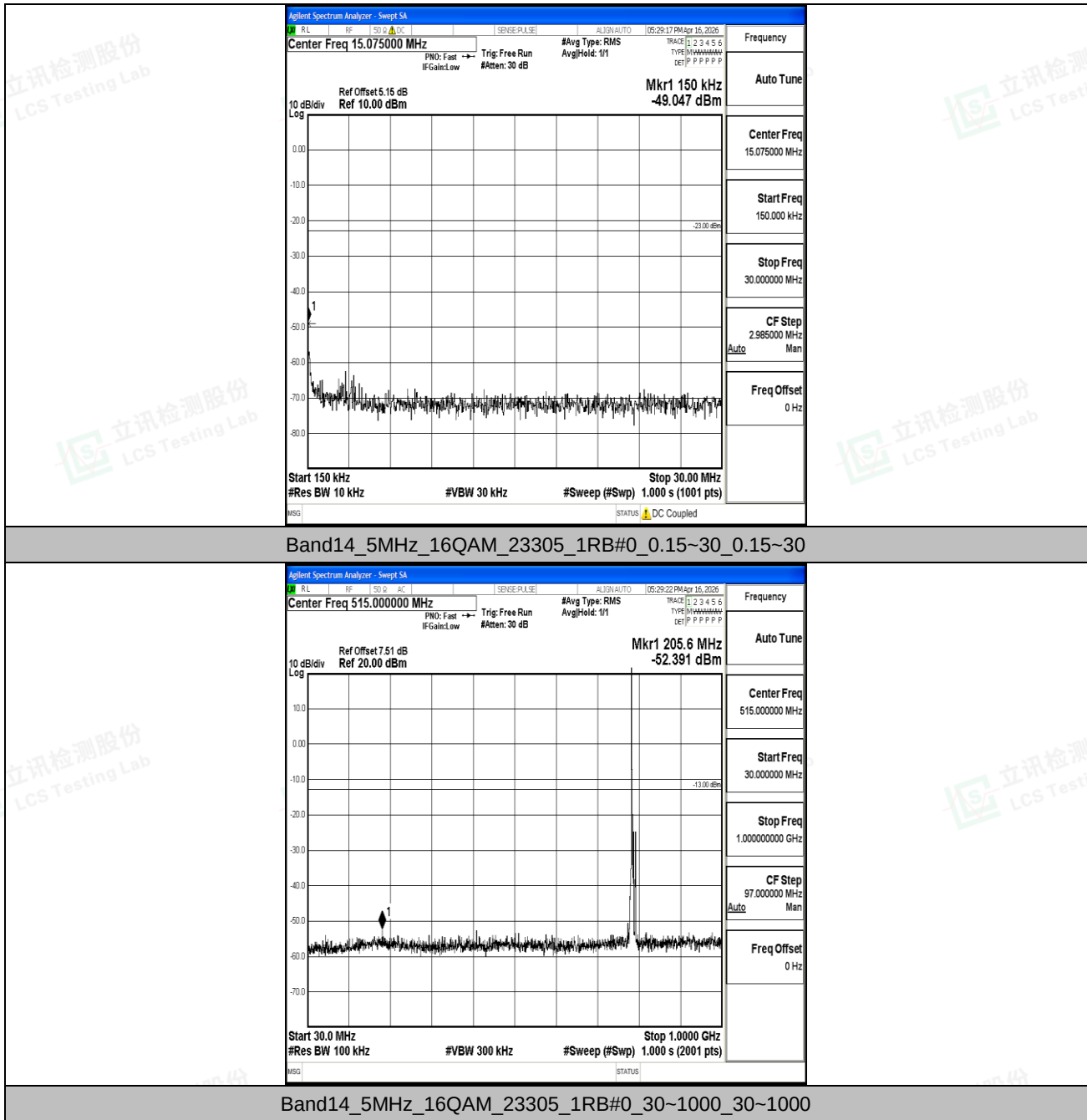


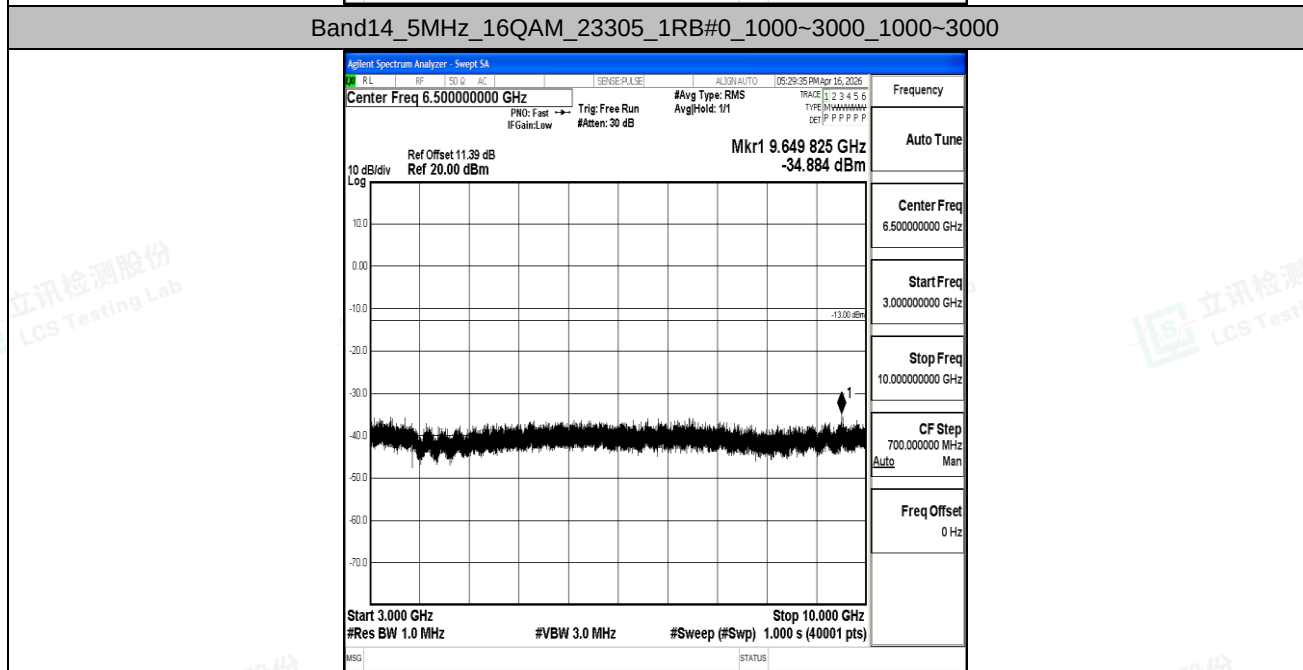
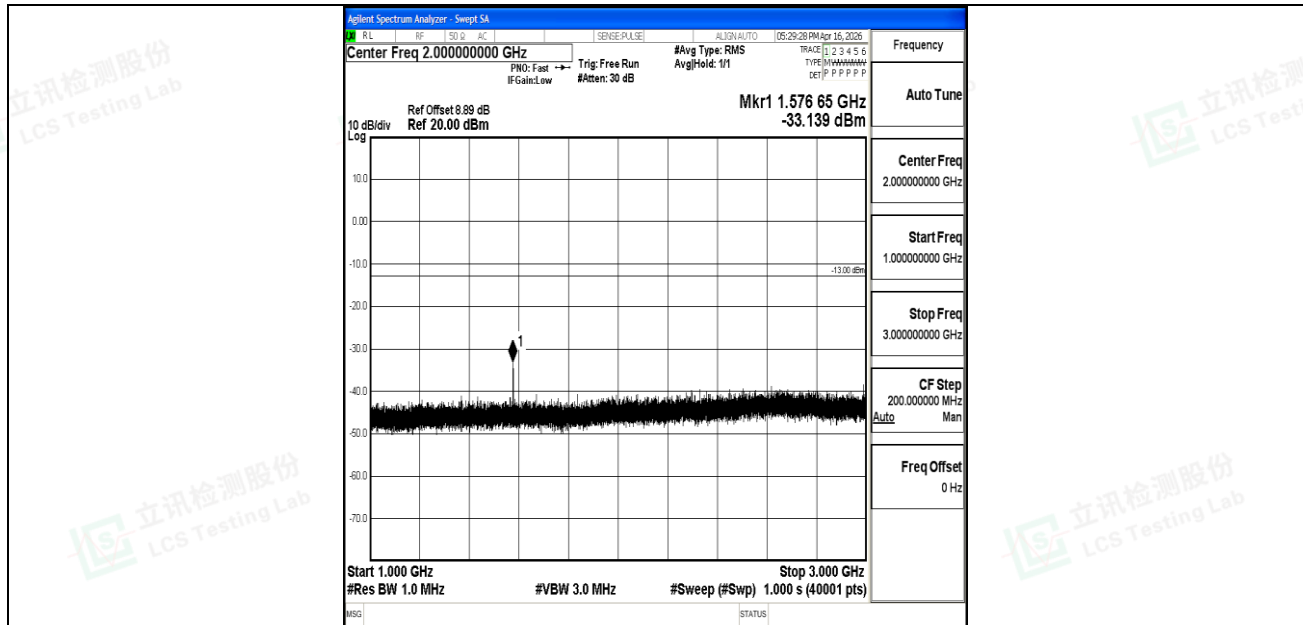
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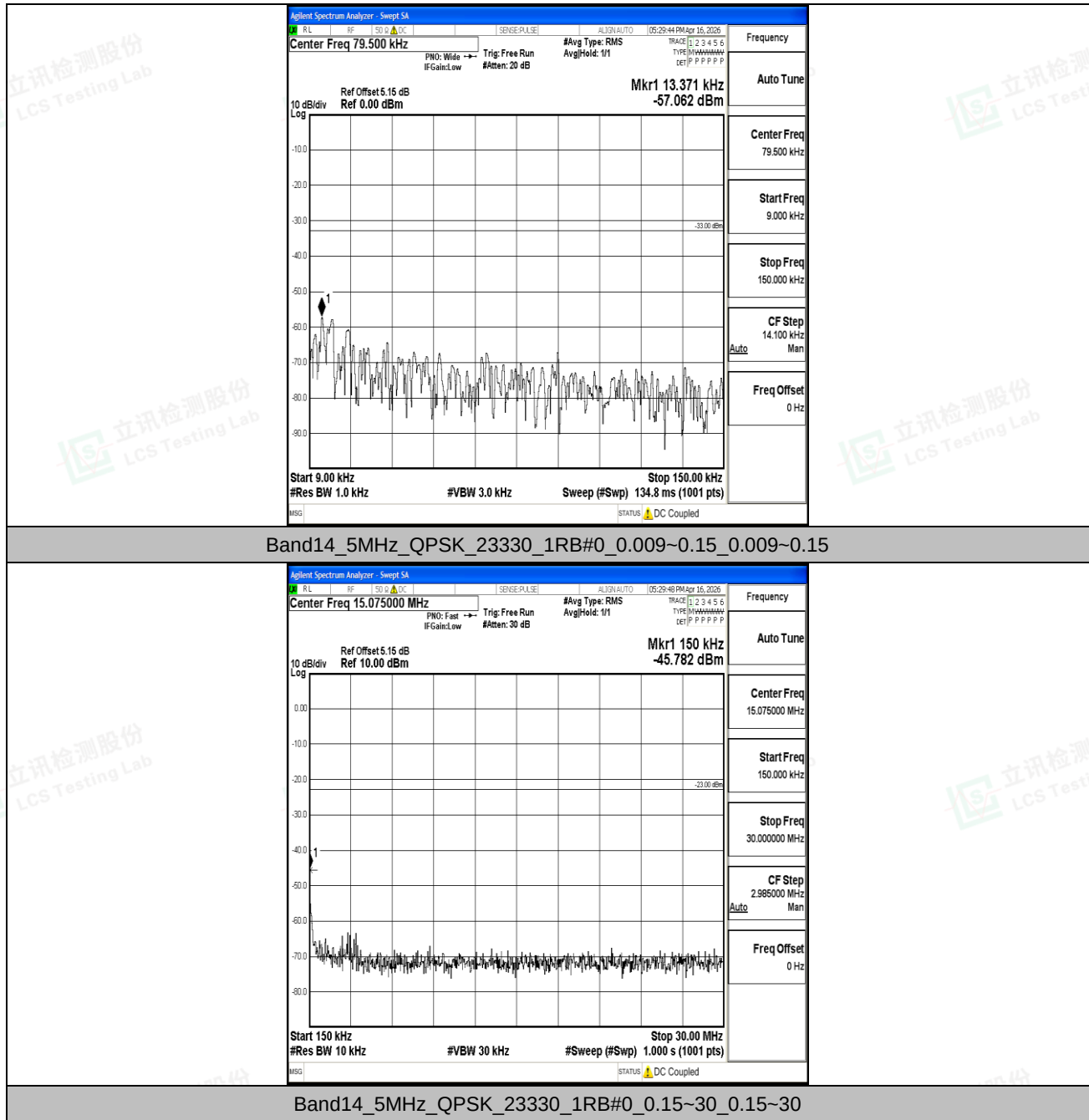
