



Appendix G: Test Data for E-UTRA Band 13

Product Name: GNSS Receiver

Test Model: A100 Pro

Environmental Conditions

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



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G.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.07	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.96	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.33	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.22	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.19	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.1	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.04	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.9	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.03	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.96	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.09	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.01	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.07	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.09	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.1	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.15	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.39	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.33	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.2	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.24	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.15	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.13	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.2	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.12	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.11	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.12	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.16	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.15	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.14	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.09	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.39	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.24	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.27	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.22	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.19	PASS



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Band13	5MHz	16QAM	23255	12RB#0	21.16	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.16	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.21	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.18	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.12	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.19	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.19	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.16	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.09	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.29	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.33	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.25	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.27	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.11	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.05	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.1	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.08	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.12	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.12	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.16	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.06	PASS



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

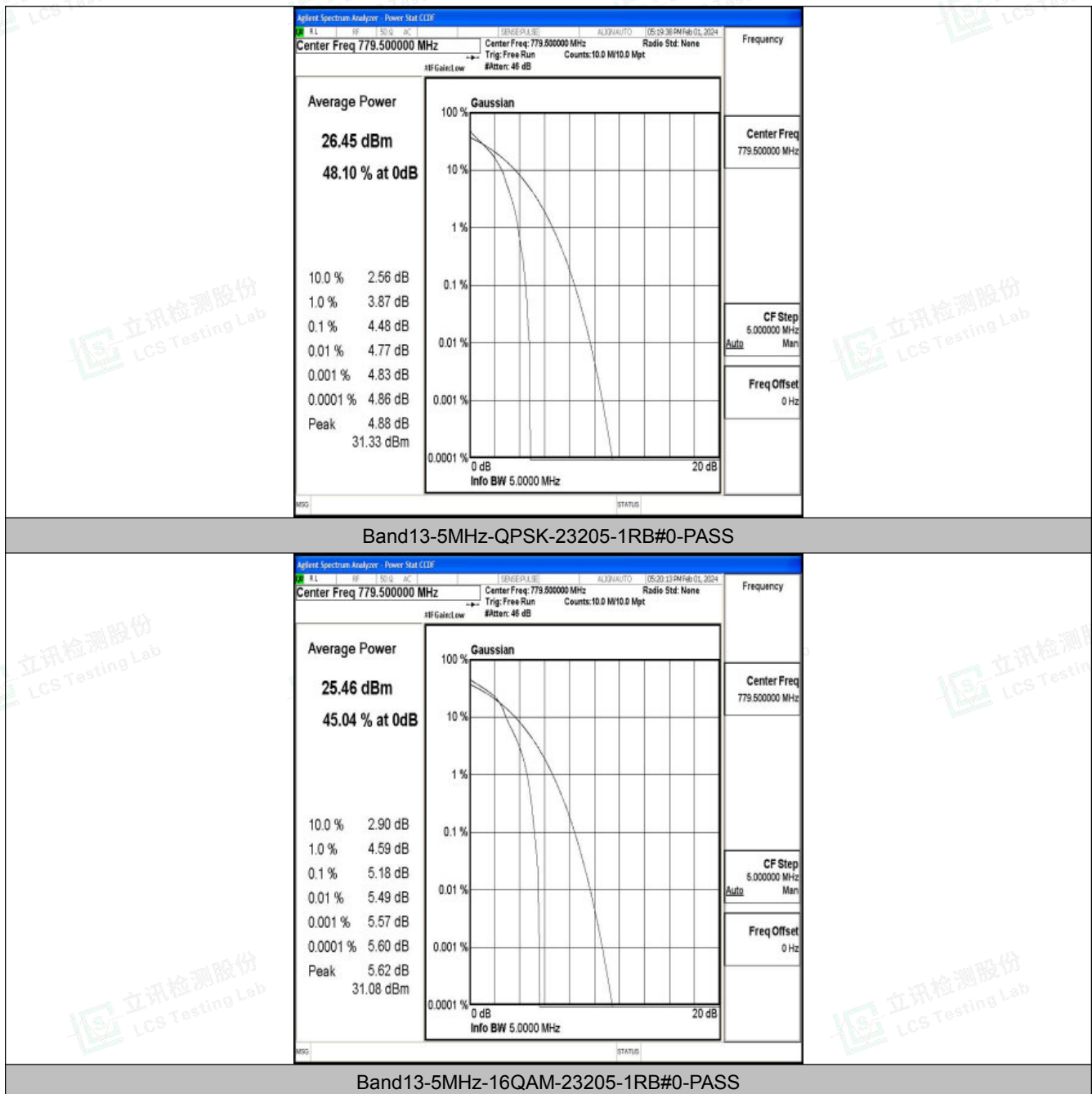
Test Result

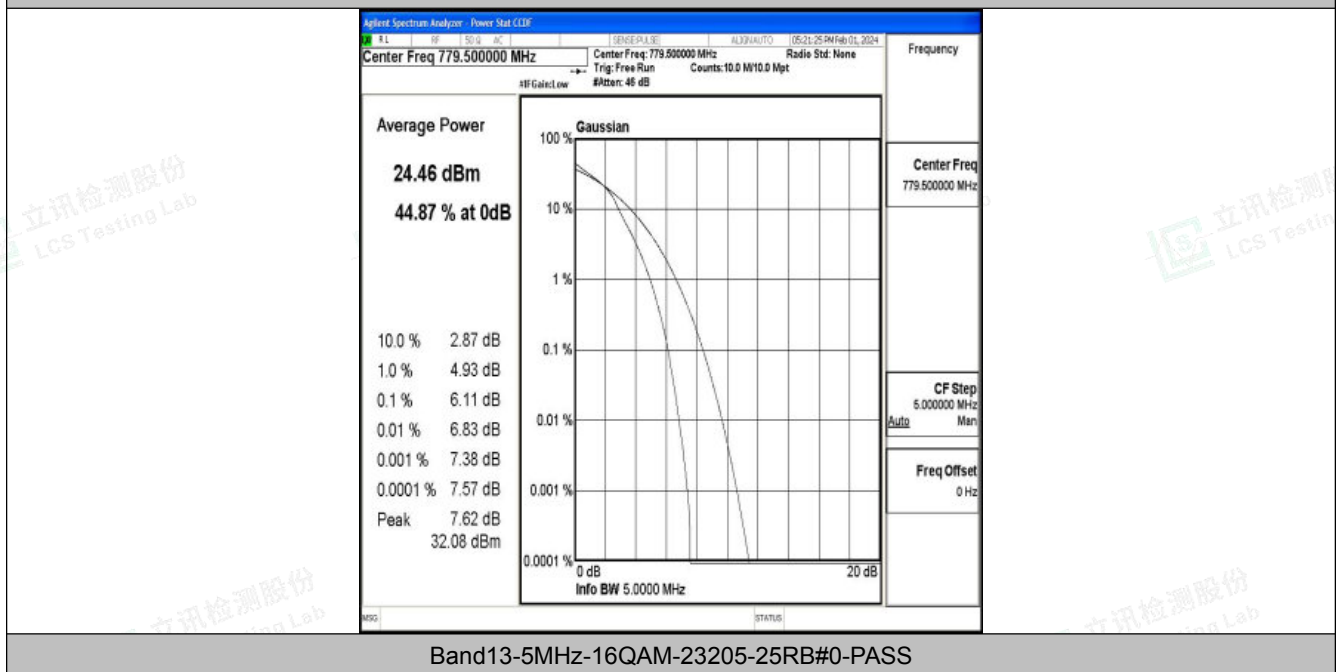
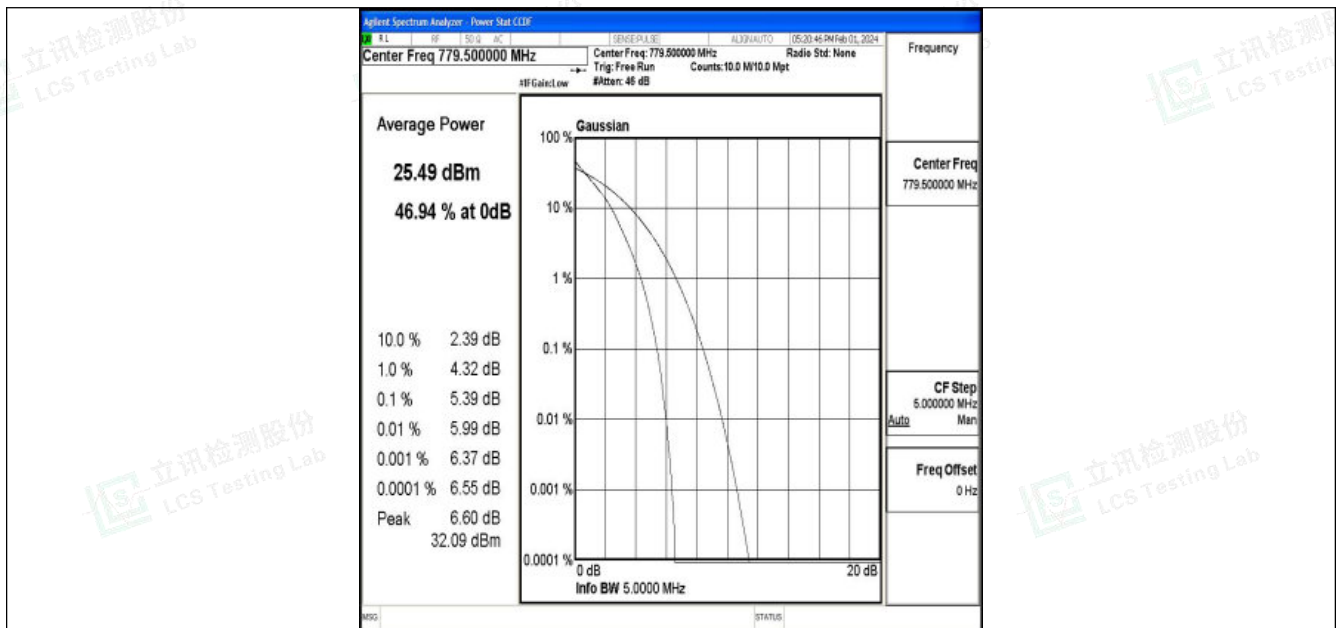
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.48	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.18	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.39	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.11	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.30	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.10	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.35	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.06	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.19	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.95	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.44	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.16	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.29	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.22	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.31	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.09	13	PASS

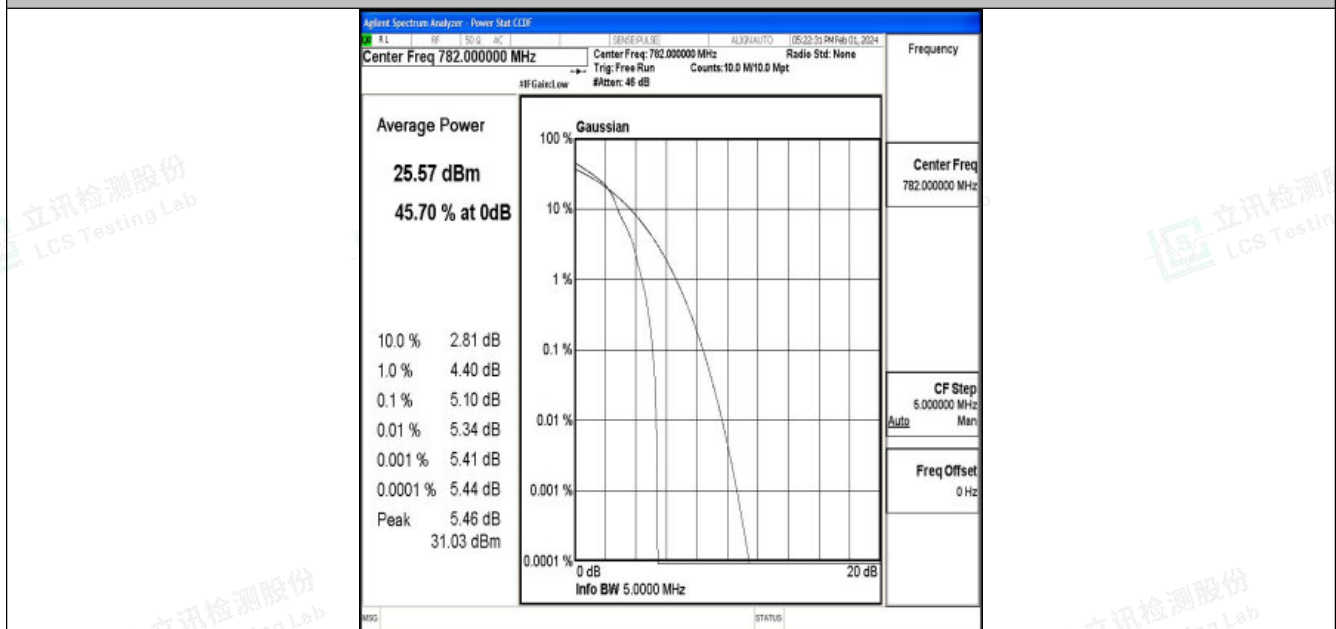
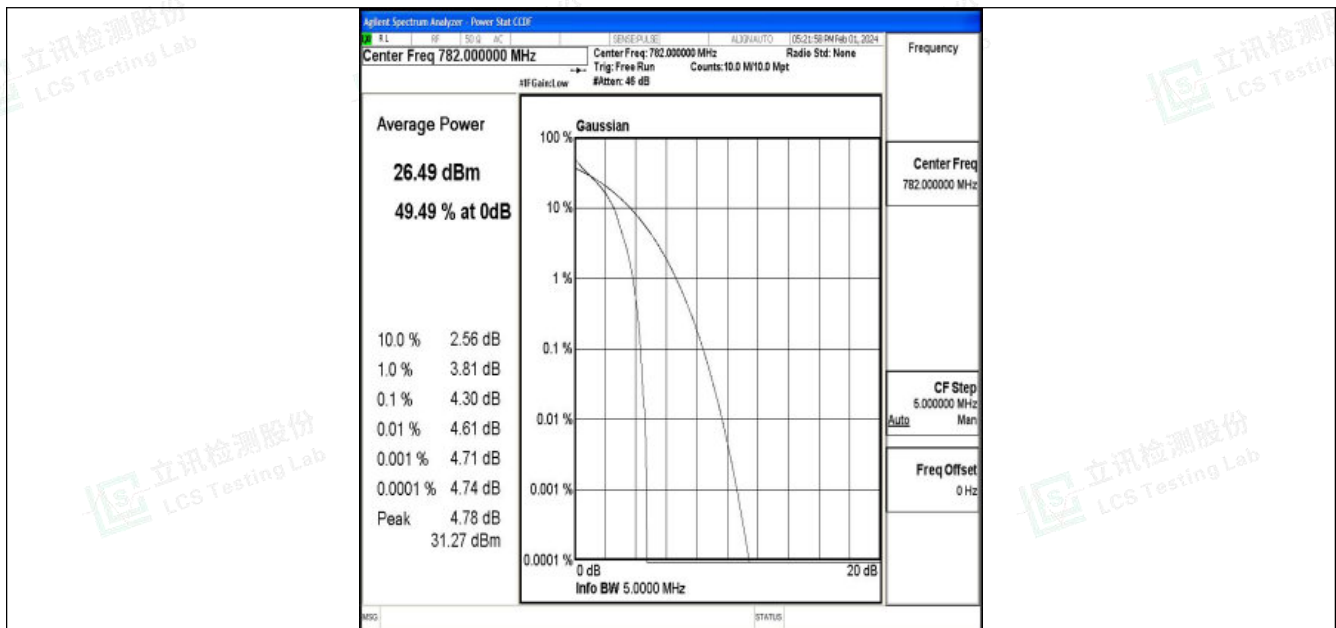


