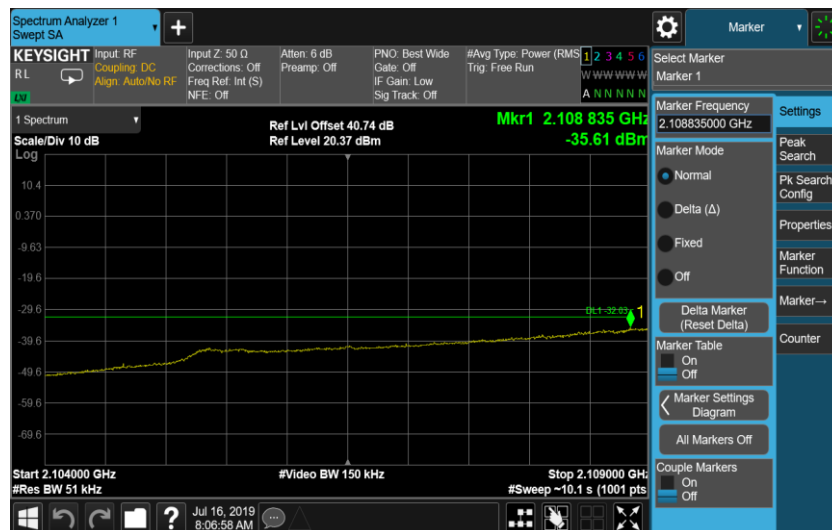
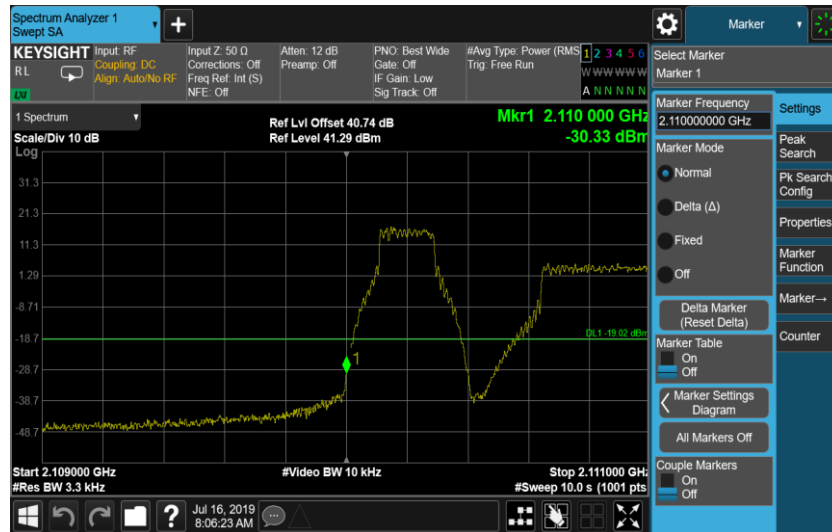


Port A , Channel Position B, LTE 5.0MHz



Port A , Channel Position T, LTE 5.0MHz

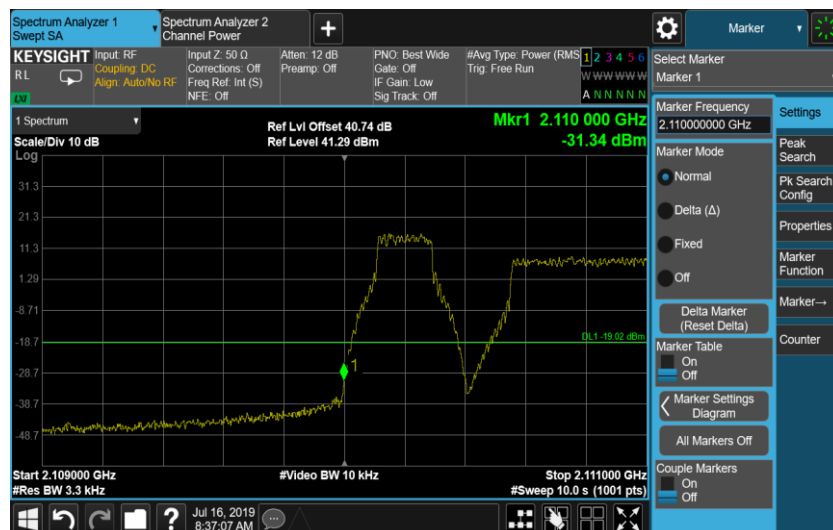


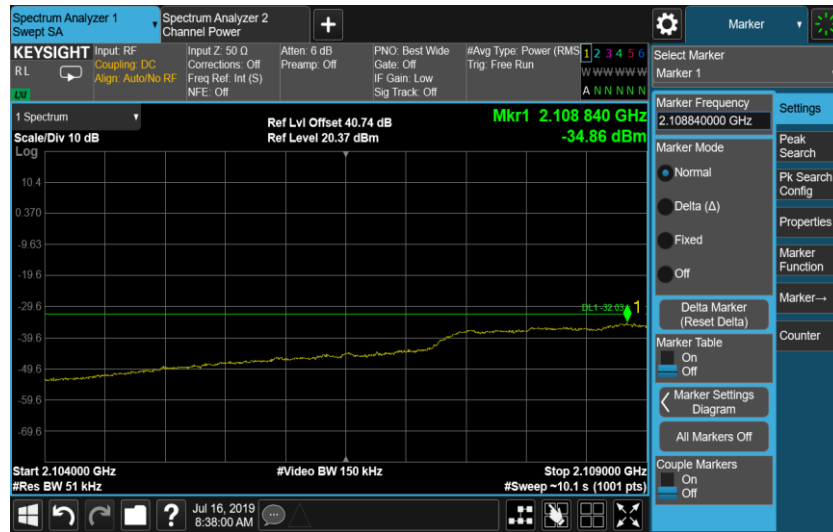


Configuration LTE+NB-IoT-MC-4-BE, (2LTE, QPSK+1SA, QPSK)

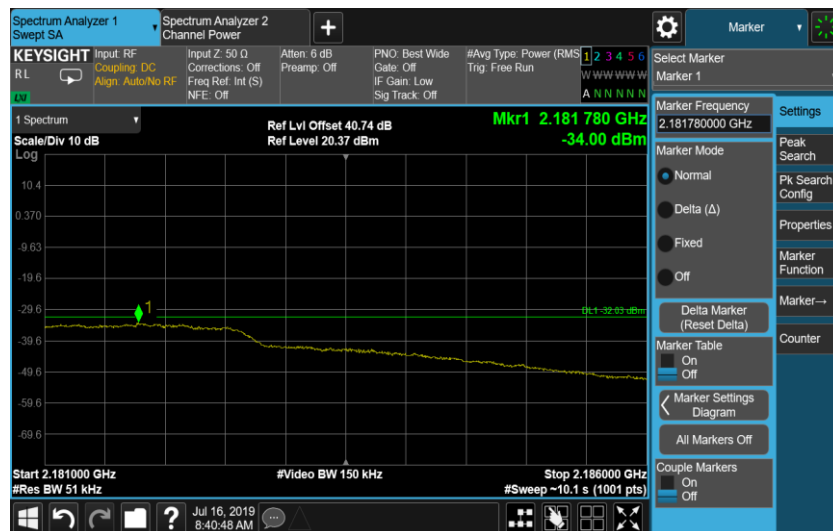
| Band Edge Frequency           | Channel Bandwidth        | RBW (KHz) | Limit (dBm) |
|-------------------------------|--------------------------|-----------|-------------|
| Channel Position B<br>2110MHz | (NB) 250KHz, (L) 1.4 MHz | 3.3       | -19.02      |
|                               | (NB) 250KHz, (L) 5.0MHz  | 3.3       | -19.02      |
| Channel Position T<br>2180MHz | (NB) 250KHz, (L) 1.4 MHz | 3.3       | -19.02      |
|                               | (NB) 250KHz, (L) 5.0MHz  | 3.3       | -19.02      |

