



Appendix E: Test Data for CatM1 Band 5

Product Name: IoTgo Track-Solar iot

Test Model: iot

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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E.1 Conducted Output Power 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	21.33	PASS
Band5	1.4MHz	20407	QPSK	1	5	Low	21.22	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	19.03	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	17.80	PASS
Band5	1.4MHz	20525	QPSK	1	5	Low	17.44	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	15.40	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	17.45	PASS
Band5	1.4MHz	20643	QPSK	1	5	High	17.24	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	15.18	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	20.35	PASS
Band5	1.4MHz	20407	16QAM	1	5	Low	20.20	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	19.03	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	16.48	PASS
Band5	1.4MHz	20525	16QAM	1	5	Low	16.29	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	15.36	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	16.27	PASS
Band5	1.4MHz	20643	16QAM	1	5	High	16.19	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	15.17	PASS
Band5	3MHz	20415	QPSK	1	0	Low	21.74	PASS
Band5	3MHz	20415	QPSK	1	5	Low	21.47	PASS
Band5	3MHz	20415	QPSK	6	0	Low	19.34	PASS
Band5	3MHz	20525	QPSK	1	0	Low	17.91	PASS
Band5	3MHz	20525	QPSK	1	5	Low	17.57	PASS
Band5	3MHz	20525	QPSK	6	0	Low	15.49	PASS
Band5	3MHz	20635	QPSK	1	0	High	17.86	PASS
Band5	3MHz	20635	QPSK	1	5	High	17.71	PASS
Band5	3MHz	20635	QPSK	6	0	High	15.52	PASS
Band5	3MHz	20415	16QAM	1	0	Low	20.65	PASS
Band5	3MHz	20415	16QAM	1	5	Low	20.49	PASS
Band5	3MHz	20415	16QAM	6	0	Low	19.34	PASS
Band5	3MHz	20525	16QAM	1	0	Low	16.68	PASS
Band5	3MHz	20525	16QAM	1	5	Low	16.28	PASS
Band5	3MHz	20525	16QAM	6	0	Low	15.49	PASS
Band5	3MHz	20635	16QAM	1	0	High	16.83	PASS



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Band5	3MHz	20635	16QAM	1	5	High	16.55	PASS
Band5	3MHz	20635	16QAM	6	0	High	15.52	PASS
Band5	5MHz	20425	QPSK	1	0	Low	21.96	PASS
Band5	5MHz	20425	QPSK	1	5	Low	21.87	PASS
Band5	5MHz	20425	QPSK	6	0	Low	20.82	PASS
Band5	5MHz	20525	QPSK	1	0	Low	18.26	PASS
Band5	5MHz	20525	QPSK	1	5	Low	17.89	PASS
Band5	5MHz	20525	QPSK	6	0	Low	16.87	PASS
Band5	5MHz	20625	QPSK	1	0	High	17.76	PASS
Band5	5MHz	20625	QPSK	1	5	High	17.30	PASS
Band5	5MHz	20625	QPSK	6	0	High	16.52	PASS
Band5	5MHz	20425	16QAM	1	0	Low	22.12	PASS
Band5	5MHz	20425	16QAM	1	5	Low	21.99	PASS
Band5	5MHz	20425	16QAM	6	0	Low	20.74	PASS
Band5	5MHz	20525	16QAM	1	0	Low	17.83	PASS
Band5	5MHz	20525	16QAM	1	5	Low	17.46	PASS
Band5	5MHz	20525	16QAM	6	0	Low	17.04	PASS
Band5	5MHz	20625	16QAM	1	0	High	17.49	PASS
Band5	5MHz	20625	16QAM	1	5	High	17.46	PASS
Band5	5MHz	20625	16QAM	6	0	High	16.61	PASS
Band5	10MHz	20450	QPSK	1	0	Low	21.86	PASS
Band5	10MHz	20450	QPSK	1	5	Low	21.66	PASS
Band5	10MHz	20450	QPSK	6	0	Low	20.64	PASS
Band5	10MHz	20525	QPSK	1	0	Low	19.03	PASS
Band5	10MHz	20525	QPSK	1	5	Low	18.44	PASS
Band5	10MHz	20525	QPSK	6	0	Low	17.61	PASS
Band5	10MHz	20600	QPSK	1	0	High	17.77	PASS
Band5	10MHz	20600	QPSK	1	5	High	17.40	PASS
Band5	10MHz	20600	QPSK	6	0	High	16.61	PASS
Band5	10MHz	20450	16QAM	1	0	Low	22.03	PASS
Band5	10MHz	20450	16QAM	1	5	Low	21.84	PASS
Band5	10MHz	20450	16QAM	6	0	Low	20.64	PASS
Band5	10MHz	20525	16QAM	1	0	Low	18.53	PASS
Band5	10MHz	20525	16QAM	1	5	Low	18.11	PASS
Band5	10MHz	20525	16QAM	6	0	Low	17.72	PASS
Band5	10MHz	20600	16QAM	1	0	High	17.61	PASS
Band5	10MHz	20600	16QAM	1	5	High	17.46	PASS
Band5	10MHz	20600	16QAM	6	0	High	16.63	PASS



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

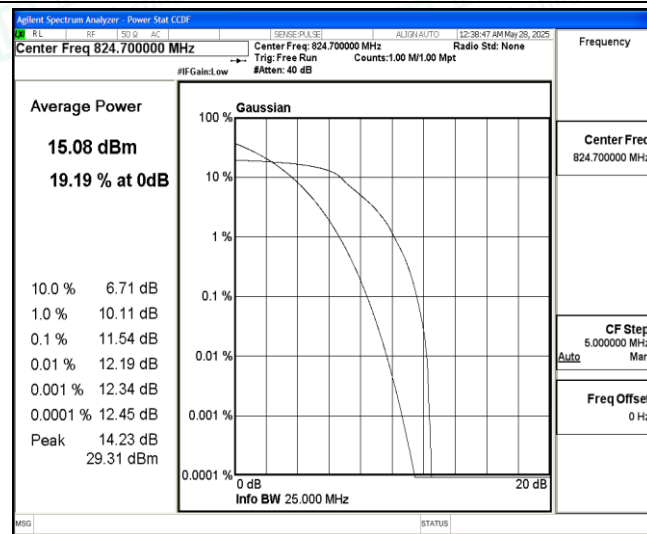
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	11.54	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	9.73	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	9.92	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	9.35	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	9.73	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	10.30	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	10.71	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	10.16	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	8.63	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	11.16	<=13	PASS
Band5	3MHz	20525	16QAM	6	0	Low	10.23	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	9.90	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	11.87	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	10.59	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	9.90	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	8.74	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	9.32	<=13	PASS
Band5	5MHz	20625	16QAM	6	0	High	10.28	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	8.95	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	12.42	<=13	PASS
Band5	10MHz	20600	QPSK	6	0	High	9.09	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	9.91	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	9.25	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	8.91	<=13	PASS

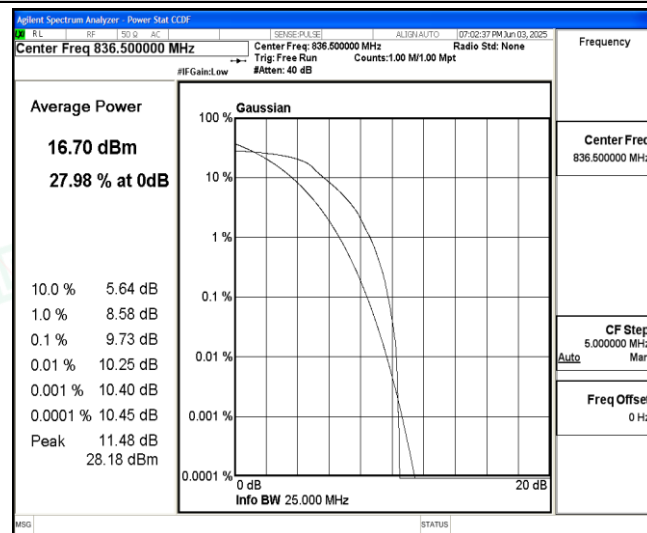




Test Graphs



Band5-1.4MHz-QPSK-20407-6-0-Low-11.54-<=13-PASS



Band5-1.4MHz-QPSK-20525-6-0-Low-9.73-<=13-PASS

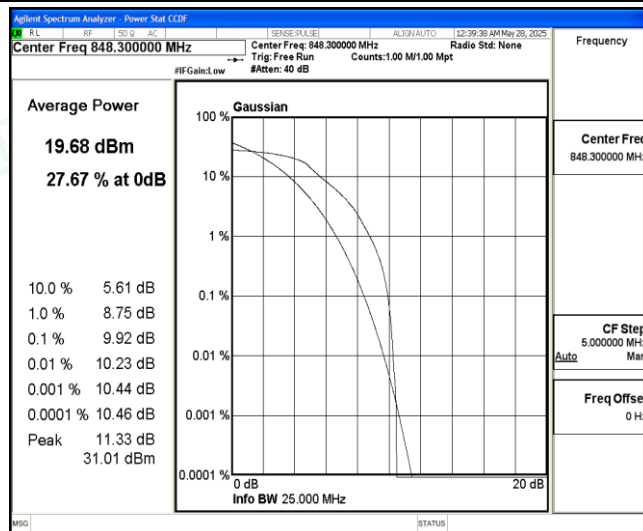


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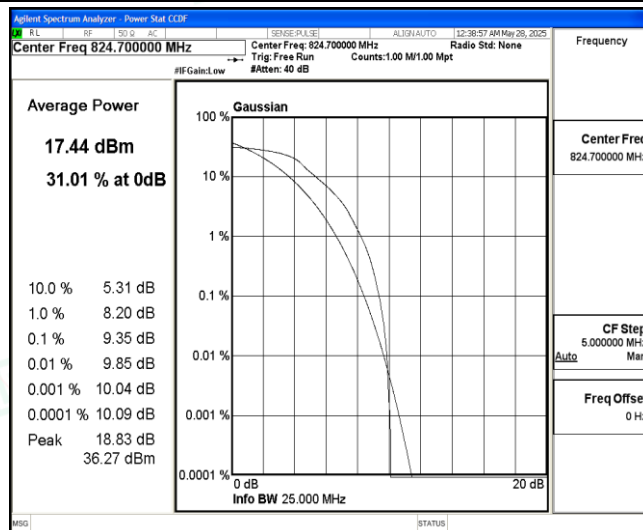
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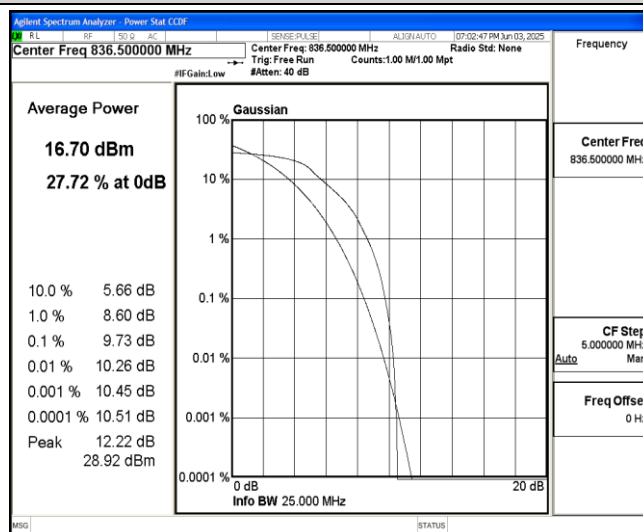
Scan code to check authenticity



Band5-1.4MHz-QPSK-20643-6-0-High-9.92-<=13-PASS



Band5-1.4MHz-16QAM-20407-6-0-Low-9.35-<=13-PASS



Band5-1.4MHz-16QAM-20525-6-0-Low-9.73-<=13-PASS

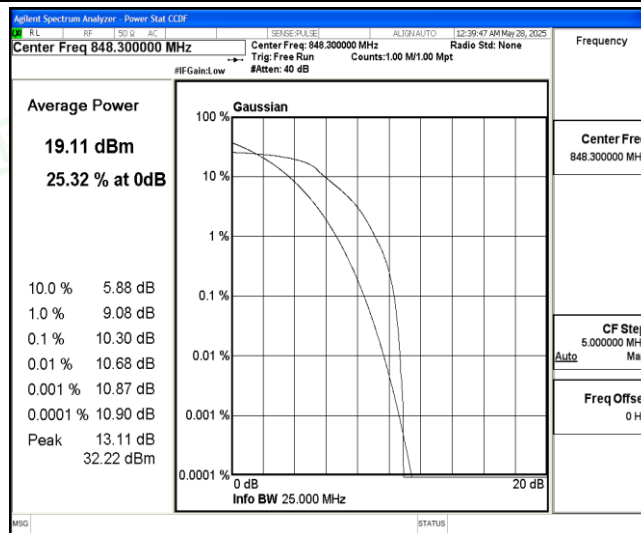


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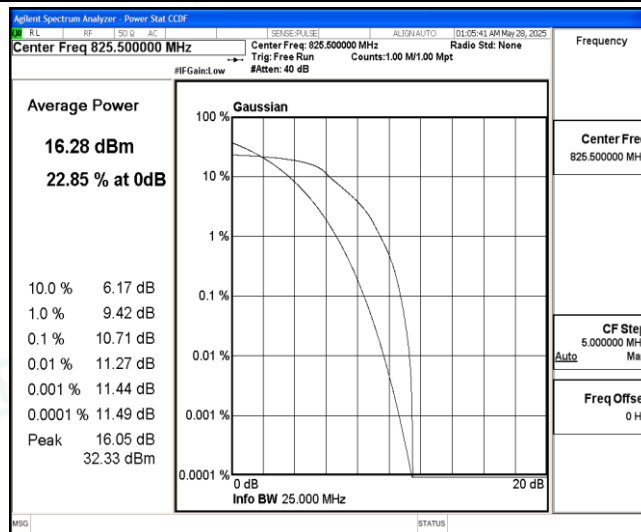
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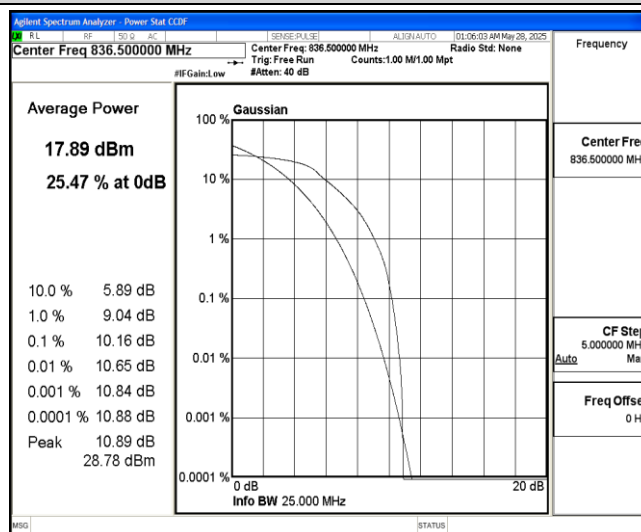
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Band5-1.4MHz-16QAM-20643-6-0-High-10.30-<=13-PASS



