



Appendix Test Data for LTE_band_13

Product Name: 4G Battery Camera

Test Model: SP1-4G



Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	16QAM	23205	1RB#24	23.12	2.90	23.87	≤34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.09	2.90	23.84	≤34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.50	2.90	23.25	≤34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.09	2.90	23.84	≤34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.24	2.90	22.99	≤34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.12	2.90	23.87	≤34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.42	2.90	23.17	≤34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.17	2.90	23.92	≤34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.51	2.90	23.26	≤34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.00	2.90	24.75	≤34.77	PASS
Band13	5MHz	QPSK	23205	1RB#0	24.25	2.90	25.00	≤34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.37	2.90	24.12	≤34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.33	2.90	25.08	≤34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.09	2.90	23.84	≤34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.92	2.90	24.67	≤34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.84	2.90	23.59	≤34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.14	2.90	22.89	≤34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.93	2.90	23.68	≤34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.18	2.90	22.93	≤34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.34	2.90	24.09	≤34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.85	2.90	23.60	≤34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.31	2.90	24.06	≤34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.82	2.90	23.57	≤34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.99	2.90	23.74	≤34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.51	2.90	23.26	≤34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.97	2.90	24.72	≤34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.90	2.90	23.65	≤34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.87	2.90	24.62	≤34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.58	2.90	23.33	≤34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.96	2.90	23.71	≤34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.46	2.90	23.21	≤34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.11	2.90	23.86	≤34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.46	2.90	23.21	≤34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.06	2.90	23.81	≤34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.34	2.90	23.09	≤34.77	PASS



Band13	5MHz	QPSK	23230	25RB#0	22.96	2.90	23.71	≤34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.53	2.90	23.28	≤34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.84	2.90	24.59	≤34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.51	2.90	23.26	≤34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.94	2.90	22.69	≤34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.59	2.90	23.34	≤34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.94	2.90	22.69	≤34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.41	2.90	23.16	≤34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.79	2.90	22.54	≤34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.50	2.90	23.25	≤34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.75	2.90	22.50	≤34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.78	2.90	23.53	≤34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.64	2.90	24.39	≤34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.49	2.90	24.24	≤34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.39	2.90	24.14	≤34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.30	2.90	24.05	≤34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.10	2.90	23.85	≤34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.95	2.90	23.70	≤34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.33	2.90	23.08	≤34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.01	2.90	23.76	≤34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.36	2.90	23.11	≤34.77	PASS

EIRP=Conducted Power+Antenna Gain-2.15

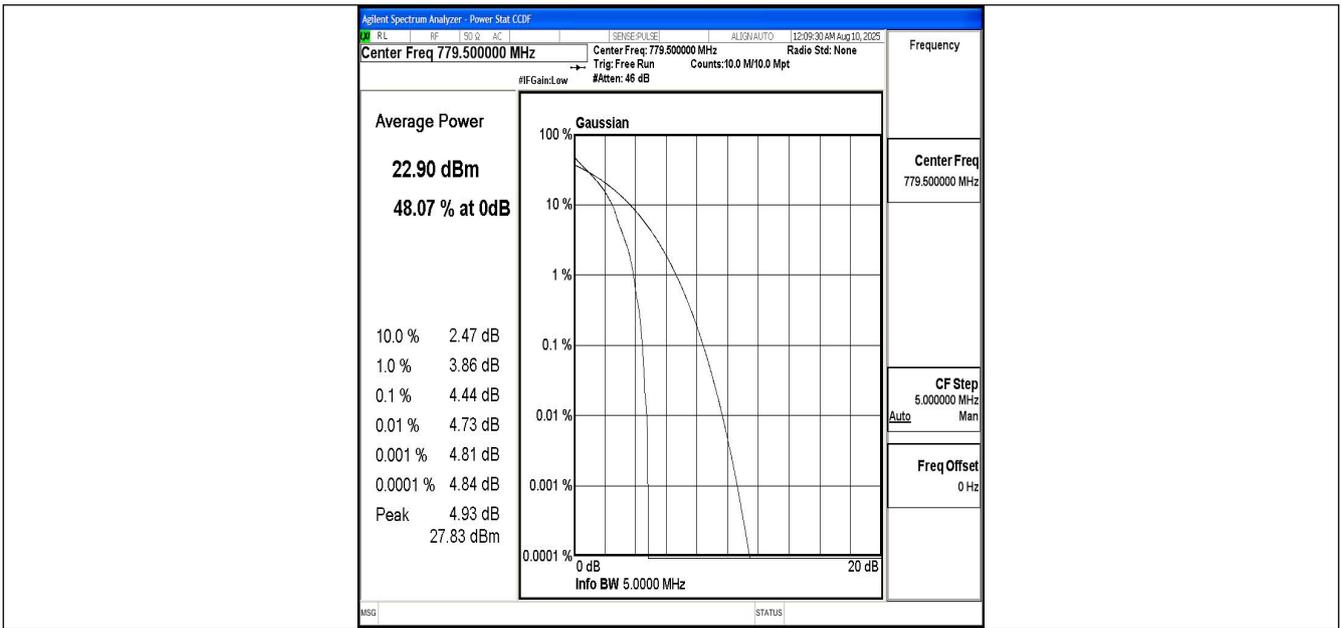


Peak-to-Average Ratio(CCDF)

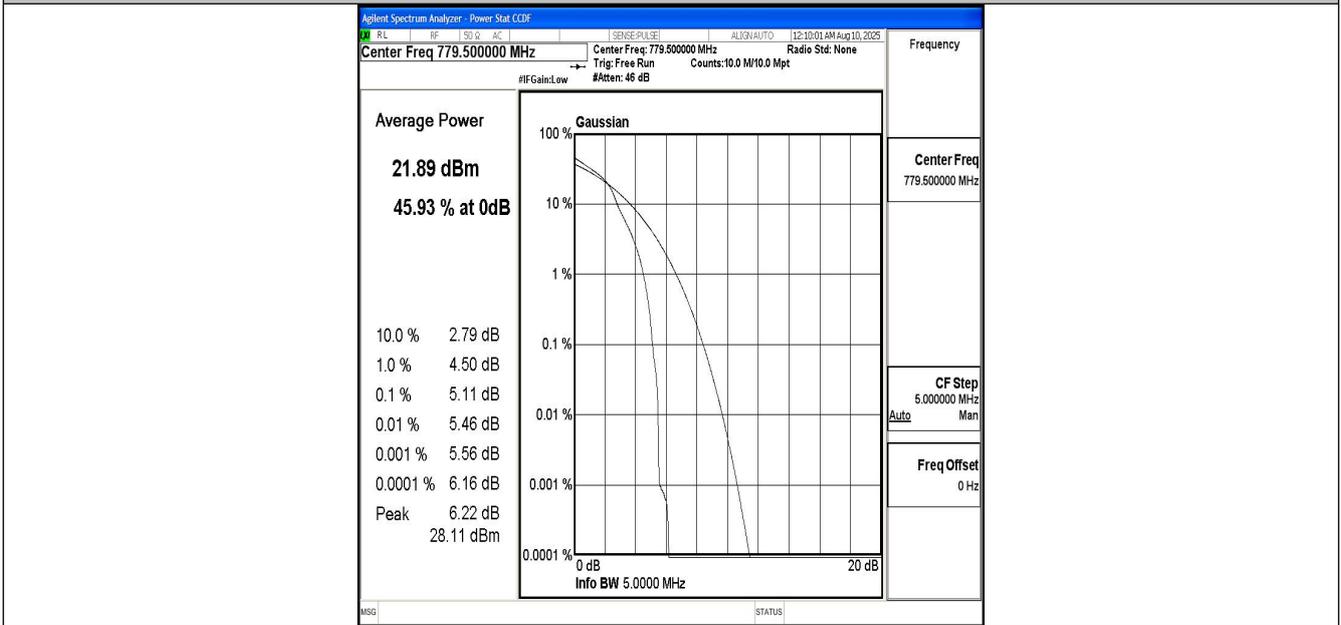
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.44	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.11	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.38	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.96	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.67	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.16	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.39	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.01	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.60	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.13	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.35	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.98	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.43	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.03	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.35	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.01	13	PASS