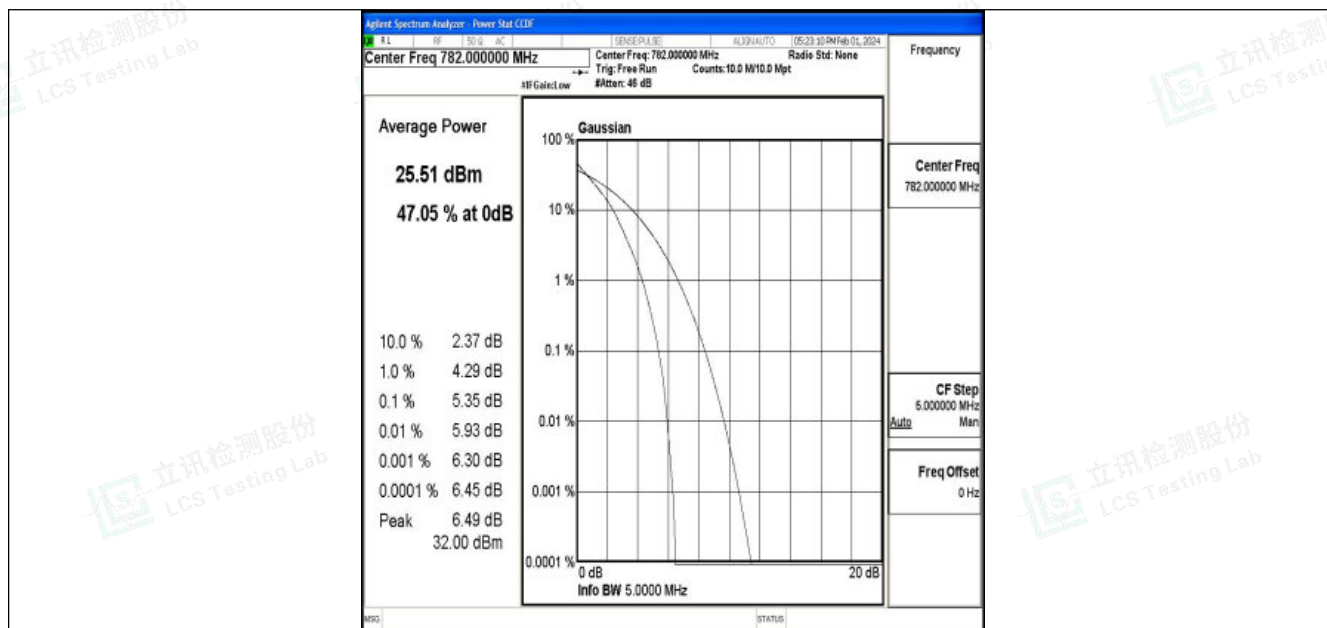


Test Graphs

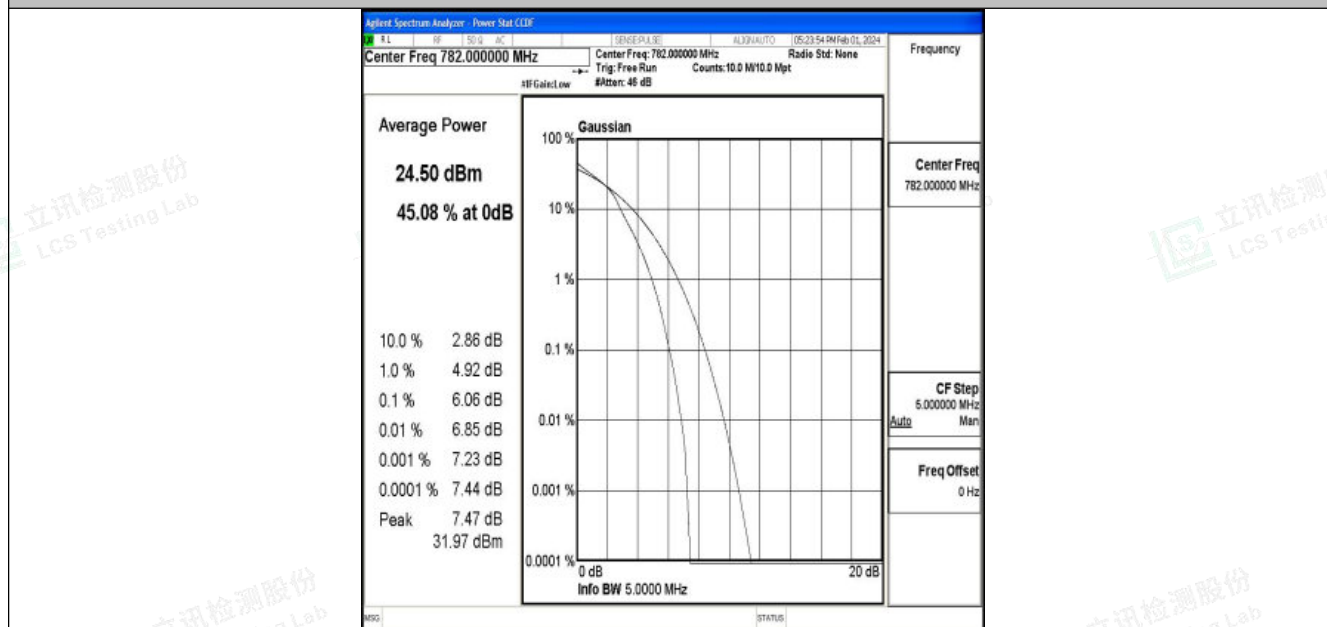






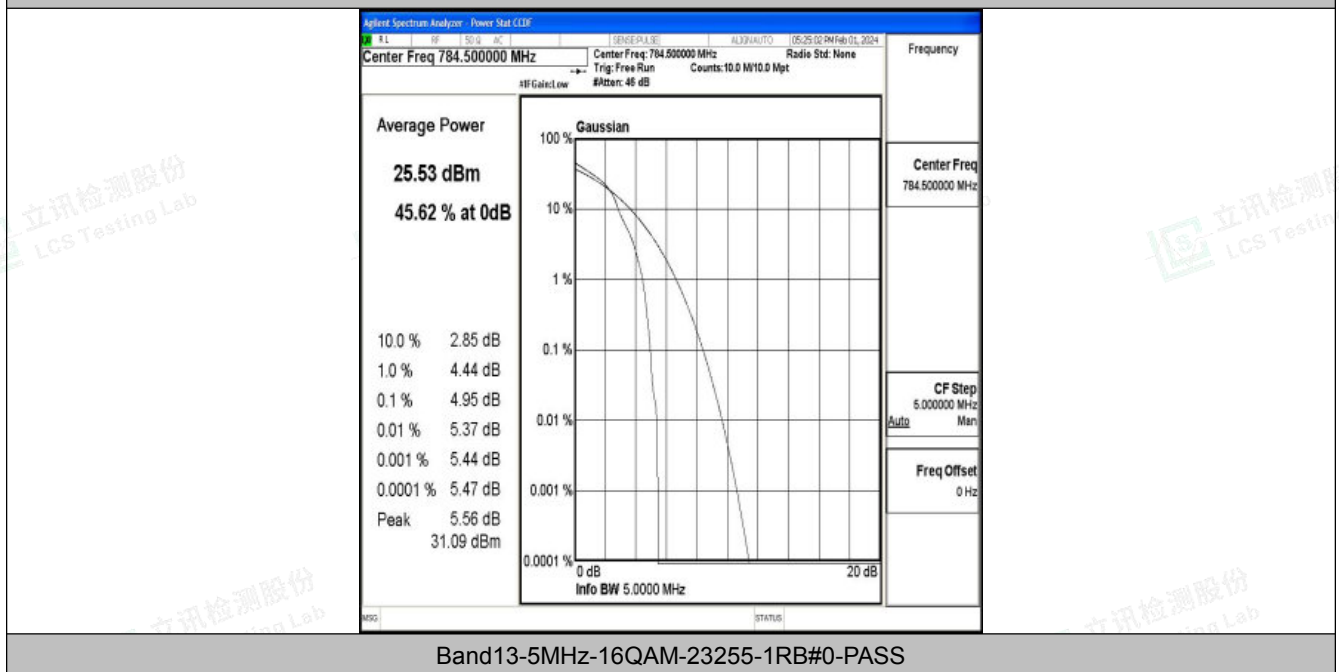
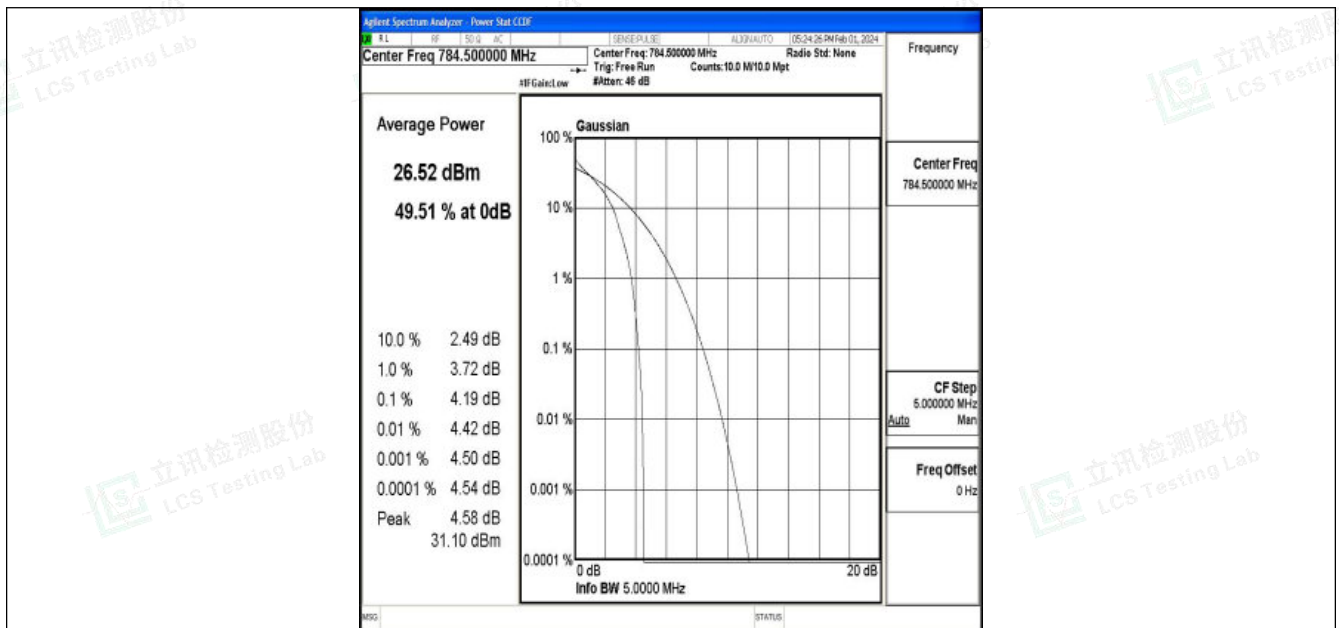


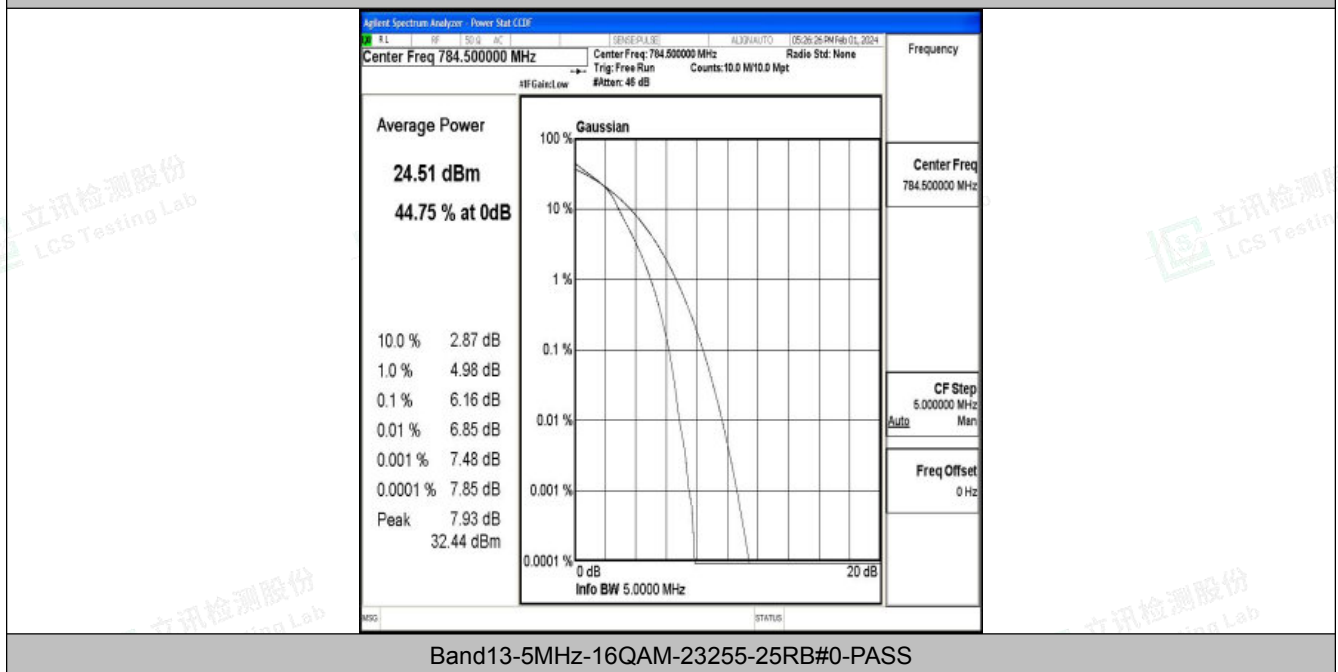
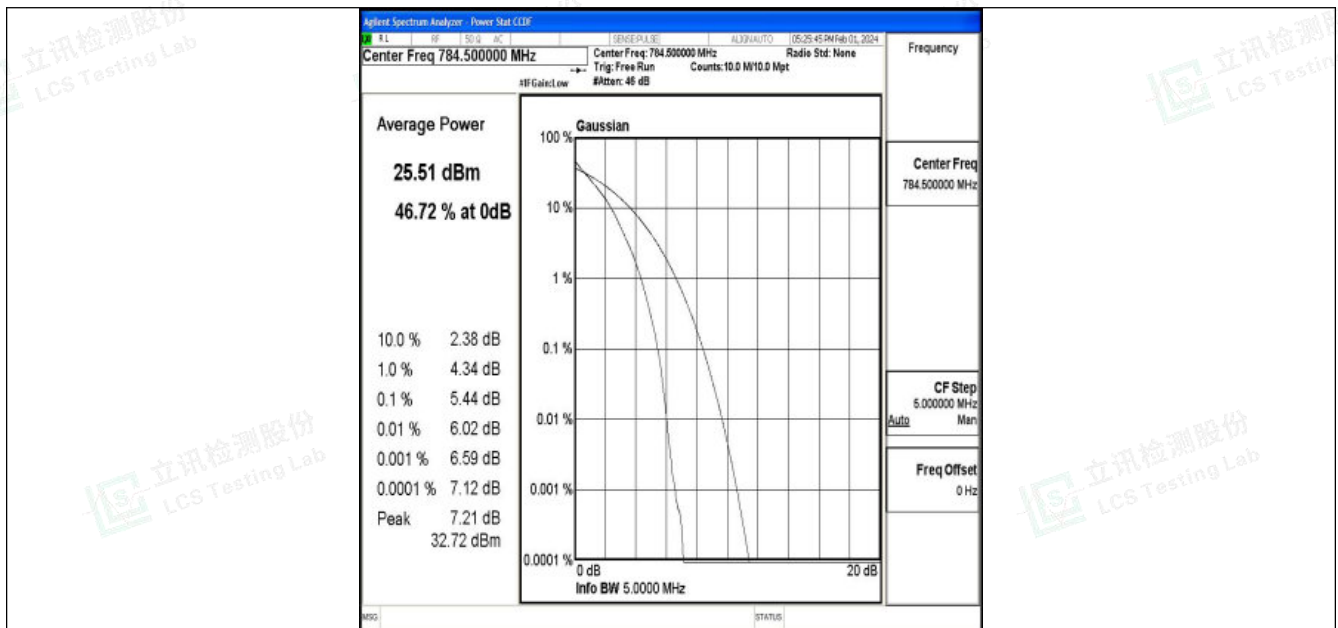
Band13-5MHz-QPSK-23230-25RB#0-PASS



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





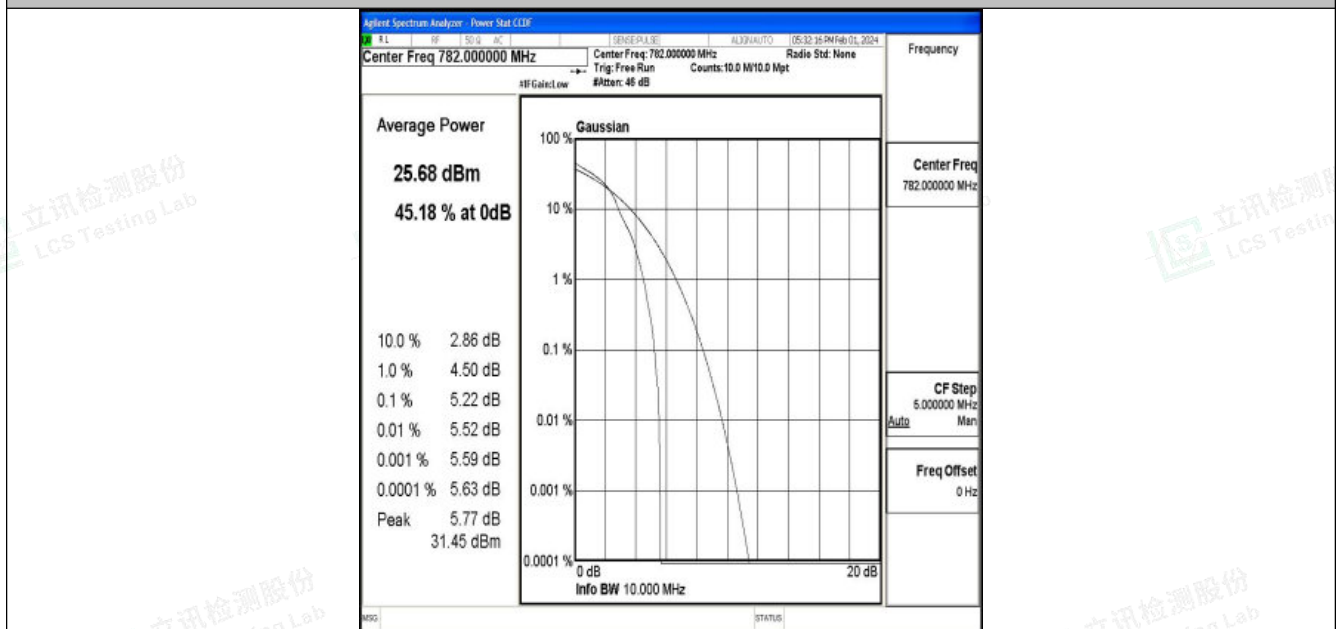
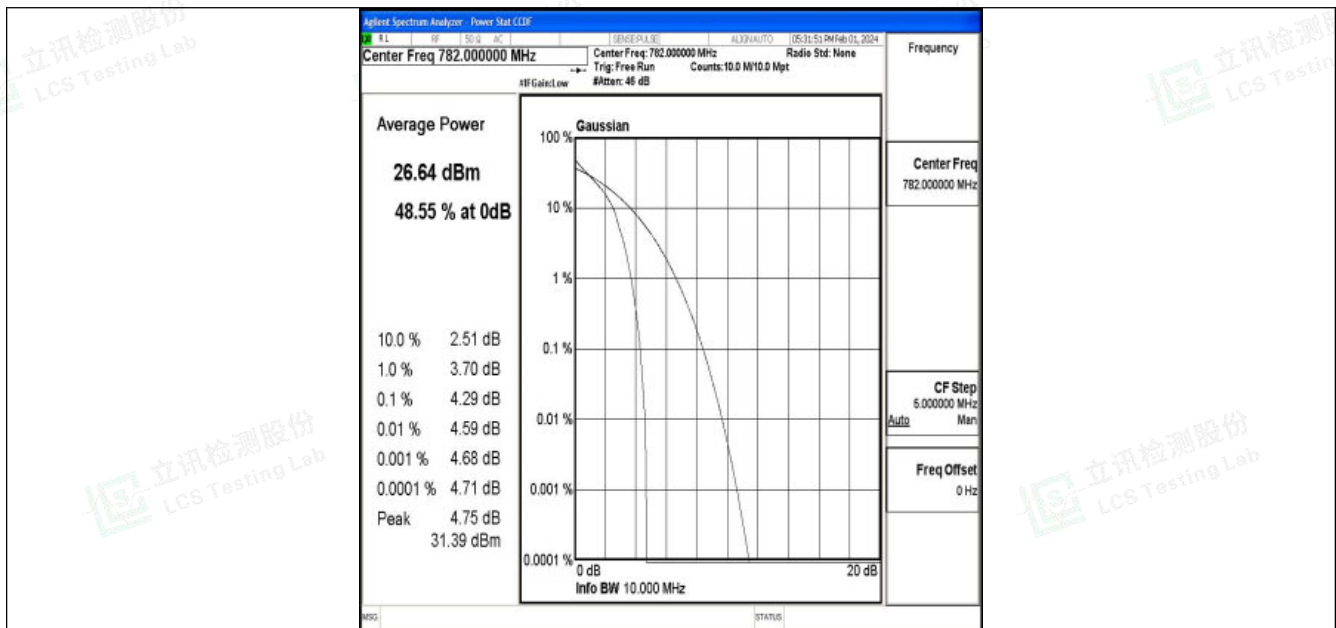


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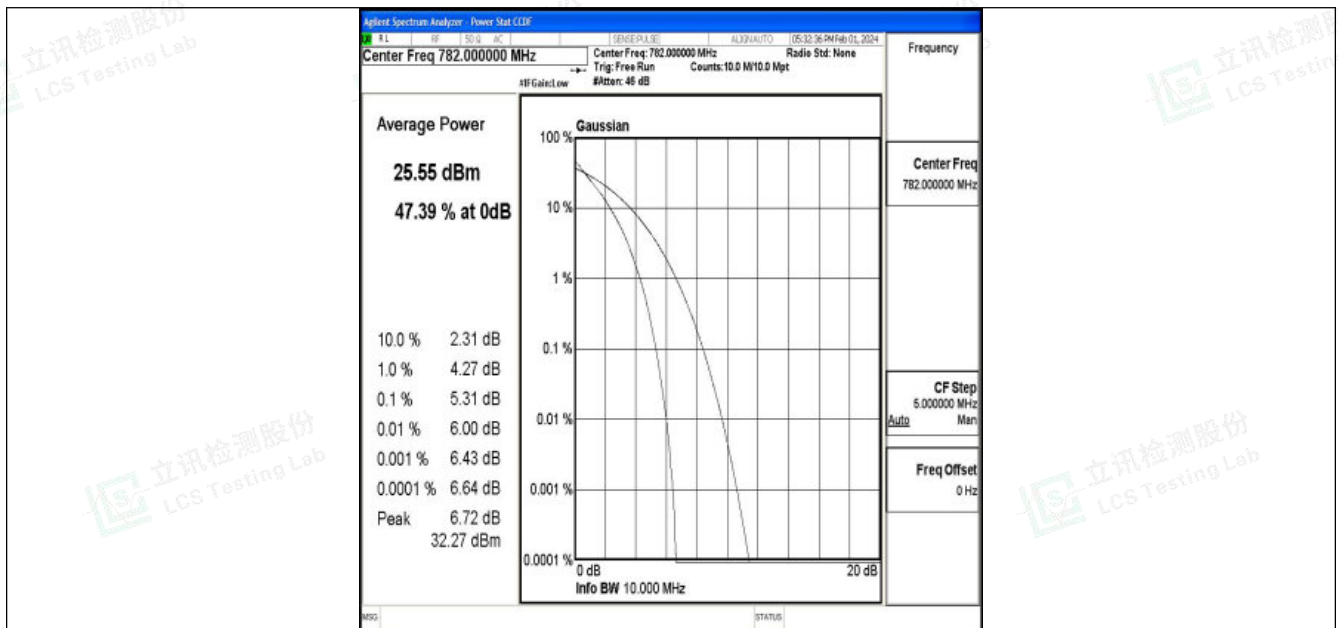


