

5.2.5. Transmitter Conducted Emissions Limitations**Test Summary:**

Test Engineer:	Patrick Jones	Test Dates:	07 April 2017 & 10 April 2017
Test Sample Serial Number:	BHMBH01000213		

FCC Reference:	Parts 90.543(e)(1) and 2.1051
Test Method Used:	KDB 971168 D01 Section 6.0 referencing FCC Part 90.543
Frequency Ranges:	769 MHz to 775 MHz 799 MHz to 805 MHz

Environmental Conditions:

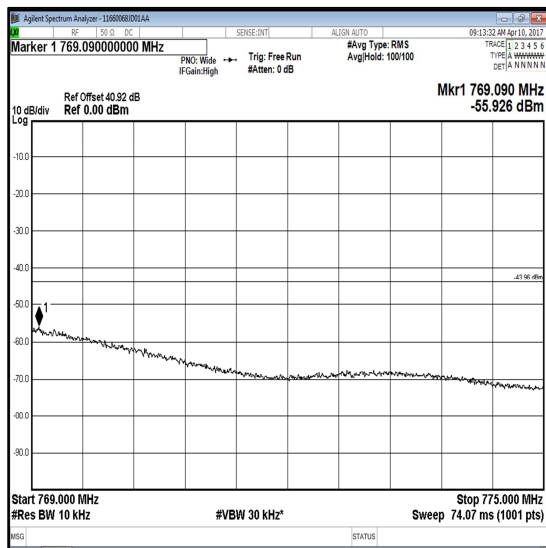
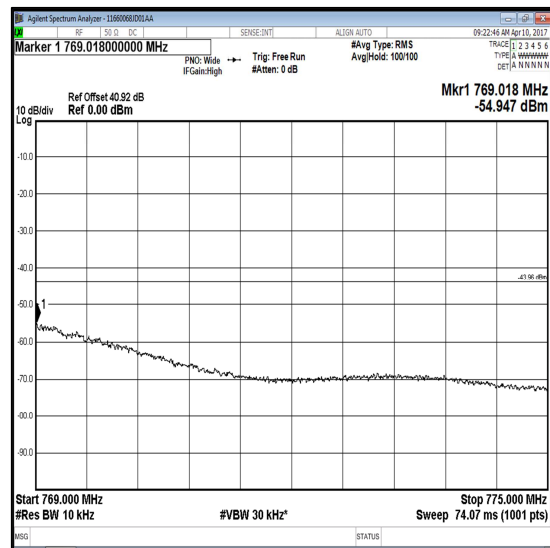
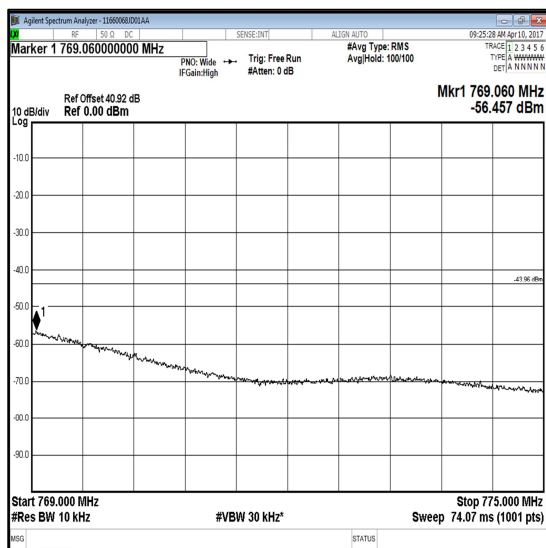
Temperature (°C):	24 to 25
Relative Humidity (%):	31 to 35

