

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d026

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 MHz Body Medium parameters used (interpolated):

$f = 1900 \text{ MHz}$; $\sigma = 1.58 \text{ S/m}$; $\epsilon_r = 52.228$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-18-2020; Ambient Temp: 19.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7420; ConvF(7.64, 7.64, 7.64) @ 1900 MHz; Calibrated: 11/21/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 11/13/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

1900 MHz System Verification at 20.0 dBm (100 mW)

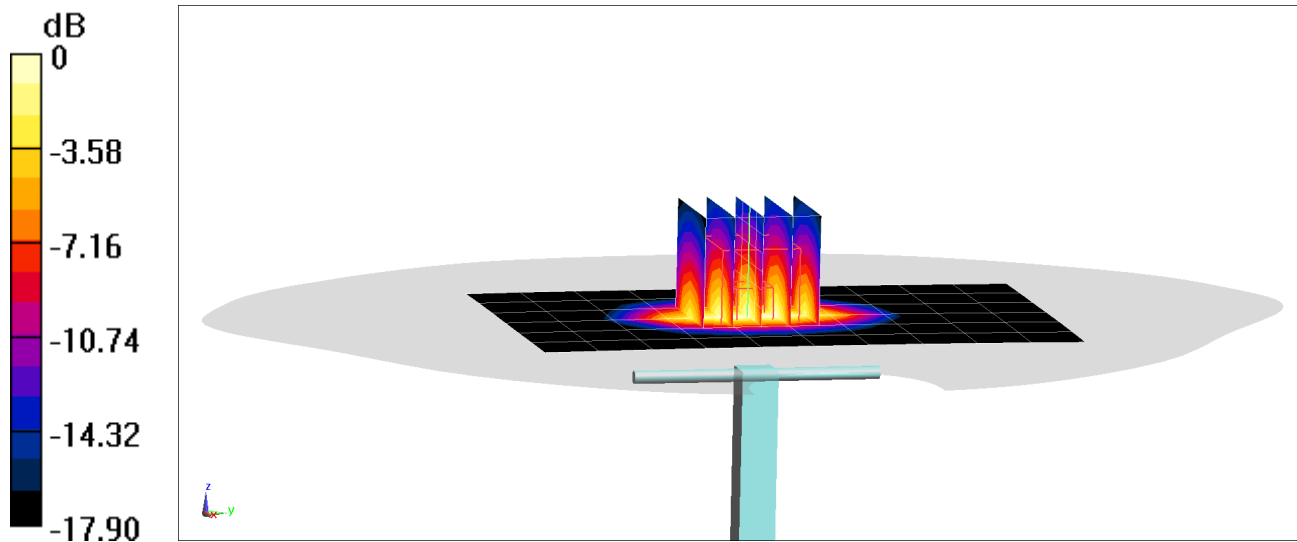
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.66 W/kg

SAR(1 g) = 4.19 W/kg; SAR(10 g) = 2.16 W/kg

Deviation(1 g) = 5.01%



0 dB = 6.50 W/kg = 8.13 dBW/kg

PCTEST

DUT: Dipole 2300 MHz; Type: D2300V3; Serial: SN1038

Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: 2300 MHz Body Medium parameters used:

$f = 2300 \text{ MHz}$; $\sigma = 1.849 \text{ S/m}$; $\epsilon_r = 51.29$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-19-2020; Ambient Temp: 22.4°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7532; ConvF(7.93, 7.93, 7.93) @ 2300 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2300 MHz System Verification at 20.0 dBm (100 mW)

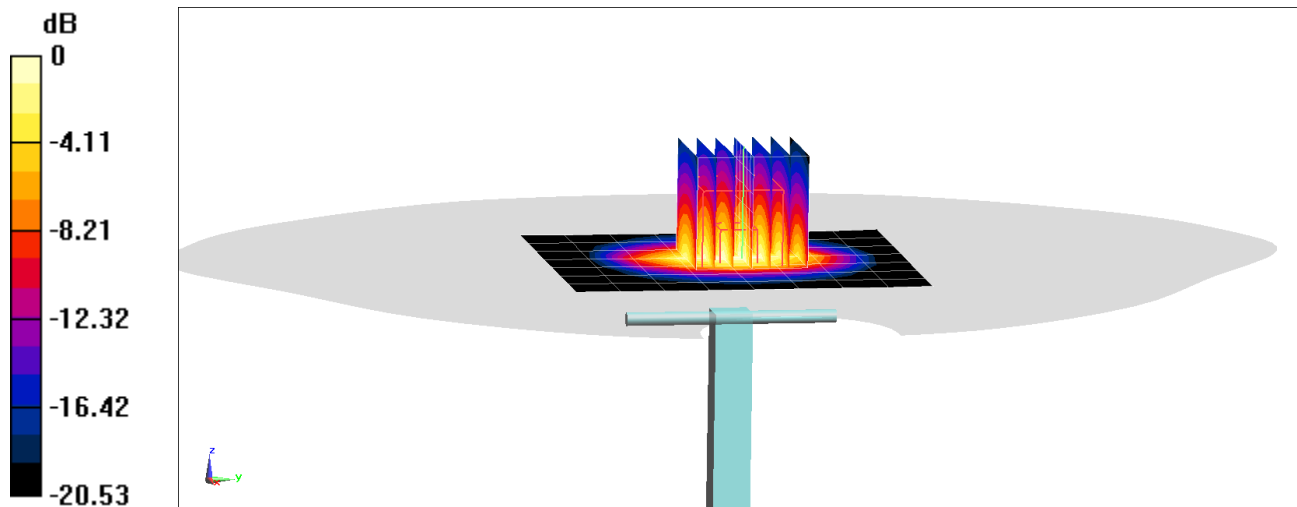
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 8.83 W/kg

SAR(1 g) = 4.45 W/kg; SAR(10 g) = 2.15 W/kg

Deviation(1 g) = -4.71%



0 dB = 7.16 W/kg = 8.55 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.036 \text{ S/m}$; $\epsilon_r = 51.076$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-20-2019; Ambient Temp: 21.0°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

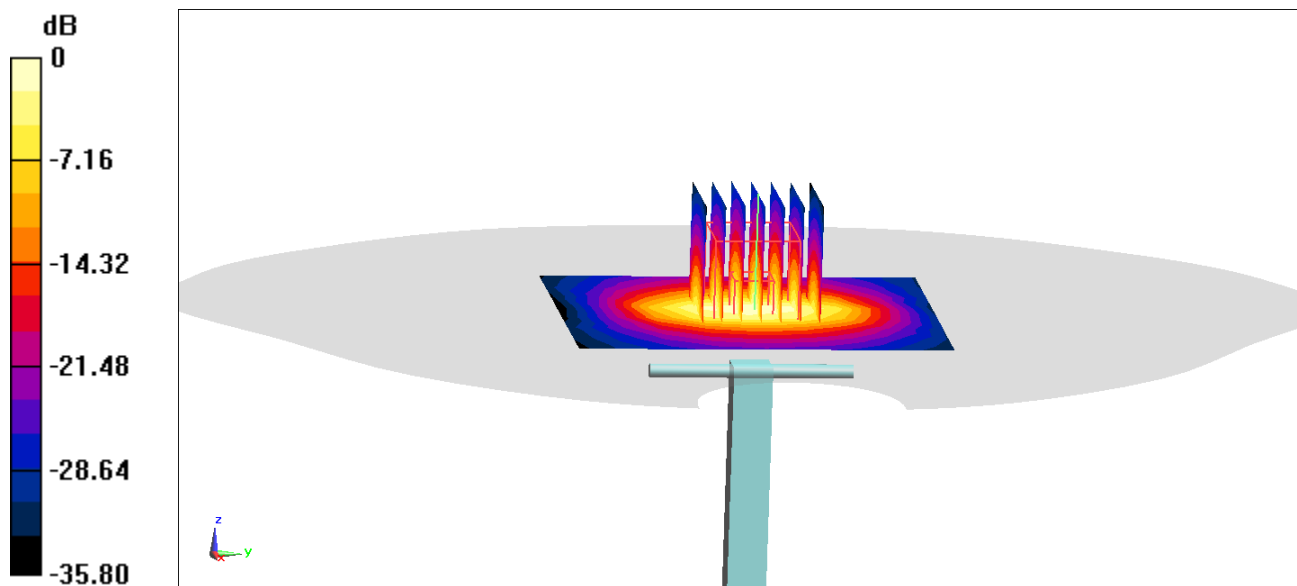
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.36 W/kg; SAR(10 g) = 2.48 W/kg

Deviation(1 g) = 5.51%



0 dB = 8.52 W/kg = 9.30 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450-2600 MHz Body Medium parameters used:

$f = 2450$ MHz; $\sigma = 2.012$ S/m; $\epsilon_r = 51.869$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-26-2019; Ambient Temp: 21.6°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

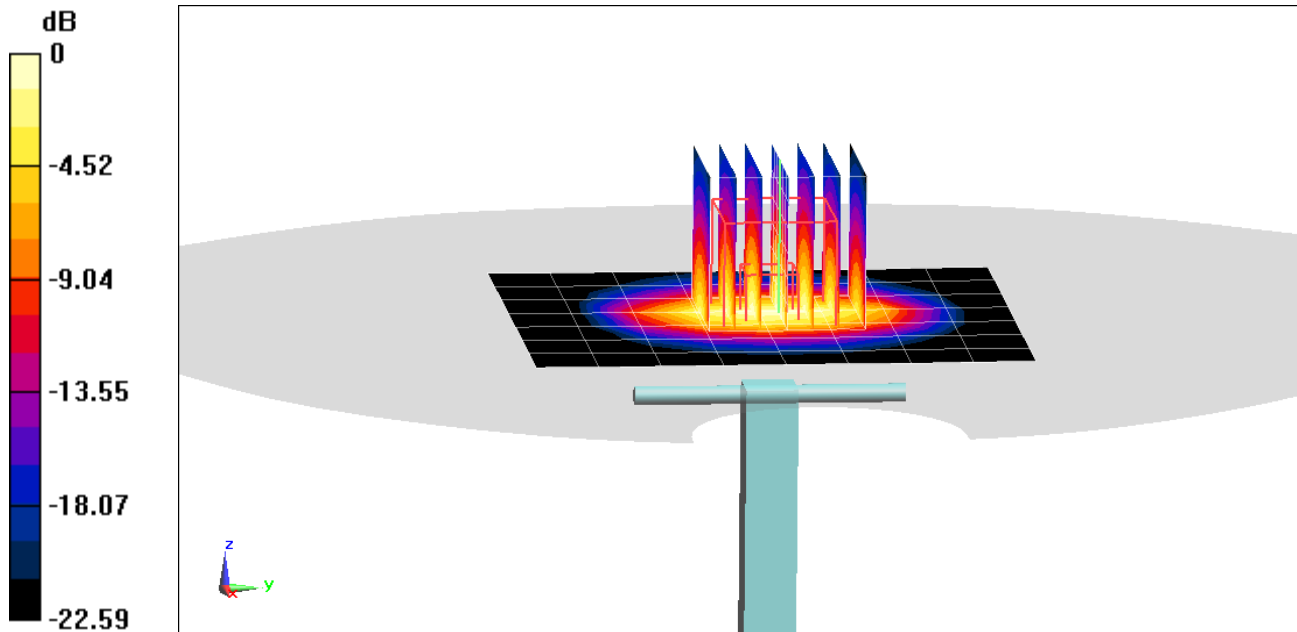
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.4 W/kg

Deviation(1 g) = 3.54%



0 dB = 8.81 W/kg = 9.45 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450-2600 MHz Body Medium parameters used:

$f = 2450$ MHz; $\sigma = 2.016$ S/m; $\epsilon_r = 51.029$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-05-2020; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

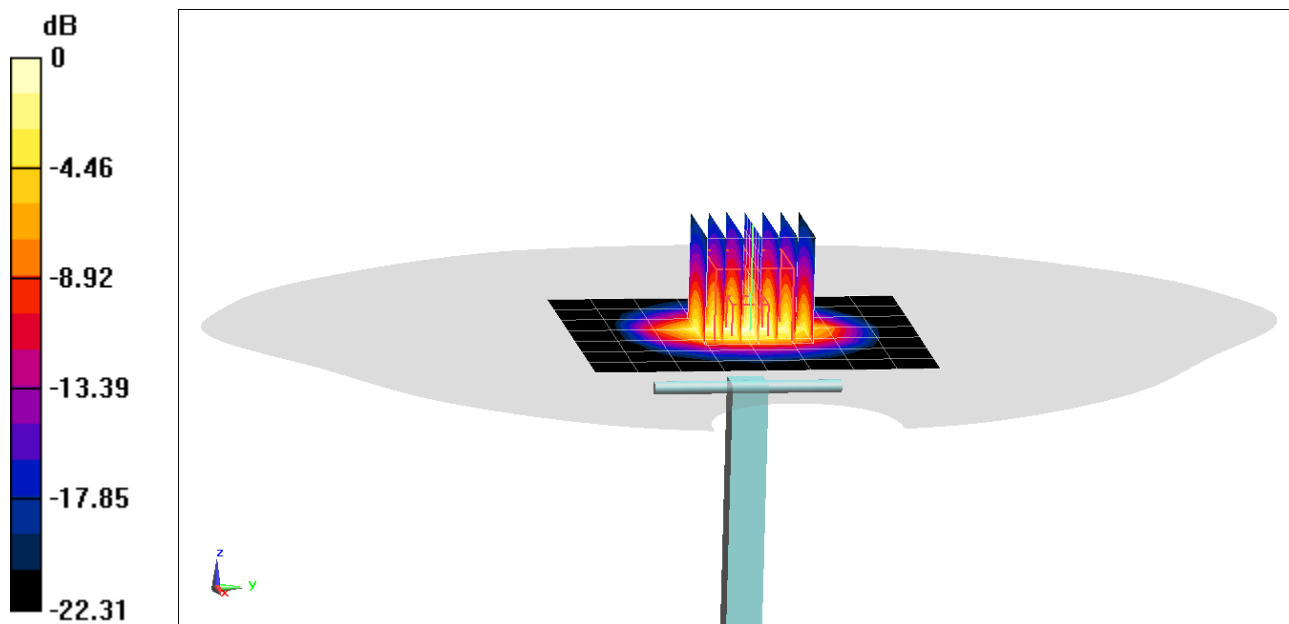
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.41 W/kg

Deviation(1 g) = 3.54%



0 dB = 8.80 W/kg = 9.44 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.948 \text{ S/m}$; $\epsilon_r = 50.877$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-14-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.66, 7.66, 7.66) @ 2450 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2450 MHz System Verification at 20.0 dBm (100 mW)

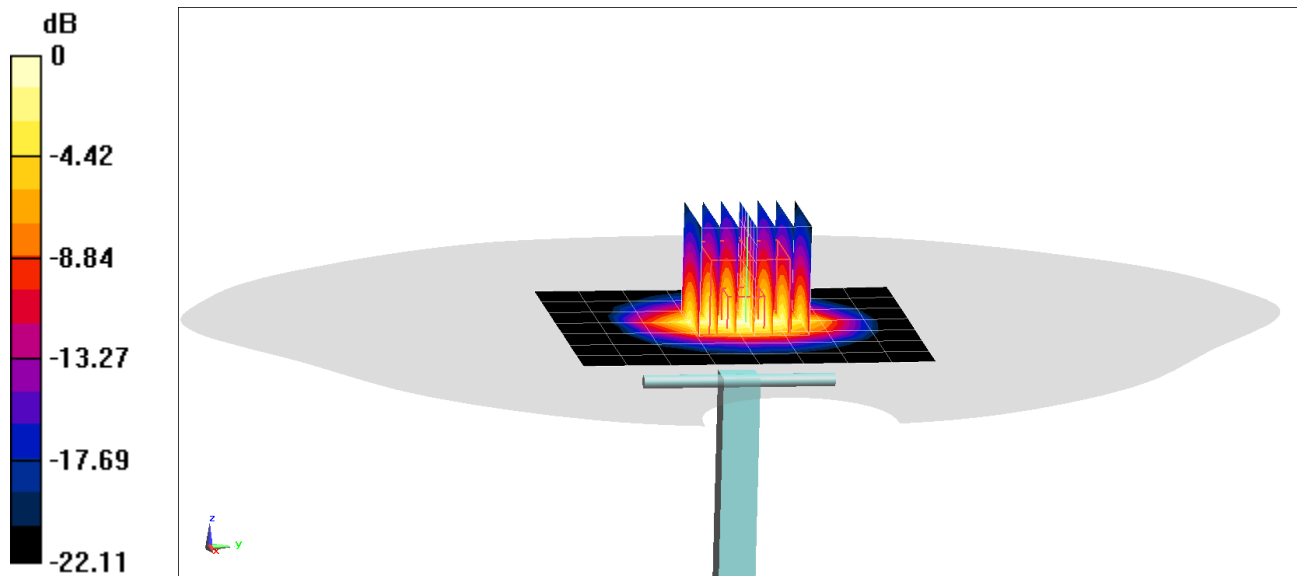
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.12 W/kg; SAR(10 g) = 2.36 W/kg

Deviation(1 g) = 0.79%



0 dB = 8.54 W/kg = 9.31 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450-2600 MHz Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.236$ S/m; $\epsilon_r = 51.259$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-26-2019; Ambient Temp: 21.6°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7532; ConvF(7.47, 7.47, 7.47) @ 2600 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2600 MHz System Verification at 20.0 dBm (100 mW)

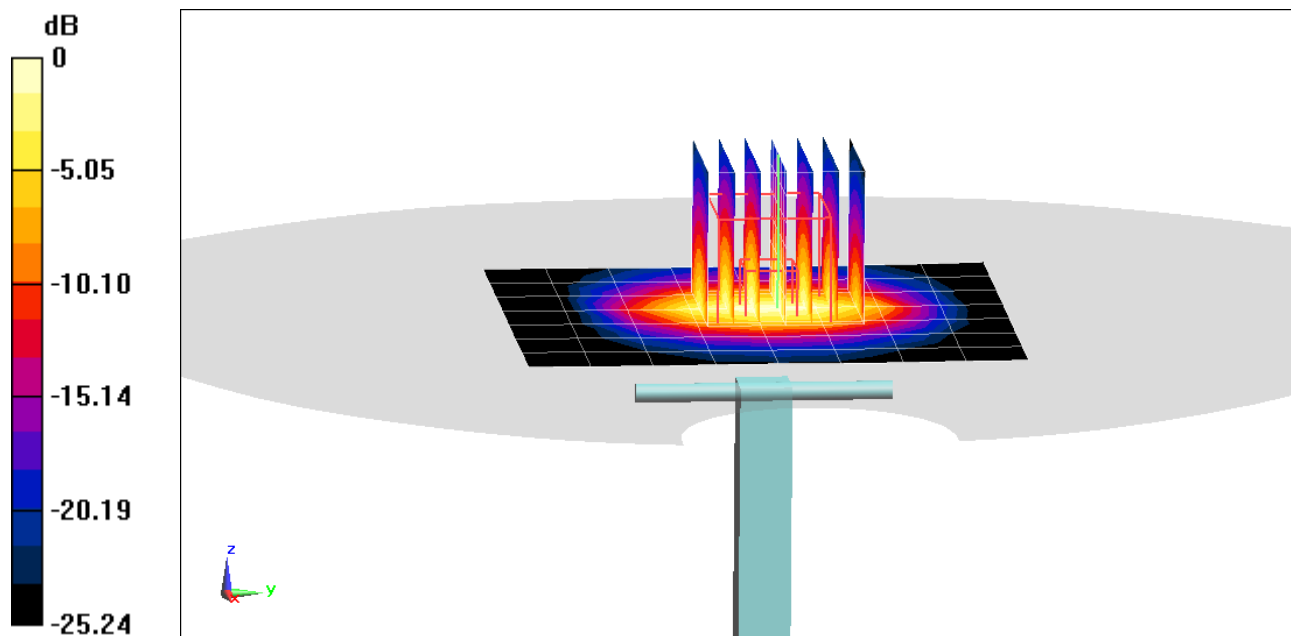
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 5.61 W/kg; SAR(10 g) = 2.4 W/kg

Deviation(1 g) = 1.45%



0 dB = 9.72 W/kg = 9.88 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450-2600 MHz Body Medium parameters used:

$f = 2600$ MHz; $\sigma = 2.233$ S/m; $\epsilon_r = 50.441$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-05-2020; Ambient Temp: 22.2°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7532; ConvF(7.47, 7.47, 7.47) @ 2600 MHz; Calibrated: 4/12/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn501; Calibrated: 4/17/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

2600 MHz System Verification at 20.0 dBm (100 mW)

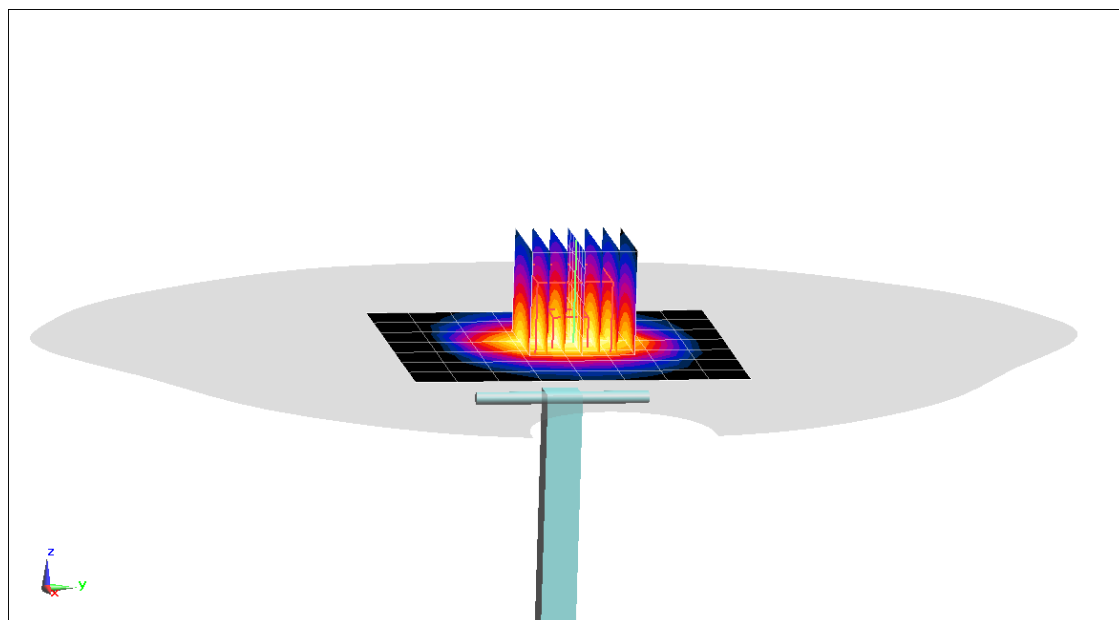
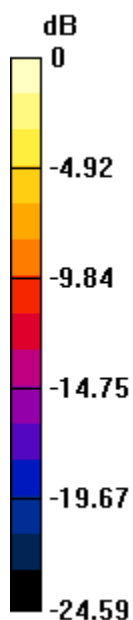
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.35 W/kg

Deviation(1 g) = -2.71%



0 dB = 9.34 W/kg = 9.70 dBW/kg

PCTEST

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: 1068

Communication System: UID 0, CW; Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: 3500-3730 MHz Body Medium parameters used:

$f = 3500 \text{ MHz}$; $\sigma = 3.387 \text{ S/m}$; $\epsilon_r = 49.066$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3949; ConvF(6.88, 6.88, 6.88) @ 3500 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

3500 MHz System Verification at 20.0 dBm (100 mW)

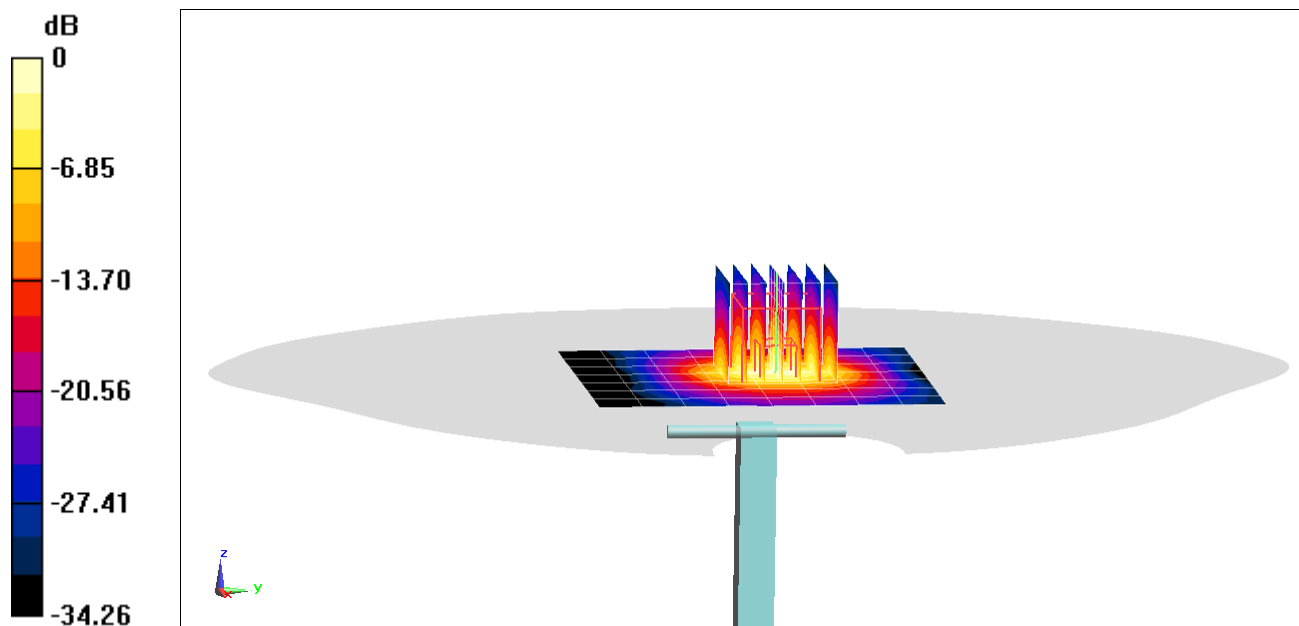
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x8)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=4\text{mm}$

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 6.33 W/kg; SAR(10 g) = 2.36 W/kg

Deviation(1 g) = -3.06%



PCTEST

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: 1029

Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1

Medium: 3500-3730 MHz Body Medium parameters used (interpolated):

$f = 3700$ MHz; $\sigma = 3.658$ S/m; $\epsilon_r = 48.527$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 01-07-2020; Ambient Temp: 22.3°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3949; ConvF(6.78, 6.78, 6.78) @ 3700 MHz; Calibrated: 8/29/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/12/2019

