

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	115.90	28.07	3.98	80.0	± 9.6 %
		Y	100.00	112.84	26.35		80.0	
		Z	100.00	114.41	27.18		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	100.00	116.78	26.96	2.22	100.0	± 9.6 %
		Y	100.00	111.69	24.44		100.0	
		Z	100.00	114.68	25.86		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	100.00	120.91	26.72	0.97	120.0	± 9.6 %
		Y	100.00	108.87	21.46		120.0	
		Z	100.00	116.35	24.67		120.0	

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	835	1750	1900	2300-2600	5200-5800
Tissue	Body	Body	Body	Body	Body	Body
Ingredients (% by weight)						
Bactericide	See page 2	0.1				
DGBE			31	29.44	26.7	
HEC		1				
NaCl		0.94	0.2	0.39	0.1	
Sucrose		44.9				
Polysorbate (Tween) 80						20
Water		53.06	68.8	70.17	73.2	80

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 08/13/18 - 09/13/18	DUT Type: Tablet Device		APPENDIX D: Page 1 of 2

2 Composition / Information on ingredients

The Item is composed of the following ingredients:

H ₂ O	Water, 35 – 58%
Sucrose	Sugar, white, refined, 40 – 60%
NaCl	Sodium Chloride, 0 – 6%
Hydroxyethyl-cellulose	Medium Viscosity (CAS# 9004-62-0), <0.3%
Preventol-D7	Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1 – 0.7%
Relevant for safety; Refer to the respective Safety Data Sheet*.	

Figure D-1

Composition of 750 MHz Body Tissue Equivalent Matter

Note: 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MSL750V2)
Product No.	SL AAM 075 AA (Batch: 150518-2)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient	Environment temperatur (22 $\pm$ 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Apr-16
Operator	WM

Additional Information

TSL Density	1.212 g/cm ³
TSL Heat-capacity	3.006 kJ/(kg*K)

f [MHz]	Measured			Target			Diff. to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma	
600	57.2	24.76	0.83	56.1	0.95	2.0	-13.2	
625	57.0	24.43	0.85	56.0	0.95	1.7	-11.0	
650	56.7	24.11	0.87	55.9	0.96	1.4	-8.8	
675	56.4	23.82	0.89	55.8	0.96	1.1	-6.6	
700	56.1	23.53	0.92	55.7	0.96	0.7	-4.5	
725	55.9	23.32	0.94	55.6	0.96	0.5	-2.2	
750	55.7	23.12	0.96	55.5	0.96	0.2	0.1	
775	55.4	22.93	0.99	55.4	0.97	-0.1	2.4	
800	55.1	22.73	1.01	55.3	0.97	-0.4	4.6	
825	54.9	22.59	1.04	55.2	0.98	-0.7	6.0	
838	54.8	22.52	1.05	55.2	0.98	-0.8	6.7	
850	54.6	22.45	1.06	55.2	0.99	-0.9	7.4	
875	54.4	22.32	1.09	55.1	1.02	-1.2	6.6	
900	54.1	22.19	1.11	55.0	1.05	-1.6	5.8	
925	53.9	22.09	1.14	55.0	1.06	-1.9	6.9	
950	53.7	21.98	1.16	54.9	1.08	-2.2	8.0	
975	53.5	21.91	1.19	54.9	1.09	-2.6	9.3	
1000	53.2	21.83	1.21	54.8	1.10	-2.9	10.6	

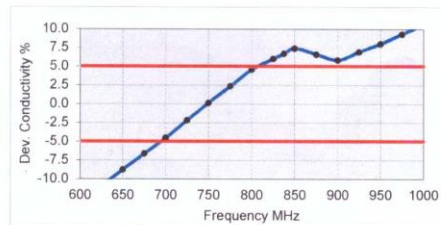
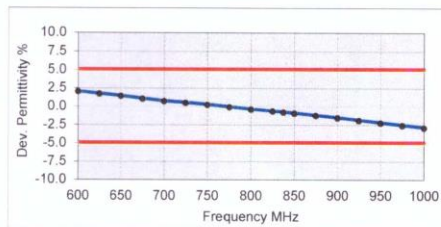


Figure D-2

750MHz Body Tissue Equivalent Matter

FCC ID: BCGA1934		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 08/13/18 - 09/13/18	DUT Type: Tablet Device		APPENDIX D: Page 2 of 2

APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE TYPE	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
							(σ)	(εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM3	750	8/29/2018	7416	EX3DV4	750	Body	0.960	55.009	PASS	PASS	PASS	N/A	N/A	N/A
AM5	750	4/24/2018	7490	EX3DV4	750	Body	0.940	57.400	PASS	PASS	PASS	N/A	N/A	N/A
AM5	835	4/24/2018	7490	EX3DV4	835	Body	0.979	57.188	PASS	PASS	PASS	GMSK	PASS	N/A
AM8	1750	6/20/2018	3287	ES3DV3	1750	Body	1.437	53.450	PASS	PASS	PASS	N/A	N/A	N/A
AM3	1900	2/6/2018	3288	ES3DV3	1900	Body	1.519	51.097	PASS	PASS	PASS	GMSK	PASS	N/A
AM6	1900	4/3/2018	3131	ES3DV3	1900	Body	1.555	51.277	PASS	PASS	PASS	GMSK	PASS	N/A
AM2	2300	6/29/2018	3022	ES3DV2	2300	Body	1.872	51.973	PASS	PASS	PASS	N/A	N/A	N/A
AM1	2450	7/16/2018	3275	ES3DV3	2450	Body	2.004	52.717	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM7	2450	4/2/2018	3329	ES3DV3	2450	Body	2.023	50.604	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM7	2600	4/3/2018	3329	ES3DV3	2600	Body	2.166	50.360	PASS	PASS	PASS	TDD	PASS	N/A
AM6	5250	4/5/2018	3837	EX3DV4	5250	Body	5.455	47.993	PASS	PASS	PASS	OFDM	N/A	PASS
AM6	5600	4/6/2018	3837	EX3DV4	5600	Body	5.963	47.270	PASS	PASS	PASS	OFDM	N/A	PASS
AM6	5750	4/6/2018	3837	EX3DV4	5750	Body	6.176	47.000	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

FCC ID: BCGA1934		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 08/13/18 - 09/13/18	DUT Type: Tablet Device		APPENDIX E: Page 1 of 1

APPENDIX G: POWER REDUCTION VERIFICATION

The device supports manufacturer's proprietary power reduction mechanism called "Detect Mode" for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used "on-body" or "held in hand" by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

1.1 Main Antenna Power Reduction Verification Summary

Table G-1
Main Antenna Power Reduction Verification

Mode/Band	Maximum Target Power [dBm] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Conducted Power [dBm]			Verdict
			Maximum	Test Case 1	Test Case 2	
GPRS 850 (2 Tx)	28.50 (±0.75)	26.95 (±0.75)	28.47	26.81	26.83	PASS
GPRS 1900 (2 Tx)	27.50 (±0.75)	20.55 (±0.75)	27.68	20.69	20.68	PASS
WCDMA B5	23.25 (±0.50)	19.50 (±0.50)	23.42	19.64	19.57	PASS
WCDMA B4	25.00 (±0.50)	14.25 (±0.50)	25.20	14.28	14.27	PASS
WCDMA B2	25.00 (±0.50)	13.70 (±0.50)	25.01	13.56	13.67	PASS
LTE Band 12	25.00 (±0.50)	19.50 (±0.50)	25.31	19.65	19.52	PASS
LTE Band 17	23.25 (±0.50)	19.20 (±0.50)	23.22	19.17	19.28	PASS
LTE Band 14	25.00 (±0.50)	20.80 (±0.50)	24.84	20.61	20.65	PASS
LTE Band 13	23.25 (±0.50)	20.80 (±0.50)	23.51	20.61	20.55	PASS
LTE Band 5	25.00 (±0.50)	20.90 (±0.50)	25.02	20.88	20.86	PASS
LTE Band 26	23.25 (±0.50)	19.80 (±0.50)	23.03	19.38	19.42	PASS
LTE Band 4	21.50 (±0.50)	14.20 (±0.50)	21.90	14.58	14.65	PASS
LTE Band 66	21.50 (±0.50)	14.20 (±0.50)	21.62	14.39	14.42	PASS
LTE Band 2	22.00 (±0.50)	13.20 (±0.50)	22.23	13.27	13.24	PASS
LTE Band 25	21.50 (±0.50)	13.50 (±0.50)	21.49	13.48	13.46	PASS
LTE Band 25	22.00 (±0.50)	13.20 (±0.50)	22.12	13.29	13.26	PASS
LTE Band 25	24.00 (±0.50)	14.80 (±0.50)	24.50	15.21	15.26	PASS
LTE Band 30	23.00 (±0.50)	13.00 (±0.50)	23.18	13.29	13.04	PASS
LTE Band 7	23.50 (±0.50)	11.50 (±0.50)	23.59	11.61	11.52	PASS
LTE Band 41	26.50 (±0.50)	14.50 (±0.50)	26.78	14.64	14.64	PASS

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper, are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 08/13/18 – 09/13/18	DUT Type: Tablet Device		APPENDIX G: Page 1 of 1

APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table 1 – Example of Exclusion Table for SISO Configurations

[illegible]

Table 2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

Index	ACC	Supported Channel Bandwidth (MHz)				Restriction	Completely Covered by Measurement Support
		CC1	CC2	CC3	CC4		
ACC#001	CA [2C]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#006		
ACC#002	CA [2A] 2A	5, 10, 15, 20	5, 10, 15, 20	5, 10, 15, 20	ACC#007		
ACC#003	CA [2A] 2A	5, 10, 15, 20	5, 10, 15, 20	No	ACC#008		
ACC#004	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#009		
ACC#005	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#010		
ACC#006	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#011		
ACC#007	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#012		
ACC#008	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#013		
ACC#009	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#014		
ACC#010	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#015		
ACC#011	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#016		
ACC#012	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#017		
ACC#013	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#018		
ACC#014	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#019		
ACC#015	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#020		
ACC#016	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#021		
ACC#017	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#022		
ACC#018	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#023		
ACC#019	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#024		
ACC#020	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#025		
ACC#021	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#026		
ACC#022	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#027		
ACC#023	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#028		
ACC#024	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#029		
ACC#025	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#030		
ACC#026	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#031		
ACC#027	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#032		
ACC#028	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#033		
ACC#029	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#034		
ACC#030	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#035		
ACC#031	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#036		
ACC#032	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#037		
ACC#033	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#038		
ACC#034	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#039		
ACC#035	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#040		
ACC#036	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#041		
ACC#037	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#042		
ACC#038	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#043		
ACC#039	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#044		
ACC#040	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#045		
ACC#041	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#046		
ACC#042	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#047		
ACC#043	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#048		
ACC#044	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#049		
ACC#045	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#050		
ACC#046	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#051		
ACC#047	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#052		
ACC#048	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#053		
ACC#049	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#054		
ACC#050	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#055		
ACC#051	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#056		
ACC#052	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#057		
ACC#053	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#058		
ACC#054	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#059		
ACC#055	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#060		
ACC#056	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#061		
ACC#057	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#062		
ACC#058	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#063		
ACC#059	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#064		
ACC#060	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#065		
ACC#061	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#066		
ACC#062	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#067		
ACC#063	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#068		
ACC#064	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#069		
ACC#065	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#070		
ACC#066	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#071		
ACC#067	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#072		
ACC#068	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#073		
ACC#069	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#074		
ACC#070	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#075		
ACC#071	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#076		
ACC#072	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#077		
ACC#073	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#078		
ACC#074	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#079		
ACC#075	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#080		
ACC#076	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#081		
ACC#077	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#082		
ACC#078	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#083		
ACC#079	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#084		
ACC#080	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#085		
ACC#081	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#086		
ACC#082	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#087		
ACC#083	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#088		
ACC#084	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#089		
ACC#085	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#090		
ACC#086	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#091		
ACC#087	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#092		
ACC#088	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#093		
ACC#089	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#094		
ACC#090	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#095		
ACC#091	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#096		
ACC#092	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#097		
ACC#093	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#098		
ACC#094	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#099		
ACC#095	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#100		
ACC#096	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#101		
ACC#097	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#102		
ACC#098	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#103		
ACC#099	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#104		
ACC#100	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#105		
ACC#101	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#106		
ACC#102	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#107		
ACC#103	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#108		
ACC#104	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#109		
ACC#105	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#110		
ACC#106	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#111		
ACC#107	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#112		
ACC#108	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#113		
ACC#109	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#114		
ACC#110	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#115		
ACC#111	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#116		
ACC#112	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#117		
ACC#113	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#118		
ACC#114	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#119		
ACC#115	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#120		
ACC#116	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#121		
ACC#117	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#122		
ACC#118	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#123		
ACC#119	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#124		
ACC#120	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#125		
ACC#121	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#126		
ACC#122	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#127		
ACC#123	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#128		
ACC#124	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#129		
ACC#125	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#130		
ACC#126	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#131		
ACC#127	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#132		
ACC#128	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#133		
ACC#129	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#134		
ACC#130	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#135		
ACC#131	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#136		
ACC#132	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#137		
ACC#133	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#138		
ACC#134	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#139		
ACC#135	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#140		
ACC#136	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#141		
ACC#137	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#142		
ACC#138	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#143		
ACC#139	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#144		
ACC#140	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#145		
ACC#141	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#146		
ACC#142	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#147		
ACC#143	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#148		
ACC#144	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#149		
ACC#145	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#150		
ACC#146	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#151		
ACC#147	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#152		
ACC#148	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#153		
ACC#149	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#154		
ACC#150	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#155		
ACC#151	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#156		
ACC#152	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#157		
ACC#153	CA [2A] 4A [2]	5, 10, 15, 20	5, 10, 15, 20	No	ACC#158		
ACC#154	CA [2A] 4A [2]	5, 10, 15, 20					

Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 1 of 37

1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.
- When a device supports LTE capabilities with overlapping transmission frequency ranges, the standalone powers from the band with a larger transmission frequency range can be used to select measurement configurations for the band with the fully covered transmission frequency range.

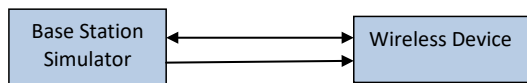


Figure 1
DL CA Power Measurement Setup

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 2 of 37

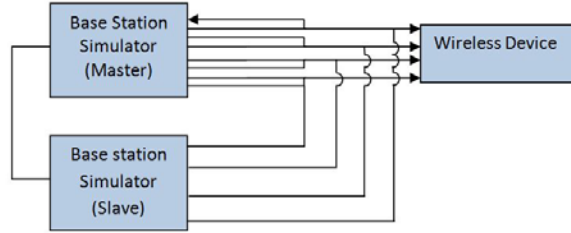


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL/RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				Power		
										SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA	LTE Single Carrier Tx Power [dBm]	
CA 2A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	19.67	19.70
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	19.68	19.70
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	19.68	19.70
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	19.70	19.70
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	19.70	19.70
CA 2C-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	19.68	19.70
CA 4A-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	-	19.66	19.70
CA 2A-2A-12B	LTE B12	5	23095	707.5	64QAM	1	0	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1960	LTE B2	20	700	1940	19.58	19.66	
CA 2A-2A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	19.65	19.70	
CA 2A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	19.63	19.70	
CA 2A-4A-12B	LTE B12	5	23095	707.5	64QAM	1	0	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	19.63	19.66	
CA 2A-2A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	19.67	19.70	
CA 2A-2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	19.66	19.70	
CA 2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.66	19.70	
CA 2A-12A-66C	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	19.64	19.70	
CA 2A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	19.67	19.70	
CA 2A-4A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	19.66	19.70	
CA 4A-4A-12B	LTE B12	5	23095	707.5	64QAM	1	0	5095	737.5	LTE B12	5	5047	732.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	19.62	19.66	
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	19.62	19.70	
CA 12A-30A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	25	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.65	19.70	

Table 2
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC 2				SCC 3				Power				
			PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA	LTE Single Carrier Tx Power [dBm]	
CA 2A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	19.99	20.00
CA 4A-12A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	19.86	20.00
CA 4A-12A (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	19.87	20.00
CA 12A-66A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	19.93	20.00
CA 12A-66A (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	19.94	20.00
CA 2C-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	20.00	20.00
CA 4A-7A-12A (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	-	20.00	20.00
CA 2A-2A-12B	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	19.98	20.00	
CA 2A-2A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	20.00	20.00	
CA 2A-4A-4A-12A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	19.90	20.00	
CA 2A-12B	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	19.98	20.00	
CA 2A-2A-12A-30A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	19.87	20.00	
CA 2A-2A-12A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	19.96	20.00	
CA 2A-12A-66A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.85	20.00	
CA 2A-12A-66C	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	20.00	20.00	
CA 2A-4A-12A-30A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	20.00	20.00	
CA 2A-12A-30A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	20.00	20.00	
CA 4A-4A-12B	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	20.00	20.00	
CA 4A-4A-12A-30A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	19.89	20.00	
CA 12A-30A-66A-66A	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	20.00	20.00	

FCC ID: BCGA1934		SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device		APPENDIX H: Page 3 of 37

1.3.2 LTE Band 17 as PCC

Table 3
Reduced Output Powers – Ant 1

	PCC									SCC 1				Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-17A	LTE B17	10	23790	710	QPSK	1	25	5790	740	LTE B2	10	900	1960	19.70	19.70
CA 4A-17A	LTE B17	10	23790	710	QPSK	1	25	5790	740	LTE B4	10	2175	2132.5	19.69	19.70

Table 4
Reduced Output Powers – Ant 3

Combination	PCC									SCC 1				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-17A	LTE B17	5	23755	706.5	16QAM	1	12	5755	736.5	LTE B2	10	900	1960	20.00	20.00
CA 4A-17A	LTE B17	5	23755	706.5	16QAM	1	12	5755	736.5	LTE B4	10	2175	2132.5	19.90	20.00

