

Appendix for Band 40(2305-2315MHz)

Product Name: Rugged Phone

Model No: MDT661

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	23.44	PASS
Band40	5MHz	QPSK	38725	1RB#12	23.60	PASS
Band40	5MHz	QPSK	38725	1RB#24	23.42	PASS
Band40	5MHz	QPSK	38725	12RB#0	22.35	PASS
Band40	5MHz	QPSK	38725	12RB#6	22.34	PASS
Band40	5MHz	QPSK	38725	12RB#13	22.39	PASS
Band40	5MHz	QPSK	38725	25RB#0	22.37	PASS
Band40	5MHz	QPSK	38750	1RB#0	23.44	PASS
Band40	5MHz	QPSK	38750	1RB#12	23.57	PASS
Band40	5MHz	QPSK	38750	1RB#24	23.43	PASS
Band40	5MHz	QPSK	38750	12RB#0	22.39	PASS
Band40	5MHz	QPSK	38750	12RB#6	22.35	PASS
Band40	5MHz	QPSK	38750	12RB#13	22.42	PASS
Band40	5MHz	QPSK	38750	25RB#0	22.35	PASS
Band40	5MHz	QPSK	38775	1RB#0	23.44	PASS
Band40	5MHz	QPSK	38775	1RB#12	23.59	PASS
Band40	5MHz	QPSK	38775	1RB#24	23.46	PASS
Band40	5MHz	QPSK	38775	12RB#0	22.43	PASS
Band40	5MHz	QPSK	38775	12RB#6	22.36	PASS
Band40	5MHz	QPSK	38775	12RB#13	22.41	PASS
Band40	5MHz	QPSK	38775	25RB#0	22.38	PASS
Band40	5MHz	16QAM	38725	1RB#0	22.33	PASS
Band40	5MHz	16QAM	38725	1RB#12	22.47	PASS
Band40	5MHz	16QAM	38725	1RB#24	22.28	PASS
Band40	5MHz	16QAM	38725	12RB#0	21.29	PASS
Band40	5MHz	16QAM	38725	12RB#6	21.30	PASS
Band40	5MHz	16QAM	38725	12RB#13	21.40	PASS
Band40	5MHz	16QAM	38725	25RB#0	21.43	PASS
Band40	5MHz	16QAM	38750	1RB#0	22.31	PASS
Band40	5MHz	16QAM	38750	1RB#12	22.40	PASS
Band40	5MHz	16QAM	38750	1RB#24	22.34	PASS

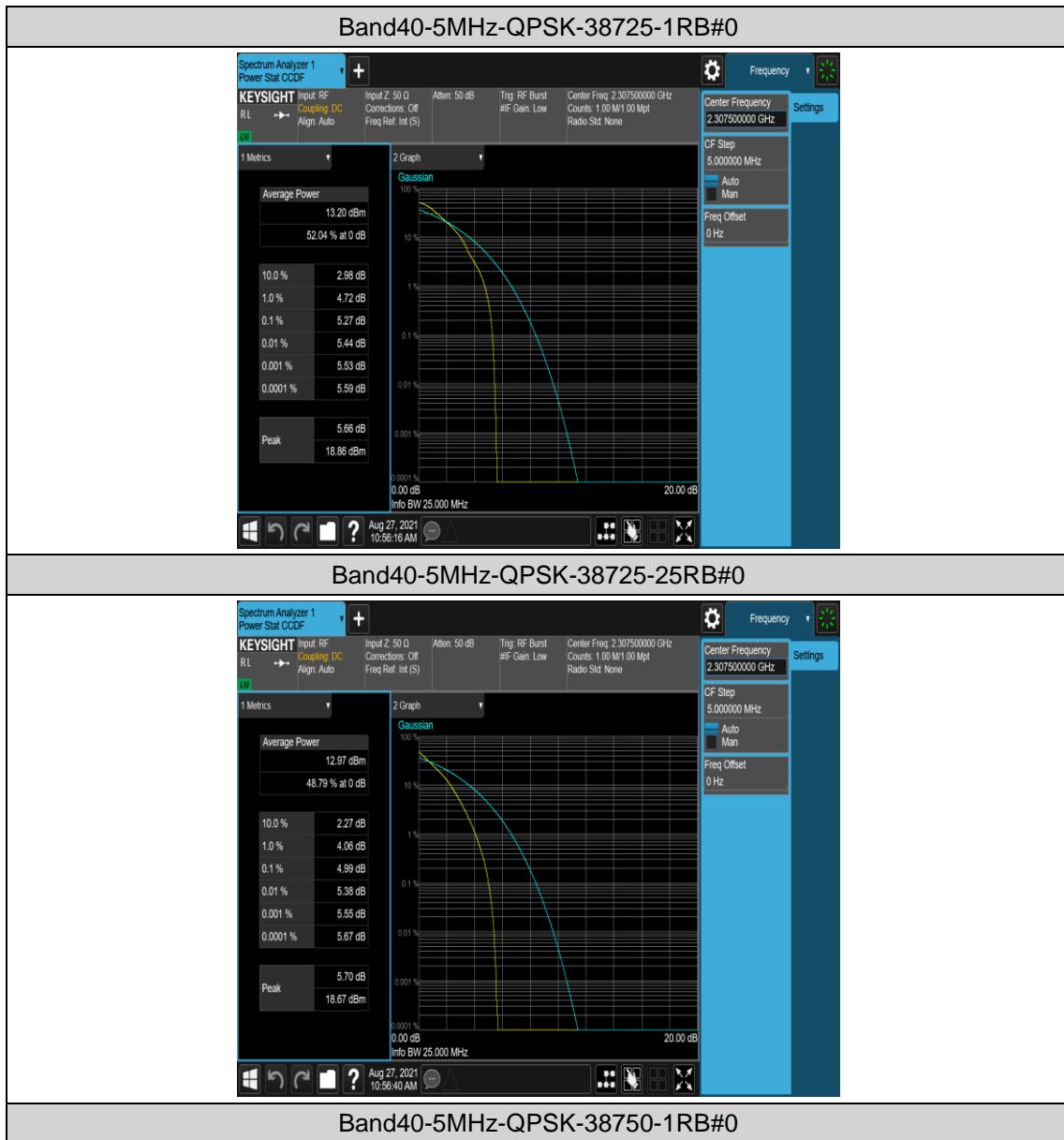
Band40	5MHz	16QAM	38750	12RB#0	21.35	PASS
Band40	5MHz	16QAM	38750	12RB#6	21.33	PASS
Band40	5MHz	16QAM	38750	12RB#13	21.38	PASS
Band40	5MHz	16QAM	38750	25RB#0	21.38	PASS
Band40	5MHz	16QAM	38775	1RB#0	22.40	PASS
Band40	5MHz	16QAM	38775	1RB#12	22.56	PASS
Band40	5MHz	16QAM	38775	1RB#24	22.49	PASS
Band40	5MHz	16QAM	38775	12RB#0	21.43	PASS
Band40	5MHz	16QAM	38775	12RB#6	21.33	PASS
Band40	5MHz	16QAM	38775	12RB#13	21.39	PASS
Band40	5MHz	16QAM	38775	25RB#0	21.40	PASS
Band40	10MHz	QPSK	38750	1RB#0	23.64	PASS
Band40	10MHz	QPSK	38750	1RB#24	23.86	PASS
Band40	10MHz	QPSK	38750	1RB#49	23.67	PASS
Band40	10MHz	QPSK	38750	25RB#0	22.47	PASS
Band40	10MHz	QPSK	38750	25RB#12	22.48	PASS
Band40	10MHz	QPSK	38750	25RB#25	22.48	PASS
Band40	10MHz	QPSK	38750	50RB#0	22.42	PASS
Band40	10MHz	16QAM	38750	1RB#0	22.38	PASS
Band40	10MHz	16QAM	38750	1RB#24	22.59	PASS
Band40	10MHz	16QAM	38750	1RB#49	22.37	PASS
Band40	10MHz	16QAM	38750	25RB#0	21.46	PASS
Band40	10MHz	16QAM	38750	25RB#12	21.43	PASS
Band40	10MHz	16QAM	38750	25RB#25	21.51	PASS
Band40	10MHz	16QAM	38750	50RB#0	21.48	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	5.27	13	PASS
Band40	5MHz	QPSK	38725	25RB#0	4.99	13	PASS
Band40	5MHz	QPSK	38750	1RB#0	4.72	13	PASS
Band40	5MHz	QPSK	38750	25RB#0	5.00	13	PASS
Band40	5MHz	QPSK	38775	1RB#0	4.65	13	PASS
Band40	5MHz	QPSK	38775	25RB#0	4.95	13	PASS
Band40	5MHz	16QAM	38725	1RB#0	6.01	13	PASS
Band40	5MHz	16QAM	38725	25RB#0	5.75	13	PASS
Band40	5MHz	16QAM	38750	1RB#0	5.55	13	PASS
Band40	5MHz	16QAM	38750	25RB#0	5.64	13	PASS
Band40	5MHz	16QAM	38775	1RB#0	5.26	13	PASS
Band40	5MHz	16QAM	38775	25RB#0	6.31	13	PASS
Band40	10MHz	QPSK	38750	1RB#0	4.78	13	PASS
Band40	10MHz	QPSK	38750	50RB#0	4.99	13	PASS
Band40	10MHz	16QAM	38750	1RB#0	6.16	13	PASS
Band40	10MHz	16QAM	38750	50RB#0	5.70	13	PASS

