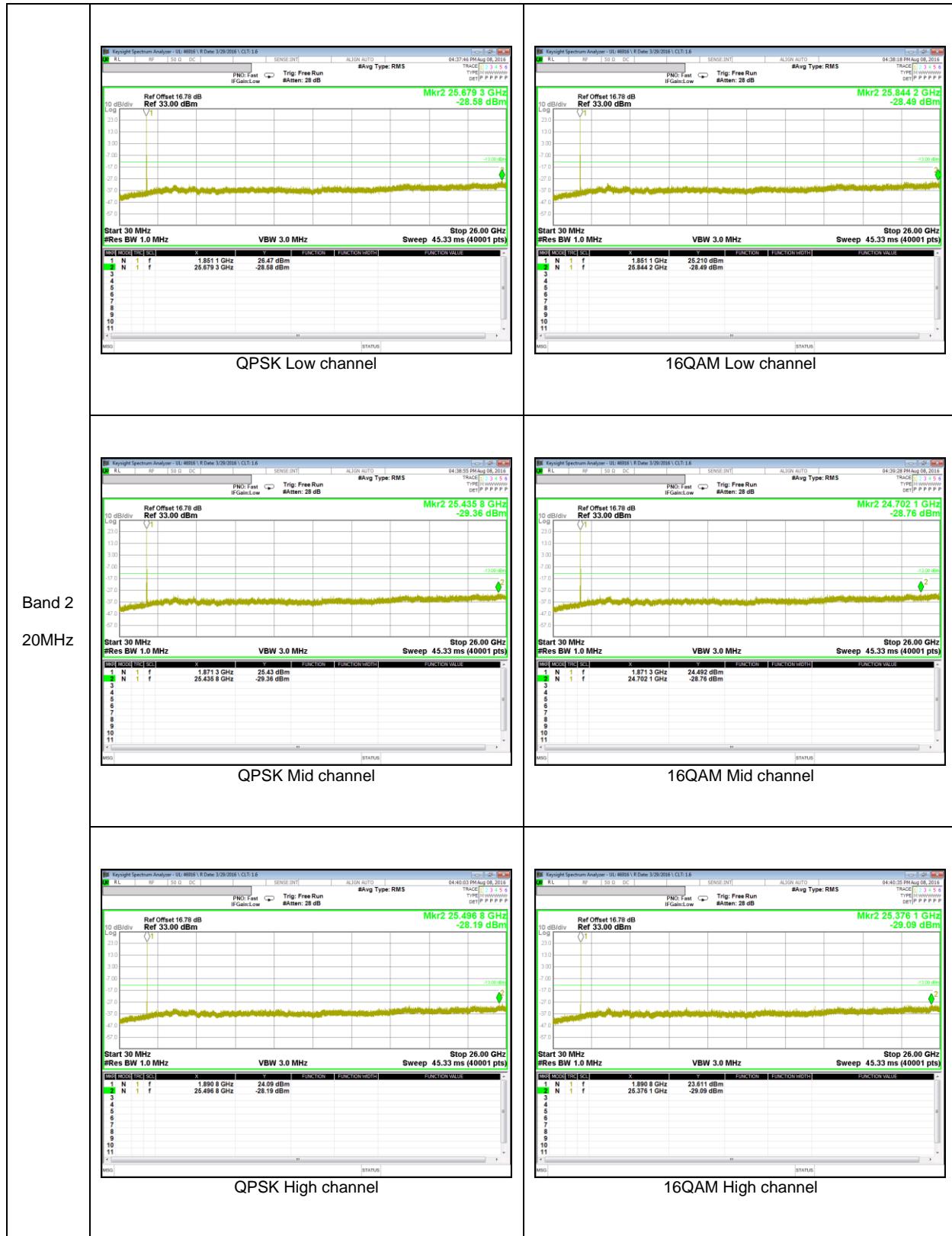
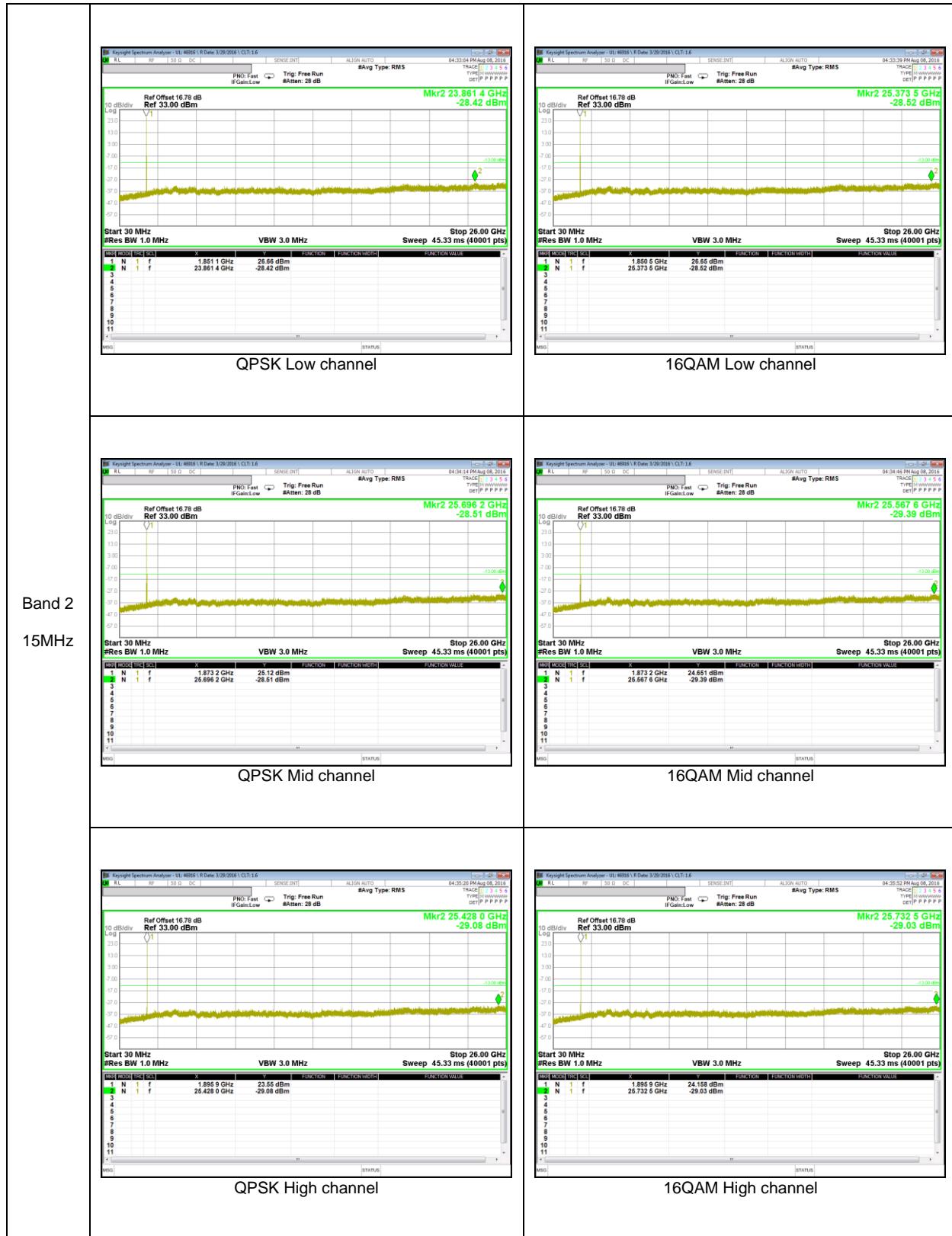
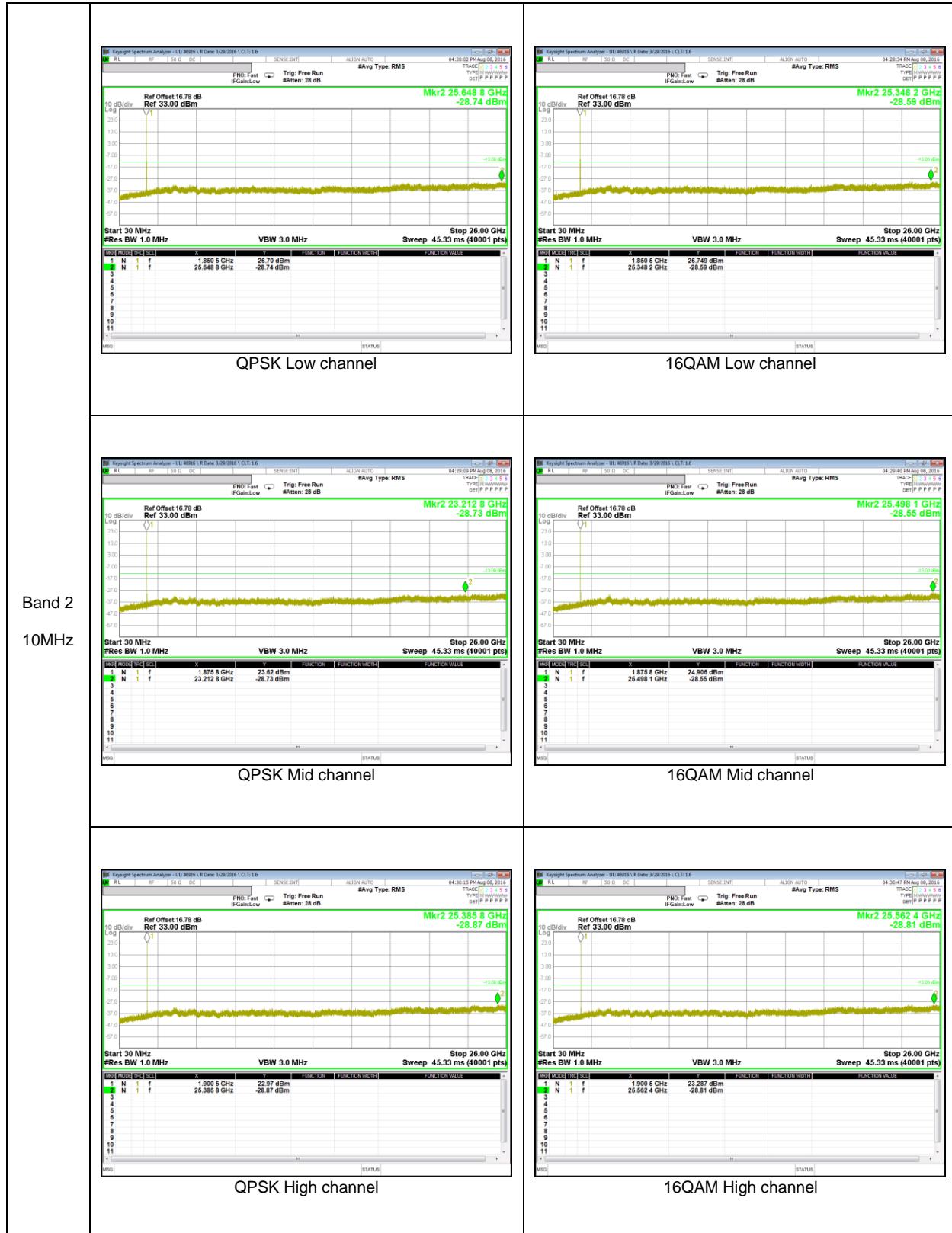
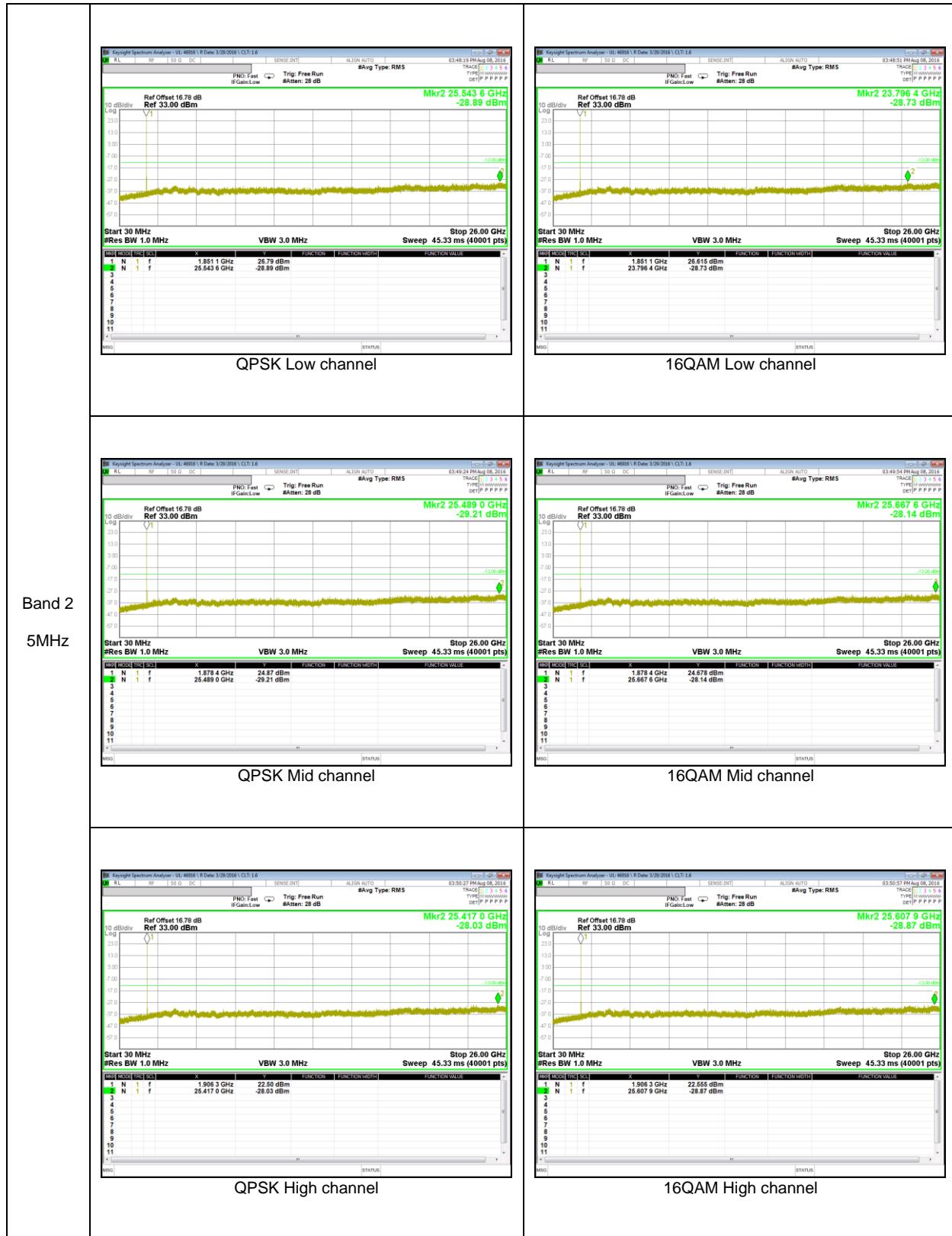


