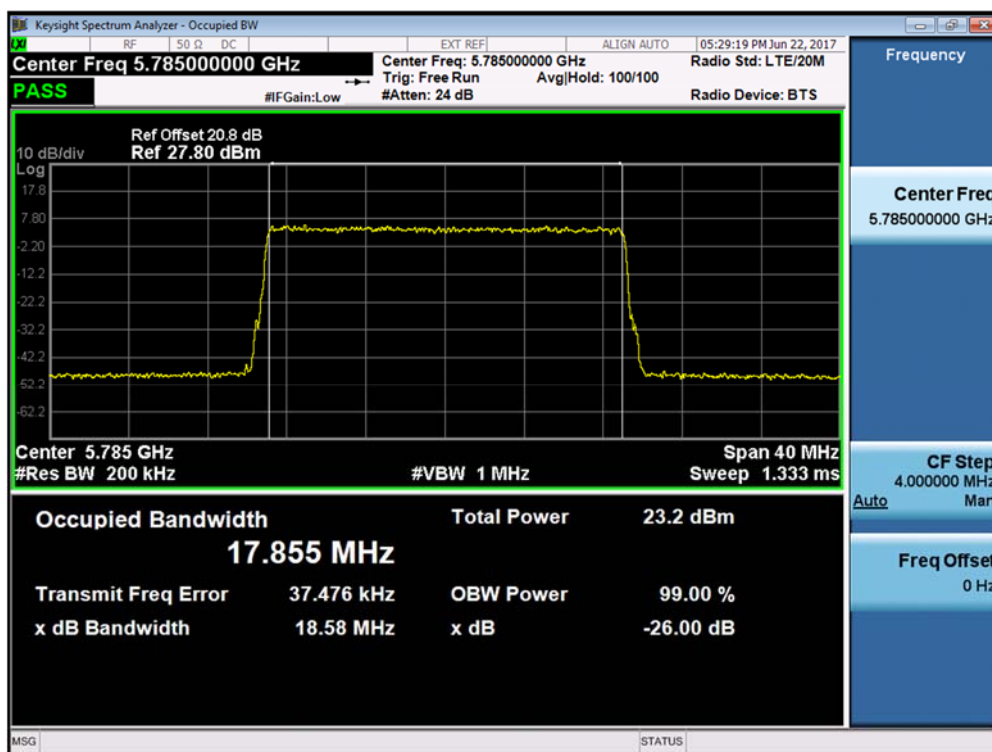


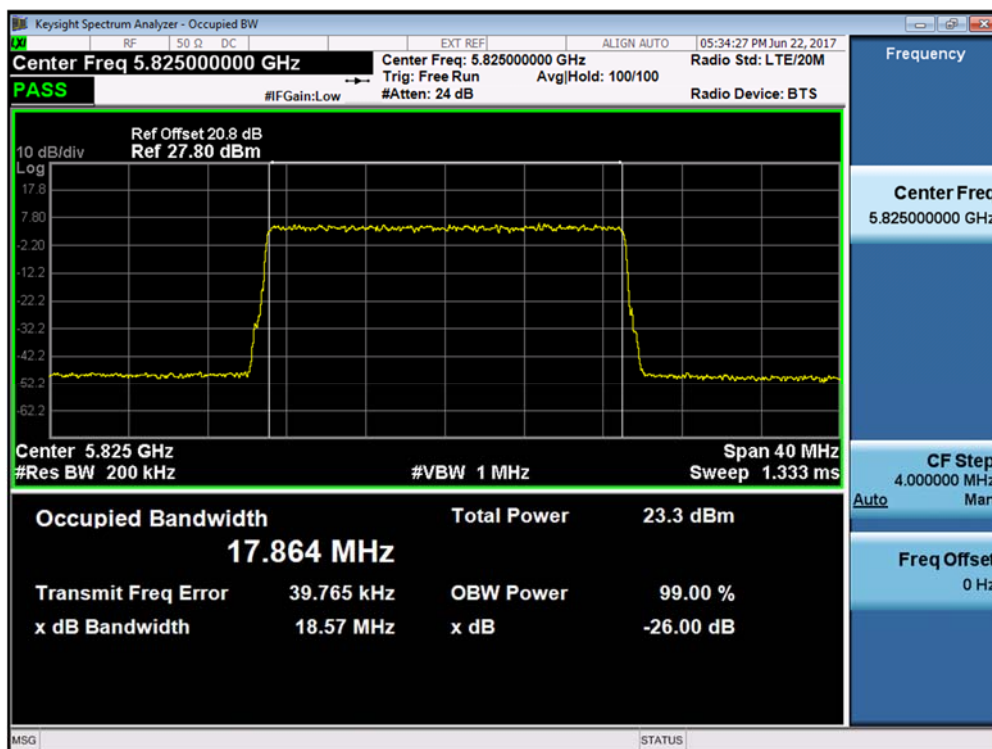


Product Service

### Channel Position M - 256QAM / Bandwidth 20.0 MHz



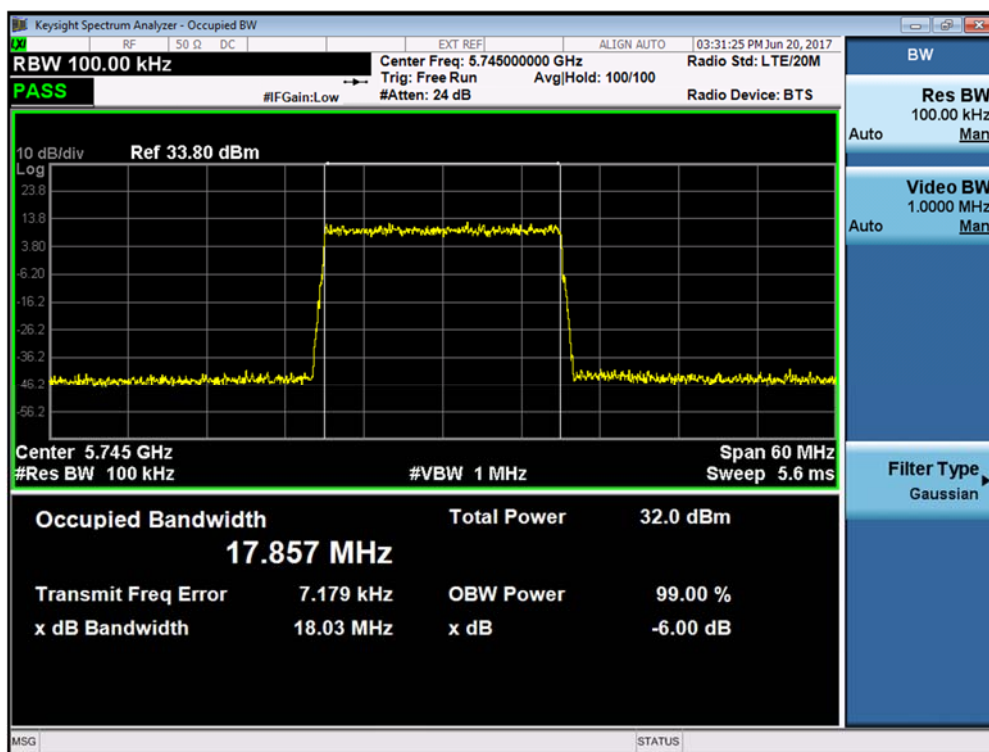
### Channel Position T - 256QAM / Bandwidth 20.0 MHz



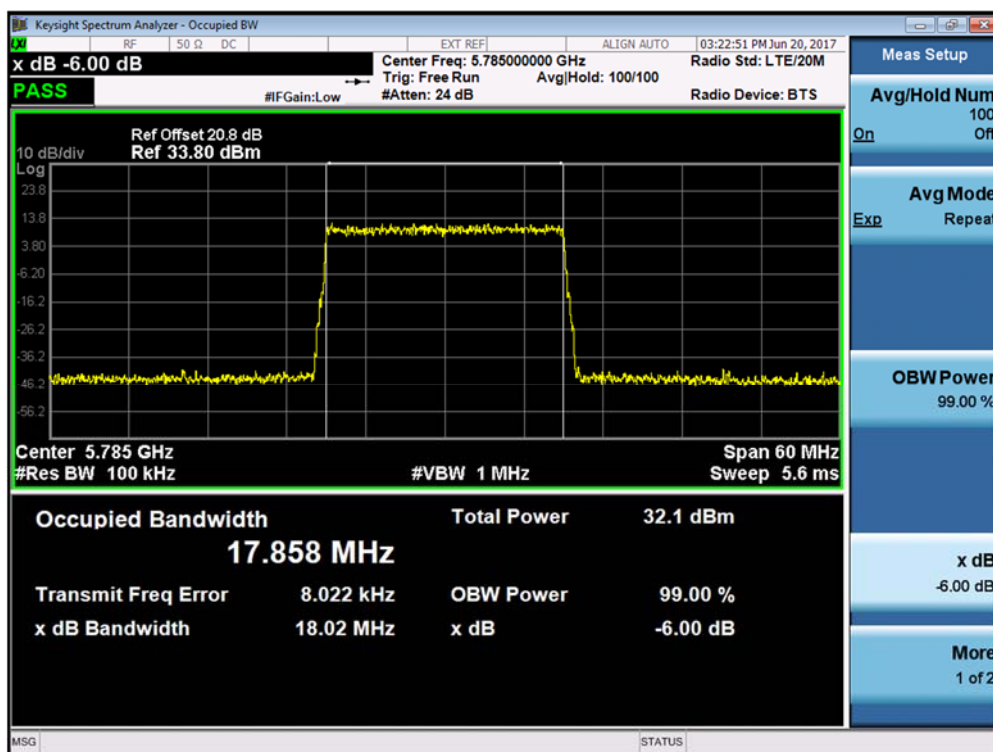


Product Service

### Channel Position B - QPSK / -6dB Bandwidth 20.0 MHz



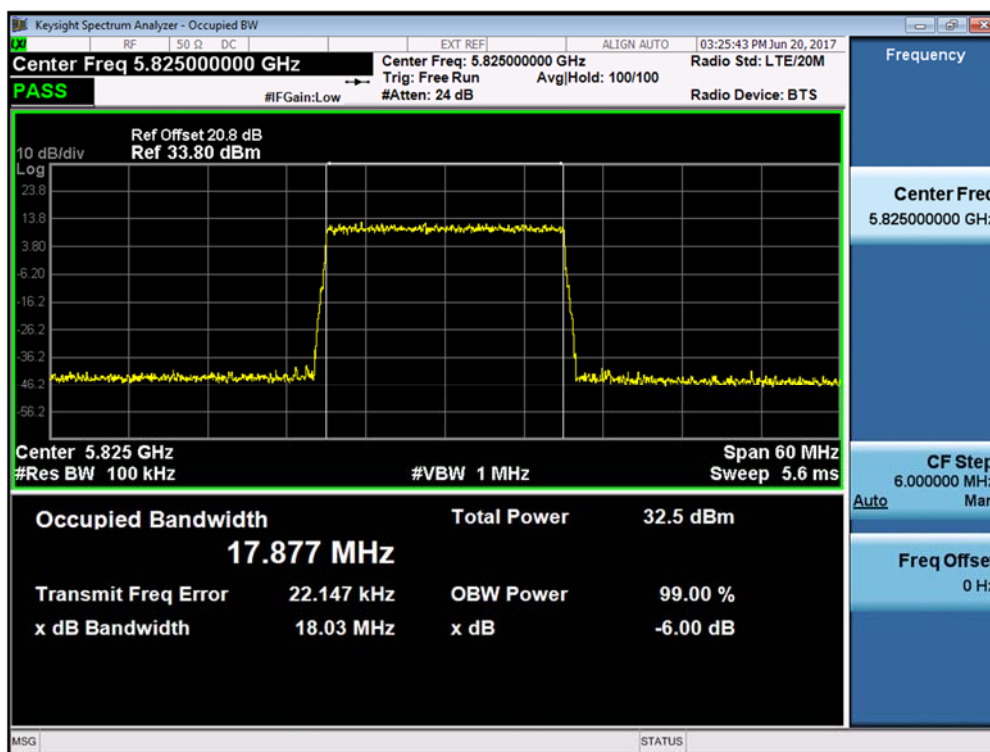
### Channel Position M - QPSK / -6dB Bandwidth 20.0 MHz