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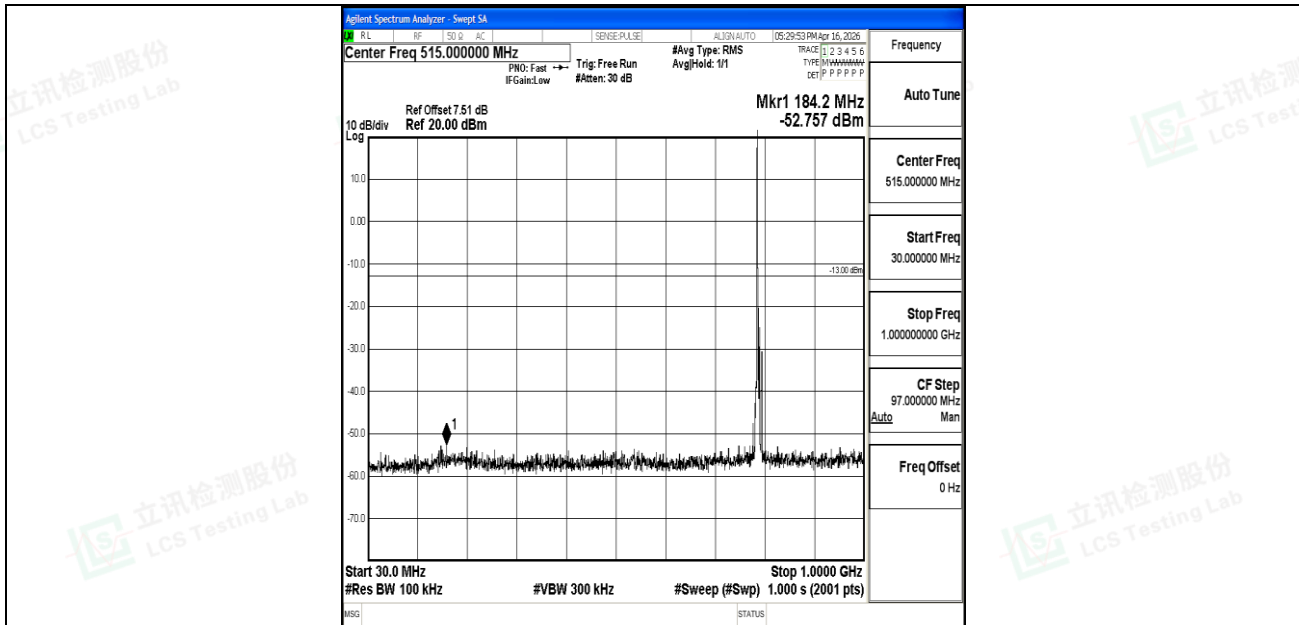
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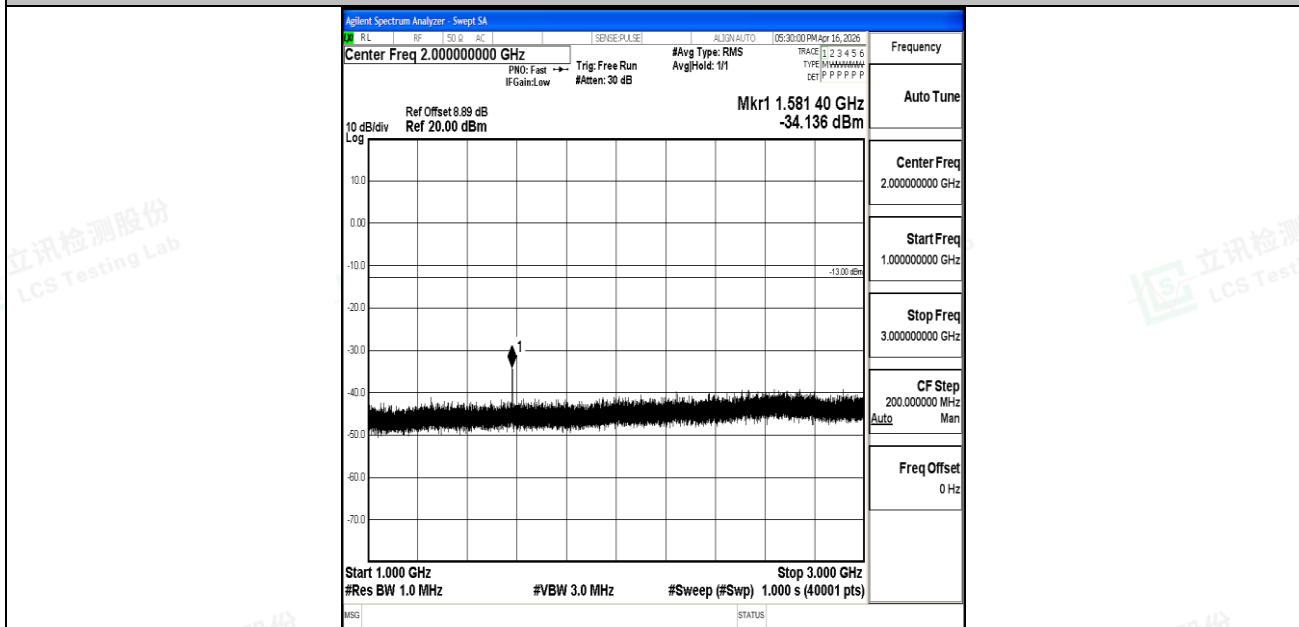








