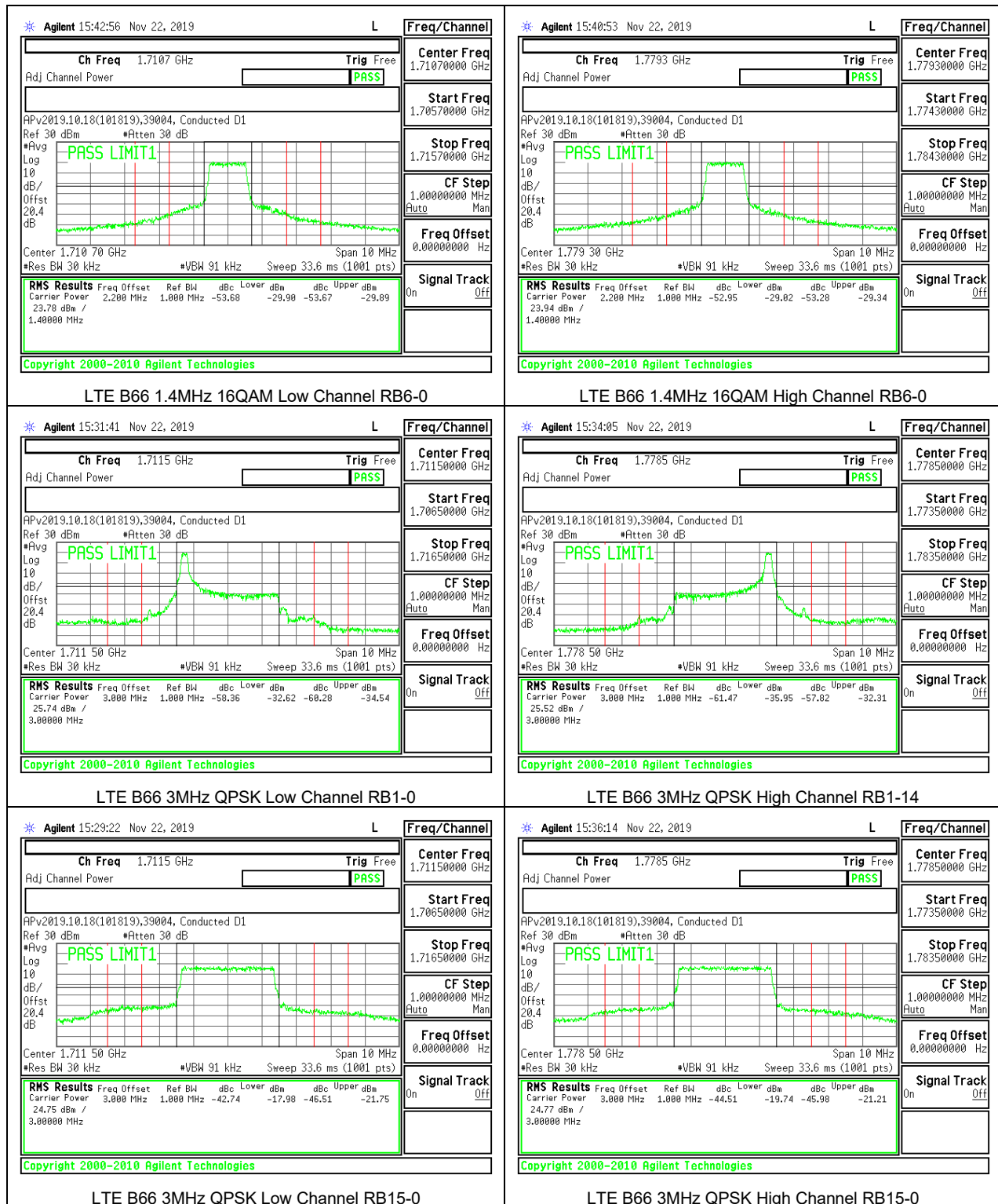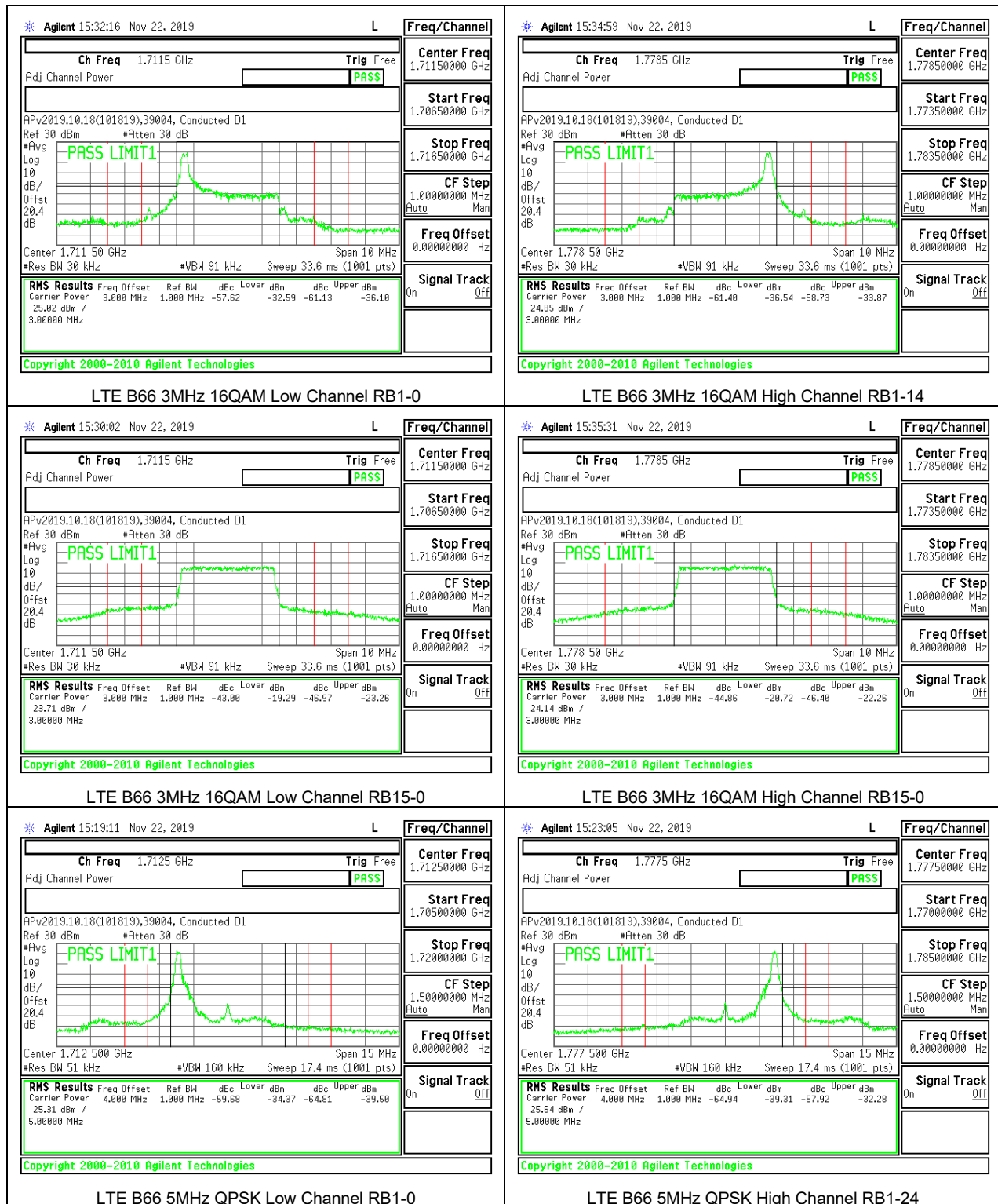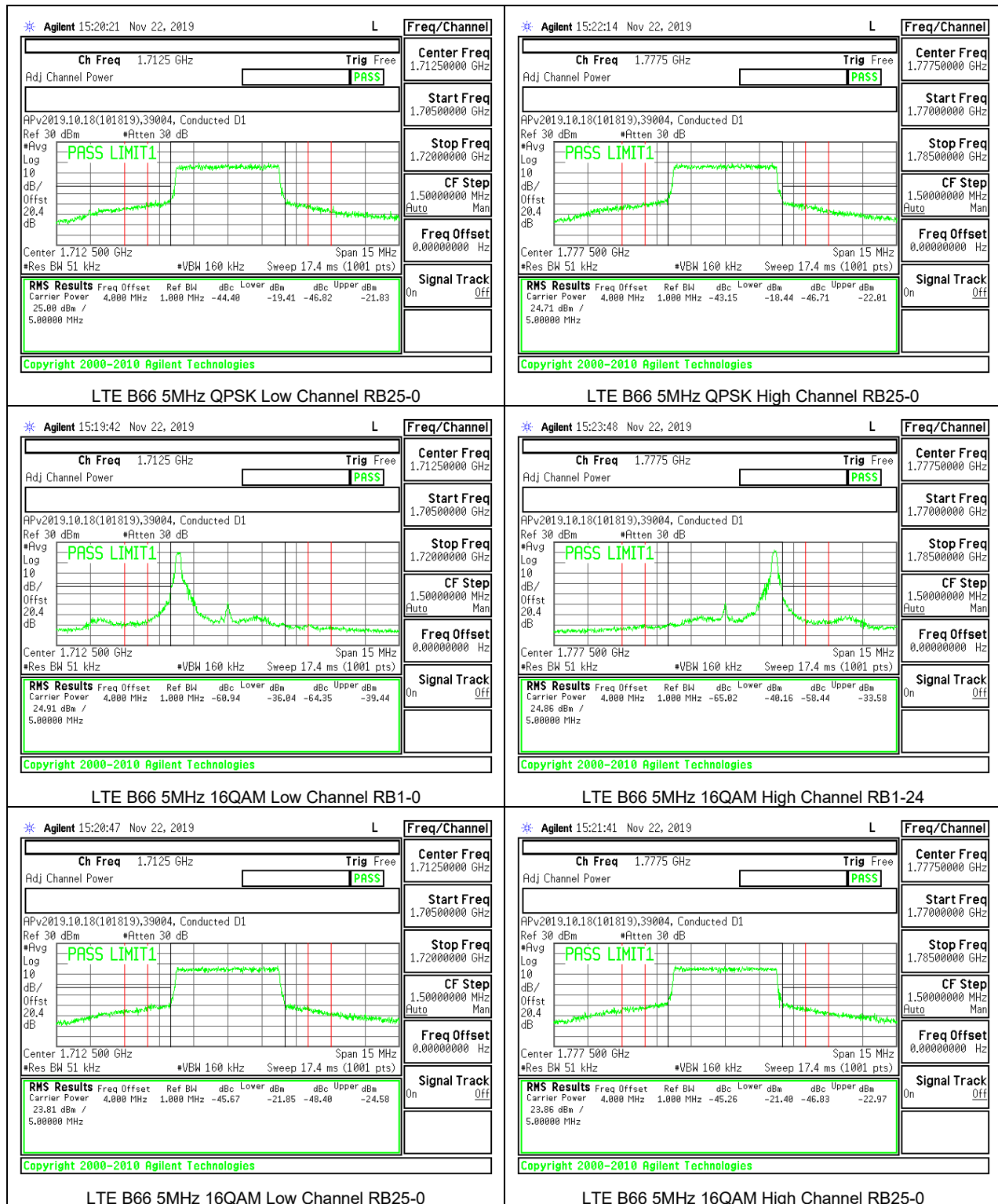## 8.2.12. LTE BAND 66 ADJACENT CHANNEL POWER

LTE B66 1.4MHz QPSK Low Channel RB1-0

LTE B66 1.4MHz QPSK High Channel RB1-5

LTE B66 1.4MHz QPSK Low Channel RB6-0

LTE B66 1.4MHz QPSK High Channel RB6-0

LTE B66 1.4MHz 16QAM Low Channel RB1-0

LTE B66 1.4MHz 16QAM High Channel RB1-5

LTE B66 1.4MHz 16QAM Low Channel RB6-0

LTE B66 1.4MHz 16QAM High Channel RB6-0

LTE B66 3MHz QPSK Low Channel RB1-0

LTE B66 3MHz QPSK High Channel RB1-14

LTE B66 3MHz QPSK Low Channel RB15-0

LTE B66 3MHz QPSK High Channel RB15-0

LTE B66 3MHz 16QAM Low Channel RB1-0

Agilent 15:32:16 Nov 22, 2019   L
Ch Freq 1.7115 GHz   Trig Free
Adj Channel Power   PASS
APv2019.10.18(101819),39004, Conducted D1
Ref 30 dBm   #Atten 30 dB
#Avg Log 10 dB/ Offst 20.4 dB
PASS LIMIT1
Center 1.711 50 GHz   Span 10 MHz
#Res BW 30 kHz   #VBW 91 kHz   Sweep 33.6 ms (1001 pts)

RMS Results	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	3.000 MHz	1.000 MHz	-57.62	-32.59	-61.13	-36.10
25.02 dBm / 3.00000 MHz						

Freq/Channel — Center Freq 1.71150000 GHz — Start Freq 1.70650000 GHz — Stop Freq 1.71650000 GHz — CF Step 1.00000000 MHz Auto Man — Freq Offset 0.00000000 Hz — Signal Track On Off

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LTE B66 3MHz 16QAM High Channel RB1-14

Agilent 15:34:59 Nov 22, 2019   L
Ch Freq 1.7785 GHz   Trig Free
Adj Channel Power   PASS
APv2019.10.18(101819),39004, Conducted D1
Ref 30 dBm   #Atten 30 dB
#Avg Log 10 dB/ Offst 20.4 dB
PASS LIMIT1
Center 1.778 50 GHz   Span 10 MHz
#Res BW 30 kHz   #VBW 91 kHz   Sweep 33.6 ms (1001 pts)

RMS Results	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	3.000 MHz	1.000 MHz	-61.40	-36.54	-58.73	-33.87
24.85 dBm / 3.00000 MHz						

Freq/Channel — Center Freq 1.77850000 GHz — Start Freq 1.77350000 GHz — Stop Freq 1.78350000 GHz — CF Step 1.00000000 MHz Auto Man — Freq Offset 0.00000000 Hz — Signal Track On Off

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LTE B66 3MHz 16QAM Low Channel RB15-0

Agilent 15:30:02 Nov 22, 2019   L
Ch Freq 1.7115 GHz   Trig Free
Adj Channel Power   PASS
APv2019.10.18(101819),39004, Conducted D1
Ref 30 dBm   #Atten 30 dB
#Avg Log 10 dB/ Offst 20.4 dB
PASS LIMIT1
Center 1.711 50 GHz   Span 10 MHz
#Res BW 30 kHz   #VBW 91 kHz   Sweep 33.6 ms (1001 pts)

RMS Results	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	3.000 MHz	1.000 MHz	-43.00	-19.29	-46.97	-23.26
23.71 dBm / 3.00000 MHz						

Freq/Channel — Center Freq 1.71150000 GHz — Start Freq 1.70650000 GHz — Stop Freq 1.71650000 GHz — CF Step 1.00000000 MHz Auto Man — Freq Offset 0.00000000 Hz — Signal Track On Off

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LTE B66 3MHz 16QAM High Channel RB15-0

Agilent 15:35:31 Nov 22, 2019   L
Ch Freq 1.7785 GHz   Trig Free
Adj Channel Power   PASS
APv2019.10.18(101819),39004, Conducted D1
Ref 30 dBm   #Atten 30 dB
#Avg Log 10 dB/ Offst 20.4 dB
PASS LIMIT1
Center 1.778 50 GHz   Span 10 MHz
#Res BW 30 kHz   #VBW 91 kHz   Sweep 33.6 ms (1001 pts)

RMS Results	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	3.000 MHz	1.000 MHz	-44.86	-20.72	-46.40	-22.26
24.14 dBm / 3.00000 MHz						

Freq/Channel — Center Freq 1.77850000 GHz — Start Freq 1.77350000 GHz — Stop Freq 1.78350000 GHz — CF Step 1.00000000 MHz Auto Man — Freq Offset 0.00000000 Hz — Signal Track On Off

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LTE B66 5MHz QPSK Low Channel RB1-0

Agilent 15:19:11 Nov 22, 2019   L
Ch Freq 1.7125 GHz   Trig Free
Adj Channel Power   PASS
APv2019.10.18(101819),39004, Conducted D1
Ref 30 dBm   #Atten 30 dB
#Avg Log 10 dB/ Offst 20.4 dB
PASS LIMIT1
Center 1.712 500 GHz   Span 15 MHz
#Res BW 51 kHz   #VBW 160 kHz   Sweep 17.4 ms (1001 pts)

RMS Results	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	4.000 MHz	1.000 MHz	-59.68	-34.37	-64.81	-39.50
25.31 dBm / 5.00000 MHz						

Freq/Channel — Center Freq 1.71250000 GHz — Start Freq 1.70500000 GHz — Stop Freq 1.72000000 GHz — CF Step 1.50000000 MHz Auto Man — Freq Offset 0.00000000 Hz — Signal Track On Off

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LTE B66 5MHz QPSK High Channel RB1-24

Agilent 15:23:05 Nov 22, 2019   L
Ch Freq 1.7775 GHz   Trig Free
Adj Channel Power   PASS
APv2019.10.18(101819),39004, Conducted D1
Ref 30 dBm   #Atten 30 dB
#Avg Log 10 dB/ Offst 20.4 dB
PASS LIMIT1
Center 1.777 500 GHz   Span 15 MHz
#Res BW 51 kHz   #VBW 160 kHz   Sweep 17.4 ms (1001 pts)

RMS Results	Freq Offset	Ref BW	dBc	Lower dBm	dBc	Upper dBm
Carrier Power	4.000 MHz	1.000 MHz	-64.94	-39.31	-57.92	-32.28
25.64 dBm / 5.00000 MHz						

Freq/Channel — Center Freq 1.77750000 GHz — Start Freq 1.77000000 GHz — Stop Freq 1.78500000 GHz — CF Step 1.50000000 MHz Auto Man — Freq Offset 0.00000000 Hz — Signal Track On Off

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LTE B66 5MHz QPSK Low Channel RB25-0

