

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.887 \text{ S/m}$ ;  $\epsilon_r = 43.401$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/13/2020; Ambient Temp: 21.6°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 793 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 14, Left Head, Cheek, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

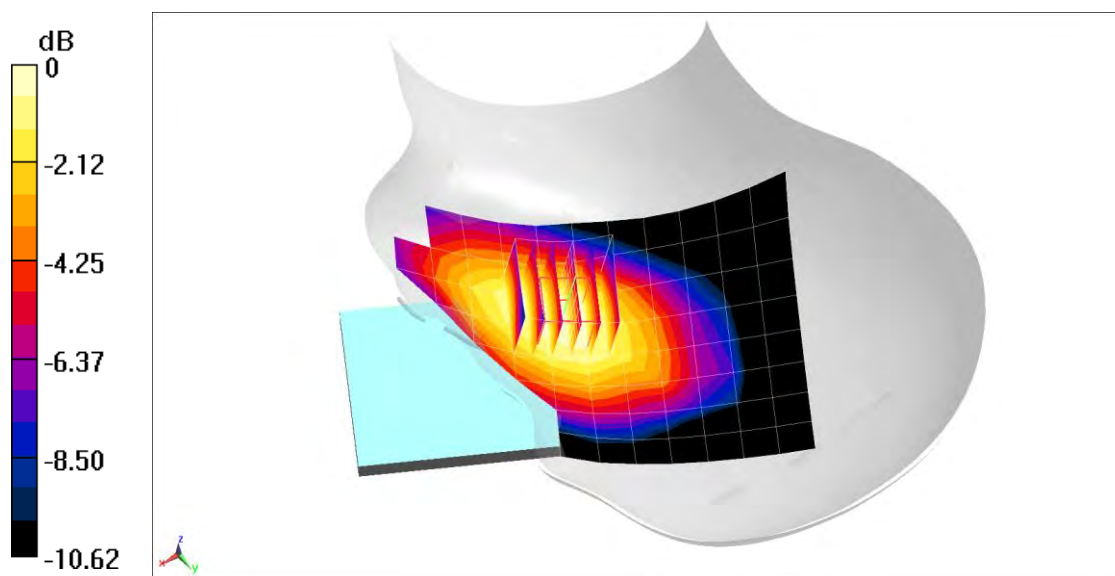
**Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.05 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.206 W/kg

**SAR(1 g) = 0.158 W/kg**



0 dB = 0.188 W/kg = -7.26 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1  
Medium: 835 Head; Medium parameters used (interpolated):  
 $f = 831.5 \text{ MHz}$ ;  $\sigma = 0.872 \text{ S/m}$ ;  $\epsilon_r = 41.956$ ;  $\rho = 1000 \text{ kg/m}^3$   
Phantom section: Left Section

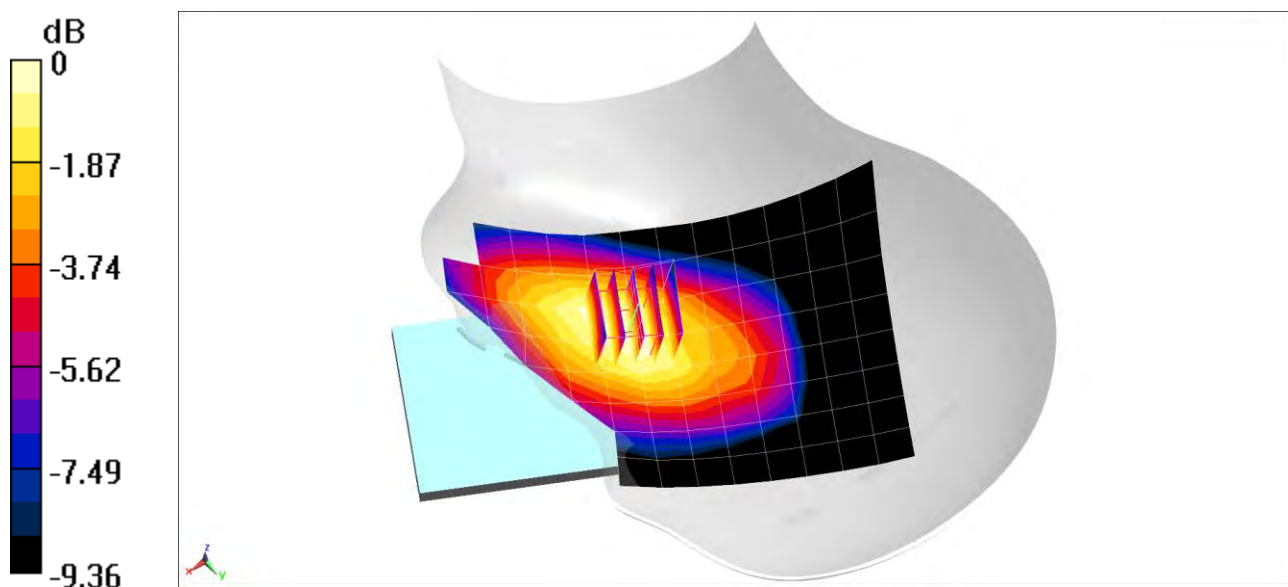
Test Date: 05/06/2020; Ambient Temp: 21.3°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 831.5 MHz; Calibrated: 9/19/2019  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn1333; Calibrated: 9/17/2019  
Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792  
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.), Left Head, Cheek, Mid.ch**  
**15 MHz Bandwidth, QPSK, 1 RB, 36 RB Offset**

**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 13.83 V/m; Power Drift = 0.04 dB  
Peak SAR (extrapolated) = 0.193 W/kg  
**SAR(1 g) = 0.147 W/kg**



0 dB = 0.175 W/kg = -7.57 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0086M**

Communication System: UID 0, LTE Band 5 (Cell.); Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.5$  MHz;  $\sigma = 0.886$  S/m;  $\epsilon_r = 40.617$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 05/11/2020; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.5 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), ULCA, Left Head, Cheek**

**PCC: 10 MHz Bandwidth, Ch. 20525, QPSK, 1 RB, 0 RB Offset**

**SCC: 5 MHz Bandwidth, Ch. 20453, QPSK, 1 RB, 24 RB Offset**

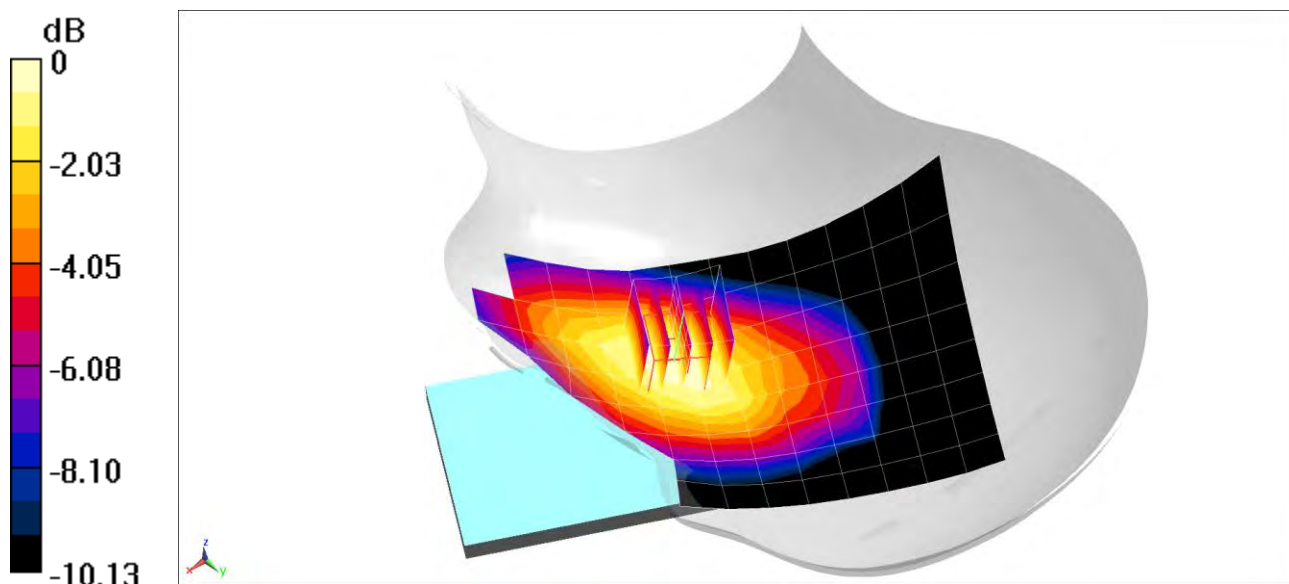
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 14.52 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.216 W/kg

**SAR(1 g) = 0.167 W/kg**



0 dB = 0.200 W/kg = -6.99 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0071M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used:

$f = 1720$  MHz;  $\sigma = 1.318$  S/m;  $\epsilon_r = 40.656$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/13/2020; Ambient Temp: 23.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(8.46, 8.46, 8.46) @ 1720 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), CA\_66C ULCA, Right Head, Cheek**

**PCC: 20 MHz Bandwidth, Ch. 132072, QPSK, 1 RB, 99 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 132270, QPSK, 1 RB, 0 RB Offset**

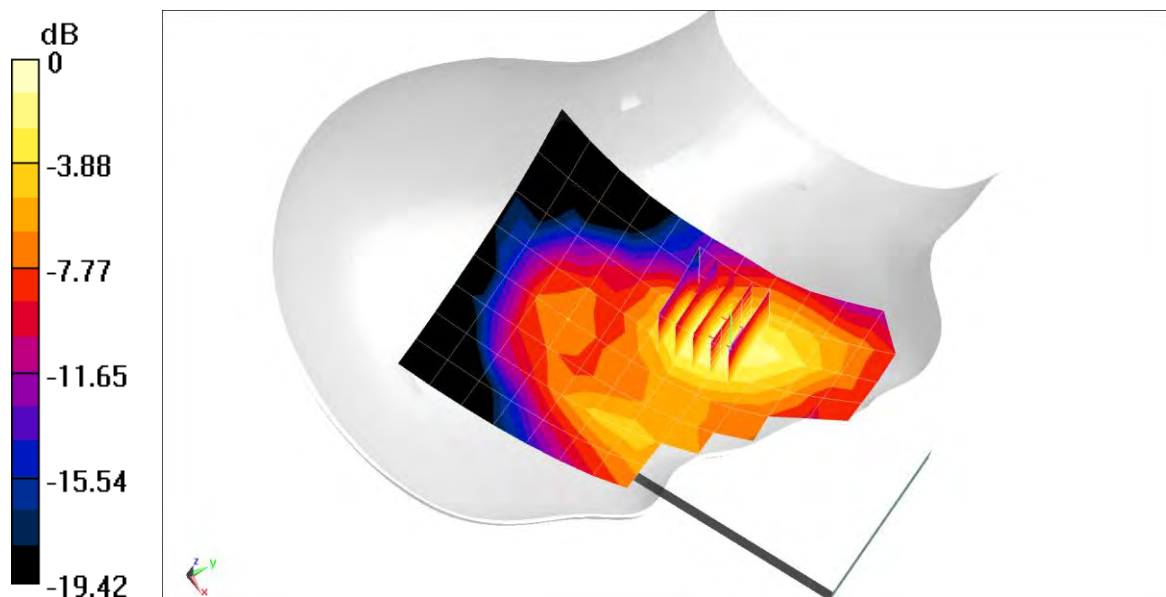
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 10.62 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.199 W/kg

**SAR(1 g) = 0.131 W/kg**



0 dB = 0.169 W/kg = -7.72 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0121M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: 1900 Head; Medium parameters used:

$f = 1860$  MHz;  $\sigma = 1.426$  S/m;  $\epsilon_r = 40.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/11/2020; Ambient Temp: 21.8°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7410; ConvF(8.11, 8.11, 8.11) @ 1860 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Right Head, Cheek, Low.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset**

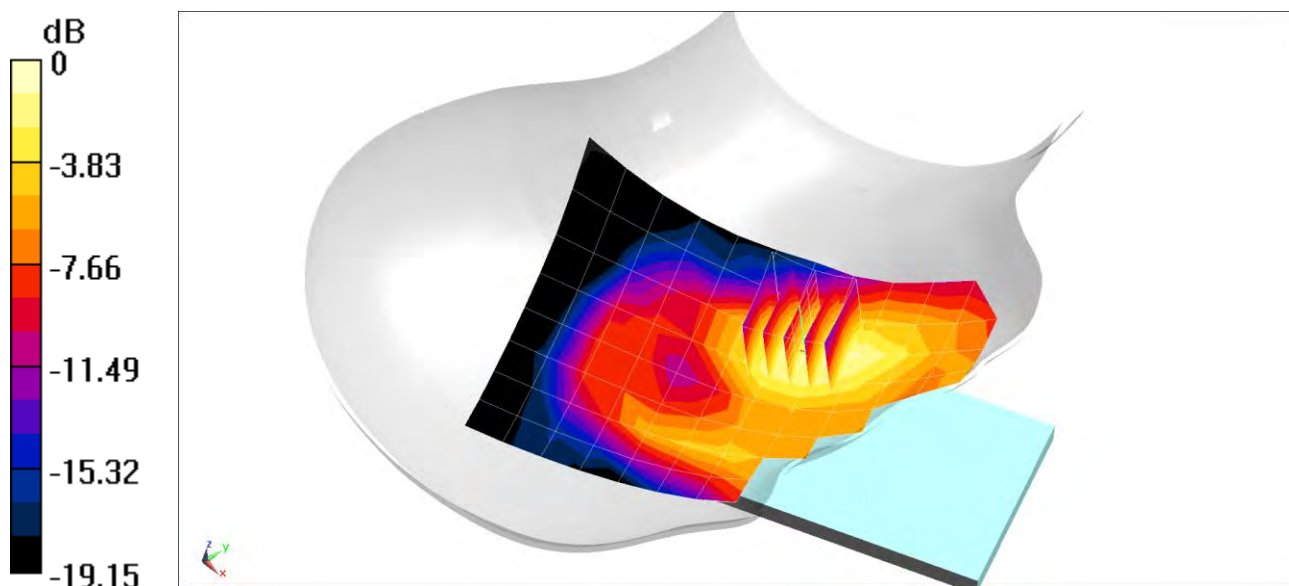
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 9.398 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.111 W/kg**



0 dB = 0.147 W/kg = -8.33 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used:

$f = 2310$  MHz;  $\sigma = 1.689$  S/m;  $\epsilon_r = 39.976$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 04/29/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11) @ 2310 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 30, Left Head, Cheek, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

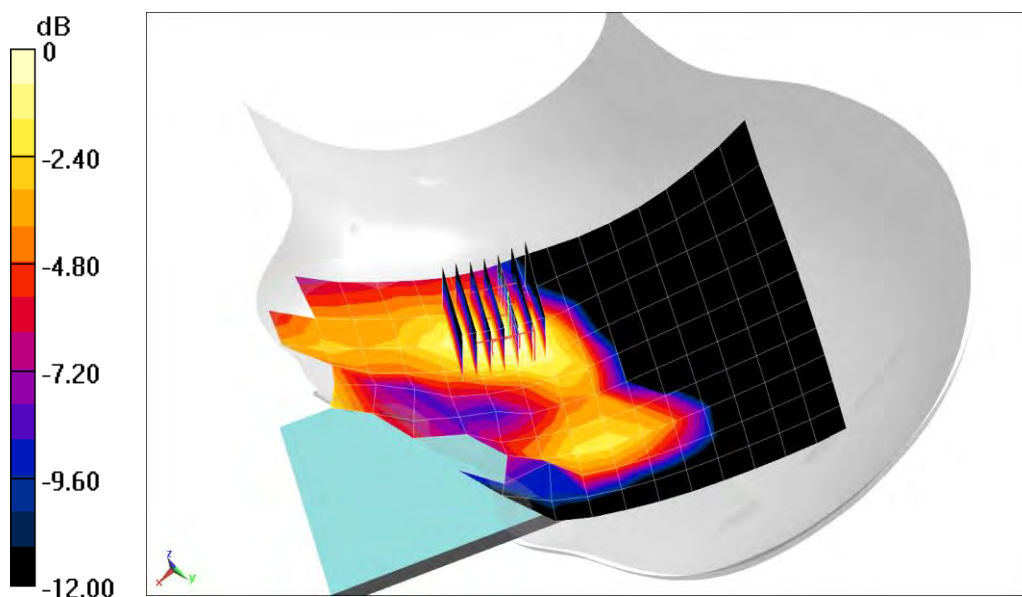
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 6.239 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.0850 W/kg

**SAR(1 g) = 0.050 W/kg**



0 dB = 0.0735 W/kg = -11.34 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0090M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used:

$f = 2510$  MHz;  $\sigma = 1.843$  S/m;  $\epsilon_r = 38.311$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section; Space: 1.0 cm

Test Date: 05/03/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2510 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7, Right Head, Cheek, Low.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

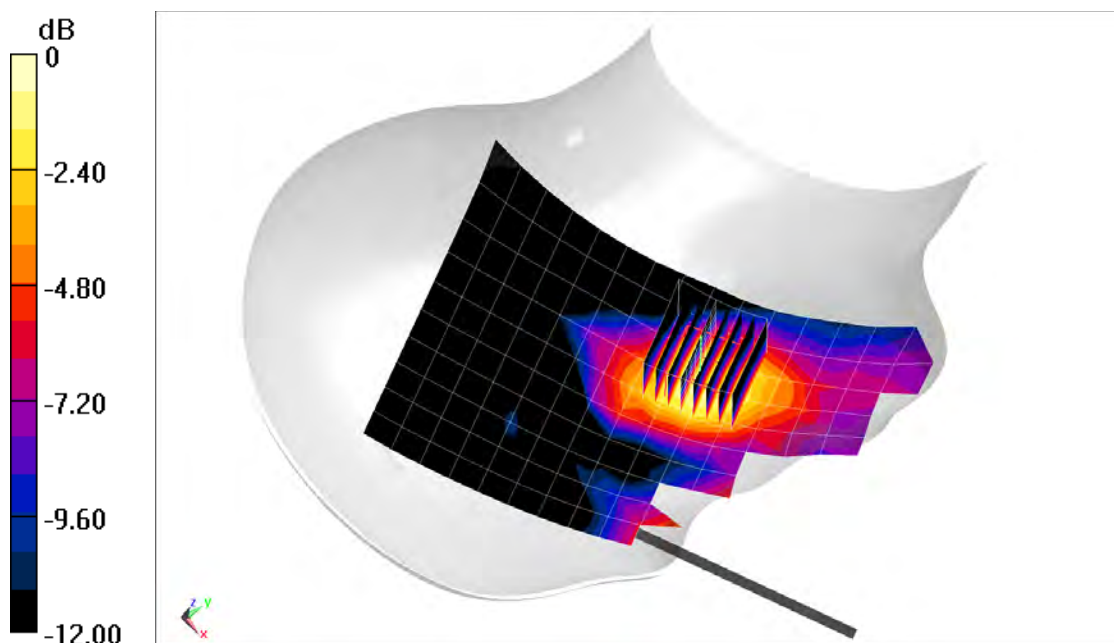
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.590 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.187 W/kg

**SAR(1 g) = 0.106 W/kg**



0 dB = 0.154 W/kg = -8.12 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1184M**

Communication System: UID 0, LTE Band 48; Frequency: 3646.7 MHz; Duty Cycle: 1:1.58

Medium: 3600 Head; Medium parameters used (interpolated):

$f = 3646.7$  MHz;  $\sigma = 3.039$  S/m;  $\epsilon_r = 39.459$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 06/01/2020; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(7.2, 7.2, 7.2) @ 3646.7 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 left 20; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 48, ULCA, Right Head, Tilt**

**PCC: 20 MHz Bandwidth, Ch. 56207, QPSK, 50 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 56009, QPSK, 50 RB, 50 RB Offset**

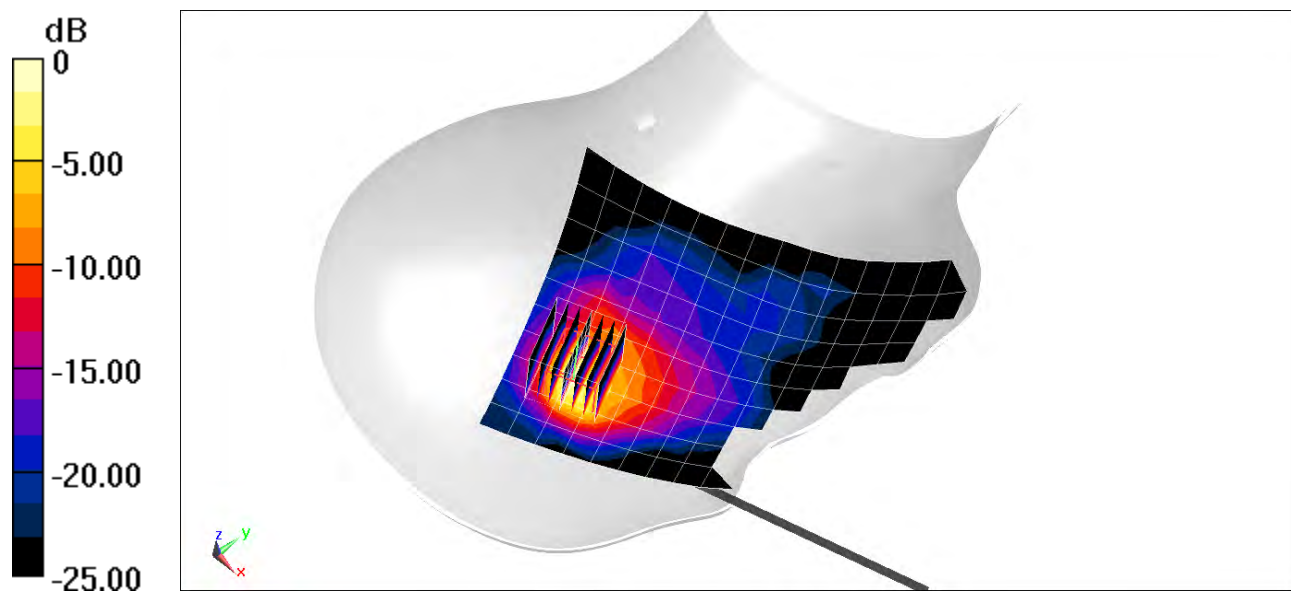
**Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 14.75 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 0.479 W/kg**



0 dB = 1.08 W/kg = 0.33 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0085M**

Communication System: UID 0, \_LTE Band 41 (Class 2); Frequency: 2506 MHz; Duty Cycle: 1:2.31

Medium: 2450 Head; Medium parameters used (interpolated):

$f = 2506 \text{ MHz}$ ;  $\sigma = 1.822 \text{ S/m}$ ;  $\epsilon_r = 40.001$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/24/2020; Ambient Temp: 23.2°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2506 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41 PC2, ULCA, Left Head, Cheek**

**PCC: 20 MHz Bandwidth, Ch. 39750, QPSK, 1 RB, 99 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 39948, QPSK, 1 RB, 0 RB Offset**

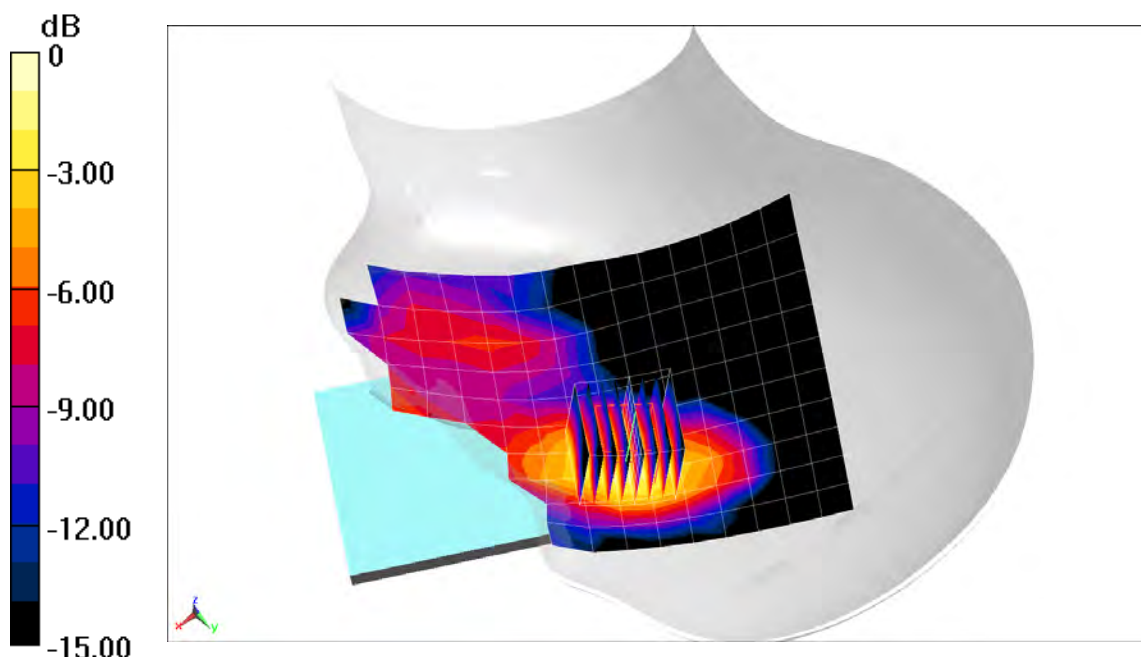
**Area Scan (11x17x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.036 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.133 W/kg

**SAR(1 g) = 0.077 W/kg**



0 dB = 0.111 W/kg = -9.55 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0070M**

Communication System: UID 0, NR Band n71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used (interpolated):

$f = 680.5$  MHz;  $\sigma = 0.884$  S/m;  $\epsilon_r = 42.697$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 05/17/2020; Ambient Temp: 22.3°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 680.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n71, Left Head, Cheek, 20 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 136100, 1 RB, 53 RB Offset**

