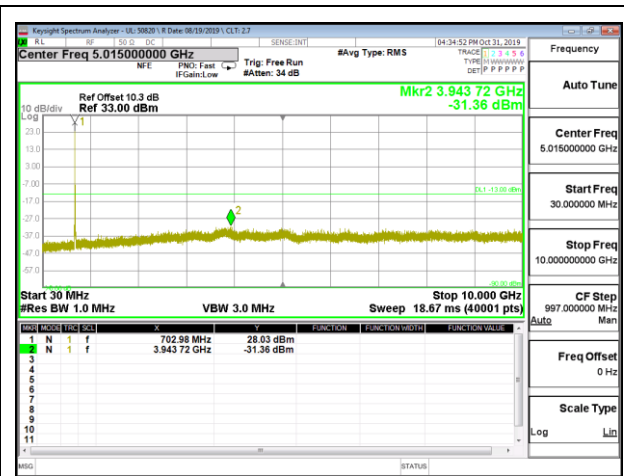
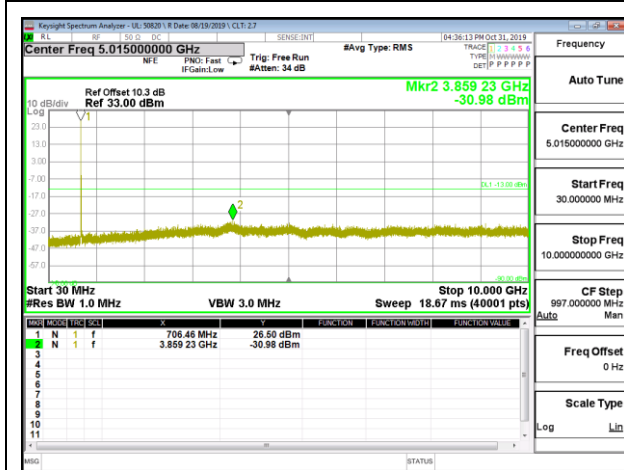


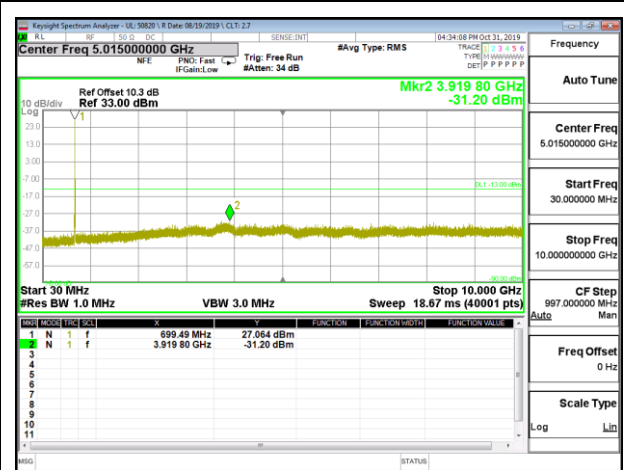
LTE B12 10MHz QPSK Low Channel RB1-0



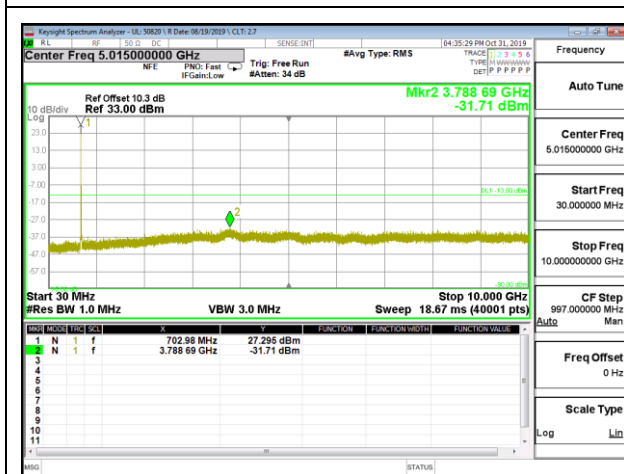
LTE B12 10MHz QPSK Mid Channel RB1-0



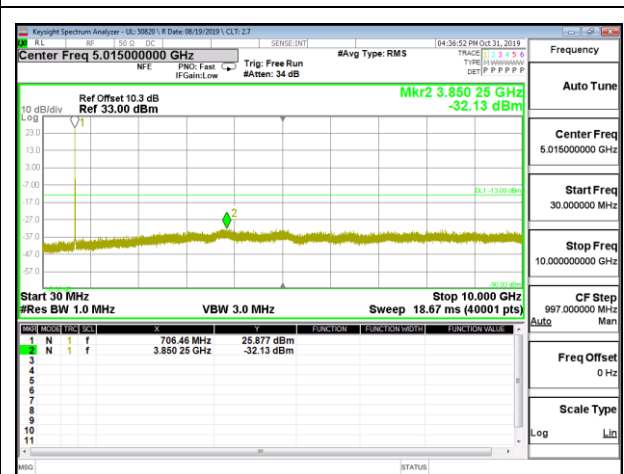
LTE B12 10MHz QPSK High Channel RB1-0



LTE B12 10MHz 16QAM Low Channel RB1-0

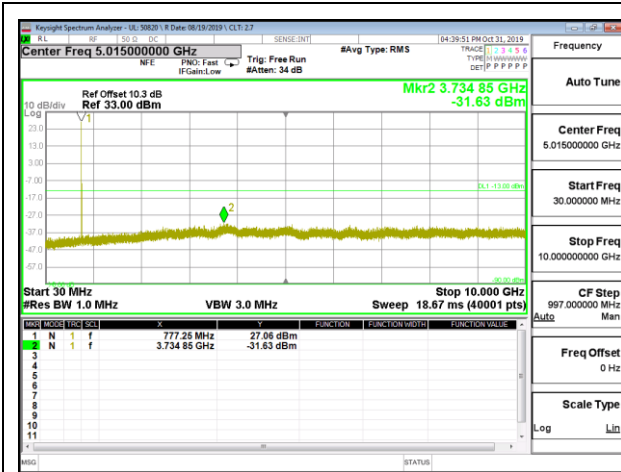


LTE B12 10MHz 16QAM Mid Channel RB1-0

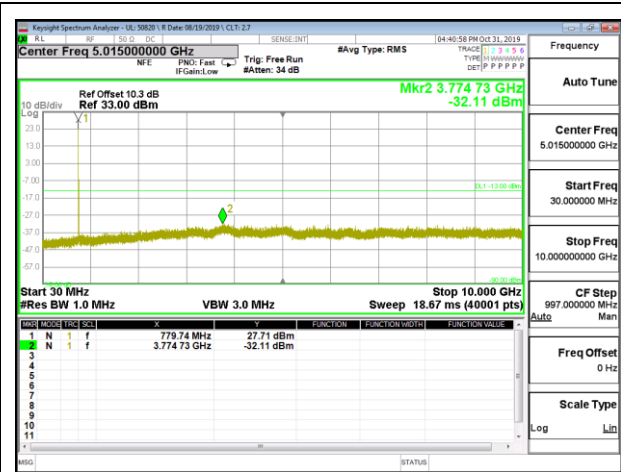


LTE B12 10MHz 16QAM High Channel RB1-0

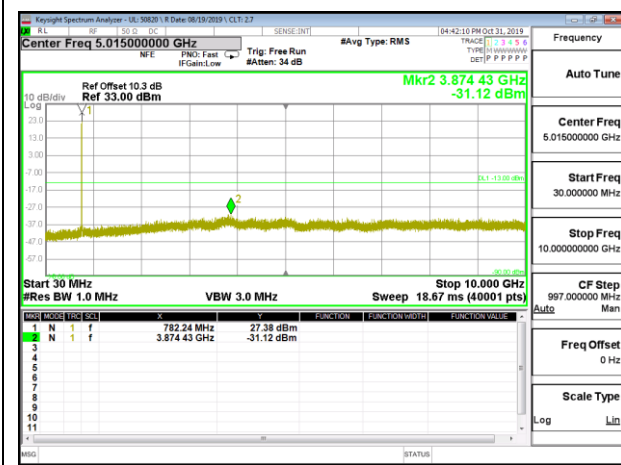
8.3.10. LTE BAND 13



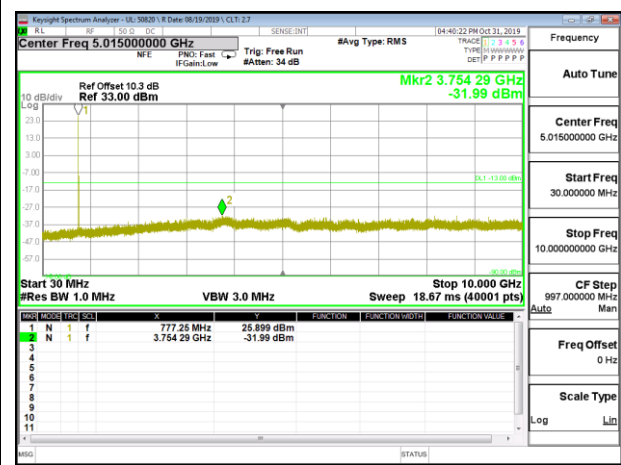
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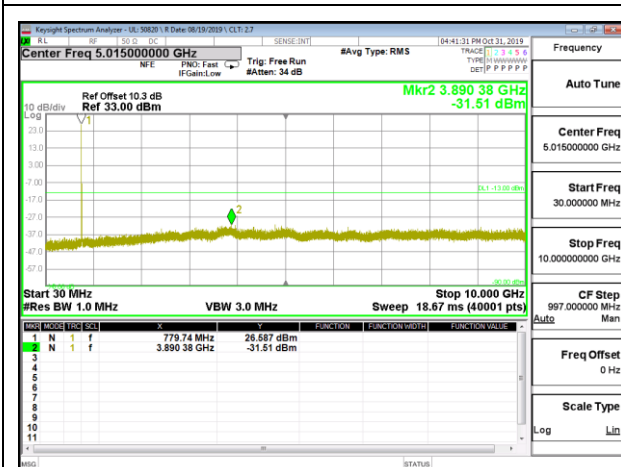
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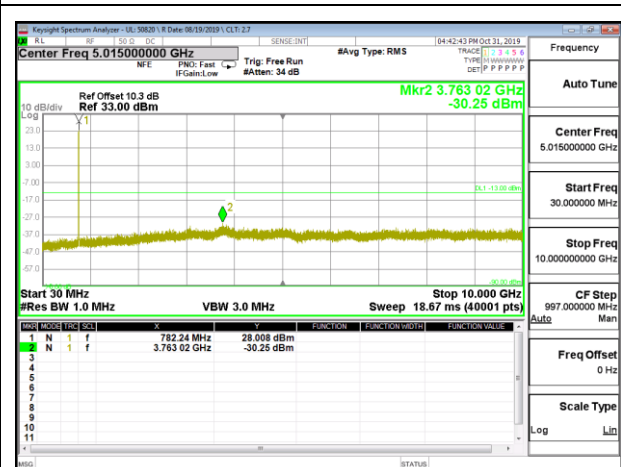
LTE B13 5MHz QPSK High Channel RB1-0



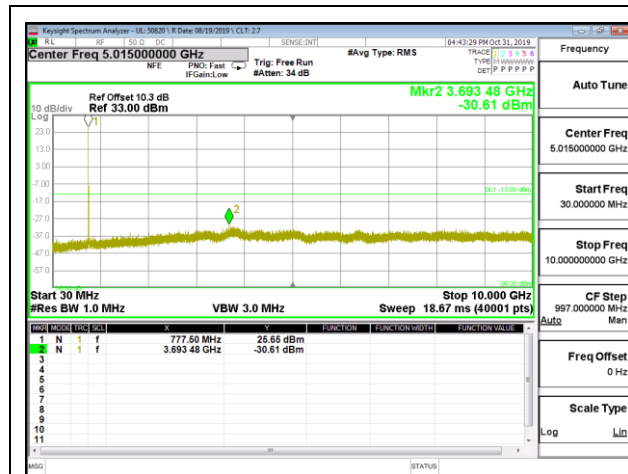
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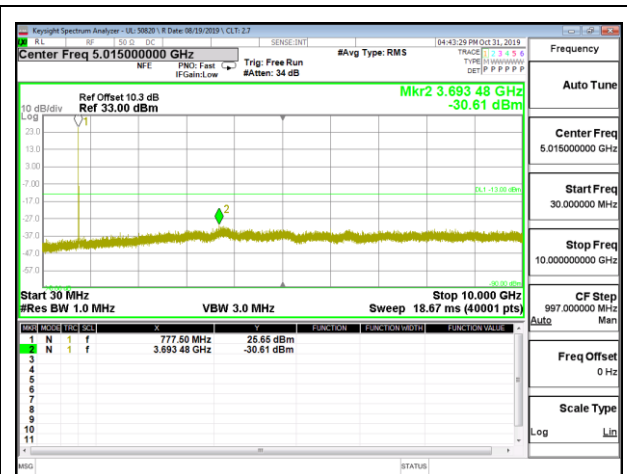
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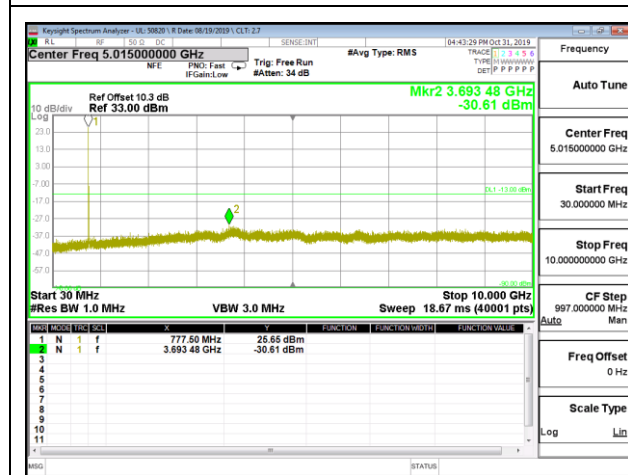
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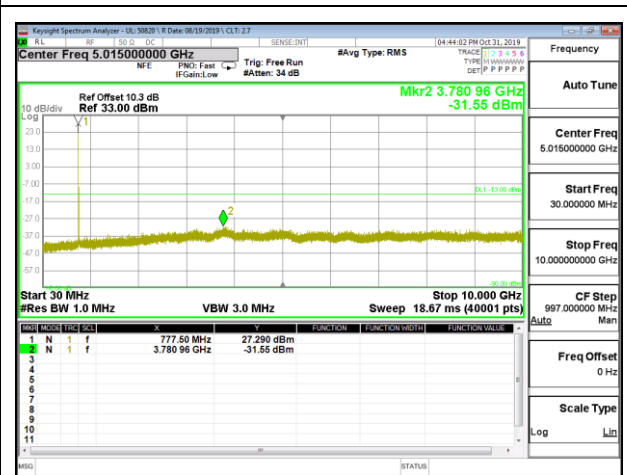
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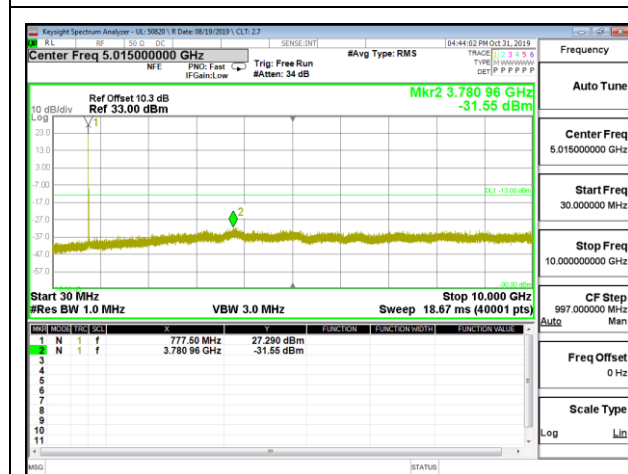
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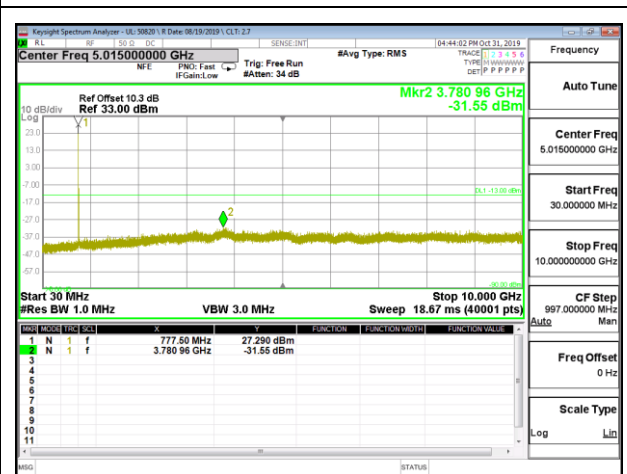
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LTE B13 10MHz 16QAM Low Channel RB1-0



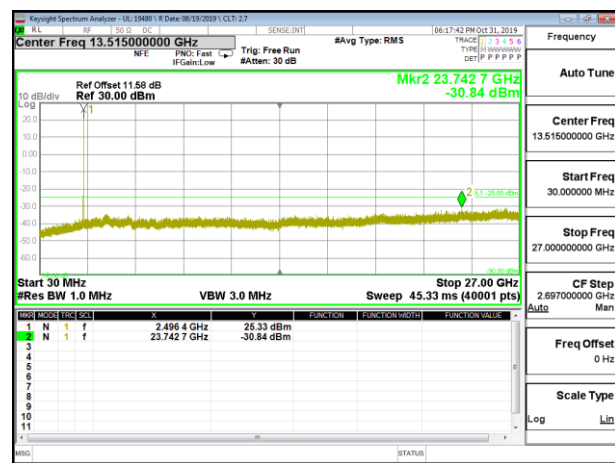
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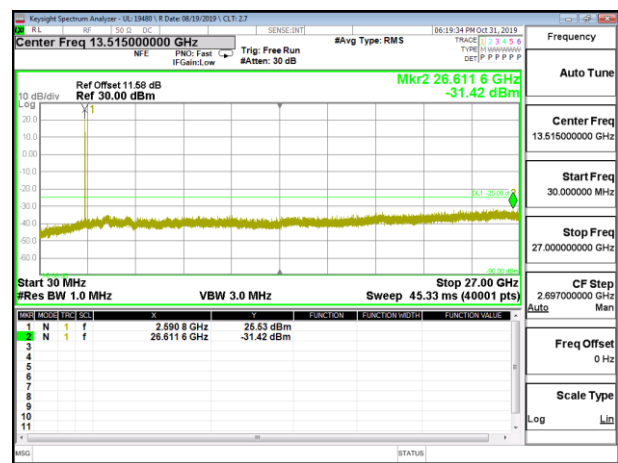
LTE B13 10MHz 16QAM High Channel RB1-0

Note: Radiated data in section 9.2.7 confirms a compliance with narrowband limits for GPS1559-1610 MHz band.

