

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

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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.

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s p e a g

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Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MSL750V2)
Product No.	SL AAM 075 AA (Batch: 170608-1)
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 ± 3)°C and humidity < 70%.
TSL Temperature	22°C
Test Date	20-Jun-17
Operator	CL

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	57.3	25.02	0.84	56.1	0.95	2.2	-12.2
625	57.1	24.67	0.86	56.0	0.95	1.9	-10.1
650	56.8	24.32	0.88	55.9	0.96	1.6	-8.0
675	56.6	24.02	0.90	55.8	0.96	1.3	-5.8
700	56.3	23.71	0.92	55.7	0.96	1.1	-3.8
725	56.1	23.48	0.95	55.6	0.96	0.8	-1.5
750	55.9	23.25	0.97	55.5	0.96	0.6	0.7
775	55.6	23.04	0.99	55.4	0.97	0.3	2.9
800	55.4	22.82	1.02	55.3	0.97	0.1	5.0
825	55.2	22.65	1.04	55.2	0.98	-0.1	6.3
838	55.1	22.56	1.05	55.2	0.98	-0.3	6.9
850	54.9	22.47	1.06	55.2	0.99	-0.4	7.5
875	54.7	22.34	1.09	55.1	1.02	-0.7	6.7
900	54.5	22.21	1.11	55.0	1.05	-0.9	5.9
925	54.3	22.08	1.14	55.0	1.06	-1.3	6.9
950	54.1	21.95	1.16	54.9	1.08	-1.6	7.9
975	53.8	21.86	1.19	54.9	1.09	-1.9	9.1
1000	53.6	21.76	1.21	54.8	1.10	-2.2	10.2

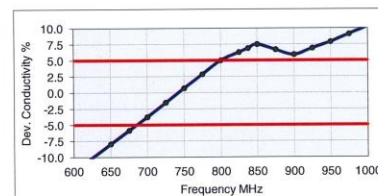
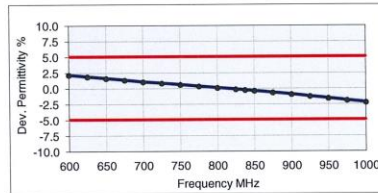


Figure D-2

750MHz Body Tissue Equivalent Matter

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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
AM4	750	9/15/2018	7416	EX3DV4	750	Body	0.960	54.683	PASS	PASS	PASS	N/A	N/A	N/A
AM8	835	6/19/2018	3287	ES3DV3	835	Body	0.932	54.849	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
AM6	1900	4/3/2018	3131	ES3DV3	1900	Body	1.555	51.277	PASS	PASS	PASS	GMSK	PASS	N/A
AM1	1900	7/11/2018	3275	ES3DV3	1900	Body	1.565	51.519	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
AM2	2450	7/2/2018	3022	ES3DV2	2450	Body	2.034	52.592	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
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
AM2	2600	7/3/2018	3022	ES3DV2	2600	Body	2.177	52.355	PASS	PASS	PASS	TDD	PASS	N/A
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.

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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 Scenario Maximum Allowed Target Power [dBm]	Reduced Scenario Maximum Allowed Target Power [dBm]	Conducted Power [dBm]			Verdict
			Maximum	Test Case 1	Test Case 2	
GPRS 850 (2 Tx)	28.50 (± 0.75)	26.45 (± 0.75)	28.98	26.25	26.13	PASS
GPRS 1900 (2 Tx)	28.50 (± 0.75)	19.65 (± 0.75)	28.21	19.55	18.62	PASS
WCDMA B5	25.00 (± 0.50)	20.90 (± 0.50)	24.72	20.81	20.95	PASS
WCDMA B4	24.00 (± 0.50)	14.50 (± 0.50)	24.22	14.13	13.98	PASS
WCDMA B2	24.00 (± 0.50)	14.90 (± 0.50)	24.40	15.16	15.23	PASS
LTE Band 12	23.25 (± 0.50)	19.20 (± 0.50)	23.03	18.95	18.87	PASS
LTE Band 17	23.25 (± 0.50)	19.20 (± 0.50)	23.10	19.13	18.99	PASS
LTE Band 14	25.00 (± 0.50)	21.70 (± 0.50)	25.00	21.70	21.74	PASS
LTE Band 13	25.00 (± 0.50)	21.70 (± 0.50)	25.22	21.56	21.50	PASS
LTE Band 5	23.25 (± 0.50)	20.30 (± 0.50)	23.41	20.40	20.26	PASS
LTE Band 26	23.25 (± 0.50)	20.30 (± 0.50)	23.50	20.22	20.21	PASS
LTE Band 4	22.00 (± 0.50)	14.50 (± 0.50)	21.70	14.13	14.01	PASS
LTE Band 66	22.00 (± 0.50)	14.50 (± 0.50)	21.98	14.20	14.30	PASS
LTE Band 2	25.00 (± 0.50)	14.00 (± 0.50)	24.81	14.20	14.11	PASS
LTE Band 25	25.00 (± 0.50)	14.00 (± 0.50)	24.99	13.89	13.84	PASS
LTE Band 30	21.50 (± 0.50)	12.80 (± 0.50)	21.78	13.21	13.11	PASS
LTE Band 7	21.75 (± 0.50)	12.50 (± 0.50)	21.62	12.40	12.33	PASS
LTE Band 41	25.00 (± 0.50)	16.80 (± 0.50)	25.00	16.77	16.62	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.

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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

Table 1 - Example 1										Table 2 - Example 2									
Index		ZCC		Approved Change Estimated (\$K)	Revisions	Completely Covered by Measurement Support	Index		ZCC	Revisions	Completely Covered by Measurement Support	Index		ZCC	Approved Change Estimated (\$K)	Revisions	Completely Covered by Measurement Support		
		CC1	CC2																
CC#1	CC#2	1	1	1,000,000	1,000,000	CC#1-46	CC#1-47	CC#1-48	CC#1-49	CC#1-50	CC#1-51	CC#1-52	CC#1-53	CC#1-54	CC#1-55	CC#1-56	CC#1-57	CC#1-58	
CC#1-46	CC#1-47	1,000,000	1,000,000	CC#1-46	CC#1-47	1,000,000	CC#1-48	CC#1-49	1,000,000	CC#1-50	CC#1-51	1,000,000	CC#1-52	CC#1-53	1,000,000	CC#1-54	CC#1-55	1,000,000	
CC#1-48	CC#1-49	1,000,000	1,000,000	CC#1-48	CC#1-49	1,000,000	CC#1-50	CC#1-51	1,000,000	CC#1-52	CC#1-53	1,000,000	CC#1-54	CC#1-55	1,000,000	CC#1-56	CC#1-57	1,000,000	
CC#1-50	CC#1-51	1,000,000	1,000,000	CC#1-50	CC#1-51	1,000,000	CC#1-52	CC#1-53	1,000,000	CC#1-54	CC#1-55	1,000,000	CC#1-56	CC#1-57	1,000,000	CC#1-58	CC#1-59	1,000,000	
CC#1-52	CC#1-53	1,000,000	1,000,000	CC#1-52	CC#1-53	1,000,000	CC#1-54	CC#1-55	1,000,000	CC#1-56	CC#1-57	1,000,000	CC#1-58	CC#1-59	1,000,000	CC#1-60	CC#1-61	1,000,000	
CC#1-54	CC#1-55	1,000,000	1,000,000	CC#1-54	CC#1-55	1,000,000	CC#1-56	CC#1-57	1,000,000	CC#1-58	CC#1-59	1,000,000	CC#1-60	CC#1-61	1,000,000	CC#1-62	CC#1-63	1,000,000	
CC#1-56	CC#1-57	1,000,000	1,000,000	CC#1-56	CC#1-57	1,000,000	CC#1-58	CC#1-59	1,000,000	CC#1-60	CC#1-61	1,000,000	CC#1-62	CC#1-63	1,000,000	CC#1-64	CC#1-65	1,000,000	
CC#1-58	CC#1-59	1,000,000	1,000,000	CC#1-58	CC#1-59	1,000,000	CC#1-60	CC#1-61	1,000,000	CC#1-62	CC#1-63	1,000,000	CC#1-64	CC#1-65	1,000,000	CC#1-66	CC#1-67	1,000,000	
CC#1-60	CC#1-61	1,000,000	1,000,000	CC#1-60	CC#1-61	1,000,000	CC#1-62	CC#1-63	1,000,000	CC#1-64	CC#1-65	1,000,000	CC#1-66	CC#1-67	1,000,000	CC#1-68	CC#1-69	1,000,000	
CC#1-62	CC#1-63	1,000,000	1,000,000	CC#1-62	CC#1-63	1,000,000	CC#1-64	CC#1-65	1,000,000	CC#1-66	CC#1-67	1,000,000	CC#1-68	CC#1-69	1,000,000	CC#1-70	CC#1-71	1,000,000	
CC#1-64	CC#1-65	1,000,000	1,000,000	CC#1-64	CC#1-65	1,000,000	CC#1-66	CC#1-67	1,000,000	CC#1-68	CC#1-69	1,000,000	CC#1-70	CC#1-71	1,000,000	CC#1-72	CC#1-73	1,000,000	
CC#1-66	CC#1-67	1,000,000	1,000,000	CC#1-66	CC#1-67	1,000,000	CC#1-68	CC#1-69	1,000,000	CC#1-70	CC#1-71	1,000,000	CC#1-72	CC#1-73	1,000,000	CC#1-74	CC#1-75	1,000,000	
CC#1-68	CC#1-69	1,000,000	1,000,000	CC#1-68	CC#1-69	1,000,000	CC#1-70	CC#1-71	1,000,000	CC#1-72	CC#1-73	1,000,000	CC#1-74	CC#1-75	1,000,000	CC#1-76	CC#1-77	1,000,000	
CC#1-70	CC#1-71	1,000,000	1,000,000	CC#1-70	CC#1-71	1,000,000	CC#1-72	CC#1-73	1,000,000	CC#1-74	CC#1-75	1,000,000	CC#1-76	CC#1-77	1,000,000	CC#1-78	CC#1-79	1,000,000	
CC#1-72	CC#1-73	1,000,000	1,000,000	CC#1-72	CC#1-73	1,000,000	CC#1-74	CC#1-75	1,000,000	CC#1-76	CC#1-77	1,000,000	CC#1-78	CC#1-79	1,000,000	CC#1-80	CC#1-81		

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

Table 2: Example of Existing Channels for 100 MHz Channel Configurations																	
Index		Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset	Index		Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset	Index		Supported Channel Bandwidth (MHz)		Restriction	Completely Covered by Measurement Superset
	CC	CC1	CC2				CC	CC1	CC2			CC3		CC	CC1		
CC#RM1	CA [2C]	5.10, 15, 20	5.10, 15, 20	CC#RM6	No	CC#RM1	CA [2A]-[2A-66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No	CC#RM16	CA [2A]-[8A]-[66A]	5.10, 15, 20	5.10, 15, 20	No	No
CC#RM2	CA [2A]-[2A]	5.10, 15, 20	5.10, 15, 20	CC#RM6	No	CC#RM2	CA [2A]-[2A-51A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No	CC#RM17	CA [2A]-[8A]-[66A]	5.10, 15, 20	5.10, 15, 20	No	No
CC#RM3	CA [2A]-[2A]	5.10, 15, 20	5.10, 15, 20	No	No	CC#RM3	CA [2A]-[2A-12A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No	CC#RM18	CA [2A]-[2A]-[66A]	5.10, 15, 20	5.10, 15, 20	No	No
CC#RM4	CA [2A]-[4A-82]	5.10, 15, 20	5.10, 15, 20	CC#RM1	No	CC#RM4	CA [2A]-[2A]-[13A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No	CC#RM19	CA [2A]-[2A]-[66B]	5.10, 15, 20	5.10, 15, 20	No	No
CC#RM5	CA [2A]-[10A]	5.10, 15, 20	5.10, 15, 20	CC#RM5	No	CC#RM5	CA [2A]-[2A]-[26A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No	CC#RM20	CA [2A]-[2A]-[66A]	5.10, 15, 20	5.10, 15, 20	No	No
CC#RM6	CA [2A]-[5A]	5.10, 15, 20	5.10, 15, 20	CC#RM3	No	CC#RM6	CA [2C]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No	CC#RM21	CA [2A]-[5A]-[66C]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No
CC#RM7	CA [2A]-[2A-12A]	5.10, 15, 20	5.10, 15, 20	No	No	CC#RM7	CA [2C]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM8	CA [2A]-[2A]	5.10, 15, 20	5.10, 15, 20	CC#RM6	No	CC#RM8	CA [2C]-[166A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM9	CA [2A]-[17A]	5.10, 15, 20	5.10, 15, 20	No	No	CC#RM9	CA [2A]-[2A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM10	CA [2A]-[29A]	5.10, 20	5.10, 20	B29 SCF only	CC#RM12	CC#RM10	CA [2A]-[2A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM11	CA [2A]-[29A]	5.10, 15, 20	5.10, 15, 20	CC#RM6	No	CC#RM11	CA [2A]-[13A]-[17A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM12	CA [2A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM1	No	CC#RM12	CA [2A]-[4A]-[29A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	B29 SCF only						
CC#RM13	CA [2A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM2	No	CC#RM13	CA [2A]-[4A]-[71A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM14	CA [2A]-[13A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM15	No	CC#RM14	CA [2A]-[58]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM15						
CC#RM15	CA [2A]-[71A]	5.10, 15, 20	5.10, 15, 20	CC#RM11	No	CC#RM15	CA [2A]-[5A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM16	CA [5A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM16	No	CC#RM16	CA [2A]-[5A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM17	CA [2A]-[2A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM17	No	CC#RM17	CA [2A]-[2A]-[13A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM18	CA [13A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM18	No	CC#RM18	CA [2A]-[13A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM19	CA [30A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM20	No	CC#RM19	CA [2A]-[13A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM20	CA [66A]	5.10, 15, 20	5.10, 15, 20	CC#RM4	No	CC#RM20	CA [2A]-[66A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	No						
CC#RM21	CA [66C]	5.10, 15, 20	5.10, 15, 20	CC#RM6	No	CC#RM21	CA [2A]-[66B]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM21						
CC#RM22	CA [66A]-[66A]	5.10, 15, 20	5.10, 15, 20	CC#RM28	No	CC#RM22	CA [2A]-[66B]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
CC#RM23	CA [66A]-[66A]	5.10, 15, 20	5.10, 15, 20	No	No	CC#RM23	CA [2A]-[166B]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
						CC#RM24	CA [2A]-[66C]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
						CC#RM25	CA [2A]-[66C]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
						CC#RM26	CA [2A]-[166C]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
						CC#RM27	CA [2A]-[66A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
						CC#RM28	CA [2A]-[66A]-[66A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						
						CC#RM29	CA [2A]-[66A]-[71A]	5.10, 15, 20	5.10, 15, 20	5.10, 15, 20	CC#RM28						

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

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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.

