FCC LTE-Cat M1 Band5 Test Data

General Description of EUT	
Product Name:	AirSuite Sense LTE
Test Model:	SSCM860
Sample ID:	202303-0011-01-02#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report **TBR-C-202303-0011-101.** The report only show the worst case data.	

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1: Conducted Power Output Data for M1

1.1 Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	23.65	PASS
Band5	1.4MHz	20407	QPSK	1	5	Low	23.84	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	21.63	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	23.59	PASS
Band5	1.4MHz	20525	QPSK	1	5	Low	23.76	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	21.66	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	23.38	PASS
Band5	1.4MHz	20643	QPSK	1	5	High	23.67	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	21.47	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	22.46	PASS
Band5	1.4MHz	20407	16QAM	1	5	Low	22.76	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	21.63	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	22.35	PASS
Band5	1.4MHz	20525	16QAM	1	5	Low	22.70	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	21.66	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	22.47	PASS
Band5	1.4MHz	20643	16QAM	1	5	High	22.55	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	21.48	PASS
Band5	3MHz	20415	QPSK	1	0	Low	23.59	PASS
Band5	3MHz	20415	QPSK	1	5	Low	23.79	PASS
Band5	3MHz	20415	QPSK	6	0	Low	21.69	PASS
Band5	3MHz	20525	QPSK	1	0	Low	23.62	PASS
Band5	3MHz	20525	QPSK	1	5	Low	23.82	PASS
Band5	3MHz	20525	QPSK	6	0	Low	21.71	PASS
Band5	3MHz	20635	QPSK	1	0	High	23.41	PASS
Band5	3MHz	20635	QPSK	1	5	High	23.62	PASS
Band5	3MHz	20635	QPSK	6	0	High	21.53	PASS
Band5	3MHz	20415	16QAM	1	0	Low	22.69	PASS
Band5	3MHz	20415	16QAM	1	5	Low	22.88	PASS
Band5	3MHz	20415	16QAM	6	0	Low	21.70	PASS
Band5	3MHz	20525	16QAM	1	0	Low	22.39	PASS
Band5	3MHz	20525	16QAM	1	5	Low	22.75	PASS
Band5	3MHz	20525	16QAM	6	0	Low	21.71	PASS
Band5	3MHz	20635	16QAM	1	0	High	22.52	PASS
Band5	3MHz	20635	16QAM	1	5	High	22.61	PASS
Band5	3MHz	20635	16QAM	6	0	High	21.53	PASS
Band5	5MHz	20425	QPSK	1	0	Low	23.67	PASS
Band5	5MHz	20425	QPSK	1	5	Low	23.80	PASS
Band5	5MHz	20425	QPSK	6	0	Low	22.66	PASS
Band5	5MHz	20525	QPSK	1	0	Low	23.57	PASS

Band5	5MHz	20525	QPSK	1	5	Low	23.85	PASS
Band5	5MHz	20525	QPSK	6	0	Low	22.58	PASS
Band5	5MHz	20625	QPSK	1	0	High	23.49	PASS
Band5	5MHz	20625	QPSK	1	5	High	23.47	PASS
Band5	5MHz	20625	QPSK	6	0	High	22.52	PASS
Band5	5MHz	20425	16QAM	1	0	Low	23.51	PASS
Band5	5MHz	20425	16QAM	1	5	Low	23.75	PASS
Band5	5MHz	20425	16QAM	6	0	Low	22.67	PASS
Band5	5MHz	20525	16QAM	1	0	Low	23.43	PASS
Band5	5MHz	20525	16QAM	1	5	Low	23.44	PASS
Band5	5MHz	20525	16QAM	6	0	Low	22.58	PASS
Band5	5MHz	20625	16QAM	1	0	High	23.33	PASS
Band5	5MHz	20625	16QAM	1	5	High	23.65	PASS
Band5	5MHz	20625	16QAM	6	0	High	22.52	PASS
Band5	10MHz	20450	QPSK	1	0	Low	23.55	PASS
Band5	10MHz	20450	QPSK	1	5	Low	23.68	PASS
Band5	10MHz	20450	QPSK	6	0	Low	22.74	PASS
Band5	10MHz	20525	QPSK	1	0	Low	23.56	PASS
Band5	10MHz	20525	QPSK	1	5	Low	23.86	PASS
Band5	10MHz	20525	QPSK	6	0	Low	22.67	PASS
Band5	10MHz	20600	QPSK	1	0	High	23.49	PASS
Band5	10MHz	20600	QPSK	1	5	High	23.48	PASS
Band5	10MHz	20600	QPSK	6	0	High	22.52	PASS
Band5	10MHz	20450	16QAM	1	0	Low	23.49	PASS
Band5	10MHz	20450	16QAM	1	5	Low	23.72	PASS
Band5	10MHz	20450	16QAM	6	0	Low	22.65	PASS
Band5	10MHz	20525	16QAM	1	0	Low	23.42	PASS
Band5	10MHz	20525	16QAM	1	5	Low	23.57	PASS
Band5	10MHz	20525	16QAM	6	0	Low	22.68	PASS
Band5	10MHz	20600	16QAM	1	0	High	23.36	PASS
Band5	10MHz	20600	16QAM	1	5	High	23.64	PASS
Band5	10MHz	20600	16QAM	6	0	High	22.53	PASS

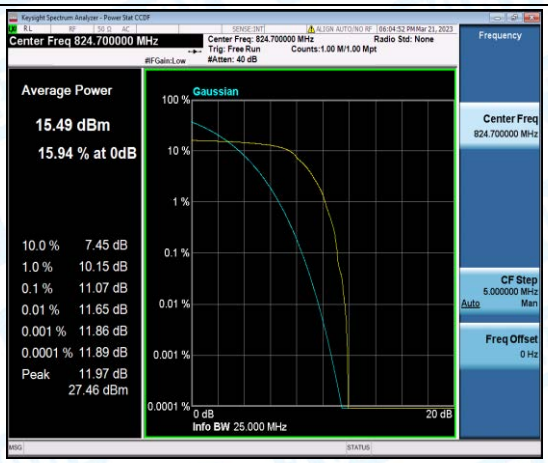
2: Peak-to-Average Ratio(CCDF) for M1

2.1 Test Result

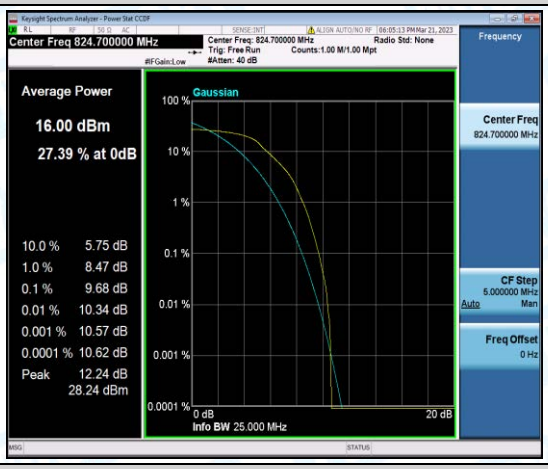
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	11.07	<=13	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	9.68	<=13	PASS
Band5	1.4MHz	20525	QPSK	1	0	Low	8.30	<=13	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	9.45	<=13	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	8.13	<=13	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	10.58	<=13	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	9.97	<=13	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	11.81	<=13	PASS
Band5	1.4MHz	20525	16QAM	1	0	Low	8.93	<=13	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	11.82	<=13	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	9.61	<=13	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	9.38	<=13	PASS
Band5	3MHz	20415	QPSK	1	0	Low	10.22	<=13	PASS
Band5	3MHz	20415	QPSK	6	0	Low	9.94	<=13	PASS
Band5	3MHz	20525	QPSK	1	0	Low	9.12	<=13	PASS
Band5	3MHz	20525	QPSK	6	0	Low	9.46	<=13	PASS
Band5	3MHz	20635	QPSK	1	0	High	7.79	<=13	PASS
Band5	3MHz	20635	QPSK	6	0	High	9.51	<=13	PASS
Band5	3MHz	20415	16QAM	1	0	Low	9.45	<=13	PASS
Band5	3MHz	20415	16QAM	6	0	Low	9.57	<=13	PASS
Band5	3MHz	20525	16QAM	1	0	Low	9.98	<=13	PASS
Band5	3MHz	20525	16QAM	6	0	Low	8.66	<=13	PASS
Band5	3MHz	20635	16QAM	1	0	High	9.84	<=13	PASS
Band5	3MHz	20635	16QAM	6	0	High	10.47	<=13	PASS
Band5	5MHz	20425	QPSK	1	0	Low	8.31	<=13	PASS
Band5	5MHz	20425	QPSK	6	0	Low	9.57	<=13	PASS
Band5	5MHz	20525	QPSK	1	0	Low	9.13	<=13	PASS
Band5	5MHz	20525	QPSK	6	0	Low	9.41	<=13	PASS
Band5	5MHz	20625	QPSK	1	0	High	10.28	<=13	PASS
Band5	5MHz	20625	QPSK	6	0	High	7.89	<=13	PASS
Band5	5MHz	20425	16QAM	1	0	Low	9.25	<=13	PASS
Band5	5MHz	20425	16QAM	6	0	Low	8.70	<=13	PASS
Band5	5MHz	20525	16QAM	1	0	Low	10.85	<=13	PASS
Band5	5MHz	20525	16QAM	6	0	Low	9.56	<=13	PASS
Band5	5MHz	20625	16QAM	1	0	High	10.64	<=13	PASS
Band5	5MHz	20625	16QAM	6	0	High	9.21	<=13	PASS
Band5	10MHz	20450	QPSK	1	0	Low	8.85	<=13	PASS
Band5	10MHz	20450	QPSK	6	0	Low	9.48	<=13	PASS
Band5	10MHz	20525	QPSK	1	0	Low	8.48	<=13	PASS
Band5	10MHz	20525	QPSK	6	0	Low	10.09	<=13	PASS
Band5	10MHz	20600	QPSK	1	0	High	10.05	<=13	PASS

