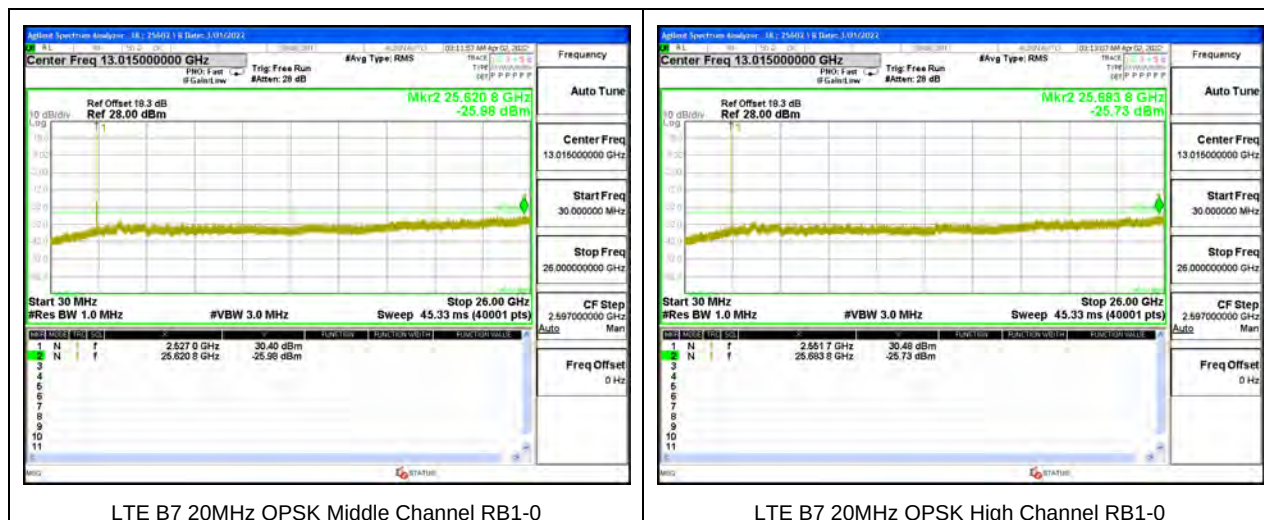




5G NR n7



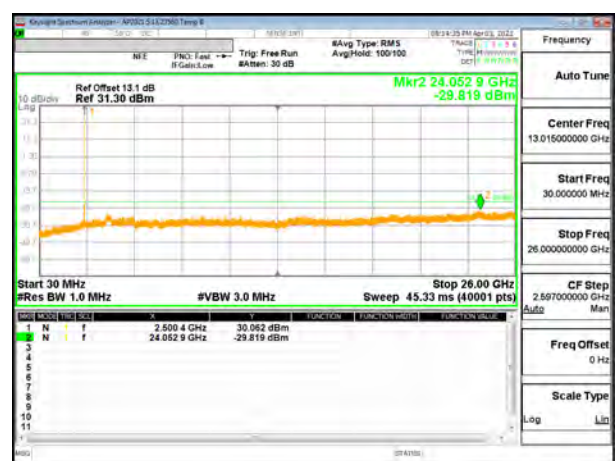
5G NR n7 5MHz BPSK Low Channel RB1-0



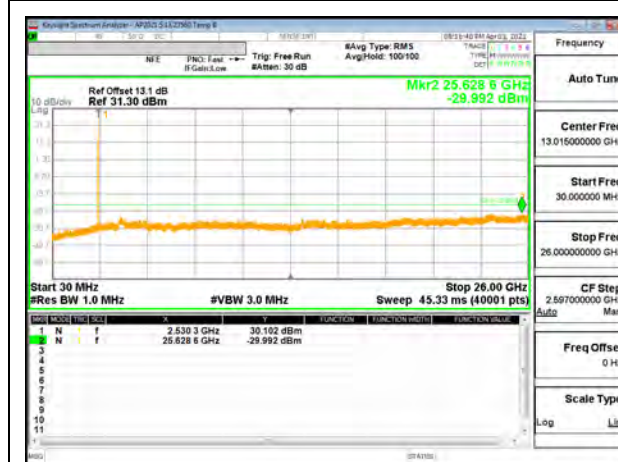
5G NR n7 5MHz BPSK Middle Channel RB1-1



5G NR n7 5MHz BPSK High Channel RB1-24



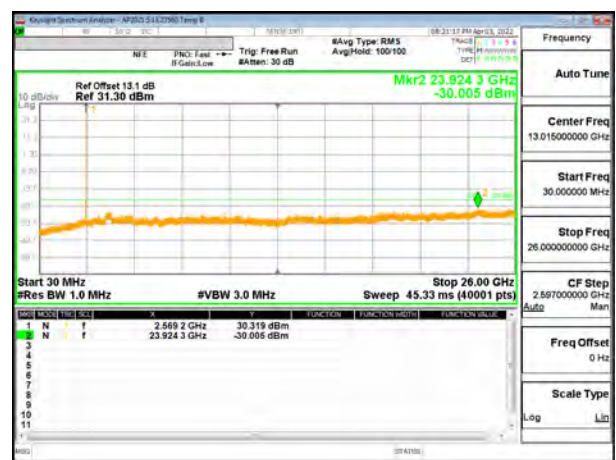
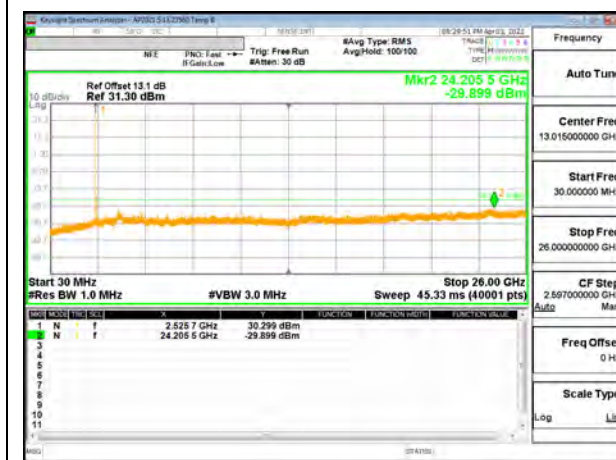
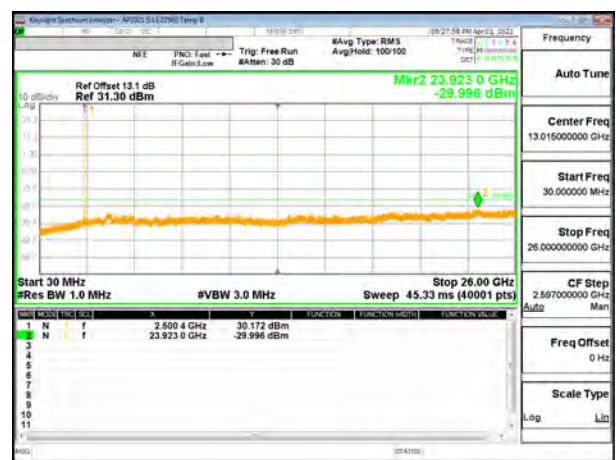
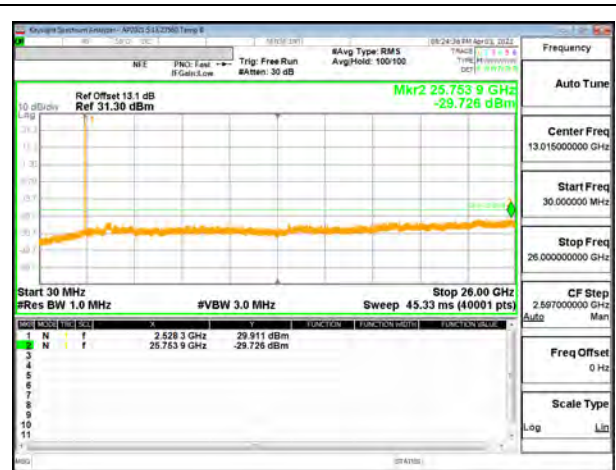
5G NR n7 10MHz BPSK Low Channel RB1-0

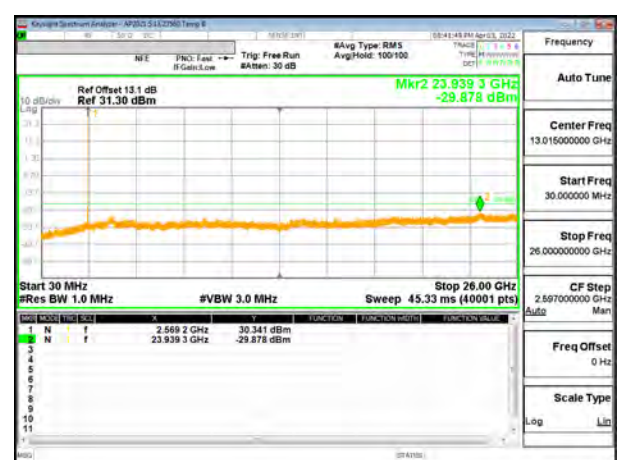
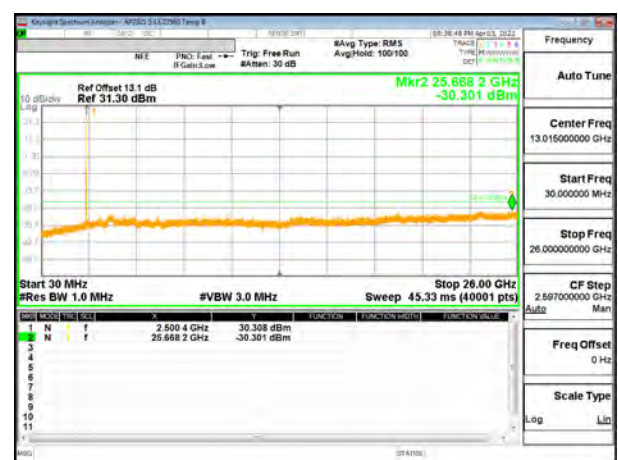
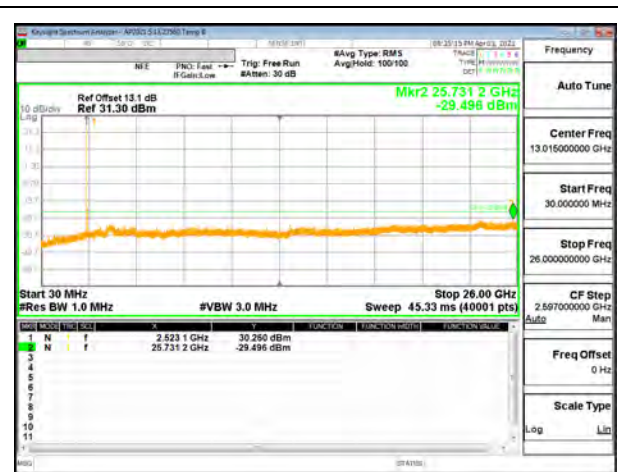


5G NR n7 10MHz BPSK Middle Channel RB1-1



5G NR n7 10MHz BPSK High Channel RB1-51



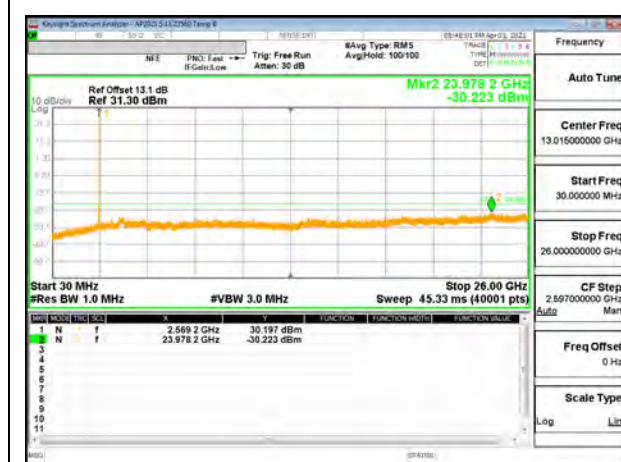




5G NR n7 40MHz BPSK Low Channel RB1-0



5G NR n7 40MHz BPSK Middle Channel RB1-1



5G NR n7 40MHz BPSK High Channel RB1-215

9.3.3. LTE BAND 12 AND 5G NR n12

LIMITS

FCC: §27.53 (g)

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

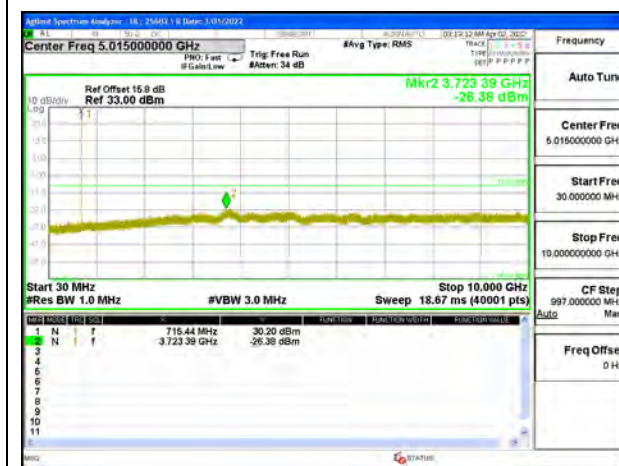
LTE BAND 12



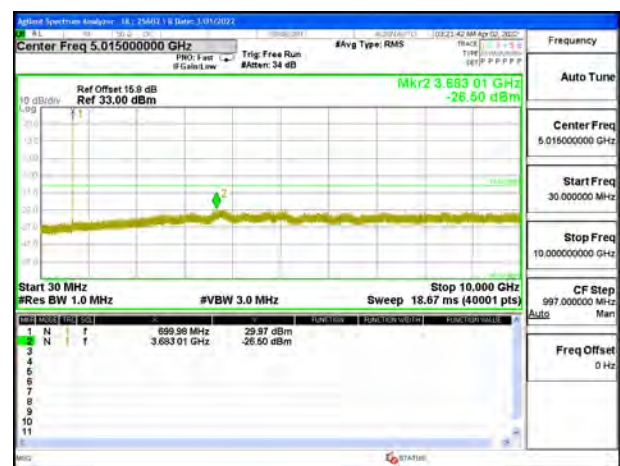
LTE B12 1.4MHz QPSK Low Channel RB1-0



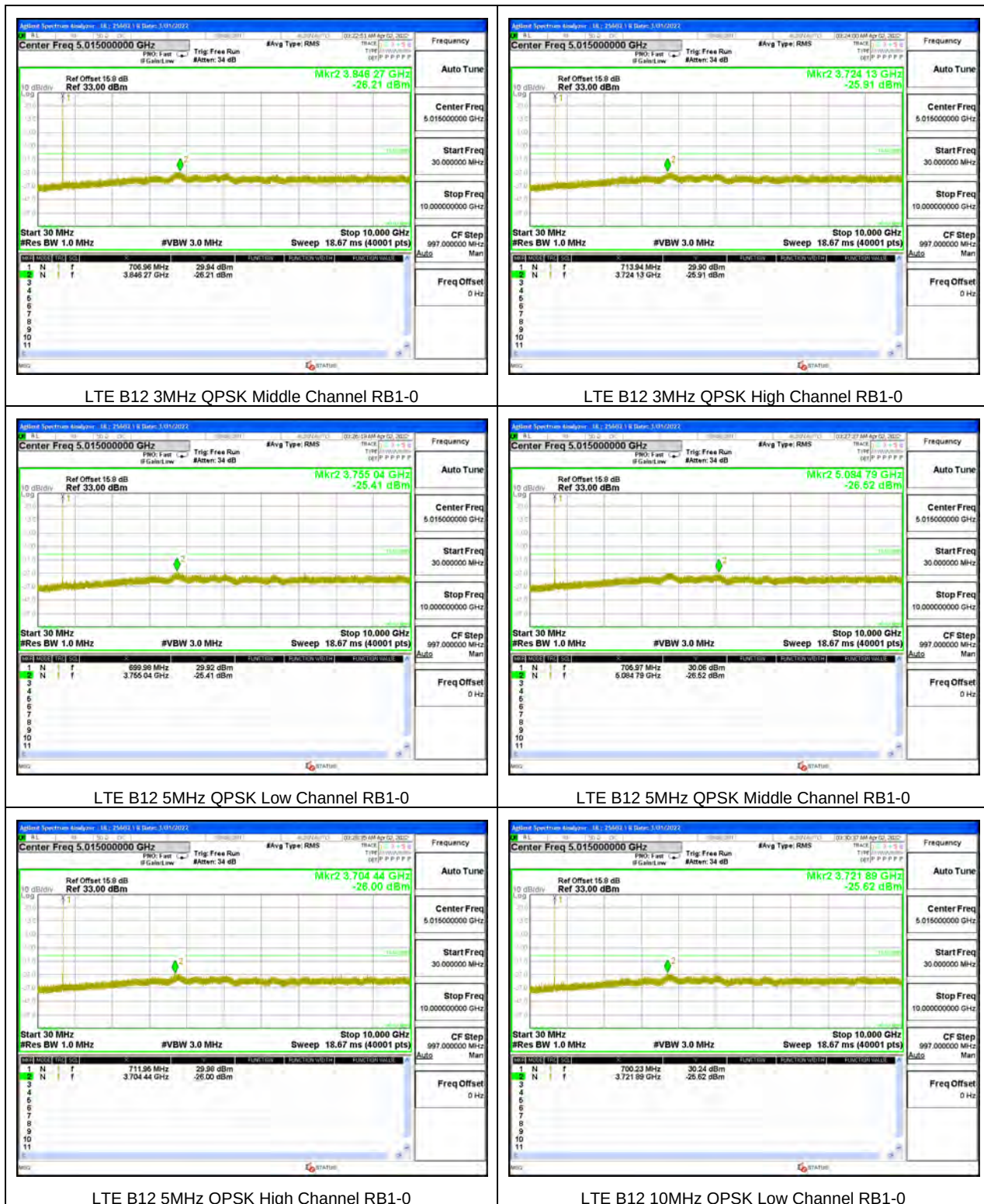
LTE B12 1.4MHz QPSK Middle Channel RB1-0

