

## **Appendix for Band 17**

Product Name: GNSS Vehicle Terminal  
Model No: JM-VL03

## Appendix A: Average Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	21.64	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.14	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.37	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.94	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.88	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.16	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.06	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.23	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.17	PASS
Band17	5MHz	QPSK	23790	1RB#24	21.75	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.33	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.28	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.09	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.21	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.56	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.63	PASS
Band17	5MHz	QPSK	23825	1RB#24	21.26	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.17	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.13	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.33	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.83	PASS
Band17	5MHz	16QAM	23755	1RB#0	20.53	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.96	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.27	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.93	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.88	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.26	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.06	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.33	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.37	PASS
Band17	5MHz	16QAM	23790	1RB#24	20.80	PASS

Band17	5MHz	16QAM	23790	12RB#0	22.40	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.38	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.18	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.21	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.46	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.53	PASS
Band17	5MHz	16QAM	23825	1RB#24	20.15	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.20	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.17	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.50	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.83	PASS
Band17	10MHz	QPSK	23780	1RB#0	21.80	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.56	PASS
Band17	10MHz	QPSK	23780	1RB#49	21.32	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.26	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.35	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.17	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.27	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.05	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.49	PASS
Band17	10MHz	QPSK	23790	1RB#49	21.02	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.43	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.41	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.92	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.18	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.14	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.39	PASS
Band17	10MHz	QPSK	23800	1RB#49	20.73	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.47	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.50	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.63	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.10	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.04	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.70	PASS
Band17	10MHz	16QAM	23780	1RB#49	20.61	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.33	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.30	PASS

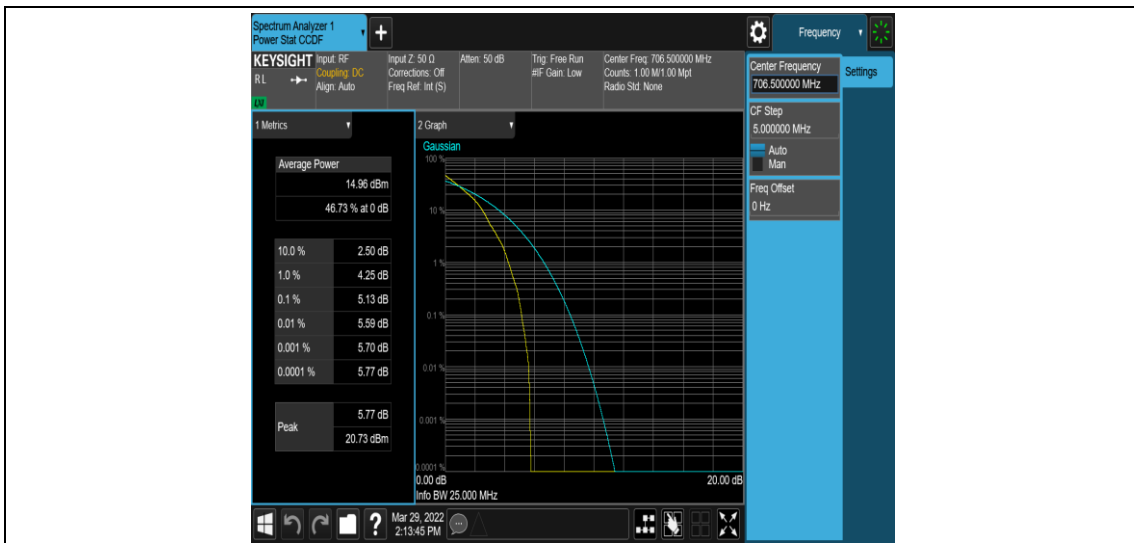
Band17	10MHz	16QAM	23780	25RB#25	22.25	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.05	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.12	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.69	PASS
Band17	10MHz	16QAM	23790	1RB#49	20.13	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.51	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.35	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.96	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.64	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.28	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.58	PASS
Band17	10MHz	16QAM	23800	1RB#49	19.94	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.54	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.46	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.73	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.39	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	5.13	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.21	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	5.21	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.50	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.46	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.51	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.73	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	5.97	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.69	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.22	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	6.09	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.26	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.23	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.42	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	8.46	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.47	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.07	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	8.46	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.44	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.84	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.45	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	8.44	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.44	13	PASS

### Test Graphs

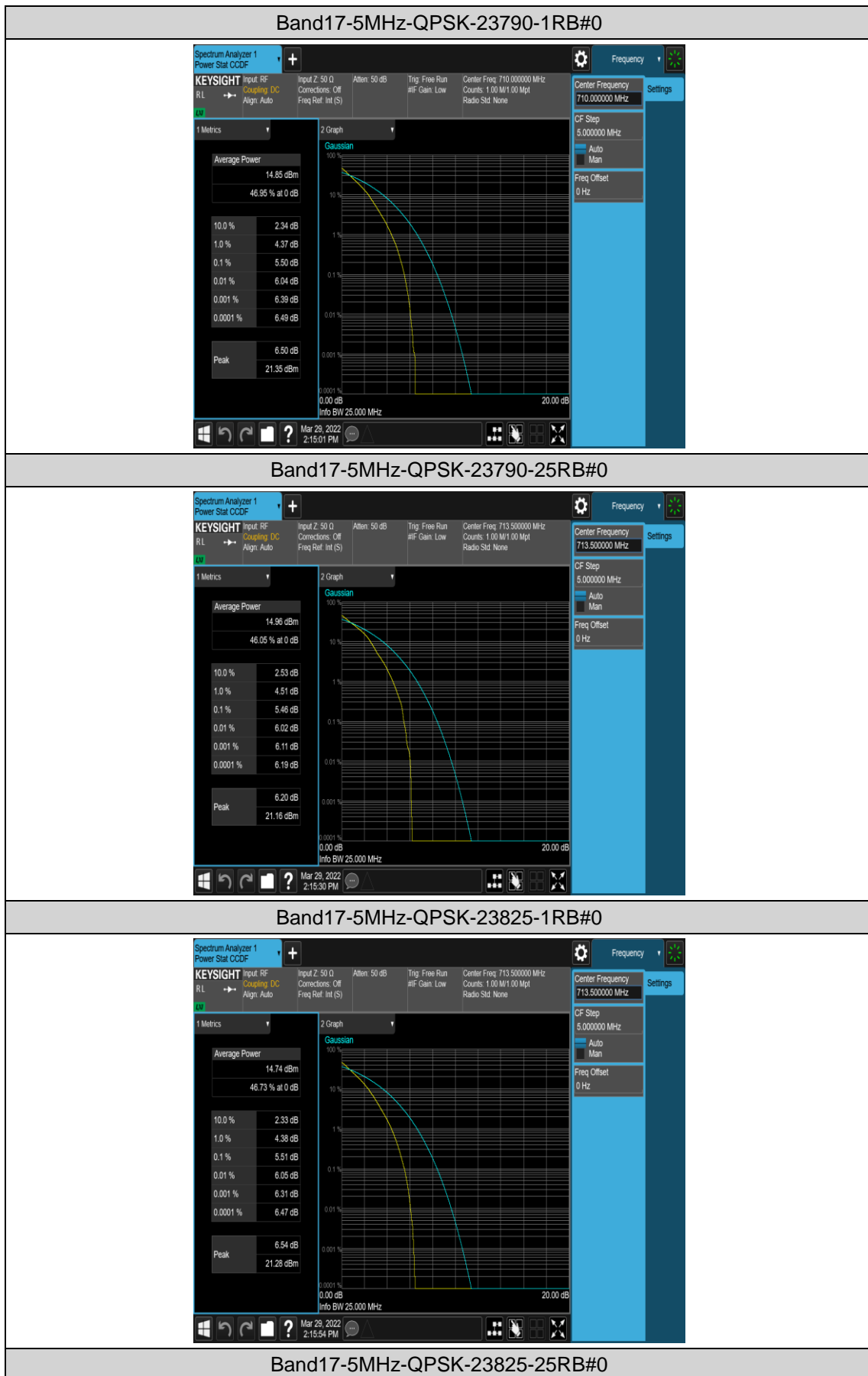


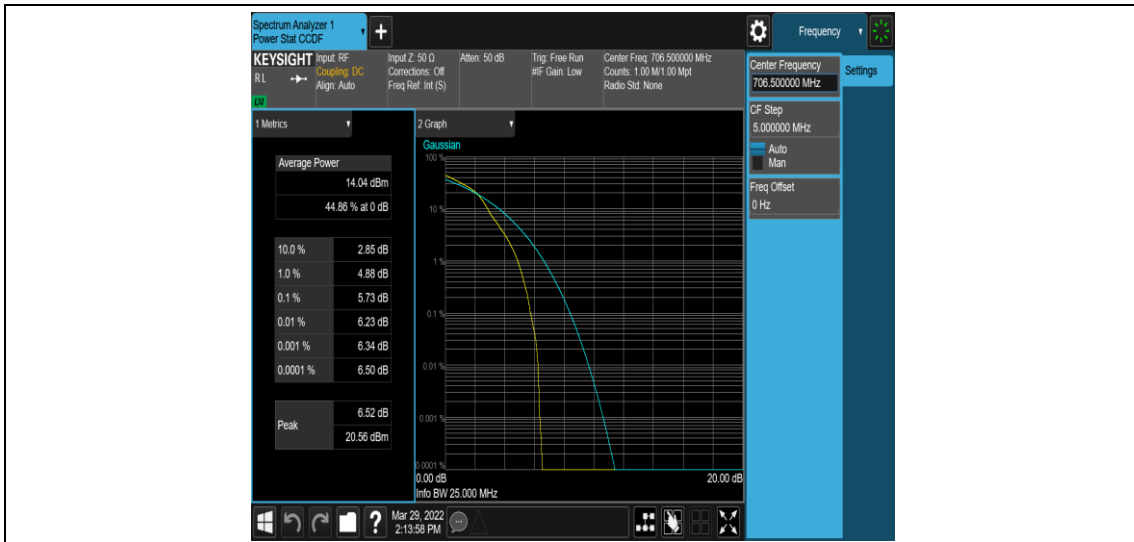
Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0