Band5	10MHz	20600	QPSK	6	0	High	8.81	<=13	PASS
Band5	10MHz	20450	16QAM	1	0	Low	11.33	<=13	PASS
Band5	10MHz	20450	16QAM	6	0	Low	7.72	<=13	PASS
Band5	10MHz	20525	16QAM	1	0	Low	9.67	<=13	PASS
Band5	10MHz	20525	16QAM	6	0	Low	8.35	<=13	PASS
Band5	10MHz	20600	16QAM	1	0	High	11.31	<=13	PASS
Band5	10MHz	20600	16QAM	6	0	High	9.80	<=13	PASS

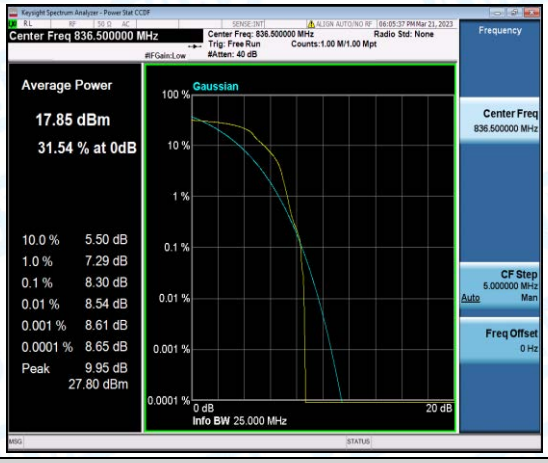
2.2 Test Graphs



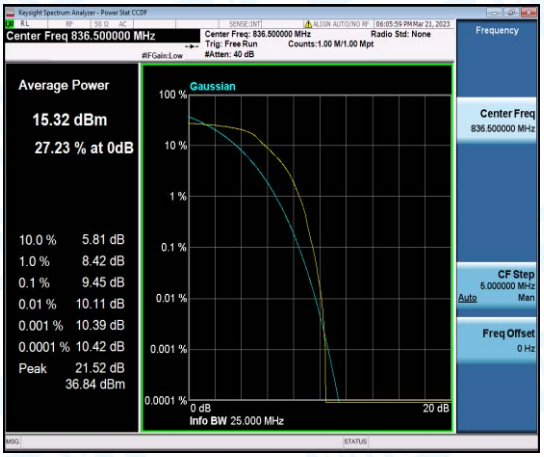
Band5-1.4MHz-QPSK-20407-1-0-Low-11.07-<=13-PASS



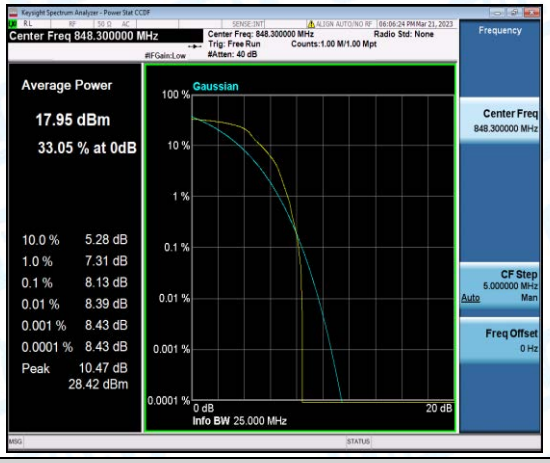
Band5-1.4MHz-QPSK-20407-6-0-Low-9.68-<=13-PASS



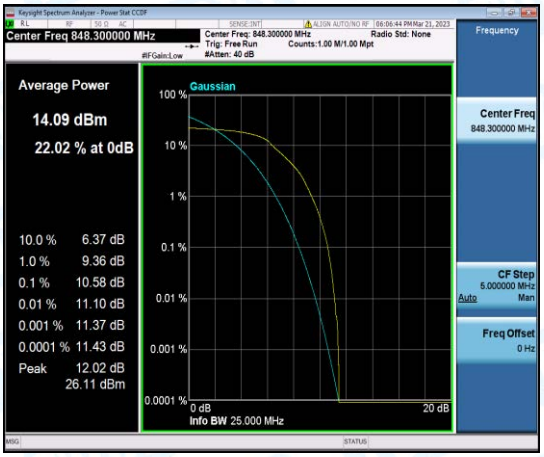
Band5-1.4MHz-QPSK-20525-1-0-Low-8.30-<=13-PASS



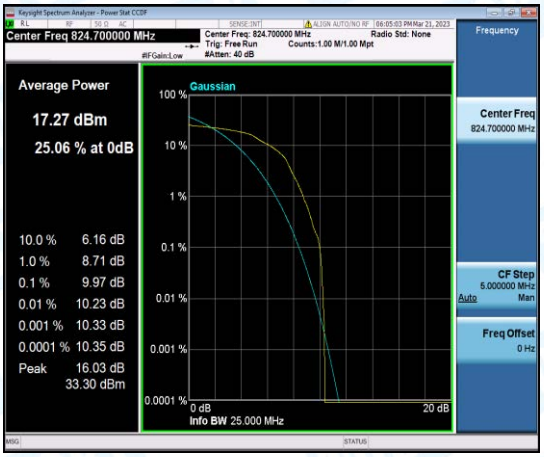
Band5-1.4MHz-QPSK-20525-6-0-Low-9.45-<=13-PASS



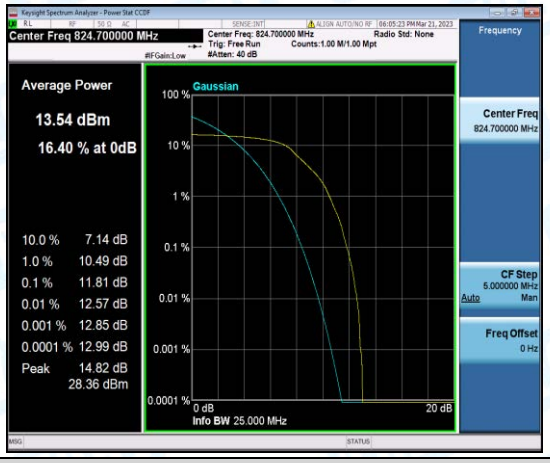
Band5-1.4MHz-QPSK-20643-1-0-High-8.13-<=13-PASS



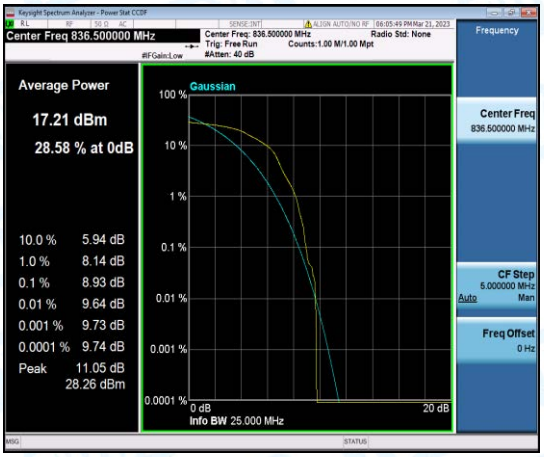
Band5-1.4MHz-QPSK-20643-6-0-High-10.58-<=13-PASS



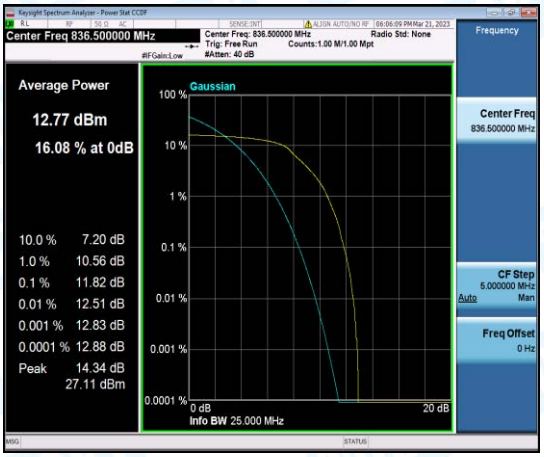
Band5-1.4MHz-16QAM-20407-1-0-Low-9.97-<=13-PASS



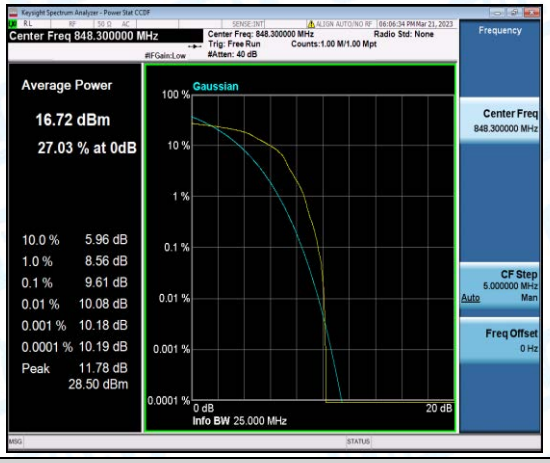
Band5-1.4MHz-16QAM-20407-6-0-Low-11.81-<=13-PASS