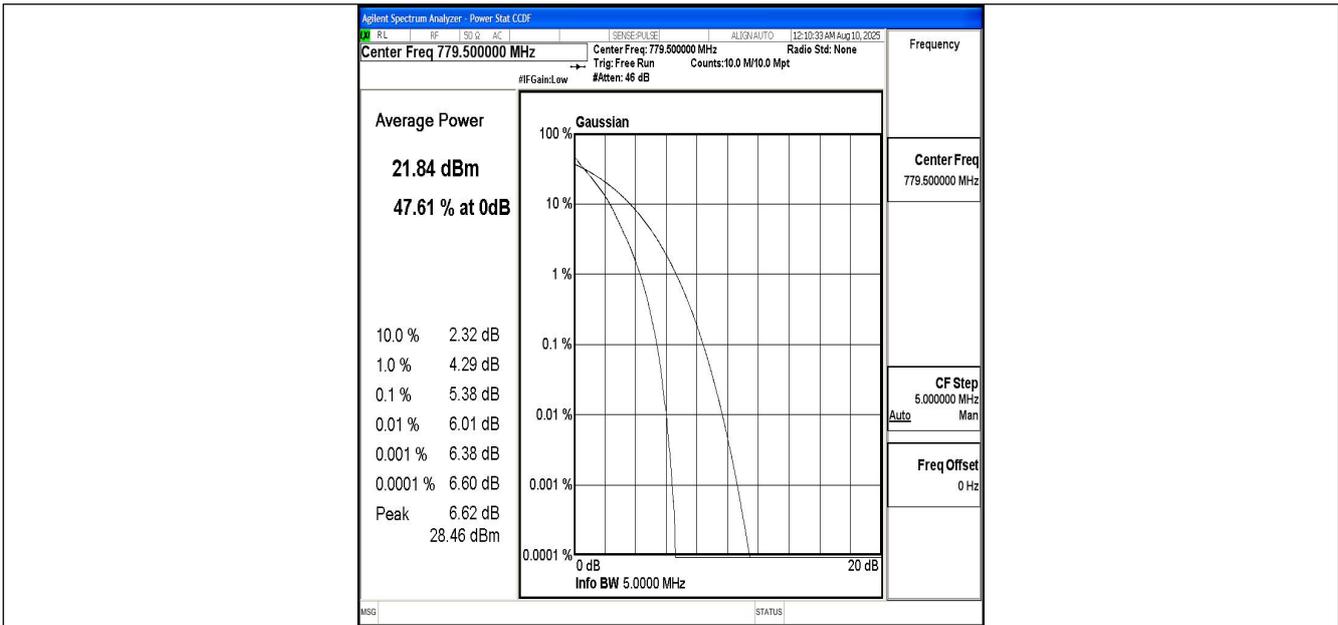
Test Graphs



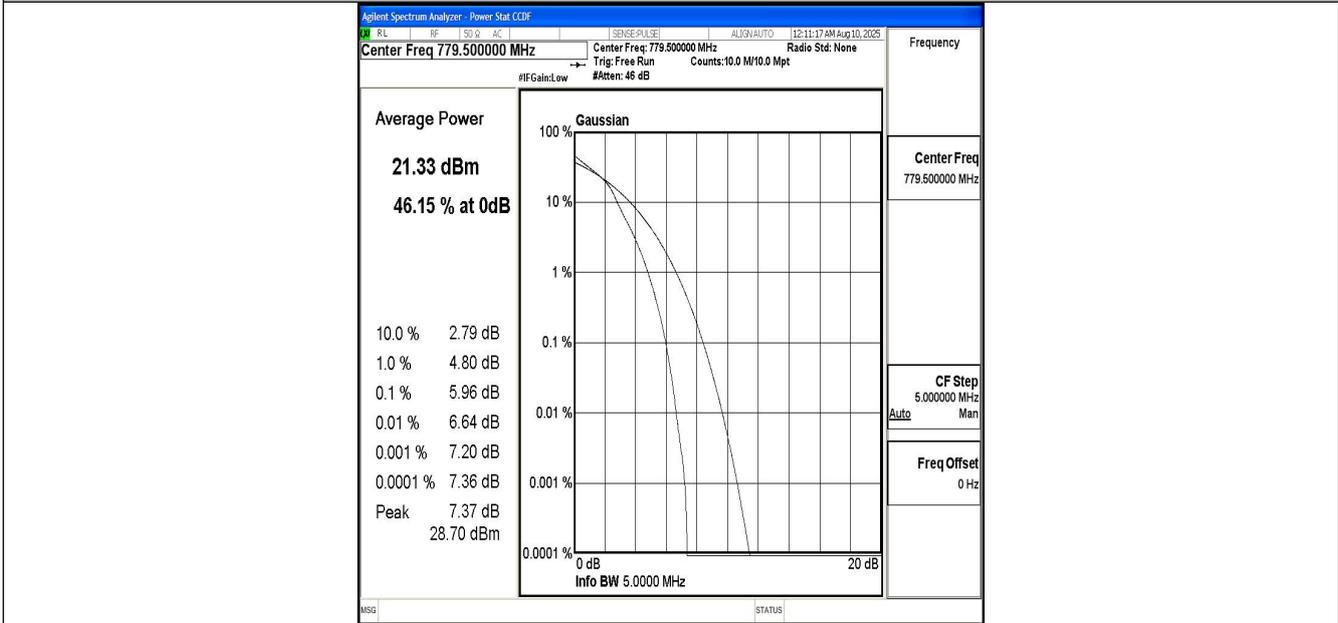
Band13-5MHz-QPSK-23205-1RB#0-PASS



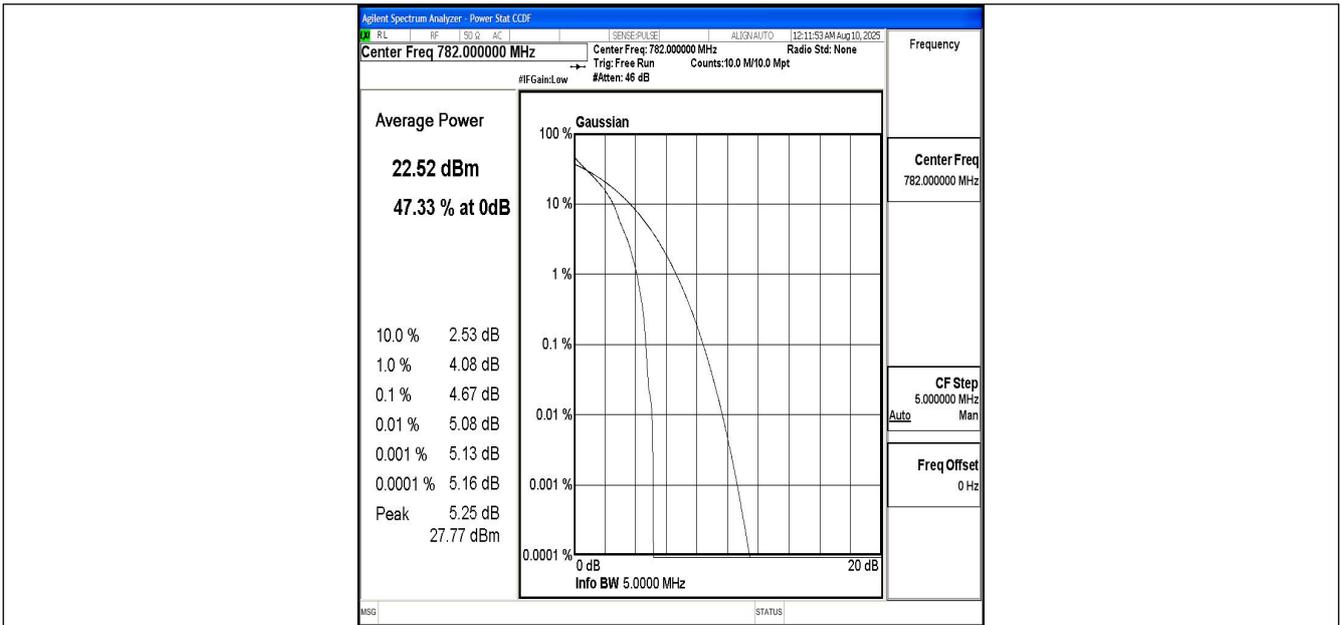
Band13-5MHz-16QAM-23205-1RB#0-PASS



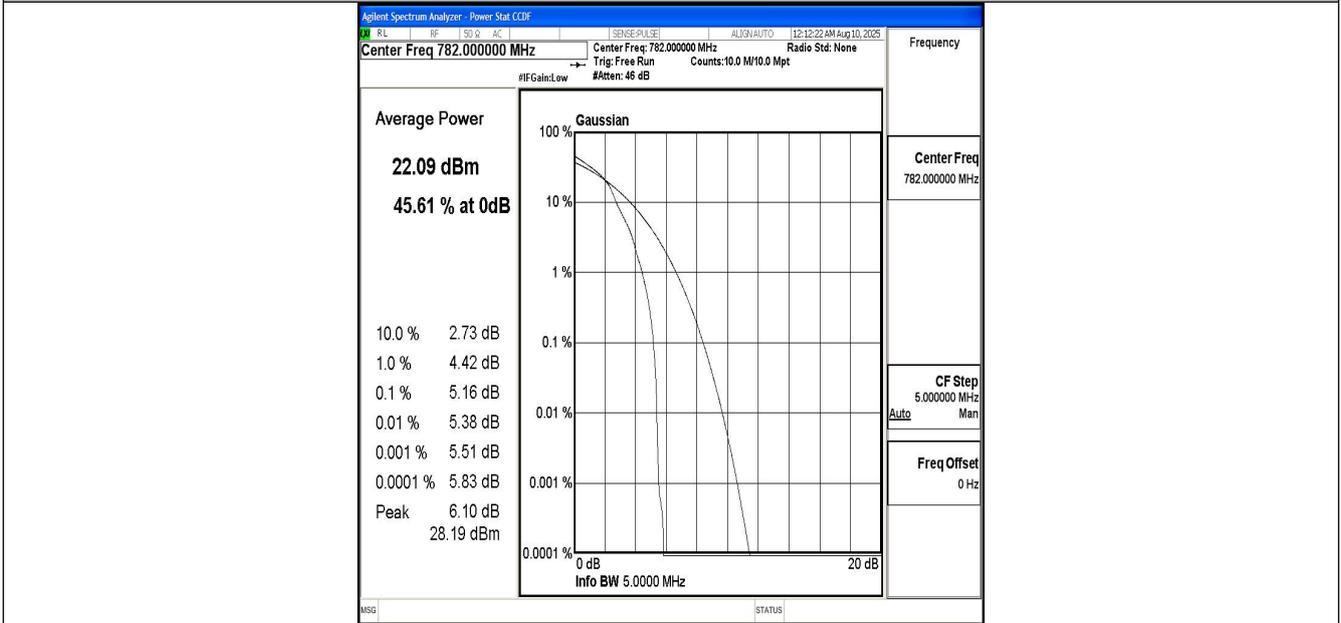
Band13-5MHz-QPSK-23205-25RB#0-PASS



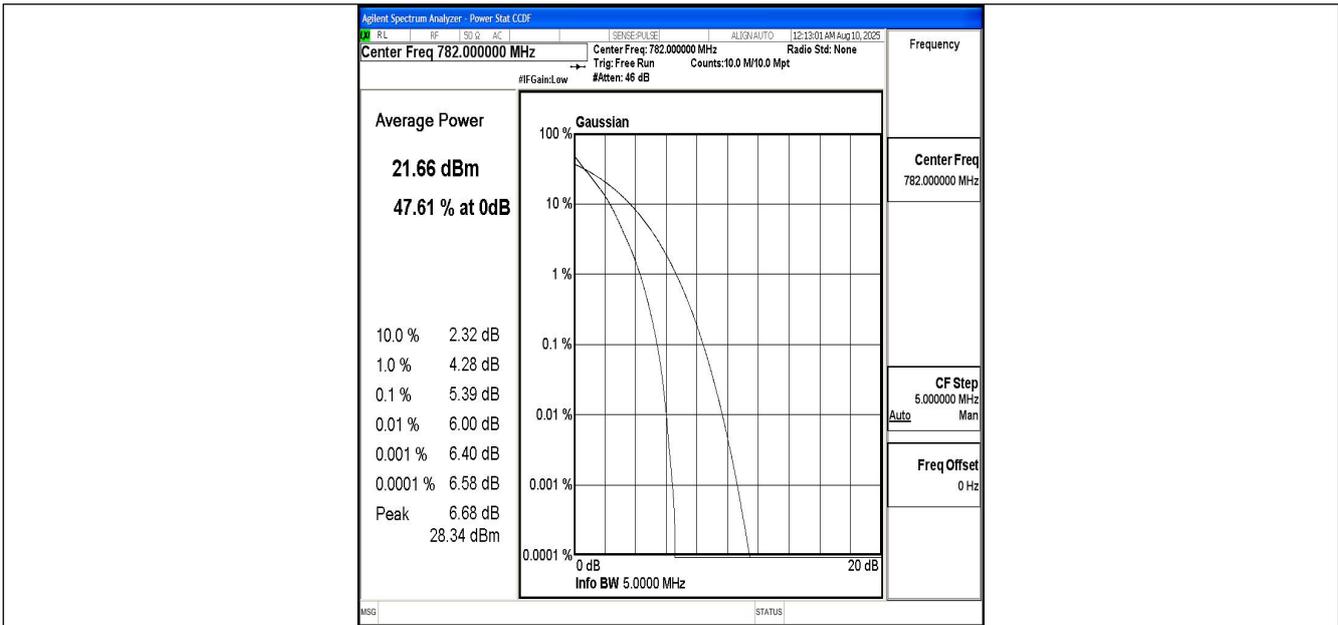
Band13-5MHz-16QAM-23205-25RB#0-PASS



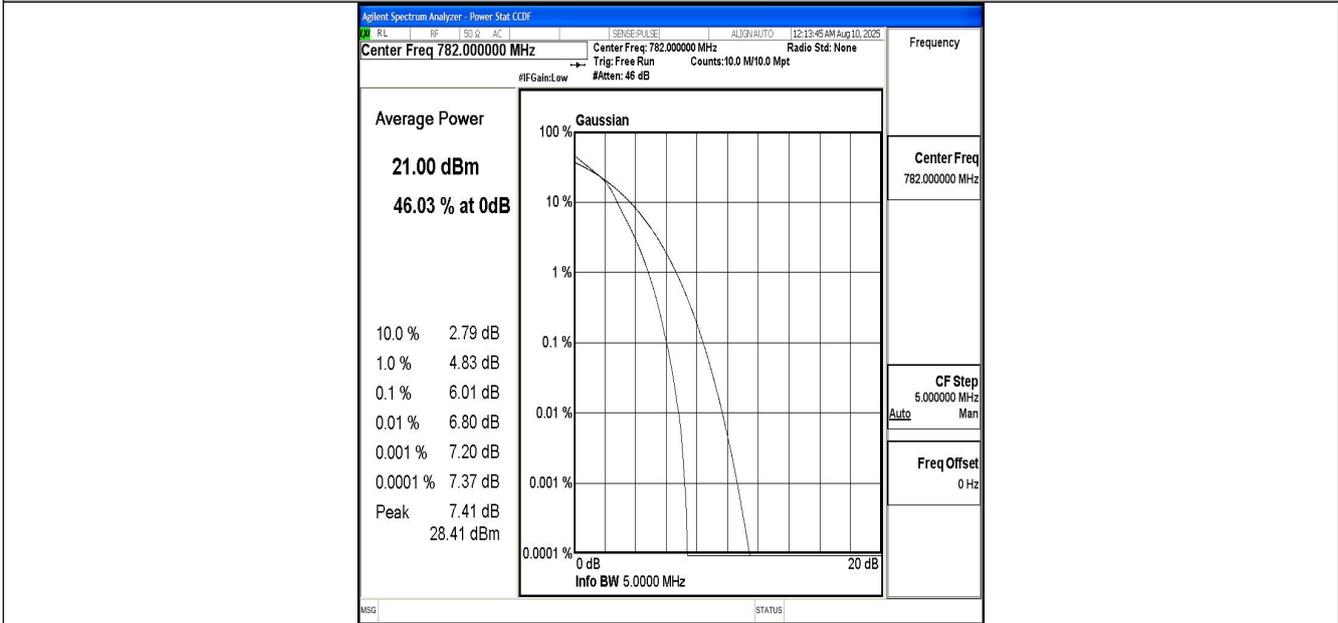
Band13-5MHz-QPSK-23230-1RB#0-PASS



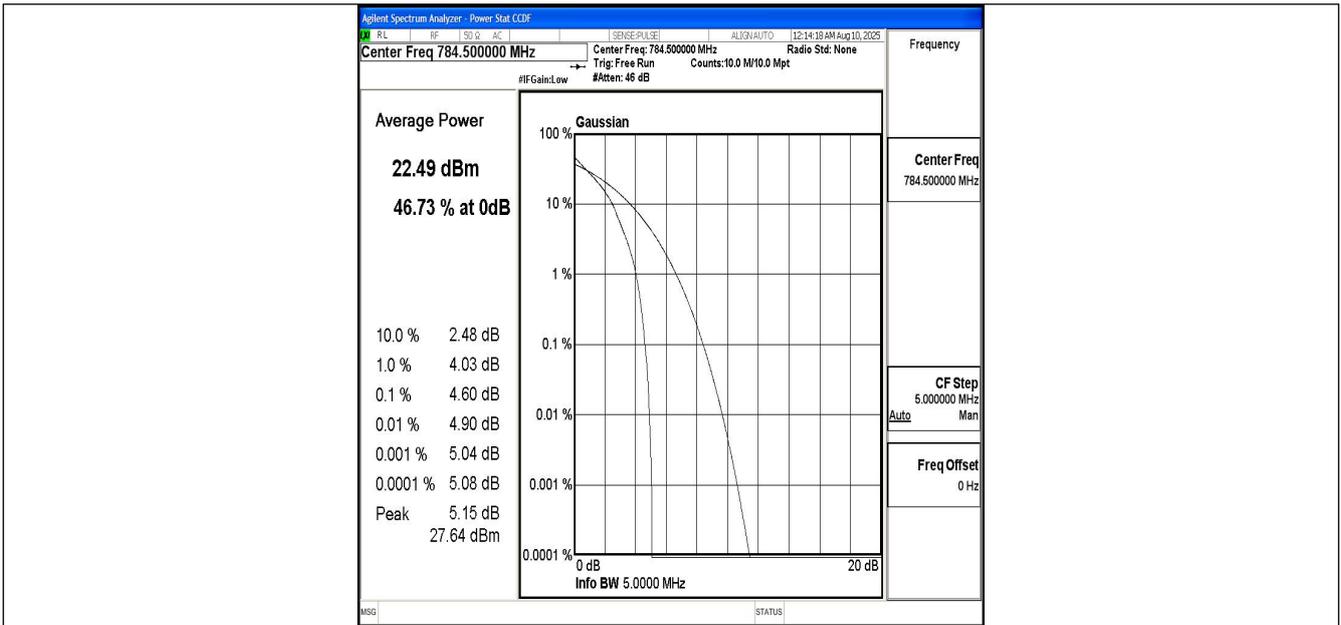
Band13-5MHz-16QAM-23230-1RB#0-PASS



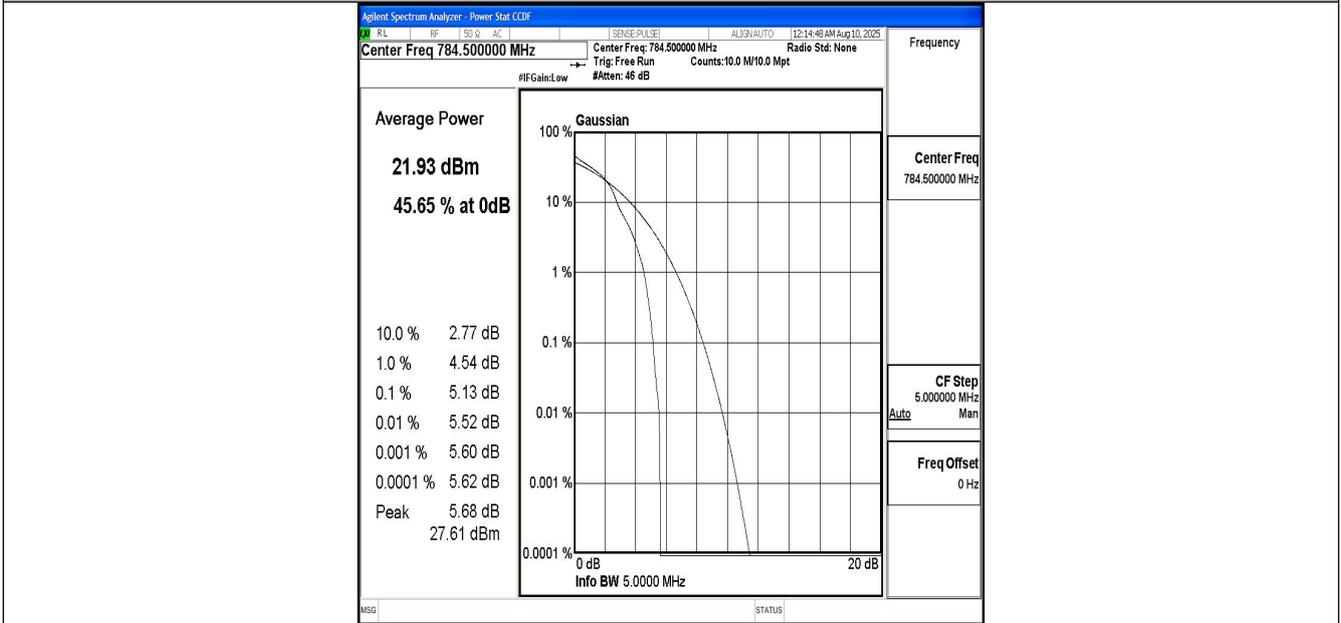