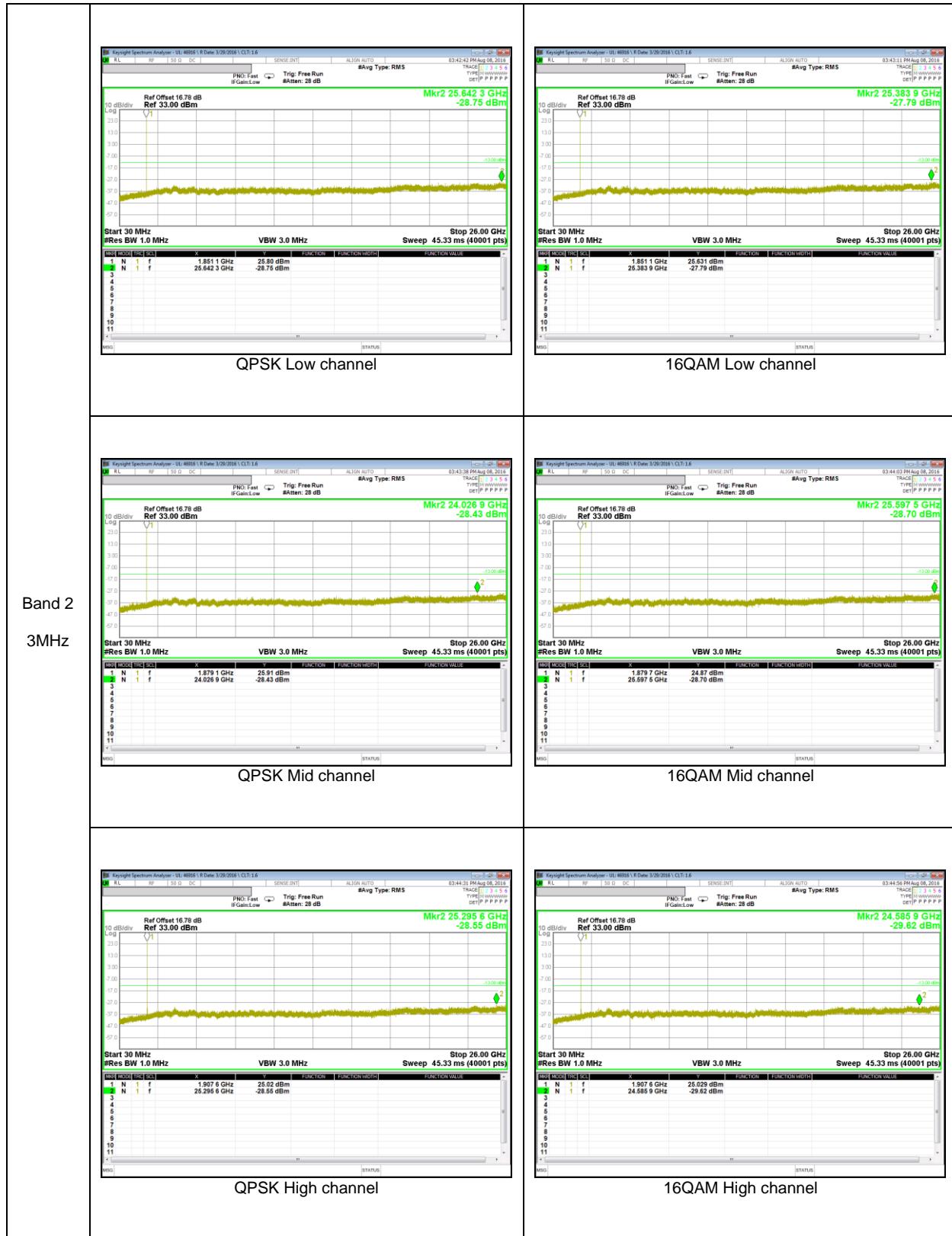
## LTE Band 2

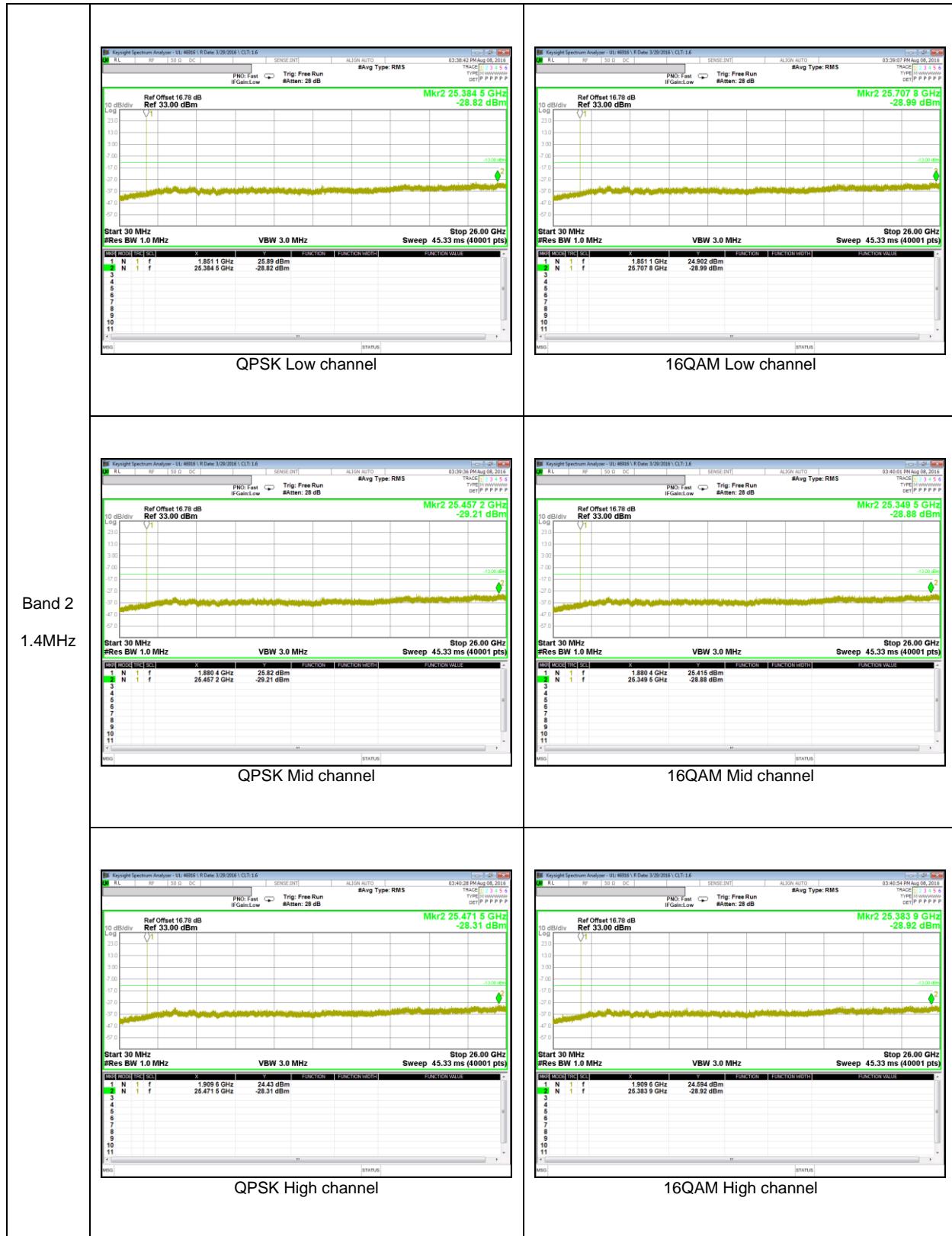












## 10.4. FREQUENCY STABILITY

### RULE PART(S)

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

### 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

See the following pages.

