



Appendix H: Test Data for E-UTRA Band 5

Product Name: SmartHub
Test Model: SmartHub v2

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





H.1 Effective (Isotropic) Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	20.02	PASS
Band5	1.4MHz	20407	QPSK	1	5	Low	20.03	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	18.12	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	20.06	PASS
Band5	1.4MHz	20525	QPSK	1	5	Low	20.26	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	18.08	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	19.69	PASS
Band5	1.4MHz	20643	QPSK	1	5	High	19.47	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	17.65	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	19.28	PASS
Band5	1.4MHz	20407	16QAM	1	5	Low	19.18	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	18.12	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	19.22	PASS
Band5	1.4MHz	20525	16QAM	1	5	Low	18.97	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	17.90	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	18.81	PASS
Band5	1.4MHz	20643	16QAM	1	5	High	18.89	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	17.58	PASS
Band5	3MHz	20415	QPSK	1	0	Low	20.03	PASS
Band5	3MHz	20415	QPSK	1	5	Low	20.25	PASS
Band5	3MHz	20415	QPSK	6	0	Low	18.27	PASS
Band5	3MHz	20525	QPSK	1	0	Low	20.15	PASS
Band5	3MHz	20525	QPSK	1	5	Low	20.12	PASS
Band5	3MHz	20525	QPSK	6	0	Low	17.97	PASS
Band5	3MHz	20635	QPSK	1	0	High	19.58	PASS
Band5	3MHz	20635	QPSK	1	5	High	19.51	PASS
Band5	3MHz	20635	QPSK	6	0	High	17.65	PASS
Band5	3MHz	20415	16QAM	1	0	Low	19.34	PASS
Band5	3MHz	20415	16QAM	1	5	Low	19.28	PASS
Band5	3MHz	20415	16QAM	6	0	Low	18.11	PASS
Band5	3MHz	20525	16QAM	1	0	Low	19.05	PASS
Band5	3MHz	20525	16QAM	1	5	Low	18.98	PASS
Band5	3MHz	20525	16QAM	6	0	Low	17.91	PASS



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Band5	3MHz	20635	16QAM	1	0	High	18.74	PASS
Band5	3MHz	20635	16QAM	1	5	High	18.84	PASS
Band5	3MHz	20635	16QAM	6	0	High	17.47	PASS
Band5	5MHz	20425	QPSK	1	0	Low	20.67	PASS
Band5	5MHz	20425	QPSK	1	5	Low	20.40	PASS
Band5	5MHz	20425	QPSK	6	0	Low	19.18	PASS
Band5	5MHz	20525	QPSK	1	0	Low	20.32	PASS
Band5	5MHz	20525	QPSK	1	5	Low	20.28	PASS
Band5	5MHz	20525	QPSK	6	0	Low	18.89	PASS
Band5	5MHz	20625	QPSK	1	0	High	20.00	PASS
Band5	5MHz	20625	QPSK	1	5	High	19.87	PASS
Band5	5MHz	20625	QPSK	6	0	High	18.70	PASS
Band5	5MHz	20425	16QAM	1	0	Low	21.07	PASS
Band5	5MHz	20425	16QAM	1	5	Low	20.47	PASS
Band5	5MHz	20425	16QAM	6	0	Low	19.04	PASS
Band5	5MHz	20525	16QAM	1	0	Low	20.30	PASS
Band5	5MHz	20525	16QAM	1	5	Low	20.24	PASS
Band5	5MHz	20525	16QAM	6	0	Low	18.78	PASS
Band5	5MHz	20625	16QAM	1	0	High	20.18	PASS
Band5	5MHz	20625	16QAM	1	5	High	20.09	PASS
Band5	5MHz	20625	16QAM	6	0	High	18.53	PASS
Band5	10MHz	20450	QPSK	1	0	Low	20.43	PASS
Band5	10MHz	20450	QPSK	1	5	Low	20.41	PASS
Band5	10MHz	20450	QPSK	6	0	Low	19.05	PASS
Band5	10MHz	20525	QPSK	1	0	Low	20.37	PASS
Band5	10MHz	20525	QPSK	1	5	Low	20.29	PASS
Band5	10MHz	20525	QPSK	6	0	Low	18.89	PASS
Band5	10MHz	20600	QPSK	1	0	High	19.91	PASS
Band5	10MHz	20600	QPSK	1	5	High	19.91	PASS
Band5	10MHz	20600	QPSK	6	0	High	18.65	PASS
Band5	10MHz	20450	16QAM	1	0	Low	20.65	PASS
Band5	10MHz	20450	16QAM	1	5	Low	20.77	PASS
Band5	10MHz	20450	16QAM	6	0	Low	18.91	PASS
Band5	10MHz	20525	16QAM	1	0	Low	20.34	PASS
Band5	10MHz	20525	16QAM	1	5	Low	20.26	PASS
Band5	10MHz	20525	16QAM	6	0	Low	18.88	PASS
Band5	10MHz	20600	16QAM	1	0	High	20.13	PASS
Band5	10MHz	20600	16QAM	1	5	High	20.07	PASS
Band5	10MHz	20600	16QAM	6	0	High	18.55	PASS





H.2 Peak-to-Average Ratio(CCDF) for M1

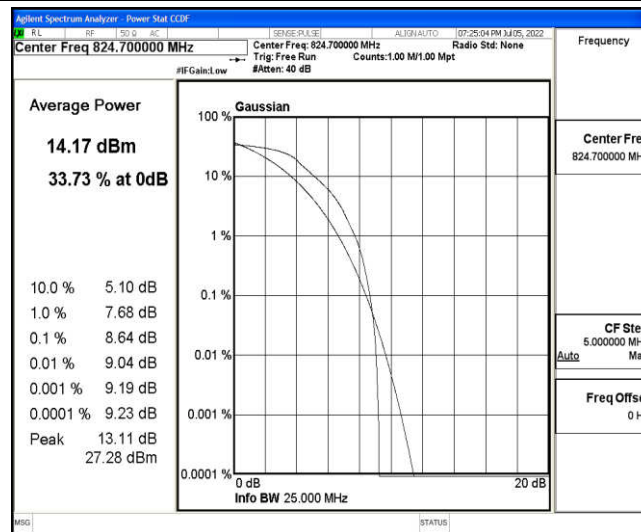
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	8.64	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	10.98	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	11.74	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	10.07	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	9.61	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	9.14	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	10.14	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	10.69	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	11.31	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	11.32	<=13	PASS
Band5	3MHz	20525	16QAM	6	0	Low	9.58	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	9.84	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	10.37	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	10.11	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	10.59	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	11.04	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	9.15	<=13	PASS
Band5	5MHz	20625	16QAM	6	0	High	11.42	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	12.24	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	9.82	<=13	PASS
Band5	10MHz	20600	QPSK	6	0	High	11.05	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	11.52	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	12.23	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	10.34	<=13	PASS

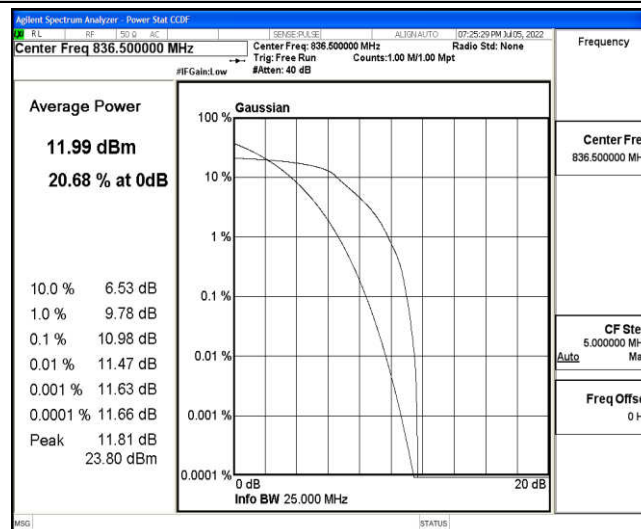




Test Graphs

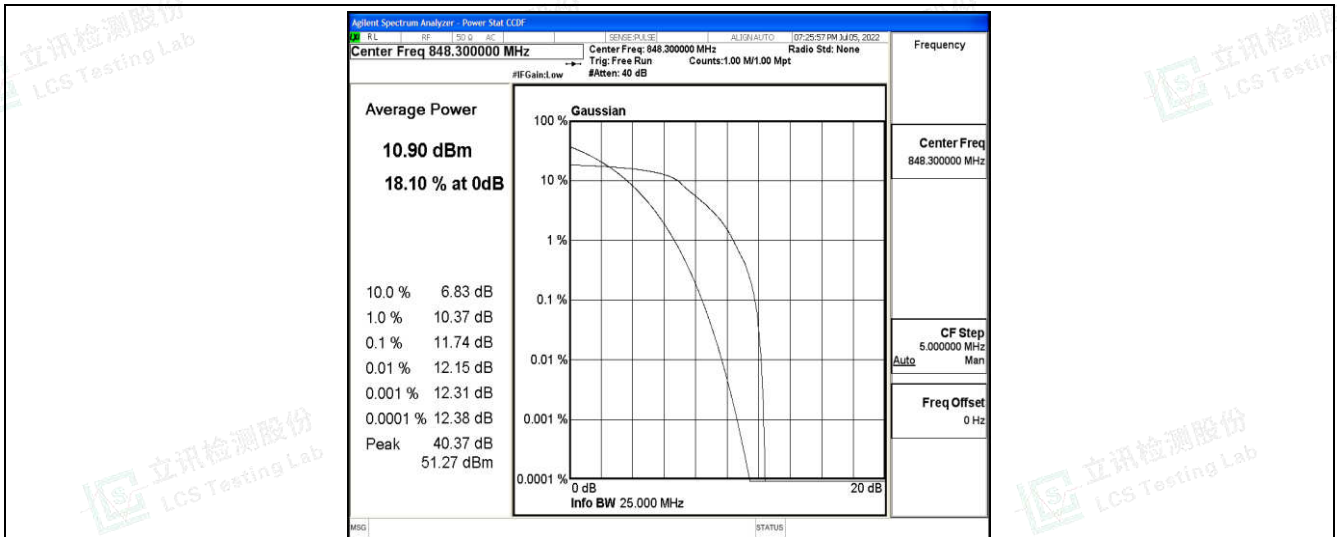


Band5-1.4MHz-QPSK-20407-6-0-Low-8.64-<=13-PASS

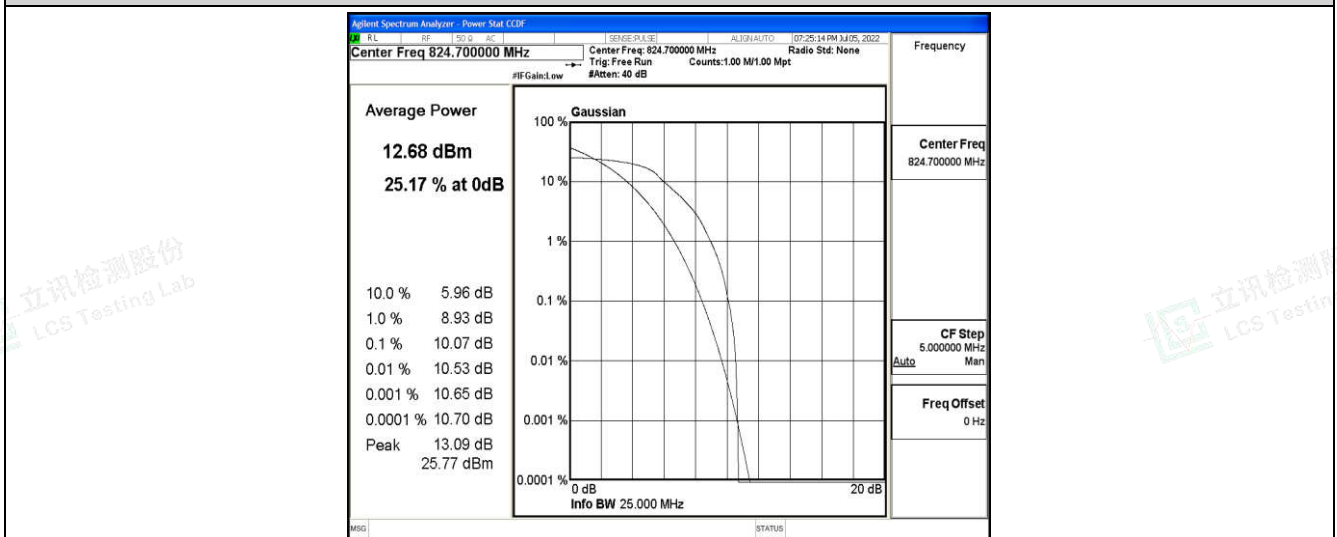


Band5-1.4MHz-QPSK-20525-6-0-Low-10.98-<=13-PASS

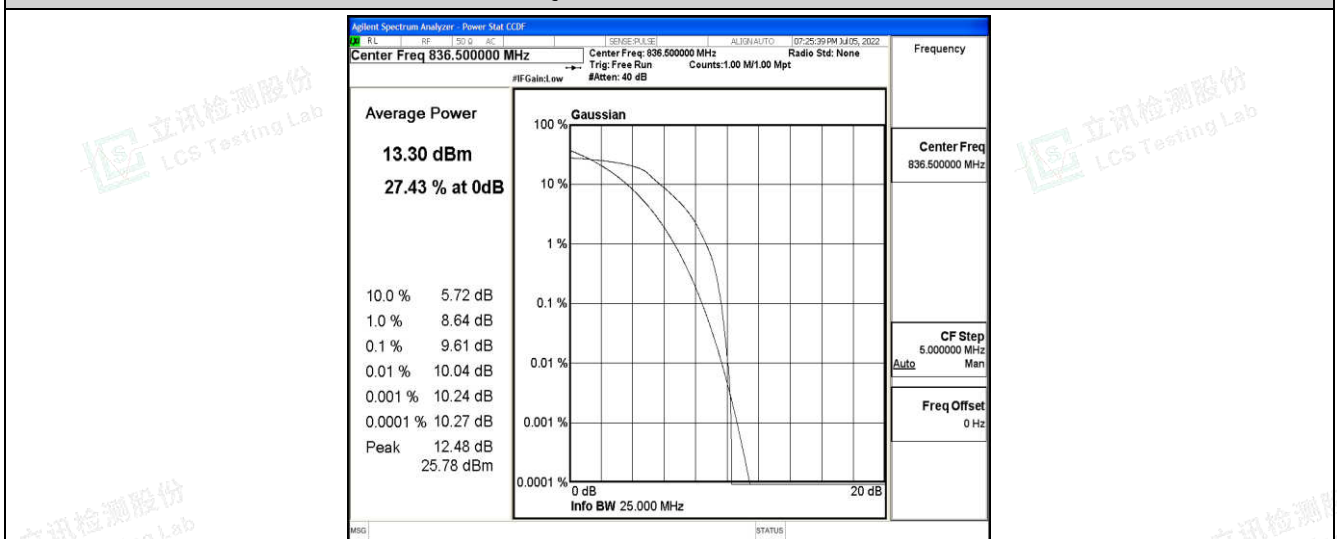




Band5-1.4MHz-QPSK-20643-6-0-High-11.74-<=13-PASS



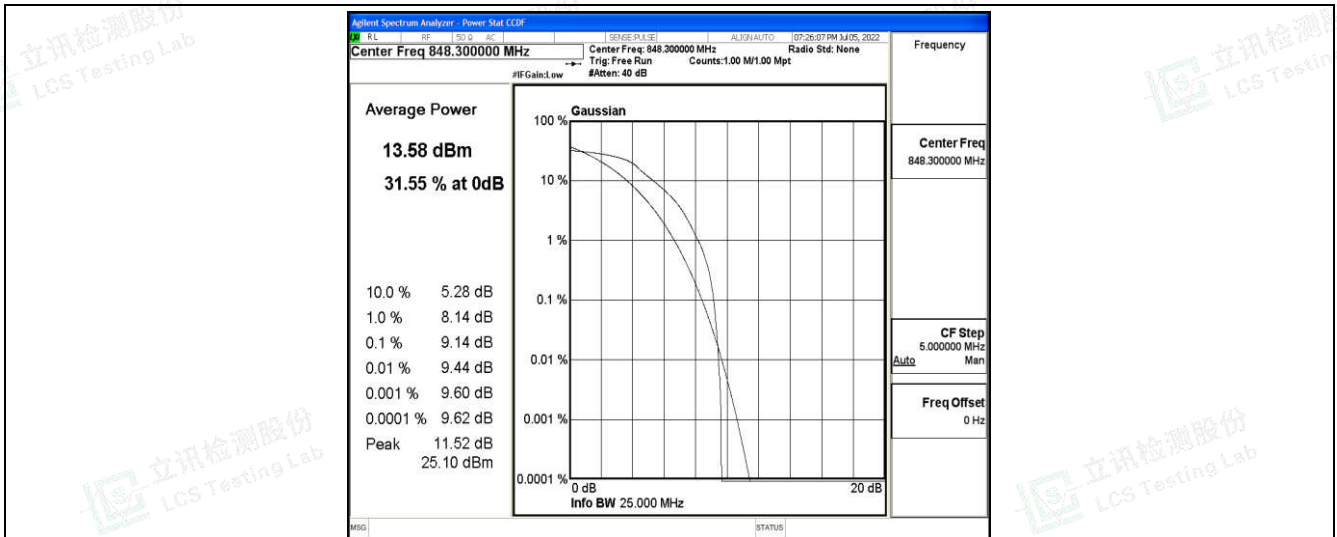
Band5-1.4MHz-16QAM-20407-6-0-Low-10.07-<=13-PASS



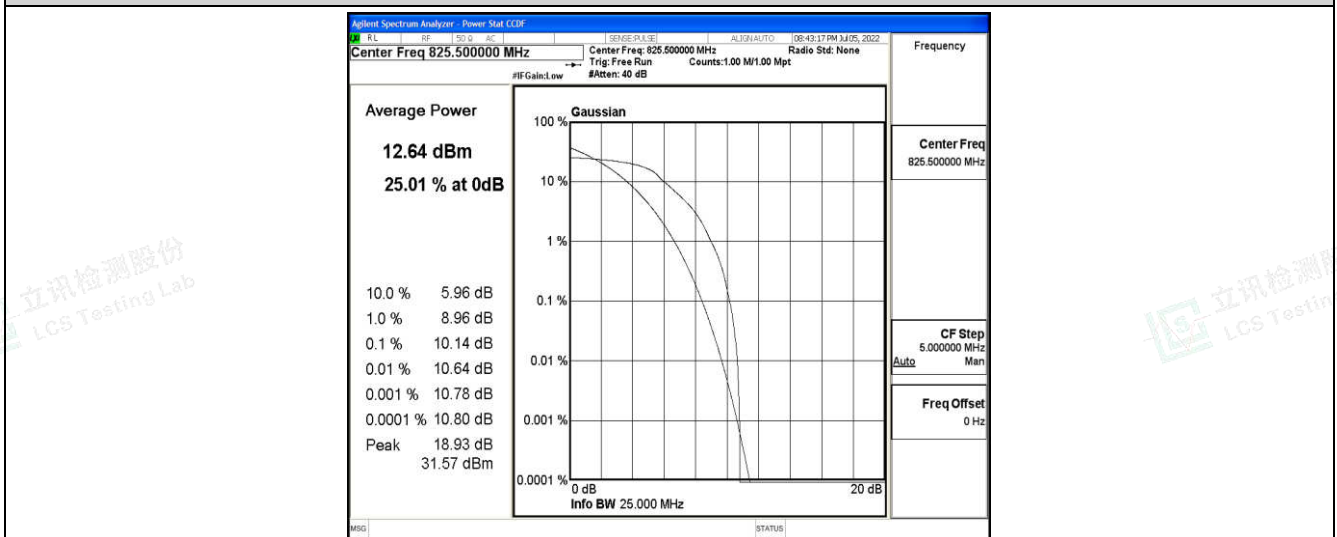
Band5-1.4MHz-16QAM-20525-6-0-Low-9.61-<=13-PASS



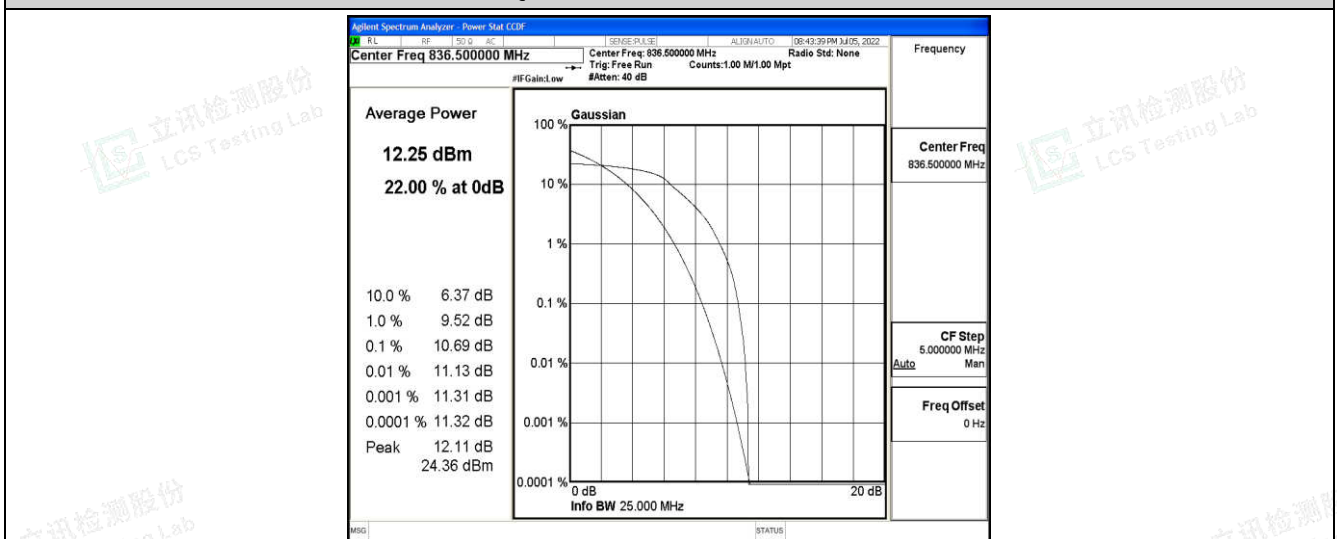
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Band5-1.4MHz-16QAM-20643-6-0-High-9.14-<=13-PASS



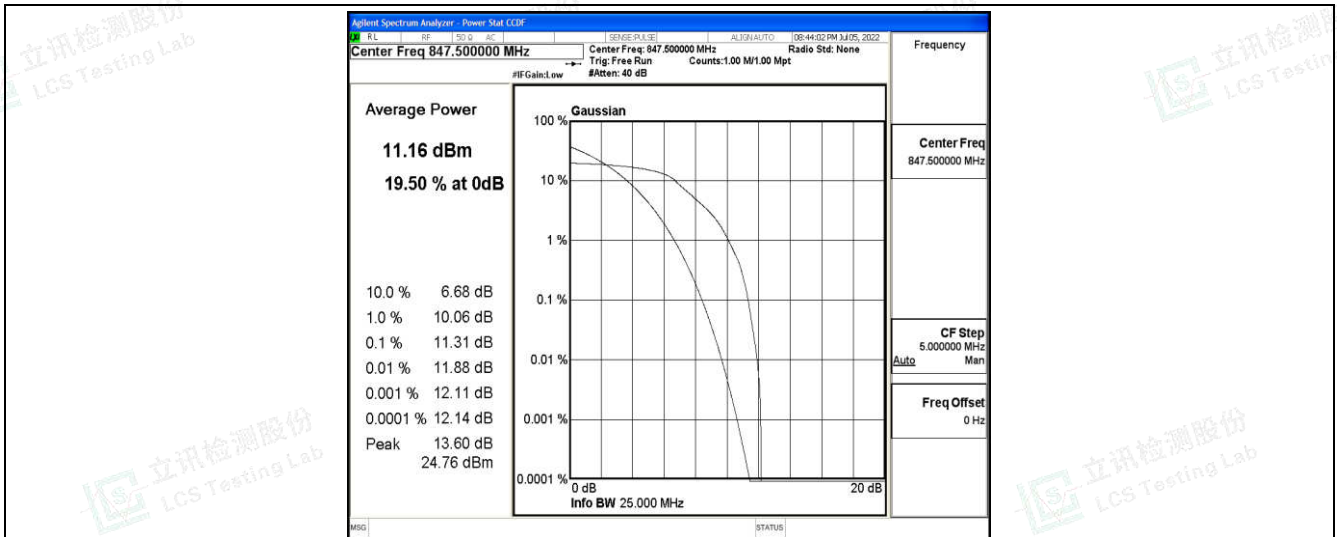
Band5-3MHz-QPSK-20415-6-0-Low-10.14-<=13-PASS