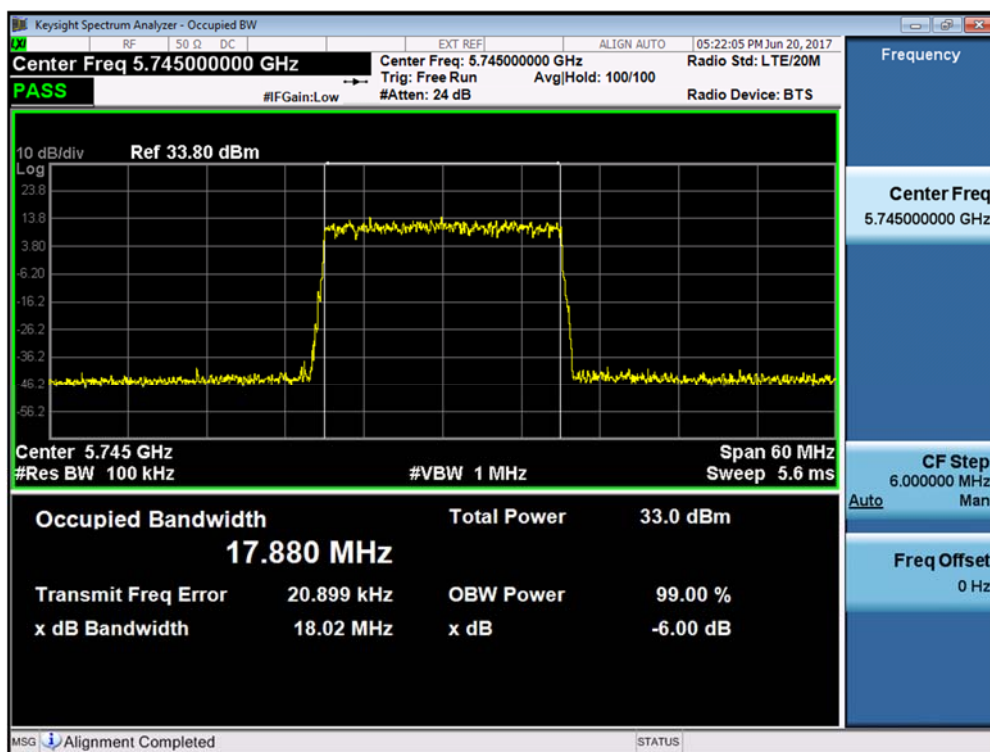


Product Service

### Channel Position T - QPSK / -6dB Bandwidth 20.0 MHz



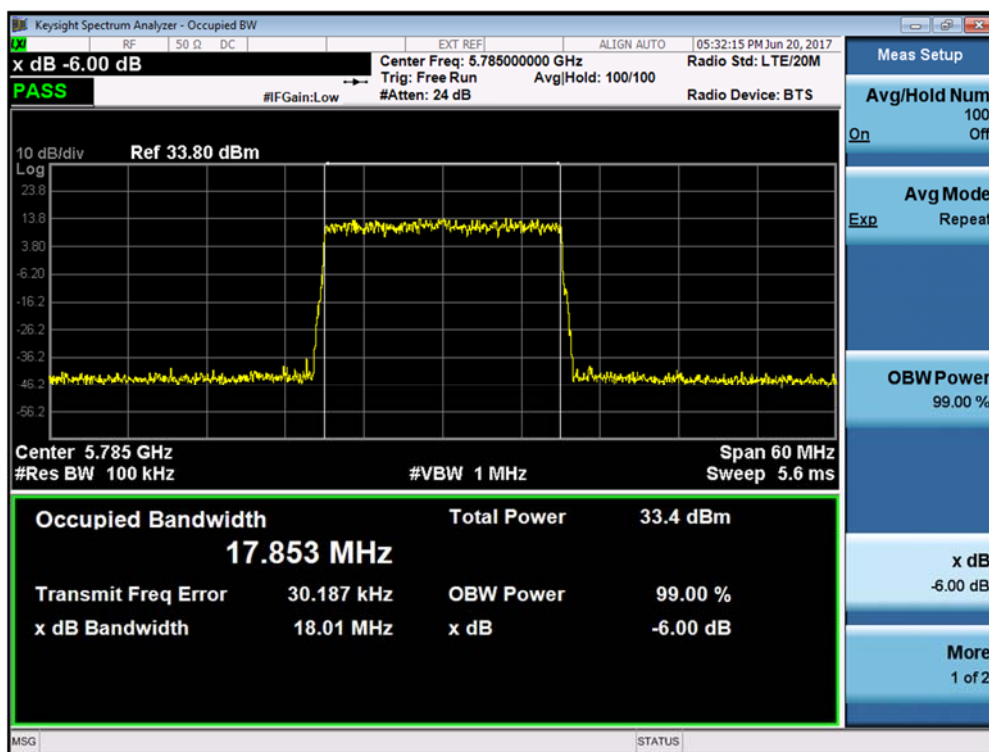
### Channel Position B - 16QAM / -6dB Bandwidth 20.0 MHz



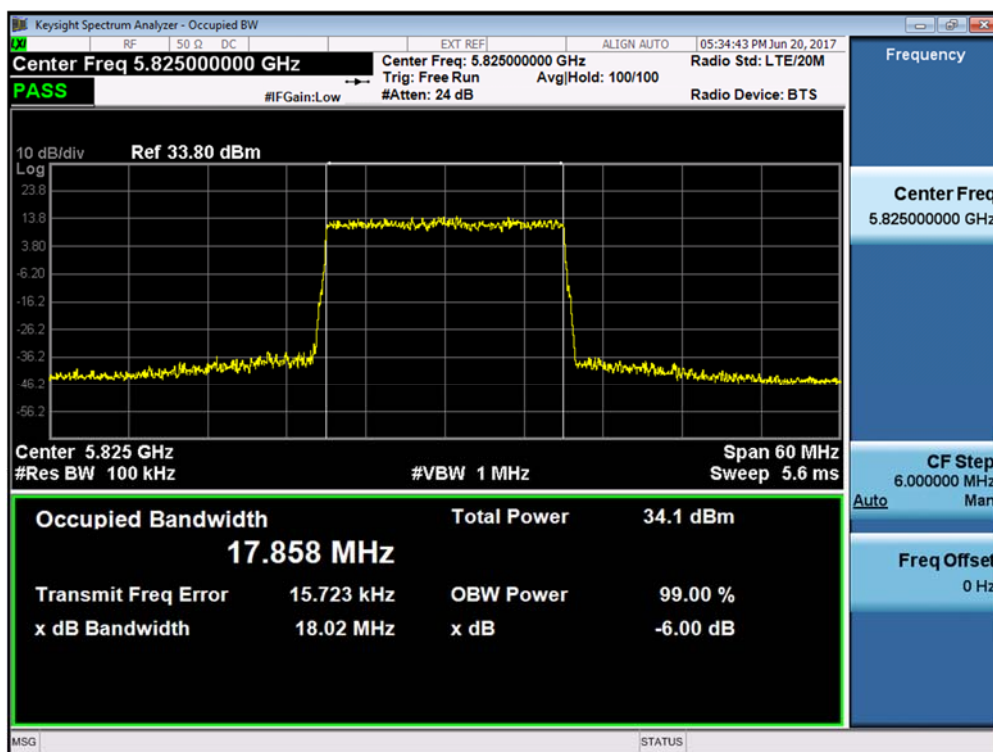


Product Service

### Channel Position M - 16QAM / -6dB Bandwidth 20.0 MHz



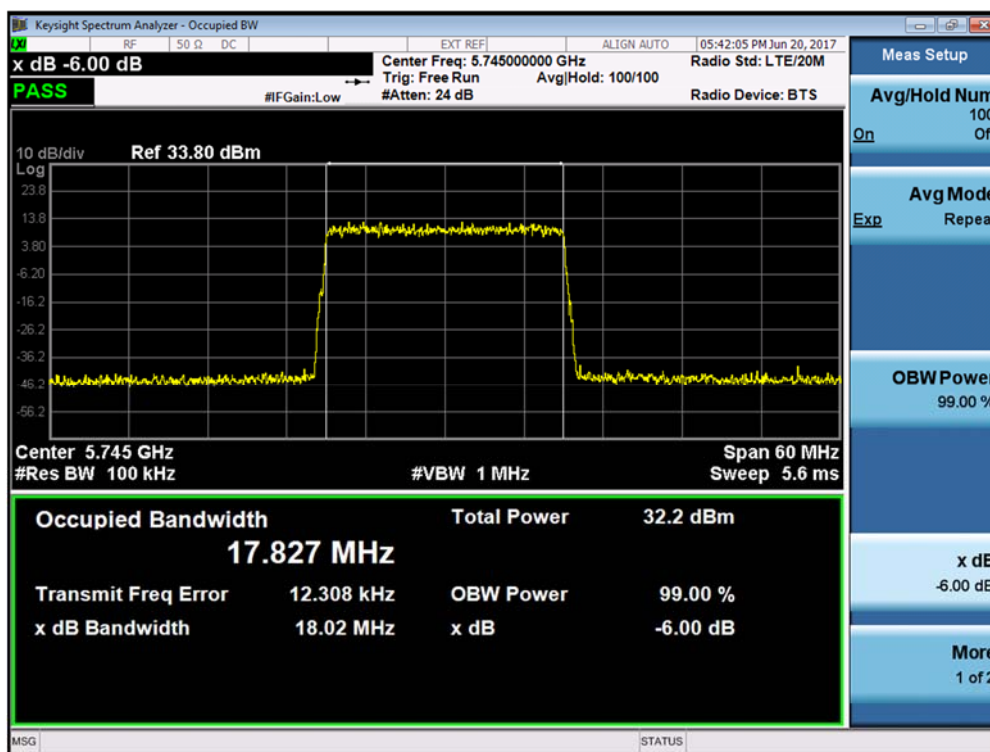
### Channel Position T - 16QAM / -6dB Bandwidth 20.0 MHz



