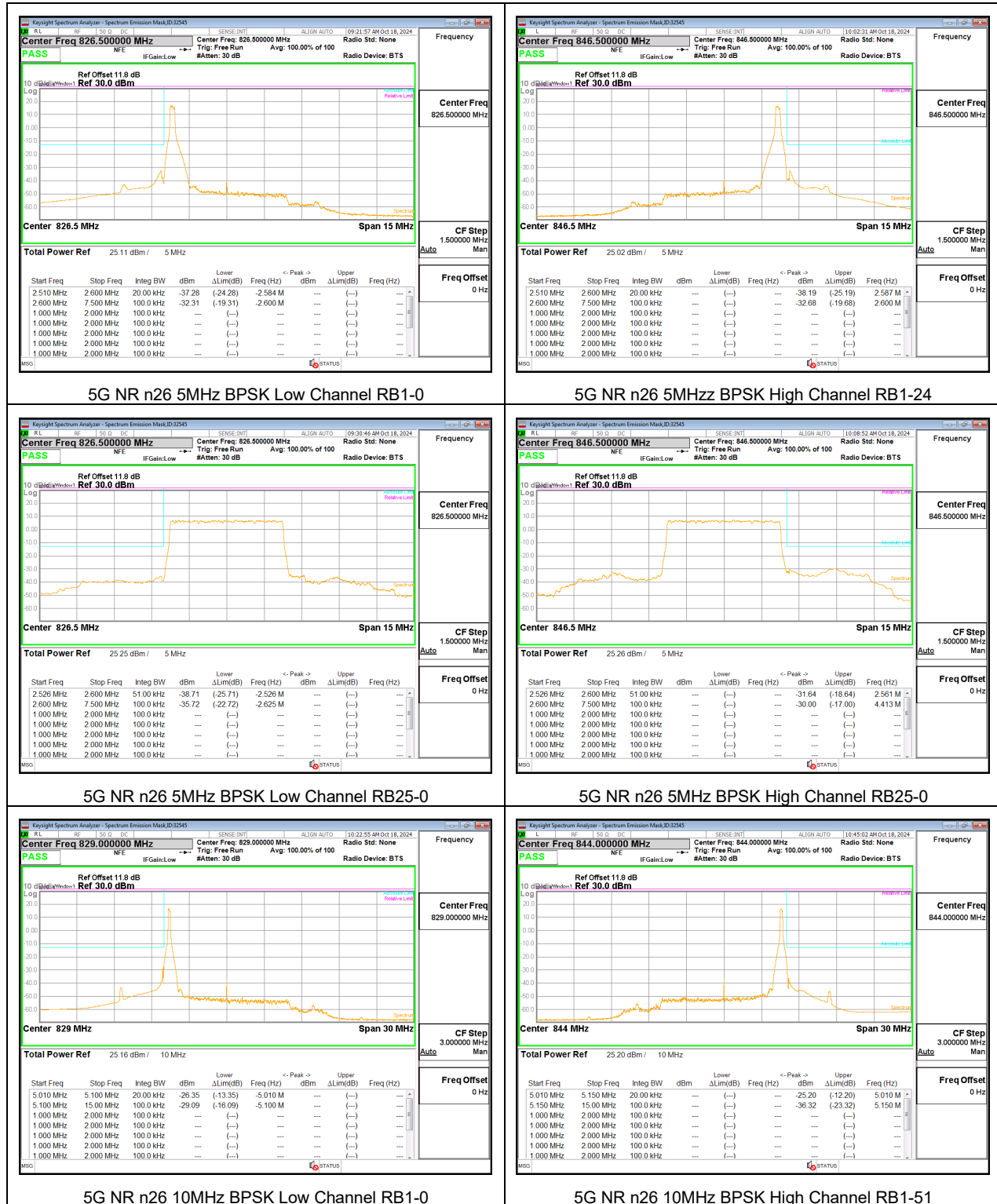
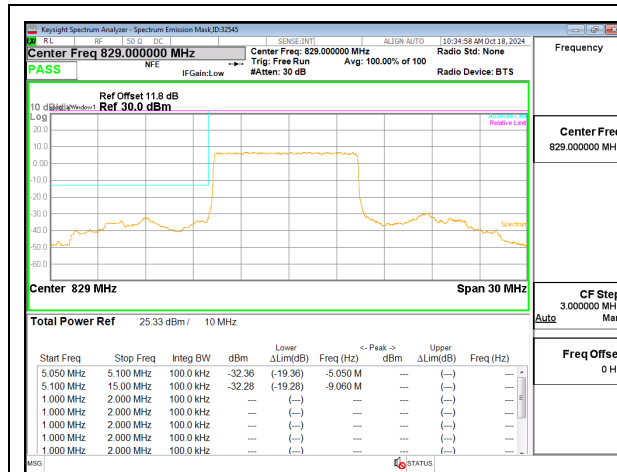
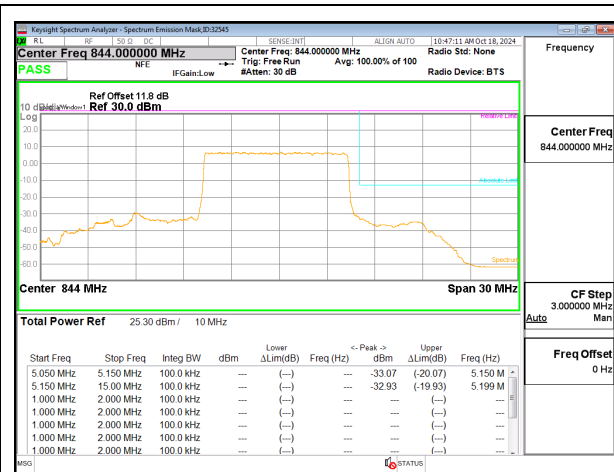