#### 10.4.1. FREQUENCY STABILITY RESULTS

##### LTE Band 5, Channel 20524, Frequency 836.5 MHz

Reference Frequency: LTE Band 5 Mid Channel 836.5 MHz @ 20°C				
Limit: +- 2.5 ppm = 2091.250 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	836.49999516	-0.001	2.5
3.80	40	836.49999631	-0.003	2.5
3.80	30	836.49999617	-0.002	2.5
<b>3.80</b>	<b>20</b>	<b>836.49999413</b>	<b>0</b>	<b>2.5</b>
3.80	10	836.49999602	-0.002	2.5
3.80	0	836.49999561	-0.002	2.5
3.80	-10	836.49999477	-0.001	2.5
3.80	-20	836.49999512	-0.001	2.5
3.80	-30	836.49999466	-0.001	2.5

Reference Frequency: LTE Band 5 Mid Channel 836.5 MHz @ 20°C				
Limit: +- 2.5 ppm = 2091.250 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>836.49999413</b>	<b>0</b>	<b>2.5</b>
4.20	20	836.49999574	-0.002	2.5
3.40	20	836.49999481	-0.001	2.5

**WCDMA Band 5, Channel 4183, Frequency 836.6 MHz**

Reference Frequency: WCDMA Band 5 Mid Channel 836.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 2091.500 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	836.60000414	0.001	2.5
3.80	40	836.60000346	0.002	2.5
3.80	30	836.60000392	0.001	2.5
<b>3.80</b>	<b>20</b>	<b>836.60000494</b>	<b>0</b>	<b>2.5</b>
3.80	10	836.60000526	0.000	2.5
3.80	0	836.60000487	0.000	2.5
3.80	-10	836.60000468	0.000	2.5
3.80	-20	836.60000688	-0.002	2.5
3.80	-30	836.60000456	0.000	2.5

Reference Frequency: WCDMA Band 5 Mid Channel 836.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 2091.500 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>836.60000494</b>	<b>0</b>	<b>2.5</b>
4.20	20	836.60000464	0.000	2.5
3.40	20	836.60000381	0.001	2.5

**GSM 850, Channel 190, Frequency 836.6 MHz**

Reference Frequency : GSM850 Mid Channel 836.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 2091.500 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	836.60001685	0.011	2.5
3.80	40	836.60001556	0.012	2.5
3.80	30	836.60001640	0.011	2.5
<b>3.80</b>	<b>20</b>	<b>836.60002596</b>	<b>0</b>	<b>2.5</b>
3.80	10	836.60002361	0.003	2.5
3.80	0	836.60002260	0.004	2.5
3.80	-10	836.60002412	0.002	2.5
3.80	-20	836.60002202	0.005	2.5
3.80	-30	836.60002315	0.003	2.5

Reference Frequency : GSM850 Mid Channel 836.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 2091.500 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>836.60002596</b>	<b>0</b>	<b>2.5</b>
4.20	20	836.60002512	0.001	2.5
3.80	20	836.60002496	0.001	2.5

**LTE Band 4, Channel 20174, Frequency 1732.5 MHz**

Reference Frequency: LTE Band 4 Mid Channel 1732.5 MHz @ 20°C				
Limit: +- 2.5 ppm = 4331.250 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	1732.50000988	0.001	2.5
3.80	40	1732.50000953	0.001	2.5
3.80	30	1732.50000837	0.002	2.5
<b>3.80</b>	<b>20</b>	<b>1732.50001100</b>	<b>0</b>	<b>2.5</b>
3.80	10	1732.50001070	0.000	2.5
3.80	0	1732.50000866	0.001	2.5
3.80	-10	1732.50000824	0.002	2.5
3.80	-20	1732.50000945	0.001	2.5
3.80	-30	1732.50000710	0.002	2.5

Reference Frequency: LTE Band 4 Mid Channel 1732.5 MHz @ 20°C				
Limit: +- 2.5 ppm = 4331.250 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>1732.50001100</b>	<b>0</b>	<b>2.5</b>
4.20	20	1732.50001040	0.000	2.5
3.40	20	1732.50001123	0.000	2.5

**WCDMA Band 4, Channel 1413, Frequency 1732.6 MHz**

Reference Frequency: WCDMA Band 4 Mid Channel 1732.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 4331.500 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	1732.60000718	0.001	2.5
3.80	40	1732.60000850	0.000	2.5
3.80	30	1732.60000868	0.000	2.5
<b>3.80</b>	<b>20</b>	1732.60000877	<b>0</b>	<b>2.5</b>
3.80	10	1732.60000940	0.000	2.5
3.80	0	1732.60001076	-0.001	2.5
3.80	-10	1732.60001333	-0.003	2.5
3.80	-20	1732.60001491	-0.004	2.5
3.80	-30	1732.60001681	-0.005	2.5

Reference Frequency: WCDMA Band 4 Mid Channel 1732.6 MHz @ 20°C				
Limit: +- 2.5 ppm = 4331.500 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>1732.60000877</b>	<b>0</b>	<b>2.5</b>
4.20	20	1732.60000689	0.001	2.5
3.40	20	1732.60000748	0.001	2.5

**LTE Band 2, Channel 18900, Frequency 1880.0 MHz**

Reference Frequency: LTE Band 2 Mid Channel 1880 MHz @ 20°C				
Limit: +- 2.5 ppm = 4700.000 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	1879.99998765	0.000	2.5
3.80	40	1879.99998993	-0.001	2.5
3.80	30	1879.99998863	-0.001	2.5
<b>3.80</b>	<b>20</b>	<b>1879.99998728</b>	<b>0</b>	<b>2.5</b>
3.80	10	1879.99998732	0.000	2.5
3.80	0	1879.99998948	-0.001	2.5
3.80	-10	1879.99999019	-0.002	2.5
3.80	-20	1879.99999030	-0.002	2.5
3.80	-30	1879.99998798	0.000	2.5

Reference Frequency: LTE Band 2 Mid Channel 1880 MHz @ 20°C				
Limit: +- 2.5 ppm = 4700.000 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>1879.99998728</b>	<b>0</b>	<b>2.5</b>
4.20	20	1879.99998858	-0.001	2.5
3.40	20	1879.99998880	-0.001	2.5

**WCDMA Band 2, Channel 9400, Frequency 1880.0 MHz**

Reference Frequency: WCDMA Band 2 Mid Channel 1880.0 MHz @ 20°C				
Limit: +- 2.5 ppm = 4700.000 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	1880.00001135	-0.001	2.5
3.80	40	1880.00001171	-0.001	2.5
3.80	30	1880.00001129	-0.001	2.5
<b>3.80</b>	<b>20</b>	1880.00001019	<b>0</b>	<b>2.5</b>
3.80	10	1880.00001045	0.000	2.5
3.80	0	1880.00001011	0.000	2.5
3.80	-10	1880.00000986	0.000	2.5
3.80	-20	1880.00000846	0.001	2.5
3.80	-30	1880.00000717	0.002	2.5

Reference Frequency: WCDMA Band 2 Mid Channel 1880.0 MHz @ 20°C				
Limit: +- 2.5 ppm = 4700.000 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>1880.00001019</b>	<b>0</b>	<b>2.5</b>
4.20	20	1880.00000787	0.001	2.5
3.40	20	1880.00000916	0.001	2.5

**GSM 1900, Channel 661, Frequency 1880.0 MHz**

Reference Frequency: GSM1900 Mid Channel 1880.0 MHz @ 20°C				
Limit: +- 2.5 ppm = 4700.000 Hz				
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse		
		[MHz]	Delta [ppm]	Limit [ppm]
3.80	50	1880.00001198	0.002	2.5
3.80	40	1880.00001262	0.002	2.5
3.80	30	1880.00001452	0.001	2.5
<b>3.80</b>	<b>20</b>	1880.00001566	<b>0</b>	<b>2.5</b>
3.80	10	1880.00001635	0.000	2.5
3.80	0	1880.00001897	-0.002	2.5
3.80	-10	1880.00001866	-0.002	2.5
3.80	-20	1880.00002285	-0.004	2.5
3.80	-30	1880.00002444	-0.005	2.5

Reference Frequency: GSM1900 Mid Channel 1880.0 MHz @ 20°C				
Limit: +- 2.5 ppm = 4700.000 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>1880.00001566</b>	<b>0</b>	<b>2.5</b>
4.20	20	1880.00001508	0.000	2.5
3.80	20	1880.00001453	0.001	2.5

## 11. RADIATED TEST RESULTS

### 11.1. FIELD STRENGTH OF SPURIOUS RADIATION

#### RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27. 53

#### 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.

#### TEST PROCEDURE

ANSI / TIA / EIA 603D Clause 2.2.12; ESU40 setting reference to 971168 D01 v02r02

For peak power measurement with a ESU40:

- a) Set the RBW = 100KHz for emission below 1GHz and 1MHz for emissions above 1GHz
- b) Set VBW  $\geq 3 \times$  RBW;
- c) Set span  $\geq 1.5$  times the OBW;
- d) Sweep time = auto couple;
- e) Detector = peak;
- f) Ensure that the number of measurement points  $\geq$  span/RBW;
- g) Trace mode = max hold;