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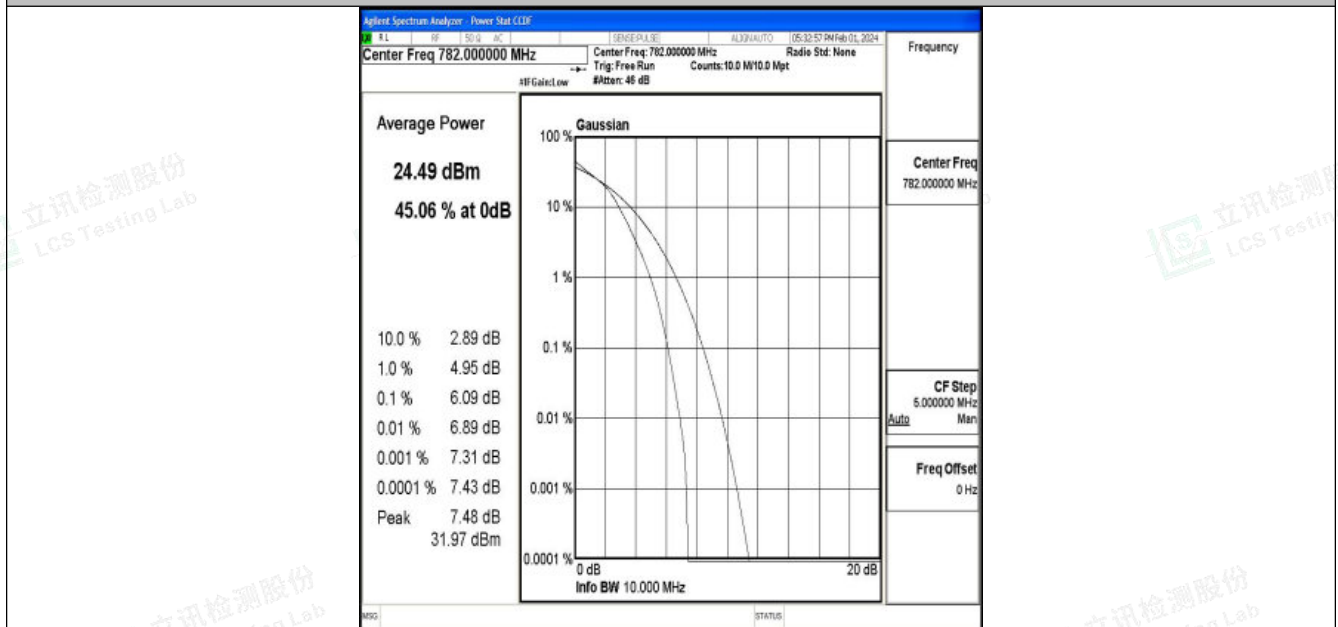
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Band13-10MHz-QPSK-23230-50RB#0-PASS



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





G.3 26dB Bandwidth and Occupied Bandwidth

Test Result

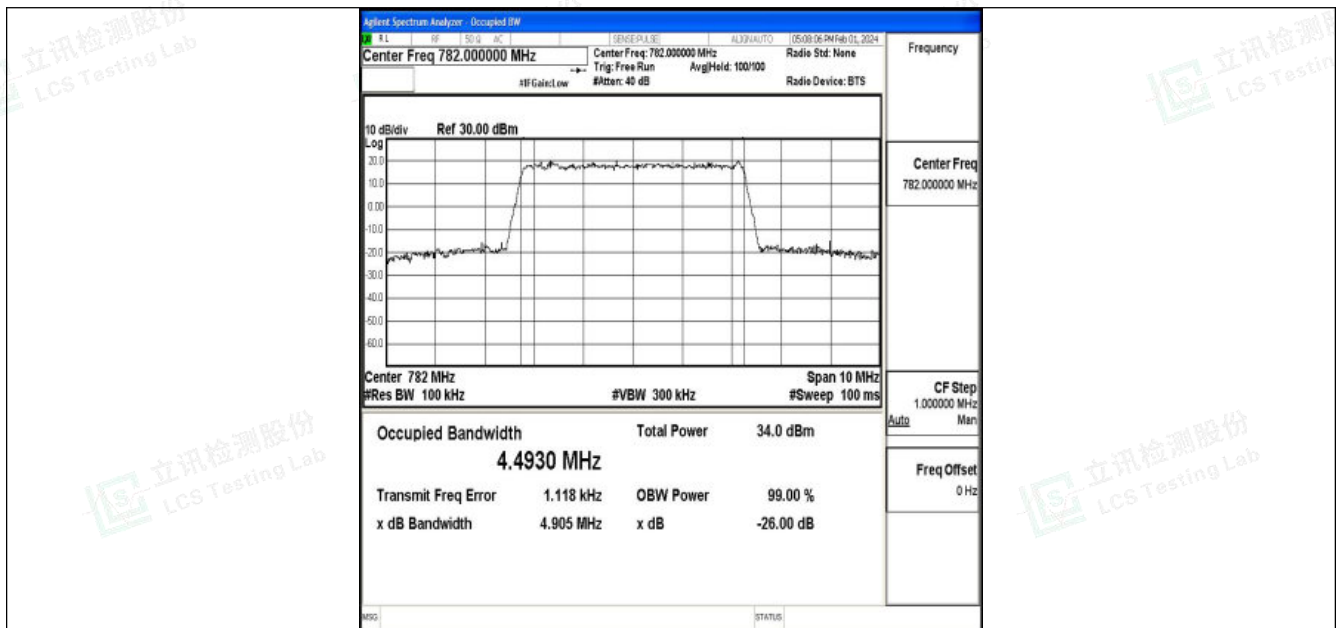
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5048	4.907	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4945	4.895	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4930	4.905	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4994	4.908	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4938	4.901	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5104	4.916	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9621	9.774	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9382	9.708	PASS



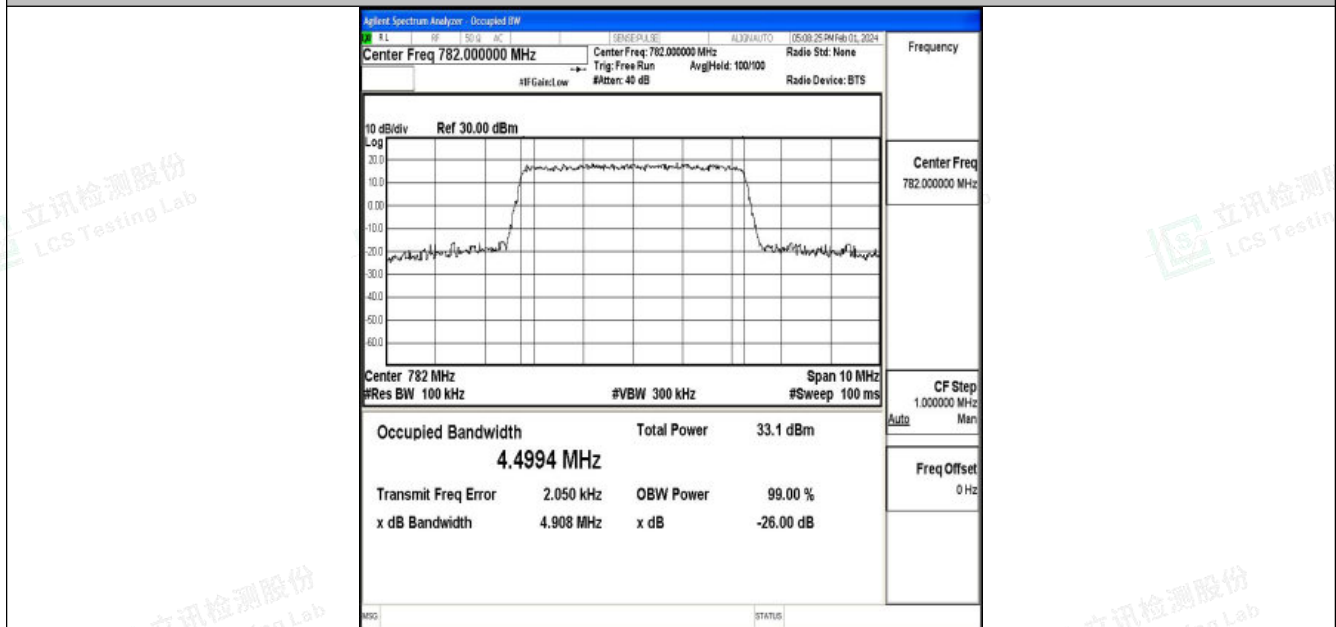


Test Graphs



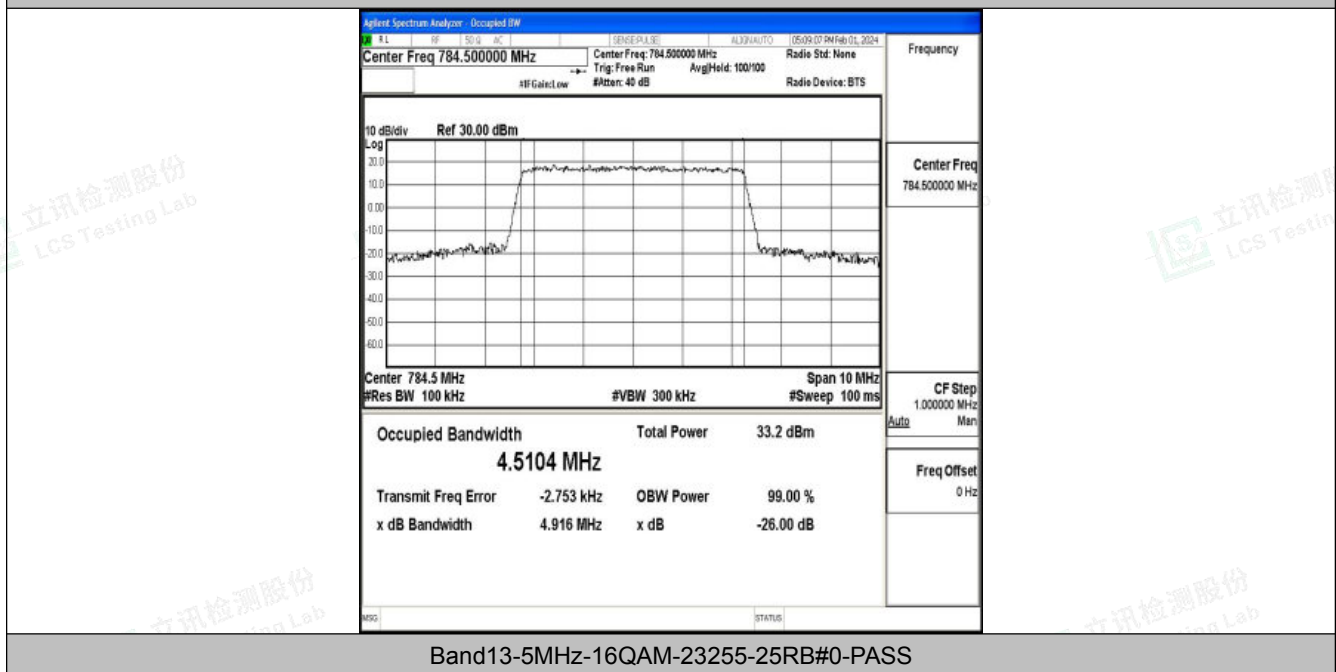
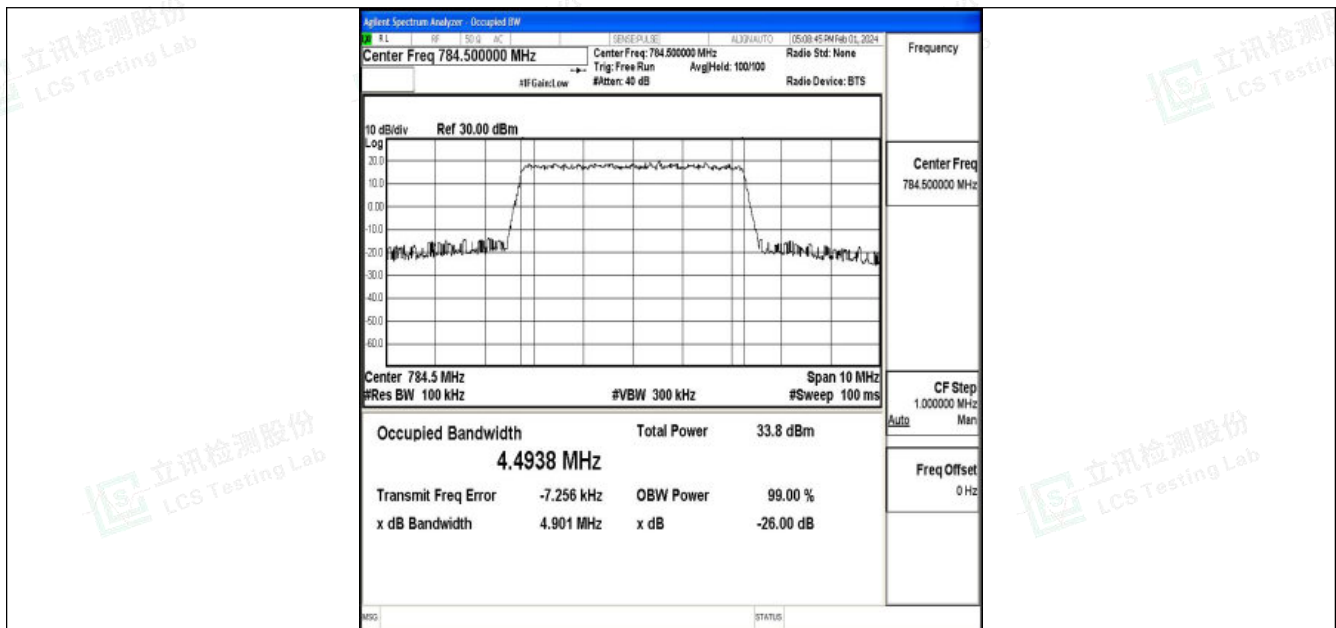


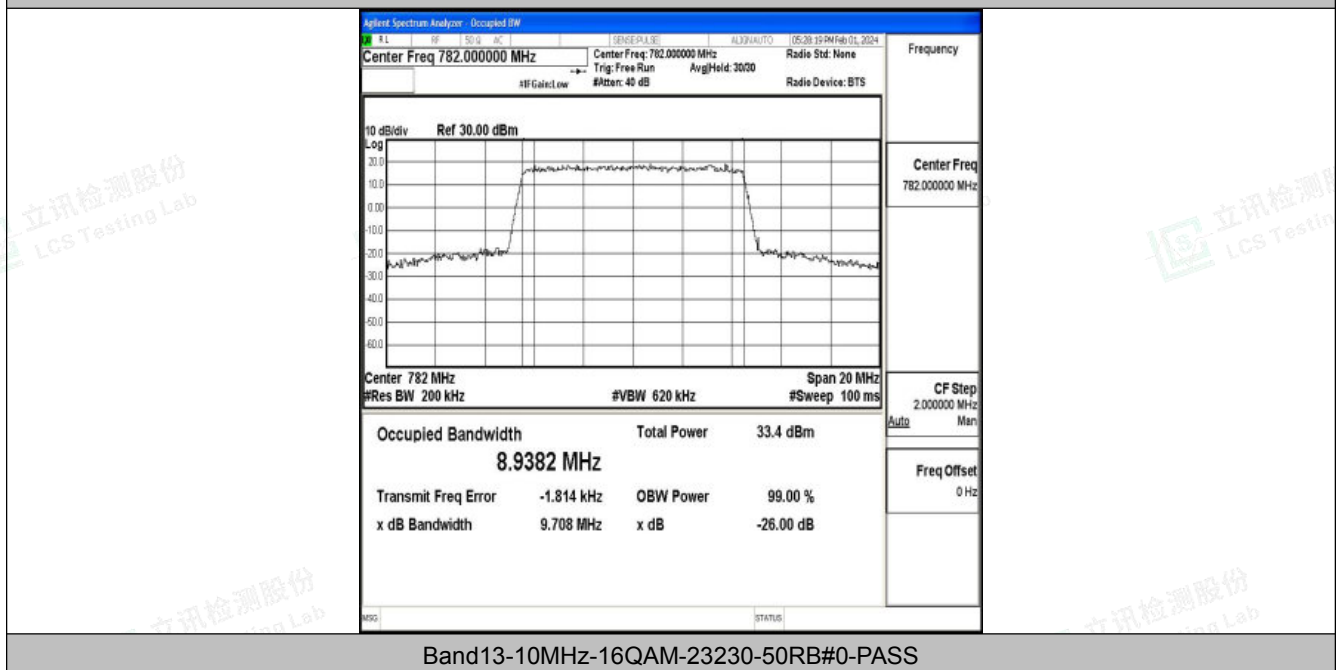
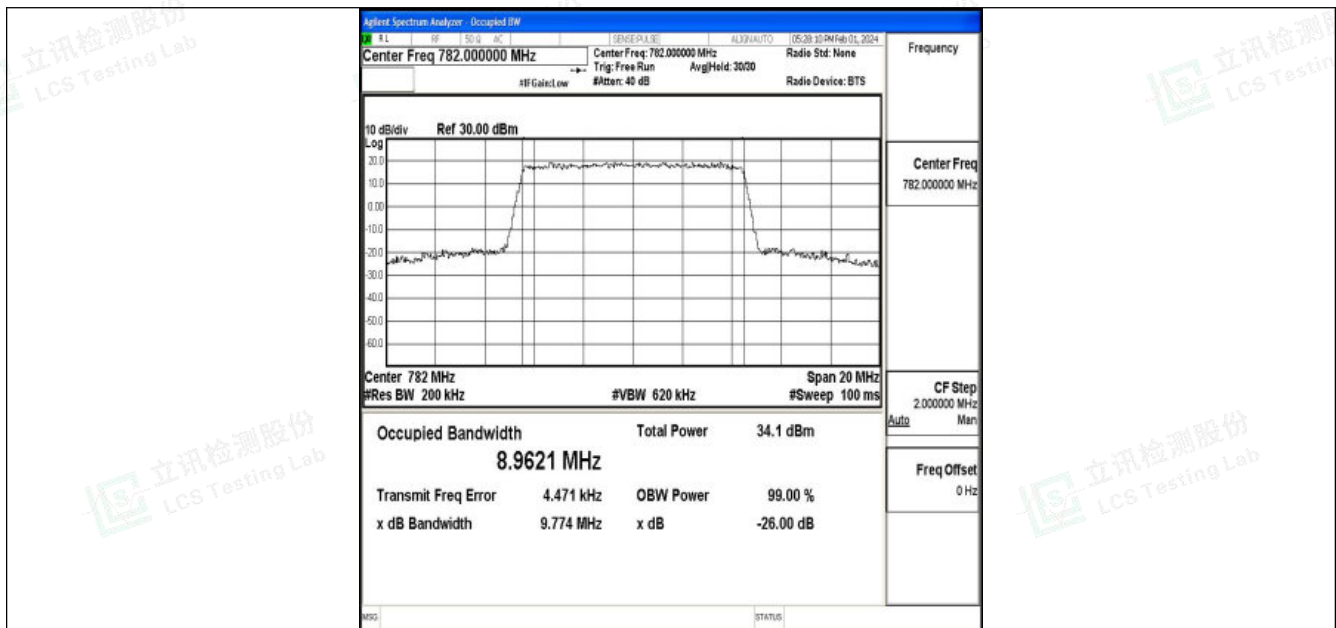
Band13-5MHz-QPSK-23230-25RB#0-PASS



