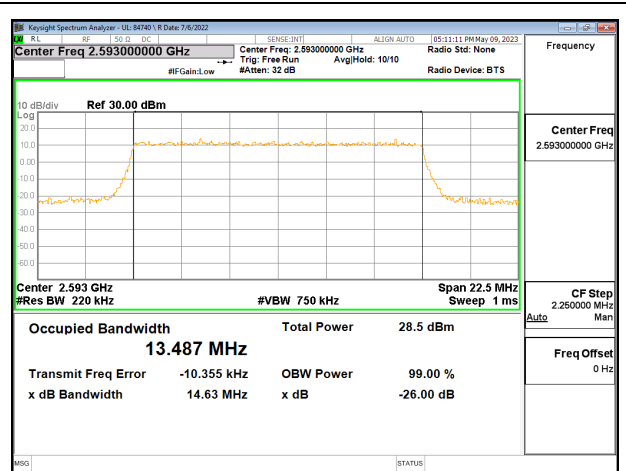
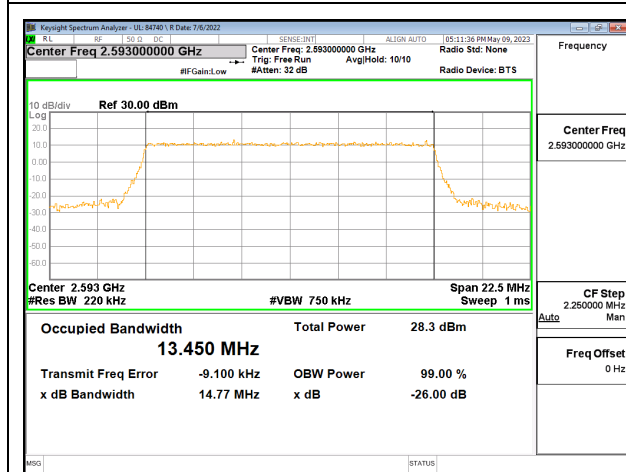


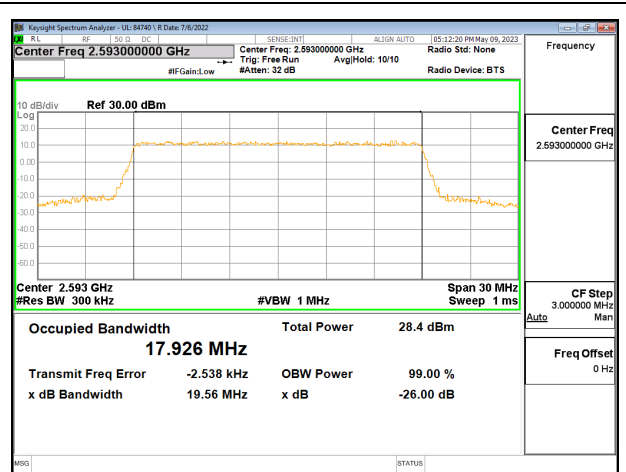
LTE41 15MHz QPSK MID Ch RB75-0



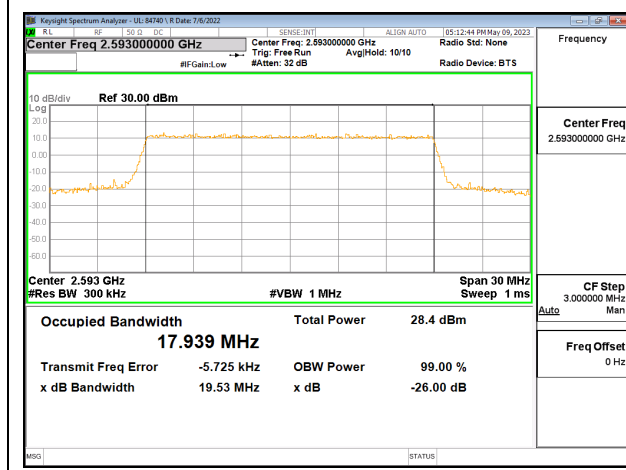
LTE41 15MHz 16QAM MID Ch RB75-0



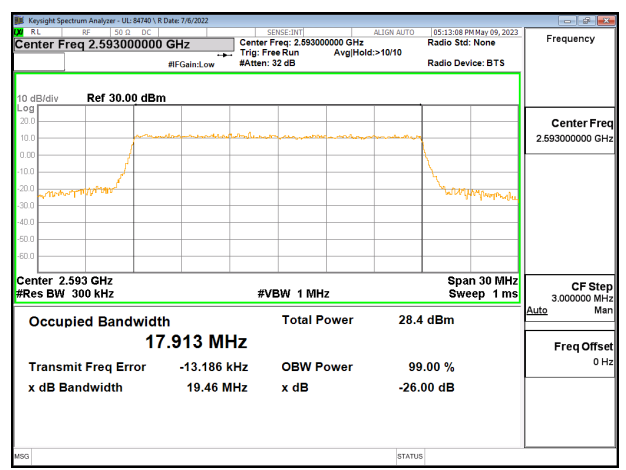
LTE41 15MHz 64QAM MID Ch RB75-0



LTE41 20MHz QPSK MID Ch RB100-0



LTE41 20MHz 16QAM MID Ch RB100-0

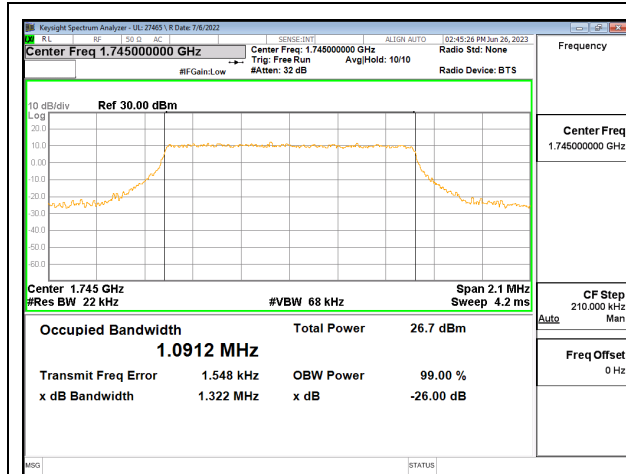


LTE41 20MHz 64QAM MID Ch RB100-0

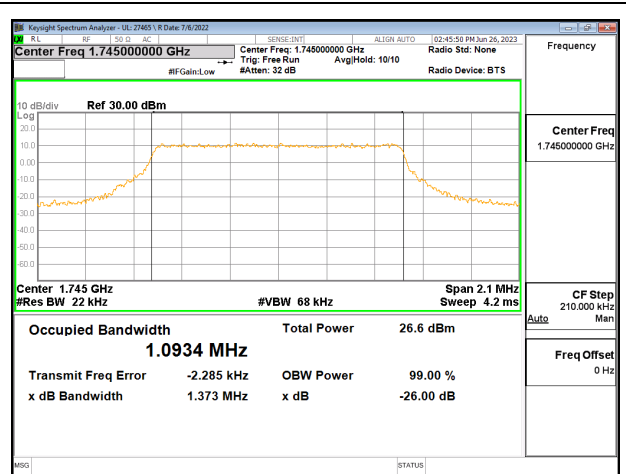
9.1.8. LTE66

| | | | | | |
|--------------------------|-------------|-------------------|--------------------------|---------------------------|------------|
| Test Engineer ID: | 27465/44389 | Test Date: | 2023-05-09 2023-06-26 | EUT Serial Number: | QV77008AG9 |
|--------------------------|-------------|-------------------|--------------------------|---------------------------|------------|

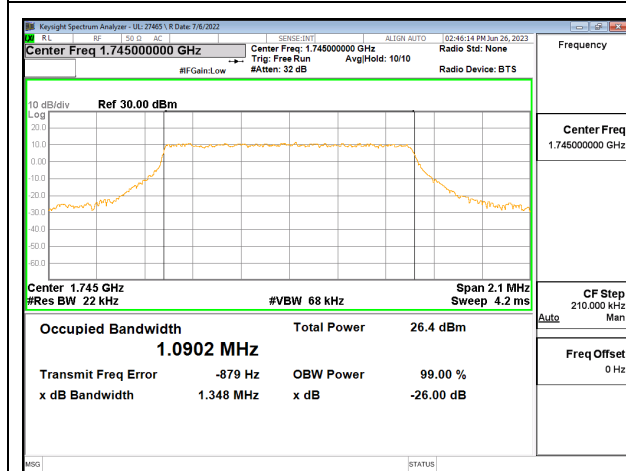
| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|-------------|---------------|-------------------------|--------|--------------|----------------|
| LTE BAND 66 | 1.4MHz, QPSK | 6/0 | 1745.0 | 1.091 | 1.322 |
| | 1.4MHz, 16QAM | | | 1.093 | 1.373 |
| | 1.4MHz, 64QAM | | | 1.090 | 1.348 |
| | 3MHz, QPSK | 15/0 | | 2.708 | 3.031 |
| | 3MHz, 16QAM | | | 2.710 | 3.032 |
| | 3MHz, 64QAM | | | 2.701 | 3.032 |
| | 5MHz, QPSK | 25/0 | | 4.510 | 5.093 |
| | 5MHz, 16QAM | | | 4.505 | 5.098 |
| | 5MHz, 64QAM | | | 4.499 | 5.075 |
| | 10MHz, QPSK | 50/0 | | 8.975 | 9.937 |
| | 10MHz, 16QAM | | | 8.991 | 9.923 |
| | 10MHz, 64QAM | | | 8.985 | 9.926 |
| | 15MHz, QPSK | 75/0 | | 13.482 | 14.85 |
| | 15MHz, 16QAM | | | 13.471 | 14.86 |
| | 15MHz, 64QAM | | | 13.45 | 14.92 |
| | 20MHz, QPSK | 100/0 | | 17.954 | 18.88 |
| | 20MHz, 16QAM | | | 17.982 | 19.46 |
| | 20MHz, 64QAM | | | 17.941 | 19.71 |



