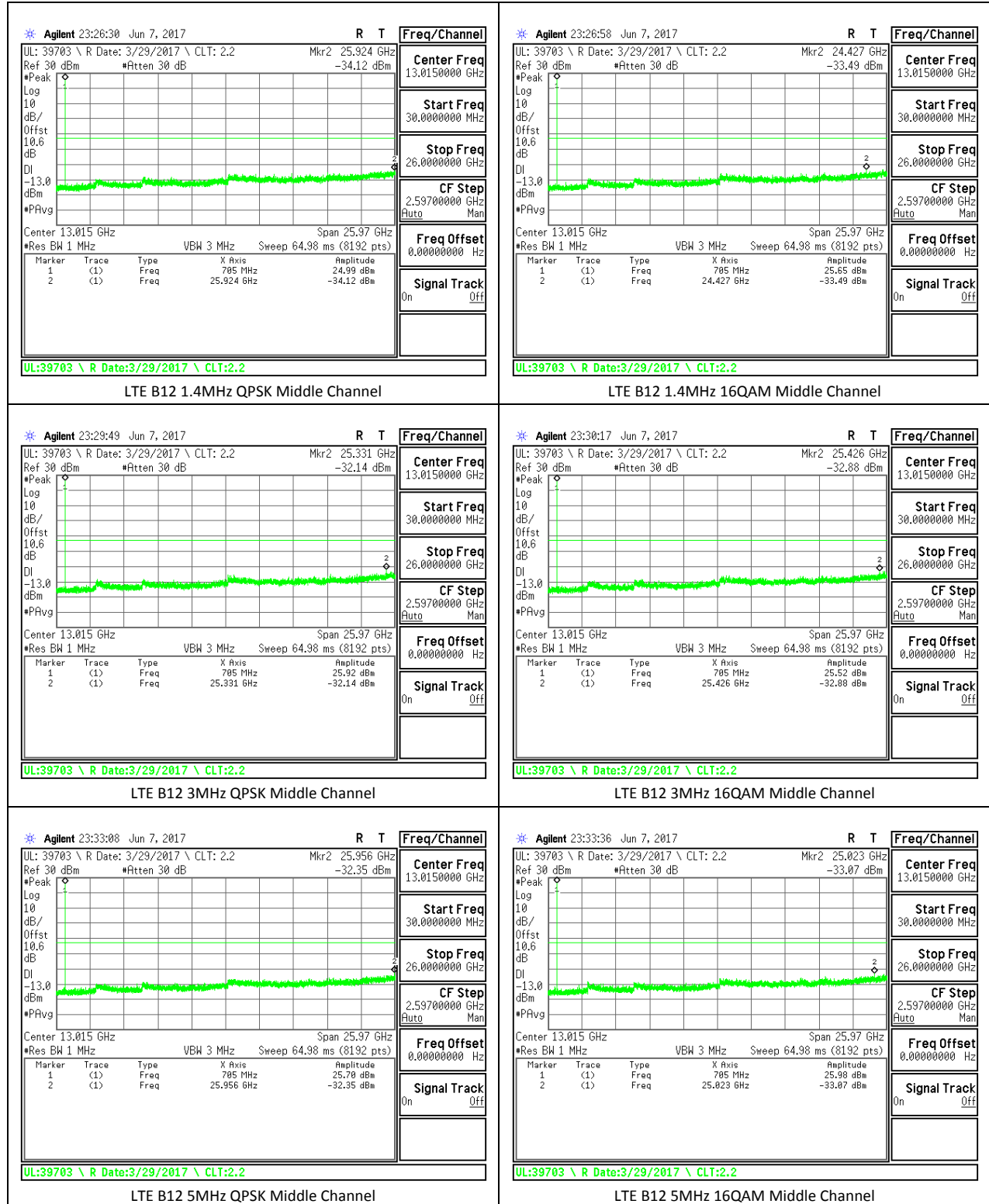
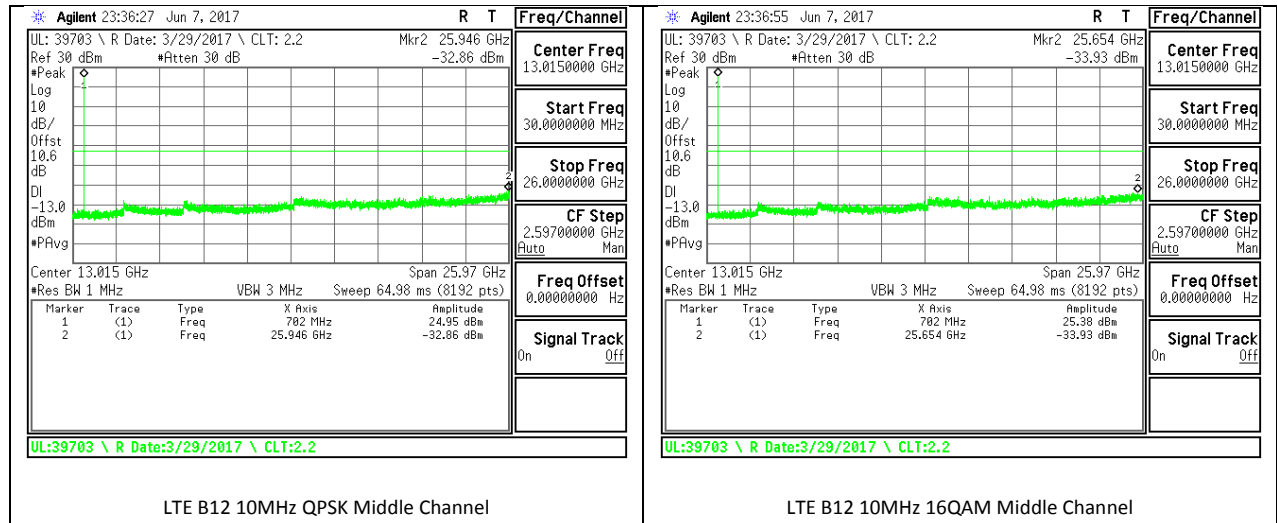


**LTE Band 12**

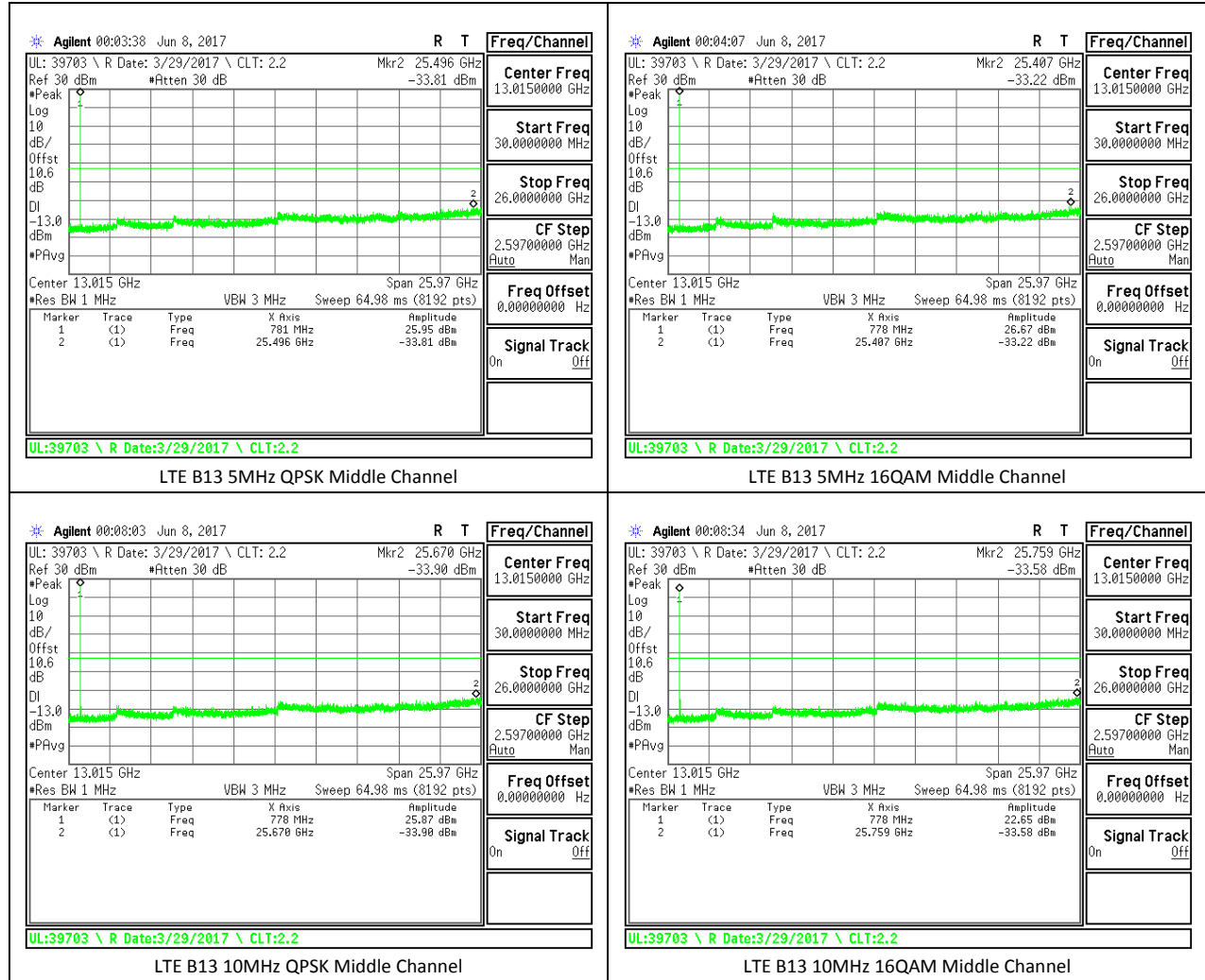
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	
LTE12	1.4	16QAM	699.7	-33.86	-13	-20.86
			707.5	-33.49	-13	-20.49
			715.3	-33.46	-13	-20.46
		QPSK	699.7	-32.96	-13	-19.96
			707.5	-34.12	-13	-21.12
			715.3	-33.92	-13	-20.92
	3	QPSK	700.5	-33.59	-13	-20.59
			707.5	-32.14	-13	-19.14
			714.5	-33.66	-13	-20.66
		16QAM	700.5	-32.36	-13	-19.36
			707.5	-32.88	-13	-19.88
			714.5	-32.07	-13	-19.07
	5	QPSK	701.5	-33.32	-13	-20.32
			707.5	-32.35	-13	-19.35
			713.5	-32.79	-13	-19.79
		16QAM	701.5	-33.85	-13	-20.85
			707.5	-33.07	-13	-20.07
			713.5	-33.12	-13	-20.12
	10	QPSK	704	-33.92	-13	-20.92
			707.5	-32.86	-13	-19.86
			711	-33.85	-13	-20.85
		16QAM	704	-33.65	-13	-20.65
			707.5	-33.93	-13	-20.93
			711	-32.76	-13	-19.76





**LTE Band 13**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE13	5	QPSK	779.5	-33.8	-13	-20.8
			782	-33.65	-13	-20.65
			784.5	-33.68	-13	-20.68
		16QAM	779.5	-33.22	-13	-20.22
			782	-33.68	-13	-20.68
			784.5	-32.78	-13	-19.78
	10	QPSK	782	-32.59	-13	-19.59
			782	-33.9	-13	-20.9
			782	-33.28	-13	-20.28
		16QAM	782	-33.68	-13	-20.68
			782	-33.58	-13	-20.58
			782	-33.33	-13	-20.33

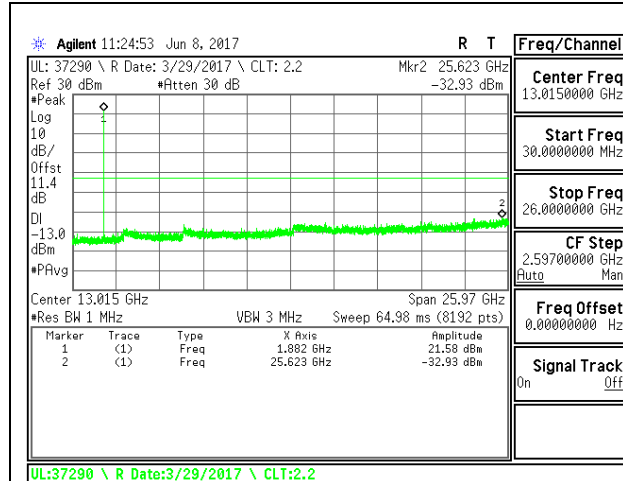


**LTE Band 25**

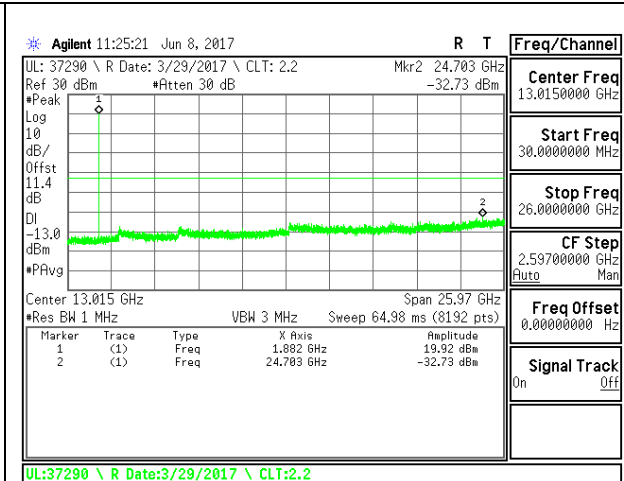
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	1.4	QPSK	1850.7	-32.28	-13	-19.28
			1882.5	-32.93	-13	-19.93
			1914.3	-31.88	-13	-18.88
		16QAM	1850.7	-33.2	-13	-20.2
			1882.5	-32.73	-13	-19.73
			1914.3	-32.63	-13	-19.63
	3	QPSK	1851.5	-33.07	-13	-20.07
			1882.5	-32.64	-13	-19.64
			1913.5	-31.94	-13	-18.94
		16QAM	1851.5	-32.41	-13	-19.41
			1882.5	-32.11	-13	-19.11
			1913.5	-32.89	-13	-19.89
	5	QPSK	1852.5	-33	-13	-20.0
			1882.5	-32.94	-13	-19.94
			1912.5	-31.56	-13	-18.56
		16QAM	1852.5	-32.88	-13	-19.88
			1882.5	-33.31	-13	-20.31
			1912.5	-33.26	-13	-20.26
	10	QPSK	1855	-33.25	-13	-20.25
			1882.5	-32.93	-13	-19.93
			1910	-32.51	-13	-19.51
		16QAM	1855	-32.74	-13	-19.74
			1882.5	-32.81	-13	-19.81
			1910	-33.18	-13	-20.18



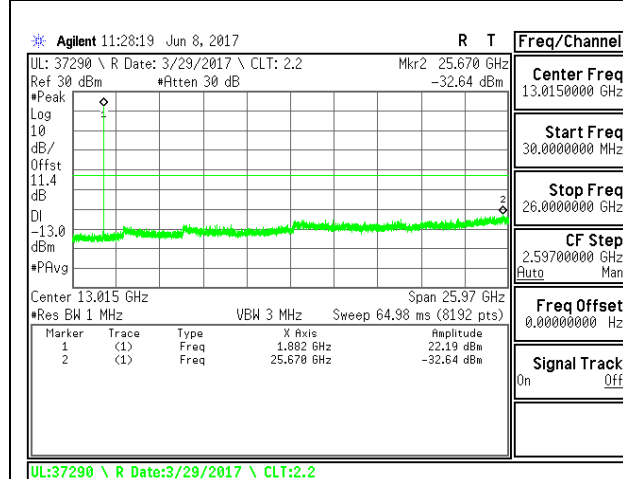
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE25	15	QPSK	1857.5	-32.88	-13	-19.88
			1882.5	-33.13	-13	-20.13
			1907.5	-32.23	-13	-19.23
		16QAM	1857.5	-32.68	-13	-19.68
			1882.5	-32.78	-13	-19.78
			1907.5	-32.79	-13	-19.79
	20	QPSK	1860	-32.59	-13	-19.59
			1882.5	-32.02	-13	-19.02
			1905	-33.02	-13	-20.02
		16QAM	1860	-32.7	-13	-19.7
			1882.5	-32.8	-13	-19.8
			1905	-33.11	-13	-20.11