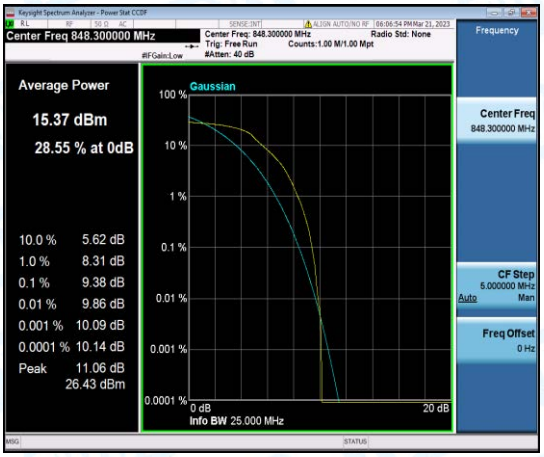
Band5-1.4MHz-16QAM-20525-1-0-Low-8.93-<=13-PASS



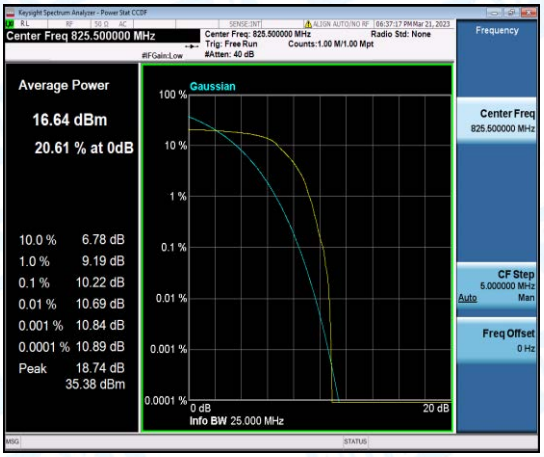
Band5-1.4MHz-16QAM-20525-6-0-Low-11.82-<=13-PASS



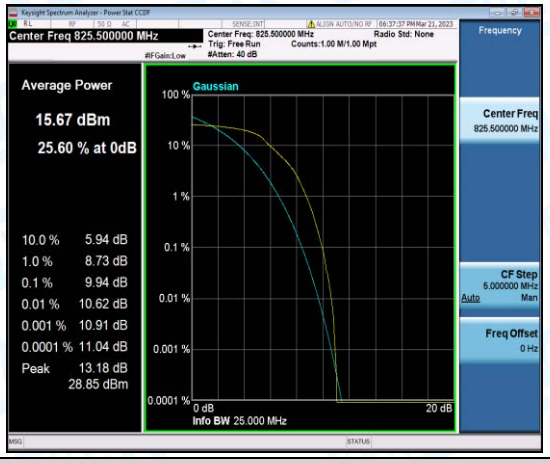
Band5-1.4MHz-16QAM-20643-1-0-High-9.61-<=13-PASS



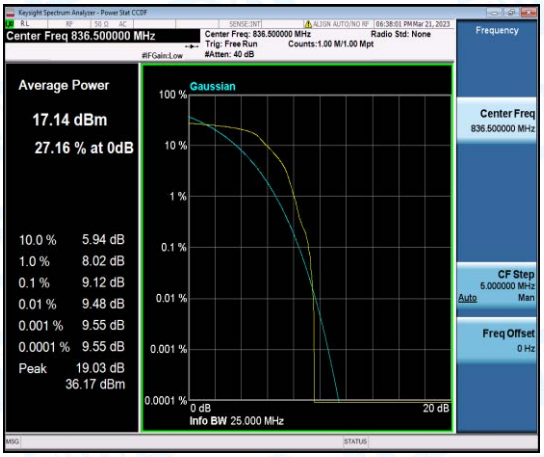
Band5-1.4MHz-16QAM-20643-6-0-High-9.38-<=13-PASS



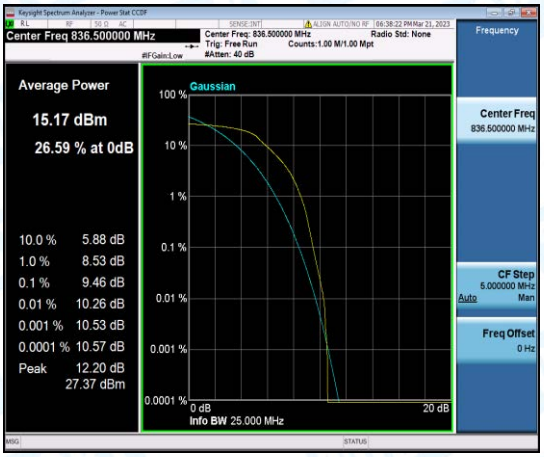
Band5-3MHz-QPSK-20415-1-0-Low-10.22-<=13-PASS



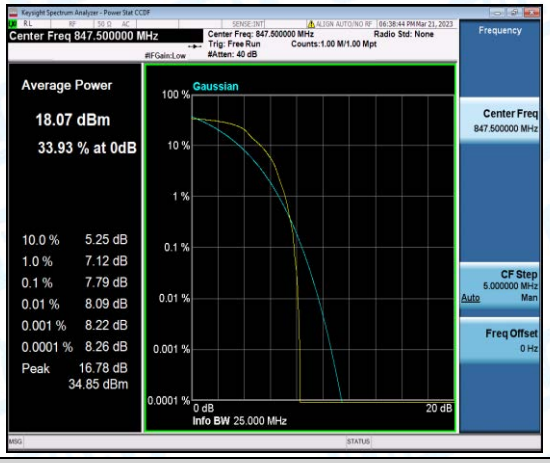
Band5-3MHz-QPSK-20415-6-0-Low-9.94-<=13-PASS



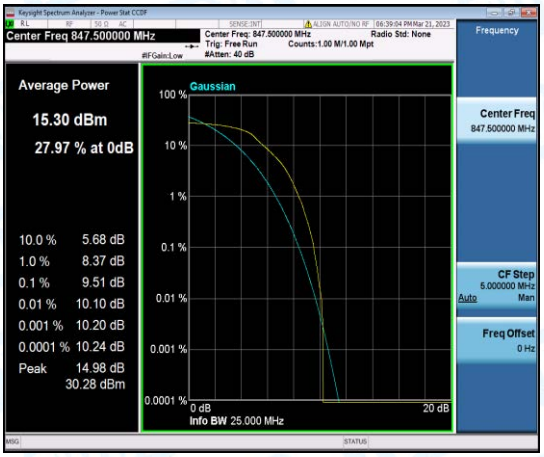
Band5-3MHz-QPSK-20525-1-0-Low-9.12-<=13-PASS



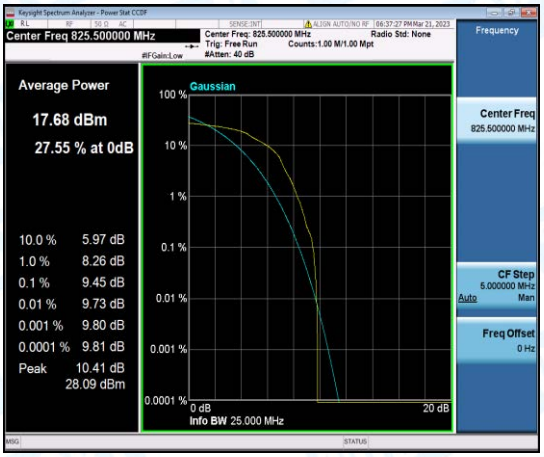
Band5-3MHz-QPSK-20525-6-0-Low-9.46-<=13-PASS



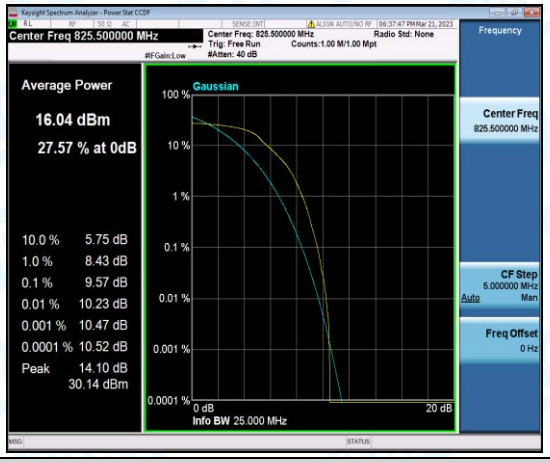
Band5-3MHz-QPSK-20635-1-0-High-7.79-<=13-PASS



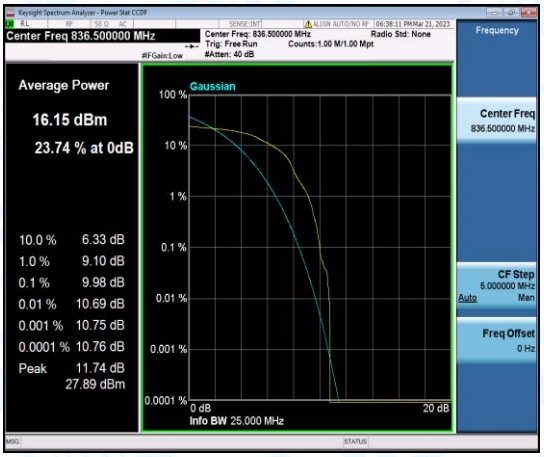
Band5-3MHz-QPSK-20635-6-0-High-9.51-<=13-PASS



