

FCC EMTC Band 5 Test Data

General Description of EUT	
Product Name:	Tractive Dog 6
Test Model:	TG6A
Sample ID:	HC-C-202403-0336-01-04#
Environmental Conditions	
Temperature:	22°C-25°C
Relative Humidity:	43%-55%
Test Voltage:	DC 3.87V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202403-0336-93. The report only show the worst case data.	

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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	24.38	PASS
Band5	1.4MHz	20407	QPSK	1	5	Low	24.34	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	22.31	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	24.44	PASS
Band5	1.4MHz	20525	QPSK	1	5	Low	24.35	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	22.36	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	24.37	PASS
Band5	1.4MHz	20643	QPSK	1	5	High	24.25	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	22.31	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	23.21	PASS
Band5	1.4MHz	20407	16QAM	1	5	Low	23.11	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	22.38	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	23.23	PASS
Band5	1.4MHz	20525	16QAM	1	5	Low	23.16	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	22.34	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	23.25	PASS
Band5	1.4MHz	20643	16QAM	1	5	High	23.17	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	22.30	PASS
Band5	3MHz	20415	QPSK	1	0	Low	24.41	PASS
Band5	3MHz	20415	QPSK	1	5	Low	24.37	PASS
Band5	3MHz	20415	QPSK	6	0	Low	22.35	PASS
Band5	3MHz	20525	QPSK	1	0	Low	24.45	PASS
Band5	3MHz	20525	QPSK	1	5	Low	24.37	PASS
Band5	3MHz	20525	QPSK	6	0	Low	22.40	PASS
Band5	3MHz	20635	QPSK	1	0	High	24.38	PASS
Band5	3MHz	20635	QPSK	1	5	High	24.27	PASS
Band5	3MHz	20635	QPSK	6	0	High	22.35	PASS
Band5	3MHz	20415	16QAM	1	0	Low	23.18	PASS
Band5	3MHz	20415	16QAM	1	5	Low	23.15	PASS
Band5	3MHz	20415	16QAM	6	0	Low	22.33	PASS
Band5	3MHz	20525	16QAM	1	0	Low	23.24	PASS
Band5	3MHz	20525	16QAM	1	5	Low	23.19	PASS
Band5	3MHz	20525	16QAM	6	0	Low	22.41	PASS

Band5	3MHz	20635	16QAM	1	0	High	23.31	PASS
Band5	3MHz	20635	16QAM	1	5	High	23.20	PASS
Band5	3MHz	20635	16QAM	6	0	High	22.34	PASS
Band5	5MHz	20425	QPSK	1	0	Low	24.00	PASS
Band5	5MHz	20425	QPSK	1	5	Low	23.94	PASS
Band5	5MHz	20425	QPSK	6	0	Low	22.85	PASS
Band5	5MHz	20525	QPSK	1	0	Low	23.96	PASS
Band5	5MHz	20525	QPSK	1	5	Low	23.94	PASS
Band5	5MHz	20525	QPSK	6	0	Low	22.88	PASS
Band5	5MHz	20625	QPSK	1	0	High	23.94	PASS
Band5	5MHz	20625	QPSK	1	5	High	23.79	PASS
Band5	5MHz	20625	QPSK	6	0	High	22.74	PASS
Band5	5MHz	20425	16QAM	1	0	Low	24.12	PASS
Band5	5MHz	20425	16QAM	1	5	Low	23.99	PASS
Band5	5MHz	20425	16QAM	6	0	Low	22.83	PASS
Band5	5MHz	20525	16QAM	1	0	Low	24.02	PASS
Band5	5MHz	20525	16QAM	1	5	Low	24.00	PASS
Band5	5MHz	20525	16QAM	6	0	Low	22.86	PASS
Band5	5MHz	20625	16QAM	1	0	High	23.96	PASS
Band5	5MHz	20625	16QAM	1	5	High	23.88	PASS
Band5	5MHz	20625	16QAM	6	0	High	22.73	PASS
Band5	10MHz	20450	QPSK	1	0	Low	24.07	PASS
Band5	10MHz	20450	QPSK	1	5	Low	23.98	PASS
Band5	10MHz	20450	QPSK	6	0	Low	22.87	PASS
Band5	10MHz	20525	QPSK	1	0	Low	24.07	PASS
Band5	10MHz	20525	QPSK	1	5	Low	24.00	PASS
Band5	10MHz	20525	QPSK	6	0	Low	22.92	PASS
Band5	10MHz	20600	QPSK	1	0	High	23.94	PASS
Band5	10MHz	20600	QPSK	1	5	High	23.81	PASS
Band5	10MHz	20600	QPSK	6	0	High	22.76	PASS
Band5	10MHz	20450	16QAM	1	0	Low	24.07	PASS
Band5	10MHz	20450	16QAM	1	5	Low	24.02	PASS
Band5	10MHz	20450	16QAM	6	0	Low	22.84	PASS
Band5	10MHz	20525	16QAM	1	0	Low	24.08	PASS
Band5	10MHz	20525	16QAM	1	5	Low	24.06	PASS
Band5	10MHz	20525	16QAM	6	0	Low	22.91	PASS
Band5	10MHz	20600	16QAM	1	0	High	24.02	PASS
Band5	10MHz	20600	16QAM	1	5	High	23.87	PASS
Band5	10MHz	20600	16QAM	6	0	High	22.76	PASS