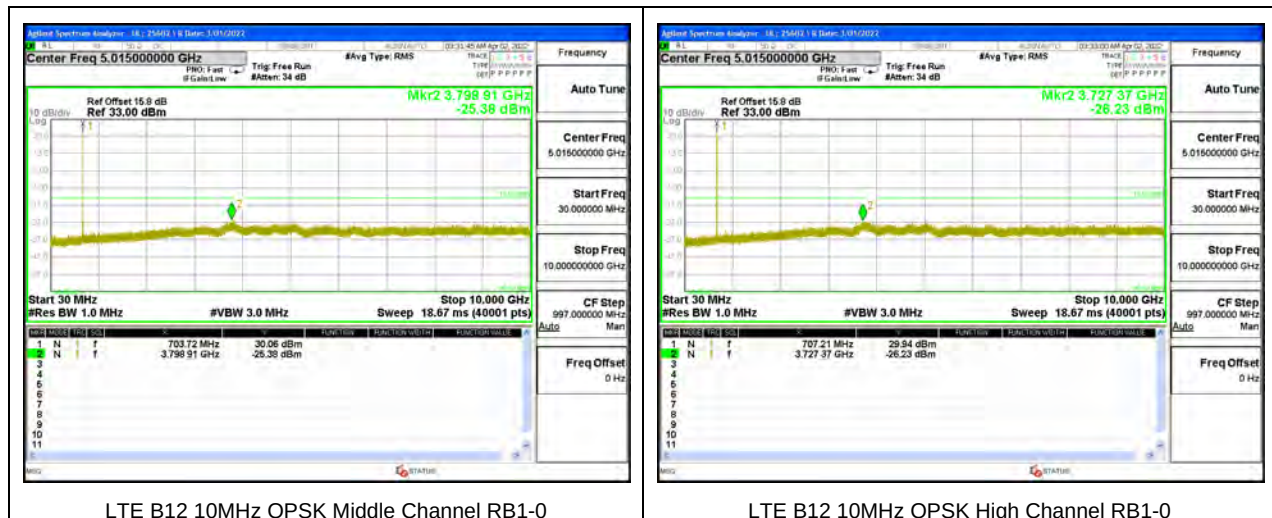


LTE B12 1.4MHz QPSK High Channel RB1-0



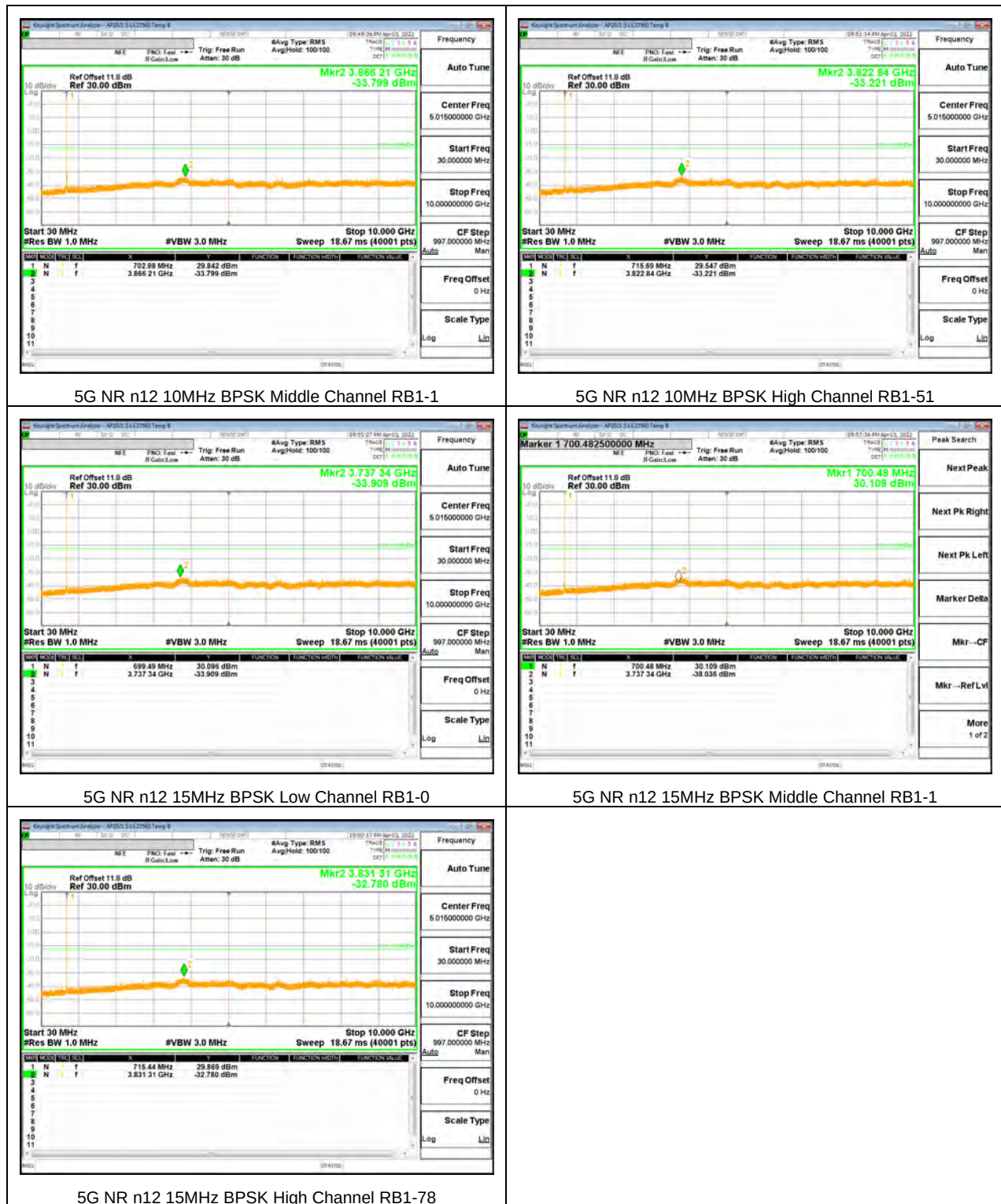
LTE B12 3MHz QPSK Low Channel RB1-0





5G NR n12





9.3.4. LTE BAND 13

LIMITS

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 isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

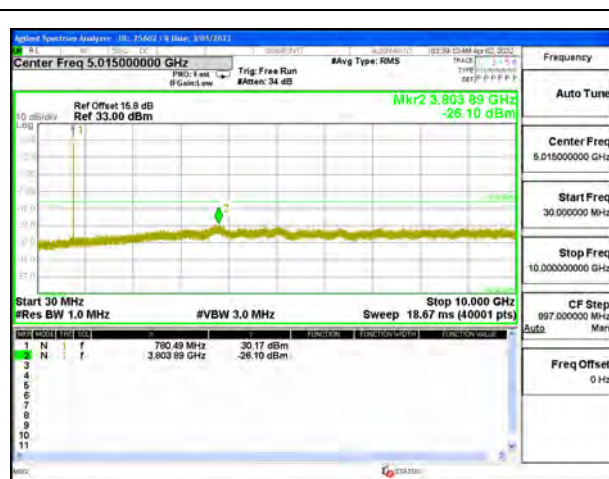
Note: Radiated data in section 9.1.6 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40 dBm/MHz limit was used.

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.

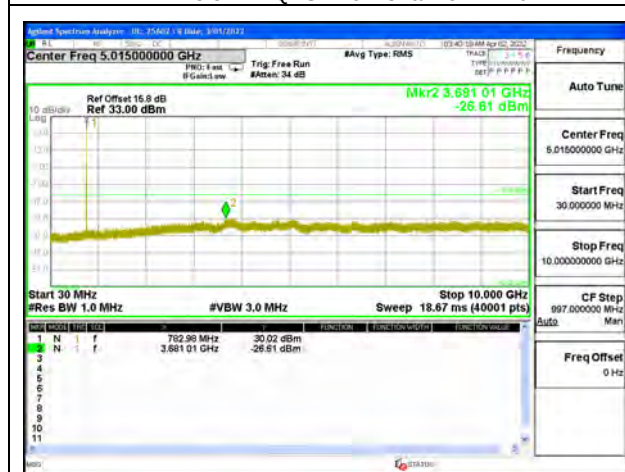
LTE BAND 13



LTE B13 5MHz QPSK Low Channel RB1-0



LTE B13 10MHz QPSK Middle Channel RB1-0



LTE B13 5MHz QPSK High Channel RB1-0

Note: Radiated data in section 9.1.6 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

9.3.5. LTE BAND 14

LIMITS

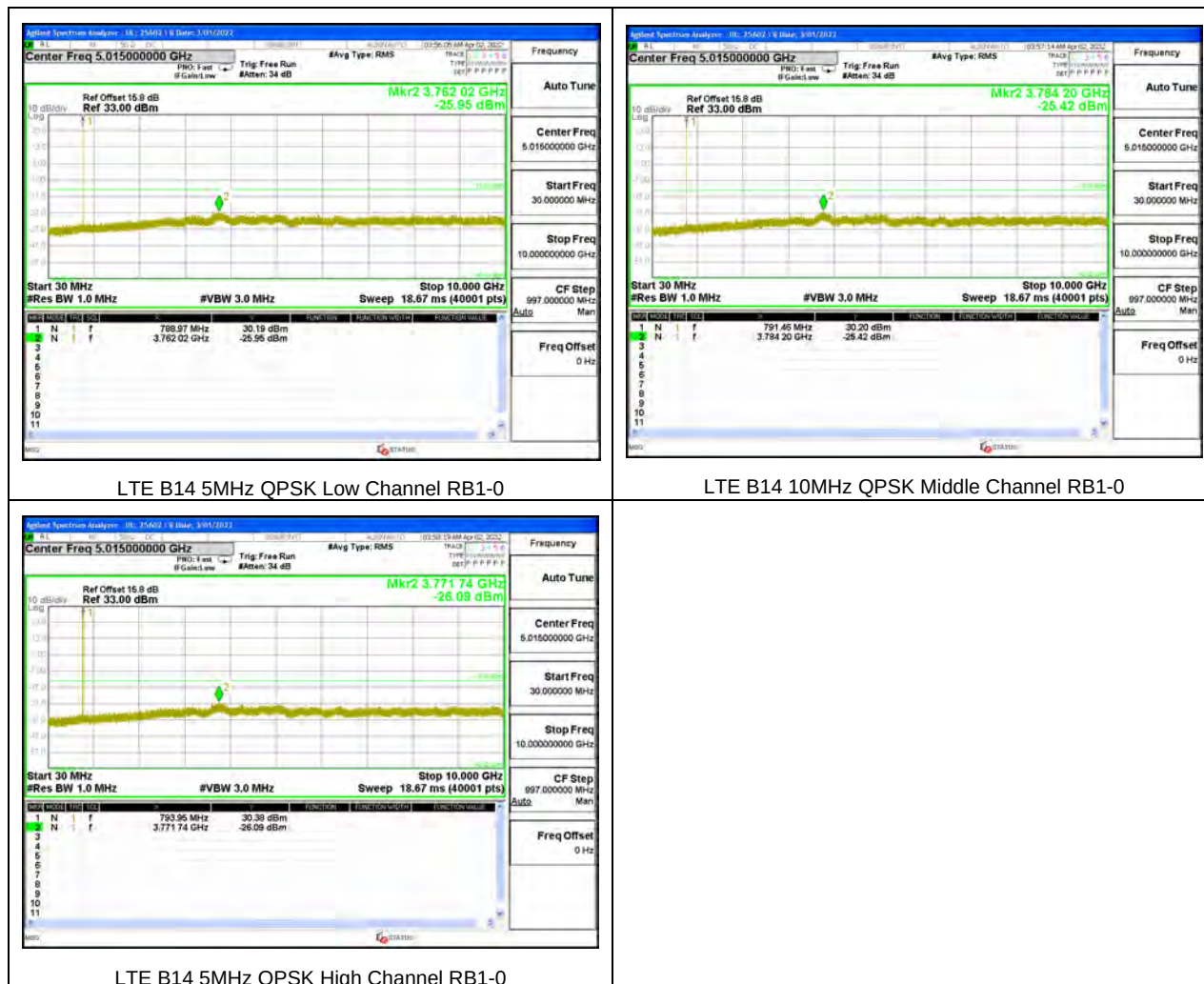
FCC: §90.543 (e), (f)

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 isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Radiated data in section 9.1.7 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40dBm/MHz limit was used.

Note: Radiated data in section 9.1.7 confirms a compliance for the emissions in GPS 1559-1610 MHz band were wideband emissions therefore the -40dBm/MHz limit was used.

LTE BAND 14



Note: Radiated data in section 9.1.7 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

5G NR n14

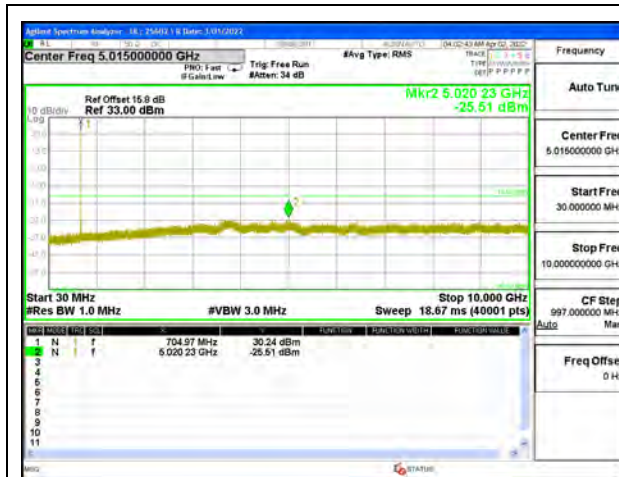


9.3.6. LTE BAND 17

LIMITS

FCC: \$27.53 (g)

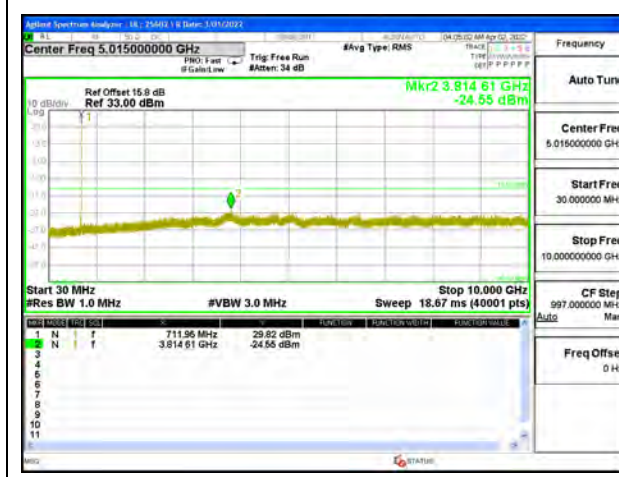
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.



LTE B17 5MHz QPSK Low Channel RB1-0



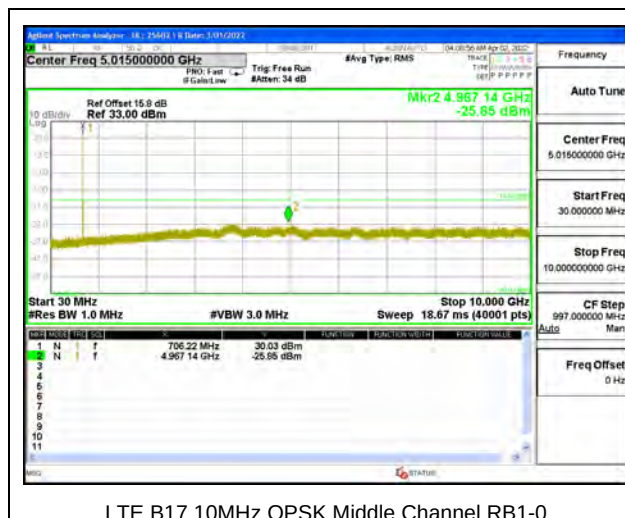
LTE B17 5MHz QPSK Middle Channel RB1-0



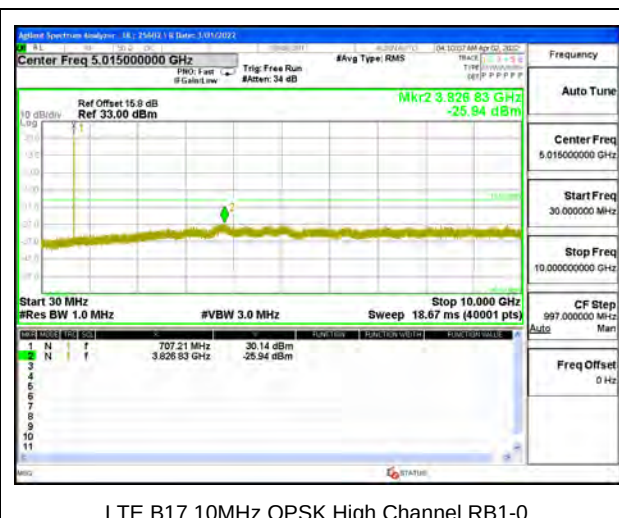
LTE B17 5MHz QPSK High Channel RB1-0



LTE B17 10MHz QPSK Low Channel RB1-0



LTE B17 10MHz QPSK Middle Channel RB1-0



LTE B17 10MHz QPSK High Channel RB1-0

9.3.7. LTE BAND 25 AND 5G NR n25

LIMITS

FCC: §24.238 (a)

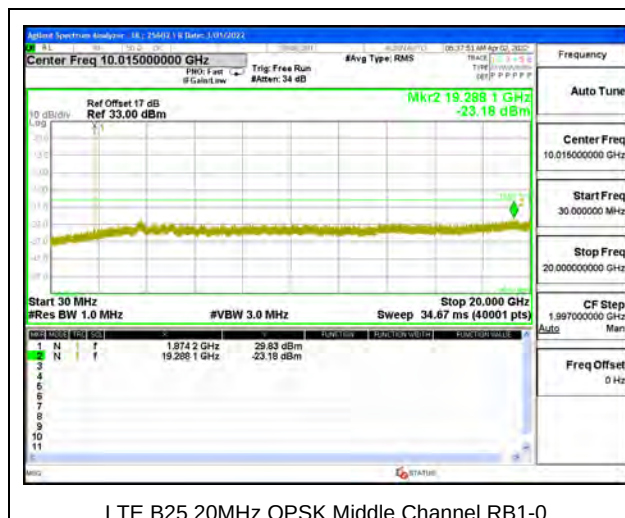
The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

LTE BAND 25

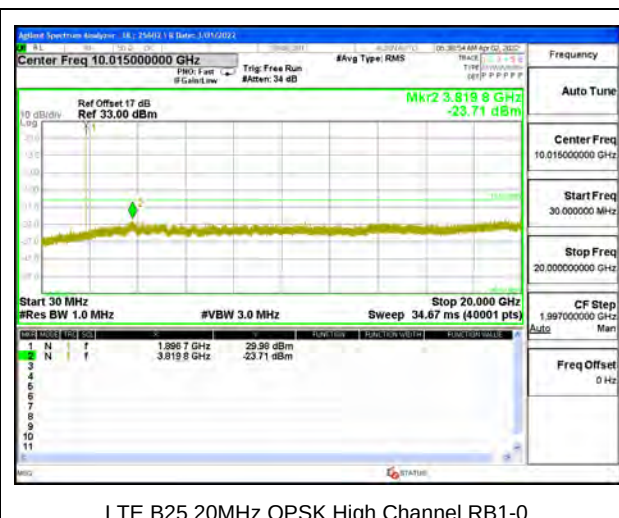






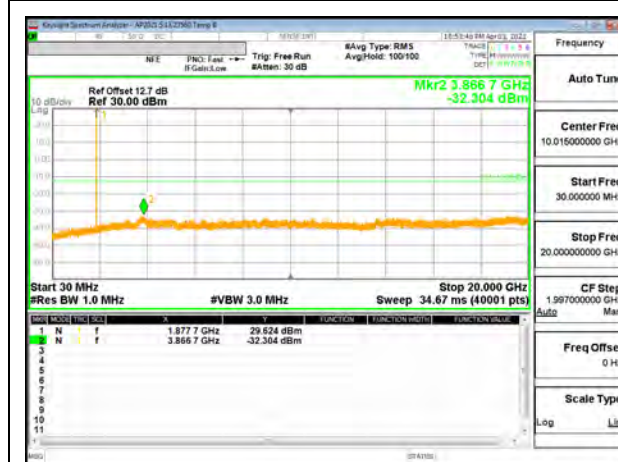
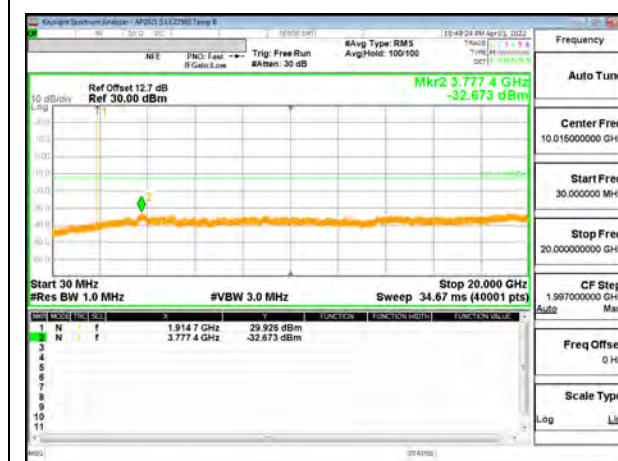