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

3700 MHz System Verification at 20.0 dBm (100 mW)

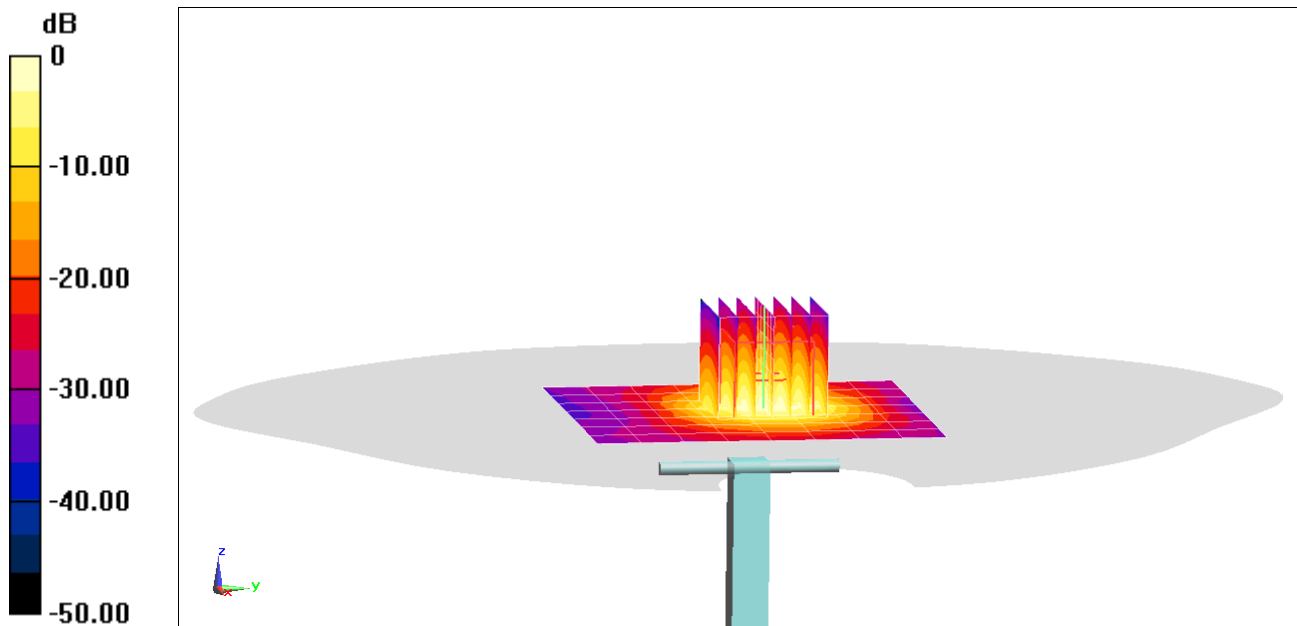
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 6.39 W/kg; SAR(10 g) = 2.27 W/kg

Deviation(1 g) = -1.54%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5250 \text{ MHz}$; $\sigma = 5.15 \text{ S/m}$; $\epsilon_r = 47.477$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-16-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3837; ConvF(4.77, 4.77, 4.77) @ 5250 MHz; Calibrated: 1/28/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/15/2019

Phantom: Twin-SAM V4.0 (20deg probe tilt) SUB use; Type: QD 000 P40 CC;

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

5250 MHz System Verification at 17.0 dBm (50 mW)

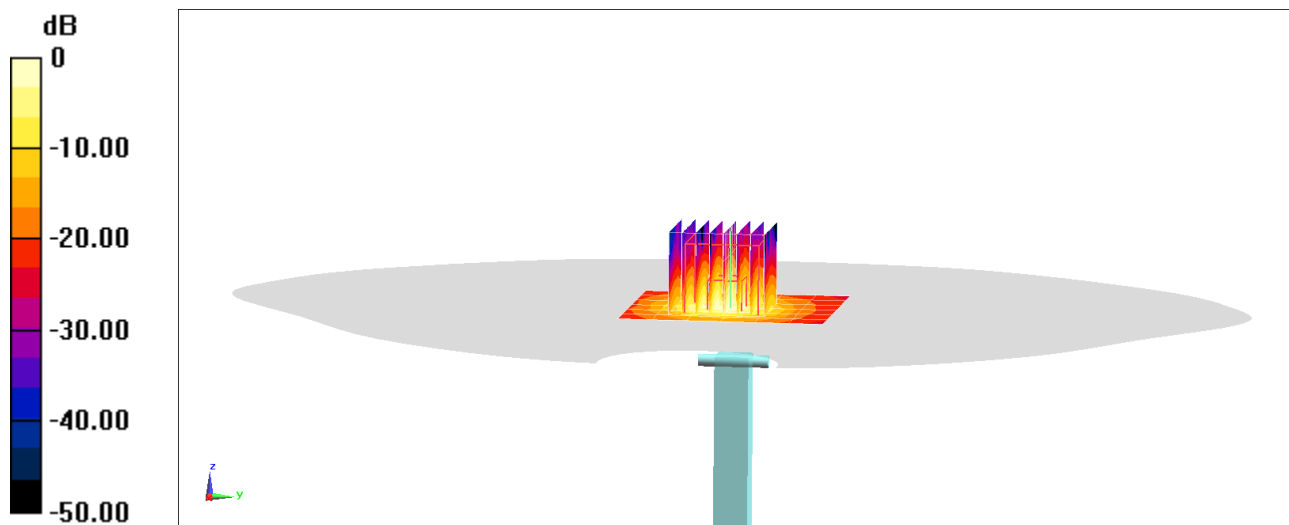
Area Scan (7x7x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 3.47 W/kg; SAR(10 g) = 0.985 W/kg

Deviation(1 g) = -6.22%



0 dB = 8.38 W/kg = 9.23 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5600$ MHz; $\sigma = 5.648$ S/m; $\epsilon_r = 46.793$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-16-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3837; ConvF(4.77, 4.77, 4.77) @ 5250 MHz; Calibrated: 1/28/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/15/2019

Phantom: Twin-SAM V4.0 (20deg probe tilt) SUB use; Type: QD 000 P40 CC;

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

5600 MHz System Verification at 17.0 dBm (50 mW)

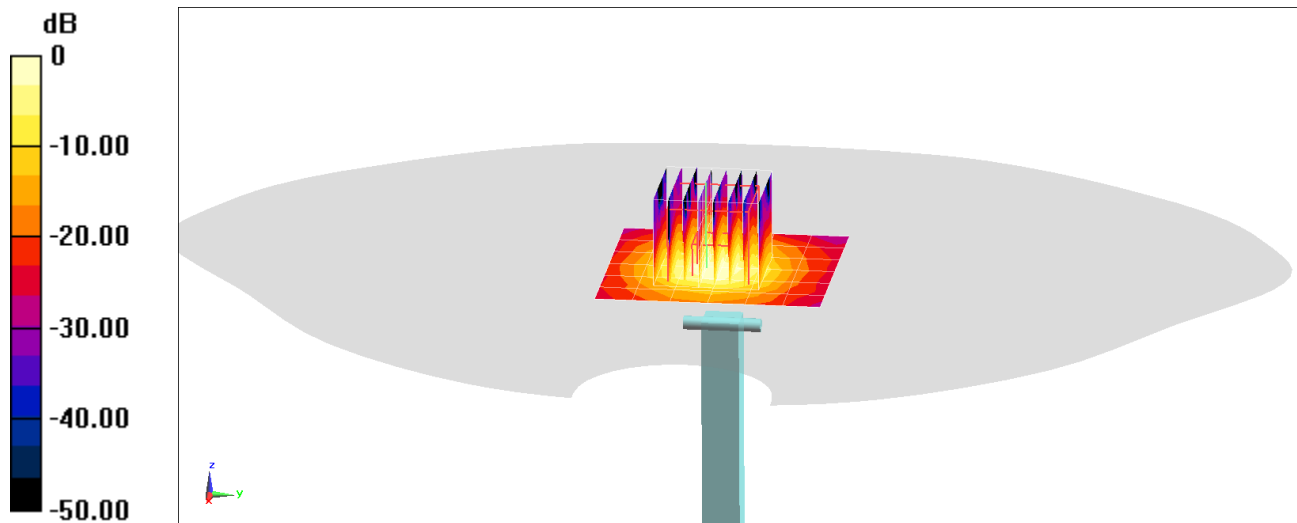
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.2 W/kg

SAR(1 g) = 3.58 W/kg; SAR(10 g) = 1.03 W/kg

Deviation(1 g) = -7.73%



0 dB = 8.33 W/kg = 9.21 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5 GHz Body Medium parameters used (interpolated):

$f = 5750$ MHz; $\sigma = 5.869$ S/m; $\epsilon_r = 46.523$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 12-16-2019; Ambient Temp: 22.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN3837; ConvF(4.34, 4.34, 4.34) @ 5750 MHz; Calibrated: 1/28/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn793; Calibrated: 1/15/2019

Phantom: Twin-SAM V4.0 (20deg probe tilt) SUB use; Type: QD 000 P40 CC; Serial: 1403

Measurement SW: DASY52, Version 52.10 (3);SEMCAD X Version 14.6.13 (7474)

5750 MHz System Verification at 17.0 dBm (50 mW)

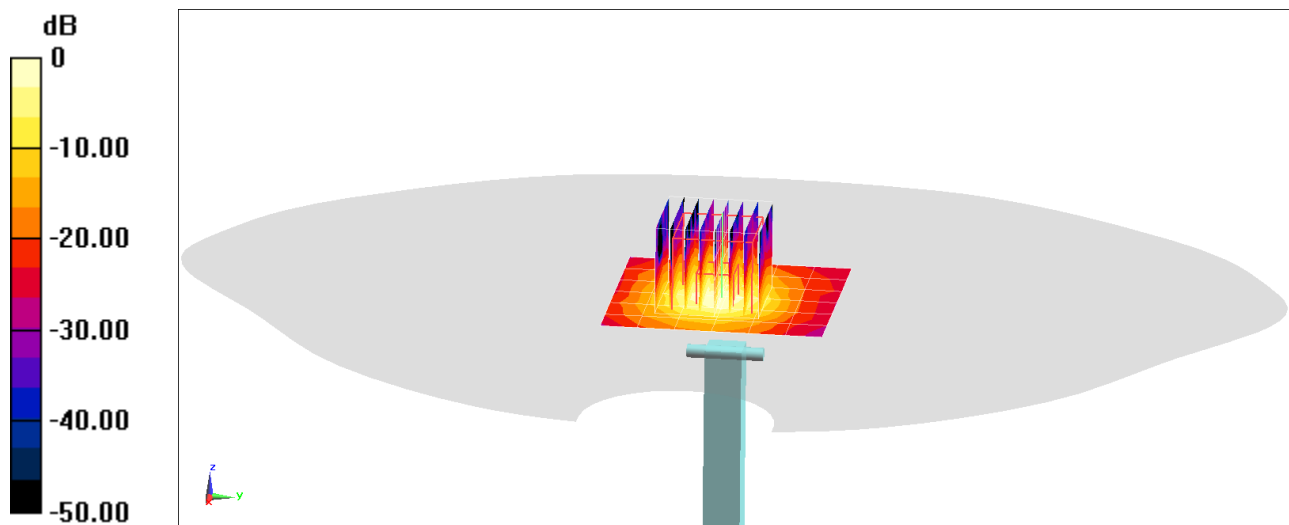
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.4 W/kg

SAR(1 g) = 3.52 W/kg; SAR(10 g) = 1.01 W/kg

Deviation(1 g) = -5.76%



0 dB = 8.39 W/kg = 9.24 dBW/kg

APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/16/2019 - 1/21/2020	DUT Type: Tablet Device		APPENDIX C: Page 1 of 3

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 $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	Ethanediol STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	Sodium petroleum sulfonate Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	Alkoxyated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

Note: 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.

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 12/16/2019 - 1/21/2020	DUT Type: Tablet Device		APPENDIX C: Page 2 of 3

Measurement Certificate / Material Test

Item Name **Body Tissue Simulating Liquid (MBBL600-6000V6)**
 Product No. **SL AAM U16 BC (Batch: 181029-1)**
 Manufacturer **SPEAG**

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865864 compliance standard.

Test Condition

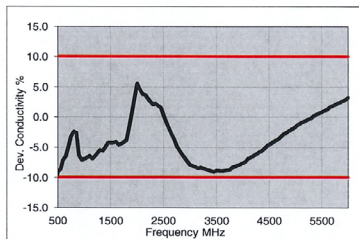
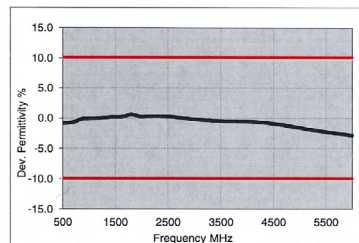
Ambient Condition **22°C ; 30% humidity**
 TSL Temperature **22°C**
 Test Date **30-Oct-18**
 Operator **CL**

Additional Information

TSL Density
 TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1
825	55.1	20.8	0.96	55.2	0.98	-0.3	-2.0
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6
1500	54.1	15.3	1.27	53.9	1.33	0.3	-4.5
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2
1650	53.8	14.9	1.36	53.7	1.43	0.2	-4.9
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0
1800	53.7	14.6	1.46	53.3	1.52	0.8	-3.9
1810	53.7	14.6	1.47	53.3	1.52	0.8	-3.3
1825	53.7	14.6	1.48	53.3	1.52	0.8	-2.6
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3
2050	53.4	14.4	1.64	53.2	1.57	0.3	4.5
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2
2400	52.9	14.5	1.94	52.8	1.90	0.2	2.1
2450	52.9	14.5	1.98	52.7	1.95	0.4	1.5
2500	52.8	14.6	2.03	52.6	2.02	0.3	0.5
2550	52.7	14.6	2.07	52.6	2.09	0.2	-1.0
2600	52.6	14.7	2.12	52.5	2.16	0.2	-1.9



3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
5600	47.3	18.8	5.84	48.5	5.77	-2.3	1.3
5700	47.1	18.9	5.99	48.3	5.88	-2.5	1.8
5800	47.0	19.0	6.14	48.2	6.00	-2.6	2.3

TSL Dielectric Parameters

1

Figure C-2
600 – 5800 MHz Body Tissue Equivalent Matter

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APPENDIX D: SAR SYSTEM VALIDATION

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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 D-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT	COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
					(σ)	(ε _r)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM1	750	7/15/2019	7421	750	Body	0.93	53.942	PASS	PASS	PASS	N/A	N/A
AM7	835	2/21/2019	3837	835	Body	1.013	53.782	PASS	PASS	PASS	GMSK	PASS
AM8	835	8/2/2019	7416	835	Body	0.994	53.524	PASS	PASS	PASS	GMSK	PASS
AM8	1750	8/5/2019	7416	1750	Body	1.495	52.93	PASS	PASS	PASS	N/A	N/A
AM6	1750	3/12/2019	7427	1750	Body	1.456	51.525	PASS	PASS	PASS	N/A	N/A
AM5	1900	8/13/2019	7491	1900	Body	1.525	52.611	PASS	PASS	PASS	GMSK	PASS
AM1	1900	7/15/2019	7421	1900	Body	1.548	51.802	PASS	PASS	PASS	GMSK	PASS
AM2	1900	12/5/2019	7420	1900	Body	1.49	52.56	PASS	PASS	PASS	GMSK	PASS
AM4	2300	4/23/2019	7532	2300	Body	1.897	50.974	PASS	PASS	PASS	N/A	N/A
AM4	2450	4/23/2019	7532	2450	Body	2.027	50.762	PASS	PASS	PASS	OFDM/TDD	PASS
AM4	2600	4/23/2019	7532	2600	Body	2.167	50.527	PASS	PASS	PASS	TDD	PASS
AM3	3500	12/11/2019	3949	3500	Body	3.448	50.786	PASS	PASS	PASS	TDD	PASS
AM3	3700	12/11/2019	3949	3700	Body	3.67	50.471	PASS	PASS	PASS	TDD	PASS
AM7	5250	4/8/2019	3837	5250	Body	5.453	47.04	PASS	PASS	PASS	OFDM	N/A
AM7	5600	4/8/2019	3837	5600	Body	5.95	46.354	PASS	PASS	PASS	OFDM	N/A
AM7	5750	4/8/2019	3837	5600	Body	6.176	46.059	PASS	PASS	PASS	OFDM	N/A

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 F: 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

Index	ACC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
CC1	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC2	CA_2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC3	CA_2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC4	CA_2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC5	CA_2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC6	CA_2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC7	CA_2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC8	CA_2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC9	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC10	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC11	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC12	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC13	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC14	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC15	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC16	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC17	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC18	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC19	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC20	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes

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

Index	ACC	Supported Channel Bandwidth (MHz)	Restriction	Completely Covered by Measurement Superset
CC1	CA_2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC2	CA_2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC3	CA_2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC4	CA_2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC5	CA_2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC6	CA_2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC7	CA_2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC8	CA_2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC9	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC10	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC11	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC12	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC13	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC14	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC15	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC16	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC17	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC18	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC19	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes
CC20	CA_2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A-2A	5, 10, 15, 20	5, 10, 15, 20	Yes

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 maximum 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. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

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.

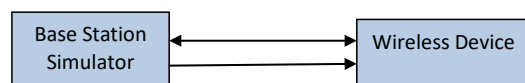


Figure 1
DL CA Power Measurement Setup

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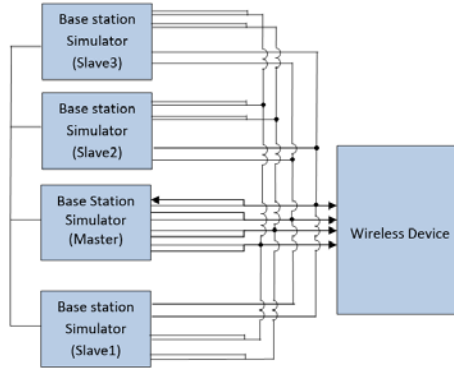


Figure 2
DL CA with DL 4x4 MIMO Power Measurement Setup

1.3 Downlink Carrier Aggregation RF Conducted Powers

1.3.1 LTE Band 71 as PCC

Table 1
Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC				PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC 1			SCC 2			SCC 3			Power			
				Mod.	PCC UL RB	PCC UL RB Offset	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_4A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	19.79	19.80	
CA_2A-4A-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	LTE B2	20	900	1590	LTE B4	20	2175	2132.5	-	-	-	19.77	19.80	
CA_2A-2A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	LTE B2	20	900	1590	LTE B2	20	700	1540	LTE B66	20	66786	2145	19.76	19.80
CA_2A-66A-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	LTE B2	20	900	1590	LTE B66	20	66786	2145	LTE B66	20	66786	2150	19.74	19.80
CA_2A-66C-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	LTE B2	20	900	1590	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	19.75	19.80

Table 2
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC			SCC 1			SCC 2			SCC 3			Power							
				Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) 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_4A-4A-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	LTE B4	20	2175	2132.5	LTE B4	10	2350	2150	-	-	-	-	21.83	21.95
CA_2A-4A-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	LTE B2	20	900	1590	LTE B4	20	2175	2132.5	-	-	-	-	21.87	21.95
CA_2A-2A-66A-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	LTE B2	20	900	1590	LTE B2	20	700	1940	LTE B66	20	66786	2145	21.78	21.95
CA_2A-66A-66A-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	LTE B2	20	900	1590	LTE B66	20	66786	2145	LTE B66	20	67236	2150	21.83	21.95
CA_2A-66C-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	LTE B2	20	900	1590	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	21.80	21.95

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1.3.2

LTE Band 12 as PCC

Table 3
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-12A(1)	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	-	-	-	-	-	-	-	-	-	-	-	-	21.47	21.49
CA 4A-12A(1)	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2122.5	-	-	-	-	-	-	-	-	-	-	-	-	21.48	21.49
CA 4A-12A(2)	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2122.5	-	-	-	-	-	-	-	-	-	-	-	-	21.48	21.49
CA 12A-25A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B25	20	8305	1902.5	-	-	-	-	-	-	-	-	-	-	-	-	21.47	21.49
CA 12A-66A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B66	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	21.43	21.49
CA 12A-66A (1)	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	21.47	21.49
CA 12A-66A (2)	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	21.47	21.49
CA 2C-12A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	21.47	21.49
CA 2A-2A-12B	LTE B12	5	23105	713.5	16QAM	1	24	5155	743.5	LTE B12	10	5081	736.3	LTE B2	20	900	1960	LTE B2	20	700	1940	-	-	-	-	20.96	21.30
CA 4A-4A-12B	LTE B12	5	23105	713.5	16QAM	1	24	5155	743.5	LTE B12	10	5081	736.3	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	-	-	-	-	20.99	21.30
CA 2A-2A-12A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	21.43	21.49
CA 2A-4A-12A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	21.48	21.49
CA 2A-4A-12B	LTE B12	5	23105	713.5	16QAM	1	24	5155	743.5	LTE B12	10	5081	736.3	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	20.95	21.30
CA 2A-12A-66C	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	66984	2164.0	-	-	-	-	21.47	21.49
CA 4A-4A-12A-30A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B4	20	2175	2122.5	LTE B4	10	2250	2150	LTE B30	10	8620	2365	-	-	-	-	21.46	21.49
CA 2A-4A-12A-30A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B4	10	2175	2132.5	LTE B30	10	8620	2365	-	-	-	-	21.44	21.49
CA 2A-7A-12A-66A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B7	20	3300	2655	LTE B66	20	66786	2145	-	-	-	-	21.43	21.49
CA 2A-2A-12A-66A-66A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B66	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.42	21.49
CA 2A-12A-12A-30A-66A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B30	10	8620	2365	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.43	21.49
CA 2A-12A-30A-66A-66A	LTE B12	10	23005	707.5	QPSK	1	0	5095	737.5	LTE B2	20	900	1900	LTE B30	10	8620	2365	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.43	21.49

Table 4
Output Powers – Ant 3

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 2A-12A (1)	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	-	-	-	-	-	-	-	-	-	-	-	-	19.78	19.80
CA 4A-12A (1)	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	19.79	19.80
CA 4A-12A (2)	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	-	-	19.79	19.80
CA 12A-25A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B25	20	8305	1902.5	-	-	-	-	-	-	-	-	-	-	-	-	19.75	19.80
CA 12A-66A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B66	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	19.80	19.80
CA 12A-66A (1)	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	19.80	19.80
CA 12A-66A (2)	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	-	-	-	19.80	19.80
CA 2C-12A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	19.74	19.80
CA 2A-2A-12B	LTE B12	5	23010	703.5	16QAM	1	12	5095	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1900	LTE B2	20	700	1940	-	-	-	-	19.53	19.80
CA 4A-4A-12B	LTE B12	5	23010	703.5	16QAM	1	12	5095	731.5	LTE B12	10	5107	738.7	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	19.55	19.80
CA 2A-2A-4A-12A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	19.55	19.80
CA 2A-4A-12A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	19.52	19.80
CA 2A-4A-12B	LTE B12	5	23010	703.5	16QAM	1	12	5095	731.5	LTE B12	10	5107	738.7	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	-	-	-	-	19.42	19.80
CA 2A-12A-66B	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	66984	2164.0	-	-	-	-	19.59	19.80
CA 4A-4A-12A-30A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	LTE B30	10	8620	2365	-	-	-	-	19.59	19.80
CA 2A-4A-12A-30A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	LTE B30	10	8620	2365	-	-	-	-	19.70	19.80
CA 2A-4A-12A-66A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B7	20	3300	2655	LTE B66	20	66786	2145	-	-	-	-	19.63	19.80
CA 2A-2A-12A-66A-66A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B30	10	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.77	19.80
CA 2A-12A-12A-30A-66A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B30	10	8620	2365	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.77	19.80
CA 2A-12A-30A-66A-66A	LTE B12	10	23005	707.5	16QAM	1	49	5095	737.5	LTE B2	20	900	1900	LTE B30	10	8620	2365	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.77	19.80

1.3.3

LTE Band 13 as PCC

Table 5
Output Powers – Ant 1

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]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 4A-4A-13A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	-	21.18	21.30
CA 2A-13A-13A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B4	20	2175	2132.5	-	-	-	-	-	21.18	21.30
CA 2A-13A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B46	20	50665	5537.5	-	-	-	-	-	21.22	21.30
CA 13A-66A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	21.23	21.30
CA 13A-66A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	21.23	21.30
CA 13A-66A-66B	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	66786	2145	LTE B66	5	67169	2183.2	LTE B66	15	67261	2192.9	-	21.25	21.30
CA 13A-66A-66C	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	66786	2145	LTE B66	20	67236	2190	-	-	-	-	-	21.20	21.30
CA 2A-2A-13A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B2	20	700	1900	LTE B2	20	66786	2145	-	21.21	21.30
CA 2A-13A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	-	21.18	21.30
CA 2A-13A-66B	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	-	21.18	21.30
CA 2A-13A-66B	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B66	15	66786	2145	LTE B66	5	66979	2154.3	-	21.18	21.30
CA 2A-13A-66C	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B2	20	900	1900	LTE B66	20	66786	2145	LTE B66	20	66994	2164.8	-	21.21	21.30
CA 13A-66A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	50667	5537.7	LTE B66	20	50669	5537.9	-	21.20	21.30
CA 13A-66C-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	50667	5537.7	LTE B66	20	50669	5537.9	-	21.21	21.30
CA 13A-66C	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	50667	5537.7	LTE B66	20	50669	5537.9	-	21.21	21.30
CA 2A-13A-66C	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	50667	5537.7	LTE B66	20	50669	5537.9	-	21.20	21.30
CA 13A-66A-66A	LTE B13	10	23230	762	64QAM	1	0	5230	751	LTE B66	20	50665	5537.5	LTE B66	20	50667	5537.7	LTE B66	20	50669	5537.9	-	21.30	21.30

1.3.4

LTE Band 14 as PCC

Table 7
Output Powers – Ant 1

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	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 DCA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-14A-66A-66A	LTE B14	10	23330	793	QPSK	1	49	S330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.16	21.20
CA 2A-2A-14A-30A-66A	LTE B14	10	23330	793	QPSK	1	49	S330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	6620	2355	LTE B66	20	66786	2145	21.11	21.20
CA 2A-14A-30A-66A-66A	LTE B14	10	23330	793	QPSK	1	49	S330	763	LTE B2	20	900	1960	LTE B30	10	6620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	21.12	21.20

Table 8
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	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]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power with DCA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 2A-2A-14A-66A-66A	LTE B14	10	23330	793	16QAM	1	49	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.84	19.90				
CA 2A-2A-14A-30A-66A	LTE B14	10	23330	793	16QAM	1	49	5330	763	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	6620	2355	LTE B66	20	66786	2145	19.80	19.90				
CA 2A-14A-30A-66A-66A	LTE B14	10	23330	793	16QAM	1	49	5330	763	LTE B2	20	900	1960	LTE B30	10	6620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	19.82	19.90				