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



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



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





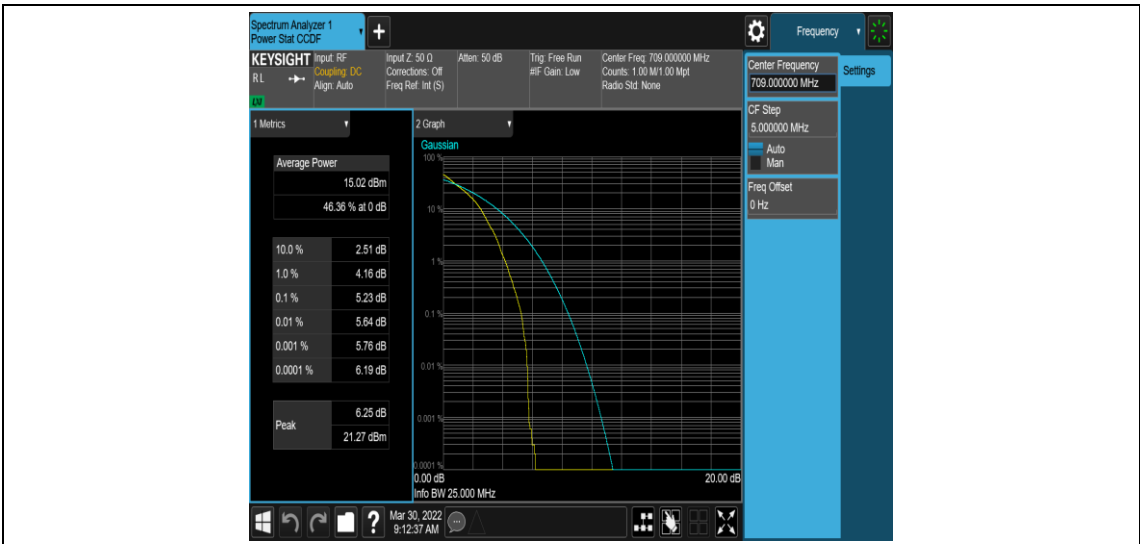
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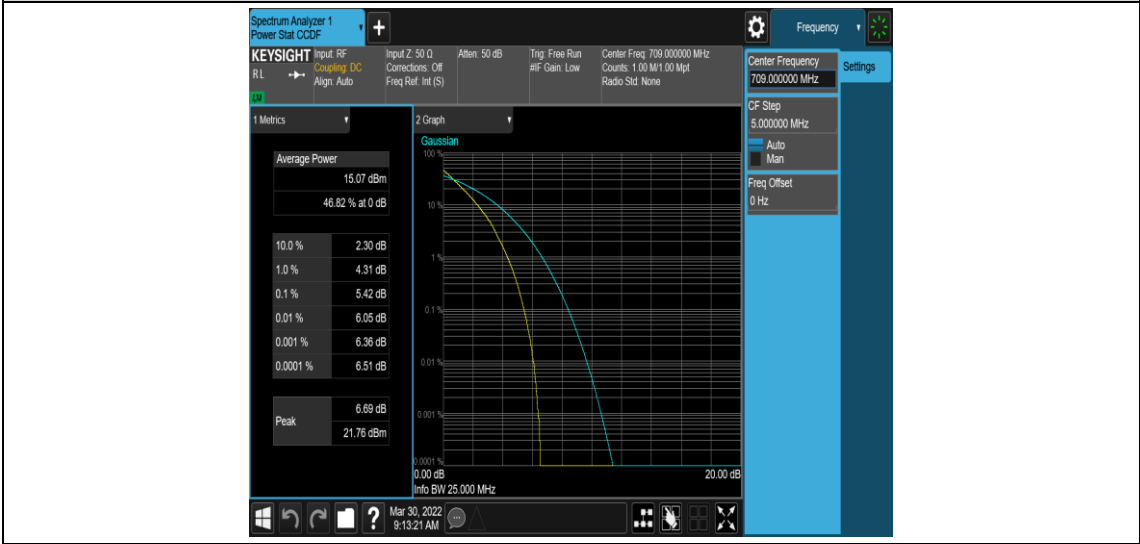
Band17-5MHz-16QAM-23825-1RB#0



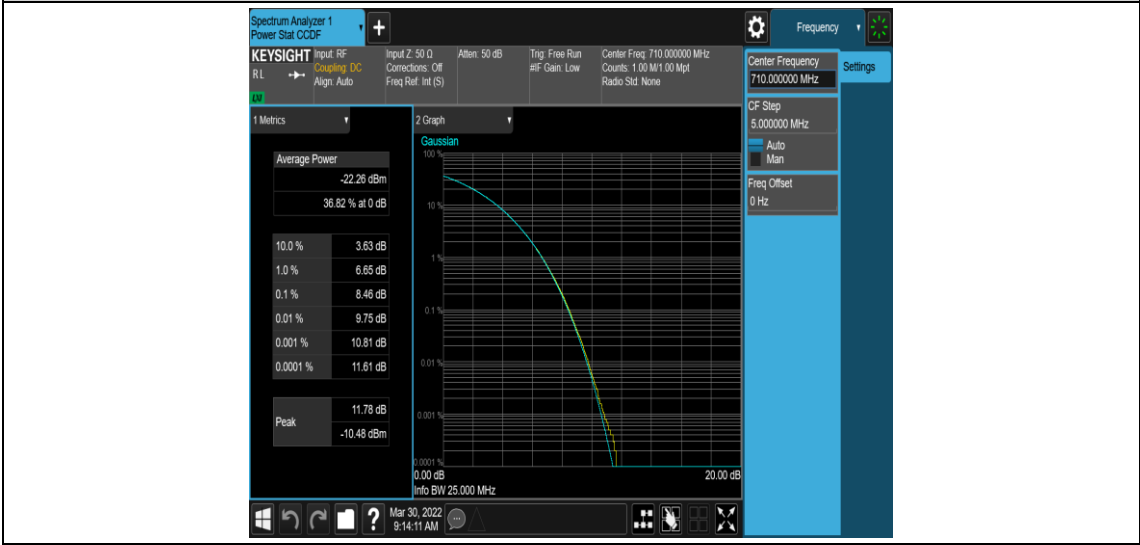
Band17-5MHz-16QAM-23825-25RB#0



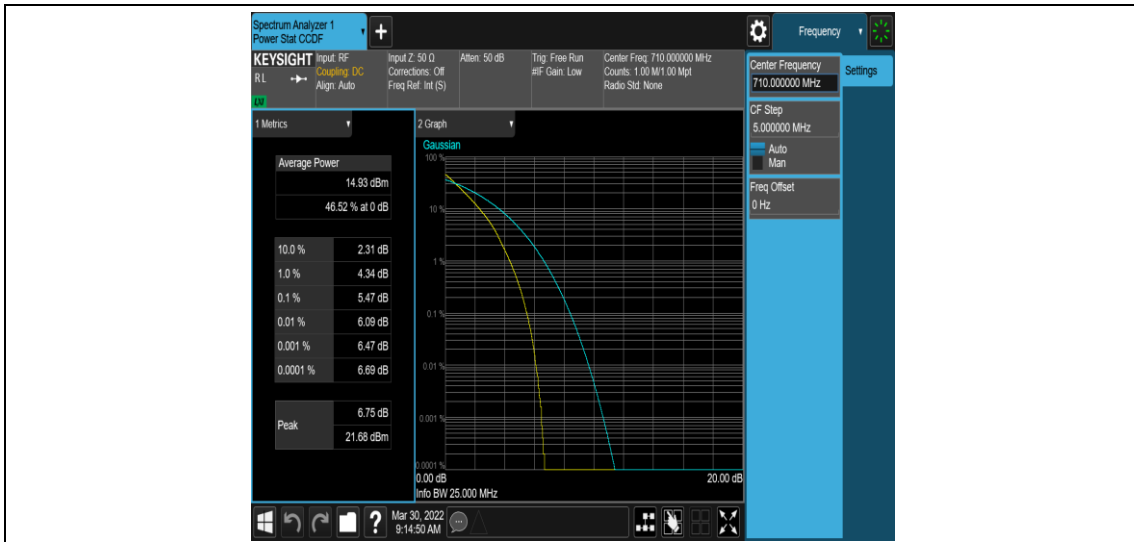
Band17-10MHz-QPSK-23780-1RB#0



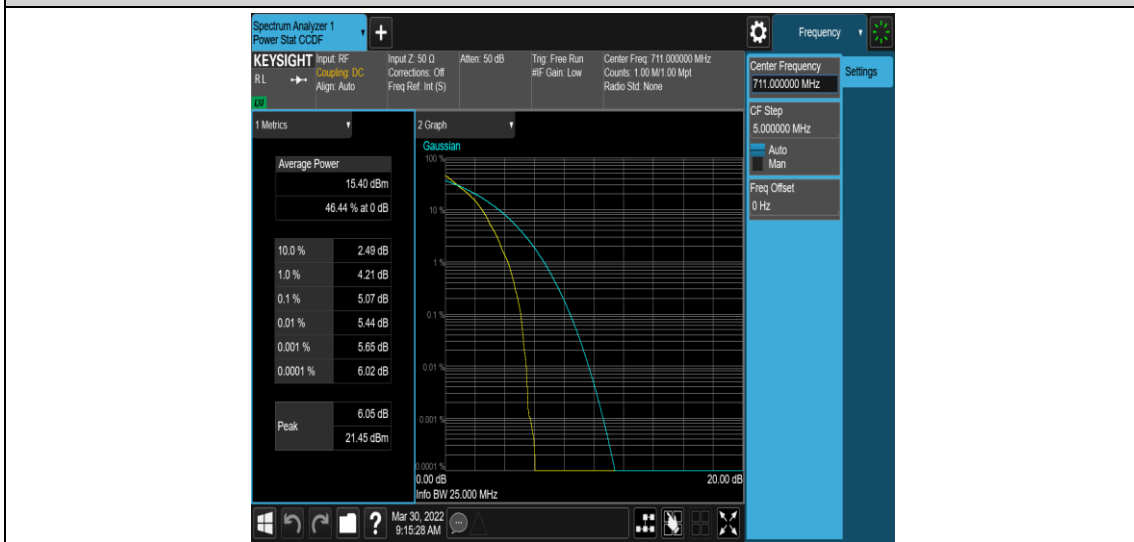
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Band17-10MHz-QPSK-23790-1RB#0