#### RESULTS

### 11.1.1. SPURIOUS RADIATION PLOTS

#### GSM 850

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Project #: 16K23790 Date: 09-07-16 Test Engineer: YH Lim Configuration: EUT , X Position Mode: GPRS 850 MHz								
		Chamber		Pre-amplifier		Filter		Limit		
		Chamber 2		AFS42		Filter 1		Part 22		
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 824.2MHz										
1.6484	-4.8	V	3.0	39.1	1.0	-42.9	-13.0	-29.9		
2.4726	-8.4	V	3.0	39.5	1.0	-46.9	-13.0	-33.9		
3.2968	-22.5	V	3.0	40.1	1.0	-61.6	-13.0	-48.6		
1.6484	-6.4	H	3.0	39.1	1.0	-44.5	-13.0	-31.5		
2.4726	-15.1	H	3.0	39.5	1.0	-53.6	-13.0	-40.6		
3.2968	-23.4	H	3.0	40.1	1.0	-62.5	-13.0	-49.5		
Mid Ch, 836.6MHz										
1.6730	-12.6	V	3.0	39.1	1.0	-50.8	-13.0	-37.8		
2.5098	-17.5	V	3.0	39.5	1.0	-56.0	-13.0	-43.0		
3.3464	-20.3	V	3.0	40.1	1.0	-59.4	-13.0	-46.4		
1.6730	-8.8	H	3.0	39.1	1.0	-46.9	-13.0	-33.9		
2.5098	-18.4	H	3.0	39.5	1.0	-57.0	-13.0	-44.0		
3.3464	-22.2	H	3.0	40.1	1.0	-61.3	-13.0	-48.3		
High Ch, 848.8MHz										
1.6976	-16.6	V	3.0	39.1	1.0	-54.7	-13.0	-41.7		
2.5466	-11.5	V	3.0	39.6	1.0	-50.1	-13.0	-37.1		
3.3952	-17.7	V	3.0	40.2	1.0	-56.9	-13.0	-43.9		
1.6976	-14.7	H	3.0	39.1	1.0	-52.8	-13.0	-39.8		
2.5466	-18.9	H	3.0	39.6	1.0	-57.5	-13.0	-44.5		
3.3952	-20.0	H	3.0	40.2	1.0	-59.2	-13.0	-46.2		

Rev. 03.03.09  
 Note: No other emissions were detected above the system noise floor.

**GSM 1900**

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
GSM  GSM1900 GPR	Company: Project #: Date: Test Engineer: Configuration: Mode:		Wisol 16K23790 09-07-16 YH Lim EUT , X Position GPRS 1900								
	Chamber			Pre-amplifier			Filter			Limit	
	Chamber 2			AFS42			Filter 1			Part 24	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 1850.2MHz										
	3.7004	-3.8	V	3.0	40.5	1.0	-43.2	-13.0	-30.2		
	5.5506	4.4	V	3.0	40.8	1.0	-35.4	-13.0	-22.4		
	7.4008	-2.2	V	3.0	40.8	1.0	-42.0	-13.0	-29.0		
	3.7004	-6.6	H	3.0	40.5	1.0	-46.1	-13.0	-33.1		
	5.5506	2.5	H	3.0	40.8	1.0	-37.3	-13.0	-24.3		
	7.4008	-7.6	H	3.0	40.8	1.0	-47.4	-13.0	-34.4		
	Mid Ch, 1880.0MHz										
	3.7600	-4.8	V	3.0	40.5	1.0	-44.4	-13.0	-31.4		
	5.6400	2.8	V	3.0	40.8	1.0	-37.0	-13.0	-24.0		
	7.5200	0.3	V	3.0	40.7	1.0	-39.4	-13.0	-26.4		
	3.7600	-10.0	H	3.0	40.5	1.0	-49.5	-13.0	-36.5		
	5.6400	1.8	H	3.0	40.8	1.0	-38.0	-13.0	-25.0		
	7.5200	-7.6	H	3.0	40.7	1.0	-47.3	-13.0	-34.3		
	High Ch, 1909.8 MHz										
	3.8196	0.4	V	3.0	40.6	1.0	-39.2	-13.0	-26.2		
	5.7294	4.5	V	3.0	40.8	1.0	-35.3	-13.0	-22.3		
	7.6392	1.8	V	3.0	40.7	1.0	-37.8	-13.0	-24.8		
	3.8196	-6.5	H	3.0	40.6	1.0	-46.1	-13.0	-33.1		
	5.7294	2.3	H	3.0	40.8	1.0	-37.5	-13.0	-24.5		
	7.6392	-3.2	H	3.0	40.7	1.0	-42.9	-13.0	-29.9		

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

**WCDMA B5**

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
<b>WCDMA</b>  <b>Band 5</b> <b>REL99</b>	<table border="1"> <thead> <tr> <th colspan="2">Chamber</th><th colspan="2">Pre-amplifier</th><th colspan="2">Filter</th><th colspan="2">Limit</th><th colspan="2"></th></tr> <tr> <th>Chamber 2</th><th>AFS42</th><th>Filter 1</th><th>Part 22</th><th colspan="2"></th><th colspan="2"></th><th colspan="2"></th></tr> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. 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<b>WCDMA</b>  <b>Band 5</b> <b>HSDPA</b>	<table border="1"> <thead> <tr> <th colspan="2">Chamber</th> <th colspan="2">Pre-amplifier</th> <th colspan="2">Filter</th> <th colspan="2">Limit</th> <th colspan="2"></th> </tr> <tr> <th>Chamber 2</th> <th>AFS42</th> <th>Filter 1</th> <th>Part 22</th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> </tr> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10"><b>Low Ch, 826.40MHz</b></td></tr> <tr> <td>1.6520</td><td>-24.4</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr> <tr> <td>2.4790</td><td>-21.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.4</td><td>-13.0</td><td>-47.4</td><td></td></tr> <tr> <td>3.3056</td><td>-20.1</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr> <td>1.6520</td><td>-24.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-62.7</td><td>-13.0</td><td>-49.7</td><td></td></tr> <tr> <td>2.4790</td><td>-22.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-61.3</td><td>-13.0</td><td>-48.3</td><td></td></tr> <tr> <td>3.3056</td><td>-20.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-59.8</td><td>-13.0</td><td>-46.8</td><td></td></tr> <tr> <td colspan="10"><b>Mid Ch, 836.6MHz</b></td></tr> <tr> <td>1.6732</td><td>-22.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.4</td><td>-13.0</td><td>-47.4</td><td></td></tr> <tr> <td>2.5098</td><td>-21.7</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr> <td>3.3464</td><td>-20.1</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr> <td>1.6732</td><td>-24.4</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr> <tr> <td>2.5098</td><td>-22.1</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.6</td><td>-13.0</td><td>-47.6</td><td></td></tr> <tr> <td>3.3464</td><td>-20.6</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-59.8</td><td>-13.0</td><td>-46.8</td><td></td></tr> <tr> <td colspan="10"><b>High Ch, 846.6MHz</b></td></tr> <tr> <td>1.6932</td><td>-22.7</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.9</td><td>-13.0</td><td>-47.9</td><td></td></tr> <tr> <td>2.5390</td><td>-21.7</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr> <td>3.3860</td><td>-20.0</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr> <td>1.6932</td><td>-24.3</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr> <tr> <td>2.5390</td><td>-22.4</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-60.9</td><td>-13.0</td><td>-47.9</td><td></td></tr> <tr> <td>3.3860</td><td>-20.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr> <td colspan="10">Rev. 03.03.09</td><td></td></tr> <tr> <td colspan="10">Note: No other emissions were detected above the system noise floor.</td><td></td></tr> </tbody> </table>	Chamber		Pre-amplifier		Filter		Limit				Chamber 2	AFS42	Filter 1	Part 22							f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	<b>Low Ch, 826.40MHz</b>										1.6520	-24.4	V	3.0	39.1	1.0	-62.5	-13.0	-49.5		2.4790	-21.9	V	3.0	39.5	1.0	-60.4	-13.0	-47.4		3.3056	-20.1	V	3.0	40.1	1.0	-59.2	-13.0	-46.2		1.6520	-24.6	H	3.0	39.1	1.0	-62.7	-13.0	-49.7		2.4790	-22.8	H	3.0	39.5	1.0	-61.3	-13.0	-48.3		3.3056	-20.7	H	3.0	40.1	1.0	-59.8	-13.0	-46.8		<b>Mid Ch, 836.6MHz</b>										1.6732	-22.3	V	3.0	39.1	1.0	-60.4	-13.0	-47.4		2.5098	-21.7	V	3.0	39.5	1.0	-60.2	-13.0	-47.2		3.3464	-20.1	V	3.0	40.1	1.0	-59.2	-13.0	-46.2		1.6732	-24.4	H	3.0	39.1	1.0	-62.5	-13.0	-49.5		2.5098	-22.1	H	3.0	39.5	1.0	-60.6	-13.0	-47.6		3.3464	-20.6	H	3.0	40.1	1.0	-59.8	-13.0	-46.8		<b>High Ch, 846.6MHz</b>										1.6932	-22.7	V	3.0	39.1	1.0	-60.9	-13.0	-47.9		2.5390	-21.7	V	3.0	39.6	1.0	-60.2	-13.0	-47.2		3.3860	-20.0	V	3.0	40.2	1.0	-59.2	-13.0	-46.2		1.6932	-24.3	H	3.0	39.1	1.0	-62.5	-13.0	-49.5		2.5390	-22.4	H	3.0	39.6	1.0	-60.9	-13.0	-47.9		3.3860	-20.4	H	3.0	40.2	1.0	-59.6	-13.0	-46.6		Rev. 03.03.09											Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																																																																												
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**WCDMA B4**

