

Fundamental Substitution Measurement (Fc < 1GHz) UL LLC, Chamber N									Fundamental Substitution Measurement (Fc < 1GHz) UL LLC, Chamber N								
Test Equipment: <u>Substitution:</u> Dipole antenna AT0016, cable CBL055, and signal-source T374									Test Equipment: <u>Substitution:</u> Dipole antenna AT0016, cable CBL055, and signal-source T374								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Part 90									Part 90								
819.00	24.11	V	5.3	-1.60	17.26	50.0	-32.7		819.00	23.18	V	5.3	-1.60	16.33	50.0	-33.7	
819.00	13.19	H	5.3	-1.60	6.34	50.0	-43.7		819.00	12.50	H	5.3	-1.60	5.65	50.0	-44.4	
Pt 22									Pt 22								
829.00	24.24	V	5.3	-1.50	17.44	38.5	-21.0		829.00	23.57	V	5.3	-1.50	16.77	38.5	-21.7	
829.00	13.77	H	5.3	-1.50	6.97	38.5	-31.5		829.00	12.74	H	5.3	-1.50	5.94	38.5	-32.5	
Mid Ch									Mid Ch								
831.50	23.80	V	5.3	-1.47	17.01	38.5	-21.4		831.50	22.86	V	5.3	-1.47	16.07	38.5	-22.4	
831.50	13.04	H	5.3	-1.47	6.25	38.5	-32.2		831.50	11.50	H	5.3	-1.47	4.71	38.5	-33.7	
High Ch									High Ch								
844.00	24.51	V	5.3	-1.32	17.85	38.5	-20.6		844.00	23.24	V	5.3	-1.32	16.58	38.5	-21.9	
844.00	13.90	H	5.3	-1.32	7.24	38.5	-31.2		844.00	13.21	H	5.3	-1.32	6.55	38.5	-31.9	
Rev. 11.02.2015 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									Rev. 11.02.2015 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								
LTE B26 10MHz QPSK									LTE B26 10MHz 16QAM								
Fundamental Substitution Measurement (Fc < 1GHz) UL LLC, Chamber N									Fundamental Substitution Measurement (Fc < 1GHz) UL LLC, Chamber N								
Test Equipment: <u>Substitution:</u> Dipole antenna AT0016, cable CBL055, and signal-source T374									Test Equipment: <u>Substitution:</u> Dipole antenna AT0016, cable CBL055, and signal-source T374								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									Low Ch								
831.50	24.46	V	5.3	-1.47	17.67	38.5	-20.8		831.50	23.34	V	5.3	-1.47	16.55	38.5	-21.9	
831.50	13.99	H	5.3	-1.47	7.20	38.5	-31.2		831.50	13.53	H	5.3	-1.47	6.74	38.5	-31.7	
Mid Ch									Mid Ch								
836.50	24.24	V	5.3	-1.47	17.45	38.5	-21.0		836.50	23.29	V	5.3	-1.47	16.50	38.5	-21.9	
836.50	13.70	H	5.3	-1.47	6.91	38.5	-31.5		836.50	12.78	H	5.3	-1.47	5.99	38.5	-32.5	
High Ch									High Ch								
841.50	25.01	V	5.3	-1.35	18.33	38.5	-20.1		841.50	22.82	V	5.3	-1.35	16.14	38.5	-22.3	
841.50	14.45	H	5.3	-1.35	7.77	38.5	-30.7		841.50	13.33	H	5.3	-1.35	6.65	38.5	-31.8	
Rev. 11.02.2015 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									Rev. 11.02.2015 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								
LTE B26 15MHz QPSK									LTE B26 15MHz 16QAM								

**LTE Band 41**

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBr	mW
5	QPSK	1/0	2498.5	20.02	100.46
5	QPSK	1/0	2593.0	19.39	86.90
5	QPSK	1/0	2687.5	18.85	76.74
5	16QAM	1/0	2498.5	20.12	102.80
5	16QAM	1/0	2593.0	19.49	88.92
5	16QAM	1/0	2687.5	18.84	76.56
10	QPSK	1/0	2501.0	19.85	96.61
10	QPSK	1/0	2593.0	19.23	83.75
10	QPSK	1/0	2685.0	18.93	78.16
10	16QAM	1/0	2501.0	19.86	96.83
10	16QAM	1/0	2593.0	19.26	84.33
10	16QAM	1/0	2685.0	18.96	78.70
15	QPSK	1/0	2503.5	20.10	102.33
15	QPSK	1/0	2593.0	18.00	63.10
15	QPSK	1/0	2682.5	18.31	67.76
15	16QAM	1/0	2503.5	20.25	105.93
15	16QAM	1/0	2593.0	18.31	67.76
15	16QAM	1/0	2682.5	18.42	69.50
20	QPSK	1/0	2506.0	20.22	105.20
20	QPSK	1/0	2593.0	18.42	69.50
20	QPSK	1/0	2680.0	18.11	64.71
20	16QAM	1/0	2506.0	20.28	106.66
20	16QAM	1/0	2593.0	18.55	71.61
20	16QAM	1/0	2680.0	18.12	64.86

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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									Low Ch								
2498.50	23.36	V	9.7	5.5	19.11	33.0	-13.9	PK Detector	2498.50	23.36	V	9.7	5.5	19.11	33.0	-13.9	PK Detector
2498.50	24.28	H	9.7	5.5	20.02	33.0	-13.0		2498.50	24.37	H	9.7	5.5	20.12	33.0	-12.9	
IC Low Ch									IC Low Ch								
2502.50	24.15	V	9.8	5.5	19.90	33.0	-13.1	PK Detector	2502.50	22.77	V	9.8	5.5	18.52	33.0	-14.5	PK Detector
2502.50	24.88	H	9.8	5.5	20.63	33.0	-12.4		2502.50	23.79	H	9.8	5.5	19.54	33.0	-13.5	
Mid Ch									Mid Ch								
2593.00	21.91	V	10.0	5.8	17.68	33.0	-15.3	PK Detector	2593.00	21.96	V	10.0	5.8	17.73	33.0	-15.3	PK Detector
2593.00	23.62	H	10.0	5.8	19.39	33.0	-13.6		2593.00	23.73	H	10.0	5.8	19.49	33.0	-13.5	
High Ch									High Ch								
2687.50	22.79	V	10.2	6.0	18.66	33.0	-14.3	PK Detector	2687.50	22.79	V	10.2	6.0	18.67	33.0	-14.3	PK Detector
2687.50	22.98	H	10.2	6.0	18.85	33.0	-14.1		2687.50	22.97	H	10.2	6.0	18.84	33.0	-14.2	

  

Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm	LTE B41 5MHz QPSK	LTE B41 5MHz 16QAM
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									Low Ch								
2501.00	22.86	V	9.8	5.5	18.61	33.0	-14.4	PK Detector	2501.00	22.82	V	9.8	5.5	18.57	33.0	-14.4	PK Detector
2501.00	24.10	H	9.8	5.5	19.85	33.0	-13.2		2501.00	24.11	H	9.8	5.5	19.86	33.0	-13.1	
IC Low Ch									IC Low Ch								
2505.00	22.35	V	9.8	5.5	18.09	33.0	-14.9	PK Detector	2505.00	22.36	V	9.8	5.5	18.10	33.0	-14.9	PK Detector
2505.00	24.38	H	9.8	5.5	20.12	33.0	-12.9		2505.00	24.41	H	9.8	5.5	20.15	33.0	-12.8	
Mid Ch									Mid Ch								
2593.00	23.30	V	10.0	5.8	19.07	33.0	-13.9	PK Detector	2593.00	23.33	V	10.0	5.8	19.10	33.0	-13.9	PK Detector
2593.00	23.46	H	10.0	5.8	19.23	33.0	-13.8		2593.00	23.49	H	10.0	5.8	19.26	33.0	-13.7	
High Ch									High Ch								
2685.00	22.84	V	10.2	6.0	18.69	33.0	-14.3	PK Detector	2685.00	22.87	V	10.2	6.0	18.73	33.0	-14.3	PK Detector
2685.00	23.08	H	10.2	6.0	18.93	33.0	-14.1		2685.00	23.11	H	10.2	6.0	18.96	33.0	-14.0	

  

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Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N									Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N								
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch									Low Ch								
2503.50	23.31	V	9.8	5.5	19.05	33.0	-13.9	PK Detector	2503.50	23.42	V	9.8	5.5	19.17	33.0	-13.8	PK Detector
2503.50	24.36	H	9.8	5.5	20.10	33.0	-12.9		2503.50	24.51	H	9.8	5.5	20.25	33.0	-12.7	
IC Low Ch									IC Low Ch								
2507.50	22.83	V	9.8	5.5	18.57	33.0	-14.4	PK Detector	2507.50	21.64	V	9.8	5.5	17.38	33.0	-15.6	PK Detector
2507.50	24.48	H	9.8	5.5	20.22	33.0	-12.8		2507.50	24.71	H	9.8	5.5	20.45	33.0	-12.6	
Mid Ch									Mid Ch								
2593.00	20.91	V	10.0	5.8	16.68	33.0	-16.3	PK Detector	2593.00	21.15	V	10.0	5.8	16.92	33.0	-16.1	PK Detector
2593.00	22.24	H	10.0	5.8	18.00	33.0	-15.0		2593.00	22.55	H	10.0	5.8	18.31	33.0	-14.7	
High Ch									High Ch								
2682.50	20.72	V	10.2	6.0	16.55	33.0	-16.4	PK Detector	2682.50	20.80	V	10.2	6.0	16.63	33.0	-16.4	PK Detector
2682.50	22.47	H	10.2	6.0	18.31	33.0	-14.7		2682.50	22.59	H	10.2	6.0	18.42	33.0	-14.6	

  

Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm	LTE B41 15MHz QPSK	LTE B41 15MHz 16QAM
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Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N								
Fundamental Substitution Measurement (Fc > 1GHz) UL LLC, Chamber N								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
2506.00	23.72	V	9.8	5.5	19.46	33.0	-13.5	PK Detector
2506.00	24.47	H	9.8	5.5	20.22	33.0	-12.8	
Mid Ch								
2510.00	21.77	V	9.8	5.5	17.50	33.0	-15.5	PK Detector
2510.00	22.76	H	9.8	5.5	18.49	33.0	-14.5	
High Ch								
2593.00	21.54	V	10.0	5.8	17.31	33.0	-15.7	PK Detector
2593.00	22.65	H	10.0	5.8	18.42	33.0	-14.6	
Low Ch								
2680.00	21.87	V	10.2	6.0	17.70	33.0	-15.3	PK Detector
2680.00	22.29	H	10.2	6.0	18.11	33.0	-14.9	

  

Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm	Rev. 11.02.2015 Note: For Band 4 EIRP limit is 30dBm
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
2506.00	23.81	V	9.8	5.5	19.55	33.0	-13.5	PK Detector
2506.00	24.54	H	9.8	5.5	20.28	33.0	-12.7	
Mid Ch								
2510.00	22.05	V	9.8	5.5	17.78	33.0	-15.2	PK Detector
2510.00	24.97	H	9.8	5.5	20.70	33.0	-12.3	
High Ch								
2593.00	21.67	V	10.0	5.8	17.44	33.0	-15.6	PK Detector
2593.00	22.78	H	10.0	5.8	18.55	33.0	-14.5	
Low Ch								
2680.00	21.96	V	10.2	6.0	17.78	33.0	-15.2	PK Detector
2680.00	22.29	H	10.2	6.0	18.12	33.0	-14.9	