Test Graphs





Band40-5MHz-QPSK-38750-25RB#0



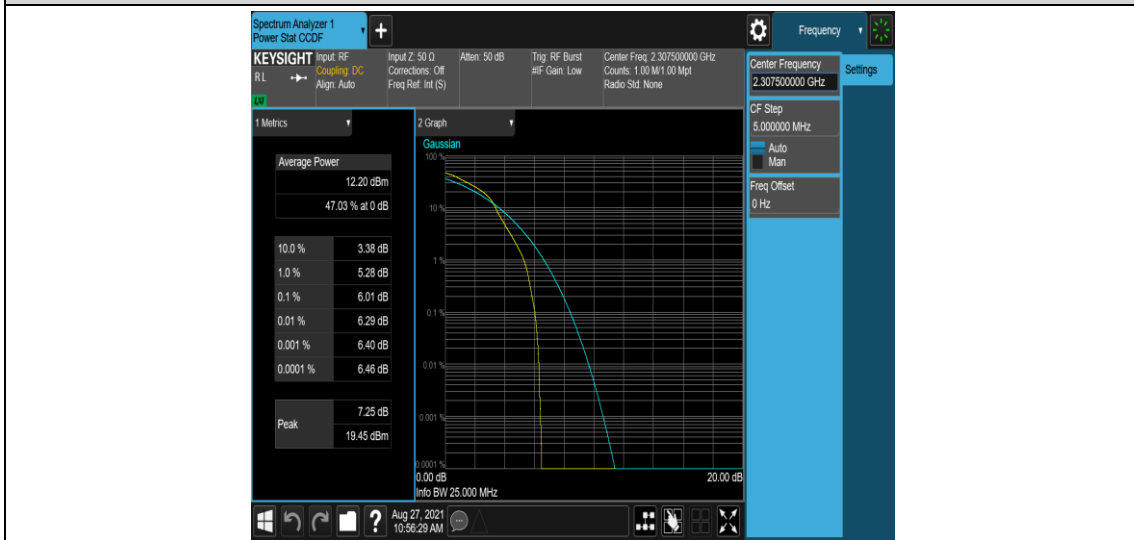
Band40-5MHz-QPSK-38775-1RB#0



Band40-5MHz-QPSK-38775-25RB#0



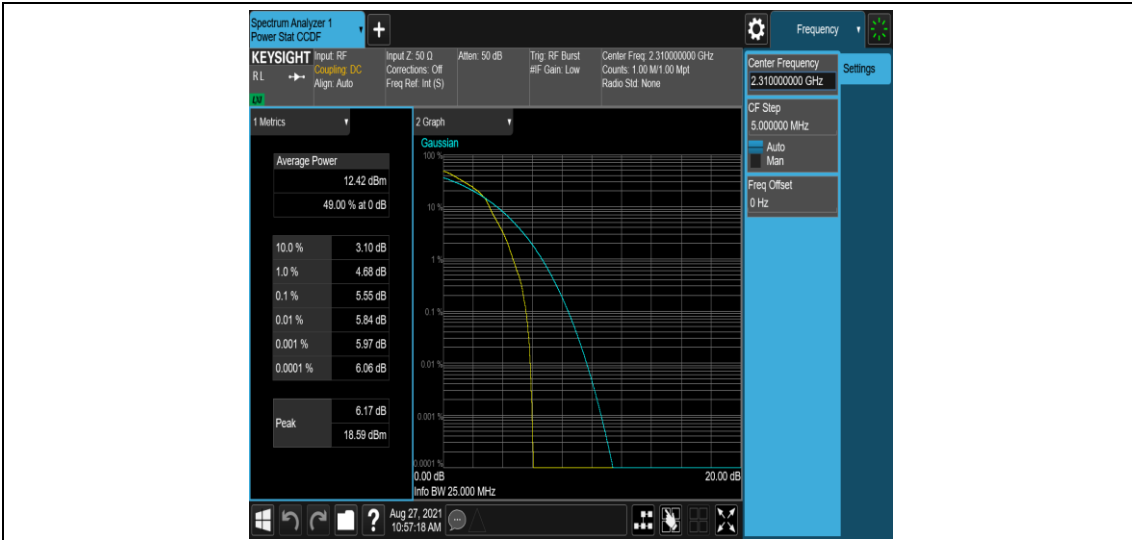
Band40-5MHz-16QAM-38725-1RB#0



Band40-5MHz-16QAM-38725-25RB#0



Band40-5MHz-16QAM-38750-1RB#0



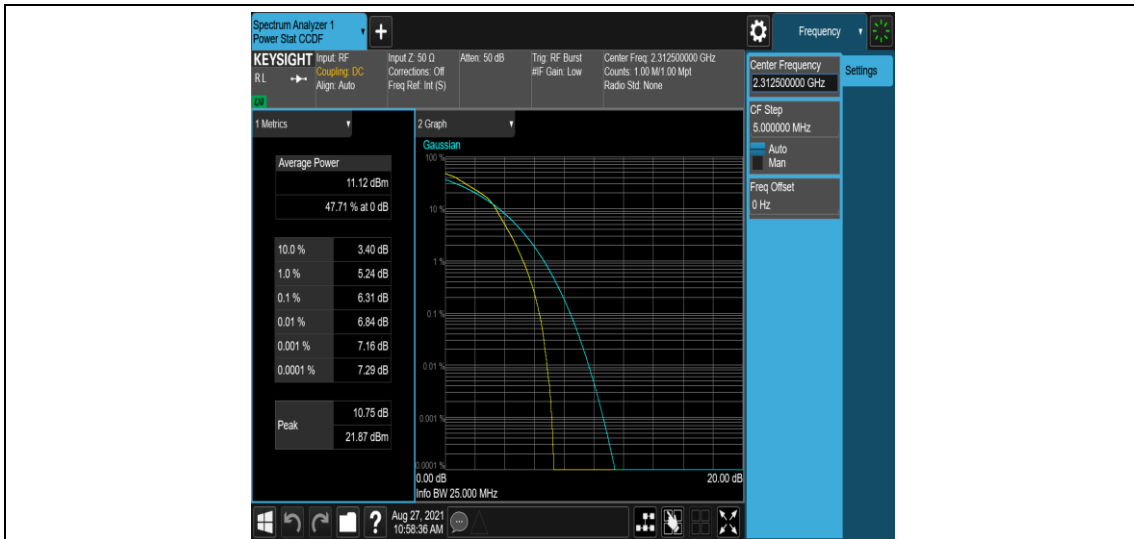
Band40-5MHz-16QAM-38750-25RB#0



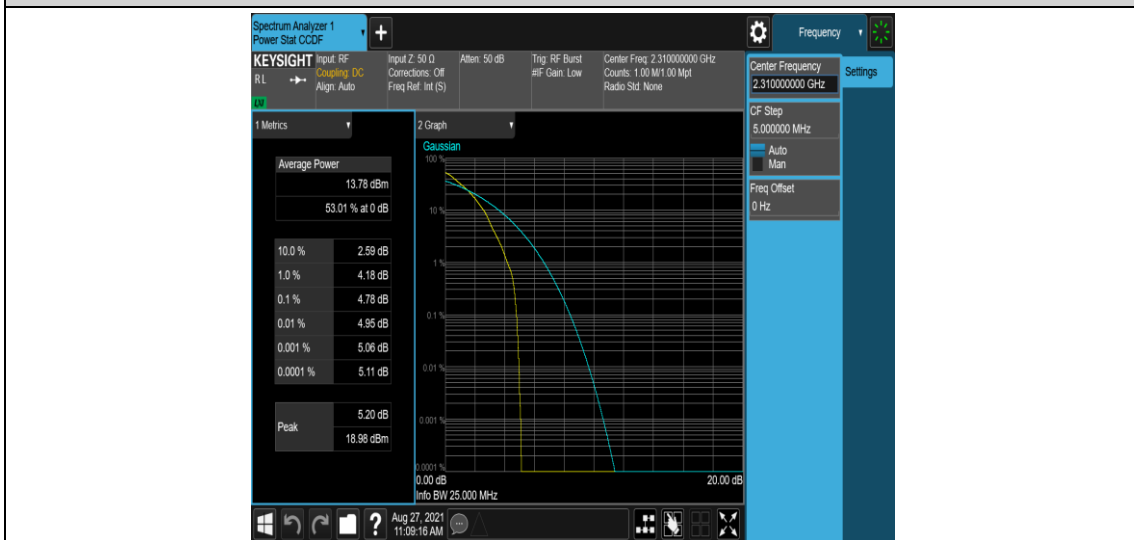
Band40-5MHz-16QAM-38775-1RB#0



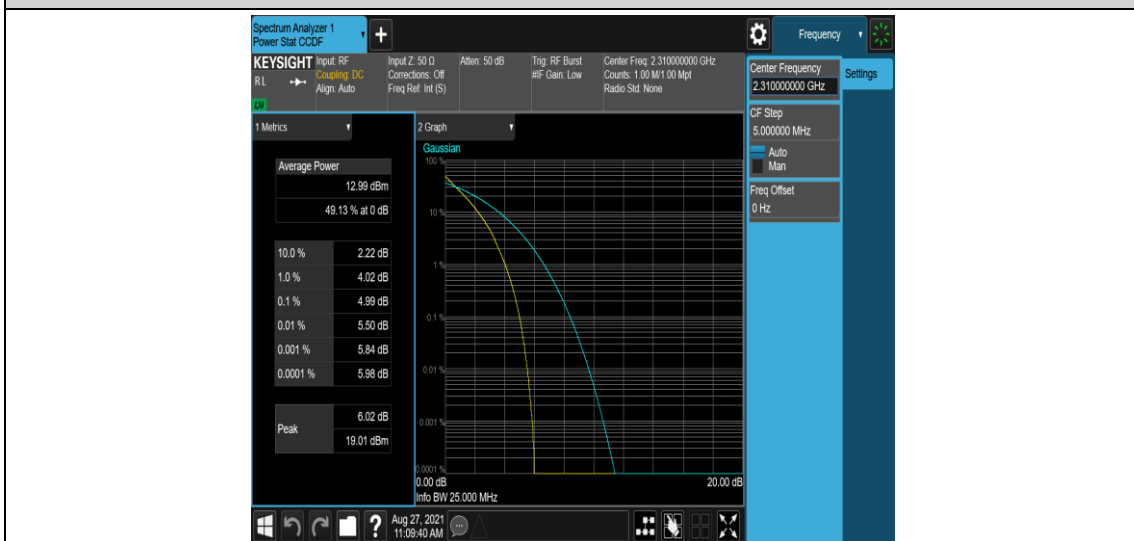
Band40-5MHz-16QAM-38775-25RB#0



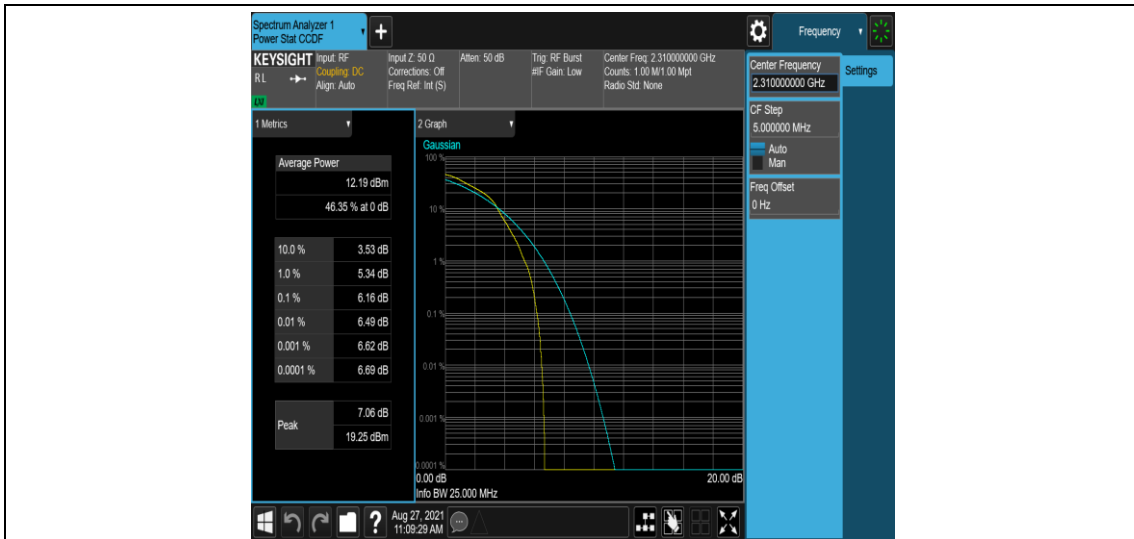
Band40-10MHz-QPSK-38750-1RB#0



Band40-10MHz-QPSK-38750-50RB#0



Band40-10MHz-16QAM-38750-1RB#0



