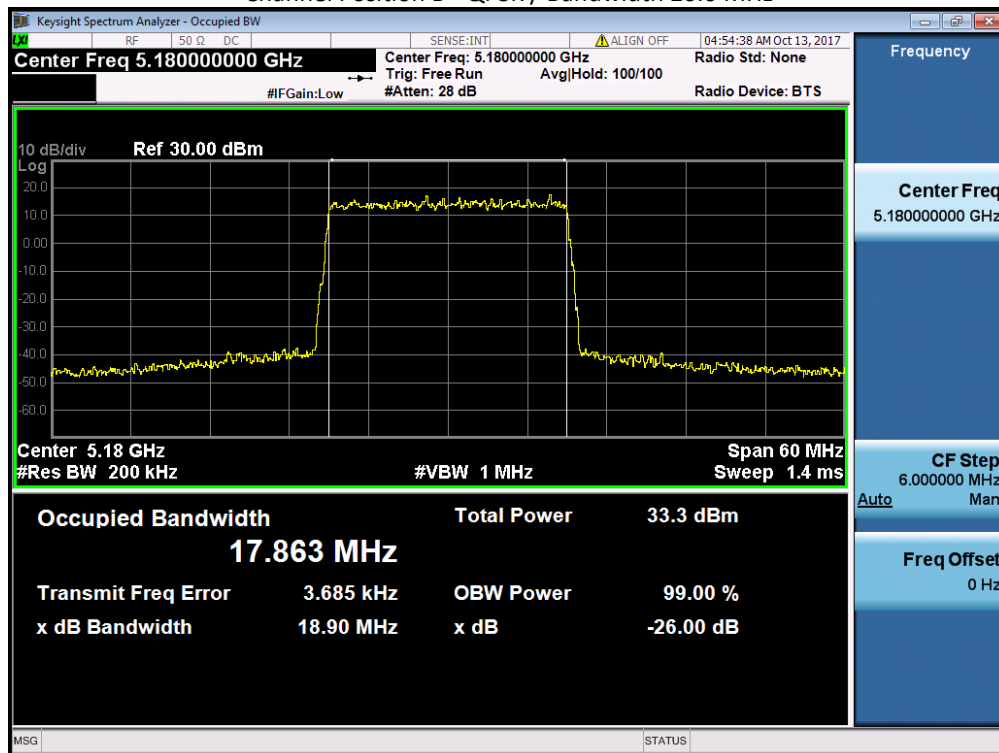
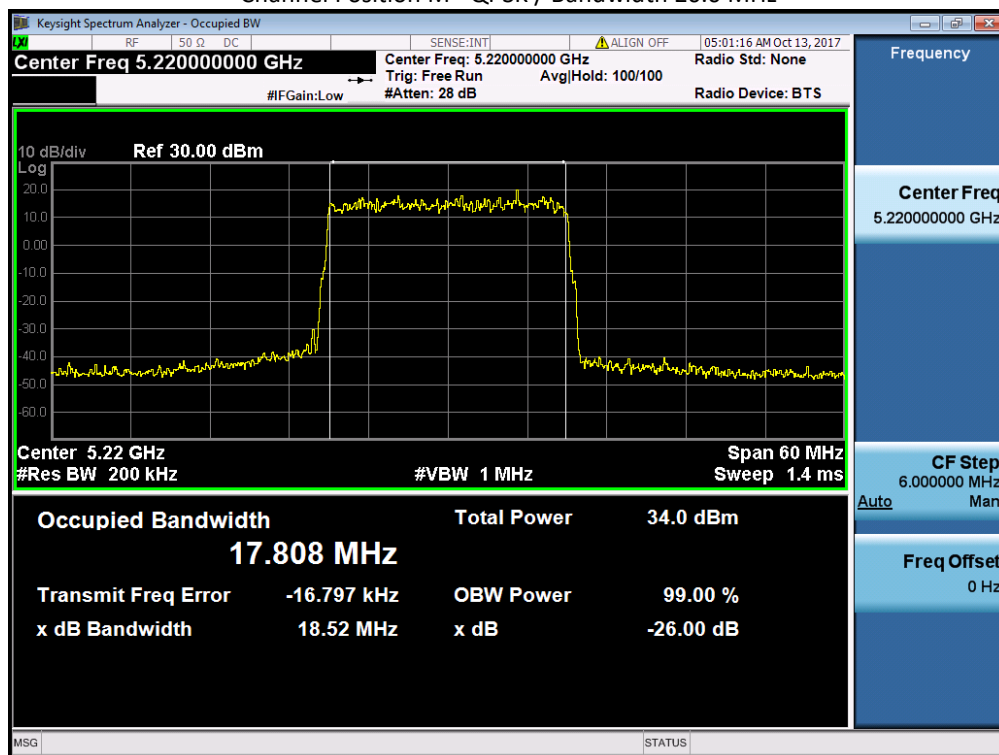


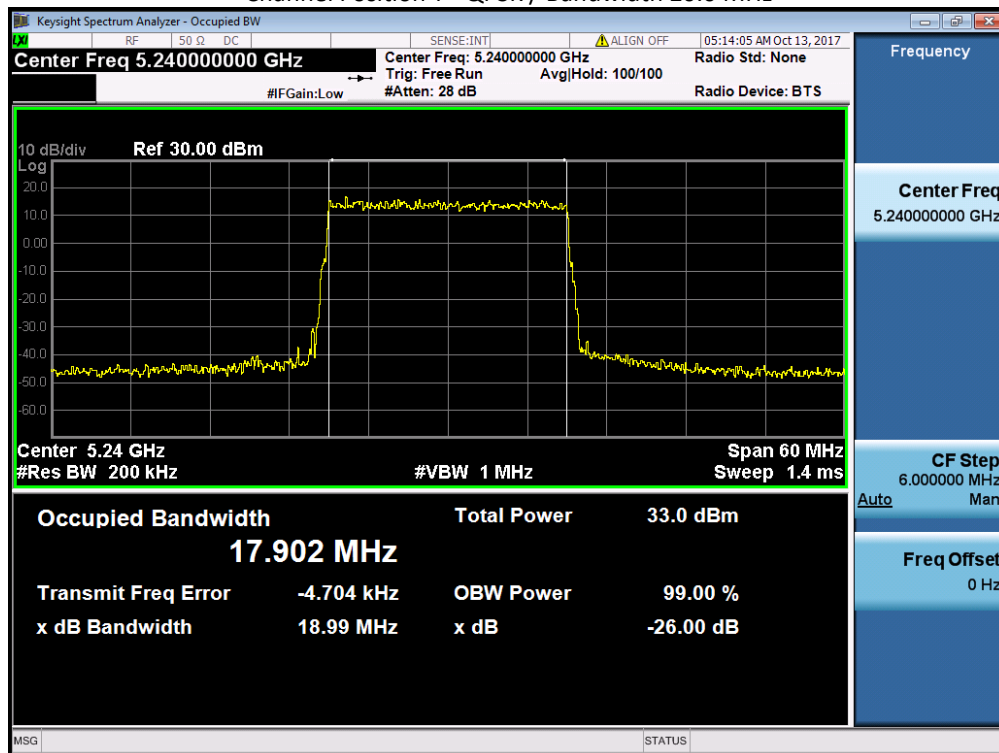
Channel Position B - QPSK / Bandwidth 20.0 MHz



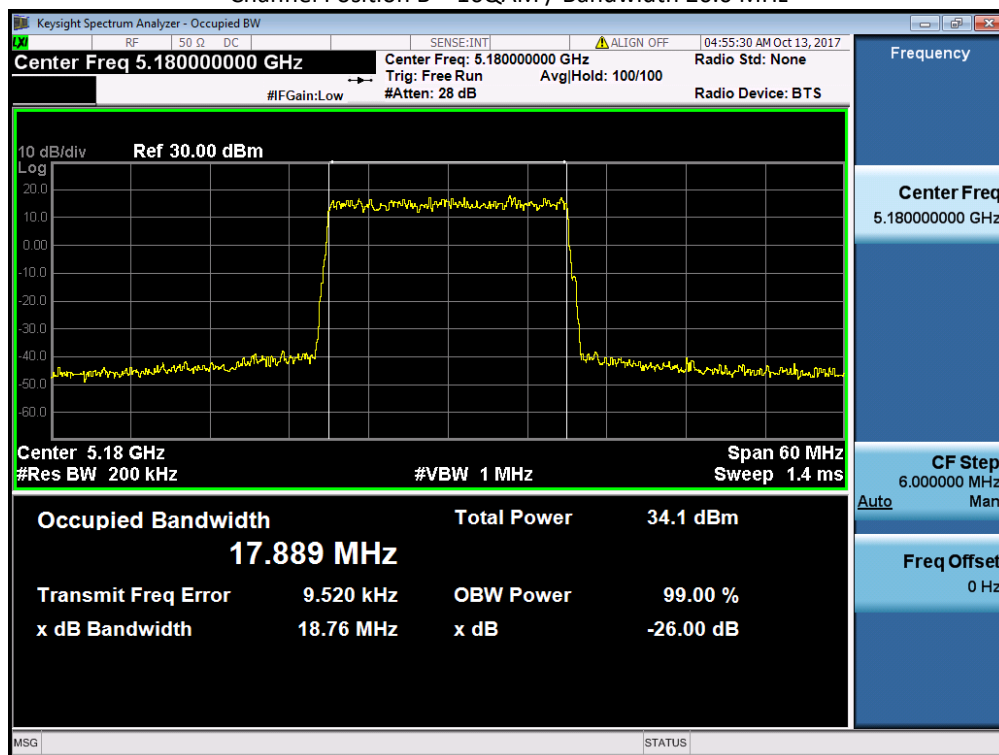
Channel Position M - QPSK / Bandwidth 20.0 MHz



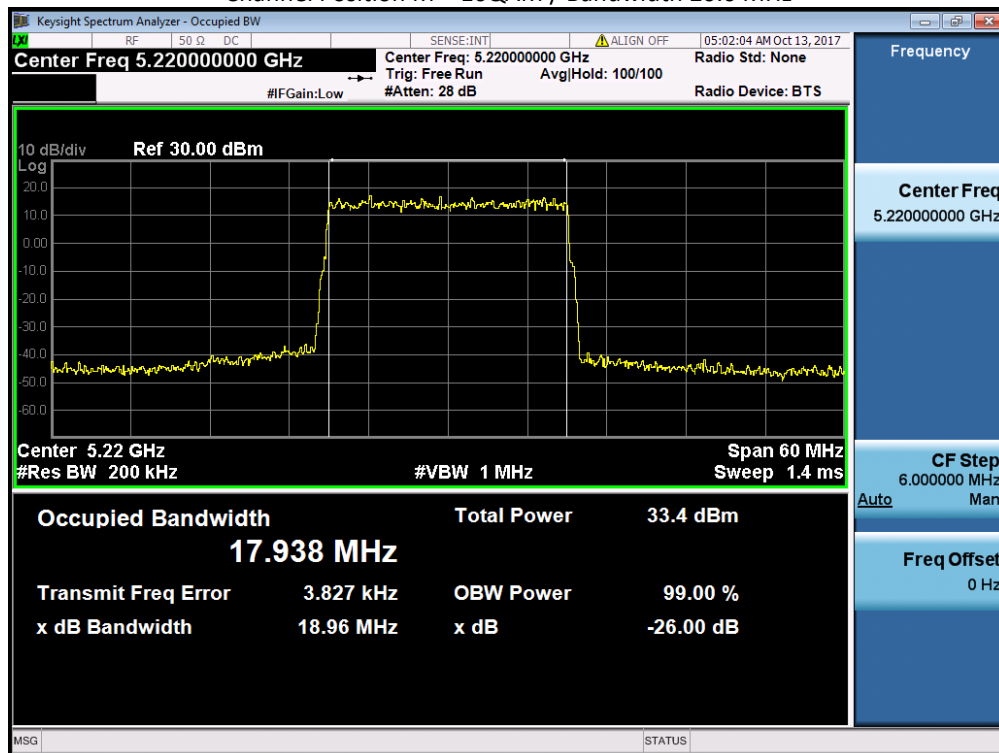
Channel Position T - QPSK / Bandwidth 20.0 MHz



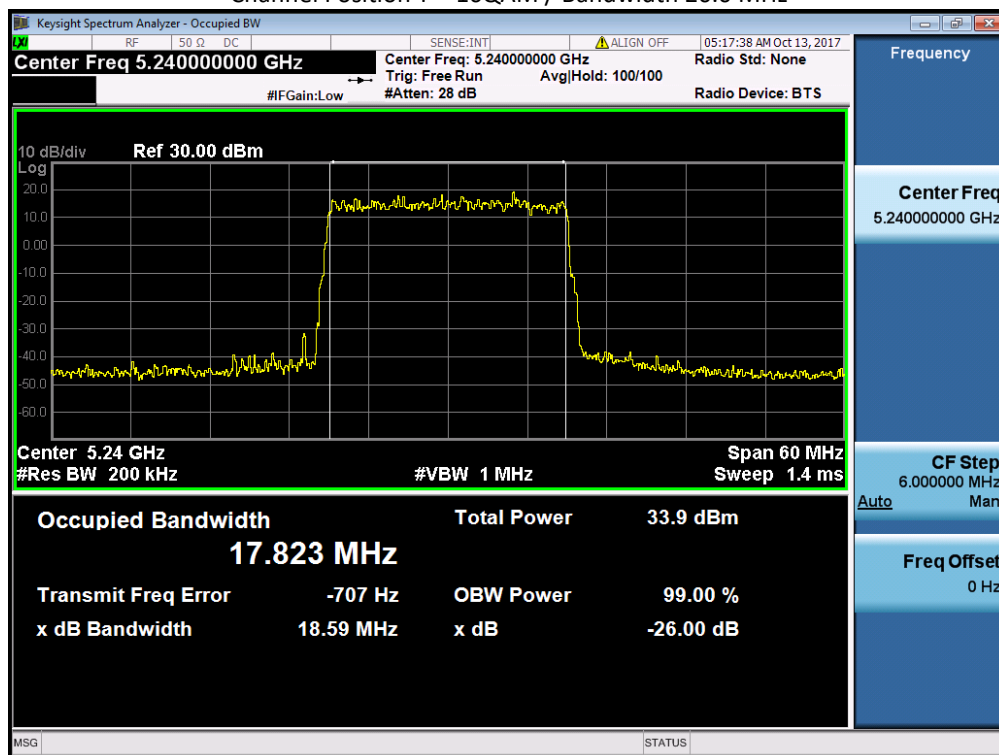
Channel Position B - 16QAM / Bandwidth 20.0 MHz



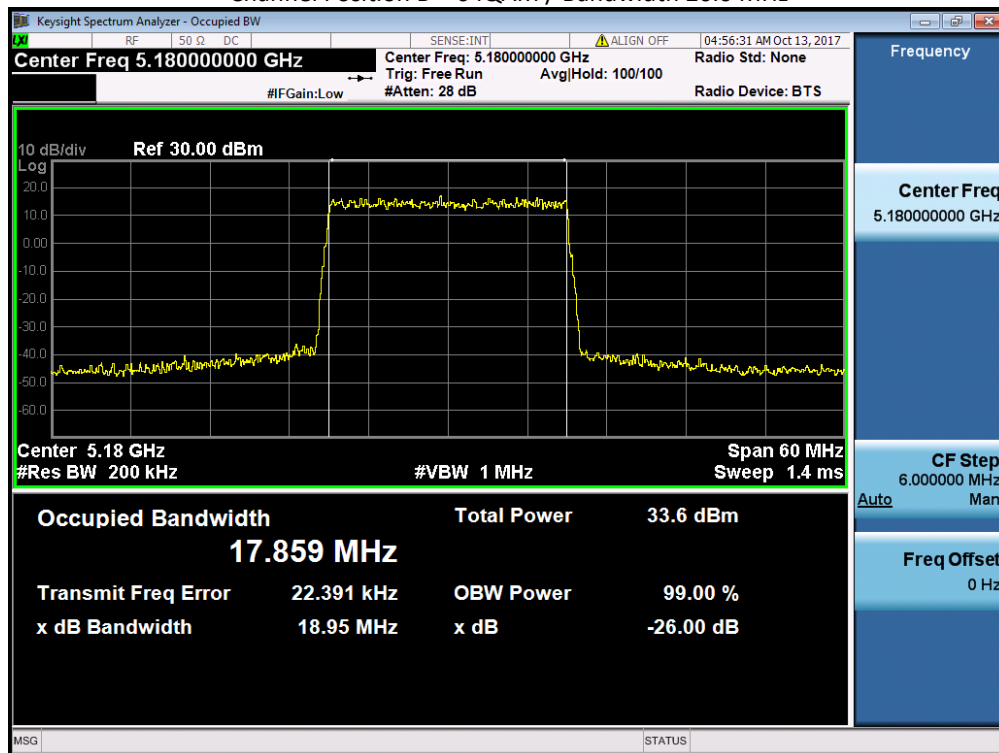
Channel Position M – 16QAM / Bandwidth 20.0 MHz



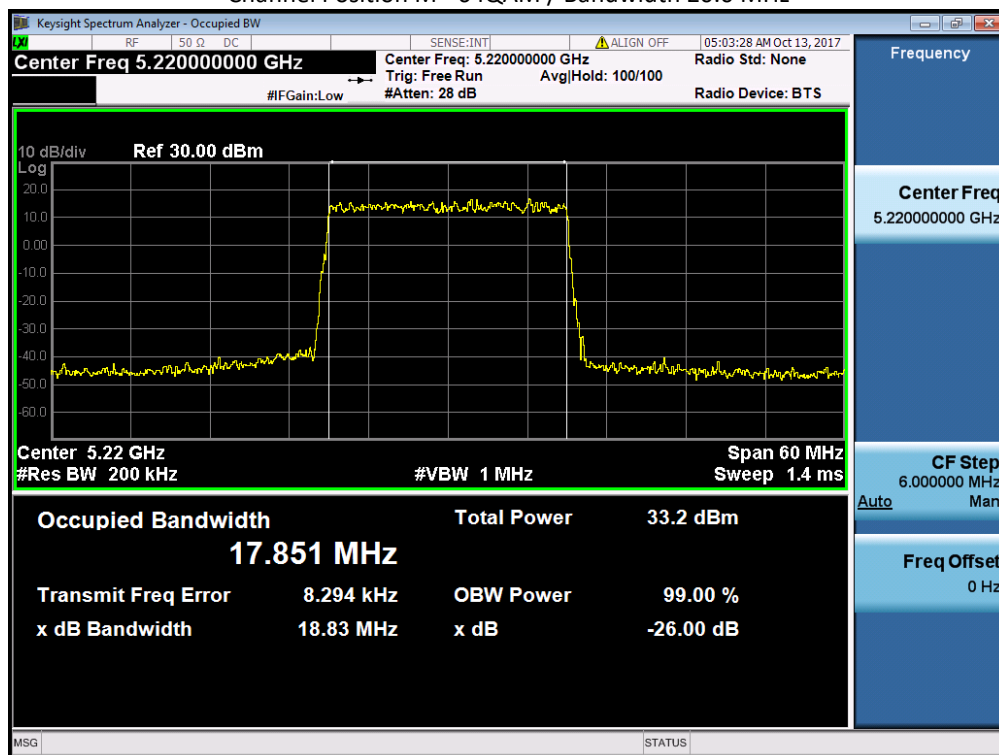
Channel Position T – 16QAM / Bandwidth 20.0 MHz



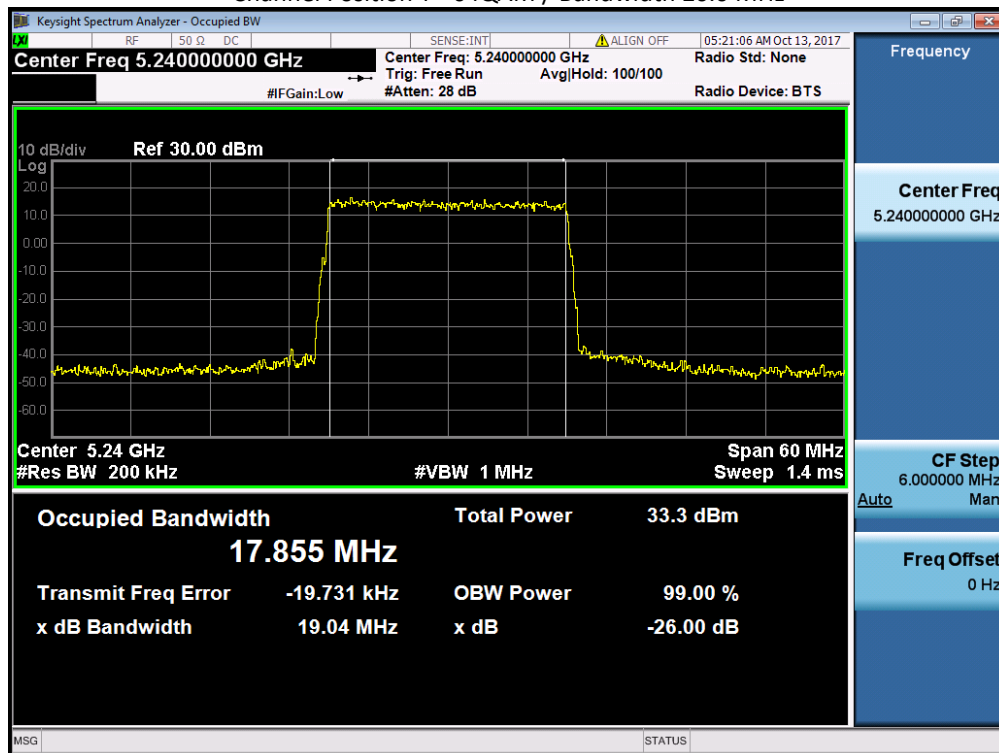
Channel Position B – 64QAM / Bandwidth 20.0 MHz



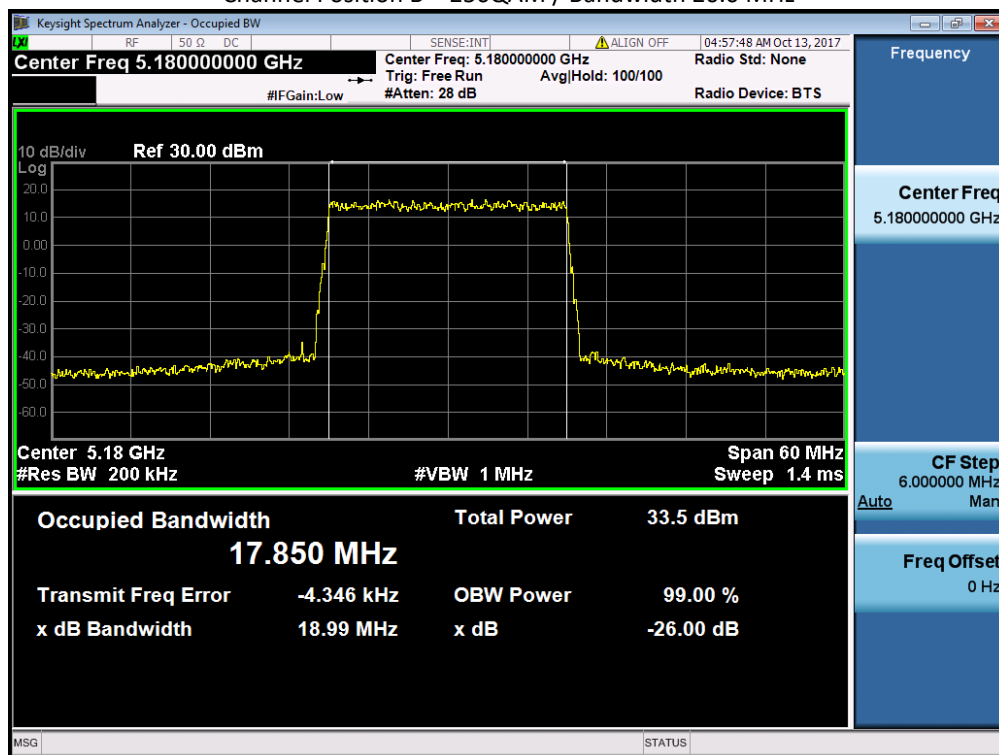
Channel Position M - 64QAM / Bandwidth 20.0 MHz



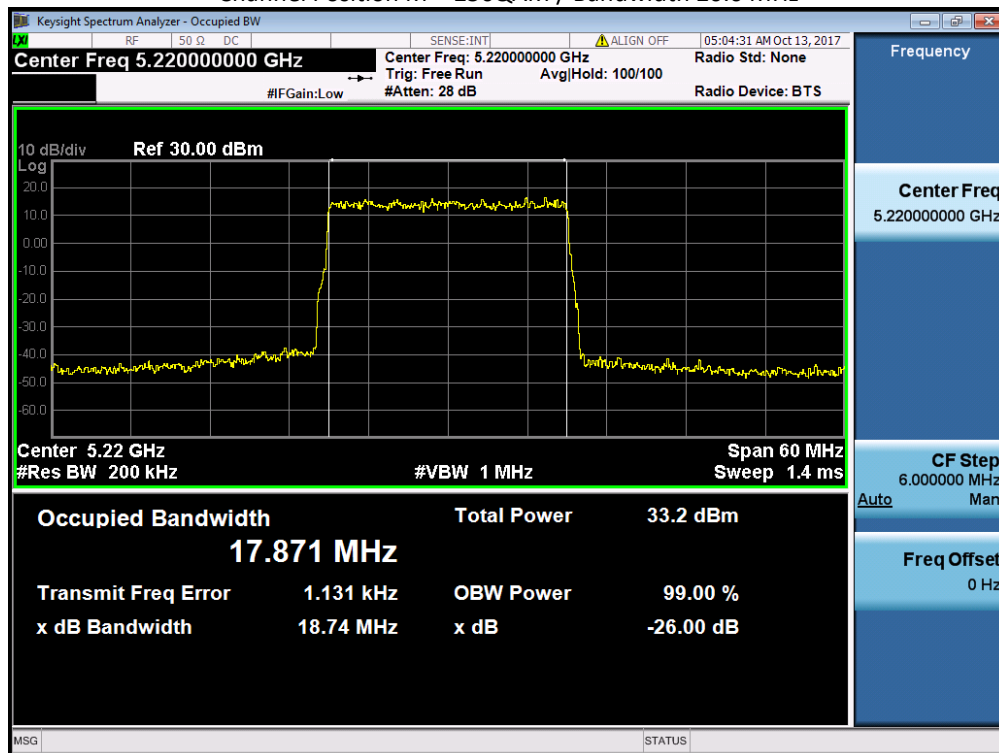
Channel Position T - 64QAM / Bandwidth 20.0 MHz



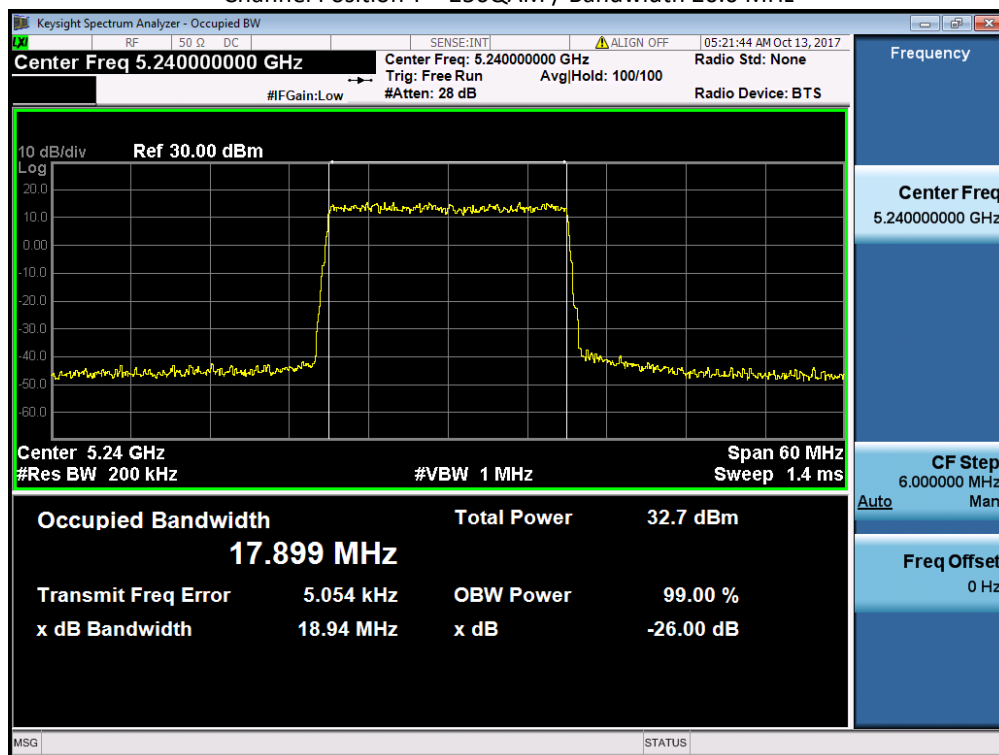
Channel Position B - 256QAM / Bandwidth 20.0 MHz



Channel Position M – 256QAM / Bandwidth 20.0 MHz



Channel Position T – 256QAM / Bandwidth 20.0 MHz



Configuration B2

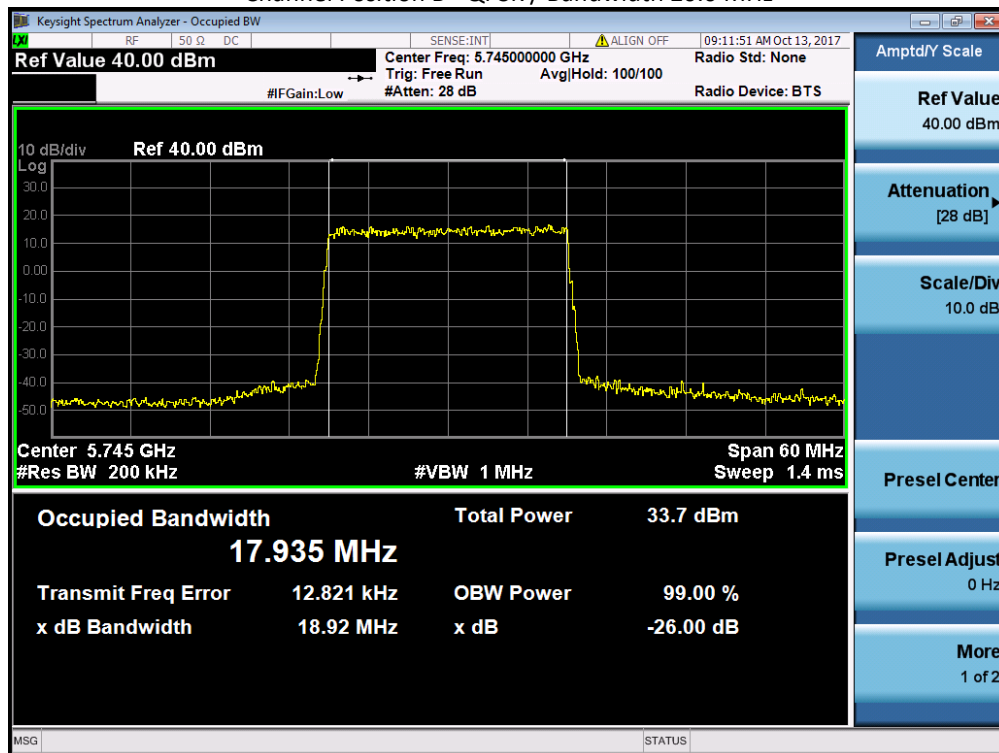
L-MIMO-SC

Maximum Output Power 25dBm per port:

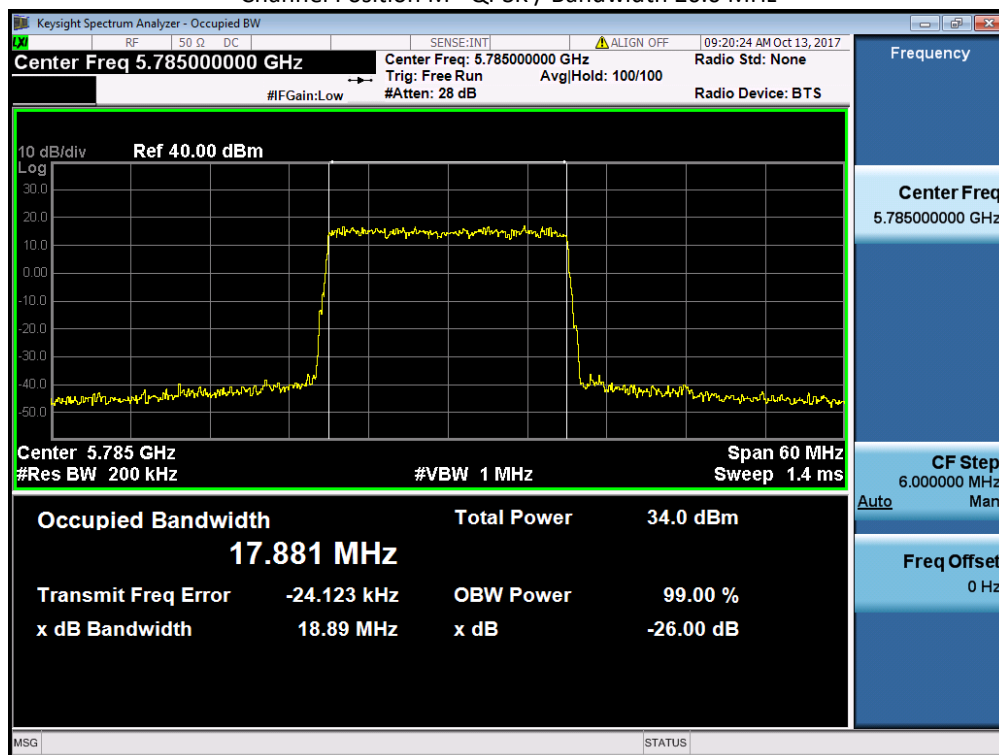
Modulation / Bandwidth	Occupied Bandwidth (MHz)					
	Channel Position B 5745MHz		Channel Position M 5785MHz		Channel Position T 5825MHz	
	-26dB Bandwidth	99% Bandwidth	-26dB Bandwidth	99% Bandwidth	--26dB Bandwidth	99% Bandwidth
QPSK / 20.0MHz	18.920	17.935	18.890	17.881	18.980	17.887
16QAM / 20.0MHz	18.900	17.836	18.620	17.833	18.780	17.828
64QAM / 20.0MHz	18.870	17.891	18.880	17.862	18.790	17.864
256QAM / 20.0MHz	18.780	17.840	19.000	17.918	18.780	17.917

Modulation / Bandwidth	Occupied Bandwidth (MHz)		
	Channel Position B 5745MHz	Channel Position M 5785MHz	Channel Position T 5825MHz
	-6dB Bandwidth	-6dB Bandwidth	-6dB Bandwidth
QPSK / 20.0MHz	18.030	18.060	18.070
16QAM / 20.0MHz	18.030	18.000	18.010
64QAM / 20.0MHz	18.030	18.080	18.050
256QAM / 20.0MHz	18.000	18.040	18.030

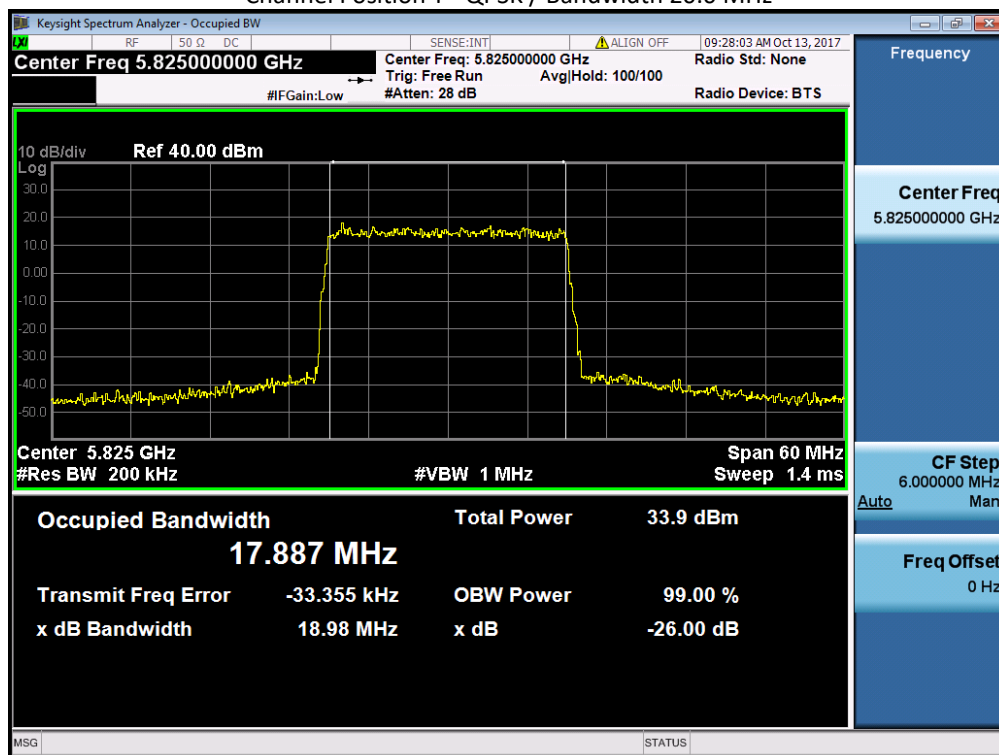
Channel Position B - QPSK / Bandwidth 20.0 MHz



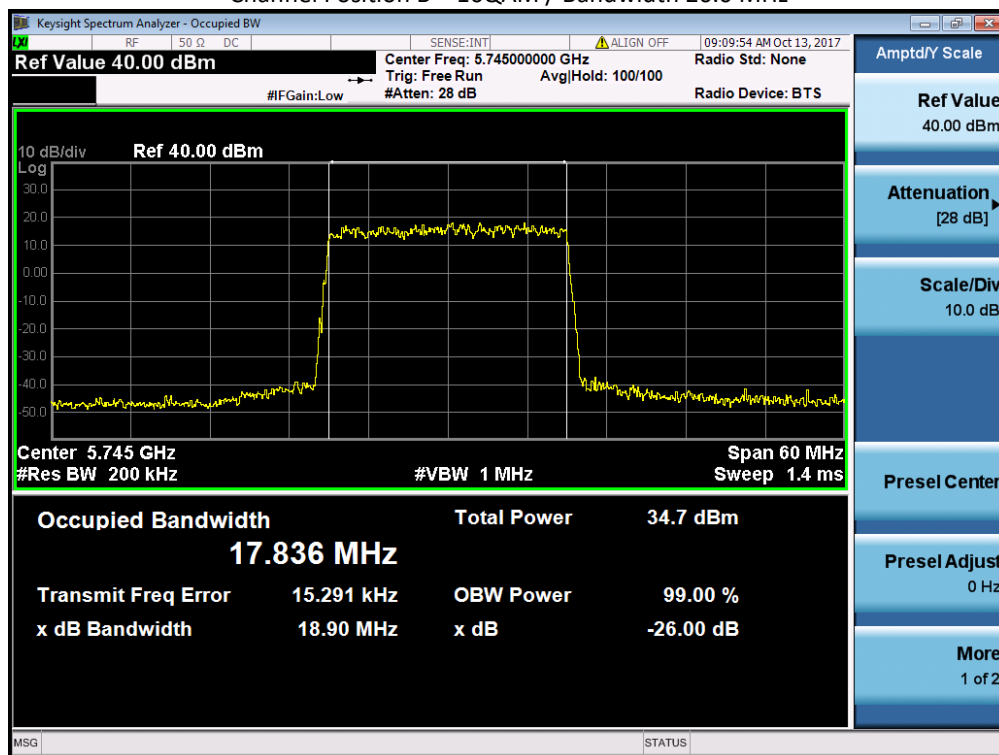
Channel Position M - QPSK / Bandwidth 20.0 MHz



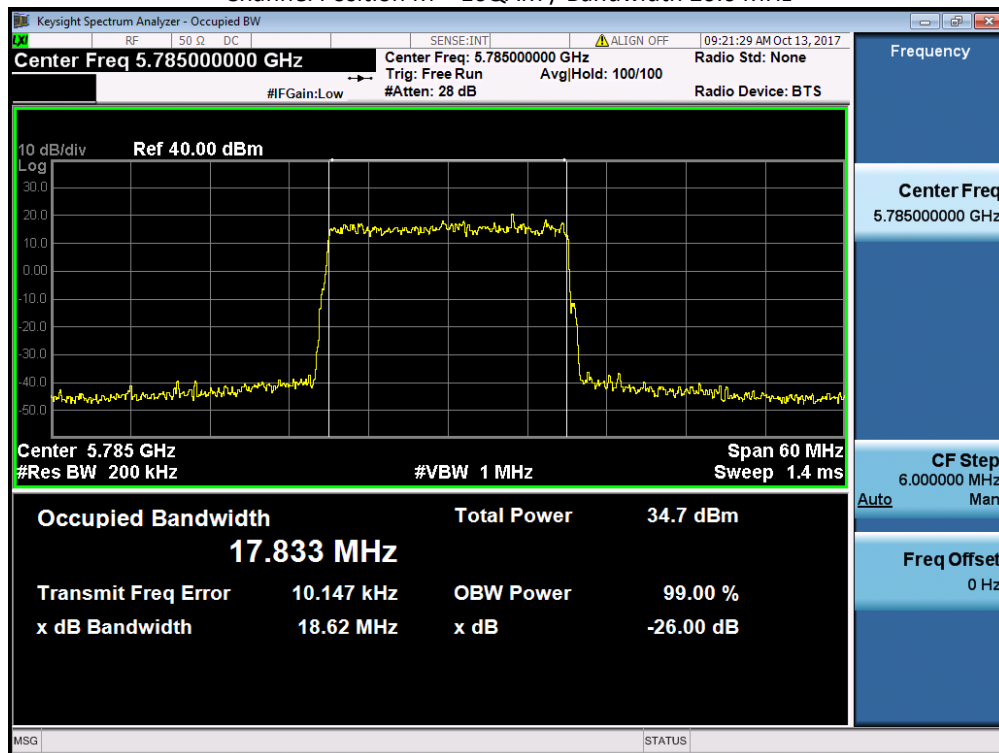
Channel Position T - QPSK / Bandwidth 20.0 MHz



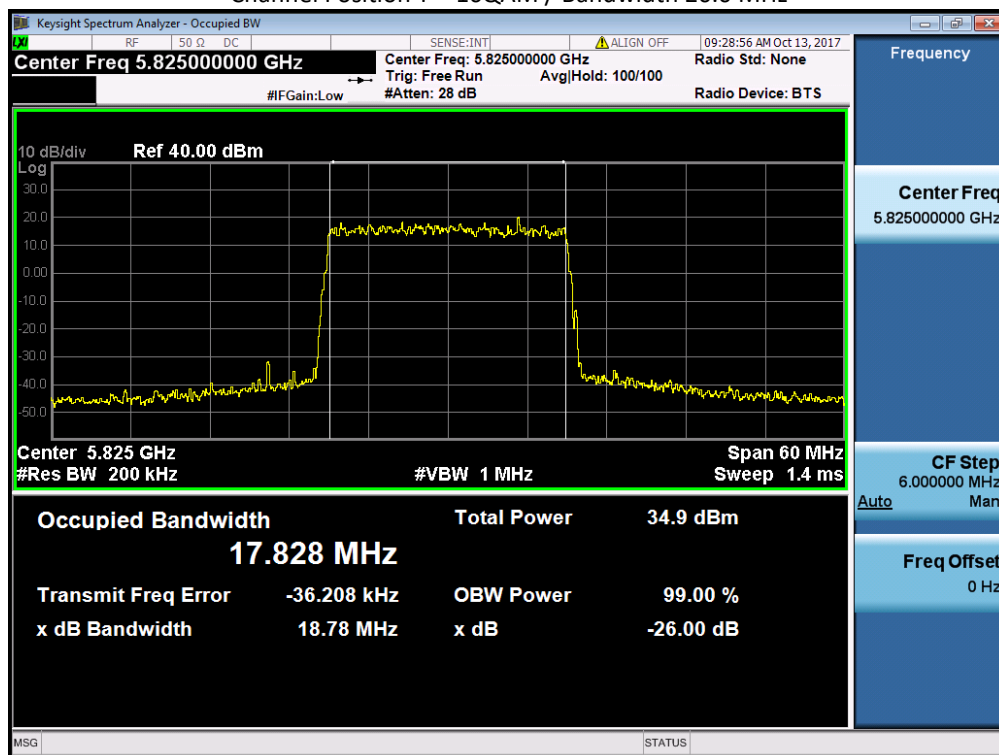
Channel Position B – 16QAM / Bandwidth 20.0 MHz



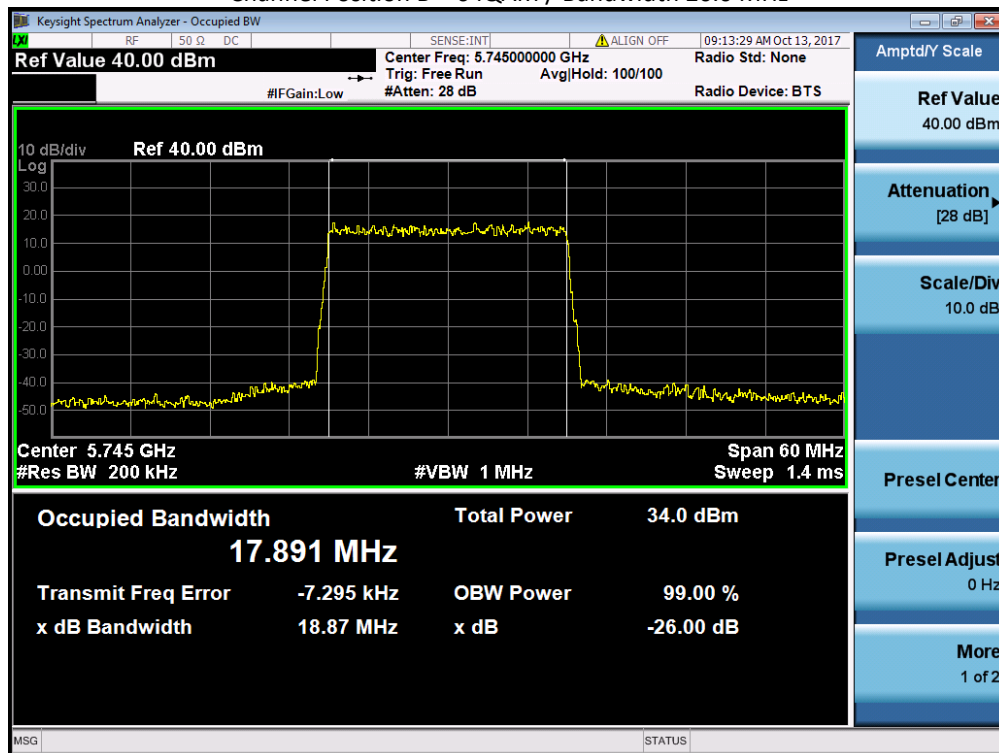
Channel Position M – 16QAM / Bandwidth 20.0 MHz



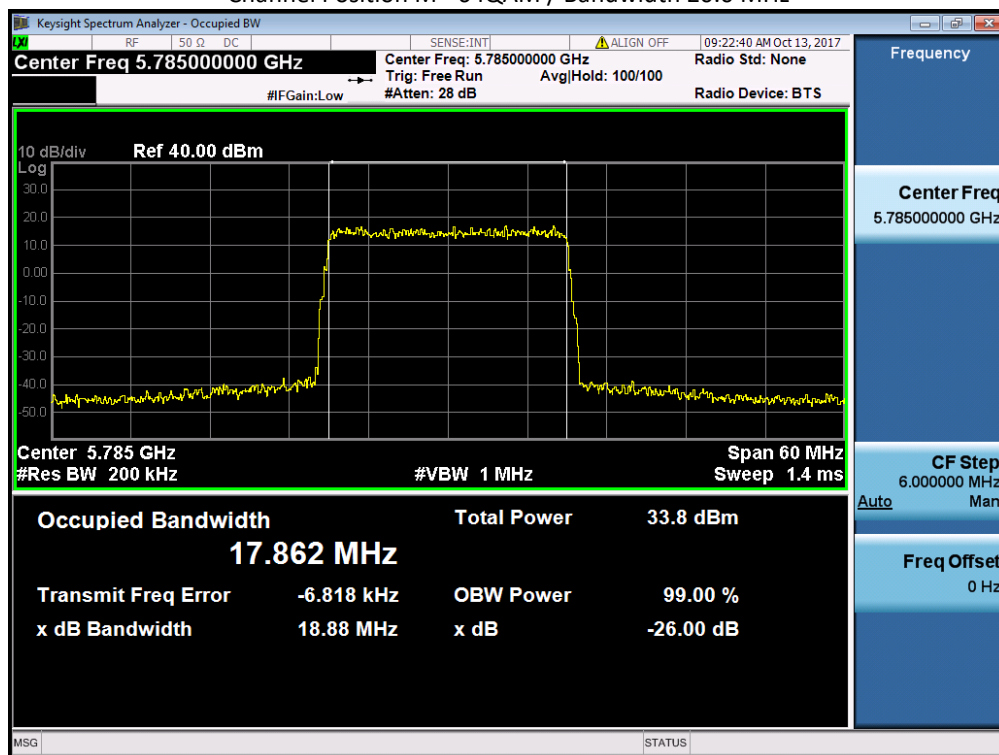
Channel Position T – 16QAM / Bandwidth 20.0 MHz



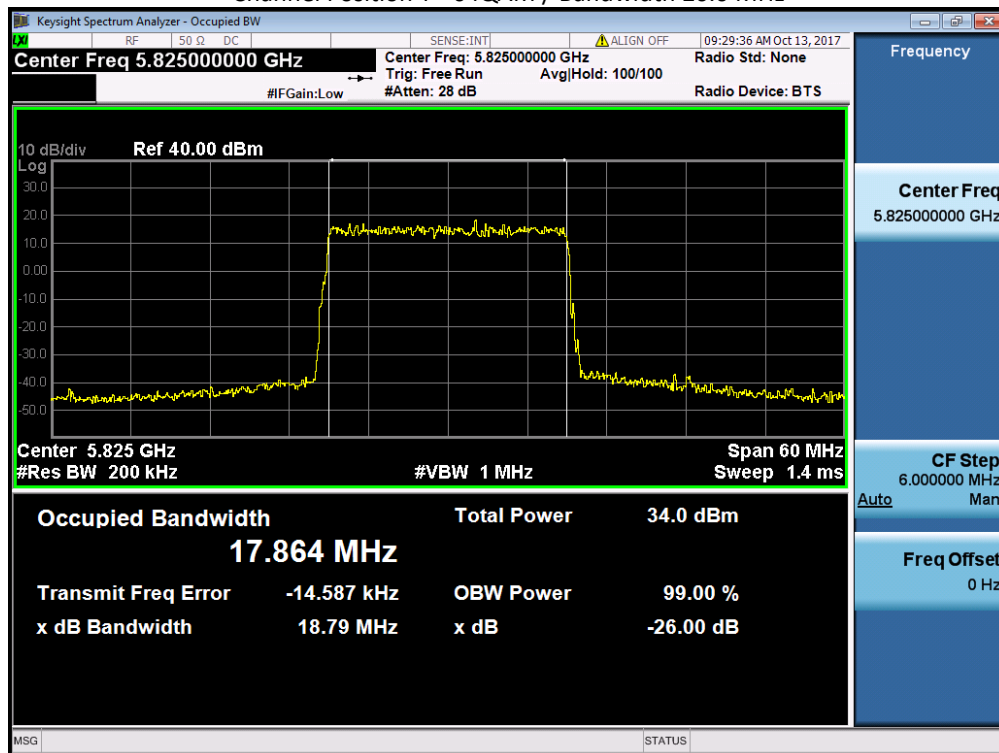
Channel Position B – 64QAM / Bandwidth 20.0 MHz



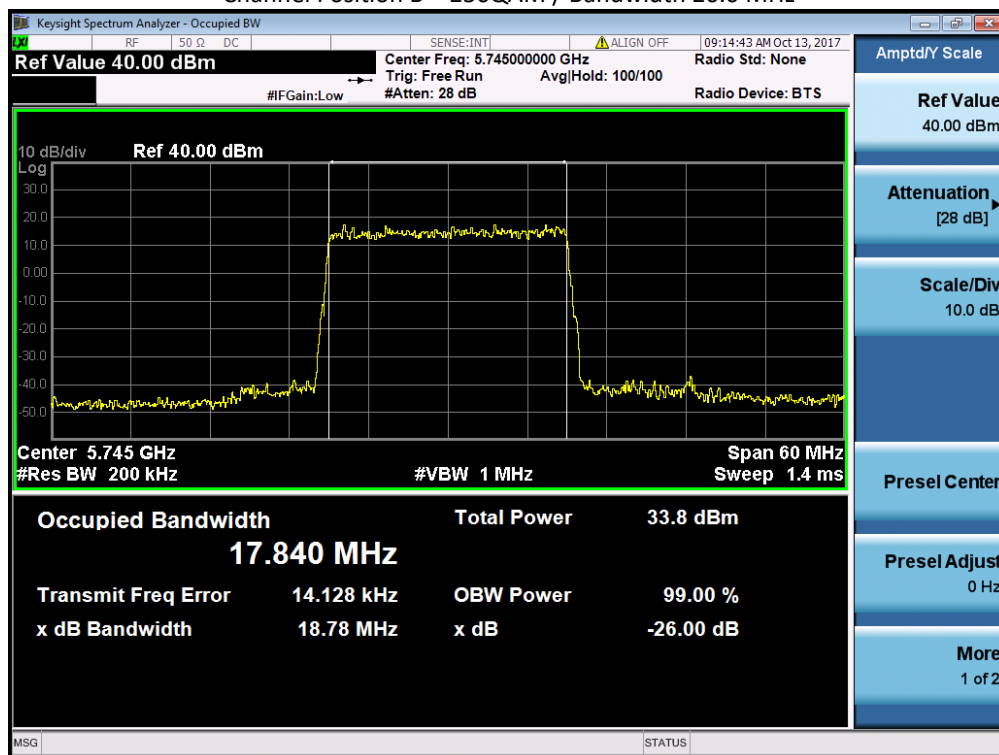
Channel Position M - 64QAM / Bandwidth 20.0 MHz



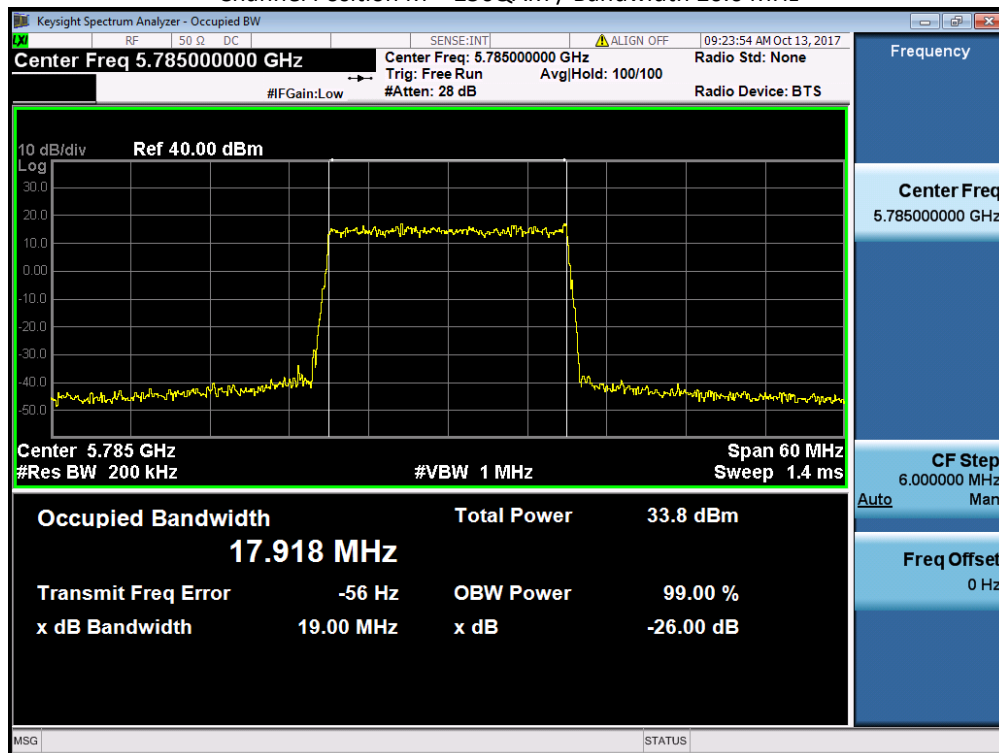
Channel Position T - 64QAM / Bandwidth 20.0 MHz



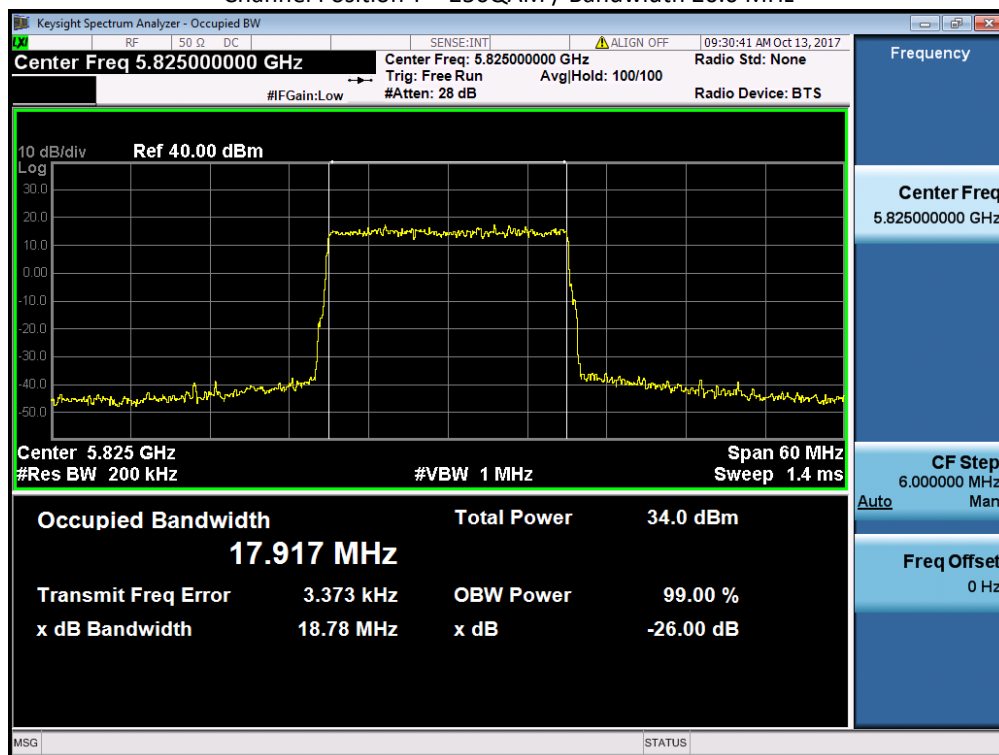
Channel Position B – 256QAM / Bandwidth 20.0 MHz



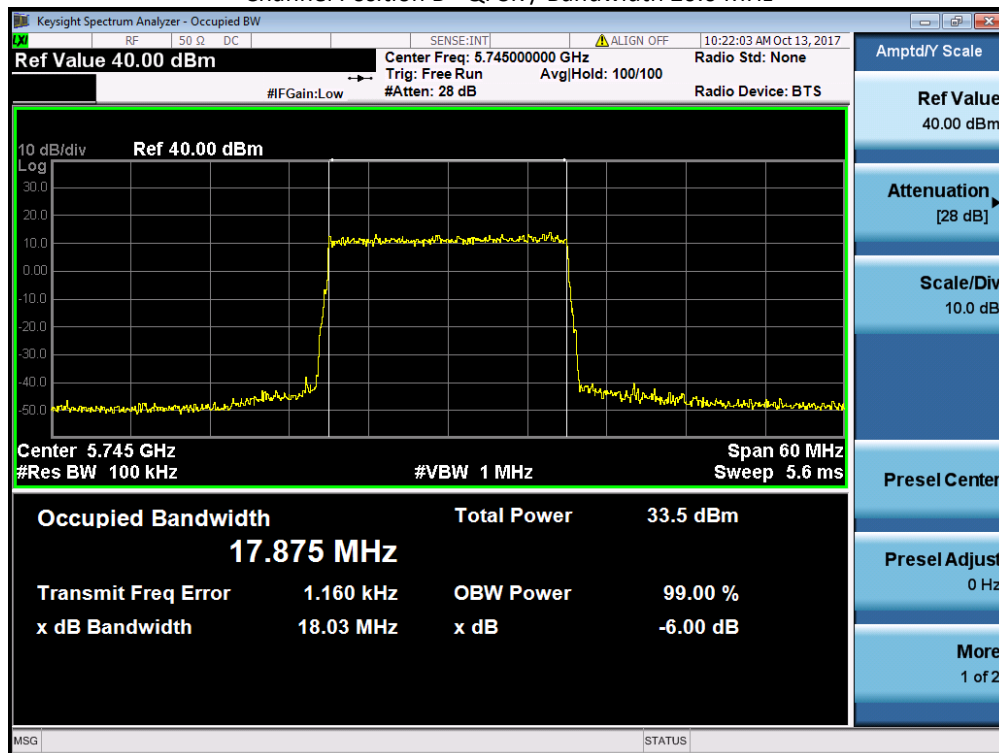
Channel Position M – 256QAM / Bandwidth 20.0 MHz