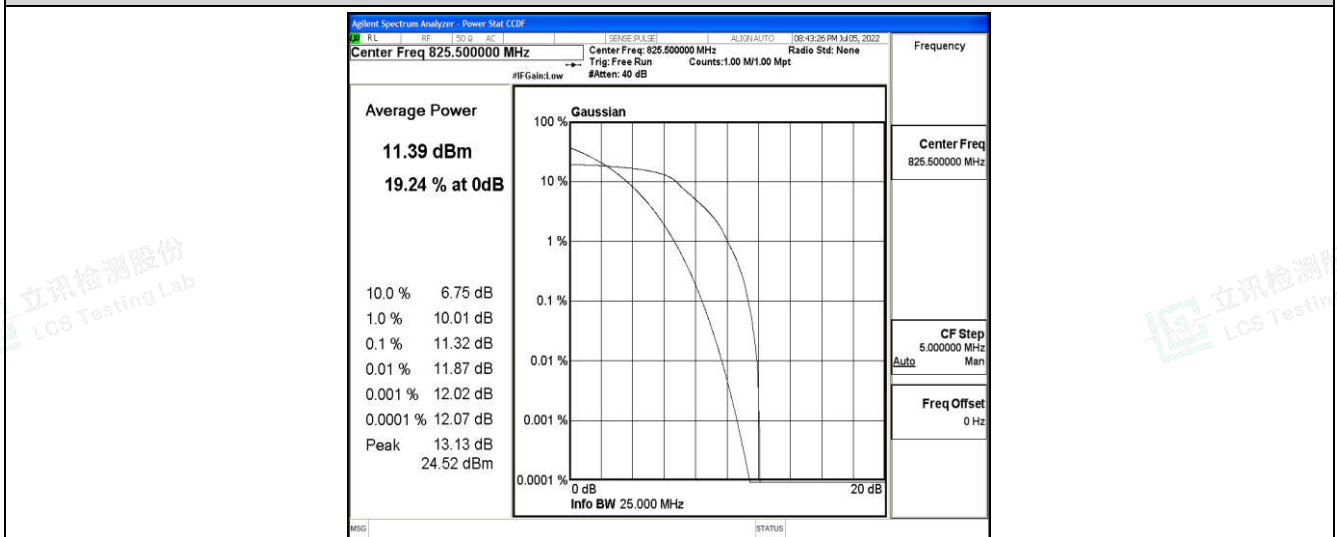
Band5-3MHz-QPSK-20525-6-0-Low-10.69-<=13-PASS



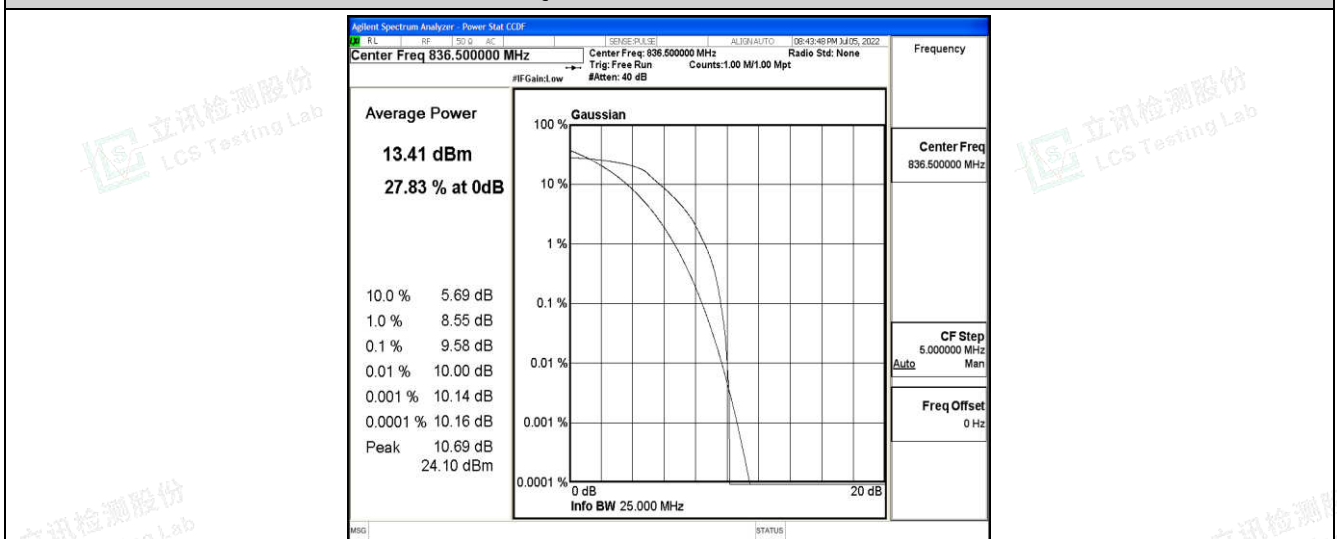
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Band5-3MHz-QPSK-20635-6-0-High-11.31-<=13-PASS



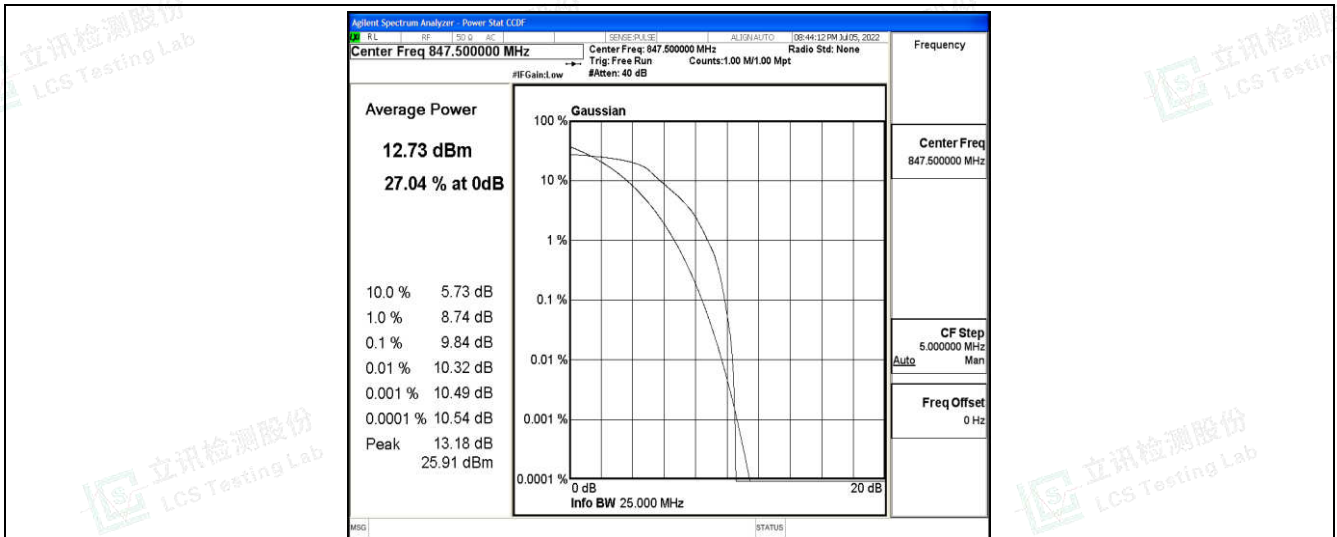
Band5-3MHz-16QAM-20415-6-0-Low-11.32-<=13-PASS



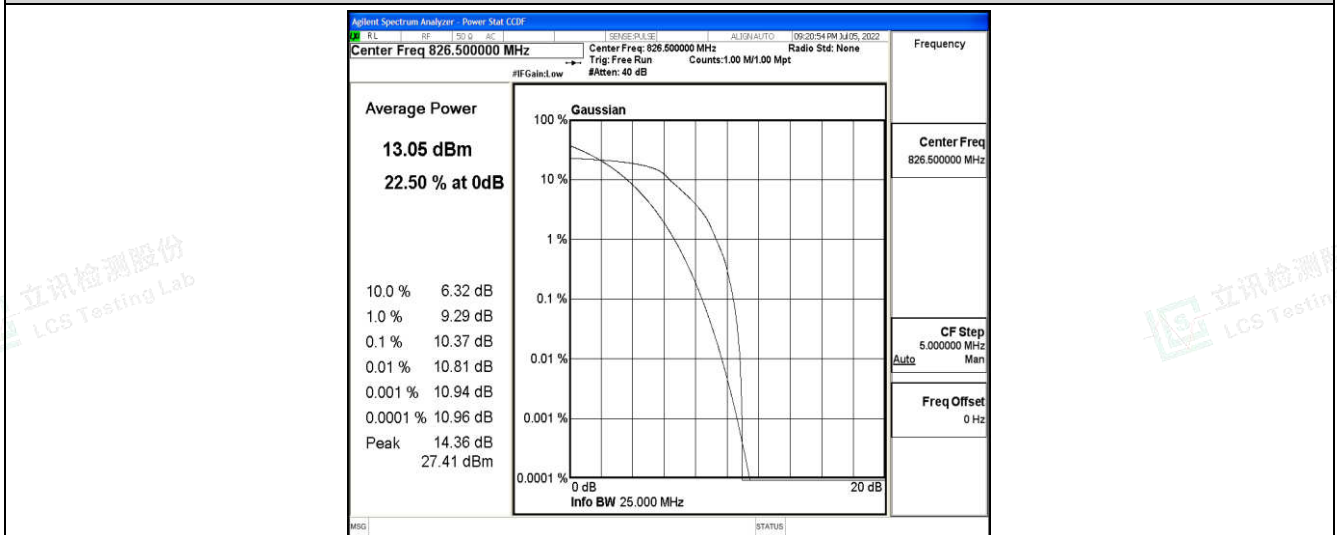
Band5-3MHz-16QAM-20525-6-0-Low-9.58-<=13-PASS



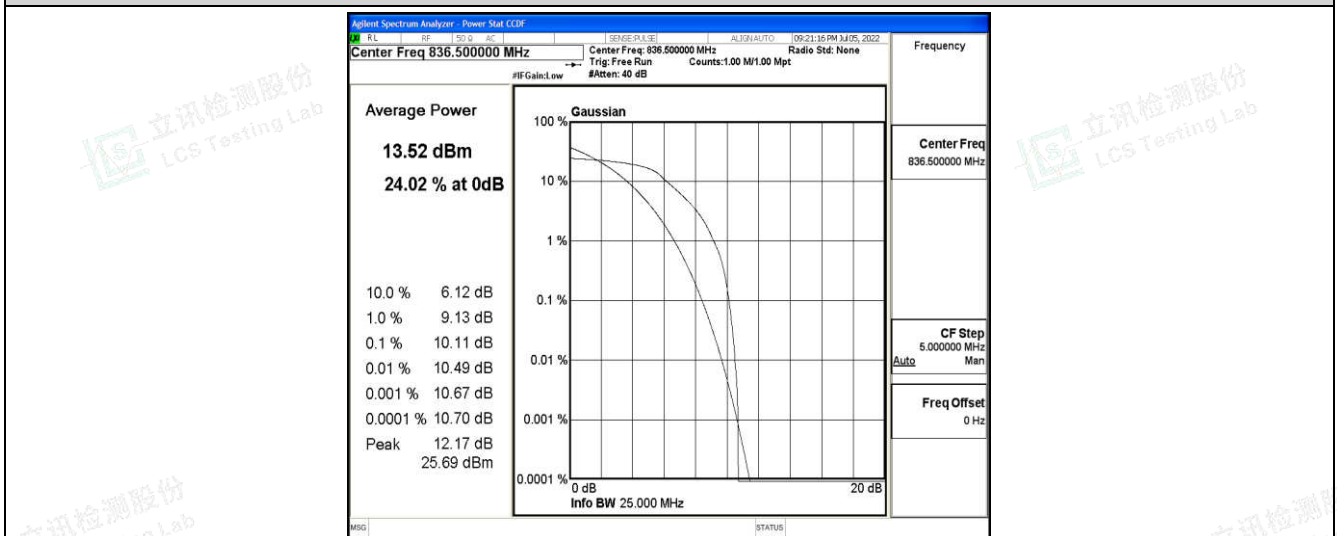
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Band5-3MHz-16QAM-20635-6-0-High-9.84-<=13-PASS

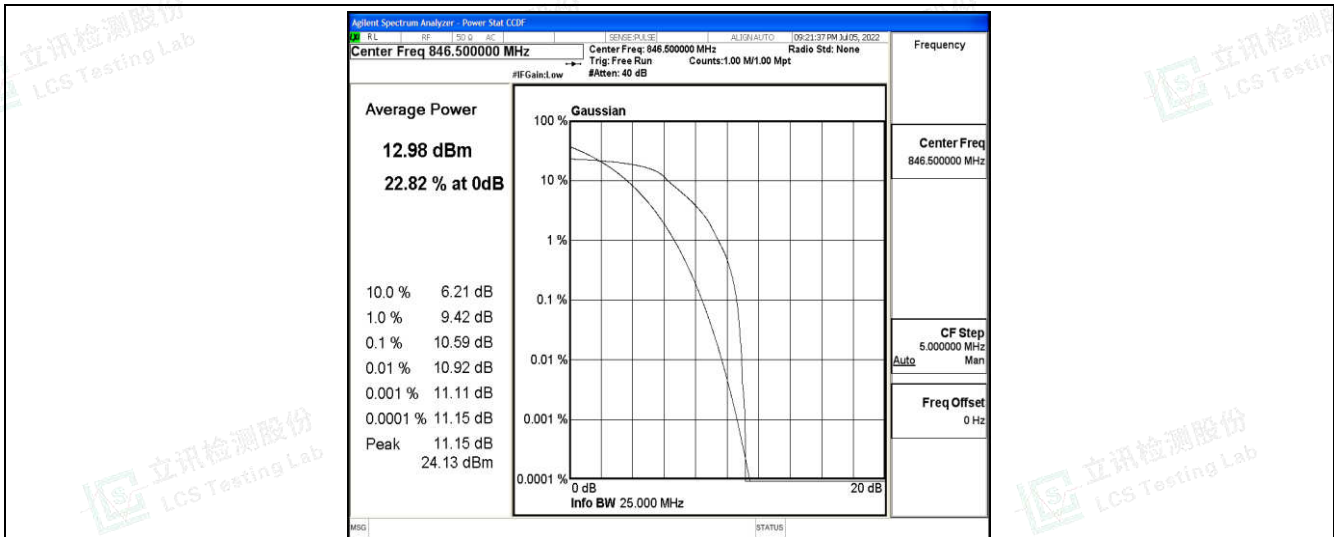


Band5-5MHz-QPSK-20425-6-0-Low-10.37-<=13-PASS

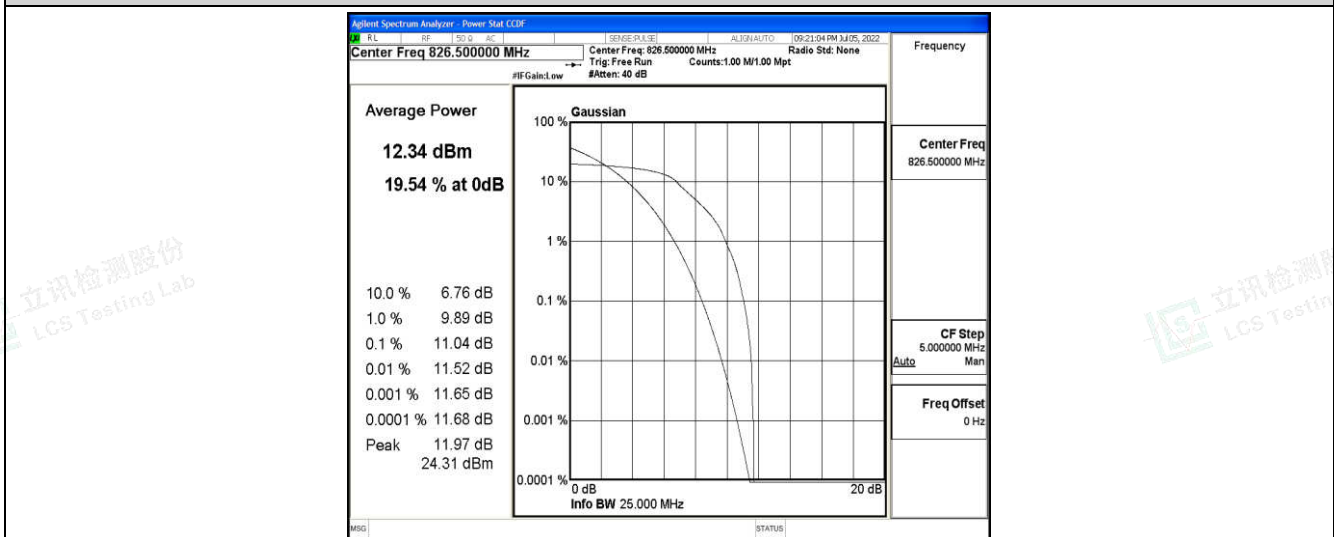


Band5-5MHz-QPSK-20525-6-0-Low-10.11-<=13-PASS

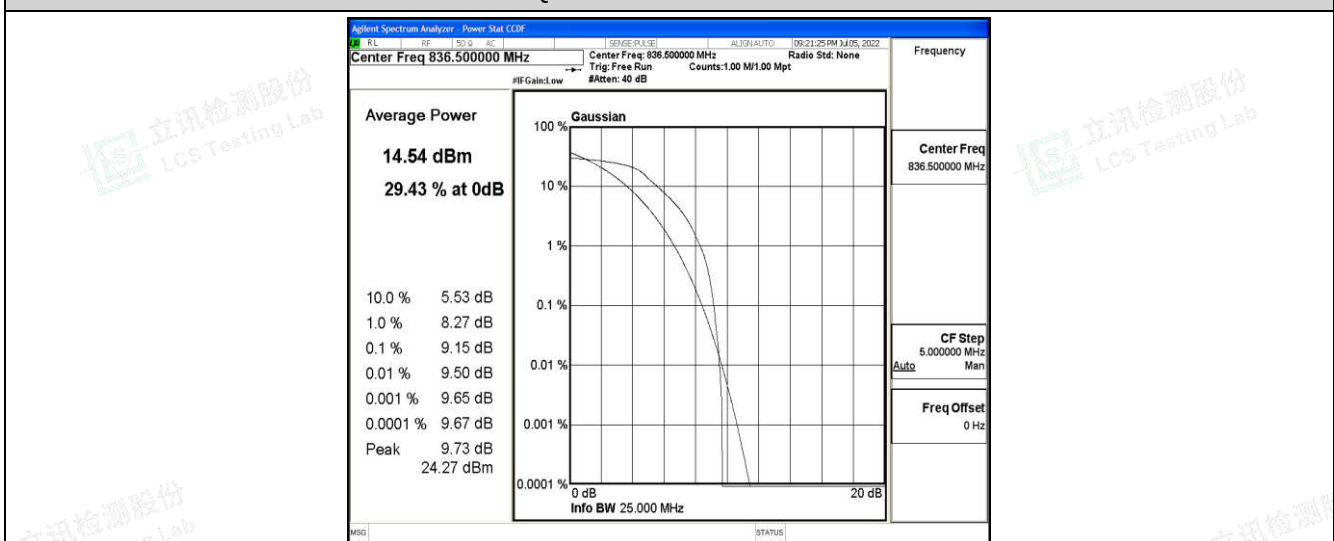




Band5-5MHz-QPSK-20625-6-0-High-10.59-<=13-PASS



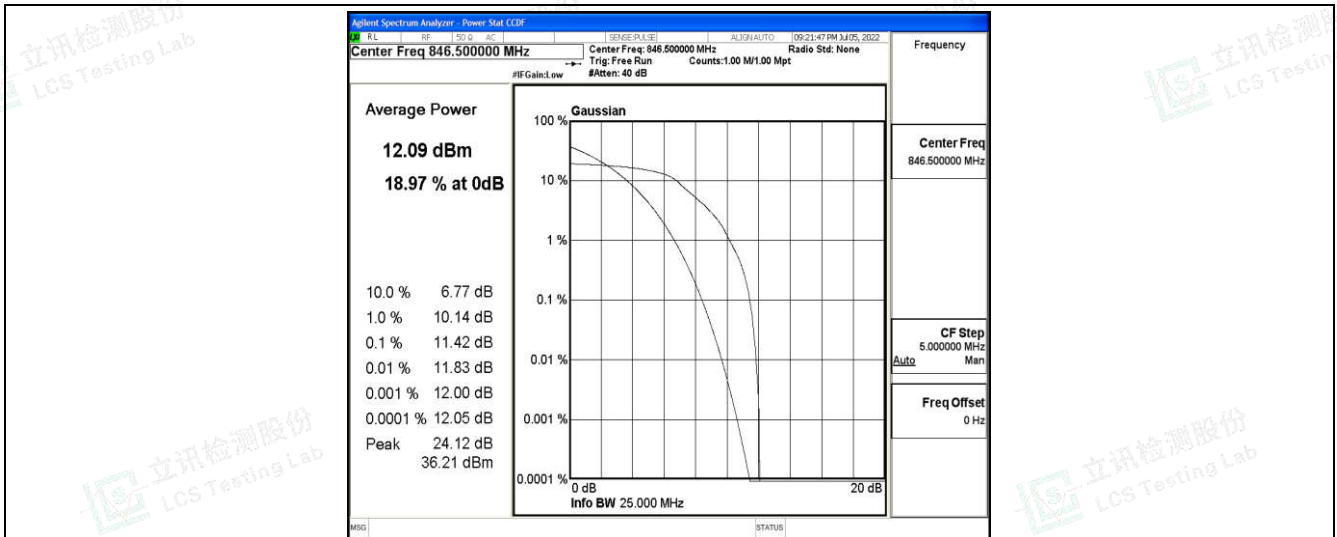
Band5-5MHz-16QAM-20425-6-0-Low-11.04-<=13-PASS



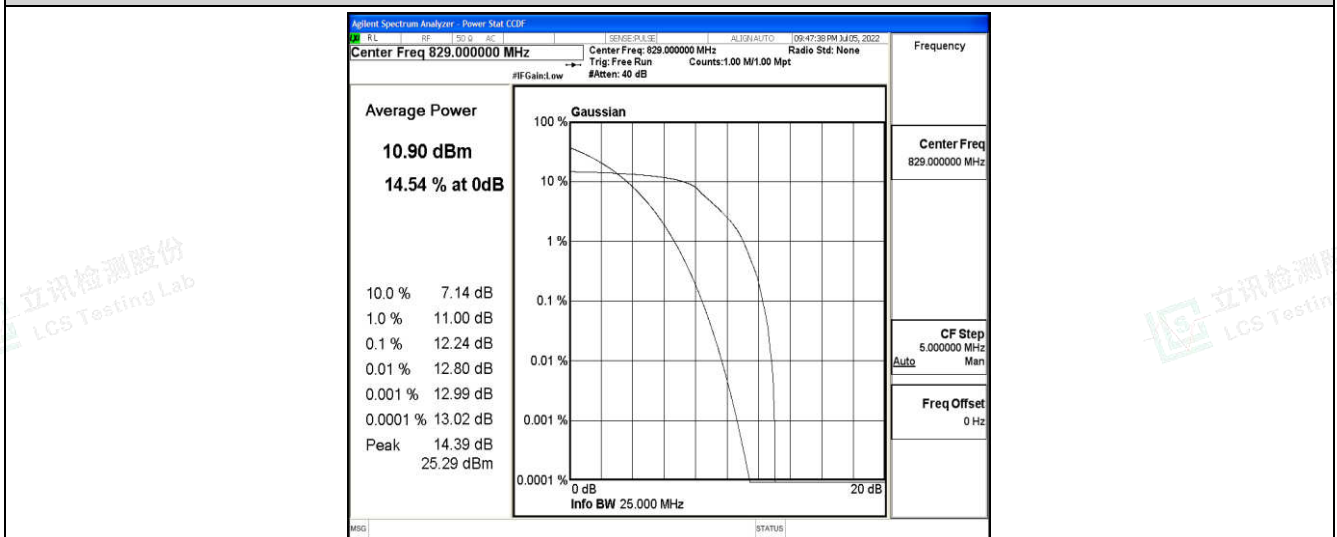
Band5-5MHz-16QAM-20525-6-0-Low-9.15-<=13-PASS



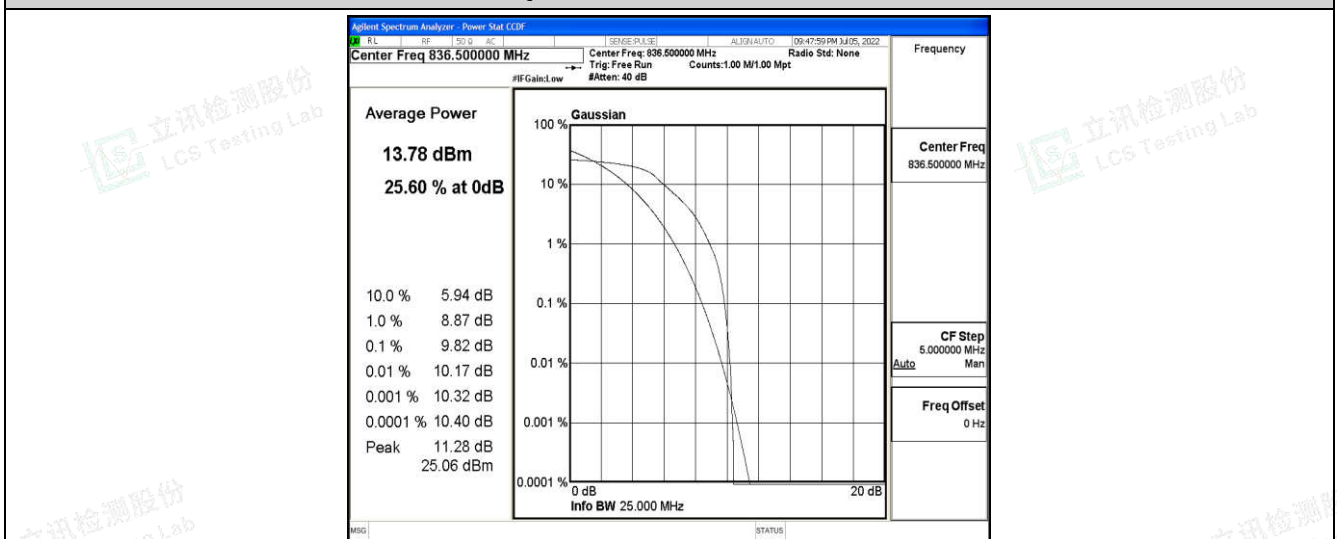
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Band5-5MHz-16QAM-20625-6-0-High-11.42-<=13-PASS