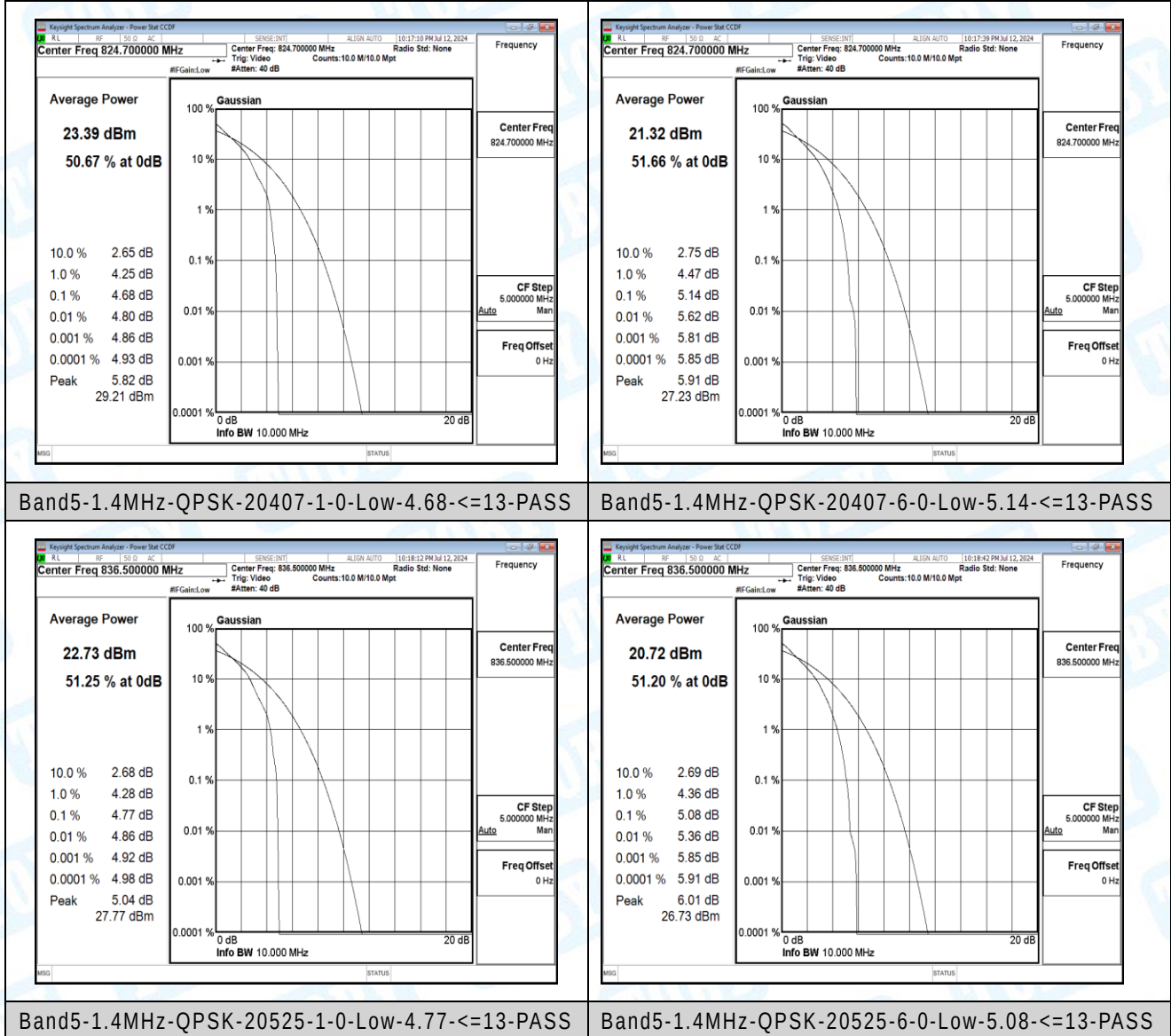
2. Peak-to-Average Ratio(CCDF) for M1

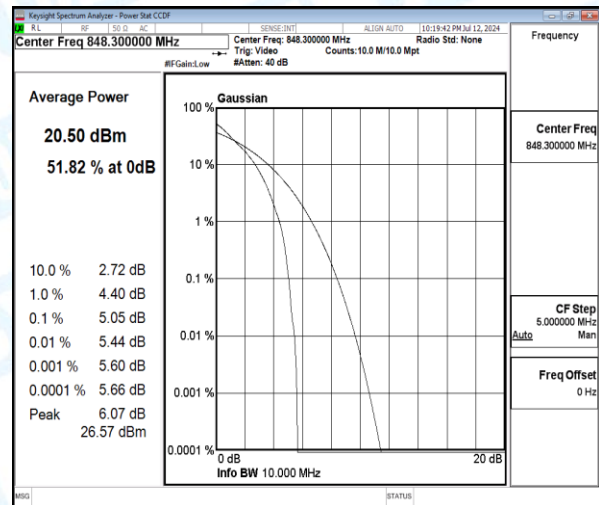
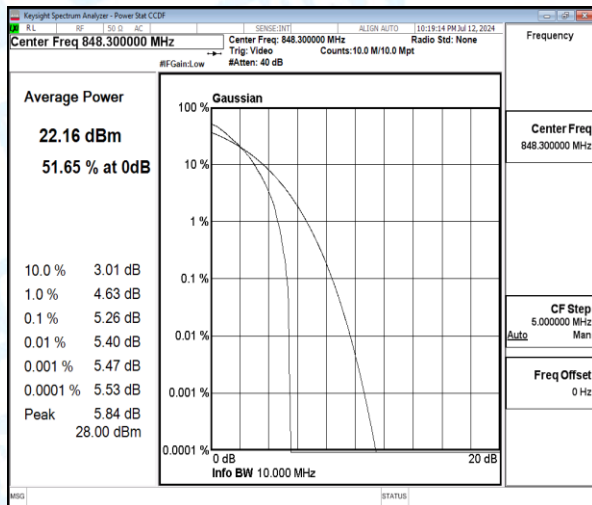
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	4.68	<=13	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	5.14	<=13	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	4.77	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	5.08	<=13	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	5.26	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	5.05	<=13	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	5.07	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	5.19	<=13	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	5.05	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	5.05	<=13	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	5.56	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	5.16	<=13	PASS
Band5	3MHz	20415	QPSK	1	0	Low	4.83	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	5.15	<=13	PASS
Band5	3MHz	20525	QPSK	1	0	Low	4.99	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	5.17	<=13	PASS
Band5	3MHz	20635	QPSK	1	0	High	5.09	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	5.11	<=13	PASS
Band5	3MHz	20415	16QAM	1	0	Low	5.06	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	5.09	<=13	PASS
Band5	3MHz	20525	16QAM	1	0	Low	5.05	<=13	PASS
Band5	3MHz	20525	16QAM	6	0	Low	5.15	<=13	PASS
Band5	3MHz	20635	16QAM	1	0	High	5.66	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	5.09	<=13	PASS
Band5	5MHz	20425	QPSK	1	0	Low	4.58	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	5.56	<=13	PASS
Band5	5MHz	20525	QPSK	1	0	Low	4.88	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	5.05	<=13	PASS
Band5	5MHz	20625	QPSK	1	0	High	5.27	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	5.17	<=13	PASS
Band5	5MHz	20425	16QAM	1	0	Low	5.88	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	5.13	<=13	PASS

Band5	5MHz	20525	16QAM	1	0	Low	6.00	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	5.05	<=13	PASS
Band5	5MHz	20625	16QAM	1	0	High	5.29	<=13	PASS
Band5	5MHz	20625	16QAM	6	0	High	5.26	<=13	PASS
Band5	10MHz	20450	QPSK	1	0	Low	5.05	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	5.15	<=13	PASS
Band5	10MHz	20525	QPSK	1	0	Low	5.02	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	5.08	<=13	PASS
Band5	10MHz	20600	QPSK	1	0	High	5.30	<=13	PASS
Band5	10MHz	20600	QPSK	6	0	High	5.19	<=13	PASS
Band5	10MHz	20450	16QAM	1	0	Low	5.71	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	5.17	<=13	PASS
Band5	10MHz	20525	16QAM	1	0	Low	5.60	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	5.11	<=13	PASS
Band5	10MHz	20600	16QAM	1	0	High	5.67	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	5.15	<=13	PASS

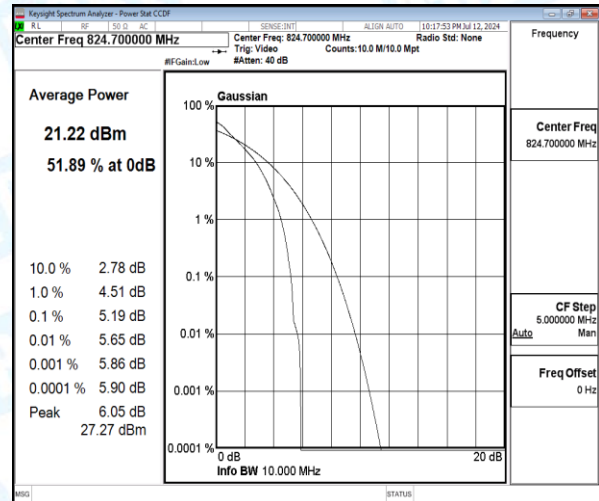
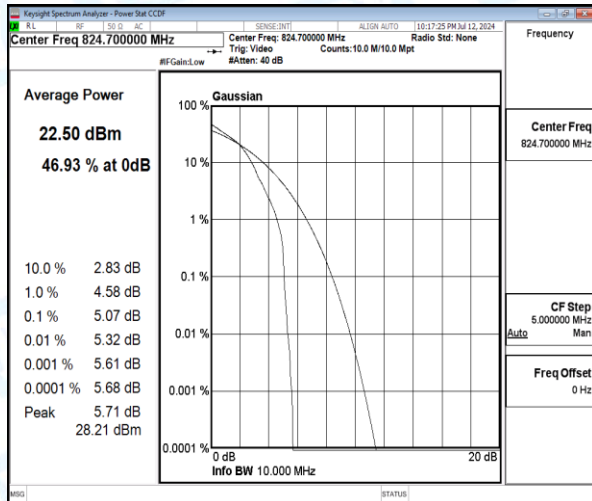
Test Graphs