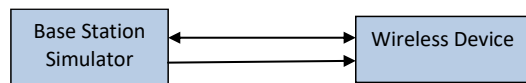


Figure 1
DL CA Power Measurement Setup

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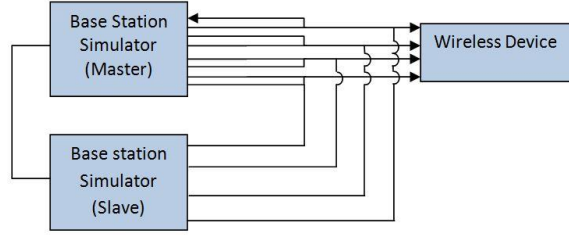


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 12 as PCC

Table 1
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 Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 2A-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	19.68	19.70
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	19.68	19.70
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	19.68	19.70
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	19.69	19.70
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	19.69	19.70
CA 2C-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	19.66	19.70
CA 4A-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	19.64	19.70
CA 2A-12A-12B	LTE B12	5	23035	701.5	64QAM	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B2	20	700	1940	19.65	19.70
CA 2A-2A-4A-12A	LTE B12	10	23095	707.5	QPSK	25	0	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-4A-12A	LTE B12	10	23095	707.5	QPSK	25	0	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-2A-12B	LTE B12	5	23035	701.5	64QAM	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	19.63	19.70
CA 2A-2A-12A-30A	LTE B12	10	23095	707.5	QPSK	25	0	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	25	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	19.67	19.70
CA 2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	25	0	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	25	0	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	19.67	19.70
CA 2A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	19.60	19.70
CA 2A-4A-12A-66A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	19.67	19.70
CA 4A-4A-12B	LTE B12	5	23035	701.5	64QAM	1	24	5035	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	19.63	19.70
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	19.64	19.70
CA 12A-30A-66A-66A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.65	19.70

Table 2
Output Powers – Ant 3

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 Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 2A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	21.69	21.70
CA 4A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.70	21.70
CA 4A-12A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	21.70	21.70
CA 12A-66A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	21.69	21.70
CA 12A-66A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	21.69	21.70
CA 2C-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	21.65	21.70
CA 4A-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B7	20	3100	2655	-	-	-	-	21.68	21.70
CA 2A-2A-12B	LTE B12	5	23035	707.5	QPSK	1	24	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1960	LTE B2	20	700	1940	21.64	21.70
CA 2A-2A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	21.66	21.70
CA 2A-4A-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	21.66	21.70
CA 2A-4A-12B	LTE B12	5	23035	707.5	QPSK	1	24	5095	737.5	LTE B12	5	5047	732.7	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	21.65	21.70
CA 2A-2A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	21.61	21.70
CA 2A-2A-12A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	21.62	21.70
CA 2A-12A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.61	21.70
CA 2A-12A-66C	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	21.64	21.70
CA 2A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	9820	2355	21.68	21.70
CA 2A-12A-30A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	21.66	21.70
CA 4A-4A-12B	LTE B12	5	23035	707.5	QPSK	1	24	5095	737.5	LTE B12	5	5047	732.7	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	21.64	21.70
CA 4A-4A-12A-30A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	LTE B30	10	9820	2355	21.67	21.70
CA 12A-30A-66A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.68	21.70

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1.3.2 LTE Band 17 as PCC

Table 3
Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC						SCC 1				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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_2A-17A	LTE B17	10	23790	710	QPSK	25	0	5790	740	LTE B2	10	900	1960	19.68	19.70
CA_4A-17A	LTE B17	10	23790	710	QPSK	25	0	5790	740	LTE B4	10	2175	2132.5	19.69	19.70

Table 4
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC						SCC 1				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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_2A-17A	LTE B17	10	23790	710	QPSK	1	0	5790	740	LTE B2	10	900	1960	21.70	21.70
CA_4A-17A	LTE B17	10	23790	710	QPSK	1	0	5790	740	LTE B4	10	2175	2132.5	21.70	21.70

1.3.3 LTE Band 13 as PCC

Table 5
Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC						SCC 1				SCC 2				SCC 3				SCC 4				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]	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-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	23.22	23.35
CA_2A-13A-4A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	5065	5537.5	-	-	-	-	-	-	-	-	23.18	23.35
CA_4A-4A-13A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	20	2350	2350	-	-	-	-	-	-	-	-	23.45	23.35
CA_13A-4A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	5065	5537.5	LTE B6	20	6678	2145	-	-	-	-	-	-	-	-	23.42	23.35
CA_2A-13A-4A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	-	-	-	-	23.22	23.35
CA_2A-2A-13A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B6	20	6678	2145	-	-	-	-	23.41	23.35
CA_2A-13A-6A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B6	20	6678	2145	LTE B6	20	6736	2190	-	-	-	-	23.44	23.35
CA_2A-13A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B6	15	6678	2145	LTE B6	5	6678	2145	-	-	-	-	23.35	23.35
CA_2A-13A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B6	20	6678	2145	LTE B6	20	6678	2145	-	-	-	-	23.40	23.35
CA_13A-6A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B6	20	6678	2145	LTE B6	5	6736	2190	LTE B6	15	6736	2190	-	-	-	-	23.48	23.35
CA_13A-6A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B6	20	6678	2145	LTE B6	20	6736	2190	LTE B6	20	6736	2190	-	-	-	-	23.50	23.35
CA_13A-4A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B6	20	5065	5537.5	LTE B6	20	5067	5517.7	LTE B6	20	6678	2145	-	-	-	-	23.41	23.35
CA_2A-13A-4A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B2	20	900	1960	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	LTE B4	20	5065	5537.5	23.41	23.35
CA_13A-4A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	LTE B4	20	5063	5557.3	LTE B4	20	5069	5497.9	23.31	23.35
CA_13A-4A-6A	LTE B13	10	23230	782	QPSK	1	0	5230	751	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	LTE B4	20	5063	5557.3	LTE B4	20	6678	2145	23.31	23.35

Table 6
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC						SCC 1				SCC 2				SCC 3				SCC 4				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]	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-13A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	23.11	23.20
CA_2A-13A-4A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B4	20	5065	5537.5	-	-	-	-	-	-	-	-	22.11	22.20
CA_4A-4A-13A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B4	20	2175	2132.5	LTE B4	20	2350	2350	-	-	-	-	-	-	-	-	22.11	22.20
CA_13A-4A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B4	20	5065	5537.5	LTE B6	20	6678	2145	-	-	-	-	-	-	-	-	22.17	22.20
CA_2A-13A-4A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	-	-	-	-	22.14	22.20
CA_2A-13A-6A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B6	20	700	1940	LTE B6	20	6678	2145	-	-	-	-	22.15	22.20
CA_2A-13A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B6	20	6678	2145	LTE B6	20	6736	2190	-	-	-	-	22.11	22.20
CA_2A-13A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B6	15	6678	2145	LTE B6	5	6678	2145	-	-	-	-	23.13	22.20
CA_2A-13A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B6	20	6678	2145	LTE B6	20	6678	2145	-	-	-	-	22.14	22.20
CA_13A-6A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B6	20	6678	2145	LTE B6	5	6736	2190	LTE B6	15	6736	2190	-	-	-	-	23.48	22.20
CA_13A-6A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B6	20	6678	2145	LTE B6	20	6736	2190	LTE B6	20	6736	2190	-	-	-	-	22.15	22.20
CA_13A-4A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B6	20	5065	5537.5	LTE B6	20	5067	5517.7	LTE B6	20	6678	2145	-	-	-	-	22.46	22.20
CA_2A-13A-4A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B2	20	900	1960	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	LTE B4	20	5063	5557.3	22.14	22.20
CA_13A-4A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	LTE B4	20	5063	5557.3	LTE B4	20	5069	5497.9	22.13	22.20
CA_13A-4A-6A	LTE B13	10	23230	782	QPSK	25	25	5230	751	LTE B4	20	5065	5537.5	LTE B4	20	5067	5517.7	LTE B4	20	5063	5557.3	LTE B4	20	6678	2145	22.10	22.20

1.3.4 LTE Band 14 as PCC

Table 7
Output Powers – Ant 1

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	6678	2145	23.51	23.60
CA_2A-14A-66A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B66	20	6678	2145	LTE B66	20	6736	2190	23.55	23.60
CA_2A-14A-3A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	6678	2145	23.51	23.60
CA_14A-3A-66A-66A	LTE B14	10	23330	793	QPSK	1	0	5330	763	LTE B30	10	9820	2355	LTE B66	20	6678	2145	LTE B66	20	6736	2190	23.55	23.60

Table 8
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	25	0	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	22.11	22.20
CA_2A-14A-66A	LTE B14	10	23330	793	QPSK	25	0	5330	763	LTE B2	20	900	1960	LTE B66	20	700	2145	LTE B66	20	66736	2145	22.11	22.20
CA_2A-14A-30A-66A	LTE B14	10	23330	793	QPSK	25	0	5330	763	LTE B2	20	900	1960	LTE B30	10	9820	2355	LTE B66	20	66786	2145	22.13	22.20
CA_14A-30A-66A-66A	LTE B14	10	23330	793	QPSK	25	0	5330	763	LTE B30	10	9820	2360	LTE B66	20	66786	2145	LTE B66	20	67236	2145	22.13	22.20

1.3.5 LTE Band 5 as PCC

Table 9
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 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]	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 B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.80	20.79		
CA_5A-25A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B25	20	8365	192.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.69	20.79	
CA_5A-41A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.77	20.79	
CA_5A-66A (1)	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.74	20.79	
CA_2C-5A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	20.69	20.79
CA_5A-66C (1)	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.77	20.79	
CA_2A-2A-4A-5A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	20.68	20.79
CA_2A-4A-5A-30A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	20.77	20.79
CA_2A-2A-5A-30A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	-	-	20.80	20.79
CA_2A-2A-5A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.77	20.79
CA_2A-5A-66A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.69	20.79
CA_2A-4A-5A-30A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	-	-	20.80	20.79
CA_2A-5A-66A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B30	10	8620	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.80	20.79
CA_4A-4A-5A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	20.80	20.79
CA_4A-4A-5A-30A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B30	10	8620	2355	-	-	-	-	-	-	-	-	-	-	-	20.78	20.79
CA_5A-66D (1)	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	LTE B46	20	50663	5557.3	-	-	-	-	-	-	-	-	-	-	-	20.68	20.79
CA_5A-66E (1)	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50666	5547.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.68	20.79
CA_5A-66A-66B	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B66	20	66786	2145	LTE B66	5	67261	2183.2	LTE B66	15	67261	2192.5	-	-	-	-	-	-	-	-	-	-	-	20.70	20.79
CA_5A-66A-66C	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	-	-	-	20.69	20.79
CA_5A-30A-66A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B30	10	8620	2355	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.80	20.79
CA_2A-2A-5A-66B	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	15	66879	2154.3	-	-	-	-	-	-	-	-	-	-	-	20.71	20.79
CA_2A-2A-5A-66C	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.73	20.79
CA_2A-5B-66A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.72	20.79
CA_2A-5B-66C	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.71	20.79
CA_2A-5B-30A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	8620	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.73	20.79
CA_5B-30A-66A-66A	LTE B5	10	20525	836.5	QPSK	25	0	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	8620	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	20.70	20.79

Table 10
Output Powers – Ant 3

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 DC CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA_5A-7A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	21.40	21.40	
CA_5A-25A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B25	20	8365	192.5	-	-	-	-	-	-	-	-	-	-	-	21.40	21.40	
CA_5A-41A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	-	-	-	21.38	21.40	
CA_5A-66A (1)	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	21.40	21.40	
CA_2C-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	21.13	21.40
CA_5A-66C (1)	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	-	-	-	-	-	-	-	21.17	21.40	
CA_2A-2A-4A-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	21.16	21.40
CA_2A-4A-5A-30A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	21.40	21.40
CA_2A-2A-5A-30A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	8620	2355	-	-	-	-	21.23	21.40
CA_2A-2A-5A-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	21.19	21.40
CA_2A-5A-66A-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	21.14	21.40
CA_2A-5A-66A-66B	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	21.23	21.40
CA_2A-5A-66A-66C	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	21.27	21.40
CA_4A-4A-5A-30A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	-	-	-	-	21.17	21.40
CA_4A-4A-5A-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B46	20	66786	2145	LTE B46	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	21.20	21.40
CA_5A-66D (1)	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B46	20	66786	2145	LTE B46	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	21.21	21.40
CA_5A-66E (1)	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B46	20	66786	2145	LTE B46	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	21.14	21.40
CA_5A-66A-66B	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B66	20	66786	2145	LTE B66	5	67261	2183.2	LTE B66	15	67261	2192.5	-	-	-	-	21.16	21.40
CA_5A-66A-66C	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67038	2170.2	LTE B66	20	67236	2190	-	-	-	-	21.21	21.40
CA_5A-30A-66A-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B30	10	8620	2355	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	21.13	21.40
CA_2A-2A-5A-66B	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	15	66879	2154.3	-	-	-	-	21.14	21.40
CA_2A-2A-5A-66C	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	21.08	21.40
CA_2A-5A-66B-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	21.09	21.40
CA_2A-5B-66C	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	-	-	-	21.10	21.40
CA_2A-5B-66C	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B5	5	2453	874.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	-	-	-	-	21.07	21.40
CA_2A-5B-66A-66C	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	8620	2355	LTE B66	20	66786	2145	-	-	-	-	21.09	21.40

1.3.7 LTE Band 4 as PCC

Table 13
Output Powers – Ant 2A

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)			
				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	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	-	-	-	-	-	14.95	15.00			
CA 4A-12A (1)	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	10	5095	737.5	-	-	-	-	-	14.96	15.00			
CA 4A-12A (2)	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	10	5095	737.5	-	-	-	-	-	14.96	15.00			
CA 4A-17A	LTE B4	10	20000	1715	16QAM	1	0	2000	2115	LTE B17	10	5790	740	-	-	-	-	-	14.98	15.00			
CA 4A-29A	LTE B4	10	20000	1715	16QAM	1	0	2000	2115	LTE B29	10	9715	722.5	-	-	-	-	-	14.98	15.00			
CA 2A-4A-13A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B13	10	5230	751	-	14.99	15.00			
CA 4A-4A-7A (1)	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B7	20	3100	2655	-	14.94	15.00			
CA 4A-7A-7A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B7	20	3100	2655	LTE B7	20	2850	2630	-	14.99	15.00			
CA 4A-4A-13A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B13	10	5230	751	-	14.99	15.00			
CA 4A-4A-29A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B29	10	9715	722.5	-	14.90	15.00			
CA 4A-4A-46A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B46	20	50665	5337.5	LTE B46	20	47990	5180	-	14.92	15.00			
CA 4A-7A-12A (1)	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B7	20	3100	2655	LTE B12	10	9020	2355	-	14.90	15.00			
CA 2A-2A-4A-4A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B2	20	900	1960	LTE B2	20	700	1940	14.96	15.00
CA 2A-2A-4A-5A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	14.99	15.00
CA 2A-4A-4A-5A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B2	20	900	1960	LTE B5	10	2525	881.5	14.99	15.00
CA 2A-4A-5A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	10	2463	874.3	14.96	15.00
CA 2A-2A-4A-12A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B12	10	9020	2355	-	14.92	15.00			
CA 2A-4A-4A-12A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B12	10	9020	2355	-	14.99	15.00			
CA 2A-4A-12B	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B12	10	9020	2355	-	14.98	15.00			
CA 2A-4A-12A-30A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	14.98	15.00
CA 2A-4A-12A-30A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B12	10	9020	2355	-	14.99	15.00			
CA 2A-4A-29A-30A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	14.98	15.00
CA 4A-4A-5B	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B5	10	2525	881.5	LTE B5	10	2463	874.3	14.98	15.00
CA 4A-4A-12B	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B12	10	9020	2355	-	14.99	15.00			
CA 4A-4A-46C	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B46	20	50665	5337.5	LTE B46	20	50667	5317.7	LTE B46	20	53140	5825	14.92	15.00
CA 4A-4A-5A-30A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	14.91	15.00
CA 4A-4A-12A-30A	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B4	10	2000	2115	LTE B12	10	9020	2355	-	14.90	15.00			
CA 4A-4A-46D	LTE B4	20	20375	1732.5	QPSK	1	0	2175	2132.5	LTE B46	20	50665	5337.5	LTE B46	20	53144	5785.4	LTE B46	20	53142	5805.2	14.98	15.00

