

## **Appendix for Band 17**

Product Name: Rugged Phone

Model No: MDT661

## Appendix A: Average Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.01	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.13	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.92	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.12	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.09	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.09	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.12	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.89	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.00	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.82	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.94	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.95	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.93	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.98	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.84	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.95	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.74	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.94	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.95	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.87	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.92	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.12	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.91	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.13	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.10	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.17	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.19	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.01	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.13	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.91	PASS

Band17	5MHz	16QAM	23790	12RB#0	20.97	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.95	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.96	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.96	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.85	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.72	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.94	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.94	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.76	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.86	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.50	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.59	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.96	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.06	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.08	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.04	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.05	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.07	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.10	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.79	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.00	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.96	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.92	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.90	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.05	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.06	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.88	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.91	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.87	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.78	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.84	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.67	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.62	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.92	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.10	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.11	PASS

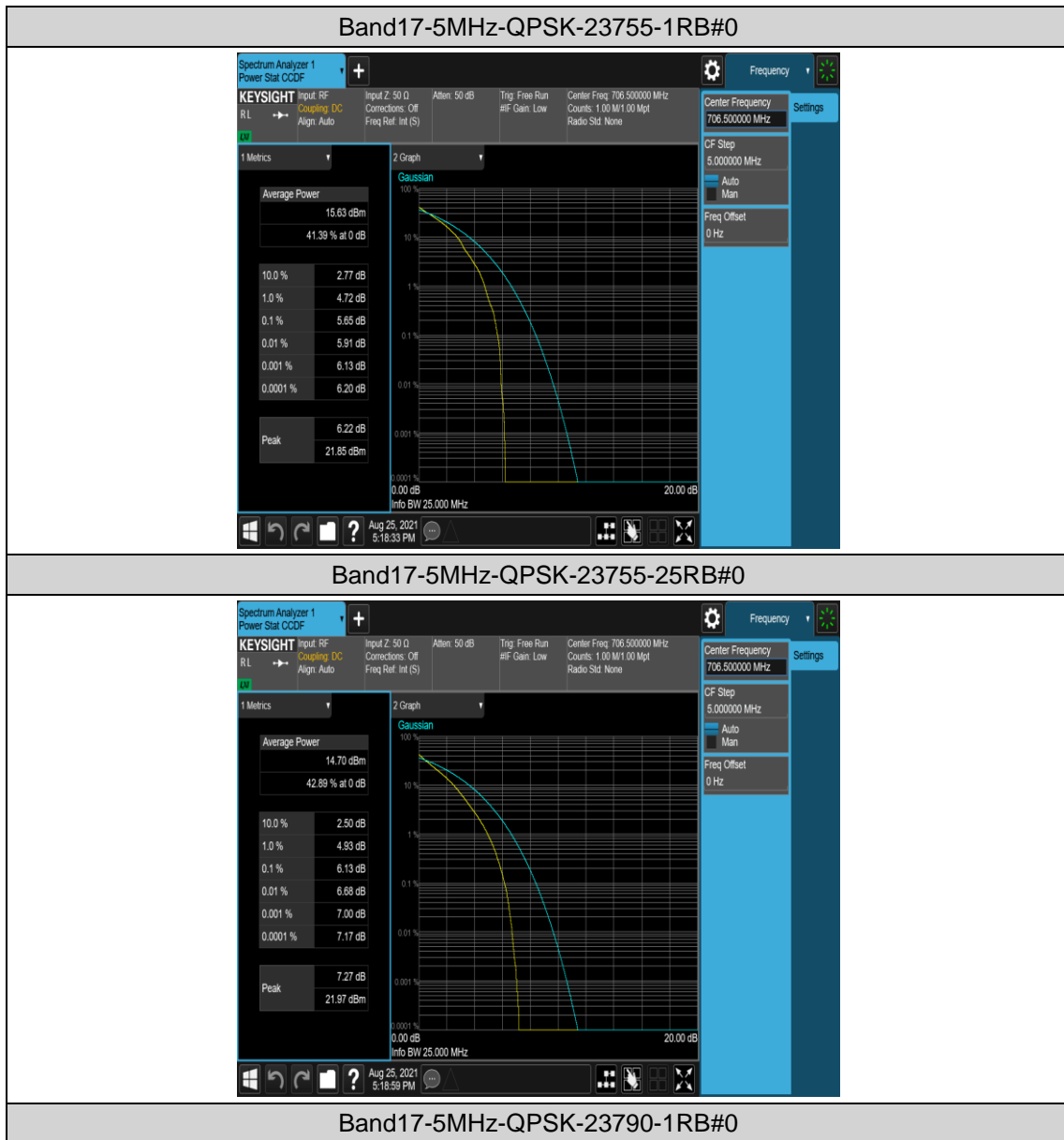
Band17	10MHz	16QAM	23780	25RB#25	21.06	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.04	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.99	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.01	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.66	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.01	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.02	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.90	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.92	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.85	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.78	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.68	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.95	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.96	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.83	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.82	PASS

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

### Test Result

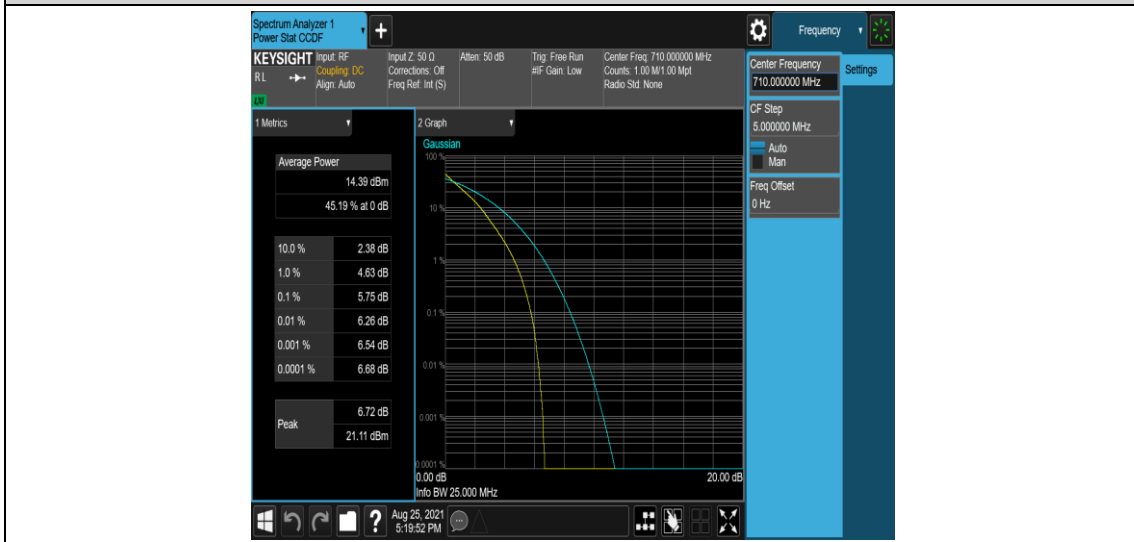
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.65	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	6.13	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.74	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.75	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.98	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.41	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	6.25	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.84	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	6.35	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.46	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.74	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.16	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.70	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.76	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.61	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.70	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.67	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.68	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	6.36	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.53	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	6.52	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.50	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.39	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.42	13	PASS