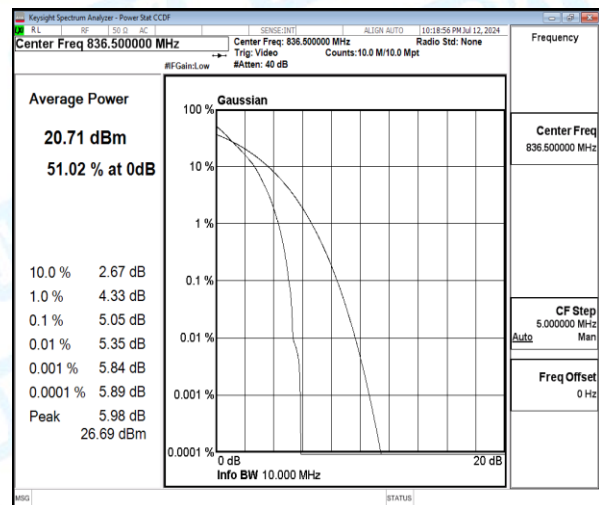
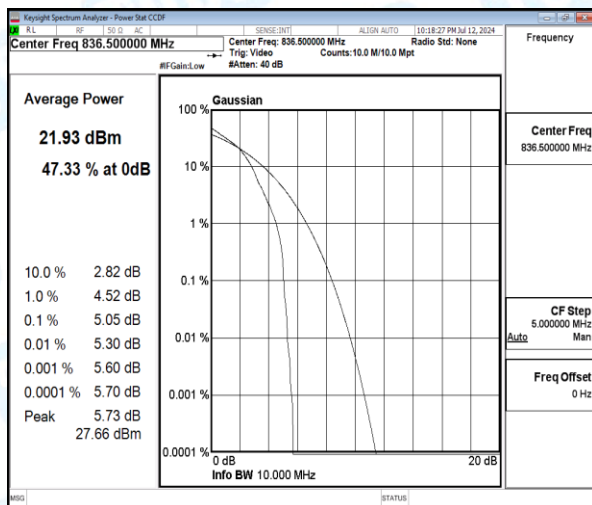
Band5-1.4MHz-QPSK-20643-1-0-High-5.26-13-PASS

Band5-1.4MHz-QPSK-20643-6-0-High-5.05-13-PASS



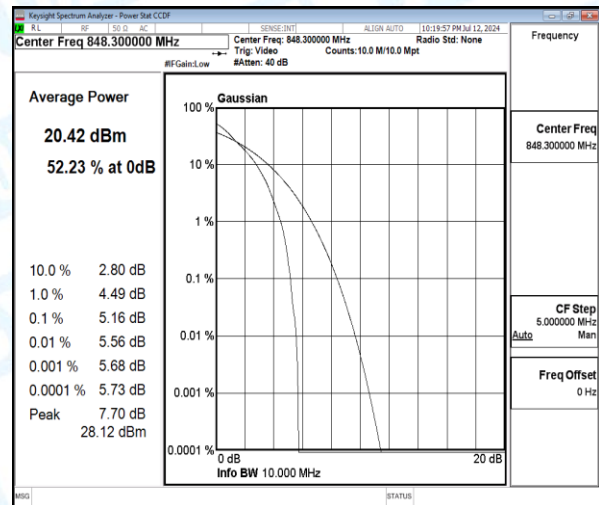
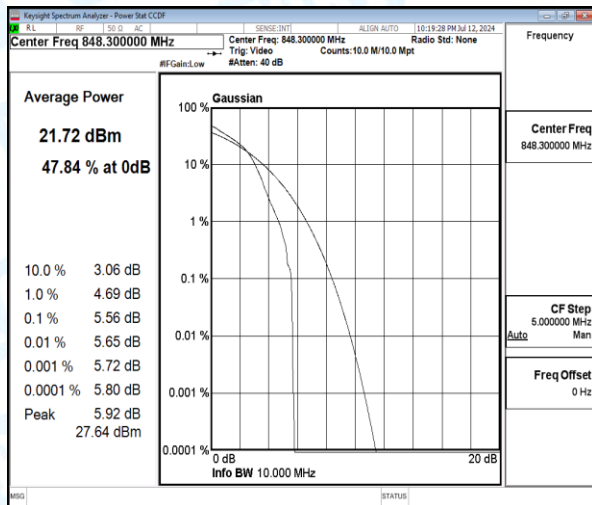
Band5-1.4MHz-16QAM-20407-1-0-Low-5.07-13-PASS

Band5-1.4MHz-16QAM-20407-6-0-Low-5.19-13-PASS



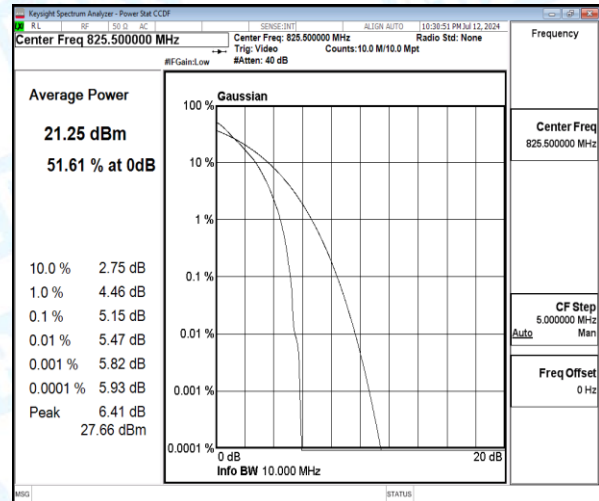
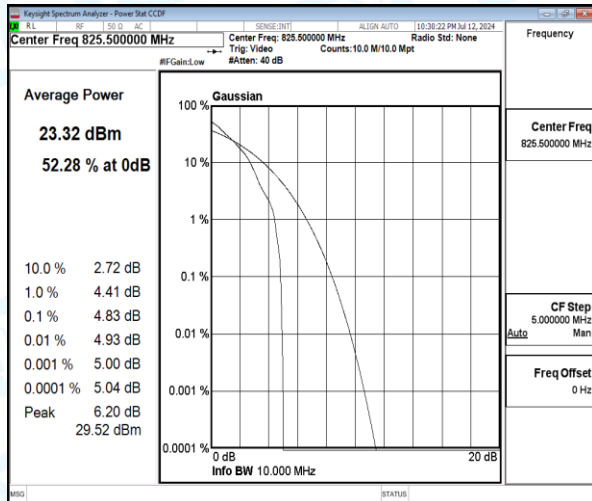
Band5-1.4MHz-16QAM-20525-1-0-Low-5.05-13-PASS