1.3.3 LTE Band 13 as PCC

Table 5
Reduced Output Powers – Ant 1

Combination	PCB Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC BW [MHz]	PCC (UL) Freq. [MHz]	PCC (DL) Freq. [MHz]	Mod.	PCC UL BW [MHz]	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 2A-4A-13A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B4	20	2175	2135					21.26	21.30
CA 2A-13A-66A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	5065	5537.5	21.26	21.30			21.26	21.30
CA 4A-4A-13A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	2175	2135	LTE B4	20	2350	2310					21.26	21.30
CA 13A-66A-66A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	5065	5537.5	LTE B46	20	6678	6749					21.20	21.30
CA 2A-13A-66C	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	5067	5117	21.26	21.30			21.26	21.30
CA 2A-13A-66A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	6678	6749					21.26	21.30
CA 2A-13A-66A-66A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	6678	6749	21.26	21.30			21.26	21.30
CA 2A-13A-66C	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	5067	5117	21.26	21.30			21.26	21.30
CA 2A-13A-66C	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	6678	6749	21.26	21.30			21.26	21.30
CA 13A-66A-66C	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	6678	6749	LTE B46	20	6678	6749	21.26	21.30			21.26	21.30
CA 13A-66A-66C	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	6678	6749	LTE B46	20	6678	6749	21.26	21.30			21.26	21.30
CA 13A-46C-66A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	5065	5537.5	LTE B46	20	6748	6749	21.26	21.30			21.24	21.30
CA 2A-13A-46D	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B2	20	900	1860	LTE B46	20	5067	5537.5	21.26	21.30			21.21	21.30
CA 13A-46E	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	5065	5537.5	LTE B46	20	5067	5537.7	21.26	21.30			21.20	21.30
CA 13A-66A-66A	LTE B13	10	2330	782	QPSK	1	0	5230	751	LTE B46	20	6678	6749	LTE B46	20	6678	6749	21.26	21.30			21.20	21.30

Table 6
Reduced Output Powers – Ant 3

Combination	PCB Band	PCC				SCC1				SCC2				SCC3				SCC4				Power			
		PCB BW [MHz]	PCC (UL) Freq. [MHz]	PCC (DL) Freq. [MHz]	Mod.	PCB UL RB Offset	PCC (UL) Channel	SCC Band	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 2A-4A-13A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B2	20	800	1560	LTE B4	20	2175	2125	-	-	-	-	-	-	21.20	21.30
CA 2A-13A-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B12	20	800	1560	LTE B46	20	5065	5015	-	-	-	-	-	-	21.20	21.30
CA 4A-4A-13A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B4	20	2175	2125	LTE B4	20	2150	2150	-	-	-	-	-	-	21.20	21.30
CA 13A-66A-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	5065	5015	LTE B46	20	6678	6628	-	-	-	-	-	-	21.20	21.30
CA 2A-13A-66C	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B2	20	800	1560	LTE B46	20	5067	5117	-	-	-	-	-	-	21.20	21.30
CA 2A-13A-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B2	20	800	1560	LTE B46	20	6678	6628	-	-	-	-	-	-	21.20	21.30
CA 2A-13A-66A-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B2	20	800	1560	LTE B46	20	6678	6628	-	-	-	-	-	-	21.22	21.30
CA 2A-13A-66C	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B2	20	800	1560	LTE B46	20	5067	5117	-	-	-	-	-	-	21.22	21.30
CA 13A-66A-66C	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	15	67261	6625	-	-	-	-	-	-	21.22	21.30
CA 13A-66C-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	15	67261	6625	-	-	-	-	-	-	21.22	21.30
CA 13A-46C-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	5065	5015	LTE B46	20	6678	6628	-	-	-	-	-	-	21.24	21.30
CA 2A-13A-46D	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B2	20	800	1560	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13A-46E	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	5065	5015	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13A-66D-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13A-66D-66C	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13A-66D-66E	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13A-66E-66A	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13A-66E-66C	LTE B13	20	2130	762	QPSK	1	49	5230	751	LTE B46	20	6678	6628	LTE B46	20	5067	5015	-	-	-	-	-	-	21.25	21.30
CA 13																									

1.3.4 LTE Band 14 as PCC

Table 7
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch	PCC				SSC 1				SSC 2				SSC 3				Power			
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)
CA_2A-2A-14A-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	21.18	21.28
CA_2A-14A-66A-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.21	21.30
CA_2A-14A-20A-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	LTE B2	20	900	1960	LTE B10	10	9820	2355	LTE B66	20	66786	2145	21.11	21.20
CA_14A-30A-66A-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	LTE B80	10	9820	2355	LTE B66	20	96726	2145	LTE B66	20	67236	2190	21.13	21.28

Table 8
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC					SCC 1					SCC 2			SCC 3				Power		
				PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_2A-2A-14A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	21.24	21.30
CA_2A-14A-66A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.24	21.30
CA_2A-14A-30A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B30	10	66786	2335	LTE B66	20	66786	2145	21.24	21.30
CA_14A-30A-66A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B30	20	9820	2365	LTE B66	20	66786	2335	LTE B66	20	67236	2190	21.24	21.30

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 4 of 37

1.3.5 LTE Band 5 as PCC

Table 9
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC					SSC 1					SSC 2					SSC 3					SSC 4					Power	
			PCC (UL) CH	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	LTE Tx Power [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 5A-7A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B7	20	3100	2655													20.29	20.30		
CA 5A-25A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B25	20	8365	1902.5													20.29	20.30		
CA 5A-46A(1)	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B46	20	2093	2593													20.29	20.30		
CA 5A-35A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B35	20	1167	1667			20	207	1902.5								20.29	20.30		
CA 5A-46A(1)	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B46	20	50665	5537.5					50667	5537.7							20.29	20.30		
CA 2A-2A-4A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B4	20	2125	2122.5						20.19	20.20	
CA 2A-2A-4A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	2125	2122.5														20.19	20.20	
CA 2A-2A-5A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B5	20	5	2453	874.3	LTE B2	20	900	1960	LTE B4	20	2125	2122.5					20.19	20.20	
CA 2A-2A-5A-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	20	6678	2145						20.17	20.20	
CA 2A-2A-5A-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	6678	2145						20.17	20.20	
CA 2A-2A-5A-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B66	20	6678	2145	LTE B66	20	6678	2145						20.17	20.20	
CA 2A-2A-5A-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B66	20	6678	2145	LTE B66	20	6678	2145						20.16	20.20	
CA 4A-4A-5B	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B5	5	2453	874.3	LTE B4	20	2125	2122.5	LTE B4	20	2125	2122.5						20.17	20.20	
CA 4A-4A-5B	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B5	20	2125	2122.5														20.17	20.20	
CA 5A-46A(1)	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	LTE B46	20	50661	5537.3						20.15	20.20	
CA 5A-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B66	20	6678	2145	LTE B66	20	6678	2145	LTE B66	20	6678	2145						20.15	20.20	
CA 5A-66A-66B	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B66	20	6678	2145	LTE B66	20	6678	2145	LTE B66	20	6678	2145						20.20	20.20	
CA 5A-66A-66B	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B66	20	6678	2145	LTE B66	20	6678	2145	LTE B66	20	6678	2145						20.22	20.20	
CA 5B-30A-66A-66A	LTE B5	20	2025	836.5	14QAM	2	98	5250	881.5	LTE B30	20	6678	2145	LTE B66	20	6678	2145	LTE B66	20	6678	2145						20.18	20.20	
CA 2A-2A-5A-66B	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	6678	2145	LTE B66	20	6678	2145	6678	2144.3	19.87	20.20
CA 2A-2A-5A-66C	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	6678	2145	LTE B66	20	6678	2145	6678	2144.8	19.88	20.20
CA 2A-5B-66A-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	6678	2145	LTE B66	20	6678	2145	6678	2144.8	19.88	20.20
CA 2A-5B-66A	LTE B5	20	2025	836.5	14QAM	1	49	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	6678	2145	LTE B66	20	6678	2145	6678	2144.8	19.81	20.20
CA 5B-30A-66A-66A	LTE B5	20	2025	836.5	14QAM	2	98	5250	881.5	LTE B30	20	6678	2145	LTE B66	20	6678	2145	LTE B66	20	6678	2145	LTE B66	20	6678	2145	6678	2144.8	19.88	20.20

Table 10
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch	PCC (UL) Freq. [MHz]	Mod.	SSC 1										SSC 3										SSC 4										Power	
						PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC (DL) Channel	SSC (DL) Freq. [MHz]	LTE Tx Power with PCC CA	LTE Single Carrier Tx Power (dBm)											
CA SA-7A	LTE RB	3	20325	836.5	4040M	1	7	2525	881.5	LTE B7	20	3100	2655									21.40	21.30														
CA SA-7A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B25	20	8305	1945.5									21.40	21.30														
CA SA-8A(1)	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B25	20	8305	1945.5									21.40	21.30														
CA SA-8A(1)	LTE B1	1	20325	836.5	4040M	1	7	2525	881.5	LTE B6	20	50665	5537.5									21.39	21.30														
CA SA-9A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	8305	1945.5									21.40	21.30														
CA SA-9A(1)	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B25	20	8305	1945.5									21.40	21.30														
CA SA-24A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	21.38	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	21.38	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	700	1940	LTE B30	10	8620	2355	21.33	21.30														
CA SA-24A-5A-5A	LTE B1	10	20325	836.5	1404M	1	25	2525	881.5	LTE B2	20	900	1580	LTE B2	20	70																					

1.3.6 LTE Band 26 as PCC

Table 11
Reduced Output Powers – Ant 1

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 25A-26A	LTE B26	10	26740	819	QPSK	1	25	8740	864	LTE B25	20	8365	1962.5	-	-	-	-	20.27	20.30
CA 25A-25A-26A	LTE B26	5	26715	816.5	16QAM	1	24	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	20.26	20.28

Table 12
Reduced Output Powers – Ant 3

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 25A-26A	LTE B26	10	26740	819	QPSK	1	25	8740	864	LTE B25	20	8365	1962.5	-	-	-	-	21.31	21.40
CA 25A-25A-26A	LTE B26	5	26715	816.5	64QAM	1	24	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	21.30	21.39

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 5 of 37

1.3.7 LTE Band 4 as PCC

Table 13
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC				Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	SCC 1				SCC 2				SCC 3				SCC 4				Power			
			PCC (UL) Ch.	PCC (UL) Freq. [MHz]	PCC (UL) Freq. [MHz]	PCC (DL) Freq. [MHz]					SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 2A-4A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.39	14.70	
CA 4A-12A (1)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.70	14.70	
CA 4A-12A (2)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.69	14.70	
CA 4A-17A	LTE B4	10	20300	1715	64QAM	1	49	2000	2115	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.70	14.68	
CA 4A-29A	LTE B4	20	20050	1715	64QAM	1	49	2000	2115	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.69	14.68	
CA 2A-4A-13A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	-	14.70	14.70
CA 4A-4A-7A (1)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	14.70	14.70
CA 4A-4A-13A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	-	14.70	14.70
CA 4A-4A-29A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	-	-	-	-	14.69	14.70
CA 4A-4A-46A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	-	-	-	-	14.66	14.70
CA 4A-7A-12A (1)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	14.70	14.70
CA 2A-2A-4A-4A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	14.66	14.70	
CA 2A-2A-4A-5A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	14.66	14.70
CA 2A-4A-5A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	14.70	14.70
CA 2A-2A-4A-12A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	14.70	14.70
CA 2A-4A-12B	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B12	10	5047	732.7	-	-	-	-	-	-	-	14.70	14.70
CA 2A-4A-5A-30A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	-	14.67	14.70
CA 2A-4A-12A-30A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	-	-	-	-	-	-	-	14.68	14.70
CA 2A-4A-29A-30A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B20	10	5715	722.5	LTE B30	10	8920	2355	-	-	-	-	-	-	-	14.68	14.70
CA 4A-4A-5A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	14.65	14.70
CA 4A-4A-12B	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B12	10	5095	737.5	LTE B12	10	5047	732.7	-	-	-	-	-	-	-	14.70	14.70
CA 4A-4A-46C	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	-	14.67	14.70
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	-	14.68	14.70
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	-	-	-	-	-	-	-	14.70	14.70
CA 4A-4A-46D	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B4	20	53144	5785.4	LTE B4	20	53144	5805.2	LTE B4	20	53144	5825	-	-	14.60	14.70	

Table 14
Reduced Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				Power			
										SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 2A-4A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	14.39	14.30	
CA 4A-12A (1)	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.30	14.30	
CA 4A-12A (2)	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.30	14.30	
CA 4A-17A	LTE B4	10	20000	1715	64QAM	1	49	2000	2115	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	-	-	-	-	-	14.30	14.30	
CA 4A-29A	LTE B4	20	20000	1715	64QAM	1	49	2000	2115	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.29	14.30	
CA 2A-4A-13A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA 4A-7A-7A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B7	20	3100	2655	LTE B7	20	2850	2630	-	-	-	-	-	-	-	-	-	-	14.20	14.30
CA 4A-4A-13A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA 4A-4A-29A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-46A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	-	-	-	14.23	14.30
CA 4A-7A-12A (1)	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA 2A-2A-4A-4A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	14.30	14.30
CA 2A-2A-4A-5A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	14.26	14.30
CA 2A-4A-5A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	-	-	14.20	14.30
CA 2A-2A-4A-12A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	14.22	14.30
CA 2A-4A-12B	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	14.23	14.30
CA 2A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.22	14.30
CA 2A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.25	14.30
CA 4A-4A-5A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12B	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B12	10	5047	732.7	-	-	-	-	-	-	-	-	-	-	14.30	14.30
CA 4A-4A-46C	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.25	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	-	-	-	-	-	-	14.23	14.30
CA 4A-4A-5A-30A	LTE B4	20	20050	1720	16QAM	1	99	2050	2120	LTE B4	20	2300																	

Table 16
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DC CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
				PCC (UL) Freq. [MHz]	PCC (UL) RB	PCC (UL) RB Offset	PCC (UL) RB Offset						SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		
CA 2A-4A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B2	20	900	1960															14.42	14.50
CA 4A-12A (1)	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B12	10	5095	737.5															14.42	14.50
CA 4A-12A (2)	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B12	10	5095	737.5															14.42	14.50
CA 4A-12A	LTE B4	5	20350	1745	16QAM	1	0	2300	2145		LTE B17	10	3700	740															14.48	14.50
CA 4A-20A	LTE B4	5	20350	1745	16QAM	1	0	2300	2145		LTE B29	10	9715	722.5															14.48	14.50
CA 2A-4A-13A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B2	20	900	1960	LTE B13	10	5230	751											14.49	14.50
CA 4A-4A-7A (1)	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B7	20	3100	2655											14.52	14.50
CA 4A-7A-7A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B7	20	3100	2655	LTE B7	20	3850	2630											14.51	14.50
CA 4A-4A-13A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B13	10	5230	751											14.50	14.50
CA 4A-4A-20A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B29	10	9715	722.5											14.50	14.50
CA 4A-4A-4A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B4	20	47090	5180											14.44	14.50
CA 2A-4A-12A (1)	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B7	20	3100	2655	LTE B12	10	5095	737.5											14.50	14.50
CA 2A-4A-4A-4A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B7	20	3850	2630											14.45	14.50
CA 2A-4A-5A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B2	20	900	1960	LTE B5	10	2525	881.5											14.46	14.50
CA 2A-4A-5A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B5	10	2525	881.5											14.44	14.50
CA 2A-4A-12A (2)	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B2	20	900	1960	LTE B12	10	5095	737.5											14.42	14.50
CA 2A-4A-12A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B12	10	5095	737.5											14.45	14.50
CA 2A-4A-12A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B12	10	5095	737.5											14.45	14.50
CA 2A-4A-5A-30A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B2	20	900	1960	LTE B5	10	2525	881.5											14.42	14.50
CA 2A-4A-12A-30A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B2	20	900	1960	LTE B12	10	5095	737.5											14.45	14.50
CA 2A-4A-20A-30A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B29	10	9715	722.5											14.48	14.50
CA 4A-4A-5A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B5	10	2525	881.5											14.44	14.50
CA 4A-4A-12A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B12	10	5095	737.5											14.42	14.50
CA 4A-4A-4A-5A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B5	10	2525	881.5											14.45	14.50
CA 4A-4A-4A-5A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B5	10	2525	881.5											14.48	14.50
CA 4A-4A-12A-30A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B12	10	5095	737.5											14.49	14.50
CA 4A-4A-4A-5A-30A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B12	10	5095	737.5											14.48	14.50
CA 4A-4A-4A-5A-30A	LTE B4	20	20050	1720	QPSK	5	0	2050	2120		LTE B4	20	2300	2145	LTE B12	10	5095	737.5											14.48	14.50

