



Appendix G Test Data for E-UTRA Band 13

Product Name: OVMS

Test Model: OVMS-33-7600G

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



G.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.60	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.82	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.63	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.80	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.78	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.78	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.65	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.64	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.01	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.76	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.82	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.63	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.87	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.91	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.24	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.07	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.38	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.04	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.94	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.99	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.96	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.80	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.74	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.81	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.68	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.78	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.68	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.55	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.81	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.93	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.48	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.73	PASS



Band13	5MHz	16QAM	23230	12RB#6	20.82	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.85	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.92	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.73	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.84	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.83	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.01	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.09	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.13	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.93	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.74	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.81	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.83	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.84	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.98	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.93	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.07	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.45	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.97	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.83	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.91	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.99	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.92	PASS



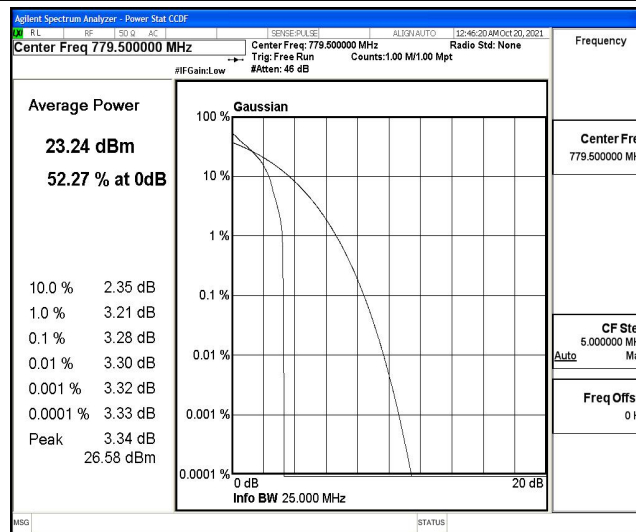
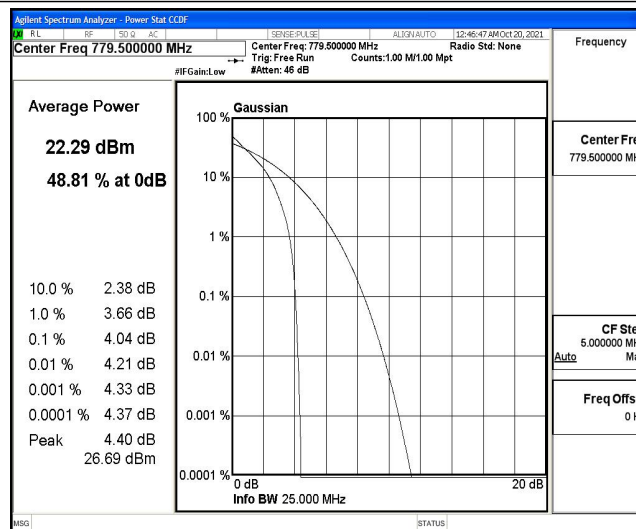
G.2 Peak-to-Average Ratio(CCDF)

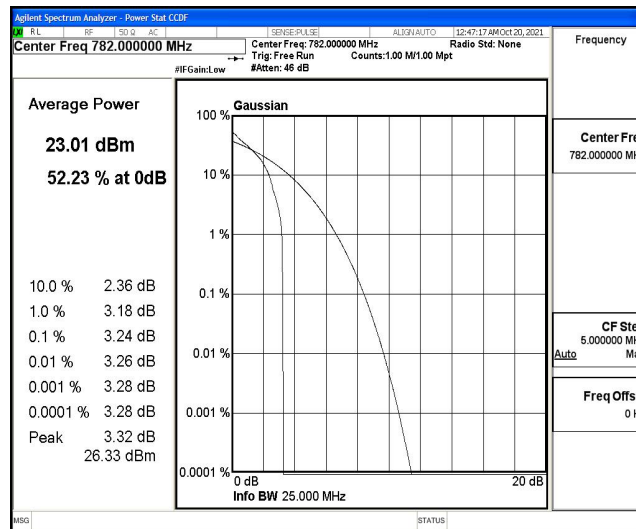
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.28	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.04	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	3.24	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.32	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.48	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.49	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.23	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.79	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.19	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.26	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.36	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.41	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.48	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.56	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.41	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.41	13	PASS

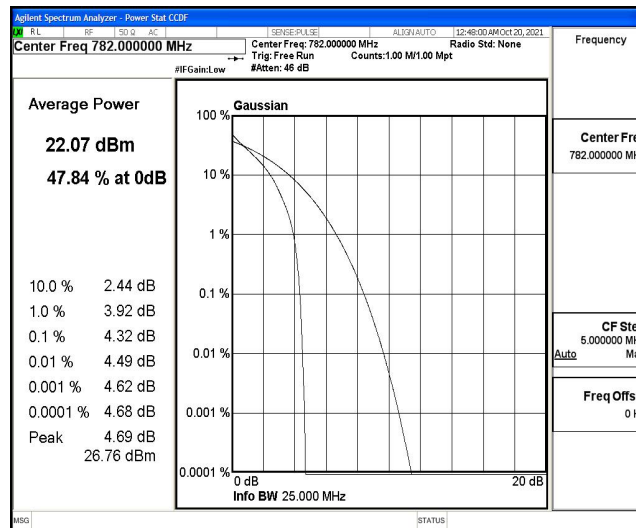


Test Graphs

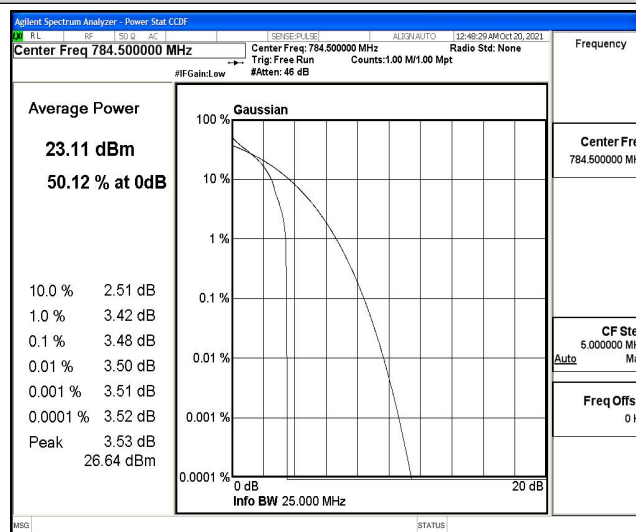
Band13-5MHz-QPSK-23205-1RB#0**Band13-5MHz-QPSK-23205-25RB#0****Band13-5MHz-QPSK-23230-1RB#0**