LTE B66 5MHz QPSK High Channel RB25-0

LTE B66 5MHz 16QAM Low Channel RB1-0

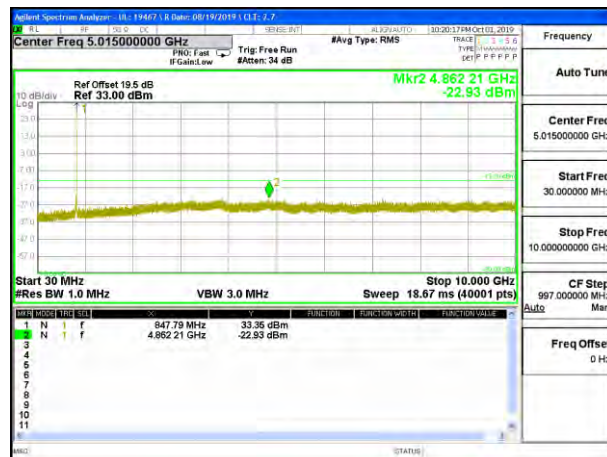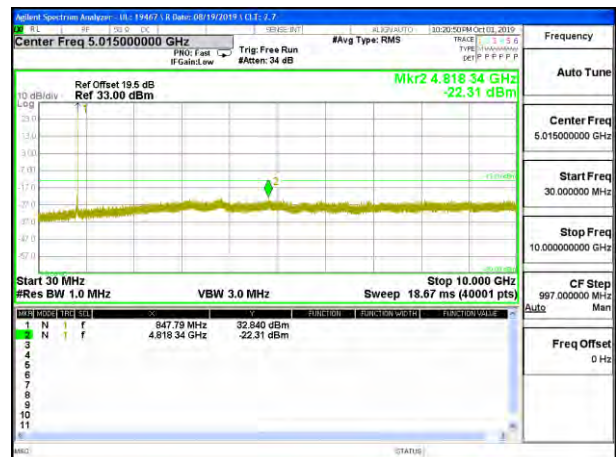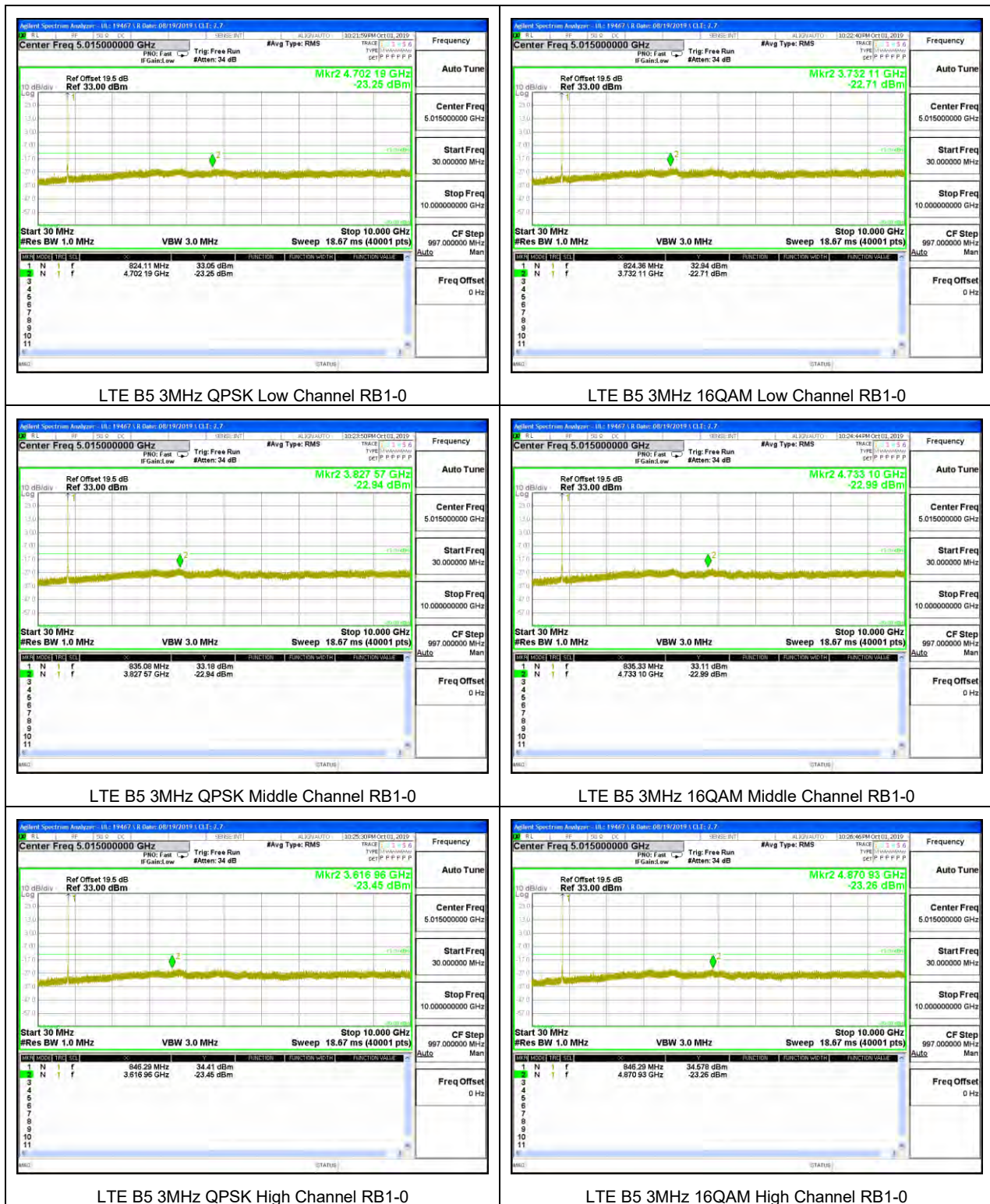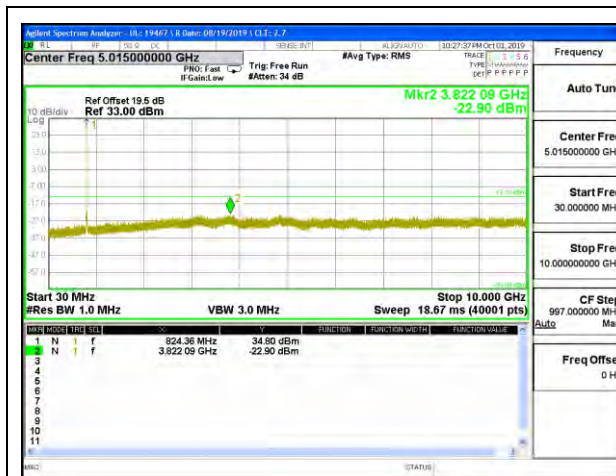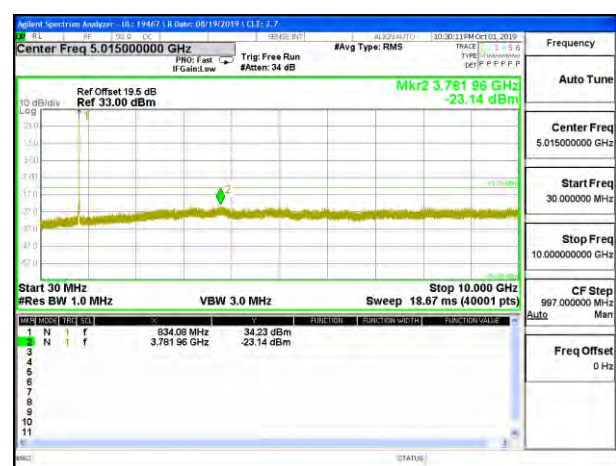LTE B66 5MHz 16QAM High Channel RB1-24
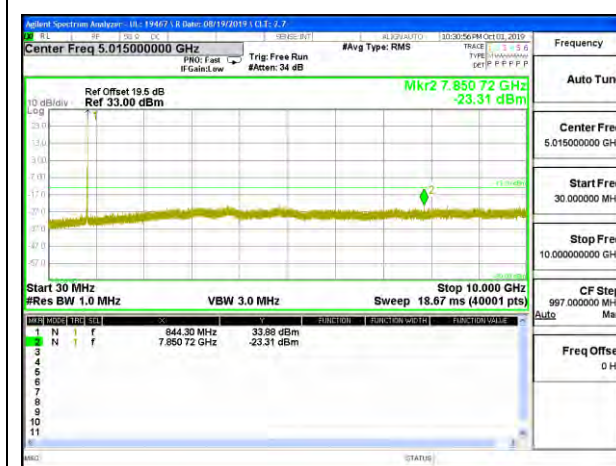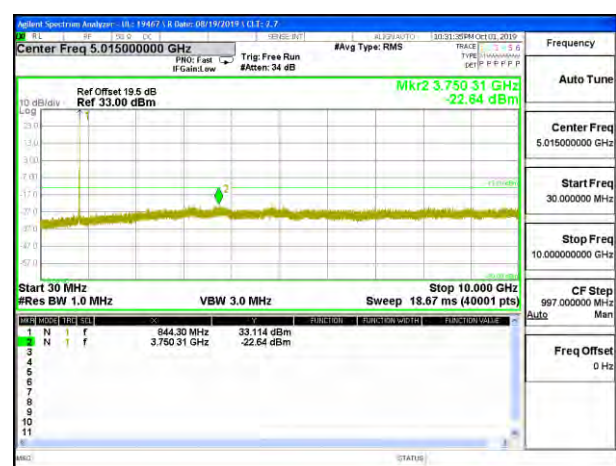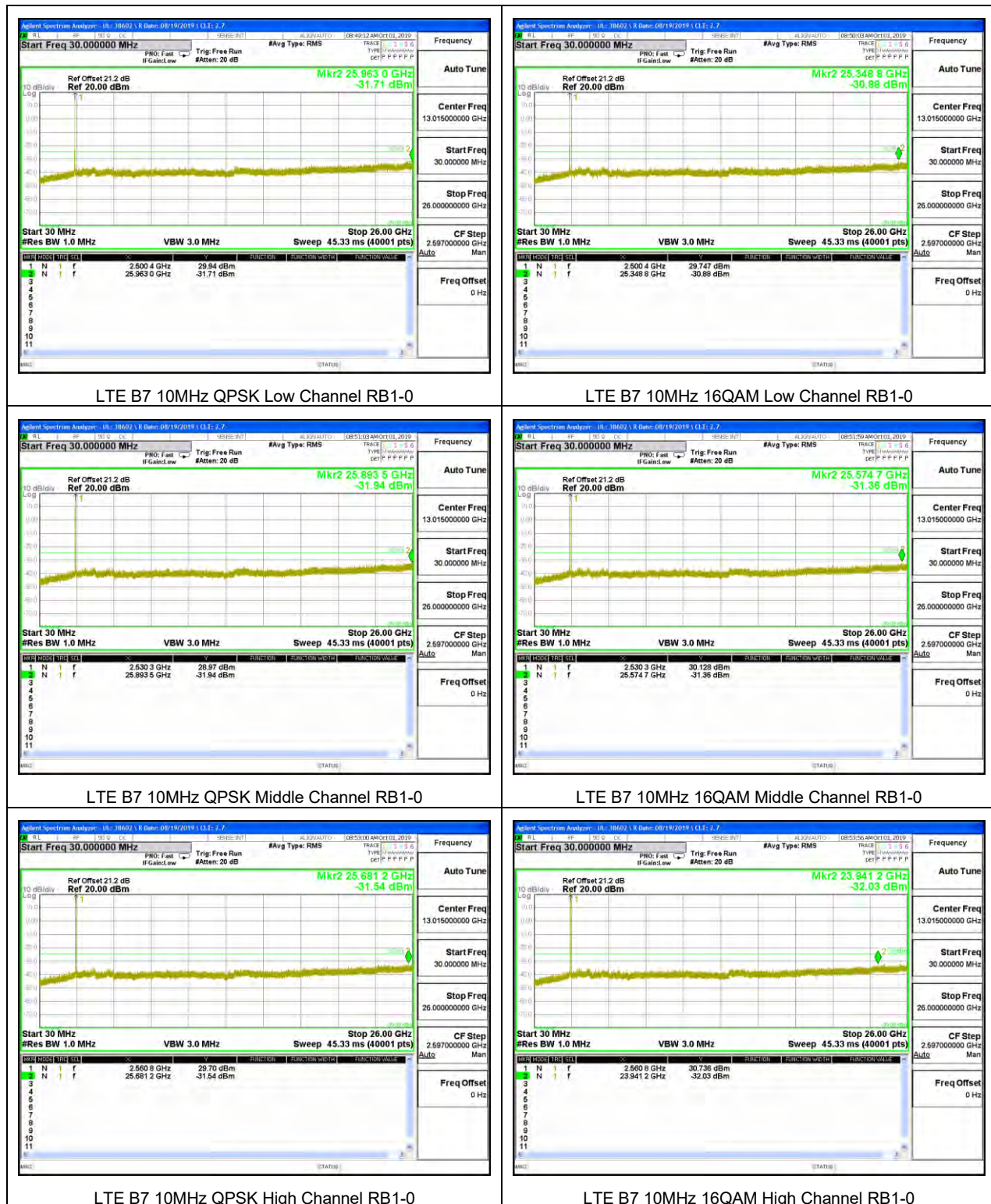
LTE B66 5MHz 16QAM Low Channel RB25-0

LTE B66 5MHz 16QAM High Channel RB25-0

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LTE B66 10MHz QPSK Low Channel RB1-0

LTE B66 10MHz QPSK High Channel RB1-49

LTE B66 10MHz QPSK Low Channel RB50-0

LTE B66 10MHz QPSK High Channel RB50-0

LTE B66 10MHz 16QAM Low Channel RB1-0

LTE B66 10MHz 16QAM High Channel RB1-49

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LTE B66 10MHz 16QAM Low Channel RB50-0

LTE B66 10MHz 16QAM High Channel RB50-0

LTE B66 15MHz QPSK Low Channel RB1-0

LTE B66 15MHz QPSK High Channel RB1-74

LTE B66 15MHz QPSK Low Channel RB75-0

LTE B66 15MHz QPSK High Channel RB75-0

LTE B66 15MHz 16QAM Low Channel RB1-0

LTE B66 15MHz 16QAM High Channel RB1-74

LTE B66 15MHz 16QAM Low Channel RB75-0

LTE B66 15MHz 16QAM High Channel RB75-0

LTE B66 20MHz QPSK Low Channel RB1-0

LTE B66 20MHz QPSK High Channel RB1-99

LTE B66 20MHz QPSK Low Channel RB100-0

LTE B66 20MHz QPSK High Channel RB100-0

LTE B66 20MHz 16QAM Low Channel RB1-0

LTE B66 20MHz 16QAM High Channel RB1-99

LTE B66 20MHz 16QAM Low Channel RB100-0

LTE B66 20MHz 16QAM High Channel RB100-0

8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, §90.669, §90.691, and §96.41

LIMITS

FCC: §22.917, §24.238, §27.53 (g), (h), §90.669, and §90.691
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) (Band 13)
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 with narrowband limits for GPS1559-1610 MHz band.

FCC: §27.53 (a) (Band 30)
The minimum permissible attenuation level of any spurious emissions is 70 + 10 log (P) dB where transmitting power (P) in Watts.

FCC: §27.53 (m) (Band 7, 41)
The minimum permissible attenuation level of any spurious emissions is 55 + 10 log (P) dB where transmitting power (P) in Watts.

FCC: §96.41
(e) 3.5 GHz Emissions and Interference Limits—
(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

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:
- Set display line at -13 dBm, -25dBm and -40dBm according to the band Limit
- 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)

MODES TESTED
- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66

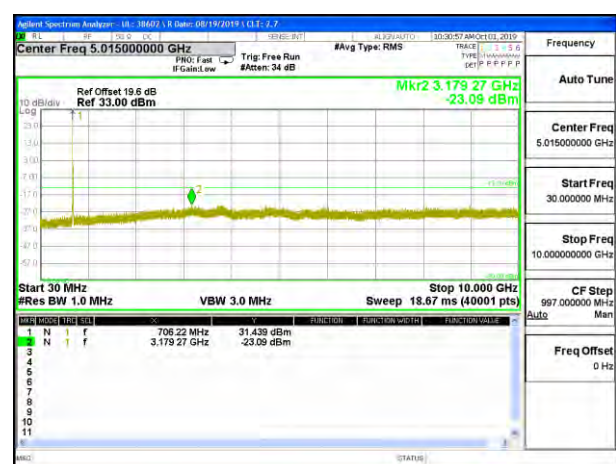### 8.3.1. LTE BAND 2
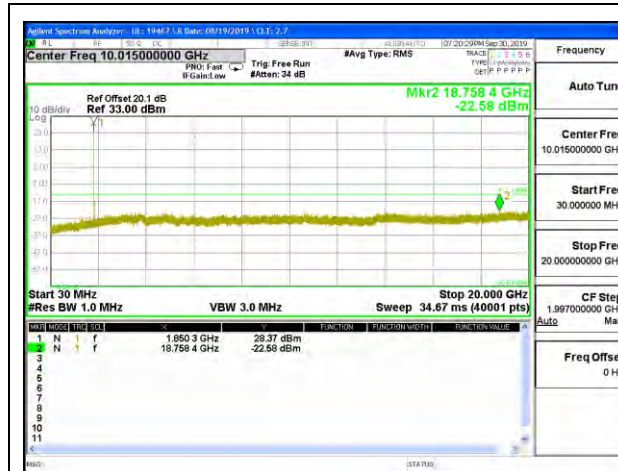
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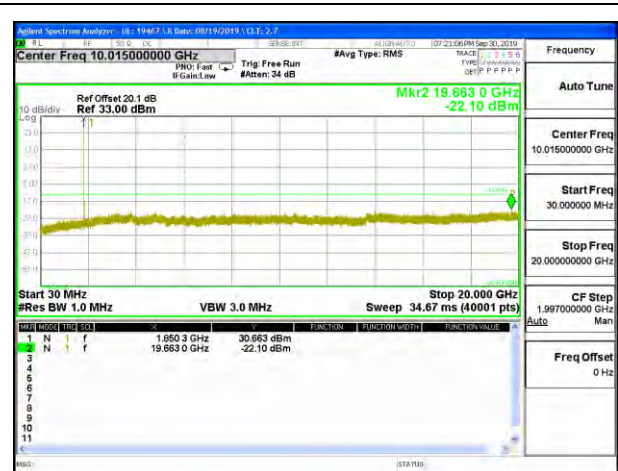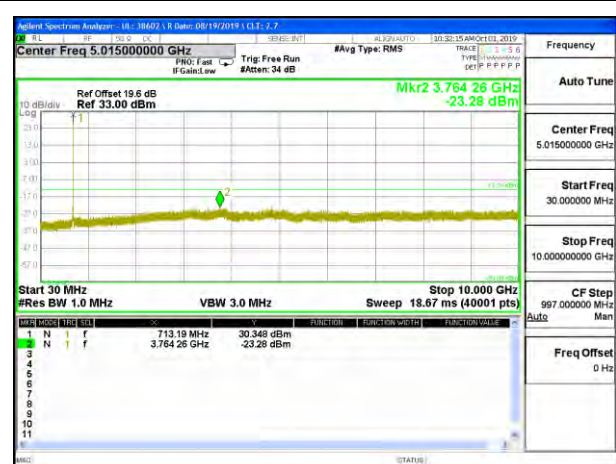