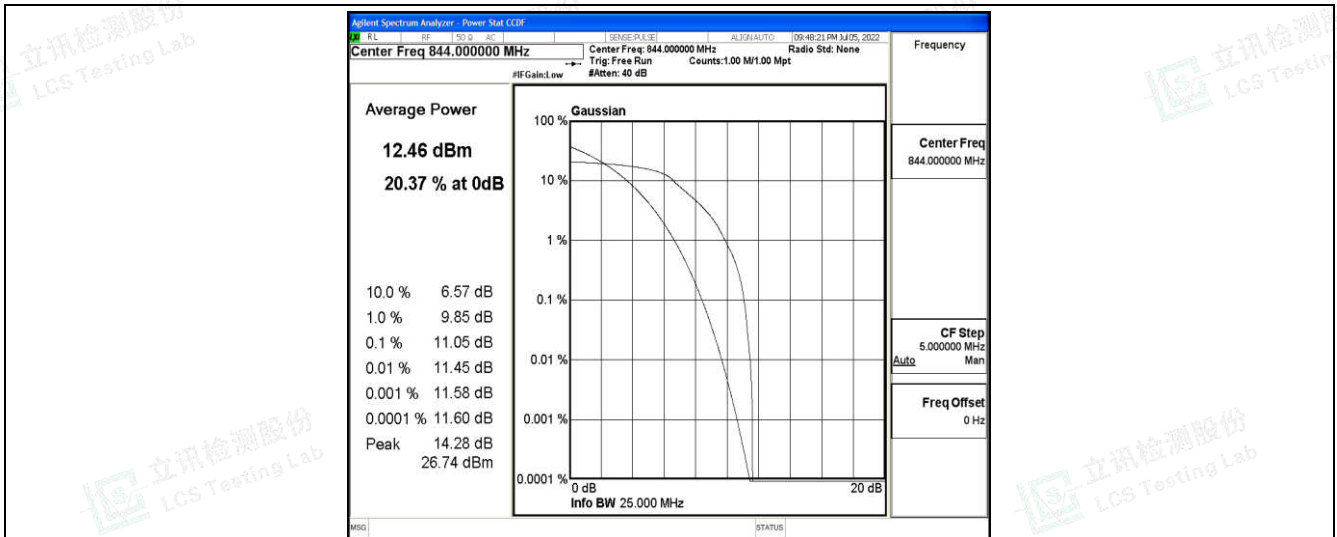
Band5-10MHz-QPSK-20450-6-0-Low-12.24-<=13-PASS



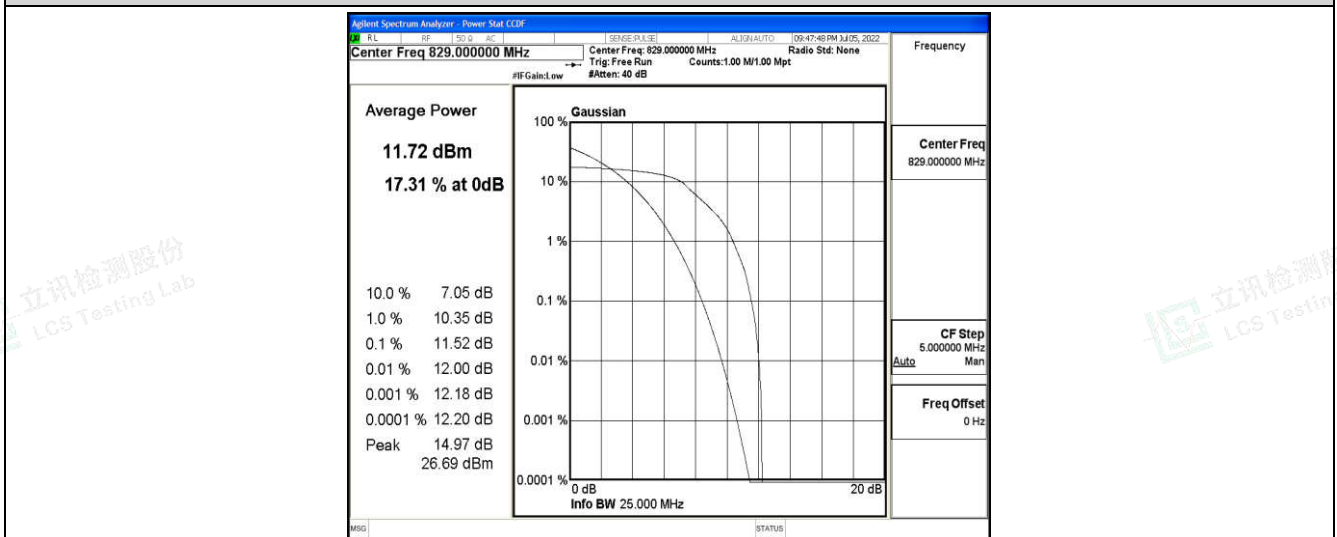
Band5-10MHz-QPSK-20525-6-0-Low-9.82-<=13-PASS



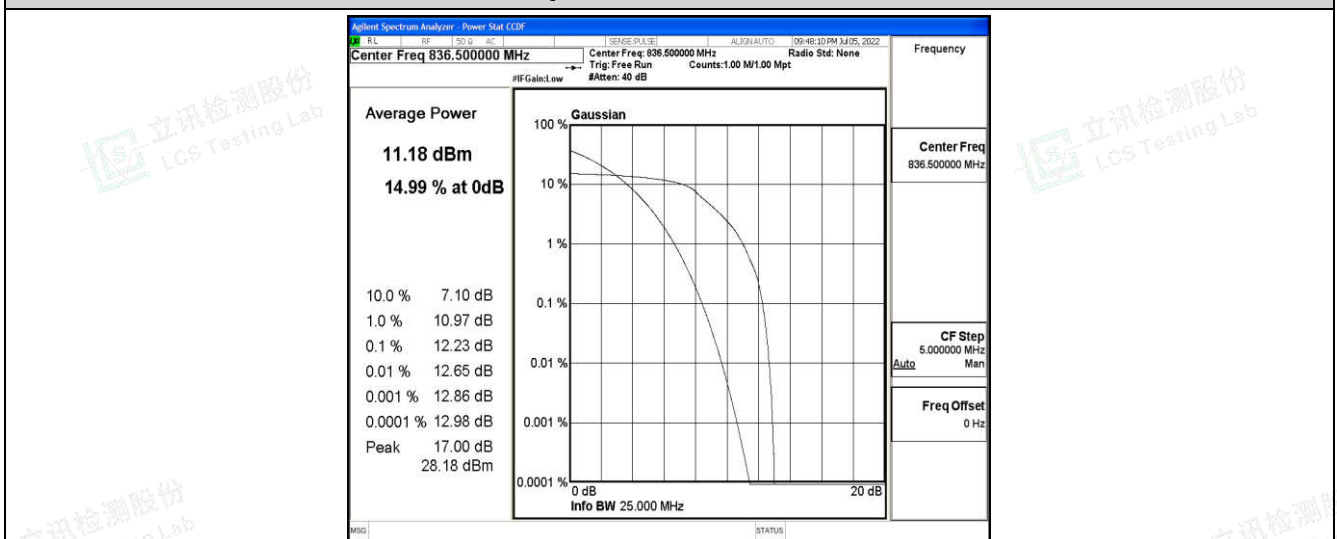
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Band5-10MHz-QPSK-20600-6-0-High-11.05-<=13-PASS

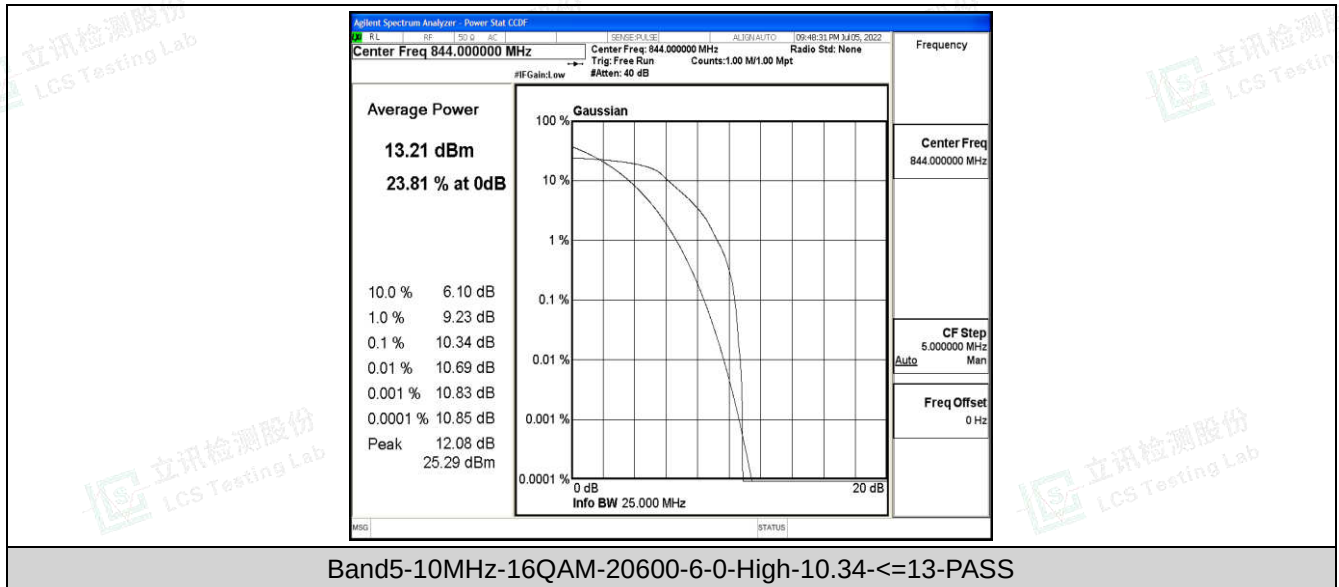


Band5-10MHz-16QAM-20450-6-0-Low-11.52-<=13-PASS



Band5-10MHz-16QAM-20525-6-0-Low-12.23-<=13-PASS







H.3 26dB Bandwidth and Occupied Bandwidth for M1

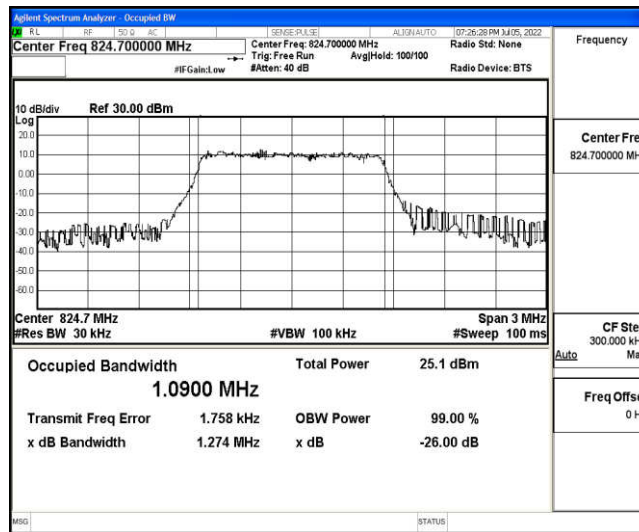
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	1.0900	1.274	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	1.0857	1.268	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	1.0997	1.283	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	1.0873	1.271	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	1.0918	1.266	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	1.1026	1.265	PASS
Band5	3MHz	20415	QPSK	6	0	Low	1.1060	1.309	PASS
Band5	3MHz	20525	QPSK	6	0	Low	1.1207	1.333	PASS
Band5	3MHz	20635	QPSK	6	0	High	1.1099	1.426	PASS
Band5	3MHz	20415	16QAM	6	0	Low	1.1151	1.313	PASS
Band5	3MHz	20525	16QAM	6	0	Low	1.1185	1.309	PASS
Band5	3MHz	20635	16QAM	6	0	High	1.1185	1.428	PASS
Band5	5MHz	20425	QPSK	6	0	Low	1.1826	1.528	PASS
Band5	5MHz	20525	QPSK	6	0	Low	1.1622	1.579	PASS
Band5	5MHz	20625	QPSK	6	0	High	1.1960	1.412	PASS
Band5	5MHz	20425	16QAM	6	0	Low	1.1766	1.522	PASS
Band5	5MHz	20525	16QAM	6	0	Low	1.1698	1.492	PASS
Band5	5MHz	20625	16QAM	6	0	High	1.2006	1.429	PASS
Band5	10MHz	20450	QPSK	6	0	Low	1.3461	2.302	PASS
Band5	10MHz	20525	QPSK	6	0	Low	1.3174	2.007	PASS
Band5	10MHz	20600	QPSK	6	0	High	1.3495	1.843	PASS
Band5	10MHz	20450	16QAM	6	0	Low	1.3483	2.244	PASS
Band5	10MHz	20525	16QAM	6	0	Low	1.3440	2.033	PASS
Band5	10MHz	20600	16QAM	6	0	High	1.3301	1.725	PASS

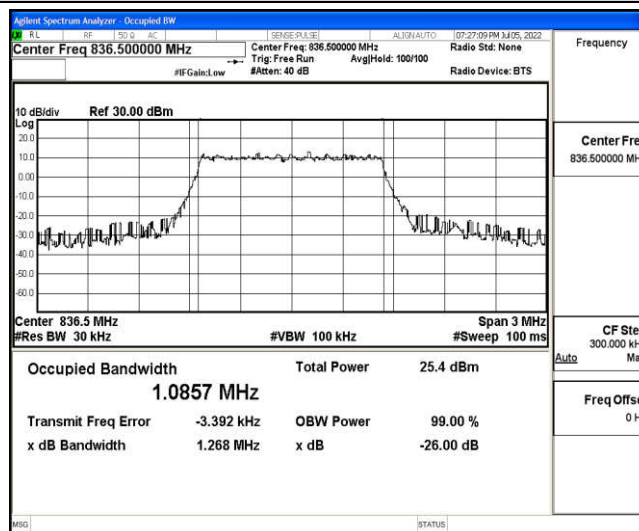




Test Graphs

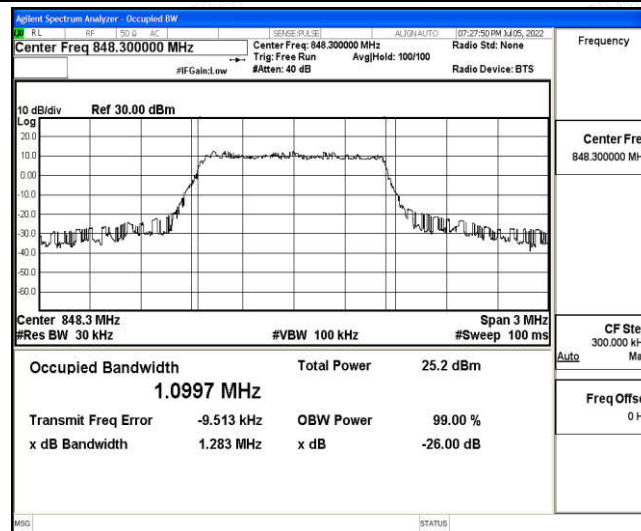


Band5-1.4MHz-QPSK-20407-6-0-Low-1.0900-1.274-PASS

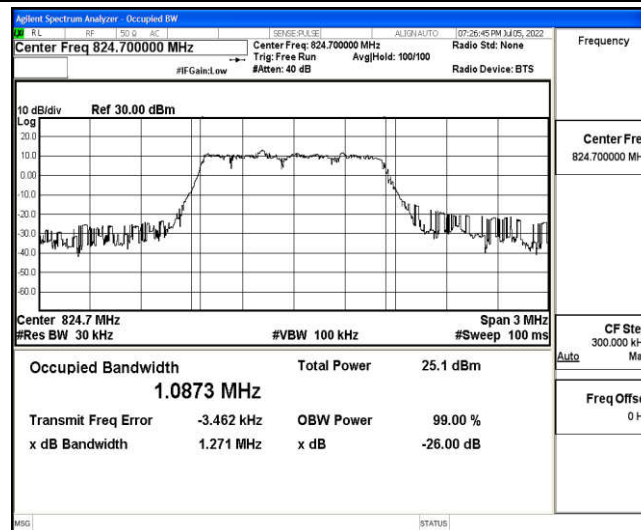


Band5-1.4MHz-QPSK-20525-6-0-Low-1.0857-1.268-PASS

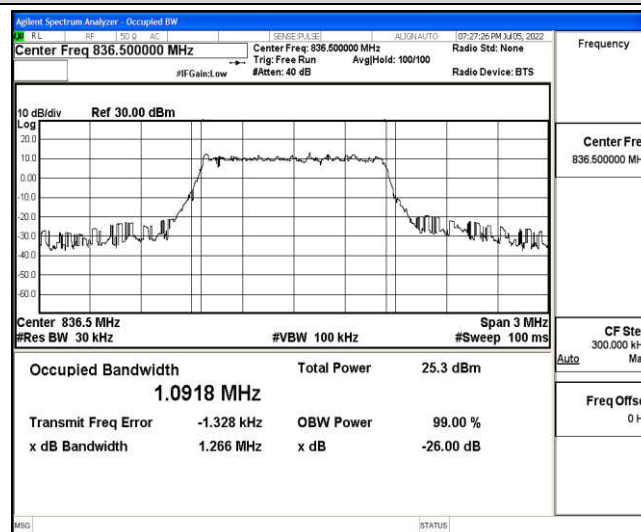




Band5-1.4MHz-QPSK-20643-6-0-High-1.0997-1.283-PASS



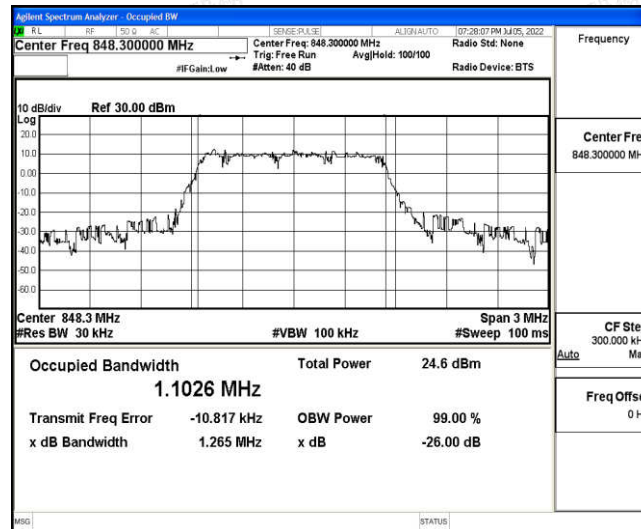
Band5-1.4MHz-16QAM-20407-6-0-Low-1.0873-1.271-PASS



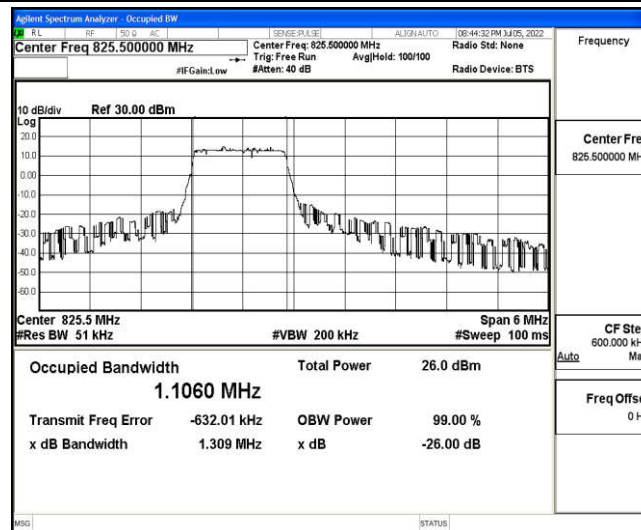
Band5-1.4MHz-16QAM-20525-6-0-Low-1.0918-1.266-PASS



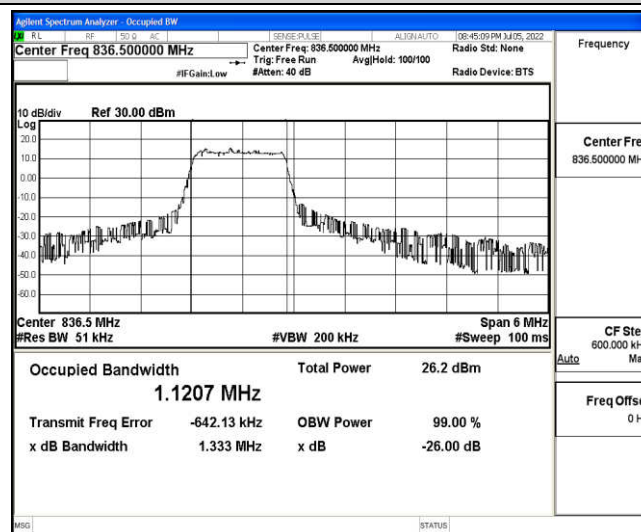
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Band5-1.4MHz-16QAM-20643-6-0-High-1.1026-1.265-PASS

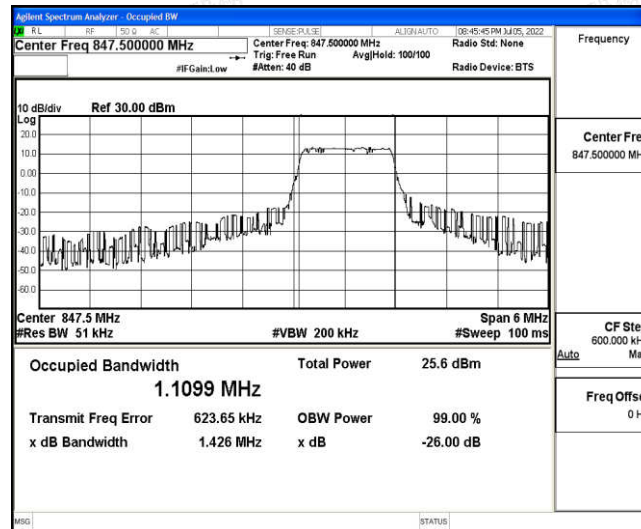


Band5-3MHz-QPSK-20415-6-0-Low-1.1060-1.309-PASS

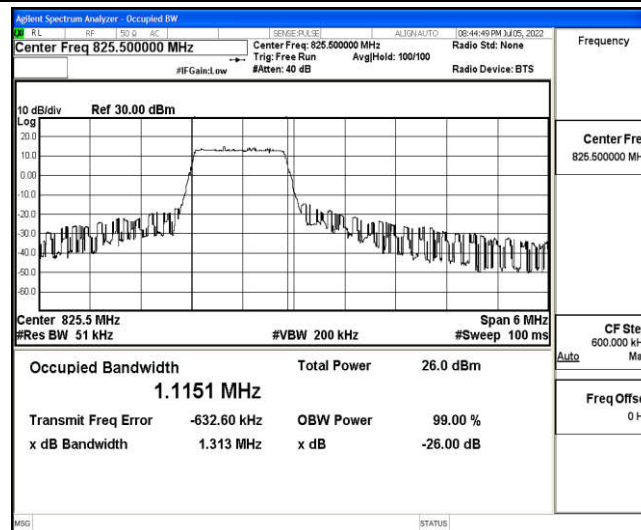


Band5-3MHz-QPSK-20525-6-0-Low-1.1207-1.333-PASS

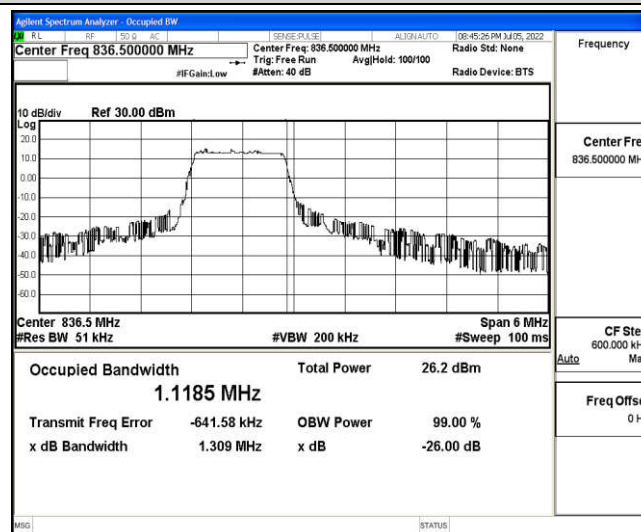




Band5-3MHz-QPSK-20635-6-0-High-1.1099-1.426-PASS



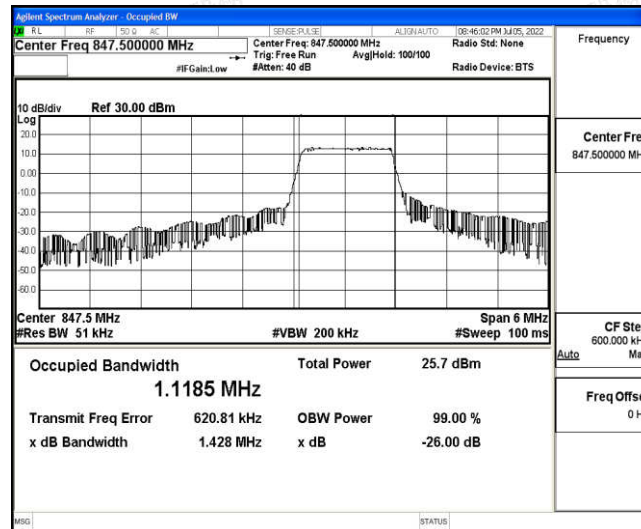
Band5-3MHz-16QAM-20415-6-0-Low-1.1151-1.313-PASS



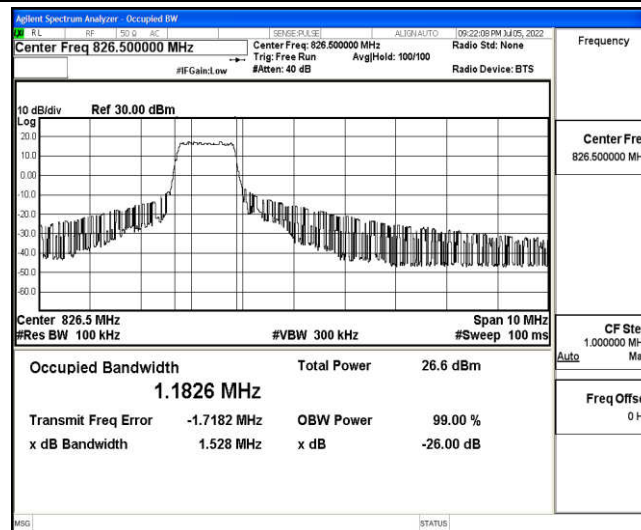
Band5-3MHz-16QAM-20525-6-0-Low-1.1185-1.309-PASS