Band13-5MHz-QPSK-23230-25RB#0-PASS



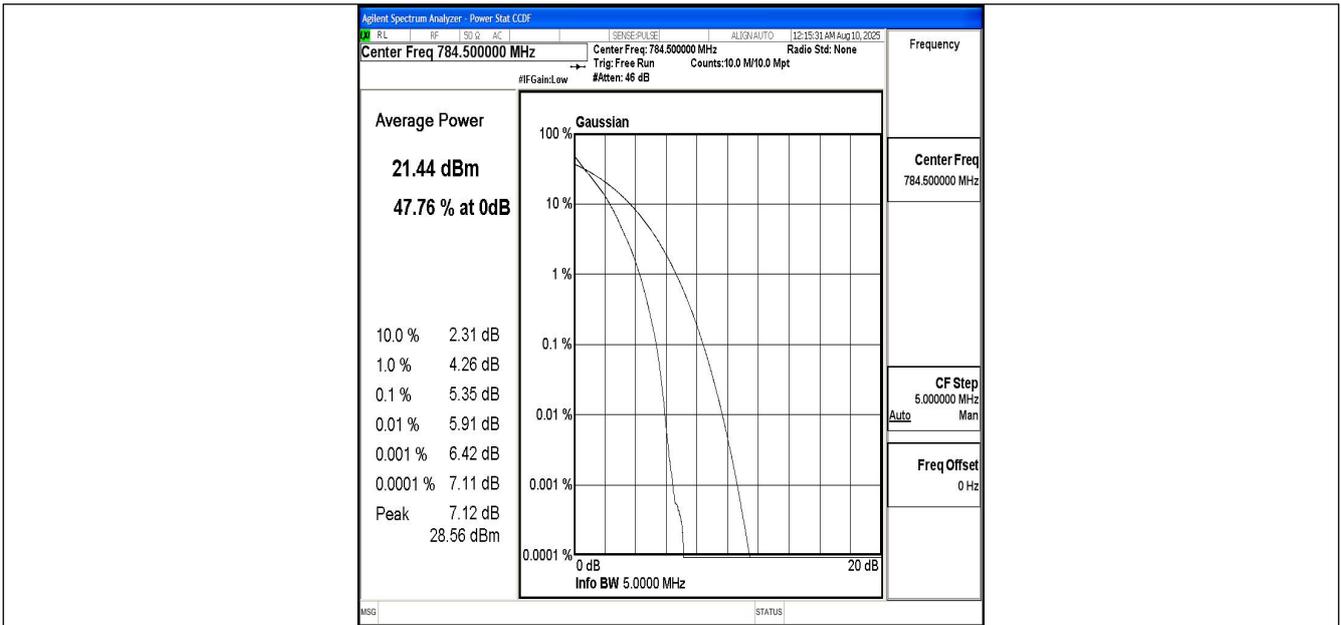
Band13-5MHz-16QAM-23230-25RB#0-PASS



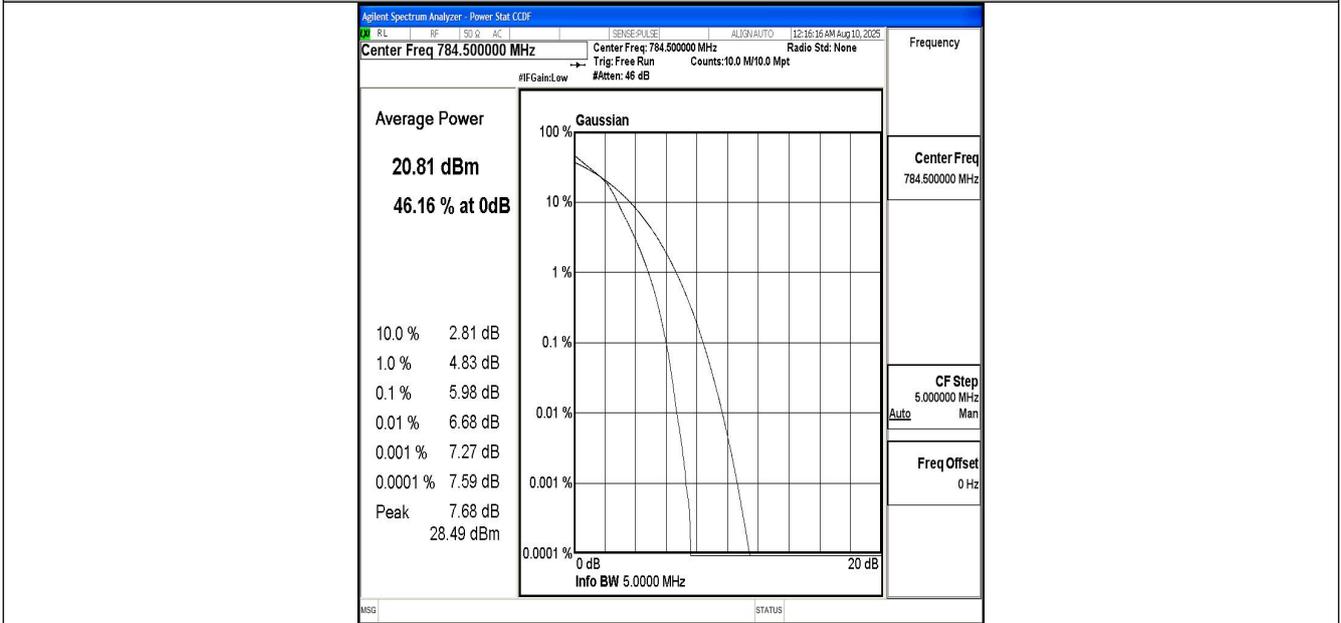
Band13-5MHz-QPSK-23255-1RB#0-PASS



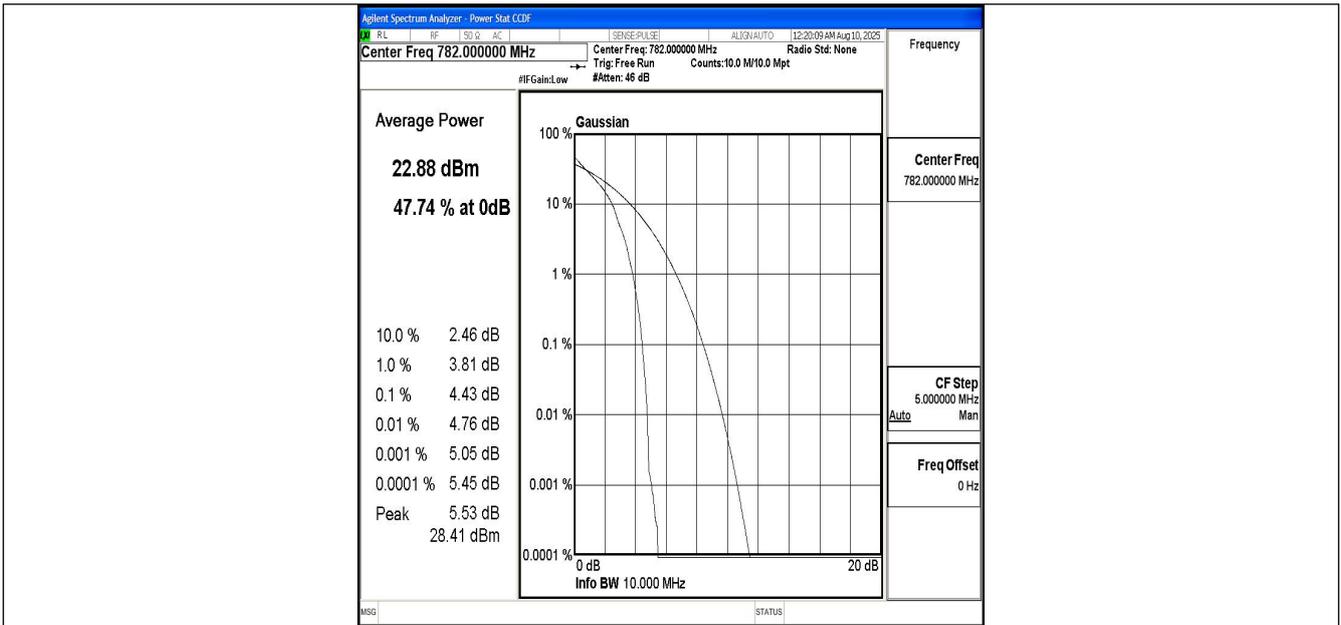
Band13-5MHz-16QAM-23255-1RB#0-PASS



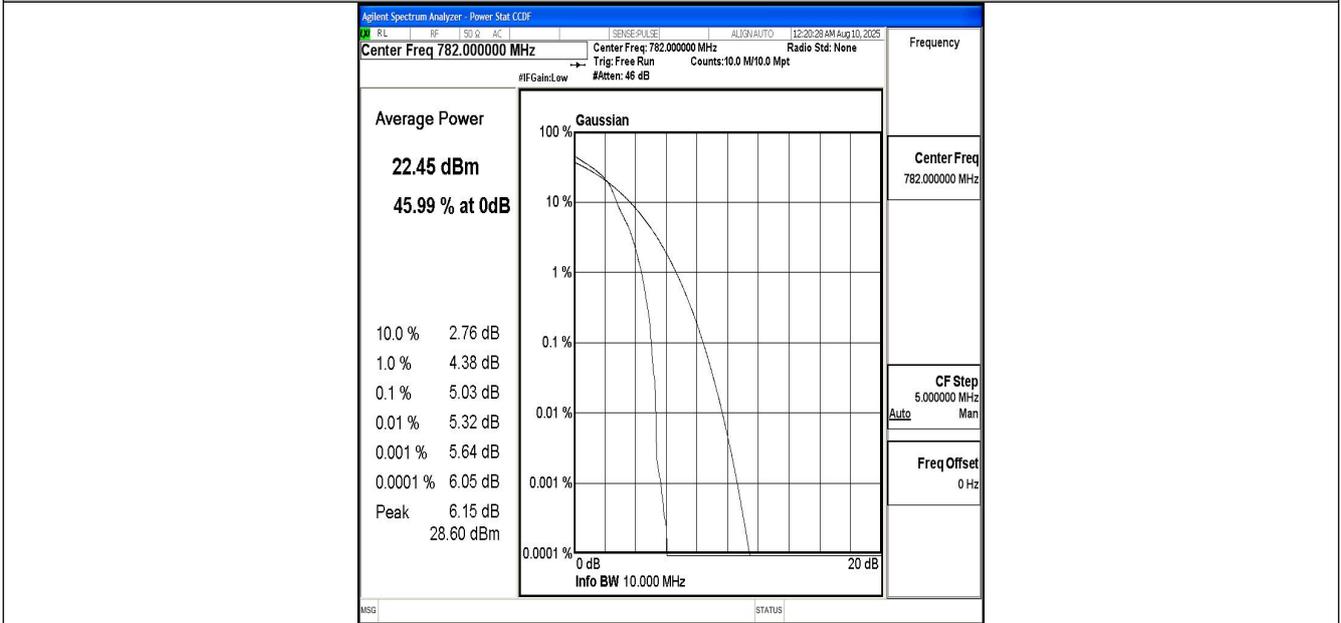
Band13-5MHz-QPSK-23255-25RB#0-PASS



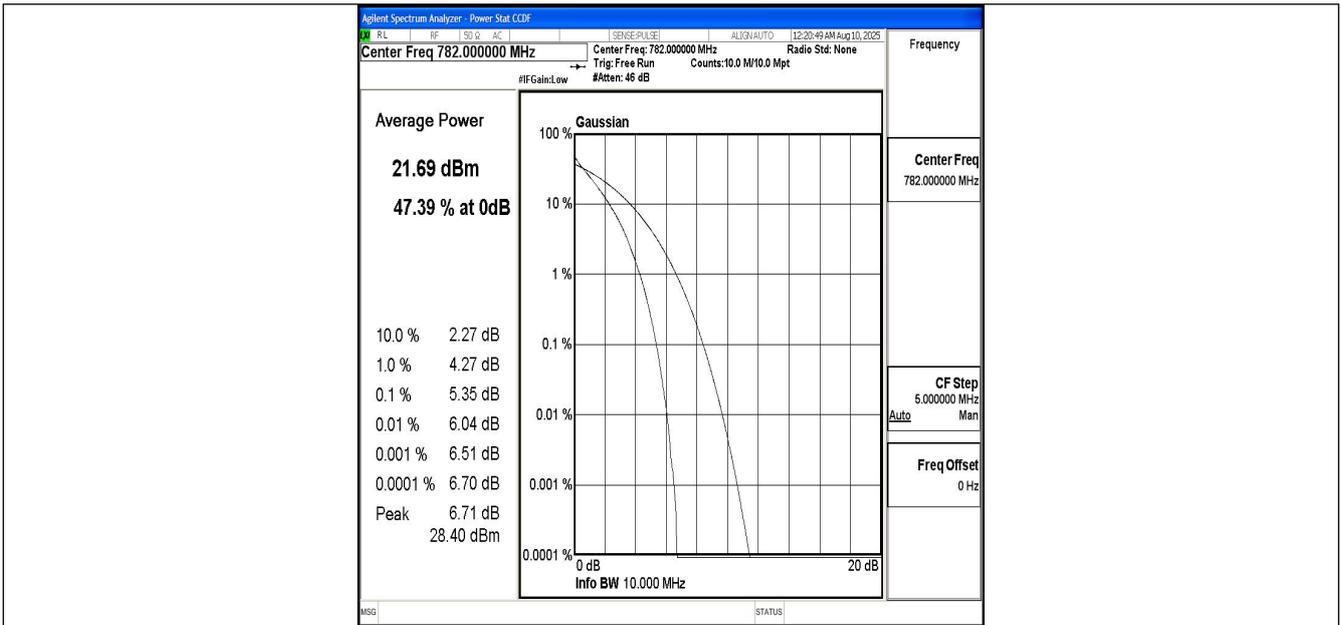
Band13-5MHz-16QAM-23255-25RB#0-PASS



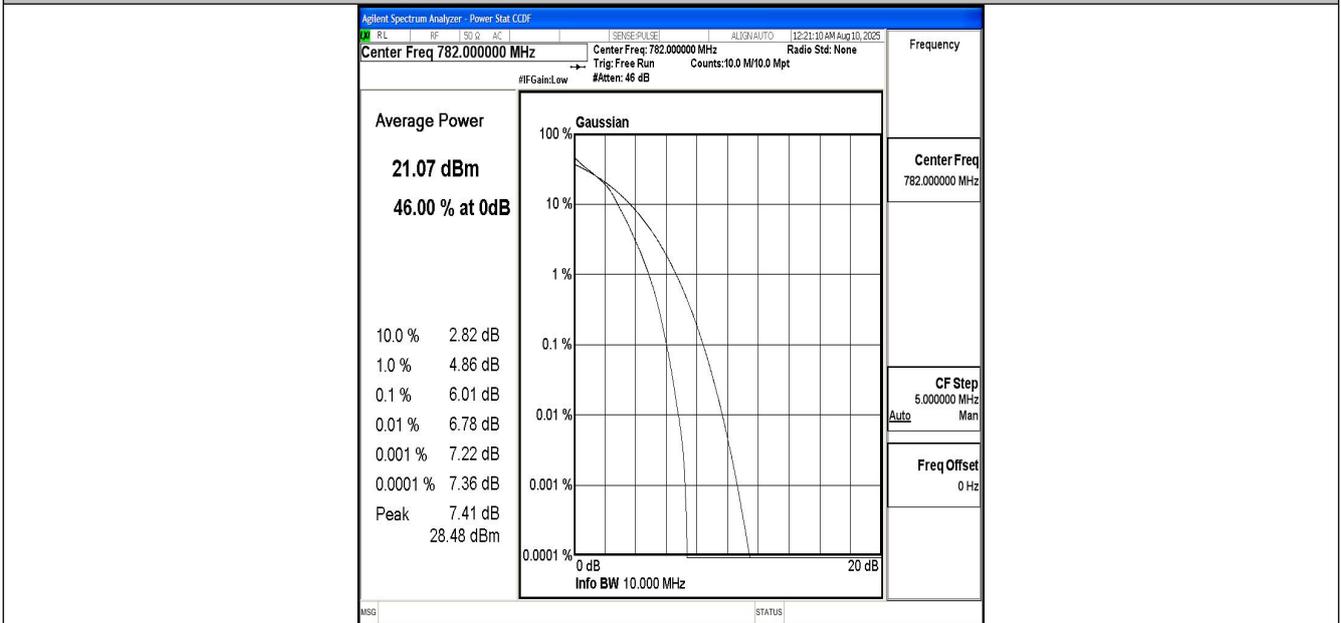
Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS