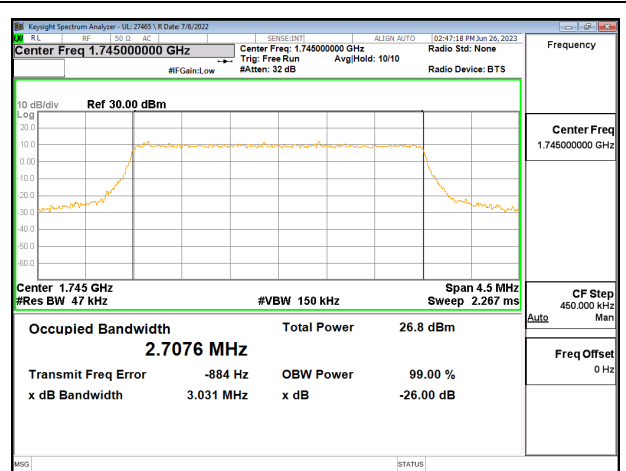
LTE66 1.4MHz QPSK MID Ch RB15-0



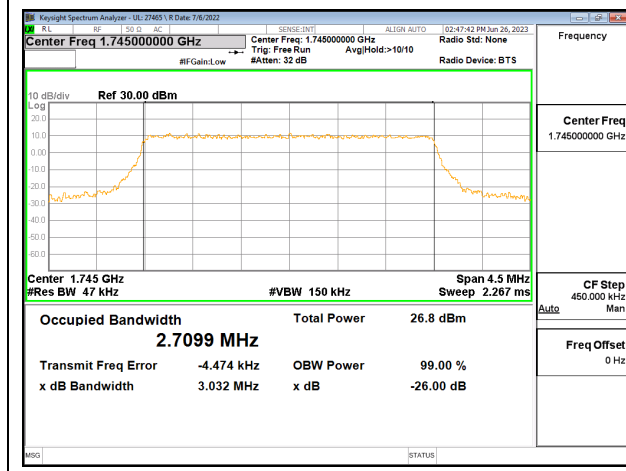
LTE66 1.4MHz 16QAM MID Ch RB15-0



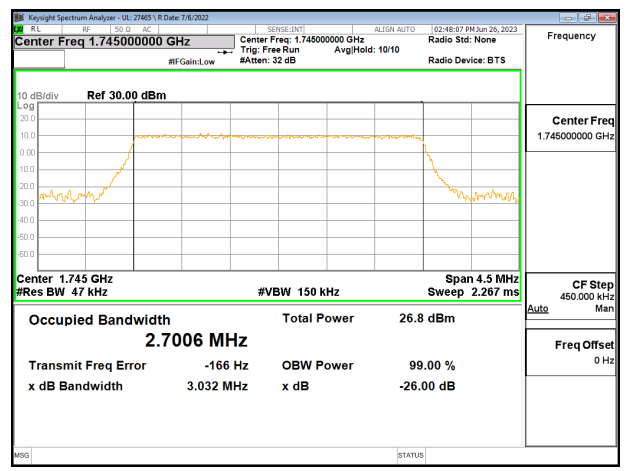
LTE66 1.4MHz 64QAM MID Ch RB15-0



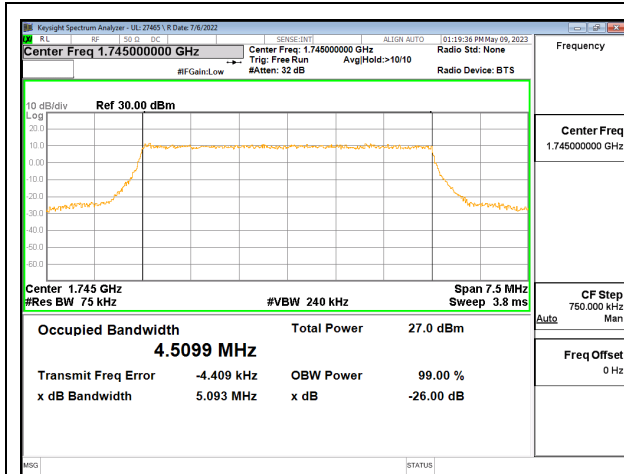
LTE66 3MHz QPSK MID Ch RB6-0



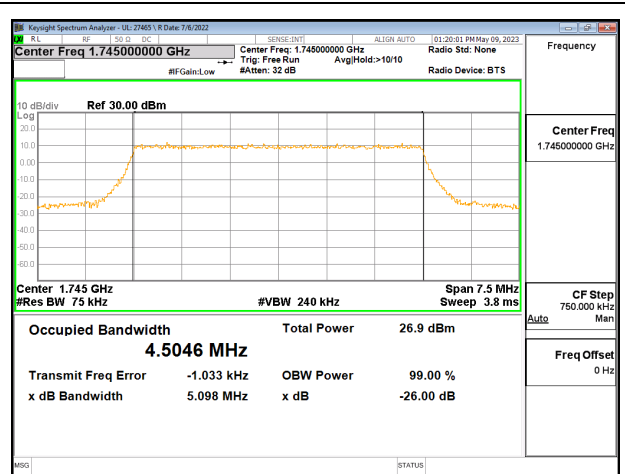
LTE66 3MHz 16QAM MID Ch RB6-0



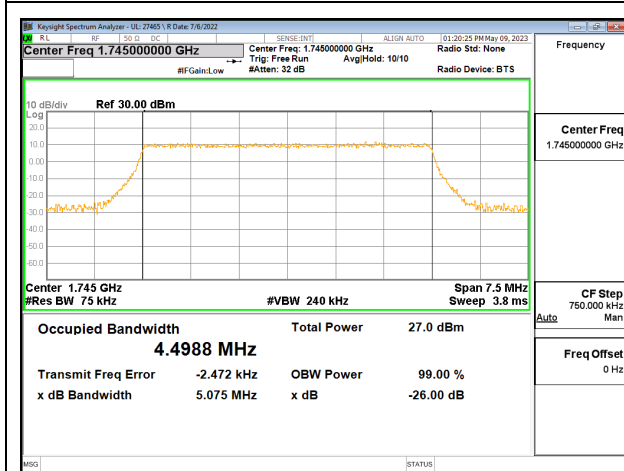
LTE66 3MHz 64QAM MID Ch RB6-0



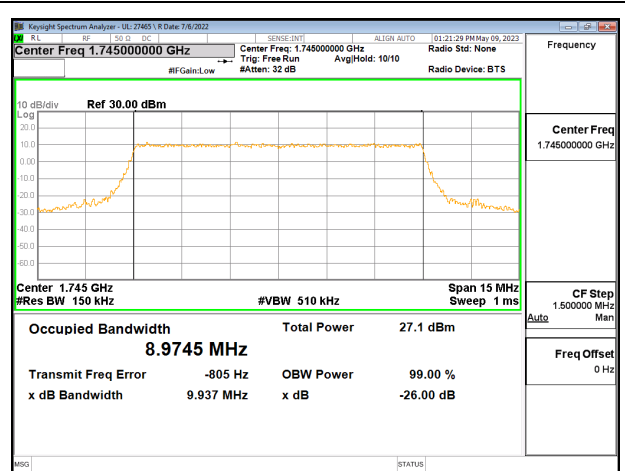
LTE66 5MHz QPSK MID Ch RB50-0



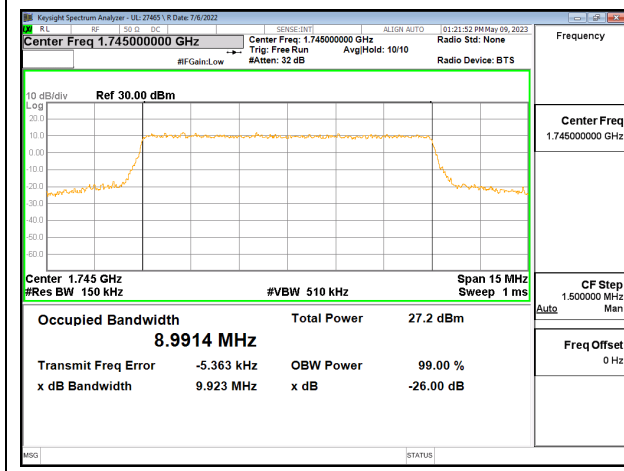
LTE66 5MHz 16QAM MID Ch RB50-0



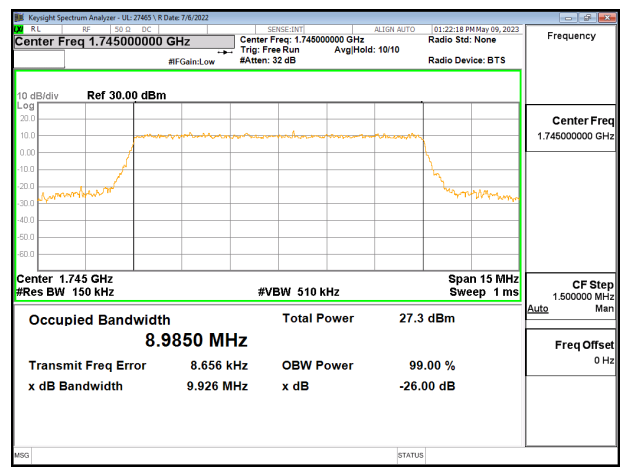
LTE66 5MHz 64QAM MID Ch RB50-0



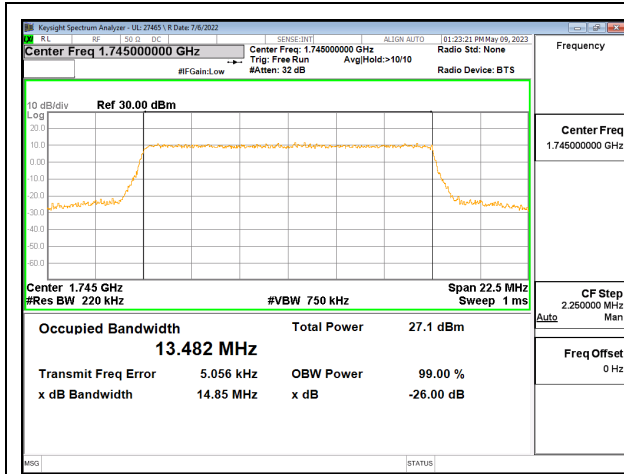
LTE66 10MHz QPSK MID Ch RB25-0



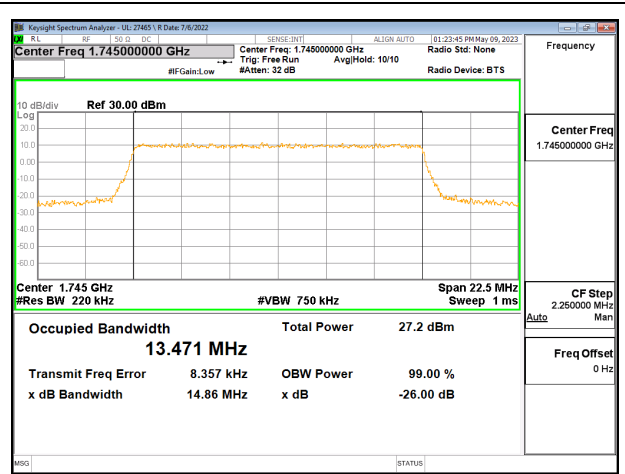
LTE66 10MHz 16QAM MID Ch RB25-0



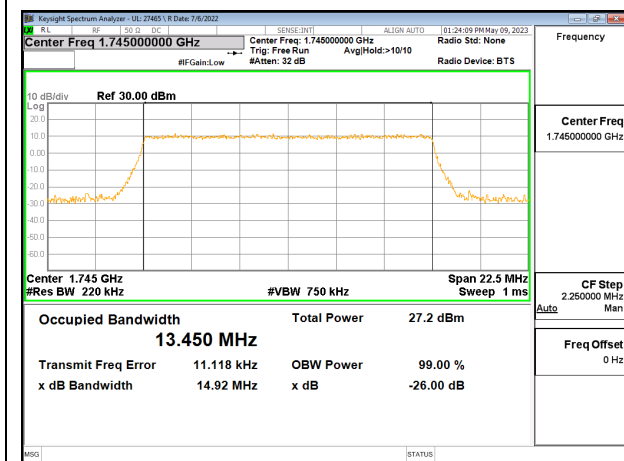
LTE66 10MHz 64QAM MID Ch RB25-0



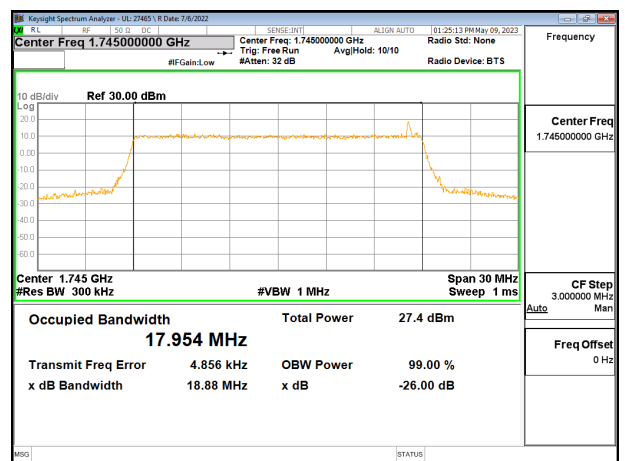
LTE66 15MHz QPSK MID Ch RB100-0



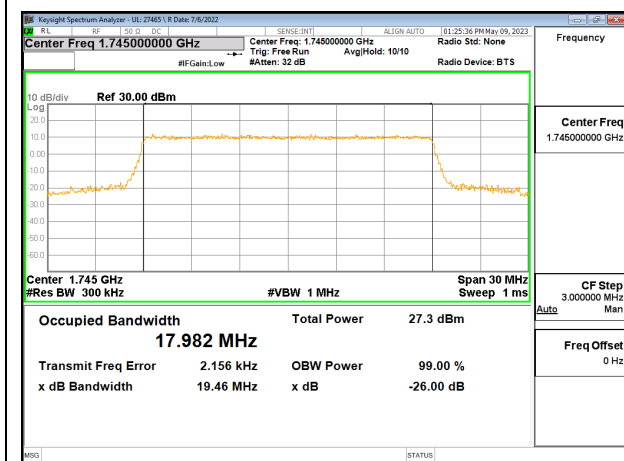
LTE66 15MHz 16QAM MID Ch RB100-0



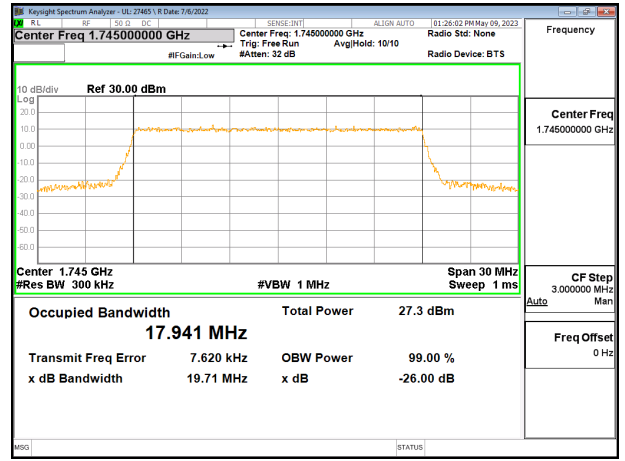
LTE66 15MHz 64QAM MID Ch RB100-0



LTE66 20MHz QPSK MID Ch RB75-0



LTE66 20MHz 16QAM MID Ch RB75-0



LTE66 20MHz 64QAM MID Ch RB75-0

9.2. OUT OF BAND EMISSIONS

LIMITS

FCC: §22.917, §24.238, §27.53 (g), §27.53 (m), §27.53(h)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

FCC: §27.53 (c), (f)

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts. The band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotopically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 9.1.6 confirms a compliance for the emissions in GPS 1559 - 1610 MHz band were wideband emissions therefore the -40 dBm / MHz limit was used.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