## Test Graphs

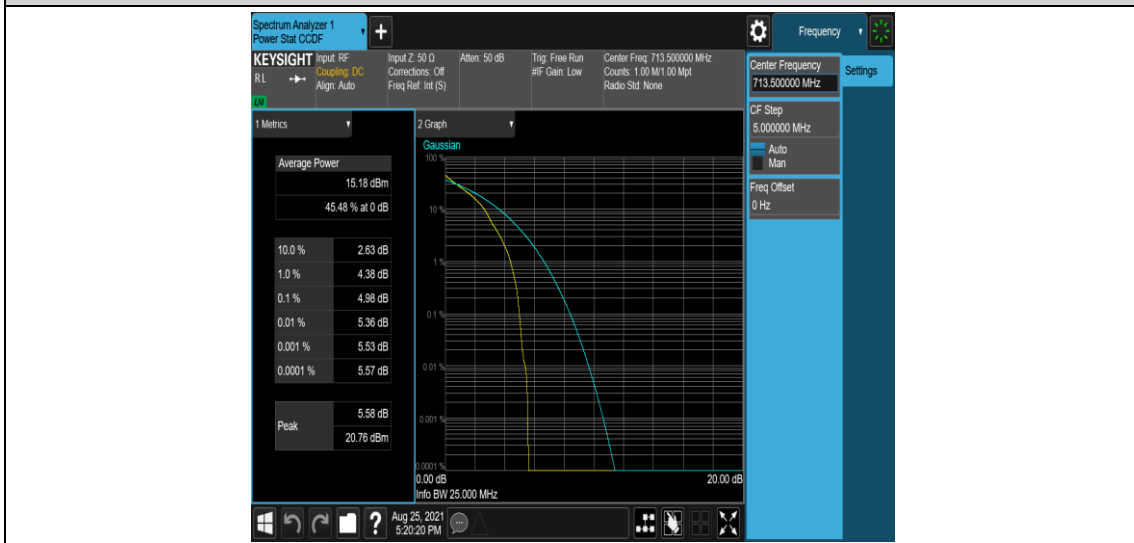




Band17-5MHz-QPSK-23790-25RB#0



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



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



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



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

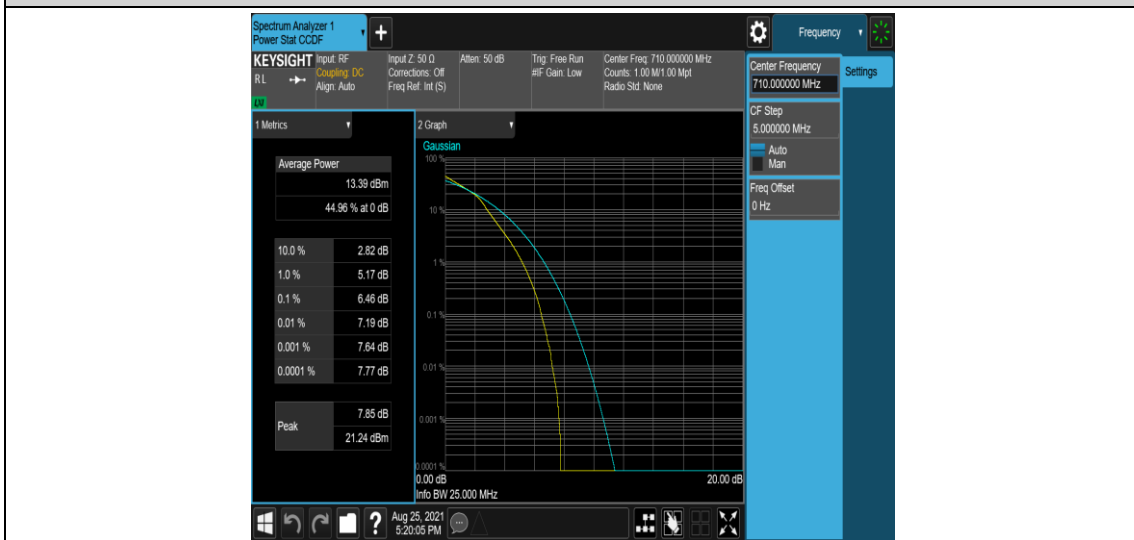


Band17-5MHz-16QAM-23790-1RB#0

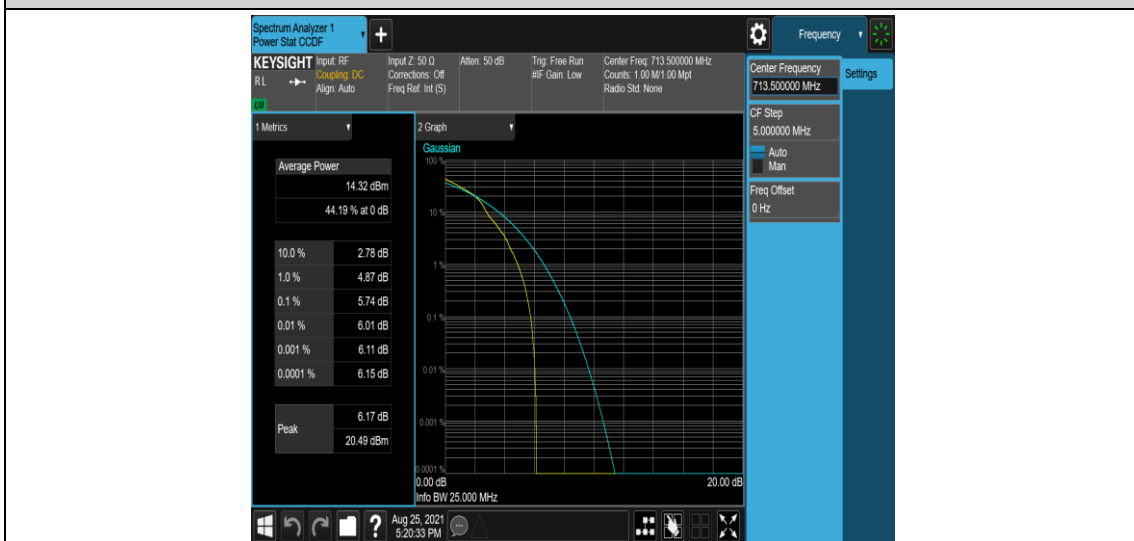




Band17-5MHz-16QAM-23790-25RB#0



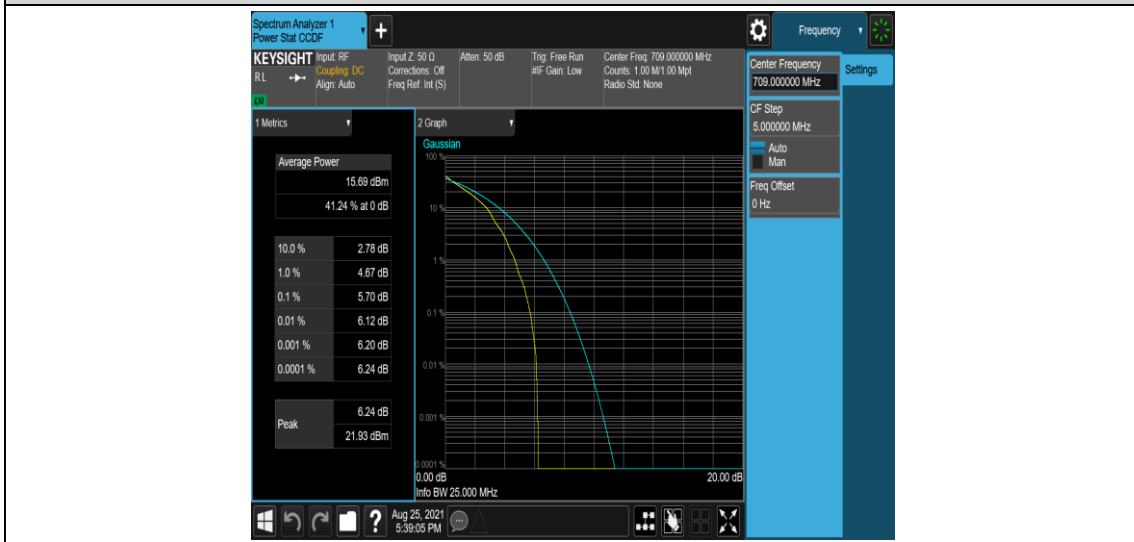
Band17-5MHz-16QAM-23825-1RB#0



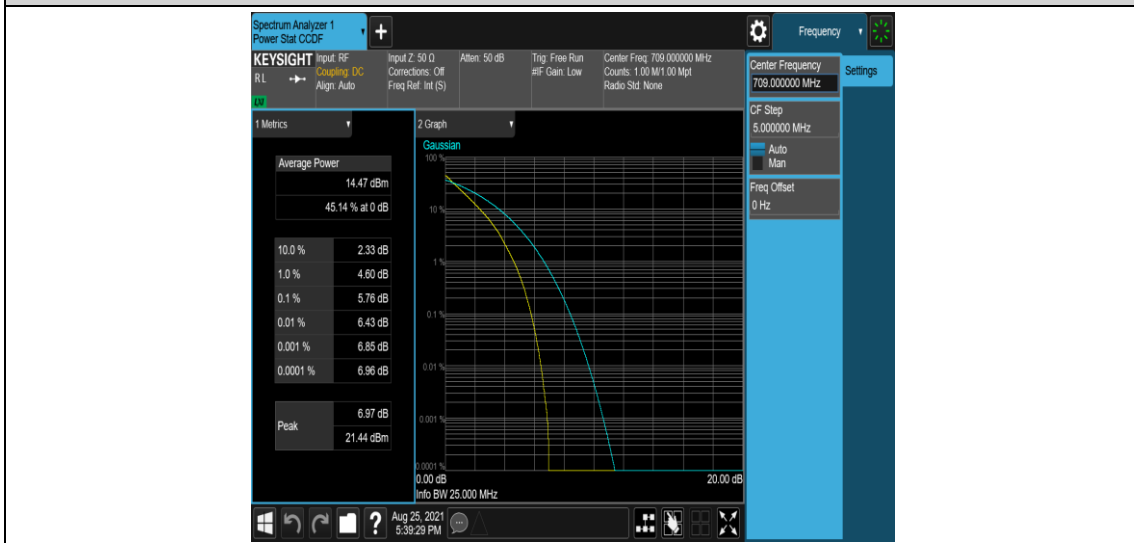
Band17-5MHz-16QAM-23825-25RB#0



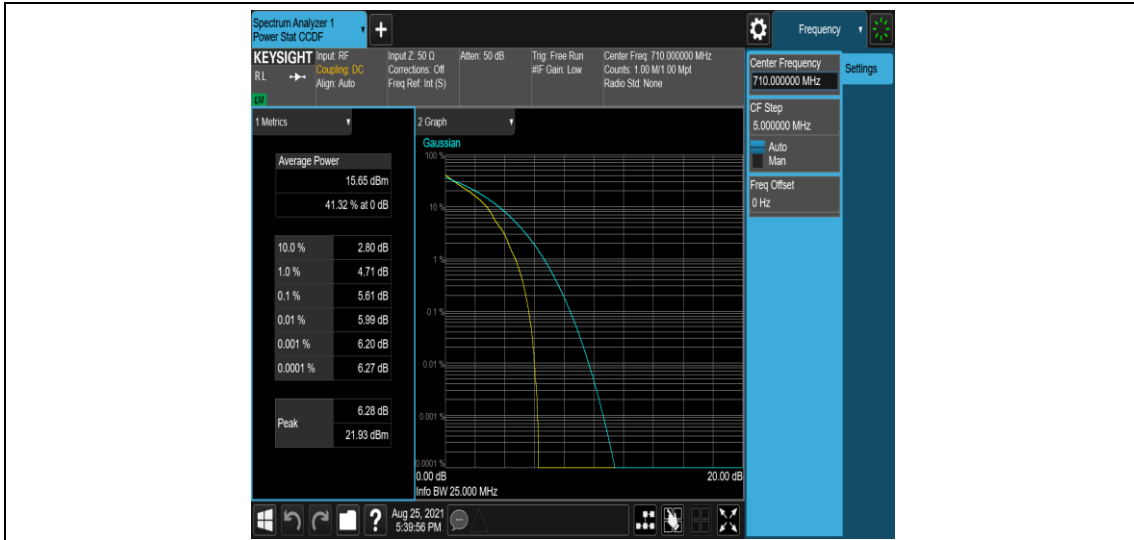
Band17-10MHz-QPSK-23780-1RB#0



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



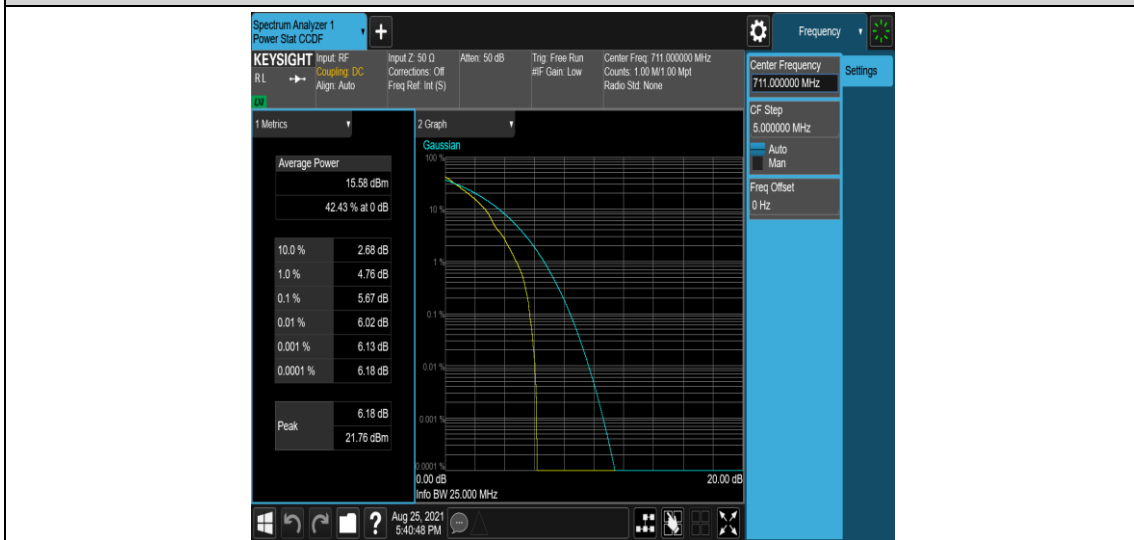
Band17-10MHz-QPSK-23790-1RB#0



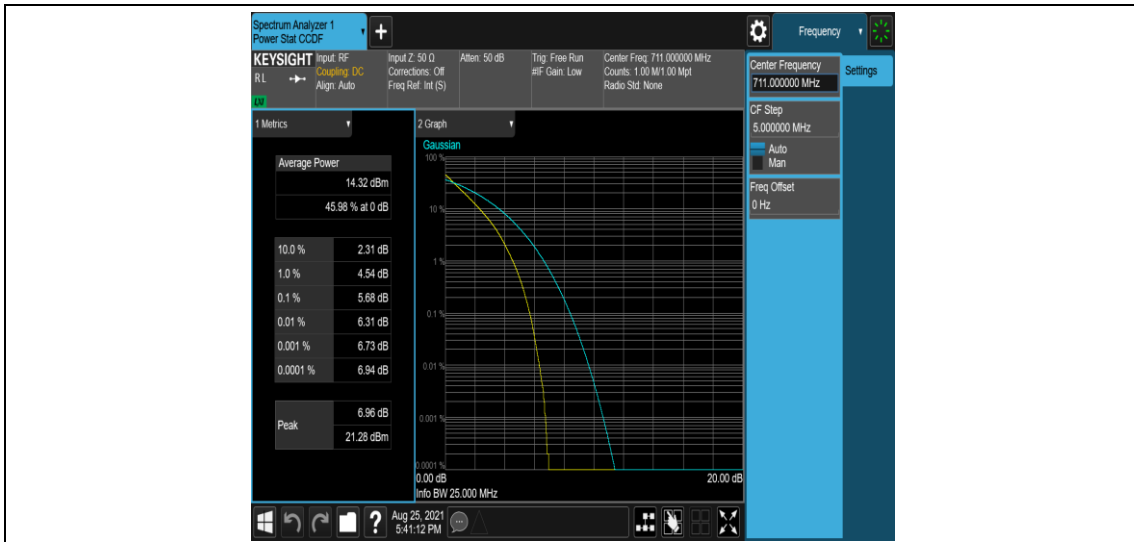
Band17-10MHz-QPSK-23790-50RB#0



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

