



LORA multi-function positioning terminal

M/N:KG-04

FCC ID:2AQSK-KG-04

Applicant:HuiZhou BoShiJie Technology CO.,Ltd

Appendix for LTE Band 40



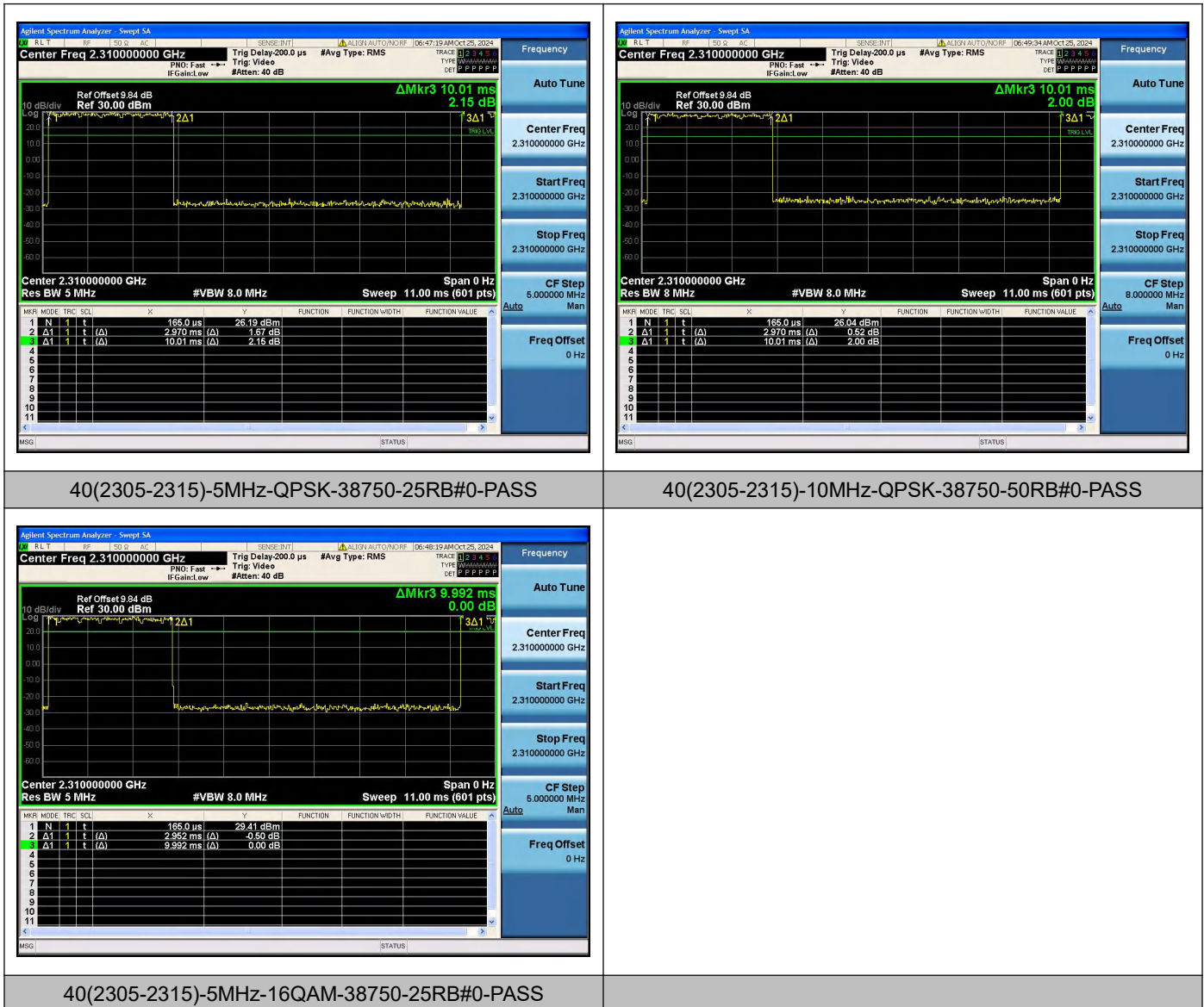
Appendix A: Duty Cycle

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Duty Cycle	Dc Factor	Verdict
40(2305-2315)	5MHz	QPSK	38750	25RB#0	29.67	5.28	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	29.54	5.30	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	29.67	5.28	PASS