Port A , Channel Position B, LTE 1.4MHz

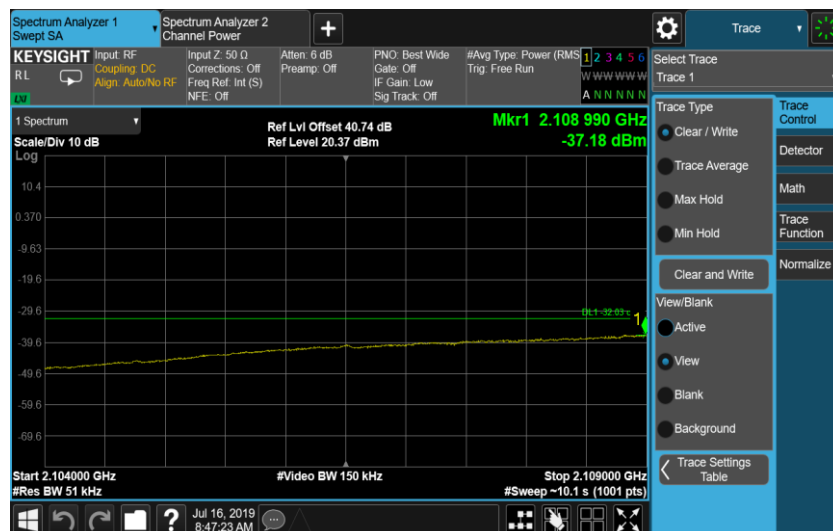
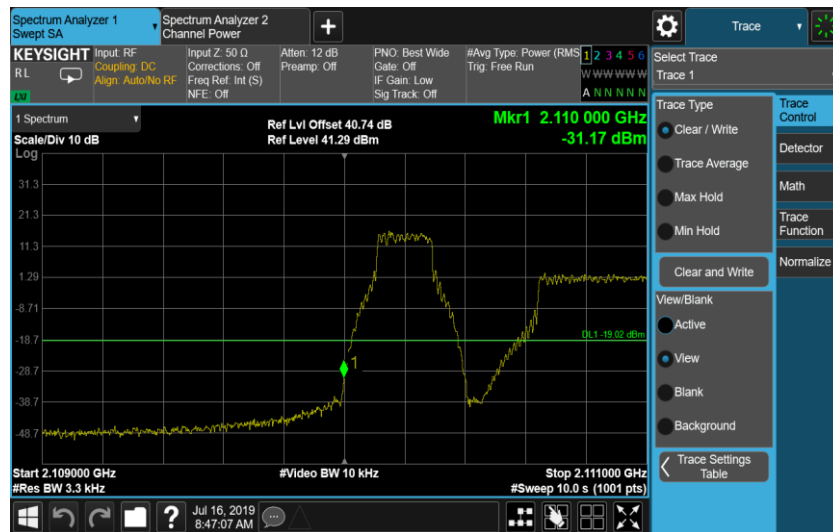




