

## Appendix for Band 17

Product Name: 4G Vehicle GPS Tracker

Model No: JM-VL01

### Appendix A: Average Power Output Data

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.85	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.79	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.60	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.62	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.54	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.42	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.54	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.50	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.72	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.49	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.48	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.43	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.35	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.67	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.55	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.64	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.47	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.46	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.38	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.37	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.70	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.00	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.83	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.54	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.54	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

Band17	5MHz	16QAM	23755	12RB#13	21.38	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.69	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.81	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.80	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.64	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.34	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.33	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.32	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.53	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.02	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.07	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.23	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.33	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.32	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.33	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.36	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.57	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.53	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.63	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.58	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.60	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.37	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.44	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.41	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.32	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.39	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.58	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.57	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.45	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.33	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.65	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.44	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.55	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.33	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.48	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.47	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.29	PASS

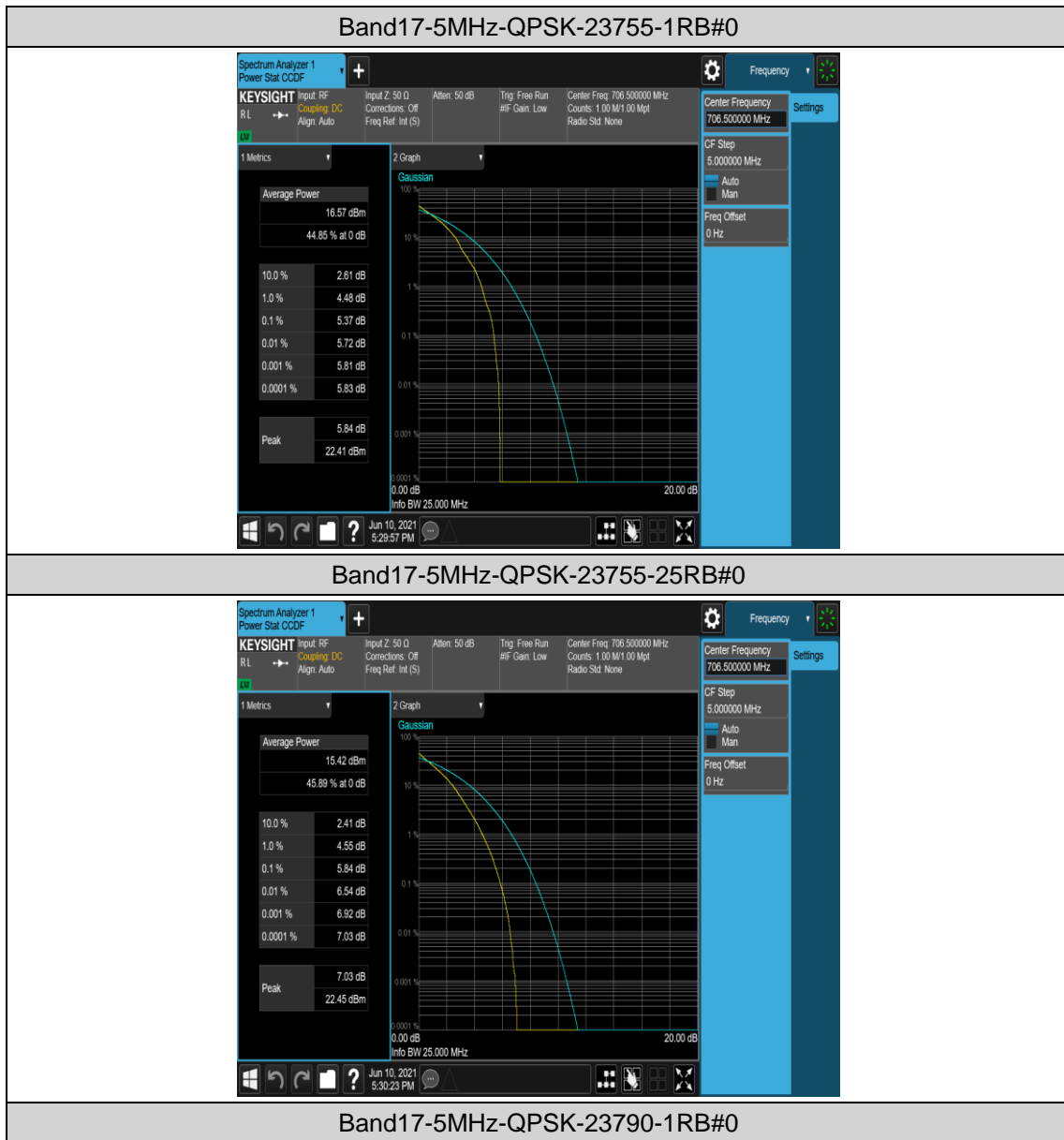
Band17	10MHz	16QAM	23780	1RB#0	22.22	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.14	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.25	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.67	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.67	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.54	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.42	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.66	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.47	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.42	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.40	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.39	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.32	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.50	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.08	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.86	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.85	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.51	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.47	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.51	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.51	PASS

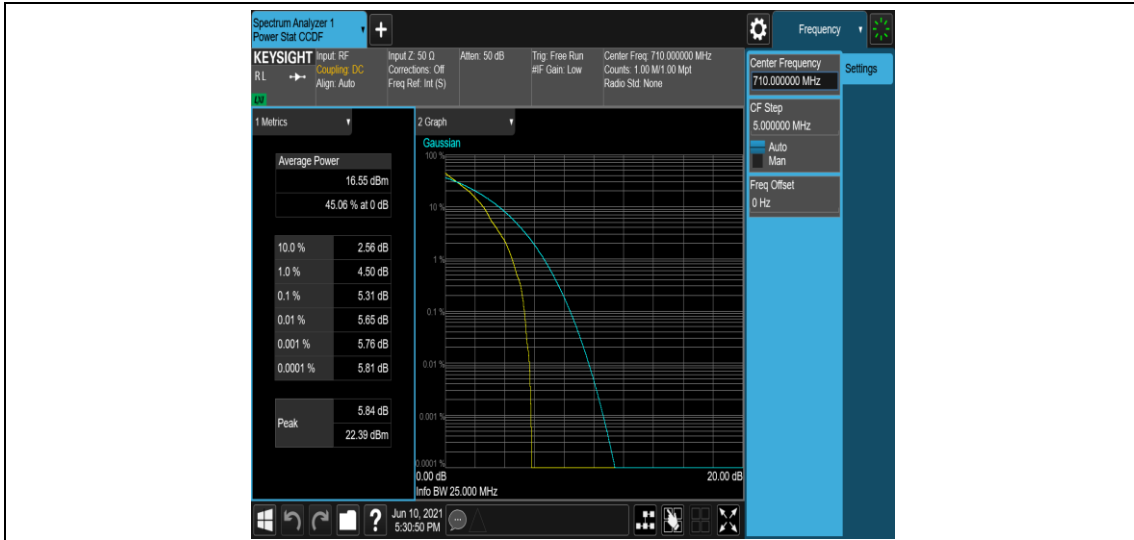
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.37	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.84	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.31	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.76	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.16	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.53	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	6.19	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.51	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.20	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.40	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	6.23	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.31	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.47	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.82	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.45	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.80	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.25	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.71	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	6.34	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.52	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	6.28	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.45	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.14	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.48	13	PASS