1.3.8 LTE Band 66 as PCC

Table 17
Reduced Output Powers – Ant 2A

Power																														
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DC CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
				PCC (UL) Freq. [MHz]	PCC (UL) RB	PCC (UL) RB Offset	SCC Band						SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]			
CA 2A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960														14.62	14.70	
CA 7A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960														14.62	14.70	
CA 12A-66A (1)	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B12	10	5095	737.5														14.67	14.70	
CA 12A-66A (2)	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B12	10	5095	737.5														14.67	14.70	
CA 2C-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960	LTE B2	20	700	1940										14.64	14.70	
CA 2A-4A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960	LTE B4	20	50665	5337.5										14.66	14.70	
CA 2A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960	LTE B29	10	9715	722.5										14.63	14.70	
CA 4A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B4	20	50665	5337.5	LTE B4	20	47090	5180										14.67	14.70	
CA 4A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B4	20	50665	5337.5	LTE B4	20	47090	5180										14.70	14.70	
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B2	20	900	1960	LTE B2	20	700	1940						14.68	14.70	
CA 2A-2A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5						14.62	14.70	
CA 2A-2A-12A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B12	10	5095	737.5						14.68	14.70	
CA 2A-12A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B12	10	5095	737.5	LTE B12	10	5095	737.5						14.65	14.70	
CA 2A-12A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B12	10	5095	737.5	LTE B12	10	5095	737.5						14.70	14.70	
CA 2A-2A-13A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B2	20	900	1960	LTE B13	10	5230	751										14.63	14.70	
CA 2A-13A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B13	10	5230	751										14.70	14.70	
CA 2A-13A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B13	10	5230	751										14.63	14.70	
CA 2A-2A-14A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B14	10	5330	763										14.66	14.70	
CA 2A-14A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B14	10	5330	763										14.70	14.70	
CA 2A-14A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B14	10	5330	763										14.63	14.70	
CA 2A-2A-15A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B15	10	5430	775										14.63	14.70	
CA 2A-15A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B15	10	5430	775										14.70	14.70	
CA 2A-15A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B15	10	5430	775										14.63	14.70	
CA 2A-2A-16A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B16	10	5530	785										14.63	14.70	
CA 2A-16A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B16	10	5530	785										14.70	14.70	
CA 2A-16A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B16	10	5530	785										14.63	14.70	
CA 2A-2A-17A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B17	10	5630	795										14.63	14.70	
CA 2A-17A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B17	10	5630	795										14.70	14.70	
CA 2A-17A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B17	10	5630	795										14.63	14.70	
CA 2A-2A-18A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B18	10	5730	805										14.63	14.70	
CA 2A-18A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B18	10	5730	805										14.70	14.70	
CA 2A-18A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B18	10	5730	805										14.63	14.70	
CA 2A-2A-19A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B19	10	5830	815										14.63	14.70	
CA 2A-19A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B19	10	5830	815										14.70	14.70	
CA 2A-19A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B19	10	5830	815										14.63	14.70	
CA 2A-2A-20A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B20	10	5930	825										14.63	14.70	
CA 2A-20A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B20	10	5930	825										14.70	14.70	
CA 2A-20A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B20	10	5930	825										14.63	14.70	
CA 2A-2A-21A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B21	10	6030	835										14.63	14.70	
CA 2A-21A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B21	10	6030	835										14.70	14.70	
CA 2A-21A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B21	10	6030	835										14.63	14.70	
CA 2A-2A-22A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B22	10	6130	845										14.63	14.70	
CA 2A-22A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B22	10	6130	845										14.70	14.70	
CA 2A-22A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B22	10	6130	845										14.63	14.70	
CA 2A-2A-23A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B23	10	6230	855										14.63	14.70	
CA 2A-23A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B23	10	6230	855										14.70	14.70	
CA 2A-23A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B23	10	6230	855										14.63	14.70	
CA 2A-2A-24A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B24	10	6330	865										14.63	14.70	
CA 2A-24A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B24	10	6330	865										14.70	14.70	
CA 2A-24A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B24	10	6330	865										14.63	14.70	
CA 2A-2A-25A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B25	10	6430	875										14.63	14.70	
CA 2A-25A-66A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120		LTE B66	20	67336	2190	LTE B25	10	6430	875										14.70	14.70	
CA 2A-25A-66A	LTE B66	20	132072	1720	16QAM	1	99	66536	2120																					

Reduced Output Powers – Ant 2B

Combination	PCB Band	PCB BW [MHz]	CC [MHz]	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power [dBm]	LTE Tx Power [dBm]	LTE Single Carrier Tx Power [dBm]			
				CC (U) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (D) Channel	PCC (D) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (D) Channel	SCC (D) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (D) Channel	SCC (D) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (D) Channel	SCC (D) Freq. [MHz]	SCC Band	SCC BW [MHz]				SCC (D) Channel	SCC (D) Freq. [MHz]	
CA 2A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B7	20	9100	2155															14.26	14.30
CA 2A-66A(1)	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B12	20	5095	727.5															14.26	14.30
CA 2A-66A(1)	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B12	20	5095	727.5															14.26	14.30
CA 2A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 46A-46A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180											14.26	14.30
CA 46A-46A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180											14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	14.26	14.30
CA 2A-66A-66A	LTE B86	20	13027	1720	16QAM	1	99	66536	2120	LTE B86	20	900	1960	1960	2120	LTE B2	20	900	1960	1960	2120	LTE B2	20						

Table 19
Reduced Output Powers – Ant 4A

[illegible]

FCC ID: BCGA1934



SAR EVALUATION REPORT

Reviewed by:

Quality Manager

Test Dates:

DUT Type:

1C1806220015-01.BCG

Tablet Device

APPENDIX H.

Page 8 of 37

Table 20
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC 2				SCC 3				SCC 4				Power							
			PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]				
CA 2A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960													14.50	14.50				
CA 7A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B7	20	3100	2655													14.50	14.50				
CA 12A-66A (1)	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B12	10	5095	737.5													14.49	14.50				
CA 12A-66A (2)	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B12	10	5095	737.5													14.50	14.50				
CA 2C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	702	1940.2									14.50	14.50				
CA 2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5									14.49	14.50				
CA 13A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B13	10	5230	751	LTE B46	20	50665	5537.5									14.48	14.50				
CA 29A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B29	20	67236	2190	LTE B29	20	9715	722.5									14.46	14.50				
CA 46A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B46	20	50665	5537.5	LTE B46	20	47070	5180									14.46	14.50				
CA 8A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B8	20	67236	2190	LTE B46	20	50665	5537.5									14.50	14.50				
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B8	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	14.45	14.50				
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	900	1960	LTE B12	10	5095	737.5					14.43	14.50				
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5					14.44	14.50				
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5					14.50	14.50				
CA 2A-2A-66C-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B8	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5					14.46	14.50				
CA 2A-13A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B13	10	5230	751					14.33	14.50				
CA 2A-13A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B13	10	5230	751					14.50	14.50				
CA 2A-13A-66C	LTE B66	15	132222	1745	16QAM	1	0	66786	2145	LTE B66	5	66693	2135.7	LTE B66	20	67236	2190	LTE B5	10	2525	881.5					14.43	14.50				
CA 2A-13A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	LTE B13	10	5230	751					14.43	14.50				
CA 2A-2A-14A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763					14.42	14.50				
CA 2A-14A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763					14.35	14.50				
CA 2A-2A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8620	2355					14.48	14.50				
CA 2A-30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5					14.45	14.50				
CA 2A-5A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8620	2355					14.42	14.50				
CA 2A-13A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8620	2355					14.42	14.50				
CA 2A-14A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	8620	2355					14.41	14.50				
CA 2A-29A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B2	20	900	1960	LTE B29	20	9715	722.5	LTE B30	10	8620	2355					14.46	14.50				
CA 5A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B66	20	66734	2139.8	LTE B5	10	2525	881.5					14.45	14.50				
CA 5A-66A-66B	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	5	67188	2183.2	LTE B66	15	67261	2192.5	LTE B5	10	2525	881.5					14.48	14.50				
CA 5A-66A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	LTE B5	10	2525	881.5					14.44	14.50				
CA 5A-30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	8620	2355					14.47	14.50				
CA 12A-30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	8620	2355					14.41	14.50				
CA 13A-66A-66B	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	5	67188	2183.2	LTE B66	15	67261	2192.5	LTE B13	10	5230	751					14.50	14.50				
CA 13A-66C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	LTE B13	10	5230	751					14.40	14.50				
CA 13A-66C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5					14.50	14.50				
CA 14A-30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B14	10	5330	763	LTE B30	10	8620	2355					14.45	14.50				
CA 46A-66C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5					14.48	14.50				
CA 46C-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5					14.44	14.50				
CA 5A-66C-66A	LTE B66	15	132222	1745	16QAM	1	0	66786	2145	LTE B66	5	66693	2135.7	LTE B66	20	67236	2190	LTE B5	10	2525	881.5					14.46	14.50				
CA 5A-66C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B66	20	67236	2190	LTE B5	10	2525	881.5					14.50	14.50				
CA 13A-66C-66A	LTE B66	15	132222	1745	16QAM	1	0	66786	2145	LTE B66	5	66693	2135.7	LTE B66	20	67236	2190	LTE B13	10	5230	751					14.44	14.50				
CA 13A-66C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B66	20	67236	2190	LTE B13	10	5230	751					14.41	14.50				
CA 2A-2A-66A-66B	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	LTE B12	10	5095	737.5	LTE B2	20	700	1940	LTE B2	20	700	1940	14.36	14.50
CA 2A-2A-66A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	LTE B2	20	700	1940	LTE B2	20	700	1940	LTE B2	20	700	1940	14.34	14.50
CA 2A-2A-5A-66B	LTE B66	15	132222	1745	16QAM	1	0	66786	2145	LTE B66	5	66693	2135.7	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	14.21	14.50				
CA 2A-2A-5A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	14.17	14.50				
CA 2A-5B-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	14.35	14.50				
CA 2A-5B-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3						

1.3.9 LTE Band 2 as PCC

Table 21
Reduced Output Powers – Ant 2A

Combination	PCB Band	PC1										SC1										SC2										SC3										SC4										Power	
		PCB BW [MHz]	PC1 (U) Ch	PC1 (L) Freq. [MHz]	Mod.	PC1 U/L RB	PC1 U/L Offset	PC1 (D) Channel	PC1 (D) Freq. [MHz]	SC Band	SC BW [MHz]	SC (D) Channel	SC (D) Freq. [MHz]	SC Band	SC BW [MHz]	SC (D) Channel	SC (D) Freq. [MHz]	SC Band	SC BW [MHz]	SC (D) Channel	SC (D) Freq. [MHz]	SC Band	SC BW [MHz]	SC (D) Channel	SC (D) Freq. [MHz]	SC Band	SC BW [MHz]	SC (D) Channel	SC (D) Freq. [MHz]	SC Band	SC BW [MHz]	SC (D) Channel	SC (D) Freq. [MHz]	LTE Tx Power with CA (dBm)	LTE Single Carrier Tx Power (dBm)																		
CA 2A-4A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	21575	2132.5																				34.00																				
CA 2A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B12	10	5095	737.5																				13.00	14.00																			
CA 2A-20A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B12	10	5095	737.5																				13.00	14.00																			
CA 2A-12A	LTE B2	20	18925	1882.5	QPSK	1	49	600	1995	LTE B29	10	9715	722.5																				13.00	13.00																			
CA 2A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B6B	20	66786	2145																				13.00	13.00																			
CA 2A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	227	1942.7	LTE B5	10	2525	881.5																13.00	13.00																			
CA 2A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	227	1942.7	LTE B12	10	5095	737.5																13.00	13.00																			
CA 2A-20A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	227	1942.7	LTE B29	10	9715	722.5																13.00	14.00																			
CA 2A-30A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	227	1942.7	LTE B30	10	9820	2355																13.00	14.00																			
CA 2A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	700	1940	LTE B12	10	5095	5337.5																13.00	13.00																			
CA 2A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4B	20	50665	5337.5	LTE B4B	20	42000	5180																13.00	14.00																			
CA 2A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	700	1940	LTE B5	10	2525	881.5																13.00	13.00																			
CA 2A-4A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B13	10	5230	751																13.00	14.00																			
CA 2A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B13	10	5230	751	LTE B4B	20	50665	5337.5																14.00	14.00																			
CA 2A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4B	20	50665	5337.5	LTE B4B	20	50665	5337.5																14.00	14.00																			
CA 2A-2A-4A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	700	1940	LTE B4	20	2375	2132.5	LTE B4	20	2350	2150												13.00	14.00																			
CA 2A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	700	1940	LTE B4B	20	50965	737.5	LTE B12	5	5047	732.7												13.00	14.00																			
CA 2A-6A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	700	1940	LTE B4B	20	50965	5337.5	LTE B4B	20	50467	5327.7												13.00	14.00																			
CA 2A-6A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4B	20	50665	5337.5	LTE B4B	20	50467	5327.7	LTE B4B	20	50467	5327.7												13.00	14.00																			
CA 2A-6A-6A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B2	20	700	1940	LTE B4B	20	66786	2145	LTE B4B	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B6	20	66786	2145	LTE B6	20	67236	2150												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1982.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5												13.00	14.00																			
CA 2A-4A-5A	LTE B2	20	18925	1882.5	QPSK	1	0																																														

Table 22
Reduced Output Powers – Ant 2B

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC BW [MHz]	PCC [UL] Ch	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power [dBm]		LTE Single Carrier Power [dBm]	
CA 2A-6A	LTE B2	1.4	19183	1900.3	QAM64	1	0	1193	1989.3	LTE B4	20	2175	2123.5	-	-	-	-	-	-	-	-	-	-	-	-	-	13.70	-	
CA 2A-12A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	13.70	13.68	
CA 2A-24A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	13.70	13.68	
CA 2A-24A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	13.70	13.68	
CA 2A-6A	LTE B2	1.4	19183	1900.3	QAM64	1	0	1193	1989.3	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.70	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B2	20	754	1945.4	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	13.69	13.68
CA 2A-24A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B2	20	754	1945.4	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	13.69	13.68
CA 2A-24A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B2	20	754	1945.4	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	13.69	13.68
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	13.69	13.68	
CA 2A-6A	LTE B2	15	18925	1882.5	QPSK	1	0	925	1962.5	LTE B6	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-				

FCC ID: BCGA1934



PCTEST
ENGINEERING LABORATORY, INC.

SAR EVALUATION REPORT

Reviewed by:

Quality Mar

Test Dates:

DUT Type:

APPENDIX H:

Page 10 of

Reduced Output Powers – Ant 4A

[illegible]

Reduced Output Powers – Ant 4B

Combination	PCB Band	PCC BW [MHz]	PCC [DU] Freq. [MHz]	PCC Mod.	PCC UL RB	PCC UL RB Offset	PCC [DU] Channel	SSC 1			SSC 2			SSC 3			SSC 4			LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
								PCC [DU] SSB Band	SSC 1 [DU] Channel	SSC 1 [DU] Freq. [MHz]	SSC 2 [DU] Channel	SSC 2 [DU] Freq. [MHz]	SSC 3 [DU] Channel	SSC 3 [DU] Freq. [MHz]	SSC 4 [DU] Channel	SSC 4 [DU] Freq. [MHz]						
CA 2A-30A	LTE B2	20	18700	186Q	64QAM	1	790	1940	186Q	20	715	2193.5	-	-	-	-	-	-	14.3	14.20		
CA 2A-12A	LTE B2	20	18700	186Q	64QAM	1	790	1940	186Q	12	5095	727.5	-	-	-	-	-	-	14.20	14.20		
CA 2A-17A	LTE B2	20	18650	1855	QPSK	1	0	650	1835	186Q	10	5790	740	-	-	-	-	-	14.20	14.20		
CA 2A-20A	LTE B2	20	18650	1855	QPSK	1	0	650	1835	1855	QPSK	10	720.5	-	-	-	-	-	14.20	14.20		
CA 2A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	20	66736	2145	-	-	-	-	-	-	14.06	14.20		
CA 2A-5A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	898	1599.8	176 B5	20	2535	881.5	-	-	14.16	14.20		
CA 2A-12A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	5095	727.5	176 B4	20	2535	881.5	-	-	14.16	14.20		
CA 2A-20A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	898	1599.8	176 B2	10	9715	722.5	-	-	14.20	14.20		
CA 2A-30A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	898	1599.8	176 B0	10	9720	725.5	-	-	14.15	14.20		
CA 2A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	5095	727.5	176 B4	20	2535	881.5	-	-	14.15	14.20		
CA 2A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	50665	5537.5	176 B4	20	47090	6180	-	-	14.13	14.20		
CA 2A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	898	1599.8	176 B4	20	47090	6180	-	-	14.19	14.20		
CA 2A-6A-13A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	21175	2122.5	176 B3	10	751	147.5	-	-	14.16	14.20		
CA 2A-13A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	-	-	14.14	14.20		
CA 2A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	50665	5537.5	176 B4	20	66736	2145	-	-	14.17	14.20		
CA 2A-2A-4A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	21175	2122.5	176 B4	20	21175	2122.5	176 B4	20	2535	881.5	14.17	14.20
CA 2A-12A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	5095	727.5	176 B2	5	5047	732.7	14.10	14.20
CA 2A-2A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	50965	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	50665	5537.5	176 B4	20	66736	2145	-	-	14.08	14.20		
CA 2A-6A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	66736	2145	176 B6	20	67326	2190		14.20
CA 2A-6A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	66736	2145	176 B6	20	67326	2190		14.20
CA 2A-6A-13A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	66736	2145	176 B6	20	67326	2190		14.20
CA 2A-13A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	66736	2145	176 B6	20	67326	2190		14.20
CA 2A-6A-13A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	12	1100	1980	186Q	12	66736	2145	176 B6	20	67326	2190		14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20	50665	5537.5	176 B4	20	5047	5537.7	14.12	14.20
CA 2A-13A-6A-6A	LTE B2	20	18700	1860	64QAM	1	790	1940	186Q	13	5230	751	176 B4	20								

FCC ID: BCGA1934

Test Dates:

1C1806220015-01.BCG



SAR EVALUATION REPORT

DUT Type	
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Tablet Device

Reviewed by:

Quality Manager

APPENDIX H

Page 11 of 37

REV 20.05 M

11/15/2017

1.3.10 LTE Band 25 as PCC

Table 25
Reduced Output Powers – Ant 2A

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5A-25A	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	LTE B5	10	2525	881.5	-	-	-	-	13.99	14.00
CA_25A-26A	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	LTE B26	10	8865	876.5	-	-	-	-	14.00	14.00
CA_25A-25A-26A	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	LTE B25	20	8140	1940	LTE B26	5	8865	876.5	13.94	14.00

Table 26
Reduced Output Powers – Ant 2B

Combination	PCC								SCC 1				SCC 2				Power		
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5A-25A	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	LTE B5	10	2525	881.5	-	-	-	-	13.68	13.68
CA_25A-26A	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	LTE B26	10	8865	876.5	-	-	-	-	13.70	13.68
CA_25A-25A-26A	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	LTE B25	20	8140	1940	LTE B26	5	8865	876.5	13.35	13.68