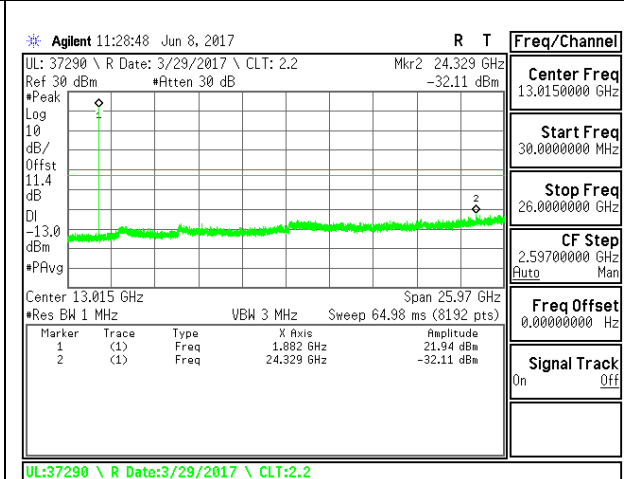
LTE B25 1.4MHz QPSK Middle Channel



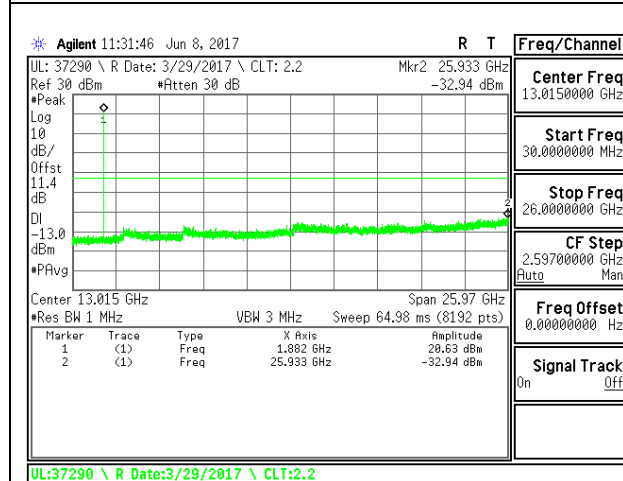
LTE B25 1.4MHz 16QAM Middle Channel



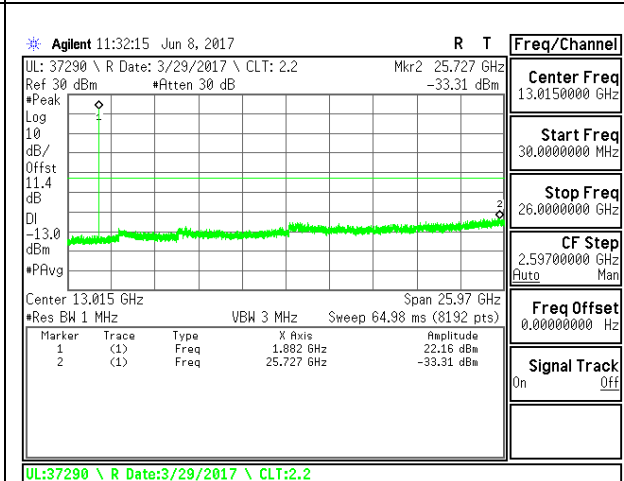
LTE B25 3MHz QPSK Middle Channel



LTE B25 3MHz 16QAM Middle Channel



LTE B25 5MHz QPSK Middle Channel

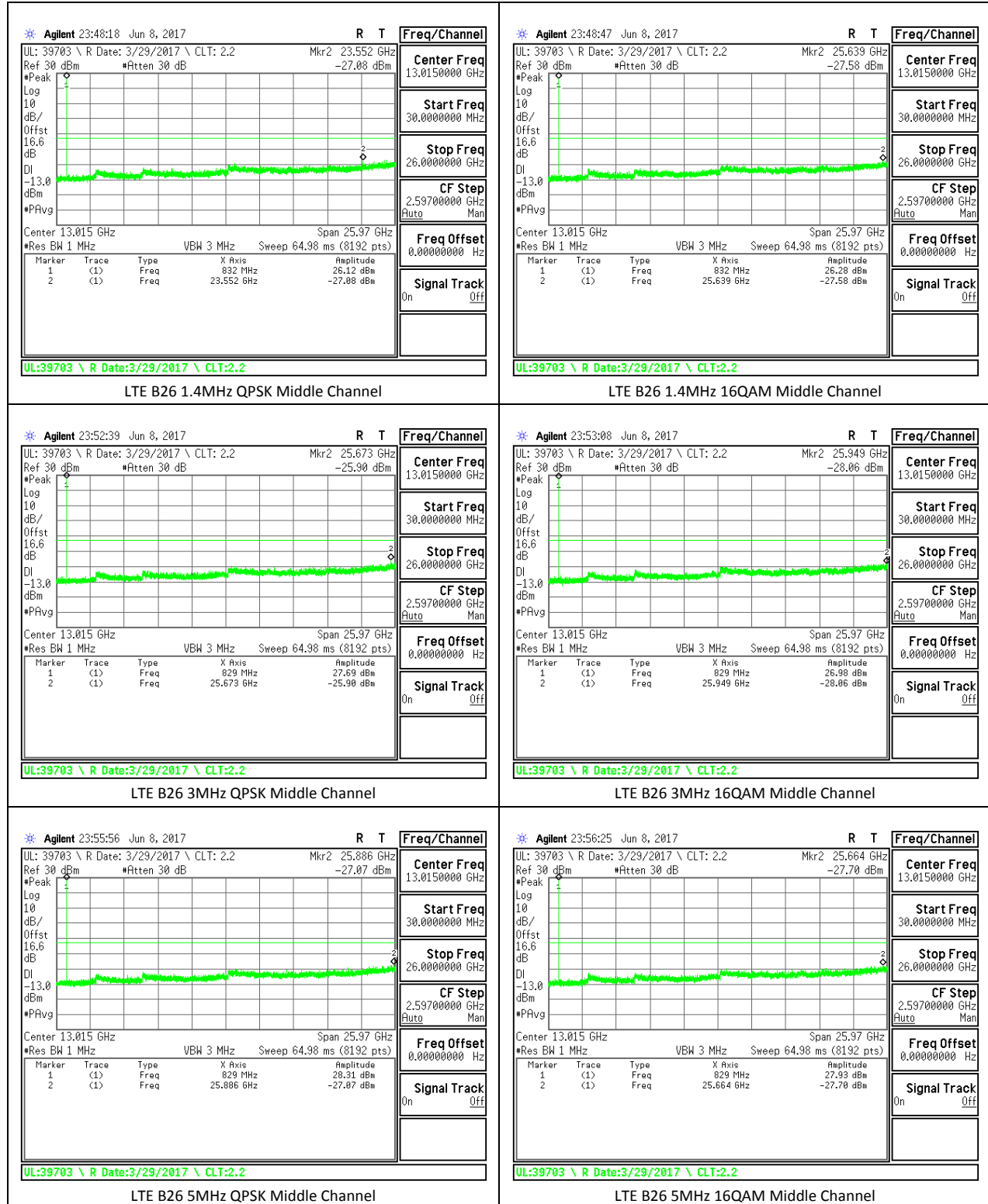


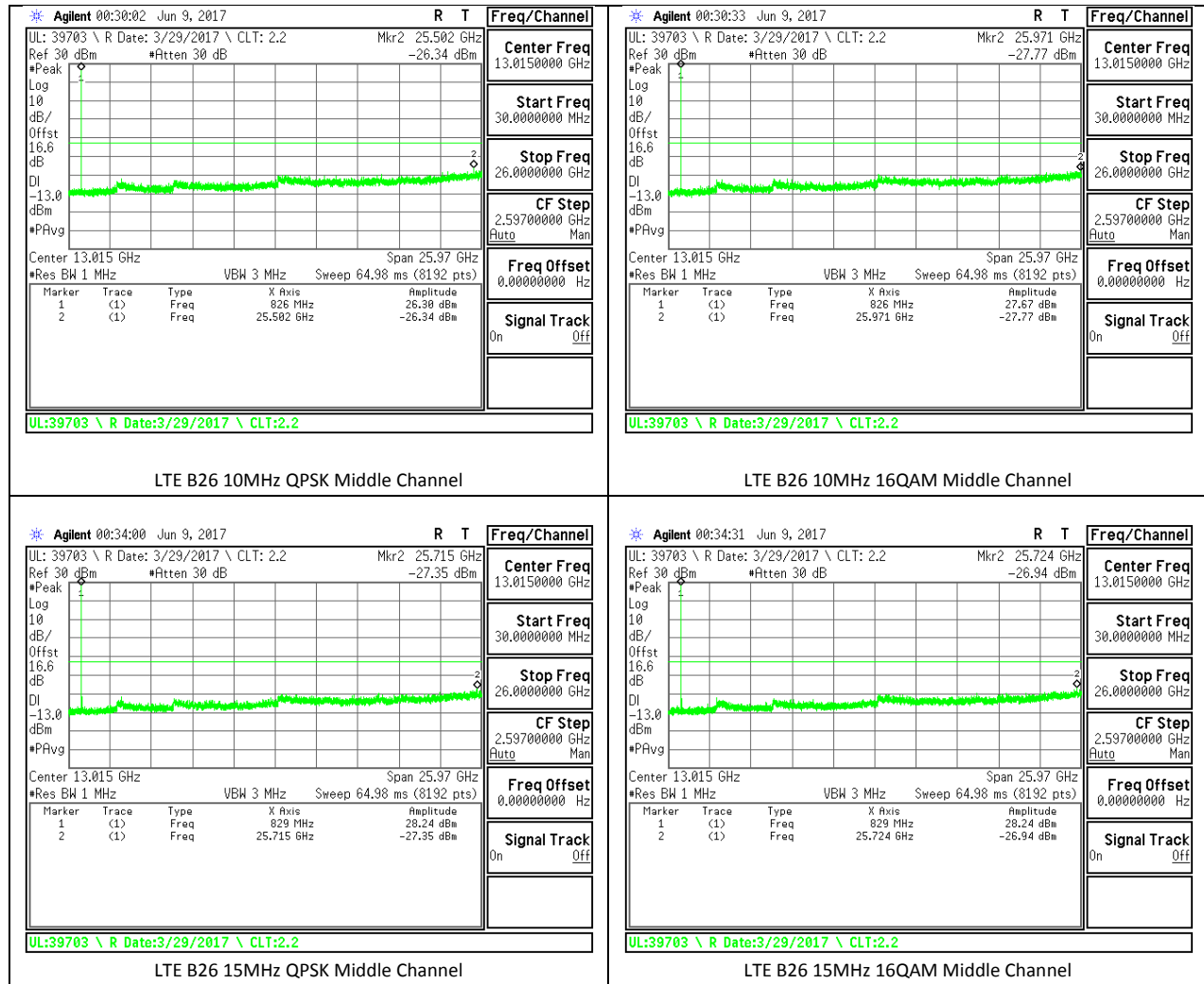
LTE B25 5MHz 16QAM Middle Channel



**LTE Band 26**

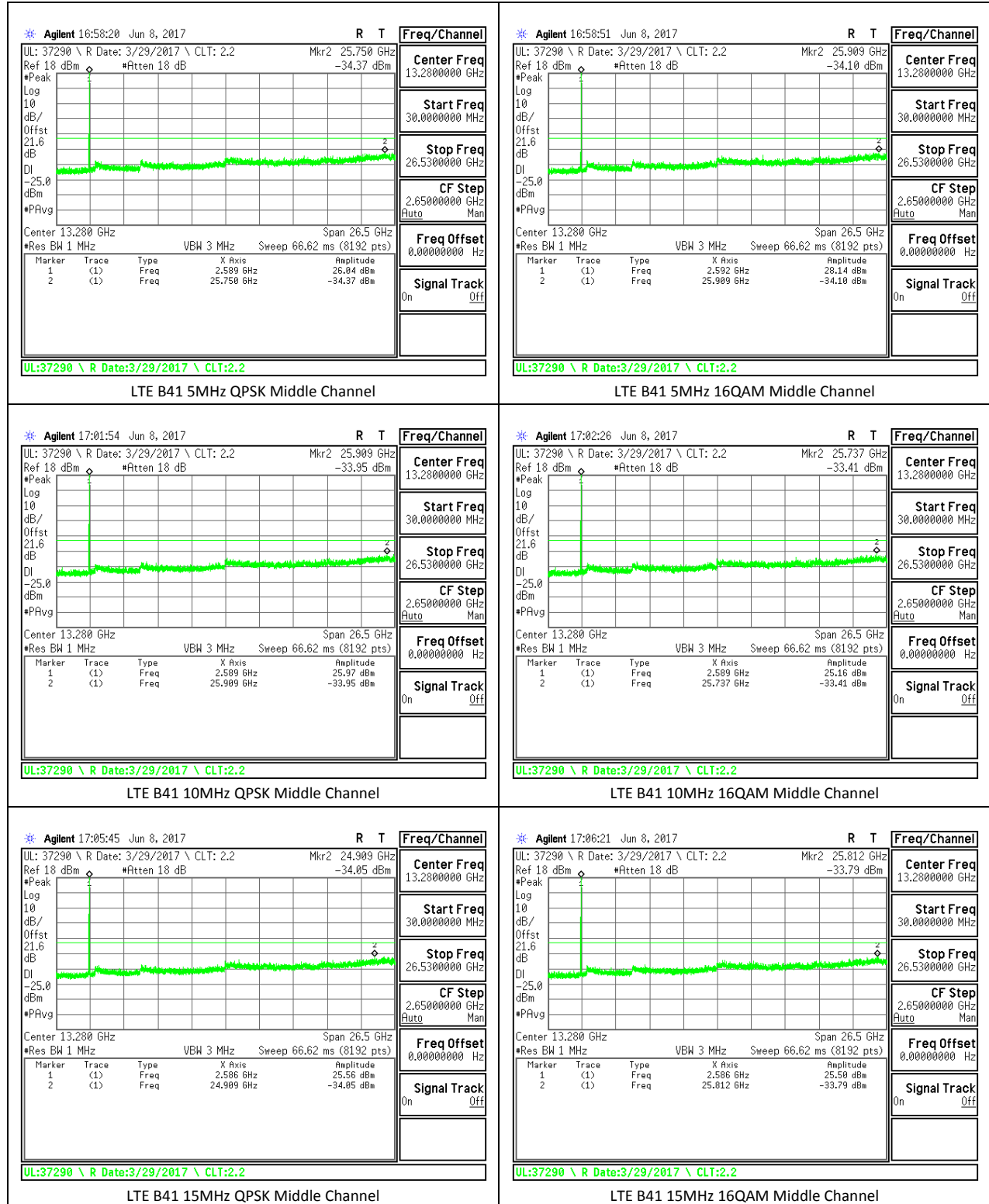
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE26	1.4	QPSK	814.7	-26.92	-13	-13.92
			831.5	-27.08	-13	-14.08
			848.3	-28.13	-13	-15.13
		16QAM	814.7	-27.72	-13	-14.72
			831.5	-27.58	-13	-14.58
			848.3	-27.4	-13	-14.4
	3	QPSK	815.5	-27.6	-13	-14.6
			831.5	-25.9	-13	-12.9
			847.5	-27.7	-13	-14.7
		16QAM	815.5	-27.16	-13	-14.16
			831.5	-28.06	-13	-15.06
			847.5	-27.76	-13	-14.76
	5	QPSK	816.5	-27.46	-13	-14.46
			831.5	-27.07	-13	-14.07
			846.5	-26.92	-13	-13.92
		16QAM	816.5	-27.76	-13	-14.76
			831.5	-27.7	-13	-14.7
			846.5	-27.38	-13	-14.38
	10	QPSK	816.5	-27.46	-13	-14.46
			831.5	-27.07	-13	-14.07
			846.5	-26.92	-13	-13.92
		16QAM	819	-26.96	-13	-13.96
			831.5	-27.77	-13	-14.77
			844	-27.64	-13	-14.64
15	QPSK	831.5	-26.5	-13	-13.5	
		836.5	-27.35	-13	-14.35	
		841.5	-27.75	-13	-14.75	
	16QAM	831.5	-27.08	-13	-14.08	
		836.5	-26.94	-13	-13.94	
		841.5	-27.95	-13	-14.95	



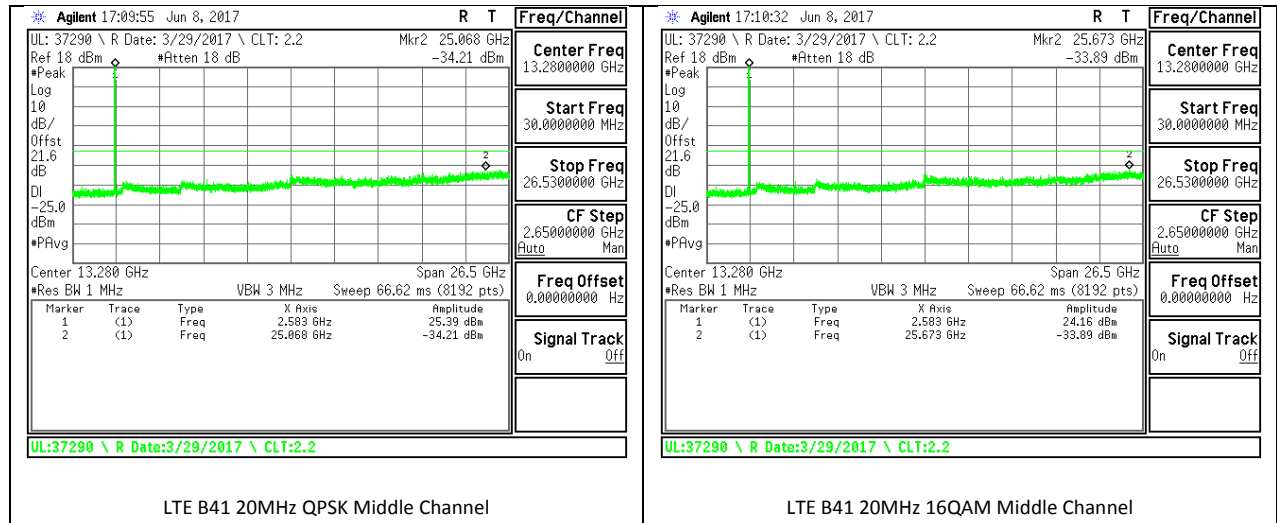


**LTE Band 41**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE41	5	QPSK	2498.5	-33.99	-25	-8.99
			2593	-34.37	-25	-9.37
			2687.5	-33.83	-25	-8.83
		16QAM	2498.5	-33.71	-25	-8.71
			2593	-34.10	-25	-9.1
			2687.5	-33.52	-25	-8.52
	10	QPSK	2501	-33.93	-25	-8.93
			2593	-33.95	-25	-8.95
			2685	-34.53	-25	-9.53
		16QAM	2501	-33.37	-25	-8.37
			2593	-33.41	-25	-8.41
			2685	-34.38	-25	-9.38
	15	QPSK	2503.5	-34.25	-25	-9.25
			2593	-34.05	-25	-9.05
			2682.5	-33.98	-25	-8.98
		16QAM	2503.5	-33.22	-25	-8.22
			2593	-33.79	-25	-8.79
			2682.5	-33.96	-25	-8.96
	20	QPSK	2506	-34.23	-25	-9.23
			2593	-34.21	-25	-9.21
			2680	-33.85	-25	-8.85
		16QAM	2506	-33.90	-25	-8.9
			2593	-33.89	-25	-8.89
			2680	-33.95	-25	-8.95



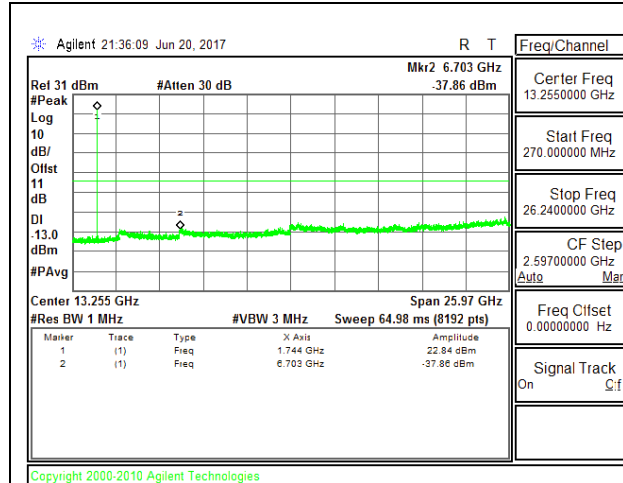




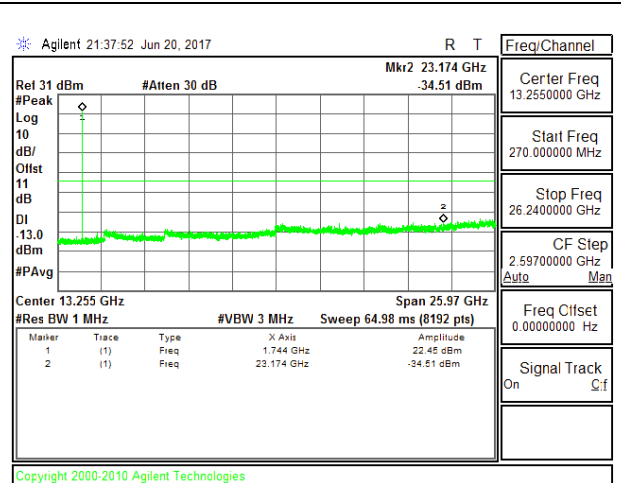
**LTE Band 66**

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE66	1.4	QPSK	1710.7	-33.46	-13	-20.5
			1745	-37.86	-13	-20.46
			1779.3	-32.45	-13	-24.86
		16QAM	1710.7	-30.94	-13	-17.94
			1745	-34.51	-13	-21.51
			1779.3	-33.50	-13	13
	3	QPSK	1711.5	-33.11	-13	-20.11
			1745	-32.76	-13	-19.76
			1778.5	-32.85	-13	-19.85
		16QAM	1711.5	-33.76	-13	-20.76
			1745	-33.77	-13	-20.77
			1778.5	-32.97	-13	-19.97
	5	QPSK	1712.5	-33.40	-13	-20.4
			1745	-32.47	-13	-19.47
			1777.5	-32.54	-13	-19.54
		16QAM	1712.5	-33.45	-13	-20.45
			1745	-32.05	-13	-19.05
			1777.5	-32.65	-13	-19.65
	10	QPSK	1715	-33.12	-13	-20.12
			1745	-33.26	-13	-20.26
			1775	-32.17	-13	-19.17
		16QAM	1715	-33.63	-13	-20.63
			1745	-33.85	-13	-20.85
			1775	-33.28	-13	-20.28

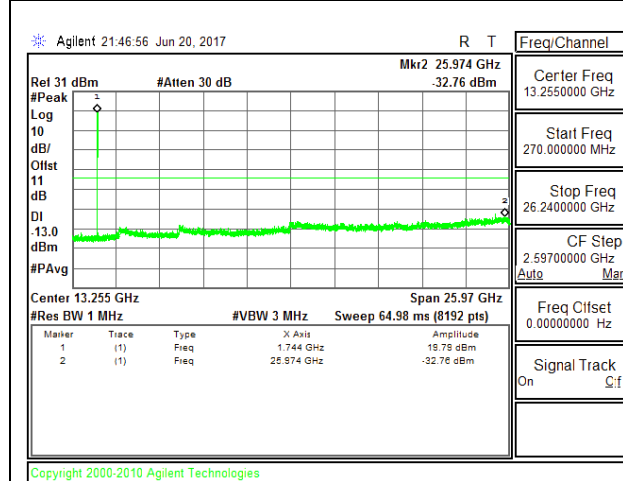
Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE66	15	QPSK	1717.5	-32.04	-13	-19.04
			1745	-33.06	-13	-20.06
			1772.5	-32.98	-13	-19.98
		16QAM	1717.5	-32.33	-13	-19.33
			1745	-33.42	-13	-20.42
			1772.5	-33.15	-13	-20.15
	20	QPSK	1720	-32.99	-13	-19.99
			1745	-32.03	-13	-19.03
			1770	-33.03	-13	-20.03
		16QAM	1720	-32.69	-13	-19.69
			1745	-33.16	-13	-20.16
			1770	-33.06	-13	-20.06