Band14_5MHz_QPSK_23330_1RB#0_30~1000_30~1000



Band14_5MHz_QPSK_23330_1RB#0_1000~3000_1000~3000

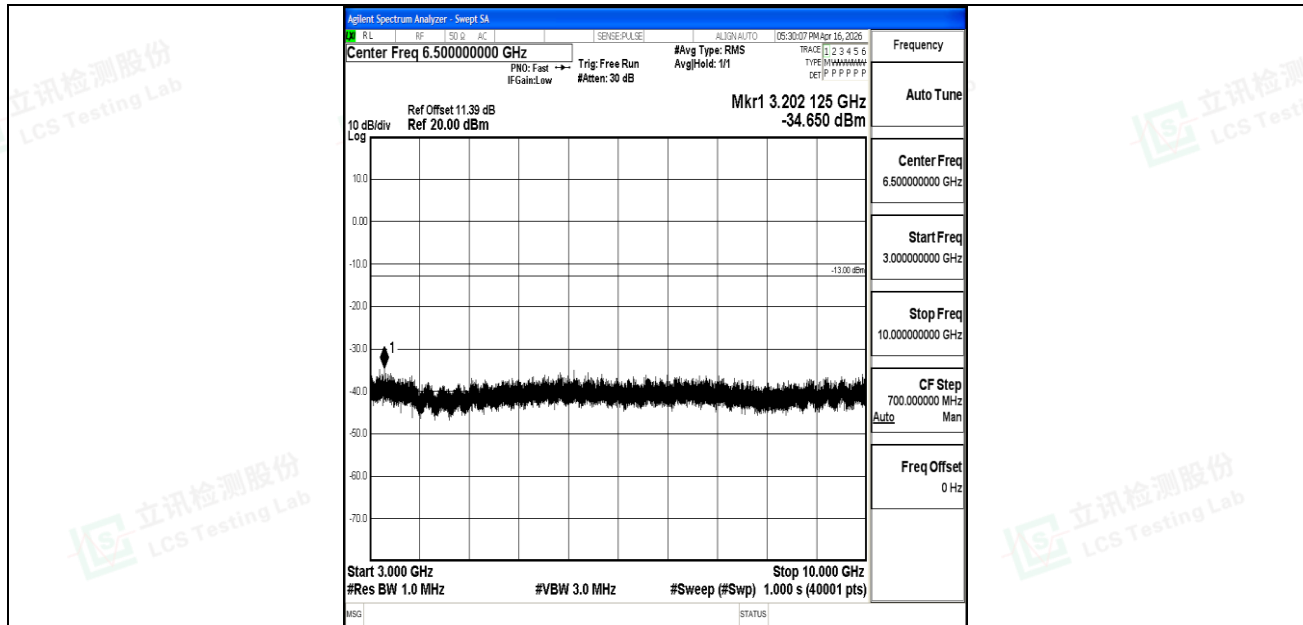


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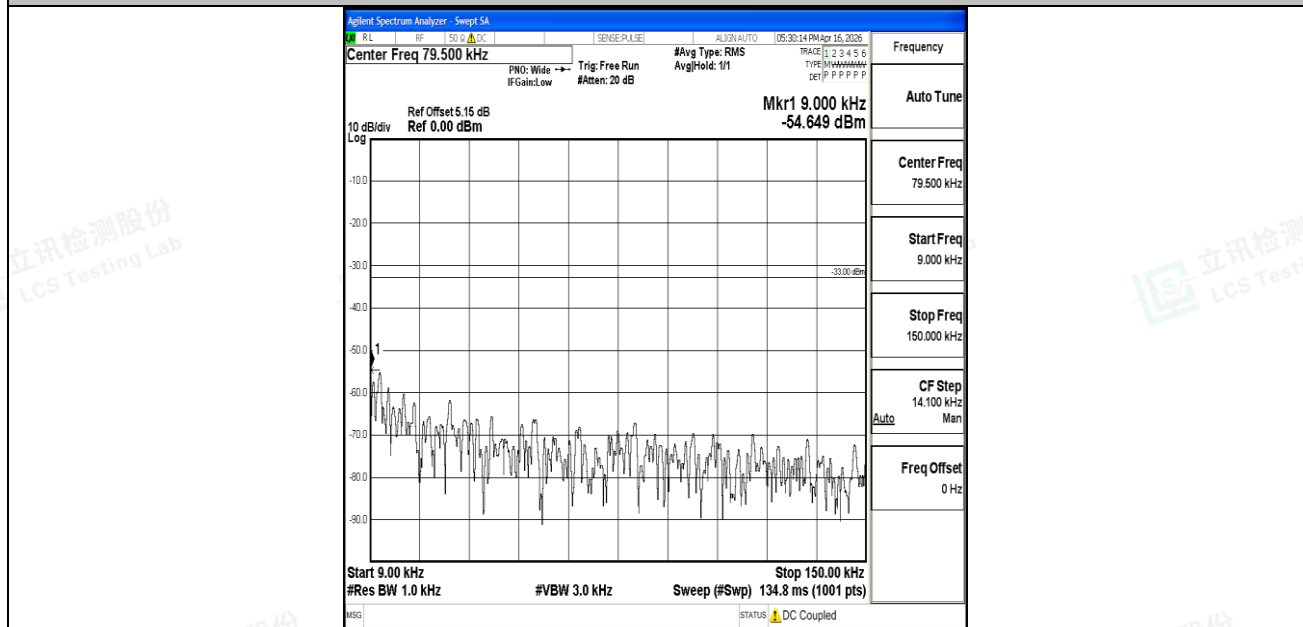
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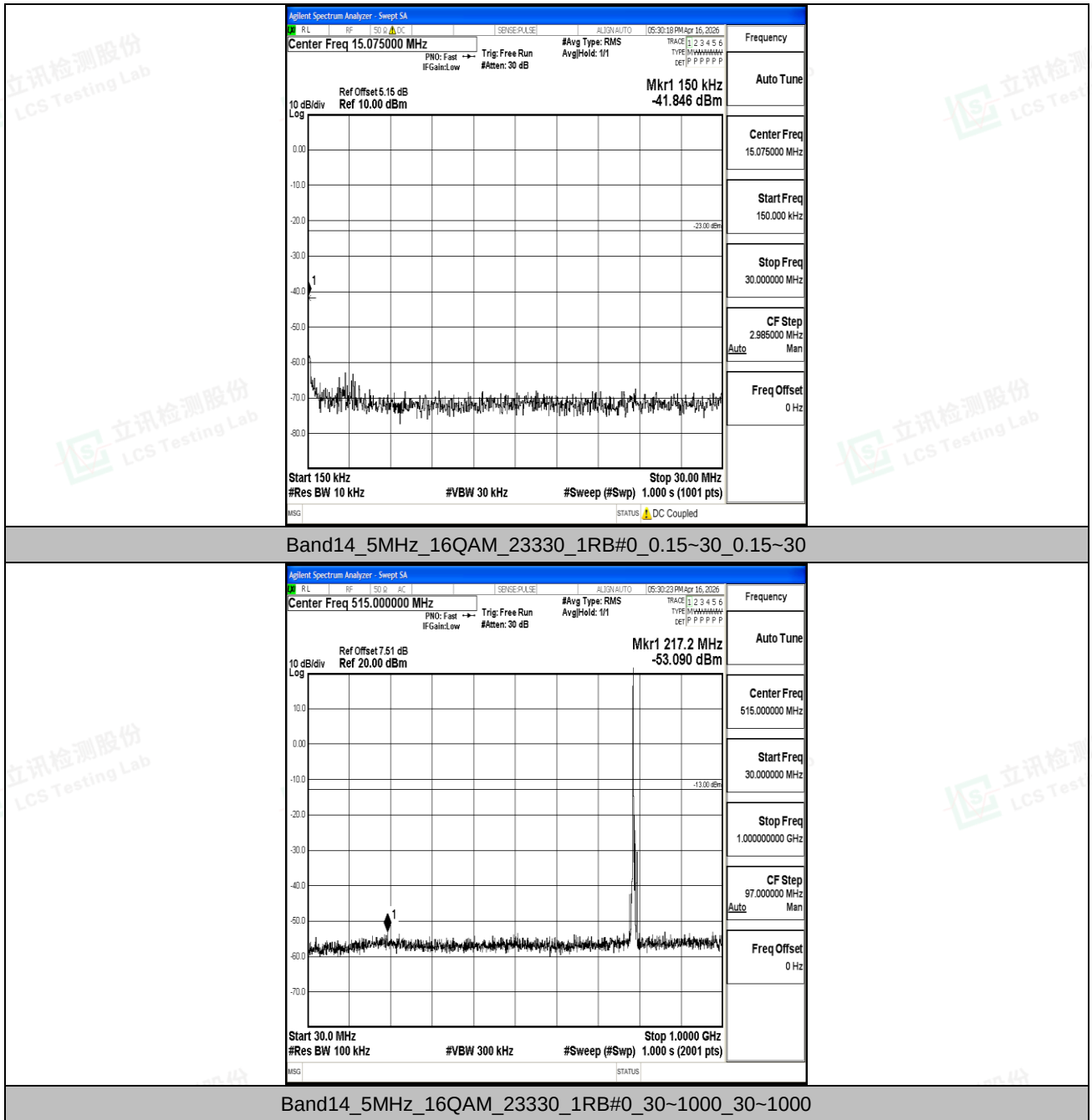


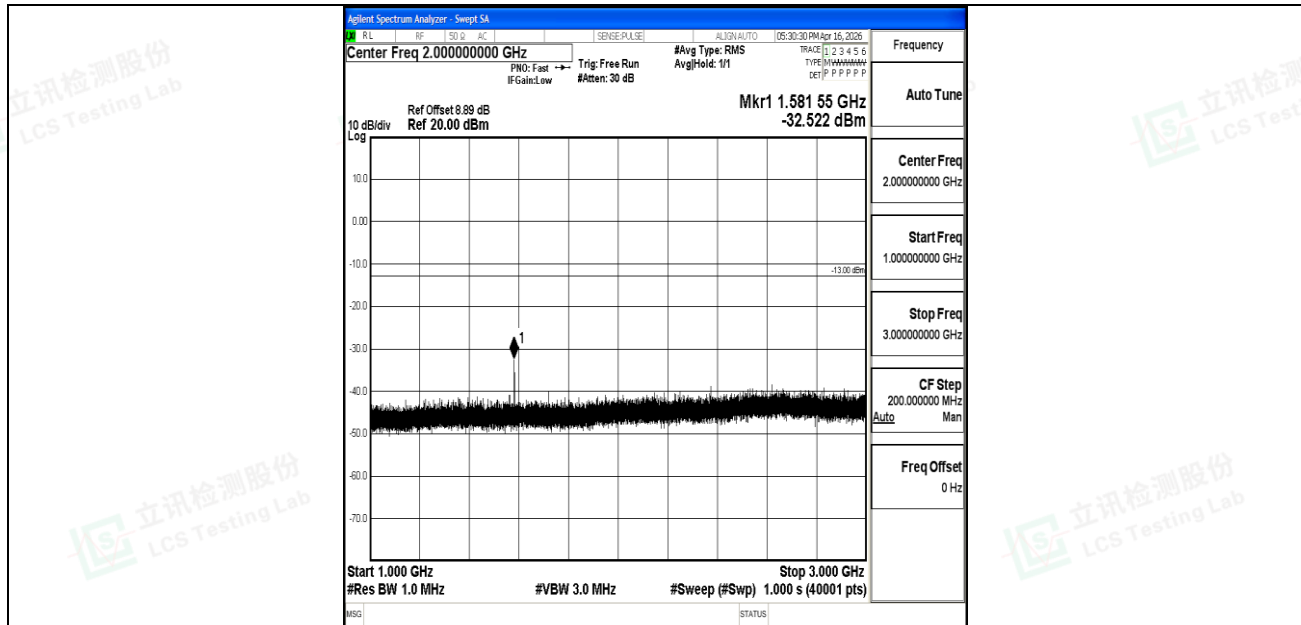
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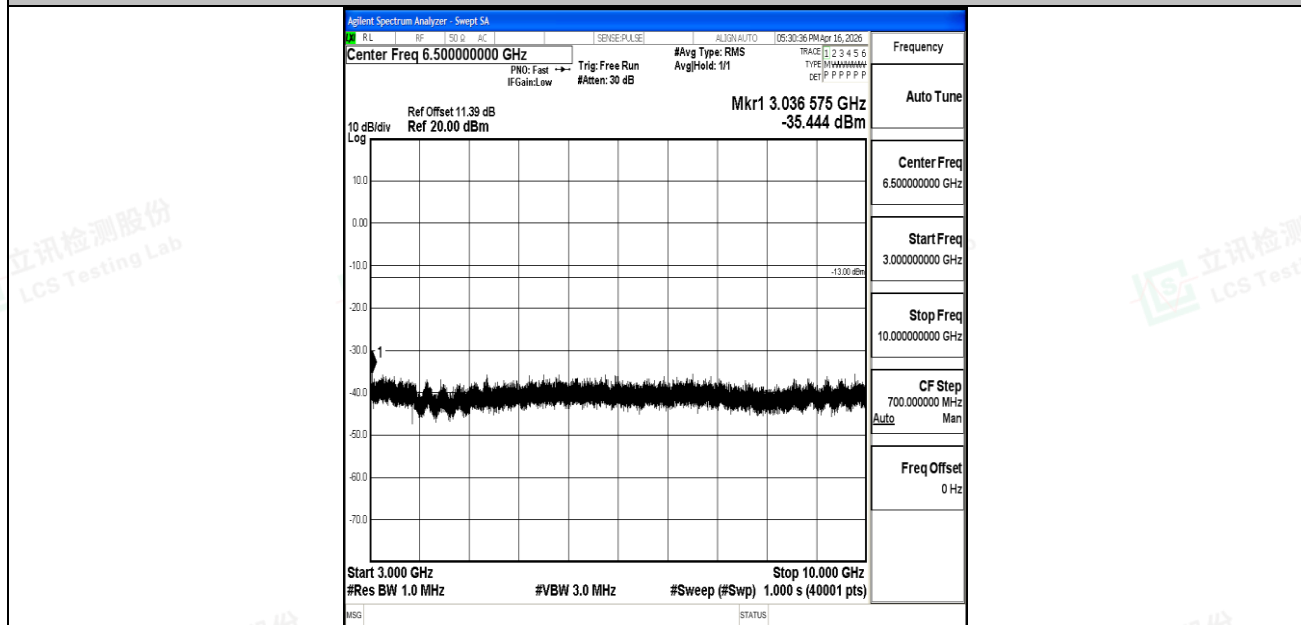
Band14_5MHz_16QAM_23330_1RB#0_0.009~0.15_0.009~0.15