### Test Graphs





Band17-5MHz-QPSK-23790-25RB#0



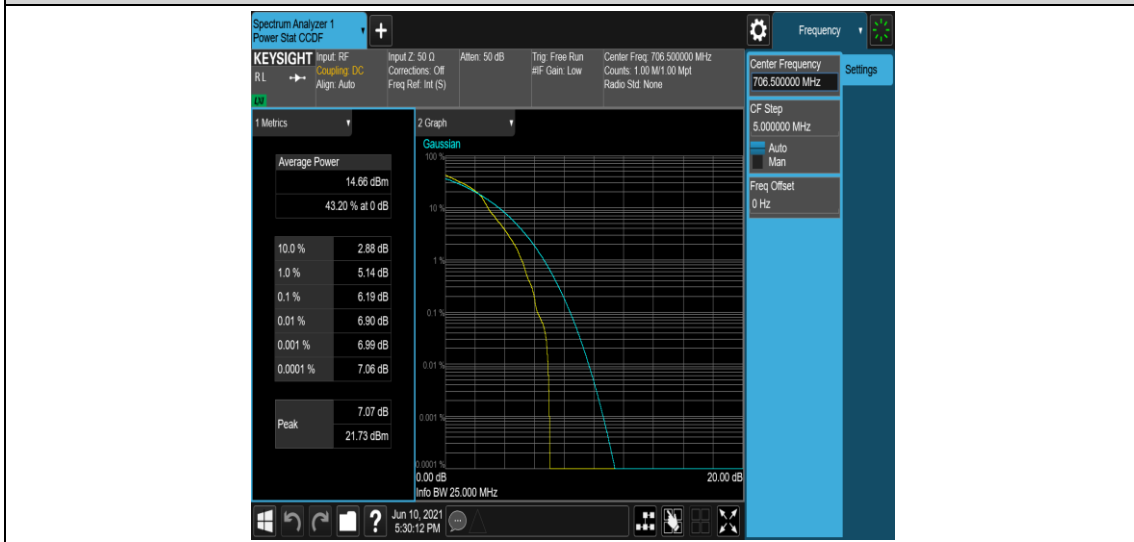
Band17-5MHz-QPSK-23825-1RB#0



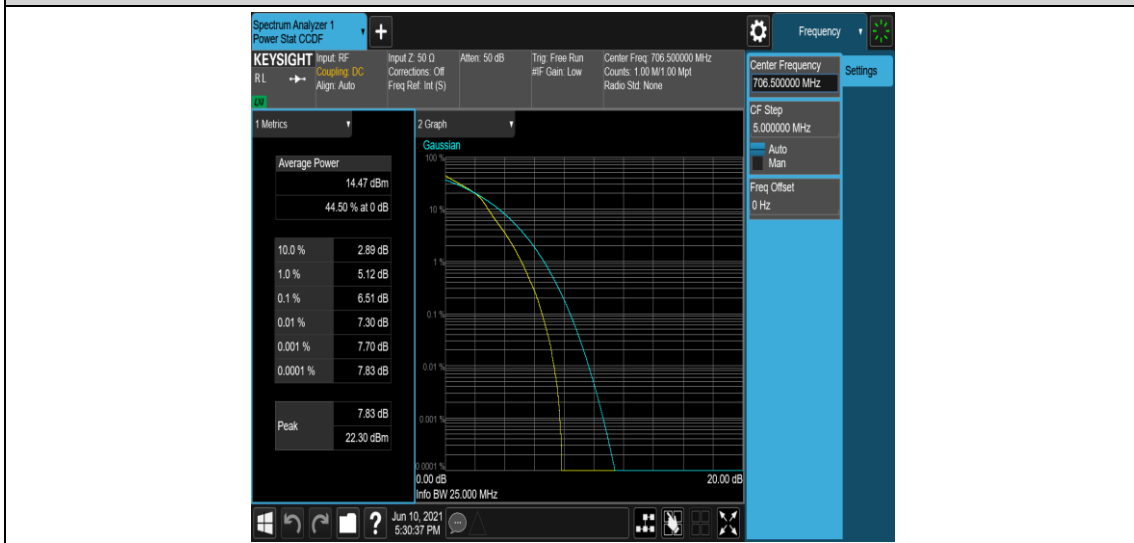
Band17-5MHz-QPSK-23825-25RB#0



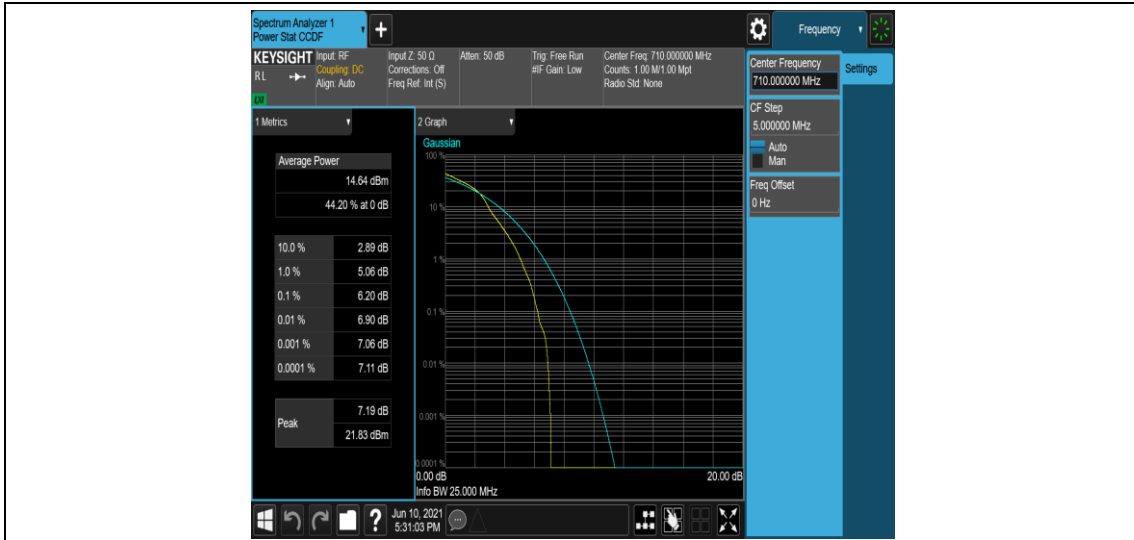
Band17-5MHz-16QAM-23755-1RB#0



Band17-5MHz-16QAM-23755-25RB#0



Band17-5MHz-16QAM-23790-1RB#0



Band17-5MHz-16QAM-23790-25RB#0



Band17-5MHz-16QAM-23825-1RB#0

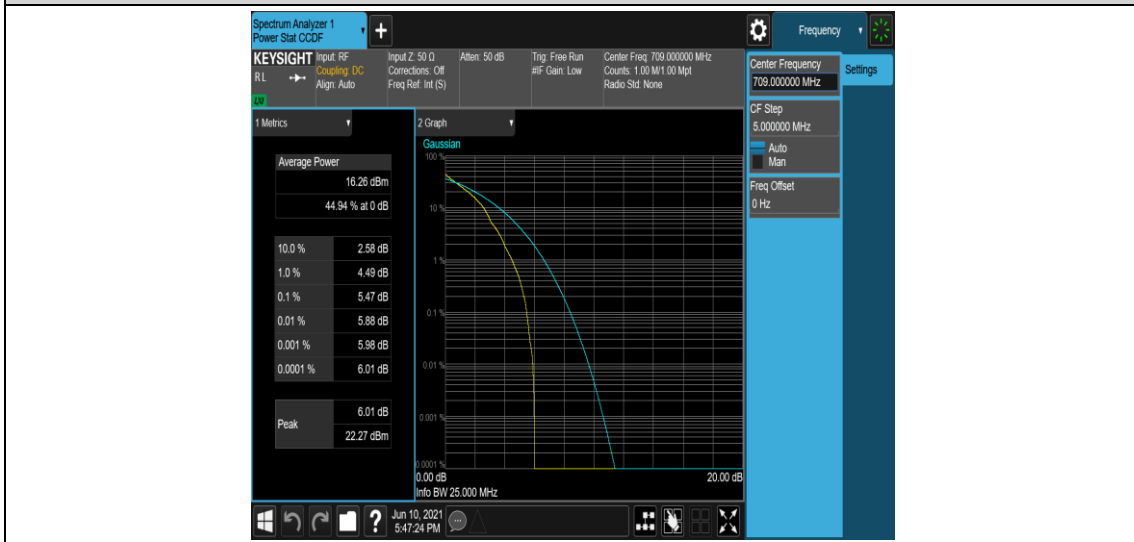


Band17-5MHz-16QAM-23825-25RB#0

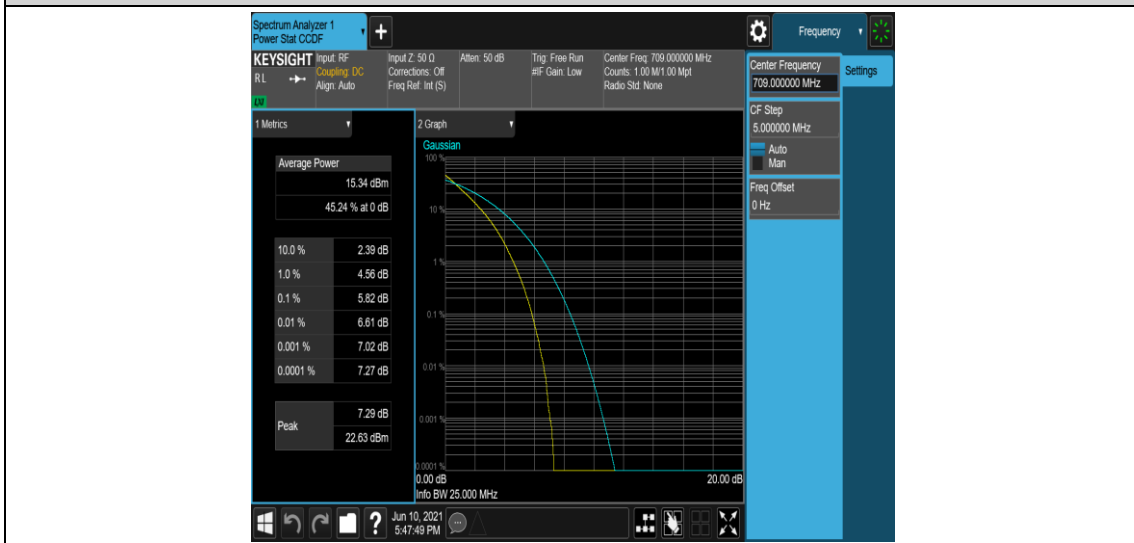




Band17-10MHz-QPSK-23780-1RB#0



Band17-10MHz-QPSK-23780-50RB#0



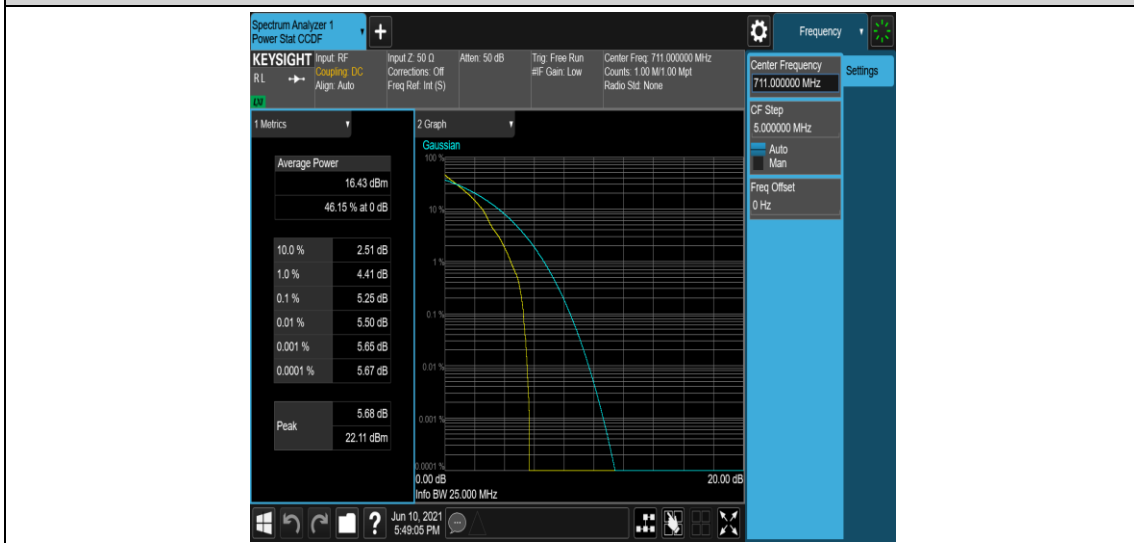
Band17-10MHz-QPSK-23790-1RB#0



Band17-10MHz-QPSK-23790-50RB#0



Band17-10MHz-QPSK-23800-1RB#0



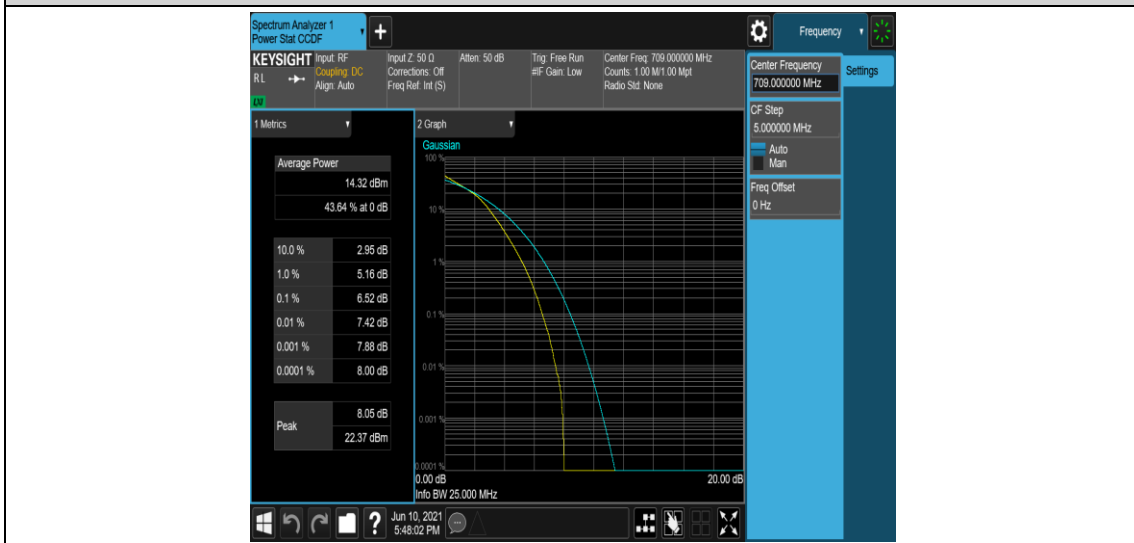
Band17-10MHz-QPSK-23800-50RB#0



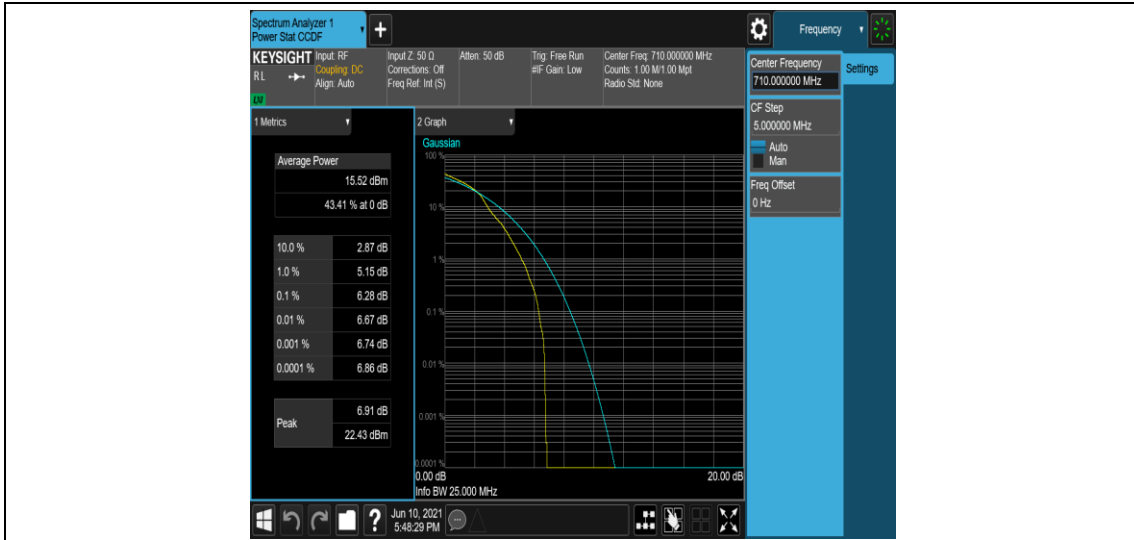
Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23790-1RB#0



Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-1RB#0