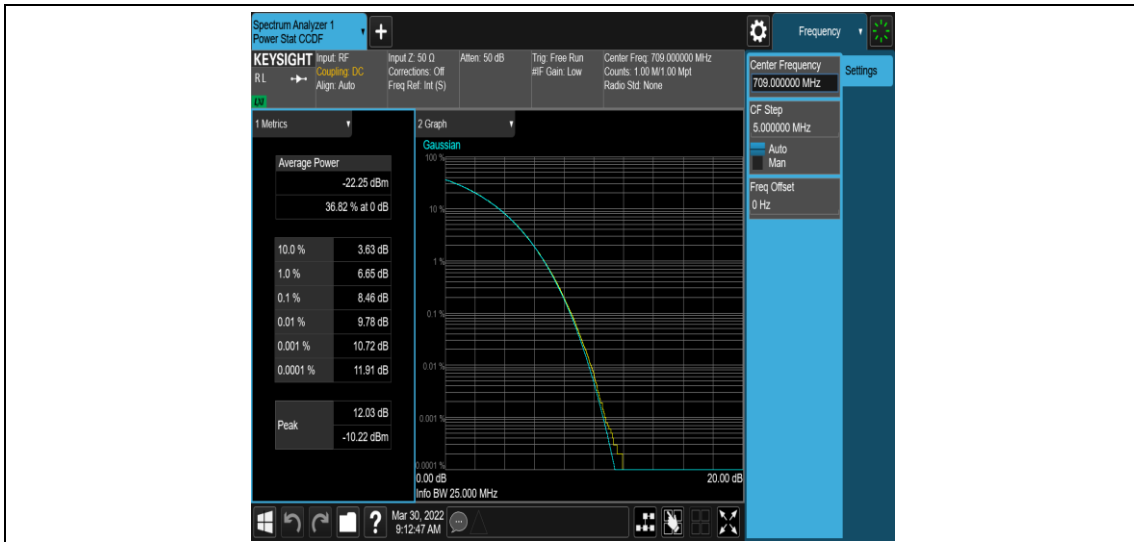
Band17-10MHz-QPSK-23790-50RB#0



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



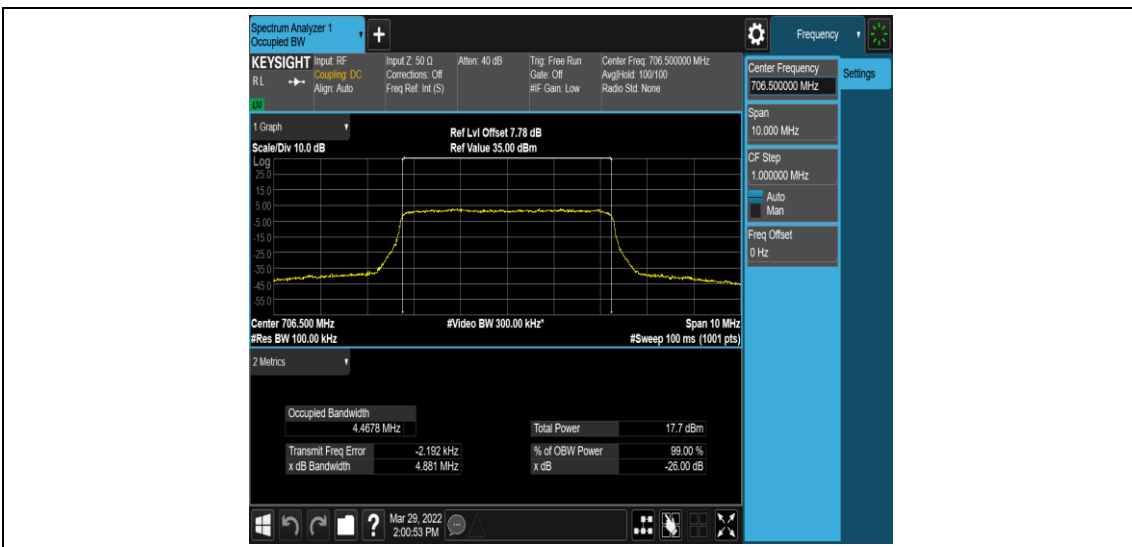
Band17-10MHz-16QAM-23800-50RB#0

## Appendix C: 26dB Bandwidth and Occupied Bandwidth

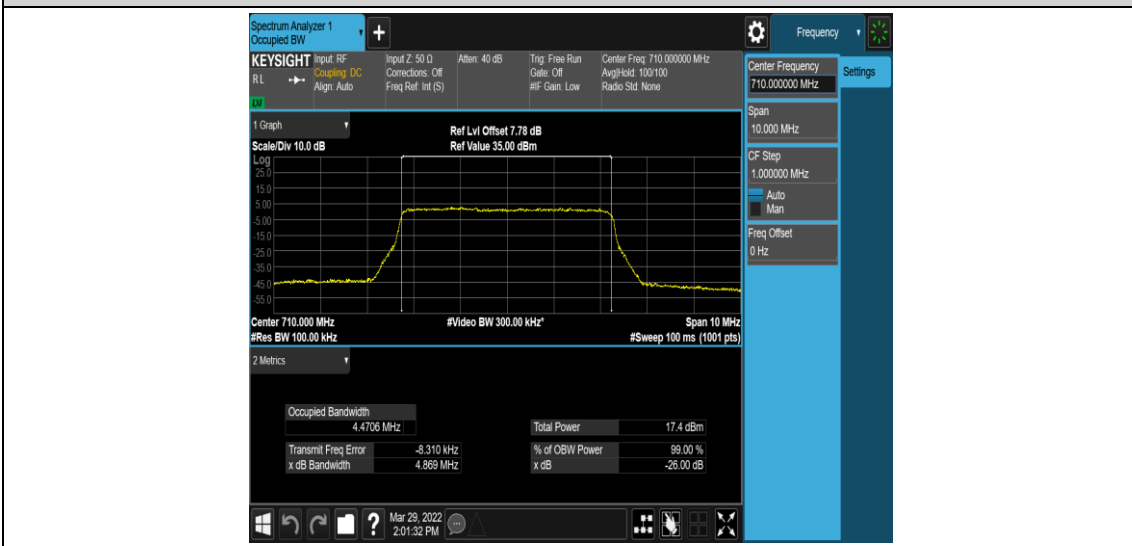
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.4678	4.881	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.4706	4.869	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4702	4.873	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.4714	4.870	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.4756	4.895	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.4724	4.916	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9147	9.490	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9185	9.513	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9184	9.494	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0034	9.619	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9984	9.544	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9971	9.535	PASS