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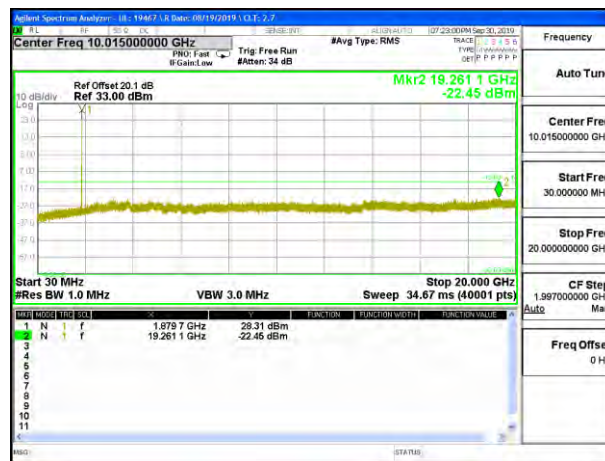
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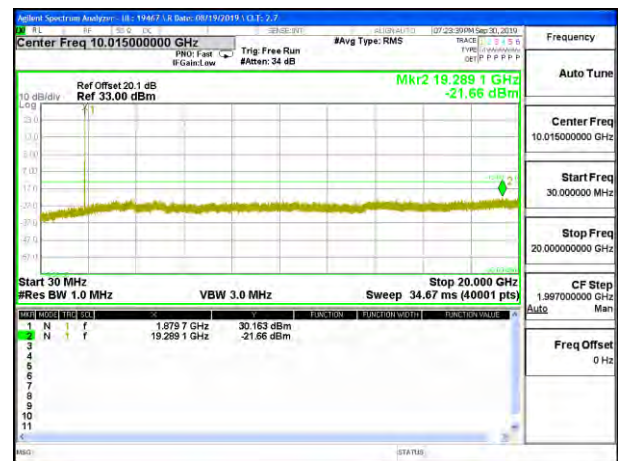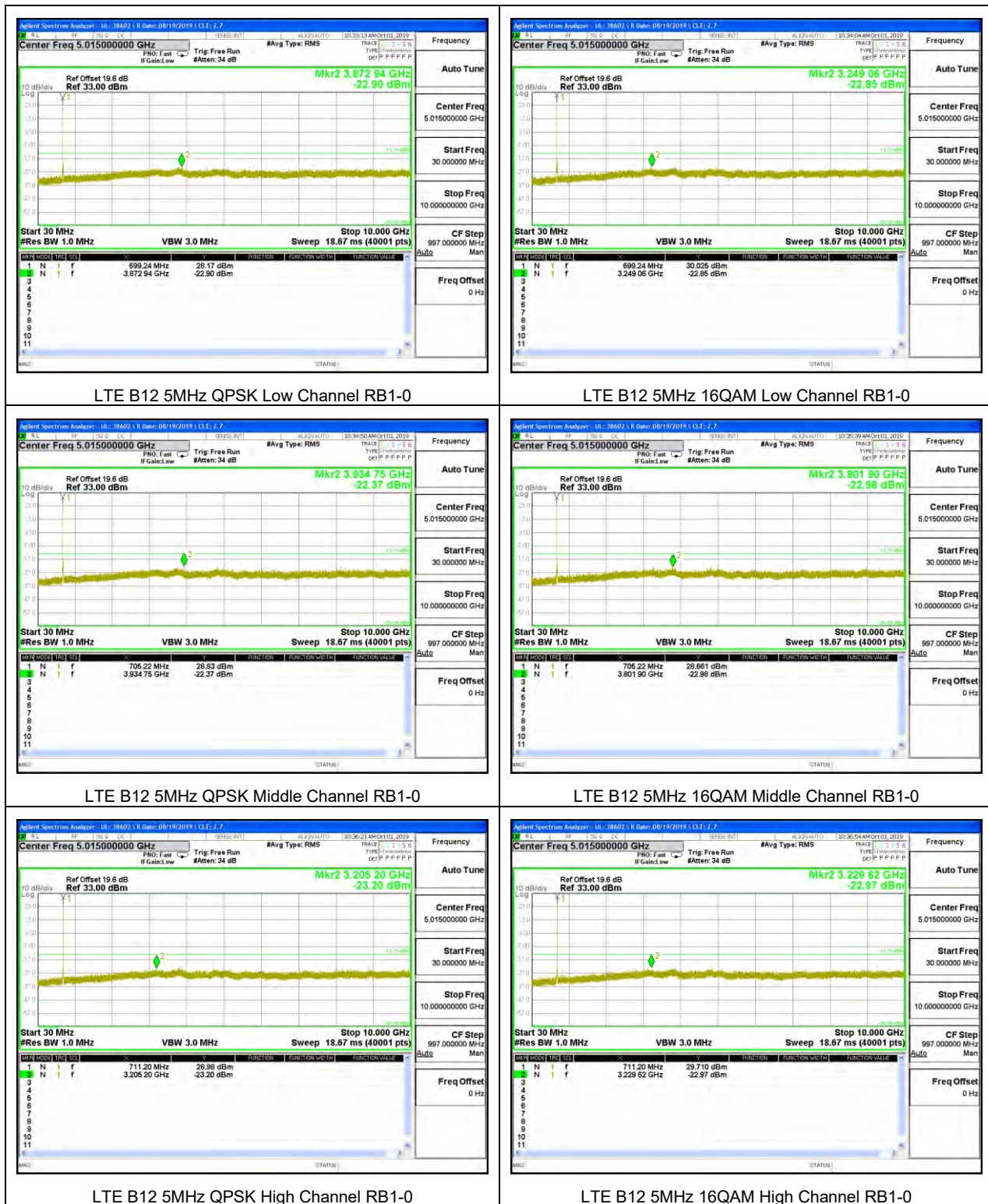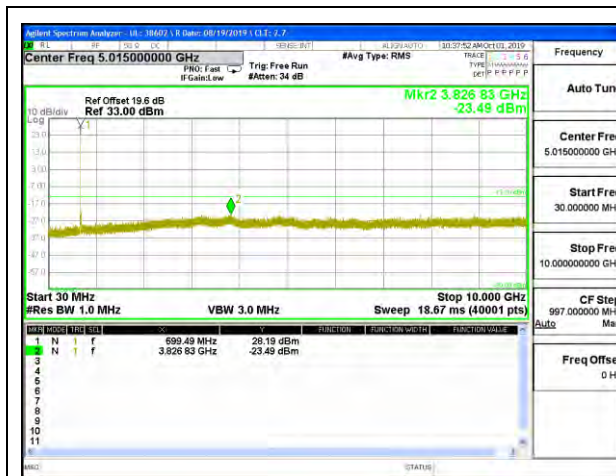

LTE B2 1.4MHz 16QAM Middle Channel RB1-0
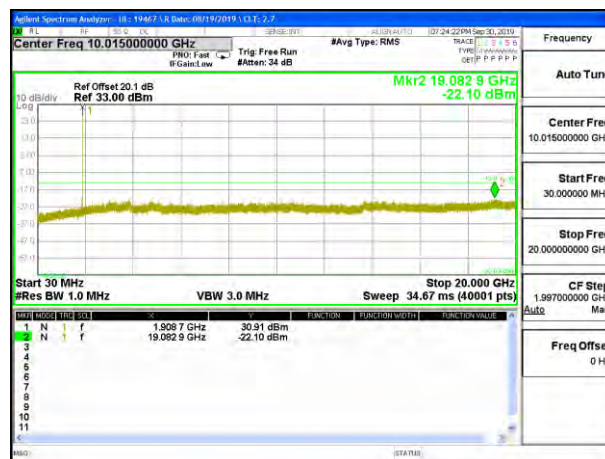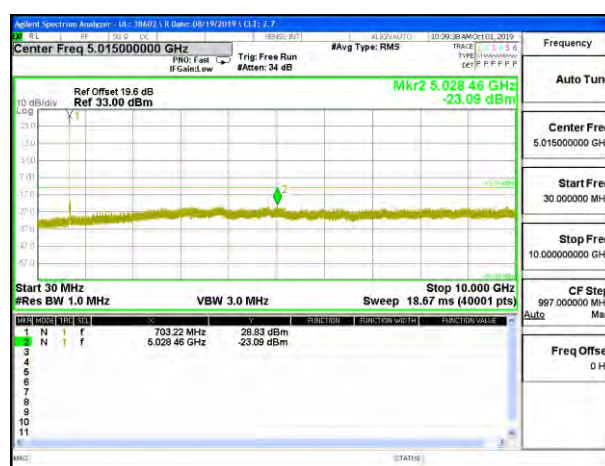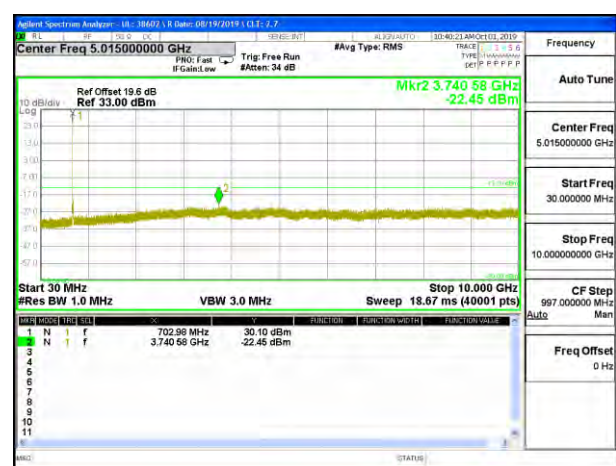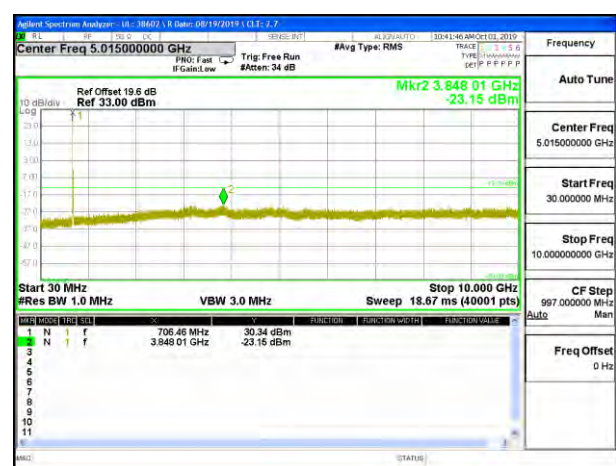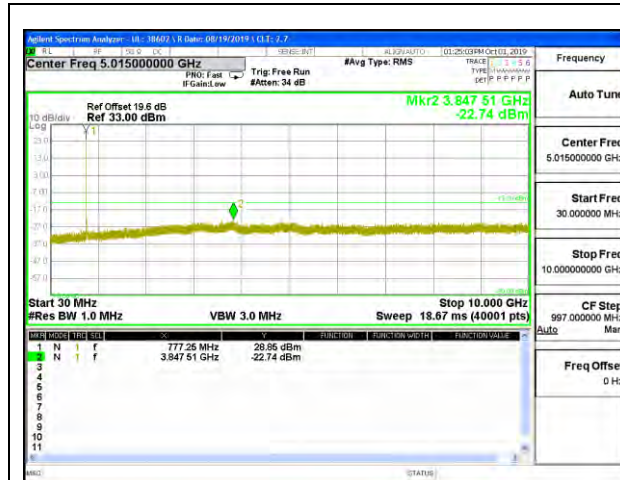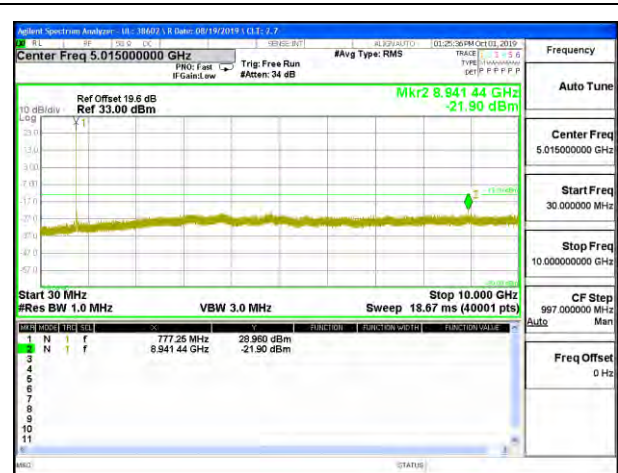

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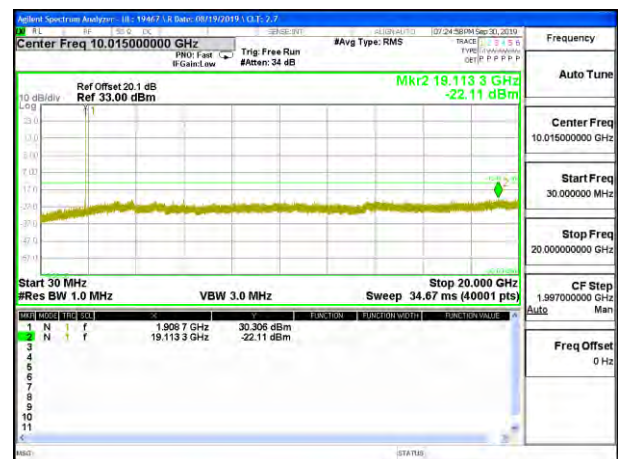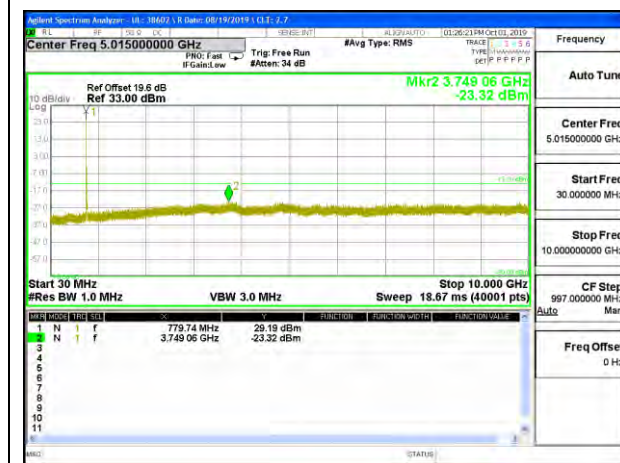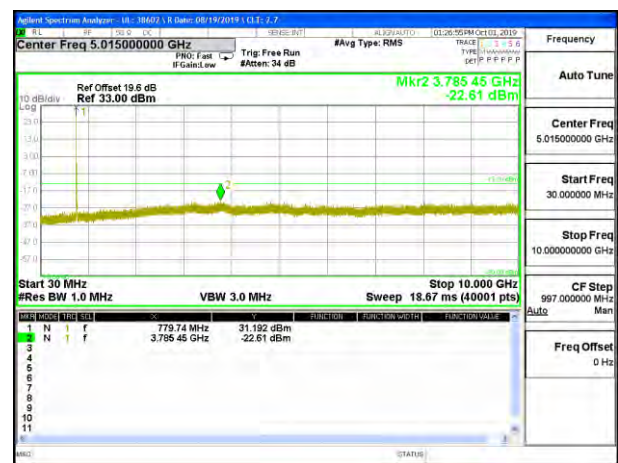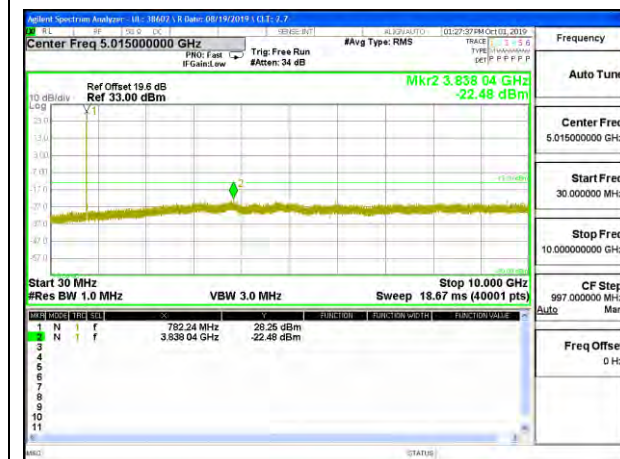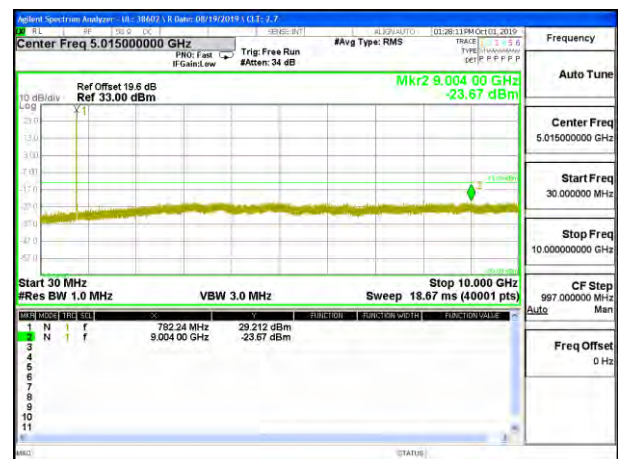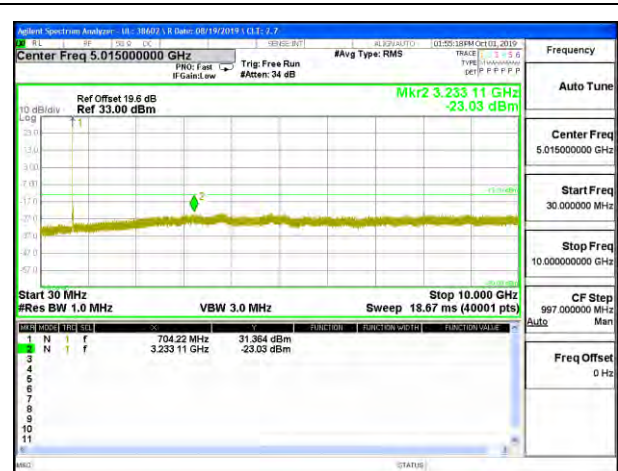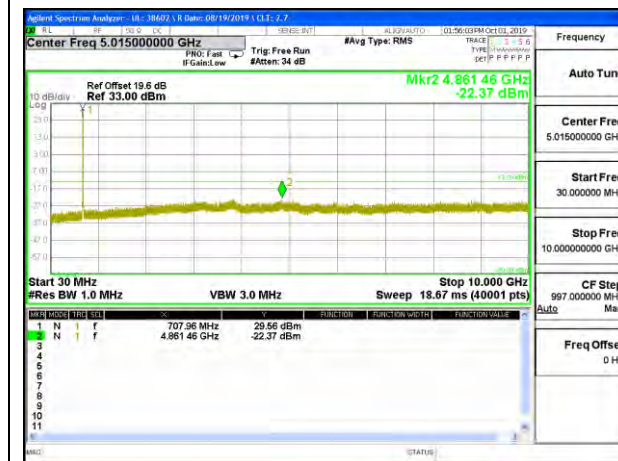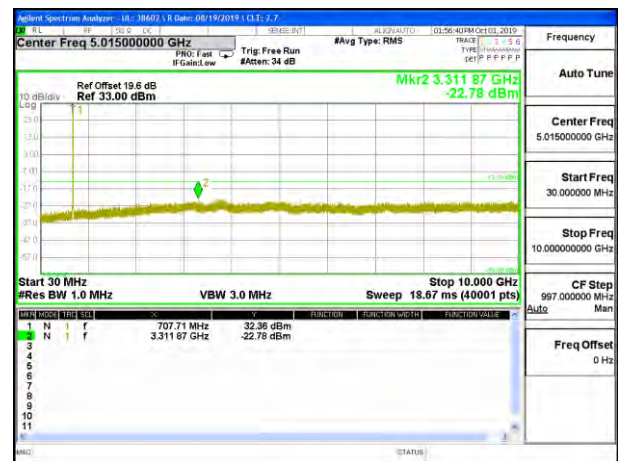

