



Appendix E Test Data for E-UTRA Band 13

Product Name: Wireless Infrared Scouting Camera

Test Model: UML3

Environmental Conditions

Temperature:	22.4° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



E.1 Conducted Average Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.83	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.74	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.70	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.76	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.85	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.67	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.72	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.64	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.11	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.74	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.81	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.90	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.96	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.73	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.75	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.05	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.36	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.06	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.96	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.01	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.07	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.80	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.71	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.90	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.76	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.73	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.67	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.75	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.85	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.92	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.74	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.02	PASS



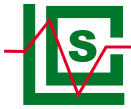
Band13	5MHz	16QAM	23230	12RB#6	20.91	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.94	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.02	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.83	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.04	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.94	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.12	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.11	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.07	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.94	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.97	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.03	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.99	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.95	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.95	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.93	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.00	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.93	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.76	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.81	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.91	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.88	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.84	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.94	PASS



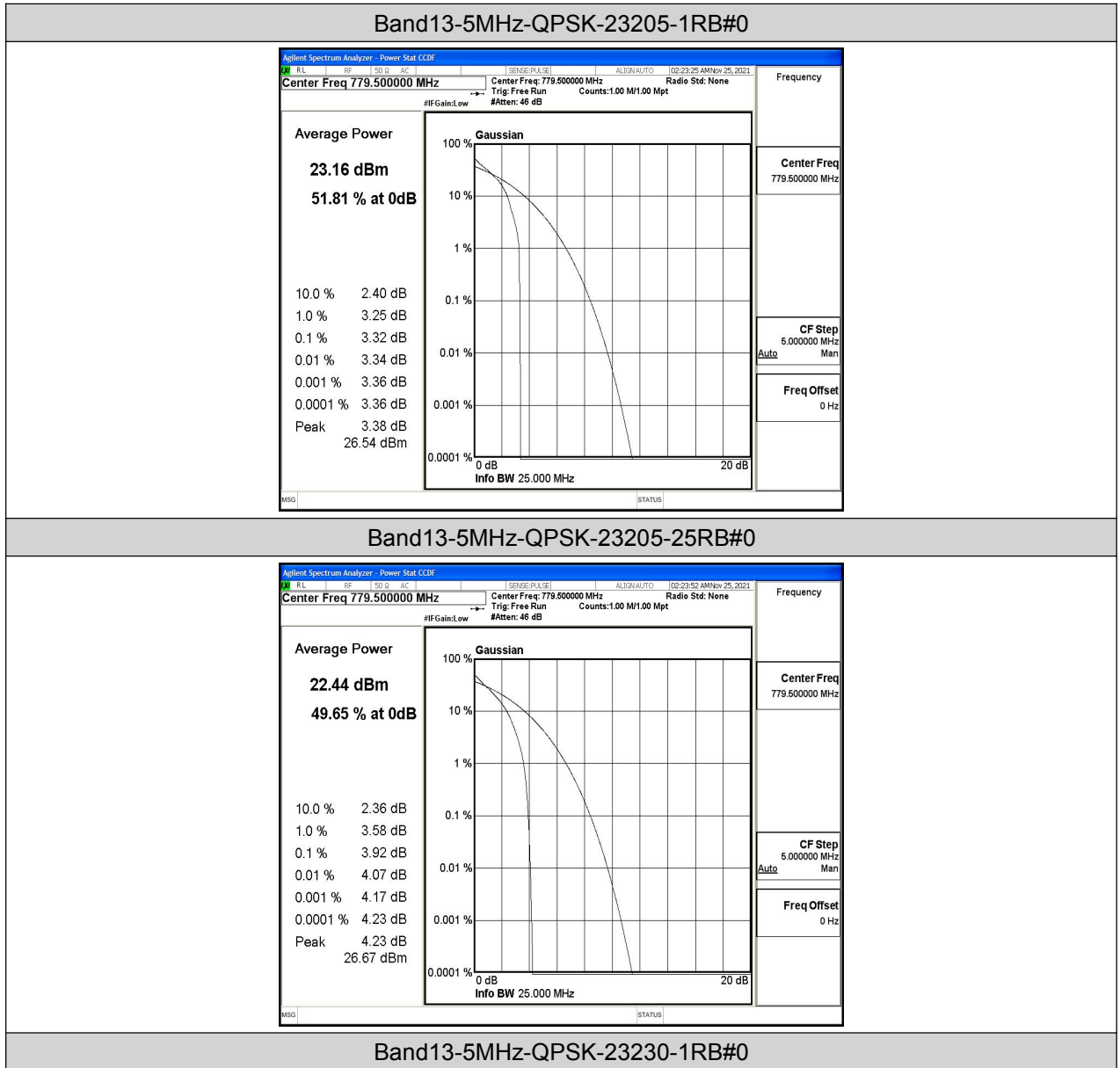
E.2 Peak-to-Average Ratio(CCDF)

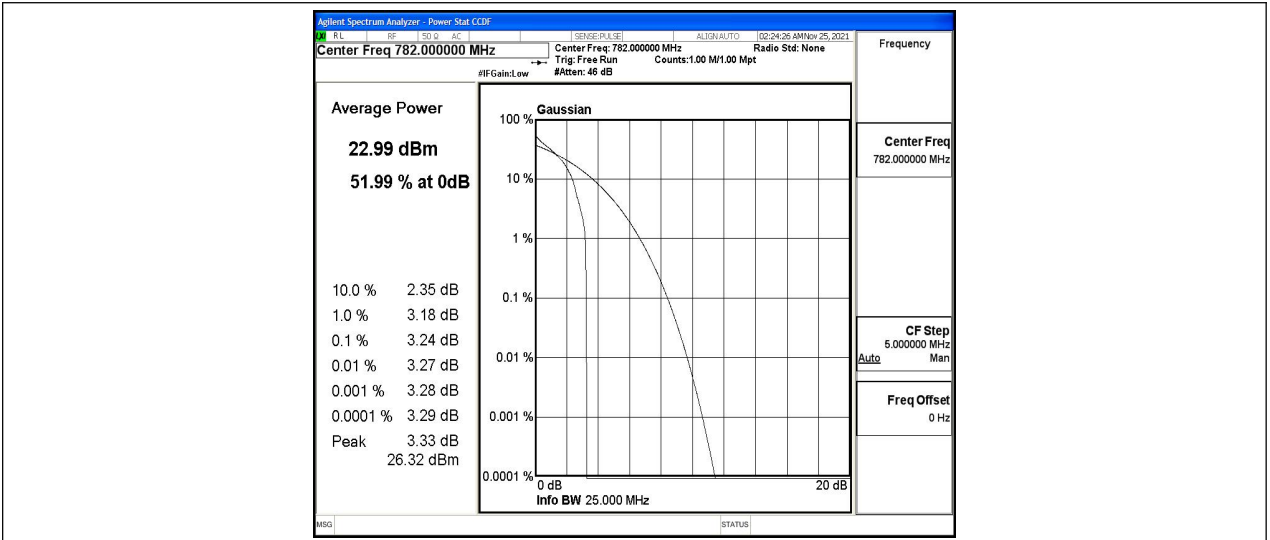
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.32	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	3.92	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	3.24	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.23	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.29	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.47	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.26	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.83	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.24	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.12	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.35	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.41	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.58	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.54	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.28	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.37	13	PASS