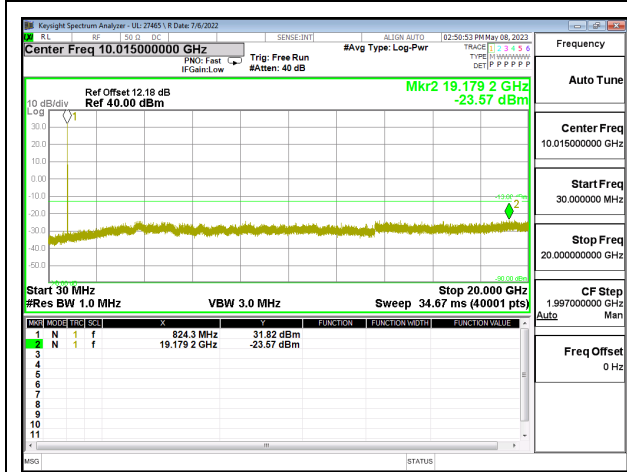
- (i) Set display line at -13 dBm, -25 dBm according to the band Limit
- (ii) Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz. (NOTE: Worst case set RBW/VBW to 1MHz/3MHz)

RESULTS

Note: Only Worst Case mode is reported.

9.2.1. GSM GSM850

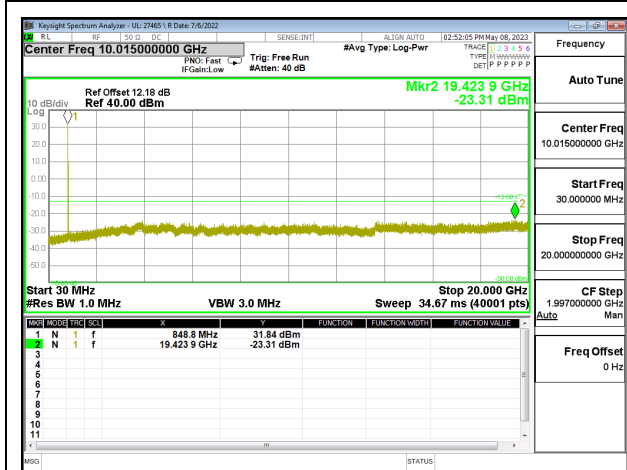
| | | | | | |
|-------------------|-------------|------------|------------|--------------------|------------|
| Test Engineer ID: | 27465/44389 | Test Date: | 2023-05-08 | EUT Serial Number: | QV77002SG9 |
|-------------------|-------------|------------|------------|--------------------|------------|



GSM850 GPRS LOW Channel



GSM850 GPRS MID Channel

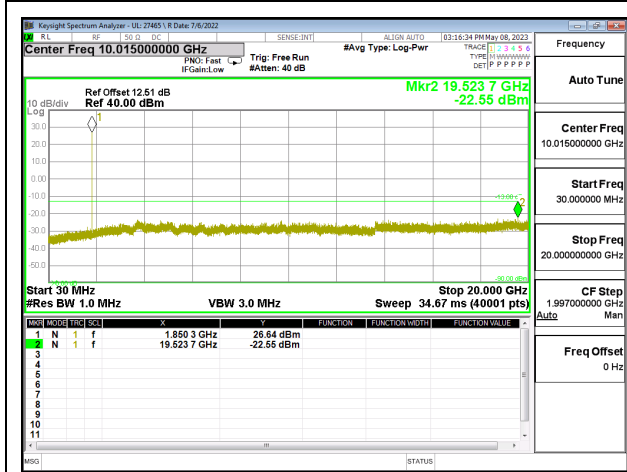


GSM850 GPRS HIGH Channel

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9.2.2. GSM GSM1900

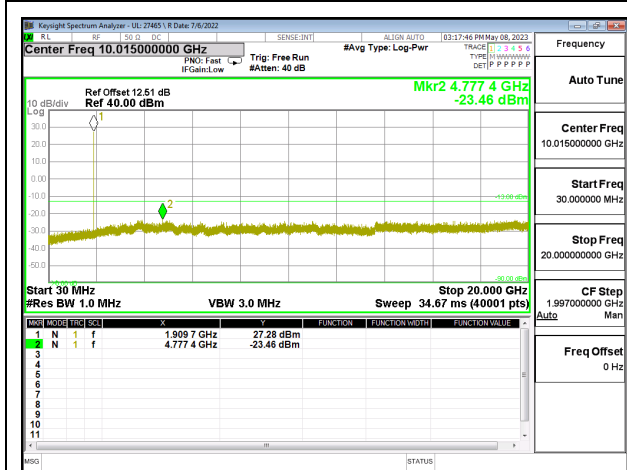
| | | | | | |
|-------------------|-------------|------------|------------|--------------------|------------|
| Test Engineer ID: | 27465/44389 | Test Date: | 2023-05-08 | EUT Serial Number: | QV77002SG9 |
|-------------------|-------------|------------|------------|--------------------|------------|



GSM1900 GPRS LOW Channel



GSM1900 GPRS MID Channel

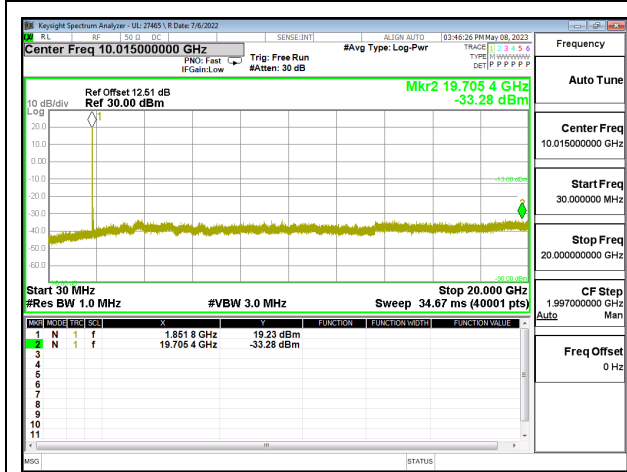


GSM1900 GPRS HIGH Channel

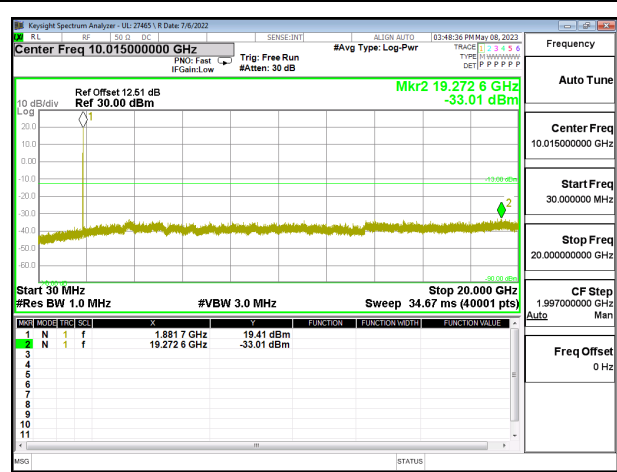
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9.2.3. WCDMA BAND 2

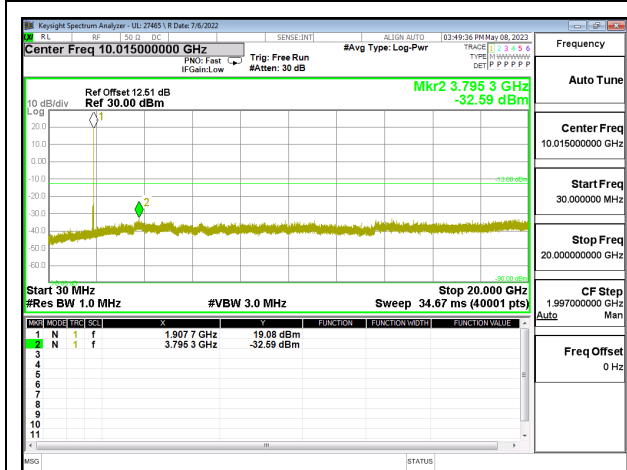
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|-------------------|-------------|------------|------------|--------------------|------------|
| Test Engineer ID: | 27465/44389 | Test Date: | 2023-05-08 | EUT Serial Number: | QV77002SG9 |
|-------------------|-------------|------------|------------|--------------------|------------|