Band17-10MHz-16QAM-23800-50RB#0

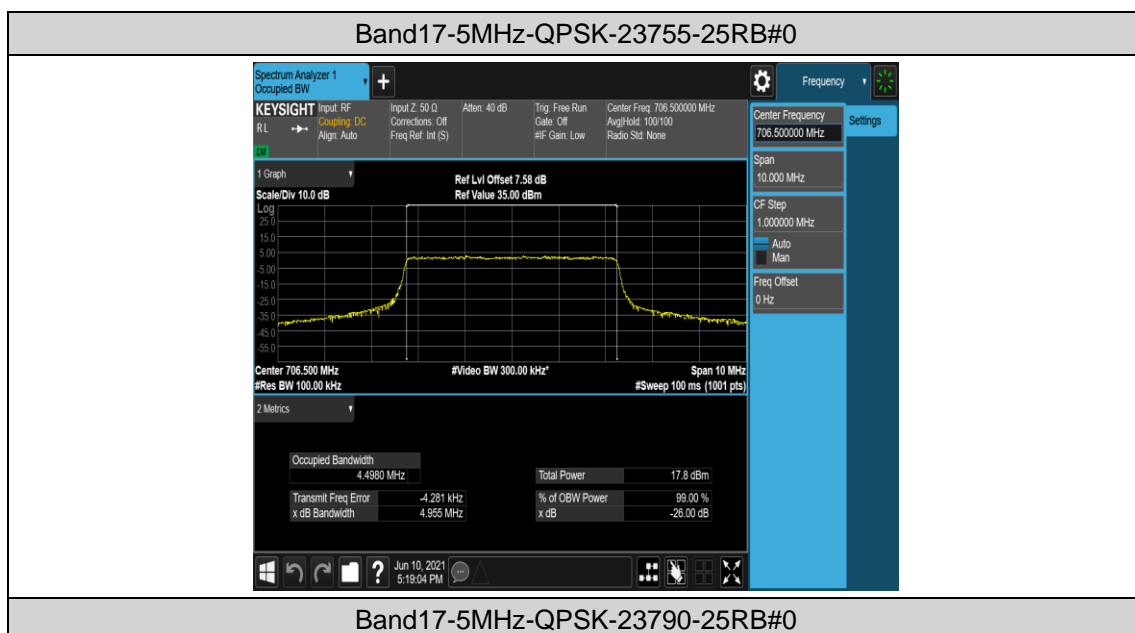


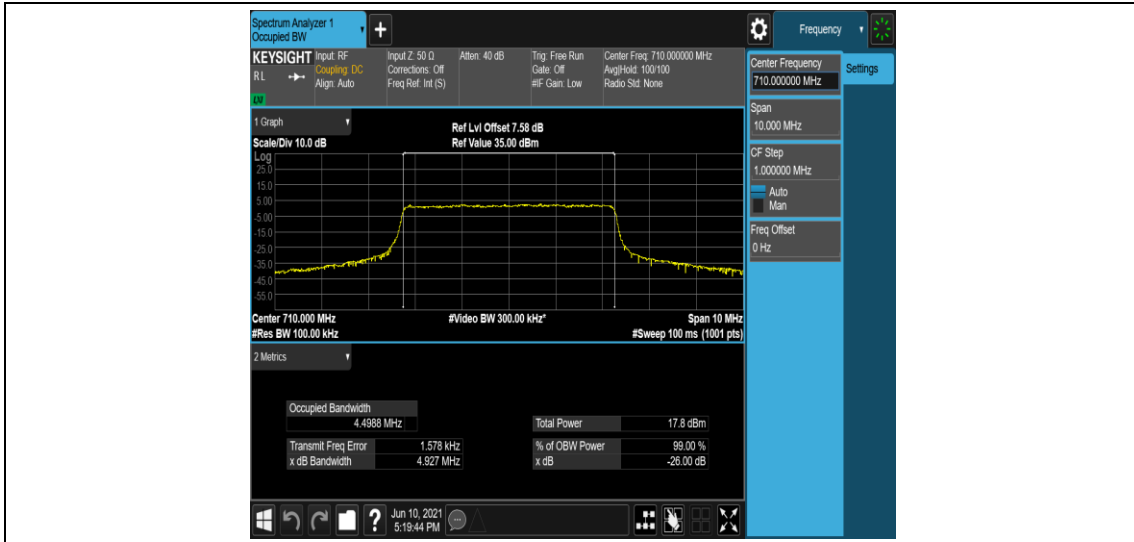
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

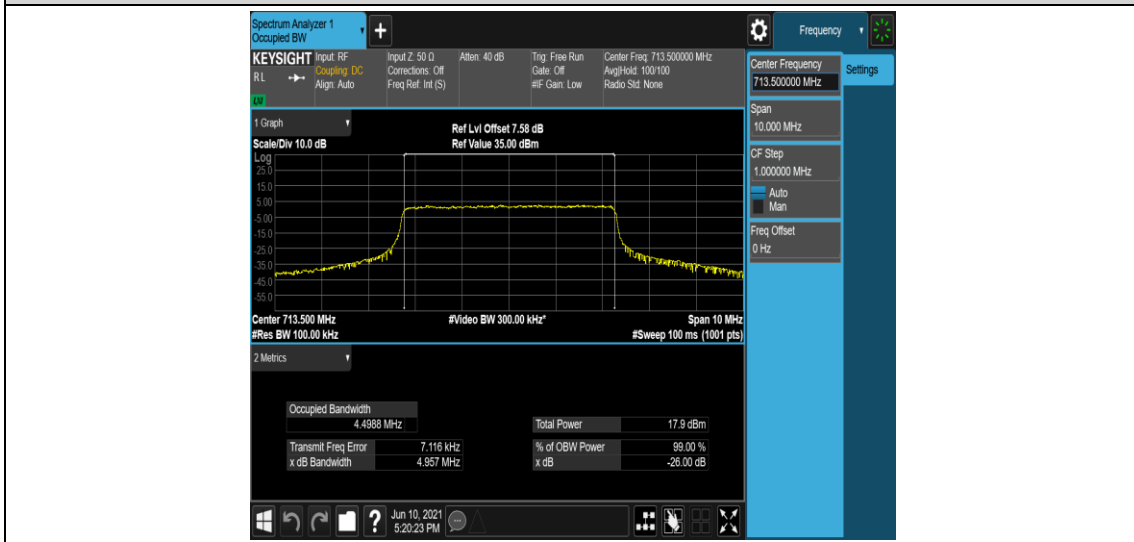
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.4980	4.955	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.4988	4.927	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4988	4.957	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5025	4.942	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5032	4.951	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.4957	4.974	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9920	9.583	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9863	9.551	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9867	9.559	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9830	9.555	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9804	9.592	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9827	9.570	PASS