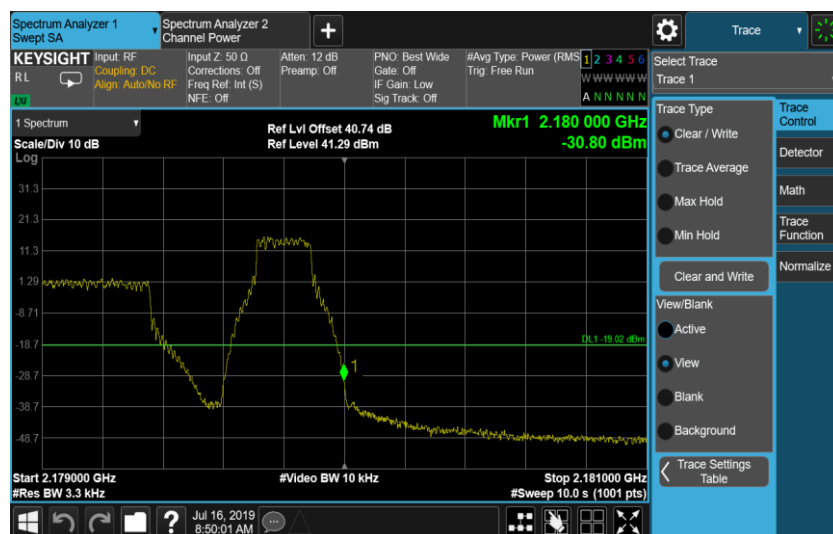
Port A , Channel Position T, LTE 1.4MHz

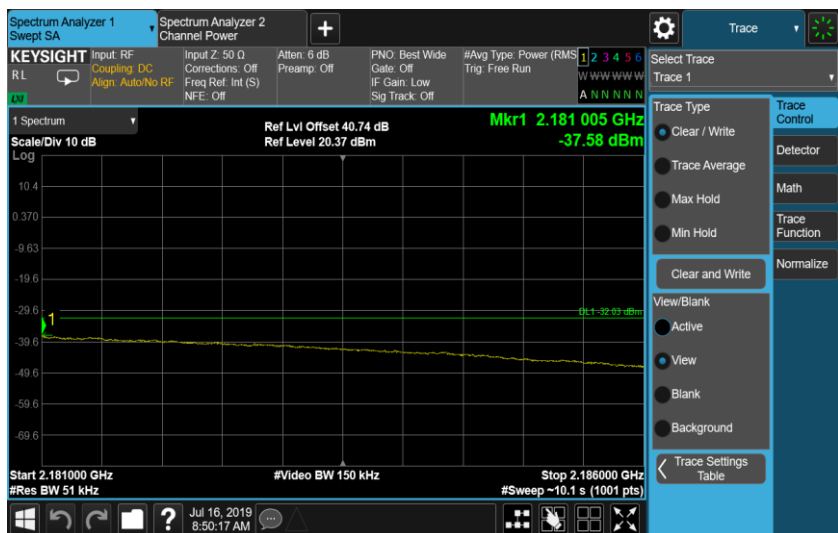


Port A , Channel Position B, LTE 5.0MHz



Port A , Channel Position T, LTE 5.0MHz

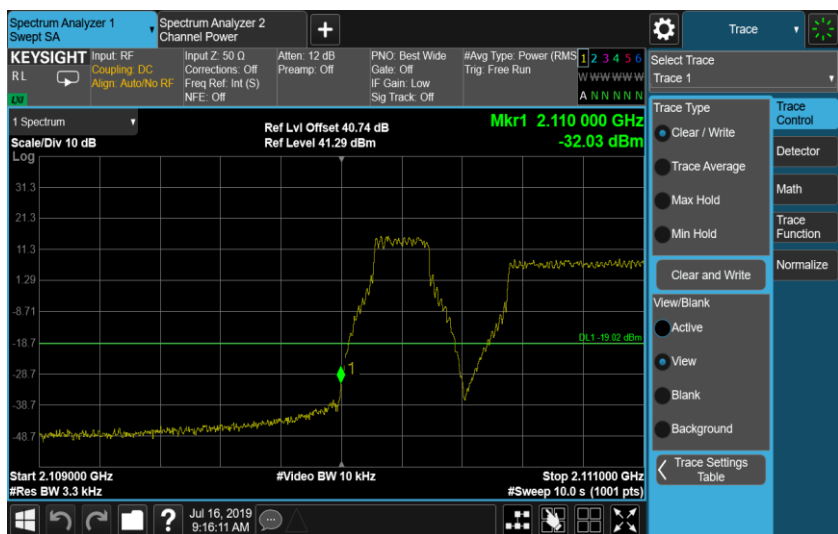


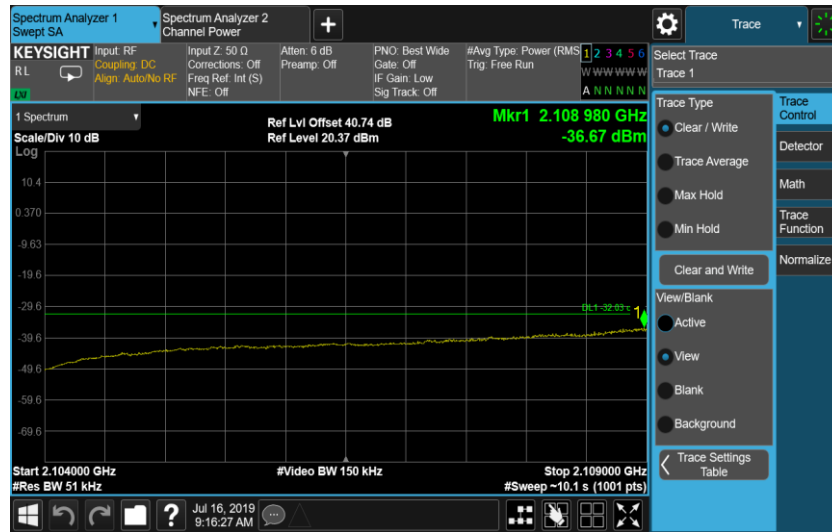


Configuration WCDMA+LTE+NB-IoT-MC-3-BE, (1WCDMA 16QAM +1LTE, QPSK+1SA, QPSK)

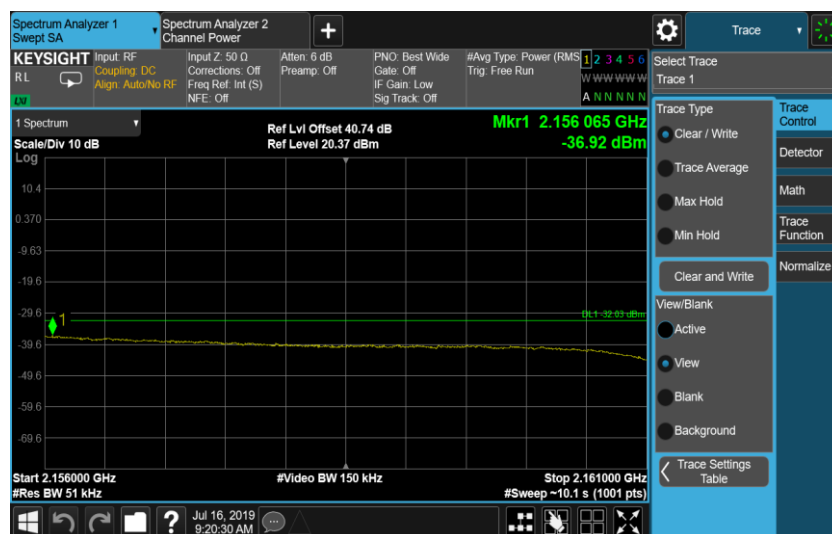
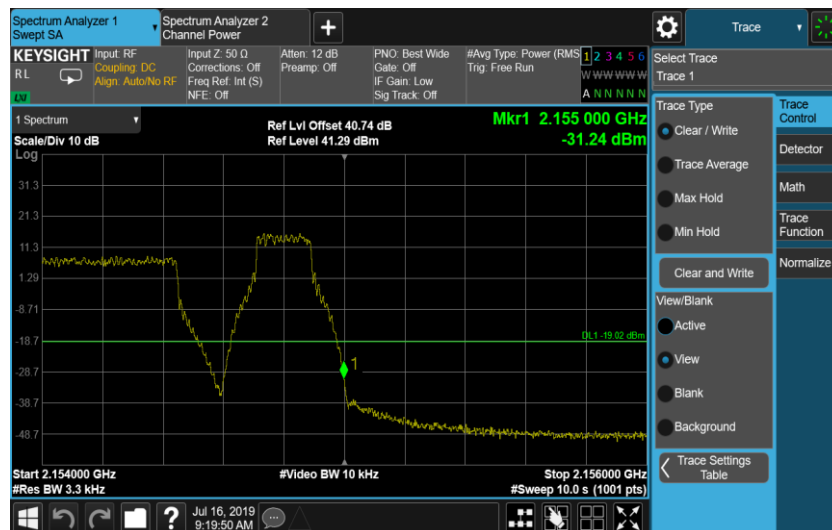
| Band Edge Frequency           | Channel Bandwidth                      | RBW (KHz) | Limit (dBm) |
|-------------------------------|----------------------------------------|-----------|-------------|
| Channel Position B<br>2110MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 1.4 MHz | 3.3       | -19.02      |
|                               | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz  | 3.3       | -19.02      |
| Channel Position T<br>2155MHz | (W) 5.0MHz, (L) 1.4 MHz                | 3.3       | -19.02      |
|                               | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz  | 3.3       | -19.02      |

Port A , Channel Position B, LTE 1.4MHz

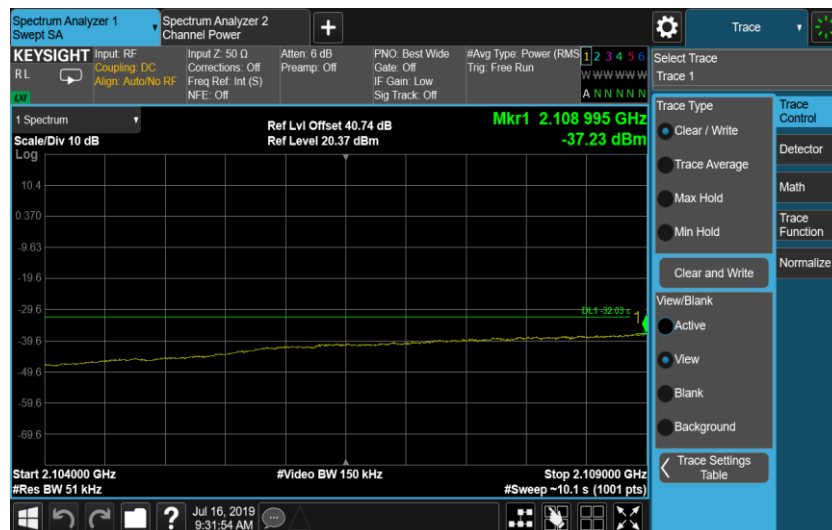
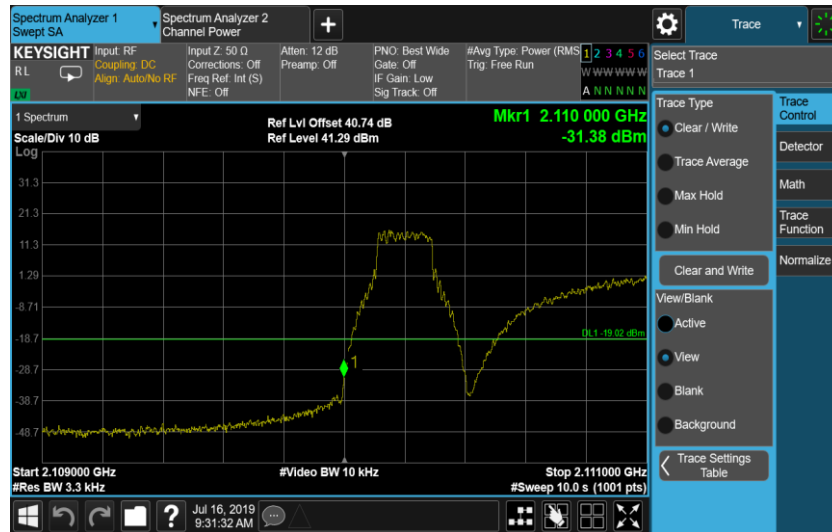