Band5-3MHz-QPSK-20415-6-0-Low-10.71-<=13-PASS



Band5-3MHz-QPSK-20525-6-0-Low-10.16-<=13-PASS

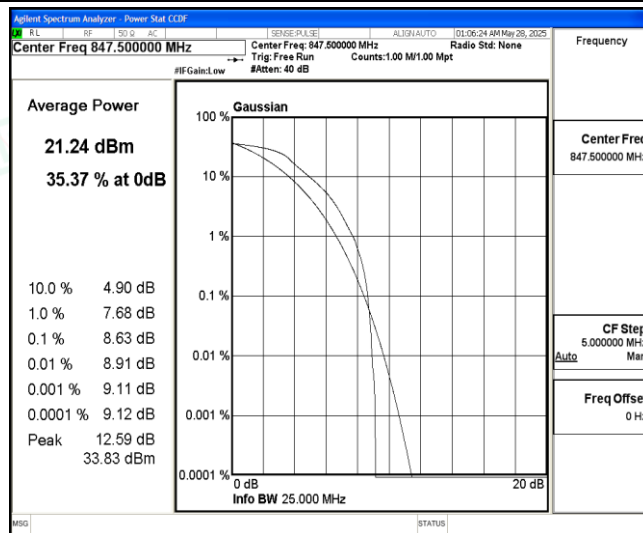


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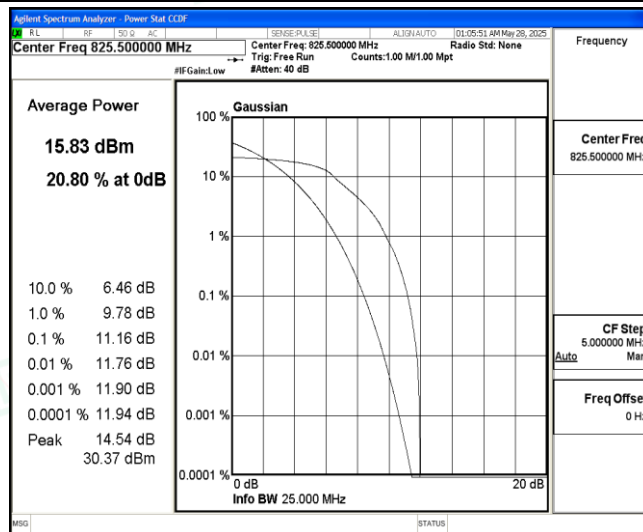
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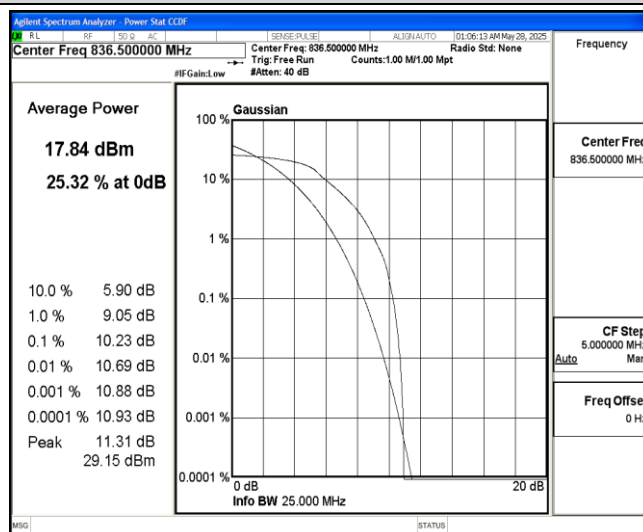
Scan code to check authenticity



Band5-3MHz-QPSK-20635-6-0-High-8.63-<=13-PASS



Band5-3MHz-16QAM-20415-6-0-Low-11.16-<=13-PASS



Band5-3MHz-16QAM-20525-6-0-Low-10.23-<=13-PASS

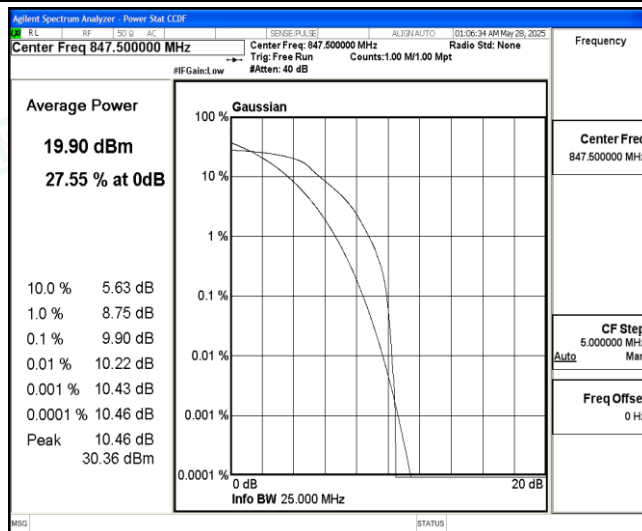


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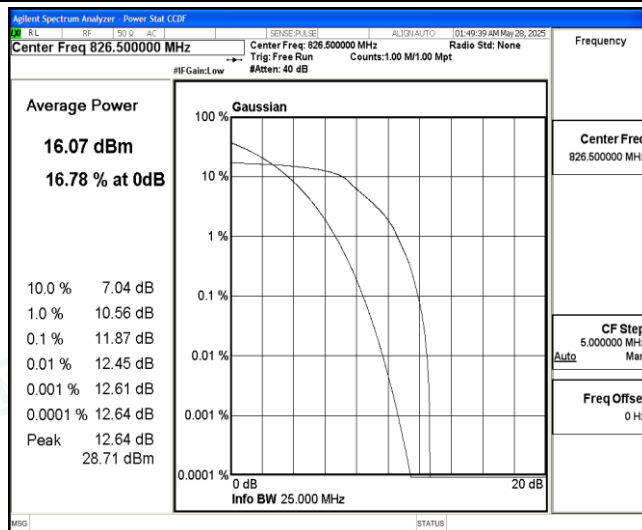
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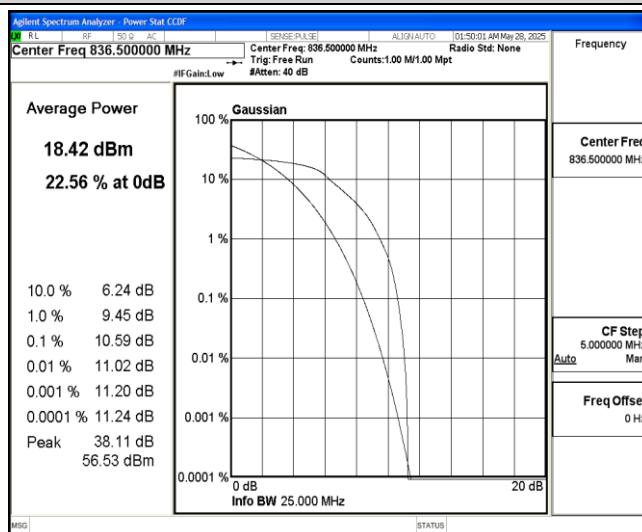
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Band5-3MHz-16QAM-20635-6-0-High-9.90-<=13-PASS



Band5-5MHz-QPSK-20425-6-0-Low-11.87-<=13-PASS



Band5-5MHz-QPSK-20525-6-0-Low-10.59-<=13-PASS

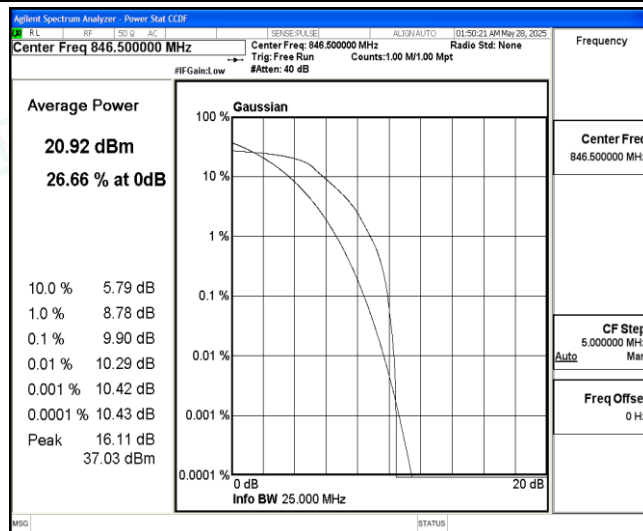


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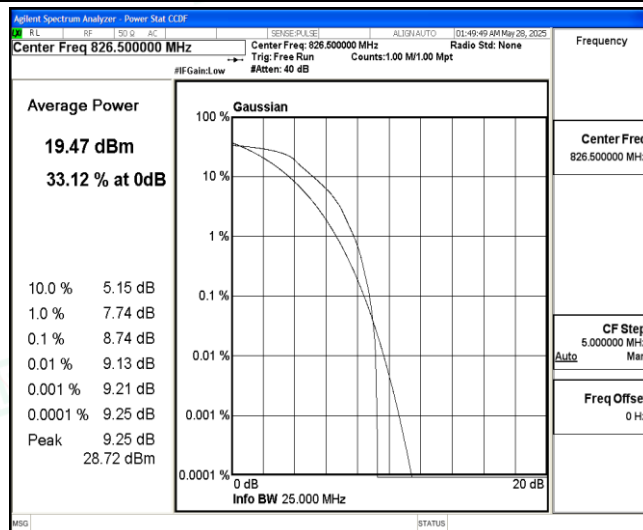
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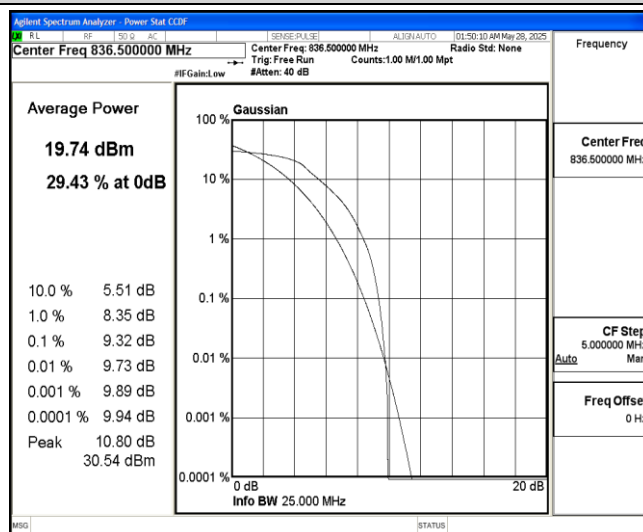
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Band5-5MHz-QPSK-20625-6-0-High-9.90-<=13-PASS



Band5-5MHz-16QAM-20425-6-0-Low-8.74-<=13-PASS



Band5-5MHz-16QAM-20525-6-0-Low-9.32-<=13-PASS

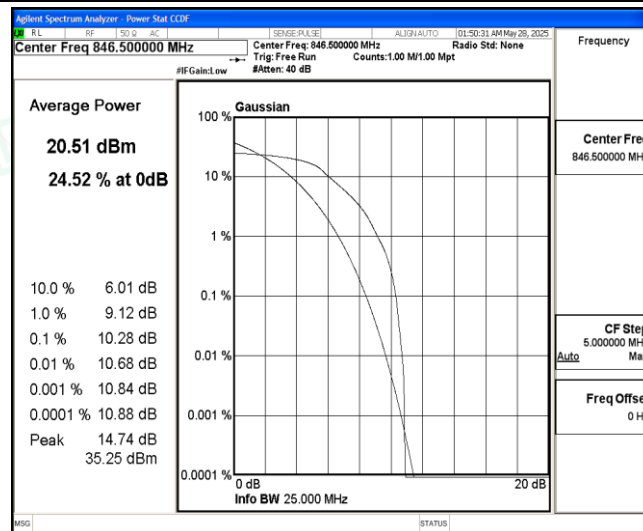


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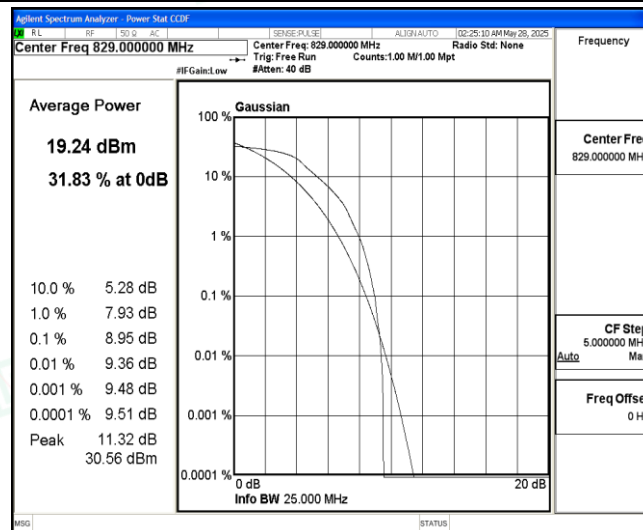
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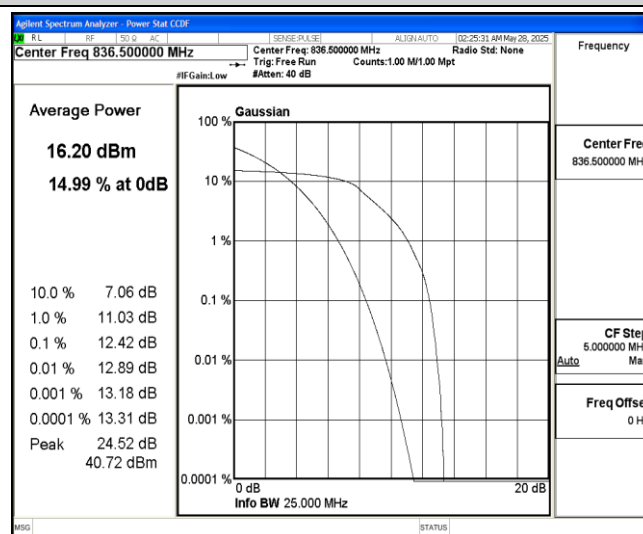
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Band5-5MHz-16QAM-20625-6-0-High-10.28-<=13-PASS