**5G NR n26 EMISSION MASK**

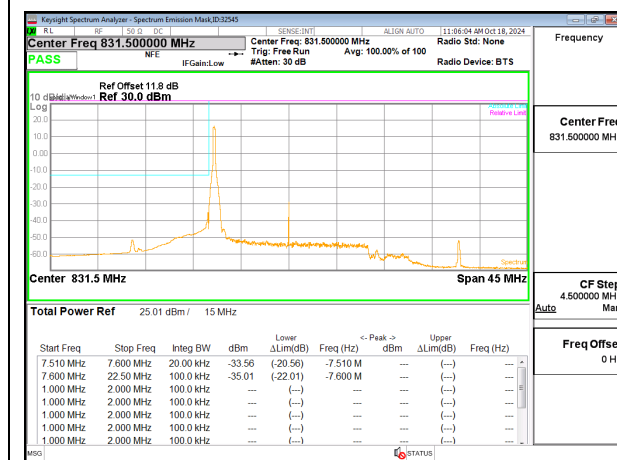




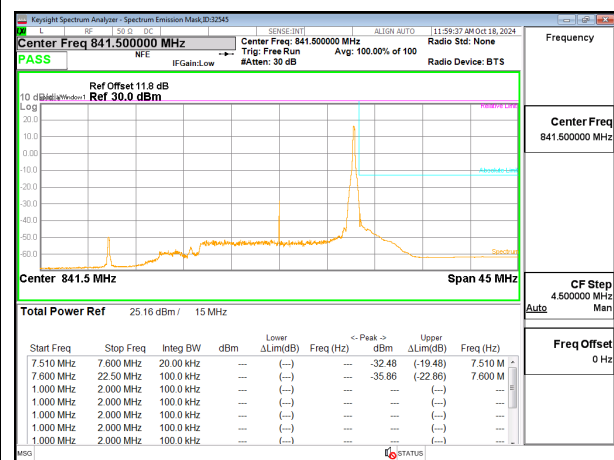
5G NR n26 10MHz BPSK Low Channel RB50-0



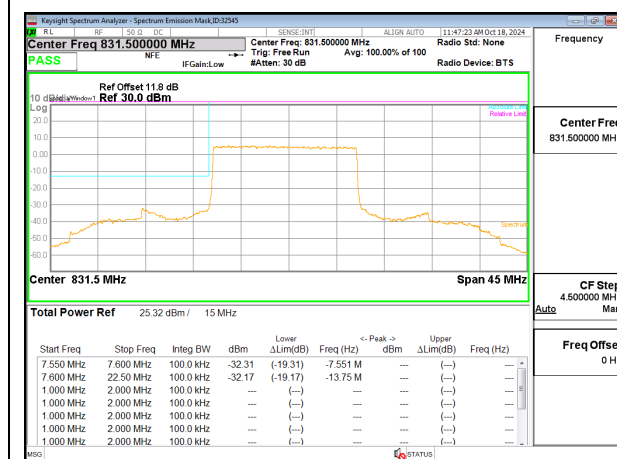
5G NR n26 10MHz BPSK High Channel RB50-0



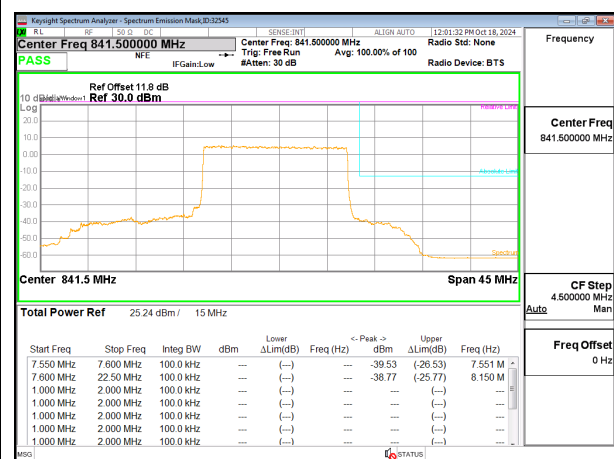
5G NR n26 15MHz BPSK Low Channel RB1-0



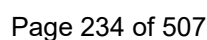
5G NR n26 15MHz BPSK High Channel RB1-78



5G NR n26 15MHz BPSK Low Channel RB75-0



5G NR n26 15MHz BPSK High Channel RB75-0



## 9.2.9. LTE BAND 30 AND 5G NR n30 EMISSION MASK

### LIMITS

FCC: §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power  $P$  (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

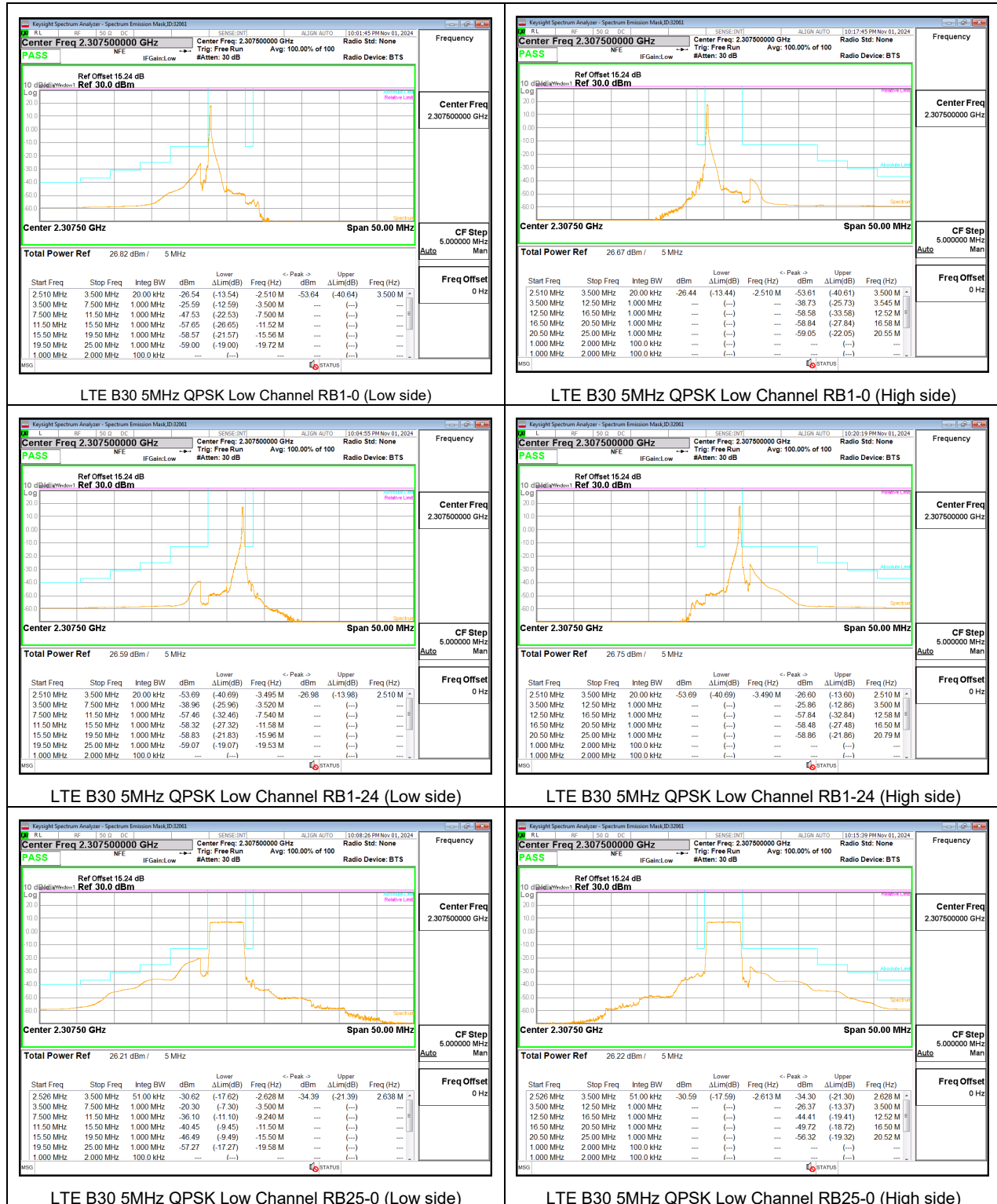
(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

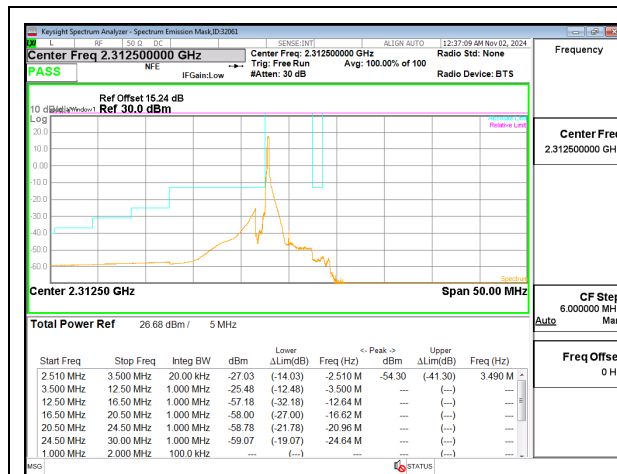
(i) By a factor of not less than:  $43 + 10 \log(P)$  dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log(P)$  dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than  $61 + 10 \log(P)$  dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than  $67 + 10 \log(P)$  dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2300 and 2305 MHz,  $55 + 10 \log(P)$  dB on all frequencies between 2296 and 2300 MHz,  $61 + 10 \log(P)$  dB on all frequencies between 2292 and 2296 MHz,  $67 + 10 \log(P)$  dB on all frequencies between 2288 and 2292 MHz, and  $70 + 10 \log(P)$  dB below 2288 MHz;