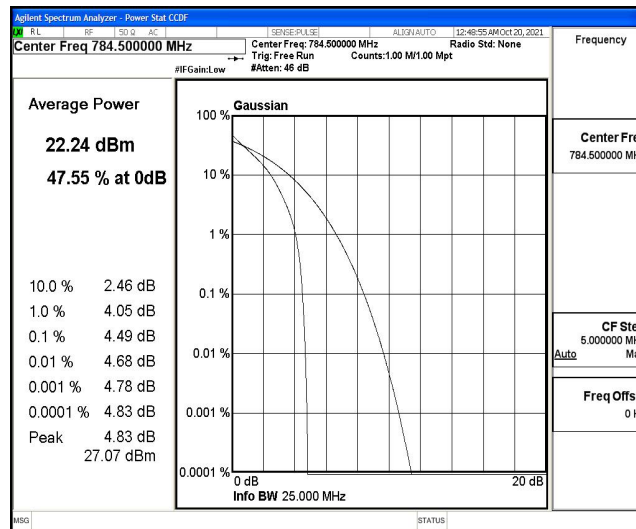
Band13-5MHz-QPSK-23230-25RB#0



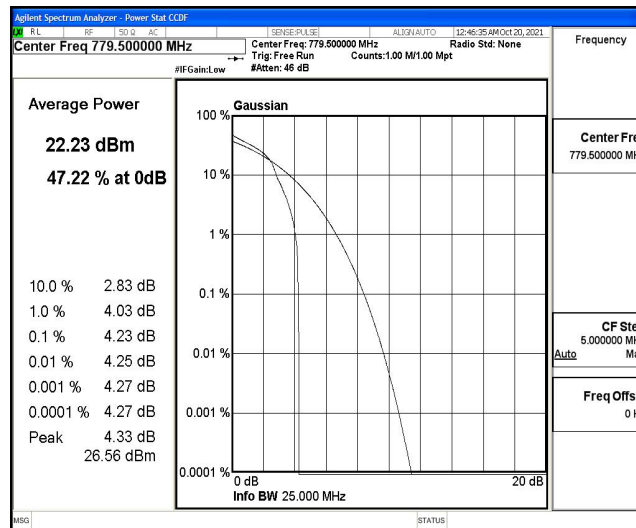
Band13-5MHz-QPSK-23255-1RB#0



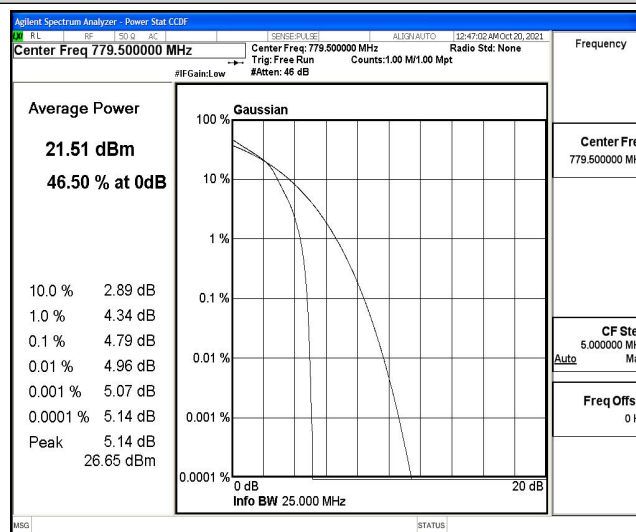
Band13-5MHz-QPSK-23255-25RB#0



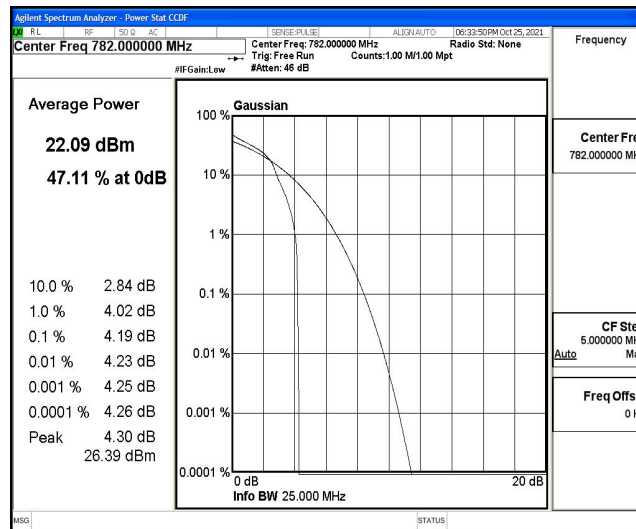
Band13-5MHz-16QAM-23205-1RB#0



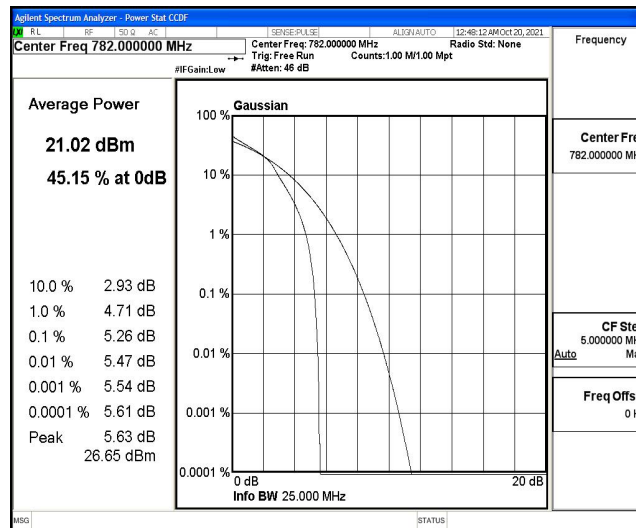
Band13-5MHz-16QAM-23205-25RB#0



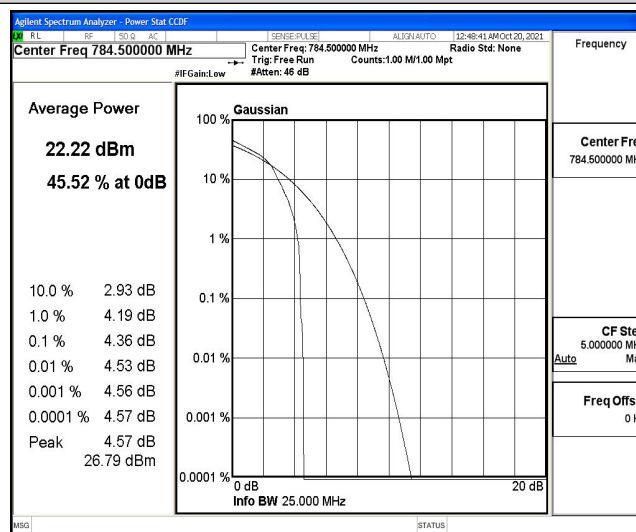
Band13-5MHz-16QAM-23230-1RB#0



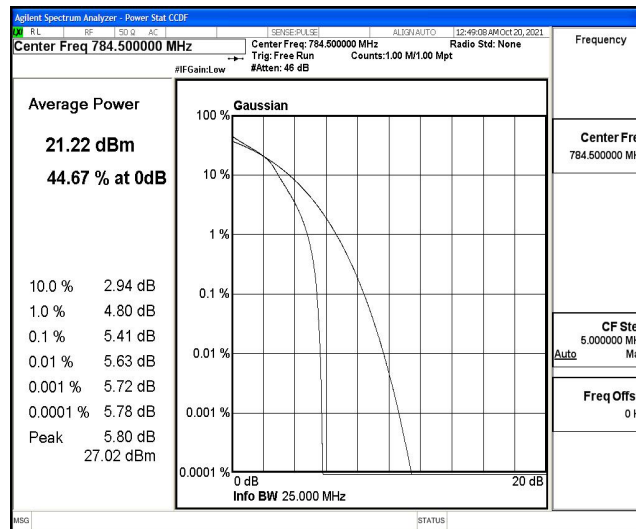
Band13-5MHz-16QAM-23230-25RB#0



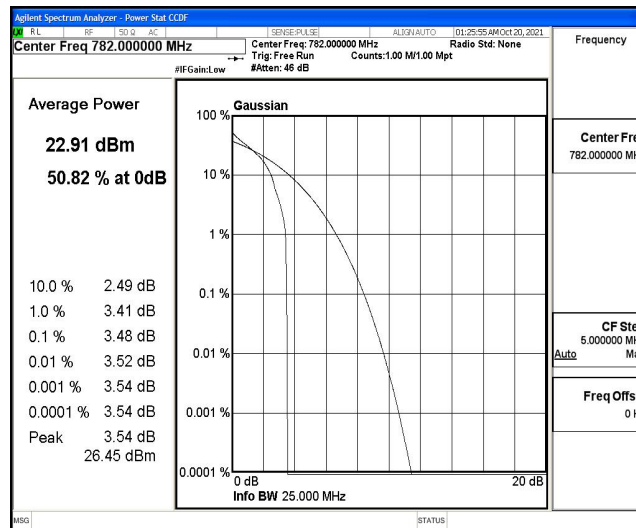
Band13-5MHz-16QAM-23255-1RB#0



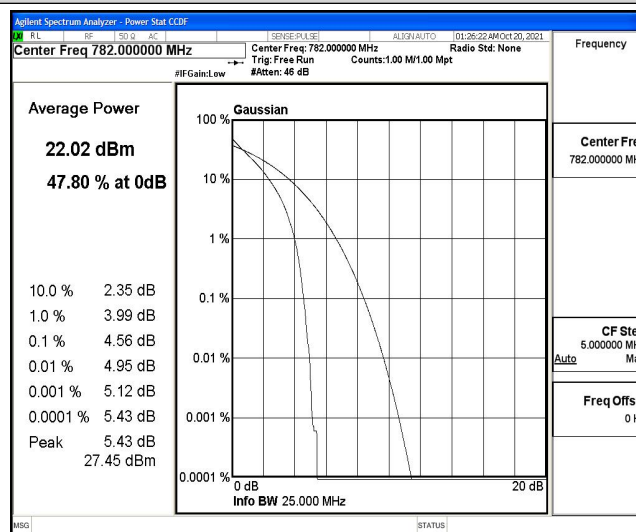
Band13-5MHz-16QAM-23255-25RB#0



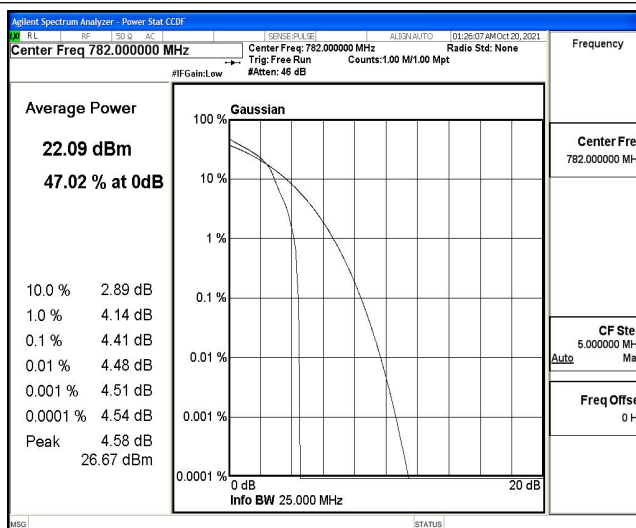
Band13-10MHz-QPSK-23230-1RB#0



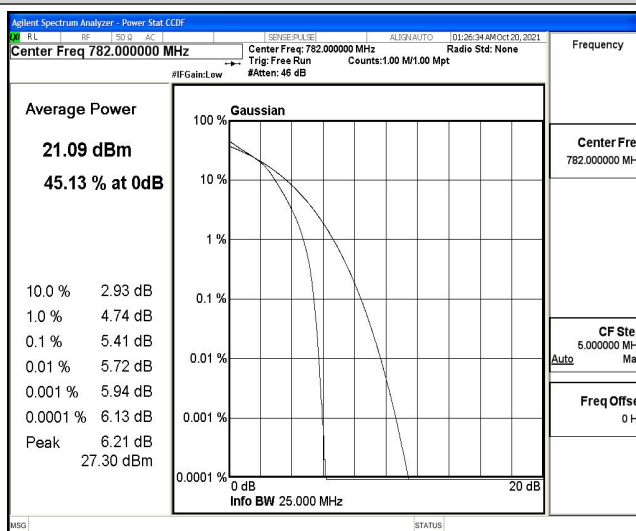