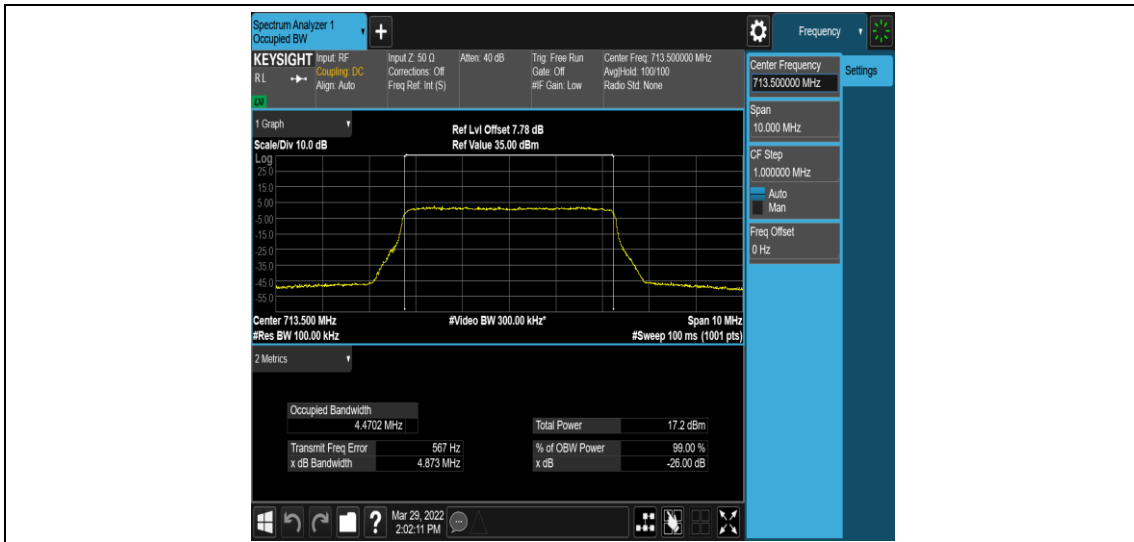
### Test Graphs



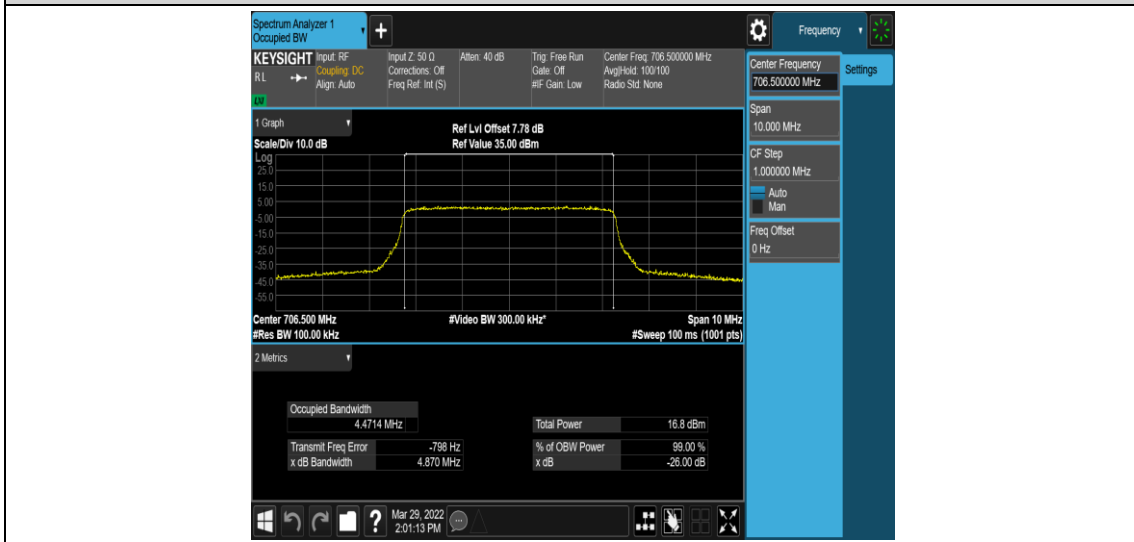
Band17-5MHz-QPSK-23755-25RB#0



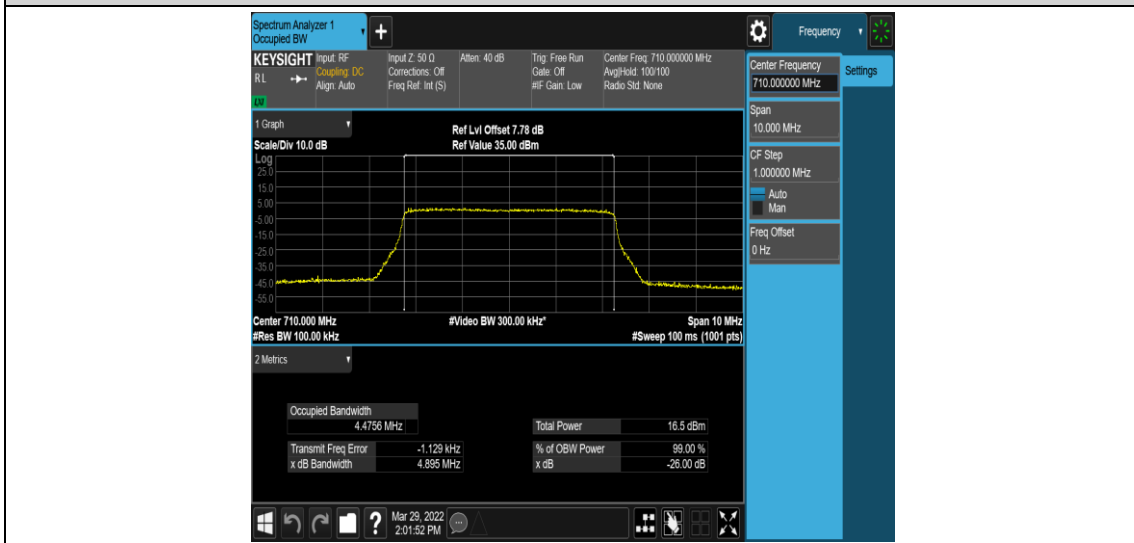
Band17-5MHz-QPSK-23790-25RB#0



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

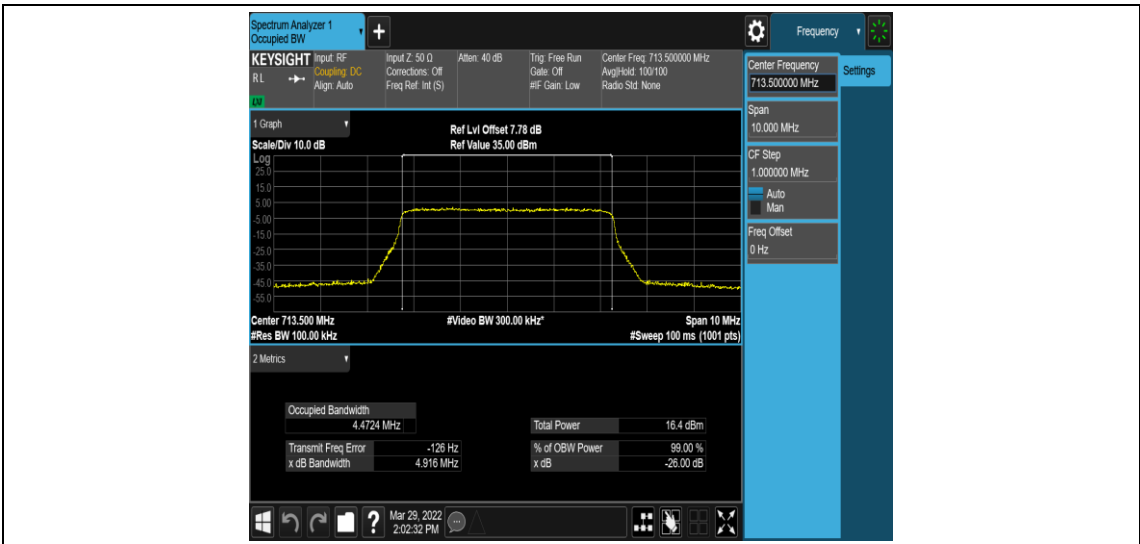


Band17-5MHz-16QAM-23755-25RB#0

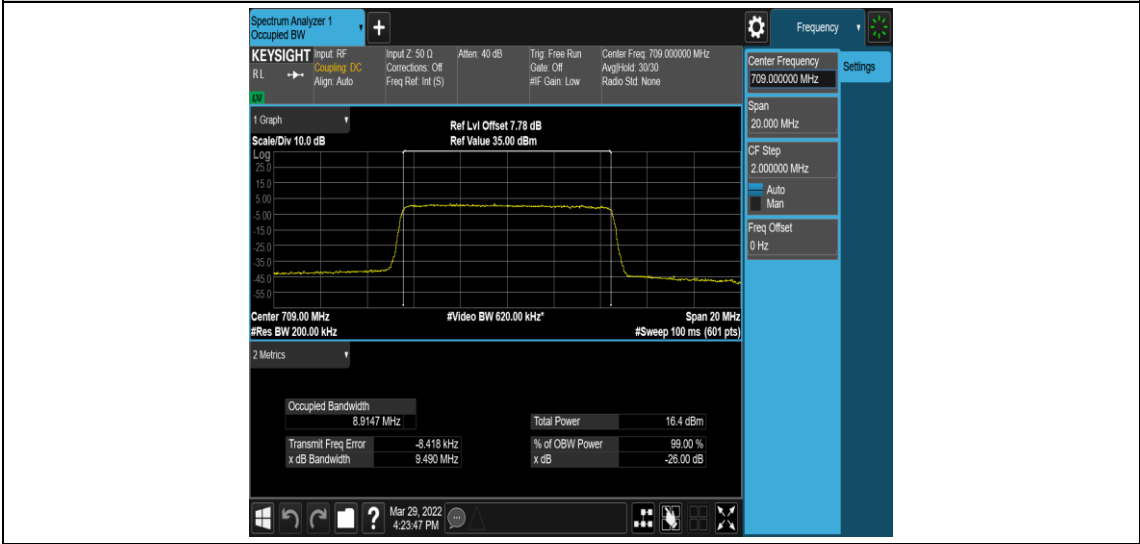


Band17-5MHz-16QAM-23790-25RB#0

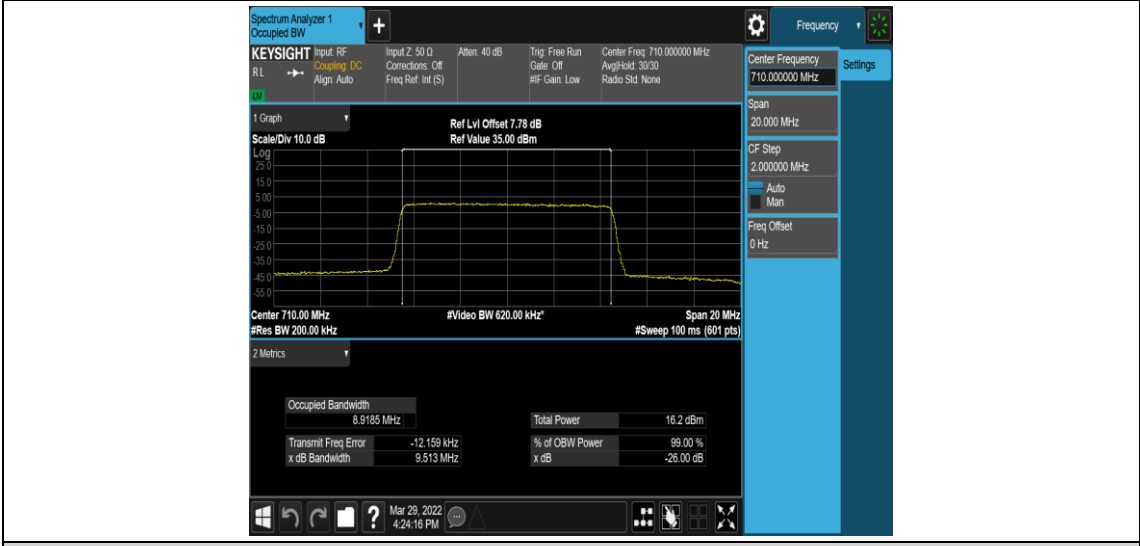




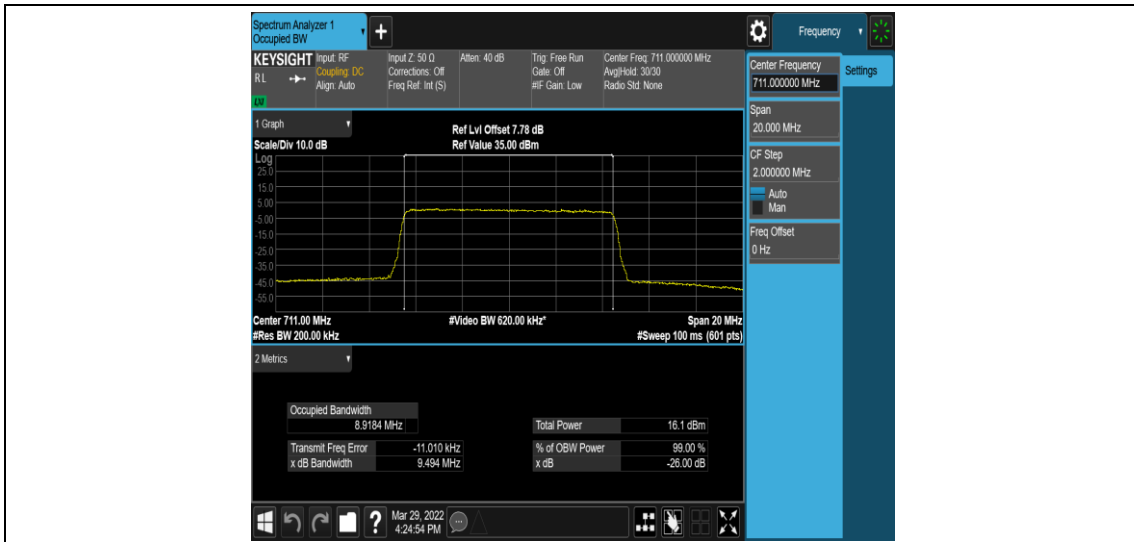
Band17-5MHz-16QAM-23825-25RB#0



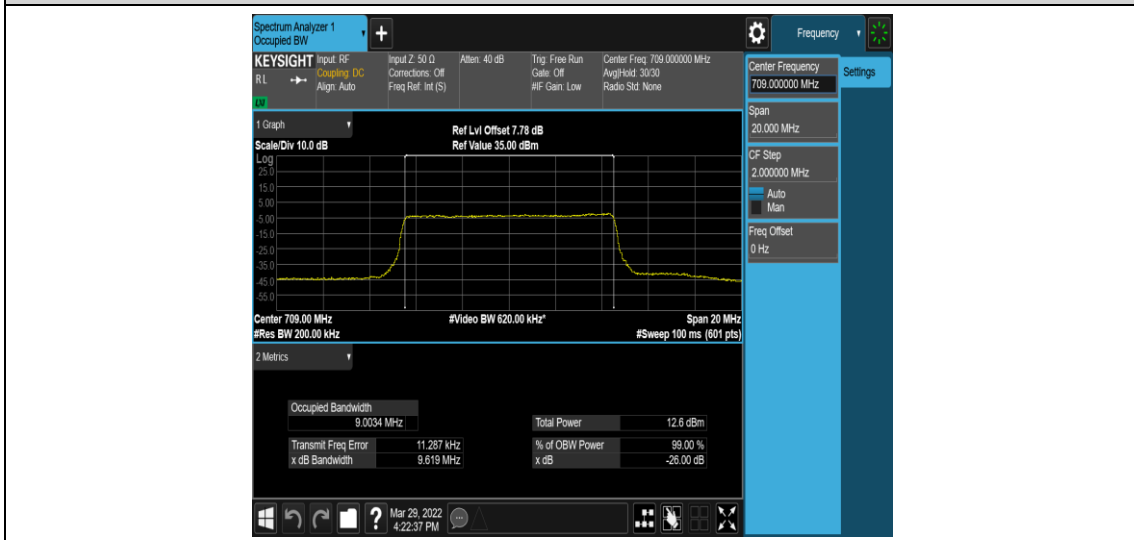
Band17-10MHz-QPSK-23780-50RB#0



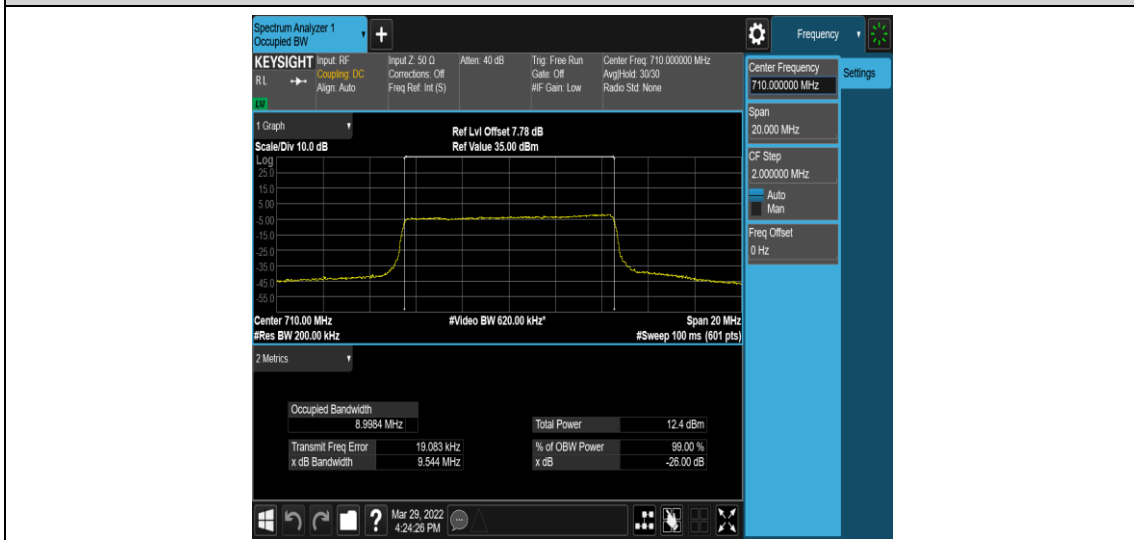
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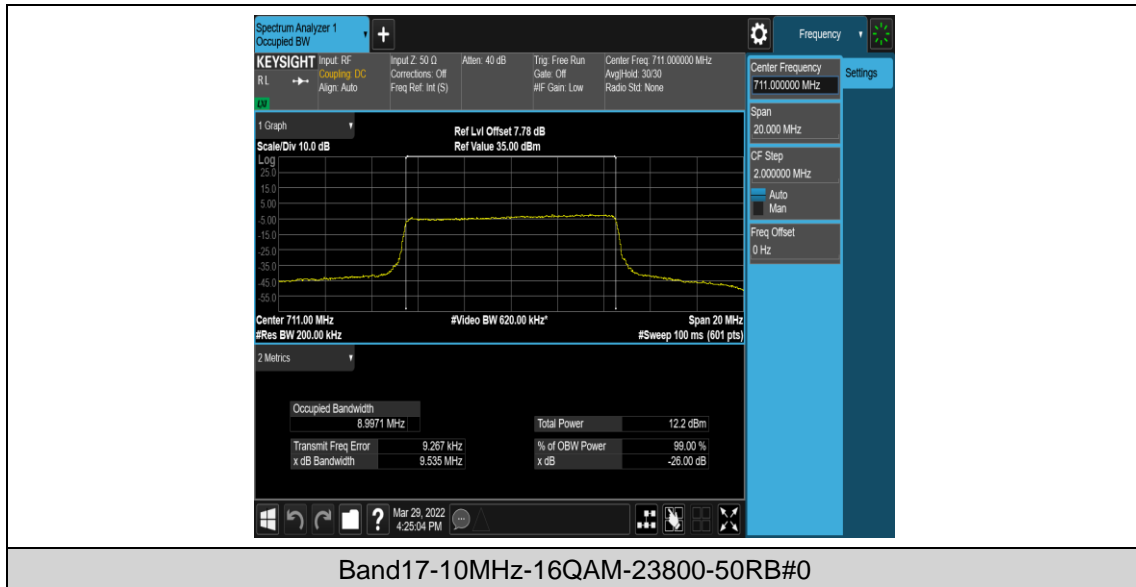
Band17-10MHz-QPSK-23800-50RB#0



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



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