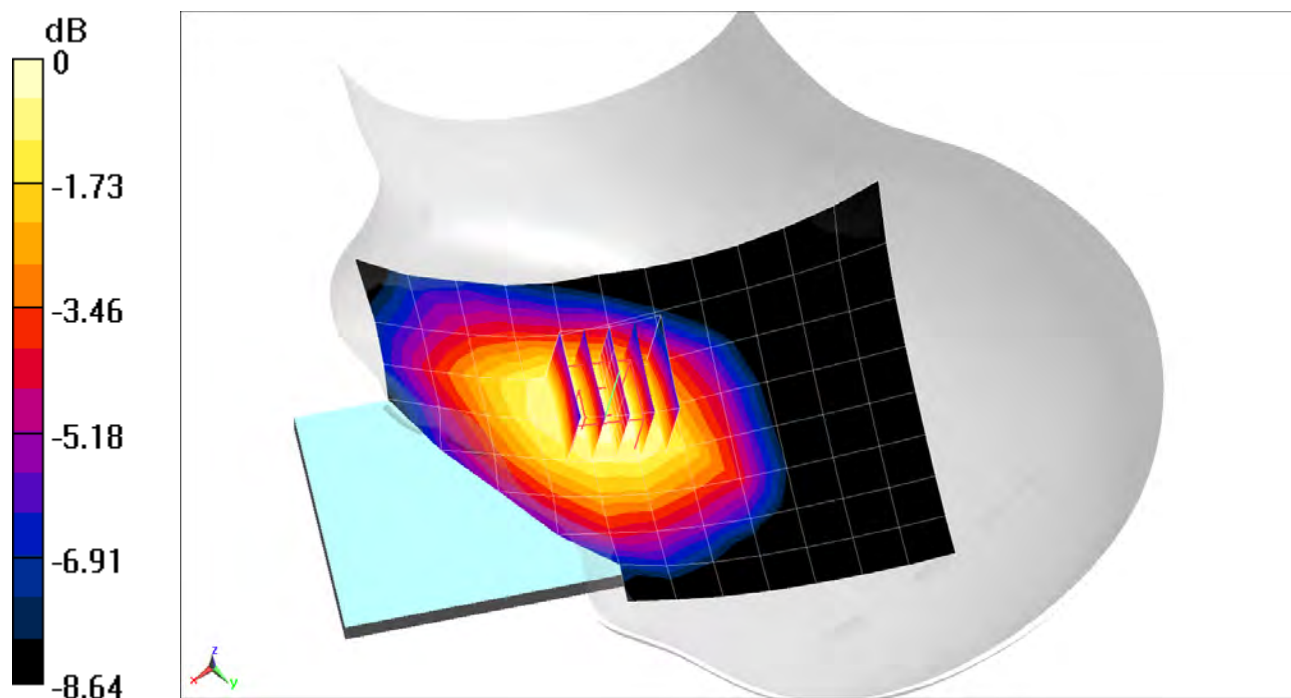
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 10.35 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.144 W/kg

**SAR(1 g) = 0.112 W/kg**



0 dB = 0.132 W/kg = -8.79 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0095M**

Communication System: UID 0, NR Band n12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used (interpolated):

$f = 707.5$  MHz;  $\sigma = 0.86$  S/m;  $\epsilon_r = 41.689$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Test Date: 05/20/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 707.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n12, Left Head, Cheek, 15 MHz Bandwidth  
DFT-s-OFDM QPSK, Ch. 141500, 1 RB, 77 RB Offset**

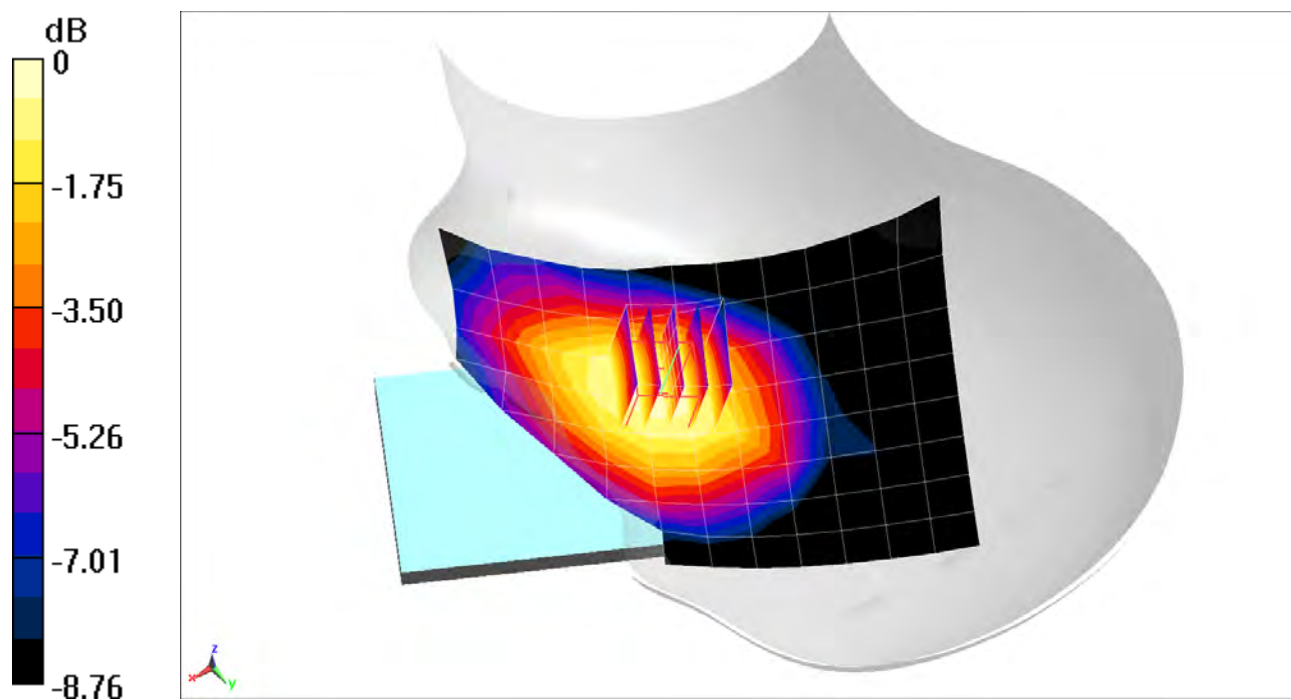
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 11.51 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.141 W/kg

**SAR(1 g) = 0.110 W/kg**



0 dB = 0.130 W/kg = -8.86 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0089M**

Communication System: UID 0, NR Band n5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.5 \text{ MHz}$ ;  $\sigma = 0.907 \text{ S/m}$ ;  $\epsilon_r = 40.97$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Test Date: 05/13/2020; Ambient Temp: 21.5°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 836.5 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n5, Left Head, Cheek, 20 MHz Bandwidth**

**DFT-s-OFDM QPSK, Ch. 167300, 1 RB, 53 RB Offset**

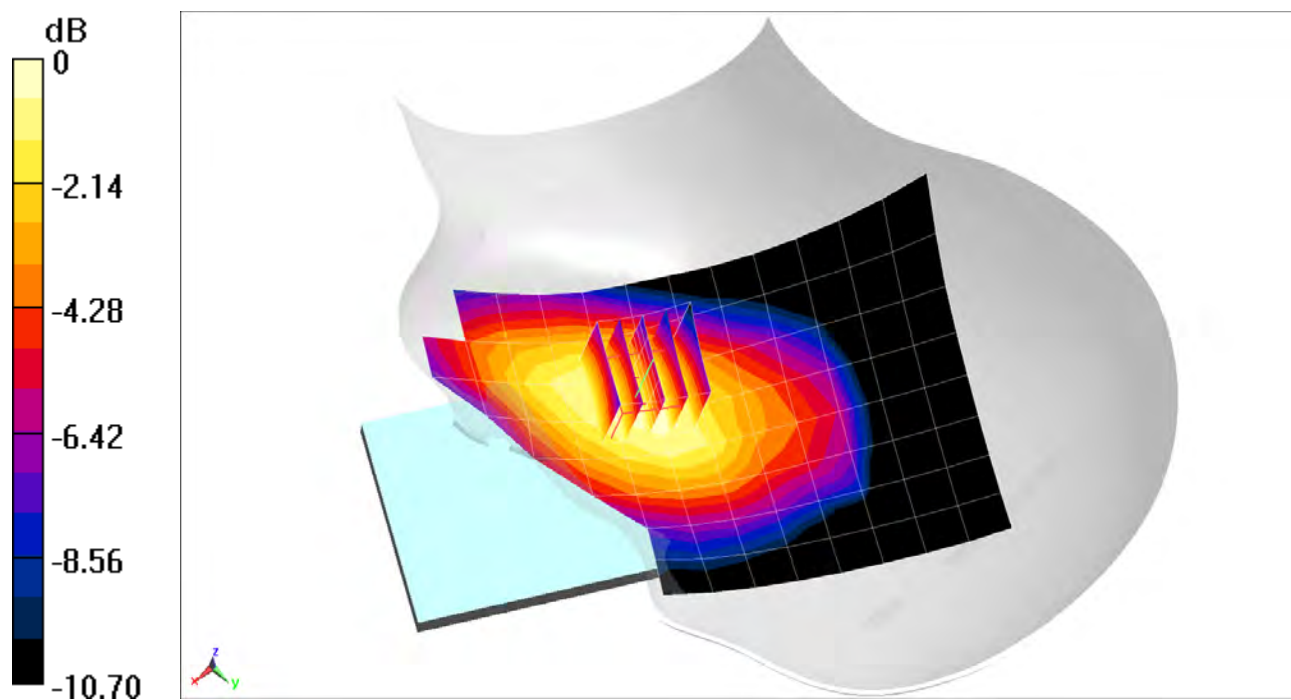
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.87 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.214 W/kg

**SAR(1 g) = 0.161 W/kg**



0 dB = 0.196 W/kg = -7.08 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0066M**

Communication System: UID 0, NR Band n66; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used:

$f = 1720$  MHz;  $\sigma = 1.318$  S/m;  $\epsilon_r = 40.656$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/13/2020; Ambient Temp: 23.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(8.46, 8.46, 8.46) @ 1720 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n66, Right Head, Cheek, 20 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 344000, 50 RB, 28 RB Offset**

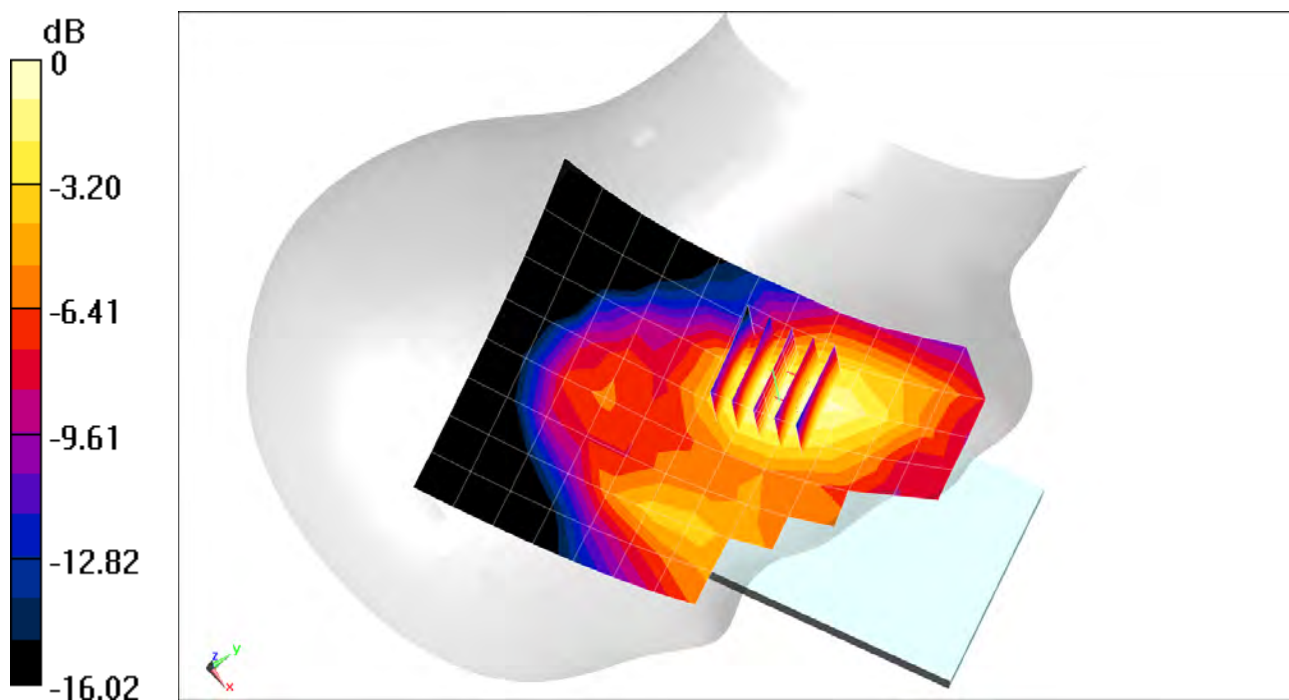
**Area Scan (9x13x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 10.22 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.180 W/kg

**SAR(1 g) = 0.120 W/kg**



0 dB = 0.154 W/kg = -8.12 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0065M**

Communication System: UID 0, NR Band n25; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Head; Medium parameters used:

$f = 1905 \text{ MHz}$ ;  $\sigma = 1.453 \text{ S/m}$ ;  $\epsilon_r = 40.952$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05/11/2020; Ambient Temp: 21.8°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7410; ConvF(8.11, 8.11, 8.11) @ 1905 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n25, Right Head, Cheek, 20 MHz Bandwidth**

**DFT-s-OFDM QPSK, Ch. 381000, 50 RB, 28 RB Offset**

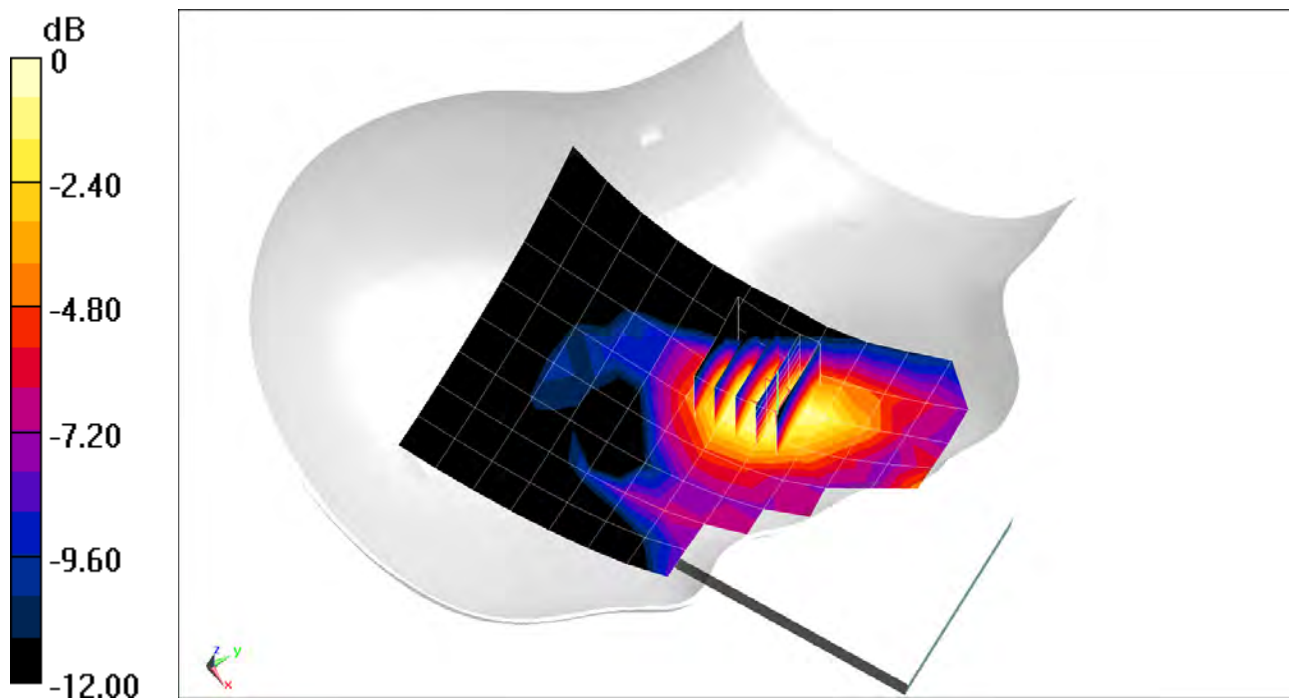
**Area Scan (9x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.22 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.197 W/kg

**SAR(1 g) = 0.129 W/kg**



0 dB = 0.169 W/kg = -7.72 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1187M**

Communication System: UID 0, NR Band n41; Frequency: 2592.99 MHz; Duty Cycle: 1:4

Medium: 2450 Head; Medium parameters used (interpolated):

$f = 2592.99$  MHz;  $\sigma = 1.894$  S/m;  $\epsilon_r = 40.482$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/31/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3589; ConvF(6.6, 6.6, 6.6) @ 2592.99 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n41, Right Head, Tilt, 100 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 518598, 1 RB, 1 RB Offset**

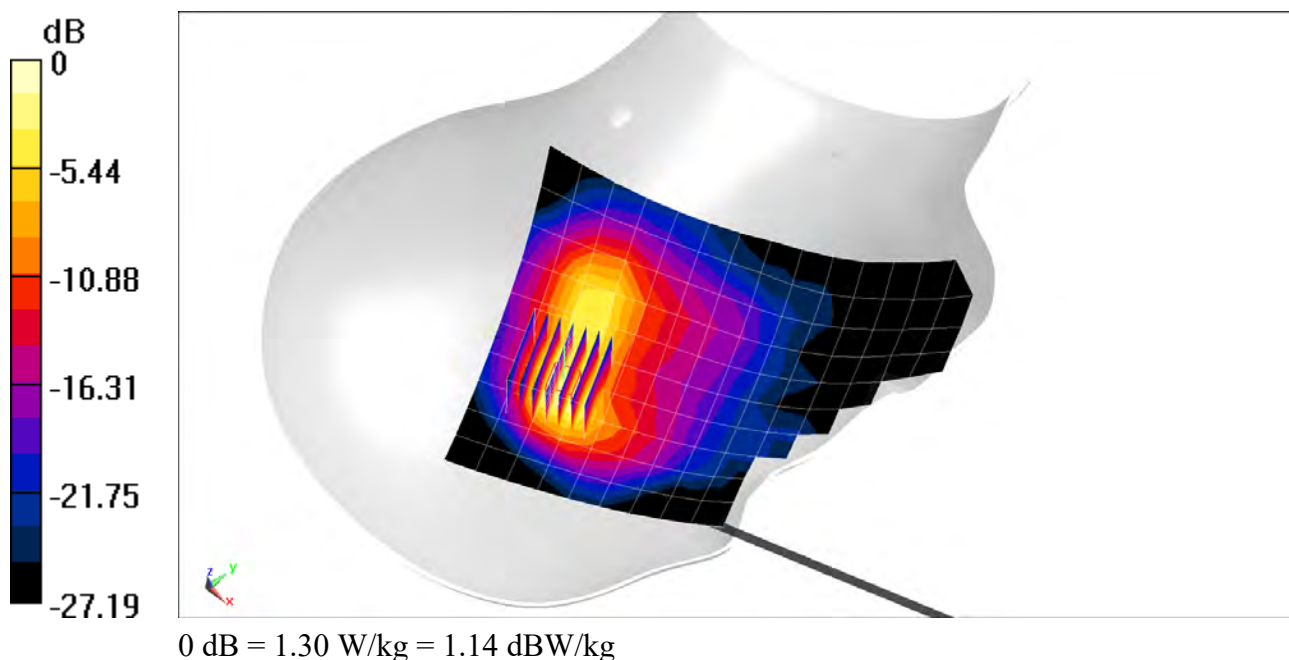
**Area Scan (11x16x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 22.55 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.682 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0704M**

Communication System: UID 0, 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used (interpolated):

$f = 2437 \text{ MHz}$ ;  $\sigma = 1.783 \text{ S/m}$ ;  $\epsilon_r = 39.55$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2437 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1,  
Right Head, Tilt, Ch 6, 1 Mbps**

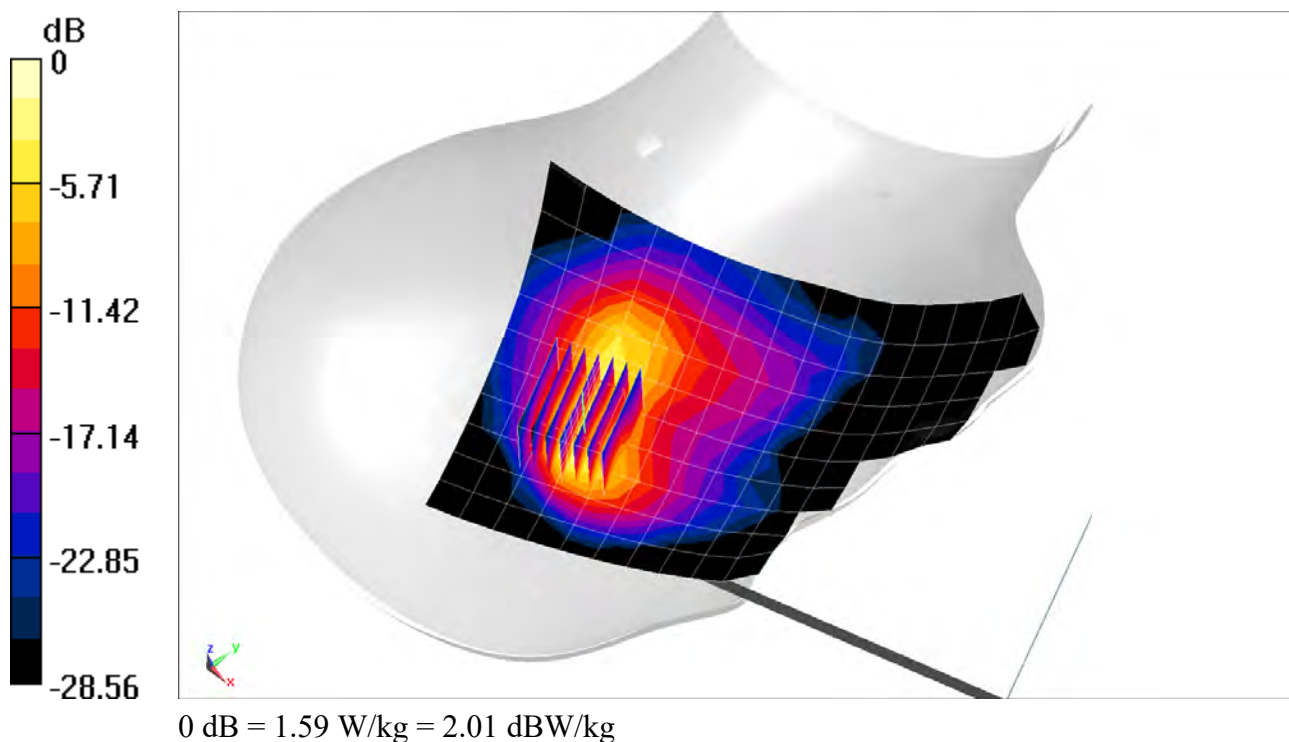
**Area Scan (11x18x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (8x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.56 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.09 W/kg

**SAR(1 g) = 0.786 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0704M**

Communication System: UID 0, IEEE 802.11ac; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head; Medium parameters used:

$f = 5775 \text{ MHz}$ ;  $\sigma = 5.267 \text{ S/m}$ ;  $\epsilon_r = 33.975$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Test Date: 05/28/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(5.05, 5.05, 5.05) @ 5775 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11ac, U-NII-3, 80 MHz Bandwidth, Antenna 1**  
**Right Head, Cheek, Ch 155, 29.3 Mbps**

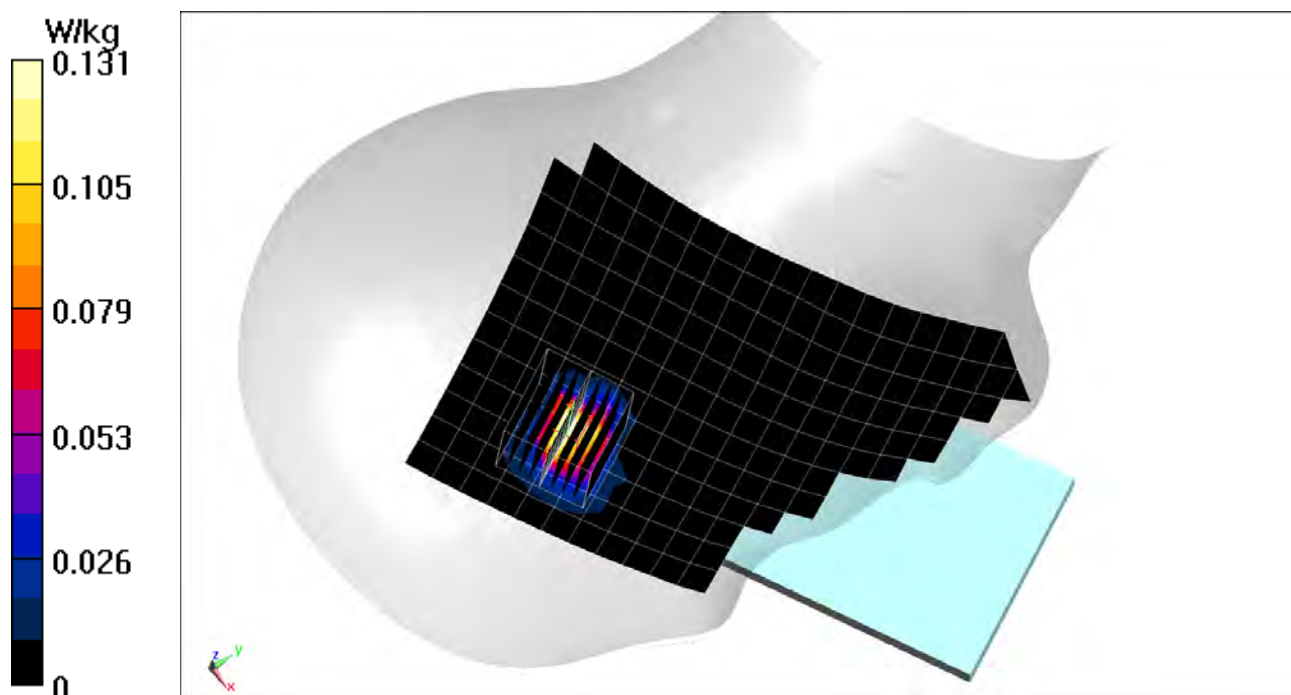
**Area Scan (13x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (9x9x8)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 2.64 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.440 W/kg

**SAR(1 g) = 0.039 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1175M**

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.294

Medium: 2450 Head; Medium parameters used:

$f = 2480$  MHz;  $\sigma = 1.813$  S/m;  $\epsilon_r = 39.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2480 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Right Head, Tilt, Ch 78, 1 Mbps**