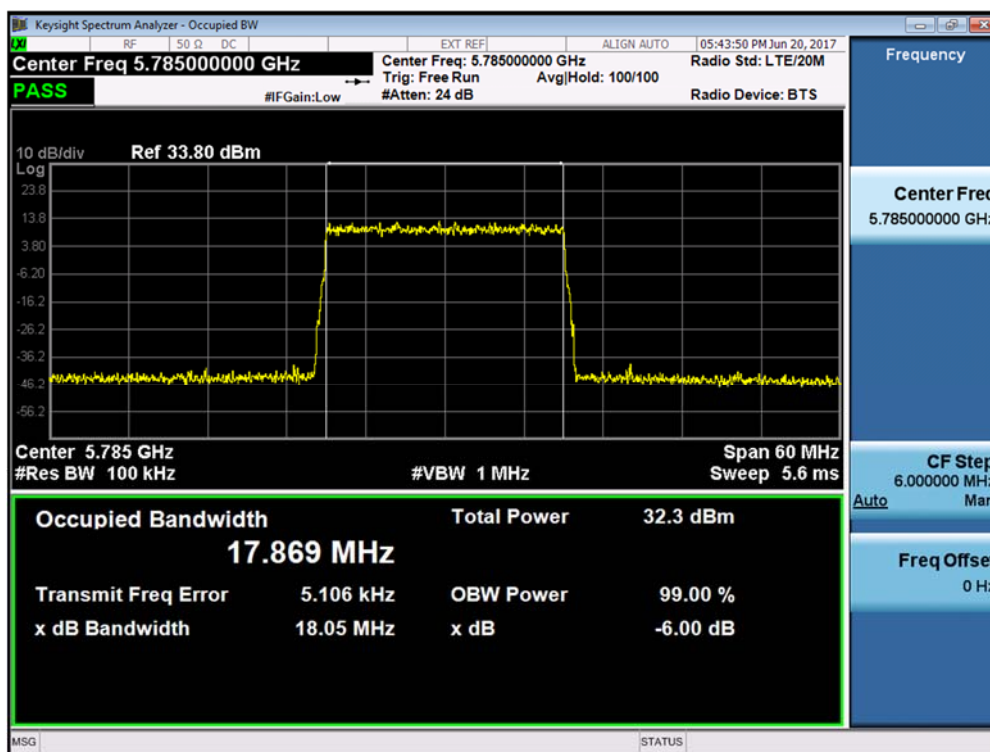


Product Service

### Channel Position B - 64QAM / -6dB Bandwidth 20.0 MHz



### Channel Position M - 64QAM / -6dB Bandwidth 20.0 MHz

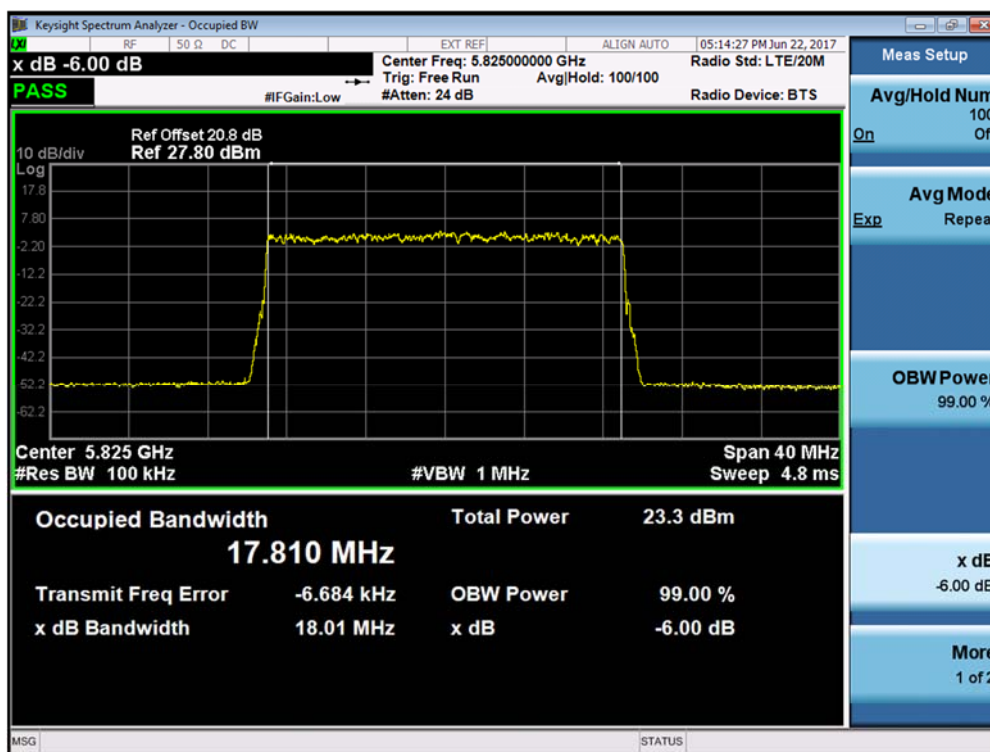




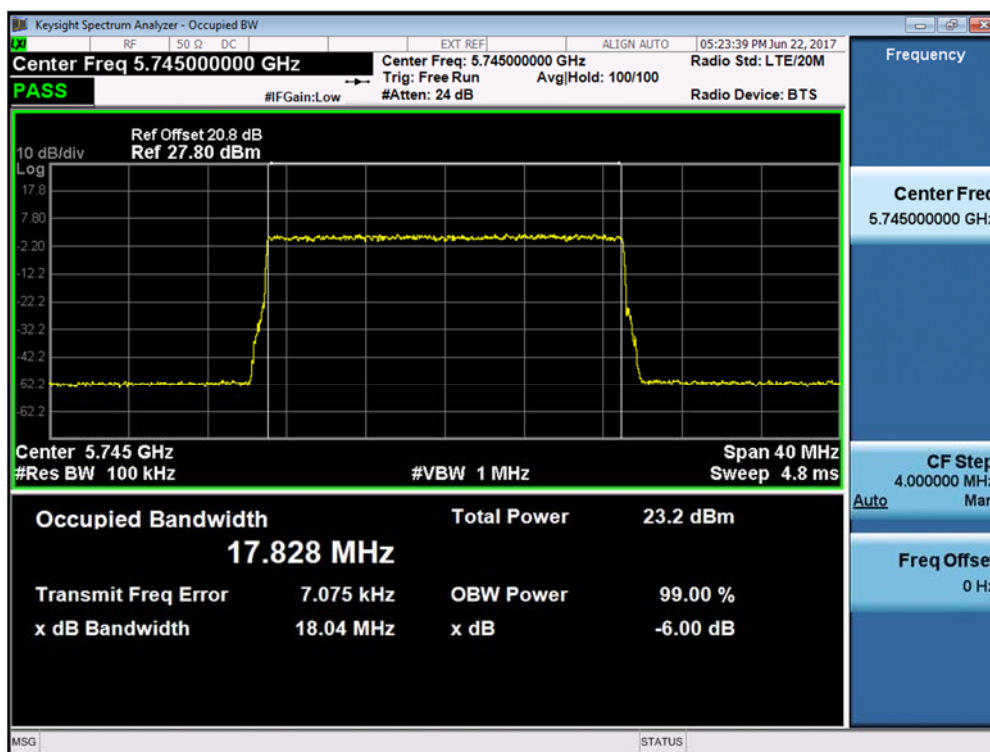


Product Service

### Channel Position T - 64QAM / -6dB Bandwidth 20.0 MHz



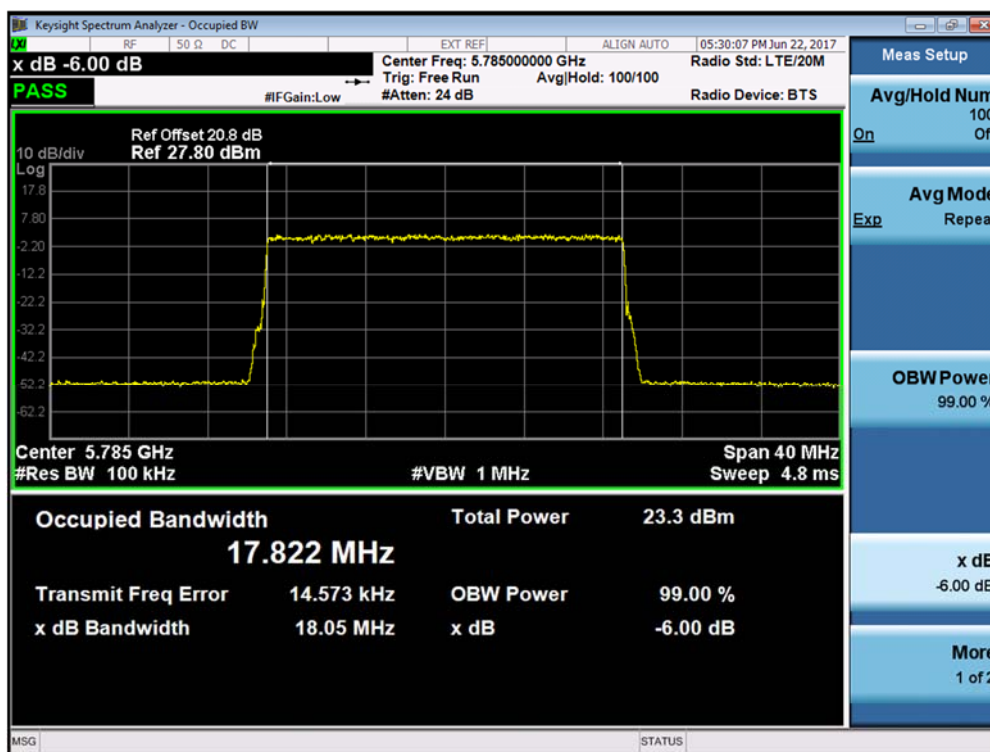
### Channel Position B - 256QAM / -6dB Bandwidth 20.0 MHz



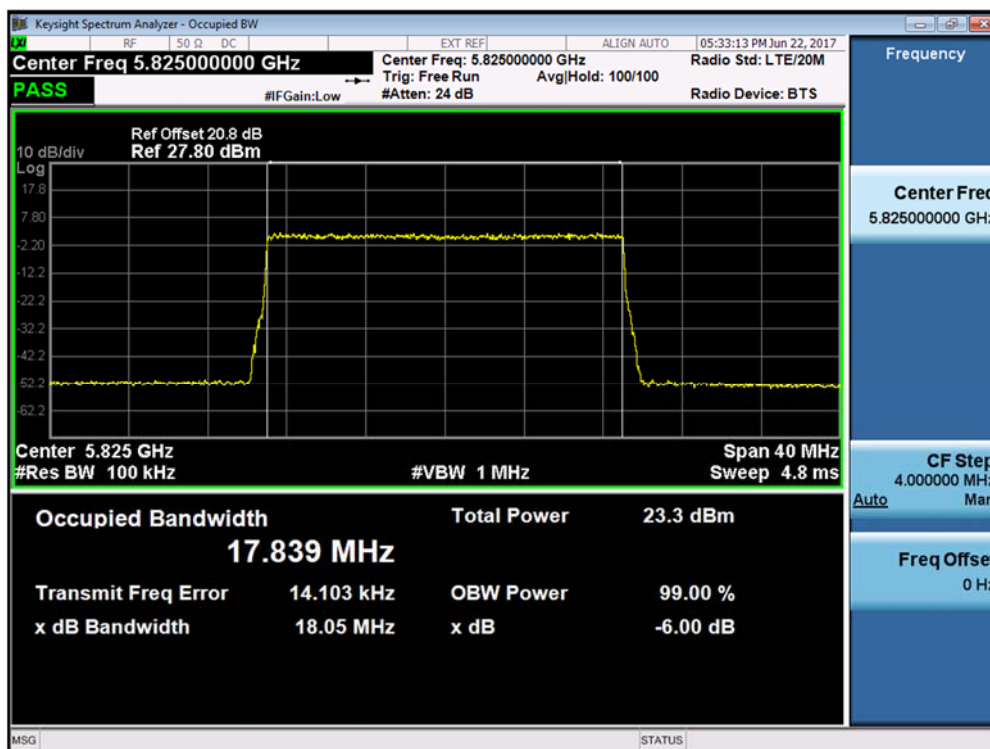


Product Service

### Channel Position M - 256QAM / -6dB Bandwidth 20.0 MHz



### Channel Position T - 256QAM / -6dB Bandwidth 20.0 MHz





Product Service

Limit	Within the 5.725–5.85 GHz band, the minimum 6 dB bandwidth of U–NII devices shall be at least 500 kHz.
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Remarks

The minimum 6 dB bandwidth was greater than 500 kHz.





Product Service

## **2.4 UNDESIRABLE EMISSION – CONDUCTED**

### **2.4.1 Specification Reference**

FCC CFR 47 Part 2, Clause 2.1051  
FCC CFR 47 Part 15, Clause 15.407 (b)  
FCC CFR 47 Part 15, Clause 15.209

### **2.4.2 Equipment Under Test**

Radio 2205 B46, KRC 161 609/1, S/N: D825784303

### **2.4.3 Date of Test and Modification State**

27 and 29 June 2017 - Modification State 0

### **2.4.4 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 4.1.

### **2.4.5 Environmental Conditions**

Ambient Temperature	23.5 - 54.0°C
Relative Humidity	22.0 - 57.0%

### **2.4.6 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.

In accordance with FCC CFR 47 Part 15, Clause 15.407 (b), 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.

(4) For transmitters operating in the 5.725–5.85 GHz band:

(i) 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) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

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



Product Service

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.



Product Service

## 2.4.7 Test Results

### Configuration A1

L-MIMO-SC

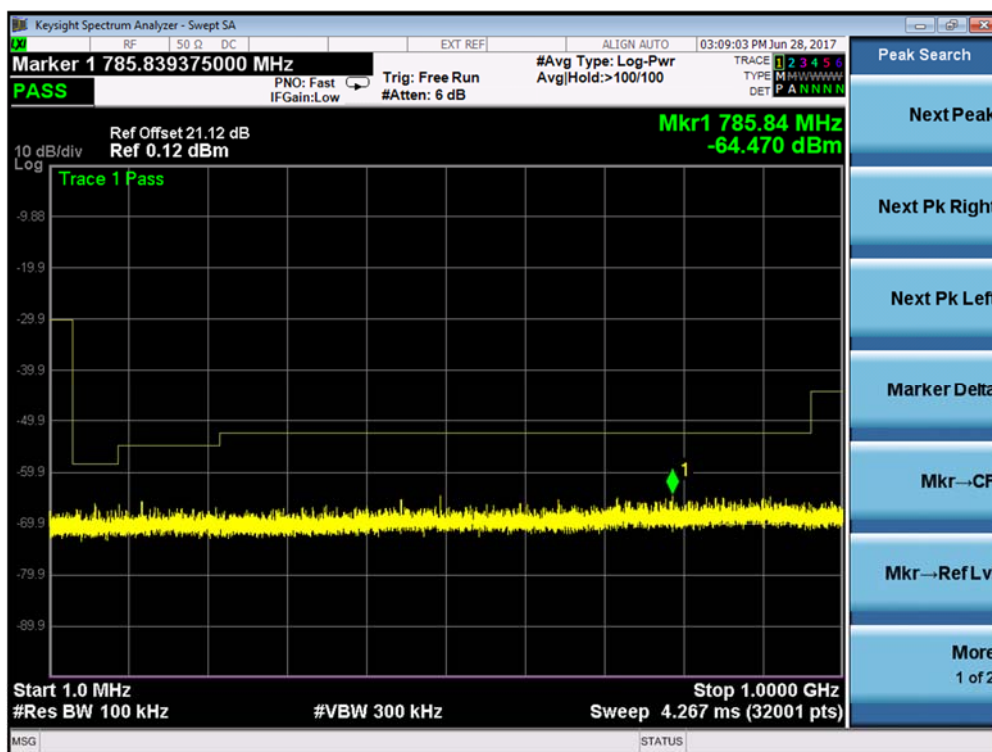
Maximum Output Power 20.5dBm per port

Channel Position	Bandwidth	Channel Frequency
Channel Position B	20.0MHz	5180.0MHz
Channel Position M	20.0MHz	5220.0MHz
Channel Position T	20.0MHz	5240.0MHz

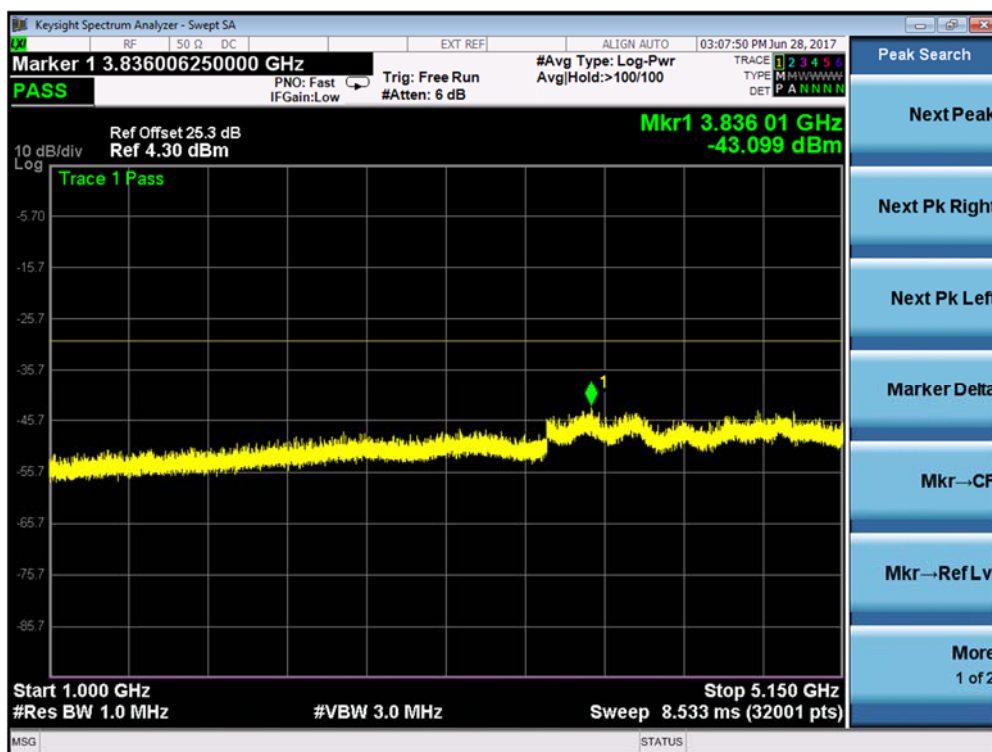


Product Service

### Channel Position B - QPSK - 1MHz - 1GHz



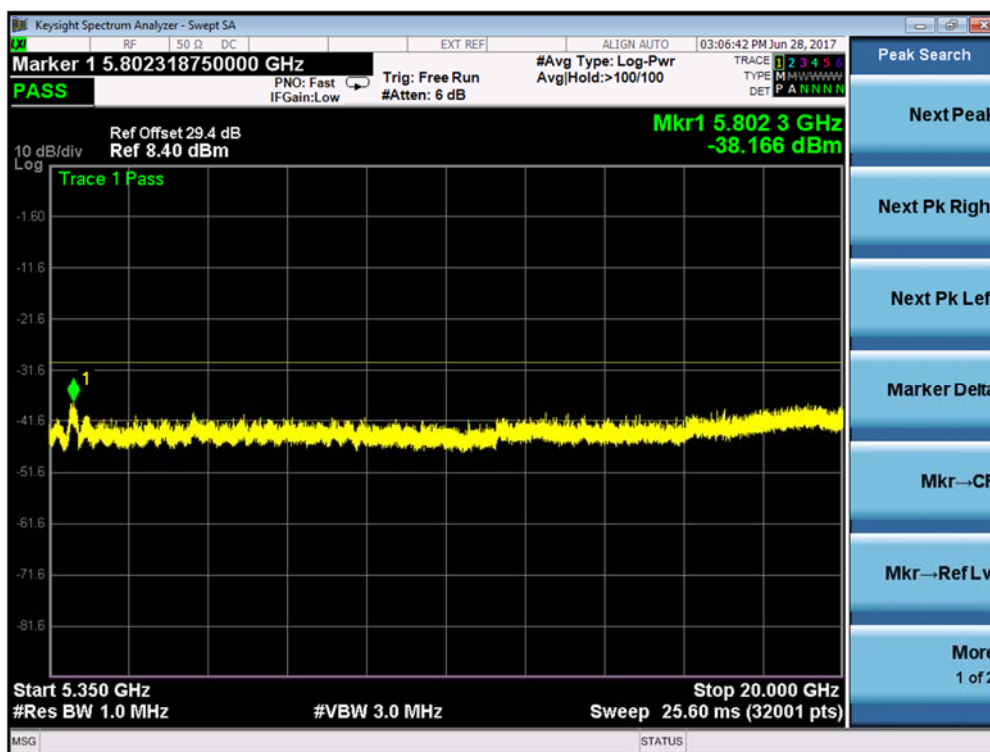
### Channel Position B - QPSK - 1GHz - 5.15GHz