### Test Graphs

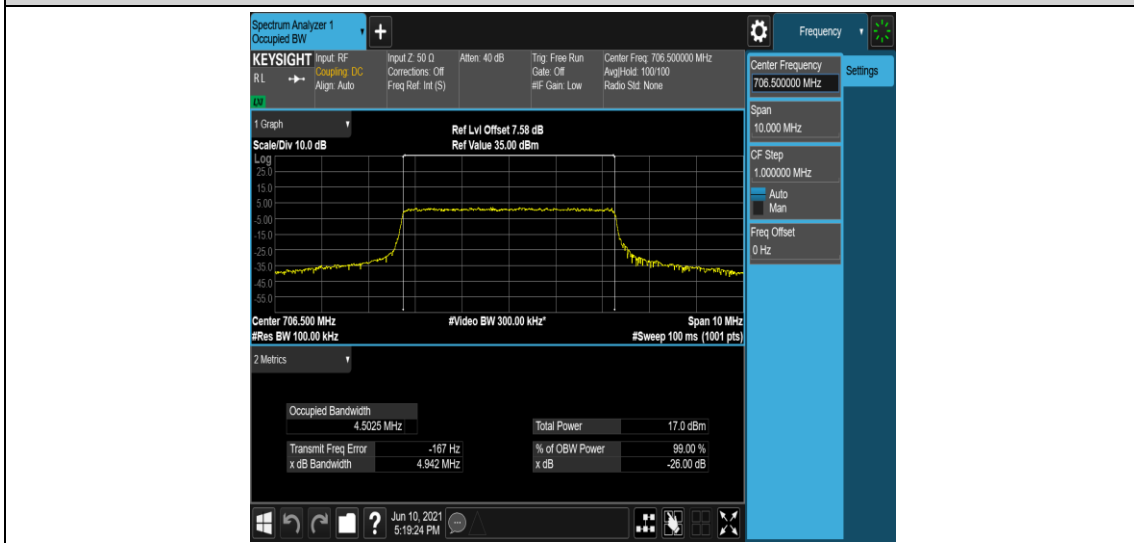




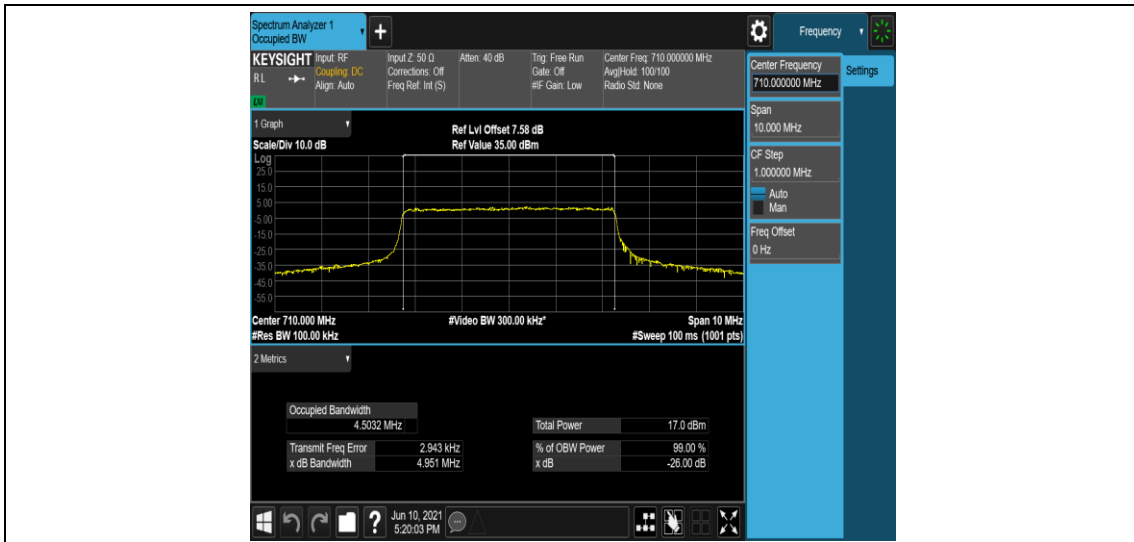
Band17-5MHz-QPSK-23825-25RB#0



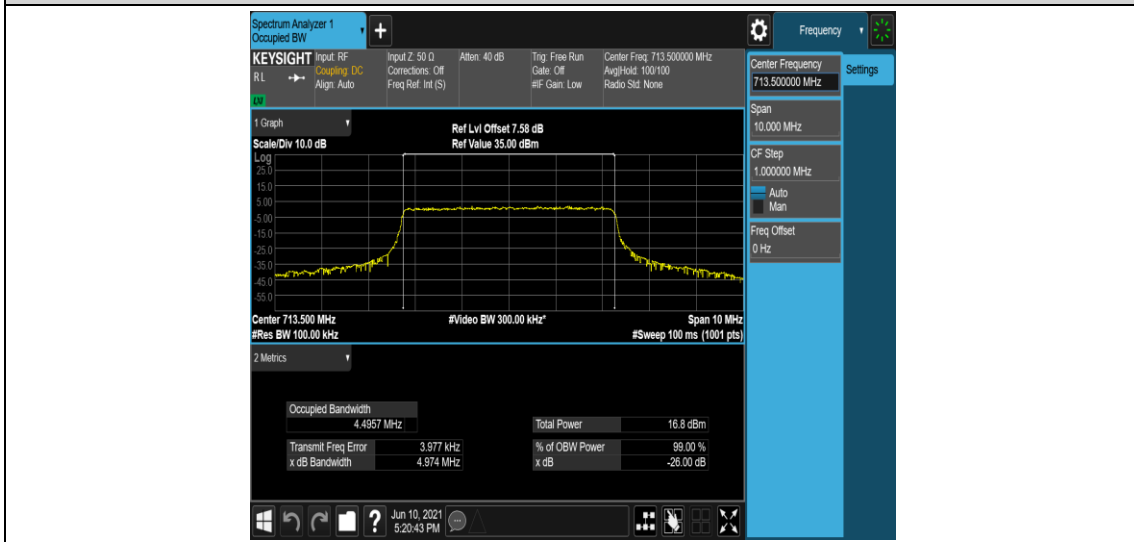
Band17-5MHz-16QAM-23755-25RB#0



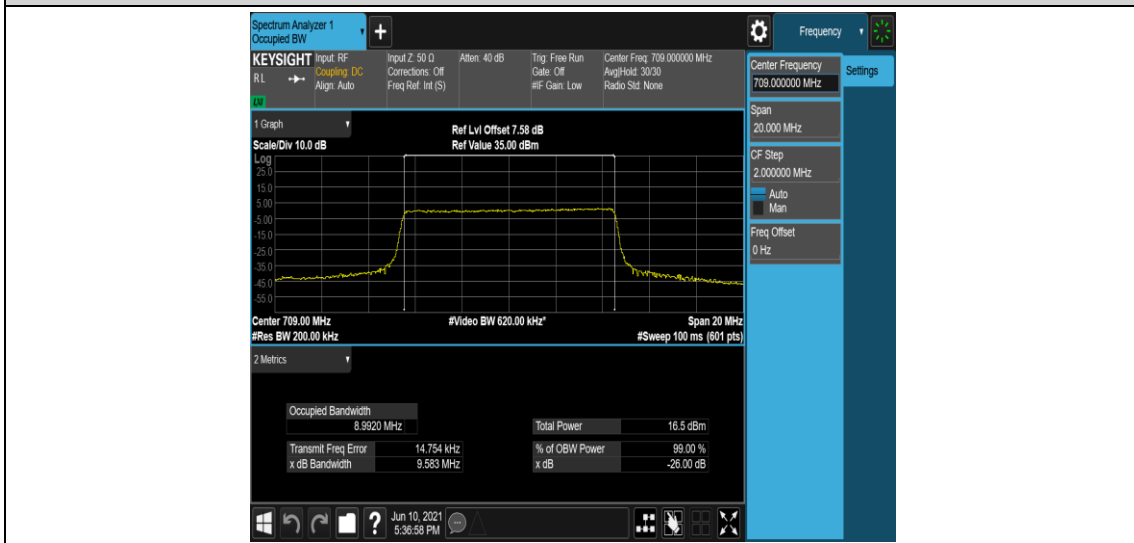
Band17-5MHz-16QAM-23790-25RB#0



Band17-5MHz-16QAM-23825-25RB#0