Table 14
Output Powers – Ant 2B

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 Carrier Tx Power (dBm)	LTE Single Carrier Tx Power (dBm)							
				PCC (UL) Freq. [MHz]	PCC (UL) RB						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	1	0	2050	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CA 4A-12A (1)	LTE B4	20	20000	1720	QPSK	1	0	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CA 4A-12A (2)	LTE B4	20	20000	1720	QPSK	1	0	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CA 4A-17A	LTE B4	10	20000	1715	16QAM	1	49	2000	2115	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CA 4A-29A	LTE B4	10	20000	1715	16QAM	1	49	2000	2115	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CA 2A-4A-13A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 2A-4A-7A (1)	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B7	20	68761	634.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-7A-7A (1)	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2145	118.67	-	-	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-7A-7A (2)	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B7	20	3100	2655	LTE B7	20	2850	2630	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-4A-13A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-4A-29A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-4A-46A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B46	20	50665	5337.5	LTE B46	20	47990	5180	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-7A-12A (1)	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B7	20	3100	2655	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 2A-2A-4A-4A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	-	-	-	-	-	-
CA 2A-2A-4A-5A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-
CA 2A-4A-4A-5A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-
CA 2A-4A-5A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	10	2463	874.3	-	-	-	-	-	-	-	-	-	-
CA 2A-2A-4A-12A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 2A-4A-4A-12A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 2A-4A-5A-30A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	8820	2395	-	-	-	-	-	-	-	-	-	-
CA 2A-4A-12A-30A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	8820	2395	-	-	-	-	-	-	-	-	-	-
CA 2A-4A-29A-30A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	-	-
CA 4A-4A-4A-5A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B5	5	2463	874.3	-	-	-	-	-	-	-	-	-	-
CA 4A-4A-5A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	10	2463	874.3	-	-	-	-	-	-	-	-	-	-
CA 4A-4A-46A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B46	20	50665	5337.5	LTE B46	20	47990	5180	-	-	-	-	-	-	-	-	-	-	-	-	-	
CA 4A-4A-4A-5A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B5	10	2525	881.5	LTE B30	10	8820	2395	-	-	-	-	-	-	-	-	-	-
CA 4A-4A-4A-12A-30A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B4	20	2300	2145	LTE B12	10	5095	737.5	LTE B30	10	8820	2395	-	-	-	-	-	-	-	-	-	-
CA 4A-4A-46A-46A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B46	20	50665	5337.5	LTE B46	20	53444	5795.4	LTE B46	20	53444	5965.7	-	-	-	-	-	-	-	-	-	-
CA 4A-4A-46A-46A	LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B46	20	50665	5337.5	LTE B46	20	53444	5795.4	LTE B46	20	53444	5965.7	-	-	-	-	-	-	-	-	-	-

Table 16
Output Powers – Ant 4B

Combination	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 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 5G CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-66A	LTE B66	20	20050	1720	QPSK	1	0	66336	2120	LTE B62	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	14.46	14.50
CA 4A-12A (1)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00
CA 4A-12A (2)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00
CA 4A-17A	LTE B4	20	20050	1720	QPSK	1	25	2000	2115	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00
CA 4A-20A	LTE B4	20	20050	1715	QPSK	1	25	2000	2115	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00
CA 2A-4A-13A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	15.00	15.00
CA 4A-6A-7A (1)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	14.80	15.00
CA 4A-6A-7A (2)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	15.00	15.00
CA 4A-4A-13A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	14.97	15.00
CA 4A-4A-20A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B29	10	9715	722.5	-	-	-	-	-	-	-	-	14.96	15.00
CA 4A-6A-66A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180	-	-	-	-	-	-	-	-	14.99	15.00
CA 4A-7A-12A (1)	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B7	20	3100	2655	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	15.00	15.00
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	-	-	-	-	14.95	15.00
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 B2	20	700	1940	-	-	-	-	14.95	15.00
CA 2A-4A-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	-	-	-	-	14.93	15.00
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	5	2453	874.3	-	-	-	-	14.94	15.00
CA 2A-2A-4A-12A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	-	14.97	15.00
CA 2A-4A-12A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	14.92	15.00
CA 2A-4A-20A-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	8820	2355	-	-	-	-	14.94	15.00
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	8820	2355	-	-	-	-	14.96	15.00
CA 2A-4A-20A-30A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B30	10	8820	2355	-	-	-	-	14.97	15.00
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 B30	10	8820	2355	-	-	-	-	14.93	15.00
CA 4A-4A-12A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B4	20	2300	2145	LTE B12	5	5095	737.5	LTE B12	5	5047	732.7	-	-	-	-	14.94	15.00
CA 4A-4A-4A-4A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.7	LTE B46	20	53540	5825	-	-	-	-	14.93	15.00
CA 4A-6A-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	8820	2355	-	-	-	-	14.96	15.00
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	8820	2355	-	-	-	-	14.90	15.00
CA 4A-4A-4A-4A-4A	LTE B4	20	20050	1720	QPSK	1	99	2050	2120	LTE B46	20	50665	5537.5	LTE B46	20	53544	5785.4	LTE B46	20	53544	5805.2	-	-	-	-	14.96	15.00

1.3.8 LTE Band 66 as PCC

Table 17
Output Powers – Ant 2A

Combination	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 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 5G CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	-	14.46	14.50	
CA 7A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B7	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	-	14.45	14.50	
CA 12A-66A (1)	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.43	14.50	
CA 12A-66A (2)	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.43	14.50	
CA 2C-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1940.2	-	-	-	-	-	-	-	-	-	14.50	14.50
CA 2A-4A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	14.50	14.50	
CA 13A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B13	10	5230	751	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	14.50	14.50	
CA 20A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B26	20	67336	2190	LTE B26	20	67336	2190	LTE B26	20	67336	2190	-	-	-	-	14.44	14.50	
CA 66A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180	-	-	-	-	-	-	-	-	14.44	14.50	
CA 6A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	66336	2120	LTE B66	20	50665	5537.5	-	-	-	-	-	-	-	-	14.46	14.50	
CA 2A-2A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	67336	2190	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	14.46	14.50	
CA 2A-2A-5A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	14.46	14.50	
CA 2A-2A-12A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	67336	2190	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	14.45	14.50	
CA 2A-12A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	67336	2190	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	14.38	14.50	
CA 2A-12A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	67336	2190	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	14.33	14.50	
CA 2A-2A-13A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	14.43	14.50	
CA 2A-13A-66A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	67336	2190	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	14.44	14.50	
CA 2A-13A-66A	LTE B66	15	132047	1717.5	QPSK	1	0	66511	2117.5	LTE B66	5	66604	2126.8	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	-	14.50	14.50	
CA 2A-13A-66C	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B66	20	67336	2190	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	14.49	14.50	
CA 2A-2A-14A-66A	LTE B66	20	132072	1720	16QAM	1	0	66336	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	-	-	-	-	-	-	-	-	14.50	14.50	
CA 2A-14A-66A-66A	LTE B66	20	132072	1720	16QAM	1</																						

Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC CH Config	PCC				SSC 1				SSC 2				SSC 3				SSC 4				LTE Tx Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
				SSC (UL) Freq. [MHz]	Mod.	PCC LRA RB	PCC UL RB Offset	PCC (UL) Channel	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]	
CA 24.66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960											14.28	14.30		
CA 74.66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B7	20	3100	2655											14.28	14.30		
CA 124.66A(1)	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B12	10	5095	727.5											14.30	14.30		
CA 124.66A(2)	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B12	20	5095	727.5											14.30	14.30		
CA 24.66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1960.2								14.24	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5								14.29	14.30	
CA 134A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B13	10	5230	751	LTE B46	20	50665	5537.5								14.30	14.30	
CA 204A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B8	10	5230	751	LTE B8	10	5230	751	14.30	14.30
CA 46A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180								14.22	14.30	
CA 66A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B66	20	67236	2190	14.30	14.30
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1960.2				14.29	14.30	
CA 24.6A-5A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B2	20	700	1960	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-24.66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B12	10	5095	727.5								14.29	14.30	
CA 24.6A-124A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	727.5				14.26	14.30	
CA 24.6A-124A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	727.5				14.26	14.30	
CA 24.6A-134A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B13	10	5230	751				14.23	14.30	
CA 24.6A-66A	LTE B66	15	132597	1772.5	QPSK	1	36	67061	2172.5	LTE B66	15	66988	2163.2	LTE B2	20	900	1960	LTE B13	10	5230	751				14.29	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B13	10	5230	751				14.29	14.30	
CA 24.6A-144A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763				14.11	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763				14.11	14.30	
CA 24.6A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B2	20	900	1960	LTE B30	10	5230	751				14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5				14.26	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50665	5537.5				14.26	14.30	
CA 24.6A-32A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B12	10	5095	727.5	LTE B30	10	5230	751				14.28	14.30	
CA 24.6A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	5230	751				14.28	14.30	
CA 24.6A-30A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	5230	751				14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190	LTE B66	20	67236	2190	LTE B5	10	2525	881.5	5	2435	874.3	14.28	14.30	
CA 24.6A-66A	LTE B66	20	132072	1720	QPSK	1	0	66336	2120	LTE B66	20	67236	2190														

Output Powers – Ant 4A

Combination	PCC Band	PCC					SSC 1			SSC 2			SSC 3			SSC 4			LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
		PCC BW [MHz]	PCC [MHz]	PCC [UL] Freq. [MHz]	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [UL] Freq. [MHz]	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]		
CA 24-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B82	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 74-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B77	20	1300	2655	-	-	-	-	-	-	-	-	14.98	15.00
CA 12A-66A(1)	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B82	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 13A-66A(1)	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B82	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B82	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B82	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 13A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B82	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 28A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 46A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86	20	132072	1720	QPSK	0	0	66336	2120	LTE B86	20	900	1960	1720	82	700	1960	1720	82	700	1940	14.98	15.00
CA 24A-66A-66A	LTE B86																						

FCC ID: BCGA1895

Test Dates:

09/05/18 – 09/21/18



PCTEST
ENGINEERING LABORATORY, INC.

DUT Type:

Tablet Device

SAR EVALUATION REPORT

Reviewed by:

Quality Manager

APPENDIX H:

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REV 20.05 M

11/15/2017

Table 20
Output Powers – Ant 4B

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 1		SCC Band	SCC 2		SCC Band	SCC 3		SCC Band	SCC 4		Power			
CA 2A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	-	-	-	-	-	-	-	-	-	-	-	14.93	15.00	
CA 2A-74A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	3100	2655	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00	
CA 12A-66A(1)	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00	
CA 12A-66A(2)	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00	
CA 2C-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B2	20	700	1940	LTE B2	20	700	1940	14.95	15.00
CA 2A-46A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	14.98	15.00	
CA 13A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B13	10	5230	751	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	15.00	15.00	
CA 20A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B20	10	9220	2355	-	-	-	-	-	-	-	14.96	15.00	
CA 46A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B46	20	50665	5537.5	LTE B46	20	47090	5180	-	-	-	-	-	-	-	15.00	15.00	
CA 46A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-2A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	14.99	15.00
CA 2A-2A-5A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	14.96	15.00	
CA 2A-5A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B2	20	900	1960	LTE B5	10	2525	881.5	-	-	-	14.92	15.00	
CA 2A-2A-12A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	5095	737.5	-	-	-	14.97	15.00	
CA 2A-12A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	14.90	15.00	
CA 2A-12A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	66734	2139.8	LTE B2	20	900	1960	LTE B12	10	5095	737.5	-	-	-	15.00	15.00	
CA 2A-2A-13A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B13	10	5230	751	-	-	-	14.96	15.00	
CA 2A-13A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 2A-13A-66B	LTE B86	15	132322	1745	GPSS	1	36	66786	2145	LTE B86	5	66693	2135.7	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	14.99	15.00	
CA 2A-13A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	66734	2139.8	LTE B2	20	900	1960	LTE B13	10	5230	751	-	-	-	14.95	15.00	
CA 2A-2A-14A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B14	10	5330	763	-	-	-	14.95	15.00	
CA 2A-14A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B2	20	900	1960	LTE B14	10	5330	763	-	-	-	14.98	15.00	
CA 2A-2A-30A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	9820	2355	-	-	-	14.97	15.00	
CA 2A-46C-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.7	-	-	-	14.94	15.00	
CA 2A-5A-30A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	15.00	15.00	
CA 2A-12A-30A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	14.96	15.00	
CA 2A-14A-30A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B30	10	9820	2355	-	-	-	14.95	15.00	
CA 2A-29A-30A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B2	20	900	1960	LTE B29	10	8715	722.5	LTE B30	10	9820	2355	-	-	-	14.96	15.00	
CA 2A-66D	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	66734	2139.8	LTE B86	20	66692	2139.6	LTE B5	10	2525	881.5	-	-	-	15.00	15.00	
CA 5A-66A-66B	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B5	10	2525	881.5	-	-	-	15.00	15.00	
CA 5A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	14.97	15.00	
CA 5A-30A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	14.98	15.00	
CA 12A-30A-66A-66A	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	20	67236	2190	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.5	LTE B13	10	5230	751	-	-	-	15.00	15.00	
CA 13A-66A-66C	LTE B86	20	132072	1720	GPSS	1	99	66536	2120	LTE B86	5	67488	2183.2	LTE B86	15	67261	2192.										