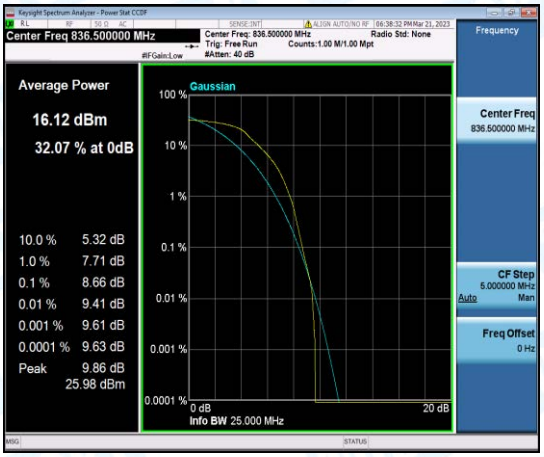
Band5-3MHz-16QAM-20415-1-0-Low-9.45-<=13-PASS



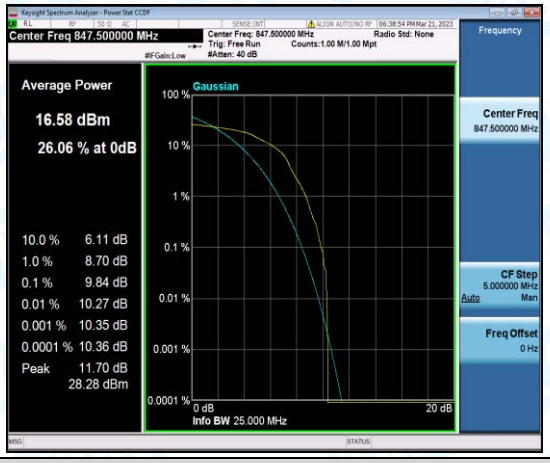
Band5-3MHz-16QAM-20415-6-0-Low-9.57-<=13-PASS



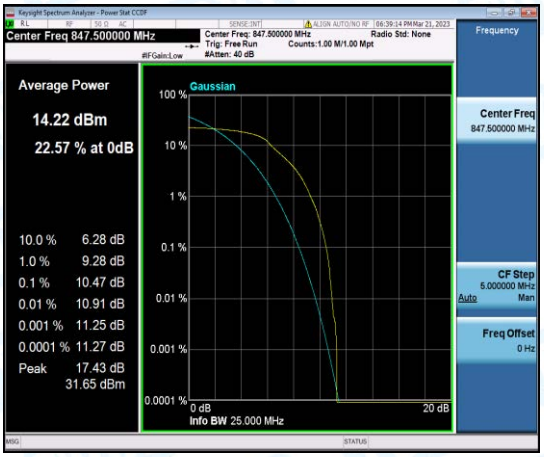
Band5-3MHz-16QAM-20525-1-0-Low-9.98-<=13-PASS



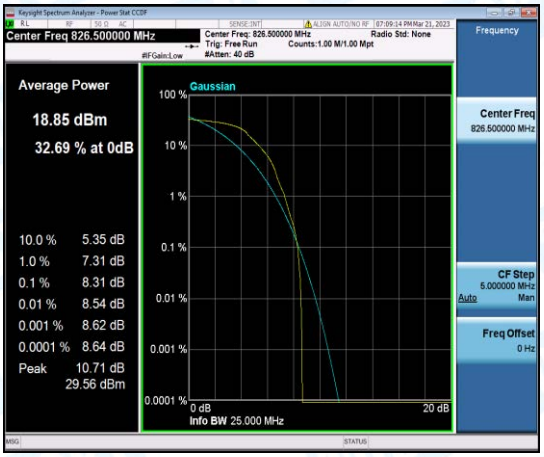
Band5-3MHz-16QAM-20525-6-0-Low-8.66-<=13-PASS



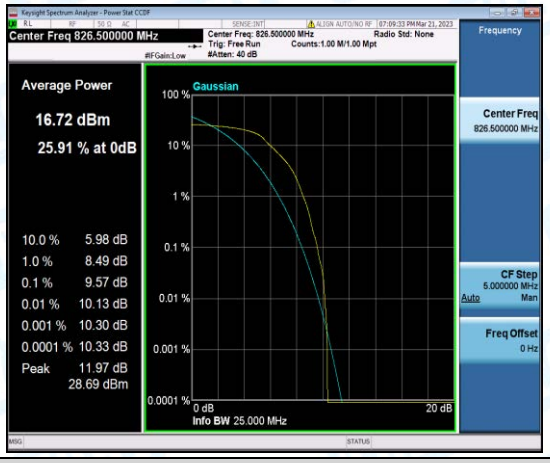
Band5-3MHz-16QAM-20635-1-0-High-9.84-<=13-PASS



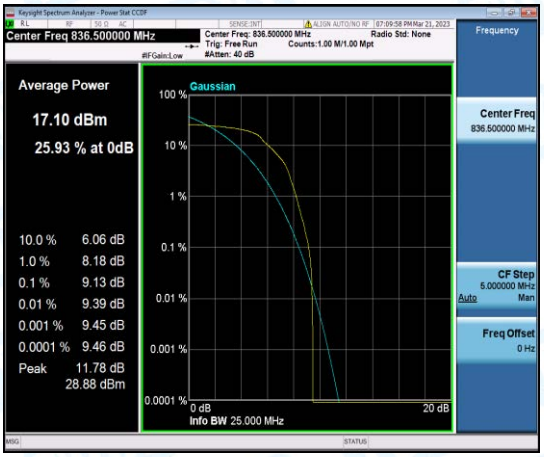
Band5-3MHz-16QAM-20635-6-0-High-10.47-<=13-PASS



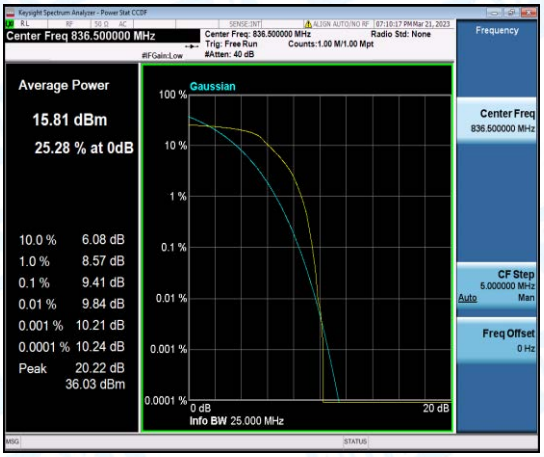
Band5-5MHz-QPSK-20425-1-0-Low-8.31-<=13-PASS



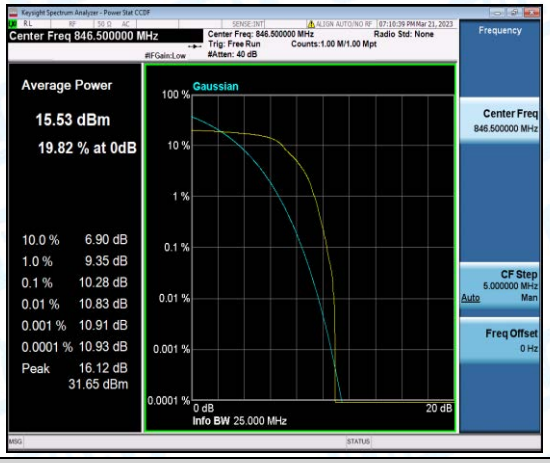
Band5-5MHz-QPSK-20425-6-0-Low-9.57-<=13-PASS



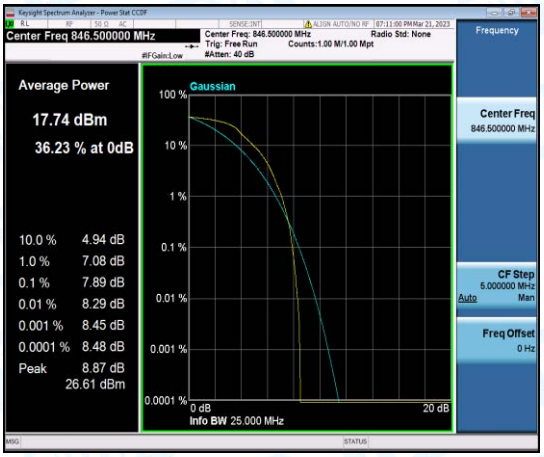
Band5-5MHz-QPSK-20525-1-0-Low-9.13-<=13-PASS



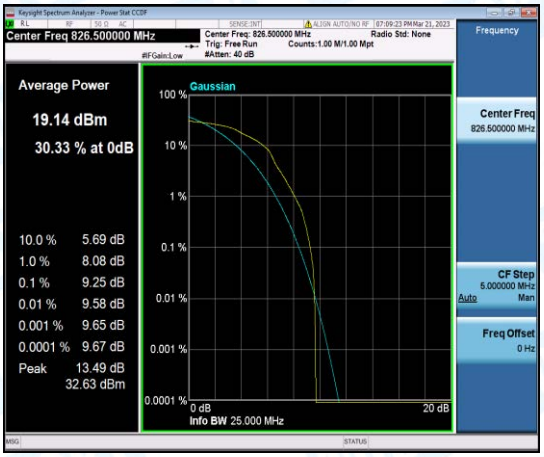
Band5-5MHz-QPSK-20525-6-0-Low-9.41-<=13-PASS



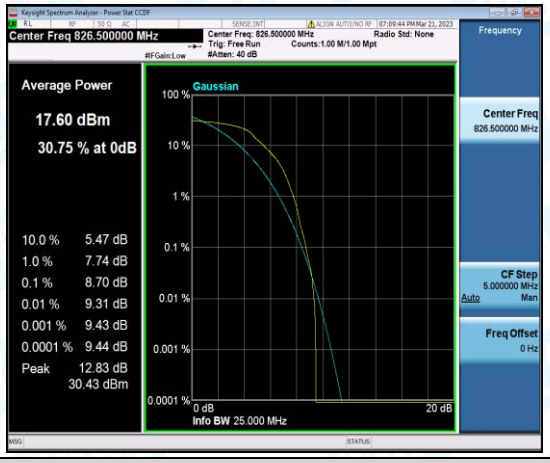
Band5-5MHz-QPSK-20625-1-0-High-10.28-<=13-PASS