## Appendix D: Band Edge

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band17	5MHz	QPSK	23755	1RB#0	PASS
Band17	5MHz	QPSK	23755	1RB#24	PASS
Band17	5MHz	QPSK	23755	25RB#0	PASS
Band17	5MHz	QPSK	23825	1RB#0	PASS
Band17	5MHz	QPSK	23825	1RB#24	PASS
Band17	5MHz	QPSK	23825	25RB#0	PASS
Band17	5MHz	16QAM	23755	1RB#0	PASS
Band17	5MHz	16QAM	23755	1RB#24	PASS
Band17	5MHz	16QAM	23755	25RB#0	PASS
Band17	5MHz	16QAM	23825	1RB#0	PASS
Band17	5MHz	16QAM	23825	1RB#24	PASS
Band17	5MHz	16QAM	23825	25RB#0	PASS
Band17	10MHz	QPSK	23780	1RB#0	PASS
Band17	10MHz	QPSK	23780	1RB#49	PASS
Band17	10MHz	QPSK	23780	50RB#0	PASS
Band17	10MHz	QPSK	23800	1RB#0	PASS
Band17	10MHz	QPSK	23800	1RB#49	PASS
Band17	10MHz	QPSK	23800	50RB#0	PASS
Band17	10MHz	16QAM	23780	1RB#0	PASS
Band17	10MHz	16QAM	23780	1RB#49	PASS
Band17	10MHz	16QAM	23780	50RB#0	PASS
Band17	10MHz	16QAM	23800	1RB#0	PASS
Band17	10MHz	16QAM	23800	1RB#49	PASS
Band17	10MHz	16QAM	23800	50RB#0	PASS