LTE B25 20MHz QPSK Middle Channel RB1-0



LTE B25 20MHz QPSK High Channel RB1-0

5G NR n25









5G NR n25 40MHz BPSK Low Channel RB1-0



5G NR n25 40MHz BPSK Middle Channel RB1-1



5G NR n25 40MHz BPSK High Channel RB1-215

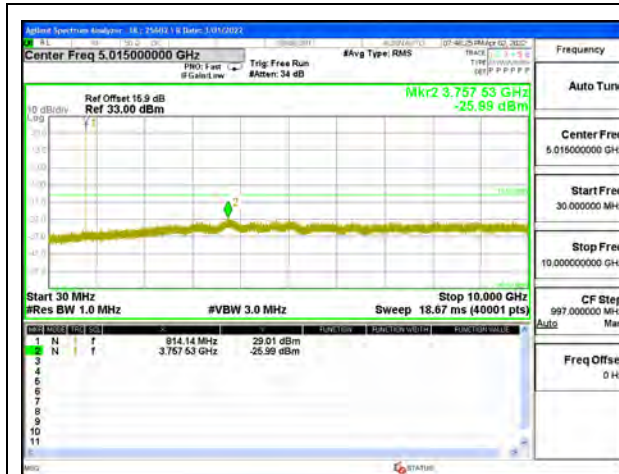
9.3.8. LTE BAND 26 AND 5G NR n26 (FCC PART 90S)

LIMITS

FCC: \$90.691

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

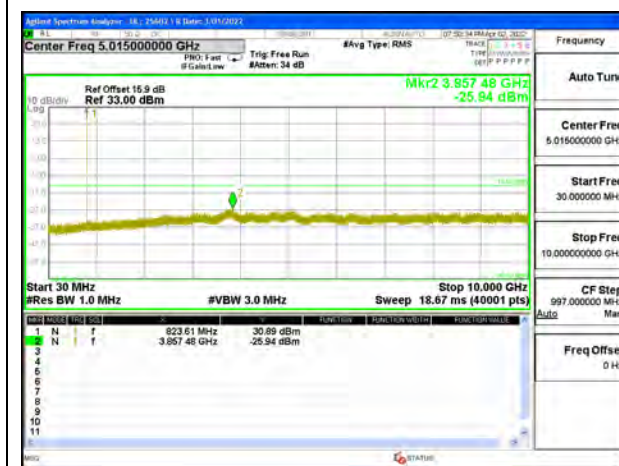
LTE BAND 26



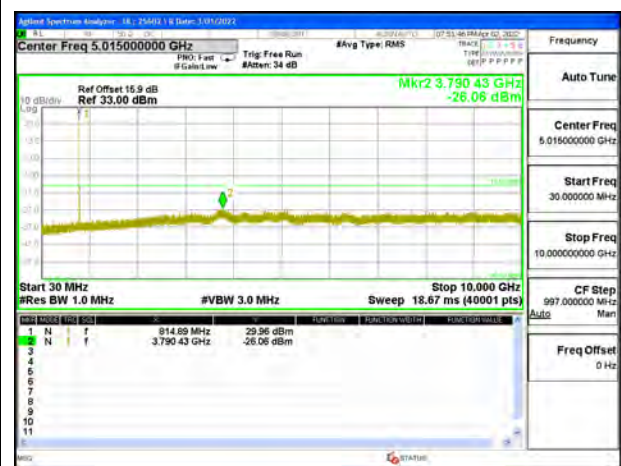
LTE B26 1.4MHz QPSK Low Channel RB1-0



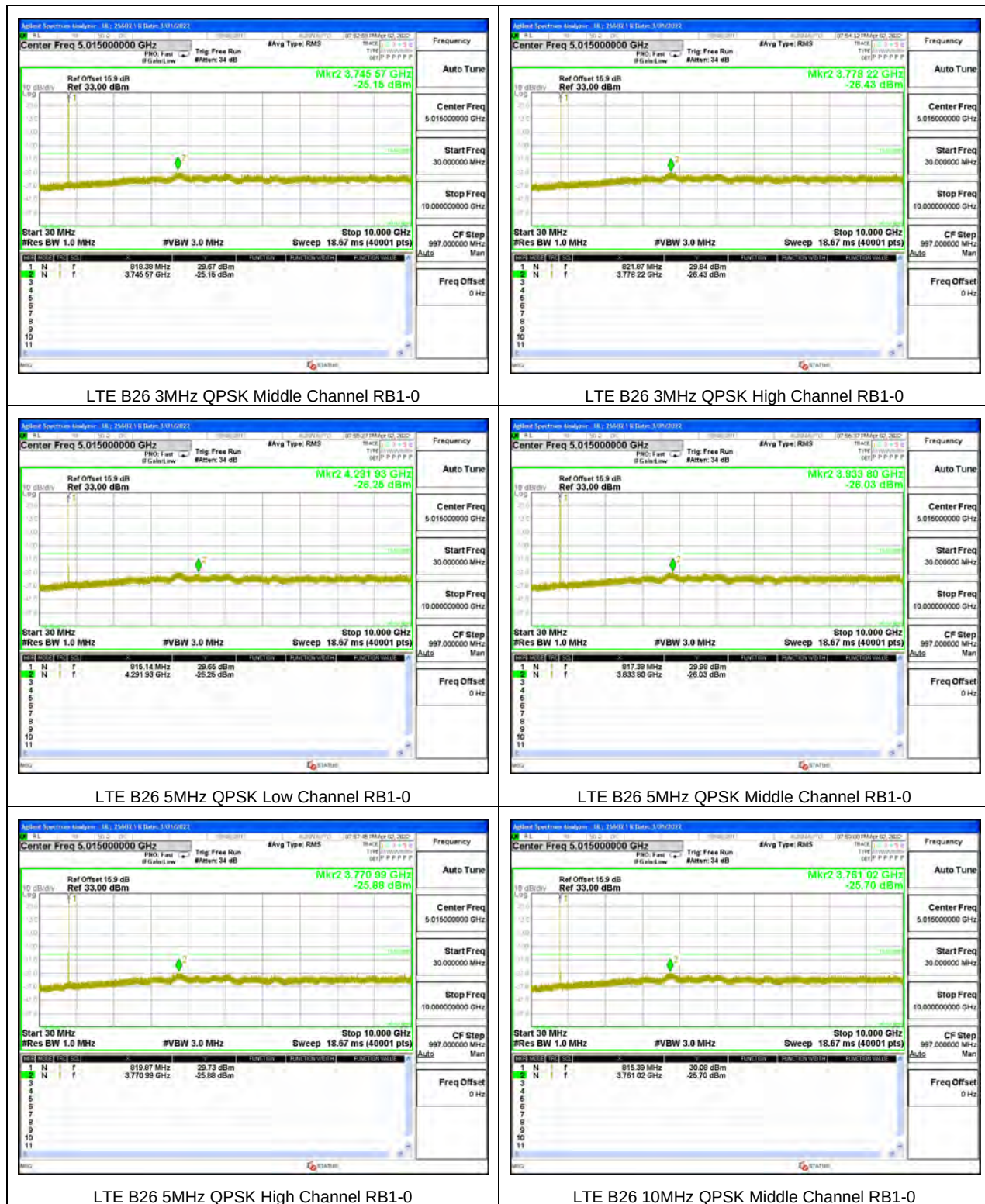
LTE B26 1.4MHz QPSK Middle Channel RB1-0



LTE B26 1.4MHz QPSK High Channel RB1-0



LTE B26 3MHz QPSK Low Channel RB1-0



5G NR n26



9.3.9. LTE BAND 30

LIMITS

FCC: §27.53 (a)

The minimum permissible attenuation level of any spurious emissions is $70 + 10 \log (P)$ dB where transmitting power (P) in Watts.

LTE BAND 30





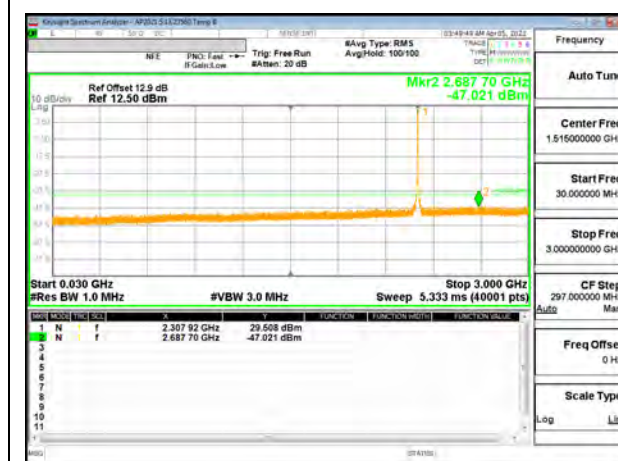
5G NR n30



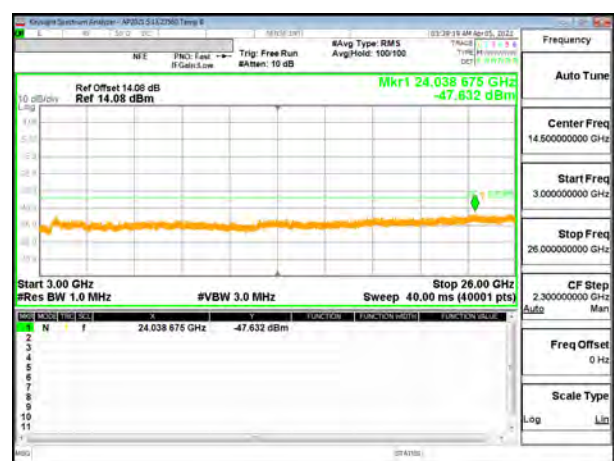
5G NR n30 5MHz BPSK Low Channel RB1-0 (30M to 3G)



5G NR n30 5MHz BPSK Low Channel RB1-1 (3G to 26G)



5G NR n30 5MHz BPSK Middle Channel RB1-0 (30M to 3G)



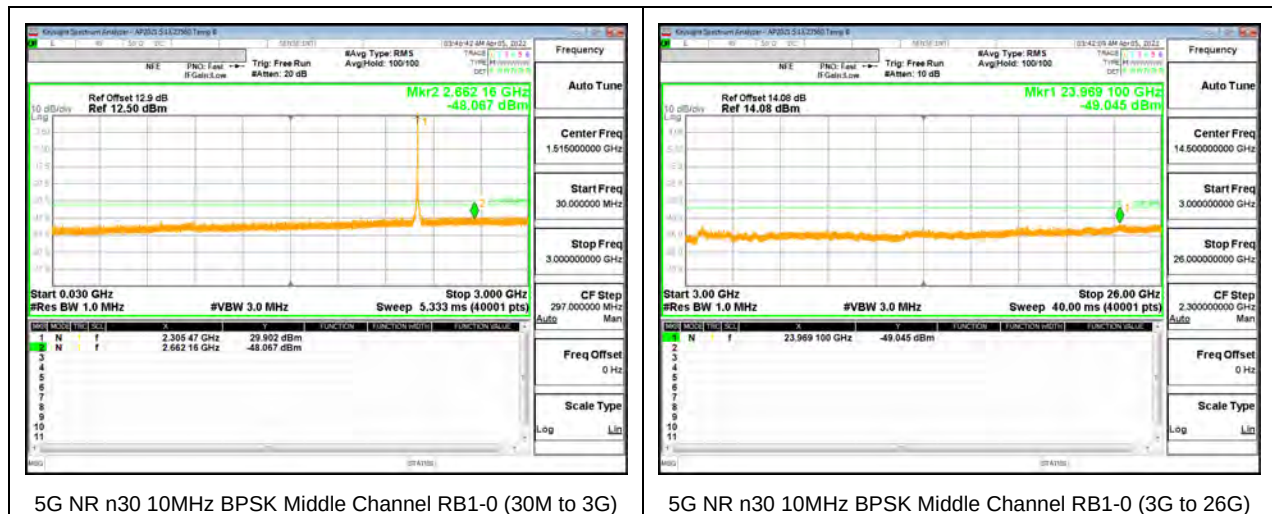
5G NR n30 10MHz BPSK Middle Channel RB1-0 (3G to 26G)



5G NR n30 5MHz BPSK High Channel RB1-24 (30M to 3G)



5G NR n30 10MHz BPSK High Channel RB1-0 (3G to 26G)



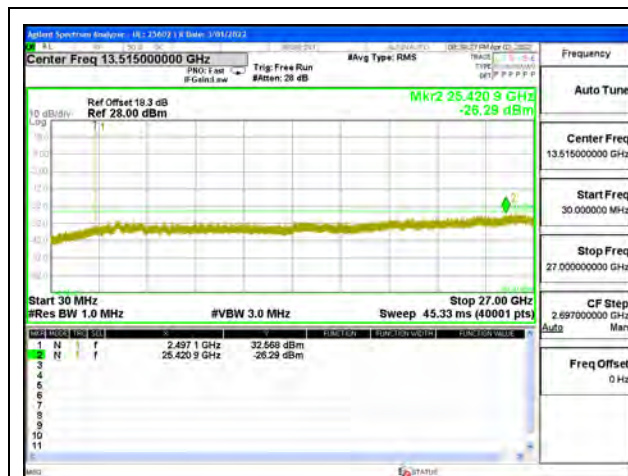
9.3.10. LTE BAND 41 AND 5G NR n41

LIMITS

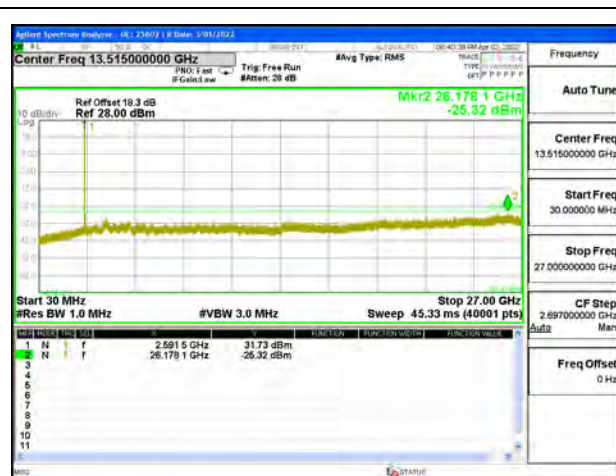
FCC: §27.53 (m)

The minimum permissible attenuation level of any spurious emissions is $55 + 10 \log (P)$ dB where transmitting power (P) in Watts.