1.3.9 LTE Band 2 as PCC

Table 21
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (U) Ch.	PCC			PCC (D) Channel	PCC (D) Freq. [MHz]	SCC 1			SCC 2			SCC 3			SCC 4			LTE Tx Power with DR CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
				Mod.	PCC UL RB	PCC UL RB Offset			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-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	-	-	-	-	-	-	-	15.30	15.40	
CA 2A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	15.16	15.40	
CA 2A-17A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	LTE B17	10	5790	740	-	-	-	-	-	-	-	15.39	15.40	
CA 2A-20A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	15.40	15.40	
CA 2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	-	15.30	15.40	
CA 2C-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B5	10	2525	881.5	-	-	-	-	15.33	15.40
CA 2C-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B12	10	5095	737.5	-	-	-	-	15.39	15.40
CA 2C-20A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B20	10	5715	722.5	-	-	-	-	15.30	15.40
CA 2A-2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B46	20	50665	5537.5	-	-	-	-	15.16	15.40
CA 2A-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B46	20	898	1959.8	LTE B46	20	47090	5180	-	-	-	-	15.26	15.40
CA 2C-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B66	20	66786	2145	-	-	-	-	15.38	15.40
CA 2A-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B12	10	5230	751	-	-	-	-	15.31	15.40
CA 2A-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5230	751	LTE B46	20	50665	5537.5	-	-	-	-	15.40	15.40
CA 2A-4A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	15.32	15.40
CA 2A-2A-4A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B4	20	2175	2182.5	LTE B4	10	2525	881.5	15.31	15.40
CA 2A-2A-12B	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B12	5	5095	737.5	LTE B12	5	5047	737.5	15.36	15.40
CA 2A-2A-46C	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.5	15.40	15.40
CA 2A-4A-46C	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.5	LTE B46	20	53450	5825	15.40	15.40
CA 2A-2A-66A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B66	20	66786	2145	LTE B66	20	67236	2190	15.33	15.40
CA 2A-2A-4A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B46	20	1100	1980	LTE B4	20	2175	2182.5	LTE B4	10	2525	881.5	15.16	15.40
CA 2A-4A-4A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B4	20	2350	2150	LTE B5	10	2525	881.5	15.39	15.40
CA 2A-4A-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	15.34	15.40
CA 2A-2A-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B4	20	2175	2182.5	LTE B12	10	5095	737.5	15.12	15.40
CA 2A-4A-12B	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B12	5	5095	737.5	LTE B12	5	5047	737.5	15.29	15.40
CA 2A-2A-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B4	20	2175	2182.5	LTE B4	10	2525	881.5	15.39	15.40
CA 2A-2A-5A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	15.37	15.40
CA 2A-5A-66A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	15.40	15.40
CA 2A-2A-12A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	15.26	15.40
CA 2A-2A-12A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	15.24	15.40
CA 2A-12A-66A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	15.40	15.40
CA 2A-12A-66C	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	15.39	15.40
CA 2A-13A-46C	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.5	15.34	15.40
CA 2A-2A-13A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	15.39	15.40
CA 2A-13A-66A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	15.39	15.40
CA 2A-13A-66C	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B13	10	5230	751	LTE B66	20	66786	2145	LTE B66	20	66884	2164.8	15.39	15.40
CA 2A-2A-14A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B14	10	5330	763	LTE B66	20	66786	2145	15.30	15.40
CA 2A-2A-29A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B29	10	8715	722.5	LTE B30	10	8920	2355	15.29	15.40
CA 2A-2A-30A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	1100	1980	LTE B30	10	8920	2355	LTE B66	20	66786	2145	15.26	15.40
CA 2A-4A-5A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.5	LTE B30	10	8920	2355	15.32	15.40
CA 2A-4A-12A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	15.39	15.40
CA 2A-4A-29A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	15.34	15.40
CA 2A-5A-30A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B30	10	8920	2355	LTE B66	20	66786	2145	15.27	15.40
CA 2A-12A-30A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	LTE B30	10	8920	2355	LTE B66	20	66786	2145	15.35	15.40
CA 2A-14A-30A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	LTE B30	10	8920	2355	LTE B66	20	66786	2145	15.30	15.40
CA 2A-29A-30A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B29	10	8715	722.5	LTE B30	10	8920	2355	LTE B66	20	66786	2145	15.29	15.40
CA 2A-2A-46D	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B46	20	50665	5537.5	LTE B46	20	50467	5537.5	LTE B46	20	50665	5537.5	15.39	15.40
CA 2A-5A-30A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B30	10	8920	2355	15.26	15.40

Table 22
Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC (U) Ch.	PCC			PCC (D) Channel	PCC (D) Freq. [MHz]	SCC 1			SCC 2			SCC 3			SCC 4			LTE Tx Power with DR CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
				Mod.	PCC UL RB	PCC UL RB Offset			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-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B4	20	2175	2182.5	-	-	-	-	-	-	-	15.22	15.30
CA 2A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	15.16	15.30
CA 2A-17A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	LTE B17	10	5790	740	-	-	-	-	-	-	-	15.39	15.30
CA 2A-20A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	LTE B20	10	5715	722.5	-	-	-	-	-	-	-	15.30	15.30
CA 2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B66	20	66786	2145	-	-	-	-	-	-	-	15.30	15.30
CA 2C-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	LTE B5	10							

Table 23
Output Powers – Ant 4A

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]	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 0 CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 2A-4A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.89	15.00	
CA 2A-12A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.94	14.94	
CA 2A-17A	LTE B2	10	18925	1882.5	NSGM	5	48	925	1862.5	LTE B17	10	5790	740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.88	15.00		
CA 2A-29A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B8	20	898	1859.8	LTE B20	10	9715	722.5	-	-	-	-	-	-	-	-	-	-	-	-	14.97	15.00	
CA 2A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B5	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00		
CA 2C-5A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	898	1859.8	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	14.89	15.00	
CA 2C-12A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	898	1859.8	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.97	15.00	
CA 2C-29A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	898	1859.8	LTE B20	10	9820	2355	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-2A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	14.90	15.00	
CA 2A-4A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B46	20	50665	5537.5	LTE B46	20	47900	5180	-	-	-	-	-	-	-	-	-	-	-	-	14.91	15.00	
CA 2C-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	898	1859.8	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-4A-11A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	LTE B13	10	5230	751	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-11A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B13	10	5230	751	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-4A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	14.87	15.00	
CA 2A-2A-4A-4A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B4	20	2175	2132.5	LTE B4	10	2330	2150	-	-	-	-	-	-	-	-	-	14.96	15.00
CA 2A-2A-12A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-2A-46C	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	-	-	-	-	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-46A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B46	20	50665	5537.5	LTE B46	20	53540	5825	-	-	-	-	-	-	-	-	-	-	-	-	14.89	15.00	
CA 2A-2A-66A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B46	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	-	14.93	15.00
CA 2A-2A-4A-5A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	15.00	15.00
CA 2A-4A-5A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	LTE B4	10	2330	2150	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	15.00	15.00
CA 2A-4A-5B	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	2175	2132.5	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	15.00	15.00
CA 2A-4A-12A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	-	14.96	15.00
CA 2A-4A-48-12A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	LTE B4	10	2330	2150	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	15.00	15.00
CA 2A-4A-12A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	LTE B12	10	5097	737.7	-	-	-	-	-	-	-	-	-	14.99	15.00
CA 2A-2A-5A-30A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	-	14.90	15.00
CA 2A-2A-5A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	14.95	15.00
CA 2A-5A-6A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-2A-12A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	-	14.94	15.00
CA 2A-12A-66A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-12A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-12A-46C	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B12	10	5095	737.5	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-12A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B13	10	5230	751	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	14.92	15.00	
CA 2A-2A-13A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B13	10	5230	751	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-13A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B13	10	5230	751	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	-	-	-	-	-	-	-	-	14.96	15.00	
CA 2A-2A-14A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	14.92	15.00	
CA 2A-14A-66A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-2A-29A-30A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	-	14.90	15.00
CA 2A-2A-30A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-4A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	50665	5537.5	LTE B66	20	50667	5537.7	LTE B66	20	50668	5537.8	-	-	-	-	-	-	-	-	14.97	15.00	
CA 2A-4A-5A-30A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	2175	2132.5	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-4A-12A-30A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	14.95	15.00	
CA 2A-4A-29A-30A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B4	20	2175	2132.5	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	-	-	-	-	-	-	-	-	14.95	15.00	
CA 2A-5A-30A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B5	10	2525	881.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	14.92	15.00	
CA 2A-12A-30A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B12	10	5095	737.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	14.93	15.00	
CA 2A-14A-30A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B14	10	5330	763	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	15.00	15.00	
CA 2A-29A-30A-66A	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B29	10	9715	722.5	LTE B30	10	9820	2355	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	14.92	15.00	
CA 2A-4A-66D	LTE B2	20	18700	1860	NSGM	1	0	700	1840	LTE B2	20	1100	1980	LTE B46	20	50665	5537.5	LTE B46	20</													

1.3.10 LTE Band 25 as PCC

Table 25
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC					PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			SCC 2			Power		
				Mod.	PCC UL#	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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA_5A-25A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B5	10	2525	881.5	-	-	-	15.38	15.40	
CA_25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B26	10	8865	876.5	-	-	-	15.36	15.40	
CA_25A-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B25	20	8590	1985	LTE B26	5	8865	876.5	15.31	15.40

Table 26
Output Powers – Ant 2B

	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	QPSK	1	0	8140	1940	LTE B5	10	2525	881.5	-	-	-	-	15.28	15.30
CA_25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B26	10	8865	876.5	-	-	-	-	15.28	15.30
CA_25A-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	LTE B25	20	8590	1985	LTE B26	5	8865	876.5	15.24	15.30

Table 27
Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1					SCC 2				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]	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	-	-	-	-	15.00	15.00
CA_25A-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	LTE B26	10	8865	876.5	-	-	-	-	14.80	15.00
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	15.00	15.00

Table 28
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	26590	1905	64QAM	1	99	8590	1985	LTE B5	10	2525	881.5	-	-	-	-	14.46	14.50
CA_25A-26A	LTE B25	20	26590	1905	64QAM	1	99	8590	1985	LTE B26	10	8865	876.5	-	-	-	-	14.50	14.50
CA_25A-25A-26A	LTE B25	20	26590	1905	64QAM	1	99	8590	1985	LTE B25	20	8140	1940	LTE B26	5	8865	876.5	14.39	14.50

1.3.11 LTE Band 30 as PCC

Table 29
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				SCC 4				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]	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	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940.2	-	-	-	-	-	-	-	-	13.22	13.30
CA_2A-2A-5A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	-	13.22	13.30
CA_2A-2A-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	8095	737.5	-	-	-	-	13.22	13.30
CA_2A-2A-25A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	-	-	-	-	13.22	13.30
CA_2A-2A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	-	13.30	13.30
CA_2A-4A-5A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	13.20	13.30
CA_2A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	8095	737.5	-	-	-	-	13.16	13.30
CA_2A-4A-25A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	-	13.29	13.30
CA_2A-5A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	13.28	13.30
CA_2A-12A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B12	10	8095	737.5	LTE B66	20	66786	2145	-	-	-	-	13.21	13.30
CA_2A-14A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	-	-	13.28	13.30
CA_2A-25A-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B2	20	900	1960	LTE B25	10	9715	722.5	LTE B66	20	66786	2145	-	-	-	-	13.29	13.30
CA_4A-4A-5A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	13.25	13.30
CA_4A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	5330	763	LTE B66	20	66786	2145	-	-	-	-	13.29	13.30
CA_5A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	13.28	13.30
CA_12A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B12	10	8095	737.5	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	13.29	13.30
CA_14A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	13.30	13.30
CA_2A-5B-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	LTE B5	10	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2463	874.3	LTE B66	20	66786	2145	13.30	13.30

Table 30
Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
				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_2C-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940.2	-	-	-	-	-	-	14.13	14.30	
CA_2A-2A-5A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B5	10	2525	881.5	-	-	-	14.01	14.30
CA_2A-2A-12A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B12	10	8095	737.5	-	-	-	14.02	14.30
CA_2A-2A-25A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B29	10	9715	722.5	-	-	-	14.05	14.30
CA_2A-2A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	-	-	-	14.08	14.30
CA_2A-4A-5A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	14.04	14.30
CA_4A-4A-12A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	8095	737.5	-	-	-	14.02	14.30
CA_2A-4A-25A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	14.04	14.30
CA_2A-5A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	14.03	14.30
CA_2A-12A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B12	10	8095	737.5	LTE B66	20	66786	2145	-	-	-	14.06	14.30
CA_2A-14A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	-	-	-	14.08	14.30
CA_2A-25A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B2	20	900	1960	LTE B25	10	9715	722.5	LTE B66	20	66786	2145	-	-	-	14.06	14.30
CA_4A-4A-5A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	14.04	14.30
CA_4A-4A-12A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B12	10	8095	737.5	-	-	-	14.02	14.30
CA_2A-4A-25A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B29	10	9715	722.5	-	-	-	14.04	14.30
CA_2A-5A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	-	-	-	14.03	14.30
CA_2A-12A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	-	-	-	14.06	14.30
CA_2A-14A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	-	-	-	14.08	14.30
CA_2A-25A-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	LTE B4	20	2175	2132.5	LTE B4	20	2175	2132.5	LTE B66	20	66786	2145	-	-	-	14.06	14.30

Table 31
Output Powers – Ant 4A

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power					
		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 2C-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E5	10	2525	881.5	-	14.01	14.10			
CA 2A-2A-5A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E5	10	2525	881.5	-	14.03	14.10			
CA 2A-2A-12A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E2/9	10	5095	737.5	-	14.10	14.10			
CA 2A-2A-25A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E6/6	20	66786	2145	-	14.05	14.10			
CA 2A-4A-5A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E6/6	20	66786	2145	-	14.06	14.10			
CA 2A-4A-12A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E4	20	2175	2132.5	LTE E5	10	2525	881.5	-	14.02	14.10			
CA 2A-4A-25A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E4	20	2175	2132.5	LTE E12	10	5095	737.5	-	14.10	14.10			
CA 2A-5A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E5	10	2525	881.5	LTE E6/6	20	66786	2145	-	14.01	14.10			
CA 2A-12A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E12	10	5095	737.5	LTE E6/6	20	66786	2145	-	14.09	14.10			
CA 2A-25A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2/9	10	5095	737.5	LTE E6/6	20	66786	2145	-	14.02	14.10			
CA 4A-4A-5A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E4	20	2175	2132.5	LTE E4	10	2350	2150	LTE E5	10	2525	881.5	-	13.85	14.10			
CA 4A-4A-12A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E4	20	2175	2132.5	LTE E4	10	2350	2150	LTE E12	10	5095	737.5	-	14.03	14.10			
CA 5A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E5	10	2525	881.5	LTE E6/6	20	66786	2145	LTE E6/6	20	67236	2190	-	14.05	14.10			
CA 12A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E12	10	5095	737.5	LTE E6/6	20	66786	2145	LTE E6/6	20	67236	2190	-	14.10	14.10			
CA 14A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E14	10	5330	763	LTE E6/6	20	66786	2145	LTE E6/6	20	67236	2190	-	14.00	14.10			
CA 2A-5B-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E5	10	2525	881.5	LTE E5	5	2463	874.3	LTE E6/6	20	66786	2145	14.09	14.10
CA 5B-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E5	10	2525	881.5	LTE E5	5	2463	874.3	LTE E6/6	20	66786	2145	14.01	14.10	14.10			

Table 32
Output Powers – Ant 4B

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power					
		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 2C-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E5	10	2525	881.5	-	13.98	13.90			
CA 2A-2A-5A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E5	10	2525	881.5	-	13.98	13.90			
CA 2A-2A-12A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E12	10	5095	737.5	-	13.45	13.90			
CA 2A-2A-25A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2	20	700	1940	LTE E2/9	10	9715	722.5	-	13.46	13.90			
CA 2A-5A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E5	10	2525	881.5	LTE E6/6	20	66786	2145	-	13.46	13.90			
CA 2A-4A-5A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E4	20	2175	2132.5	LTE E5	10	2525	881.5	-	13.45	13.90			
CA 2A-4A-12A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E4	20	2175	2132.5	LTE E12	10	5095	737.5	-	13.48	13.90			
CA 2A-4A-25A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E4	20	2175	2132.5	LTE E2/9	10	9715	722.5	-	13.46	13.90			
CA 2A-5A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E5	10	2525	881.5	LTE E6/6	20	66786	2145	-	13.48	13.90			
CA 2A-12A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E12	10	5095	737.5	LTE E6/6	20	66786	2145	-	13.49	13.90			
CA 2A-25A-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E2/9	10	9715	722.5	LTE E6/6	20	66786	2145	-	13.47	13.90			
CA 4A-4A-5A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E4	20	2175	2132.5	LTE E4	10	2350	2150	LTE E5	10	2525	881.5	-	13.48	13.90			
CA 4A-4A-12A-30A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E4	20	2175	2132.5	LTE E4	10	2350	2150	LTE E12	10	5095	737.5	-	13.49	13.90			
CA 5A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E5	10	2525	881.5	LTE E6/6	20	66786	2145	LTE E6/6	20	67236	2190	-	13.45	13.90			
CA 12A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E12	10	5095	737.5	LTE E6/6	20	66786	2145	LTE E6/6	20	67236	2190	-	13.47	13.90			
CA 14A-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E14	10	5330	763	LTE E6/6	20	66786	2145	LTE E6/6	20	67236	2190	-	13.90	13.90			
CA 2A-5B-30A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E2	20	900	1960	LTE E5	10	2525	881.5	LTE E5	5	2463	874.3	LTE E6/6	20	66786	2145	13.41	13.90
CA 5B-30A-66A-66A	LTE E30	10	27710	2310	QPSK	25	0	9820	2355	LTE E5	10	2525	881.5	LTE E5	5	2463	874.3	LTE E6/6	20	66786	2145	13.47	13.90	13.90			