LTE B41 20MHz QPSK

LTE B41 20MHz 16QAM

## 14.2. FIELD STRENGTH OF SPURIOUS RADIATION

### RULE PART(S)

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

### 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.

### 14.2.1. SPURIOUS RADIATION PLOTS

**GSM**

## WCDMA

High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber									
Company: SOMIC Project #: 11139405 Date: 2016-04-11 Text Engineer: Brian Klevra Configuration: EUT w/ AC Adaptor and Headphones (Sample #2312244 Y-Axis) Model: REL 99_1900MHz Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										Company: SOMIC Project #: 11139405 Date: 2016-04-11 Text Engineer: Brian Klevra Configuration: EUT w/ AC Adaptor and Headphones (Sample #2312244 Y-Axis) Model: HSDPA_1900MHz Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
EIRP										EIRP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta
Low Channel (1852.4MHz)										Low Channel (1852.4MHz)									
3.76	-63.4	H	3.0	-11.4	39.7	1.0	-50.5	-13.0	-37.1	3.76	-63.4	H	3.0	-11.4	39.7	1.0	-50.4	-13.0	-37.4
5.56	-63.4	H	3.0	-9.0	40.1	1.0	-49.0	-13.0	-36.0	5.56	-63.4	H	3.0	-9.0	40.1	1.0	-49.9	-13.0	-35.9
7.41	-65.0	H	3.0	-8.6	39.6	1.0	-46.6	-13.0	-33.6	7.41	-63.8	H	3.0	-7.4	39.0	1.0	-45.3	-13.0	-32.3
3.71	-61.4	V	3.0	-10.6	39.7	1.0	-49.4	-13.0	-36.4	3.71	-61.6	V	3.0	-10.8	39.7	1.0	-49.5	-13.0	-36.5
5.56	-62.6	V	3.0	-9.0	40.1	1.0	-48.3	-13.0	-35.3	5.56	-63.3	V	3.0	-9.9	40.1	1.0	-49.6	-13.0	-36.0
7.41	-64.5	V	3.0	-120.6	39.6	1.0	-62.7	-13.0	-99.7	7.41	-64.6	V	3.0	-85.5	39.0	1.0	-46.5	-13.0	-33.5
Mid Channel (1880.0)										Mid Channel (1880.0)									
3.76	-61.5	H	3.0	-11.1	39.8	1.0	-49.8	-13.0	-36.8	3.76	-62.1	H	3.0	-14.6	39.8	1.0	-50.4	-13.0	-37.4
5.56	-63.2	H	3.0	-9.5	40.0	1.0	-48.9	-13.0	-36.0	5.56	-63.1	H	3.0	-9.5	40.0	1.0	-49.5	-13.0	-35.5
7.52	-65.0	H	3.0	-8.5	38.9	1.0	-45.5	-13.0	-33.5	7.52	-64.9	H	3.0	-8.4	38.9	1.0	-46.3	-13.0	-33.3
3.76	-62.5	V	3.0	-11.7	39.8	1.0	-50.5	-13.0	-37.5	3.76	-62.2	V	3.0	-11.4	39.8	1.0	-50.1	-13.0	-37.1
5.56	-62.7	V	3.0	-9.2	40.0	1.0	-49.2	-13.0	-35.2	5.56	-62.3	V	3.0	-8.8	40.0	1.0	-47.8	-13.0	-34.8
7.52	-64.7	V	3.0	-8.4	38.5	1.0	-44.4	-13.0	-33.4	7.52	-65.0	V	3.0	-8.8	38.5	1.0	-46.7	-13.0	-33.7
High Channel (1907.6MHz)										High Channel (1907.6MHz)									
3.82	-61.7	H	3.0	-11.1	39.8	1.0	-49.9	-13.0	-36.9	3.82	-61.7	H	3.0	-11.1	39.8	1.0	-49.9	-13.0	-36.9
5.63	-63.8	H	3.0	-9.0	40.0	1.0	-48.7	-13.0	-35.1	5.63	-63.7	H	3.0	-9.7	40.0	1.0	-46.0	-13.0	-32.0
7.63	-65.0	H	3.0	-7.9	38.9	1.0	-45.5	-13.0	-33.5	7.63	-64.6	V	3.0	-8.3	38.9	1.0	-46.2	-13.0	-33.2
3.82	-61.1	V	3.0	-10.9	39.8	1.0	-49.6	-13.0	-36.6	3.82	-60.5	V	3.0	-9.6	39.8	1.0	-48.4	-13.0	-35.4
5.72	-61.7	V	3.0	-8.9	40.0	1.0	-47.6	-13.0	-34.0	5.72	-62.5	V	3.0	-8.9	40.0	1.0	-47.5	-13.0	-34.1
7.63	-64.7	V	3.0	-8.3	38.3	1.0	-46.2	-13.0	-33.2	7.63	-64.6	V	3.0	-8.3	38.3	1.0	-46.2	-13.0	-33.2
Rev. 03.19.15										Rev. 03.19.15									
<b>B2 REL99</b>										<b>B2 HSDPA</b>									
High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber									
Company: SOMIC Project #: 11139405 Date: 2016-04-11 Text Engineer: Mark Notting Configuration: EUT w/ AC Adaptor and Headphones (Sample #2312244 Y-Axis) Model: REL 99_1700MHz Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										Company: SOMIC Project #: 11139405 Date: 2016-04-11 Text Engineer: Mark Notting Configuration: EUT w/ AC Adaptor and Headphones (Sample #2312244 Y-Axis) Model: HSDPA_1700MHz Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
EIRP										EIRP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta
Low Channel (1712.4MHz)										Low Channel (1712.4MHz)									
3.47	-63.7	H	3.0	-14.5	39.6	1.0	-53.0	-13.0	-40.0	3.47	-63.9	H	3.0	-14.6	39.6	1.0	-53.2	-13.0	-40.2
5.14	-63.3	H	3.0	-10.4	40.3	1.0	-49.7	-13.0	-36.7	5.14	-63.2	H	3.0	-10.3	40.3	1.0	-49.6	-13.0	-36.6
6.85	-64.7	H	3.0	-9.0	39.2	1.0	-47.5	-13.0	-34.2	6.85	-65.0	H	3.0	-9.5	39.2	1.0	-47.7	-13.0	-34.7
3.42	-64.4	V	3.0	-14.0	39.6	1.0	-52.6	-13.0	-39.6	3.42	-64.2	V	3.0	-13.8	39.6	1.0	-52.4	-13.0	-39.4
5.14	-64.5	V	3.0	-10.9	40.3	1.0	-49.9	-13.0	-36.4	5.14	-64.6	V	3.0	-10.1	40.3	1.0	-49.8	-13.0	-36.5
6.85	-65.0	V	3.0	-8.6	39.2	1.0	-47.9	-13.0	-34.8	6.85	-64.4	V	3.0	-10.1	39.2	1.0	-49.7	-13.0	-34.5
Mid Channel (1732.6MHz)										Mid Channel (1732.6MHz)									
3.47	-63.7	H	3.0	-15.9	39.6	1.0	-52.5	-13.0	-39.5	3.47	-63.9	H	3.0	-14.1	39.6	1.0	-52.7	-13.0	-39.7
5.20	-64.2	H	3.0	-10.1	40.3	1.0	-49.2	-13.0	-36.4	5.20	-64.2	H	3.0	-10.5	40.3	1.0	-49.6	-13.0	-36.6
6.93	-65.5	H	3.0	-9.7	39.1	1.0	-47.8	-13.0	-34.8	6.93	-65.6	H	3.0	-9.8	39.1	1.0	-47.9	-13.0	-34.9
3.47	-64.0	V	3.0	-13.6	39.6	1.0	-52.1	-13.0	-39.1	3.47	-64.1	V	3.0	-13.6	39.6	1.0	-52.2	-13.0	-39.2
5.20	-63.3	V	3.0	-10.4	40.3	1.0	-48.8	-13.0	-36.8	5.20	-64.3	V	3.0	-11.5	40.3	1.0	-50.6	-13.0	-37.8
6.93	-65.3	V	3.0	-9.8	39.1	1.0	-47.9	-13.0	-34.9	6.93	-65.0	V	3.0	-9.1	39.1	1.0	-47.9	-13.0	-34.9
High Channel (1752.6MHz)										High Channel (1752.6MHz)									
3.51	-64.2	H	3.0	-14.3	39.6	1.0	-53.0	-13.0	-40.0	3.51	-64.0	H	3.0	-14.2	39.6	1.0	-52.8	-13.0	-39.8
5.01	-64.7	H	3.0	-10.9	40.3	1.0	-49.8	-13.0	-36.8	5.01	-65.7	H	3.0	-9.7	39.1	1.0	-47.8	-13.0	-34.8
7.01	-65.7	H	3.0	-8.0	39.1	1.0	-46.8	-13.0	-33.8	7.01	-65.7	H	3.0	-9.7	39.1	1.0	-47.8	-13.0	-34.8
3.51	-64.3	V	3.0	-15.8	39.6	1.0	-52.4	-13.0	-39.4	3.51	-64.4	V	3.0	-15.6	39.6	1.0	-52.2	-13.0	-39.2
5.26	-64.4	V	3.0	-12.5	40.3	1.0	-49.8	-13.0	-36.8	5.26	-64.2	V	3.0	-10.2	40.3	1.0	-49.5	-13.0	-36.5
7.01	-65.7	V	3.0	-10.1	39.1	1.0	-46.1	-13.0	-35.1	7.01	-65.0	V	3.0	-9.4	39.1	1.0	-47.5	-13.0	-34.5
Rev. 03.19.15										Rev. 03.19.15									
<b>B4 REL99</b>										<b>B4 HSDPA</b>									
High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber									
Company: SOMIC Project #: 11139405 Date: 2016-04-11 Text Engineer: Mark Notting Configuration: EUT w/ AC Adaptor and Headphones (Sample #2312244 Z-Axis) Model: REL 99_800MHz Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										Company: SOMIC Project #: 11139405 Date: 2016-04-11 Text Engineer: Mark Notting Configuration: EUT w/ AC Adaptor and Headphones (Sample #2312244 Z-Axis) Model: HSDPA_800MHz Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
EIRP										EIRP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta
Low Channel (B26.4MHz)										Low Channel (B26.4MHz)									
1.65	-64.5	H	3.0	-19.0	39.9	1.0	-57.9	-13.0	-44.9	1.65	-64.5	H	3.0	-19.0	39.9	1.0	-57.9	-13.0	-44.9
2.48	-64.3	H	3.0	-17.6	39.5	1.0	-54.7	-13.0	-43.7	2.48	-64.4	H	3.0						

## LTE Band 2

High Frequency Substitution Measurement UL RTP Radiated Chamber										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-27 <b>Test Engineer:</b> Mark Notting <b>Configuration:</b> EUT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 2, 16QAM										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	
Low Channel (1851-1880MHz)										
3.70	-64.6	H	3.0	-14.2	39.7	1.0	-53.0	-13.0	-40.0	
5.55	-62.5	H	3.0	-9.0	40.1	1.0	-49.1	-13.0	-35.1	
7.40	-60.6	H	3.0	-10.6	39.9	1.0	-48.3	-13.0	-36.0	
3.70	-64.0	V	3.0	-13.3	39.7	1.0	-52.0	-13.0	-39.0	
5.55	-62.2	V	3.0	-8.8	40.1	1.0	-48.9	-13.0	-34.8	
7.40	-67.5	V	3.0	-11.4	39.9	1.0	-49.4	-13.0	-36.4	
Mid Channel (1880MHz)										
3.70	-62.5	H	3.0	-13.0	39.8	1.0	-52.1	-13.0	-38.8	
5.64	-61.5	H	3.0	-7.8	40.0	1.0	-49.9	-13.0	-33.9	
7.52	-67.3	H	3.0	-10.8	39.8	1.0	-48.7	-13.0	-35.7	
3.70	-64.3	V	3.0	-13.3	39.8	1.0	-52.6	-13.0	-39.1	
5.64	-63.0	V	3.0	-8.5	40.0	1.0	-49.5	-13.0	-35.5	
7.52	-68.4	V	3.0	-12.2	39.9	1.0	-49.1	-13.0	-37.1	
High Channel (1909.3MHz)										
3.82	-63.6	H	3.0	-13.0	39.8	1.0	-51.8	-13.0	-38.8	
5.73	-64.4	H	3.0	-11.0	40.0	1.0	-50.6	-13.0	-37.0	
7.64	-66.6	H	3.0	-10.0	39.8	1.0	-49.7	-13.0	-34.9	
3.82	-64.0	V	3.0	-13.1	39.8	1.0	-52.0	-13.0	-39.0	
5.73	-65.1	V	3.0	-11.4	40.0	1.0	-50.4	-13.0	-37.4	
7.64	-67.2	V	3.0	-10.0	39.9	1.0	-49.7	-13.0	-35.1	
Rev. 10.28.15										
LTE B2 1.4MHz QPSK										
<b>High Frequency Substitution Measurement UL RTP Radiated Chamber</b>										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-27 <b>Test Engineer:</b> Mark Notting <b>Configuration:</b> EUT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 2, 16QAM										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	
Low Channel (1851-1880MHz)										
3.70	-64.7	H	3.0	-14.4	39.7	1.0	-53.1	-13.0	-40.1	
5.55	-62.6	H	3.0	-9.6	40.1	1.0	-49.3	-13.0	-35.6	
7.41	-60.5	H	3.0	-10.5	39.9	1.0	-48.6	-13.0	-35.4	
3.70	-63.7	V	3.0	-13.0	39.7	1.0	-51.7	-13.0	-38.7	
5.55	-62.3	V	3.0	-8.9	40.1	1.0	-48.6	-13.0	-35.0	
7.41	-67.4	V	3.0	-11.3	39.9	1.0	-49.2	-13.0	-36.2	
Mid Channel (1880MHz)										
3.70	-64.6	H	3.0	-14.1	39.8	1.0	-52.9	-13.0	-39.9	
5.64	-62.4	H	3.0	-8.7	40.0	1.0	-47.7	-13.0	-34.7	
7.52	-67.5	H	3.0	-11.5	39.8	1.0	-48.5	-13.0	-36.2	
3.70	-64.8	V	3.0	-14.0	39.8	1.0	-52.8	-13.0	-39.8	
5.64	-63.4	V	3.0	-8.9	40.0	1.0	-47.6	-13.0	-34.8	
7.52	-66.8	V	3.0	-10.6	39.9	1.0	-48.5	-13.0	-35.5	
High Channel (1908.5MHz)										
3.82	-64.2	H	3.0	-15.6	39.8	1.0	-52.5	-13.0	-39.6	
5.73	-64.4	H	3.0	-11.1	40.0	1.0	-50.6	-13.0	-37.1	
7.63	-67.3	H	3.0	-10.6	39.8	1.0	-49.5	-13.0	-35.5	
3.82	-64.5	V	3.0	-15.6	39.8	1.0	-52.5	-13.0	-39.5	
5.73	-64.9	V	3.0	-11.3	40.0	1.0	-50.2	-13.0	-37.2	
7.63	-67.7	V	3.0	-11.4	39.8	1.0	-49.5	-13.0	-36.3	
Rev. 10.28.15										
LTE B2 3MHz QPSK										
<b>High Frequency Substitution Measurement UL RTP Radiated Chamber</b>										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-27 <b>Test Engineer:</b> Mark Notting <b>Configuration:</b> EUT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 2, 3MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	
Low Channel (1851-1880MHz)										
3.71	-64.5	H	3.0	-14.2	39.7	1.0	-52.9	-13.0	-39.9	
5.55	-62.4	H	3.0	-9.6	40.1	1.0	-49.3	-13.0	-35.6	
7.41	-60.5	H	3.0	-10.7	39.9	1.0	-48.6	-13.0	-35.6	
3.71	-64.7	V	3.0	-14.4	39.7	1.0	-52.7	-13.0	-39.7	
5.55	-62.1	V	3.0	-8.7	40.1	1.0	-47.8	-13.0	-34.7	
7.41	-67.1	V	3.0	-10.7	39.9	1.0	-48.6	-13.0	-36.2	
Mid Channel (1880MHz)										
3.71	-64.6	H	3.0	-14.3	39.8	1.0	-53.1	-13.0	-40.1	
5.64	-62.5	H	3.0	-9.0	40.0	1.0	-48.0	-13.0	-35.0	
7.52	-67.4	H	3.0	-10.9	39.8	1.0	-48.8	-13.0	-35.8	
3.71	-64.8	V	3.0	-14.0	39.8	1.0	-52.7	-13.0	-39.8	
5.64	-63.1	V	3.0	-8.7	40.1	1.0	-47.9	-13.0	-34.8	
7.52	-68.8	V	3.0	-10.7	39.9	1.0	-48.6	-13.0	-35.6	
High Channel (1908.5MHz)										
3.82	-64.5	H	3.0	-15.1	39.8	1.0	-51.9	-13.0	-39.8	
5.73	-64.8	H	3.0	-10.0	40.0	1.0	-50.0	-13.0	-37.0	
7.63	-67.4	H	3.0	-10.8	39.8	1.0	-48.7	-13.0	-35.7	
3.82	-64.7	V	3.0	-15.0	39.8	1.0	-52.6	-13.0	-39.6	
5.73	-65.7	V	3.0	-11.7	40.0	1.0	-49.7	-13.0	-37.6	
7.63	-68.0	V	3.0	-11.7	39.8	1.0	-49.7	-13.0	-36.7	
Rev. 10.28.15										
LTE B2 3MHz 16QAM										
<b>High Frequency Substitution Measurement UL RTP Radiated Chamber</b>										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-27 <b>Test Engineer:</b> Mark Notting <b>Configuration:</b> EUT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 2, 3MHz 16QAM										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	
Low Channel (1851-1880MHz)										
3.71	-64.5	H	3.0	-14.3	39.7	1.0	-51.7	-13.0	-40.1	
5.55	-62.6	H	3.0	-9.0	40.1	1.0	-48.0	-13.0	-35.5	
7.41	-60.5	H	3.0	-10.7	39.9	1.0	-48.6	-13.0	-35.8	
3.71	-64.7	V	3.0	-14.4	39.7	1.0	-52.7	-13.0	-39.7	
5.55	-62.5	V	3.0	-8.7	40.1	1.0	-47.8	-13.0	-34.7	
7.41	-67.5	V	3.0	-10.7	39.9	1.0	-48.6	-13.0	-36.1	
Mid Channel (1880MHz)										
3.71	-64.6	H	3.0	-14.5	39.8	1.0	-53.1	-13.0	-40.3	
5.64	-62.5	H	3.0	-9.0	40.0	1.0	-49.0	-13.0	-34.9	
7.52	-67.5	H	3.0	-10.9	39.8	1.0	-48.8	-13.0	-35.8	
3.71	-64.8	V	3.0	-14.0	39.8	1.0	-52.7	-13.0	-39.8	
5.64	-63.1	V	3.0	-8.7	40.1	1.0	-47.9	-13.0	-34.8	
7.52	-68.1	V	3.0	-10.7	39.8	1.0	-48.6	-13.0	-36.6	
High Channel (1907.5MHz)										
3.82	-64.5	H	3.0	-15.6	39.8	1.0	-50.8	-13.0	-39.8	
5.72	-64.8	H	3.0	-10.0	40.0	1.0	-50.0	-13.0	-37.6	
7.63	-67.4	H	3.0	-10.8	39.8	1.0	-48.7	-13.0	-35.7	
3.82	-64.7	V	3.0	-15.7	39.8	1.0	-52.6	-13.0	-39.7	
5.72	-65.7	V	3.0	-11.7	40.0	1.0	-49.7	-13.0	-37.6	
7.63	-68.2	V	3.0	-10.9	39.8	1.0	-48.8	-13.0	-35.8	
Rev. 10.28.15										