Band40-10MHz-16QAM-38750-50RB#0

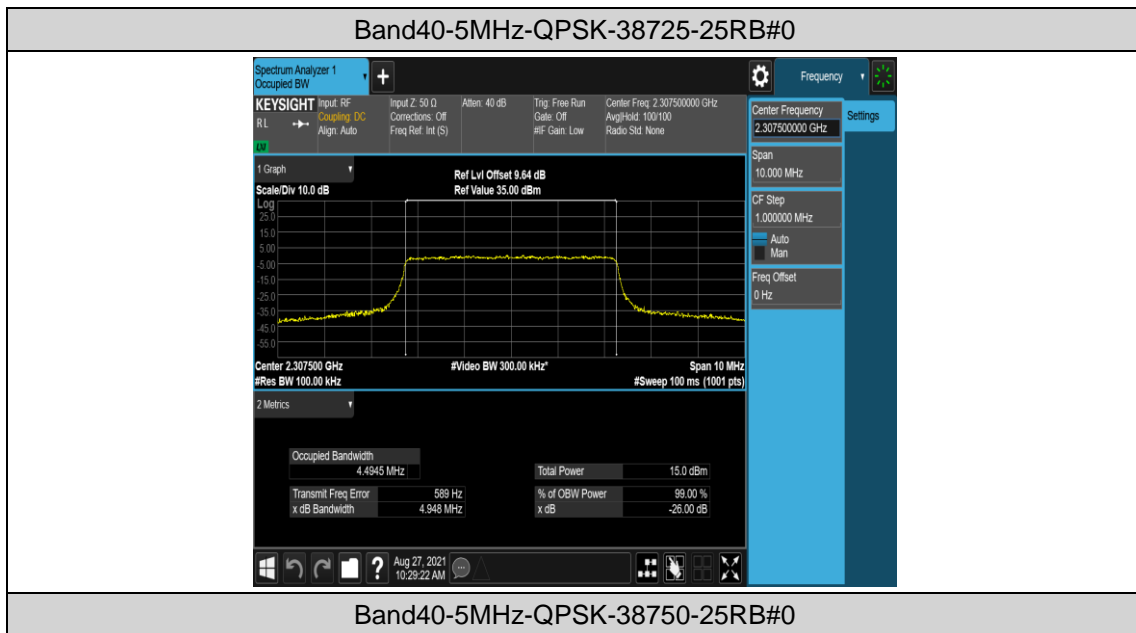


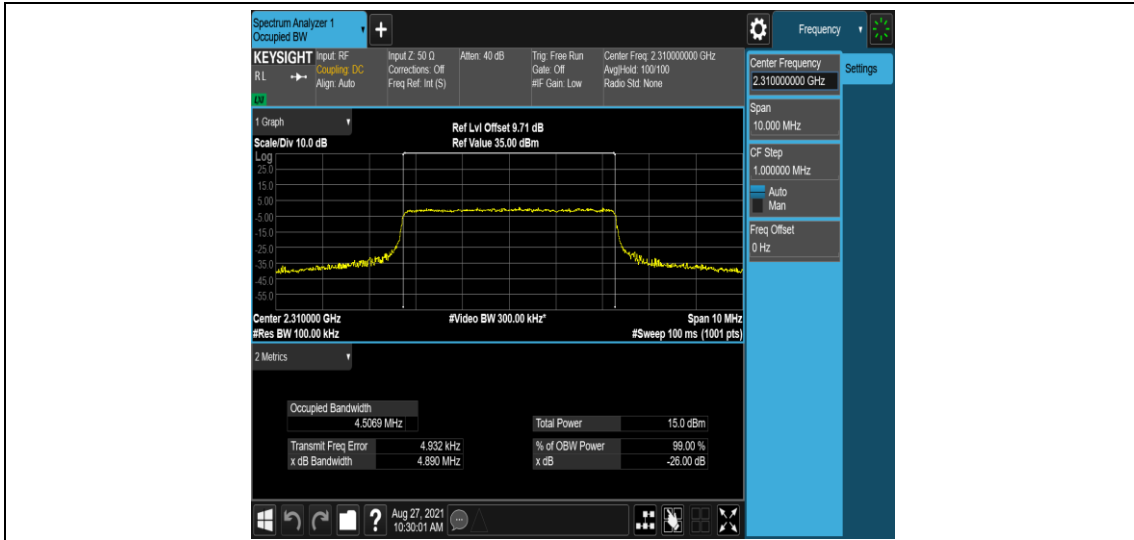
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

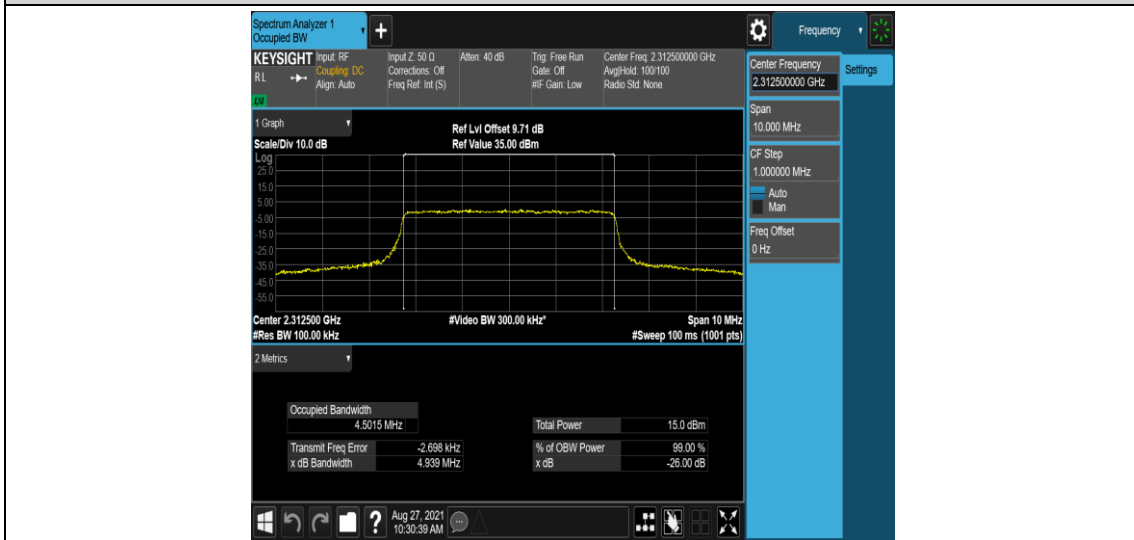
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40	5MHz	QPSK	38725	25RB#0	4.4945	4.948	PASS
Band40	5MHz	QPSK	38750	25RB#0	4.5069	4.890	PASS
Band40	5MHz	QPSK	38775	25RB#0	4.5015	4.939	PASS
Band40	5MHz	16QAM	38725	25RB#0	4.4954	4.943	PASS
Band40	5MHz	16QAM	38750	25RB#0	4.5028	4.855	PASS
Band40	5MHz	16QAM	38775	25RB#0	4.4932	4.975	PASS
Band40	10MHz	QPSK	38750	50RB#0	8.9739	9.523	PASS
Band40	10MHz	16QAM	38750	50RB#0	8.9692	9.521	PASS