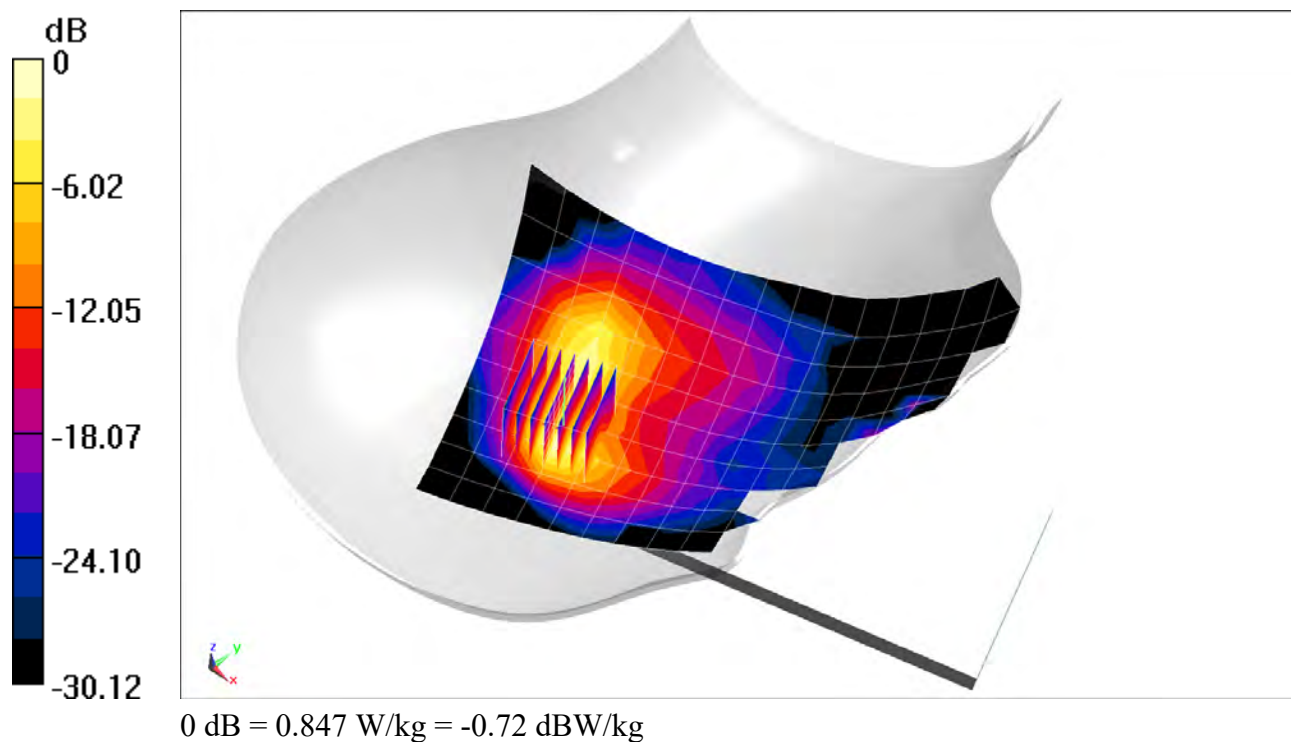
**Area Scan (11x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 15.12 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.432 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, CDMA; Frequency: 820.1 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 820.1$  MHz;  $\sigma = 0.929$  S/m;  $\epsilon_r = 53.581$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 820.1 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Cell. CDMA, Rule Part 90S, Body SAR, Back side, Mid.ch**

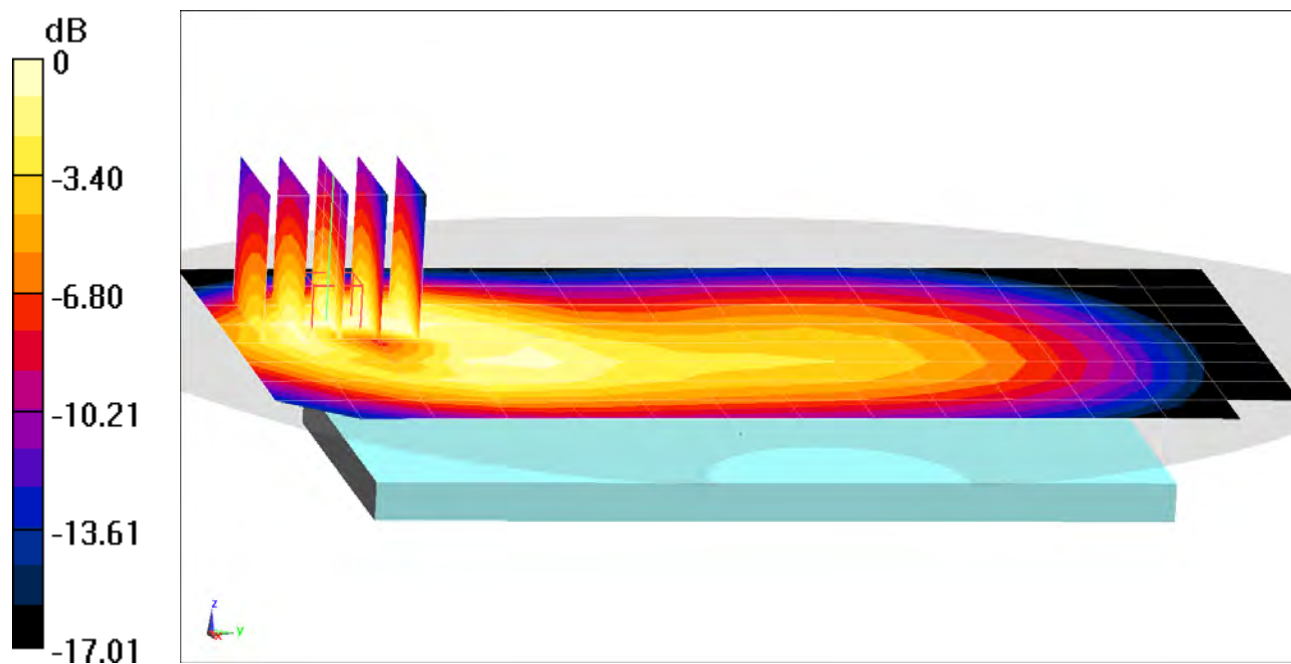
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 20.11 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.349 W/kg**



0 dB = 0.488 W/kg = -3.12 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, CDMA; Frequency: 820.1 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 820.1$  MHz;  $\sigma = 0.945$  S/m;  $\epsilon_r = 54.644$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2020; Ambient Temp: 22.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 820.1 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Cell. EVDO, Rule Part 90S, Body SAR, Back side, Mid.ch**

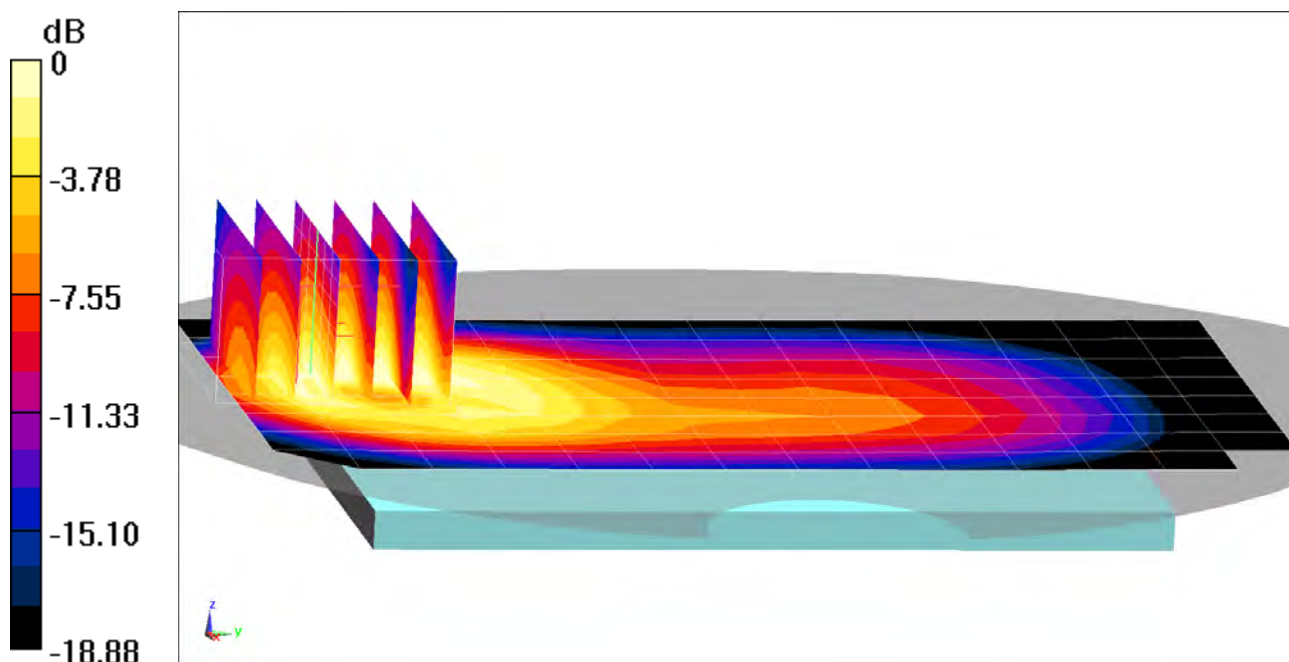
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.63 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.799 W/kg**



0 dB = 1.12 W/kg = 0.49 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.52$  MHz;  $\sigma = 0.946$  S/m;  $\epsilon_r = 53.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 836.52 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Cell. CDMA, Rule Part 22H, Body SAR, Back side, Mid.ch**

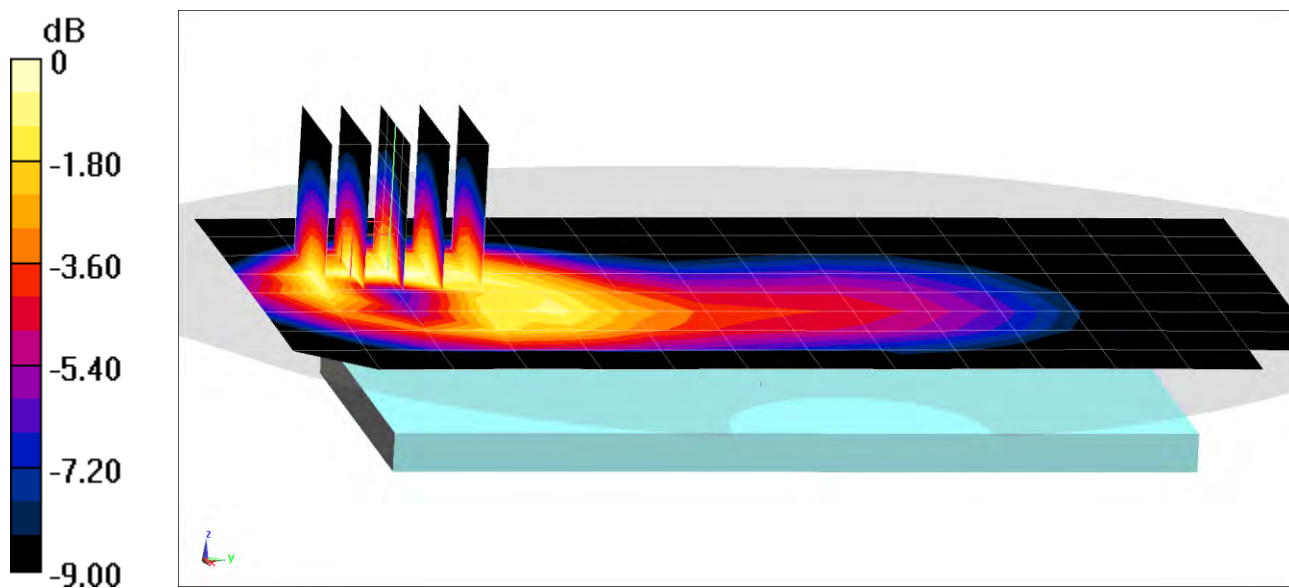
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.37 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.558 W/kg

**SAR(1 g) = 0.335 W/kg**



0 dB = 0.467 W/kg = -3.31 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, CDMA; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.52$  MHz;  $\sigma = 0.946$  S/m;  $\epsilon_r = 53.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 836.52 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: Cell. EVDO, Rule Part 22H, Body SAR, Back side, Mid.ch**

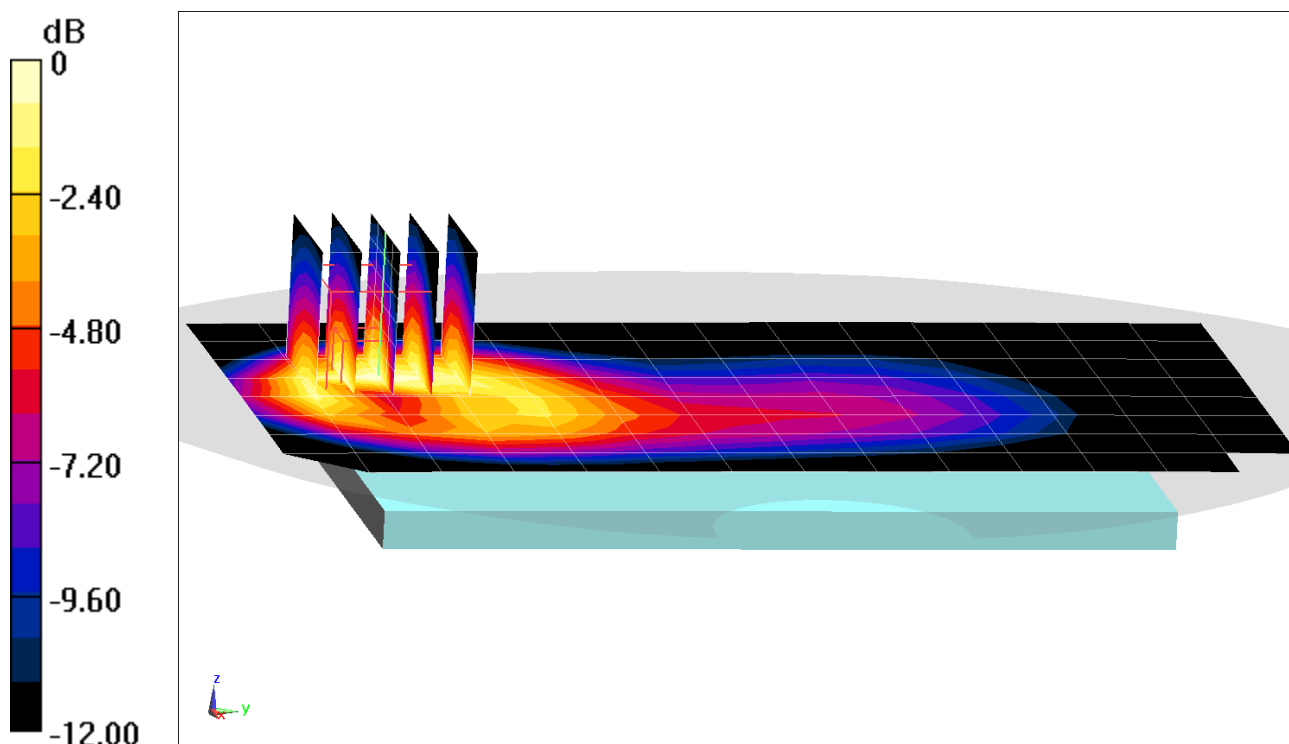
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 26.76 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.11 W/kg

**SAR(1 g) = 0.641 W/kg**



0 dB = 0.921 W/kg = -0.36 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

$f = 1908.75$  MHz;  $\sigma = 1.555$  S/m;  $\epsilon_r = 54.587$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/17/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1908.75 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: PCS CDMA, Body SAR, Back side, High.ch**

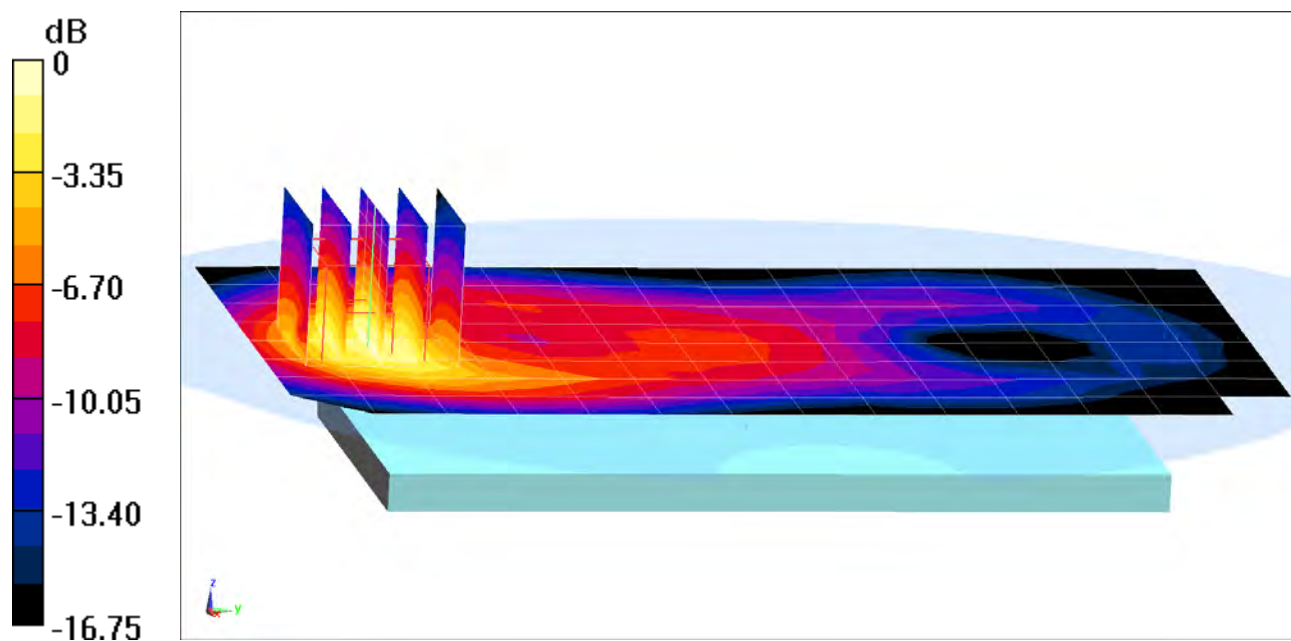
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 21.76 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.656 W/kg**



0 dB = 0.926 W/kg = -0.33 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

$f = 1908.75$  MHz;  $\sigma = 1.569$  S/m;  $\epsilon_r = 52.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/26/2020; Ambient Temp: 24.1°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1908.75 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: PCS EVDO, Body SAR, Bottom Edge, High.ch**

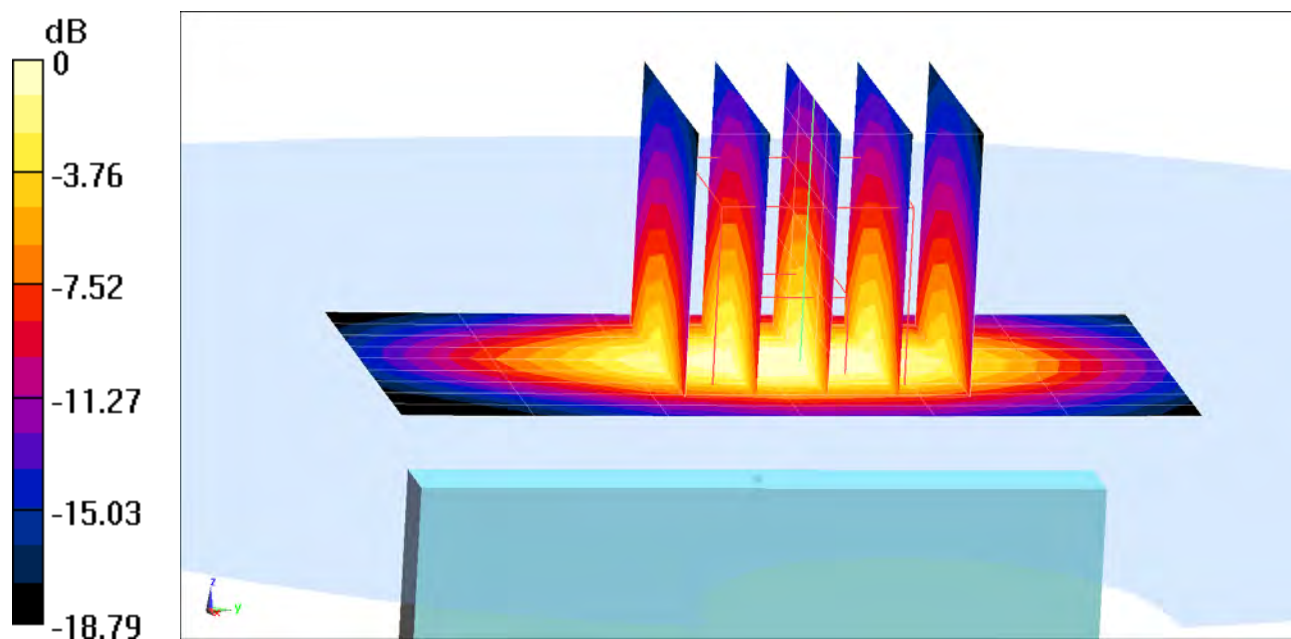
**Area Scan (10x7x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 27.76 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 1.08 W/kg**



0 dB = 1.63 W/kg = 2.12 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6$  MHz;  $\sigma = 0.946$  S/m;  $\epsilon_r = 53.413$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 836.6 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: GSM 850, Body SAR, Back side, Mid.ch**

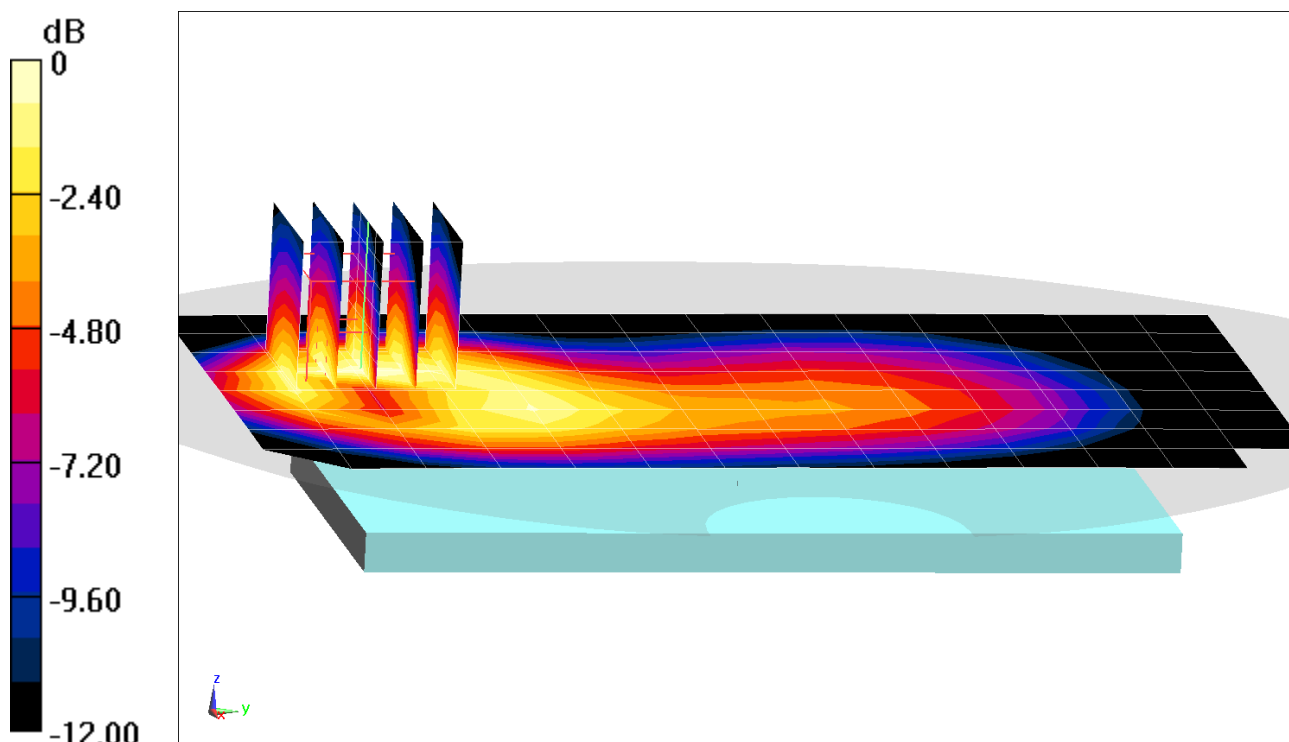
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 16.36 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.391 W/kg

**SAR(1 g) = 0.238 W/kg**



0 dB = 0.332 W/kg = -4.79 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, \_GSM GPRS; 3 Tx slots; Frequency: 836.6 MHz; Duty Cycle: 1:2.76

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6$  MHz;  $\sigma = 0.946$  S/m;  $\epsilon_r = 53.413$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 836.6 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: GPRS 850, Body SAR, Back side, Mid.ch, 3 Tx Slots**

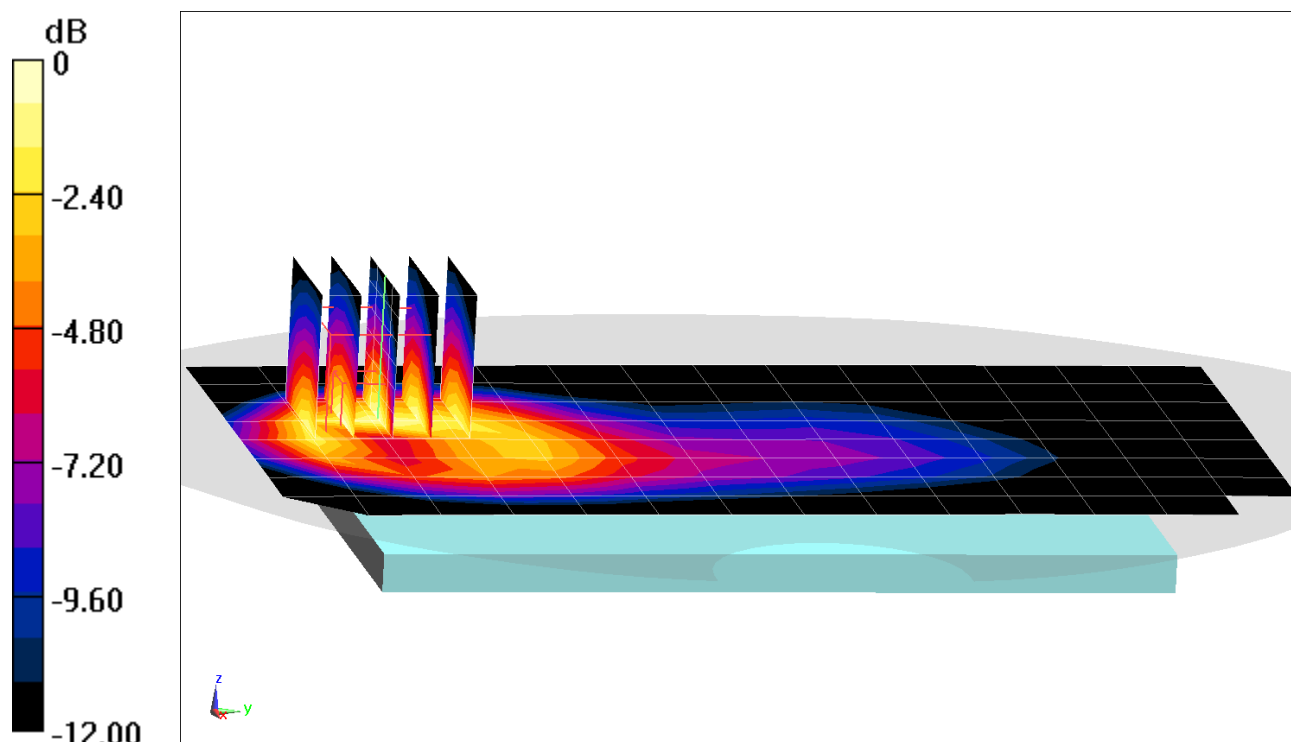
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 25.07 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.668 W/kg**