### Test Graphs



Band17-5MHz-QPSK-23755-1RB#0



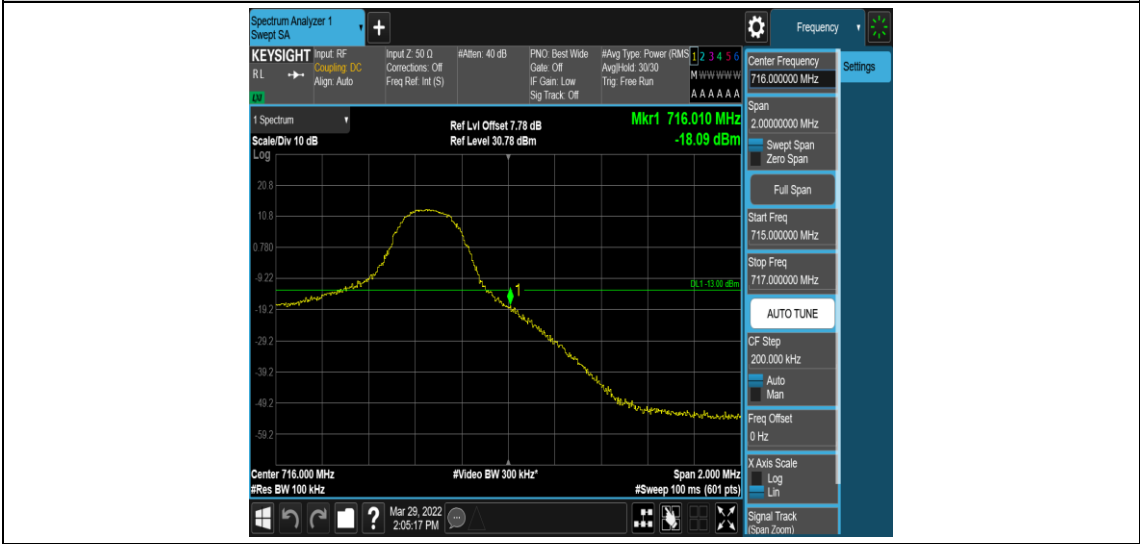
Band17-5MHz-QPSK-23755-1RB#24



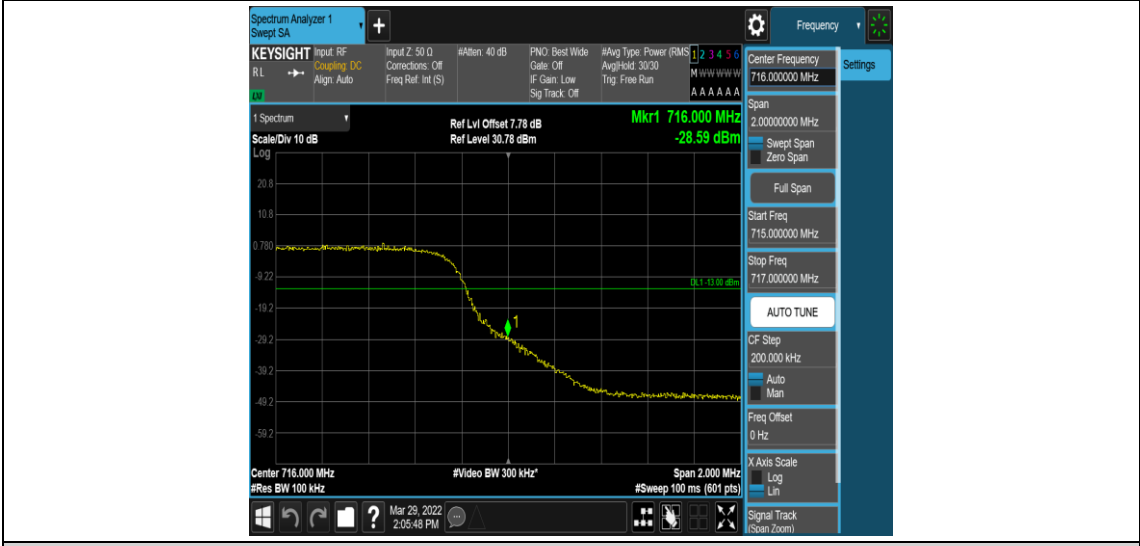
Band17-5MHz-QPSK-23755-25RB#0



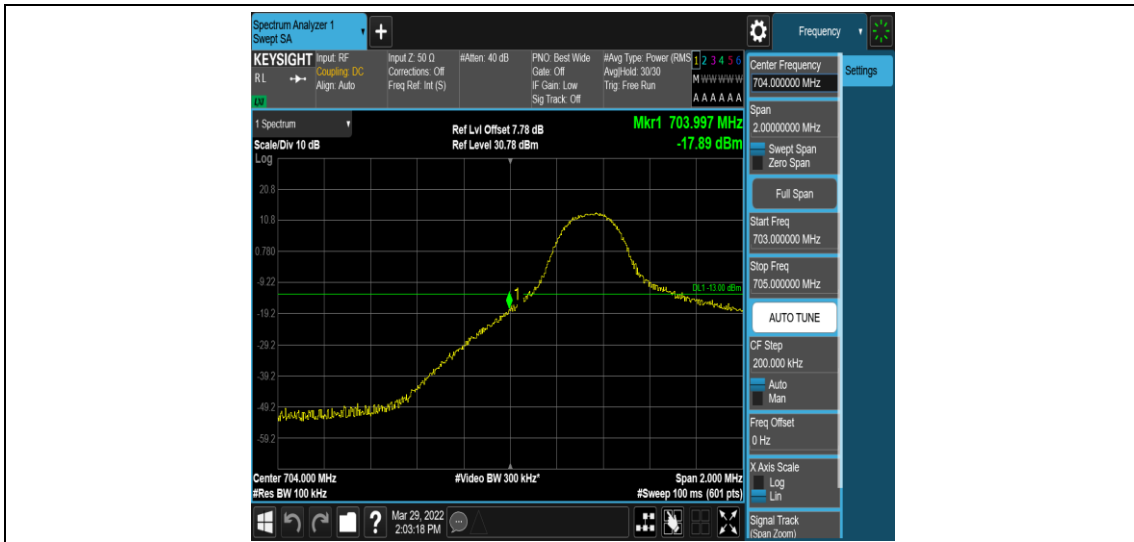
Band17-5MHz-QPSK-23825-1RB#0



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



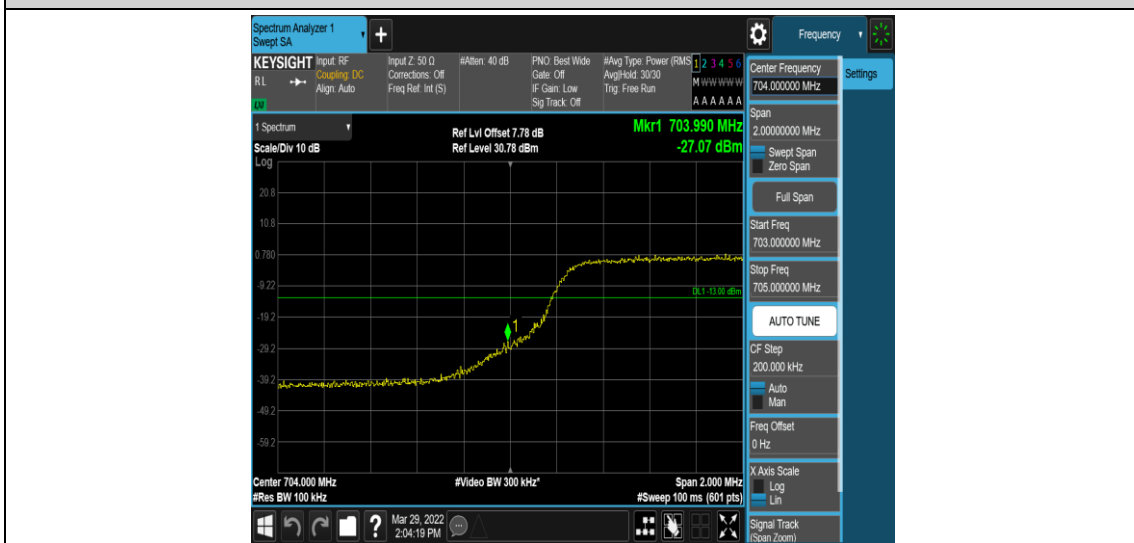
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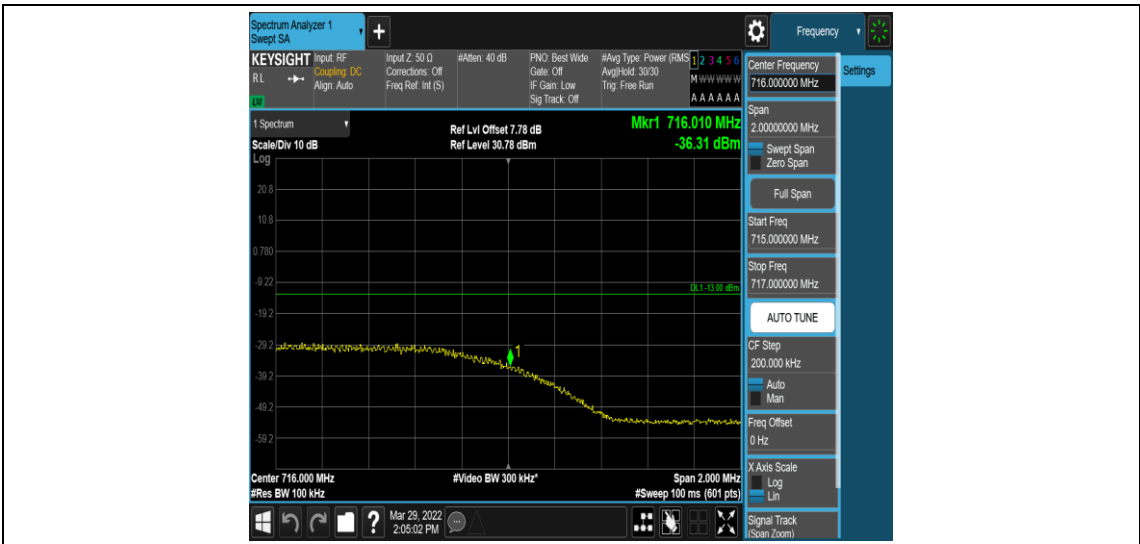
Band17-5MHz-16QAM-23755-1RB#0