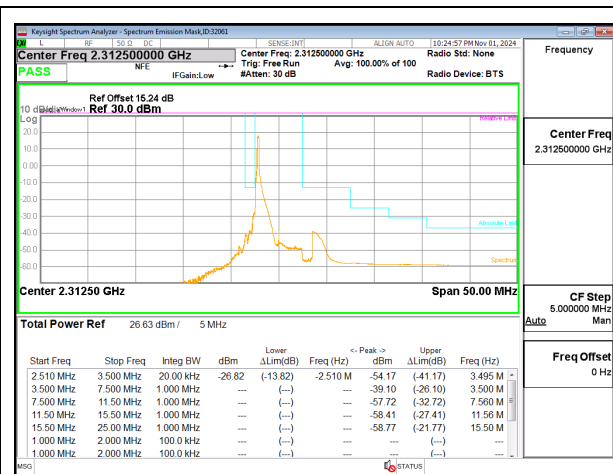
(iii) By a factor of not less than  $43 + 10 \log(P)$  dB on all frequencies between 2360 and 2365 MHz, and not less than  $70 + 10 \log(P)$  dB above 2365 MHz.

## LTE BAND 30 EMISSION MASK

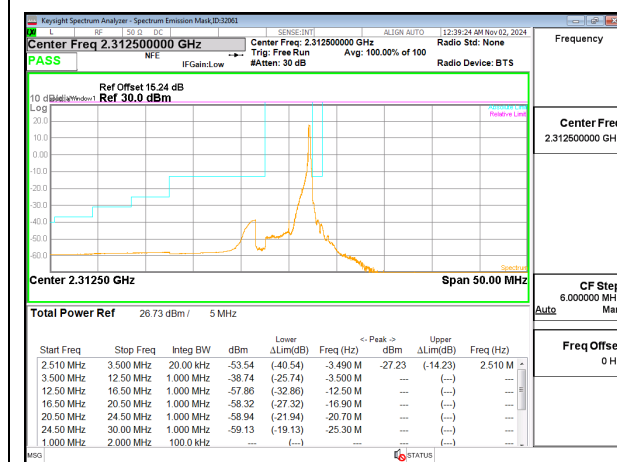




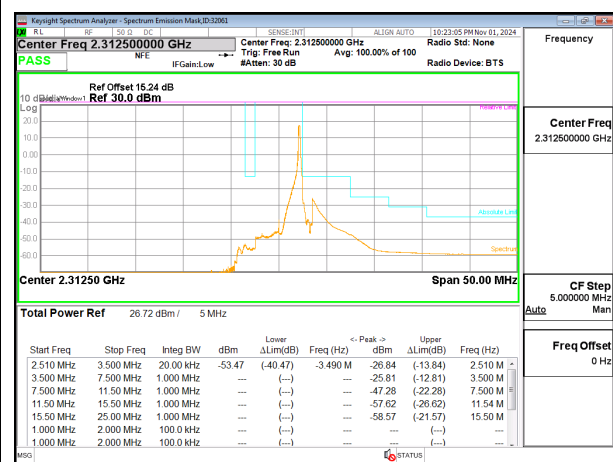
LTE B30 5MHz QPSK High Channel RB1-0 (Low side)



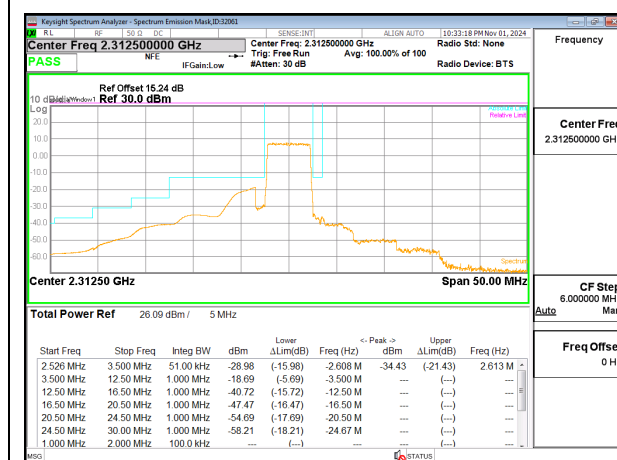
LTE B30 5MHz QPSK High Channel RB1-0 (High side)



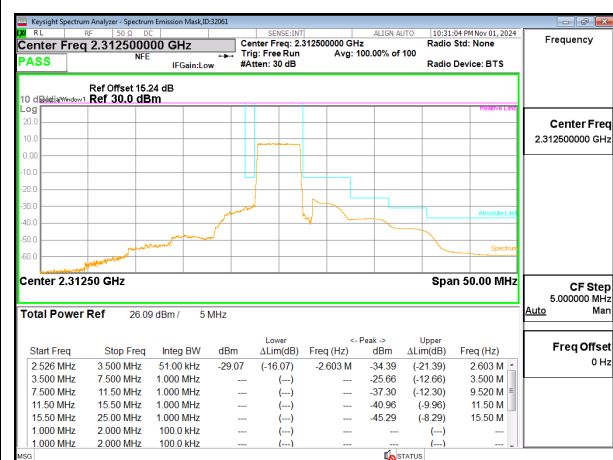
LTE B30 5MHz QPSK High Channel RB1-24 (Low side)



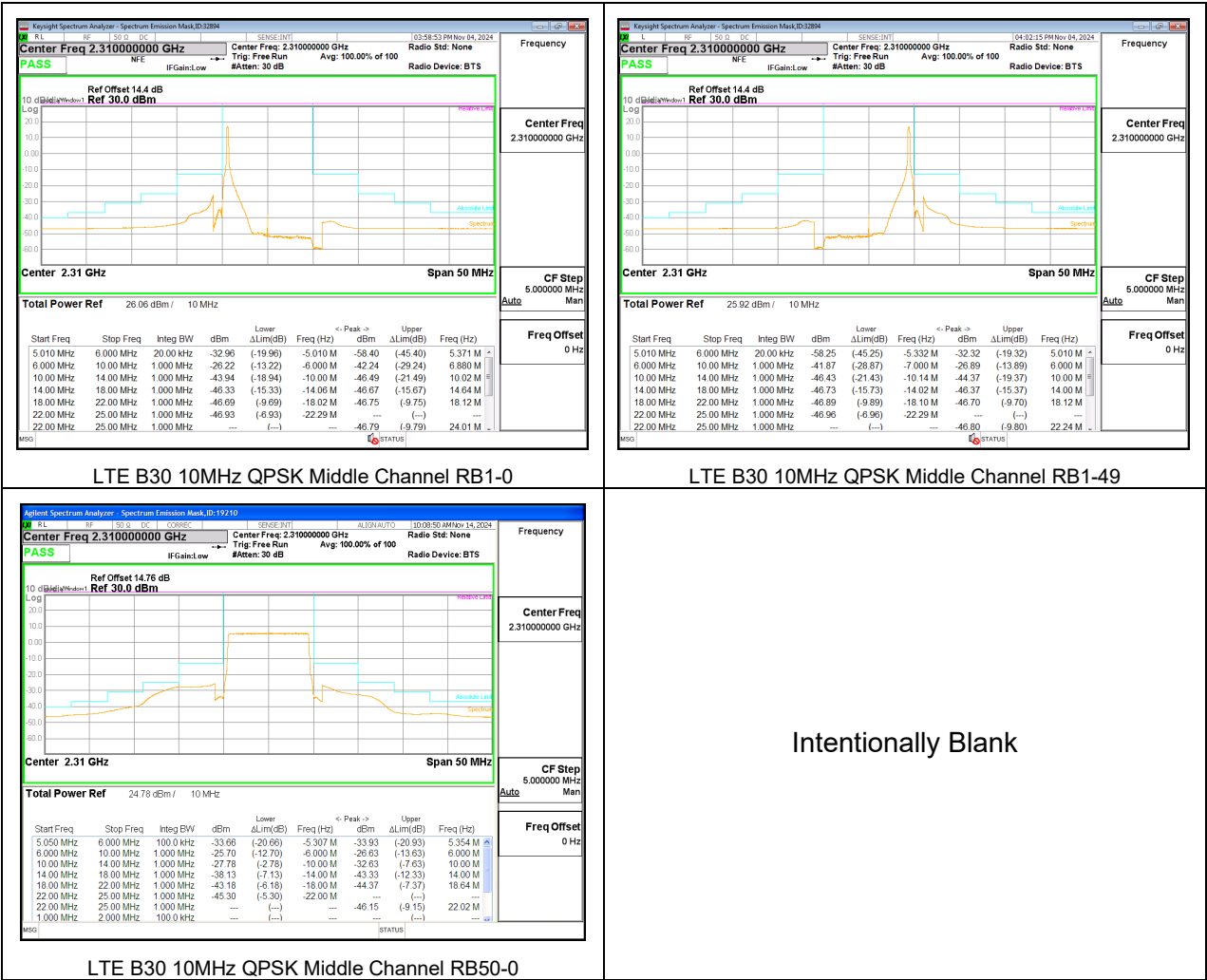
LTE B30 5MHz QPSK High Channel RB1-24 (High side)