Test Graphs

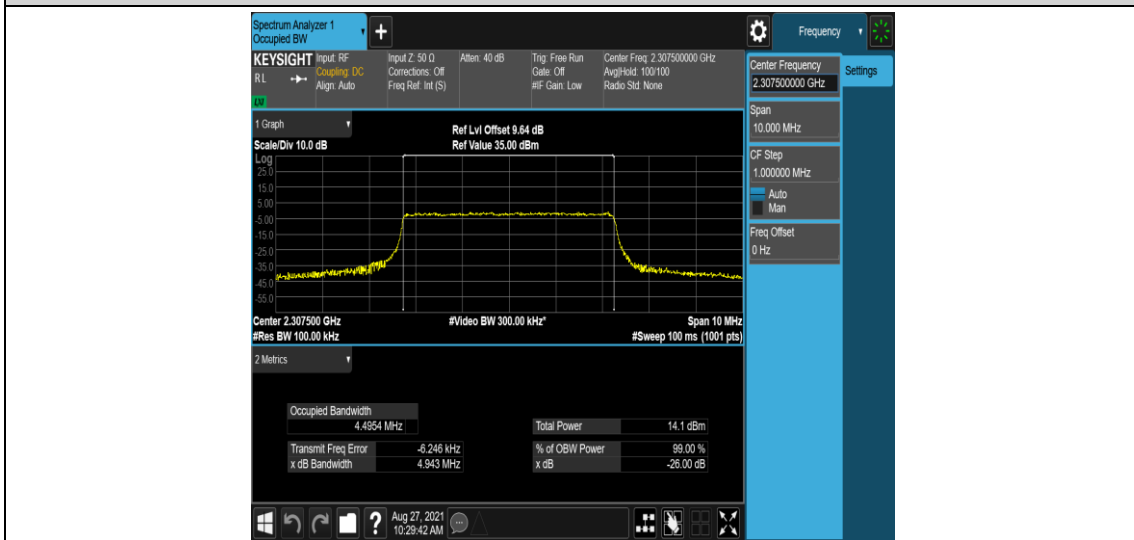




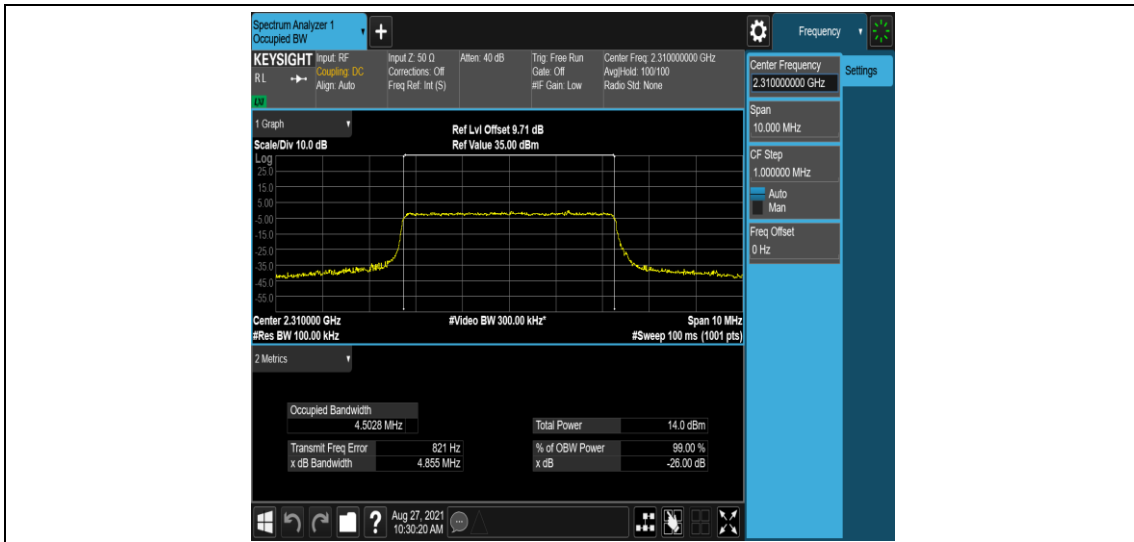
Band40-5MHz-QPSK-38775-25RB#0



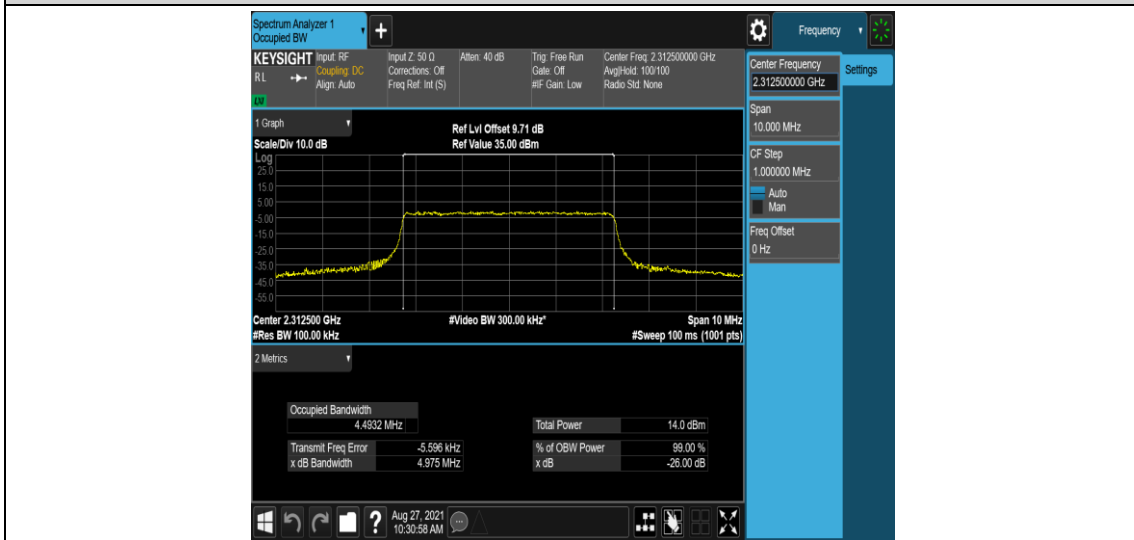
Band40-5MHz-16QAM-38725-25RB#0



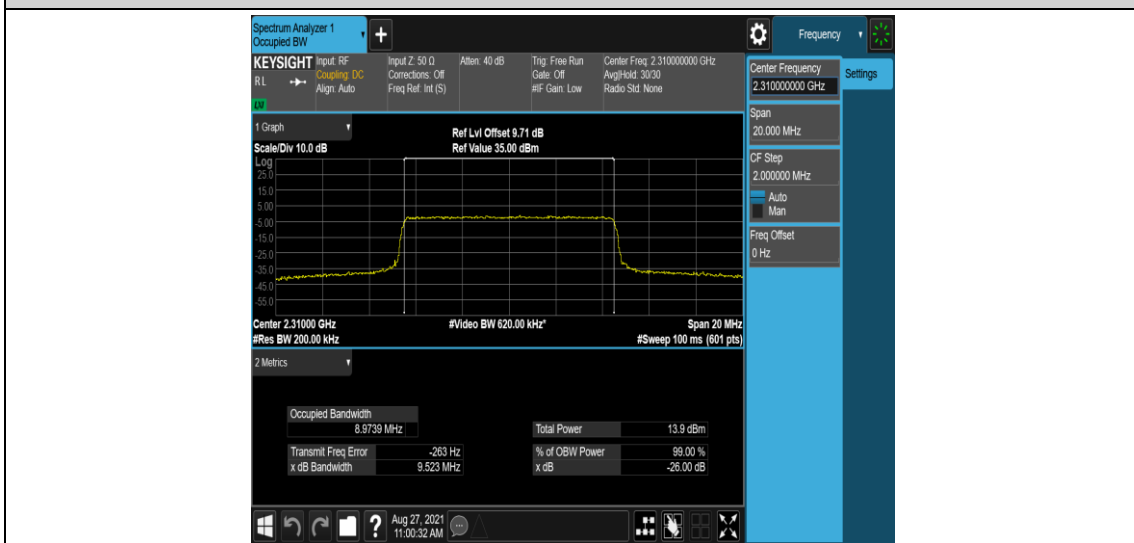
Band40-5MHz-16QAM-38750-25RB#0



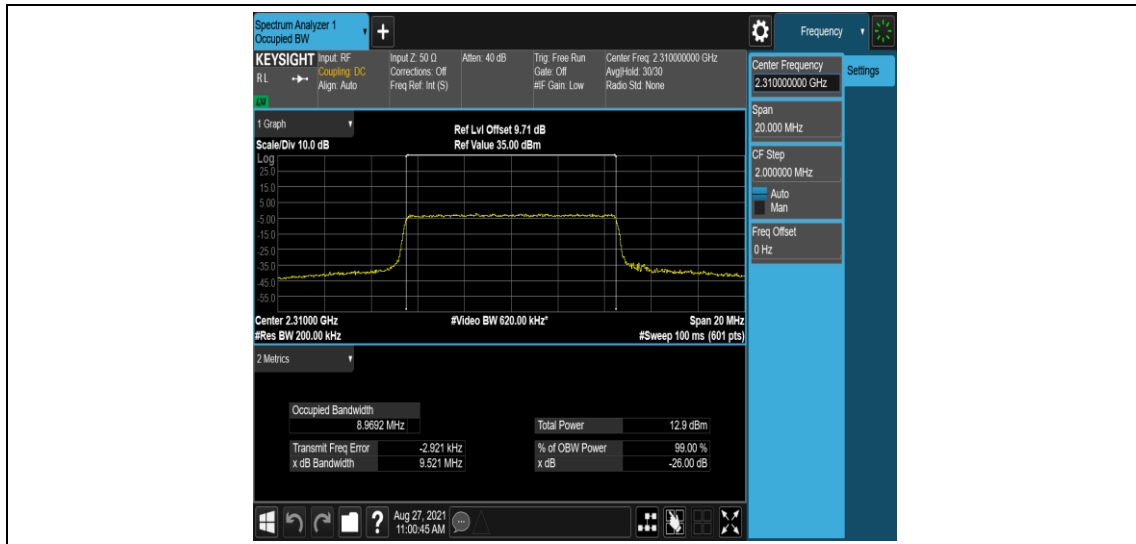
Band40-5MHz-16QAM-38775-25RB#0



Band40-10MHz-QPSK-38750-50RB#0



Band40-10MHz-16QAM-38750-50RB#0

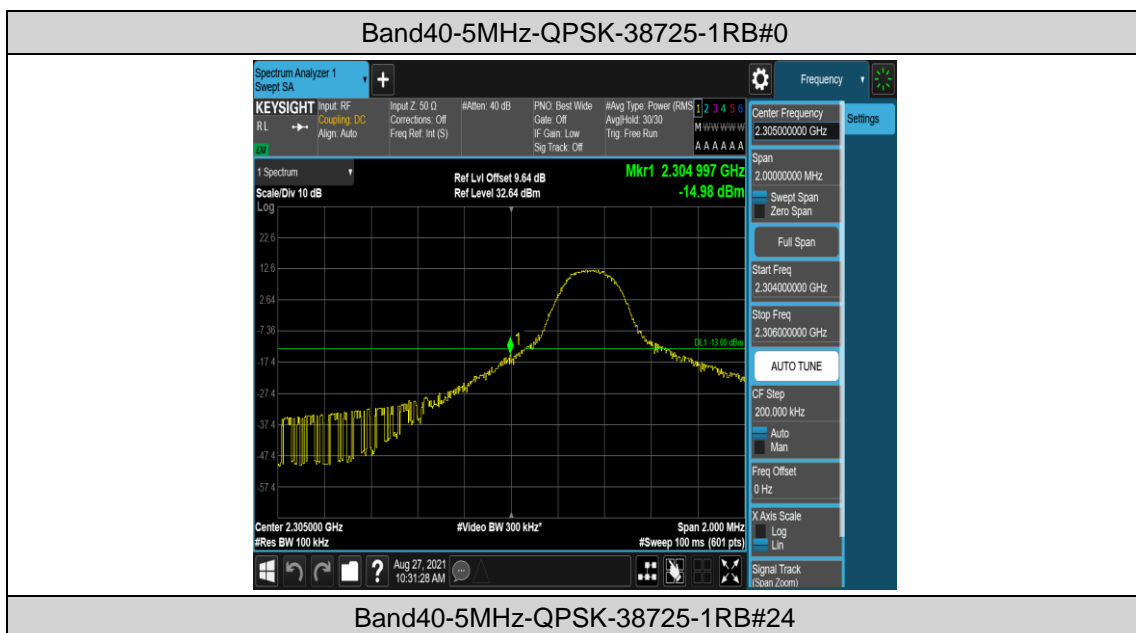


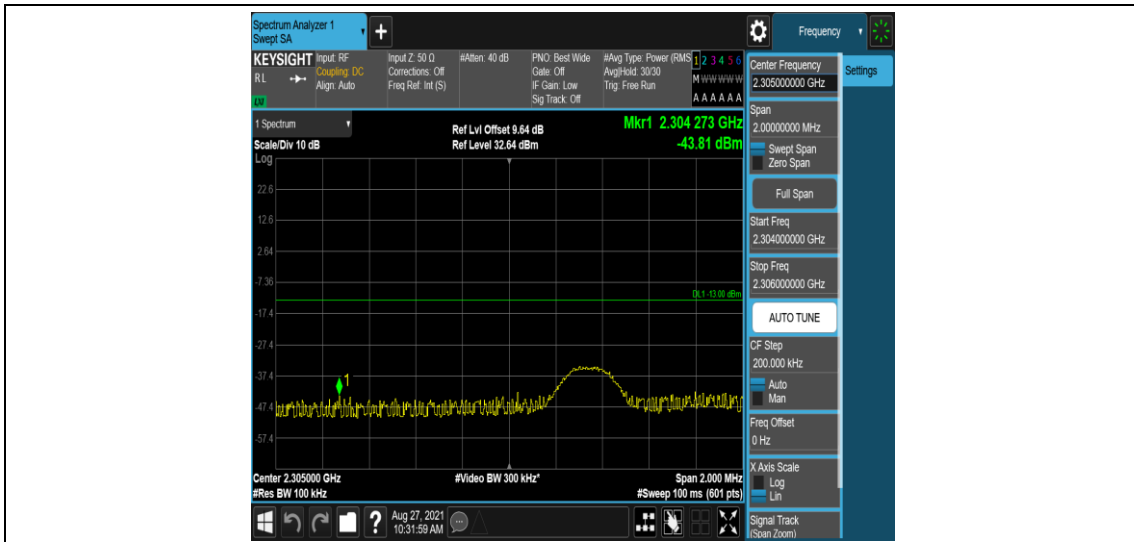
Appendix D: Band Edge

Test Result

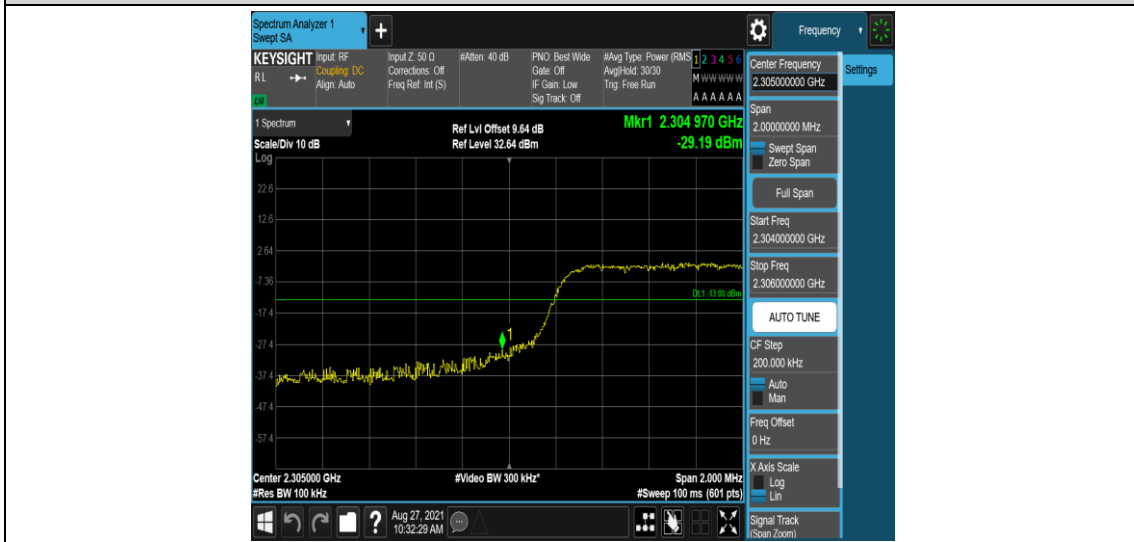
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	-14.98	PASS
Band40	5MHz	QPSK	38725	1RB#24	-43.81	PASS