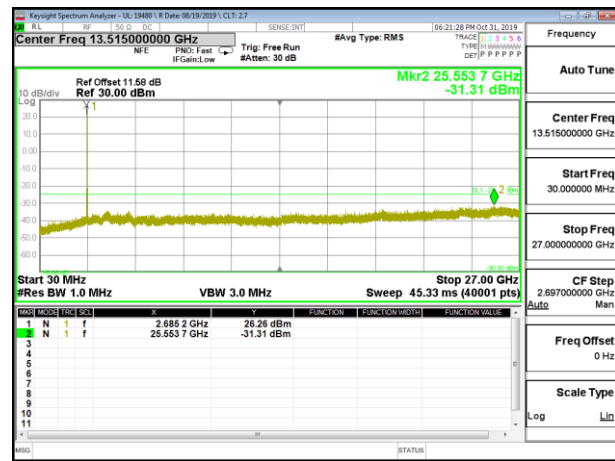
8.3.11. LTE BAND 41 (FCC)



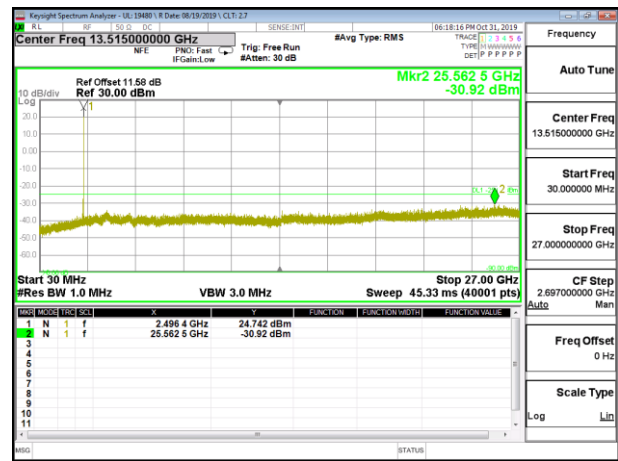
LTE B41 5MHz QPSK Low Channel RB1-0



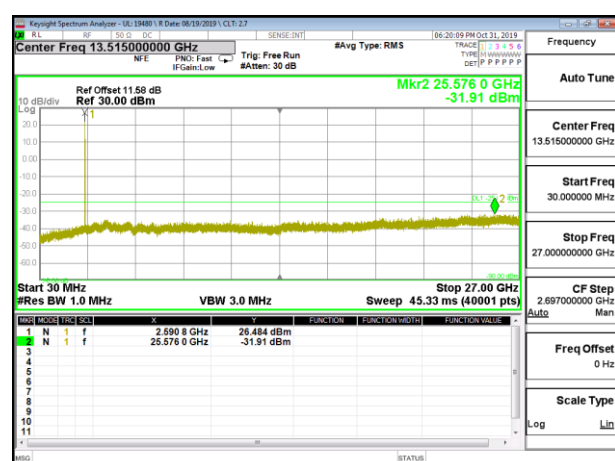
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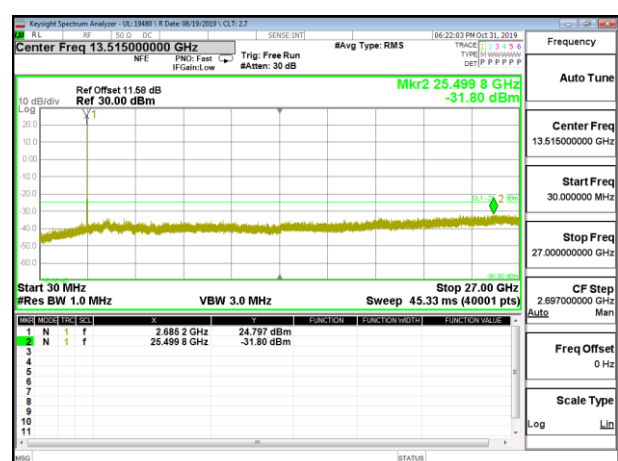
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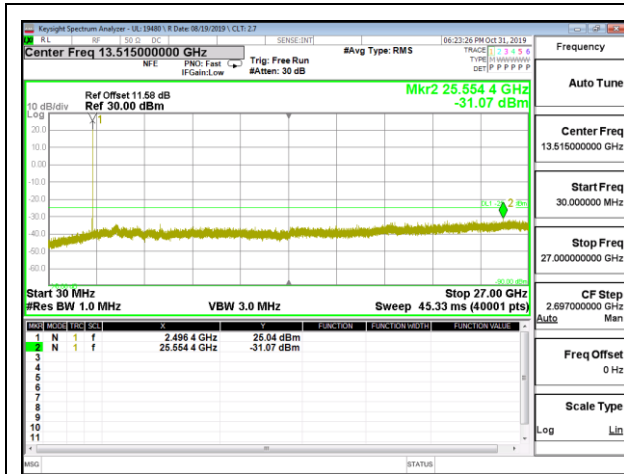
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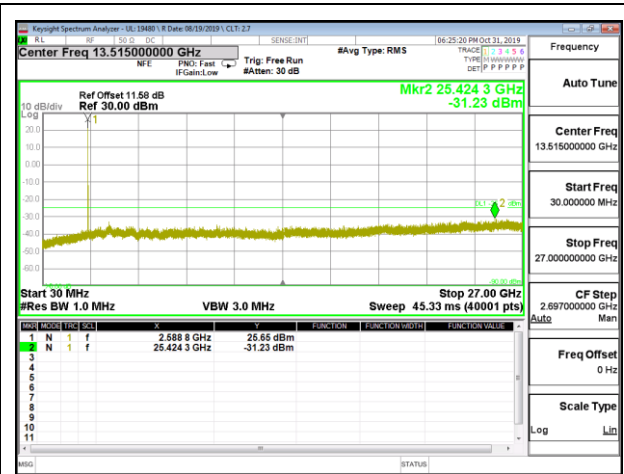
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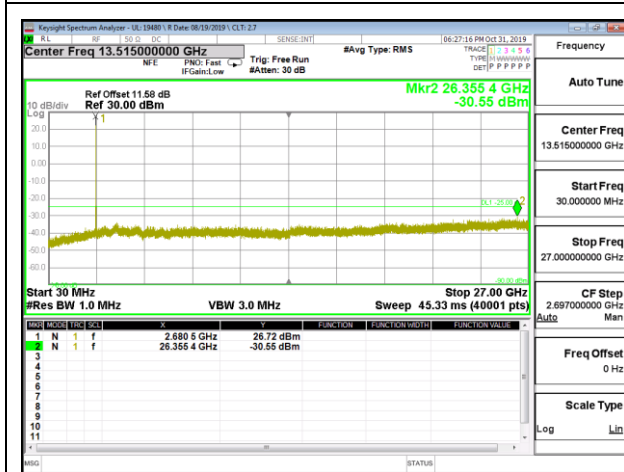
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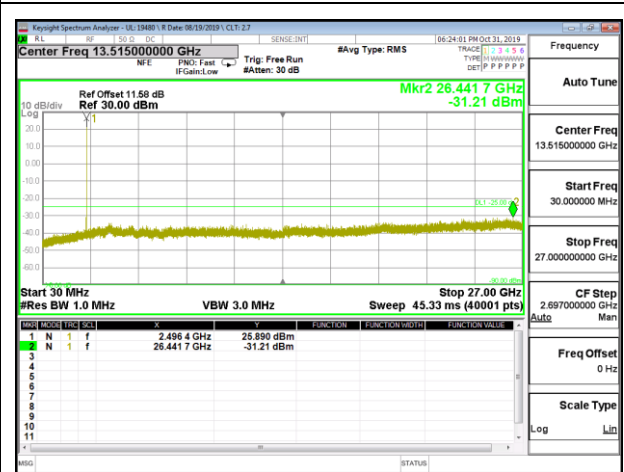
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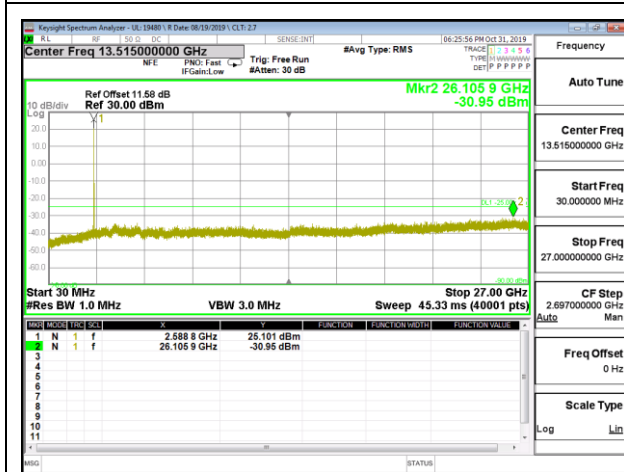
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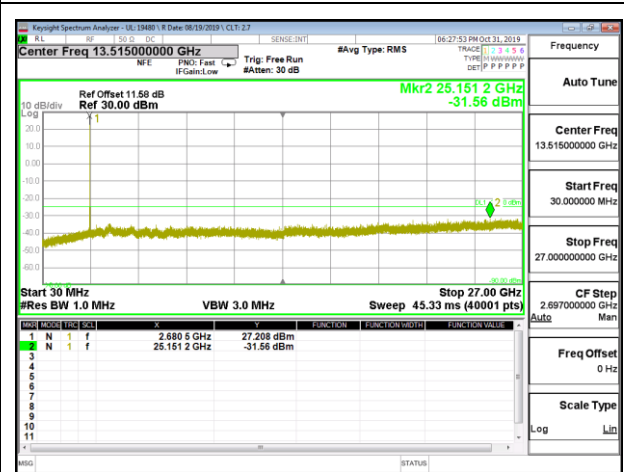
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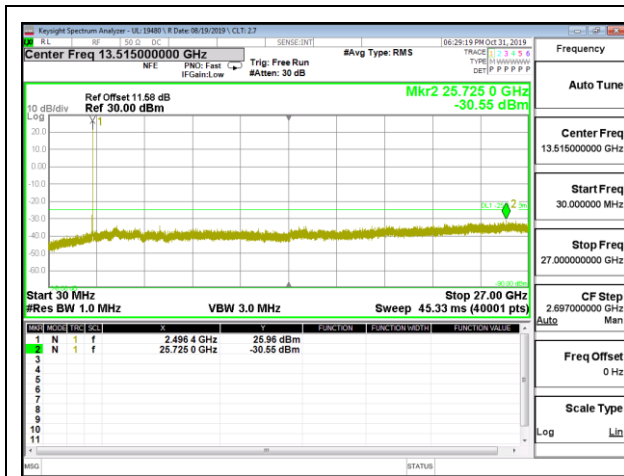
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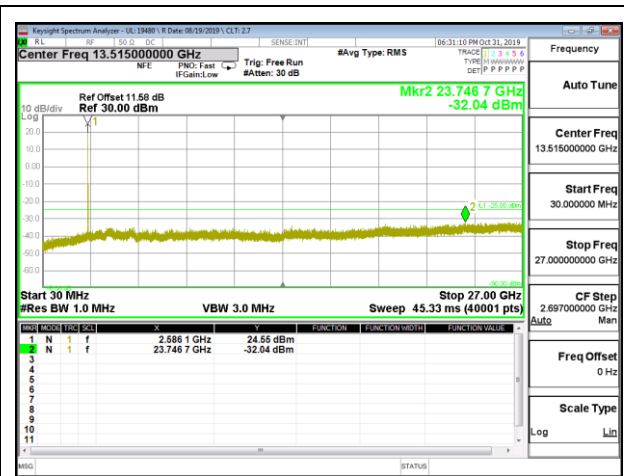
LTE B41 10MHz 16QAM Mid Channel RB1-0



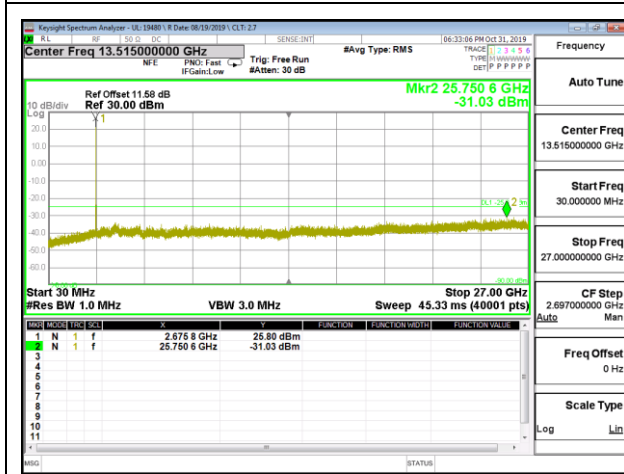
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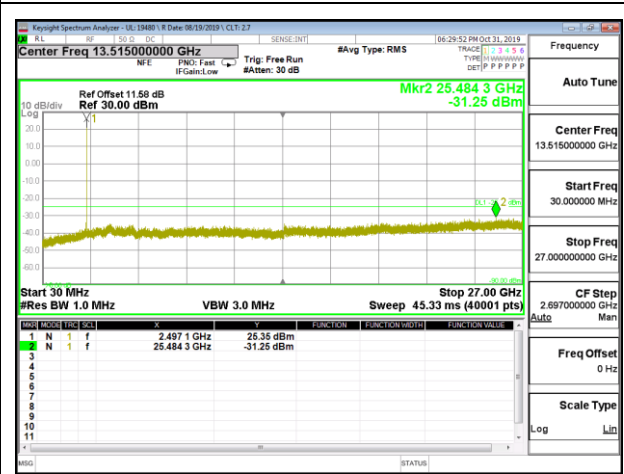
LTE B41 15MHz QPSK Low Channel RB1-0



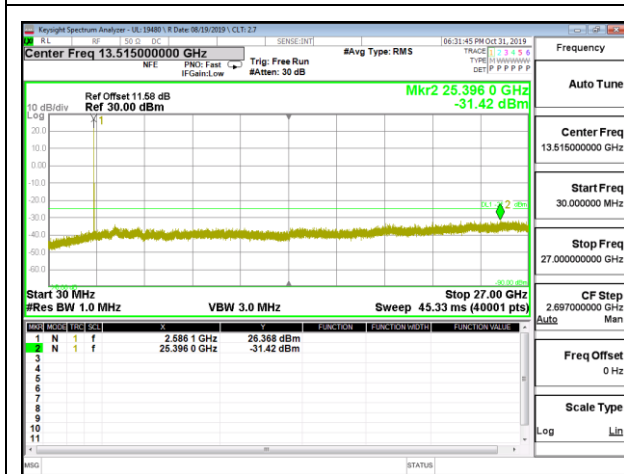
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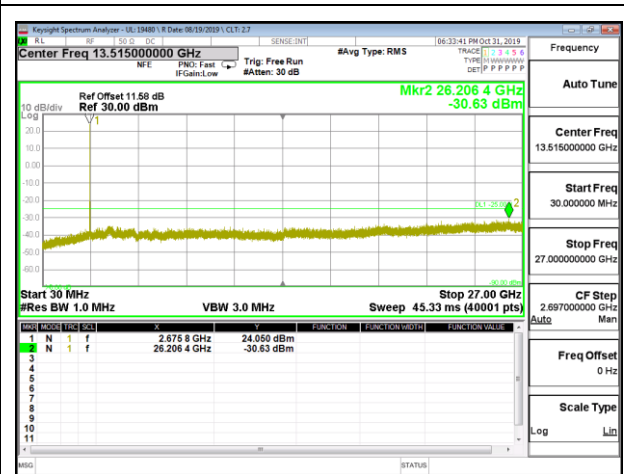
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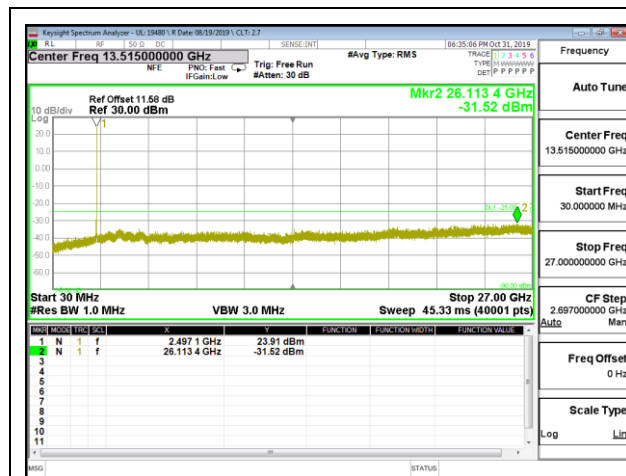
LTE B41 15MHz 16QAM Low Channel RB1-0