Table 27
Reduced Output Powers – Ant 4A

	PCC									SCC 1				SCC 2				Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5A-25A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	LTE B5	10	2525	881.5	-	-	-	-	15.18	15.30
CA_25A-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	LTE B26	10	8865	876.5	-	-	-	-	15.29	15.30
CA_25A-25A-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	LTE B25	20	8590	1985	LTE B26	5	8865	876.5	15.26	15.30

Table 28
Reduced Output Powers – Ant 4B

	PCC									SCC 1				SCC 2				Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5A-25A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B5	10	2525	881.5	-	-	-	-	14.13	14.20
CA_25A-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B26	10	8865	876.5	-	-	-	-	14.11	14.20
CA_25A-25A-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	LTE B25	20	8590	1985	LTE B26	5	8865	876.5	14.13	14.20

1.3.11 LTE Band 30 as PCC

Table 29
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				Power				
				Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA_2C-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	12.96	12.96	
CA_2A-2A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	12.45	12.60
CA_2A-2A-12A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	797.5	-	12.48	12.60
CA_2A-2A-29A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	8715	722.5	-	12.45	12.60
CA_2A-2A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	12.43	12.60
CA_2A-4A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	12.41	12.60
CA_2A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5095	797.5	-	12.45	12.60
CA_2A-4A-29A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B29	10	8715	722.5	-	12.44	12.60
CA_2A-5A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	12.41	12.60
CA_2A-12A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	797.5	LTE B66	20	66786	2145	-	12.45	12.60
CA_2A-14A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	12.45	12.60
CA_2A-29A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B29	10	8715	722.5	LTE B66	20	66786	2145	-	12.44	12.60
CA_4A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	-	12.41	12.60
CA_4A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B4	20	2175	2132.5	LTE B12	10	5095	797.5	LTE B66	20	66786	2145	-	12.43	12.60
CA_4A-4A-29A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B4	20	2175	2132.5	LTE B29	10	8715	722.5	LTE B66	20	66786	2145	-	12.41	12.60
CA_5A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	12.41	12.60
CA_12A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B12	10	5095	797.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	12.45	12.60
CA_14A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	12.42	12.60
CA_2A-5B-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	-	12.51	12.60
CA_5B-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	-	12.53	12.60

Table 30
Reduced Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power			
				Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA_2C-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940	-	-	-	-	-	-	-	-	12.96	12.99
CA_2A-2A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	12.84	12.90
CA_2A-2A-12A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	797.5	-	-	-	-	12.90	12.90
CA_2A-2A-29A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	8715	722.5	-	-	-	-	12.90	12.90
CA_2A-2A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	12.85	12.90
CA_2A-4A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	12.80	12.90
CA_2A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5095	797.5	-	-	-	-	12.85	12.90
CA_2A-4A-29A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B29	10	8715	722.5	-	-	-	-	12.84	12.90
CA_2A-5A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.89	12.90
CA_2A-12A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	797.5	LTE B66	20	66786	2145	-	-	-	-	12.85	12.90
CA_2A-14A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	-	-	12.88	12.90
CA_2A-29A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B29	10	8715	722.5	LTE B66	20	66786	2145	-	-	-	-	12.80	12.90
CA_4A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.89	12.90
CA_4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B12	10	5095	797.5	-	-	-	-	12.80	12.90
CA_12A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.80	12.90
CA_12A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.89	12.90
CA_28-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	12.90	12.90
CA_30-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	LTE B12	10	5095	797.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	12.89	12.90

Combination	PCB Band	PCB BW [MHz]	PCC				SSC 1				SSC 2				SSC 3				SSC 4				Power	
			PCC [UL] Ch	PCC [UL] Freq [MHz]	OpK	PCB UL RB Offset	PCC [DL] Channel	PCC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq [MHz]	LTE Tx Power (dBm)	LTE Single Carrier Tx Power (%)
CA 2C-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E82	20	700	1560	31.66	-	-	-	31.66	-	-
CA 2A-2A-5A-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E82	20	700	1560	31.62	-	-	-	31.62	-	-
CA 2A-2A-22A-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E82	20	700	1560	31.65	-	-	-	31.65	-	-
CA 2A-2A-22A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E82	20	700	1560	31.65	-	-	-	31.65	-	-
CA 2A-2A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E82	20	700	1560	31.65	-	-	-	31.65	-	-
CA 2A-4A-5A-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-4A-5A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-4A-29A-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-4A-29A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-12A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-12A-30A-66A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-14A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-29A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 4A-4A-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E84	20	2175	2132.5	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 4A-4A-32A-30A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E84	20	2175	2132.5	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 4A-30A-66A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 12A-30A-66A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 14A-30A-66A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-2A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E82	20	900	1560	LTE E84	20	2175	2132.5	31.78	-	-	-	31.78	-	-
CA 2A-30A-66A	LTE E830	10	27710	2310	OpK1	1	49	9820	2350	LTE E84	20	2175	881.5	LTE E84	5	2463.3	884.3	31.78	-	-	-	66.286	2146	31.78

Combination	PCB Band	PCC					SSC 1				SSC 2				SSC 3				SSC 4				Power			
		PCC BW [MHz]	PCC [LH] Ch	PCC [LH] Freq [MHz]	Mod.	PCC ULH RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq [MHz]	LTE Tx Power with DC-Ctx Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 1C-30A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE 82	20	700	1540	1560	1	49	9820	2350	1560	1	11.8	13.0
CA 2A-2A-5A-30A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE 82	20	700	1540	LTE B15	10	7225	581.5	-	-	11.0	13.0	
CA 2A-2A-32A-30A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE 82	20	700	1540	LTE B12	10	5095	777.5	-	-	10.0	13.0	
CA 2A-2A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE 82	20	700	1540	LTE B12	10	5095	777.5	-	-	11.0	13.0	
CA 2A-4A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE 82	20	700	1540	LTE B66	20	66786	2145	-	-	11.8	13.0	
CA 2A-4A-5A-30A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE 82	20	700	1540	LTE B66	20	66786	2145	-	-	11.8	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.0	13.0	
CA 2A-4A-5A-30A-66A	LTE 830	10	27710	2310	QPSK	1	49	9820	2350	LTE 82	20	900	1560	LTE B4	20	21275	21125	LTE B8	10	2525	881.5	-	-	10.		

Combination	PCC Band	PCC						SCC 1				SCC 2				SCC 3				LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
		PCC BW [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]						
CA 5A-7A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B5	10	2525	881.5	-	-	-	-	-	-	11.95	12.00		
CA 7B	LTE B7	15	21375	2642.5	QPSK	1	36	3375	2682.5	LTE B7	5	3282	2673.2	-	-	-	-	-	-	11.95	11.99		
CA 7C (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3352	2660.0	-	-	-	-	-	-	11.90	12.00		
CA 7A-46A (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B46	20	50665	5537.5	-	-	-	-	-	-	12.00	12.00		
CA 7A-66A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B66	20	66786	2145	-	-	-	-	-	-	12.00	12.00		
CA 4A-4A-7A (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	11.99	12.00	
CA 4A-7A-7A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2850	2630	LTE B4	20	2175	2132.5	-	-	-	11.96	12.00	
CA 4A-7A-3A (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B4	20	2175	2132.5	LTE B12	20	2095	2132.5	-	-	-	11.99	12.00	
CA 7A-6C (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.7	-	-	-	11.97	12.00	
CA 7A-46D (1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.7	LTE B46	20	50683	5557.3	11.96	12.00

Combination	PCC										SSC 1				SSC 2				SSC 3				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enable (dBm)	LTE Single Carrier Tx Power (dBm)		
CA_5A-7A	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B8	10	252S	881.5	-	-	-	-	-	-	-	12.30	12.29		
CA_7B	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B7	5	900T	2645.7	-	-	-	-	-	-	-	12.26	12.26		
CA_7C(1)	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B7	20	292S	2637.8	-	-	-	-	-	-	-	12.30	12.29		
CA_7A-46A(1)	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B46	20	5066S	5537.5	-	-	-	-	-	-	-	12.30	12.29		
CA_7A-66A	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B66	20	66786	2145	-	-	-	-	-	-	-	12.25	12.29		
CA_4A-4A-7A(1)	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B4	20	217S	2132S	LTE B4	10	235S	2150	-	-	-	-	12.30	12.29	
CA_4A-7A	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B7	20	285S	2630	LTE B4	20	217S	2132.5	-	-	-	-	12.20	12.29	
CA_4A-7A-5A(1)	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B4	20	217S	2132.5	LTE B3	10	509S	5537.8	-	-	-	-	12.15	12.29	
CA_7A-46C(1)	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B46	20	5066S	5537.5	LTE B46	20	5066T	5537.7	-	-	-	-	12.25	12.29	
CA_7A-46D(1)	LTE B7	15	21100	253S	6AQAM	1	0	3100	265S	LTE B46	20	5066T	5537.7	LTE B46	20	5066T	5537.7	-	-	-	-	12.24	12.29	

Combination	PCC Band	PCC						SCC 1				SCC 2				SCC 3				Power			
		PCC BW [MHz]	PCC [UL] Ch. Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enable (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 5A-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B5	10	2525	2881.5	-	-	-	-	-	-	-	12.00	12.00	
CA 7A	LTE B7	15	20850	2507.5	QPSK	36	37	2825	2627.5	LTE B7	5	2918	2636.8	-	-	-	-	-	-	-	11.98	12.00	
CA 7A-7C (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	2068	2648.8	-	-	-	-	-	-	-	12.00	12.00	
CA 7A-46A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	11.90	12.00	
CA 7A-66A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B66	20	66786	2145	-	-	-	-	-	-	-	11.95	12.00	
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B4	20	2175	2162.5	LTE B4	10	2350	2150	-	-	-	-	11.99	12.00
CA 4A-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3350	2630	LTE B4	20	2175	2132.5	-	-	-	-	11.96	12.00
CA 4A-7A-32A (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B4	20	2175	2132.5	LTE B32	20	5069	5537.5	-	-	-	-	11.90	12.00
CA 7A-84C (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	-	-	-	-	12.00	12.00
CA 7A-46D (1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	LTE B46	20	50683	5557.3	12.00	12.00

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 13 of 37

Table 36
Reduced Output Powers – Ant 4B

Combination	PCC										SCC 1				SCC 2				SCC 3				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 5A-7A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B5	10	2525	2881.5	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7B	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B7	5	3282	2673.2	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7C (1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B7	20	2850	2630	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7A-66A (1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B46	20	50605	5537.5	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7A-66A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	12.00	12.00	
CA 4A-4A-7A (1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B4	20	2175	2152.5	LTE B4	10	2350	2150	-	-	-	-	11.99	12.00	
CA 4A-7A-7A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B7	20	2850	2630	LTE B4	20	2175	2152.5	-	-	-	-	11.98	12.00	
CA 4A-7A-12A (1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B4	20	2175	2152.5	LTE B12	10	5095	737.5	-	-	-	-	11.98	12.00	
CA 7A-66C (1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B46	20	50605	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	12.00	12.00	
CA 7A-46D (1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	LTE B46	20	50605	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	12.00	12.00	

1.3.13 LTE Band 41 as PCC

Table 37
Reduced Output Powers – Ant 2A

	PCC Band	PCC BW [MHz]	PCC				SCC 1				SCC Band	SCC 2				SCC Band	SCC 3				SCC Band	SCC 4				LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
			PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]			
CA 41A-41A (1)	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	39750	2506	-	-	-	-	-	-	-	-	-	-	-	-	14.79	14.80
CA 41A-41C	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	14.79	14.80
CA 41C-41A	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	40818	2612.8	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	14.80	14.80
CA 41A-41D	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	14.80	14.80
CA 41C-41C	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	14.79	14.80
CA 41E	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	LTE B41	20	41016	2632.6	-	-	-	-	14.80	14.80
CA 41D-41A	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	LTE B41	20	41400	2680	-	-	-	-	14.80	14.80
CA 41C-41D	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.71	14.80
CA 41D-41C	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	LTE B41	20	40422	2573.2	LTE B41	20	40818	2612.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.69	14.80

Table 38
Reduced Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC							SCC 1				SCC 2				SCC 3				SCC 4				Power		
			PCC [UL] Ch	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA	LTE Single Carrier Tx Power [dBm]	
CA 41A-41A (1)	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	14.50	14.49
CA 41A-41C	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	14.50	14.49
CA 41C-41A	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	14.50	14.49
CA 41A-41D	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	14.50	14.49
CA 41C-41C	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	14.49	14.50
CA 41E	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	40519	2542.9	LTE B41	20	40317	2562.7	-	-	-	-	-	14.46	14.50
CA 41D-41A	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	40519	2542.9	LTE B41	20	41490	2680	-	-	-	-	-	14.48	14.49
CA 41C-41D	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.44	14.49	
CA 41D-41C	LTE B41	15	39750	2506	QPSK	1	74	39750	2506	LTE B41	20	39921	2523.1	LTE B41	20	40519	2542.9	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.42	14.49	

Table 39
Reduced Output Powers – Ant 4A

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 41A-41A (1)	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	41490	2680													14.43	14.50	
CA 41A-41C	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680									14.50	14.50	
CA 41C-41A	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680					14.50	14.50	
CA 41A-41D	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680					14.50	14.50	
CA 41C-41C	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680					14.50	14.50	
CA 41E	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	40779	2608.9					14.50	14.50	
CA 41D-41A	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	41490	2680					14.50	14.50	
CA 41C-41D	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.48	14.50	
CA 41D-41C	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680					14.43	14.50	

Table 40
Reduced Output Powers – Ant 4B

	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power			
				PCC [DL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41A-41A (1)	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	14.98	14.97
CA 41A-41C	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	14.99	14.97
CA 41C-41A	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	14.99	14.97
CA 41A-41D	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	14.99	14.97
CA 41C-41C	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	14.98	14.97
CA 41E	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	40779	2608.9	-	-	-	-	14.93	14.97
CA 41D-41A	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	41490	2680	14.90	14.97
CA 41D-41D	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.90	14.97
CA 41D-41D (2)	LTE B41	20	40185	2549.5	16QAM	1	0	40185	2549.5	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.93	14.97

1.3.14 LTE Band 41 PC2 as PCC

Table 41
Reduced Output Powers – Ant 2A

Combination	PCC					SCC 1				SCC 2				SCC 3				SCC 4				Power					
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41A-41A (I)	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	39750	2506													14.80	
CA 41A-41C	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680									14.74	14.80
CA 41C-41A	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	39750	2506									14.71	14.80
CA 41A-41D	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					14.74	14.80
CA 41C-41C	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	40822	2573.2	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					14.73	14.80
CA 41E	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	41016	2632.6					14.75	14.80
CA 41D-41A	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	41016	2632.6					14.75	14.80
CA 41C-41D	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	41016	2632.6					14.80	14.80
CA 41D-41C	LTE B41 PC2	20	40620	2593	QPSK	1	99	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	41016	2632.6					14.80	14.80

Table 42
Reduced Output Powers – Ant 2B

Combination	PCC					SCC 1				SCC 2				SCC 3				SCC 4				Power					
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41A-41A (I)	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	LTE B41 PC2	20	41490	2680													14.48	14.50
CA 41A-41C	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680									14.44	14.50
CA 41C-41A	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	39921	2523.1	LTE B41 PC2	20	41490	2680											14.48	14.50
CA 41A-41D	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					14.50	14.50
CA 41C-41C	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					14.48	14.50
CA 41E	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7							14.50	14.50
CA 41D-41A	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7							14.47	14.50
CA 41C-41D	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7							14.38	14.50
CA 41D-41C	LTE B41 PC2	15	39750	2506	QPSK	1	74	39750	2506	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7							14.37	14.50

Table 43
Reduced Output Powers – Ant 4A

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 41A-41A (I)	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	41490	2680														14.80	14.50
CA 41A-41C	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680										14.46	14.50
CA 41C-41A	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41490	2680										14.46	14.50
CA 41A-41D	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680						14.49	14.50
CA 41C-41C	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680						14.46	14.50
CA 41E	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4						14.46	14.50
CA 41D-41A	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4						14.39	14.50
CA 41C-41D	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4						14.46	14.50
CA 41D-41C	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4						14.40	14.50

Table 44
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
			PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
CA 41A-41A (I)	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	41490	2680													14.80	14.50			
CA 41A-41C	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680									14.85	14.50			
CA 41C-41A	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39867	2517.7	LTE B41 PC2	20	41490	2680									14.51	14.50			
CA 41A-41D	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					14.50	14.50			
CA 41C-41C	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39867	2517.7	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					14.50	14.50			
CA 41E	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	40383	2569.3	LTE B41 PC2	20	40581	2589.1	LTE B41 PC2	20	40779	2608.9					14.50	14.50			
CA 41D-41A	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	40383	2569.3	LTE B41 PC2	20	40581	2589.1	LTE B41 PC2	20	40779	2608.9					14.50	14.50			
CA 41C-41D	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	40383	2569.3	LTE B41 PC2	20	40581	2589.1	LTE B41 PC2	20	40779	2608.9					14.80	14.50			
CA 41D-41C	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	40383	2569.3	LTE B41 PC2	20	40581	2589.1	LTE B41 PC2	20	40779	2608.9					14.50	14.50			

1.4 DL CA with DL 4x4 MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 1.2 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 15 of 37

1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 45
Reduced Output Powers – Ant 2A

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Target Power [dBm]
4	20	20050	1720	64QAM	1	99	14.68	14.70	14.7
66	20	132072	1720	64QAM	1	99	14.66	14.70	14.7
2	20	18925	1882.5	QPSK	1	0	13.99	14.00	14.0
25	20	26365	1882.5	QPSK	1	0	13.94	14.00	14.0
7	20	21350	2560	QPSK	1	0	11.91	12.00	12.0
30	10	27710	2310	QPSK	1	49	12.57	12.60	12.6
41	20	40620	2593	QPSK	1	99	14.79	14.80	14.8
41 PC2	20	40620	2593	QPSK	1	99	14.77	14.80	14.8