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



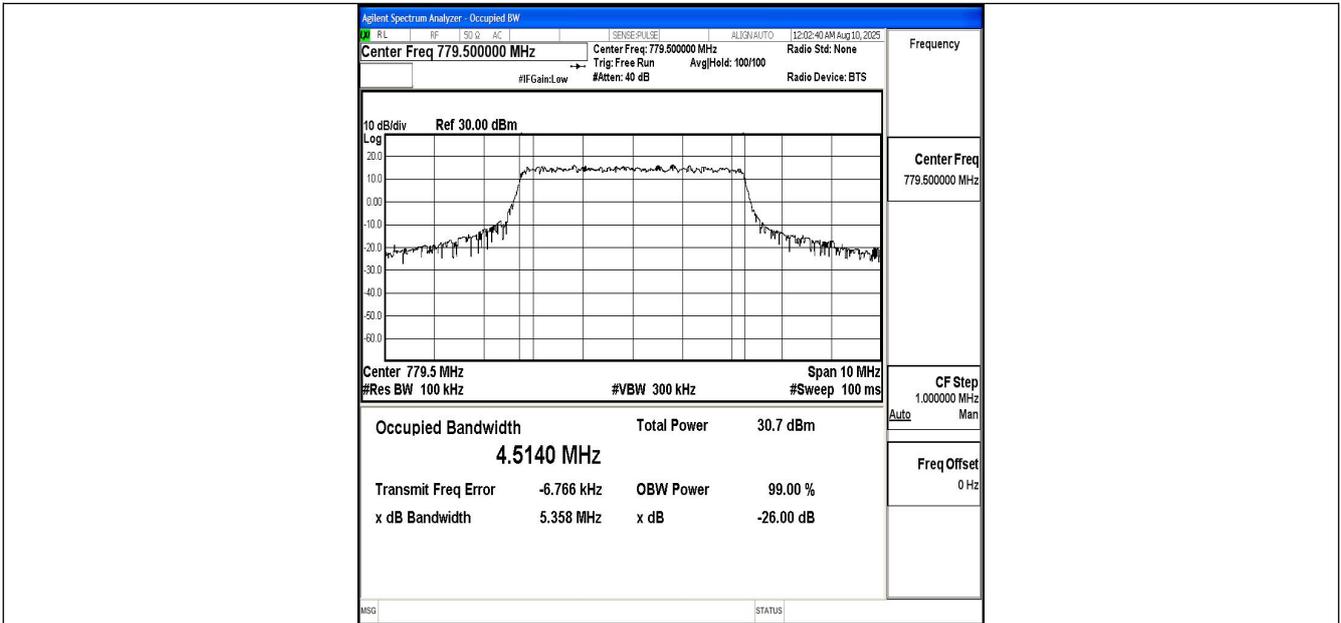
Band13-10MHz-16QAM-23230-50RB#0-PASS

26dB Bandwidth and Occupied Bandwidth

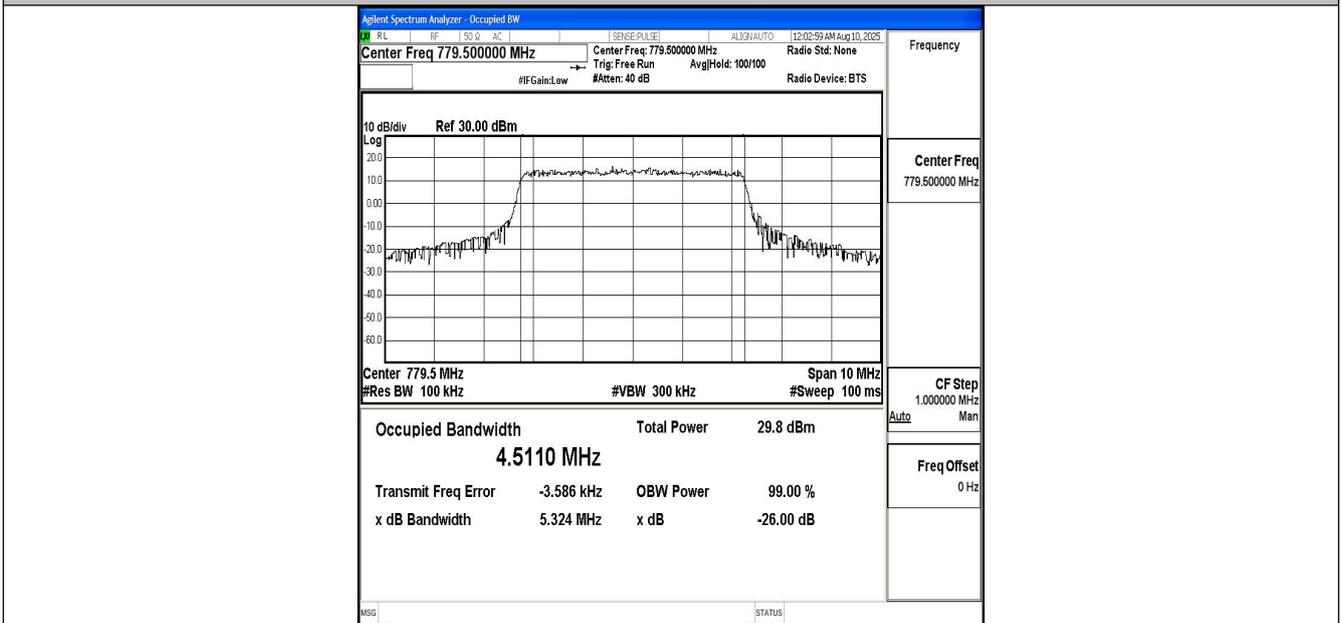
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5140	5.358	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5110	5.324	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5122	5.305	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5167	5.287	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5111	5.136	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5377	5.459	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9959	10.09	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9962	10.07	PASS