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







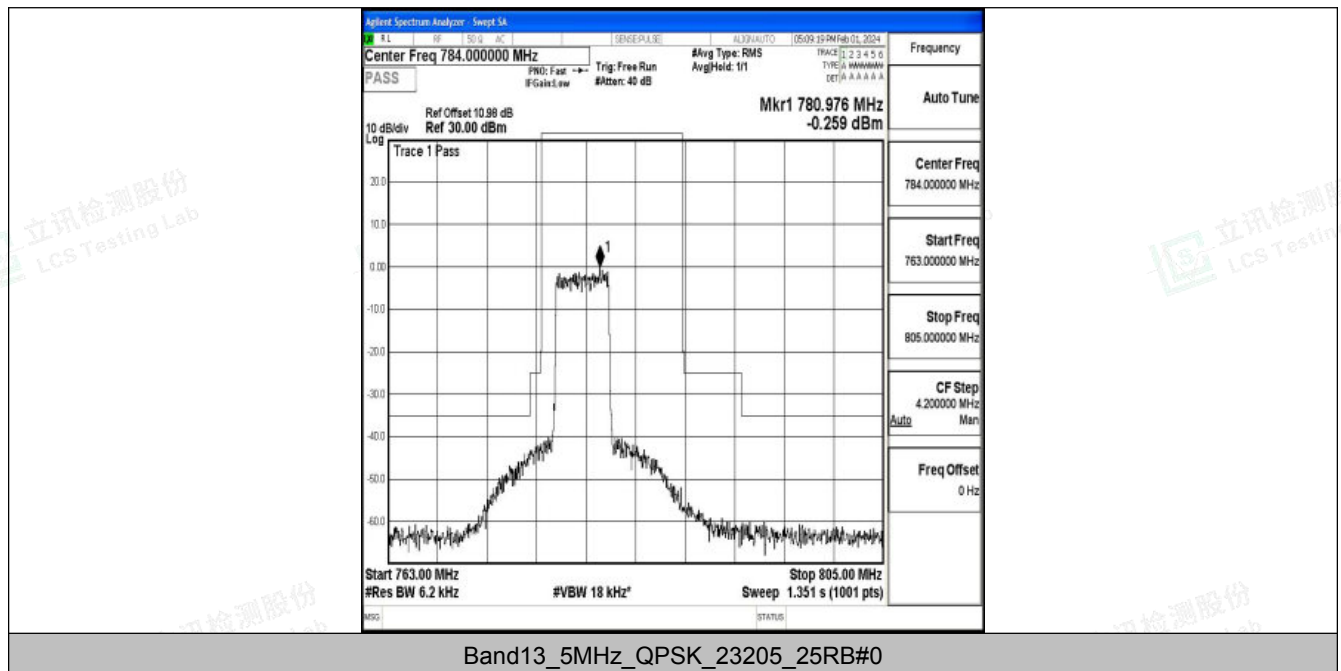


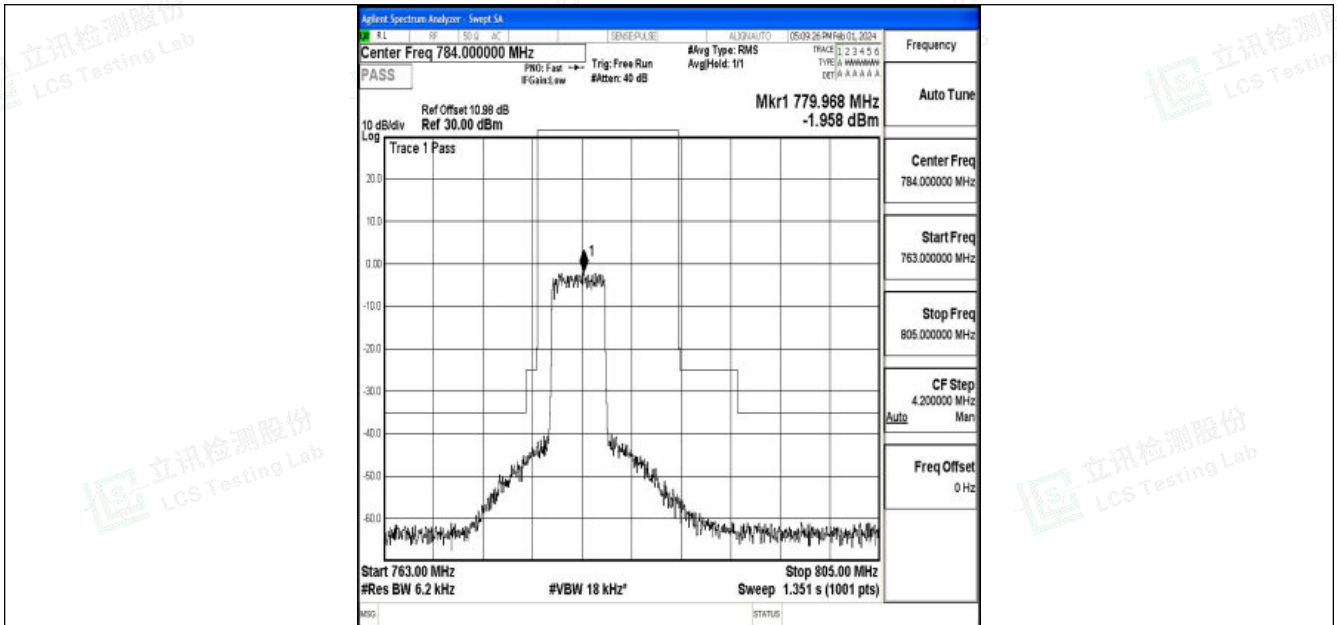
G.4 Band Edge

Test Result

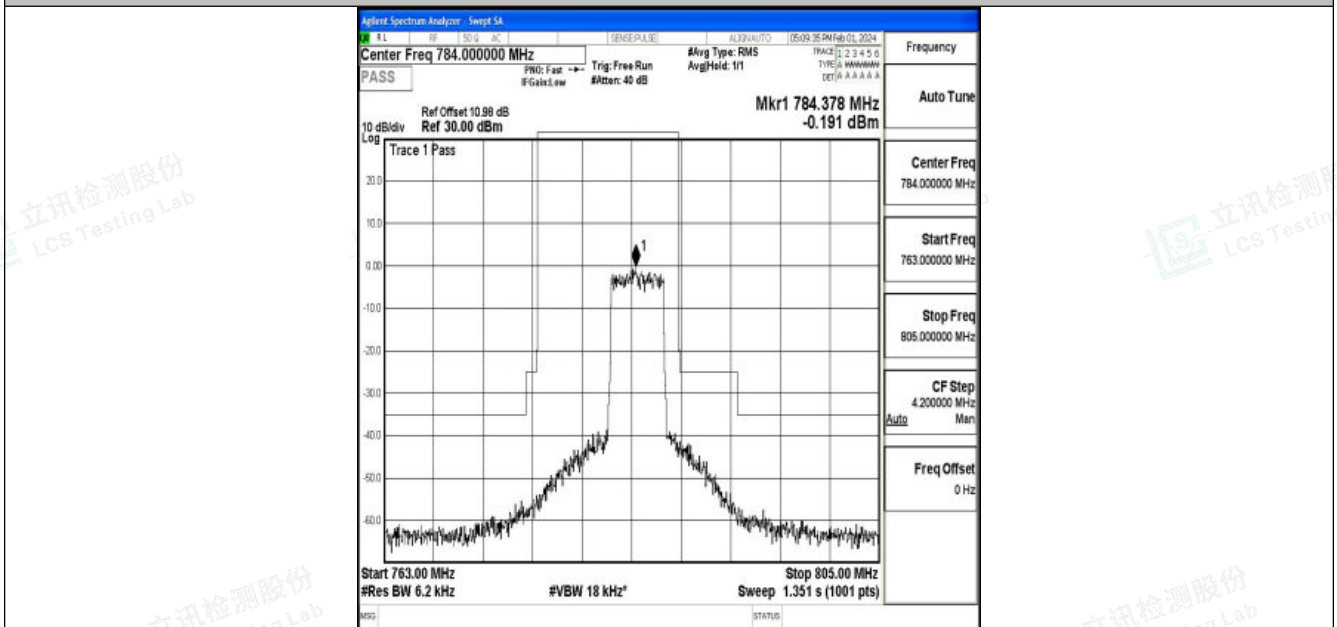
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.59	-43.98	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.89	-45.11	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.12	-41.42	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.12	-41.80	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.42	-46.90	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.93	-46.69	PASS

Test Graphs



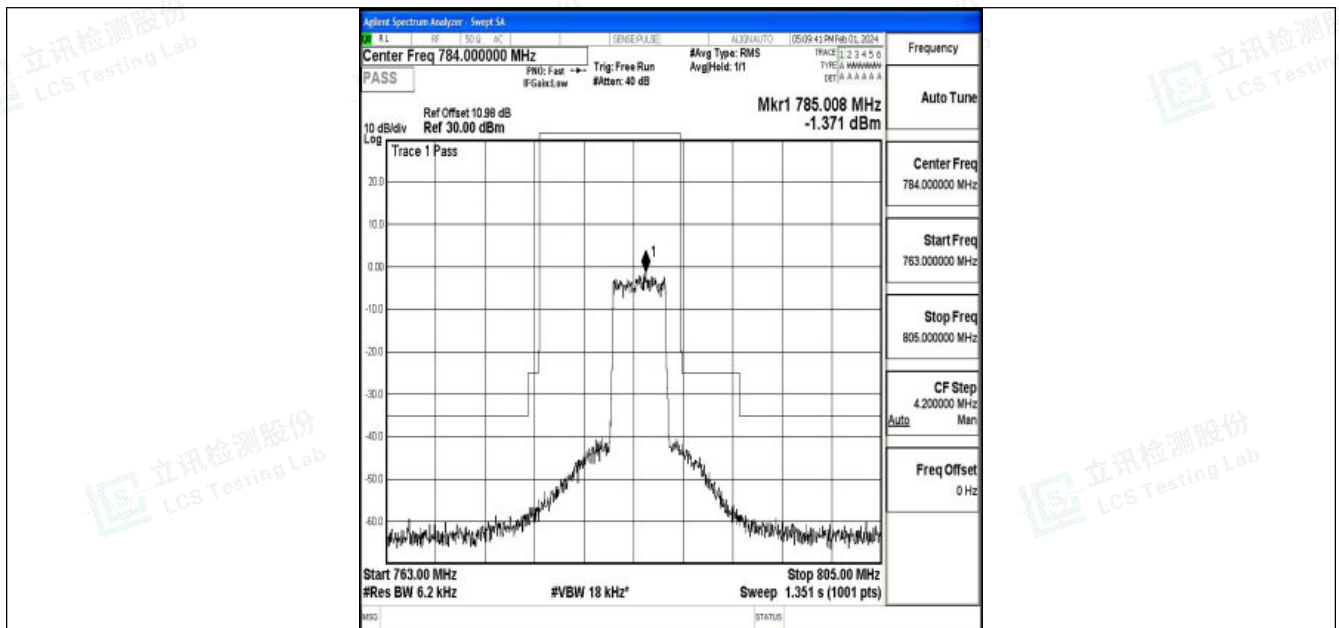


Band13_5MHz_16QAM_23205_25RB#0

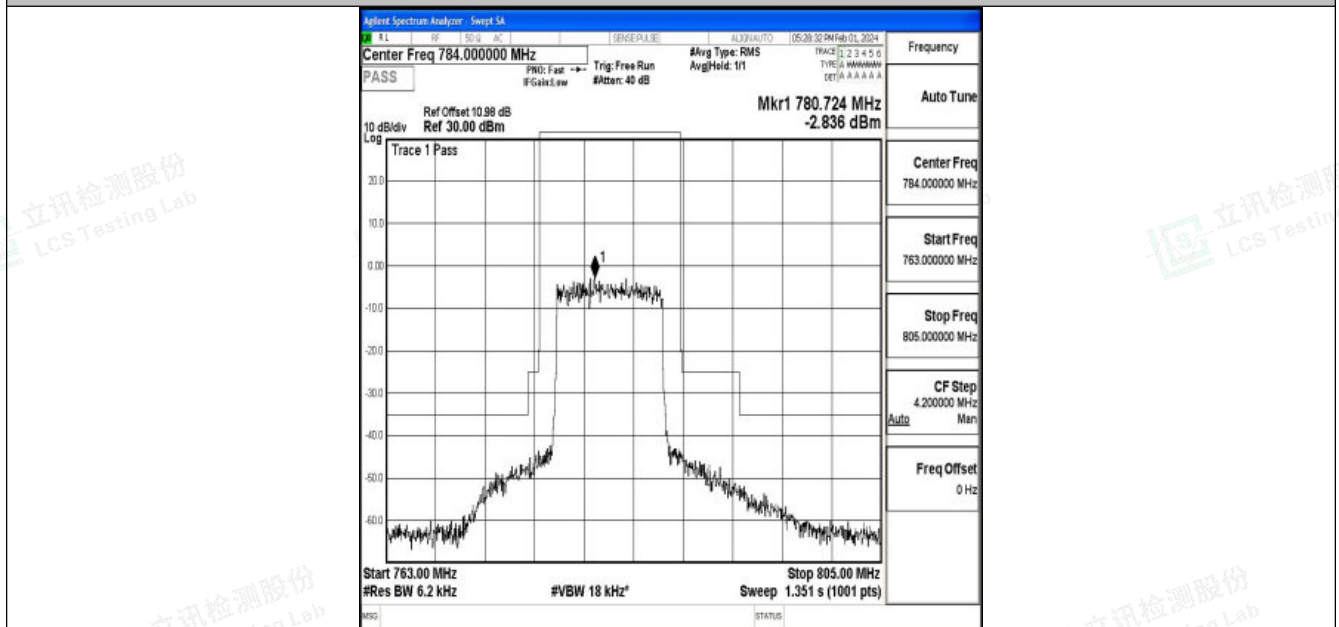


Band13_5MHz_QPSK_23255_25RB#0



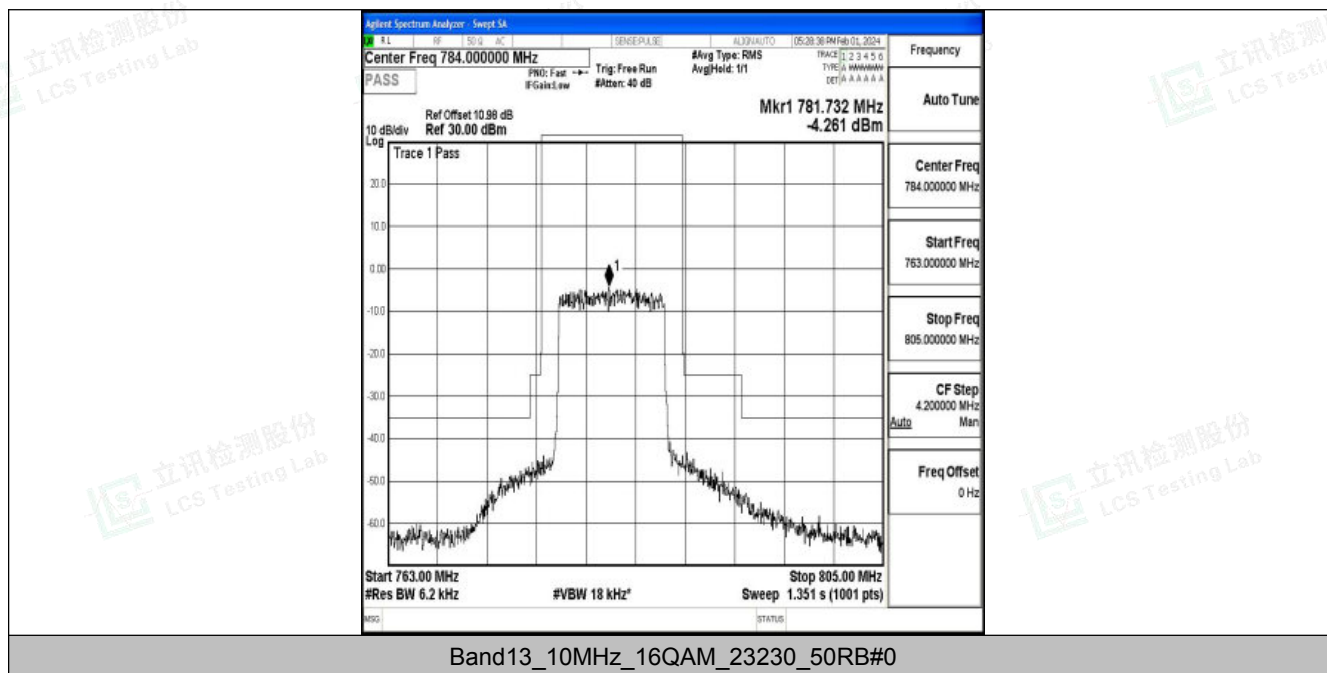


Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0







G.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	-52.85	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-47.79	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-58.25	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-20.53	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-39.71	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-52.45	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-49.46	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-58.11	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-21.29	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-39.97	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-53.11	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-47.60	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-57.78	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-20.62	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-40.23	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-51.83	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-48.34	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-58.03	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-21.11	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-40.22	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-54.08	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-47.52	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-58.05	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-21.00	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-39.18	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-53.10	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-48.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-58.13	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-20.51	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-39.92	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-53.28	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-50.59	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-58.02	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-22.38	PASS



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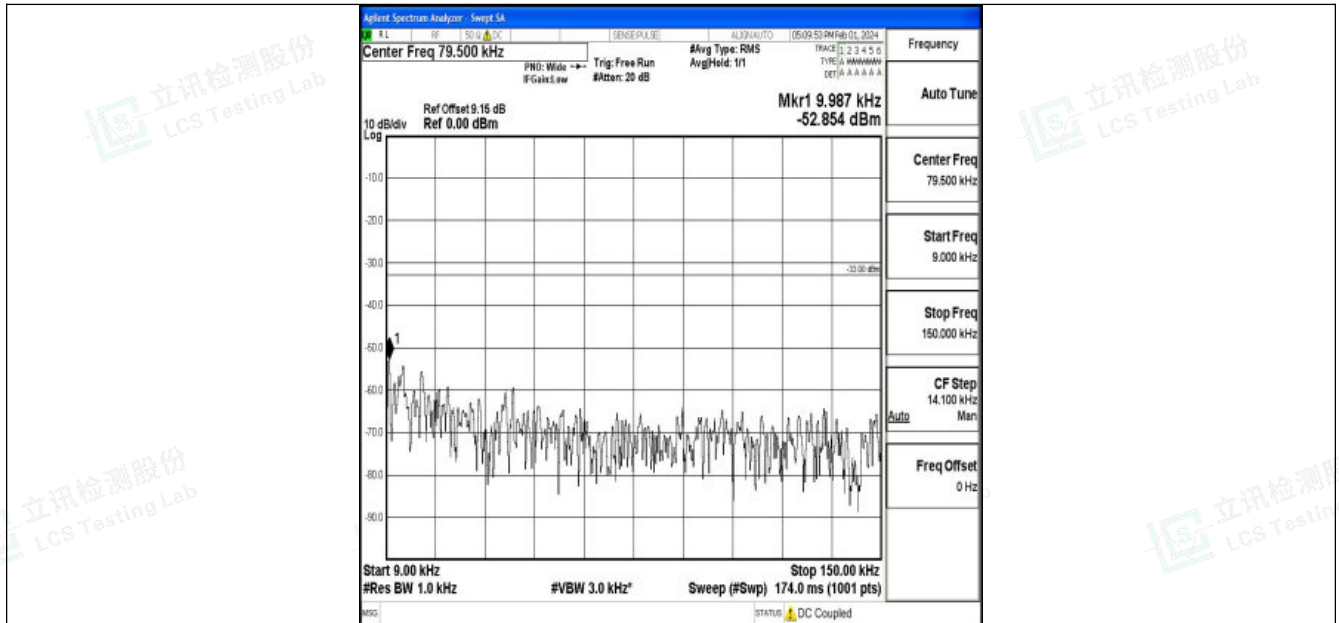
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Scan code to check authenticity

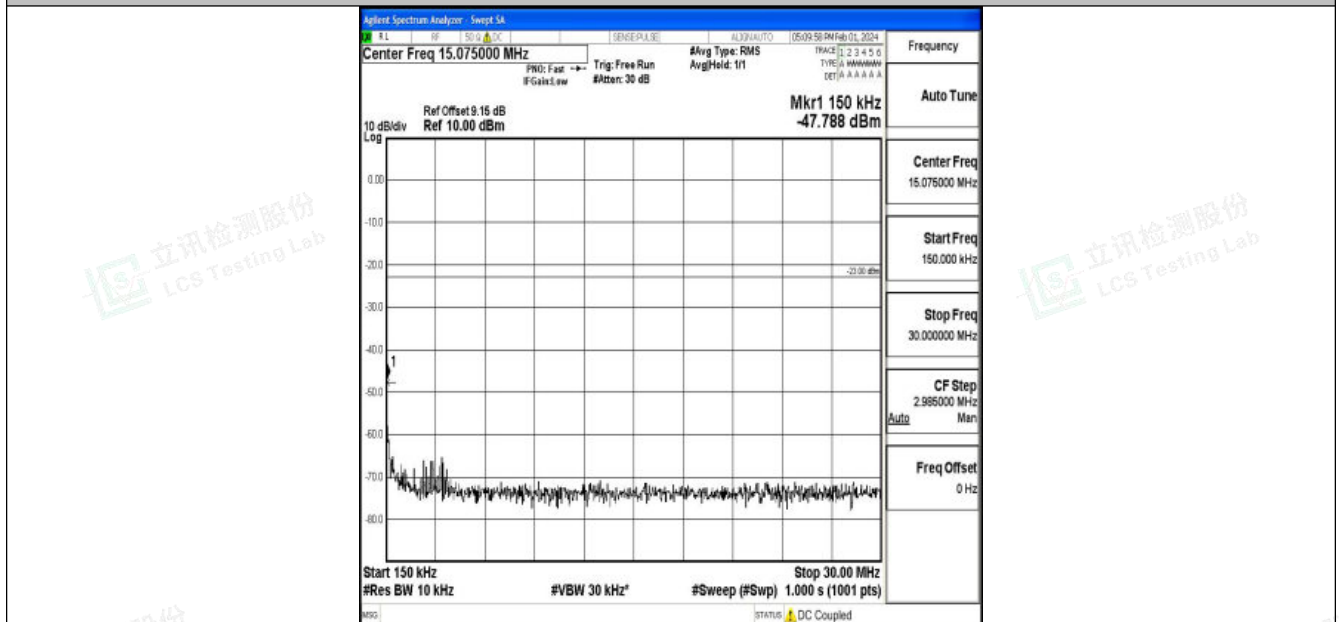


Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-40.31	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-51.41	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-47.95	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-57.69	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-22.00	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-40.24	PASS