1.3.5

LTE Band 5 as PCC

Table 9
Output Powers – Ant 1

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 DCA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 5A-7A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B7	20	3100	2605	-	-	-	-	-	-	-	-	-	-	-	-	-	20.58	20.59	
CA 5A-25A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B25	20	8305	1902.5	-	-	-	-	-	-	-	-	-	-	-	-	-	20.58	20.59	
CA 5A-6A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B6	20	4000	2005	-	-	-	-	-	-	-	-	-	-	-	-	-	20.58	20.59	
CA 5A-46A (1)	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	20.59	20.59	
CA 5A-46A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	20.58	20.58	
CA 2C-5A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	-	20.44	20.59
CA 4A-8B (1)	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	5	2577	885.7	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	-	20.47	20.59
CA 5A-7A-7A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B7	20	3100	2605	-	-	-	-	-	-	-	-	-	-	-	-	-	20.45	20.59	
CA 5A-7C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B7	20	3100	2605	LTE B7	20	2002	2629.2	-	-	-	-	-	-	-	-	-	-	20.42	20.59
CA 5A-6C (1)	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B6	20	50665	5537.5	LTE B46	20	50667	5517.7	-	-	-	-	-	-	-	-	-	20.59	20.59	
CA 2A-5A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	20.53	20.59	
CA 5A-6A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B46	20	50665	5537.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	-	20.58	20.59	
CA 4A-8A (1)	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B4	20	2175	2132.5	LTE B4	10	2250	2150	-	-	-	-	-	-	20.53	20.59
CA 5A-6C (1)	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B6	20	50665	5537.5	LTE B46	20	50667	5517.7	-	-	-	-	-	-	-	-	-	20.58	20.59	
CA 5A-6A-66C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B66	20	66786	2145	LTE B66	5	67168	2183.2	LTE B66	15	67261	2182.5	-	-	-	-	-	-	20.48	20.59
CA 5A-6A-66C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B66	20	66786	2145	LTE B66	20	67088	2193.2	LTE B66	20	67236	2190	-	-	-	-	-	-	20.47	20.59
CA 2A-2A-5A-5A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	20.44	20.59
CA 2A-5A-5A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B4	20	2175	2132.5	-	-	-	-	-	-	20.46	20.59
CA 2A-4A-5A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	-	-	20.49	20.59
CA 2A-5A-66C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	-	-	-	-	-	-	20.58	20.59
CA 4A-4A-5A-30A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	LTE B30	10	6620	2355	-	-	-	-	-	-	20.43	20.59
CA 5A-6C-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B66	20	50665	5537.5	LTE B46	20	50667	5517.7	LTE B66	20	66786	2145	-	-	-	-	-	-	20.49	20.59
CA 2A-4A-5A-30A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B30	10	6620	2355	-	-	-	-	-	-	20.43	20.59
CA 2A-5A-5A-66A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	67236	2190	20.53	20.59		
CA 2A-5A-5A-66B	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	20.50	20.59		
CA 2A-5A-5A-66C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	20.48	20.59		
CA 2A-5A-46D	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B46	20	50665	5537.5	LTE B46	20	50667	5517.7	LTE B46	20	50663	5557.3	20.57	20.59		
CA 2A-5B-66C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B66	15	66786	2145	LTE B66	5	66879	2154.3	20.58	20.59		
CA 2A-5B-66C	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	66984	2164.8	20.58	20.59		
CA 5A-6A-66A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B66	20	66786	2145	LTE B66	20	67236	2190	20.41	20.59		
CA 5A-6C-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B66	20	50665	5537.5	LTE B46	20	50667	5517.7	LTE B66	20	66786	2145	LTE B66	20	67236	2190	20.56	20.59		
CA 5B-30A-66A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B30	10	6620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	20.40	20.59		
CA 2A-2A-5A-30A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B2	20	700	1940	LTE B30	10	6620	2355	LTE B66	20	66786	2145	20.51	20.59		
CA 2A-5A-30A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B2	20	900	1960	LTE B30	10	6620	2355	LTE B66	20	66786	2145	LTE B66	20	67236	2190	20.46	20.59		
CA 2A-5B-30A-66A	LTE B5	5	20625	846.5	16QAM	1	24	2625	891.5	LTE B5	10	2553	884.3	LTE B2	20	900	1960	LTE B30	10	6620	2355	LTE B66	20	66786	2145	20.44	20.59		

Table 10
Output Powers – Ant 3

Combination	PCC Band	PCC BW [MHz]	PCC [UL/CR Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC 1				SCC 2				SCC 3				SCC 4				Power																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										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 SC CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CA-5A-7A	LTE BB	5	20425	826.5	QPSK	1	0	2425	871.5	LTE B7	20	3100	2605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LTE Band 26 as PCC

Table 11
Output Powers – Ant 1

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	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 7A-26A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	LTE B7	20	8100	2655	-	-	-	-	20.60	20.57
CA 25A-26A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	LTE B25	20	8365	1962.5	-	-	-	-	20.46	20.57
CA 26A-41A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	LTE B41	20	40620	2593	-	-	-	-	20.58	20.57
CA 7A-7A-26A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	LTE B7	20	8100	2655	LTE B7	20	2850	2630	20.31	20.57
CA 25A-25A-26A	LTE B26	5	27015	846.5	64QAM	1	0	9015	891.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	20.40	20.56
CA 26A-41C	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	20.55	20.57

Table 12
Output Powers – Ant 3

Combination	PCC									SCC 1				SCC 2				Power	
	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 7A-26A	LTE B26	10	26740	819	QPSK	25	25	8740	864	LTE B7	20	3100	2655	-	-	-	-	20.22	20.30
CA 25A-26A	LTE B26	10	26740	819	QPSK	25	25	8740	864	LTE B25	20	8365	1962.5	-	-	-	-	20.24	20.30
CA 26A-41A	LTE B26	10	26740	819	QPSK	25	25	8740	864	LTE B41	20	40620	2593	-	-	-	-	20.21	20.30
CA 7A-7A-26A	LTE B26	10	26740	819	QPSK	25	25	8740	864	LTE B7	20	3100	2655	LTE B7	20	2850	2630	20.25	20.30
CA 25A-25A-26A	LTE B26	3	26705	815.5	QPSK	8	0	8705	860.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	20.28	20.30
CA 26A-41C	LTE B26	10	26740	819	QPSK	25	25	8740	864	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	20.28	20.30

1.3.7

LTE Band 66 as PCC

Table 13
Output Powers – Ant 2A

Combination	PCB Band	PCC										SCC-1				SCC-2				SCC-3				SCC-4				SCC-5				Power	
		PCC BW [MHz]	PCU (Ch.)	PCU (F)	Mod.	PCU BW [MHz]	PCU Ch. Offset	PCU (Ch.)	SCC (Ch. Freq. [MHz])	SCC BW [MHz]	SCC (Ch.)	SCC (Ch. Freq. [MHz])	SCC Band	SCC BW [MHz]	SCC (Ch.)	SCC (Ch. Freq. [MHz])	SCC Band	SCC BW [MHz]	SCC (Ch.)	SCC (Ch. Freq. [MHz])	SCC Band	SCC BW [MHz]	SCC (Ch.)	SCC (Ch. Freq. [MHz])	SCC Band	SCC BW [MHz]	SCC (Ch.)	SCC (Ch. Freq. [MHz])	LTE Tx Power [dBm]	LTE Single Carrier Power [dBm]			
CA_2A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_12A-66A-12	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_12A-66A-12	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	1	66	6636	2120	1.866	20	900	1960	14.4	14.4	
CA_2A-66A-66A	1	1.866	3	13072	1220	4QAM	1																										

FCC ID: BCGA2068	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019-01/21/2020	DUT Type: Tablet Device	APPENDIX F: Page 6 of 33

Output Powers – Ant 2B

[illegible]

Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC										SCC1										SCC2										SCC3										SCC4										SCC5										Power	
			PCC [DL/UL Freq. (MHz)]	PCC CA	Mod.	PCC CA RB	PCC CA 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 [UL] Channel	SCC [UL] Freq. (MHz)	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. (MHz)	SCC Band	SCC BW [MHz]	SCC [UL] Channel	SCC [UL] Freq. (MHz)	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. (MHz)	SCC Band	SCC BW [MHz]	SCC [UL] Channel	SCC [UL] Freq. (MHz)	LTE Tx Power (dBm)	LTE Sigs Tx Power (dBm)																													
CA 2A-66A	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	20	66B36	1960																					14.49	14.49																													
CA 2A-66A-11A	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B112	10	66B36	1960																					14.49	14.49																													
CA 2A-66A-11A-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B112	10	66B36	1960																					14.49	14.49																													
CA 2A-66A-66A	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	20	67236	2160	LTE B66	20	66B36	1960																		14.49	14.49																												
CA 2A-66A-66A-11A	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	20	67236	2160	LTE B66	20	66B36	1960																		14.49	14.49																												
CA 2A-66A-66A-11A-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	20	67236	2160	LTE B66	20	66B36	1960																		14.49	14.49																												
CA 2A-66A-66B	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960														14.49	14.49																												
CA 2A-66A-66B-11A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LTE B66	20	130927	1720	QAM64	1	50	66B36	2120	LTE B66	5	67248	2160	LTE B66	15	67261	2160	LTE B2	20	66B36	1960																																											

FCC ID: BCGA2068

Test Dates:

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SAR EVALUATION REPORT

DUT Type:

Tablet Device

Reviewed by:

Quality Manager

APPENDIX F:

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REV 21 3 M

REV 21.5 M
02/15/2019

Output Powers – Ant 4B

[illegible]

1.3.8

LTE Band 25 as PCC

Output Powers – Ant 2A

Combination	PCC										SCC 1			SCC 2			SCC 3			SCC 4			Power					
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx Power (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 25A-25A	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B85	10	2526	880.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-25A-1A	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B85	10	2526	880.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-25A-2A	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B85	10	2526	880.5	-	-	-	-	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-40A	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B40	20	S0660	507.5	-	-	-	-	-	-	-	-	-	-	-	-	-	15.05	15.05
CA 25A-25A-25A	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B25	20	B140	1540	LTE B25	5	B885	1540	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-25A-1A-1A	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B25	20	B140	1540	LTE B40	20	S0660	507.5	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-41C	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B41	20	B1420	2693	LTE B41	20	S0422	257.2	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-25A-41C	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B41	20	B1420	2693	LTE B41	20	S0422	257.2	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-25A-41C-1D	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B25	20	B140	1540	LTE B41	20	S0422	257.2	-	-	-	-	-	-	-	-	-	14.83	14.83
CA 25A-25A-41C-1D-1D	LTE B25	20	25500	1305	HQDM	1	0	B850	1305	LTE B25	20	B140	1540	LTE B41	20	S0422	257.2	-	-	-	-	-	-	-	-	-	14.83	14.83

Output Powers – Ant 2B

Combination	PCB Band	PCC				SCC1				SCC2				SCC3				SCC4				Power	
		PCC BW [MHz]	PCC [UL] Ch	PCC [DL] Freq [MHz]	Mod.	PCC UL BW	PCC UL RB Offset	PCC [DL] Freq [MHz]	SCC Band	SCC [DL] Freq [MHz]	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 [DL] Freq [MHz]	LTE Tx Power with CA (dBm)	LTE Single Carrier Tx Power (dBm)	
CA 3A-25A	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B35	10	2605	881.5	-	-	-	-	-	-	-	-	-	
CA 17A-75A	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	14.07	14.08	
CA 25A-26A	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B26	10	8895	876.5	-	-	-	-	-	-	-	14.08	14.08	
CA 25A-40A	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B40	20	50065	5037.5	-	-	-	-	-	-	-	14.08	14.08	
CA 25A-25A-26A	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B25	20	8140	1940	LTE B26	5	8895	876.5	-	-	-	13.88	13.88	
CA 25A-25A-43A	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B43	20	8140	1940	LTE B43	20	40020	2593	-	-	-	13.88	14.08	
CA 25A-43C	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B43	20	40020	2593.2	-	-	-	-	-	-	-	14.09	14.09	
CA 25A-46C	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B46	20	50065	5037.5	LTE B46	20	50047	5017.5	-	-	-	14.05	14.08	
CA 25A-25A-41D	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B25	20	8140	1940	LTE B41	20	40020	2593	LTE B41	20	40422	2593.2	13.89	14.08
CA 25A-46C-41D	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B46	20	50047	5017.5	LTE B46	20	40020	2593.5	LTE B46	20	40020	2593.2	14.04	14.08
CA 25A-25A-41D	LTE B25	20	26590	1905	QPSK	1	99	8950	1905	LTE B25	20	8140	1940	LTE B41	20	40422	2593.2	LTE B41	20	40018	2522.8	13.83	14.08

FCC ID: BCGA2068	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019-01/21/2020	DUT Type: Tablet Device	APPENDIX F: Page 8 of 33

Table 19
Output Powers – Ant 4A

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch	PCC [UL] Freq. [MHz]	PCC Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				Power					
									SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
CA 5A-25A	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B5	10	2505	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.86	14.90	
CA 12A-25A	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.86	14.90	
CA 25A-25A	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B26	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.86	14.90	
CA 25A-46A	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.90	14.90	
CA 25A-25A-25A	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B25	20	8140	1940	LTE B26	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	14.90	14.90
CA 25A-25A-43A	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B25	20	8140	1940	LTE B41	20	40422	2593	-	-	-	-	-	-	-	-	-	-	-	14.86	14.90
CA 25A-43C	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	-	-	-	-	-	-	-	-	-	-	-	14.86	14.90
CA 25A-46C	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B46	20	50065	5537.5	LTE B46	20	50067	5517.7	-	-	-	-	-	-	-	-	-	-	-	14.86	14.90
CA 25A-25A-43C	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B25	20	8140	1940	LTE B41	20	40422	2593	-	-	-	-	-	-	-	-	-	-	-	14.72	14.90
CA 25A-46D	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B46	20	50065	5537.5	LTE B46	20	50067	5517.7	LTE B46	20	40422	2573.2	-	-	-	-	-	-	-	14.76	14.90
CA 25A-25A-46D	LTE B25	20	26500	1905	QPSK	1	0	8590	1985	LTE B25	20	8140	1940	LTE B41	20	40422	2573.2	LTE B41	20	40420	2593	-	-	-	-	-	-	-	14.86	14.90

Table 20
Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch	PCC				PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				Power			
				PCC [UL] Freq. [MHz]	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]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)		
CA 5A-25A	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B5	10	2526	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.08	14.12	
CA 12A-25A	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.05	14.12	
CA 25A-25A	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B25	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.02	14.12	
CA 25A-4A	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.05	14.12	
CA 25A-25A-25A	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B25	20	8590	1985	LTE B26	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	14.07	14.12
CA 25A-25A-4A	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B25	20	8590	1985	LTE B41	20	40422	2593	-	-	-	-	-	-	-	-	-	-	-	-	14.07	14.12
CA 25A-4C	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B41	20	40422	2593	LTE B41	20	40422	2573.2	-	-	-	-	-	-	-	-	-	-	-	-	13.90	14.12
CA 25A-25A-4C	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B25	20	8590	1985	LTE B41	20	40422	2593	LTE B41	20	40422	2573.2	-	-	-	-	-	-	-	-	13.97	14.12
CA 25A-4D	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B46	20	50065	5537.5	LTE B46	20	50067	5517.7	LTE B46	20	50063	9507.3	-	-	-	-	-	-	-	-	14.14	14.12
CA 25A-25A-4D	LTE B25	15	26115	1857.5	16QAM	1	0	8115	1937.5	LTE B25	20	8590	1985	LTE B41	20	40422	2573.2	LTE B41	20	40420	2593	LTE B41	20	40418	2622.8	-	-	-	-	13.84	14.12

1.3.9

LTE Band 30 as PCC

Table 21
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC					SCC 1				SCC 2				SCC 3				SCC 4				LTE Tx Power with CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)				
			PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]			SCC [DL] Channel	SCC [DL] Freq. [MHz]		
CA 2C-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	12.13	12.27	
CA 2A-2A-25A-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B9	20	900	1960	LTE B2	20	702	1940	LTE B29	10	9715	722.5	-	-	-	-	-	-	12.14	12.27
CA 4A-4A-5A-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2590	2150	LTE B5	10	2525	881.5	-	-	-	-	-	-	12.13	12.27
CA 4A-4A-12A-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B4	20	2175	2132.5	LTE B4	10	2590	2150	LTE B12	10	5095	737.5	-	-	-	-	-	-	12.08	12.27
CA 2A-4A-5A-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	12.09	12.27
CA 2A-4A-12A-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B4	10	2175	2132.5	LTE B12	10	5095	737.5	-	-	-	-	-	-	12.11	12.27
CA 2A-2A-25A-30A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B29	10	9715	722.5	-	-	-	-	-	-	12.17	12.27
CA 2A-2A-5A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.26	12.27
CA 2A-2A-5A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.24	12.27
CA 2A-2A-12A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.19	12.27
CA 2A-2A-12A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.21	12.27
CA 2A-2A-25A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.21	12.27
CA 2A-2A-5A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B5	10	2525	881.5	LTE B5	10	2525	881.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.21	12.27
CA 2A-2B-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2463	874.3	LTE B56	20	66786	2145	-	-	12.18	12.27
CA 2A-12A-30A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B12	10	5095	737.5	LTE B56	20	66786	2145	-	-	-	-	-	-	12.20	12.27
CA 2A-14A-30A-66A-66A	LTE B30	5	27710	2310	64QAM	1	12	9820	2355	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B56	20	66786	2145	-	-	-	-	-	-	12.15	12.27

Table 22
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		Power								
				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]	LTE Tx Power with SC CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)			
CA 2C-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	12.13	12.15						
CA 2A-2A-25A-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940	LTE B29	10	9715	722.5	11.94	12.15				
CA 4A-4A-5A-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	2175	2122.5	LTE B4	20	2360	2350	LTE B30	10	2520	881.5	11.65	12.15				
CA 2A-2A-12A-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	2175	2122.5	LTE B4	20	2175	2122.5	LTE B12	10	2520	881.5	11.65	12.15				
CA 2A-4A-5A-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2122.5	LTE B6	10	2520	881.5	11.67	12.15				
CA 2A-4A-12A-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B4	20	2175	2122.5	LTE B12	10	2520	881.5	11.65	12.15				
CA 2A-2A-25A-30A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940	LTE B29	10	9715	722.5	11.94	12.15				
CA 2A-2A-30A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B29	10	9715	722.5	LTE B66	20	66780	2145	11.03	13.35				
CA 2A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B5	10	2325	881.5	LTE B5	5	2453	874.3	LTE B66	20	66780	2145	11.01	13.35				
CA 2A-2A-25A-30A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940	LTE B29	10	9715	722.5	11.94	12.15				
CA 2A-2A-12A-30A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940	LTE B12	10	9715	722.5	11.94	12.15				
CA 2A-2A-25A-30A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B2	20	702	1940	LTE B14	10	9715	722.5	11.94	12.15				
CA 2A-2A-30A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B5	10	2325	881.5	LTE B5	5	2453	874.3	LTE B66	20	66780	2145	11.08	13.35
CA 2A-2A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B5	10	2325	881.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-2A-30A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B5	10	2325	881.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130	722.5	LTE B66	20	66780	2145	11.08	13.35				
CA 2A-14A-14A-66A-66A	LTE B30	5	27710	2310	QPSK	25	25	9820	2355	LTE B2	20	900	1960	LTE B14	10	5130											

Table 24
Output Powers – Ant 4B

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 DR CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]				
CA 2C-30A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B2	20	702	1940.2	-	-	-	-	-	-	-	-	-	-	13.50	13.47		
CA 2A-2A-29A-30A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B2	20	709	1940	LTE B20	10	8715	722.5	-	-	-	-	-	-	-	13.50	13.47	
CA 4A-4A-30A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	LTE B12	10	5095	881.5	-	-	-	-	-	-	-	13.45	13.47	
CA 4A-4A-12A-30A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	LTE B12	10	5095	727.5	-	-	-	-	-	-	-	13.50	13.47	
CA 2A-4A-30A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B5	10	5095	727.5	-	-	-	-	-	-	-	13.48	13.47	
CA 2A-4A-29A-30A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B20	10	8715	722.5	-	-	-	-	-	-	-	13.50	13.47	
CA 2A-29A-30A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B20	10	8715	722.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	13.50	13.47	
CA 8B-30A-66A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	13.41	13.47	
CA 2A-2A-3A-30A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B2	20	709	1940	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	-	-	-	-	13.40	13.47
CA 2A-12A-30A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B2	20	709	1940	LTE B12	10	5095	727.5	LTE B66	20	66786	2145	-	-	-	-	13.41	13.47
CA 2A-1A-1A-30A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B12	10	5130	763	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	13.40	13.47
CA 2A-3A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	13.42	13.47
CA 2A-5B-30A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B5	10	2525	881.5	LTE B5	5	2453	874.3	LTE B66	20	66786	2145	-	-	-	-	13.41	13.47
CA 2A-12A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B12	10	5095	727.5	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	13.44	13.47
CA 2A-1A-3A-30A-66A-66A	LTE B30	10	27710	2310	QPSK	25	25	9820	2395	LTE B2	20	900	1960	LTE B14	10	5330	763	LTE B66	20	66786	2145	LTE B66	20	66786	2145	-	-	-	-	13.38	13.47

1.3.10 LTE Band 7 as PCC

Table 25
Output Powers – Ant 2A

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]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DR CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]				
CA 7B	LTE B7	15	20825	2507.5	16QAM	1	0	2825	2627.5	LTE B7	5	2918	2636.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.48	12.44		
CA 5A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.52	12.44		
CA 7A-29A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B20	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.44	12.44		
CA 7A-56A (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.48	12.44		
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	-	-	-	-	-	-	-	-	-	-	-	12.48	12.44	
CA 5A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	12.48	12.44	
CA 7A-7A-30A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B20	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	12.48	12.44	
CA 7A-46C (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	-	-	12.26	12.44	
CA 7C-46A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	-	-	12.40	12.44	
CA 7A-46D (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	-	-	12.40	12.44	
CA 7C-46C	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3348	2649.8	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	12.24	12.44
CA 2A-4A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	-	-	12.44	12.44	
CA 2A-7A-7C	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3348	2649.8	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	12.40	12.44
CA 2A-4A-7A-12A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	5095	727.5	-	-	-	-	-	-	-	-	12.44	12.44
CA 2A-7A-12A-66A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	-	-	-	-	-	-	-	12.44	12.44	
CA 2A-7A-12A-66A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B2	20	900	1960	LTE B12	10	5095	727.5	LTE B66	20	66786	2145	-	-	-	-	-	-	-	-	12.44	12.44
CA 7C-46D	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3348	2649.8	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	LTE B46	20	50665	5537.5	-	-	-	12.40	12.44	

Table 26
Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power		
				Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	LTE Tx Power with DR CA	LTE Single Carrier Power [dBm]						
CA 7B	LTE B7	15	20825	2507.5	QPSK	1	0	2825	2627.5	LTE B7	5	2918	2636.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.48	12.38	
CA 5A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.30	12.30	
CA 7A-29A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B20	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.30	12.30	
CA 7A-46A (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.25	12.30	
CA 4A-4A-7A (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	-	-	-	-	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 5A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	12.25	12.30
CA 7A-7A-30A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B20	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	12.25	12.30
CA 7A-29A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B20	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	12.25	12.30
CA 7A-46C (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	-	-	-	-	-	-	-	-	-	-	-	-	-	12.30	12.30
CA 7A-46A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	LTE B46	20	50663	5537.3	-	-	-	-	-	-	-	-	-	12.25	12.30
CA 7A-46D (1)	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B46	20	50665	5537.5	LTE B46	20	50667	5537.7	LTE B46	20	50663	5537.3	-	-	-	-	-	-	-	-	-	12.25	12.30
CA 4A-4A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B4	20	2175	2132.5	LTE B4	20	2250	2150	LTE B4	20	2250	2150	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 2A-4A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 2A-4A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 2A-4A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 2A-7A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 7A-7A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 7A-7A-7A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 7A-7A-7A-7A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 7A-7A-7A-7A-7A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30
CA 7A-7A-7A-7A-7A-7A-7A-7A-7A	LTE B7	20	20850	2510	64QAM	1	0	2850	2630	LTE B7	20	3350	2680	LTE B2	20	950	3560	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	-	12.02	12.30

Table 28
Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC		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)
				Mod.	SCC (UL) RB																						
CA 7B	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	5	2038	2036.8	-	-	-	-	-	-	-	-	-	-	-	-	13.10	13.30
CA 5A-7A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	13.27	13.30
CA 7A-26A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B25	10	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	13.26	13.30
CA 7A-46A (1)	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	-	-	-	-	13.28	13.30
CA 4A-6A-7A (1)	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B4	20	2175	2132.5	LTE B4	20	2350	2150	-	-	-	-	-	-	-	-	13.30	13.30
CA 5A-7A-7A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	3350	2680	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	13.15	13.30
CA 5A-7C	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	2090	2644.6	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	13.24	13.30
CA 7A-7A-26A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	3350	2680	LTE B25	10	8865	876.5	-	-	-	-	-	-	-	-	13.23	13.30
CA 7A-46C (1)	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	13.22	13.30
CA 7C-46A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	2095	2644.6	LTE B46	20	50065	5537.5	-	-	-	-	-	-	-	-	13.19	13.30
CA 7A-46D (1)	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	-	-	-	-	13.22	13.30
CA 7C-46C	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	2095	2644.6	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	13.21	13.30
CA 2A-4A-7A-7A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	3350	2680	LTE B4	20	2175	2132.5	-	-	-	-	-	-	-	-	13.30	13.30
CA 2A-4A-7C	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	2095	2644.6	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	-	-	-	-	13.30	13.30
CA 2A-4A-7A-12A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B2	20	900	1960	LTE B4	20	2175	2132.5	LTE B12	10	6095	737.5	-	-	-	-	13.29	13.30
CA 2A-7A-7A-26A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	3350	2680	LTE B2	20	900	1960	LTE B46	20	60785	2145	-	-	-	-	13.29	13.30
CA 2A-7A-7A-46A	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B2	20	900	1960	LTE B12	20	5095	737.5	LTE B46	20	60785	2145	-	-	-	-	13.26	13.30
CA 7C-46D	LTE B7	15	20825	2507.5	64QAM	1	0	20825	2627.5	LTE B7	20	2096	2644.6	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	LTE B46	20	50065	5537.5	13.25	13.30

1.3.11 LTE Band 41 as PCC

Table 29
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC		PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1		SCC 2		SCC 3		SCC 4		Power									
				PCC (UL) Freq. [MHz]	Mod.					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	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	14.46								
CA 5A-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B5	10	2525	881.5	-	-	-	-	-	14.47								
CA 26A-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B25	10	8865	876.5	-	-	-	-	-	14.47								
CA 41A-41C	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	14.43								
CA 41C-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41490	2680	-	14.46								
CA 26A-26A-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B25	20	8865	1862.5	LTE B25	20	8865	1862.5	-	14.47								
CA 26A-41C	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B25	20	8865	1862.5	-	14.47								
CA 26A-41C	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B25	10	8865	876.5	-	14.39								
CA 41E	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.6	-	14.45				
CA 41A-41D	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	14.47				
CA 41D-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	14.36				
CA 41C-41C	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	14.46				
CA 26A-26A-41C	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B25	20	8865	1862.5	LTE B25	20	8865	1862.5	-	14.47				
CA 41C-41D	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	14.31				
CA 41D-41C	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	14.32	14.46
CA 26A-26A-41D	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B25	20	8865	1862.5	LTE B25	20	8865	1862.5	14.46	14.46