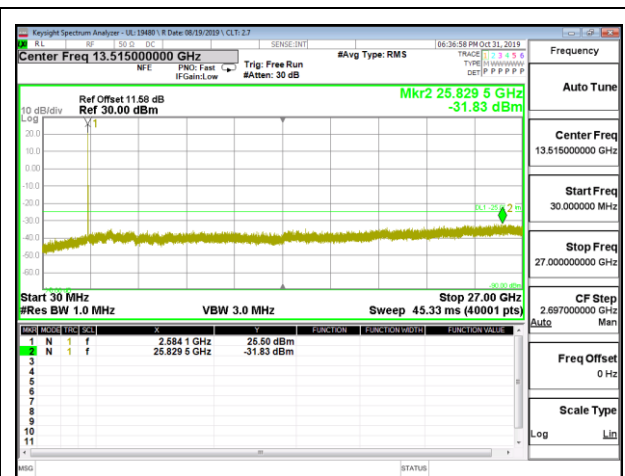
LTE B41 15MHz 16QAM Mid Channel RB1-0



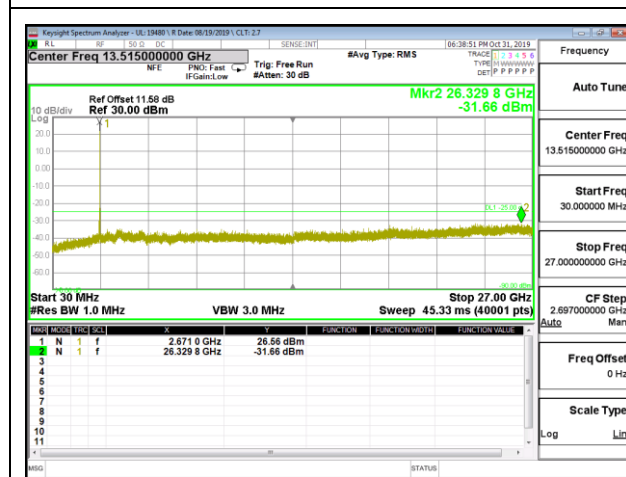
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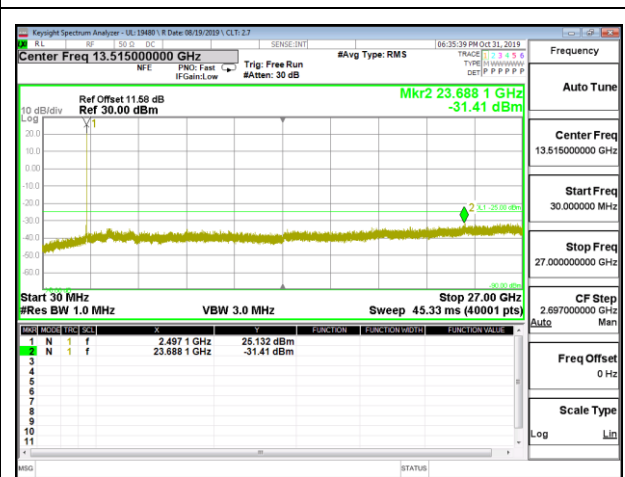
LTE B41 20MHz QPSK Low Channel RB1-0



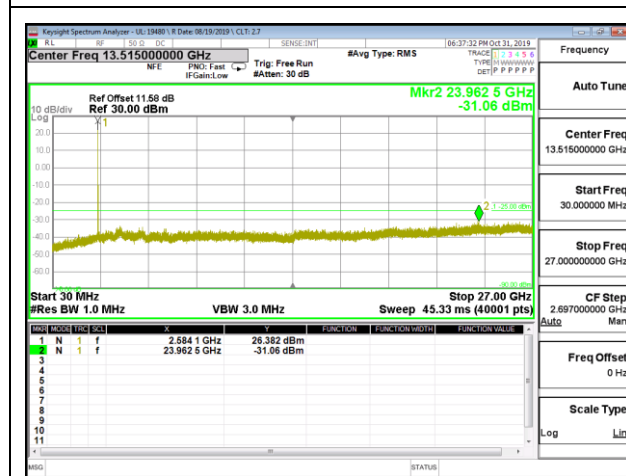
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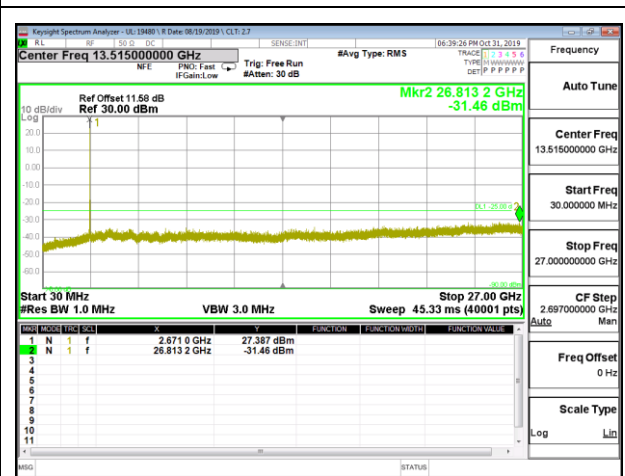
LTE B41 20MHz QPSK High Channel RB1-0



LTE B41 20MHz 16QAM Low Channel RB1-0

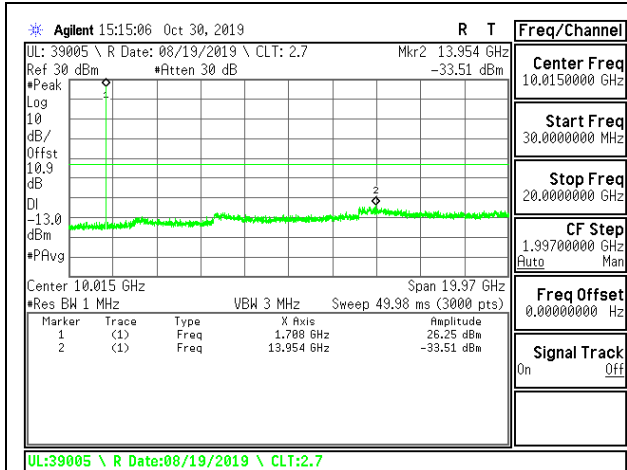


LTE B41 20MHz 16QAM Mid Channel RB1-0

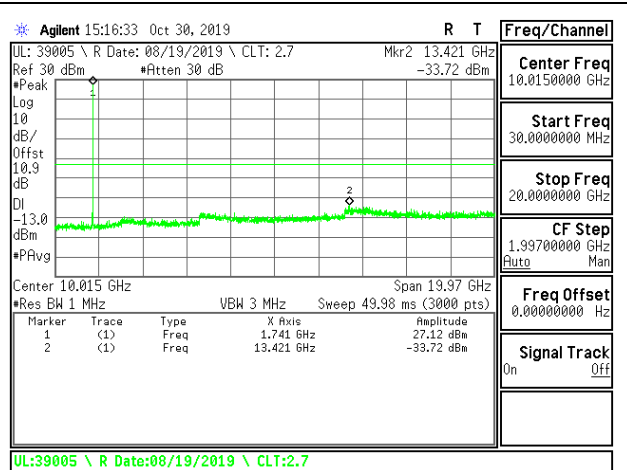


LTE B41 20MHz 16QAM High Channel RB1-0

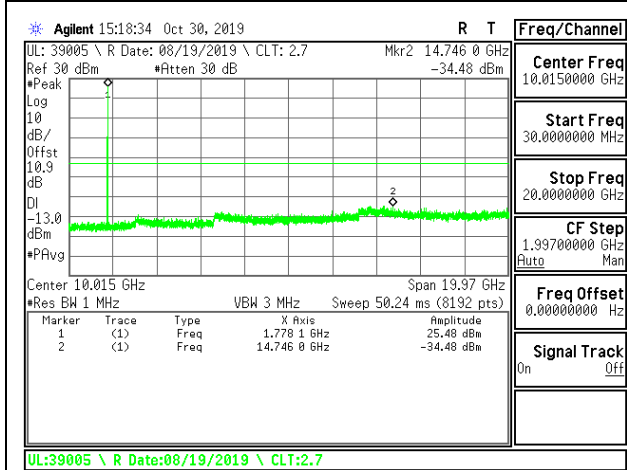
8.3.12. LTE BAND 66



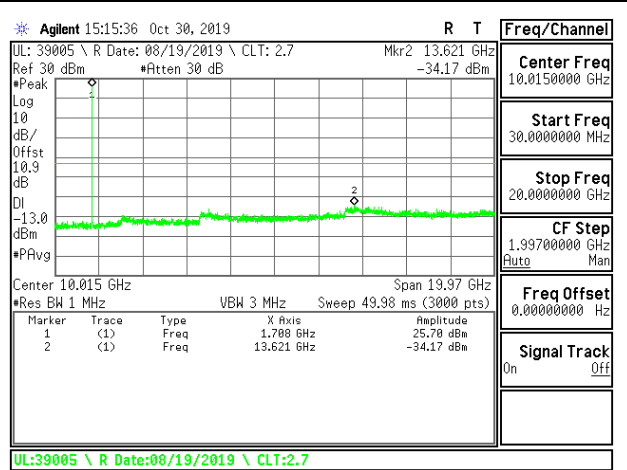
LTE B66 1.4MHz QPSK Low Channel RB1-0



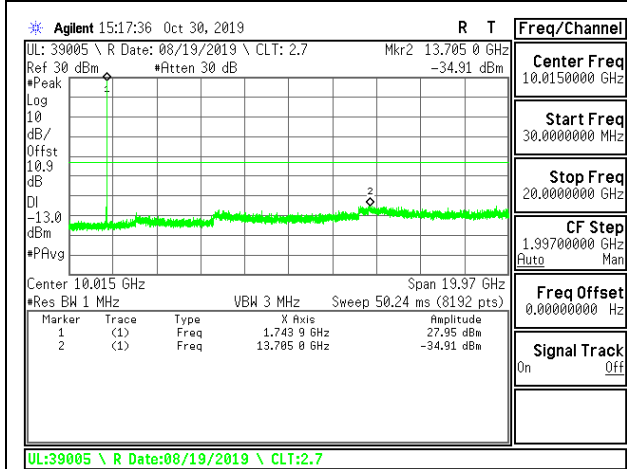
LTE B66 1.4MHz QPSK Mid Channel RB1-0



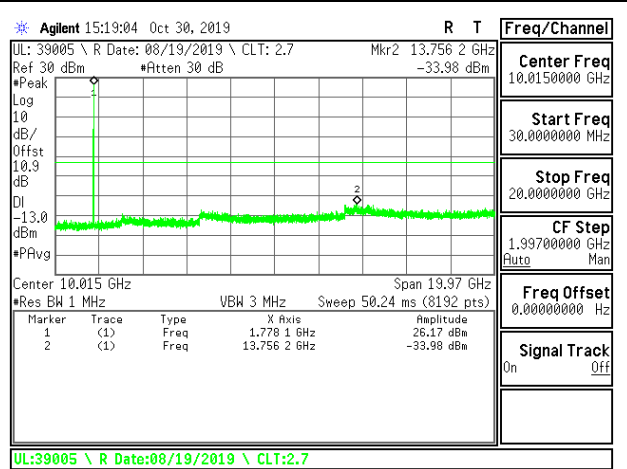
LTE B66 1.4MHz QPSK High Channel RB1-0



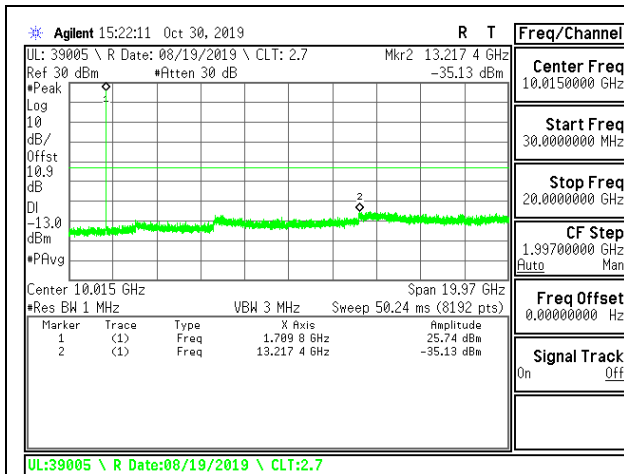
LTE B66 1.4MHz 16QAM Low Channel RB1-0



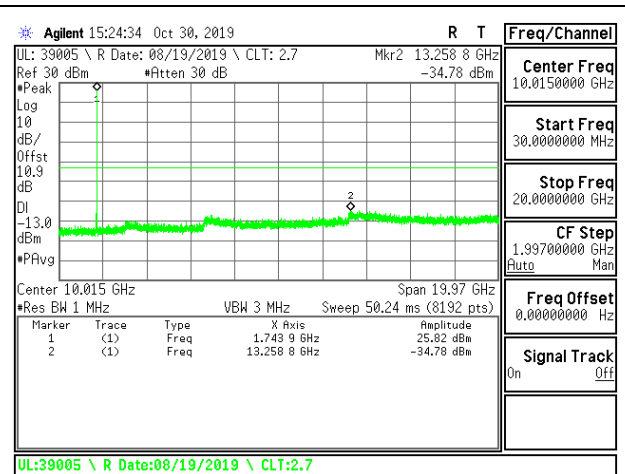
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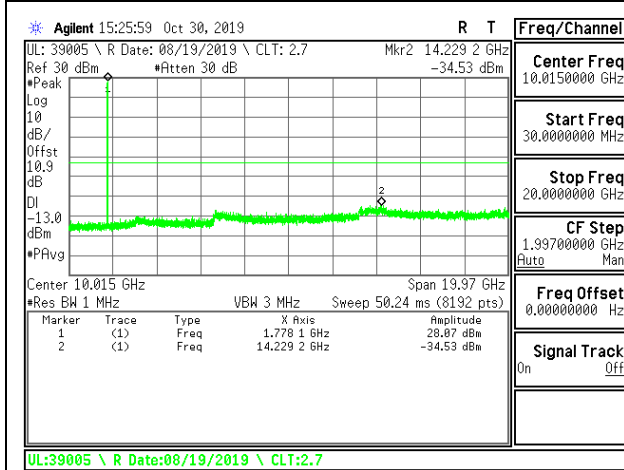
LTE B66 1.4MHz 16QAM High Channel RB1-0