LTE B30 5MHz QPSK High Channel RB25-0 (Low side)



LTE B30 5MHz QPSK High Channel RB25-0 (High side)



Agilent Spectrum Analyzer - Spectrum Emission Mask ID:19210

10-08:50 AM Nov 14, 2024

Center Freq 2.310000000 GHz

Center Freq: 2.310000000 GHz

Radio Std: None

IF Gain: Low

Trig: Free Run

Avg: 100.00% of 100

Radio Device: BTS

PASS

Ref Offset 14.76 dB

Ref 30.0 dBm

Center Freq 2.31 GHz

Span 50 MHz

Total Power Ref 24.78 dBm / 10 MHz

CF Step 5.000000 MHz

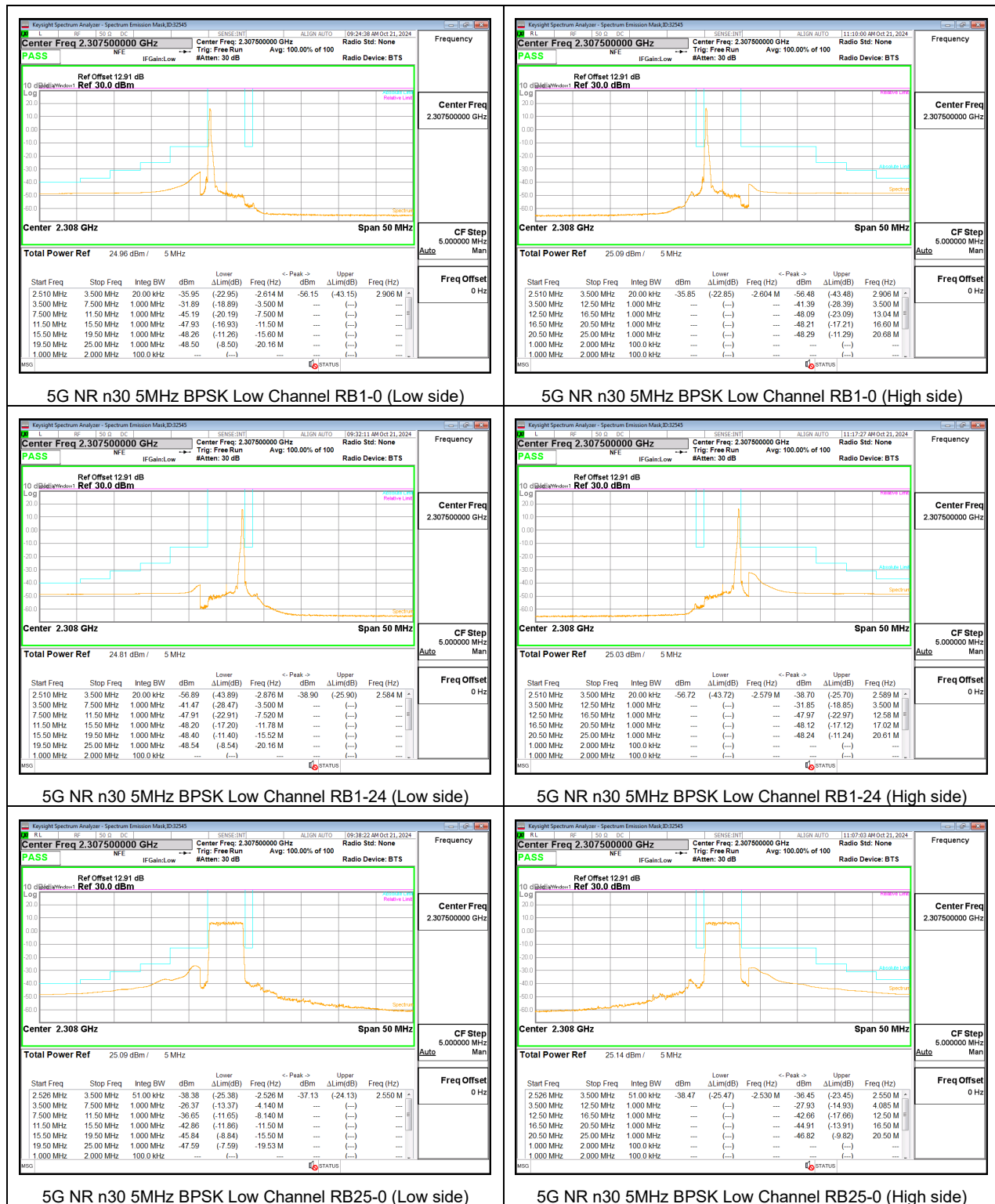
Freq Offset 0 Hz

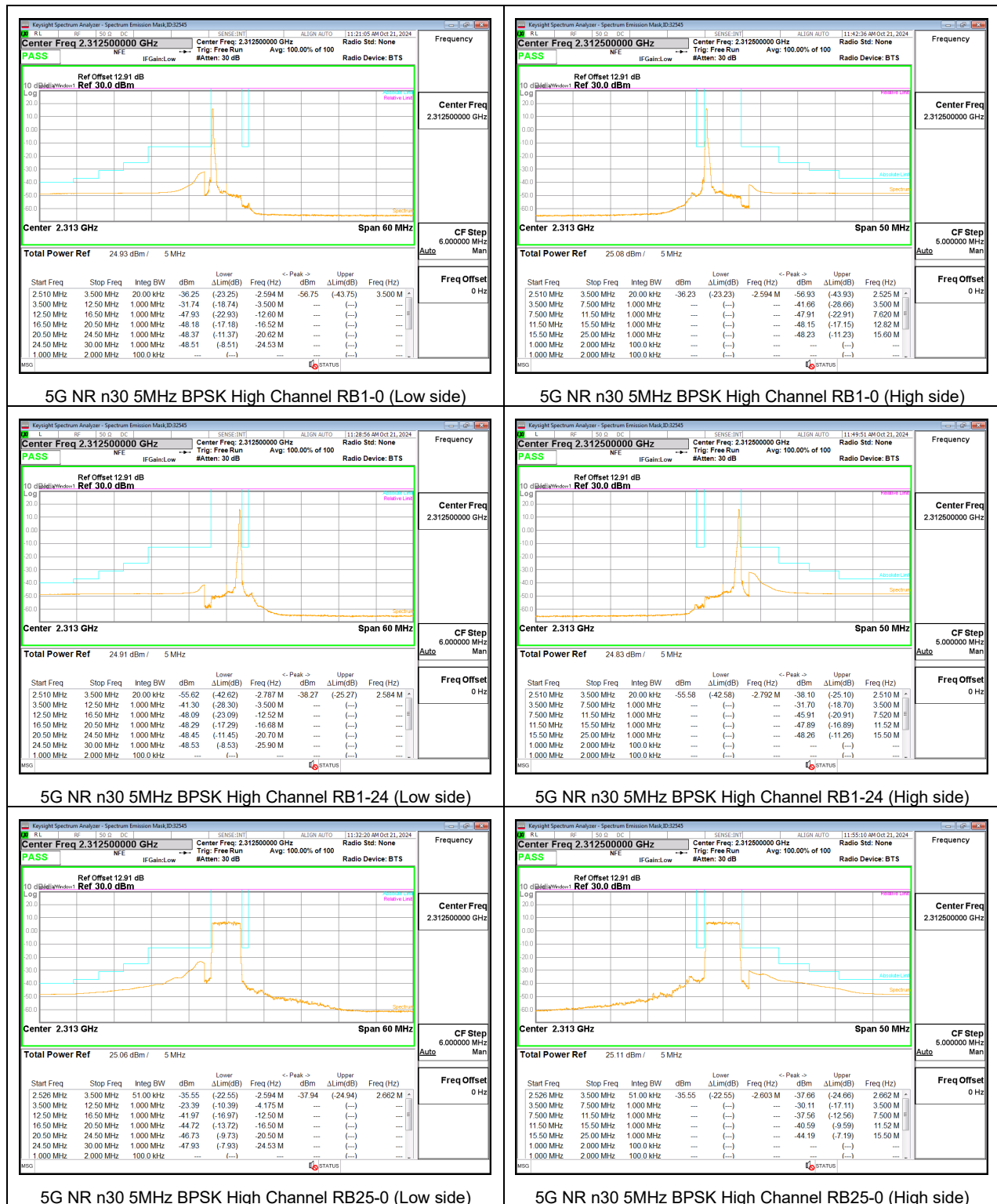
| Start Freq | Stop Freq | Integ BW  | dBm    | Lower ΔLim(dB) | Freq (Hz) | < Peak > dBm | Upper ΔLim(dB) | Freq (Hz) |
|------------|-----------|-----------|--------|----------------|-----------|--------------|----------------|-----------|
| 5.050 MHz  | 6.000 MHz | 100.0 kHz | -33.66 | (-20.66)       | -5.307 M  | -33.93       | (-20.93)       | 5.354 M   |