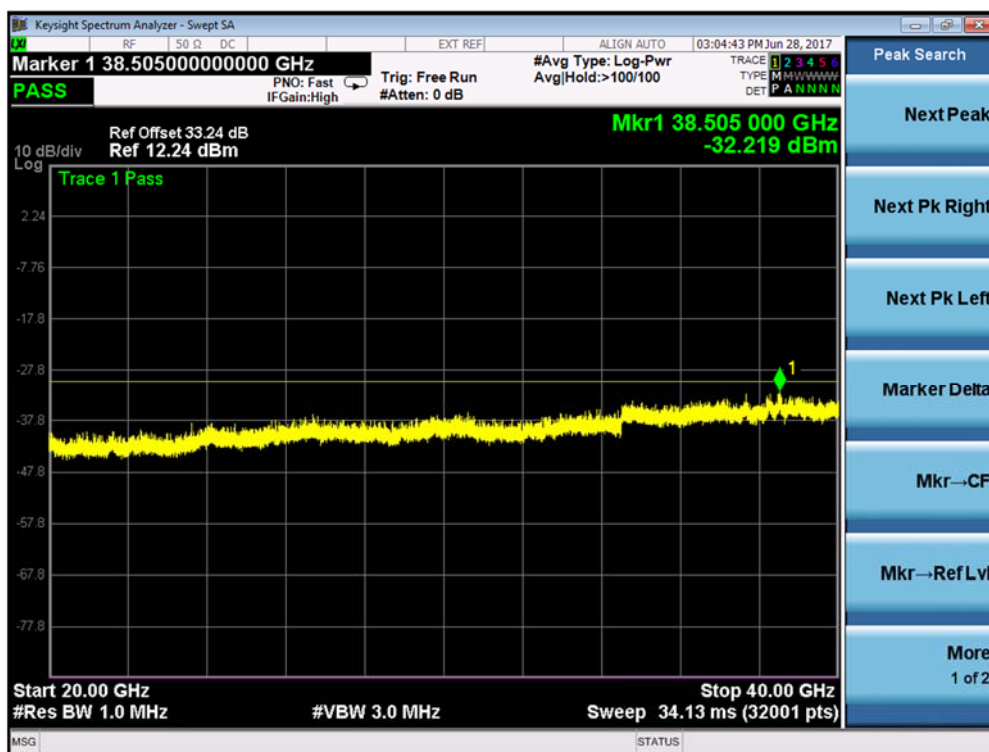


Product Service

### Channel Position B - QPSK - 5.35GHz - 20GHz



### Channel Position B - QPSK - 20GHz - 40GHz

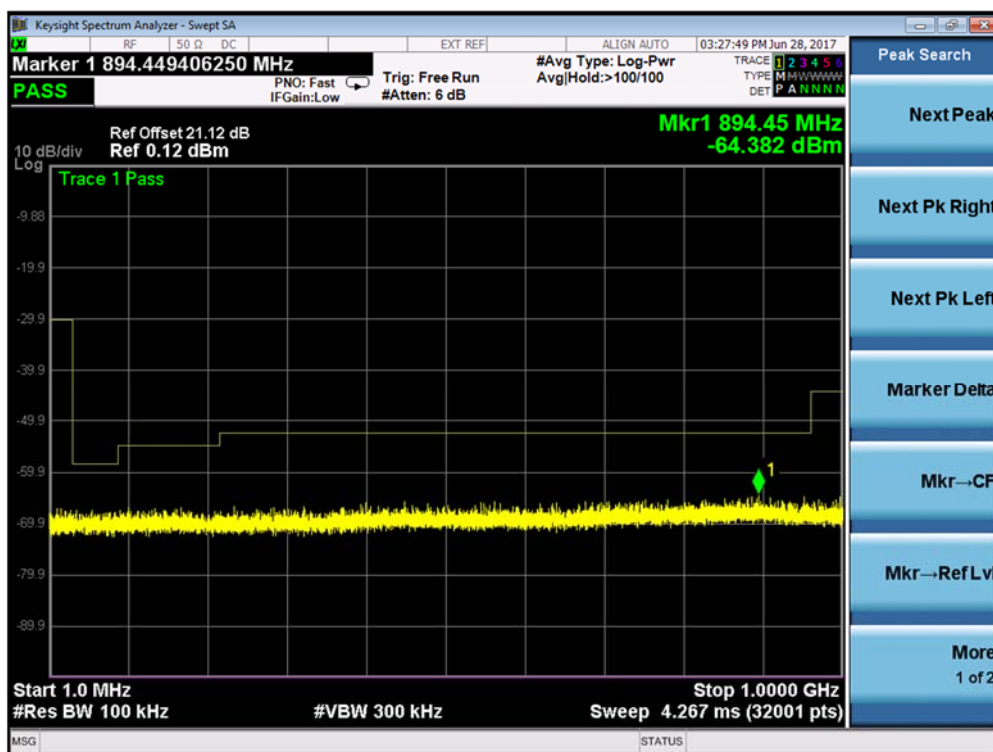




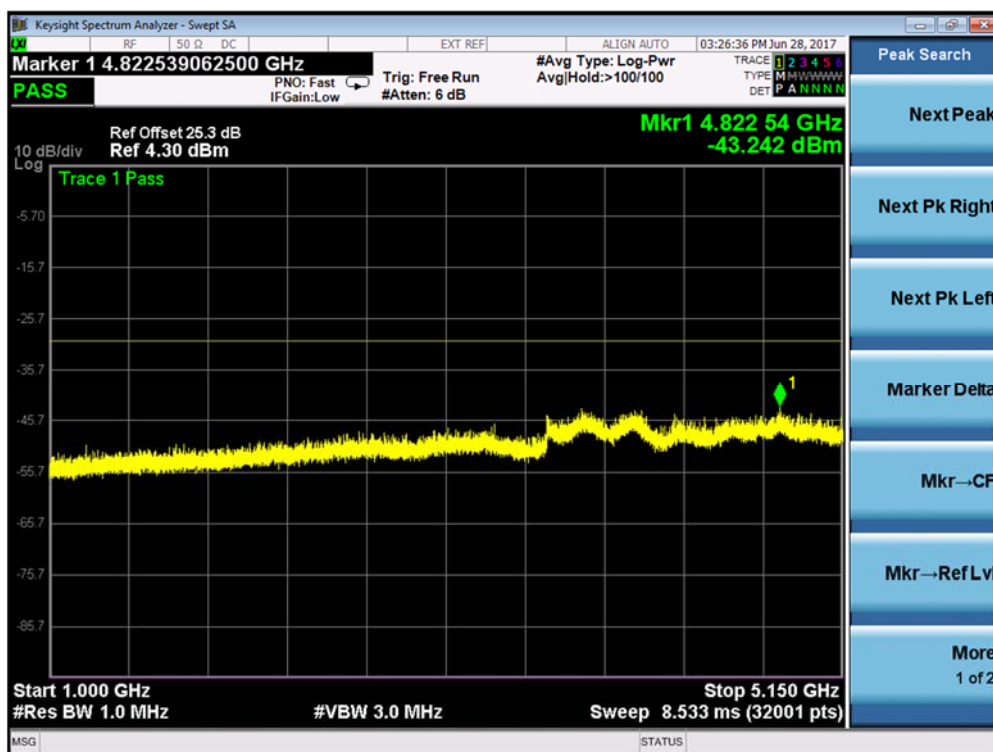


Product Service

### Channel Position M - QPSK - 1MHz - 1GHz



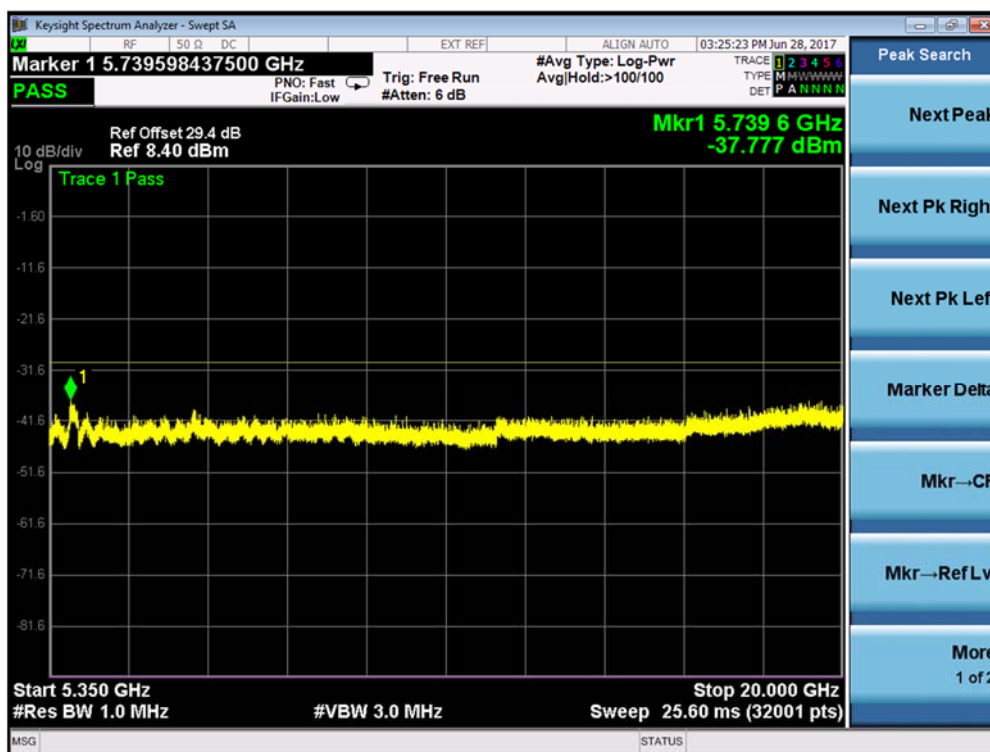
### Channel Position M - QPSK - 1GHz - 5.15GHz





Product Service

### Channel Position M - QPSK - 5.35GHz - 20GHz



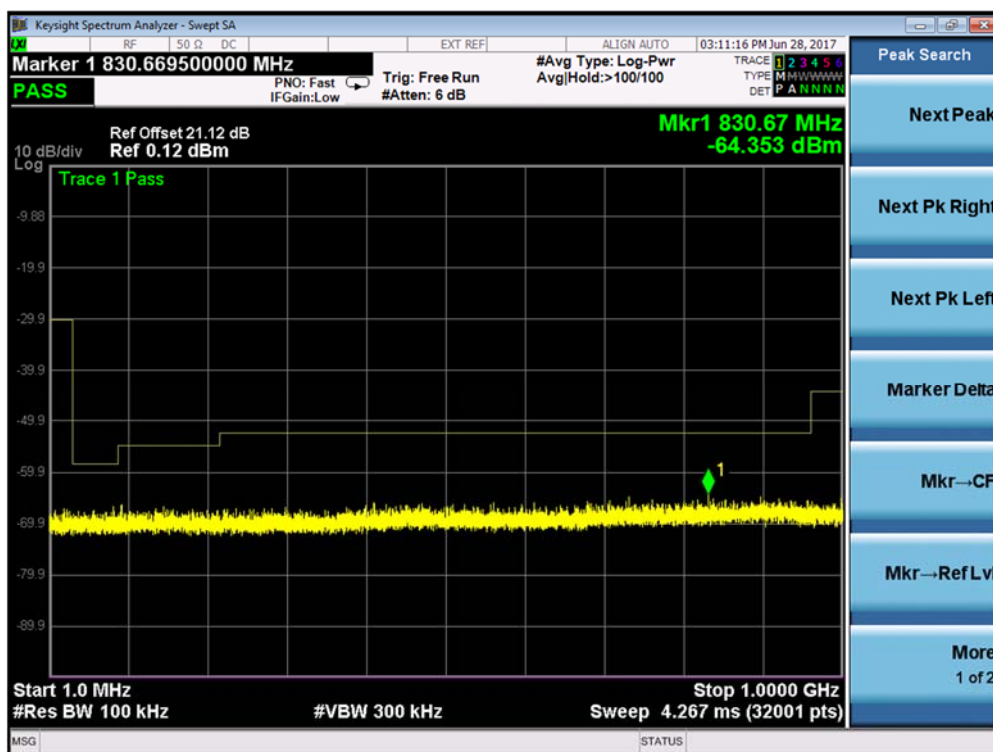
### Channel Position M - QPSK - 20GHz - 40GHz



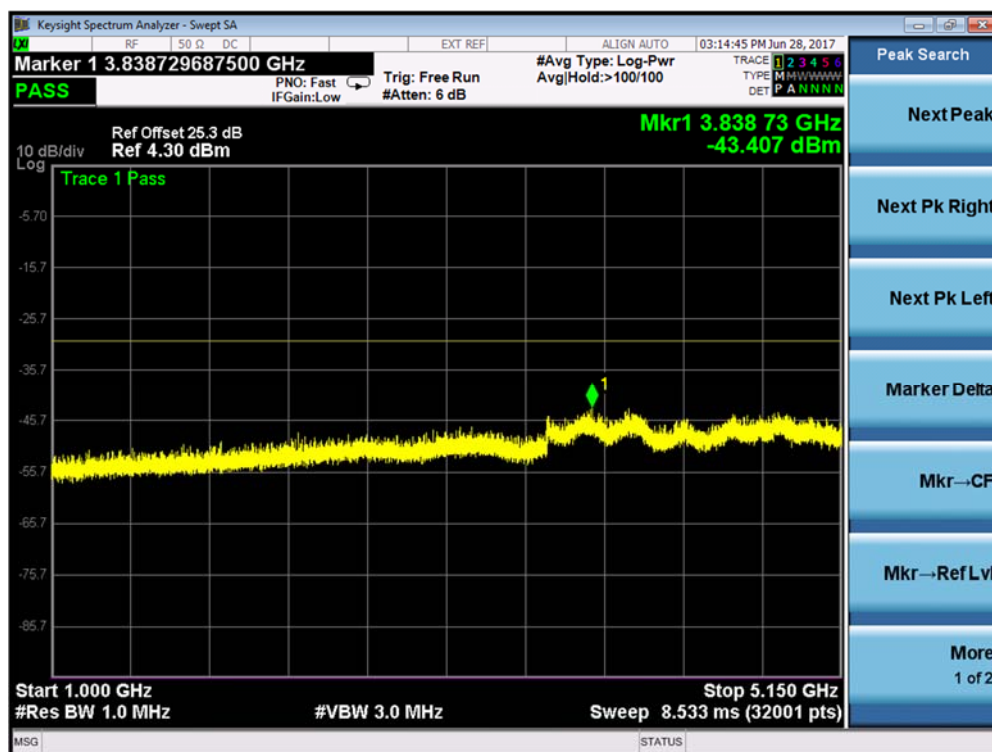


Product Service

### Channel Position T - QPSK - 1MHz - 1GHz



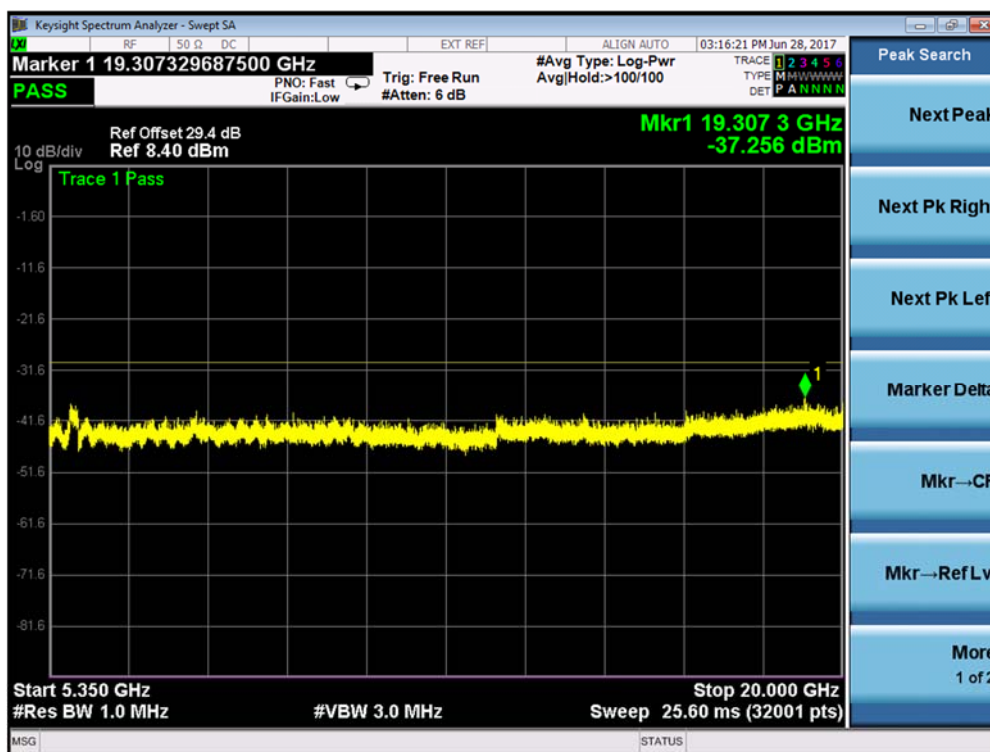
### Channel Position T - QPSK - 1GHz - 5.15GHz