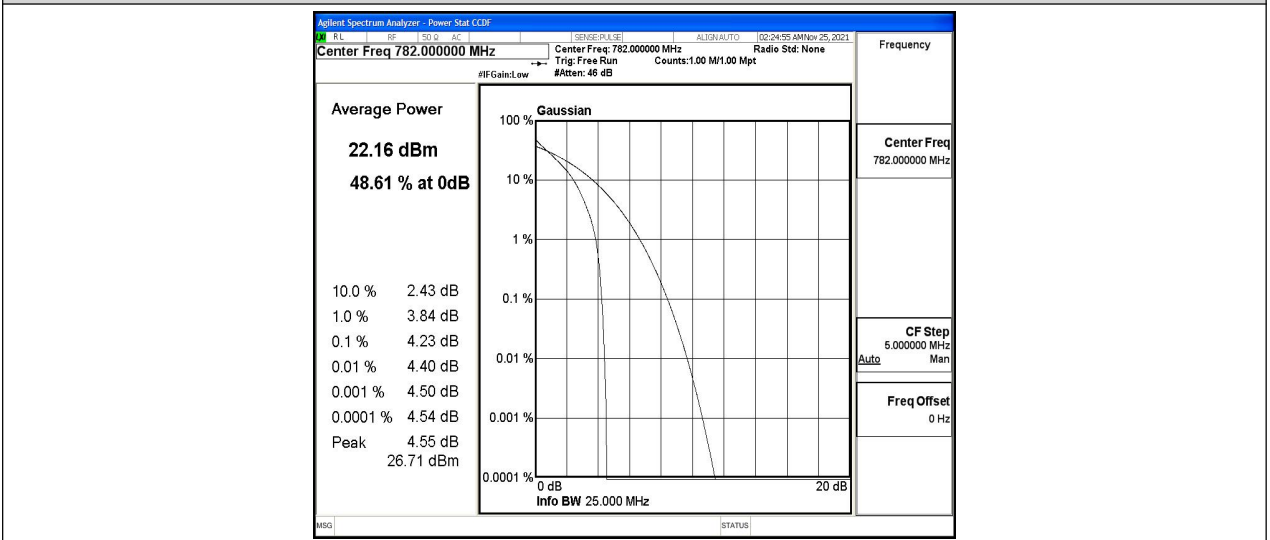


Test Graphs

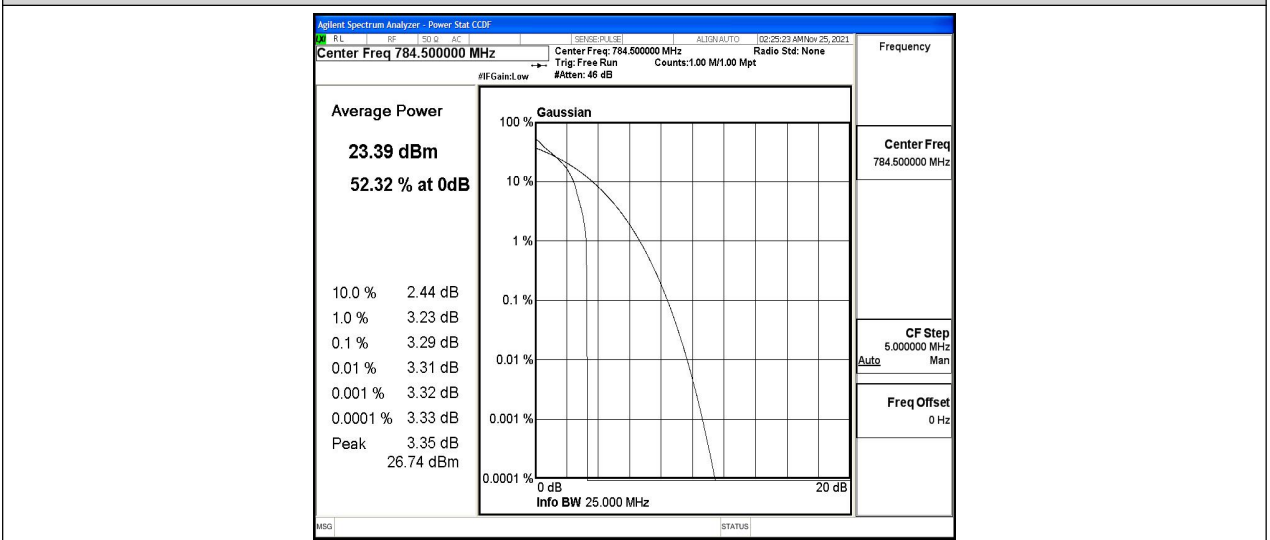




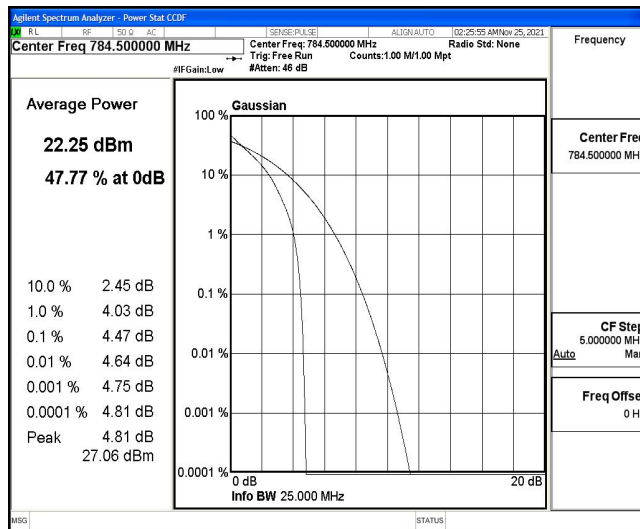
Band13-5MHz-QPSK-23230-25RB#0



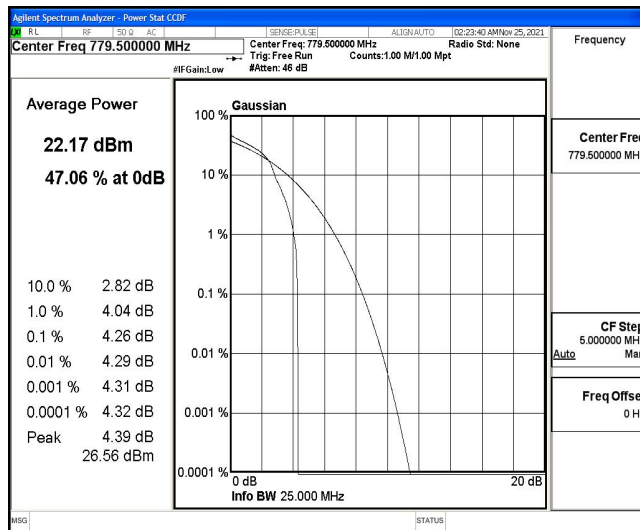
Band13-5MHz-QPSK-23255-1RB#0



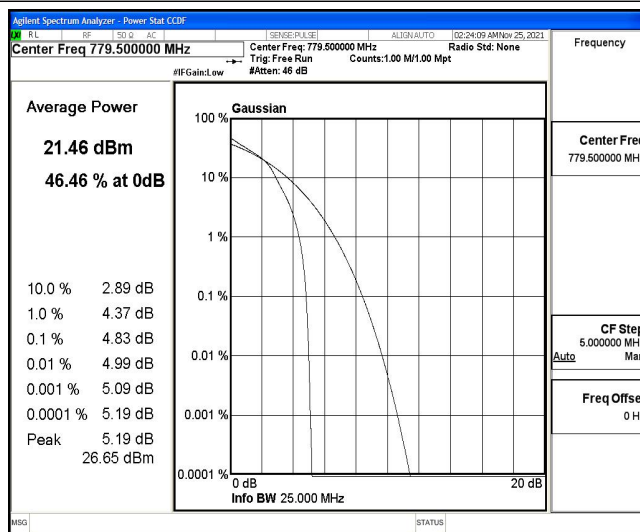
Band13-5MHz-QPSK-23255-25RB#0



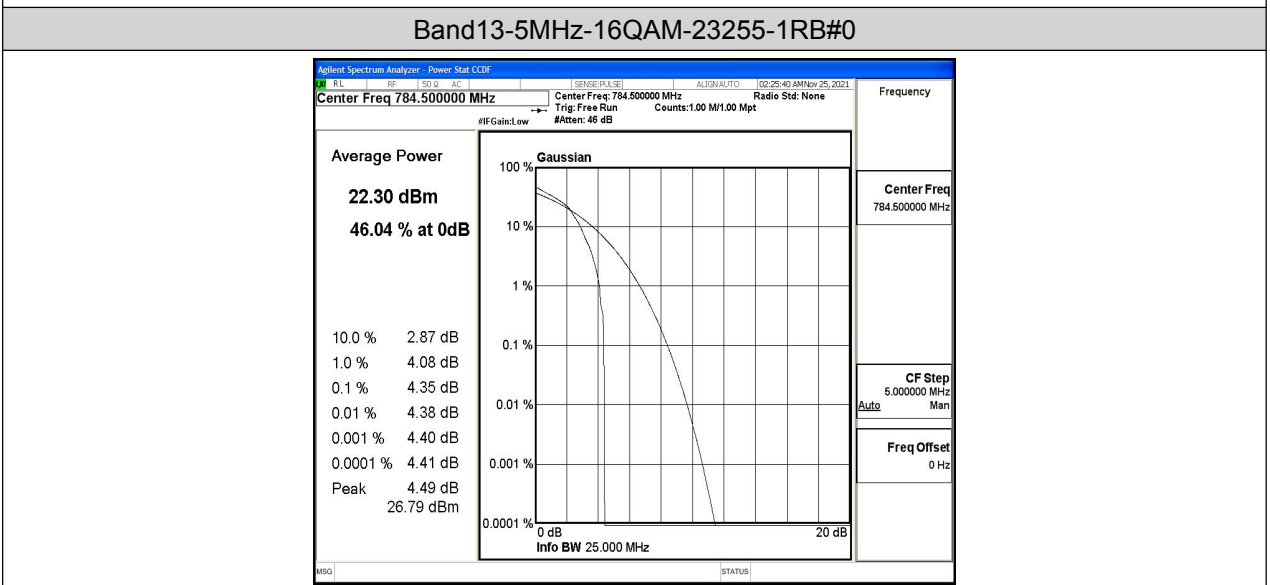
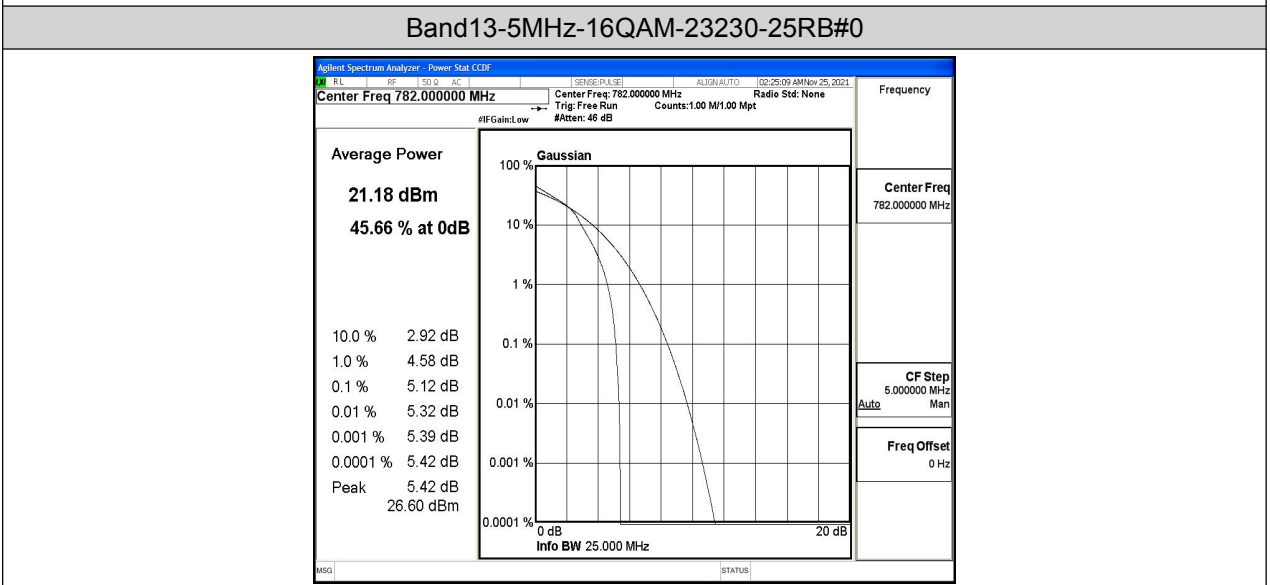
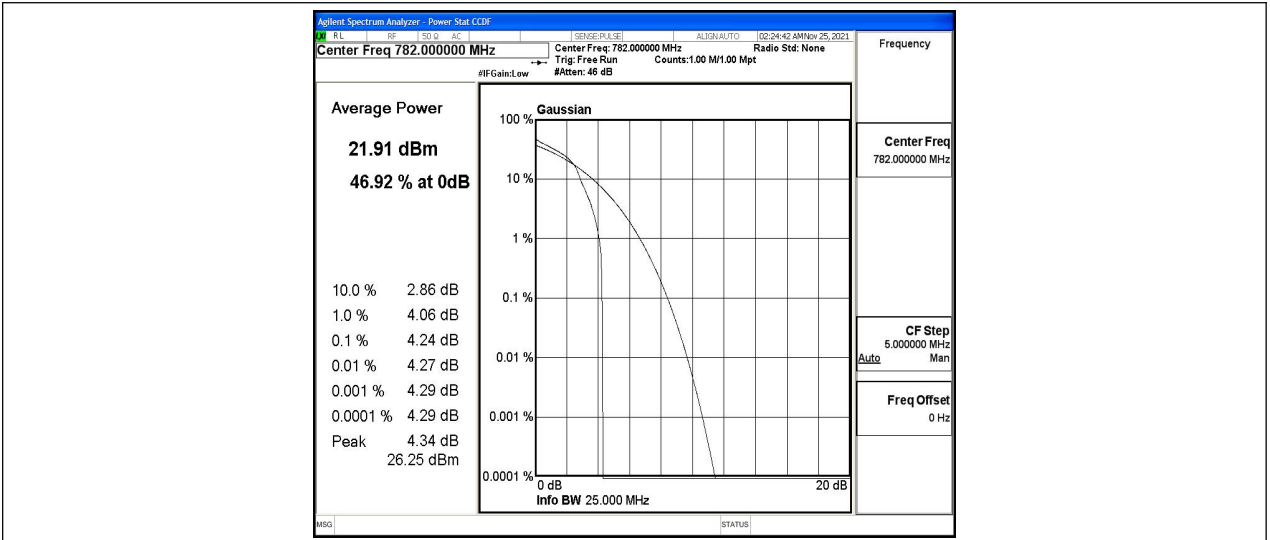
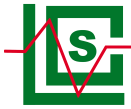
Band13-5MHz-16QAM-23205-1RB#0