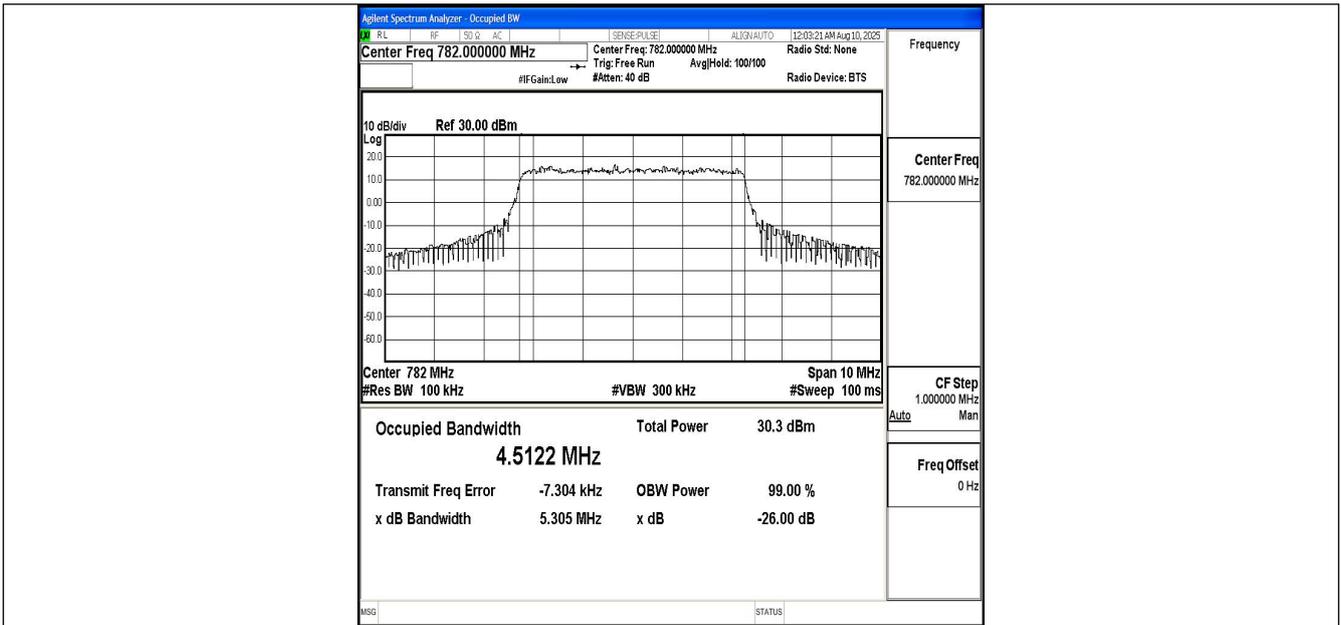
Test Graphs



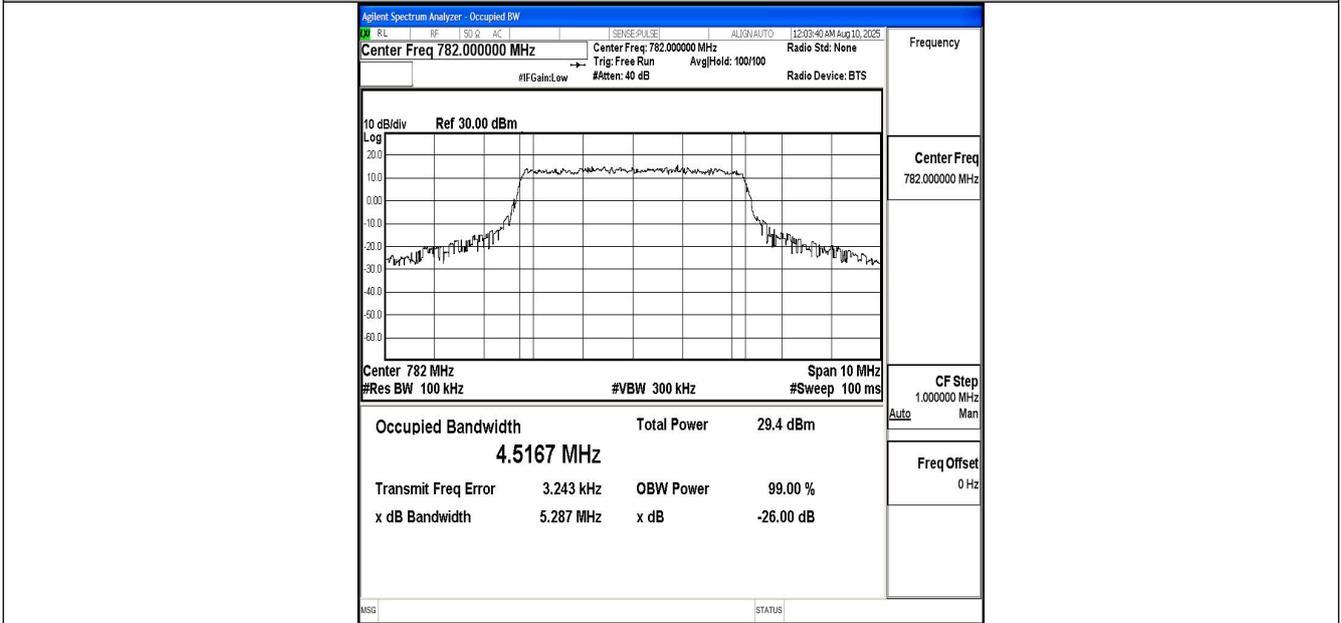
Band13-5MHz-QPSK-23205-25RB#0-PASS



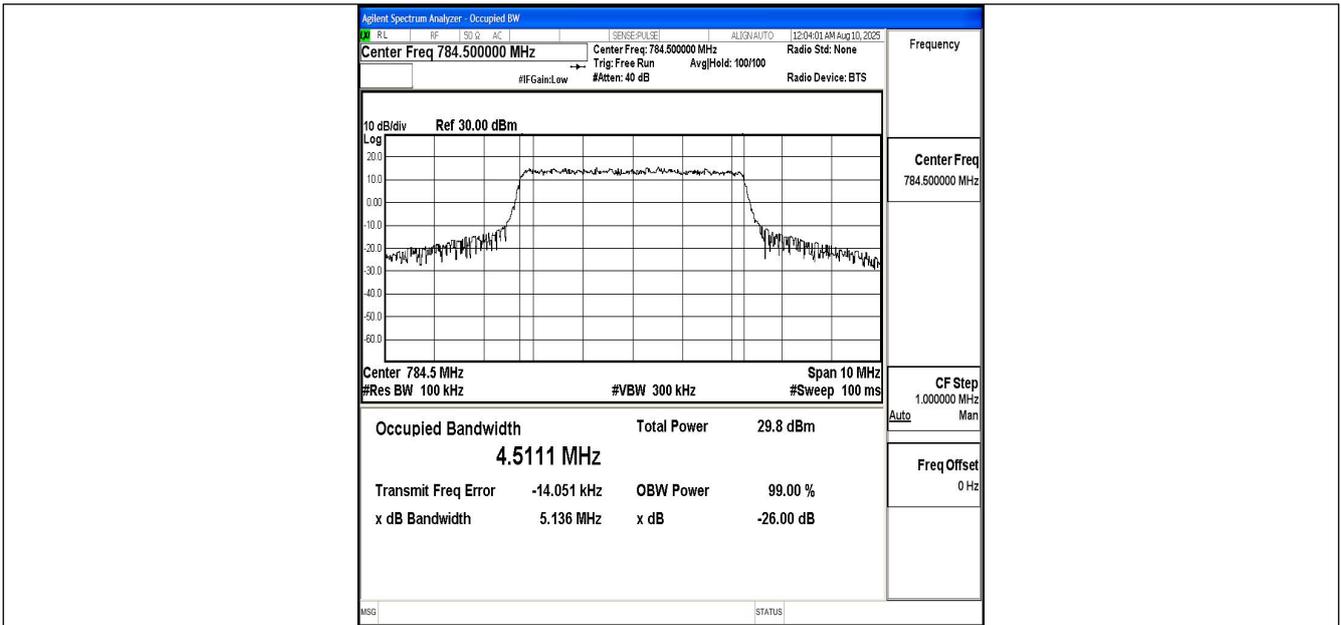
Band13-5MHz-16QAM-23205-25RB#0-PASS



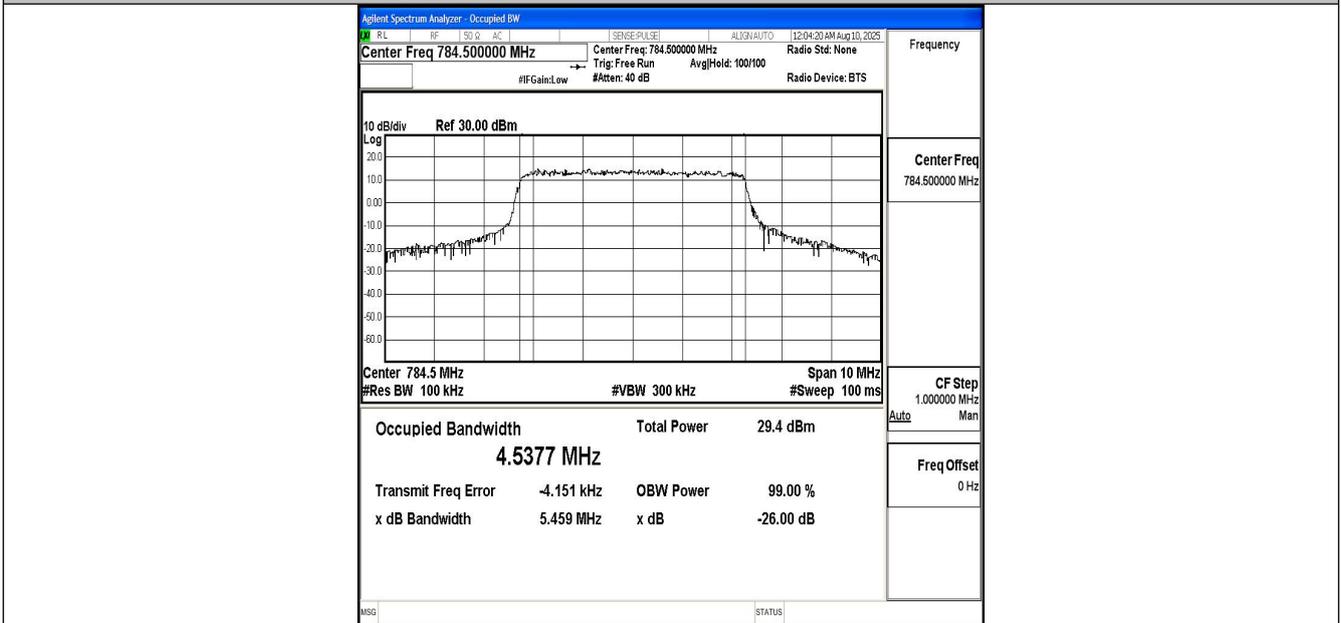
Band13-5MHz-QPSK-23230-25RB#0-PASS



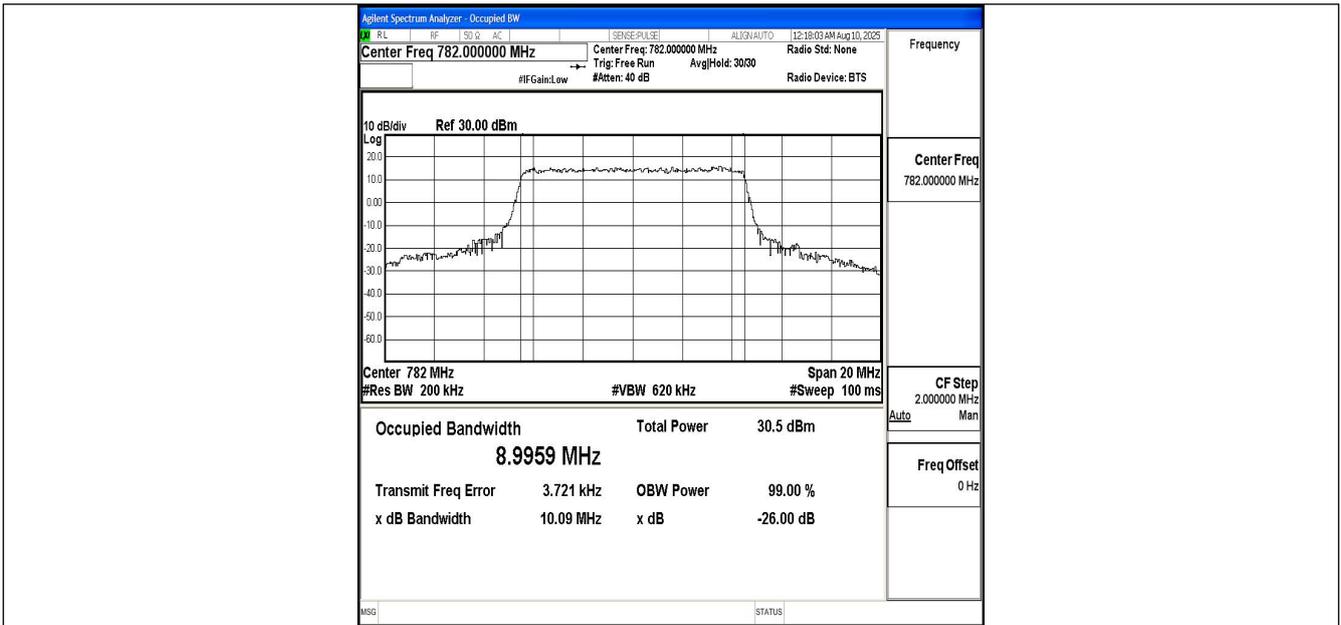
Band13-5MHz-16QAM-23230-25RB#0-PASS



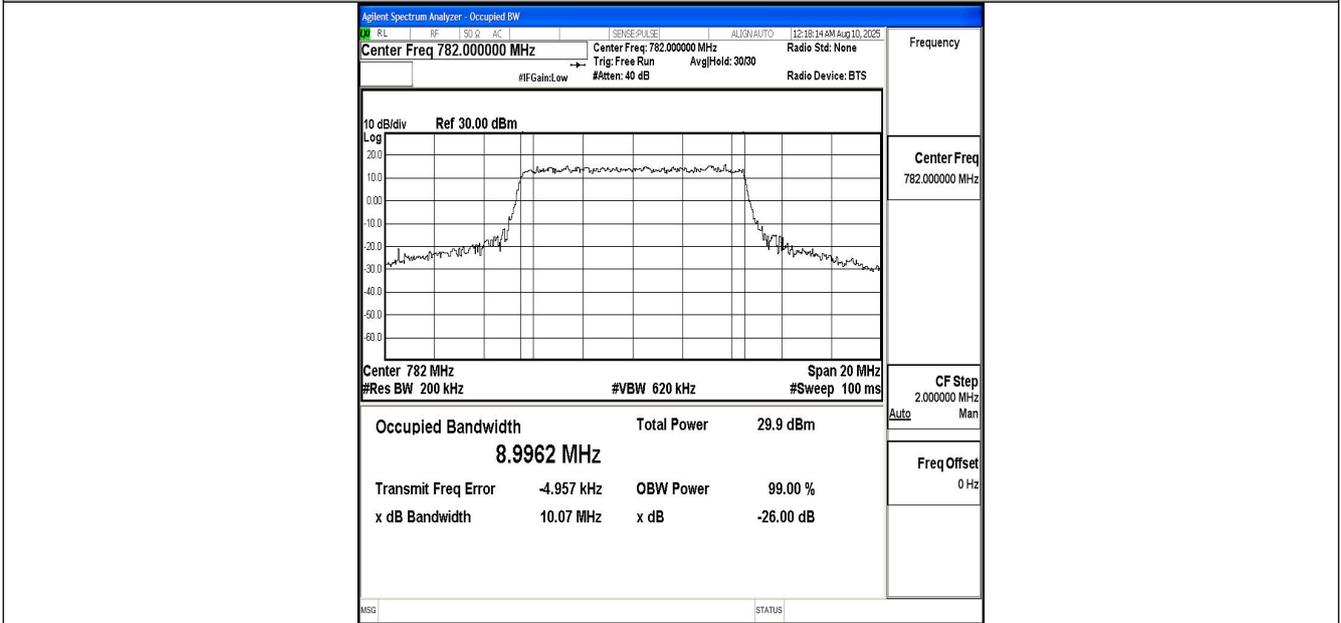
Band13-5MHz-QPSK-23255-25RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS



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



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

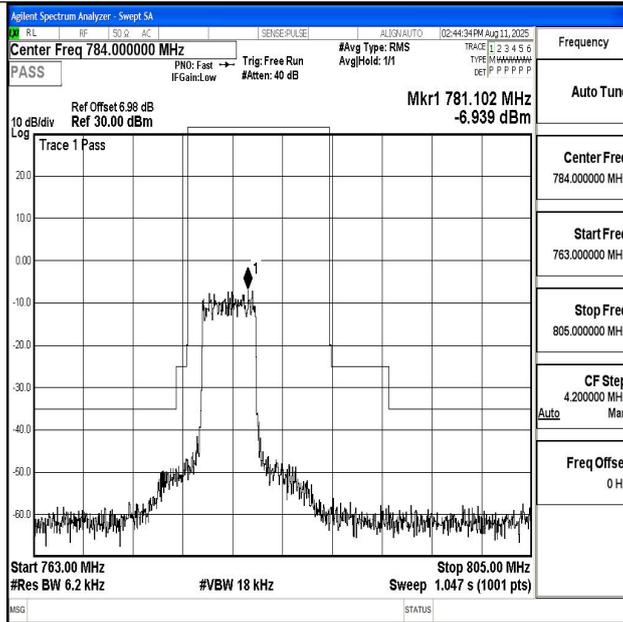


Band Edge

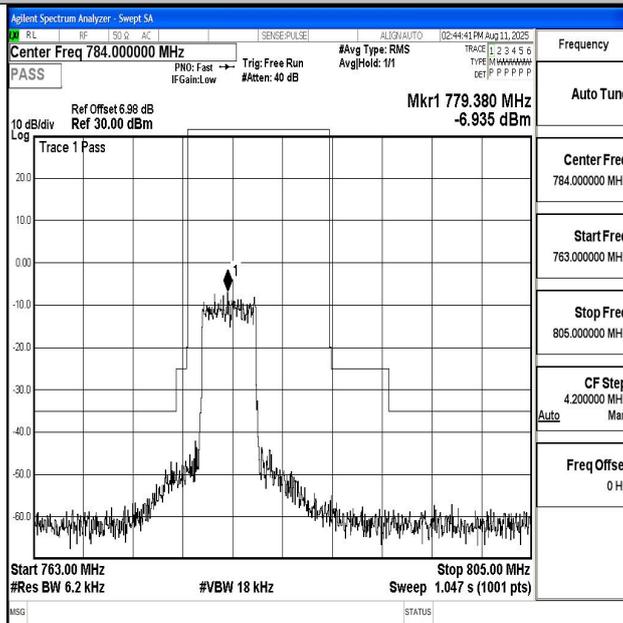
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.80	-49.12	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.63	-47.13	PASS
Band13	5MHz	QPSK	23255	25RB#0	773.50	-56.78	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.54	-45.28	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.26	-49.96	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.93	-50.51	PASS

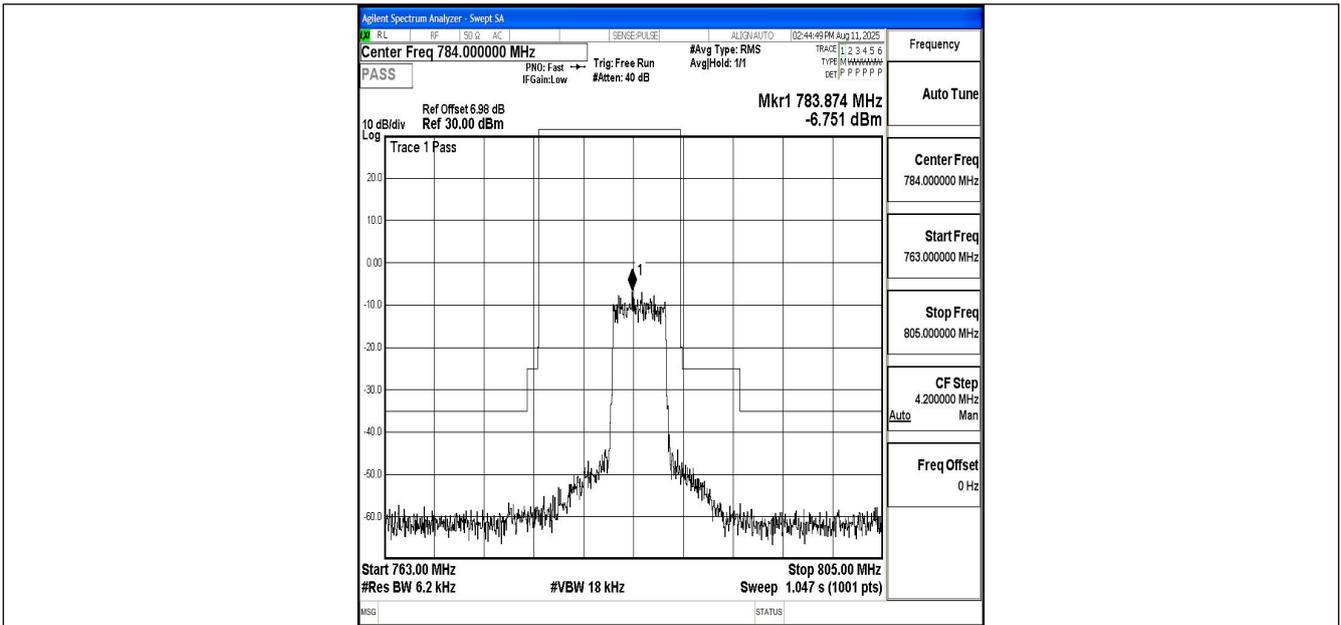
Test Graphs



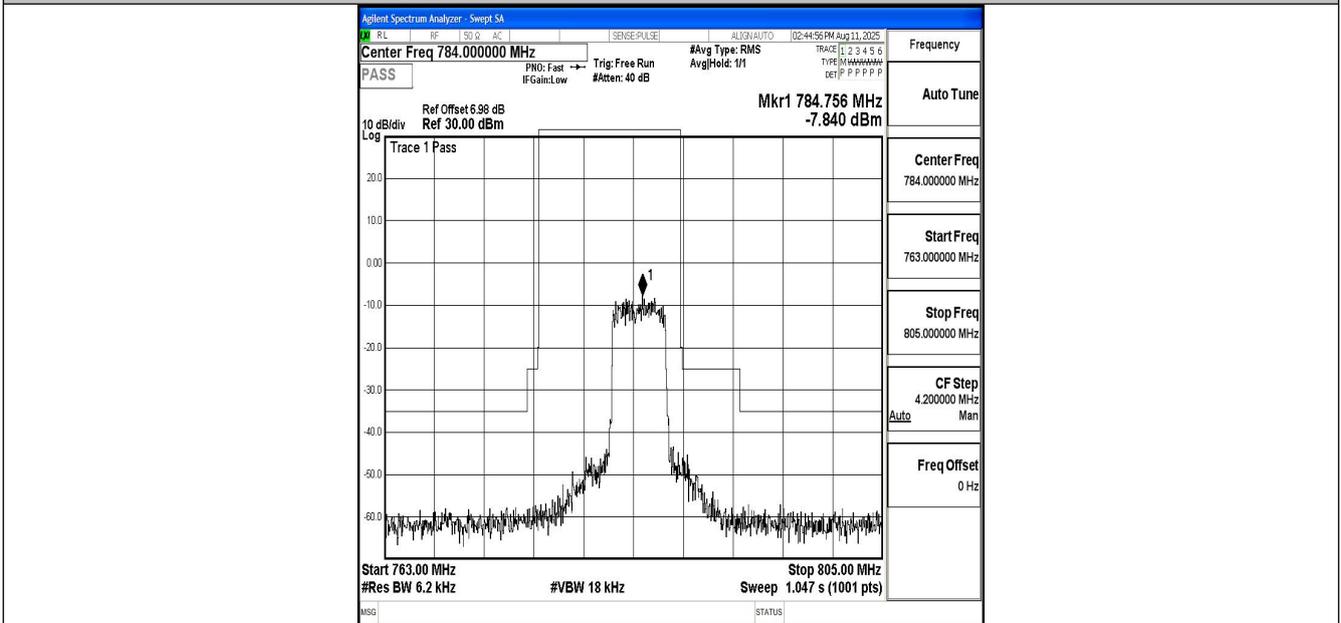
Band13_5MHz_QPSK_23205_25RB#0



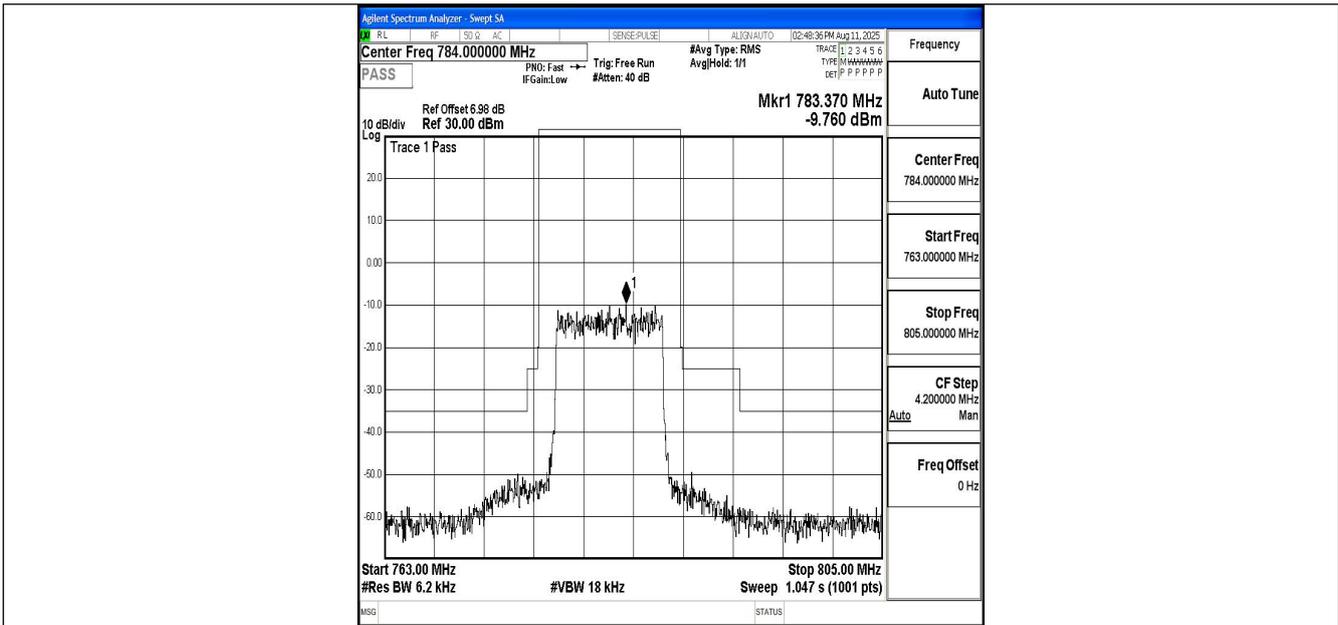
Band13_5MHz_16QAM_23205_25RB#0



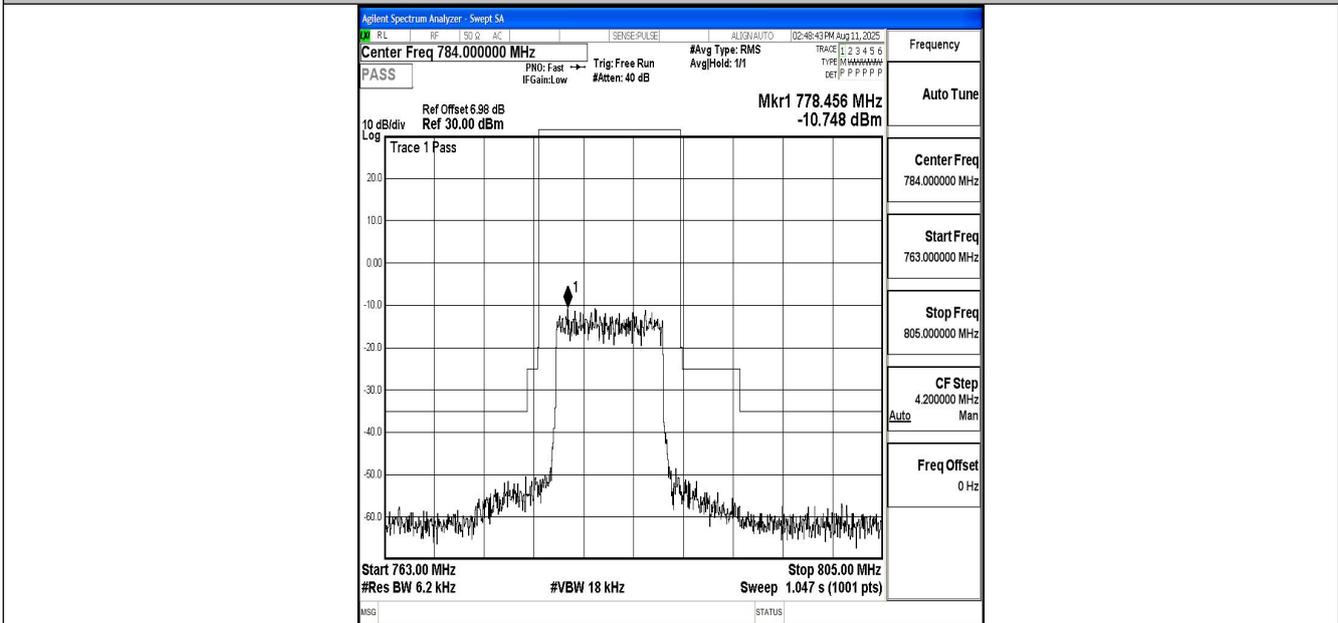
Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_50RB#0