Table 46
Reduced Output Powers – Ant 2B

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Maximum Allowed Power [dBm]
4	20	20050	1720	16QAM	1	99	14.26	14.30	14.3
66	20	132072	1720	16QAM	1	99	14.27	14.30	14.3
2	1.4	19193	1909.3	64QAM	1	0	13.66	13.70	13.7
25	1.4	26683	1914.3	64QAM	1	0	13.67	13.70	13.7
7	15	21100	2535	64QAM	1	0	12.26	12.29	12.3
30	10	27710	2310	QPSK	1	49	12.88	12.90	13.4
41	15	39750	2506	QPSK	1	74	14.46	14.49	14.5
41 PC2	15	39750	2506	QPSK	1	74	14.48	14.50	14.5

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 16 of 37

Table 47
Reduced Output Powers – Ant 4A

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Maximum Allowed Power [dBm]
4	20	20050	1720	QPSK	1	99	14.95	15.00	15.0
66	20	132072	1720	QPSK	1	99	14.97	15.00	15.0
2	20	18700	1860	16QAM	1	0	15.28	15.30	15.3
25	20	26140	1860	16QAM	1	0	15.30	15.30	15.3
7	20	20850	2510	QPSK	1	0	11.99	12.00	12.0
30	10	27710	2310	QPSK	1	49	13.46	13.50	13.5
41	20	40185	2549.5	QPSK	1	50	14.49	14.50	14.5
41 PC2	20	39750	2506	16QAM	1	99	14.50	14.50	14.5

Table 48
Reduced Output Powers – Ant 4B

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Maximum Allowed Power [dBm]
4	20	20050	1720	QPSK	1	0	14.52	14.50	14.75
66	20	132072	1720	QPSK	1	0	14.49	14.50	14.75
2	20	18700	1860	64QAM	1	99	14.18	14.20	14.2
25	20	26140	1860	64QAM	1	99	14.20	14.20	14.2
7	15	21375	2562.5	QPSK	36	37	12.02	12.00	12.3
30	10	27710	2310	QPSK	1	49	13.23	13.20	13.7
41	20	40185	2549.5	16QAM	1	0	14.98	14.97	15.0
41 PC2	5	39750	2506	16QAM	1	0	14.97	14.98	15.0

1.4.2 LTE Band 12 as PCC

Table 49
Reduced Output Powers – Ant 1

[illegible]

FCC ID: BCGA1934	 PCTEST TECHNOLOGICAL LABORATORY, INC.	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 17 of 37	

Table 50
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC					SCC 1					SCC 2					SCC 3					Power		
						PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [2A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	19.95	20.00	
CA [4A]-[2A] (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	19.89	20.00	
CA [4A]-[2A] (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	19.89	20.00	
CA [2A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	19.92	20.00	
CA [2A]-[66A] (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	19.97	20.00	
CA [2A]-[66A] (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	19.97	20.00	
CA [2A]-[2A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	20.00	20.00
CA [2A]-[2A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	-	19.96	20.00
CA [2A]-[4A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	19.97	20.00
CA [2A]-[4A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	19.92	20.00
CA [2A]-[2A]-[30A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	19.98	20.00
CA [2A]-[2A]-[66A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	19.94	20.00
CA [2A]-[2A]-[66A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	19.95	20.00
CA [4A]-[4A]-[2A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	19.93	20.00
CA [4A]-[2A]-[2A] (1)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	19.99	20.00
CA [4A]-[2A]-[2A] (2)	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	19.96	20.00
CA [2A]-[66A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	-	19.95	20.00
CA [2A]-[66A]-[66A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	19.97	20.00
CA [2A]-[30A]-[66A]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	19.99	20.00
CA [2A]-[2A]-[2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B12	10	5107	738.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	19.97	20.00	
CA [2A]-[4A]-[2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B12	10	5107	738.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	19.96	20.00	
CA [2A]-[4A]-[2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B12	10	5107	738.7	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	19.98	20.00	
CA [2A]-[2A]-[66C]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	20.00	20.00	
CA [4A]-[4A]-[2B]	LTE B12	5	23035	701.5	16QAM	1	12	5035	731.5	2x2 MIMO	LTE B12	10	5107	738.7	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	19.95	20.00	

1.4.3 LTE Band 17 as PCC

Table 51
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC										SCC 1				Power	
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A]-[17A]	LTE B17	10	23790	710	QPSK	1	25	5790	740	2x2 MIMO	LTE B2	10	900	1960	4x4 MIMO	19.67	19.70
CA [4A]-[17A]	LTE B17	10	23790	710	QPSK	1	25	5790	740	2x2 MIMO	LTE B4	10	2175	2132.5	4x4 MIMO	19.64	19.70

Table 52
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC										SCC 1				Power	
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A]-[17A]	LTE B17	5	23755	706.5	16QAM	1	12	5755	736.5	2x2 MIMO	LTE B2	10	900	1960	4x4 MIMO	19.95	20.00
CA [4A]-[17A]	LTE B17	5	23755	706.5	16QAM	1	12	5755	736.5	2x2 MIMO	LTE B4	10	2175	2132.5	4x4 MIMO	19.93	20.00

1.4.4 LTE Band 13 as PCC

Table 53
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC										SCC 1				SCC 2				SCC 3				Power				
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [2A]-[2A]-[13A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	21.29	21.30
CA [2A]-[4A]-[13A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	21.30	21.30
CA [2A]-[4A]-[13A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	21.30	21.30
CA [2A]-[13A]-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	21.30	21.30
CA [2A]-[13A]-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	21.29	21.30
CA [2A]-[13A]-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	21.28	21.30
CA [4A]-[4A]-[13A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	21.27	21.30
CA [13A]-[66A]-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	21.26	21.30
CA [13A]-[66B]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	-	21.27	21.30
CA [13A]-[66C]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	-	21.28	21.30
CA [13A]-[4A]-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	21.29	21.30
CA [2A]-[13A]-[66B]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	15	66786	2145	2x2 MIMO	LTE B66	5	66879	2154.3	2x2 MIMO	21.30	21.30	
CA [2A]-[13A]-[66C]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	21.29	21.30	
CA [13A]-[66A]-[66B]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	15	67168	2183.2	2x2 MIMO	LTE B66	15				21.27	21.30	
CA [13A]-[66A]-[66C]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67038	2170.2	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	21.26	21.30	
CA [13A]-[4A]-[66C]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	21.28	21.30	

Table 54
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC										SCC 1				SCC 2				SCC 3				Power			
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA [2A]-2A-13A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	21.27	21.30	
CA [2A]-4A-13A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	21.28	21.30	
CA [2A]-4A-13A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	21.28	21.30	
CA [2A]-13A-46A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	21.29	21.30	
CA [2A]-13A-66A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B6	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	21.29	21.30	
CA [2A]-13A-66A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	21.25	21.30	
CA [2A]-4A-13A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	-	21.21	21.30	
CA [13A]-66A-66A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	LTE B6	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	-	-	21.18	21.30	
CA [13A]-66B	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	15	66786	2145	4x4 MIMO	LTE B6	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	-	-	-	21.25	21.30	
CA [13A]-66C	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	LTE B6	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	-	-	-	21.26	21.30	
CA [13A]-46A-66A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	20	50665	5537.5	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	21.27	21.30	
CA [2A]-13A-66B	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B6	15	66786	2145	2x2 MIMO	LTE B6	5	66879	2154.3	2x2 MIMO	-	-	-	-	21.26	21.30
CA [2A]-13A-66B	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B6	20	66984	2164.8	2x2 MIMO	-	-	-	-	-	-	-	-	21.28	21.30	
CA [13A]-66A-66B	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	LTE B6	15	67168	2183.2	2x2 MIMO	LTE B6	15	67261	2192.5	2x2 MIMO	-	-	-	-	21.24	21.30
CA [13A]-66A-66C	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	LTE B6	20	67038	2170.2	2x2 MIMO	LTE B6	20	67236	2190	2x2 MIMO	-	-	-	-	21.27	21.30
CA [13A]-46C-66A	LTE B13	10	23330	782	QPSK	1	49	5230	751	2x2 MIMO	LTE B6	20	50665	5537.5	2x2 MIMO	LTE B6	20	50467	5517.7	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	-	-	-	-	21.26	21.30

1.4.5 LTE Band 14 as PCC

Table 55
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC					DL Ant. Config.	SCC 1				SCC 2				Power		
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2A]-2A-14A	LTE B14	5	23330	793	16QAM	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	21.23	21.28
CA 2A-14A-[30A]	LTE B14	5	23330	793	16QAM	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	21.25	21.28
CA [2A]-14A-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	21.27	21.28
CA 2A-14A-[66A]	LTE B14	5	23330	793	16QAM	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	21.26	21.28
CA [14A]-66A-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	21.21	21.28
CA [14A]-[30A]-66A	LTE B14	5	23330	793	16QAM	1	0	5330	763	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	21.24	21.28

Table 56
Reduced Output Powers – Ant 3

Reduced Output Power																										
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC Band	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	Power				
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]			SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC BW [MHz]		SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC BW [MHz]	SCC (DL) Ch.		SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA [2A]-2A-14A	LTE B14	10	23330	793	QPSK	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	21.27	21.30				
CA 2A-14A-[30A]	LTE B14	10	23330	793	QPSK	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	21.29	21.30				
CA [2A]-14A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B6	20	66786	2145	2x2 MIMO	21.28	21.30				
CA 2A-14A-[66A]	LTE B14	10	23330	793	QPSK	1	0	5330	763	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	21.30	21.30				
CA [14A]-66A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	2x2 MIMO	LTE B6	20	66786	2145	4x4 MIMO	LTE B6	20	67236	2190	2x2 MIMO	21.23	21.30				
CA [14A]-[30A]-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B6	20	66786	2145	2x2 MIMO	21.29	21.30				

1.4.6 LTE Band 5 as PCC

Table 57
Reduced Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC Band	SCC 1				DL Ant. Config.	SCC Band	SCC 2				DL Ant. Config.	SCC Band	SCC 3				LTE Tx Power with DL CA (dBm)	LTE Single Carrier Tx Power (dBm)			
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]			SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC BW [MHz]			SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC BW [MHz]	SCC (DL) Ch.			SCC (DL) Freq. [MHz]								
CA 5A-[7A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	20.28	20.30			
CA 5A-[25A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	20.24	20.30			
CA 5A-[4A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B4	20	40620	2593	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	20.23	20.30			
CA [2A]-2A-5A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	20.23	20.30		
CA [2C]-5A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	-	-	-	20.26	20.30		
CA [2A]-4A-5A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	20.29	20.30		
CA 2A-[4A]-5A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	20.25	20.30		
CA [2A]-5A-[30A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	-	-	20.26	20.30		
CA [2A]-5A-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	20.27	20.30		
CA 2A-5A-[66A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	20.27	20.30		
CA 2A-5A-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	20.27	20.30		
CA 4A-[2A]-5A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	-	-	20.29	20.30		
CA 5A-[66B]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	15	66879	2154.3	4x4 MIMO	-	-	-	-	-	-	-	-	20.30	20.30		
CA 5A-[66B]-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66879	2154.8	4x4 MIMO	-	-	-	-	-	-	-	-	20.26	20.30		
CA 5A-[66B]-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67215	2159	4x4 MIMO	-	-	-	-	-	-	-	-	20.26	20.30		
CA 5A-[66B]-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	20.27	20.30		
CA [2A]-4A-5B	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	20.25	20.30
CA 2A-[4A]-5B	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	20.30	20.30
CA 2A-5B-[30A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B30	10	9820	2355	4x4 MIMO	20.26	20.30
CA [2A]-5A-66B	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	15	66786	2145	2x2 MIMO	LTE B66	15	66879	2154.3	2x2 MIMO	LTE B66	15	66879	2154.3	2x2 MIMO	20.29	20.30
CA [2A]-5A-66C	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	20.29	20.30
CA [2A]-5B-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	20.28	20.30
CA 2A-5B-[66A]	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	20.29	20.30
CA 2A-5B-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	2375	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	LTE B4	10	2350	2150	2x2 MIMO	20.29	20.30
CA 5B-[66A]-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67326	2190	2x2 MIMO	LTE B66	20	67326	2190	2x2 MIMO	20.29	20.30
CA 5A-[66A]-66B	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	5	67618	2182.3	2x2 MIMO	LTE B66	15	67811	2192.5	2x2 MIMO	LTE B66	15	67811	2192.5	2x2 MIMO	20.30	20.30
CA 5A-[66A]-66B	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67018	2181	2x2 MIMO	LTE B66	20	67315	2190	2x2 MIMO	LTE B66	20	67315	2190	2x2 MIMO	20.30	20.30
CA 5B-[66A]-66A	LTE B5	10	20525	836.5	16QAM	1	49	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	20.29	20.30

Table 58
Reduced Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC										SCC 1					SCC 2					SCC 3					Power	
				Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 5A-[7A]	LTE B5	3	20525	836.5	64QAM	1	7	2525	881.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	21.34	21.39				
CA 5A-[25A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	21.39	21.38				
CA 5A-[43A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B43	20	40620	2593	4x4 MIMO	-	-	-	-	-	-	-	-	-	21.37	21.38				
CA [2A]-2A-5A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	21.33	21.38			
CA [2C]-5A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	21.34	21.38			
CA [2A]-4A-5A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	21.35	21.38			
CA 2A-[4A]-5A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	21.32	21.38			
CA 2A-5A-[30A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	21.37	21.38			
CA [2A]-5A-66A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	21.33	21.38			
CA 2A-5A-[66A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	21.32	21.38			
CA [4A]-4A-5A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	21.36	21.38			
CA 4A-5A-[30A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	21.38	21.38			
CA 5A-[66A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	21.37	21.38			
CA 5A-[66C]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	21.35	21.38			
CA 5A-[66A]-66A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	21.31	21.38			
CA 5A-[30A]-66A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	21.37	21.38			
CA [2A]-4A-5B	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	21.36	21.38			
CA [2A]-4A-5B	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	21.36	21.38			
CA 2A-5B-[30A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	21.31	21.38			
CA [2A]-5A-66B	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	15	66786	2145	2x2 MIMO	LTE B66	5	66879	2154.3	2x2 MIMO	21.35	21.38			
CA [2A]-5A-66C	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	21.35	21.38			
CA [2A]-5B-66A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	21.31	21.38			
CA 2A-5B-[66A]	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	21.32	21.38			
CA [4A]-4A-5B	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	21.38	21.38			
CA 5B-[66A]-66A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	21.39	21.38			
CA 5A-[66A]-66B	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	5	67168	2183.2	2x2 MIMO	LTE B66	15	67261	2192.5	2x2 MIMO	21.38	21.38			
CA 5A-[66A]-66C	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67038	2170.2	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	21.34	21.38			
CA 5B-[30A]-66A	LTE B5	10	20525	836.5	16QAM	1	25	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	21.36	21.38			

1.4.7 LTE Band 26 as PCC

Table 59
Reduced Output Powers – Ant 1

	PCC										SCC 1				SCC 2				Power				
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)	
CA [25A]-26A	LTE B26	10	26740	819	QPSK	1	25	8740	864	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	-	-	-	-	-	-	20.27	20.30
CA [25A]-25A-26A	LTE B26	5	26715	816.5	16QAM	1	24	8715	861.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	20.27	20.28	

Table 60
Reduced Output Powers – Ant 3

	PCC										SCC 1				SCC 2				Power				
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dbm)	LTE Single Carrier Tx Power (dbm)	
CA [25A]-26A	LTE B26	10	26740	819	QPSK	1	25	8740	864	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	-	-	-	-	-	-	21.37	21.40
CA [25A]-25A-26A	LTE B26	5	26715	816.5	64QAM	1	24	8715	861.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	-	21.38	21.39

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device		APPENDIX H: Page 20 of 37

1.4.8 LTE Band 4 as PCC

Table 61
Reduced Output Powers – Ant 2A

SSC1																										SSC2						SSC3						Power	
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC		SSC1		SSC2		SSC3		Power																									
						PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC (DL) Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)																	
CA [2A]-4A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO												14.69	14.70											
CA [2A]-4A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO													14.60	14.70										
CA [4A]-12A (1)	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	10	5095	737.5	2x2 MIMO													14.60	14.70										
CA [4A]-12A (1)	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	10	5095	737.5	2x2 MIMO													14.64	14.70										
CA [4A]-17A	LTE B4	10	20000	1715	64QAM	1	49	2000	2115	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO													14.46	14.68										
CA [4A]-29A	LTE B4	10	20000	1715	64QAM	1	49	2000	2115	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO													14.58	14.68										
CA [4A]-46A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO													14.63	14.70										
CA [2A]-2A-4A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO									14.66	14.70									
CA [2A]-4A-4A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	2300	2145	2x2 MIMO	LTE B46	20	900	1960	2x2 MIMO									14.67	14.70									
CA [2A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO									14.68	14.70									
CA [2A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO									14.70	14.70									
CA [2A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO									14.70	14.70									
CA [2A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO									14.62	14.70									
CA [2A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5095	737.5	2x2 MIMO									14.68	14.70									
CA [2A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO									14.65	14.70									
CA [2A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO									14.66	14.70									
CA [2A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO									14.70	14.70									
CA [2A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO									14.68	14.70									
CA [2A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO									14.68	14.70									
CA [2A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO									14.69	14.70									
CA [2A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO									14.66	14.70									
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO									14.70	14.70									
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO									14.67	14.70									
CA [4A]-4A-7A (1)	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B7	20	3100	2655	2x2 MIMO									14.65	14.70									
CA [4A]-4A-7A (1)	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO									14.67	14.70									
CA [4A]-7A-7A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	LTE B7	20	2850	2680	2x2 MIMO									14.54	14.70									
CA [4A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO									14.68	14.70									
CA [4A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO									14.69	14.70									
CA [4A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO									14.70	14.70									
CA [4A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO									14.63	14.70									
CA [4A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO									14.69	14.70									
CA [4A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO									14.69	14.70									
CA [4A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO									14.68	14.70									
CA [4A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO									14.70	14.70									
CA [4A]-4A-6A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50667	5537.7	2x2 MIMO									14.69	14.70									
CA [4A]-5A-10A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO									14.69	14.70									
CA [4A]-7A-12A (1)	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO									14.56	14.70									
CA [4A]-12A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO									14.70	14.70									
CA [4A]-29A-30A	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO									14.70	14.70									
CA [2A]-4A-5B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO				14.68	14.70									
CA [2A]-4A-12B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO				14.66	14.70									
CA [2A]-4A-12B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5047	732.7	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO				14.69	14.70									
CA [2A]-4A-12B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO				14.70	14.70									
CA [4A]-4A-5B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO				14.70	14.70									
CA [4A]-4A-5B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO				14.69	14.70									
CA [4A]-4A-12B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO				14.69	14.70									
CA [4A]-4A-12B	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO				14.67	14.70									
CA [4A]-4A-6D	LTE B4	20	20500	1720	QPSK	1	99	2050	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50667	5537.7	2x2 MIMO	LTE B46	20	50683	5557.3	2x2 MIMO				14.65	14.70									