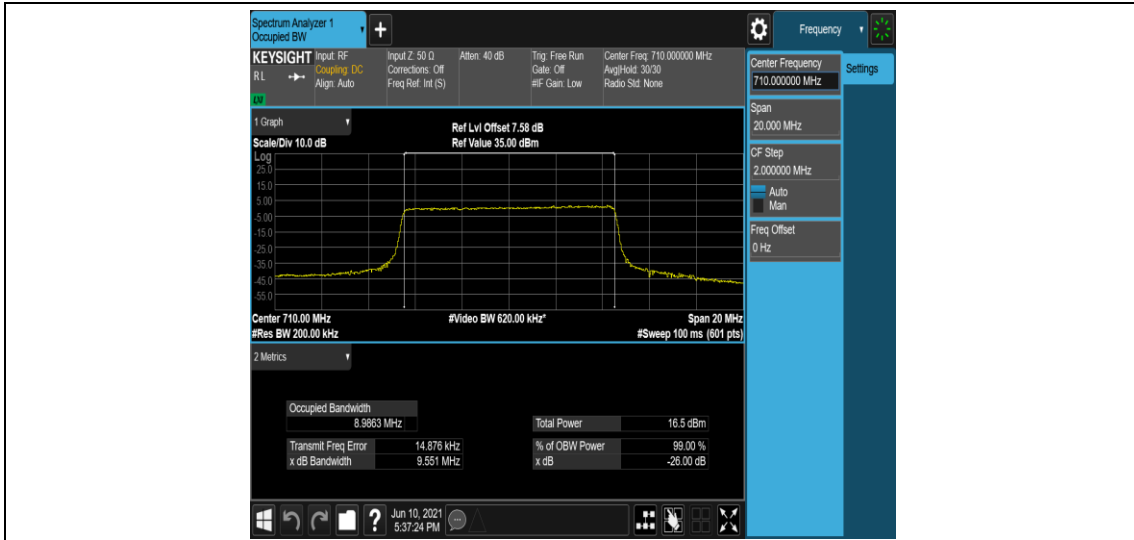


Band17-10MHz-QPSK-23780-50RB#0

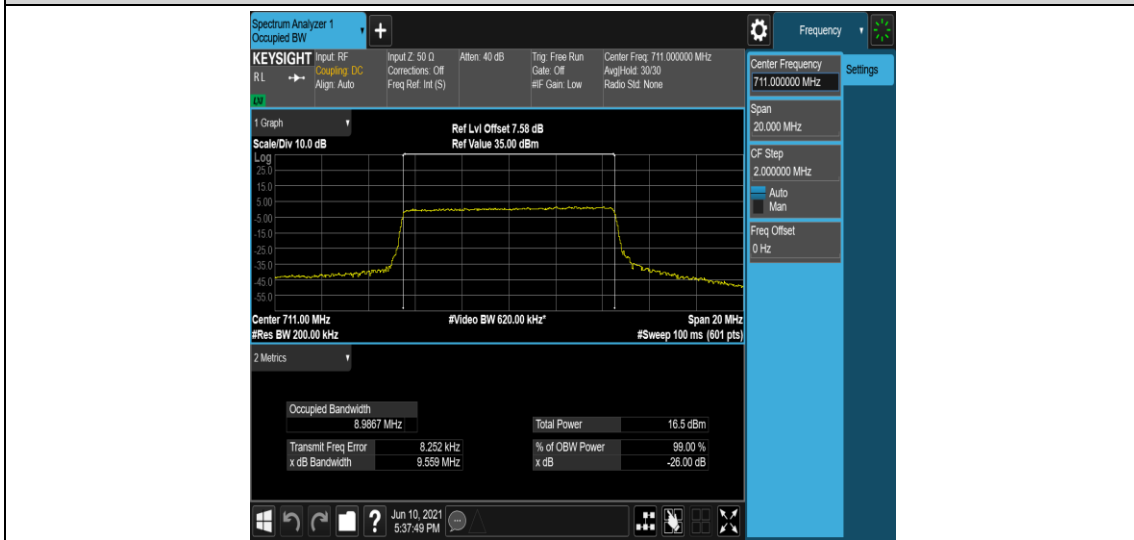


Band17-10MHz-QPSK-23790-50RB#0

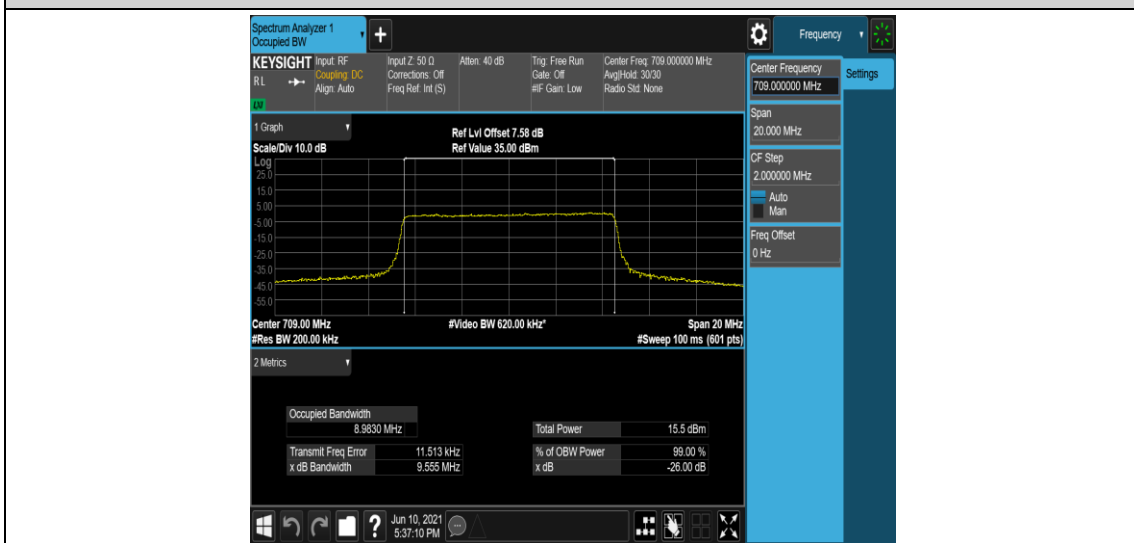




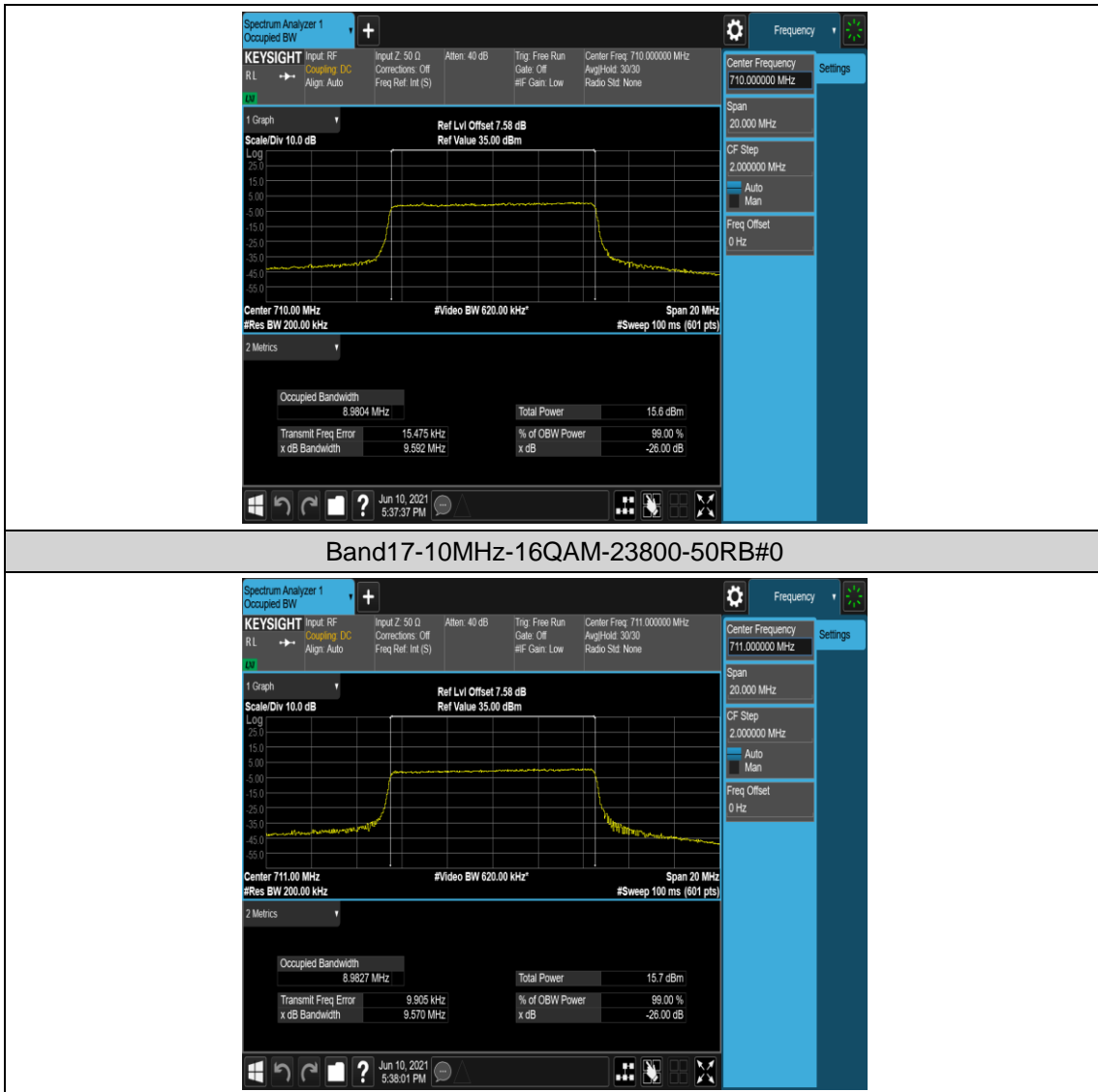
Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23790-50RB#0