BAND 2 Rel 99 LOW Channel



BAND 2 Rel 99 MID Channel

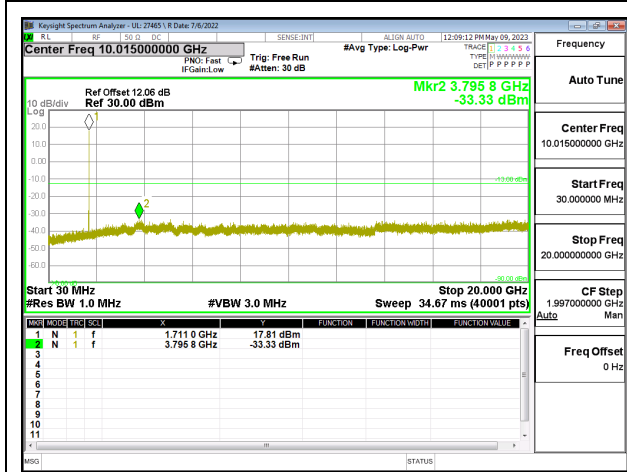


BAND 2 Rel 99 HIGH Channel

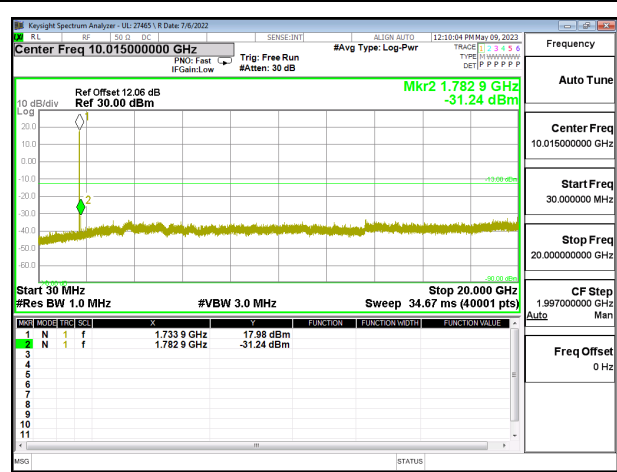
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9.2.4. WCDMA BAND 4

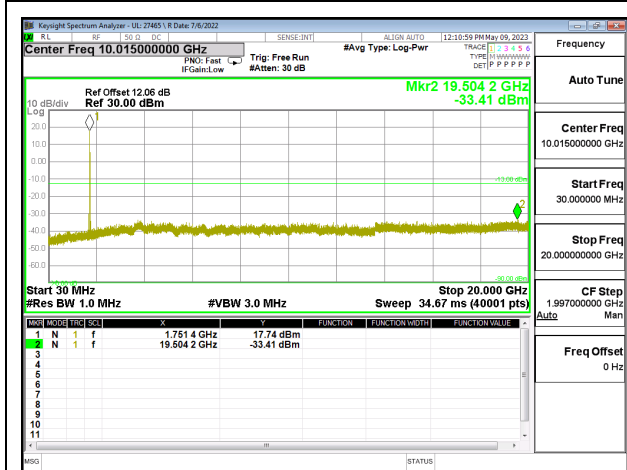
| | | | | | |
|-------------------|-------------|------------|------------|--------------------|------------|
| Test Engineer ID: | 27465/44389 | Test Date: | 2023-05-09 | EUT Serial Number: | QV77002SG9 |
|-------------------|-------------|------------|------------|--------------------|------------|



BAND 4 Rel 99 LOW Channel



BAND 4 Rel 99 MID Channel

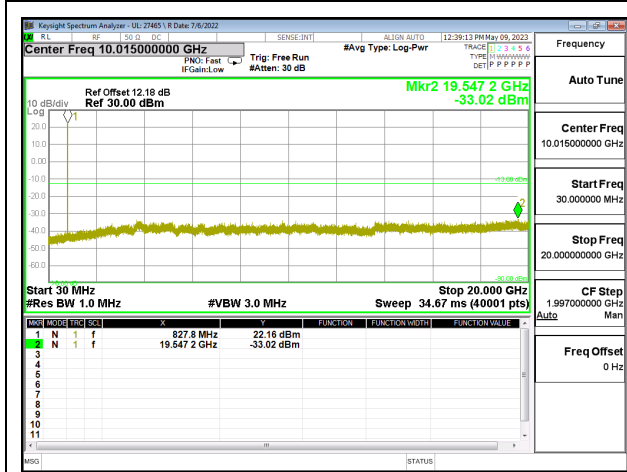


BAND 4 Rel 99 HIGH Channel

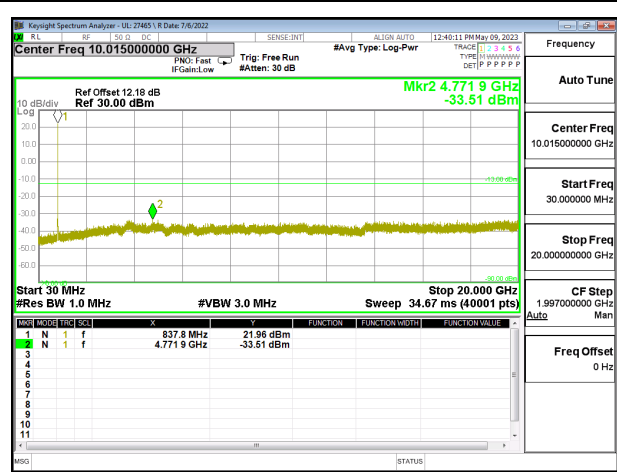
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9.2.5. WCDMA BAND 5

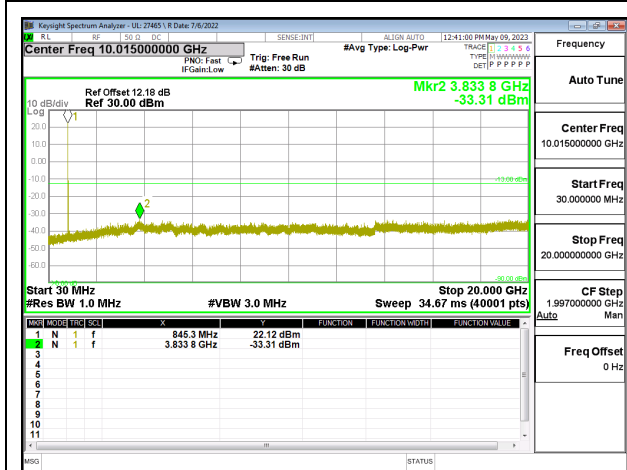
| | | | | | |
|-------------------|-------------|------------|------------|--------------------|------------|
| Test Engineer ID: | 27465/44389 | Test Date: | 2023-05-08 | EUT Serial Number: | QV77002SG9 |
|-------------------|-------------|------------|------------|--------------------|------------|



BAND 5 Rel 99 LOW Channel



BAND 5 Rel 99 MID Channel

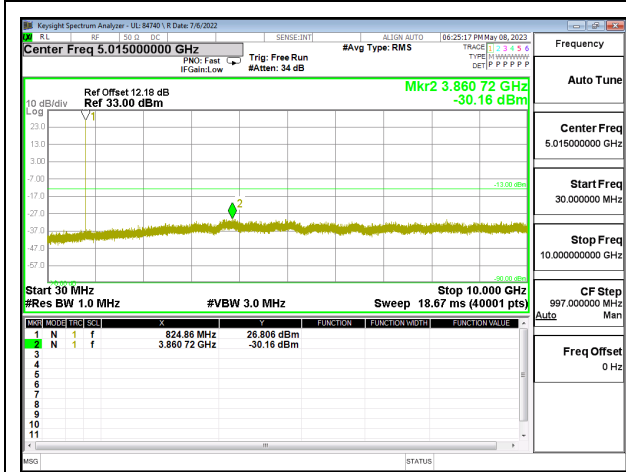


BAND 5 Rel 99 HIGH Channel

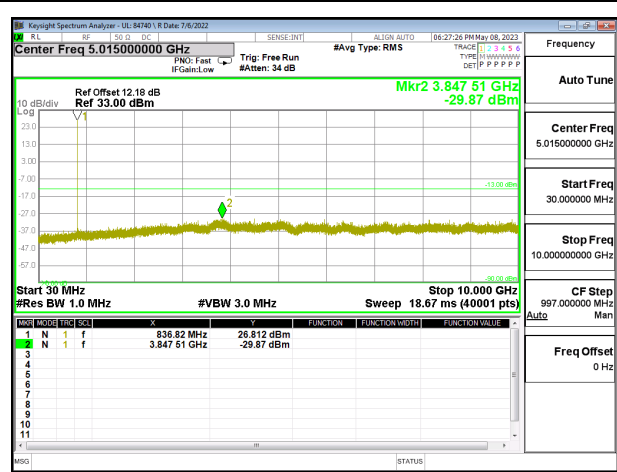
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9.2.6. LTE5

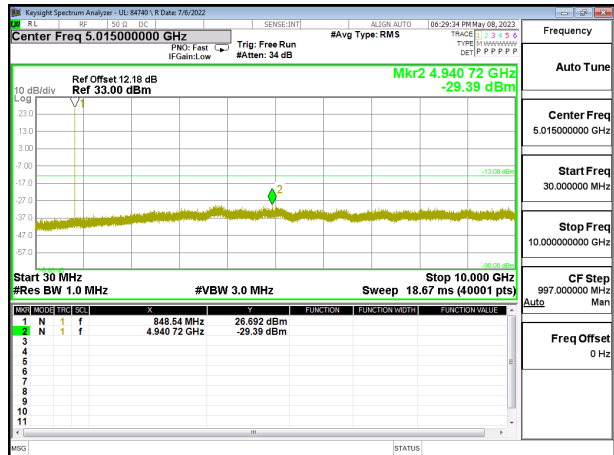
Test Engineer ID: 84740/44389 Test Date: 2023-05-08 EUT Serial Number: QV77007YG9