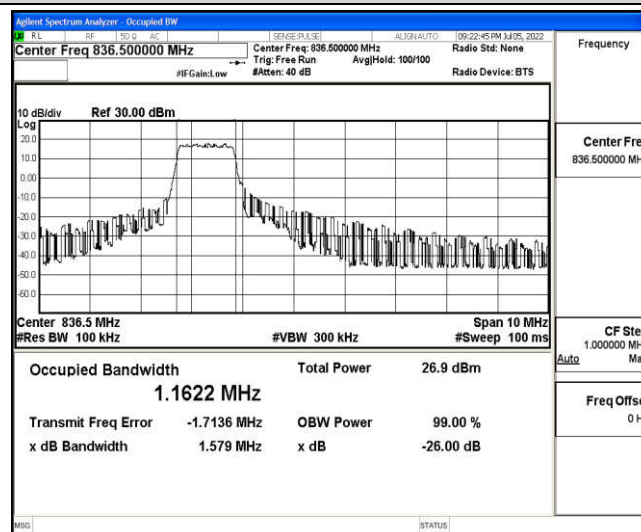
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Band5-3MHz-16QAM-20635-6-0-High-1.1185-1.428-PASS

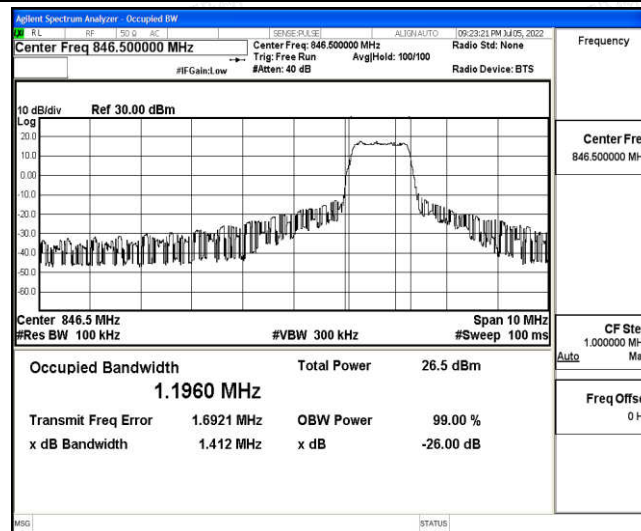


Band5-5MHz-QPSK-20425-6-0-Low-1.1826-1.528-PASS

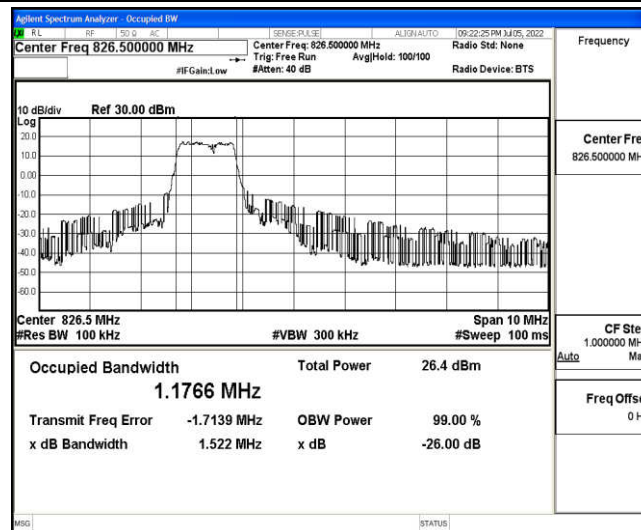


Band5-5MHz-QPSK-20525-6-0-Low-1.1622-1.579-PASS

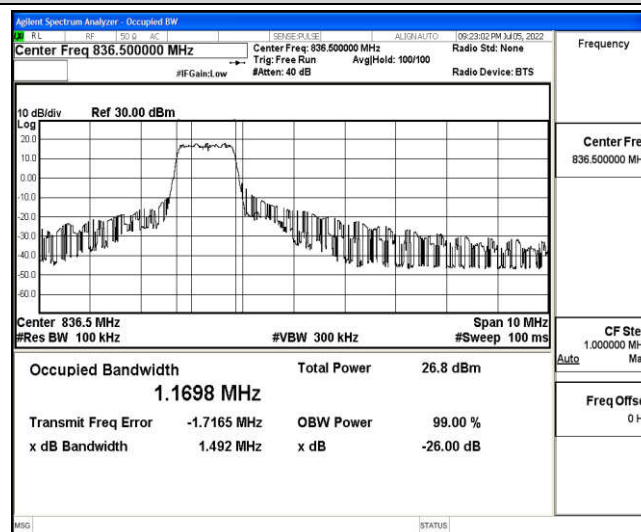




Band5-5MHz-QPSK-20625-6-0-High-1.1960-1.412-PASS

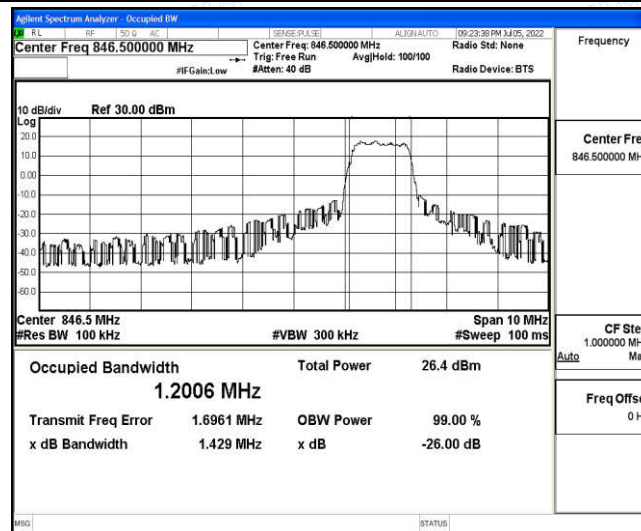


Band5-5MHz-16QAM-20425-6-0-Low-1.1766-1.522-PASS

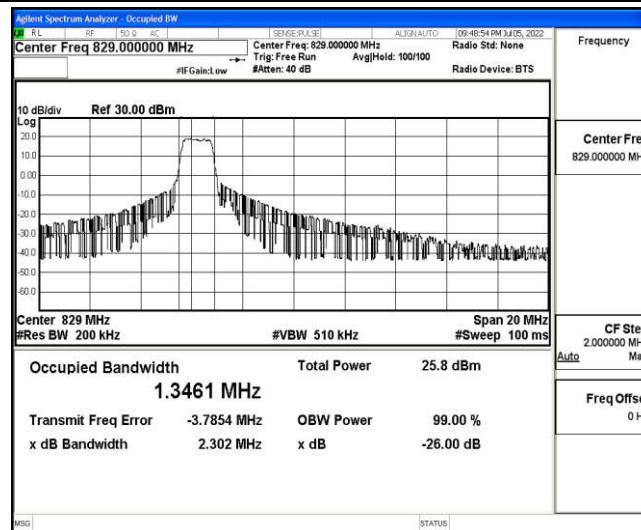


Band5-5MHz-16QAM-20525-6-0-Low-1.1698-1.492-PASS

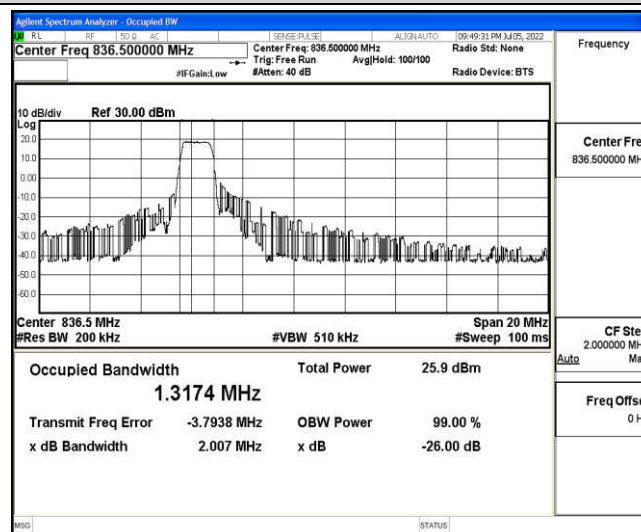




Band5-5MHz-16QAM-20625-6-0-High-1.2006-1.429-PASS

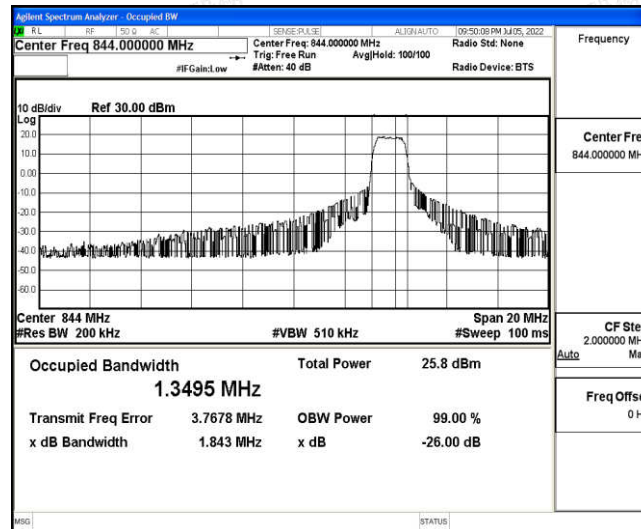


Band5-10MHz-QPSK-20450-6-0-Low-1.3461-2.302-PASS

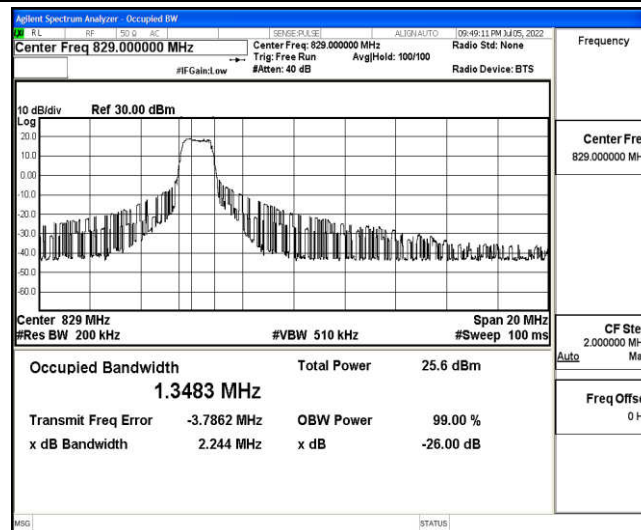


Band5-10MHz-QPSK-20525-6-0-Low-1.3174-2.007-PASS

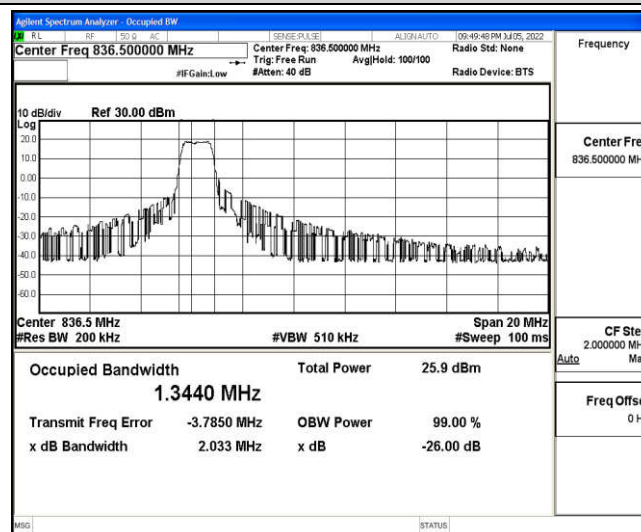




Band5-10MHz-QPSK-20600-6-0-High-1.3495-1.843-PASS

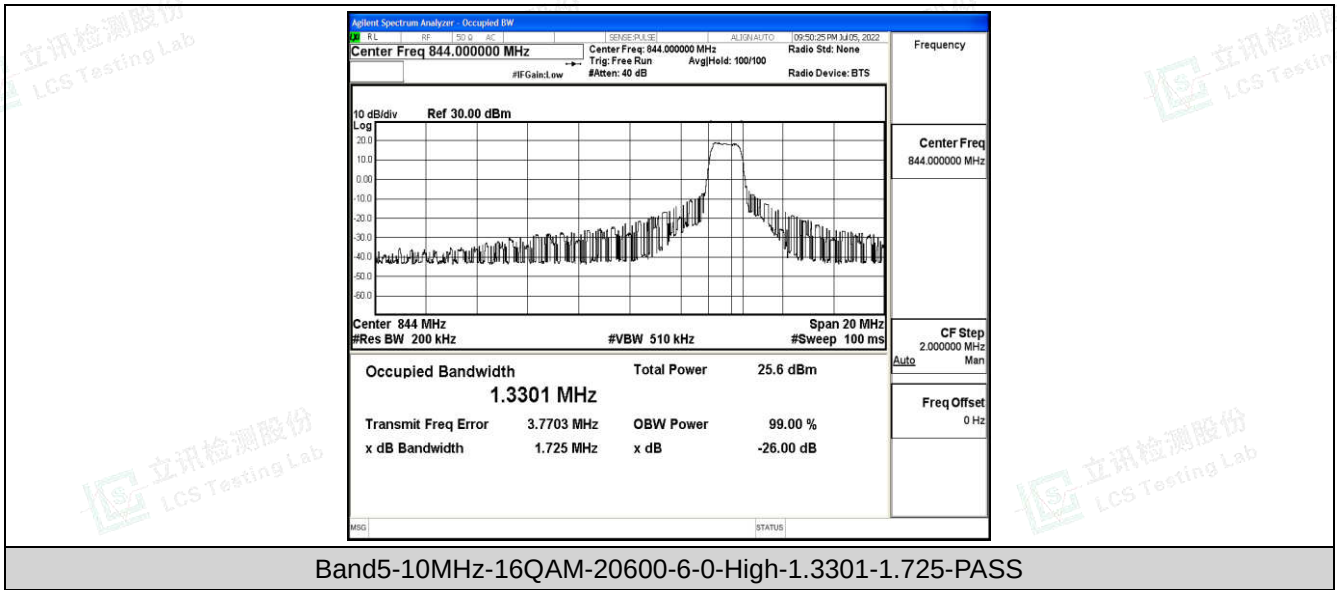


Band5-10MHz-16QAM-20450-6-0-Low-1.3483-2.244-PASS



Band5-10MHz-16QAM-20525-6-0-Low-1.3440-2.033-PASS





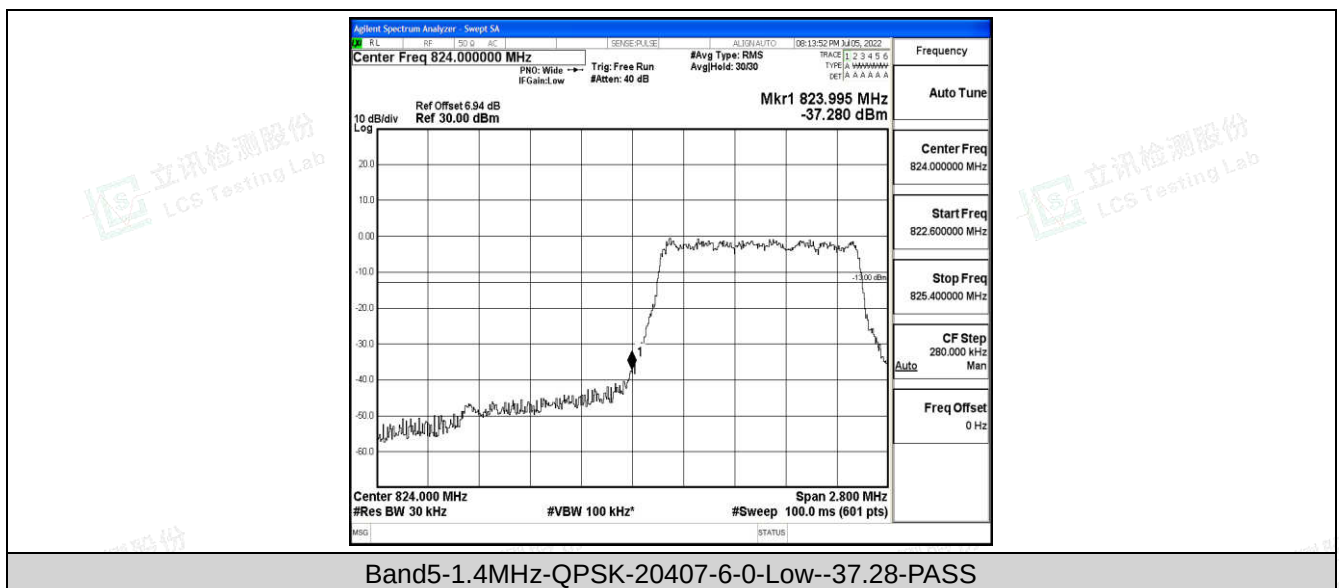


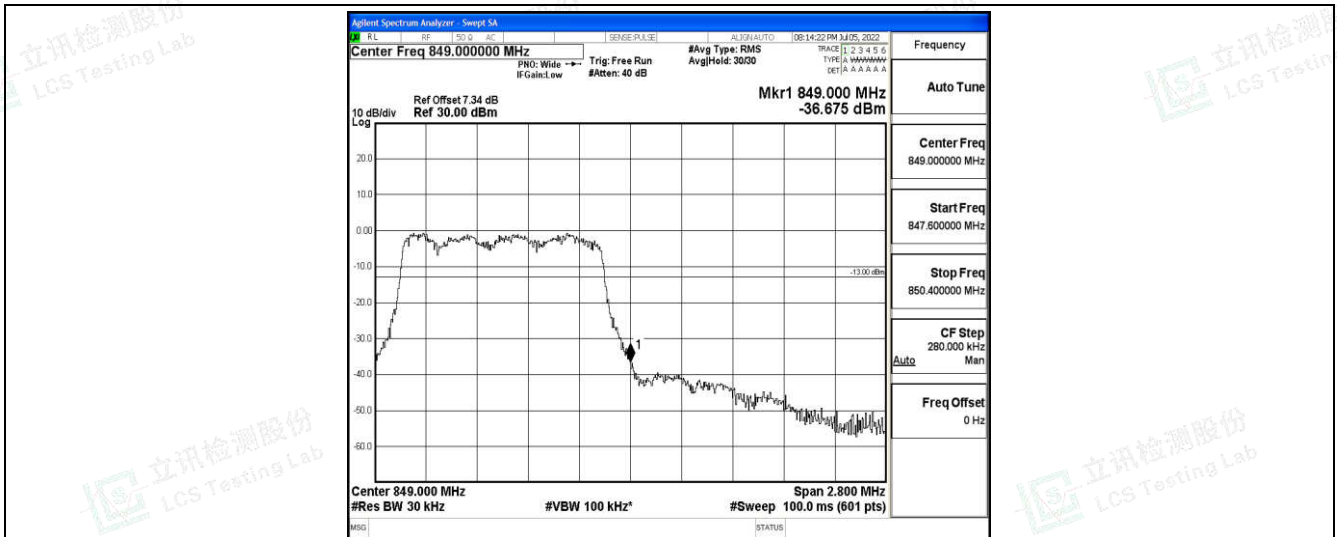
H.4 Band Edge for M1

Test Result

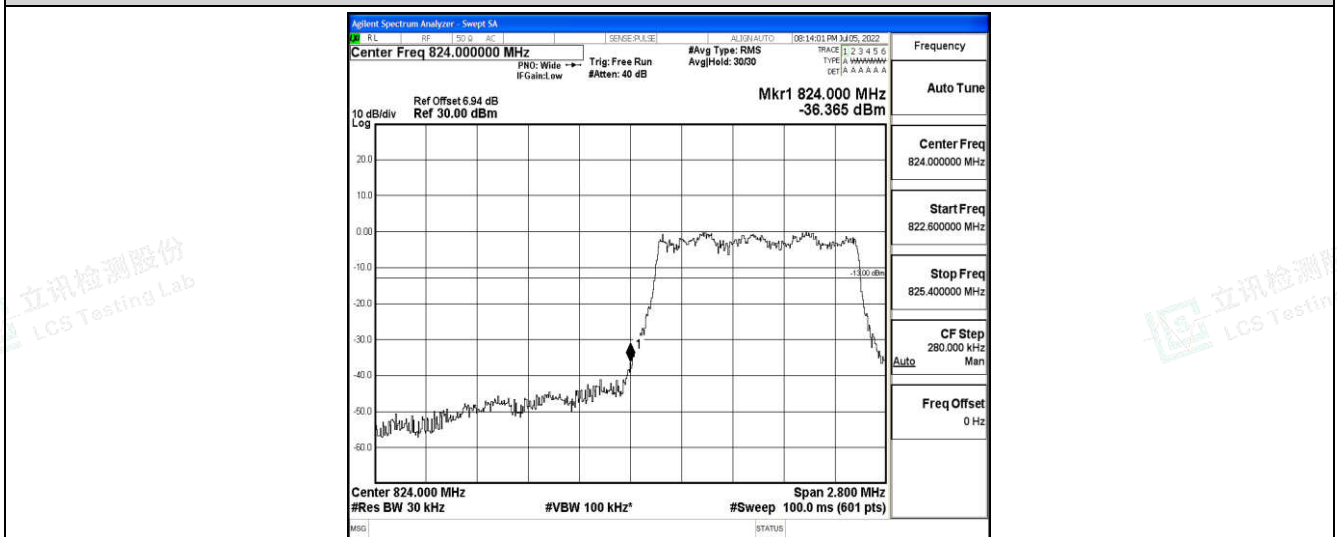
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	-37.28	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	-36.68	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	-36.37	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	-36.04	PASS
Band5	3MHz	20415	QPSK	6	0	Low	-39.69	PASS
Band5	3MHz	20635	QPSK	6	0	High	-37.48	PASS
Band5	3MHz	20415	16QAM	6	0	Low	-40.21	PASS
Band5	3MHz	20635	16QAM	6	0	High	-36.47	PASS
Band5	5MHz	20425	QPSK	6	0	Low	-33.81	PASS
Band5	5MHz	20625	QPSK	6	0	High	-31.42	PASS
Band5	5MHz	20425	16QAM	6	0	Low	-34.13	PASS
Band5	5MHz	20625	16QAM	6	0	High	-33.39	PASS
Band5	10MHz	20450	QPSK	6	0	Low	-36.34	PASS
Band5	10MHz	20600	QPSK	6	0	High	-33.83	PASS
Band5	10MHz	20450	16QAM	6	0	Low	-36.57	PASS
Band5	10MHz	20600	16QAM	6	0	High	-33.93	PASS

Test Graphs

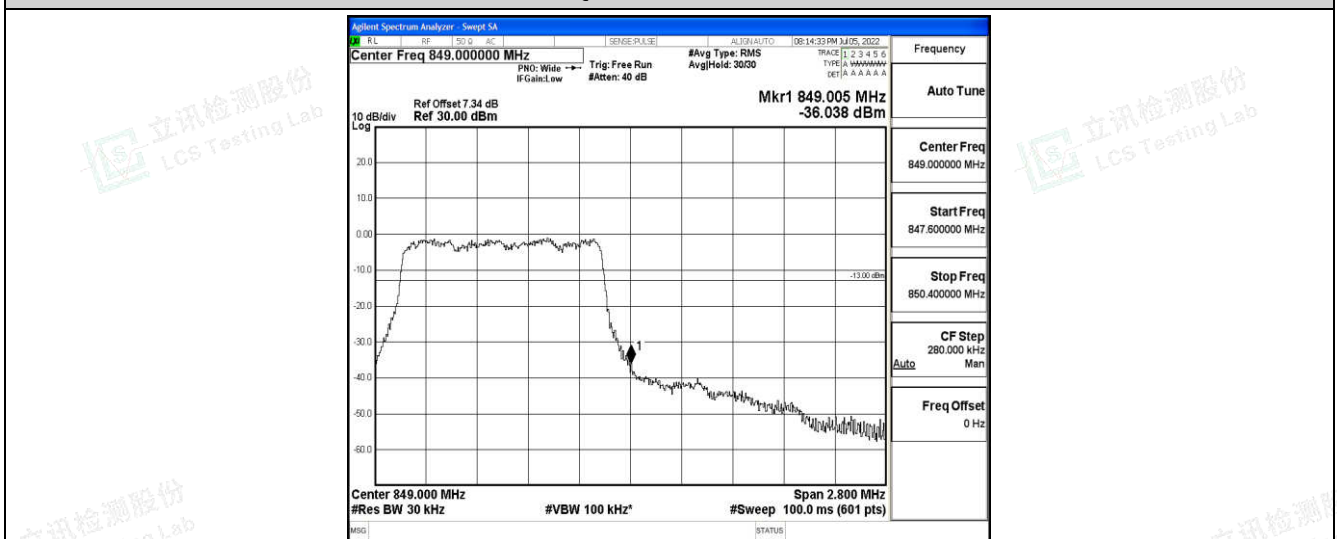




Band5-1.4MHz-QPSK-20643-6-0-High--36.68-PASS



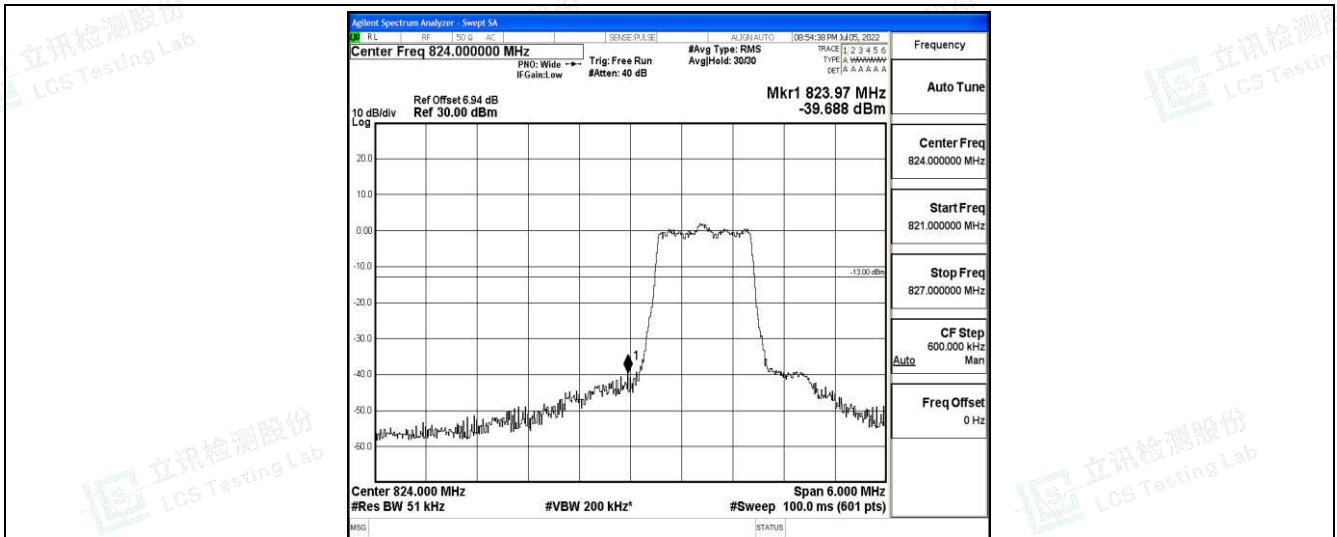
Band5-1.4MHz-16QAM-20407-6-0-Low--36.37-PASS