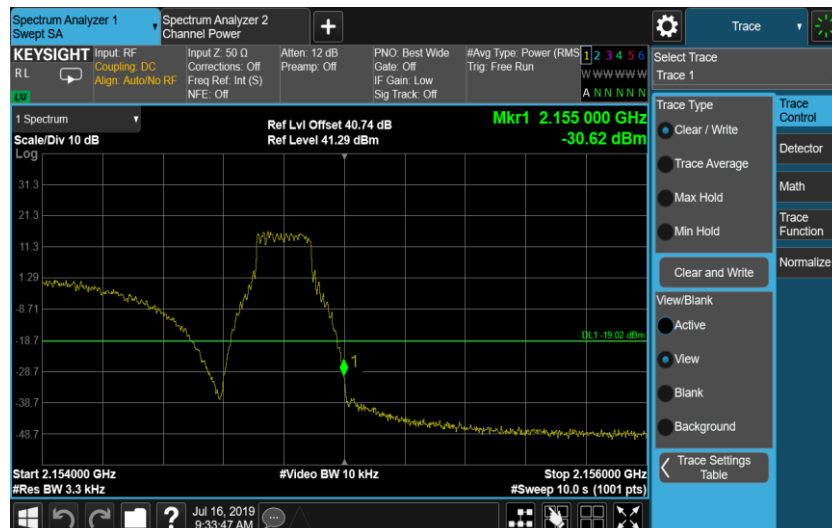
Port A , Channel Position T, LTE 1.4MHz

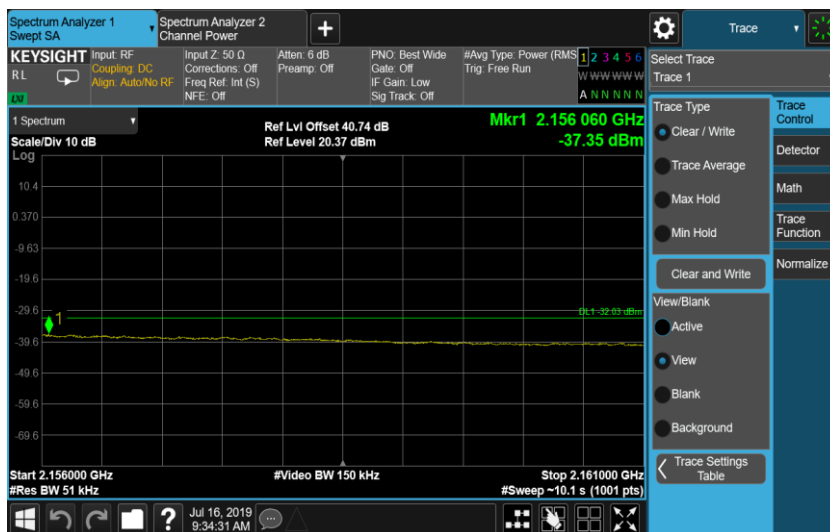


Port A , Channel Position B, LTE 5.0MHz



Port A , Channel Position T, LTE 5.0MHz

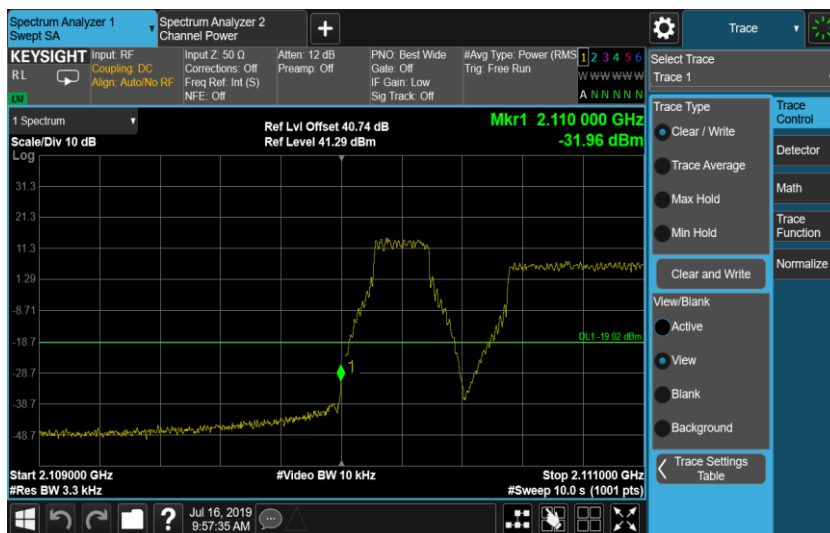




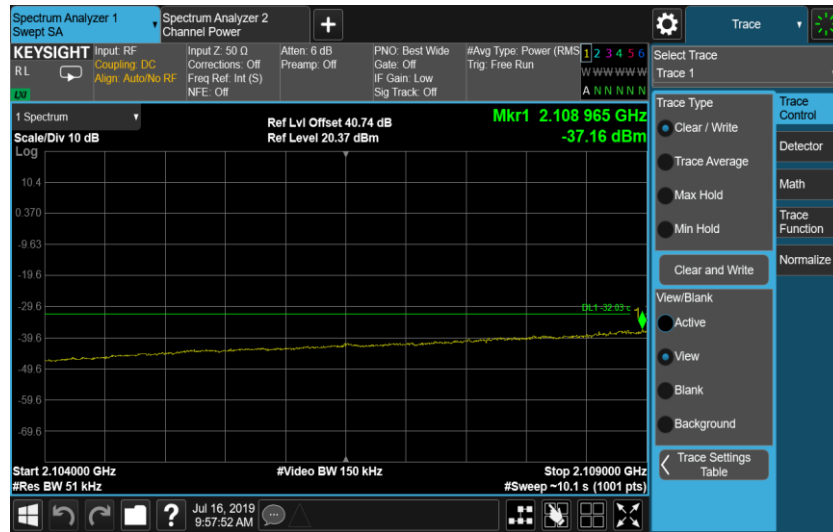
Configuration WCDMA+LTE+NB-IoT-MC-4-BE, (1WCDMA 16QAM +2LTE, QPSK+1SA, QPSK)

| Band Edge Frequency           | Channel Bandwidth       | RBW (KHz) | Limit (dBm) |
|-------------------------------|-------------------------|-----------|-------------|
| Channel Position B<br>2110MHz | (W) 5.0MHz, (L) 1.4 MHz | 3.3       | -19.02      |
| Channel Position T<br>2155MHz | (W) 5.0MHz, (L) 1.4 MHz | 3.3       | -19.02      |