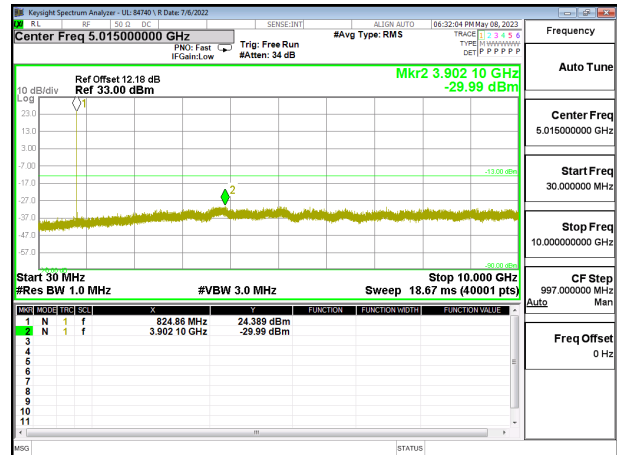
LTE5 1.4MHz 64QAM LOW Ch RB6-0



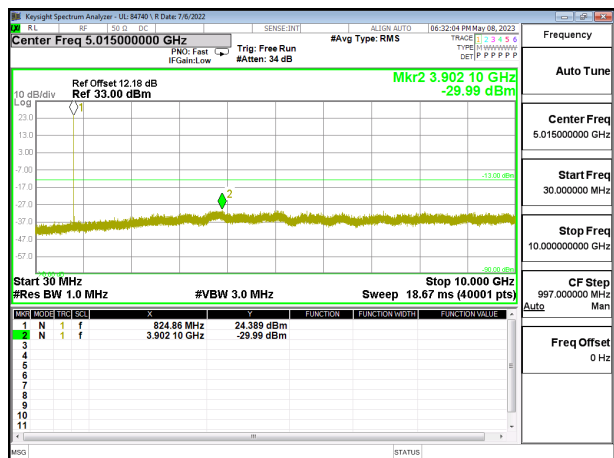
LTE5 1.4MHz 64QAM MID Ch RB6-0



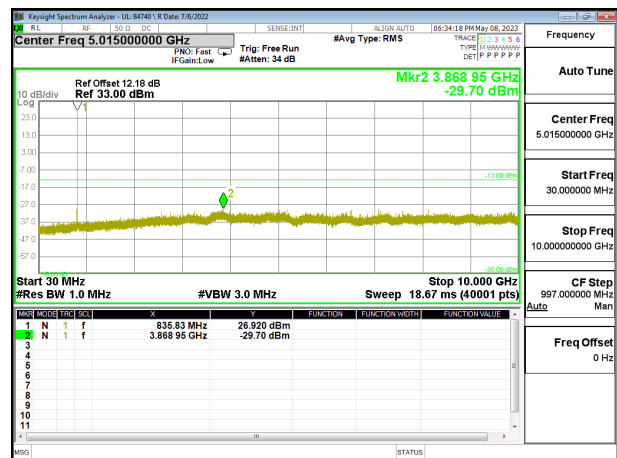
LTE5 1.4MHz 64QAM HIGH Ch RB6-0



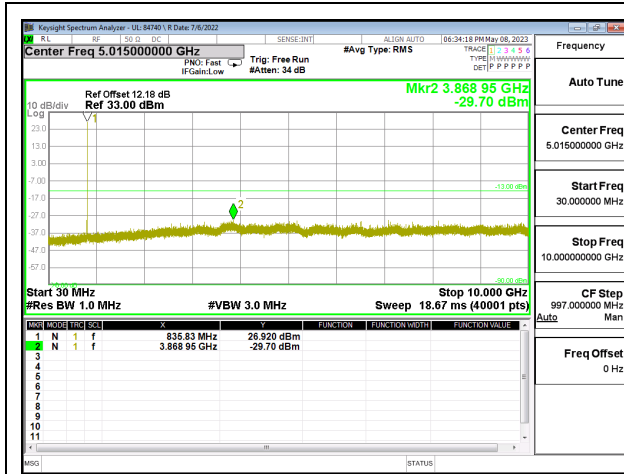
LTE5 3MHz 64QAM LOW Ch RB15-0



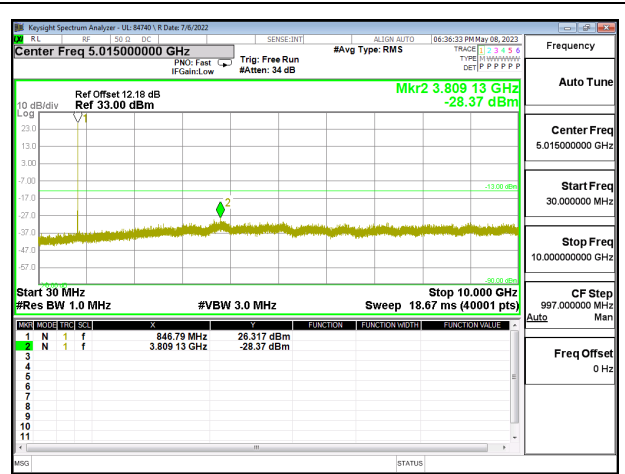
LTE5 3MHz 64QAM LOW Ch RB1-0



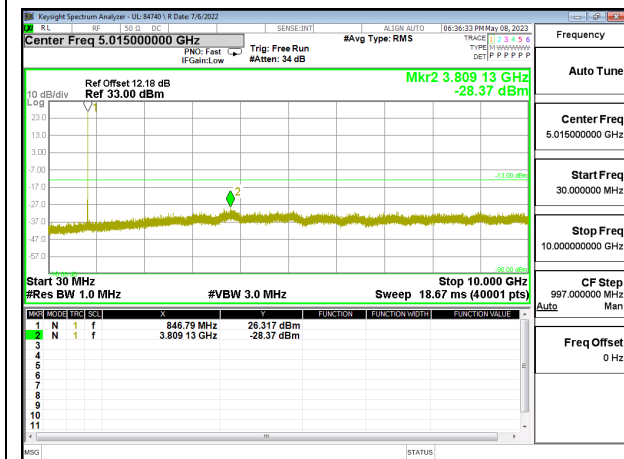
LTE5 3MHz 64QAM MID Ch RB15-0



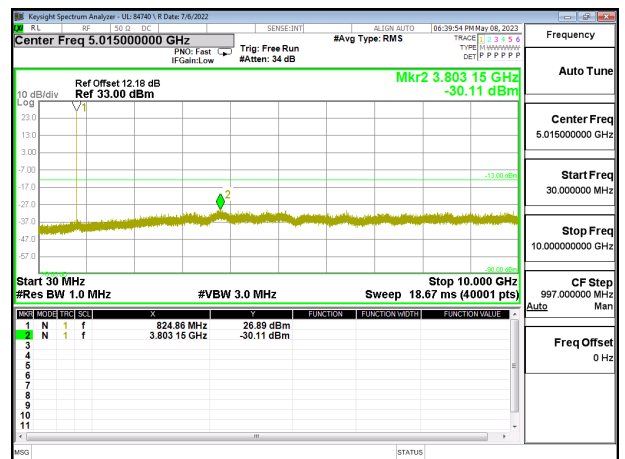
LTE5 3MHz 64QAM MID Ch RB1-0



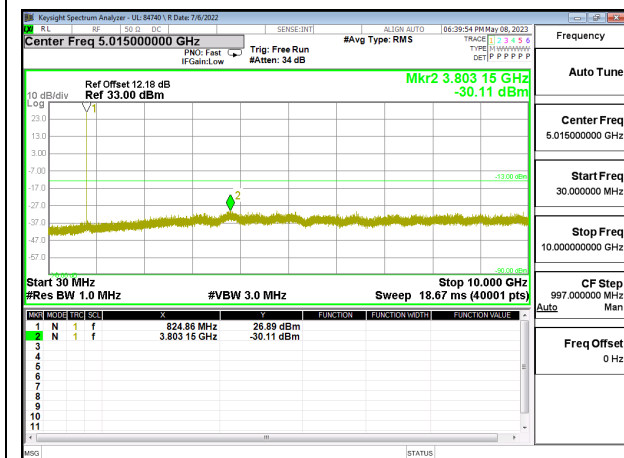
LTE5 3MHz 64QAM HIGH Ch RB15-0



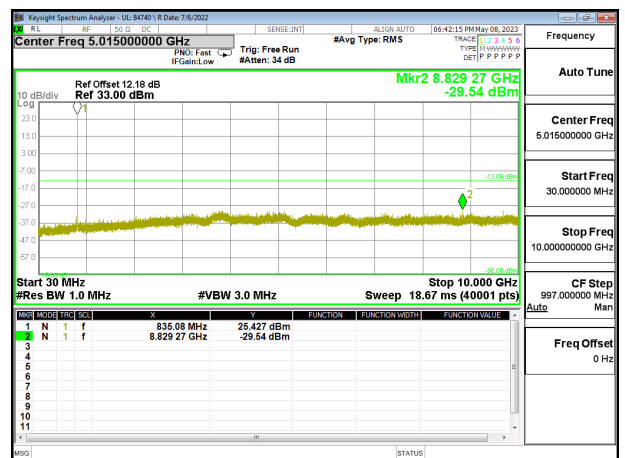
LTE5 3MHz 64QAM HIGH Ch RB1-0



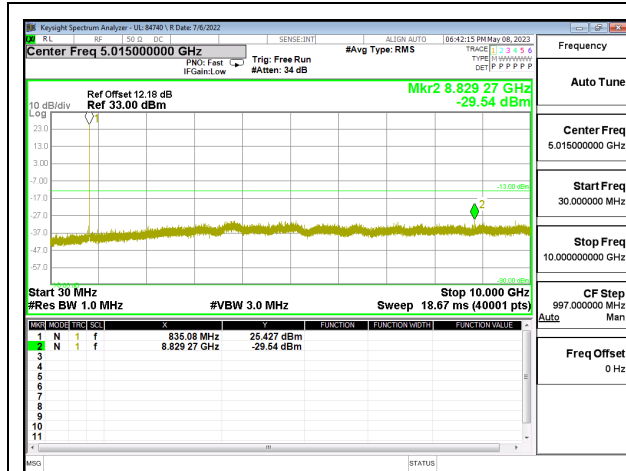
LTE5 5MHz 64QAM LOW Ch RB25-0