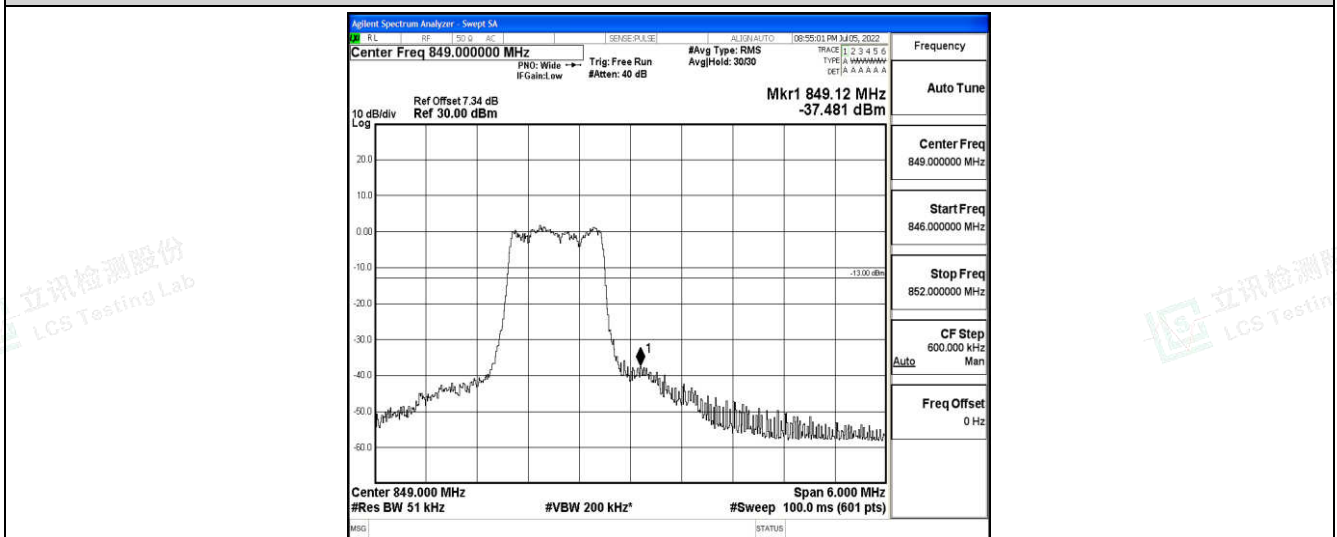
Band5-1.4MHz-16QAM-20643-6-0-High--36.04-PASS



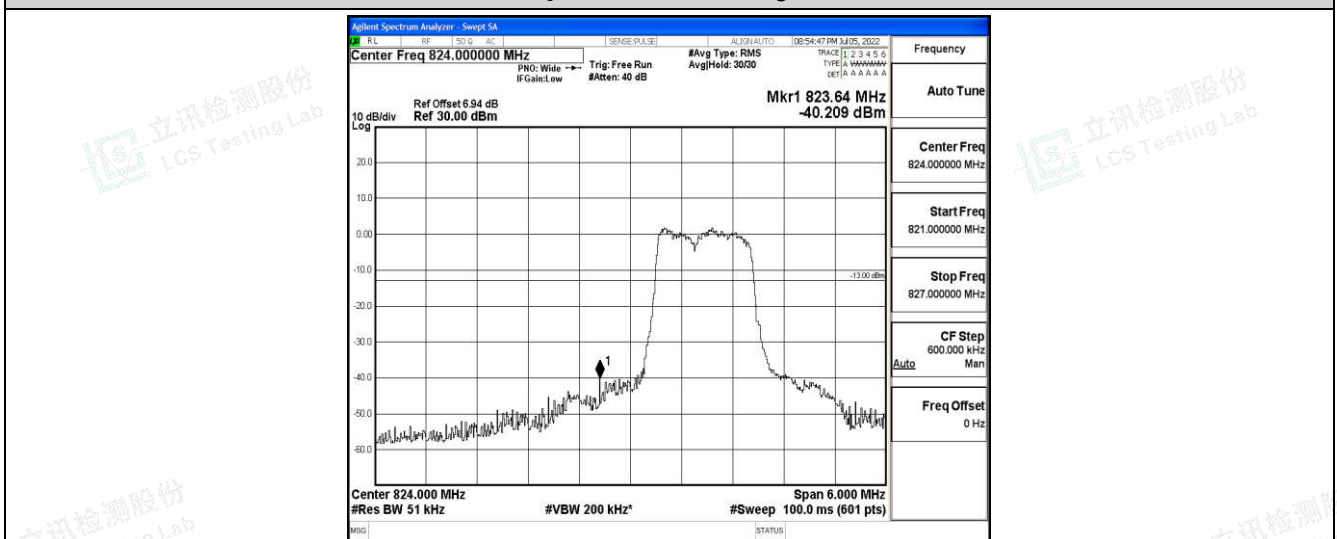
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Band5-3MHz-QPSK-20415-6-0-Low--39.69-PASS



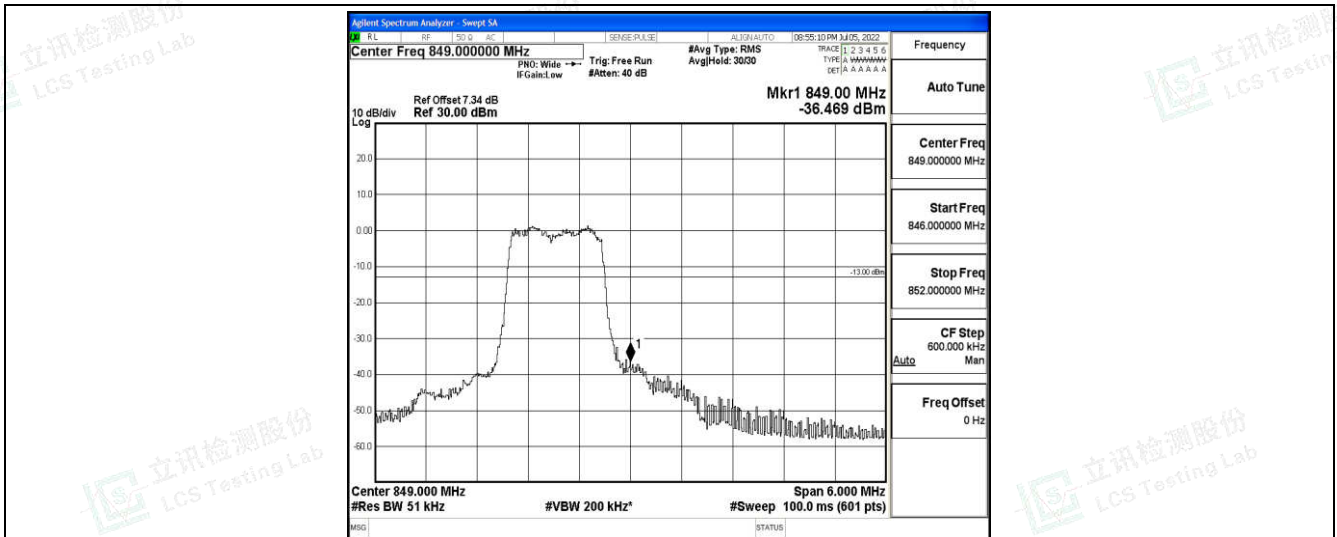
Band5-3MHz-QPSK-20635-6-0-High--37.48-PASS



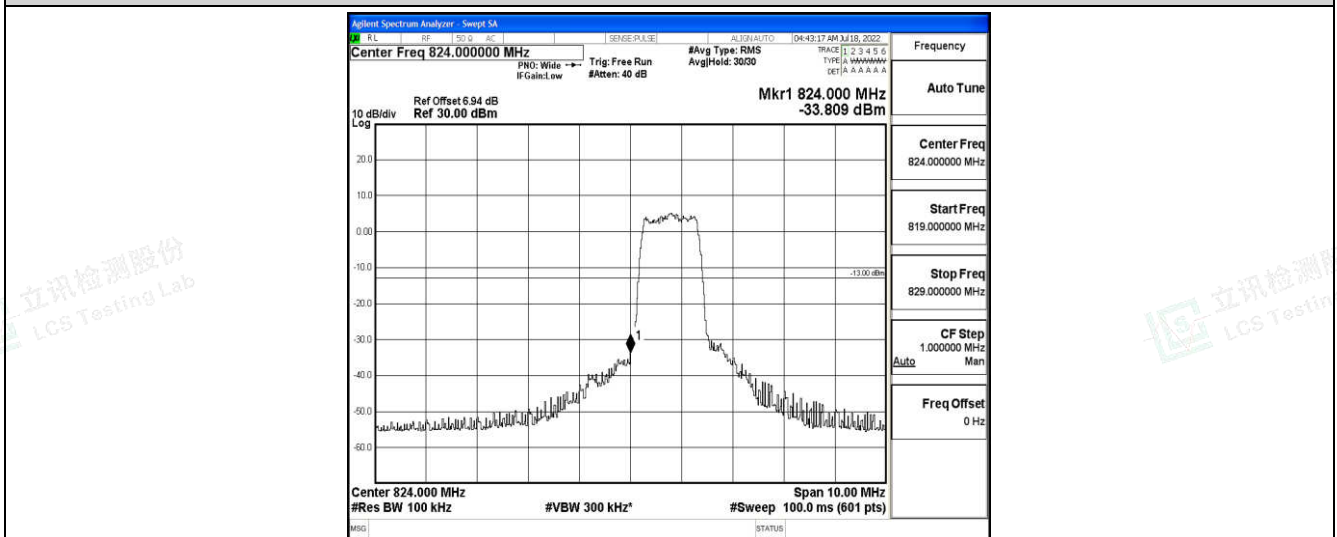
Band5-3MHz-16QAM-20415-6-0-Low--40.21-PASS



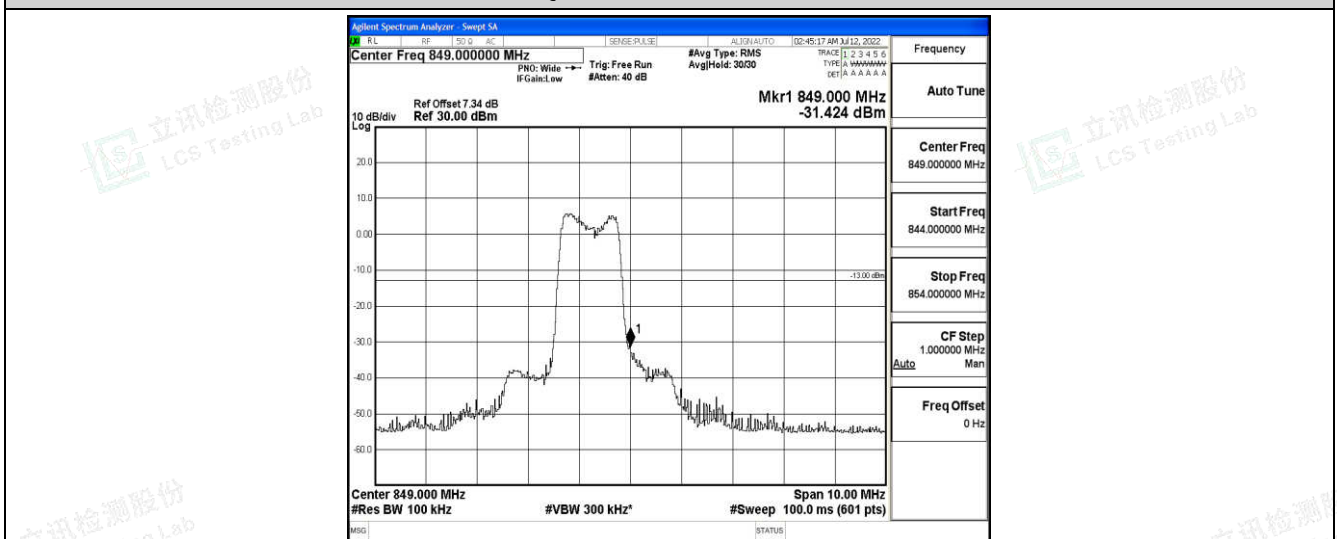
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Band5-3MHz-16QAM-20635-6-0-High--36.47-PASS



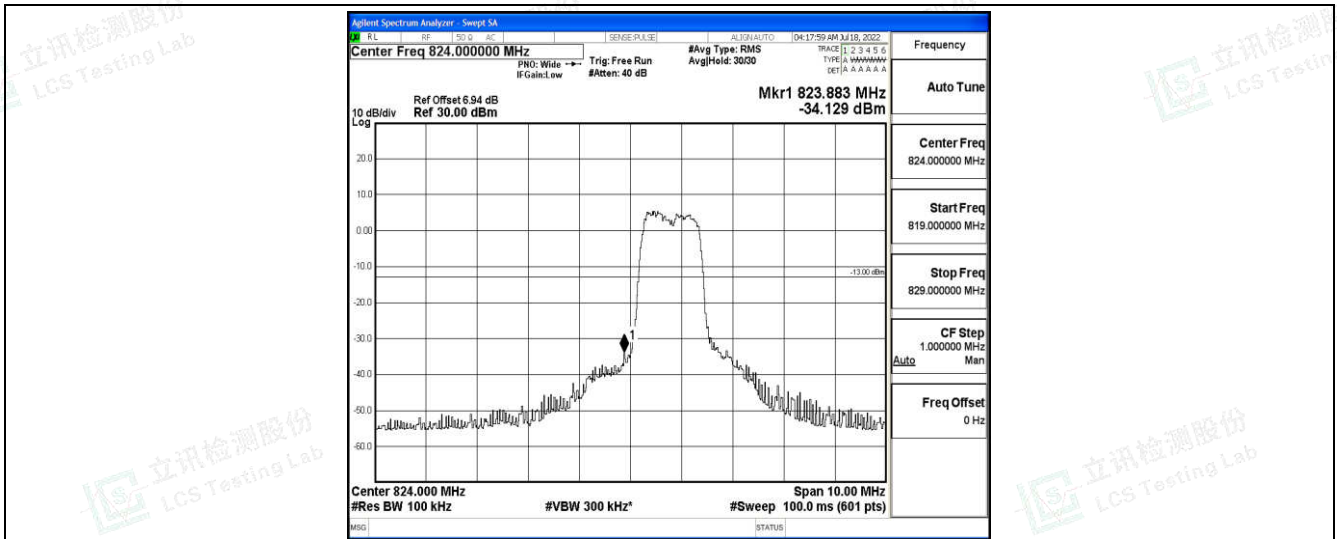
Band5-5MHz-QPSK-20425-6-0-Low--33.81-PASS



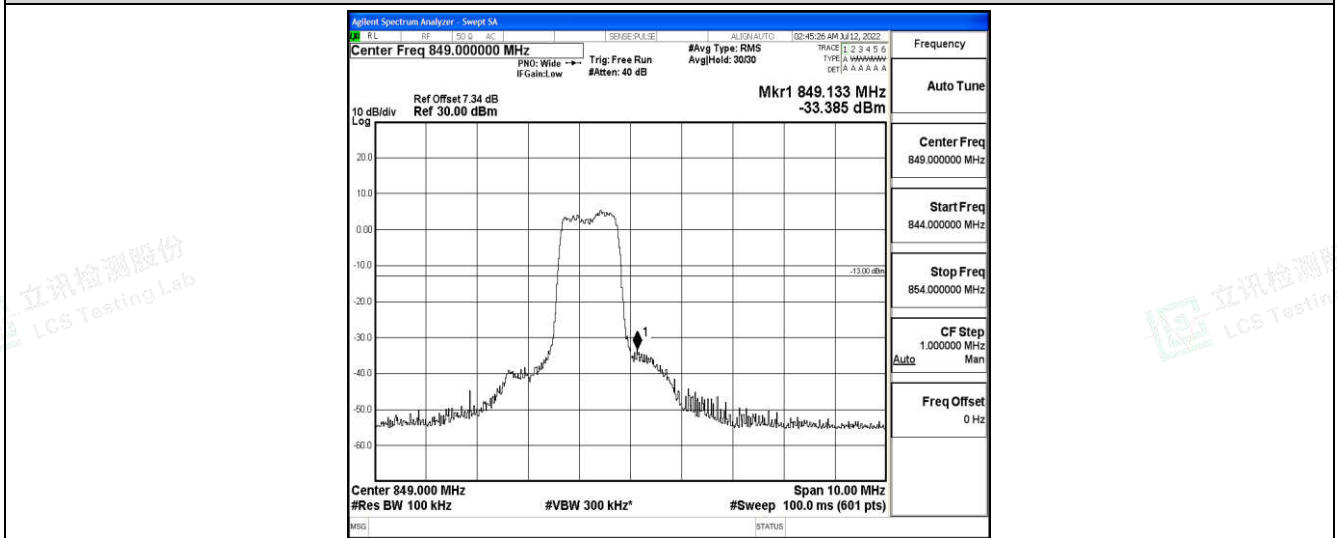
Band5-5MHz-QPSK-20625-6-0-High--31.42-PASS



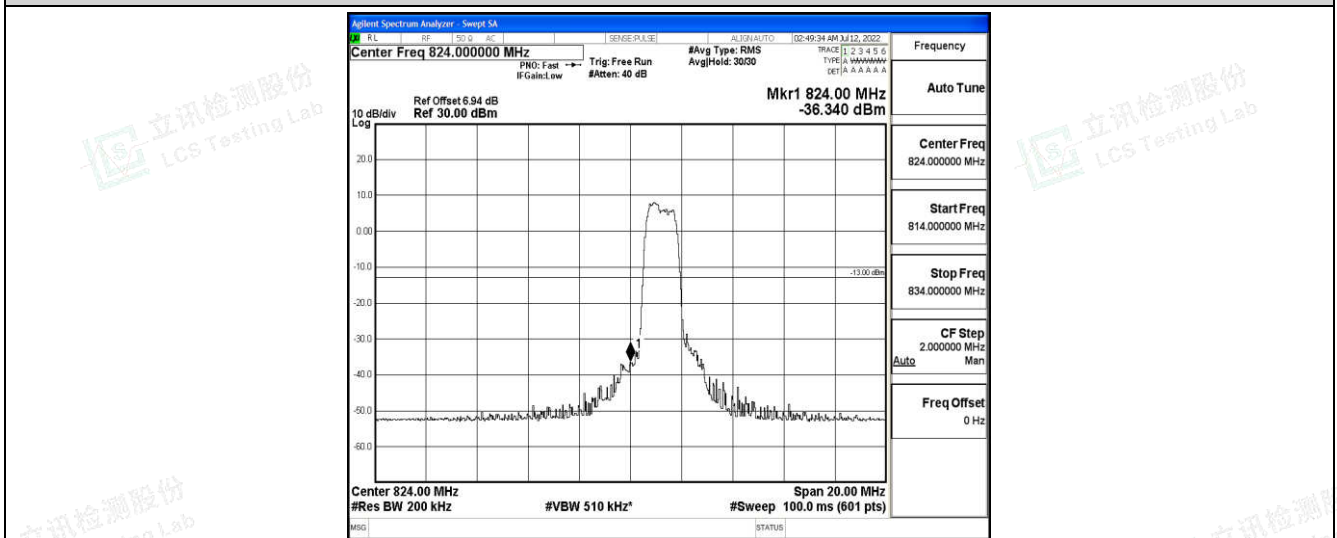
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Band5-5MHz-16QAM-20425-6-0-Low--34.13-PASS



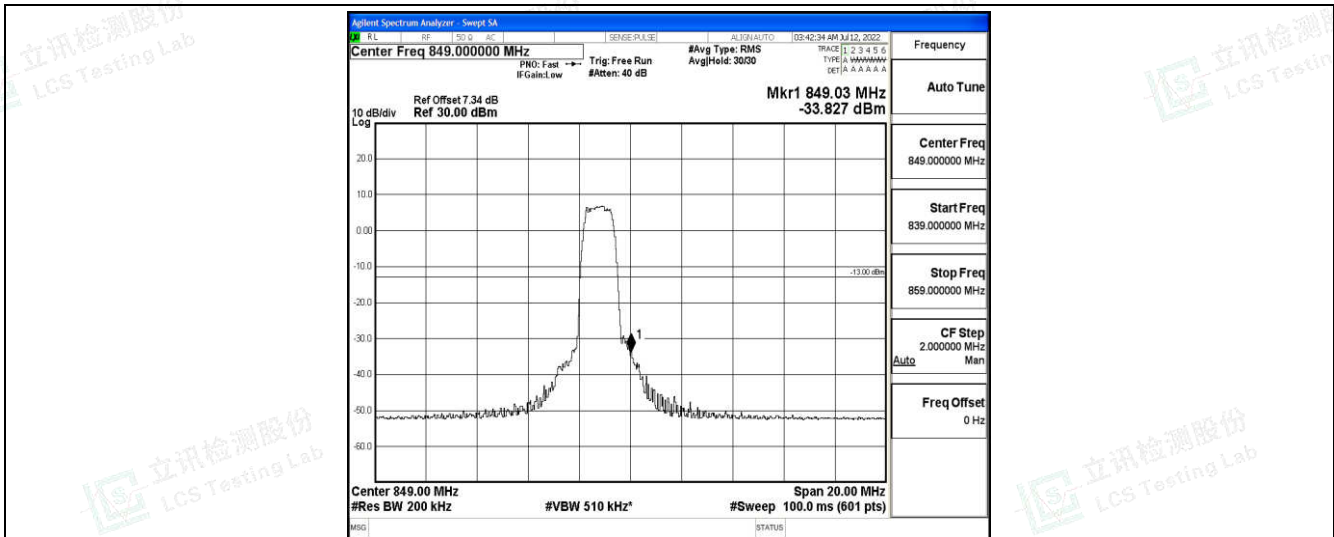
Band5-5MHz-16QAM-20625-6-0-High--33.39-PASS



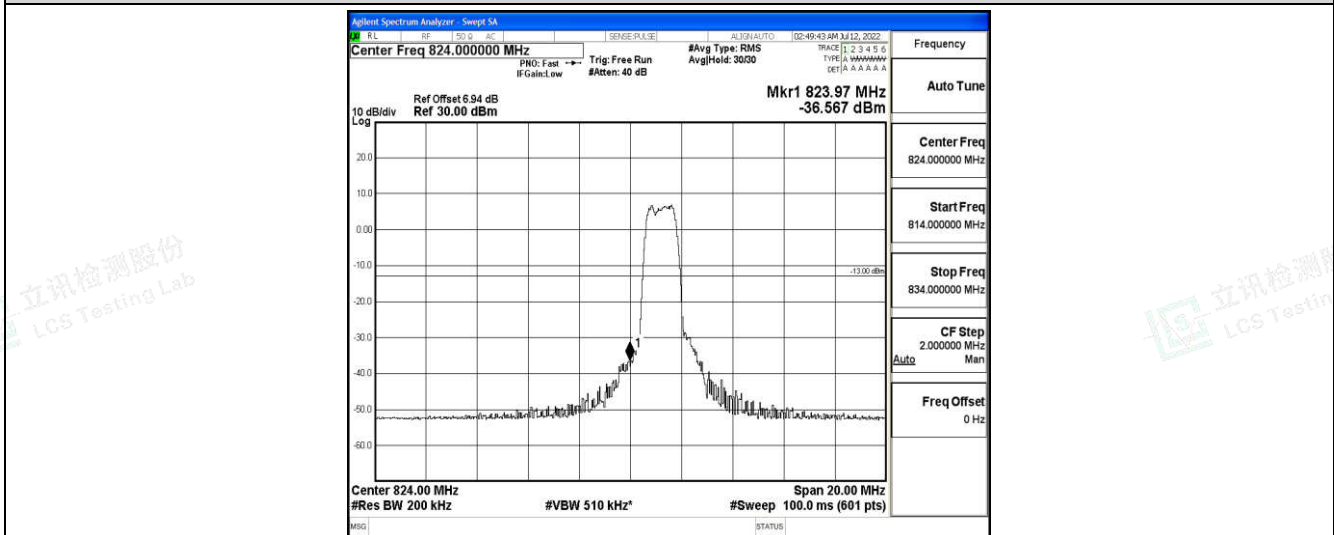
Band5-10MHz-QPSK-20450-6-0-Low--36.34-PASS