1.3.12 LTE Band 7 as PCC

Table 33
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) 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 E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E5	10	2525	881.5	-	-	-	-	-	-	-	-	-	13.79	13.80
CA 7B	LTE E7	15	20825	2507.5	16QAM	1	0	2825	2627.5	LTE E7	5	2918	2636.8	-	-	-	-	-	-	-	-	-	13.69	13.80
CA 7C (1)	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E7	20	3048	2649.8	-	-	-	-	-	-	-	-	-	13.80	13.80
CA 7A-46A (1)	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E4/6	20	50665	5537.5	-	-	-	-	-	-	-	-	-	13.69	13.80
CA 7A-66A	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E6/6	20	66786	2145	-	-	-	-	-	-	-	-	-	13.66	13.80
CA 4A-4A-7A (1)	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E4	20	2175	2132.5	LTE E4	10	2350	2150	-	-	-	-	-	13.80	13.80
CA 4A-7A-7A	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E7	20	3350	2680	LTE E4	20	2175	2132.5	-	-	-	-	-	13.77	13.80
CA 4A-7A-12A (1)	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E4	20	2175	2132.5	LTE E12	10	5095	737.5	-	-	-	-	-	13.77	13.80
CA 7A-46C (1)	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E4/6	20	50665	5537.5	LTE E4/6	20	50467	5517.7	-	-	-	-	-	13.79	13.80
CA 7A-46D (1)	LTE E7	20	20850	2510	16QAM	1	0	2850	2630	LTE E4/6	20	50665	5537.5	LTE E4/6	20	50467	5517.7	LTE E4/6	20	50863	5557.3	13.70	13.80	

Table 34
Output Powers – Ant 2B

Combination		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) 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	20	20850	2510	QPSK	50	0	2850	2630	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	12.95	13.00	
CA 7A	LTE B7	15	21375	2562.5	QPSK	1	0	3375	2682.5	LTE B7	5	3282	2673.2	-	-	-	-	-	-	-	-	-	12.89	12.95	
CA 7A-13	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B7	20	3048	2699.8	-	-	-	-	-	-	-	-	-	12.99	13.00	
CA 7A-66A (1)	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B46	20	5065	5537.5	-	-	-	-	-	-	-	-	-	12.94	13.00	
CA 7A-66A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	12.96	13.00	
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	-	13.00	13.00	
CA 4A-7A (1)	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B7	20	3350	2680	LTE B4	20	2175	2132.5	-	-	-	-	-	13.00	13.00	
CA 4A-7A-12A (1)	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B4	20	2175	2132.5	LTE B12	20	3350	237.5	-	-	-	-	-	13.00	13.00	
CA 7A-62 (1)	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B46	20	5065	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	12.99	13.00	
CA 7A-46D (1)	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	LTE B46	20	5065	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50683	5557.3	12.90	13.00		

Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch. Freq. [MHz]	PCC			PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1			SCC 2			SCC 3			Power			
				Mod.	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]	LTE Tx Power with DL CA Enable (dBm)
CA 5A-7A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B5	10	2525	2861.5	-	-	-	-	-	-	-	12.26	12.30	
CA 7B	LTE B7	15	20825	2507.5	16QAM	1	74	2825	2527.5	LTE B7	5	2918	2863.8	-	-	-	-	-	-	-	12.26	12.30	
CA 7C (1)	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B7	20	3048	2868.8	-	-	-	-	-	-	-	12.27	12.30	
CA 7A-6A (1)	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	12.28	12.30	
CA 7A-6A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B66	20	66786	2145	-	-	-	-	-	-	-	12.24	12.30	
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	12.26	12.30
CA 4A-7A-7A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B7	20	3350	2860	LTE B4	20	2175	2132.5	-	-	-	-	12.23	12.30
CA 4A-7A-12A (1)	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B4	20	2175	2132.5	LTE B32	10	2196	2132.5	-	-	-	-	12.26	12.30
CA 7A-6A (1)	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	12.25	12.30
CA 7A-46D (1)	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50863	5557.3	12.27	12.30

1.3.13 LTE Band 41 as PCC

Table 37
Output Powers – Ant 2A

Combination	PCB Band	PCC					SCC 1					SCC 2					SCC 3					SCC 4					Power	
		PCF BW [MHz]	PCC [UL] Ch Freq [MHz]	PCC [DL] Freq [MHz]	Mod.	PCC UL RB Offset	PCC [DL] Ch Freq [MHz]	PCC [DL] Freq [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch Freq [MHz]	SCC [DL] Freq [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch Freq [MHz]	SCC [DL] Freq [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch Freq [MHz]	SCC [DL] Freq [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch Freq [MHz]	SCC [DL] Freq [MHz]	LTE Tx Power with 6.6 CA	LTE Single Carrier Tx Power [dBm]		
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41190	2680												17.46	17.50		
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41680	2680								17.46	17.50		
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41680	2680								17.46	17.50		
CA 41A-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41092	2660.2	LTE B41	20	41416	2680					17.49	17.50	
CA 41C-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41092	2660.2	LTE B41	20	41416	2680					17.49	17.50	
CA 41E	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40436	2545.6	LTE B41	20	40344	2565.4					17.46	17.50	
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40436	2545.6	LTE B41	20	41416	2680					17.49	17.50	
CA 41C-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40436	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41680	2680	17.49	17.50	
CA 41A-41C-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40436	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41680	2680	17.49	17.50	

Table 38
Output Powers – Ant 2B

Combination	PCB Band	PCC					SSC1					SSC2					SSC3					SSC4					Power	
		PCB BW [MHz]	PCC [UL] Ch	PCC [DL] Freq. [MHz]	Mod.	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 with CA enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	15.58	15.58	
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	42192	2660.2	LTE B41	20	42490	2680	-	-	-	-	-	-	-	-	15.58	15.58	
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2515.8	-	-	-	-	-	-	-	-	-	-	-	-	15.57	15.57	
CA 41A-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.54	15.56	
CA 41C-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.54	15.56	
CA 41E	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	40146	2545.6	-	-	-	-	-	-	-	-	15.55	15.56	
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	15.54	15.56	
CA 41C-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	15.54	15.56	
CA 41D-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	15.54	15.56	

Table 39
Output Powers – Ant 4A

		PCC								SSC 1				SSC 2				SSC 3				SSC 4				Power		
		PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (DL) Freq.	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch	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 with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 41A-41A(1)	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	17.30	-
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	17.20	17.30
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	17.26	17.30
CA 41A-41D	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	17.22	17.30
CA 41C-41C	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	17.26	17.30
CA 41E	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	41094	2640.4	LTE B41	20	41094	2640.4	-	-	-	-	-	17.29	17.30
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	41094	2640.4	LTE B41	20	41490	2680	-	-	-	-	-	17.30	17.30
CA 41C-41D	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	17.23	17.30	
CA 41D-41C	LTE B41	20	39750	2506	QPSK	1	89	39750	2506	LTE B41	20	39948	2515.8	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	17.23	17.30	

Table 40
Output Powers – Ant 4B

Combination	PCC Band	PCC				SCC 1				SCC 2				SCC 3				SCC 4				Power	
		PCC BW [MHz]	PCC [UL/ DL Freq. (MHz)]	Mod.	PCC UL RB Offset	PCC [DL Freq. (MHz)]	SCC BW [MHz]	SCC [DL Channel]	SCC [UL Freq. (MHz)]	SCC Band	SCC BW [MHz]	SCC [DL Channel]	SCC [UL Freq. (MHz)]	SCC Band	SCC BW [MHz]	SCC [DL Channel]	SCC [UL Freq. (MHz)]	SCC Band	SCC BW [MHz]	SCC [DL Channel]	SCC [UL Freq. (MHz)]	LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 41A-41A (1)	LTE B41	20	39750	2500	QPSK	1	99	99750	2500	LTE B41	20	41490	2680									18.30	18.30
CA 41A-41C	LTE B41	20	39750	2500	QPSK	1	99	99750	2500	LTE B41	20	41292	2660.2	LTE B41	20	41890	2680					18.15	18.15
CA 41C-41A	LTE B41	20	39750	2500	QPSK	1	99	99750	2500					LTE B41	20	41890	2680					18.15	18.30
CA 41A-41D	LTE B41	20	39750	2500	QPSK	1	99	99750	2500	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	18.19	18.20
CA 41C-41C	LTE B41	20	39750	2500	QPSK	1	99	99750	2500					LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	18.19	18.20
CA 41E	LTE B41	20	39750	2500	QPSK	1	99	99750	2500	LTE B41	20	40146	2515.8	LTE B41	20	40146	2545.6	LTE B41	20	40344	2560.0	18.17	18.17
CA 41D-41A	LTE B41	20	39750	2500	QPSK	1	99	99750	2500	LTE B41	20	39948	2515.8	LTE B41	20	40146	2545.6	LTE B41	20	41890	2680	18.19	18.20
CA 41C-41D	LTE B41	20	39750	2500	QPSK	1	99	99750	2500	LTE B41	20	39948	2515.8	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	18.18	18.19
CA 41D-41C	LTE B41	20	39750	2500	QPSK	1	99	99750	2500					LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	18.19	18.20

FCC ID: BCGA1895	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 09/05/18 – 09/21/18	DUT Type: Tablet Device	APPENDIX H: Page 14 of 38

1.3.14 LTE Band 41 PC2 as PCC

Table 41
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC				SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
				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]				
CA 41A-41A (1)	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	17.48	17.50
CA 41A-41C	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	17.38	17.50
CA 41A-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	17.49	17.50
CA 41A-41D	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	17.44	17.50
CA 41C-41C	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	17.40	17.50
CA 41E	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4	-	-	-	-	17.41	17.50
CA 41D-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41490	2680	-	-	-	-	17.49	17.50
CA 41C-41D	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	17.50	17.50
CA 41D-41C	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	17.50	17.50

Table 42
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 with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA 41A-41A (1)	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00
CA 41A-41C	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	15.09	15.00
CA 41C-41A	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	LTE B41 PC2	20	39948	2527.7	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	15.09	15.00
CA 41A-41D	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	15.53	15.00
CA 41C-41C	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	LTE B41 PC2	20	39948	2527.7	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	15.59	15.00
CA 41E	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4	-	-	-	-	-	15.53	15.50
CA 41D-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41490	2680	-	-	-	-	-	15.52	15.50
CA 41C-41D	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	15.43	15.50	
CA 41D-41C	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	15.45	15.50	

Table 43
Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC				SCC 1				SCC 2				SCC 3				SCC 4				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 41A-41A(1)	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	41490	2680											17.23	17.30		
CA 41A-41C	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680							17.22	17.30		
CA 41C-41A	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41490	2680							17.29	17.30		
CA 41A-41D	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680			17.29	17.30		
CA 41C-41C	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680			17.20	17.30		
CA 41E	LTE B41 PC2	20	39750	2506	QPSK	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			17.29	17.30		
CA 41D-41A	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41490	2680			17.21	17.30		
CA 41C-41D	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	17.30	17.30
CA 41D-41C	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	17.14	17.30

Table 44
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 DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 41A-41A (1)	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	41490	2680													16.11	16.20
CA 41A-41C	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680									16.11	16.20
CA 41C-41A	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41490	2680									16.10	16.20
CA 41A-41D	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					16.11	16.20
CA 41C-41C	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					16.14	16.20
CA 41E	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	40344	2565.4					16.15	16.20
CA 41D-41A	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41490	2680					16.15	16.20
CA 41C-41D	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	16.16	16.20
CA 41D-41C	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	16.15	16.20

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.

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1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 45
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]	Maximum Allowed Power [dBm]
4	20	20175	1732.5	QPSK	1	0	15.00	15.00	15.00
66	20	132072	1720	16QAM	1	0	14.50	14.50	14.75
2	20	18700	1860	QPSK	1	0	15.40	15.40	15.40
25	20	26140	1860	QPSK	1	0	15.40	15.40	15.40
7	20	20850	2510	16QAM	1	0	13.80	13.80	14.10
30	10	27710	2310	QPSK	1	0	13.30	13.30	13.30
41	20	39750	2506	QPSK	1	99	17.50	17.50	17.50
41 PC2	20	39750	2506	16QAM	1	50	17.50	17.50	17.50

Table 46
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	QPSK	1	0	14.3	14.30	15.0
66	20	132072	1720	QPSK	1	0	14.3	14.30	15.0
2	20	18700	1860	QPSK	1	0	15.28	15.30	15.3
25	20	26140	1860	QPSK	1	0	15.3	15.30	15.3
7	20	20850	2510	QPSK	50	0	13.00	13.00	13.0
30	10	27710	2310	16QAM	1	0	14.2	14.20	14.2
41	20	39750	2506	QPSK	1	99	15.57	15.56	15.6
41 PC2	5	39750	2506	QPSK	1	24	15.6	15.60	15.6

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Table 47
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	50	0	15.00	15.00	15.0
66	20	132072	1720	QPSK	50	0	15.00	15.00	15.0
2	20	18700	1860	16QAM	1	0	15.00	15.00	15.4
25	20	26140	1860	16QAM	1	0	15.00	15.00	15.4
7	20	20850	2510	QPSK	1	0	14.30	14.30	14.3
30	10	27710	2310	QPSK	25	0	14.10	14.10	14.1
41	20	39750	2506	QPSK	1	99	17.30	17.30	17.3
41 PC2	20	39750	2506	QPSK	1	99	17.30	17.30	17.3

Table 48
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	99	14.85	15.00	15.0
66	20	132072	1720	QPSK	1	99	14.72	15.00	15.0
2	20	19100	1900	64QAM	1	99	14.50	14.50	14.5
25	20	26590	1905	64QAM	1	99	14.49	14.50	14.5
7	20	20850	2510	16QAM	1	50	12.27	12.30	12.3
30	10	27710	2310	QPSK	25	0	13.39	13.50	13.5
41	20	39750	2506	QPSK	1	99	16.2	16.20	16.2
41 PC2	20	39750	2506	QPSK	50	50	16.2	16.20	16.2