0 dB = 0.959 W/kg = -0.18 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: 1900 Body; Medium parameters used:

$f = 1880$  MHz;  $\sigma = 1.526$  S/m;  $\epsilon_r = 53.339$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/10/2020; Ambient Temp: 22.6°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1880 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: GSM 1900, Body SAR, Back side, Mid.ch**

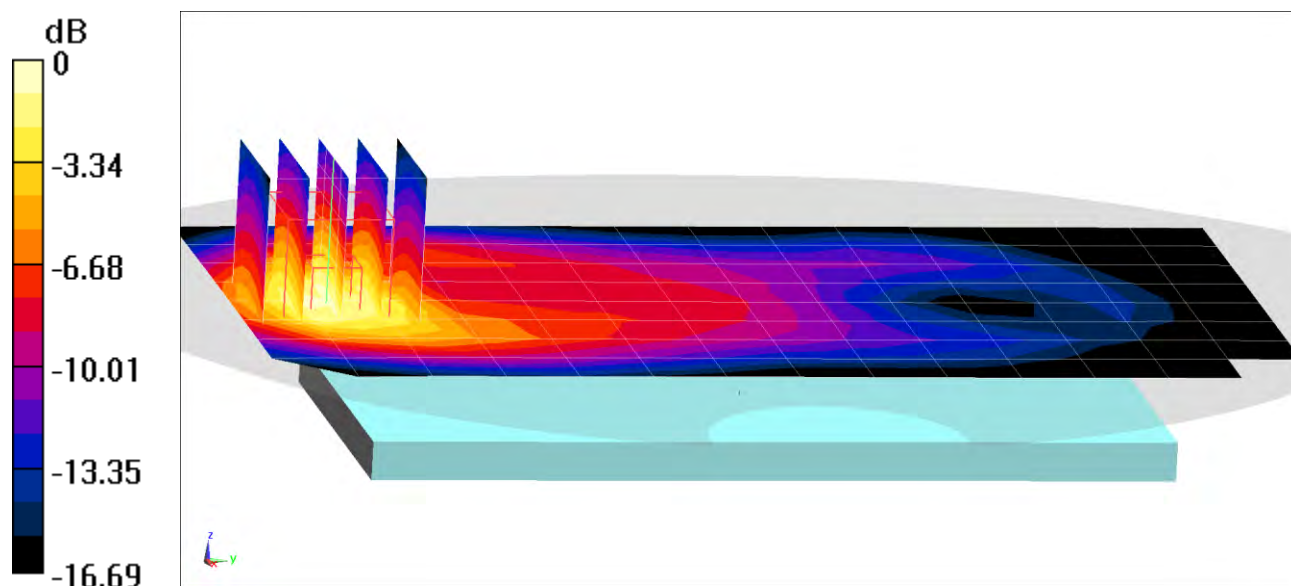
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 15.67 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.536 W/kg

**SAR(1 g) = 0.334 W/kg**



0 dB = 0.467 W/kg = -3.31 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, GSM GPRS; 4 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:2.076

Medium: 1900 Body; Medium parameters used:

$f = 1910 \text{ MHz}$ ;  $\sigma = 1.56 \text{ S/m}$ ;  $\epsilon_r = 53.267$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/10/2020; Ambient Temp: 22.6°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1909.8 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: GPRS 1900, Body SAR, Bottom Edge, High.ch, 4 Tx Slots**

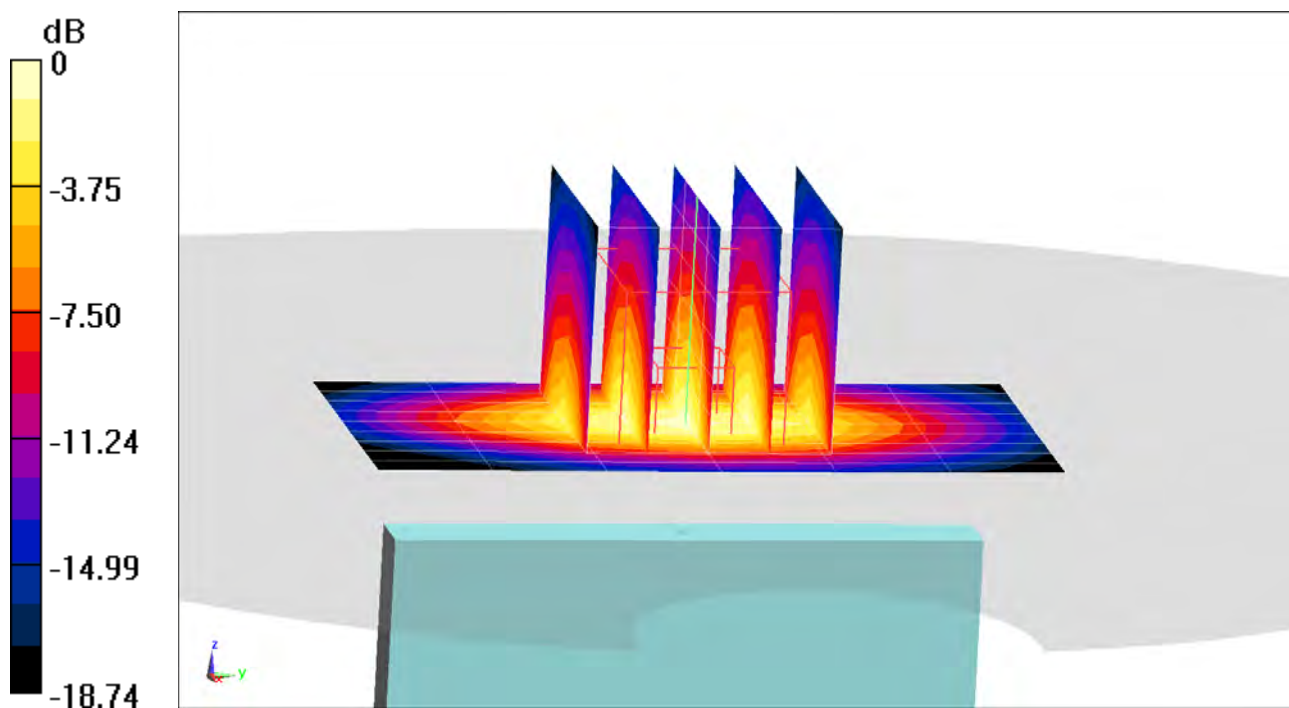
**Area Scan (10x7x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.60 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.708 W/kg**



0 dB = 1.06 W/kg = 0.25 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6$  MHz;  $\sigma = 0.946$  S/m;  $\epsilon_r = 53.413$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 836.6 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 850, Body SAR, Back side, Mid.ch**

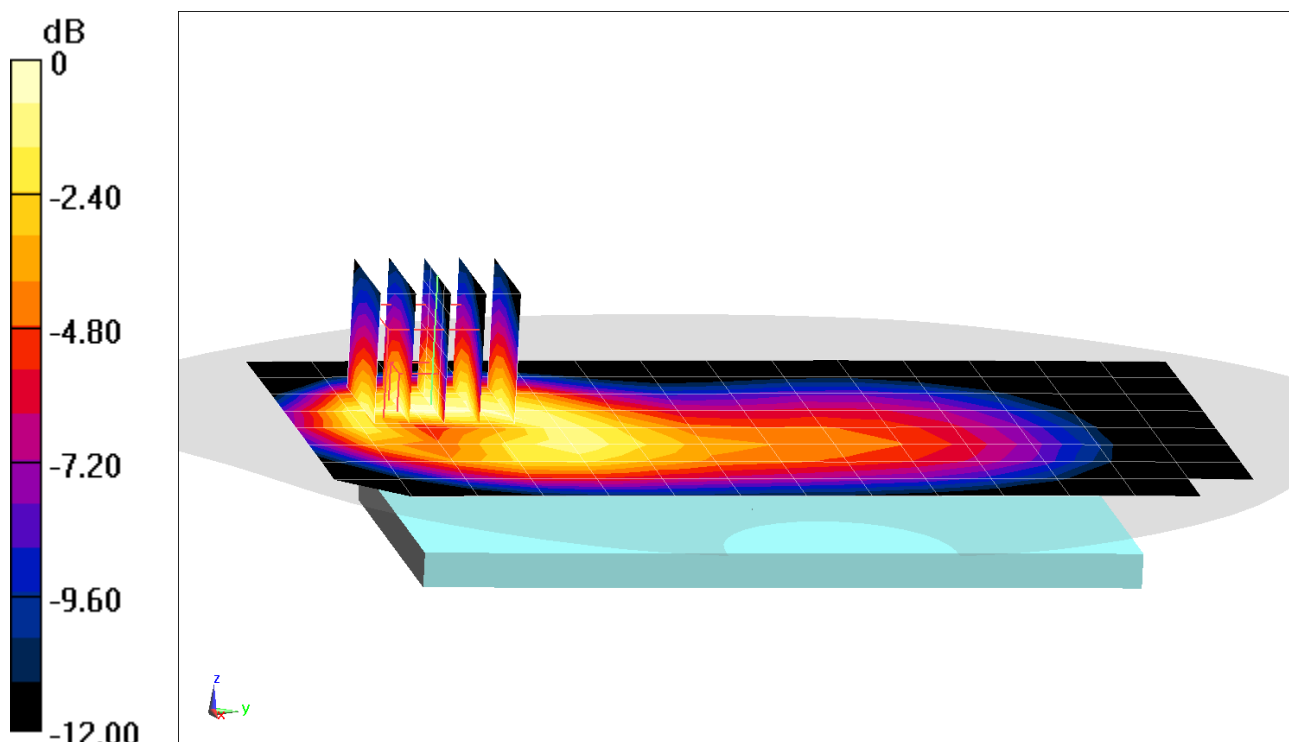
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.10 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.536 W/kg

**SAR(1 g) = 0.324 W/kg**



0 dB = 0.450 W/kg = -3.47 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0120M**

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6$  MHz;  $\sigma = 0.946$  S/m;  $\epsilon_r = 53.413$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 836.6 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 850, Body SAR, Back side, Mid.ch**

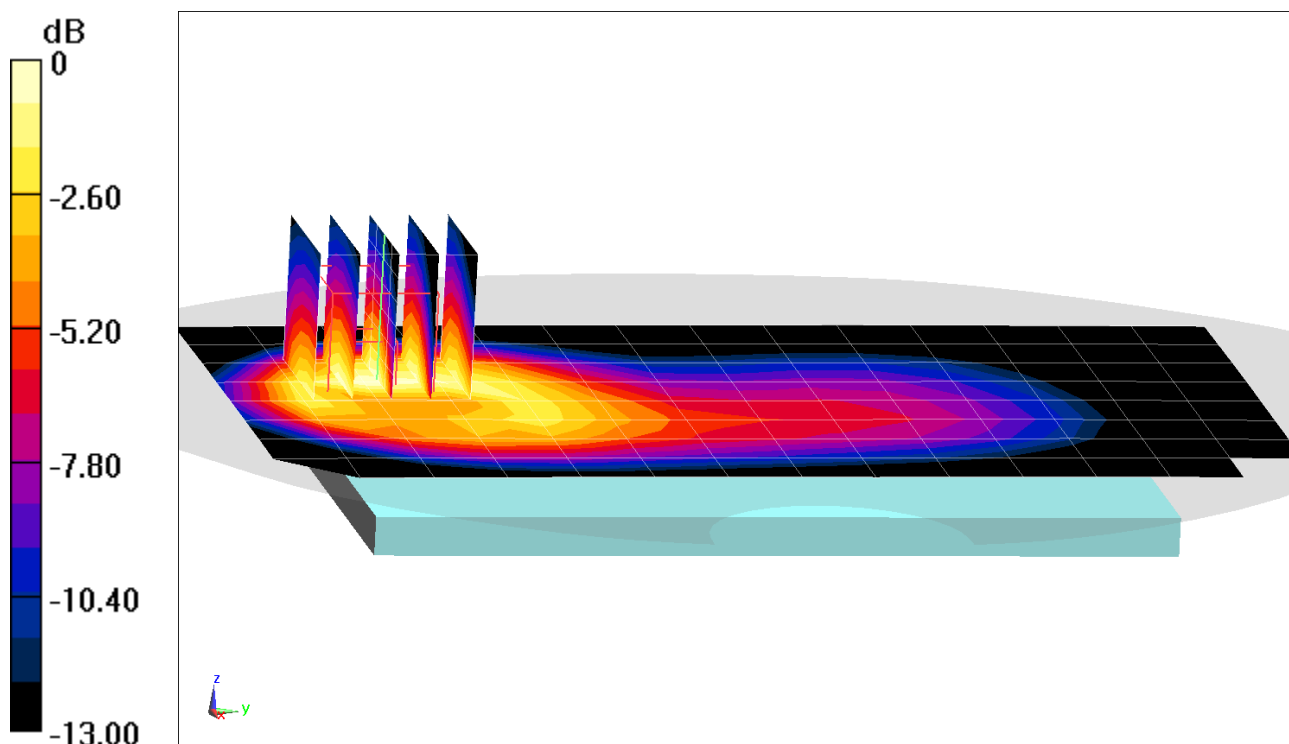
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 26.45 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.628 W/kg**



0 dB = 0.896 W/kg = -0.48 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1732.4$  MHz;  $\sigma = 1.512$  S/m;  $\epsilon_r = 51.937$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/29/2020; Ambient Temp: 23.1°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1732.4 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1750, Body SAR, Back side, Mid.ch**

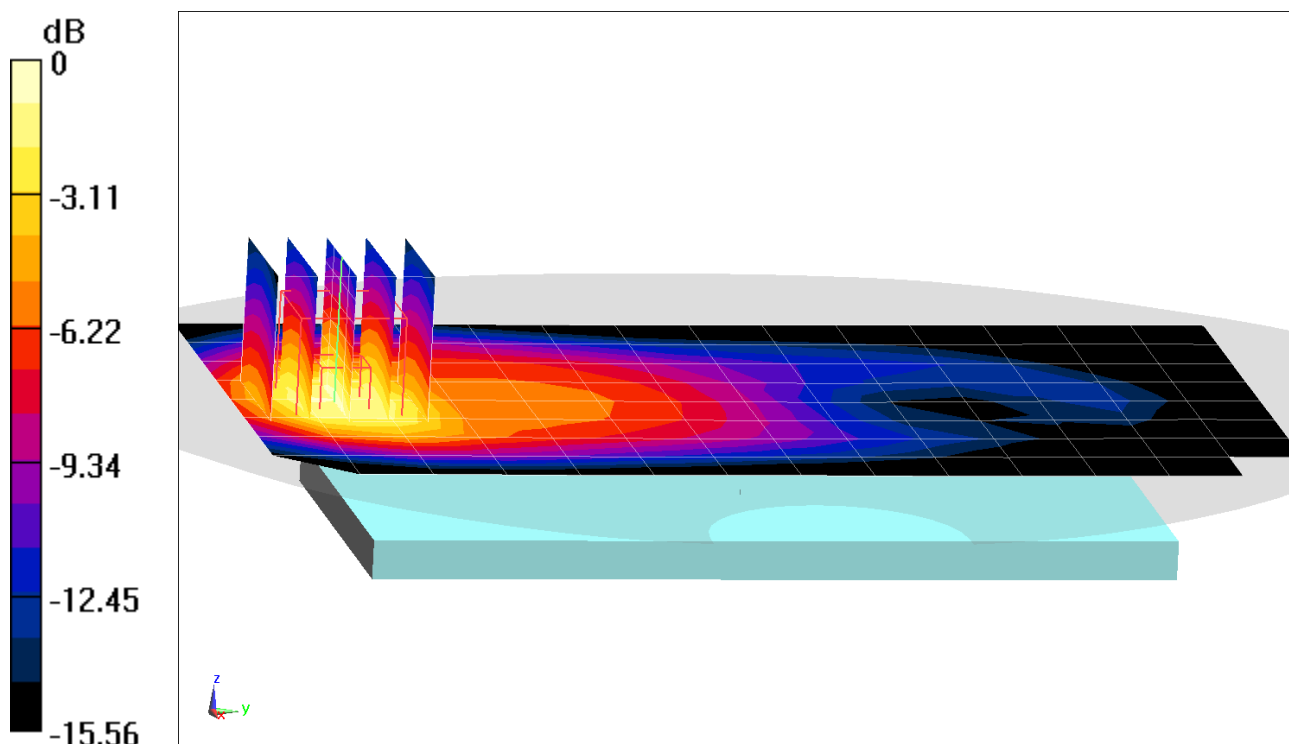
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 22.49 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.690 W/kg**



0 dB = 0.960 W/kg = -0.18 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, UMTS; Frequency: 1732.4 MHz; Duty Cycle: 1:1  
Medium: 1750 Body; Medium parameters used (interpolated):  
 $f = 1732.4$  MHz;  $\sigma = 1.492$  S/m;  $\epsilon_r = 53.181$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/14/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1732.4 MHz; Calibrated: 3/17/2020  
Sensor-Surface: 1.4mm (Mechanical Surface Detection)  
Electronics: DAE4 Sn1368; Calibrated: 3/12/2020  
Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692  
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1750, Body SAR, Bottom Edge, Mid.ch**

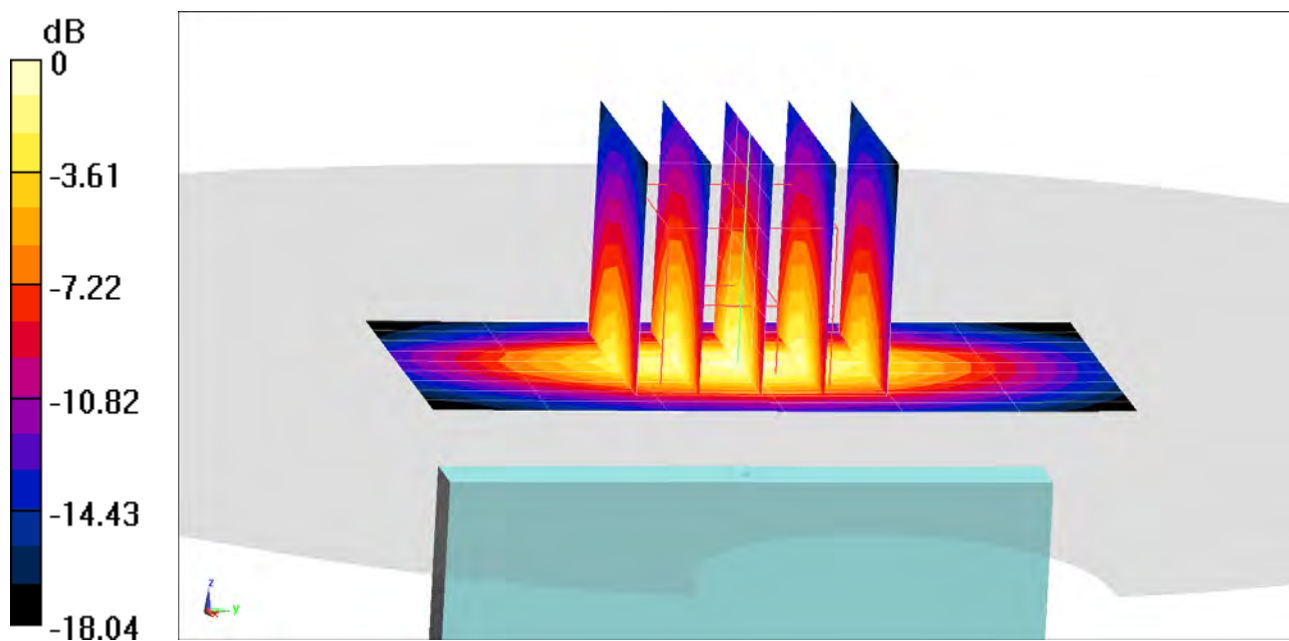
**Area Scan (10x7x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 27.24 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.991 W/kg**



0 dB = 1.46 W/kg = 1.64 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0116M**

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

$f = 1907.6$  MHz;  $\sigma = 1.587$  S/m;  $\epsilon_r = 52.684$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1907.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1900, Body SAR, Back side, High.ch**

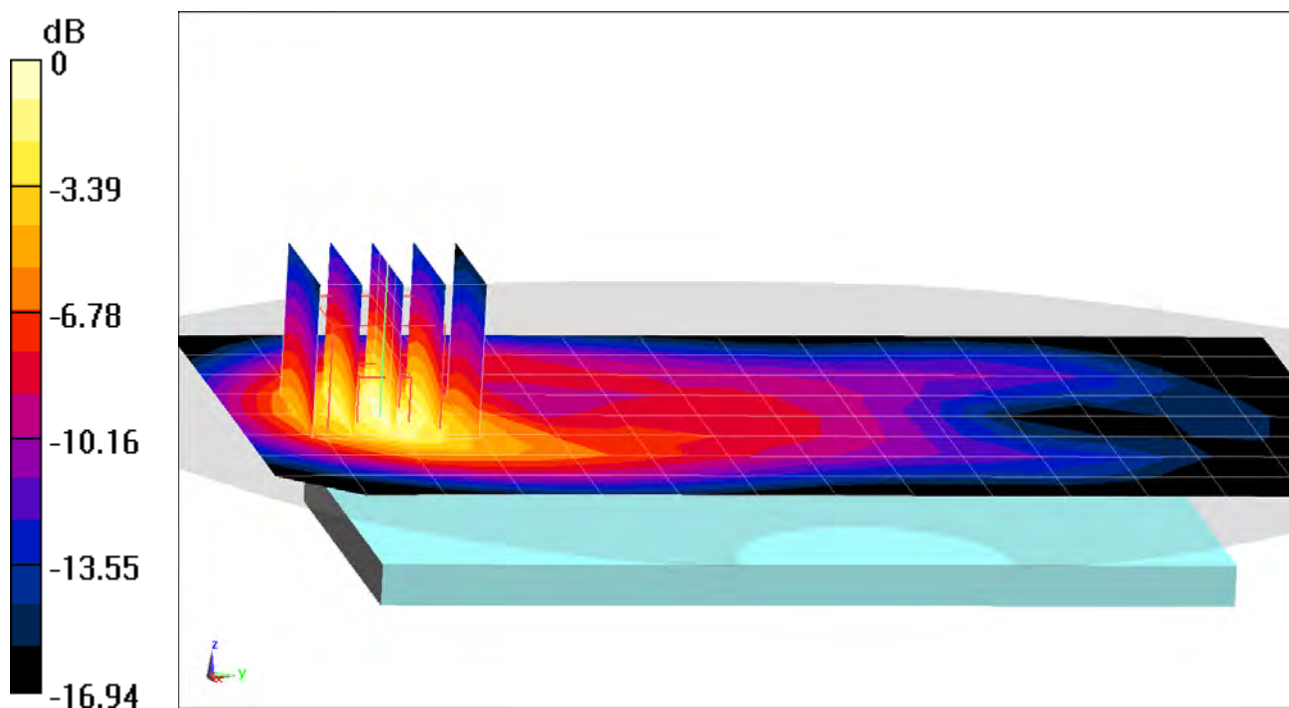
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 22.21 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.710 W/kg**



0 dB = 1.02 W/kg = 0.09 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0116M**

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

$f = 1907.6$  MHz;  $\sigma = 1.587$  S/m;  $\epsilon_r = 52.684$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1907.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1900, Body SAR, Bottom Edge, High.ch**

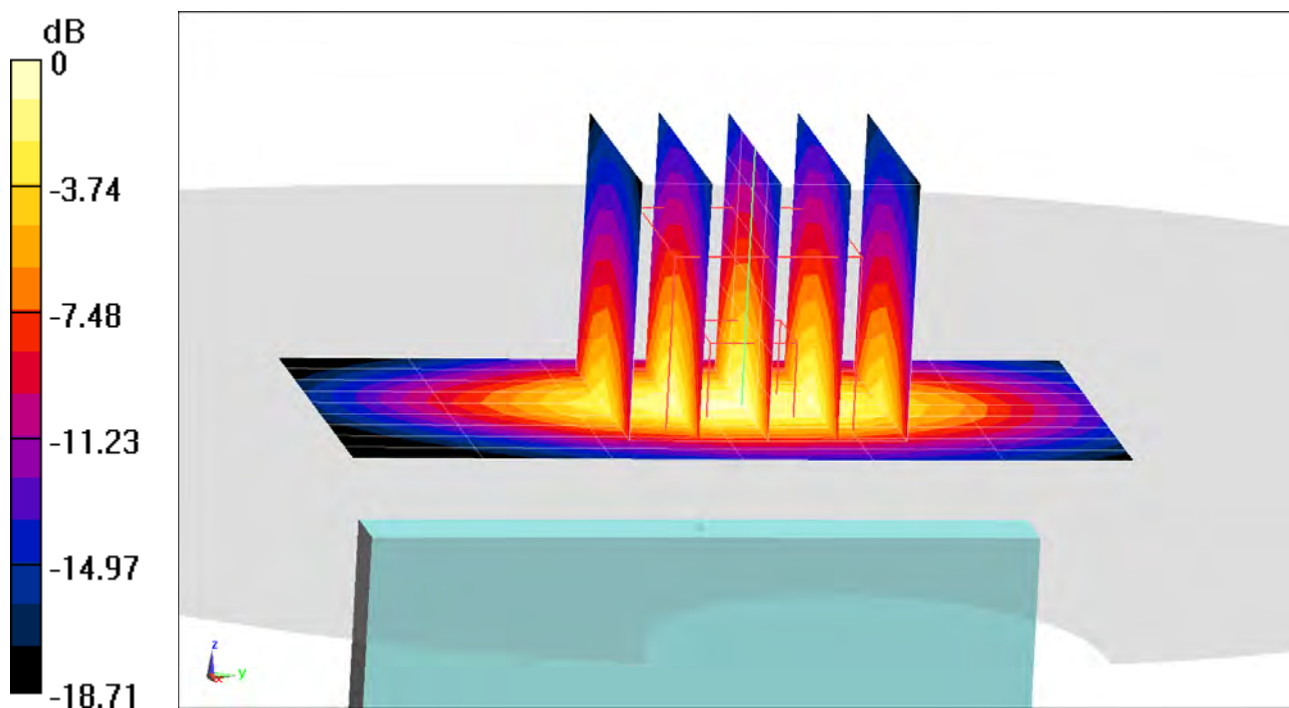
**Area Scan (10x7x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 26.22 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.77 W/kg