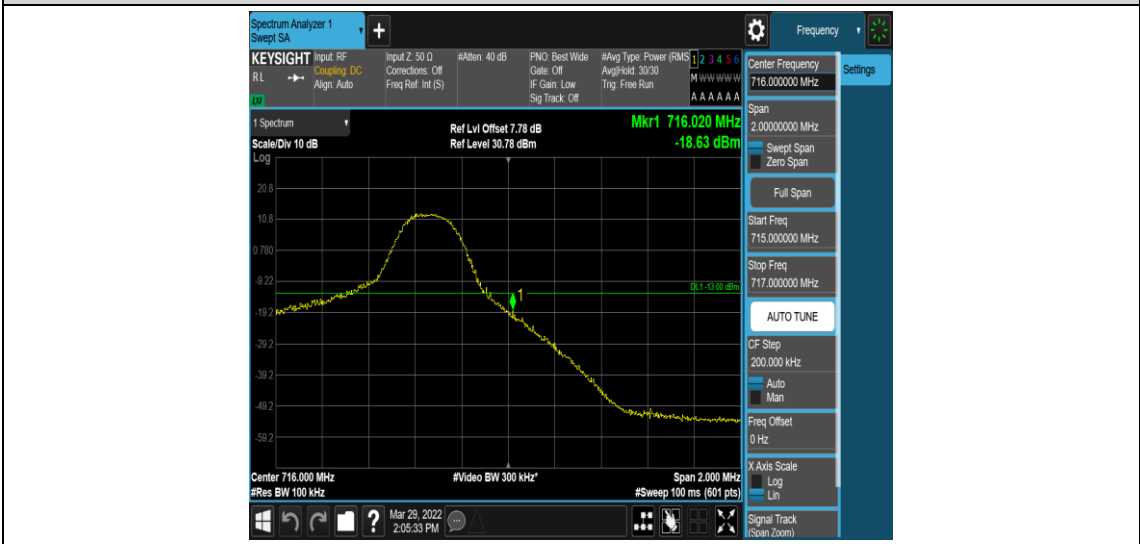
Band17-5MHz-16QAM-23755-1RB#24



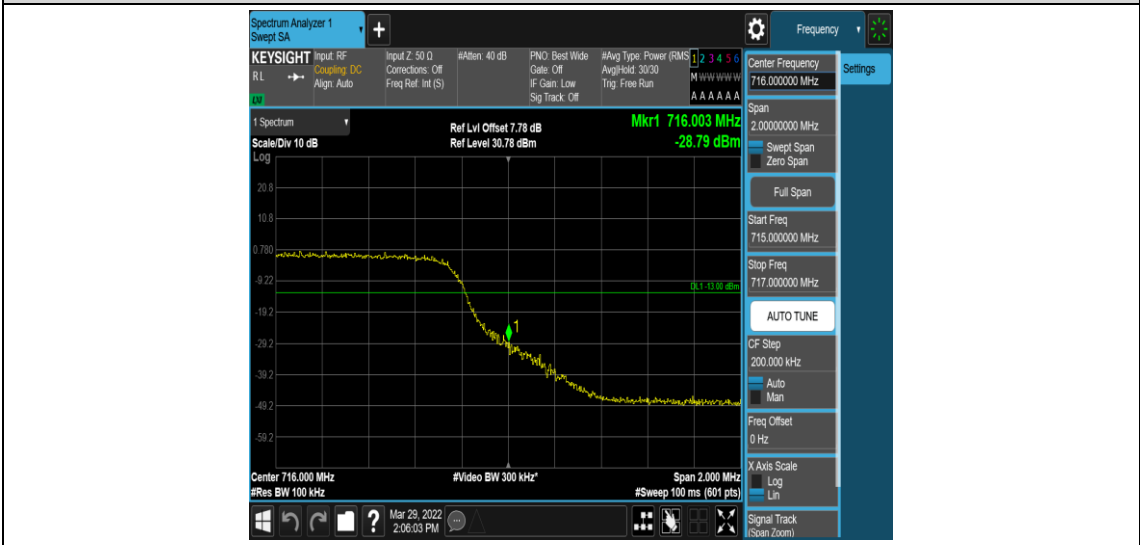
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Band17-5MHz-16QAM-23825-1RB#0