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement													
		Company: Wisol Project #: 16K23790 Date: 08-31-16 Test Engineer: JH Park Configuration: EUT / X Position Mode: Tx, REL99, 1700MHz											
		Chamber		Pre-amplifier		Filter		Limit					
		Chamber 2		AFS42		Filter 1		Part 24					
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes				
<b>Low Ch, 1712.4MHz</b>													
3.4248	-3.5	V	✓ 3.0	40.2	1.0	-42.7	-13.0	-29.7					
5.1372	-5.0	V	✓ 3.0	40.9	1.0	-44.9	-13.0	-31.9					
6.8496	1.2	V	✓ 3.0	41.0	1.0	-38.8	-13.0	-25.8					
3.4248	-3.3	H	✓ 3.0	40.2	1.0	-42.5	-13.0	-29.5					
5.1372	-8.0	H	✓ 3.0	40.9	1.0	-47.9	-13.0	-34.9					
6.8496	-3.5	H	✓ 3.0	41.0	1.0	-43.5	-13.0	-30.5					
<b>Mid Ch, 1732.6MHz</b>													
3.4652	-1.4	V	✓ 3.0	40.3	1.0	-40.7	-13.0	-27.7					
5.1978	-6.5	V	✓ 3.0	40.9	1.0	-46.4	-13.0	-33.4					
6.9304	1.3	V	✓ 3.0	41.0	1.0	-38.7	-13.0	-25.7					
3.4652	-3.8	H	✓ 3.0	40.3	1.0	-43.1	-13.0	-30.1					
5.1978	-9.5	H	✓ 3.0	40.9	1.0	-49.4	-13.0	-36.4					
6.9304	-4.0	H	✓ 3.0	41.0	1.0	-44.0	-13.0	-31.0					
<b>High Ch, 1752.6MHz</b>													
3.5052	-5.9	V	✓ 3.0	40.3	1.0	-45.2	-13.0	-32.2					
5.2578	-5.9	V	✓ 3.0	40.9	1.0	-45.8	-13.0	-32.8					
7.0104	-0.4	V	✓ 3.0	41.0	1.0	-40.4	-13.0	-27.4					
3.5052	-4.0	H	✓ 3.0	40.3	1.0	-43.2	-13.0	-30.2					
5.2578	-11.2	H	✓ 3.0	40.9	1.0	-51.1	-13.0	-38.1					
7.0104	-5.4	H	✓ 3.0	41.0	1.0	-45.4	-13.0	-32.4					
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.													
UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement													
		Company: Wisol Project #: 16K23790 Date: 08-31-16 Test Engineer: JH Park Configuration: EUT / X Position Mode: Tx, HSDPA, 1700MHz											
		Chamber		Pre-amplifier		Filter		Limit					
		Chamber 2		AFS42		Filter 1		Part 24					
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes				
<b>Low Ch, 1712.4MHz</b>													
3.4248	-2.3	V	✓ 3.0	40.2	1.0	-41.5	-13.0	-28.5					
5.1372	-6.4	V	✓ 3.0	40.9	1.0	-46.3	-13.0	-33.3					
6.8496	1.4	V	✓ 3.0	41.0	1.0	-38.6	-13.0	-25.6					
3.4248	-1.6	H	✓ 3.0	40.2	1.0	-40.8	-13.0	-27.8					
5.1372	-8.5	H	✓ 3.0	40.9	1.0	-48.4	-13.0	-35.4					
6.8496	-7.3	H	✓ 3.0	41.0	1.0	-47.3	-13.0	-34.3					
<b>Mid Ch, 1732.6MHz</b>													
3.4652	-4.4	V	✓ 3.0	40.3	1.0	-43.7	-13.0	-30.7					
5.1978	-8.2	V	✓ 3.0	40.9	1.0	-48.1	-13.0	-35.1					
6.9304	-1.3	V	✓ 3.0	41.0	1.0	-41.3	-13.0	-28.3					
3.4652	-2.6	H	✓ 3.0	40.3	1.0	-41.8	-13.0	-28.8					
5.1978	-10.4	H	✓ 3.0	40.9	1.0	-50.3	-13.0	-37.3					
6.9304	-6.4	H	✓ 3.0	41.0	1.0	-46.4	-13.0	-33.4					
<b>High Ch, 1752.6MHz</b>													
3.5052	1.3	V	✓ 3.0	40.3	1.0	-38.0	-13.0	-25.0					
5.2578	-8.2	V	✓ 3.0	40.9	1.0	-48.1	-13.0	-35.1					
7.0104	-2.8	V	✓ 3.0	41.0	1.0	-42.8	-13.0	-29.8					
3.5052	-1.4	H	✓ 3.0	40.3	1.0	-40.7	-13.0	-27.7					
5.2578	-10.6	H	✓ 3.0	40.9	1.0	-50.5	-13.0	-37.5					
7.0104	-11.9	H	✓ 3.0	41.0	1.0	-51.9	-13.0	-38.9					
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.													

**WCDMA B2**

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Project #: Date: Test Engineer: Configuration: Mode:		Wisol 16K23790 08-31-16 JH Park EUT / X Position Tx, REL99,1900MHz						
		Chamber		Pre-amplifier		Filter		Limit		
		Chamber 2		AFS42		Filter 1		Part 24		
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)
WCDMA  Band 2 REL99	Low Ch, 1852.4MHz									
	3.7048	-17.2	V	✓	3.0	40.5	1.0	-56.7	-13.0	-43.7
	5.5572	-9.6	V	✓	3.0	40.8	1.0	-49.4	-13.0	-36.4
	7.4096	-5.4	V	✓	3.0	40.8	1.0	-45.2	-13.0	-32.2
	3.7048	-17.2	H	✓	3.0	40.5	1.0	-56.7	-13.0	-43.7
	5.5572	-15.8	H	✓	3.0	40.8	1.0	-55.6	-13.0	-42.6
	7.4096	-12.7	H	✓	3.0	40.8	1.0	-52.5	-13.0	-39.5
	Mid Ch, 1880MHz									
	3.7600	-15.5	V	✓	3.0	40.5	1.0	-55.0	-13.0	-42.0
	5.6400	-9.2	V	✓	3.0	40.8	1.0	-49.0	-13.0	-36.0
	7.5200	-2.9	V	✓	3.0	40.7	1.0	-42.7	-13.0	-29.7
	3.7600	-15.7	H	✓	3.0	40.5	1.0	-55.2	-13.0	-42.2
	5.6400	-13.9	H	✓	3.0	40.8	1.0	-53.7	-13.0	-40.7
	7.5200	-11.1	H	✓	3.0	40.7	1.0	-50.8	-13.0	-37.8
	High Ch, 1907.6MHz									
	3.8152	-18.8	V	✓	3.0	40.6	1.0	-58.4	-13.0	-45.4
	5.7228	-8.4	V	✓	3.0	40.8	1.0	-48.2	-13.0	-35.2
	7.6304	-5.4	V	✓	3.0	40.7	1.0	-45.1	-13.0	-32.1
	3.8152	-17.8	H	✓	3.0	40.6	1.0	-57.4	-13.0	-44.4
	5.7228	-12.4	H	✓	3.0	40.8	1.0	-52.2	-13.0	-39.2
	7.6304	-13.0	H	✓	3.0	40.7	1.0	-52.6	-13.0	-39.6
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										
WCDMA  Band 2 HSDPA	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement									
	Company: Project #: Date: Test Engineer: Configuration: Mode:		Wisol 16K23790 08-31-16 JH Park EUT / X Position Tx, HSDPA,1900MHz							
	Chamber		Pre-amplifier		Filter		Limit			
	Chamber 2		AFS42		Filter 1		Part 24			
	f GHz		SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)
	Low Ch, 1852.4MHz									
	3.7048	-17.4	V	✓	3.0	40.5	1.0	-56.9	-13.0	-43.9
	5.5572	-10.5	V	✓	3.0	40.8	1.0	-50.3	-13.0	-37.3
	7.4096	-6.6	V	✓	3.0	40.8	1.0	-48.4	-13.0	-33.4
	3.7048	-18.5	H	✓	3.0	40.5	1.0	-58.0	-13.0	-45.0
	5.5572	-15.0	H	✓	3.0	40.8	1.0	-54.8	-13.0	-41.8
	7.4096	-13.3	H	✓	3.0	40.8	1.0	-53.1	-13.0	-40.1
	Mid Ch, 1880MHz									
	3.7600	-16.6	V	✓	3.0	40.5	1.0	-56.1	-13.0	-43.1
	5.6400	-9.7	V	✓	3.0	40.8	1.0	-49.5	-13.0	-36.5
	7.5200	-4.8	V	✓	3.0	40.7	1.0	-44.6	-13.0	-31.6
	3.7600	-16.5	H	✓	3.0	40.5	1.0	-56.0	-13.0	-43.0
	5.6400	-15.5	H	✓	3.0	40.8	1.0	-55.3	-13.0	-42.3
	7.5200	-11.5	H	✓	3.0	40.7	1.0	-51.3	-13.0	-38.3
	High Ch, 1907.6MHz									
	3.8152	-17.6	V	✓	3.0	40.6	1.0	-57.2	-13.0	-44.2
	5.7228	-9.3	V	✓	3.0	40.8	1.0	-49.1	-13.0	-36.1
	7.6304	-7.1	V	✓	3.0	40.7	1.0	-46.8	-13.0	-33.8
	3.8152	-18.0	H	✓	3.0	40.6	1.0	-57.5	-13.0	-44.5
	5.7228	-13.6	H	✓	3.0	40.8	1.0	-53.4	-13.0	-40.4
	7.6304	-14.5	H	✓	3.0	40.7	1.0	-54.2	-13.0	-41.2
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