**SAR(1 g) = 0.975 W/kg**



0 dB = 1.49 W/kg = 1.73 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 680.5$  MHz;  $\sigma = 0.941$  S/m;  $\epsilon_r = 53.654$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 680.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 71, Body SAR, Back side, Mid.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

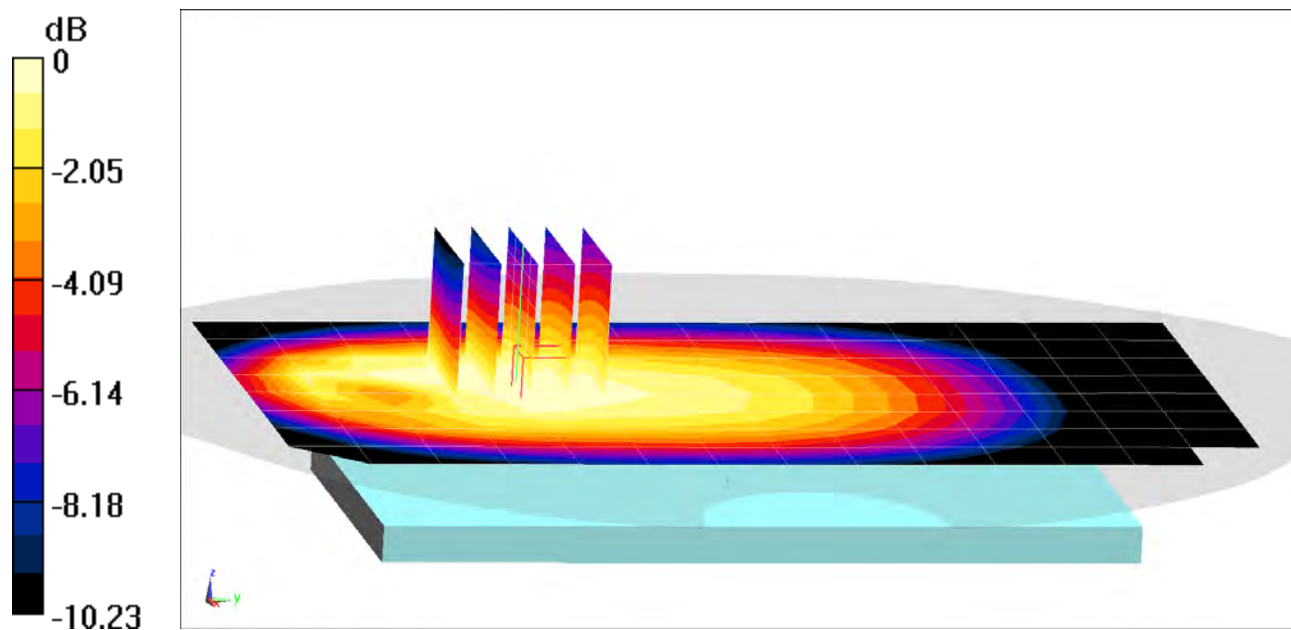
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 15.32 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.282 W/kg

**SAR(1 g) = 0.213 W/kg**



0 dB = 0.257 W/kg = -5.90 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 680.5 \text{ MHz}$ ;  $\sigma = 0.941 \text{ S/m}$ ;  $\epsilon_r = 53.654$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 680.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 71, Body SAR, Back side, Mid.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

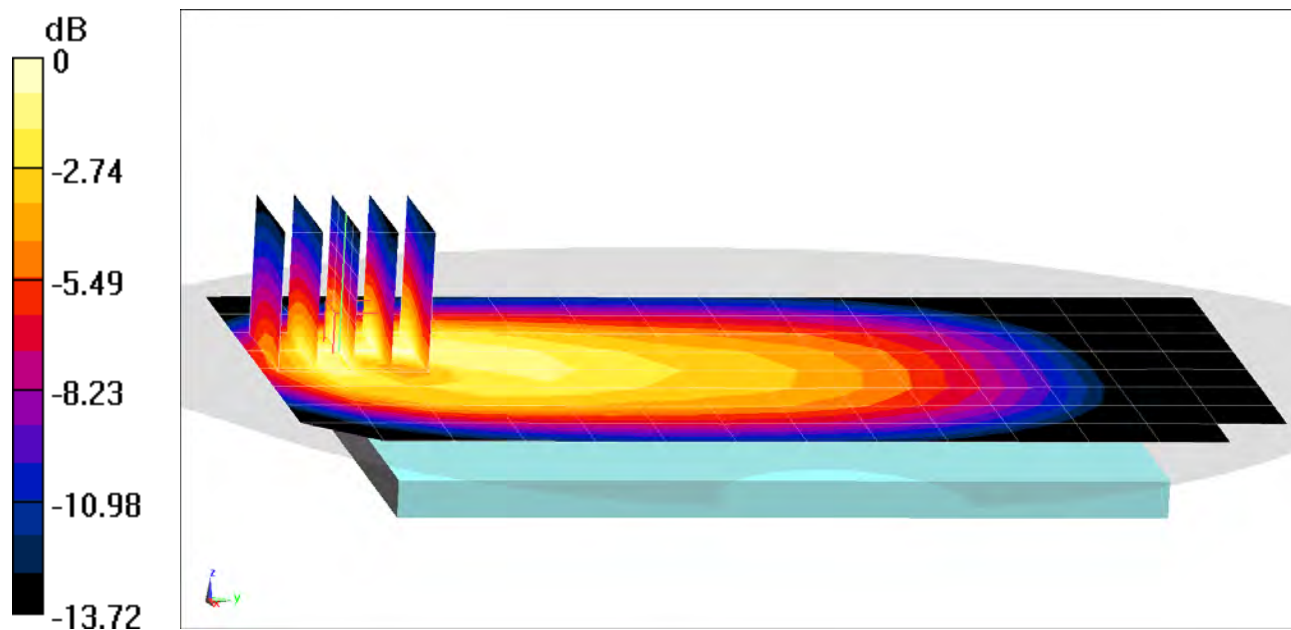
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.89 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.602 W/kg

**SAR(1 g) = 0.333 W/kg**



0 dB = 0.499 W/kg = -3.02 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5$  MHz;  $\sigma = 0.951$  S/m;  $\epsilon_r = 53.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

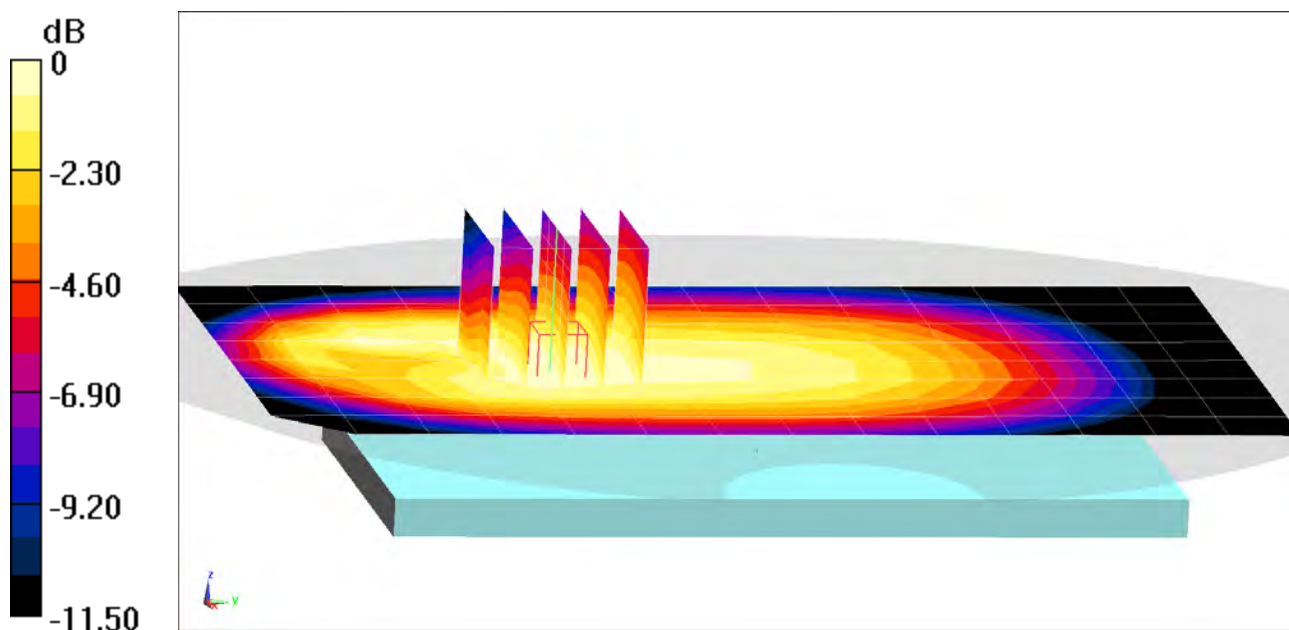
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 15.56 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.286 W/kg

**SAR(1 g) = 0.220 W/kg**



0 dB = 0.264 W/kg = -5.78 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5$  MHz;  $\sigma = 0.951$  S/m;  $\epsilon_r = 53.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

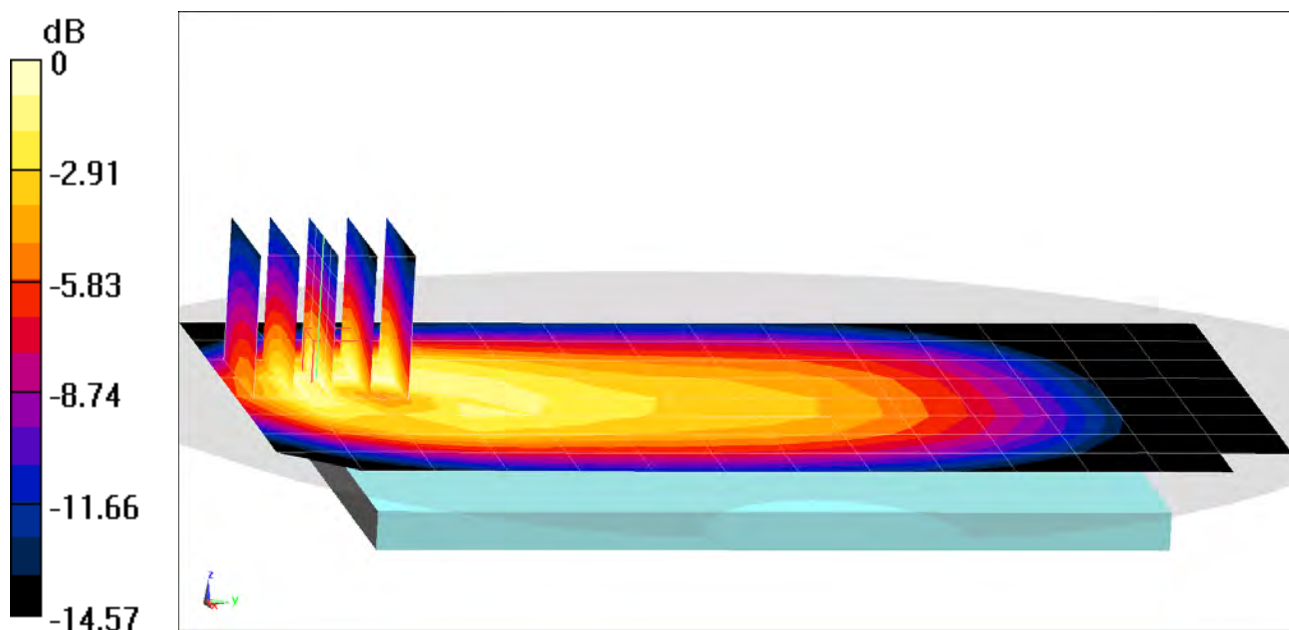
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 20.57 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.661 W/kg

**SAR(1 g) = 0.368 W/kg**



0 dB = 0.547 W/kg = -2.62 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.979 \text{ S/m}$ ;  $\epsilon_r = 53.36$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 782 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

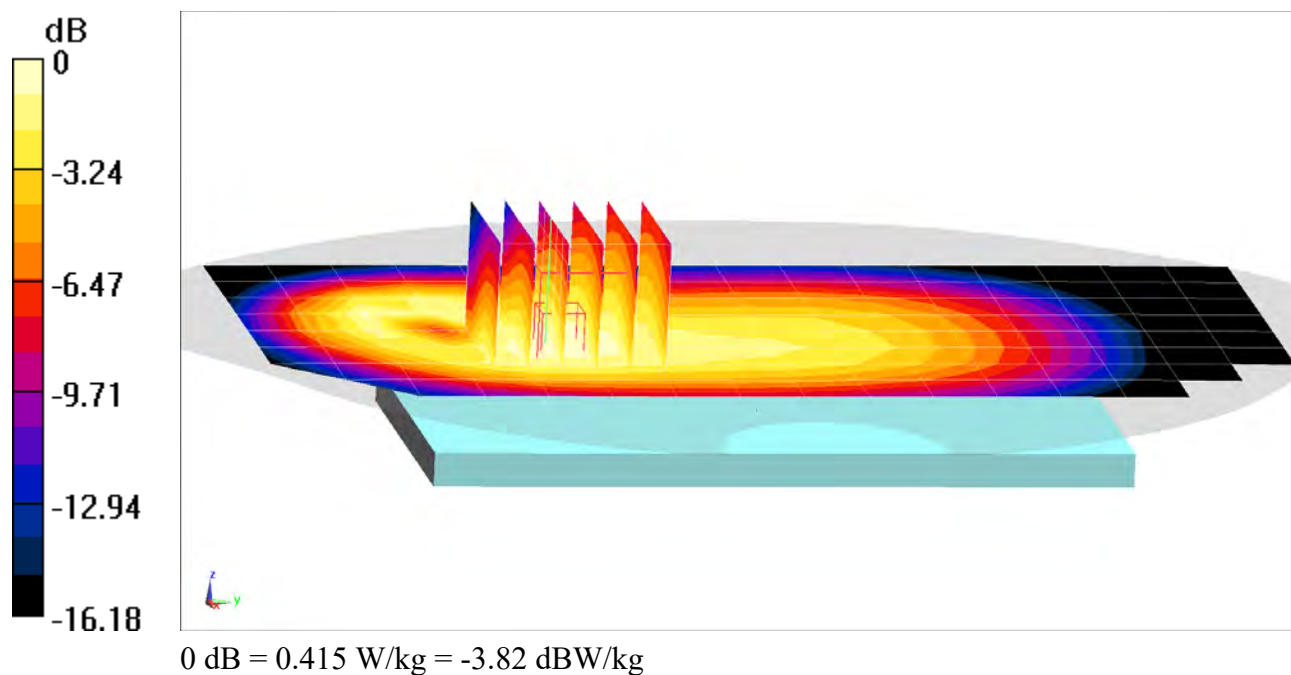
**Area Scan (9x17x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.93 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.457 W/kg

**SAR(1 g) = 0.335 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 782 \text{ MHz}$ ;  $\sigma = 0.969 \text{ S/m}$ ;  $\epsilon_r = 53.508$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/27/2020; Ambient Temp: 21.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 782 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset**

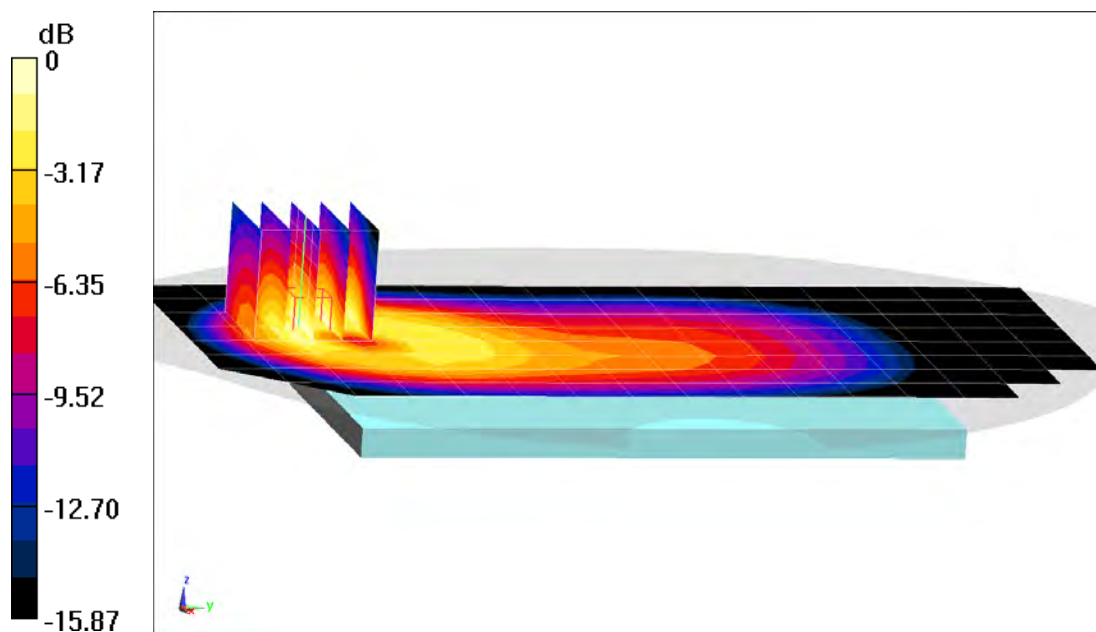
**Area Scan (9x17x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 27.10 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.648 W/kg**



0 dB = 0.925 W/kg = -0.34 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.983 \text{ S/m}$ ;  $\epsilon_r = 53.333$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 793 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 14, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

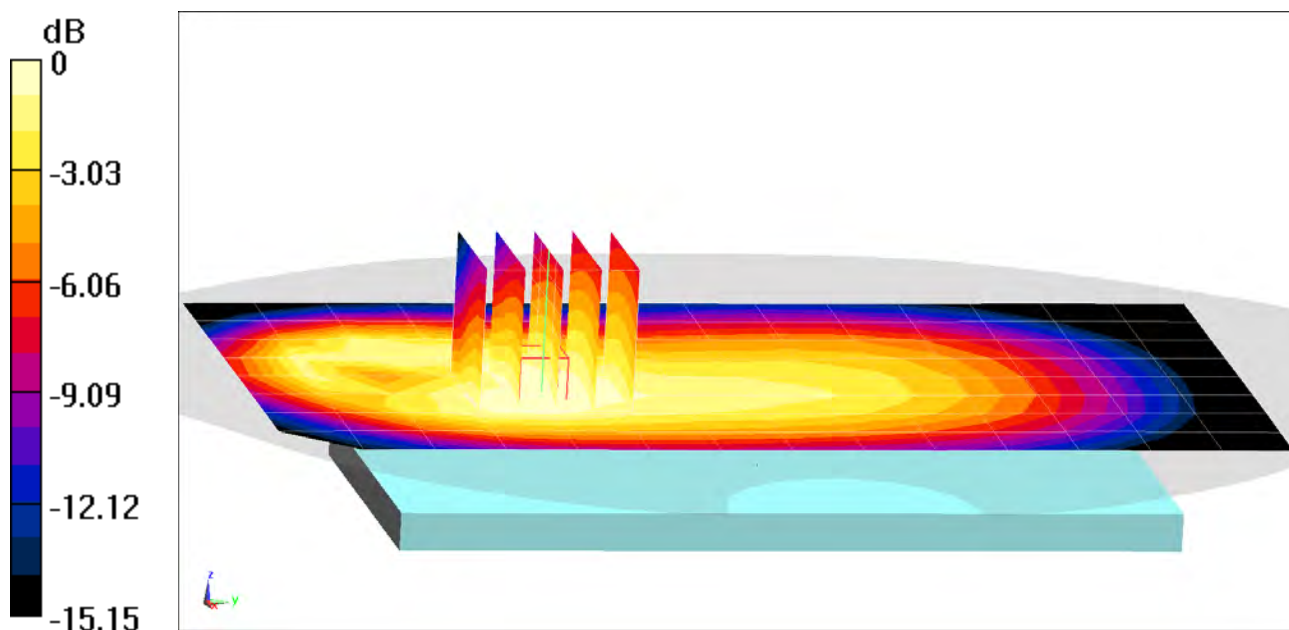
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 20.38 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.483 W/kg

**SAR(1 g) = 0.361 W/kg**



0 dB = 0.439 W/kg = -3.58 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0122M**

Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 793 \text{ MHz}$ ;  $\sigma = 0.983 \text{ S/m}$ ;  $\epsilon_r = 53.333$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 793 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 14, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

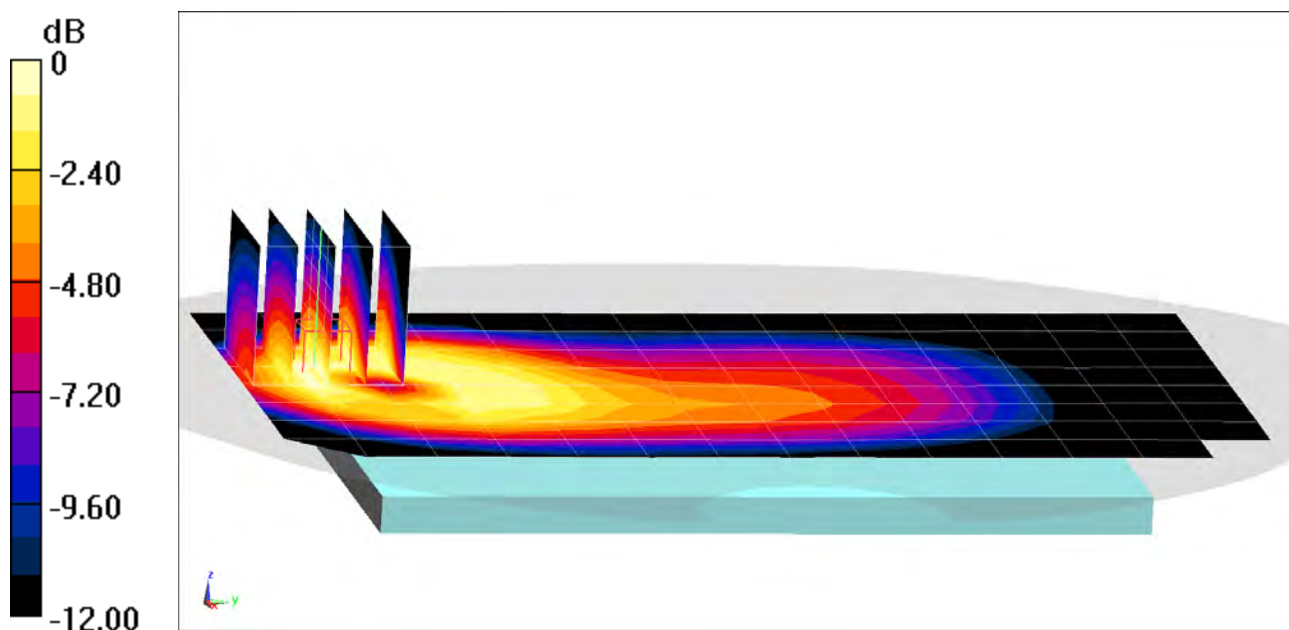
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.45 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.975 W/kg

**SAR(1 g) = 0.574 W/kg**



0 dB = 0.828 W/kg = -0.82 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 831.5$  MHz;  $\sigma = 0.944$  S/m;  $\epsilon_r = 52.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/08/2020; Ambient Temp: 22.6°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 831.5 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.), Body SAR, Back side, Mid.ch**  
**15 MHz Bandwidth, QPSK, 1 RB, 36 RB Offset**

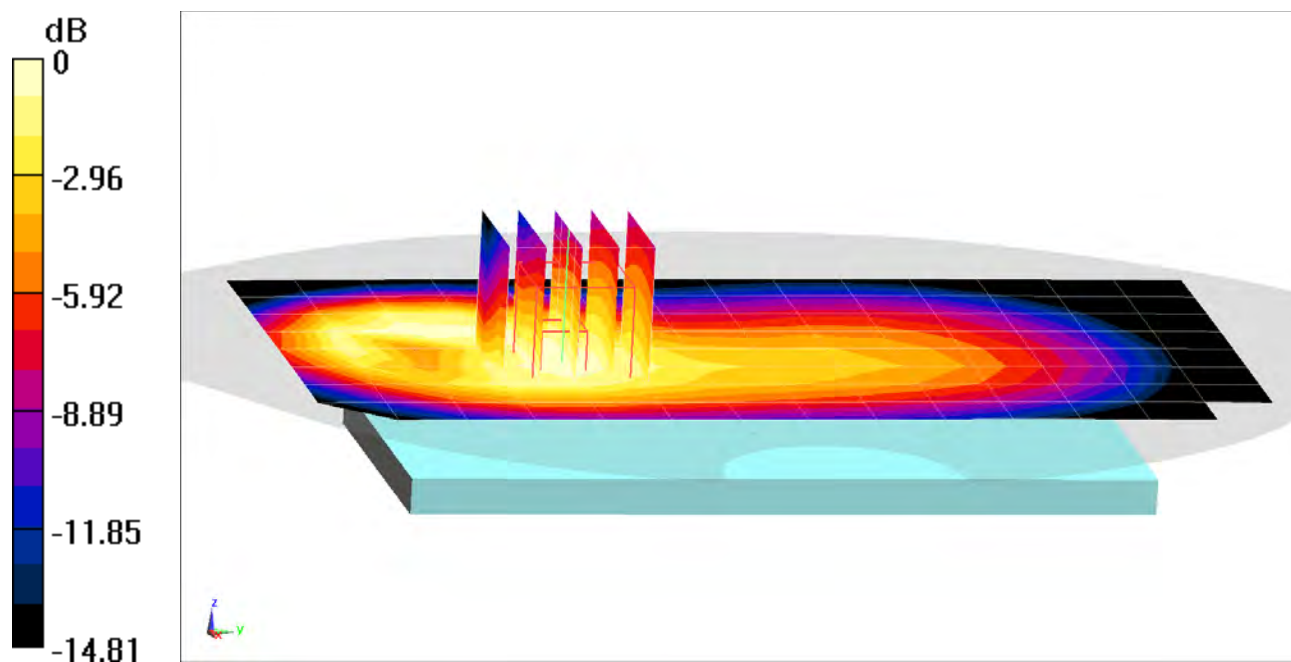
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 18.10 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.422 W/kg

**SAR(1 g) = 0.295 W/kg**



0 dB = 0.373 W/kg = -4.28 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0061M**

Communication System: UID 0, LTE Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 831.5$  MHz;  $\sigma = 0.944$  S/m;  $\epsilon_r = 52.801$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/08/2020; Ambient Temp: 22.6°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 831.5 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.), Body SAR, Back side, Mid.ch**