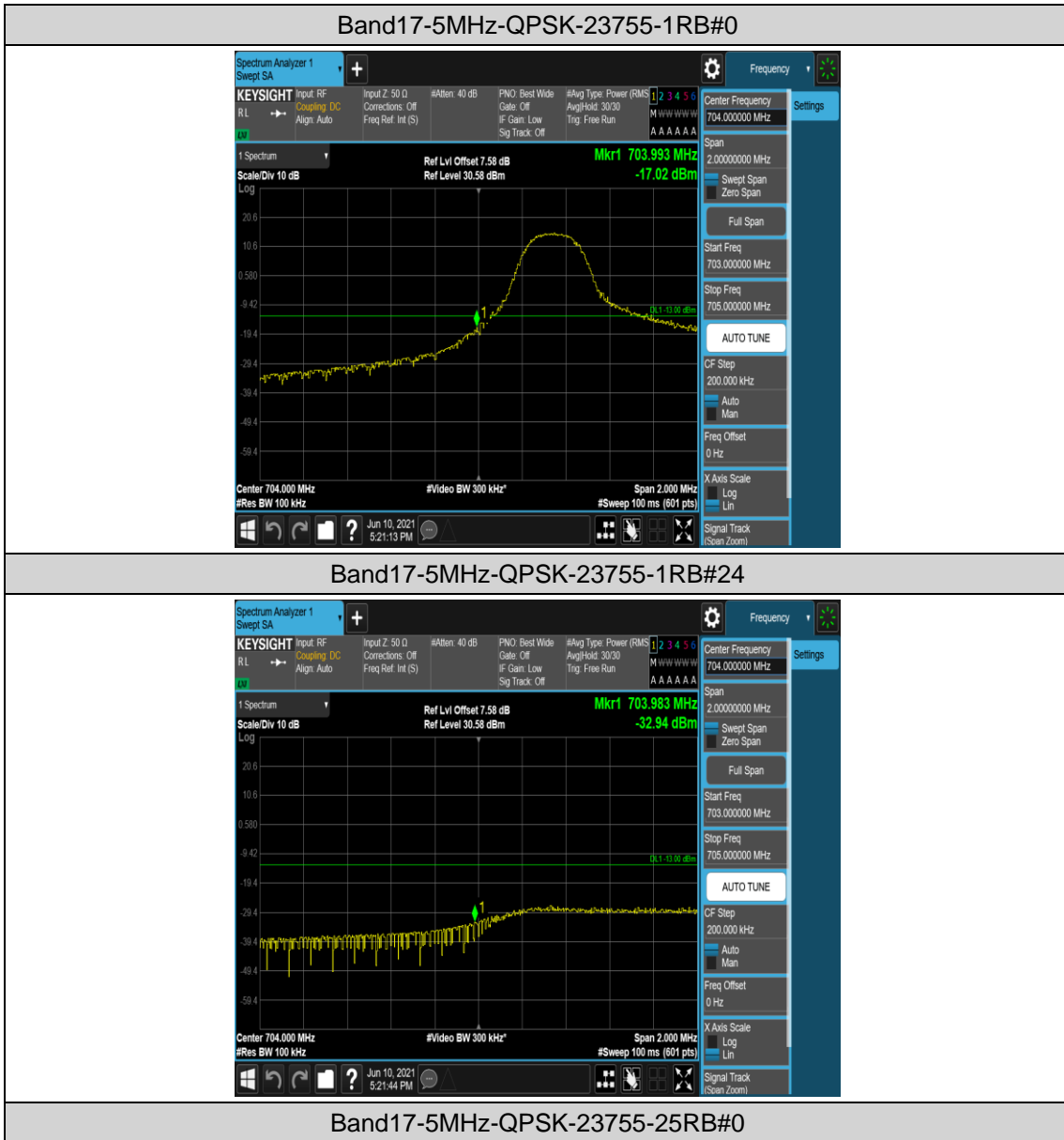


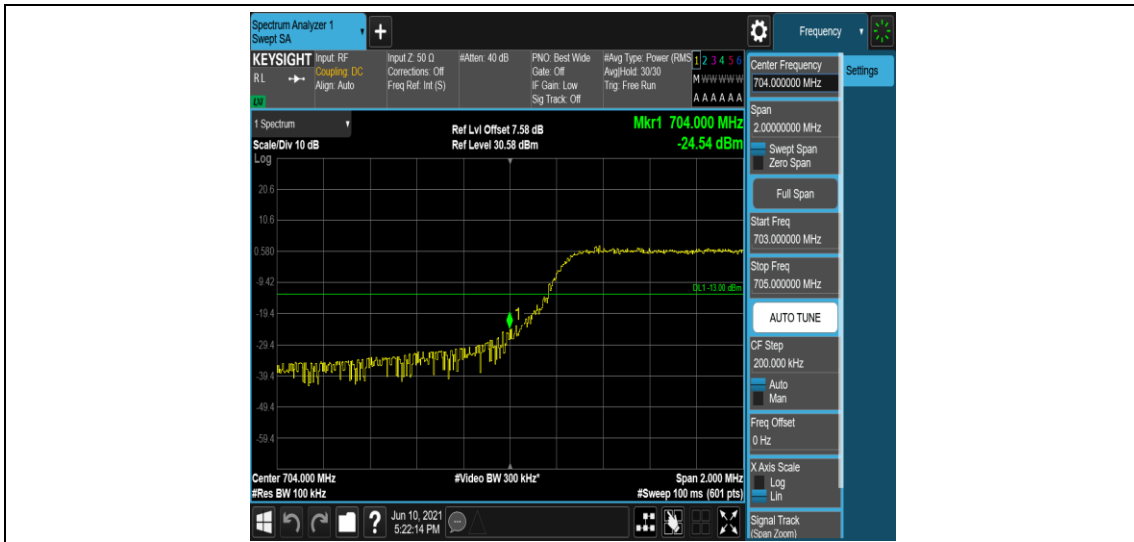
## Appendix D: Band Edge

### Test Result

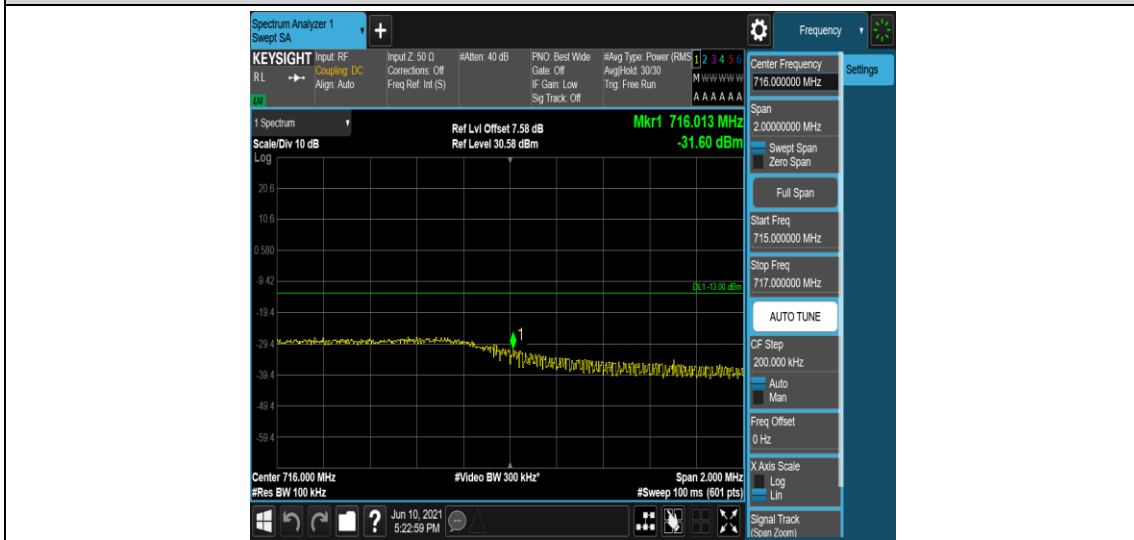
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-17.02	PASS
Band17	5MHz	QPSK	23755	1RB#24	-32.94	PASS
Band17	5MHz	QPSK	23755	25RB#0	-24.54	PASS
Band17	5MHz	QPSK	23825	1RB#0	-31.60	PASS
Band17	5MHz	QPSK	23825	1RB#24	-16.10	PASS
Band17	5MHz	QPSK	23825	25RB#0	-27.56	PASS
Band17	5MHz	16QAM	23755	1RB#0	-20.12	PASS
Band17	5MHz	16QAM	23755	1RB#24	-34.08	PASS
Band17	5MHz	16QAM	23755	25RB#0	-28.27	PASS
Band17	5MHz	16QAM	23825	1RB#0	-32.22	PASS
Band17	5MHz	16QAM	23825	1RB#24	-18.14	PASS
Band17	5MHz	16QAM	23825	25RB#0	-25.19	PASS
Band17	10MHz	QPSK	23780	1RB#0	-22.41,-18.90	PASS
Band17	10MHz	QPSK	23780	1RB#49	-37.33,-36.31	PASS
Band17	10MHz	QPSK	23780	50RB#0	-33.74,-31.90	PASS
Band17	10MHz	QPSK	23800	1RB#0	-34.30,-35.39	PASS
Band17	10MHz	QPSK	23800	1RB#49	-19.08,-22.80	PASS
Band17	10MHz	QPSK	23800	50RB#0	-32.04,-34.60	PASS
Band17	10MHz	16QAM	23780	1RB#0	-21.65,-18.09	PASS
Band17	10MHz	16QAM	23780	1RB#49	-36.87,-35.74	PASS
Band17	10MHz	16QAM	23780	50RB#0	-34.75,-32.70	PASS
Band17	10MHz	16QAM	23800	1RB#0	-34.11,-34.61	PASS
Band17	10MHz	16QAM	23800	1RB#49	-20.39,-22.83	PASS
Band17	10MHz	16QAM	23800	50RB#0	-30.49,-32.65	PASS