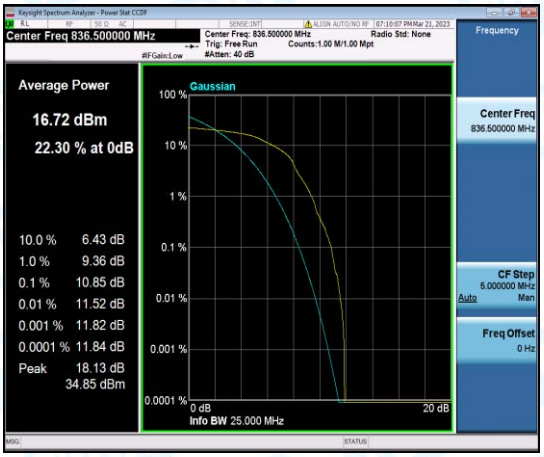
Band5-5MHz-QPSK-20625-6-0-High-7.89-<=13-PASS



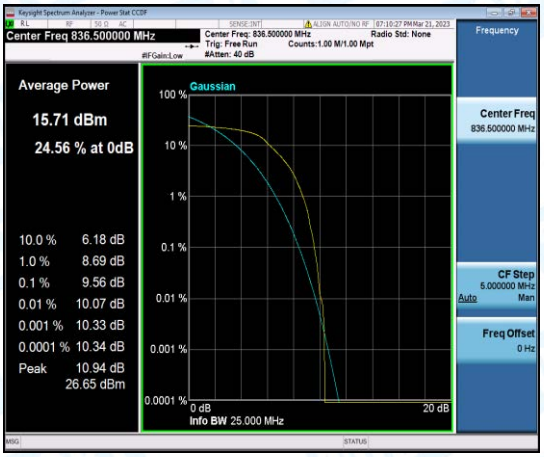
Band5-5MHz-16QAM-20425-1-0-Low-9.25-<=13-PASS



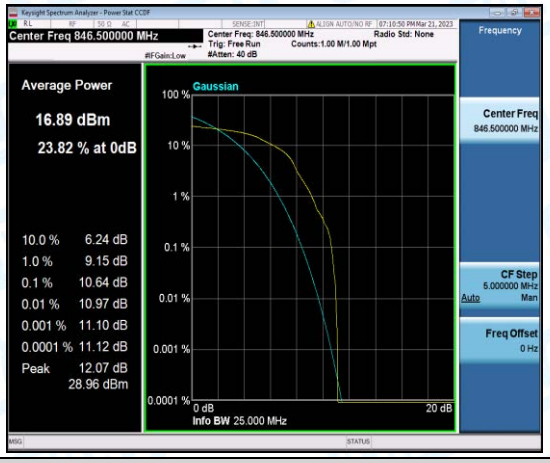
Band5-5MHz-16QAM-20425-6-0-Low-8.70-<=13-PASS



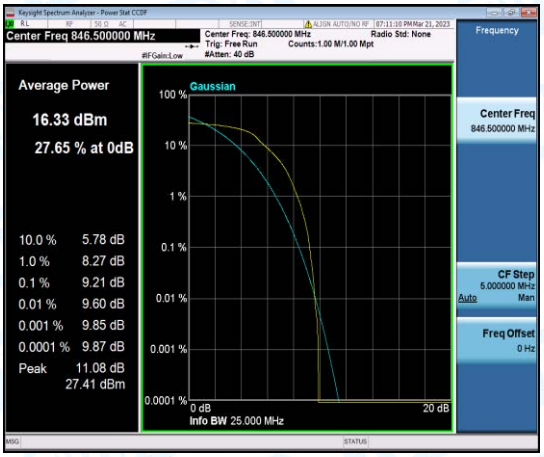
Band5-5MHz-16QAM-20525-1-0-Low-10.85-<=13-PASS



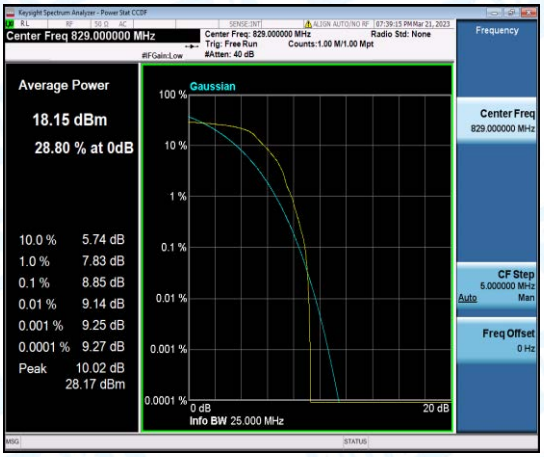
Band5-5MHz-16QAM-20525-6-0-Low-9.56-<=13-PASS



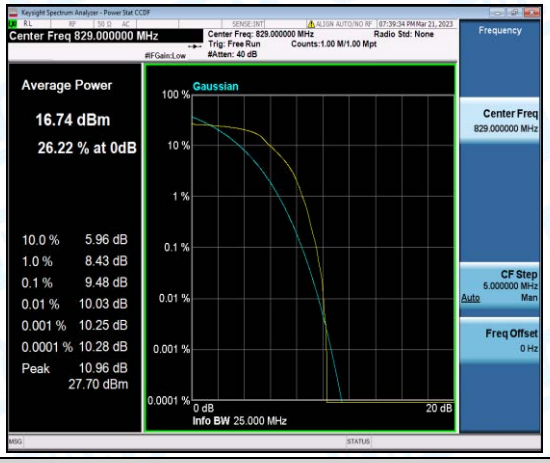
Band5-5MHz-16QAM-20625-1-0-High-10.64-<=13-PASS



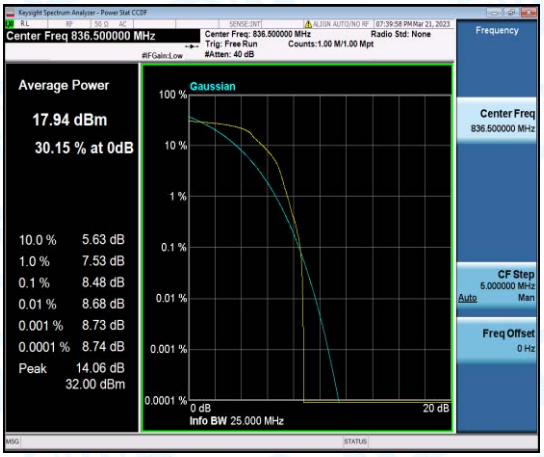
Band5-5MHz-16QAM-20625-6-0-High-9.21-<=13-PASS



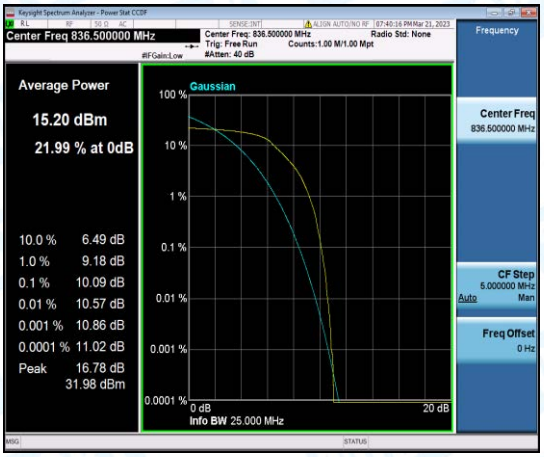
Band5-10MHz-QPSK-20450-1-0-Low-8.85-<=13-PASS



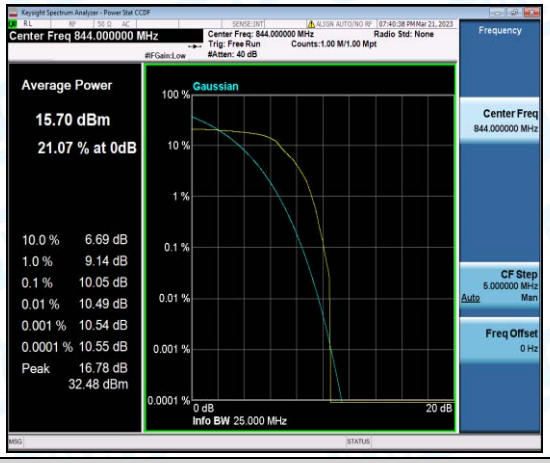
Band5-10MHz-QPSK-20450-6-0-Low-9.48-<=13-PASS



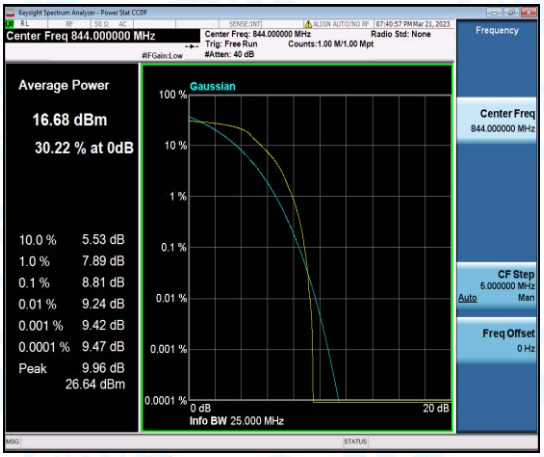
Band5-10MHz-QPSK-20525-1-0-Low-8.48-<=13-PASS