**15 MHz Bandwidth, QPSK, 1 RB, 36 RB Offset**

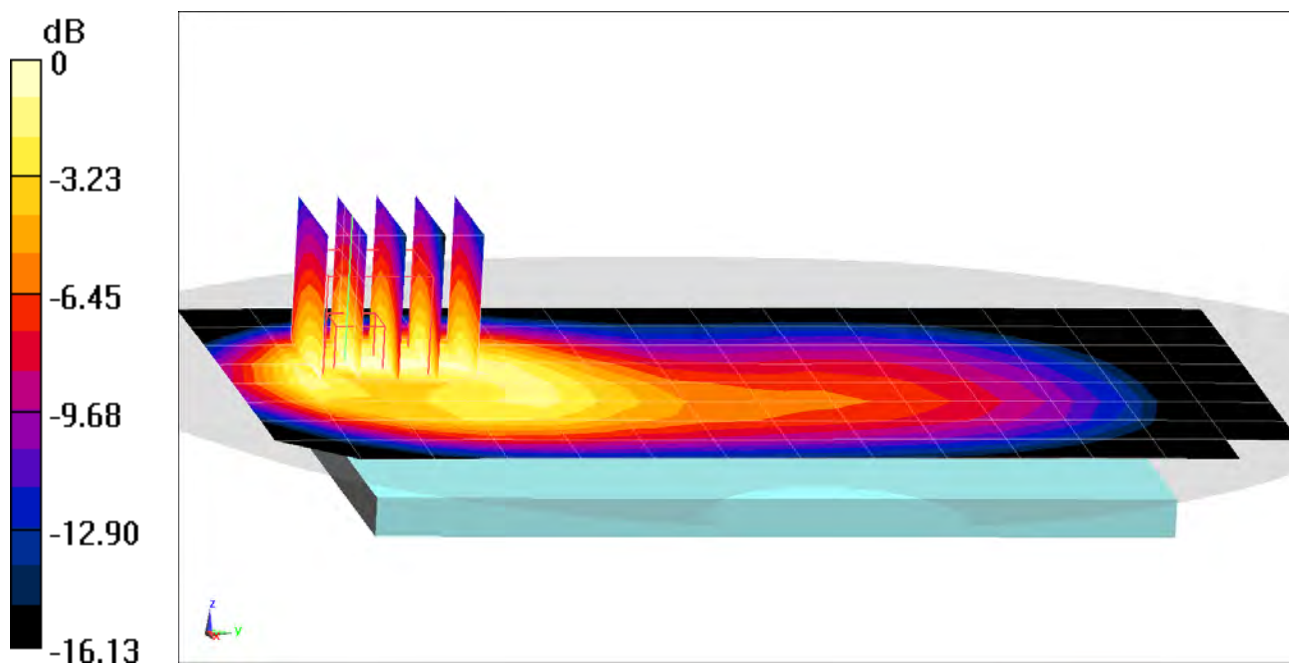
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 25.88 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.611 W/kg**



0 dB = 0.852 W/kg = -0.70 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0086M**

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.5$  MHz;  $\sigma = 0.967$  S/m;  $\epsilon_r = 53.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/11/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 836.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), ULCA, Body SAR, Back side**

**PCC: 10 MHz Bandwidth, Ch. 20525, QPSK, 1 RB, 0 RB Offset**

**SCC: 5 MHz Bandwidth, Ch. 20453, QPSK, 1 RB, 24 RB Offset**

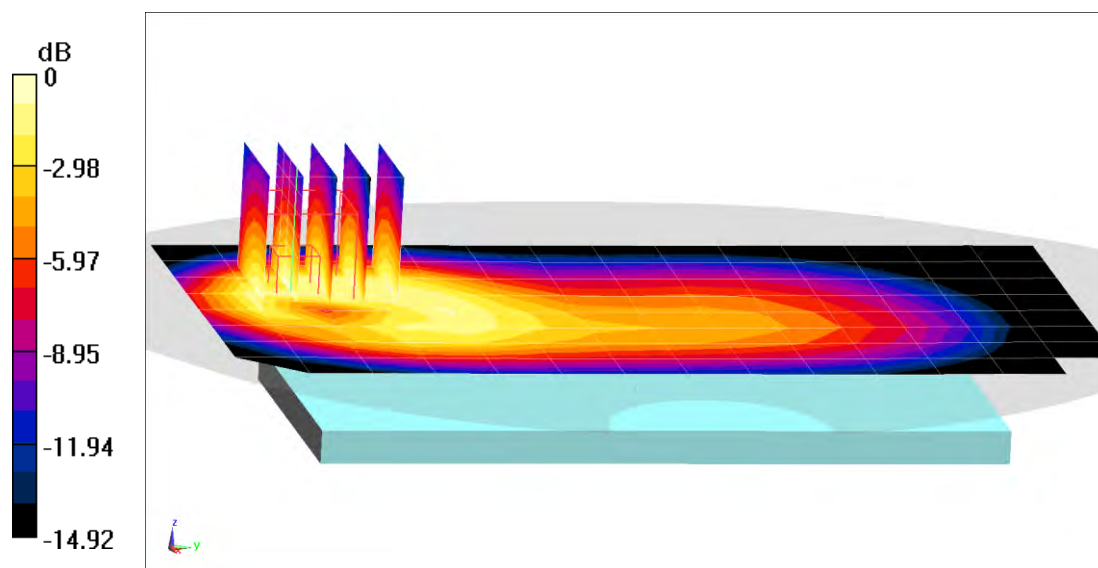
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.49 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.572 W/kg

**SAR(1 g) = 0.350 W/kg**



0 dB = 0.480 W/kg = -3.19 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0086M**

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.5$  MHz;  $\sigma = 0.967$  S/m;  $\epsilon_r = 53.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/11/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 836.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), ULCA, Body SAR, Back side**

**PCC: 10 MHz Bandwidth, Ch. 20525, QPSK, 1 RB, 0 RB Offset**

**SCC: 5 MHz Bandwidth, Ch. 20453, QPSK, 1 RB, 24 RB Offset**

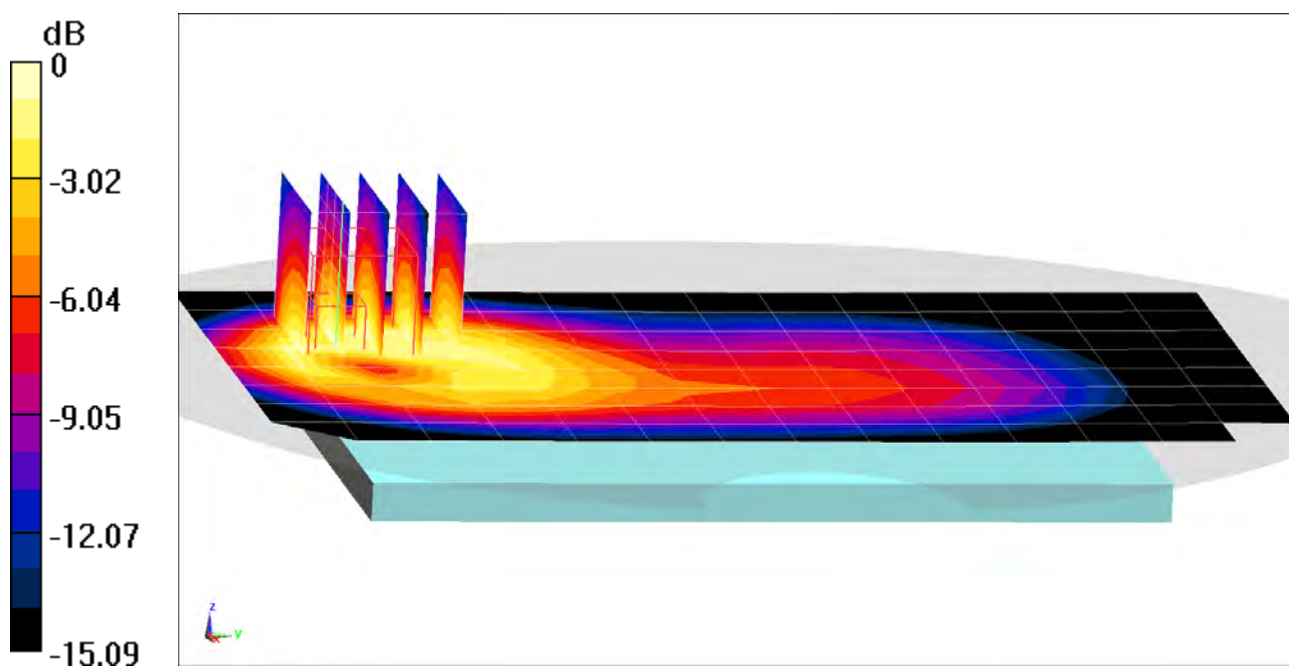
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 25.71 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.613 W/kg**



0 dB = 0.865 W/kg = -0.63 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0071M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745 \text{ MHz}$ ;  $\sigma = 1.518 \text{ S/m}$ ;  $\epsilon_r = 52.107$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/03/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1745 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), CA\_66C ULCA, Body SAR, Back side**

**PCC: 20 Bandwidth, Ch. 132322, QPSK, 1 RB, 0 RB Offset**

**SCC: 20 Bandwidth, Ch. 132124, QPSK, 1 RB, 99 RB Offset**

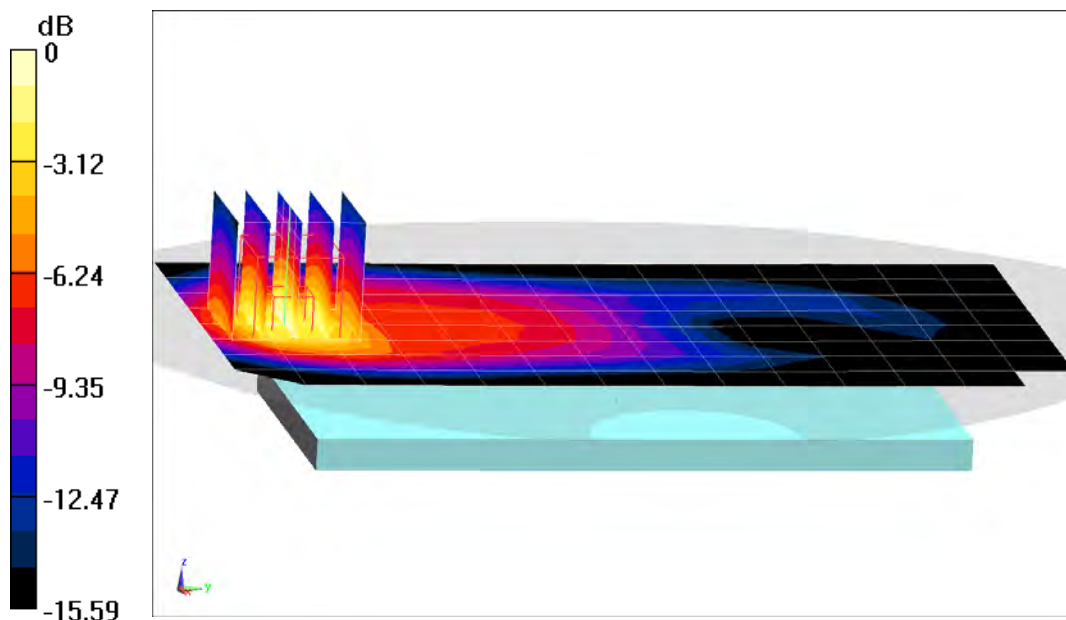
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.77 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.922 W/kg**



0 dB = 1.26 W/kg = 1.00 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0071M**

Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1770$  MHz;  $\sigma = 1.519$  S/m;  $\epsilon_r = 52.547$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.1°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1770 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), CA\_66C ULCA, Body SAR, Bottom Edge**

**PCC: 20 MHz Bandwidth, Ch. 132572, QPSK, 1 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 132374, QPSK, 1 RB, 99 RB Offset**

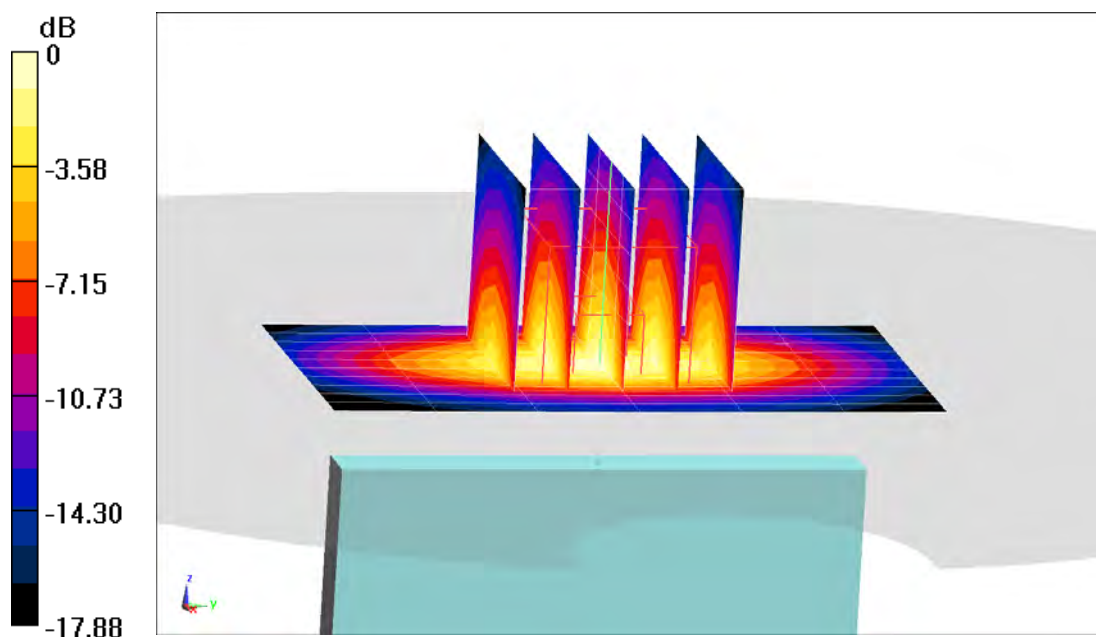
**Area Scan (11x7x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 27.58 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 1.02 W/kg**



0 dB = 1.50 W/kg = 1.76 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905 \text{ MHz}$ ;  $\sigma = 1.578 \text{ S/m}$ ;  $\epsilon_r = 55.16$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/03/2020; Ambient Temp: 21.1°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Body SAR, Back side, High.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset**

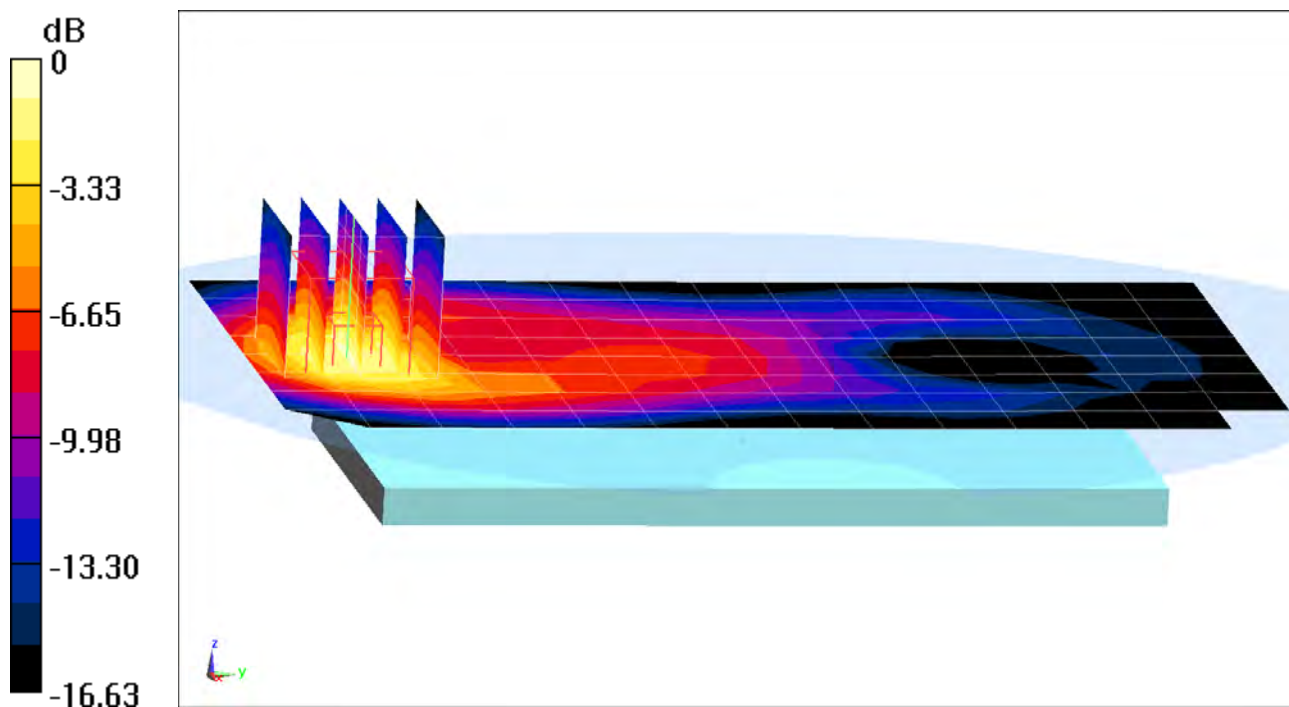
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 22.03 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.684 W/kg**



0 dB = 0.974 W/kg = -0.11 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905$  MHz;  $\sigma = 1.565$  S/m;  $\epsilon_r = 52.998$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/26/2020; Ambient Temp: 24.1°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Body SAR, Bottom Edge, High.ch**  
**20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

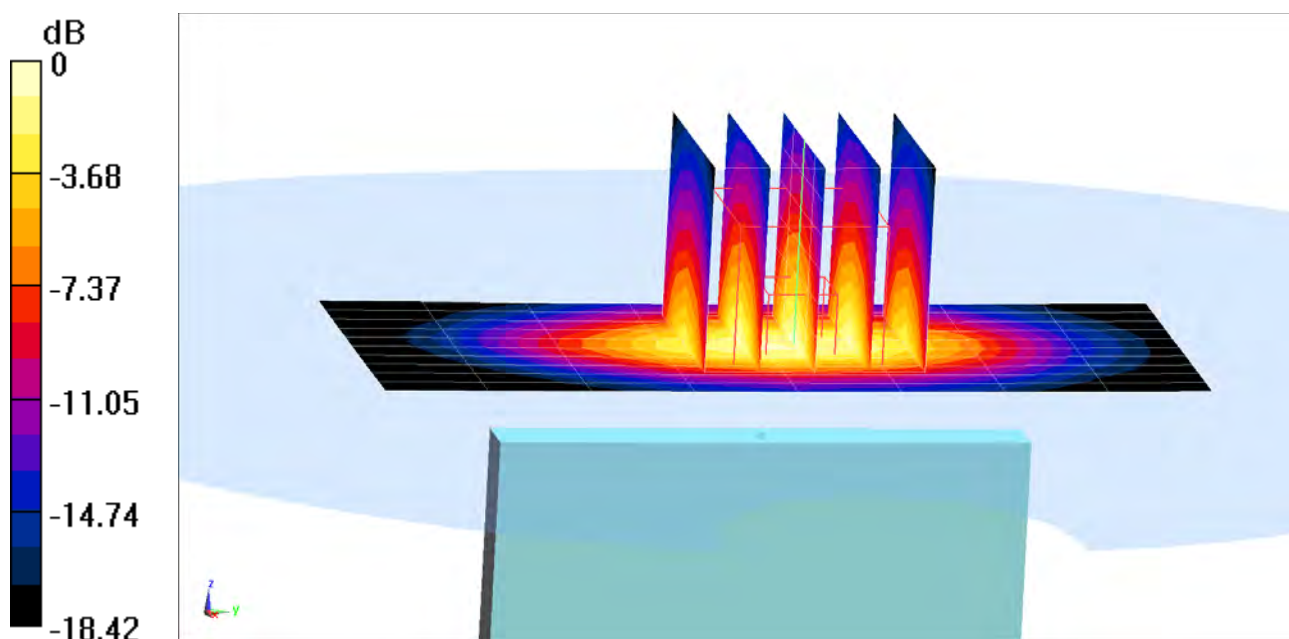
**Area Scan (11x9x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 27.97 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 1.09 W/kg**



0 dB = 1.65 W/kg = 2.17 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2310$  MHz;  $\sigma = 1.857$  S/m;  $\epsilon_r = 53.097$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/04/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7547; ConvF(7.47, 7.47, 7.47) @ 2310 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 30, Body SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

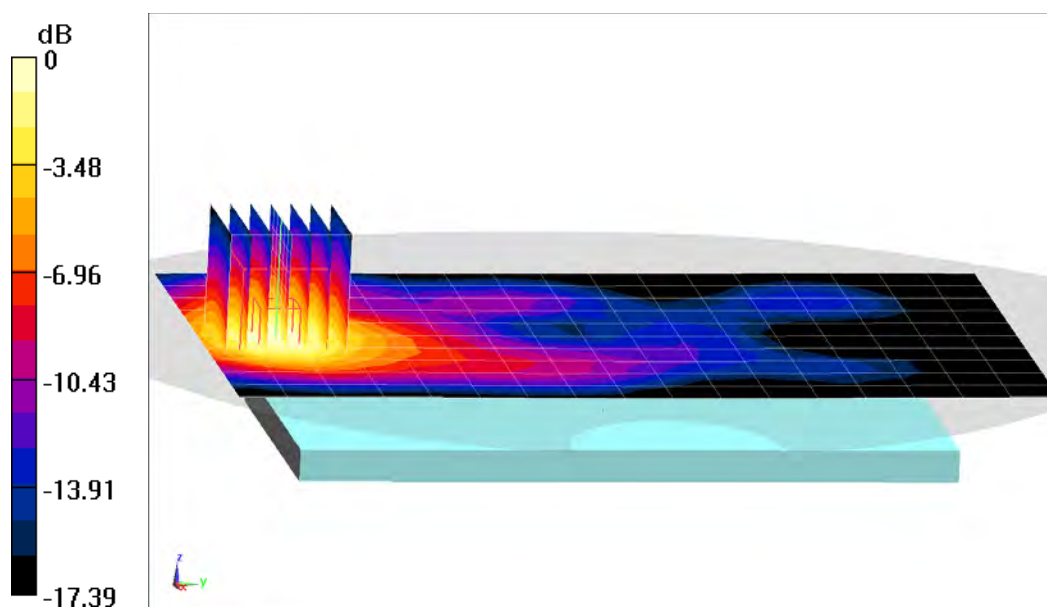
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 16.95 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.851 W/kg

**SAR(1 g) = 0.481 W/kg**



0 dB = 0.716 W/kg = -1.45 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2310$  MHz;  $\sigma = 1.857$  S/m;  $\epsilon_r = 53.097$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/04/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7547; ConvF(7.47, 7.47, 7.47) @ 2310 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 30, Body SAR, Bottom Edge, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

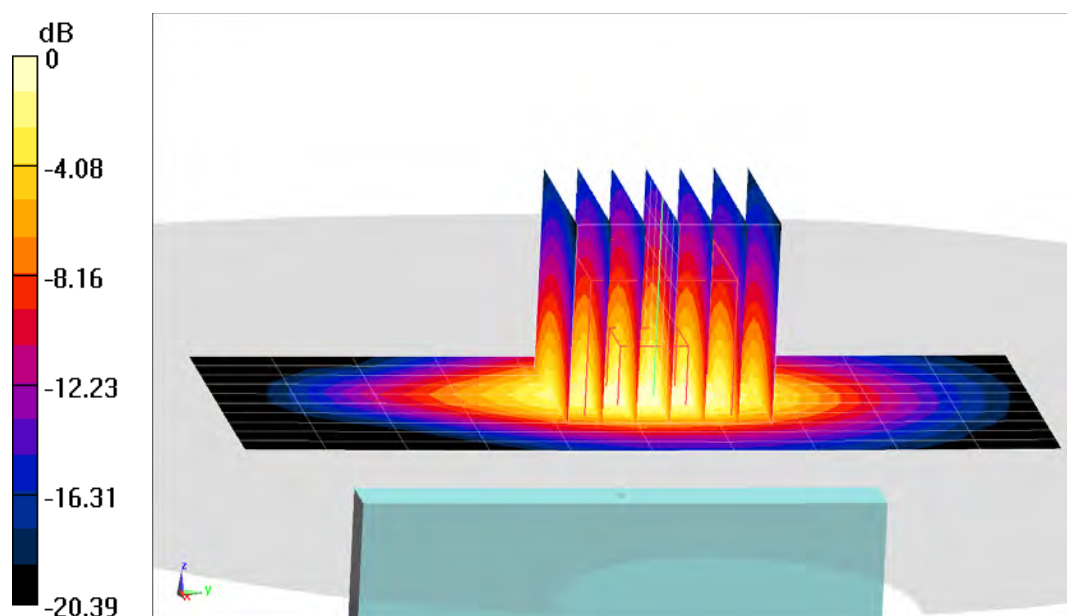
**Area Scan (11x11x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 23.65 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.911 W/kg**



0 dB = 1.44 W/kg = 1.58 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0090M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2510$  MHz;  $\sigma = 2.118$  S/m;  $\epsilon_r = 51.421$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/13/2020; Ambient Temp: 24.0°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2510 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7, Body SAR, Back side, Low.ch**  
**20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset**

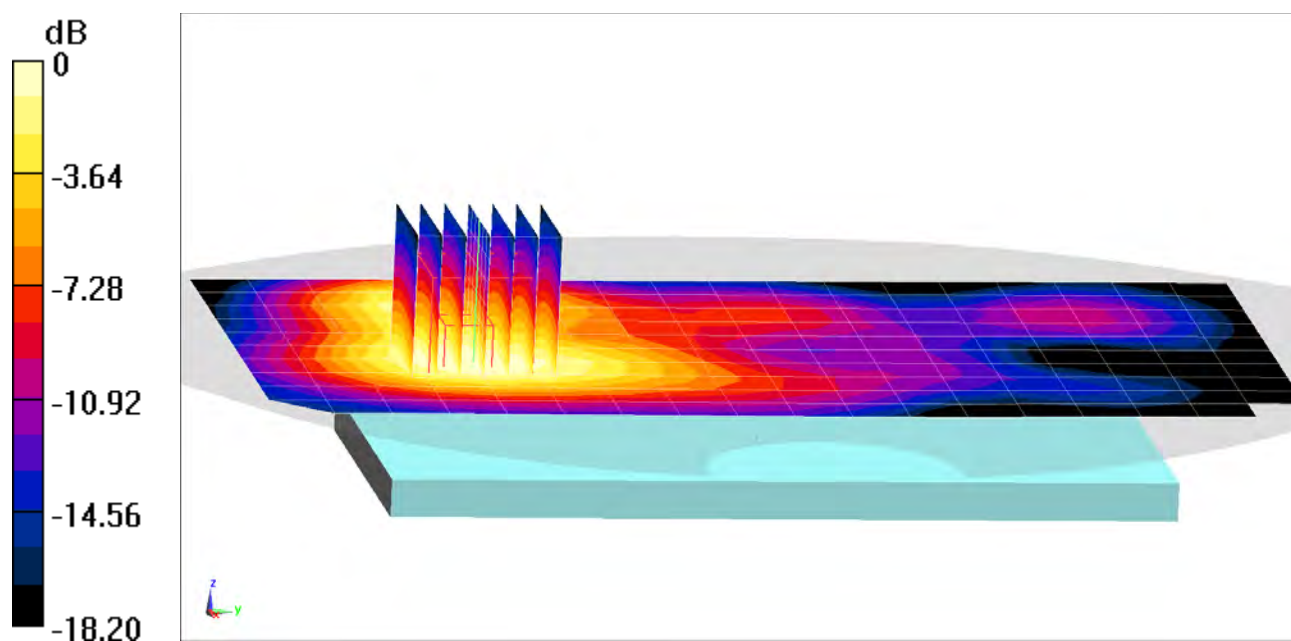
**Area Scan (11x19x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 14.03 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.697 W/kg