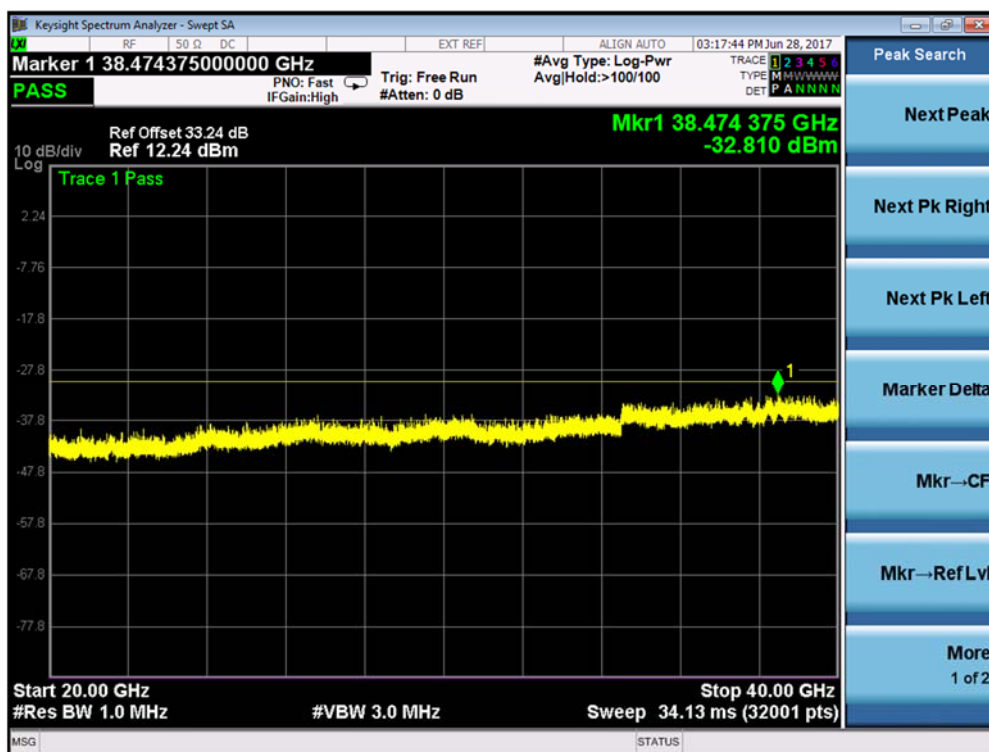


Product Service

### Channel Position T - QPSK - 5.35GHz - 20GHz



### Channel Position T - QPSK - 20GHz - 40GHz





Product Service

L-MIMO-MC 1 (2C)

Maximum Output Power 20.5dBm per port

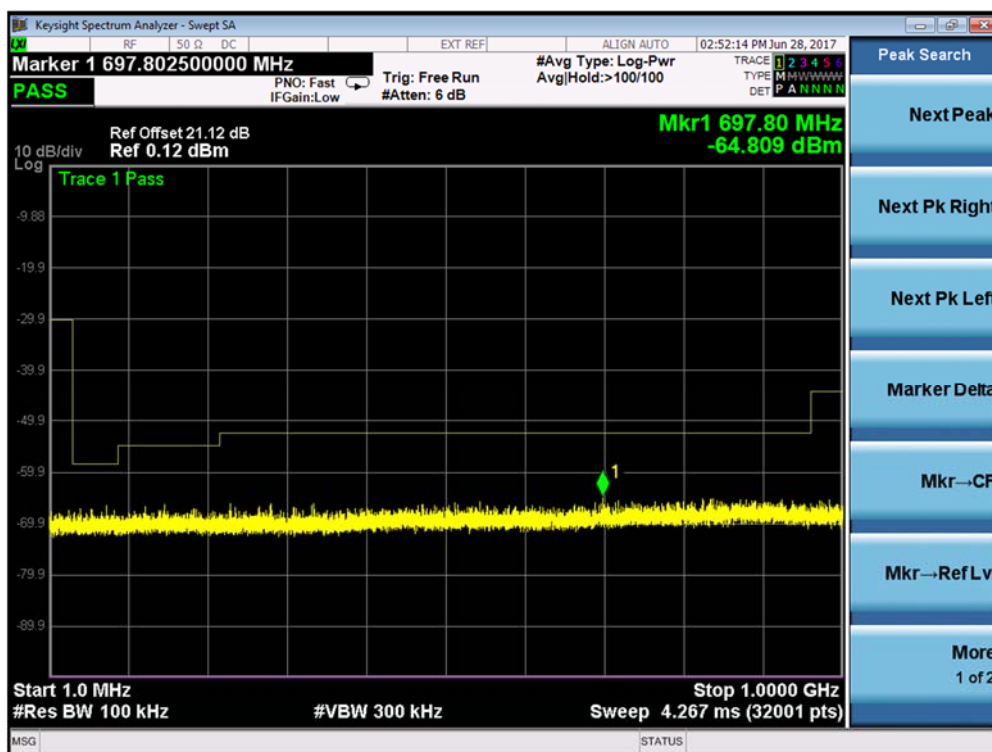
Channel Position	Bandwidth	Channel Frequency
Channel Position B <sub>RFBW</sub>	20 MHz	5180.0MHz + 5220.0MHz
Channel Position M <sub>RFBW</sub>	20 MHz	-
Channel Position T <sub>RFBW</sub>	20 MHz	5200.0MHz + 5240.0MHz



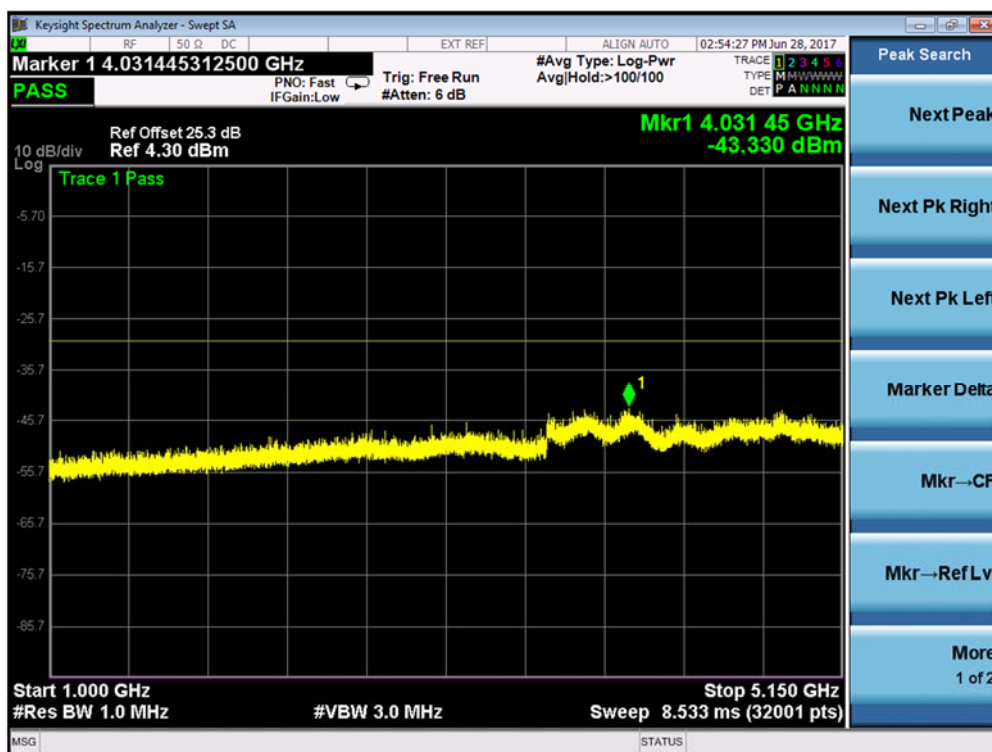


Product Service

### Channel Position $B_{RFBW}$ - QPSK - 1MHz - 1GHz



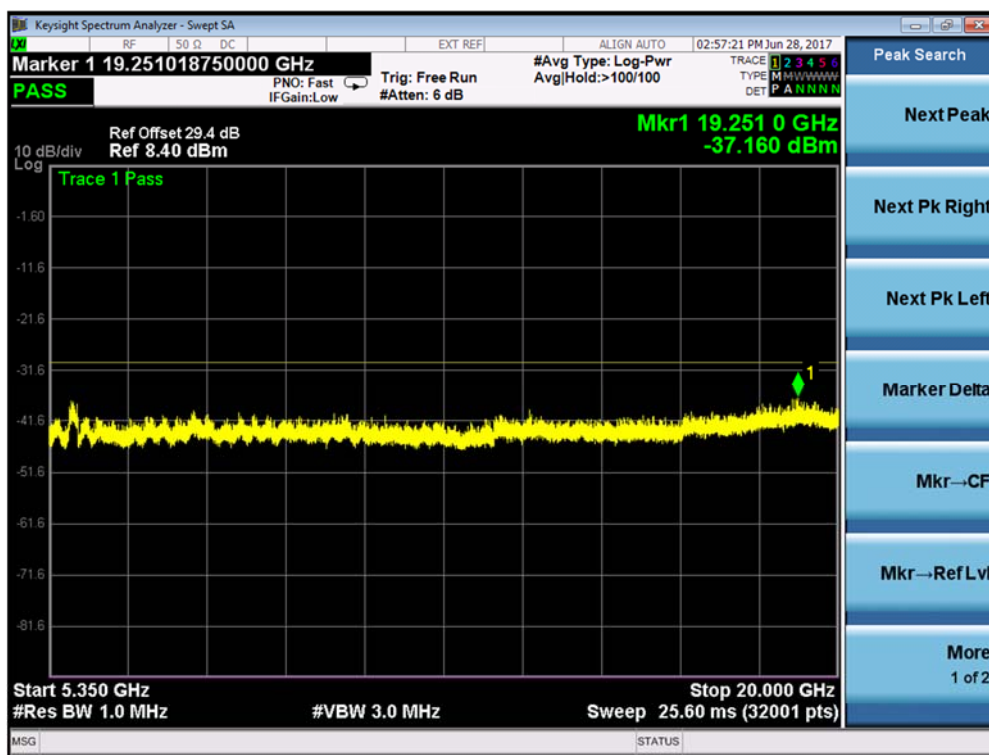
### Channel Position $B_{RFBW}$ - QPSK - 1GHz - 5.15GHz



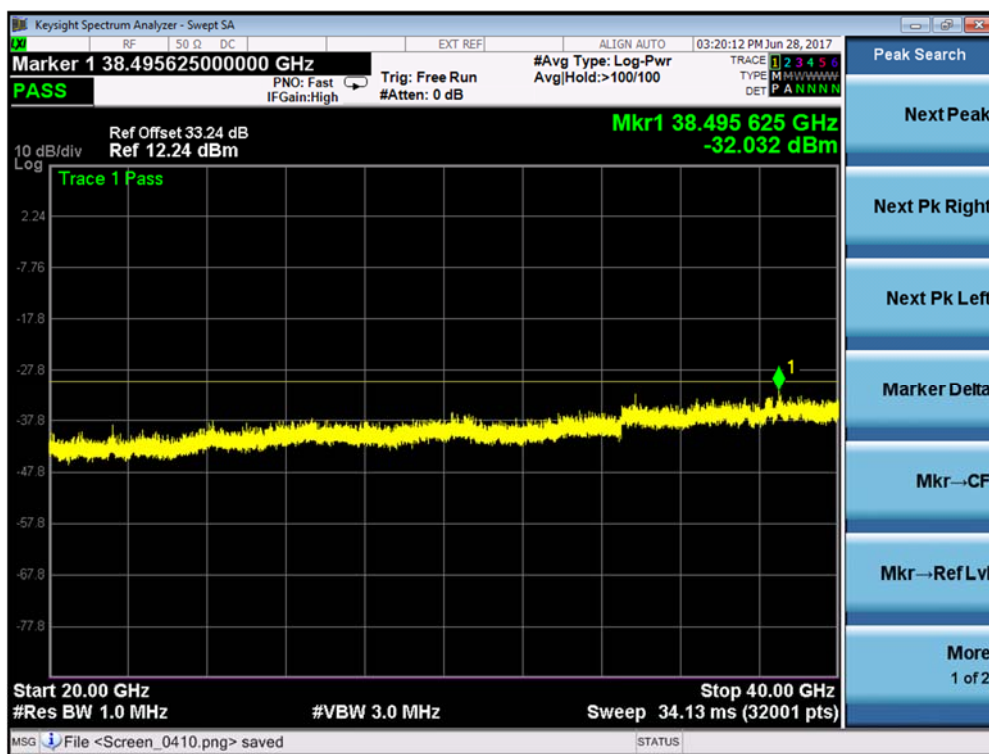


Product Service

### Channel Position $B_{RFBW}$ - QPSK - 5.35GHz - 20GHz



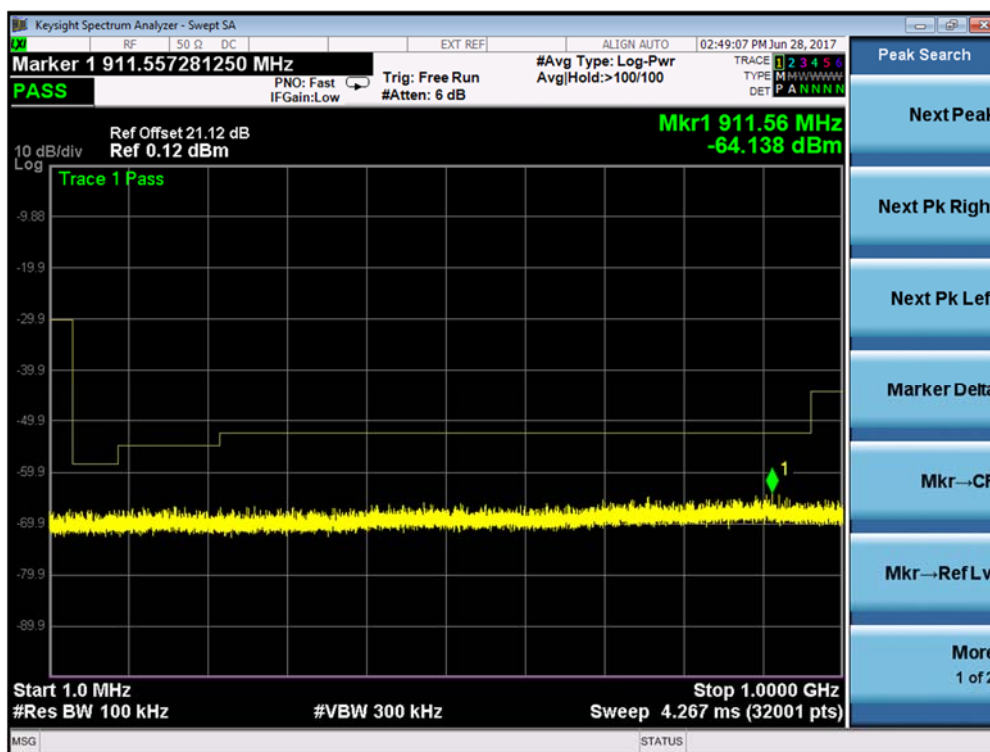
### Channel Position $B_{RFBW}$ - QPSK - 20GHz - 40GHz