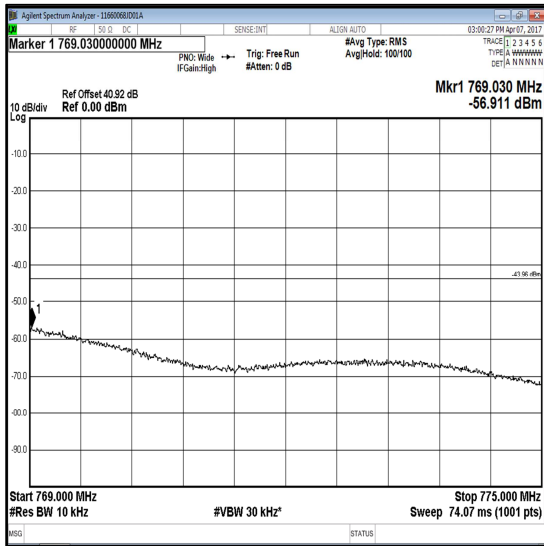
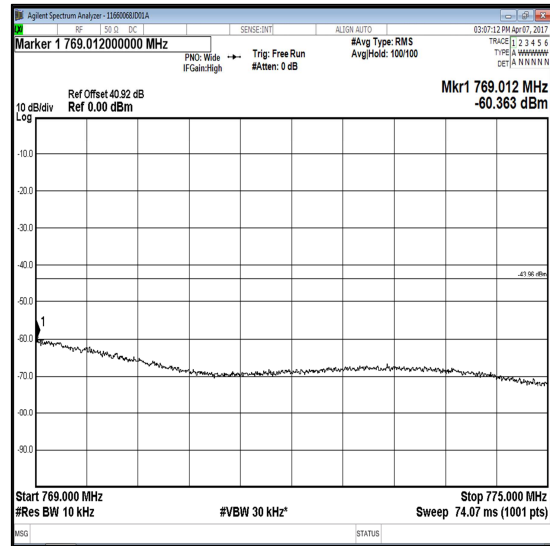
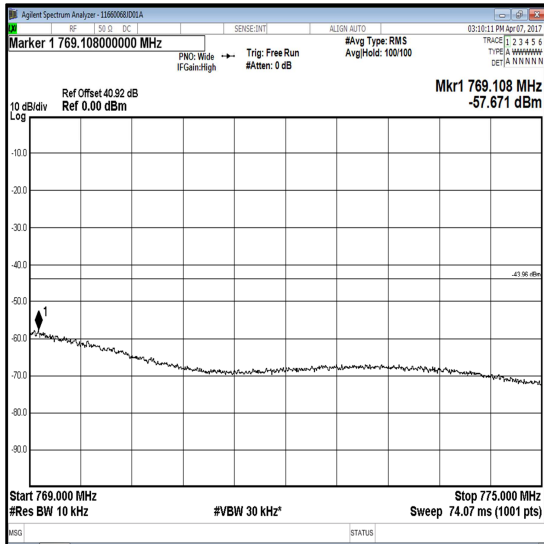
Note(s):

1. Measurements were performed with the EUT transmitting with a 5 MHz and 10 MHz channel bandwidth, using QPSK, 16QAM and 64QAM modulation schemes.
2. All emissions were >20 dB below the applicable limit or below the level of the noise floor of the measuring receiver.
3. The emissions limit for 90.543(e)(1) is $76 + 10\log_{10}(P) = -46.0$ dBm in a 6.25 kHz bandwidth. As it was not possible to set the resolution bandwidth on the test equipment, the bandwidth was set to 10 kHz. The limit was adjusted by $10\log_{10}(10\text{ kHz} / 6.25\text{ kHz}) = 2.04$ dB. The limit shown in the plots for the 769 MHz to 775 MHz and 799 MHz to 805 MHz bands was set to $-46\text{ dBm} + 2.04\text{ dB} = -43.96\text{ dBm}$.
4. The measurements were performed using an RMS detector, with a video averaging trace over 100 sweeps.

Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Bottom Channel / 769 MHz to 775 MHz**