LTE B2 5MHz QPSK											LTE B2 5MHz 16QAM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
High Frequency Substitution Measurement UL RTP Radiated Chamber											High Frequency Substitution Measurement UL RTP Radiated Chamber																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-08 <b>Test Engineer:</b> Mark Nolling <b>Configuration:</b> EUT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 2: 10MHz QPSK											<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-08 <b>Test Engineer:</b> Mark Nolling <b>Configuration:</b> EUT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 2: 10MHz 16QAM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable											<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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(H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Low Channel (1850MHz)										3.72	-64.7	H	3.0	-13.9	39.8	1.0	-53.1	-13.0	-40.1	5.67	-67.1	H	3.0	-20.2	40.1	1.0	-49.5	-13.0	-34.8	7.62	-67.2	H	3.0	-10.8	39.0	1.0	-48.7	-13.0	-35.8	3.72	-64.7	V	3.0	-13.1	39.8	1.0	-54.0	-13.0	-41.0	5.67	-65.6	V	3.0	-9.4	40.1	1.0	-48.5	-13.0	-35.1	7.62	-67.3	V	3.0	-11.0	39.0	1.0	-48.7	-13.0	-35.9	Mid Channel (1880MHz)										3.76	-65.5	H	3.0	-15.2	39.8	1.0	-55.8	-13.0	-40.8	5.64	-63.7	H	3.0	-10.9	40.0	1.0	-49.0	-13.0	-35.8	7.62	-68.6	H	3.0	-11.9	38.9	1.0	-48.1	-13.0	-36.2	3.76	-65.5	V	3.0	-14.6	39.8	1.0	-53.0	-13.0	-40.0	5.64	-63.7	V	3.0	-9.5	40.0	1.0	-48.7	-13.0	-35.7	7.62	-68.6	V	3.0	-12.4	38.9	1.0	-49.3	-13.0	-36.5	High Channel (1905MHz)										3.81	-64.8	H	3.0	-14.5	39.8	1.0	-53.3	-13.0	-40.3	5.71	-65.6	H	3.0	-11.2	40.0	1.0	-50.9	-13.0	-37.2	7.61	-67.6	H	3.0	-10.9	38.9	1.0	-48.8	-13.0	-35.9	3.81	-64.8	V	3.0	-14.2	39.8	1.0	-53.0	-13.0	-40.0	5.71	-65.6	V	3.0	-11.0	40.0	1.0	-52.7	-13.0	-37.0	7.61	-67.6	V	3.0	-11.6	38.9	1.0	-49.5	-13.0	-35.8
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3.81	-64.8	H	3.0	-14.9	39.8	1.0	-53.1	-13.0	-40.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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3.72	-64.7	H	3.0	-13.9	39.8	1.0	-53.1	-13.0	-40.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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5.71	-65.6	H	3.0	-11.2	40.0	1.0	-50.9	-13.0	-37.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
7.61	-67.6	H	3.0	-10.9	38.9	1.0	-48.8	-13.0	-35.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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5.71	-65.6	V	3.0	-11.0	40.0	1.0	-52.7	-13.0	-37.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
7.61	-67.6	V	3.0	-11.6	38.9	1.0	-49.5	-13.0	-35.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

LTE B2 20MHz QPSK	LTE B2 20MHz 16QAM
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## LTE Band 4

High Frequency Substitution Measurement UL RTP Radiated Chamber										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 4, 1.4MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (1710-1751MHz)										
5.42	-62.6	H	3.0	39.6	1.0	52.7	-13.0	39.7		
5.13	-61.9	H	3.0	39.6	1.0	49.1	-13.0	36.1		
6.84	-64.8	H	3.0	39.1	1.0	47.3	-13.0	34.3		
3.42	-62.0	V	3.0	39.6	1.0	52.2	-13.0	37.2		
5.13	-59.8	V	3.0	7.0	40.3	1.0	48.3	-13.0	33.3	
7.01	-64.5	V	3.0	39.2	1.0	47.6	-13.0	34.0		
Mid Channel (1732-1751MHz)										
3.47	-63.5	H	3.0	39.6	1.0	52.1	-13.0	39.1		
5.20	-62.9	H	3.0	7.0	40.3	1.0	48.7	-13.0	37.7	
6.93	-64.3	H	3.0	39.1	1.0	46.6	-13.0	33.6		
3.47	-62.8	V	3.0	39.6	1.0	51.8	-13.0	38.0		
5.20	-62.6	V	3.0	9.8	40.3	1.0	49.2	-13.0	36.2	
6.93	-64.1	V	3.0	39.1	1.0	47.7	-13.0	33.7		
High Channel (1754-1785MHz)										
3.51	-63.9	H	3.0	14.0	39.6	1.0	52.6	-13.0	39.6	
5.26	-61.9	H	3.0	8.5	40.3	1.0	47.7	-13.0	34.7	
7.07	-63.5	H	3.0	7.4	39.1	1.0	45.6	-13.0	32.5	
3.51	-63.9	V	3.0	12.7	39.6	1.0	51.3	-13.0	38.3	
5.26	-62.6	V	3.0	9.8	40.3	1.0	49.2	-13.0	36.2	
7.02	-65.7	V	3.0	10.1	39.1	1.0	48.2	-13.0	35.2	
Rev. 10.28.15										
LTE B4 1.4MHz QPSK										
High Frequency Substitution Measurement UL RTP Radiated Chamber										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 4, 1.4MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (1711-1751MHz)										
5.14	-63.6	H	3.0	14.4	39.6	1.0	52.0	-13.0	40.0	
5.14	-59.4	H	3.0	6.5	40.3	1.0	45.9	-13.0	32.9	
6.85	-65.4	H	3.0	9.7	39.2	1.0	47.9	-13.0	34.9	
3.42	-64.4	V	3.0	14.0	39.6	1.0	52.4	-13.0	39.4	
5.14	-62.7	V	3.0	9.9	40.3	1.0	49.2	-13.0	36.2	
6.85	-64.6	V	3.0	9.2	39.2	1.0	47.4	-13.0	34.4	
Mid Channel (1732-1751MHz)										
3.47	-64.6	H	3.0	13.8	39.6	1.0	52.4	-13.0	39.4	
5.20	-62.4	H	3.0	7.5	40.3	1.0	48.1	-13.0	37.1	
6.93	-65.6	H	3.0	39.1	1.0	47.9	-13.0	34.9		
3.47	-64.0	V	3.0	13.5	39.6	1.0	51.1	-13.0	37.0	
5.20	-64.4	V	3.0	1.6	40.3	1.0	49.9	-13.0	37.0	
6.93	-64.3	V	3.0	8.6	39.1	1.0	48.9	-13.0	33.9	
High Channel (1753-1804MHz)										
3.51	-63.9	H	3.0	14.0	39.6	1.0	52.6	-13.0	39.6	
5.26	-62.1	H	3.0	9.0	40.3	1.0	47.1	-13.0	38.3	
7.01	-64.1	H	3.0	9.4	39.1	1.0	47.4	-13.0	34.4	
3.51	-63.6	V	3.0	11.1	39.6	1.0	51.1	-13.0	38.7	
5.26	-62.4	V	3.0	2.4	40.3	1.0	48.7	-13.0	35.7	
7.01	-64.4	V	3.0	8.8	39.1	1.0	46.9	-13.0	33.9	
Rev. 10.28.16										
LTE B4 3MHz QPSK										
High Frequency Substitution Measurement UL RTP Radiated Chamber										
<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 4, 3MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (1711-1751MHz)										
5.14	-63.6	H	3.0	14.4	39.6	1.0	52.6	-13.0	39.6	
5.14	-61.9	H	3.0	9.1	40.3	1.0	48.4	-13.0	35.0	
6.85	-64.6	H	3.0	9.1	39.2	1.0	47.2	-13.0	34.2	
3.43	-64.8	V	3.0	14.4	39.6	1.0	52.9	-13.0	39.9	
5.14	-62.7	V	3.0	2.9	40.3	1.0	48.2	-13.0	38.3	
6.85	-64.4	V	3.0	10.1	39.2	1.0	48.2	-13.0	35.2	
Mid Channel (1732-1751MHz)										
3.47	-63.4	H	3.0	13.7	39.6	1.0	52.5	-13.0	39.3	
5.20	-62.7	H	3.0	7.7	40.3	1.0	47.9	-13.0	34.7	
6.93	-65.6	H	3.0	9.7	39.1	1.0	47.9	-13.0	34.0	
3.47	-63.6	V	3.0	13.1	39.6	1.0	51.7	-13.0	38.7	
5.20	-61.1	V	3.0	8.3	40.3	1.0	47.6	-13.0	34.6	
6.93	-65.1	V	3.0	9.6	39.1	1.0	47.7	-13.0	34.7	
High Channel (1752-1804MHz)										
3.51	-64.6	H	3.0	14.7	39.6	1.0	53.4	-13.0	40.4	
5.26	-62.1	H	3.0	7.9	40.3	1.0	47.0	-13.0	37.0	
7.01	-64.9	H	3.0	8.9	39.1	1.0	47.0	-13.0	34.0	
3.51	-64.2	V	3.0	14.2	39.6	1.0	52.8	-13.0	39.8	
5.26	-63.3	V	3.0	10.4	40.3	1.0	49.7	-13.0	36.7	
7.01	-65.5	V	3.0	9.8	39.1	1.0	47.9	-13.0	34.9	
Rev. 10.28.15										
LTE B4 3MHz 16QAM										
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EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (1711-1751MHz)										
5.14	-63.5	H	3.0	14.7	39.6	1.0	53.3	-13.0	40.3	
5.14	-62.4	H	3.0	9.5	40.3	1.0	46.6	-13.0	35.6	
6.85	-65.5	H	3.0	9.4	39.2	1.0	46.7	-13.0	35.7	
3.43	-64.1	V	3.0	13.7	39.6	1.0	52.2	-13.0	39.2	
5.14	-62.4	V	3.0	7.7	40.3	1.0	46.7	-13.0	34.0	
6.85	-65.7	V	3.0	8.7	39.1	1.0	46.7	-13.0	34.0	
Mid Channel (1732-1751MHz)										
3.47	-63.8	H	3.0	14.0	39.6	1.0	52.6	-13.0	39.6	
5.20	-62.1	H	3.0	7.5	40.3	1.0	46.3	-13.0	34.0	
6.93	-65.1	H	3.0	8.6	39.1	1.0	46.3	-13.0	34.0	
3.47	-63.6	V	3.0	13.1	39.6	1.0	51.7	-13.0	38.7	
5.20	-61.1	V	3.0	8.3	40.3	1.0	47.6	-13.0	34.6	
6.93	-65.1	V	3.0	9.0	39.1	1.0	47.7	-13.0	34.7	
High Channel (1752-1804MHz)										
3.51	-64.7	H	3.0	14.7	39.6	1.0	52.5	-13.0	39.5	
5.26	-63.7	H	3.0	9.5	40.3	1.0	46.8	-13.0	35.6	
7.01	-65.0	H	3.0	9.0	39.1	1.0	46.0	-13.0	34.1	
3.51	-64.1	V	3.0	13.7						