Band13-10MHz-QPSK-23230-50RB#0



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



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





G.3 26dB Bandwidth and Occupied Bandwidth

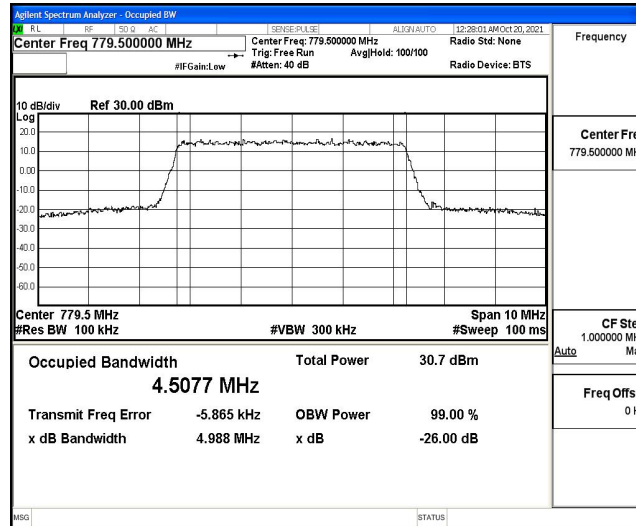
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5077	4.988	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5137	5.033	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5013	4.996	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5036	5.010	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5124	4.999	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5187	5.053	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9759	9.789	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9596	9.833	PASS