Table 62
Reduced Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	SSC 1										SSC 2										SSC 3										Power	
						PCC UL RB	PCC UL OffSet	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)										
CA [2A]-4A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.29	14.30				
CA [2A]-14A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.28	14.30				
CA [2A]-13A (1)	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.29	14.30				
CA [4A]-12A (2)	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.28	14.30				
CA [4A]-17A	LTE B4	20	20000	1715	16QAM	1	40	2000	2115	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.28	14.30				
CA [4A]-29A	LTE B4	20	20000	1715	16QAM	1	40	2000	2115	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.97	14.30				
CA [4A]-30A	LTE B4	20	20000	1715	16QAM	1	40	2000	2115	4x4 MIMO	LTE B30	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.29	14.30				
CA [2A]-24A-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1540	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.28	14.30			
CA 2A-[4A]-4A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.25	14.30			
CA 2A-[4A]-4A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30			
CA [2A]-4A-5A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.30	14.30			
CA 2A-[4A]-5A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA 2A-[4A]-12A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.24	14.30			
CA 2A-[4A]-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30			
CA 2A-[4A]-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA 2A-[4A]-29A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30			
CA 2A-[4A]-30A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA 2A-[4A]-30A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.25	14.30			
CA 2A-[4A]-30A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA [4A]-4A-5A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.24	14.30			
CA [4A]-4A-5A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30			
CA [4A]-4A-12A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.25	14.30			
CA [4A]-4A-12A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA [4A]-4A-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	2300	2145	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA [4A]-4A-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA [4A]-4A-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	4x4 MIMO	LTE B12	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.23	14.30			
CA [4A]-4A-13A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA [4A]-4A-29A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30			
CA [4A]-4A-29A	LTE B4	20	20500	1720	16QAM	1	99	2050	2120	4x4 MIMO	LTE B2	20	900	1960																							

FCC ID: BCGA1934	 PCTEST TECHNOLOGY LABORATORY, INC.	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 21 of 37	

Reduced Output Powers – Ant 4A

SCC 1																				SCC 2										SCC 3										Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with 0dBm (dBm)	LTE Single Carrier Tx Power (dBm)									
CA [2A]-4A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00								
CA [2A]-4A-1	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.93	15.00							
CA [5A]-4A-12A (1)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00							
CA [4A]-12A (2)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.90	15.00							
CA [4A]-17A	LTE B4	10	203000	1745	64QAM	1	49	23000	2145	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	14.98							
CA [4A]-29A	LTE B4	10	203000	1745	64QAM	1	49	23000	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	14.98							
CA [4A]-60A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.92	15.00							
CA [2A]-2A-4A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [2A]-14A-1A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [2A]-14A-5A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00						
CA [2A]-4A-12A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00						
CA [2A]-14A-12A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00						
CA [2A]-4A-5A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00						
CA [2A]-14A-5A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.92	15.00						
CA [2A]-4A-12A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00						
CA [2A]-14A-12A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00						
CA [2A]-4A-5A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00						
CA [2A]-14A-13A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.93	15.00						
CA [2A]-4A-29A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.97	15.00						
CA [2A]-14A-29A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.97	15.00						
CA [2A]-4A-30A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00						
CA [2A]-14A-30A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [2A]-4A-30A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00						
CA [4A]-4A-5A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [4A]-4A-5A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00						
CA [1A]-4A-7A (1)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.90	15.00						
CA [1A]-4A-7A (1)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.90	15.00						
CA [4A]-7A (2)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	LTE B7	20	2850	2650	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00						
CA [4A]-4A-12A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00						
CA [4A]-12A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00						
CA [4A]-4A-13A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00						
CA [4A]-4A-13A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.97	15.00						
CA [4A]-4A-29A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.97	15.00						
CA [4A]-4A-29A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00						
CA [4A]-4A-30A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.95	15.00						
CA [4A]-4A-30A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00						
CA [4A]-4A-60A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [4A]-60A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [4A]-60A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	15.00						
CA [4A]-7A-12A (1)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.90	15.00						
CA [4A]-12A-12A (1)	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.98	15.00						
CA [4A]-29A-30A	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	14.93	15.00						
CA [2A]-4A-5B	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	14.96	15.00														
CA [2A]-4A-5B	LTE B4	20	205050	1720	QPSK	1	99	20500	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	14.96	15.00														
CA [2A]-4A-12																																									

Reduced Output Powers – Ant 4B

														SSC 1										SSC 2										SSC 3										Power	
Combination	PCC Band	PCC BW [MHz]	PCC [UL] CH	PCC [F, Freq. (MHz)]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] CH	PCC [DL] Freq. (MHz)	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] CH	SSC [DL] Freq. (MHz)	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] CH	SSC [DL] Freq. (MHz)	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] CH	SSC [DL] Freq. (MHz)	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] CH	SSC [DL] Freq. (MHz)	DL Ant. Config.	LTE Tx Power With DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)													
CA [2A]-4A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50												
CA [4A]-4A(1)	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50												
CA [4A]-4A(2)	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.51	14.50												
CA [4A]-12A (1)	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.51	14.50												
CA [4A]-29A	LTE B4	5	20300	1745	15QAM	1	0	2300	2145	4x4 MIMO	LTE B17	10	5740	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.51	14.50												
CA [4A]-29A	LTE B4	5	20300	1745	15QAM	1	0	2300	2145	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.52	14.50												
CA [4A]-46A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.48	14.50												
CA [2A]-2A-4A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.57	14.50											
CA [2A]-4A-4A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.50											
CA [2A]-4A(1)-4A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50											
CA [2A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50											
CA [2A]-4A(1)-5A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50											
CA [2A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.52	14.50											
CA [2A]-4A(1)-12A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.52	14.50											
CA [2A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.50											
CA [2A]-4A(1)-13A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [2A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [2A]-4A(1)-29A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50											
CA [2A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.52	14.50											
CA [2A]-4A(1)-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.52	14.50											
CA [2A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.50											
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [4A]-4A-5A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [4A]-4A-7A(1)	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B7	10	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.44	14.50											
CA [4A]-4A-7A(1)	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B7	10	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.44	14.50											
CA [4A]-7A(1)-7A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	LTE B7	20	2850	2630	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.43	14.50											
CA [4A]-4A-12A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50											
CA [4A]-4A(1)-12A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.53	14.50											
CA [4A]-4A-13A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.50											
CA [4A]-4A(1)-13A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [4A]-4A-29A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [4A]-4A(1)-29A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.54	14.50											
CA [4A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.50											
CA [4A]-4A(1)-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.55	14.50											
CA [4A]-4A-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B4	20	2300	2145	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.56	14.50											
CA [4A]-46C	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.47	14.50											
CA 4A-5A-10A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.58	14.50											
CA 4A-7A(1)-12A(1)	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.56	14.50											
CA 4A-12A-13A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.56	14.50											
CA 4A-29A-30A	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.60	14.50											
CA [2A]-4A-5B	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B5	5	2453	874.3	14.59	14.50									
CA 2A-4A(1)-12B	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B5	5	2453	874.3	14.48	14.50									
CA 2A-4A(1)-12B	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	5	5095	737.5	2x2 MIMO	LTE B12	5	5093	732.7	2x2 MIMO	LTE B12	5	5093	732.7	2x2 MIMO	LTE B12	5	5093	732.7	14.50	14.50									
CA [4A]-4A-5B	LTE B4	20	20500	1720	QPSK	1	0	2050	2120	4x4 MIMO	LTE B4	20	2300	2145																															

1.4.9 LTE Band 66 as PCC

Table 65
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	PCC				DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
					Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.																			
CA 12A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.68	14.70	
CA 2A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.68	14.70	
CA 7A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.61	14.70	
CA 7A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.65	14.70	
CA 12A-66A (1)	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.67	14.70	
CA 12A-66A (2)	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.67	14.70	
CA 12A-2A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	14.66	14.70
CA 12C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	14.67	14.70
CA 2C-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 2A-66B	LTE B66	15	132047	1717.5	64QAM	1	74	66511	2117.5	4x4 MIMO	LTE B66	5	66604	2126.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.69	14.70
CA 2A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.65	14.70
CA 2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.68	14.70
CA 2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.69	14.70
CA 12A-5A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.67	14.70
CA 2A-5A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.66	14.70
CA 2A-12A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 2A-12A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.67	14.70
CA 12A-13A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.69	14.70
CA 2A-13A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.67	14.70
CA 12A-14A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 2A-14A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.66	14.70
CA 12A-20A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B20	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 2A-20A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B20	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 12A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.69	14.70
CA 2A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.64	14.70
CA 3A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.68	14.70
CA 12A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B66	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	14.67	14.70
CA 2A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	14.63	14.70
CA 5A-66C	LTE B66	15	132047	1717.5	64QAM	1	74	66511	2117.5	4x4 MIMO	LTE B66	5	66604	2126.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.66	14.70
CA 5A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.68	14.70
CA 5A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 12A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.64	14.70
CA 12A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.69	14.70
CA 12A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 12A-13A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.63	14.70
CA 13A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 13A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 13A-66B	LTE B66	15	132047	1717.5	64QAM	1	74	66511	2117.5	4x4 MIMO	LTE B66	5	66604	2126.8	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.58	14.70
CA 13A-66C	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.68	14.70
CA 13A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	14.65	14.70
CA 14A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.64	14.70
CA 14A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.69	14.70
CA 14A-30A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.64	14.70
CA 29A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 29A-66A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.70	14.70
CA 29A-13A-66A	LTE B66	20	132072	1720	64QAM	1	99	66536	2120	2x2 MIMO	LTE B29	10	9715	722.													

Reduced Output Powers – Ant 2B

Combination		PCC Band	PCC BW [MHz]	PCC UC [Ch.]	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	Off Offset	PCC UC [Ch.]	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC UC [Ch.]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC UC [Ch.]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC UC [Ch.]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC UC [Ch.]	LTE Tx Power With CA Enabled (dBm)	LTE Single Carrier Tx (dBm)			
CA [2A]-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.25	14.30		
CA [2A]-66B	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.30	14.30	
CA [2A]-66C	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30	
CA [7A]-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E87	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30	
CA [12A]-66A (1)	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E812	10	5095	7375	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.24	14.30	
CA [12A]-66A (2)	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E812	10	5095	7375	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.24	14.30	
CA [2A]-26A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	4x4 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30
CA [2C]-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30
CA [2A]-66B	LTE B86	15	132047	1717.5	1GQAM	1	74	66511	2117.5	4x4 MIMO	LT E86	5	66604	2126.8	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.94	14.30
CA [2A]-66C1	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E86	20	66734	2139.8	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.25	14.30
CA [2A]-66A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	67236	2139.8	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30
CA [12A]-5A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	4x4 MIMO	LT E85	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.27	14.30
CA [2A]-5A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E85	5	2453	874.3	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.24	14.30
CA [2A]-13A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [12A]-13A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-13A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	2x2 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.26	14.30
CA [2A]-14A-66A	LTE B86	20	132072	1720	1GQAM	1	99	66536	2120	4x4 MIMO	LT E82	20	900	1960	2x2 MIMO	LT E82	2																	

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 24 of 37

Table 67
Reduced Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]			
CA 2A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.93	15.00	
CA 17A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.85	15.00	
CA 7A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.86	15.00	
CA 12A-66A (1)	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.92	15.00	
CA 12A-66A (2)	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.92	15.00	
CA 12A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 12C-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	14.99	15.00
CA 2C-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	14.97	15.00
CA 2A-66B	LTE B66	15	132047	1717.5	16QAM	1	36	66511	2117.5	4x4 MIMO	LTE B66	5	66604	2126.8	4x4 MIMO	LTE B66	5	900	1960	2x2 MIMO	-	-	-	-	-	14.92	14.98
CA 2A-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 12A-5A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 2A-5A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	15.00	15.00
CA 12A-12A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.96	15.00
CA 2A-12A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.97	15.00
CA 12A-13A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	15.00	15.00
CA 2A-13A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.97	15.00
CA 2A-14A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 2A-14A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 12A-29A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 2A-29A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.96	15.00
CA 12A-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 2A-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	14.92	15.00
CA 2A-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.96	15.00
CA 12A-46A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	14.99	15.00
CA 2A-46A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	14.99	15.00
CA 5A-66B	LTE B66	15	132047	1717.5	16QAM	1	36	66511	2117.5	4x4 MIMO	LTE B66	5	66604	2126.8	4x4 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	14.95	14.98
CA 5A-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	14.99	15.00
CA 5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B5	10	5252	881.5	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 12A-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	15.00	15.00
CA 12A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	15.00	15.00
CA 12A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	15.00	15.00
CA 12A-13A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 2A-13A-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	14.92	15.00
CA 13A-46A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	14.92	15.00
CA 14A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.94	15.00
CA 14A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	15.00	15.00
CA 12A-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	14.98	15.00
CA 29A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.95	15.00
CA 29A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.99	15.00
CA 12A-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	14.98	15.00
CA 30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	6723														

Table 68
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				L1E Tx Power (dBm)	L1E Single Carrier Tx Power (dBm)		
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]				
CA 2A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.52	14.50		
CA 2A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.49	14.50	
CA 17A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.51	14.50	
CA 7A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.46	14.50	
CA 12A-66A (1)	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.51	14.50	
CA 12A-66A (2)	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.51	14.50	
CA 12A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	14.54	14.50
CA 12C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	-	14.59	14.50
CA 2C-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	-	14.48	14.50
CA 2A-66B	LTE B66	15	132322	1745	16QAM	1	0	66786	2145	4x4 MIMO	LTE B66	5	66693	2135.7	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.29	14.50
CA 2A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.50	14.50
CA 2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.50	14.50
CA 2A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.50	14.50
CA 12A-5A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.57	14.50
CA 12A-12A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.58	14.50
CA 2A-12A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.52	14.50
CA 12A-13A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.55	14.50
CA 2A-13A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.52	14.50
CA 2A-14A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.54	14.50
CA 2A-14A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.53	14.50
CA 12A-29A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.55	14.50
CA 2A-29A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.55	14.50
CA 12A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.51	14.50
CA 2A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.57	14.50
CA 2A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.54	14.50
CA 12A-46A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.58	14.50
CA 2A-46A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.58	14.50
CA 5A-66B	LTE B66	15	132322	1745	16QAM	1	0	66786	2145	4x4 MIMO	LTE B66	5	66693	2135.7	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.31	14.50
CA 5A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.49	14.50
CA 5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.53	14.50
CA 5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.59	14.50
CA 5A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	10	5255	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.57	14.50
CA 12A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.48	14.50
CA 12A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.52	14.50
CA 12A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.56	14.50
CA 12A-13A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.55	14.50
CA 13A-66C	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67336	2139.8	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.49	14.50
CA 13A-46A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.48	14.50
CA 14A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.57	14.50
CA 14A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.58	14.50
CA 14A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.56	14.50
CA 29A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.55	14.50
CA 29A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2130	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.52	14.50
CA 29A-13A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.58	14.50
CA 30A-66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2130	2x2 MIMO	LTE B30	10	9820	2355									

1.4.10 LTE Band 2 as PCC

Table 69
Reduced Output Powers – Ant 2A

Combination		PCC Band	PCC BW [MHz]	PCC UL Ch.	PCC (UL) Freq [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA [2A]-4A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00	
CA [2A]-14A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00	
CA [2A]-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00	
CA [2A]-17A	LTE B2	10	18550	1855	64QAM	1	49	650	1935	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.76	13.98	
CA [2A]-29A	LTE B2	10	18650	1855	64QAM	1	49	650	1935	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.77	13.98	
CA [2A]-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.98	14.00	
CA [2A]-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00	
CA [2A]-24A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00
CA [2A]-44A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B4	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-64A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B4	20	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-2A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.97	14.00
CA [2A]-2A-5A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2C]-1A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00
CA [2A]-2A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00
CA [2A]-2A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2C]-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.98	14.00
CA [2A]-2A-13A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-2A-13A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.99	14.00
CA [2A]-2A-14A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.96	14.00
CA [2A]-2A-14A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-2A-29A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.97	14.00
CA [2A]-2A-29A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2C]-25A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.97	14.00
CA [2C]-30A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.96	14.00
CA [2A]-2A-30A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-2A-46A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.98	14.00
CA [2A]-2A-46A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-2A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.97	14.00
CA [2A]-2A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2C]-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B2	20	727	1942.7	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	13.98	14.00
CA [2C]-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B2	20	727	1942.7	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-66B	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-66B	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B66	15	66786	2145	2x2 MIMO	LTE B66	20	66884	2164.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-66A-66A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-12A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-13A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-13A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B13	10	5230	751	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-29A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-29A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	14.00	14.00
CA [2A]-4A-30A	LTE B2	20	18925	1882.5	QPSK	1	0	925	1862.5																									