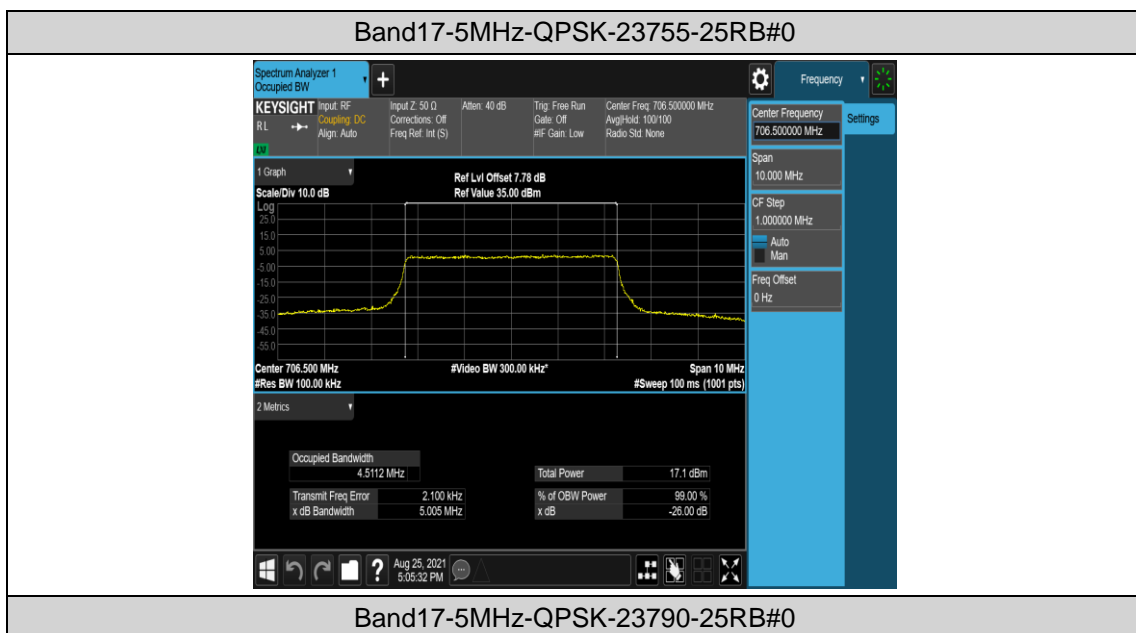


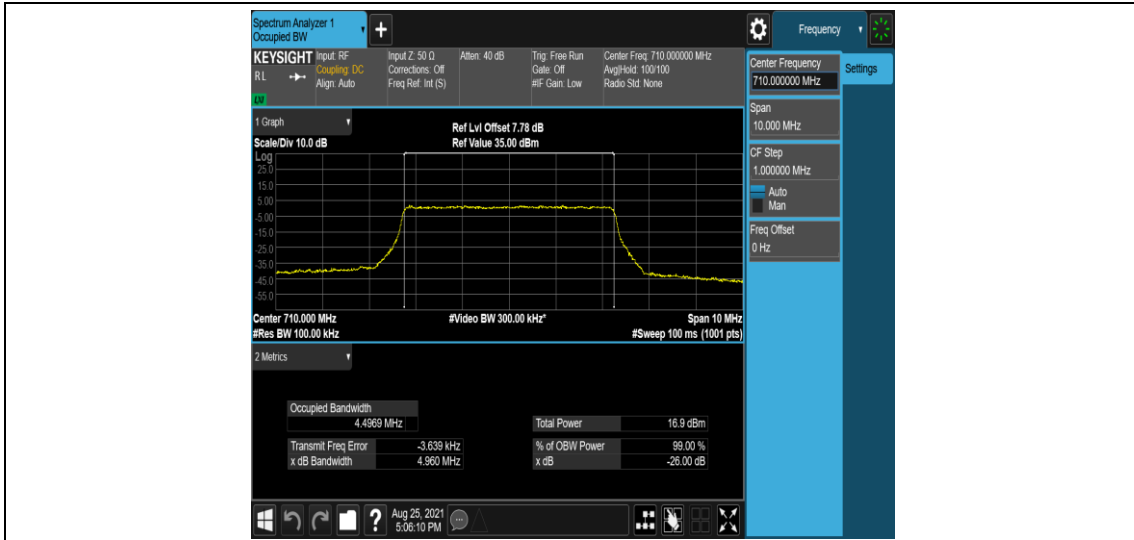
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

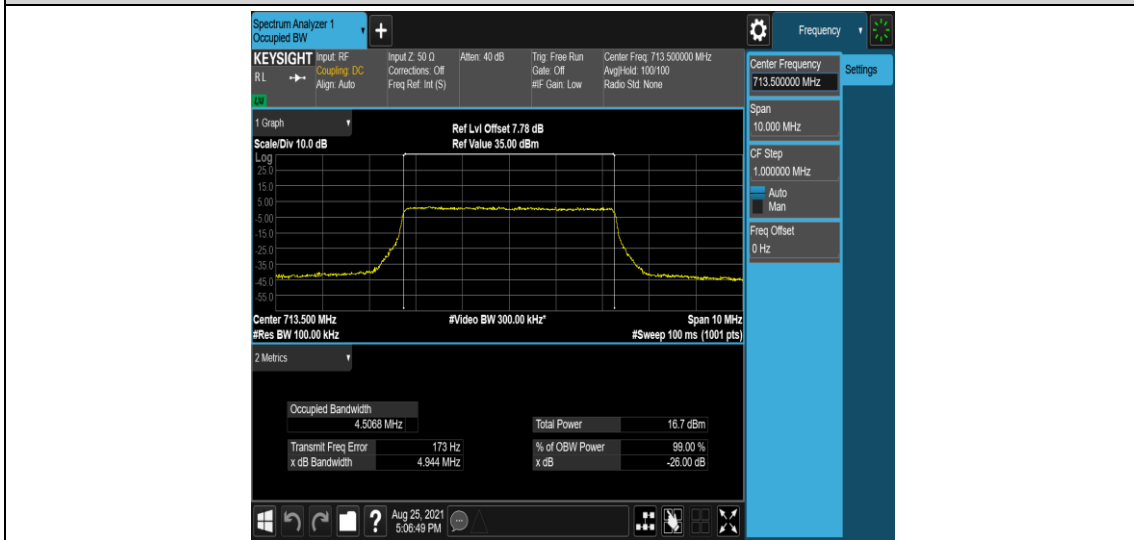
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5112	5.005	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.4969	4.960	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5068	4.944	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5103	4.925	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5053	4.918	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5033	4.995	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9818	9.605	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9786	9.576	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9693	9.615	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9722	9.579	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9567	9.539	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9625	9.573	PASS