LTE B4 5MHz QPSK											LTE B4 5MHz 16QAM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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5.24	-61.6	V	3.0	-8.9	40.3	1.0	-48.2	-13.0	-35.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE Band 4: 20MHz QPSK											<b>Company:</b> SOMC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE Band 4: 20MHz 16QAM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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<table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance</th><th>EIRP @ TX Ant End (dBm)</th><th>Preamp</th><th>Attenuator</th><th>EIRP</th><th>Limit</th><th>Delta</th></tr> </thead> <tbody> <tr><td>Low Channel (1720MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.44</td><td>-63.9</td><td>H</td><td>3.0</td><td>-14.1</td><td>39.6</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.8</td></tr> <tr><td>5.20</td><td>-60.2</td><td>H</td><td>3.0</td><td>-7.6</td><td>40.3</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td></tr> <tr><td>6.88</td><td>-66.0</td><td>H</td><td>3.0</td><td>-9.9</td><td>39.1</td><td>1.0</td><td>-48.0</td><td>-13.0</td><td>-35.0</td></tr> <tr><td>Mid Channel (1732.5MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.44</td><td>-63.8</td><td>V</td><td>3.0</td><td>-14.3</td><td>39.6</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-39.9</td></tr> <tr><td>5.20</td><td>-60.5</td><td>V</td><td>3.0</td><td>-7.9</td><td>40.3</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td></tr> <tr><td>6.93</td><td>-65.5</td><td>V</td><td>3.0</td><td>-9.3</td><td>39.1</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td></tr> <tr><td>High Channel (1747.5MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.49</td><td>-64.4</td><td>H</td><td>3.0</td><td>-14.3</td><td>39.6</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td></tr> <tr><td>5.24</td><td>-61.3</td><td>H</td><td>3.0</td><td>-8.6</td><td>40.3</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td></tr> <tr><td>6.88</td><td>-65.5</td><td>H</td><td>3.0</td><td>-9.3</td><td>39.1</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td></tr> <tr><td>3.49</td><td>-64.4</td><td>V</td><td>3.0</td><td>-14.3</td><td>39.6</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td></tr> <tr><td>5.24</td><td>-61.3</td><td>V</td><td>3.0</td><td>-8.7</td><td>40.3</td><td>1.0</td><td>-49.7</td><td>-</td></tr></tbody></table>	Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Low Channel (1720MHz)										3.44	-63.9	H	3.0	-14.1	39.6	1.0	-51.3	-13.0	-38.8	5.20	-60.2	H	3.0	-7.6	40.3	1.0	-47.0	-13.0	-34.0	6.88	-66.0	H	3.0	-9.9	39.1	1.0	-48.0	-13.0	-35.0	Mid Channel (1732.5MHz)										3.44	-63.8	V	3.0	-14.3	39.6	1.0	-51.1	-13.0	-39.9	5.20	-60.5	V	3.0	-7.9	40.3	1.0	-47.2	-13.0	-34.2	6.93	-65.5	V	3.0	-9.3	39.1	1.0	-47.6	-13.0	-34.6	High Channel (1747.5MHz)										3.49	-64.4	H	3.0	-14.3	39.6	1.0	-51.6	-13.0	-38.6	5.24	-61.3	H	3.0	-8.6	40.3	1.0	-49.7	-13.0	-36.7	6.88	-65.5	H	3.0	-9.3	39.1	1.0	-48.2	-13.0	-35.2	3.49	-64.4	V	3.0	-14.3	39.6	1.0	-51.6	-13.0	-38.6	5.24	-61.3	V	3.0	-8.7	40.3	1.0	-49.7	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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6.88	-66.0	H	3.0	-9.9	39.1	1.0	-48.0	-13.0	-35.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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3.44	-63.8	V	3.0	-14.3	39.6	1.0	-51.1	-13.0	-39.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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3.49	-64.4	H	3.0	-14.3	39.6	1.0	-51.6	-13.0	-38.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5.24	-61.3	H	3.0	-8.6	40.3	1.0	-49.7	-13.0	-36.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
6.88	-65.5	H	3.0	-9.3	39.1	1.0	-48.2	-13.0	-35.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3.49	-64.4	V	3.0	-14.3	39.6	1.0	-51.6	-13.0	-38.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5.24	-61.3	V	3.0	-8.7	40.3	1.0	-49.7	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

LTE B4 20MHz QPSK	LTE B4 20MHz 16QAM
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## LTE Band 5

High Frequency Substitution Measurement UL RTP Radiated Chamber										
Company: SOMIC Project #: 11139405 Date: 2016-04-08 Test Engineer: Brian Kiewra Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) Model: LTE Band 5, 1.4MHz QPSK										
Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (0.24..0.81Hz)										
1.70	-61.6	H	3.0	-16.4	39.9	1.0	-56.3	-13.0	-43.3	
2.47	-62.4	H	3.0	-15.0	39.3	1.0	-54.4	-13.0	-41.1	
3.30	-62.4	H	3.0	-15.0	39.5	1.0	-51.5	-13.0	-38.5	
1.65	-61.8	V	3.0	-16.0	39.9	1.0	-55.7	-13.0	-42.7	
2.47	-62.5	V	3.0	-15.2	39.2	1.0	-53.5	-13.0	-40.5	
3.30	-63.1	V	3.0	-15.2	39.5	1.0	-51.7	-13.0	-38.7	
Mid Channel (0.36..0.81Hz)										
1.67	-61.7	H	3.0	-16.1	39.9	1.0	-57.1	-13.0	-44.1	
2.51	-62.4	H	3.0	-15.8	39.2	1.0	-54.4	-13.0	-41.8	
3.35	-63.3	H	3.0	-14.4	39.5	1.0	-52.9	-13.0	-39.9	
1.67	-62.3	V	3.0	-17.1	39.9	1.0	-56.0	-13.0	-43.0	
2.51	-61.6	V	3.0	-15.8	39.2	1.0	-52.1	-13.0	-39.1	
3.35	-63.1	V	3.0	-16.0	39.5	1.0	-51.3	-13.0	-38.3	
High Channel (0.48..0.81Hz)										
1.70	-60.6	H	3.0	-16.8	40.0	1.0	-56.8	-13.0	-42.8	
2.55	-62.3	H	3.0	-15.9	39.5	1.0	-54.3	-13.0	-40.3	
3.39	-63.0	H	3.0	-15.0	39.5	1.0	-51.3	-13.0	-38.3	
1.70	-60.7	V	3.0	-14.4	40.0	1.0	-53.3	-13.0	-40.3	
2.55	-62.3	V	3.0	-14.4	39.2	1.0	-50.6	-13.0	-39.6	
3.39	-63.0	V	3.0	-12.6	39.5	1.0	-51.2	-13.0	-38.2	

Rev. 10.28.15

LTE B5 1.4MHz QPSK										
High Frequency Substitution Measurement UL RTP Radiated Chamber										
Company: SOMIC Project #: 11139405 Date: 2016-04-08 Test Engineer: Brian Kiewra Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) Model: LTE Band 5, 1.4MHz QPSK										
Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (0.25..0.81Hz)										
1.65	-61.6	H	3.0	-17.4	39.9	1.0	-56.3	-13.0	-43.3	
2.48	-63.0	H	3.0	-16.3	39.3	1.0	-54.6	-13.0	-41.6	
3.30	-62.7	H	3.0	-15.5	39.5	1.0	-51.8	-13.0	-38.8	
1.65	-61.6	V	3.0	-16.6	39.9	1.0	-55.5	-13.0	-42.5	
2.48	-62.3	V	3.0	-15.1	39.2	1.0	-52.4	-13.0	-41.1	
3.30	-63.0	V	3.0	-15.5	39.5	1.0	-50.0	-13.0	-39.0	
1.67	-61.2	H	3.0	-17.6	39.9	1.0	-56.5	-13.0	-43.3	
2.51	-62.7	H	3.0	-15.9	39.5	1.0	-54.2	-13.0	-41.7	
3.35	-63.2	H	3.0	-17.7	39.5	1.0	-52.2	-13.0	-39.2	
1.67	-61.8	V	3.0	-16.6	39.9	1.0	-55.5	-13.0	-42.5	
2.51	-62.9	V	3.0	-15.0	39.2	1.0	-52.1	-13.0	-40.3	
3.35	-63.0	V	3.0	-13.4	39.5	1.0	-51.9	-13.0	-38.9	
Mid Channel (0.36..0.81Hz)										
1.67	-61.2	H	3.0	-17.6	39.9	1.0	-56.5	-13.0	-43.3	
2.51	-62.7	H	3.0	-15.9	39.2	1.0	-54.1	-13.0	-41.1	
3.35	-63.2	H	3.0	-17.7	39.5	1.0	-52.2	-13.0	-39.2	
1.67	-61.8	V	3.0	-16.6	39.9	1.0	-55.5	-13.0	-42.5	
2.51	-62.9	V	3.0	-15.0	39.2	1.0	-52.1	-13.0	-40.3	
3.35	-63.0	V	3.0	-13.4	39.5	1.0	-51.9	-13.0	-38.9	
High Channel (0.47..0.81Hz)										
1.70	-60.6	H	3.0	-17.0	40.0	1.0	-55.9	-13.0	-42.9	
2.55	-62.3	H	3.0	-15.9	39.5	1.0	-53.4	-13.0	-41.4	
3.39	-63.0	H	3.0	-13.0	39.5	1.0	-51.6	-13.0	-38.6	
1.70	-61.2	V	3.0	-15.8	40.0	1.0	-53.8	-13.0	-41.8	
2.54	-62.6	V	3.0	-14.6	39.2	1.0	-50.6	-13.0	-39.9	
3.39	-62.7	V	3.0	-12.4	39.5	1.0	-50.9	-13.0	-37.9	
Rev. 10.28.15										
LTE B5 3MHz QPSK										
High Frequency Substitution Measurement UL RTP Radiated Chamber										
Company: SOMIC Project #: 11139405 Date: 2016-04-08 Test Engineer: Brian Kiewra Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) Model: LTE Band 5, 3MHz QPSK										
Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (0.26..0.81Hz)										
1.69	-61.8	H	3.0	-18.4	39.9	1.0	-57.3	-13.0	-44.3	
2.48	-63.0	H	3.0	-16.3	39.3	1.0	-54.6	-13.0	-41.6	
3.31	-63.1	H	3.0	-15.7	39.5	1.0	-52.2	-13.0	-39.2	
1.65	-61.2	V	3.0	-16.2	39.9	1.0	-55.1	-13.0	-42.1	
2.48	-62.5	V	3.0	-15.1	39.2	1.0	-52.6	-13.0	-40.1	
3.31	-63.4	V	3.0	-13.2	39.5	1.0	-51.7	-13.0	-38.7	
1.67	-61.6	H	3.0	-18.0	39.9	1.0	-56.9	-13.0	-43.0	
2.51	-62.7	H	3.0	-15.9	39.2	1.0	-54.1	-13.0	-41.1	
3.35	-63.1	H	3.0	-15.6	39.5	1.0	-52.1	-13.0	-39.1	
1.67	-61.4	V	3.0	-16.2	39.9	1.0	-55.1	-13.0	-42.1	
2.51	-62.7	V	3.0	-15.2	39.2	1.0	-52.4	-13.0	-39.5	
3.35	-63.2	V	3.0	-13.0	39.5	1.0	-51.4	-13.0	-38.4	
1.69	-61.3	H	3.0	-16.3	39.9	1.0	-55.3	-13.0	-42.3	
2.54	-61.5	H	3.0	-15.0	39.2	1.0	-52.1	-13.0	-39.1	
3.39	-63.1	H	3.0	-13.6	39.5	1.0	-51.1	-13.0	-39.1	
1.69	-61.5	V	3.0	-15.8	39.9	1.0	-54.7	-13.0	-41.7	
2.54	-61.8	V	3.0	-13.9	39.2	1.0	-52.1	-13.0	-39.1	
3.39	-63.1	V	3.0	-12.7	39.5	1.0	-51.2	-13.0	-38.2	
Rev. 10.28.15										
LTE B5 3MHz 16QAM										
High Frequency Substitution Measurement UL RTP Radiated Chamber										
Company: SOMIC Project #: 11139405 Date: 2016-04-08 Test Engineer: Brian Kiewra Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) Model: LTE Band 5, 3MHz 16QAM										
Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (0.26..0.81Hz)										
1.69	-61.6	H	3.0	-18.2	39.9	1.0	-57.1	-13.0	-44.1	
2.48	-62.6	H	3.0	-16.3	39.3	1.0	-54.2	-13.0	-41.6	
3.31	-63.4	H	3.0	-15.8	39.5	1.0	-52.5	-13.0	-39.5	
1.65	-61.5	V	3.0	-16.5	39.9	1.0	-55.9	-13.0	-42.4	
2.48	-62.5	V	3.0	-15.2	39.2	1.0	-52.3	-13.0	-40.1	
3.31	-63.4	V	3.0	-13.2	39.5	1.0	-51.7	-13.0	-38.7	
1.67	-61.6	H	3.0	-18.2	39.9	1.0	-56.5	-13.0	-43.3	
2.51	-62.7	H	3.0	-15.9	39.2	1.0	-53.7	-13.0	-41.7	
3.35	-63.4	H	3.0	-15.4	39.5	1.0	-52.5	-13.0	-39.5	
1.67	-61.4	V	3.0	-16.4	39.9	1.0	-55.9	-13.0	-42.3	
2.51	-62.4	V	3.0	-15.1	39.2	1.0	-52.1	-13.0	-39.5	
3.35	-63.4	V	3.0	-13.0	39.5	1.0	-51.1	-13.0	-38.6	
1.69	-61.0	H	3.0	-						

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company: SOMIC</b> <b>Project: R11139405</b> <b>Date: 2016-04-28</b> <b>Test Engineer: Brian Kivora</b> <b>Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis)</b> <b>Mode:</b> <b>LTE Band 5, 10MHz QPSK</b>									
<b>Test Equipment:</b> <b>Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable</b>									
EIRP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (029MHz)									
1.66	-61.4	H	3.0	-16.0	39.9	1.0	-56.9	-13.0	-43.9
2.49	-63.4	H	3.0	-16.0	39.9	1.0	-56.9	-13.0	-40.9
3.32	-63.8	H	3.0	-14.4	39.5	1.0	-52.9	-13.0	-39.9
1.66	-61.6	V	3.0	-16.5	39.9	1.0	-55.4	-13.0	-42.4
2.49	-60.7	V	3.0	-13.0	39.3	1.0	-51.2	-13.0	-38.2
3.32	-63.6	V	3.0	-13.3	39.5	1.0	-51.8	-13.0	-38.8
Mid Channel (036.5MHz)									
1.67	-62.0	H	3.0	-18.5	39.9	1.0	-57.4	-13.0	-44.4
2.51	-63.3	H	3.0	-18.4	39.2	1.0	-54.7	-13.0	-41.7
3.35	-63.3	H	3.0	-14.4	39.3	1.0	-52.9	-13.0	-39.9
1.67	-61.6	V	3.0	-18.4	39.9	1.0	-55.3	-13.0	-42.3
2.51	-61.5	V	3.0	-18.1	39.2	1.0	-52.1	-13.0	-39.1
3.35	-63.6	V	3.0	-13.3	39.5	1.0	-51.8	-13.0	-38.8
High Channel (044MHz)									
1.69	-61.3	H	3.0	-17.6	39.9	1.0	-56.6	-13.0	-43.6
2.53	-62.5	H	3.0	-16.4	39.7	1.0	-54.6	-13.0	-41.6
3.38	-63.1	H	3.0	-13.6	39.5	1.0	-52.1	-13.0	-39.1
1.69	-61.6	V	3.0	-16.3	39.9	1.0	-55.2	-13.0	-42.2
2.53	-62.6	V	3.0	-14.7	39.2	1.0	-52.9	-13.0	-39.9
3.38	-63.1	V	3.0	-12.8	39.5	1.0	-51.3	-13.0	-38.3
Rev. 10.28.15.									
LTE B5 10MHz QPSK									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (029MHz)									
1.66	-61.8	H	3.0	-16.9	39.9	1.0	-57.7	-13.0	-44.2
2.49	-63.1	H	3.0	-16.7	39.7	1.0	-54.9	-13.0	-41.3
3.32	-63.6	H	3.0	-14.2	39.5	1.0	-52.7	-13.0	-39.7
1.66	-61.8	V	3.0	-16.8	39.9	1.0	-55.7	-13.0	-42.7
2.49	-62.3	V	3.0	-14.5	39.3	1.0	-52.8	-13.0	-39.8
3.32	-62.8	V	3.0	-13.5	39.5	1.0	-51.0	-13.0	-38.0
Mid Channel (036.5MHz)									
1.67	-61.8	H	3.0	-16.5	39.9	1.0	-57.4	-13.0	-44.4
2.51	-62.9	H	3.0	-16.1	39.2	1.0	-54.4	-13.0	-41.4
3.35	-63.9	H	3.0	-14.1	39.3	1.0	-52.4	-13.0	-39.8
1.67	-61.7	V	3.0	-16.5	39.9	1.0	-55.4	-13.0	-42.4
2.51	-61.4	V	3.0	-14.5	39.2	1.0	-52.1	-13.0	-39.8
3.35	-64.0	V	3.0	-13.7	39.5	1.0	-52.2	-13.0	-39.2
High Channel (044MHz)									
1.69	-61.8	H	3.0	-16.5	39.9	1.0	-55.4	-13.0	-42.4
2.53	-62.2	H	3.0	-15.2	39.2	1.0	-53.5	-13.0	-40.5
3.38	-63.3	H	3.0	-13.8	39.5	1.0	-52.3	-13.0	-39.3
1.69	-61.4	V	3.0	-16.1	39.9	1.0	-55.6	-13.0	-42.0
2.53	-63.1	V	3.0	-15.1	39.2	1.0	-53.4	-13.0	-40.4
3.38	-63.6	V	3.0	-13.2	39.5	1.0	-51.6	-13.0	-38.8
Rev. 10.28.15.									
LTE B5 10MHz 16QAM									