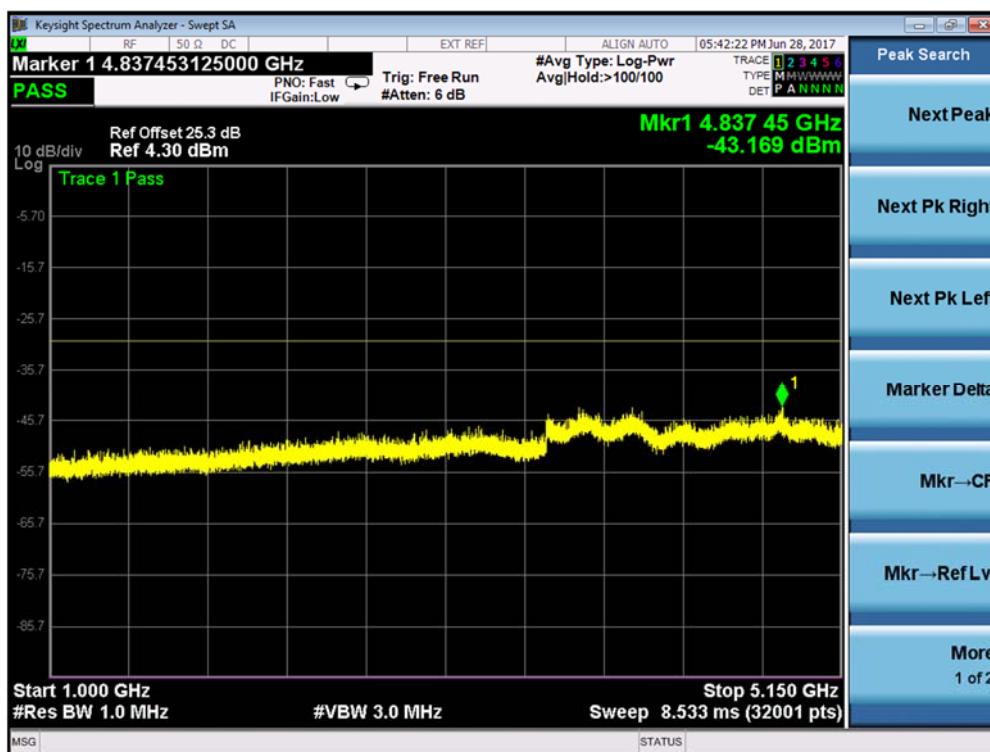


Product Service

### Channel Position $T_{RFBW}$ - QPSK - 1MHz - 1GHz



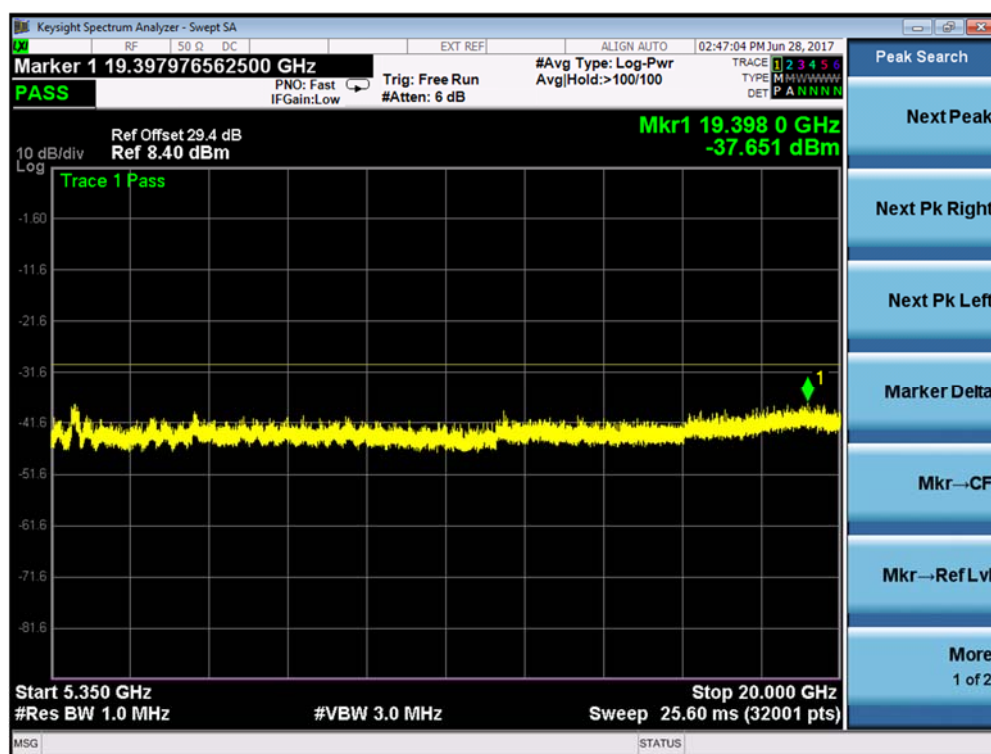
### Channel Position $T_{RFBW}$ - QPSK - 1GHz - 5.15GHz





Product Service

### Channel Position $T_{RFBW}$ - QPSK - 5.35GHz - 20GHz



### Channel Position $T_{RFBW}$ - QPSK - 20GHz - 40GHz





Product Service

L-MIMO-MC 2 (3C)

Maximum Output Power 20.5dBm per port

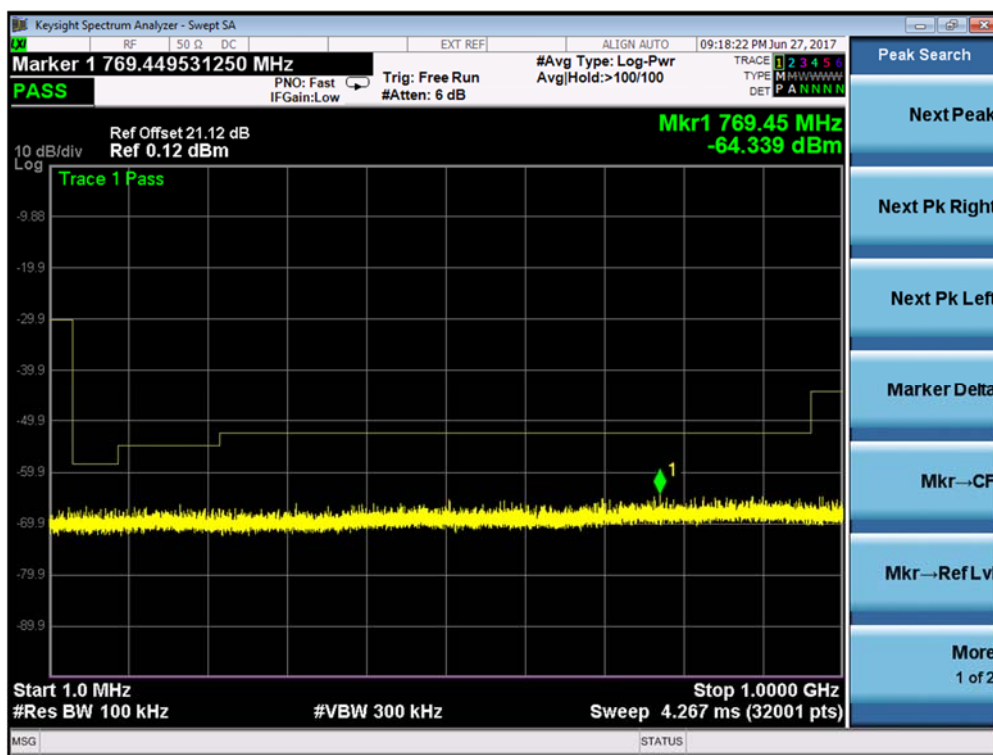
Channel Position	Bandwidth	Channel Frequency
Channel Position B <sub>RFBW</sub>	20 MHz	5180.0MHz + 5200.0MHz + 5220.0MHz
Channel Position M <sub>RFBW</sub>	20 MHz	-
Channel Position T <sub>RFBW</sub>	20 MHz	5200.0MHz + 5220.0MHz + 5240.0MHz



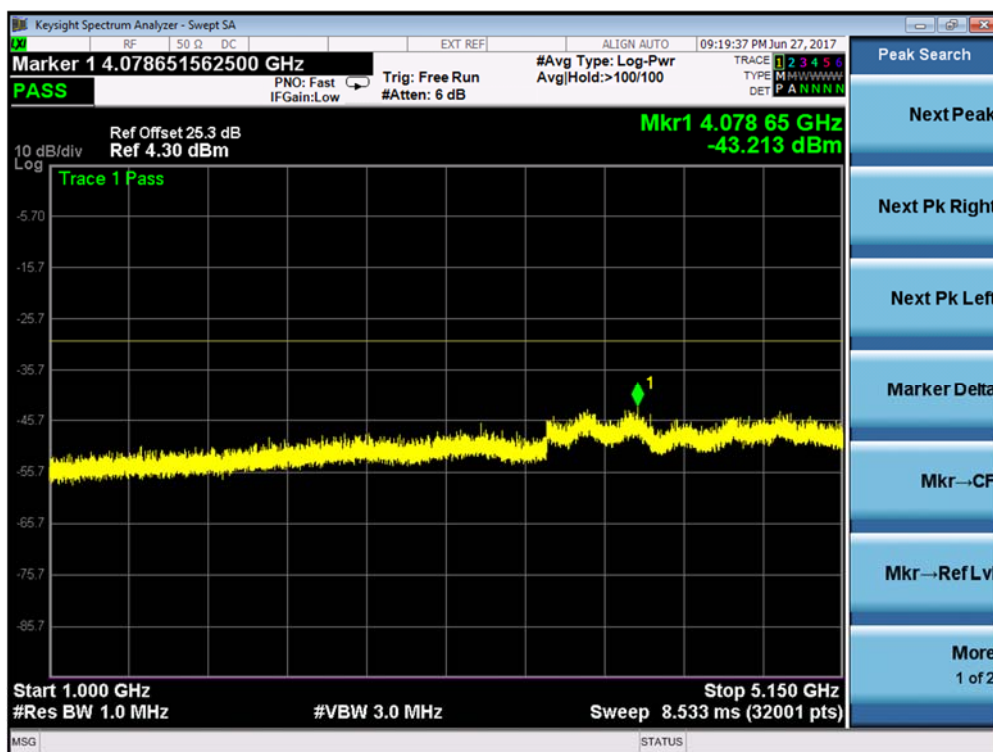


Product Service

### Channel Position $B_{RFBW}$ - QPSK - 1MHz - 1GHz



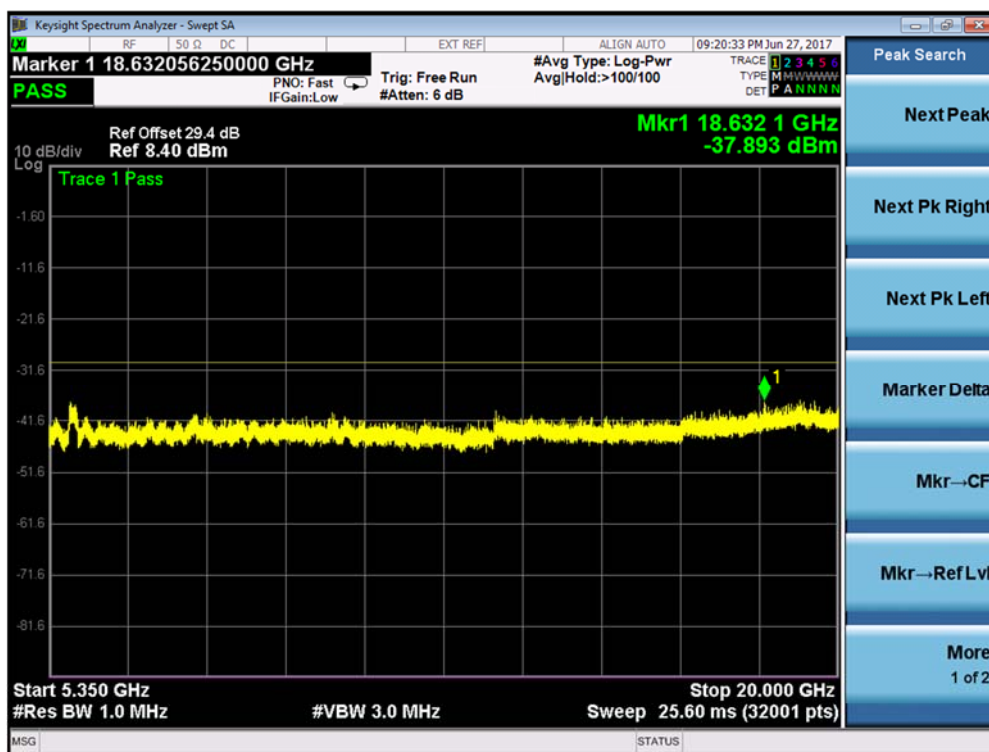
### Channel Position $B_{RFBW}$ - QPSK - 1GHz - 5.15GHz