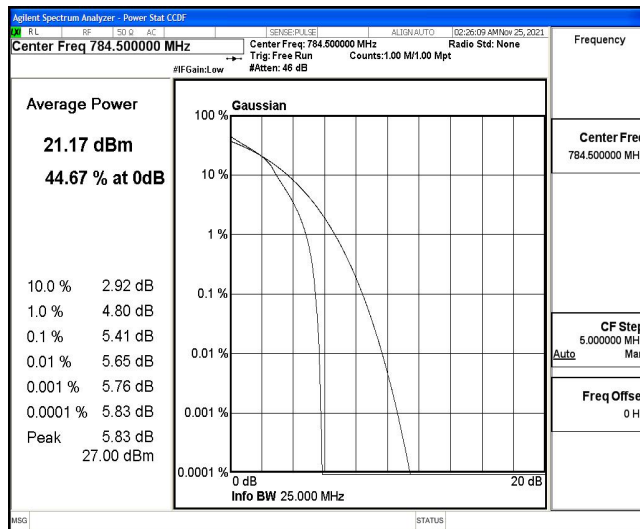


Band13-5MHz-16QAM-23205-25RB#0

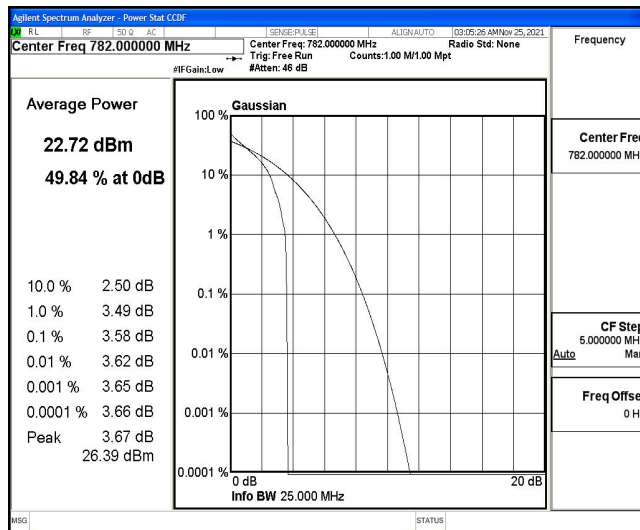


Band13-5MHz-16QAM-23230-1RB#0

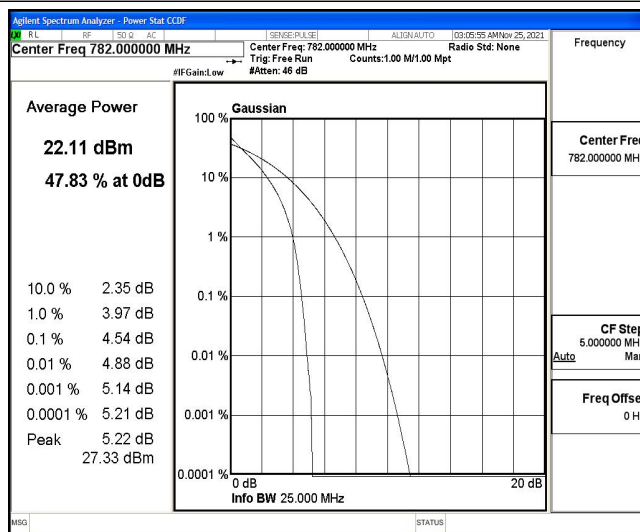




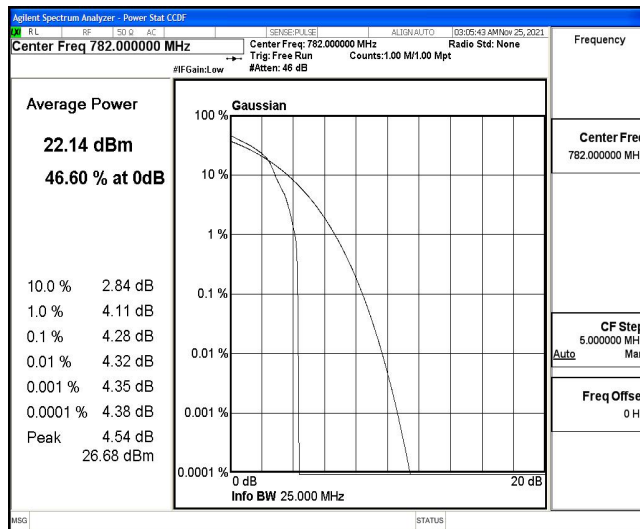
Band13-10MHz-QPSK-23230-1RB#0



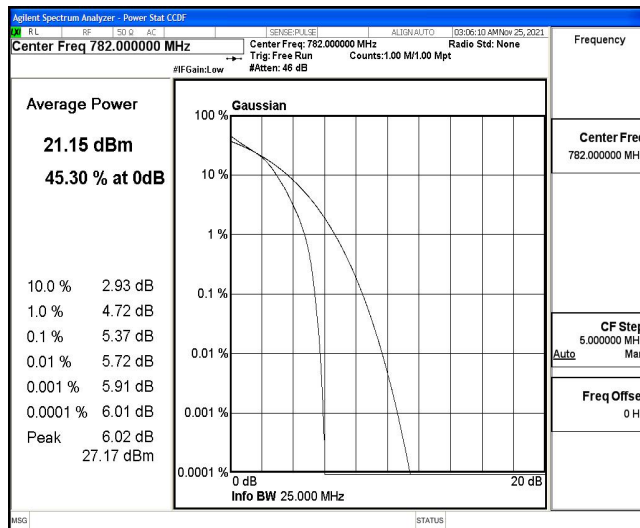
Band13-10MHz-QPSK-23230-50RB#0



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



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

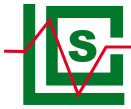




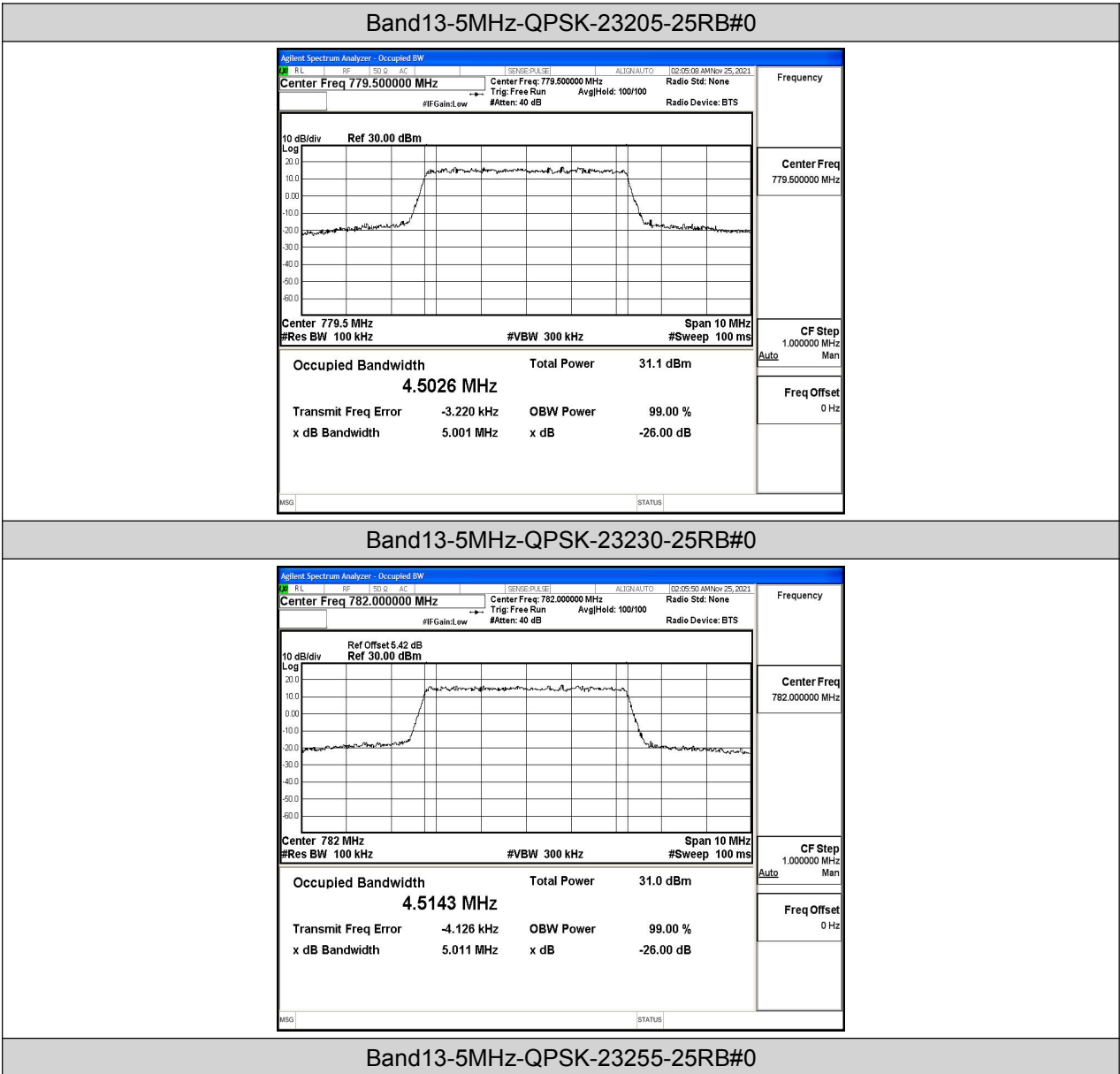
E.3 26dB Bandwidth and Occupied Bandwidth