Conducted Spurious Emission

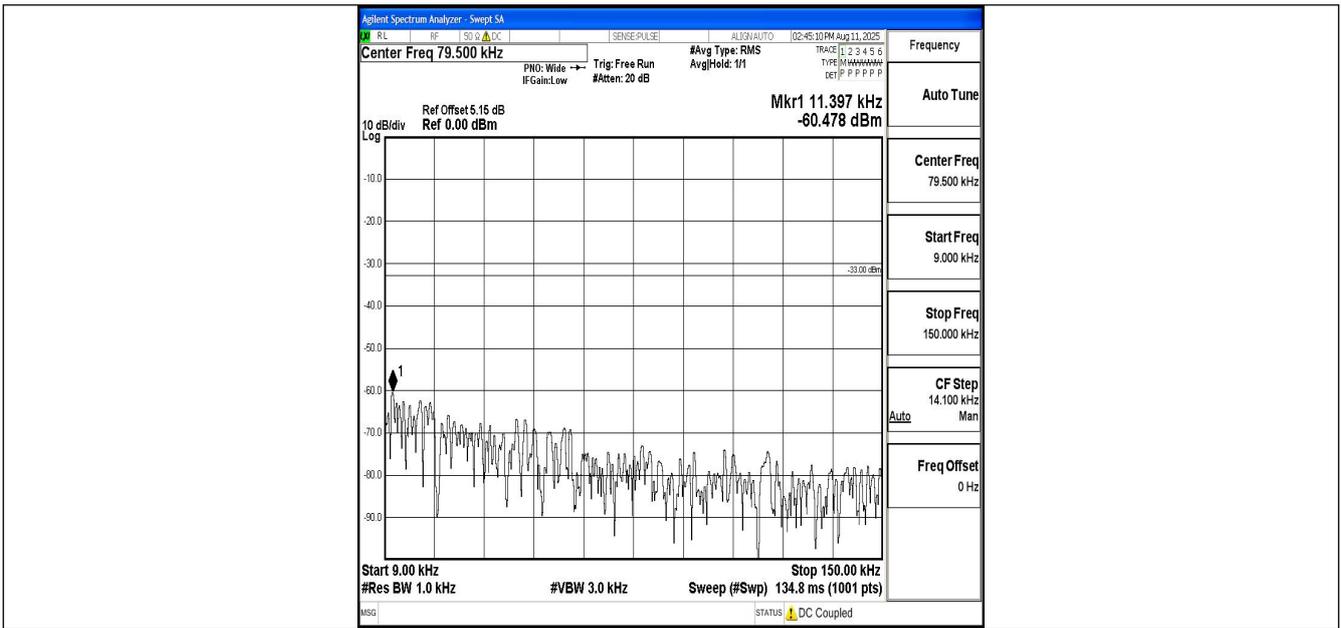
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-60.48	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-44.10	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-52.70	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-38.43	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.61	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-55.98	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-47.32	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-53.36	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-38.27	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-34.70	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-56.30	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-47.30	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-53.09	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-38.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.47	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-57.31	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-43.61	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.03	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-34.50	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-57.52	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-45.55	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-52.96	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-39.42	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-34.88	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-59.24	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-44.26	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-51.03	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-39.18	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.23	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-58.08	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-46.61	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-52.85	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-39.16	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-34.79	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-58.55	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-45.98	PASS

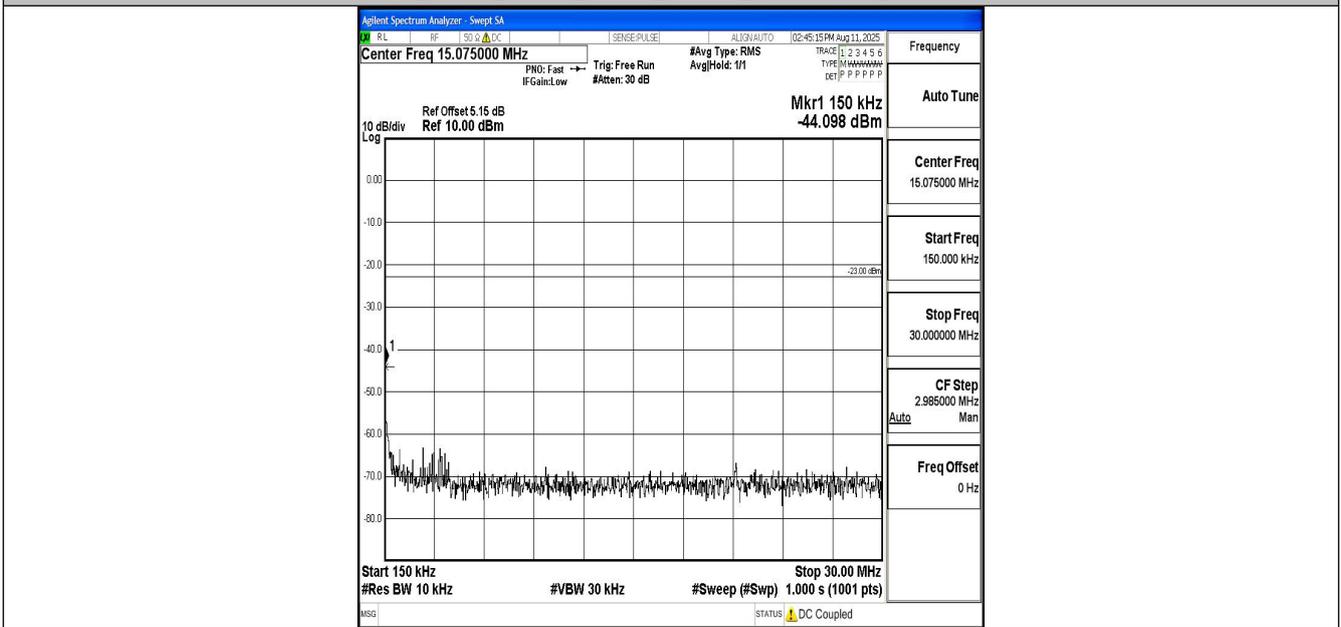


Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.99	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-37.83	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-34.93	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.40	PASS

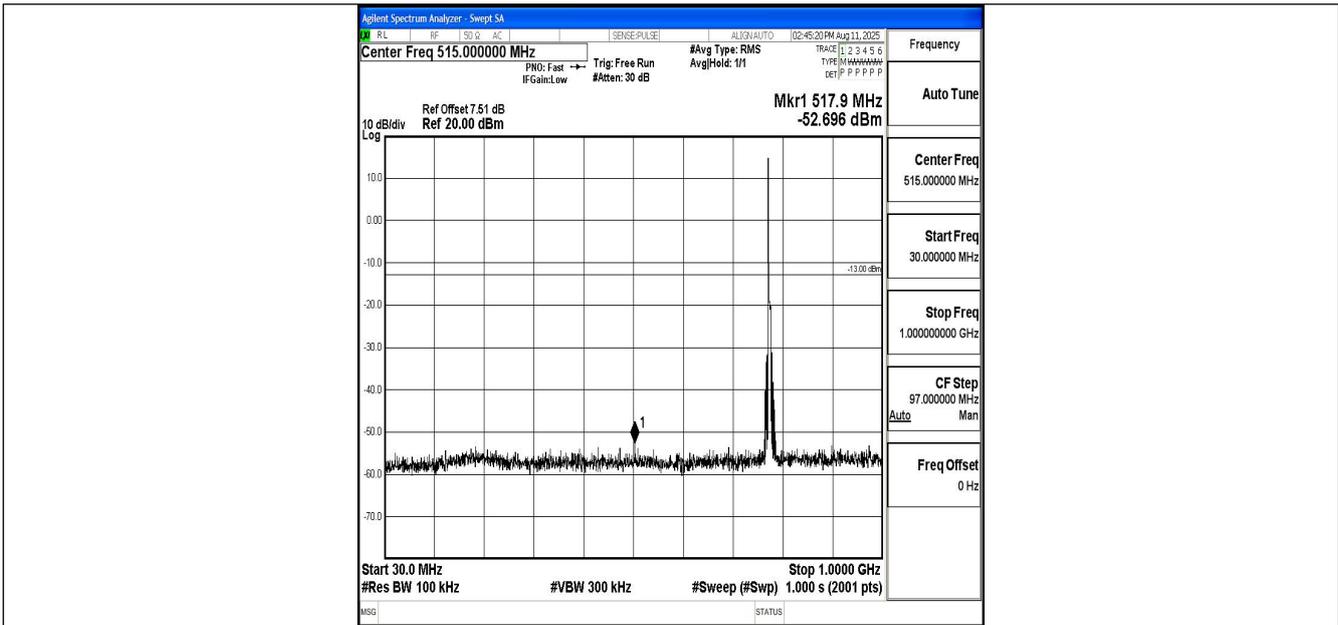
Test Graphs



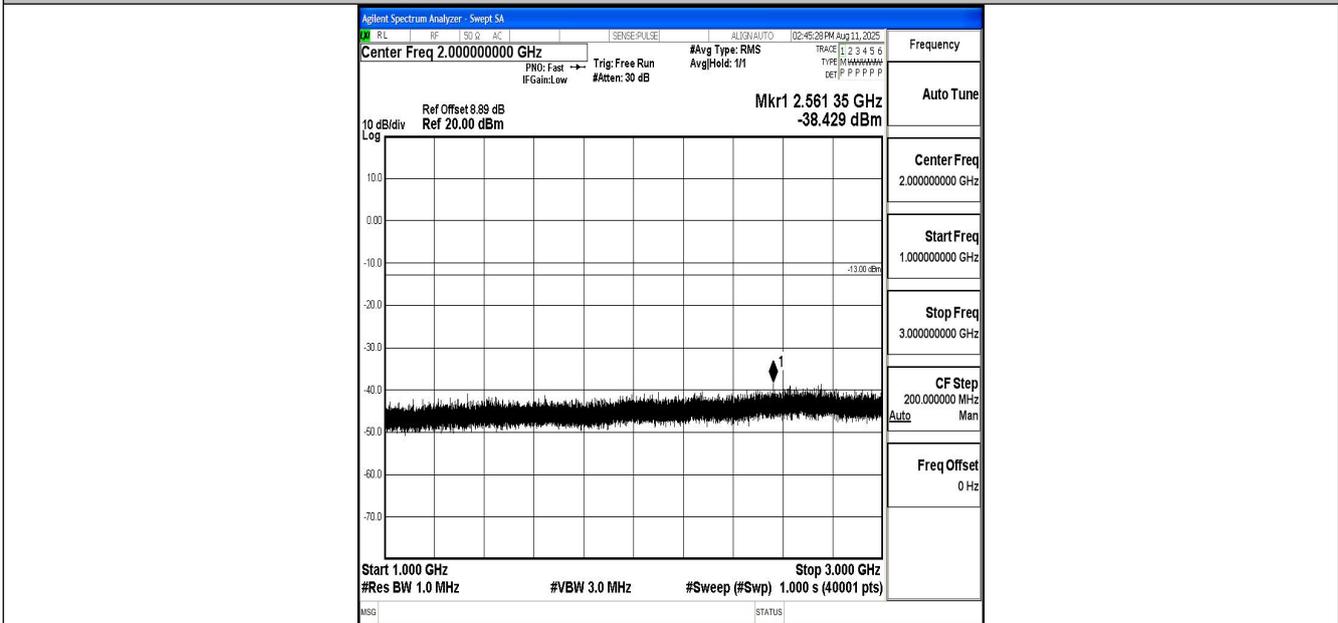
Band13_5MHz_QPSK_23205_1RB#0_0.009~0.15_0.009~0.15



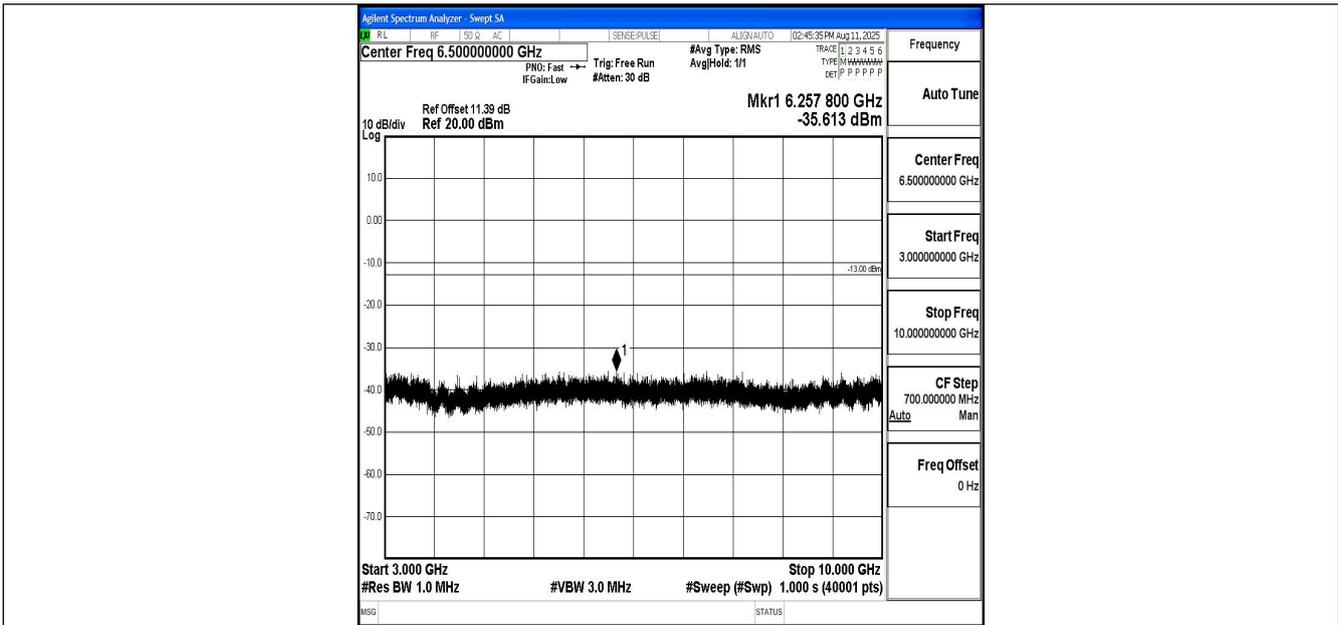
Band13_5MHz_QPSK_23205_1RB#0_0.15~30_0.15~30



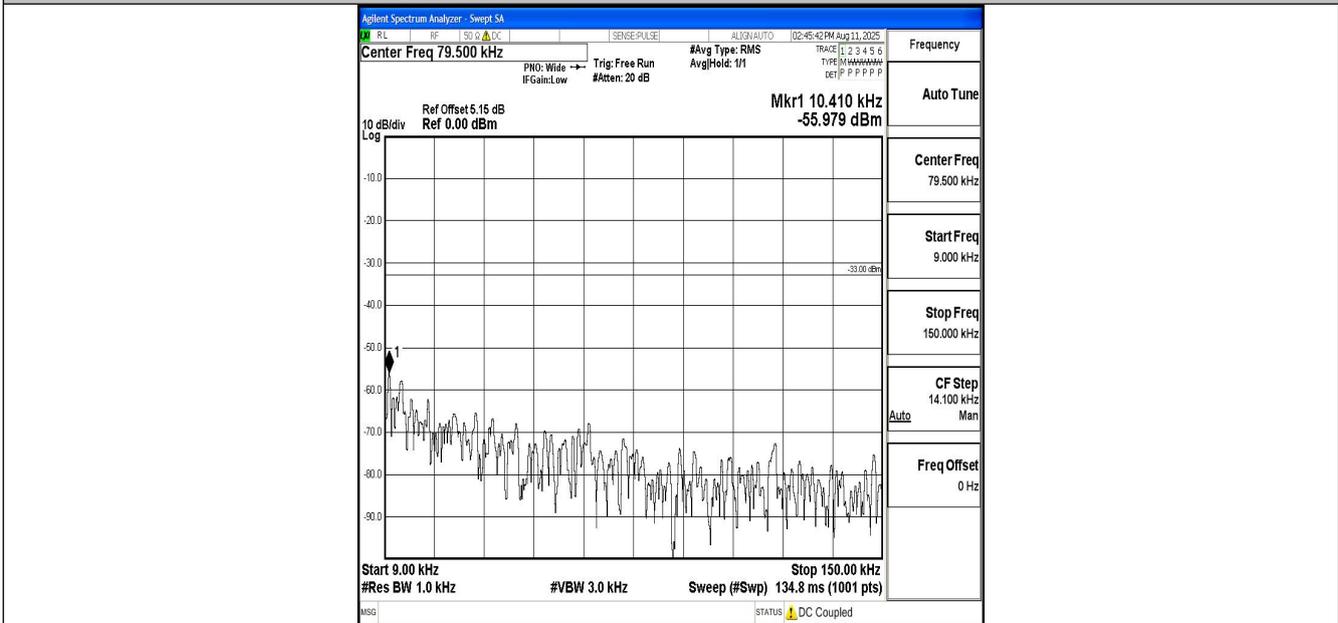
Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000