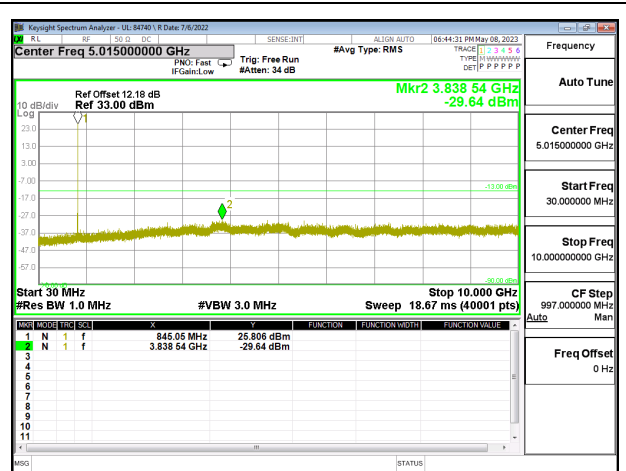
LTE5 5MHz 64QAM LOW Ch RB1-0



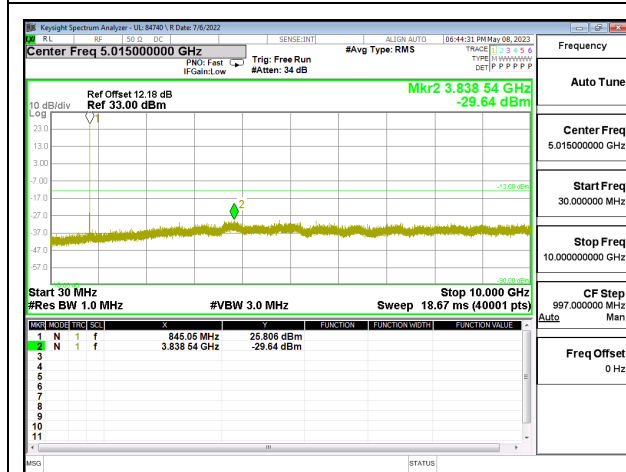
LTE5 5MHz 64QAM MID Ch RB25-0



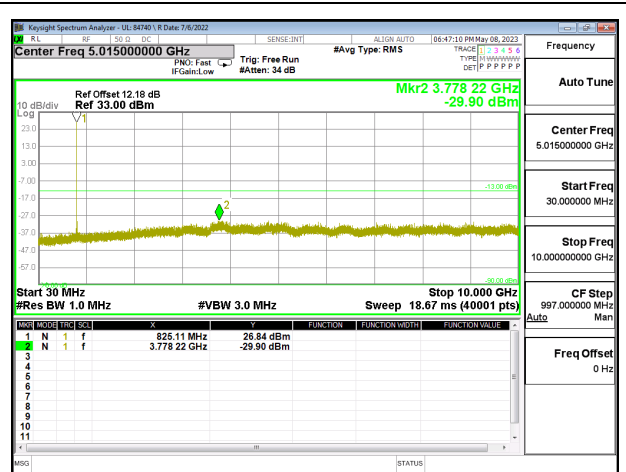
LTE5 5MHz 64QAM MID Ch RB1-0



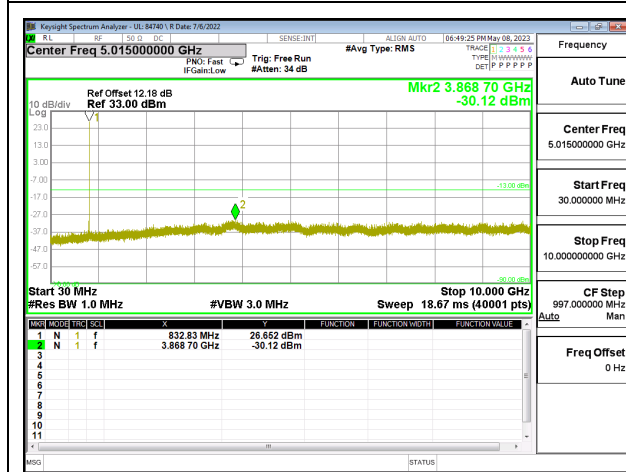
LTE5 5MHz 64QAM HIGH Ch RB25-0



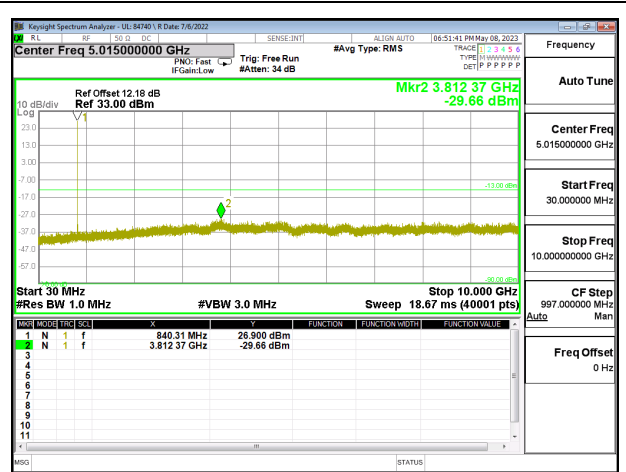
LTE5 5MHz 64QAM HIGH Ch RB1-0



LTE5 10MHz 64QAM LOW Ch RB1-0

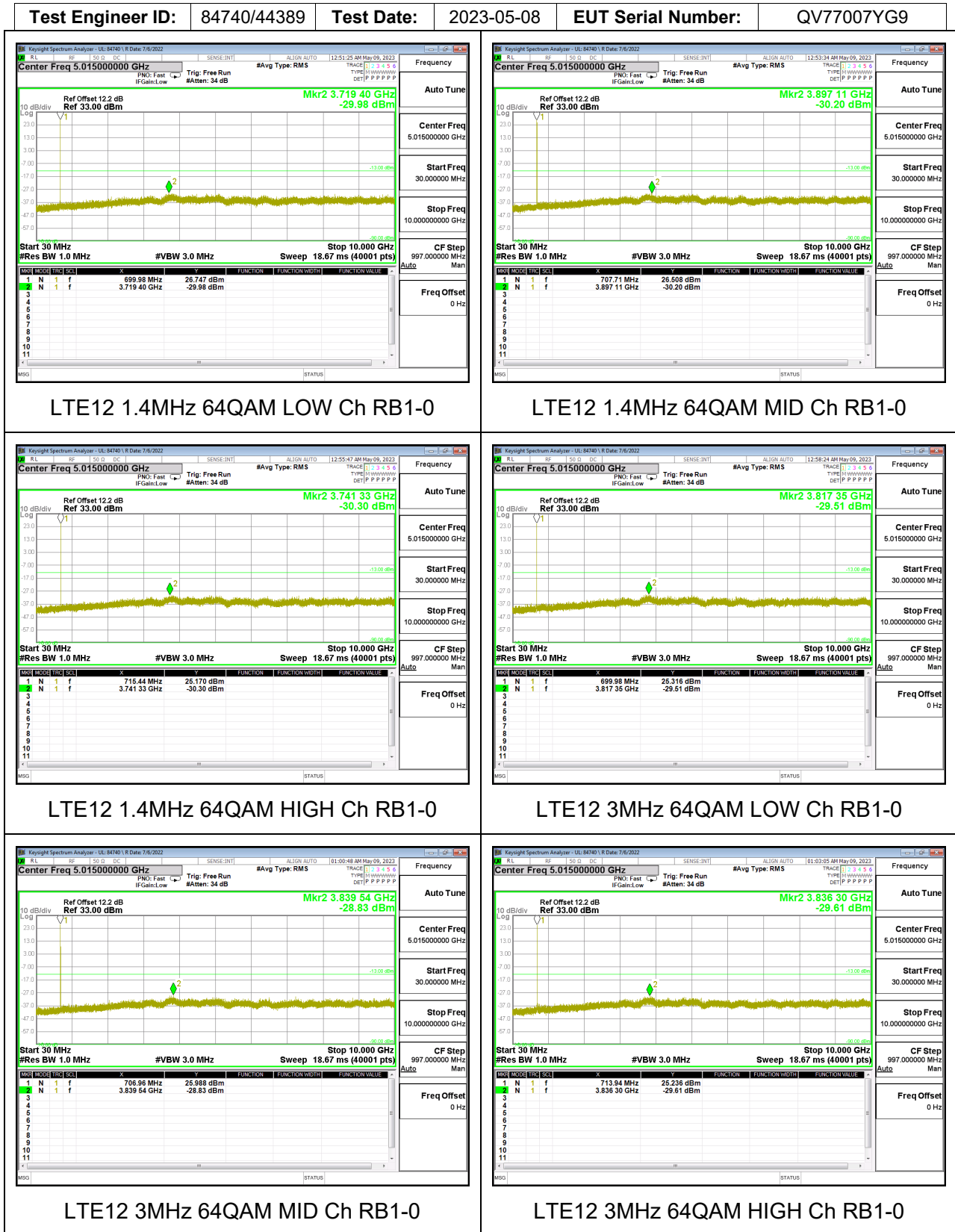


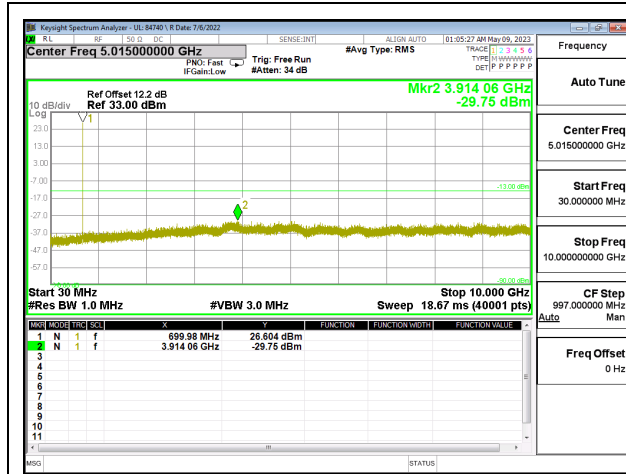
LTE5 10MHz 64QAM MID Ch RB1-0



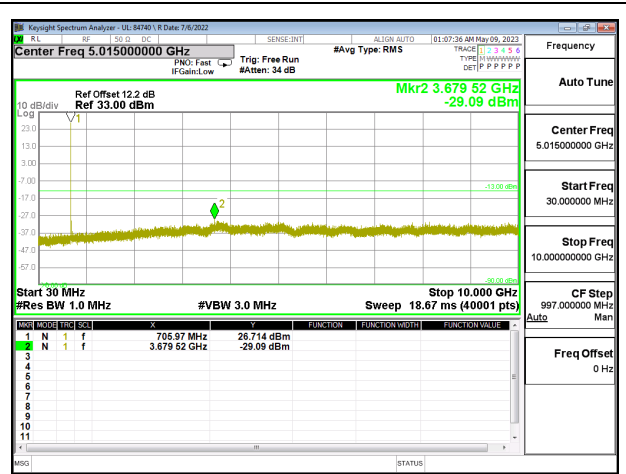
LTE5 10MHz 64QAM HIGH Ch RB1-0

9.2.7. LTE12

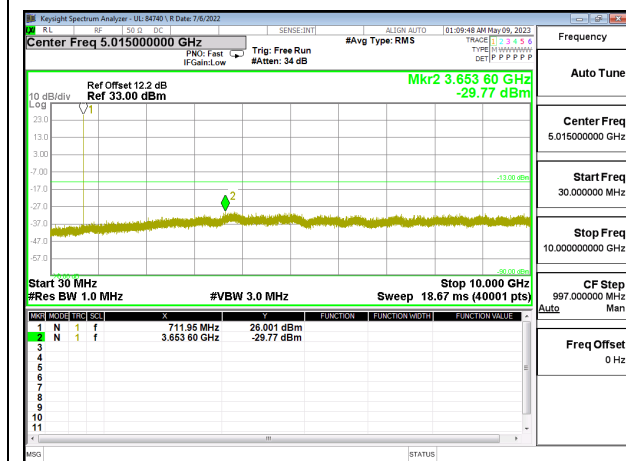




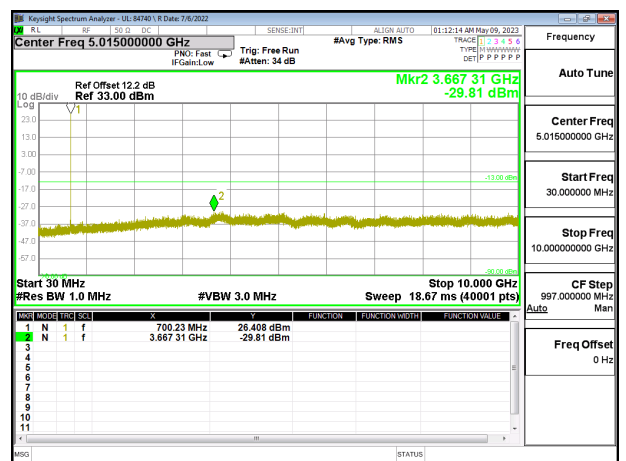
LTE12 5MHz 64QAM LOW Ch RB1-0



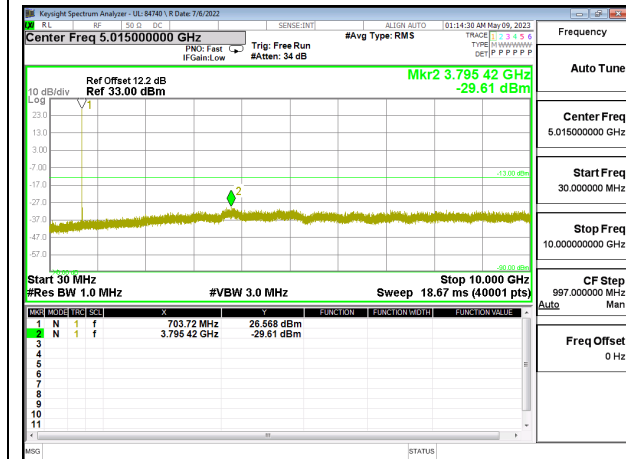