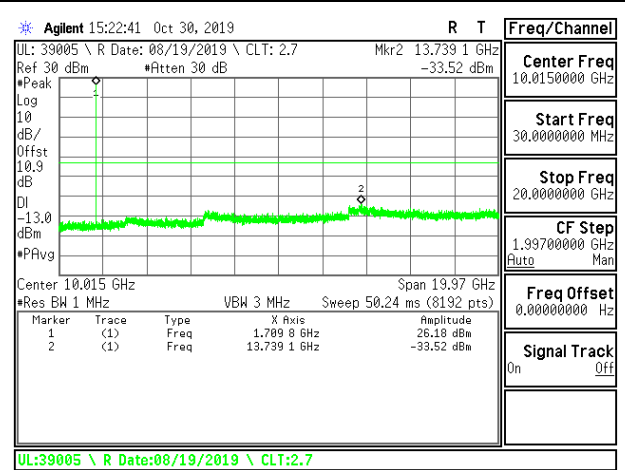
LTE B66 3MHz QPSK Low Channel RB1-0



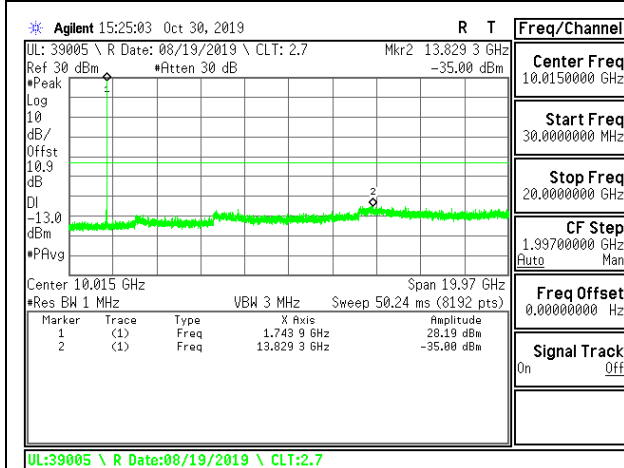
LTE B66 3MHz QPSK Mid Channel RB1-0



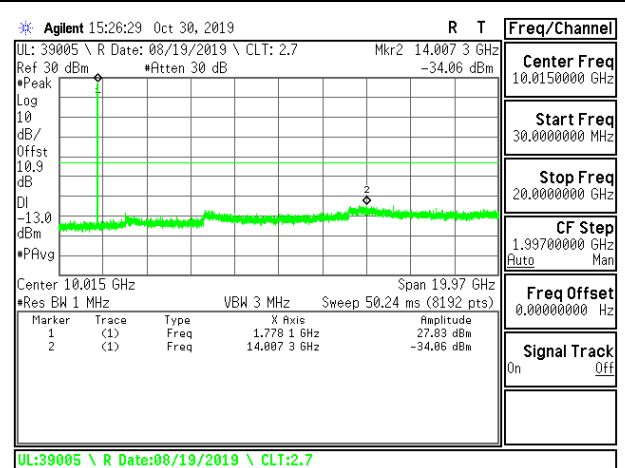
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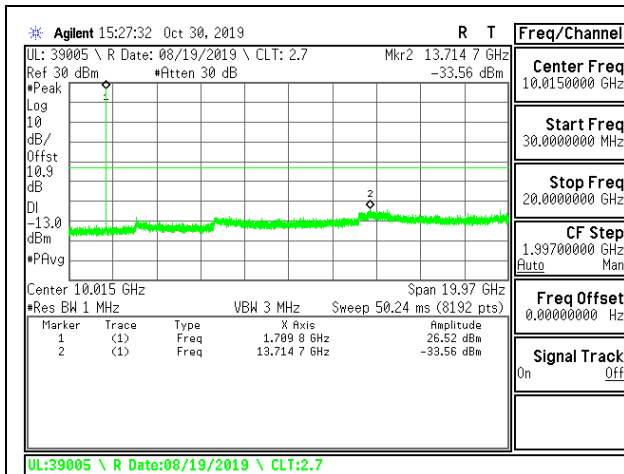
LTE B66 3MHz 16QAM Low Channel RB1-0



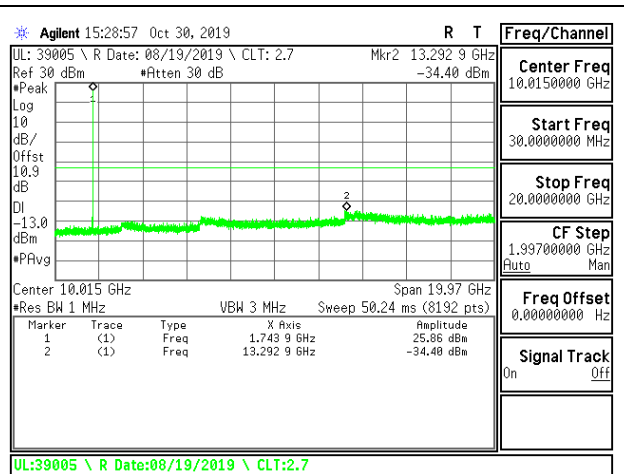
LTE B66 3MHz 16QAM Mid Channel RB1-0



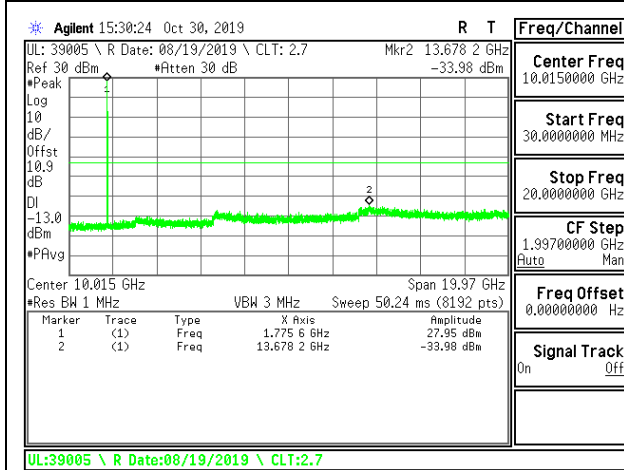
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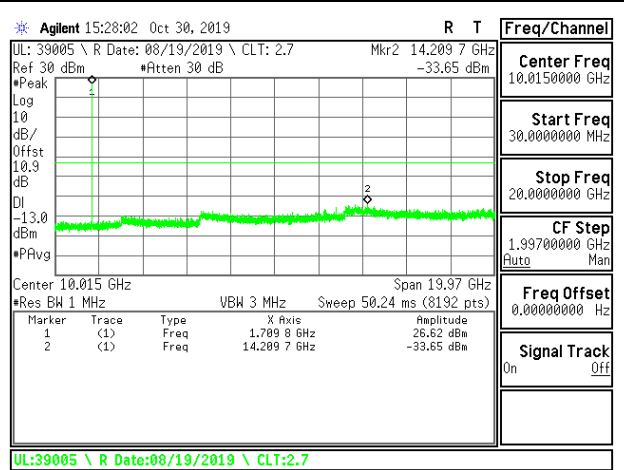
LTE B66 5MHz QPSK Low Channel RB1-0



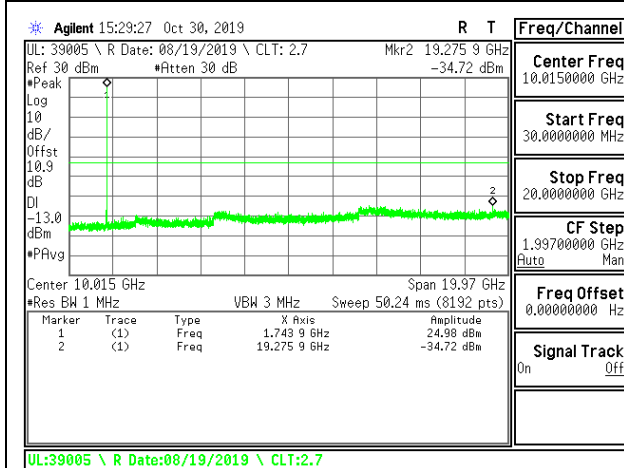
LTE B66 5MHz QPSK Mid Channel RB1-0



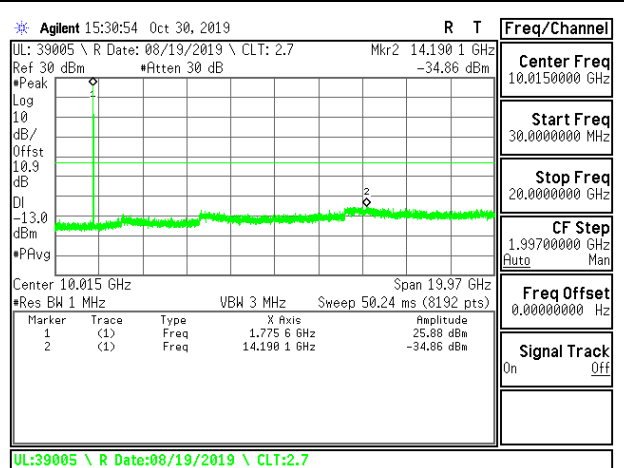
LTE B66 5MHz QPSK High Channel RB1-0



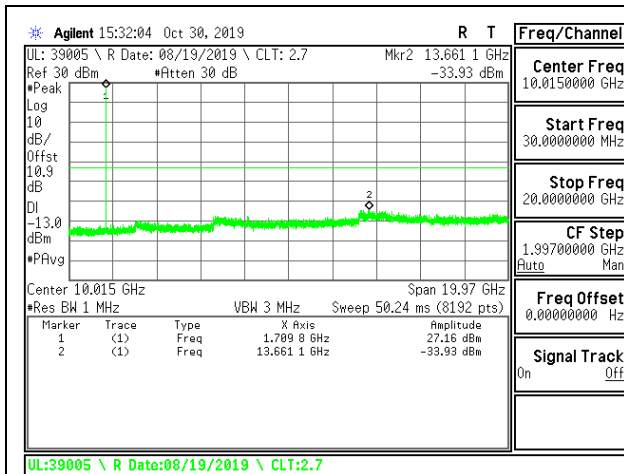
LTE B66 5MHz 16QAM Low Channel RB1-0



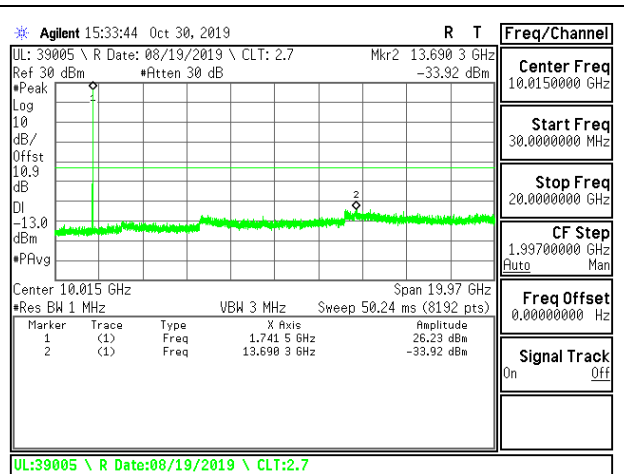
LTE B66 5MHz 16QAM Mid Channel RB1-0



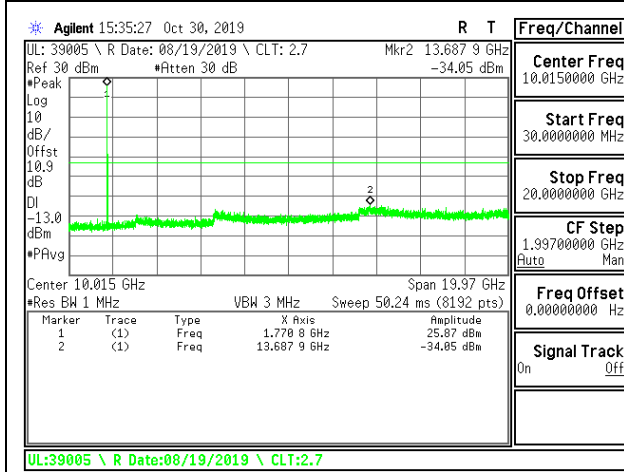
LTE B66 5MHz 16QAM High Channel RB1-0



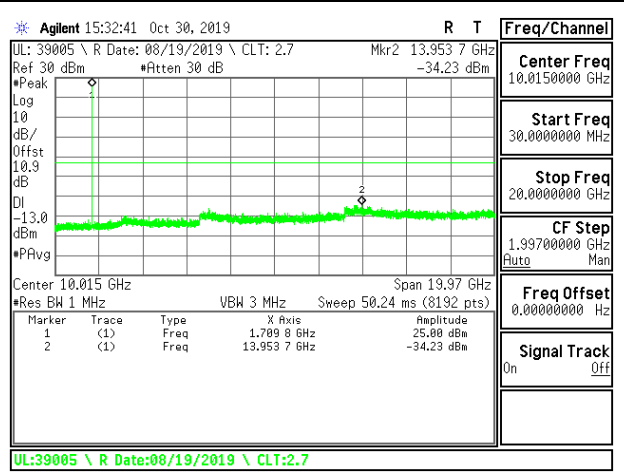
LTE B66 10MHz QPSK Low Channel RB1-0



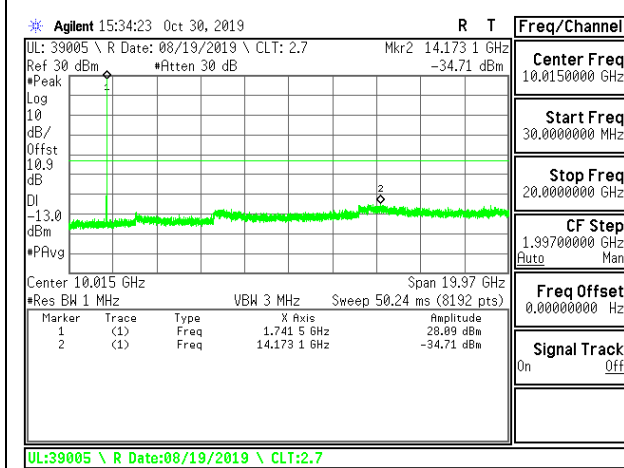
LTE B66 10MHz QPSK Mid Channel RB1-0



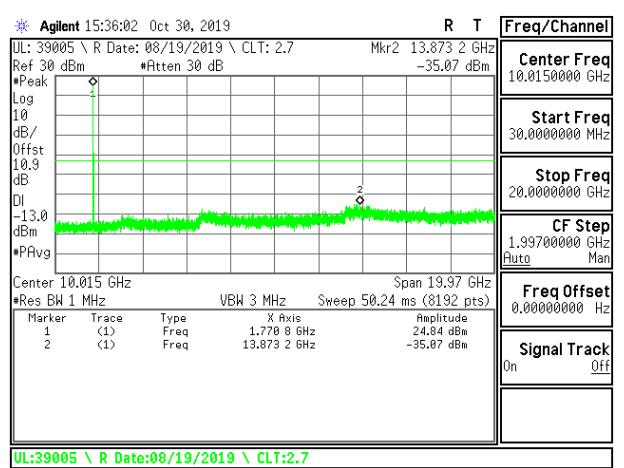
LTE B66 10MHz QPSK High Channel RB1-0



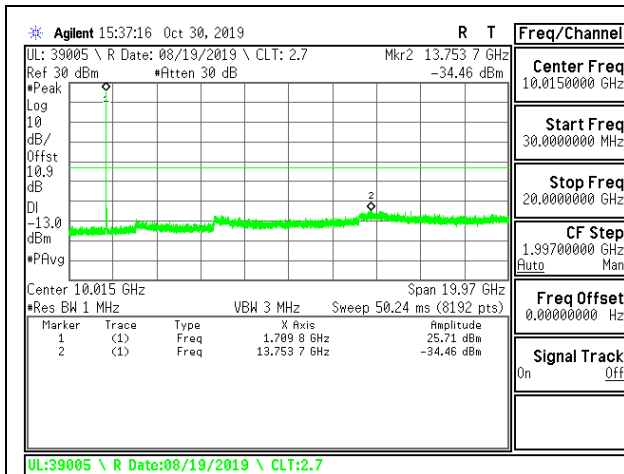
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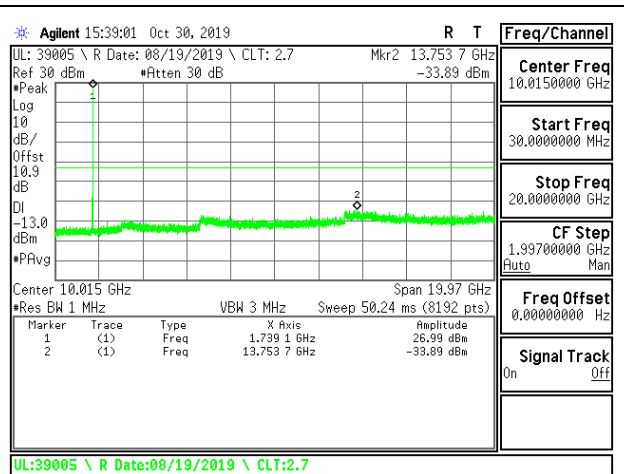
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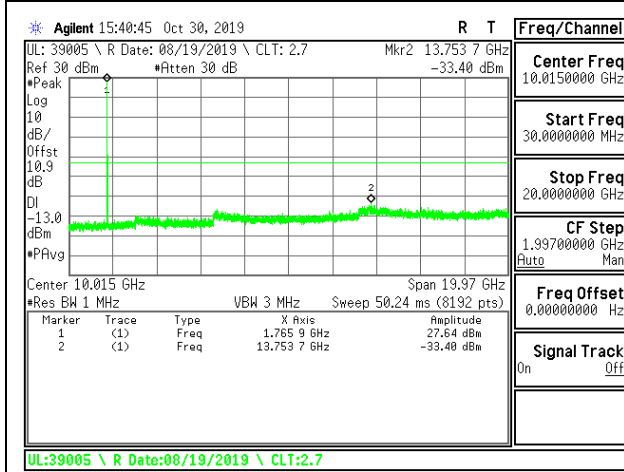
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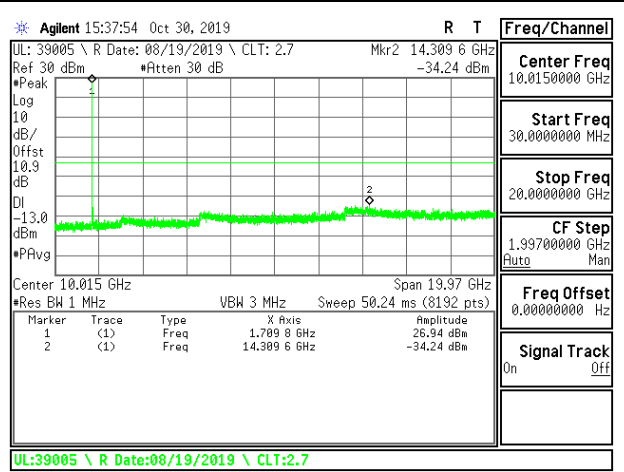
LTE B66 15MHz QPSK Low Channel RB1-0