Band5-1.4MHz-16QAM-20525-6-0-Low-5.05-13-PASS



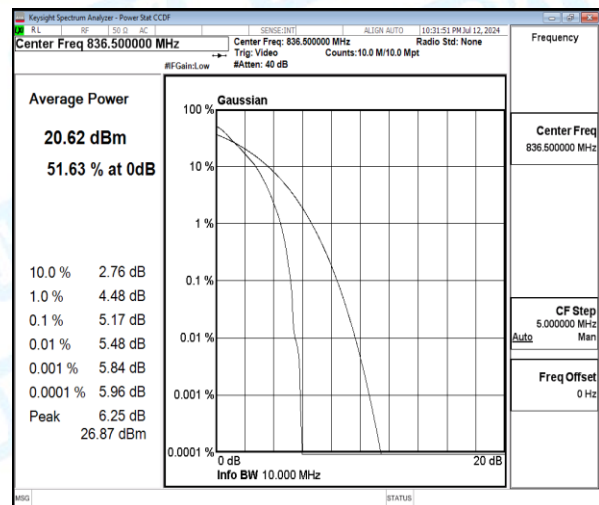
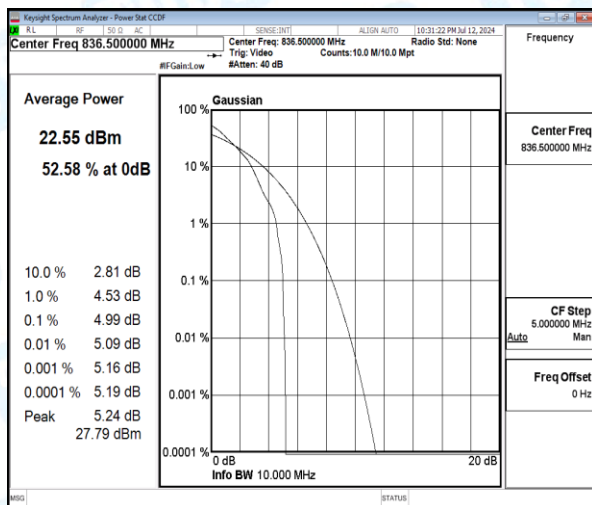
Band5-1.4MHz-16QAM-20643-1-0-High-5.56-<=13-PASS

Band5-1.4MHz-16QAM-20643-6-0-High-5.16-<=13-PASS



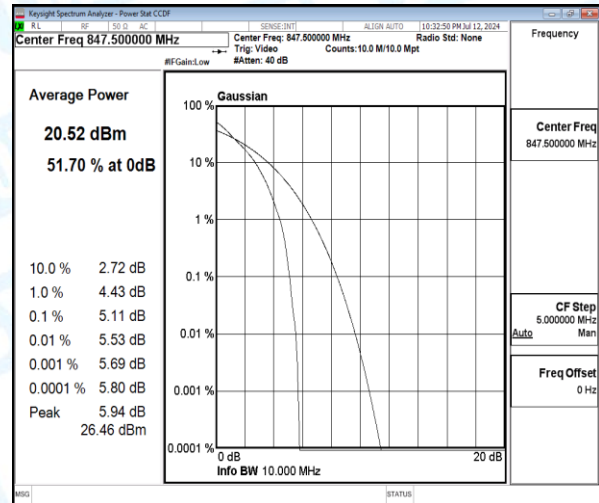
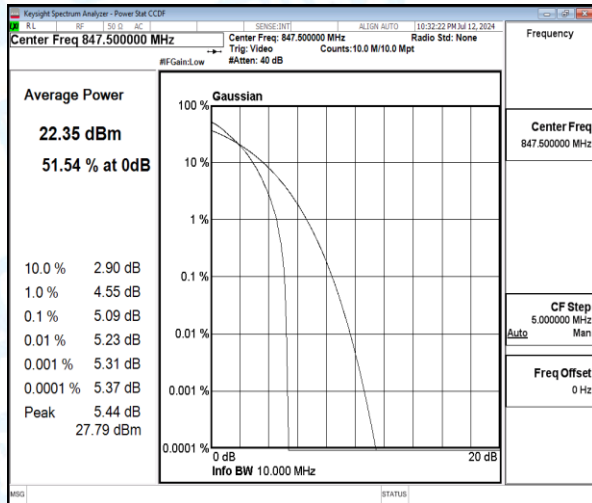
Band5-3MHz-QPSK-20415-1-0-Low-4.83-<=13-PASS

Band5-3MHz-QPSK-20415-6-0-Low-5.15-<=13-PASS



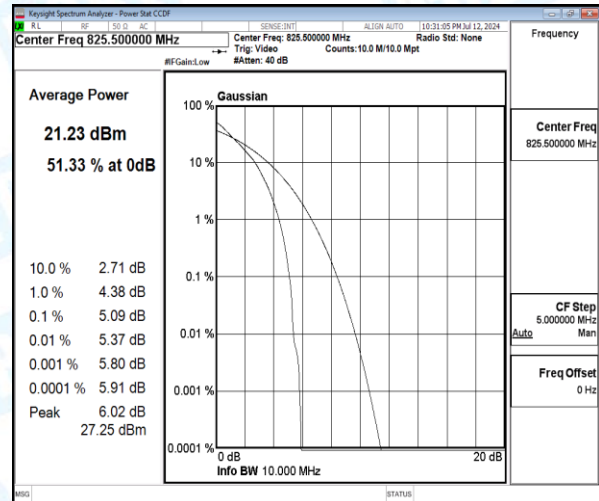
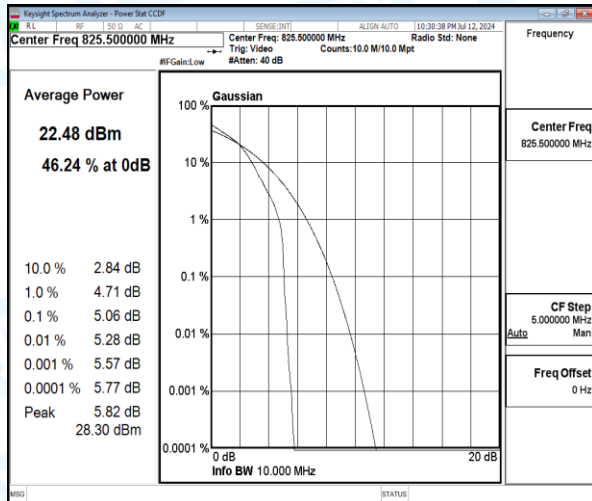
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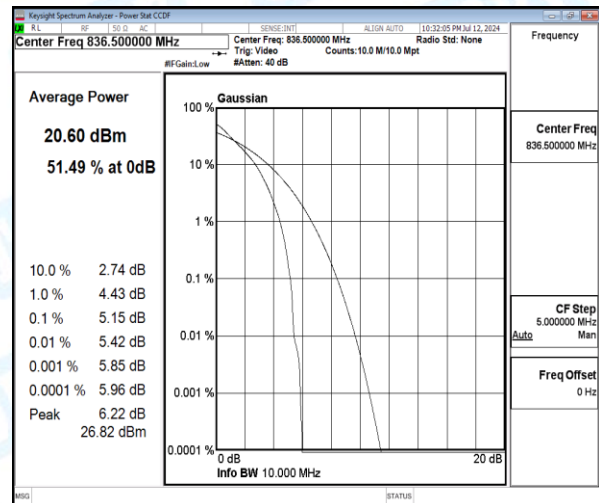
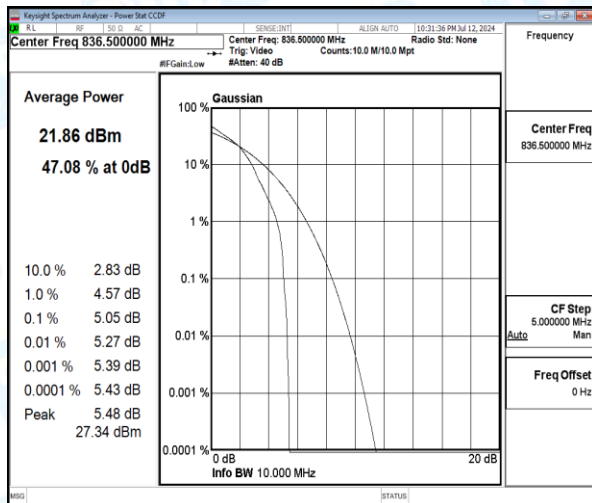
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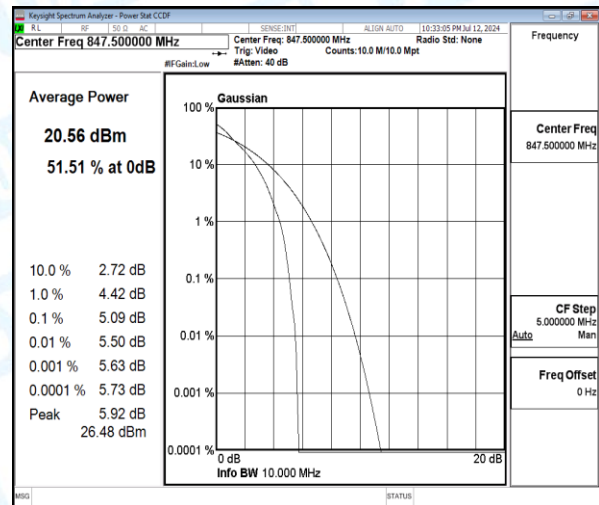
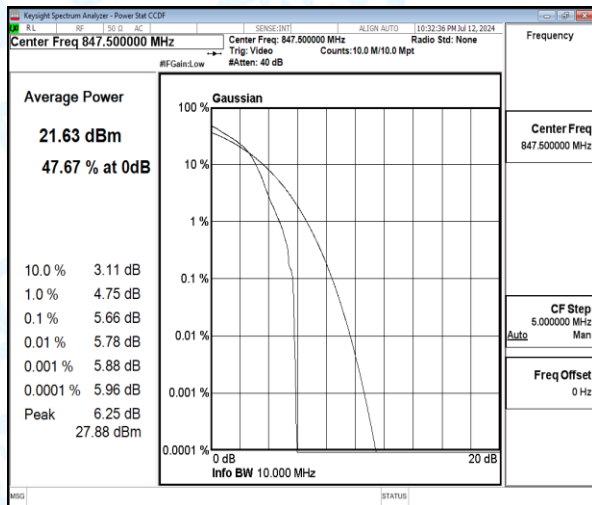
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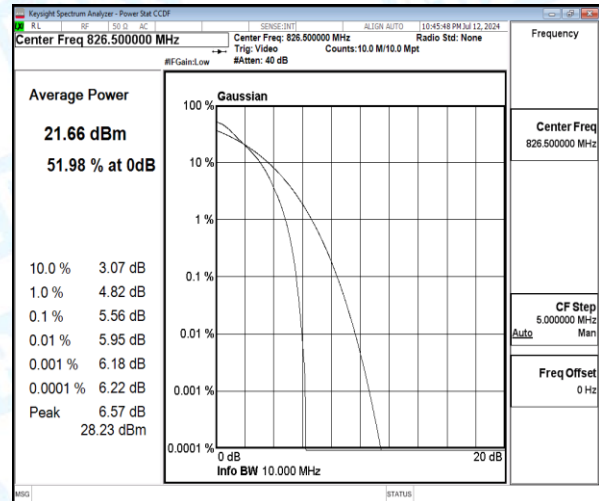
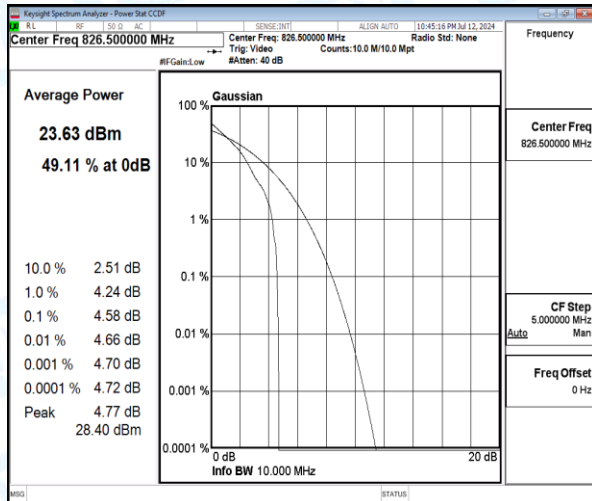
Band5-3MHz-16QAM-20525-1-0-Low-5.05-<=13-PASS