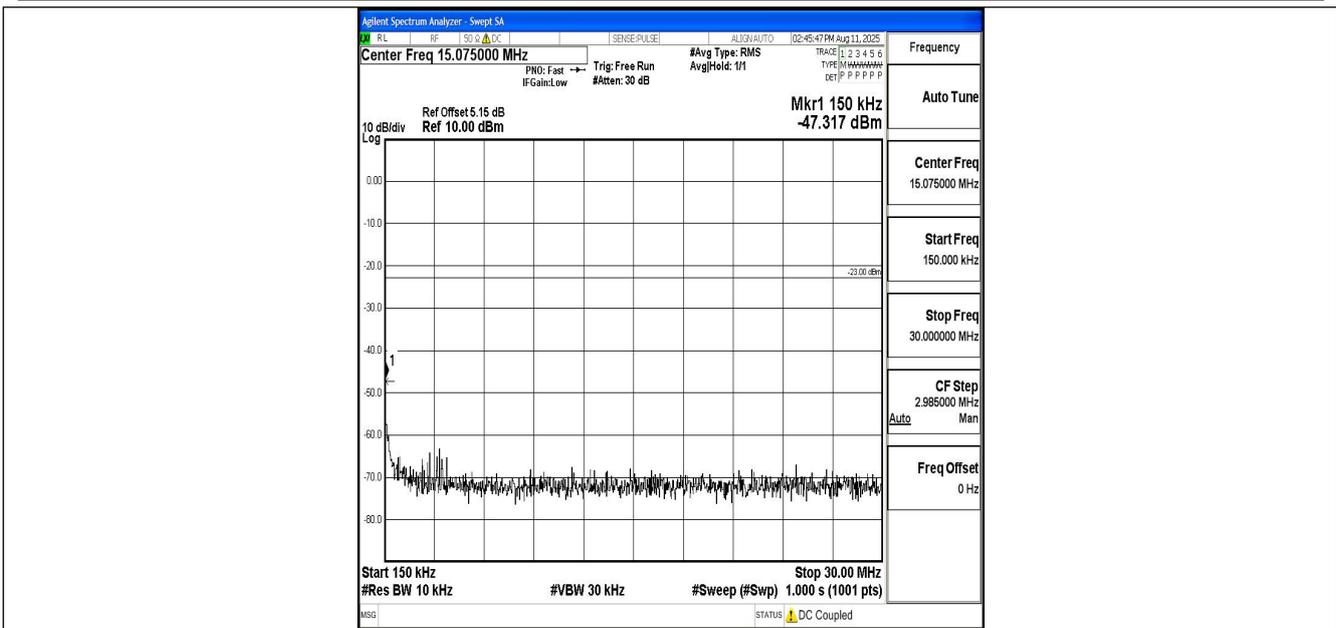
Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000



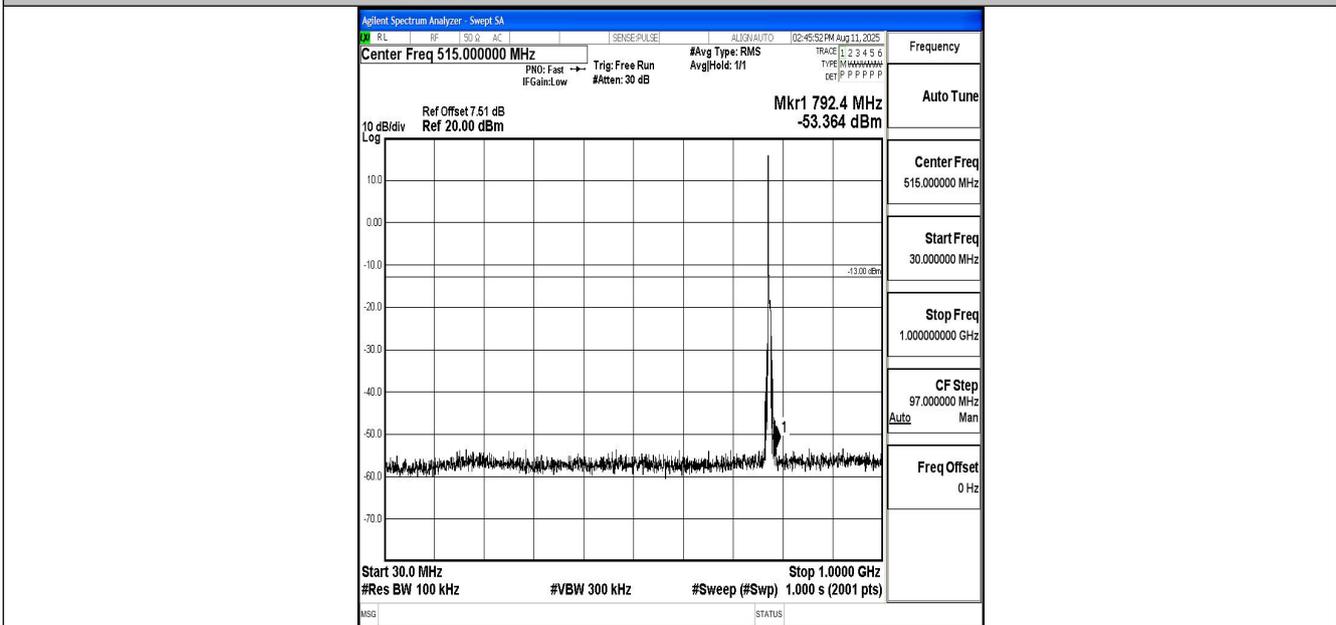
Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000



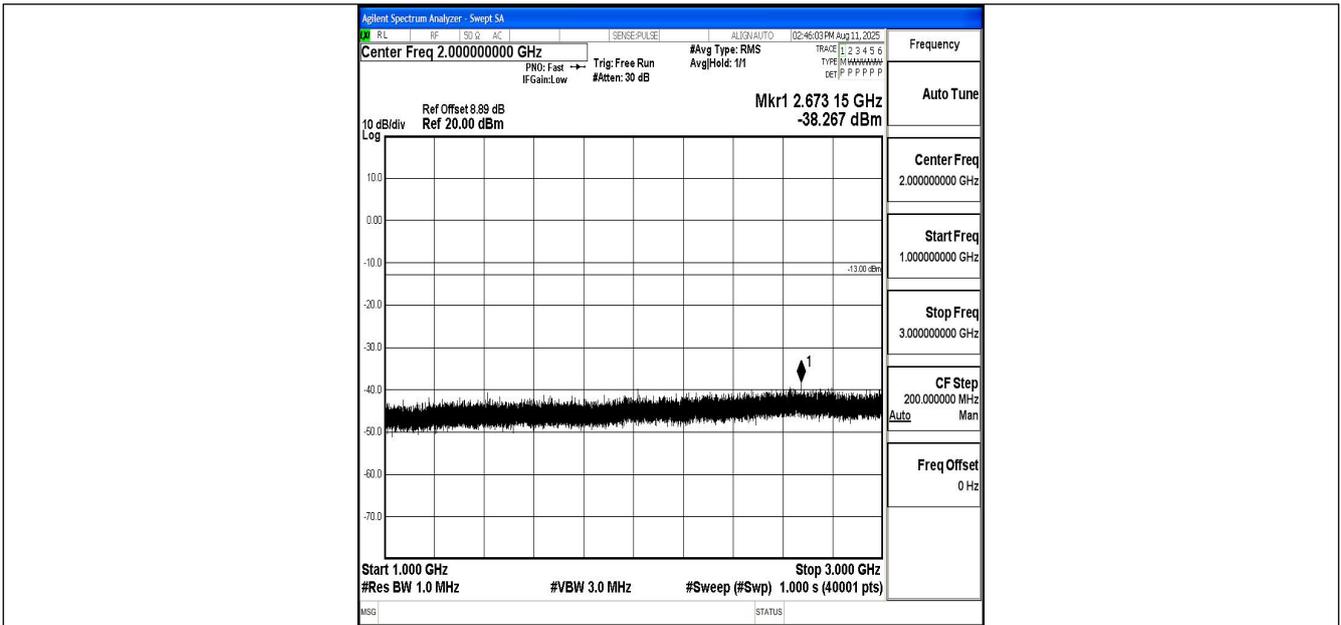
Band13_5MHz_16QAM_23205_1RB#0_0.009~0.15_0.009~0.15



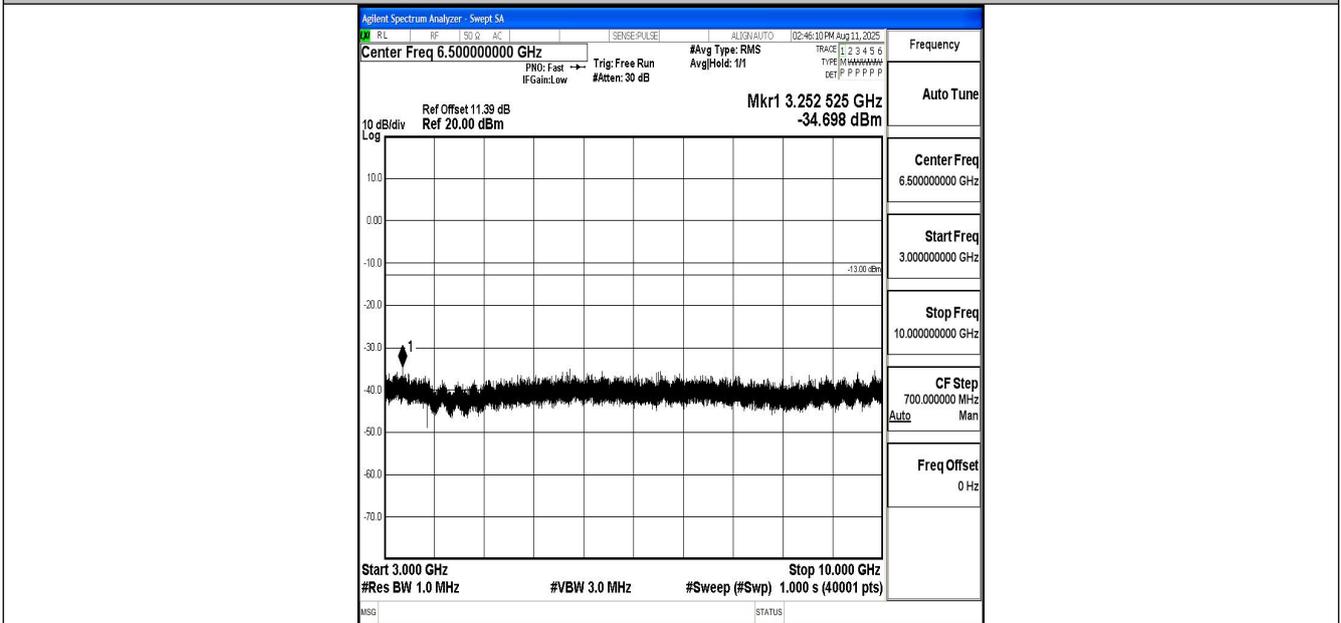
Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~30



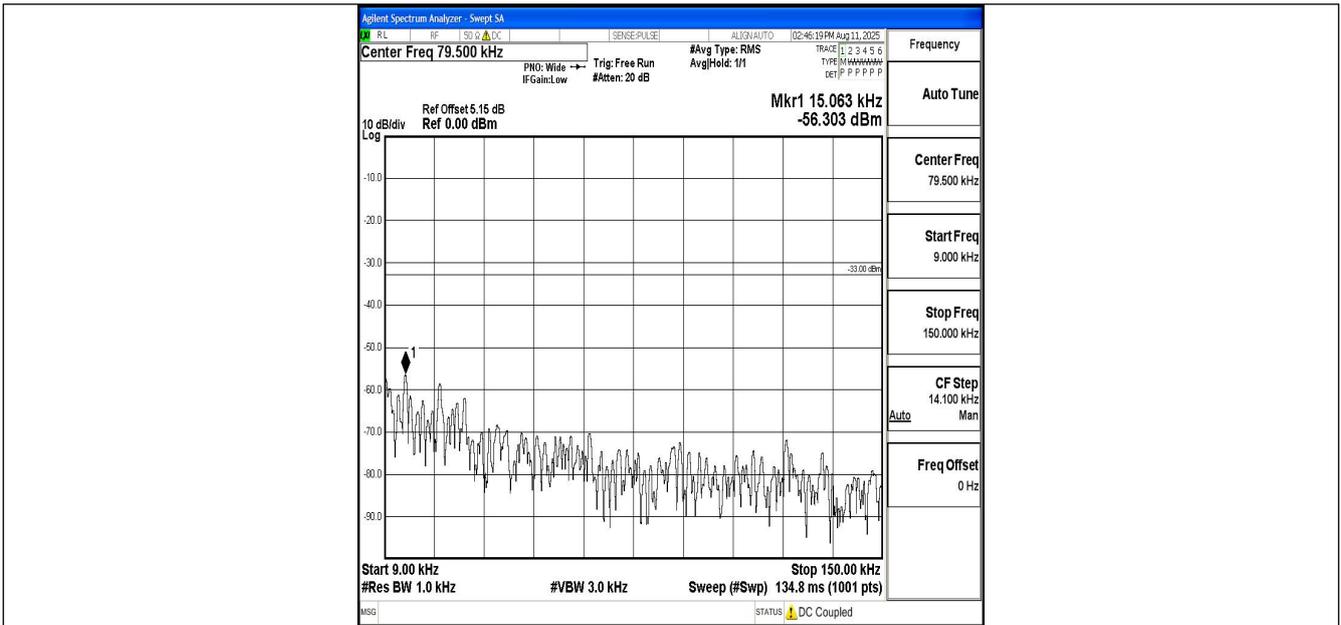
Band13_5MHz_16QAM_23205_1RB#0_30~1000_30~1000



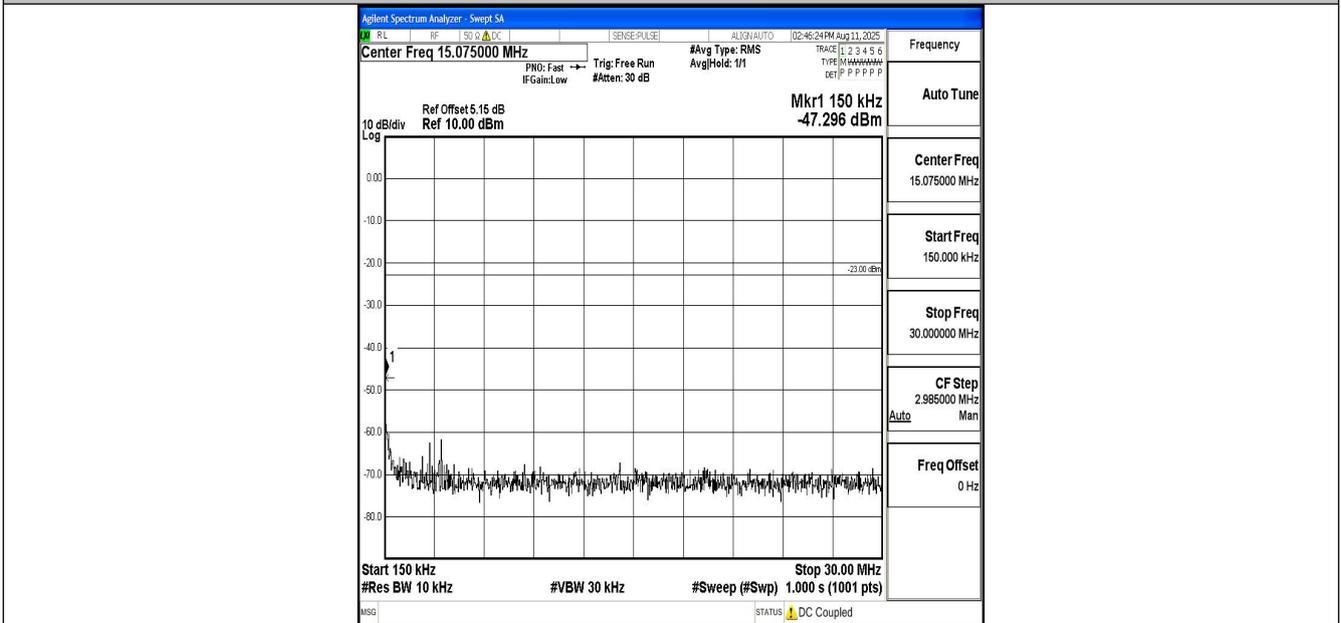
Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000