Table 30
Output Powers – Ant 2B

Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC		PCC UL RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC 1		SCC 2		SCC 3		SCC 4		Power						
				PCC (UL) Freq. [MHz]	Mod.					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	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	41490	2680					14.30	14.30					
CA 5A-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B5	10	2525	881.5					14.18	14.18					
CA 26A-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B25	10	8865	876.5					14.19	14.20					
CA 41A-41C	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680		14.19	14.20				
CA 41C-41A	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	41490	2680		14.19	14.20				
CA 26A-26A-41A	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	LTE B25	20	8865	1862.5	LTE B25	20	8865	1862.5		14.19	14.20				
CA 26A-41C	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5		14.05	14.20				
CA 26A-41C	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	10	8865	876.5		14.16	14.20				
CA 41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40119	2542.9	LTE B41	20	40317	2562.7		14.20	14.19
CA 41A-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680		14.20	14.20				
CA 41D-41A	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41C-41C	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41C	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41C-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41C-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41E-41D	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 41D-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B41	20	40317	2542.9	LTE B41	20	41490	2680		14.20	14.20
CA 26A-26A-41E	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	LTE B41	20	39948	2520.4	LTE B25	20	8865	1862.5	LTE B41	20	4149				

Table 32
Output Powers – Ant 4B

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 41A-41A (1)	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	15.87	15.90			
CA 5A-41A	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	15.87	15.90			
CA 25A-41A	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B26	20	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	15.85	15.90			
CA 41A-41C	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	15.82	15.90			
CA 41C-41A	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41490	2680	-	-	-	-	-	-	-	-	15.84	15.90			
CA 25A-25A-41A	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B26	20	8865	1862.5	LTE B26	20	8865	1862.5	-	-	-	-	-	-	-	-	15.73	15.90			
CA 25A-41C	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B26	20	8365	1862.5	-	-	-	-	-	-	-	-	15.74	15.90			
CA 41A-41C	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B26	20	8865	876.5	-	-	-	-	-	-	-	-	15.88	15.90			
CA 41E	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	40344	2565.4	-	-	-	-	15.88	15.90			
CA 41A-41D	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.81	15.90			
CA 41D-41A	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	-	-	-	-	15.86	15.90			
CA 41C-41C	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	-	-	-	-	15.87	15.90			
CA 25A-25A-41C	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	-	-	-	-	15.72	15.90			
CA 41C-41D	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40344	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	15.90	15.90			
CA 41D-41C	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	15.90	15.90			
CA 25A-25A-41D	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	15.90	15.90			

1.3.12

LTE Band 41 PC2 as PCC

Table 33
Output Powers – Ant 2A

Combination	PCC Band	PCC BW [MHz]	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] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]								
CA 41A-41A (1)	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.92	14.93
CA 5A-41A	LTE B41 PC2	20	39750	2506	64QAM	1	0	39750	2506	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.14	14.90	
CA 25A-41A	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B26	20	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.20	14.93	
CA 41A-41C	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	14.92	14.93	
CA 41C-41A	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	14.38	14.92	
CA 25A-25A-41A	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	-	-	-	-	-	-	-	-	-	-	-	-	14.49	14.92	
CA 25A-41C	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B26	20	8365	1862.5	-	-	-	-	-	-	-	-	-	-	-	-	14.44	14.92	
CA 25A-41C	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B26	20	8865	876.5	-	-	-	-	-	-	-	-	-	-	-	-	14.39	14.92	
CA 41E	LTE B41 PC2	15	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7	-	-	-	-	-	-	-	-	14.96	14.91	
CA 41A-41D	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	-	-	-	-	14.44	14.92	
CA 41D-41A	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40092	2540.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	14.44	14.92	
CA 41C-41C	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	14.84	14.92	
CA 25A-25A-41C	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	-	-	-	-	-	-	-	-	14.44	14.92	
CA 41C-41D	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40094	2540.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	14.90	14.92	
CA 41D-41C	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40092	2540.2	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	14.10	14.92	
CA 25A-25A-41D	LTE B41 PC2	10	39750	2506	64QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40092	2540.2	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	-	-	-	-	14.92	14.92	

Table 34
Output Powers – Ant 2B

Combination		PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	PCC				SCC 1			SCC 2			SCC 3			SCC 4			LTE Tx Power with DL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
						Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel			SCC [DL] Freq. [MHz]
CA 41A-41A (1)	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	41490	2680	-	-	-	-	-	-	-	-	14.18	14.18	
CA 5A-41A	LTE B41 PC2	20	39750	2506	16QAM	1	0	39750	2506	LTE B5	10	2525	881.5	-	-	-	-	-	-	-	-	13.86	14.14	
CA 25A-41A	LTE B41 PC2	20	39750	2506	16QAM	1	0	39750	2506	LTE B26	20	8865	876.5	-	-	-	-	-	-	-	-	15.09	14.18	
CA 41A-41C	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	-	-	-	13.87	14.18	
CA 41C-41A	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	41490	2680	-	-	-	-	13.89	14.18	
CA 25A-25A-41A	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	-	-	-	-	13.18	14.18	
CA 25A-41C	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B26	20	8365	1862.5	-	-	-	-	13.67	14.18	
CA 25A-41C	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B26	20	8865	876.5	-	-	-	-	13.79	14.18	
CA 41E	LTE B41 PC2	15	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39921	2523.1	LTE B41 PC2	20	40119	2542.9	LTE B41 PC2	20	40317	2562.7	-	13.90	14.15
CA 41A-41D	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	13.80	14.18
CA 41D-41A	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40092	2540.2	LTE B41 PC2	20	41490	2680	-	14.09	14.18
CA 41C-41C	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680	-	13.80	14.18
CA 25A-25A-41C	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B26	20	8365	1862.5	LTE B26	20	8865	1862.5	-	13.18	14.18
CA 41C-41D	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40092	2540.2	LTE B41 PC2	20	41490	2680	-	14.09	14.18
CA 25A-41D	LTE B41 PC2	10	39750	2506	16QAM	1	0	39750	2506	LTE B41 PC2	20	39948	2520.4	LTE B41 PC2	20	40092	2540.2	LTE B26	20	8365	1862.5	-	13.67	14.18

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 BW [MHz]	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 Power with CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA 4A-41A (1)	LTE B41 PC2	20	40620	2593	1560M	1	0	40620	2593	LTE B41 PC2	20	41490	2680												13.90	13.90
CA 5A-41A	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B8	10	2525	881.5												13.60	13.50
CA 5A-25A	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B8	10	2525	881.5												13.60	13.50
CA 41A-41C	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680								13.89	13.90
CA 41C-41A	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	39750	2506								13.84	13.50
CA 4A-25A-41A	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B8	10	2525	881.5	LTE B8	10	8900	1985								13.80	13.50
CA 25A-41C	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40818	2612.8	LTE B25	20	8900	1982.5								13.90	13.90
CA 25A-41C	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40818	2612.8	LTE B25	20	8900	1982.5								13.87	13.50
CA 41A-41D	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	40818	2612.8				13.87	13.90
CA 41A-41D	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680				13.89	13.90
CA 41D-41A	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	40818	2612.8	LTE B41 PC2	20	41490	2680				13.87	13.90
CA 41A-25A-41C	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680				13.89	13.90
CA 41A-41D	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680				13.87	13.90
CA 41A-41D	LTE B41 PC2	20	40620	2593	1600M	1	0	40620	2593	LTE B41 PC2	20	40422	2573.2	LTE B41 PC2	20	40818	2612.8	LTE B25	20	8900	1985				13.80	13.90

1.3.13 LTE Band 48 as PCC

Output Powers – Ant 1

[illegible]

Output Powers – Ant 3

Combination	FCC Band	PCC R/W [MHz]	PCC				S1C1				S2C2				S3C3				S4C4				S5C5				Power		
			PCC (LA) Ch	PCC (LS) Freq [MHz]	Mod.	PCC UAR R#	PCC UAR Offset	PCC (CA) Channel	PCC (DL) Freq [MHz]	PCC (UL) Freq [MHz]	S1C1 Band	S1C1 (CA) Channel	S1C1 (DL) Freq [MHz]	S1C1 (UL) Freq [MHz]	S2C2 Band	S2C2 (CA) Channel	S2C2 (DL) Freq [MHz]	S2C2 (UL) Freq [MHz]	S3C3 Band	S3C3 (CA) Channel	S3C3 (DL) Freq [MHz]	S3C3 (UL) Freq [MHz]	S4C4 Band	S4C4 (CA) Channel	S4C4 (DL) Freq [MHz]	S4C4 (UL) Freq [MHz]	S5C5 Band	S5C5 (CA) Channel	S5C5 (DL) Freq [MHz]
CA 5A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B5	31	5250	5883.5														38.45	38.45	
CA 2A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	LTE B20	30	5000	5500										38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B13	10	5230	5853	LTE B20	30	5000	5500										38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	CA20A	20	5534.5	5668.5	CA20A	20	5000	5500	LTE B20	30	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40	35	5625.5	5647.5	64QAM	1	0	5625.5	5647.5	LTE B40	20	5534.5	5668.5	CA20A	20	5000	5500	CA20A	20	5000	5500						38.45	38.45	
CA 40A-40A-40A	LTE B40																												

Output Powers – Ant 2B

Combination	PCB Band	PCB BW [MHz]	PCC				SCS1				SCS2				SCS3				SCS4				SCS5				Power	
			PCB (LH) Ch	PCB (RL) Freq [MHz]	Mod.	PCB IAB RB Offset	PCB (DL) Channel	PCB (DL) Freq [MHz]	SCB Band	SCB BW [MHz]	SCB (DL) Channel	SCB (DL) Freq [MHz]	SCB Band	SCB BW [MHz]	SCB (DL) Channel	SCB (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]	LTx Power with CA Excluded	LTx Single Carrier Power [dBm]		
CA 5A-5B	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C-5D	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C-5D	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C-5D	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D-5E	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D-5E	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C-5D-5E	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C-5D-5E	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C-5D-5E	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D-5E-5F	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D-5E-5F	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C-5D-5E-5F	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C-5D-5E-5F	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C-5D-5E-5F	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D-5E-5F-5G	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D-5E-5F-5G	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C-5D-5E-5F-5G	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C-5D-5E-5F-5G	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C-5D-5E-5F-5G	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D-5E-5F-5G-5H	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D-5E-5F-5G-5H	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C-5D-5E-5F-5G-5H	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C-5D-5E-5F-5G-5H	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C-5D-5E-5F-5G-5H	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D-5E-5F-5G-5H-5I	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D-5E-5F-5G-5H-5I	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 1A-1B-5A-5B-5C-5D-5E-5F-5G-5H-5I	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 3A-3B-5A-5B-5C-5D-5E-5F-5G-5H-5I	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 4A-4B-5A-5B-5C-5D-5E-5F-5G-5H-5I	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B1.3	10	56730	56730	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 5A-5B-5C-5D-5E-5F-5G-5H-5I-5J	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	1.7E B43	20	56650	56650	15.20	15.20	
CA 2A-2B-5A-5B-5C-5D-5E-5F-5G-5H-5I-5J	1.7E B43	20	56650	56650	QPSK	50	50	56650	56650	1.7E B43	20	56																

FCC ID: BCGA2068	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
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Table 40
Output Powers – Ant 4B

Combination	PCC Band	PCC BW [MHz]	PCC [DL] Ch	PCC [DL] Freq [MHz]	Mod.	PCC UA RB	PCC UA RB Offset	PCC [DL] Channel	PCC [DL] Freq [MHz]	SCC 1				SCC 2				SCC 3				SCC 4				SCC 5				LTE Tx Power with DL 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]	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 5A-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.30	15.30
CA 2A-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 12A-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A-4B	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30
CA 2A	LTE B48	10	55757	3601.7	64QAM	1	49	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	LTE B48	10	55757	3601.7	15.30	15.30

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.

1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 41
Output Powers – Ant 1

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]
48	10	55757	3601.7	64QAM	1	49	15.30	15.29	15.30

Table 42
Output Powers – Ant 3

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]	Max allowed Power [dBm]
48	15	56215	3647.5	64QAM	1	0	16.42	16.43	16.50

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Table 43
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]
66	20	132072	1720	64QAM	1	99	14.12	14.50
25	20	26590	1905	16QAM	1	50	14.70	15.06
7	20	20850	2510	64QAM	1	50	12.11	12.44
30	5	27710	2310	64QAM	1	12	11.90	12.27
41	20	39750	2506	16QAM	1	0	14.53	14.46
41 PC2	10	39750	2506	64QAM	1	0	14.47	14.42

Table 44
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]
66	20	132072	1720	64QAM	1	99	14.55	14.60	14.90
25	1.4	26683	1914.3	64QAM	1	2	14.09	14.10	14.10
7	20	20850	2510	64QAM	1	0	12.24	12.30	12.30
30	10	27710	2310	QPSK	25	25	13.08	13.15	13.40
41	10	39750	2506	16QAM	1	0	14.14	14.20	14.20
41 PC2	10	39750	2506	16QAM	1	0	14.15	14.18	14.20
48	20	56640	3690	QPSK	50	50	15.26	15.23	15.30

Table 45
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]	Max allowed Power [dBm]
66	20	132072	1720	16QAM	1	50	14.47	14.49	14.50
25	20	26590	1905	QPSK	1	50	14.86	14.90	14.90
7	20	20850	2510	64QAM	1	99	12.46	12.50	12.50
30	5	27710	2310	64QAM	1	24	12.69	12.70	13.20
41	15	39750	2506	QPSK	1	0	14.07	14.15	14.20
41 PC2	20	39750	2506	16QAM	1	50	14.14	14.20	14.20

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Table 46
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]	Max Allowed Power [dBm]
66	20	132072	1720	QPSK	1	0	14.01	14.05	14.50
25	15	26115	1857.5	16QAM	1	0	14.07	14.12	14.70
7	15	20825	2507.5	64QAM	1	0	13.25	13.30	13.30
30	10	27710	2310	QPSK	25	25	13.43	13.47	13.70
41	20	39750	2506	16QAM	1	99	15.80	15.90	15.90
41 PC2	20	40620	2593	16QAM	1	0	15.79	15.90	15.90
48	10	55290	3555	QPSK	1	49	16.15	16.23	16.30

1.4.2 LTE Band 71 as PCC

Table 47
Output Powers – Ant 1

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.	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 [4A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	-	-	-	-	-	-	-	19.77	19.80	
CA [2A]-[4A]-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	19.76	19.80
CA [2A]-[2A]-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	-	-	-	19.80	19.80
CA [2A]-[66A]-[66A]-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	-	-	-	19.77	19.80
CA [2A]-[66C]-71A	LTE B71	20	133297	680.5	QPSK	1	99	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	-	-	-	19.78	19.80

Table 48
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 [4A]-[4A]-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	2x2	LTE B4	20	2175	2132.5	4x4	LTE B4	10	2350	2150	4x4	-	-	-	-	-	-	-	21.94	21.95			
CA [2A]-[4A]-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2132.5	4x4	-	-	-	-	-	-	-	21.92	21.95			
CA [2A]-[66A]-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	21.74	21.95
CA [2A]-[66B]-[66A]-71A	LTE B71	10	133297	680.5	64QAM	1	49	68761	634.5	2x2	LTE B2	20	900	1960	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66786	2145	4x4	LTE B66	20	66984	2164.8	4x4	21.72	21.95

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LTE Band 12 as PCC

Table 49
Output Powers – Ant 1

Combination		PCC										SSC1				SSC2				SSC3				SSC4				Power							
		PCC Band	PCC BW [MHz]	PCC [UL] [MHz]	PCC [DL] [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC [UL] [MHz]	PCC [DL] [MHz]	PCC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch.	SSC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with SC CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA [2A]12A (1)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (1)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82	20	900	1960	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B84	20	2175	2123.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B82S	20	8365	1982.5	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0	5095	737.5	2x2	LTE B86S	20	66786	2145	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA [2A]12A (12A)	LTE B12	10	23095	707.5	707.5	QPSK	1	0																											

Table 50
Output Powers – Ant 3

Combination		PCC										SSC 1				SSC 2				SSC 3				SSC 4				Power	
		PCC Band	PCC BW [MHz]	PCC [UL] Freq. [MHz]	PCC [UL] Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Freq. [MHz]	PCC [DL] Ant. Config.	PCC SSB BW [MHz]	PCC SSB SCDL Ch.	PCC SCDL Freq. [MHz]	PCC SCDL Ant. Config.	PCC SSB BW [MHz]	PCC SSB SCDL Ch.	PCC SCDL Freq. [MHz]	PCC SCDL Ant. Config.	PCC SSB BW [MHz]	PCC SSB SCDL Ch.	PCC SCDL Freq. [MHz]	PCC SCDL Ant. Config.	PCC SSB BW [MHz]	PCC SSB SCDL Ch.	PCC SCDL Freq. [MHz]	PCC SCDL Ant. Config.	LTE Tx Power with E-PC Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA [2A] 12A (1)	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	5000	1960	4x4	LTE B12	20	702	1940	2x2	LTE B12	20	702	1940	2x2	19.75	19.80		
CA [4A] 12A (1)	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	2175	2132.5	4x4	LTE B12	20	2175	2132.5	4x4	LTE B12	20	2175	2132.5	4x4	19.70	19.80		
CA [4A] 12A (2)	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	2175	2132.5	4x4	LTE B12	20	2175	2132.5	4x4	LTE B12	20	2175	2132.5	4x4	19.70	19.80		
CA [2A] 12A (2)	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	875	835	2x2	LTE B12	20	875	835	2x2	LTE B12	20	875	835	2x2	19.70	19.80		
CA [2A] 12A (3)	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	6678.5	2145	4x4	LTE B12	20	6678.5	2145	4x4	LTE B12	20	6678.5	2145	4x4	19.70	19.80		
CA [2A] 12A (4)	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	6678.5	2145	4x4	LTE B12	20	6678.5	2145	4x4	LTE B12	20	6678.5	2145	4x4	19.70	19.80		
CA [2C] 12A	LTE B12	10	23095	707.5	1GQAM	1	49	5095	737.5	2x2	LTE B12	20	5000	1960	4x4	LTE B12	20	702	1940	2x2	LTE B12	20	702	1940	2x2	19.75	19.80		
CA [2A] 12A 12B	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [4A] 12A 12B	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	2175	2132.5	4x4	LTE B12	10	2175	2132.5	4x4	19.70	19.80		
CA [2A] 12A 12B 12C	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T 12U	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T 12U 12V	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T 12U 12V 12W	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T 12U 12V 12W 12X	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T 12U 12V 12W 12X 12Y	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		
CA [2A] 12A 12B 12C 12D 12E 12F 12G 12H 12I 12J 12K 12L 12M 12N 12O 12P 12Q 12R 12S 12T 12U 12V 12W 12X 12Y 12Z	LTE B12	5	23035	703.5	1GQAM	1	12	5035	733.5	2x2	LTE B12	10	5307	738.7	2x2	LTE B12	10	5000	1960	4x4	LTE B12	10	700	1940	4x4	19.75	19.80		

LTE Band 13 as PCC

Table 51
Output Powers – Ant 1

Combination	PCB Band	PCC				SSC 1				SSC 2				SSC 3				SSC 4				Power					
		PCB BW [MHz]	PCC [UL] Freq. [MHz]	PCC [UL] Mod.	PCC [UL] RB	PCC [UL] RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DC Ch. Enabled [dBm]	LTE Single Carrier Tx Power [dBm]	
CA [14A]-[44A]-13A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B84	2x2	21215	21215	4x4	LTE B84	2x2	21220	21220	4x4	LTE B84	2x2	21220	21220	4x4	21.28	21.30
CA [24A]-[44A]-13A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B82	2x2	900	1960	4x4	LTE B84	2x2	21215	21215	4x4	LTE B84	2x2	21220	21220	4x4	21.28	21.30
CA [24A]-13A-46A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B82	2x2	900	1960	4x4	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [34A]-[48A]-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [34A]-[48A]-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	50065	53175	2x2	LTE B86	2x2	50065	53175	2x2	-	-	-	-	-	21.28	21.80
CA [24A]-13A-66A	LTE B13	10	21320	782	64QAM	1	0	5230	751	2x2	LTE B86	2x2	5006														

Table 52
Output Powers – Ant 3

Combination	PCC										SSC 1				SSC 2				SSC 3				SSC 4				Power				
	PCC Band	PCC BW [MHz]	PCC [UL] [MHz]	PCC [DL] [MHz]	PCC (UL) Freq. [MHz]	PCC (UL) Mod.	PCC (UL) RB	PCC (UL) RB Offset	PCC [DL] Ch.	PCC [DL] Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch. Freq. [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL] Ch. Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DC Power [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 144-144-13A	LTE-B13	10	23230	782	782	QPSK	25	12	5230	751	2x2	LTE-B4	20	21575	2152.5	4x4	LTE-B4	20	2250	2250	4x4	-	-	-	-	-	-	-	13.75	19.80	
CA 124-144-13A	LTE-B13	10	23230	782	782	QPSK	25	12	5230	751	2x2	LTE-B2	20	1900	1940	4x4	LTE-B4	20	21575	2152.5	4x4	-	-	-	-	-	-	-	-	13.75	19.80
CA 124-144-15A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B2	20	1900	1940	4x4	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-144-15A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B2	20	1900	1940	4x4	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-144-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20	20905	2107.5	2x2	-	-	-	-	-	-	-	-	15.83	19.80
CA 134-164-16A	LTE-B13	5	23230	782	782	QPSK	1	12	5230	751	2x2	LTE-B4	20	20905	2107.5	2x2	LTE-B4	20													

FCC ID: BCGA2068	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
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LTE Band 14 as PCC

Table 53
Output Powers – Ant 1

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power		
	PCC Band	PCC BW [MHz]	PCC (DL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (UL) Freq. [MHz]	DL Ant. Config.	PCC SCDL Freq. [MHz]	PCC SCDL Ch.	SCC Band	SCC BW [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.	SCC Band	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DC CA [dBm]	LTE Single Carrier Power [dBm]	
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20	1960	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	1940	444	1.8T E12	20	21.02	21.02
CA (2A) (2A) (4A) (5A)	1.8T E14	10	21330	QPSK	1	49	5330	763	242	1.8T E12	20																		

Table 54
Output Powers – Ant 3

Combination	PCB Band	PCB BW [MHz]	PCB				SCC1				SCC2				SCC3				SCC4				Power				
			PCB (DL) Freq. [MHz]	Mod.	PCB UL RB	PCB UL BW [MHz]	PCB (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.	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 (dBm)	LTE Single Carrier Tx Power (dBm)	
CA (2x2)(2x4)(4x4)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9620	2303	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)(14x14)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)(14x14)(16x16)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)(14x14)(16x16)(18x18)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)(14x14)(16x16)(18x18)(20x20)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)(14x14)(16x16)(18x18)(20x20)(22x22)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80
CA (2x2)(2x4)(4x4)(6x6)(8x8)(10x10)(12x12)(14x14)(16x16)(18x18)(20x20)(22x22)(24x24)	LTE-B14	10	21330	793	180M	1	48	5330	793	242	LTE-B2	20	900	1960	444	LTE-B2	20	700	1940	444	LTE-B30	30	9670	2340	444	18.82	18.80

LTE Band 5 as PCC

Table 55
Output Powers – Ant 1

[illegible]

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Output Powers – Ant 3

[illegible]

1.4.7

LTE Band 26 as PCC

Output Powers – Ant 1

Combination	PCC Band	PCC										SCC 1				SCC 2				Power		
		PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL1 RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled [dBm]	LTE Single Carrier Power (Tx dBm)
CA [7A]-26A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	20.50	20.57
CA [25A]-26A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	20.51	20.57
CA 26A-[41A]	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	20.52	20.57
CA [7A]-[7A]-26A	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	20.47	20.57
CA [25A]-[25A]-26A	LTE B26	5	27015	846.5	64QAM	1	0	9015	891.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	20.51	20.56
CA 26A-[41C]	LTE B26	10	26865	831.5	16QAM	1	0	8865	876.5	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	20.54	20.57

Output Powers – Ant 3

	PCC										SCC 1				SCC 2				Power			
Combination	PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL1 RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with DL CA Enabled (dBm)	LTE Single Carrier Power (dBm)
CA [7A]-26A	LTE B26	10	26740	819	QPSK	25	25	8740	864	2x2	LTE B7	20	3100	2655	4x4	-	-	-	-	-	20.20	20.30
CA [25A]-26A	LTE B26	10	26740	819	QPSK	25	25	8740	864	2x2	LTE B25	20	8365	1962.5	4x4	-	-	-	-	-	20.30	20.30
CA 26A-[41A]	LTE B26	10	26740	819	QPSK	25	25	8740	864	2x2	LTE B41	20	40620	2593	4x4	-	-	-	-	-	20.30	20.30
CA [7A]-[7A]-26A	LTE B26	10	26740	819	QPSK	25	25	8740	864	2x2	LTE B7	20	3100	2655	4x4	LTE B7	20	2850	2630	4x4	20.27	20.30
CA [25A]-[25A]-26A	LTE B26	3	26705	815.5	QPSK	8	0	8705	860.5	2x2	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	20.22	20.30
CA 26A-[41C]	LTE B26	10	26740	819	QPSK	25	25	8740	864	2x2	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	20.30	20.30

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Table 59
Output Powers – Ant 2A

02/15/2019

Output Powers – Ant 2B

[illegible]

FCC ID: BCGA2068



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Tablet Device

Reviewed by:

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Output Powers – Ant 4A

[illegible]

FCC ID: BCGA2068



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Tablet Device

Reviewed by:

Quality Manager

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Output Powers – Ant 4B

[illegible]

1.4.9 LTE Band 25 as PCC

Output Powers – Ant 2A

Combination	PCC								SCC 1				SCC 2				SCC 3				SCC 4				Power					
	PCC Band	PCC BW [MHz]	PCC [UL] Freq. [MHz]	Mod.	PCC ULAR RB	PCC UL RB Offset	PCC [DL] Ch. Cntr.	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC [DL] Ch. Cntr.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. Cntr.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch. Cntr.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with Tx CA	LTE Single Carrier Tx Power (Enb) [dBm]		
CA 5A/25A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B4	20	2725	821.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 12A/25A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B12	10	5995	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00		
CA 25A/28A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B28	10	8865	876.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	15.00	15.00		
CA 25A/45A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B46	10	5265	5337.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	14.99	15.00		
CA 25A/25A/28A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B25	20	8140	1940	4x4	LTE B28	5	8865	876.5	2x2	-	-	-	-	-	-	-	-	15.03	15.00	
CA 25A/25A/46A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B25	20	8140	1940	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40620	2593	4x4	LTE B4	20	40422	2573.2	15.05	15.00
CA 25A/46A	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40422	2573.2	4x4	LTE B4	20	40422	2573.2	15.02	15.00
CA 25A/46C	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B46	20	50065	5337.5	2x2	LTE B40	20	50467	5337.7	2x2	-	-	-	-	-	-	-	14.92	15.00		
CA 25A/44C	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B25	20	8140	1940	4x4	LTE B41	20	40620	2593	4x4	LTE B4	20	40422	2573.2	4x4	LTE B4	20	40422	2573.2	14.91	15.00
CA 25A/43D	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B41	20	40422	2573.2	4x4	LTE B40	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	LTE B4	20	40422	2573.2	14.94	15.00
CA 25A/44D	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B41	20	40422	2573.2	4x4	LTE B40	20	40620	2593	4x4	LTE B41	20	40422	2573.2	4x4	LTE B4	20	40422	2573.2	14.93	15.00
CA 25A/43D/44D	LTE B25	20	26190	1500	1	50	8590	1985	4x4	LTE B25	20	8140	1940	4x4	LTE B41	20	40422	2573.2	4x4	LTE B41	20	40620	2593	4x4	LTE B41	20	40422	2573.2	14.94	15.00