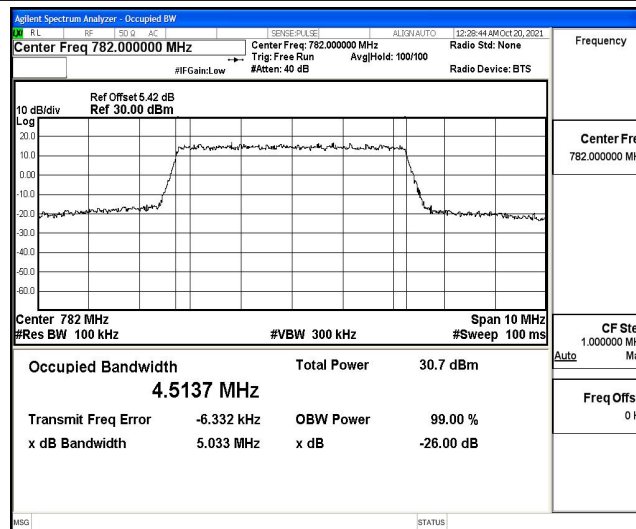


Test Graphs

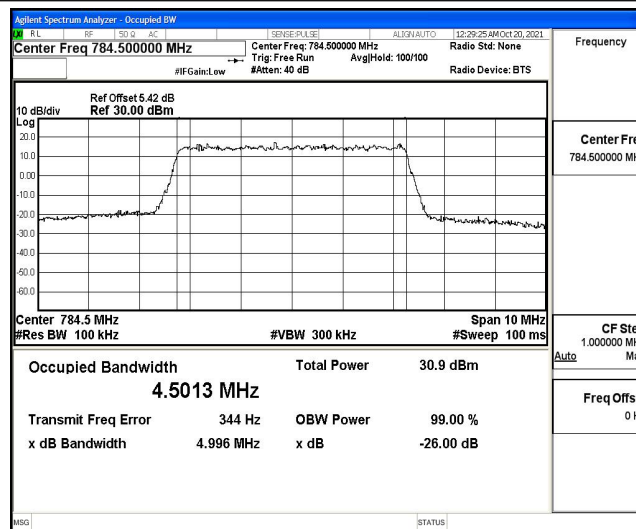
Band13-5MHz-QPSK-23205-25RB#0



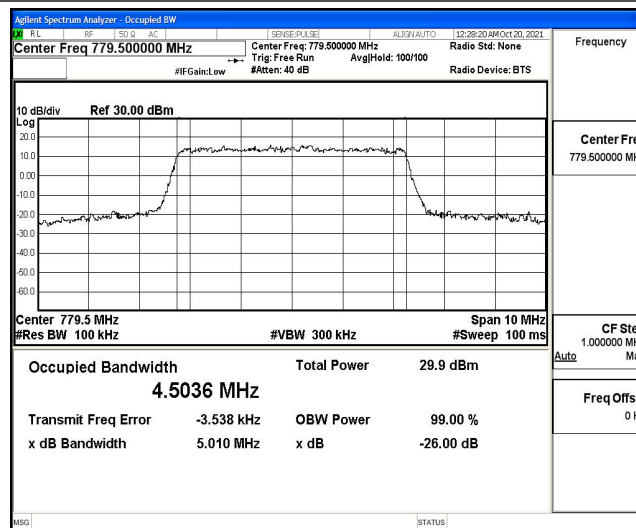
Band13-5MHz-QPSK-23230-25RB#0



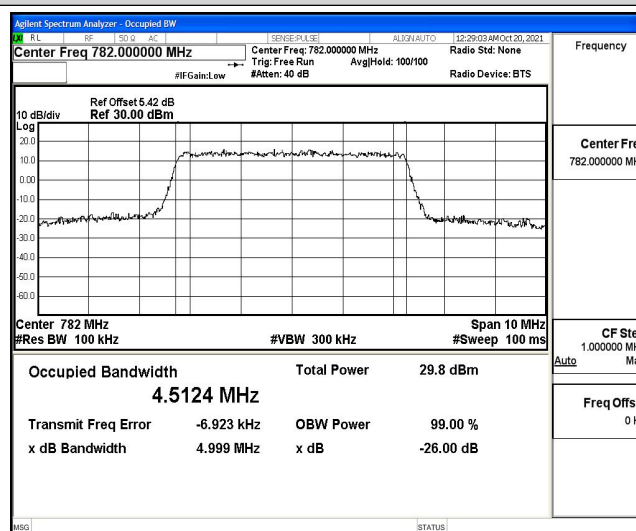
Band13-5MHz-QPSK-23255-25RB#0



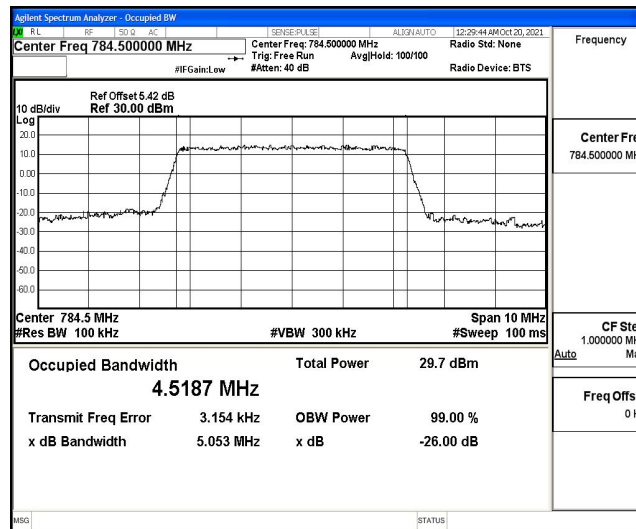
Band13-5MHz-16QAM-23205-25RB#0



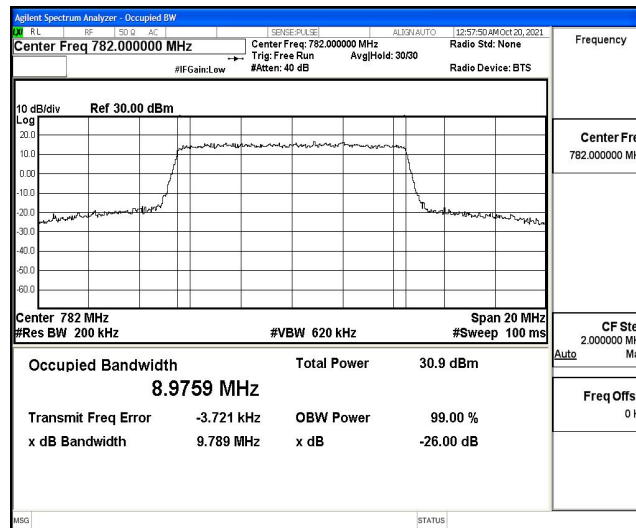
Band13-5MHz-16QAM-23230-25RB#0



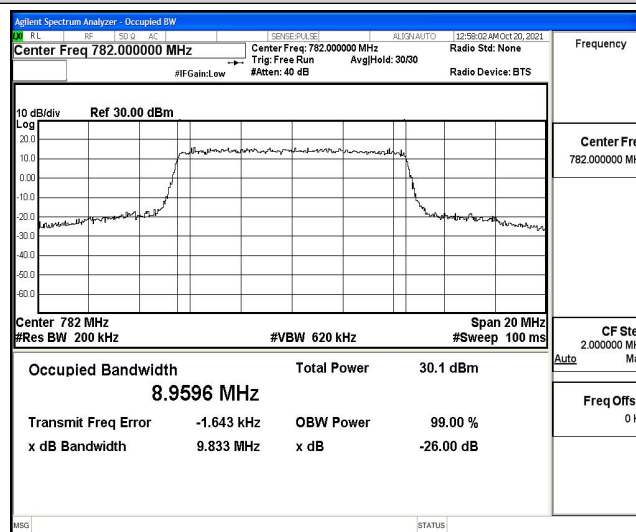
Band13-5MHz-16QAM-23255-25RB#0