Band5-10MHz-QPSK-20450-6-0-Low-8.95-<=13-PASS



Band5-10MHz-QPSK-20525-6-0-Low-12.42-<=13-PASS

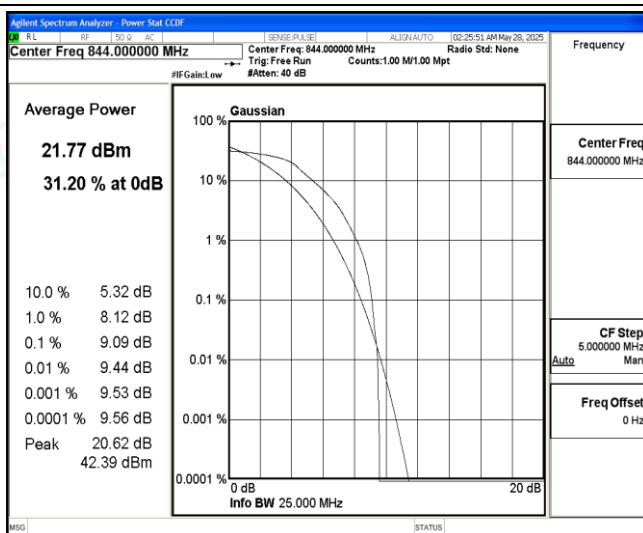


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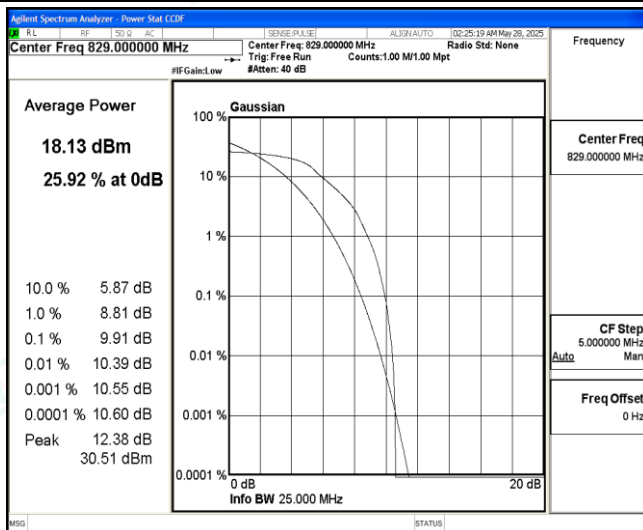
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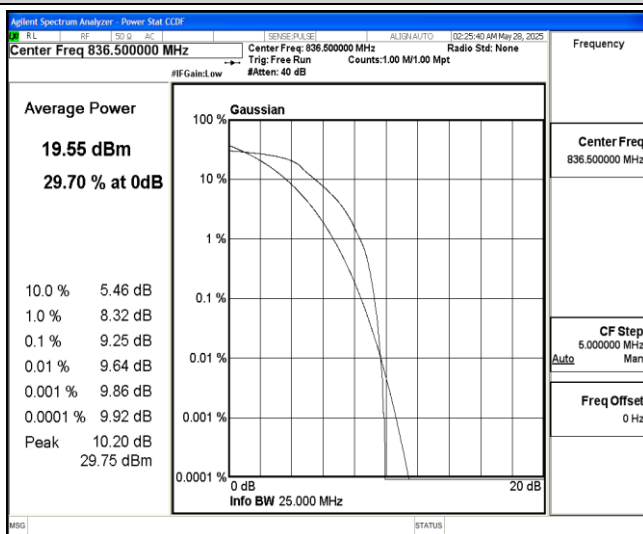
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Band5-10MHz-QPSK-20600-6-0-High-9.09-<=13-PASS



Band5-10MHz-16QAM-20450-6-0-Low-9.91-<=13-PASS



Band5-10MHz-16QAM-20525-6-0-Low-9.25-<=13-PASS

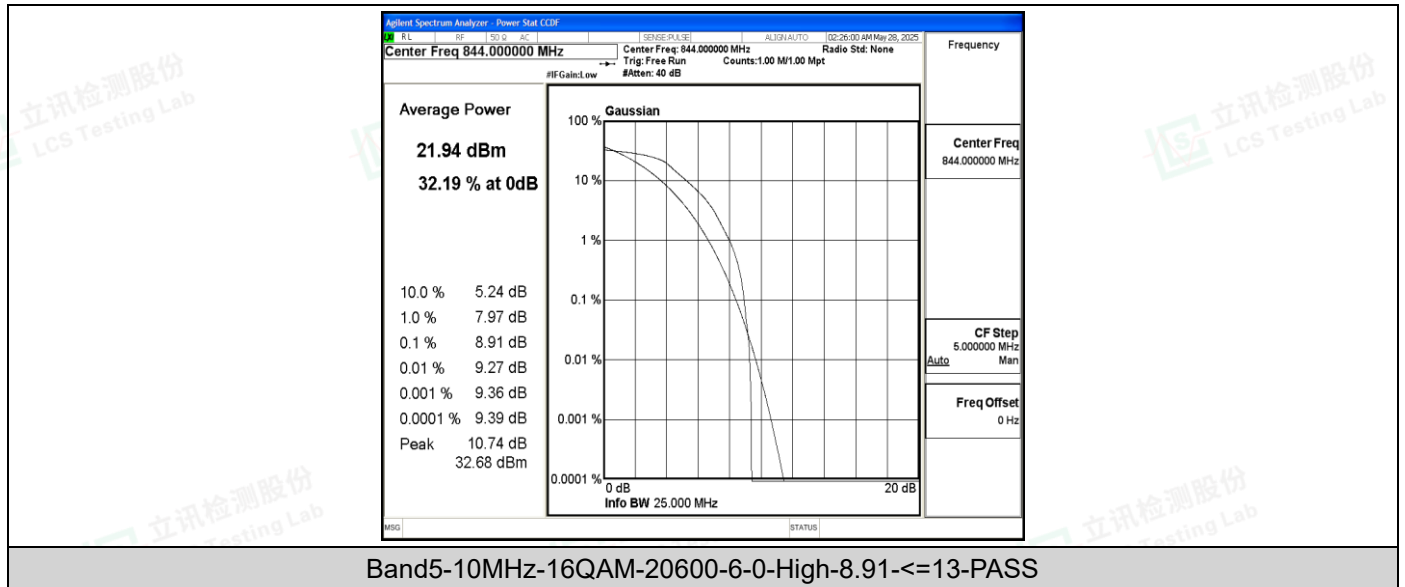


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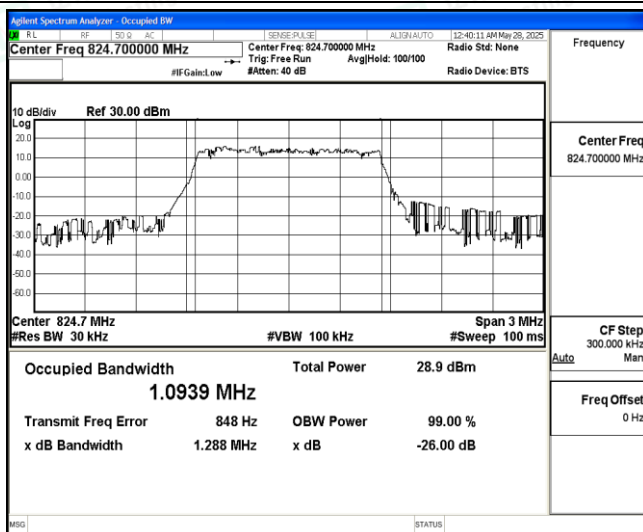
E.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

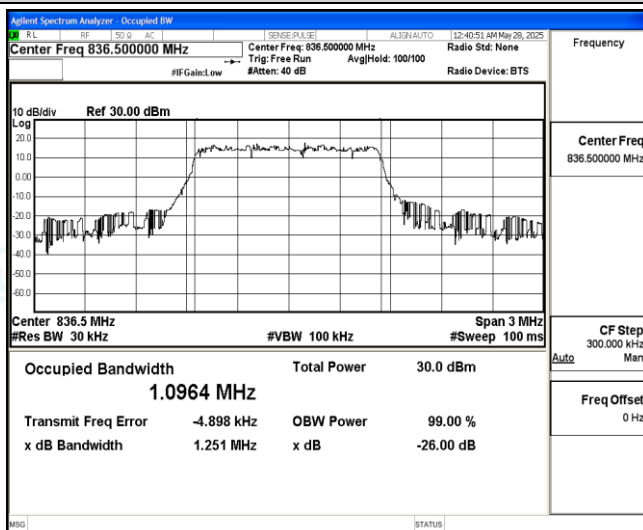
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	1.0939	1.288	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	1.0964	1.251	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	1.0952	1.278	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	1.0808	1.270	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	1.0958	1.261	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	1.0977	1.269	PASS
Band5	3MHz	20415	QPSK	6	0	Low	1.1104	1.403	PASS
Band5	3MHz	20525	QPSK	6	0	Low	1.1049	1.359	PASS
Band5	3MHz	20635	QPSK	6	0	High	1.1210	1.326	PASS
Band5	3MHz	20415	16QAM	6	0	Low	1.1037	1.381	PASS
Band5	3MHz	20525	16QAM	6	0	Low	1.1148	1.398	PASS
Band5	3MHz	20635	16QAM	6	0	High	1.1135	1.321	PASS
Band5	5MHz	20425	QPSK	6	0	Low	1.1744	1.602	PASS
Band5	5MHz	20525	QPSK	6	0	Low	1.1624	1.552	PASS
Band5	5MHz	20625	QPSK	6	0	High	1.2006	1.395	PASS
Band5	5MHz	20425	16QAM	6	0	Low	1.1744	1.547	PASS
Band5	5MHz	20525	16QAM	6	0	Low	1.1678	1.438	PASS
Band5	5MHz	20625	16QAM	6	0	High	1.1746	1.434	PASS
Band5	10MHz	20450	QPSK	6	0	Low	1.3052	2.151	PASS
Band5	10MHz	20525	QPSK	6	0	Low	1.3553	2.138	PASS
Band5	10MHz	20600	QPSK	6	0	High	1.3215	2.033	PASS
Band5	10MHz	20450	16QAM	6	0	Low	1.3271	2.230	PASS
Band5	10MHz	20525	16QAM	6	0	Low	1.3382	2.113	PASS
Band5	10MHz	20600	16QAM	6	0	High	1.3570	2.090	PASS



Test Graphs



Band5-1.4MHz-QPSK-20407-6-0-Low-1.0939-1.288-PASS



Band5-1.4MHz-QPSK-20525-6-0-Low-1.0964-1.251-PASS

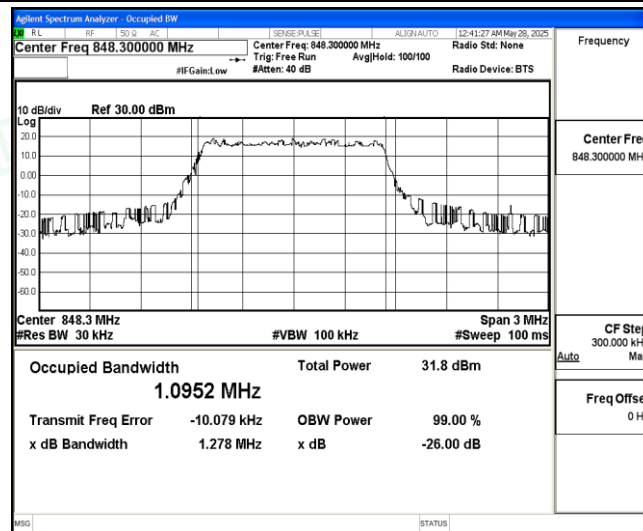


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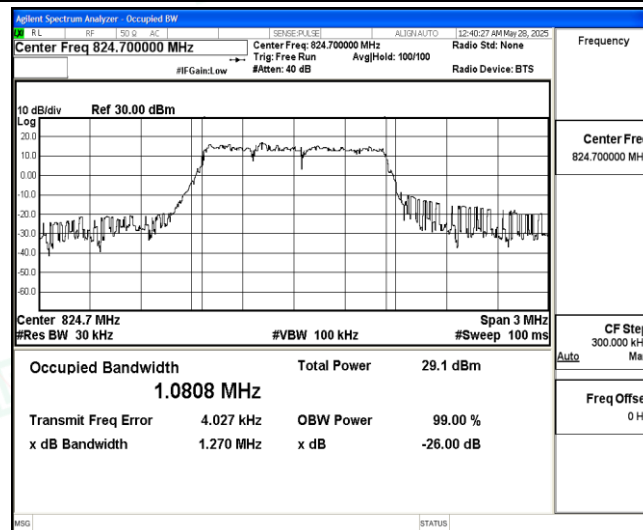
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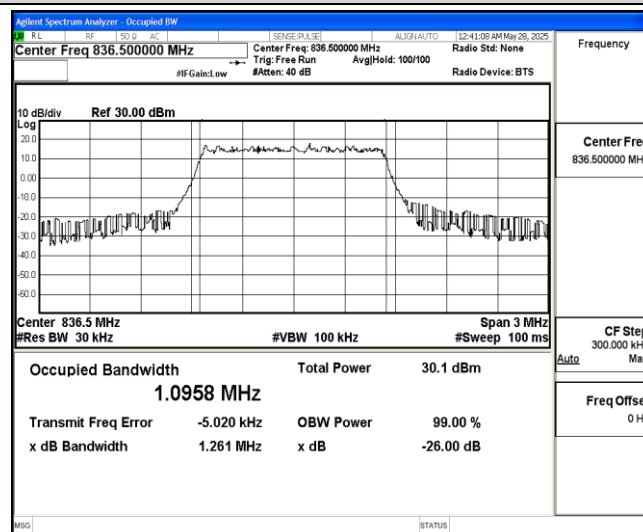
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Band5-1.4MHz-QPSK-20643-6-0-High-1.0952-1.278-PASS