LTE12 5MHz 64QAM MID Ch RB1-0



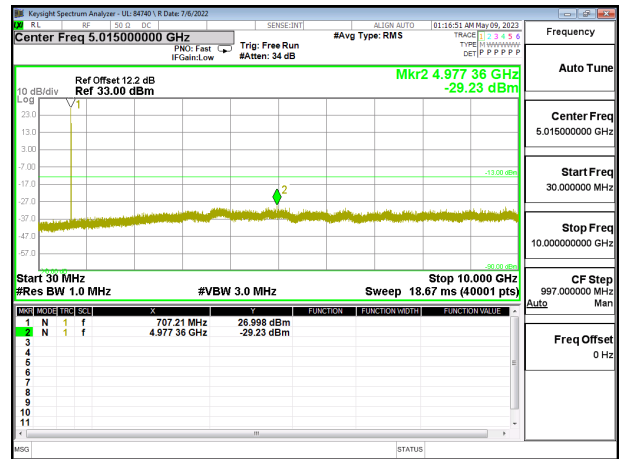
LTE12 5MHz 64QAM HIGH Ch RB1-0



LTE12 10MHz 64QAM LOW Ch RB1-0

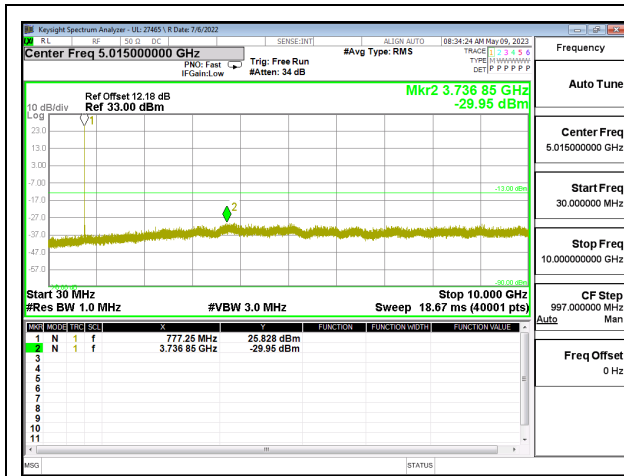


LTE12 10MHz 64QAM MID Ch RB1-0

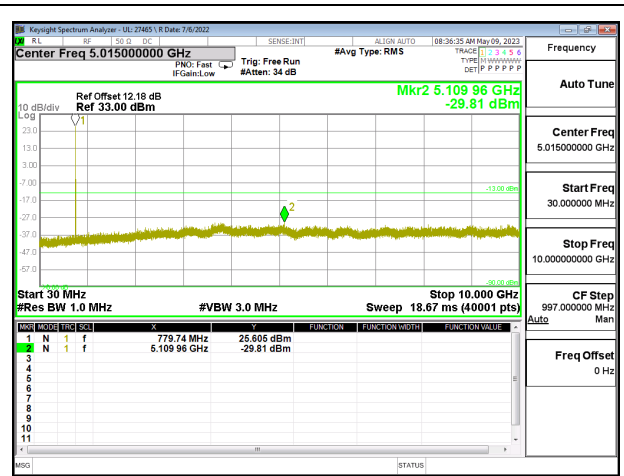


LTE12 10MHz 64QAM HIGH Ch RB1-0

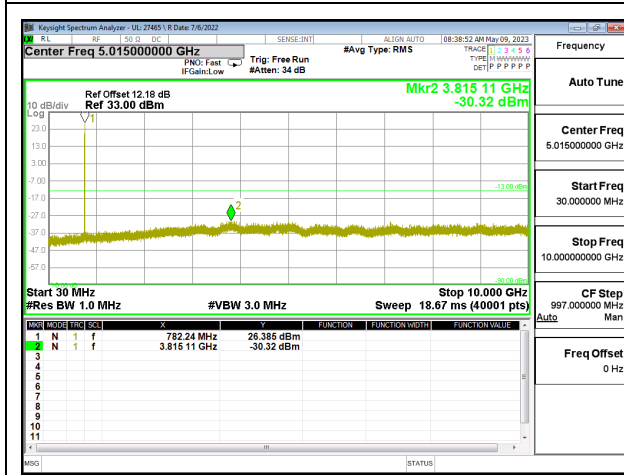
9.2.8. LTE13



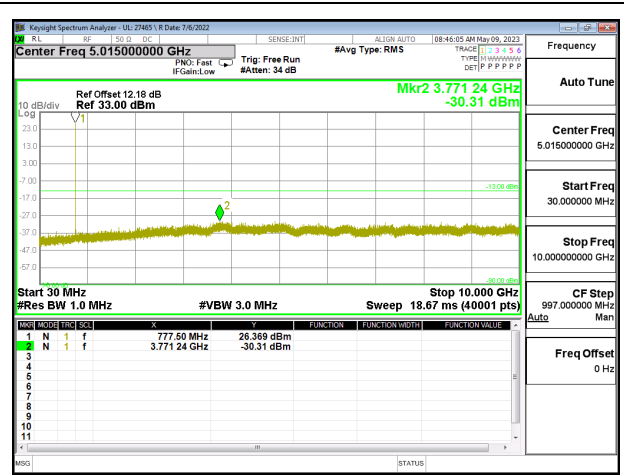
LTE13 5MHz 64QAM LOW Ch RB1-0



LTE13 5MHz 64QAM MID Ch RB1-0

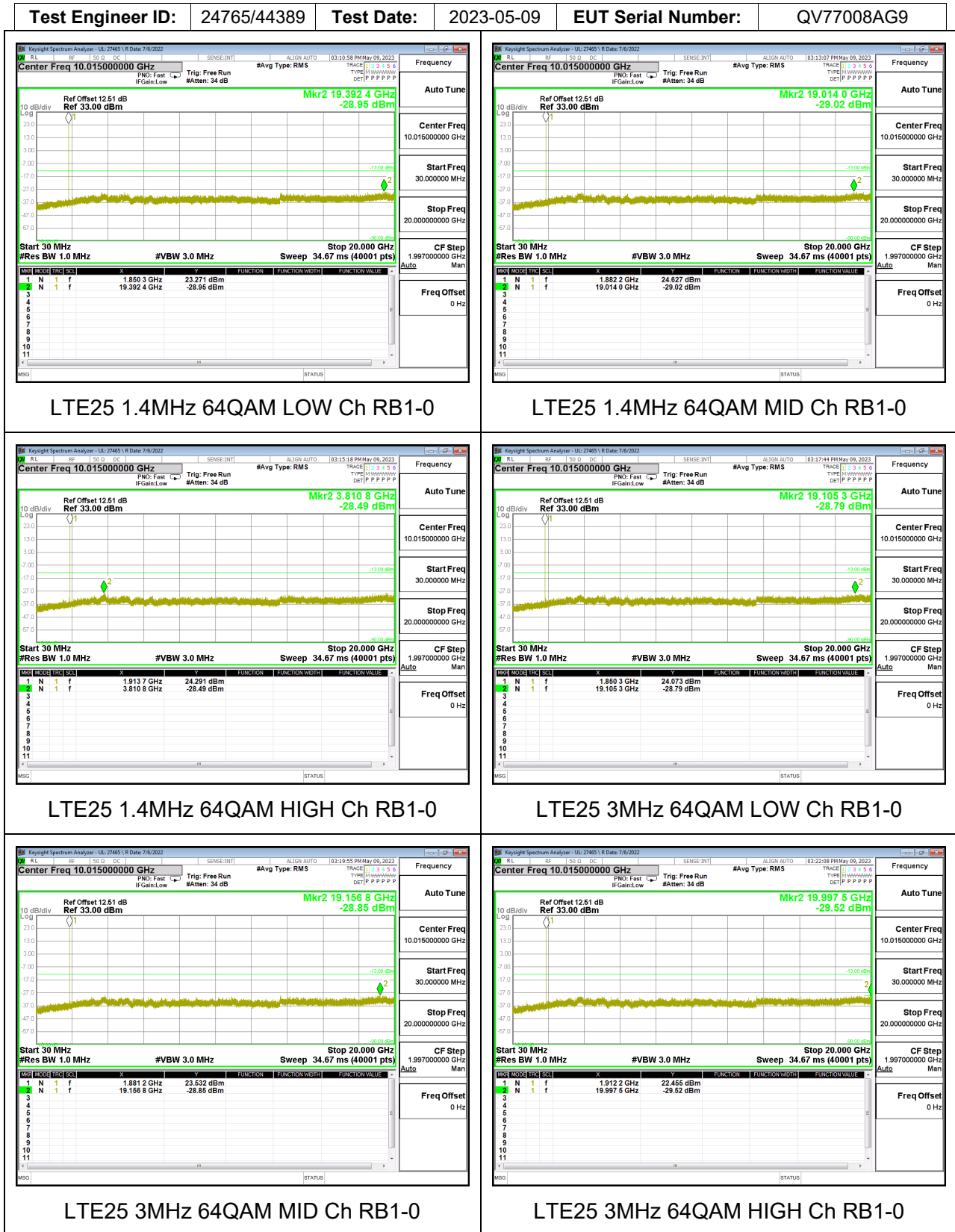


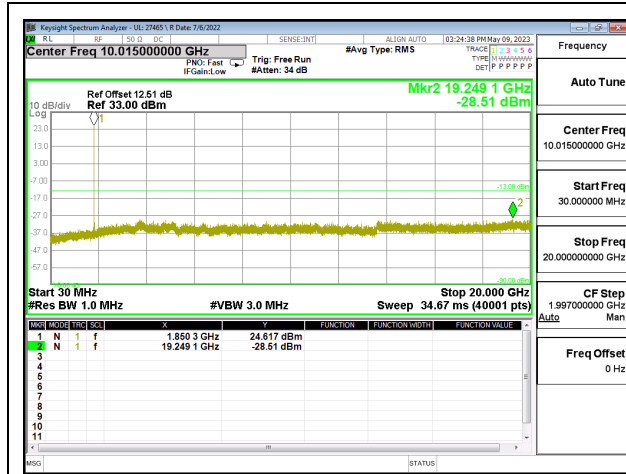
LTE13 5MHz 64QAM HIGH Ch RB1-0



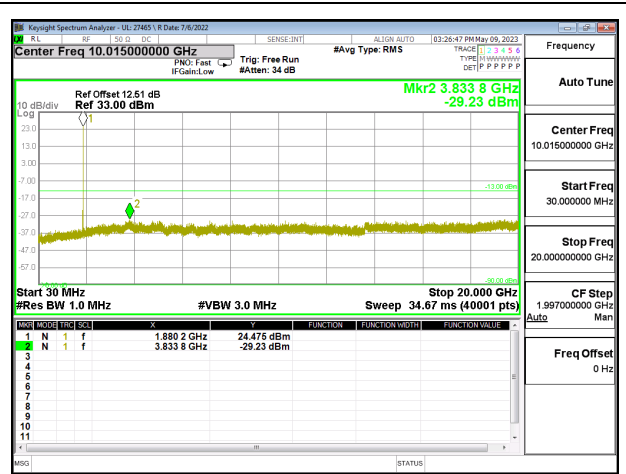
LTE13 10MHz 64QAM MID Ch RB1-0

9.2.9. LTE25

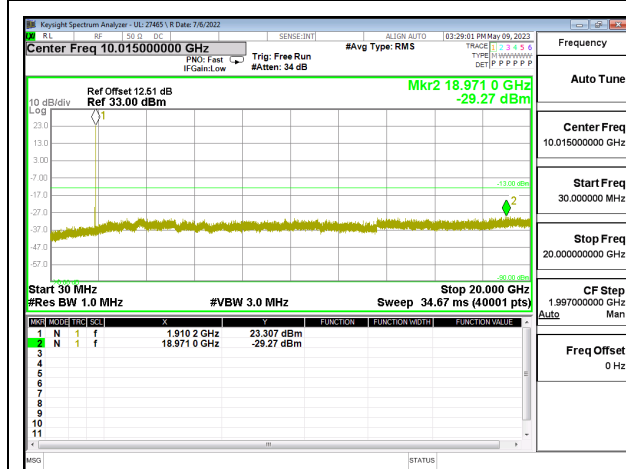




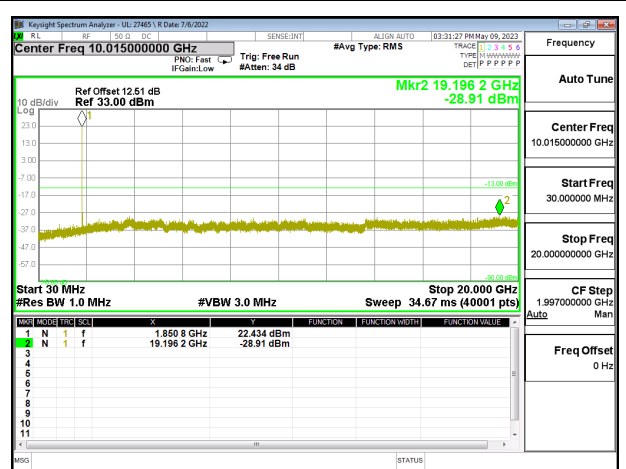