### Test Graphs

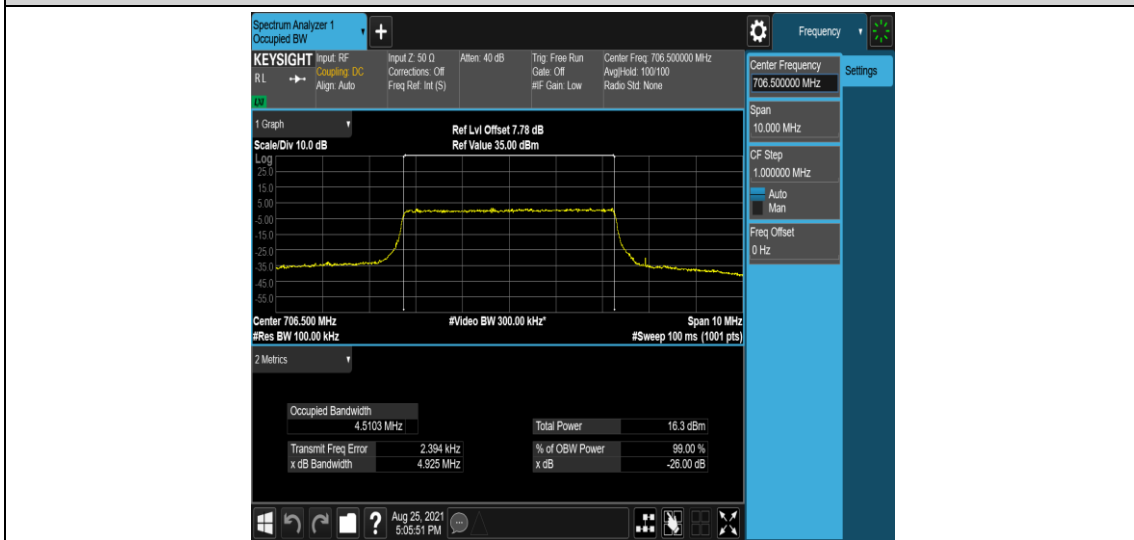




Band17-5MHz-QPSK-23825-25RB#0

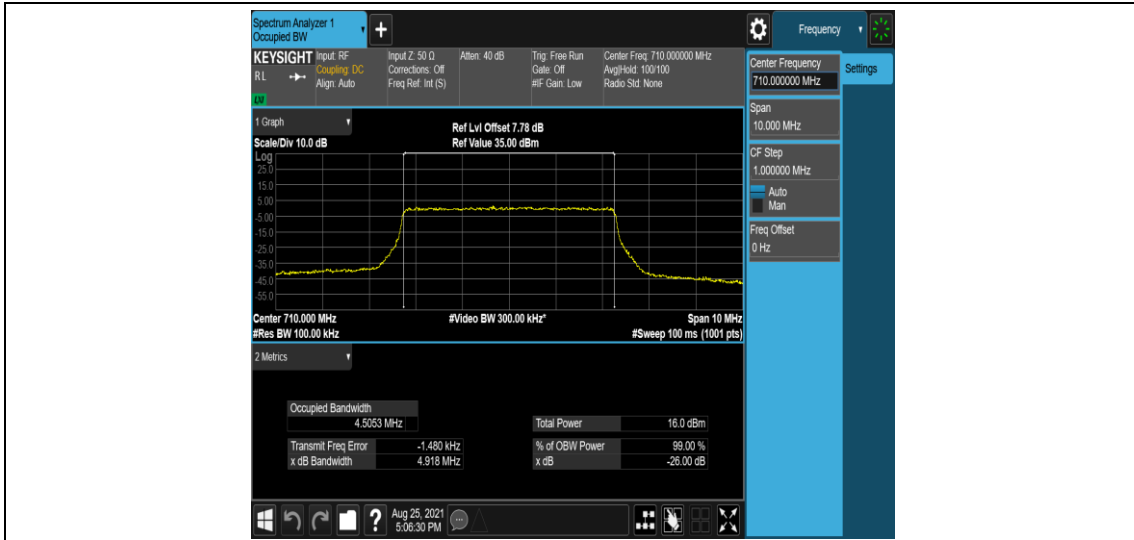


Band17-5MHz-16QAM-23755-25RB#0

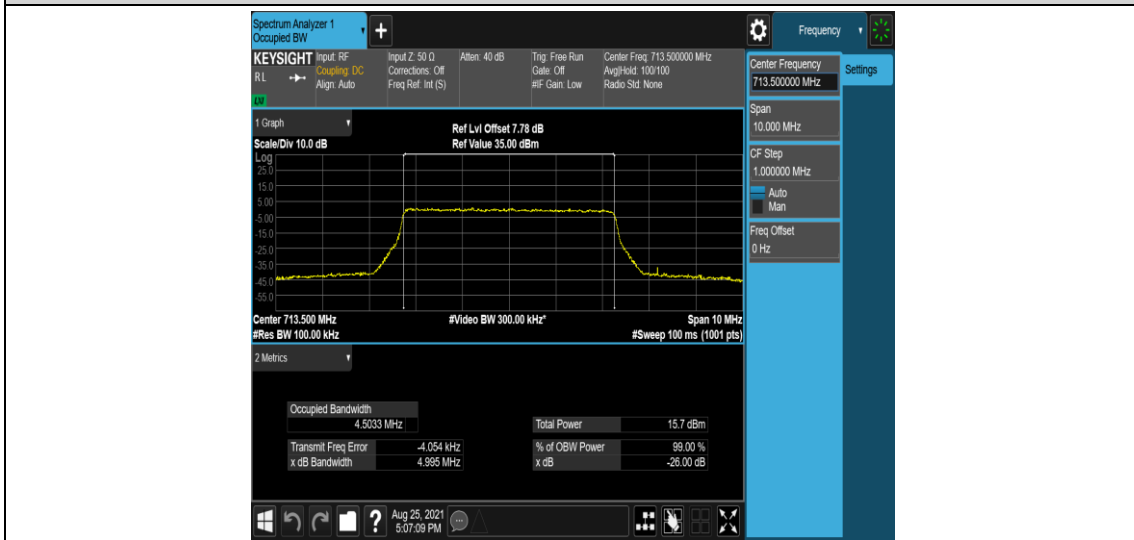


Band17-5MHz-16QAM-23790-25RB#0

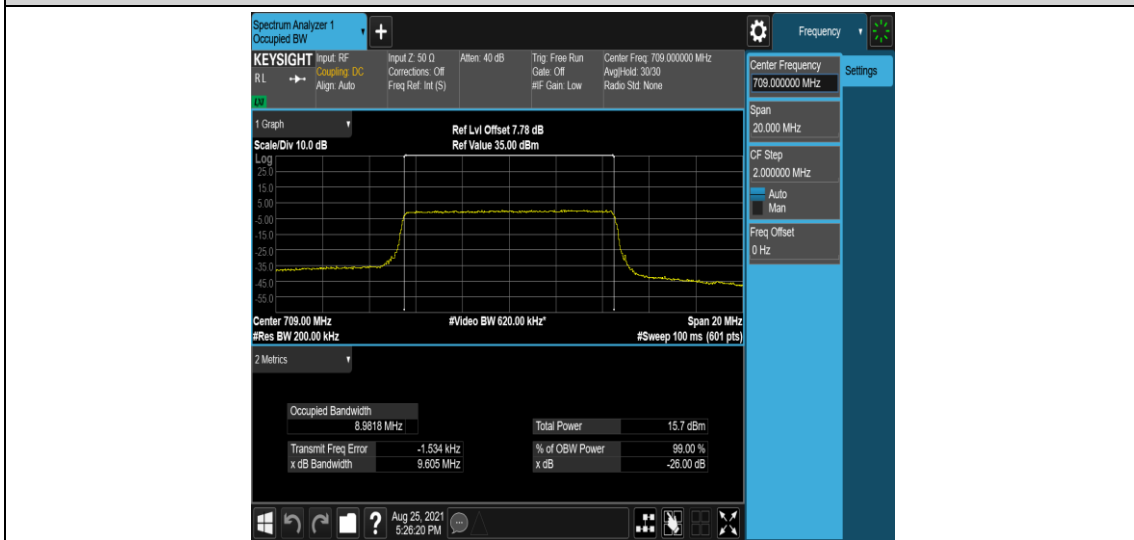




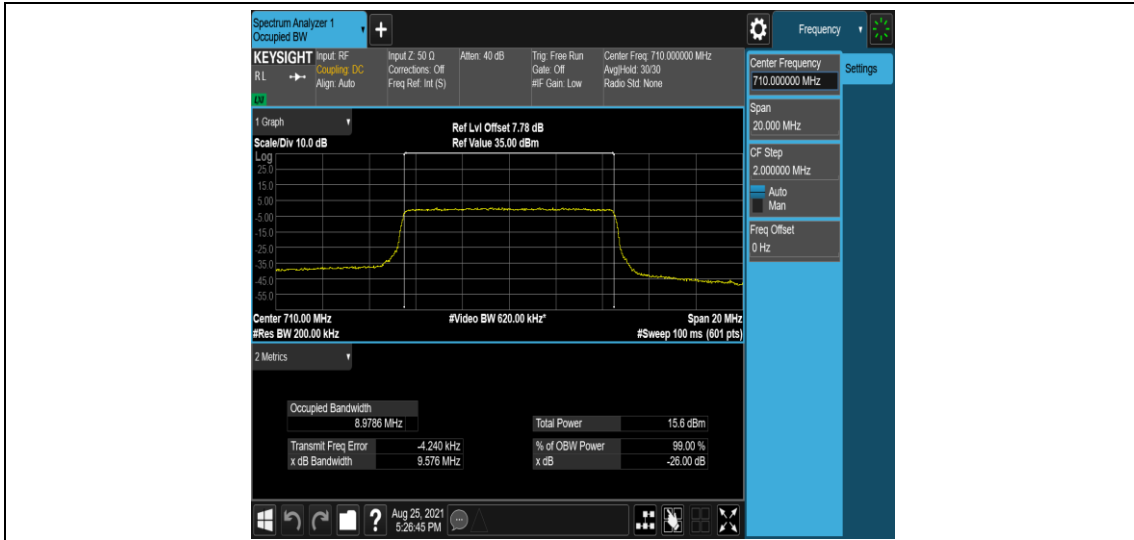
Band17-5MHz-16QAM-23825-25RB#0



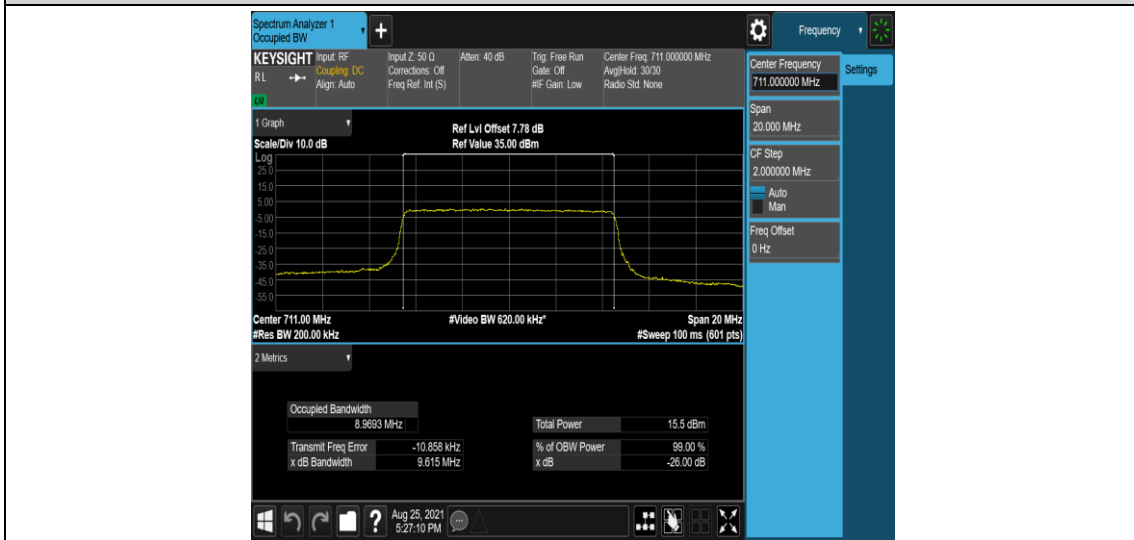
Band17-10MHz-QPSK-23780-50RB#0



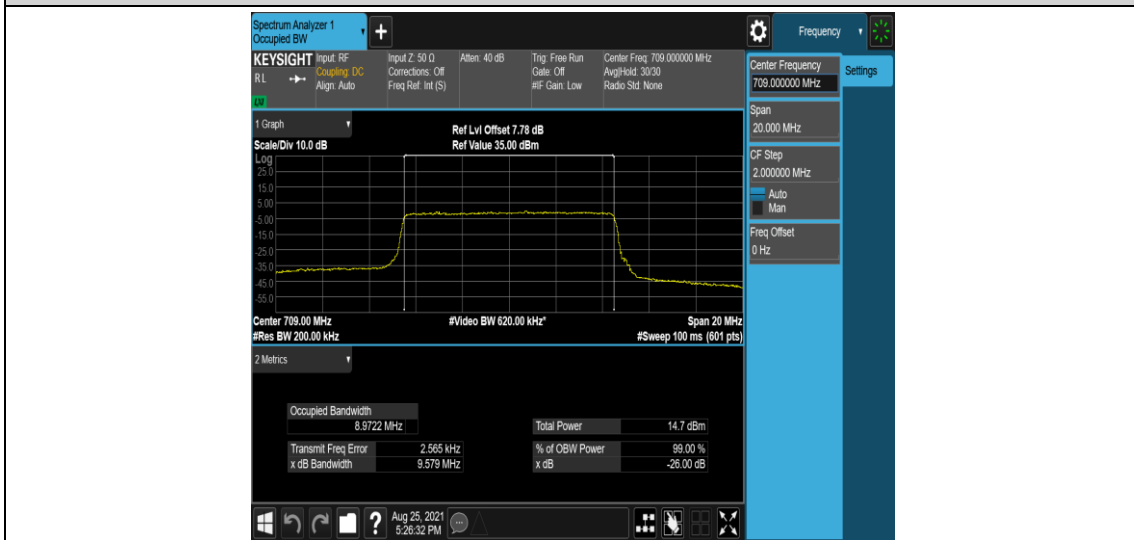
Band17-10MHz-QPSK-23790-50RB#0



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



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



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

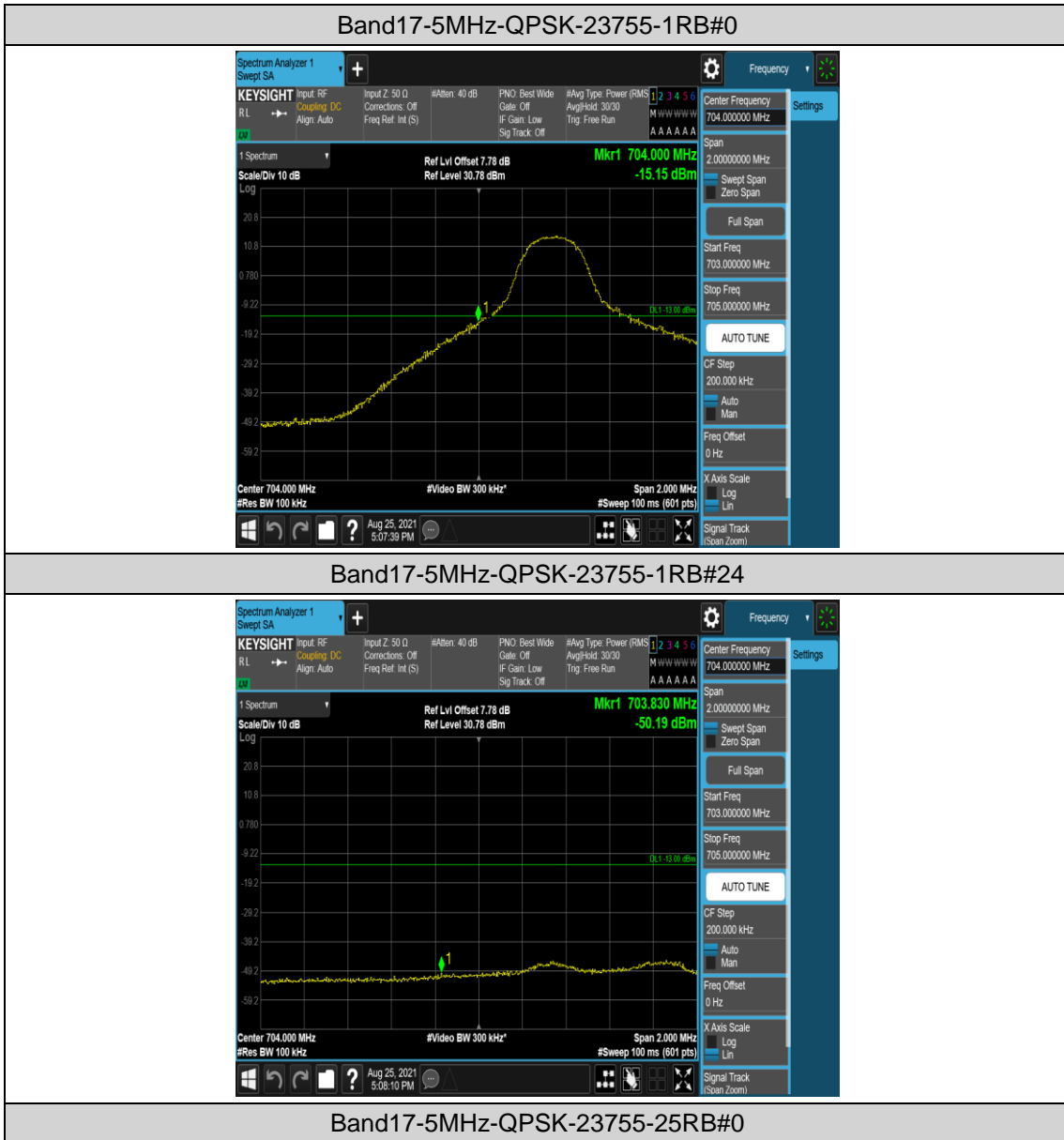


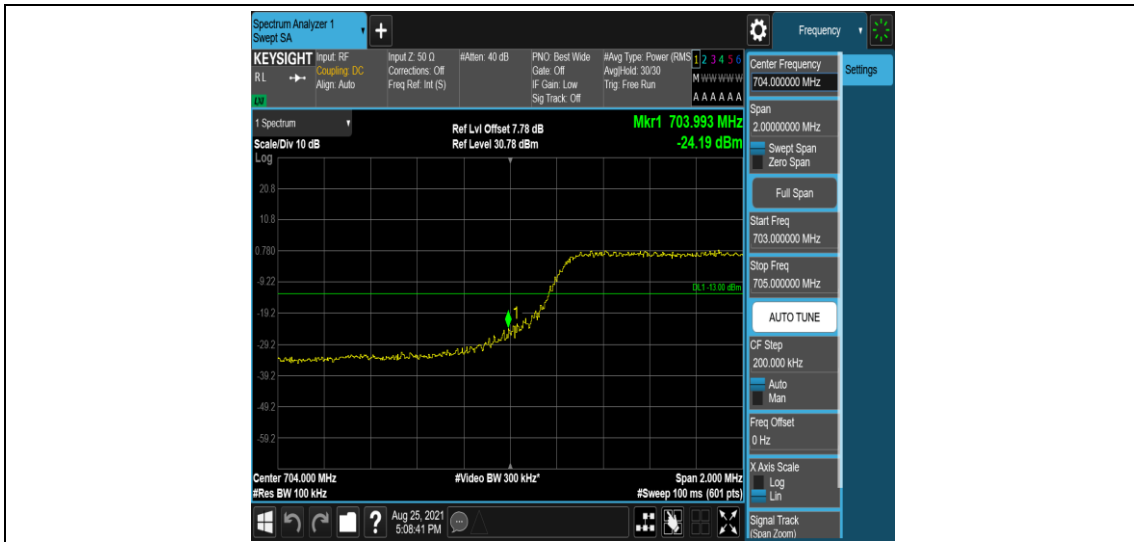
## Appendix D: Band Edge

### Test Result

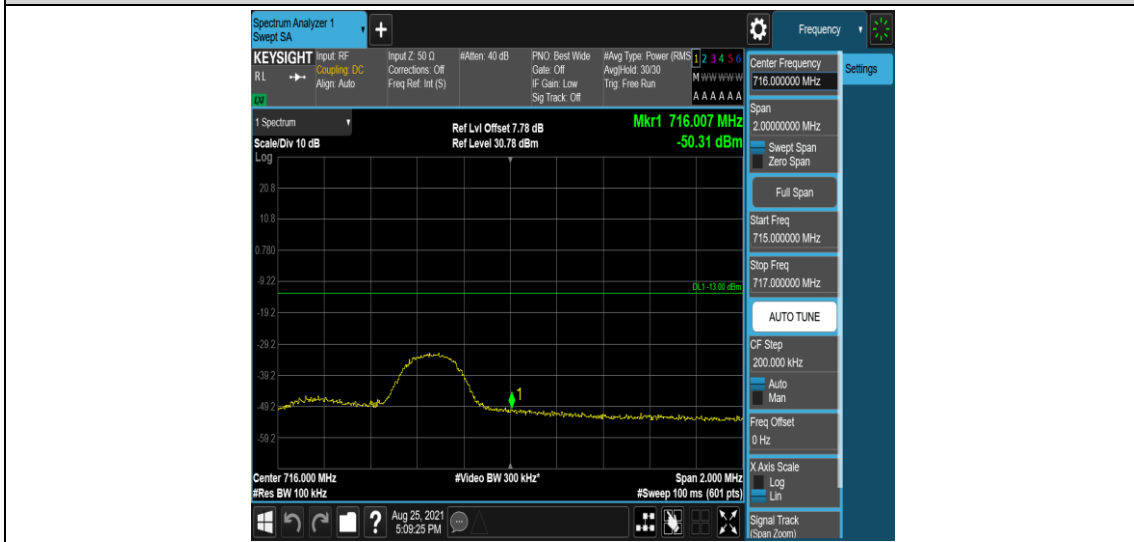
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-15.15	PASS
Band17	5MHz	QPSK	23755	1RB#24	-50.19	PASS
Band17	5MHz	QPSK	23755	25RB#0	-24.19	PASS