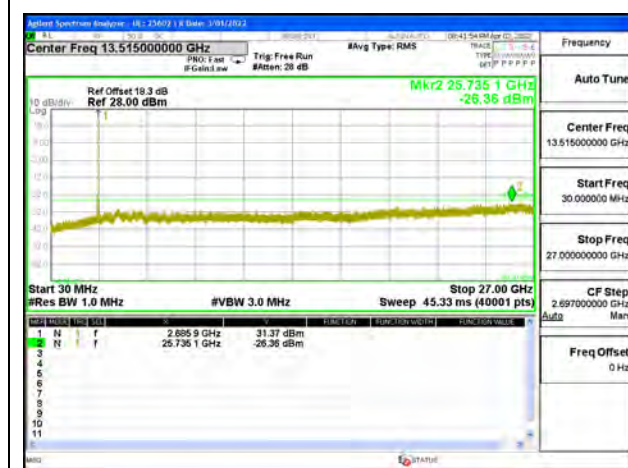
LTE BAND 41



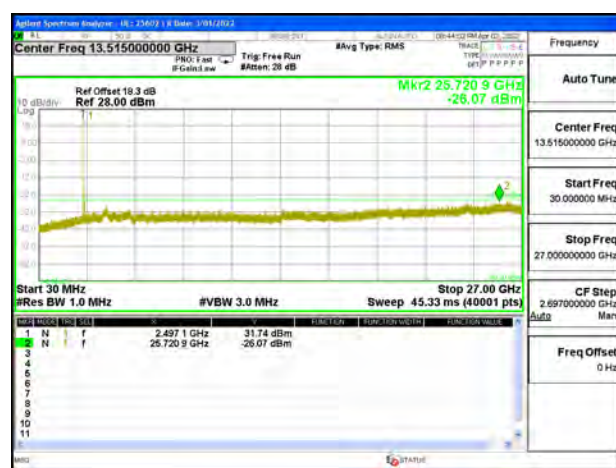
LTE B41 5MHz QPSK Low Channel RB1-0



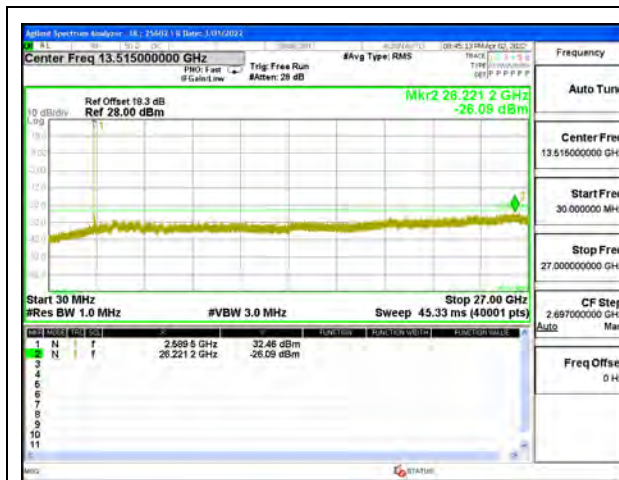
LTE B41 5MHz QPSK Middle Channel RB1-0



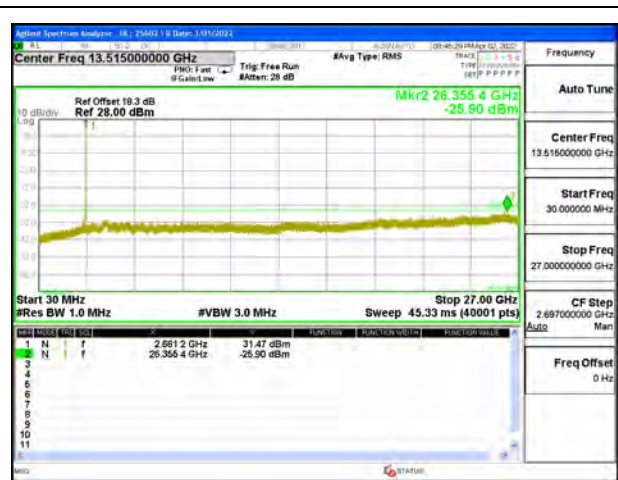
LTE B41 5MHz QPSK High Channel RB1-0



LTE B41 10MHz QPSK Low Channel RB1-0



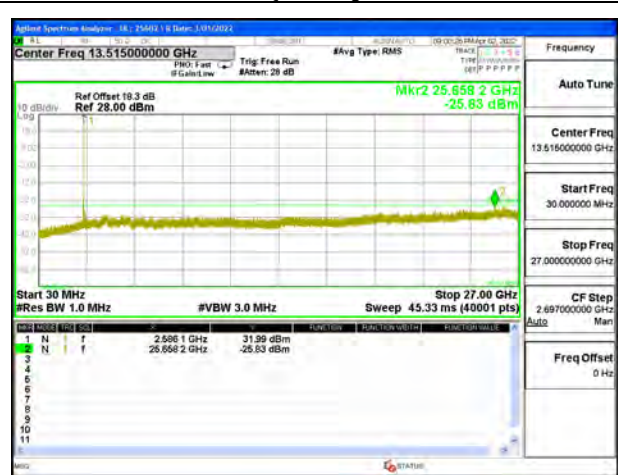
LTE B41 10MHz QPSK Middle Channel RB1-0



LTE B41 10MHz QPSK High Channel RB1-0



LTE B41 15MHz QPSK Low Channel RB1-0



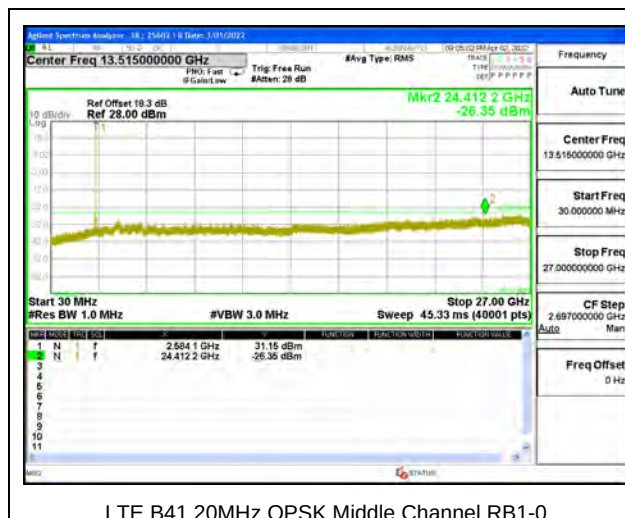
LTE B41 15MHz QPSK Middle Channel RB1-0



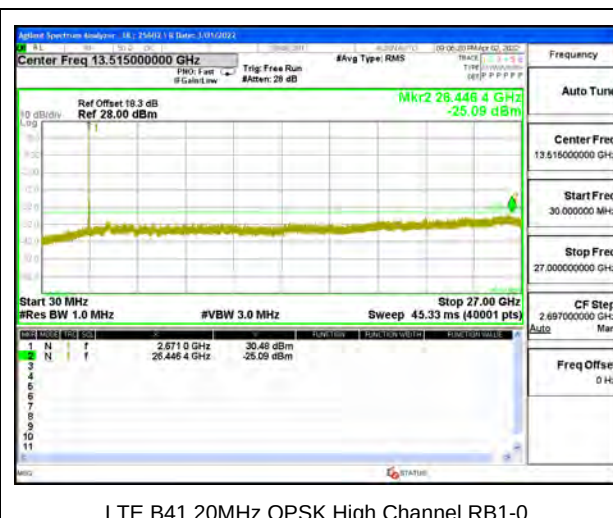
LTE B41 15MHz QPSK High Channel RB1-0



LTE B41 20MHz QPSK Low Channel RB1-0



LTE B41 20MHz QPSK Middle Channel RB1-0



LTE B41 20MHz QPSK High Channel RB1-0

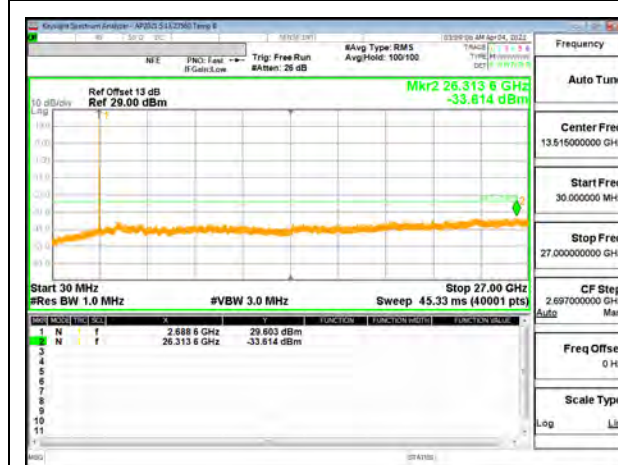
5G NR n41



5G NR n41 20MHz BPSK Low Channel RB1-0



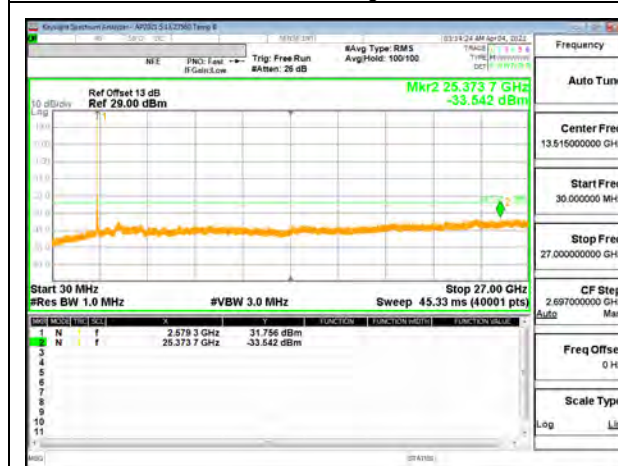
5G NR n41 20MHz BPSK Middle Channel RB1-1



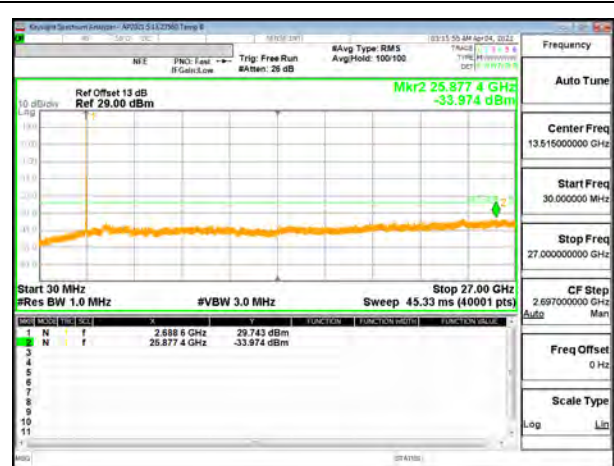
5G NR n41 20MHz BPSK High Channel RB1-50



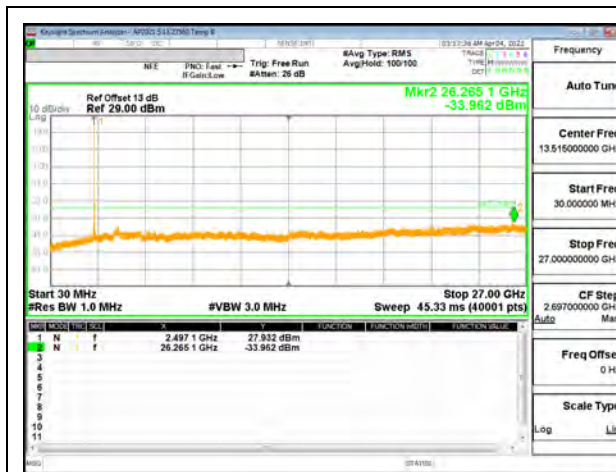
5G NR n41 30MHz BPSK Low Channel RB1-0



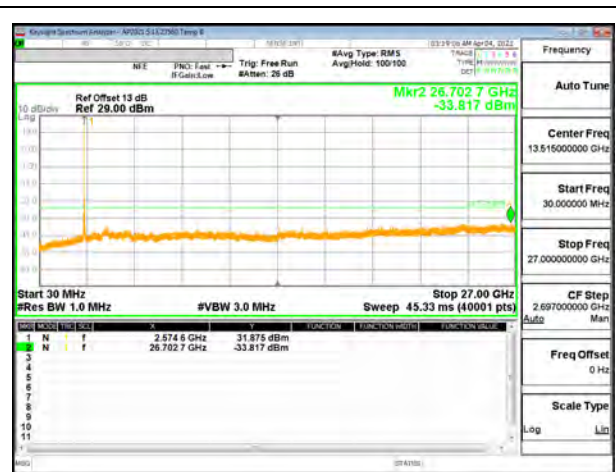
5G NR n41 30MHz BPSK Middle Channel RB1-1



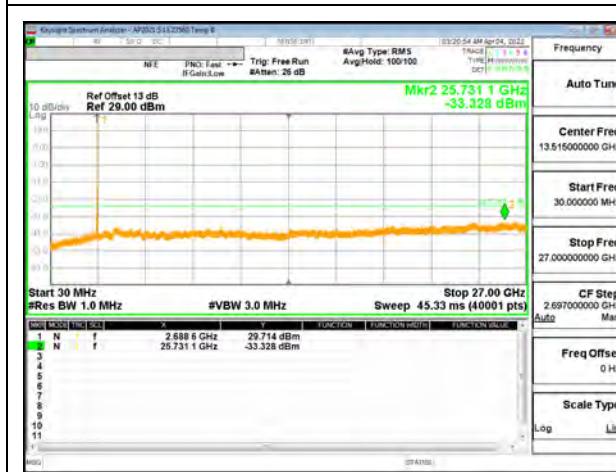
5G NR n41 30MHz BPSK High Channel RB1-77



5G NR n41 40MHz BPSK Low Channel RB1-0



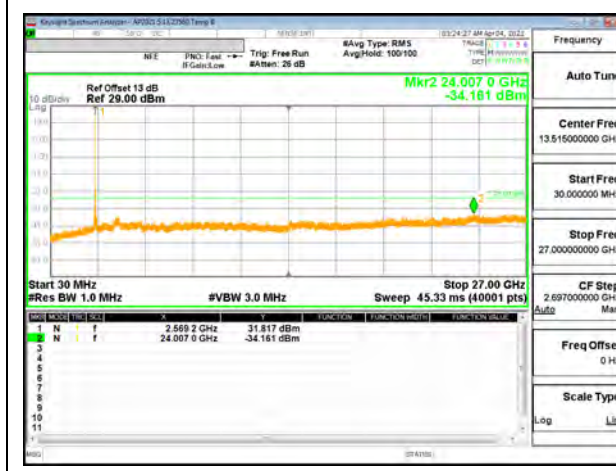
5G NR n41 40MHz BPSK Middle Channel RB1-1



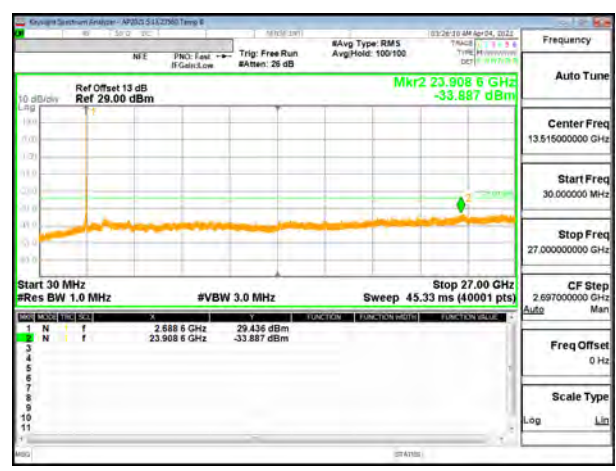
5G NR n41 40MHz BPSK High Channel RB1-105



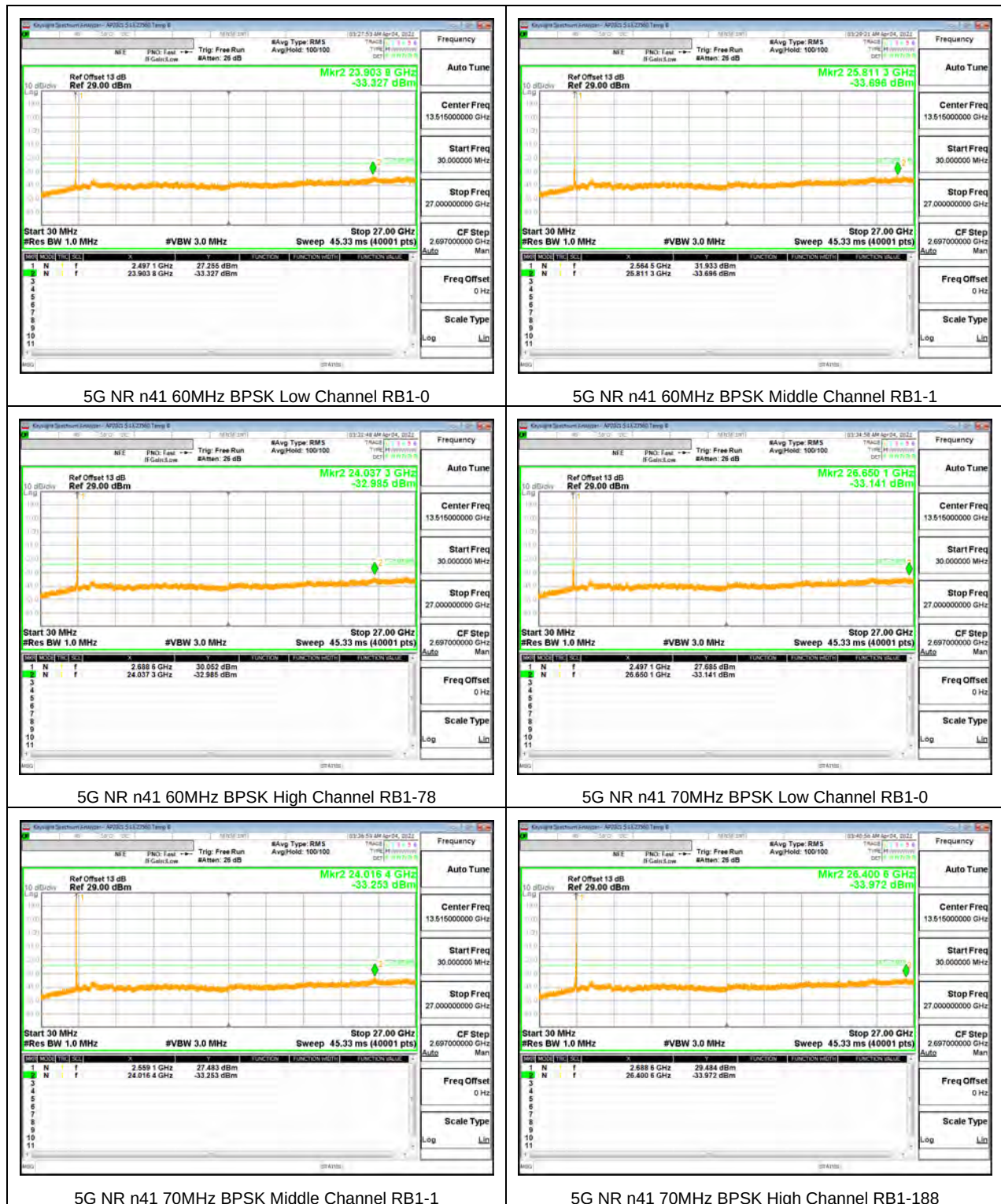
5G NR n41 50MHz BPSK Low Channel RB1-0

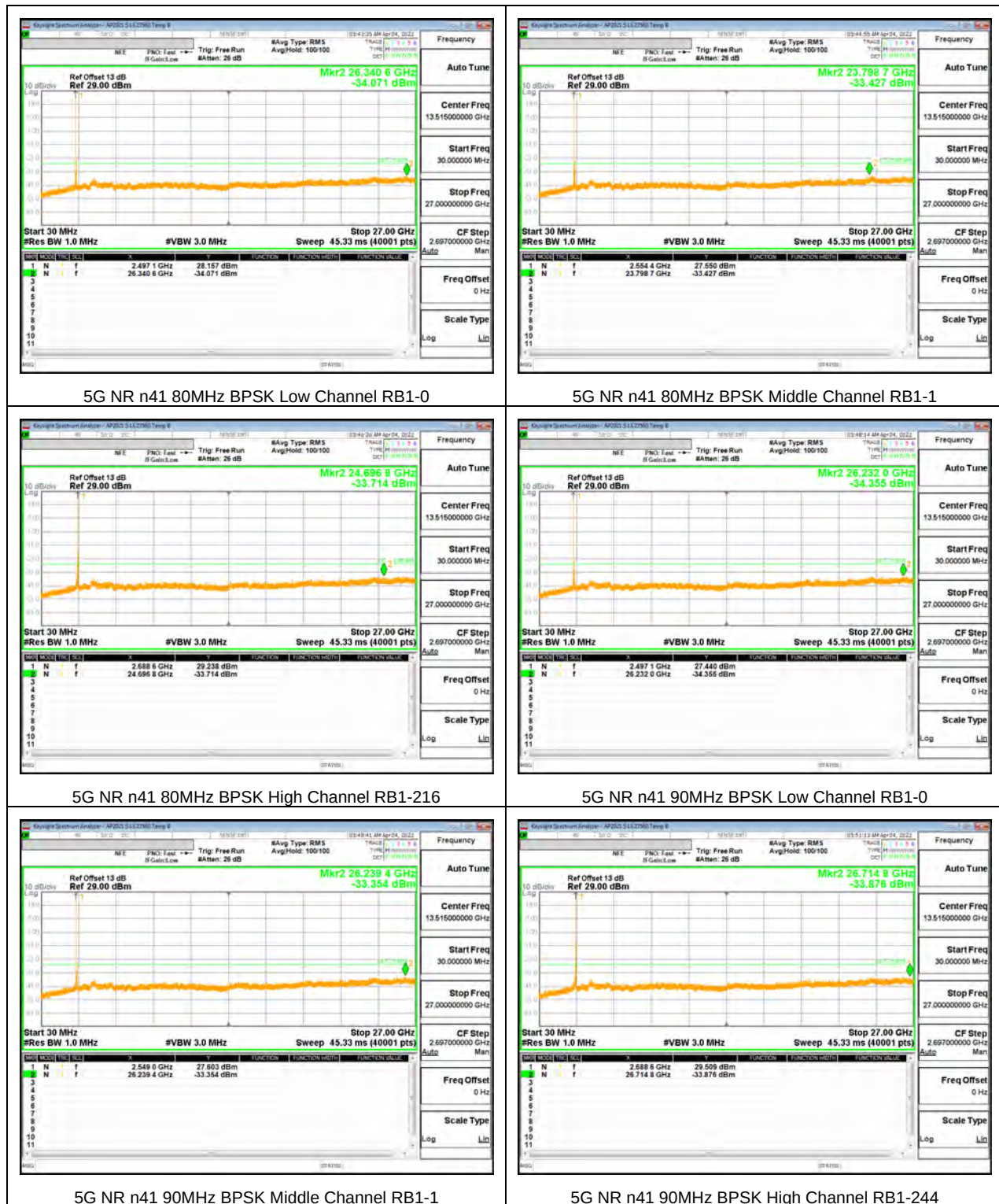


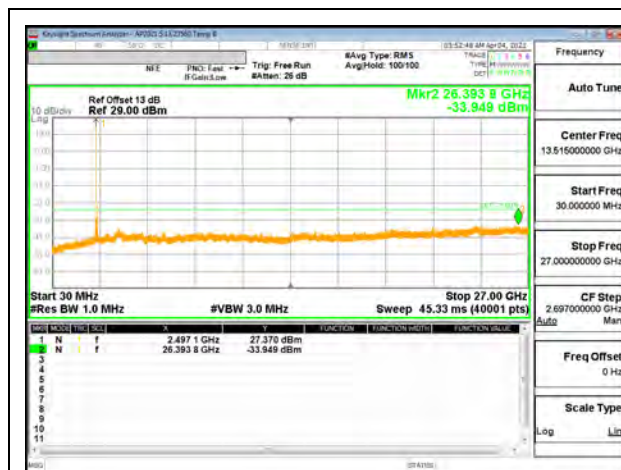
5G NR n41 50MHz BPSK Middle Channel RB1-1