FCC ID: BCGA2068



SAR EVALUATION REPORT

DUT Type:
Tablet Device

Reviewed by:

Quality Manager

APPENDIX F:
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Output Powers – Ant 2B

Combination	PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power	
	PCC Band	PCC BW [MHz]	PCC [UL Freq. [MHz]]	PCC [DL Freq. [MHz]]	PCC UARL RB	PCC UL RB Offset	PCC [DL/CU. [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.	SCC Band	SCC BW [MHz]	SCC [DL Freq. [MHz]]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL/CU. [MHz]]	DL Ant. Config.	LTE Tx Power with 0 CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]		
CA 5A/25A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	10	2325	881.5	2x2	-	-	-	-	-	-	-	-	-	-	14.08	14.08	
CA 12A/25A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B12	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	14.08	14.08	
CA 25A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8865	878.5	2x2	-	-	-	-	-	-	-	-	-	-	14.08	14.08	
CA 25A/40A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B40	20	5095	5337.5	2x2	-	-	-	-	-	-	-	-	-	-	14.08	14.08	
CA 25A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B20	5	8865	878.5	2x2	-	-	-	-	-	-	14.08	14.08
CA 25A/20A/40A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/20A/40A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/26A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/26A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/26A/26A/26A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20	40620	2593	4x4	-	-	-	-	-	-	13.96	14.08
CA 25A/40A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/20A/26A/26A/26A/26A/26A/26A/20A	LTE B20	20	26100	1905	QPSK	1	99	8300	1985	4x4	LTE B20	20	8140	1940	4x4	LTE B40	20											

Table 65
Output Powers – Ant 4A

Combination	PCB Band	PC1										SC1				SC2				SC3				SC4				Power								
		PCB BW [MHz]	PC1 [UL] Freq. [MHz]	PC1 [DL] Freq. [MHz]	Mod.	OPSK	PC1 UL RB	PC1 UL RB Offset	PC1 [DL] Ch.	PC1 [DL] Freq. [MHz]	DL Ant. Config.	SCB Band	SCB BW [MHz]	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	DL Ant. Config.	SC Band	SCB BW [MHz]	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	DL Ant. Config.	SC Band	SCB BW [MHz]	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	DL Ant. Config.	SC Band	SCB BW [MHz]	SCC [DL] Freq. [MHz]	SCC [DL] Ch.	DL Ant. Config.	LTE Tx Power with UL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]			
CA B4/B26	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	10	2325	881.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80		
CA L2A/B26	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	10	5095	737.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80	
CA L2A/B26	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	10	8865	878.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80	
CA L2A/B26	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	10	12635	913.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80	
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	8140	1940	4x4	LTE B26	1	8865	878.5	2x2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	8140	1940	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1	50	8500	1985	4x4	LTE B25	20	42020	2393	4x4	LTE B41	20	42020	2393	4x4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80	14.80
CA L2A/B26/26A	LTE B25	20	261000	1905	QPSK	1																														

Table 66
Output Powers – Ant 4B

[illegible]

1.4.10

LTE Band 30 as PCC

Table 67
Output Powers – Ant 2A

[illegible]

FCC ID: BCGA2068

Test Dates: 12/16/2019-01/21/2020



DUT Type:	Tablet Device
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SAR EVALUATION REPORT

Reviewed by:	Quality Manager
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APPENDIX F:
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Output Powers – Ant 2B

Combination	PCB Band	PCC 1				PCC 2				SSC 1				SSC 2				SSC 3				SSC 4				Power						
		PCC BW [MHz]	PCC [fch. Freq. [MHz]]	PCC [UL Freq. [MHz]]	Mod.	PCC BW [MHz]	PCC [fch. Freq. [MHz]]	PCC [UL Freq. [MHz]]	Mod.	PCC BW [MHz]	PCC [DL Freq. [MHz]]	DL Ant. Config.	PCC BW [MHz]	PCC [DL Freq. [MHz]]	DL Ant. Config.	PCC BW [MHz]	PCC [DL Freq. [MHz]]	DL Ant. Config.	PCC BW [MHz]	PCC [DL Freq. [MHz]]	DL Ant. Config.	PCC BW [MHz]	PCC [DL Freq. [MHz]]	DL Ant. Config.	PCC BW [MHz]	PCC [DL Freq. [MHz]]	DL Ant. Config.	LTE Tx Power with SCA Tx Power [dBm]	LTE Single Carrier Tx Power [dBm]			
CA [C1] [D1]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B30	20	2525	881.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B30	20	2525	881.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2	LTE-B112	20	5095	737.5	2x2	13.15	13.15
CA [D2] [D1] [D4] [D5] [D6]	LTE-B30	10	27710	2310	OPK	25	25	9620	2355	4x4	LTE-B30	20	900	1960	4x4	LTE-B30	20	700	1940	4x4	LTE-B112	20	5095	737.5	2x2							

Output Powers – Ant 4A

Combination		SCS 1										SCS 2										SCS 3										SCS 4										Power	
		CC BW [MHz]	CC [UL] Freq. [MHz]	Mod.	CC UL RB	CC UL RB Offset	CC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA (Enb) (dBm)	LTE Single Carrier Tx Power (dBm)										
CA (C1) (D1)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B2	20	700	1940	4x4	LTE B5	20	925	1885	2x2	LTE B12	20	900	1960	4x4	21.46	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	20	925	1885	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.48	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.48	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B14	20	914	1914	2x2	LTE B14	20	914	1914	2x2	LTE B14	20	914	1914	2x2	21.52	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B2	20	700	1940	4x4	LTE B5	20	925	1885	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.52	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B5	20	925	1885	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.56	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	2x2	LTE B2	20	700	1940	2x2	LTE B5	20	925	1885	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.56	12.70						
CA (1A) (1A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B4	20	2175	2125	2x2	LTE B4	20	2175	2125	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.58	12.70						
CA (1A) (1A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B5	20	2525	2515	2x2	LTE B5	20	2525	2515	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.62	12.70						
CA (1A) (1A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B5	20	2525	2515	2x2	LTE B5	20	2525	2515	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.62	12.70						
CA (1A) (1A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B5	20	2525	2515	2x2	LTE B5	20	2525	2515	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.62	12.70						
CA (2A) (1A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2125	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.58	12.70						
CA (2A) (1A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B4	20	2175	2125	2x2	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	LTE B12	20	900	1960	4x4	21.58	12.70						
CA (2A) (1A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (1A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (4A) (4A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (5A) (5A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (2A) (2A)	LTE B20	5	27710	2310	64QAM	1	24	9820	2355	4x4	LTE B2	20	900	1960	4x4	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	LTE B12	20	914	1914	2x2	21.62	12.70						
CA (2A) (2A) (3A) (3A)	LTE B20	5	27710	2310																																							

Output Powers – Ant 4B

Combination	PCB Band	PCB BW [MHz]	PCB (UL) Ch.	PCB (HL) Freq. [MHz]	PCB				SCC 1				SCC 2				SCC 3				SCC 4				Power							
					Mod.	PCB UL RB	PCB UL RB Offset	PCB (DL) Ch.	PCB (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx Power with (dBm)	LTE Single Carrier Tx Power (dBm)	
CA (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.43	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.43	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	LTE B8	20	900	1960	4A4	13.46	13.47
CA (2A) (2A) (2A) (2A)	LTE E80	25	27710	2310	QPSK	25	25	9820	2355	4A4	LTE B8	20	900	1960	4A4	LTE B																

FCC ID: BCGA2068

Test Dates:

12/16/2019-01/21/2020



SAR EVALUATION REPORT

DUT Type:

Tablet Device

Reviewed by:

Quality Manager

APPENDIX F:

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LTE Band 7 as PCC

Table 71
Output Powers – Ant 2A

Combination	PCB Band	PCC								SSC 1				SSC 2				SSC 3				SSC 4				Power						
		PCC BW [MHz]	PCC [Ch.]	PCC [UL Freq. [MHz]]	Mod.	PCC UHF RB	PCC UL RB Offset	PCC [DL Ch.]	PCC [DL Freq. [MHz]]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL Ch.]	SSC [DL Freq. [MHz]]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL Ch.]	SSC [DL Freq. [MHz]]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL Ch.]	SSC [DL Freq. [MHz]]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC [DL Ch.]	SSC [DL Freq. [MHz]]	DL Ant. Config.	LTE Tx Power with E-CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA [T3]	LTE B7	15	20820	2502.5	QAM16	1	0	2830	2622.5	4x4	LTE B7	5	2085	2622.5	4x4	LTE B7	5	2085	2622.5	4x4	LTE B7	5	2085	2622.5	4x4	LTE B7	5	2085	2622.5	4x4	18.20	18.40
CA [5A-T3]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	10	2125	2630	4x4	LTE B7	10	2125	2630	4x4	LTE B7	10	2125	2630	4x4	LTE B7	10	2125	2630	4x4	18.20	18.40
CA [5A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	10	2125	2630	4x4	LTE B7	10	2125	2630	4x4	LTE B7	10	2125	2630	4x4	LTE B7	10	2125	2630	4x4	18.20	18.40
CA [2A-T3]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [4A][4A-T3] (1)	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2175	2132.5	4x4	LTE B4	20	2175	2132.5	4x4	18.20	18.40
CA [5A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B5	10	2525	2630	4x4	LTE B5	10	2525	2630	4x4	LTE B5	10	2525	2630	4x4	18.20	18.40
CA [5A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B5	10	2525	2630	4x4	LTE B5	10	2525	2630	4x4	LTE B5	10	2525	2630	4x4	18.20	18.40
CA [7A-T3A-2A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [7A-T3A-2A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B6	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	18.20	18.40
CA [7C-T3A-4A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-T3A-T3A-2A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [7A-T3A-4A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B6	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	18.20	18.40
CA [7C-T3A-4A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B6	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	LTE B4	20	5065	5537.5	2x2	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	18.20	18.40
CA [2A-A4A-T3A-T3A]	LTE B7	20	20850	2510	QAM16	1	0	2830	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350	2630	4x4	LTE B7	20	3350									

Table 72
Output Powers – Ant 2B

Combination	PCB Band	PCB BW [MHz]	PCCL [U]	PCCH [U]	PCF [U]	PCU [U]	PCB [U]	PCCL [U]	PCCH [U]	PCF [U]	PCU [U]	SSC 1				SSC 2				SSC 3				SSC 4				Power				
												SSC Band	SSC BW [MHz]	SSC [DU]	SSC [DU]	SSC [DU]	SSC [DU]	SSC Band	SSC BW [MHz]	SSC [DU]	SSC [DU]	SSC [DU]	SSC [DU]	SSC Band	SSC BW [MHz]	SSC [DU]	SSC [DU]	SSC [DU]	SSC [DU]	SSC Band	SSC BW [MHz]	SSC [DU]
CA [70]	LTE B7	15	20820	2507.5	404M	1	0	2820	2627.5	404	LTE B05	5	2168	2168.5	2x2	LTE B05	5	2168	2168.5	2x2	LTE B05	5	2168	2168.5	2x2	LTE B05	5	2168	2168.5	2x2	12.16	12.16
CA 5A [70A]	LTE B7	20	20820	2510	404M	1	0	2820	2615	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.16	12.16
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B05	10	2165	2165.5	2x2	LTE B05	10	2165	2165.5	2x2	LTE B05	10	2165	2165.5	2x2	LTE B05	10	2165	2165.5	2x2	12.16	12.16
CA [70A-10A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.16	12.16
CA [40A-140A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B04	20	2175	2172.5	4x4	LTE B04	20	2175	2172.5	4x4	LTE B04	20	2175	2172.5	4x4	LTE B04	20	2175	2172.5	4x4	12.19	12.19
CA 5A [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	10	2165	2165.5	2x2	LTE B05	10	2165	2165.5	2x2	LTE B05	10	2165	2165.5	2x2	12.28	12.28
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.28	12.28
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.20	12.20
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.22	12.22
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.21	12.21
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.22	12.22
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.21	12.21
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.22	12.22
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.18	12.18
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.15	12.15
CA 2A [40A-170A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B02	20	3150	2160	404	LTE B02	20	3150	2160	404	LTE B04	20	2175	2172.5	4x4	LTE B02	20	2175	2172.5	4x4	12.12	12.12
CA 2A [40A-170A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B02	20	3150	2160	404	LTE B02	20	3150	2160	404	LTE B04	20	2175	2172.5	4x4	LTE B02	20	2175	2172.5	4x4	12.15	12.15
CA [20A-140A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B02	20	3150	2160	404	LTE B04	20	2175	2172.5	4x4	LTE B02	20	3150	2160	404	LTE B02	20	3150	2160	404	12.20	12.20
CA 2A [40A-170A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B02	20	3150	2160	404	LTE B02	20	3150	2160	404	LTE B04	20	2175	2172.5	4x4	LTE B02	20	2175	2172.5	4x4	12.15	12.15
CA 2A [40A-170A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B02	20	3150	2160	404	LTE B02	20	3150	2160	404	LTE B04	20	2175	2172.5	4x4	LTE B02	20	2175	2172.5	4x4	12.15	12.15
CA 2A [40A-170A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B02	20	3150	2160	404	LTE B02	20	3150	2160	404	LTE B04	20	2175	2172.5	4x4	LTE B02	20	2175	2172.5	4x4	12.15	12.15
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.27	12.27
CA [70A-20A]	LTE B7	20	20820	2510	404M	1	0	2820	2610	404	LTE B07	20	3150	2180	404	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	LTE B05	20	2165	2165.5	2x2	12.27	12.27

Table 73
Output Powers – Ant 4A

Combination	PCB Band	PCF BW [MHz]	PCF [UL] Ch.	PCF [DL] Freq. [MHz]	Mod.	PCF				SCS 1				SCS 2				SCS 3				SCS 4				Power		
						PCF UL RB	PCF UL BA	PCF [DL] Ch.	PCF [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]	DL Ant. Config.	SCS Band	SCS BW [MHz]	SCS [DL] Ch.	SCS [DL] Freq. [MHz]
CA [7B]	LTE B7	15	20820	2507.5	64QAM	1	99	2820	2627.5	4x4	LTE B07	5	2018	2618	4x4												14.46	13.90
CA [5A/7A]	LTE B7	20	20820	2510	64QAM	1	99	2820	2615	4x4	LTE B05	10	2125	2615	2x2												14.46	13.90
CA [7A]-26A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B06	10	2065	2630	2x2												14.46	13.90
CA [7A]-26A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B06	20	2065	537.5	2x2												14.46	13.90
CA [7A]-72A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B06	20	2065	2630	4x4	LTE B02	20	900	1960	4x4							14.46	13.90
CA [4A]-[4A]-[7A]-[7A]	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B04	20	2175	2122.5	4x4	LTE B04	20	2175	2130	2x2							14.50	13.90
CA [5A/7A]-72A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3150	2630	4x4	LTE B05	10	2525	881.5	2x2							12.50	13.50
CA [5A/7A]-26A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3150	2630	4x4	LTE B05	20	2635	881.5	2x2							12.50	13.50
CA [7A]-[7A]-26A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3150	2630	4x4	LTE B06	20	5065	875.5	2x2							12.50	13.50
CA [7A]-[7A]-26A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3150	2630	4x4	LTE B06	20	5047	557.7	2x2							12.50	13.50
CA [7A]-40C (1)	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B06	20	5065	557.5	2x2	LTE B06	20	5047	557.7	2x2							12.50	13.50
CA [7C]-40A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3048	2648.8	4x4	LTE B06	20	5065	557.5	2x2							12.50	13.50
CA [7A]-[7A]-56A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B06	20	5065	557.5	2x2	LTE B06	20	4630	2145	2x2							12.50	13.50
CA [7A]-40C (1)	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B06	20	5065	557.5	2x2	LTE B06	20	5047	557.7	2x2							12.48	13.90
CA [7C]-40C	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3048	2648.8	4x4	LTE B06	20	5065	557.5	2x2							12.48	13.90
CA [2A]-[4A]-[7A]	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B02	20	3150	1960	4x4	LTE B02	20	900	1960	2x2							12.50	13.10
CA [2A]-[4A]-[7A]	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B02	20	3150	1960	4x4	LTE B02	20	900	1960	2x2							12.50	13.10
CA [2A]-[4A]-[7A]-12A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B02	20	900	1960	4x4	LTE B04	20	2175	2122.5	4x4	LTE B12	10	5079	737.5	2x2		12.50	13.50
CA [2A]-[4A]-[7A]-12A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B02	20	900	1960	4x4	LTE B06	20	5065	875.5	2x2	LTE B06	20	5047	557.7	2x2		12.50	13.50
CA [2A]-[7A]-[7A]-56A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B02	20	900	1960	4x4	LTE B12	10	5079	737.5	2x2	LTE B06	20	4630	2145	4x4		12.50	13.50
CA [7C]-40A	LTE B7	20	20820	2510	64QAM	1	99	2820	2630	4x4	LTE B07	20	3048	2648.8	4x4	LTE B06	20	5065	557.5	2x2	LTE B06	20	5047	557.7	2x2		14.48	13.90

Table 74
Output Powers – Ant 4B

Combination		PCC										SCC 1				SCC 2				SCC 3				SCC 4				Power					
		PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	Mod.	PCC ULRA RB	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	LTE Tx Power with CA (dBm)	LTE Single Carrier Tx Power (dBm)
CA [T1]	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	5	2515	2615	4x4																		
CA 5A/7A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B5	10	2325	2415	2x2																	13.21	13.30
CA [T4] 2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B20	10	8865	8765	2x2																	13.23	13.30
CA [T4] 4A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B46	20	50465	5537.5	2x2																	13.25	13.30
CA [T4] 7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B46	20	50465	5537.5	2x2	LTE B2	20	820	1560	4x4												13.24	13.30
CA [4A] 4A/7A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B4	20	7135	7132.5	4x4	LTE B4	20	2350	2500	4x4												13.27	13.30
CA 5A/7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B5	10	2325	881.5	2x2												13.23	13.30
CA [T4] 7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	2996	2644.5	4x4	LTE B46	20	50465	5537.5	2x2												13.25	13.30
CA [T4] 7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B20	10	8865	876.5	2x2												13.23	13.30
CA [T4] 4A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B46	20	50465	5537.5	2x2	LTE B46	20	50467	5537.7	2x2												13.20	13.30
CA [T4] 4A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	2996	2644.5	4x4	LTE B46	20	50465	5537.5	2x2												13.22	13.30
CA [T4] 7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B46	20	50465	5537.5	2x2												13.26	13.30
CA [T4] 4A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B46	20	50465	5537.5	2x2	LTE B46	20	50467	5537.7	2x2												13.25	13.30
CA [T4] 4A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	2996	2644.5	4x4	LTE B46	20	50465	5537.5	2x2												13.21	13.30
CA 2A/4A/7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B2	20	800	1560	2x2	LTE B4	20	2135	2123.5	4x4							13.18	13.30
CA [T4] 2A/4A/7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B2	20	800	1560	2x2	LTE B4	20	2135	2123.5	4x4							13.18	13.30
CA [T4] 4A/7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE B2	20	800	1560	4x4	LTE B4	20	2135	2123.5	4x4	LTE B32	10	5035	732.5	2x2							13.12	13.30
CA 2A/4A/7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B2	20	800	1560	2x2	LTE B36	20	6036	2545	4x4							13.14	13.30
CA [T4] 2A/4A/7A/1A/2A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	3350	2680	4x4	LTE B12	10	5035	732.5	2x2	LTE B60	20	6036	2545	4x4							13.14	13.30
CA [T4] 4A/1A	LTE BT	15	2025.5	2507.5	64QAM	1	0	2825	2627.5	4x4	LTE BT	20	2996	2644.5	4x4	LTE B46	20	50465	5537.5	2x2	LTE B46	20	50467	5537.7	2x2	LTE B46	20	50363	5557.3	2x2	13.25	13.30	

FCC ID: BCGA2068



SAR EVALUATION REPORT

Reviewed by:

Quality Manager

Test Dates:
12/16/2019-01/21/2020

DUT Type:	Tablet Device
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LTE Band 41 as PCC

Table 75
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 [41A]-[41A] (1)	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	41490	2680	4x4	-	-	-	-	-	14.44	14.46
CA 5A-[41A]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	14.45	14.46
CA 26A-[41A]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B26	10	8865	876.5	2x2	-	-	-	-	-	14.49	14.46
CA [41A]-[41C]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	14.48	14.46
CA [41C]-[41A]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	41490	2680	4x4	14.34	14.46
CA [25A]-[25A]-[41A]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	14.42	14.46
CA [25A]-[41C]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	39948	2525.8	4x4	LTE B25	20	8365	1962.5	4x4	14.46	14.46
CA 26A-[41C]	LTE B41	20	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	39948	2525.8	4x4	LTE B26	10	8865	876.5	2x2	14.44	14.46

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 79 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Table 76
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 [41A]-[41A] (1)	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	41490	2680	4x4	-	-	-	-	-	14.34	14.20
CA 5A-[41A]	LTE B41	20	39750	2506	64QAM	1	50	39750	2506	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	14.20	14.18
CA 26A-[41A]	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B26	10	8865	876.5	2x2	-	-	-	-	-	14.05	14.20
CA [41A]-[41C]	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	14.20	14.20
CA [41C]-[41A]	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	39894	2520.4	4x4	LTE B41	20	41490	2680	4x4	14.20	14.20
CA [25A]-[25A]-[41A]	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	13.69	14.20
CA [25A]-[41C]	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	39894	2520.4	4x4	LTE B25	20	8365	1962.5	4x4	13.71	14.20
CA 26A-[41C]	LTE B41	10	39750	2506	16QAM	1	0	39750	2506	4x4	LTE B41	20	39894	2520.4	4x4	LTE B26	10	8865	876.5	2x2	14.15	14.20

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 80 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Table 77
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 [41A]-[41A] (1)	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41	20	41490	2680	4x4	-	-	-	-	-	14.14	14.15
CA 5A-[41A]	LTE B41	20	39750	2506	16QAM	100	0	39750	2506	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	14.07	14.09
CA 26A-[41A]	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B26	10	8865	876.5	2x2	-	-	-	-	-	14.09	14.15
CA [41A]-[41C]	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	14.00	14.15
CA [41C]-[41A]	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41	20	39921	2523.1	4x4	LTE B41	20	41490	2680	4x4	13.97	14.15
CA [25A]-[25A]-[41A]	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	14.15	14.15
CA [25A]-[41C]	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41	20	39921	2523.1	4x4	LTE B25	20	8365	1962.5	4x4	14.14	14.15
CA 26A-[41C]	LTE B41	15	39750	2506	QPSK	1	0	39750	2506	4x4	LTE B41	20	39921	2523.1	4x4	LTE B26	10	8865	876.5	2x2	13.97	14.15

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 81 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Table 78
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 [41A]-[41A] (1)	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B41	20	41490	2680	4x4	-	-	-	-	-	15.86	15.90
CA 5A-[41A]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B5	10	2525	881.5	2x2	-	-	-	-	-	15.85	15.90
CA 26A-[41A]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B26	10	8865	876.5	2x2	-	-	-	-	-	15.86	15.90
CA [41A]-[41C]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	15.88	15.90
CA [41C]-[41A]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	4x4	LTE B41	20	41490	2680	4x4	15.89	15.90
CA [25A]-[25A]-[41A]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B25	20	8365	1962.5	4x4	LTE B25	20	8590	1985	4x4	15.87	15.90
CA [25A]-[41C]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	4x4	LTE B25	20	8365	1962.5	4x4	15.84	15.90
CA 26A-[41C]	LTE B41	20	39750	2506	16QAM	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	4x4	LTE B26	10	8865	876.5	2x2	15.84	15.90

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 82 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019-01/21/2020	DUT Type: Tablet Device		APPENDIX F: Page 27 of 33

LTE Band 41 PC2 as PCC

Table 79
Output Powers – Ant 2A

Combination	PCB band	PC2										SCC 1				SCC band	SCC 2				SCC band	SCC 3				SCC band	SCC 4				L/E Tx Power (mW)	L/E Rx Power (mW)	L/E Single Carrier Tx (mW)
		PCB BW [MHz]	PC2 (CA) [MHz]	PC2 (CA) Freq. [MHz]	Mod.	PC2 LUT RB	PC2 LUT RB Offset	PC2 (CA) [MHz]	PC2 (CA) Freq. [MHz]	SCC BW [MHz]	SCC (CA) [MHz]	SCC (CA) Freq. [MHz]	SCC BW [MHz]	SCC (CA) [MHz]	SCC (CA) Freq. [MHz]		SCC BW [MHz]	SCC (CA) [MHz]	SCC (CA) Freq. [MHz]	SCC BW [MHz]		SCC (CA) [MHz]	SCC (CA) Freq. [MHz]	SCC BW [MHz]	SCC (CA) [MHz]		SCC (CA) Freq. [MHz]	SCC BW [MHz]	SCC (CA) [MHz]	SCC (CA) Freq. [MHz]			
CA 1414A(1414) (1)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BA1 PC2	20	41400	2880	44A																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2	20	39750	2500	64QAM	1	0	39750	2500	44A	LTE BS	10	2520	816	242																		
CA 1414A(1414)	LTE BA1 PC2																																