Test Graphs

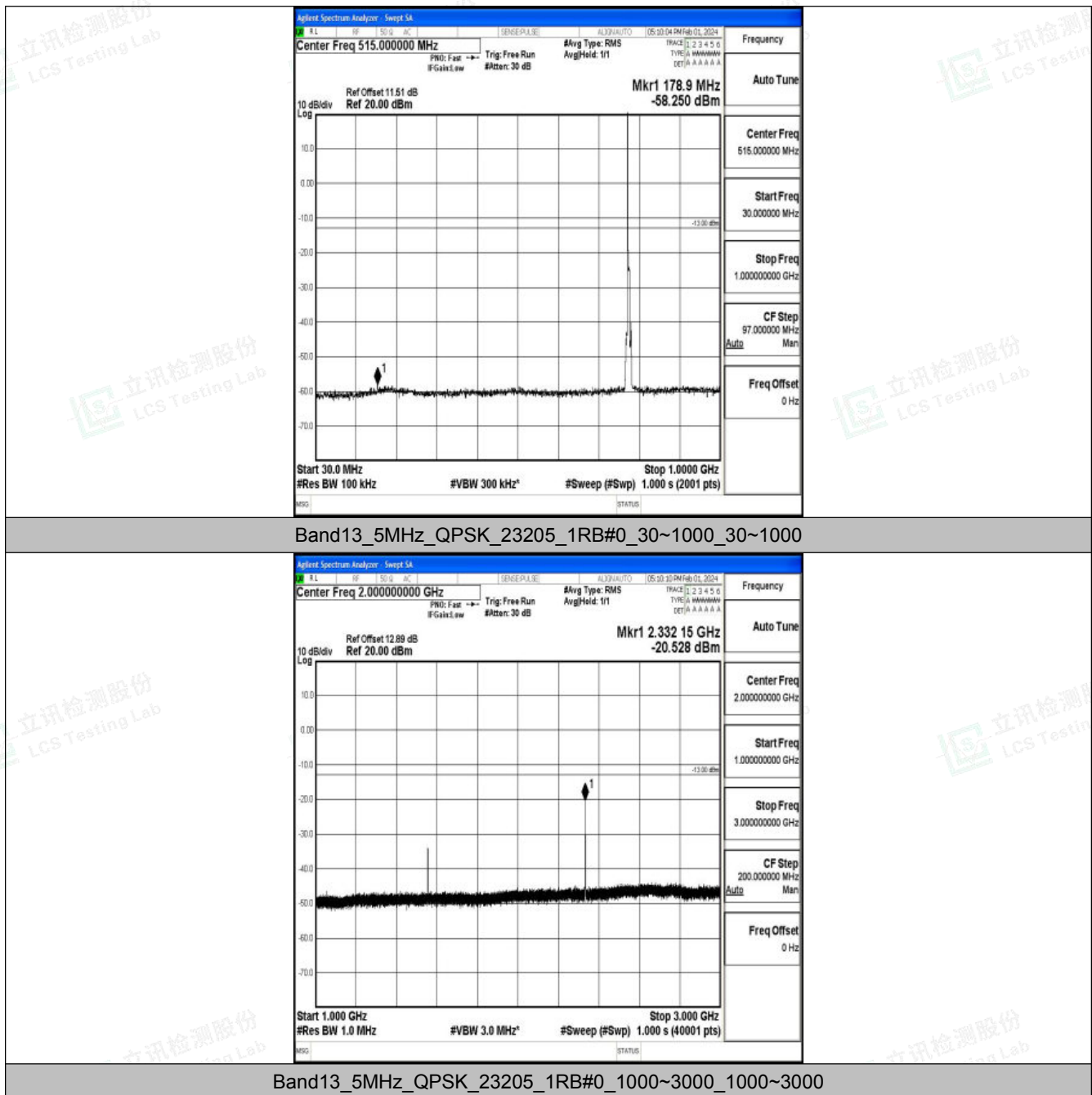


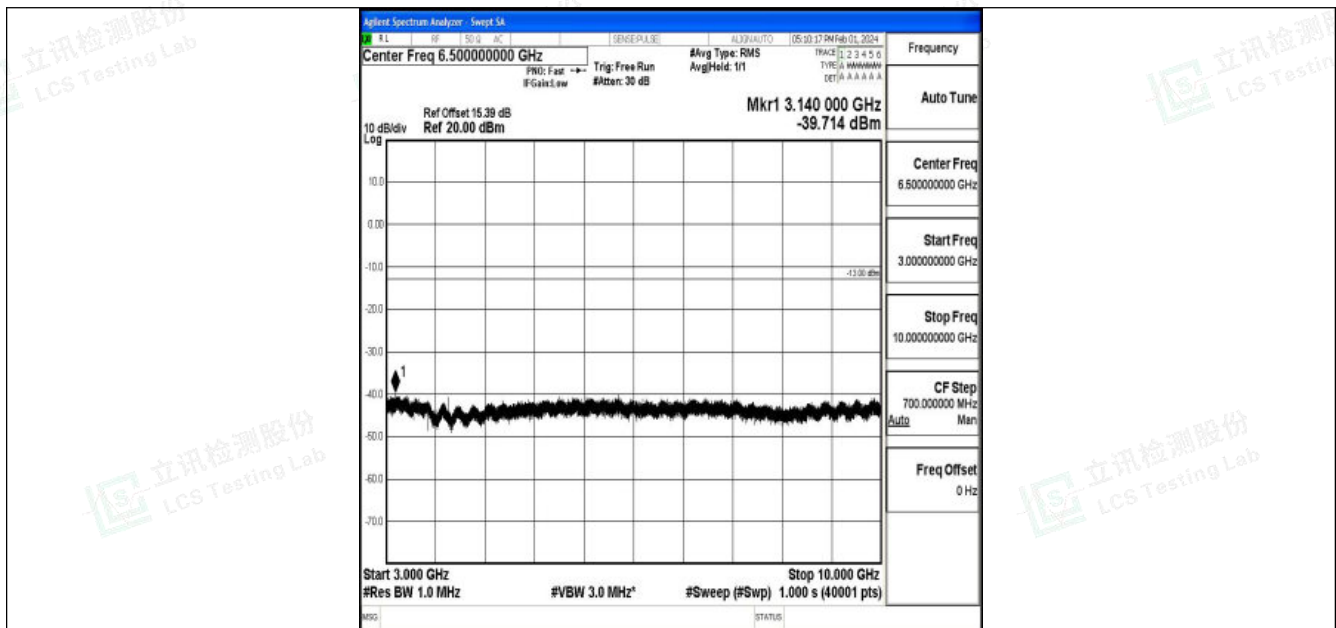
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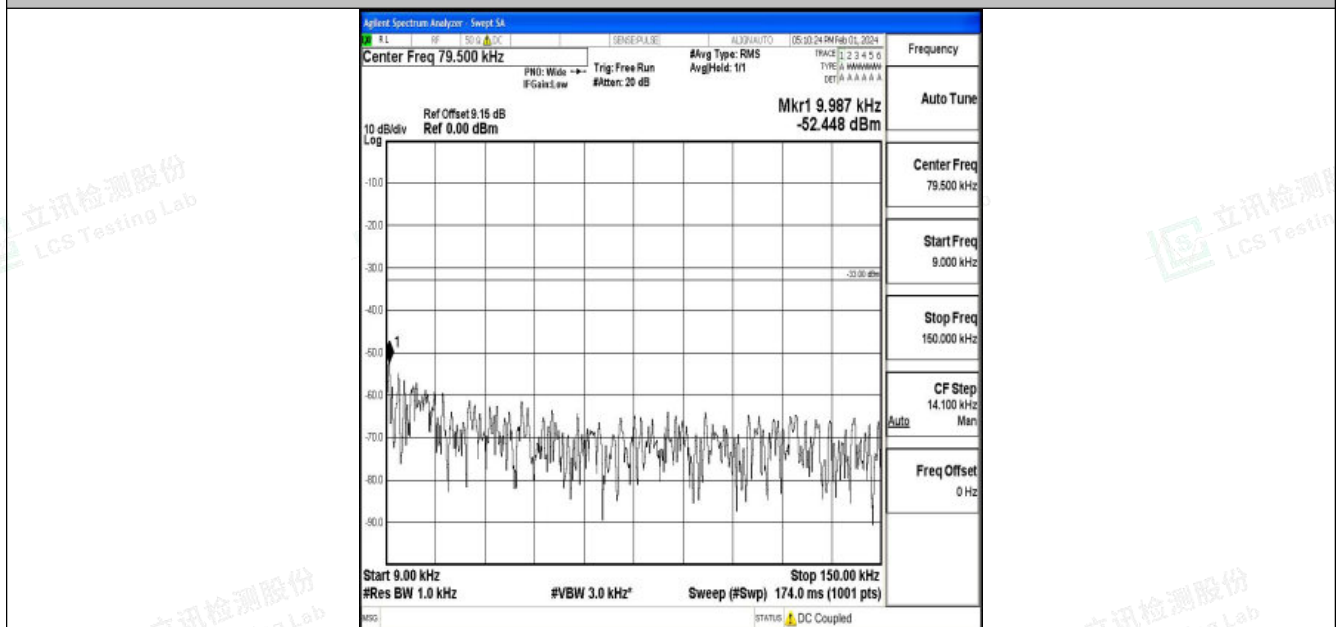
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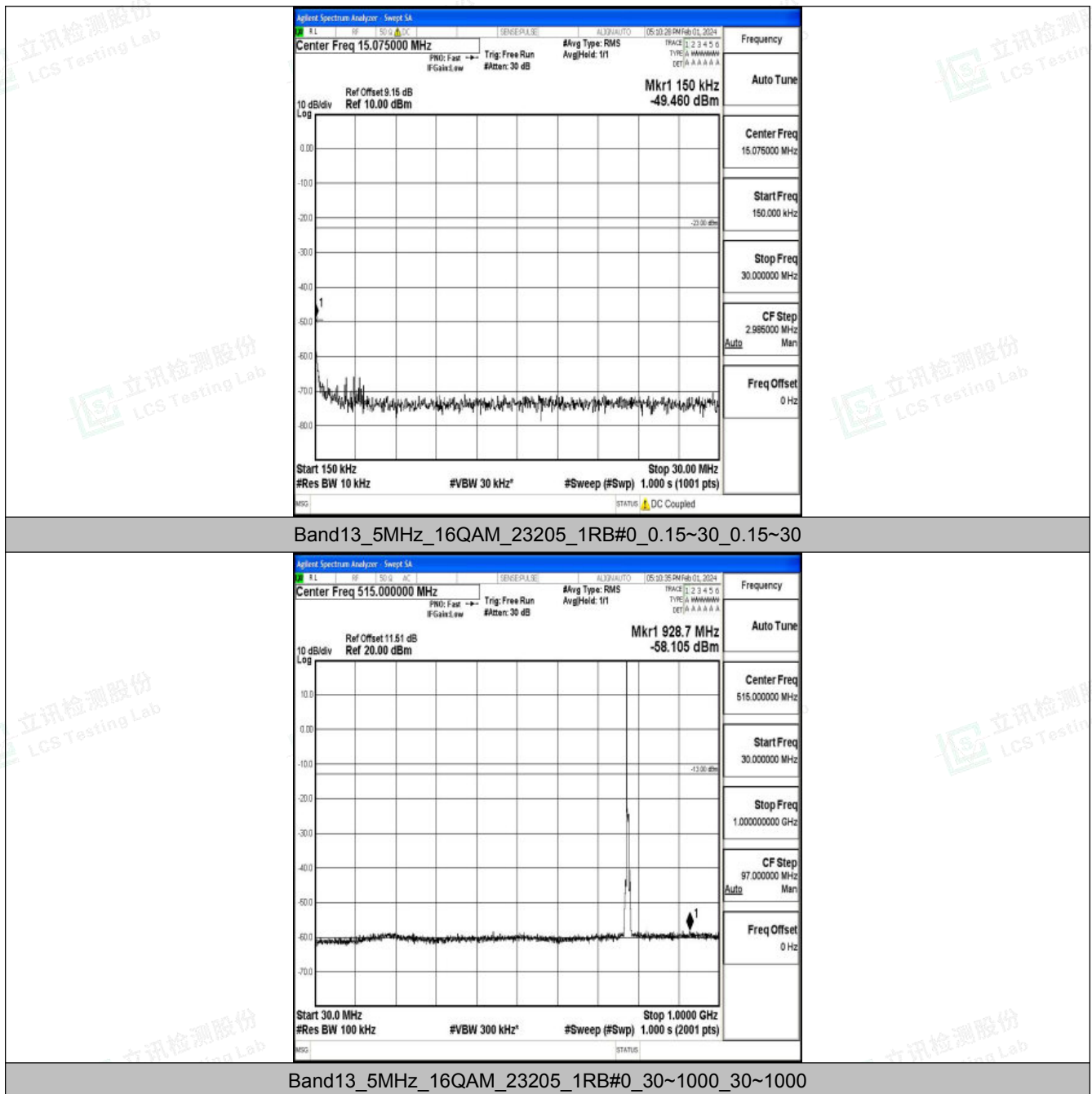


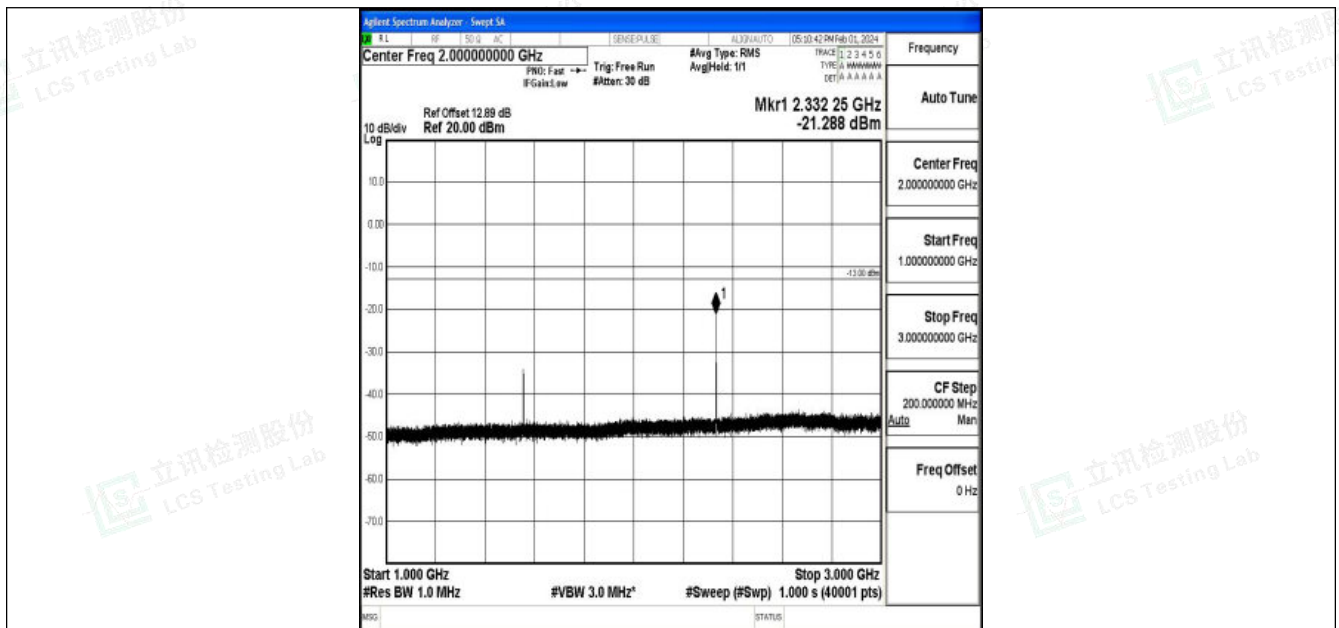
Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000



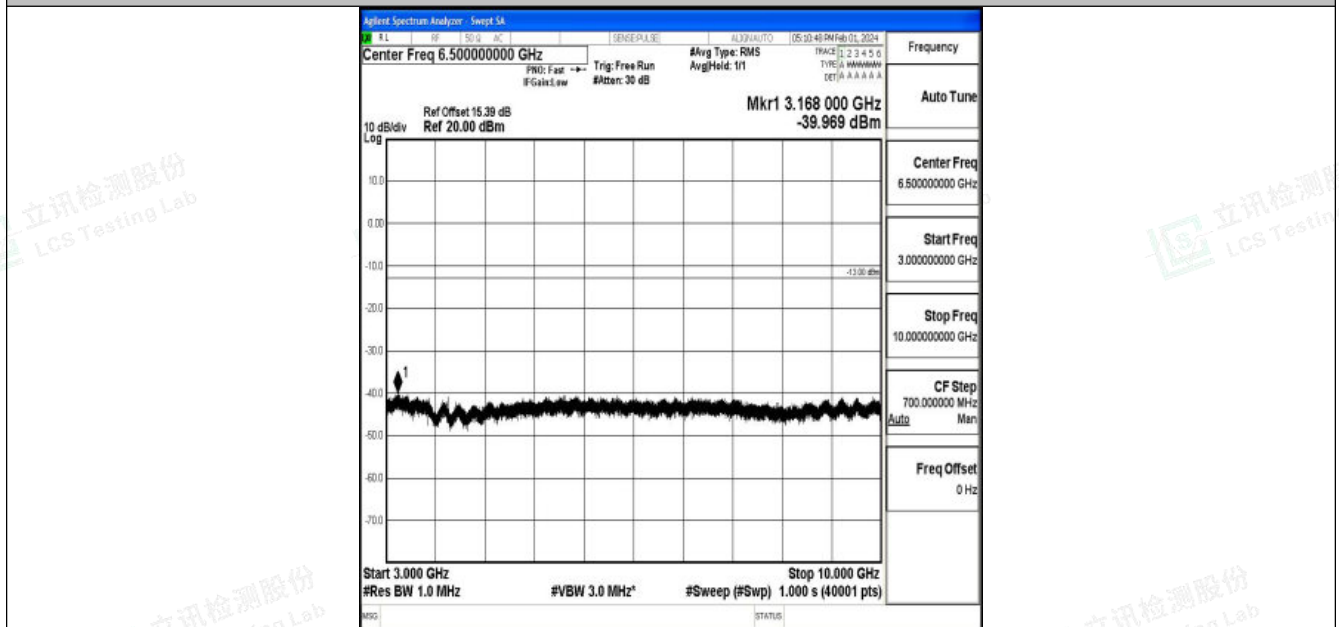
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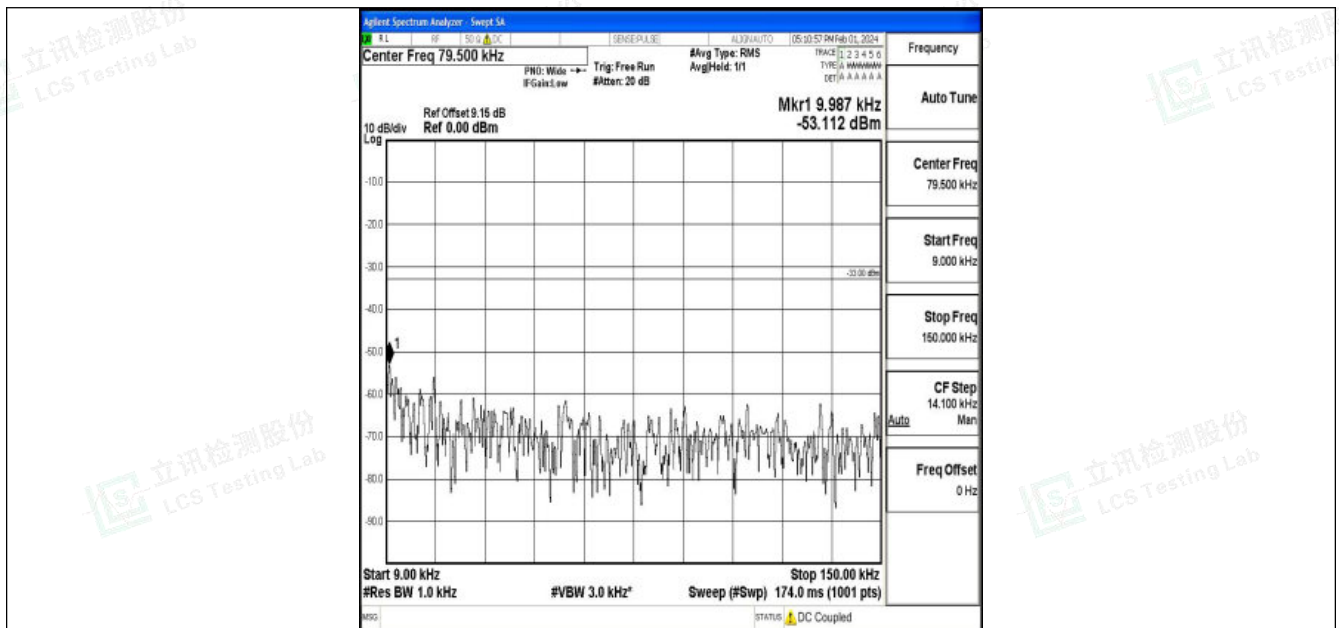