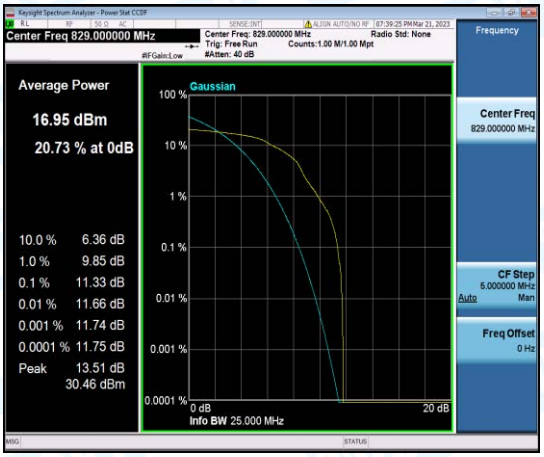
Band5-10MHz-QPSK-20525-6-0-Low-10.09-<=13-PASS



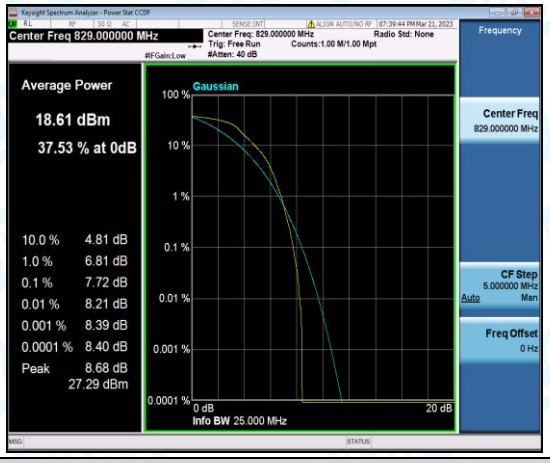
Band5-10MHz-QPSK-20600-1-0-High-10.05-<=13-PASS



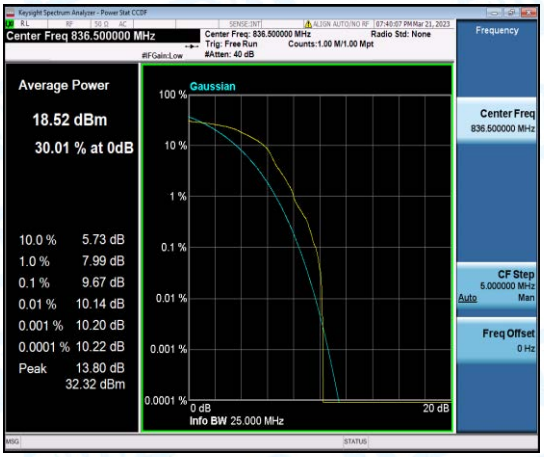
Band5-10MHz-QPSK-20600-6-0-High-8.81-<=13-PASS



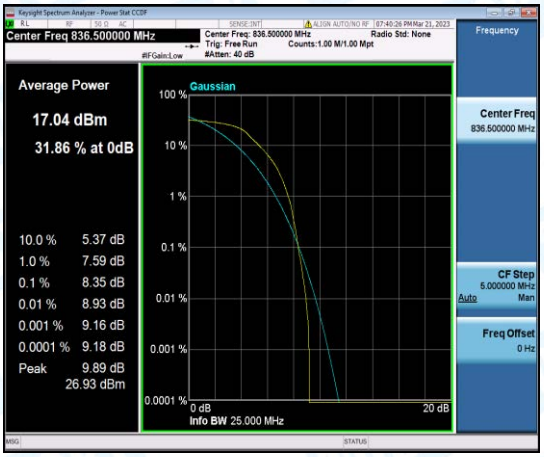
Band5-10MHz-16QAM-20450-1-0-Low-11.33-<=13-PASS



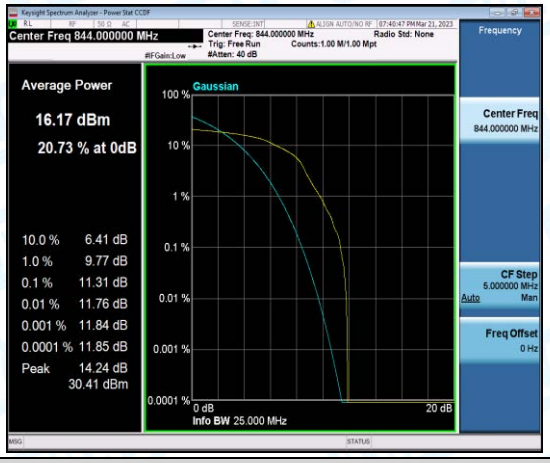
Band5-10MHz-16QAM-20450-6-0-Low-7.72-<=13-PASS



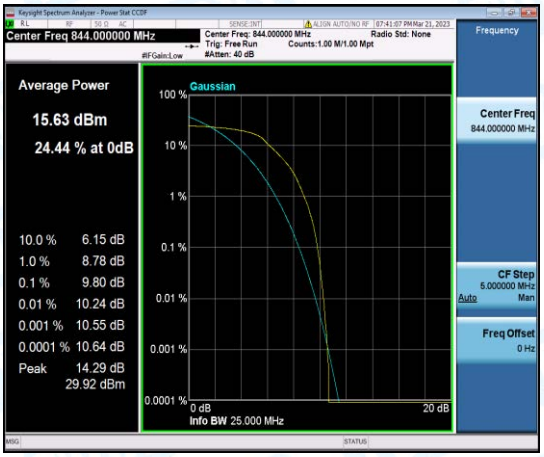
Band5-10MHz-16QAM-20525-1-0-Low-9.67-<=13-PASS



Band5-10MHz-16QAM-20525-6-0-Low-8.35-<=13-PASS



Band5-10MHz-16QAM-20600-1-0-High-11.31-<=13-PASS



Band5-10MHz-16QAM-20600-6-0-High-9.80-<=13-PASS

3: 26dB Bandwidth and Occupied Bandwidth for M1

3.1 Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	20407	QPSK	6	0	Low	1.1021	1.340	PASS
Band5	1.4MHz	20525	QPSK	6	0	Low	1.1002	1.329	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	1.1122	1.347	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	1.1037	1.336	PASS
Band5	1.4MHz	20525	16QAM	6	0	Low	1.1018	1.336	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	1.1082	1.361	PASS
Band5	3MHz	20415	QPSK	6	0	Low	1.1330	1.445	PASS
Band5	3MHz	20525	QPSK	6	0	Low	1.1380	1.418	PASS
Band5	3MHz	20635	QPSK	6	0	High	1.1366	1.418	PASS
Band5	3MHz	20415	16QAM	6	0	Low	1.1301	1.431	PASS
Band5	3MHz	20525	16QAM	6	0	Low	1.1388	1.426	PASS
Band5	3MHz	20635	16QAM	6	0	High	1.1383	1.410	PASS
Band5	5MHz	20425	QPSK	6	0	Low	1.2119	1.516	PASS
Band5	5MHz	20525	QPSK	6	0	Low	1.2126	1.696	PASS
Band5	5MHz	20625	QPSK	6	0	High	1.2141	1.499	PASS
Band5	5MHz	20425	16QAM	6	0	Low	1.2175	1.527	PASS
Band5	5MHz	20525	16QAM	6	0	Low	1.2175	1.660	PASS
Band5	5MHz	20625	16QAM	6	0	High	1.2186	1.512	PASS
Band5	10MHz	20450	QPSK	6	0	Low	1.3727	1.816	PASS
Band5	10MHz	20525	QPSK	6	0	Low	1.3848	1.914	PASS
Band5	10MHz	20600	QPSK	6	0	High	1.3729	1.848	PASS
Band5	10MHz	20450	16QAM	6	0	Low	1.3649	1.772	PASS
Band5	10MHz	20525	16QAM	6	0	Low	1.3921	1.925	PASS
Band5	10MHz	20600	16QAM	6	0	High	1.3680	1.860	PASS