Table 80
Output Powers – Ant 2B

CA Combination		PCC										SEC 1				SEC 2				SEC 3				SEC 4				Power									
		PCC Band	PCC BW [MHz]	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	SCAR	PCC IAR #0	PCC IAR #0 Offset	PCC [UL] Ch.	PCC [DL] Freq. [MHz]	DL-Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Freq. [MHz]	DL-Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Freq. [MHz]	DL-Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Freq. [MHz]	DL-Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [DL] Freq. [MHz]	DL-Ant. Config.	LTE Tx Power [dBm]	LTE Single Carrier Tx Power [dBm]				
CA 14A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	10	41480	2500	4x4	LTE B40 PCC	10	41480	2500	4x4	LTE B40 PCC	10	41480	2500	4x4	LTE B40 PCC	10	41480	2500	4x4	LTE B40 PCC	10	41480	2500	4x4	18.15	18.15
CA 14A14A14	LTE B40 PCC	20	39750	2500	6400M	1	0	39750	2500	4x4	LTE B5	10	7225	881.5	2x2	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 26A14A14	LTE B40 PCC	20	39750	2500	6400M	1	0	39750	2500	4x4	LTE B20	10	8065	876.5	2x2	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 14A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 14A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 12A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B20	20	8365	1362.5	4x4	LTE B20	20	8365	1365	4x4	LTE B20	20	8365	1365	4x4	LTE B20	20	8365	1365	4x4	LTE B20	20	8365	1365	4x4	17.70	17.70
CA 12A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	17.70	17.70
CA 26A14A14	LTE B40 PCC	20	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B20	10	8065	876.5	2x2	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41E1	LTE B40 PCC	15	39750	2500	6400M	1	0	39750	2500	4x4	LTE B40 PCC	20	40911	2523.1	4x4	LTE B40 PCC	20	40919	2549.5	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41D14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B20	10	8365	1362.5	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	17.70	17.70
CA 12A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	17.70	17.70
CA 26A14A14	LTE B40 PCC	20	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41E1	LTE B40 PCC	15	39750	2500	6400M	1	0	39750	2500	4x4	LTE B40 PCC	20	40911	2523.1	4x4	LTE B40 PCC	20	40919	2549.5	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41D14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B20	10	8365	1362.5	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	17.70	17.70
CA 12A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	17.70	17.70
CA 26A14A14	LTE B40 PCC	20	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41E1	LTE B40 PCC	15	39750	2500	6400M	1	0	39750	2500	4x4	LTE B40 PCC	20	40911	2523.1	4x4	LTE B40 PCC	20	40919	2549.5	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41D14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B20	10	8365	1362.5	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	17.70	17.70
CA 12A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	17.70	17.70
CA 26A14A14	LTE B40 PCC	20	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41E1	LTE B40 PCC	15	39750	2500	6400M	1	0	39750	2500	4x4	LTE B40 PCC	20	40911	2523.1	4x4	LTE B40 PCC	20	40919	2549.5	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	LTE B40 PCC	20	40917	2561.7	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41D14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	LTE B40 PCC	20	41480	2500	4x4	18.15	18.15
CA 41A14A14	LTE B40 PCC	10	39750	2500	1600M	1	0	39750	2500	4x4	LTE B40 PCC	20	41480	2500.2	4x4	LTE B20	10	8365	1362.5	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	LTE B20	10	8365	1365	4x4	17.70	17.70
CA 12A14A14	LTE B40 PCC	10	3																																		

Table 81
Output Powers – Ant 4A

PCC														SSC 1				SSC 2				SSC 3				SSC 4				Power					
Combination	PCC Band	PCC BW [MHz]	PCC (UL) [MHz]	PCC (UL) BW [MHz]	Misc.	PCC LRA RB	PCC LRA RB Offset	PCC (DL) [MHz]	PCC (DL) BW [MHz]	PCC (DL) Freq [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) [MHz]	SSC (DL) BW [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) [MHz]	SSC (DL) BW [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) [MHz]	SSC (DL) BW [MHz]	DL Ant. Config.	SSC Band	SSC BW [MHz]	SSC (DL) [MHz]	SSC (DL) BW [MHz]	DL Ant. Config.	LTE Tx Power [dBm]	LTE Single Carrier Power [dBm]		
CA (F445A445)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC	20	39750	2506	160MHz	1	50	39750	2506	444	LTE B41	20	41255	1815	32x2		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444		LTE B41 PCC	20	41490	2680	444	14.15	14.20
CA (S41A41)	LTE B41 PCC</																																		

Table 82
Output Powers – Ant 4B

Combination	LTE Band	PCC						SCC 1						SCC Band	SCC 2						SCC 3						SCC 4						Power	
		PCC BW [MHz]	PCC UCI [Ch]	PCC UCI Freq. [MHz]	PCC Mod.	PCC LBT	PCC LBT OffSet	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]		SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE TxPower [dBm]	LTE Single Carrier TxPower (dBm)			
CA 14A(43A)	LTE B40	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43500	2593	4aa	LTE B41 PC2	20	43500	2593	4aa	LTE B41 PC2	20	43500	2593	4aa	LTE B41 PC2	20	43500	2593	4aa	15.68	15.90		
CA 34A(43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B5	10	2524	881.5	2x2	LTE B5	10	2524	881.5	2x2	LTE B5	10	2524	881.5	2x2	LTE B5	10	2524	881.5	2x2	15.68	15.90		
CA 28A(43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B30	10	8865	876.5	2x2	LTE B30	10	8865	876.5	2x2	LTE B30	10	8865	876.5	2x2	LTE B30	10	8865	876.5	2x2	15.68	15.90		
CA 14A(43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43500	2600	4aa	LTE B41 PC2	20	43500	2600	4aa	LTE B41 PC2	20	43500	2600	4aa	15.76	15.90		
CA 14A(43A)43A	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43502	2602.2	4aa	15.76	15.90		
CA 12A(25A,43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B25	20	8360	1962.5	4aa	LTE B25	20	8360	1985	4aa	LTE B25	20	8360	1985	4aa	LTE B25	20	8360	1985	4aa	15.68	15.90		
CA 14A(43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43502	2602.2	4aa	LTE B41 PC2	20	43502	2602.2	4aa	15.76	15.90		
CA 28A(43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B30	10	8865	876.5	2x2	LTE B30	10	8865	876.5	2x2	LTE B30	10	8865	876.5	2x2	15.68	15.90		
CA 41E1	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14A(43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2604.4	4aa	LTE B41 PC2	20	43502	2604.4	4aa	LTE B41 PC2	20	43502	2604.4	4aa	LTE B41 PC2	20	43502	2604.4	4aa	15.90	15.90		
CA 14(10A,43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)43A	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14A(43A)43A	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)43A	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)43A	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		
CA 14(10A,43A)43A	LTE B41 PC2	20	43500	2593	16QAM	1	0	43500	2593	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	LTE B41 PC2	20	43502	2617.2	4aa	15.90	15.90		

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[illegible][illegible][illegible]

Output Powers – Ant 4B

[illegible]

1.5 Downlink Carrier Aggregation with CA_41C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration 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 with only ULCA active.

1.5.1 DL Carrier Aggregation RF Conducted Powers

1.5.1.1 LTE Band 41

Output Powers – Ant 2A

Combination	PCC Band	PCC					SCC1										SCC2				Power			
		PCC BW [MHz]	PCC [UL] Ch.	Mod.	PCC UL RB	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [UL] Channel	SCC [UL] Freq. [MHz]	Mod	SCC UL RB	SCC UL RB Offset	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	ULCA Tx Power (dBm)	ULCA Tx Power (dBm)	
CA 41C-43A	LTE B41	20	40020	2593	QPSK	50	0	40620	2593	LTE B41	20	40442	2573.2	QPSK	50	50	40442	2573.2	LTE B41	20	41490	2080	13.7	13.7

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 91 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Output Powers – Ant 2B

		PCC								SCC1								SCC2				Power				
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 Band	SCC BW [MHz]	SCC [UL] Channel	SCC [UL] Freq. [MHz]	Mod	SCC UL RB	SCC UL RB Offset	SCC [DL] Channel	SCC [DL] Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [UL] Channel	SCC [UL] Freq. [MHz]	SCC [DL] Channel	SCC [DL] Freq. [MHz]	ULCA Tx Power with 3dBd CA Config. active on CC (dBm)	ULCA Tx Power (dBm)
CA 41C-41A	LTE B41	20	435055	2636.5	QPSK	50	0	435055	2636.5	LTE B41	20	435057	2636.7	QPSK	50	0	435057	2636.7	LTE B41	20	397550	2506			14.92	13.25

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 92 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Output Powers – Ant 4A

Combination	PCC Band	SC1						SC2						SC3				
		PCC BW [MHz]	PCC [L1] Ch. Freq. [MHz]	Mod.	PCC UL RB Offset	PCC [DL] Ch. Freq. [MHz]	SCB Band	SCC BW [MHz]	SCC [UL] Ch. Freq. [MHz]	SCC Mod	SCC UL RB Offset	SCC [DL] Ch. Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC [DL] Ch. Freq. [MHz]	ULCA Tx Power with add'l CA config. active on DL [dBm]	ULCA Tx Power [dBm]	
CA_4G-LTE_A1A	E-UTRA E-UTRAN 1.920 MHz	A1555	9610.8	QPSK	0	A1555	9610.8	E-UTRA E-UTRAN 1.750 MHz	A0957	9610.7	QPSK	0	A0957	9610.7	E-UTRA E-UTRAN 1.750 MHz	A0955	9610.6	23.7

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 93 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

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Output Powers – Ant 4B

Combination	PCC Band	PCC				SSC 1				SSC 2				Power										
		PCC BW [MHz]	PCC [UL] Ch.	Mod.	PCC UL RB Offset	PCC [DL] Channel	PCC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [UL] Channel	SSC [UL] Freq. [MHz]	Mod.	SSC UL RB Offset	SSC [DL] Channel	SSC [DL] Freq. [MHz]	SSC Band	SSC BW [MHz]	SSC [DL] Channel	SSC [DL] Freq. [MHz]	ULCA Tx Power with 40dB CA config. active [dBm]	ULCA Tx Power (dBm)			
CA 41C-41A	LTE B41	1	39750	2506	QPSK	1	99	39720	2506	LTE B41	20	39548	2525.8	QPSK	1	0	39548	2525.8	LTE B41	20	41480	2630	15.58	15.70

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 94 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

1.5.1.2 LTE Band 41 PC2

Table 91
Output Powers – Ant 2A

[illegible]

Table 92
Output Powers – Ant 2B

[illegible]

Table 93
Output Powers – Ant 4A

[illegible]

Table 94
Output Powers – Ant 4B

[illegible]

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.

1.5.2.1 LTE Band 41

Table 95
Output Powers – Ant 2A

	PCC									SCC 1									SCC 2				Power				
Combination	PCC Band	PCC BW [MHz]	PCC UL Ch.	PCC [UL] Freq. [MHz]	Mod.	PCC UL#	PCC UL RB Offset	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC UL Ch.	SCC [UL] Freq. [MHz]	Mod.	SCC UL #	SCC UL RB Offset	SCC [DL] Ch.	SCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [DL] Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL config.	ULCA Tx Power (dBm)		
CA [41C][41A]	LTE B41	20	40620	2593	QPSK	50	0	40620	2593	4x4	LTE B41	20	40422	2573.2	QPSK	50	50	40422	2573.2	4x4	LTE B41	20	41490	2680	4x4	13.42	13.70

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 99 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Table 96
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#	PCC UL RB Offset	PCC [DL] Ch.	PCC [DL] Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC [UL] Ch.	SCC [UL] Freq. [MHz]	Mod	SCC UL #	SCC UL RB Offset	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.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)					
CA 41C[41A]	LTE B41	20	410555	2636.5	QPSK	S0	0	410555	2636.5	4x4	LTE B41	20	40857	2616.7	QPSK	S0	0	40857	2616.7	4x4	LTE B41	20	39750	2506	4x4	13.14	13.25					

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 100 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

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Output Powers – Ant 4A

	PCC										SCC 1										SCC 2										Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL# RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod	SCC UL #	SCC UL# RB Offset	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.	ULCA Tx Power with add'l CA Config. active on DL [dBm]	ULCA Tx Power (dBm)					
CA 41C(41A)	LTE B41	20	41055	2636.5	QPSK	50	0	41055	2636.5	4x4	LTE B41	20	40857	2616.7	QPSK	50	50	40857	2616.7	4x4	LTE B41	20	39750	2506	4x4	12.9	13.3					

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 101 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

Output Powers – Ant 4B

Combination	PCC Band	PCC								SCC 1								SCC 2								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 [UL] Ch.	SCC [UL] Freq. [MHz]	Mod	SCC UL #	SCC UL# RB Offset	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.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA 41C[41A]	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	4x4	LTE B41	20	39948	2525.8	QPSK	1	0	39948	2525.8	4x4	LTE B41	20	41490	2680	4x4	15.67	15.70

Since LTE B41 PC3 and PC2 has same maximum output powers and DLCA combinations, the 4CC and above DL CA conducted powers with LTE B41 PC2 in table 102 (corresponding PC2 power tables for this antenna) also represent the test cases for LTE B41 PC3.

1.5.2.2 LTE Band 41 PC2

Output Powers – Ant 2A

[illegible]

Output Powers – Ant 2B

[illegible]

Output Powers – Ant 4A

[illegible]

Output Powers – Ant 4B

[illegible]

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1.5.2.3 LTE Band 7

Table 103
Output Powers – Ant 2A

	PCC										SCC 1										Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod	SCC UL # RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [7C]	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	4x4	LTE B7	20	21048	2529.8	QPSK	1	0	3048	2649.8	4x4	11.74	11.70

Table 104
Output Powers – Ant 2B

	PCC										SCC 1										Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL F. RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod.	SCC UL # RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [7C]	LTE B7	20	21350	2560	QPSK	1	0	3350	2680	4x4	LTE B7	20	21152	2540.2	QPSK	1	99	3152	2660.2	4x4	11.66	11.72

Table 105
Output Powers – Ant 4A

	PCC										SCC 1										Power	
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL F. RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod	SCC UL # RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [7C]	LTE B7	20	21350	2560	QPSK	50	0	3350	2680	4x4	LTE B7	20	21152	2540.2	QPSK	50	50	3152	2660.2	4x4	11.99	11.82

Table 106
Output Powers – Ant 4B

Combination	PCC										SCC 1										Power	
	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL RB	PCC UL RB Offset	PCC (DL) Ch.	PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (UL) Ch.	SCC (UL) Freq. [MHz]	Mod	SCC UL # RB	SCC UL RB Offset	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	ULCA Tx Power with add'l CA config. active on DL (dBm)	ULCA Tx Power (dBm)
CA [7C]	LTE B7	20	20850	2510	QPSK	1	99	2850	2630	4x4	LTE B7	20	21048	2529.8	QPSK	1	0	3048	2649.8	4x4	13.18	13.12

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APPENDIX G: POWER REDUCTION VERIFICATION

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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	Antenna	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)	1	30.00 (± 0.75)	28.05 (± 0.75)	30.75	26.25	26.25	PASS
	3	31.50 (± 0.75)	26.55 (± 0.75)	32.20	26.17	26.15	PASS
	2a	26.50 (± 0.75)	21.05 (± 0.75)	27.04	20.74	20.73	PASS
	2b	26.50 (± 0.75)	19.75 (± 0.75)	26.83	19.63	19.64	PASS
GPRS 1900 (2 Tx)	4a	28.50 (± 0.75)	20.15 (± 0.75)	28.95	20.75	20.75	PASS
	4b	29.00 (± 0.75)	20.25 (± 0.75)	29.69	19.96	19.95	PASS
	1	24.00 (± 0.5)	20.10 (± 0.5)	24.50	20.54	20.55	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.70	20.30	20.30	PASS
WCDMA B5	2a	22.50 (± 0.5)	13.75 (± 1)	22.63	14.27	14.35	PASS
	2b	22.75 (± 0.5)	13.90 (± 1)	23.25	14.43	14.43	PASS
	4a	24.50 (± 0.5)	13.50 (± 1)	24.70	14.50	14.50	PASS
	4b	25.20 (± 0.5)	13.50 (± 1)	25.40	13.89	13.87	PASS
WCDMA B4	2a	22.50 (± 0.5)	14.10 (± 1)	22.89	14.99	15.00	PASS
	2b	22.75 (± 0.5)	13.10 (± 1)	23.25	14.09	14.10	PASS
	4a	24.50 (± 0.5)	13.90 (± 1)	24.93	14.78	14.79	PASS
	4b	25.20 (± 0.5)	13.70 (± 1)	25.67	14.11	14.12	PASS
WCDMA B2	1	24.00 (± 0.5)	19.50 (± 0.5)	24.50	19.78	19.72	PASS
	3	25.20 (± 0.5)	21.50 (± 0.5)	25.63	21.22	21.23	PASS
	1	24.00 (± 0.5)	21.00 (± 0.5)	24.45	21.45	21.46	PASS
	3	25.20 (± 0.5)	19.50 (± 0.5)	25.69	20.00	19.99	PASS
LTE Band 17	1	24.00 (± 0.5)	21.00 (± 0.5)	24.41	21.45	21.46	PASS
	3	25.20 (± 0.5)	19.50 (± 0.5)	25.63	19.98	20.00	PASS
	1	24.00 (± 0.5)	21.00 (± 0.5)	24.50	21.35	21.37	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.70	20.30	20.30	PASS
LTE Band 13	1	24.00 (± 0.5)	21.00 (± 0.5)	24.44	21.29	21.30	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.36	19.74	19.75	PASS
	1	24.00 (± 0.5)	20.10 (± 0.5)	24.20	20.28	20.24	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.37	20.24	20.23	PASS
LTE Band 5	1	24.00 (± 0.5)	20.10 (± 0.5)	24.50	20.60	20.60	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.99	20.25	20.30	PASS
	1	24.00 (± 0.5)	19.50 (± 0.5)	24.50	19.78	19.72	PASS
	3	25.20 (± 0.5)	21.50 (± 0.5)	25.63	21.22	21.23	PASS
LTE Band 26	1	24.00 (± 0.5)	21.00 (± 0.5)	24.45	21.45	21.46	PASS
	3	25.20 (± 0.5)	19.50 (± 0.5)	25.69	20.00	19.99	PASS
	1	24.00 (± 0.5)	21.00 (± 0.5)	24.44	21.29	21.30	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.36	19.74	19.75	PASS
LTE Band 4	1	24.00 (± 0.5)	20.10 (± 0.5)	24.20	20.28	20.24	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.37	20.24	20.23	PASS
	1	24.00 (± 0.5)	20.10 (± 0.5)	24.50	20.60	20.60	PASS
	3	25.20 (± 0.5)	19.80 (± 0.5)	25.99	20.25	20.30	PASS
LTE Band 66	2a	22.50 (± 0.5)	13.75 (± 1)	22.98	14.53	14.53	PASS
	2b	23.00 (± 0.5)	13.90 (± 1)	23.20	14.50	14.47	PASS
	4a	24.50 (± 0.5)	13.50 (± 1)	25.00	13.54	13.53	PASS
	4b	25.20 (± 0.5)	13.50 (± 1)	25.54	14.16	14.15	PASS
LTE Band 2	2a	22.50 (± 0.5)	13.75 (± 1)	22.81	14.25	14.33	PASS
	2b	23.00 (± 0.5)	13.90 (± 1)	23.15	14.49	14.51	PASS
	4a	24.50 (± 0.5)	13.50 (± 1)	24.99	13.55	13.56	PASS
	4b	25.20 (± 0.5)	13.50 (± 1)	25.65	14.36	14.33	PASS
LTE Band 25	2a	22.50 (± 0.5)	14.10 (± 1)	22.65	14.59	14.60	PASS
	2b	23.00 (± 0.5)	13.10 (± 1)	23.50	14.10	14.09	PASS
	4a	24.50 (± 0.5)	13.90 (± 1)	24.67	14.59	14.58	PASS
	4b	25.20 (± 0.5)	13.70 (± 1)	25.70	14.18	14.23	PASS
LTE Band 30	2a	22.50 (± 0.5)	14.10 (± 1)	22.65	14.77	14.78	PASS
	2b	23.00 (± 0.5)	13.10 (± 1)	23.50	14.10	14.08	PASS
	4a	24.50 (± 0.5)	13.90 (± 1)	25.00	14.90	14.90	PASS
	4b	25.20 (± 0.5)	13.70 (± 1)	25.70	14.19	14.17	PASS
LTE Band 7	2a	22.50 (± 0.5)	12.00 (± 1)	21.60	12.28	12.30	PASS
	2b	22.75 (± 0.5)	12.40 (± 1)	22.39	12.71	12.73	PASS
	4a	24.50 (± 0.5)	12.20 (± 1)	23.50	13.00	13.00	PASS
	4b	23.50 (± 0.5)	12.70 (± 1)	23.93	13.59	13.56	PASS
LTE Band 41 (PC3)	2a	22.50 (± 0.5)	11.70 (± 1)	22.67	11.93	11.93	PASS
	2b	22.50 (± 0.5)	11.30 (± 1)	22.30	12.00	11.99	PASS
	4a	24.50 (± 0.5)	11.50 (± 1)	24.67	12.20	12.20	PASS
	4b	25.20 (± 0.5)	12.30 (± 1)	25.70	12.97	12.94	PASS
LTE Band 41 (PC2)	2a	22.00 (± 0.5)	13.70 (± 1)	21.50	14.14	14.15	PASS
	2b	22.50 (± 0.5)	13.20 (± 1)	23.00	14.18	14.20	PASS
	4a	25.00 (± 0.5)	13.20 (± 1)	25.12	13.83	13.85	PASS
	4b	25.20 (± 0.5)	15.40 (± 0.5)	25.63	15.90	15.90	PASS
LTE Band 48	2a	25.00 (± 0.5)	13.70 (± 1)	25.48	14.06	14.09	PASS
	2b	24.50 (± 0.5)	13.20 (± 1)	25.00	14.20	14.19	PASS
	4a	27.50 (± 0.5)	13.20 (± 1)	27.58	13.82	13.83	PASS
	4b	28.20 (± 0.5)	15.40 (± 0.5)	28.70	15.87	15.86	PASS
LTE B5 ULCA	1	21.50 (± 0.5)	14.30 (± 1)	22.00	15.30	15.30	PASS
	3	24.50 (± 0.5)	16.00 (± 0.5)	24.50	15.99	16.04	PASS
	2b	21.50 (± 0.5)	14.30 (± 1)	22.00	15.30	15.30	PASS
	4b	25.20 (± 0.5)	15.80 (± 0.5)	25.15	16.30	16.30	PASS
LTE B7 ULCA	1	22.50 (± 1)	19.60 (± 1)	22.80	19.70	19.75	PASS
	3	24.00 (± 1)	19.30 (± 1)	24.45	19.66	19.65	PASS
	2a	21.00 (± 1)	11.70 (± 1)	21.32	11.59	11.61	PASS
	2b	20.50 (± 1)	11.30 (± 1)	20.94	11.70	11.71	PASS
LTE B41 (PC3) ULCA	4a	23.50 (± 1)	11.50 (± 1)	23.63	11.61	11.63	PASS
	4b	24.00 (± 1)	12.30 (± 1)	24.47	12.70	12.67	PASS
	2a	20.00 (± 1)	13.70 (± 1)	20.21	13.35	13.36	PASS
	2b	20.50 (± 1)	13.20 (± 1)	20.89	13.53	13.54	PASS
LTE B41 (PC2) ULCA	4a	23.50 (± 1)	13.20 (± 1)	23.06	12.72	12.71	PASS
	4b	24.00 (± 1)	14.90 (± 1)	24.25	15.07	15.06	PASS
	2a	21.50 (± 1)	13.70 (± 1)	21.73	13.38	13.37	PASS
	2b	22.50 (± 1)	13.20 (± 1)	22.91	13.54	13.53	PASS
LTE B41 (PC2) ULCA	4a	25.50 (± 1)	13.20 (± 1)	25.03	12.65	12.64	PASS
	4b	26.00 (± 1)	14.90 (± 1)	26.22	15.08	15.07	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: IEEE 802.11AX RU SAR EXCLUSION

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1.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T, 996T.

Per FCC Guidance, 802.11ax was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

1.2 IEEE 802.11ax RU Target Powers

1.2.1 Maximum 802.11ax RU WLAN Output Power

A. Antenna 2A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		2	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		3	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		4	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		5	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		6	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		7	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		8	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		9	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		11	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		12	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		2	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		3	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		4	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		5	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		6	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		7	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		8	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		9	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		11	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		12	8.00	6.50	8.00	6.50	8.00	6.50	8.00	6.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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B. Antenna 4A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		2	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		3	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		4	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		5	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		6	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		7	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		8	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		9	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		11	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		12	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		2	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		3	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		4	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		5	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		6	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		7	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		8	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		9	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		11	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		12	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019 – 01/21/2020	DUT Type: Tablet Device		APPENDIX H: Page 3 of 17

C. 5GHz ANTlower

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal		
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTlower	20 MHz Bandwidth	36	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00					
		40	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50	16.00					
		44	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50	16.00					
		48	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50	16.00					
		52	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		56	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		60	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		64	11.00	9.50	14.00	12.50	14.50	13.00	14.50	13.00	14.50					
		100	11.00	9.50	14.00	12.50	14.00	12.50	14.00	12.50	14.00					
		104	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		108	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		112	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		116	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		120	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		124	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		128	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		132	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		136	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		140	11.00	9.50	13.50	12.00	13.50	12.00	13.50	12.00	13.50					
		144	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50					
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
	40 MHz Bandwidth	38	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	12.00	10.50			
		46	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50	16.00	14.50	16.00			
		54	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50			
		62	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		102	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		110	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00		
		118	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00		
		126	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00		
		134	11.00	9.50	14.00	12.50	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00		
		142	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00		
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00		
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00		
	80 MHz Bandwidth	42	11.00	9.50	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		58	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		106	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		122	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00
		138	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00
		155	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T		
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal		
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTlower	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00	13.50					
		40	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00					
		44	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00					
		48	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00					
		52	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50					
		56	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50					
		60	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50					
		64	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00	13.50					
		100	7.75	6.25	10.75	9.25	13.50	12.00	13.50	12.00	13.50					
		104	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		108	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		112	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		116	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		120	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		124	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		128	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		132	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		136	7.75	6.25	10.75	9.25	13.50	12.00	13.50	12.00	13.50					
		140	7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00					
		144	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50					
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50					
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	11.00	9.50			
		46	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50	16.00			
		54	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50			
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00	10.50			
		102	7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00			
		110	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50	15.00	16.50			
		118	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50	15.00	16.50			
		126	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50	15.00	16.50			
		134	7.75	6.25	10.75	9.25	13.00	11.50	13.00	11.50	13.00	11.50	13.00			
		142	7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50	15.00	16.50			
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50			
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50			
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		106	7.75	6.25	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
122		7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00	
138		7.75	6.25	10.75	9.25	13.75	12.25	16.50	15.00	16.50	15.00	16.50	15.00	16.50	15.00	
155		14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	
171		14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	
187		14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTlower	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		40	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		44	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		48	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		52	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		56	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		60	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		64	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		100	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		104	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		108	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		112	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		116	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		120	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		124	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		128	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		132	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		136	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		140	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50					
		144	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00					
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50			
		46	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50			
		54	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00			
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00			
		102	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50			
		110	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00			
		118	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00			
		126	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00			
		134	8.00	6.50	11.00	9.50	13.00	11.50	13.00	11.50	13.00	11.50			
		142	8.00	6.50	11.00	9.50	14.00	12.50	10.00	8.50	16.50	15.00			
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00			
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00			
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		106	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		122	8.00	6.50	11.00	9.50	14.00	12.50	16.50	15.00	16.50	15.00	16.50	15.00	
		138	8.00	6.50	11.00	9.50	14.00	12.50	10.00	8.50	13.00	11.50	16.50	15.00	
		155	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	