Band5-3MHz-16QAM-20525-6-0-Low-5.15-<=13-PASS



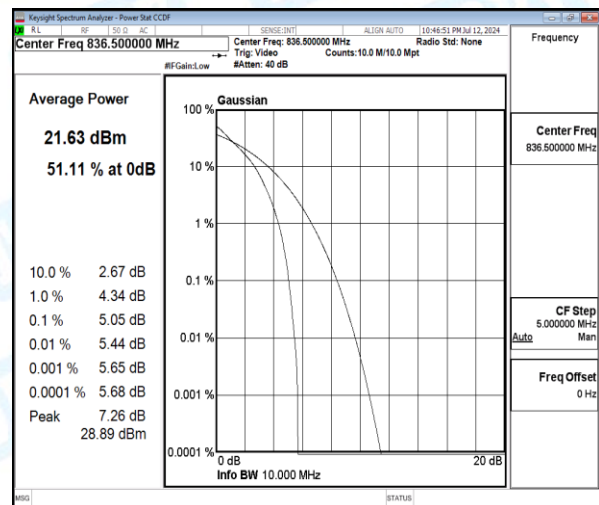
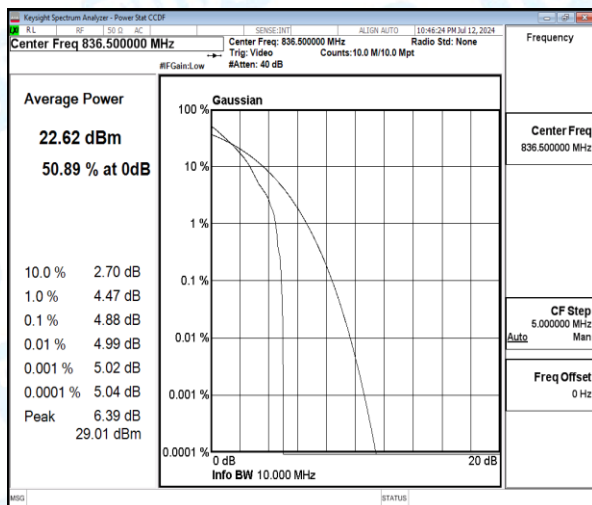
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Band5-3MHz-16QAM-20635-6-0-High-5.09-<=13-PASS