Band5-1.4MHz-16QAM-20407-6-0-Low-1.0808-1.270-PASS



Band5-1.4MHz-16QAM-20525-6-0-Low-1.0958-1.261-PASS

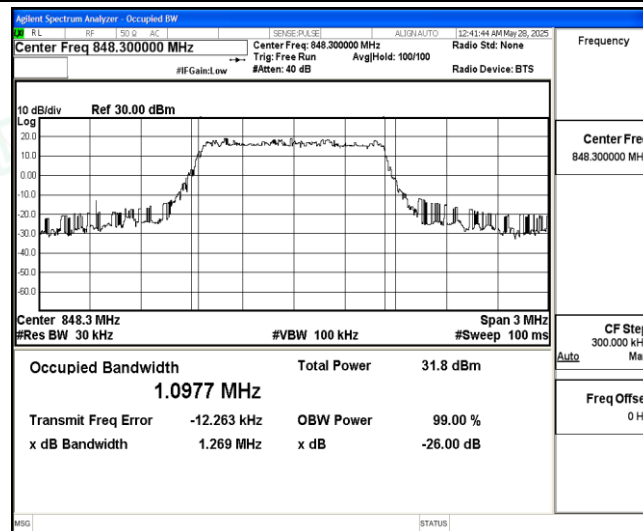


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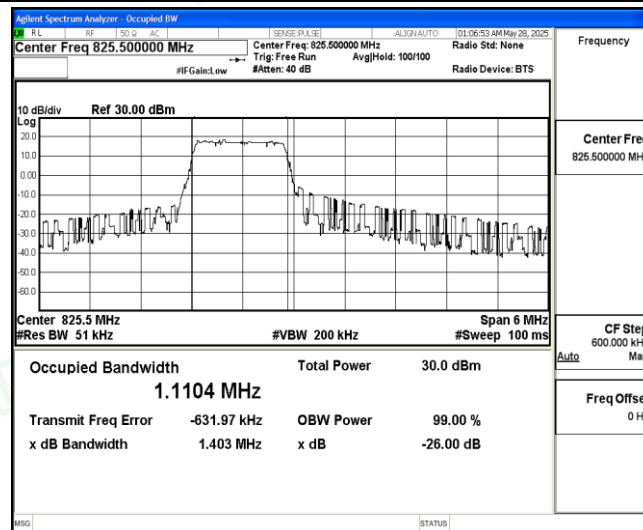
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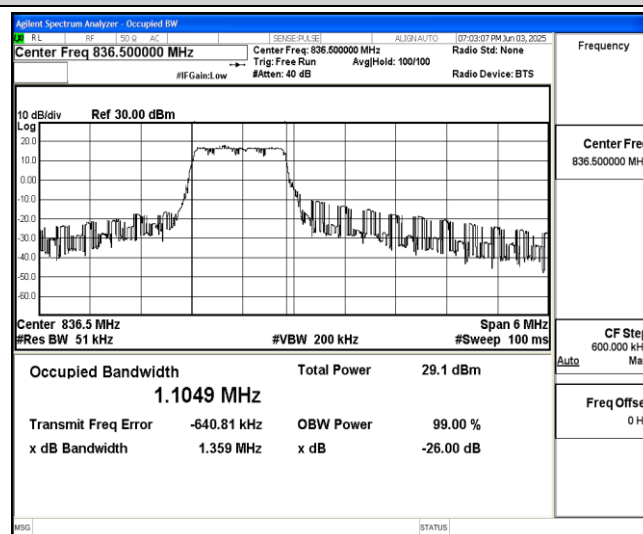
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Band5-1.4MHz-16QAM-20643-6-0-High-1.0977-1.269-PASS



Band5-3MHz-QPSK-20415-6-0-Low-1.1104-1.403-PASS



Band5-3MHz-QPSK-20525-6-0-Low-1.1049-1.359-PASS

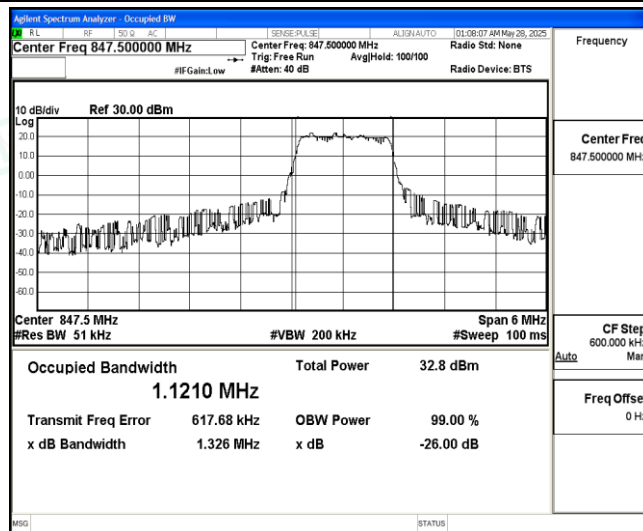


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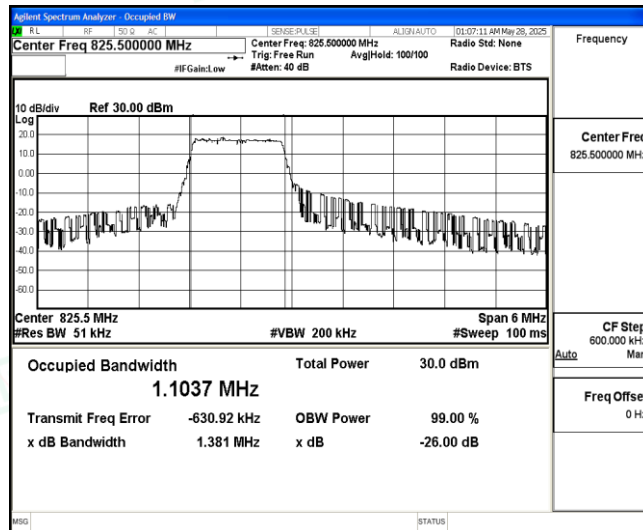
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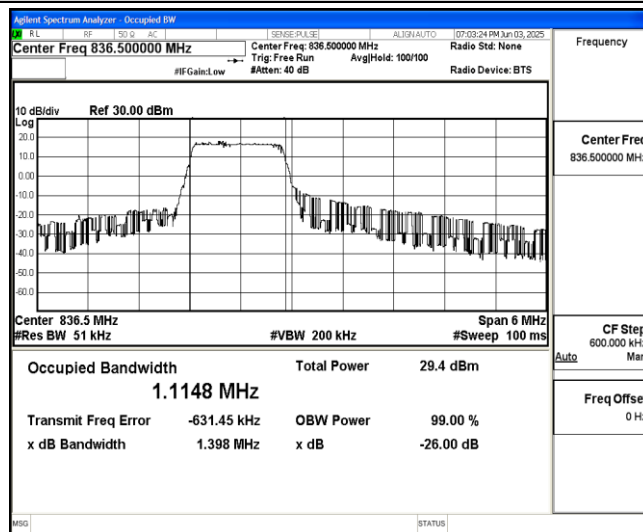
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Band5-3MHz-QPSK-20635-6-0-High-1.1210-1.326-PASS



Band5-3MHz-16QAM-20415-6-0-Low-1.1037-1.381-PASS



Band5-3MHz-16QAM-20525-6-0-Low-1.1148-1.398-PASS

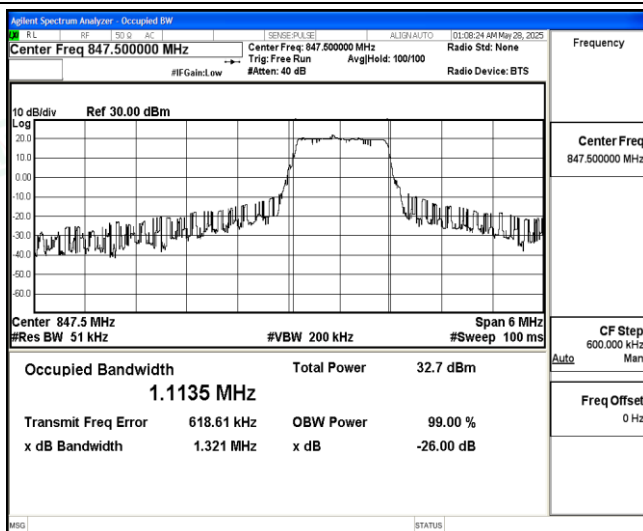


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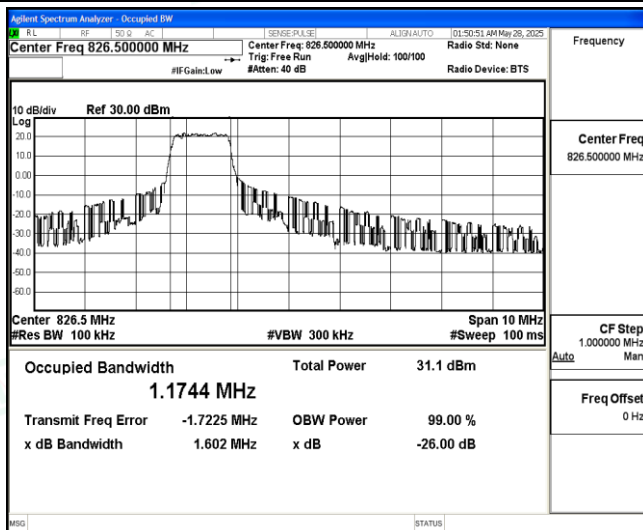
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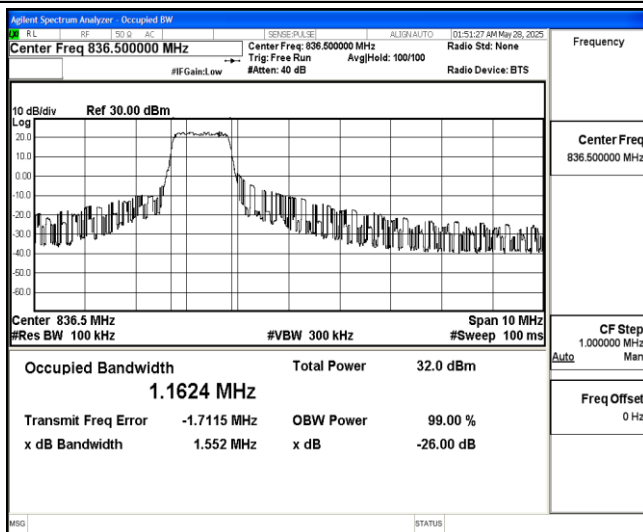
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Band5-3MHz-16QAM-20635-6-0-High-1.1135-1.321-PASS



Band5-5MHz-QPSK-20425-6-0-Low-1.1744-1.602-PASS



Band5-5MHz-QPSK-20525-6-0-Low-1.1624-1.552-PASS

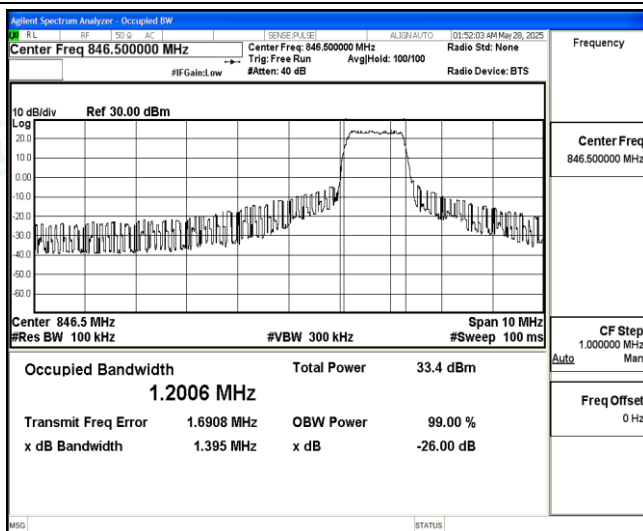


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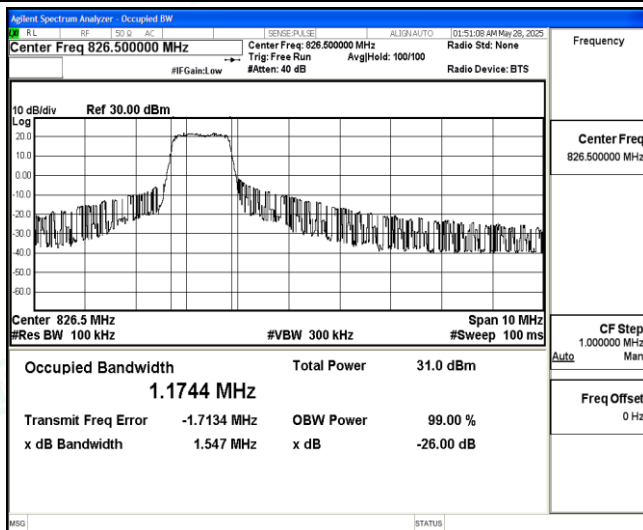
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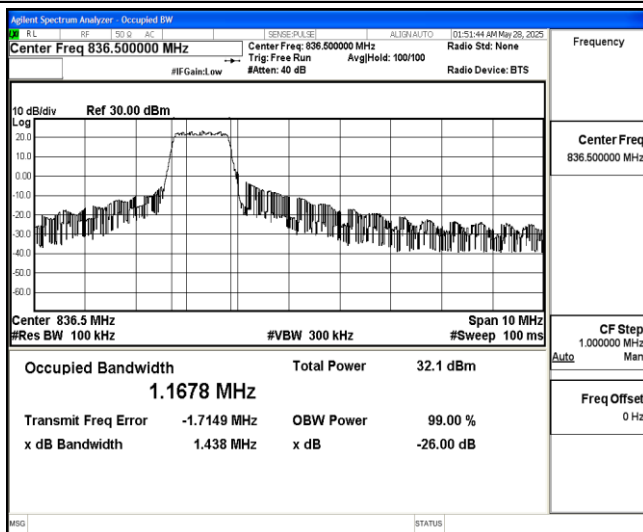
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Band5-5MHz-QPSK-20625-6-0-High-1.2006-1.395-PASS