**SAR(1 g) = 0.387 W/kg**



0 dB = 0.576 W/kg = -2.40 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0090M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2510$  MHz;  $\sigma = 2.118$  S/m;  $\epsilon_r = 51.421$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2020; Ambient Temp: 24.0°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2510 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7, Body SAR, Bottom Edge, Low.ch**  
**20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset**

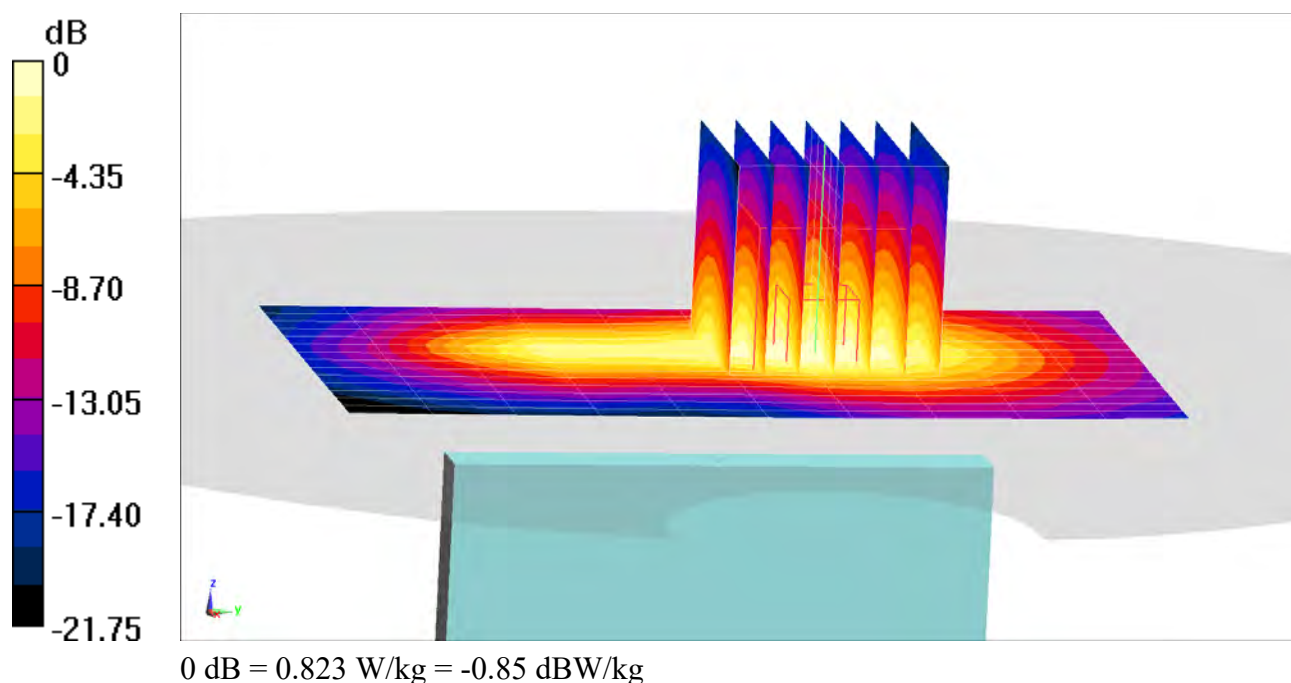
**Area Scan (15x11x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 16.54 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.520 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1184M**

Communication System: UID 0, LTE Band 48; Frequency: 3603.3 MHz; Duty Cycle: 1:1.58

Medium: 3600 Body; Medium parameters used (interpolated):

$f = 3603.3$  MHz;  $\sigma = 3.496$  S/m;  $\epsilon_r = 49.44$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/03/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7488; ConvF(6.85, 6.85, 6.85) @ 3603.3 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 48, ULCA, Body SAR, Back side**

**PCC: 20 MHz Bandwidth, Ch. 55773, QPSK, 1 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 55575, QPSK, 1 RB, 99 RB Offset**

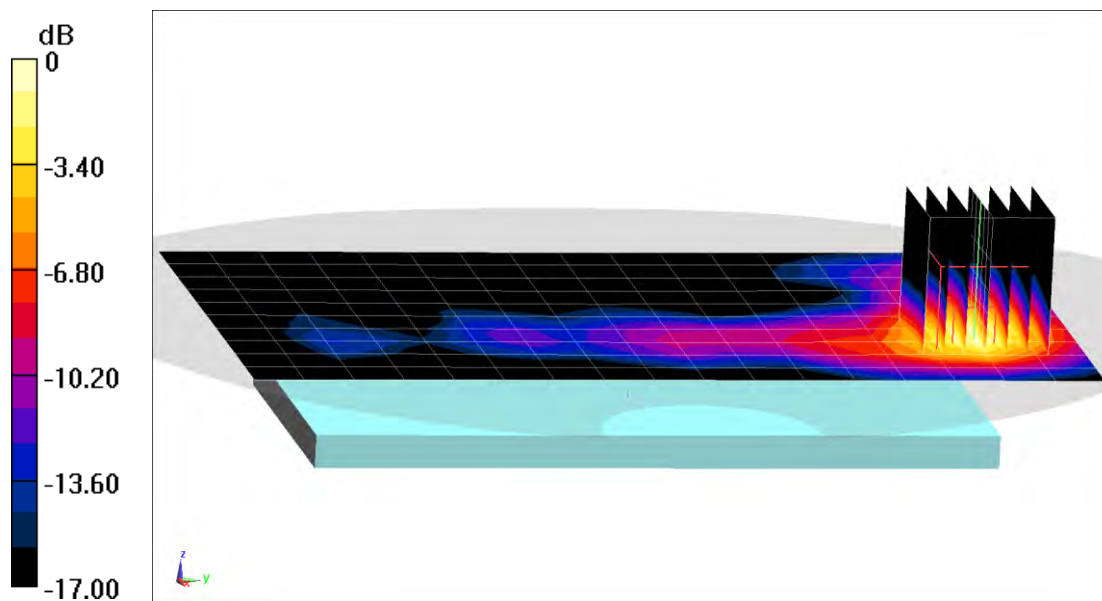
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 10.64 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.823 W/kg

**SAR(1 g) = 0.348 W/kg**



0 dB = 0.627 W/kg = -2.03 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1184M**

Communication System: UID 0, LTE Band 48; Frequency: 3690 MHz; Duty Cycle: 1:1.58

Medium: 3600 Body; Medium parameters used:

$f = 3690 \text{ MHz}$ ;  $\sigma = 3.587 \text{ S/m}$ ;  $\epsilon_r = 49.254$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/03/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7488; ConvF(6.85, 6.85, 6.85) @ 3690 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 48, ULCA, Body SAR, Top Edge**

**PCC: 20 MHz Bandwidth, Ch. 56640, QPSK, 1 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 56442, QPSK, 1 RB, 99 RB Offset**

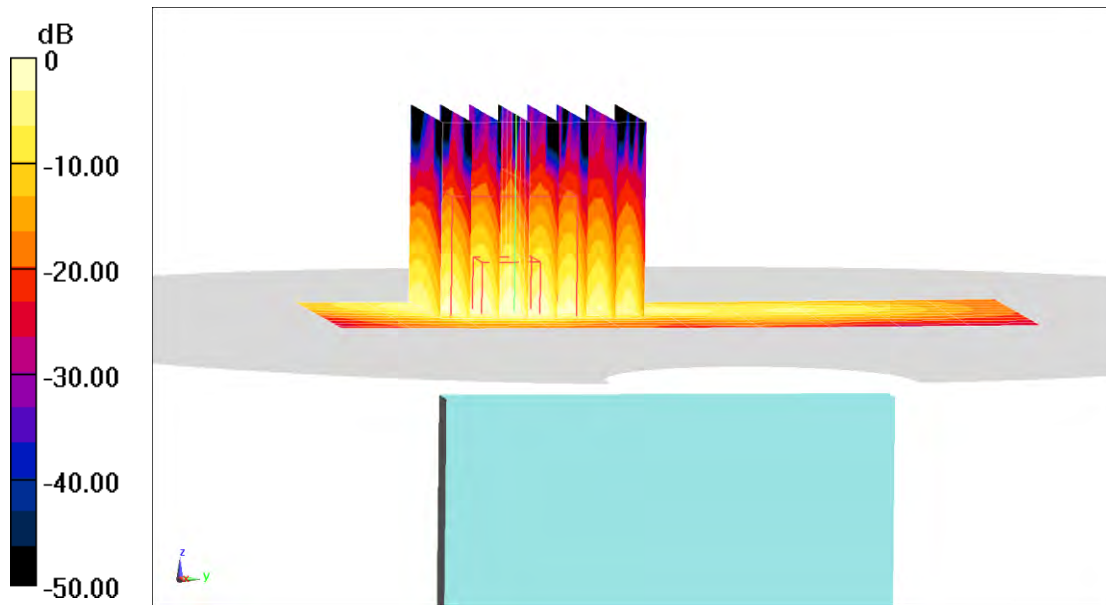
**Area Scan (11x11x1):** Measurement grid: dx=5mm, dy=12mm

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 15.72 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.10 W/kg

**SAR(1 g) = 0.806 W/kg**



0 dB = 1.51 W/kg = 1.79 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0085M**

Communication System: UID 0, \_LTE Band 41 (Class 2); Frequency: 2506 MHz; Duty Cycle: 1:2.31

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2506$  MHz;  $\sigma = 2.077$  S/m;  $\epsilon_r = 52.478$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/18/2020; Ambient Temp: 22.2°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2506 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41 PC2, ULCA, Body SAR, Back side**

**PCC: 20 MHz Bandwidth, Ch. 39750, QPSK, 1 RB, 99 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 39948, QPSK, 1 RB, 0 RB Offset**

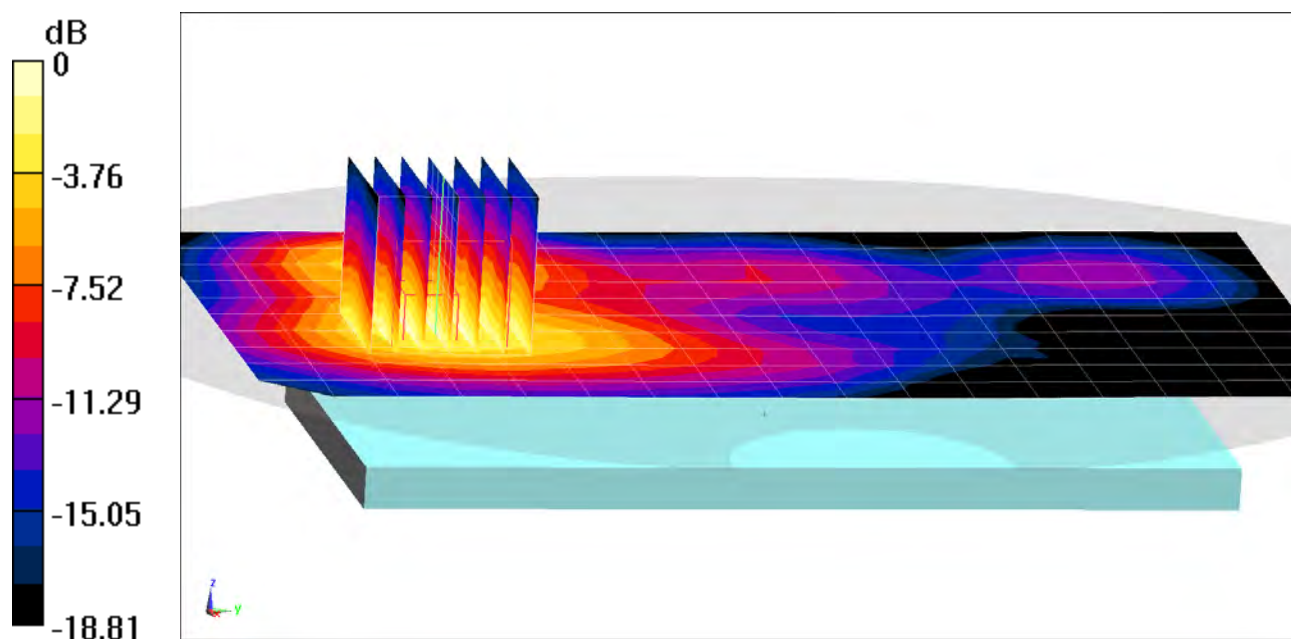
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 12.64 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.557 W/kg

**SAR(1 g) = 0.291 W/kg**



0 dB = 0.461 W/kg = -3.36 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0085M**

Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2506$  MHz;  $\sigma = 2.098$  S/m;  $\epsilon_r = 50.859$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/20/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2506 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41 PC3, ULCA, Body SAR, Bottom Edge**

**PCC: 20 MHz Bandwidth, Ch. 39750, QPSK, 1 RB, 99 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 39948, QPSK, 1 RB, 0 RB Offset**

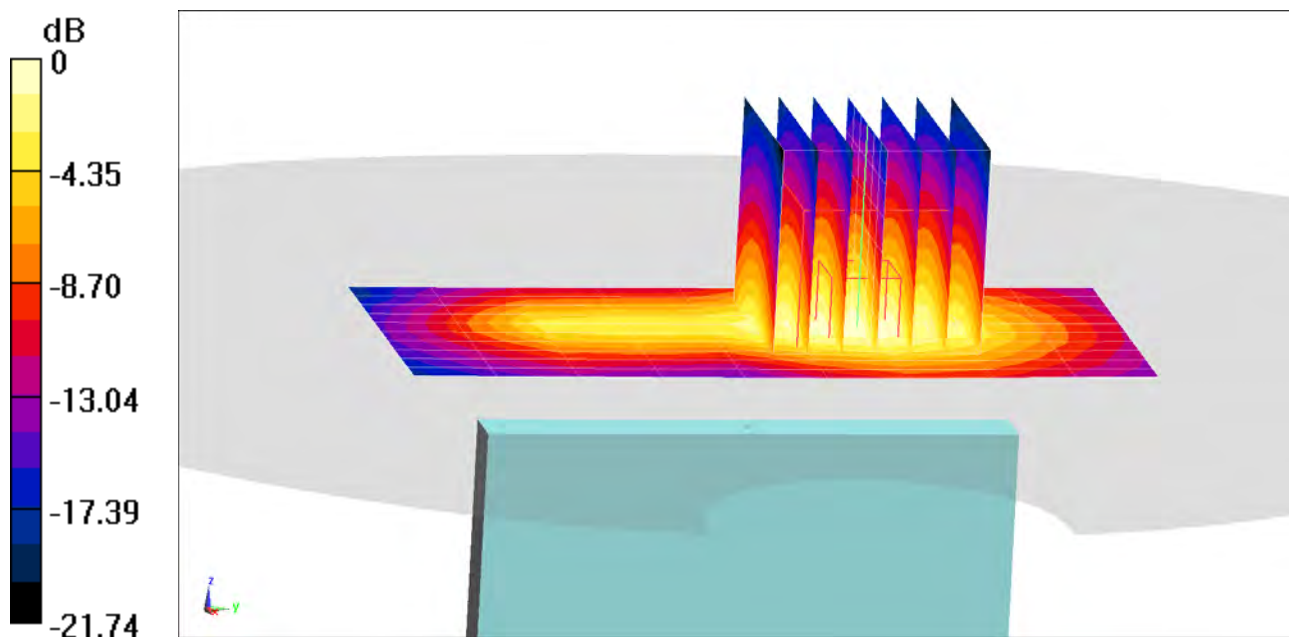
**Area Scan (11x10x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 14.49 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.763 W/kg

**SAR(1 g) = 0.393 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0070M**

Communication System: UID 0, NR Band n71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 680.5$  MHz;  $\sigma = 0.941$  S/m;  $\epsilon_r = 53.654$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 680.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n71, Body SAR, Back Side, 20 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 136100, 1 RB, 53 RB Offset**

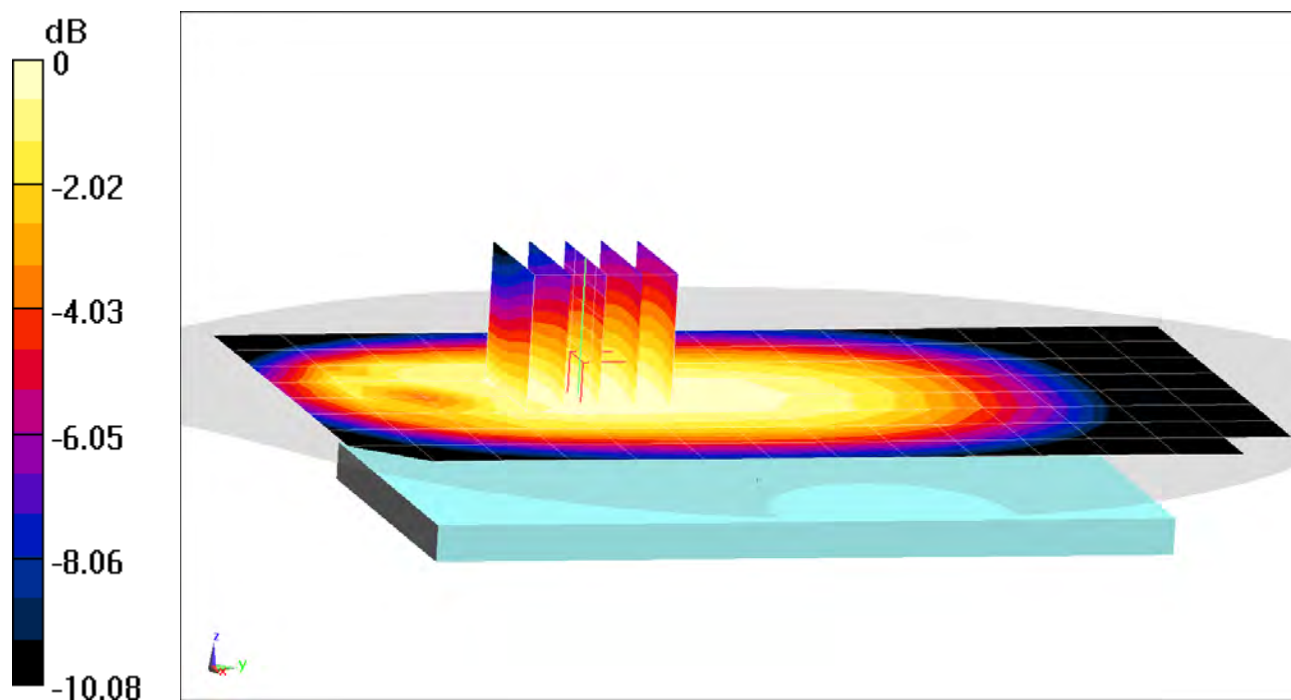
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 13.98 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.261 W/kg

**SAR(1 g) = 0.205 W/kg**



0 dB = 0.243 W/kg = -6.14 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0070M**

Communication System: UID 0, NR Band n71; Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 680.5$  MHz;  $\sigma = 0.941$  S/m;  $\epsilon_r = 53.654$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 680.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n71, Body SAR, Back Side, 20 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 136100, 1 RB, 53 RB Offset**

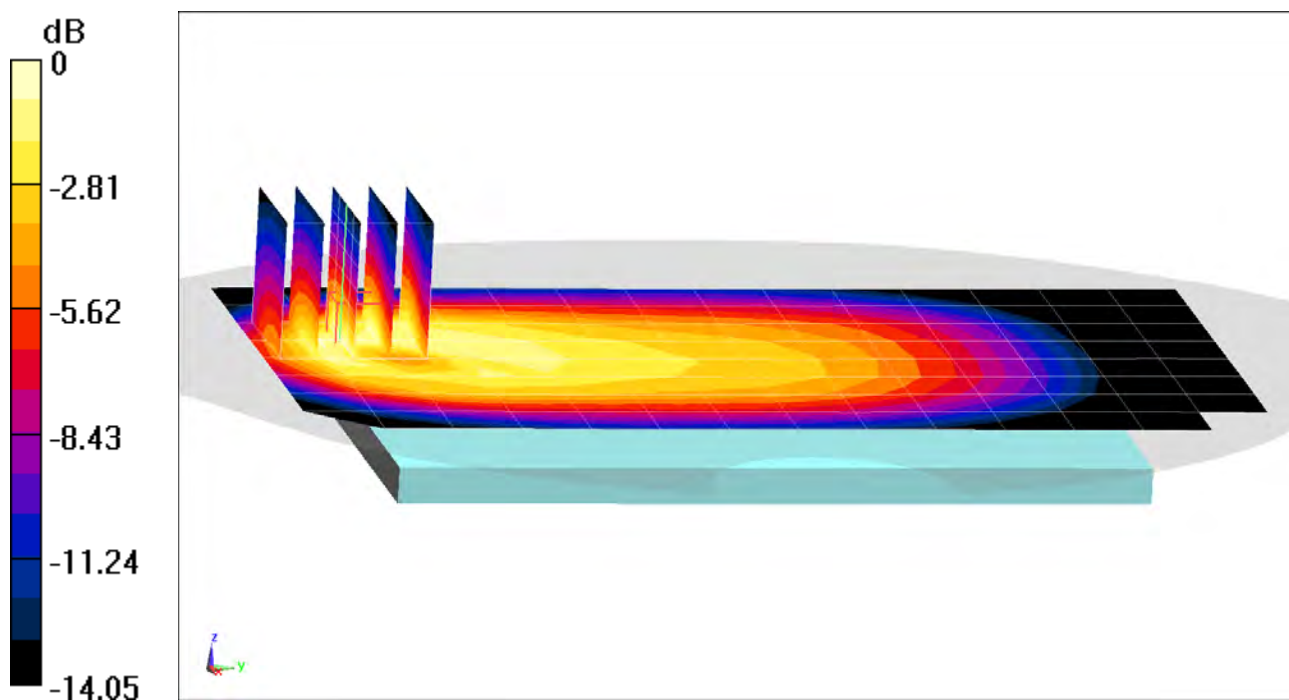
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 17.68 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.567 W/kg

**SAR(1 g) = 0.310 W/kg**



0 dB = 0.466 W/kg = -3.32 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0095M**

Communication System: UID 0, NR Band n12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5$  MHz;  $\sigma = 0.951$  S/m;  $\epsilon_r = 53.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n12, Body SAR, Back Side, 15 MHz Bandwidth  
DFT-s-OFDM QPSK, Ch. 141500, 1 RB, 77 RB Offset**

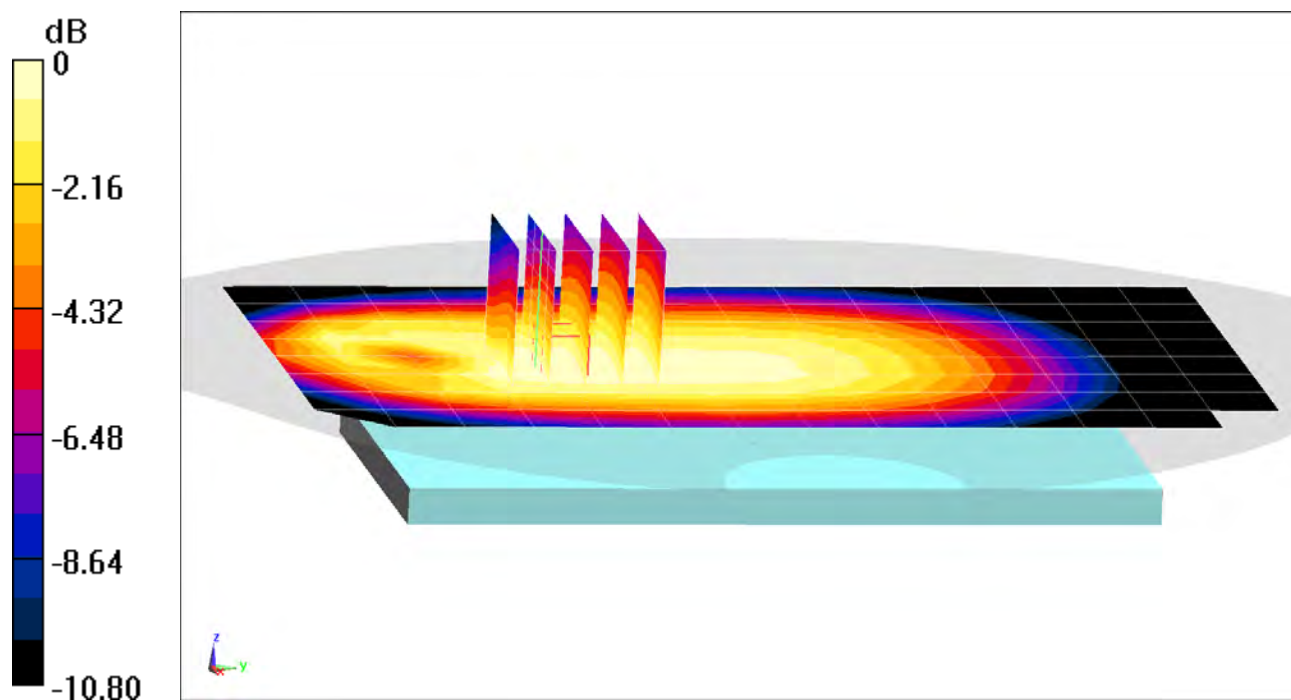
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 14.54 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.251 W/kg

**SAR(1 g) = 0.192 W/kg**



0 dB = 0.231 W/kg = -6.36 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0095M**

Communication System: UID 0, NR Band n12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used (interpolated):

$f = 707.5$  MHz;  $\sigma = 0.951$  S/m;  $\epsilon_r = 53.576$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 707.5 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n12, Body SAR, Back Side, 15 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 141500, 1 RB, 77 RB Offset**