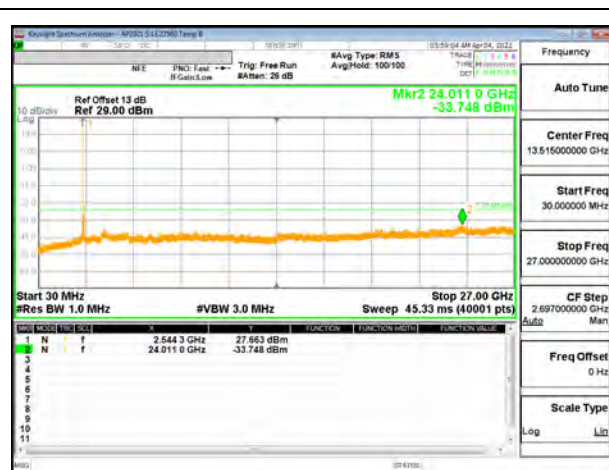
5G NR n41 50MHz BPSK High Channel RB1-132



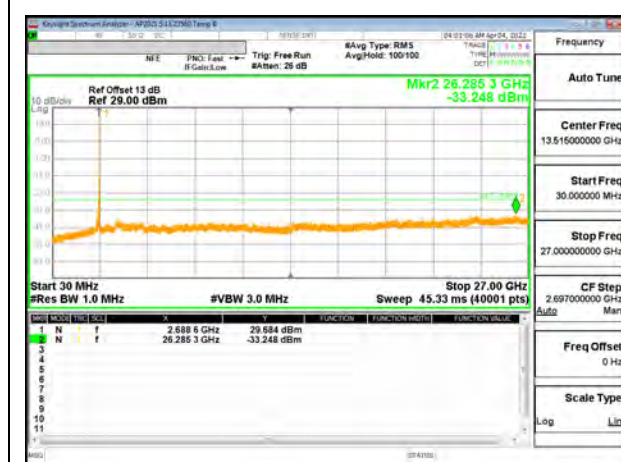




5G NR n41 100MHz BPSK Low Channel RB1-0



5G NR n41 100MHz BPSK Middle Channel RB1-1



5G NR n41 100MHz BPSK High Channel RB1-272

9.3.11. LTE BAND 48

LIMITS

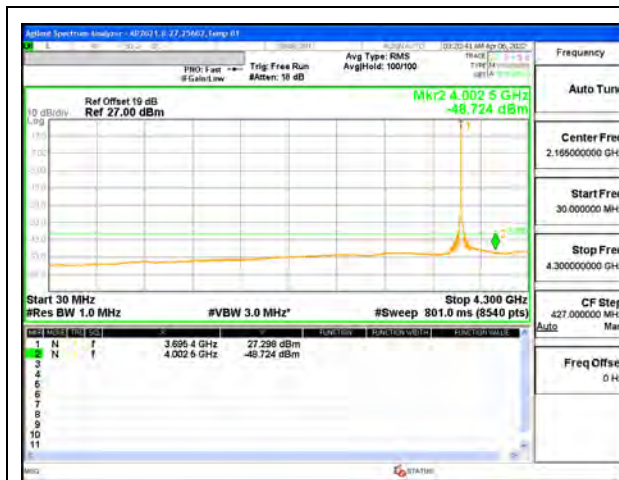
FCC: §96.41

(e) 3.5 GHz Emissions and Interference Limits—

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

LTE BAND 48





LTE B48 5MHz QPSK High Channel RB1-0 (30MHz to 4GHz)



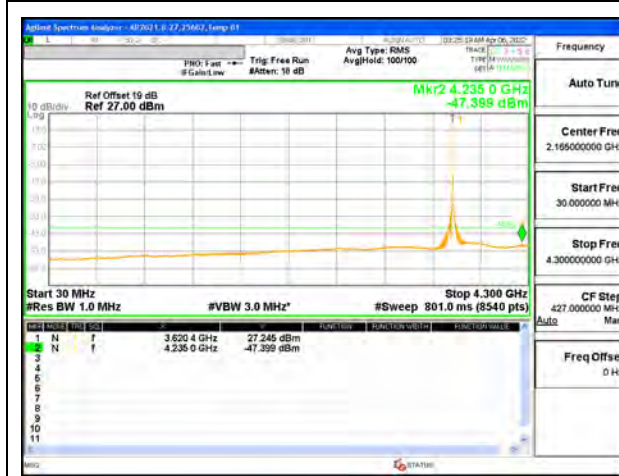
LTE B48 5MHz QPSK High Channel RB1-0 (4G to 40G)



LTE B48 10MHz QPSK Low Channel RB1-0 (30MHz to 4GHz)



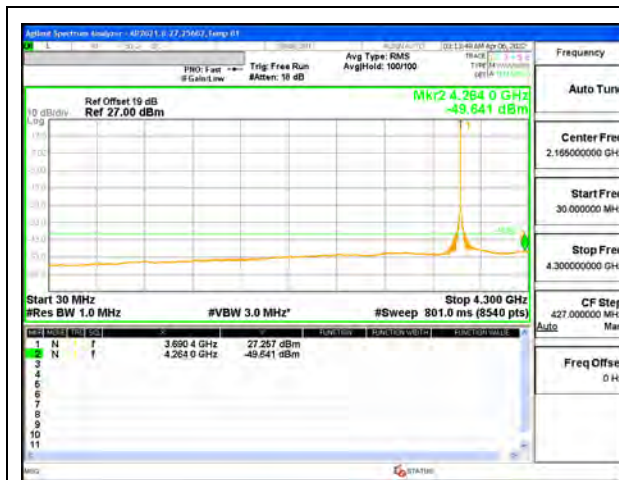
LTE B48 10MHz QPSK Low Channel RB1-0 (4G to 40G)



LTE B48 10MHz QPSK Mid Channel RB1-0 (30MHz to 4GHz)



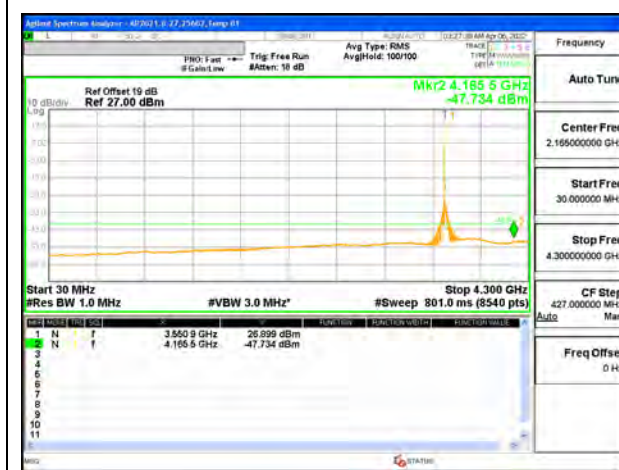
LTE B48 10MHz QPSK Middle Channel RB1-0 (4G to 40G)



LTE B48 10MHz QPSK High Channel RB1-0 (30MHz to 4GHz)



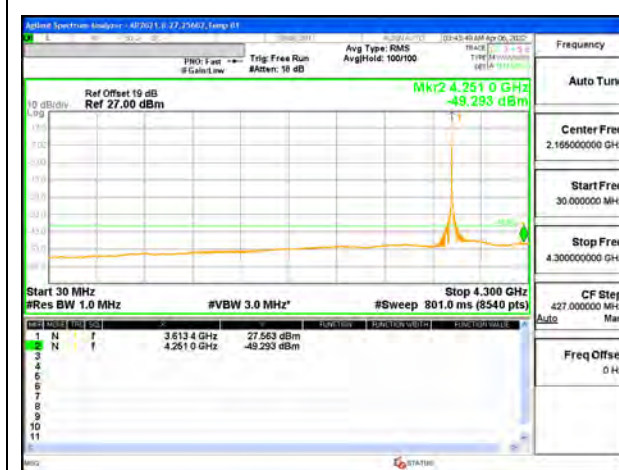
LTE B48 10MHz QPSK High Channel RB1-0 (4G to 40G)



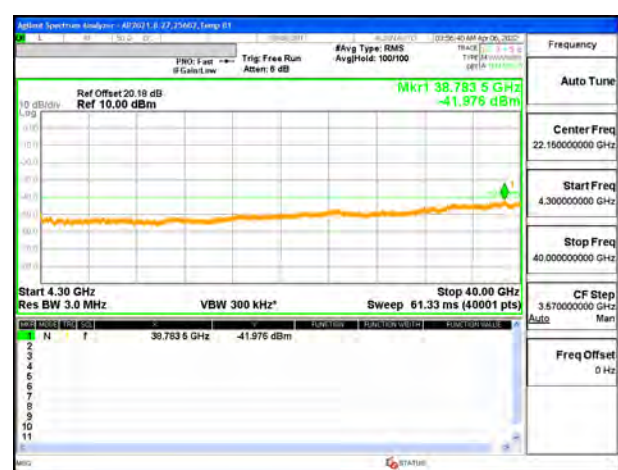
LTE B48 15MHz QPSK Low Channel RB1-0 (30MHz to 4GHz)



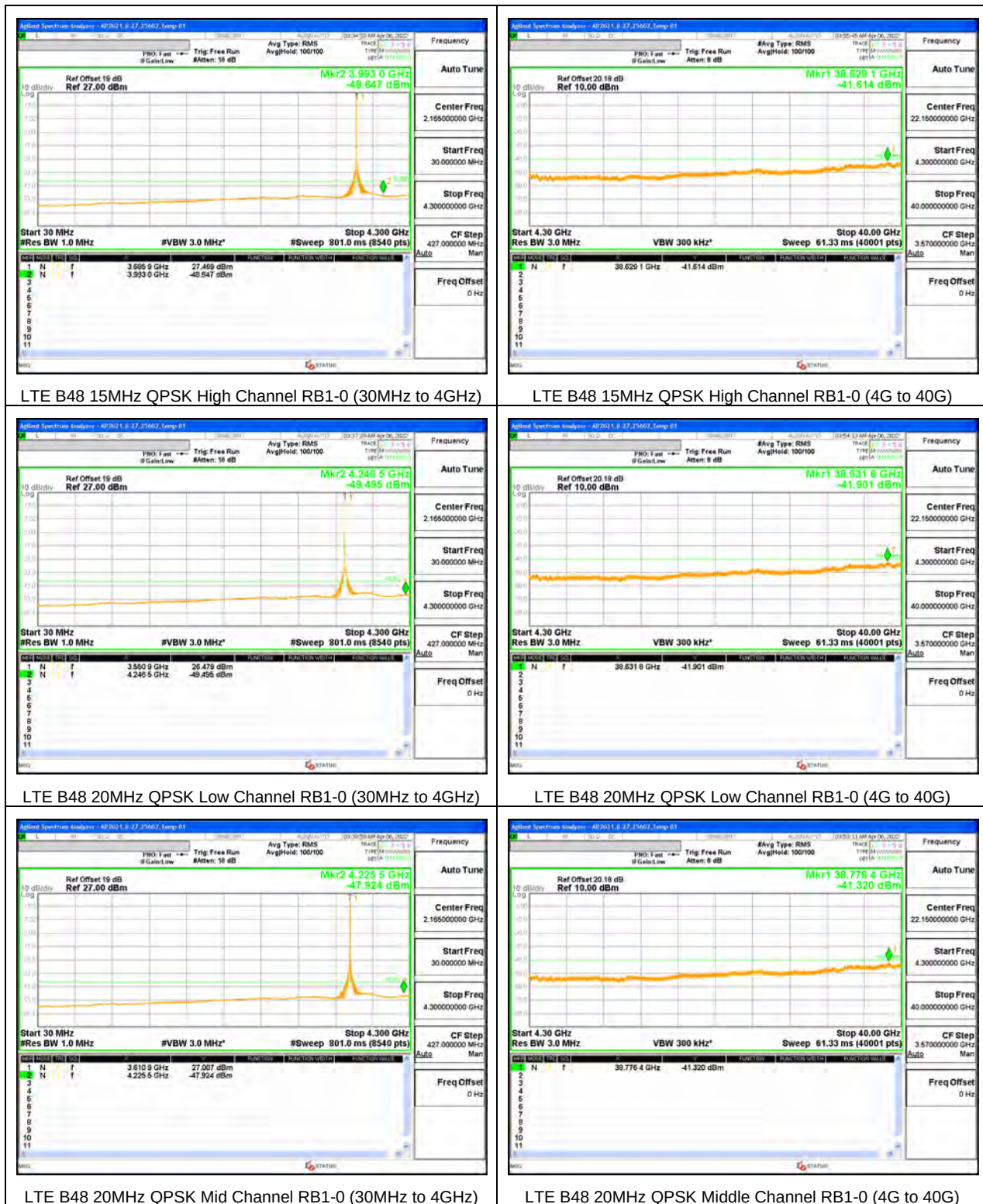
LTE B48 15MHz QPSK Low Channel RB1-0 (4G to 40G)

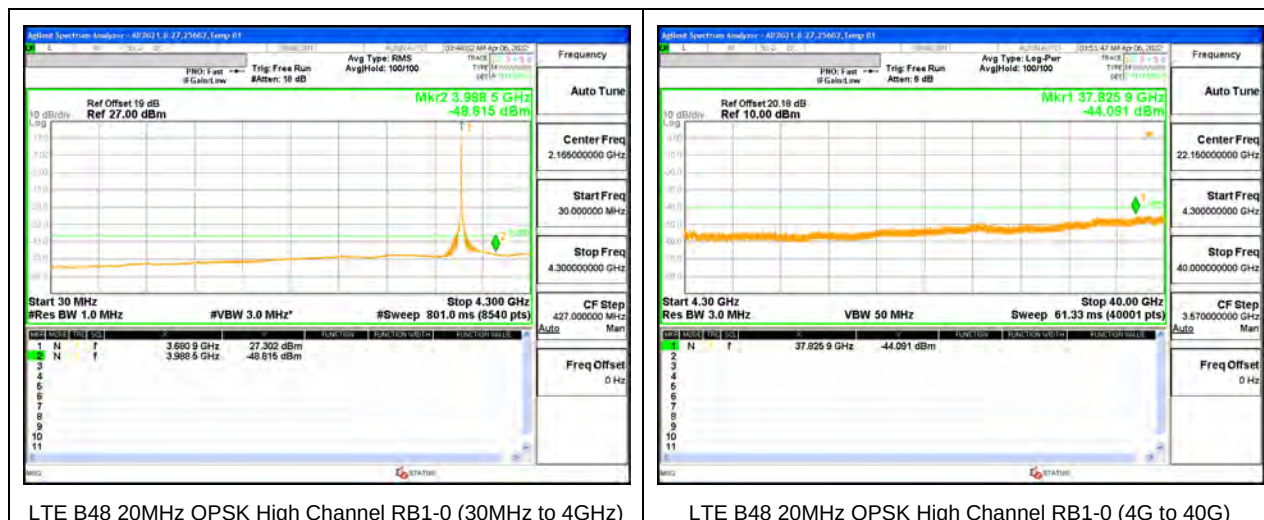


LTE B48 15MHz QPSK Mid Channel RB1-0 (30MHz to 4GHz)



LTE B48 15MHz QPSK Middle Channel RB1-0 (4G to 40G)





9.3.12. LTE BAND 66 AND 5G NR n66

LIMITS

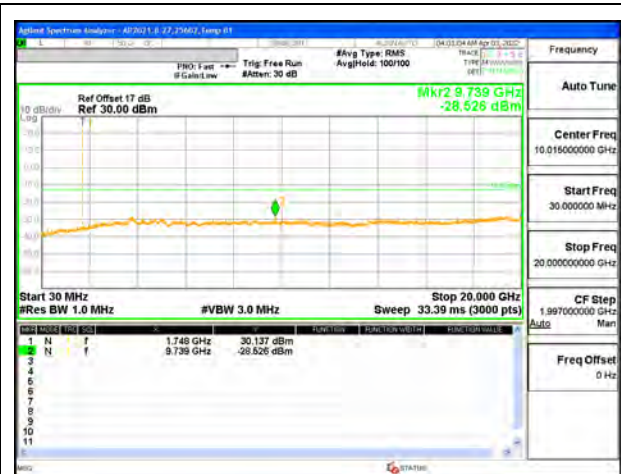
FCC: §27.53 (h)