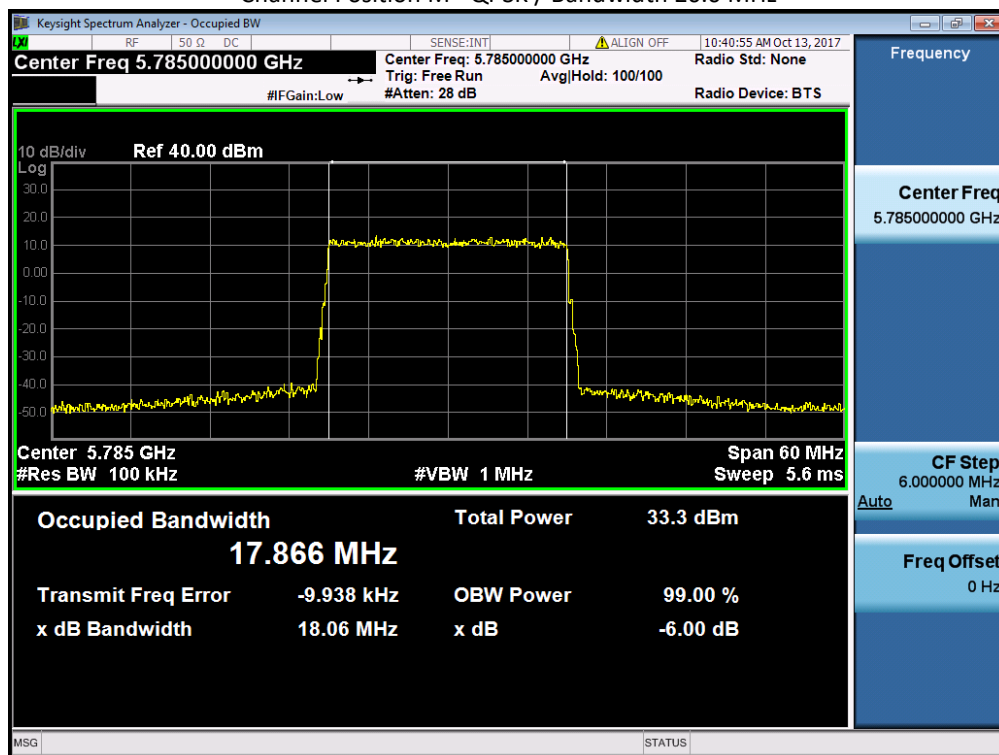
Channel Position T – 256QAM / Bandwidth 20.0 MHz



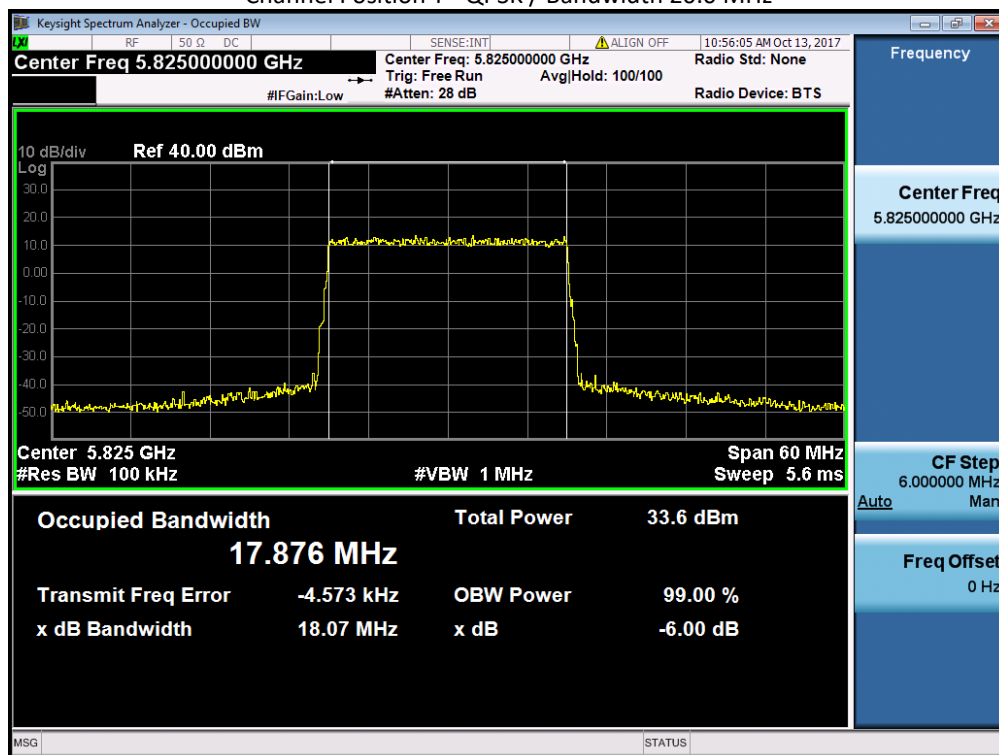
Channel Position B - QPSK / Bandwidth 20.0 MHz



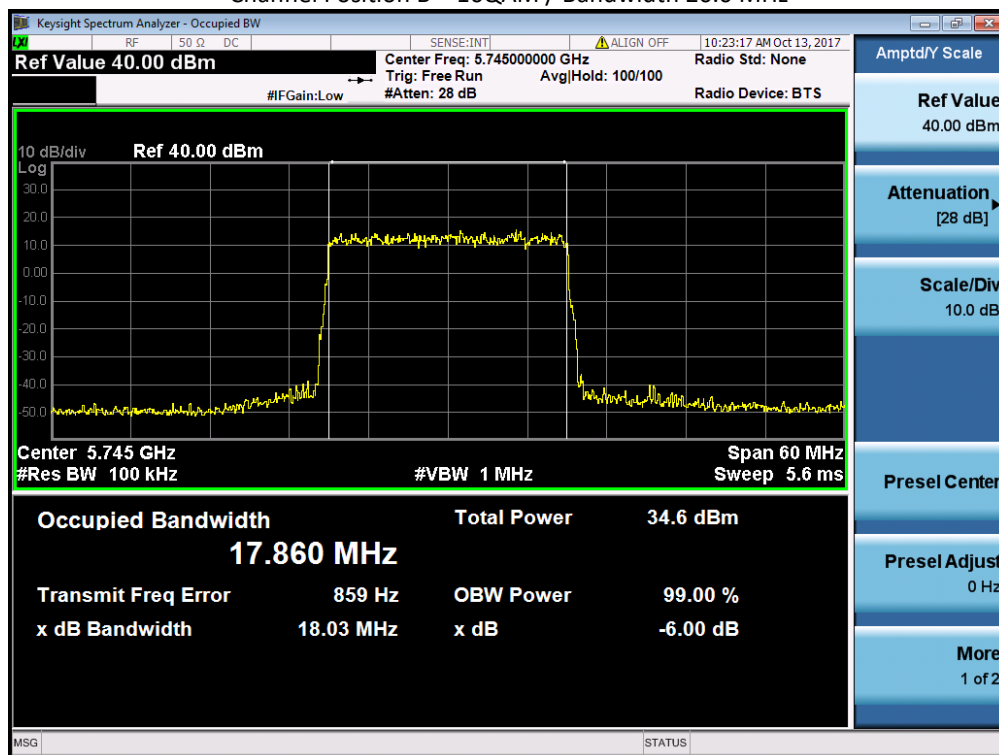
Channel Position M - QPSK / Bandwidth 20.0 MHz



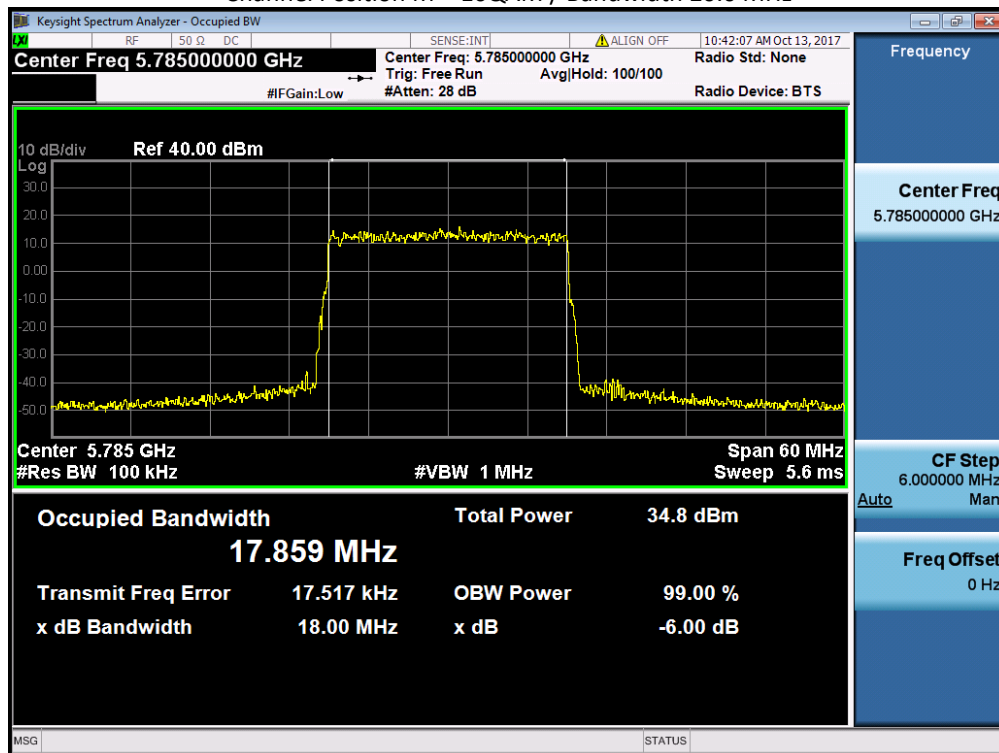
Channel Position T - QPSK / Bandwidth 20.0 MHz



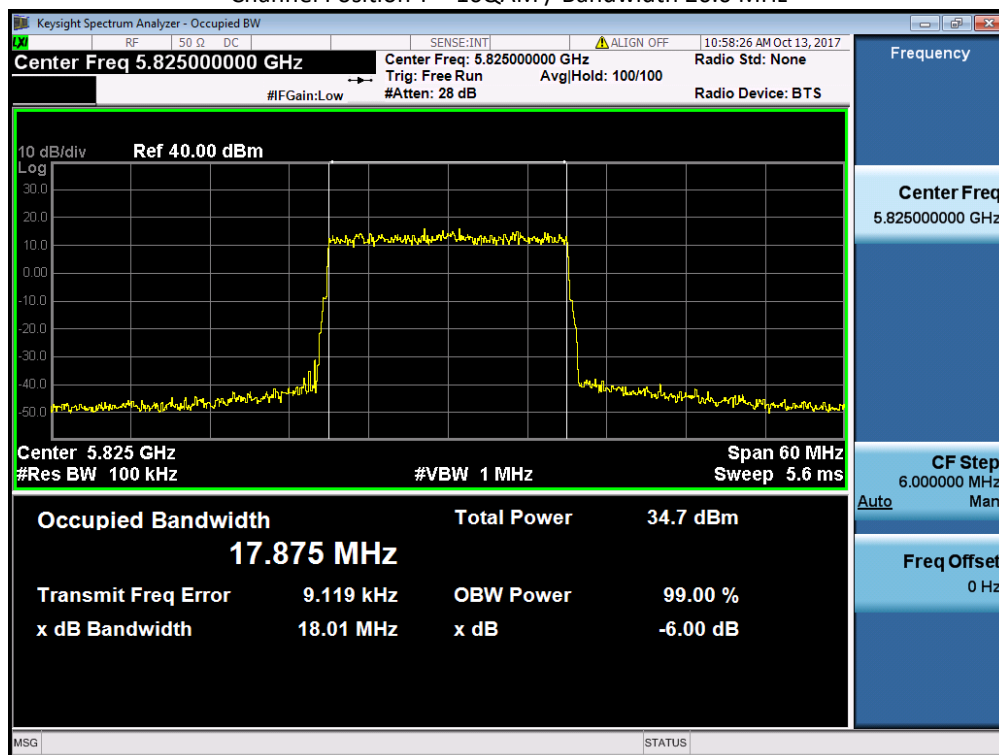
Channel Position B - 16QAM / Bandwidth 20.0 MHz



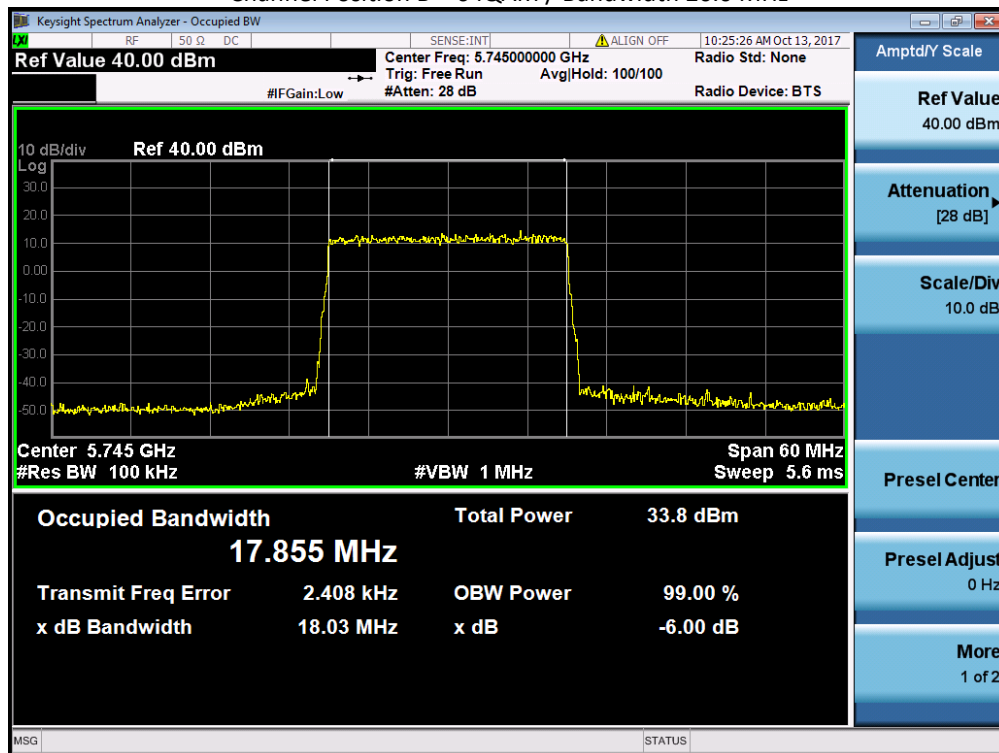
Channel Position M – 16QAM / Bandwidth 20.0 MHz



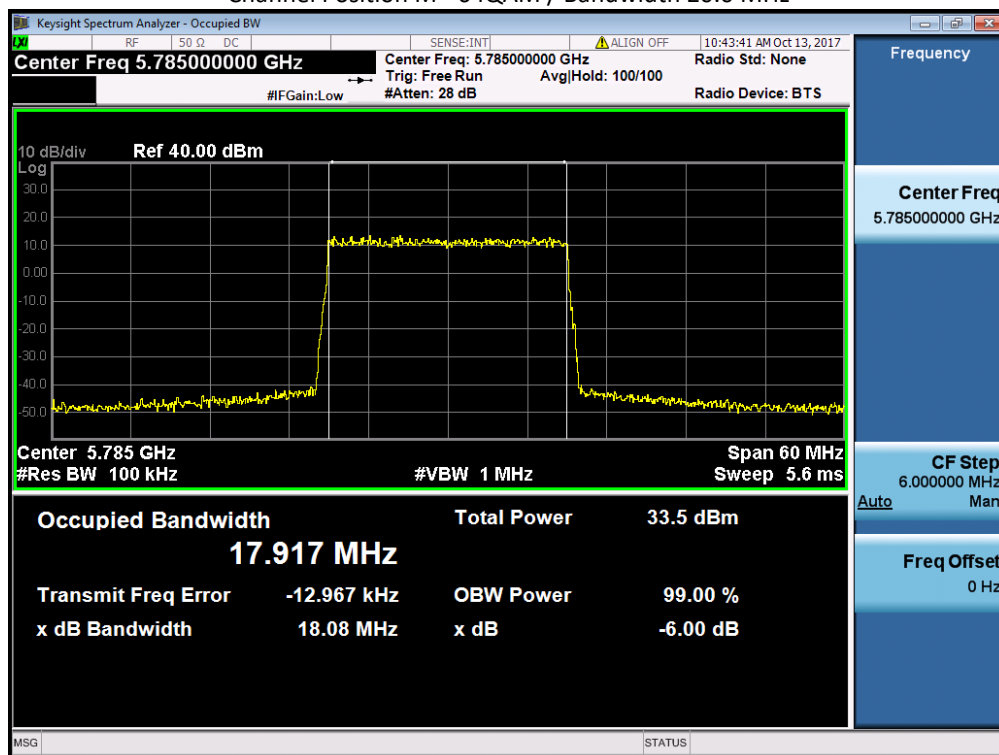
Channel Position T – 16QAM / Bandwidth 20.0 MHz



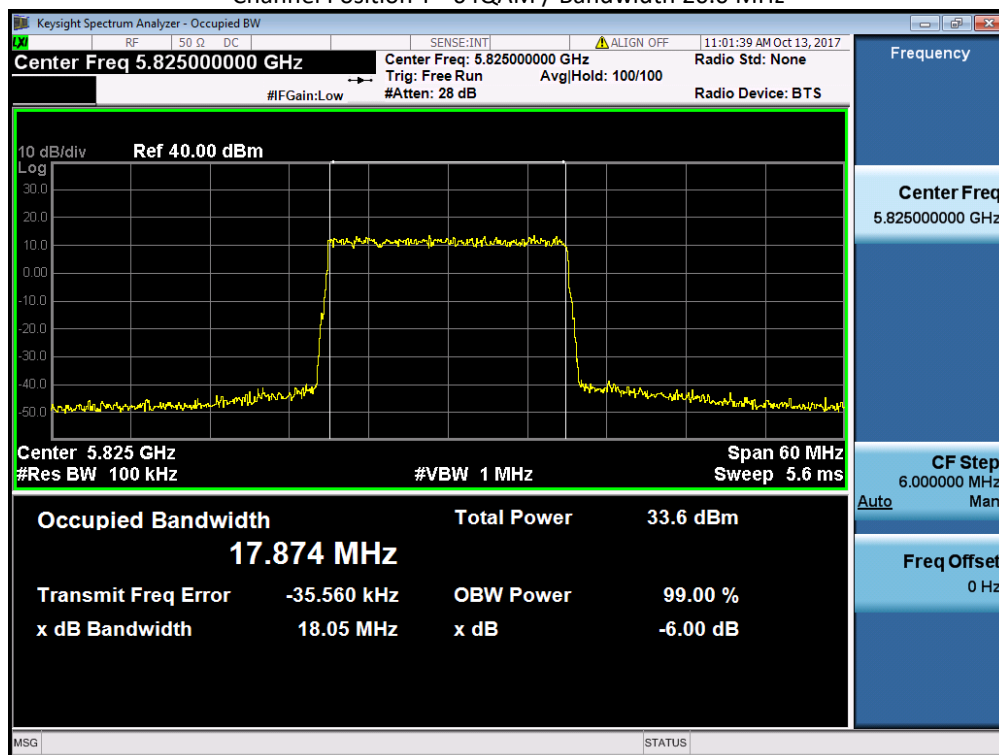
Channel Position B – 64QAM / Bandwidth 20.0 MHz



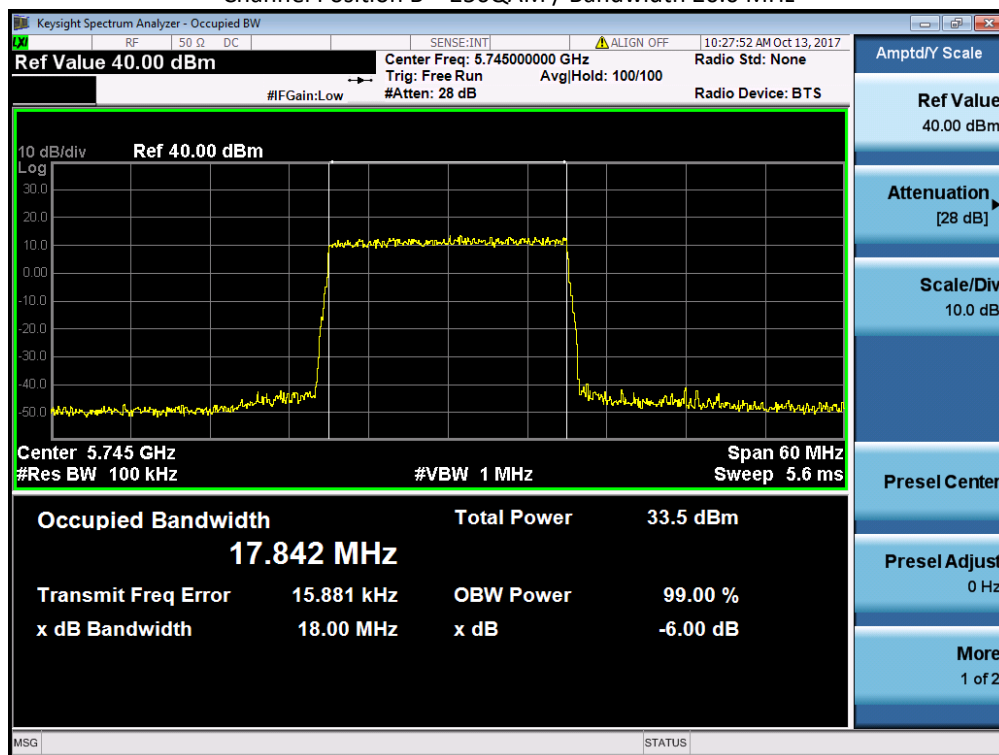
Channel Position M - 64QAM / Bandwidth 20.0 MHz



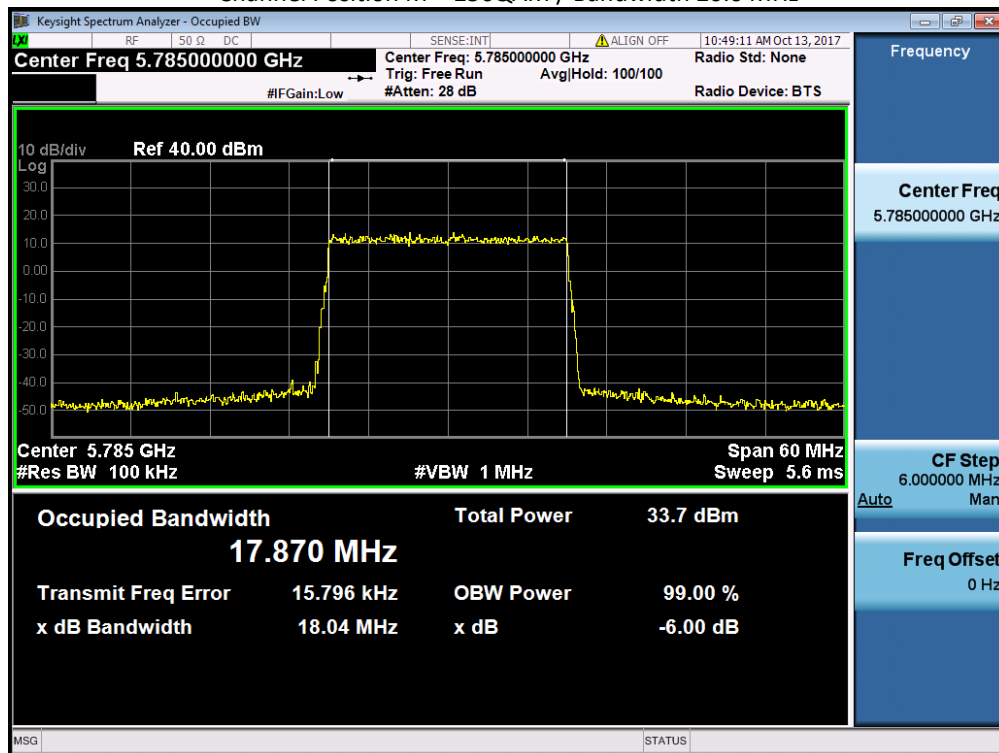
Channel Position T - 64QAM / Bandwidth 20.0 MHz



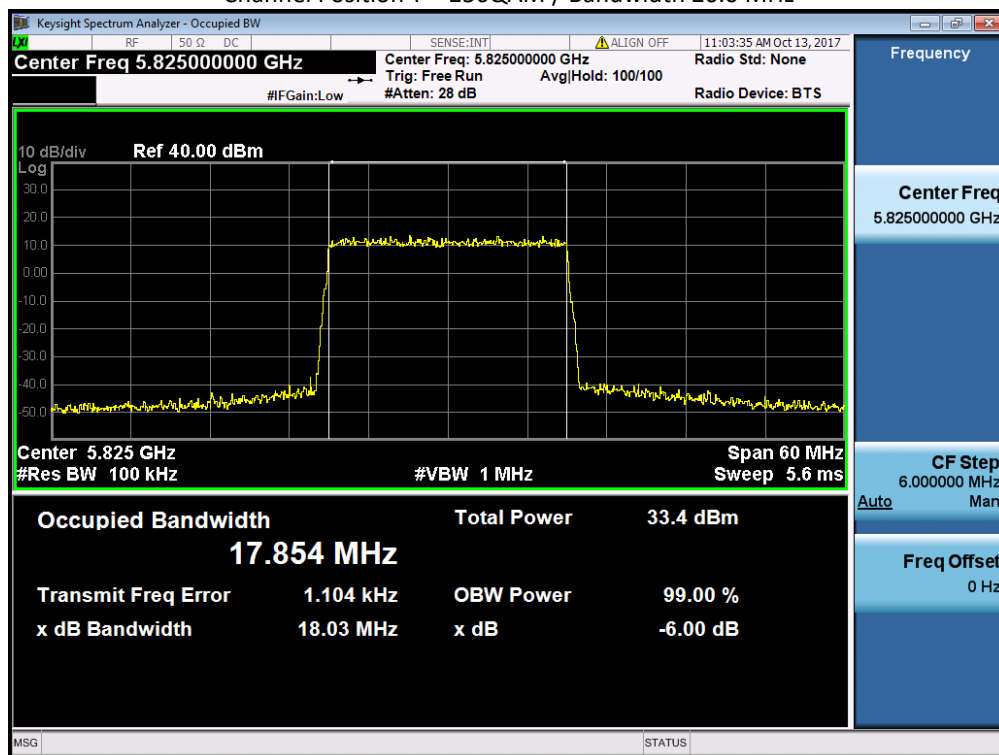
Channel Position B - 256QAM / Bandwidth 20.0 MHz



Channel Position M – 256QAM / Bandwidth 20.0 MHz



Channel Position T – 256QAM / Bandwidth 20.0 MHz



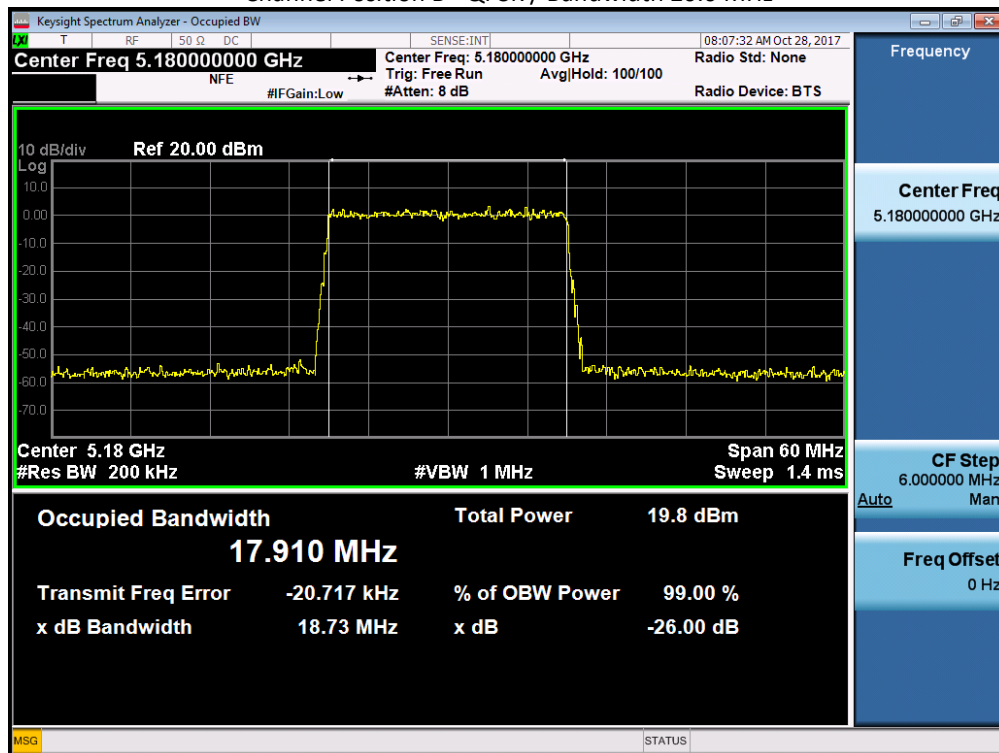
Configuration B3

L-MIMO-SC

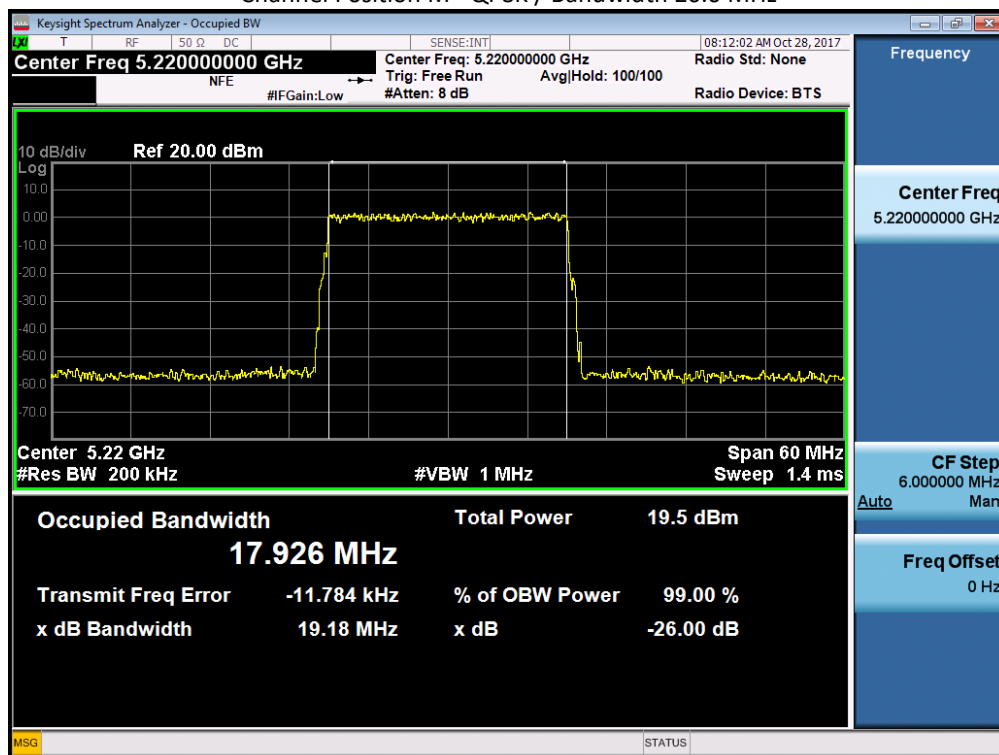
Maximum Output Power 12dBm per port:

Modulation / Bandwidth	Occupied Bandwidth (MHz)					
	Channel Position B 5180MHz		Channel Position M 5220MHz		Channel Position T 5240MHz	
	-26dB Bandwidth	99% Bandwidth	-26dB Bandwidth	99% Bandwidth	-26dB Bandwidth	99% Bandwidth
QPSK / 20.0MHz	18.73	17.910	19.18	17.926	18.97	17.794
16QAM / 20.0MHz	18.72	17.956	18.79	17.869	18.94	17.959
64QAM / 20.0MHz	18.90	17.864	18.76	17.868	18.87	17.908
256QAM / 20.0MHz	18.97	17.881	18.92	17.897	18.80	17.893

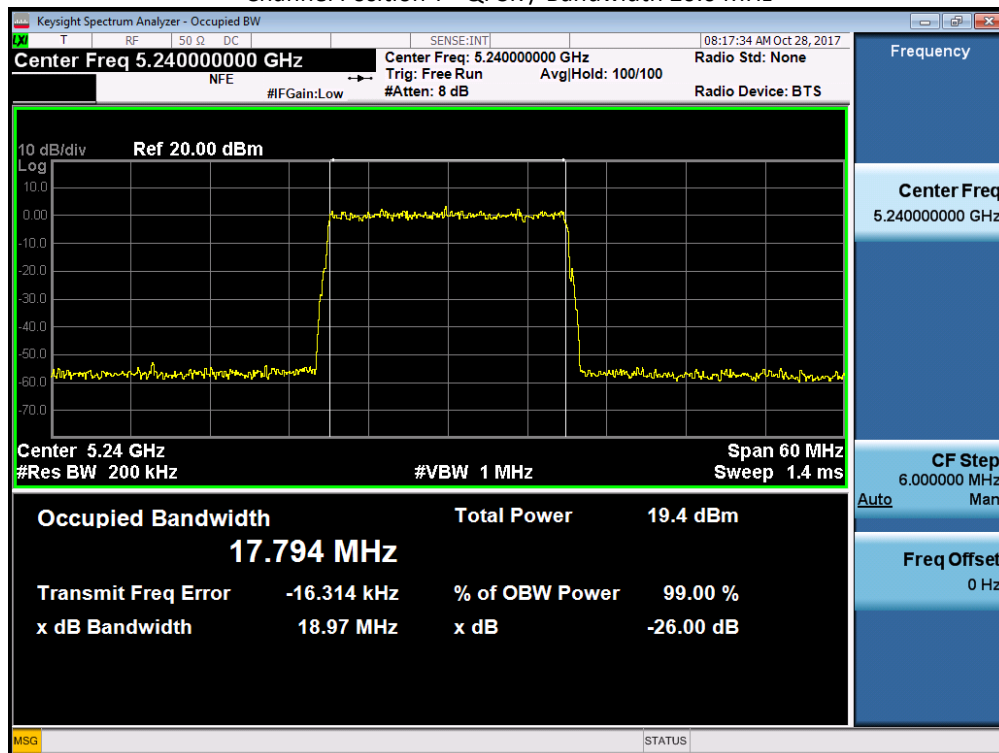
Channel Position B - QPSK / Bandwidth 20.0 MHz



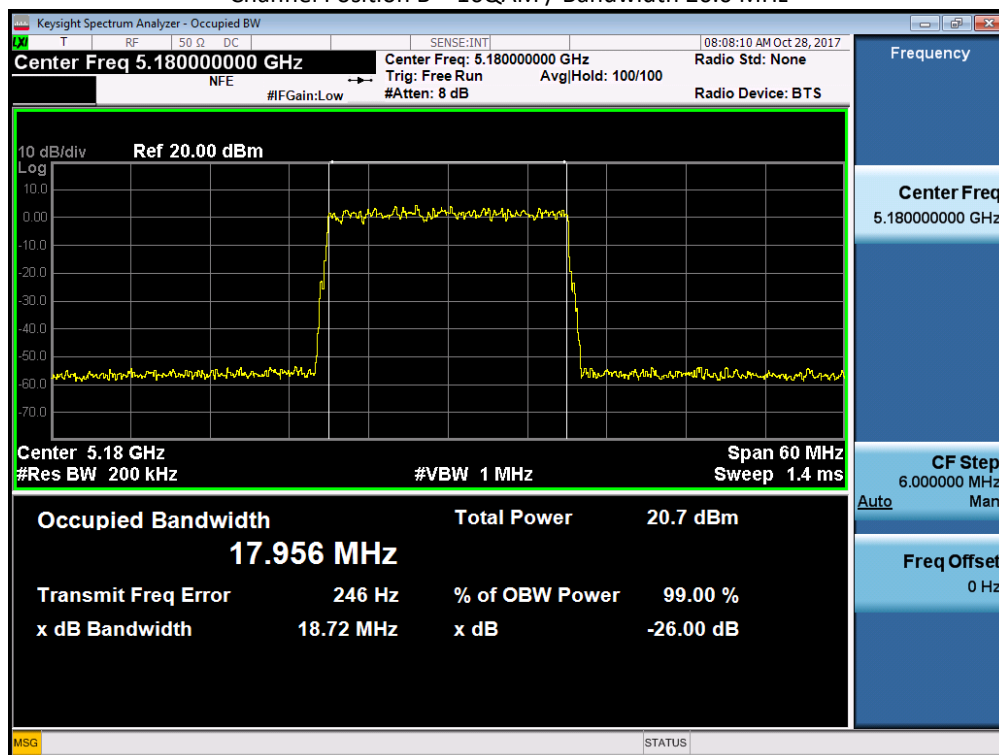
Channel Position M - QPSK / Bandwidth 20.0 MHz



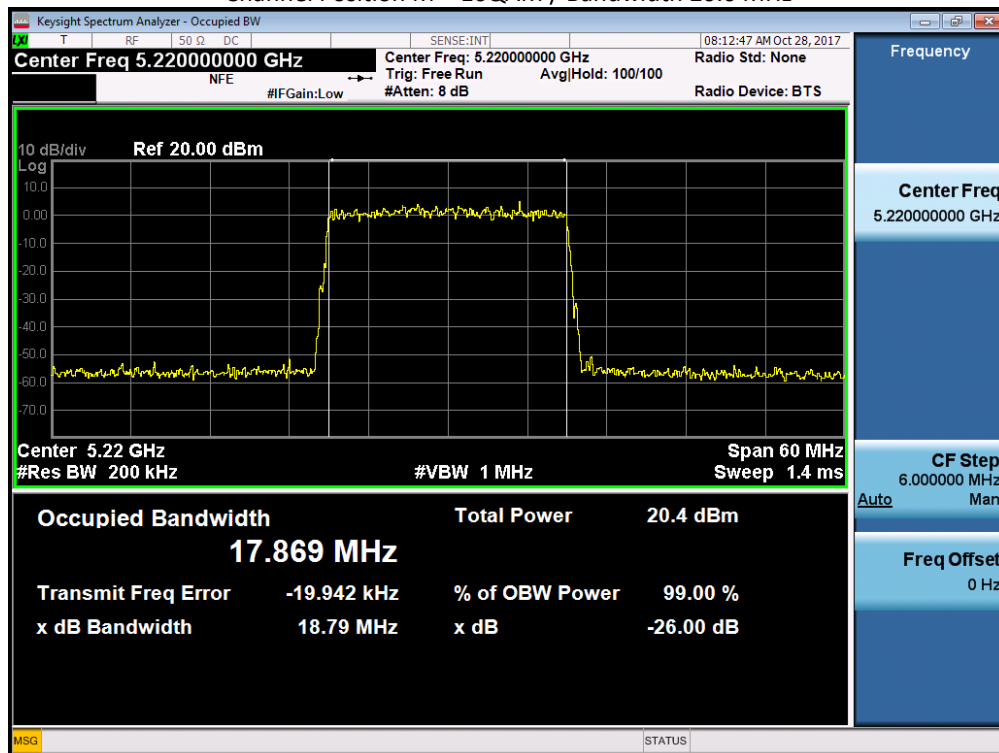
Channel Position T - QPSK / Bandwidth 20.0 MHz



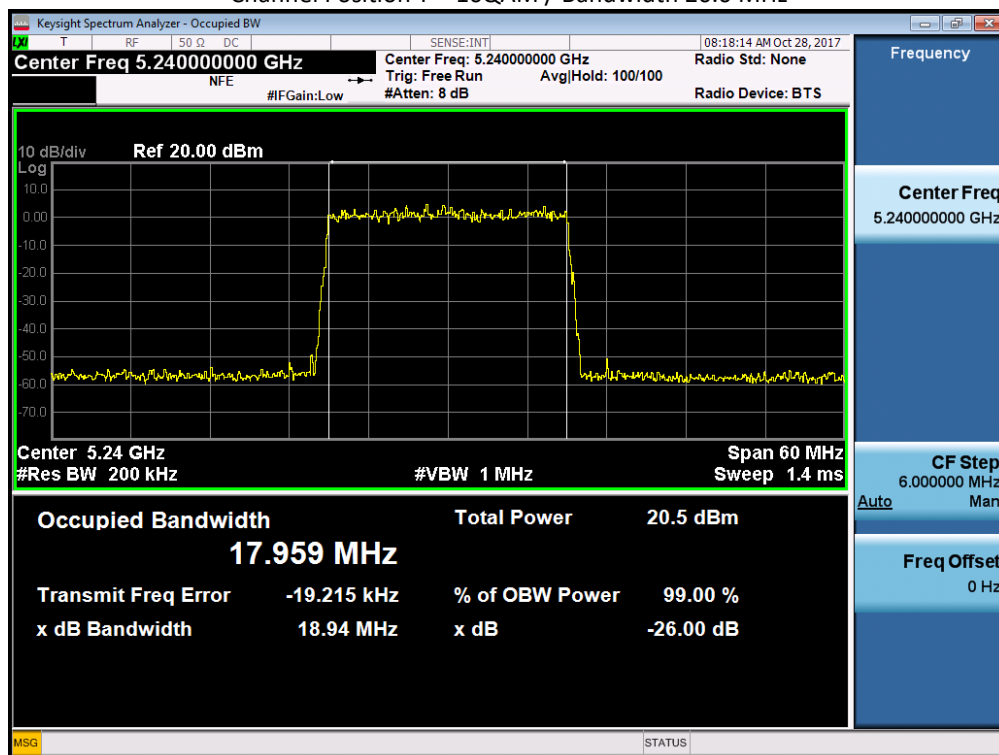
Channel Position B – 16QAM / Bandwidth 20.0 MHz



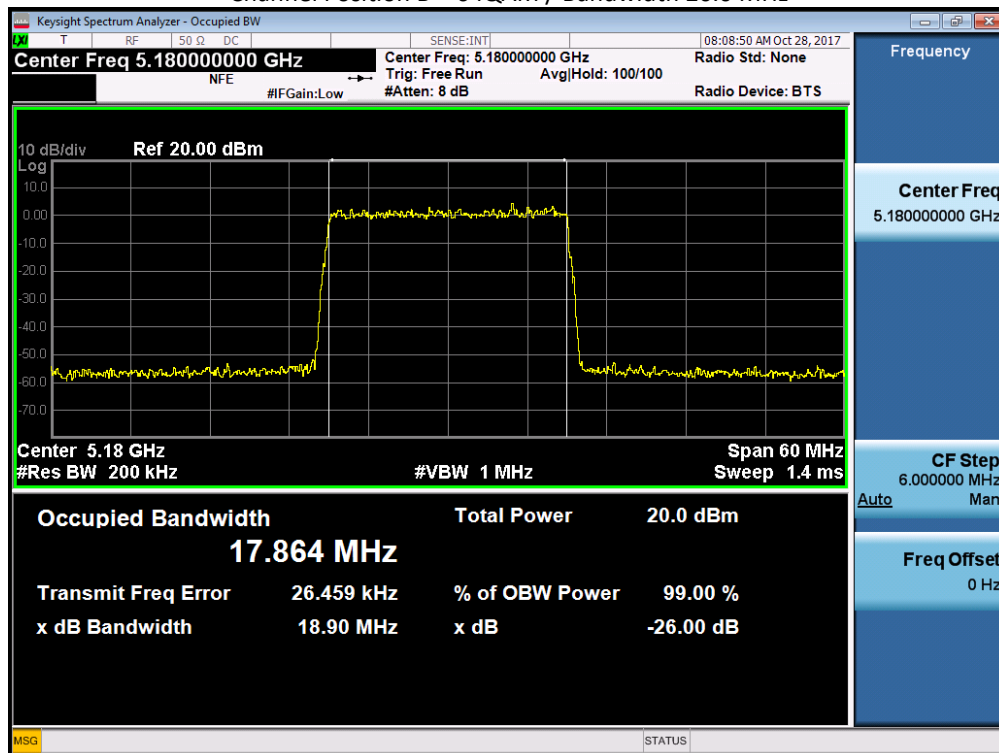
Channel Position M – 16QAM / Bandwidth 20.0 MHz



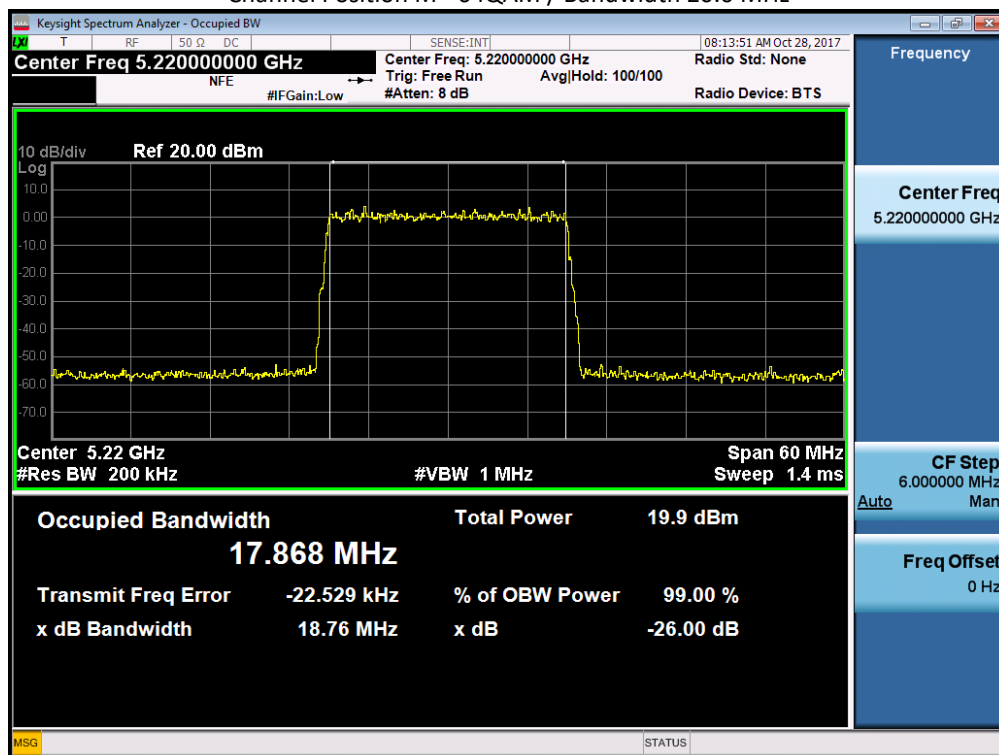
Channel Position T – 16QAM / Bandwidth 20.0 MHz



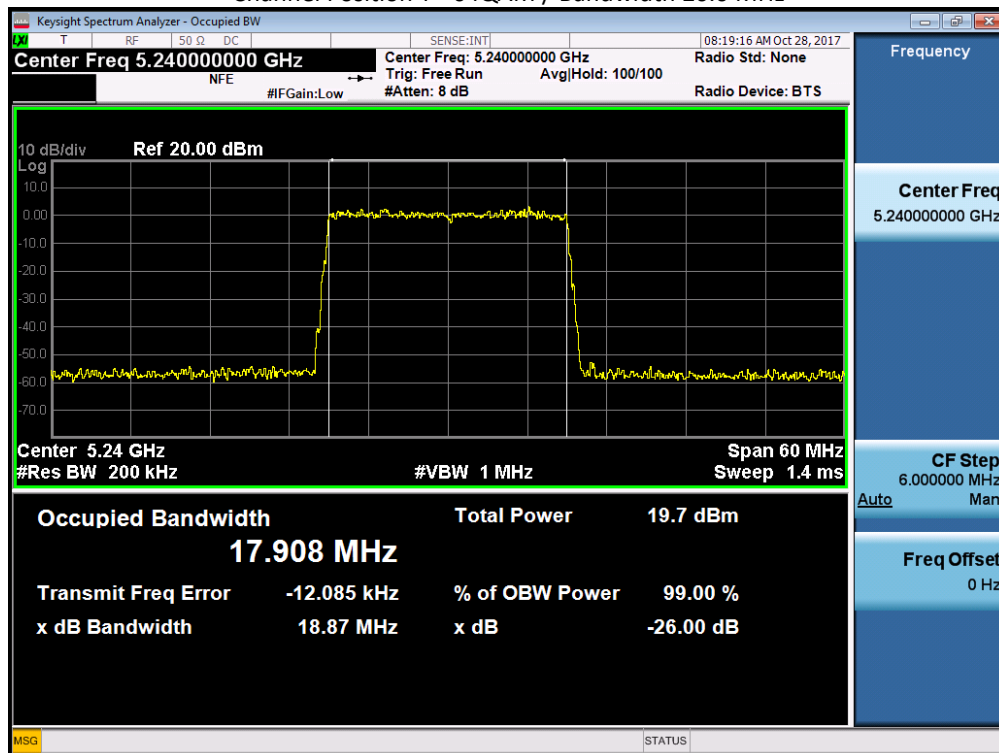
Channel Position B – 64QAM / Bandwidth 20.0 MHz



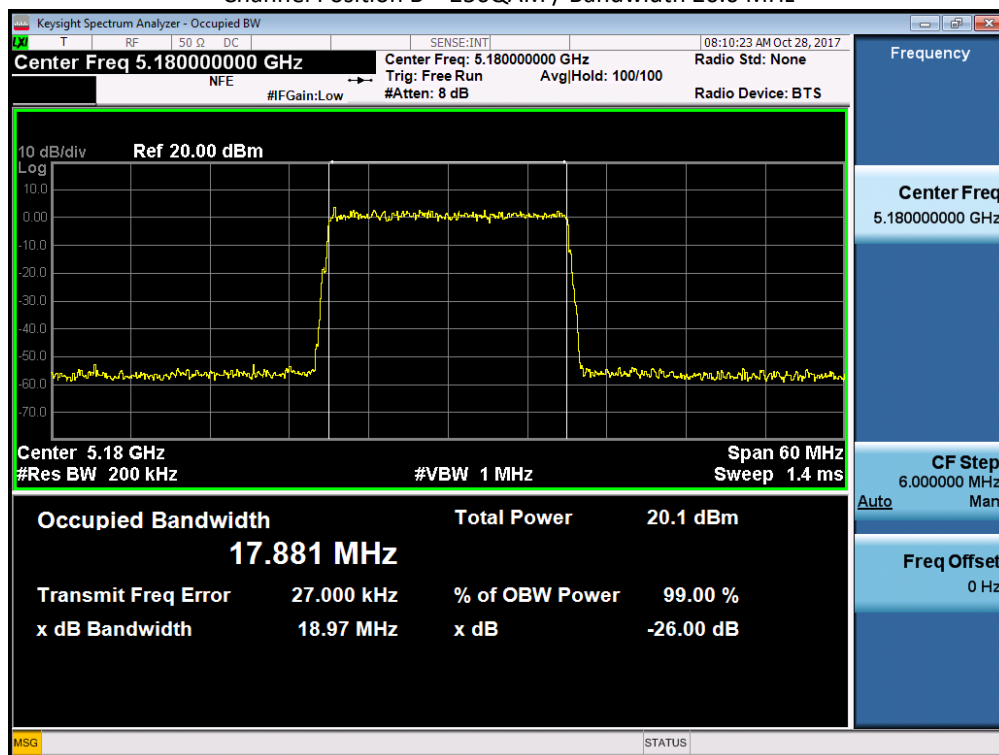
Channel Position M - 64QAM / Bandwidth 20.0 MHz



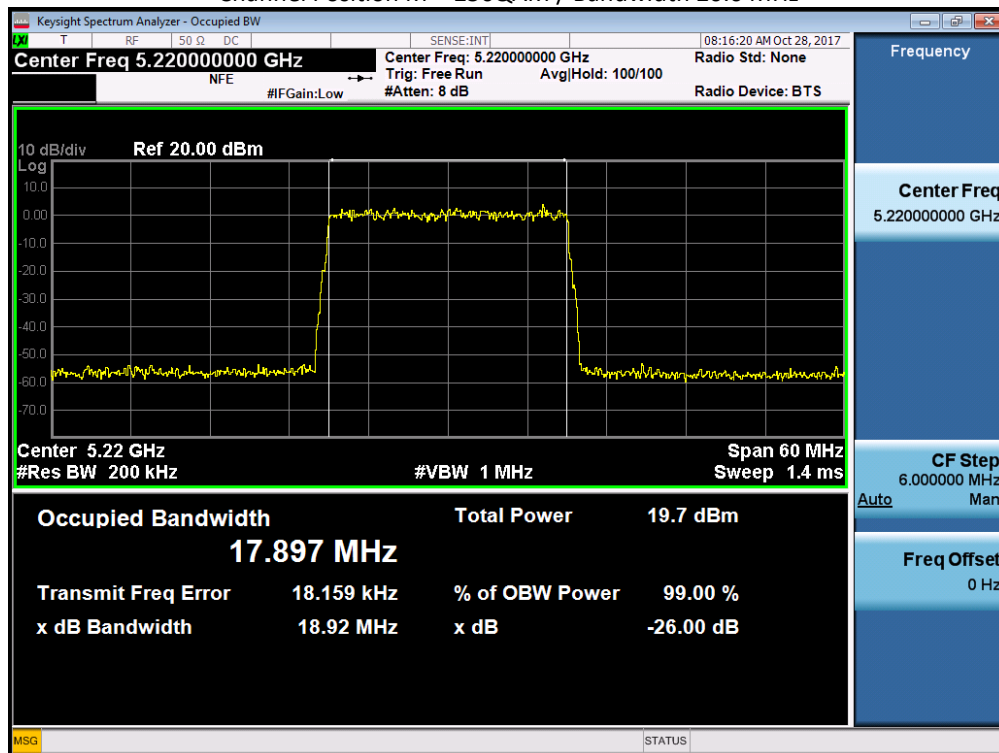
Channel Position T - 64QAM / Bandwidth 20.0 MHz



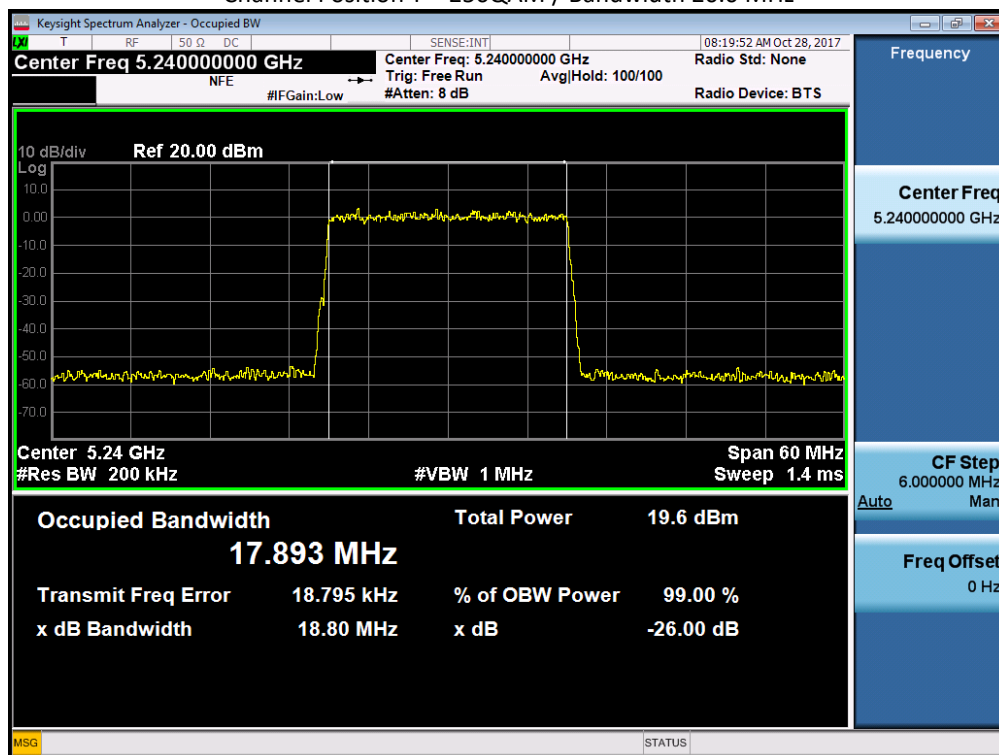
Channel Position B - 256QAM / Bandwidth 20.0 MHz



Channel Position M – 256QAM / Bandwidth 20.0 MHz



Channel Position T – 256QAM / Bandwidth 20.0 MHz



6 Undesirable Emission - Conducted

Test result: Pass

6.1 Limit

For transmitters operating in the 5.15 - 5.25 GHz band: All emissions outside of the 5.15 - 5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725 - 5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

6.2 Test Method

The test was applied in accordance with the test method requirements of FCC CFR 47 Part 15, clause 15.407(b) and clause 15.209, and RSS-247 Clause 6.

In accordance with FCC CFR 47 Part 15, Clause 15.407 (b) and RSS-247 Clause 6, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15 - 5.25 GHz band: All emissions outside of the 5.15 - 5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.725 - 5.85 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (3) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.
- (4) The provisions of § 15.205 apply to intentional radiators operating under this section.
The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 1MHz to 40GHz. The resolution bandwidth of 1MHz was employed for frequency band 1MHz to 40GHz. The spectrum analyzer was set to peak detection and max hold mode.

For MIMO mode configurations, the limit was adjusted with a correction of -3.01dB [10Log2] by using the Measure and Add 10Log(N) dB technique according to FCC KDB 662911 D01 Multiple Transmitter Output v02r01 accounting for simultaneous transmission from antenna ports RF A and RF B.

The measurements were performed on the output connector RF A. Limited complementary measurement were done at output connector RF B to verify identical performance for both transmitter chains in MIMO mode.

The maximum path loss across the measurement band was used as the reference level offset to ensure worst case.

The worst results are shown in the plots below.