Band17	5MHz	QPSK	23825	1RB#0	-50.31	PASS
Band17	5MHz	QPSK	23825	1RB#24	-15.14	PASS
Band17	5MHz	QPSK	23825	25RB#0	-26.45	PASS
Band17	5MHz	16QAM	23755	1RB#0	-14.62	PASS
Band17	5MHz	16QAM	23755	1RB#24	-49.86	PASS
Band17	5MHz	16QAM	23755	25RB#0	-26.14	PASS
Band17	5MHz	16QAM	23825	1RB#0	-49.39	PASS
Band17	5MHz	16QAM	23825	1RB#24	-15.50	PASS
Band17	5MHz	16QAM	23825	25RB#0	-28.00	PASS
Band17	10MHz	QPSK	23780	1RB#0	-20.24,-17.87	PASS
Band17	10MHz	QPSK	23780	1RB#49	-44.20,-49.15	PASS
Band17	10MHz	QPSK	23780	50RB#0	-30.65,-29.42	PASS
Band17	10MHz	QPSK	23800	1RB#0	-47.38,-48.12	PASS
Band17	10MHz	QPSK	23800	1RB#49	-17.65,-20.52	PASS
Band17	10MHz	QPSK	23800	50RB#0	-32.60,-35.64	PASS
Band17	10MHz	16QAM	23780	1RB#0	-20.13,-16.87	PASS
Band17	10MHz	16QAM	23780	1RB#49	-49.24,-48.93	PASS
Band17	10MHz	16QAM	23780	50RB#0	-33.05,-32.01	PASS
Band17	10MHz	16QAM	23800	1RB#0	-48.96,-49.33	PASS
Band17	10MHz	16QAM	23800	1RB#49	-17.56,-20.72	PASS
Band17	10MHz	16QAM	23800	50RB#0	-32.50,-34.97	PASS