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



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





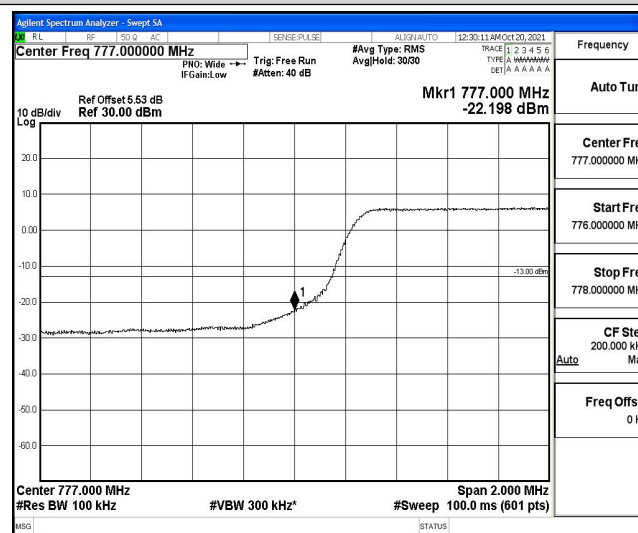
G.4 Band Edge

Test Result

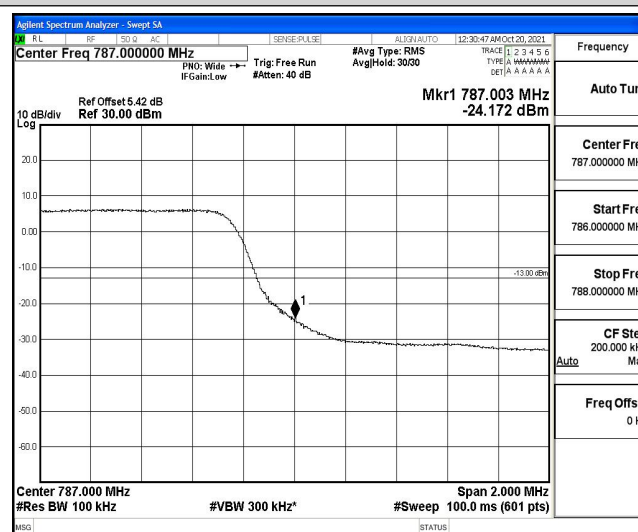
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-22.20	PASS
Band13	5MHz	QPSK	23255	25RB#0	-24.17	PASS
Band13	5MHz	16QAM	23205	25RB#0	-25.05	PASS
Band13	5MHz	16QAM	23255	25RB#0	-26.47	PASS
Band13	10MHz	QPSK	23230	50RB#0	-25.33,-26.47	PASS
Band13	10MHz	16QAM	23230	50RB#0	-27.21,-27.67	PASS