Band14_5MHz_16QAM_23330_1RB#0_1000~3000_1000~3000



Band14_5MHz_16QAM_23330_1RB#0_3000~10000_3000~10000

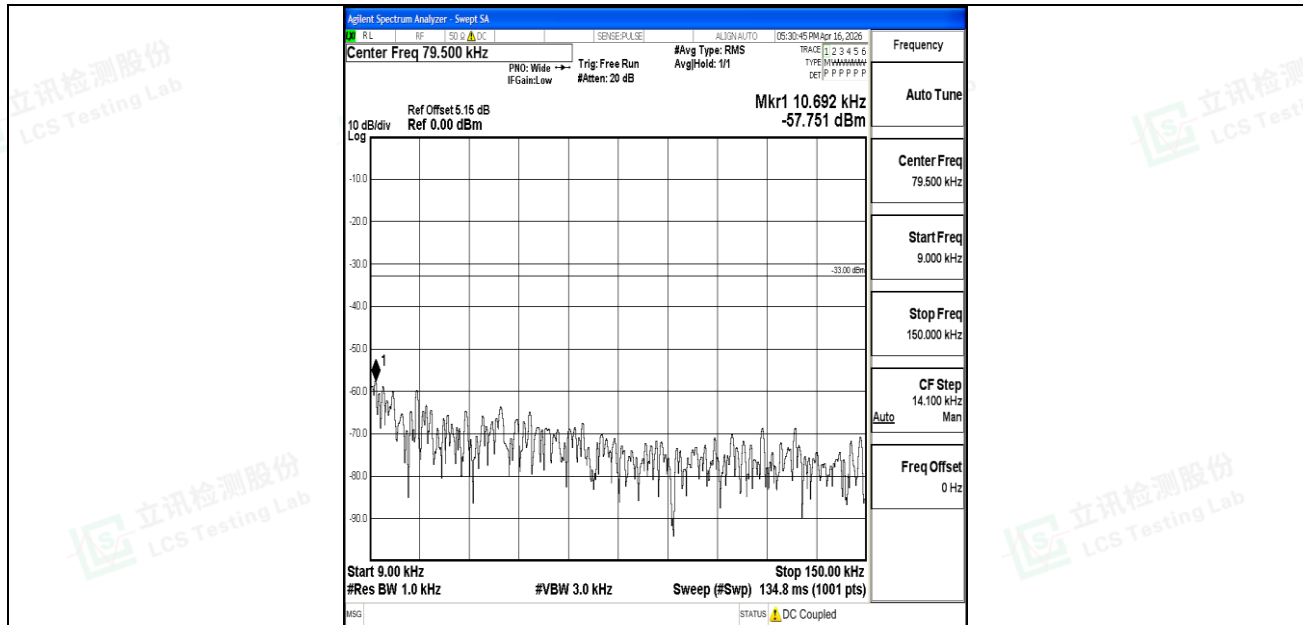


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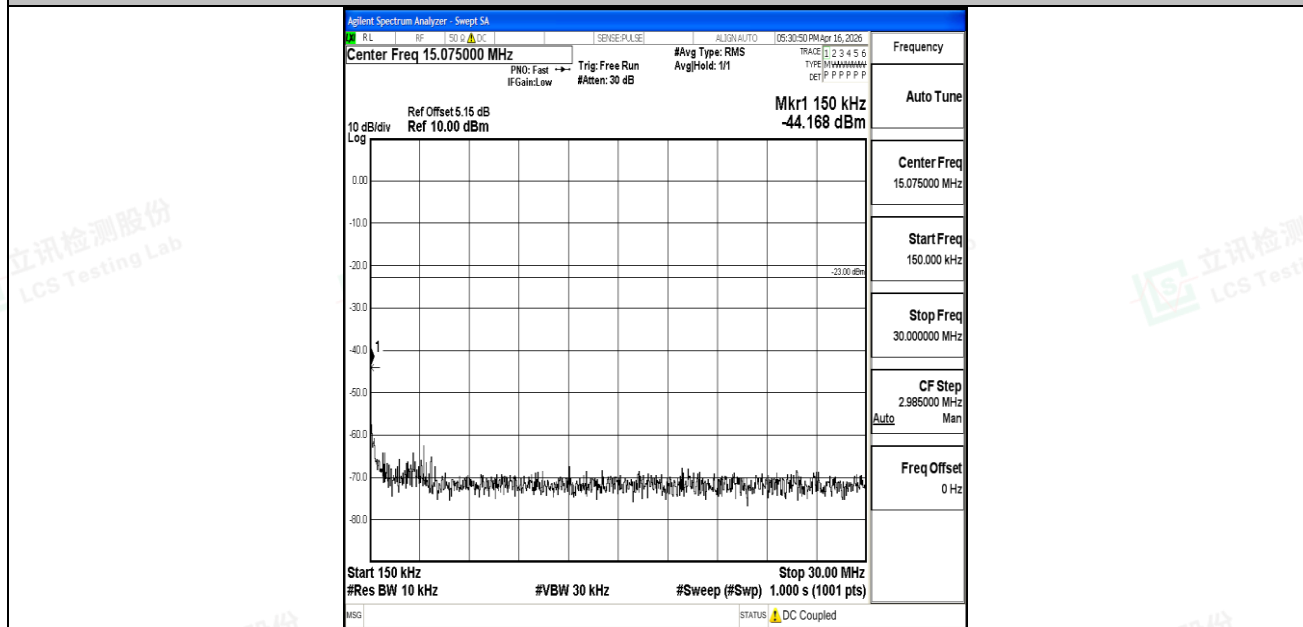
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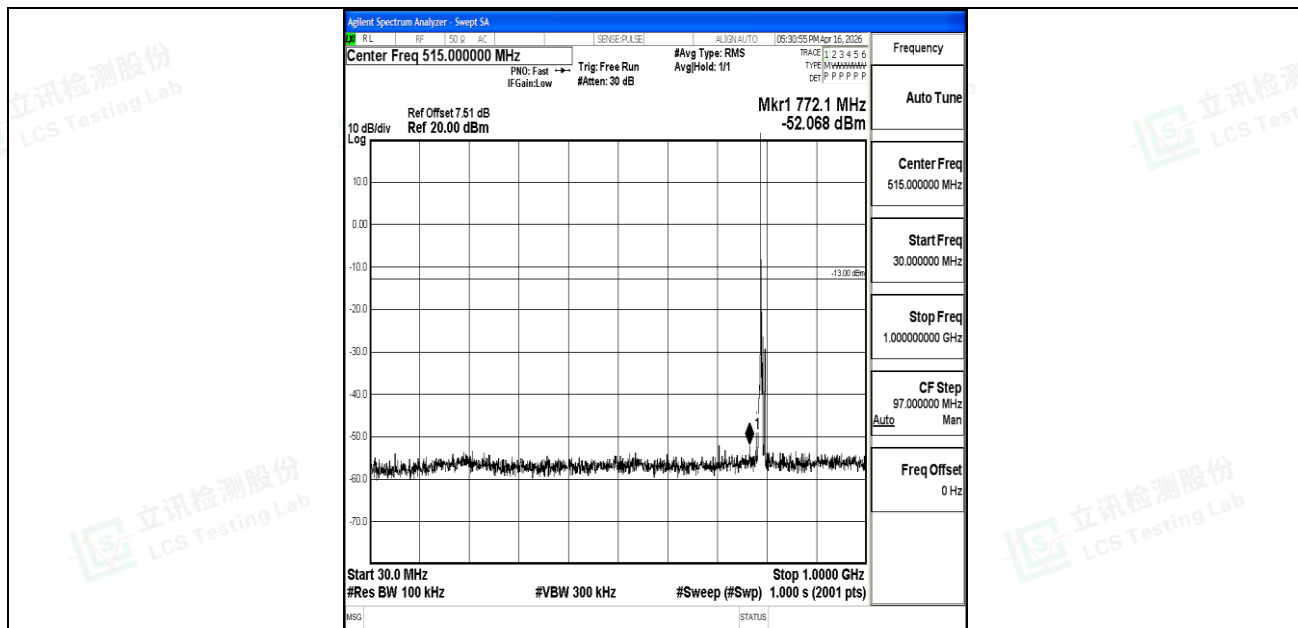