### Test Graphs





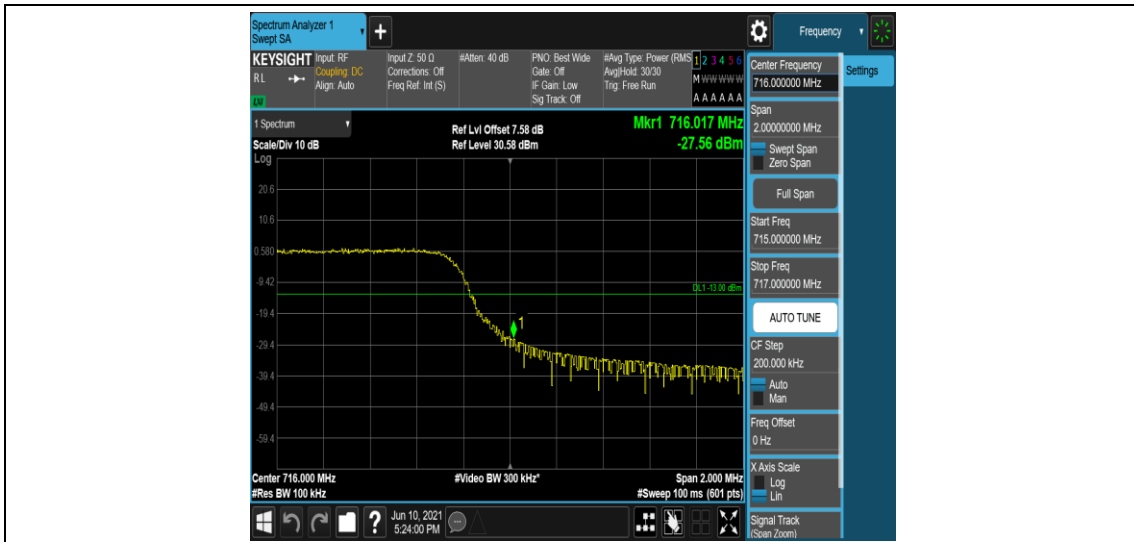
Band17-5MHz-QPSK-23825-1RB#0



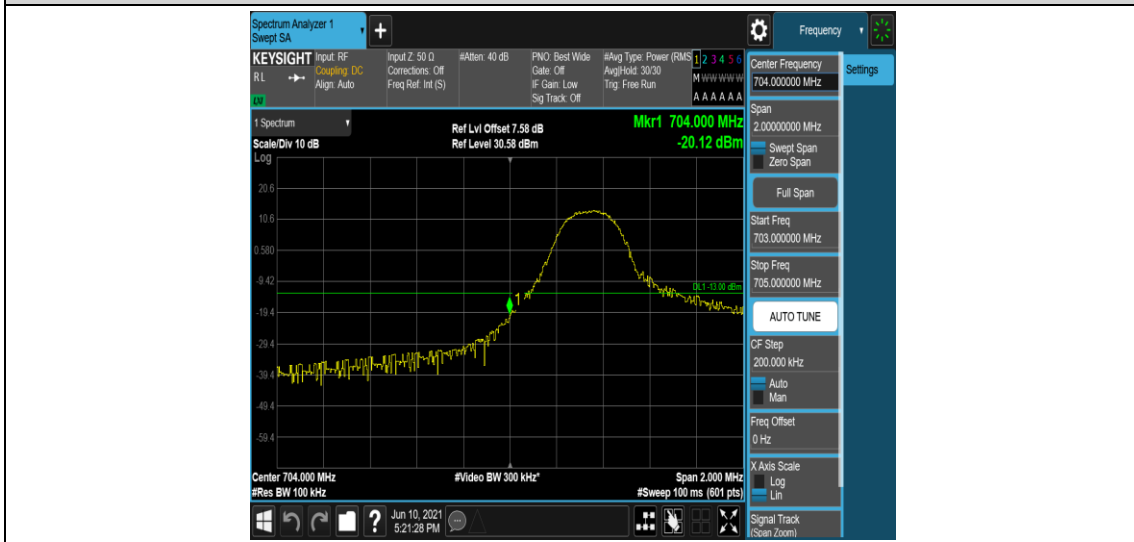
Band17-5MHz-QPSK-23825-1RB#24



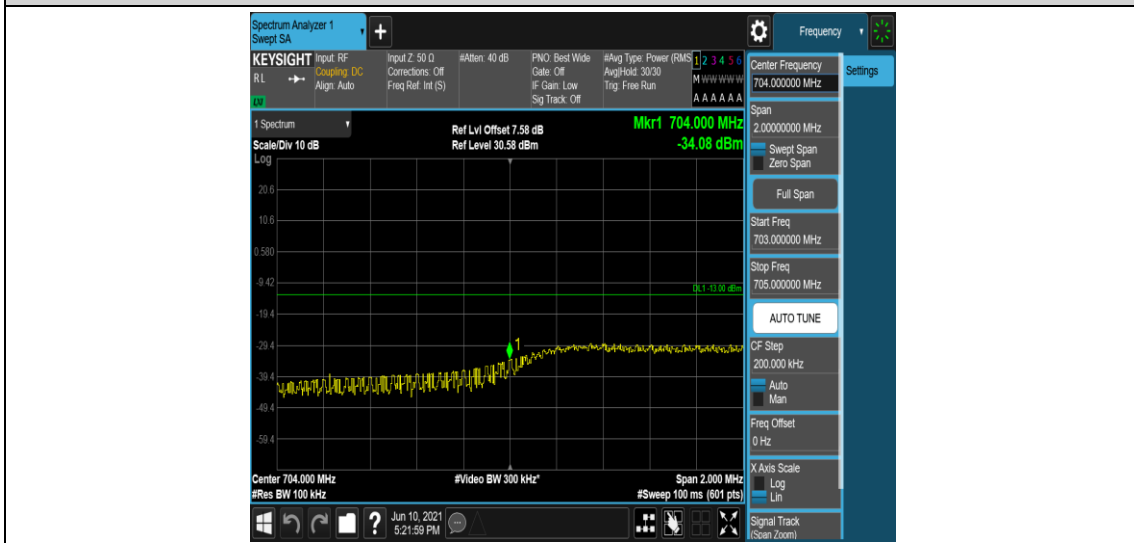
Band17-5MHz-QPSK-23825-25RB#0



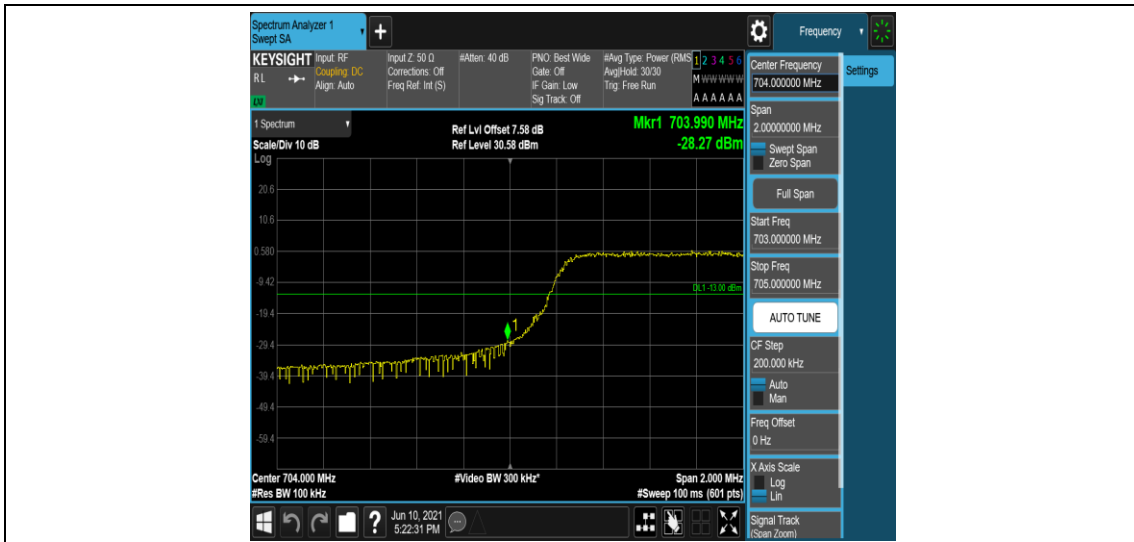
Band17-5MHz-16QAM-23755-1RB#0



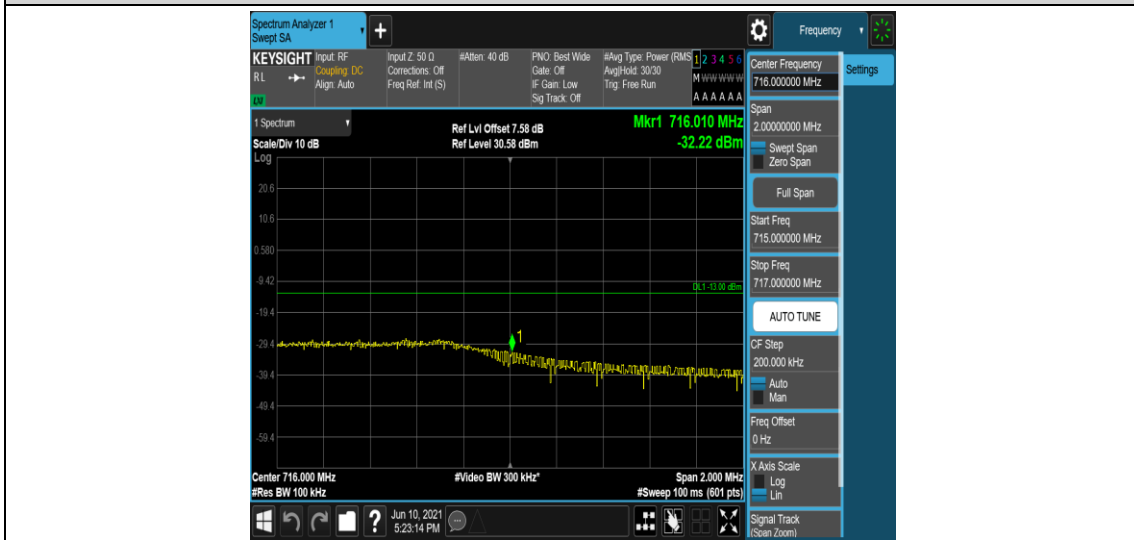
Band17-5MHz-16QAM-23755-1RB#24



Band17-5MHz-16QAM-23755-25RB#0



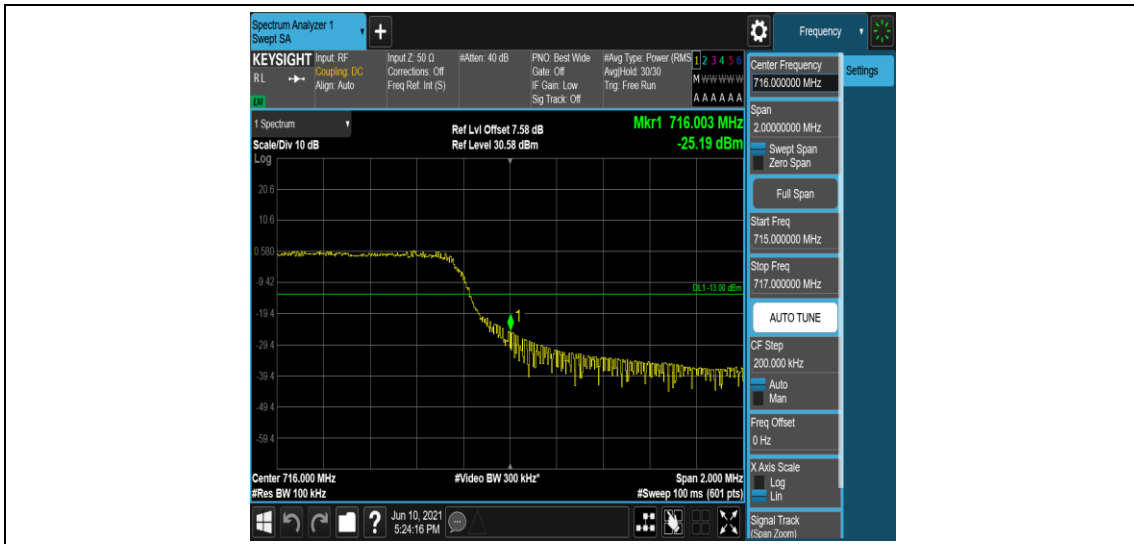
Band17-5MHz-16QAM-23825-1RB#0