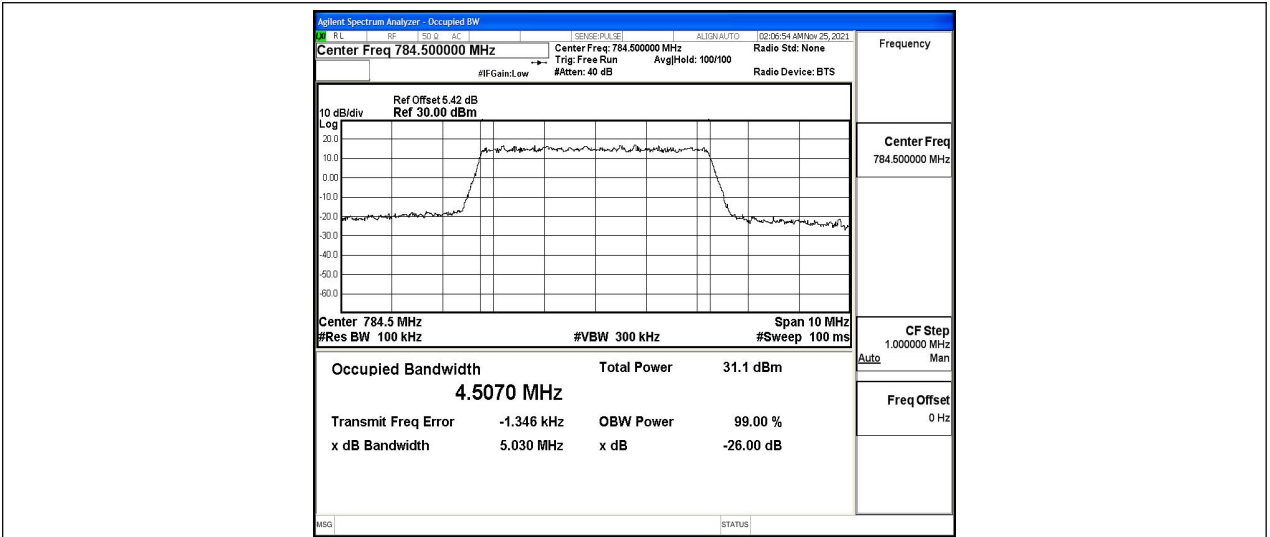
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5026	5.001	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5143	5.011	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5070	5.030	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5033	4.981	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5047	5.008	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5088	4.976	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9706	9.911	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9500	9.812	PASS