6.3 Test results

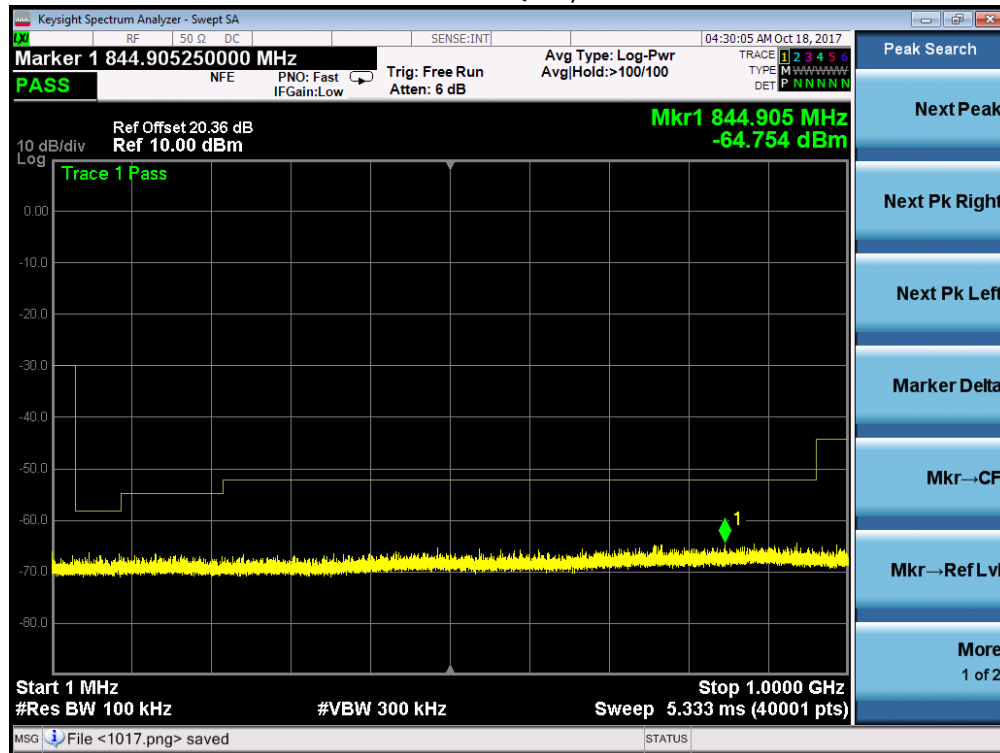
Configuration A1

L-MIMO-SC

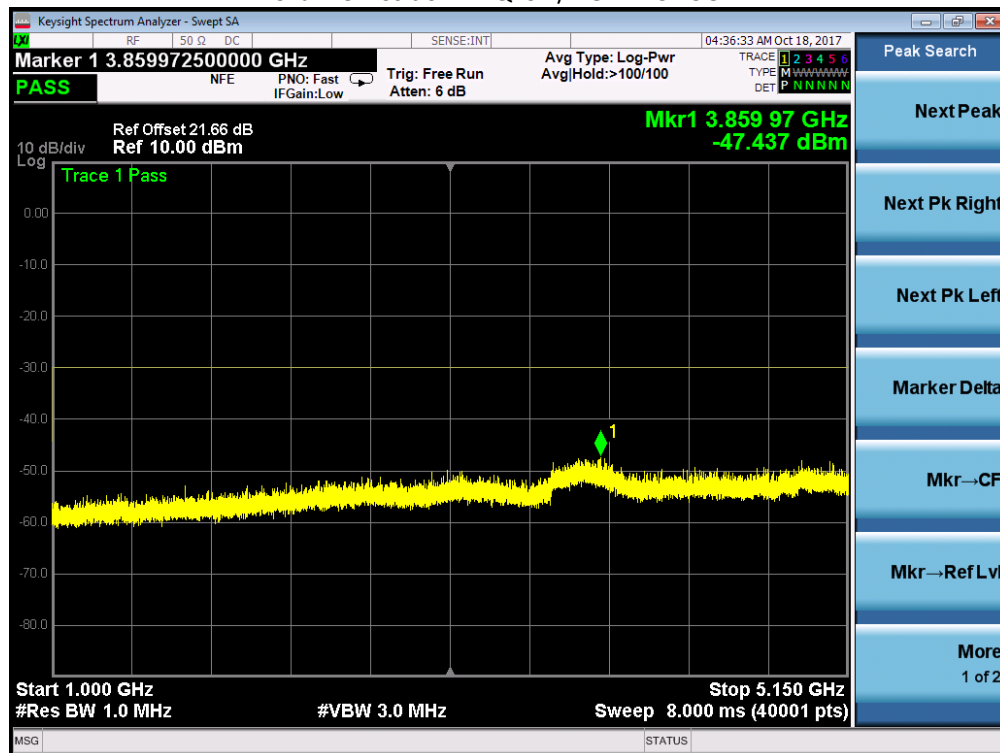
Maximum Output Power 20.5dBm per port:

Channel Position	Bandwidth (MHz)	Channel Frequency
B	20.0 MHz	5180MHz
M	20.0 MHz	5220MHz
T	20.0 MHz	5240MHz

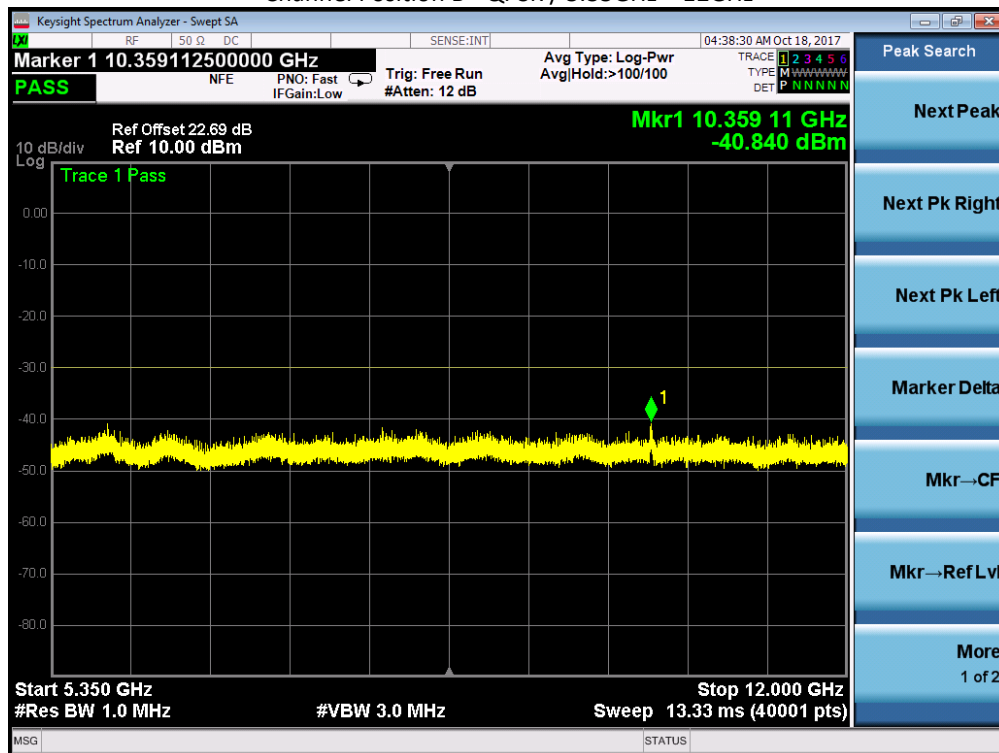
Channel Position B - QPSK / 1MHz – 1GHz



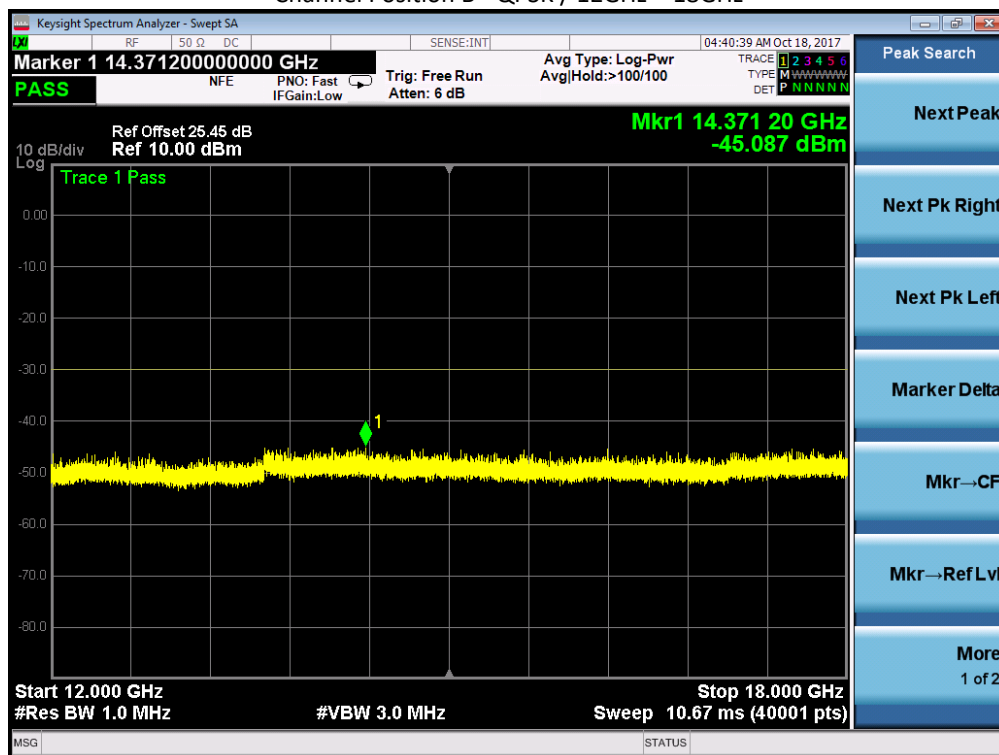
Channel Position B - QPSK / 1GHz – 5.15GHz



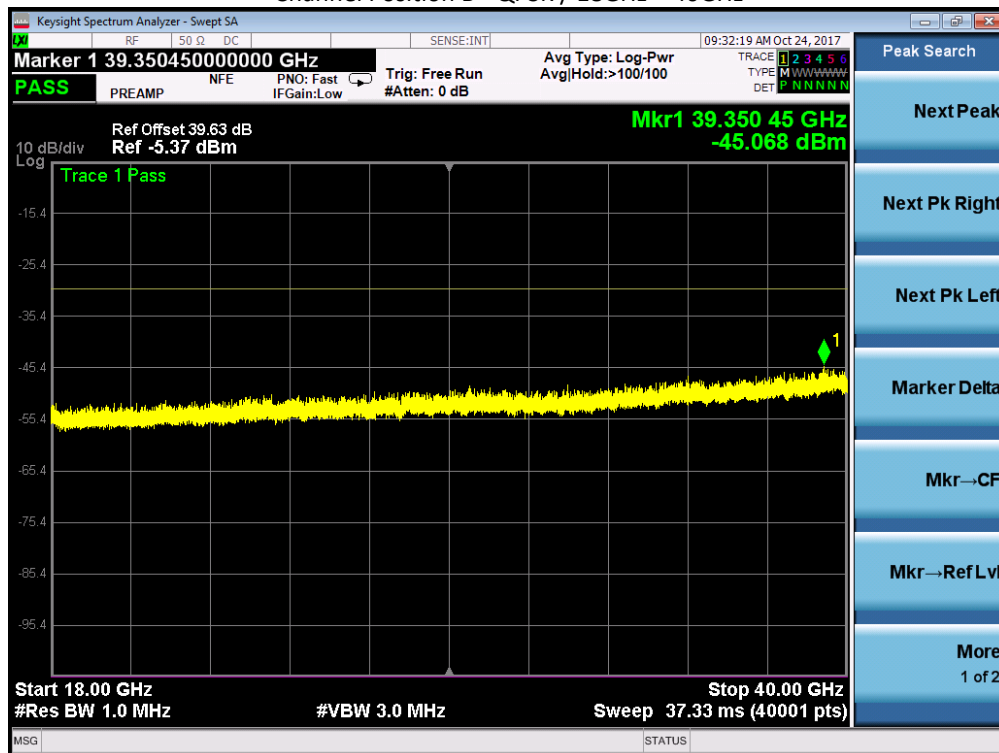
Channel Position B - QPSK / 5.35GHz – 12GHz



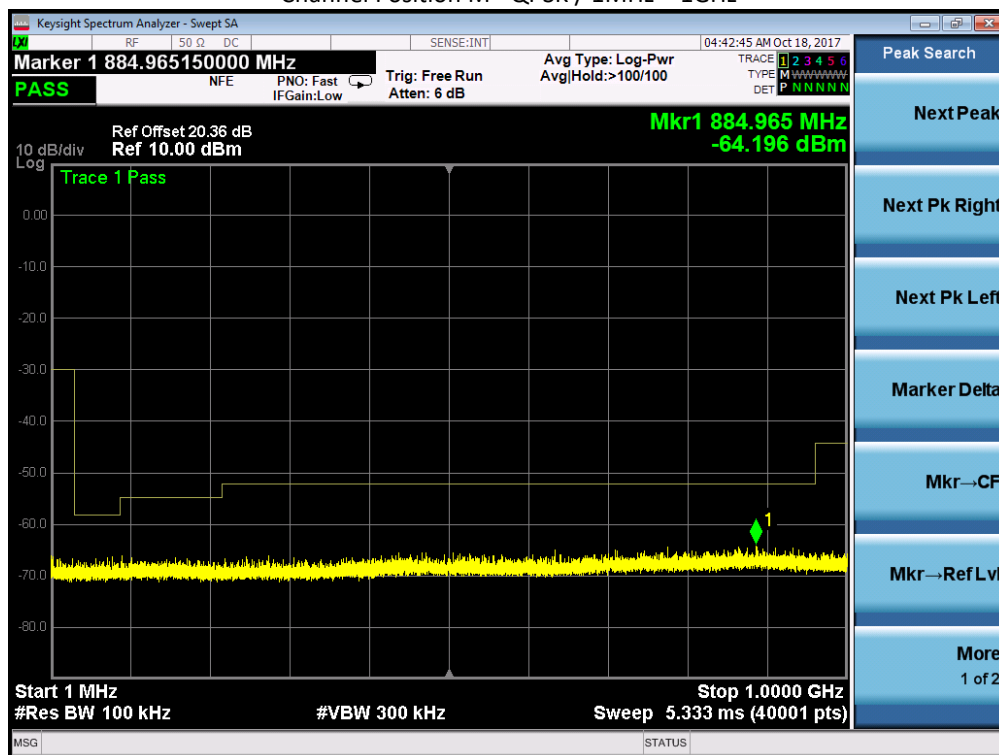
Channel Position B - QPSK / 12GHz – 18GHz



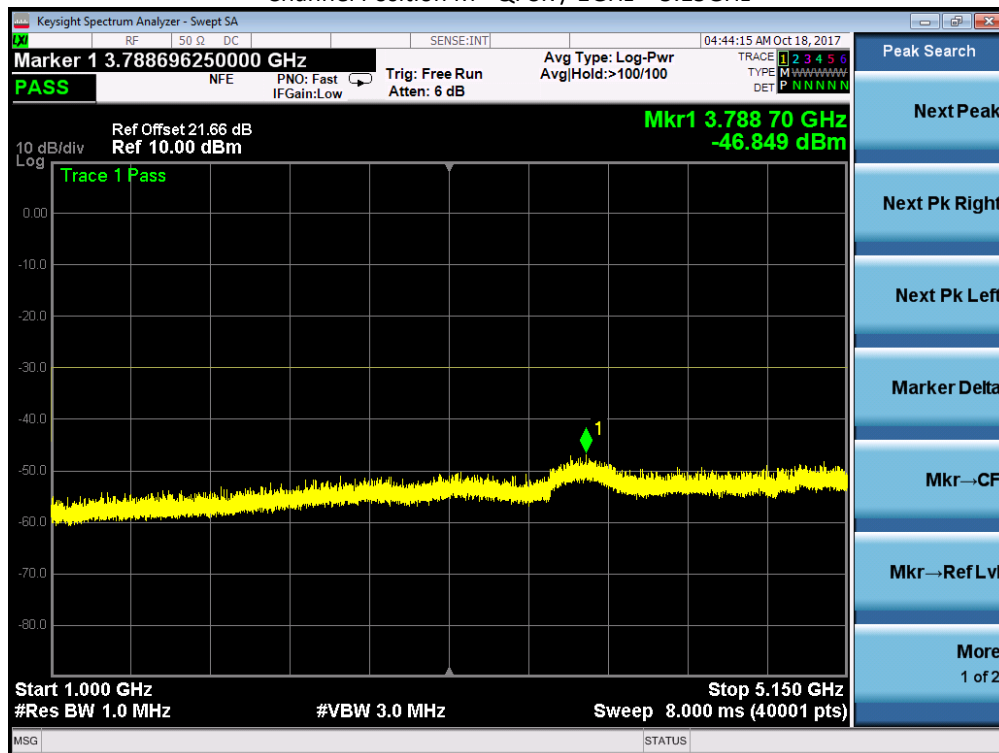
Channel Position B - QPSK / 18GHz – 40GHz



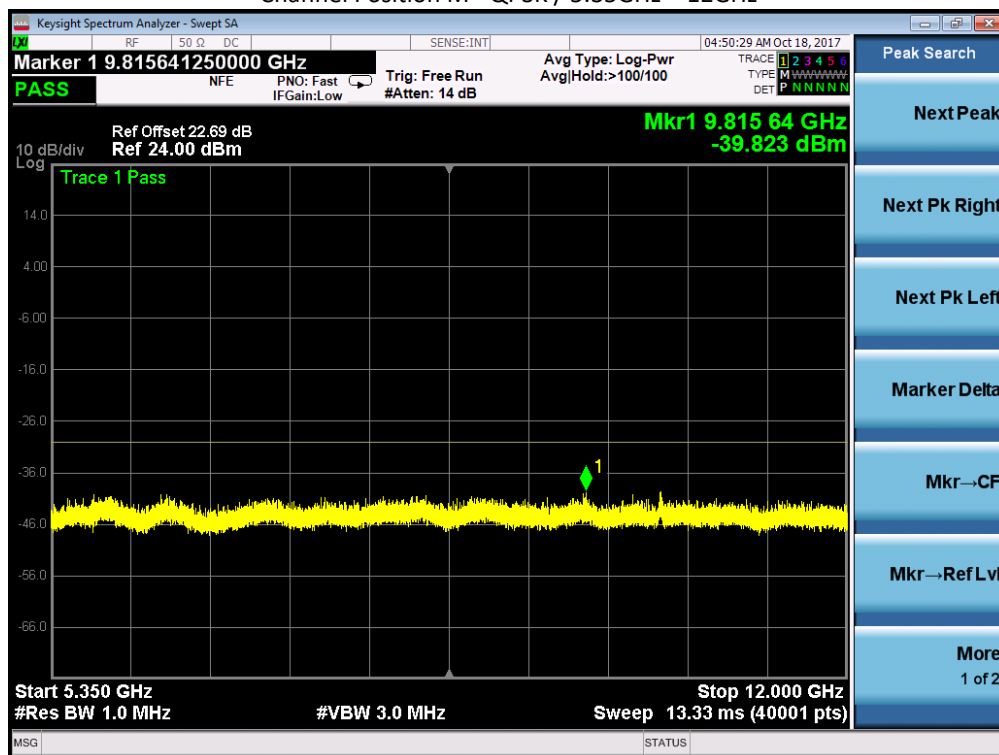
Channel Position M - QPSK / 1MHz – 1GHz



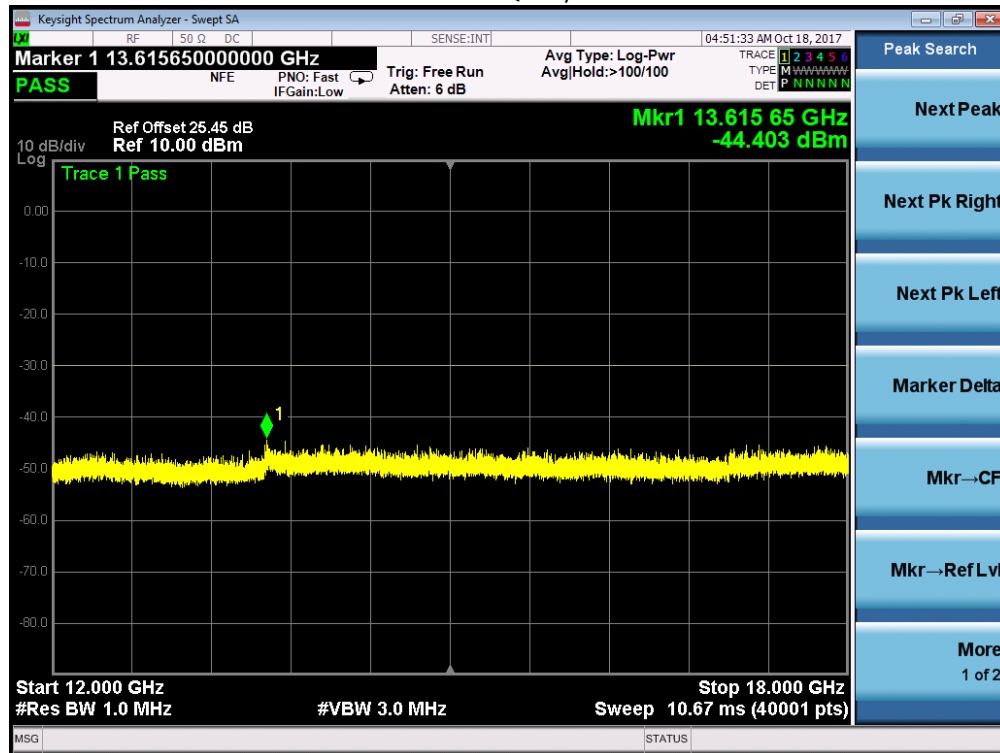
Channel Position M - QPSK / 1GHz – 5.15GHz



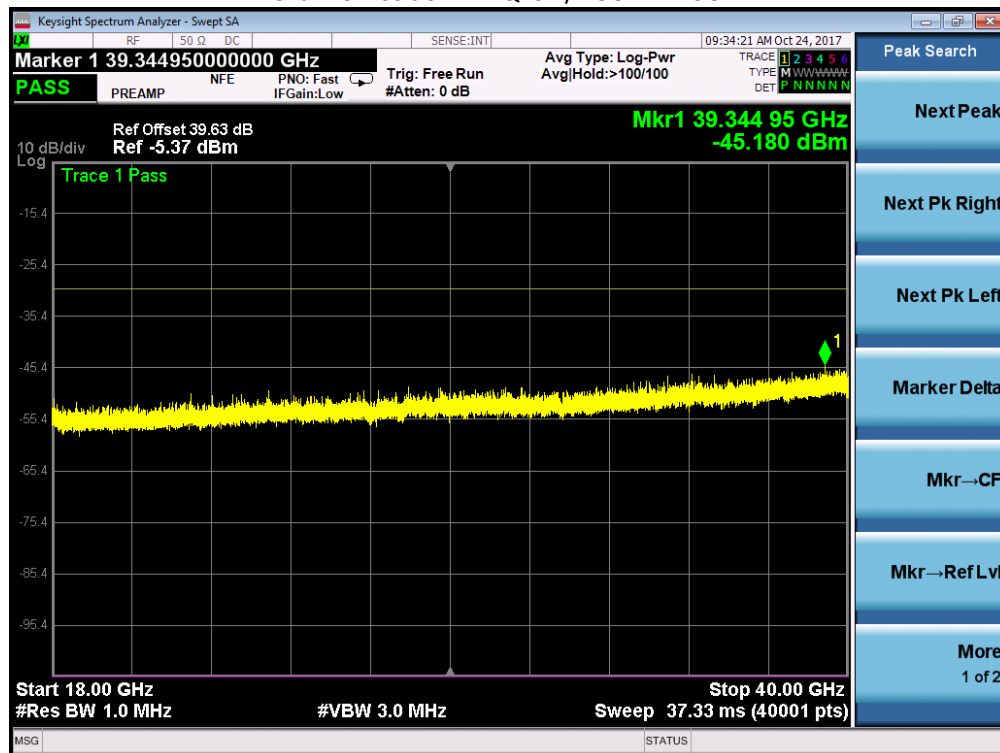
Channel Position M - QPSK / 5.35GHz – 12GHz



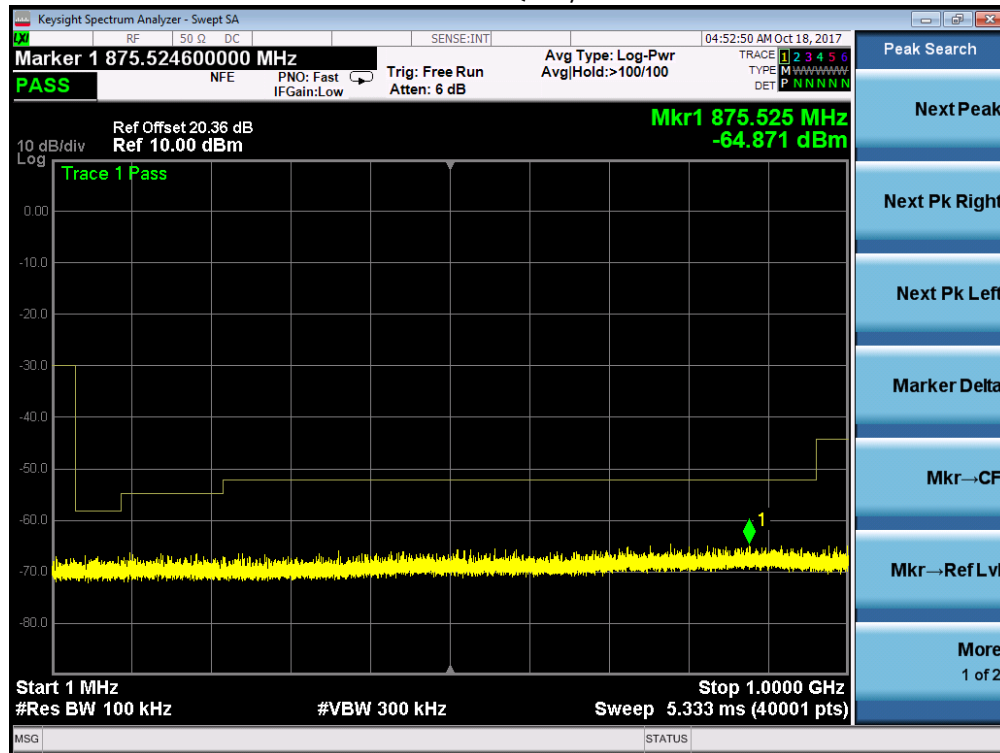
Channel Position M - QPSK / 12GHz – 18GHz



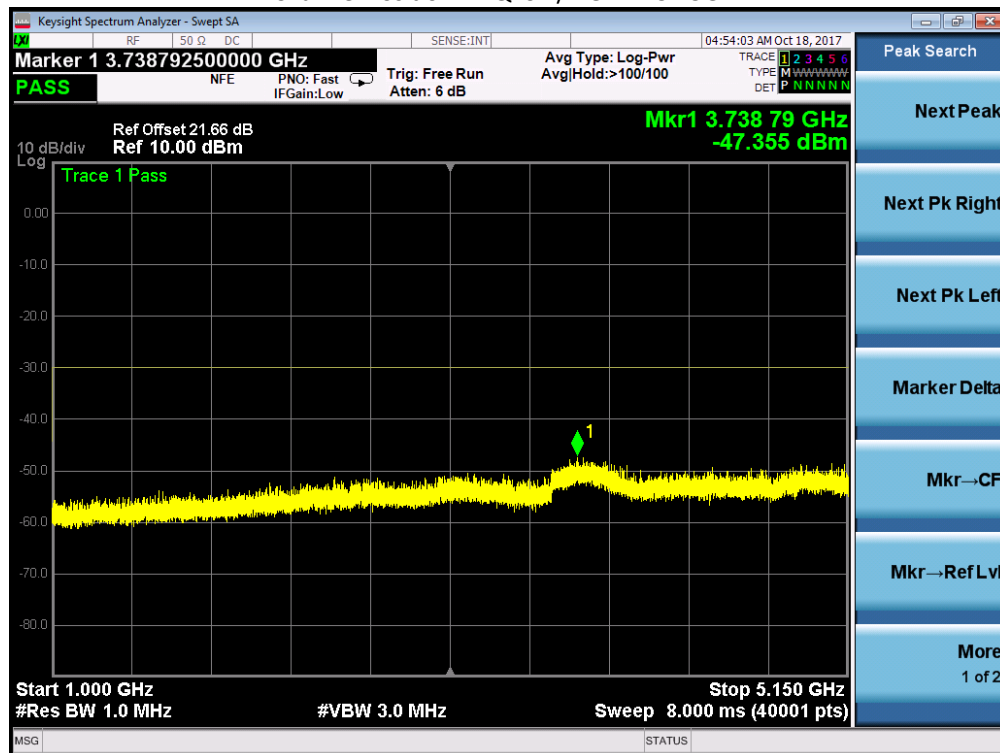
Channel Position M - QPSK / 18GHz – 40GHz



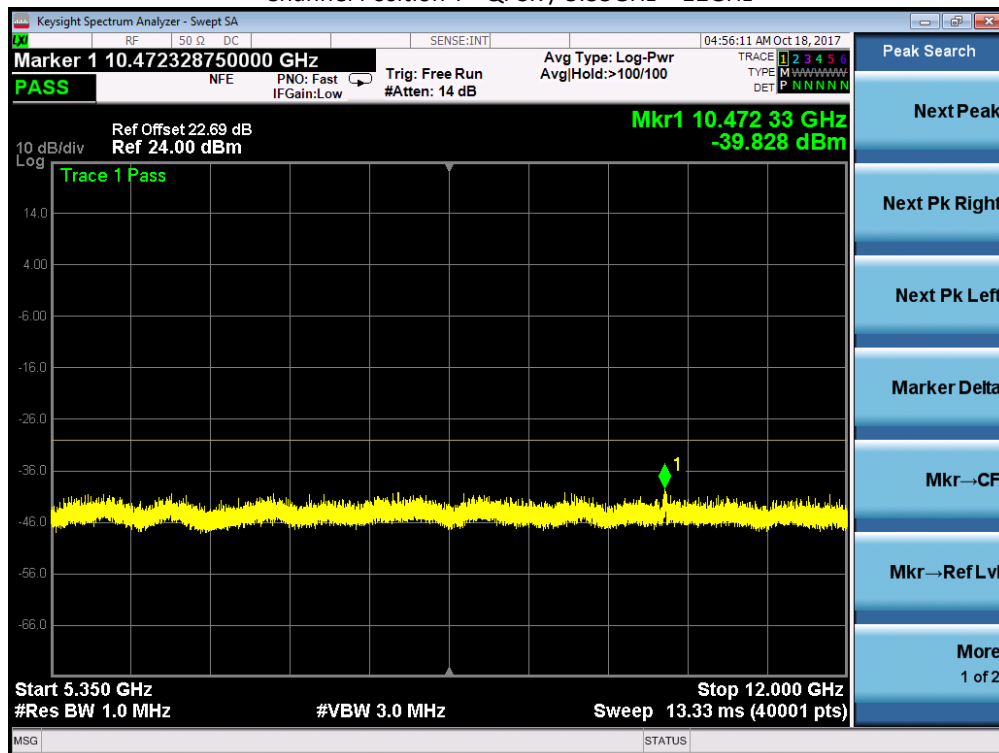
Channel Position T - QPSK / 1MHz – 1GHz



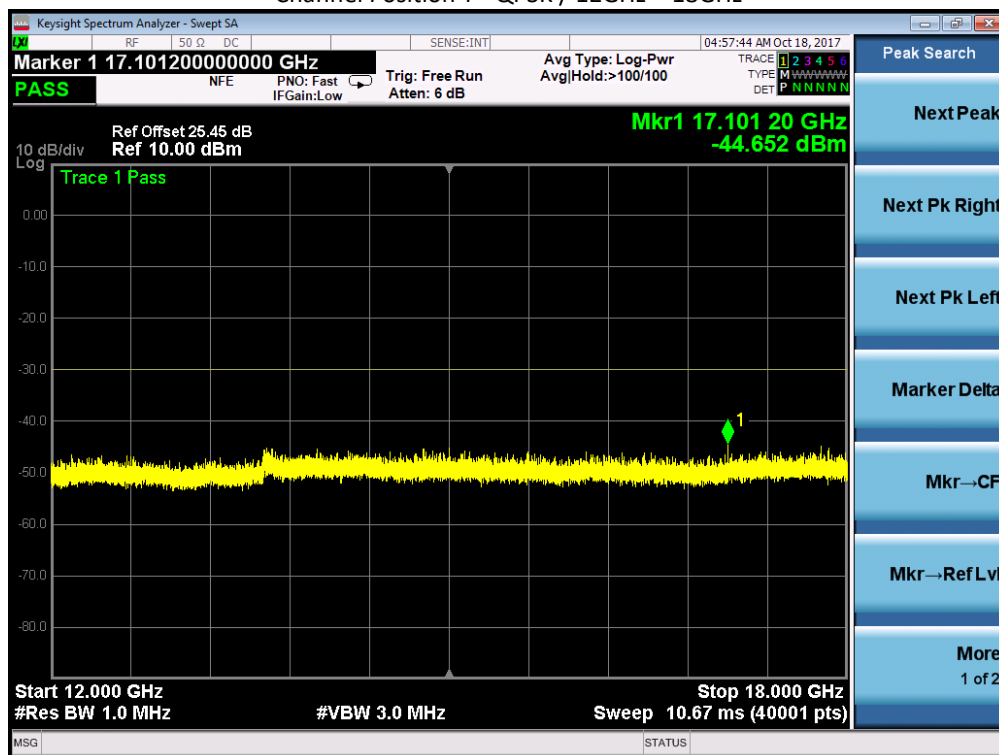
Channel Position T - QPSK / 1GHz – 5.15GHz