## LTE Band 5

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																																																																				
		Company: Wisol		Project #: 16K23790		Date: 09-06-16		Test Engineer: JH Park																																																																																																																																																																																																																																																																																												
		Configuration: EUT / X Position		Mode: TX, LTE BAND 5, 10MHz BW,QPSK																																																																																																																																																																																																																																																																																																
		Chamber			Pre-amplifier			Filter		Limit																																																																																																																																																																																																																																																																																										
		Chamber 2			AFS42			Filter 1		Part 22																																																																																																																																																																																																																																																																																										
LTE Band 5 10MHz QPSK	<table border="1"> <thead> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> </thead> <tbody> <tr> <td colspan="11"><b>Low Channel (829MHz)</b></td></tr> <tr> <td>1.6580</td><td>-23.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-61.7</td><td>-13.0</td><td>-48.7</td><td></td></tr> <tr> <td>2.4870</td><td>-20.3</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr> <tr> <td>3.3160</td><td>-19.8</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-58.9</td><td>-13.0</td><td>-45.9</td><td></td></tr> <tr> <td>1.6580</td><td>-25.2</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-63.3</td><td>-13.0</td><td>-50.3</td><td></td></tr> <tr> <td>2.4870</td><td>-22.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-61.3</td><td>-13.0</td><td>-48.3</td><td></td></tr> <tr> <td>3.3160</td><td>-21.1</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr> <td colspan="11"><b>Mid Channel (836.5MHz)</b></td></tr> <tr> <td>1.6730</td><td>-18.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr> <tr> <td>2.5090</td><td>-21.6</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.1</td><td>-13.0</td><td>-47.1</td><td></td></tr> <tr> <td>3.3460</td><td>-21.5</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.7</td><td>-13.0</td><td>-47.7</td><td></td></tr> <tr> <td>1.6730</td><td>-23.7</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr> <tr> <td>2.5090</td><td>-23.5</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr> <td>3.3460</td><td>-20.9</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr> <td colspan="11"><b>High Channel (844MHz)</b></td></tr> <tr> <td>1.6880</td><td>-23.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-61.5</td><td>-13.0</td><td>-48.5</td><td></td></tr> <tr> <td>2.5320</td><td>-22.3</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr> <td>3.3760</td><td>-20.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> <tr> <td>1.6880</td><td>-24.9</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-63.0</td><td>-13.0</td><td>-50.0</td><td></td></tr> <tr> <td>2.5320</td><td>-22.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr> <td>3.3760</td><td>-21.1</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> </tbody> </table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)								Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	<b>Low Channel (829MHz)</b>											1.6580	-23.6	V	3.0	39.1	1.0	-61.7	-13.0	-48.7		2.4870	-20.3	V	3.0	39.5	1.0	-58.8	-13.0	-45.8		3.3160	-19.8	V	3.0	40.1	1.0	-58.9	-13.0	-45.9		1.6580	-25.2	H	3.0	39.1	1.0	-63.3	-13.0	-50.3		2.4870	-22.8	H	3.0	39.5	1.0	-61.3	-13.0	-48.3		3.3160	-21.1	H	3.0	40.1	1.0	-60.2	-13.0	-47.2		<b>Mid Channel (836.5MHz)</b>											1.6730	-18.6	V	3.0	39.1	1.0	-56.7	-13.0	-43.7		2.5090	-21.6	V	3.0	39.5	1.0	-60.1	-13.0	-47.1		3.3460	-21.5	V	3.0	40.1	1.0	-60.7	-13.0	-47.7		1.6730	-23.7	H	3.0	39.1	1.0	-61.8	-13.0	-48.8		2.5090	-23.5	H	3.0	39.5	1.0	-62.1	-13.0	-49.1		3.3460	-20.9	H	3.0	40.1	1.0	-60.0	-13.0	-47.0		<b>High Channel (844MHz)</b>											1.6880	-23.3	V	3.0	39.1	1.0	-61.5	-13.0	-48.5		2.5320	-22.3	V	3.0	39.5	1.0	-60.8	-13.0	-47.8		3.3760	-20.6	V	3.0	40.2	1.0	-59.7	-13.0	-46.7		1.6880	-24.9	H	3.0	39.1	1.0	-63.0	-13.0	-50.0		2.5320	-22.4	H	3.0	39.5	1.0	-61.0	-13.0	-48.0		3.3760	-21.1	H	3.0	40.2	1.0	-60.2	-13.0	-47.2		<p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p>																																																												
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3.3160	-20.3	H	3.0	40.1	1.0	-59.4	-13.0	-46.4																																																																																																																																																																																																																																																																																												
<b>Mid Channel (836.5MHz)</b>																																																																																																																																																																																																																																																																																																				
1.6730	-18.4	V	3.0	39.1	1.0	-56.5	-13.0	-43.5																																																																																																																																																																																																																																																																																												
2.5090	-22.5	V	3.0	39.5	1.0	-61.0	-13.0	-48.0																																																																																																																																																																																																																																																																																												
3.3460	-19.8	V	3.0	40.1	1.0	-58.9	-13.0	-45.9																																																																																																																																																																																																																																																																																												
1.6730	-24.2	H	3.0	39.1	1.0	-62.3	-13.0	-49.3																																																																																																																																																																																																																																																																																												
2.5090	-22.2	H	3.0	39.5	1.0	-60.8	-13.0	-47.8																																																																																																																																																																																																																																																																																												
3.3460	-21.3	H	3.0	40.1	1.0	-60.4	-13.0	-47.4																																																																																																																																																																																																																																																																																												
<b>High Channel (844MHz)</b>																																																																																																																																																																																																																																																																																																				
1.6880	-25.0	V	3.0	39.1	1.0	-63.2	-13.0	-50.2																																																																																																																																																																																																																																																																																												
2.5320	-21.3	V	3.0	39.5	1.0	-59.9	-13.0	-46.9																																																																																																																																																																																																																																																																																												
3.3760	-19.9	V	3.0	40.2	1.0	-59.1	-13.0	-46.1																																																																																																																																																																																																																																																																																												
1.6880	-25.2	H	3.0	39.1	1.0	-63.3	-13.0	-50.3																																																																																																																																																																																																																																																																																												
2.5320	-21.9	H	3.0	39.5	1.0	-60.5	-13.0	-47.5																																																																																																																																																																																																																																																																																												
3.3760	-21.8	H	3.0	40.2	1.0	-61.0	-13.0	-48.0																																																																																																																																																																																																																																																																																												

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement													
		Company: Wisol		Project #: 16K23790		Date: 09-06-16		Test Engineer: JH Park		Configuration: EUT / X Position			
		Mode: TX, LTE BAND 5, 5MHz BW,QPSK											
		Chamber	Pre-amplifier	Filter	Limit								
		Chamber 2	AFS42	Filter 1	Part 22								
LTE		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band 5	5MHz	Low Channel (826.5MHz)											
		1.6530	-24.2	V	3.0	39.1	1.0	-62.3	-13.0	-49.3			
		2.4790	-21.5	V	3.0	39.5	1.0	-60.0	-13.0	-47.0			
		3.3060	-21.5	V	3.0	40.1	1.0	-60.6	-13.0	-47.6			
		1.6530	-24.7	H	3.0	39.1	1.0	-62.8	-13.0	-49.8			
		2.4790	-22.9	H	3.0	39.5	1.0	-61.5	-13.0	-48.5			
		3.3060	-21.0	H	3.0	40.1	1.0	-60.1	-13.0	-47.1			
	Mid Channel (836.5MHz)												
		1.6730	-18.6	V	3.0	39.1	1.0	-56.7	-13.0	-43.7			
		2.5090	-22.8	V	3.0	39.5	1.0	-61.3	-13.0	-48.3			
		3.3460	-20.4	V	3.0	40.1	1.0	-59.6	-13.0	-46.6			
		1.6730	-25.2	H	3.0	39.1	1.0	-63.3	-13.0	-50.3			
		2.5090	-23.2	H	3.0	39.5	1.0	-61.8	-13.0	-48.8			
		3.3460	-21.9	H	3.0	40.1	1.0	-61.0	-13.0	-48.0			
	High Channel (846.5MHz)												
		1.6930	-21.8	V	3.0	39.1	1.0	-59.9	-13.0	-46.9			
		2.5390	-20.3	V	3.0	39.6	1.0	-58.8	-13.0	-45.8			
		3.3860	-20.4	V	3.0	40.2	1.0	-59.6	-13.0	-46.6			
		1.6930	-25.7	H	3.0	39.1	1.0	-63.8	-13.0	-50.8			
		2.5390	-21.8	H	3.0	39.6	1.0	-60.4	-13.0	-47.4			
		3.3860	-21.5	H	3.0	40.2	1.0	-60.7	-13.0	-47.7			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.													
UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement													
		Company: Wisol		Project #: 16K23790		Date: 09-06-16		Test Engineer: JH Park		Configuration: EUT / X Position			
		Mode: TX, LTE BAND 5, 5MHz BW,16QAM											
		Chamber	Pre-amplifier	Filter	Limit								
		Chamber 2	AFS42	Filter 1	Part 22								
LTE		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band 5	5MHz	Low Channel (826.5MHz)											
		1.6530	-24.4	V	3.0	39.1	1.0	-62.5	-13.0	-49.5			
		2.4790	-21.9	V	3.0	39.5	1.0	-60.4	-13.0	-47.4			
		3.3060	-19.6	V	3.0	40.1	1.0	-58.7	-13.0	-45.7			
		1.6530	-25.7	H	3.0	39.1	1.0	-63.8	-13.0	-50.8			
		2.4790	-23.2	H	3.0	39.5	1.0	-61.8	-13.0	-48.8			
		3.3060	-21.5	H	3.0	40.1	1.0	-60.6	-13.0	-47.6			
	Mid Channel (836.5MHz)												
		1.6730	-18.1	V	3.0	39.1	1.0	-56.2	-13.0	-43.2			
		2.5090	-22.1	V	3.0	39.5	1.0	-60.6	-13.0	-47.6			
		3.3460	-20.7	V	3.0	40.1	1.0	-59.8	-13.0	-46.8			
		1.6730	-23.8	H	3.0	39.1	1.0	-61.9	-13.0	-48.9			
		2.5090	-23.3	H	3.0	39.5	1.0	-61.9	-13.0	-48.9			
		3.3460	-21.2	H	3.0	40.1	1.0	-60.4	-13.0	-47.4			
	High Channel (846.5MHz)												
		1.6930	-21.8	V	3.0	39.1	1.0	-59.9	-13.0	-46.9			
		2.5390	-19.9	V	3.0	39.6	1.0	-58.5	-13.0	-45.5			
		3.3860	-20.4	V	3.0	40.2	1.0	-59.5	-13.0	-46.5			
		1.6930	-25.1	H	3.0	39.1	1.0	-63.3	-13.0	-50.3			
		2.5390	-23.3	H	3.0	39.6	1.0	-61.8	-13.0	-48.8			
		3.3860	-20.8	H	3.0	40.2	1.0	-60.0	-13.0	-47.0			
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.													