Band5-5MHz-16QAM-20425-6-0-Low-1.1744-1.547-PASS



Band5-5MHz-16QAM-20525-6-0-Low-1.1678-1.438-PASS

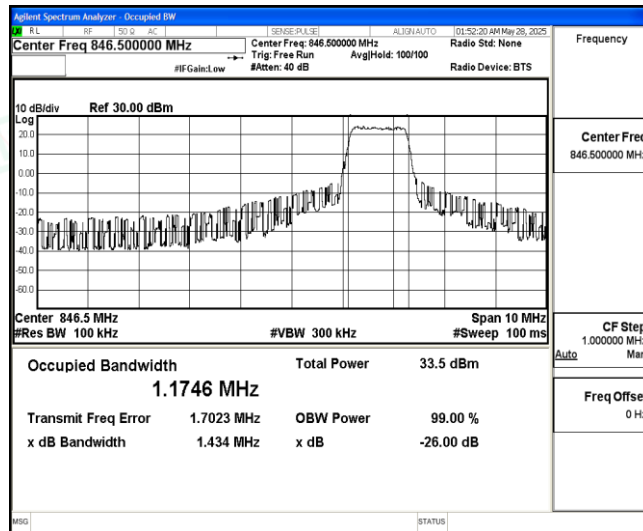


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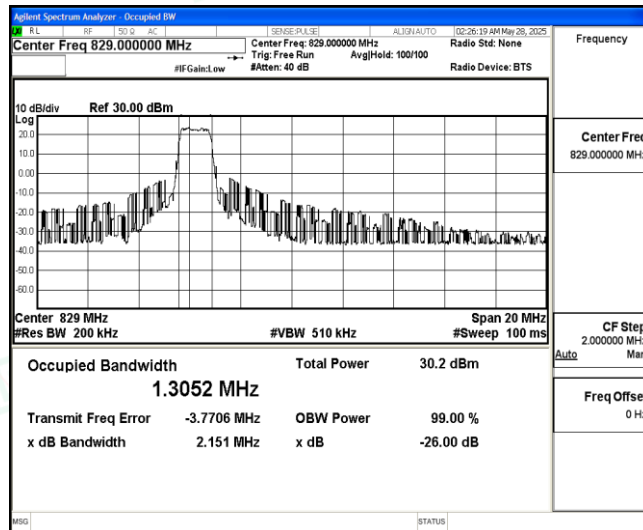
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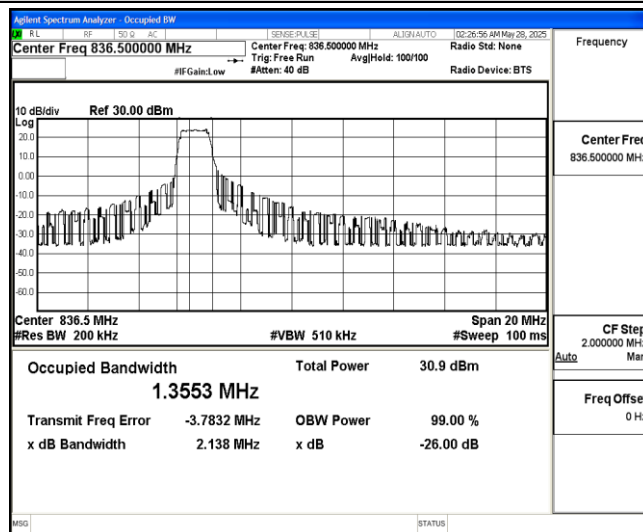
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Band5-5MHz-16QAM-20625-6-0-High-1.1746-1.434-PASS



Band5-10MHz-QPSK-20450-6-0-Low-1.3052-2.151-PASS



Band5-10MHz-QPSK-20525-6-0-Low-1.3553-2.138-PASS

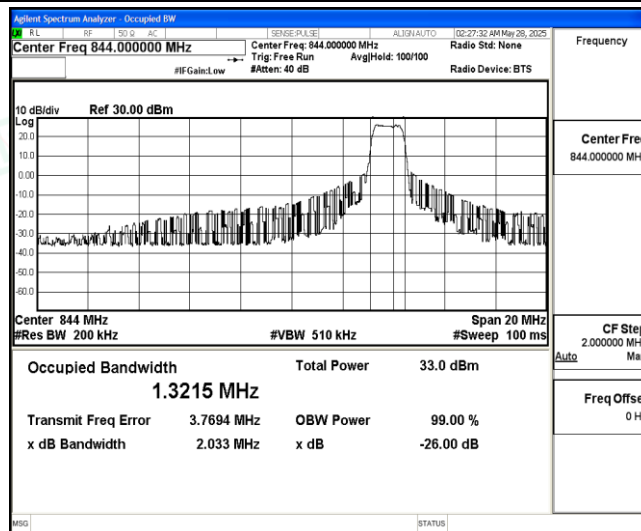


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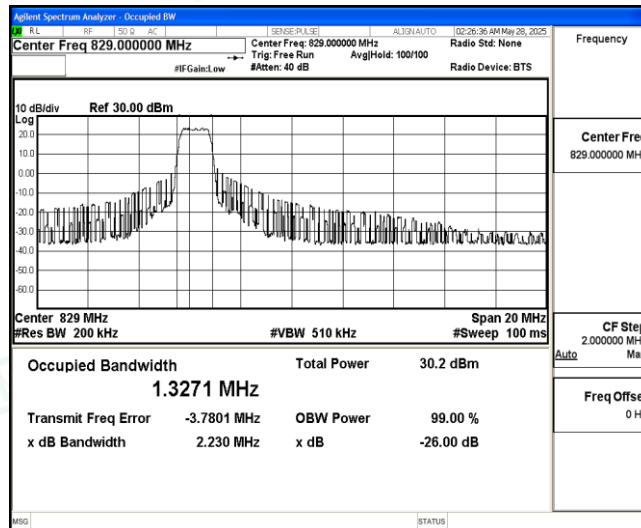
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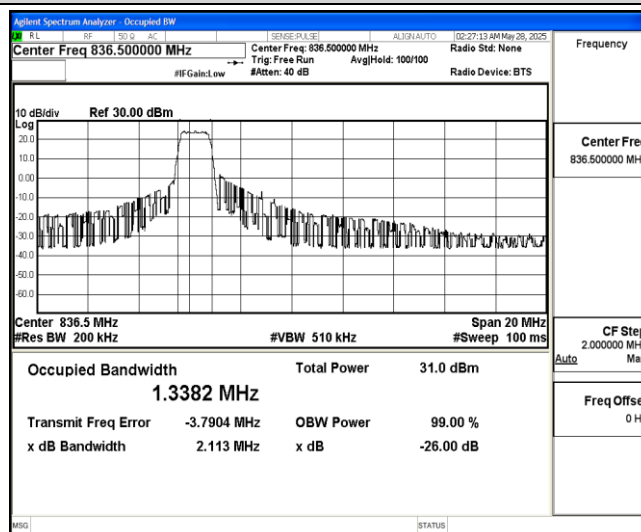
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Band5-10MHz-QPSK-20600-6-0-High-1.3215-2.033-PASS



Band5-10MHz-16QAM-20450-6-0-Low-1.3271-2.230-PASS



Band5-10MHz-16QAM-20525-6-0-Low-1.3382-2.113-PASS

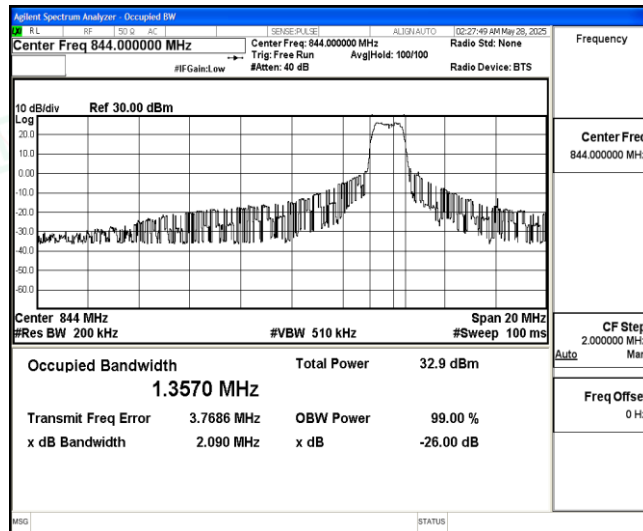


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Band5-10MHz-16QAM-20600-6-0-High-1.3570-2.090-PASS



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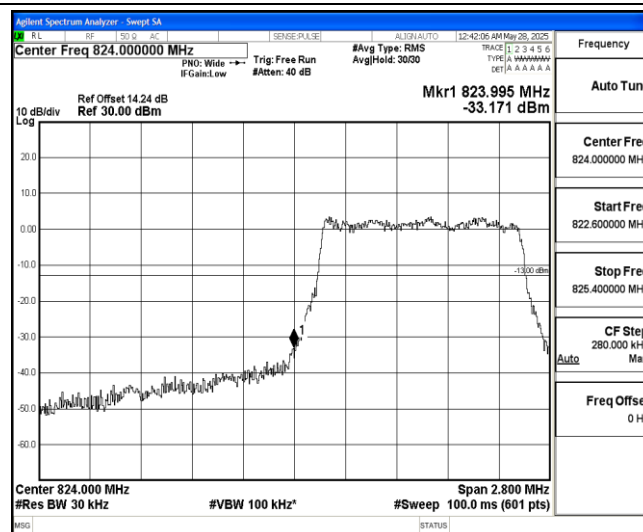


E.4 Band Edge for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	-33.17	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	-32.11	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	-32.75	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	-32.75	PASS
Band5	3MHz	20415	QPSK	6	0	Low	-35.36	PASS
Band5	3MHz	20635	QPSK	6	0	High	-33.44	PASS
Band5	3MHz	20415	16QAM	6	0	Low	-35.87	PASS
Band5	3MHz	20635	16QAM	6	0	High	-29.81	PASS
Band5	5MHz	20425	QPSK	6	0	Low	-30.35	PASS
Band5	5MHz	20625	QPSK	6	0	High	-27.44	PASS
Band5	5MHz	20425	16QAM	6	0	Low	-28.60	PASS
Band5	5MHz	20625	16QAM	6	0	High	-28.28	PASS
Band5	10MHz	20450	QPSK	6	0	Low	-32.56	PASS
Band5	10MHz	20600	QPSK	6	0	High	-29.88	PASS
Band5	10MHz	20450	16QAM	6	0	Low	-31.02	PASS
Band5	10MHz	20600	16QAM	6	0	High	-27.87	PASS

Test Graphs



Band5-1.4MHz-QPSK-20407-6-0-Low--33.17-PASS



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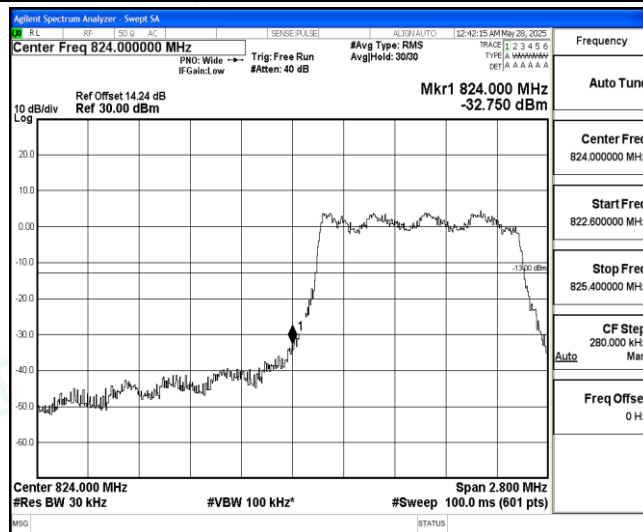
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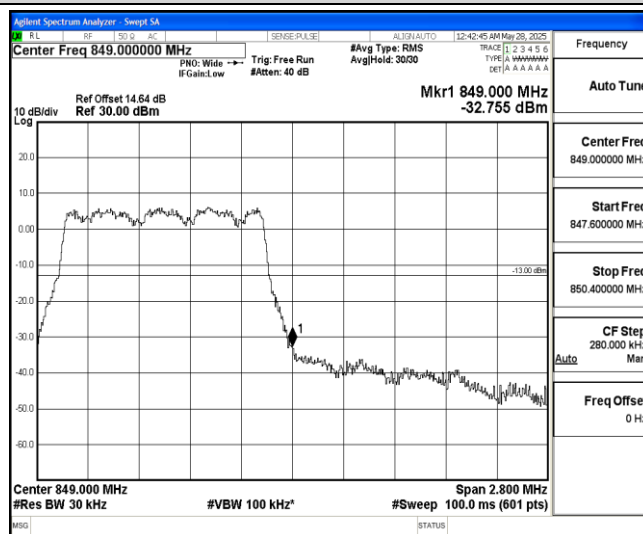
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Band5-1.4MHz-QPSK-20643-6-0-High--32.11-PASS



Band5-1.4MHz-16QAM-20407-6-0-Low--32.75-PASS



Band5-1.4MHz-16QAM-20643-6-0-High--32.75-PASS

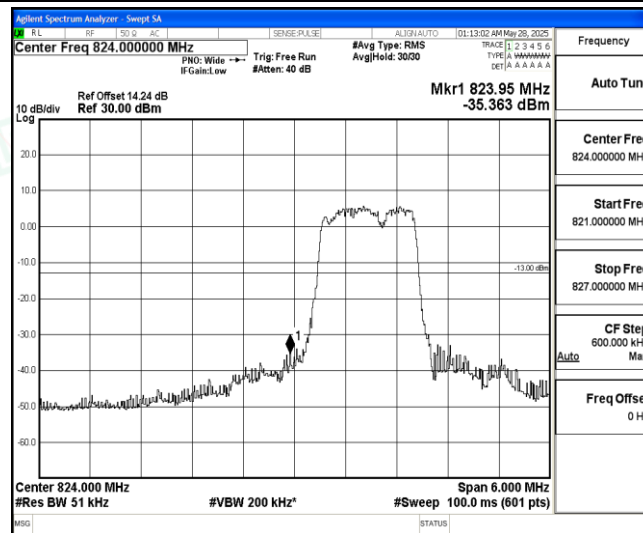


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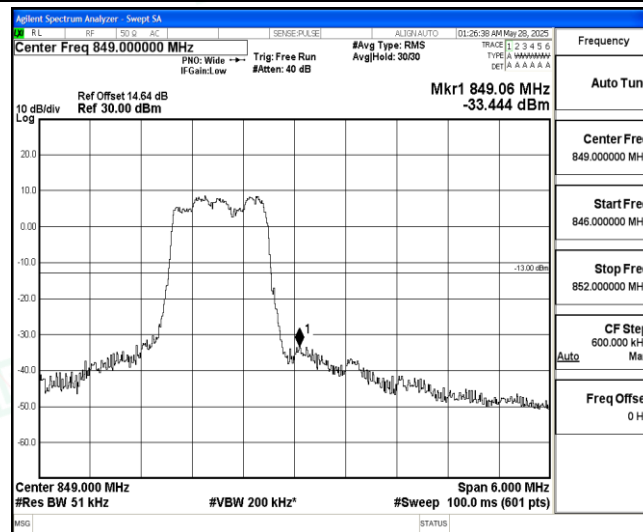
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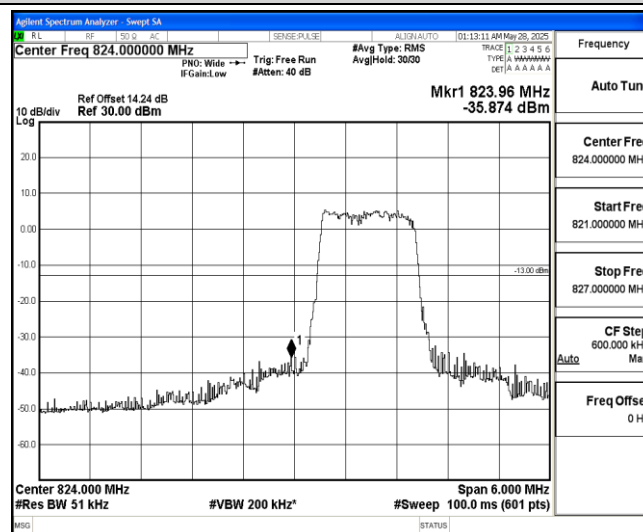
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Band5-3MHz-QPSK-20415-6-0-Low--35.36-PASS