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

LTE BAND 66



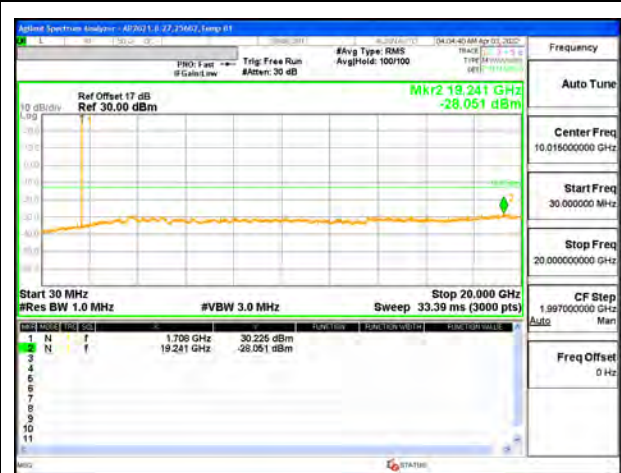
LTE B66 1.4MHz QPSK Low Channel RB1-0



LTE B66 1.4MHz QPSK Middle Channel RB1-0

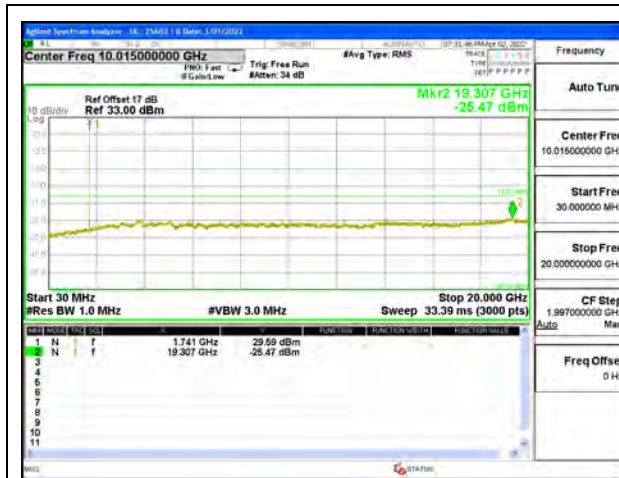


LTE B66 1.4MHz QPSK High Channel RB1-0

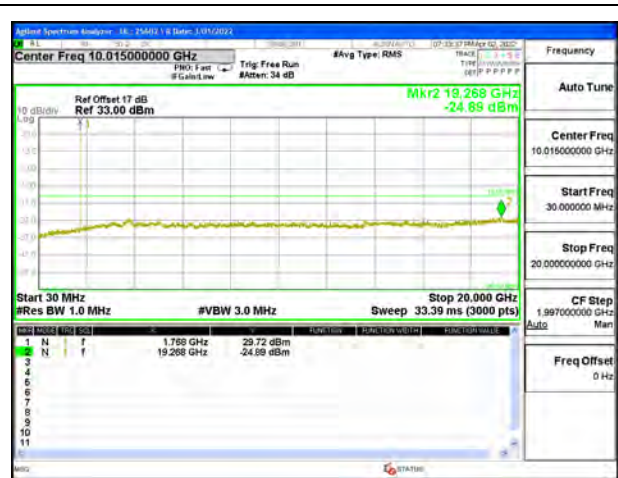


LTE B66 3MHz QPSK Low Channel RB1-0





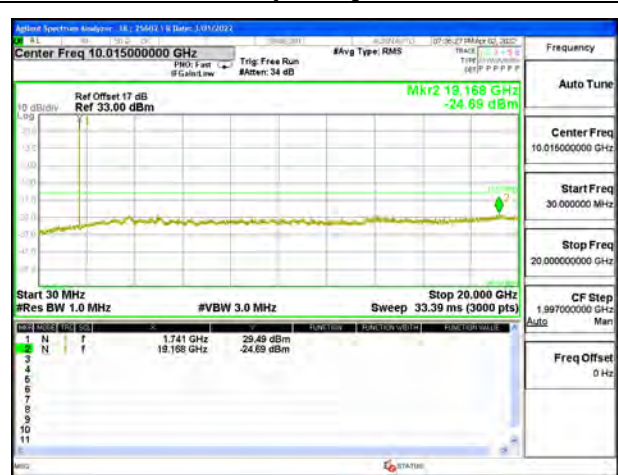
LTE B66 10MHz QPSK Middle Channel RB1-0



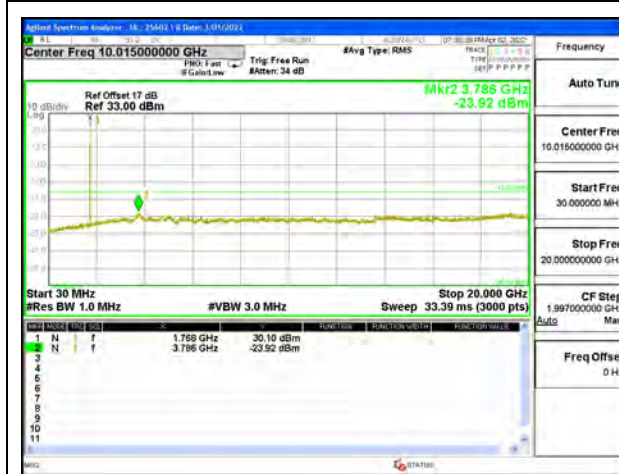
LTE B66 10MHz QPSK High Channel RB1-0



LTE B66 15MHz QPSK Low Channel RB1-0



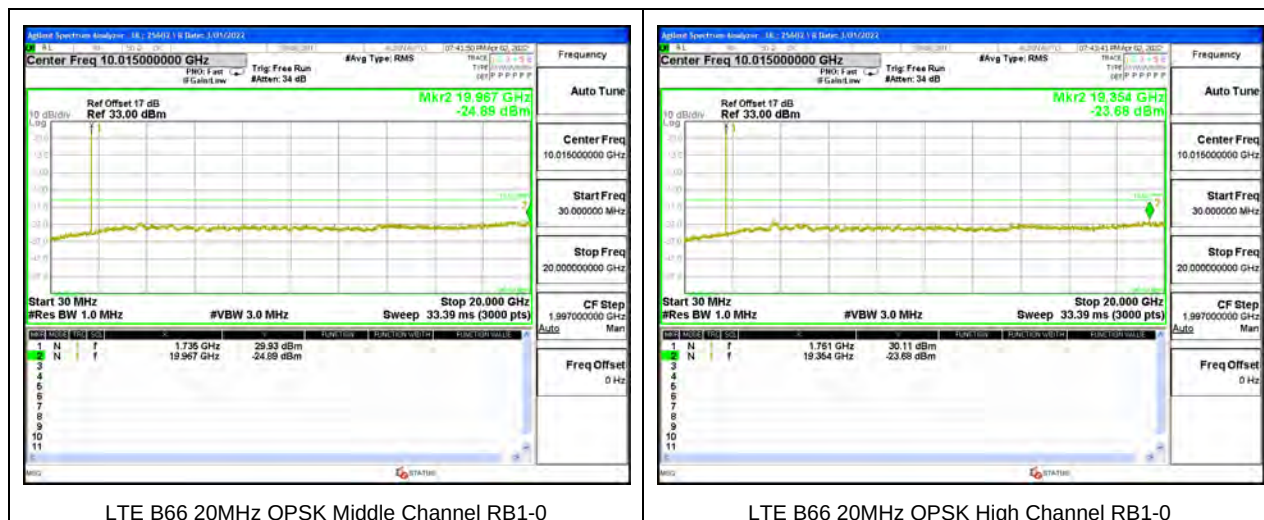
LTE B66 15MHz QPSK Middle Channel RB1-0



LTE B66 15MHz QPSK High Channel RB1-0



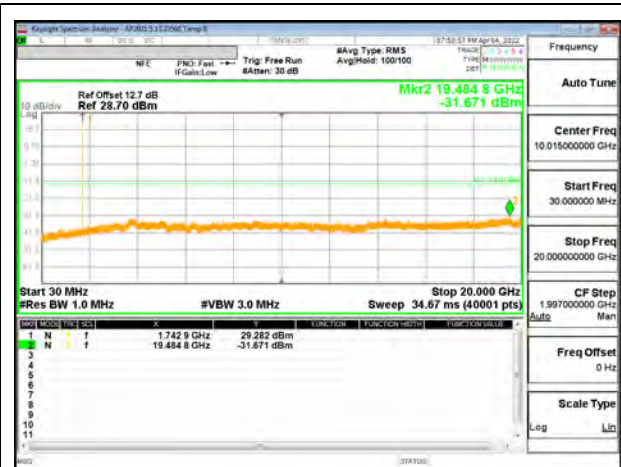
LTE B66 20MHz QPSK Low Channel RB1-0



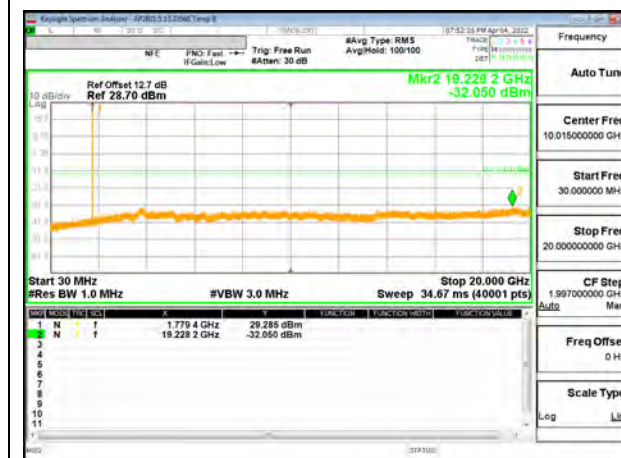
5G NR n66



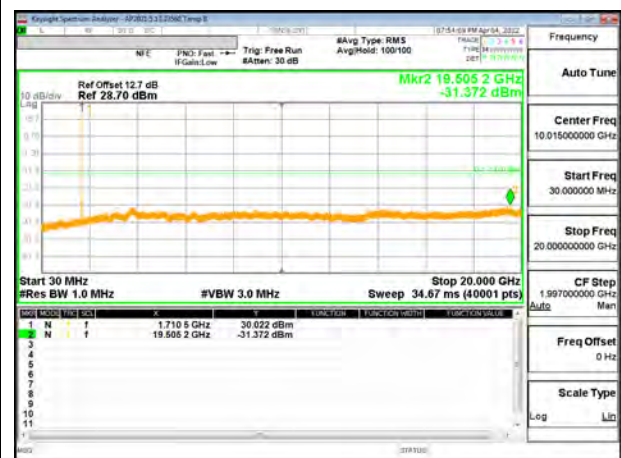
5G NR n66 5MHz BPSK Low Channel RB1-0



5G NR n66 5MHz BPSK Middle Channel RB1-1



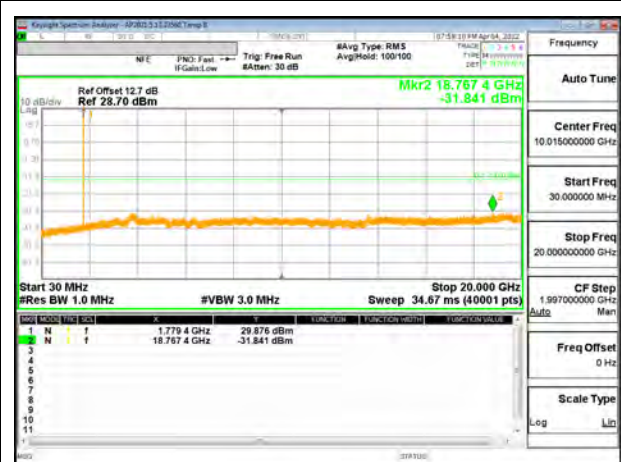
5G NR n66 5MHz BPSK High Channel RB1-24



5G NR n66 10MHz BPSK Low Channel RB1-0



5G NR n66 10MHz BPSK Middle Channel RB1-1



5G NR n66 10MHz BPSK High Channel RB1-51



5G NR n66 15MHz BPSK Low Channel RB1-0



5G NR n66 15MHz BPSK Middle Channel RB1-1



5G NR n66 15MHz BPSK High Channel RB1-78



5G NR n66 20MHz BPSK Low Channel RB1-0



5G NR n66 20MHz BPSK Middle Channel RB1-1



5G NR n66 20MHz BPSK High Channel RB1-105



5G NR n66 30MHz BPSK Low Channel RB1-0



5G NR n66 30MHz BPSK Middle Channel RB1-1



5G NR n66 30MHz BPSK High Channel RB1-159



5G NR n66 40MHz BPSK Low Channel RB1-0



5G NR n66 40MHz BPSK Middle Channel RB1-1



5G NR n66 40MHz BPSK High Channel RB1-215

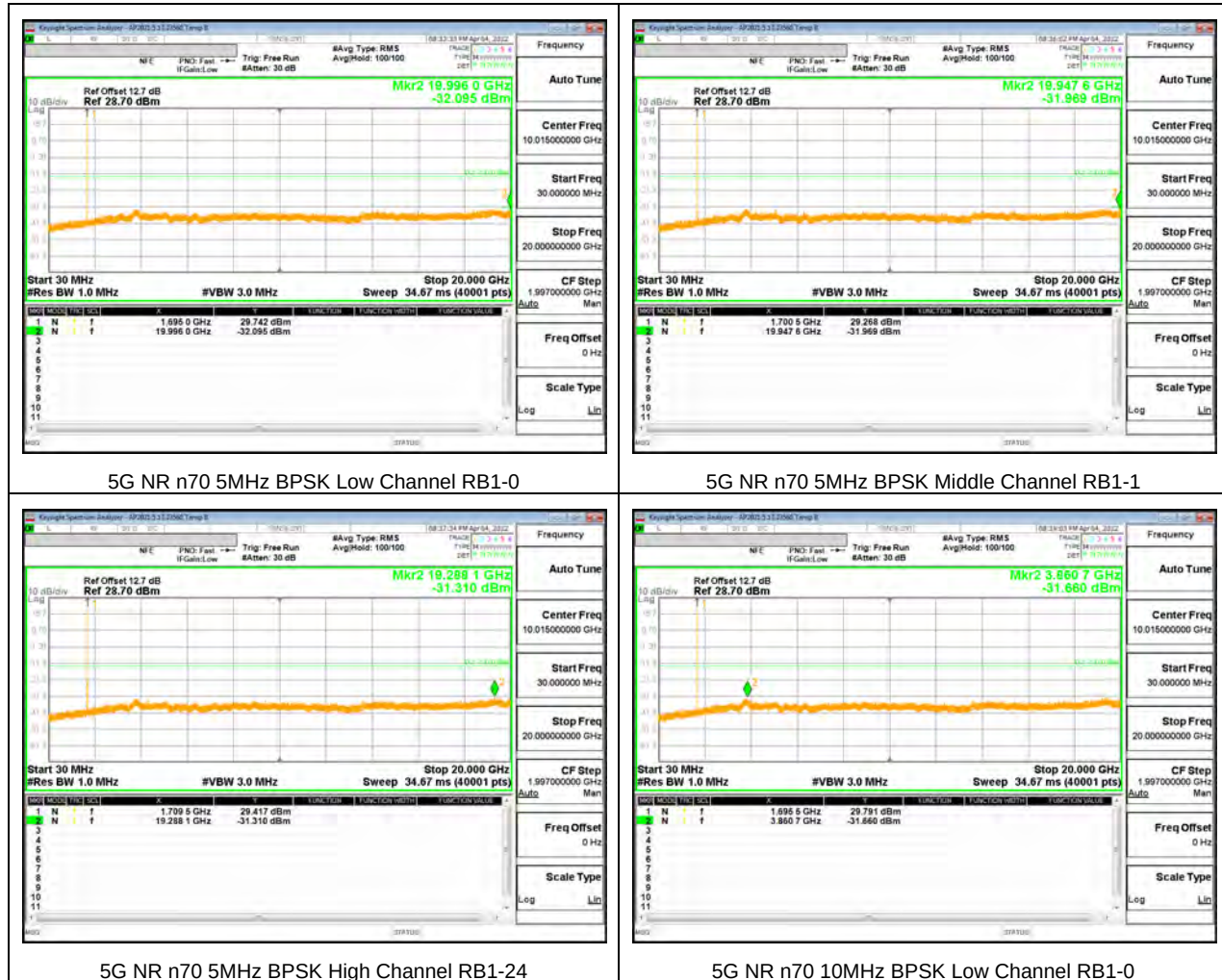
9.3.13. 5G NR n70

LIMITS

FCC: §27.53 (h)

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

5G NR n70





5G NR n70 10MHz BPSK Middle Channel RB1-1



5G NR n70 10MHz BPSK High Channel RB1-51



5G NR n70 15MHz BPSK Middle Channel RB1-0

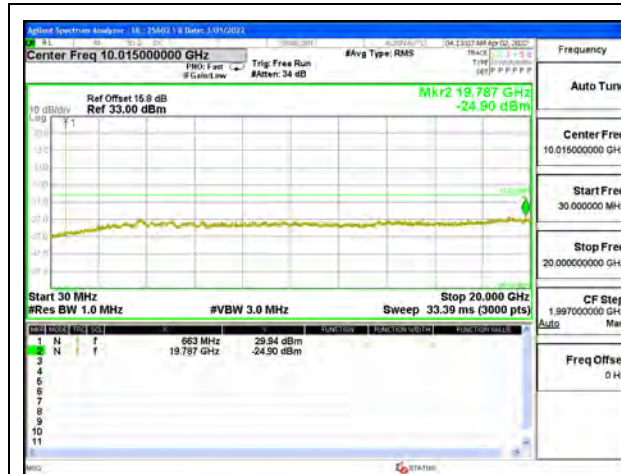
9.3.14. LTE BAND 71 AND 5G NR n71

LIMITS

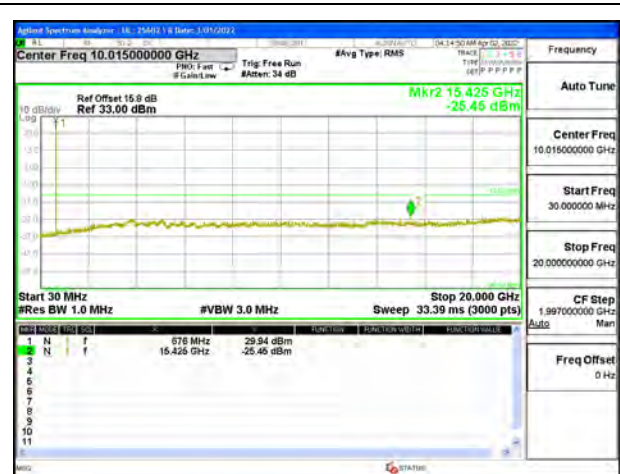
FCC: §27.53 (g)