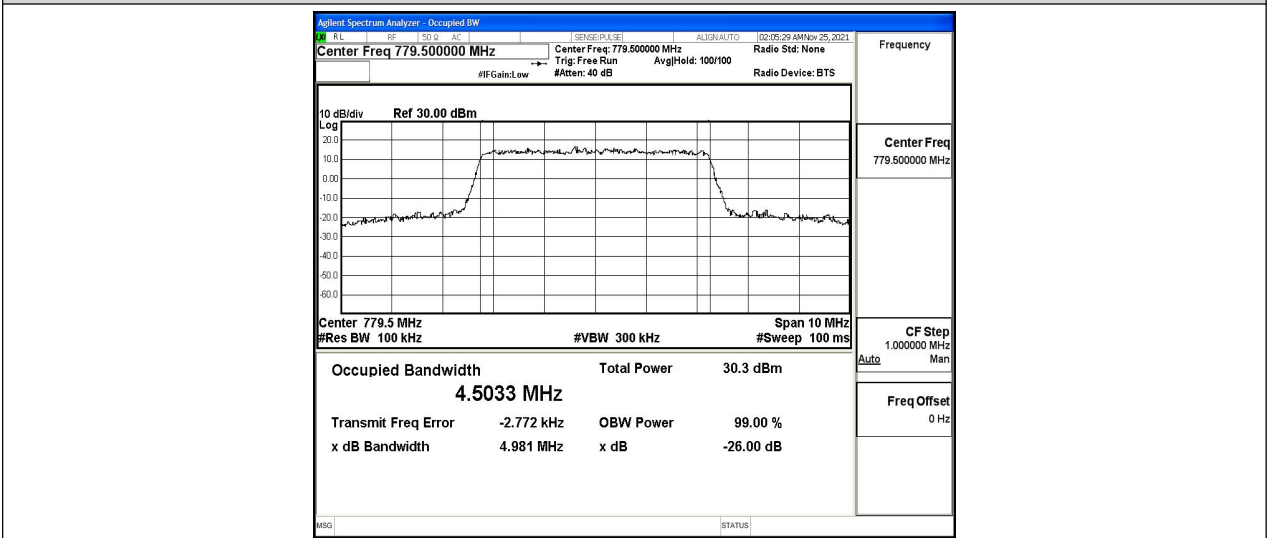


Test Graphs

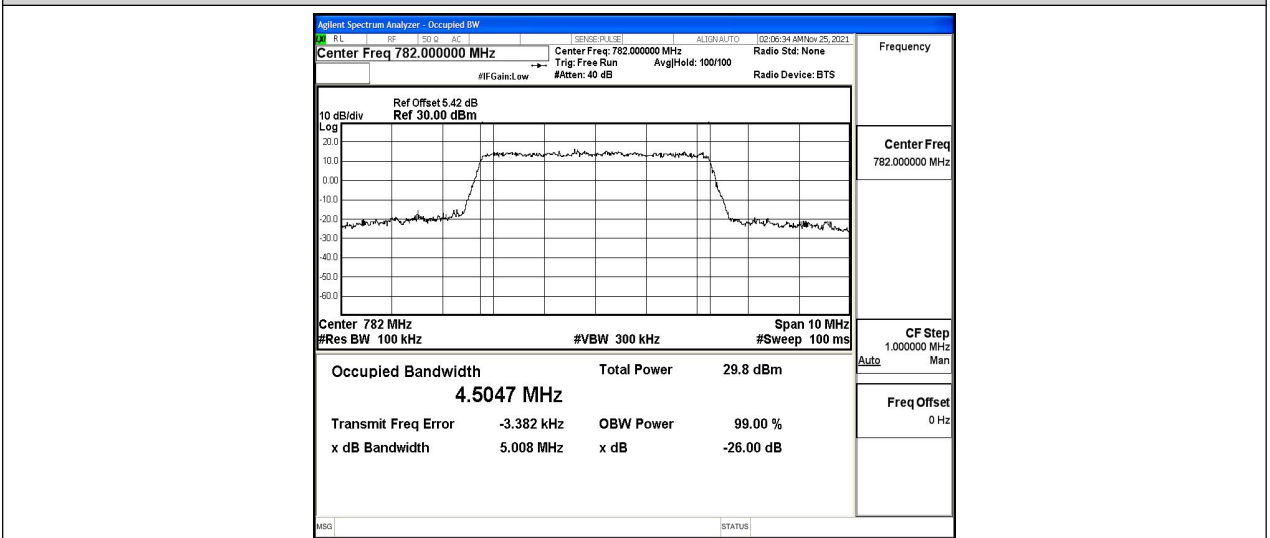




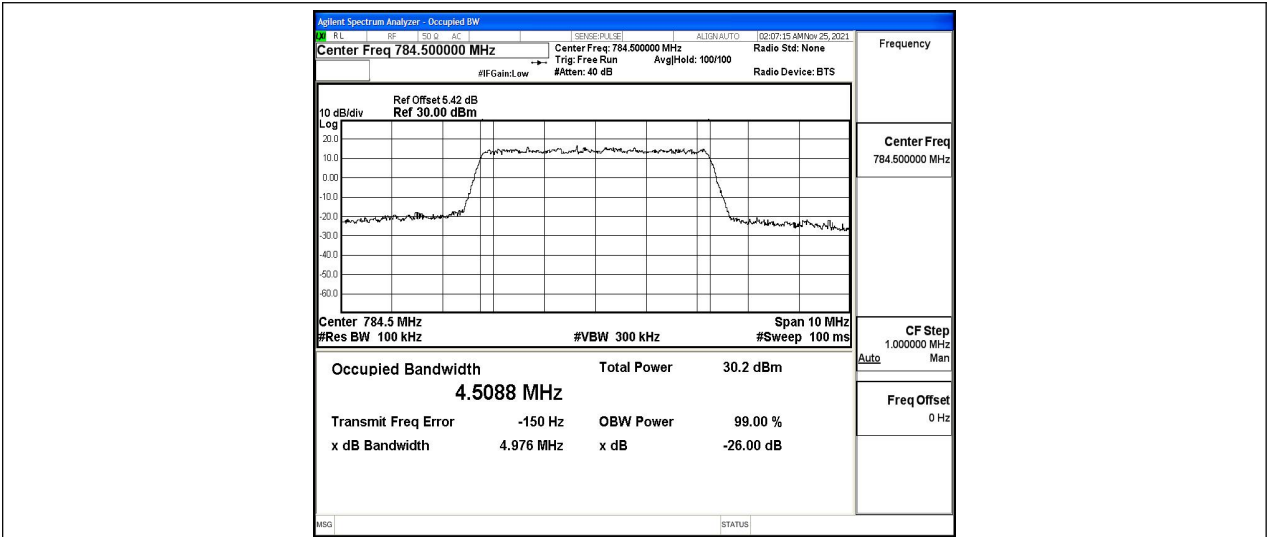
Band13-5MHz-16QAM-23205-25RB#0



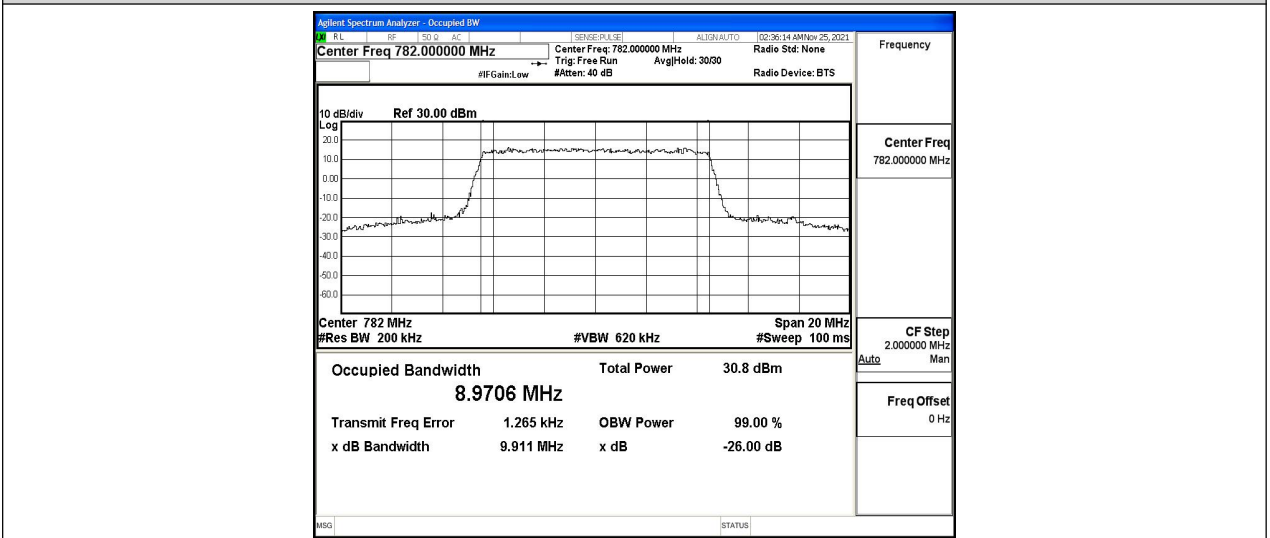
Band13-5MHz-16QAM-23230-25RB#0



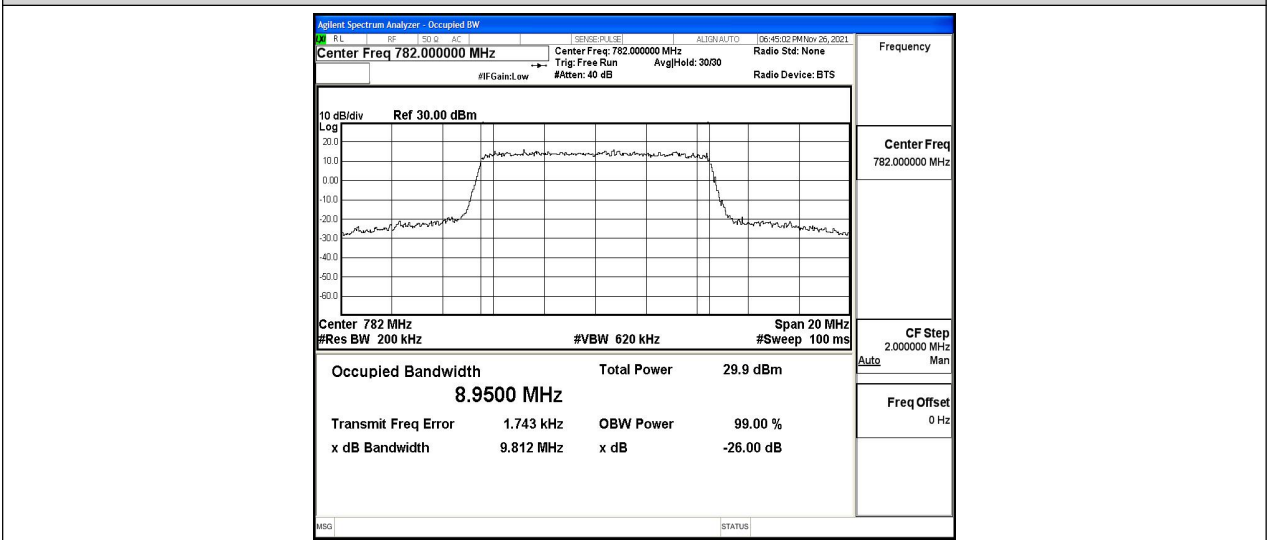
Band13-5MHz-16QAM-23255-25RB#0

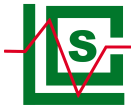


Band13-10MHz-QPSK-23230-50RB#0



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



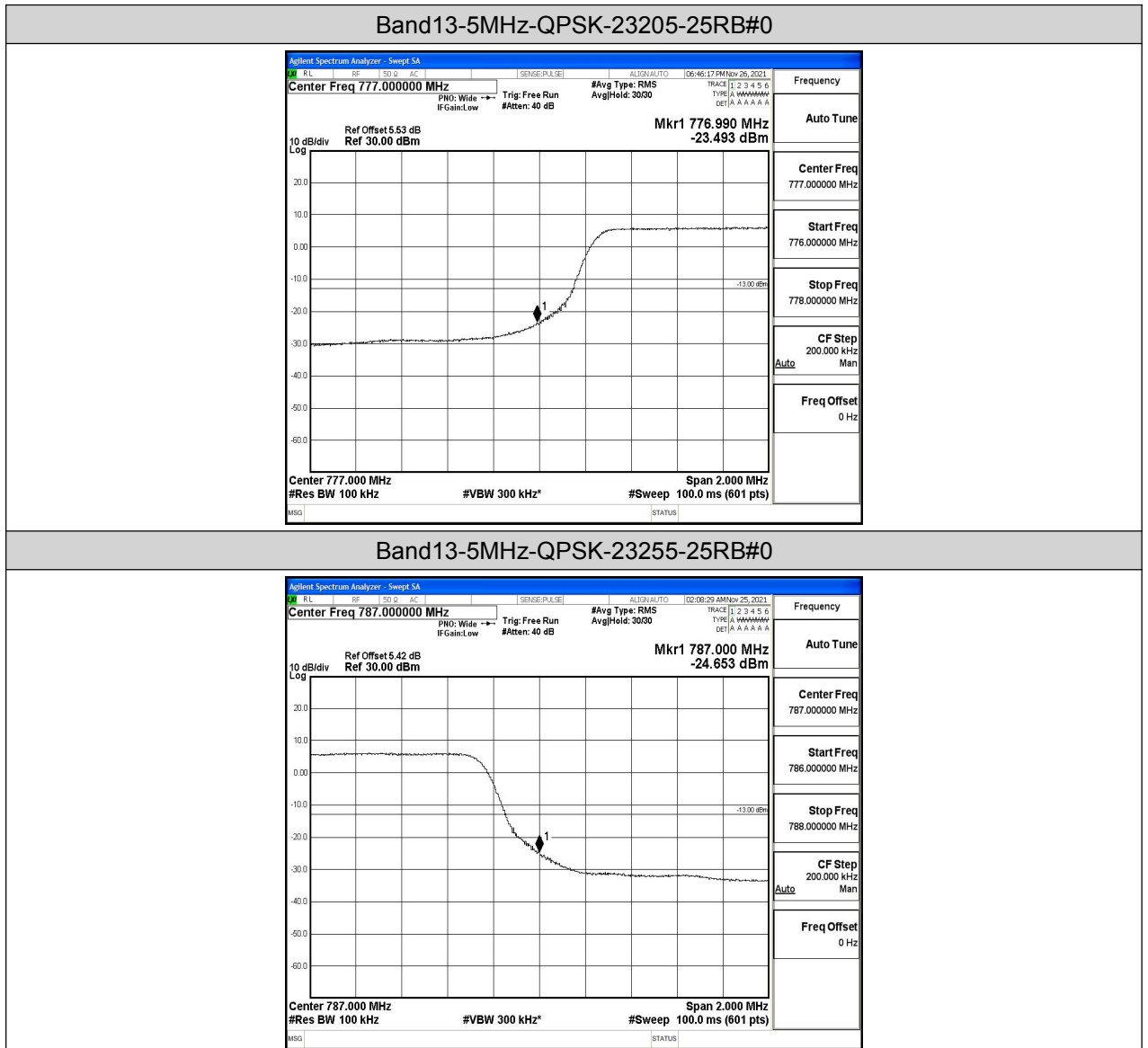


E.4 Band Edge

Test Result

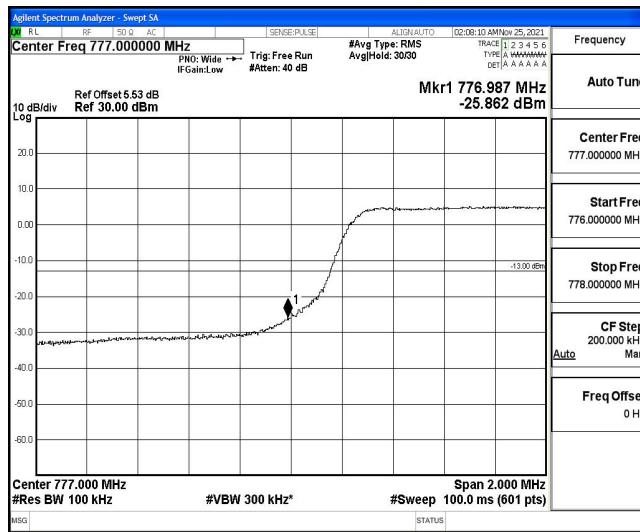
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-23.49	PASS
Band13	5MHz	QPSK	23255	25RB#0	-24.65	PASS
Band13	5MHz	16QAM	23205	25RB#0	-25.86	PASS
Band13	5MHz	16QAM	23255	25RB#0	-26.39	PASS
Band13	10MHz	QPSK	23230	50RB#0	-25.73,-26.99	PASS
Band13	10MHz	16QAM	23230	50RB#0	-28.27,-28.72	PASS