## LTE Band 7

High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber									
Company: SOMIC Project #: 11139405 Date: 2016-04-06 Test Engineer: Mark Nolting Configuration: EUT w/ AC Adaptor and Headphones (Sample # 2312247 X-Axis) Model: LTE Band 7, 5MHz QPSK										Company: SOMIC Project #: 11139405 Date: 2016-04-06 Test Engineer: Mark Nolting Configuration: EUT w/ AC Adaptor and Headphones (Sample # 2312247 X-Axis) Model: LTE Band 7, 5MHz 16QAM									
Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B7										LTE B7									
<b>Frequency (GHz)</b>										<b>Frequency (GHz)</b>									
<b>SA reading (dBm)</b>										<b>SA reading (dBm)</b>									
<b>Ant. Pol.</b>										<b>Ant. Pol.</b>									
<b>Distance</b>										<b>Distance</b>									
<b>EIRP @ TX Ant End (dBm)</b>										<b>EIRP @ TX Ant End (dBm)</b>									
<b>Preamp</b>										<b>Preamp</b>									
<b>Attenuator</b>										<b>Attenuator</b>									
<b>EIRP</b>										<b>EIRP</b>									
<b>Limit</b>										<b>Limit</b>									
<b>Delta</b>										<b>Delta</b>									
<b>Low Channel (2502.5MHz)</b>										<b>Low Channel (2502.5MHz)</b>									
5.01	-66.7	H	3.0	-11.1	40.3	1.0	-50.8	-25.0	-25.8	5.01	-66.7	H	3.0	-10.1	-40.3	1.0	-51.4	-25.0	-26.4
7.51	-66.7	H	3.0	-10.2	38.9	1.0	-49.2	-25.0	-23.2	7.51	-66.5	H	3.0	-10.1	-38.9	1.0	-49.0	-25.0	-23.0
10.01	-67.9	H	3.0	-8.7	38.3	1.0	-46.6	-25.0	-21.0	10.01	-66.8	H	3.0	-9.6	-38.3	1.0	-46.9	-25.0	-21.9
5.01	-64.5	V	3.0	-11.9	40.3	1.0	-51.2	-25.0	-26.2	5.01	-64.4	V	3.0	-11.9	40.3	1.0	-51.1	-25.0	-26.1
7.51	-67.4	V	3.0	-11.2	38.9	1.0	-49.1	-25.0	-24.1	7.51	-67.5	V	3.0	-11.6	38.9	1.0	-49.5	-25.0	-24.5
10.01	-68.9	V	3.0	-9.4	38.3	1.0	-46.8	-25.0	-21.0	10.01	-68.7	V	3.0	-9.4	-38.3	1.0	-46.8	-25.0	-21.0
<b>Mid Channel (2535MHz)</b>										<b>Mid Channel (2535MHz)</b>									
5.07	-63.9	H	3.0	-11.2	40.3	1.0	-50.5	-25.0	-25.5	5.07	-63.4	H	3.0	-10.7	-40.3	1.0	-51.5	-25.0	-25.0
7.51	-64.6	H	3.0	-10.0	38.9	1.0	-49.2	-25.0	-22.0	7.51	-64.6	H	3.0	-10.0	-38.9	1.0	-47.8	-25.0	-22.0
10.14	-69.3	H	3.0	-9.8	38.3	1.0	-47.2	-25.0	-22.2	10.14	-68.8	H	3.0	-9.6	-38.3	1.0	-46.3	-25.0	-21.3
5.07	-63.1	V	3.0	-10.5	40.3	1.0	-49.7	-25.0	-24.7	5.07	-63.9	V	3.0	-11.2	-40.3	1.0	-50.5	-25.0	-25.5
7.51	-66.5	V	3.0	-10.2	38.9	1.0	-49.1	-25.0	-23.1	7.51	-67.4	V	3.0	-11.1	-38.9	1.0	-49.0	-25.0	-24.0
10.14	-69.1	V	3.0	-9.8	38.3	1.0	-47.1	-25.0	-22.1	10.14	-69.4	V	3.0	-10.1	-38.3	1.0	-47.4	-25.0	-22.4
<b>High Channel (2562.5MHz)</b>										<b>High Channel (2562.5MHz)</b>									
5.14	-65.6	H	3.0	-12.8	40.3	1.0	-52.1	-25.0	-27.1	5.14	-65.0	H	3.0	-12.2	-40.3	1.0	-51.5	-25.0	-26.5
7.52	-66.7	H	3.0	-12.0	38.9	1.0	-49.5	-25.0	-23.1	7.52	-66.7	H	3.0	-12.0	-38.9	1.0	-47.5	-25.0	-22.5
10.27	-69.3	H	3.0	-8.6	38.3	1.0	-46.9	-25.0	-21.2	10.27	-69.7	H	3.0	-10.2	-38.3	1.0	-47.5	-25.0	-22.5
5.07	-64.8	V	3.0	-12.7	40.3	1.0	-52.0	-25.0	-27.0	5.07	-64.8	V	3.0	-12.1	-40.3	1.0	-51.4	-25.0	-26.4
7.50	-67.0	V	3.0	-11.3	38.9	1.0	-49.8	-25.0	-24.0	7.50	-67.9	V	3.0	-11.5	-38.9	1.0	-49.4	-25.0	-24.4
10.27	-69.0	V	3.0	-9.5	38.3	1.0	-46.8	-25.0	-21.0	10.27	-69.5	V	3.0	-10.0	-38.3	1.0	-47.4	-25.0	-22.4
<b>Rev. 10.28.15</b>										<b>Rev. 10.28.15</b>									
LTE B7 5MHz QPSK										LTE B7 5MHz 16QAM									
<b>Frequency (GHz)</b>										<b>Frequency (GHz)</b>									
<b>SA reading (dBm)</b>										<b>SA reading (dBm)</b>									
<b>Ant. Pol.</b>										<b>Ant. Pol.</b>									
<b>Distance</b>										<b>Distance</b>									
<b>EIRP @ TX Ant End (dBm)</b>										<b>EIRP @ TX Ant End (dBm)</b>									
<b>Preamp</b>										<b>Preamp</b>									
<b>Attenuator</b>										<b>Attenuator</b>									
<b>EIRP</b>										<b>EIRP</b>									
<b>Limit</b>										<b>Limit</b>									
<b>Delta</b>										<b>Delta</b>									
<b>Low Channel (2502.5MHz)</b>										<b>Low Channel (2502.5MHz)</b>									
5.01	-64.8	H	3.0	-8.9	40.3	1.0	-49.2	-25.0	-23.2	5.01	-64.7	H	3.0	-10.6	-38.9	1.0	-49.3	-25.0	-23.6
7.51	-67.0	H	3.0	-9.0	38.9	1.0	-49.2	-25.0	-22.2	7.51	-66.9	H	3.0	-10.0	-38.3	1.0	-47.5	-25.0	-22.5
10.01	-69.3	H	3.0	-9.6	38.3	1.0	-47.2	-25.0	-22.2	10.01	-69.2	H	3.0	-9.9	-38.3	1.0	-46.7	-25.0	-21.5
5.01	-64.5	V	3.0	-11.6	40.3	1.0	-50.7	-25.0	-26.7	5.01	-64.2	V	3.0	-11.4	-40.3	1.0	-50.7	-25.0	-25.7
7.51	-67.7	V	3.0	-11.3	38.9	1.0	-49.8	-25.0	-23.9	7.51	-67.5	V	3.0	-11.6	-38.9	1.0	-49.7	-25.0	-24.0
10.01	-69.4	V	3.0	-9.7	38.3	1.0	-47.0	-25.0	-22.0	10.01	-69.5	V	3.0	-10.0	-38.3	1.0	-47.2	-25.0	-22.2
<b>Mid Channel (2535MHz)</b>										<b>Mid Channel (2535MHz)</b>									
5.07	-64.4	H	3.0	-15.7	40.3	1.0	-51.0	-25.0	-26.0	5.07	-64.1	H	3.0	-11.8	-40.3	1.0	-51.3	-25.0	-26.1
7.51	-67.4	H	3.0	-9.8	38.9	1.0	-47.5	-25.0	-22.5	7.51	-66.9	H	3.0	-10.4	-38.9	1.0	-48.4	-25.0	-23.4</

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company: SOMC</b> <b>Project: R11139405</b> <b>Date: 2016-04-27</b> <b>Test Engineer: Mark Nolling</b> <b>Configuration: EUT w/ AC Adaptor and Headphones (Sample # 2312247 X-Axis)</b> <b>Mode:</b> <b>LTE Band 7, 20MHz QPSK</b>									
<b>Test Equipment:</b> <b>Substitution: Horn AT0978 Substitution, and CBL010 SMA Cable</b>									
LTE B7									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (2510MHz)									
5.07	-65.4	H	3.0	-12.7	40.3	1.0	-52.0	-25.0	-27.0
7.01	-67.6	H	3.0	-10.5	38.9	1.0	-49.0	-25.0	-24.0
10.04	-68.6	H	3.0	-9.4	38.3	1.0	-46.7	-25.0	-21.7
5.07	-64.4	V	3.0	-11.5	40.3	1.0	-50.8	-25.0	-25.8
7.03	-67.4	V	3.0	-11.2	38.9	1.0	-49.1	-25.0	-24.1
10.04	-68.1	V	3.0	-8.9	38.3	1.0	-47.2	-25.0	-21.2
Mid Channel (2535MHz)									
5.07	-65.1	H	3.0	-12.4	40.3	1.0	-51.7	-25.0	-26.7
7.01	-66.5	H	3.0	-9.9	38.9	1.0	-47.8	-25.0	-22.8
10.04	-66.6	H	3.0	-9.6	38.3	1.0	-46.8	-25.0	-21.8
5.07	-64.7	V	3.0	-12.1	40.3	1.0	-51.4	-25.0	-26.4
7.03	-67.5	V	3.0	-11.1	38.9	1.0	-48.3	-25.0	-24.3
10.04	-69.0	V	3.0	-9.7	38.3	1.0	-47.0	-25.0	-22.0
High Channel (2560MHz)									
5.07	-65.6	H	3.0	-10.8	40.3	1.0	-51.1	-25.0	-26.1
7.03	-67.5	H	3.0	-10.8	38.9	1.0	-48.7	-25.0	-23.7
10.04	-69.2	H	3.0	-9.7	38.3	1.0	-47.0	-25.0	-22.0
5.12	-64.9	V	3.0	-12.2	40.3	1.0	-51.5	-25.0	-26.5
7.08	-66.7	V	3.0	-10.2	38.9	1.0	-48.1	-25.0	-23.1
10.04	-69.1	V	3.0	-9.1	38.3	1.0	-46.4	-25.0	-21.4

  

Rev. 10.28.15	Rev. 10.28.15
LTE B7 20MHz QPSK	

  

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company: SOMC</b> <b>Project: R11139405</b> <b>Date: 2016-04-27</b> <b>Test Engineer: Mark Nolling</b> <b>Configuration: EUT w/ AC Adaptor and Headphones (Sample # 2312247 X-Axis)</b> <b>Mode:</b> <b>LTE Band 7, 20MHz 16QAM</b>									
<b>Test Equipment:</b> <b>Substitution: Horn AT0978 Substitution, and CBL010 SMA Cable</b>									
LTE B7									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (2510MHz)									
5.07	-64.7	H	3.0	-12.1	40.3	1.0	-51.1	-25.0	-26.4
7.01	-67.6	H	3.0	-10.6	38.9	1.0	-48.9	-25.0	-23.3
10.04	-68.7	H	3.0	-9.4	38.3	1.0	-46.8	-25.0	-21.8
5.07	-64.7	V	3.0	-11.6	40.3	1.0	-51.4	-25.0	-26.4
7.03	-67.6	V	3.0	-10.6	38.9	1.0	-48.9	-25.0	-23.3
10.04	-68.9	V	3.0	-9.6	38.3	1.0	-46.9	-25.0	-21.9
Mid Channel (2535MHz)									
5.07	-65.2	H	3.0	-12.4	40.3	1.0	-51.7	-25.0	-26.7
7.01	-67.0	H	3.0	-10.4	38.9	1.0	-49.3	-25.0	-23.3
10.04	-68.6	H	3.0	-9.4	38.3	1.0	-47.4	-25.0	-22.0
5.07	-64.3	V	3.0	-11.7	40.3	1.0	-51.0	-25.0	-26.0
7.03	-67.5	V	3.0	-10.4	38.9	1.0	-48.6	-25.0	-23.3
10.04	-68.9	V	3.0	-9.6	38.3	1.0	-46.9	-25.0	-21.9
High Channel (2560MHz)									
5.07	-65.6	H	3.0	-11.7	40.3	1.0	-51.0	-25.0	-26.0
7.03	-67.8	H	3.0	-11.1	38.9	1.0	-49.0	-25.0	-24.0
10.04	-69.7	H	3.0	-10.3	38.3	1.0	-47.6	-25.0	-22.6
5.12	-65.1	V	3.0	-12.4	40.3	1.0	-51.7	-25.0	-26.7
7.08	-68.0	V	3.0	-11.6	38.9	1.0	-49.5	-25.0	-24.5
10.04	-69.4	V	3.0	-9.9	38.3	1.0	-46.3	-25.0	-21.3