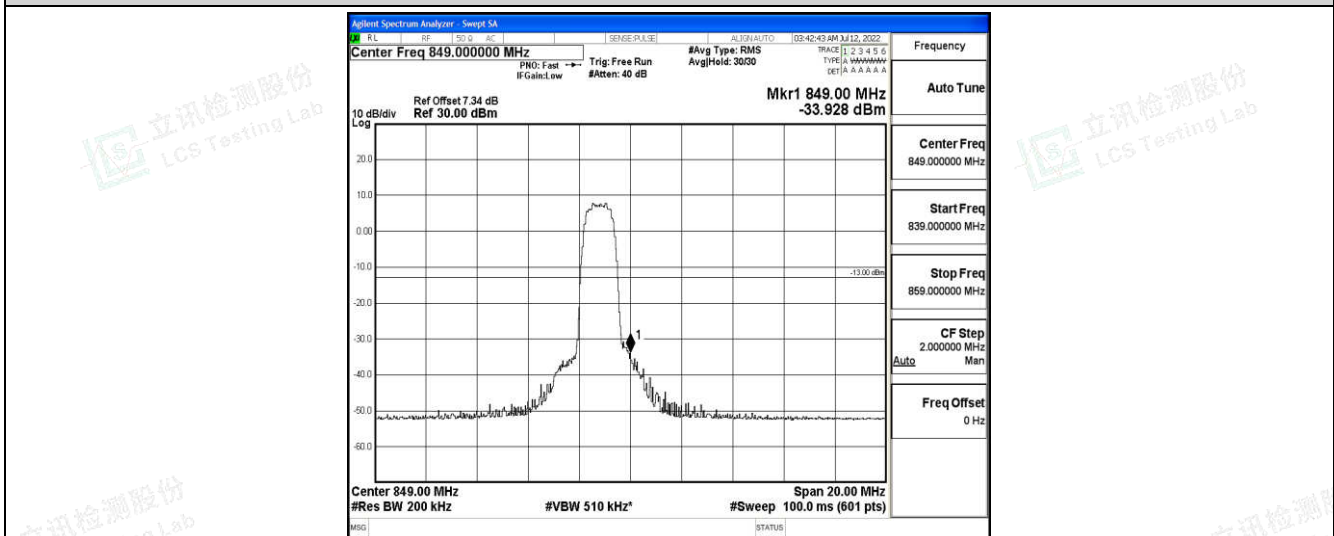
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Band5-10MHz-QPSK-20600-6-0-High--33.83-PASS



Band5-10MHz-16QAM-20450-6-0-Low--36.57-PASS



Band5-10MHz-16QAM-20600-6-0-High--33.93-PASS



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H.5 Conducted Spurious Emission for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	30	1000	-36.62	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	1000	5000	-43.7	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	5000	12000	-59.56	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	12000	26500	-44.7	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	30	1000	-37.1	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	1000	5000	-43.37	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	5000	12000	-59.02	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	12000	26500	-44.31	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	30	1000	-36.56	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	1000	5000	-43.31	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	5000	12000	-59.08	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	12000	26500	-44.21	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	30	1000	-37.21	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	1000	5000	-43.66	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	5000	12000	-59.52	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	12000	26500	-44.64	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	30	1000	-37.45	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	1000	5000	-43.33	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	5000	12000	-59.08	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	12000	26500	-44.26	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	30	1000	-37.57	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	1000	5000	-43.32	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	5000	12000	-58.96	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	12000	26500	-44.33	PASS
Band5	3MHz	20415	QPSK	1	0	Low	30	1000	-37.22	PASS
Band5	3MHz	20415	QPSK	1	0	Low	1000	5000	-43.77	PASS
Band5	3MHz	20415	QPSK	1	0	Low	5000	12000	-59.4	PASS
Band5	3MHz	20415	QPSK	1	0	Low	12000	26500	-44.64	PASS
Band5	3MHz	20525	QPSK	1	0	Low	30	1000	-37.11	PASS
Band5	3MHz	20525	QPSK	1	0	Low	1000	5000	-43.24	PASS
Band5	3MHz	20525	QPSK	1	0	Low	5000	12000	-59.16	PASS
Band5	3MHz	20525	QPSK	1	0	Low	12000	26500	-44.13	PASS
Band5	3MHz	20635	QPSK	1	0	High	30	1000	-35.26	PASS
Band5	3MHz	20635	QPSK	1	0	High	1000	5000	-43.03	PASS





Band5	3MHz	20635	QPSK	1	0	High	5000	12000	-59.11	PASS
Band5	3MHz	20635	QPSK	1	0	High	12000	26500	-44.23	PASS
Band5	3MHz	20415	16QAM	1	0	Low	30	1000	-37.89	PASS
Band5	3MHz	20415	16QAM	1	0	Low	1000	5000	-43.7	PASS
Band5	3MHz	20415	16QAM	1	0	Low	5000	12000	-59.2	PASS
Band5	3MHz	20415	16QAM	1	0	Low	12000	26500	-44.6	PASS
Band5	3MHz	20525	16QAM	1	0	Low	30	1000	-37.19	PASS
Band5	3MHz	20525	16QAM	1	0	Low	1000	5000	-43.24	PASS
Band5	3MHz	20525	16QAM	1	0	Low	5000	12000	-59.07	PASS
Band5	3MHz	20525	16QAM	1	0	Low	12000	26500	-44.43	PASS
Band5	3MHz	20635	16QAM	1	0	High	30	1000	-36.46	PASS
Band5	3MHz	20635	16QAM	1	0	High	1000	5000	-43.34	PASS
Band5	3MHz	20635	16QAM	1	0	High	5000	12000	-59.05	PASS
Band5	3MHz	20635	16QAM	1	0	High	12000	26500	-44.31	PASS
Band5	5MHz	20425	QPSK	1	0	Low	30	1000	-37.63	PASS
Band5	5MHz	20425	QPSK	1	0	Low	1000	5000	-43.64	PASS
Band5	5MHz	20425	QPSK	1	0	Low	5000	12000	-59.32	PASS
Band5	5MHz	20425	QPSK	1	0	Low	12000	26500	-44.66	PASS
Band5	5MHz	20525	QPSK	1	0	Low	30	1000	-36.55	PASS
Band5	5MHz	20525	QPSK	1	0	Low	1000	5000	-43.18	PASS
Band5	5MHz	20525	QPSK	1	0	Low	5000	12000	-58.89	PASS
Band5	5MHz	20525	QPSK	1	0	Low	12000	26500	-44.21	PASS
Band5	5MHz	20625	QPSK	1	0	High	30	1000	-36.88	PASS
Band5	5MHz	20625	QPSK	1	0	High	1000	5000	-43.32	PASS
Band5	5MHz	20625	QPSK	1	0	High	5000	12000	-59	PASS
Band5	5MHz	20625	QPSK	1	0	High	12000	26500	-44.02	PASS
Band5	5MHz	20425	16QAM	1	0	Low	30	1000	-37.24	PASS
Band5	5MHz	20425	16QAM	1	0	Low	1000	5000	-43.48	PASS
Band5	5MHz	20425	16QAM	1	0	Low	5000	12000	-59.49	PASS
Band5	5MHz	20425	16QAM	1	0	Low	12000	26500	-44.67	PASS
Band5	5MHz	20525	16QAM	1	0	Low	30	1000	-37.5	PASS
Band5	5MHz	20525	16QAM	1	0	Low	1000	5000	-43.24	PASS
Band5	5MHz	20525	16QAM	1	0	Low	5000	12000	-58.98	PASS
Band5	5MHz	20525	16QAM	1	0	Low	12000	26500	-44.26	PASS
Band5	5MHz	20625	16QAM	1	0	High	30	1000	-37.38	PASS
Band5	5MHz	20625	16QAM	1	0	High	1000	5000	-42.99	PASS
Band5	5MHz	20625	16QAM	1	0	High	5000	12000	-59.08	PASS
Band5	5MHz	20625	16QAM	1	0	High	12000	26500	-44.26	PASS
Band5	10MHz	20450	QPSK	1	0	Low	30	1000	-37.39	PASS
Band5	10MHz	20450	QPSK	1	0	Low	1000	5000	-43.49	PASS



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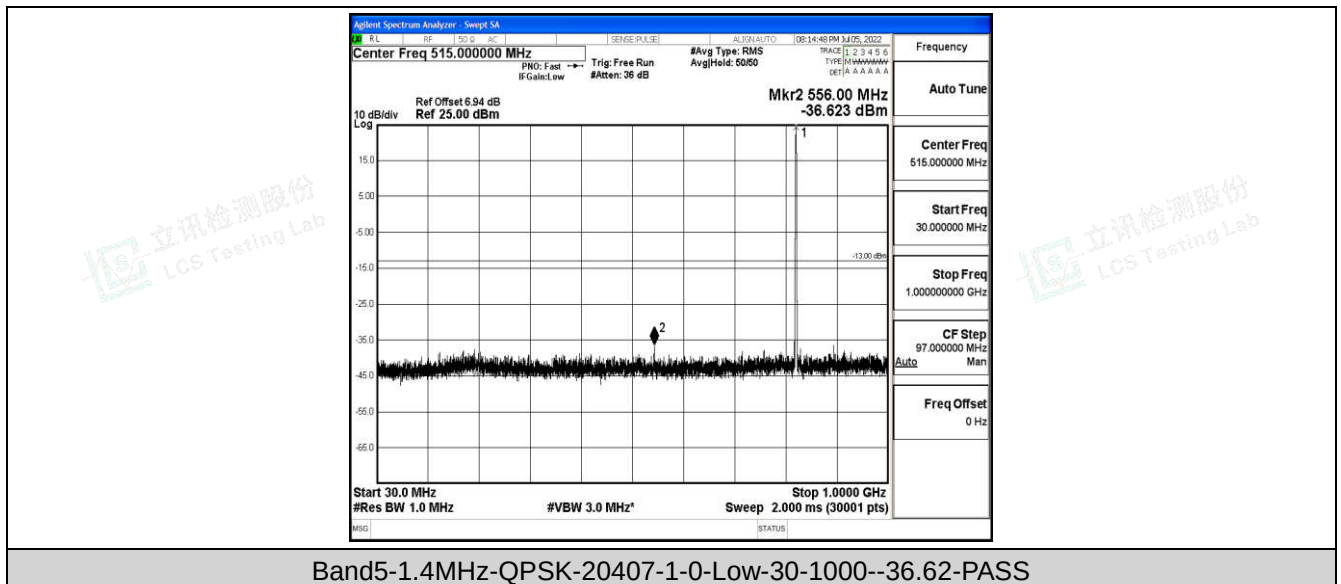
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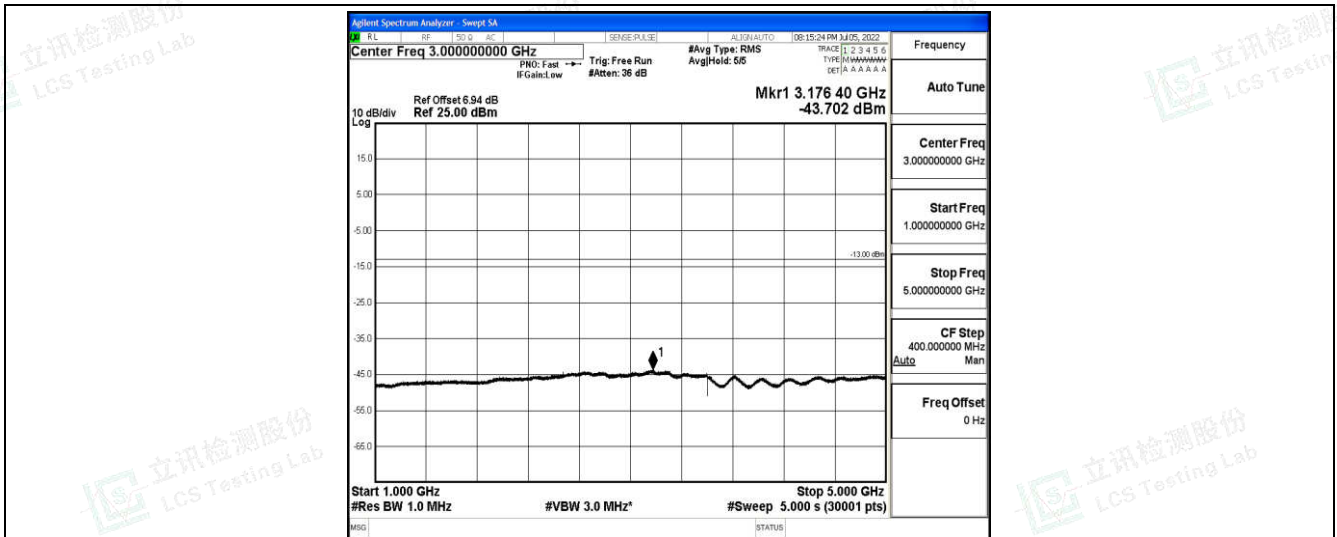
Scan code to check authenticity



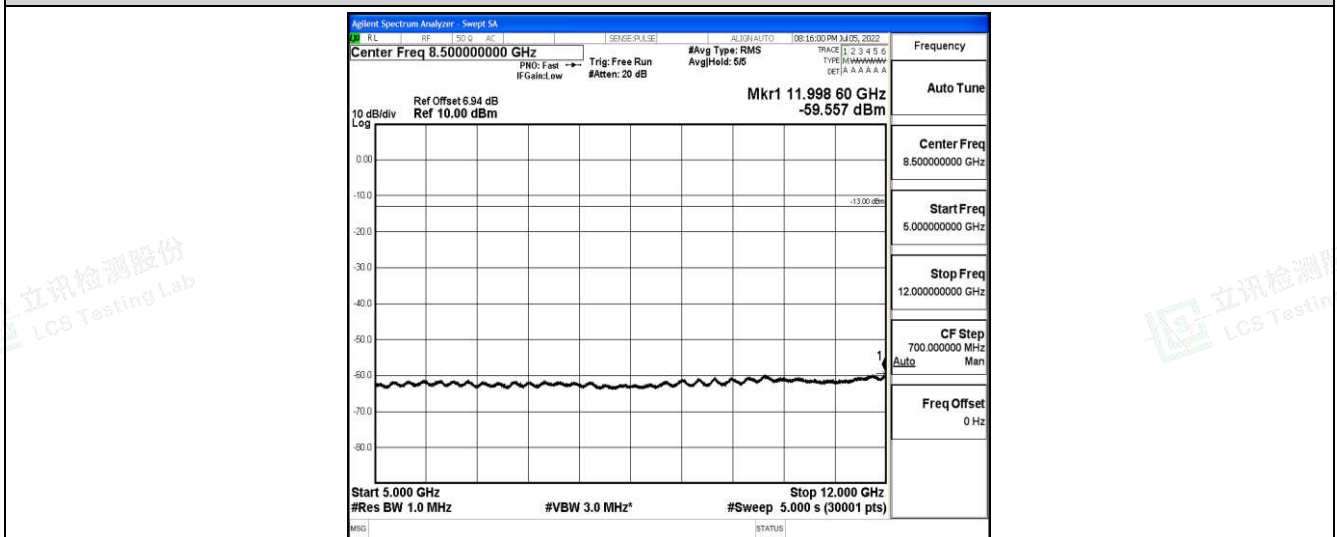
Band5	10MHz	20450	QPSK	1	0	Low	5000	12000	-59.3	PASS
Band5	10MHz	20450	QPSK	1	0	Low	12000	26500	-44.65	PASS
Band5	10MHz	20525	QPSK	1	0	Low	30	1000	-36.63	PASS
Band5	10MHz	20525	QPSK	1	0	Low	1000	5000	-43.12	PASS
Band5	10MHz	20525	QPSK	1	0	Low	5000	12000	-58.87	PASS
Band5	10MHz	20525	QPSK	1	0	Low	12000	26500	-44.14	PASS
Band5	10MHz	20600	QPSK	1	0	High	30	1000	-37.92	PASS
Band5	10MHz	20600	QPSK	1	0	High	1000	5000	-43.19	PASS
Band5	10MHz	20600	QPSK	1	0	High	5000	12000	-58.85	PASS
Band5	10MHz	20600	QPSK	1	0	High	12000	26500	-44.24	PASS
Band5	10MHz	20450	16QAM	1	0	Low	30	1000	-38.03	PASS
Band5	10MHz	20450	16QAM	1	0	Low	1000	5000	-43.68	PASS
Band5	10MHz	20450	16QAM	1	0	Low	5000	12000	-59.07	PASS
Band5	10MHz	20450	16QAM	1	0	Low	12000	26500	-44.49	PASS
Band5	10MHz	20525	16QAM	1	0	Low	30	1000	-36.98	PASS
Band5	10MHz	20525	16QAM	1	0	Low	1000	5000	-43.13	PASS
Band5	10MHz	20525	16QAM	1	0	Low	5000	12000	-58.95	PASS
Band5	10MHz	20525	16QAM	1	0	Low	12000	26500	-43.99	PASS
Band5	10MHz	20600	16QAM	1	0	High	30	1000	-36.24	PASS
Band5	10MHz	20600	16QAM	1	0	High	1000	5000	-43.05	PASS
Band5	10MHz	20600	16QAM	1	0	High	5000	12000	-58.83	PASS
Band5	10MHz	20600	16QAM	1	0	High	12000	26500	-44.29	PASS

Test Graphs

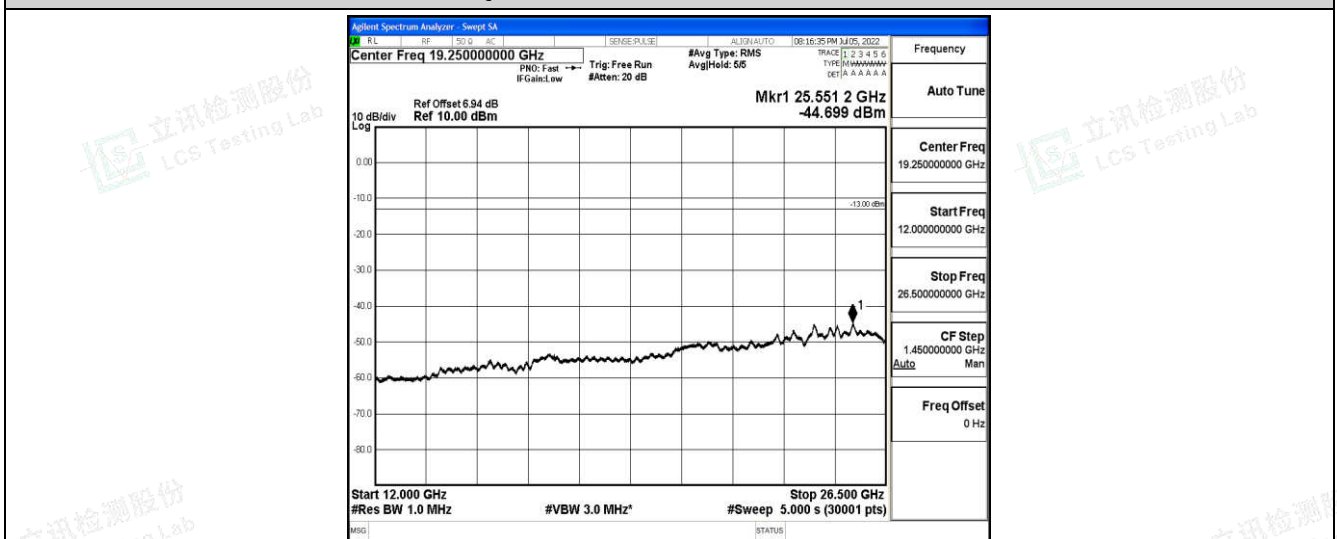




Band5-1.4MHz-QPSK-20407-1-0-Low-1000-5000--43.7-PASS



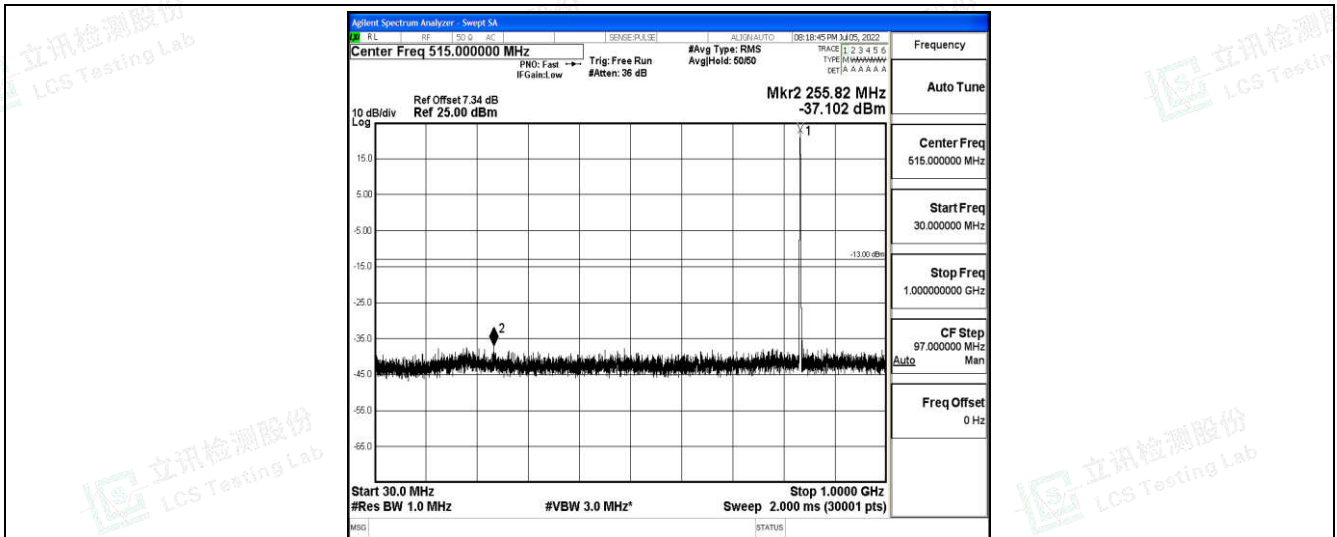
Band5-1.4MHz-QPSK-20407-1-0-Low-5000-12000--59.56-PASS



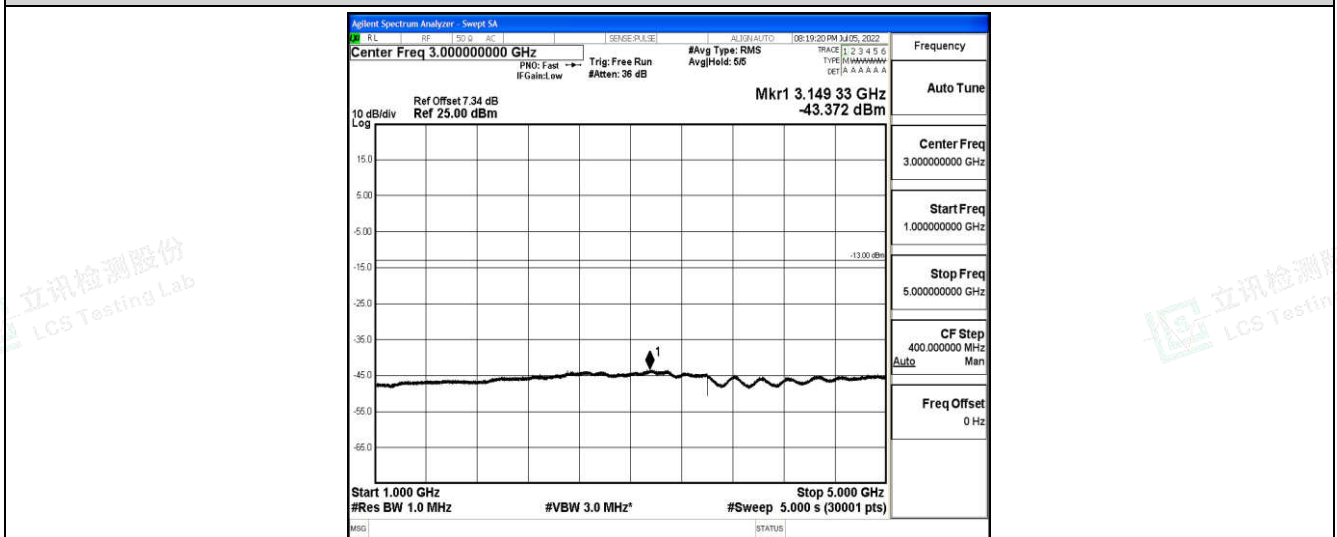
Band5-1.4MHz-QPSK-20407-1-0-Low-12000-26500--44.7-PASS



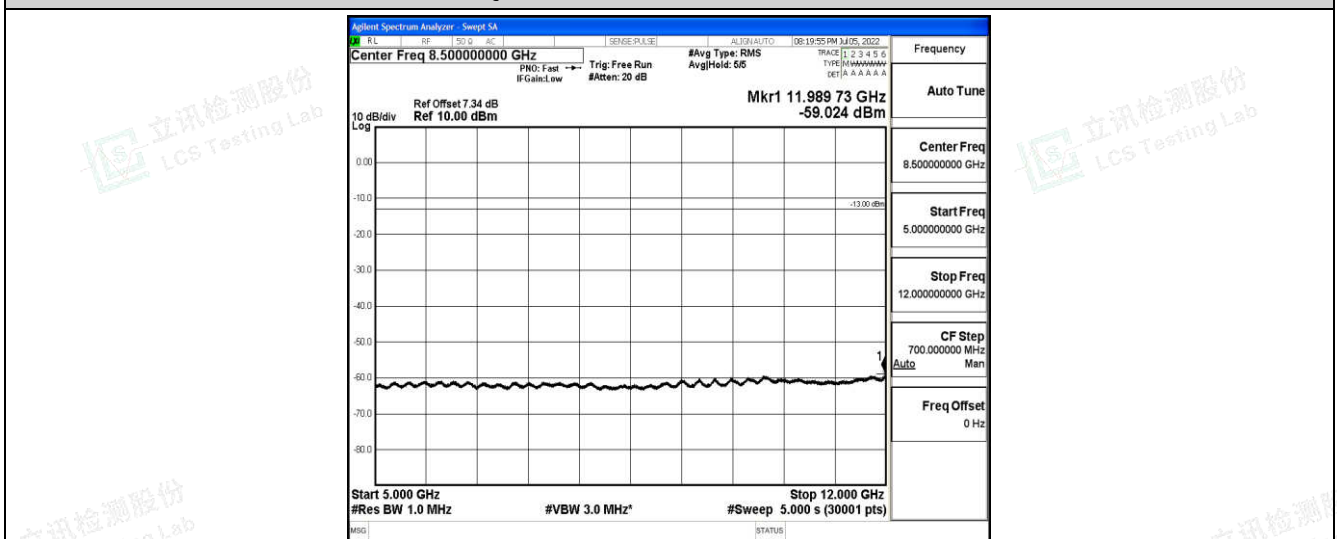
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Band5-1.4MHz-QPSK-20525-1-0-Low-30-1000--37.1-PASS