Test Graphs



40(2305-2315)-5MHz-QPSK-38750-25RB#0-PASS

40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS

40(2305-2315)-5MHz-16QAM-38750-25RB#0-PASS



Appendix B: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
40(2305-2315)	5MHz	QPSK	38725	1RB#0	22.73	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#24	22.81	PASS
40(2305-2315)	5MHz	QPSK	38725	1RB#49	23.11	PASS
40(2305-2315)	5MHz	QPSK	38725	25RB#0	22.55	PASS
40(2305-2315)	5MHz	QPSK	38725	25RB#12	22.81	PASS
40(2305-2315)	5MHz	QPSK	38725	25RB#25	22.90	PASS
40(2305-2315)	5MHz	QPSK	38725	50RB#0	22.98	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	22.85	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#24	23.04	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#49	23.65	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#0	21.74	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#12	22.51	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#25	22.10	PASS
40(2305-2315)	5MHz	16QAM	38725	50RB#0	22.71	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	23.15	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#24	23.48	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#49	23.78	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#0	22.32	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#12	22.15	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#25	21.61	PASS
40(2305-2315)	5MHz	QPSK	38750	50RB#0	22.38	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	22.94	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#24	23.82	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#49	23.26	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	21.03	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#12	21.13	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#25	21.28	PASS
40(2305-2315)	5MHz	16QAM	38750	50RB#0	21.74	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	22.68	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#24	23.14	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#49	23.52	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#0	21.58	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#12	21.60	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#25	22.21	PASS
40(2305-2315)	5MHz	QPSK	38775	50RB#0	21.65	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	23.01	PASS



40(2305-2315)	5MHz	16QAM	38775	1RB#24	22.46	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#49	23.19	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#0	21.05	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#12	21.04	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#25	21.30	PASS
40(2305-2315)	5MHz	16QAM	38775	50RB#0	21.94	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	22.77	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#24	23.04	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#49	23.24	PASS
40(2305-2315)	10MHz	QPSK	38750	25RB#0	23.63	PASS
40(2305-2315)	10MHz	QPSK	38750	25RB#12	23.74	PASS
40(2305-2315)	10MHz	QPSK	38750	25RB#25	22.46	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	20.45	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	23.49	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#24	23.62	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#49	22.01	PASS
40(2305-2315)	10MHz	16QAM	38750	25RB#0	23.01	PASS
40(2305-2315)	10MHz	16QAM	38750	25RB#12	22.47	PASS
40(2305-2315)	10MHz	16QAM	38750	25RB#25	21.32	PASS



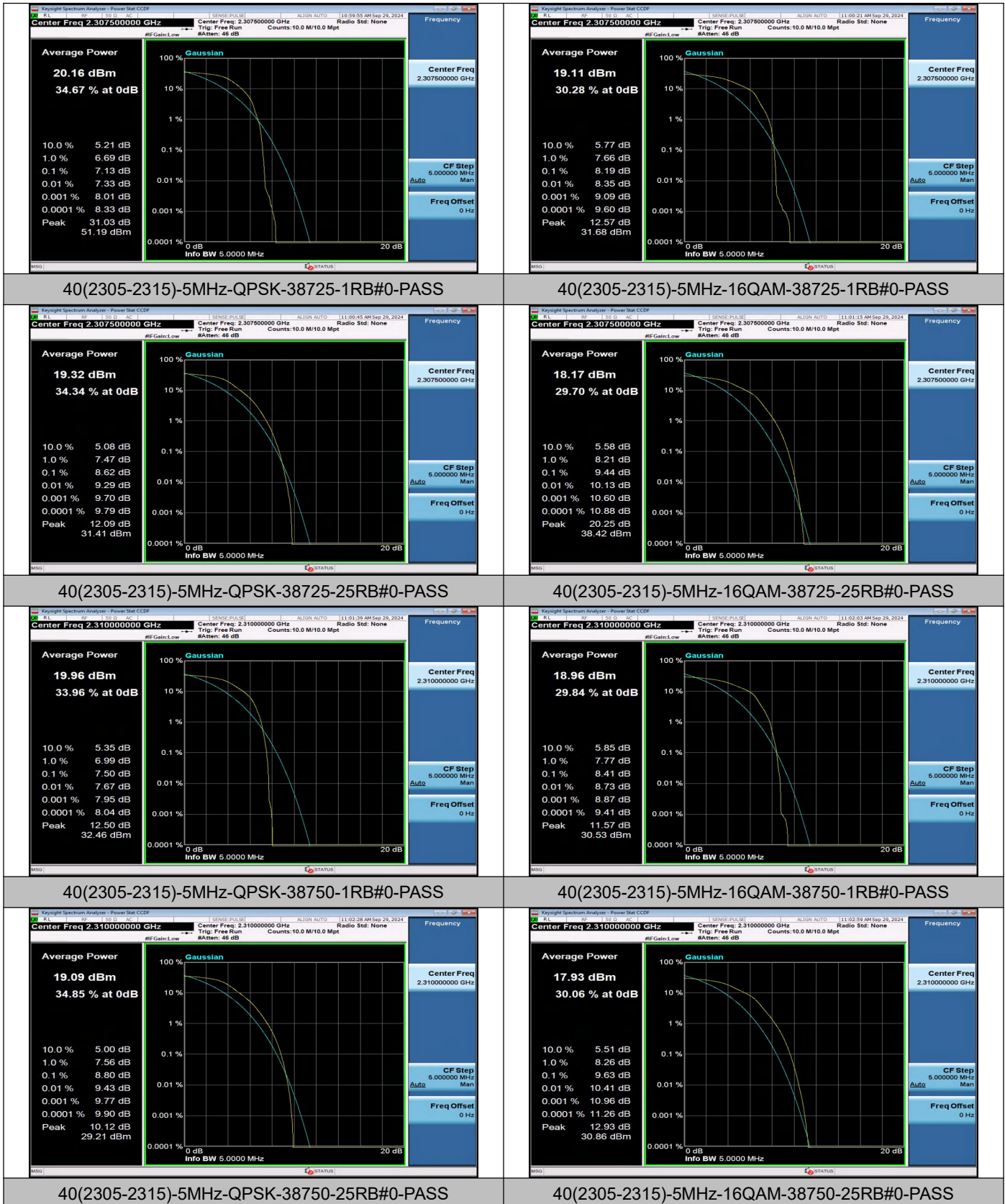
Appendix C: Peak-to-Average Ratio(CCDF)