D. 5GHz ANTupper

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper	20 MHz Bandwidth	36	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		40	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50					
		44	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50					
		48	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50					
		52	11.00	9.50	14.00	12.50	16.25	14.75	16.25	14.75					
		56	11.00	9.50	14.00	12.50	16.25	14.75	16.25	14.75					
		60	11.00	9.50	14.00	12.50	16.25	14.75	16.25	14.75					
		64	11.00	9.50	14.00	12.50	14.50	13.00	14.50	13.00					
		100	11.00	9.50	14.00	12.50	14.00	12.50	14.00	12.50					
		104	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		108	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		112	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		116	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		120	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		124	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		128	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		132	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		136	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		140	11.00	9.50	13.50	12.00	13.50	12.00	13.50	12.00					
		144	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50					
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
	40 MHz Bandwidth	38	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50	
		46	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50	16.00	14.50	16.00	14.50	
		54	11.00	9.50	14.00	12.50	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	
		62	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	
		102	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	
		110	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00	13.50	15.00	13.50	
		118	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00	13.50	15.00	13.50	
		126	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00	13.50	15.00	13.50	
		134	11.00	9.50	14.00	12.50	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	
		142	11.00	9.50	14.00	12.50	15.00	13.50	13.50	12.00	15.00	13.50	15.00	13.50	
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	
	80 MHz Bandwidth	42	11.00	9.50	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	
		58	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	
		106	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	
		122	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00	13.50	15.00	13.50	
		138	11.00	9.50	14.00	12.50	15.00	13.50	13.50	12.00	14.50	13.00	15.00	13.50	
		155	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	

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Mode/ Band		Tones		26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTupper	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		40	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		44	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		48	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		52	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75					
		56	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75					
		60	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75					
		64	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		100	7.75	6.25	10.75	9.25	13.50	12.00	13.50	12.00					
		104	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		108	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		112	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		116	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		120	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		124	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		128	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		132	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		136	7.75	6.25	10.75	9.25	13.50	12.00	13.50	12.00					
		140	7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50					
		144	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50					
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50			
		46	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50			
		54	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75	16.25	14.75			
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00			
		102	7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50			
		110	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50	15.00	13.50			
		118	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50	15.00	13.50			
		126	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50	15.00	13.50			
		134	7.75	6.25	10.75	9.25	13.00	11.50	13.00	11.50	13.00	11.50			
		142	7.75	6.25	10.75	9.25	13.75	12.25	10.00	8.50	15.00	13.50			
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00			
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00			
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		106	7.75	6.25	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		122	7.75	6.25	10.75	9.25	13.75	12.25	15.00	13.50	15.00	13.50	15.00	13.50	
		138	7.75	6.25	10.75	9.25	13.75	12.25	10.00	8.50	13.00	11.50	15.00	13.50	
		155	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTupper	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		40	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		44	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		48	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50					
		52	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75					
		56	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75					
		60	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75					
		64	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		100	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		104	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		108	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		112	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		116	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		120	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		124	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		128	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		132	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		136	8.00	6.50	11.00	9.50	13.50	12.00	13.50	12.00					
		140	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50					
		144	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50					
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00					
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50			
		46	8.00	6.50	11.00	9.50	14.00	12.50	16.00	14.50	16.00	14.50			
		54	8.00	6.50	11.00	9.50	14.00	12.50	16.25	14.75	16.25	14.75			
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00			
		102	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50			
		110	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50			
		118	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50			
		126	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50			
		134	8.00	6.50	11.00	9.50	13.00	11.50	13.00	11.50	13.00	11.50			
		142	8.00	6.50	11.00	9.50	14.00	12.50	10.00	8.50	15.00	13.50			
		151	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00			
		159	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00			
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		106	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	
		122	8.00	6.50	11.00	9.50	14.00	12.50	15.00	13.50	15.00	13.50	15.00	13.50	
		138	8.00	6.50	11.00	9.50	14.00	12.50	10.00	8.50	13.00	11.50	15.00	13.50	
		155	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	14.50	13.00	

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1.2.2 Reduced 802.11ax RU WLAN Output Power

E. Ant 2a

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

F. Ant 4a

Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Mode/ Band		Tones	26T		52T		106T		242T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

G. 5GHz ANTLower

Mode/ Band		Tones	26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTLower	20 MHz Bandwidth	36	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50				
		40	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50				
		44	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50				
		48	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50				
		52	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		56	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		60	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		64	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		100	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		104	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		108	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		112	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		116	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		120	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		124	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		128	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		132	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		136	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		140	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		144	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00				
		149	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		153	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		157	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		161	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		165	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
	40 MHz Bandwidth	38	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50		
		46	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50		
		54	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		62	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		102	11.00	9.50	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		110	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		118	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		126	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		134	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		142	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00		
		151	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		159	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
	80 MHz Bandwidth	42	11.00	9.50	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		58	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		106	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		122	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00
		138	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00
		155	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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Mode/ Band		Tones	26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTower	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		40	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		44	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		48	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		52	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		56	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		60	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		64	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		100	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		104	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		108	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		112	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		116	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		120	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		124	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		128	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		132	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		136	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		140	7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		144	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00				
		149	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		153	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		157	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		161	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		165	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		46	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50		
		54	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00		
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00		
		102	7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		110	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00	12.50	11.00		
		118	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00	12.50	11.00		
		126	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00	12.50	11.00		
		134	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00	12.50	11.00		
		142	7.75	6.25	10.75	9.25	12.50	11.00	10.00	8.50	12.50	11.00		
		151	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		159	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		106	7.75	6.25	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		122	7.75	6.25	10.75	9.25	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00
		138	7.75	6.25	10.75	9.25	12.50	11.00	10.00	8.50	12.50	11.00	12.50	11.00
		155	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00

Mode/ Band		Tones	26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTower	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		40	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		44	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		48	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50				
		52	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		56	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		60	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		64	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		100	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		104	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		108	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		112	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		116	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		120	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		124	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		128	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		132	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		136	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		140	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		144	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00				
		149	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		153	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		157	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		161	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
		165	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00				
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		46	8.00	6.50	11.00	9.50	12.00	10.50	12.00	10.50	12.00	10.50		
		54	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00		
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00		
		102	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		110	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00		
		118	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00		
		126	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00		
		134	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00		
		142	8.00	6.50	11.00	9.50	12.50	11.00	10.00	8.50	12.50	11.00		
		151	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
		159	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00		
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		106	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		122	8.00	6.50	11.00	9.50	12.50	11.00	12.50	11.00	12.50	11.00	12.50	11.00
		138	8.00	6.50	11.00	9.50	12.50	11.00	10.00	8.50	12.50	11.00	12.50	11.00
		155	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Reviewed by: Quality Manager
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H. 5GHz ANTupper

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T	
		Channel		Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper	20 MHz Bandwidth	36		11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50				
		40		11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50				
		44		11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50				
		48		11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50				
		52		11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75				
		56		11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75				
		60		11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75				
		64		11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75				
		100		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		104		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		108		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		112		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		116		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		120		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		124		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		128		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		132		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		136		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		140		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		144		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50				
		149		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		153		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		157		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		161		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		165		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
	40 MHz Bandwidth	38		11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		46		11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		54		11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75		
		62		11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75		
		102		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		110		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		118		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		126		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		134		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		142		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		151		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00		
		159		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00		
	80 MHz Bandwidth	42		11.00	9.50	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		58		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		106		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		122		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		138		10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		155		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00

Mode/ Band		Tones		26T		52T		106T		242T		484T		996T	
		Channel		Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTupper	20 MHz Bandwidth	36		8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		40		8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		44		8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		48		8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		52		8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		56		8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		60		8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		64		8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		100		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		104		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		108		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		112		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		116		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		120		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		124		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		128		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		132		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		136		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		140		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
		144		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50				
	40 MHz Bandwidth	149		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		153		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		157		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		161		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		165		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		38		8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		46		8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		54		8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75		
		62		8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00		
		102		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		110		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		118		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		126		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		134		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		142		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		151		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00		
		159		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00		
	80 MHz Bandwidth	42		8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		58		8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		106		7.75	6.25	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		122		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		138		7.75	6.25	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		155		10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00

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Mode/ Band		Tones	26T		52T		106T		242T		484T		996T	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTupper	20 MHz Bandwidth	36	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		40	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		44	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		48	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50				
		52	8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		56	8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		60	8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		64	8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75				
		100	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		104	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		108	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		112	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		116	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		120	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		124	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		128	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		132	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		136	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		140	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		144	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50				
		149	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		153	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		157	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		161	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
		165	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00				
	40 MHz Bandwidth	38	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		46	8.00	6.50	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50		
		54	8.00	6.50	11.00	9.50	11.25	9.75	11.25	9.75	11.25	9.75		
		62	8.00	6.50	10.50	9.00	10.50	9.00	10.00	8.50	10.50	9.00		
		102	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		110	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		118	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		126	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		134	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		142	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50		
		151	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00		
		159	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00		
	80 MHz Bandwidth	42	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		58	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		106	8.00	6.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50	9.00	7.50
		122	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		138	8.00	6.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
		155	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00

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1.3 IEEE 802.11ax Measured Powers

Table 1
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 2a

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	12.21	2412	1	52T	37	11.97
			4	12.61				38	12.51
			8	12.99				40	12.69
2417	2	26T	0	12.17	2417	2	52T	37	12.39
			4	12.76				38	12.44
			8	12.96				40	12.58
2437	6	26T	0	12.74	2437	6	52T	37	12.84
			4	12.88				38	12.68
			8	12.54				40	12.13
2462	11	26T	0	12.85	2462	11	52T	37	12.51
			4	12.83				38	12.29
			8	12.96				40	12.33
2467	12	26T	0	10.36	2467	12	52T	37	10.57
			4	10.94				38	10.83
			8	9.63				40	9.14

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	12.14	2412	1	242T	61	13.00
			54	12.61					
2417	2	106T	53	12.22	2417	2	242T	61	13.00
			54	12.42					
2437	6	106T	53	12.71	2437	6	242T	61	12.97
			54	12.21					
2462	11	106T	53	12.48	2462	11	242T	61	12.83
			54	12.32					
2467	12	106T	53	10.71	2467	12	242T	61	10.90
			54	9.60					

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Table 2
Maximum 2.4 GHz 802.11ax RU Output Power – Ant 4a

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)	Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	26T	0	12.12	2412	1	52T	37	11.75
			4	12.43				38	11.81
			8	13.00				40	12.02
2417	2	26T	0	11.83	2417	2	52T	37	11.92
			4	12.39				38	11.77
			8	12.84				40	12.01
2437	6	26T	0	12.60	2437	6	52T	37	12.02
			4	12.77				38	11.78
			8	12.92				40	11.83
2462	11	26T	0	13.00	2462	11	52T	37	11.54
			4	12.60				38	11.63
			8	12.30				40	11.82
2467	12	26T	0	10.77	2467	12	52T	37	10.43
			4	11.00				38	10.92
			8	9.58				40	9.10

Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)		Freq [MHz]	Channel	Tones	RU Index	Avg Conducted Powers (dBm)
2412	1	106T	53	12.67						
			54	12.84						
2417	2	106T	53	12.58						
			54	12.75						
2437	6	106T	53	12.59						
			54	12.43						
2462	11	106T	53	11.95						
			54	12.36						
2467	12	106T	53	10.82						
			54	9.95						
2412	1	242T	61	12.77						
2417	2	242T	61	13.00						
2437	6	242T	61	12.90						
2462	11	242T	61	12.92						
2467	12	242T	61	10.90						

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Table 3
Maximum 5 GHz 802.11ax RU Output Power – 5GHz ANTlower

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	4	8						37	39	40
	1	5180	36	26T	10.63	11.00	10.94		1	5180	36	52T	13.51	13.96	13.97
		5200	40	26T	10.68	10.92	10.99			5200	40	52T	13.41	13.66	13.62
		5240	48	26T	10.78	11.00	10.95			5240	48	52T	13.53	13.72	13.52
	2A	5260	52	26T	10.69	11.00	11.00		2A	5260	52	52T	13.49	13.65	13.57
		5300	60	26T	10.53	11.00	10.97			5300	60	52T	13.39	13.74	13.64
		5320	64	26T	10.50	10.98	11.00			5320	64	52T	13.37	13.69	13.58
	2C	5500	100	26T	10.70	11.00	11.00		2C	5500	100	52T	13.50	13.64	13.67
5520		104	26T	10.68	11.00	10.98	5520	104		52T	13.39	13.70	13.55		
5580		116	26T	10.71	10.92	10.80	5580	116		52T	13.45	13.58	13.38		
5660		132	26T	11.00	11.00	11.00	5660	132		52T	13.52	13.66	13.56		
5680		136	26T	10.87	11.00	10.96	5680	136		52T	13.32	13.66	13.41		
5700		140	26T	10.80	11.00	10.99	5700	140		52T	12.65	12.81	12.76		
5720		144	26T	10.81	11.00	11.00	5720	144		52T	13.12	13.34	13.31		
3	5745	149	26T	15.23	15.50	15.50	3	5745	149	52T	14.71	14.90	14.83		
	5785	157	26T	15.28	15.50	15.50		5785	157	52T	14.79	15.05	15.01		
	5825	165	26T	15.13	15.50	15.46		5825	165	52T	14.61	14.90	14.82		

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	54	N/A						61	N/A	N/A
	1	5180	36	106T	14.99	15.00			1	5180	36	242T	15.00		
		5200	40	106T	15.75	15.95				5200	40	242T	16.00		
		5240	48	106T	15.77	15.97				5240	48	242T	15.91		
	2A	5260	52	106T	16.16	16.41			2A	5260	52	242T	16.37		
		5300	60	106T	16.21	16.46				5300	60	242T	16.50		
		5320	64	106T	14.18	14.33				5320	64	242T	14.50		
	2C	5500	100	106T	13.58	13.88			2C	5500	100	242T	13.87		
5520		104	106T	16.19	16.34		5520	104		242T	16.41				
5580		116	106T	16.31	16.41		5580	116		242T	16.50				
5660		132	106T	16.40	16.46		5660	132		242T	16.49				
5680		136	106T	16.32	16.50		5680	136		242T	16.42				
5700		140	106T	13.25	13.46		5700	140		242T	13.50				
5720		144	106T	16.30	16.48		5720	144		242T	16.42				
3	5745	149	106T	15.23	15.44		3	5745	149	242T	15.44				
	5785	157	106T	15.50	15.50			5785	157	242T	15.36				
	5825	165	106T	15.34	15.50			5825	165	242T	15.49				

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	8	17						37	40	44
	1	5190	38	26T	10.19	10.95	10.45		1	5190	38	52T	11.66	12.00	11.60
		5230	46	26T	10.72	10.92	10.85			5230	46	52T	13.81	13.94	13.82
	2A	5270	54	26T	10.64	10.93	11.00		2A	5270	54	52T	13.84	14.00	13.87
		5310	62	26T	10.48	11.00	11.00			5310	62	52T	11.45	11.50	11.50
	2C	5510	102	26T	10.67	11.00	10.75		2C	5510	102	52T	11.50	11.49	11.48
		5550	110	26T	10.74	10.93	10.82			5550	110	52T	13.99	13.90	13.74
		5590	118	26T	10.84	10.88	10.87			5590	118	52T	14.00	13.97	13.92
5670		134	26T	10.75	10.85	10.97	5670	134		52T	14.00	13.96	14.00		
3	5710	142	26T	10.67	10.79	10.98	3	5710	142	52T	13.94	13.88	13.87		
	5755	151	26T	15.09	15.49	15.50		5755	151	52T	15.49	15.50	15.50		
	5795	159	26T	14.92	15.43	15.41		5795	159	52T	15.42	15.33	15.29		

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40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	54	56						61	62	N/A
	1	5190	38	106T	11.52	12.00	11.72		1	5190	38	242T	12.00	12.00	
		5230	46	106T	15.84	15.94	16.00			5230	46	242T	16.00	16.00	
	2A	5270	54	106T	16.36	16.45	16.50		2A	5270	54	242T	16.14	16.36	
		5310	62	106T	11.15	11.40	11.46			5310	62	242T	11.50	11.50	
	2C	5510	102	106T	11.45	11.48	11.50		2C	5510	102	242T	11.42	11.38	
		5550	110	106T	16.46	16.50	16.49			5550	110	242T	16.48	16.46	
		5590	118	106T	16.50	16.48	16.46			5590	118	242T	16.50	16.47	
		5670	134	106T	14.50	14.48	14.45			5670	134	242T	14.38	14.37	
	3	5710	142	106T	16.40	16.41	16.45		3	5710	142	242T	13.50	13.48	
		5755	151	106T	15.35	15.44	15.50			5755	151	242T	15.50	15.50	
		5795	159	106T	15.21	15.37	15.50			5795	159	242T	15.50	15.50	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	N/A	N/A
	1	5190	38	484T	11.49		
		5230	46	484T	16.00		
	2A	5270	54	484T	16.50		
		5310	62	484T	11.50		
	2C	5510	102	484T	11.50		
		5550	110	484T	16.50		
		5590	118	484T	16.50		
		5670	134	484T	14.45		
	3	5710	142	484T	16.33		
		5755	151	484T	15.50		
		5795	159	484T	15.50		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	18	36						37	44	52
	1	5210	42	26T	10.80	11.00	10.80		1	5210	42	52T	10.05	10.44	10.23
2C	2A	5290	58	26T	10.25	10.50	10.25	2A	5290	58	52T	10.46	10.50	10.48	
	5530	106	26T	9.88	10.50	10.00	5530	106	52T	10.20	10.40	10.32			
	5610	122	26T	10.56	11.00	10.70	5610	122	52T	13.82	13.94	13.86			
	5690	138	26T	10.52	11.00	10.67	5690	138	52T	13.95	14.00	13.83			
3	5775	155	26T	14.97	15.50	15.25	3	5775	155	52T	15.40	15.49	15.50		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					53	56	60
	1	5210	42	106T	10.26	10.46	10.30
	2A	5290	58	106T	10.39	10.50	10.34
		5530	106	106T	10.50	10.50	10.48
	2C	5610	122	106T	16.36	16.41	16.25
		5690	138	106T	16.50	16.48	16.50
	3	5775	155	106T	15.19	15.26	15.22

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					61	62	64
	1	5210	42	242T	10.26	10.50	10.05
	2A	5290	58	242T	10.50	10.50	10.36
		5530	106	242T	10.21	10.47	10.33
	2C	5610	122	242T	16.42	16.41	16.22
		5690	138	242T	13.26	13.50	13.18
	3	5775	155	242T	15.50	15.50	15.27

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					65	66	N/A						67	N/A	N/A
	1	5210	42	484T	10.50	10.45			1	5210	42	996T	10.25		
	2A	5290	58	484T	10.48	10.50			2A	5290	58	996T	10.17		
		5530	106	484T	10.41	10.42				5530	106	996T	10.25		
	2C	5610	122	484T	16.50	16.48			2C	5610	122	996T	16.42		
		5690	138	484T	14.48	14.50				5690	138	996T	16.50		
	3	5775	155	484T	15.50	15.50			3	5775	155	996T	15.50		

FCC ID: BCGA2068	 PCTEST	SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019 – 01/21/2020	DUT Type: Tablet Device		APPENDIX H: Page 15 of 17

Table 4
Maximum 5 GHz 802.11ax RU Output Power – 5GHz ANTupper

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	4	8						37	39	40
	1	5180	36	26T	10.37	10.93	11.00		1	5180	36	52T	13.32	13.94	13.98
	5200	40	26T	10.18	10.81	11.00		5200	40	52T	13.28	13.75	13.86		
	5240	48	26T	10.47	11.00	11.00		5240	48	52T	13.44	13.82	13.90		
2A	5260	52	26T	10.38	10.85	10.96		5260	52	52T	13.28	13.65	13.53		
	5300	60	26T	10.39	10.87	11.00		5300	60	52T	13.02	13.50	13.39		
	5320	64	26T	10.51	10.87	10.91		5320	64	52T	13.06	13.46	13.32		
2C	5500	100	26T	10.82	11.00	11.00		5500	100	52T	13.59	13.81	13.61		
	5520	104	26T	10.74	11.00	11.00		5520	104	52T	13.63	13.81	13.69		
	5580	116	26T	10.57	10.89	10.87		5580	116	52T	13.65	13.78	13.65		
	5660	132	26T	10.95	11.00	10.99		5660	132	52T	13.56	13.78	13.55		
	5680	136	26T	10.63	10.98	11.00		5680	136	52T	13.78	13.98	13.85		
	5700	140	26T	10.63	11.00	10.87		5700	140	52T	13.04	13.32	13.17		
	5720	144	26T	10.64	10.99	10.79		5720	144	52T	13.55	13.74	13.59		
3	5745	149	26T	15.14	15.49	15.46		5745	149	52T	14.41	14.68	14.63		
	5785	157	26T	15.10	15.50	15.43		5785	157	52T	15.00	15.28	15.16		
	5825	165	26T	15.25	15.50	15.49		5825	165	52T	14.67	15.03	14.88		

20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			20MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	54	N/A						61	N/A	N/A
1	5180	36	106T	14.57	15.00		1	5180	36	242T	15.00				
	5200	40	106T	15.59	15.95			5200	40	242T	16.00				
	5240	48	106T	15.78	16.00			5240	48	242T	15.97				
2A	5260	52	106T	16.10	16.25		2A	5260	52	242T	16.25				
	5300	60	106T	16.09	16.25			5300	60	242T	16.25				
	5320	64	106T	14.31	14.50			5320	64	242T	14.49				
2C	5500	100	106T	13.90	14.00		2C	5500	100	242T	14.00				
	5520	104	106T	14.71	14.87			5520	104	242T	14.92				
	5580	116	106T	14.83	15.00			5580	116	242T	15.00				
	5660	132	106T	14.75	14.90			5660	132	242T	14.97				
	5680	136	106T	14.91	14.95			5680	136	242T	14.91				
	5700	140	106T	13.19	13.41			5700	140	242T	13.44				
	5720	144	106T	14.74	14.92			5720	144	242T	15.00				
3	5745	149	106T	15.26	15.48		3	5745	149	242T	15.50				
	5785	157	106T	15.39	15.00			5785	157	242T	15.43				
	5825	165	106T	15.19	15.41			5825	165	242T	15.45				

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	8	17						37	40	44
	1	5190	38	26T	10.00	11.00	10.62		1	5190	38	52T	10.77	11.88	11.29
		5230	46	26T	10.56	11.00	11.00			5230	46	52T	13.26	13.61	13.98
	2A	5270	54	26T	10.64	11.00	11.00		2A	5270	54	52T	13.55	13.72	13.91
		5310	62	26T	10.58	11.00	11.00			5310	62	52T	11.07	11.36	11.46
	2C	5510	102	26T	10.65	11.00	11.00		2C	5510	102	52T	11.25	11.41	11.41
		5550	110	26T	11.00	10.93	11.00			5550	110	52T	13.67	13.65	13.67
		5590	118	26T	10.47	10.72	10.59			5590	118	52T	13.74	13.67	13.70
5670		134	26T	11.00	11.00	11.00	5670	134		52T	13.50	13.61	13.74		
5710		142	26T	10.93	10.97	11.00	5710	142		52T	13.73	13.52	13.93		
3	5755	151	26T	15.27	15.50	15.50	3	5755	151	52T	15.21	15.24	15.45		
	5795	159	26T	15.33	15.50	15.50		5795	159	52T	14.93	15.08	15.38		

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	54	56						61	62	N/A
	1	5190	38	106T	10.97	11.96	11.31		1	5190	38	242T	11.95	11.83	
		5230	46	106T	14.96	15.31	15.11			5230	46	242T	15.03	15.20	
	2A	5270	54	106T	15.91	16.14	15.92		2A	5270	54	242T	15.65	15.70	
		5310	62	106T	11.17	11.25	11.22			5310	62	242T	11.16	11.31	
	2C	5510	102	106T	11.26	11.34	11.17		2C	5510	102	242T	11.50	11.50	
		5550	110	106T	14.16	14.29	14.18			5550	110	242T	14.40	14.55	
		5590	118	106T	14.37	14.20	14.22			5590	118	242T	14.65	14.56	
		5670	134	106T	14.01	13.92	13.76			5670	134	242T	14.28	14.32	
		5710	142	106T	14.51	14.57	14.44			5710	142	242T	13.50	13.36	
	3	5755	151	106T	15.05	15.17	15.05		3	5755	151	242T	15.43	15.50	
		5795	159	106T	15.18	15.36	15.22			5795	159	242T	15.50	15.39	

FCC ID: BCGA2068	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019 – 01/21/2020	DUT Type: Tablet Device	APPENDIX H: Page 16 of 17

40MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index		
					65	N/A	N/A
1	2A	5190	38	484T	11.50		
		5230	46	484T	16.00		
		5270	54	484T	16.25		
2C	2C	5310	62	484T	11.50		
		5510	102	484T	11.50		
		5550	110	484T	15.00		
		5590	118	484T	15.00		
		5670	134	484T	14.50		
		5710	142	484T	15.00		
3	3	5755	151	484T	15.50		
		5795	159	484T	15.50		

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					0	18	36						37	44	52
1	2A	5210	42	26T	10.56	10.92	10.76	2A	5290	58	52T	9.83	10.28	10.13	
		5530	106	26T	9.94	10.45	10.10			5530	106	52T	10.21	10.37	10.35
		5610	122	26T	10.84	10.99	10.83			5610	122	52T	13.72	13.81	13.47
2C		5690	138	26T	10.66	10.89	10.69	2C		5690	138	52T	13.55	13.92	13.74
		5775	155	26T	15.35	15.50	15.27			5775	155	52T	15.24	15.48	15.44

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					53	56	60						61	62	64
	1	5210	42	106T	9.83	10.20	10.06		1	5210	42	242T	9.86	10.27	9.84
2A	5290	58	106T	9.95	10.36	10.21	2A	5290	58	242T	10.16	10.44	10.19		
	5530	106	106T	10.29	10.42	10.37	5530	106	242T	9.81	10.21	9.96			
	5610	122	106T	14.03	14.16	13.86	2C	5610	122	242T	13.95	14.40	13.83		
5690	138	106T	14.16	14.33	14.23	5690		138	242T	13.19	13.13	13.00			
5775	155	106T	15.28	15.42	15.39	5775		155	242T	15.25	14.08	15.27			

80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)			80MHz BW	Band	Freq [MHz]	Channel	Tones	Avg Conducted Power (dBm)		
					RU Index								RU Index		
					65	66	N/A						67	N/A	N/A
1	2A	5210	42	484T	10.33	10.44		2A	2A	5210	42	996T	10.50		
		5290	58	484T	10.46	10.29				5290	58	996T	10.50		
		5530	106	484T	10.36	10.44				5530	106	996T	10.38		
2C	2C	5610	122	484T	13.85	13.86		2C	2C	5610	122	996T	15.00		
		5690	138	484T	14.35	14.42				5690	138	996T	15.00		
		5775	155	484T	15.39	15.49				5775	155	996T	15.43		

FCC ID: BCGA2068	 SAR EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates: 12/16/2019 – 01/21/2020	DUT Type: Tablet Device	APPENDIX H: Page 17 of 17

APPENDIX I: PROBE CALIBRATION

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client: **PG-Test**

Certificate No.: **D750V3-1097_Sep17**

CALIBRATION CERTIFICATE

Object: **D750V3 - SN:1097**

Calibration procedure(s): **QA-CAL-05.v9**
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: **September 08, 2017**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5058 (20k)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 7349	31-May-17 (No. EX3-7349_May17)	May-18
DAE4	SN: 601	28-Mar-17 (No. DAE4-601_Mar17)	Mar-18
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292763	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