LTE25 5MHz 64QAM LOW Ch RB1-0



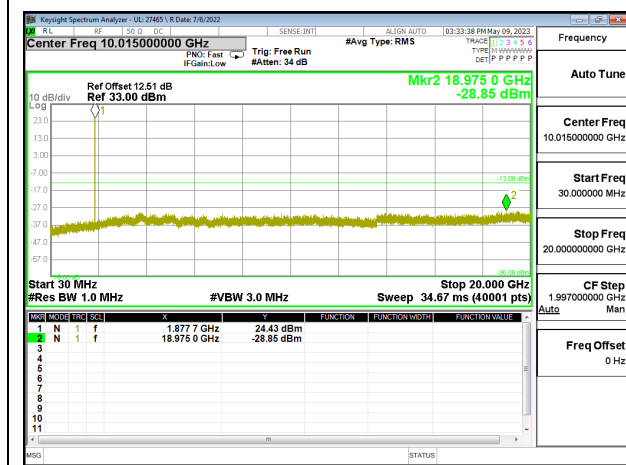
LTE25 5MHz 64QAM MID Ch RB1-0



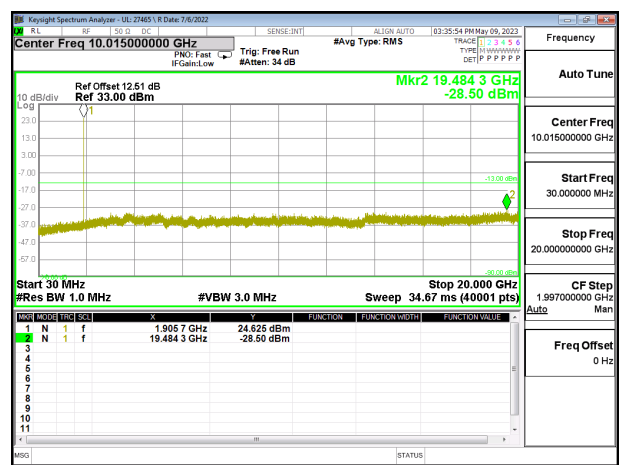
LTE25 5MHz 64QAM HIGH Ch RB1-0



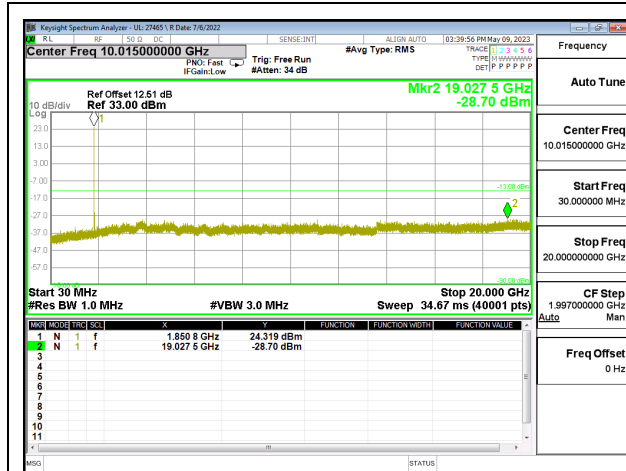
LTE25 10MHz 64QAM LOW Ch RB1-0



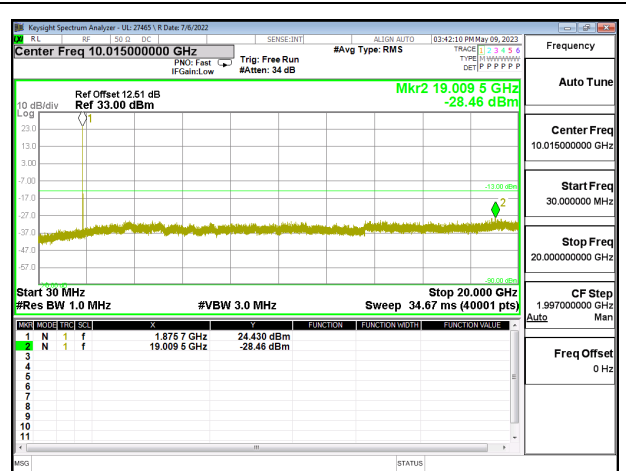
LTE25 10MHz 64QAM MID Ch RB1-0



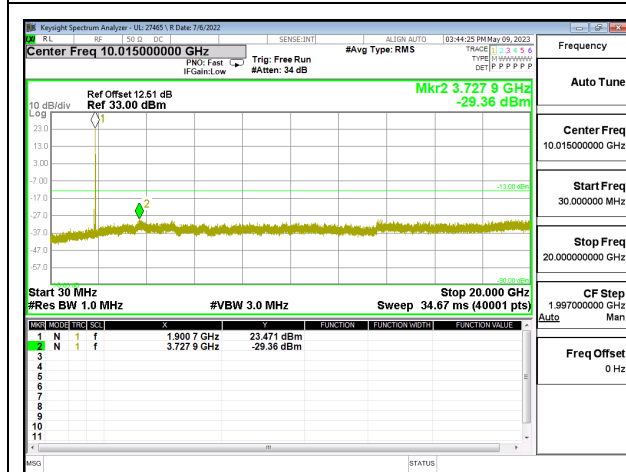
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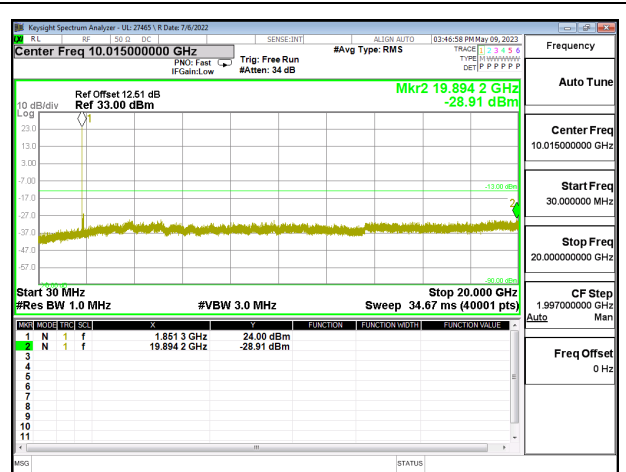
LTE25 15MHz 64QAM LOW Ch RB1-0



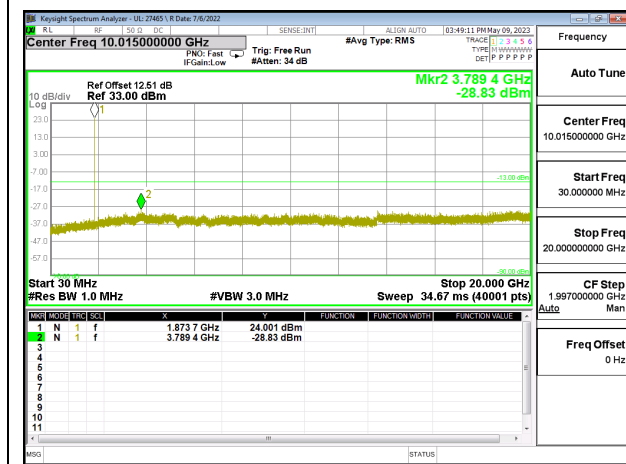
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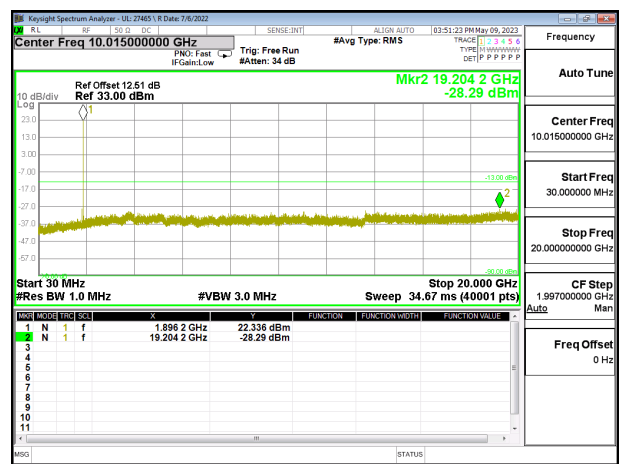
LTE25 15MHz 64QAM HIGH Ch RB1-0



LTE25 20MHz 64QAM LOW Ch RB1-0



LTE25 20MHz 64QAM MID Ch RB1-0



LTE25 20MHz 64QAM HIGH Ch RB1-0