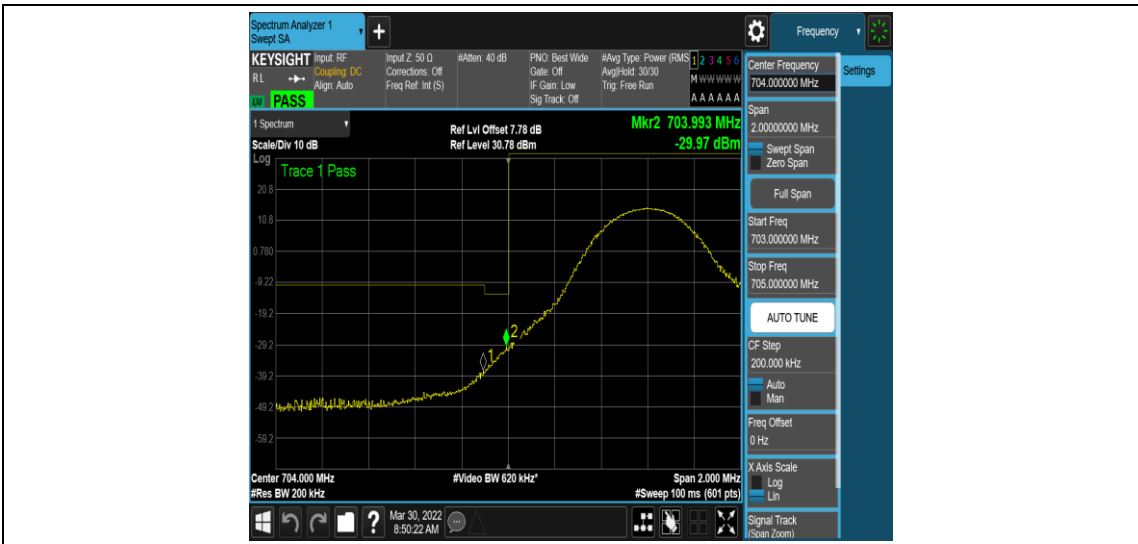


Band17-5MHz-16QAM-23825-1RB#24

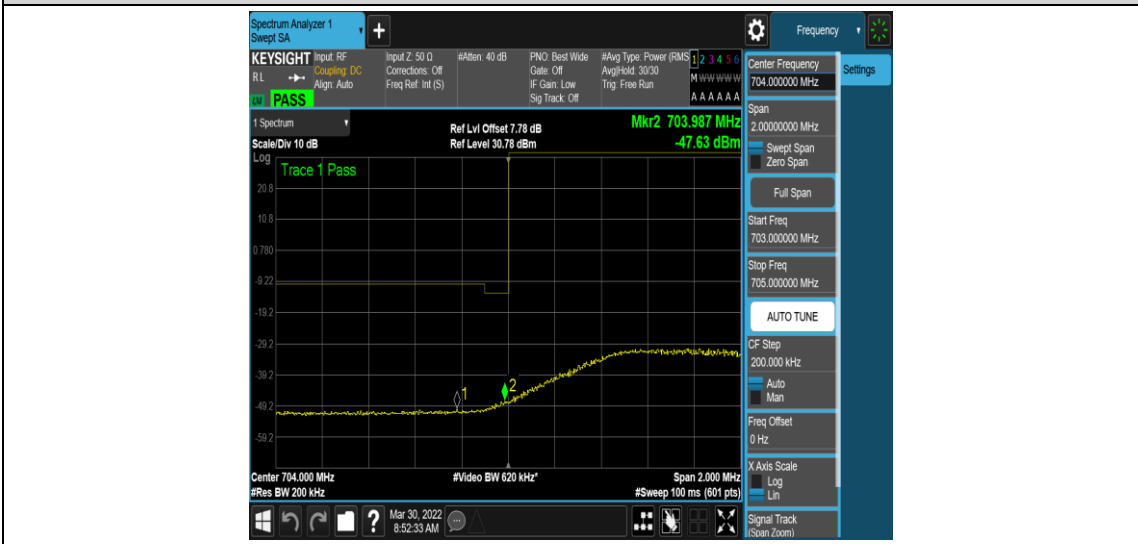


Band17-5MHz-16QAM-23825-25RB#0

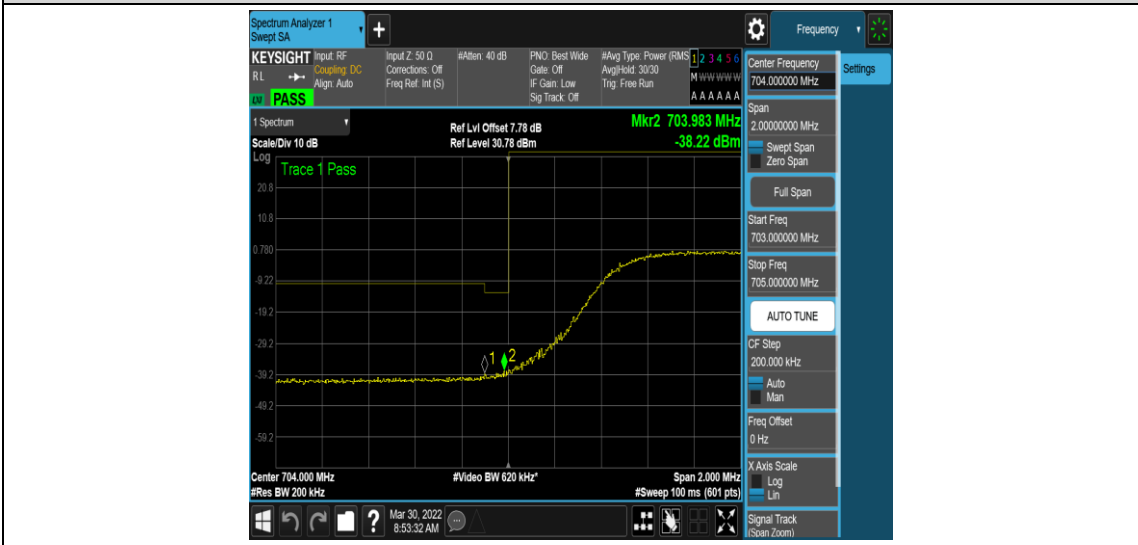




Band17-10MHz-QPSK-23780-1RB#0



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



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



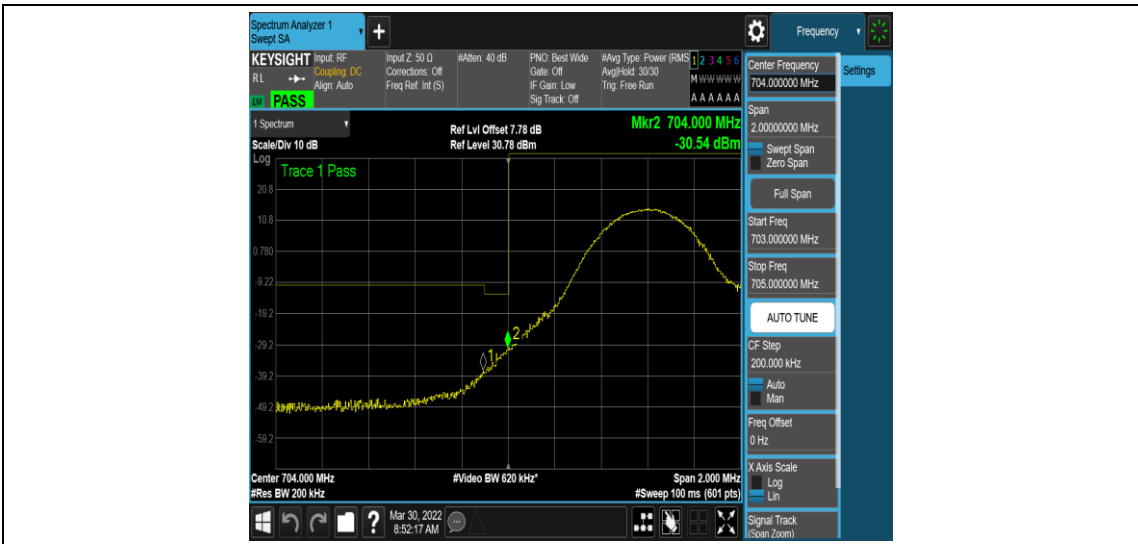
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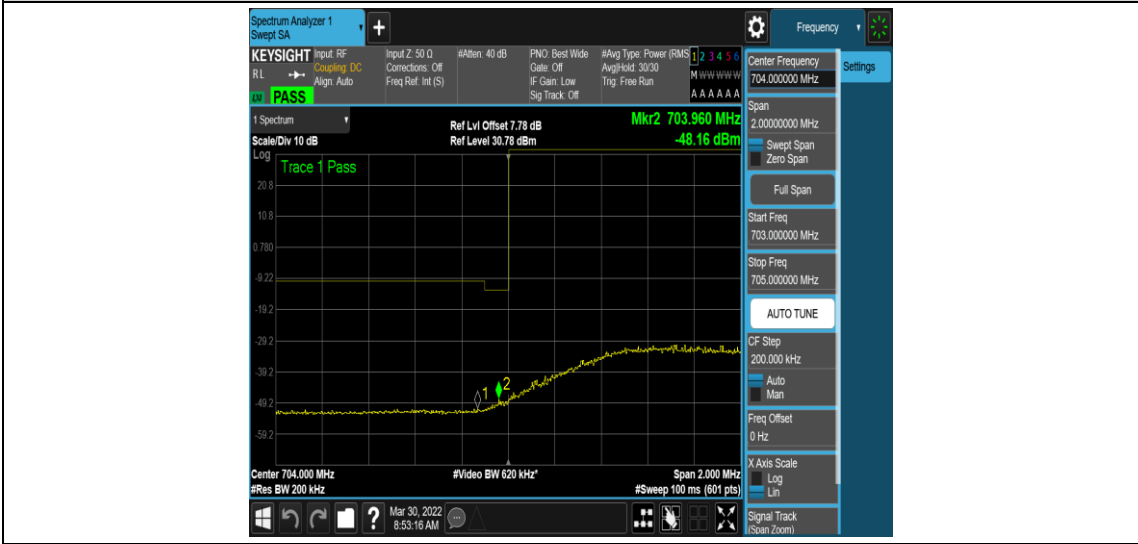
Band17-10MHz-QPSK-23800-1RB#49



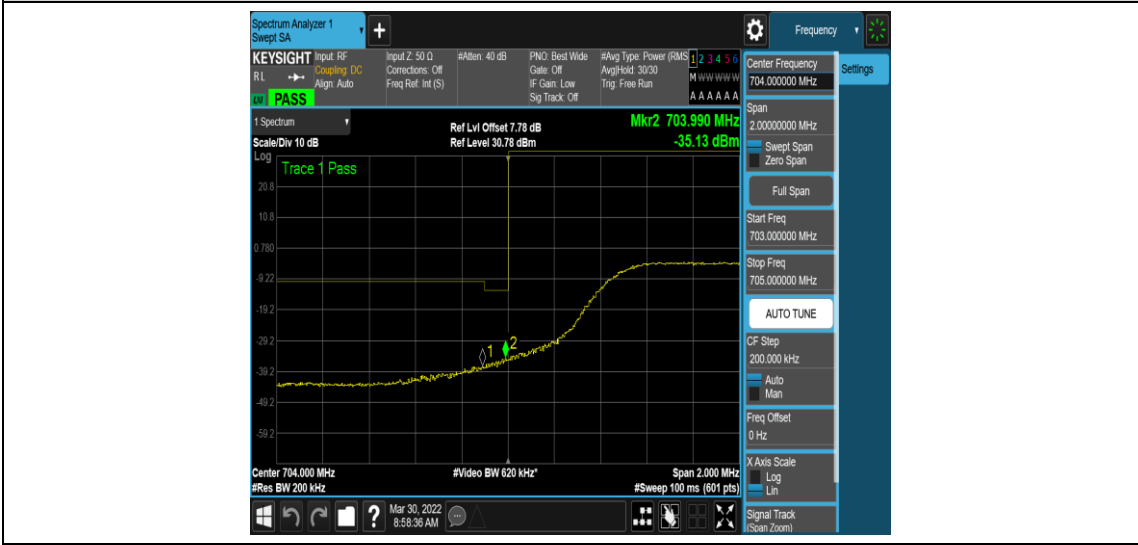
Band17-10MHz-QPSK-23800-50RB#0



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



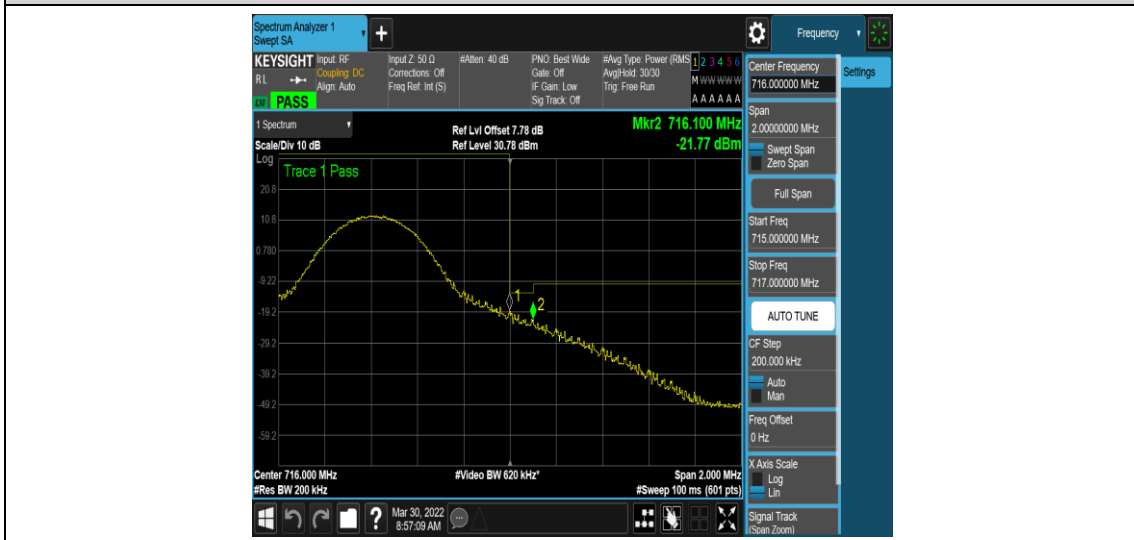
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Band17-10MHz-16QAM-23780-50RB#0



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



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



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