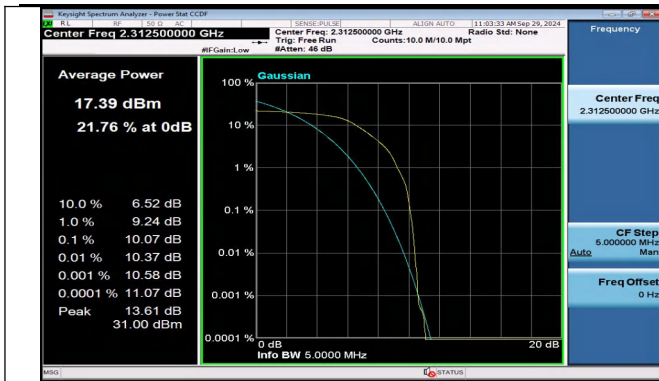
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
40(2305-2315)	5MHz	QPSK	38725	1RB#0	7.13	13	PASS
40(2305-2315)	5MHz	16QAM	38725	1RB#0	8.19	13	PASS
40(2305-2315)	5MHz	QPSK	38725	25RB#0	8.62	13	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#0	9.44	13	PASS
40(2305-2315)	5MHz	QPSK	38750	1RB#0	7.50	13	PASS
40(2305-2315)	5MHz	16QAM	38750	1RB#0	8.41	13	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#0	8.80	13	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	9.63	13	PASS
40(2305-2315)	5MHz	QPSK	38775	1RB#0	10.07	13	PASS
40(2305-2315)	5MHz	16QAM	38775	1RB#0	8.80	13	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#0	9.09	13	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#0	9.85	13	PASS
40(2305-2315)	10MHz	QPSK	38750	1RB#0	7.26	13	PASS
40(2305-2315)	10MHz	16QAM	38750	1RB#0	8.35	13	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	5.60	13	PASS

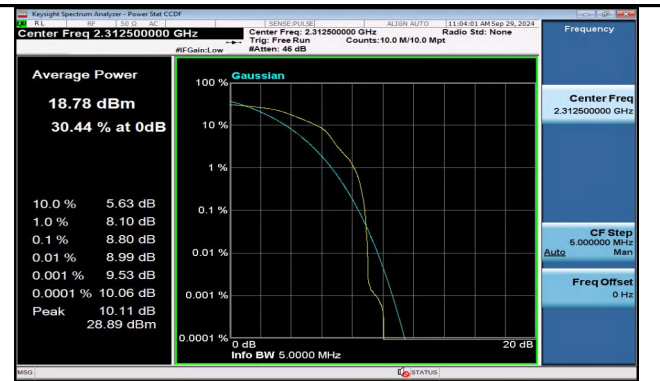


Test Graphs

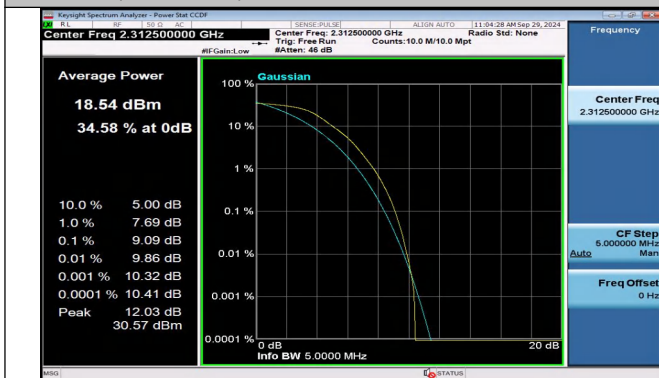




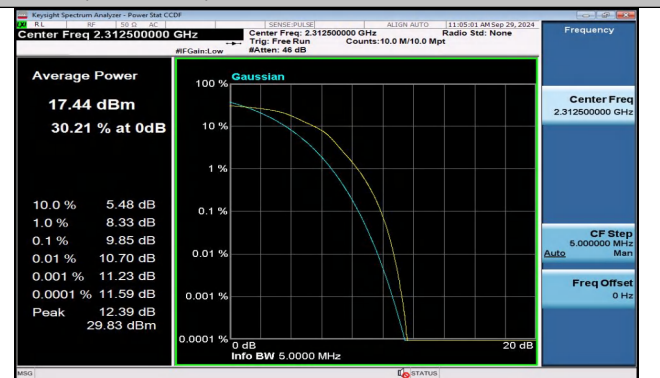
40(2305-2315)-5MHz-QPSK-38775-1RB#0-PASS