Band40	5MHz	QPSK	38725	25RB#0	-29.19	PASS
Band40	5MHz	QPSK	38775	1RB#0	-43.26	PASS
Band40	5MHz	QPSK	38775	1RB#24	-15.37	PASS
Band40	5MHz	QPSK	38775	25RB#0	-28.81	PASS
Band40	5MHz	16QAM	38725	1RB#0	-17.50	PASS
Band40	5MHz	16QAM	38725	1RB#24	-44.35	PASS
Band40	5MHz	16QAM	38725	25RB#0	-31.73	PASS
Band40	5MHz	16QAM	38775	1RB#0	-42.59	PASS
Band40	5MHz	16QAM	38775	1RB#24	-16.67	PASS
Band40	5MHz	16QAM	38775	25RB#0	-30.70	PASS
Band40	10MHz	QPSK	38750	1RB#0	-18.35,-44.60	PASS
Band40	10MHz	QPSK	38750	1RB#49	-44.29,-21.00	PASS
Band40	10MHz	QPSK	38750	50RB#0	-33.02,-33.22	PASS
Band40	10MHz	16QAM	38750	1RB#0	-19.54,-44.46	PASS
Band40	10MHz	16QAM	38750	1RB#49	-44.84,-21.15	PASS
Band40	10MHz	16QAM	38750	50RB#0	-34.25,-33.58	PASS