Test Graphs

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

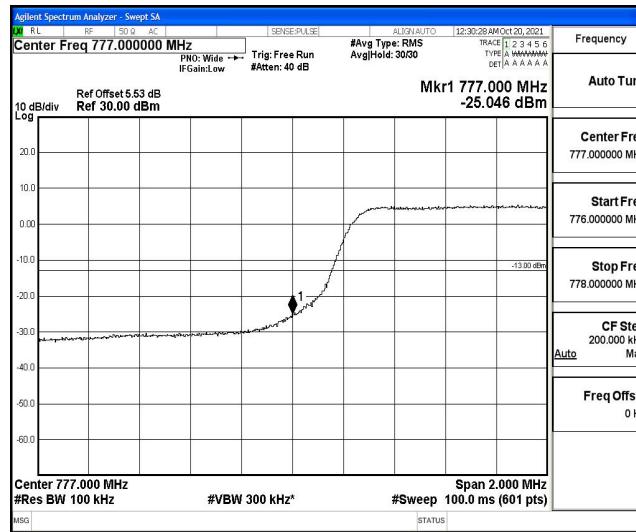


Band13-5MHz-QPSK-23255-25RB#0

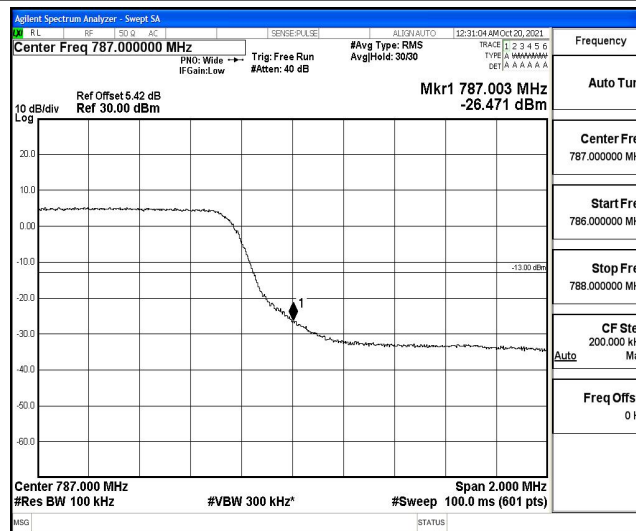




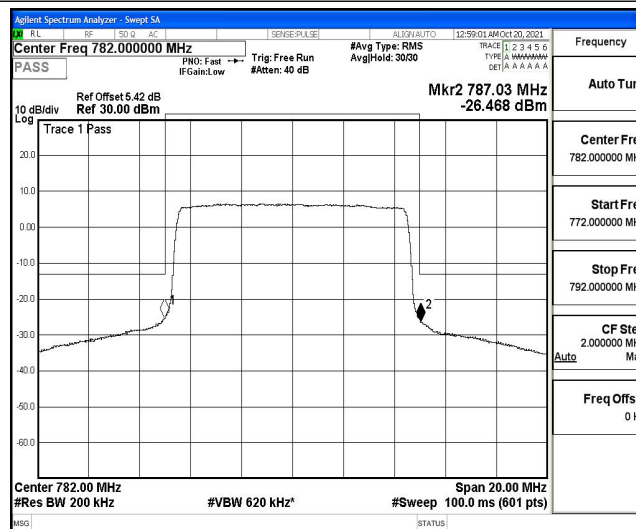
Band13-5MHz-16QAM-23205-25RB#0



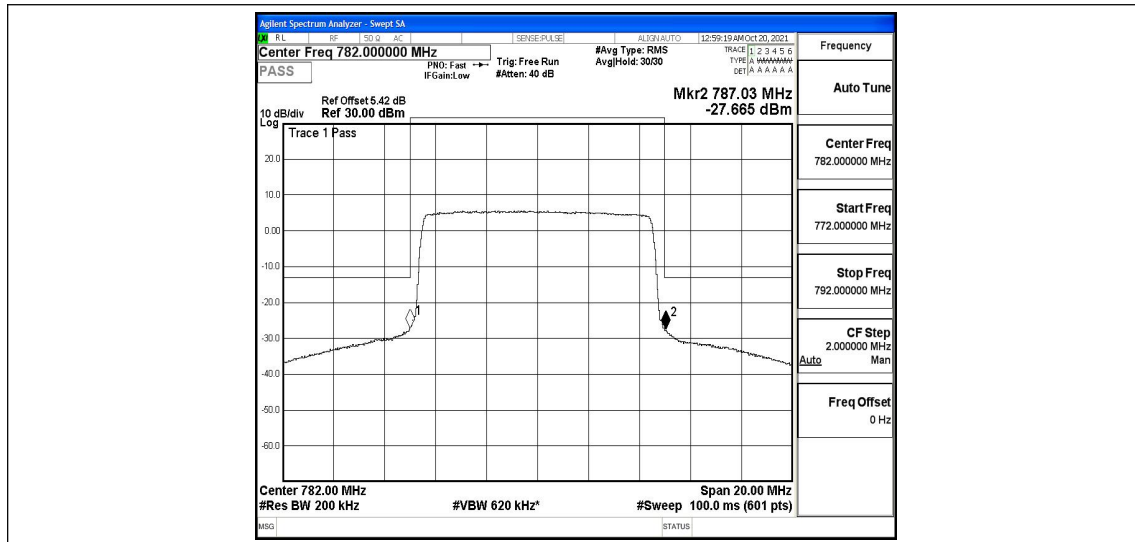
Band13-5MHz-16QAM-23255-25RB#0



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



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





G.5 Conducted Spurious Emission

Test Result

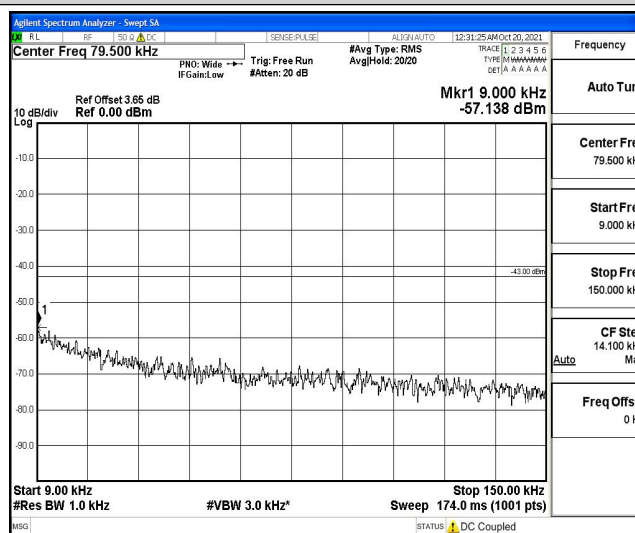
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	-57.14	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	-52.79	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	-40.49	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:763~775MHz	-51.76	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range6:793~805MHz	-61.73	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	-45.35	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range7:1559~1610MHz	-62.75	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-56.61	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-51.2	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-42.11	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-59.41	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-60.19	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-45.28	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-64.57	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	-54.8	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	-52.1	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	-41.23	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:763~775MHz	-53.44	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range6:793~805MHz	-60.8	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	-45.51	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range7:1559~1610MHz	-64.61	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	-56.05	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	-51.05	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	-41.4	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:763~775MHz	-56.79	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range6:793~805MHz	-61.14	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	-45.39	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range7:1559~1610MHz	-64.51	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-55.53	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-51.