LTE B2 1.4MHz 16QAM High Channel RB1-0
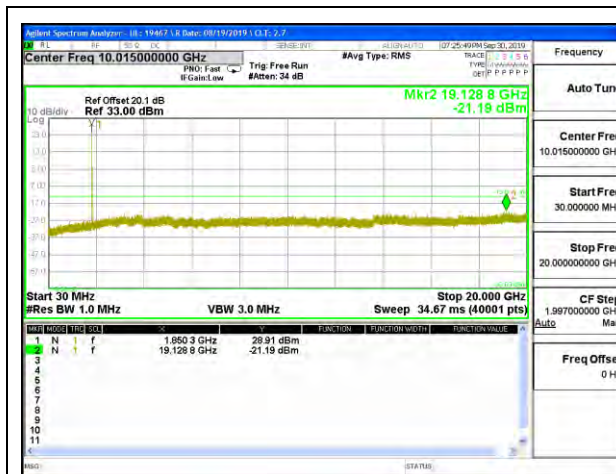
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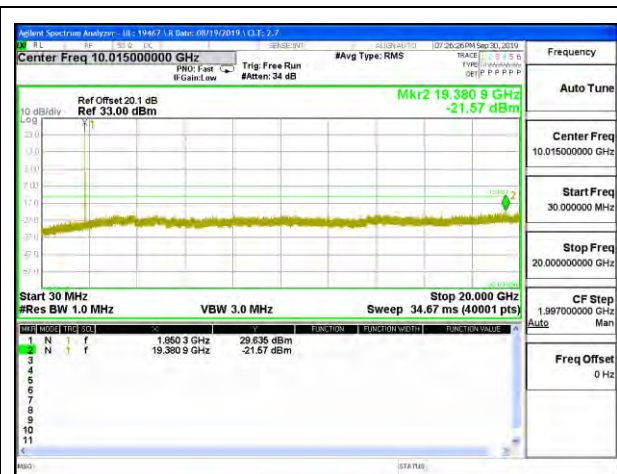
LTE B2 3MHz 16QAM Low Channel RB1-0
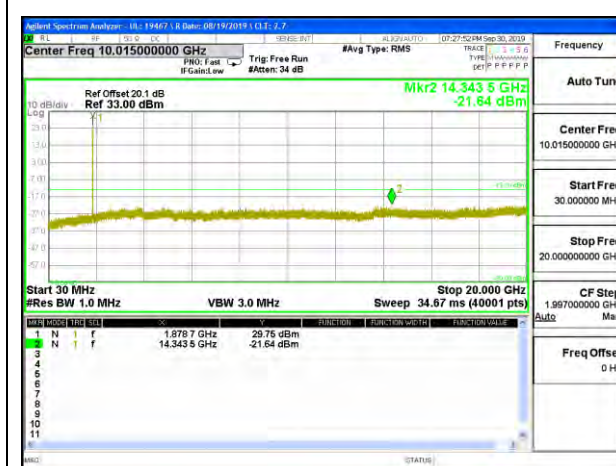
LTE B2 3MHz QPSK Middle Channel RB1-0
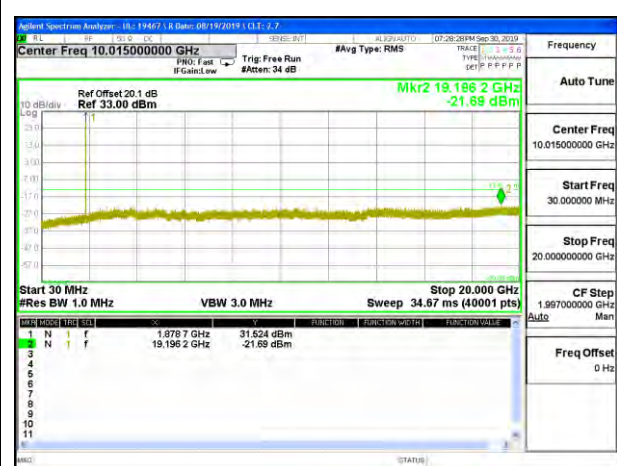
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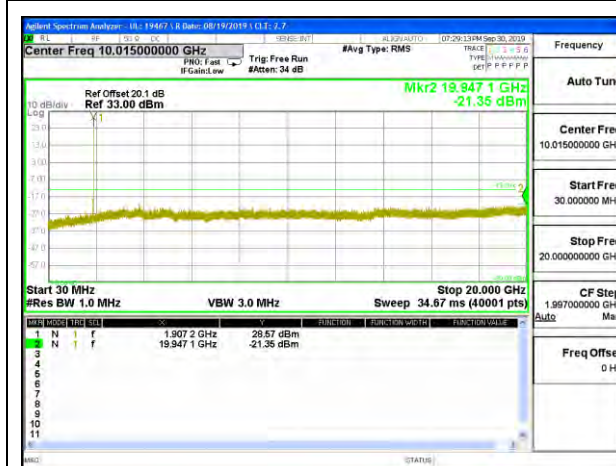
LTE B2 3MHz QPSK High Channel RB1-0

LTE B2 3MHz 16QAM High Channel RB1-0
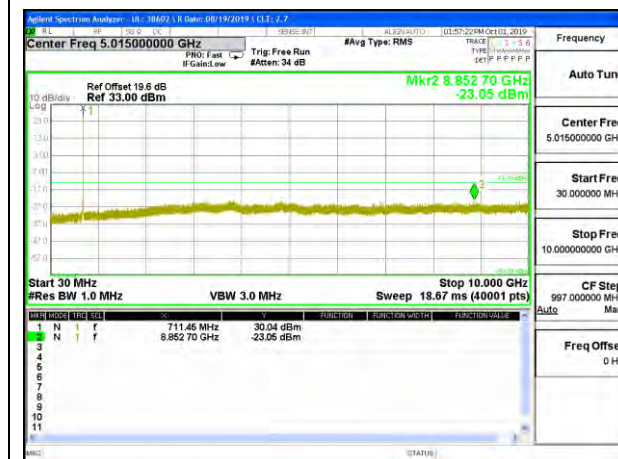
LTE B2 5MHz QPSK Low Channel RB1-0
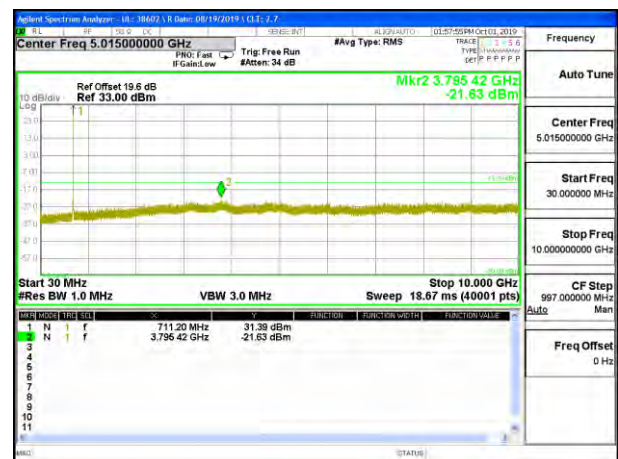

LTE B2 5MHz 16QAM Low Channel RB1-0

LTE B2 5MHz QPSK Middle Channel RB1-0
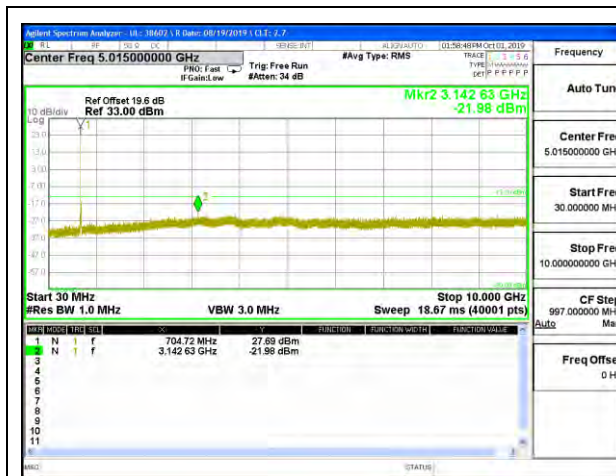

LTE B2 5MHz 16QAM Middle Channel RB1-0

LTE B2 5MHz QPSK High Channel RB1-0

LTE B2 5MHz 16QAM High Channel RB1-0

LTE B2 10MHz QPSK Low Channel RB1-0

LTE B2 10MHz 16QAM Low Channel RB1-0

LTE B2 10MHz QPSK Middle Channel RB1-0

LTE B2 10MHz 16QAM Middle Channel RB1-0
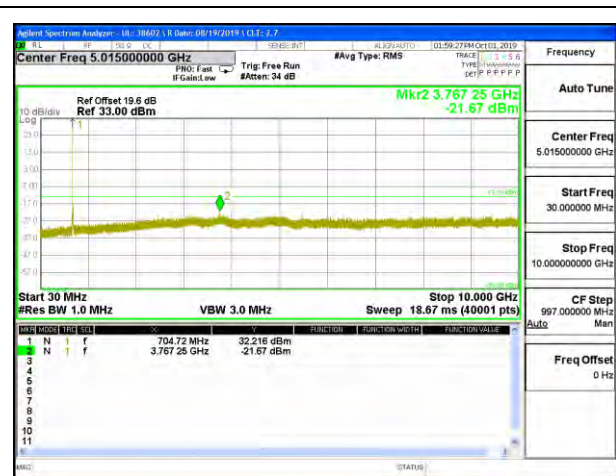

LTE B2 10MHz QPSK High Channel RB1-0

LTE B2 10MHz 16QAM High Channel RB1-0

LTE B2 15MHz QPSK Low Channel RB1-0

LTE B2 15MHz 16QAM Low Channel RB1-0

LTE B2 15MHz QPSK Middle Channel RB1-0

LTE B2 15MHz 16QAM Middle Channel RB1-0

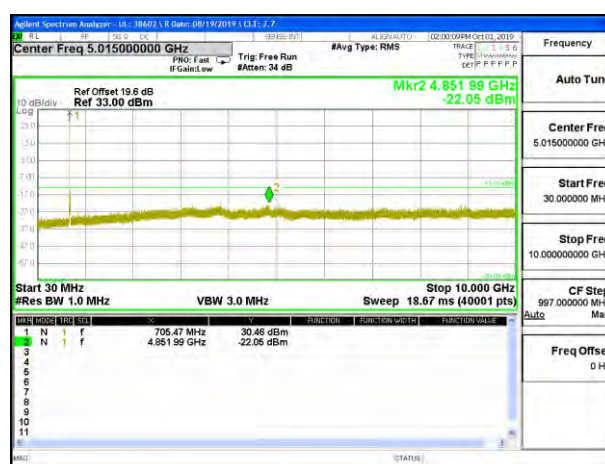LTE B2 15MHz QPSK High Channel RB1-0

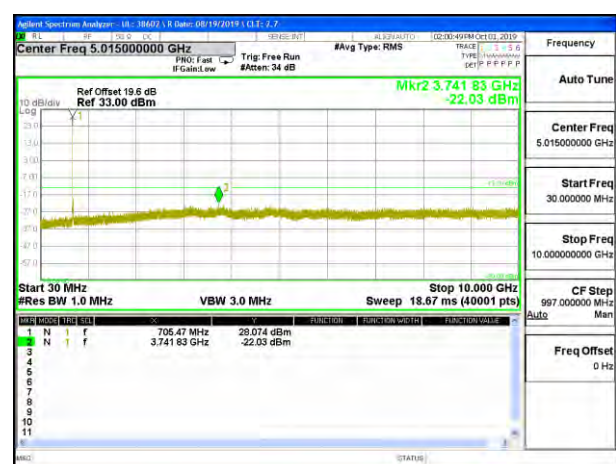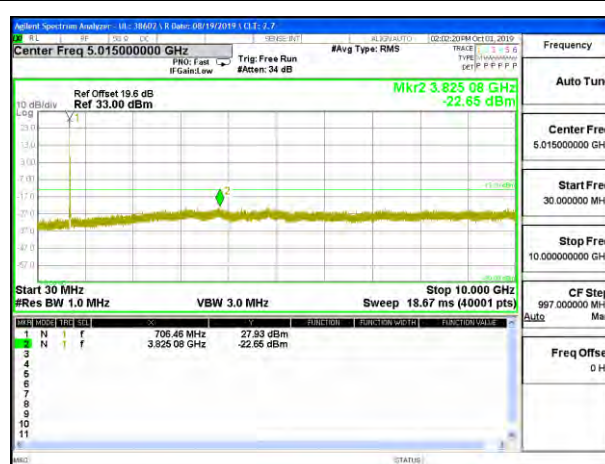LTE B2 15MHz 16QAM High Channel RB1-0

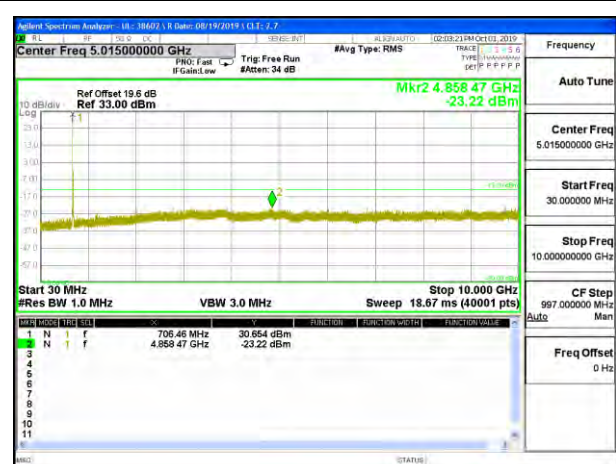LTE B2 20MHz QPSK Low Channel RB1-0

LTE B2 20MHz 16QAM Low Channel RB1-0

LTE B2 20MHz QPSK Middle Channel RB1-0

LTE B2 20MHz 16QAM Middle Channel RB1-0

LTE B2 20MHz QPSK High Channel RB1-0

LTE B2 20MHz 16QAM High Channel RB1-0

8.3.2. LTE BAND 5
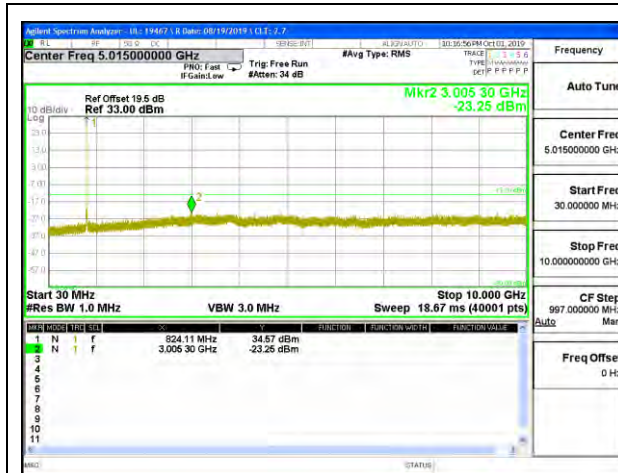
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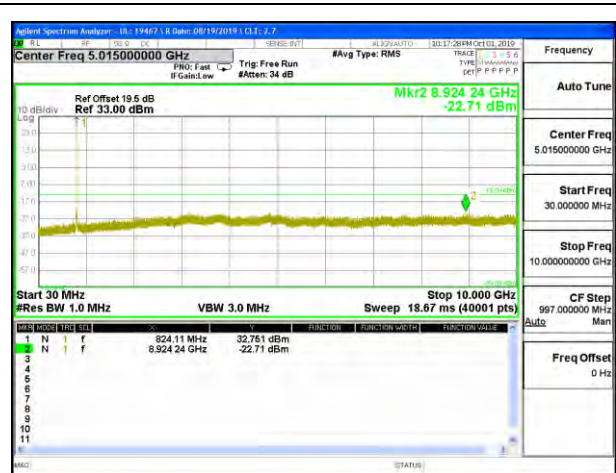
LTE B5 1.4MHz 16QAM Low Channel RB1-0
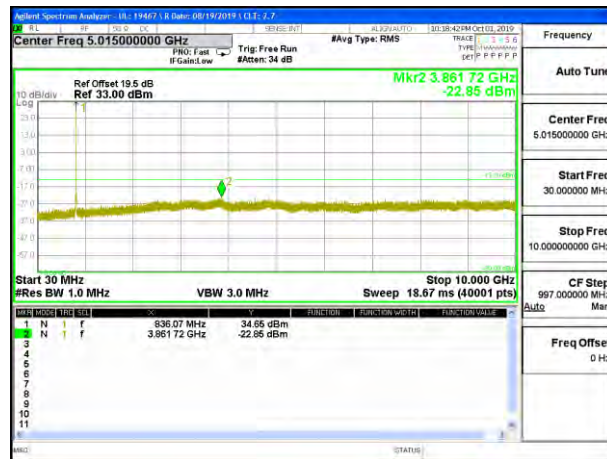
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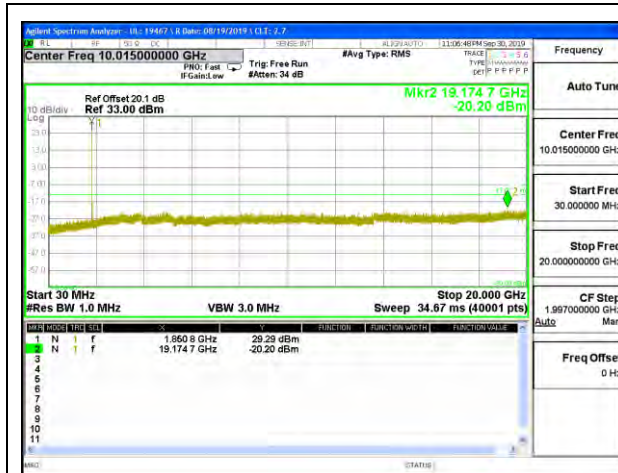

LTE B5 1.4MHz 16QAM Middle Channel RB1-0

LTE B5 1.4MHz QPSK High Channel RB1-0

LTE B5 1.4MHz 16QAM High Channel RB1-0

LTE B5 3MHz QPSK Low Channel RB1-0

LTE B5 3MHz 16QAM Low Channel RB1-0

LTE B5 3MHz QPSK Middle Channel RB1-0

LTE B5 3MHz 16QAM Middle Channel RB1-0
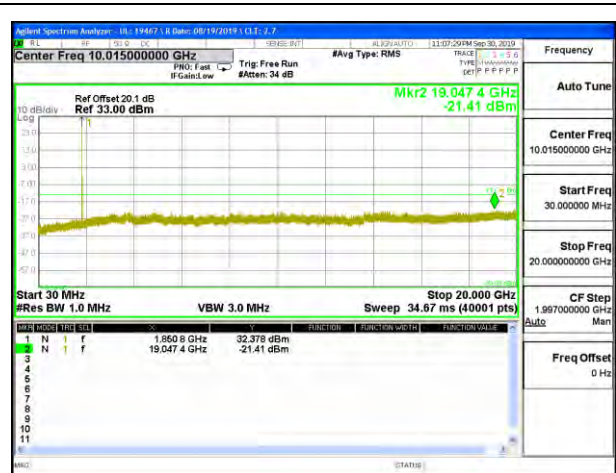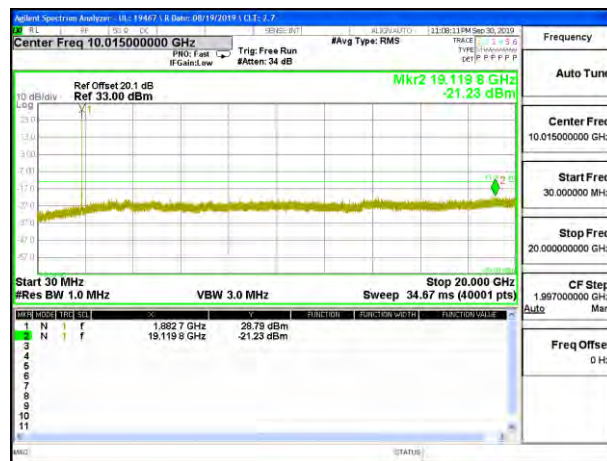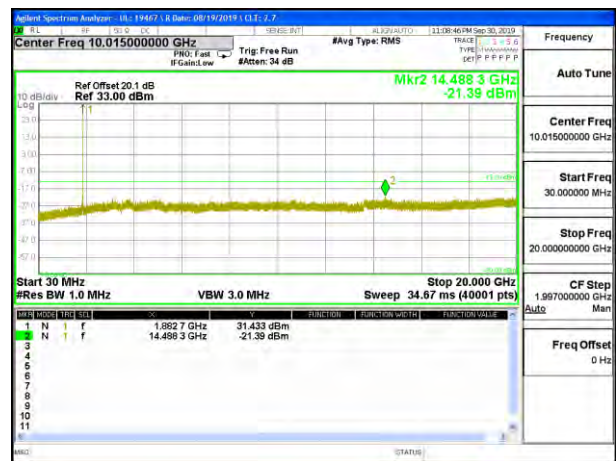