Test Graphs

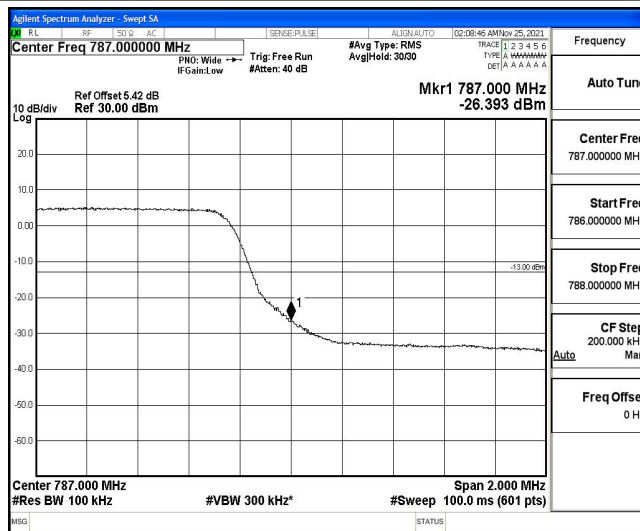




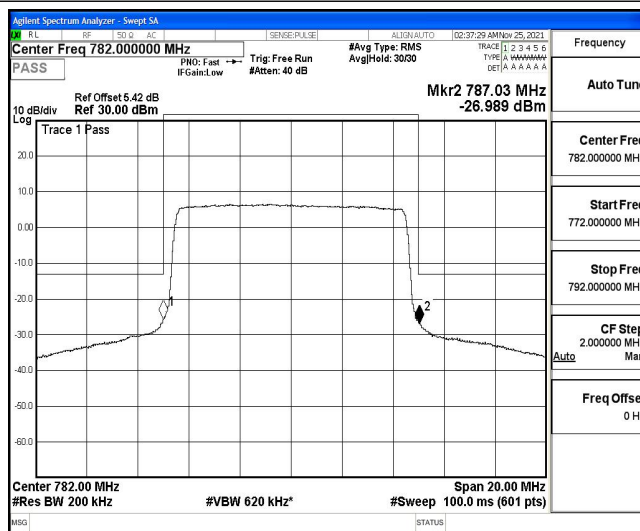
Band13-5MHz-16QAM-23205-25RB#0



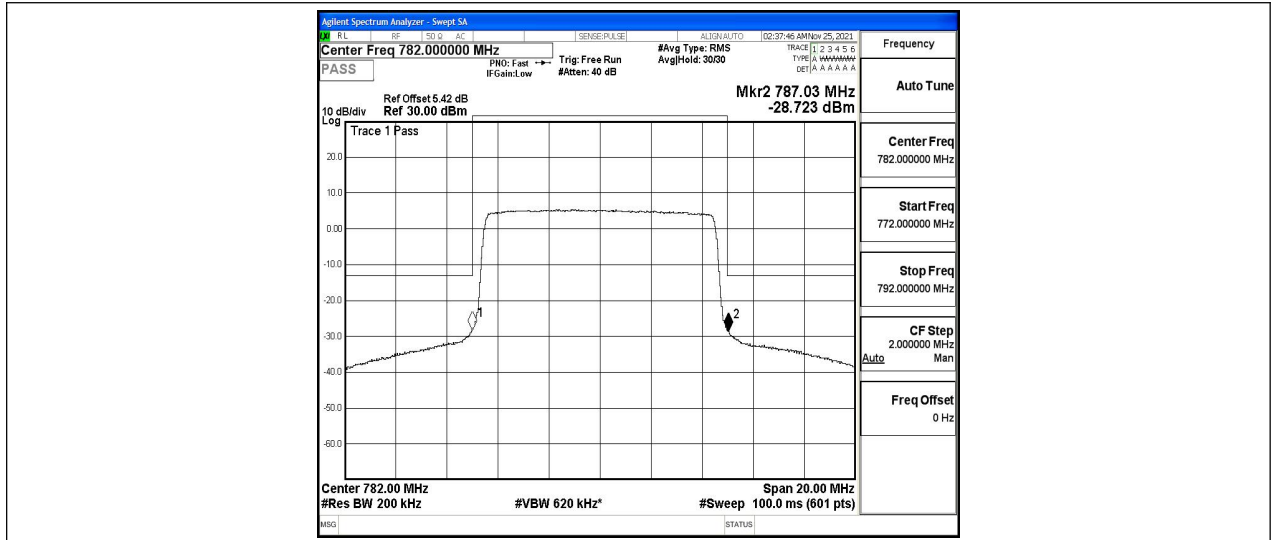
Band13-5MHz-16QAM-23255-25RB#0



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



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

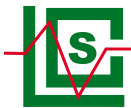




E.5 Conducted Spurious Emission

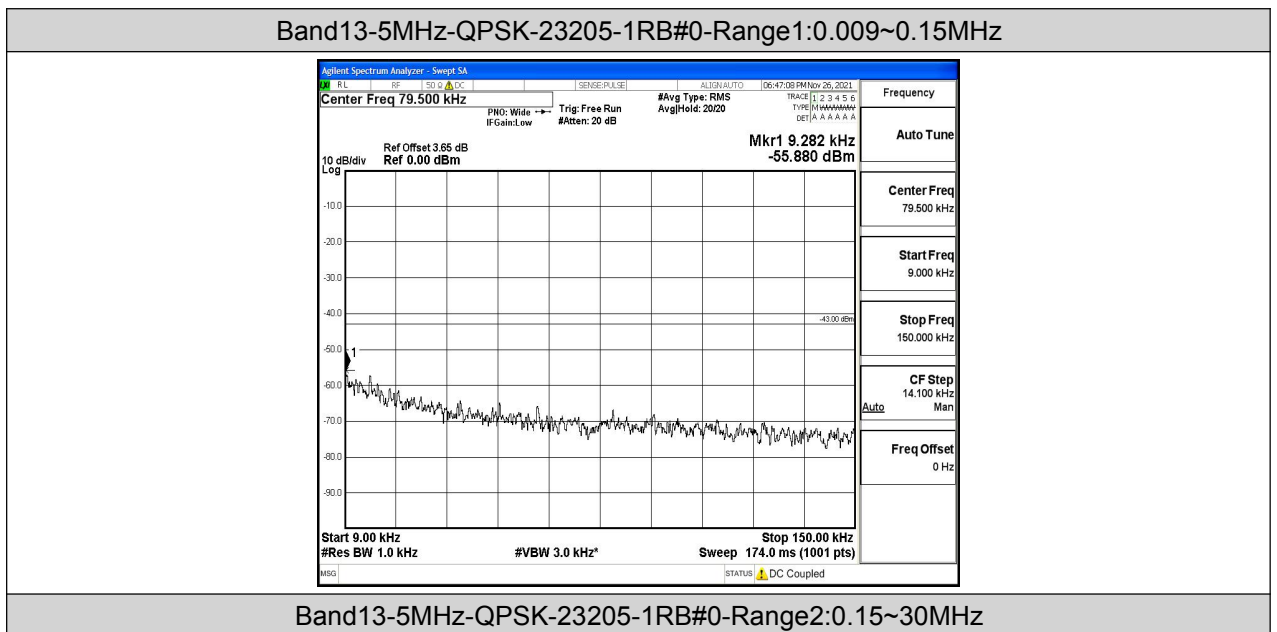
Test Result

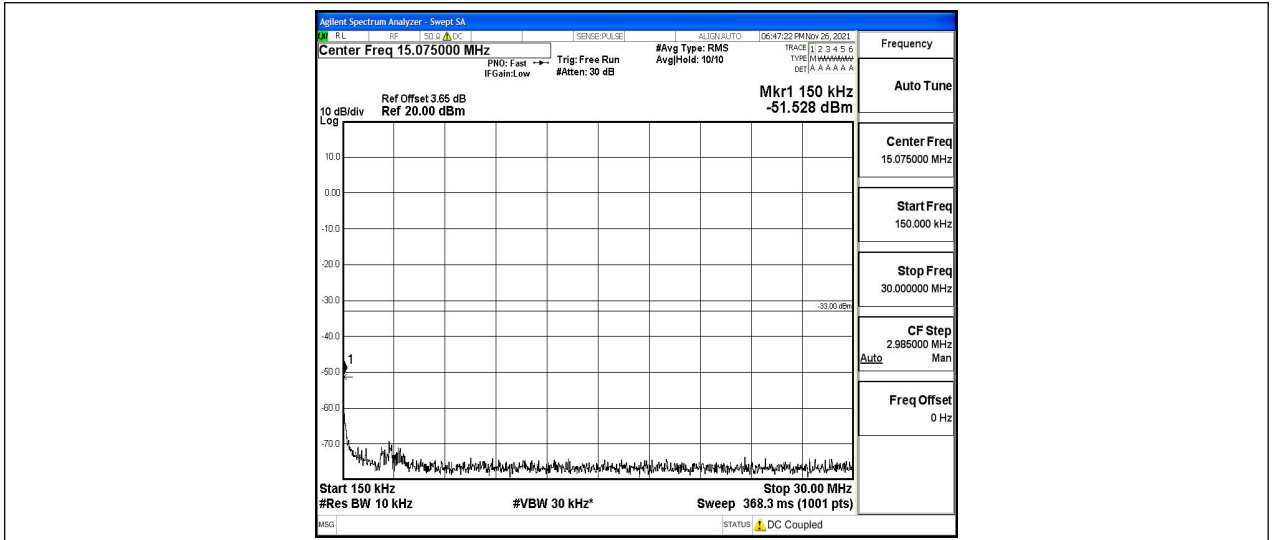
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	-55.88	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	-51.53	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	-41.95	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:763~775MHz	-50.63	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range6:793~805MHz	-60.87	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	-45.34	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range7:1559~1610MHz	-62.63	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-55.87	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-50.99	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-41.4	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-58.33	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-61.01	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-45.45	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-64.68	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	-56.26	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	-53.04	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	-41.88	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:763~775MHz	-58.11	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range6:793~805MHz	-60.99	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	-45.44	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range7:1559~1610MHz	-64.49	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	-55.68	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	-52.78	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	-41.42	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:763~775MHz	-57.25	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range6:793~805MHz	-61.39	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	-45.41	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range7:1559~1610MHz	-63	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-55.05	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-51.68	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-41.92	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-60.02	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-60.74	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-45.29	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-64.64	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	-55.48	PASS



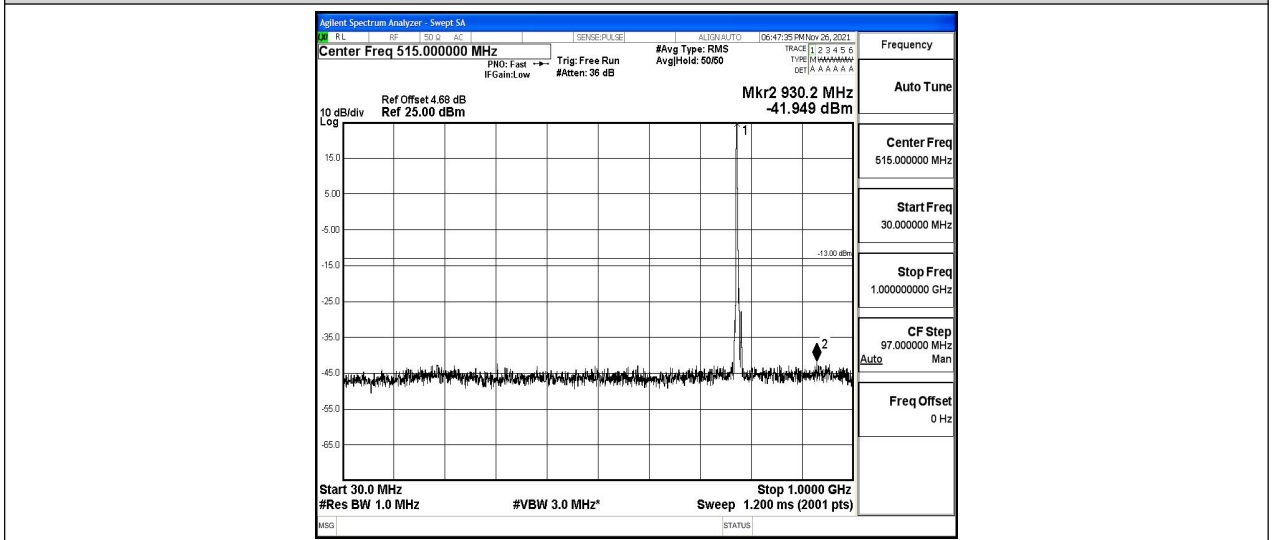
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	-50.3	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	-41.94	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	-57.55	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	-60.49	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	-45.32	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range7:1559~1610MHz	-64.45	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-54.2	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-50.75	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-42.63	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-51.97	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-56.17	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-45.43	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-63.04	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-56.57	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-52.19	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-41.22	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-59.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-61.63	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-45.44	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-63.05	PASS