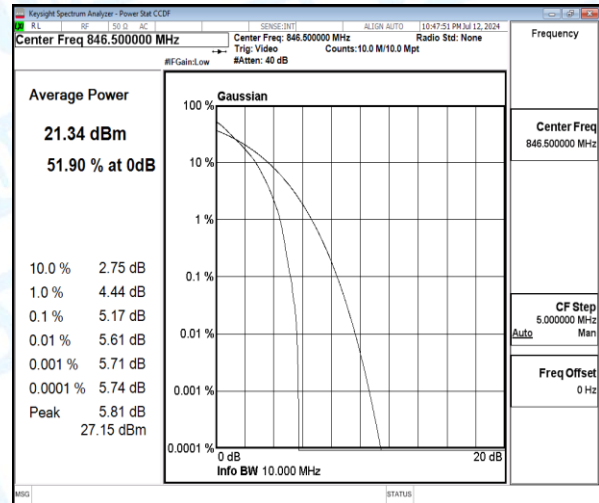
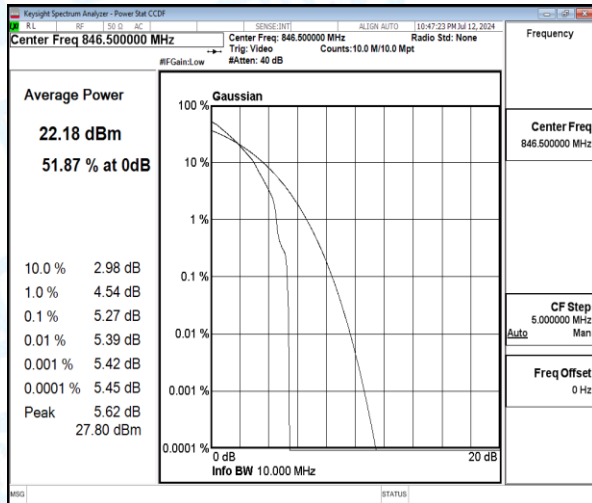
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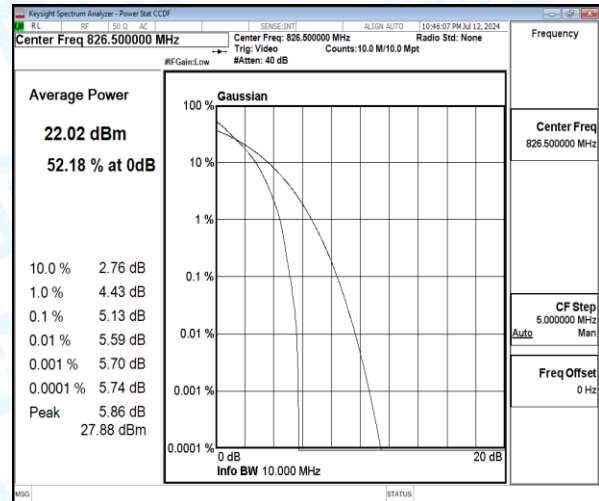
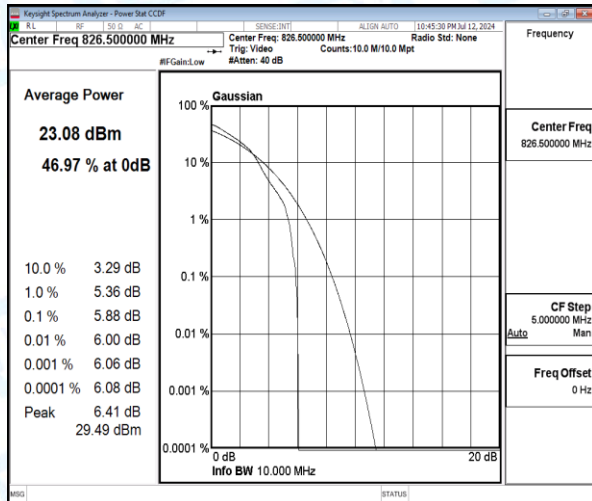
Band5-5MHz-QPSK-20525-1-0-Low-4.88-<=13-PASS

Band5-5MHz-QPSK-20525-6-0-Low-5.05-<=13-PASS



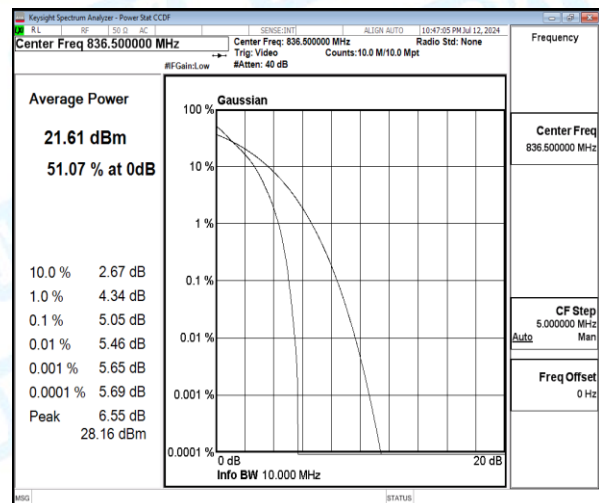
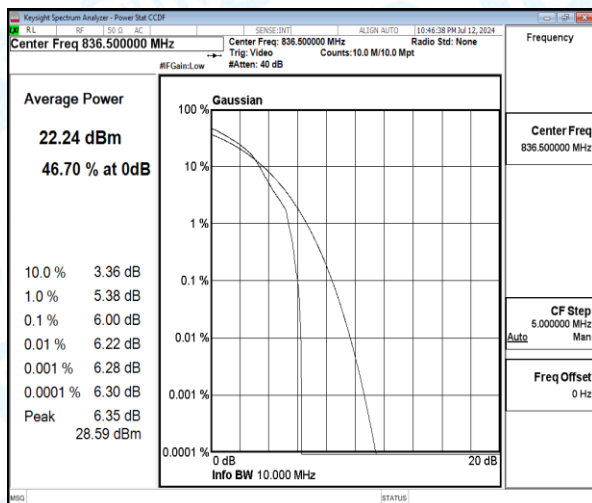
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Band5-5MHz-QPSK-20625-6-0-High-5.17-<=13-PASS



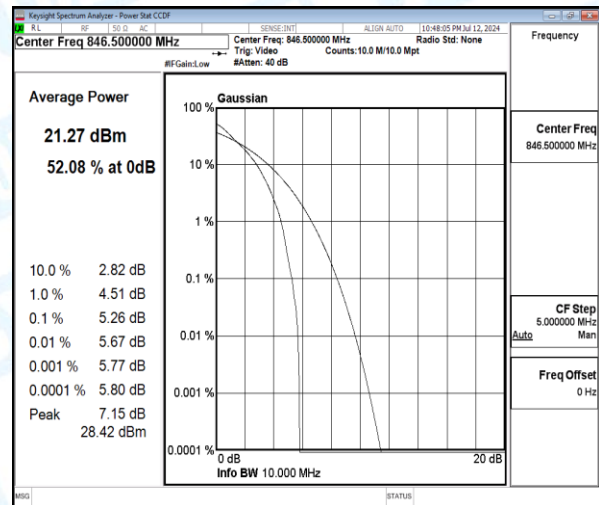
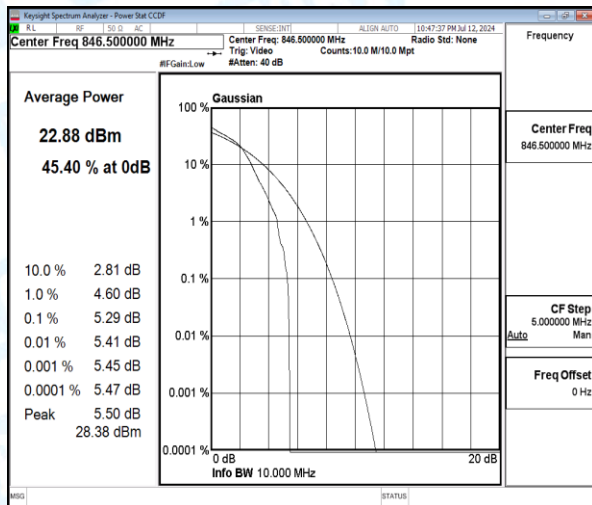
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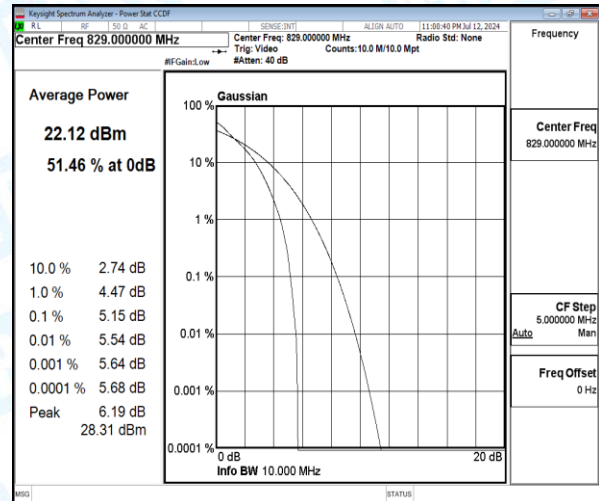
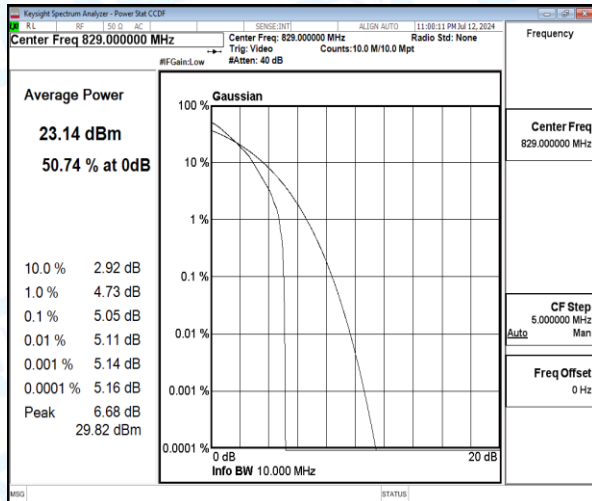
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Band5-5MHz-16QAM-20525-6-0-Low-5.05-<=13-PASS