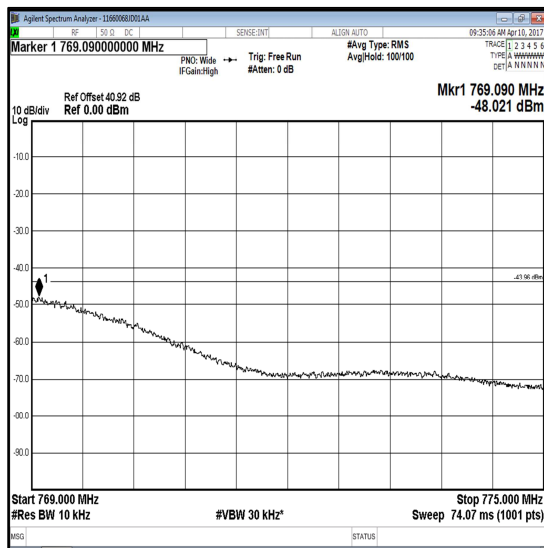
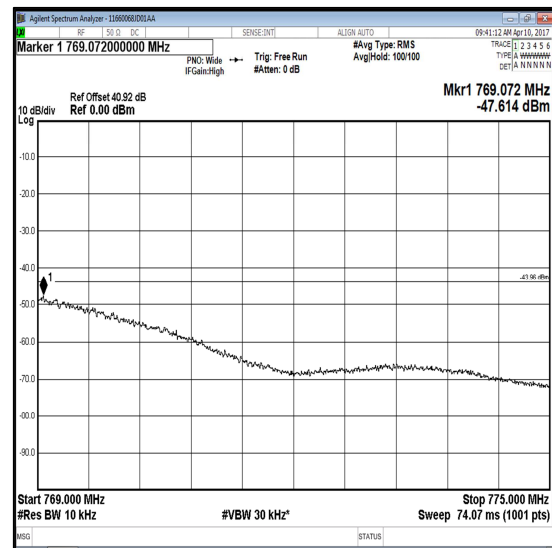
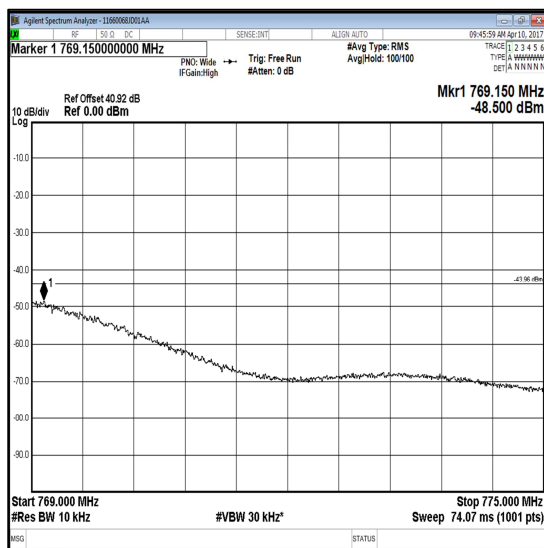
Modulation	Peak Emission Level RXTX1 (dBm)	Peak Emission Level RXTX2 (dBm)	Combined Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
QPSK	-55.93	-56.91	-53.01	-43.96	9.05	Complied
16QAM	-54.95	-60.36	-54.07	-43.96	10.11	Complied
64QAM	-56.46	-57.67	-53.98	-43.96	10.02	Complied

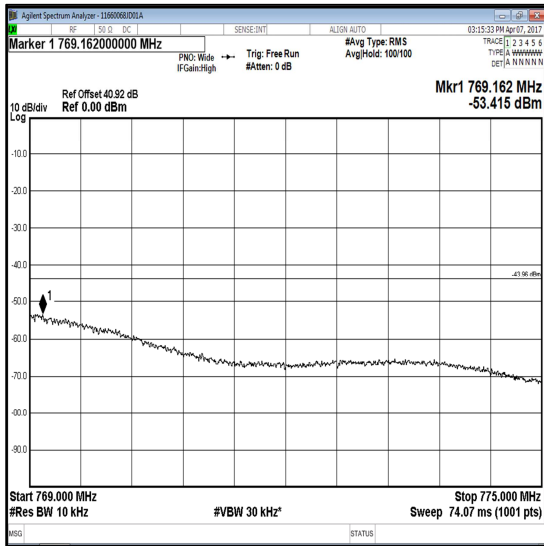
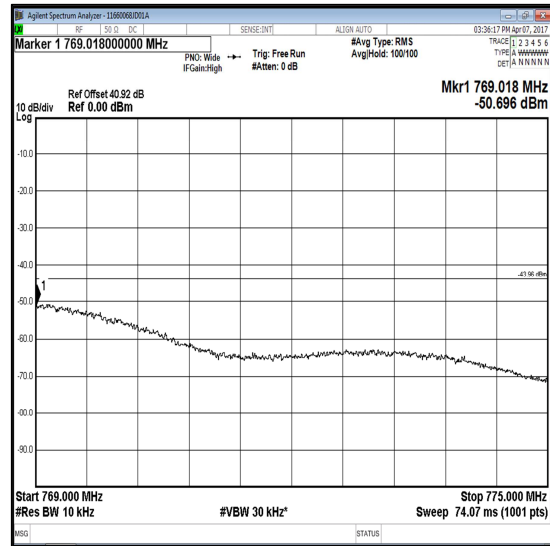
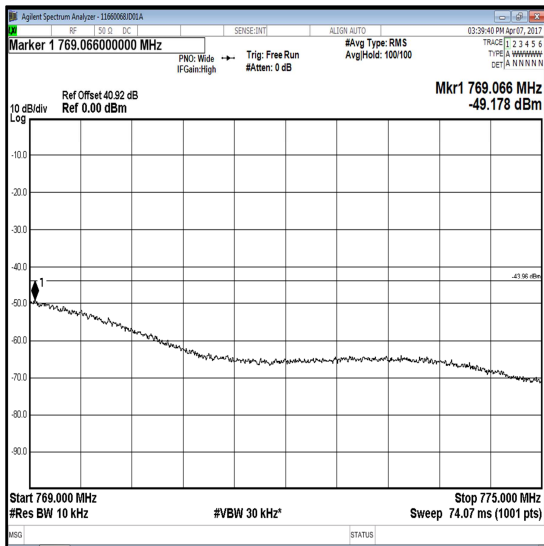
Results: 5 MHz Channel Bandwidth / Bottom Channel / 769 MHz to 775 MHz / RxTx1**QPSK****16QAM****64QAM**

Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Bottom Channel / 769 MHz to 775 MHz / RxTx2****QPSK****16QAM****64QAM**

Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Top Channel / 769 MHz to 775 MHz**

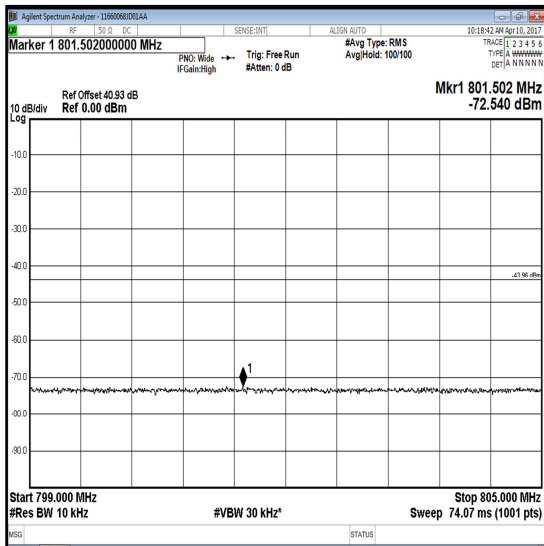
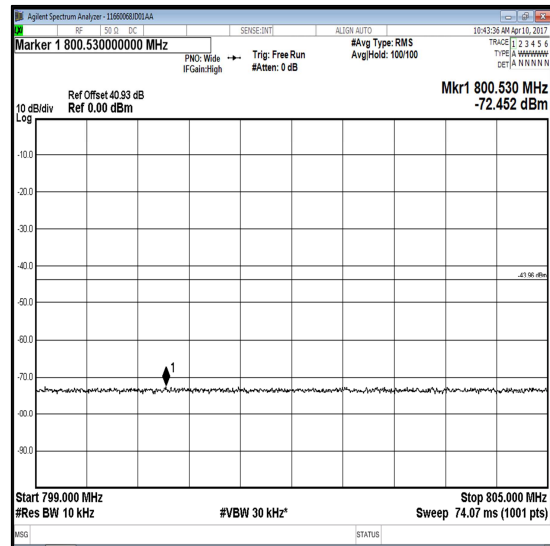
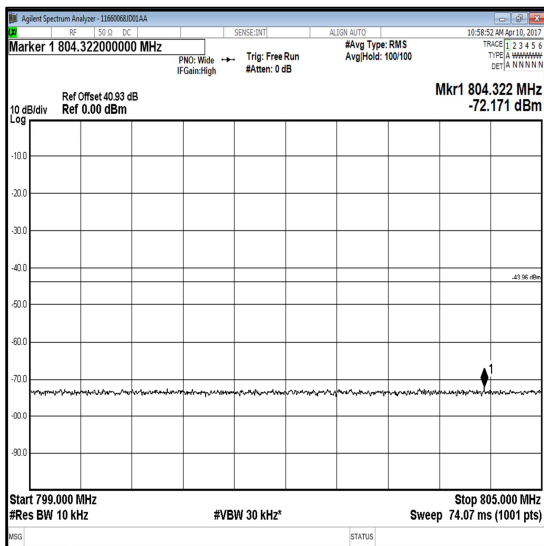
Modulation	Peak Emission Level RXTX1 (dBm)	Peak Emission Level RXTX2 (dBm)	Combined Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
QPSK	-48.02	-53.42	-46.90	-43.96	2.94	Complied
16QAM	-47.61	-50.70	-45.88	-43.96	1.92	Complied
64QAM	-48.50	-49.18	-45.82	-43.96	1.86	Complied