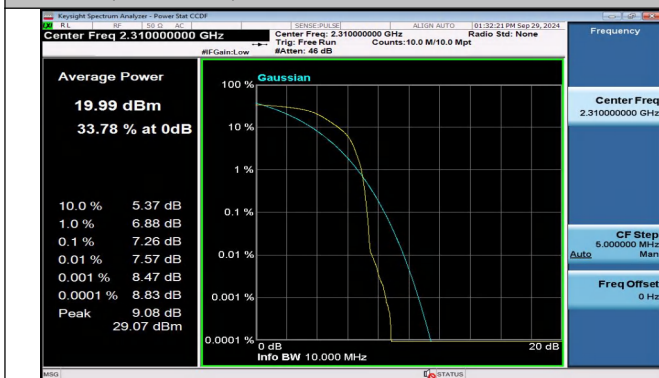
40(2305-2315)-5MHz-16QAM-38775-1RB#0-PASS



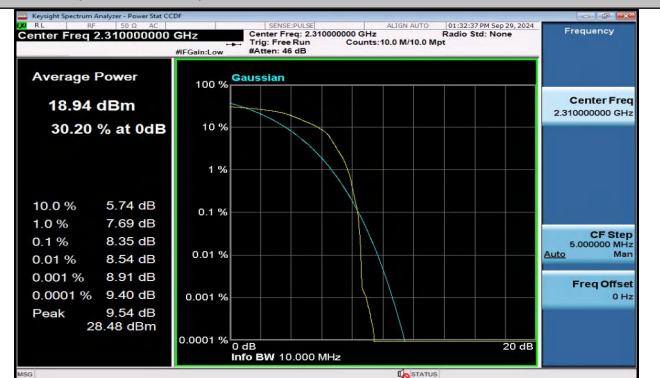
40(2305-2315)-5MHz-QPSK-38775-25RB#0-PASS



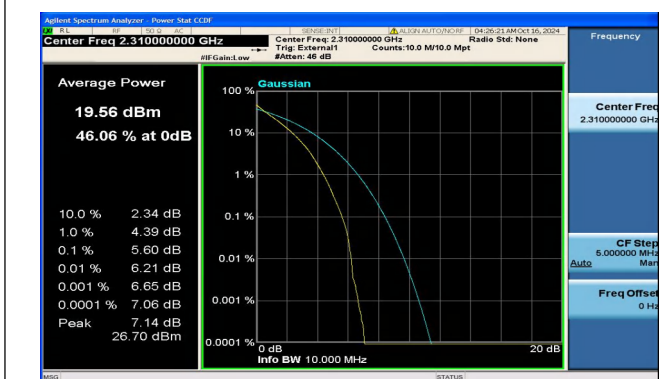
40(2305-2315)-5MHz-16QAM-38775-25RB#0-PASS