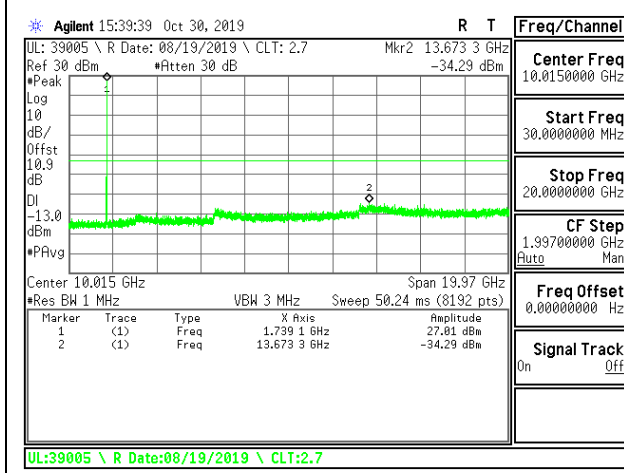
LTE B66 15MHz QPSK Mid Channel RB1-0



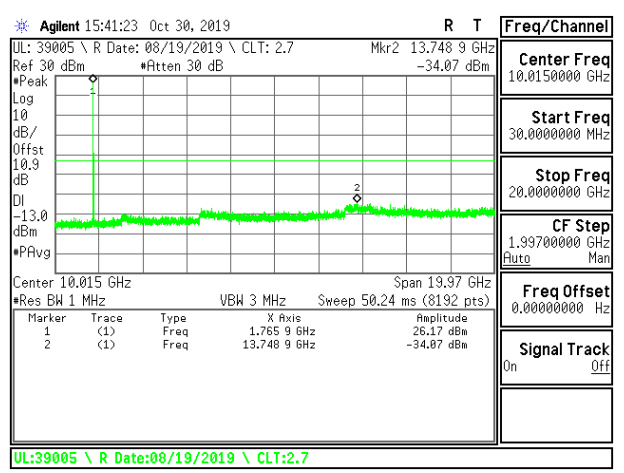
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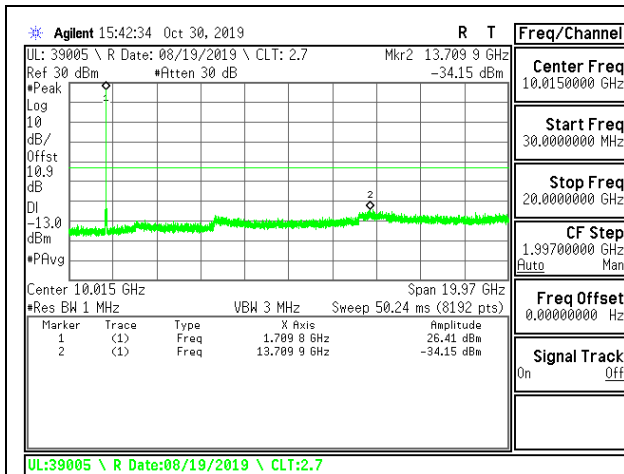
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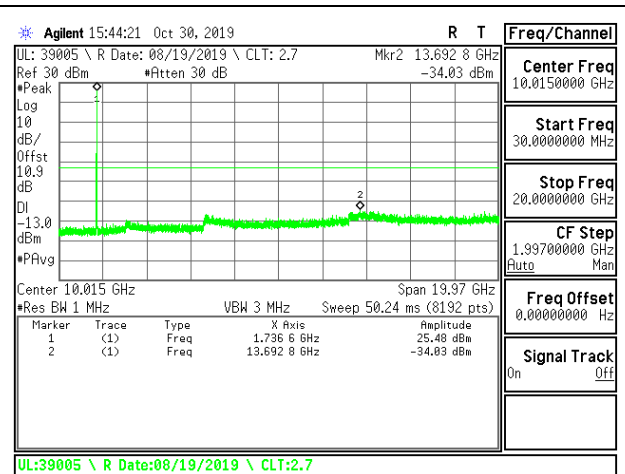
LTE B66 15MHz 16QAM Mid Channel RB1-0



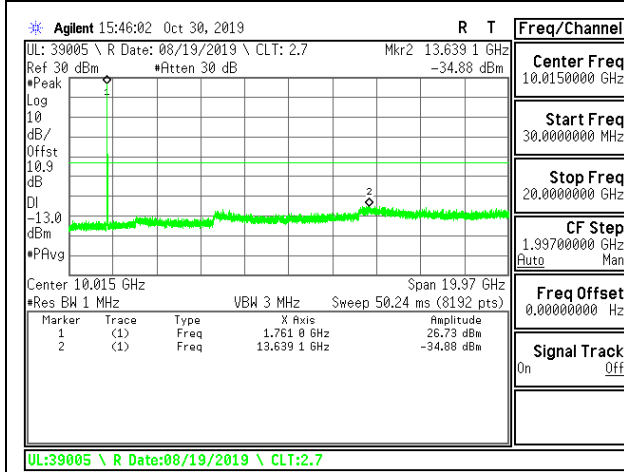
LTE B66 15MHz 16QAM High Channel RB1-0



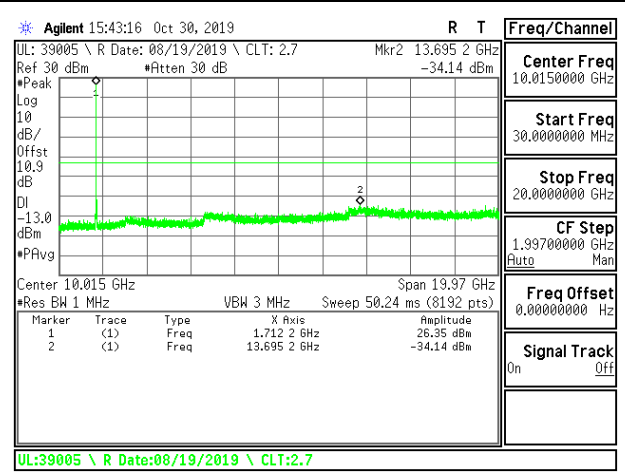
LTE B66 20MHz QPSK Low Channel RB1-0



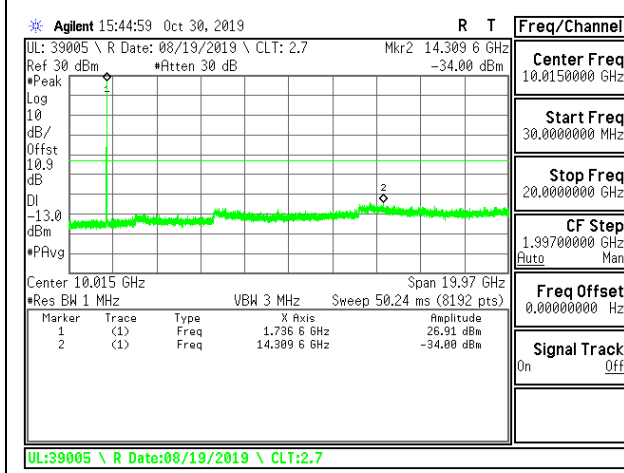
LTE B66 20MHz QPSK Mid Channel RB1-0



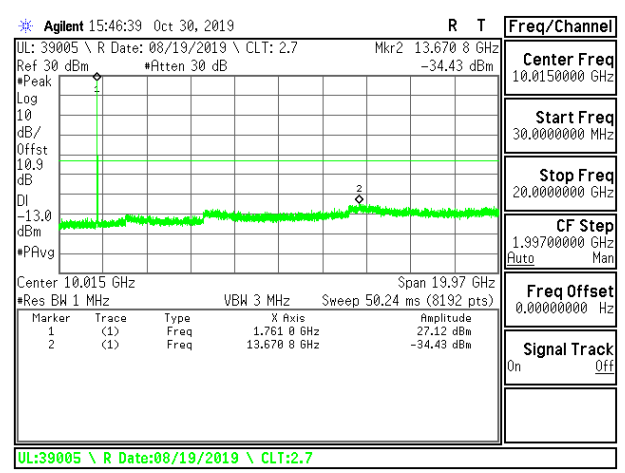
LTE B66 20MHz QPSK High Channel RB1-0



LTE B66 20MHz 16QAM Low Channel RB1-0



LTE B66 20MHz 16QAM Mid Channel RB1-0



LTE B66 20MHz 16QAM High Channel RB1-0

## **8.4. FREQUENCY STABILITY**

### **RULE PART(S)**

FCC: §2.1055, §22.355, §24.235 and §27.54

### **LIMITS**

FCC §22.355

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

FCC §24.235 & §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### **TEST PROCEDURE**

Use CMW 500 with Frequency Error measurement capability.

- Temp. =  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.

End Voltage, 2.8VDC.

### **Frequency Stability vs Temperature:**

The EUT is placed inside a temperature chamber. The temperature is set to  $20^{\circ}\text{C}$  and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until  $+50^{\circ}\text{C}$  is reached.

### **Frequency Stability vs Voltage:**

The peak frequency error is recorded (worst-case).

### **RESULTS**

See the following pages.

8.4.1. **GSM**

<b>ID:</b>	50820	<b>Date:</b>	11/6/19
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**GPRS 850MHz**

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.0408	848.9552		
Extreme (50C)		824.0408	848.9553	21.2	0.025
Extreme (40C)		824.0408	848.9553	19.5	0.023
Extreme (30C)		824.0408	848.9553	19.7	0.024
Extreme (10C)		824.0408	848.9553	18.3	0.022
Extreme (0C)		824.0408	848.9553	20.1	0.024
Extreme (-10C)		824.0408	848.9553	25.3	0.030
Extreme (-20C)		824.0408	848.9553	28.3	0.034
Extreme (-30C)		824.0408	848.9553	26.3	0.031
20C		15%	824.0408	848.9553	19.4
	-15%	824.0408	848.9553	19.3	0.023
	End Point	824.0408	848.9553	18.4	0.022

**GPRS 1900MHz**

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.0491	1909.9579		
Extreme (50C)		1850.0491	1909.9579	-19.8	-0.011
Extreme (40C)		1850.0491	1909.9579	-18.7	-0.010
Extreme (30C)		1850.0491	1909.9579	-19.2	-0.010
Extreme (10C)		1850.0491	1909.9579	-19.1	-0.010
Extreme (0C)		1850.0491	1909.9579	-17.6	-0.009
Extreme (-10C)		1850.0491	1909.9579	-16.4	-0.009
Extreme (-20C)		1850.0491	1909.9579	-14.7	-0.008
Extreme (-30C)		1850.0491	1909.9579	-15.3	-0.008
20C		15%	1850.0491	1909.9579	-10.2
	-15%	1850.0491	1909.9579	-12.3	-0.007
	End Point	1850.0491	1909.9579	-11.6	-0.006

8.4.2. **WCDMA**

<b>ID:</b>	39005	<b>Date:</b>	11/6/19
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**UMTS REL99 BAND 5**

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.0796	848.8994		
Extreme (50C)		824.0796	848.8994	2.9	0.0035
Extreme (40C)		824.0796	848.8994	2.2	0.0026
Extreme (30C)		824.0796	848.8994	3.0	0.0036
Extreme (10C)		824.0796	848.8994	2.5	0.0029
Extreme (0C)		824.0796	848.8994	3.1	0.0037
Extreme (-10C)		824.0796	848.8994	3.6	0.0043
Extreme (-20C)		824.0796	848.8994	4.2	0.0050
Extreme (-30C)		824.0796	848.8994	4.5	0.0053
20C	15%	824.0796	848.8994	3.6	0.0043
	-15%	824.0796	848.8994	3.7	0.0044
	End Point	824.0796	848.8994	3.7	0.0044

**UMTS REL99 BAND 2**

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.1010	1909.9094		
Extreme (50C)		1850.1010	1909.9094	3.2	0.0017
Extreme (40C)		1850.1010	1909.9094	4.1	0.0022
Extreme (30C)		1850.1010	1909.9094	2.7	0.0014
Extreme (10C)		1850.1010	1909.9094	2.1	0.0011
Extreme (0C)		1850.1010	1909.9094	2.8	0.0015
Extreme (-10C)		1850.1010	1909.9094	3.3	0.0018
Extreme (-20C)		1850.1010	1909.9094	5.3	0.0028
Extreme (-30C)		1850.1010	1909.9094	4.6	0.0024
20C	15%	1850.1010	1909.9094	3.0	0.0016
	-15%	1850.1010	1909.9094	3.2	0.0017
	End Point	1850.1010	1909.9094	3.0	0.0016

**UMTS REL99 BAND 4**

Limit		1710	1755	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1710.0896	1754.8982		
Extreme (50C)		1710.0896	1754.8982	2.4	0.0014
Extreme (40C)		1710.0896	1754.8982	2.2	0.0013
Extreme (30C)		1710.0896	1754.8982	3.2	0.0019
Extreme (10C)		1710.0896	1754.8982	2.1	0.0012
Extreme (0C)		1710.0896	1754.8982	2.6	0.0015
Extreme (-10C)		1710.0896	1754.8982	2.1	0.0012
Extreme (-20C)		1710.0896	1754.8982	2.9	0.0017
Extreme (-30C)		1710.0896	1754.8982	3.5	0.0020
20C	15%	1710.0896	1754.8982	2.1	0.0012
	-15%	1710.0896	1754.8982	2.6	0.0015
	End Point	1710.0896	1754.8982	2.9	0.0017

**8.4.3. LTE BAND 2**

<b>ID:</b>	50820	<b>Date:</b>	11/6/19
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**QPSK, (20MHz BANDWIDTH)**

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.8230	1909.1760		
Extreme (50C)		1850.8230	1909.1760	-4.6	-0.002
Extreme (40C)		1850.8230	1909.1760	-6.4	-0.003
Extreme (30C)		1850.8230	1909.1760	-6.5	-0.003
Extreme (10C)		1850.8230	1909.1760	-8.1	-0.004
Extreme (0C)		1850.8230	1909.1760	-7.5	-0.004
Extreme (-10C)		1850.8230	1909.1760	-8.8	-0.005
Extreme (-20C)		1850.8230	1909.1760	-8.6	-0.005
Extreme (-30C)		1850.8230	1909.1760	-9.1	-0.005
20C	15%	1850.8230	1909.1760	-9.6	-0.005
	-15%	1850.8230	1909.1760	-9.6	-0.005
	End Point	1850.8230	1909.1760	-6.7	-0.004

**8.4.4. LTE BAND 4**

<b>ID:</b>	39005	<b>Date:</b>	11/6/19
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**QPSK, (20MHz BANDWIDTH)**

Limit		1710	1755	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1710.8080	1754.1710		
Extreme (50C)		1710.8080	1754.1710	-7.2	-0.004
Extreme (40C)		1710.8080	1754.1710	-6.3	-0.004
Extreme (30C)		1710.8080	1754.1710	5.3	0.003
Extreme (10C)		1710.8080	1754.1710	-6.0	-0.003
Extreme (0C)		1710.8080	1754.1710	-9.1	-0.005
Extreme (-10C)		1710.8080	1754.1710	-8.8	-0.005
Extreme (-20C)		1710.8080	1754.1710	-9.7	-0.006
Extreme (-30C)		1710.8080	1754.1710	-9.8	-0.006
20C	15%	1710.8080	1754.1710	-7.7	-0.004
	-15%	1710.8080	1754.1710	-6.6	-0.004
	End Point	1710.8080	1754.1710	-7.0	-0.004

**8.4.5. LTE BAND 5**

<b>ID:</b>	50820	<b>Date:</b>	11/6/19
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**QPSK, (10MHz BANDWIDTH)**

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.2592	848.7062		
Extreme (50C)		824.2592	848.7062	-3.2	-0.004
Extreme (40C)		824.2592	848.7062	-3.1	-0.004
Extreme (30C)		824.2592	848.7062	-3.2	-0.004
Extreme (10C)		824.2592	848.7062	-5.2	-0.006
Extreme (0C)		824.2592	848.7062	-2.7	-0.003
Extreme (-10C)		824.2592	848.7062	-3.6	-0.004
Extreme (-20C)		824.2592	848.7062	-4.4	-0.005
Extreme (-30C)		824.2592	848.7062	-4.2	-0.005
20C		15%	824.2592	848.7062	-4.1
	-15%	824.2592	848.7062	-4.0	-0.005
	End Point	824.2592	848.7062	-5.6	-0.007

**8.4.6. LTE BAND 12**

<b>ID:</b>	39005	<b>Date:</b>	11/6/19
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**QPSK, (10MHz BANDWIDTH)**