Band5-3MHz-QPSK-20635-6-0-High--33.44-PASS



Band5-3MHz-16QAM-20415-6-0-Low--35.87-PASS

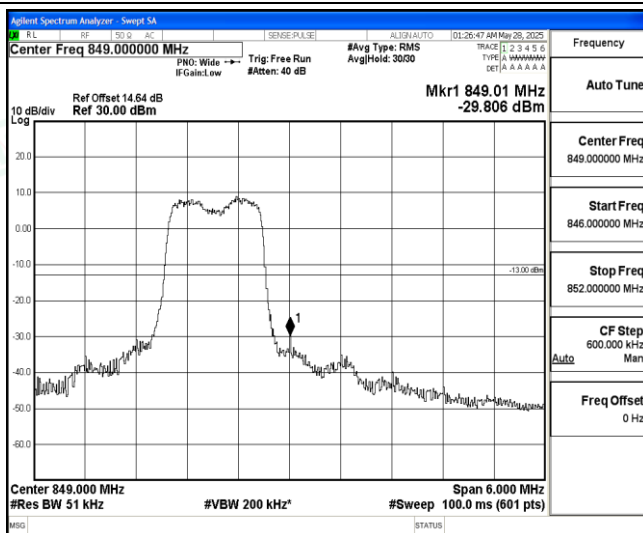


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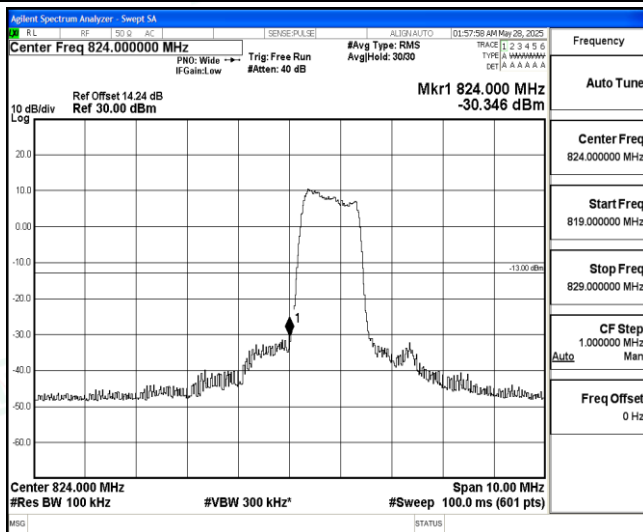
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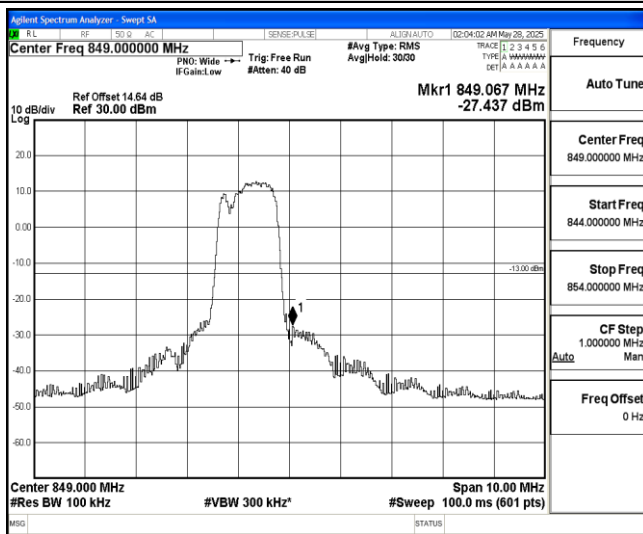
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Band5-3MHz-16QAM-20635-6-0-High--29.81-PASS



Band5-5MHz-QPSK-20425-6-0-Low--30.35-PASS



Band5-5MHz-QPSK-20625-6-0-High--27.44-PASS

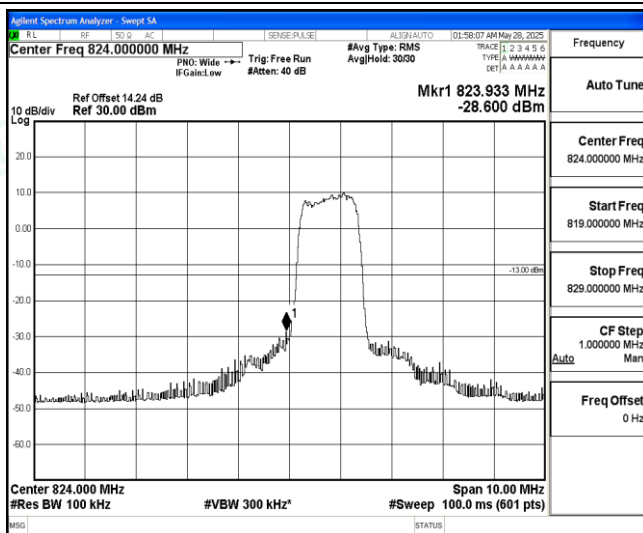


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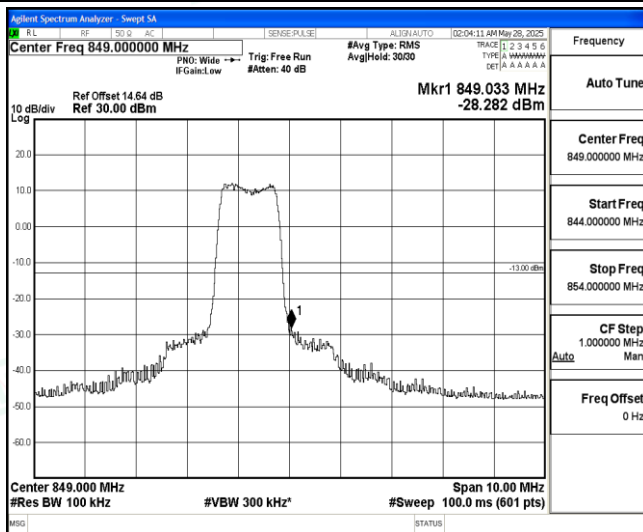
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

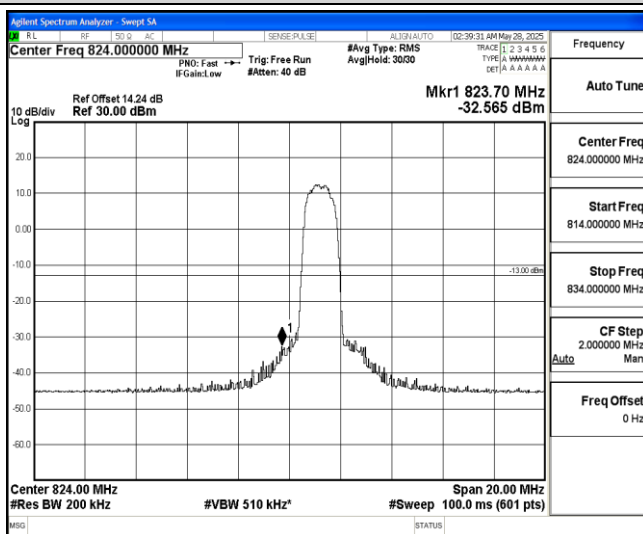
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Band5-5MHz-16QAM-20425-6-0-Low--28.60-PASS



Band5-5MHz-16QAM-20625-6-0-High--28.28-PASS



Band5-10MHz-QPSK-20450-6-0-Low--32.56-PASS

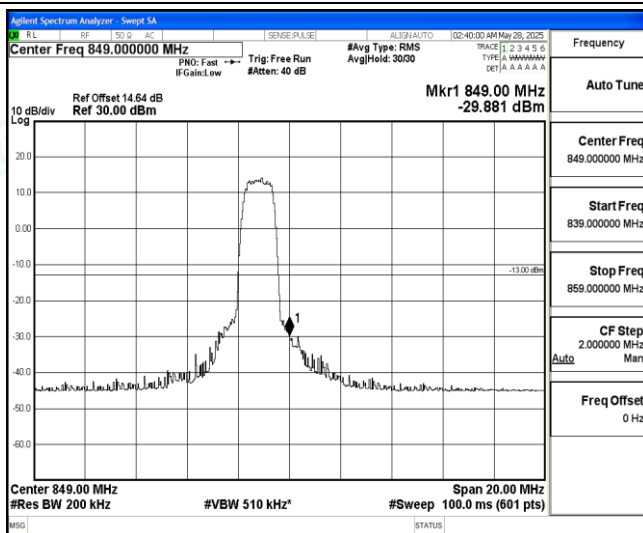


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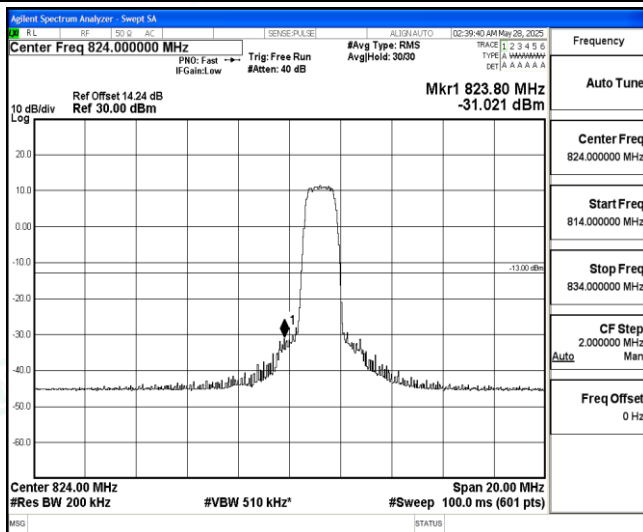
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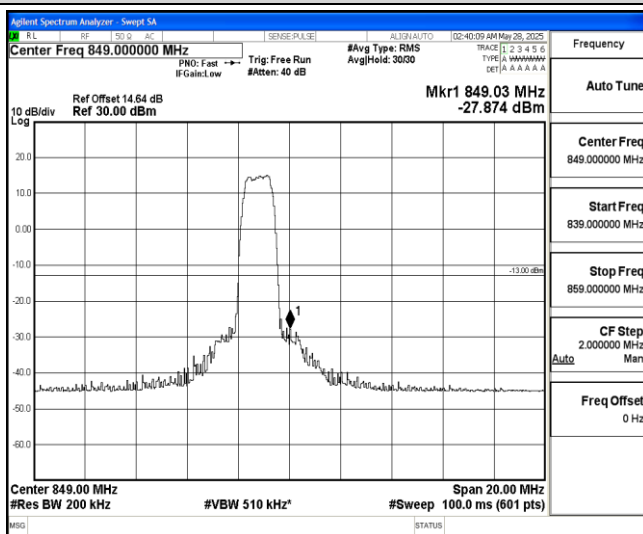
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Band5-10MHz-QPSK-20600-6-0-High--29.88-PASS



Band5-10MHz-16QAM-20450-6-0-Low--31.02-PASS



Band5-10MHz-16QAM-20600-6-0-High--27.87-PASS



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E.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	-29.71	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	1000	5000	-35.43	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	5000	12000	-51.93	PASS
Band5	1.4MHz	20407	QPSK	1	0	Low	12000	26500	-37.03	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	30	1000	-29.49	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	1000	5000	-34.49	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	5000	12000	-51.7	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	12000	26500	-36.63	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	30	1000	-30.2	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	1000	5000	-35.86	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	5000	12000	-51.65	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	12000	26500	-36.62	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	30	1000	-30.47	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	1000	5000	-36.44	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	5000	12000	-52.11	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	12000	26500	-36.87	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	30	1000	-30.78	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	1000	5000	-35.94	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	5000	12000	-51.61	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	12000	26500	-36.72	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	30	1000	-29.66	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	1000	5000	-36.01	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	5000	12000	-51.76	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	12000	26500	-36.68	PASS
Band5	3MHz	20415	QPSK	1	0	Low	30	1000	-30.85	PASS
Band5	3MHz	20415	QPSK	1	0	Low	1000	5000	-36.28	PASS
Band5	3MHz	20415	QPSK	1	0	Low	5000	12000	-51.89	PASS
Band5	3MHz	20415	QPSK	1	0	Low	12000	26500	-37.21	PASS
Band5	3MHz	20525	QPSK	1	0	Low	30	1000	-30.05	PASS
Band5	3MHz	20525	QPSK	1	0	Low	1000	5000	-35.78	PASS
Band5	3MHz	20525	QPSK	1	0	Low	5000	12000	-51.69	PASS
Band5	3MHz	20525	QPSK	1	0	Low	12000	26500	-36.52	PASS
Band5	3MHz	20635	QPSK	1	0	High	30	1000	-30.17	PASS