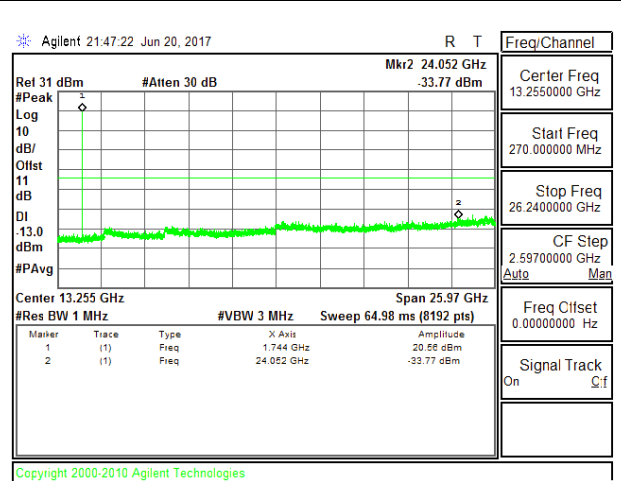
LTE B66 1.4MHz QPSK Middle Channel



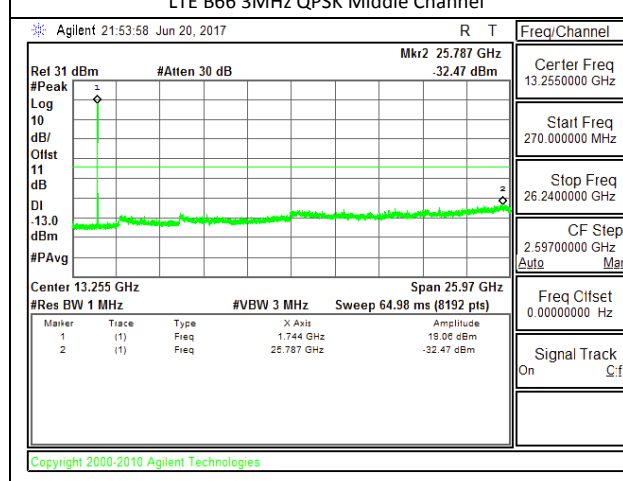
LTE B66 1.4MHz 16QAM Middle Channel



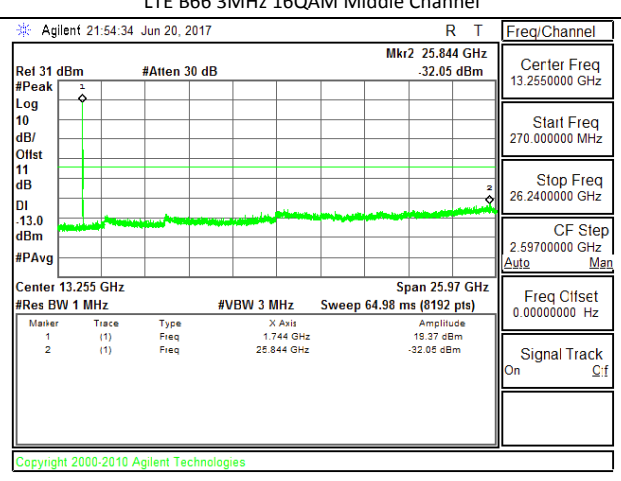
LTE B66 3MHz QPSK Middle Channel



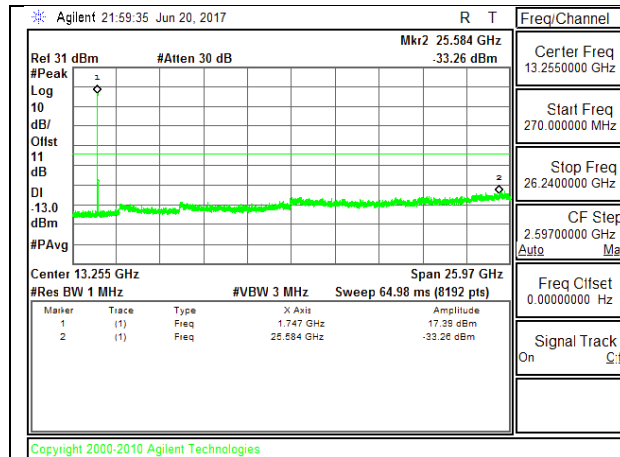
LTE B66 3MHz 16QAM Middle Channel



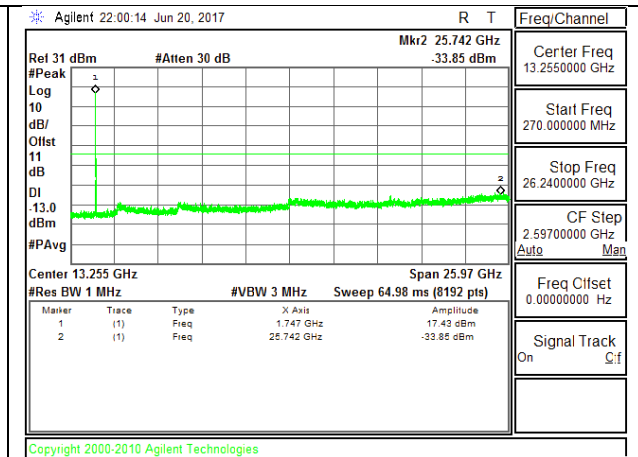
LTE B66 5MHz QPSK Middle Channel



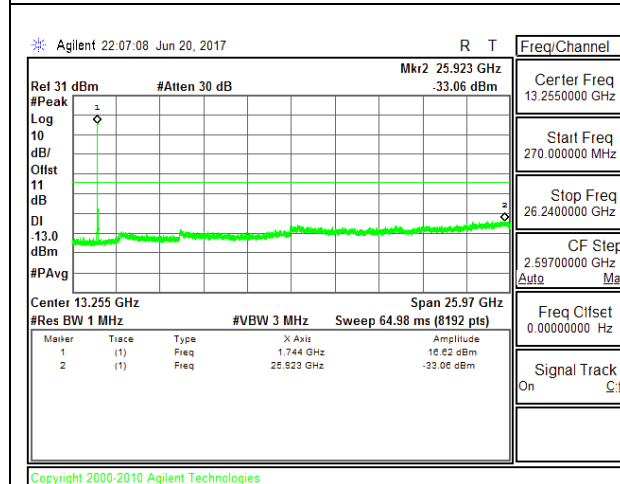
LTE B66 5MHz 16QAM Middle Channel



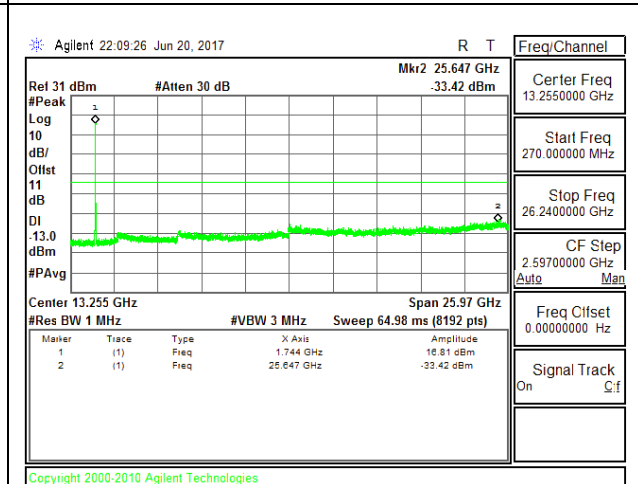
LTE B66 10MHz QPSK Middle Channel



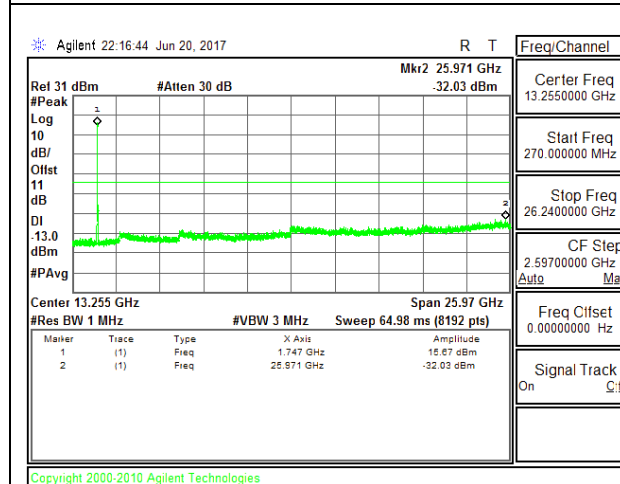
LTE B66 10MHz 16QAM Middle Channel



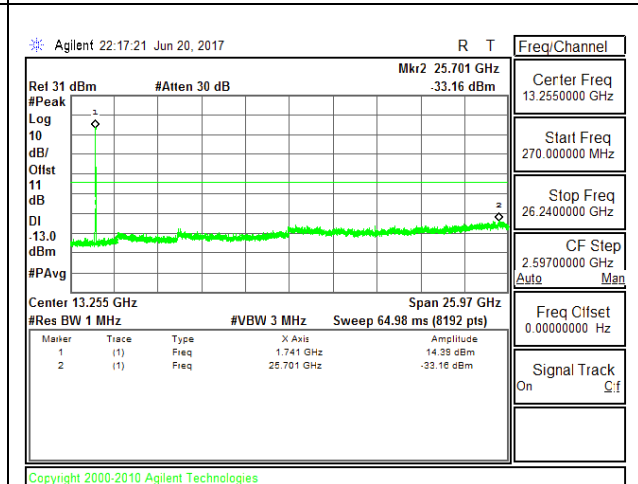
LTE B66 15MHz QPSK Middle Channel



LTE B66 15MHz 16QAM Middle Channel



LTE B66 20MHz QPSK Middle Channel



LTE B66 20MHz 16QAM Middle Channel

## 16. FREQUENCY STABILITY

### RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54 and §90.213

### FCC LIMITS

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

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

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

### Results

Tested By	Oren Stoelting
Date	6/20/17

### **Note(s):**

#### **GSM 850 Band Measured Results**

GSM 850 (Frequency range: 824.2-848.8 MHz) is covered by LTE Band 26 (Frequency range: 814-849 MHz) no testing is necessary due to overlapping frequency range.

#### **GSM 1900 Band Measured Results**

GSM 1900 (Frequency range: 1850.2-1909.8 MHz) is covered by LTE Band 25 (Frequency range: 1850-1915 MHz) no testing is necessary due to overlapping frequency range.

#### **WCDMA Band 5 Measured Results**

WCDMA Band 5 (Frequency range: 826.4-846.6 MHz) is covered by LTE Band 26 (Frequency range: 814-849 MHz) no testing is necessary due to overlapping frequency range.

#### **WCDMA Band 2 Measured Results**

WCDMA Band 2 (Frequency range: 1852.4-1907.6 MHz) is covered by LTE Band 25 (Frequency range: 1850-1915 MHz) no testing is necessary due to overlapping frequency range.

#### **WCDMA Band 4 Measured Results**

WCDMA Band 4 (Frequency range: 1712.4-1752.6 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) no testing is necessary due to overlapping frequency range.

## 16.1. FREQUENCY STABILITY RESULTS

### LTE Band 7

Reference Frequency: LTE Band 7 Mid Channel		2535	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		6337.500	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2534.999987	0.000	2.5
3.80	40	2534.999990	-0.001	2.5
3.80	30	2534.999988	0.000	2.5
<b>3.80</b>	<b>20</b>	<b>2534.999988</b>	<b>0</b>	<b>2.5</b>
3.80	10	2534.999988	0.000	2.5
3.80	0	2534.999988	0.000	2.5
3.80	-10	2535.000015	-0.011	2.5
3.80	-20	2534.999986	0.001	2.5
3.80	-30	2535.000014	-0.010	2.5

Reference Frequency: LTE Band 7 Mid Channel		2535	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		6337.500	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
<b>3.80</b>	<b>20</b>	<b>2534.999988</b>	<b>0</b>	<b>2.5</b>
4.37	20	2535.000012	-0.010	2.5
3.23	20	2534.999989	-0.001	2.5

### LTE Band 12

Reference Frequency: LTE Band 12 Mid Channel		707.5	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		1768.750	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	707.499991	0.001	2.5
3.80	40	707.499990	0.002	2.5
3.80	30	707.499989	0.004	2.5
<b>3.80</b>	<b>20</b>	<b>707.499991</b>	<b>0</b>	<b>2.5</b>
3.80	10	707.499991	0.000	2.5
3.80	0	707.499988	0.005	2.5
3.80	-10	707.499992	-0.001	2.5
3.80	-20	707.499991	0.000	2.5
3.80	-30	707.499992	-0.001	2.5

Reference Frequency: LTE Band 12 Mid Channel		707.5	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		1768.750	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	707.499991	0.000	2.5
4.37	20	707.499992	-0.001	2.5
3.23	20	707.499992	0.000	2.5

**LTE Band 13**

Reference Frequency: LTE Band 13 Mid Channel		782	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		1955.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	781.999993	-0.001	2.5
3.80	40	781.999991	0.001	2.5
3.80	30	781.999993	-0.001	2.5
<b>3.80</b>	<b>20</b>	<b>781.999992</b>	<b>0</b>	<b>2.5</b>
3.80	10	781.999993	-0.002	2.5
3.80	0	781.999991	0.001	2.5
3.80	-10	782.000005	-0.017	2.5
3.80	-20	781.999993	-0.002	2.5
3.80	-30	781.999992	-0.001	2.5

Reference Frequency: LTE Band 13 Mid Channel		782	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		1955.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	781.999992	0.000	2.5
4.37	20	781.999992	-0.001	2.5
3.23	20	781.999992	-0.001	2.5

**LTE Band 25**

Reference Frequency: LTE Band 25 Mid Channel		1882.5	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4706.250	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1882.500016	0.008	2.5
3.80	40	1882.500014	0.009	2.5
3.80	30	1882.500014	0.009	2.5
<b>3.80</b>	<b>20</b>	<b>1882.500031</b>	<b>0</b>	<b>2.5</b>
3.80	10	1882.500011	0.010	2.5
3.80	0	1882.500015	0.008	2.5
3.80	-10	1882.500015	0.008	2.5
3.80	-20	1882.500015	0.008	2.5
3.80	-30	1882.500012	0.010	2.5

Reference Frequency: LTE Band 25 Mid Channel		1882.5	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4706.250	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1882.500031	0.000	2.5
4.37	20	1882.500014	0.009	2.5
3.23	20	1882.500015	0.009	2.5



**LTE Band 26**

Reference Frequency: LTE Band 26 Mid Channel 831.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 2078.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	831.500009	0.003	2.5
3.80	40	831.500009	0.004	2.5
3.80	30	831.500006	0.007	2.5
<b>3.80</b>	<b>20</b>	<b>831.500012</b>	<b>0</b>	<b>2.5</b>
3.80	10	831.500008	0.004	2.5
3.80	0	831.500008	0.005	2.5
3.80	-10	831.500011	0.000	2.5
3.80	-20	831.500008	0.004	2.5
3.80	-30	831.500009	0.003	2.5

Reference Frequency: LTE Band 26 Mid Channel 831.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 2078.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	831.500012	0.000	2.5
4.37	20	831.500009	0.004	2.5
3.23	20	831.500010	0.002	2.5

**LTE Band 66**

Reference Frequency: LTE Band 66 Mid Channel 1745 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4362.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1745.000011	0.001	2.5
3.80	40	1745.000009	0.002	2.5
3.80	30	1745.000009	0.003	2.5
<b>3.80</b>	<b>20</b>	<b>1745.000013</b>	<b>0</b>	<b>2.5</b>
3.80	10	1745.000012	0.001	2.5
3.80	0	1745.000012	0.000	2.5
3.80	-10	1745.000011	0.001	2.5
3.80	-20	1745.000012	0.001	2.5
3.80	-30	1745.000011	0.001	2.5

Reference Frequency: LTE Band 66 Mid Channel 1745 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4362.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1745.000013	0.000	2.5
4.37	20	1745.000014	0.000	2.5
3.23	20	1745.000013	0.000	2.5

## 17. RADIATED TEST RESULTS

### 17.1. FIELD STRENGTH OF SPURIOUS RADIATION

#### RULE PART(S)

FCC: §2.1053, §22.917, §24.238, and §27.53 and §90.691.

#### FCC LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

Part 27: (m)(4) (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.

#### TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### 17.1.1. SPURIOUS RADIATION PLOTS

#### GSM

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/13/2017							
Test Engineer:		37290							
Configuration:		EUT + Charger Chamber C							
Location:		GPRS 850 MHz Harmonics							
Mode:		GPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 824.2</b>									
1648.40	-21.6	V	3.0	37.0	1.0	-57.6	-13.0	-44.6	
2472.60	-14.4	V	3.0	36.4	1.0	-49.8	-13.0	-36.8	
3296.80	-26.6	V	3.0	36.2	1.0	-61.7	-13.0	-48.7	
1648.40	-21.2	H	3.0	37.0	1.0	-57.2	-13.0	-44.2	
2472.60	-17.0	H	3.0	36.4	1.0	-52.4	-13.0	-39.4	
3296.80	-27.8	H	3.0	36.2	1.0	-62.7	-13.0	-49.7	
<b>Mid Ch, 836.6</b>									
1672.20	-19.4	V	3.0	37.0	1.0	-55.4	-13.0	-42.4	
2509.80	-13.8	V	3.0	36.4	1.0	-49.2	-13.0	-36.2	
3346.40	-25.9	V	3.0	36.1	1.0	-61.0	-13.0	-48.0	
1672.20	-20.8	H	3.0	37.0	1.0	-56.8	-13.0	-43.8	
2509.80	-16.2	H	3.0	36.4	1.0	-51.7	-13.0	-38.7	
3346.40	-26.3	H	3.0	36.1	1.0	-61.4	-13.0	-48.4	
<b>High Ch, 848.8</b>									
1697.60	-21.3	V	3.0	37.0	1.0	-57.3	-13.0	-44.3	
2546.40	-9.7	V	3.0	36.4	1.0	-45.1	-13.0	-32.1	
3395.20	-27.1	V	3.0	36.1	1.0	-62.1	-13.0	-49.1	
1697.60	-21.7	H	3.0	37.0	1.0	-57.7	-13.0	-44.7	
2546.40	-10.2	H	3.0	36.4	1.0	-45.6	-13.0	-32.6	
3395.20	-27.6	H	3.0	36.1	1.0	-62.7	-13.0	-49.7	

GSM850 GPRS

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/13/2017							
Test Engineer:		37290							
Configuration:		EUT + Charger Chamber C							
Location:		EGPRS 850 MHz Harmonics							
Mode:		EGPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 824.2</b>									
1648.40	-20.7	V	3.0	37.0	1.0	-56.7	-13.0	-43.7	
2472.60	-10.6	V	3.0	36.4	1.0	-46.1	-13.0	-33.1	
3296.80	-28.0	V	3.0	36.2	1.0	-63.2	-13.0	-50.2	
1648.40	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2472.60	-12.5	H	3.0	36.4	1.0	-47.9	-13.0	-34.9	
3296.80	-26.2	H	3.0	36.2	1.0	-61.3	-13.0	-48.3	
<b>Mid Ch, 836.6</b>									
1672.20	-19.3	V	3.0	37.0	1.0	-55.3	-13.0	-42.3	
2509.80	-9.7	V	3.0	36.4	1.0	-45.1	-13.0	-32.1	
3346.40	-26.5	V	3.0	36.1	1.0	-61.6	-13.0	-48.6	
1672.20	-22.1	H	3.0	37.0	1.0	-58.1	-13.0	-45.1	
2509.80	-16.3	H	3.0	36.4	1.0	-45.7	-13.0	-32.7	
3346.40	-26.2	H	3.0	36.1	1.0	-61.4	-13.0	-48.4	
<b>High Ch, 848.8</b>									
1697.60	-18.8	V	3.0	37.0	1.0	-54.8	-13.0	-41.8	
2546.40	-7.9	V	3.0	36.4	1.0	-43.3	-13.0	-30.3	
3395.20	-26.1	V	3.0	36.1	1.0	-61.1	-13.0	-48.1	
1697.60	-20.6	H	3.0	37.0	1.0	-56.6	-13.0	-43.6	
2546.40	-9.8	H	3.0	36.4	1.0	-45.2	-13.0	-32.2	
3395.20	-26.2	H	3.0	36.1	1.0	-61.2	-13.0	-48.2	

GSM850 EGPRS

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/13/2017							
Test Engineer:		37290							
Configuration:		EUT + Charger Chamber C							
Location:		GPRS 1900 MHz Harmonics							
Mode:		GPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2</b>									
3700.40	-23.9	V	3.0	35.9	1.0	-58.7	-13.0	-45.7	
5550.60	-22.0	V	3.0	35.5	1.0	-56.5	-13.0	-43.5	
7400.80	-20.0	V	3.0	35.7	1.0	-54.7	-13.0	-41.7	
3700.40	-23.7	H	3.0	35.9	1.0	-58.6	-13.0	-45.6	
5550.60	-21.1	H	3.0	35.5	1.0	-56.6	-13.0	-43.6	
7400.80	-18.0	H	3.0	35.7	1.0	-52.7	-13.0	-39.7	
<b>Mid Ch, 1880</b>									
3760.00	-22.2	V	3.0	35.8	1.0	-57.0	-13.0	-44.0	
5640.00	-19.9	V	3.0	35.5	1.0	-53.5	-13.0	-40.5	
7520.00	-18.4	V	3.0	35.7	1.0	-53.1	-13.0	-40.1	
3760.00	-23.3	H	3.0	35.8	1.0	-58.2	-13.0	-45.2	
5640.00	-19.0	H	3.0	35.5	1.0	-53.5	-13.0	-40.5	
7520.00	-18.1	H	3.0	35.7	1.0	-52.8	-13.0	-39.8	
<b>High Ch, 1909.8</b>									
3819.60	-21.7	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
5729.40	-21.4	V	3.0	35.5	1.0	-55.9	-13.0	-42.9	
7639.20	-19.2	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
3819.60	-22.1	H	3.0	35.8	1.0	-56.9	-13.0	-43.9	
5729.40	-20.7	H	3.0	35.5	1.0	-55.2	-13.0	-42.2	
7639.20	-19.4	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	

GSM1900 GPRS

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/13/2017							
Test Engineer:		37290							
Configuration:		EUT + Charger Chamber C							
Location:		EGPRS 1900 MHz Harmonics							
Mode:		EGPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2</b>									
3700.40	-22.7	V	3.0	35.9	1.0	-57.6	-13.0	-44.6	
5550.60	-20.9	V	3.0	35.5	1.0	-55.4	-13.0	-42.4	
7400.80	-18.5	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3700.40	-24.1	H	3.0	35.9	1.0	-59.0	-13.0	-46.0	
5550.60	-18.5	H	3.0	35.5	1.0	-53.0	-13.0	-40.0	
7400.80	-19.7	H	3.0	35.7	1.0	-54.4	-13.0	-41.4	
<b>Mid Ch, 1880</b>									
3760.00	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
5640.00	-19.6	V	3.0	35.5	1.0	-54.1	-13.0	-41.1	
7520.00	-19.5	V	3.0	35.7	1.0	-54.3	-13.0	-41.3	
3760.00	-24.2	H	3.0	35.8	1.0	-59.0	-13.0	-46.0	
5640.00	-20.5	H	3.0	35.5	1.0	-55.0	-13.0	-42.0	
7520.00	-19.3	H	3.0	35.7	1.0	-54.0	-13.0	-41.0	
<b>High Ch, 1909.8</b>									
3819.60	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
5729.40	-21.5	V	3.0	35.5	1.0	-56.0	-13.0	-43.0	
7639.20	-18.7	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
3819.60	-23.0	H	3.0	35.8	1.0	-57.8	-13.0	-44.8	
5729.40	-20.8	H	3.0	35.5	1.0	-55.3	-13.0	-42.3	
7639.20	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	