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-41.38	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-60.99	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-59.56	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-45.29	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-64.55	PASS



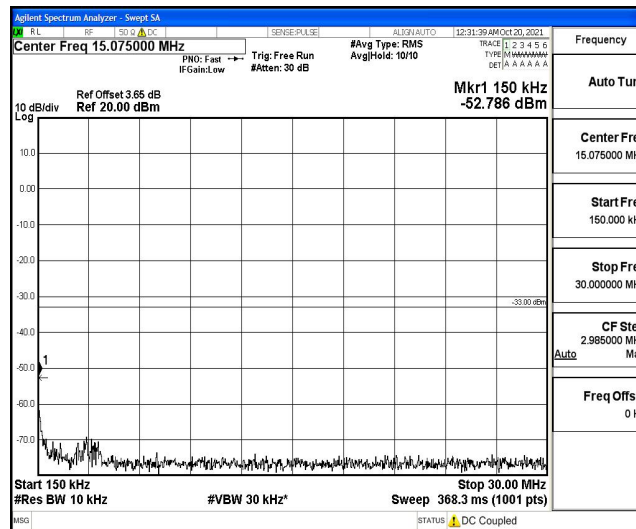
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	-56.7	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	-51.22	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	-41.78	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	-59.78	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	-61.38	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	-45.35	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range7:1559~1610MHz	-64.67	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-56.83	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-52.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-40.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-52.37	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-57.16	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-45.27	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-62.7	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-56.53	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-52.88	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-39.91	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-52.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-58.16	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-45.39	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-62.91	PASS

Test Graphs

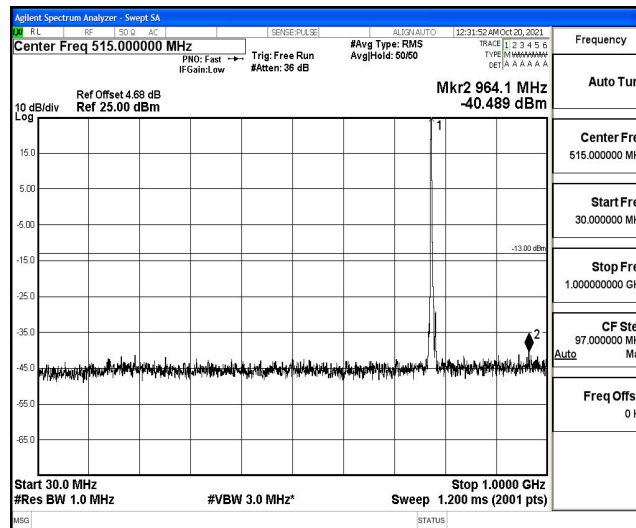
Band13-5MHz-QPSK-23205-1RB#0-Range1:0.009~0.15MHz



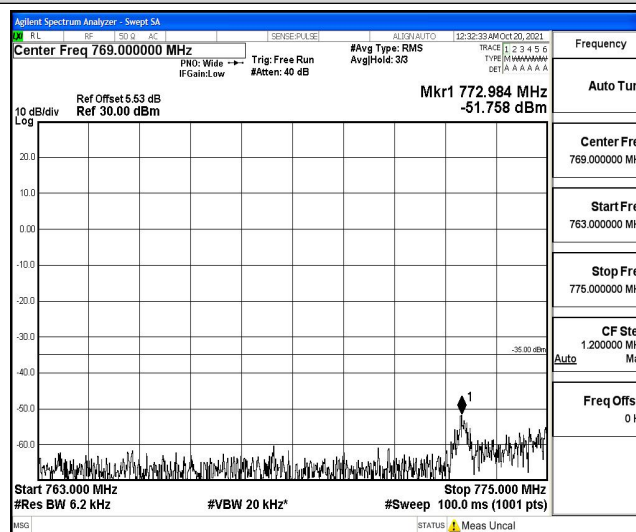
Band13-5MHz-QPSK-23205-1RB#0-Range2:0.15~30MHz



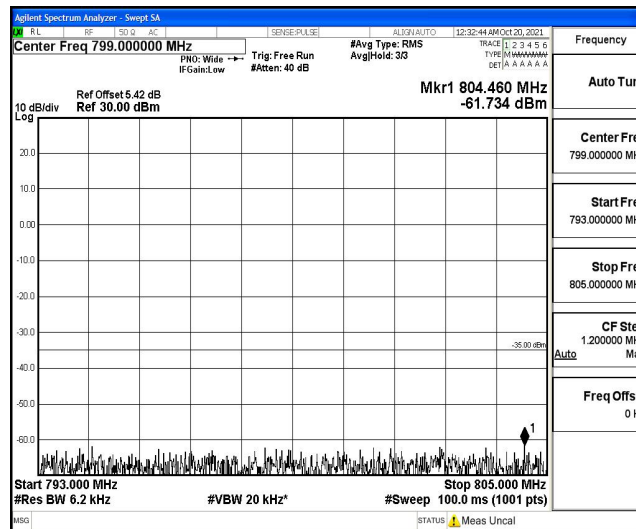
Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