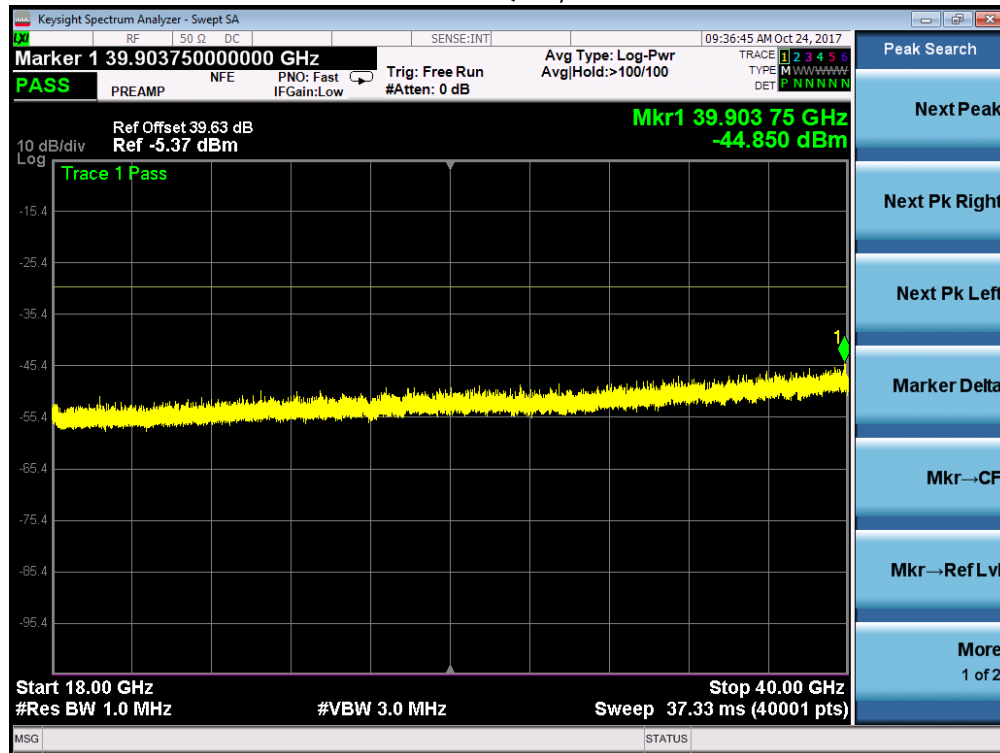
Channel Position T - QPSK / 5.35GHz – 12GHz



Channel Position T - QPSK / 12GHz – 18GHz



Channel Position T - QPSK / 18GHz – 40GHz

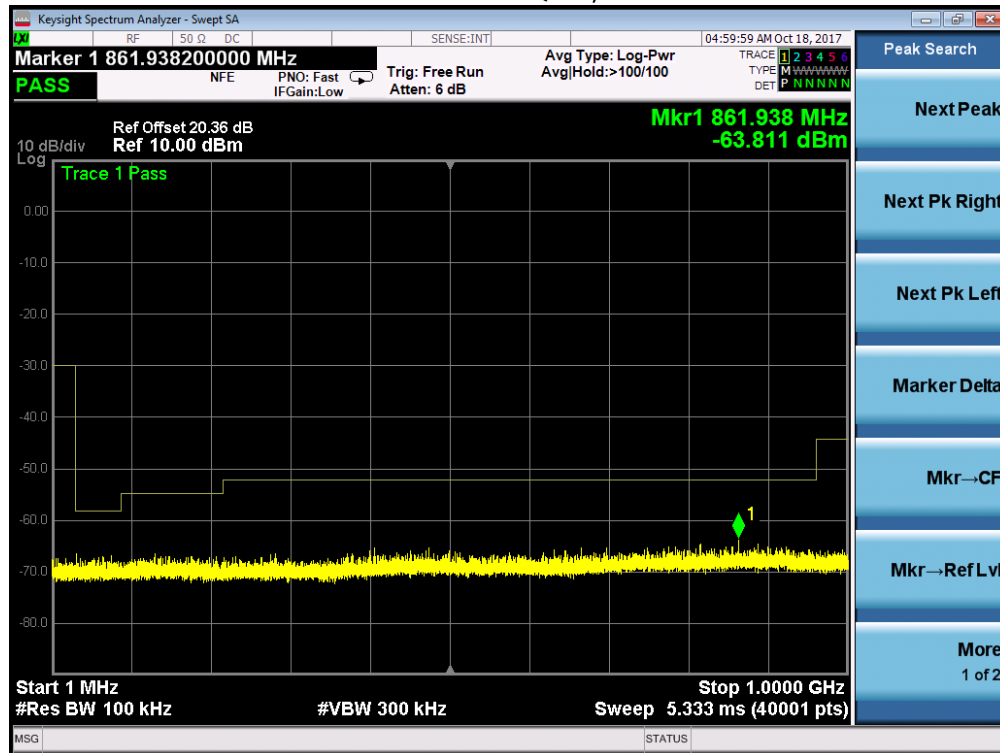


L-MIMO-MC 1 (2C)

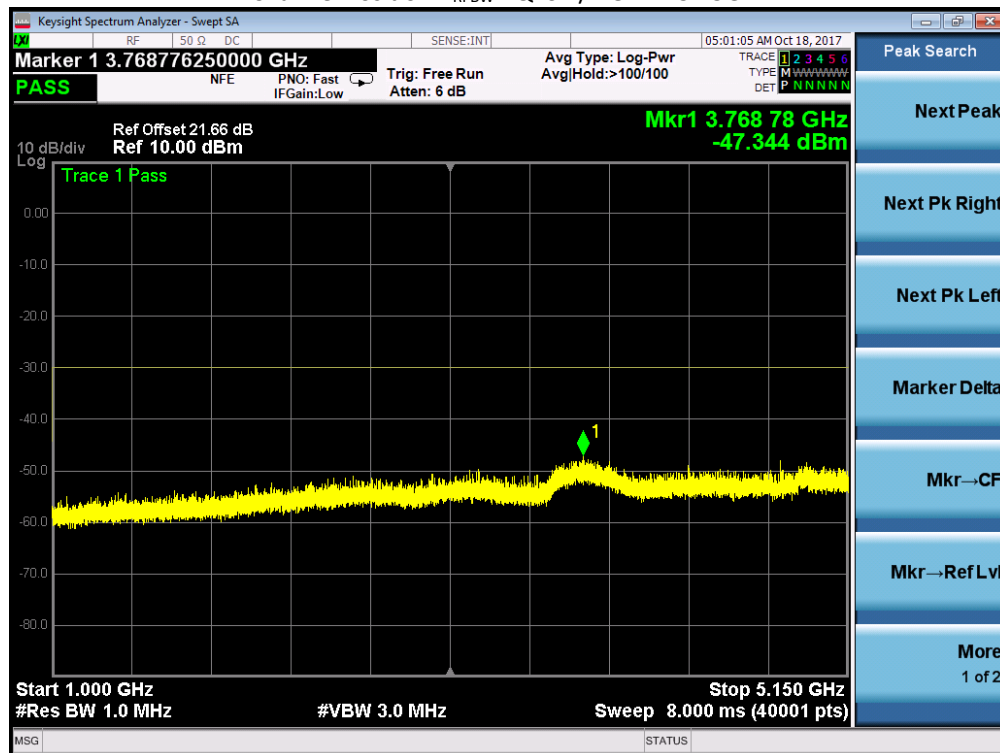
Maximum Output Power 20.5dBm per port:

Channel Position	Bandwidth (MHz)	Channel Frequency
B _{RFBW}	20.0 MHz	5180MHz + 5220MHz
M _{RFBW}	20.0 MHz	-
T _{RFBW}	20.0 MHz	5200MHz + 5240MHz

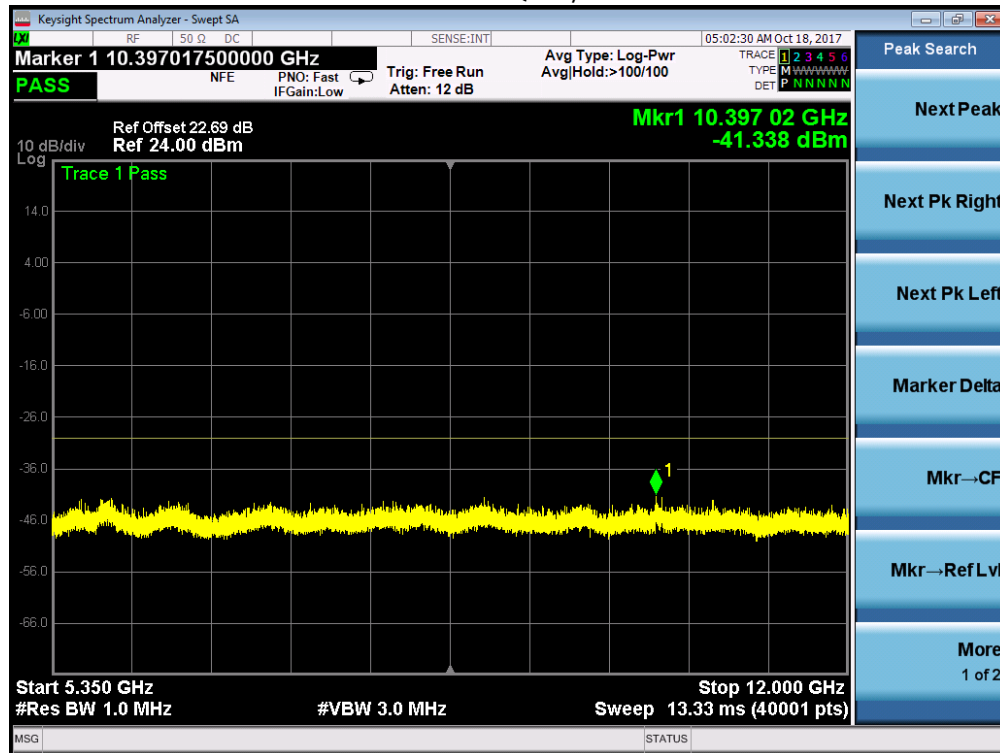
Channel Position B_{RFBW} - QPSK / 1MHz – 1GHz



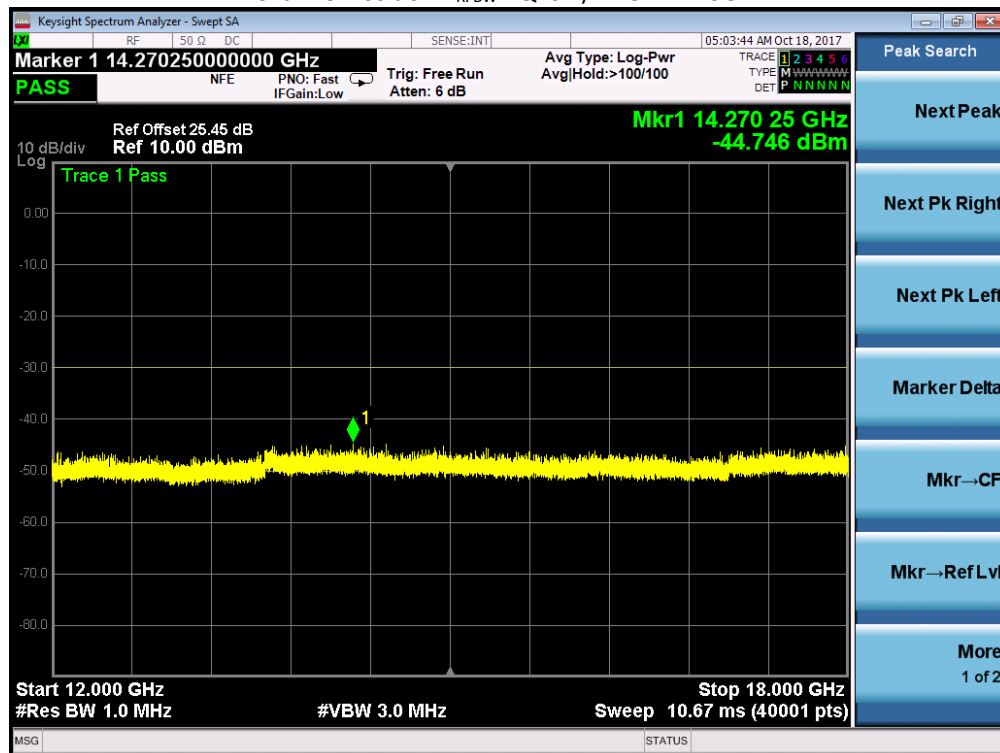
Channel Position B_{RFBW} - QPSK / 1GHz – 5.15GHz



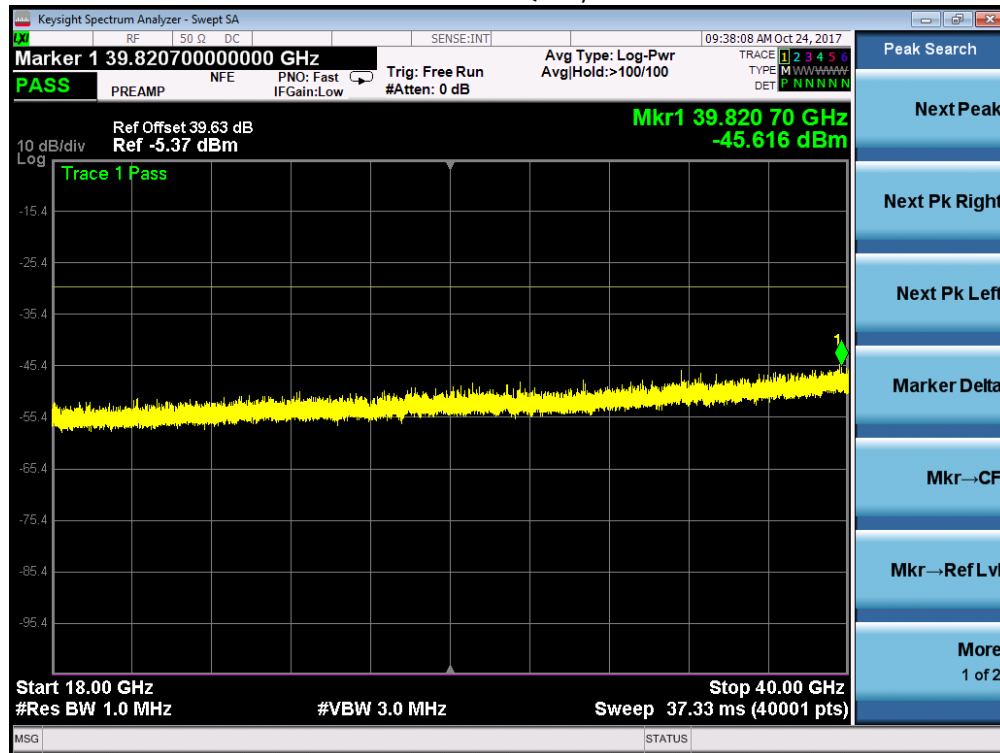
Channel Position B_{RFBW} - QPSK / 5.35GHz – 12GHz



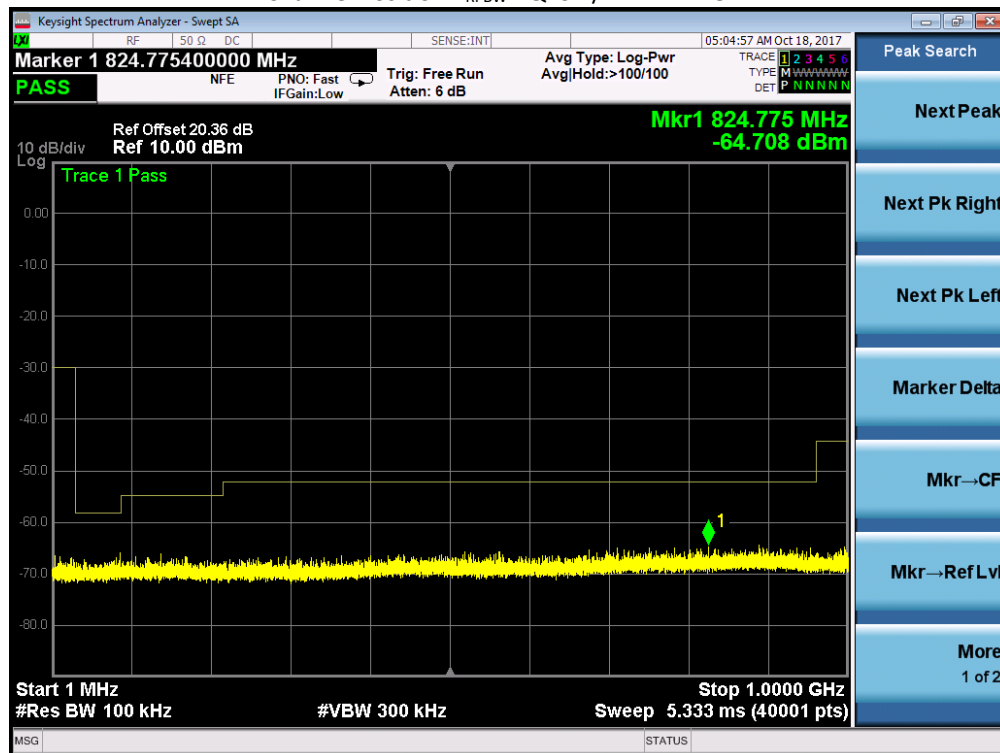
Channel Position B_{RFBW} - QPSK / 12GHz – 18GHz



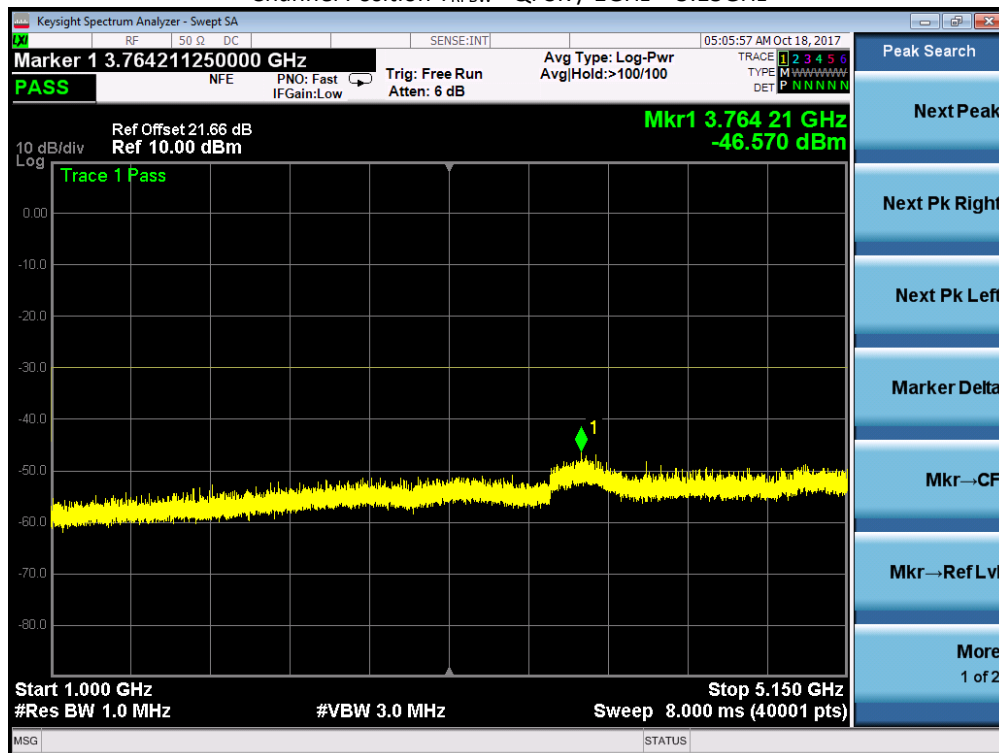
Channel Position B_{RFBW} - QPSK / 18GHz – 40GHz



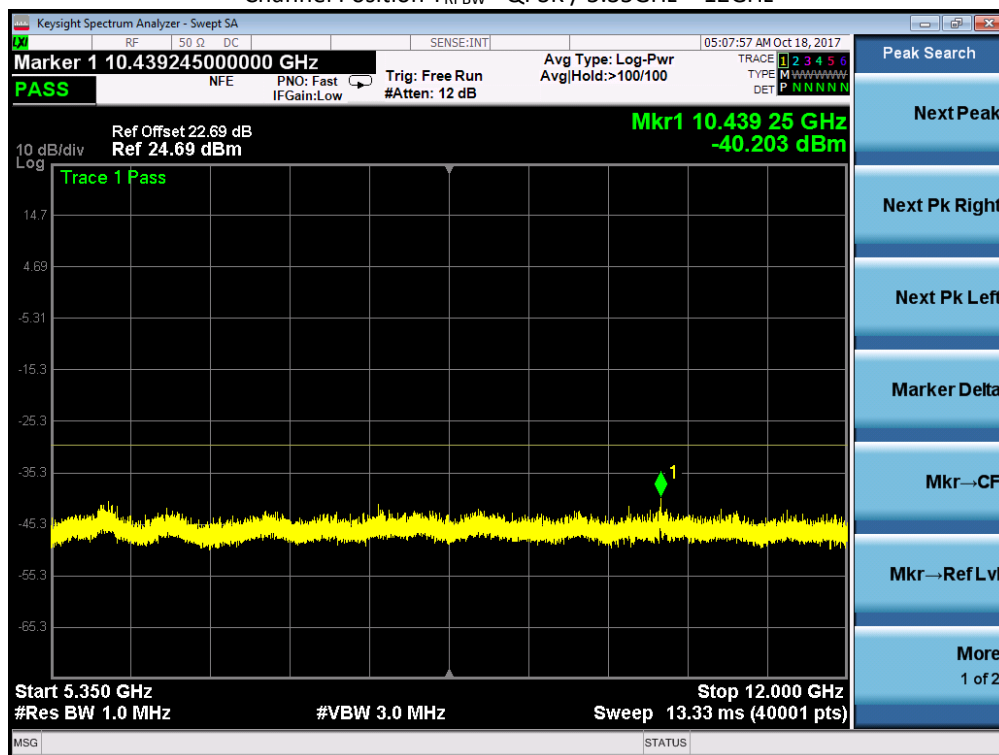
Channel Position T_{RFBW} - QPSK / 1MHz – 1GHz



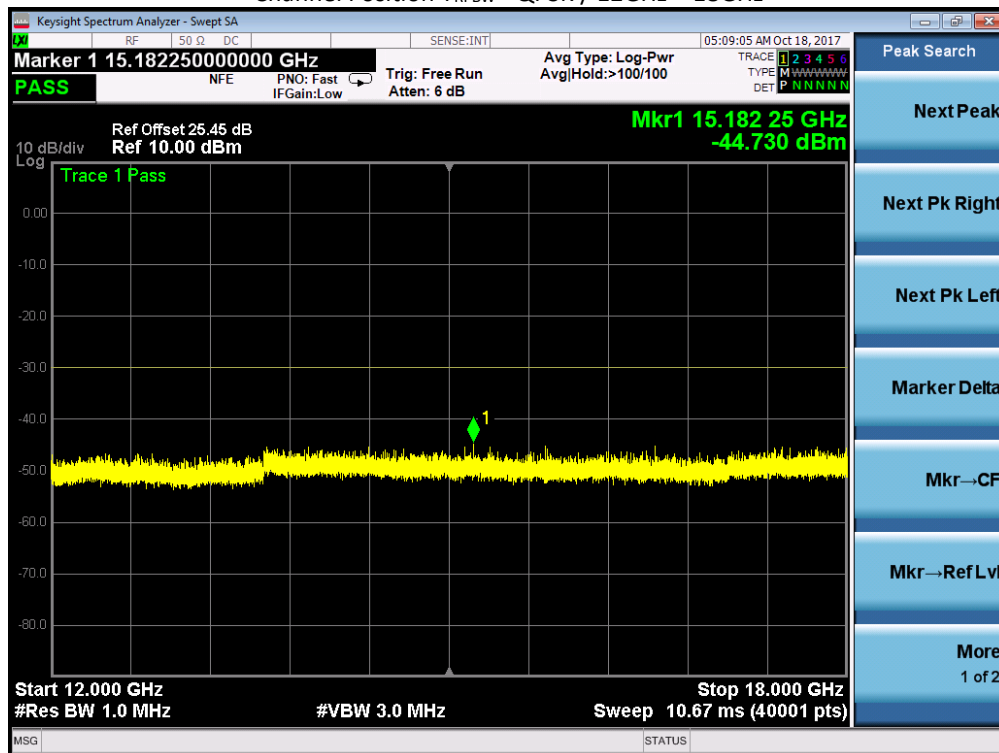
Channel Position T_{RFBW} - QPSK / 1GHz – 5.15GHz



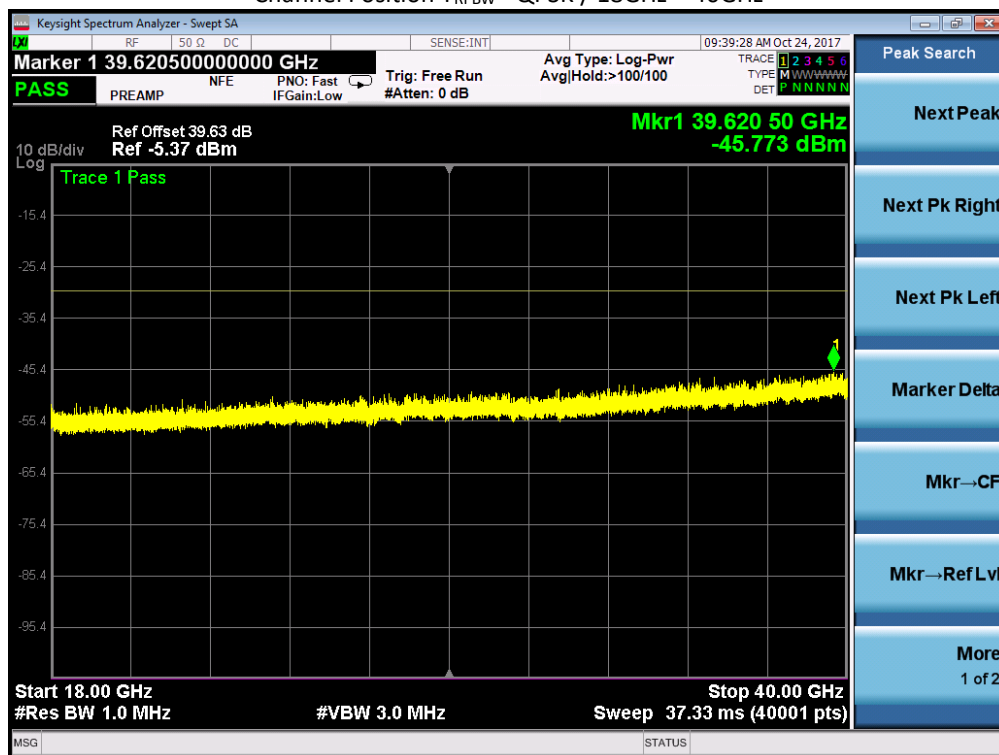
Channel Position T_{RFBW} - QPSK / 5.35GHz – 12GHz