Test Graphs





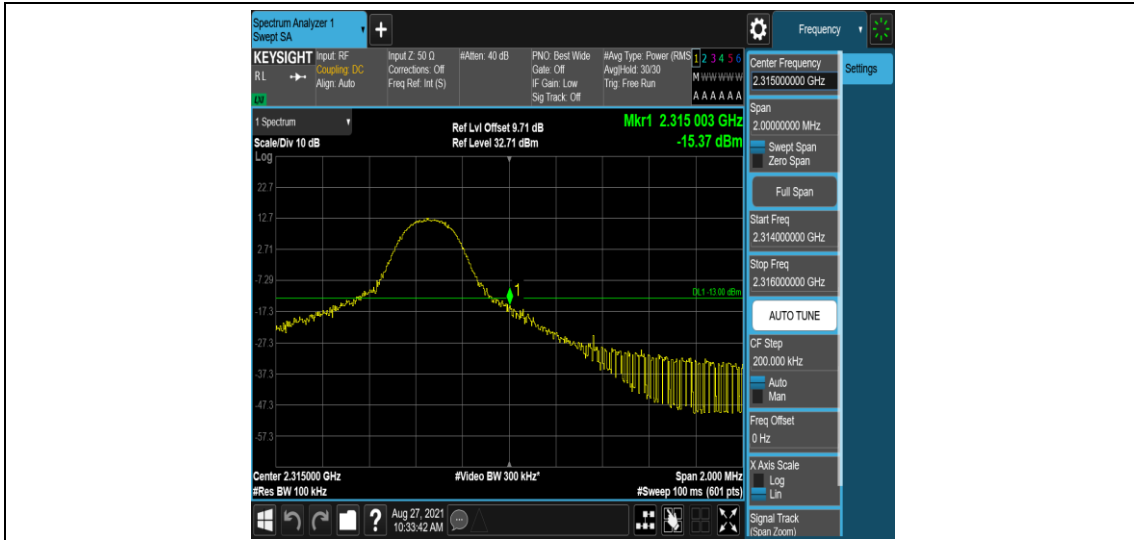
Band40-5MHz-QPSK-38725-25RB#0



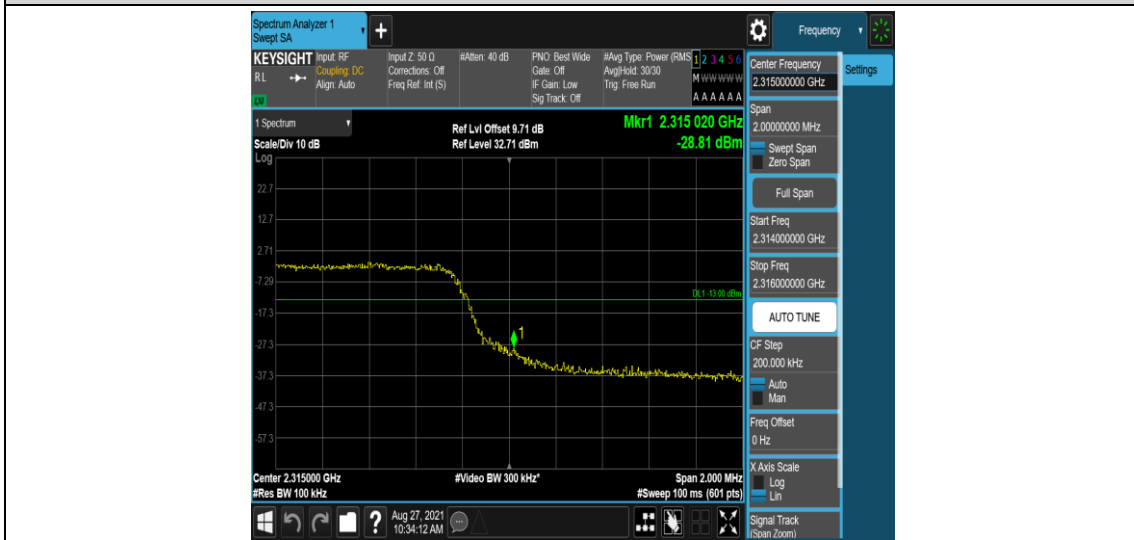
Band40-5MHz-QPSK-38775-1RB#0



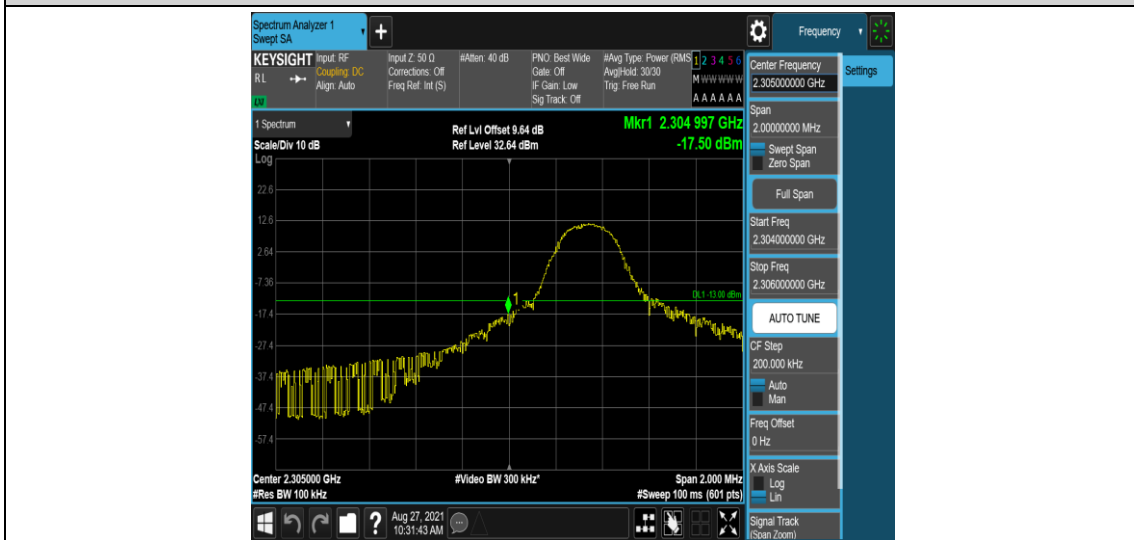
Band40-5MHz-QPSK-38775-1RB#24



Band40-5MHz-QPSK-38775-25RB#0



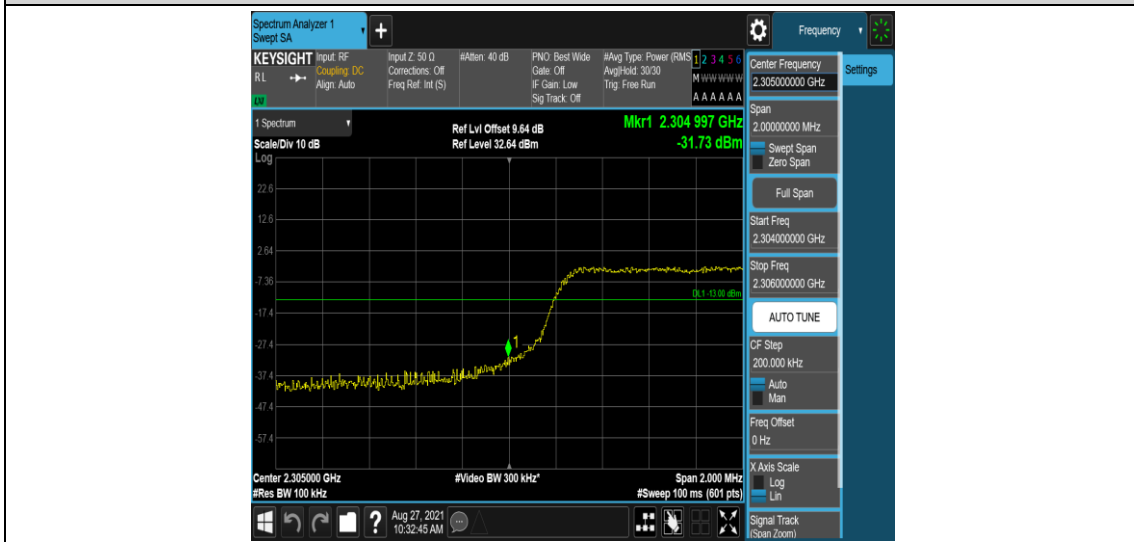
Band40-5MHz-16QAM-38725-1RB#0



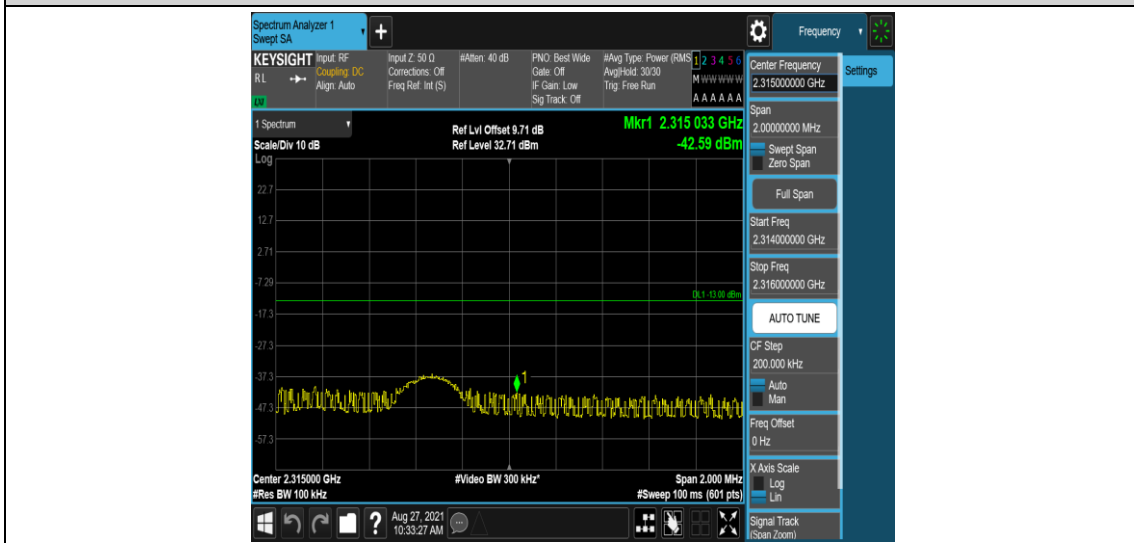
Band40-5MHz-16QAM-38725-1RB#24



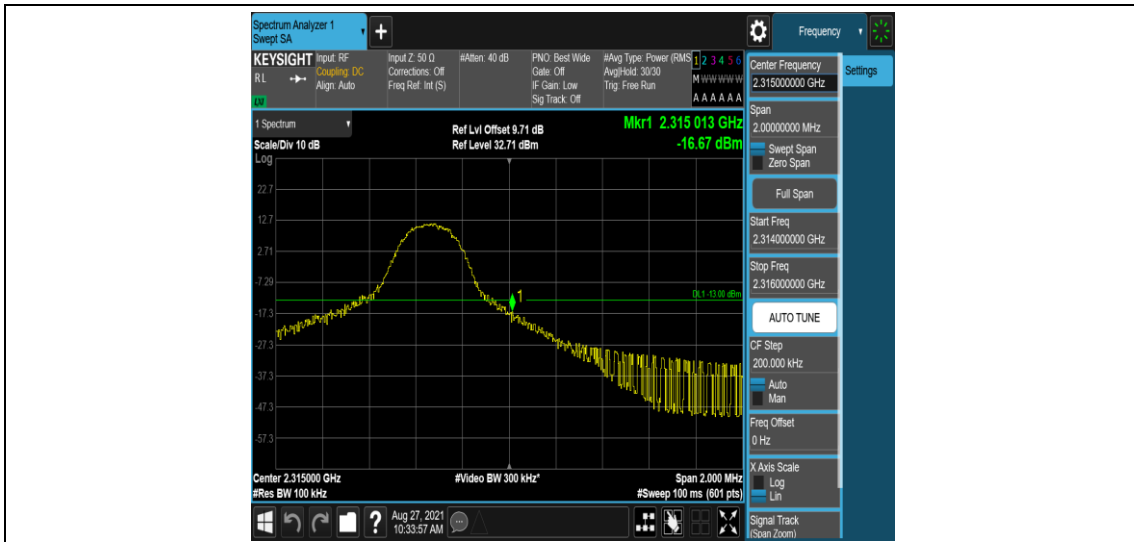
Band40-5MHz-16QAM-38725-25RB#0



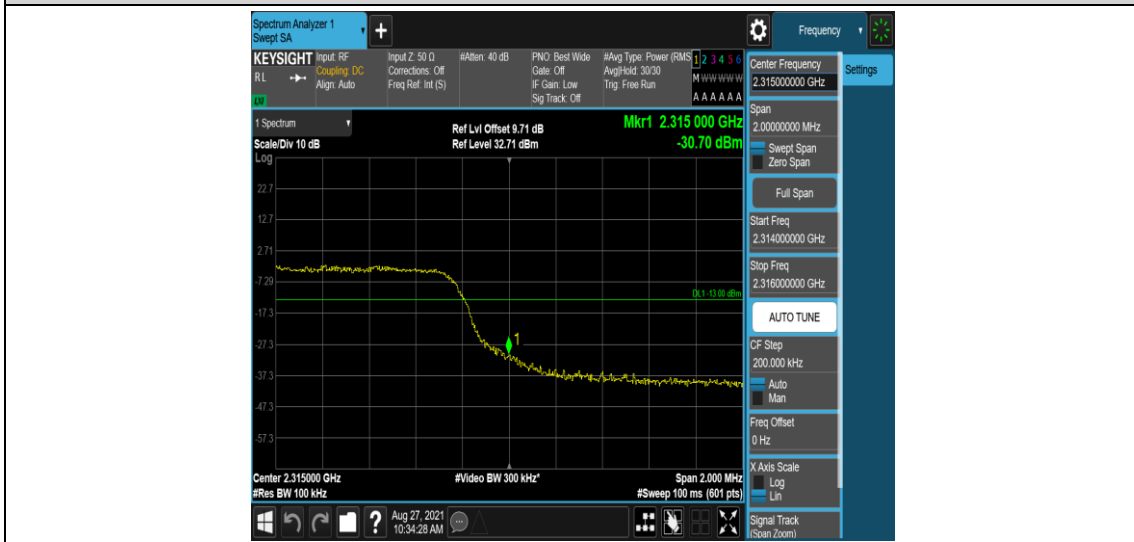
Band40-5MHz-16QAM-38775-1RB#0



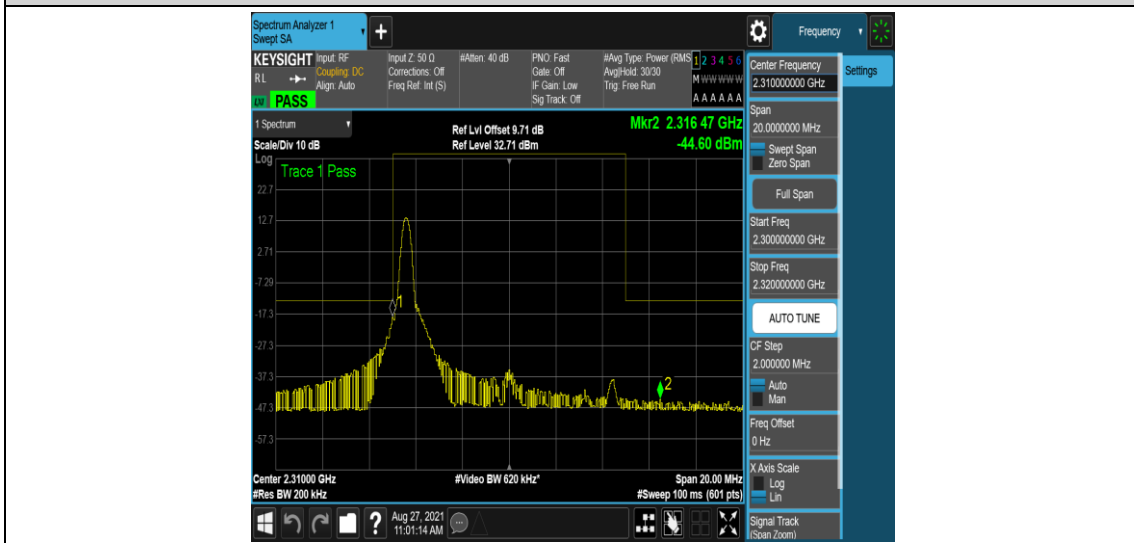
Band40-5MHz-16QAM-38775-1RB#24



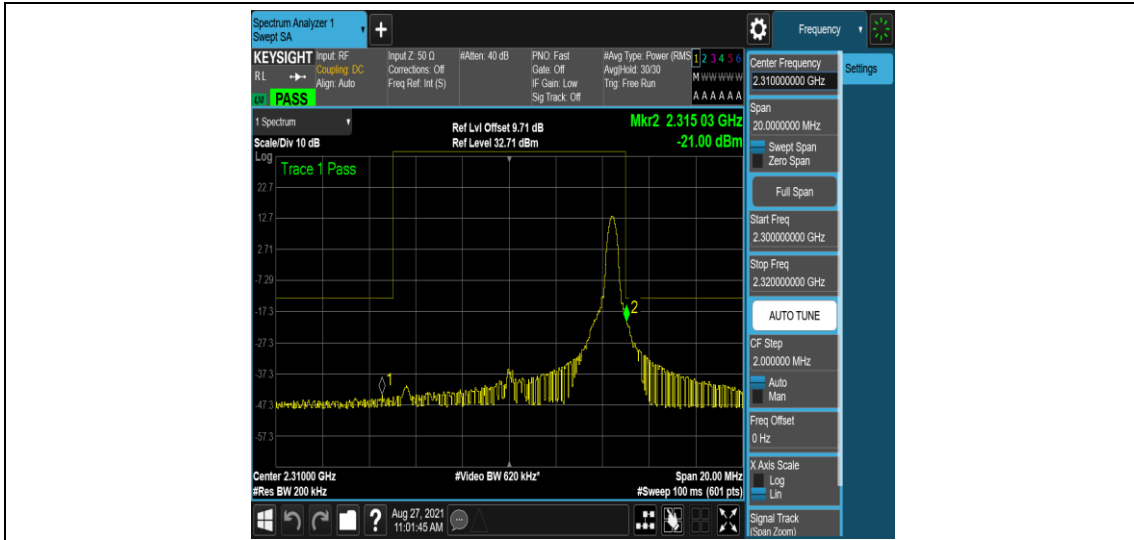
Band40-5MHz-16QAM-38775-25RB#0



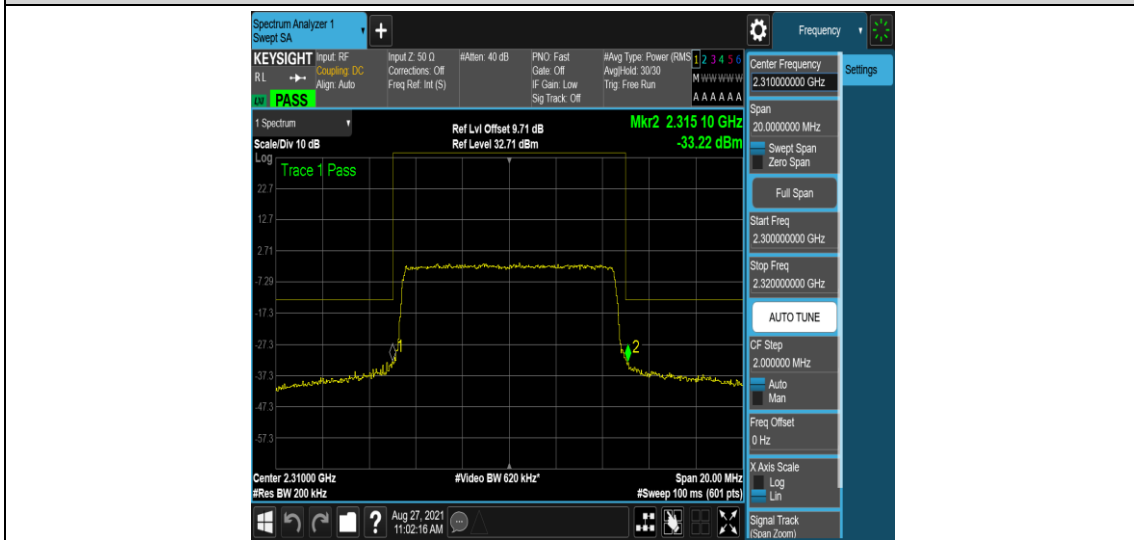
Band40-10MHz-QPSK-38750-1RB#0



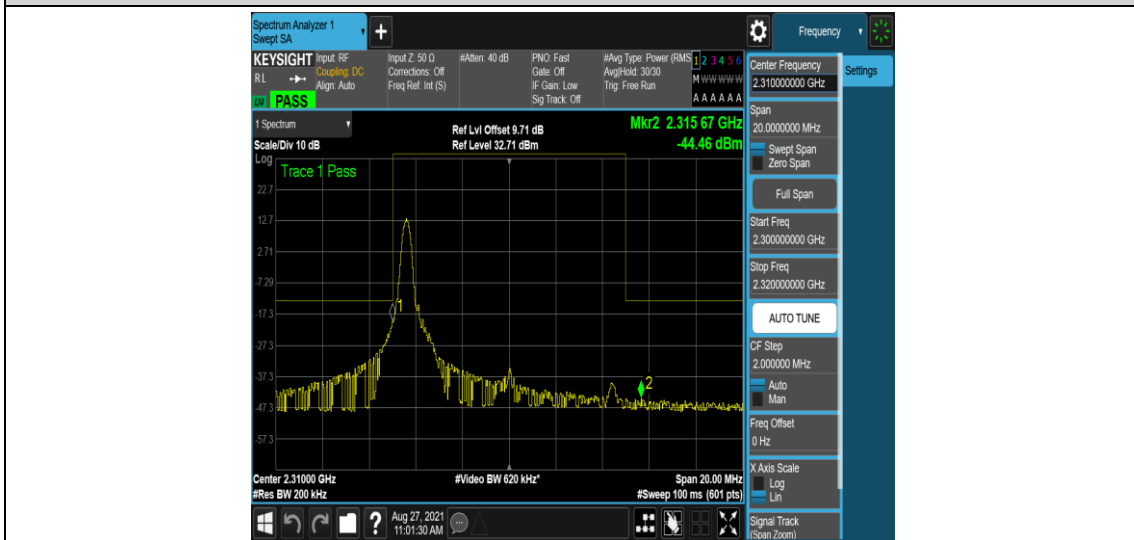
Band40-10MHz-QPSK-38750-1RB#49



Band40-10MHz-QPSK-38750-50RB#0



Band40-10MHz-16QAM-38750-1RB#0



Band40-10MHz-16QAM-38750-1RB#49



Band40-10MHz-16QAM-38750-50RB#0



Appendix E: Conducted Spurious Emission

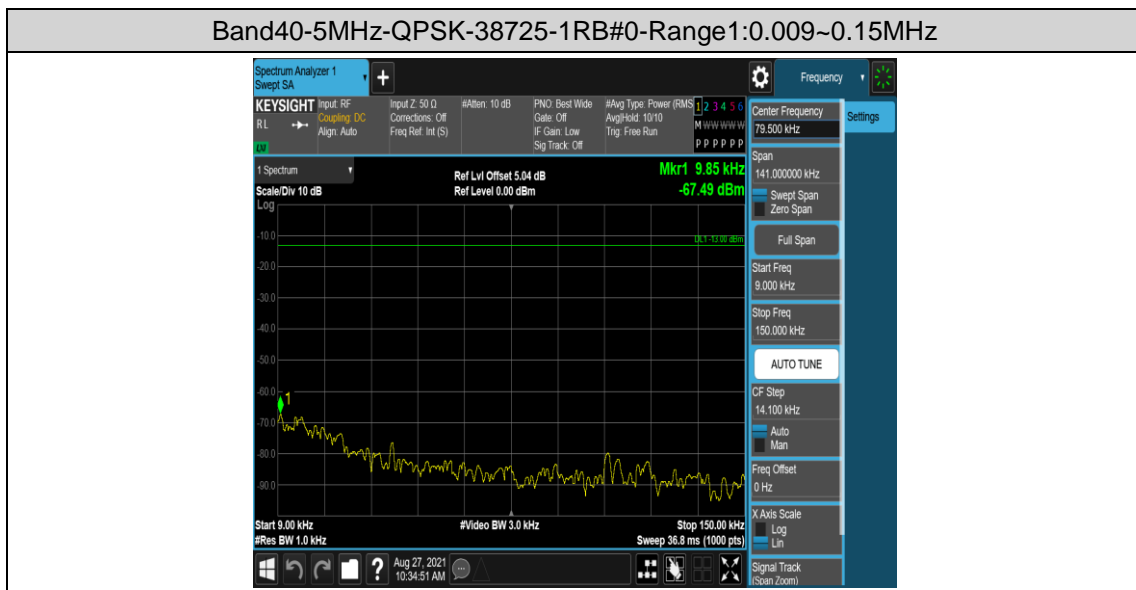
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band40	5MHz	QPSK	38725	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range2:0.15~30MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range3:30~1000MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range4:1000~2288MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range5:2288~2292MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range6:2292~2296MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range9:2320~2324MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range10:2324~2328MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range11:2328~2337MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range12:2337~2341MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range13:2341~2345MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range14:2360~2365MHz	PASS
Band40	5MHz	QPSK	38725	1RB#0	Range15:2365~26500MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range2:0.15~30MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range3:30~1000MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range4:1000~2288MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range5:2288~2292MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range6:2292~2296MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range7:2296~2300MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range9:2320~2324MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range10:2324~2328MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range11:2328~2337MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range12:2337~2341MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range13:2341~2345MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range14:2360~2365MHz	PASS
Band40	5MHz	QPSK	38750	1RB#0	Range15:2365~26500MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range2:0.15~30MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range3:30~1000MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range4:1000~2288MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range5:2288~2292MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range6:2292~2296MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range7:2296~2300MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range8:2300~2305MHz	PASS

Band40	5MHz	QPSK	38775	1RB#0	Range9:2320~2324MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range10:2324~2328MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range11:2328~2337MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range12:2337~2341MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range13:2341~2345MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range14:2360~2365MHz	PASS