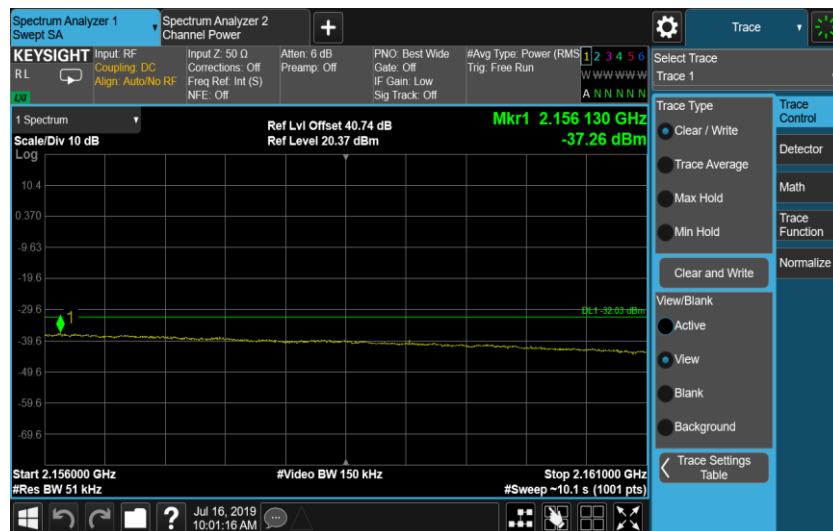
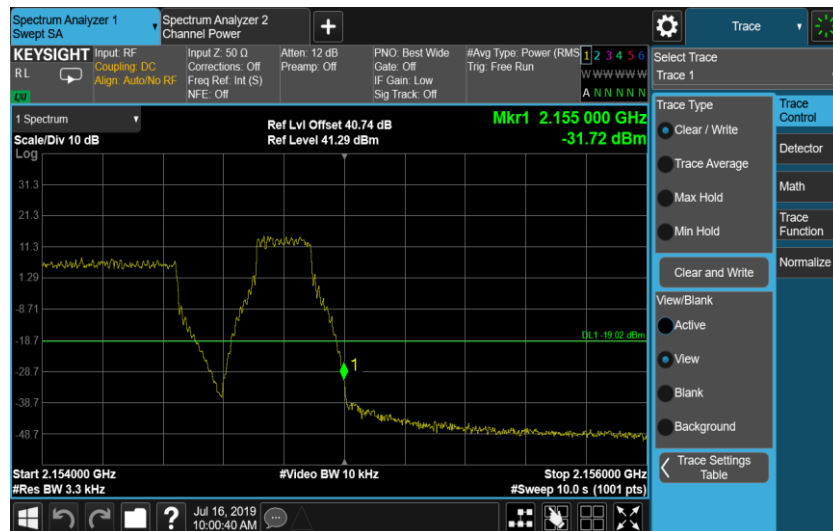
Port A , Channel Position B, LTE 1.4MHz







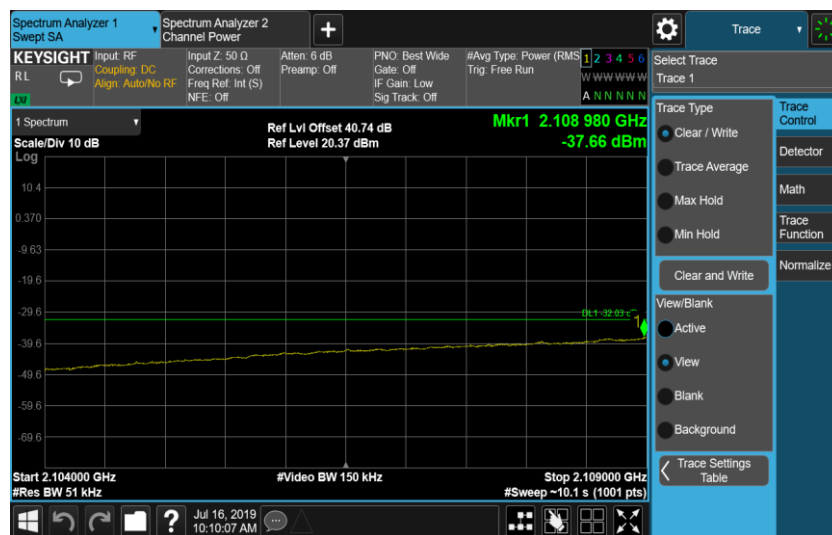
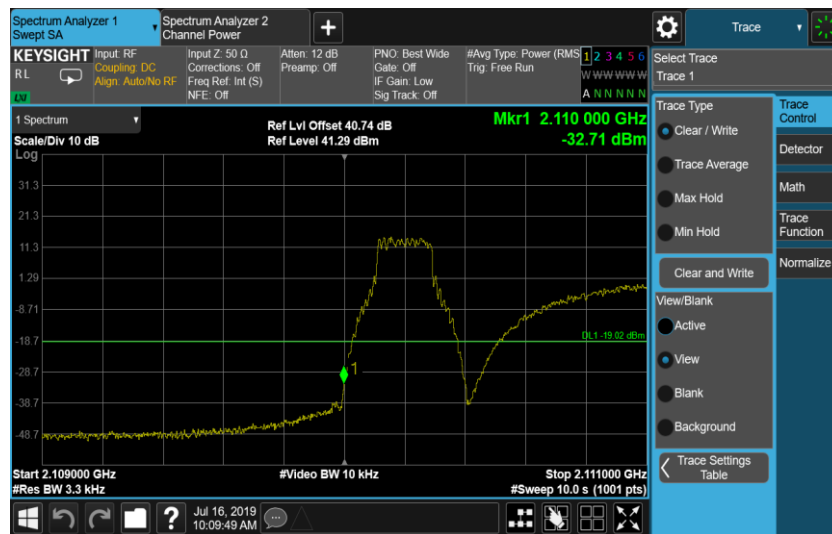
Port A , Channel Position T, LTE 1.4MHz



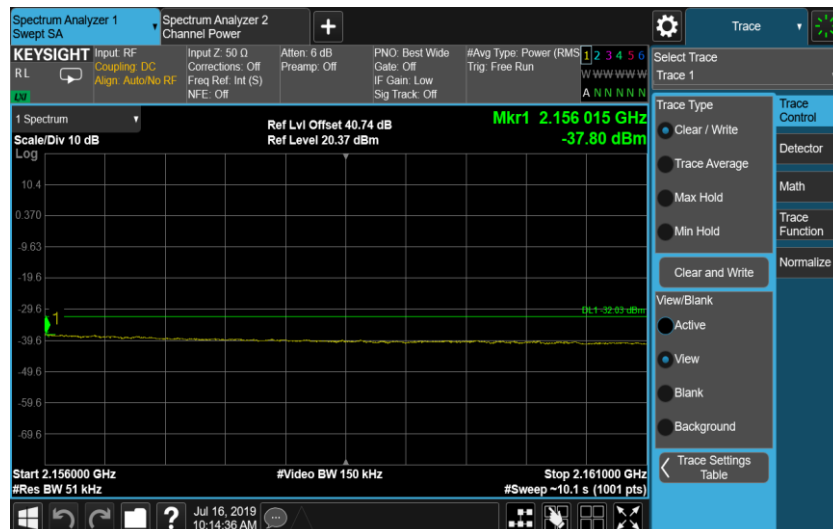
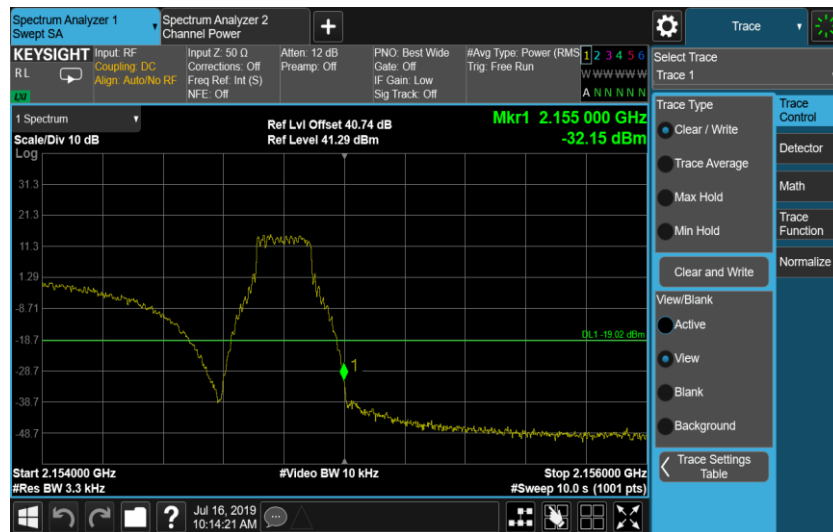
Configuration WCDMA+LTE+NB-IoT-MC-5-BE, (2WCDMA 16QAM +1LTE, QPSK+1SA, QPSK)

| Band Edge Frequency           | Channel Bandwidth                     | RBW (KHz) | Limit (dBm) |
|-------------------------------|---------------------------------------|-----------|-------------|
| Channel Position B<br>2110MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz | 3.3       | -19.02      |
| Channel Position T<br>2155MHz | (NB) 250KHz, (W) 5.0MHz<br>(L) 5.0MHz | 3.3       | -19.02      |