Channel Position T_{RFBW} - QPSK / 12GHz – 18GHz



Channel Position T_{RFBW} - QPSK / 18GHz – 40GHz

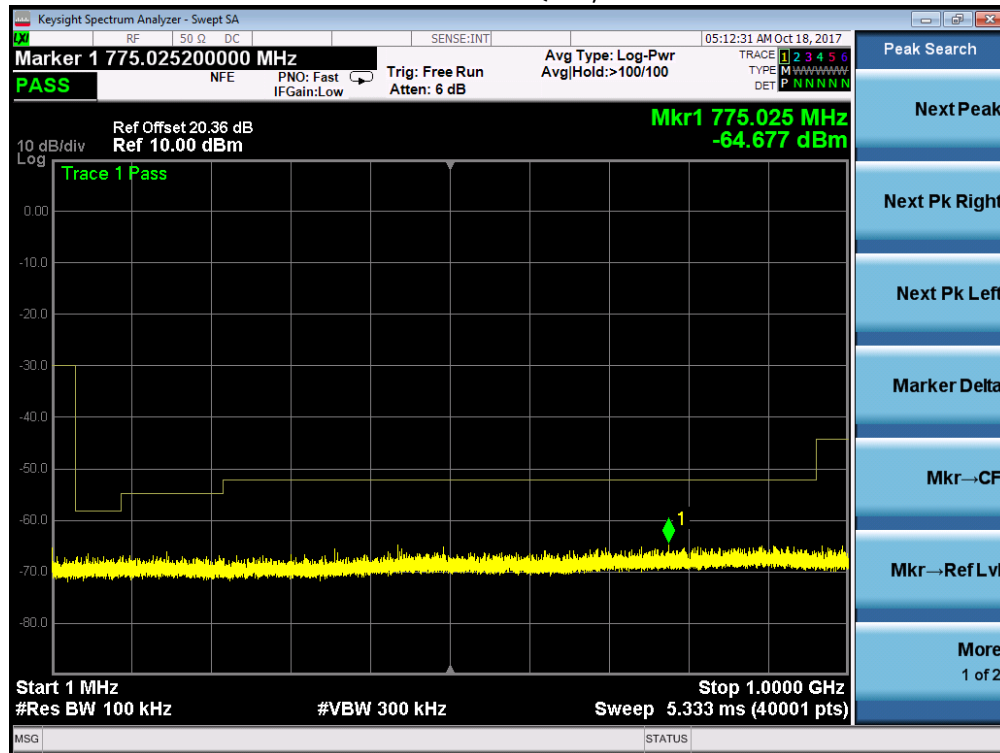


L-MIMO-MC 2 (3C)

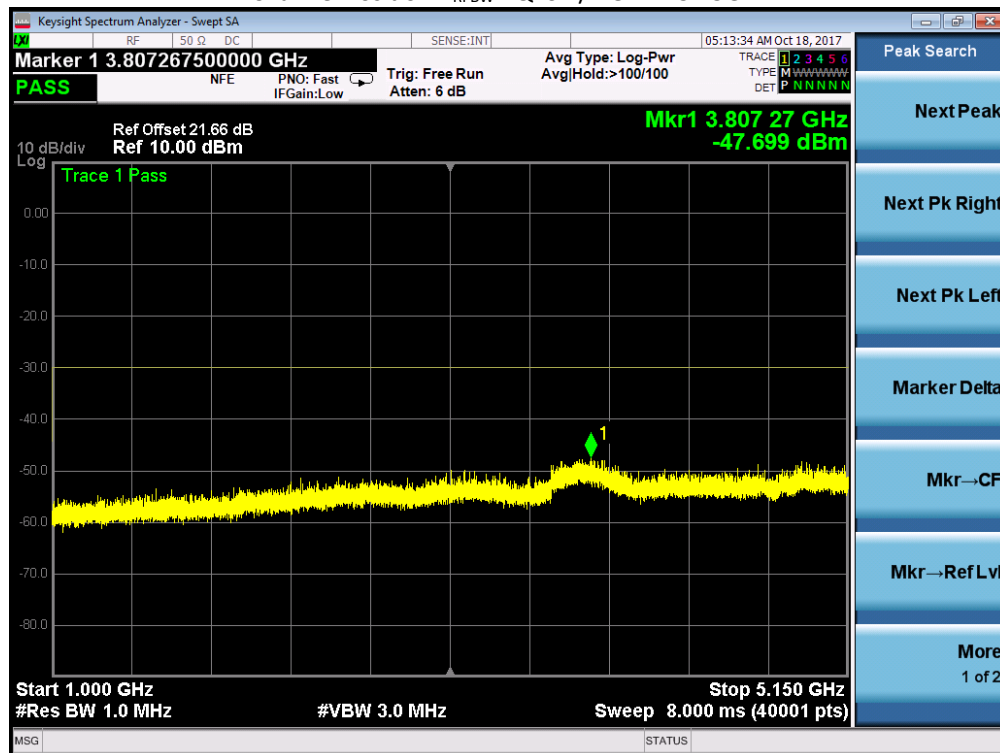
Maximum Output Power 20.5dBm per port:

Channel Position	Bandwidth (MHz)	Channel Frequency
B _{RFBW}	20.0 MHz	5180MHz + 5200MHz + 5220MHz
M _{RFBW}	20.0 MHz	-
T _{RFBW}	20.0 MHz	5200MHz + 5220MHz + 5240MHz

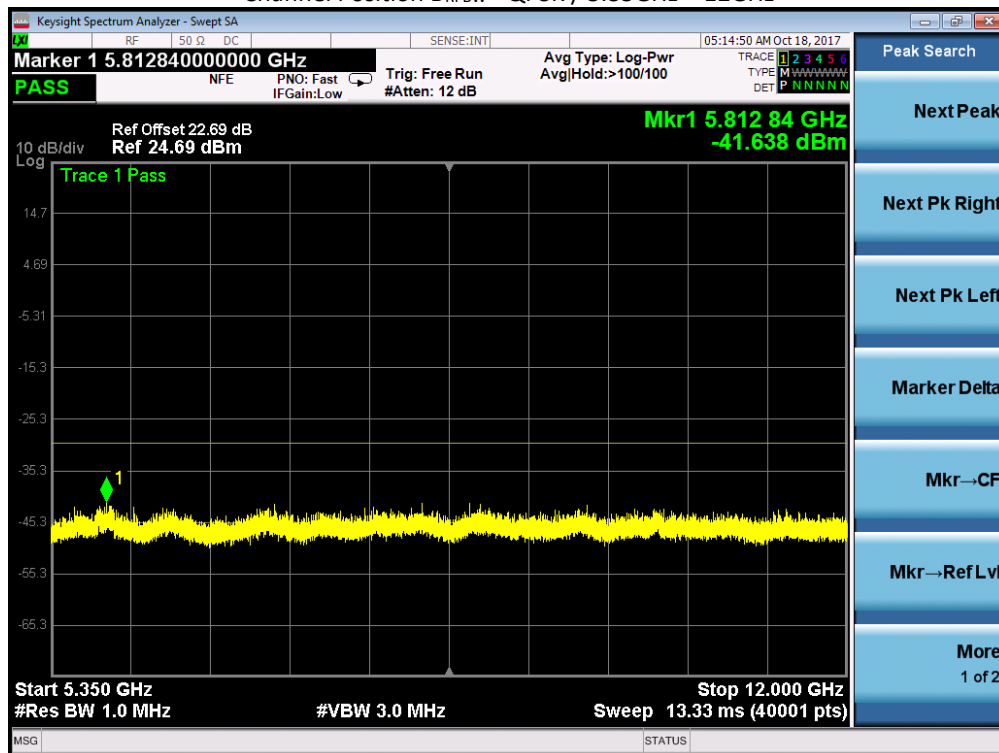
Channel Position B_{RFBW} - QPSK / 1MHz – 1GHz



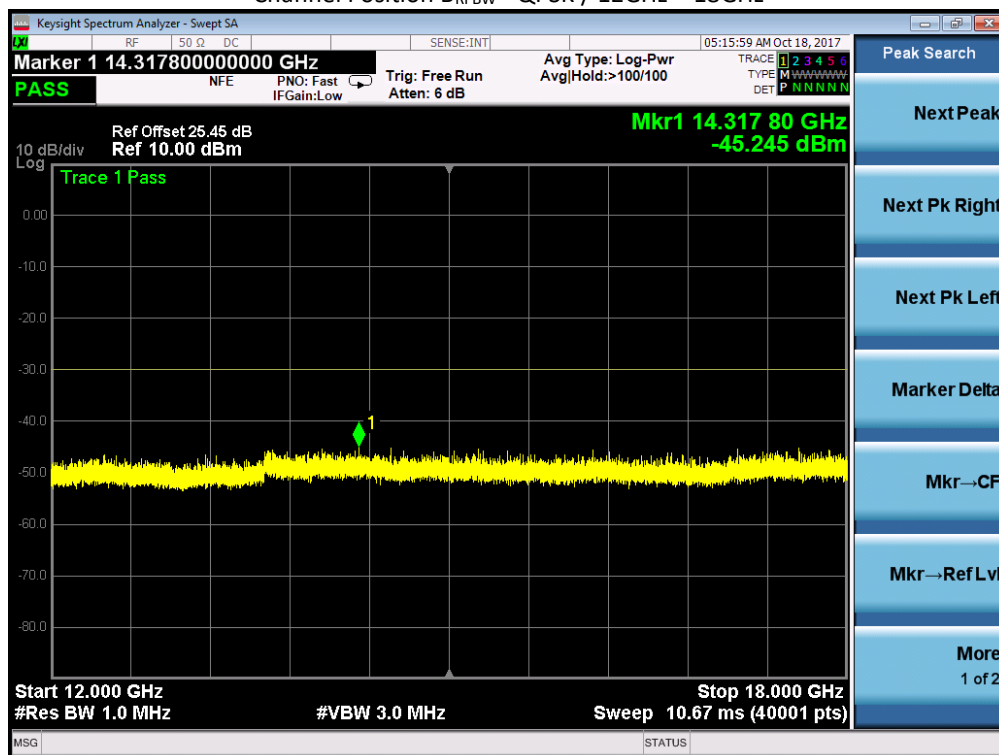
Channel Position B_{RFBW} - QPSK / 1GHz – 5.15GHz



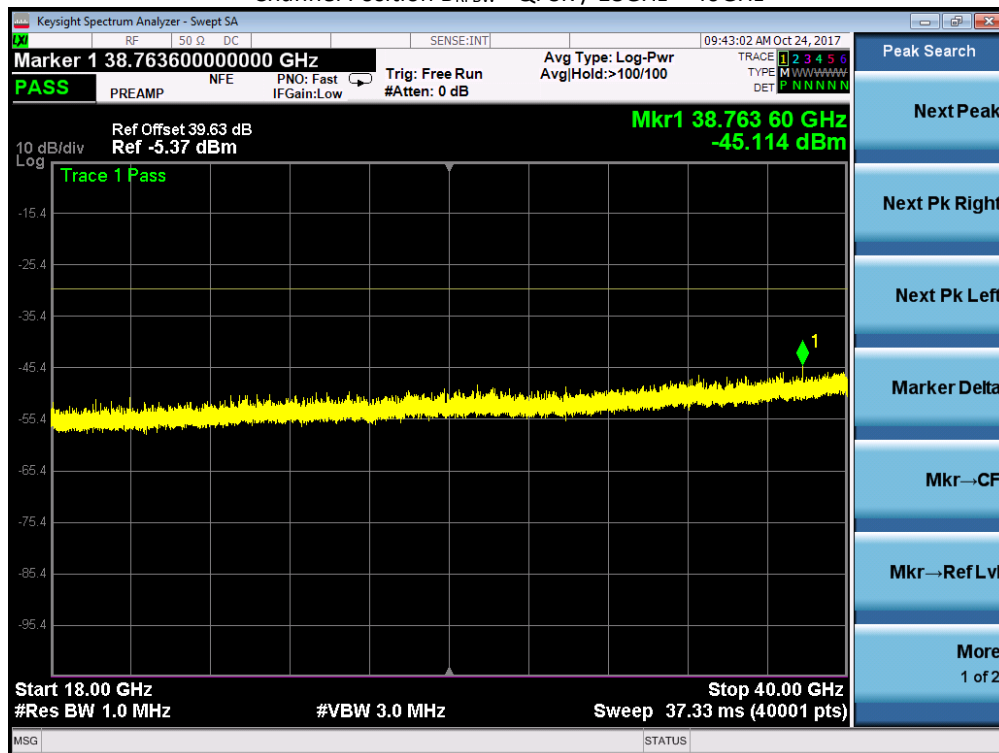
Channel Position B_{RFBW} - QPSK / 5.35GHz – 12GHz



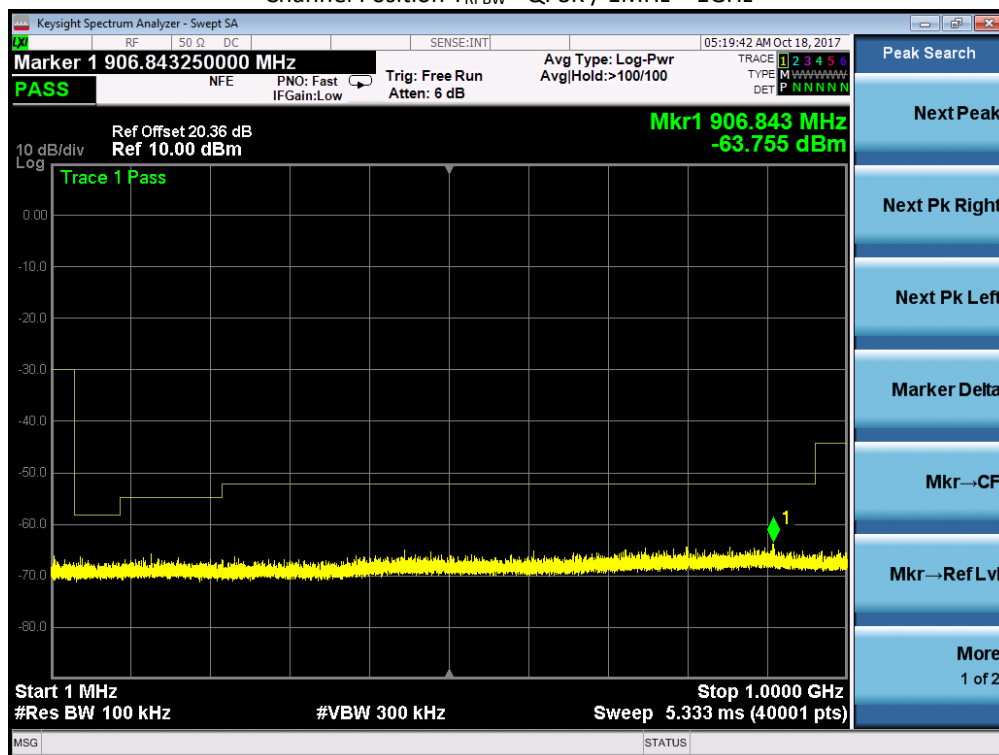
Channel Position B_{RFBW} - QPSK / 12GHz – 18GHz



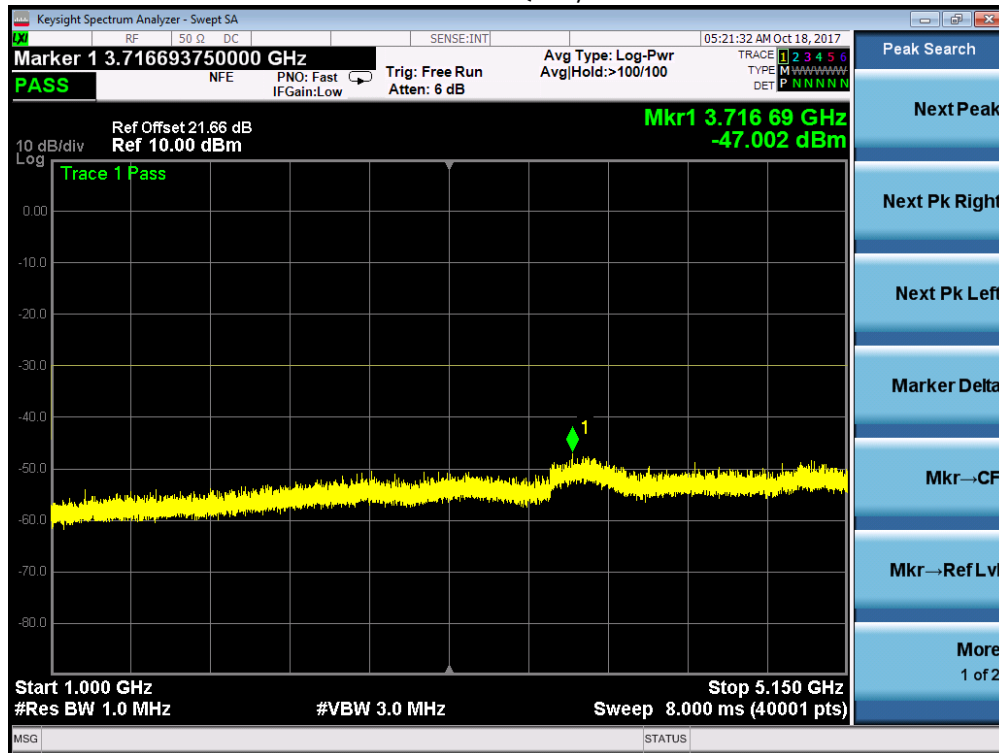
Channel Position B_{RFBW} - QPSK / 18GHz – 40GHz



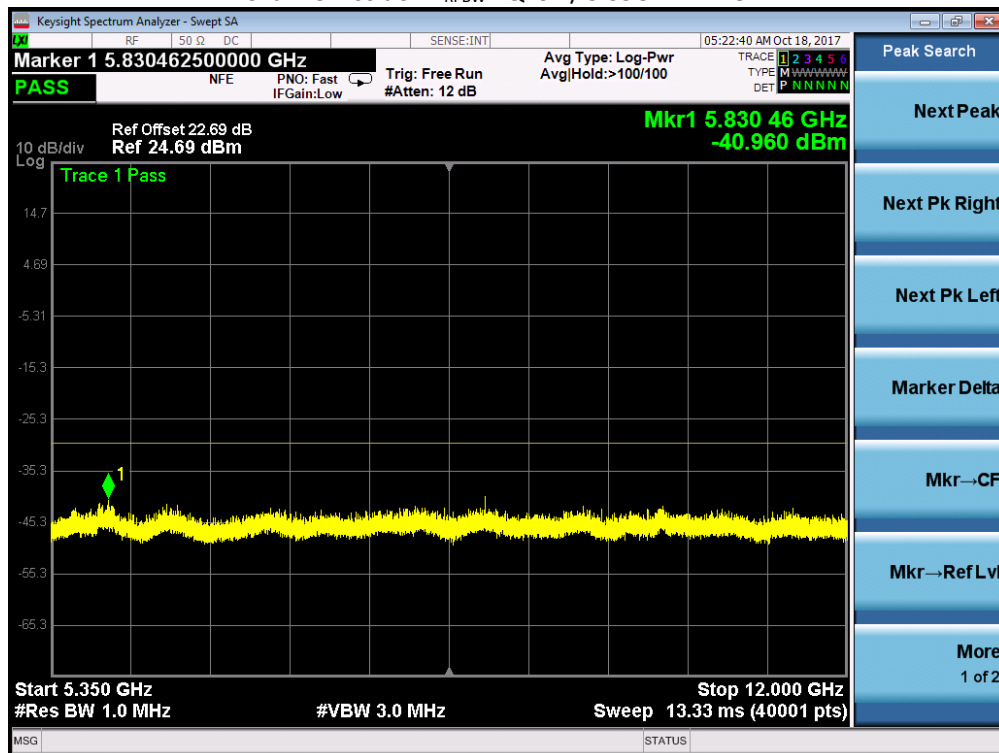
Channel Position T_{RFBW} - QPSK / 1MHz – 1GHz



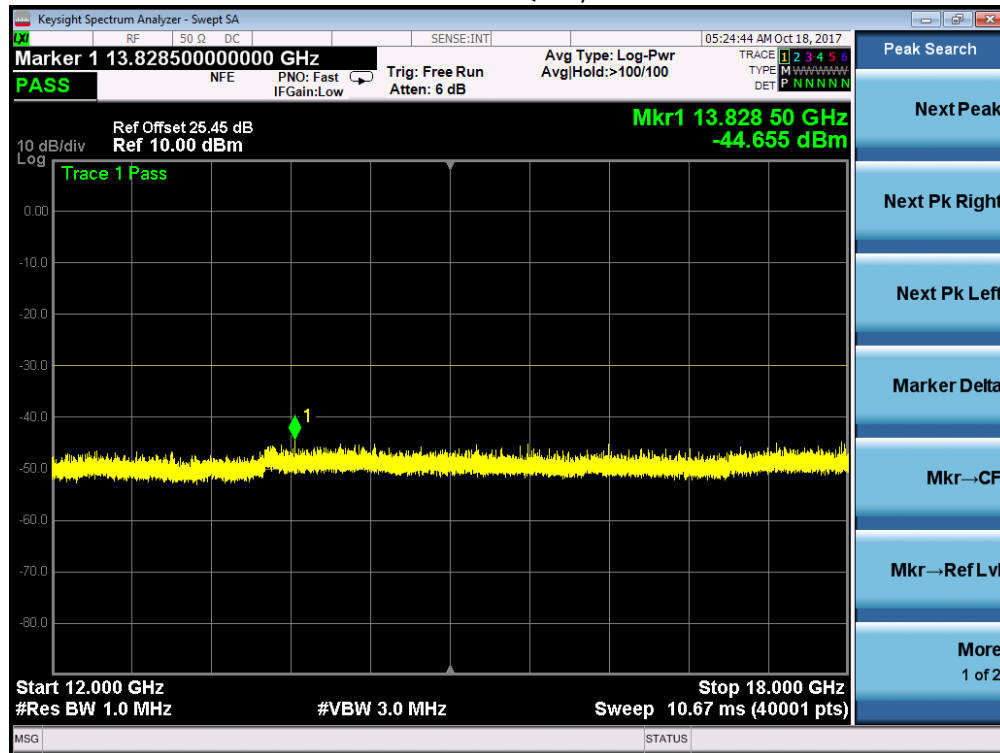
Channel Position T_{RFBW} - QPSK / 1GHz – 5.15GHz



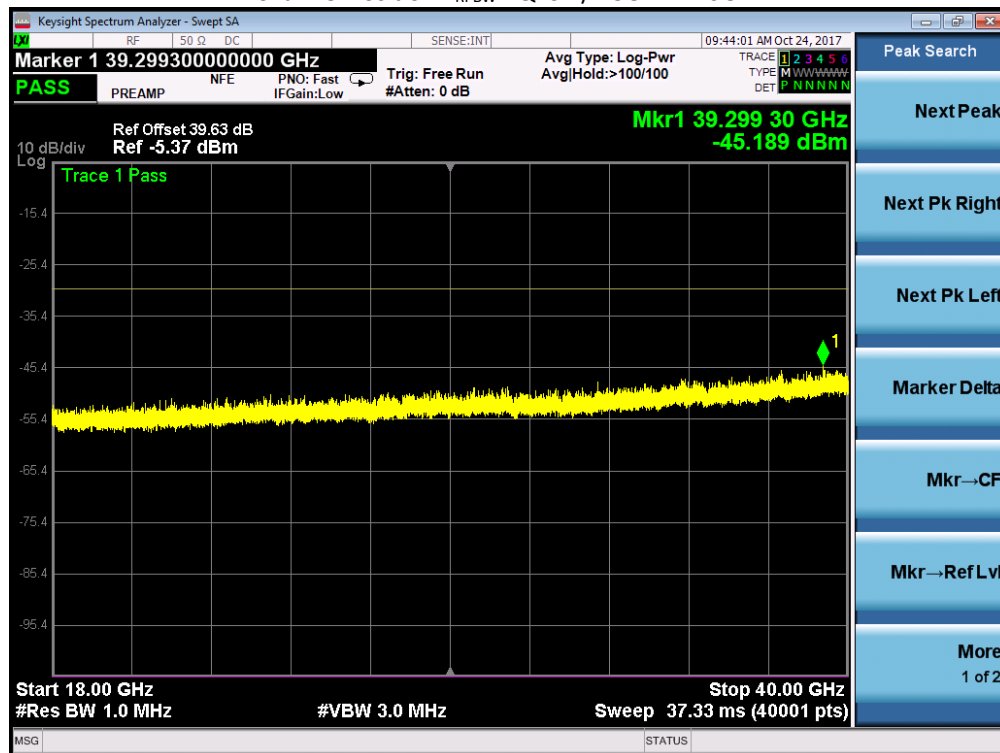
Channel Position T_{RFBW} - QPSK / 5.35GHz – 12GHz



Channel Position T_{RFBW} - QPSK / 12GHz – 18GHz



Channel Position T_{RFBW} - QPSK / 18GHz – 40GHz



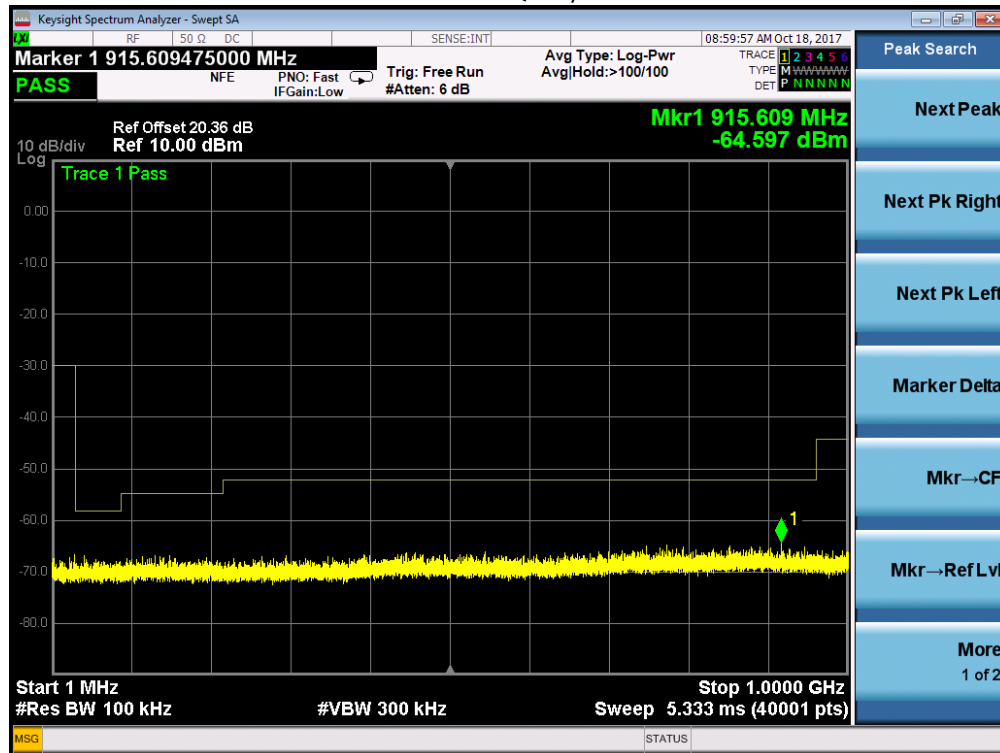
Configuration A2

L-MIMO-SC

Maximum Output Power 20.5dBm per port:

Channel Position	Bandwidth (MHz)	Channel Frequency
B	20.0 MHz	5745MHz
M	20.0 MHz	5785MHz
T	20.0 MHz	5825MHz

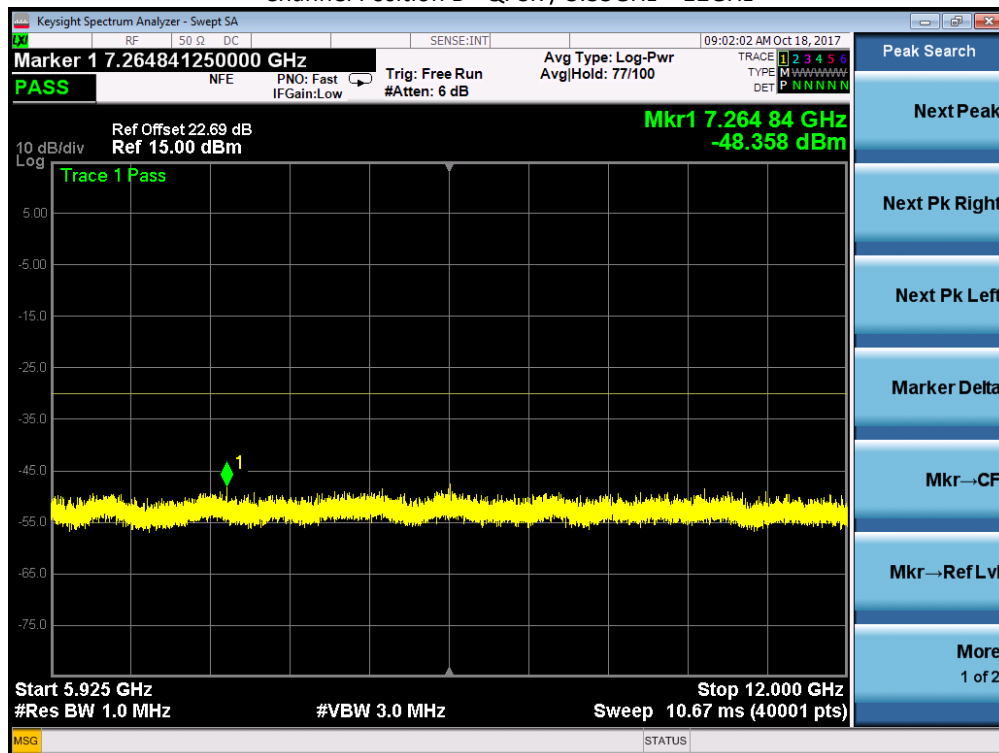
Channel Position B - QPSK / 1MHz – 1GHz



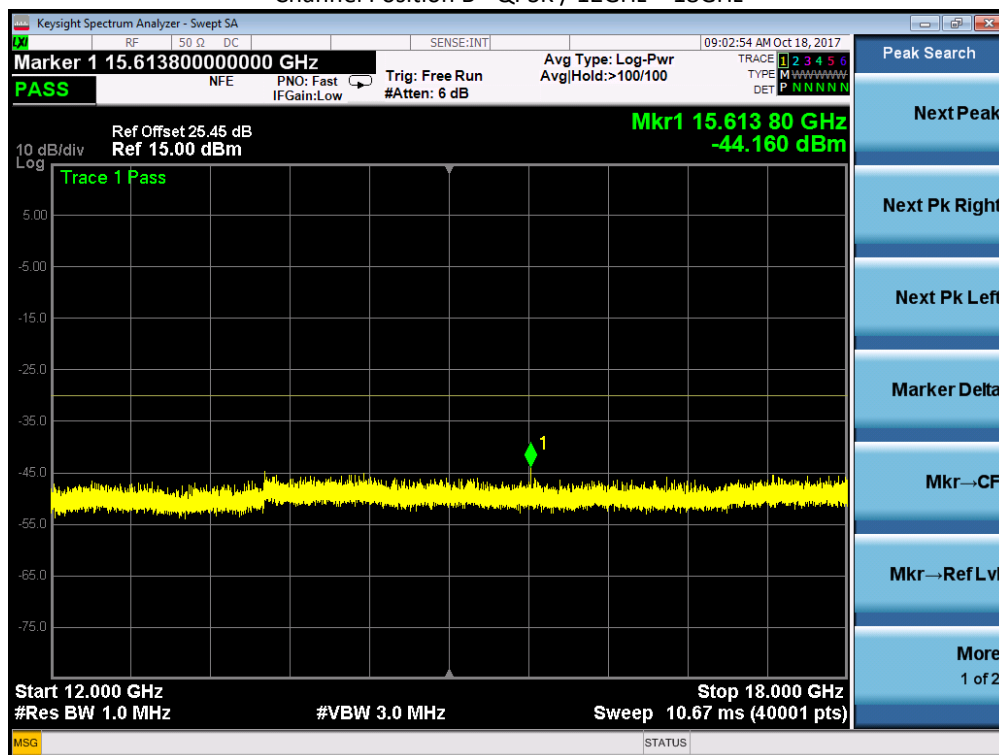
Channel Position B - QPSK / 1GHz – 5.15GHz