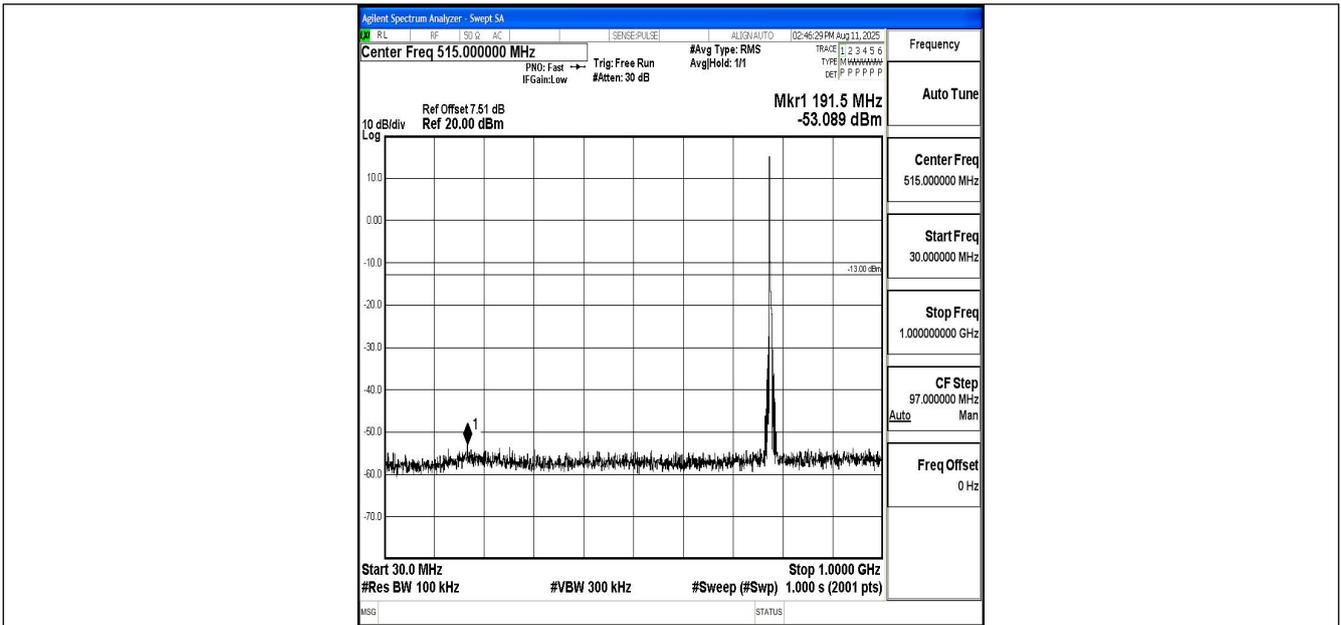
Band13_5MHz_16QAM_23205_1RB#0_3000~10000_3000~10000



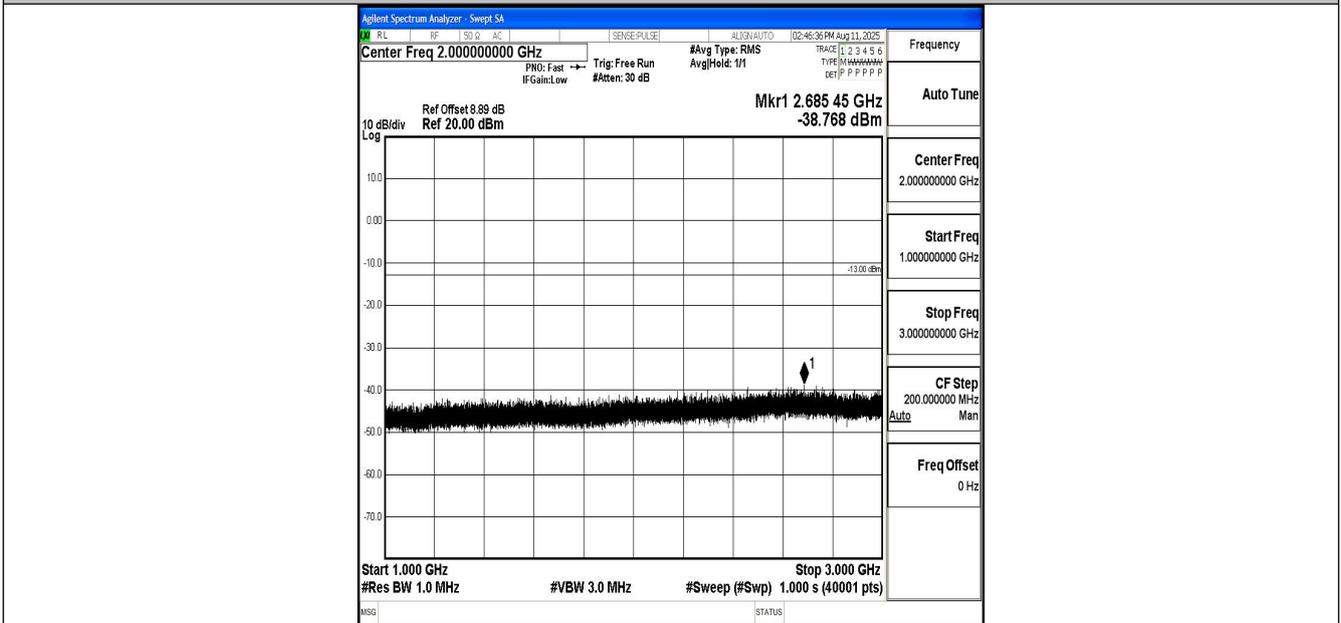
Band13_5MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15



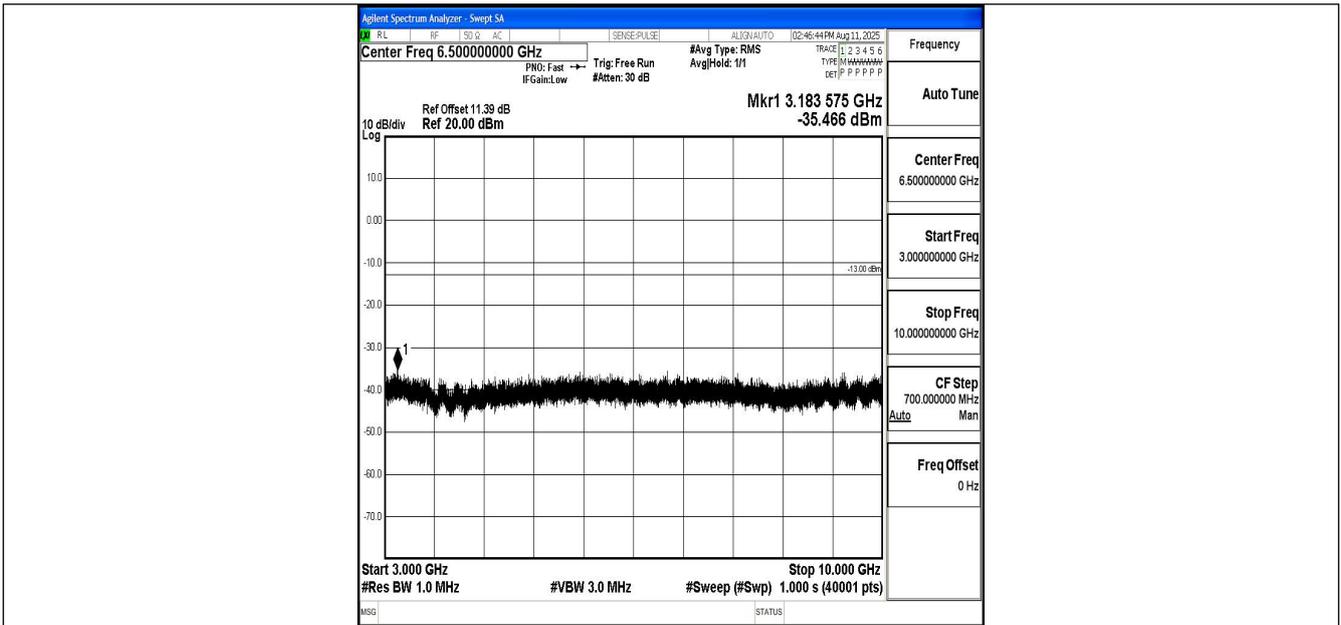
Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



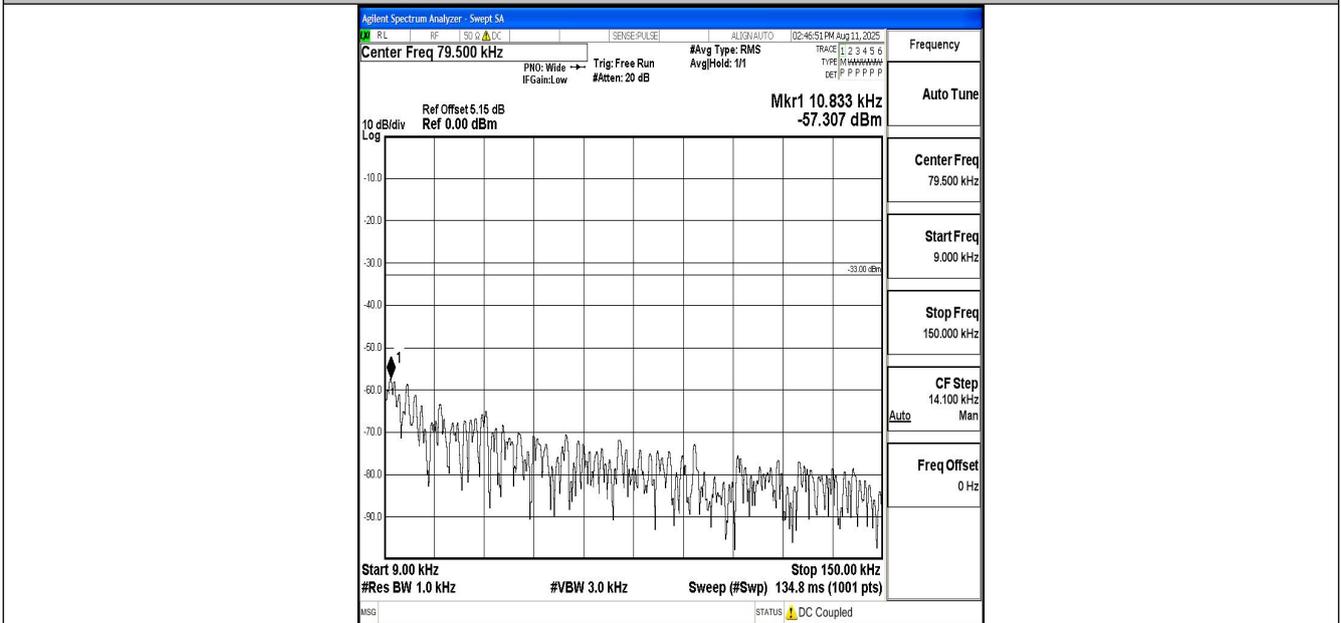
Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000



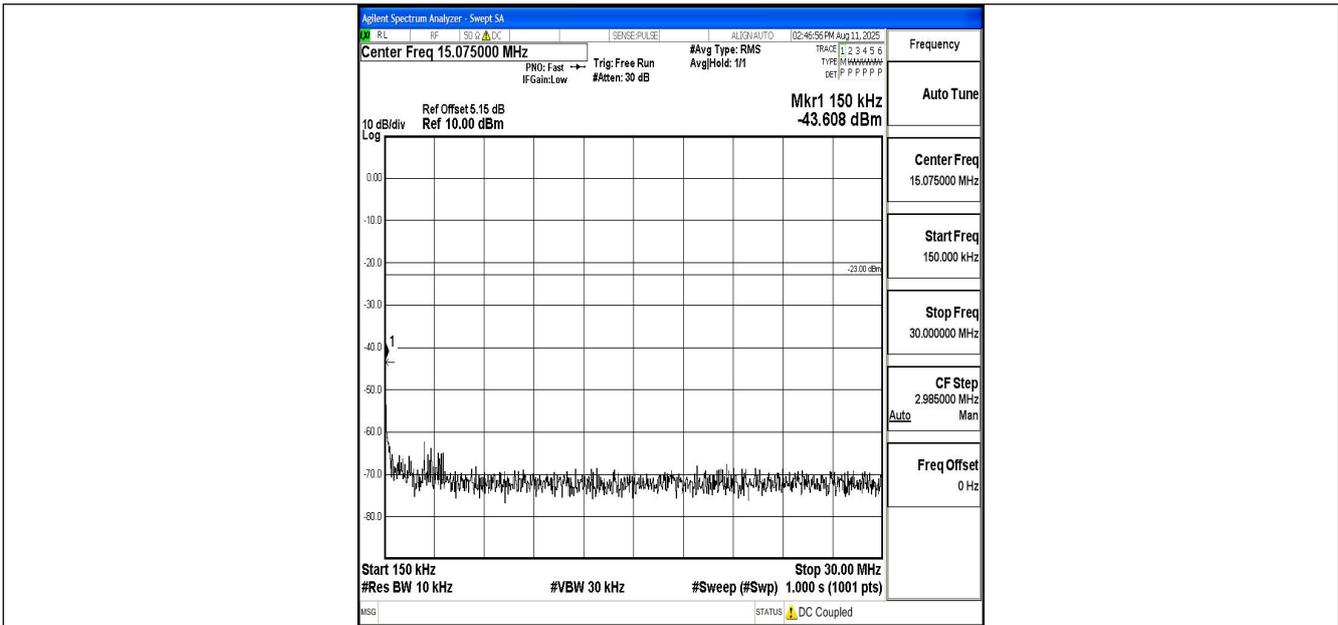
Band13_5MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



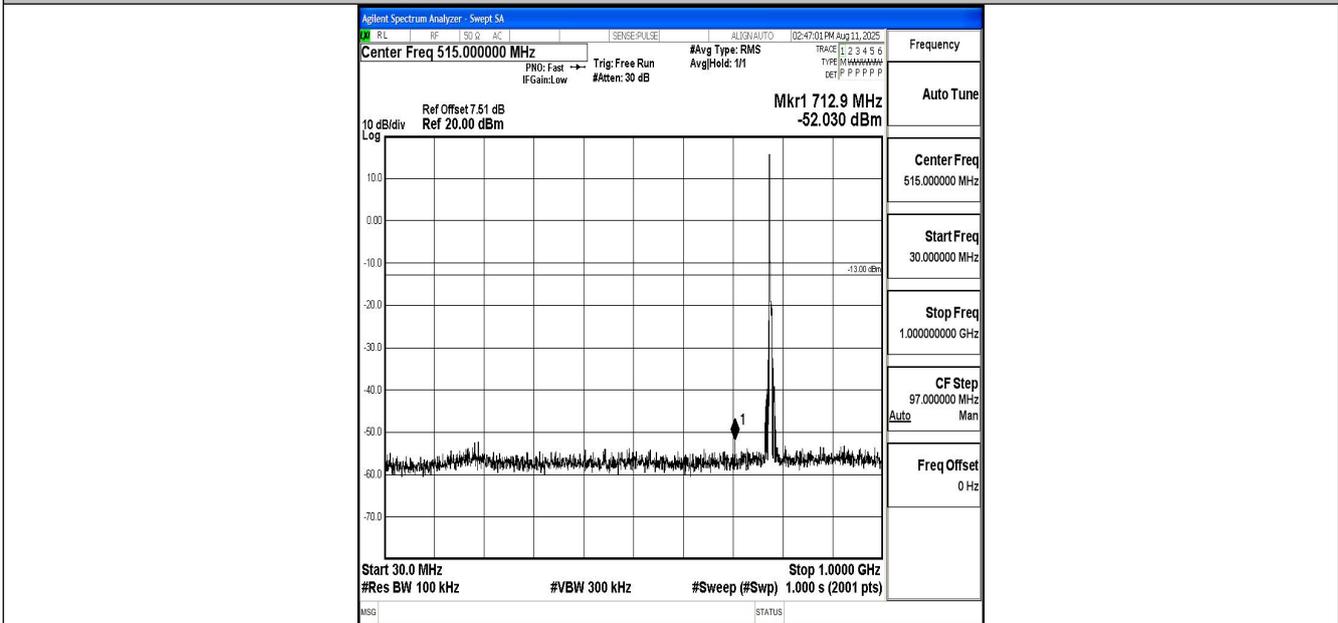
Band13_5MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



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



Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~30



Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000