40(2305-2315)-10MHz-QPSK-38750-1RB#0-PASS



40(2305-2315)-10MHz-16QAM-38750-1RB#0-PASS



Band40(2305-2315)-10MHz-QPSK-38750-50RB#0-PASS



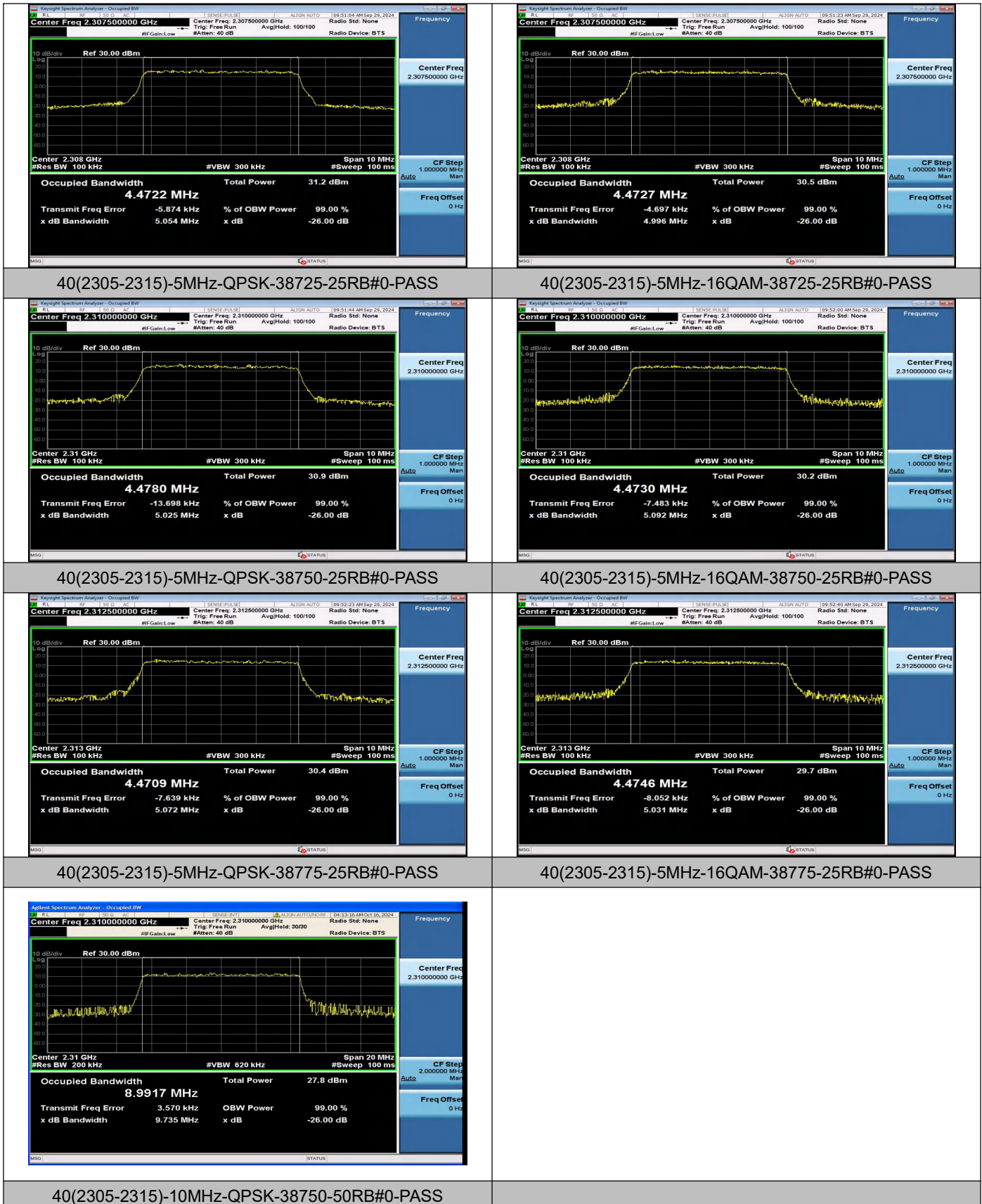
Appendix D: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
40(2305-2315)	5MHz	QPSK	38725	25RB#0	4.4722	5.054	PASS
40(2305-2315)	5MHz	16QAM	38725	25RB#0	4.4727	4.996	PASS
40(2305-2315)	5MHz	QPSK	38750	25RB#0	4.4780	5.025	PASS
40(2305-2315)	5MHz	16QAM	38750	25RB#0	4.4730	5.092	PASS
40(2305-2315)	5MHz	QPSK	38775	25RB#0	4.4709	5.072	PASS
40(2305-2315)	5MHz	16QAM	38775	25RB#0	4.4746	5.031	PASS
40(2305-2315)	10MHz	QPSK	38750	50RB#0	8.9917	9.735	PASS