| 6.000 MHz  | 10.00 MHz | 1.000 MHz | -25.70 | (-12.70)       | -6.000 M  | -26.63       | (-13.63)       | 6.000 M   |
| 10.00 MHz  | 14.00 MHz | 1.000 MHz | -27.78 | (-2.78)        | -10.00 M  | -32.63       | (-7.63)        | 10.00 M   |
| 14.00 MHz  | 18.00 MHz | 1.000 MHz | -38.13 | (-7.13)        | -14.00 M  | -43.33       | (-12.33)       | 14.00 M   |
| 18.00 MHz  | 22.00 MHz | 1.000 MHz | -43.18 | (-6.18)        | -18.00 M  | -44.37       | (-7.37)        | 18.64 M   |
| 22.00 MHz  | 25.00 MHz | 1.000 MHz | -45.30 | (-5.30)        | -22.00 M  | ---          | (-)            | ---       |
| 22.00 MHz  | 25.00 MHz | 1.000 MHz | ---    | (-)            | ---       | -46.15       | (-9.15)        | 22.02 M   |
| 1.000 MHz  | 2.000 MHz | 100.0 kHz | ---    | (-)            | ---       | ---          | (-)            | ---       |

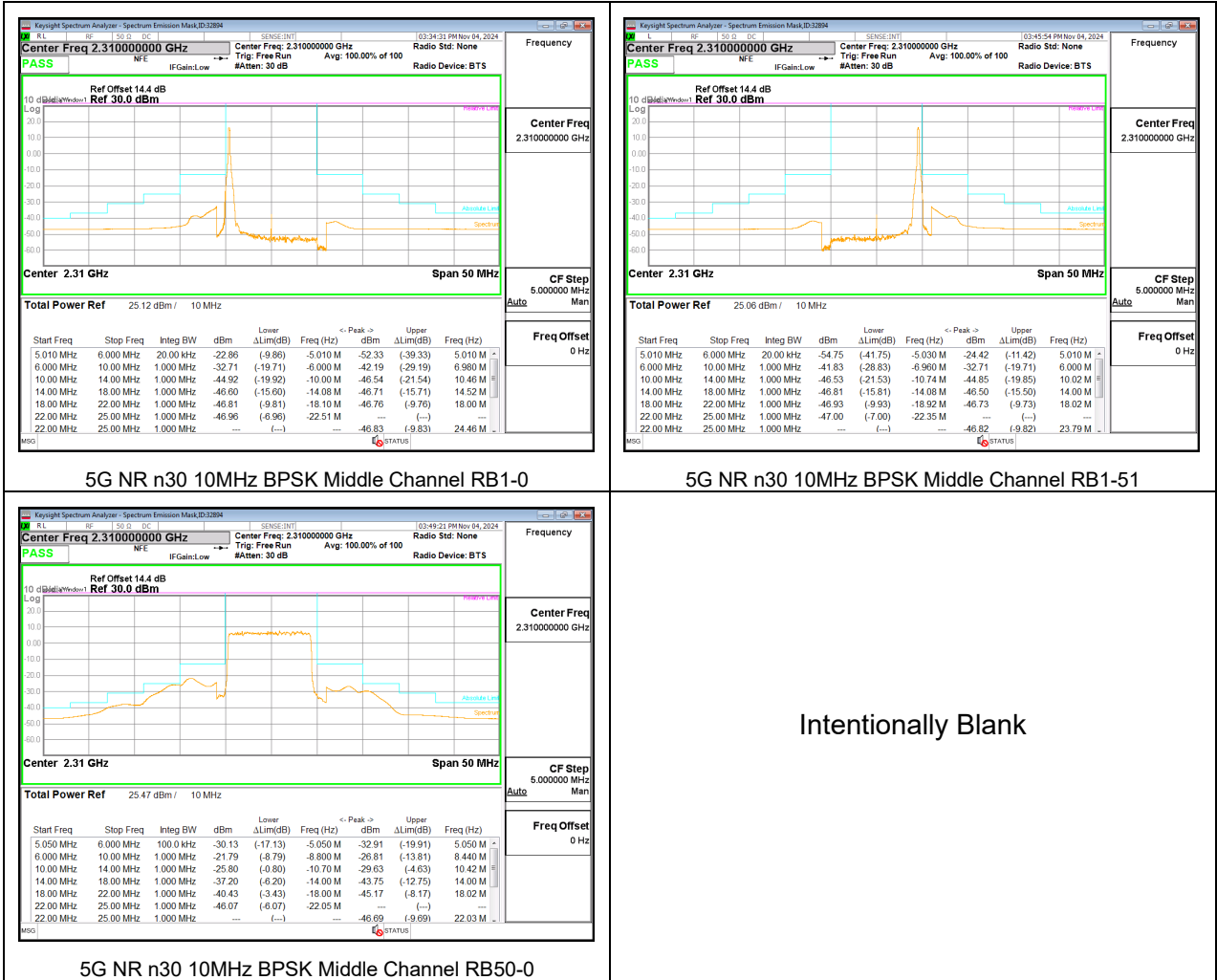
LTE B30 10MHz QPSK Middle Channel RB50-0