Band14_5MHz_QPSK_23355_1RB#0_0.009~0.15_0.009~0.15

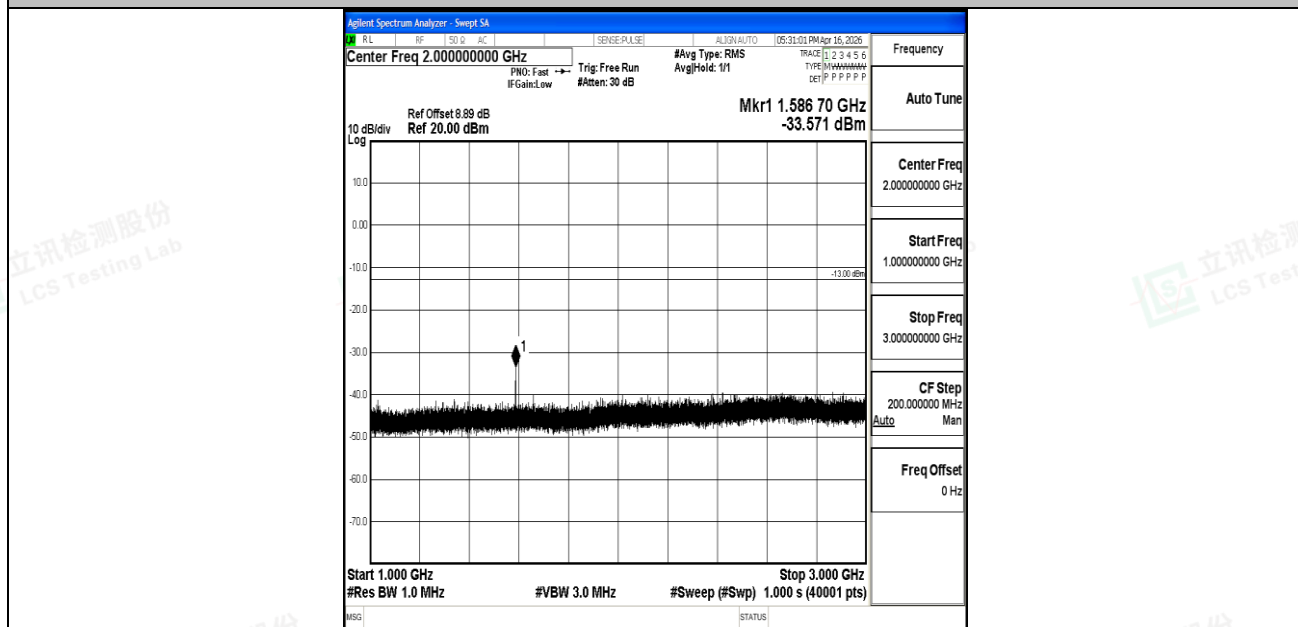


Band14_5MHz_QPSK_23355_1RB#0_0.15~30_0.15~30



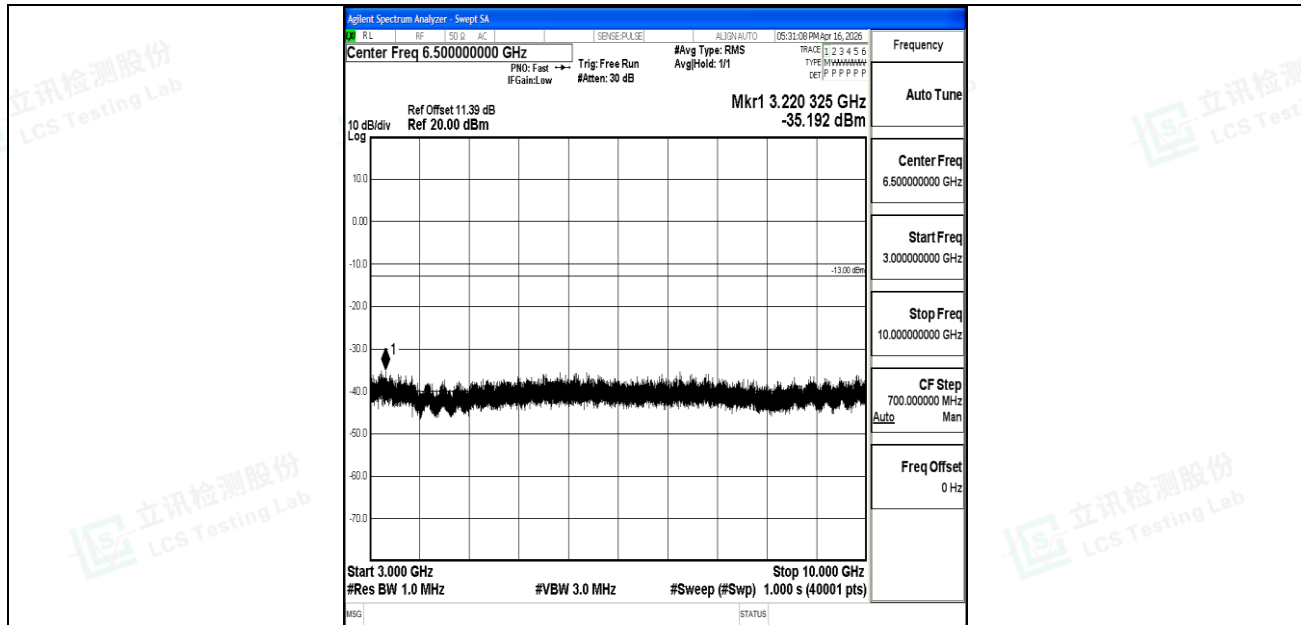


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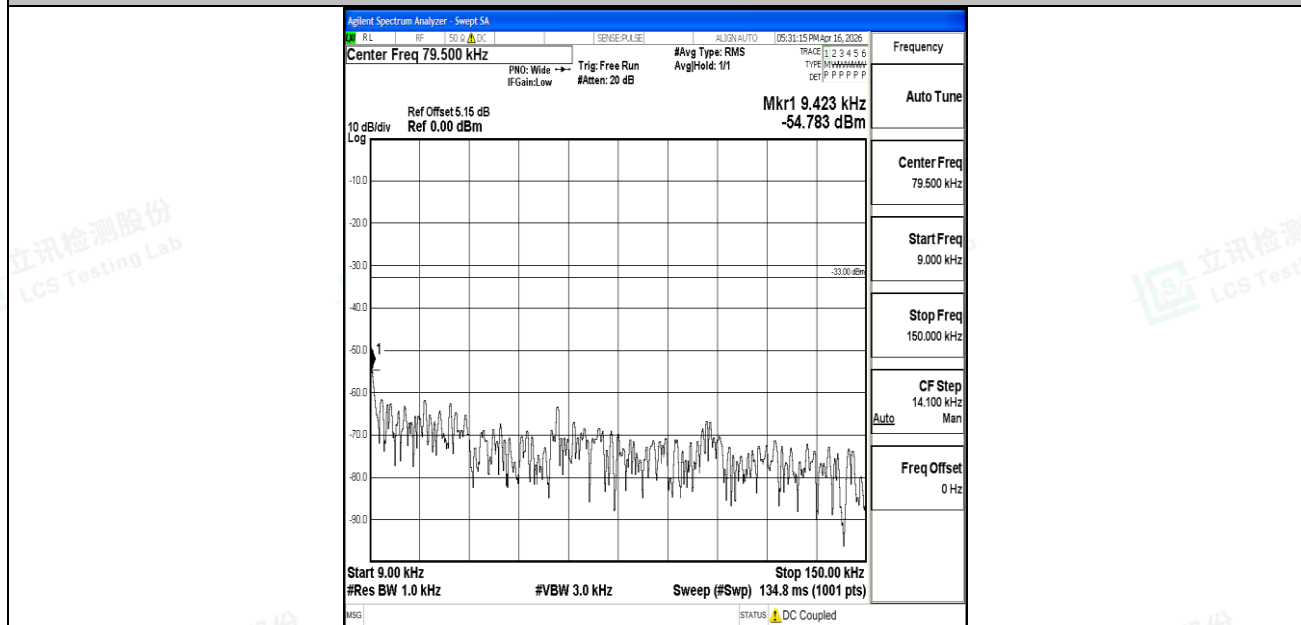


Band14_5MHz_QPSK_23355_1RB#0_1000~3000_1000~3000





Band14_5MHz_QPSK_23355_1RB#0_3000~10000_3000~10000



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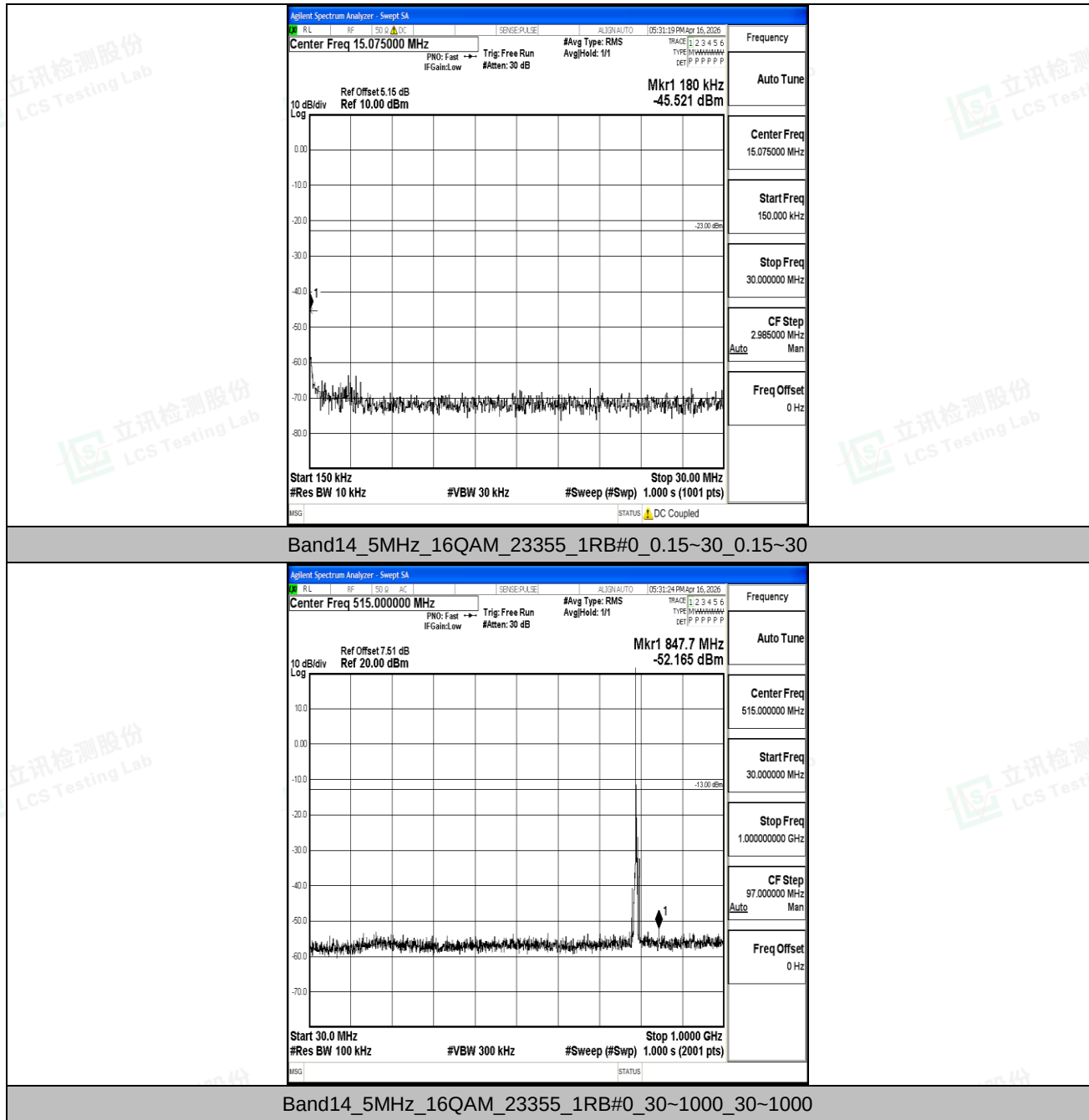