### Test Graphs

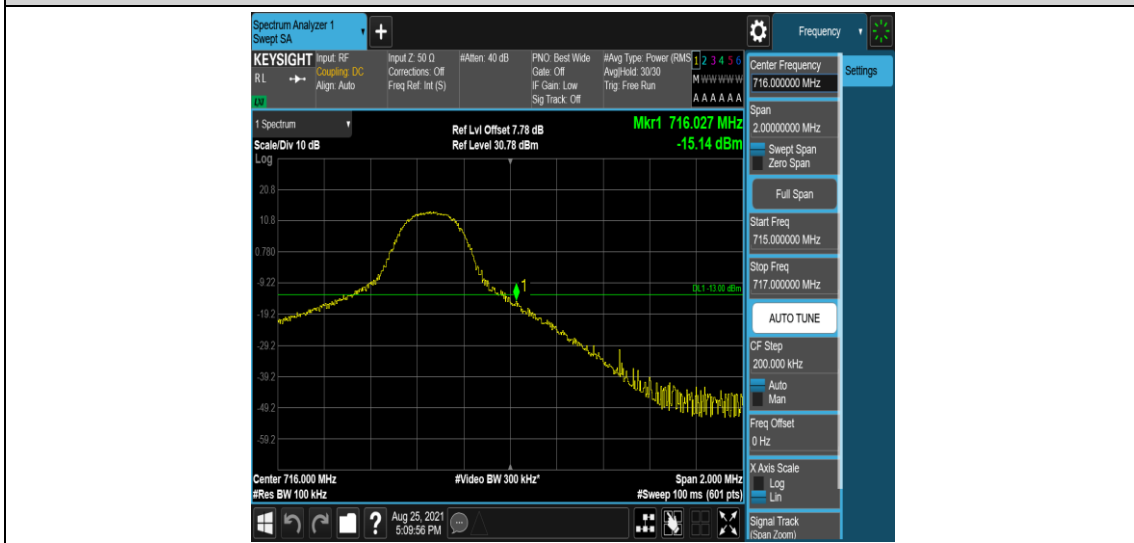




Band17-5MHz-QPSK-23825-1RB#0



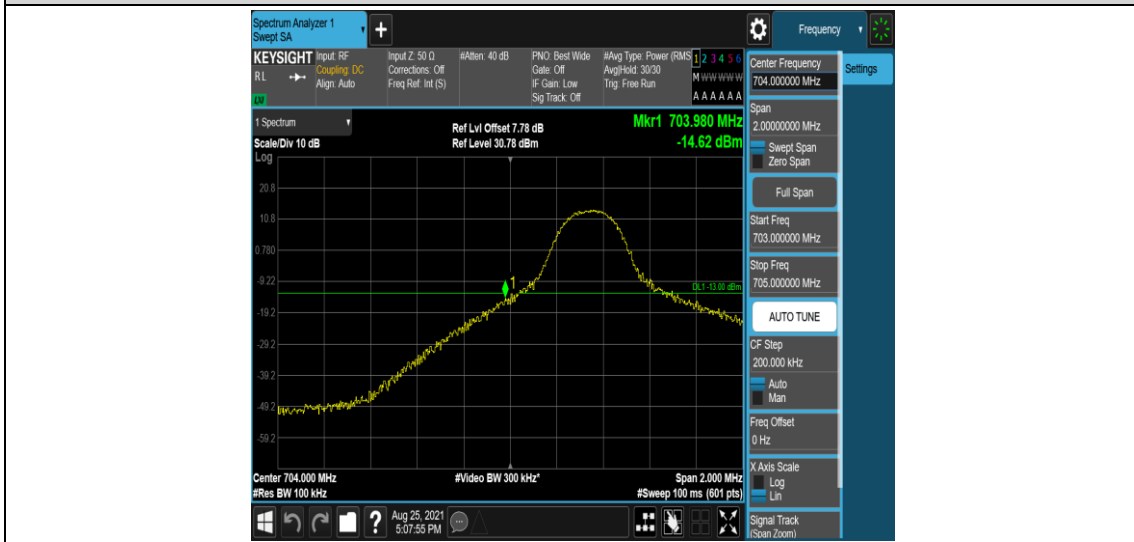
Band17-5MHz-QPSK-23825-1RB#24



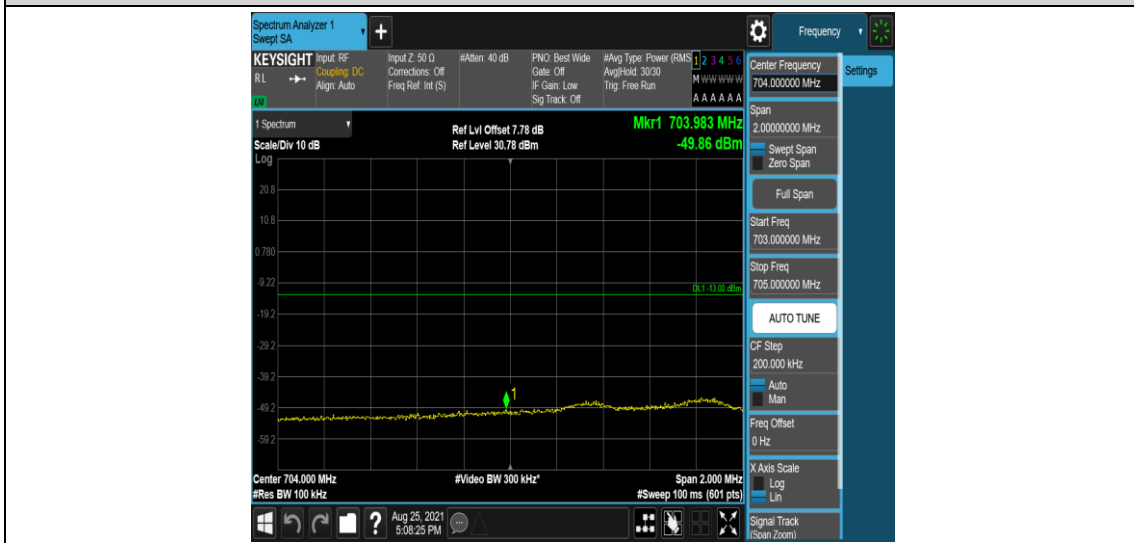
Band17-5MHz-QPSK-23825-25RB#0



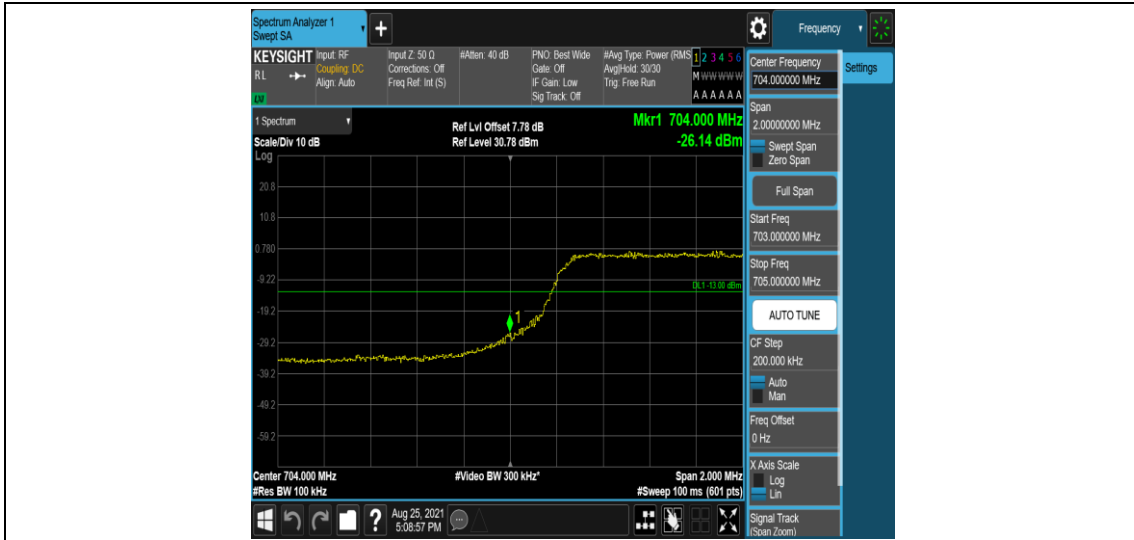
Band17-5MHz-16QAM-23755-1RB#0



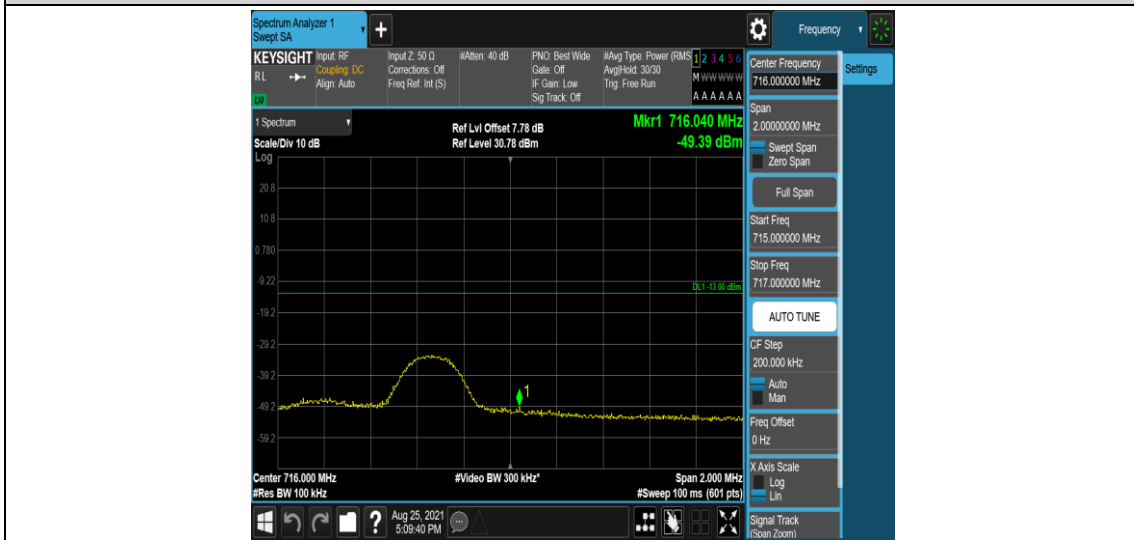
Band17-5MHz-16QAM-23755-1RB#24



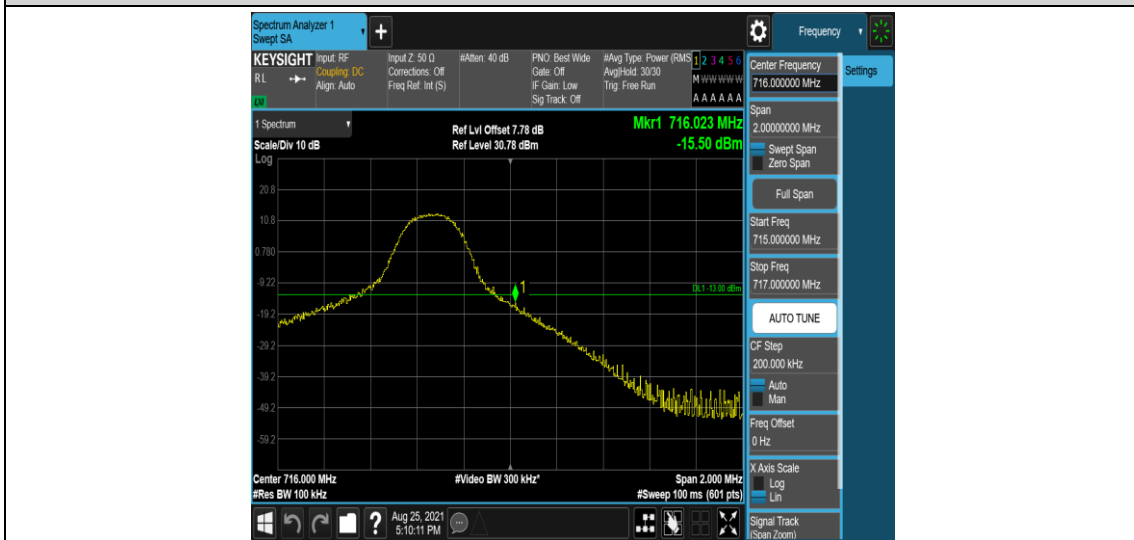
Band17-5MHz-16QAM-23755-25RB#0