1.4.2 LTE Band 12 as PCC

Table 49
Output Powers – Ant 1

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 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 TxPower with DL Carrier Tx CA Enabled (dBm)	LTE Single Carrier Power (dBm)						
CA [2A]-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	19.68	19.70			
CA [4A]-12A (1)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	19.67	19.70		
CA [4A]-12A (2)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	19.67	19.70		
CA [7A]-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	19.67	19.70		
CA [12A]-66A (1)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	19.67	19.70		
CA [12A]-66A (2)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	-	-	19.67	19.70		
CA [2A]-2A-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	-	-	-	19.67	19.70	
CA [2C]-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.66	19.70	
CA [2A]-4A-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	19.68	19.70	
CA [2A]-4A-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.69	19.70	
CA [2A]-12A-10A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.67	19.70	
CA [2A]-12A-66A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	19.68	19.70	
CA [2A]-12A-66A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.68	19.70	
CA [4A]-4A-12A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	-	-	-	-	19.67	19.70	
CA [4A]-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.66	19.70	
CA [4A]-12A-10A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B10	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.69	19.70	
CA [12A]-66C	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	19.67	19.70	
CA [12A]-66A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	-	-	-	19.65	19.70	
CA [12A]-10A-66A	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B10	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	19.67	19.70	
CA [2A]-2A-12B	LTE B12	5	23035	701.5	64QAM	1	24	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	-	-	-	-	-	19.66	19.70
CA [2A]-4A-12B	LTE B12	5	23035	701.5	64QAM	1	24	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	-	-	-	-	-	19.68	19.70
CA [2A]-4A-12B	LTE B12	5	23035	701.5	64QAM	1	24	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	-	-	-	-	-	19.70	19.70
CA [2A]-12A-66C	LTE B12	10	23095	707.5	QPSK	25	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	-	-	-	-	-	19.66	19.70
CA [4A]-4A-12B	LTE B12	5	23035	701.5	64QAM	1	24	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	-	-	-	-	-	19.66	19.70

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Table 50
Output Powers – Ant 3

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]-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.68	21.70
CA [4A]-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.67	21.70
CA [4A]-12A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.67	21.70
CA [7A]-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.70	21.70
CA [12A]-66A (1)	LTE B12	10	23095	707.5	QPSK	1	24	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.69	21.70
CA [12A]-66A (2)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.69	21.70
CA [2A]-2A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	21.70	21.70
CA [2C]-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	21.70	21.70
CA [2A]-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	21.70	21.70
CA [2A]-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	-	-	-	-	-	-	21.69	21.70
CA [2A]-12A-[30A]	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	21.68	21.70
CA [2A]-12A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	21.70	21.70
CA [2A]-12A-[66A]	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	21.69	21.70
CA [4A]-4A-12A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	21.69	21.70
CA [4A]-7A-12A (1)	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	21.70	21.70
CA [4A]-12A-[30A]	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	21.70	21.70
CA [12A]-66C1	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	21.69	21.70
CA [12A]-66A-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	21.70	21.70
CA [12A]-[30A]-66A	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	21.70	21.70
CA [2A]-2A-12B	LTE B12	5	23095	707.5	QPSK	1	24	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	21.67	21.70
CA [2A]-4A-12B	LTE B12	5	23095	707.5	QPSK	1	24	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	21.68	21.70
CA [2A]-4A-12B	LTE B12	5	23095	707.5	QPSK	1	24	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	21.66	21.70
CA [2A]-12A-66C	LTE B12	10	23095	707.5	QPSK	1	0	5095	737.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	LTE B66	20	66984	2164.8	2x2 MIMO	21.70	21.70
CA [4A]-4A-12B	LTE B12	5	23095	707.5	QPSK	1	24	5095	737.5	2x2 MIMO	LTE B12	5	5047	732.7	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	21.68	21.70

1.4.3 LTE Band 17 as PCC

Table 51
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	25	0	5790	740	2x2 MIMO	LTE B2	10	900	1960	4x4 MIMO	19.66	19.70
CA [4A]-17A	LTE B17	10	23790	710	QPSK	25	0	5790	740	2x2 MIMO	LTE B4	10	2175	2132.5	4x4 MIMO	19.67	19.70

Table 52
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	10	23790	710	QPSK	1	0	5790	740	2x2 MIMO	LTE B2	10	900	1960	4x4 MIMO	21.65	21.70
CA [4A]-17A	LTE B17	10	23790	710	QPSK	1	0	5790	740	2x2 MIMO	LTE B4	10	2175	2132.5	4x4 MIMO	21.66	21.70

1.4.4 LTE Band 13 as PCC

Table 53
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	-	-	-	-	-	-	23.29	23.35
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	-	-	-	-	-	-	23.31	23.35
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	-	-	-	-	-	-	23.30	23.35
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	-	-	-	-	-	-	23.33	23.35
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	-	-	-	-	-	-	23.34	23.35
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	-	-	-	-	-	-	23.33	23.35
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	-	-	-	-	-	-	23.28	23.35
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	-	-	-	-	-	-	23.29	23.35
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	-	-	-	-	-	-	23.27	23.35
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	-	-	-	-	-	-	23.28	23.35
CA [13A]-66A-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B66	20	50665	5537.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	23.30	23.35
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	23.29	23.35	
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	23.27	23.35	
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	5	67168	2183.2	2x2 MIMO	LTE B66	15	67261	2192.5	2x2 MIMO	23.26	23.35	
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	2182.5	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	23.26	23.35	
CA [13A]-66C-[66A]	LTE B13	10	23230	782	QPSK	1	0	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	65457	5517.7	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	23.28	23.35	

Table 58
Output Powers – Ant 3

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 1				SCC 2				SCC 3				Power				
											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	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.19	21.40
CA 5A-[25A]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.13	21.40
CA 5A-[43A]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B41	20	40630	2593	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	21.78	21.40
CA [2A]-2A-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	21.06	21.40
CA [2C]-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	21.08	21.40
CA [2A]-4A-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	21.13	21.40
CA 2A-[4A]-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	21.11	21.40
CA 2A-5A-[30A]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	21.14	21.40
CA [2A]-5A-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	21.15	21.40
CA 2A-5A-[66A]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	21.08	21.40
CA [4A]-4A-5A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	21.16	21.40
CA 4A-5A-[30A]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	21.11	21.40
CA 5A-[66A]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	21.13	21.40
CA 5A-[66C]	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	21.08	21.40
CA 5A-[66A]-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	21.09	21.40
CA 5A-[30A]-66A	LTE B5	10	20525	836.5	64QAM	1	49	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	21.07	21.40
CA [2A]-4A-5B	LTE B5	10	20525	836.5	64QAM	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	20.97	21.40
CA 2A-[4A]-5B	LTE B5	10	20525	836.5	64QAM	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	21.02	21.40
CA 2A-5B-[30A]	LTE B5	10	20525	836.5	64QAM	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	21.07	21.40
CA [2A]-5A-66B	LTE B5	10	20525	836.5	64QAM	1	49	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	21.08	21.40
CA [2A]-5A-66C	LTE B5	10	20525	836.5	64QAM	1	49	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	21.05	21.40
CA [2A]-5B-66A	LTE B5	10	20525	836.5	64QAM	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	21.12	21.40
CA 2A-5B-[66A]	LTE B5	10	20525	836.5	64QAM	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	4x4 MIMO	21.10	21.40
CA [4A]-4A-5B	LTE B5	10	20525	836.5	64QAM	1	49	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	21.05	21.40
CA 5B-[66A]-66A	LTE B5	10	20525	836.5	64QAM	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	67236	2190	2x2 MIMO	21.06	21.40
CA 5A-[66A]-66B	LTE B5	10	20525	836.5	64QAM	1	49	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	21.08	21.40
CA 5A-[66A]-66C	LTE B5	10	20525	836.5	64QAM	1	49	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	21.06	21.40
CA 5B-[30A]-66A	LTE B5	10	20525	836.5	64QAM	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	66536	2120	2x2 MIMO	21.02	21.40

1.4.7 LTE Band 26 as PCC

Table 59
Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC					SCC 1					SCC 2					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.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [25A]-26A	LTE B26	1.4	26697	814.7	QPSK	1	0	8697	859.7	4x4 MIMO	LTE B25	20	8365	1962.5	2x2 MIMO	-	-	-	-	-	-	20.78	20.80
CA [25A]-25A-26A	LTE B26	5	26715	816.5	QPSK	1	0	8715	861.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	-	20.79	20.79

Table 60
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) 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	26990	844	QPSK	1	49	8740	864	4x4 MIMO	LTE B25	20	8365	1962.5	2x2 MIMO	-	-	-	-	-	21.18	21.40
CA [25A]-25A-26A	LTE B26	5	27015	846.5	16QAM	1	24	9015	891.5	2x2 MIMO	LTE B25	20	8365	1962.5	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	21.07	21.40

FCC ID: BCGA1895		SAR EVALUATION REPORT	Reviewed by: Quality Manager
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Table 67
Output Powers – Ant 4A

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 1				SCC 2				SCC 3				Power					
											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]-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	15.00	15.00	
CA [2A]-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.00	15.00	
CA [7A]-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B7	20	3100	2655	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.92	15.00	
CA [7A]-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.92	15.00	
CA [12A]-66A (1)	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.97	15.00	
CA [12A]-66A (2)	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.97	15.00	
CA [2A]-2A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	-	14.93	15.00
CA [2C]-60	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	-	14.94	15.00
CA [2C]-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	-	14.94	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 B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.81	15.00
CA [2A]-66C	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [2A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [2A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [2A]-5A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [2A]-5A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.97	15.00
CA [2A]-12A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [2A]-12A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.96	15.00
CA [2A]-13A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [2A]-13A-66A	LTE B66	20	132072	1720	QPSK	50	0	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	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [2A]-14A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.97	15.00
CA [2A]-29A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [2A]-29A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [2A]-30A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [2A]-30A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	15.00	15.00
CA [2A]-46A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.96	15.00
CA [2A]-46A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.96	15.00
CA [5A]-66C	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.96	15.00
CA [5A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [5A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [5A]-30A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	15.00	15.00
CA [12A]-66C	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [12A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [12A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [12A]-30A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.98	15.00
CA [13A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [13A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [13A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [14A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [14A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [29A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [29A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [29A]-13A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.96	15.00
CA [30A]-66A-66A	LTE B66	20	132072	1720	QPSK	50	0	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.99	15.00
CA [30A]-66A-66A	LTE B66	20	132072																									

Table 68
Output Powers – Ant 4B

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 1				SCC 2				SCC 3				Power					
											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]-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.91	15.00	
CA [2A]-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.86	15.00	
CA [2A]-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.91	15.00	
CA [2A]-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B7	20	3100	2655	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.00	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	-	-	-	-	-	-	-	-	-	-	15.00	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	-	-	-	-	-	-	-	-	-	-	15.00	15.00	
CA [2A]-2A-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	-	-	-	-	-	-	14.91	15.00
CA [2C]-46A	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	-	-	-	-	-	-	14.96	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	-	-	-	-	-	-	14.91	15.00
CA [2A]-66B	LTE B66	15	132122	1745	QPSK	1	36	66786	2145	4x4 MIMO	LTE B66	5	66693	2135.7	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.98	15.00
CA [2A]-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.84	15.00
CA [2A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.96	15.00
CA [2A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	-	-	-	-	-	-	14.91	15.00
CA [2A]-5A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.96	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	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.95	15.00
CA [2A]-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	-	-	-	-	-	-	14.95	15.00
CA [2A]-2A-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	2x2 MIMO	-	-	-	-	-	-	14.94	15.00
CA [2A]-13A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B13	10	5330	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	-	-	-	-	-	-	14.94	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	-	-	-	-	-	-	14.94	15.00
CA [2A]-20A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B20	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	-	-	-	-	-	-	14.95	15.00
CA [2A]-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	-	-	-	-	-	-	14.91	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	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.91	15.00
CA [2A]-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	-	-	-	-	-	-	14.93	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	-	-	-	-	-	-	14.94	15.00
CA [5A]-66B	LTE B66	15	132122	1745	QPSK	1	36	66786	2145	4x4 MIMO	LTE B66	5	66693	2135.7	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [5A]-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.95	15.00
CA [5A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.93	15.00
CA [5A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	14.92	15.00
CA [5A]-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.94	15.00
CA [12A]-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.87	15.00
CA [12A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.95	15.00
CA [12A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.95	15.00
CA [12A]-30A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.92	15.00
CA [13A]-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B13	10	5330	751	2x2 MIMO	-	-	-	-	-	-	14.93	15.00
CA [13A]-66C	LTE B66	15	132122	1745	QPSK	1	36	66786	2145	4x4 MIMO	LTE B66	5	66693	2135.7	4x4 MIMO	LTE B13	10	5330	751	2x2 MIMO	-	-	-	-	-	-	15.00	15.00
CA [13A]-66C	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	66734	2139.8	4x4 MIMO	LTE B13	10	5330	751	2x2 MIMO	-	-	-	-	-	-	14.88	15.00
CA [13A]-46A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B13	10	5330	751	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.96	15.00
CA [14A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.93	15.00
CA [14A]-66A-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	-	-	-	-	-	-	14.91	15.00
CA [29A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.93	15.00
CA [29A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.95	15.00
CA [29A]-12A-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	4x4 MIMO	-	-	-	-	-	-	14.93	15.00
CA [30A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.92	15.00
CA [30A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	2x2 MIMO	LTE B66	20	67236	2190	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.94	15.00
CA [46A]-66A-66A	LTE B66	20	132072	1720	QPSK	1	99	66536	2120	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.95	15.00
CA [46A]-66A-66A</																												

1.4.10 LTE Band 2 as PCC

Table 69
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC UL Freq. [MHz]	PCC (UL) Freq. [MHz]	PCC				SCC 1				SCC 2				SCC 3				Power					
					Mod.	PCC UL RB	PCC UL RB Offset	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Freq. [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	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	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	15.37	15.40	
CA [2A]-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	15.32	15.40	
CA [2A]-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	15.38	15.40	
CA [2A]-17A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	15.06	15.40	
CA [2A]-25A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	4x4 MIMO	LTE B25	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	15.08	15.40	
CA [2A]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	15.36	15.40	
CA [2A]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	15.40	15.40	
CA [2A]-2A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	15.35	15.40
CA [2A]-2A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	15.32	15.40
CA [2A]-17A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B17	10	5095	737.5	2x2 MIMO	-	-	-	-	15.37	15.40
CA [2A]-2A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	15.38	15.40
CA [2A]-2A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	15.37	15.40
CA [2A]-2A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2C]-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	15.39	15.40
CA [2A]-2A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	15.38	15.40
CA [2A]-2A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-14A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-14A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	15.38	15.40
CA [2A]-2A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2C]-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	15.39	15.40
CA [2C]-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2C]-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	15.36	15.40
CA [2A]-2A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-36A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B36	10	50665	5537.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-36A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B36	10	50665	5537.5	2x2 MIMO	-	-	-	-	15.39	15.40
CA [2A]-2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	15.39	15.40
CA [2A]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.38	15.40
CA [2C]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.38	15.40
CA [2A]-66B	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	15.36	15.40
CA [2A]-66C	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	15.38	15.40
CA [2A]-66A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	15.38	15.40
CA [2A]-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	15.37	15.40
CA [2A]-4A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	15.38	15.40
CA [2A]-4A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	15.40	15.40
CA [2A]-4A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.38	15.40
CA [2A]-4A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.40	15.40
CA [2A]-5A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.40	15.40
CA [2A]-5A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B5	10	2525	881.5	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	15.40	15.40
CA [2A]-12A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B12	10	5095	737												