Port A , Channel Position B, LTE 5.0MHz



Port A , Channel Position T, LTE 5.0MHz



## **A.4 Conducted Spurious Emission**

### **A.4.1 Reference**

FCC CFR 47 Part 27, Clause 27.53(h)  
RSS-139, Clause 6.6

### **A.4.2 Method of measurement**

In accordance with FCC CFR 47 Part 24, Clause 24.238, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 3KHz to 20GHz. The resolution bandwidth of 1MHz was employed for frequency band 3KHz to 20GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [10Log4] by using the Measure and Add 10Log(N) dB technique according to FCC KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports RF A,B,C and D. Then the limit was adjust to -19.02dBm.

### **A.4.3 Measurement limit**

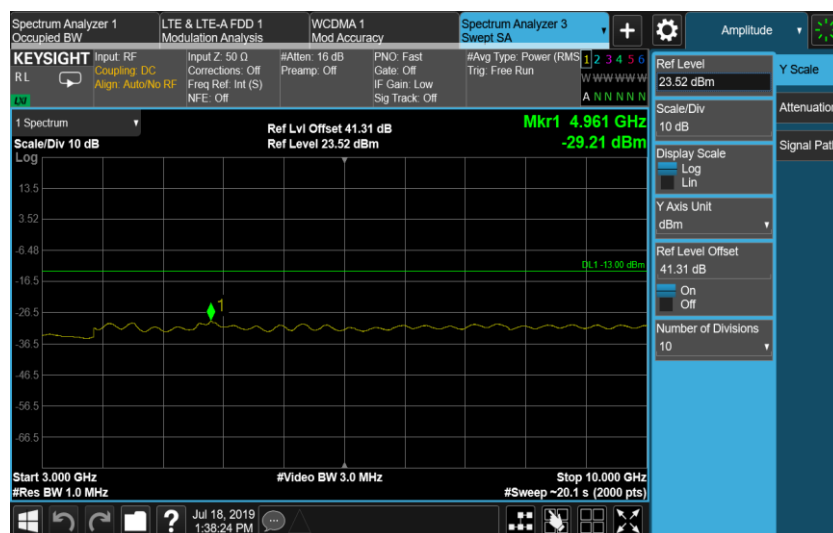
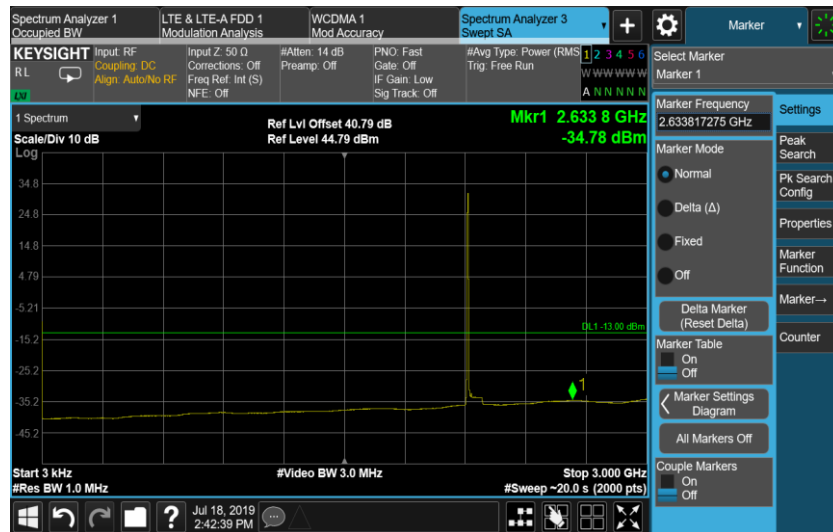
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

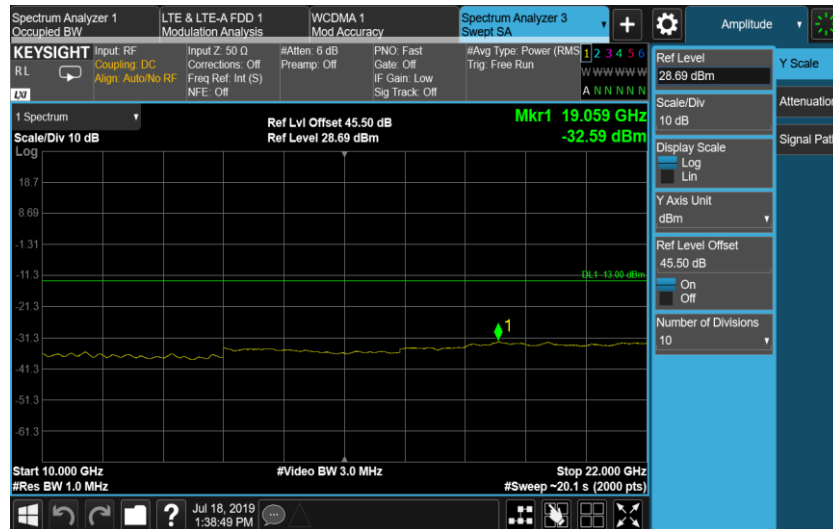
#### A.4.4 Measurement results

##### Configuration WCDMA-1C 16QAM

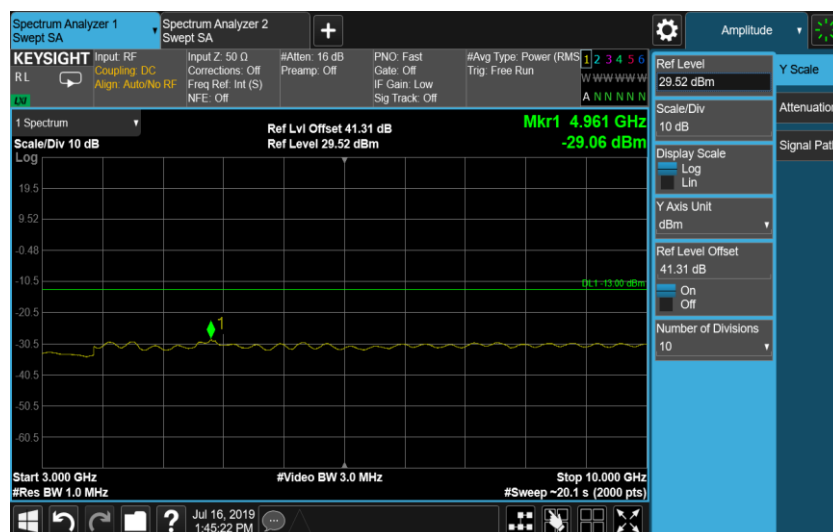
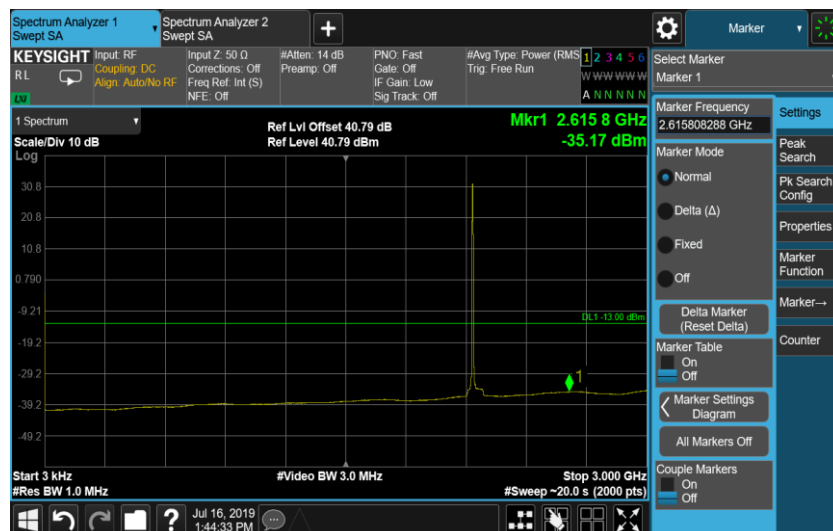
| Channel Bandwidth | RBW (MHz) | Limit (dBm) |
|-------------------|-----------|-------------|
| 5.0 MHz           | 1.0       | -13         |