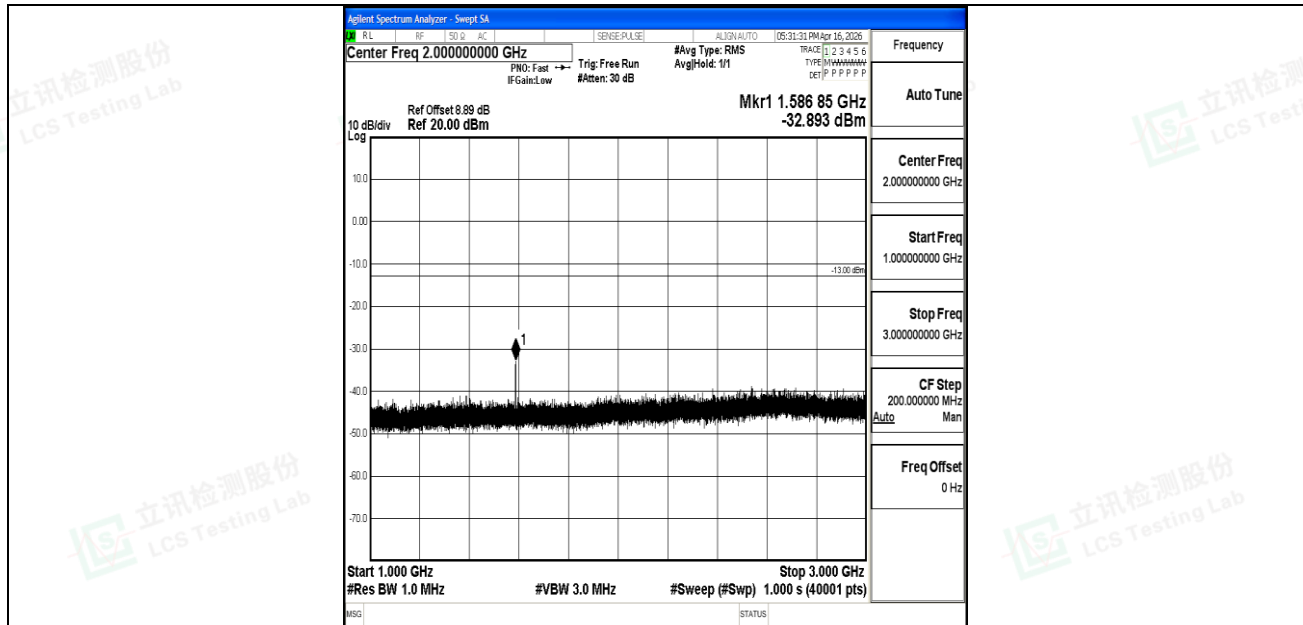
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

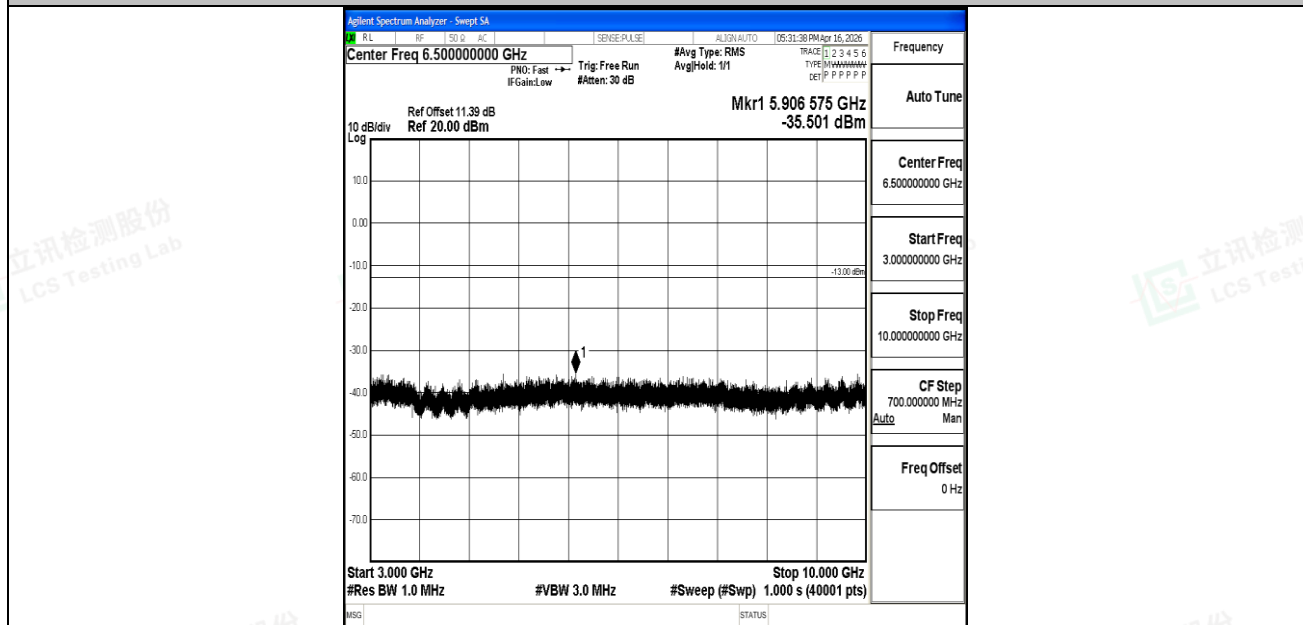
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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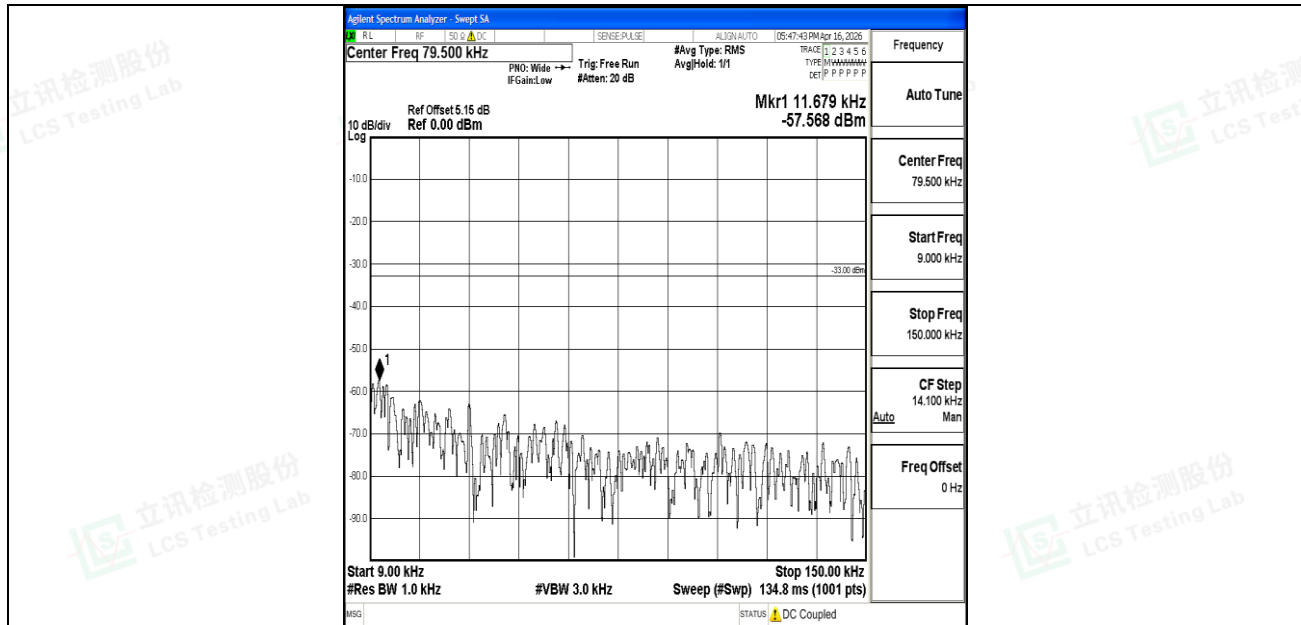


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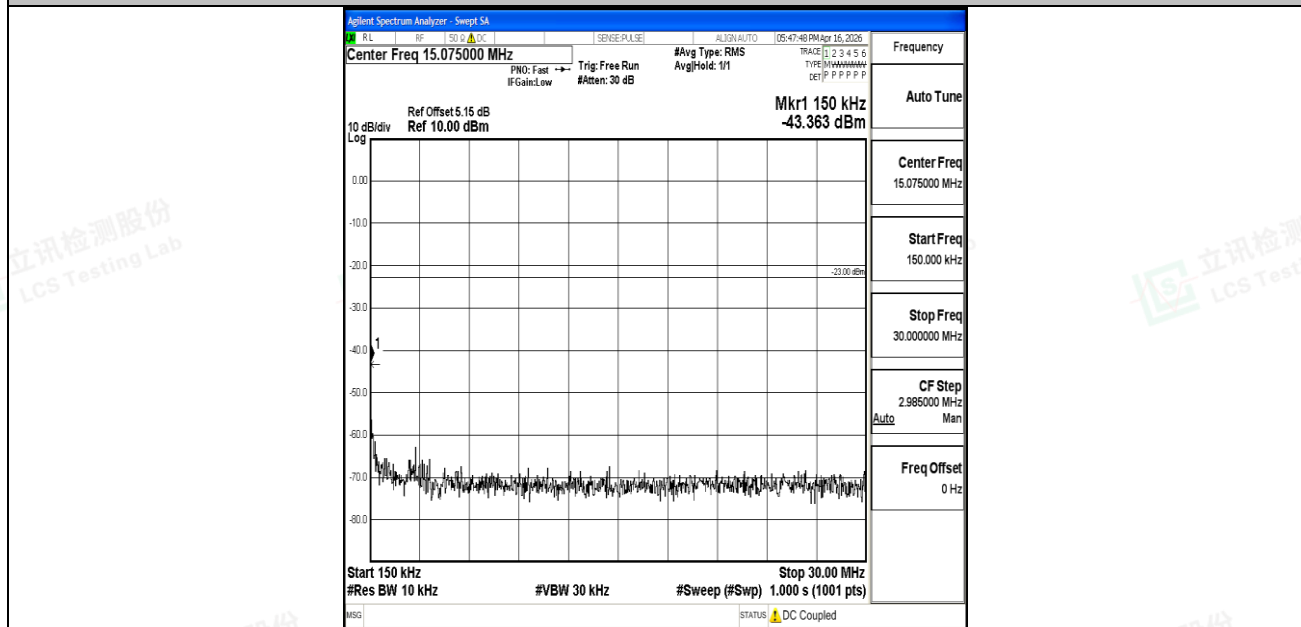