Table 70
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] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC 1					SCC 2					SCC 3					Power		
											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	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.19	15.30	
CA [2A]-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	15.26	15.30	
CA [2A]-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.24	15.30	
CA [2A]-17A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.06	15.30	
CA [2A]-29A	LTE B2	10	18650	1855	16QAM	1	0	650	1935	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.90	15.30	
CA [2A]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.18	15.30	
CA [2A]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	15.29	15.30	
CA [2A]-2A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-2A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-4A-4A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	5330	763	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-2A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.24	15.30
CA [2A]-2A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.28	15.30
CA [2C]-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-2A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-2A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.30	15.30
CA [2C]-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.30	15.30
CA [2A]-2A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-2A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	15.30	15.30
CA [2A]-2A-14A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-2A-14A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-2A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-2A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2C]-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2C]-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA 2C-10A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-2A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-2A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-2A-46A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	15.29	15.30
CA [2A]-2A-46A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-2A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	15.29	15.30
CA [2C]-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	15.30	15.30
CA 2C-[66A]	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	15.30	15.30
CA [2A]-66B	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66786	2145	4x4 MIMO	-	-	-	-	-	-	15.30	15.30
CA 2A-[66B]	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	15.30	15.30
CA [2A]-66A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67336	2190	2x2 MIMO	-	-	-	-	-	-	15.30	15.30
CA [2A]-4A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-4A-5A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	15.28	15.30
CA [2A]-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-4A-12A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-4A-13A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-4A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	15.26	15.30
CA [2A]-4A-29A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	15.29	15.30
CA [2A]-4A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	15.24	15.30
CA [2A]-4A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	15.24	15.30
CA [2A]-4A-30A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	15.22	15.30
CA [2A]-5A-[30A]	LTE B2	20	18700	1860	QPSK	1	0	700	1940	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	15.27	15.30
CA [2A]-5A-66A	LTE B2	20	18700	1860	QPSK	1	0	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	15.25	15.30
CA [2A]-5A-66A	LTE B2	20	18700	1860																								

Table 71
Output Powers – Ant 4A

PCC										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 [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	-	-	-	-	-	-	-	-	-	-	14.77	15.00	
CA [2A]-4A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.81	15.00	
CA [2A]-12A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.76	15.00	
CA [2A]-17A	LTE B2	10	18925	1882.5	64QAM	1	49	925	1962.5	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.78	15.00	
CA [2A]-29A	LTE B2	10	18925	1882.5	64QAM	1	49	925	1962.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.82	15.00	
CA [2A]-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.74	15.00	
CA [2A]-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.80	15.00	
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	-	-	-	-	-	-	14.76	15.00
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	-	-	-	-	-	-	14.80	15.00
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	5330	763	2x2 MIMO	-	-	-	-	-	-	14.81	15.00
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	-	-	-	-	-	-	14.71	15.00
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	-	-	-	-	-	-	14.78	15.00
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	-	-	-	-	-	-	14.76	15.00
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	-	-	-	-	-	-	14.72	15.00
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	-	-	-	-	-	-	14.77	15.00
CA [2C]-12A	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	-	-	-	-	-	-	14.70	15.00
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	-	-	-	-	-	-	14.72	15.00
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	-	-	-	-	-	-	14.76	15.00
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	-	-	-	-	-	-	14.73	15.00
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	-	-	-	-	-	-	14.84	15.00
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	-	-	-	-	-	-	14.74	15.00
CA [2A]-2A-29A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	1100	1980	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.78	15.00
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	-	-	-	-	-	-	14.75	15.00
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	-	-	-	-	-	-	14.74	15.00
CA 2C-10A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B2	20	898	1959.8	4x4 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.79	15.00
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	-	-	-	-	-	-	14.79	15.00
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	-	-	-	-	-	-	14.80	15.00
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	-	-	-	-	-	-	14.73	15.00
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	-	-	-	-	-	-	14.82	15.00
CA [2A]-2A-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B2	20	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.76	15.00
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	-	-	-	-	-	-	14.78	15.00
CA [2C]-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	-	-	-	-	-	-	14.70	15.00
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	-	-	-	-	-	-	14.77	15.00
CA [2A]-66B	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	-	14.82	15.00
CA 2A-[66A]	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.80	15.00
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	-	-	-	-	-	-	14.77	15.00
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	-	-	-	-	-	-	14.77	15.00
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	-	-	-	-	-	-	14.79	15.00
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	-	-	-	-	-	-	14.71	15.00
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	-	-	-	-	-	-	14.80	15.00
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	-	-	-	-	-	-	14.71	15.00
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	-	-	-	-	-	-	14.82	15.00
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	-	-	-	-	-	-	14.74	15.00
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	-	-	-	-	-	-	14.84	15.00
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	-	-	-	-	-	-	14.75	15.00
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	-	-	-	-	-	-	14.82	15.00
CA [2A]-4A-30A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.78	15.00
CA [2A]-5A-[30A]	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.76	15.00
CA [2A]-5A-66A	LTE B2	20	18700	1860	16QAM	1	0	700	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.76	15.00
CA 2A-5A-[66A]	LTE B2	20	18700	1860	16QAM	1	0	700	1940	2x2 MIMO	LTE B5																	

Table 72
Output Powers – Ant 4B

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 1				SCC 2				SCC 3				Power					
											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	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.26	14.50	
CA [2A]-4A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.24	14.50	
CA [2A]-12A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.29	14.50	
CA [2A]-17A	LTE B2	5	19175	1907.5	QPSK	1	24	1175	1987.5	4x4 MIMO	LTE B17	10	5790	740	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.42	14.50	
CA [2A]-29A	LTE B2	5	19175	1907.5	QPSK	1	24	1175	1987.5	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.43	14.50	
CA [2A]-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	14.37	14.50	
CA [2A]-166A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	14.27	14.50	
CA [2A]-2A-4A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	14.16	14.50
CA [2A]-2A-4A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	-	14.29	14.50
CA [2A]-4A-4A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.30	14.50
CA [2A]-2A-5A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B5	10	5255	881.5	2x2 MIMO	-	-	-	-	-	-	14.17	14.50
CA [2A]-2A-5A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B5	10	5255	881.5	2x2 MIMO	-	-	-	-	-	-	14.22	14.50
CA [2A]-12A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.19	14.50
CA [2A]-2A-12A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.25	14.50
CA [2C]-12A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.22	14.50
CA [2A]-2A-13A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.24	14.50
CA [2A]-2A-13A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.28	14.50
CA [2A]-2A-14A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.17	14.50
CA [2A]-2A-14A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	-	14.21	14.50
CA [2A]-2A-29A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.13	14.50
CA [2A]-2A-29A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.26	14.50
CA [2C]-29A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.18	14.50
CA [2C]-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.18	14.50
CA [2C]-10A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	902	1960.2	2x2 MIMO	LTE B10	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.27	14.50
CA [2A]-2A-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.22	14.50
CA [2A]-2A-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.22	14.50
CA [2A]-2A-46A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.23	14.50
CA [2A]-2A-46A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	14.30	14.50
CA [2A]-2A-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.26	14.50
CA [2A]-2A-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B2	20	700	1940	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.25	14.50
CA [2C]-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.25	14.50
CA [2C]-166A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B2	20	902	1960.2	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	14.24	14.50
CA [2A]-166B	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B66	15	66786	2145	4x4 MIMO	LTE B66	5	66879	2154.3	4x4 MIMO	-	-	-	-	-	-	14.18	14.50
CA [2A]-166C	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	66984	2164.8	4x4 MIMO	-	-	-	-	-	-	14.27	14.50
CA [2A]-66A-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	-	14.26	14.50
CA [2A]-4A-5A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	5255	881.5	2x2 MIMO	-	-	-	-	-	-	14.15	14.50
CA [2A]-4A-5A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B5	10	5255	881.5	4x4 MIMO	-	-	-	-	-	-	14.29	14.50
CA [2A]-4A-12A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	14.21	14.50
CA [2A]-4A-12A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B12	10	5095	737.5	4x4 MIMO	-	-	-	-	-	-	14.33	14.50
CA [2A]-4A-13A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B13	10	5230	751	2x2 MIMO	-	-	-	-	-	-	14.21	14.50
CA [2A]-4A-13A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B13	10	5230	751	4x4 MIMO	-	-	-	-	-	-	14.30	14.50
CA [2A]-4A-29A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	-	14.13	14.50
CA [2A]-4A-29A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B29	10	9715	722.5	4x4 MIMO	-	-	-	-	-	-	14.27	14.50
CA [2A]-4A-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.14	14.50
CA [2A]-4A-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.24	14.50
CA [2A]-4A-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B30	10	9820	2355	2x2 MIMO	-	-	-	-	-	-	14.34	14.50
CA [2A]-4A-30A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B30	10	9820	2355	4x4 MIMO	-	-	-	-	-	-	14.26	14.50
CA [2A]-5A-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	4x4 MIMO	LTE B5	10	5255	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	14.18	14.50
CA [2A]-5A-66A	LTE B2	20	19100	1900	64QAM	1	99	1100	1980	2x2 MIMO	LTE B5	10	5255	881.5	2x2 MIMO	LTE B66	20	66786	2145</									

1.4.11 LTE Band 25 as PCC

Table 73
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) 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-[25A]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	15.36	15.40
CA_[25A]-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	-	15.38	15.40
CA_[25A]-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	15.39	15.40
CA_[25A]-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	2x2 MIMO	LTE B25	20	8590	1985	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	15.40	15.40

Table 74
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) 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-[25A]	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	15.29	15.30
CA_[25A]-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	-	15.30	15.30
CA_[25A]-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	4x4 MIMO	LTE B25	20	8590	1985	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	15.28	15.30
CA_[25A]-25A-26A	LTE B25	20	26140	1860	QPSK	1	0	8140	1940	2x2 MIMO	LTE B25	20	8590	1985	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	15.27	15.30

Table 75
Output Powers – Ant 4A

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) 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-[25A]	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.77	15.00
CA_[25A]-26A	LTE B25	20	26140	1860	16QAM	1	0	8140	1940	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	-	14.75	15.00
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	14.76	15.00
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	14.76	15.00

Table 76
Output Powers – Ant 4B

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) 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-[25A]	LTE B25	20	26590	1905	64QAM	1	99	8590	1985	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.13	14.50
CA_[25A]-26A	LTE B25	20	26590	1905	64QAM	1	99	8590	1985	4x4 MIMO	LTE B26	10	8865	876.5	2x2 MIMO	-	-	-	-	-	14.25	14.50
CA_[25A]-25A-26A	LTE B25	20	26590	1905	64QAM	1	99	8590	1985	4x4 MIMO	LTE B25	20	8140	1940	2x2 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	14.16	14.50
CA_[25A]-25A-26A	LTE B25	20	26590	1905	64QAM	1	99	8590	1985	2x2 MIMO	LTE B25	20	8140	1940	4x4 MIMO	LTE B26	5	8865	876.5	2x2 MIMO	14.15	14.50

1.4.12 LTE Band 30 as PCC

Table 77
Output Powers – Ant 2A

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) 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 [2C]-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	13.27	13.30
CA [2C]-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	13.19	13.30
CA [2A]-2A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	13.22	13.30
CA [2A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	13.24	13.30
CA [2A]-6A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	13.18	13.30
CA [2A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	13.21	13.30
CA [2A]-5A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	13.22	13.30
CA [2A]-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	13.24	13.30
CA [2A]-14A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	13.20	13.30
CA [2A]-29A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	13.22	13.30
CA [2A]-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	13.25	13.30
CA [2A]-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	13.23	13.30
CA [2A-30A]-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	13.24	13.30
CA [4A]-4A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	13.20	13.30
CA [4A]-5A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	13.22	13.30
CA [4A]-12A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	13.22	13.30
CA [4A]-29A-30A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	13.21	13.30
CA [5A]-10A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	13.16	13.30
CA [12A]-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	13.22	13.30
CA [14A]-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	13.21	13.30
CA [29A]-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	13.23	13.30
CA [30A]-66A-66A	LTE B30	10	27710	2310	QPSK	1	0	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	13.20	13.30
CA [2A-5B]-30A	LTE B30	10	27710	2310	QPSK	1	0	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	13.30	13.30
CA [2A-5B]-30A-66A	LTE B30	10	27710	2310	QPSK	1	0	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	13.19	13.30

FCC ID: BCGA1895



SAR EVALUATION REPORT

Reviewed by:
Quality Manager

Test Dates:
09/05/18 – 09/21/18

DUT Type:
Tablet Device

APPENDIX H:
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Table 78
Output Powers – Ant 2B

PCC											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 (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA [2C]-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	14.04	14.20
CA 2C-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	14.09	14.20
CA [2A]-2A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	14.05	14.20
CA [2A]-4A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	14.12	14.20
CA 2A-[A4]-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	14.13	14.20
CA 2A-4A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	14.11	14.20
CA 2A-5A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.10	14.20
CA 2A-12A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.06	14.20
CA 2A-14A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.11	14.20
CA 2A-29A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.14	14.20
CA [2A]-30A-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.14	14.20
CA 2A-[30A]-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.12	14.20
CA 2A-30A-[66A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	14.12	14.20
CA [A4]-4A-30A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	14.07	14.20
CA 4A-5A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.08	14.20
CA 4A-12A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.11	14.20
CA 4A-29A-[30A]	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.06	14.20
CA 5A-[30A]-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.17	14.20
CA 12A-[30A]-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.10	14.20
CA 14A-[30A]-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.07	14.20
CA 29A-[30A]-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.09	14.20
CA 30A-[66A]-66A	LTE B30	10	27710	2310	16QAM	1	0	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	14.06	14.20
CA 2A-5B-[30A]	LTE B30	10	27710	2310	16QAM	1	0	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	14.14	14.20
CA 5B-[30A]-66A	LTE B30	10	27710	2310	16QAM	1	0	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	14.10	14.20

Table 79
Output Powers – Ant 4A

PCC											SCC1				SCC2				SCC3				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 [2C]-30A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	702	1940.2	4x4 MIMO	-	-	-	-	-	14.08	14.10
CA 2C-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B2	20	702	1940.2	2x2 MIMO	-	-	-	-	-	14.06	14.10
CA [2A]-2A-30A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B2	20	700	1940	2x2 MIMO	-	-	-	-	-	14.10	14.10
CA [2A]-4A-30A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	14.06	14.10
CA 2A-[A4]-30A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	-	-	-	-	-	14.04	14.10
CA 2A-4A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	14.09	14.10
CA 2A-5A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.08	14.10
CA 2A-12A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.04	14.10
CA 2A-14A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B14	10	5330	763	2x2 MIMO	-	-	-	-	-	14.07	14.10
CA 2A-29A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.10	14.10
CA [2A]-30A-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B2	20	900	1960	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.07	14.10
CA 2A-[30A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B2	20	900	1960	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.05	14.10
CA 2A-30A-[66A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B2	20	2175	2132.5	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	14.09	14.10
CA [A4]-4A-30A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	14.10	14.10
CA 4A-5A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	14.08	14.10
CA 4A-12A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	14.07	14.10
CA 4A-29A-[30A]	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	-	-	-	-	-	14.09	14.10
CA 5A-[30A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.09	14.10
CA 12A-[30A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.08	14.10
CA 14A-[30A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B14	10	5330	763	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.04	14.10
CA 29A-[30A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	4x4 MIMO	LTE B29	10	9715	722.5	2x2 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	14.07	14.10
CA 30A-[66A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	LTE B66	20	67236	2190	2x2 MIMO	-	-	-	-	-	14.05	14.10
CA 2A-5B-[30A]	LTE B30	10	27710	2310	QPSK	25	0	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	14.08	14.10
CA 5B-[30A]-66A	LTE B30	10	27710	2310	QPSK	25	0	9820	2355	2x2 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	LTE B5	5	2453	874.3	2x2 MIMO	LTE B66	20	67236	2190	2x2 MIMO	14.10	14.10