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Band5	3MHz	20635	QPSK	1	0	High	1000	5000	-35.78	PASS
Band5	3MHz	20635	QPSK	1	0	High	5000	12000	-51.67	PASS
Band5	3MHz	20635	QPSK	1	0	High	12000	26500	-36.6	PASS
Band5	3MHz	20415	16QAM	1	0	Low	30	1000	-30.56	PASS
Band5	3MHz	20415	16QAM	1	0	Low	1000	5000	-36.37	PASS
Band5	3MHz	20415	16QAM	1	0	Low	5000	12000	-52.1	PASS
Band5	3MHz	20415	16QAM	1	0	Low	12000	26500	-36.85	PASS
Band5	3MHz	20525	16QAM	1	0	Low	30	1000	-28.06	PASS
Band5	3MHz	20525	16QAM	1	0	Low	1000	5000	-36	PASS
Band5	3MHz	20525	16QAM	1	0	Low	5000	12000	-51.66	PASS
Band5	3MHz	20525	16QAM	1	0	Low	12000	26500	-36.74	PASS
Band5	3MHz	20635	16QAM	1	0	High	30	1000	-29.69	PASS
Band5	3MHz	20635	16QAM	1	0	High	1000	5000	-35.77	PASS
Band5	3MHz	20635	16QAM	1	0	High	5000	12000	-51.46	PASS
Band5	3MHz	20635	16QAM	1	0	High	12000	26500	-36.59	PASS
Band5	5MHz	20425	QPSK	1	0	Low	30	1000	-30.39	PASS
Band5	5MHz	20425	QPSK	1	0	Low	1000	5000	-36.35	PASS
Band5	5MHz	20425	QPSK	1	0	Low	5000	12000	-51.95	PASS
Band5	5MHz	20425	QPSK	1	0	Low	12000	26500	-37.07	PASS
Band5	5MHz	20525	QPSK	1	0	Low	30	1000	-29.36	PASS
Band5	5MHz	20525	QPSK	1	0	Low	1000	5000	-35.96	PASS
Band5	5MHz	20525	QPSK	1	0	Low	5000	12000	-51.51	PASS
Band5	5MHz	20525	QPSK	1	0	Low	12000	26500	-36.69	PASS
Band5	5MHz	20625	QPSK	1	0	High	30	1000	-30.1	PASS
Band5	5MHz	20625	QPSK	1	0	High	1000	5000	-35.85	PASS
Band5	5MHz	20625	QPSK	1	0	High	5000	12000	-51.61	PASS
Band5	5MHz	20625	QPSK	1	0	High	12000	26500	-36.8	PASS
Band5	5MHz	20425	16QAM	1	0	Low	30	1000	-29.98	PASS
Band5	5MHz	20425	16QAM	1	0	Low	1000	5000	-36.29	PASS
Band5	5MHz	20425	16QAM	1	0	Low	5000	12000	-52.09	PASS
Band5	5MHz	20425	16QAM	1	0	Low	12000	26500	-37.05	PASS
Band5	5MHz	20525	16QAM	1	0	Low	30	1000	-30.17	PASS
Band5	5MHz	20525	16QAM	1	0	Low	1000	5000	-35.83	PASS
Band5	5MHz	20525	16QAM	1	0	Low	5000	12000	-51.7	PASS
Band5	5MHz	20525	16QAM	1	0	Low	12000	26500	-36.71	PASS
Band5	5MHz	20625	16QAM	1	0	High	30	1000	-30.13	PASS
Band5	5MHz	20625	16QAM	1	0	High	1000	5000	-35.77	PASS
Band5	5MHz	20625	16QAM	1	0	High	5000	12000	-51.48	PASS
Band5	5MHz	20625	16QAM	1	0	High	12000	26500	-36.57	PASS
Band5	10MHz	20450	QPSK	1	0	Low	30	1000	-30.22	PASS



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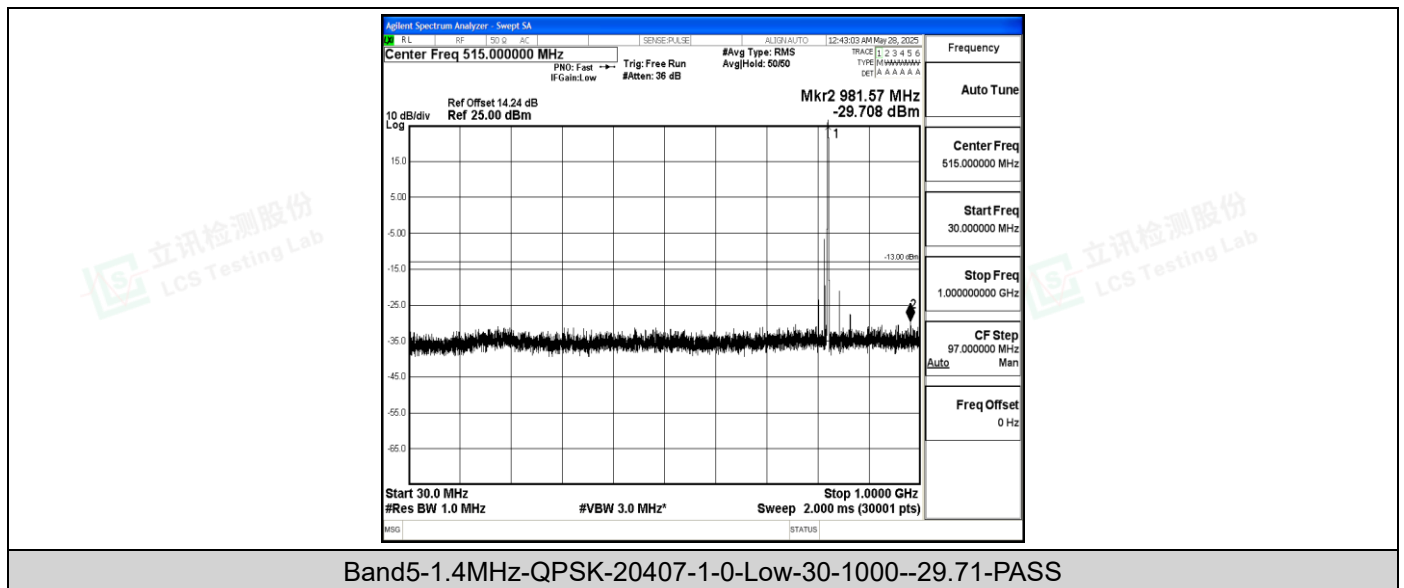
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Band5	10MHz	20450	QPSK	1	0	Low	1000	5000	-35.91	PASS
Band5	10MHz	20450	QPSK	1	0	Low	5000	12000	-52.07	PASS
Band5	10MHz	20450	QPSK	1	0	Low	12000	26500	-37.02	PASS
Band5	10MHz	20525	QPSK	1	0	Low	30	1000	-28.76	PASS
Band5	10MHz	20525	QPSK	1	0	Low	1000	5000	-35.96	PASS
Band5	10MHz	20525	QPSK	1	0	Low	5000	12000	-51.5	PASS
Band5	10MHz	20525	QPSK	1	0	Low	12000	26500	-36.56	PASS
Band5	10MHz	20600	QPSK	1	0	High	30	1000	-29.87	PASS
Band5	10MHz	20600	QPSK	1	0	High	1000	5000	-35.84	PASS
Band5	10MHz	20600	QPSK	1	0	High	5000	12000	-51.71	PASS
Band5	10MHz	20600	QPSK	1	0	High	12000	26500	-36.75	PASS
Band5	10MHz	20450	16QAM	1	0	Low	30	1000	-29.77	PASS
Band5	10MHz	20450	16QAM	1	0	Low	1000	5000	-36.34	PASS
Band5	10MHz	20450	16QAM	1	0	Low	5000	12000	-52	PASS
Band5	10MHz	20450	16QAM	1	0	Low	12000	26500	-37.17	PASS
Band5	10MHz	20525	16QAM	1	0	Low	30	1000	-29.81	PASS
Band5	10MHz	20525	16QAM	1	0	Low	1000	5000	-35.87	PASS
Band5	10MHz	20525	16QAM	1	0	Low	5000	12000	-51.59	PASS
Band5	10MHz	20525	16QAM	1	0	Low	12000	26500	-36.82	PASS
Band5	10MHz	20600	16QAM	1	0	High	30	1000	-30.29	PASS
Band5	10MHz	20600	16QAM	1	0	High	1000	5000	-35.8	PASS
Band5	10MHz	20600	16QAM	1	0	High	5000	12000	-51.68	PASS
Band5	10MHz	20600	16QAM	1	0	High	12000	26500	-36.55	PASS

Test Graphs

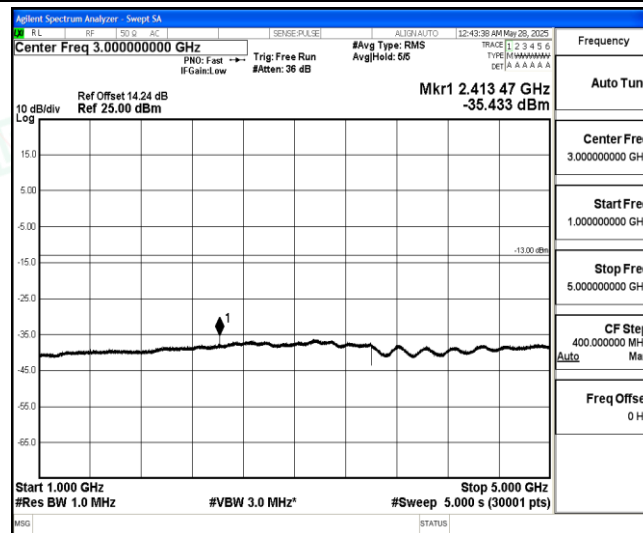


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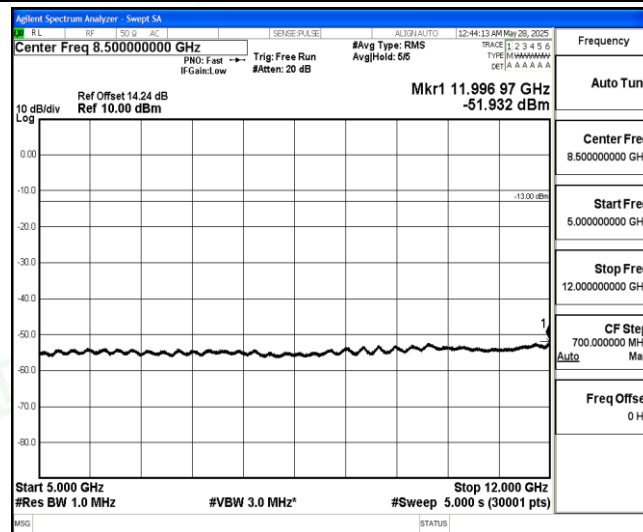
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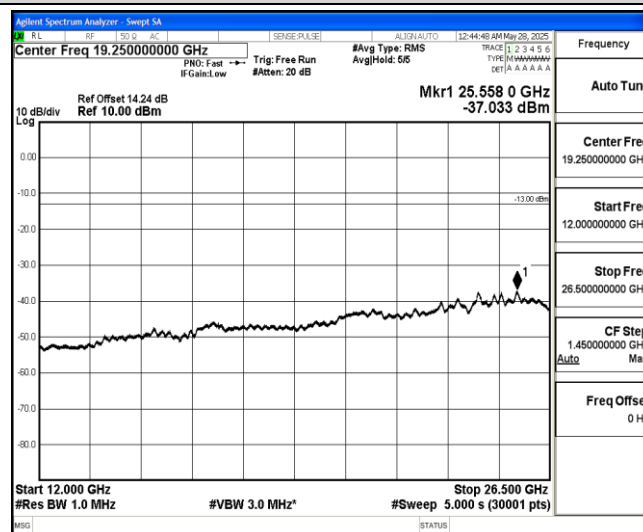
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Band5-1.4MHz-QPSK-20407-1-0-Low-1000-5000--35.43-PASS



Band5-1.4MHz-QPSK-20407-1-0-Low-5000-12000--51.93-PASS



Band5-1.4MHz-QPSK-20407-1-0-Low-12000-26500--37.03-PASS

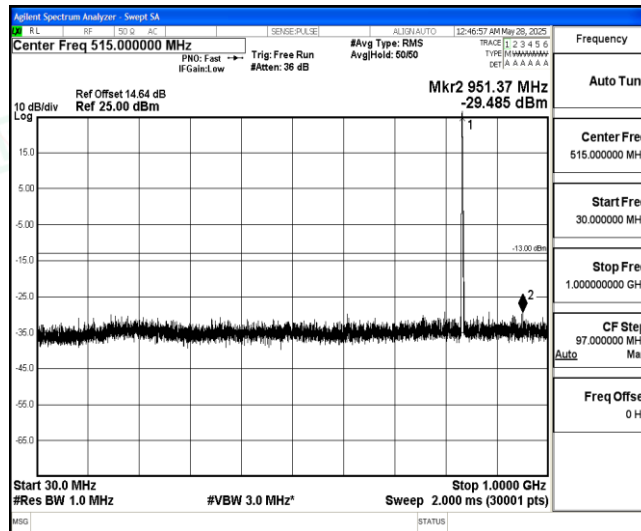


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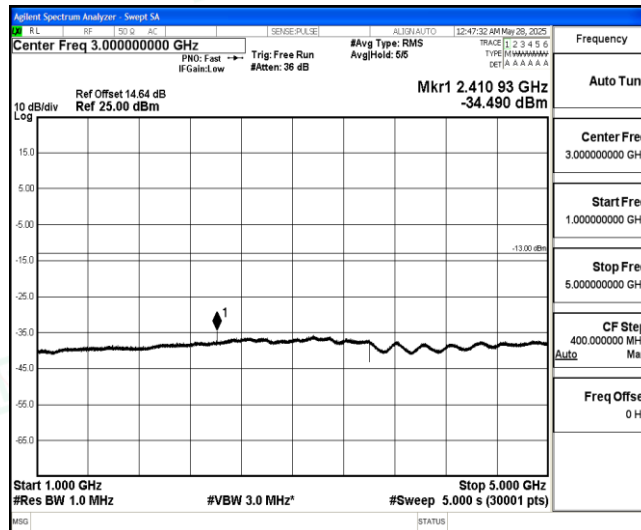
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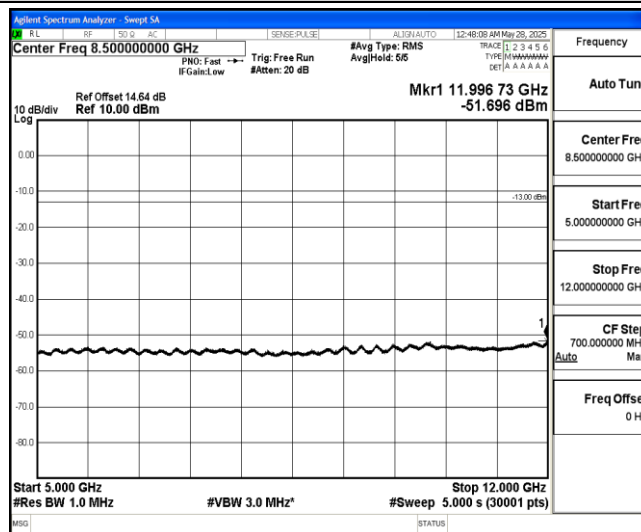
Scan code to check authenticity