Band14_5MHz_16QAM_23355_1RB#0_3000~10000_3000~10000





Band14_10MHz_QPSK_23330_1RB#0_0.009~0.15_0.009~0.15



Band14_10MHz_QPSK_23330_1RB#0_0.15~30_0.15~30

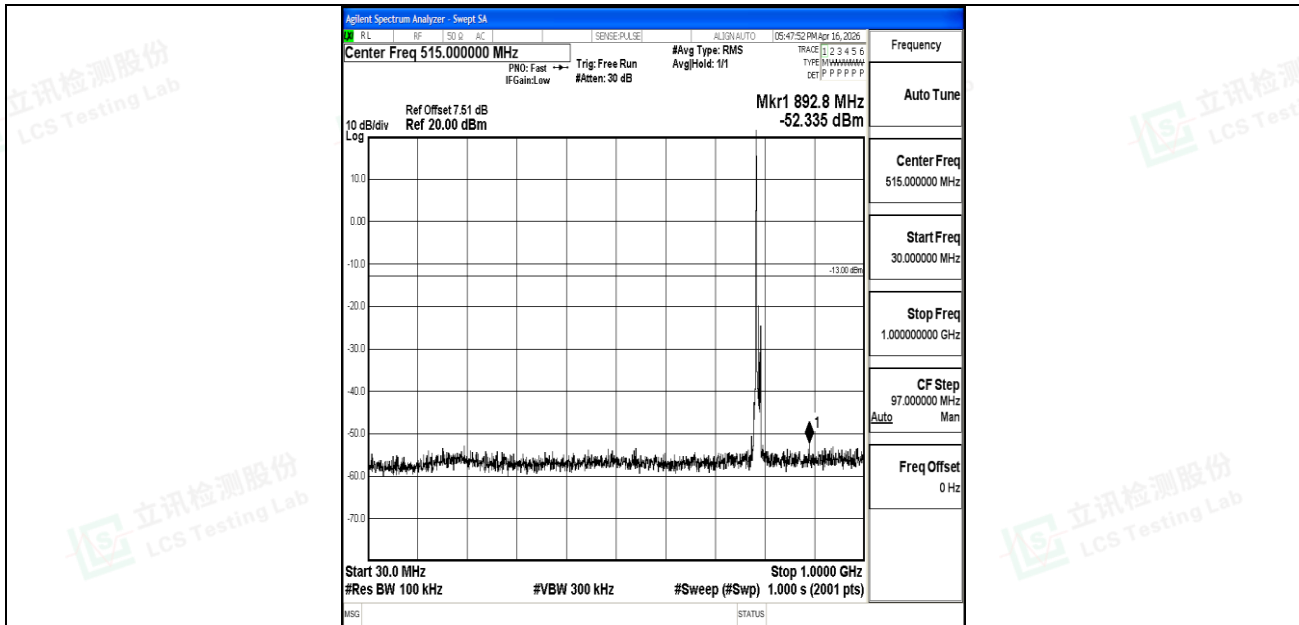


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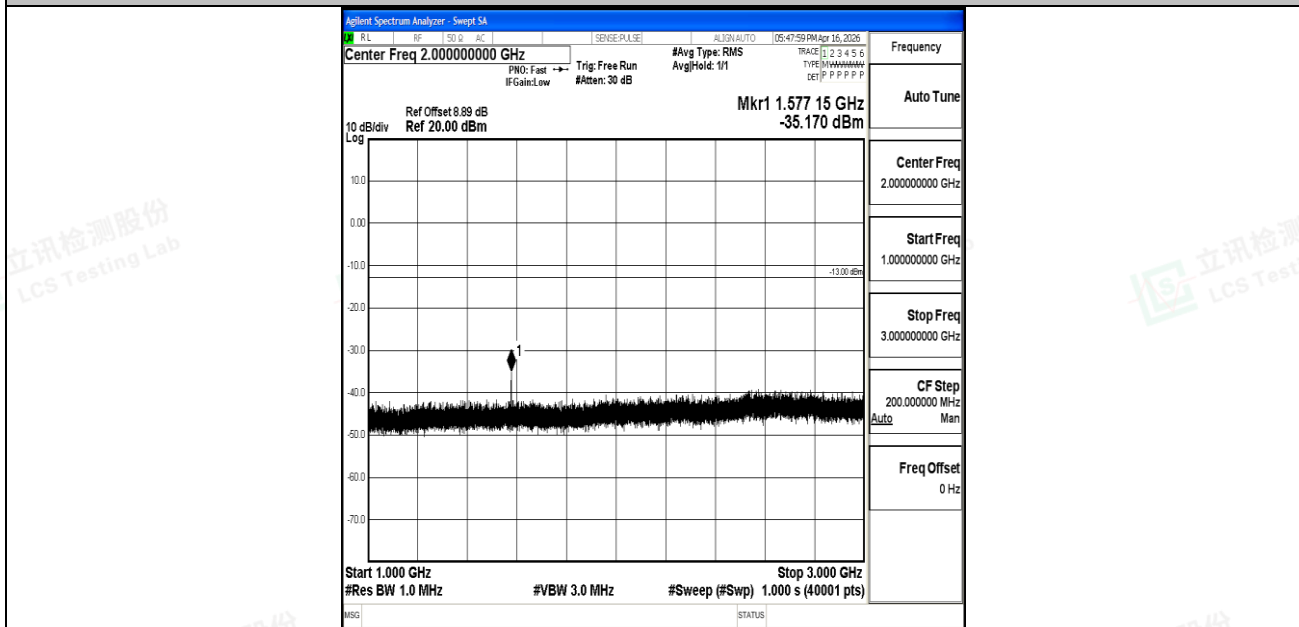
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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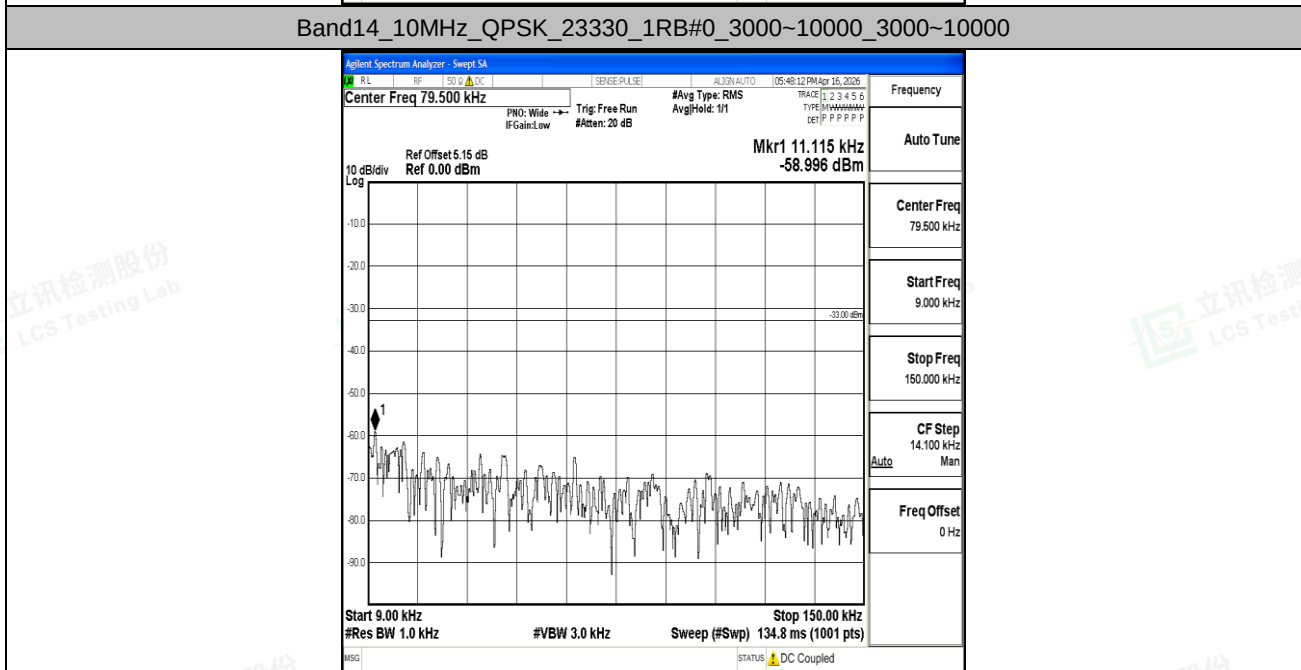
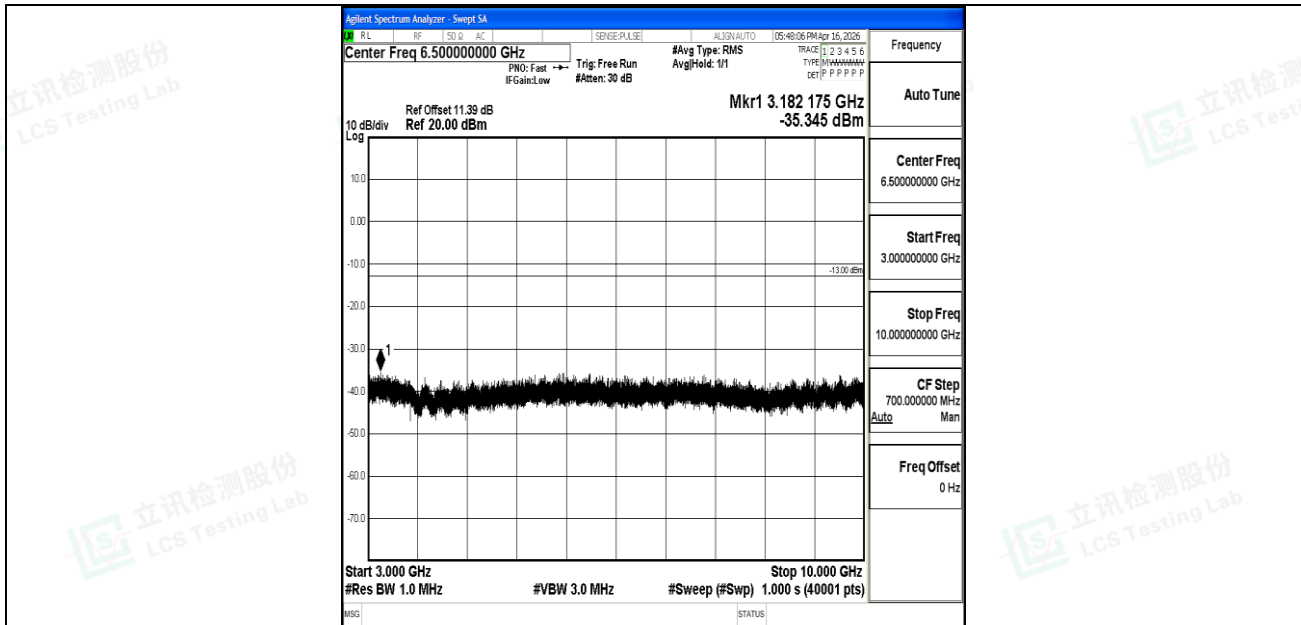