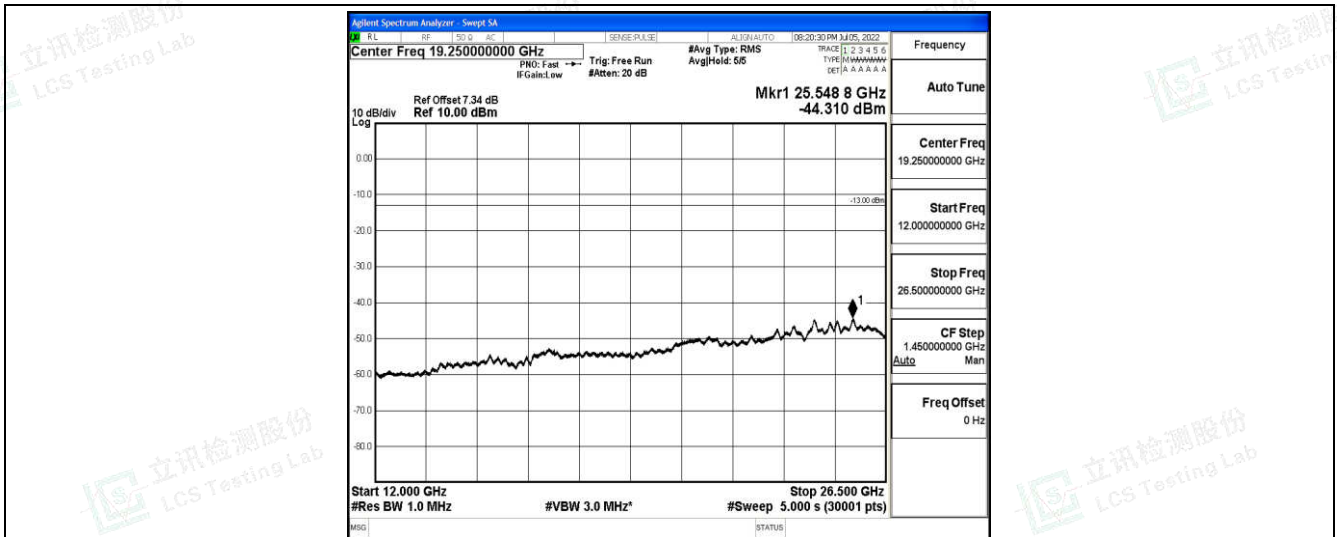
Band5-1.4MHz-QPSK-20525-1-0-Low-1000-5000--43.37-PASS



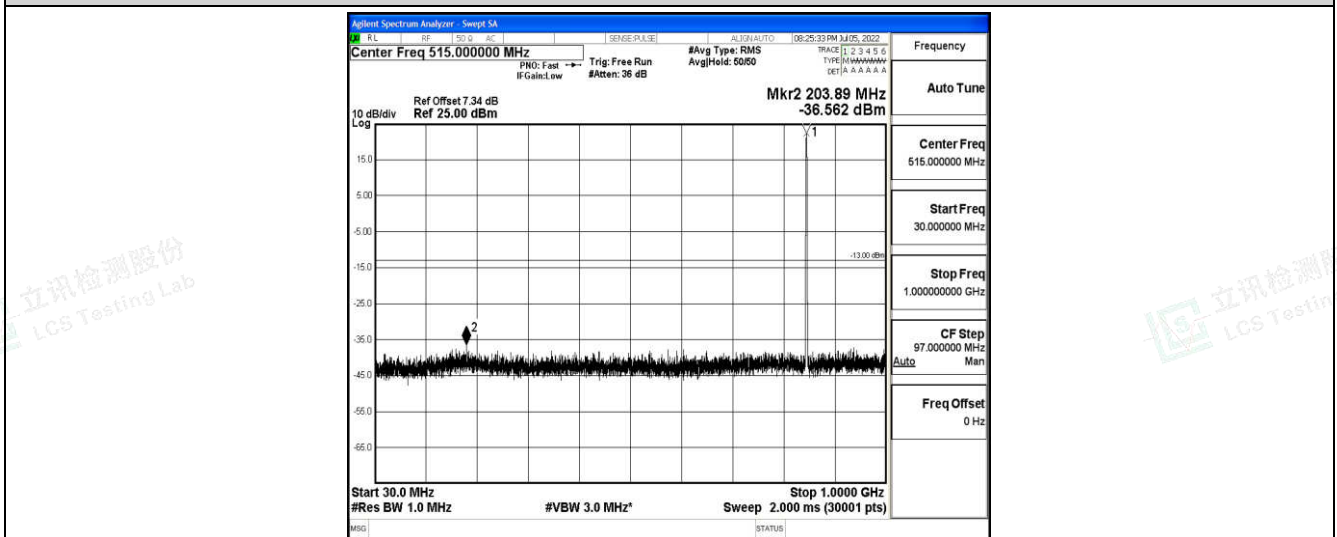
Band5-1.4MHz-QPSK-20525-1-0-Low-5000-12000--59.02-PASS



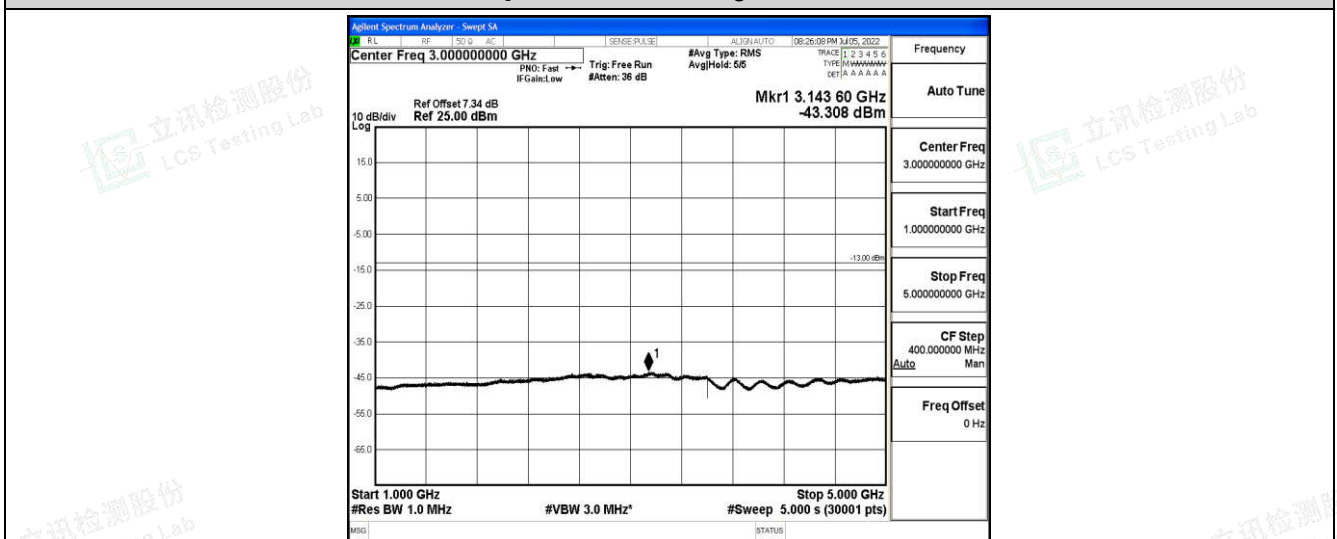
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Band5-1.4MHz-QPSK-20525-1-0-Low-12000-26500--44.31-PASS



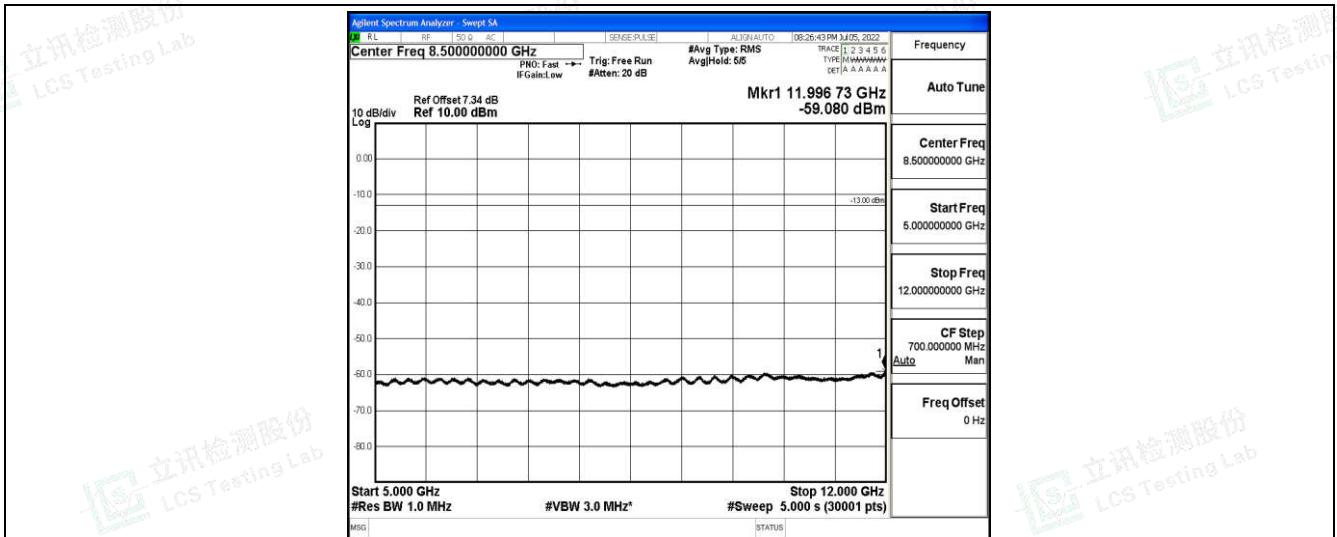
Band5-1.4MHz-QPSK-20643-1-0-High-30-1000--36.56-PASS



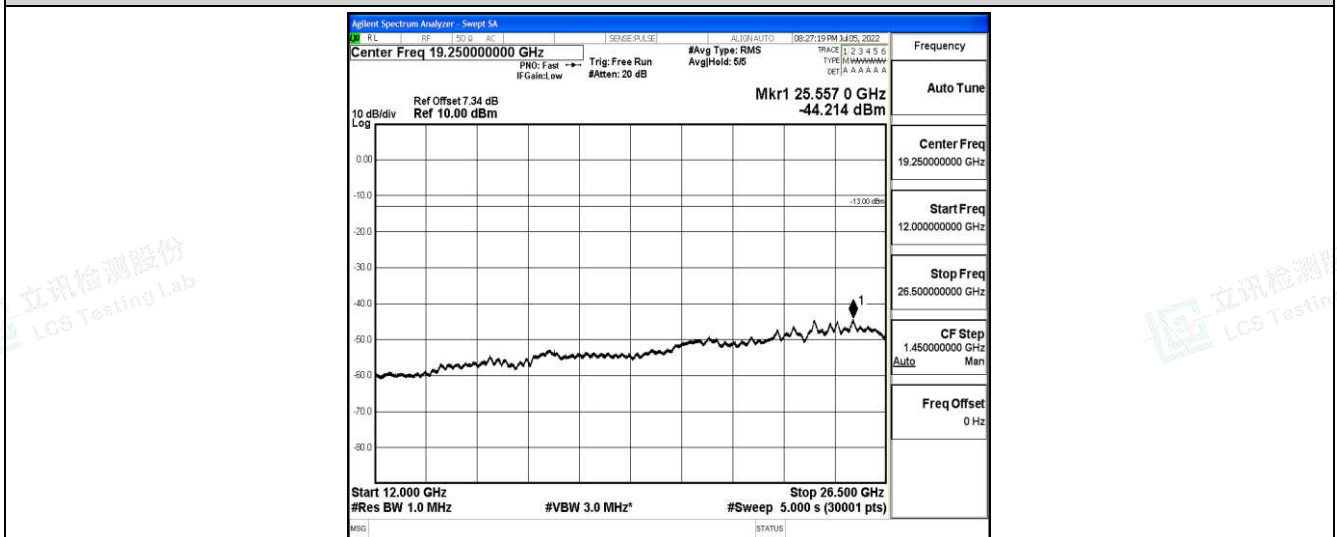
Band5-1.4MHz-QPSK-20643-1-0-High-1000-5000--43.31-PASS



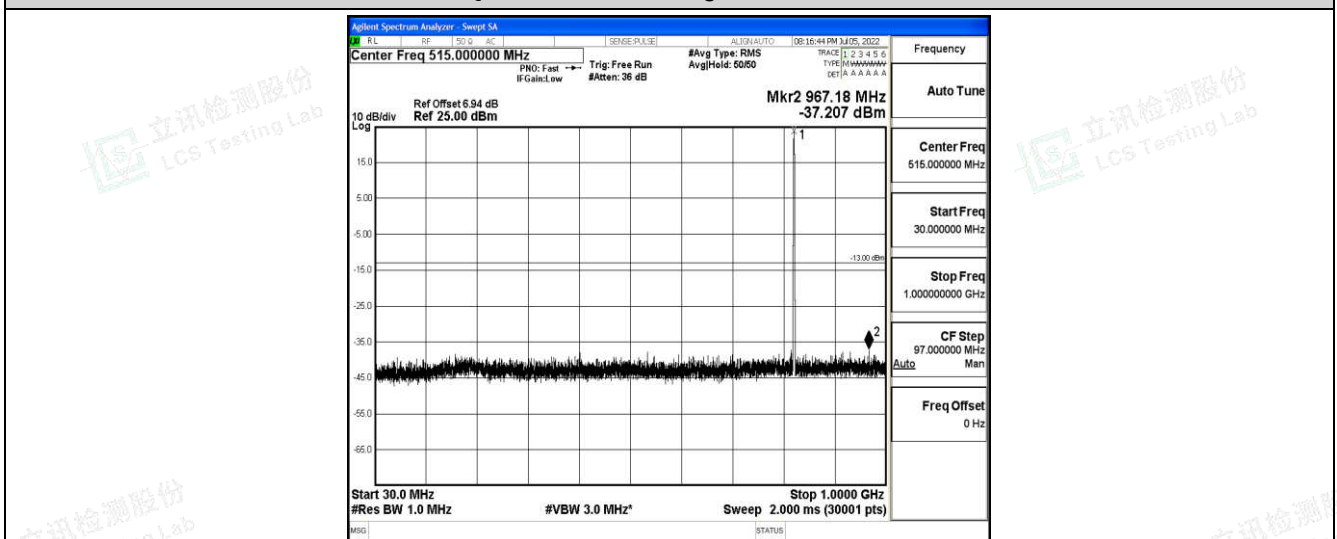
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Band5-1.4MHz-QPSK-20643-1-0-High-5000-12000--59.08-PASS



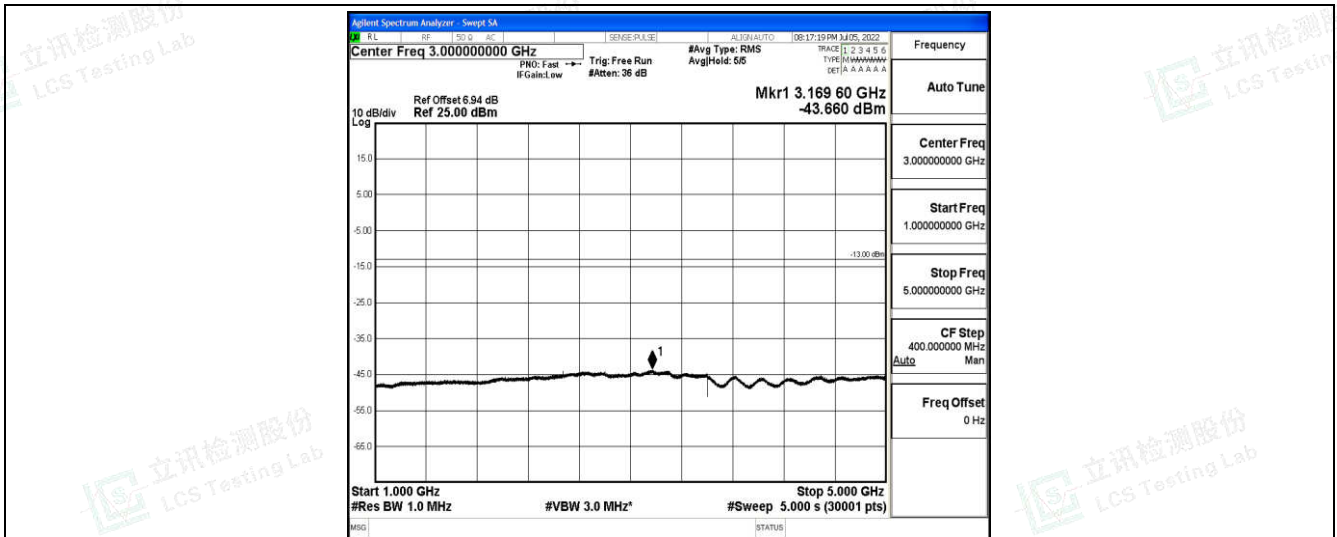
Band5-1.4MHz-QPSK-20643-1-0-High-12000-26500--44.21-PASS



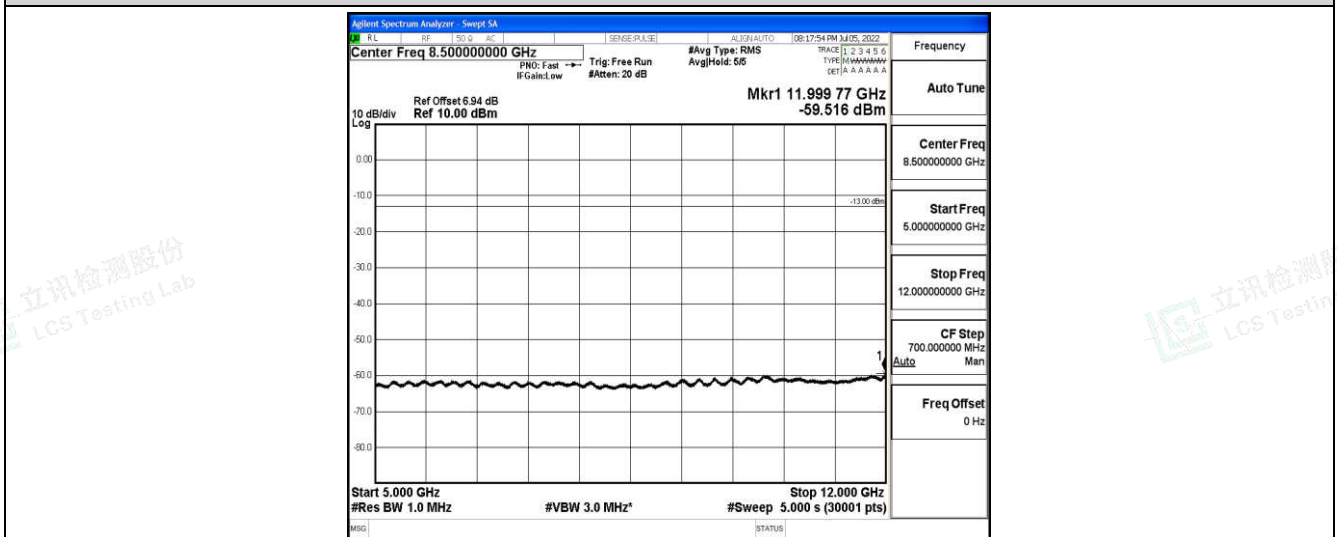
Band5-1.4MHz-16QAM-20407-1-0-Low-30-1000--37.21-PASS



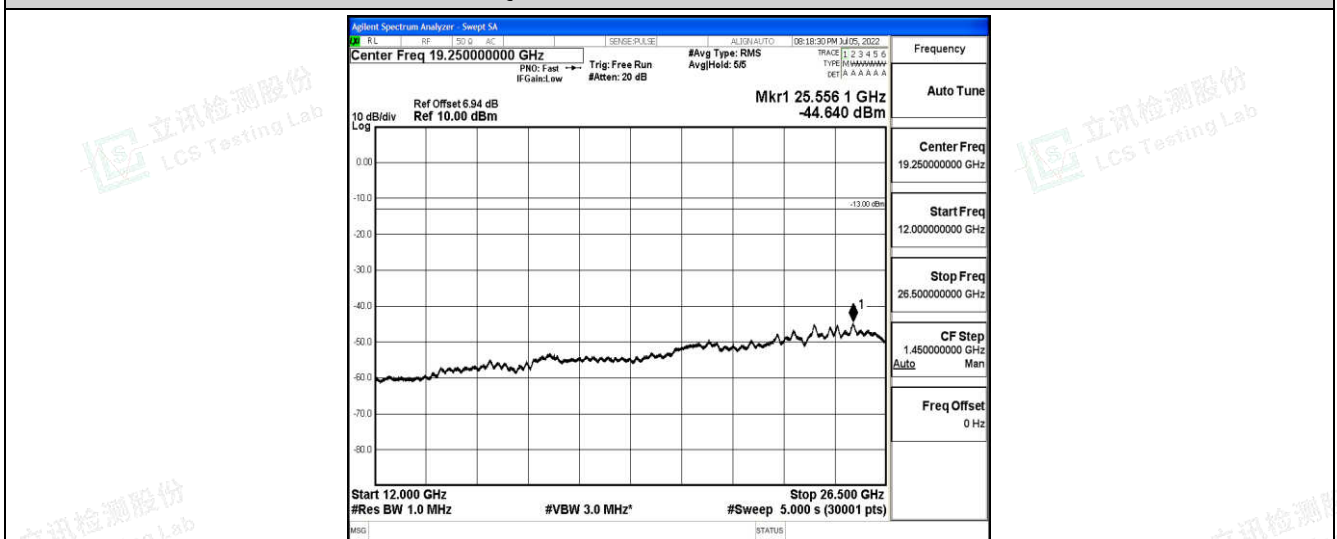
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Band5-1.4MHz-16QAM-20407-1-0-Low-1000-5000--43.66-PASS



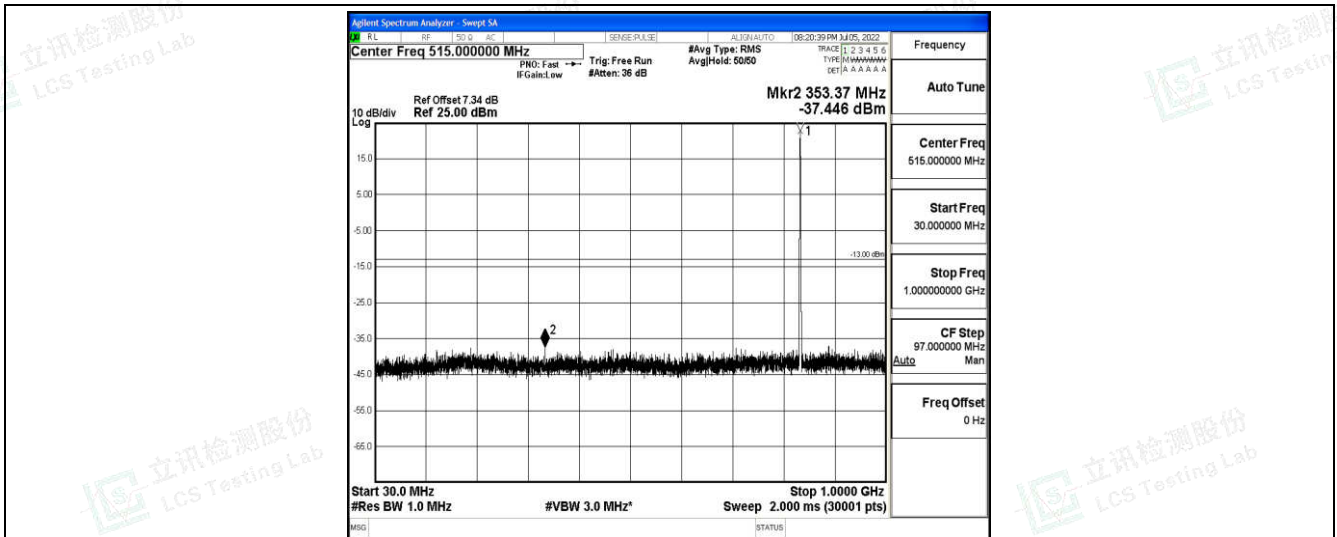
Band5-1.4MHz-16QAM-20407-1-0-Low-5000-12000--59.52-PASS