Limit		699	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	699.2890	715.7106		
Extreme (50C)		699.2890	715.7106	-4.6	-0.01
Extreme (40C)		699.2890	715.7106	-6.4	-0.01
Extreme (30C)		699.2890	715.7106	-2.6	0.00
Extreme (10C)		699.2890	715.7106	-3.5	0.00
Extreme (0C)		699.2890	715.7106	-4.1	-0.01
Extreme (-10C)		699.2890	715.7106	-3.1	0.00
Extreme (-20C)		699.2890	715.7106	-3.6	-0.01
Extreme (-30C)		699.2890	715.7106	-3.2	0.00
20C		15%	699.2890	715.7106	-2.4
	-15%	699.2890	715.7106	3.2	0.00
	End Point	699.2890	715.7106	-3.9	-0.01

**8.4.7. LTE BAND 13**

<b>ID:</b>	39005	<b>Date:</b>	11/6/19
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**QPSK, (10MHz BANDWIDTH)**

Limit		777	787	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	777.3090	786.6815		
Extreme (50C)		777.3090	786.6815	-2.6	-0.003
Extreme (40C)		777.3090	786.6815	-2.7	-0.003
Extreme (30C)		777.3090	786.6815	-4.3	-0.006
Extreme (10C)		777.3090	786.6815	-3.6	-0.005
Extreme (0C)		777.3090	786.6815	-3.5	-0.005
Extreme (-10C)		777.3090	786.6815	-2.4	-0.003
Extreme (-20C)		777.3090	786.6815	-4.2	-0.005
Extreme (-30C)		777.3090	786.6815	-3.4	-0.004
20C		15%	777.3090	786.6815	-4.5
	-15%	777.3090	786.6815	-4.5	-0.006
	End Point	777.3090	786.6815	-3.6	-0.005

**8.4.8. LTE BAND 41 (FCC)**

<b>ID:</b>	39005	<b>Date:</b>	11/6/19
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**QPSK, (20MHz BANDWIDTH)**

Limit		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	2496.6380	2689.2620		
Extreme (50C)		2496.6380	2689.2620	-12.4	-0.005
Extreme (40C)		2496.6380	2689.2620	-11.9	-0.005
Extreme (30C)		2496.6380	2689.2620	-13.2	-0.005
Extreme (10C)		2496.6380	2689.2620	-12.5	-0.005
Extreme (0C)		2496.6380	2689.2620	-15.3	-0.006
Extreme (-10C)		2496.6380	2689.2620	-17.3	-0.007
Extreme (-20C)		2496.6380	2689.2620	-16.7	-0.006
Extreme (-30C)		2496.6380	2689.2620	-16.1	-0.006
20C		15%	2496.6380	2689.2620	-16.3
	-15%	2496.6380	2689.2620	-13.3	-0.005
	End Point	2496.6380	2689.2620	-13.1	-0.005

**8.4.9. LTE BAND 66**

<b>ID:</b>	50820	<b>Date:</b>	11/6/19
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**QPSK, (20MHz BANDWIDTH)**

Limit		1710	1780	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1710.8320	1779.1720		
Extreme (50C)		1710.8320	1779.1720	-6.3	-0.004
Extreme (40C)		1710.8320	1779.1720	-6.4	-0.004
Extreme (30C)		1710.8320	1779.1720	-6.9	-0.004
Extreme (10C)		1710.8320	1779.1720	-5.9	-0.003
Extreme (0C)		1710.8320	1779.1720	-7.4	-0.004
Extreme (-10C)		1710.8320	1779.1720	-6.8	-0.004
Extreme (-20C)		1710.8320	1779.1720	-8.4	-0.005
Extreme (-30C)		1710.8320	1779.1720	-7.9	-0.004
20C	15%	1710.8320	1779.1720	-6.6	-0.004
	-15%	1710.8320	1779.1720	-7.0	-0.004
	End Point	1710.8320	1779.1720	-7.8	-0.004

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## 8.5. PEAK TO AVERAGE RATIO

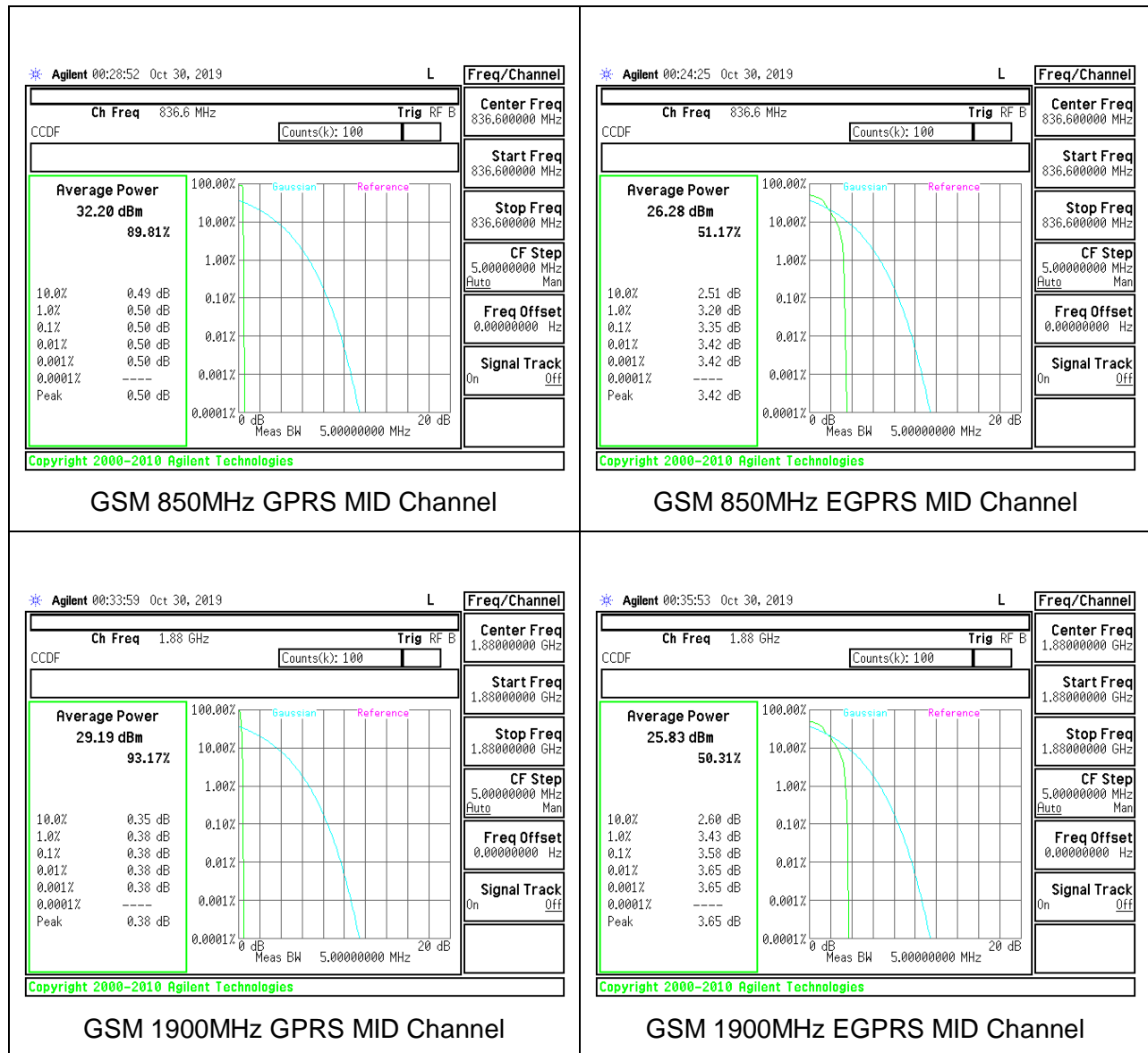
### LIMITS

In addition, the peak to average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