  

Rev. 10.28.15	Rev. 10.28.15
LTE B7 20MHz 16QAM	

## LTE Band 12

High Frequency Substitution Measurement UL RTP Radiated Chamber										
<b>Company:</b> SOMIC <b>Project #: 11139405</b> <b>Date:</b> 2016-04-08 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 12, 1.4MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
ERP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (699.5MHz)										
2.10	-62.9	H	3.0	16.0	40.2	1.0	56.0	-13.0	-43.3	
2.10	-62.8	H	3.0	14.0	39.3	1.0	53.2	-13.0	-40.2	
1.40	59.6	V	3.0	16.2	39.9	1.0	55.2	-13.0	-42.2	
2.10	-62.5	V	3.0	15.0	40.2	1.0	54.2	-13.0	-41.2	
2.00	-63.0	V	3.0	14.0	39.3	1.0	52.5	-13.0	-39.3	
Mid Channel (707.5MHz)										
1.42	57.2	H	3.0	15.2	39.9	1.0	54.1	-13.0	-41.1	
2.10	-62.5	H	3.0	17.2	40.1	1.0	56.0	-13.0	-42.7	
2.00	-62.3	H	3.0	14.3	39.3	1.0	52.5	-13.0	-39.5	
1.42	58.4	V	3.0	15.5	39.9	1.0	55.5	-13.0	-40.9	
2.12	-62.5	V	3.0	15.0	40.1	1.0	54.1	-13.0	-41.1	
2.03	-62.0	V	3.0	12.8	39.3	1.0	51.1	-13.0	-38.1	
High Channel (715.5MHz)										
1.43	57.8	H	3.0	15.8	39.8	1.0	54.7	-13.0	-41.7	
2.15	-62.7	H	3.0	16.6	40.1	1.0	55.9	-13.0	-42.7	
2.00	-63.0	H	3.0	14.9	39.3	1.0	53.1	-13.0	-40.1	
1.43	60.0	V	3.0	16.4	39.8	1.0	56.3	-13.0	-42.3	
2.15	-62.1	V	3.0	17.7	40.1	1.0	56.0	-13.0	-42.7	
2.06	-63.1	V	3.0	13.8	39.3	1.0	52.1	-13.0	-39.1	
Rev. 10.28.15										
LTE B12 1.4MHz QPSK										
<b>Company:</b> SOMIC <b>Project #: 11139405</b> <b>Date:</b> 2016-04-08 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 12, 3MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
ERP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (700.5MHz)										
1.40	57.4	H	3.0	16.0	39.9	1.0	57.1	-13.0	-41.1	
2.10	-62.2	H	3.0	16.2	40.2	1.0	55.4	-13.0	-42.4	
2.00	-63.0	H	3.0	15.1	39.3	1.0	53.4	-13.0	-40.4	
1.40	59.4	V	3.0	16.0	39.9	1.0	54.7	-13.0	-41.9	
2.10	-62.5	V	3.0	15.0	40.2	1.0	54.2	-13.0	-41.2	
2.00	-62.6	V	3.0	14.6	39.3	1.0	53.5	-13.0	-40.1	
Mid Channel (707.5MHz)										
1.42	57.1	H	3.0	15.5	39.9	1.0	54.3	-13.0	-41.5	
2.12	-62.1	H	3.0	17.1	40.1	1.0	56.0	-13.0	-42.7	
2.03	-62.9	H	3.0	14.9	39.3	1.0	53.5	-13.0	-40.2	
1.42	58.7	V	3.0	15.2	39.9	1.0	54.1	-13.0	-41.3	
2.12	61.5	V	3.0	14.1	40.1	1.0	53.2	-13.0	-40.2	
2.05	-62.0	V	3.0	13.0	39.3	1.0	52.1	-13.0	-39.1	
High Channel (714.5MHz)										
1.43	58.6	H	3.0	16.0	39.9	1.0	54.9	-13.0	-41.9	
2.14	-62.5	H	3.0	16.5	40.1	1.0	55.5	-13.0	-42.5	
2.04	-63.1	H	3.0	14.9	39.3	1.0	53.1	-13.0	-40.1	
1.43	60.1	V	3.0	15.5	39.9	1.0	54.9	-13.0	-41.4	
2.14	-62.5	V	3.0	17.1	40.1	1.0	54.2	-13.0	-41.7	
2.06	-63.0	V	3.0	13.7	39.3	1.0	52.0	-13.0	-39.0	
Rev. 10.28.16										
LTE B12 3MHz QPSK										
<b>Company:</b> SOMIC <b>Project #: 11139405</b> <b>Date:</b> 2016-04-08 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 12, 3MHz QPSK										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
ERP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (701.5MHz)										
2.11	-61.9	H	3.0	17.2	39.9	1.0	56.1	-13.0	-43.1	
2.11	-61.9	H	3.0	15.8	40.2	1.0	55.4	-13.0	-42.0	
2.01	-62.9	H	3.0	15.0	39.3	1.0	53.3	-13.0	-40.3	
1.40	59.3	V	3.0	15.7	39.9	1.0	54.6	-13.0	-41.6	
2.11	-61.9	V	3.0	16.4	40.1	1.0	55.9	-13.0	-42.5	
2.01	-63.5	V	3.0	14.4	39.3	1.0	52.7	-13.0	-39.7	
Mid Channel (707.5MHz)										
1.42	57.8	H	3.0	15.9	39.9	1.0	54.8	-13.0	-41.8	
2.12	-62.5	H	3.0	16.4	40.1	1.0	56.0	-13.0	-42.5	
2.03	-62.5	H	3.0	14.5	39.3	1.0	52.8	-13.0	-39.8	
1.42	58.1	V	3.0	15.6	39.9	1.0	55.5	-13.0	-40.5	
2.12	-62.9	V	3.0	15.5	40.1	1.0	54.6	-13.0	-41.6	
2.03	-62.6	V	3.0	13.4	39.3	1.0	51.7	-13.0	-38.7	
High Channel (713.5MHz)										
1.43	57.6	H	3.0	15.0	39.9	1.0	53.9	-13.0	-40.9	
2.13	-62.5	H	3.0	17.3	40.1	1.0	56.5	-13.0	-43.4	
2.05	-62.9	H	3.0	14.8	39.3	1.0	52.8	-13.0	-40.0	
1.43	59.1	V	3.0	15.6	39.9	1.0	54.4	-13.0	-41.4	
2.14	-63.0	V	3.0	15.6	40.1	1.0	54.6	-13.0	-41.6	
2.05	-62.8	V	3.0	13.5	39.3	1.0	51.8	-13.0	-38.8	
Rev. 10.28.15										
LTE B12 3MHz 16QAM										
<b>Company:</b> SOMIC <b>Project #: 11139405</b> <b>Date:</b> 2016-04-08 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 12, 3MHz 16QAM										
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
ERP										
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	
Low Channel (701.5MHz)										
2.11	-61.9	H	3.0	17.2	39.9	1.0	56.1	-13.0	-43.1	
2.11	-61.9	H	3.0	15.8	40.2	1.0	55.4	-13.0	-42.0	
2.01	-62.9	H	3.0	15.0	39.3	1.0	53.3	-13.0	-40.3	
1.40	59.3	V	3.0	15.7	39.9	1.0	54.6	-13.0	-41.6	
2.11	-61.9	V	3.0	16.4	40.1	1.0	55.9	-13.0	-42.5	
2.01	-63.5	V	3.0	14.4	39.3	1.0	52.7	-13.0	-39.7	
Mid Channel (707.5MHz)										
1.42	57.6	H	3.0	15.9	39.9	1.0	54.8	-13.0	-41.8	
2.12	-62.5	H	3.0	16.4	40.1	1.0	56.0	-13.0	-42.5	
2.03	-62.5	H	3.0	14.5	39.3	1.0	52.8	-13.0	-39.8	
1.42	58.1	V	3.0	15.6	39.9	1.0	55.5	-13.0	-40.5	
2.12	-62.9	V	3.0	15.5	40.1	1.0	54.6	-13.0	-41.6	
2.03	-62.6	V	3.0	13.4	39.3	1.0	51.7	-13.0	-38.7	
High Channel (713.5MHz)										
1.43	57.6	H	3.0	15.0	39.9	1.0	53.9	-13.0	-40.9	
2.13	-62.5	H	3.0	17.3	40.1	1.0	56.5	-13.0	-43.4	
2.05	-62.9	H	3.0	14.8	39.3	1.0	52.8	-13.0	-40.0	
1.43	59.1	V	3.0	15.6	39.9	1.0	54.4	-13.0	-41.4	
2.14	-63.0	V	3.0	15.6	40.1	1.0	54.6	-13.0	-41.6	
2.05	-62.8	V	3.0	13.5	39.3	1.0	51.8	-13.0	-38.8	
Rev. 10.28.15										
LTE B12 3MHz 16QAM										

LTE B12 5MHz QPSK										LTE B12 5MHz 16QAM									
High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company: SOMC</b> <b>Project #: 11139405</b> <b>Date: 4/27/2016</b> <b>Test Engineer: Brian Kiewra</b> <b>Configuration: EU T w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis)</b> <b>Mode:</b> LTE Band 12, 10MHz, QPSK										<b>Company: SOMC</b> <b>Project #: 11139405</b> <b>Date: 4/27/2016</b> <b>Test Engineer: Brian Kiewra</b> <b>Configuration: EU T w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis)</b> <b>Mode:</b> LTE Band 12, 10MHz, 16QAM									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
EIRP <sup>a</sup>										EIRP <sup>a</sup>									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (707.5MHz)										Low Channel (707.5MHz)									
1.41	-60.8	H	3.0	-18.6	39.9	1.0	-57.5	-13.0	-44.5	1.41	-60.9	V	3.0	-19.0	39.9	1.0	-57.9	-13.0	-44.9
2.12	-62.4	H	3.0	-18.2	40.1	1.0	-56.9	-13.0	-42.6	2.11	-62.5	H	3.0	-19.1	40.1	1.0	-56.6	-13.0	-42.6
2.82	-62.6	H	3.0	-18.7	39.3	1.0	-57.9	-13.0	-39.9	2.82	-62.3	H	3.0	-19.3	39.3	1.0	-56.6	-13.0	-39.6
Mid Channel (707.5MHz)										Mid Channel (707.5MHz)									
1.42	-57.6	H	3.0	-15.6	39.9	1.0	-54.5	-13.0	-41.5	1.42	-57.5	H	3.0	-15.5	39.9	1.0	-54.4	-13.0	-41.4
2.12	-62.6	H	3.0	-16.5	40.1	1.0	-55.6	-13.0	-42.6	2.12	-62.5	H	3.0	-16.5	40.1	1.0	-55.6	-13.0	-42.6
2.82	-62.5	H	3.0	-15.9	39.3	1.0	-55.7	-13.0	-39.7	2.82	-62.5	H	3.0	-17.7	39.3	1.0	-55.5	-13.0	-39.5
High Channel (711MHz)										High Channel (711MHz)									
1.42	-59.0	V	3.0	-15.5	39.9	1.0	-54.4	-13.0	-41.4	1.42	-58.7	V	3.0	-15.3	39.9	1.0	-54.2	-13.0	-41.2
2.12	-62.6	V	3.0	-15.1	40.1	1.0	-55.3	-13.0	-41.2	2.12	-62.6	V	3.0	-15.1	40.1	1.0	-55.2	-13.0	-41.2
2.82	-63.3	V	3.0	-14.2	39.3	1.0	-52.4	-13.0	-39.4	2.82	-62.8	V	3.0	-15.7	39.3	1.0	-51.9	-13.0	-38.9
Rev. 10.2B.15										Rev. 10.2B.15									
LTE B12 10MHz QPSK										LTE B12 10MHz 16QAM									

## LTE Band 13

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test:</b> Horn-Antennas-Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) <b>Mode:</b> LTE band 13, 5MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B13									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (779.5MHz)									
2.34	-62.8	H	3.0	39.7	1.0	54.8	-40.0	-34.8	
2.34	-62.8	H	3.0	39.7	1.0	55.3	-43.0	-42.3	
3.12	-62.8	H	3.0	39.4	1.0	51.5	-43.0	-38.5	
1.56	59.3	V	3.0	39.7	1.0	53.6	-40.0	-13.6	
2.34	-62.3	V	3.0	39.6	1.0	53.5	-43.0	-40.5	
3.12	-62.4	V	3.0	39.4	1.0	50.9	-43.0	-37.9	
Mid Channel (782MHz)									
1.56	61.0	H	3.0	39.8	1.0	57.0	-40.0	-17.0	
2.34	-62.7	H	3.0	39.6	1.0	52.7	-43.0	-42.7	
3.12	-62.8	H	3.0	39.4	1.0	52.3	-43.0	-39.3	
1.56	59.3	V	3.0	39.8	1.0	53.6	-40.0	-13.6	
2.34	-62.7	V	3.0	39.6	1.0	53.5	-43.0	-40.9	
3.12	-62.4	V	3.0	39.4	1.0	50.7	-43.0	-37.7	
High Channel (784.5MHz)									
1.56	61.5	H	3.0	39.8	1.0	57.5	-40.0	-17.5	
2.34	-62.9	H	3.0	39.6	1.0	55.3	-43.0	-42.3	
3.12	-62.7	H	3.0	39.4	1.0	53.3	-43.0	-39.3	
1.56	61.0	V	3.0	39.8	1.0	55.3	-40.0	-15.3	
2.34	-62.7	V	3.0	39.6	1.0	53.6	-43.0	-40.9	
3.12	-62.8	V	3.0	39.4	1.0	51.1	-43.0	-38.1	