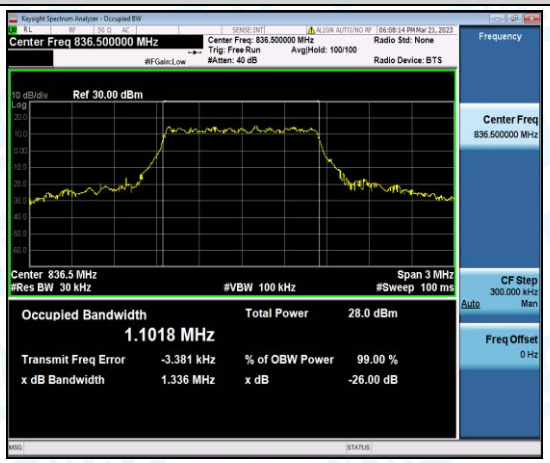
3.2 Test Graphs

Band5-1.4MHz-QPSK-20407-6-0-Low-1.1021-1.340-PASS

Band5-1.4MHz-QPSK-20525-6-0-Low-1.1002-1.329-PASS

Band5-1.4MHz-QPSK-20643-6-0-High-1.1122-1.347-PASS

Band5-1.4MHz-16QAM-20407-6-0-Low-1.1037-1.336-PASS

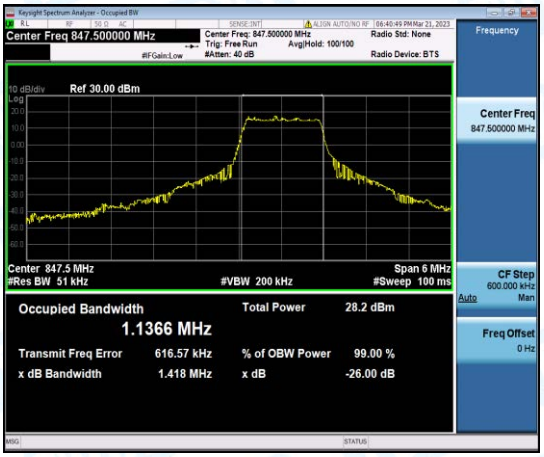


Band5-1.4MHz-16QAM-20525-6-0-Low-1.1018-1.336-PASS

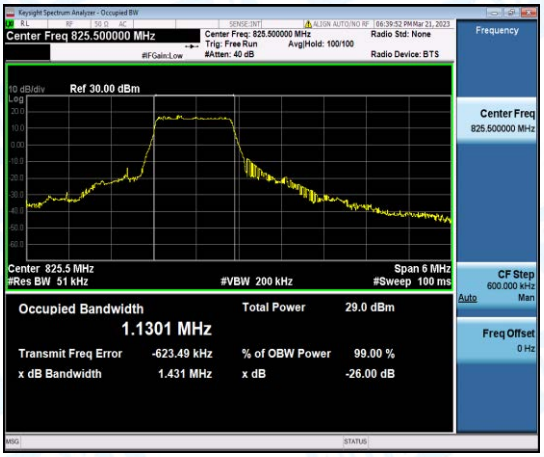
Band5-1.4MHz-16QAM-20643-6-0-High-1.1082-1.361-PASS

Band5-3MHz-QPSK-20415-6-0-Low-1.1330-1.445-PASS

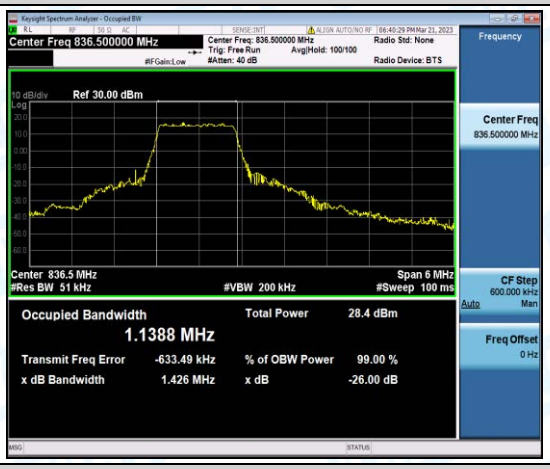
Band5-3MHz-QPSK-20525-6-0-Low-1.1380-1.418-PASS



Band5-3MHz-QPSK-20635-6-0-High-1.1366-1.418-PASS

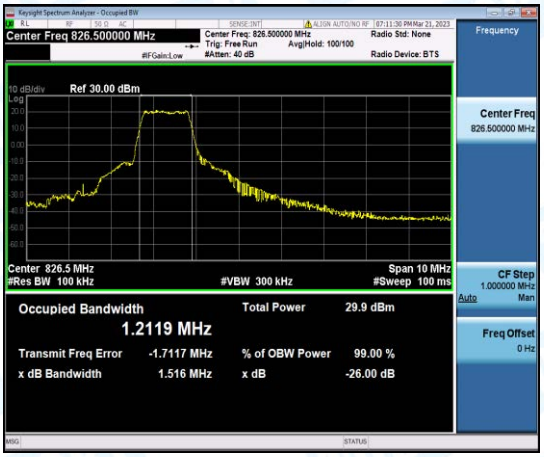


Band5-3MHz-16QAM-20415-6-0-Low-1.1301-1.431-PASS

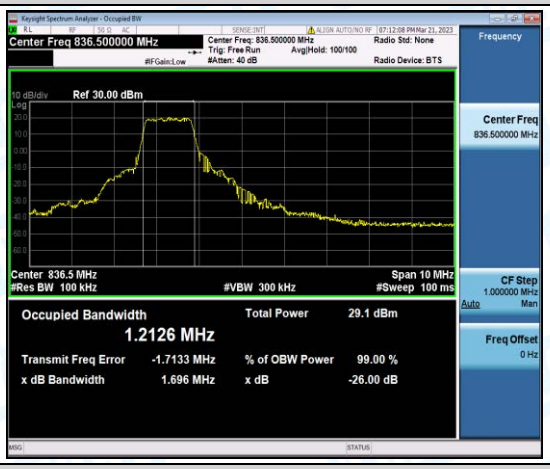


Band5-3MHz-16QAM-20525-6-0-Low-1.1388-1.426-PASS

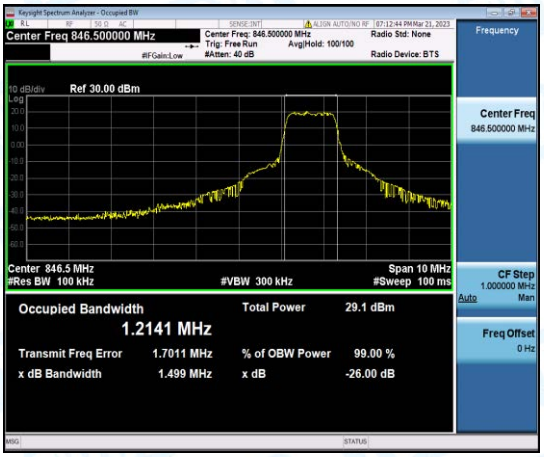
Band5-3MHz-16QAM-20635-6-0-High-1.1383-1.410-PASS



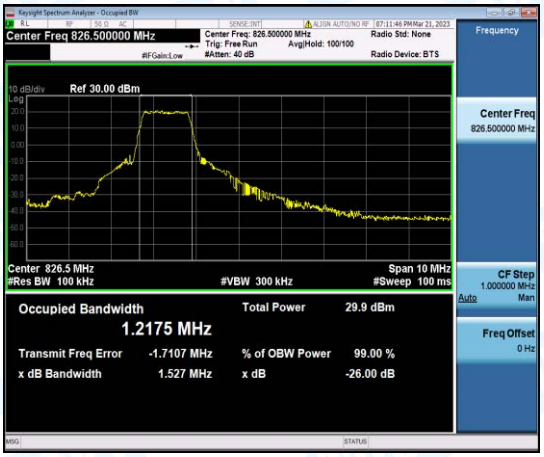
Band5-5MHz-QPSK-20425-6-0-Low-1.2119-1.516-PASS



Band5-5MHz-QPSK-20525-6-0-Low-1.2126-1.696-PASS

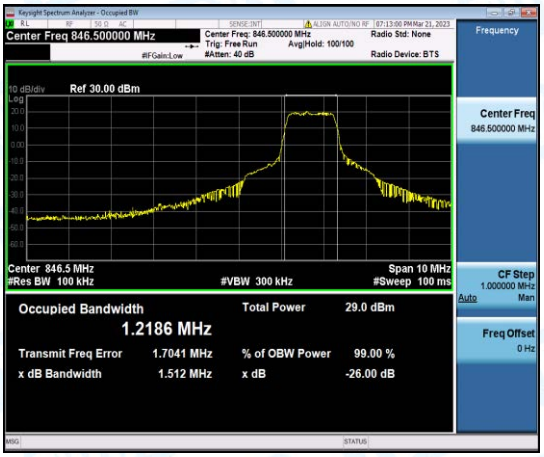


Band5-5MHz-QPSK-20625-6-0-High-1.2141-1.499-PASS

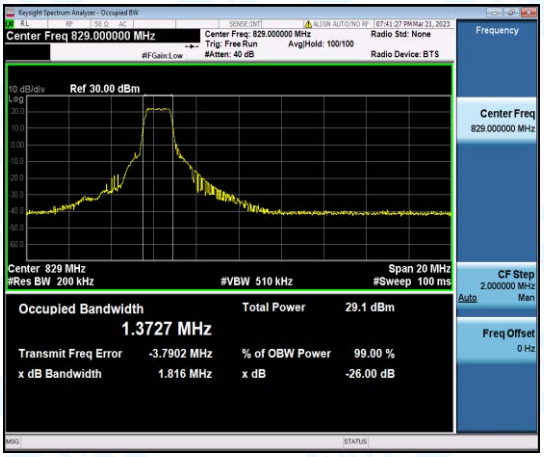


Band5-5MHz-16QAM-20425-6-0-Low-1.2175-1.527-PASS

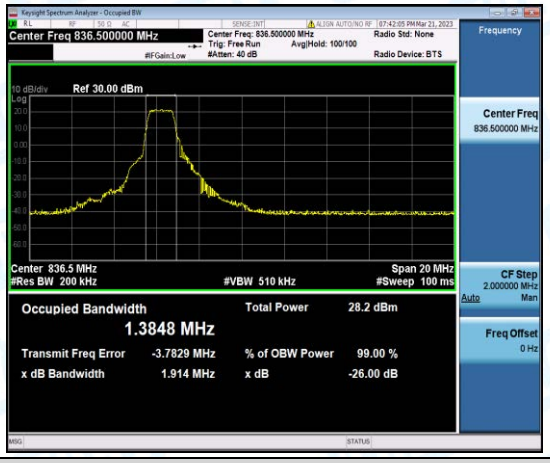
Band5-5MHz-16QAM-20525-6-0-Low-1.2175-1.660-PASS