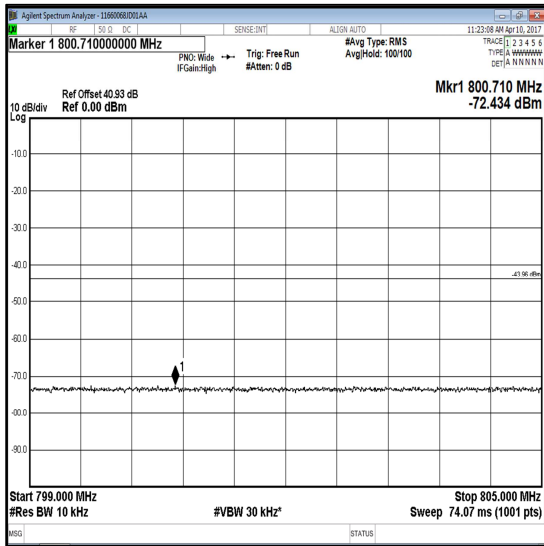
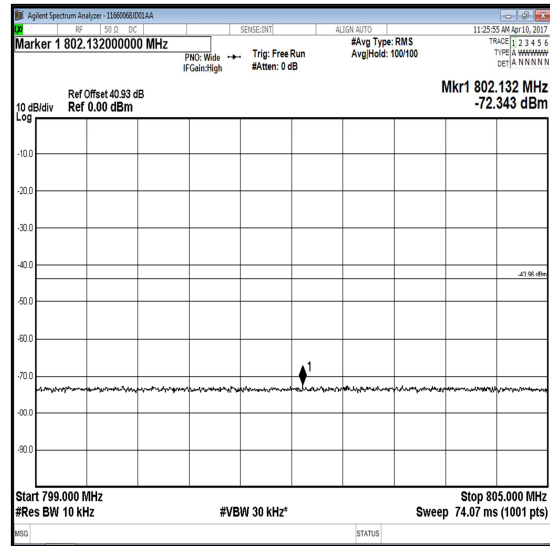
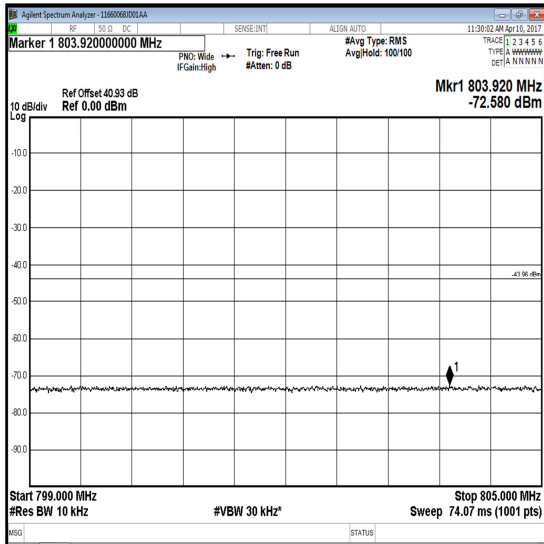
Results: 5 MHz Channel Bandwidth / Top Channel / 769 MHz to 775 MHz / RxTx1**QPSK****16QAM****64QAM**

Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Top Channel / 769 MHz to 775 MHz / RxTx2****QPSK****16QAM****64QAM**

Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Bottom Channel / 799 MHz to 805 MHz**

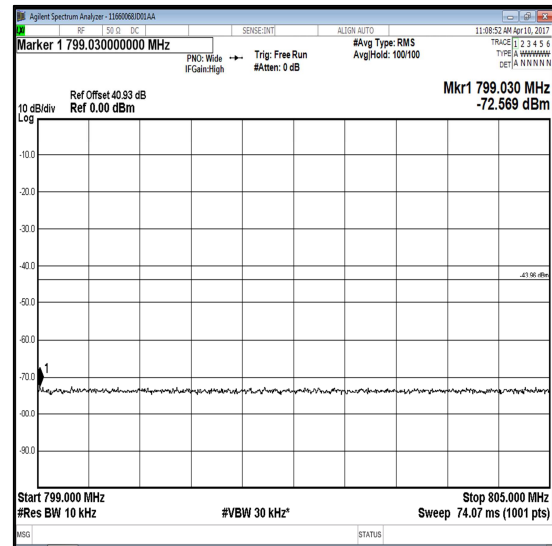
Modulation	Peak Emission Level RXTX1 (dBm)	Peak Emission Level RXTX2 (dBm)	Combined Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
QPSK	-72.54	-72.43	-69.48	-43.96	25.52	Complied
16QAM	-72.45	-72.34	-69.39	-43.96	25.43	Complied
64QAM	-72.17	-72.58	-69.36	-43.96	25.40	Complied