GSM1900 EGPRS

**WCDMA**

**Compliance Certification Services**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 37290  
 Configuration: EUT + Charger  
 Location: Chamber C  
 Mode: Rel99 Band 2 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1852.4</b>									
3704.80	-24.9	V	3.0	35.9	1.0	-59.7	-13.0	-46.7	
5557.20	-22.8	V	3.0	35.5	1.0	-57.3	-13.0	-44.3	
7409.60	-22.9	V	3.0	35.7	1.0	-57.6	-13.0	-44.6	
3704.80	-24.8	H	3.0	35.9	1.0	-59.7	-13.0	-46.7	
5557.20	-22.2	H	3.0	35.5	1.0	-56.6	-13.0	-43.6	
7409.60	-19.4	H	3.0	35.7	1.0	-54.1	-13.0	-41.1	
<b>Mid Ch, 1880</b>									
3760.00	-25.0	V	3.0	35.8	1.0	-59.8	-13.0	-46.8	
5640.00	-19.5	V	3.0	35.5	1.0	-54.0	-13.0	-41.0	
7520.00	-21.2	V	3.0	35.7	1.0	-56.0	-13.0	-43.0	
3760.00	-25.3	H	3.0	35.8	1.0	-60.1	-13.0	-47.1	
5640.00	-20.3	H	3.0	35.5	1.0	-54.8	-13.0	-41.8	
7520.00	-19.7	H	3.0	35.7	1.0	-54.5	-13.0	-41.5	
<b>High Ch, 1907.5</b>									
3815.20	-24.1	V	3.0	35.8	1.0	-58.9	-13.0	-45.9	
5722.80	-21.5	V	3.0	35.5	1.0	-56.0	-13.0	-43.0	
7630.40	-19.7	V	3.0	35.8	1.0	-54.4	-13.0	-41.4	
3815.20	-25.2	H	3.0	35.8	1.0	-60.0	-13.0	-47.0	
5722.80	-20.2	H	3.0	35.5	1.0	-54.7	-13.0	-41.7	
7630.40	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	

B2 REL99

**Compliance Certification Services**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 37290  
 Configuration: EUT + Charger  
 Location: Chamber C  
 Mode: HSDPA Band 2 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1852.4</b>									
3704.80	-25.1	V	3.0	35.9	1.0	-59.9	-13.0	-46.9	
5557.20	-22.4	V	3.0	35.5	1.0	-56.9	-13.0	-43.9	
7409.60	-20.9	V	3.0	35.7	1.0	-55.7	-13.0	-42.7	
3704.80	-24.6	H	3.0	35.9	1.0	-59.5	-13.0	-46.5	
5557.20	-19.8	H	3.0	35.5	1.0	-54.2	-13.0	-41.2	
7409.60	-18.9	H	3.0	35.7	1.0	-53.6	-13.0	-40.6	
<b>Mid Ch, 1880</b>									
3760.00	-25.1	V	3.0	35.8	1.0	-59.9	-13.0	-46.9	
5640.00	-21.2	V	3.0	35.5	1.0	-55.7	-13.0	-42.7	
7520.00	-19.6	V	3.0	35.7	1.0	-54.4	-13.0	-41.4	
3760.00	-24.4	H	3.0	35.8	1.0	-59.2	-13.0	-46.2	
5640.00	-19.7	H	3.0	35.5	1.0	-54.2	-13.0	-41.2	
7520.00	-19.1	H	3.0	35.7	1.0	-53.9	-13.0	-40.9	
<b>High Ch, 1907.5</b>									
3815.20	-24.2	V	3.0	35.8	1.0	-59.0	-13.0	-46.0	
5722.80	-20.9	V	3.0	35.5	1.0	-55.4	-13.0	-42.4	
7630.40	-21.1	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
3815.20	-21.8	H	3.0	35.8	1.0	-58.6	-13.0	-45.6	
5722.80	-20.1	H	3.0	35.5	1.0	-54.6	-13.0	-41.6	
7630.40	-19.6	H	3.0	35.8	1.0	-54.4	-13.0	-41.4	

B2 HSDPA

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + HS+ Charger  
 Location: Chamber C  
 Mode: Rel99 Band 4 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1712.4MHz</b>									
3424.80	-26.1	V	3.0	36.1	1.0	-60.2	-13.0	-47.2	
5137.20	-19.9	V	3.0	35.4	1.0	-54.3	-13.0	-41.3	
6849.60	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
3424.80	-25.3	H	3.0	36.1	1.0	-60.3	-13.0	-47.3	
5137.20	-20.3	H	3.0	35.4	1.0	-54.7	-13.0	-41.7	
6849.60	-19.1	H	3.0	35.7	1.0	-53.7	-13.0	-40.7	
<b>Mid Ch, 1732.6MHz</b>									
3465.20	-25.0	V	3.0	36.0	1.0	-60.0	-13.0	-47.0	
5197.80	-21.3	V	3.0	35.4	1.0	-55.7	-13.0	-42.7	
6930.40	-20.4	V	3.0	35.7	1.0	-55.1	-13.0	-42.1	
3465.20	-26.7	H	3.0	36.0	1.0	-61.3	-13.0	-48.3	
5197.80	-21.3	H	3.0	35.4	1.0	-55.7	-13.0	-42.7	
6930.40	-19.9	H	3.0	35.7	1.0	-54.6	-13.0	-41.6	
<b>High Ch, 1752.6MHz</b>									
3505.20	-25.4	V	3.0	36.0	1.0	-60.4	-13.0	-47.4	
5257.80	-22.3	V	3.0	35.4	1.0	-56.8	-13.0	-43.8	
7010.40	-20.7	V	3.0	35.7	1.0	-55.3	-13.0	-42.3	
3505.20	-24.9	H	3.0	36.0	1.0	-59.9	-13.0	-46.9	
5257.80	-20.9	H	3.0	35.4	1.0	-55.4	-13.0	-42.4	
7010.40	-19.6	H	3.0	35.7	1.0	-54.3	-13.0	-41.3	

B4 REL99

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + HS+ Charger  
 Location: Chamber C  
 Mode: HSDPA Band 4 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1712.4MHz</b>									
3424.80	-24.9	V	3.0	36.1	1.0	-60.0	-13.0	-47.0	
5137.20	-19.7	V	3.0	35.4	1.0	-54.1	-13.0	-41.1	
6849.60	-19.2	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
3424.80	-25.1	H	3.0	36.1	1.0	-60.2	-13.0	-47.2	
5137.20	-20.1	H	3.0	35.4	1.0	-54.6	-13.0	-41.6	
6849.60	-19.1	H	3.0	35.7	1.0	-53.7	-13.0	-40.7	
<b>Mid Ch, 1732.6MHz</b>									
3465.20	-24.9	V	3.0	36.0	1.0	-60.0	-13.0	-47.0	
5197.80	-21.2	V	3.0	35.4	1.0	-55.7	-13.0	-42.7	
6930.40	-20.3	V	3.0	35.7	1.0	-55.0	-13.0	-42.0	
3465.20	-26.2	H	3.0	36.0	1.0	-61.2	-13.0	-48.2	
5197.80	-21.1	H	3.0	35.4	1.0	-55.6	-13.0	-42.6	
6930.40	-19.9	H	3.0	35.7	1.0	-54.6	-13.0	-41.6	
<b>High Ch, 1752.6MHz</b>									
3505.20	-25.2	V	3.0	36.0	1.0	-60.2	-13.0	-47.2	
5257.80	-22.2	V	3.0	35.4	1.0	-56.6	-13.0	-43.6	
7010.40	-20.5	V	3.0	35.7	1.0	-55.1	-13.0	-42.1	
3505.20	-24.8	H	3.0	36.0	1.0	-59.8	-13.0	-46.8	
5257.80	-20.8	H	3.0	35.4	1.0	-55.2	-13.0	-42.2	
7010.40	-19.4	H	3.0	35.7	1.0	-54.1	-13.0	-41.1	

B4 HSDPA

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/13/2017							
Test Engineer:		37290							
Configuration:		EUT + Charger Chamber C							
Location:		Chamber C							
Mode:		HSDPA Band 5 Harmonics							
F MHz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
2479.20	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3305.60	-24.9	V	3.0	36.1	1.0	-60.9	-13.0	-47.0	
1652.80	-30.7	H	3.0	37.0	1.0	-66.7	-13.0	-53.7	
2479.20	-25.4	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3305.60	-26.9	H	3.0	36.1	1.0	-62.1	-13.0	-49.1	
Mid Ch, 836.6									
1673.20	-31.1	V	3.0	37.0	1.0	-67.1	-13.0	-54.1	
2509.80	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
3346.40	-27.3	V	3.0	36.1	1.0	-62.4	-13.0	-49.4	
1673.20	-30.4	H	3.0	37.0	1.0	-66.4	-13.0	-53.4	
2509.80	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.40	-27.4	H	3.0	36.1	1.0	-62.5	-13.0	-49.5	
High Ch, 846.6									
1693.20	-28.1	V	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2539.80	-20.4	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3386.40	-26.3	V	3.0	36.1	1.0	-61.4	-13.0	-48.4	
1693.20	-31.3	H	3.0	37.0	1.0	-67.3	-13.0	-54.3	
2539.80	-19.2	H	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3386.40	-26.7	H	3.0	36.1	1.0	-61.7	-13.0	-48.7	

B5 REL99

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/13/2017							
Test Engineer:		37290							
Configuration:		EUT + Charger Chamber C							
Location:		Chamber C							
Mode:		HSDPA Band 5 Harmonics							
F MHz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
2479.20	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3305.60	-24.9	V	3.0	36.1	1.0	-60.9	-13.0	-47.0	
1652.80	-30.7	H	3.0	37.0	1.0	-66.7	-13.0	-53.7	
2479.20	-25.4	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3305.60	-26.9	H	3.0	36.1	1.0	-62.1	-13.0	-49.1	
Mid Ch, 836.6									
1673.20	-31.1	V	3.0	37.0	1.0	-67.1	-13.0	-54.1	
2509.80	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
3346.40	-27.3	V	3.0	36.1	1.0	-62.4	-13.0	-49.4	
1673.20	-30.4	H	3.0	37.0	1.0	-66.4	-13.0	-53.4	
2509.80	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.40	-27.4	H	3.0	36.1	1.0	-62.5	-13.0	-49.5	
High Ch, 846.6									
1693.20	-28.1	V	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2539.80	-20.4	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3386.40	-26.3	V	3.0	36.1	1.0	-61.4	-13.0	-48.4	
1693.20	-31.3	H	3.0	37.0	1.0	-67.3	-13.0	-54.3	
2539.80	-19.2	H	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3386.40	-26.7	H	3.0	36.1	1.0	-61.7	-13.0	-48.7	

B5 HSDPA

**LTE Band 7**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 7 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2502.5</b>									
5005.00	-21.5	V	3.0	33.2	1.0	-53.7	-25.0	-28.7	
7507.50	-20.2	V	3.0	32.8	1.0	-52.0	-25.0	-27.0	
10010.00	-20.9	V	3.0	32.8	1.0	-52.6	-25.0	-27.6	
5005.00	-22.9	H	3.0	33.2	1.0	-55.1	-25.0	-30.1	
7507.50	-21.0	H	3.0	32.8	1.0	-52.9	-25.0	-27.9	
10010.00	-21.3	H	3.0	32.8	1.0	-53.1	-25.0	-28.1	
<b>Mid Ch, 2535</b>									
5070.00	-23.2	V	3.0	33.2	1.0	-55.4	-25.0	-30.4	
7605.00	-20.0	V	3.0	32.8	1.0	-51.9	-25.0	-26.9	
10140.00	-20.9	V	3.0	32.7	1.0	-52.6	-25.0	-27.6	
5070.00	-22.4	H	3.0	33.2	1.0	-54.6	-25.0	-29.6	
7605.00	-20.2	H	3.0	32.8	1.0	-52.0	-25.0	-27.0	
10140.00	-22.2	H	3.0	32.7	1.0	-53.8	-25.0	-28.8	
<b>High Ch, 2567.5</b>									
5135.00	-23.4	V	3.0	33.2	1.0	-55.6	-25.0	-30.6	
7702.50	-21.5	V	3.0	32.8	1.0	-53.3	-25.0	-28.3	
10270.00	-22.0	V	3.0	32.6	1.0	-53.5	-25.0	-28.5	
5135.00	-23.4	H	3.0	33.2	1.0	-55.6	-25.0	-30.6	
7702.50	-22.4	H	3.0	32.8	1.0	-54.2	-25.0	-29.2	
10270.00	-23.1	H	3.0	32.6	1.0	-54.7	-25.0	-29.7	

**LTE B7 5MHz QPSK**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 7 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2502.5</b>									
5005.00	-21.9	V	3.0	33.2	1.0	-54.1	-25.0	-29.1	
7507.50	-20.6	V	3.0	32.8	1.0	-52.5	-25.0	-27.5	
10010.00	-21.8	V	3.0	32.8	1.0	-53.5	-25.0	-28.5	
5005.00	-23.6	H	3.0	33.2	1.0	-55.8	-25.0	-30.8	
7507.50	-21.3	H	3.0	32.8	1.0	-53.2	-25.0	-28.2	
10010.00	-21.5	H	3.0	32.8	1.0	-53.3	-25.0	-28.3	
<b>Mid Ch, 2535</b>									
5070.00	-24.0	V	3.0	33.2	1.0	-56.2	-25.0	-31.2	
7605.00	-20.0	V	3.0	32.8	1.0	-51.9	-25.0	-26.9	
10140.00	-21.5	V	3.0	32.7	1.0	-53.1	-25.0	-28.1	
5070.00	-22.9	H	3.0	33.2	1.0	-55.1	-25.0	-30.1	
7605.00	-20.8	H	3.0	32.8	1.0	-52.6	-25.0	-27.6	
10140.00	-23.1	H	3.0	32.7	1.0	-54.7	-25.0	-29.7	
<b>High Ch, 2567.5</b>									
5135.00	-24.3	V	3.0	33.2	1.0	-56.5	-25.0	-31.5	
7702.50	-22.0	V	3.0	32.8	1.0	-53.8	-25.0	-28.8	
10270.00	-22.9	V	3.0	32.6	1.0	-54.5	-25.0	-29.5	
5135.00	-24.1	H	3.0	33.2	1.0	-56.3	-25.0	-31.3	
7702.50	-23.3	H	3.0	32.8	1.0	-55.1	-25.0	-30.1	
10270.00	-23.3	H	3.0	32.6	1.0	-54.9	-25.0	-29.9	

**LTE B7 5MHz 16QAM**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 7 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2505</b>									
5010.00	-21.2	V	3.0	33.2	1.0	-53.5	-25.0	-28.5	
7515.00	-19.4	V	3.0	32.8	1.0	-51.3	-25.0	-26.3	
10020.00	-20.5	V	3.0	32.8	1.0	-52.3	-25.0	-27.3	
5010.00	-22.5	H	3.0	33.2	1.0	-54.7	-25.0	-29.7	
7515.00	-20.6	H	3.0	32.8	1.0	-52.4	-25.0	-27.4	
10020.00	-20.5	H	3.0	32.8	1.0	-52.3	-25.0	-27.3	
<b>Mid Ch, 2535</b>									
5070.00	-22.9	V	3.0	33.2	1.0	-55.1	-25.0	-30.1	
7605.00	-19.2	V	3.0	32.8	1.0	-51.1	-25.0	-26.1	
10140.00	-20.5	V	3.0	32.7	1.0	-52.2	-25.0	-27.2	
5070.00	-21.7	H	3.0	33.2	1.0	-53.5	-25.0	-28.5	
7605.00	-19.2	H	3.0	32.8	1.0	-51.1	-25.0	-26.1	
10140.00	-21.9	H	3.0	32.7	1.0	-53.6	-25.0	-28.6	
<b>High Ch, 2565</b>									
5130.00	-23.0	V	3.0	33.2	1.0	-55.2	-25.0	-30.2	
7695.00	-21.0	V	3.0	32.8	1.0	-52.9	-25.0	-27.9	
10260.00	-21.4	V	3.0	32.6	1.0	-53.0	-25.0	-28.0	
5130.00	-22.5	H	3.0	33.2	1.0	-54.2	-25.0	-29.2	
7695.00	-21.8	H	3.0	32.8	1.0	-53.7	-25.0	-28.7	
10260.00	-23.0	H	3.0	32.6	1.0	-54.6	-25.0	-29.6	

**LTE B7 10MHz QPSK**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 7 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2505</b>									
5010.00	-22.1	V	3.0	33.2	1.0	-54.3	-25.0	-29.3	
7515.00	-19.6	V	3.0	32.8	1.0	-51.4	-25.0	-26.4	
10020.00	-21.3	V	3.0	32.8	1.0	-53.1	-25.0	-28.1	
5010.00	-23.5	H	3.0	33.2	1.0	-55.7	-25.0	-30.7	
7515.00	-21.3	H	3.0	32.8	1.0	-53.2	-25.0	-28.2	
10020.00	-21.3	H	3.0	32.8	1.0	-53.1	-25.0	-28.1	
<b>Mid Ch, 2535</b>									
5070.00	-23.5	V	3.0	33.2	1.0	-55.8	-25.0	-30.8	
7605.00	-19.6	V	3.0	32.8	1.0	-51.5	-25.0	-26.5	
10140.00	-21.2	V	3.0	32.7	1.0	-52.9	-25.0	-27.9	
5070.00	-22.6	H	3.0	33.2	1.0	-54.8	-25.0	-29.8	
7605.00	-20.1	H	3.0	32.8	1.0	-51.9	-25.0	-26.9	
10140.00	-22.8	H	3.0	32.7	1.0	-54.5	-25.0	-29.5	
<b>High Ch, 2565</b>									
5130.00	-25.3	V	3.0	33.2	1.0	-55.5	-25.0	-30.5	
7695.00	-21.7	V	3.0	32.8	1.0	-53.6	-25.0	-28.6	
10260.00	-22.0	V	3.0	32.6	1.0	-53.6	-25.0	-28.6	
5130.00	-22.8	H	3.0	33.2	1.0	-55.0	-25.0	-30.0	
7695.00	-22.2	H	3.0	32.8	1.0	-54.0	-25.0	-29.0	
10260.00	-23.9	H	3.0	32.6	1.0	-55.5	-25.0	-30.5	

**LTE B7 10MHz 16QAM**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 7 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2507.5</b>									
5015.00	-21.5	V	3.0	33.2	1.0	-53.7	-25.0	-28.7	
7522.50	-19.7	V	3.0	32.8	1.0	-51.6	-25.0	-26.6	
10030.00	-21.3	V	3.0	32.8	1.0	-53.1	-25.0	-28.1	
5015.00	-23.3	H	3.0	33.2	1.0	-55.5	-25.0	-30.5	
7522.50	-21.4	H	3.0	32.8	1.0	-53.2	-25.0	-28.2	
10030.00	-21.0	H	3.0	32.8	1.0	-52.7	-25.0	-27.7	
<b>Mid Ch, 2535</b>									
5070.00	-23.1	V	3.0	33.2	1.0	-55.4	-25.0	-30.4	
7605.00	-20.2	V	3.0	32.8	1.0	-52.0	-25.0	-27.0	
10140.00	-20.6	V	3.0	32.7	1.0	-52.2	-25.0	-27.2	
5070.00	-22.4	H	3.0	33.2	1.0	-54.6	-25.0	-29.6	
7605.00	-19.8	H	3.0	32.8	1.0	-51.4	-25.0	-26.4	
10140.00	-22.3	H	3.0	32.7	1.0	-54.0	-25.0	-29.0	
<b>High Ch, 2562.5</b>									
5125.00	-23.3	V	3.0	33.2	1.0	-55.5	-25.0	-30.5	
7687.50	-22.0	V	3.0	32.8	1.0	-53.8	-25.0	-28.8	
10250.00	-21.7	V	3.0	32.6	1.0	-53.3	-25.0	-28.3	
5125.00	-23.4	H	3.0	33.2	1.0	-55.6	-25.0	-30.6	
7687.50	-22.2	H	3.0	32.8	1.0	-54.0	-25.0	-29.0	
10250.00	-23.1	H	3.0	32.6	1.0	-54.7	-25.0	-29.7	

**LTE B7 15MHz QPSK**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 37290  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 7 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2507.5</b>									
5015.00	-21.5	V	3.0	33.2	1.0	-53.8	-25.0	-28.8	
7522.50	-19.4	V	3.0	32.8	1.0	-51.3	-25.0	-26.3	
10030.00	-20.8	V	3.0	32.8	1.0	-52.6	-25.0	-27.6	
5015.00	-22.8	H	3.0	33.2	1.0	-55.0	-25.0	-30.0	
7522.50	-20.7	H	3.0	32.8	1.0	-52.6	-25.0	-27.6	
10030.00	-21.4	H	3.0	32.8	1.0	-53.2	-25.0	-28.2	
<b>Mid Ch, 2535</b>									
5070.00	-23.0	V	3.0	33.2	1.0	-55.2	-25.0	-30.2	
7605.00	-19.3	V	3.0	32.8	1.0	-51.2	-25.0	-26.2	
10140.00	-21.4	V	3.0	32.7	1.0	-52.1	-25.0	-27.1	
5070.00	-21.9	H	3.0	33.2	1.0	-54.2	-25.0	-29.2	
7605.00	-20.1	H	3.0	32.8	1.0	-52.0	-25.0	-27.0	
10140.00	-22.0	H	3.0	32.7	1.0	-53.6	-25.0	-28.6	
<b>High Ch, 2562.5</b>									
5125.00	-23.3	V	3.0	33.2	1.0	-55.5	-25.0	-30.5	
7687.50	-21.2	V	3.0	32.8	1.0	-53.0	-25.0	-28.0	
10250.00	-22.3	V	3.0	32.6	1.0	-53.9	-25.0	-28.9	
5125.00	-23.4	H	3.0	33.2	1.0	-55.6	-25.0	-30.6	
7687.50	-22.6	H	3.0	32.8	1.0	-54.4	-25.0	-29.4	
10250.00	-23.2	H	3.0	32.6	1.0	-54.9	-25.0	-29.9	