Band40	5MHz	QPSK	38775	1RB#0	Range15:2365~26500MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range2:0.15~30MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range3:30~1000MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range4:1000~2288MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range5:2288~2292MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range6:2292~2296MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range9:2320~2324MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range10:2324~2328MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range11:2328~2337MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range12:2337~2341MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range13:2341~2345MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range14:2360~2365MHz	PASS
Band40	5MHz	16QAM	38725	1RB#0	Range15:2365~26500MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range2:0.15~30MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range3:30~1000MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range4:1000~2288MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range5:2288~2292MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range6:2292~2296MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range7:2296~2300MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range8:2300~2305MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range9:2320~2324MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range10:2324~2328MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range11:2328~2337MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range12:2337~2341MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range13:2341~2345MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range14:2360~2365MHz	PASS
Band40	5MHz	16QAM	38750	1RB#0	Range15:2365~26500MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range2:0.15~30MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range3:30~1000MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range4:1000~2288MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range5:2288~2292MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range6:2292~2296MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range7:2296~2300MHz	PASS

Band40	5MHz	16QAM	38775	1RB#0	Range8:2300~2305MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range10:2324~2328MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range11:2328~2337MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range12:2337~2341MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range13:2341~2345MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range14:2360~2365MHz	PASS
Band40	5MHz	16QAM	38775	1RB#0	Range15:2365~26500MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range2:0.15~30MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range3:30~1000MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range4:1000~2288MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range5:2288~2292MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range11:2328~2337MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range12:2337~2341MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range13:2341~2345MHz	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range14:2360~2365MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range1:0.009~0.15MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range2:0.15~30MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range3:30~1000MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range4:1000~2288MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range5:2288~2292MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range11:2328~2337MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range12:2337~2341MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range13:2341~2345MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range14:2360~2365MHz	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range15:2365~26500MHz	FAIL