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
Company: Wisol Project #: 16K23790 Date: 09-06-16 Test Engineer: JH Park Configuration: EUT / X Position Mode: TX LTE BAND 5, 3MHz BW,QPSK											
		Chamber		Pre-amplifier		Filter		Limit			
		Chamber 2		AFS42		Filter 1		Part 22			
LTE	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band 5 3MHz QPSK	Low Channel (825.5MHz)										
	1.6510	-25.0	V	3.0	39.1	1.0	-63.1	-13.0	-50.1		
	2.4765	-22.3	V	3.0	39.5	1.0	-60.8	-13.0	-47.8		
	3.3020	-20.3	V	3.0	40.1	1.0	-59.4	-13.0	-46.4		
	1.6510	-25.4	H	3.0	39.1	1.0	-63.6	-13.0	-50.6		
	2.4765	-23.2	H	3.0	39.5	1.0	-61.8	-13.0	-48.8		
	3.3020	-21.1	H	3.0	40.1	1.0	-60.2	-13.0	-47.2		
	Mid Channel (836.5MHz)										
	1.6730	-19.7	V	3.0	39.1	1.0	-57.8	-13.0	-44.8		
	2.5090	-22.3	V	3.0	39.5	1.0	-60.8	-13.0	-47.8		
	3.3460	-21.0	V	3.0	40.1	1.0	-60.1	-13.0	-47.1		
	1.6730	-23.7	H	3.0	39.1	1.0	-61.8	-13.0	-48.8		
	2.5090	-23.8	H	3.0	39.5	1.0	-62.3	-13.0	-49.3		
	3.3460	-21.5	H	3.0	40.1	1.0	-60.6	-13.0	-47.6		
	High Channel (847.5MHz)										
	1.6950	-18.1	V	3.0	39.1	1.0	-56.2	-13.0	-43.2		
	2.5425	-21.1	V	3.0	39.6	1.0	-59.6	-13.0	-46.6		
	3.3900	-20.0	V	3.0	40.2	1.0	-59.2	-13.0	-46.2		
	1.6950	-25.5	H	3.0	39.1	1.0	-63.6	-13.0	-50.6		
	2.5425	-22.4	H	3.0	39.6	1.0	-60.9	-13.0	-47.9		
	3.3900	-21.2	H	3.0	40.2	1.0	-60.3	-13.0	-47.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											
UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement											
Company: Wisol Project #: 16K23790 Date: 09-06-16 Test Engineer: JH Park Configuration: EUT / X Position Mode: TX LTE BAND 5, 3MHz BW,16QAM											
		Chamber		Pre-amplifier		Filter		Limit			
		Chamber 2		AFS42		Filter 1		Part 22			
LTE	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band 5 3MHz 16QAM	Low Channel (825.5MHz)										
	1.6510	-25.0	V	3.0	39.1	1.0	-63.1	-13.0	-50.1		
	2.4765	-21.0	V	3.0	39.5	1.0	-59.6	-13.0	-46.6		
	3.3020	-20.7	V	3.0	40.1	1.0	-59.8	-13.0	-46.8		
	1.6510	-25.4	H	3.0	39.1	1.0	-63.5	-13.0	-50.5		
	2.4765	-23.9	H	3.0	39.5	1.0	-62.4	-13.0	-49.4		
	3.3020	-21.2	H	3.0	40.1	1.0	-60.3	-13.0	-47.3		
	Mid Channel (836.5MHz)										
	1.6730	-19.7	V	3.0	39.1	1.0	-57.8	-13.0	-44.8		
	2.5090	-22.6	V	3.0	39.5	1.0	-61.1	-13.0	-48.1		
	3.3460	-20.2	V	3.0	40.1	1.0	-59.4	-13.0	-46.4		
	1.6730	-24.5	H	3.0	39.1	1.0	-62.6	-13.0	-49.6		
	2.5090	-22.9	H	3.0	39.5	1.0	-61.4	-13.0	-48.4		
	3.3460	-21.5	H	3.0	40.1	1.0	-60.6	-13.0	-47.6		
	High Channel (847.5MHz)										
	1.6950	-19.0	V	3.0	39.1	1.0	-57.1	-13.0	-44.1		
	2.5425	-21.6	V	3.0	39.6	1.0	-60.1	-13.0	-47.1		
	3.3900	-20.2	V	3.0	40.2	1.0	-59.4	-13.0	-46.4		
	1.6950	-24.8	H	3.0	39.1	1.0	-63.0	-13.0	-50.0		
	2.5425	-21.7	H	3.0	39.6	1.0	-60.3	-13.0	-47.3		
	3.3900	-21.1	H	3.0	40.2	1.0	-60.3	-13.0	-47.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.											

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																														
<table border="1"> <tr> <td>Company:</td><td>Wisol</td></tr> <tr> <td>Project #:</td><td>16K23790</td></tr> <tr> <td>Date:</td><td>09-06-16</td></tr> <tr> <td>Test Engineer:</td><td>JH Park</td></tr> <tr> <td>Configuration:</td><td>EUT / X Position</td></tr> <tr> <td>Mode:</td><td>TX, LTE BAND 5, 1.4MHz BW,QPSK</td></tr> </table>											Company:	Wisol	Project #:	16K23790	Date:	09-06-16	Test Engineer:	JH Park	Configuration:	EUT / X Position	Mode:	TX, LTE BAND 5, 1.4MHz BW,QPSK								
Company:	Wisol																													
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Mode:	TX, LTE BAND 5, 1.4MHz BW,QPSK																													
<table border="1"> <tr> <th colspan="2">Chamber</th><th colspan="2">Pre-amplifier</th><th colspan="2">Filter</th><th colspan="3">Limit</th></tr> <tr> <td>Chamber 2</td><td></td><td>AFS42</td><td></td><td>Filter 1</td><td></td><td>Part 22</td><td></td><td></td><td></td><td></td></tr> </table>											Chamber		Pre-amplifier		Filter		Limit			Chamber 2		AFS42		Filter 1		Part 22				
Chamber		Pre-amplifier		Filter		Limit																								
Chamber 2		AFS42		Filter 1		Part 22																								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																					
<b>Low Channel (824.7MHz)</b>																														
1.6494	-25.0	V	3.0	39.1	1.0	-63.1	-13.0	-50.1																						
2.4741	-21.2	V	3.0	39.5	1.0	-59.7	-13.0	-46.7																						
3.2988	-20.7	V	3.0	40.1	1.0	-59.8	-13.0	-46.8																						
1.6494	-25.3	H	3.0	39.1	1.0	-63.5	-13.0	-50.5																						
2.4741	-23.7	H	3.0	39.5	1.0	-62.2	-13.0	-49.2																						
3.2988	-21.8	H	3.0	40.1	1.0	-60.9	-13.0	-47.9																						
<b>Mid Channel (836.5MHz)</b>																														
1.6730	-17.8	V	3.0	39.1	1.0	-56.0	-13.0	-43.0																						
2.5090	-22.6	V	3.0	39.5	1.0	-61.2	-13.0	-48.2																						
3.3460	-20.2	V	3.0	40.1	1.0	-59.3	-13.0	-46.3																						
1.6730	-24.2	H	3.0	39.1	1.0	-62.4	-13.0	-49.4																						
2.5090	-23.7	H	3.0	39.5	1.0	-62.3	-13.0	-49.3																						
3.3460	-21.0	H	3.0	40.1	1.0	-60.2	-13.0	-47.2																						
<b>High Channel (848.3MHz)</b>																														
1.6966	-19.0	V	3.0	39.1	1.0	-57.1	-13.0	-44.1																						
2.5449	-21.1	V	3.0	39.6	1.0	-59.6	-13.0	-46.6																						
3.3932	-21.0	V	3.0	40.2	1.0	-60.1	-13.0	-47.1																						
1.6966	-22.1	H	3.0	39.1	1.0	-60.2	-13.0	-47.2																						
2.5449	-23.2	H	3.0	39.6	1.0	-61.7	-13.0	-48.7																						
3.3932	-20.7	H	3.0	40.2	1.0	-59.9	-13.0	-46.9																						
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																														
<b>UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement</b>																														
<table border="1"> <tr> <td>Company:</td> <td>Wisol</td> </tr> <tr> <td>Project #:</td> <td>16K23790</td> </tr> <tr> <td>Date:</td> <td>09-06-16</td> </tr> <tr> <td>Test Engineer:</td> <td>JH Park</td> </tr> <tr> <td>Configuration:</td> <td>EUT / X Position</td> </tr> <tr> <td>Mode:</td> <td>TX, LTE BAND 5, 1.4MHz BW,16QAM</td> </tr> </table>											Company:	Wisol	Project #:	16K23790	Date:	09-06-16	Test Engineer:	JH Park	Configuration:	EUT / X Position	Mode:	TX, LTE BAND 5, 1.4MHz BW,16QAM								
Company:	Wisol																													
Project #:	16K23790																													
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Configuration:	EUT / X Position																													
Mode:	TX, LTE BAND 5, 1.4MHz BW,16QAM																													
<table border="1"> <tr> <th colspan="2">Chamber</th><th colspan="2">Pre-amplifier</th><th colspan="2">Filter</th><th colspan="3">Limit</th></tr> <tr> <td>Chamber 2</td><td></td><td>AFS42</td><td></td><td>Filter 1</td><td></td><td>Part 22</td><td></td><td></td><td></td><td></td></tr> </table>											Chamber		Pre-amplifier		Filter		Limit			Chamber 2		AFS42		Filter 1		Part 22				
Chamber		Pre-amplifier		Filter		Limit																								
Chamber 2		AFS42		Filter 1		Part 22																								
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																					
<b>Low Channel (824.7MHz)</b>																														
1.6494	-25.6	V	3.0	39.1	1.0	-63.7	-13.0	-50.7																						
2.4741	-20.7	V	3.0	39.5	1.0	-59.2	-13.0	-46.2																						
3.2988	-21.3	V	3.0	40.1	1.0	-60.4	-13.0	-47.4																						
1.6494	-25.1	H	3.0	39.1	1.0	-63.3	-13.0	-50.3																						
2.4741	-23.5	H	3.0	39.5	1.0	-62.0	-13.0	-49.0																						
3.2988	-21.3	H	3.0	40.1	1.0	-60.4	-13.0	-47.4																						
<b>Mid Channel (836.5MHz)</b>																														
1.6730	-18.9	V	3.0	39.1	1.0	-57.0	-13.0	-44.0																						
2.5090	-22.7	V	3.0	39.5	1.0	-61.2	-13.0	-48.2																						
3.3460	-21.4	V	3.0	40.1	1.0	-60.5	-13.0	-47.5																						
1.6730	-22.8	H	3.0	39.1	1.0	-60.9	-13.0	-47.9																						
2.5090	-23.6	H	3.0	39.5	1.0	-62.1	-13.0	-49.1																						
3.3460	-21.3	H	3.0	40.1	1.0	-60.5	-13.0	-47.5																						
<b>High Channel (848.3MHz)</b>																														
1.6966	-15.8	V	3.0	39.1	1.0	-53.9	-13.0	-40.9																						
2.5449	-22.3	V	3.0	39.6	1.0	-60.8	-13.0	-47.8																						
3.3932	-20.4	V	3.0	40.2	1.0	-59.6	-13.0	-46.6																						
1.6966	-20.0	H	3.0	39.1	1.0	-58.1	-13.0	-45.1																						
2.5449	-22.5	H	3.0	39.6	1.0	-61.0	-13.0	-48.0																						
3.3932	-21.1	H	3.0	40.2	1.0	-60.3	-13.0	-47.3																						
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																														

**LTE Band 4**

UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																	
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3.4650	0.6	H	3.0	40.3	1.0	-38.6	-13.0	-25.6																																																																																																																																																																																																																																									
5.1975	-4.9	H	3.0	40.9	1.0	-44.8	-13.0	-31.8																																																																																																																																																																																																																																									
6.9300	3.4	H	3.0	41.0	1.0	-36.6	-13.0	-23.6																																																																																																																																																																																																																																									
<b>High Channel (1745MHz)</b>																																																																																																																																																																																																																																																	
3.4900	3.9	V	3.0	40.3	1.0	-35.4	-13.0	-22.4																																																																																																																																																																																																																																									
5.2350	-2.5	V	3.0	40.9	1.0	-42.4	-13.0	-29.4																																																																																																																																																																																																																																									
6.9800	7.1	V	3.0	41.0	1.0	-32.9	-13.0	-19.9																																																																																																																																																																																																																																									
3.4900	0.9	H	3.0	40.3	1.0	-38.4	-13.0	-25.4																																																																																																																																																																																																																																									
5.2350	-6.2	H	3.0	40.9	1.0	-46.1	-13.0	-33.1																																																																																																																																																																																																																																									
6.9800	1.1	H	3.0	41.0	1.0	-38.9	-13.0	-25.9																																																																																																																																																																																																																																									