Intentionally Blank

**5G NR n30 EMISSION MASK**







Keysight Spectrum Analyzer - Spectrum Emission Mask ID:32894

SENSE: SWIFT

63:49:21 PM Nov 04, 2024

Center Freq 2.310000000 GHz

Center Freq: 2.310000000 GHz

Radio Std: None

IF Gain: Low

Trig: Free Run

Avg: 100.00% of 100

Radio Device: BTS

PASS

Ref Offset 14.4 dB

Ref 30.0 dBm

10 dB/div

Log

0.0

10.0

20.0

30.0

40.0

50.0

60.0

70.0

80.0

90.0

100.0

Center 2.31 GHz

Span 50 MHz

Total Power Ref

25.47 dBm / 10 MHz

Start Freq

Stop Freq

Integ BW

dBm

Lower ΔLim(dB)

Freq (Hz)

Peak

Upper ΔLim(dB)

Freq (Hz)

5.050 MHz

6.000 MHz

100.0 kHz

-30.13

(-17.13)

-5.050 M

-32.91

(-19.91)

5.050 M

6.000 MHz

10.00 MHz

1.000 MHz

-21.79

(-8.79)

-8.800 M

-26.81

(-13.81)

8.440 M

10.00 MHz

14.00 MHz

1.000 MHz

-25.80

(-8.80)

-10.70 M

-29.63

(-4.63)

10.42 M

14.00 MHz

18.00 MHz

1.000 MHz

-37.20

(-6.20)

-14.00 M

-43.75

(-12.75)

14.00 M

18.00 MHz

22.00 MHz

1.000 MHz

-40.43

(-3.43)

-18.00 M

-45.17

(-8.17)

18.02 M

22.00 MHz

25.00 MHz

1.000 MHz

-46.07

(-6.07)

-22.05 M

---

(-)