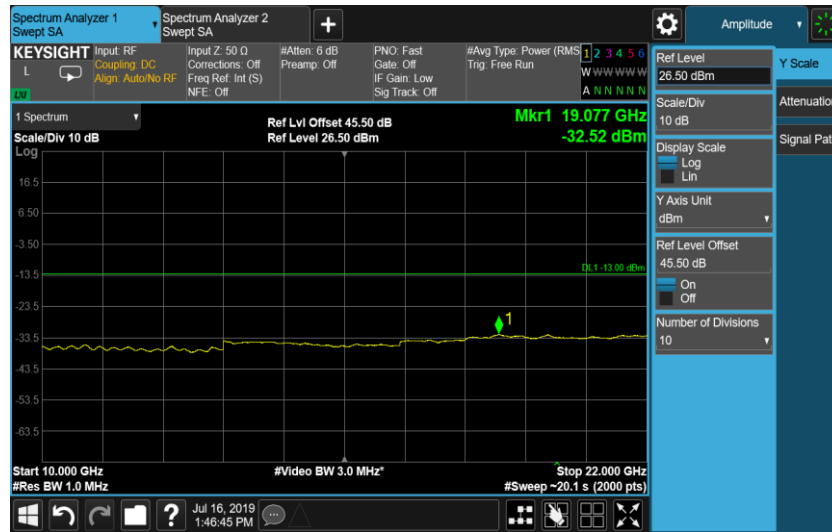
##### Port A, Channel Position B



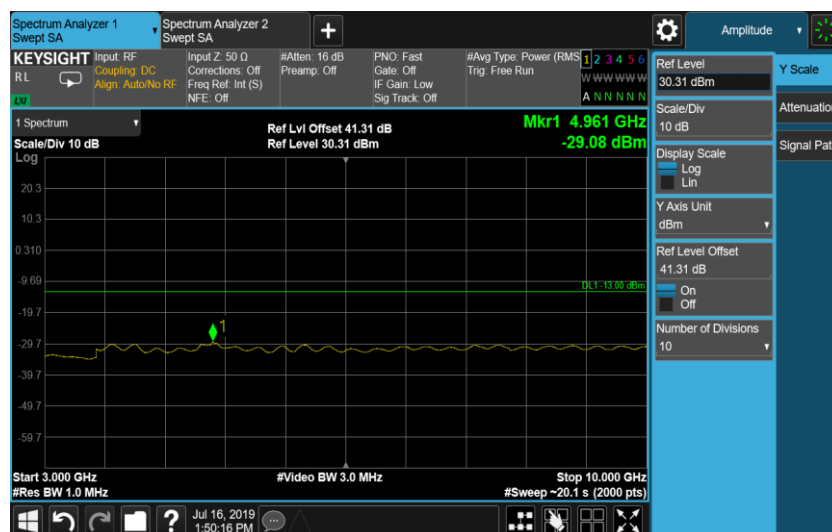
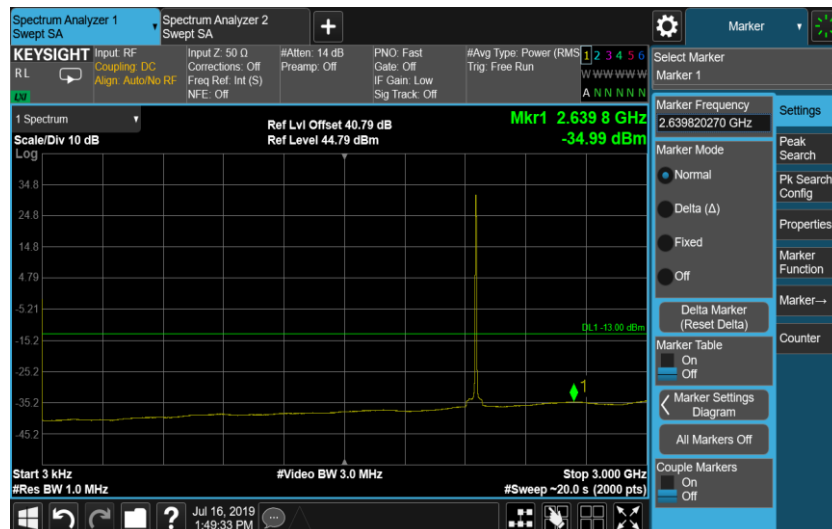