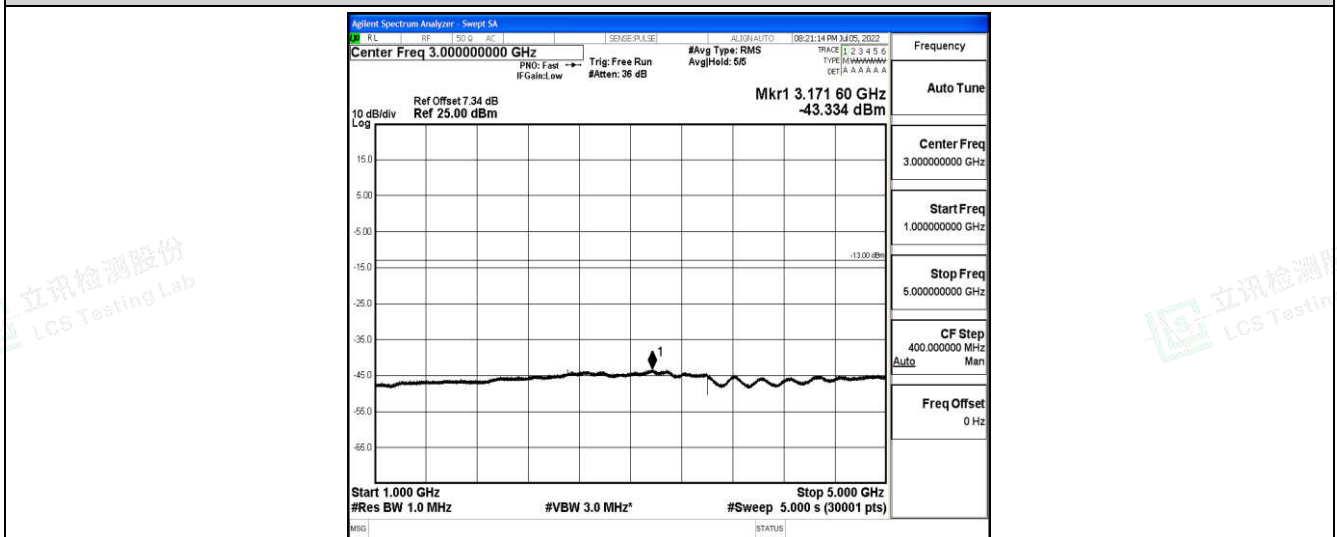
Band5-1.4MHz-16QAM-20407-1-0-Low-12000-26500--44.64-PASS



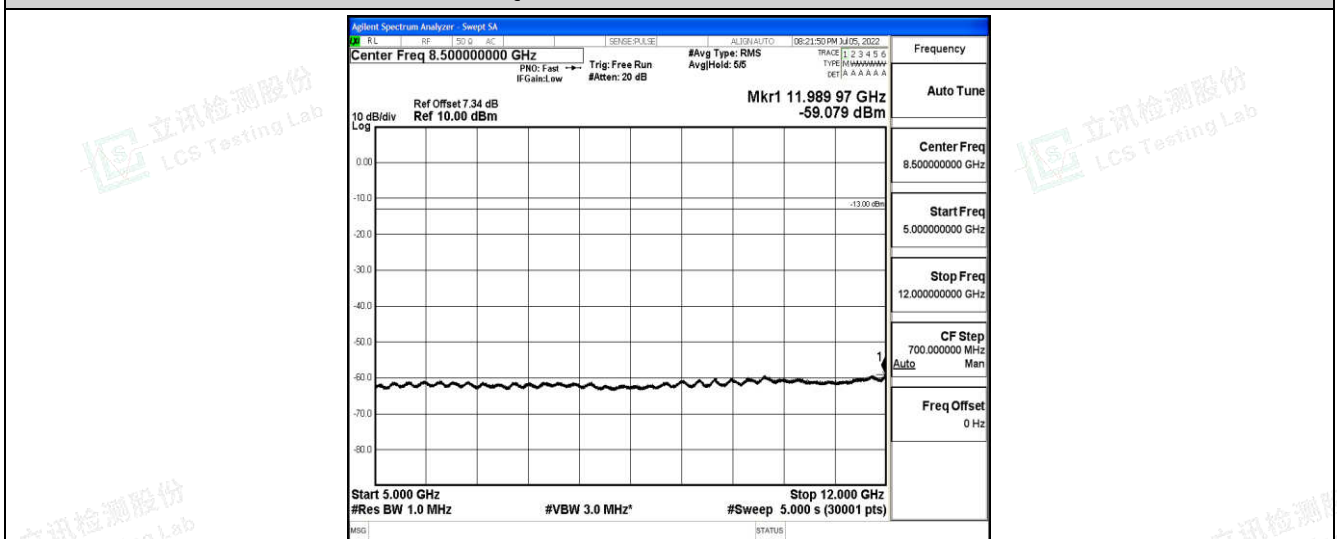
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Band5-1.4MHz-16QAM-20525-1-0-Low-30-1000--37.45-PASS



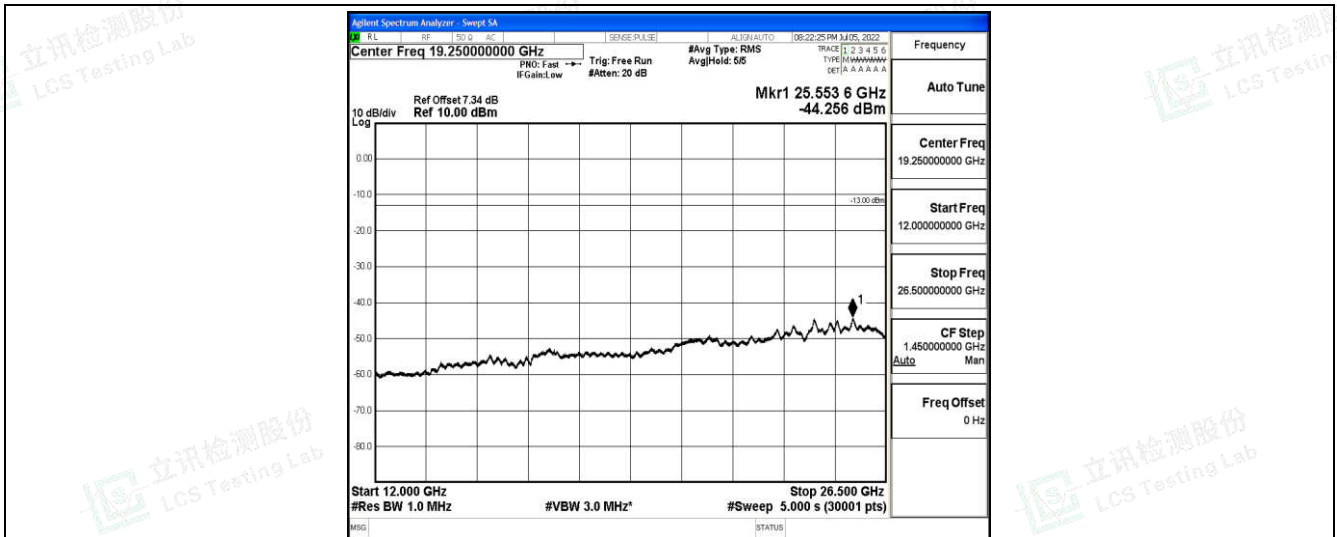
Band5-1.4MHz-16QAM-20525-1-0-Low-1000-5000--43.33-PASS



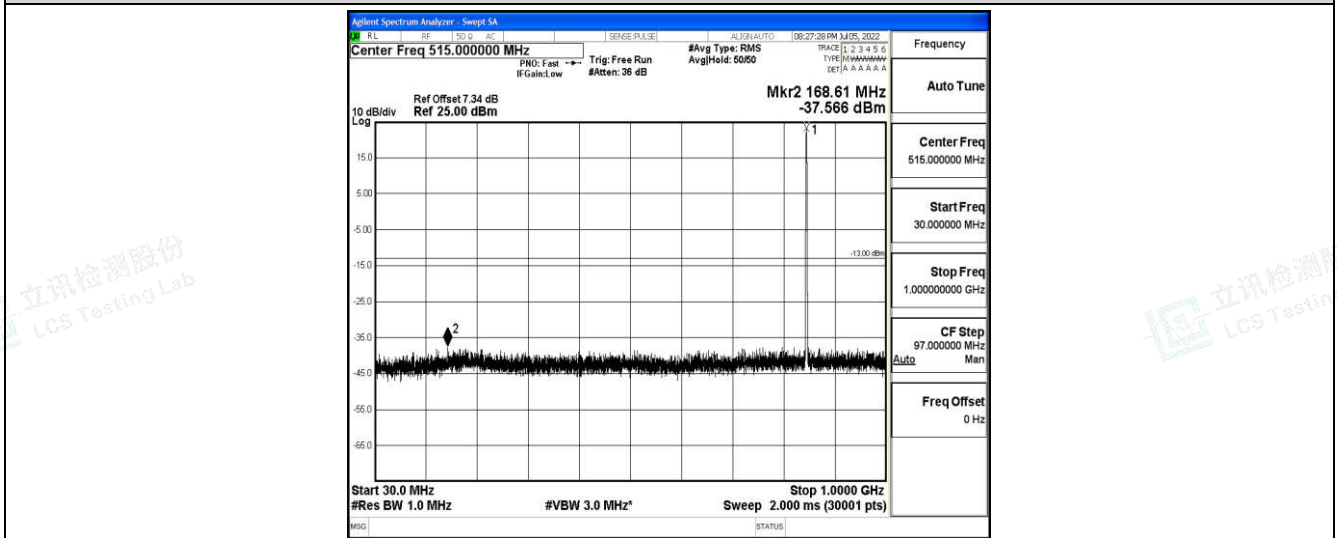
Band5-1.4MHz-16QAM-20525-1-0-Low-5000-12000--59.08-PASS



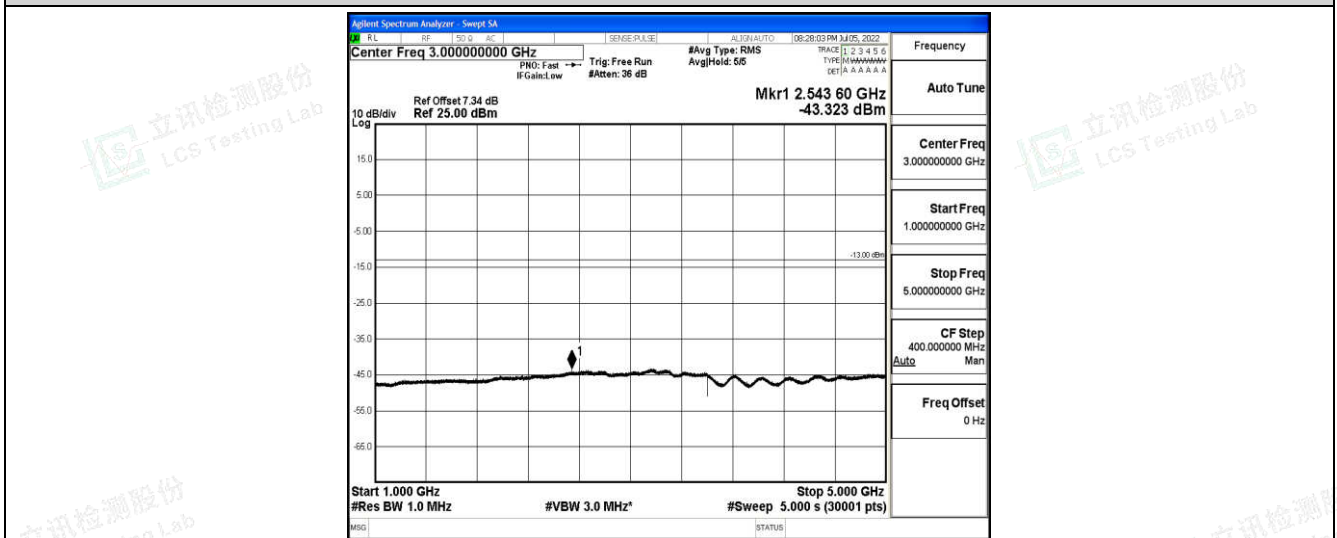
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Band5-1.4MHz-16QAM-20525-1-0-Low-12000-26500--44.26-PASS



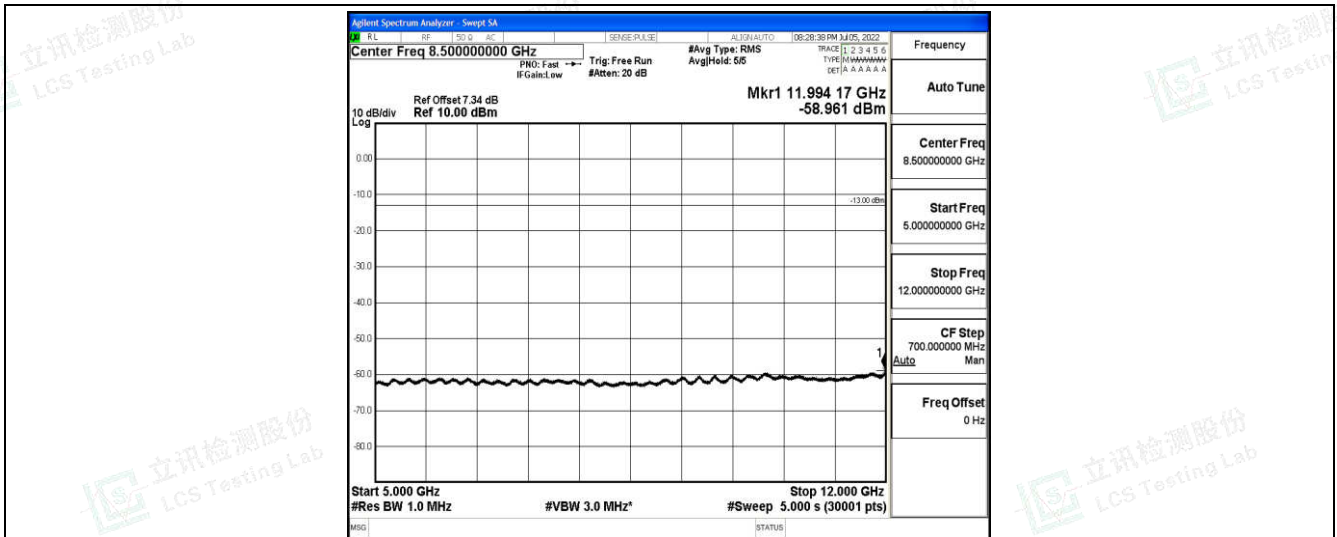
Band5-1.4MHz-16QAM-20643-1-0-High-30-1000--37.57-PASS



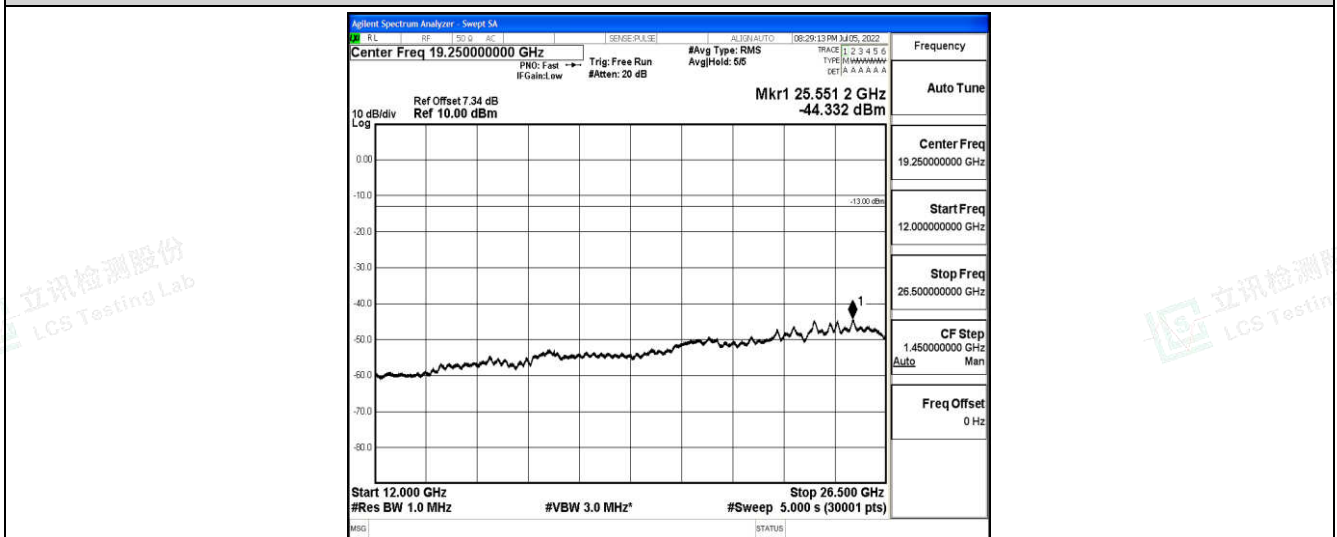
Band5-1.4MHz-16QAM-20643-1-0-High-1000-5000--43.32-PASS



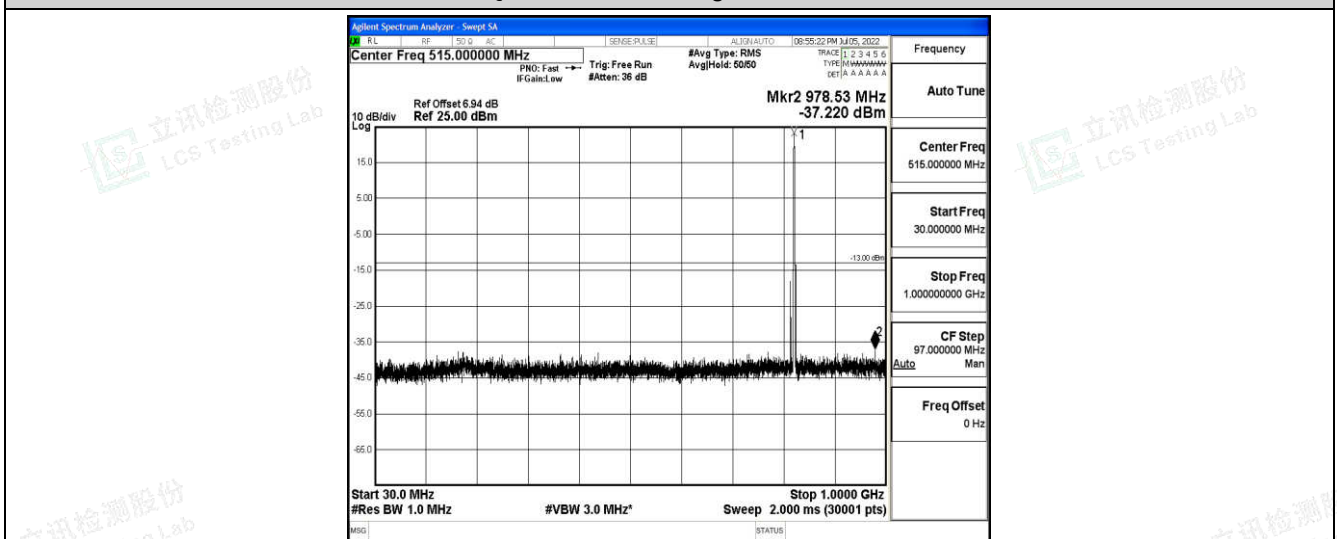
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Band5-1.4MHz-16QAM-20643-1-0-High-5000-12000--58.96-PASS



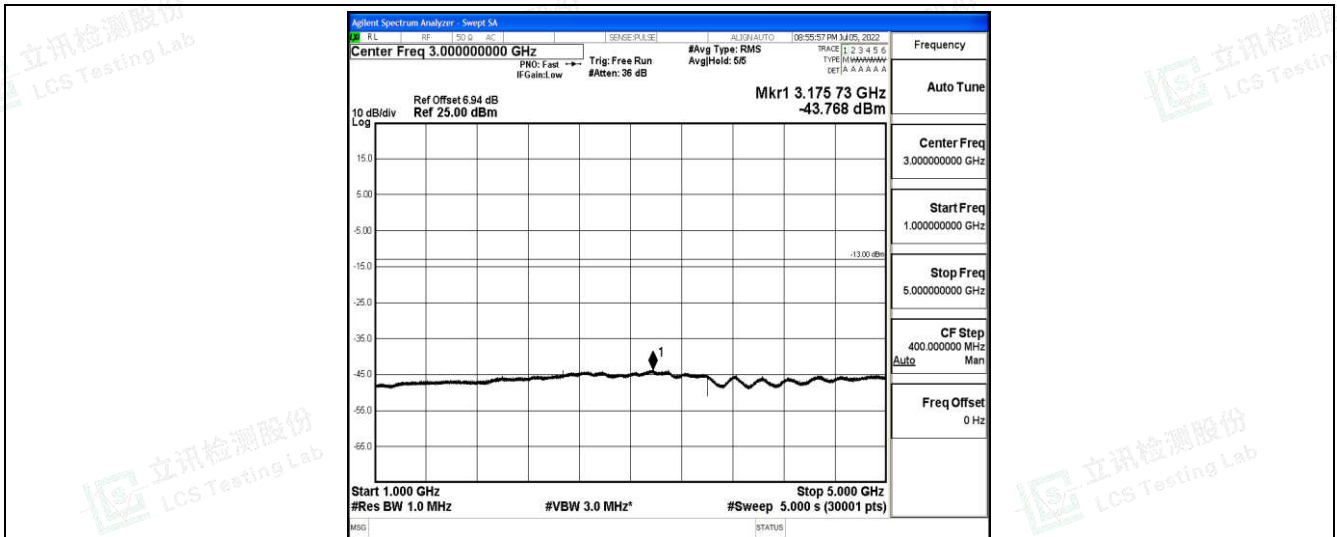
Band5-1.4MHz-16QAM-20643-1-0-High-12000-26500--44.33-PASS



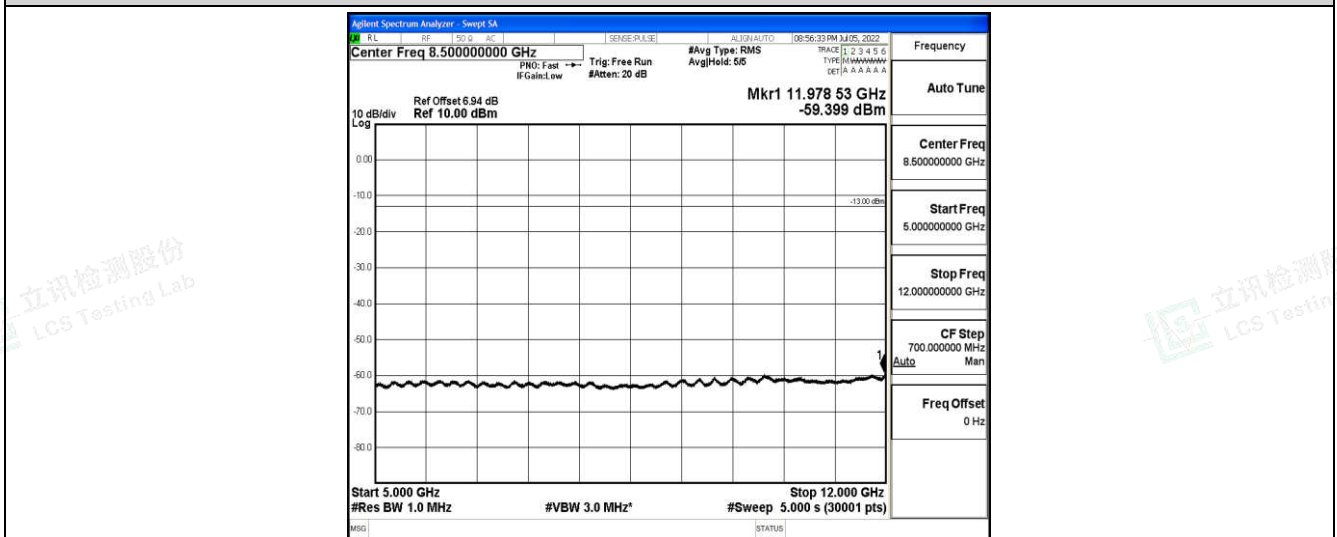
Band5-3MHz-QPSK-20415-1-0-Low-30-1000--37.22-PASS



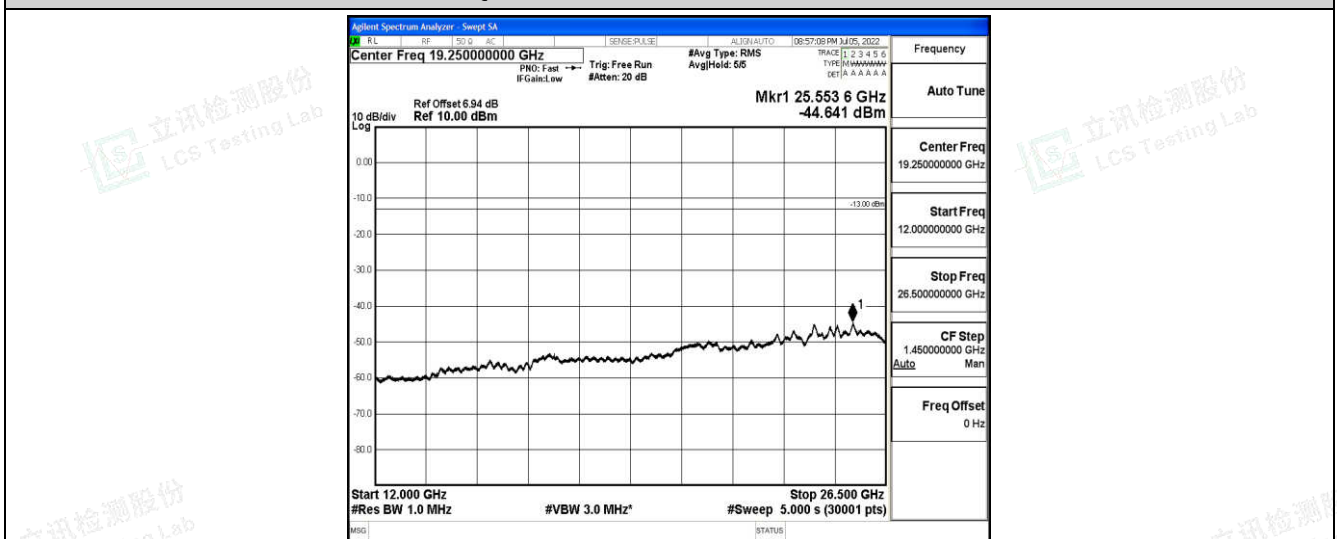
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Band5-3MHz-QPSK-20415-1-0-Low-1000-5000--43.77-PASS



Band5-3MHz-QPSK-20415-1-0-Low-5000-12000--59.4-PASS



Band5-3MHz-QPSK-20415-1-0-Low-12000-26500--44.64-PASS



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