LTE B5 3MHz QPSK High Channel RB1-0

LTE B5 3MHz 16QAM High Channel RB1-0

LTE B5 5MHz QPSK Low Channel RB1-0
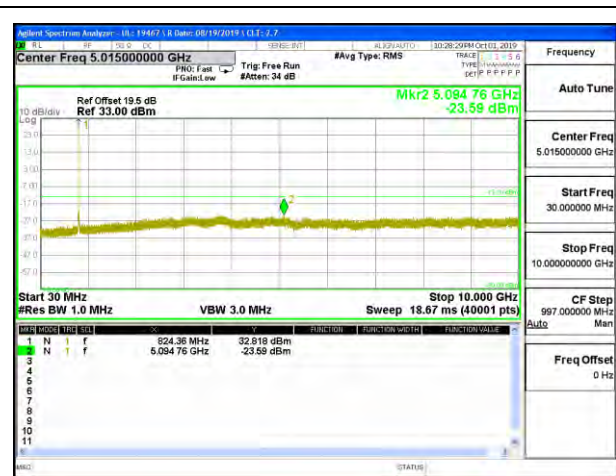
LTE B5 5MHz 16QAM Low Channel RB1-0
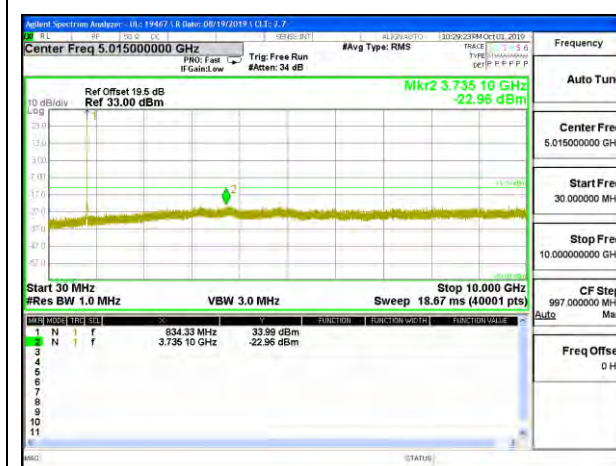
LTE B5 5MHz QPSK Middle Channel RB1-0

LTE B5 5MHz 16QAM Middle Channel RB1-0

LTE B5 5MHz QPSK High Channel RB1-0

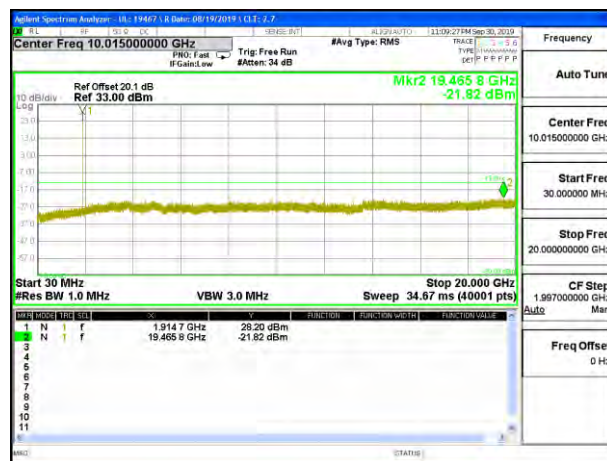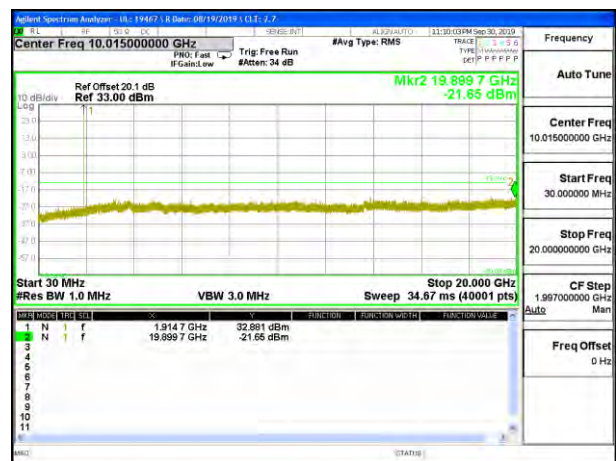LTE B5 5MHz 16QAM High Channel RB1-0

LTE B5 10MHz QPSK Low Channel RB1-0

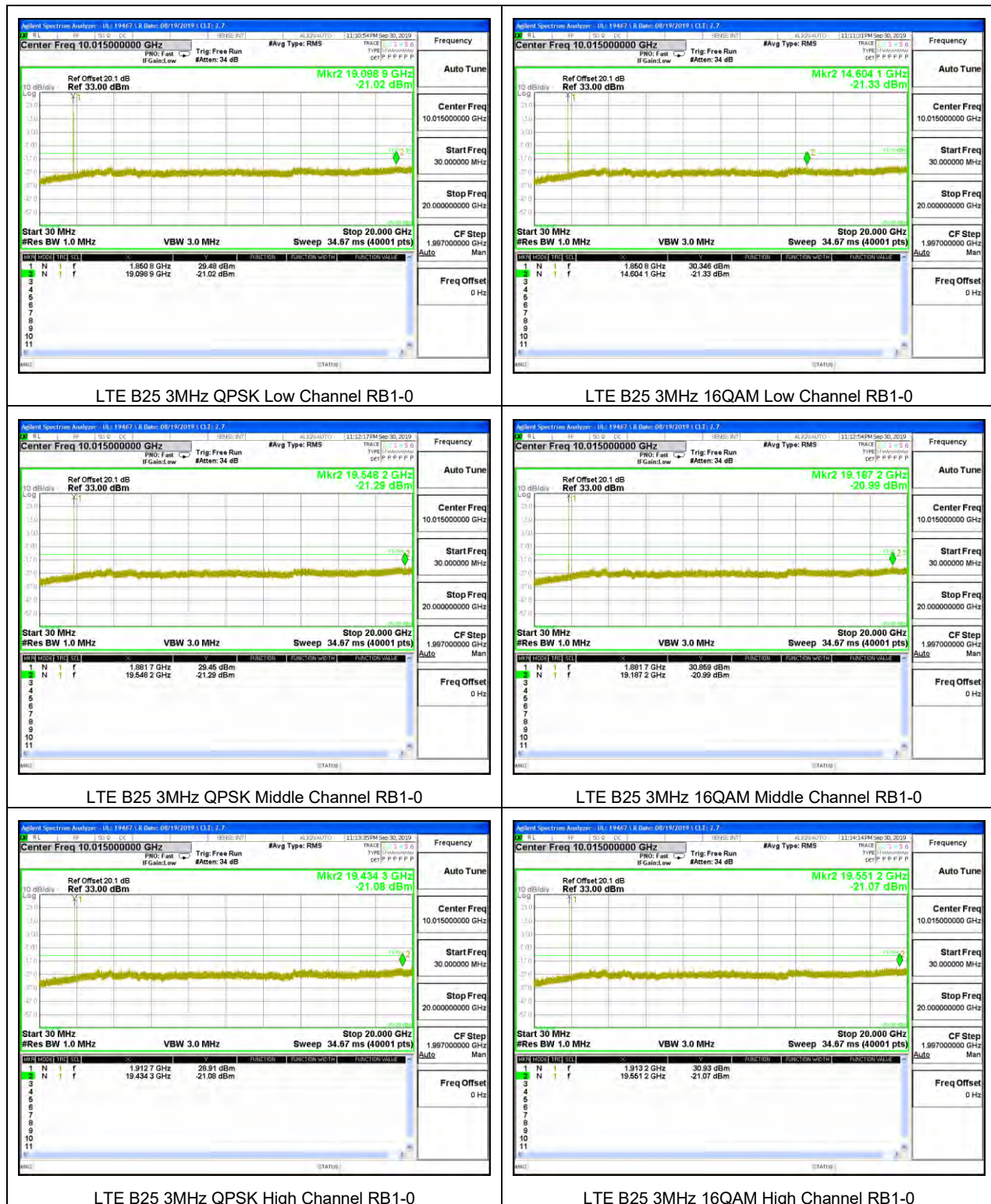LTE B5 10MHz 16QAM Low Channel RB1-0

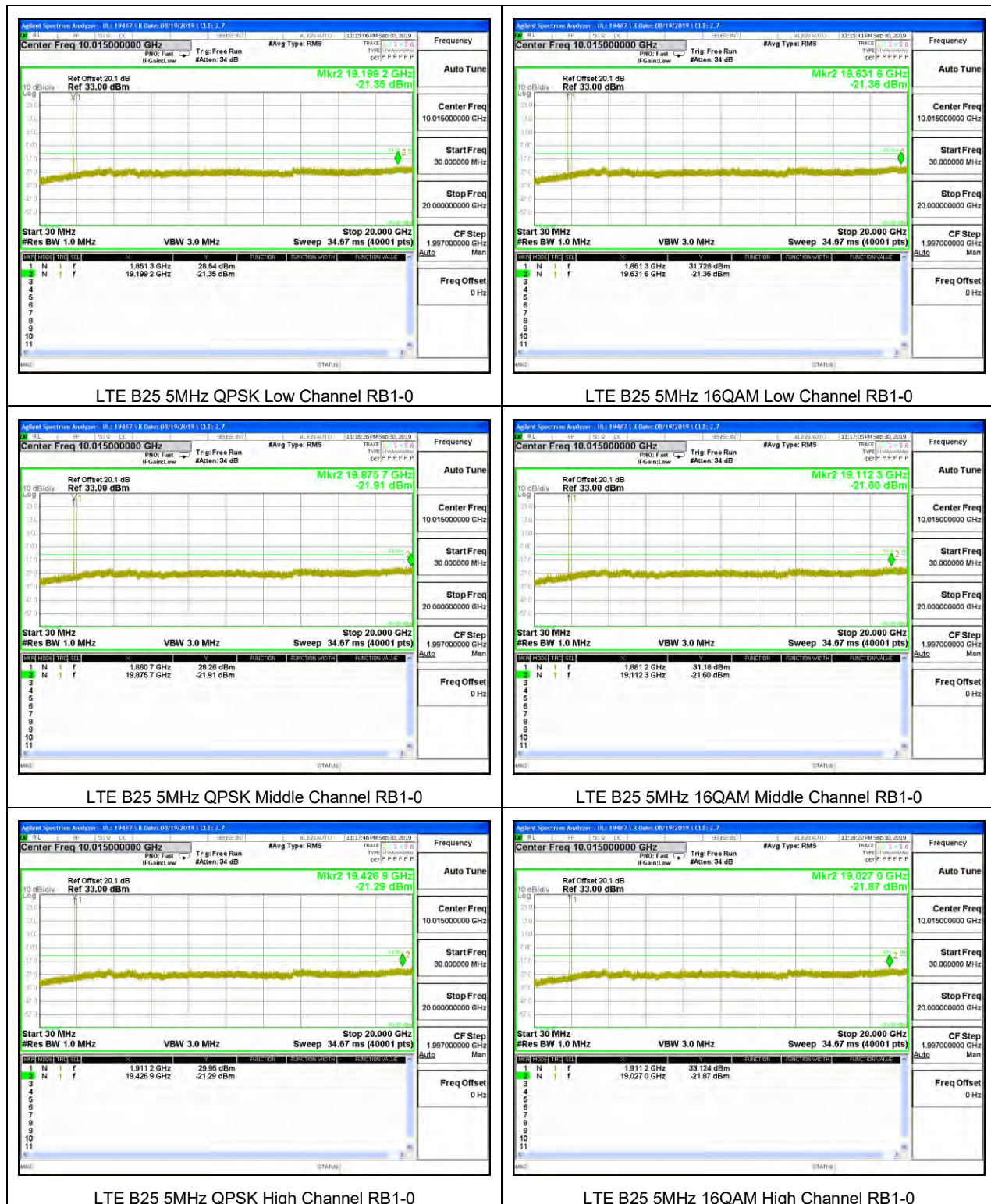LTE B5 10MHz QPSK Middle Channel RB1-0

LTE B5 10MHz 16QAM Middle Channel RB1-0

LTE B5 10MHz QPSK High Channel RB1-0

LTE B5 10MHz 16QAM High Channel RB1-0

8.3.3. LTE BAND 7

LTE B7 5MHz QPSK Low Channel RB1-0

LTE B7 5MHz 16QAM Low Channel RB1-0

LTE B7 5MHz QPSK Middle Channel RB1-0

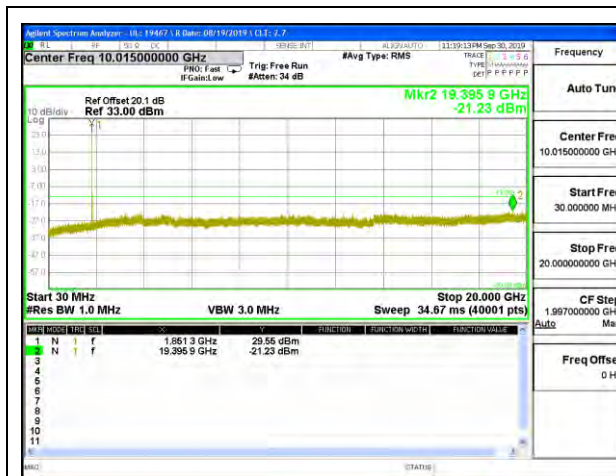LTE B7 5MHz 16QAM Middle Channel RB1-0

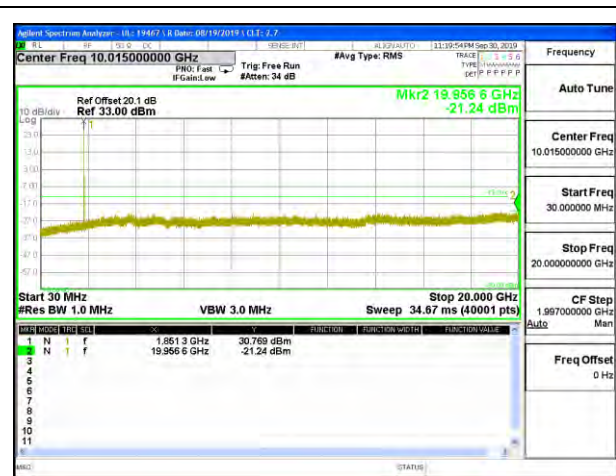LTE B7 5MHz QPSK High Channel RB1-0

LTE B7 5MHz 16QAM High Channel RB1-0

LTE B7 10MHz QPSK Low Channel RB1-0

LTE B7 10MHz 16QAM Low Channel RB1-0

LTE B7 10MHz QPSK Middle Channel RB1-0

LTE B7 10MHz 16QAM Middle Channel RB1-0

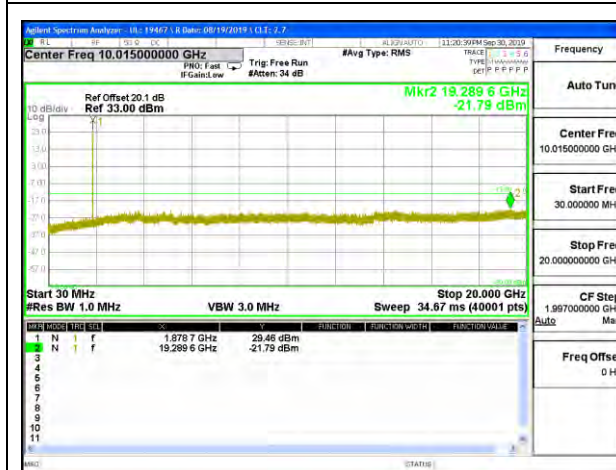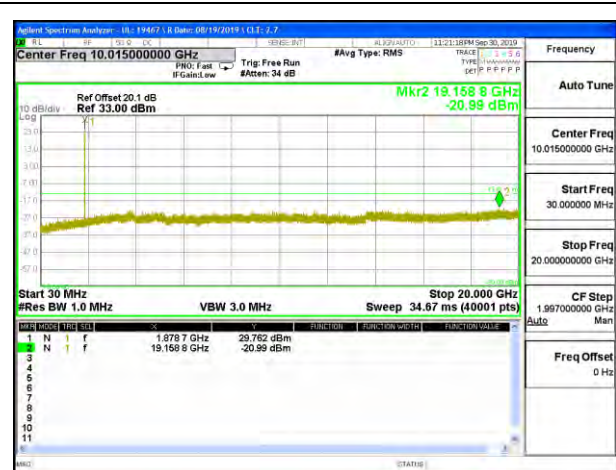LTE B7 10MHz QPSK High Channel RB1-0