Band5-1.4MHz-QPSK-20525-1-0-Low-30-1000--29.49-PASS



Band5-1.4MHz-QPSK-20525-1-0-Low-1000-5000--34.49-PASS



Band5-1.4MHz-QPSK-20525-1-0-Low-5000-12000--51.7-PASS

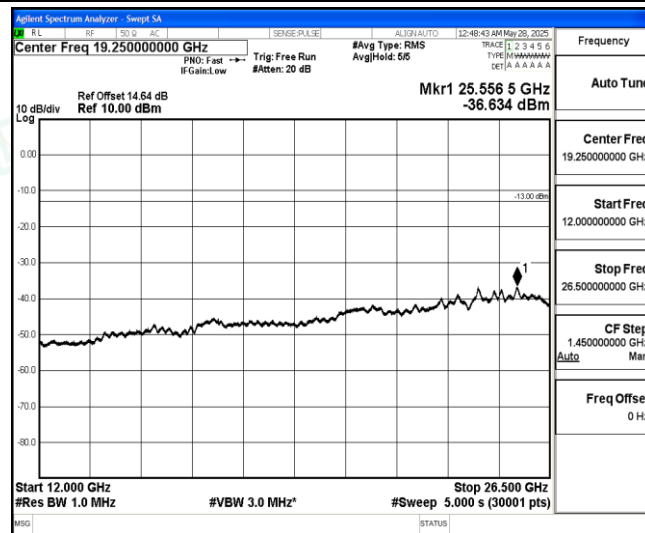


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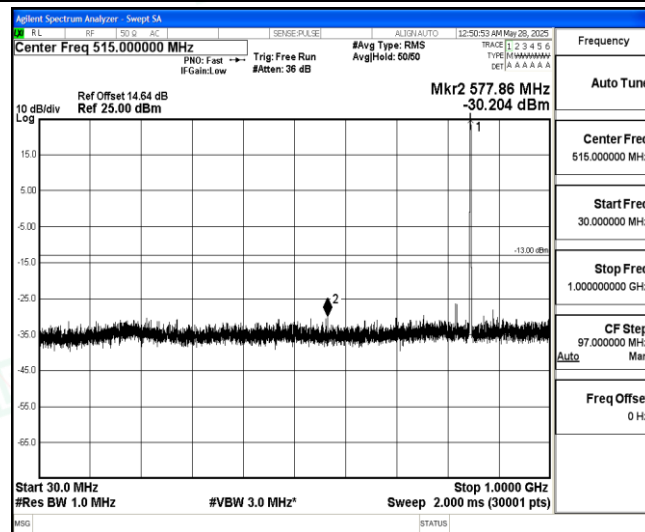
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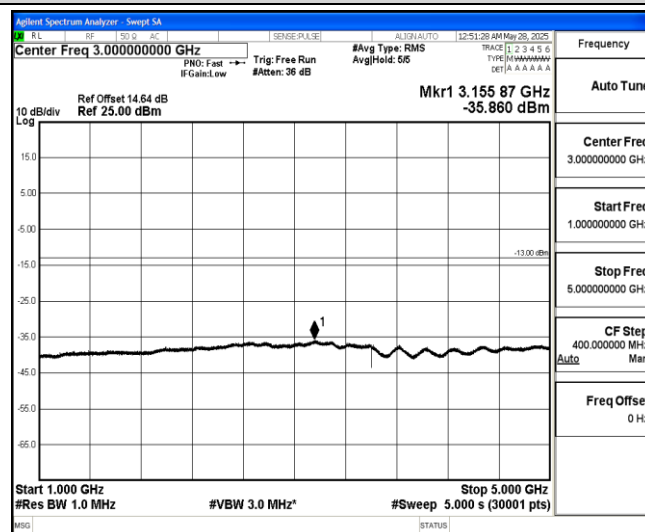
Scan code to check authenticity



Band5-1.4MHz-QPSK-20525-1-0-Low-12000-26500--36.63-PASS



Band5-1.4MHz-QPSK-20643-1-0-High-30-1000--30.2-PASS



Band5-1.4MHz-QPSK-20643-1-0-High-1000-5000--35.86-PASS

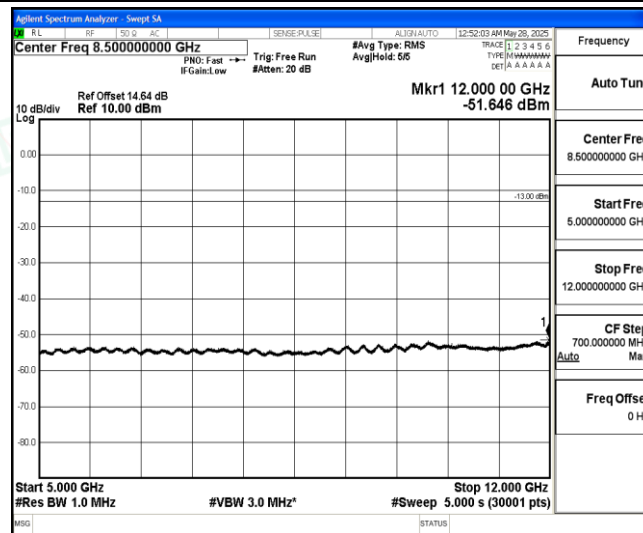


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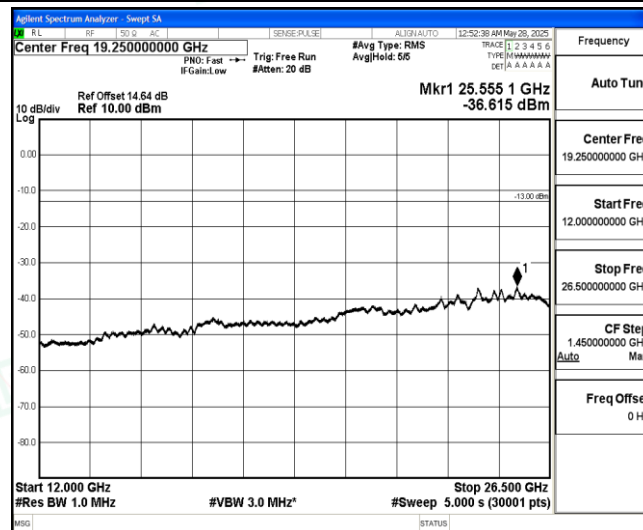
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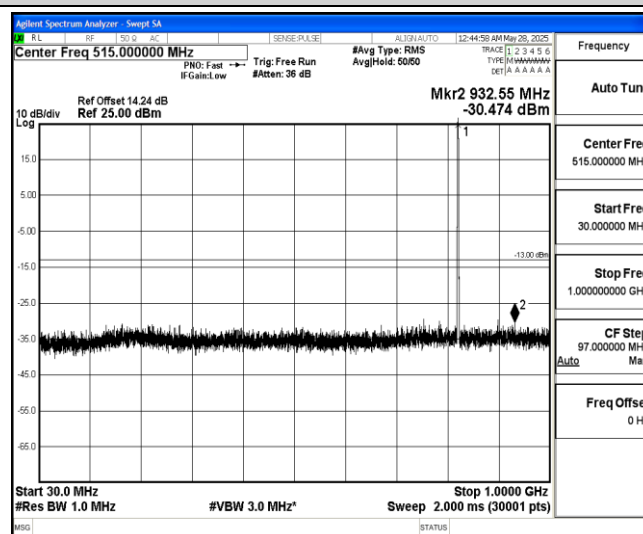
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Band5-1.4MHz-QPSK-20643-1-0-High-5000-12000--51.65-PASS



Band5-1.4MHz-QPSK-20643-1-0-High-12000-26500--36.62-PASS



Band5-1.4MHz-16QAM-20407-1-0-Low-30-1000--30.47-PASS

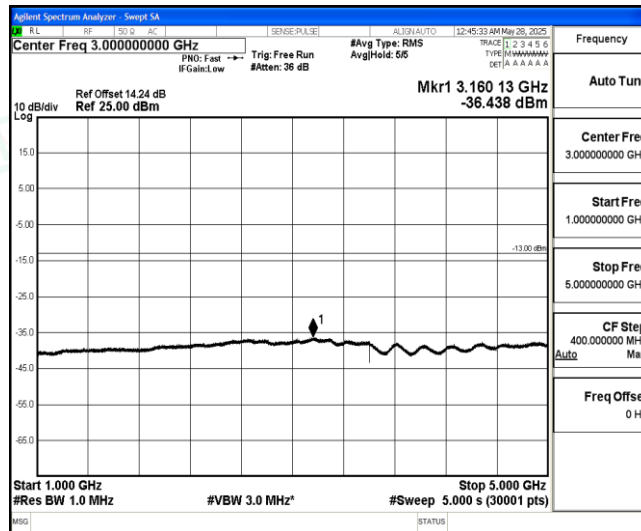


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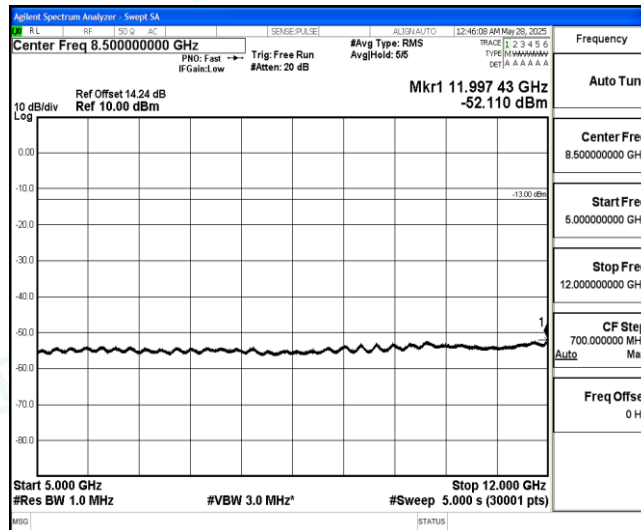
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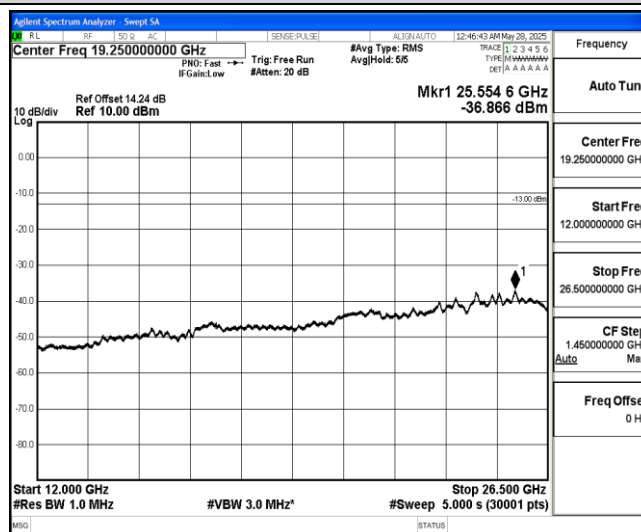
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Band5-1.4MHz-16QAM-20407-1-0-Low-1000-5000--36.44-PASS



Band5-1.4MHz-16QAM-20407-1-0-Low-5000-12000--52.11-PASS



Band5-1.4MHz-16QAM-20407-1-0-Low-12000-26500--36.87-PASS

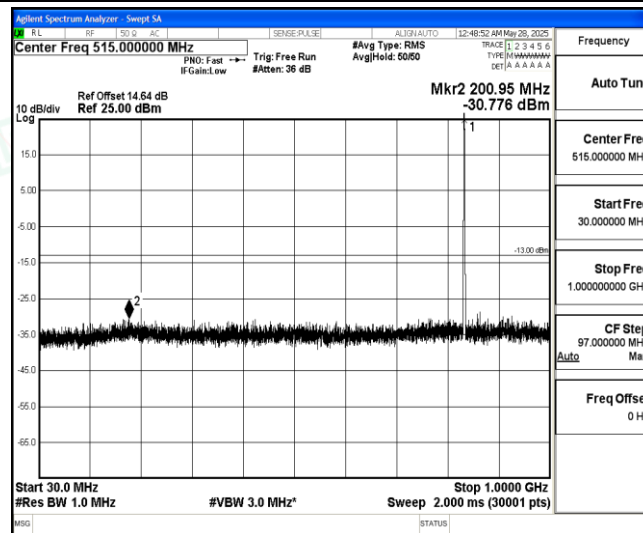


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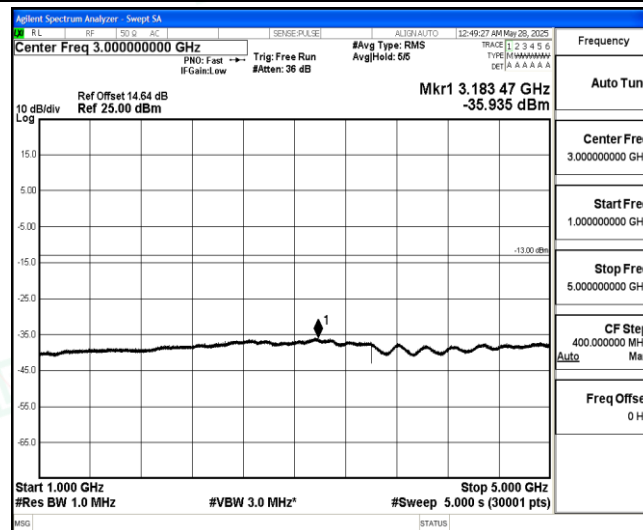
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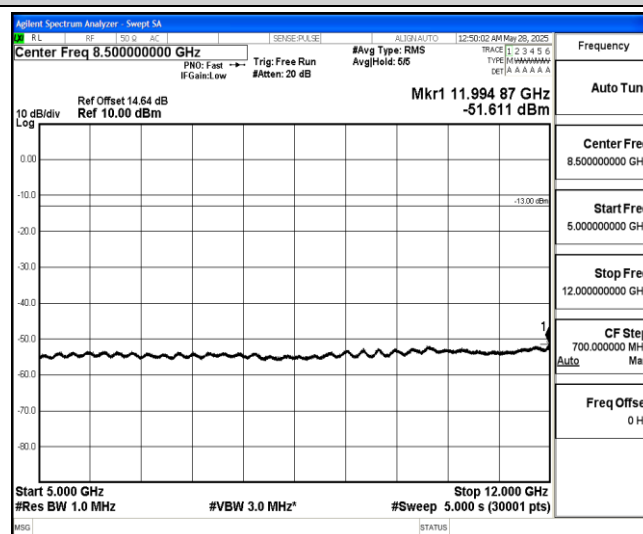
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Band5-1.4MHz-16QAM-20525-1-0-Low-30-1000--30.78-PASS



Band5-1.4MHz-16QAM-20525-1-0-Low-1000-5000--35.94-PASS



Band5-1.4MHz-16QAM-20525-1-0-Low-5000-12000--51.61-PASS



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