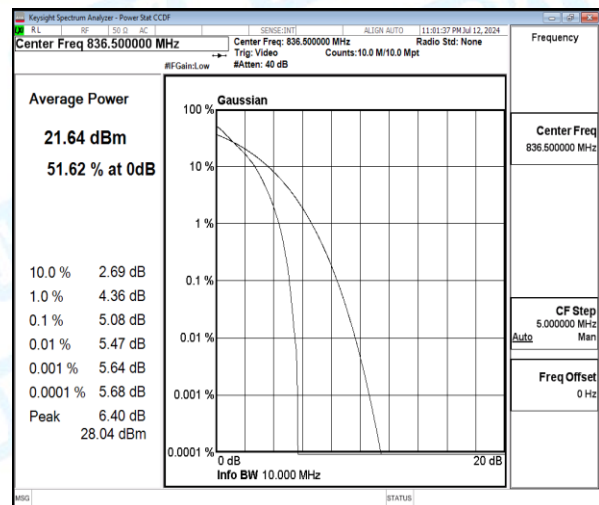
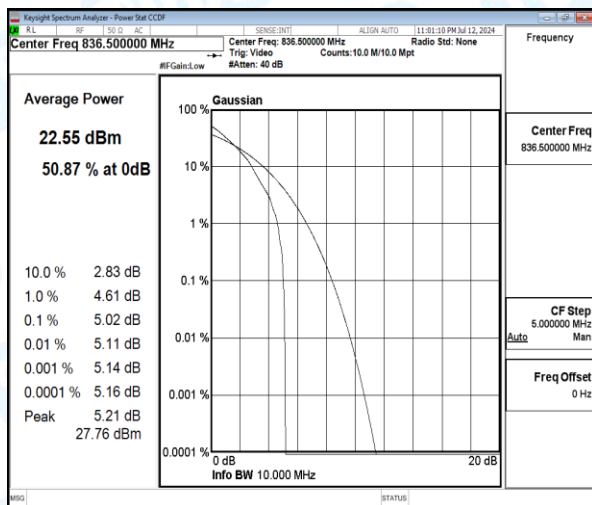
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Band5-5MHz-16QAM-20625-6-0-High-5.26-<=13-PASS



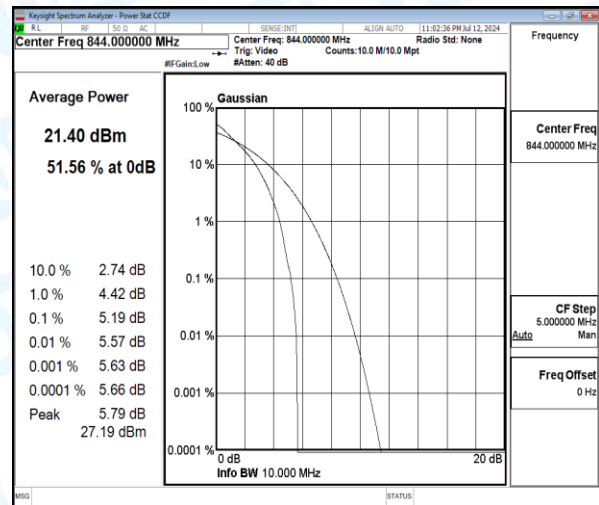
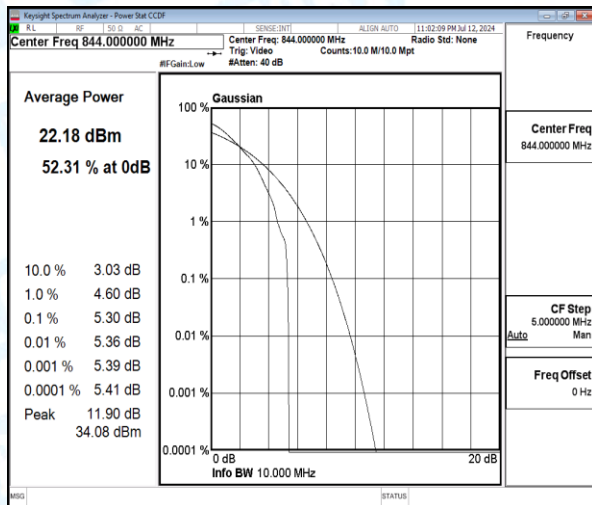
Band5-10MHz-QPSK-20450-1-0-Low-5.05-<=13-PASS

Band5-10MHz-QPSK-20450-6-0-Low-5.15-<=13-PASS



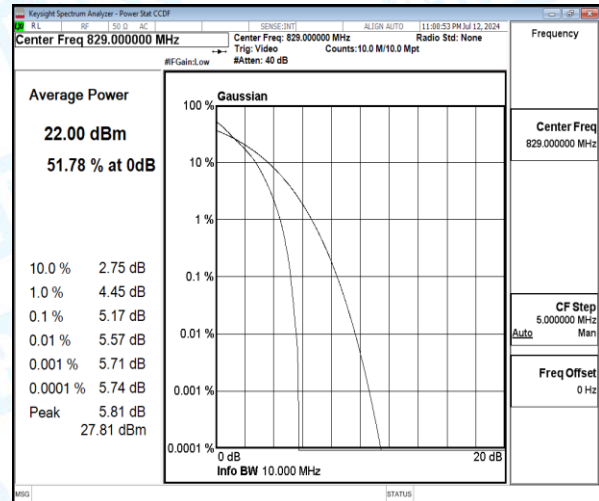
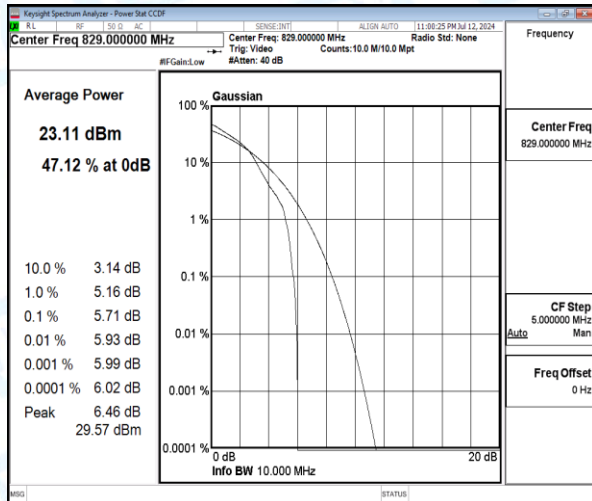
Band5-10MHz-QPSK-20525-1-0-Low-5.02-<=13-PASS