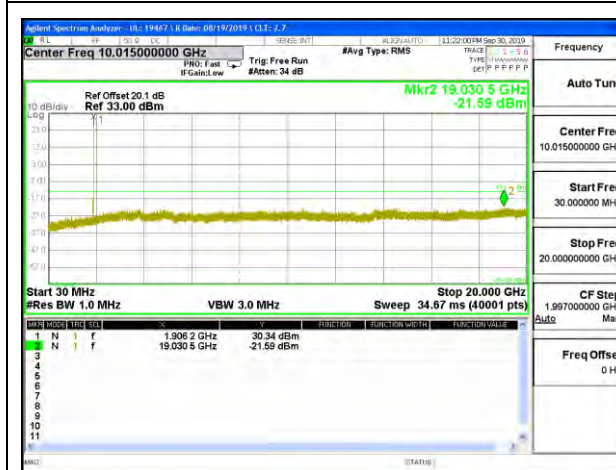LTE B7 10MHz 16QAM High Channel RB1-0

LTE B7 15MHz QPSK Low Channel RB1-0

LTE B7 15MHz 16QAM Low Channel RB1-0

LTE B7 15MHz QPSK Middle Channel RB1-0

LTE B7 15MHz 16QAM Middle Channel RB1-0

LTE B7 15MHz QPSK High Channel RB1-0

LTE B7 15MHz 16QAM High Channel RB1-0

LTE B7 20MHz QPSK Low Channel RB1-0
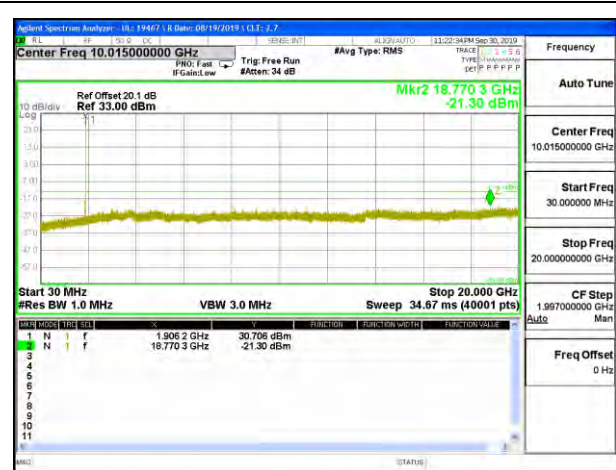

LTE B7 20MHz 16QAM Low Channel RB1-0

LTE B7 20MHz QPSK Middle Channel RB1-0

LTE B7 20MHz 16QAM Middle Channel RB1-0

LTE B7 20MHz QPSK High Channel RB1-0

LTE B7 20MHz 16QAM High Channel RB1-0

8.3.4. LTE BAND 12

LTE B12 1.4MHz QPSK Low Channel RB1-0
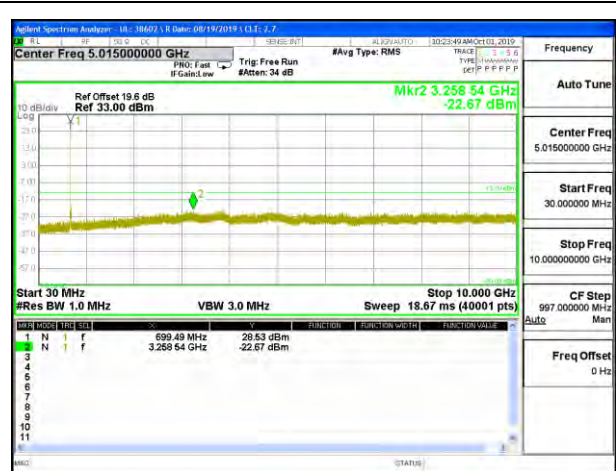
LTE B12 1.4MHz 16QAM Low Channel RB1-0
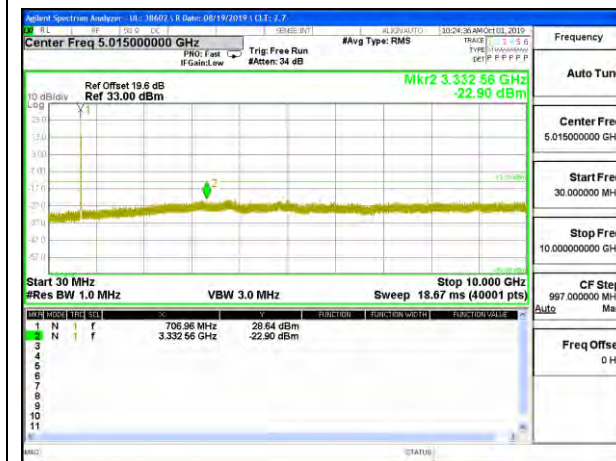
LTE B12 1.4MHz QPSK Middle Channel RB1-0
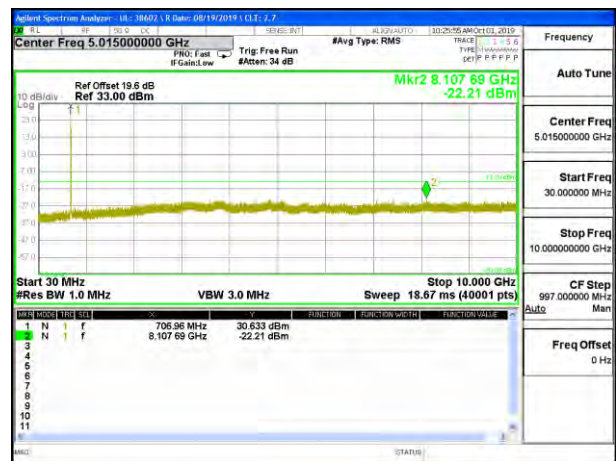
LTE B12 1.4MHz 16QAM Middle Channel RB1-0
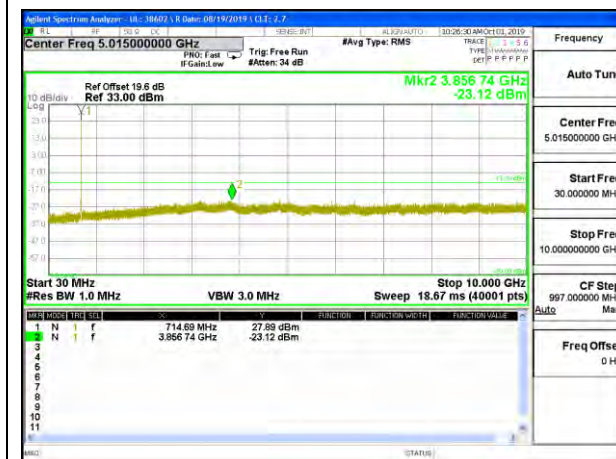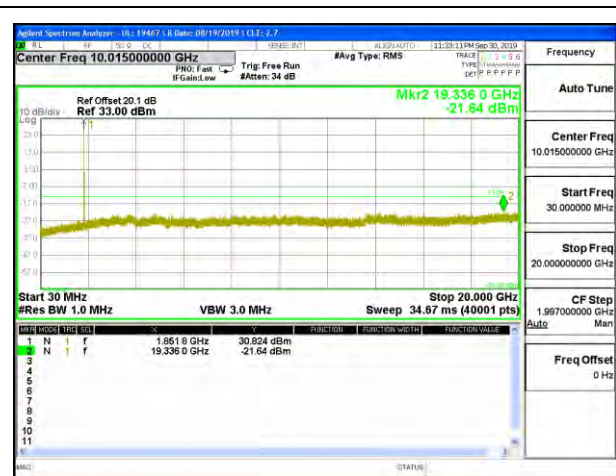

LTE B12 1.4MHz QPSK High Channel RB1-0
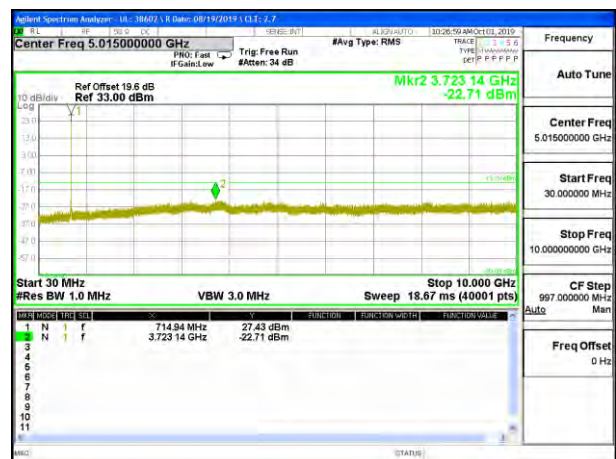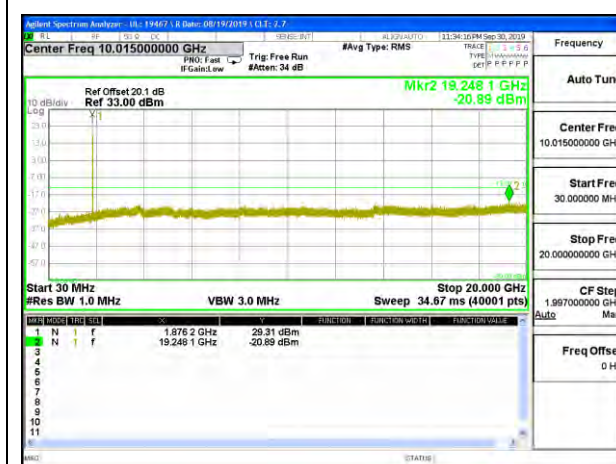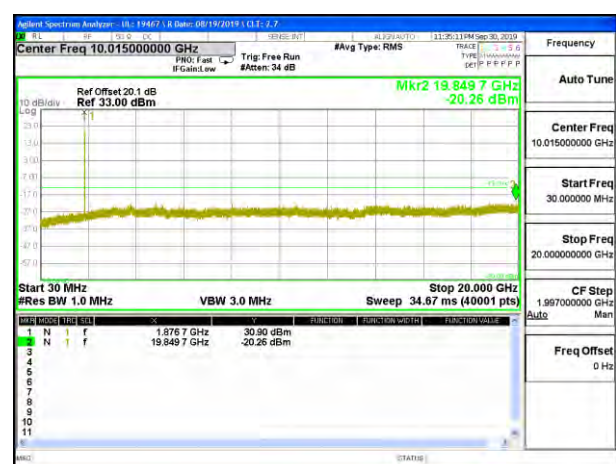

LTE B12 1.4MHz 16QAM High Channel RB1-0
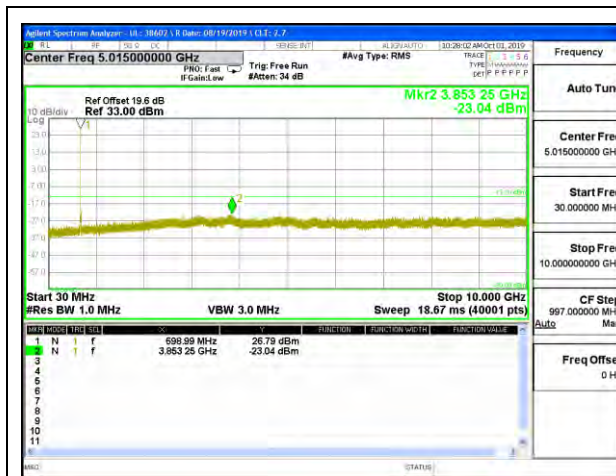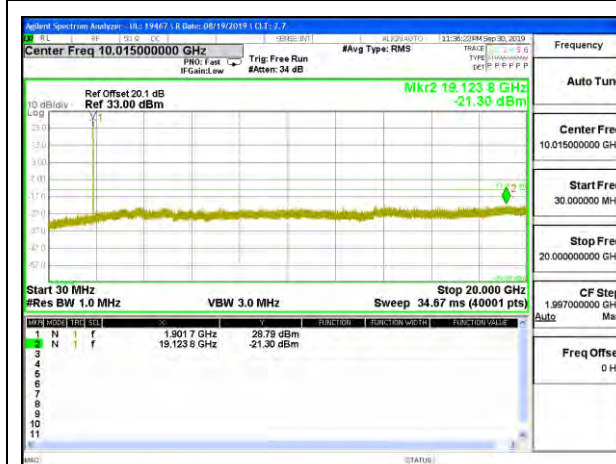
LTE B12 3MHz QPSK Low Channel RB1-0
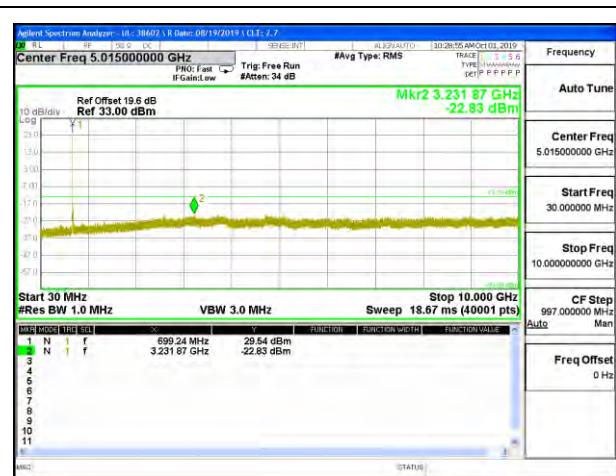
LTE B12 3MHz 16QAM Low Channel RB1-0
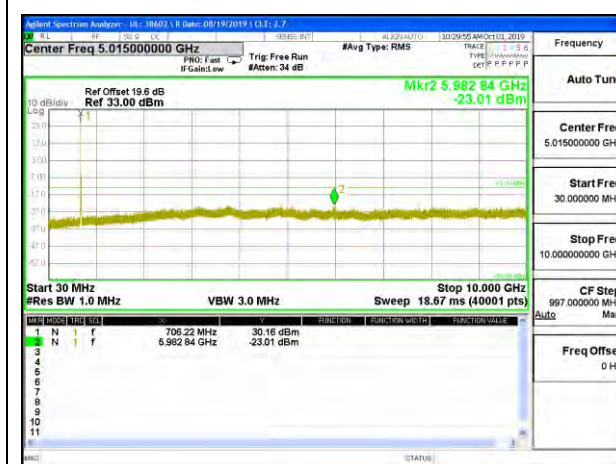
LTE B12 3MHz QPSK Middle Channel RB1-0

LTE B12 3MHz 16QAM Middle Channel RB1-0

LTE B12 3MHz QPSK High Channel RB1-0

LTE B12 3MHz 16QAM High Channel RB1-0

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LTE B12 5MHz QPSK Low Channel RB1-0
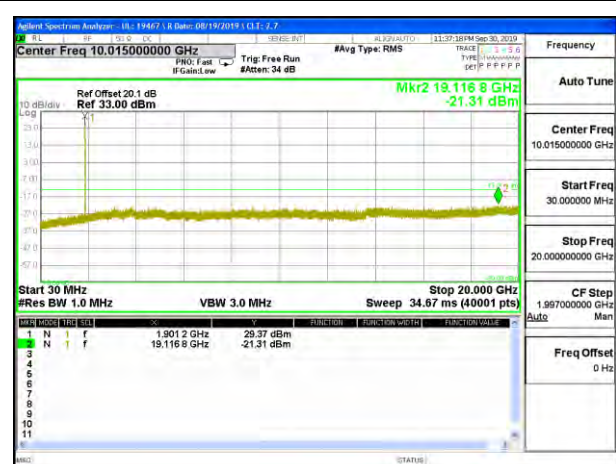

LTE B12 5MHz 16QAM Low Channel RB1-0
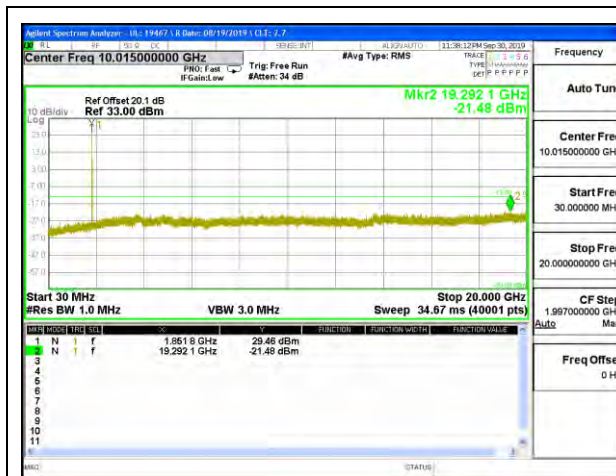

LTE B12 5MHz QPSK Middle Channel RB1-0
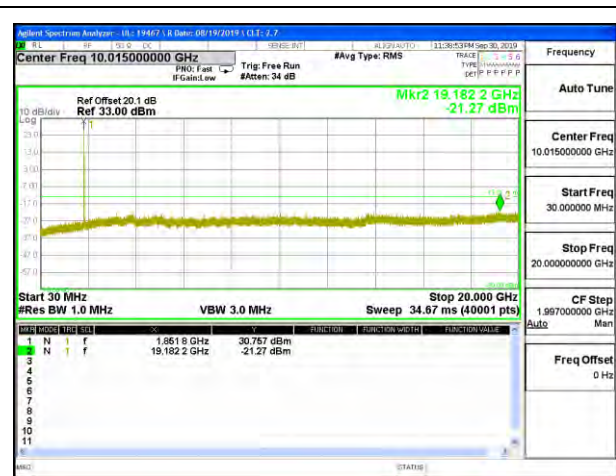

LTE B12 5MHz 16QAM Middle Channel RB1-0

LTE B12 5MHz QPSK High Channel RB1-0

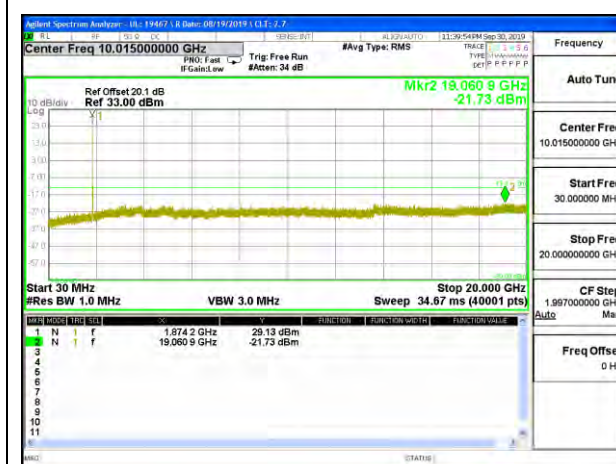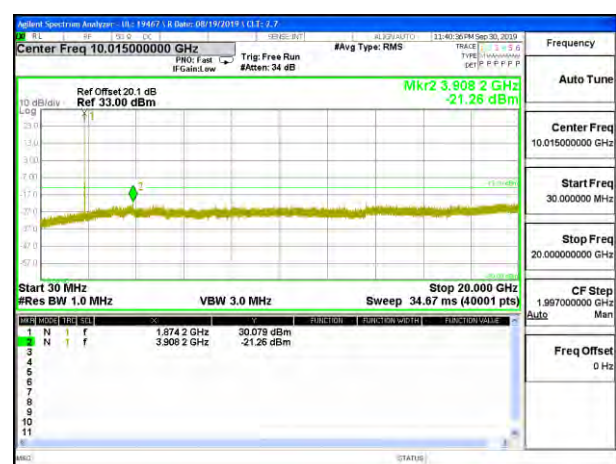LTE B12 5MHz 16QAM High Channel RB1-0

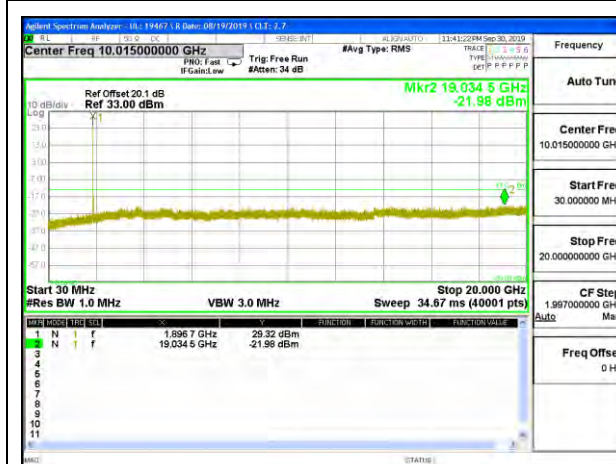LTE B12 10MHz QPSK Low Channel RB1-0
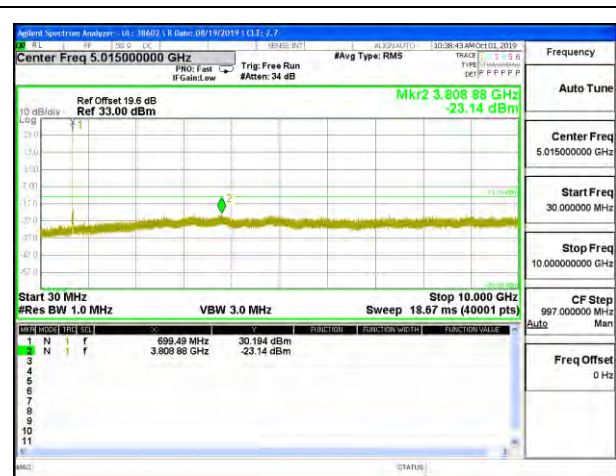
LTE B12 10MHz 16QAM Low Channel RB1-0
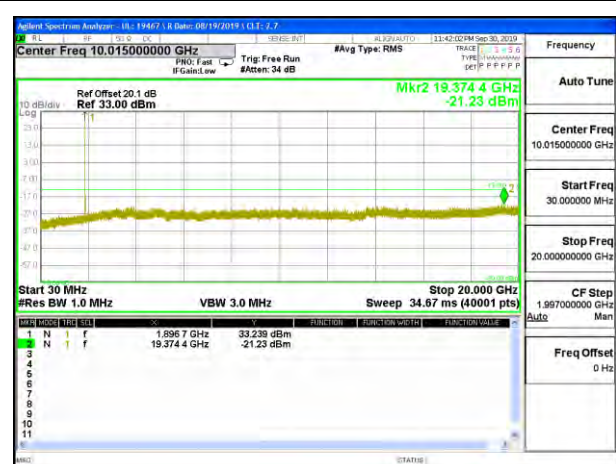