Test Graphs



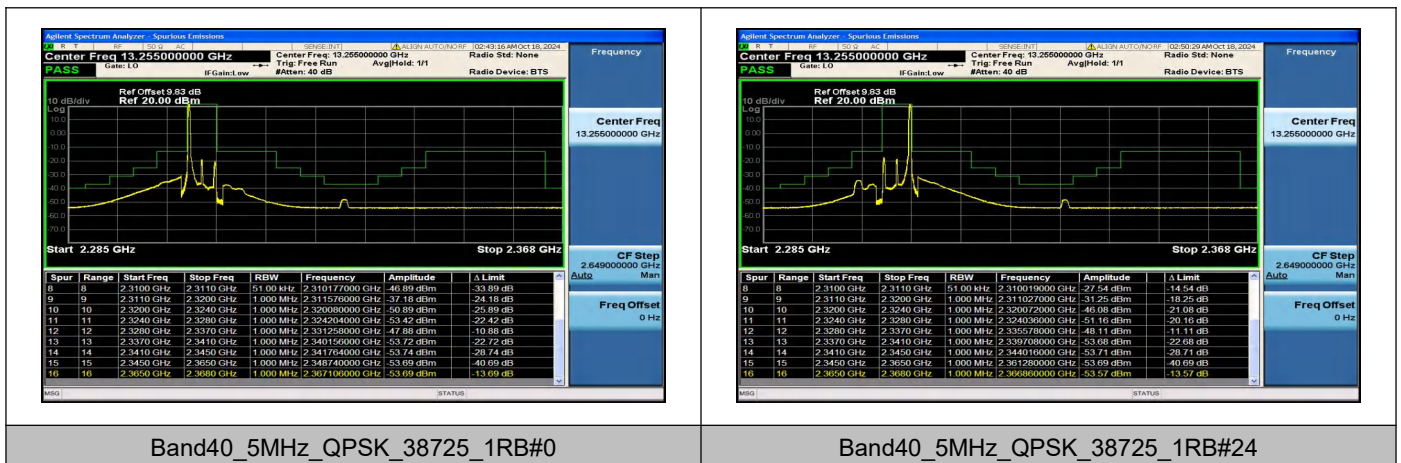


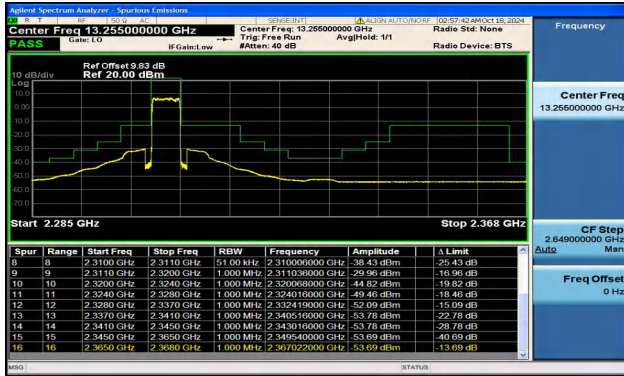
Appendix E: Band Edge

Test Result

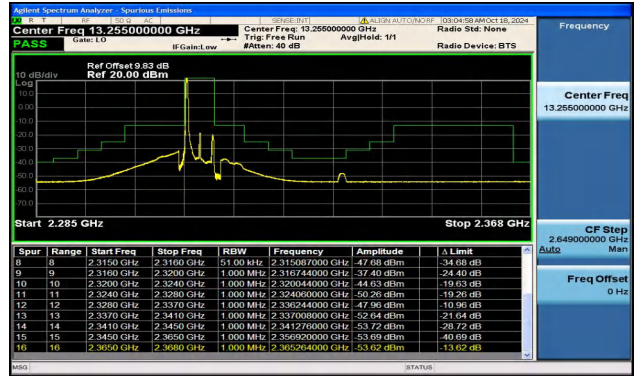
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	1RB#0	-47.88	PASS
Band40(2305-2315)	5MHz	QPSK	38725	1RB#24	-48.11	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	-48.22	PASS
Band40(2305-2315)	5MHz	QPSK	38775	1RB#0	-47.96	PASS
Band40(2305-2315)	5MHz	QPSK	38775	1RB#24	-47.32	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	-51.71	PASS
Band40(2305-2315)	5MHz	16QAM	38725	1RB#0	-48.86	PASS
Band40(2305-2315)	5MHz	16QAM	38725	1RB#24	-49.05	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	-36.71	PASS
Band40(2305-2315)	5MHz	16QAM	38775	1RB#0	-48.88	PASS
Band40(2305-2315)	5MHz	16QAM	38775	1RB#24	-48.35	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	-52.21	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#0	-50.84	PASS
Band40(2305-2315)	10MHz	QPSK	38750	1RB#49	-32.82	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	-43.45	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#0	-51.26	PASS
Band40(2305-2315)	10MHz	16QAM	38750	1RB#49	-49.23	PASS