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

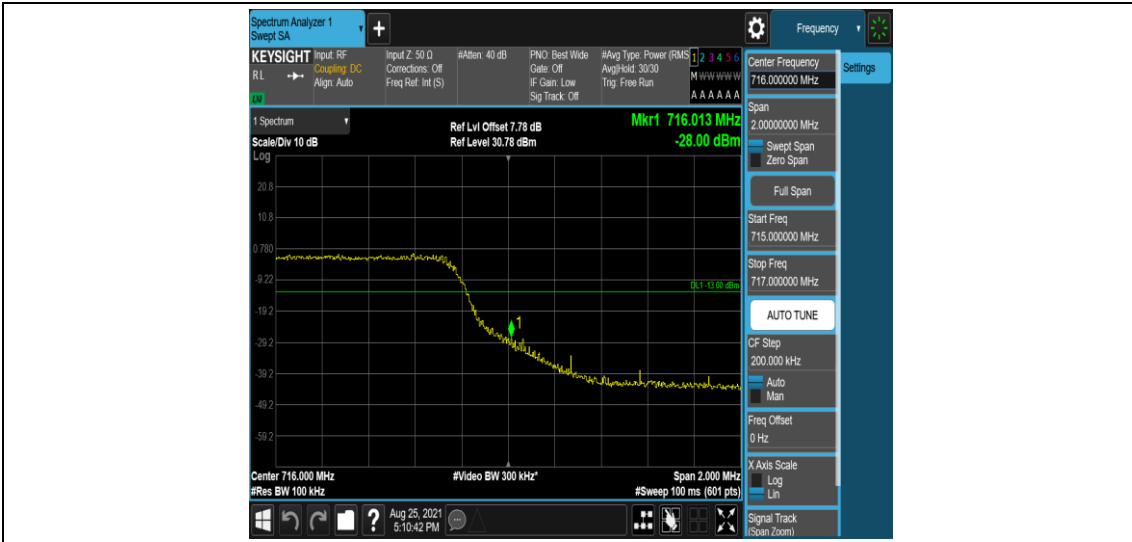


Band17-5MHz-16QAM-23825-1RB#24



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





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



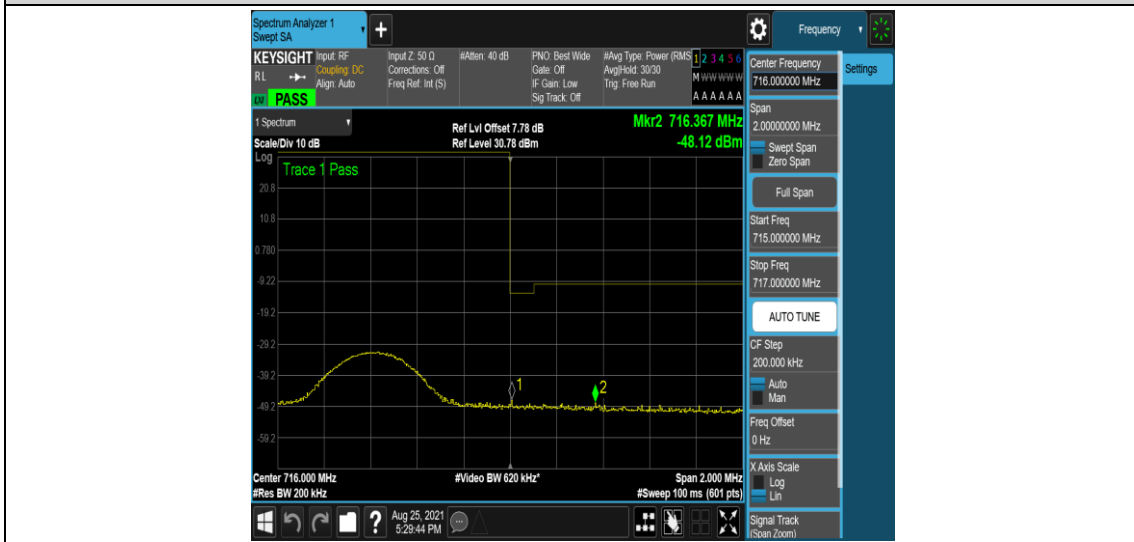
Band17-10MHz-QPSK-23780-1RB#49



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



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



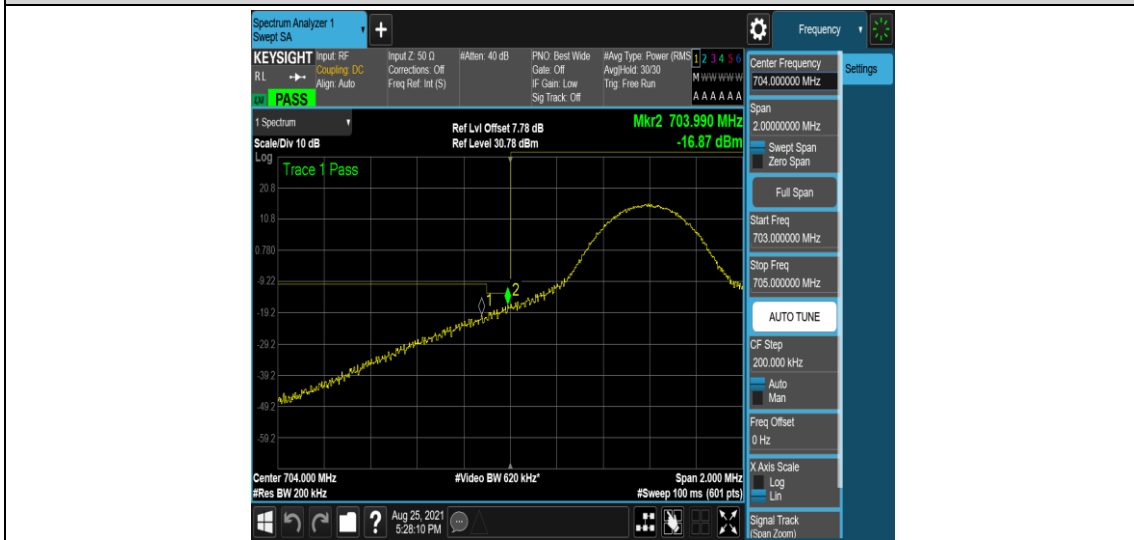