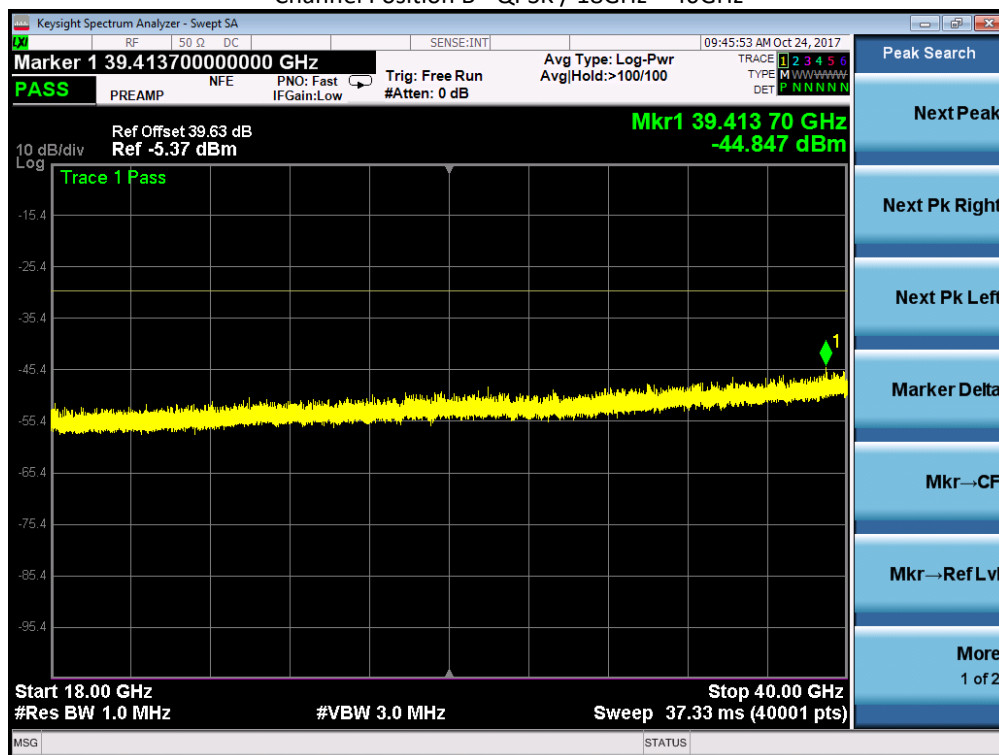
Channel Position B - QPSK / 5.35GHz – 12GHz



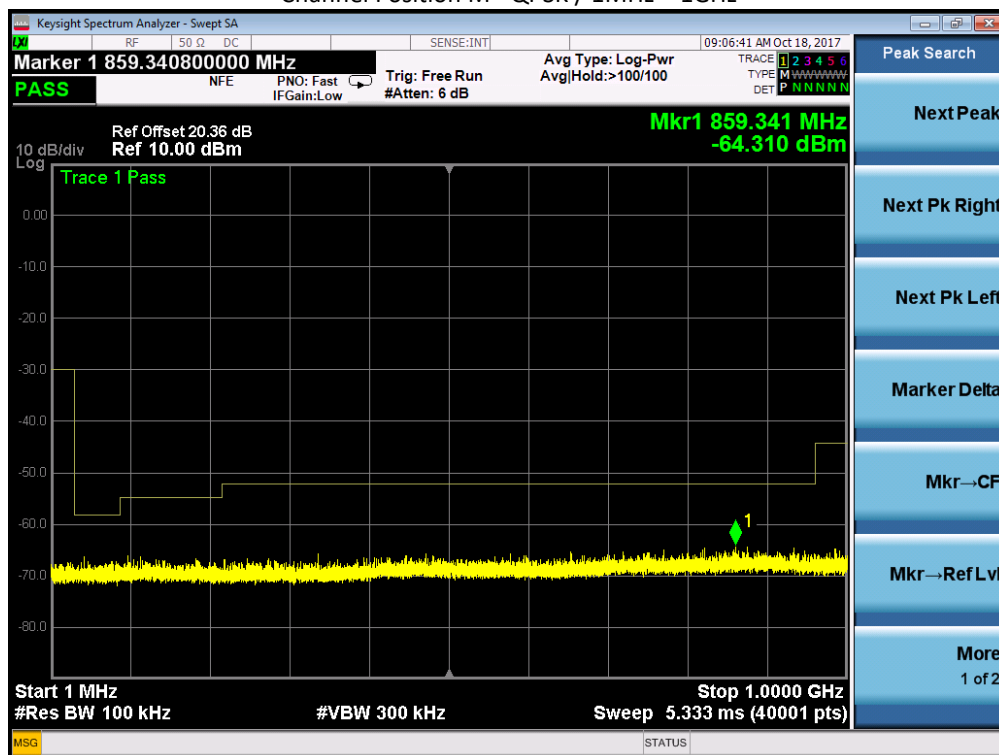
Channel Position B - QPSK / 12GHz – 18GHz



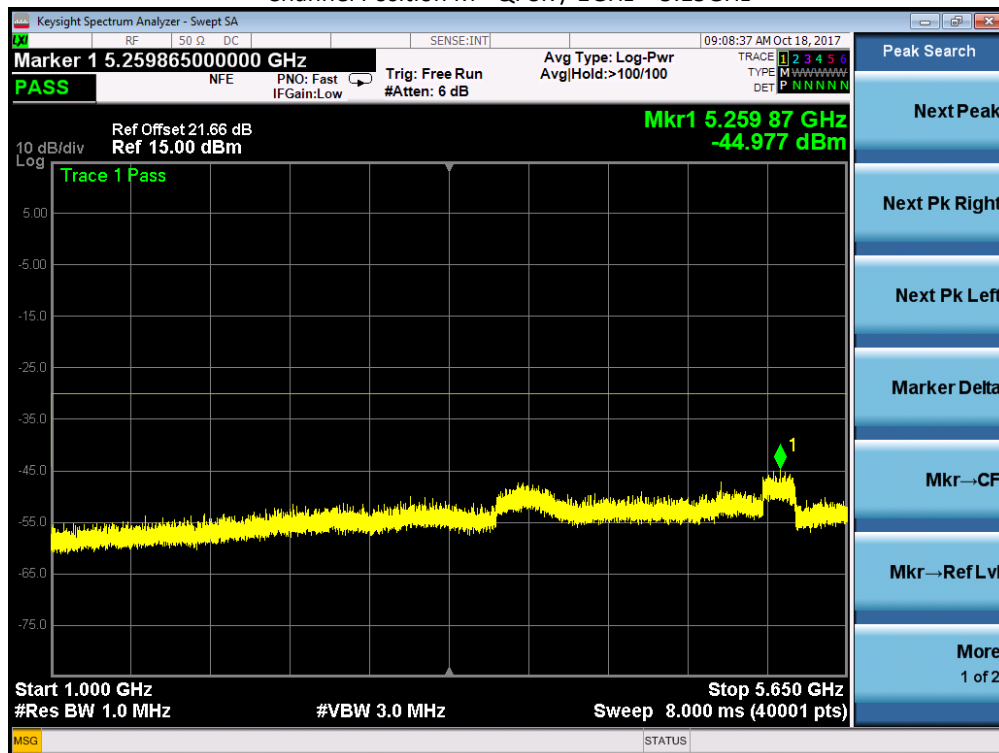
Channel Position B - QPSK / 18GHz – 40GHz



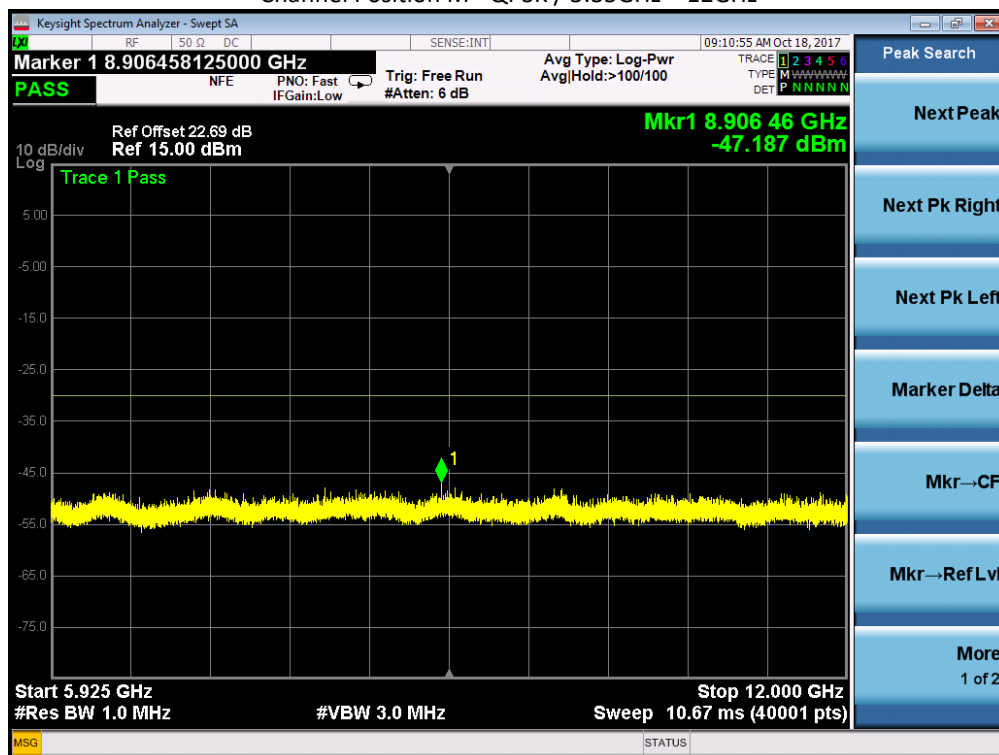
Channel Position M - QPSK / 1MHz – 1GHz



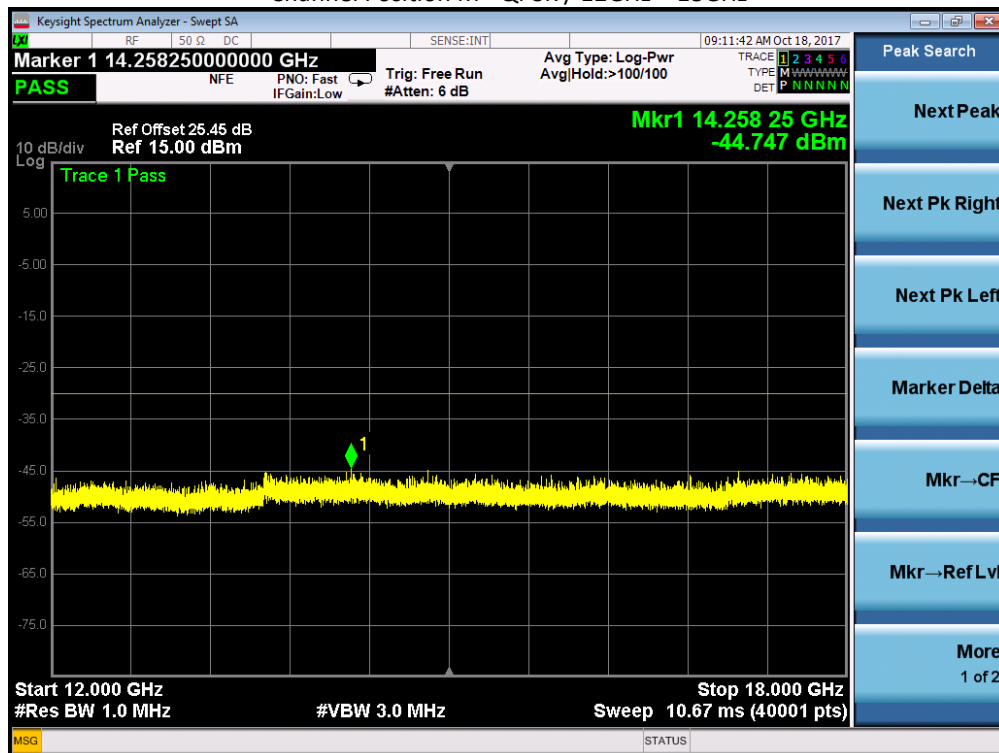
Channel Position M - QPSK / 1GHz – 5.15GHz



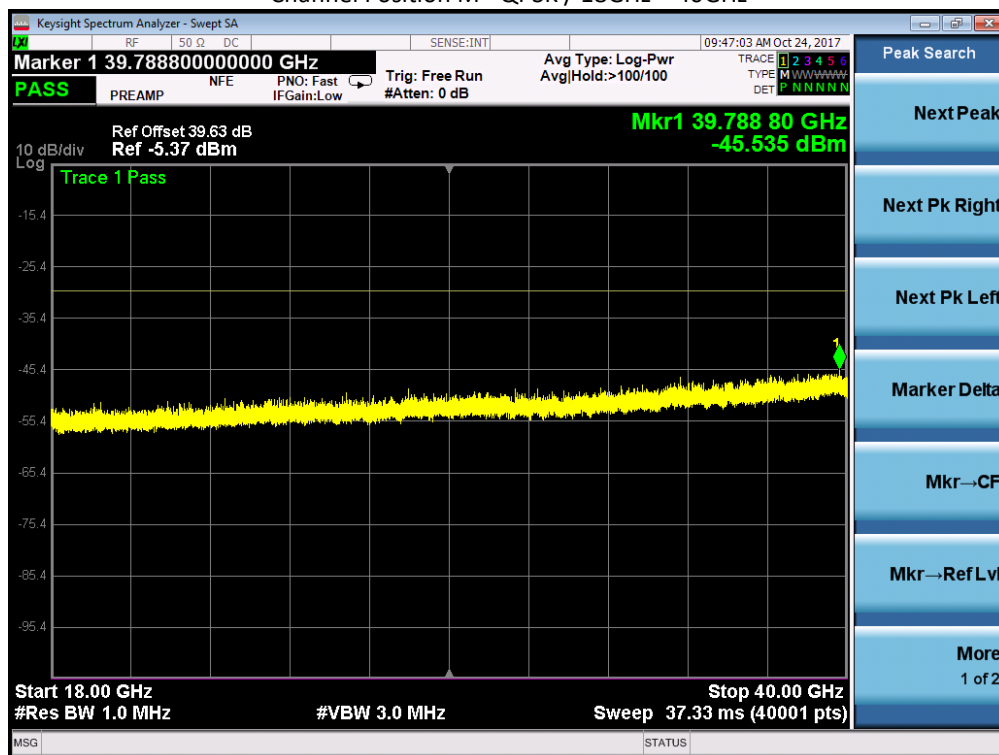
Channel Position M - QPSK / 5.35GHz – 12GHz



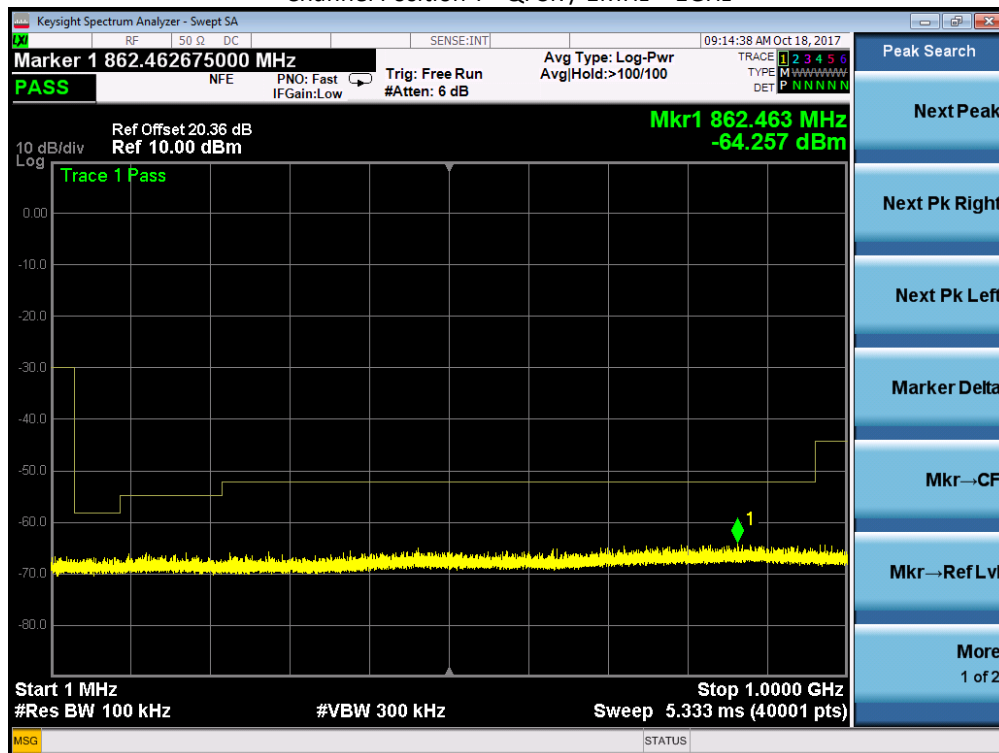
Channel Position M - QPSK / 12GHz – 18GHz



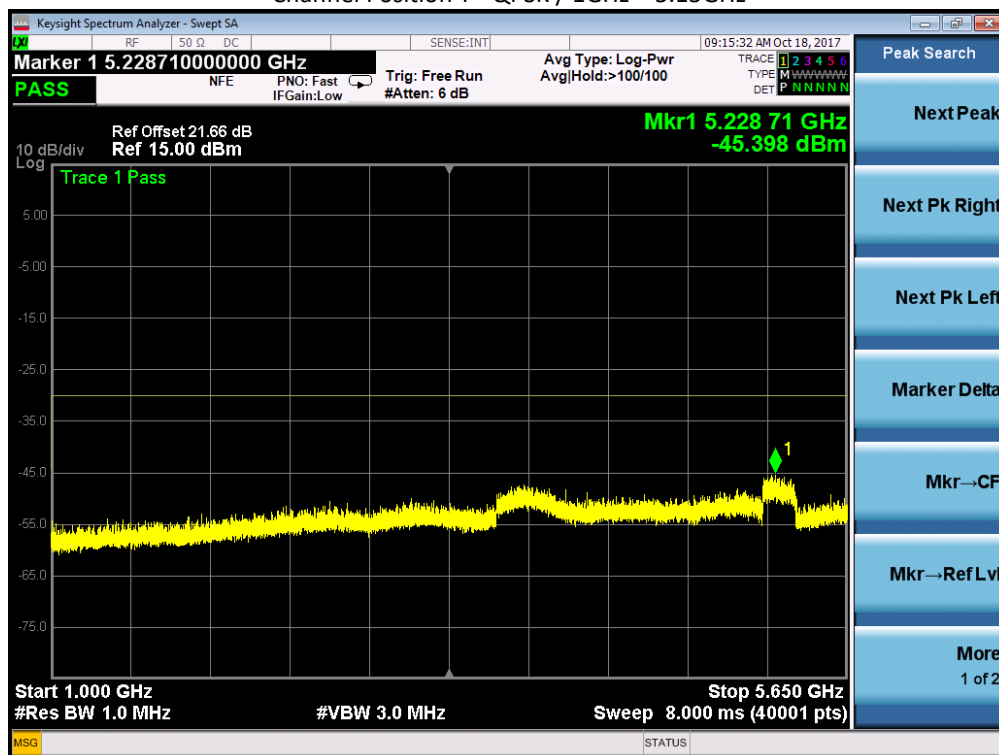
Channel Position M - QPSK / 18GHz – 40GHz



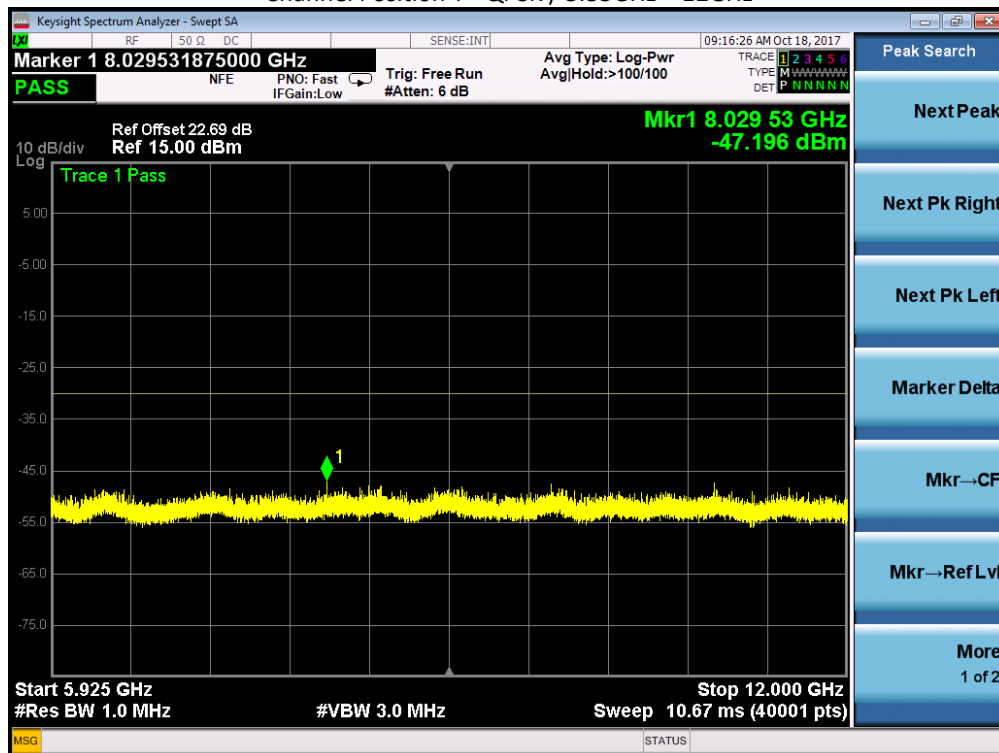
Channel Position T - QPSK / 1MHz – 1GHz



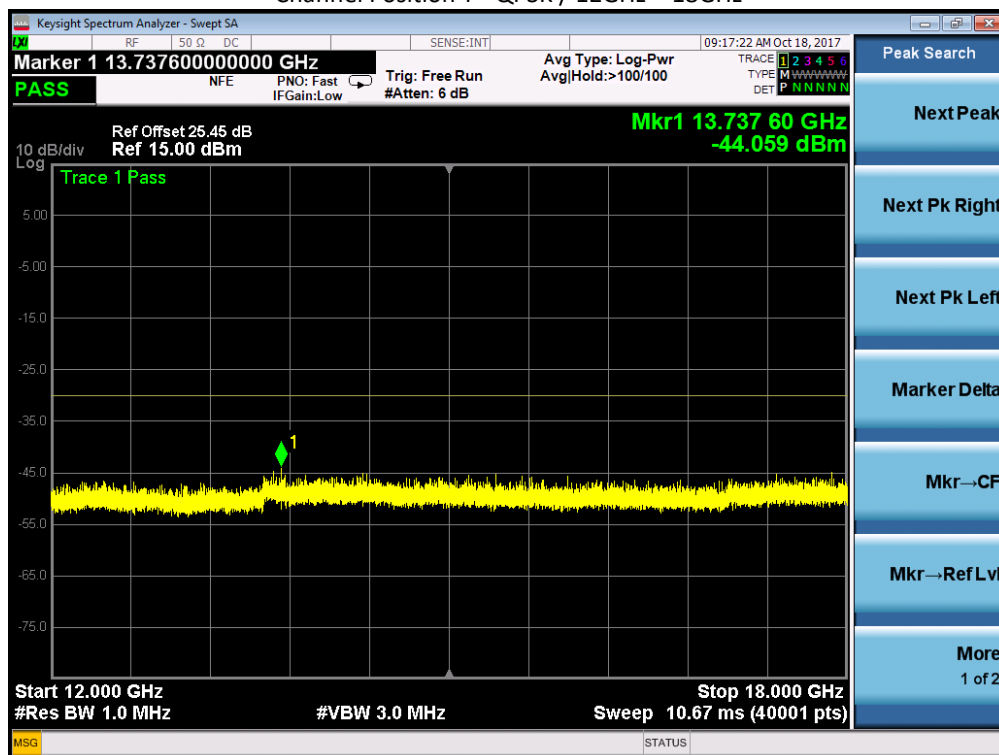
Channel Position T - QPSK / 1GHz – 5.15GHz



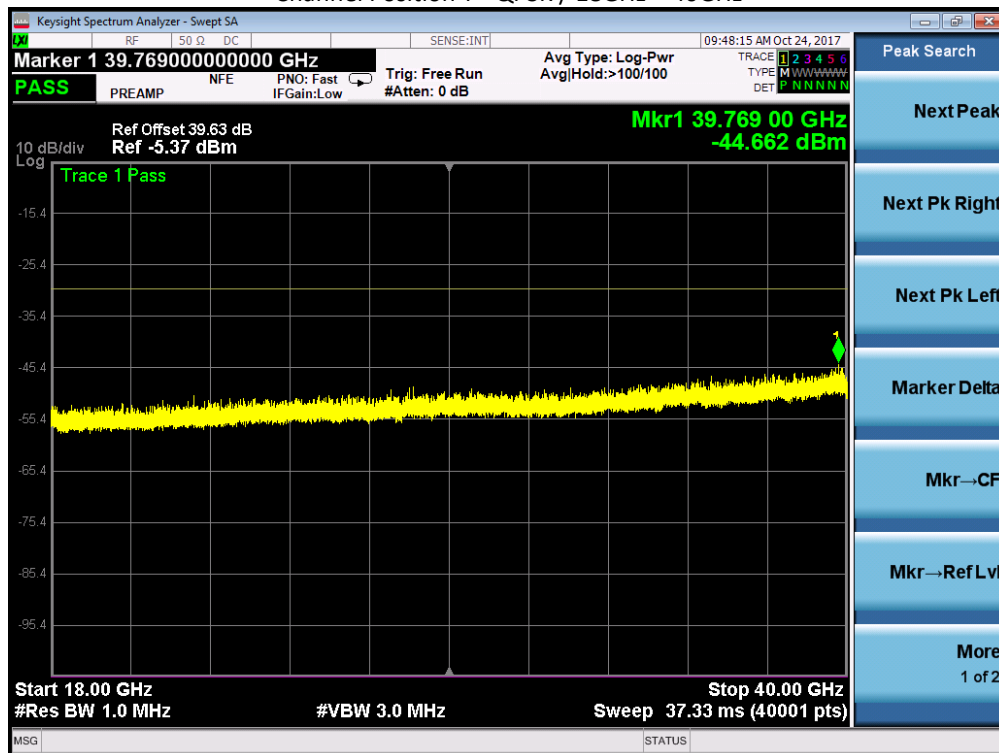
Channel Position T - QPSK / 5.35GHz – 12GHz



Channel Position T - QPSK / 12GHz – 18GHz



Channel Position T - QPSK / 18GHz – 40GHz

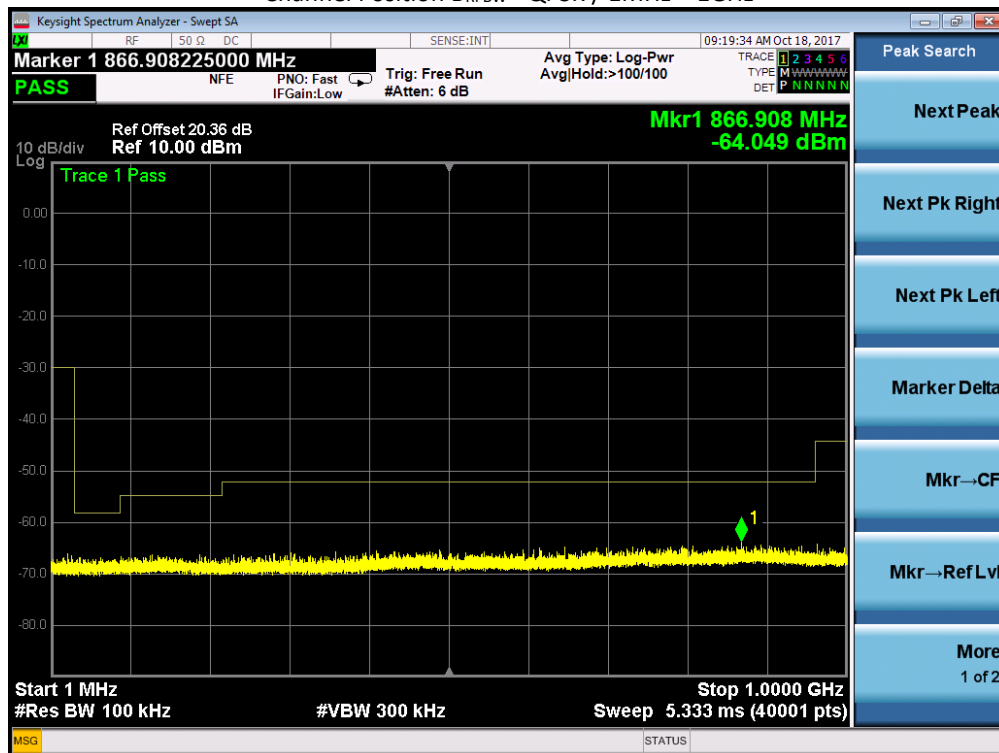


L-MIMO-MC 1 (2C)

Maximum Output Power 20.5dBm per port:

Channel Position	Bandwidth (MHz)	Channel Frequency
B _{RFBW}	20.0 MHz	5745MHz + 5785MHz
M _{RFBW}	20.0 MHz	5765MHz + 5805MHz
T _{RFBW}	20.0 MHz	5785MHz + 5825MHz

Channel Position B_{RFBW} - QPSK / 1MHz – 1GHz



Channel Position B_{RFBW} - QPSK / 1GHz – 5.15GHz