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Project #: 16K23790 Date: 09-06-16 Test Engineer: JH Park Configuration: EUT / X-Position Mode: TX, LTE BAND 4, 15MHz BW,QPSK										
		Chamber		Pre-amplifier		Filter		Limit				
		Chamber	Chamber	Pre-amplifier	Pre-amplifier	Filter	Filter	Limit	Limit	Delta	Notes	
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE		<b>Low Channel (1717.5MHz)</b>										
Band 4		3.4350	0.9	V	3.0	40.2	1.0	-38.3	-13.0	-25.3		
15MHz		5.1525	-2.1	V	3.0	40.9	1.0	-41.9	-13.0	-28.9		
QPSK		6.8700	5.8	V	3.0	41.0	1.0	-34.1	-13.0	-21.1		
QPSK		3.4350	1.0	H	3.0	40.2	1.0	-38.2	-13.0	-25.2		
QPSK		5.1525	-5.7	H	3.0	40.9	1.0	-45.5	-13.0	-32.5		
QPSK		6.8700	2.0	H	3.0	41.0	1.0	-37.9	-13.0	-24.9		
QPSK		<b>Mid Channel (1732.5MHz)</b>										
QPSK		3.4650	-1.2	V	3.0	40.3	1.0	-40.5	-13.0	-27.5		
QPSK		5.1975	-3.4	V	3.0	40.9	1.0	-43.3	-13.0	-30.3		
QPSK		6.9300	7.5	V	3.0	41.0	1.0	-32.5	-13.0	-19.5		
QPSK		3.4650	-0.3	H	3.0	40.3	1.0	-39.5	-13.0	-26.5		
QPSK		5.1975	-5.1	H	3.0	40.9	1.0	-44.9	-13.0	-31.9		
QPSK		6.9300	-2.5	H	3.0	41.0	1.0	-42.5	-13.0	-29.5		
QPSK		<b>High Channel (1747.5MHz)</b>										
QPSK		3.4950	1.7	V	3.0	40.3	1.0	-37.6	-13.0	-24.6		
QPSK		5.2425	-2.8	V	3.0	40.9	1.0	-42.7	-13.0	-29.7		
QPSK		6.9900	5.1	V	3.0	41.0	1.0	-34.9	-13.0	-21.9		
QPSK		3.4950	0.6	H	3.0	40.3	1.0	-38.7	-13.0	-25.7		
QPSK		5.2425	-7.0	H	3.0	40.9	1.0	-46.8	-13.0	-33.8		
QPSK		6.9900	-5.3	H	3.0	41.0	1.0	-45.3	-13.0	-32.3		
Rev. 03.03.09												
Note: No other emissions were detected above the system noise floor.												
		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement										
		Company: Project #: 16K23790 Date: 09-06-16 Test Engineer: JH Park Configuration: EUT / X-Position Mode: TX, LTE BAND 4, 15MHz BW,16QAM										
		Chamber		Pre-amplifier		Filter		Limit				
		Chamber	Chamber	Pre-amplifier	Pre-amplifier	Filter	Filter	Limit	Limit	Delta	Notes	
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE		<b>Low Channel (1717.5MHz)</b>										
Band 4		3.4350	1.0	V	3.0	40.2	1.0	-38.3	-13.0	-25.3		
15MHz		5.1525	-1.2	V	3.0	40.9	1.0	-41.0	-13.0	-28.0		
16QAM		6.8700	6.6	V	3.0	41.0	1.0	-33.4	-13.0	-20.4		
16QAM		3.4350	1.5	H	3.0	40.2	1.0	-37.7	-13.0	-24.7		
16QAM		5.1525	-5.4	H	3.0	40.9	1.0	-45.3	-13.0	-32.3		
16QAM		6.8700	3.5	H	3.0	41.0	1.0	-36.5	-13.0	-23.5		
16QAM		<b>Mid Channel (1732.5MHz)</b>										
16QAM		3.4650	-0.3	V	3.0	40.3	1.0	-39.6	-13.0	-26.6		
16QAM		5.1975	-4.1	V	3.0	40.9	1.0	-44.0	-13.0	-31.0		
16QAM		6.9300	8.4	V	3.0	41.0	1.0	-31.6	-13.0	-18.6		
16QAM		3.4650	-0.3	H	3.0	40.3	1.0	-39.6	-13.0	-26.6		
16QAM		5.1975	-5.4	H	3.0	40.9	1.0	-45.3	-13.0	-32.3		
16QAM		6.9300	-2.2	H	3.0	41.0	1.0	-42.2	-13.0	-29.2		
16QAM		<b>High Channel (1747.5MHz)</b>										
16QAM		3.4950	1.7	V	3.0	40.3	1.0	-37.6	-13.0	-24.6		
16QAM		5.2425	-2.1	V	3.0	40.9	1.0	-41.9	-13.0	-28.9		
16QAM		6.9900	6.5	V	3.0	41.0	1.0	-33.5	-13.0	-20.5		
16QAM		3.4950	1.5	H	3.0	40.3	1.0	-37.8	-13.0	-24.8		
16QAM		5.2425	-5.9	H	3.0	40.9	1.0	-45.8	-13.0	-32.8		
16QAM		6.9900	-3.3	H	3.0	41.0	1.0	-43.3	-13.0	-30.3		
Rev. 03.03.09												
Note: No other emissions were detected above the system noise floor.												

		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement													
		Company: Project #: 16K23790 Date: 09-06-16 Test Engineer: JH Park Configuration: EUT / X-Position Mode: TX LTE BAND 4, 10MHz BW, QPSK													
		Chamber		Pre-amplifier		Filter		Limit							
		Chamber	Chamber 2	Pre-amplifier	AFS42	Filter	Filter 1	Limit	FCC Part 27						
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes				
LTE	Band 4 10MHz QPSK	Low Channel (1715MHz)													
		3.4300	0.5	V	3.0	40.2	1.0	-38.8	-13.0	-25.8					
		5.1450	-2.2	V	3.0	40.9	1.0	-42.1	-13.0	-29.1					
		6.8600	6.7	V	3.0	41.0	1.0	-33.3	-13.0	-20.3					
		3.4300	-1.6	H	3.0	40.2	1.0	-40.8	-13.0	-27.8					
		5.1450	-4.0	H	3.0	40.9	1.0	-43.9	-13.0	-30.9					
		6.8600	-1.7	H	3.0	41.0	1.0	-41.7	-13.0	-28.7					
		Mid Channel (1732.5MHz)													
		3.4650	-1.0	V	3.0	40.3	1.0	-40.2	-13.0	-27.2					
		5.1975	-3.0	V	3.0	40.9	1.0	-42.8	-13.0	-29.8					
		6.9300	7.6	V	3.0	41.0	1.0	-32.4	-13.0	-19.4					
		3.4650	-0.7	H	3.0	40.3	1.0	-40.0	-13.0	-27.0					
		5.1975	-5.3	H	3.0	40.9	1.0	-45.2	-13.0	-32.2					
		6.9300	1.8	H	3.0	41.0	1.0	-38.2	-13.0	-25.2					
		High Channel (1750MHz)													
		3.5000	1.8	V	3.0	40.3	1.0	-37.5	-13.0	-24.5					
		5.2500	-2.1	V	3.0	40.9	1.0	-41.9	-13.0	-28.9					
		7.0000	5.7	V	3.0	41.0	1.0	-34.3	-13.0	-21.3					
		3.5000	1.4	H	3.0	40.3	1.0	-37.9	-13.0	-24.9					
		5.2500	-5.3	H	3.0	40.9	1.0	-45.2	-13.0	-32.2					
		7.0000	-4.0	H	3.0	41.0	1.0	-44.0	-13.0	-31.0					
Rev. 03.03.09															
Note: No other emissions were detected above the system noise floor.															
		UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement													
		Company: Project #: 16K23790 Date: 09-06-16 Test Engineer: JH Park Configuration: EUT / X-Position Mode: TX LTE BAND 4, 10MHz BW, 16QAM													
		Chamber		Pre-amplifier		Filter		Limit							
		Chamber	Chamber 2	Pre-amplifier	AFS42	Filter	Filter 1	Limit	FCC Part 27						
		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes				
LTE	Band 4 10MHz 16QAM	Low Channel (1715MHz)													
		3.4300	1.0	V	3.0	40.2	1.0	-38.3	-13.0	-25.3					
		5.1450	-2.1	V	3.0	40.9	1.0	-42.0	-13.0	-29.0					
		6.8600	8.1	V	3.0	41.0	1.0	-31.9	-13.0	-18.9					
		3.4300	-1.5	H	3.0	40.2	1.0	-40.7	-13.0	-27.7					
		5.1450	-3.4	H	3.0	40.9	1.0	-43.3	-13.0	-30.3					
		6.8600	-2.2	H	3.0	41.0	1.0	-42.1	-13.0	-29.1					
		Mid Channel (1732.5MHz)													
		3.4650	-1.3	V	3.0	40.3	1.0	-40.5	-13.0	-27.5					
		5.1975	-2.5	V	3.0	40.9	1.0	-42.3	-13.0	-29.3					
		6.9300	8.5	V	3.0	41.0	1.0	-31.5	-13.0	-18.5					
		3.4650	-0.1	H	3.0	40.3	1.0	-39.4	-13.0	-26.4					
		5.1975	-5.4	H	3.0	40.9	1.0	-45.3	-13.0	-32.3					
		6.9300	3.3	H	3.0	41.0	1.0	-36.7	-13.0	-23.7					
		High Channel (1750MHz)													
		3.5000	1.8	V	3.0	40.3	1.0	-37.5	-13.0	-24.5					
		5.2500	-1.1	V	3.0	40.9	1.0	-41.0	-13.0	-28.0					
		7.0000	5.5	V	3.0	41.0	1.0	-34.5	-13.0	-21.5					
		3.5000	1.7	H	3.0	40.3	1.0	-37.6	-13.0	-24.6					
		5.2500	-5.5	H	3.0	40.9	1.0	-45.4	-13.0	-32.4					
		7.0000	-3.5	H	3.0	41.0	1.0	-43.6	-13.0	-30.6					
Rev. 03.03.09															
Note: No other emissions were detected above the system noise floor.															