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

LTE BAND 71



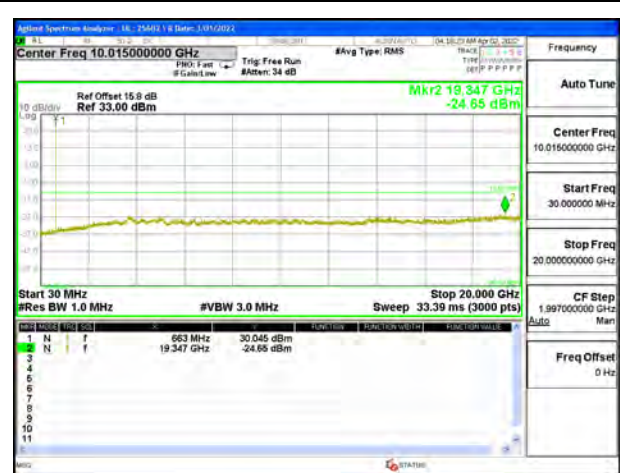
LTE B71 5MHz QPSK Low Channel RB1-0



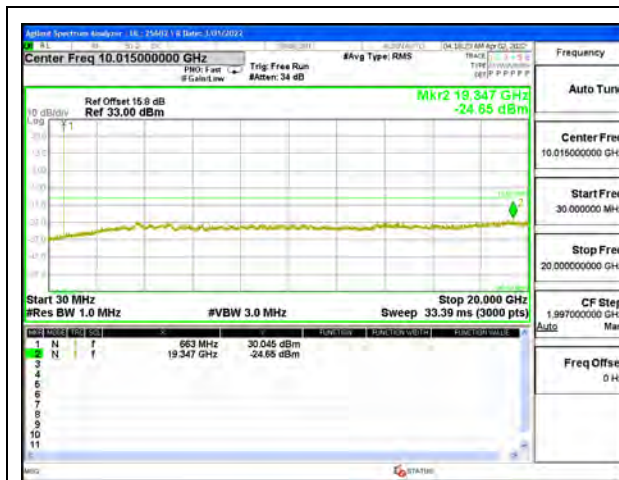
LTE B71 5MHz QPSK Middle Channel RB1-0



LTE B71 5MHz QPSK High Channel RB1-0



LTE B71 10MHz QPSK Low Channel RB1-0



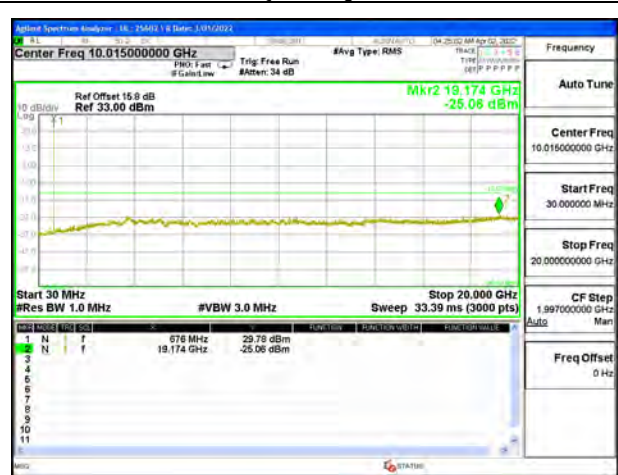
LTE B71 10MHz QPSK Middle Channel RB1-0



LTE 71 10MHz QPSK High Channel RB1-0



LTE B71 15MHz QPSK Low Channel RB1-0



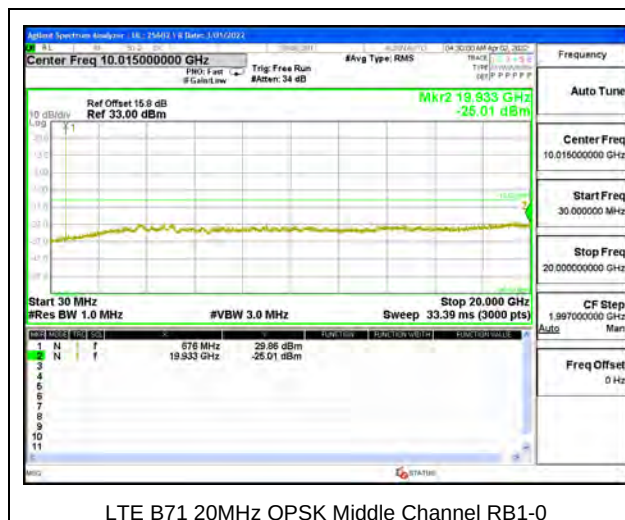
LTE B71 15MHz QPSK Middle Channel RB1-0



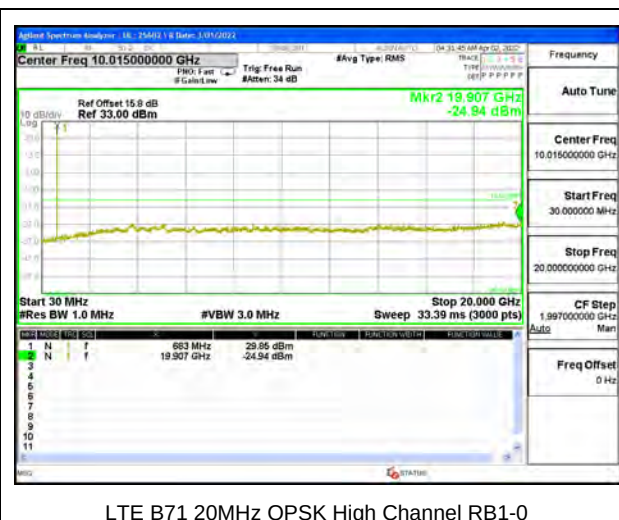
LTE B71 15MHz QPSK High Channel RB1-0



LTE B71 20MHz QPSK Low Channel RB1-0



LTE B71 20MHz QPSK Middle Channel RB1-0



LTE B71 20MHz QPSK High Channel RB1-0

5G NR n71



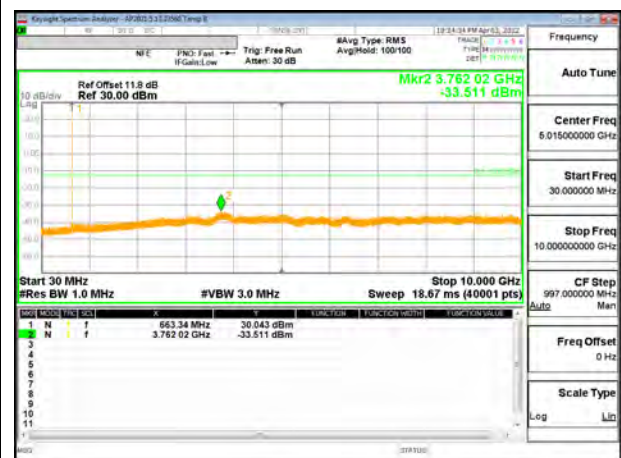
5G NR n71 5MHz BPSK Low Channel RB1-0



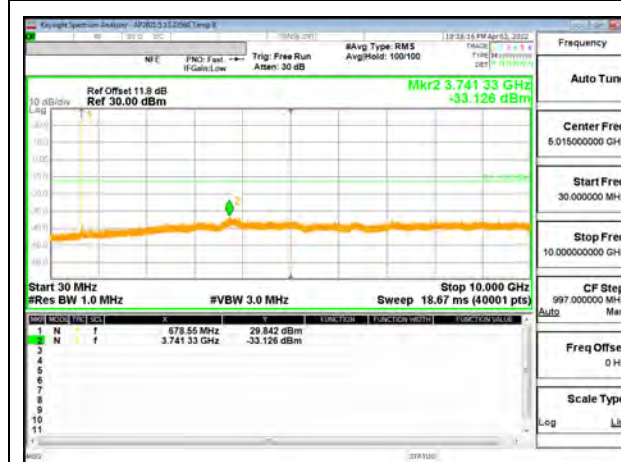
5G NR n71 5MHz BPSK Middle Channel RB1-1



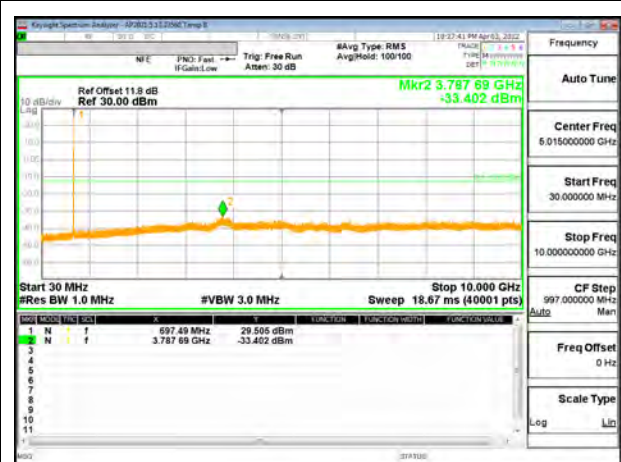
5G NR n71 5MHz BPSK High Channel RB1-24



5G NR n71 10MHz BPSK Low Channel RB1-0



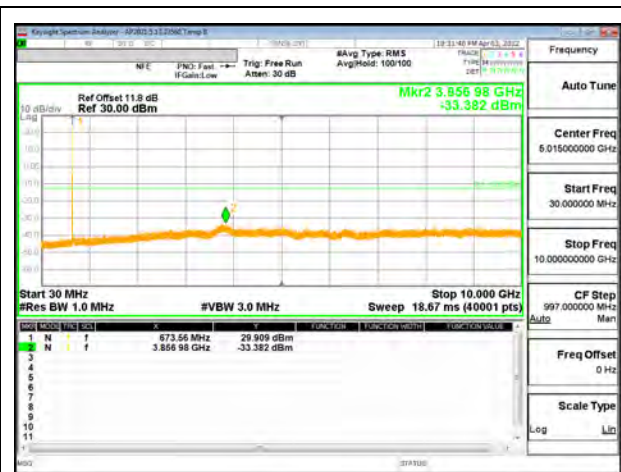
5G NR n71 10MHz BPSK Middle Channel RB1-1



5G NR n71 10MHz BPSK High Channel RB1-51



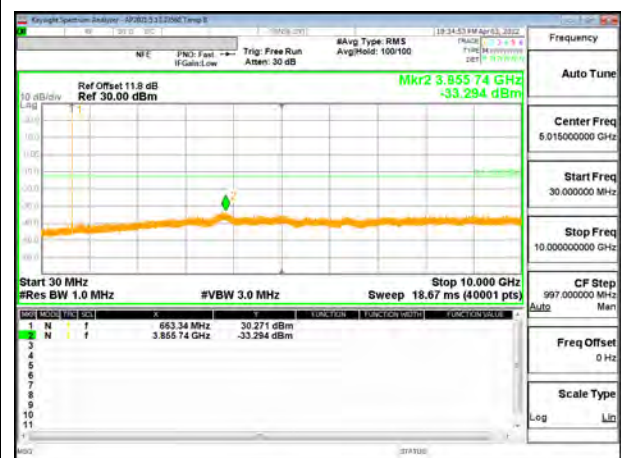
5G NR n71 15MHz BPSK Low Channel RB1-0



5G NR n71 15MHz BPSK Middle Channel RB1-1



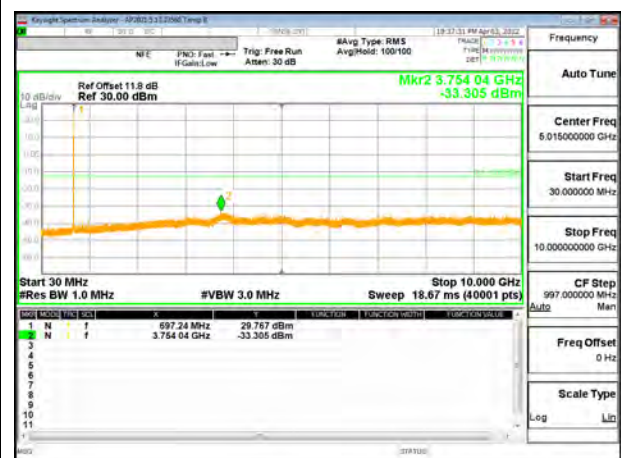
5G NR n71 15MHz BPSK High Channel RB1-78



5G NR n71 20MHz BPSK Low Channel RB1-0



5G NR n71 20MHz BPSK Middle Channel RB1-1



5G NR n71 20MHz BPSK High Channel RB1-105

9.3.15. 5G NR n77 (FCC Part 27 3450-3550MHz)

LIMITS

FCC: §27.53

Emission limits

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450-3550 MHz band:

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.



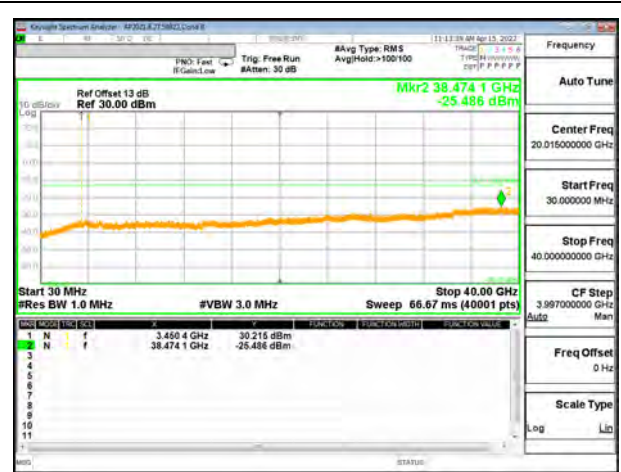
5G NR n77 10MHz BPSK Low Channel RB1-0



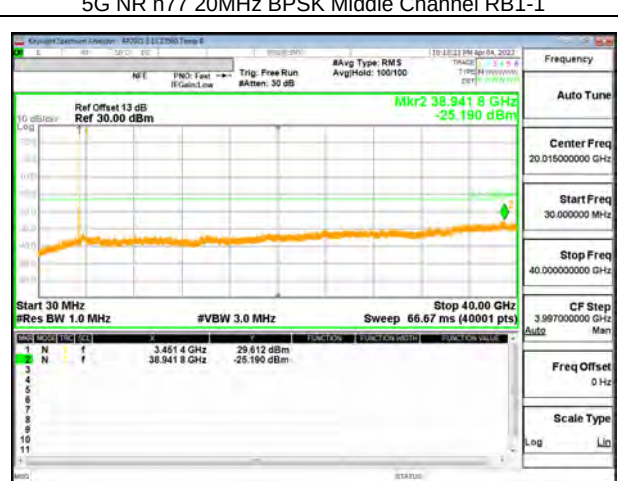
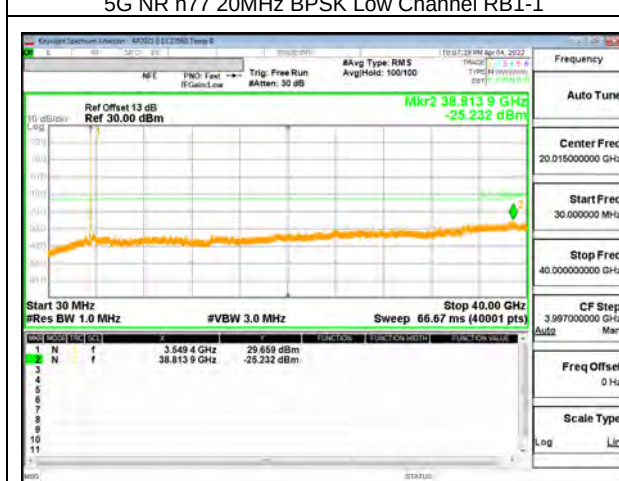
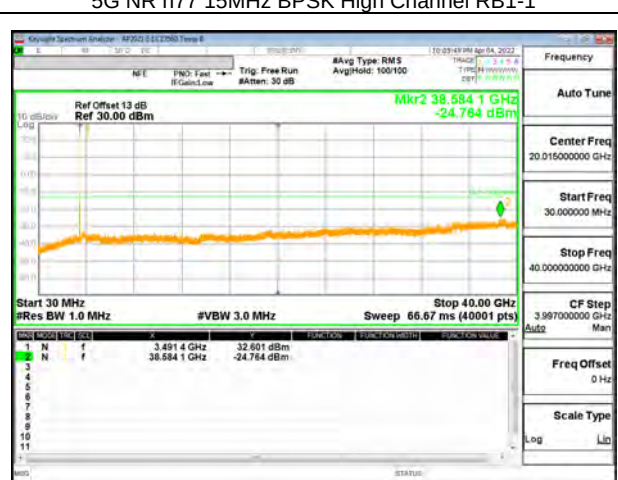
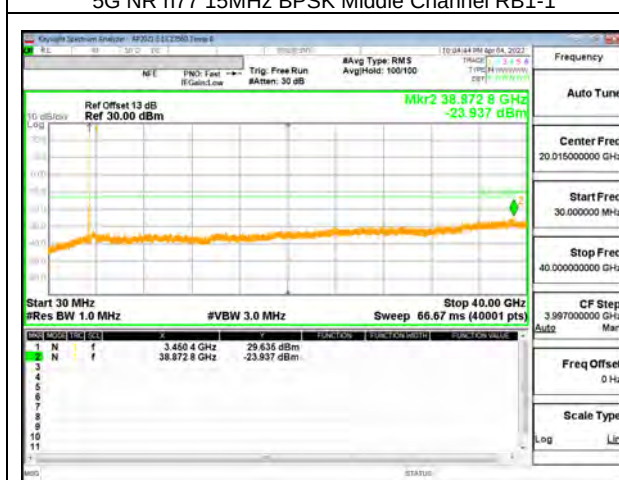
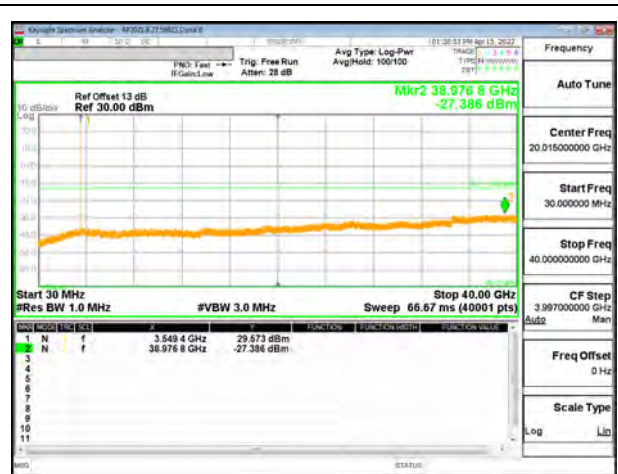
5G NR n77 10MHz BPSK Middle Channel RB1-1

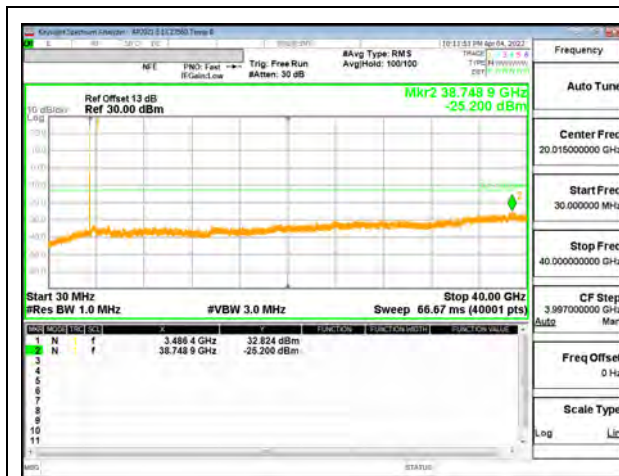


5G NR n77 10MHz BPSK High Channel RB1-23

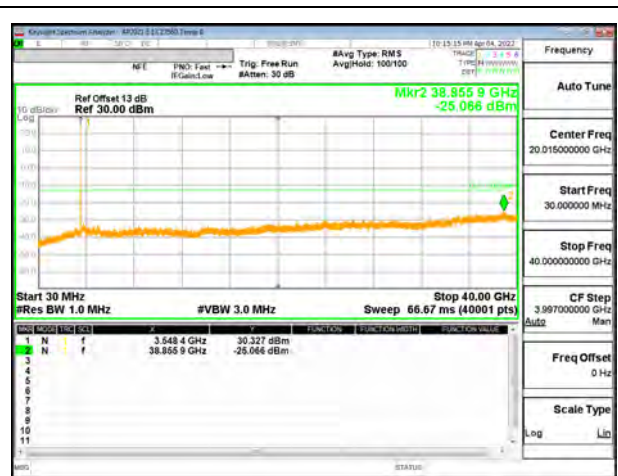


5G NR n77 15MHz BPSK Low Channel RB1-0





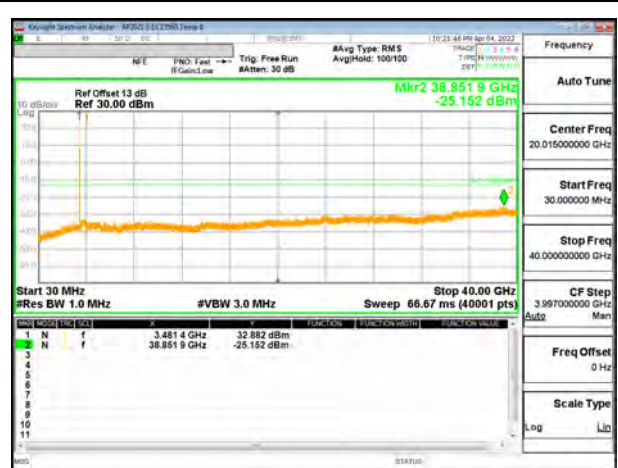
5G NR n77 30MHz BPSK Middle Channel RB1-1



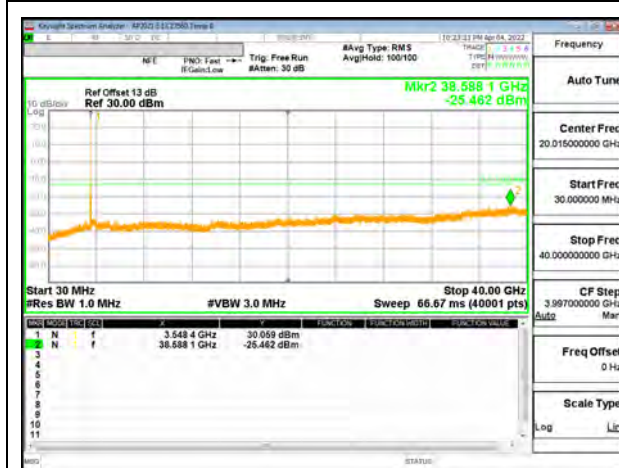
5G NR n77 30MHz BPSK High Channel RB1-77