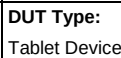
Table 71
Reduced Output Powers – Ant 4A

SC 1																								SC 2				SC 3				Power	
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]						
CA [2A]-4A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.13	15.30					
CA [2A]-4A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.24	15.30					
CA [2A]-12A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.18	15.30					
CA [2A]-17A	LTE B2	5	18625	1852.5	QPSK	12	0	625	1932.5	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.26	15.30					
CA [2A]-29A	LTE B2	5	18625	1852.5	QPSK	12	0	625	1932.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.27	15.30					
CA [2A]-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.14	15.30					
CA [2A]-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.13	15.30					
CA [2A]-2A-4A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	15.20	15.30				
CA [2A]-2A-4A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	15.12	15.30				
CA [2A]-4A-4A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	15.16	15.30				
CA [2A]-2A-5A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	15.13	15.30				
CA [2A]-2A-5A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	15.18	15.30				
CA [2C]-5A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	15.18	15.30				
CA [2A]-2A-12A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	15.11	15.30				
CA [2A]-2A-12A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	15.09	15.30				
CA [2A]-12A-13A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	15.15	15.30				
CA [2A]-2A-13A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	15.16	15.30				
CA [2A]-2A-13A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	15.15	15.30				
CA [2A]-2A-14A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	-	15.10	15.30				
CA [2A]-2A-14A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	-	15.16	15.30				
CA [2A]-2A-29A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	15.17	15.30				
CA [2C]-29A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	15.14	15.30				
CA [2C]-30A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	15.14	15.30				
CA [2C]-130A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	-	15.15	15.30				
CA [2A]-2A-30A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	15.15	15.30				
CA [2A]-2A-30A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	15.13	15.30				
CA [2A]-2A-46A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	15.19	15.30				
CA [2A]-2A-46A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	15.16	15.30				
CA [2A]-2A-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	15.13	15.30				
CA [2A]-2A-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	15.15	15.30				
CA [2C]-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	15.08	15.30				
CA [2A]-66B	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	15.14	15.30				
CA [2A]-66C	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	-	-	15.13	15.30				
CA [2A]-66A-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	-	15.12	15.30				
CA [2A]-4A-5A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	15.13	15.30				
CA [2A]-4A-5A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	15.14	15.30				
CA [2A]-4A-12A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	15.16	15.30				
CA [2A]-4A-12A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	15.17	15.30				
CA [2A]-4A-13A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	15.09	15.30				
CA [2A]-4A-13A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	-	15.20	15.30				
CA [2A]-4A-29A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	15.14	15.30				
CA [2A]-4A-29A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	15.15	15.30				
CA [2A]-4A-30A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	15.18	15.30				
CA [2A]-4A-30A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	-	15.09	15.30				
CA [2A]-4A-130A	LTE B2	20	18700	1860	16QAM	1	0</																										

Table 72
Reduced Output Powers – Ant 4B

[illegible]

Test Dates:
1C1806220015-01.BCG



SAR EVALUATION REPORT

Reviewed by:
Quality ManagerAPPENDIX H:
Page 30 of 37

1.4.11 LTE Band 25 as PCC

Table 73
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				Power		
						PCC UL1 RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Power (dBm)
CA 5A-[25A]	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	13.92	14.00	
CA [25A]-26A	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	13.98	14.00	
CA [25A]-25A-26A	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	4x4 MIMO	LTE B25	20	8140	1940	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	13.96	14.00
CA [25A]-25A-26A	LTE B25	20	26365	1882.5	QPSK	1	0	8365	1962.5	2x2 MIMO	LTE B25	20	8140	1940	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	13.95	14.00

Table 74
Reduced Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				Power		
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5A-[25A]	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	13.63	13.68	
CA [25A]-26A	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	13.60	13.68	
CA [25A]-25A-26A	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	4x4 MIMO	LTE B25	20	8140	1940	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	13.63	13.68
CA [25A]-25A-26A	LTE B25	15	26365	1882.5	QPSK	1	0	8365	1962.5	2x2 MIMO	LTE B25	20	8140	1940	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	13.66	13.68

Table 75
Reduced Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC								SCC 1				SCC 2				Power		
				PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Power (dBm)
CA 5A-[25A]	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	15.17	15.30
CA [25A]-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	-	15.15	15.30
CA [25A]-25A-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	15.17	15.30
CA [25A]-25A-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	2x2 MIMO	LTE B25	20	8590	1985	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	15.12	15.30

Table 76
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC					DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				Power	
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	SCC Band		SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 5A-[25A]	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.18	14.20
CA [25A]-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	-	14.17	14.20
CA [25A]-25A-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	14.20	14.20
CA [25A]-25A-26A	LTE B25	20	26140	1860	64QAM	1	99	8140	1940	2x2 MIMO	LTE B25	20	8590	1985	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	14.17	14.20

1.4.12 LTE Band 30 as PCC

Table 77
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC				DL Ant. Config.	SCC 1				DL Ant. Config.	SCC 2				DL Ant. Config.	SCC 3				Power		
						PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [2C]-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	12.57	12.60
CA 2C-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	12.50	12.60
CA [2A]-2A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	12.60	12.60
CA [2A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	12.60	12.60
CA 2A-[4A]-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	12.60	12.60
CA 2A-4A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	12.58	12.60
CA 2A-5A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	12.54	12.60
CA 2A-12A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	12.56	12.60
CA 2A-14A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	12.57	12.60
CA 2A-29A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	12.60	12.60
CA [2A]-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	12.60	12.60
CA 2A-[30A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	12.60	12.60
CA 2A-30A-[66A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	12.59	12.60
CA [4A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	12.56	12.60
CA 4A-5A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	12.58	12.60
CA 4A-12A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	12.55	12.60
CA 4A-29A-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	12.57	12.60
CA 5A-[30A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	12.47	12.60
CA 12A-[30A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	12.56	12.60
CA 14A-[30A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	12.55	12.60
CA 29A-[30A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	12.57	12.60
CA 30A-[66A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	12.60	12.60
CA 2A-5B-[30A]	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	12.55	12.60
CA 5B-[30A]-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	12.53	12.60

FCC ID: BCGA1934	
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Reduced Output Powers – Ant 2B

Combination	PCB Band	PCB BW [MHz]	PCB Ch. [MHz]	PCU (UL) Freq. [MHz]	Mod.	PCC				SCC 1				SCC 2				SCC 3				Power					
						PCU UL#s RB	PCU UL#s RB Offset	PCU (DL) Ch.	PCU (UL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2C]-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B2	20	900	1960	4x4 MIMO	LT B2	20	702	1940.2	4x4 MIMO	-	-	-	12.85	12.90		
CA 2C-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B2	20	702	1940.2	2x2 MIMO	-	-	-	12.89	12.90		
CA [2A]-2A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B2	20	900	1960	4x4 MIMO	LT B2	20	700	1940	2x2 MIMO	-	-	-	12.90	12.90		
CA [2A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B2	20	900	1960	4x4 MIMO	LT B2	20	712	2132.2	2x2 MIMO	-	-	-	12.90	12.90		
CA 2A-[4A]-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B4	20	2175	2132.5	2x2 MIMO	-	-	-	12.86	12.90		
CA 2A-4A-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B4	20	2175	2132.5	2x2 MIMO	-	-	-	12.90	12.90		
CA 2A-5A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B5	20	2525	881.5	2x2 MIMO	-	-	-	12.89	12.90		
CA 2A-12A-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	4x4 MIMO	LT B12	20	5095	773.5	2x2 MIMO	-	-	-	12.89	12.90		
CA 2A-14A-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B14	10	5330	763	2x2 MIMO	-	-	-	12.90	12.90		
CA 2A-29A-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B29	10	9715	722.5	2x2 MIMO	-	-	-	12.86	12.90		
CA 2A-30A-166A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.89	12.90		
CA 2A-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.90	12.90		
CA [4A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B4	20	2175	2132.5	4x4 MIMO	LT B4	10	2350	2150	2x2 MIMO	-	-	-	12.84	12.90		
CA 4A-5A-30A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B4	20	2175	2132.5	2x2 MIMO	LT B4	10	2525	881.5	2x2 MIMO	-	-	-	12.89	12.90		
CA 4A-12A-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B4	20	2175	2132.5	2x2 MIMO	LT B12	10	5095	773.5	2x2 MIMO	-	-	-	12.89	12.90		
CA 4A-29A-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B4	20	2175	2132.5	2x2 MIMO	LT B29	10	9715	722.5	2x2 MIMO	-	-	-	12.90	12.90		
CA 5A-130A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B5	10	2525	881.5	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.84	12.90		
CA 5A-130A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B12	10	5095	773.5	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.89	12.90		
CA 14A-130A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B14	10	5330	763	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.89	12.90		
CA 29A-130A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B29	10	9715	722.5	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.90	12.90		
CA 30A-166A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	-	-	-	12.85	12.90		
CA 2A-5B-130A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B2	20	900	1960	2x2 MIMO	LT B5	10	2525	881.5	2x2 MIMO	LT B5	5	2453	874.3	2x2 MIMO	12.85	12.90
CA 5B-30A-66A	LTE B30	10	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT B5	10	2525	881.5	2x2 MIMO	LT B5	5	2453	874.3	2x2 MIMO	LT B66	20	66786	2145	2x2 MIMO	12.85	12.90

Reduced Output Powers – Ant 4A

Combination	PCB Band	PCB BW [MHz]	PC Cch [MHz]	PC CUL [Freq. [MHz]	Mod.	PCC				SCC 1				SCC 2				SCC 3				Power					
						PC CUL RB	PC CUL RB Offset	PC Cch [MHz]	PC CUL [Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC Cch [MHz]	SCC CUL [Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC Cch [MHz]	SCC CUL [Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC Cch [MHz]	SCC CUL [Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 12C1-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	13.50	13.50		
CA 2C-130A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	13.47	13.50		
CA 2A-24A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	13.47	13.50		
CA 2A-4A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	712	212	212	2x2 MIMO	-	-	-	13.47	13.50	
CA 2A-16A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	13.43	13.50		
CA 2A-4A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	13.50	13.50		
CA 2A-12A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	20	2525	881.5	2x2 MIMO	-	-	-	13.47	13.50		
CA 2A-12A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	20	5095	777.5	2x2 MIMO	-	-	-	13.50	13.50		
CA 2A-14A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	20	5330	763	2x2 MIMO	-	-	-	13.49	13.50		
CA 2A-29A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	13.46	13.50		
CA 2A-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	66786	2145	2x2 MIMO	-	-	-	13.46	13.50		
CA 2A-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	13.45	13.50		
CA 2A-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	13.41	13.50		
CA 4A-4A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	20	2130	2150	2x2 MIMO	-	-	-	13.48	13.50		
CA 5A-5A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	20	2525	881.5	2x2 MIMO	-	-	-	13.48	13.50		
CA 4A-12A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	777.5	2x2 MIMO	-	-	-	13.44	13.50		
CA 4A-29A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	13.48	13.50		
CA 5A-10A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	13.47	13.50		
CA 5A-10A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B12	20	5095	777.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	13.47	13.50		
CA 14A-130A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B14	20	5330	763	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	13.46	13.50		
CA 29A-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	13.45	13.50		
CA 30A-160A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	13.44	13.50		
CA 2A-5B-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	20	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	13.50	13.50	
CA 3B-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B66	20	67396	2190	2x2 MIMO	13.41	13.50

Table 60

Reduced Output Powers – Ant 4B

PCC										SEC 1						SEC 2						SEC 3						Power	
Combination	PCC Band	PCC BW [MHz]	PCC Ch.	PCC U/L Freq. [MHz]	Mod.	PCC U/L RB	PCC RB Offset	PCC Ch. Ch.	PCC (DL) Freq. [MHz]	Dt. Ant. Config.	SCC Band	SCC BW [MHz]	SCC Ch. Ch.	SCC (DL) Freq. [MHz]	Dt. Ant. Config.	SCC Band	SCC BW [MHz]	SCC Ch. Ch.	SCC (DL) Freq. [MHz]	Dt. Ant. Config.	SCC Band	SCC BW [MHz]	SCC Ch. Ch.	SCC (DL) Freq. [MHz]	Dt. Ant. Config.	LTE Tx Power (dBm)	LTE Single Carri. Tx Power (dBm)		
CA {2C}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E2	20	900	1960	4x4 MIMO	LT E2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	13.23	13.20		
CA {2C}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	13.21	13.20		
CA {2A-2A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E2	20	900	1960	4x4 MIMO	LT E2	20	700	1940	2x2 MIMO	-	-	-	-	-	13.24	13.20		
CA {2A-4A}-30A	LTE B30	20	27710	2310	QPSK	2	49	9820	2355	2x2 MIMO	LT E2	20	900	1960	4x4 MIMO	LT E2	20	2125	2132.5	2x2 MIMO	-	-	-	-	-	13.25	13.20		
CA {2A-14A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	13.29	13.20		
CA {2A-4A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	13.23	13.20		
CA {2A-5A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E5	20	2525	2525	2x2 MIMO	-	-	-	-	-	13.22	13.20		
CA {2A-12A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E2	20	5095	5095	2x2 MIMO	-	-	-	-	-	13.24	13.20		
CA {2A-14A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E4	20	5330	763	2x2 MIMO	-	-	-	-	-	13.25	13.20		
CA {2A-29A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	13.23	13.20		
CA {2A-30A}-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E2	20	900	1960	4x4 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.26	13.20		
CA {2A-30A}-66A	LTE B30	20	27710	2310	QPSK	2	49	9820	2355	4x4 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.24	13.20		
CA {2A-30A}-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E2	20	900	1960	2x2 MIMO	LT E66	20	6678	2145	4x4 MIMO	-	-	-	-	-	13.30	13.20		
CA {4A}-4A-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E4	20	2175	2132.5	4x4 MIMO	LT E4	20	2130	2150	2x2 MIMO	-	-	-	-	-	13.28	13.20		
CA {4A-5A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E4	20	2175	2132.5	2x2 MIMO	LT E4	20	2525	885	2x2 MIMO	-	-	-	-	-	13.28	13.20		
CA {4A-12A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E4	20	2175	2132.5	2x2 MIMO	LT E2	20	5095	737.5	2x2 MIMO	-	-	-	-	-	13.26	13.20		
CA {4A-29A}-30A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E4	20	2175	2132.5	2x2 MIMO	LT E29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	13.23	13.20		
CA {5A}-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E5	20	2525	881.5	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.32	13.20		
CA {5A-130A}-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E12	10	5095	727.5	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.27	13.20		
CA {14A}-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E14	10	5330	763	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.23	13.20		
CA {29A}-30A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E29	10	9715	722.5	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.26	13.20		
CA {30A}-66A-66A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	LT E66	20	6678	2145	2x2 MIMO	-	-	-	-	-	13.27	13.20		
CA {30A}-66A-130A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E6	20	900	1960	2x2 MIMO	LT E6	20	2525	885	2x2 MIMO	-	-	-	-	-	13.27	13.20		
CA {30A}-66A-130A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E8	20	900	1960	2x2 MIMO	LT E8	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	13.25	13.20		
CA {30A}-66A-130A	LTE B30	20	27710	2310	QPSK	1	49	9820	2355	4x4 MIMO	LT E5	20	2525	881.5	2x2 MIMO	LT E5	20	2525	874.3	2x2 MIMO	-	-	-	-	-	13.24	13.20		

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 32 of 37

1.4.13 LTE Band 7 as PCC

Table 81
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC						SCC 1				SCC 2				SCC 3				Power									
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 5A-7A	LTE B7	20	21350	2560	QPSK	1	0	3150	2680	4x4 MIMO	LTE B5	10	2525	881.3	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.99	12.00	
CA 7B	LTE B7	15	21375	2562.5	QPSK	1	36	3375	2682.5	4x4 MIMO	LTE B7	5	3282	2673.2	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.99	11.99	
CA 7C(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B7	20	3152	2660.2	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.99	12.00	
CA 7A(1)-12A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.93	12.00	
CA 7A(1)-46A(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	3680	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.92	12.00	
CA 7A(1)-66A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.91	12.00	
CA 7A(1)-66A(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.92	12.00	
CA 4A(1)-4A-7A(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	11.99	12.00
CA 4A(1)-7A(1)-7A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B7	20	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	11.96	12.00
CA 4A(1)-7A(1)-2A	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	2x2 MIMO	LTE B7	20	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	11.96	12.00
CA 4A(1)-7A(1)-12A(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	11.97	12.00
CA 7A(1)-46C(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	11.94	12.00
CA 7A(1)-46D(1)	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	11.91	12.00

Table 82
Reduced Output Powers – Ant 2B

SCC 1																			SCC 2				SCC 3				Power	
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)						
CA 5A-7A)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	11.99	12.29					
CA 7B)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B7	5	3007	2645.7	4x4 MIMO	-	-	-	-	-	-	12.07	12.29					
CA 7C(1)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B7	20	2929	2637.9	4x4 MIMO	-	-	-	-	-	-	12.00	12.29					
CA 7A)-12A	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	11.98	12.29					
CA 7A)-46A(1)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	11.99	12.29					
CA 7A)-66A	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	12.00	12.29					
CA 7A)-66A)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	11.98	12.29					
CA 1A)-4A-7A(1)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	11.93	12.29				
CA 4A)-7A(1)-7A	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B7	20	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	11.96	12.29				
CA 4A)-7A(1)-2A	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	2x2 MIMO	LTE B7	20	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	11.94	12.29				
CA 4A)-7A(1)-12A(1)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	11.94	12.29				
CA 7A)-46C(1)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	11.95	12.29				
CA 7A)-46D(1)	LTE B7	15	21100	2535	64QAM	1	0	3100	2655	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	11.95	12.29				