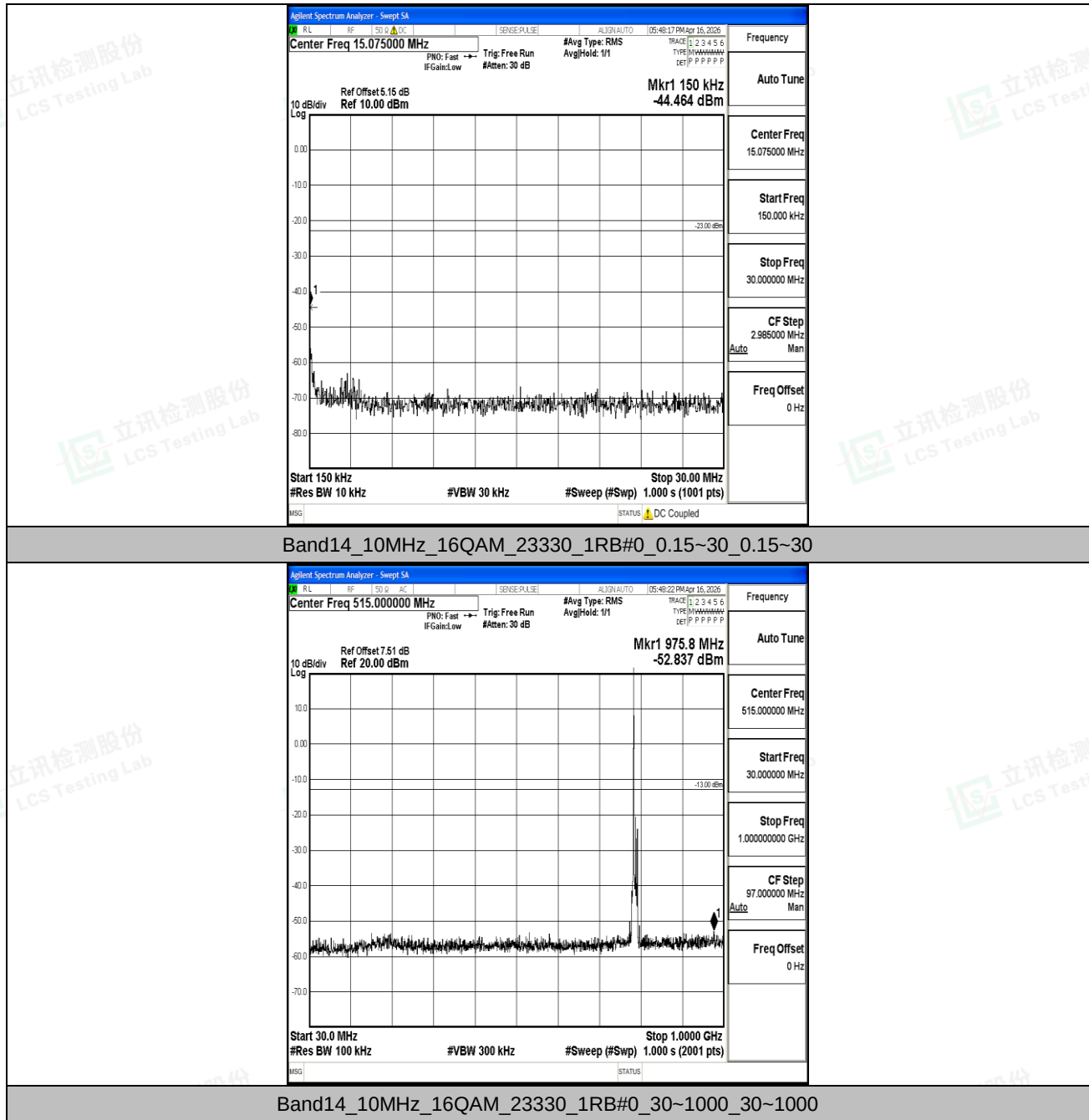
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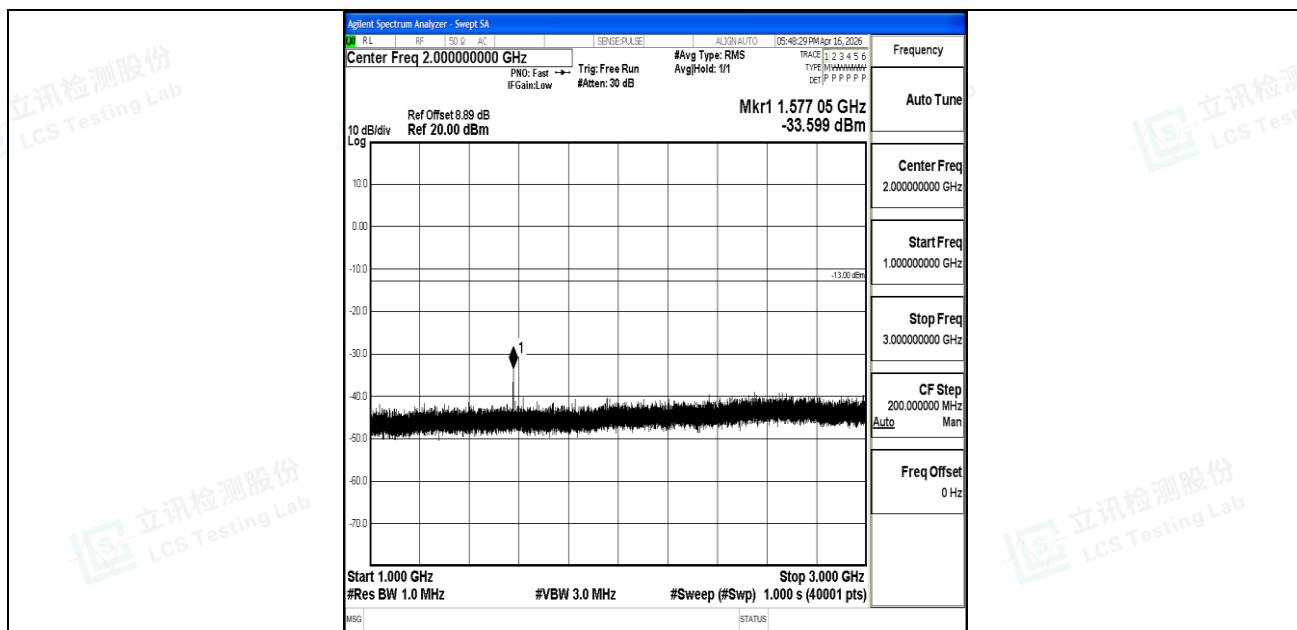


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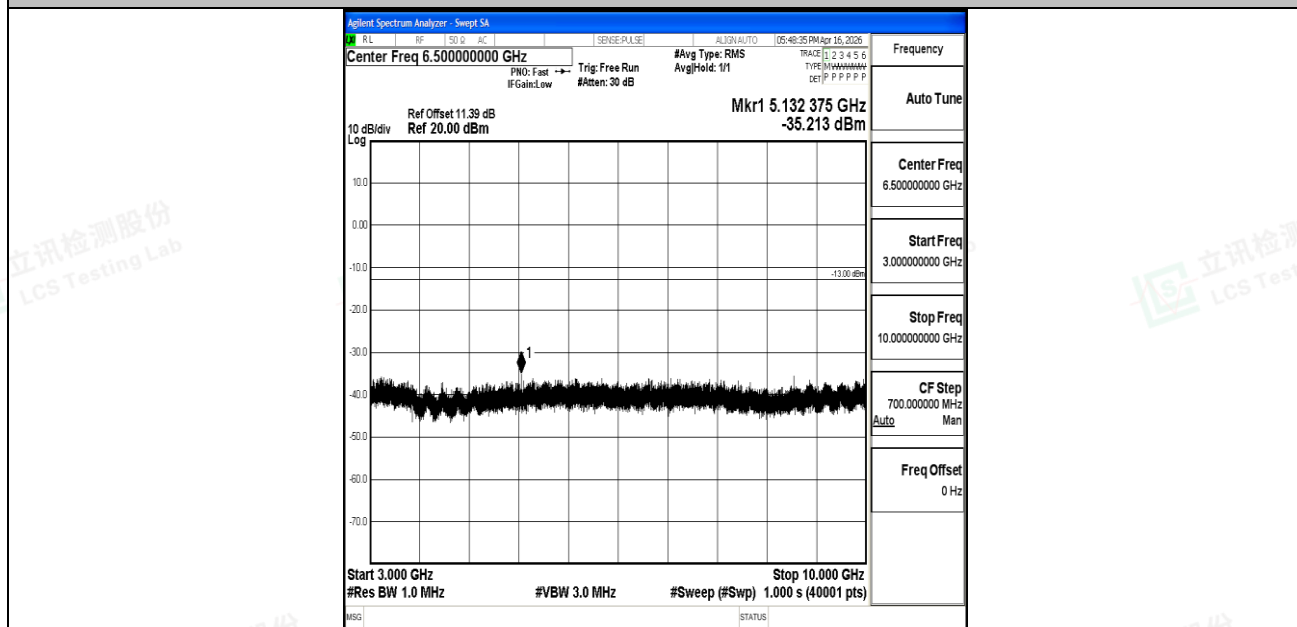








Band14_10MHz_16QAM_23330_1RB#0_1000~3000_1000~3000



Band14_10MHz_16QAM_23330_1RB#0_3000~10000_3000~10000