Band17-10MHz-QPSK-23800-1RB#49



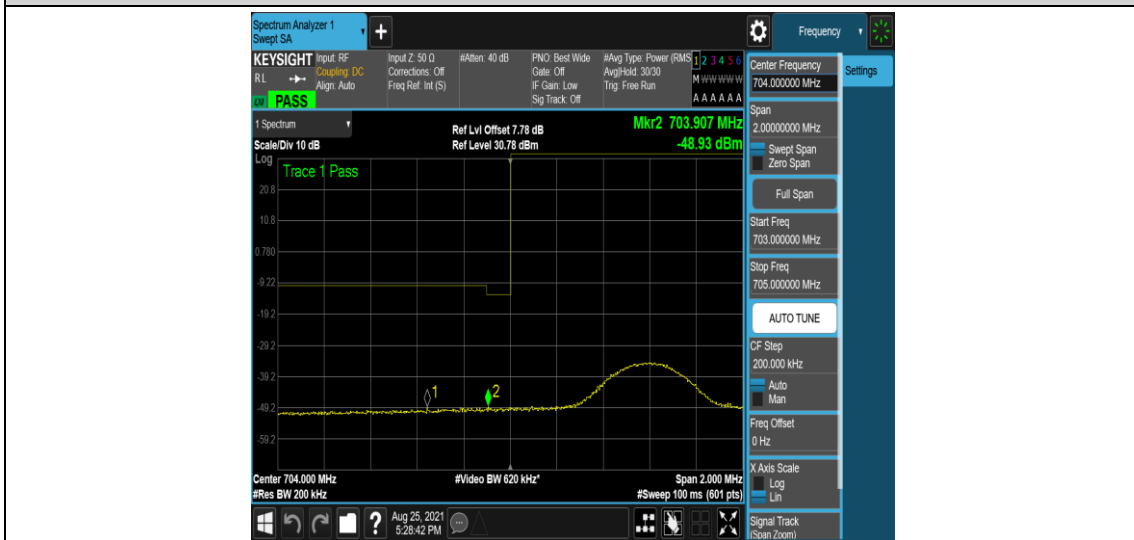
Band17-10MHz-QPSK-23800-50RB#0



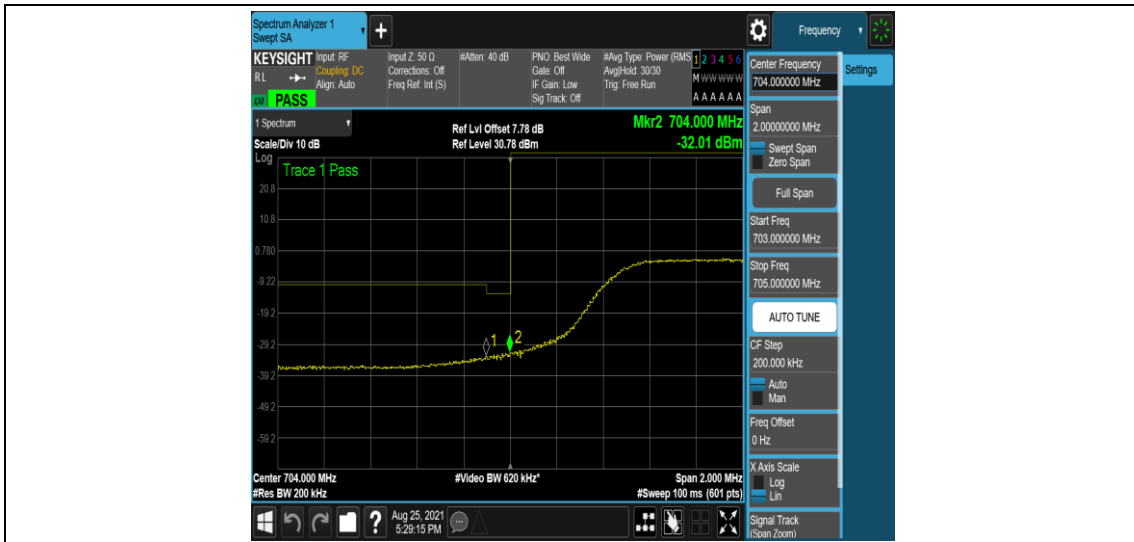
Band17-10MHz-16QAM-23780-1RB#0



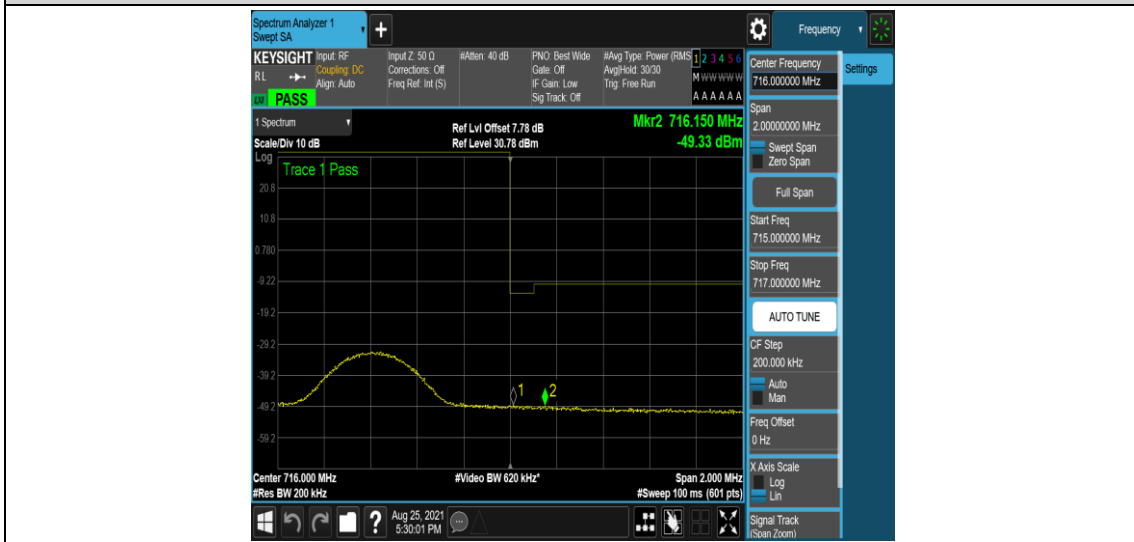
Band17-10MHz-16QAM-23780-1RB#49



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



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



Band17-10MHz-16QAM-23800-1RB#49



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