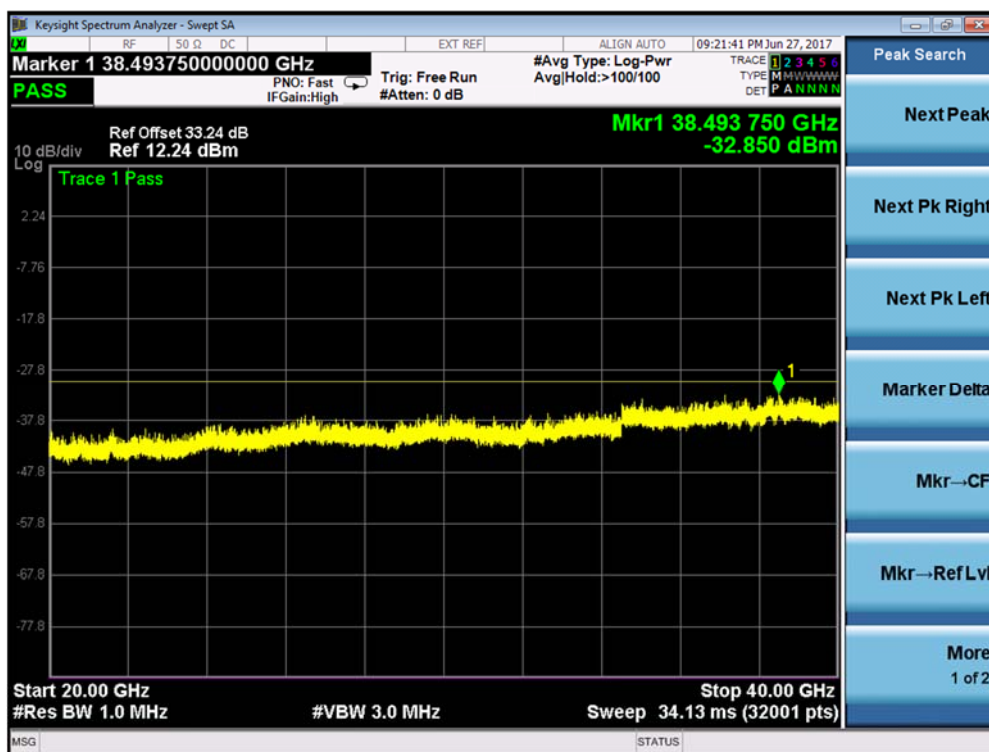


Product Service

### Channel Position $B_{RFBW}$ - QPSK - 5.35GHz - 20GHz



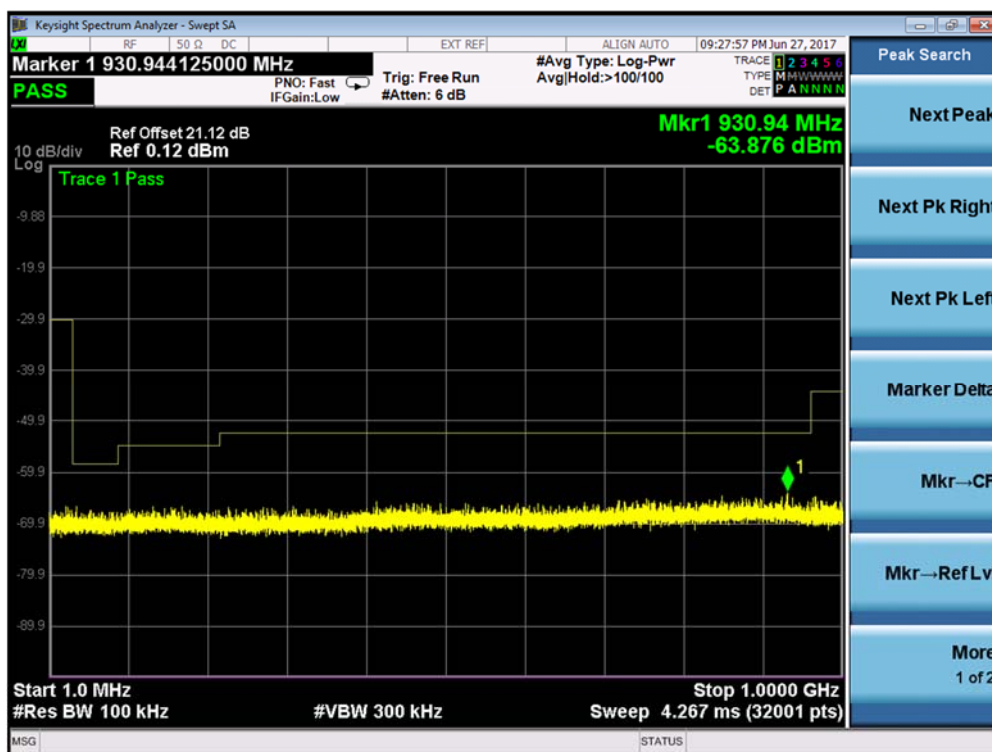
### Channel Position $B_{RFBW}$ - QPSK - 20GHz - 40GHz



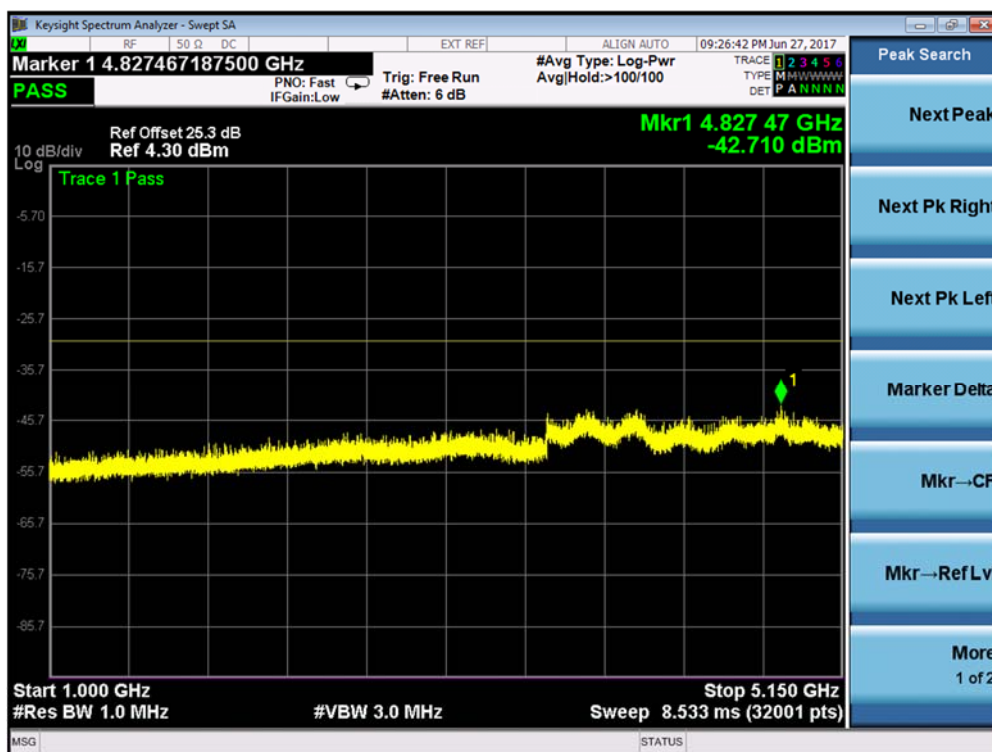


Product Service

### Channel Position $T_{RFBW}$ - QPSK - 1MHz - 1GHz



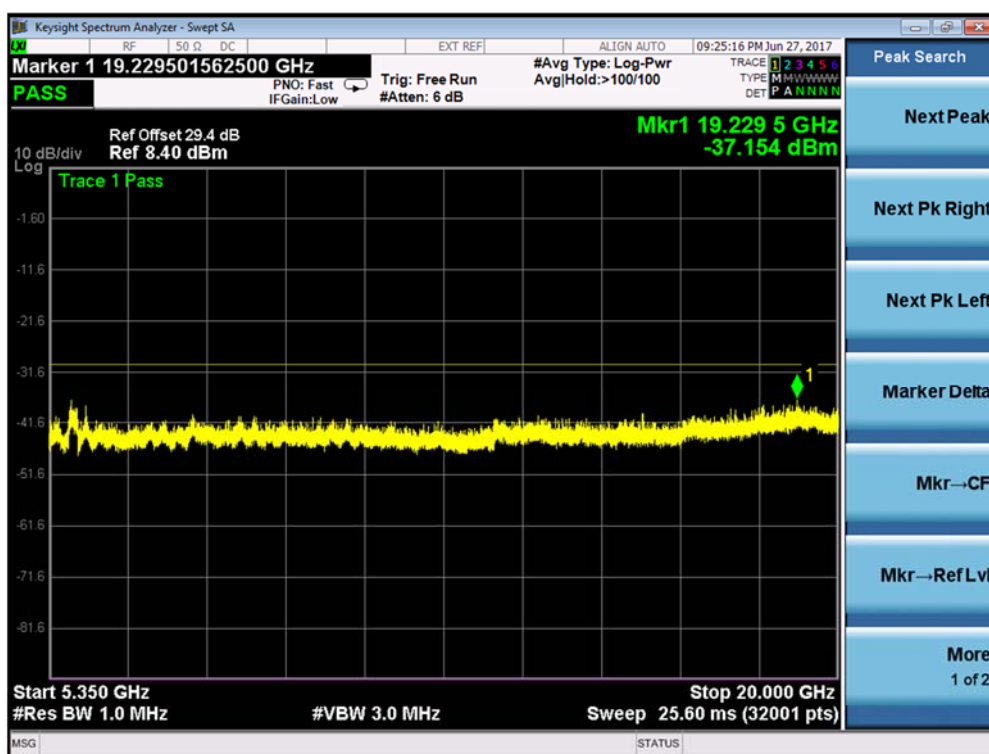
### Channel Position $T_{RFBW}$ - QPSK - 1GHz - 5.15GHz



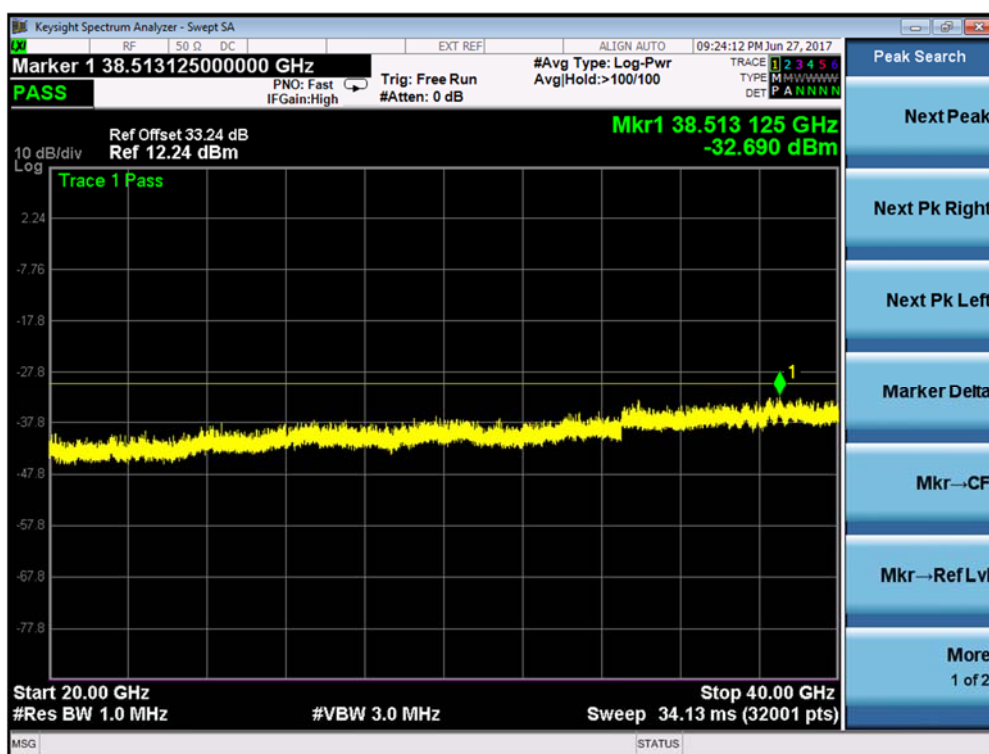


Product Service

### Channel Position $T_{RFBW}$ - QPSK - 5.35GHz - 20GHz



### Channel Position $T_{RFBW}$ - QPSK - 20GHz - 40GHz





Product Service

### Configuration A2

L-MIMO-SC

Maximum Output Power 20.5dBm per port

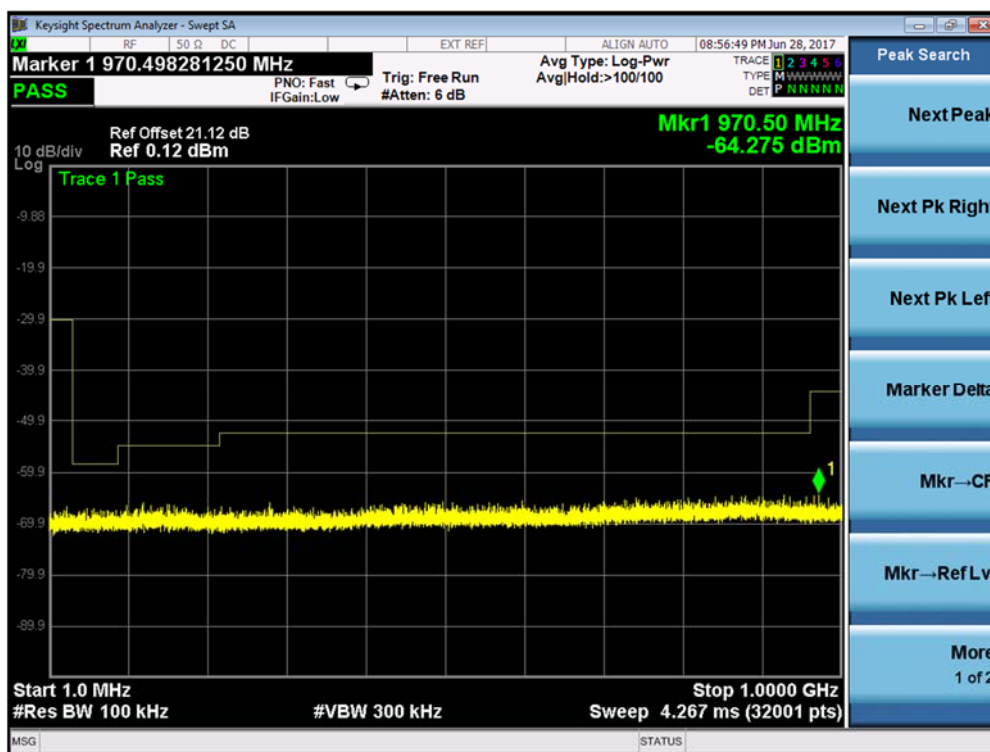
Channel Position	Bandwidth	Channel Frequency
Channel Position B	20.0MHz	5745.0MHz
Channel Position M	20.0MHz	5785.0MHz
Channel Position T	20.0MHz	5825.0MHz