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High Frequency Substitution Measurement UL RTP Radiated Chamber									
High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test:</b> Horn-Antennas-Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) <b>Mode:</b> LTE band 13, 5MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B13 5MHz QPSK									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (1)									
1.56	59.3	H							
2.34	-62.7	H							
3.12	-62.4	H							
1.56	59.3	V							
2.34	-62.7	V							
3.12	-62.8	V							
Mid Channel (782MHz)									
1.56	58.9	H	3.0	16.1	39.8	1.0	54.9	-15.0	-41.9
2.34	-62.4	H	3.0	15.6	39.6	1.0	52.5	-15.0	-42.5
3.12	-62.4	H	3.0	13.4	39.4	1.0	51.8	-15.0	-38.8
1.56	59.3	V	3.0	15.5	39.8	1.0	54.2	-15.0	-41.2
2.34	-62.9	V	3.0	15.5	39.6	1.0	54.1	-15.0	-41.1
3.12	-62.9	V	3.0	12.8	39.4	1.0	51.2	-15.0	-36.2
High Channel (1)									
1.56	59.3	H							
2.34	-62.7	H							
3.12	-62.4	H							
1.56	59.3	V							
2.34	-62.7	V							
3.12	-62.8	V							

Rev. 10.28.15

  

High Frequency Substitution Measurement UL RTP Radiated Chamber									
High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test:</b> Horn-Antennas-Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) <b>Mode:</b> LTE band 13, 10MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B13 10MHz QPSK									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (1)									
1.56	59.2	H							
2.34	-62.4	H							
3.12	-63.0	H							
1.56	59.2	V							
2.34	-62.9	V							
3.12	-62.5	V							
Mid Channel (784MHz)									
1.56	61.5	H	3.0	16.4	39.8	1.0	55.1	-15.0	-42.1
2.34	-62.4	H	3.0	15.3	39.6	1.0	52.5	-15.0	-41.5
3.12	-61.1	H	3.0	14.1	39.4	1.0	52.5	-15.0	-39.5
1.56	61.5	V	3.0	17.1	39.8	1.0	55.8	-15.0	-42.8
2.34	-62.9	V	3.0	15.8	39.6	1.0	54.4	-15.0	-41.4
3.12	-62.9	V	3.0	12.9	39.4	1.0	51.2	-15.0	-36.2
High Channel (1)									
1.56	59.3	H							
2.34	-62.7	H							
3.12	-62.4	H							
1.56	59.3	V							
2.34	-62.7	V							
3.12	-62.8	V							

Rev. 10.28.15

  

High Frequency Substitution Measurement UL RTP Radiated Chamber									
High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-07 <b>Test:</b> Horn-Antennas-Kiewra <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) <b>Mode:</b> LTE band 13, 10MHz 16QAM									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B13 10MHz 16QAM									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (dBiV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (1)									
1.56	59.2	H							
2.34	-62.4	H							
3.12	-62.4	H							
1.56	59.2	V							
2.34	-62.9	V							
3.12	-62.5	V							
Mid Channel (784MHz)									
1.56	61.5	H	3.0	16.4	39.8	1.0	55.1	-15.0	-42.1
2.34	-62.4	H	3.0	15.3	39.6	1.0	52.5	-15.0	-41.5
3.12	-61.1	H	3.0	14.1	39.4	1.0	52.5	-15.0	-39.5
1.56	61.5	V	3.0	17.1	39.8	1.0	55.8	-15.0	-42.8
2.34	-62.9	V	3.0	15.8	39.6	1.0	54.4	-15.0	-41.4
3.12	-62.9	V	3.0	12.9	39.4	1.0	51.2	-15.0	-36.2
High Channel (1)									
1.56	59.3	H							
2.34	-62.7	H							
3.12	-62.4	H							
1.56	59.3	V							
2.34	-62.7	V							
3.12	-62.8	V							

Rev. 10.28.15

## LTE Band 17

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-08 <b>Test:</b> Horn, Dark Noting <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 17, 5MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
ERP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	ERP	Limit	Delta
Low Channel (700MHz)									
2.12	-62.3	H	3.0	16.3	39.9	1.0	53.5	-13.0	-40.5
2.12	-62.3	H	3.0	16.2	40.1	1.0	53.4	-13.0	-42.4
2.83	-65.3	H	3.0	17.3	39.3	1.0	55.6	-13.0	-42.2
1.41	-57.5	V	3.0	14.1	39.9	1.0	53.0	-13.0	-40.0
2.12	-62.9	V	3.0	15.5	40.1	1.0	54.6	-13.0	-41.6
2.83	-64.4	V	3.0	15.2	39.3	1.0	54.5	-13.0	-40.5
Mid Channel (710MHz)									
1.42	-54.6	H	3.0	12.6	39.9	1.0	51.5	-13.0	-38.5
2.12	-62.7	H	3.0	16.7	40.1	1.0	53.0	-13.0	-42.7
2.84	-65.0	H	3.0	16.9	39.3	1.0	55.2	-13.0	-42.2
1.42	-56.8	V	3.0	14.1	39.9	1.0	52.2	-13.0	-39.2
2.13	-63.1	V	3.0	15.7	40.1	1.0	54.8	-13.0	-41.6
2.84	-64.9	V	3.0	15.7	39.3	1.0	54.6	-13.0	-41.0
High Channel (713.5)									
1.43	-54.5	H	3.0	12.5	39.9	1.0	51.4	-13.0	-38.4
2.14	-62.5	H	3.0	16.5	40.1	1.0	53.6	-13.0	-42.6
2.85	-65.5	H	3.0	16.9	39.3	1.0	55.2	-13.0	-42.7
1.43	-57.0	V	3.0	13.5	39.9	1.0	52.3	-13.0	-39.3
2.14	-62.4	V	3.0	17.3	40.1	1.0	54.9	-13.0	-41.6
2.85	-64.4	V	3.0	15.1	39.3	1.0	53.4	-13.0	-40.4
Rev. 10.28.15									
LTE B17 5MHz QPSK									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-08 <b>Test:</b> Horn, Dark Noting <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 17, 5MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
ERP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	ERP	Limit	Delta
Low Channel (709MHz)									
1.42	-56.0	H	3.0	11.1	39.9	1.0	52.5	-13.0	-39.9
2.12	-62.3	H	3.0	16.2	40.1	1.0	53.3	-13.0	-42.3
2.83	-64.9	H	3.0	16.9	39.3	1.0	55.2	-13.0	-42.2
1.418	-58.8	V	3.0	15.3	39.9	1.0	54.2	-13.0	-41.2
2.127	-62.5	V	3.0	15.2	40.1	1.0	54.3	-13.0	-41.3
2.838	-64.1	V	3.0	15.1	39.3	1.0	53.4	-13.0	-40.4
Mid Channel (710MHz)									
1.420	-56.0	H	3.0	14.0	39.9	1.0	52.9	-13.0	-39.9
2.12	-62.0	H	3.0	17.9	40.1	1.0	53.9	-13.0	-42.9
2.840	-64.4	H	3.0	16.3	39.3	1.0	54.6	-13.0	-41.6
1.418	-58.8	V	3.0	15.0	39.9	1.0	54.2	-13.0	-41.2
2.127	-62.5	V	3.0	15.3	40.1	1.0	54.4	-13.0	-41.4
2.840	-64.4	V	3.0	15.1	39.3	1.0	53.6	-13.0	-40.6
High Channel (711MHz)									
1.420	-56.0	H	3.0	14.0	39.9	1.0	52.9	-13.0	-39.9
2.12	-62.0	H	3.0	17.9	40.1	1.0	53.9	-13.0	-42.9
2.840	-64.4	H	3.0	16.5	39.3	1.0	54.8	-13.0	-41.8
1.430	-58.5	V	3.0	15.0	39.9	1.0	54.0	-13.0	-41.0
2.130	-60.6	V	3.0	12.1	40.1	1.0	51.2	-13.0	-38.2
2.840	-64.9	V	3.0	12.7	39.3	1.0	53.9	-13.0	-38.9
High Channel (711MHz)									
1.422	-55.4	H	3.0	13.4	39.9	1.0	52.3	-13.0	-39.3
2.133	-62.3	H	3.0	16.1	40.1	1.0	53.2	-13.0	-42.3
2.843	-64.3	H	3.0	16.9	39.3	1.0	55.0	-13.0	-42.4
1.422	-67.3	V	3.0	15.6	39.9	1.0	52.7	-13.0	-40.7
2.133	-63.2	V	3.0	17.7	40.1	1.0	54.8	-13.0	-41.6
2.844	-64.3	V	3.0	15.1	39.3	1.0	53.4	-13.0	-40.4
Rev. 10.28.16									
LTE B17 10MHz QPSK									
<b>Company:</b> SOMIC <b>Project #:</b> 11139405 <b>Date:</b> 2016-04-08 <b>Test:</b> Horn, Dark Noting <b>Configuration:</b> EUT w/ AC Adaptor and Earbuds (Sample #2312247 Y-Axis) <b>Mode:</b> LTE band 17, 10MHz 16QAM <td data-kind="ghost"></td>									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
ERP									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	ERP	Limit	Delta
Low Channel (709MHz)									
1.42	-56.0	H	3.0	14.1	39.9	1.0	53.9	-13.0	-40.0
2.12	-62.6	H	3.0	16.5	40.1	1.0	55.6	-13.0	-42.6
2.836	-64.4	H	3.0	16.3	39.3	1.0	54.6	-13.0	-41.6
1.418	-58.8	V	3.0	15.4	39.9	1.0	54.2	-13.0	-41.2
2.127	-62.8	V	3.0	15.3	40.1	1.0	54.4	-13.0	-41.4
2.838	-64.4	V	3.0	15.1	39.3	1.0	53.6	-13.0	-40.6
Mid Channel (710MHz)									
1.420	-56.0	H	3.0	14.0	39.9	1.0	52.9	-13.0	-39.9
2.12	-62.0	H	3.0	17.9	40.1	1.0	53.9	-13.0	-42.9
2.840	-64.4	H	3.0	16.5	39.3	1.0	54.8	-13.0	-41.8
1.430	-58.5	V	3.0	15.1	39.9	1.0	54.0	-13.0	-41.0
2.130	-60.6	V	3.0	12.1	40.1	1.0	51.2	-13.0	-38.2
2.840	-64.9	V	3.0	12.4	39.3	1.0	53.7	-13.0	-38.7
High Channel (711MHz)									
1.422	-55.4	H	3.0	13.1	39.9	1.0	52.0	-13.0	-39.0
2.133	-62.3	H	3.0	16.6	40.1	1.0	53.4	-13.0	-42.3
2.843	-64.2	H	3.0	16.1	39.3	1.0	55.3	-13.0	-42.4
1.422	-67.3	V	3.0	14.1	39.9	1.0	53.0	-13.0	-40.0
2.133	-62.9	V	3.0	17.5	40.1	1.0	54.6	-13.0	-41.6
2.844	-64.2	V	3.0	15.0	39.3	1.0	53.3	-13.0	-40.3
Rev. 10.28.16									
LTE B17 10MHz 16QAM									

## LTE Band 26

High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber																			
Company: SMC Project #: 11139405 Date: 2016-04-10 Test Engineer: Mark Nelling Configuration: EUT w/ AC Adaptor and Carbuds (Sample #2312247 Z-Axis) Mode: LTE Band 26 (905), 1.4MHz QPSK										Company: SMC Project #: 11139405 Date: 2016-04-10 Test Engineer: Mark Nelling Configuration: EUT w/ AC Adaptor and Carbuds (Sample #2312247 Z-Axis) Mode: LTE Band 26 (905), 1.4MHz 16QAM																			
Test Equipment: Substitution: Horn AT0978 Substitution, and CBL010 SMA Cable										Test Equipment: Substitution: Horn AT0978 Substitution, and CBL010 SMA Cable																			
ERP																													
Rev. 10.20.15																													
LTE B26 1.4MHz QPSK																													
High Frequency Substitution Measurement UL RTP Radiated Chamber										High Frequency Substitution Measurement UL RTP Radiated Chamber																			
Frequency (GHz)		SA reading (dBm)	Ant. Pol. (dBiV)	Distance	ERP @ TX Ant End (dBm)	Preamplifier	Attenuator	ERP	Limit	Delta	Frequency (GHz)		SA reading (dBm)	Ant. Pol. (dBiV)	Distance	ERP @ TX Ant End (dBm)	Preamplifier	Attenuator	ERP	Limit									
Low Channel (014.8MHz) (Part 905)		H	3.0	18.0	39.9	1.0	57.7	13.0	44.6		Low Channel (014.8MHz) (Part 905)		H	3.0	19.1	39.9	1.0	58.0	13.0	45.0									
2.44	-63.3	H	3.0	18.0	39.4	1.0	55.2	13.0	42.2	2.44	-63.3	H	3.0	17.5	39.4	1.0	55.6	13.0	42.6										
2.46	-65.5	H	3.0	18.0	39.7	1.0	54.1	13.0	41.1	2.46	-65.5	H	3.0	17.1	39.5	1.0	54.8	13.0	40.8										
2.48	-62.2	V	3.0	17.3	39.9	1.0	56.3	13.0	43.3	2.48	-62.2	V	3.0	17.3	39.9	1.0	56.9	13.0	45.0										
2.50	-64.4	V	3.0	17.3	39.5	1.0	54.7	13.0	41.7	2.50	-64.4	V	3.0	17.3	39.5	1.0	55.2	13.0	42.2										
2.52	-66.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.52	-66.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.54	-68.8	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.54	-68.8	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.56	-71.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.56	-71.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.58	-73.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.58	-73.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.60	-75.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.60	-75.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.62	-77.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.62	-77.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.64	-80.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.64	-80.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.66	-82.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.66	-82.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.68	-84.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.68	-84.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.70	-86.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.70	-86.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.72	-88.8	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.72	-88.8	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.74	-91.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.74	-91.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.76	-93.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.76	-93.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.78	-95.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.78	-95.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.80	-97.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.80	-97.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.82	-100.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.82	-100.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.84	-102.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.84	-102.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.86	-104.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.86	-104.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.88	-106.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.88	-106.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.90	-108.8	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.90	-108.8	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.92	-111.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.92	-111.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.94	-113.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.94	-113.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.96	-115.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.96	-115.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
2.98	-117.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	2.98	-117.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.00	-120.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.00	-120.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.02	-122.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.02	-122.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.04	-124.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.04	-124.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.06	-126.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.06	-126.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.08	-128.8	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.08	-128.8	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.10	-131.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.10	-131.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.12	-133.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.12	-133.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.14	-135.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.14	-135.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.16	-137.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.16	-137.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.18	-140.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.18	-140.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.20	-142.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.20	-142.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.22	-144.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.22	-144.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.24	-146.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.24	-146.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.26	-148.8	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.26	-148.8	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.28	-151.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.28	-151.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.30	-153.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.30	-153.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.32	-155.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.32	-155.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.34	-157.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.34	-157.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.36	-160.0	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.36	-160.0	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.38	-162.2	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.38	-162.2	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.40	-164.4	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.40	-164.4	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.42	-166.6	V	3.0	17.3	39.5	1.0	54.1	13.0	40.1	3.42	-166.6	V	3.0	17.3	39.5	1.0	54.5	13.0	40.4										
3.44	-168.8	V	3.0	17.3																									