**LTE B7 15MHz 16QAM**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/9/2017							
Test Engineer:		43574 JS							
Configuration:		EUT + AC + Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth							
f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 2510									
5020.00	-22.2	V	3.0	33.2	1.0	-54.4	-25.0	-29.4	
7530.00	-20.8	V	3.0	32.8	1.0	-52.7	-25.0	-27.7	
10040.00	-21.4	V	3.0	32.7	1.0	-53.2	-25.0	-28.2	
5020.00	-23.0	H	3.0	33.2	1.0	-55.3	-25.0	-30.3	
7530.00	-21.6	H	3.0	32.8	1.0	-53.5	-25.0	-28.5	
10040.00	-22.0	H	3.0	32.7	1.0	-53.7	-25.0	-28.7	
Mid Ch, 2535									
5070.00	-23.4	V	3.0	33.2	1.0	-55.6	-25.0	-30.6	
7605.00	-20.7	V	3.0	32.8	1.0	-52.6	-25.0	-27.6	
10140.00	-21.1	V	3.0	32.7	1.0	-52.8	-25.0	-27.8	
5070.00	-23.2	H	3.0	33.2	1.0	-55.4	-25.0	-30.4	
7605.00	-20.5	H	3.0	32.8	1.0	-52.4	-25.0	-27.4	
10140.00	-22.2	H	3.0	32.7	1.0	-54.0	-25.0	-29.0	
High Ch, 2560									
5120.00	-24.2	V	3.0	33.2	1.0	-56.4	-25.0	-31.4	
7680.00	-22.0	V	3.0	32.8	1.0	-53.8	-25.0	-28.8	
10240.00	-22.7	V	3.0	32.6	1.0	-54.3	-25.0	-29.3	
5120.00	-23.5	H	3.0	33.2	1.0	-55.7	-25.0	-30.7	
7680.00	-22.4	H	3.0	32.8	1.0	-54.3	-25.0	-29.3	
10240.00	-23.3	H	3.0	32.6	1.0	-55.0	-25.0	-30.0	

LTE B7 20MHz QPSK

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		SOMC							
Project #:		11740661							
Date:		6/9/2017							
Test Engineer:		43574 JS							
Configuration:		EUT + AC + Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth							
f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 2510									
5020.00	-21.0	V	3.0	33.2	1.0	-53.2	-25.0	-28.2	
7530.00	-18.9	V	3.0	32.8	1.0	-50.7	-25.0	-25.7	
10040.00	-19.7	V	3.0	32.7	1.0	-51.4	-25.0	-26.4	
5020.00	-22.0	H	3.0	33.2	1.0	-54.3	-25.0	-29.3	
7530.00	-20.0	H	3.0	32.8	1.0	-51.8	-25.0	-26.8	
10040.00	-20.0	H	3.0	32.7	1.0	-51.7	-25.0	-26.7	
Mid Ch, 2535									
5070.00	-22.2	V	3.0	33.2	1.0	-54.4	-25.0	-29.4	
7605.00	-18.3	V	3.0	32.8	1.0	-50.2	-25.0	-25.2	
10140.00	-19.2	V	3.0	32.7	1.0	-50.9	-25.0	-25.9	
5070.00	-21.8	H	3.0	33.2	1.0	-54.1	-25.0	-29.1	
7605.00	-18.9	H	3.0	32.8	1.0	-50.8	-25.0	-25.8	
10140.00	-19.6	H	3.0	32.7	1.0	-51.3	-25.0	-26.3	
High Ch, 2560									
5120.00	-22.9	V	3.0	33.2	1.0	-55.1	-25.0	-30.1	
7680.00	-20.1	V	3.0	32.8	1.0	-51.9	-25.0	-26.9	
10240.00	-21.0	V	3.0	32.6	1.0	-52.6	-25.0	-27.6	
5120.00	-22.1	H	3.0	33.2	1.0	-54.3	-25.0	-29.3	
7680.00	-21.0	H	3.0	32.8	1.0	-52.8	-25.0	-27.8	
10240.00	-21.0	H	3.0	32.6	1.0	-52.6	-25.0	-27.6	

LTE B7 20MHz 16QAM



**LTE Band 12**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 12 Harmonics, 14MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 699.7</b>									
1399.40	-22.6	V	3.0	36.5	1.0	-58.1	-13.0	-45.1	
2099.10	-24.4	V	3.0	35.6	1.0	-59.0	-13.0	-46.0	
2798.80	-23.9	V	3.0	34.7	1.0	-57.7	-13.0	-44.7	
1399.40	-18.3	H	3.0	36.5	1.0	-57.8	-13.0	-40.8	
2099.10	-24.7	H	3.0	35.6	1.0	-59.4	-13.0	-46.4	
2798.80	-24.6	H	3.0	34.7	1.0	-58.3	-13.0	-45.3	
<b>Mid Ch, 707.5</b>									
1415.00	-18.5	V	3.0	36.5	1.0	-54.0	-13.0	-41.0	
2122.50	-23.2	V	3.0	35.6	1.0	-57.8	-13.0	-44.8	
2830.00	-24.5	V	3.0	34.7	1.0	-58.2	-13.0	-45.2	
1415.00	-14.6	H	3.0	36.5	1.0	-50.1	-13.0	-37.1	
2122.50	-24.4	H	3.0	35.6	1.0	-59.0	-13.0	-46.0	
2830.00	-24.0	H	3.0	34.7	1.0	-57.7	-13.0	-44.7	
<b>High Ch, 715.3</b>									
1430.60	-14.5	V	3.0	36.5	1.0	-50.0	-13.0	-37.0	
2145.90	-17.5	V	3.0	35.6	1.0	-52.1	-13.0	-39.1	
2861.20	-24.0	V	3.0	34.7	1.0	-57.7	-13.0	-44.7	
1430.60	-10.9	H	3.0	36.5	1.0	-46.4	-13.0	-33.4	
2145.90	-24.6	H	3.0	35.6	1.0	-59.2	-13.0	-46.2	
2861.20	-24.4	H	3.0	34.7	1.0	-58.0	-13.0	-45.0	

LTE B12 1.4MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 12 Harmonics, 14MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 699.7</b>									
1399.40	-22.5	V	3.0	36.5	1.0	-58.0	-13.0	-45.0	
2099.10	-23.9	V	3.0	35.6	1.0	-58.6	-13.0	-45.6	
2798.80	-23.8	V	3.0	34.7	1.0	-57.5	-13.0	-44.5	
1399.40	-17.7	H	3.0	36.5	1.0	-53.2	-13.0	-40.2	
2099.10	-25.9	H	3.0	35.6	1.0	-60.5	-13.0	-47.5	
2798.80	-24.8	H	3.0	34.7	1.0	-58.5	-13.0	-45.5	
<b>Mid Ch, 707.5</b>									
1415.00	-18.3	V	3.0	36.5	1.0	-53.8	-13.0	-40.8	
2122.50	-21.3	V	3.0	35.6	1.0	-55.9	-13.0	-42.9	
2830.00	-24.7	V	3.0	34.7	1.0	-58.4	-13.0	-45.4	
1415.00	-15.0	H	3.0	36.5	1.0	-50.6	-13.0	-37.6	
2122.50	-24.0	H	3.0	35.6	1.0	-58.6	-13.0	-45.6	
2830.00	-22.8	H	3.0	34.7	1.0	-56.5	-13.0	-43.5	
<b>High Ch, 715.3</b>									
1430.60	-13.9	V	3.0	36.5	1.0	-49.4	-13.0	-36.4	
2145.90	-16.6	V	3.0	35.6	1.0	-51.2	-13.0	-38.2	
2861.20	-23.8	V	3.0	34.7	1.0	-57.5	-13.0	-44.5	
1430.60	-9.7	H	3.0	36.5	1.0	-45.2	-13.0	-32.2	
2145.90	-19.5	H	3.0	35.6	1.0	-54.1	-13.0	-41.1	
2861.20	-24.7	H	3.0	34.7	1.0	-58.4	-13.0	-45.4	

LTE B12 1.4MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 12 Harmonics, 3MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 700.5</b>									
1401.00	-20.1	V	3.0	36.5	1.0	-55.6	-13.0	-42.6	
2101.50	-24.8	V	3.0	35.6	1.0	-59.5	-13.0	-46.5	
2802.00	-24.4	V	3.0	34.7	1.0	-58.1	-13.0	-45.1	
1401.00	-23.3	H	3.0	36.5	1.0	-58.8	-13.0	-45.8	
2101.50	-25.1	H	3.0	35.6	1.0	-59.8	-13.0	-46.8	
2802.00	-24.6	H	3.0	34.7	1.0	-58.3	-13.0	-45.3	
<b>Mid Ch, 707.5</b>									
1415.00	-19.3	V	3.0	36.5	1.0	-54.8	-13.0	-41.8	
2122.50	-23.2	V	3.0	35.6	1.0	-57.8	-13.0	-44.8	
2830.00	-24.2	V	3.0	34.7	1.0	-57.9	-13.0	-44.9	
1415.00	-23.5	H	3.0	36.5	1.0	-59.0	-13.0	-46.0	
2122.50	-24.0	H	3.0	35.6	1.0	-58.6	-13.0	-45.6	
2830.00	-19.9	H	3.0	34.7	1.0	-53.6	-13.0	-40.6	
<b>High Ch, 714.5</b>									
1429.00	-14.8	V	3.0	36.5	1.0	-50.3	-13.0	-37.3	
2143.50	-22.3	V	3.0	35.6	1.0	-56.8	-13.0	-43.8	
2858.00	-23.7	V	3.0	34.7	1.0	-57.3	-13.0	-44.3	
1429.00	-15.8	H	3.0	36.5	1.0	-51.4	-13.0	-38.4	
2143.50	-25.1	H	3.0	35.6	1.0	-59.7	-13.0	-46.7	
2858.00	-25.0	H	3.0	34.7	1.0	-58.7	-13.0	-45.7	

LTE B12 3MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 12 Harmonics, 3MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 700.5</b>									
1401.00	-20.0	V	3.0	36.5	1.0	-55.5	-13.0	-42.5	
2101.50	-24.5	V	3.0	35.6	1.0	-59.2	-13.0	-46.2	
2802.00	-24.4	V	3.0	34.7	1.0	-58.2	-13.0	-45.2	
1401.00	-22.3	H	3.0	36.5	1.0	-57.9	-13.0	-44.9	
2101.50	-25.2	H	3.0	35.6	1.0	-59.9	-13.0	-46.9	
2802.00	-24.8	H	3.0	34.7	1.0	-58.5	-13.0	-45.5	
<b>Mid Ch, 707.5</b>									
1415.00	-19.5	V	3.0	36.5	1.0	-55.0	-13.0	-42.0	
2122.50	-21.0	V	3.0	35.6	1.0	-55.6	-13.0	-42.6	
2830.00	-22.2	V	3.0	34.7	1.0	-55.8	-13.0	-42.8	
1415.00	-17.7	H	3.0	36.5	1.0	-53.2	-13.0	-40.2	
2122.50	-23.4	H	3.0	35.6	1.0	-58.0	-13.0	-45.0	
2830.00	-24.3	H	3.0	34.7	1.0	-58.0	-13.0	-45.0	
<b>High Ch, 714.5</b>									
1429.00	-14.4	V	3.0	36.5	1.0	-50.0	-13.0	-37.0	
2143.50	-22.8	V	3.0	35.6	1.0	-57.4	-13.0	-44.4	
2858.00	-24.5	V	3.0	34.7	1.0	-58.1	-13.0	-45.1	
1429.00	-15.8	H	3.0	36.5	1.0	-51.3	-13.0	-38.3	
2143.50	-25.0	H	3.0	35.6	1.0	-59.5	-13.0	-46.5	
2858.00	-24.6	H	3.0	34.7	1.0	-58.3	-13.0	-45.3	

LTE B12 3MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 12 Harmonics, 5MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 701.5</b>									
1403.00	-18.2	V	3.0	36.5	1.0	-53.8	-13.0	-40.8	
2104.50	-23.9	V	3.0	35.6	1.0	-58.2	-13.0	-45.2	
2806.00	-24.1	V	3.0	34.7	1.0	-57.8	-13.0	-44.8	
1403.00	-30.6	H	3.0	36.5	1.0	-66.1	-13.0	-53.1	
2104.50	-24.8	H	3.0	35.6	1.0	-59.4	-13.0	-46.4	
2806.00	-24.7	H	3.0	34.7	1.0	-58.4	-13.0	-45.4	
<b>Mid Ch, 707.5</b>									
1415.00	-19.2	V	3.0	36.5	1.0	-54.7	-13.0	-41.7	
2122.50	-22.4	V	3.0	35.6	1.0	-57.0	-13.0	-44.0	
2830.00	-19.9	V	3.0	34.7	1.0	-55.6	-13.0	-42.6	
1415.00	-30.3	H	3.0	36.5	1.0	-65.9	-13.0	-52.9	
2122.50	-25.5	H	3.0	35.6	1.0	-60.1	-13.0	-47.1	
2830.00	-25.0	H	3.0	34.7	1.0	-58.7	-13.0	-45.7	
<b>High Ch, 713.5</b>									
1427.00	-14.7	V	3.0	36.5	1.0	-50.2	-13.0	-37.2	
2140.50	-21.8	V	3.0	35.6	1.0	-56.4	-13.0	-43.4	
2854.00	-23.7	V	3.0	34.7	1.0	-57.4	-13.0	-44.4	
1427.00	-30.1	H	3.0	36.5	1.0	-65.6	-13.0	-52.6	
2140.50	-23.1	H	3.0	35.6	1.0	-57.6	-13.0	-44.6	
2854.00	-25.1	H	3.0	34.7	1.0	-58.8	-13.0	-45.8	

LTE B12 5MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 12 Harmonics, 5MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 701.5</b>									
1403.00	-17.8	V	3.0	36.5	1.0	-53.3	-13.0	-40.3	
2104.50	-23.3	V	3.0	35.6	1.0	-58.0	-13.0	-45.0	
2806.00	-24.6	V	3.0	34.7	1.0	-58.3	-13.0	-45.3	
1403.00	-30.0	H	3.0	36.5	1.0	-65.5	-13.0	-52.5	
2104.50	-24.7	H	3.0	35.6	1.0	-59.3	-13.0	-46.3	
2806.00	-24.6	H	3.0	34.7	1.0	-58.3	-13.0	-45.3	
<b>Mid Ch, 707.5</b>									
1415.00	-19.2	V	3.0	36.5	1.0	-54.7	-13.0	-41.7	
2122.50	-22.8	V	3.0	35.6	1.0	-57.4	-13.0	-44.4	
2830.00	-22.2	V	3.0	34.7	1.0	-55.9	-13.0	-42.9	
1415.00	-29.7	H	3.0	36.5	1.0	-65.2	-13.0	-52.2	
2122.50	-23.3	H	3.0	35.6	1.0	-57.9	-13.0	-44.9	
2830.00	-24.0	H	3.0	34.7	1.0	-57.7	-13.0	-44.7	
<b>High Ch, 713.5</b>									
1427.00	-12.1	V	3.0	36.5	1.0	-47.6	-13.0	-34.6	
2140.50	-21.4	V	3.0	35.6	1.0	-56.0	-13.0	-43.0	
2854.00	-24.5	V	3.0	34.7	1.0	-58.1	-13.0	-45.1	
1427.00	-29.8	H	3.0	36.5	1.0	-65.4	-13.0	-52.4	
2140.50	-23.9	H	3.0	35.6	1.0	-58.5	-13.0	-45.5	
2854.00	-25.1	H	3.0	34.7	1.0	-58.7	-13.0	-45.7	

LTE B12 5MHz 16QAM



**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/9/2017  
**Test Engineer:** 43574 JS  
**Configuration:** EUT + AC + Headset  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 12 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (dV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 704</b>									
1408.00	-32.7	V	3.0	36.5	1.0	-67.7	-13.0	-54.7	
2112.00	-25.7	V	3.0	35.6	1.0	-60.4	-13.0	-47.4	
2816.00	-27.5	V	3.0	34.7	1.0	-61.6	-13.0	-48.6	
1408.00	-33.4	H	3.0	36.5	1.0	-68.9	-13.0	-55.9	
2112.00	-26.7	H	3.0	35.6	1.0	-61.3	-13.0	-48.3	
2816.00	-29.6	H	3.0	34.7	1.0	-63.3	-13.0	-50.3	
<b>Mid Ch, 707.5</b>									
1415.00	-32.3	V	3.0	36.5	1.0	-67.9	-13.0	-54.9	
2122.50	-25.8	V	3.0	35.6	1.0	-60.4	-13.0	-47.4	
2830.00	-27.7	V	3.0	34.7	1.0	-61.4	-13.0	-48.4	
1415.00	-33.4	H	3.0	36.5	1.0	-68.9	-13.0	-55.9	
2122.50	-26.4	H	3.0	35.6	1.0	-61.0	-13.0	-48.0	
2830.00	-29.3	H	3.0	34.7	1.0	-63.0	-13.0	-50.0	
<b>High Ch, 711</b>									
1422.00	-32.7	V	3.0	36.5	1.0	-68.2	-13.0	-55.2	
2133.00	-25.7	V	3.0	35.6	1.0	-60.2	-13.0	-47.2	
2844.00	-27.1	V	3.0	34.7	1.0	-60.8	-13.0	-47.8	
1422.00	-33.5	H	3.0	36.5	1.0	-69.1	-13.0	-56.1	
2133.00	-26.0	H	3.0	35.6	1.0	-60.6	-13.0	-47.6	
2844.00	-28.8	H	3.0	34.7	1.0	-62.5	-13.0	-49.5	

**LTE B12 10MHz QPSK**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/9/2017  
**Test Engineer:** 43574 JS  
**Configuration:** EUT + AC + Headset  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 12 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (dV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 704</b>									
1408.00	-32.7	V	3.0	36.5	1.0	-68.2	-13.0	-55.2	
2112.00	-25.8	V	3.0	35.6	1.0	-60.4	-13.0	-47.4	
2816.00	-26.9	V	3.0	34.7	1.0	-60.6	-13.0	-47.6	
1408.00	-32.3	H	3.0	36.5	1.0	-67.8	-13.0	-54.8	
2112.00	-27.0	H	3.0	35.6	1.0	-61.7	-13.0	-48.7	
2816.00	-29.4	H	3.0	34.7	1.0	-63.1	-13.0	-50.1	
<b>Mid Ch, 707.5</b>									
1415.00	-32.8	V	3.0	36.5	1.0	-68.3	-13.0	-55.3	
2122.50	-26.5	V	3.0	35.6	1.0	-61.1	-13.0	-48.1	
2830.00	-27.2	V	3.0	34.7	1.0	-60.9	-13.0	-47.9	
1415.00	-33.7	H	3.0	36.5	1.0	-69.2	-13.0	-56.2	
2122.50	-26.8	H	3.0	35.6	1.0	-61.4	-13.0	-48.4	
2830.00	-28.9	H	3.0	34.7	1.0	-62.6	-13.0	-49.6	
<b>High Ch, 711</b>									
1422.00	-32.9	V	3.0	36.5	1.0	-68.4	-13.0	-55.4	
2133.00	-25.9	V	3.0	35.6	1.0	-60.5	-13.0	-47.5	
2844.00	-26.8	V	3.0	34.7	1.0	-60.5	-13.0	-47.5	
1422.00	-33.9	H	3.0	36.5	1.0	-69.4	-13.0	-56.4	
2133.00	-26.4	H	3.0	35.6	1.0	-60.9	-13.0	-47.9	
2844.00	-28.8	H	3.0	34.7	1.0	-62.5	-13.0	-49.5	