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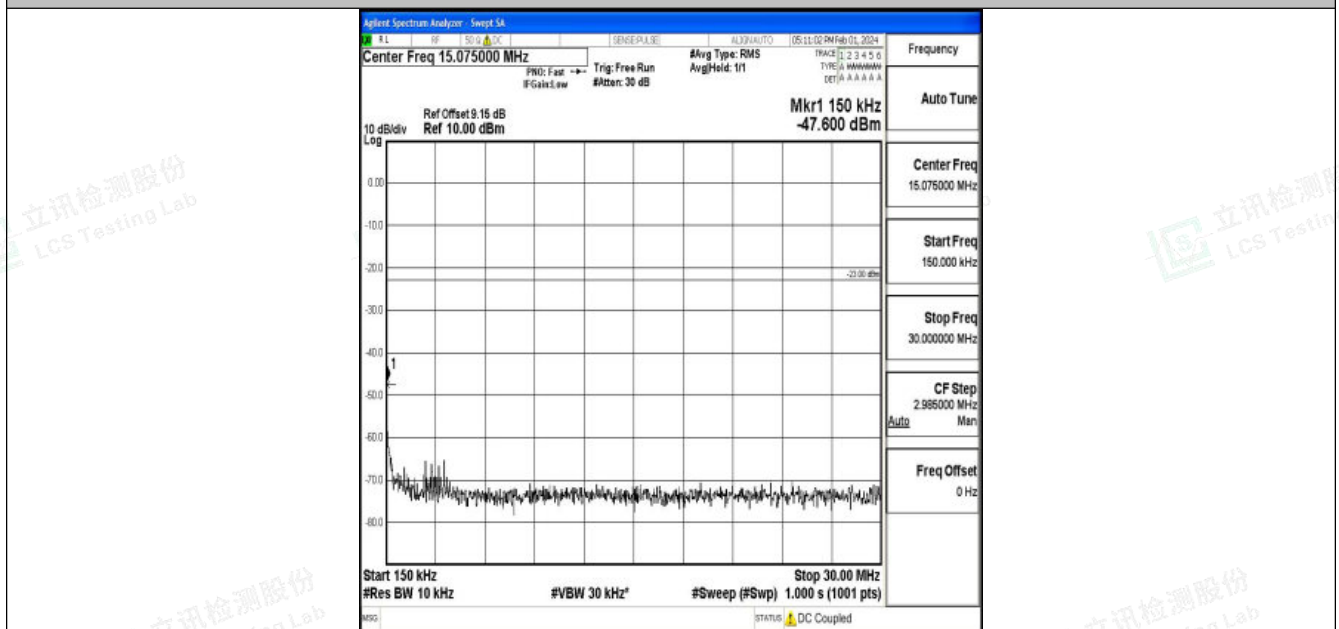


Band13_5MHz_16QAM_23205_1RB#0_3000~10000_3000~10000





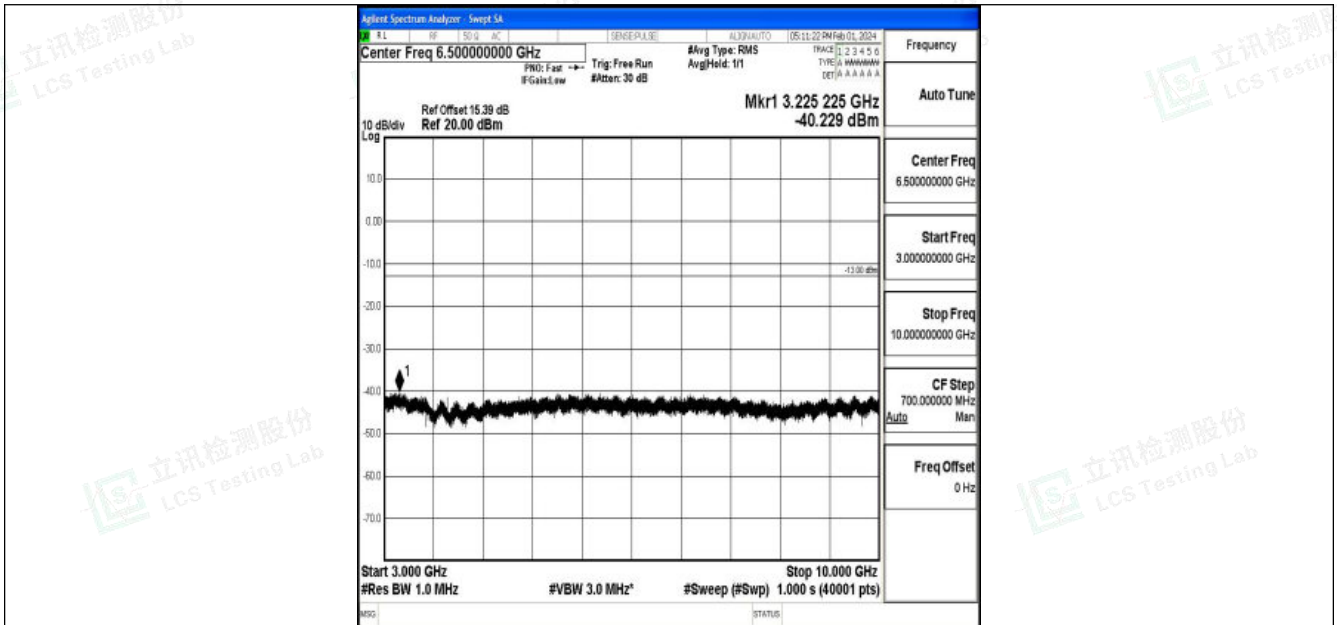
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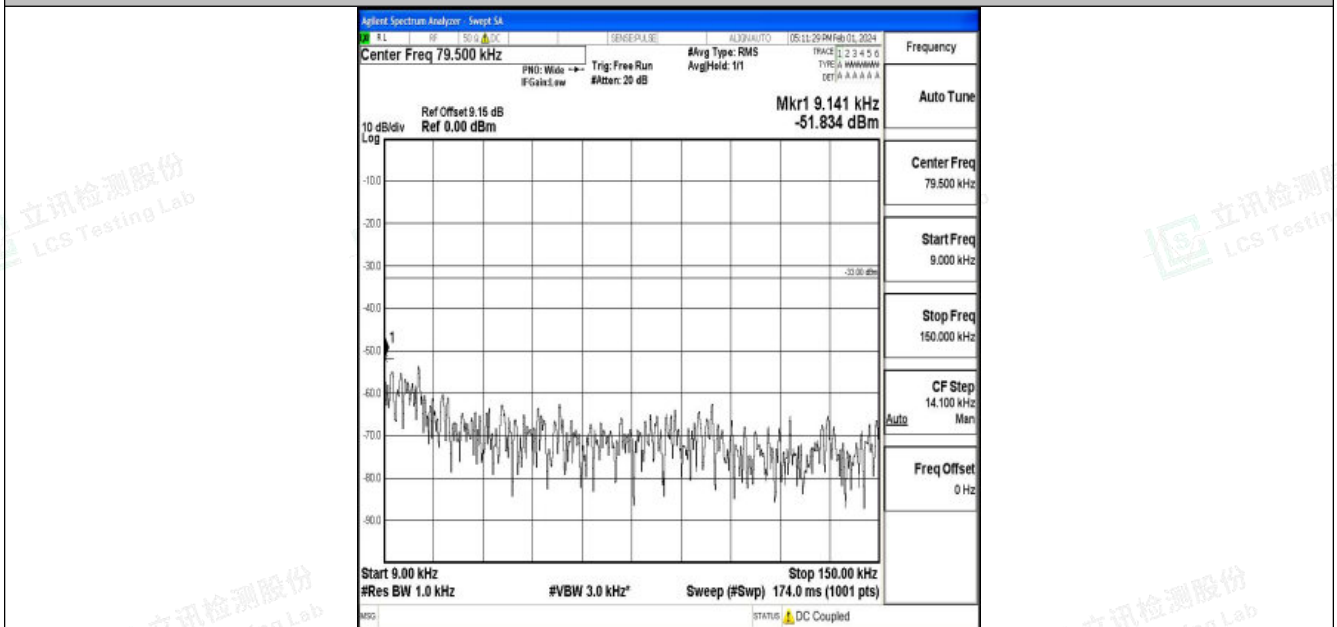
Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30







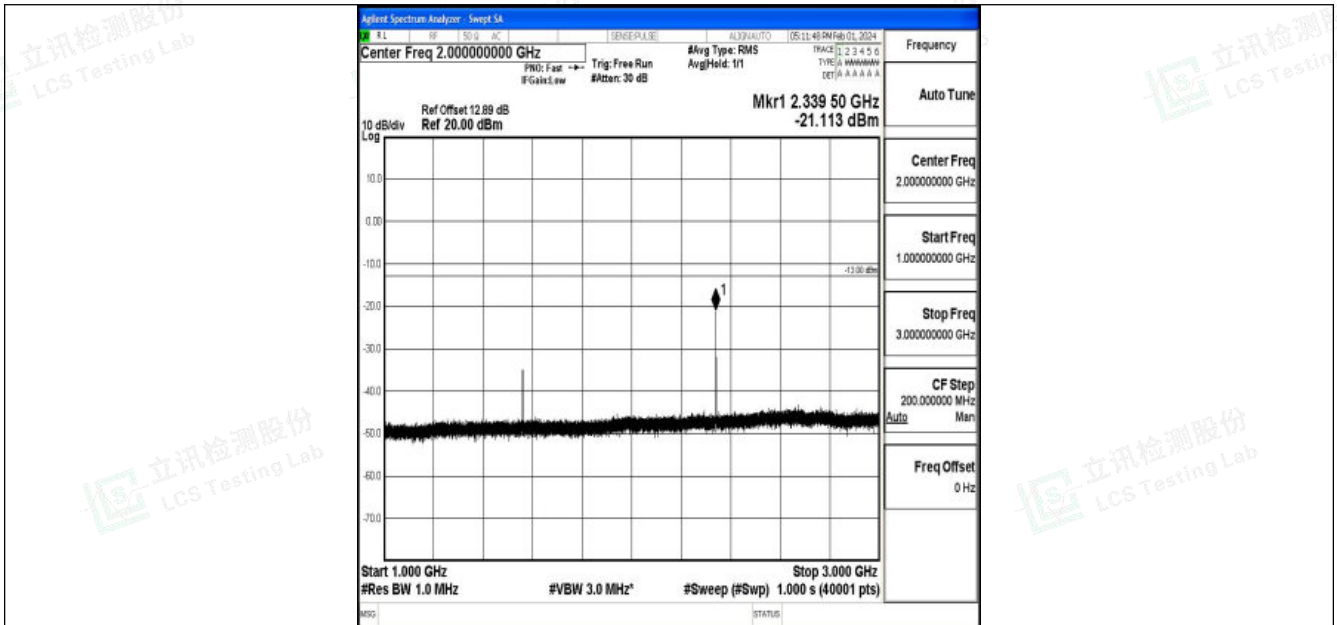
Band13_5MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



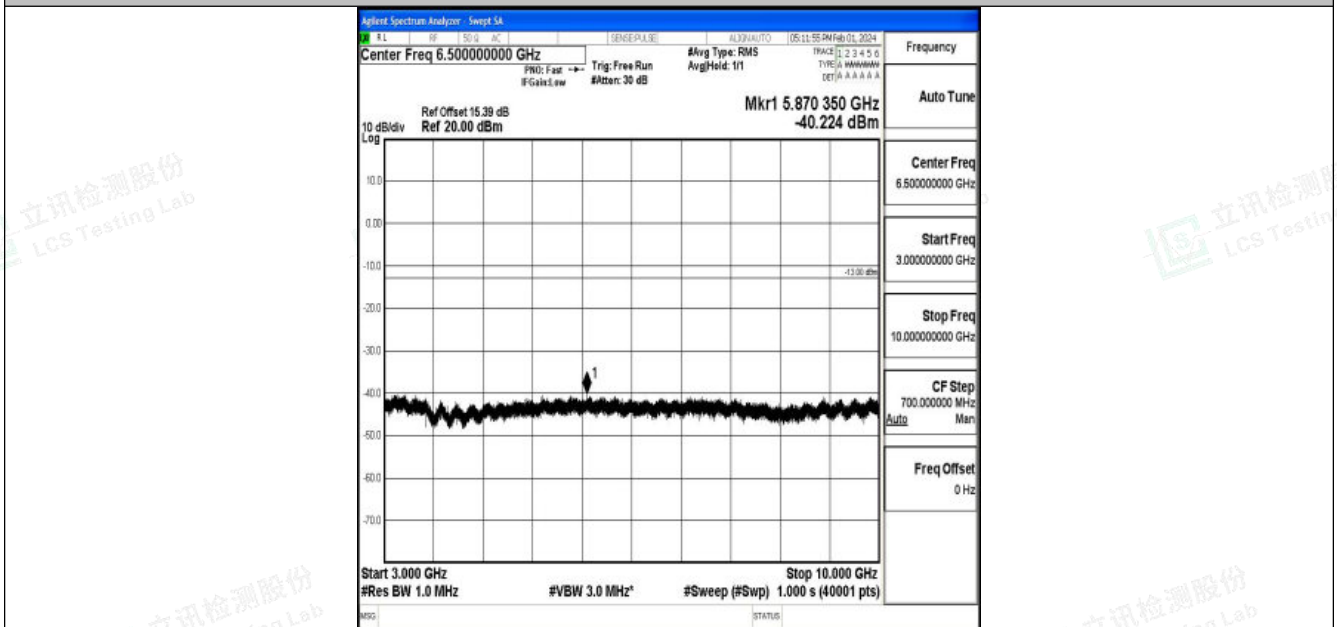
Band13_5MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15