---

MSO

STATUS

5G NR n30 10MHz BPSK Middle Channel RB50-0

Intentionally Blank

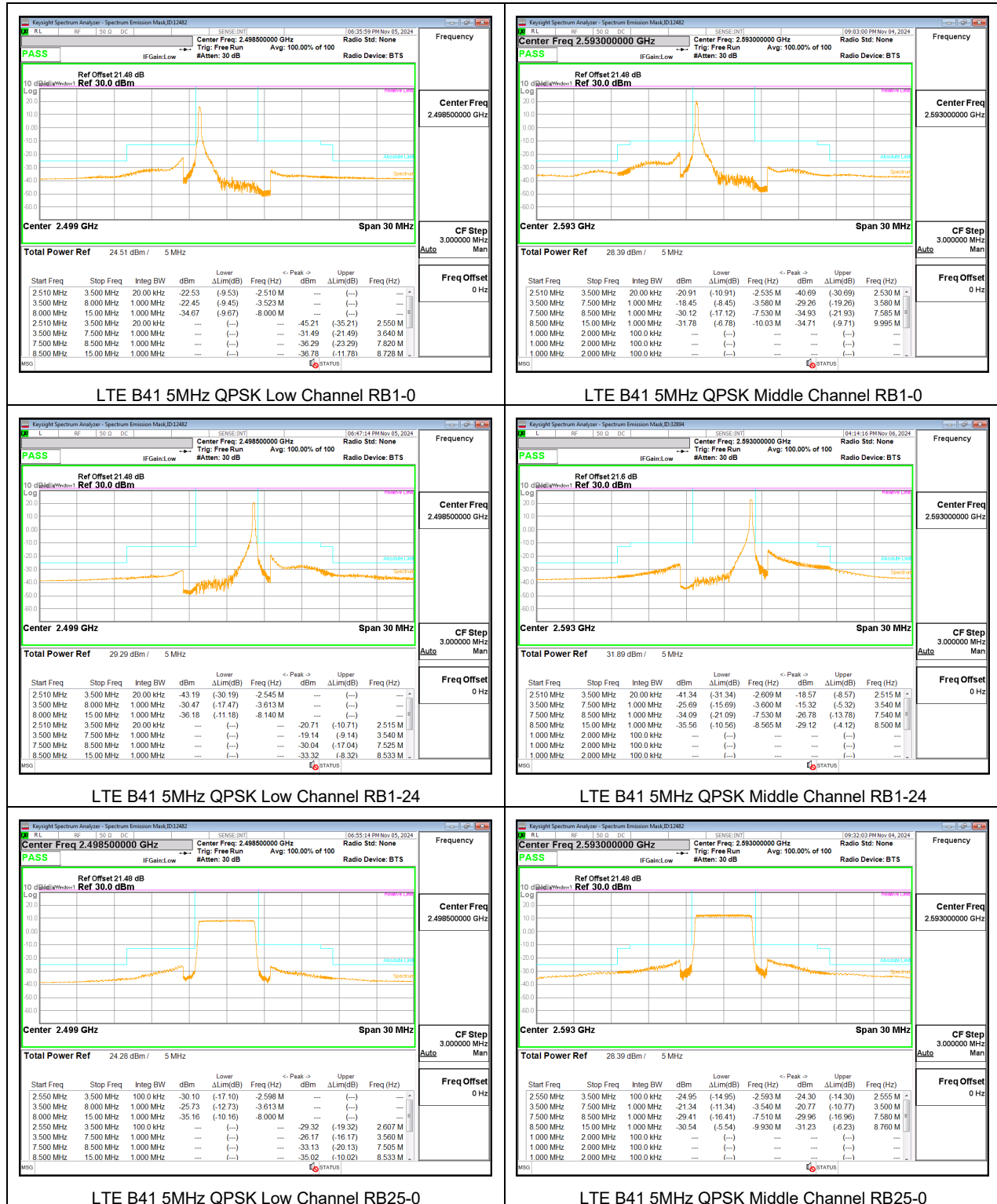
## 9.2.10. LTE BAND 41 AND 5G NR n41 EMISSION MASK

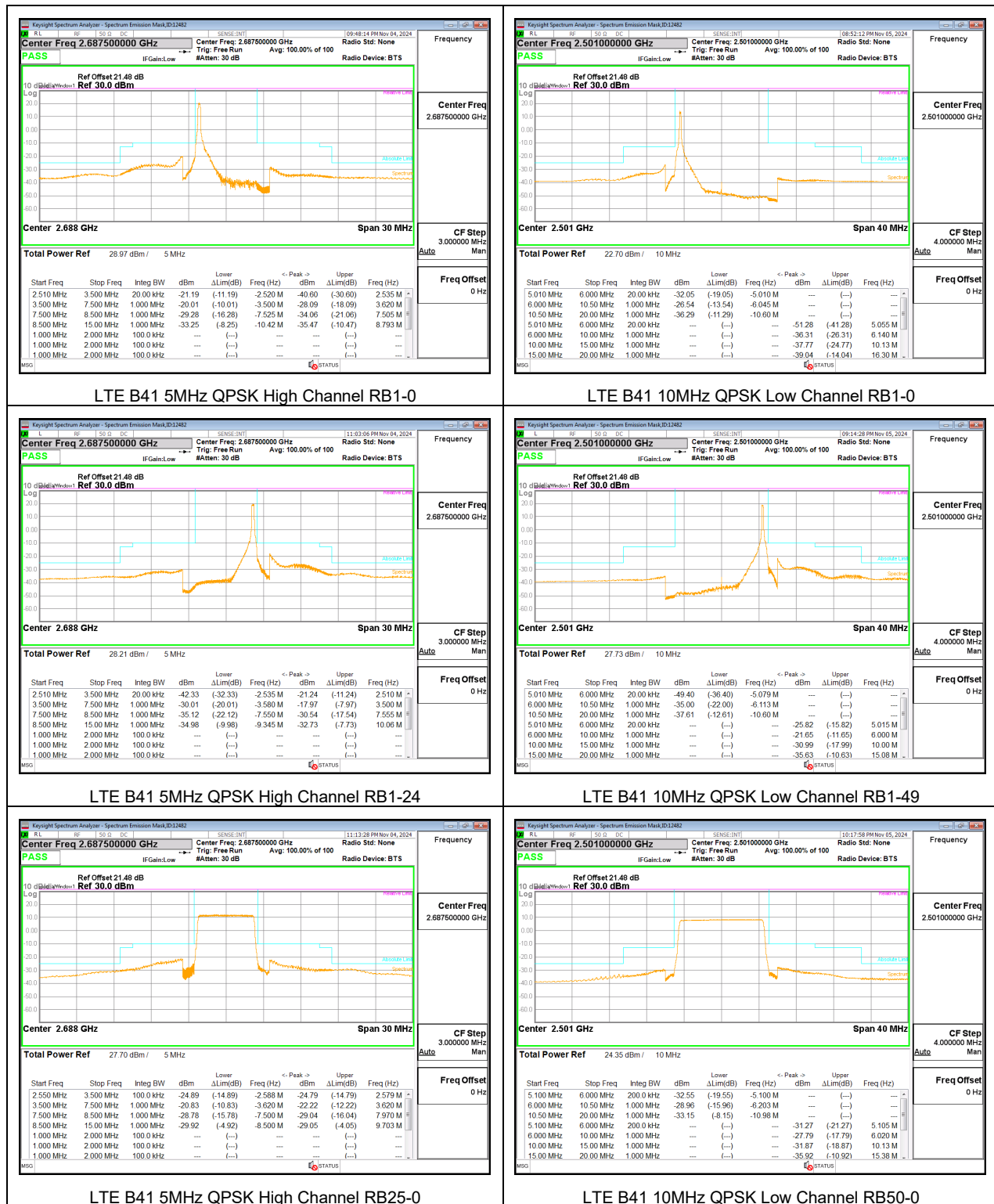
### LIMITS

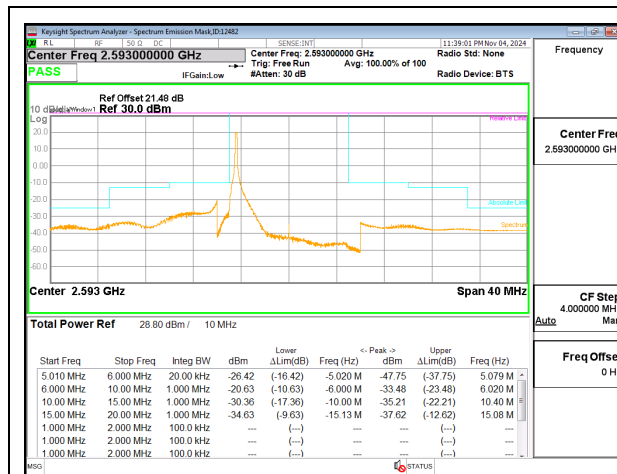
FCC: §27.53

(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

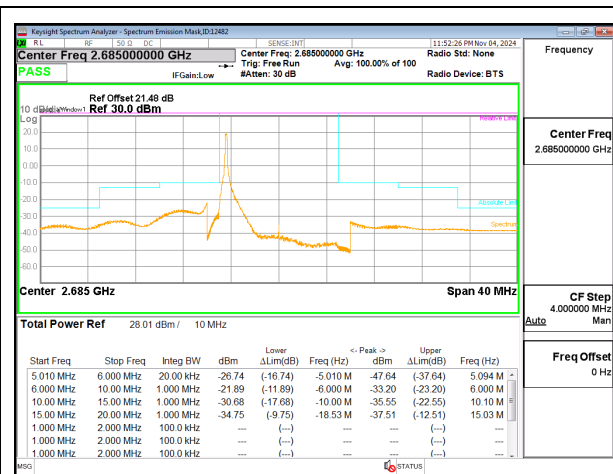
**LTE BAND 41 EMISSION MASK**



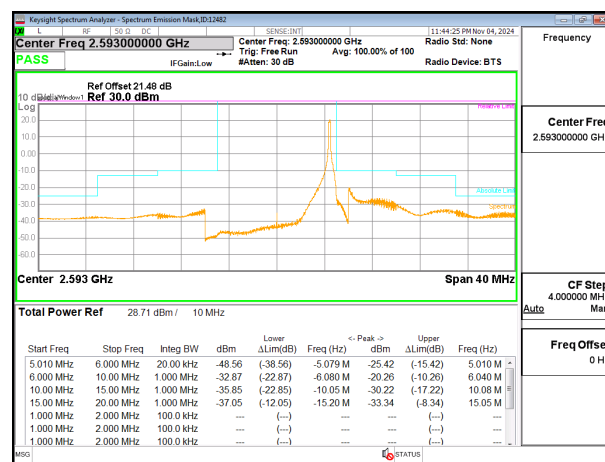




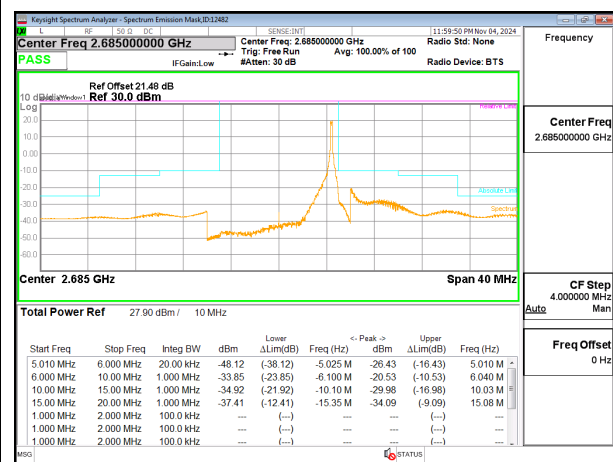
LTE B41 10MHz QPSK Middle Channel RB1-0



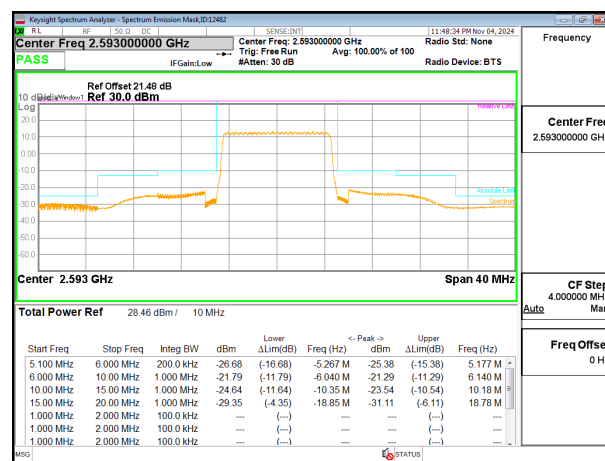
LTE B41 10MHz QPSK High Channel RB1-0



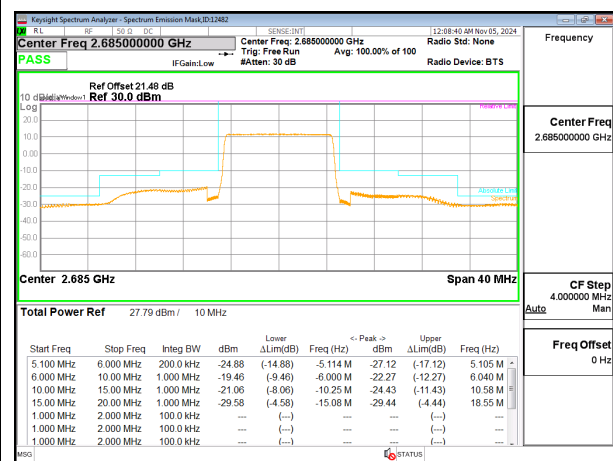
LTE B41 10MHz QPSK Middle Channel RB1-49