Test Graphs

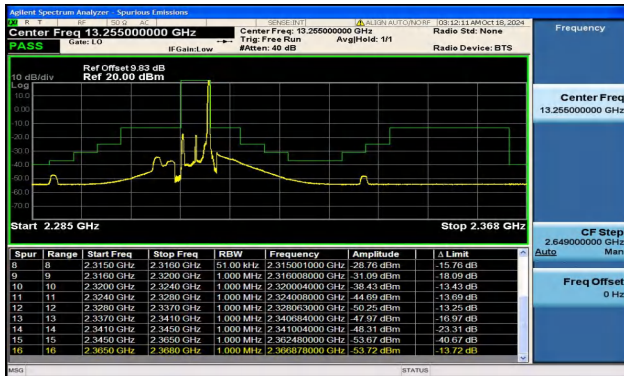




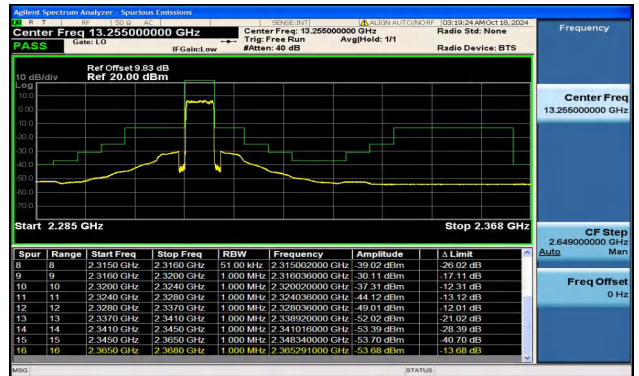
Band40_5MHz_QPSK_38725_25RB#0



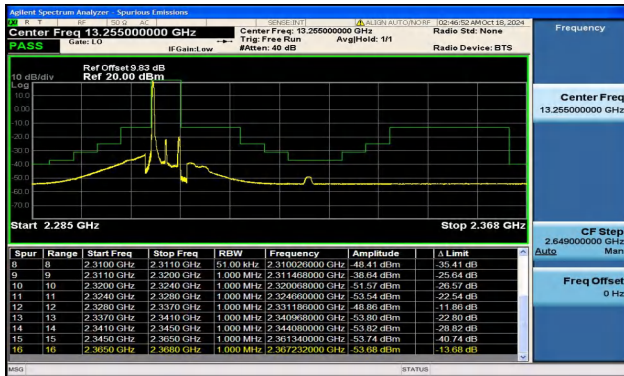
Band40_5MHz_QPSK_38775_1RB#0



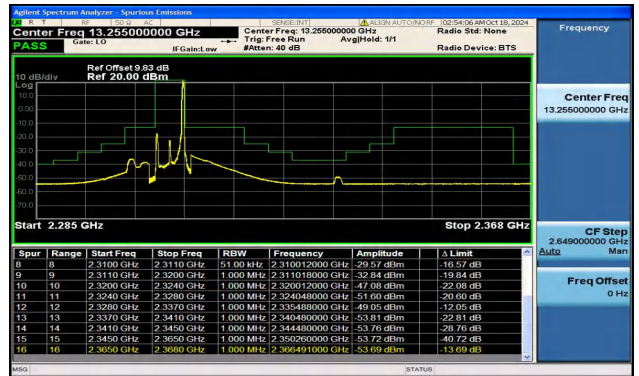
Band40_5MHz_QPSK_38775_1RB#24



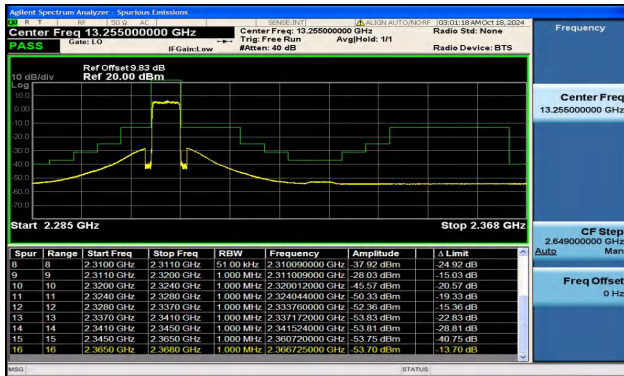
Band40_5MHz_QPSK_38775_25RB#0



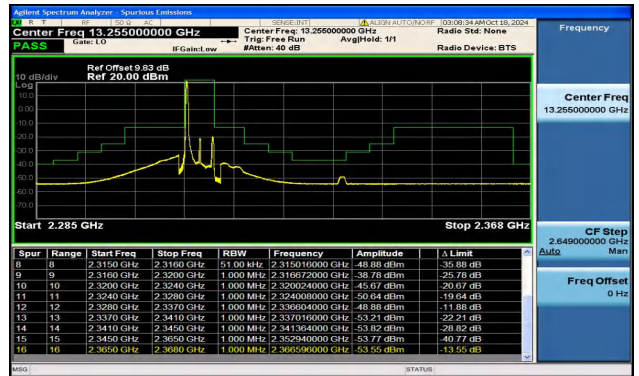
Band40_5MHz_16QAM_38725_1RB#0



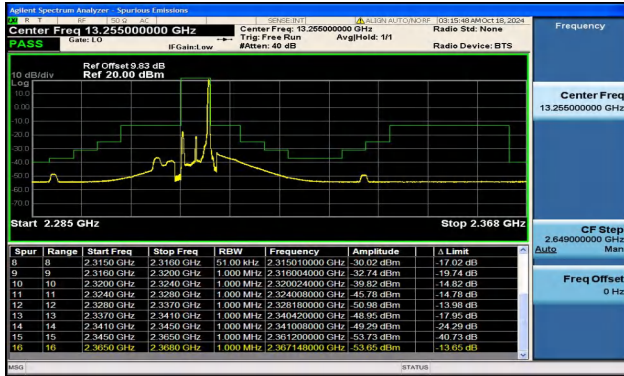
Band40_5MHz_16QAM_38725_1RB#24



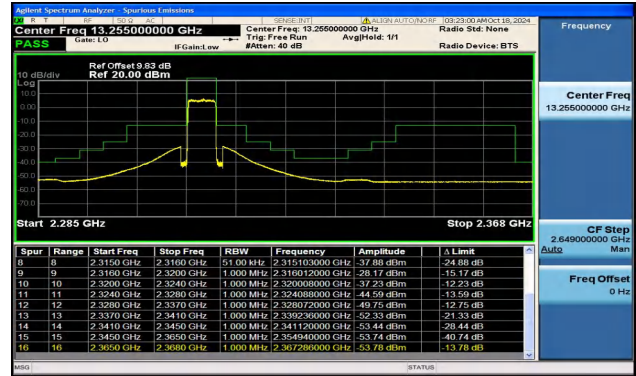