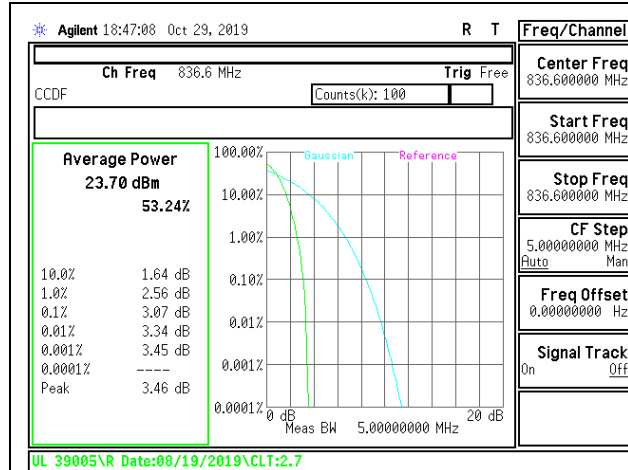
### RESULT

LAT 1 antenna was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

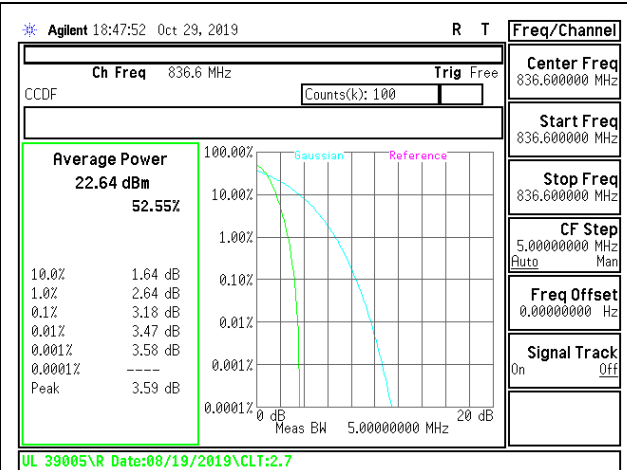
8.5.1. GSM



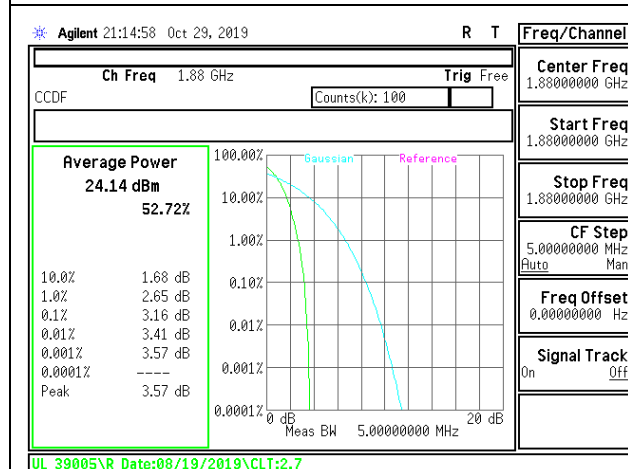
8.5.2. WCDMA



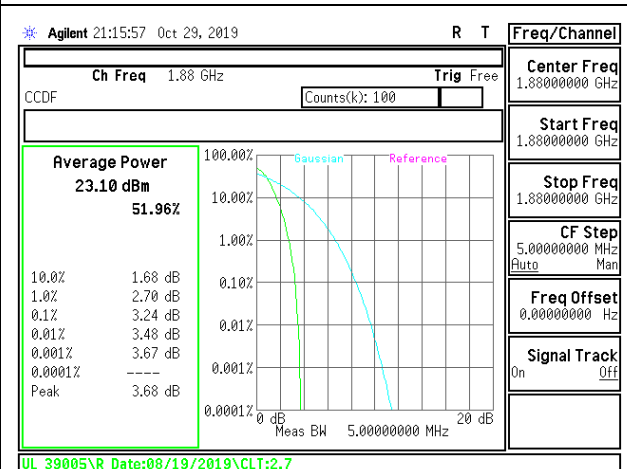
WCDMA BAND5 Rel99 MID Channel



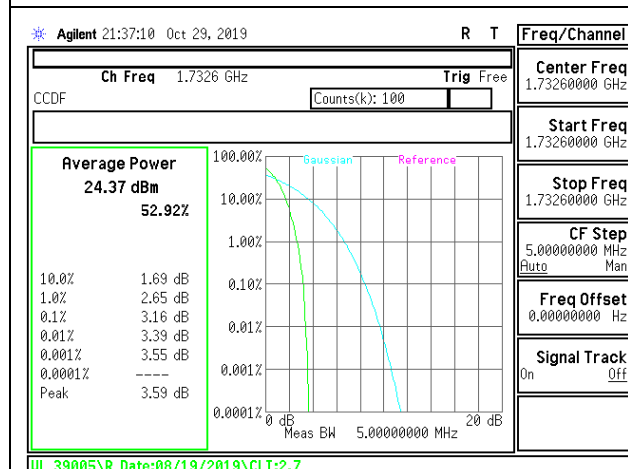
WCDMA BAND5 HSDPA MID Channel



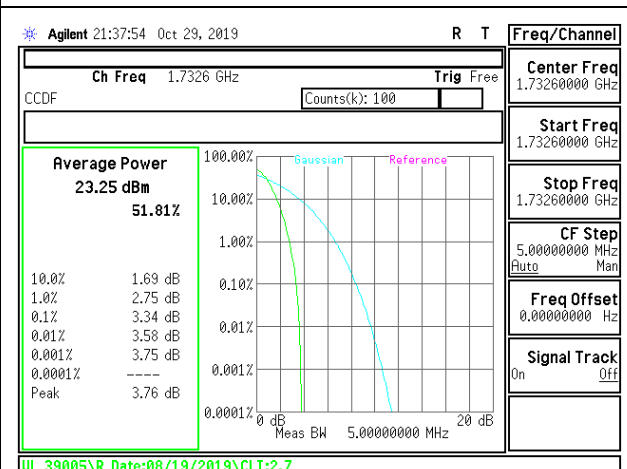
WCDMA BAND2 Rel99 MID Channel



WCDMA BAND2 HSDPA MID Channel

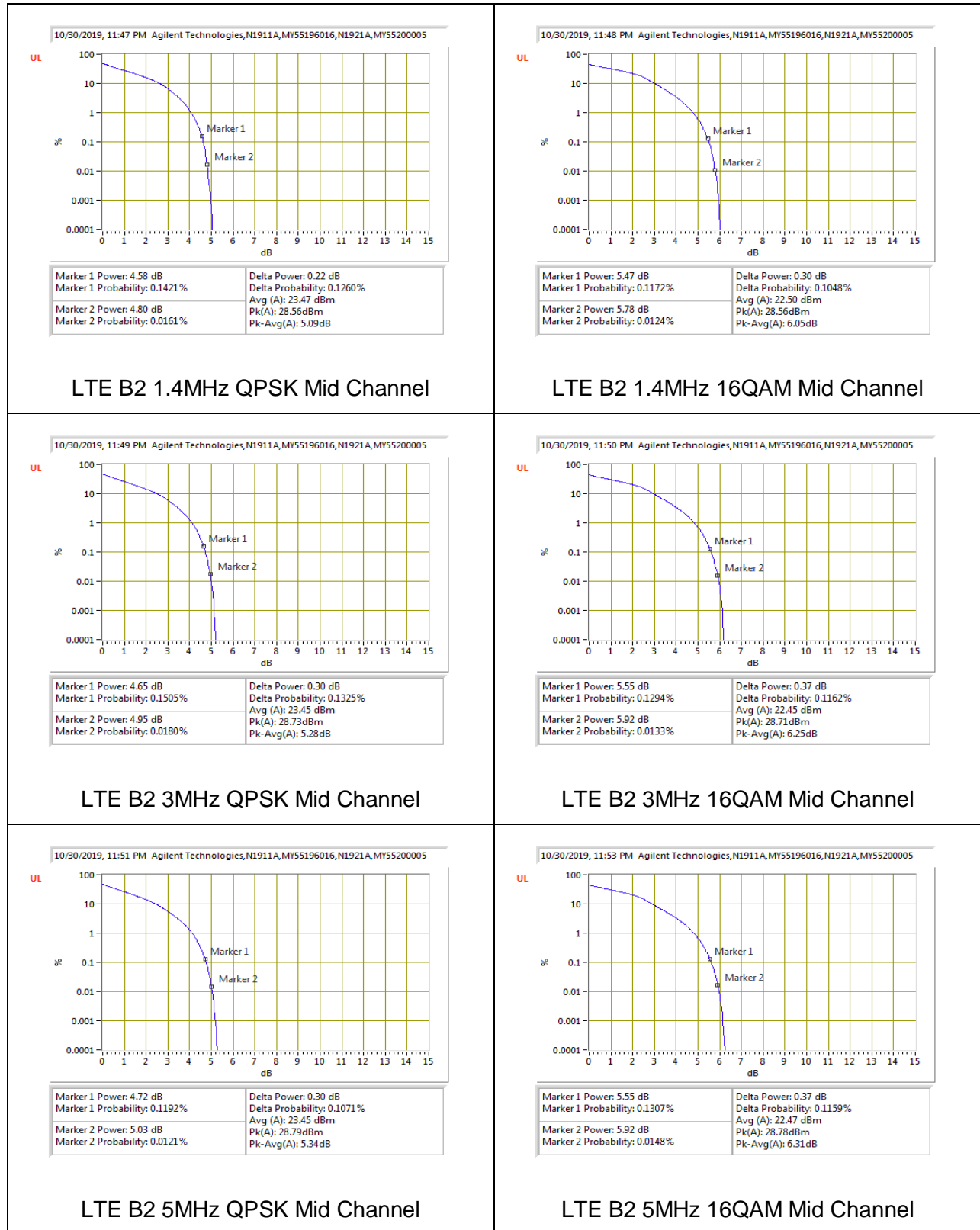


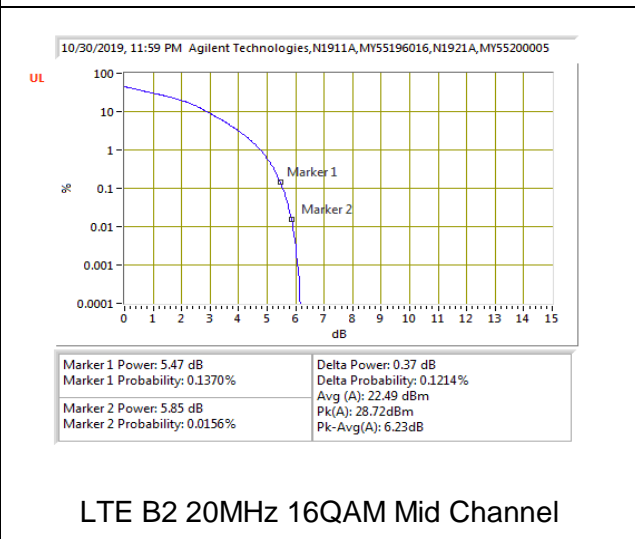
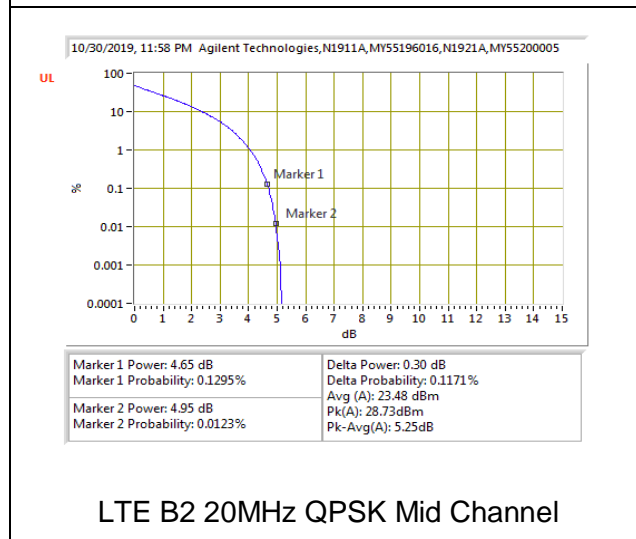
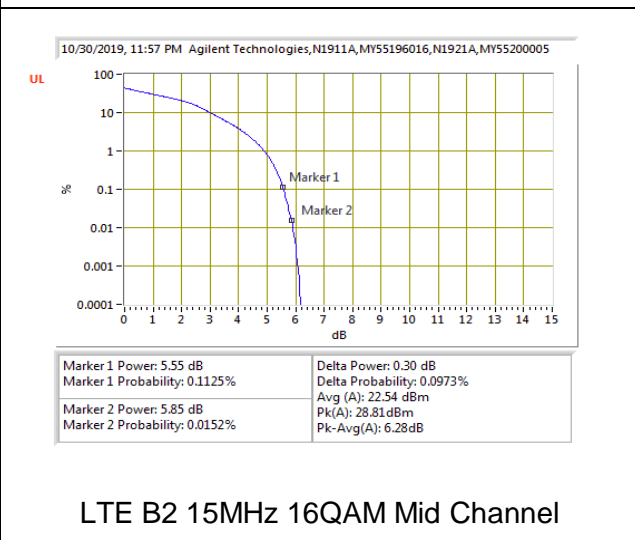
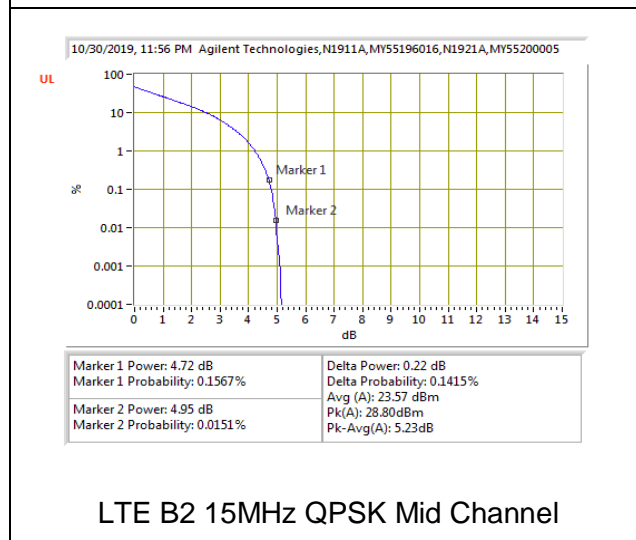
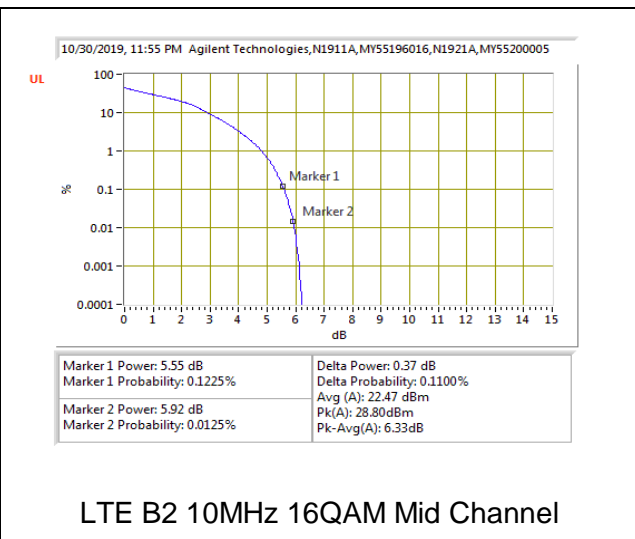
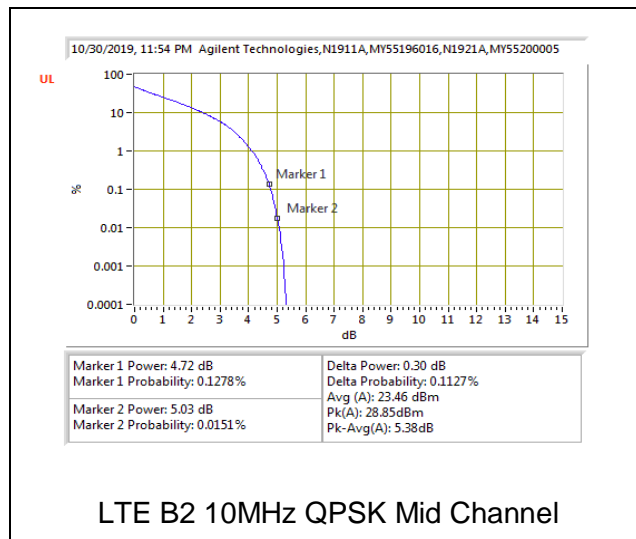
WCDMA BAND4 Rel99 MID Channel



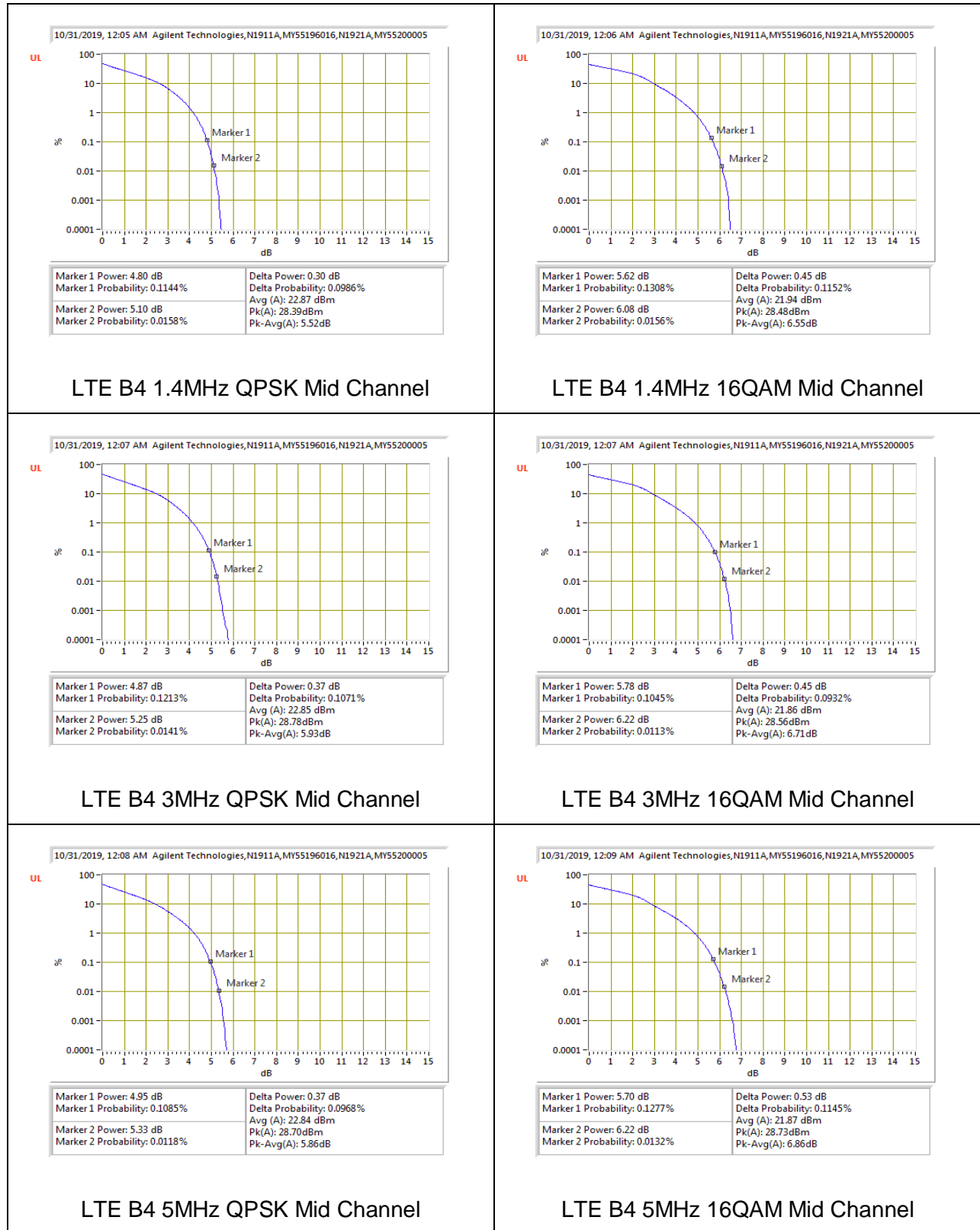
WCDMA BAND4 HSDPA MID Channel

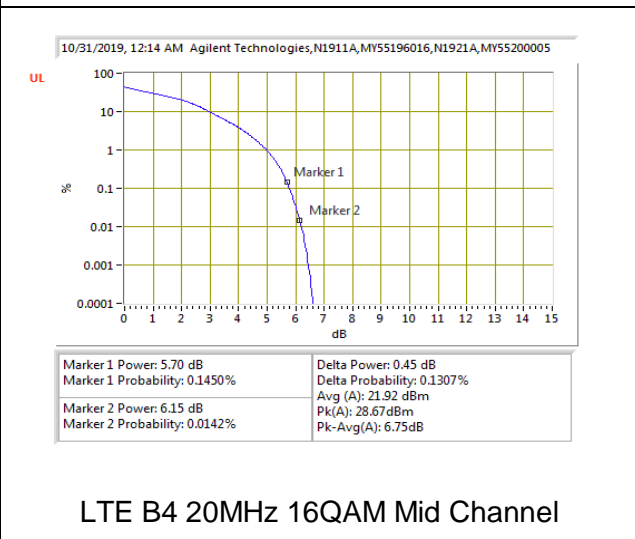
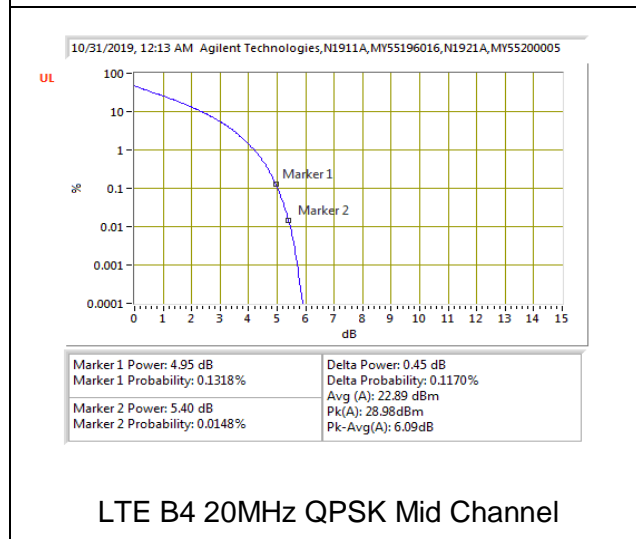
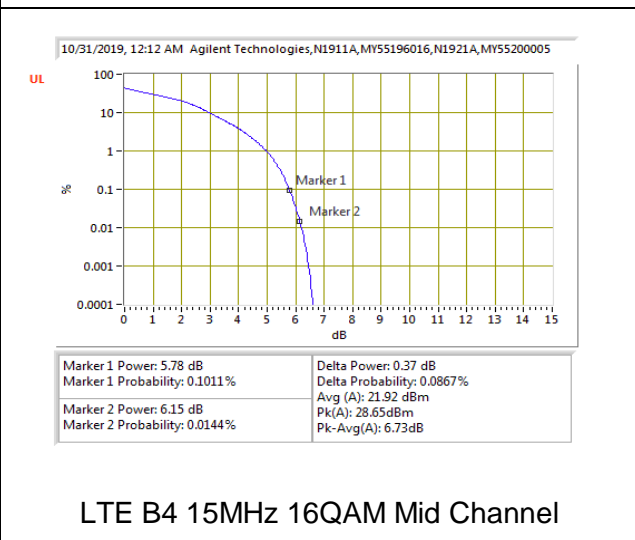
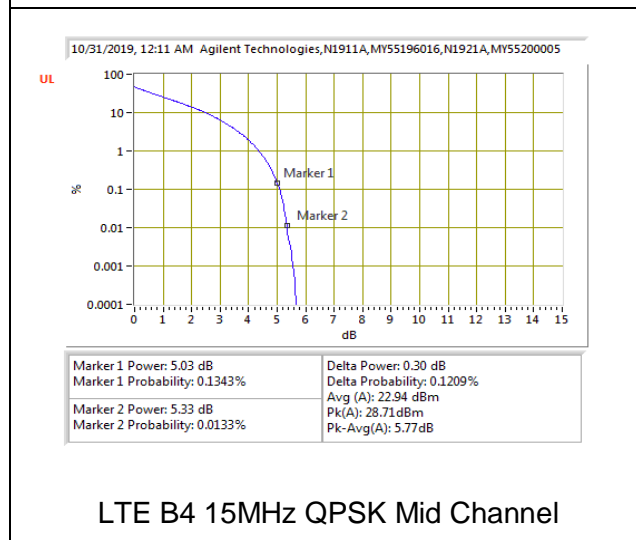
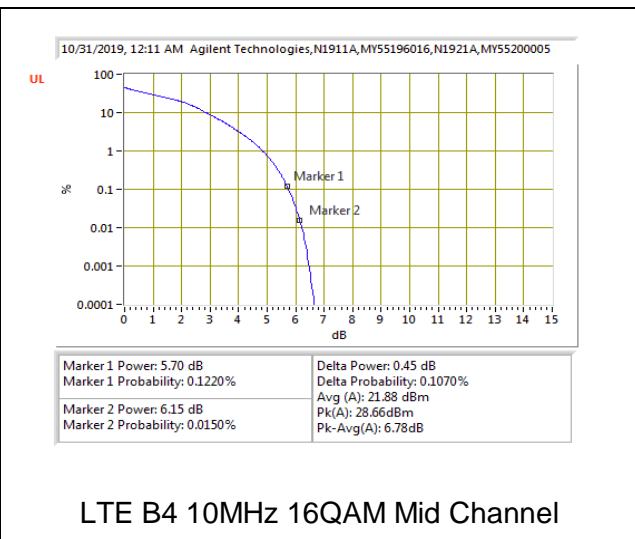
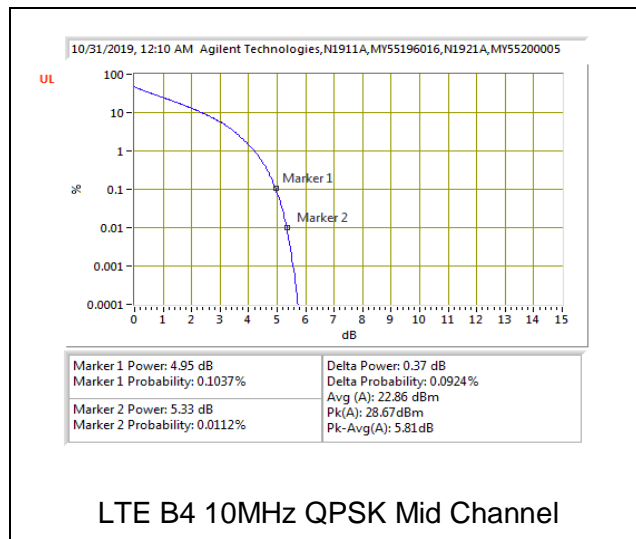
8.5.3. LTE BAND 2