Band5-10MHz-QPSK-20525-6-0-Low-5.08-<=13-PASS



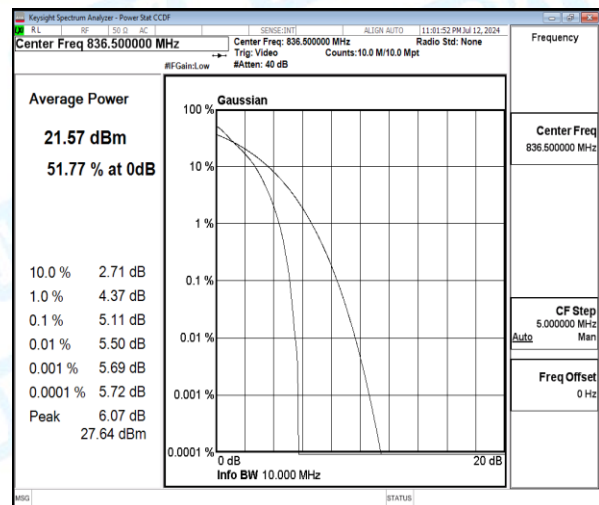
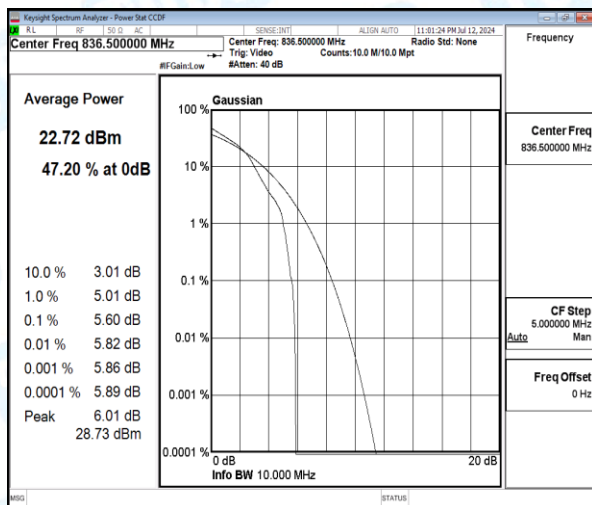
Band5-10MHz-QPSK-20600-1-0-High-5.30-13-PASS

Band5-10MHz-QPSK-20600-6-0-High-5.19-13-PASS



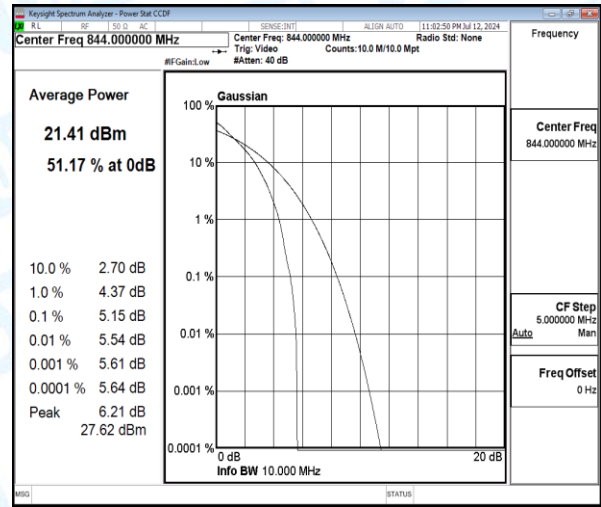
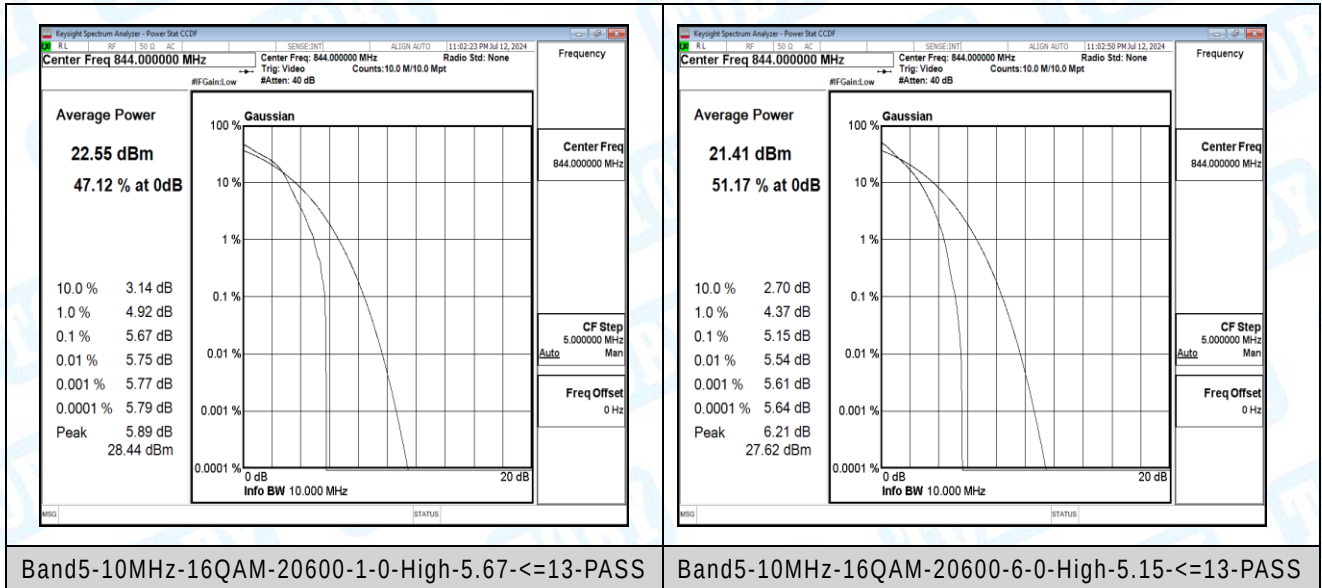
Band5-10MHz-16QAM-20450-1-0-Low-5.71-13-PASS

Band5-10MHz-16QAM-20450-6-0-Low-5.17-13-PASS



Band5-10MHz-16QAM-20525-1-0-Low-5.60-13-PASS

Band5-10MHz-16QAM-20525-6-0-Low-5.11-13-PASS



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	1.1015	1.324	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	1.0976	1.301	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	1.0959	1.286	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	1.0999	1.325	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	1.0965	1.294	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	1.0968	1.290	PASS
Band5	3MHz	20415	QPSK	6	0	Low	1.1243	1.414	PASS
Band5	3MHz	20525	QPSK	6	0	Low	1.1235	1.333	PASS
Band5	3MHz	20635	QPSK	6	0	High	1.1128	1.404	PASS
Band5	3MHz	20415	16QAM	6	0	Low	1.1220	1.405	PASS
Band5	3MHz	20525	16QAM	6	0	Low	1.1226	1.324	PASS
Band5	3MHz	20635	16QAM	6	0	High	1.1095	1.394	PASS
Band5	5MHz	20425	QPSK	6	0	Low	1.1949	1.446	PASS
Band5	5MHz	20525	QPSK	6	0	Low	1.1858	1.497	PASS
Band5	5MHz	20625	QPSK	6	0	High	1.1823	1.450	PASS
Band5	5MHz	20425	16QAM	6	0	Low	1.1944	1.422	PASS
Band5	5MHz	20525	16QAM	6	0	Low	1.1856	1.494	PASS
Band5	5MHz	20625	16QAM	6	0	High	1.1772	1.430	PASS
Band5	10MHz	20450	QPSK	6	0	Low	1.3364	1.729	PASS
Band5	10MHz	20525	QPSK	6	0	Low	1.3553	2.108	PASS
Band5	10MHz	20600	QPSK	6	0	High	1.3389	2.133	PASS
Band5	10MHz	20450	16QAM	6	0	Low	1.3336	1.835	PASS
Band5	10MHz	20525	16QAM	6	0	Low	1.3578	2.305	PASS
Band5	10MHz	20600	16QAM	6	0	High	1.3368	2.058	PASS

Test Graphs