Calibrated by: **Claudio Leubler** Function: **Laboratory Technician**

Approved by: **Katja Pokóvic** Technical Manager

Signature:

Issued: September 8, 2017

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz $\pm$ 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 $\pm$ 0.2) °C	41.2 $\pm$ 6 %	0.90 mho/m $\pm$ 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.08 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.22 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.39 W/kg $\pm$ 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 $\pm$ 0.2) °C	55.5 $\pm$ 6 %	0.96 mho/m $\pm$ 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.56 W/kg $\pm$ 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.42 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.68 W/kg $\pm$ 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	54.4 Ω - 0.6 j Ω
Return Loss	- 27.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.0 Ω - 3.6 j Ω
Return Loss	- 28.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.034 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	July 05, 2013

DASY5 Validation Report for Head TSL

Date: 08.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1097

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 41.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.49, 10.49, 10.49); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

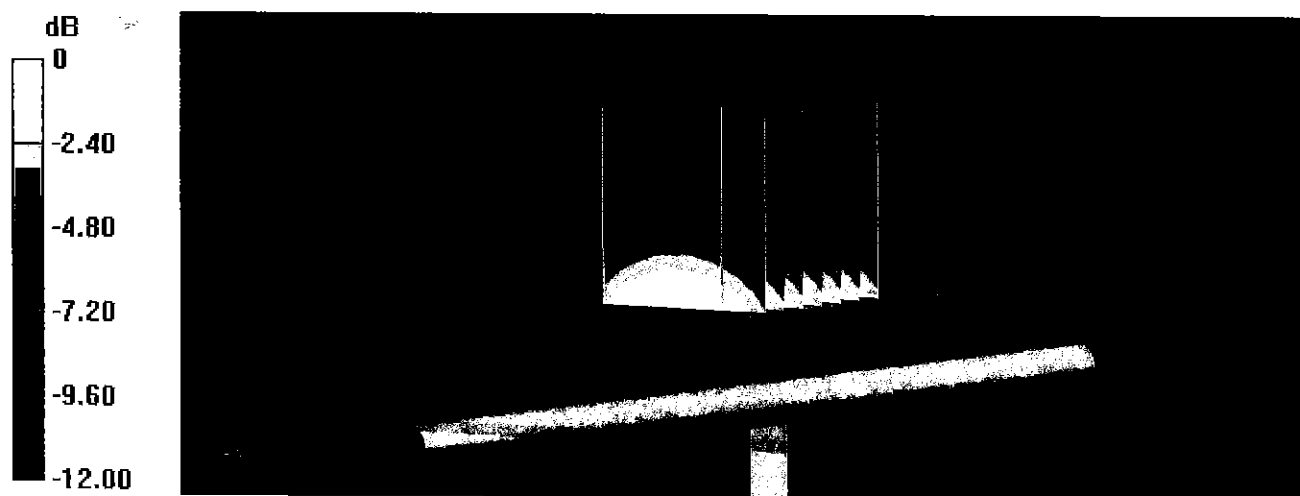
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.59 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.19 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.36 W/kg

Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

Impedance Measurement Plot for Head TSL

8 Sep 2017 13:09:24
 CH1 S11 1 U FS 1: 54.383 Ω -552.73 m Ω 383.92 pF 750.000 000 MHz

*

De1

CA

Avg
16

H1d

CH2 S11 LOG 5 dB/REF -20 dB 1:-27.463 dB 750.000 000 MHz

CA

Avg
16

H1d

START 550.000 000 MHz

STOP 950.000 000 MHz

DASY5 Validation Report for Body TSL

Date: 08.09.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1097

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.96 \text{ S/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.35, 10.35, 10.35); Calibrated: 31.05.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 28.03.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

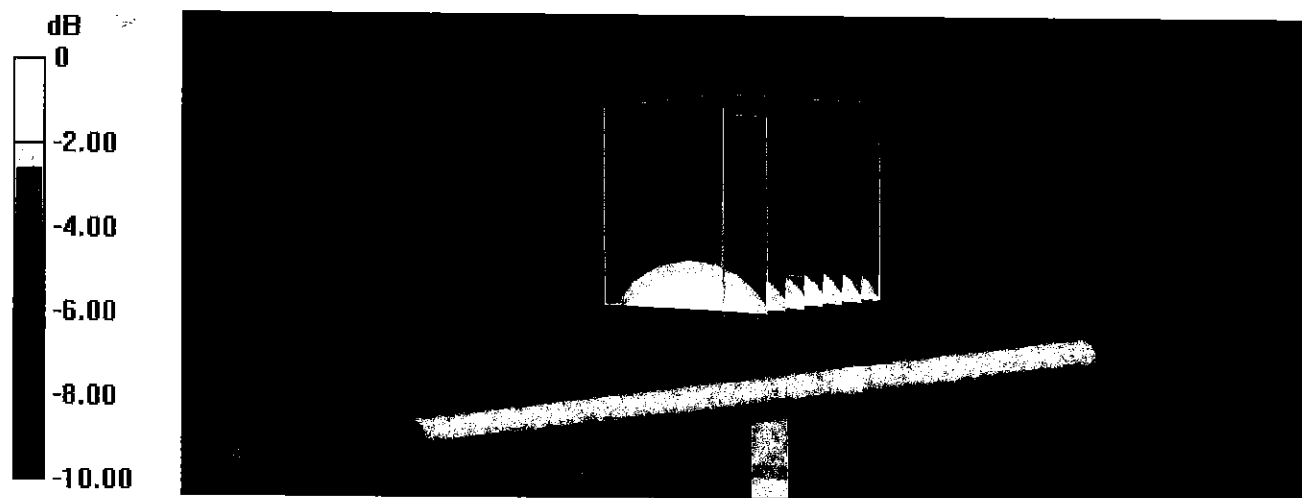
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.96 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.42 W/kg

Maximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

Impedance Measurement Plot for Body TSL

8 Sep 2017 13:08:43
[CH1] S11 1 U FS 1: 49.951 Ω -3.6172 Ω 58.666 pF 750.000 000 MHz

*

De1

CA

Avg
15

H1d

CH2 S11 LOG 5 dB/REF -20 dB 1: -28.833 dB 750.000 000 MHz

CA

Avg
16

H1d

START 550.000 000 MHz

STOP 950.000 000 MHz

Certification of Calibration

Object D750V3 – SN: 1097

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

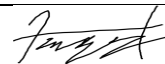
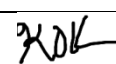
Extended Calibration date: September 08, 2018

Description: SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Agilent	N5182A	MXG Vector Signal Generator	3/19/2018	Annual	3/19/2019	US46240505
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2496A	Power Meter	10/9/2017	Annual	10/9/2018	1138001
Anritsu	MA2411B	Pulse Power Sensor	11/15/2017	Annual	11/15/2018	1339007
Anritsu	MA2411B	Pulse Power Sensor	11/22/2017	Annual	11/22/2018	1339008
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	2/14/2017	Biennial	2/14/2019	170112507
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/4/2018	Annual	6/4/2019	MY53401181
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/15/2018	Annual	5/15/2019	1070
SPEAG	ES3DV3	SAR Probe	9/18/2017	Annual	9/18/2018	3287
SPEAG	DAE4	Data Acquisition Electronics	1/26/2018	Annual	1/26/2019	1533
SPEAG	EX3DV4	SAR Probe	7/20/2018	Annual	7/20/2019	7416
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/18/2018	Annual	1/18/2019	793

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Sangmin Cha	Team Lead Engineer	
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	

DIPOLE CALIBRATION EXTENSION

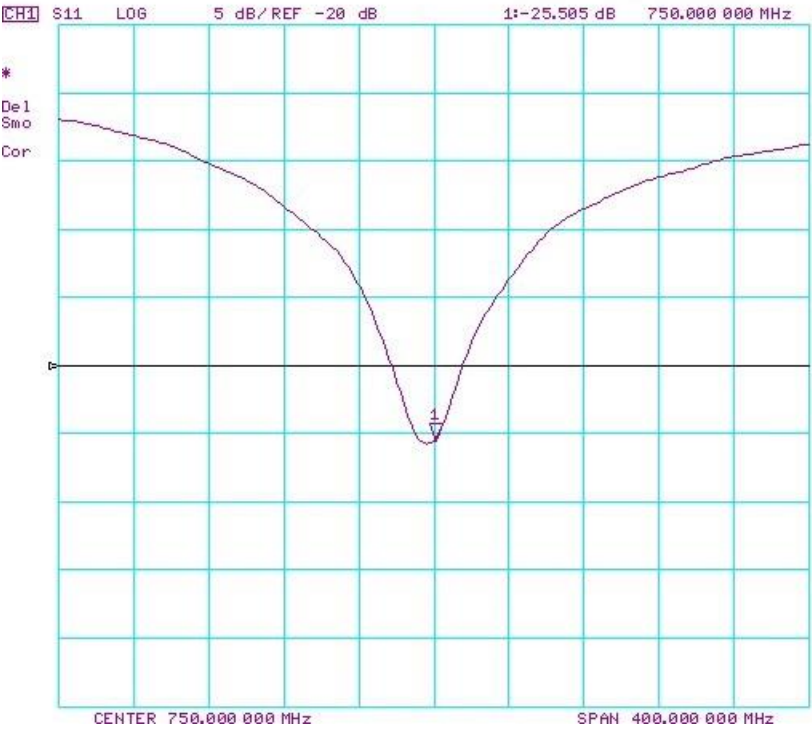
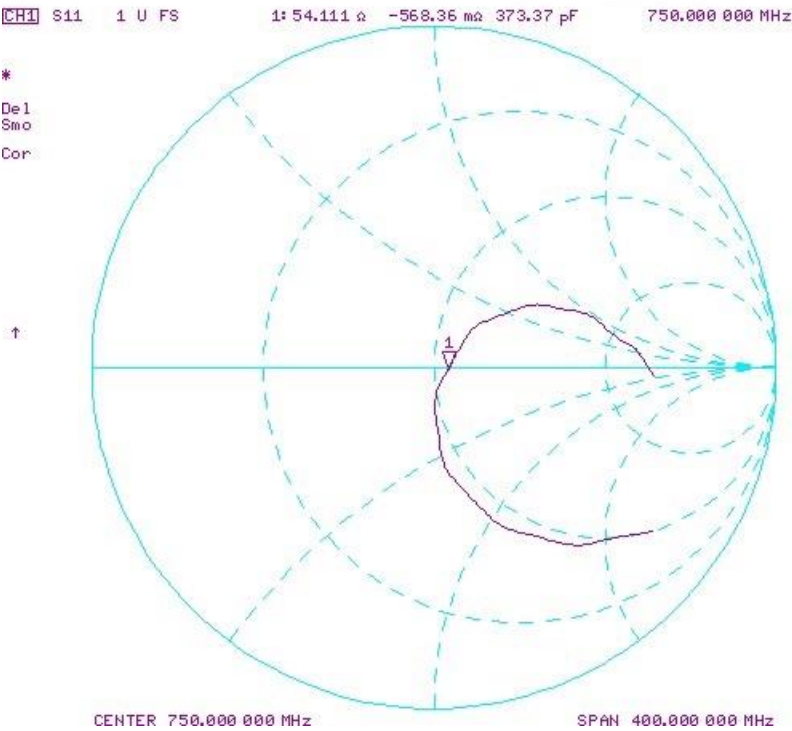
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

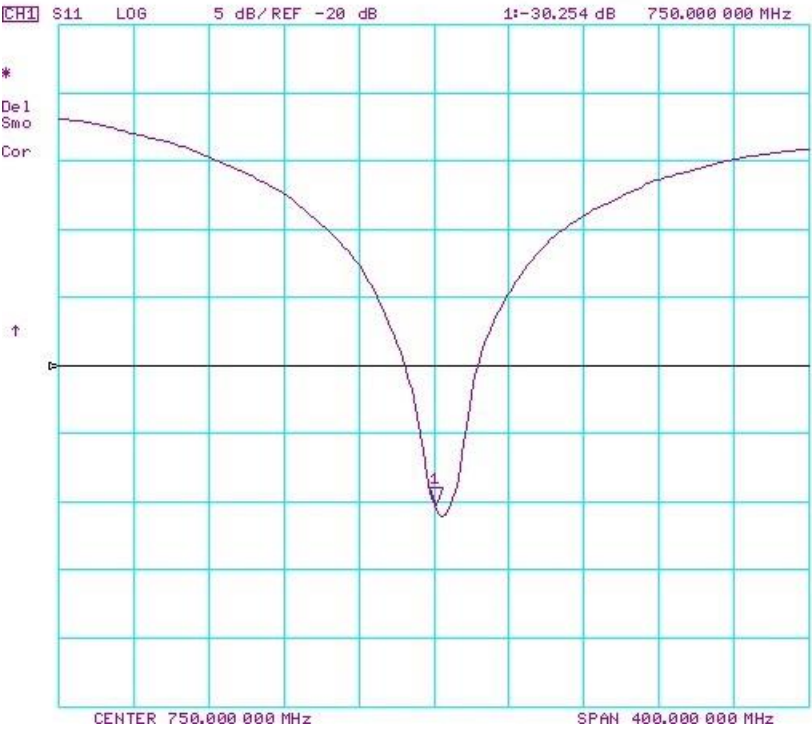
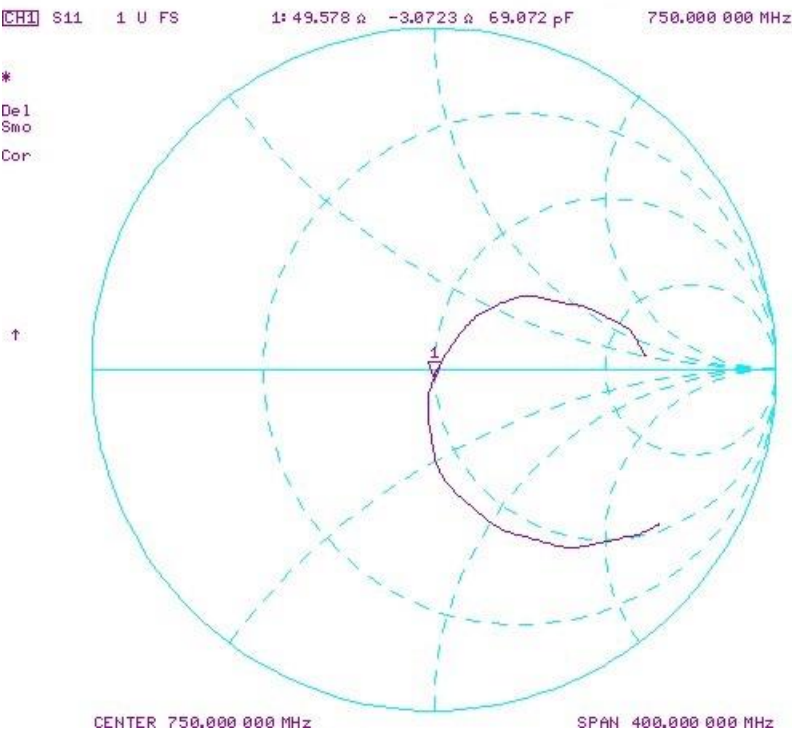
The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
9/8/2017	9/8/2018	1.034	1.644	1.7	3.41%	1.078	1.12	3.90%	54.4	54.1	0.3	-0.6	-0.6	0	-27.5	-25.5	7.30%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
9/8/2017	9/8/2018	1.034	1.712	1.78	3.97%	1.136	1.17	2.99%	50	49.6	0.4	-3.6	-3.1	0.5	-28.8	-30.3	-5.20%	PASS

Impedance & Return-Loss Measurement Plot for Head TSL



Impedance & Return-Loss Measurement Plot for Body TSL



Certification of Calibration

Object D750V3 – SN: 1097

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: September 8, 2019

Description: SAR Validation Dipole at 750 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	10/2/2018	Annual	10/2/2019	US39170118
Agilent	E4438C	ESG Vector Signal Generator	6/27/2019	Annual	6/27/2020	MY45093852
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	ML2495A	Power Meter	10/21/2018	Annual	10/21/2019	941001
Anritsu	MA2411B	Pulse Power Sensor	10/30/2018	Annual	10/30/2019	1207470
Anritsu	MA2411B	Pulse Power Sensor	11/20/2018	Annual	11/20/2019	1339007
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330160
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	11/1/2017	Biennial	11/1/2019	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/7/2019	Annual	5/7/2020	1070
SPEAG	EX3DV4	SAR Probe	1/24/2019	Annual	1/24/2020	7490
SPEAG	DAE4	Data Acquisition Electronics	1/15/2019	Annual	1/15/2020	1532

Measurement Uncertainty = $\pm 23\%$ (k=2)

	Name	Function	Signature
Calibrated By:	Parker Jones	Team Lead Engineer	<i>Parker Jones</i>
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	<i>KOK</i>

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

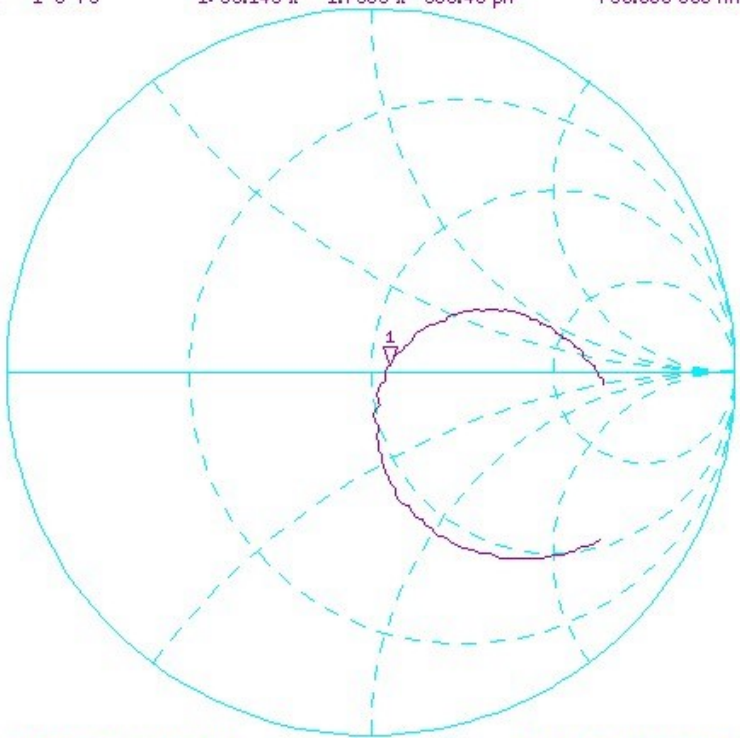
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 23.0 dBm	Measured Head SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 23.0 dBm	Measured Head SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
9/8/2017	9/8/2019	1.034	1.644	1.55	-5.11%	1.078	1.03	-4.45%	54.4	55.1	0.7	-0.6	1.7	2.3	-27.5	-25	5.50%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 23.0 dBm	Measured Body SAR (1g) W/kg @ 23.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 23.0 dBm	Measured Body SAR (10g) W/kg @ 23.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
9/8/2017	9/8/2019	1.034	1.712	1.65	-3.62%	1.136	1.1	-3.17%	50	51	1	-3.6	-1.3	2.3	-28.8	-31.9	-10.80%	PASS

Impedance & Return-Loss Measurement Plot for Head TSL

CH1 S11 1 U FS 1: 55.143 Ω 1.7363 Ω 368.46 pF 750.000 000 MHz

*
De1
Cor

↑



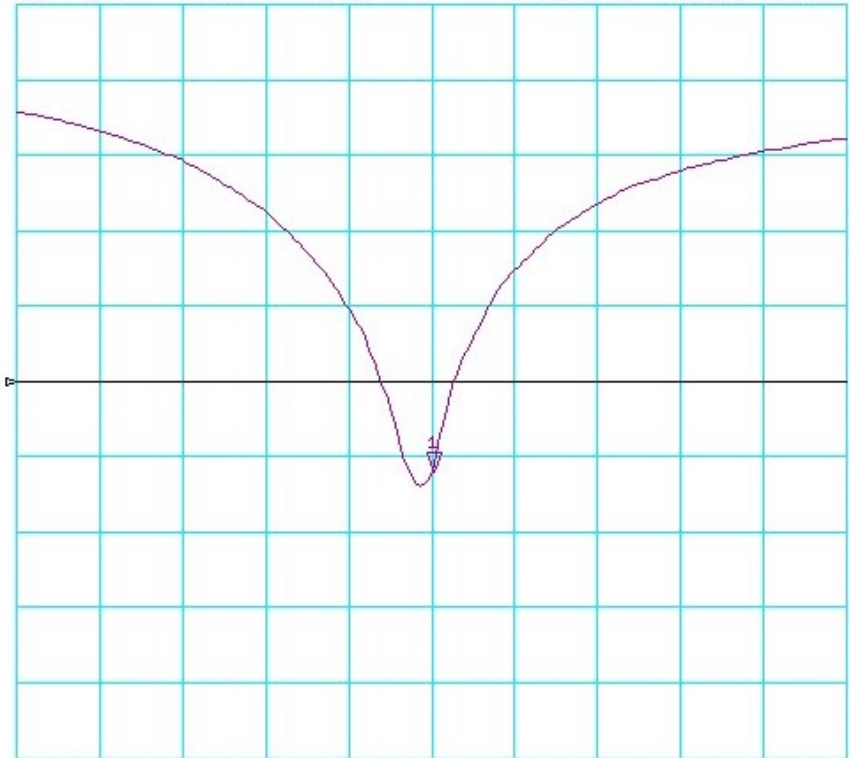
CENTER 750.000 000 MHz

SPAN 400.000 000 MHz

CH1 S11 LOG 5 dB/REF -20 dB 1:-26.011 dB 750.000 000 MHz

*
De1
Smo
Cor

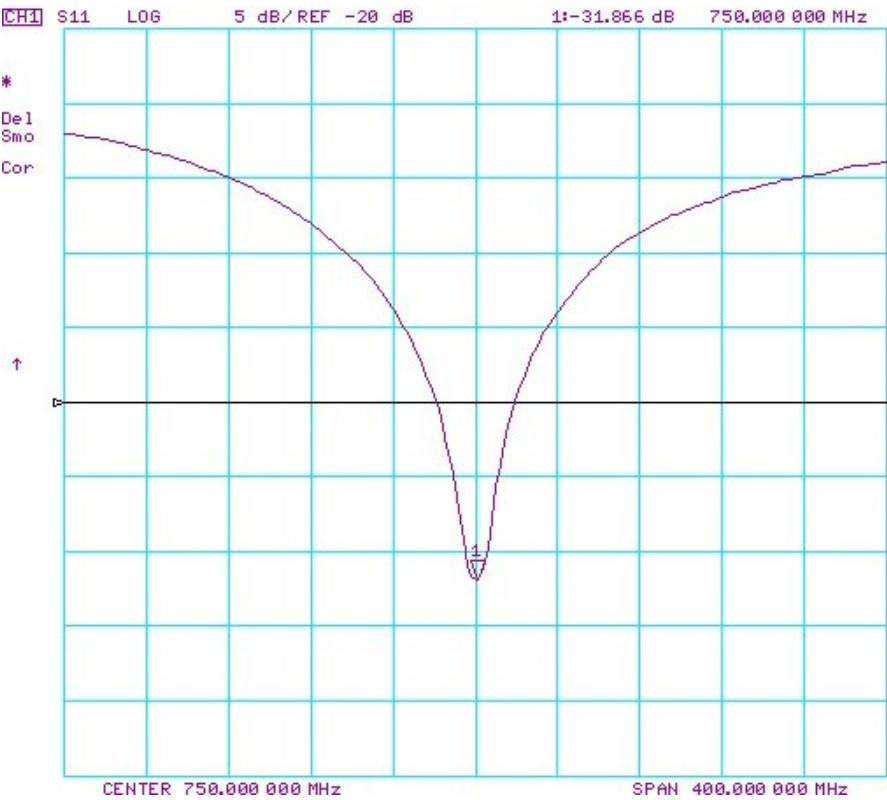
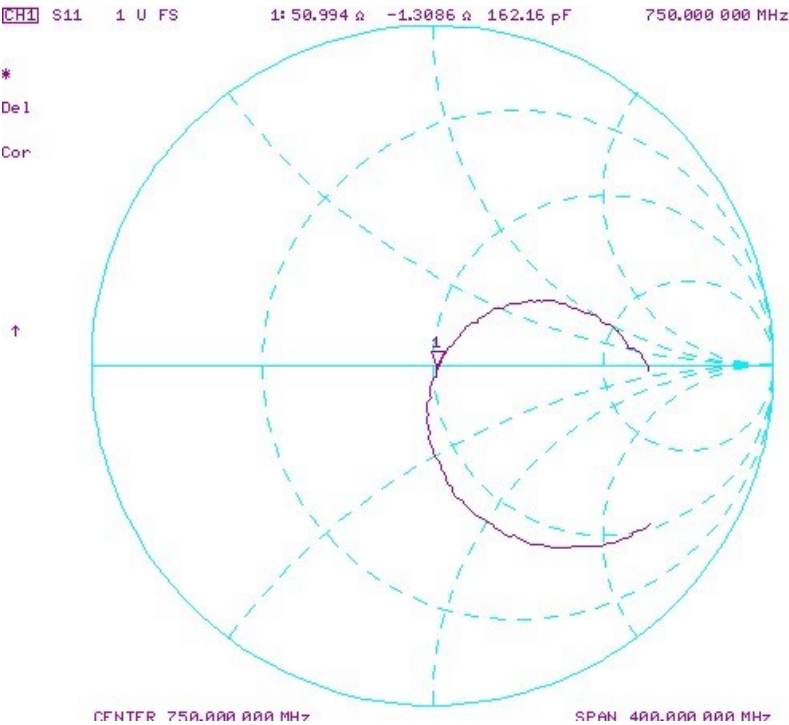
↑



CENTER 750.000 000 MHz

SPAN 400.000 000 MHz

Impedance & Return-Loss Measurement Plot for Body TSL





Accredited by the Swiss Accreditation Service (SAS)
 The Swiss Accreditation Service is one of the signatories to the EA
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **D835V2-4d040_Jun19**

CALIBRATION CERTIFICATE

Object **D835V2 - SN:4d040**

Calibration procedure(s) **QA CAL-05.v11**
Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

✓
 ATM
 6/28/19

Calibration date: **June 20, 2019**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-19 (No. 217-02894)	Apr-20
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-19 (No. 217-02895)	Apr-20
Reference Probe EX3DV4	SN: 7349	29-May-19 (No. EX3-7349_May19)	May-20
DAE4	SN: 601	30-Apr-19 (No. DAE4-601_Apr19)	Apr-20
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Feb-19)	In house check: Oct-20
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-18)	In house check: Oct-20
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

Calibrated by: **Manu Seitz** **Laboratory Technician**

Signature

Approved by: **Katja Pokovic** **Technical Manager**

Issued: June 21, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.