**LTE B12 10MHz 16QAM**

**LTE Band 13**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		SOMC								
Project #:		11740661								
Date:		6/14/2017								
Test Engineer:		43575 OS								
Configuration:		EUT + AC + Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth								
F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 773.5										
1559.00	-27.8	V	3.0	36.5	1.0	-63.3	-13.0	-50.3		
2338.50	-23.5	V	3.0	35.2	1.0	-57.7	-13.0	-44.7		
3118.00	-23.4	V	3.0	34.5	1.0	-56.8	-13.0	-43.8		
1559.00	-17.0	H	3.0	36.5	1.0	-52.5	-13.0	-39.5		
2338.50	-23.2	H	3.0	35.2	1.0	-57.5	-13.0	-44.5		
3118.00	-24.0	H	3.0	34.5	1.0	-57.4	-13.0	-44.4		
Mid Ch, 782										
1564.00	-27.4	V	3.0	36.5	1.0	-62.9	-13.0	-49.9		
2346.00	-22.7	V	3.0	35.2	1.0	-56.9	-13.0	-43.9		
3128.00	-23.3	V	3.0	34.4	1.0	-56.7	-13.0	-43.7		
1564.00	-14.7	H	3.0	36.5	1.0	-50.2	-13.0	-37.2		
2346.00	-23.3	H	3.0	35.2	1.0	-57.6	-13.0	-44.6		
3128.00	-24.1	H	3.0	34.4	1.0	-57.5	-13.0	-44.5		
High Ch, 784.5										
1569.00	-26.7	V	3.0	36.5	1.0	-62.2	-13.0	-49.2		
2353.50	-24.0	V	3.0	35.2	1.0	-58.2	-13.0	-45.2		
3138.00	-22.9	V	3.0	34.4	1.0	-56.4	-13.0	-43.4		
1569.00	-15.6	H	3.0	36.5	1.0	-51.1	-13.0	-38.1		
2353.50	-24.8	H	3.0	35.2	1.0	-59.0	-13.0	-46.0		
3138.00	-23.5	H	3.0	34.4	1.0	-57.0	-13.0	-44.0		

**LTE B13 5MHz QPSK**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		SOMC								
Project #:		11740661								
Date:		6/14/2017								
Test Engineer:		43575 OS								
Configuration:		EUT + AC + Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 13 Harmonics, 5MHz Bandwidth								
F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 773.5										
1559.00	-28.7	V	3.0	36.5	1.0	-64.2	-13.0	-51.2		
2338.50	-23.1	V	3.0	35.2	1.0	-57.3	-13.0	-44.3		
3118.00	-23.5	V	3.0	34.5	1.0	-57.0	-13.0	-44.0		
1559.00	-17.3	H	3.0	36.5	1.0	-52.8	-13.0	-39.8		
2338.50	-24.1	H	3.0	35.2	1.0	-58.3	-13.0	-45.3		
3118.00	-24.1	H	3.0	34.5	1.0	-57.5	-13.0	-44.5		
Mid Ch, 782										
1564.00	-26.9	V	3.0	36.5	1.0	-62.4	-13.0	-49.4		
2346.00	-23.7	V	3.0	35.2	1.0	-57.9	-13.0	-44.9		
3128.00	-23.6	V	3.0	34.4	1.0	-57.0	-13.0	-44.0		
1564.00	-15.0	H	3.0	36.5	1.0	-50.5	-13.0	-37.5		
2346.00	-23.8	H	3.0	35.2	1.0	-58.0	-13.0	-45.0		
3128.00	-24.0	H	3.0	34.4	1.0	-57.5	-13.0	-44.5		
High Ch, 784.5										
1569.00	-26.5	V	3.0	36.5	1.0	-62.0	-13.0	-49.0		
2353.50	-23.3	V	3.0	35.2	1.0	-57.5	-13.0	-44.5		
3138.00	-23.3	V	3.0	34.4	1.0	-56.7	-13.0	-43.7		
1569.00	-15.9	H	3.0	36.5	1.0	-51.4	-13.0	-38.4		
2353.50	-25.6	H	3.0	35.2	1.0	-59.8	-13.0	-46.8		
3138.00	-24.5	H	3.0	34.4	1.0	-57.9	-13.0	-44.9		

**LTE B13 5MHz 16QAM**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		SOMC								
Project #:		11740661								
Date:		6/14/2017								
Test Engineer:		43575 OS								
Configuration:		EUT + AC + Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth								
F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Mid Ch, 782										
1564.00	-30.5	V	3.0	36.5	1.0	-66.0	-13.0	-53.0		
2346.00	-28.7	V	3.0	35.2	1.0	-62.9	-13.0	-49.9		
3128.00	-25.6	V	3.0	34.4	1.0	-59.0	-13.0	-46.0		
1564.00	-30.4	H	3.0	36.5	1.0	-65.9	-13.0	-52.9		
2346.00	-29.2	H	3.0	35.2	1.0	-63.4	-13.0	-50.4		
3128.00	-26.1	H	3.0	34.4	1.0	-59.5	-13.0	-46.5		

**LTE B13 10MHz QPSK**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		SOMC								
Project #:		11740661								
Date:		6/14/2017								
Test Engineer:		43575 OS								
Configuration:		EUT + AC + Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth								
F MHz	SG reading (dBm)	Ant. Pol. (HV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Mid Ch, 782										
1564.00	-30.7	V	3.0	36.5	1.0	-66.2	-13.0	-53.2		
2346.00	-29.1	V	3.0	35.2	1.0	-63.3	-13.0	-50.3		
3128.00	-25.4	V	3.0	34.4	1.0	-58.8	-13.0	-45.8		
1564.00	-30.8	H	3.0	36.5	1.0	-66.3	-13.0	-53.3		
2346.00	-29.6	H	3.0	35.2	1.0	-63.8	-13.0	-50.8		
3128.00	-25.8	H	3.0	34.4	1.0	-59.3	-13.0	-46.3		

**LTE B13 10MHz 16QAM**

**LTE Band 25**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 25 Harmonics, 14MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.7MHz</b>									
3701.40	-19.3	V	3.0	35.9	1.0	-54.2	-13.0	-41.2	
5552.10	-18.5	V	3.0	35.5	1.0	-53.0	-13.0	-40.0	
7402.80	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3701.40	-19.6	H	3.0	35.9	1.0	-54.4	-13.0	-41.4	
5552.10	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7402.80	-14.9	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.4	V	3.0	35.8	1.0	-54.2	-13.0	-41.2	
5647.50	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7530.00	-16.2	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3765.00	-18.2	H	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5647.50	-17.4	H	3.0	35.5	1.0	-51.9	-13.0	-38.9	
7530.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8	
<b>High Ch, 1914.3MHz</b>									
3825.00	-18.6	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5742.90	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3	
7657.20	-15.8	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
3825.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5742.90	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7657.20	-14.6	H	3.0	35.8	1.0	-49.4	-13.0	-36.4	

LTE B25 1.4MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 14MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.7MHz</b>									
3701.40	-19.7	V	3.0	35.9	1.0	-54.6	-13.0	-41.6	
5552.10	-17.9	V	3.0	35.5	1.0	-52.4	-13.0	-39.4	
7402.80	-15.5	V	3.0	35.7	1.0	-50.2	-13.0	-37.2	
3701.40	-19.8	H	3.0	35.9	1.0	-54.6	-13.0	-41.6	
5552.10	-16.7	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7402.80	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.8	V	3.0	35.8	1.0	-54.7	-13.0	-41.7	
5647.50	-18.2	V	3.0	35.5	1.0	-52.7	-13.0	-39.7	
7530.00	-16.4	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3765.00	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
5647.50	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6	
7530.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
<b>High Ch, 1914.3MHz</b>									
3825.00	-18.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5742.90	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
7657.20	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
3825.00	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5742.90	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
7657.20	-14.0	H	3.0	35.8	1.0	-48.7	-13.0	-35.7	

LTE B25 1.4MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 25 Harmonics, 3MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1851.5MHz</b>									
3703.00	-19.7	V	3.0	35.9	1.0	-54.5	-13.0	-41.5	
5554.50	-18.1	V	3.0	35.5	1.0	-52.5	-13.0	-39.5	
7406.00	-16.2	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3703.00	-20.2	H	3.0	35.9	1.0	-55.1	-13.0	-42.1	
5554.50	-18.0	H	3.0	35.5	1.0	-52.5	-13.0	-39.5	
7406.00	-14.8	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5647.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7530.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3765.00	-20.1	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5647.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7530.00	-15.7	H	3.0	35.7	1.0	-50.4	-13.0	-37.4	
<b>High Ch, 1913.5MHz</b>									
3827.00	-19.6	V	3.0	35.8	1.0	-54.4	-13.0	-41.4	
5740.50	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
7654.00	-15.9	V	3.0	35.8	1.0	-50.6	-13.0	-37.6	
3827.00	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0	
5740.50	-17.7	H	3.0	35.5	1.0	-52.2	-13.0	-39.2	
7654.00	-13.7	H	3.0	35.8	1.0	-48.4	-13.0	-35.4	

LTE B25 3MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 3MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1851.5MHz</b>									
3703.00	-20.3	V	3.0	35.9	1.0	-55.1	-13.0	-42.1	
5554.50	-18.5	V	3.0	35.5	1.0	-53.0	-13.0	-40.0	
7406.00	-17.1	V	3.0	35.7	1.0	-51.9	-13.0	-38.9	
3703.00	-20.3	H	3.0	35.9	1.0	-55.1	-13.0	-42.1	
5554.50	-17.0	H	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7406.00	-15.8	H	3.0	35.7	1.0	-50.5	-13.0	-37.5	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0	
5647.50	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3	
7530.00	-15.4	V	3.0	35.7	1.0	-50.2	-13.0	-37.2	
3765.00	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5647.50	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
7530.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
<b>High Ch, 1913.5MHz</b>									
3827.00	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5740.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7654.00	-15.2	V	3.0	35.8	1.0	-50.0	-13.0	-37.0	
3827.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5740.50	-17.7	H	3.0	35.5	1.0	-52.2	-13.0	-39.2	
7654.00	-14.9	H	3.0	35.8	1.0	-49.7	-13.0	-36.7	

LTE B25 3MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 25 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1852.5MHz</b>									
3705.00	-18.8	V	3.0	35.9	1.0	-53.7	-13.0	-40.7	
5557.50	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
7410.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3	
3705.00	-20.5	H	3.0	35.9	1.0	-55.3	-13.0	-42.3	
5557.50	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
7410.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5647.50	-17.1	V	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7530.00	-15.5	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
3765.00	-19.6	H	3.0	35.8	1.0	-54.4	-13.0	-41.4	
5647.50	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
7530.00	-14.8	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
<b>High Ch, 1912.5MHz</b>									
3825.00	-19.3	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5737.50	-18.1	V	3.0	35.5	1.0	-52.6	-13.0	-39.6	
7650.00	-14.5	V	3.0	35.8	1.0	-49.3	-13.0	-36.3	
3825.00	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5737.50	-17.6	H	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7650.00	-13.9	H	3.0	35.8	1.0	-48.7	-13.0	-35.7	

LTE B25 5MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1852.5MHz</b>									
3705.00	-19.3	V	3.0	35.9	1.0	-54.2	-13.0	-41.2	
5557.50	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7410.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3705.00	-19.9	H	3.0	35.9	1.0	-54.7	-13.0	-41.7	
5557.50	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6	
7410.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0	
5647.50	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7530.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3765.00	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5647.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7530.00	-15.0	H	3.0	35.7	1.0	-49.8	-13.0	-36.8	
<b>High Ch, 1912.5MHz</b>									
3825.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5737.50	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3	
7650.00	-14.9	V	3.0	35.8	1.0	-49.7	-13.0	-36.7	
3825.00	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5737.50	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7650.00	-14.0	H	3.0	35.8	1.0	-48.7	-13.0	-35.7	

LTE B25 5MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 25 Harmonics, 10MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1855MHz</b>									
3710.00	-19.4	V	3.0	35.9	1.0	-54.3	-13.0	-41.3	
5965.00	-16.7	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7420.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
3710.00	-19.8	H	3.0	35.9	1.0	-54.6	-13.0	-41.6	
5965.00	-16.9	H	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7420.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.3	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5647.50	-18.1	V	3.0	35.5	1.0	-52.6	-13.0	-39.6	
7530.00	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
3765.00	-19.6	H	3.0	35.8	1.0	-54.4	-13.0	-41.4	
5647.50	-16.8	H	3.0	35.5	1.0	-51.3	-13.0	-38.3	
7530.00	-14.5	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	
<b>High Ch, 1910MHz</b>									
3820.00	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
5730.00	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7640.00	-15.5	V	3.0	35.8	1.0	-50.3	-13.0	-37.3	
3820.00	-18.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5730.00	-18.0	H	3.0	35.5	1.0	-52.5	-13.0	-39.5	
7640.00	-13.9	H	3.0	35.8	1.0	-48.6	-13.0	-35.6	

LTE B25 10MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 10MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1855MHz</b>									
3710.00	-19.1	V	3.0	35.9	1.0	-53.9	-13.0	-40.9	
5965.00	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7420.00	-16.8	V	3.0	35.7	1.0	-51.5	-13.0	-38.5	
3710.00	-20.3	H	3.0	35.9	1.0	-55.2	-13.0	-42.2	
5965.00	-17.6	H	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7420.00	-15.9	H	3.0	35.7	1.0	-50.6	-13.0	-37.6	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.2	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5647.50	-17.9	V	3.0	35.5	1.0	-52.4	-13.0	-39.4	
7530.00	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
3765.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8	
5647.50	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7530.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
<b>High Ch, 1910MHz</b>									
3820.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5730.00	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7640.00	-16.1	V	3.0	35.8	1.0	-49.8	-13.0	-36.8	
3820.00	-18.4	H	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5730.00	-18.0	H	3.0	35.5	1.0	-52.5	-13.0	-39.5	
7640.00	-14.5	H	3.0	35.8	1.0	-49.2	-13.0	-36.2	

LTE B25 10MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 25 Harmonics, 15MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1857.5MHz</b>									
3715.00	-19.9	V	3.0	35.8	1.0	-54.7	-13.0	-41.7	
5972.50	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7430.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3715.00	-19.7	H	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5972.50	-17.0	H	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7430.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5647.50	-17.1	V	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7530.00	-15.8	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
3765.00	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
5647.50	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7530.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
<b>High Ch, 1907.5MHz</b>									
3815.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5722.50	-18.3	V	3.0	35.5	1.0	-52.8	-13.0	-39.8	
7630.00	-15.7	V	3.0	35.8	1.0	-50.9	-13.0	-37.9	
3815.00	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5722.50	-17.2	H	3.0	35.5	1.0	-51.7	-13.0	-38.7	
7630.00	-14.6	H	3.0	35.8	1.0	-49.4	-13.0	-36.4	

LTE B25 15MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 15MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1857.5MHz</b>									
3715.00	-19.6	V	3.0	35.8	1.0	-54.4	-13.0	-41.4	
5972.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1	
7430.00	-17.0	V	3.0	35.7	1.0	-51.7	-13.0	-38.7	
3715.00	-19.6	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5972.50	-17.2	H	3.0	35.5	1.0	-51.7	-13.0	-38.7	
7430.00	-16.3	H	3.0	35.7	1.0	-51.1	-13.0	-38.1	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
5647.50	-18.2	V	3.0	35.5	1.0	-52.7	-13.0	-39.7	
7530.00	-15.2	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3765.00	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
5647.50	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
7530.00	-15.4	H	3.0	35.7	1.0	-50.2	-13.0	-37.2	
<b>High Ch, 1907.5MHz</b>									
3815.00	-19.0	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
5722.50	-18.6	V	3.0	35.5	1.0	-53.1	-13.0	-40.1	
7630.00	-15.8	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
3815.00	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
5722.50	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7630.00	-14.9	H	3.0	35.8	1.0	-49.6	-13.0	-36.6	

LTE B25 15MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/8/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 20MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1860MHz</b>									
3720.00	-19.2	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5980.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
7440.00	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3720.00	-19.7	H	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5980.00	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7440.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.4	V	3.0	35.8	1.0	-54.2	-13.0	-41.2	
5647.50	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7	
7530.00	-15.1	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3765.00	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5647.50	-15.1	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7530.00	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	
<b>High Ch, 1905MHz</b>									
3810.00	-18.5	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5715.00	-18.1	V	3.0	35.5	1.0	-52.6	-13.0	-39.6	
7620.00	-14.9	V	3.0	35.8	1.0	-49.6	-13.0	-36.6	
3810.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5715.00	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7620.00	-13.9	H	3.0	35.8	1.0	-48.7	-13.0	-35.7	

LTE B25 20MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/8/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 25 Harmonics, 20MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1860MHz</b>									
3720.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5980.00	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5	
7440.00	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3720.00	-19.6	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5980.00	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7440.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
<b>Mid Ch, 1882.5MHz</b>									
3765.00	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3	
5647.50	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7	
7530.00	-15.3	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3765.00	-18.3	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
5647.50	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7530.00	-13.8	H	3.0	35.7	1.0	-48.5	-13.0	-35.5	
<b>High Ch, 1905MHz</b>									
3810.00	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0	
5715.00	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6	
7620.00	-15.6	V	3.0	35.8	1.0	-50.4	-13.0	-37.4	
3810.00	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0	
5715.00	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8	
7620.00	-13.9	H	3.0	35.8	1.0	-48.7	-13.0	-35.7	

LTE B25 20MHz 16QAM

**LTE Band 26**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 26 Harmonics, 14MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 814.7</b>									
1629.40	-28.1	V	3.0	36.4	1.0	-63.5	-13.0	-50.5	
2444.10	-25.1	V	3.0	35.0	1.0	-59.1	-13.0	-46.1	
3258.80	-23.1	V	3.0	34.3	1.0	-56.4	-13.0	-43.4	
1629.40	-28.8	H	3.0	36.4	1.0	-64.2	-13.0	-51.2	
2444.10	-25.6	H	3.0	35.0	1.0	-59.7	-13.0	-46.7	
3258.80	-24.1	H	3.0	34.3	1.0	-57.4	-13.0	-44.4	
<b>Mid Ch, 831.5</b>									
1663.00	-23.6	V	3.0	36.3	1.0	-59.0	-13.0	-46.0	
2494.50	-23.1	V	3.0	34.9	1.0	-57.1	-13.0	-44.1	
3326.00	-23.7	V	3.0	34.2	1.0	-57.0	-13.0	-44.0	
1663.00	-26.2	H	3.0	36.3	1.0	-61.5	-13.0	-48.5	
2494.50	-25.1	H	3.0	34.9	1.0	-59.0	-13.0	-46.0	
3326.00	-23.9	H	3.0	34.2	1.0	-57.2	-13.0	-44.2	
<b>High Ch, 848.3</b>									
1696.60	-23.9	V	3.0	36.3	1.0	-59.2	-13.0	-46.2	
2544.90	-23.3	V	3.0	34.9	1.0	-59.2	-13.0	-46.2	
3393.20	-23.3	V	3.0	34.2	1.0	-56.5	-13.0	-43.5	
1696.60	-22.4	H	3.0	36.3	1.0	-57.7	-13.0	-44.7	
2544.90	-22.4	H	3.0	34.9	1.0	-56.3	-13.0	-43.3	
3393.20	-23.4	H	3.0	34.2	1.0	-56.6	-13.0	-43.6	

LTE B26 1.4MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 26 Harmonics, 14MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 814.7</b>									
1629.40	-28.0	V	3.0	36.4	1.0	-63.4	-13.0	-50.4	
2444.10	-25.3	V	3.0	35.0	1.0	-59.3	-13.0	-46.3	
3258.80	-23.0	V	3.0	34.3	1.0	-56.4	-13.0	-43.4	
1629.40	-29.2	H	3.0	36.4	1.0	-64.6	-13.0	-51.6	
2444.10	-25.3	H	3.0	35.0	1.0	-59.4	-13.0	-46.4	
3258.80	-23.8	H	3.0	34.3	1.0	-57.1	-13.0	-44.1	
<b>Mid Ch, 831.5</b>									
1663.00	-24.6	V	3.0	36.3	1.0	-59.9	-13.0	-46.9	
2494.50	-23.6	V	3.0	34.9	1.0	-57.5	-13.0	-44.5	
3326.00	-23.1	V	3.0	34.2	1.0	-56.3	-13.0	-43.3	
1663.00	-26.6	H	3.0	36.3	1.0	-61.9	-13.0	-48.9	
2494.50	-25.5	H	3.0	34.9	1.0	-59.5	-13.0	-46.5	
3326.00	-23.8	H	3.0	34.2	1.0	-57.0	-13.0	-44.0	
<b>High Ch, 848.3</b>									
1696.60	-23.9	V	3.0	36.3	1.0	-59.2	-13.0	-46.2	
2544.90	-23.2	V	3.0	34.9	1.0	-59.1	-13.0	-46.1	
3393.20	-23.7	V	3.0	34.2	1.0	-56.9	-13.0	-43.9	
1696.60	-23.7	H	3.0	36.3	1.0	-59.0	-13.0	-46.0	
2544.90	-22.1	H	3.0	34.9	1.0	-56.0	-13.0	-43.0	
3393.20	-23.7	H	3.0	34.2	1.0	-56.9	-13.0	-43.9	

LTE B26 1.4MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 26 Harmonics, 3MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 815.5</b>									
1631.00	-28.5	V	3.0	36.4	1.0	-63.8	-13.0	-50.8	
2446.50	-22.8	V	3.0	35.0	1.0	-56.8	-13.0	-43.8	
3262.00	-23.3	V	3.0	34.3	1.0	-56.6	-13.0	-43.6	
1631.00	-28.7	H	3.0	36.4	1.0	-64.1	-13.0	-51.1	
2446.50	-24.9	H	3.0	35.0	1.0	-59.9	-13.0	-45.9	
3262.00	-24.2	H	3.0	34.3	1.0	-57.5	-13.0	-44.5	
<b>Mid Ch, 831.5</b>									
1663.00	-27.7	V	3.0	36.3	1.0	-63.1	-13.0	-50.1	
2494.50	-22.9	V	3.0	34.9	1.0	-56.9	-13.0	-43.9	
3326.00	-23.0	V	3.0	34.2	1.0	-56.2	-13.0	-43.2	
1663.00	-27.5	H	3.0	36.3	1.0	-62.8	-13.0	-49.8	
2494.50	-25.8	H	3.0	34.9	1.0	-59.7	-13.0	-46.7	
3326.00	-24.1	H	3.0	34.2	1.0	-57.3	-13.0	-44.3	
<b>High Ch, 847.5</b>									
1695.00	-27.6	V	3.0	36.3	1.0	-62.9	-13.0	-49.9	
2542.50	-17.8	V	3.0	34.9	1.0	-51.7	-13.0	-38.7	
3390.00	-23.1	V	3.0	34.2	1.0	-56.3	-13.0	-43.3	
1695.00	-24.6	H	3.0	36.3	1.0	-60.3	-13.0	-47.3	
2542.50	-24.3	H	3.0	34.9	1.0	-58.2	-13.0	-45.2	
3390.00	-24.1	H	3.0	34.2	1.0	-57.2	-13.0	-44.2	