1.4.13 LTE Band 7 as PCC

Table 81
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				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 5A-7A	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	13.50	13.80	
CA 7B	LTE B7	15	20825	2507.5	16QAM	1	0	2825	2627.5	4x4 MIMO	LTE B7	5	2918	2636.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	13.60	13.80	
CA 7C [1]	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B7	20	3048	2649.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	13.48	13.80	
CA 7A1-12A	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	13.52	13.80	
CA 7A1-66A [1]	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	13.45	13.80	
CA 7A1-66A	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	13.53	13.80	
CA 7A1-66A	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	13.44	13.80	
CA 4A-4A-7A [1]	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	13.36	13.80
CA 4A-7A1-7A	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B7	20	3350	2680	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	13.35	13.80
CA 4A-7A1-7A	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	2x2 MIMO	LTE B7	20	3350	2680	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	13.32	13.80
CA 4A-7A1-12A [1]	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	13.42	13.80
CA 7A1-46C [1]	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	13.40	13.80
CA 7A1-46D [1]	LTE B7	20	20850	2510	16QAM	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	LTE B46	20	50863	5557.3	2x2 MIMO	13.35	13.80

Table 82
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				DL Ant. Config.	SCC 3				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 5A-7A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	12.98	13.00	
CA 7B	LTE B7	15	21375	2562.5	QPSK	1	0	3375	2682.5	4x4 MIMO	LTE B7	5	3282	2673.2	4x4 MIMO	-	-	-	-	-	-	-	-	-	12.92	12.95	
CA 7C [1]	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B7	20	3048	2649.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	12.99	13.00	
CA 7A1-12A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	12.95	13.00	
CA 7A1-66A [1]	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	12.96	13.00	
CA 7A1-66A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	12.93	13.00	
CA 7A-66A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	12.93	13.00	
CA 4A-4A-7A [1]	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	12.93	13.00
CA 4A-7A1-7A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B7	20	3350	2680	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	12.95	13.00
CA 4A-7A1-7A	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	2x2 MIMO	LTE B7	20	3350	2680	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	12.91	13.00
CA 4A-7A1-12A [1]	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	12.94	13.00
CA 7A1-46C [1]	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	12.91	13.00
CA 7A1-46D [1]	LTE B7	20	20850	2510	QPSK	50	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	LTE B46	20	50863	5557.3	2x2 MIMO	12.96	13.00

Table 83
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				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 5A-7A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.26	14.30	
CA 7B	LTE B7	15	20825	2507.5	QPSK	36	0	2825	2627.5	4x4 MIMO	LTE B7	5	2918	2636.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.28	14.30	
CA 7C [1]	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B7	20	3048	2649.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.26	14.30	
CA 7A1-12A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B12	10	5095	737.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.27	14.30	
CA 7A1-66A [1]	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.21	14.30	
CA 7A1-66A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	14.28	14.30	
CA 7A-66A	LTE B7	20	20850	2510	QPSK	1	0	2850	2630	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	14.25	14.30	
CA 4A-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	-	-	-	-	-	14.25	14.30
CA 4A-7A1-7A	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	-	-	-	-	-	14.30	14.30
CA 4A-7A1-7A	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	-	-	-	-	-	14.28	14.30
CA 4A-7A1-12A [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	-	-	-	-	-	14.30	14.30
CA 7A1-46C [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	-	-	-	-	-	14.27	14.30
CA 7A1-46D [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	LTE B46	20	50863	5557.3	2x2 MIMO	14.28	14.30

Table 84
Output Powers – Ant 4B

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.	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 5A-7A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B5	10	2525	881.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	11.90	12.30	
CA 7B	LTE B7	15	20825	2507.5	16QAM	1	74	2825	2627.5	4x4 MIMO	LTE B7	5	2918	2636.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	11.89	12.30	
CA 7C [1]	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B7	20	3048	2639.8	4x4 MIMO	-	-	-	-	-	-	-	-	-	11.92	12.30	
CA 7A-12A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B12	10	5095	371.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	11.95	12.30	
CA 7A-6A [1]	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	-	-	-	-	-	-	-	-	-	11.94	12.30	
CA 7A-66A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B66	20	66786	2145	2x2 MIMO	-	-	-	-	-	-	-	-	-	11.97	12.30	
CA 7A-66A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	2x2 MIMO	LTE B66	20	66786	2145	4x4 MIMO	-	-	-	-	-	-	-	-	-	12.00	12.30	
CA 4A-4A-7A [1]	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	2x2 MIMO	LTE B4	20	2175	2132.5	4x4 MIMO	LTE B4	10	2350	2150	2x2 MIMO	-	-	-	-	-	11.96	12.30
CA 4A-7A-7A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B7	20	3350	2680	2x2 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	11.95	12.30
CA 4A-7A-7A	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	2x2 MIMO	LTE B7	20	3350	2680	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	-	-	-	-	-	11.95	12.30
CA 4A-7A-12A [1]	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B4	20	2175	2132.5	2x2 MIMO	LTE B12	10	5095	371.5	2x2 MIMO	-	-	-	-	-	11.96	12.30
CA 7A-46C [1]	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	11.88	12.30
CA 7A-46D [1]	LTE B7	20	20850	2510	16QAM	1	50	2850	2630	4x4 MIMO	LTE B46	20	50665	5537.5	2x2 MIMO	LTE B46	20	50467	5517.7	2x2 MIMO	-	-	-	-	-	11.78	12.30

1.4.14 LTE Band 41 as PCC

Table 85
Output Powers – Ant 2A

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) 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	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	17.46	17.50
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	17.41	17.50
CA (41A)-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	17.47	17.50
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	17.48	17.50
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	17.42	17.50
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	39948	2525.8	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	17.48	17.50
CA (41A)-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	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	17.47	17.50
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	17.48	17.50

Table 86
Output Powers – Ant 2B

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) 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	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	15.56	15.56
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	15.53	15.56
CA (41A)-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	15.54	15.56
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	15.58	15.56
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	15.57	15.56
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	39948	2525.8	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	15.55	15.56
CA (41A)-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	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	15.55	15.56
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	15.59	15.56

Table 87
Output Powers – Ant 4A

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) 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	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	17.27	17.30
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	17.27	17.30
CA (41A)-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	17.30	17.30
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	17.26	17.30
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	17.30	17.30
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	39948	2525.8	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	17.25	17.30
CA (41A)-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	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	17.27	17.30
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	17.30	17.30

Table 88
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) 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	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	16.14	16.20
CA 41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	16.13	16.20
CA (41A)-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	41292	2660.2	2x2 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	16.16	16.20
CA 41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	41292	2660.2	4x4 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	16.15	16.20
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	16.20	16.20
CA 41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41	20	39948	2525.8	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	16.20	16.20
CA (41A)-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	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	16.13	16.20
CA 41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41	20	39948	2525.8	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	16.15	16.20

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1.4.15 LTE Band 41 PC2 as PCC

Table 89
Output Powers – Ant 2A

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] 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	50	39750	2506	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	17.29	17.50		
CA [41A]-41A(1)	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	17.27	17.50		
CA [41A]-41C	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	4x4 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	17.22	17.50	
CA [41A]-41C	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	4x4 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	17.13	17.50	
CA [41C]-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	17.25	17.50	
CA [41C]-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	4x4 MIMO	LTE B41 PC2	20	39948	2525.8	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	17.48	17.50	
CA [41A]-41D	LTE B41 PC2	20	39750	2506	16QAM	1	50	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	-	-	-	17.17	17.50
CA [41D]-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	40146	2545.6	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	17.22	17.50

Table 90
Output Powers – Ant 2B

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] 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	QPSK	1	24	39750	2506	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.57	15.60		
CA [41A]-41A(1)	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	15.58	15.60		
CA [41A]-41C	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	4x4 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	15.55	15.60	
CA [41A]-41C	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	4x4 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	15.55	15.60	
CA [41C]-41A	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	2x2 MIMO	LTE B41 PC2	20	39867	2517.7	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	15.53	15.60	
CA [41C]-41A	LTE B41 PC2	5	39750	2506	QPSK	1	24	39750	2506	4x4 MIMO	LTE B41 PC2	20	39867	2517.7	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	15.59	15.60	
CA [41A]-41D	LTE B41 PC2	5	39750	2506	QPSK	1	24	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	-	-	-	15.56	15.60
CA [41D]-41A	LTE B41 PC2	20	39750	2506	16QAM	1	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	40146	2545.6	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	15.55	15.59

Table 91
Output Powers – Ant 4A

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] 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	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	17.25	17.30	
CA [41A]-41A(1)	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	17.25	17.30	
CA [41A]-41C	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	17.26	17.30	
CA [41C]-41C	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	4x4 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	17.26	17.30	
CA [41C]-41A	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	17.28	17.30	
CA [41C]-41A	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	4x4 MIMO	LTE B41 PC2	20	39948	2525.8	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	17.29	17.30	
CA [41A]-41D	LTE B41 PC2	20	39750	2506	QPSK	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	-	-	17.30	17.30
CA [41D]-41A	LTE B41 PC2	20	39750	2506	QPSK	1	99	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	40146	2545.6	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	17.28	17.30

Table 92
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] 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	QPSK	50	50	39750	2506	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	-	-	-	-	16.20	16.20		
CA [41A]-41A(1)	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	-	16.19	16.20		
CA [41A]-41C	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	4x4 MIMO	LTE B41 PC2	20	41292	2660.2	2x2 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	16.20	16.20	
CA [41A]-41C	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	41292	2660.2	4x4 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	16.20	16.20	
CA [41C]-41A	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	-	-	-	-	16.20	16.20	
CA [41C]-41A	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	4x4 MIMO	LTE B41 PC2	20	39948	2525.8	4x4 MIMO	LTE B41 PC2	20	41490	2680	2x2 MIMO	-	-	-	-	-	-	-	16.19	16.20	
CA [41A]-41D	LTE B41 PC2	20	39750	2506	QPSK	50	50	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	-	-	-	16.20	16.20
CA [41D]-41A	LTE B41 PC2	20	39750	2506	QPSK	50	50	39750	2506	2x2 MIMO	LTE B41 PC2	20	39948	2525.8	2x2 MIMO	LTE B41 PC2	20	40146	2545.6	2x2 MIMO	LTE B41 PC2	20	41490	2680	4x4 MIMO	-	-	-	16.20	16.20

FCC ID: BCGA1895



SAR EVALUATION REPORT

Reviewed by:
Quality Manager

Test Dates:
09/05/18 – 09/21/18

DUT Type:
Tablet Device

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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 with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA CA_41C active and additional CA configurations active in the downlink for the configuration required for ULCA CA_41C 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 active.

1.5.1 DL Carrier Aggregation RF Conducted Powers

Table 93
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	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]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC 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	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	17.29	17.27
CA_41D	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	-	-	-	-	-	-	-	-	-	-	-	-	17.27	17.27
CA_41E	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	-	-	-	-	17.29	17.27
CA_41C-41C	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	17.29	17.27
CA_41D-41A	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	17.31	17.27
CA_41C-41D	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	17.30	17.27
CA_41D-41C	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	17.32	17.27

Table 94
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	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]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC 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	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	15.10	15.08
CA_41D	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	-	-	-	-	-	-	-	-	-	-	-	-	15.11	15.08
CA_41E	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	-	-	-	-	15.12	15.08
CA_41C-41C	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	15.09	15.08
CA_41D-41A	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	15.11	15.08
CA_41C-41D	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.13	15.08
CA_41D-41C	LTE B41	20	39750	2506	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	LTE B41	20	40146	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.10	15.08

Table 95
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 DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC 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	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	16.99	17.02
CA_41D	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	40146	2545.6	-	-	-	-	-	-	-	-	-	-	-	-	17.01	17.02
CA_41E	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	-	-	-	-	17.00	17.02
CA_41C-41C	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	17.02	17.02
CA_41D-41A	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	17.03	17.02
CA_41C-41D	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	17.01	17.02
CA_41D-41C	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	LTE B41	20	40146	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	17.04	17.02

Table 96
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 DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC 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	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	15.80	15.84
CA_41D	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	40146	2545.6	-	-	-	-	-	-	-	-	-	-	-	-	15.81	15.84
CA_41E	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	-	-	-	-	15.79	15.84
CA_41C-41C	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	15.80	15.84
CA_41D-41A	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	15.82	15.84
CA_41C-41D	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.84	15.84
CA_41D-41C	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	40146	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.81	15.84

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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
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_41C [1C]	LTE B41	20	39750	2506	QPSK	50	50	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	17.35	17.27
CA_41C-41A	LTE B41	20	39750	2506	QPSK	50	50	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	17.37	17.27
CA_41C-41A	LTE B41	20	39750	2506	QPSK	50	50	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	17.36	17.27
CA_41D-41A	LTE B41	20	39750	2506	QPSK	50	50	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	17.38	17.27

Table 98
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_41C [1]	LTE B41	20	39750	2506	QPSK	50	50	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	15.18	15.08
CA_41C-41A	LTE B41	20	39750	2506	QPSK	50	50	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	15.20	15.08
CA_41C-41A	LTE B41	20	39750	2506	QPSK	50	50	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	15.21	15.08
CA_41D-41A	LTE B41	20	39750	2506	QPSK	50	50	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	50	0	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	15.23	15.08

Table 99
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_41C [1]	LTE B41	20	39750	2506	QPSK	100	0	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	100	0	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	17.07	17.02
CA_41C-41A	LTE B41	20	39750	2506	QPSK	100	0	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	100	0	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	17.08	17.02
CA_41C-41A	LTE B41	20	39750	2506	QPSK	100	0	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	100	0	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	17.10	17.02
CA_41D-41A	LTE B41	20	39750	2506	QPSK	100	0	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	100	0	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	17.06	17.02

Table 100
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 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_41C [1]	LTE B41	20	39750	2506	QPSK	1	99	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	1	0	4x4 MIMO	-	-	-	-	-	-	-	-	-	-	15.88	15.84
CA_41C-41A	LTE B41	20	39750	2506	QPSK	1	99	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	1	0	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	-	-	-	-	-	15.87	15.84
CA_41C-41A	LTE B41	20	39750	2506	QPSK	1	99	4x4 MIMO	LTE B41	20	39948	2525.8	QPSK	1	0	4x4 MIMO	LTE B41	20	41490	2680	2x2 MIMO	-	-	-	-	-	15.88	15.84
CA_41D-41A	LTE B41	20	39750	2506	QPSK	1	99	2x2 MIMO	LTE B41	20	39948	2525.8	QPSK	1	0	2x2 MIMO	LTE B41	20	40146	2545.6	2x2 MIMO	LTE B41	20	41490	2680	4x4 MIMO	15.90	15.84

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1.5.2.2 LTE Band 7

Table 101
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	20850	2510.0	2850	2630.0	QPSK	1	99	4x4 MIMO	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	4x4 MIMO	13.83	13.75

Table 102
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	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	12.96	12.89

Table 103
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	14.22	14.26

Table 104
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	12.14	12.10

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