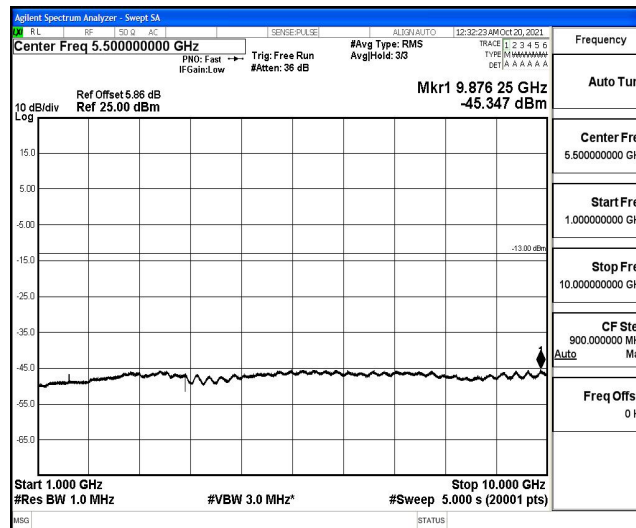
Band13-5MHz-QPSK-23205-1RB#0-Range5:763~775MHz



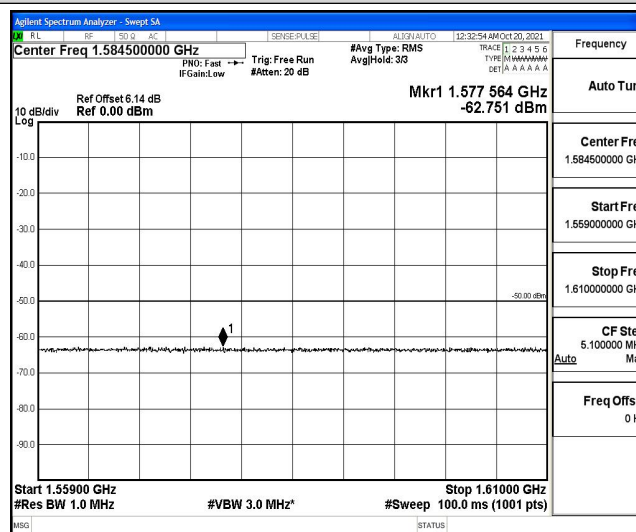
Band13-5MHz-QPSK-23205-1RB#0-Range6:793~805MHz



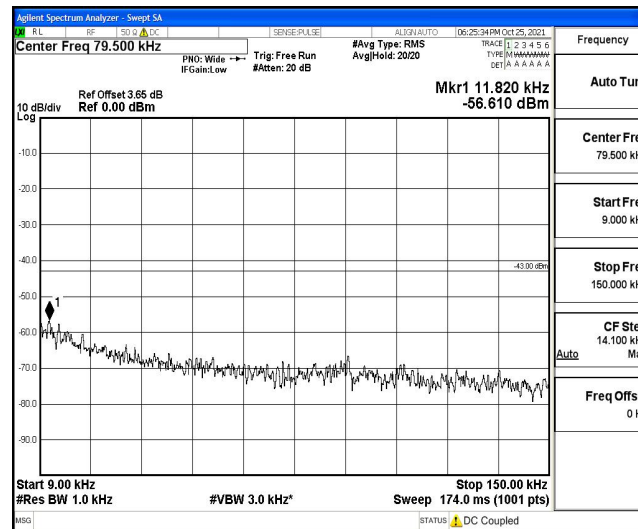
Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz



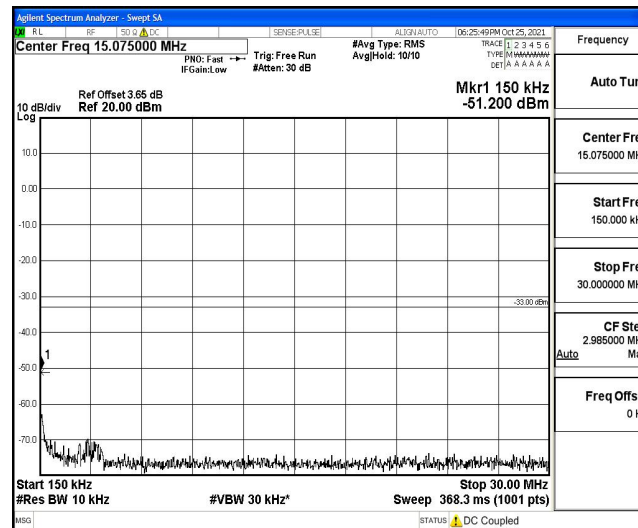
Band13-5MHz-QPSK-23205-1RB#0-Range7:1559~1610MHz



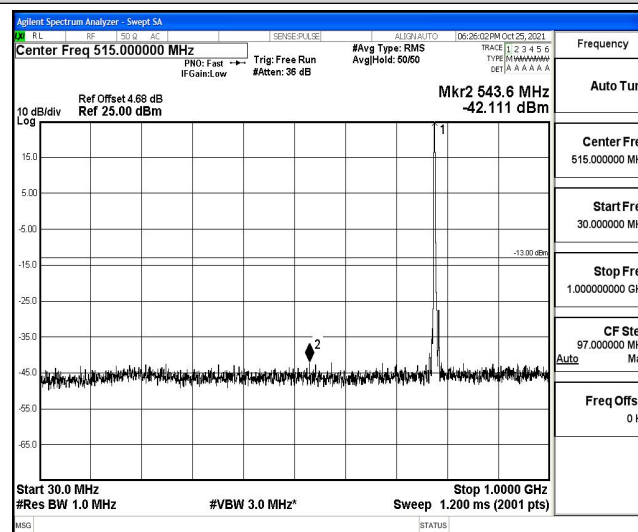
Band13-5MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



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



Band13-5MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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