LTE B12 10MHz QPSK Middle Channel RB1-0

LTE B12 10MHz 16QAM Middle Channel RB1-0

LTE B12 10MHz QPSK High Channel RB1-0

LTE B12 10MHz 16QAM High Channel RB1-0

8.3.5. LTE BAND 13

LTE B13 5MHz QPSK Low Channel RB1-0

LTE B13 5MHz 16QAM Low Channel RB1-0

LTE B13 5MHz QPSK Middle Channel RB1-0

LTE B13 5MHz 16QAM Middle Channel RB1-0

LTE B13 5MHz QPSK High Channel RB1-0

LTE B13 5MHz 16QAM High Channel RB1-0
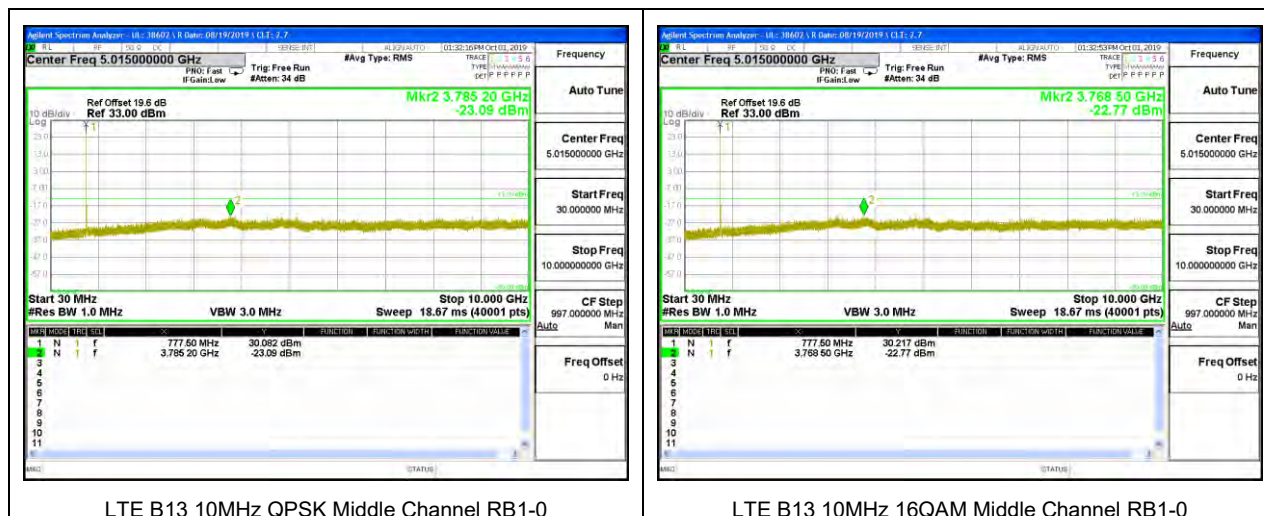
| LTE B13 10MHz QPSK Middle Channel RB1-0 | LTE B13 10MHz 16QAM Middle Channel RB1-0 |

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

8.3.6. LTE BAND 17

LTE B17 5MHz QPSK Low Channel RB1-0

LTE B17 5MHz 16QAM Low Channel RB1-0

LTE B17 5MHz QPSK Middle Channel RB1-0

LTE B17 5MHz 16QAM Middle Channel RB1-0
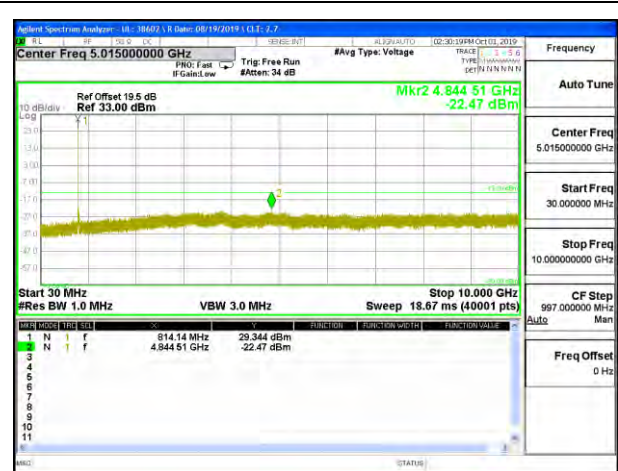

LTE B17 5MHz QPSK High Channel RB1-0

LTE B17 5MHz 16QAM High Channel RB1-0
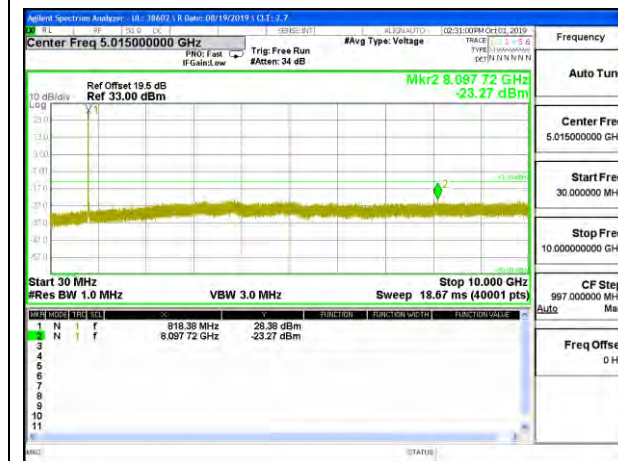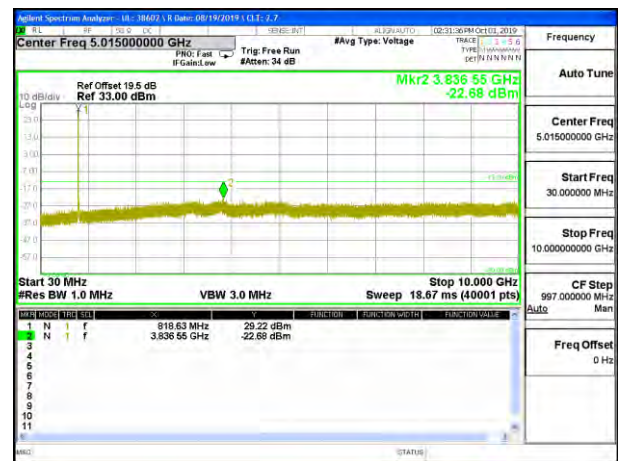
LTE B17 10MHz QPSK Low Channel RB1-0

LTE B17 10MHz 16QAM Low Channel RB1-0

LTE B17 10MHz QPSK Middle Channel RB1-0

LTE B17 10MHz 16QAM Middle Channel RB1-0

LTE B17 10MHz QPSK High Channel RB1-0

LTE B17 10MHz 16QAM High Channel RB1-0

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FAX: (510) 661-0888
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8.3.7. LTE BAND 25
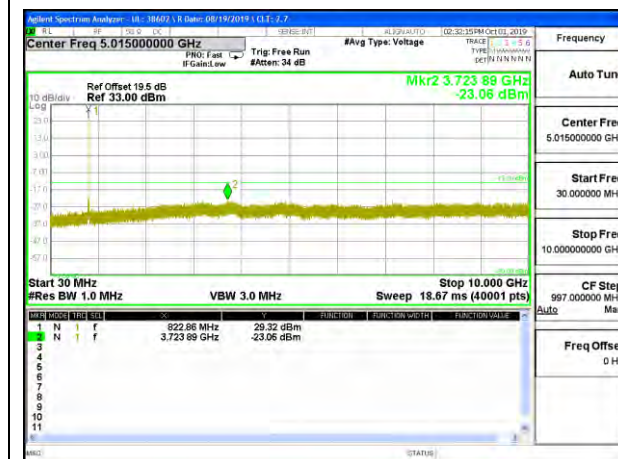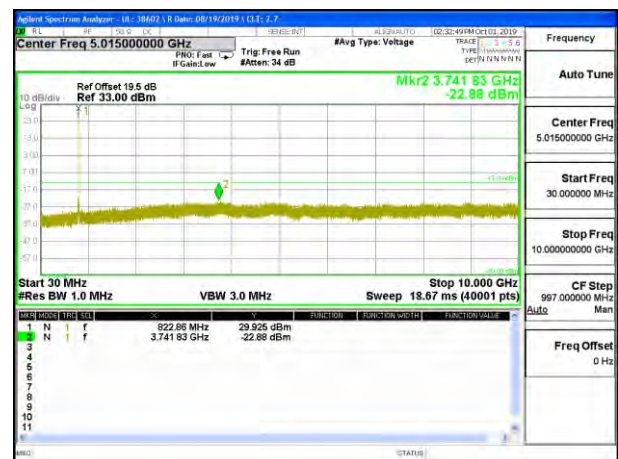

LTE B25 1.4MHz QPSK Low Channel RB1-0

LTE B25 1.4MHz 16QAM Low Channel RB1-0

LTE B25 1.4MHz QPSK Middle Channel RB1-0

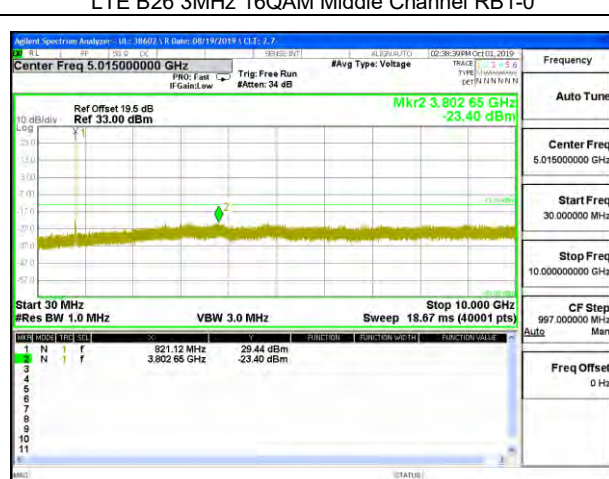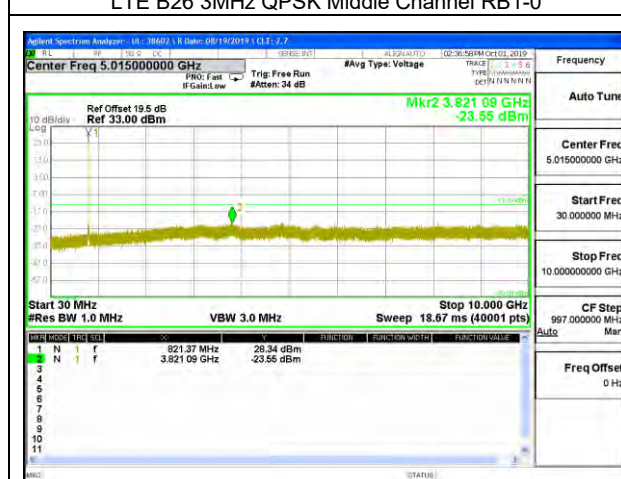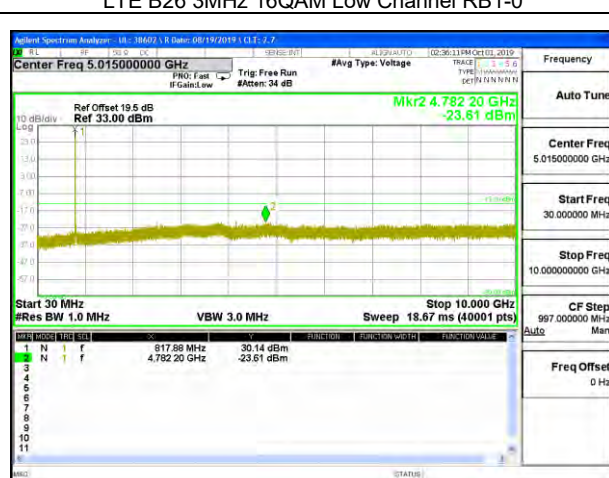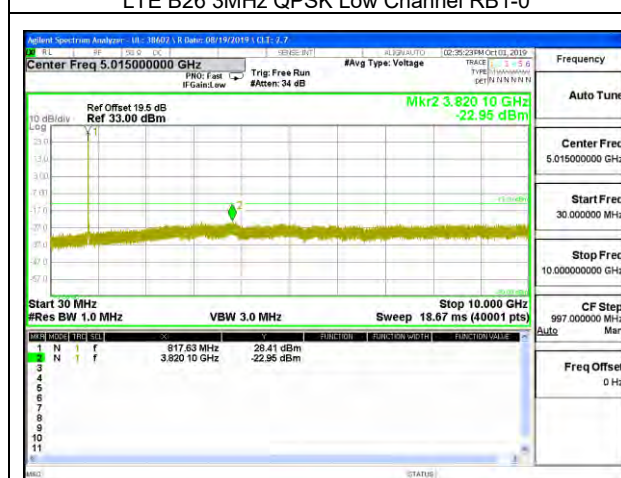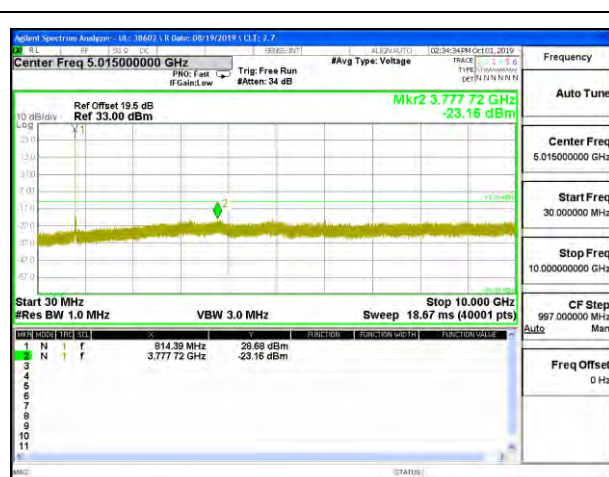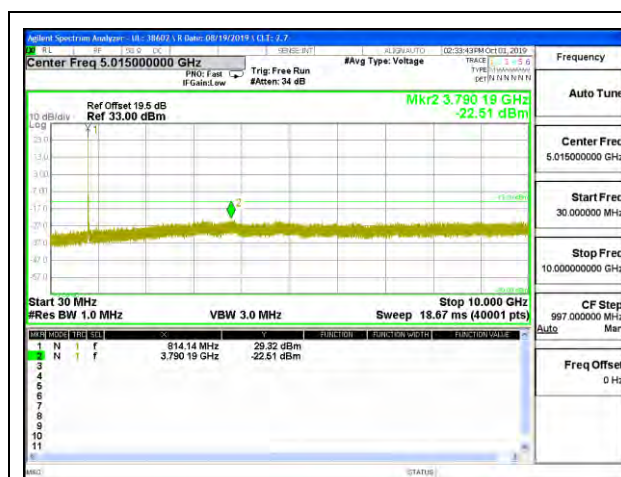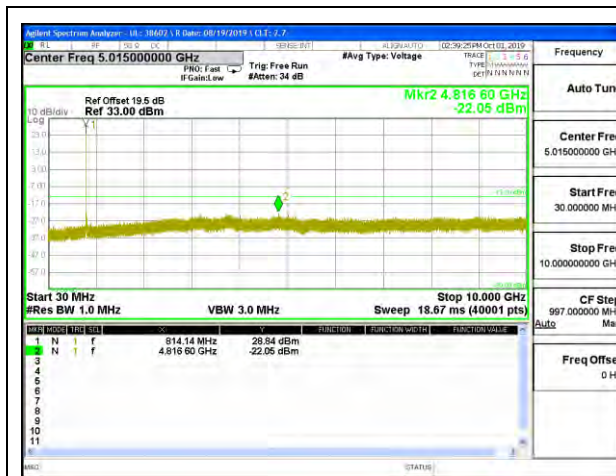LTE B25 1.4MHz 16QAM Middle Channel RB1-0

LTE B25 1.4MHz QPSK High Channel RB1-0
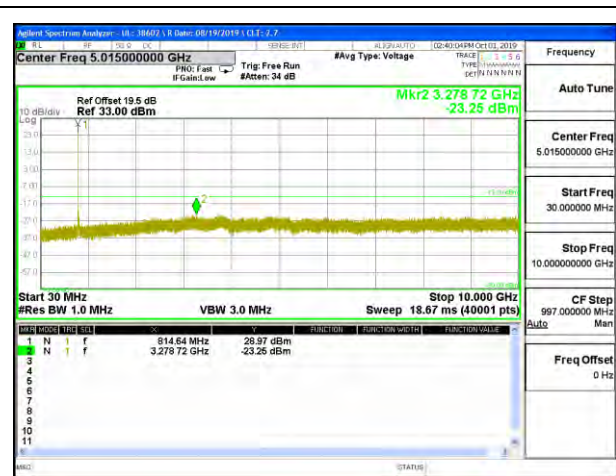

LTE B25 1.4MHz 16QAM High Channel RB1-0

LTE B25 3MHz QPSK Low Channel RB1-0

LTE B25 3MHz 16QAM Low Channel RB1-0

LTE B25 3MHz QPSK Middle Channel RB1-0

LTE B25 3MHz 16QAM Middle Channel RB1-0

LTE B25 3MHz QPSK High Channel RB1-0

LTE B25 3MHz 16QAM High Channel RB1-0

LTE B25 5MHz QPSK Low Channel RB1-0

LTE B25 5MHz 16QAM Low Channel RB1-0

LTE B25 5MHz QPSK Middle Channel RB1-0

LTE B25 5MHz 16QAM Middle Channel RB1-0

LTE B25 5MHz QPSK High Channel RB1-0

LTE B25 5MHz 16QAM High Channel RB1-0

LTE B25 10MHz QPSK Low Channel RB1-0

LTE B25 10MHz 16QAM Low Channel RB1-0

LTE B25 10MHz QPSK Middle Channel RB1-0

LTE B25 10MHz 16QAM Middle Channel RB1-0

LTE B25 10MHz QPSK High Channel RB1-0
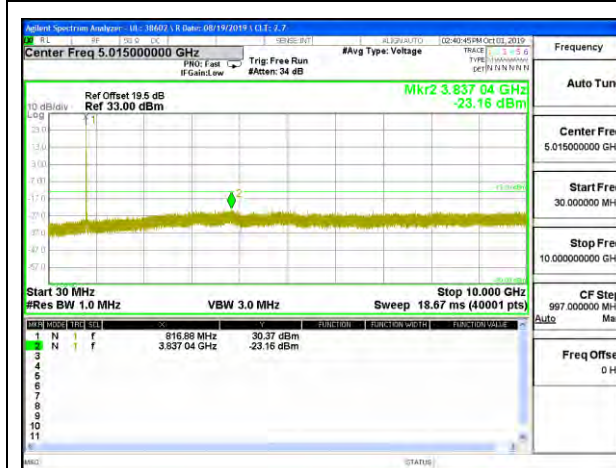

LTE B25 10MHz 16QAM High Channel RB1-0
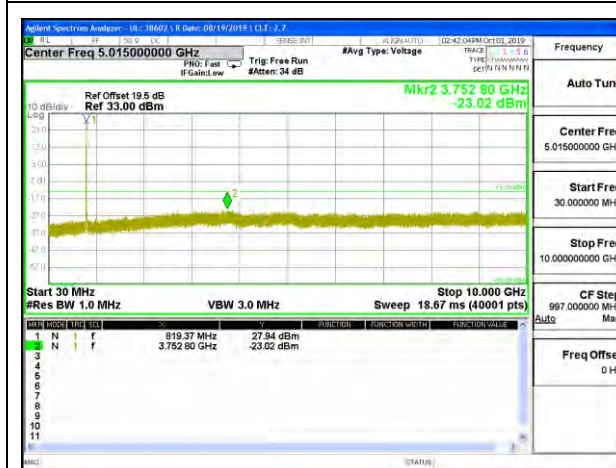
LTE B25 15MHz QPSK Low Channel RB1-0