LTE B41 10MHz QPSK High Channel RB1-49

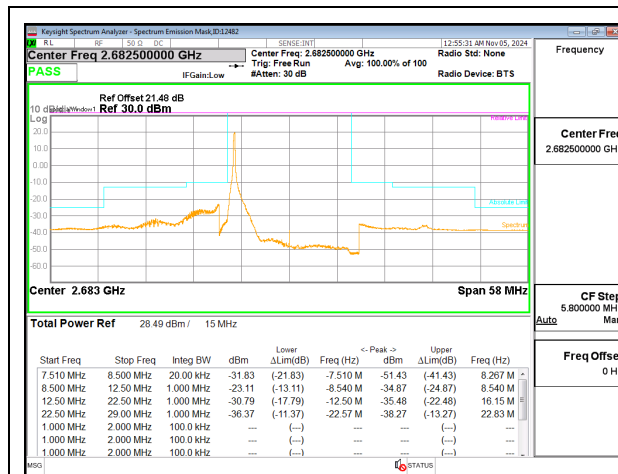


LTE B41 10MHz QPSK Middle Channel RB50-0

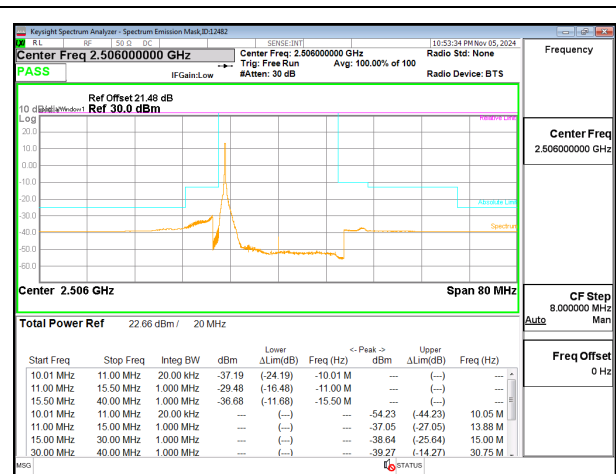


LTE B41 10MHz QPSK High Channel RB50-0

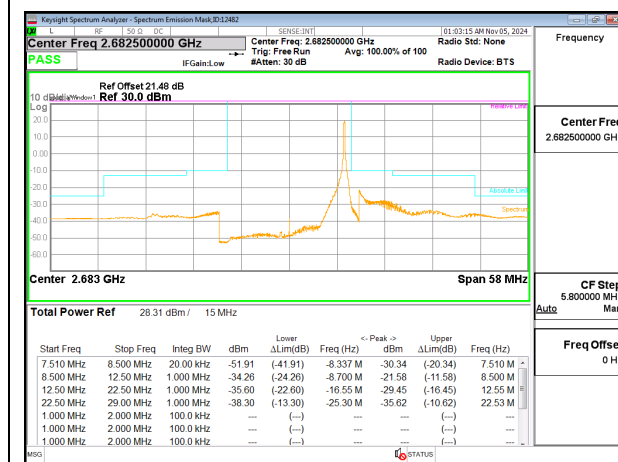




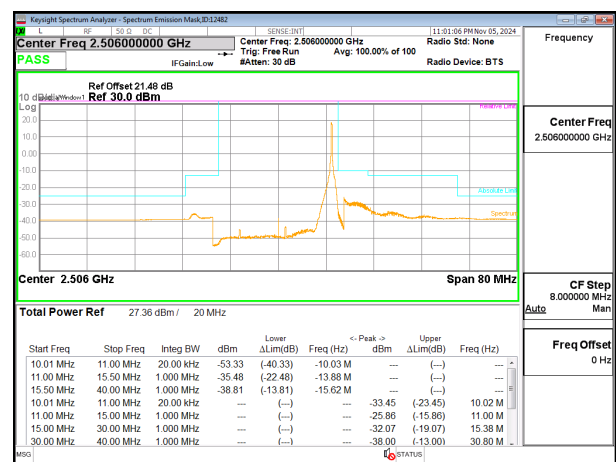
LTE B41 15MHz QPSK High Channel RB1-0



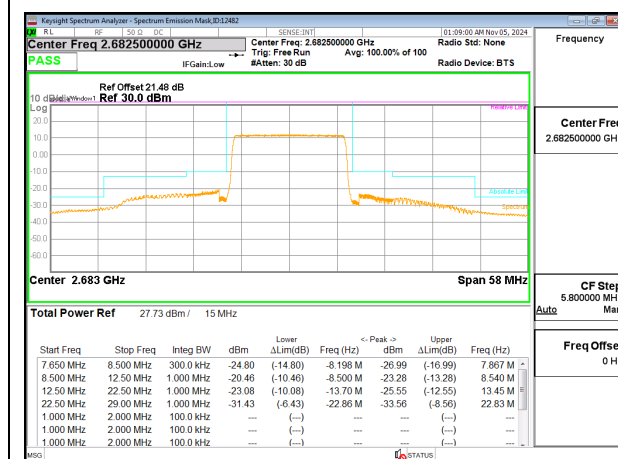
LTE B41 20MHz QPSK Low Channel RB1-0



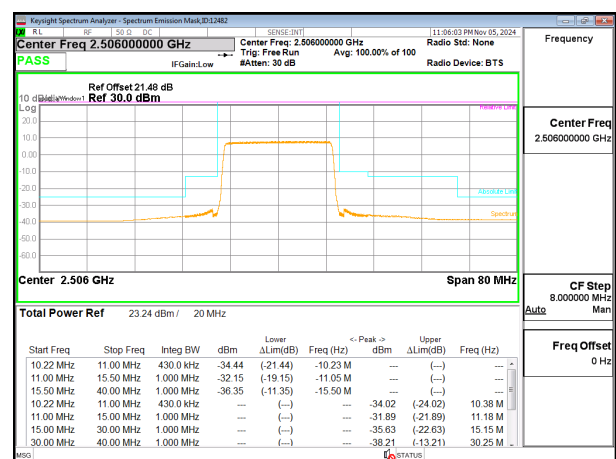
LTE B41 15MHz QPSK High Channel RB1-74



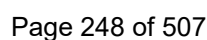
LTE B41 20MHz QPSK Low Channel RB1-99



LTE B41 15MHz QPSK High Channel RB75-0



LTE B41 20MHz QPSK Low Channel RB100-0



**5G NR n41 EMISSION MASK**