Test Graphs

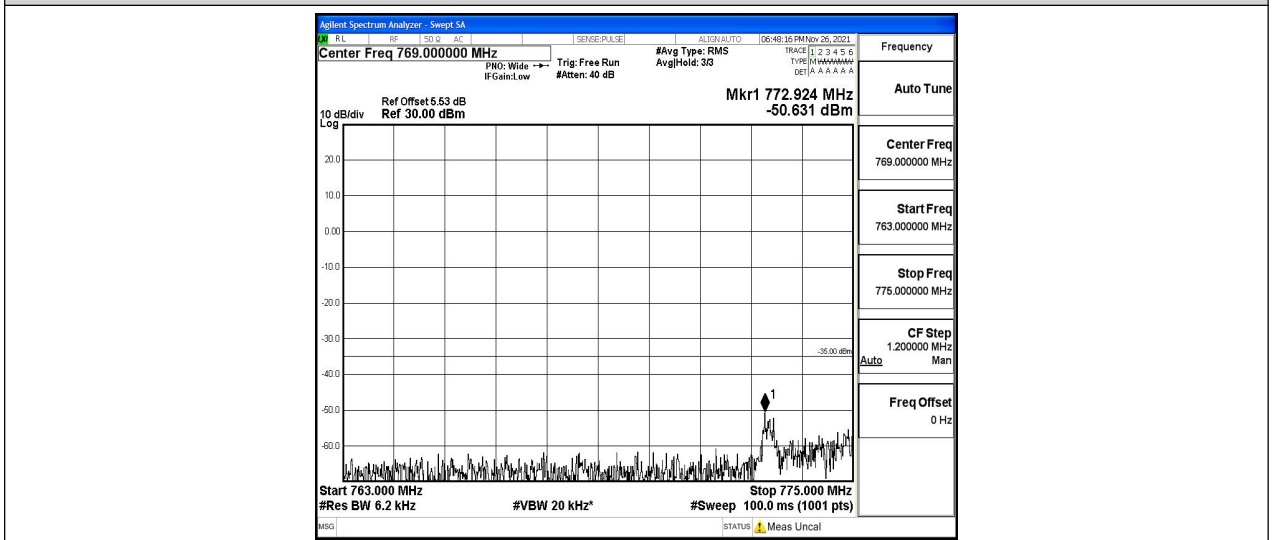




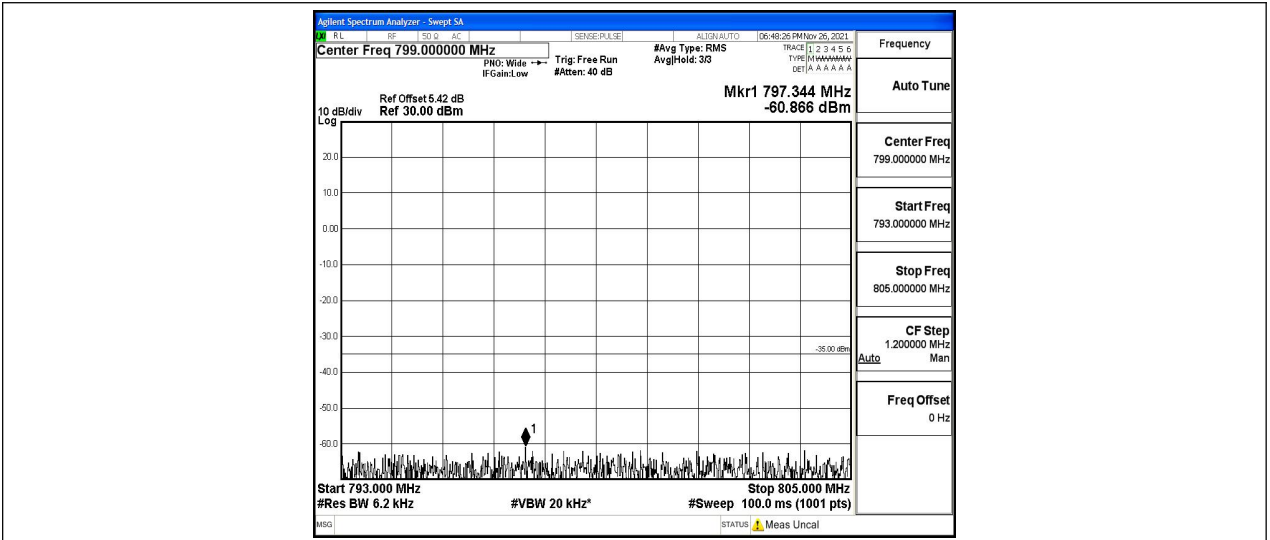
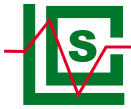
Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



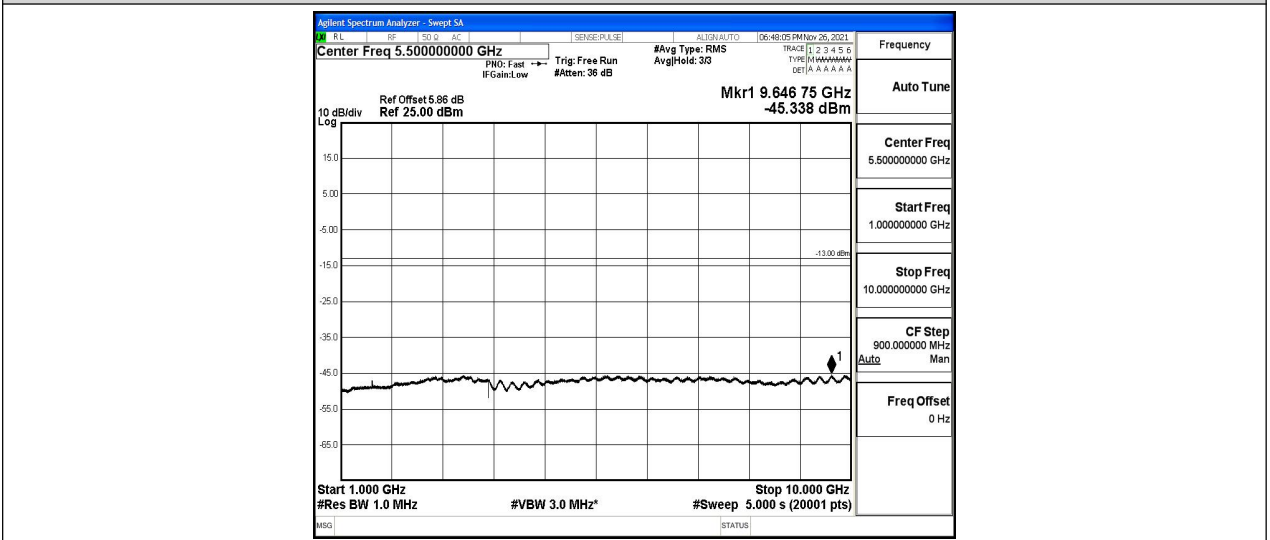
Band13-5MHz-QPSK-23205-1RB#0-Range5:763~775MHz



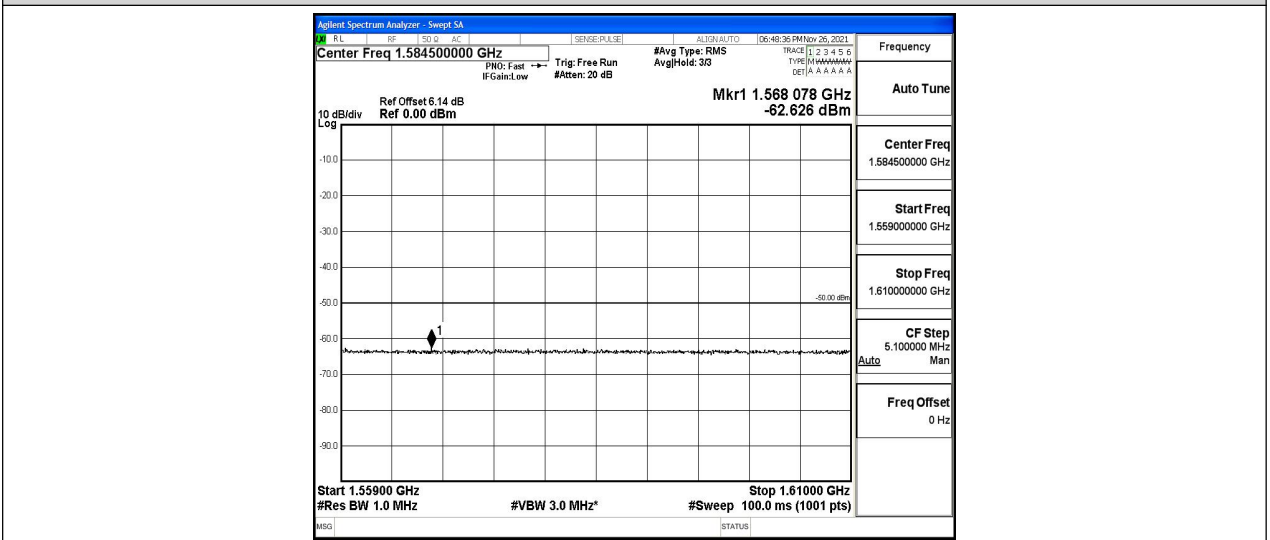
Band13-5MHz-QPSK-23205-1RB#0-Range6:793~805MHz