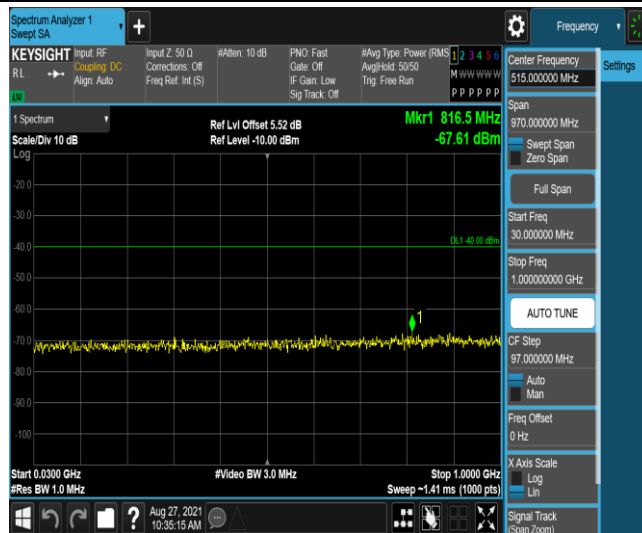
Test Graphs



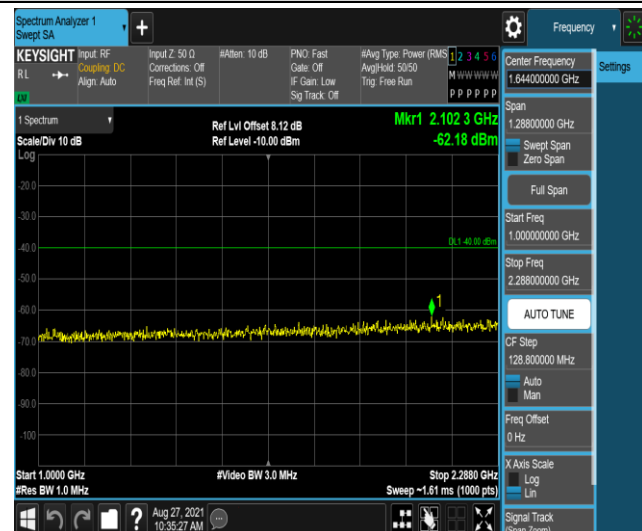
Band40-5MHz-QPSK-38725-1RB#0-Range2:0.15~30MHz



Band40-5MHz-QPSK-38725-1RB#0-Range3:30~1000MHz



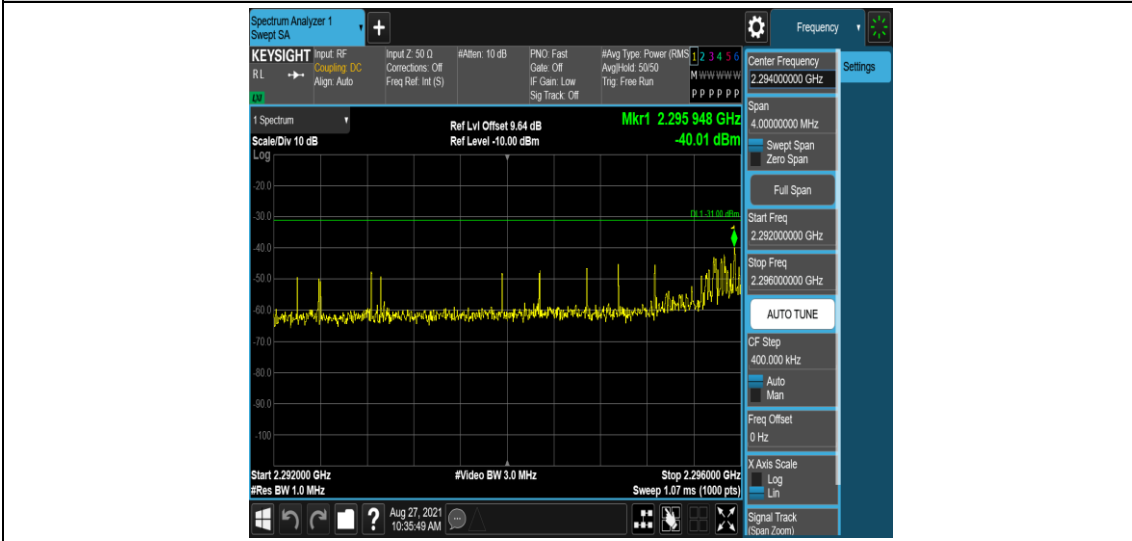
Band40-5MHz-QPSK-38725-1RB#0-Range4:1000~2288MHz



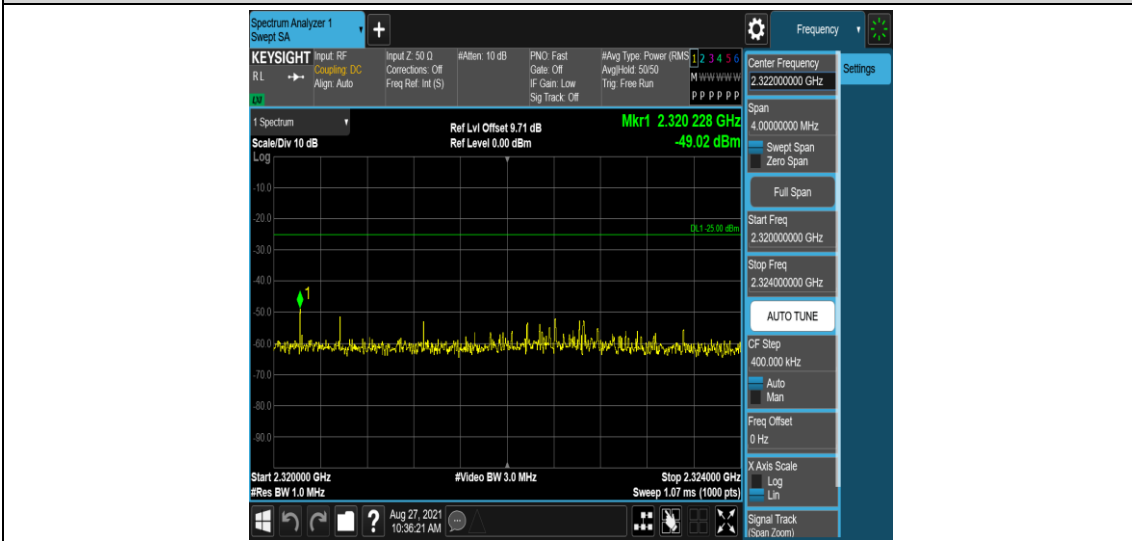
Band40-5MHz-QPSK-38725-1RB#0-Range5:2288~2292MHz



Band40-5MHz-QPSK-38725-1RB#0-Range6:2292~2296MHz



Band40-5MHz-QPSK-38725-1RB#0-Range9:2320~2324MHz



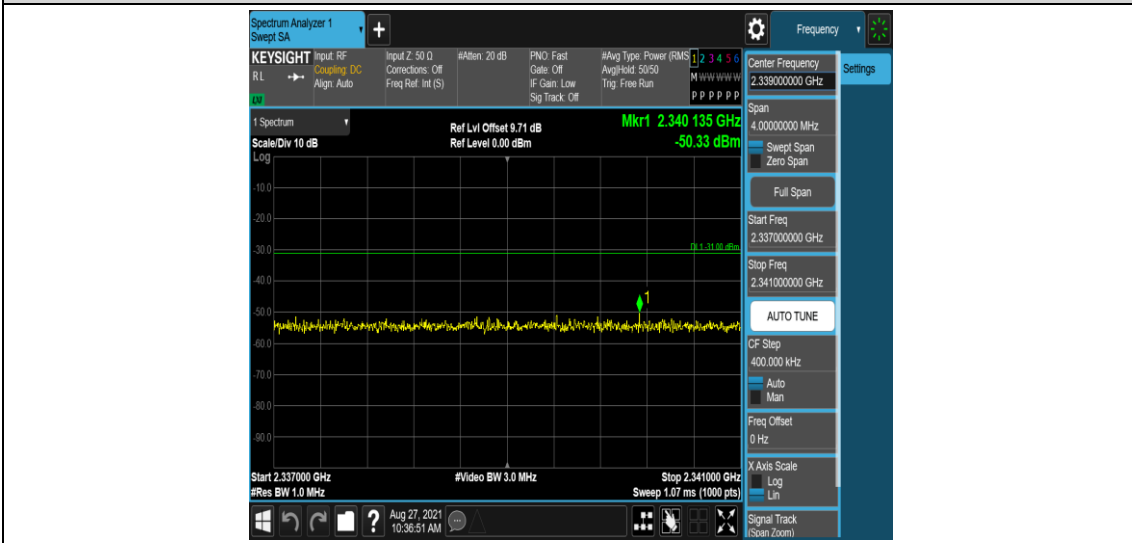
Band40-5MHz-QPSK-38725-1RB#0-Range10:2324~2328MHz



Band40-5MHz-QPSK-38725-1RB#0-Range11:2328~2337MHz



Band40-5MHz-QPSK-38725-1RB#0-Range12:2337~2341MHz



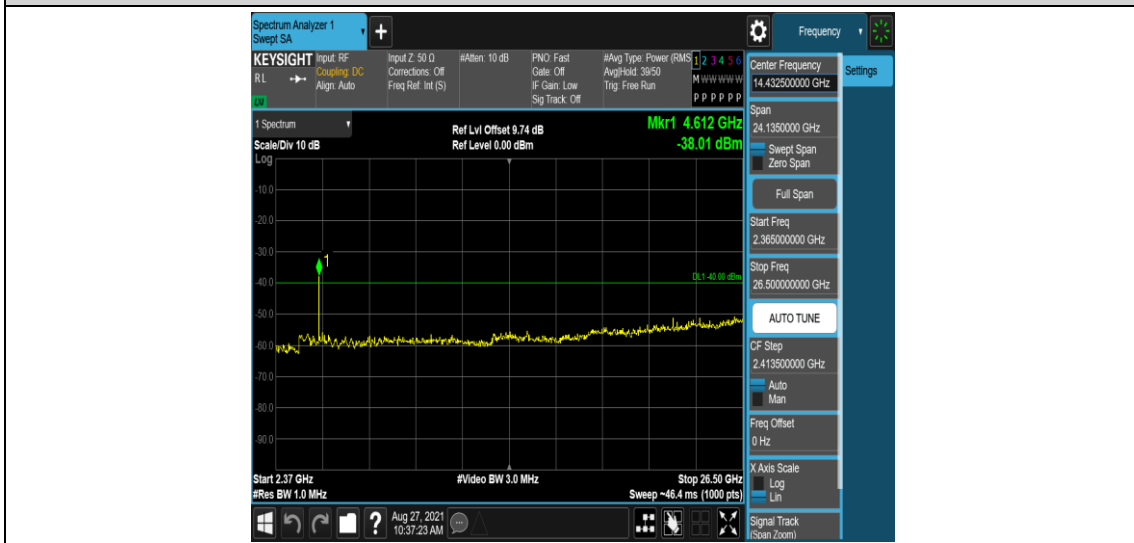
Band40-5MHz-QPSK-38725-1RB#0-Range13:2341~2345MHz



Band40-5MHz-QPSK-38725-1RB#0-Range14:2360~2365MHz



Band40-5MHz-QPSK-38725-1RB#0-Range15:2365~2650MHz



Band40-5MHz-QPSK-38750-1RB#0-Range1:0.009~0.15MHz