Table 83
Reduced Output Powers – Ant 4A

Combination	PCC Band	PCC						SCC 1				SCC 2				SCC 3				Power									
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 5A-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.96	12.00	
CA 7B	LTE B7	15	20825	2507.5	QPSK	36	37	2825	2627.5	4x4 MIMO	LTE B7	5	2918	2636.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.99	12.00	
CA 7C(1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B7	20	3048	2649.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.96	12.00	
CA 7A(1)-12A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.99	12.00	
CA 7A(1)-46A(1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7A(1)-66A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7A(1)-66A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.98	12.00	
CA 4A(1)-4A-7A(1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	11.97	12.00
CA 4A(1)-7A(1)-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B7	20	3350	2680	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	11.98	12.00
CA 4A(1)-7A(1)-2A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B7	20	3350	2680	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	11.97	12.00
CA 4A(1)-7A(1)-12A(1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	11.97	12.00
CA 7A(1)-46C(1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	12.00	12.00
CA 7A(1)-46D(1)	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	-	-	12.00	12.00

Table 84
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC						SCC 1				SCC 2				SCC 3				Power									
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 5A-7A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	12.00	12.00	
CA 7B	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B7	5	3282	2673.2	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.98	12.00	
CA 7C(1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B7	20	3204	2665.4	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	12.03	12.00	
CA 7A(1)-12A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	12.01	12.00	
CA 7A(1)-46A(1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.98	12.00	
CA 7A(1)-66A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	12.02	12.00	
CA 7A(1)-66A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	11.98	12.00	
CA 4A(1)-4A-7A(1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	12.02	12.00
CA 4A(1)-7A(1)-7A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B7	20	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	12.04	12.00
CA 4A(1)-7A(1)-7A	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	2x2 MIMO	LTE B7	20	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	12.04	12.00
CA 4A(1)-12A(1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	12.02	12.00
CA 7A(1)-46C(1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50667	5517.7	2x2 MIMO	-	-	-	-	-	-	-	12.02	12.00
CA 7A(1)-46D(1)	LTE B7	15	21375	2562.5	QPSK	36	37	3375	2682.5	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50667	5517.7	2x2 MIMO	-	-	-	-	-	-	-	12.04	12.00

1.4.14 LTE Band 41 as PCC

Table 85
Reduced Output Powers – Ant 2A

Combination	PCC Band	PCC										SCC 1				SCC 2				SCC 3				Power	
		PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC UL RB	PCC RB Offset	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
CA 41A1-41A1 (1)	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	4x4 MIMO	LTE B41	20	39750	2506	2x2 MIMO	-	-	-	-	-	-	14.80	14.80		
CA 41A1-41A1 (1)	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	2x2 MIMO	LTE B41	20	39750	2506	4x4 MIMO	-	-	-	-	-	-	14.77	14.80		
CA 41A1-41C	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	14.80	14.80		
CA 41A1-41A1	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	2x2 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	14.78	14.80		
CA 41C-41A1	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	2x2 MIMO	LTE B41	20	40818	2612.8	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	14.78	14.80		
CA 41C-41A	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	4x4 MIMO	LTE B41	20	40818	2612.8	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	14.77	14.80		
CA 41A1-41D	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	4x4 MIMO	LTE B41	20	41490	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	14.80	14.80		
CA 41D-41A1	LTE B41	20	40620	2593	QPSK	1	99	40620	2593	2x2 MIMO	LTE B41	20	40422	2573.2	2x2 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	-	14.80	14.80		

Table 86
Reduced Output Powers – Ant 2B

Combination	PCC Band	PCC										SCC 1				SCC 2				SCC 3				Power			
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL Rx	PCC UL rx Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 141A-141A (1)	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.42	14.49
CA 142A-142A (1)	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.42	14.49
CA 141A-141C	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.42	14.49
CA 41A-41C	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	14.34	14.49
CA 41C-41A	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	2x2 MIMO	LTE B41	20	39921	2523.1	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	14.36	14.49
CA 141C-141A	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41	20	39921	2523.1	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.44	14.49
CA 141A-141B	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41	20	41094	2648.8	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.42	14.49
CA 141B-141A	LTE B43	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41	20	41094	2648.8	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.42	14.49

Table 87
Reduced Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC										SCC1				SCC2				SCC3				Power	
						PCC UL RB	PCC UL RB Offset	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA {41A}-41A {1}	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	14.49	14.50					
CA {41A}-41A {1}	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	14.49	14.50					
CA {41A}-41C	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	14.49	14.50					
CA {41A}-41C	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	14.41	14.50					
CA {41C}-41A	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	2x2 MIMO	LTE B41	20	40183	2569.3	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	14.42	14.50					
CA {41C}-41A	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	4x4 MIMO	LTE B41	20	40183	2569.3	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	14.48	14.50					
CA {41A}-41B	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	4x4 MIMO	LTE B41	20	41094	2640.4	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	14.42	14.50		
CA {41A}-41B	LTE B41	20	40185	2549.5	QPSK	1	50	40185	2549.5	2x2 MIMO	LTE B41	20	40183	2569.3	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	14.42	14.50		

Table 88
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC										SCC 1					SCC 2					SCC 3					Power	
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC USF RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL Carrier Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA {41A}{41A}	LTE B43	20	40185	2549.5	15QAM	1	0	40185	2549.5	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.00	14.97
CA {41A}{41A}	LTE B41	20	40185	2549.5	15QAM	1	0	40185	2549.5	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.00	14.97
CA {41A}{41C}	LTE B41	20	40185	2549.5	15QAM	1	0	40185	2549.5	4x4 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.97	14.97
CA {41A}{41C}	LTE B41	20	40185	2549.5	15QAM	1	0	40185	2549.5	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	14.96	14.97
CA {41C}{41A}	LTE B43	20	40185	2549.5	15QAM	1	0	40185	2549.5	2x2 MIMO	LTE B41	20	40383	2569.3	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	15.00	14.97
CA {41C}{41A}	LTE B41	20	40185	2549.5	15QAM	1	0	40185	2549.5	4x4 MIMO	LTE B41	20	40383	2569.3	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	14.96	14.97
CA {41A}{41A}	LTE B41	20	40185	2549.5	15QAM	1	0	40185	2549.5	4x4 MIMO	LTE B41	20	41094	2640.4	2x2 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	14.96	14.97
CA {41A}{41A}	LTE B41	20	40185	2549.5	15QAM	1	0	40185	2549.5	2x2 MIMO	LTE B41	20	40383	2569.3	2x2 MIMO	LTE B41	20	40581	2589.1	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	14.99	14.97

1.4.15 LTE Band 41 PC2 as PCC

Table 89
Reduced Output Powers – Ant 2A

[illegible]

Table 90
Reduced Output Powers – Ant 2B

		PCC										SCC 1				SCC 2				SCC 3				Power				
Combination	PCC Band	PCC BW [MHz]	PCC Ch. [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 1(A1A) 4(A1A) (1)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	14.58	14.50
CA 1(A1A) 4(A1A) (1)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	14.47	14.50
CA 41(A1) 41(C)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	41292	2660.2	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.47	14.50
CA 41(A1) 41(C)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	41292	2660.2	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.50	14.50
CA 41(A1) 41(C)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	41292	2660.2	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.50	14.50
CA 41(A1) 41(C)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	39921	2523.1	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.45	14.50
CA 41(C) 42(A)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	39921	2523.1	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.49	14.50
CA 41(A) 41(D)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	41094	2640.4	2x2 MIMO	LTE B41 PCC	20	41292	2660.2	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	14.48	14.50
CA 41(A) 41(C)	LTE B41 PCC	15	39750	2506	QPSK	1	74	39750	2506	4x4 MIMO	LTE B41 PCC	20	40194	2620.4	2x2 MIMO	LTE B41 PCC	20	41292	2660.2	2x2 MIMO	LTE B41 PCC	20	41490	2680	2x2 MIMO	-	14.48	14.50

FCC ID: BCGA1934	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device	APPENDIX H: Page 34 of 37

Table 91
Reduced Output Powers – Ant 4A

Combination	PCC										SCC 1				SCC 2				SCC 3				Power						
	PCC Band	PCC BW [MHz]	PCC [UL/DL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 41A-41A(1)	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	14.45	14.50	
CA 41A-41A(1)	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	14.46	14.50	
CA 41A-41C	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	14.45	14.50
CA 41A-41C	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	4x4 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	14.44	14.50
CA 41C-41A	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	14.49	14.50
CA 41C-41A	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	39948	2525.8	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	14.47	14.50
CA 41A-41D	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	41094	2640.4	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	14.48	14.50
CA 41D-41A	LTE B41 PC2	20	39750	2506	16QAM	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	40186	2545.5	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	14.49	14.50

Table 92
Reduced Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Freq. [MHz]	PCC							SCC 1				SCC 2				SCC 3				Power						
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
CA 41A-41A(1)	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.98	14.98		
CA 41A-41A(1)	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.92	14.98		
CA 41A-41C	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	4x4 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.79	14.98	
CA 41A-41C	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	4x4 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	14.74	14.98	
CA 41C-41A	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	2x2 MIMO	LTE B41 PC2	20	39867	2517.7	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	14.78	14.98	
CA 41C-41A	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	4x4 MIMO	LTE B41 PC2	20	39867	2517.7	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	14.82	14.98	
CA 41A-41D	LTE B41 PC2	5	39750	2506	16QAM	1	0	39750	2506	4x4 MIMO	LTE B41 PC2	20	41094	2640.4	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	14.81	14.98
CA 41D-41A	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	2x2 MIMO	LTE B41 PC2	20	40383	2569.3	2x2 MIMO	LTE B41 PC2	20	40581	2589.1	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	14.98	14.98

1.5 Downlink Carrier Aggregation with CA_41C and & CA_7C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) for CA_41C and CA_7C with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA CA_41C or ULCA CA_7C active and additional CA configurations active in the downlink for the configuration required for ULCA CA_41C and ULCA CA_7C per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for ULCA with only CA_41C or CA_7C active.

1.5.1 DL Carrier Aggregation RF Conducted Powers

Table 93
Reduced Output Powers – Ant 2A

Combination	PCC										SCC1				SCC2				SCC3				SCC4				Power		
	PCC Band	PCC Bandwidth [MHz]	PCC [UL/DL] Channel	PCC [UL/DL] Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [UL/DL] Channel	SCC [UL/DL] Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	LTE Tx Power with add'l CA configuration active in DL (dBm)	LTE Tx Power (dBm)
CA_41C-41A	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	14.73	14.76
CA_41D	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	-	-	-	-	-	-	-	-	-	14.75	14.76
CA_41E	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	LTE B41	20	41016	2632.6	-	-	-	-	-	14.77	14.76
CA_41C-41C	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	14.76	14.76
CA_41D-41A	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	LTE B41	20	41490	2680	-	-	-	-	-	14.76	14.76
CA_41C-41D	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	14.75	14.76
CA_41D-41C	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	14.73	14.76

Table 94
Reduced Output Powers – Ant 2B

Combination	PCC										SCC1				SCC2				SCC3				SCC4				Power			
	PCC Band	PCC Bandwidth [MHz]	PCC [UL/DL] Channel	PCC [UL/DL] Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [UL/DL] Channel	SCC [UL/DL] Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC [DL] Channel	SCC [DL] Frequency [MHz]	DL Ant. Config.	LTE Tx Power with add'l CA configuration active in DL (dBm)	LTE Tx Power (dBm)	
CA_41C-41A	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	14.05	14.07	
CA_41D	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	40383	2569.3	LTE B41	20	40581	2589.1	-	-	-	-	-	-	14.03	14.07
CA_41E	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	14.04	14.07
CA_41C-41C	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	14.04	14.07
CA_41D-41A	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	40383	2569.3	LTE B41	20	41490	2680	-	-	-	-	-	-	14.03	14.07
CA_41C-41D	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	14.05	14.07
CA_41D-41C	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	14.06	14.07

FCC ID: BCGA1934		SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device		APPENDIX H: Page 35 of 37

Table 95
Reduced Output Powers – Ant 4A

Combination	PCC										SCC1				SCC2				SCC3				SCC4				Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)
CA_41C-41A	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	14.05	14.08
CA_41D	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	40383	2569.3	-	-	-	-	-	-	-	-	14.05	14.08
CA_41E	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	40383	2569.3	LTE B41	20	40383	2569.3	-	-	-	-	14.02	14.08
CA_41C-41C	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	13.96	14.08
CA_41D-41A	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	40383	2569.3	LTE B41	20	41490	2680	-	-	-	-	14.07	14.08
CA_41C-41D	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.06	14.08
CA_41D-41C	LTE B41	20	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	LTE B41	20	40383	2569.3	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.04	14.08

Table 96
Reduced Output Powers – Ant 4B

Combination	PCC										SCC1				SCC2				SCC3				SCC4				Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)
CA_41C-41A	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	14.69	14.70
CA_41D	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	-	-	-	-	-	-	-	-	14.67	14.70
CA_41E	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	LTE B41	20	41016	2632.6	-	-	-	-	14.64	14.70
CA_41C-41C	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	14.66	14.70
CA_41D-41A	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	LTE B41	20	41490	2680	-	-	-	-	14.63	14.70
CA_41C-41D	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.67	14.70
CA_41D-41C	LTE B41	20	40620	2593	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	LTE B41	20	40818	2612.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.66	14.70

1.5.2 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA CA_41C or ULCA CA_7C.

1.5.2.1 LTE Band 41

Table 97
Reduced Output Powers – Ant 2A

Combination	PCC										SCC1						SCC2				SCC3				Power			
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)
CA_41C1-1	LTE B41	20	40620	2593	QPSK	50	0	4x4 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.78	14.76
CA_41C1-41A1	LTE B41	20	40620	2593	QPSK	50	0	2x2 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	14.80	14.76
CA_41C1-41A1	LTE B41	20	40620	2593	QPSK	50	0	4x4 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.75	14.76
CA_41D1-41A1	LTE B41	20	40620	2593	QPSK	50	0	2x2 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	2x2 MIMO	LTE B41	20	40224	2553.4	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	14.77	14.76

Table 98
Reduced Output Powers – Ant 2B

Combination	PCC										SCC1						SCC2						SCC3						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)		
CA_41C1-1	LTE B41	20	40185	2549.5	QPSK	1	0	4x4 MIMO	LTE B41	20	39987	2529.7	QPSK	1	99	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.21	14.07		
CA_41C1-41A	LTE B41	20	40185	2549.5	QPSK	1	0	2x2 MIMO	LTE B41	20	39987	2529.7	QPSK	1	99	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	14.15	14.07		
CA_41C1-41A	LTE B41	20	40185	2549.5	QPSK	1	0	4x4 MIMO	LTE B41	20	39987	2529.7	QPSK	1	99	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.19	14.07		
CA_41D1-41A	LTE B41	20	40185	2549.5	QPSK	1	0	2x2 MIMO	LTE B41	20	39987	2529.7	QPSK	1	99	2x2 MIMO	LTE B41	20	40383	2569.3	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	14.16	14.07		

Table 99
Reduced Output Powers – Ant 4A

Combination	PCC										SCC1						SCC2						SCC3						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA configuration active in DL (dBm)	ULCA Tx Power (dBm)		
CA_41C1-11	LTE B41	20	40185	2549.5	QPSK	50	0	4x4 MIMO	LTE B41	20	39987	2529.7	QPSK	50	50	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.27	14.08		
CA_41C1-41A1	LTE B41	20	40185	2549.5	QPSK	50	0	2x2 MIMO	LTE B41	20	39987	2529.7	QPSK	50	50	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	14.29	14.08		
CA_41C1-41A1	LTE B41	20	40185	2549.5	QPSK	50	0	4x4 MIMO	LTE B41	20	39987	2529.7	QPSK	50	50	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.28	14.08		
CA_41D1-41A1	LTE B41	20	40185	2549.5	QPSK	50	0	2x2 MIMO	LTE B41	20	39987	2529.7	QPSK	50	50	2x2 MIMO	LTE B41	20	40383	2569.3	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	14.26	14.08		

Table 100
Reduced Output Powers – Ant 4B

Combination	PCC										SCC1						SCC2				SCC3				Power			
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC DL Frequency [MHz]	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)		
CA_41C1-11	LTE B41	20	40620	2593	QPSK	50	0	4x4 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.67	14.70	
CA_41C1-41A1	LTE B41	20	40620	2593	QPSK	50	0	2x2 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	14.69	14.70
CA_41C1-41A1	LTE B41	20	40620	2593	QPSK	50	0	4x4 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	14.66	14.70
CA_41D1-41A1	LTE B41	20	40620	2593	QPSK	50	0	2x2 MIMO	LTE B41	20	40422	2573.2	QPSK	50	50	2x2 MIMO	LTE B41	20	40818	2612.8	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	14.68	14.70

FCC ID: BCGA1934		SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device		APPENDIX H: Page 36 of 37

1.5.2.2 LTE Band 7

Table 101
Reduced Output Powers – Ant 2A

	PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dbm)	ULCA Tx. Power (dbm)
CA_7C (1)	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	4x4 MIMO	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	4x4 MIMO	11.99	12.00

Table 102
Reduced Output Powers – Ant 2B

	PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)
CA_7C (1)	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	1	0	4x4 MIMO	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	1	99	4x4 MIMO	12.30	12.27

Table 103
Reduced Output Powers – Ant 4A

	PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dBm)	ULCA Tx. Power (dBm)
CA_7C (1)	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	50	0	4x4 MIMO	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	50	50	4x4 MIMO	11.82	11.89

Table 104
Reduced Output Powers – Ant 4B

	PCC										SCC							Power				
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	DL Ant. Config.	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL RB	SCC UL RB Offset	DL Ant. Config.	ULCA Tx. Power with add'l CA configuration active in DL (dbm)	ULCA Tx. Power (dbm)
CA_7C (1)	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	4x4 MIMO	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	4x4 MIMO	11.86	12.00

FCC ID: BCGA1934	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 1C1806220015-01.BCG	DUT Type: Tablet Device		APPENDIX H: Page 37 of 37