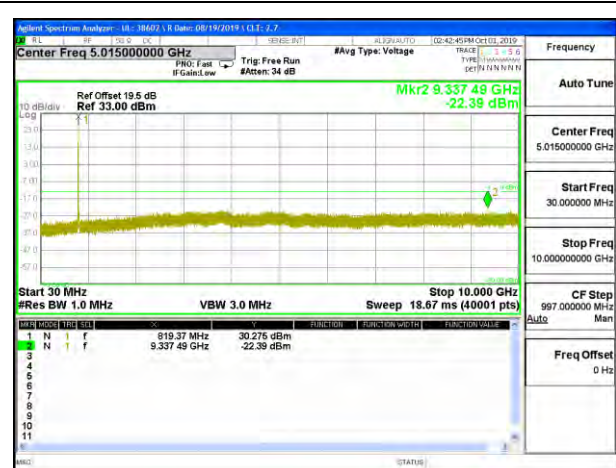LTE B25 15MHz 16QAM Low Channel RB1-0

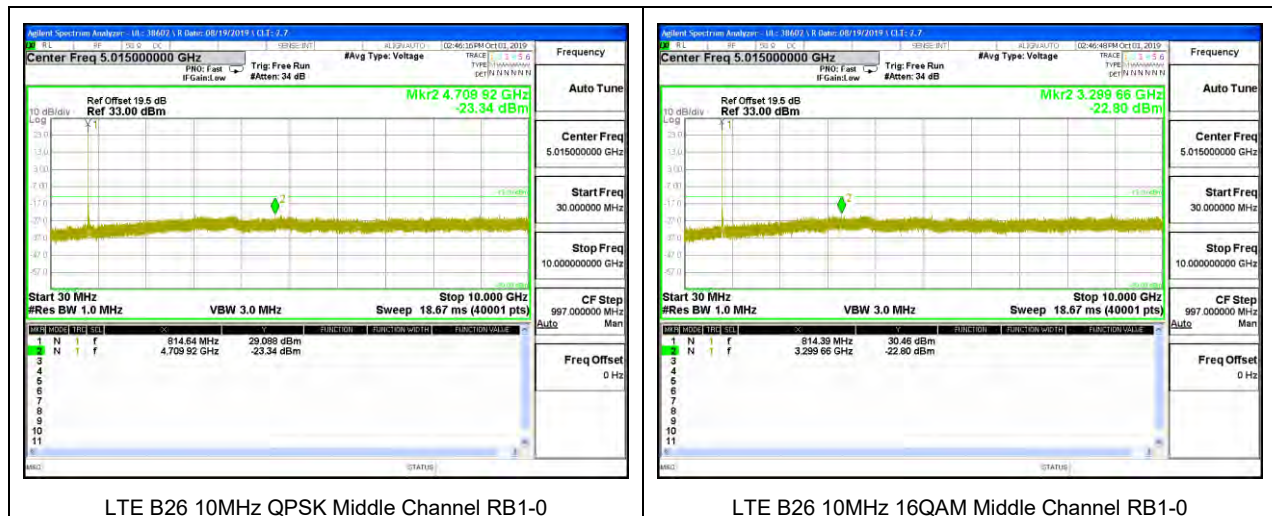LTE B25 15MHz QPSK Middle Channel RB1-0

LTE B25 15MHz 16QAM Middle Channel RB1-0

LTE B25 15MHz QPSK High Channel RB1-0

LTE B25 15MHz 16QAM High Channel RB1-0

LTE B25 20MHz QPSK Low Channel RB1-0

LTE B25 20MHz 16QAM Low Channel RB1-0

LTE B25 20MHz QPSK Middle Channel RB1-0

LTE B25 20MHz 16QAM Middle Channel RB1-0


LTE B25 20MHz QPSK High Channel RB1-0

LTE B25 20MHz 16QAM High Channel RB1-0

8.3.8. LTE BAND 26 (PART 90S)

LTE B26 1.4MHz QPSK Low Channel RB1-0

LTE B26 1.4MHz 16QAM Low Channel RB1-0

LTE B26 1.4MHz QPSK Middle Channel RB1-0

LTE B26 1.4MHz 16QAM Middle Channel RB1-0

LTE B26 1.4MHz QPSK High Channel RB1-0
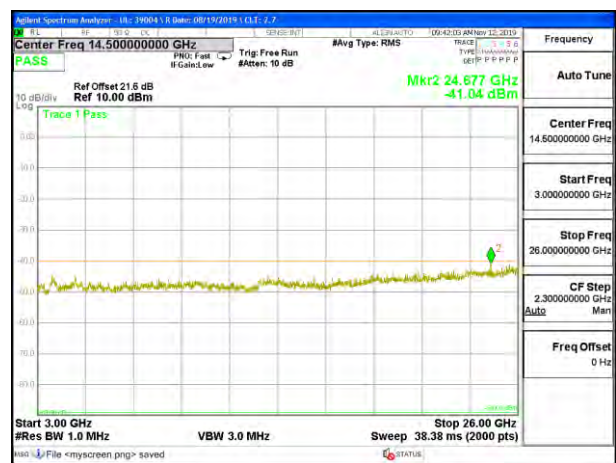

LTE B26 1.4MHz 16QAM High Channel RB1-0

LTE B26 3MHz QPSK Low Channel RB1-0

LTE B26 3MHz 16QAM Low Channel RB1-0

LTE B26 3MHz QPSK Middle Channel RB1-0

LTE B26 3MHz 16QAM Middle Channel RB1-0

LTE B26 3MHz QPSK High Channel RB1-0

LTE B26 3MHz 16QAM High Channel RB1-0

LTE B26 5MHz QPSK Low Channel RB1-0

LTE B26 5MHz 16QAM Low Channel RB1-0

LTE B26 5MHz QPSK Middle Channel RB1-0

LTE B26 5MHz 16QAM Middle Channel RB1-0

LTE B26 5MHz QPSK High Channel RB1-0

LTE B26 5MHz 16QAM High Channel RB1-0

LTE B26 10MHz QPSK Middle Channel RB1-0

LTE B26 10MHz 16QAM Middle Channel RB1-0

8.3.9. LTE BAND 30
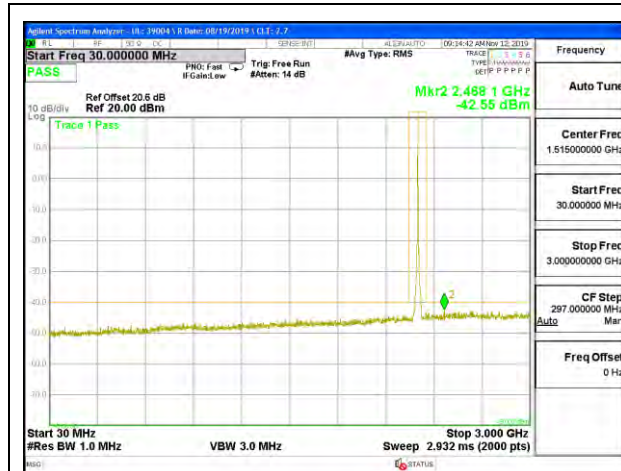
LTE B30 5MHz QPSK Low Channel RB1-0 (30MHz to 3GHz)
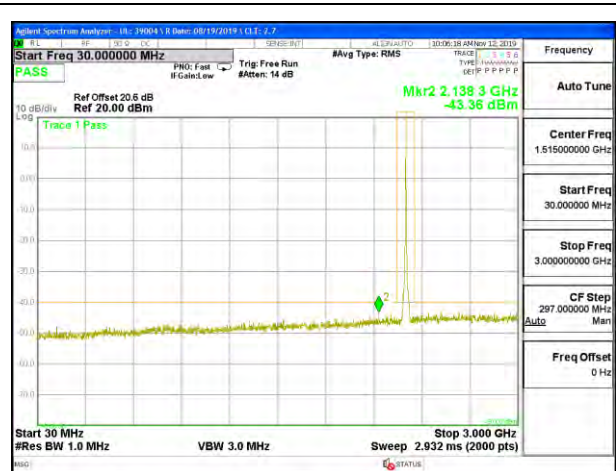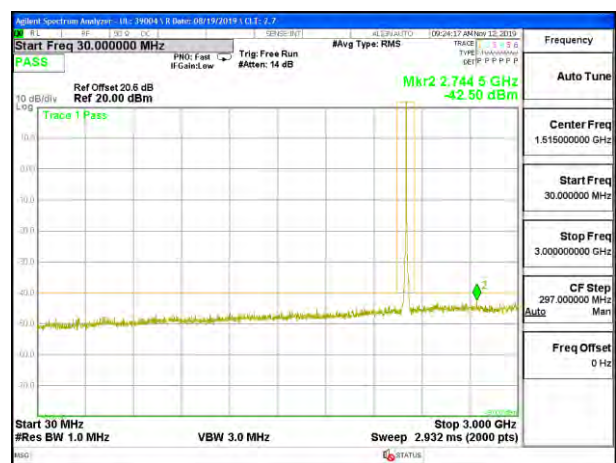

LTE B30 5MHz 16QAM Low Channel RB1-0 (30MHz to 3GHz)
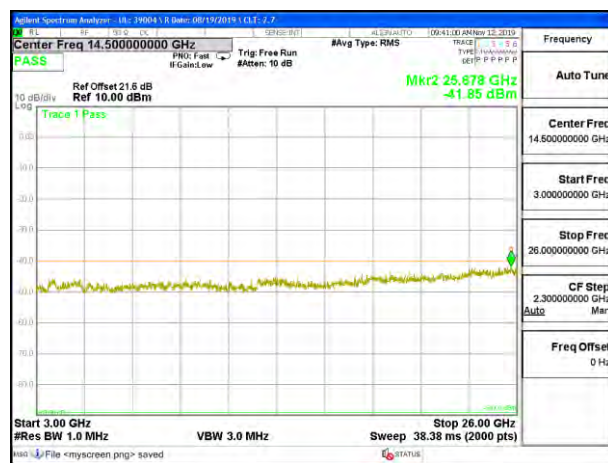
LTE B30 5MHz QPSK Low Channel RB1-0 (3G to 26G)

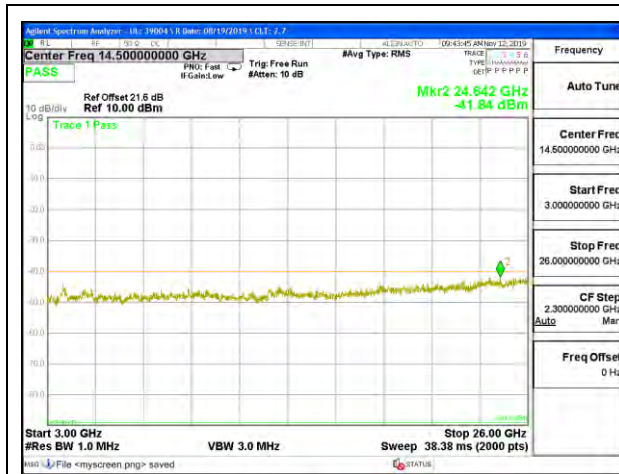LTE B30 5MHz 16QAM Low Channel RB1-0 (3G to 26G)
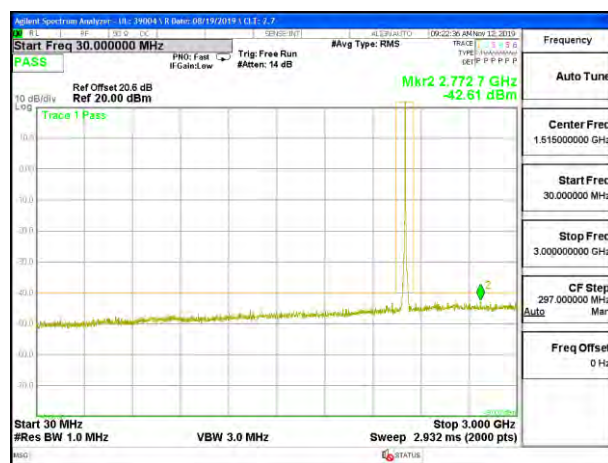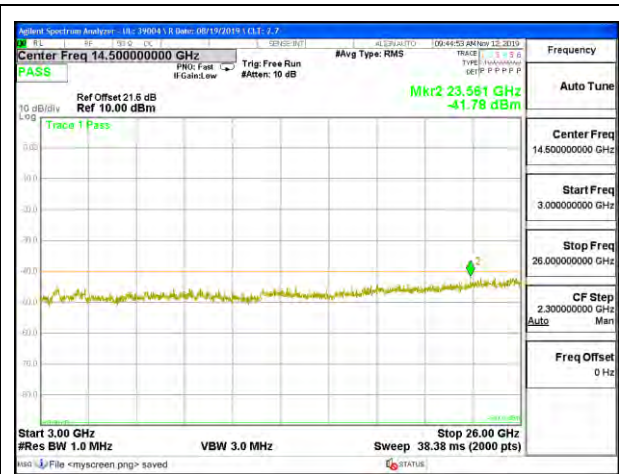

LTE B30 5MHz QPSK Mid Channel RB1-0 (30MHz to 3GHz)
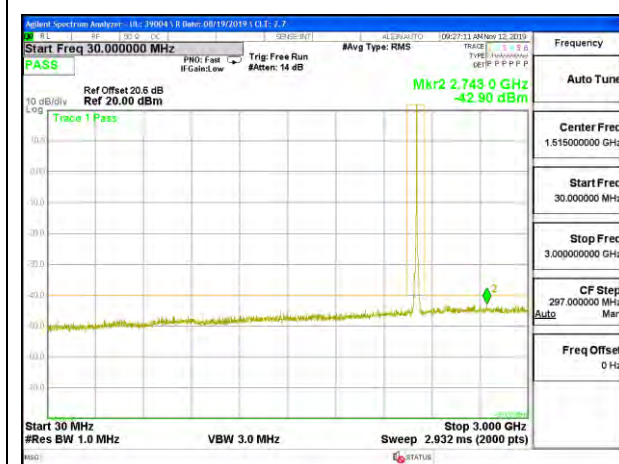

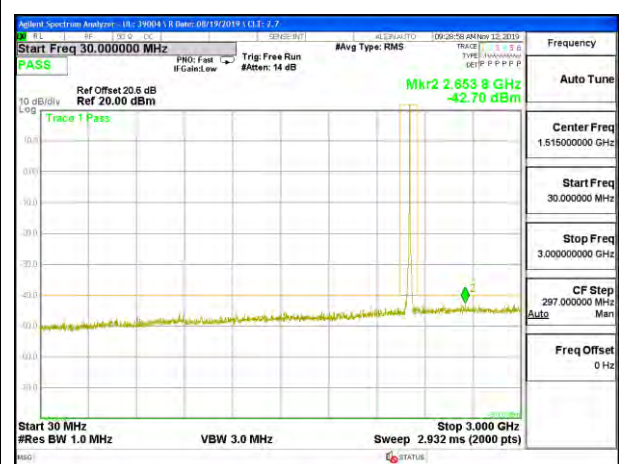LTE B30 5MHz 16QAM Mid Channel RB1-0 (30MHz to 3GHz)

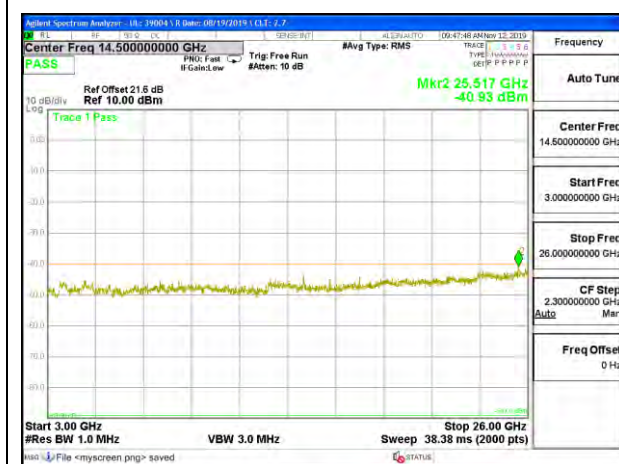LTE B30 5MHz QPSK Middle Channel RB1-0 (3G to 26G)

LTE B30 5MHz 16QAM Middle Channel RB1-0 (3G to 26G)
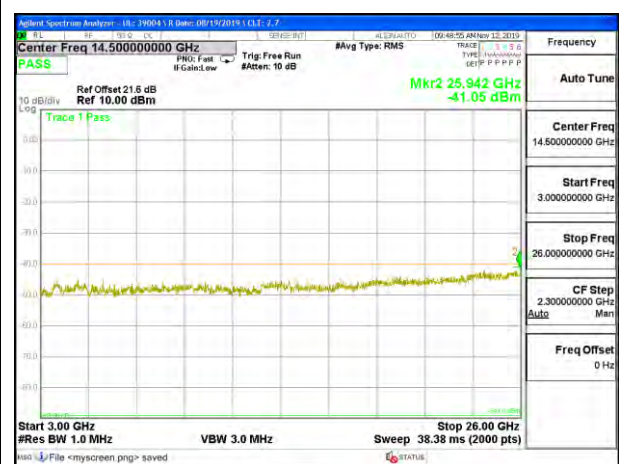

LTE B30 5MHz QPSK High Channel RB1-0 (30MHz to 3GHz)

LTE B30 5MHz 16QAM High Channel RB1-0 (30MHz to 3GHz)

LTE B30 5MHz QPSK High Channel RB1-0 (3G to 26G)

LTE B30 5MHz 16QAM High Channel RB1-0 (3G to 26G)