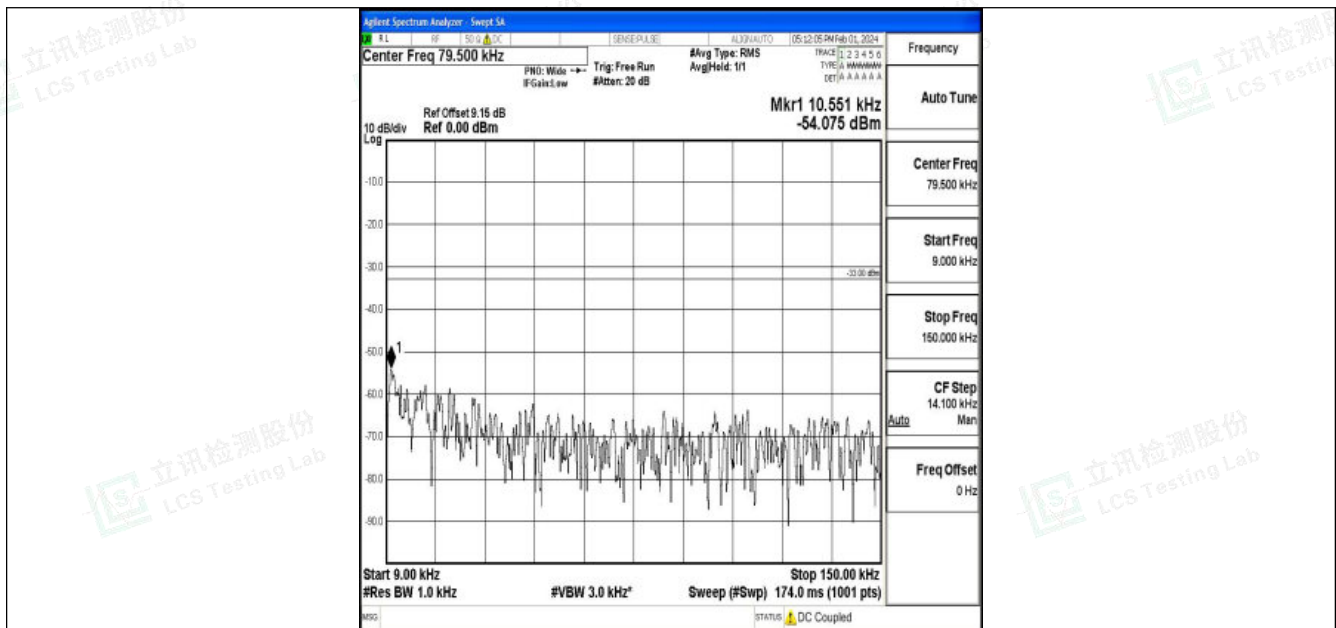


Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000

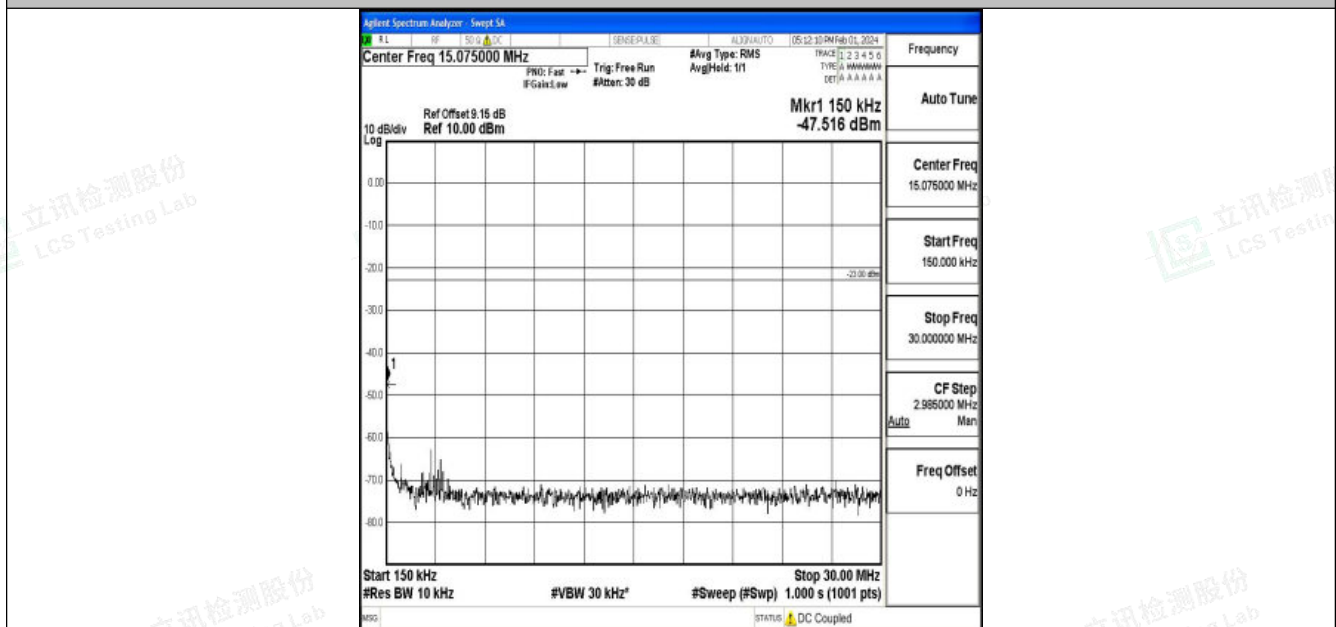


Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000



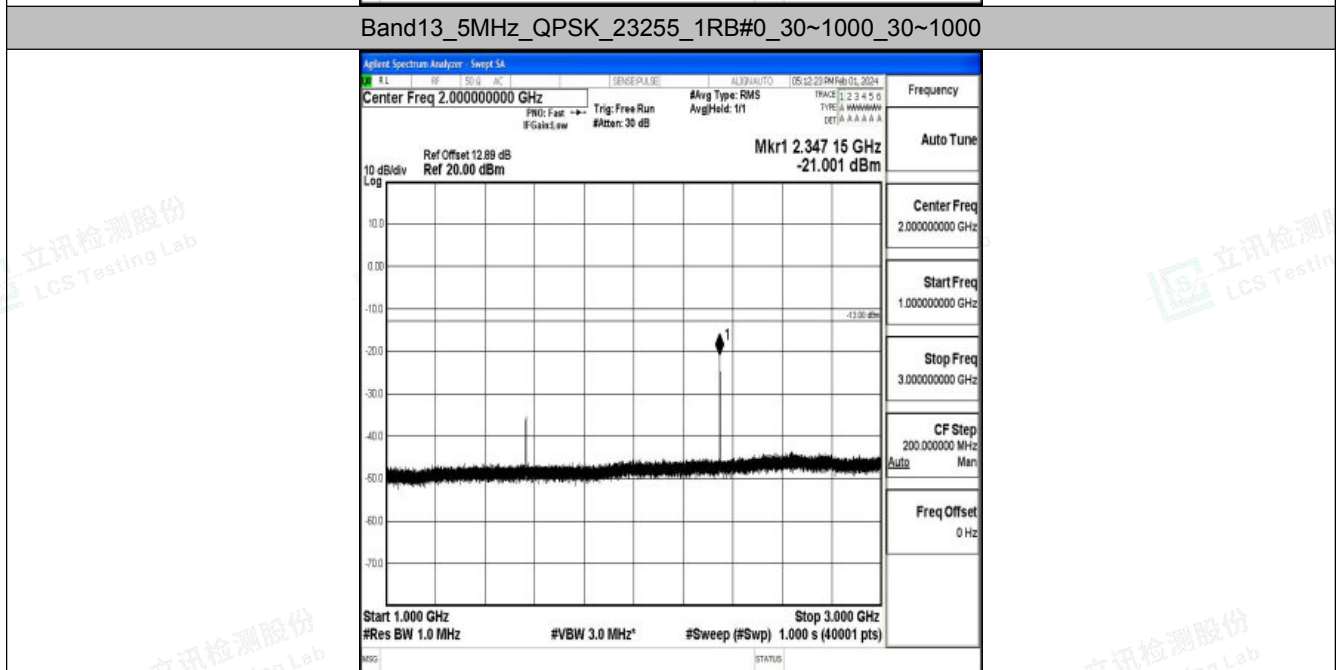
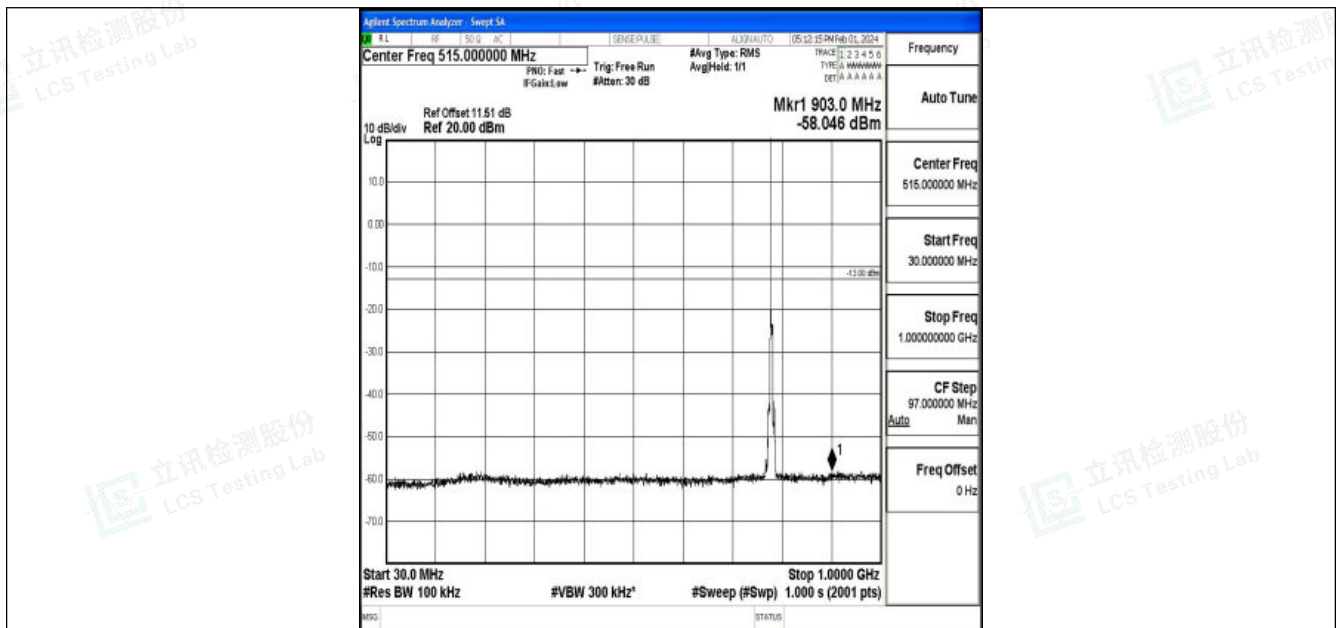


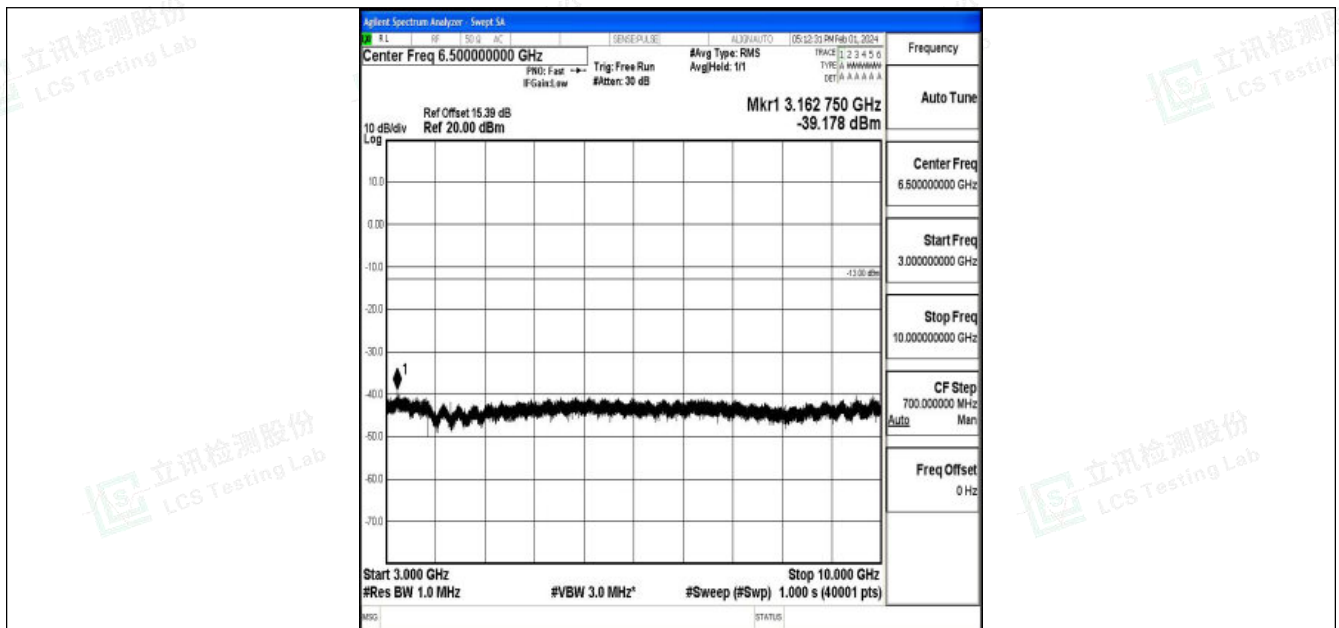
Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15



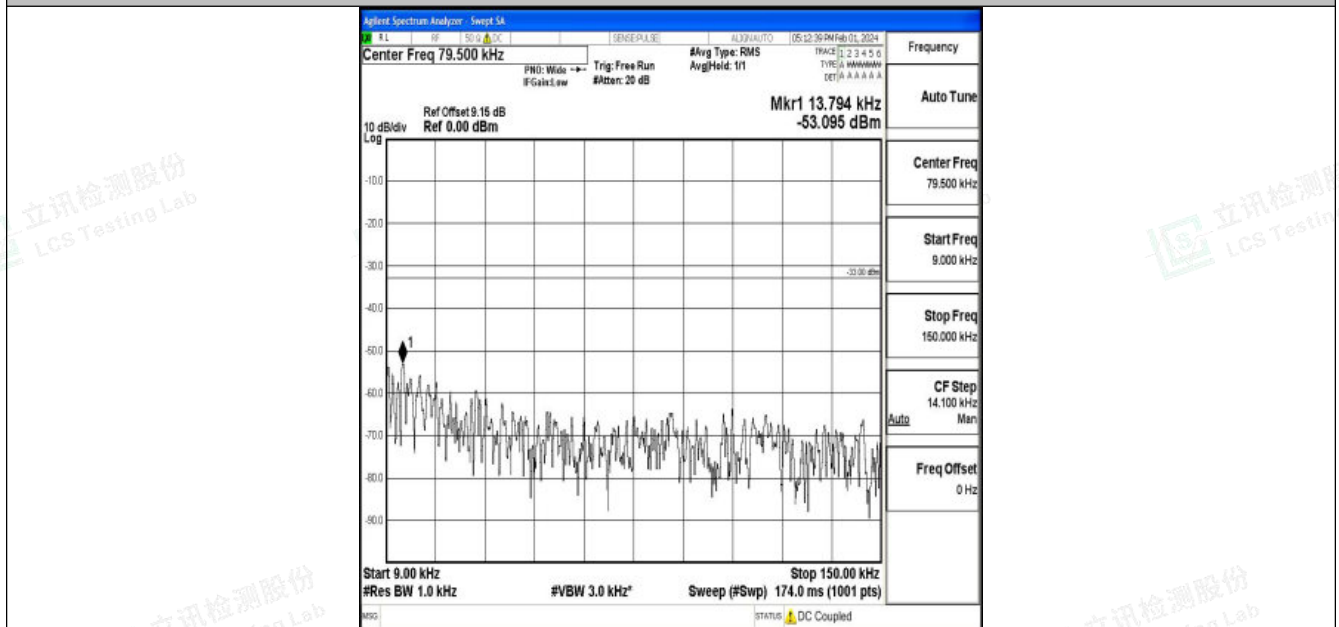
Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30







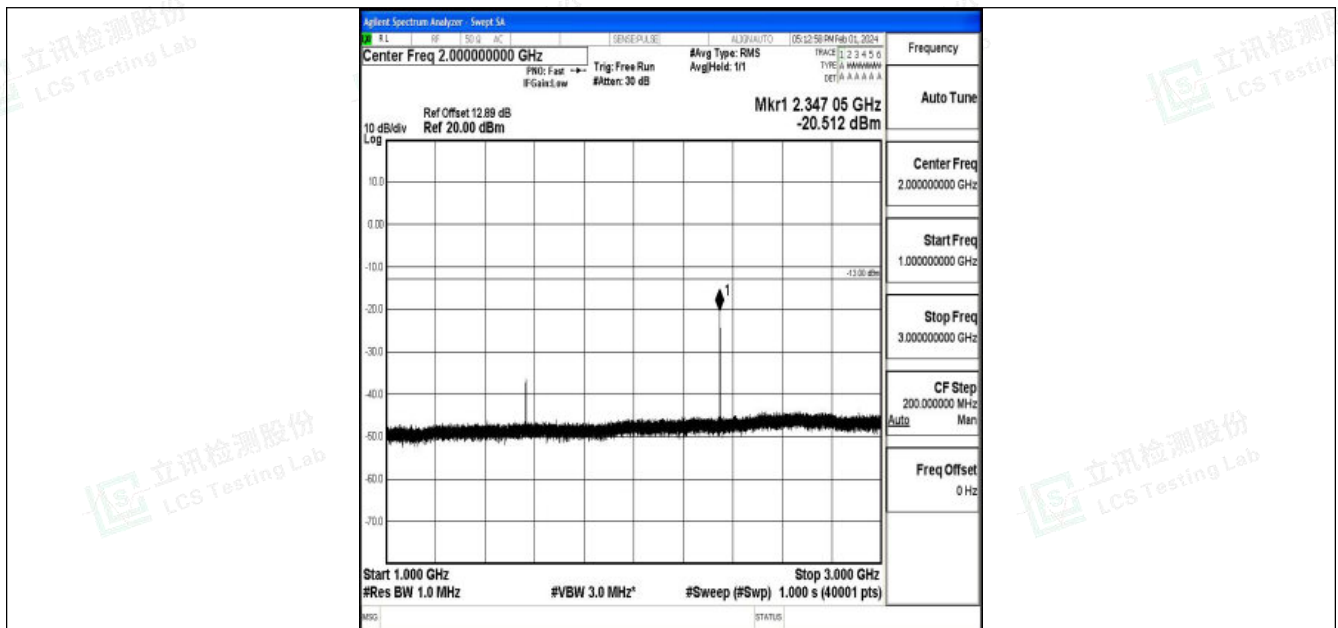
Band13_5MHz_QPSK_23255_1RB#0_3000~10000_3000~10000



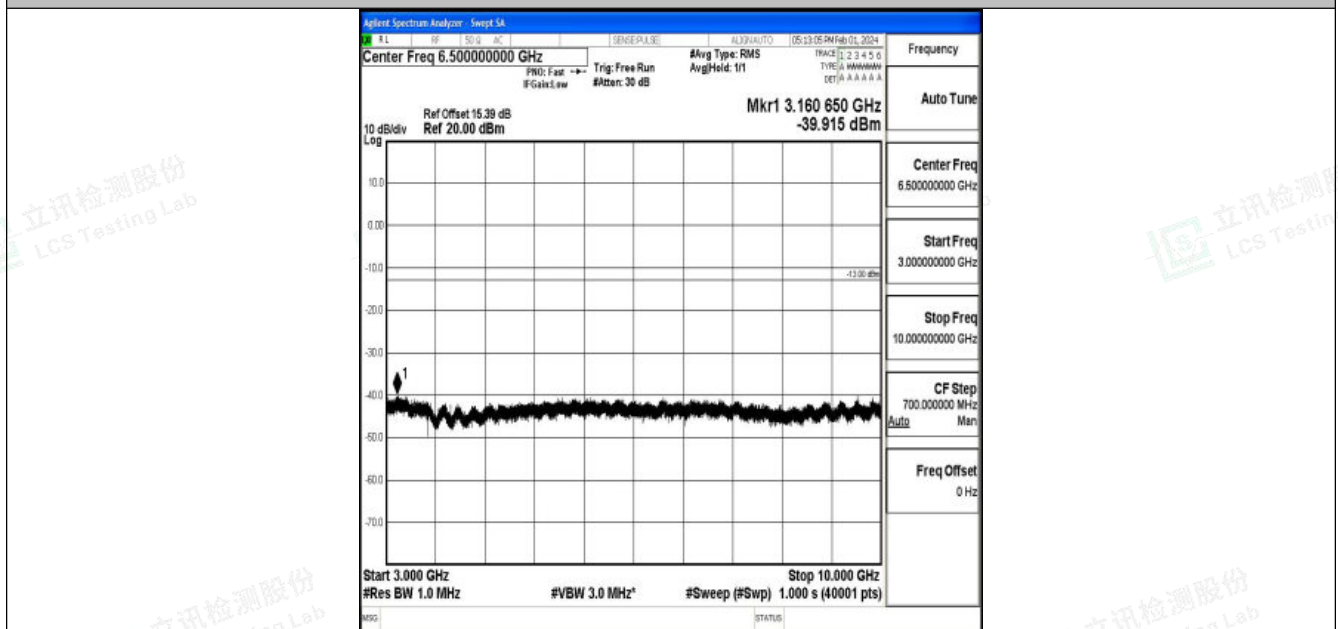
Band13_5MHz_16QAM_23255_1RB#0_0.009~0.15_0.009~0.15