High Frequency Substitution Measurement UL RTP Radiated Chamber											High Frequency Substitution Measurement UL RTP Radiated Chamber										
Company: SODC Project #: 11139405 Date: 2016-04-10 Test Engineer: Mark Notting Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) Mode: LTE Band 26, 10MHz QPSK											Company: SODC Project #: 11139405 Date: 2016-04-10 Test Engineer: Mark Notting Configuration: EUT w/ AC Adaptor and Earbuds (Sample #2312247 Z-Axis) Mode: LTE Band 26, 10MHz QPSK										
Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable											Test Equipment: Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable										
EIRP											EIRP										
<b>Frequency (GHz)</b>											<b>Frequency (GHz)</b>										
<b>SA reading (dBm)</b>											<b>SA reading (dBm)</b>										
<b>Ant. Pol. (H/V)</b>											<b>Ant. Pol. (H/V)</b>										
<b>Distance</b>											<b>Distance</b>										
<b>EIRP @ TX Ant End (dBm)</b>											<b>EIRP @ TX Ant End (dBm)</b>										
<b>Preamp</b>											<b>Preamp</b>										
<b>Attenuator</b>											<b>Attenuator</b>										
<b>EIRP</b>											<b>EIRP</b>										
<b>Limit</b>											<b>Limit</b>										
<b>Delta</b>											<b>Delta</b>										
<b>Mid Channel (8.51GHz)</b>											<b>Mid Channel (8.51GHz)</b>										
1.66	-61.9	H	3.0	-16.7	39.9	1.0	-57.3	-13.0	-44.3		1.66	-61.9	H	3.0	-16.6	39.9	1.0	-57.1	-13.0	-44.1	
2.49	-63.4	H	3.0	-16.5	39.7	1.0	-57.8	-13.0	-44.8		2.49	-63.4	H	3.0	-16.5	39.7	1.0	-56.7	-13.0	-43.8	
3.22	-65.7	H	3.0	-16.3	39.5	1.0	-54.8	-13.0	-41.9		3.22	-65.7	H	3.0	-16.9	39.5	1.0	-54.3	-13.0	-41.3	
4.06	-67.0	V	3.0	-16.0	39.3	1.0	-55.6	-13.0	-42.7		4.06	-67.0	V	3.0	-17.5	39.9	1.0	-56.6	-13.0	-43.6	
4.89	-68.5	V	3.0	-16.8	39.5	1.0	-56.0	-13.0	-42.0		4.89	-68.5	V	3.0	-16.7	39.3	1.0	-55.9	-13.0	-42.0	
5.38	-69.5	V	3.0	-16.2	39.5	1.0	-55.7	-13.0	-40.7		5.38	-69.5	V	3.0	-16.7	39.5	1.0	-55.7	-13.0	-40.7	
<b>Low Channel (9.29MHz)</b>											<b>Low Channel (9.29MHz)</b>										
1.66	-61.9	H	3.0	-16.1	39.9	1.0	-57.0	-13.0	-44.3		1.66	-61.9	H	3.0	-16.6	39.9	1.0	-57.1	-13.0	-44.5	
2.49	-63.4	H	3.0	-16.0	39.5	1.0	-55.1	-13.0	-42.1		2.49	-63.4	H	3.0	-17.3	39.5	1.0	-55.5	-13.0	-42.5	
3.32	-65.7	H	3.0	-16.5	39.5	1.0	-54.8	-13.0	-41.9		3.32	-65.7	H	3.0	-16.7	39.5	1.0	-54.7	-13.0	-41.7	
4.16	-67.0	V	3.0	-16.8	39.5	1.0	-55.6	-13.0	-42.6		4.16	-67.0	V	3.0	-17.5	39.9	1.0	-56.4	-13.0	-43.4	
4.99	-68.5	V	3.0	-16.4	39.5	1.0	-55.6	-13.0	-41.6		4.99	-68.5	V	3.0	-17.7	39.5	1.0	-56.4	-13.0	-42.4	
5.38	-69.5	V	3.0	-16.2	39.5	1.0	-55.7	-13.0	-40.7		5.38	-69.5	V	3.0	-17.7	39.5	1.0	-56.2	-13.0	-40.7	
<b>Mid Channel (8.51MHz)</b>											<b>Mid Channel (8.51MHz)</b>										
1.66	-61.9	H	3.0	-17.1	39.9	1.0	-56.0	-13.0	-43.0		1.66	-61.9	H	3.0	-16.2	39.9	1.0	-57.1	-13.0	-44.1	
2.49	-63.4	H	3.0	-16.7	39.7	1.0	-56.8	-13.0	-43.8		2.49	-63.4	H	3.0	-16.3	39.7	1.0	-56.5	-13.0	-43.5	
3.32	-65.7	H	3.0	-16.2	39.5	1.0	-54.5	-13.0	-41.5		3.32	-65.7	H	3.0	-16.9	39.5	1.0	-54.3	-13.0	-41.3	
4.16	-67.0	V	3.0	-16.5	39.5	1.0	-55.4	-13.0	-42.4		4.16	-67.0	V	3.0	-17.7	39.9	1.0	-56.6	-13.0	-43.6	
4.99	-68.5	V	3.0	-16.8	39.3	1.0	-55.0	-13.0	-42.0		4.99	-68.5	V	3.0	-17.5	39.3	1.0	-55.9	-13.0	-42.0	
5.38	-69.5	V	3.0	-16.5	39.5	1.0	-54.1	-13.0	-41.1		5.38	-69.5	V	3.0	-17.7	39.5	1.0	-54.2	-13.0	-41.2	
<b>High Channel (9.29MHz)</b>											<b>High Channel (9.29MHz)</b>										
1.66	-61.9	H	3.0	-17.0	39.9	1.0	-56.0	-13.0	-43.0		1.66	-61.9	H	3.0	-17.6	39.9	1.0	-56.5	-13.0	-43.5	
2.49	-63.4	H	3.0	-16.5	39.2	1.0	-54.0	-13.0	-41.8		2.49	-63.4	H	3.0	-16.6	39.2	1.0	-55.1	-13.0	-42.1	
3.32	-65.1	H	3.0	-16.6	39.5	1.0	-54.1	-13.0	-41.1		3.32	-65.2	H	3.0	-16.7	39.5	1.0	-54.2	-13.0	-41.2	
4.16	-66.2	V	3.0	-17.0	39.9	1.0	-55.9	-13.0	-42.9		4.16	-66.2	V	3.0	-17.6	39.9	1.0	-56.0	-13.0	-43.0	
4.99	-67.6	V	3.0	-16.5	39.5	1.0	-54.2	-13.0	-41.2		4.99	-67.6	V	3.0	-17.7	39.5	1.0	-54.3	-13.0	-41.3	
5.38	-68.1	V	3.0	-16.4	39.5	1.0	-53.3	-13.0	-40.3		5.38	-68.1	V	3.0	-17.7	39.5	1.0	-53.4	-13.0	-40.3	
<b>Mid Channel (8.51MHz)</b>											<b>Mid Channel (8.51MHz)</b>										
1.66	-60.7	H	3.0	-17.1	39.9	1.0	-56.0	-13.0	-43.0		1.66	-60.7	H	3.0	-17.1	39.9	1.0	-56.0	-13.0	-43.0	
2.49	-62.2	H	3.0	-16.7	39.7	1.0	-55.7	-13.0	-42.7		2.49	-62.2	H	3.0	-16.7	39.7	1.0	-55.7	-13.0	-42.7	
3.32	-64.4	H	3.0	-16.5	39.5	1.0	-54.5	-13.0	-41.5		3.32	-64.2	H	3.0	-16.8	39.5	1.0	-54.3	-13.0	-41.3	
4.16	-65.7	V	3.0	-16.0	39.5	1.0	-54.1	-13.0	-41.1		4.16	-65.7	V	3.0	-16.8	39.5	1.0	-54.2	-13.0	-41.2	
4.99	-67.0	V	3.0	-16.5	39.5	1.0	-53.2	-13.0	-40.2		4.99	-67.0	V	3.0	-16.8	39.5	1.0	-53.3	-13.0	-40.2	
5.38	-68.5	V	3.0	-16.4	39.5	1.0	-52.3	-13.0	-39.3		5.38	-68.5	V	3.0	-16.8	39.5	1.0	-52.4	-13.0	-39.3	
<b>High Channel (8.51MHz)</b>											<b>High Channel (8.51MHz)</b>										
1.66	-60.7	H	3.0	-17.0	39.9	1.0	-56.0	-13.0	-43.0		1.66	-60.7	H	3.0	-17.6	39.9	1.0	-56.5	-13.0	-43.5	
2.49	-62.2	H	3.0	-16.5	39.2	1.0	-54.0	-13.0	-41.8		2.49	-62.2	H	3.0	-16.6	39.2	1.0	-55.1	-13.0	-42.1	
3.32	-64.1	H	3.0	-16.6	39.5	1.0	-54.1	-13.0	-41.1		3.32	-64.2	H	3.0	-16.7	39.5	1.0	-54.2	-13.0	-41.2	
4.16	-65.7	V	3.0	-17.0	39.9	1.0	-55.9	-13.0	-42.9		4.16	-65.7	V	3.0	-17.6	39.9	1.0	-56.0	-13.0	-43.0	
4.99	-67.0	V	3.0	-16.5	39.5	1.0	-54.2	-13.0	-41.2		4.99	-67.0	V	3.0	-17.7	39.5	1.0	-			

LTE Band 41

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMC <b>Project:</b> R11139405 <b>Date:</b> 2016-04-27 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EVT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 41; 20MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B41									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (2500MHz)									
5.01	-63.7	H	3.0	11.1	40.3	1.0	-59.4	-25.0	-25.4
7.92	-65.4	H	3.0	10.9	40.0	1.0	-59.6	-25.0	-25.4
10.02	-67.0	H	3.0	7.6	38.3	1.0	-45.1	-25.0	-20.1
5.01	64.0	V	3.0	11.4	40.3	1.0	-50.7	-25.0	-25.7
7.92	-66.3	V	3.0	10.1	38.9	1.0	-49.0	-25.0	-23.0
10.02	-68.7	V	3.0	4.9	38.3	1.0	-44.3	-25.0	-19.3
Mid Channel (2750MHz)									
5.19	-63.0	H	3.0	-10.0	40.3	1.0	-49.4	-25.0	-24.4
7.78	-65.9	H	3.0	-9.1	38.9	1.0	-47.0	-25.0	-22.0
10.37	-66.4	H	3.0	-6.4	38.3	1.0	-43.7	-25.0	-18.7
5.19	63.5	V	3.0	10.7	40.3	1.0	-50.0	-25.0	-25.0
7.78	-65.5	V	3.0	-8.3	38.9	1.0	-48.3	-25.0	-23.3
10.37	-66.8	V	3.0	-7.2	38.3	1.0	-44.5	-25.0	-19.5
High Channel (2680MHz)									
5.04	-63.0	H	3.0	11.8	40.2	1.0	-51.0	-25.0	-26.0
8.04	-66.4	H	3.0	-9.4	38.8	1.0	-47.2	-25.0	-22.2
10.72	-66.5	H	3.0	-6.4	38.3	1.0	-43.7	-25.0	-18.7
5.36	64.5	V	3.0	11.5	40.2	1.0	-50.7	-25.0	-25.7
8.04	-65.5	V	3.0	-8.7	38.8	1.0	-48.5	-25.0	-21.5
10.72	-66.4	V	3.0	-6.4	38.3	1.0	-44.8	-25.0	-18.8

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LTE B41 20MHz QPSK

High Frequency Substitution Measurement UL RTP Radiated Chamber									
<b>Company:</b> SOMC <b>Project:</b> R11139405 <b>Date:</b> 2016-04-27 <b>Test Engineer:</b> Brian Kiewra <b>Configuration:</b> EVT w/ AC Adaptor and Headphones (Sample # 2312247 Y-Axis) <b>Mode:</b> LTE Band 41; 20MHz QPSK									
<b>Test Equipment:</b> Substitution: Horn AT0078 Substitution, and CBL010 SMA Cable									
LTE B41									
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (2500MHz)									
5.01	-63.7	H	3.0	11.1	40.3	1.0	-59.4	-25.0	-25.4
7.92	-65.4	H	3.0	10.9	40.0	1.0	-59.6	-25.0	-25.4
10.02	-67.0	H	3.0	7.8	38.3	1.0	-45.1	-25.0	-20.1
5.01	64.0	V	3.0	11.4	40.3	1.0	-50.7	-25.0	-25.7
7.92	-66.3	V	3.0	10.1	38.9	1.0	-48.9	-25.0	-23.0
10.02	-68.7	V	3.0	4.9	38.3	1.0	-44.3	-25.0	-19.3
Mid Channel (2750MHz)									
5.19	-63.0	H	3.0	-10.0	40.3	1.0	-49.4	-25.0	-24.4
7.78	-65.9	H	3.0	-9.1	38.9	1.0	-47.0	-25.0	-22.0
10.37	-66.4	H	3.0	-6.4	38.3	1.0	-43.7	-25.0	-18.7
5.19	63.5	V	3.0	10.7	40.3	1.0	-50.0	-25.0	-25.0
7.78	-65.5	V	3.0	-8.3	38.9	1.0	-48.3	-25.0	-23.3
10.37	-66.8	V	3.0	-7.2	38.3	1.0	-44.5	-25.0	-19.5
High Channel (2680MHz)									
5.04	-63.0	H	3.0	11.8	40.2	1.0	-51.0	-25.0	-26.0
8.04	-66.4	H	3.0	-9.4	38.8	1.0	-47.2	-25.0	-22.2
10.72	-66.5	H	3.0	-6.4	38.3	1.0	-43.7	-25.0	-18.7
5.36	64.5	V	3.0	11.5	40.2	1.0	-50.7	-25.0	-25.7
8.04	-65.5	V	3.0	-8.7	38.8	1.0	-48.5	-25.0	-21.5
10.72	-66.4	V	3.0	-6.4	38.3	1.0	-44.8	-25.0	-18.8

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LTE B41 20MHz 16QAM