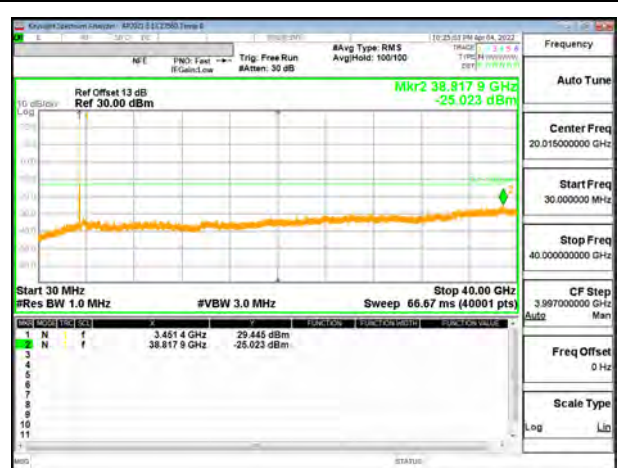
5G NR n77 40MHz BPSK Low Channel RB1-0



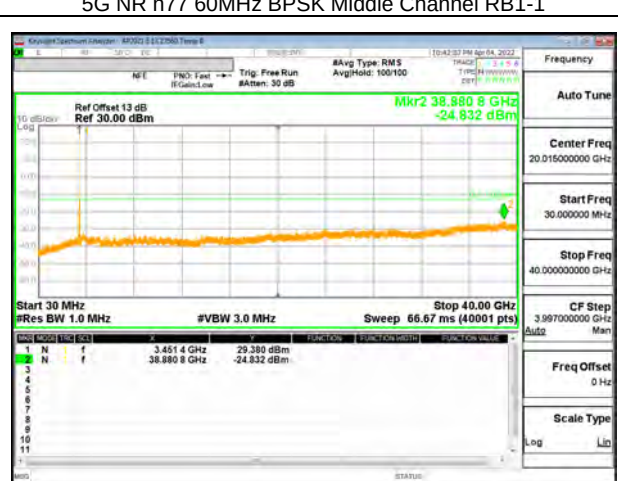
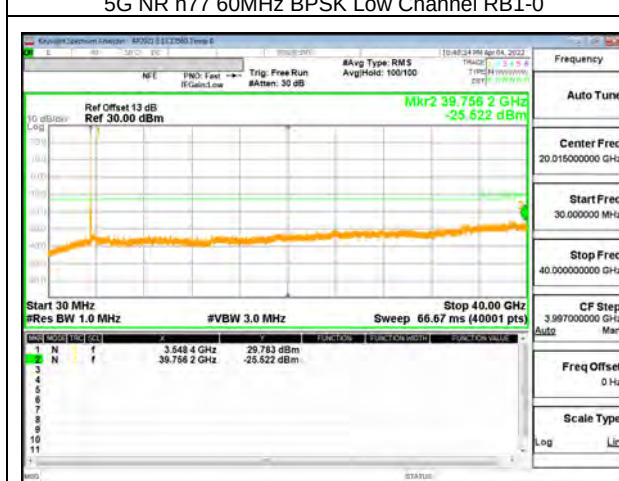
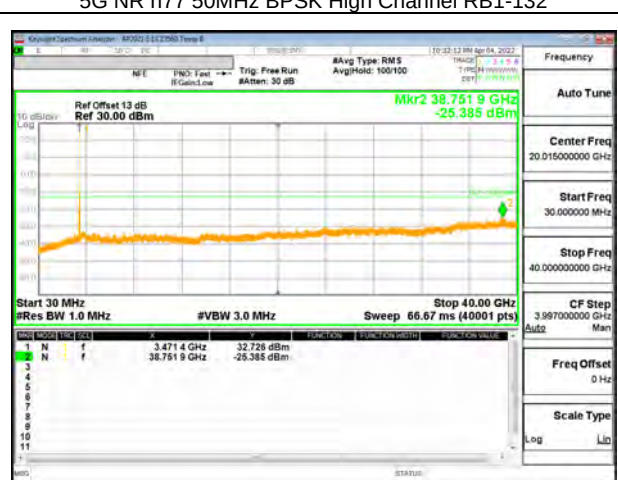
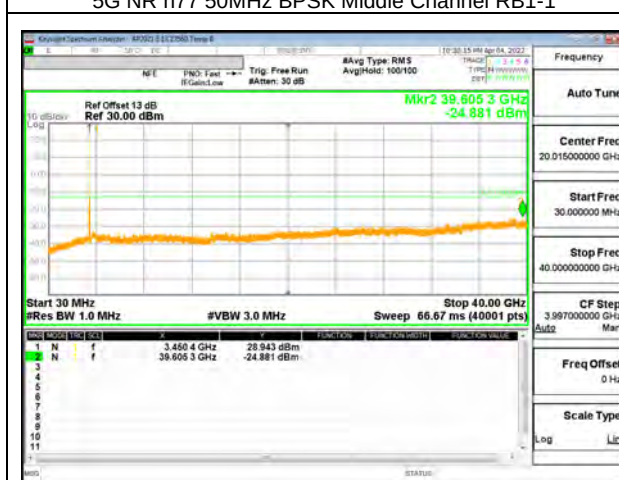
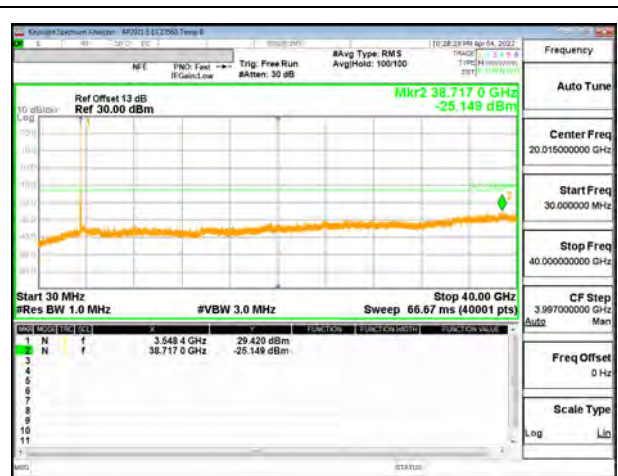
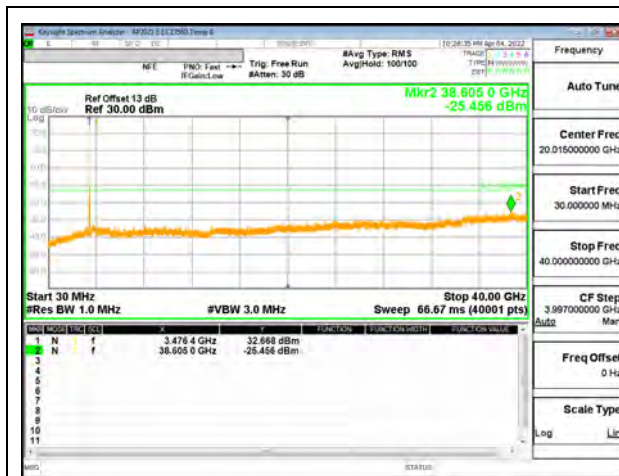
5G NR n77 40MHz BPSK Middle Channel RB1-1

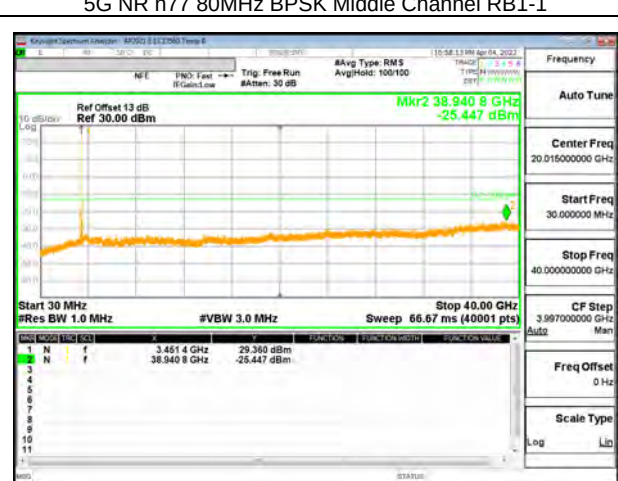
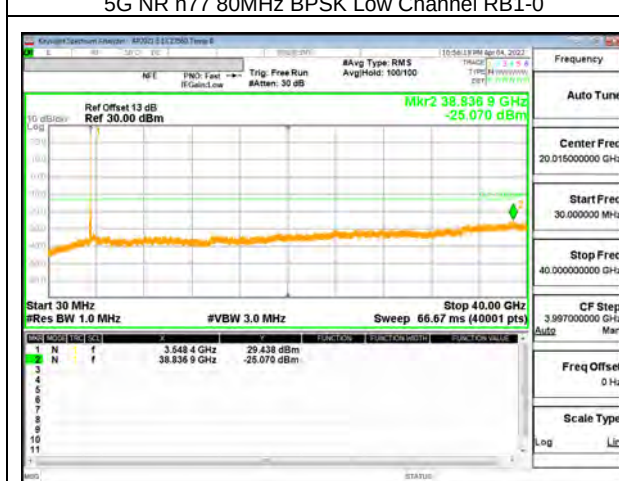
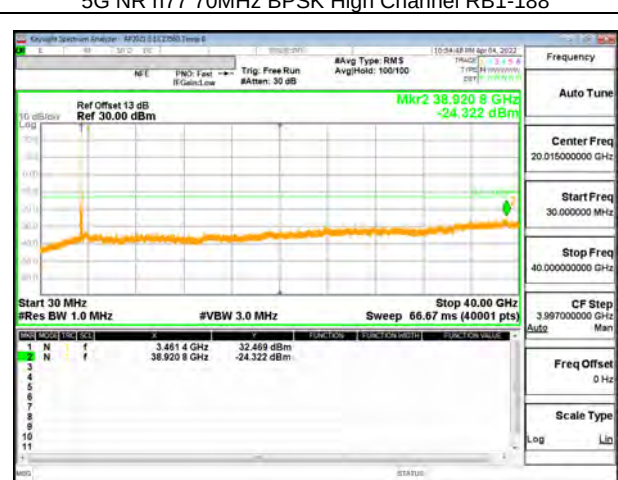
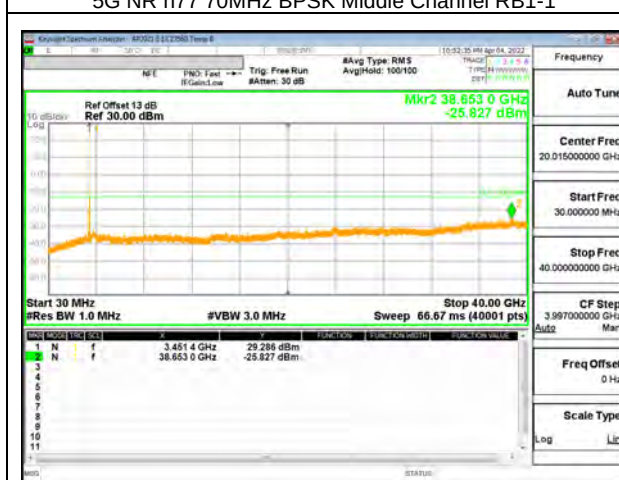
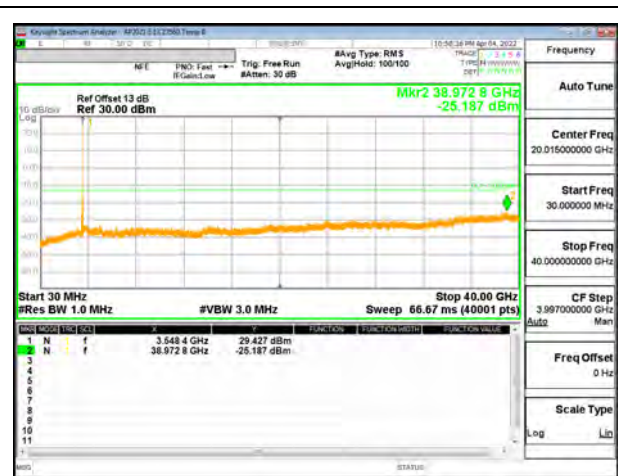


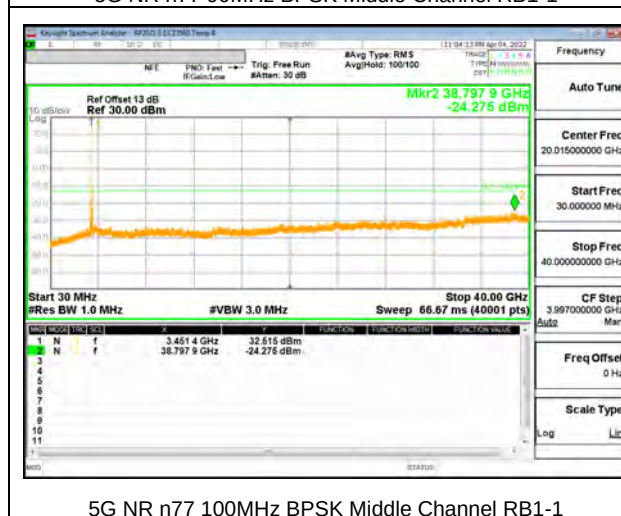
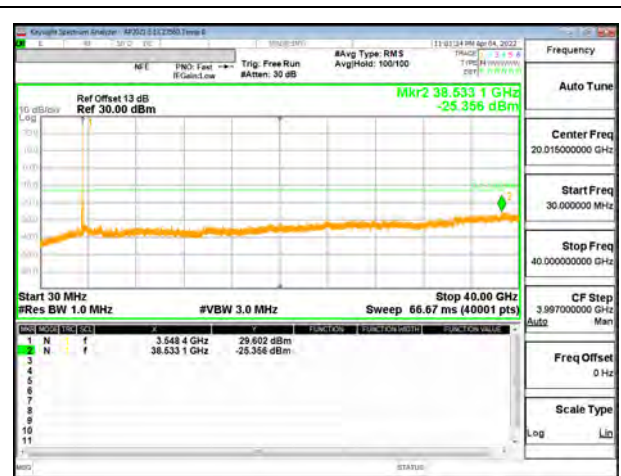
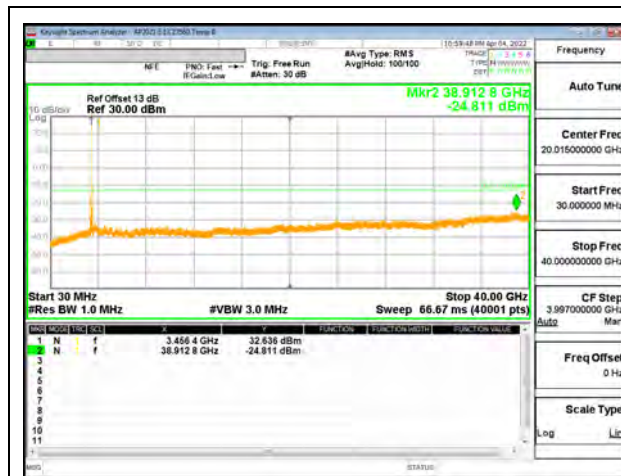
5G NR n77 40MHz BPSK High Channel RB1-105



5G NR n77 50MHz BPSK Low Channel RB1-0







9.3.16. 5G NR n77 (FCC Part 27 3700-3980MHz)

LIMITS

FCC: §27.53

Emission limits

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

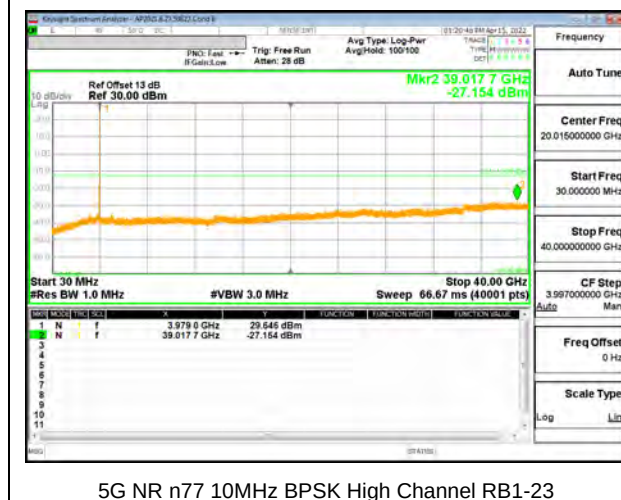
(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.



5G NR n77 10MHz BPSK Low Channel RB1-0



5G NR n77 10MHz BPSK Middle Channel RB1-1



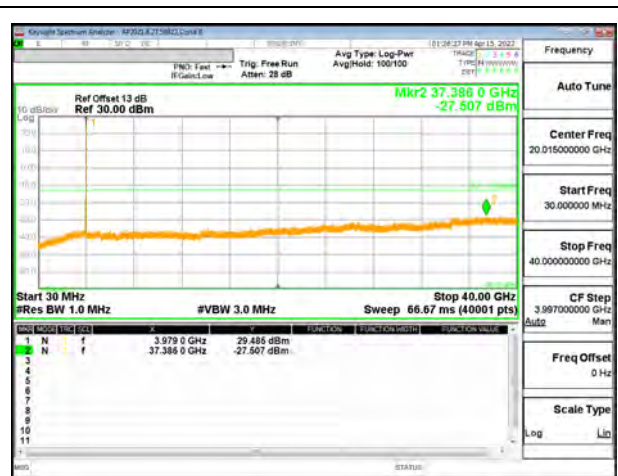
5G NR n77 10MHz BPSK High Channel RB1-23



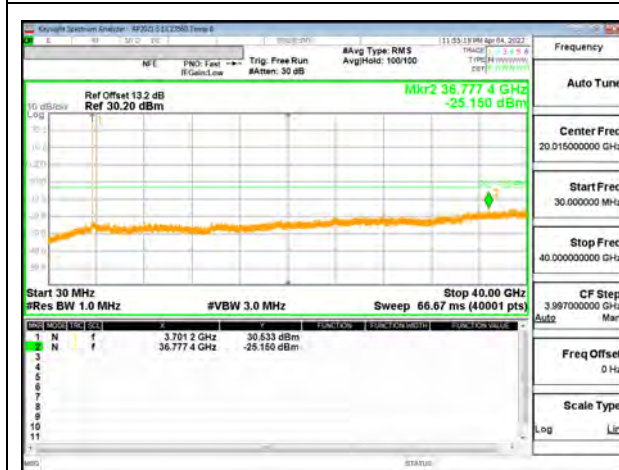
5G NR n77 15MHz BPSK Low Channel RB1-0



5G NR n77 15MHz BPSK Middle Channel RB1-1



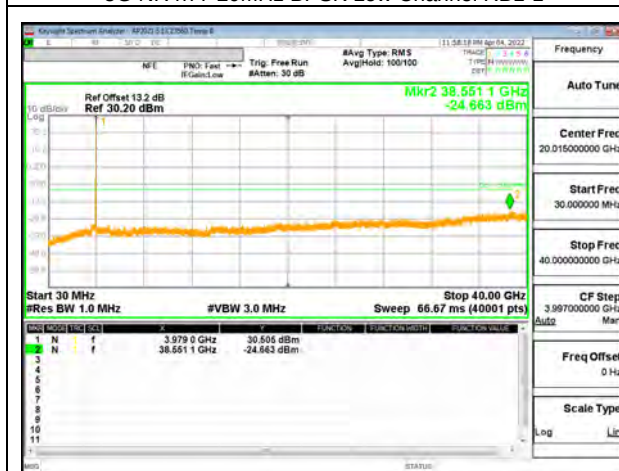
5G NR n77 15MHz BPSK High Channel RB1-37



5G NR n77 20MHz BPSK Low Channel RB1-1



5G NR n77 20MHz BPSK Middle Channel RB1-1



5G NR n77 20MHz BPSK High Channel RB1-50



5G NR n77 30MHz BPSK Low Channel RB1-0