LTE B26 3MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 26 Harmonics, 3MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 815.5</b>									
1631.00	-28.0	V	3.0	36.4	1.0	-63.4	-13.0	-50.4	
2446.50	-23.4	V	3.0	35.0	1.0	-57.5	-13.0	-44.5	
3262.00	-22.4	V	3.0	34.3	1.0	-55.8	-13.0	-42.8	
1631.00	-27.4	H	3.0	36.4	1.0	-62.8	-13.0	-49.8	
2446.50	-25.3	H	3.0	35.0	1.0	-59.4	-13.0	-46.4	
3262.00	-24.1	H	3.0	34.3	1.0	-57.4	-13.0	-44.4	
<b>Mid Ch, 831.5</b>									
1663.00	-28.2	V	3.0	36.3	1.0	-63.5	-13.0	-50.5	
2494.50	-23.7	V	3.0	34.9	1.0	-57.6	-13.0	-44.6	
3326.00	-23.0	V	3.0	34.2	1.0	-56.2	-13.0	-43.2	
1663.00	-26.1	H	3.0	36.3	1.0	-61.4	-13.0	-48.4	
2494.50	-24.9	H	3.0	34.9	1.0	-58.8	-13.0	-45.8	
3326.00	-23.5	H	3.0	34.2	1.0	-56.7	-13.0	-43.7	
<b>High Ch, 847.5</b>									
1695.00	-27.5	V	3.0	36.3	1.0	-62.8	-13.0	-49.8	
2542.50	-17.7	V	3.0	34.9	1.0	-51.7	-13.0	-38.7	
3390.00	-22.8	V	3.0	34.2	1.0	-56.0	-13.0	-43.0	
1695.00	-24.3	H	3.0	36.3	1.0	-60.3	-13.0	-47.3	
2542.50	-23.4	H	3.0	34.9	1.0	-57.3	-13.0	-44.3	
3390.00	-23.8	H	3.0	34.2	1.0	-57.0	-13.0	-44.0	

LTE B26 3MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 26 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 816.5</b>									
1633.00	-28.6	V	3.0	36.4	1.0	-64.0	-13.0	-51.0	
2449.50	-16.4	V	3.0	35.0	1.0	-50.4	-13.0	-37.4	
3266.00	-23.2	V	3.0	34.3	1.0	-56.5	-13.0	-43.5	
1633.00	-28.8	H	3.0	36.4	1.0	-64.2	-13.0	-51.2	
2449.50	-18.1	H	3.0	35.0	1.0	-52.2	-13.0	-39.2	
3266.00	-23.3	H	3.0	34.3	1.0	-56.6	-13.0	-43.6	
<b>Mid Ch, 831.5</b>									
1663.00	-28.2	V	3.0	36.3	1.0	-63.6	-13.0	-50.6	
2494.50	-18.5	V	3.0	34.9	1.0	-52.4	-13.0	-39.4	
3326.00	-23.4	V	3.0	34.2	1.0	-56.6	-13.0	-43.6	
1663.00	-27.2	H	3.0	36.3	1.0	-62.6	-13.0	-49.6	
2494.50	-15.7	H	3.0	34.9	1.0	-49.6	-13.0	-36.6	
3326.00	-23.1	H	3.0	34.2	1.0	-56.4	-13.0	-43.4	
<b>High Ch, 846.5</b>									
1693.00	-28.4	V	3.0	36.3	1.0	-63.7	-13.0	-50.7	
2539.50	-15.2	V	3.0	34.9	1.0	-49.1	-13.0	-36.1	
3386.00	-23.0	V	3.0	34.2	1.0	-56.2	-13.0	-43.2	
1693.00	-28.7	H	3.0	36.3	1.0	-64.0	-13.0	-51.0	
2539.50	-16.4	H	3.0	34.9	1.0	-50.4	-13.0	-37.4	
3386.00	-23.7	H	3.0	34.2	1.0	-56.9	-13.0	-43.9	

LTE B26 5MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 26 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 816.5</b>									
1633.00	-28.4	V	3.0	36.4	1.0	-63.8	-13.0	-50.8	
2449.50	-16.0	V	3.0	35.0	1.0	-50.0	-13.0	-37.0	
3266.00	-23.3	V	3.0	34.3	1.0	-56.6	-13.0	-43.6	
1633.00	-28.4	H	3.0	36.4	1.0	-63.8	-13.0	-50.8	
2449.50	-17.5	H	3.0	35.0	1.0	-51.5	-13.0	-38.5	
3266.00	-23.7	H	3.0	34.3	1.0	-57.0	-13.0	-44.0	
<b>Mid Ch, 831.5</b>									
1663.00	-28.0	V	3.0	36.3	1.0	-63.4	-13.0	-50.4	
2494.50	-17.3	V	3.0	34.9	1.0	-51.6	-13.0	-38.6	
3326.00	-23.2	V	3.0	34.2	1.0	-56.5	-13.0	-43.5	
1663.00	-26.3	H	3.0	36.3	1.0	-61.3	-13.0	-48.3	
2494.50	-15.7	H	3.0	34.9	1.0	-49.6	-13.0	-36.6	
3326.00	-24.4	H	3.0	34.2	1.0	-57.6	-13.0	-44.6	
<b>High Ch, 846.5</b>									
1693.00	-27.9	V	3.0	36.3	1.0	-63.2	-13.0	-50.2	
2539.50	-15.3	V	3.0	34.9	1.0	-49.2	-13.0	-36.2	
3386.00	-22.8	V	3.0	34.2	1.0	-56.0	-13.0	-43.0	
1693.00	-29.0	H	3.0	36.3	1.0	-64.3	-13.0	-51.3	
2539.50	-12.7	H	3.0	34.9	1.0	-46.6	-13.0	-33.6	
3386.00	-23.8	H	3.0	34.2	1.0	-57.0	-13.0	-44.0	

LTE B26 5MHz 16QAM



**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 26 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 819</b>									
1638.00	-28.6	V	3.0	36.4	1.0	-64.0	-13.0	-51.0	
2457.00	-19.4	V	3.0	35.0	1.0	-53.4	-13.0	-40.4	
3276.00	-23.5	V	3.0	34.3	1.0	-56.8	-13.0	-43.8	
1638.00	-28.8	H	3.0	36.4	1.0	-64.2	-13.0	-51.2	
2457.00	-22.1	H	3.0	35.0	1.0	-56.1	-13.0	-43.1	
3276.00	-24.6	H	3.0	34.3	1.0	-57.9	-13.0	-44.9	
<b>Mid Ch, 831.5</b>									
1663.00	-26.4	V	3.0	36.3	1.0	-61.7	-13.0	-48.7	
2494.50	-17.2	V	3.0	34.9	1.0	-51.1	-13.0	-38.1	
3326.00	-23.3	V	3.0	34.2	1.0	-56.5	-13.0	-43.5	
1663.00	-28.8	H	3.0	36.3	1.0	-64.1	-13.0	-51.1	
2494.50	-16.6	H	3.0	34.9	1.0	-50.5	-13.0	-37.5	
3326.00	-23.6	H	3.0	34.2	1.0	-56.9	-13.0	-43.9	
<b>High Ch, 844</b>									
1688.00	-25.9	V	3.0	36.3	1.0	-61.2	-13.0	-48.2	
2532.00	-25.6	V	3.0	34.9	1.0	-59.5	-13.0	-46.5	
3376.00	-23.6	V	3.0	34.2	1.0	-56.8	-13.0	-43.8	
1688.00	-28.7	H	3.0	36.3	1.0	-64.0	-13.0	-51.0	
2532.00	-15.6	H	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3376.00	-23.0	H	3.0	34.2	1.0	-56.2	-13.0	-43.2	

LTE B26 10MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 26 Harmonics, 10MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 819</b>									
1638.00	-27.7	V	3.0	36.4	1.0	-63.1	-13.0	-50.1	
2457.00	-19.4	V	3.0	35.0	1.0	-53.5	-13.0	-40.5	
3276.00	-23.4	V	3.0	34.3	1.0	-56.7	-13.0	-43.7	
1638.00	-29.6	H	3.0	36.4	1.0	-65.0	-13.0	-52.0	
2457.00	-16.9	H	3.0	35.0	1.0	-50.9	-13.0	-37.9	
3276.00	-24.3	H	3.0	34.3	1.0	-57.6	-13.0	-44.6	
<b>Mid Ch, 831.5</b>									
1663.00	-26.5	V	3.0	36.3	1.0	-61.8	-13.0	-48.8	
2494.50	-17.1	V	3.0	34.9	1.0	-51.1	-13.0	-38.1	
3326.00	-22.9	V	3.0	34.2	1.0	-56.2	-13.0	-43.2	
1663.00	-27.4	H	3.0	36.3	1.0	-62.7	-13.0	-49.7	
2494.50	-15.2	H	3.0	34.9	1.0	-49.1	-13.0	-36.1	
3326.00	-24.0	H	3.0	34.2	1.0	-57.2	-13.0	-44.2	
<b>High Ch, 844</b>									
1688.00	-26.0	V	3.0	36.3	1.0	-61.3	-13.0	-48.3	
2532.00	-25.4	V	3.0	34.9	1.0	-59.3	-13.0	-46.3	
3376.00	-23.1	V	3.0	34.2	1.0	-56.3	-13.0	-43.3	
1688.00	-26.6	H	3.0	36.3	1.0	-63.9	-13.0	-50.9	
2532.00	-12.5	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
3376.00	-23.6	H	3.0	34.2	1.0	-56.8	-13.0	-43.8	

LTE B26 10MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 26 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 831.5</b>									
1663.00	-26.6	V	3.0	36.3	1.0	-61.9	-13.0	-48.9	
2494.50	-17.9	V	3.0	34.9	1.0	-51.9	-13.0	-38.9	
3326.00	-22.9	V	3.0	34.2	1.0	-56.1	-13.0	-43.1	
1663.00	-27.2	H	3.0	36.3	1.0	-62.5	-13.0	-49.5	
2494.50	-14.4	H	3.0	34.9	1.0	-48.3	-13.0	-35.3	
3326.00	-24.2	H	3.0	34.2	1.0	-57.5	-13.0	-44.5	
<b>Mid Ch, 836.5</b>									
1673.00	-25.7	V	3.0	36.3	1.0	-61.0	-13.0	-48.0	
2509.50	-24.7	V	3.0	34.9	1.0	-58.7	-13.0	-45.7	
3346.00	-23.2	V	3.0	34.2	1.0	-56.4	-13.0	-43.4	
1673.00	-25.9	H	3.0	36.3	1.0	-61.2	-13.0	-48.2	
2509.50	-15.2	H	3.0	34.9	1.0	-49.1	-13.0	-36.1	
3346.00	-23.9	H	3.0	34.2	1.0	-57.2	-13.0	-44.2	
<b>High Ch, 841.5</b>									
1683.00	-28.0	V	3.0	36.3	1.0	-63.4	-13.0	-50.4	
2524.50	-25.2	V	3.0	34.9	1.0	-59.1	-13.0	-46.1	
3366.00	-23.6	V	3.0	34.2	1.0	-56.8	-13.0	-43.8	
1683.00	-26.4	H	3.0	36.3	1.0	-61.7	-13.0	-48.7	
2524.50	-15.9	H	3.0	34.9	1.0	-49.8	-13.0	-36.8	
3366.00	-23.9	H	3.0	34.2	1.0	-57.2	-13.0	-44.2	

LTE B26 15MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 26 Harmonics, 15MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 831.5</b>									
1663.00	-27.1	V	3.0	36.3	1.0	-62.5	-13.0	-49.5	
2494.50	-17.7	V	3.0	34.9	1.0	-51.7	-13.0	-38.7	
3326.00	-23.4	V	3.0	34.2	1.0	-56.7	-13.0	-43.7	
1663.00	-26.4	H	3.0	36.3	1.0	-61.8	-13.0	-48.8	
2494.50	-14.8	H	3.0	34.9	1.0	-48.7	-13.0	-35.7	
3326.00	-24.3	H	3.0	34.2	1.0	-57.6	-13.0	-44.6	
<b>Mid Ch, 836.5</b>									
1673.00	-28.2	V	3.0	36.3	1.0	-63.5	-13.0	-50.5	
2509.50	-24.5	V	3.0	34.9	1.0	-58.4	-13.0	-45.4	
3346.00	-23.4	V	3.0	34.2	1.0	-56.6	-13.0	-43.6	
1673.00	-25.8	H	3.0	36.3	1.0	-61.1	-13.0	-48.1	
2509.50	-14.6	H	3.0	34.9	1.0	-48.6	-13.0	-35.6	
3346.00	-24.6	H	3.0	34.2	1.0	-57.8	-13.0	-44.8	
<b>High Ch, 841.5</b>									
1683.00	-27.4	V	3.0	36.3	1.0	-62.7	-13.0	-49.7	
2524.50	-25.7	V	3.0	34.9	1.0	-59.6	-13.0	-46.6	
3366.00	-23.1	V	3.0	34.2	1.0	-56.3	-13.0	-43.3	
1683.00	-26.0	H	3.0	36.3	1.0	-61.3	-13.0	-48.3	
2524.50	-15.4	H	3.0	34.9	1.0	-49.3	-13.0	-36.3	
3366.00	-24.0	H	3.0	34.2	1.0	-57.3	-13.0	-44.3	

LTE B26 15MHz 16QAM

**LTE Band 41**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 29435 TC  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 41 Harmonics, 5MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2498.5</b>									
4997.00	-24.1	V	3.0	33.2	1.0	-56.4	-25.0	-31.4	
7495.50	-23.8	V	3.0	32.8	1.0	-55.7	-25.0	-30.7	
9994.00	-25.8	V	3.0	32.8	1.0	-57.6	-25.0	-32.6	
4997.00	-24.6	H	3.0	33.2	1.0	-56.8	-25.0	-31.8	
7495.50	-24.9	H	3.0	32.8	1.0	-56.8	-25.0	-31.8	
9994.00	-23.4	H	3.0	32.8	1.0	-55.1	-25.0	-30.1	
<b>Mid Ch, 2593</b>									
5186.00	-25.6	V	3.0	33.2	1.0	-57.8	-25.0	-32.8	
7779.00	-24.2	V	3.0	32.8	1.0	-56.1	-25.0	-31.1	
10372.00	-26.0	V	3.0	32.5	1.0	-57.5	-25.0	-32.5	
5186.00	-25.0	H	3.0	33.2	1.0	-57.2	-25.0	-32.2	
7779.00	-24.2	H	3.0	32.8	1.0	-56.1	-25.0	-31.1	
10372.00	-24.4	H	3.0	32.5	1.0	-55.9	-25.0	-30.9	
<b>High Ch, 2687.5</b>									
5375.00	-25.8	V	3.0	33.1	1.0	-58.0	-25.0	-33.0	
8062.50	-23.8	V	3.0	32.8	1.0	-55.7	-25.0	-30.7	
10750.00	-25.5	V	3.0	32.3	1.0	-56.7	-25.0	-31.7	
5375.00	-24.9	H	3.0	33.1	1.0	-57.0	-25.0	-32.0	
8062.50	-22.8	H	3.0	32.8	1.0	-54.6	-25.0	-29.6	
10750.00	-24.7	H	3.0	32.3	1.0	-55.9	-25.0	-30.9	

LTE B41 5MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 29435 TC  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 41 Harmonics, 5MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2498.5</b>									
4997.00	-24.7	V	3.0	33.2	1.0	-57.0	-25.0	-32.0	
7495.50	-24.0	V	3.0	32.8	1.0	-55.9	-25.0	-30.9	
9994.00	-26.3	V	3.0	32.8	1.0	-58.1	-25.0	-33.1	
4997.00	-24.7	H	3.0	33.2	1.0	-56.9	-25.0	-31.9	
7495.50	-25.1	H	3.0	32.8	1.0	-56.9	-25.0	-31.9	
9994.00	-23.5	H	3.0	32.8	1.0	-55.3	-25.0	-30.3	
<b>Mid Ch, 2593</b>									
5186.00	-25.9	V	3.0	33.2	1.0	-58.0	-25.0	-33.0	
7779.00	-24.8	V	3.0	32.8	1.0	-56.6	-25.0	-31.6	
10372.00	-26.2	V	3.0	32.5	1.0	-57.7	-25.0	-32.7	
5186.00	-25.2	H	3.0	33.2	1.0	-57.4	-25.0	-32.4	
7779.00	-24.5	H	3.0	32.8	1.0	-56.4	-25.0	-31.4	
10372.00	-24.9	H	3.0	32.5	1.0	-56.4	-25.0	-31.4	
<b>High Ch, 2687.5</b>									
5375.00	-26.2	V	3.0	33.1	1.0	-58.3	-25.0	-33.3	
8062.50	-24.3	V	3.0	32.8	1.0	-56.1	-25.0	-31.1	
10750.00	-25.9	V	3.0	32.3	1.0	-57.2	-25.0	-32.2	
5375.00	-25.5	H	3.0	33.1	1.0	-57.6	-25.0	-32.6	
8062.50	-23.2	H	3.0	32.8	1.0	-55.0	-25.0	-30.0	
10750.00	-24.9	H	3.0	32.3	1.0	-56.2	-25.0	-31.2	

LTE B41 5MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 29435 TC  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 41 Harmonics, 10MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2501</b>									
5002.00	-24.6	V	3.0	33.2	1.0	-56.8	-25.0	-31.8	
7503.00	-24.8	V	3.0	32.8	1.0	-56.6	-25.0	-31.6	
10004.00	-26.7	V	3.0	32.8	1.0	-58.5	-25.0	-33.5	
5002.00	-24.7	H	3.0	33.2	1.0	-56.9	-25.0	-31.9	
7503.00	-24.8	H	3.0	32.8	1.0	-56.6	-25.0	-31.6	
10004.00	-26.4	H	3.0	32.8	1.0	-58.1	-25.0	-33.1	
<b>Mid Ch, 2593</b>									
5186.00	-25.6	V	3.0	33.2	1.0	-57.8	-25.0	-32.8	
7779.00	-24.6	V	3.0	32.8	1.0	-56.4	-25.0	-31.4	
10372.00	-26.4	V	3.0	32.5	1.0	-57.9	-25.0	-32.9	
5186.00	-26.6	H	3.0	33.2	1.0	-58.8	-25.0	-33.8	
7779.00	-25.8	H	3.0	32.8	1.0	-57.6	-25.0	-32.6	
10372.00	-25.2	H	3.0	32.5	1.0	-56.7	-25.0	-31.7	
<b>High Ch, 2685</b>									
5370.00	-25.4	V	3.0	33.1	1.0	-57.5	-25.0	-32.5	
8055.00	-24.4	V	3.0	32.8	1.0	-56.2	-25.0	-31.2	
10740.00	-25.2	V	3.0	32.3	1.0	-56.5	-25.0	-31.5	
5370.00	-25.7	H	3.0	33.1	1.0	-57.8	-25.0	-32.8	
8055.00	-24.4	H	3.0	32.8	1.0	-56.2	-25.0	-31.2	
10740.00	-26.6	H	3.0	32.3	1.0	-57.9	-25.0	-32.9	

LTE B41 10MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 29435 TC  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 41 Harmonics, 10MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2501</b>									
5002.00	-24.6	V	3.0	33.2	1.0	-56.8	-25.0	-31.8	
7503.00	-24.8	V	3.0	32.8	1.0	-56.6	-25.0	-31.6	
10004.00	-26.7	V	3.0	32.8	1.0	-58.5	-25.0	-33.5	
5002.00	-24.7	H	3.0	33.2	1.0	-56.9	-25.0	-31.9	
7503.00	-24.8	H	3.0	32.8	1.0	-56.6	-25.0	-31.6	
10004.00	-26.4	H	3.0	32.8	1.0	-58.1	-25.0	-33.1	
<b>Mid Ch, 2593</b>									
5186.00	-25.6	V	3.0	33.2	1.0	-57.8	-25.0	-32.8	
7779.00	-24.6	V	3.0	32.8	1.0	-56.4	-25.0	-31.4	
10372.00	-26.4	V	3.0	32.5	1.0	-57.9	-25.0	-32.9	
5186.00	-26.6	H	3.0	33.2	1.0	-58.8	-25.0	-33.8	
7779.00	-25.8	H	3.0	32.8	1.0	-57.6	-25.0	-32.6	
10372.00	-25.2	H	3.0	32.5	1.0	-56.7	-25.0	-31.7	
<b>High Ch, 2685</b>									
5370.00	-25.4	V	3.0	33.1	1.0	-57.5	-25.0	-32.5	
8055.00	-24.4	V	3.0	32.8	1.0	-56.2	-25.0	-31.2	
10740.00	-25.2	V	3.0	32.3	1.0	-56.5	-25.0	-31.5	
5370.00	-25.7	H	3.0	33.1	1.0	-57.8	-25.0	-32.8	
8055.00	-24.4	H	3.0	32.8	1.0	-56.2	-25.0	-31.2	
10740.00	-26.6	H	3.0	32.3	1.0	-57.9	-25.0	-32.9	