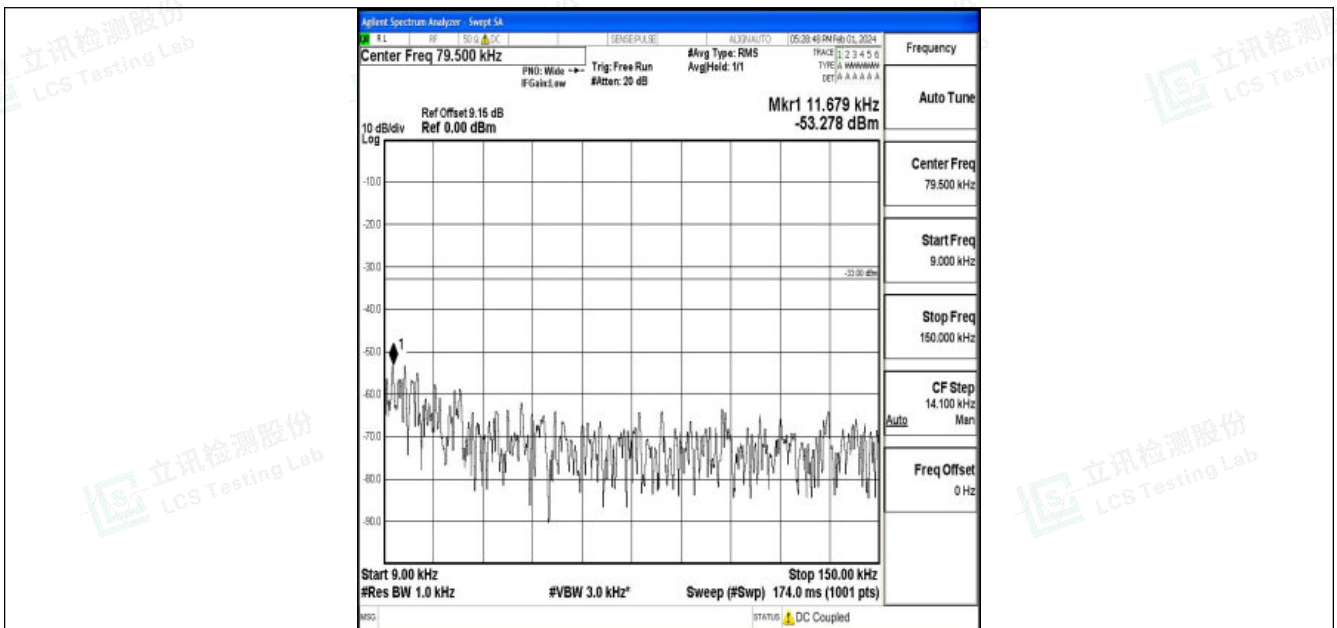


Band13_5MHz_16QAM_23255_1RB#0_1000~3000_1000~3000

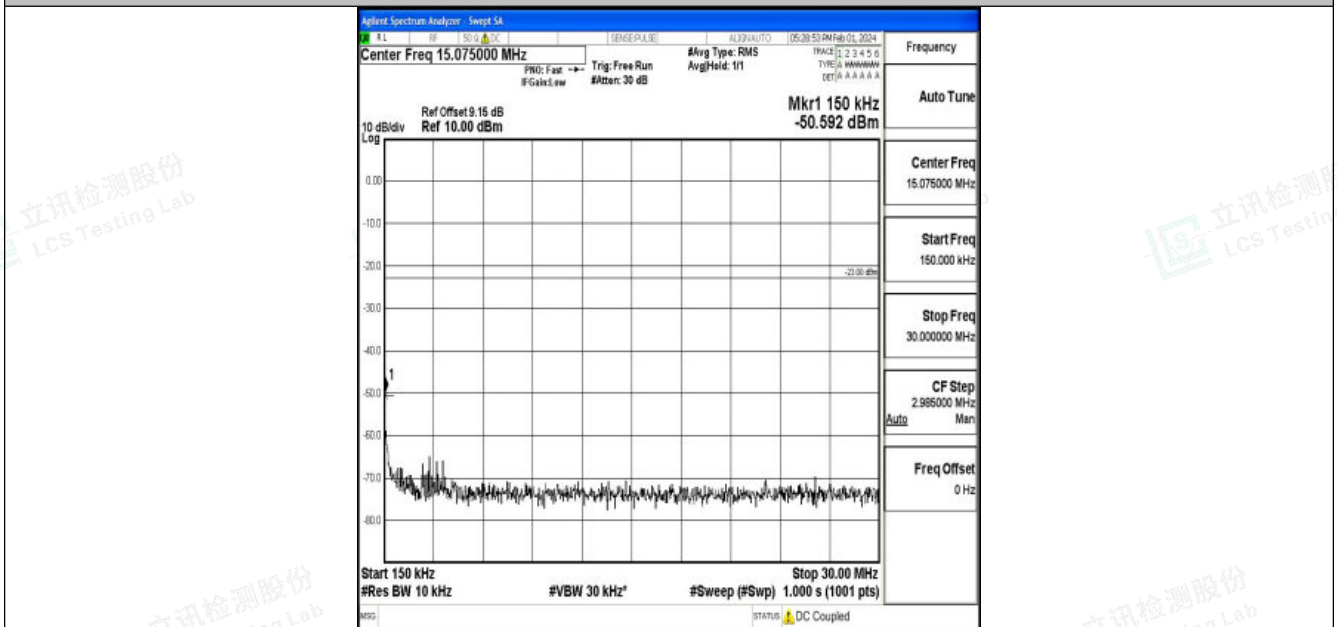


Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000



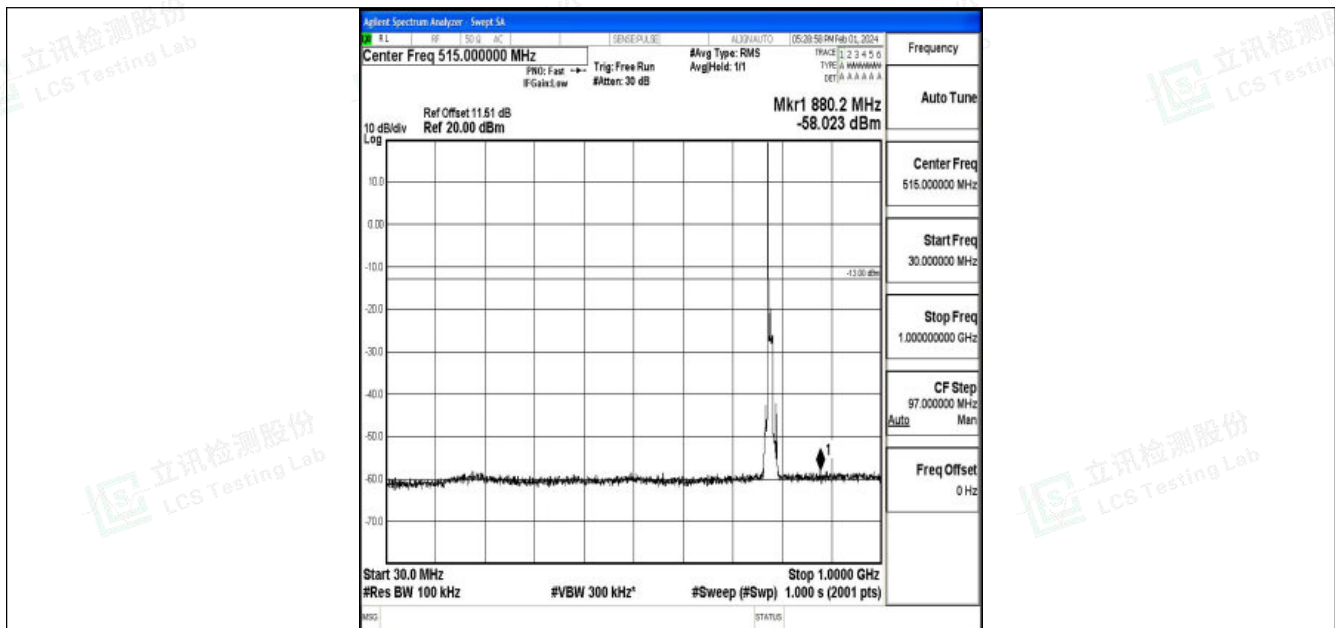


Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15

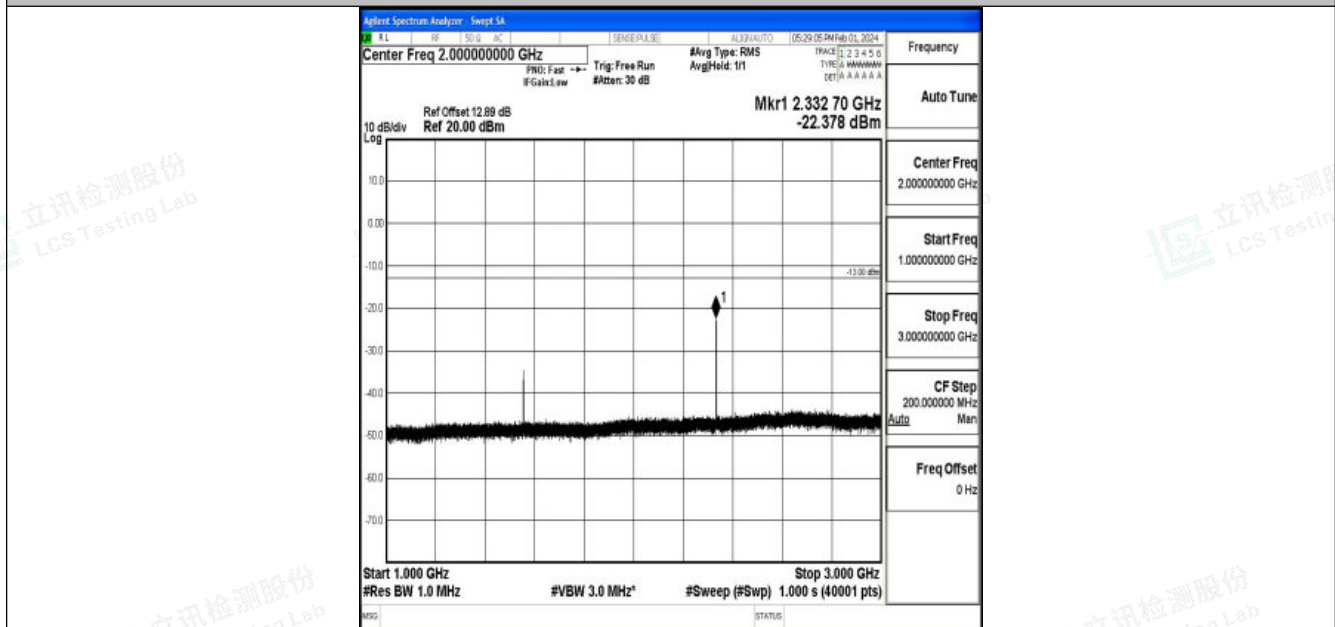


Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



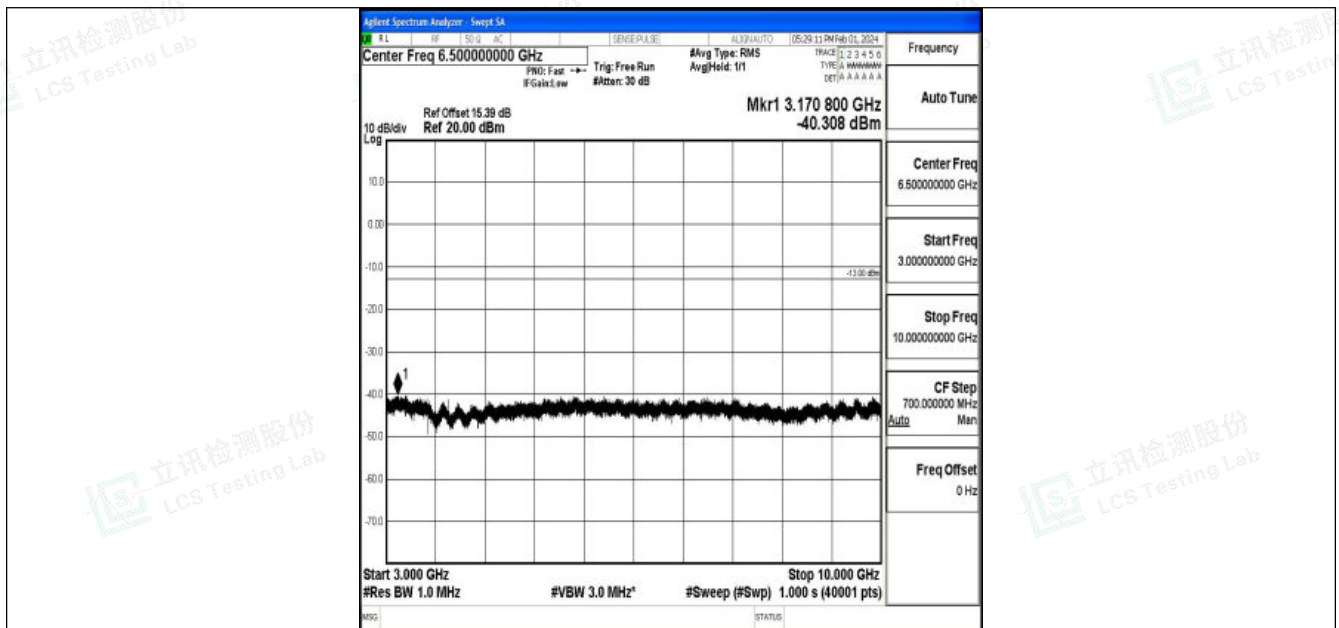


Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000

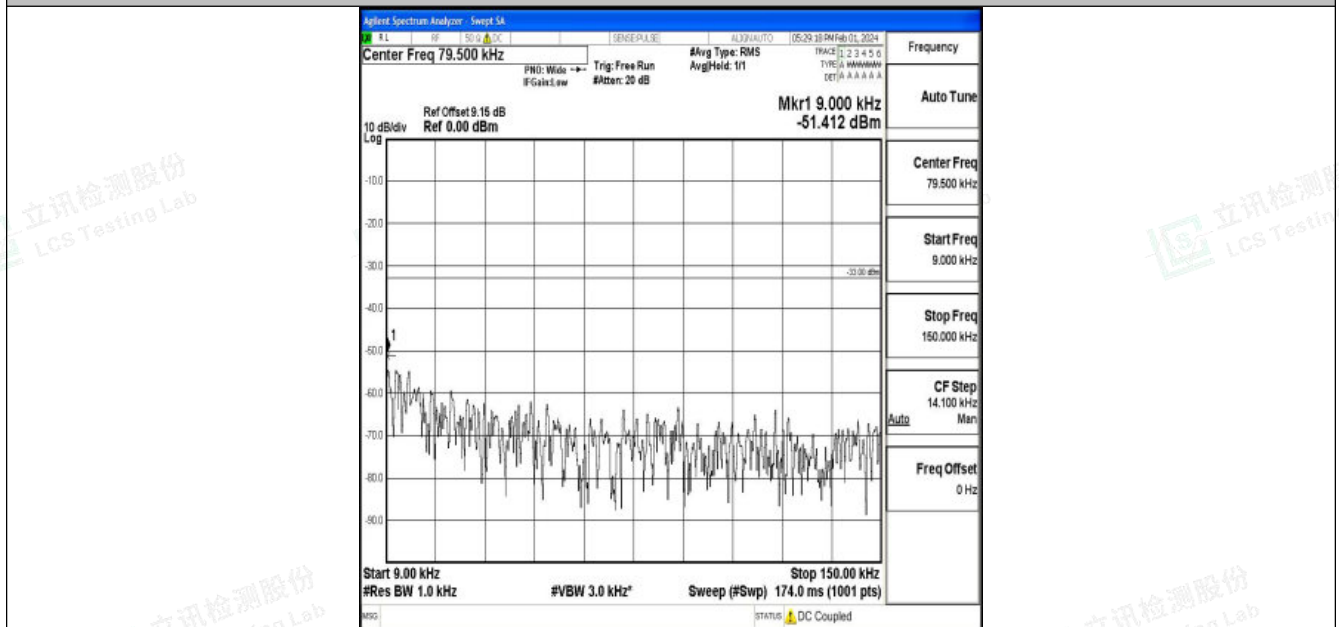


Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



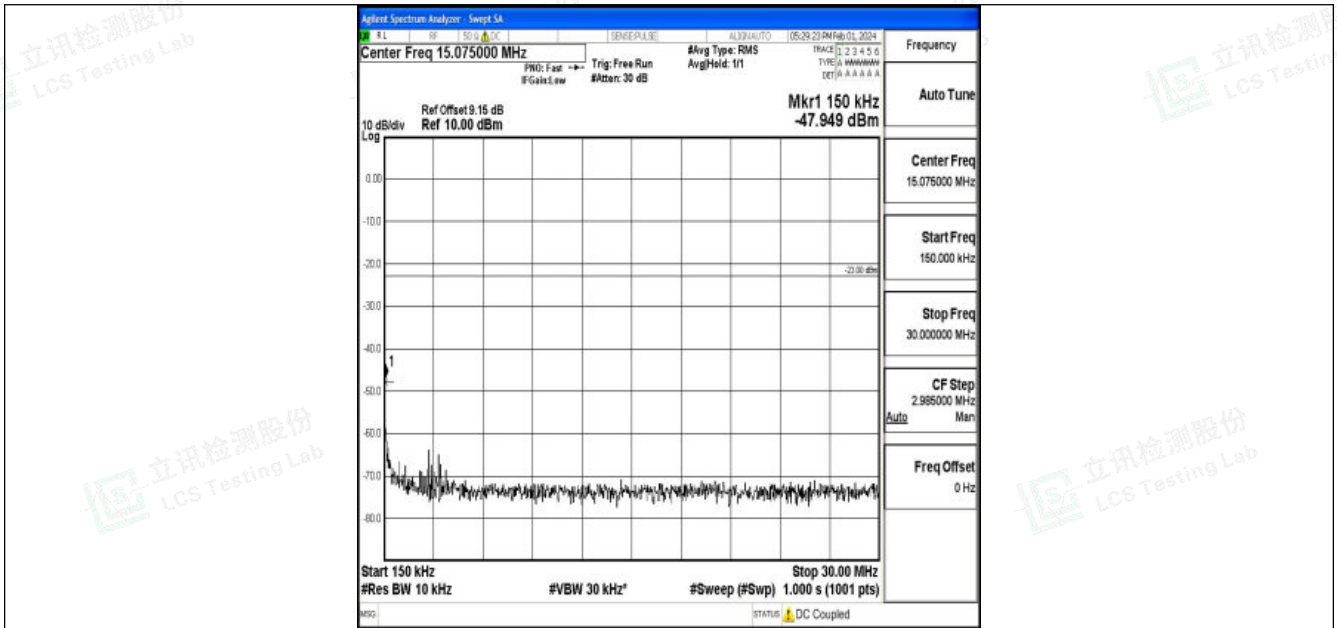


Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

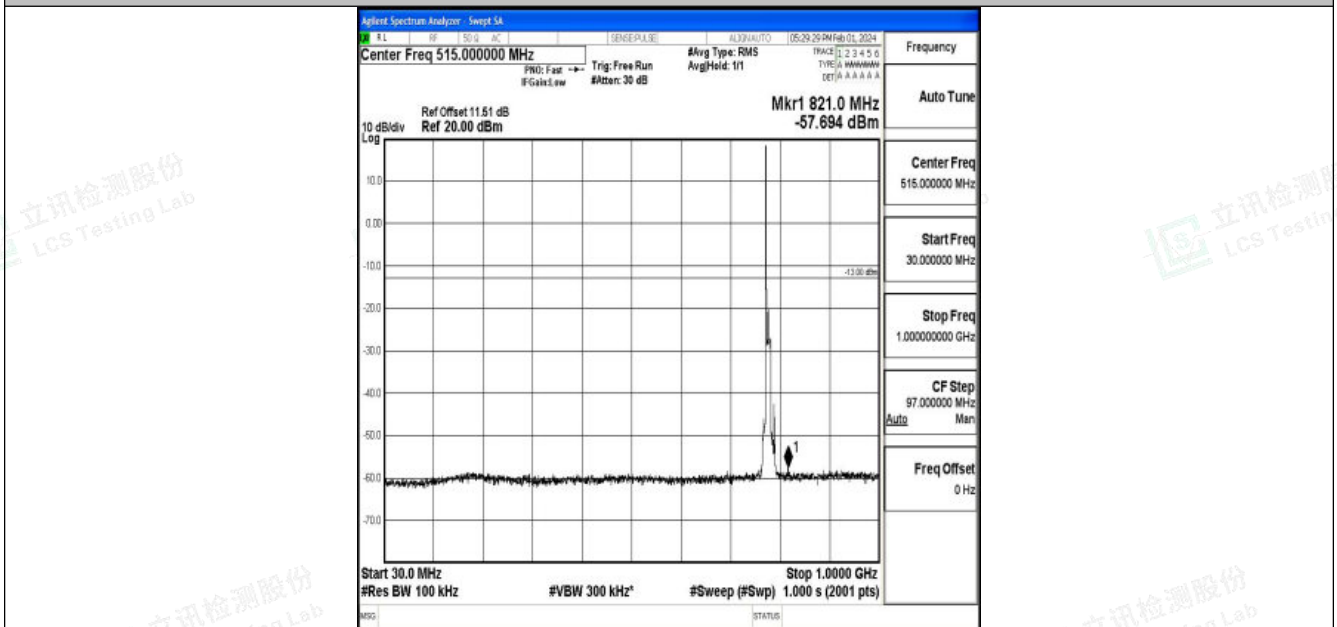


Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



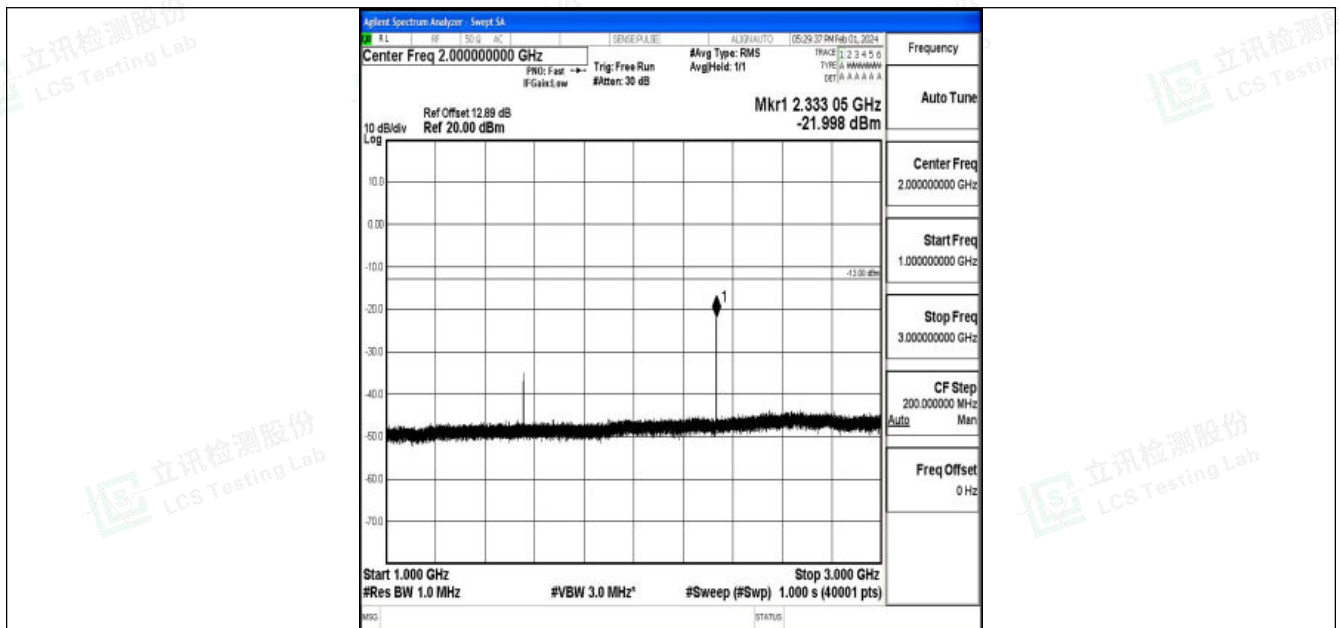


Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

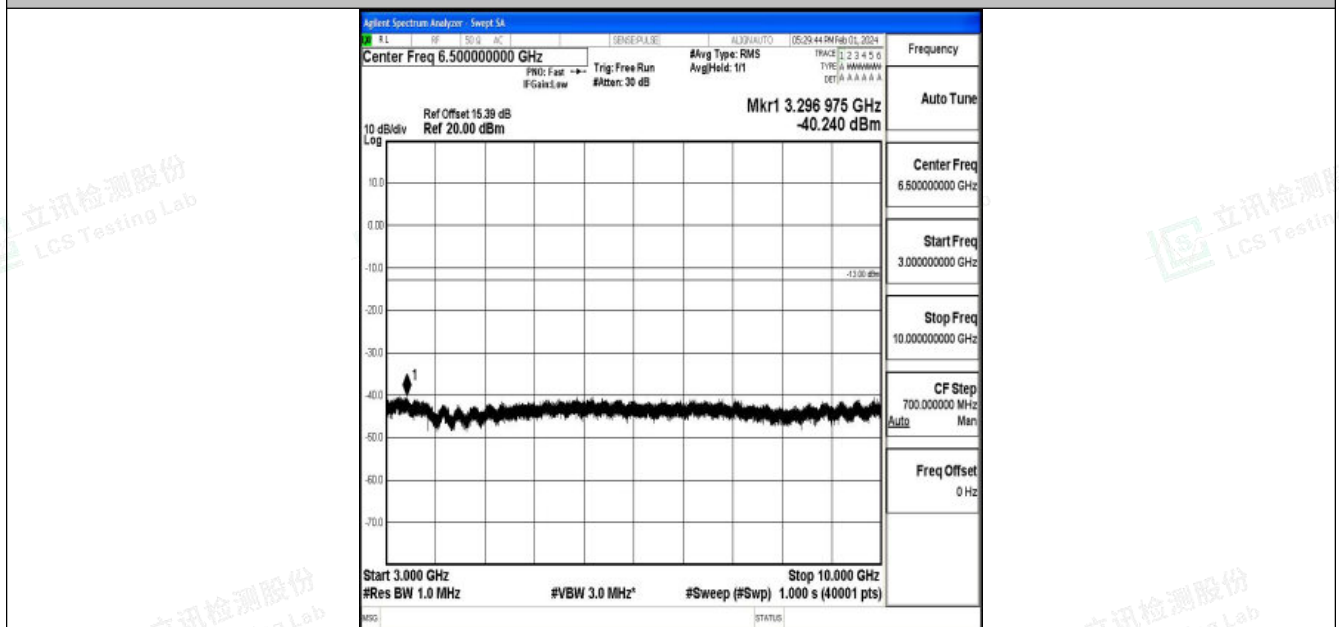


Band13_10MHz_16QAM_23230_1RB#0_30~1000_30~1000





Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000