Band40_5MHz_16QAM_38725_25RB#0



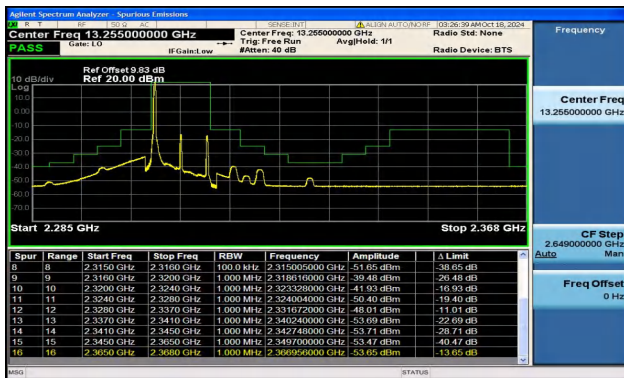
Band40_5MHz_16QAM_38775_1RB#0



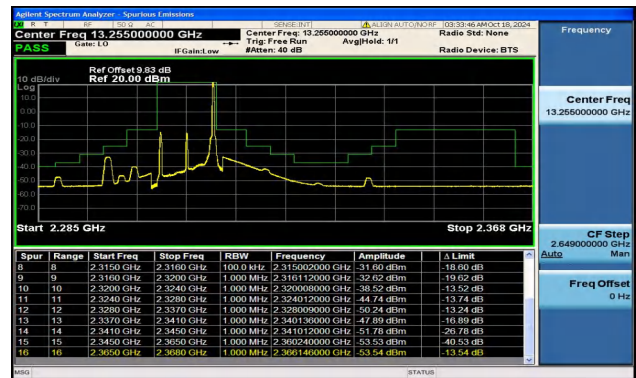
Band40_5MHz_16QAM_38775_1RB#24



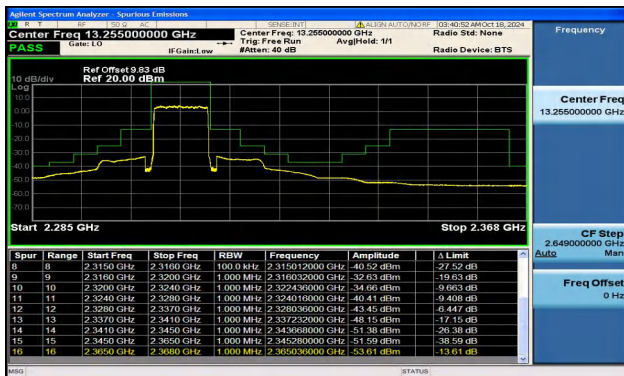
Band40_5MHz_16QAM_38775_25RB#0



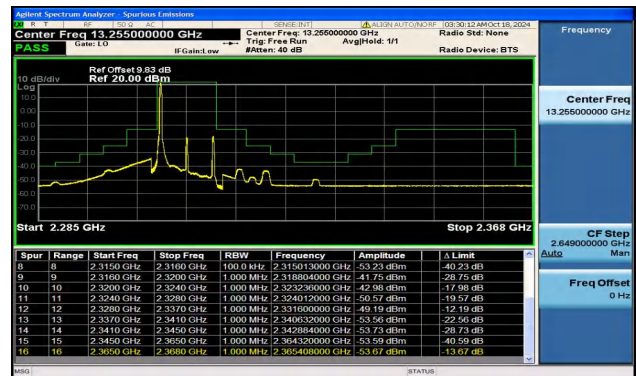
Band40_10MHz_QPSK_38750_1RB#0



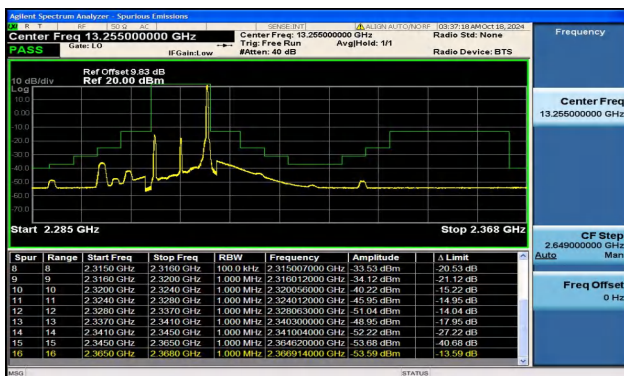
Band40_10MHz_QPSK_38750_1RB#49



Band40_10MHz_QPSK_38750_50RB#0



Band40_10MHz_16QAM_38750_1RB#0



Band40_10MHz_16QAM_38750_1RB#49