LTE B41 10MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 41 Harmonics, 15MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2503.5</b>									
5007.00	-20.1	V	3.0	33.2	1.0	-52.3	-25.0	-27.3	
7510.50	-20.4	V	3.0	32.8	1.0	-52.3	-25.0	-27.3	
10014.00	-19.2	V	3.0	32.8	1.0	-50.9	-25.0	-25.9	
5007.00	-20.0	H	3.0	33.2	1.0	-52.2	-25.0	-27.2	
7510.50	-20.8	H	3.0	32.8	1.0	-52.7	-25.0	-27.7	
10014.00	-20.2	H	3.0	32.8	1.0	-51.9	-25.0	-26.9	
<b>Mid Ch, 2593</b>									
5186.00	-21.3	V	3.0	33.2	1.0	-53.4	-25.0	-28.4	
7779.00	-20.2	V	3.0	32.8	1.0	-52.0	-25.0	-27.0	
10372.00	-18.1	V	3.0	32.5	1.0	-49.6	-25.0	-24.6	
5186.00	-20.6	H	3.0	33.2	1.0	-52.8	-25.0	-27.8	
7779.00	-20.1	H	3.0	32.8	1.0	-52.0	-25.0	-27.0	
10372.00	-19.0	H	3.0	32.5	1.0	-50.5	-25.0	-25.5	
<b>High Ch, 2682.5</b>									
5365.00	-6.3	V	3.0	33.1	1.0	-38.4	-25.0	-13.4	
8047.50	-18.7	V	3.0	32.8	1.0	-50.5	-25.0	-25.5	
10730.00	-17.9	V	3.0	32.3	1.0	-49.1	-25.0	-24.1	
5365.00	-4.2	H	3.0	33.1	1.0	-36.4	-25.0	-11.4	
8047.50	-18.9	H	3.0	32.8	1.0	-50.7	-25.0	-25.7	
10730.00	-17.9	H	3.0	32.3	1.0	-49.2	-25.0	-24.2	

LTE B41 15MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/15/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + AC + Headset  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 41 Harmonics, 15MHz Bandwidth

F Mhz	SG reading (dBm)	Ant. Pol. (dBi)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2503.5</b>									
5007.00	-20.4	V	3.0	33.2	1.0	-52.7	-25.0	-27.7	
7510.50	-20.0	V	3.0	32.8	1.0	-51.8	-25.0	-26.8	
10014.00	-18.8	V	3.0	32.8	1.0	-50.5	-25.0	-25.5	
5007.00	-20.1	H	3.0	33.2	1.0	-52.3	-25.0	-27.3	
7510.50	-20.5	H	3.0	32.8	1.0	-52.3	-25.0	-27.3	
10014.00	-18.3	H	3.0	32.8	1.0	-50.1	-25.0	-25.1	
<b>Mid Ch, 2593</b>									
5186.00	-21.4	V	3.0	33.2	1.0	-53.6	-25.0	-28.6	
7779.00	-19.6	V	3.0	32.8	1.0	-51.5	-25.0	-26.5	
10372.00	-18.5	V	3.0	32.5	1.0	-50.0	-25.0	-25.0	
5186.00	-21.0	H	3.0	33.2	1.0	-53.2	-25.0	-28.2	
7779.00	-18.5	H	3.0	32.8	1.0	-50.3	-25.0	-25.3	
10372.00	-19.0	H	3.0	32.5	1.0	-50.5	-25.0	-25.5	
<b>High Ch, 2682.5</b>									
5365.00	-6.7	V	3.0	33.1	1.0	-38.9	-25.0	-13.9	
8047.50	-17.5	V	3.0	32.8	1.0	-49.3	-25.0	-24.3	
10730.00	-17.2	V	3.0	32.3	1.0	-48.5	-25.0	-23.5	
5365.00	-4.2	H	3.0	33.1	1.0	-36.3	-25.0	-11.3	
8047.50	-19.0	H	3.0	32.8	1.0	-50.8	-25.0	-25.8	
10730.00	-17.3	H	3.0	32.3	1.0	-48.6	-25.0	-23.6	

LTE B41 15MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/9/2017  
**Test Engineer:** 43574 JS  
**Configuration:** EUT + AC + Headset  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 41 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (dV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2506</b>									
5012.00	-22.8	V	3.0	33.2	1.0	-55.0	-25.0	-30.0	
7518.00	-21.5	V	3.0	32.8	1.0	-53.3	-25.0	-28.3	
10024.00	-21.6	V	3.0	32.8	1.0	-53.4	-25.0	-28.4	
5012.00	-22.9	H	3.0	33.2	1.0	-55.1	-25.0	-30.1	
7518.00	-21.8	H	3.0	32.8	1.0	-53.7	-25.0	-28.7	
10024.00	-21.6	H	3.0	32.8	1.0	-53.3	-25.0	-28.3	
<b>Mid Ch, 2593</b>									
5186.00	-22.5	V	3.0	33.2	1.0	-54.7	-25.0	-29.7	
7779.00	-21.3	V	3.0	32.8	1.0	-53.1	-25.0	-28.1	
10372.00	-21.1	V	3.0	32.5	1.0	-52.6	-25.0	-27.6	
5186.00	-22.6	H	3.0	33.2	1.0	-54.7	-25.0	-29.7	
7779.00	-21.5	H	3.0	32.8	1.0	-53.3	-25.0	-28.3	
10372.00	-20.7	H	3.0	32.5	1.0	-52.2	-25.0	-27.2	
<b>High Ch, 2680</b>									
5360.00	-9.2	V	3.0	33.1	1.0	-41.4	-25.0	-16.4	
8040.00	-20.6	V	3.0	32.8	1.0	-52.4	-25.0	-27.4	
10720.00	-21.3	V	3.0	32.3	1.0	-52.6	-25.0	-27.6	
5360.00	-12.0	H	3.0	33.1	1.0	-41.1	-25.0	-16.1	
8040.00	-23.5	H	3.0	32.8	1.0	-55.4	-25.0	-30.4	
10720.00	-22.4	H	3.0	32.3	1.0	-53.7	-25.0	-28.7	

**LTE B41 20MHz QPSK**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/9/2017  
**Test Engineer:** 43574 JS  
**Configuration:** EUT + AC + Headset  
**Location:** Chamber C  
**Mode:** LTE\_16QAM Band 41 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (dV)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2506</b>									
5012.00	-23.3	V	3.0	33.2	1.0	-55.6	-25.0	-30.6	
7518.00	-22.1	V	3.0	32.8	1.0	-53.9	-25.0	-28.9	
10024.00	-21.3	V	3.0	32.8	1.0	-53.1	-25.0	-28.1	
5012.00	-23.5	H	3.0	33.2	1.0	-55.7	-25.0	-30.7	
7518.00	-22.5	H	3.0	32.8	1.0	-54.4	-25.0	-29.4	
10024.00	-21.0	H	3.0	32.8	1.0	-52.8	-25.0	-27.8	
<b>Mid Ch, 2593</b>									
5186.00	-23.5	V	3.0	33.2	1.0	-55.7	-25.0	-30.7	
7779.00	-21.4	V	3.0	32.8	1.0	-53.2	-25.0	-28.2	
10372.00	-20.5	V	3.0	32.5	1.0	-52.1	-25.0	-27.1	
5186.00	-23.3	H	3.0	33.2	1.0	-55.5	-25.0	-30.5	
7779.00	-21.8	H	3.0	32.8	1.0	-53.6	-25.0	-28.6	
10372.00	-20.5	H	3.0	32.5	1.0	-52.0	-25.0	-27.0	
<b>High Ch, 2680</b>									
5360.00	-9.8	V	3.0	33.1	1.0	-42.0	-25.0	-17.0	
8040.00	-20.7	V	3.0	32.8	1.0	-52.5	-25.0	-27.5	
10720.00	-21.2	V	3.0	32.3	1.0	-52.5	-25.0	-27.5	
5360.00	-12.2	H	3.0	33.1	1.0	-44.3	-25.0	-19.3	
8040.00	-23.1	H	3.0	32.8	1.0	-55.0	-25.0	-30.0	
10720.00	-21.2	H	3.0	32.3	1.0	-52.5	-25.0	-27.5	

**LTE B41 20MHz 16QAM**



**LTE Band 66**

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 66 Harmonics, 1.4MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1710.7MHz</b>									
3421.40	-20.7	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
5132.10	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6842.80	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3421.40	-22.4	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	
5132.10	-17.2	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6842.80	-15.7	H	3.0	35.7	1.0	-50.4	-13.0	-37.4	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.9	V	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5235.00	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6980.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3490.00	-22.3	H	3.0	36.0	1.0	-57.5	-13.0	-44.3	
5235.00	-16.4	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
6980.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8	
<b>High Ch, 1779.3MHz</b>									
3558.60	-21.8	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5337.90	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
7117.20	-16.9	V	3.0	35.7	1.0	-51.6	-13.0	-38.6	
3558.60	-21.5	H	3.0	36.0	1.0	-56.5	-13.0	-43.5	
5337.90	-18.5	H	3.0	35.4	1.0	-53.0	-13.0	-40.0	
7117.20	-15.8	H	3.0	35.7	1.0	-50.5	-13.0	-37.5	

LTE B66 1.4MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 66 Harmonics, 1.4MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1710.7MHz</b>									
3421.40	-21.8	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
5132.10	-18.2	V	3.0	35.4	1.0	-52.6	-13.0	-39.6	
6842.80	-15.5	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3421.40	-21.8	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	
5132.10	-16.6	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6842.80	-15.7	H	3.0	35.7	1.0	-50.3	-13.0	-37.3	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.4	V	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5235.00	-17.7	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	
6980.00	-17.1	V	3.0	35.7	1.0	-51.8	-13.0	-38.8	
3490.00	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5235.00	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6980.00	-15.9	H	3.0	35.7	1.0	-50.6	-13.0	-37.6	
<b>High Ch, 1779.3MHz</b>									
3558.60	-21.8	V	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5337.90	-16.6	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
7117.20	-15.5	V	3.0	35.7	1.0	-50.2	-13.0	-37.2	
3558.60	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5337.90	-17.8	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
7117.20	-16.2	H	3.0	35.7	1.0	-50.9	-13.0	-37.9	

LTE B66 1.4MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 66 Harmonics, 3MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1711.5MHz</b>									
3423.00	-21.8	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
5134.50	-17.1	V	3.0	35.4	1.0	-51.6	-13.0	-38.6	
6846.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3423.00	-22.2	H	3.0	36.1	1.0	-57.5	-13.0	-44.3	
5134.50	-17.4	H	3.0	35.4	1.0	-51.9	-13.0	-38.9	
6846.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.1	V	3.0	36.0	1.0	-56.1	-13.0	-43.1	
5235.00	-18.2	V	3.0	35.4	1.0	-52.7	-13.0	-39.7	
6980.00	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3490.00	-22.2	H	3.0	36.0	1.0	-57.2	-13.0	-44.2	
5235.00	-17.4	H	3.0	35.4	1.0	-51.9	-13.0	-38.9	
6980.00	-14.9	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	
<b>High Ch, 1778.5MHz</b>									
3557.00	-21.5	V	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5335.50	-18.5	V	3.0	35.4	1.0	-53.0	-13.0	-40.0	
7114.00	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
3557.00	-21.4	H	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5335.50	-17.3	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
7114.00	-15.6	H	3.0	35.7	1.0	-50.3	-13.0	-37.3	

LTE B66 3MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 66 Harmonics, 3MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1711.5MHz</b>									
3423.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
5134.50	-17.7	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	
6846.00	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3423.00	-22.7	H	3.0	36.1	1.0	-57.7	-13.0	-44.7	
5134.50	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6846.00	-15.7	H	3.0	35.7	1.0	-50.4	-13.0	-37.4	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.9	V	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5235.00	-18.3	V	3.0	35.4	1.0	-52.8	-13.0	-39.8	
6980.00	-16.4	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3490.00	-22.0	H	3.0	36.0	1.0	-57.0	-13.0	-44.0	
5235.00	-17.3	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
6980.00	-15.6	H	3.0	35.7	1.0	-50.3	-13.0	-37.3	
<b>High Ch, 1778.5MHz</b>									
3557.00	-21.4	V	3.0	36.0	1.0	-56.5	-13.0	-43.5	
5335.50	-18.4	V	3.0	35.4	1.0	-52.8	-13.0	-39.8	
7114.00	-15.8	V	3.0	35.7	1.0	-50.5	-13.0	-37.5	
3557.00	-22.0	H	3.0	36.0	1.0	-57.4	-13.0	-44.4	
5335.50	-18.1	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	
7114.00	-15.8	H	3.0	35.7	1.0	-50.5	-13.0	-37.5	

LTE B66 3MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_QPSK Band 66 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1712.5MHz</b>									
3425.00	-22.1	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
5137.50	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6850.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3425.00	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
5137.50	-17.7	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
6850.00	-15.5	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.4	V	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5235.00	-17.7	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
6980.00	-16.8	V	3.0	35.7	1.0	-51.9	-13.0	-38.9	
3490.00	-21.2	H	3.0	36.0	1.0	-56.2	-13.0	-43.2	
5235.00	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6980.00	-15.5	H	3.0	35.7	1.0	-50.2	-13.0	-37.2	
<b>High Ch, 1777.5MHz</b>									
3555.00	-22.0	V	3.0	36.0	1.0	-57.0	-13.0	-44.0	
5332.50	-18.8	V	3.0	35.4	1.0	-53.2	-13.0	-40.2	
7110.00	-15.8	V	3.0	35.7	1.0	-50.5	-13.0	-37.5	
3555.00	-21.6	H	3.0	36.0	1.0	-56.5	-13.0	-43.5	
5332.50	-18.0	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
7110.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	

LTE B66 5MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

Company: SOMC  
 Project #: 11740661  
 Date: 6/13/2017  
 Test Engineer: 43575 OS  
 Configuration: EUT + HS + Charger  
 Location: Chamber C  
 Mode: LTE\_16QAM Band 66 Harmonics, 5MHz Bandwidth

F MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1712.5MHz</b>									
3425.00	-22.2	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
5137.50	-15.4	V	3.0	35.4	1.0	-49.8	-13.0	-36.8	
6850.00	-15.9	V	3.0	35.7	1.0	-50.5	-13.0	-37.5	
3425.00	-21.6	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	
5137.50	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6850.00	-15.6	H	3.0	35.7	1.0	-50.3	-13.0	-37.3	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.4	V	3.0	36.0	1.0	-56.5	-13.0	-43.5	
5235.00	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
6980.00	-16.4	V	3.0	35.7	1.0	-51.1	-13.0	-38.1	
3490.00	-21.6	H	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5235.00	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6980.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
<b>High Ch, 1777.5MHz</b>									
3555.00	-21.7	V	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5332.50	-18.3	V	3.0	35.4	1.0	-52.8	-13.0	-39.8	
7110.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3555.00	-22.4	H	3.0	36.0	1.0	-57.3	-13.0	-44.3	
5332.50	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
7110.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	

LTE B66 5MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/13/2017  
**Test Engineer:** 43575 OS  
**Configuration:** EUT + HS + Charger  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 66 Harmonics, 10MHz Bandwidth

f	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1715MHz</b>									
3430.00	-21.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
5145.00	-16.8	V	3.0	35.4	1.0	-49.6	-13.0	-36.6	
6860.00	-14.9	V	3.0	35.7	1.0	-49.6	-13.0	-37.4	
3430.00	-22.4	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	
5145.00	-16.7	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6860.00	-15.6	H	3.0	35.7	1.0	-50.3	-13.0	-37.3	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.5	V	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5235.00	-17.7	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
6980.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3	
3490.00	-21.7	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5235.00	-17.3	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
6980.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
<b>High Ch, 1775MHz</b>									
3550.00	-22.0	V	3.0	36.0	1.0	-57.0	-13.0	-44.0	
5325.00	-18.1	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	
7100.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3550.00	-22.1	H	3.0	36.0	1.0	-57.1	-13.0	-44.1	
5325.00	-18.3	H	3.0	35.4	1.0	-52.7	-13.0	-39.7	
7100.00	-15.8	H	3.0	35.7	1.0	-50.5	-13.0	-37.5	

LTE B66 10MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/13/2017  
**Test Engineer:** 43575 OS  
**Configuration:** EUT + HS + Charger  
**Location:** Chamber C  
**Mode:** LTE\_16QAM Band 66 Harmonics, 10MHz Bandwidth

f	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1715MHz</b>									
3430.00	-22.1	V	3.0	36.1	1.0	-57.2	-13.0	-44.2	
5145.00	-17.8	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
6860.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3430.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
5145.00	-16.0	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
6860.00	-14.2	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.9	V	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5235.00	-17.7	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
6980.00	-16.5	V	3.0	35.7	1.0	-51.1	-13.0	-38.1	
3490.00	-21.9	H	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5235.00	-17.2	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6980.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0	
<b>High Ch, 1775MHz</b>									
3550.00	-21.3	V	3.0	36.0	1.0	-56.3	-13.0	-43.3	
5325.00	-18.2	V	3.0	35.4	1.0	-52.6	-13.0	-39.6	
7100.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3550.00	-22.1	H	3.0	36.0	1.0	-57.0	-13.0	-44.0	
5325.00	-17.7	H	3.0	35.4	1.0	-52.1	-13.0	-39.1	
7100.00	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	

LTE B66 10MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/13/2017  
**Test Engineer:** 43575 OS  
**Configuration:** EUT + HS + Charger  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 66 Harmonics, 15MHz Bandwidth

f	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1717.5MHz</b>									
3435.00	-21.8	V	3.0	36.1	1.0	-56.9	-13.0	-43.9	
5152.50	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6870.00	-15.8	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3435.00	-21.9	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
5152.50	-16.9	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6870.00	-14.8	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.7	V	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5235.00	-17.6	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6980.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3490.00	-21.5	H	3.0	36.0	1.0	-56.5	-13.0	-43.5	
5235.00	-17.1	H	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6980.00	-14.8	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
<b>High Ch, 1772.5MHz</b>									
3545.00	-21.7	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5317.50	-18.4	V	3.0	35.4	1.0	-52.8	-13.0	-39.8	
7090.00	-14.9	V	3.0	35.7	1.0	-49.6	-13.0	-36.6	
3545.00	-21.8	H	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5317.50	-18.3	H	3.0	35.4	1.0	-52.8	-13.0	-39.8	
7090.00	-16.0	H	3.0	35.7	1.0	-50.7	-13.0	-37.7	

LTE B66 15MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/13/2017  
**Test Engineer:** 43575 OS  
**Configuration:** EUT + HS + Charger  
**Location:** Chamber C  
**Mode:** LTE\_16QAM Band 66 Harmonics, 15MHz Bandwidth

f	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1717.5MHz</b>									
3435.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
5152.50	-17.7	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
6870.00	-15.8	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3435.00	-22.4	H	3.0	36.1	1.0	-57.4	-13.0	-44.4	
5152.50	-17.3	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
6870.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.8	V	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5235.00	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6980.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3490.00	-22.0	H	3.0	36.0	1.0	-57.0	-13.0	-44.0	
5235.00	-15.9	H	3.0	35.4	1.0	-50.3	-13.0	-37.3	
6980.00	-14.8	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
<b>High Ch, 1772.5MHz</b>									
3545.00	-21.9	V	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5317.50	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
7090.00	-16.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3545.00	-21.7	H	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5317.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
7090.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	

LTE B66 15MHz 16QAM

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/8/2017  
**Test Engineer:** 43575 OS  
**Configuration:** EUT + HS + Charger  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 66 Harmonics, 20MHz Bandwidth

f	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1720MHz</b>									
3440.00	-20.8	V	3.0	36.0	1.0	-55.9	-13.0	-42.9	
5160.00	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6880.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3440.00	-21.8	H	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5160.00	-16.6	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6880.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.4	V	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5235.00	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6980.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3490.00	-21.5	H	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5235.00	-16.2	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
6980.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
<b>High Ch, 1770MHz</b>									
3540.00	-21.7	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5310.00	-16.7	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
7080.00	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3540.00	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5310.00	-17.1	H	3.0	35.4	1.0	-51.5	-13.0	-38.5	
7080.00	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	

LTE B66 20MHz QPSK

**UL Verification Services, Inc.**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** SOMC  
**Project #:** 11740661  
**Date:** 6/8/2017  
**Test Engineer:** 43575 OS  
**Configuration:** EUT + HS + Charger  
**Location:** Chamber C  
**Mode:** LTE\_QPSK Band 66 Harmonics, 20MHz Bandwidth

f	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1720MHz</b>									
3440.00	-20.8	V	3.0	36.0	1.0	-55.9	-13.0	-42.9	
5160.00	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6880.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3440.00	-21.8	H	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5160.00	-16.6	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6880.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
<b>Mid Ch, 1745MHz</b>									
3490.00	-21.4	V	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5235.00	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6980.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3490.00	-21.5	H	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5235.00	-16.2	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
6980.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
<b>High Ch, 1770MHz</b>									
3540.00	-21.7	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5310.00	-16.7	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
7080.00	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3540.00	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5310.00	-17.1	H	3.0	35.4	1.0	-51.5	-13.0	-38.5	
7080.00	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	

LTE B66 20MHz 16QAM