Results: 5 MHz Channel Bandwidth / Bottom Channel / 799 MHz to 805 MHz / RxTx1**QPSK****16QAM****64QAM**

Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Bottom Channel / 799 MHz to 805 MHz / RxTx2****QPSK****16QAM****64QAM**

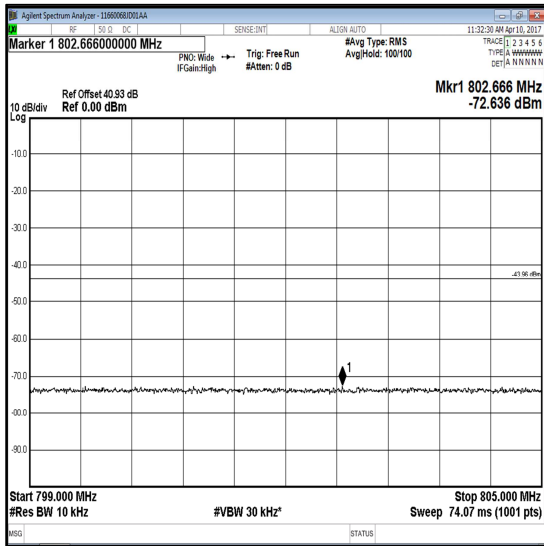
Transmitter Conducted Emissions Limitations (continued)**Results: 5 MHz Channel Bandwidth / Top Channel / 799 MHz to 805 MHz**

Modulation	Peak Emission Level RXTX1 (dBm)	Peak Emission Level RXTX2 (dBm)	Combined Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
QPSK	-72.78	-72.64	-69.70	-43.96	25.74	Complied
16QAM	-72.57	-72.65	-69.60	-43.96	25.64	Complied
64QAM	-72.29	-72.70	-69.48	-43.96	25.52	Complied

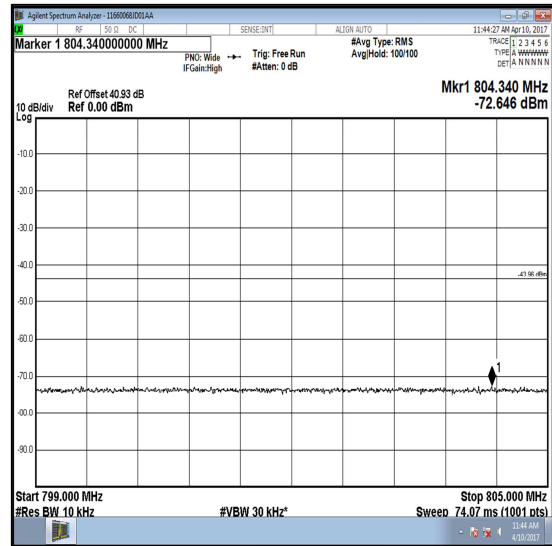
Results: 5 MHz Channel Bandwidth / Top Channel / 799 MHz to 805 MHz / RxTx1**QPSK****16QAM****64QAM**

Transmitter Conducted Emissions Limitations (continued)

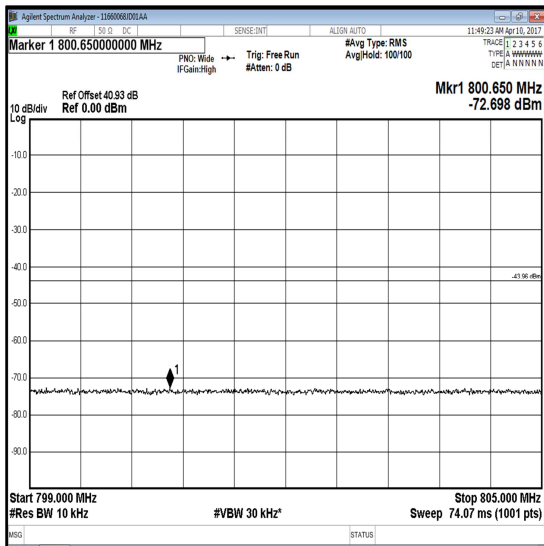
Results: 5 MHz Channel Bandwidth / Top Channel / 799 MHz to 805 MHz / RxTx2



QPSK



16QAM



64QAM