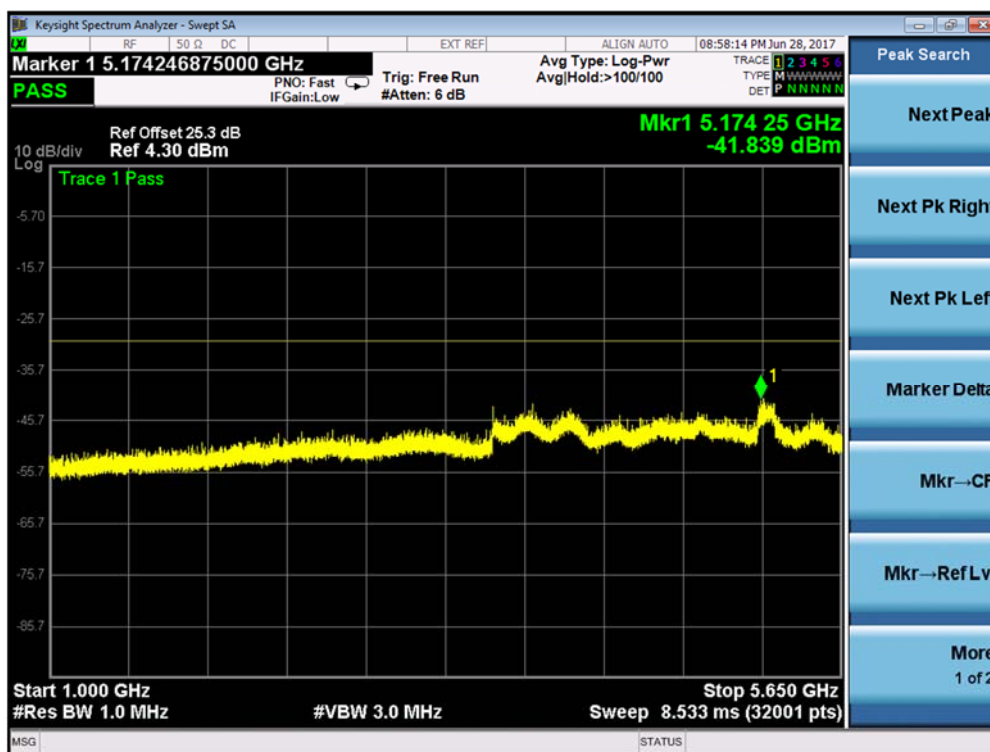


Product Service

### Channel Position B - QPSK - 1MHz - 1GHz



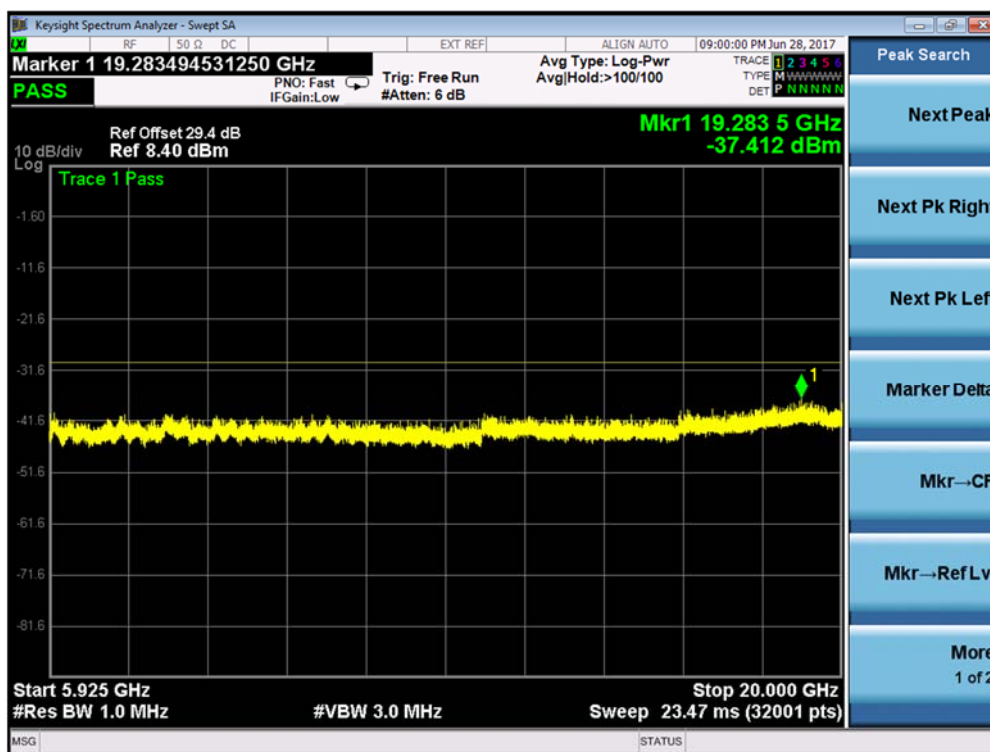
### Channel Position B - QPSK - 1GHz - 5.650GHz



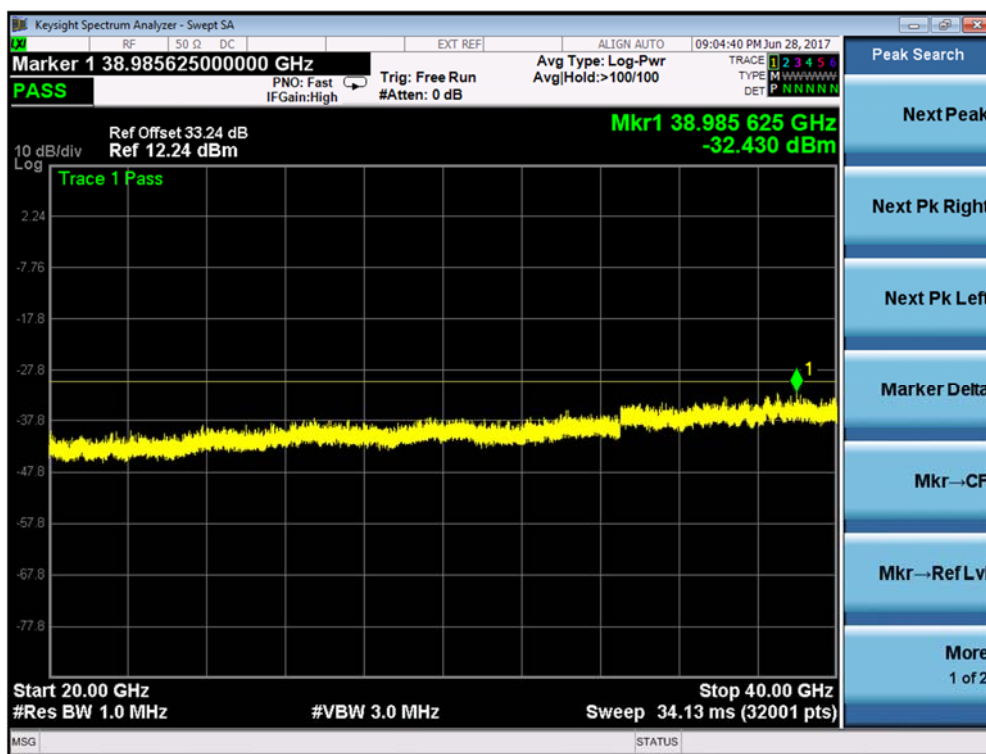


Product Service

### Channel Position B - QPSK - 5.925GHz - 20GHz



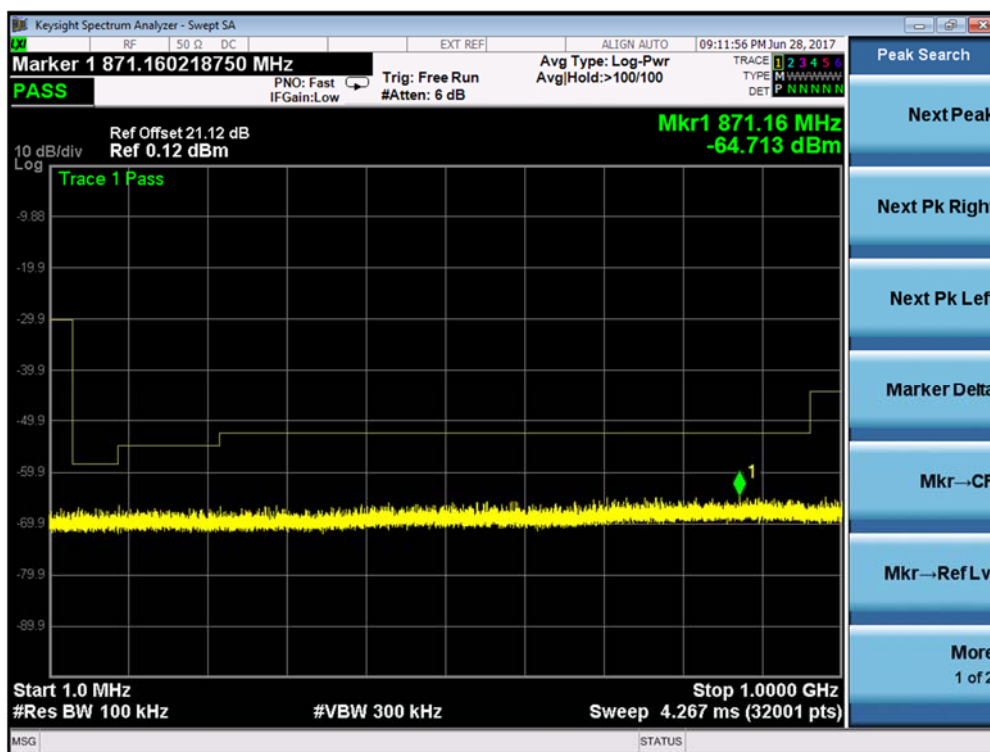
### Channel Position B - QPSK - 20GHz - 40GHz



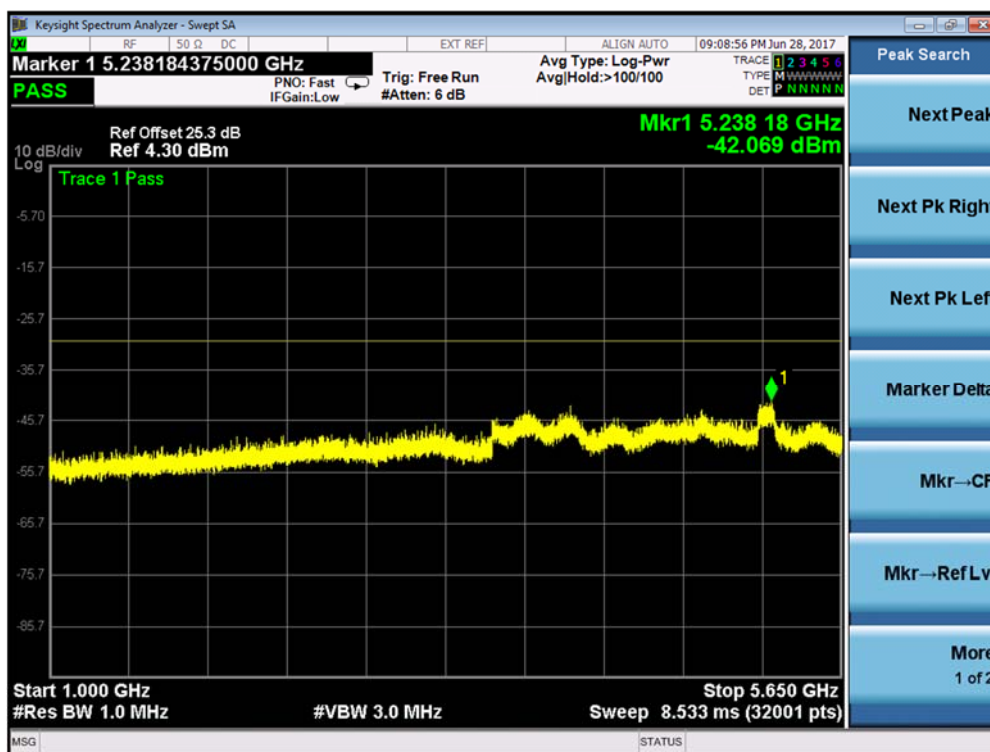


Product Service

### Channel Position M - QPSK - 1MHz - 1GHz



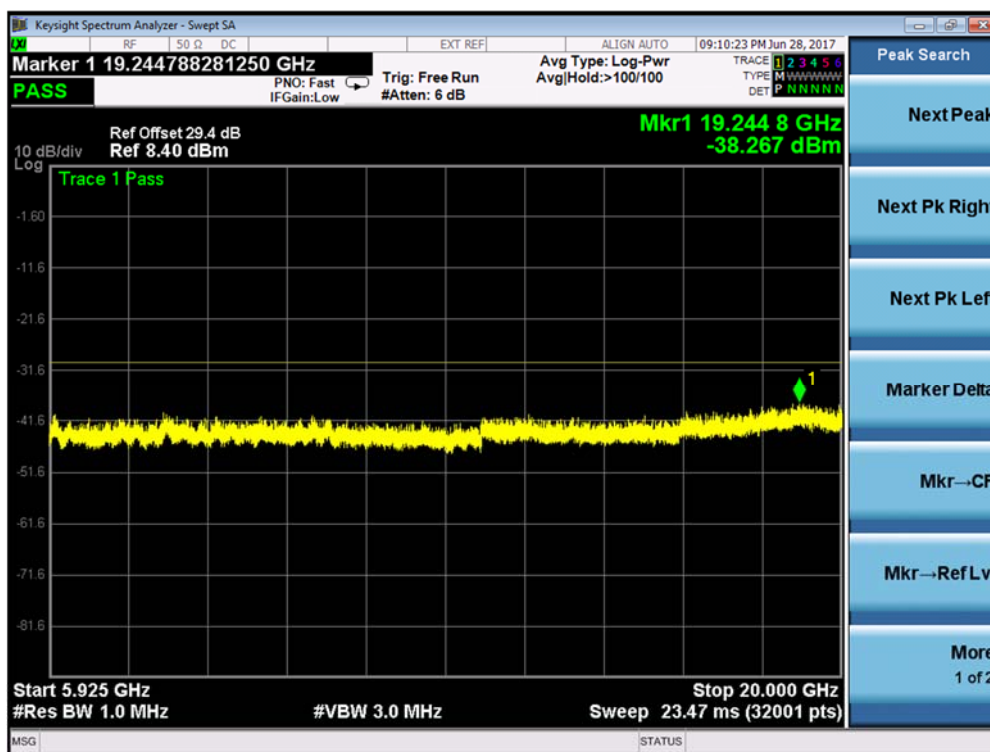
### Channel Position M - QPSK - 1GHz - 5.650GHz





Product Service

### Channel Position M - QPSK - 5.925GHz - 20GHz



### Channel Position M - QPSK - 20GHz - 40GHz