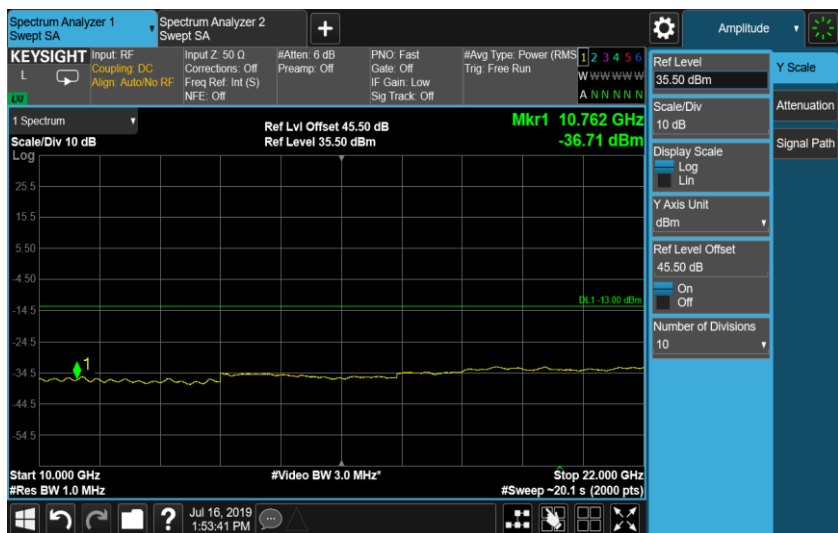
Port A, Channel Position M





Port A, Channel Position T

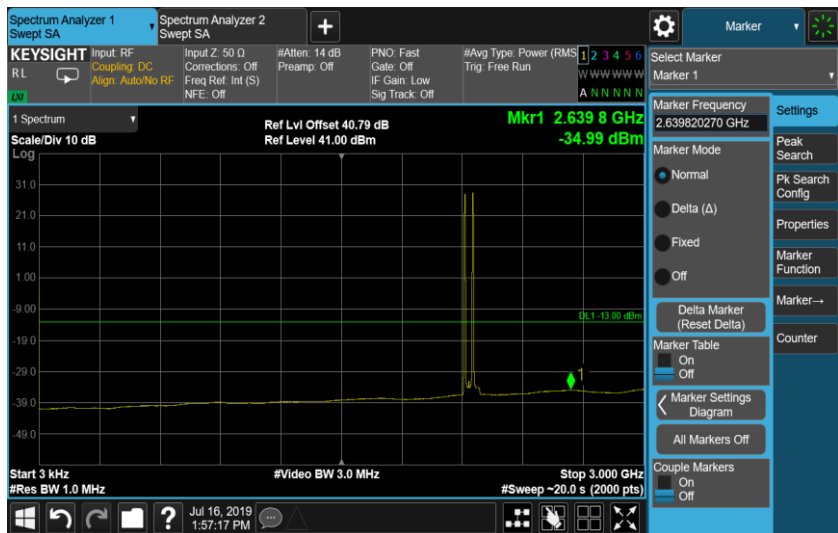




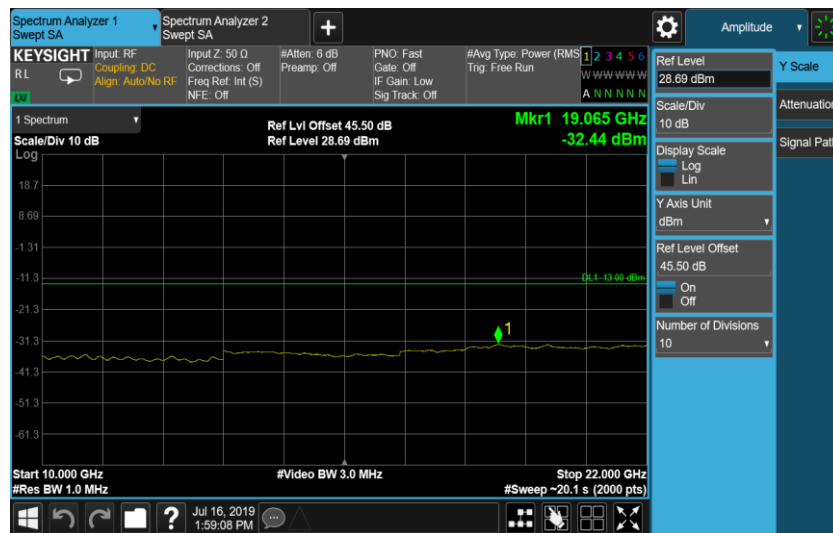
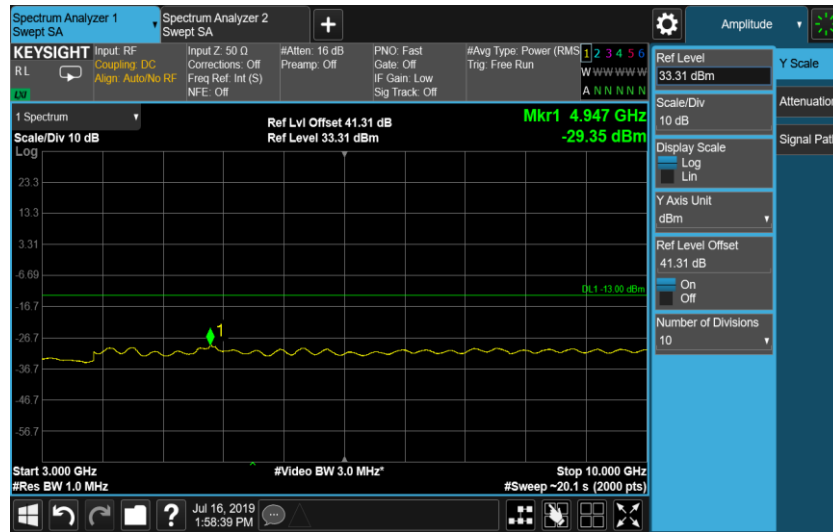
Configuration WCDMA-2C 16QAM

| Channel Bandwidth | RBW (MHz) | Limit (dBm) |
|-------------------|-----------|-------------|
| 5.0 MHz           | 1.0       | -13         |

Port A, Channel Position M



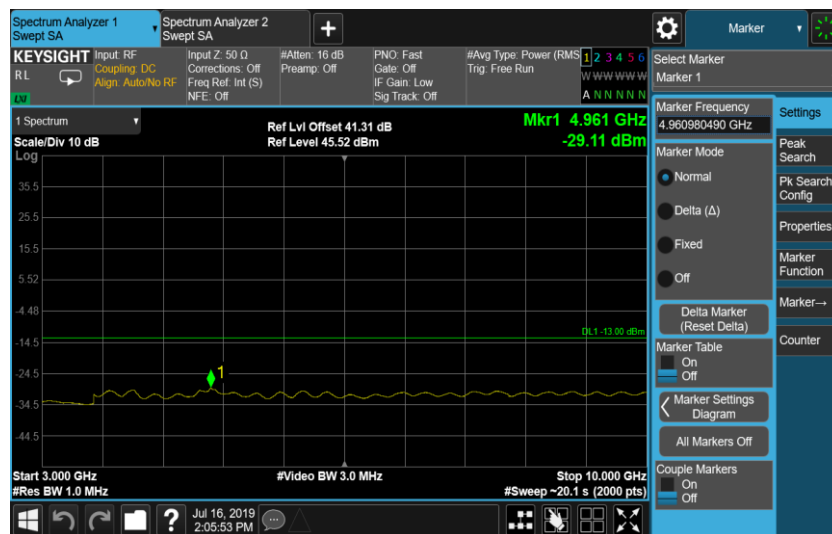
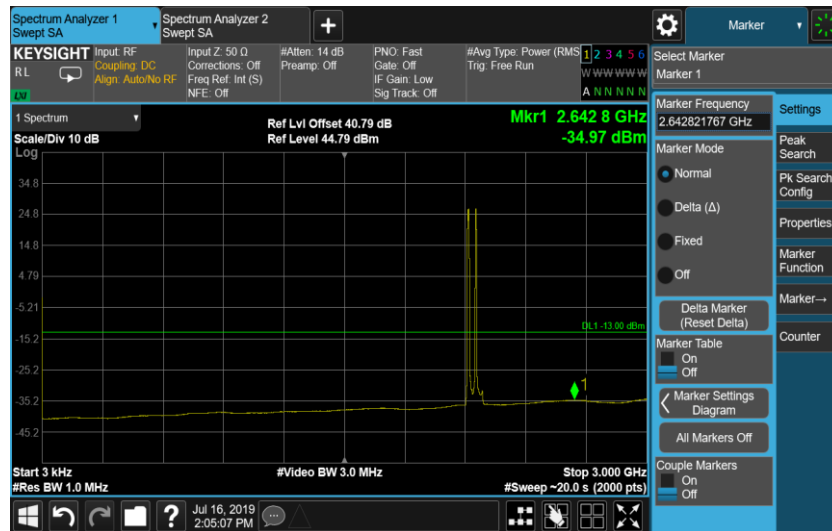




### Configuration WCDMA-3C 16QAM

| Channel Bandwidth | RBW (MHz) | Limit (dBm) |
|-------------------|-----------|-------------|
| 5.0 MHz           | 1.0       | -13         |

### Port A, Channel Position M





#### Configuration LTE-MIMO-1C QPSK

| Channel Bandwidth | RBW (MHz) | Limit (dBm) |
|-------------------|-----------|-------------|
| 1.4 MHz           | 1.0       | -19.02      |
| 3.0 MHz           | 1.0       | -19.02      |
| 5.0 MHz           | 1.0       | -19.02      |
| 10.0 MHz          | 1.0       | -19.02      |
| 15.0 MHz          | 1.0       | -19.02      |
| 20.0 MHz          | 1.0       | -19.02      |

Port A, Channel Position M 1.4 MHz