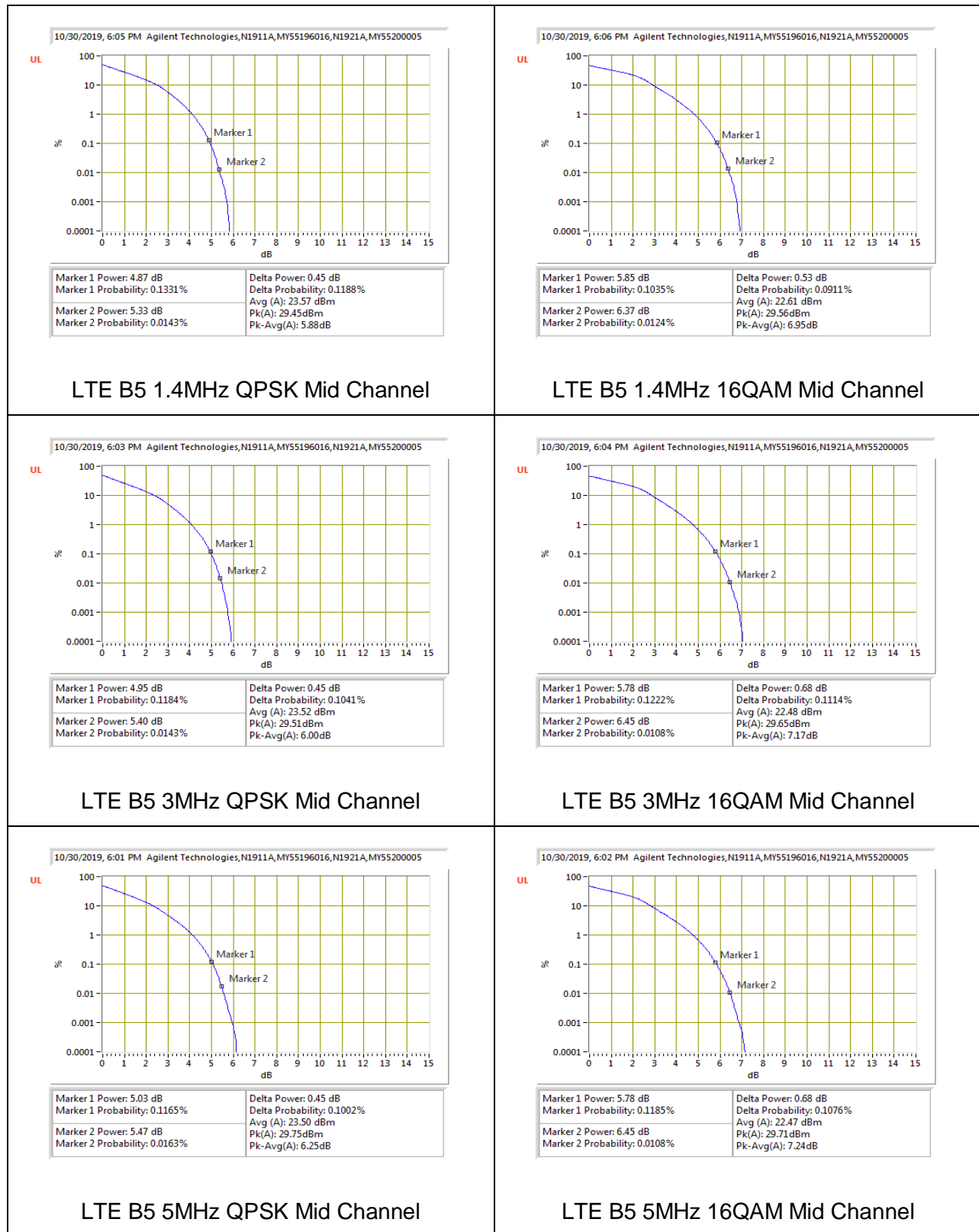


8.5.4. LTE BAND 4





8.5.5. LTE BAND 5



LTE B5 1.4MHz QPSK Mid Channel

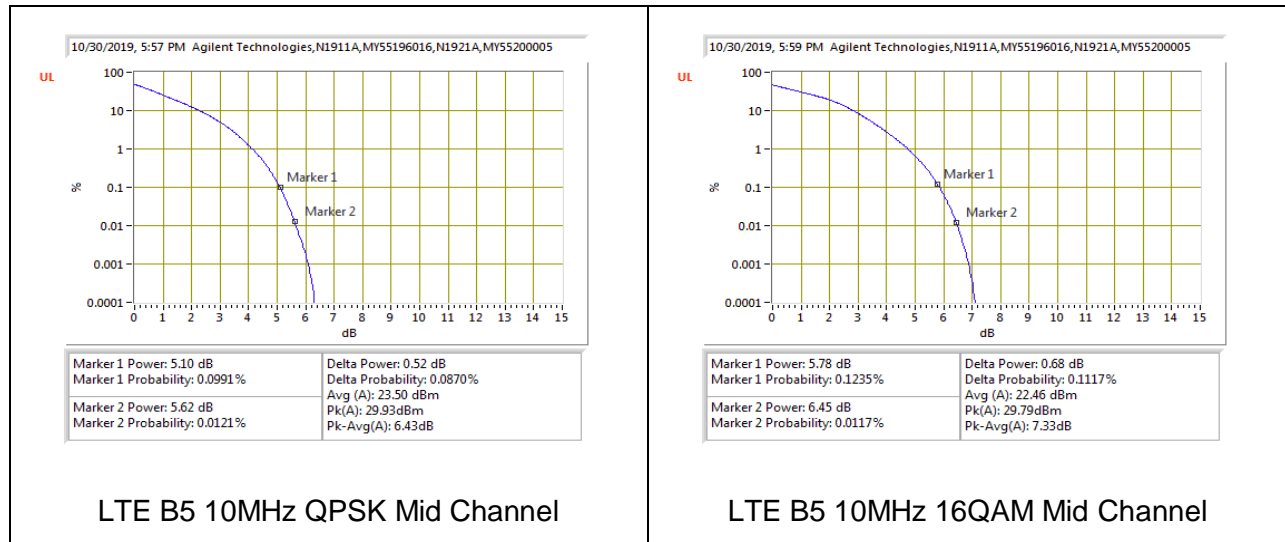
LTE B5 1.4MHz 16QAM Mid Channel

LTE B5 3MHz QPSK Mid Channel

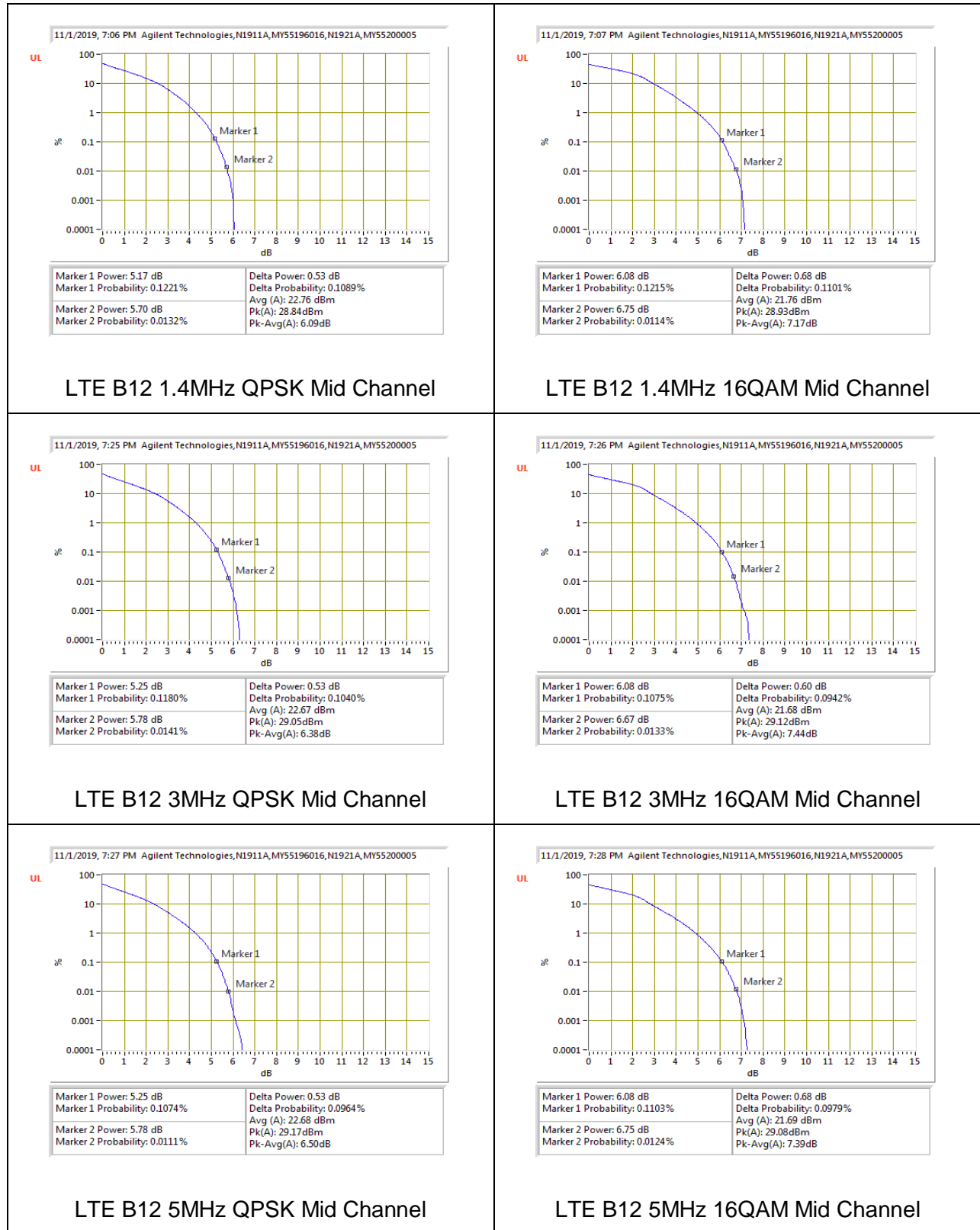
LTE B5 3MHz 16QAM Mid Channel

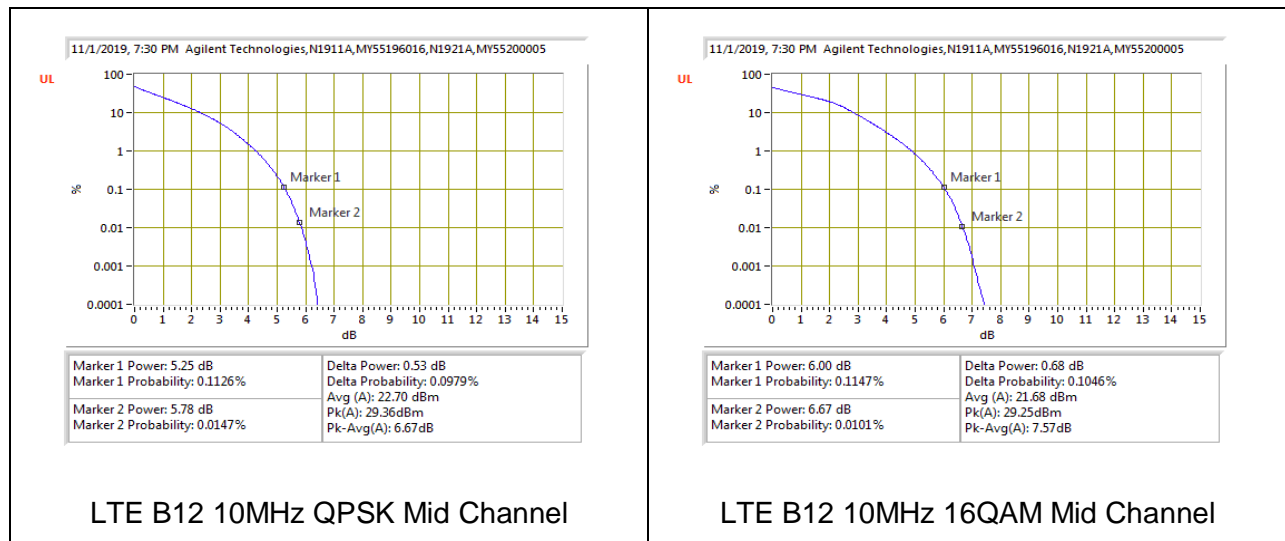
LTE B5 5MHz QPSK Mid Channel

LTE B5 5MHz 16QAM Mid Channel



8.5.6. LTE BAND 12

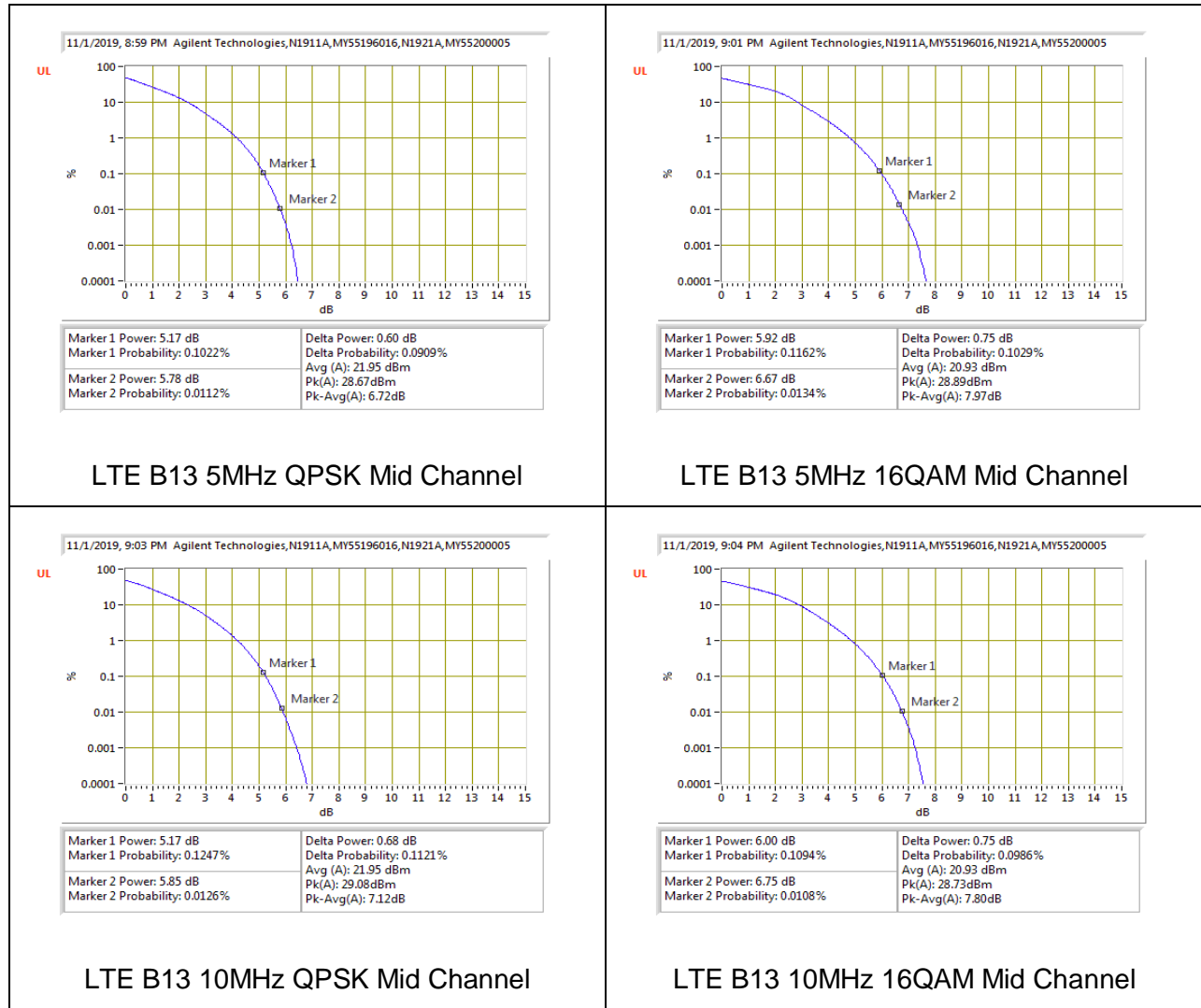




LTE B12 10MHz QPSK Mid Channel

LTE B12 10MHz 16QAM Mid Channel

8.5.7. LTE BAND 13



8.5.8. LTE BAND 41 (FCC)