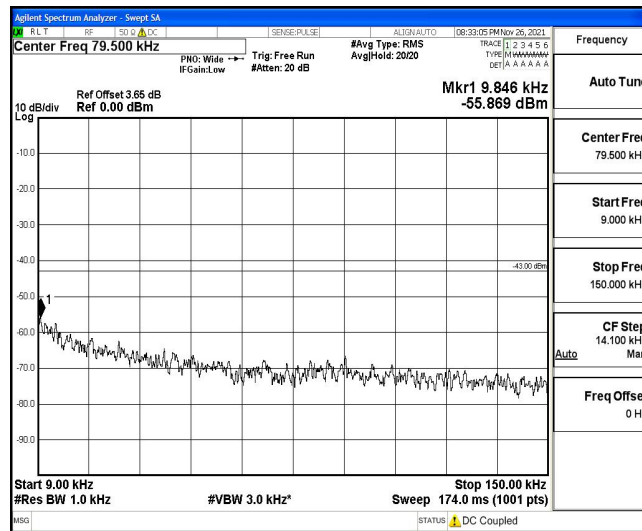
Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz



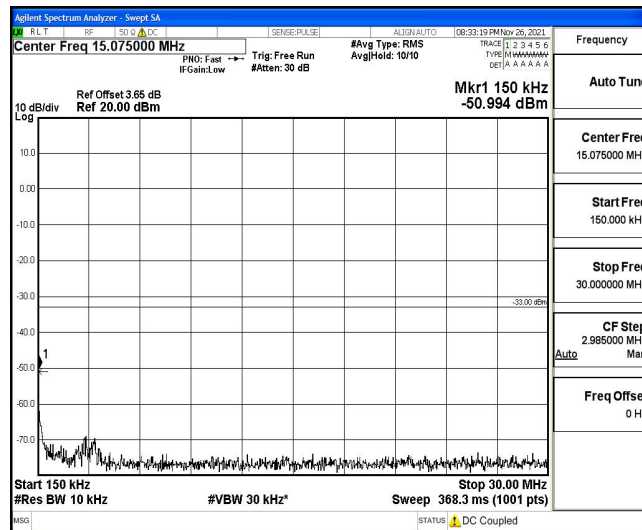
Band13-5MHz-QPSK-23205-1RB#0-Range7:1559~1610MHz



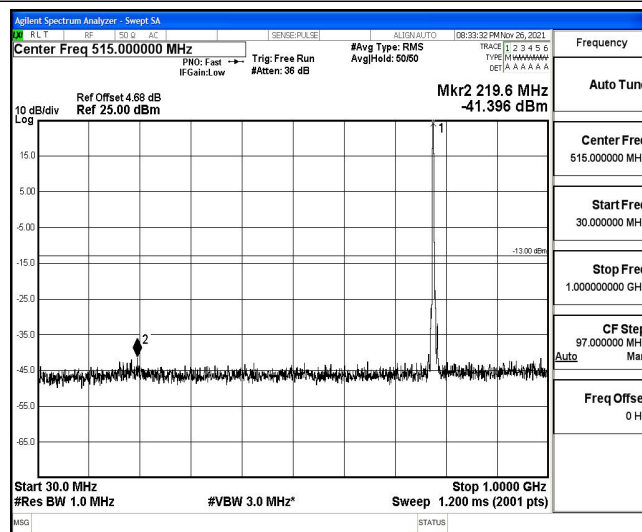
Band13-5MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



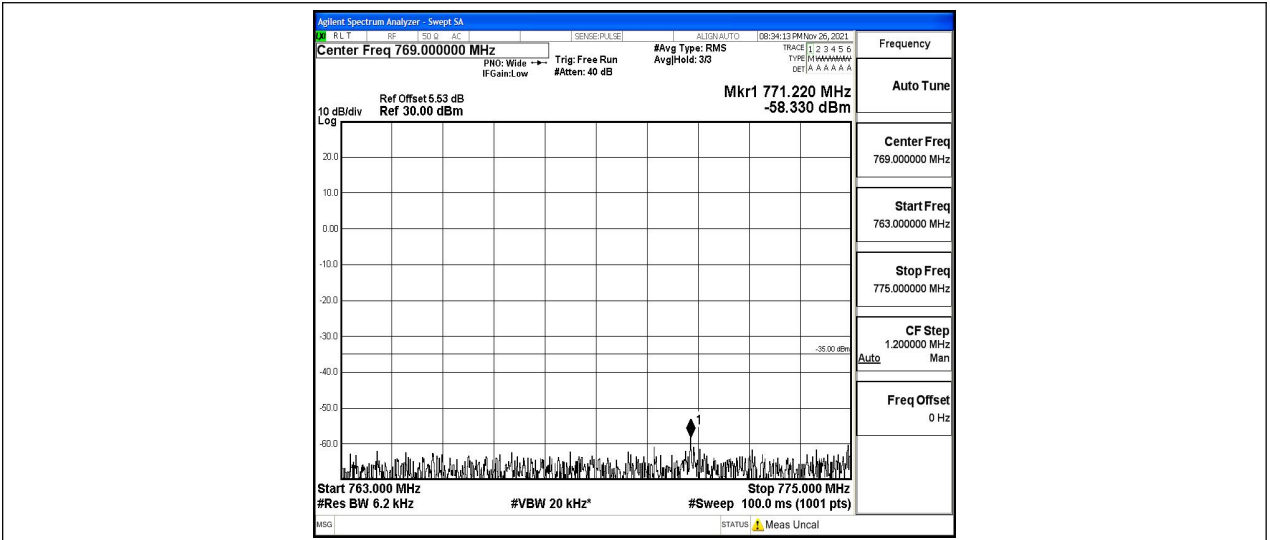
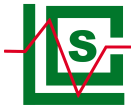
Band13-5MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



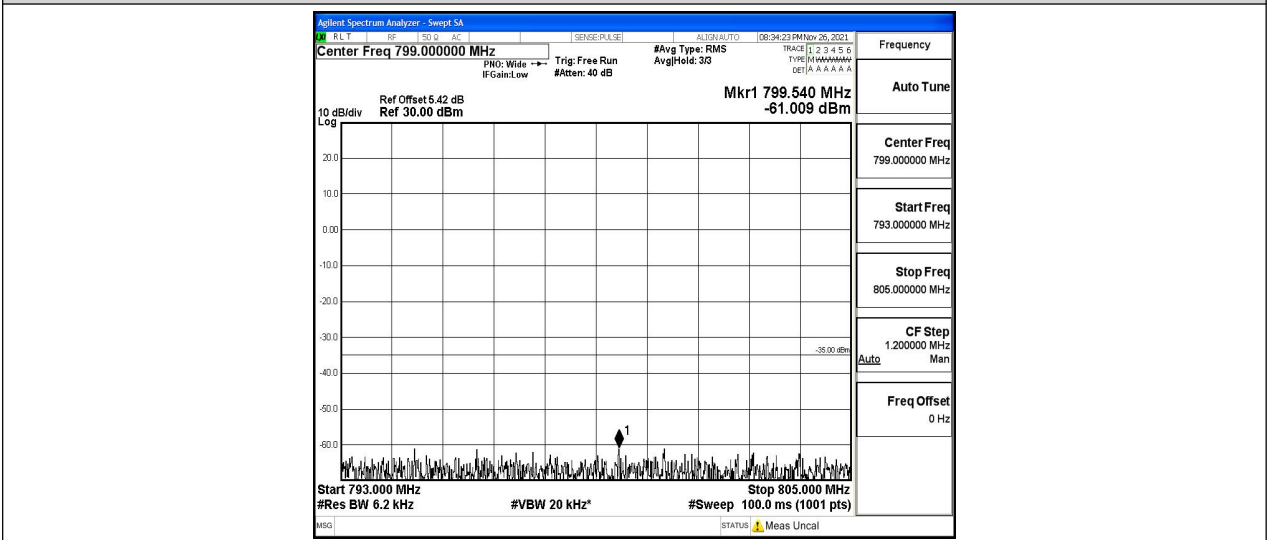
Band13-5MHz-QPSK-23230-1RB#0-Range3:30~100MHz



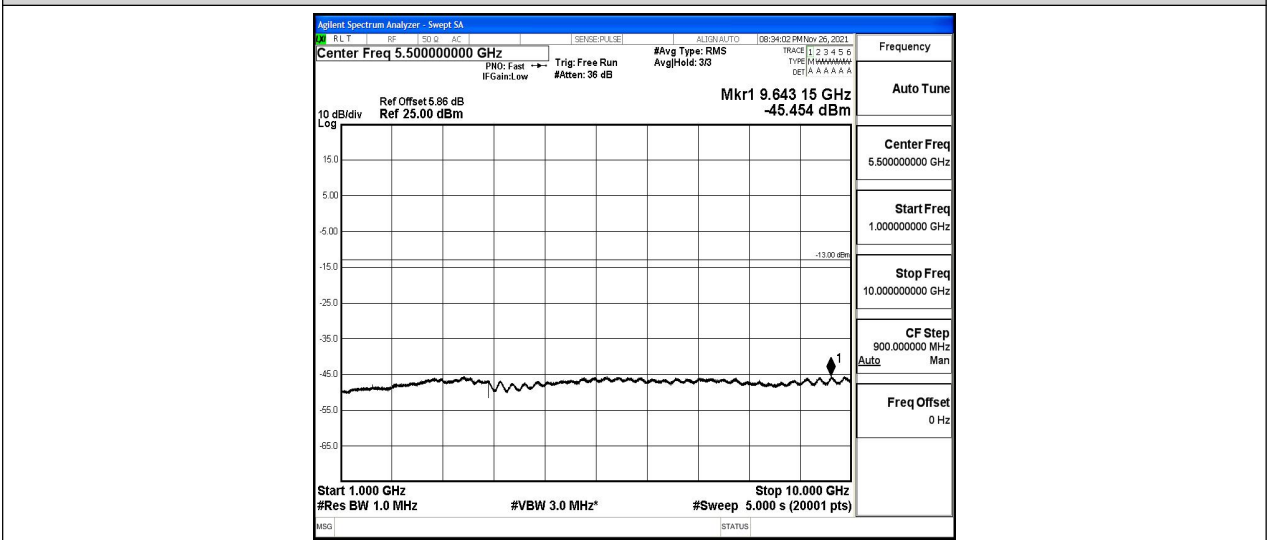
Band13-5MHz-QPSK-23230-1RB#0-Range5:763~775MHz



Band13-5MHz-QPSK-23230-1RB#0-Range6:793~805MHz



Band13-5MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



Band13-5MHz-QPSK-23230-1RB#0-Range7:1559~1610MHz