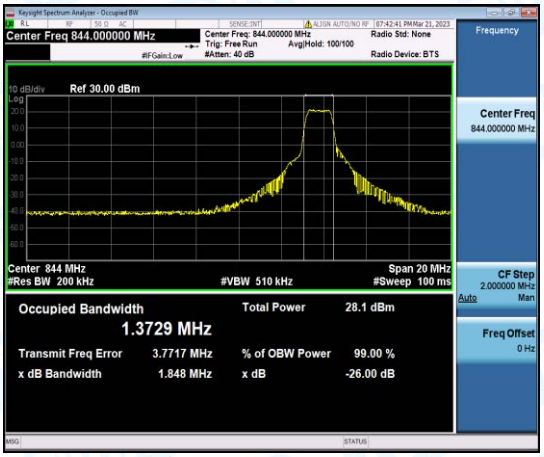
Band5-5MHz-16QAM-20625-6-0-High-1.2186-1.512-PASS



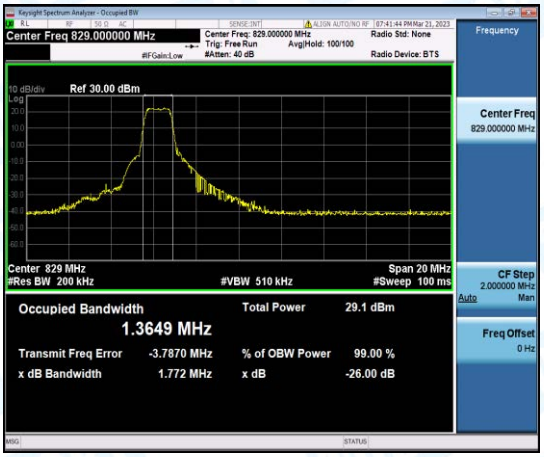
Band5-10MHz-QPSK-20450-6-0-Low-1.3727-1.816-PASS



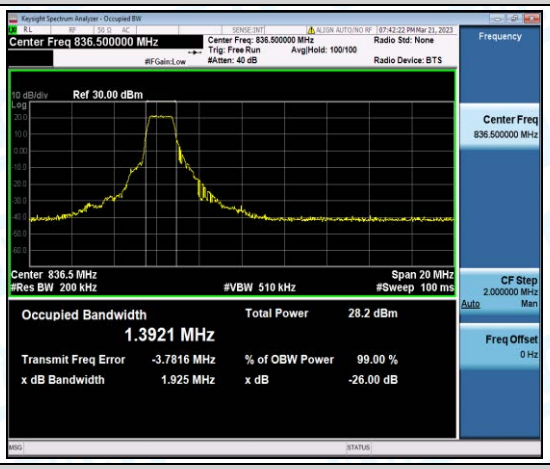
Band5-10MHz-QPSK-20525-6-0-Low-1.3848-1.914-PASS



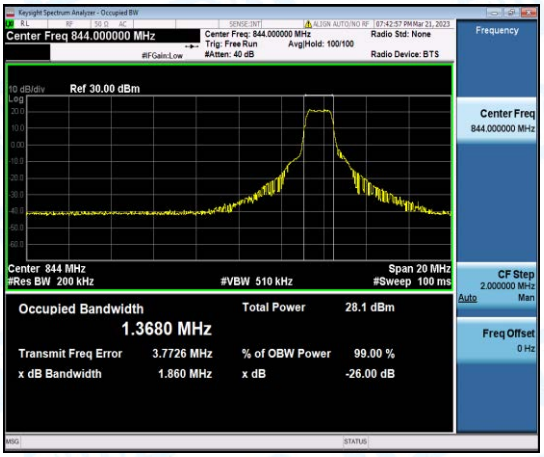
Band5-10MHz-QPSK-20600-6-0-High-1.3729-1.848-PASS



Band5-10MHz-16QAM-20450-6-0-Low-1.3649-1.772-PASS



Band5-10MHz-16QAM-20525-6-0-Low-1.3921-1.925-PASS



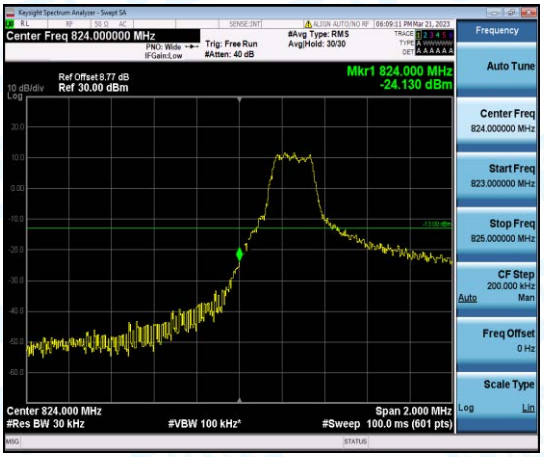
Band5-10MHz-16QAM-20600-6-0-High-1.3680-1.860-PASS

4: Band Edge for M1

4.1 Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band5	1.4MHz	20407	QPSK	1	0	Low	-24.13	PASS
Band5	1.4MHz	20407	QPSK	6	0	Low	-30.69	PASS
Band5	1.4MHz	20643	QPSK	1	0	High	-33.93	PASS
Band5	1.4MHz	20643	QPSK	6	0	High	-31.65	PASS
Band5	1.4MHz	20407	16QAM	1	0	Low	-23.73	PASS
Band5	1.4MHz	20407	16QAM	6	0	Low	-30.59	PASS
Band5	1.4MHz	20643	16QAM	1	0	High	-35.28	PASS
Band5	1.4MHz	20643	16QAM	6	0	High	-31.51	PASS
Band5	3MHz	20415	QPSK	1	0	Low	-34.73	PASS
Band5	3MHz	20415	QPSK	6	0	Low	-33.51	PASS
Band5	3MHz	20635	QPSK	1	0	High	-37.41	PASS
Band5	3MHz	20635	QPSK	6	0	High	-33.94	PASS
Band5	3MHz	20415	16QAM	1	0	Low	-32.78	PASS
Band5	3MHz	20415	16QAM	6	0	Low	-32.60	PASS
Band5	3MHz	20635	16QAM	1	0	High	-37.23	PASS
Band5	3MHz	20635	16QAM	6	0	High	-33.91	PASS
Band5	5MHz	20425	QPSK	1	0	Low	-25.48	PASS
Band5	5MHz	20425	QPSK	6	0	Low	-26.85	PASS
Band5	5MHz	20625	QPSK	1	0	High	-35.31	PASS
Band5	5MHz	20625	QPSK	6	0	High	-25.90	PASS
Band5	5MHz	20425	16QAM	1	0	Low	-25.95	PASS
Band5	5MHz	20425	16QAM	6	0	Low	-26.97	PASS
Band5	5MHz	20625	16QAM	1	0	High	-32.96	PASS
Band5	5MHz	20625	16QAM	6	0	High	-25.85	PASS
Band5	10MHz	20450	QPSK	1	0	Low	-35.61	PASS
Band5	10MHz	20450	QPSK	6	0	Low	-26.83	PASS
Band5	10MHz	20600	QPSK	1	0	High	-33.11	PASS
Band5	10MHz	20600	QPSK	6	0	High	-28.39	PASS
Band5	10MHz	20450	16QAM	1	0	Low	-36.33	PASS
Band5	10MHz	20450	16QAM	6	0	Low	-26.91	PASS
Band5	10MHz	20600	16QAM	1	0	High	-31.14	PASS
Band5	10MHz	20600	16QAM	6	0	High	-27.18	PASS

4.2 Test Graphs

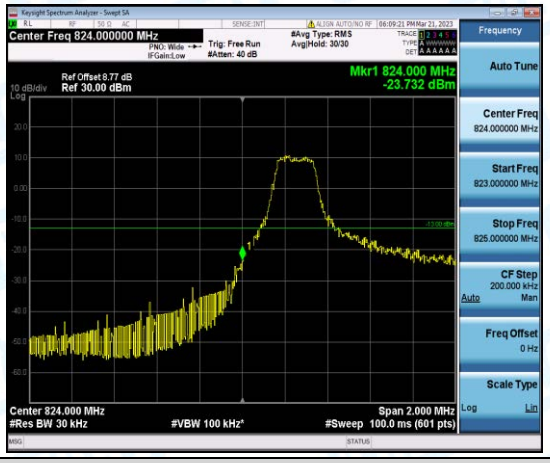


Band5-1.4MHz-QPSK-20407-1-0-Low--24.13-PASS

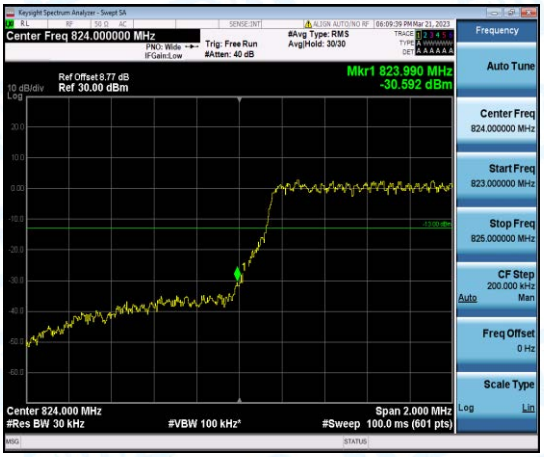
Band5-1.4MHz-QPSK-20407-6-0-Low--30.69-PASS

Band5-1.4MHz-QPSK-20643-1-0-High--33.93-PASS

Band5-1.4MHz-QPSK-20643-6-0-High--31.65-PASS



Band5-1.4MHz-16QAM-20407-1-0-Low--23.73-PASS



Band5-1.4MHz-16QAM-20407-6-0-Low--30.59-PASS

Band5-1.4MHz-16QAM-20643-1-0-High--35.28-PASS

Band5-1.4MHz-16QAM-20643-6-0-High--31.51-PASS

Band5-3MHz-QPSK-20415-1-0-Low--34.73-PASS