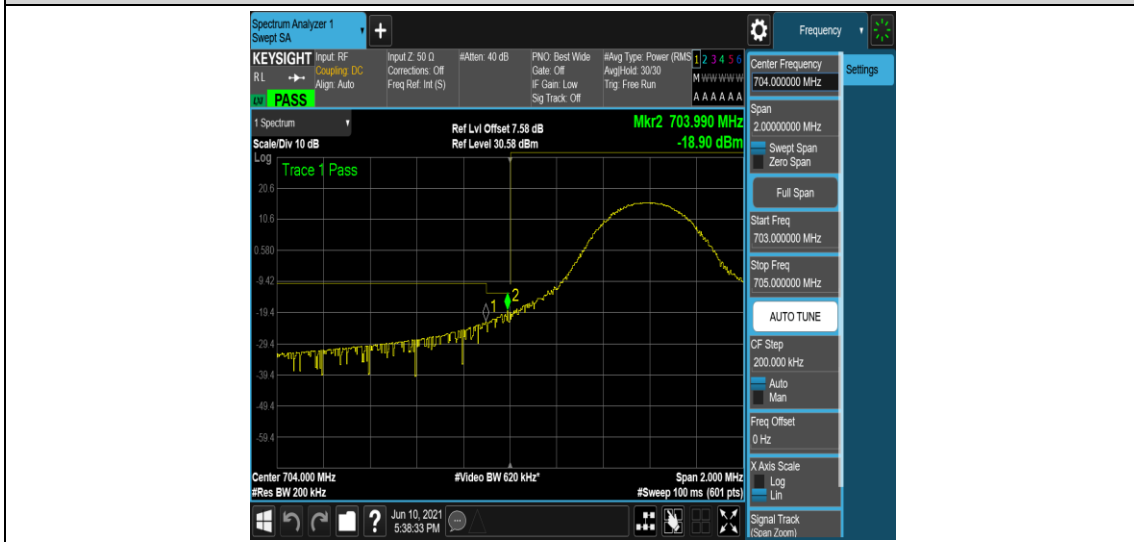
Band17-5MHz-16QAM-23825-1RB#24



Band17-5MHz-16QAM-23825-25RB#0



Band17-10MHz-QPSK-23780-1RB#0



Band17-10MHz-QPSK-23780-1RB#49

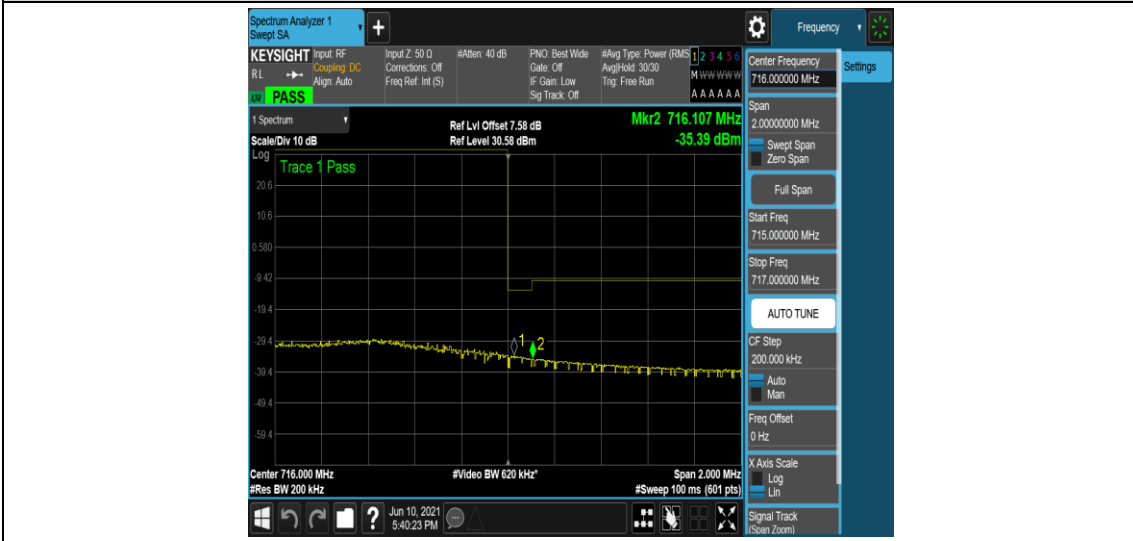


Band17-10MHz-QPSK-23780-50RB#0

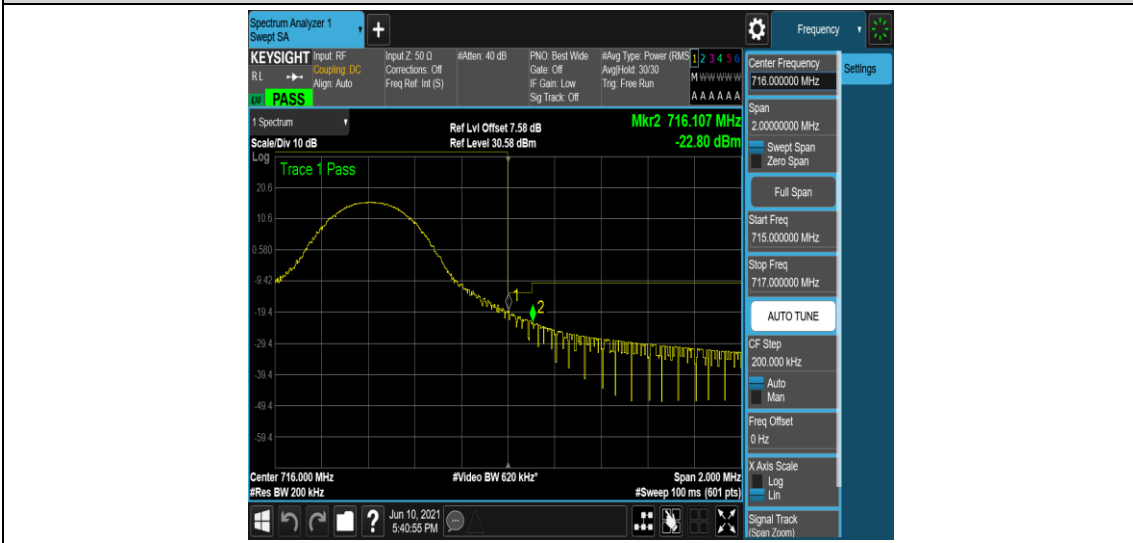




Band17-10MHz-QPSK-23800-1RB#0



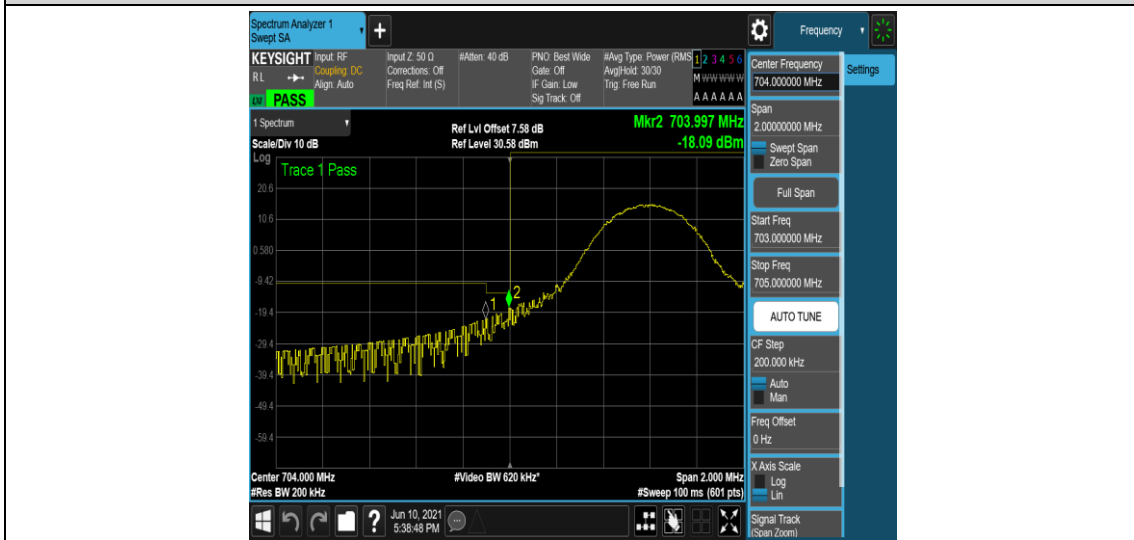
Band17-10MHz-QPSK-23800-1RB#49



Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-1RB#0



Band17-10MHz-16QAM-23780-1RB#49



Band17-10MHz-16QAM-23780-50RB#0