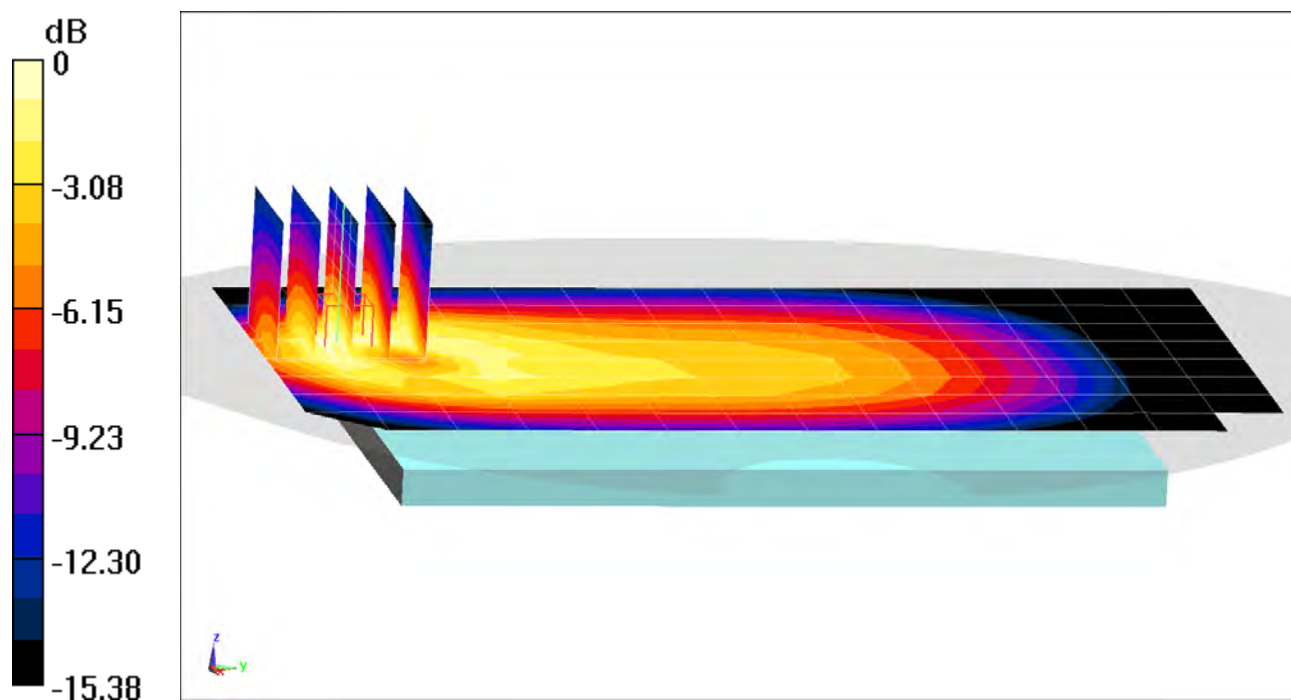
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 19.27 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.619 W/kg

**SAR(1 g) = 0.340 W/kg**



0 dB = 0.516 W/kg = -2.87 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0089M**

Communication System: UID 0, NR Band n5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.5$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 54.105$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/18/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 836.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n5, Body SAR, Back Side, 20 MHz Bandwidth  
DFT-s-OFDM QPSK, Ch. 167300, 1 RB, 53 RB Offset**

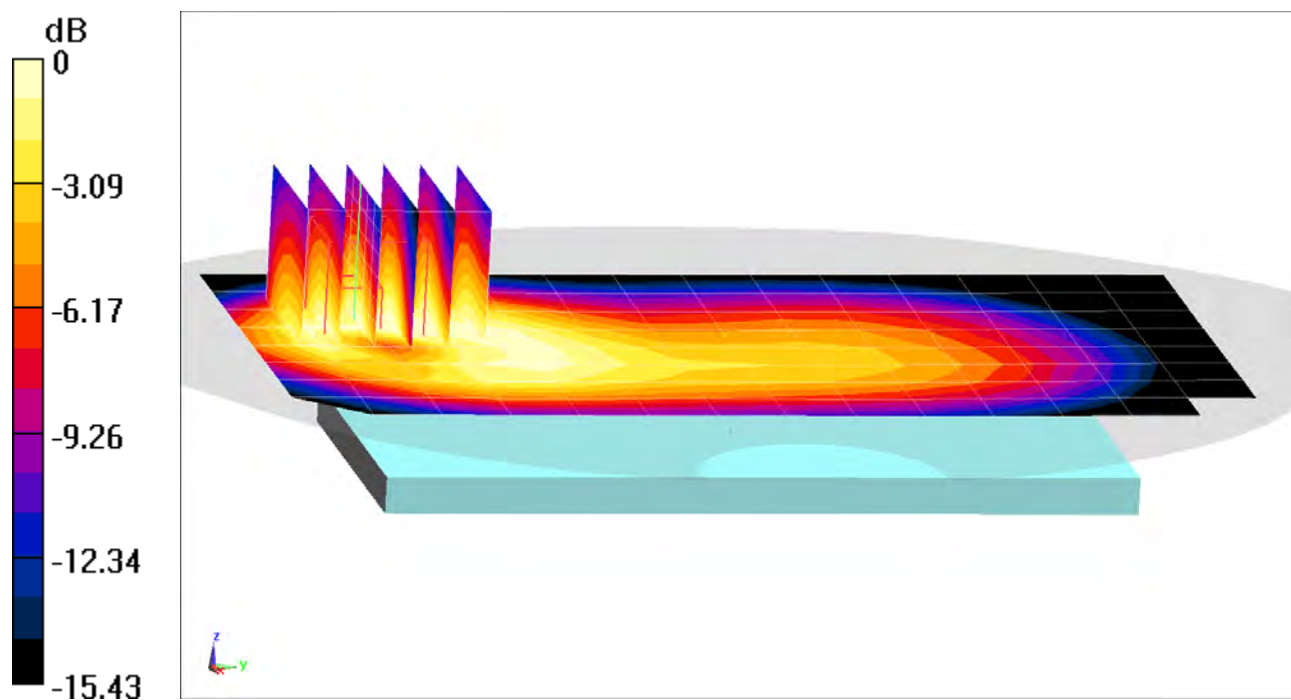
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.88 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.420 W/kg

**SAR(1 g) = 0.264 W/kg**



0 dB = 0.353 W/kg = -4.52 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0089M**

Communication System: UID 0, NR Band n5; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.5$  MHz;  $\sigma = 0.961$  S/m;  $\epsilon_r = 54.105$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/18/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 836.5 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n5, Body SAR, Back Side, 20 MHz Bandwidth**

**DFT-s-OFDM QPSK, Ch. 167300, 1 RB, 53 RB Offset**

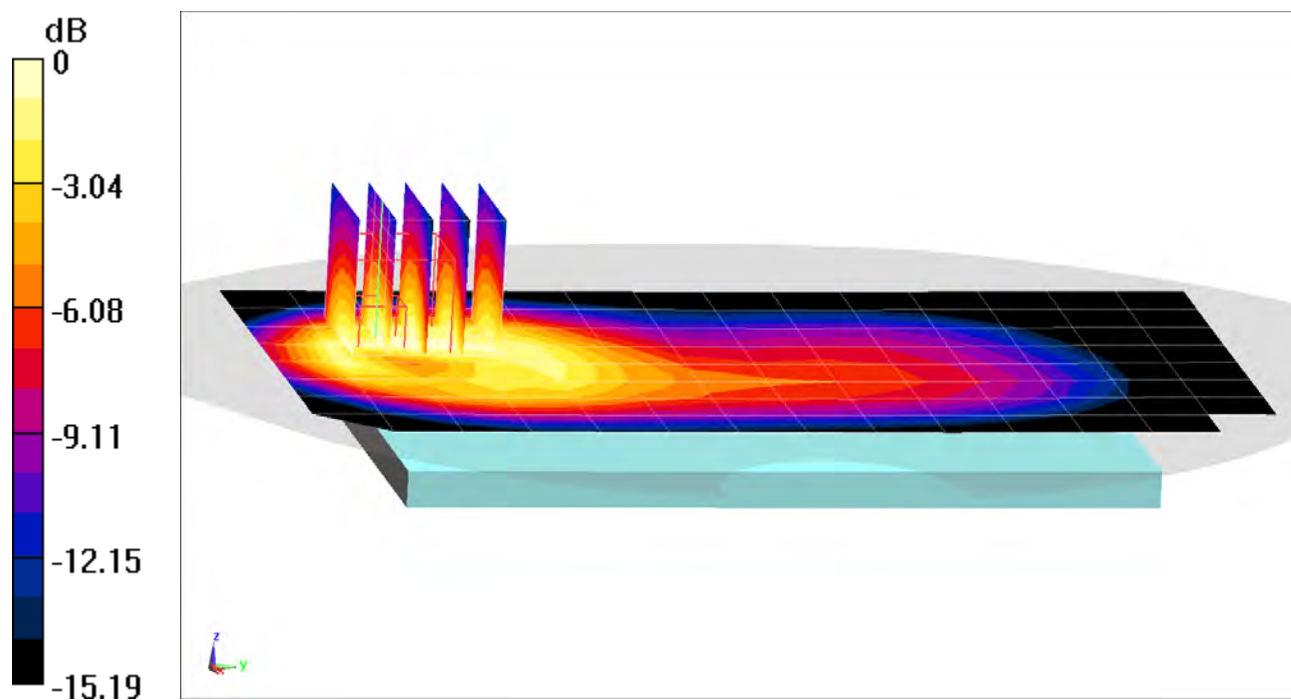
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 24.81 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.965 W/kg

**SAR(1 g) = 0.570 W/kg**



0 dB = 0.782 W/kg = -1.07 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0066M**

Communication System: UID 0, NR Band n66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1745$  MHz;  $\sigma = 1.538$  S/m;  $\epsilon_r = 52.409$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/20/2020; Ambient Temp: 21.4°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1745 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n66, Body SAR, Back Side, 20 MHz Bandwidth  
DFT-s-OFDM QPSK, Ch. 349000, 1 RB, 53 RB Offset**

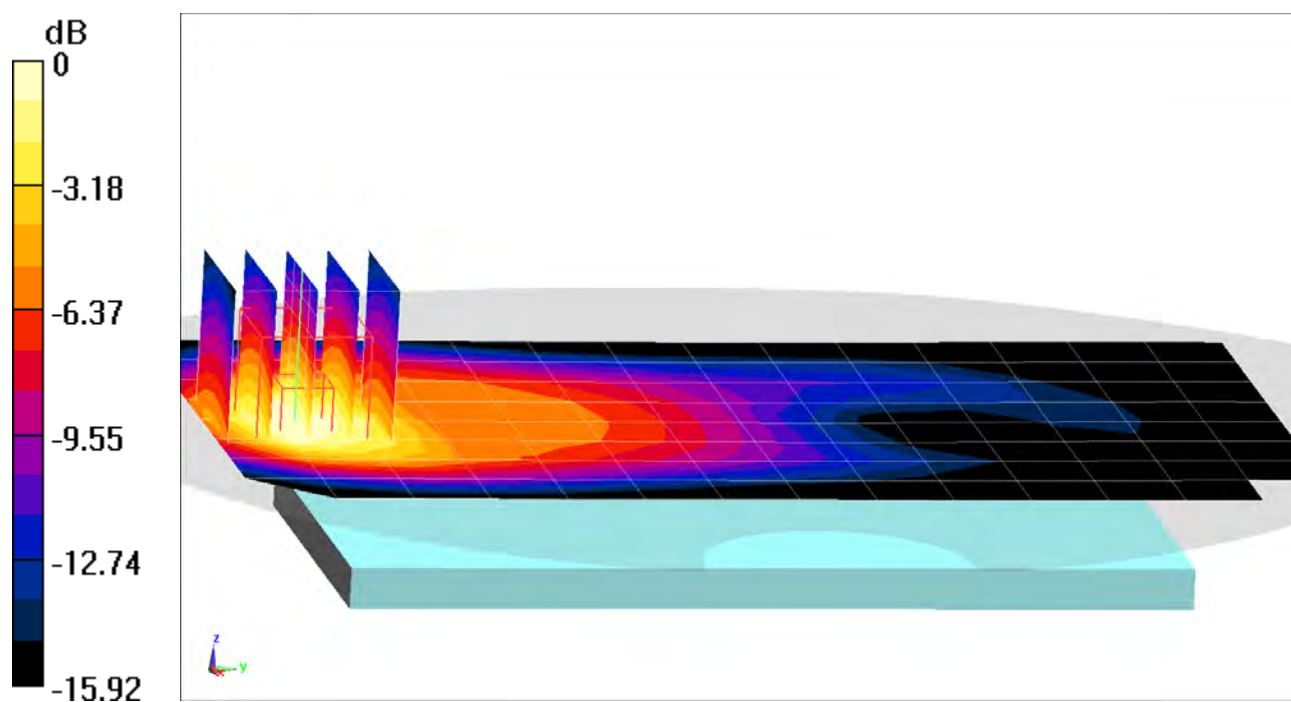
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 24.90 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.860 W/kg**



0 dB = 1.19 W/kg = 0.76 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0066M**

Communication System: UID 0, NR Band n66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1770$  MHz;  $\sigma = 1.565$  S/m;  $\epsilon_r = 52.938$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/01/2020; Ambient Temp: 21.4°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1770 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n66, Body SAR, Bottom Edge, 20 MHz Bandwidth  
DFT-s-OFDM QPSK, Ch. 354000, 1 RB, 1 RB Offset**

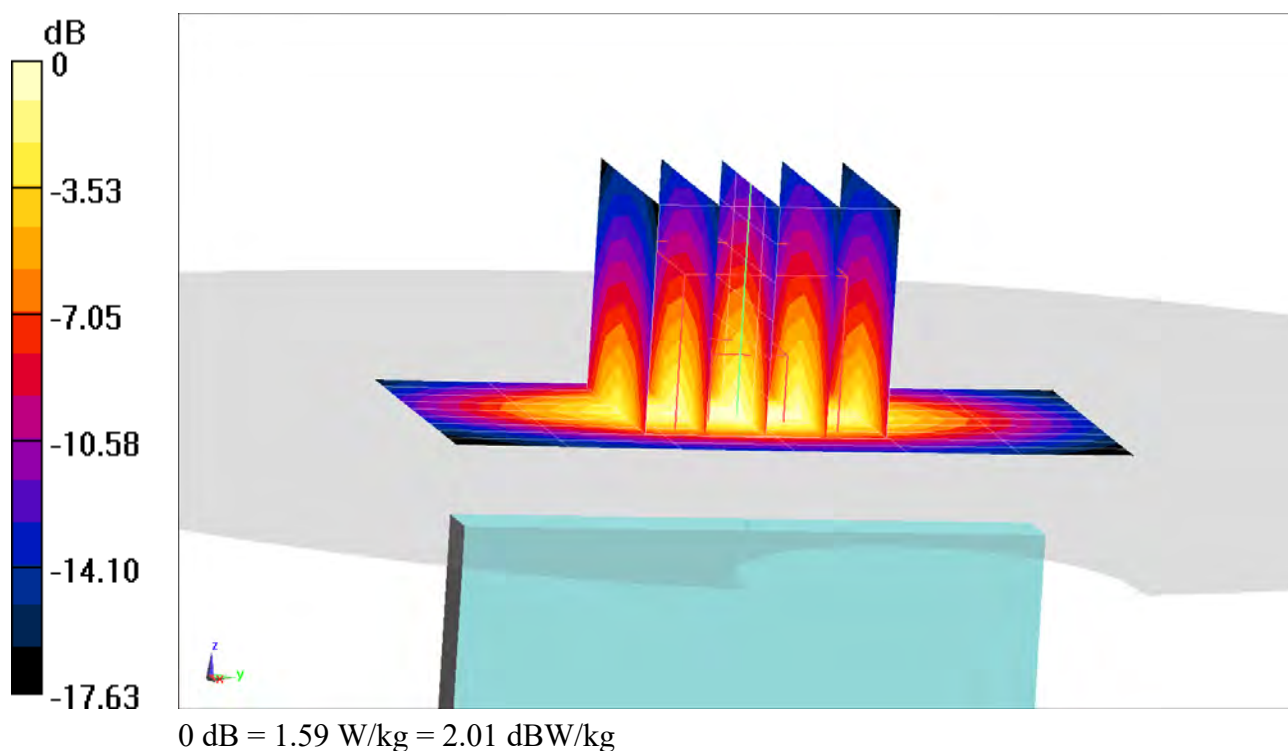
**Area Scan (10x7x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 27.89 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 1.08 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0065M**

Communication System: UID 0, NR Band n25; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905$  MHz;  $\sigma = 1.583$  S/m;  $\epsilon_r = 54.036$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/20/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n25, Body SAR, Back Side, 20 MHz Bandwidth**

**DFT-s-OFDM QPSK, Ch. 381000, 1 RB, 53 RB Offset**

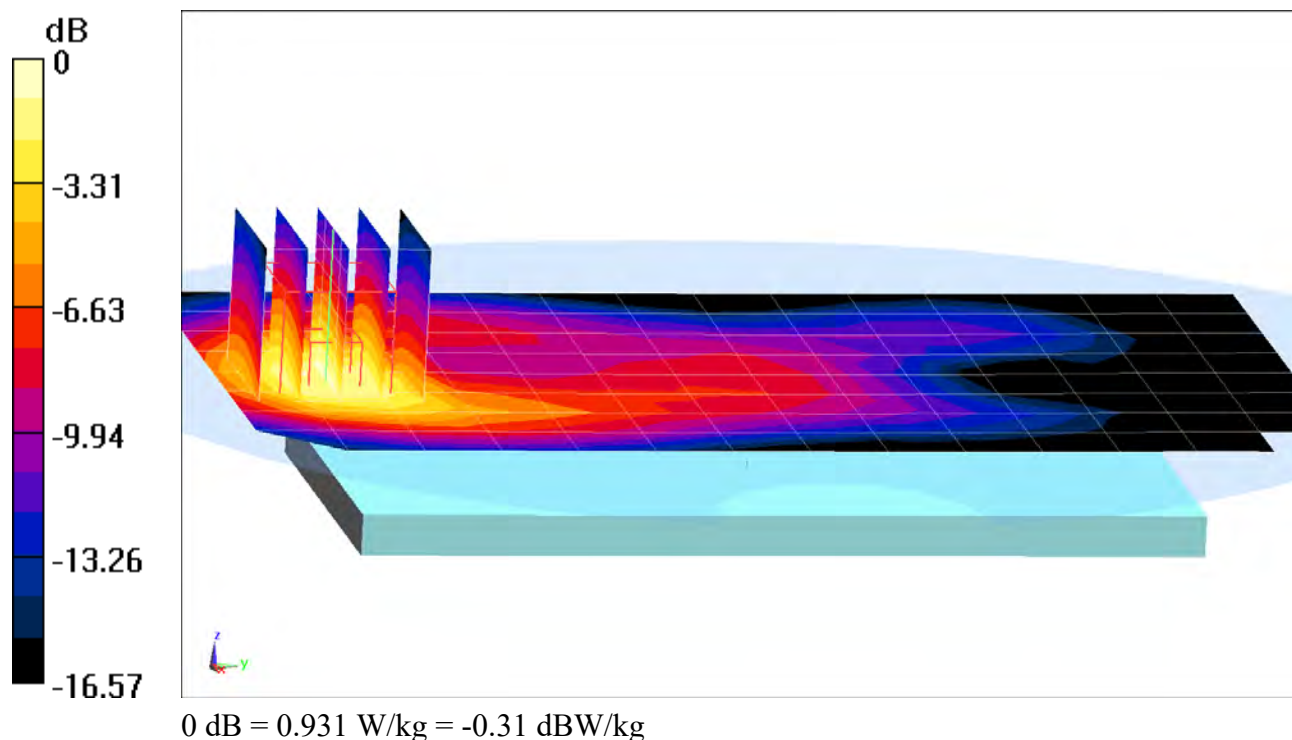
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Reference Value = 20.93 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.659 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0065M**

Communication System: UID 0, NR Band n25; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905$  MHz;  $\sigma = 1.549$  S/m;  $\epsilon_r = 53.538$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/23/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.9°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n25, Body SAR, Bottom Edge, 20 MHz Bandwidth  
DFT-s-OFDM QPSK, Ch. 381000, 1 RB, 53 RB Offset**

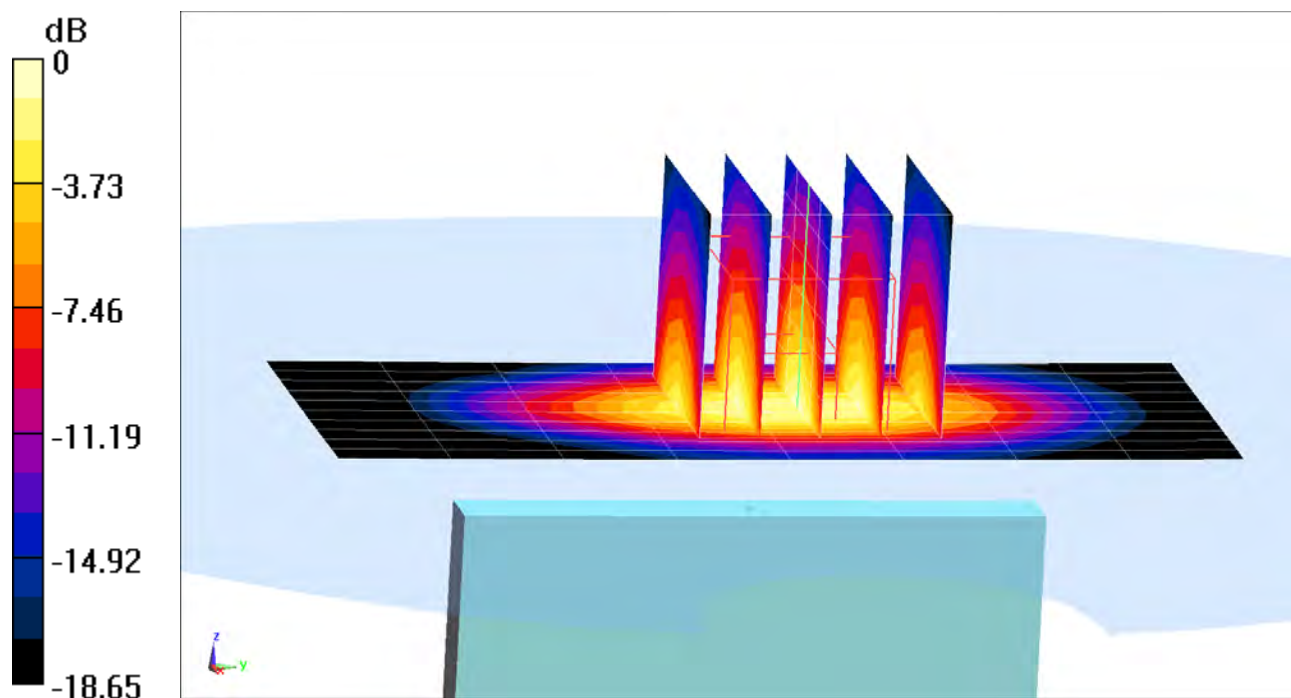
**Area Scan (11x9x1):** Measurement grid: dx=5mm, dy=15mm

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

Reference Value = 29.06 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.06 W/kg

**SAR(1 g) = 1.15 W/kg**



0 dB = 1.74 W/kg = 2.41 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1187M**

Communication System: UID 0, NR Band n41; Frequency: 2592.99 MHz; Duty Cycle: 1:4

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2592.99$  MHz;  $\sigma = 2.212$  S/m;  $\epsilon_r = 50.346$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2592.99 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n41, Body SAR, Back Side, 100 MHz Bandwidth**

**DFT-s-OFDM QPSK, Ch. 518598, 1 RB, 137 RB Offset**

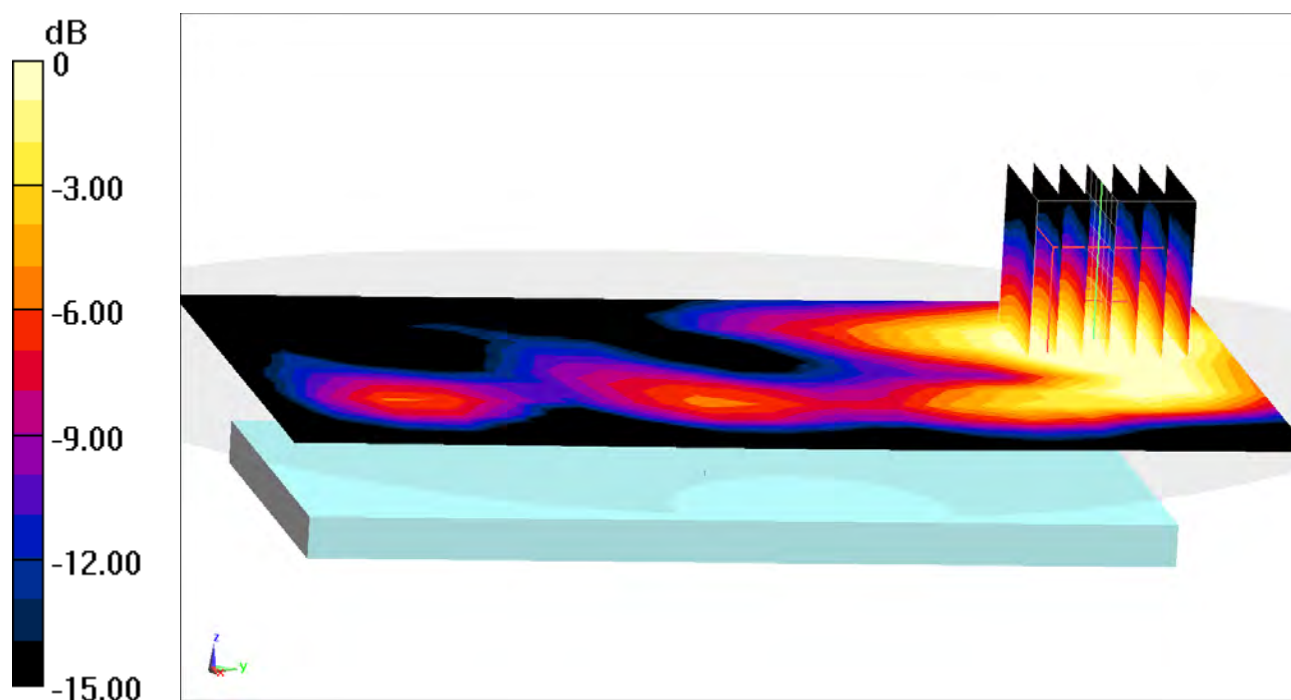
**Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 6.266 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.152 W/kg

**SAR(1 g) = 0.081 W/kg**



0 dB = 0.124 W/kg = -9.07 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1187M**

Communication System: UID 0, NR Band n41; Frequency: 2592.99 MHz; Duty Cycle: 1:4

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2592.99$  MHz;  $\sigma = 2.212$  S/m;  $\epsilon_r = 50.346$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2592.99 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n41, Body SAR, Top Edge, 100 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 518598, 1 RB, 137 RB Offset**

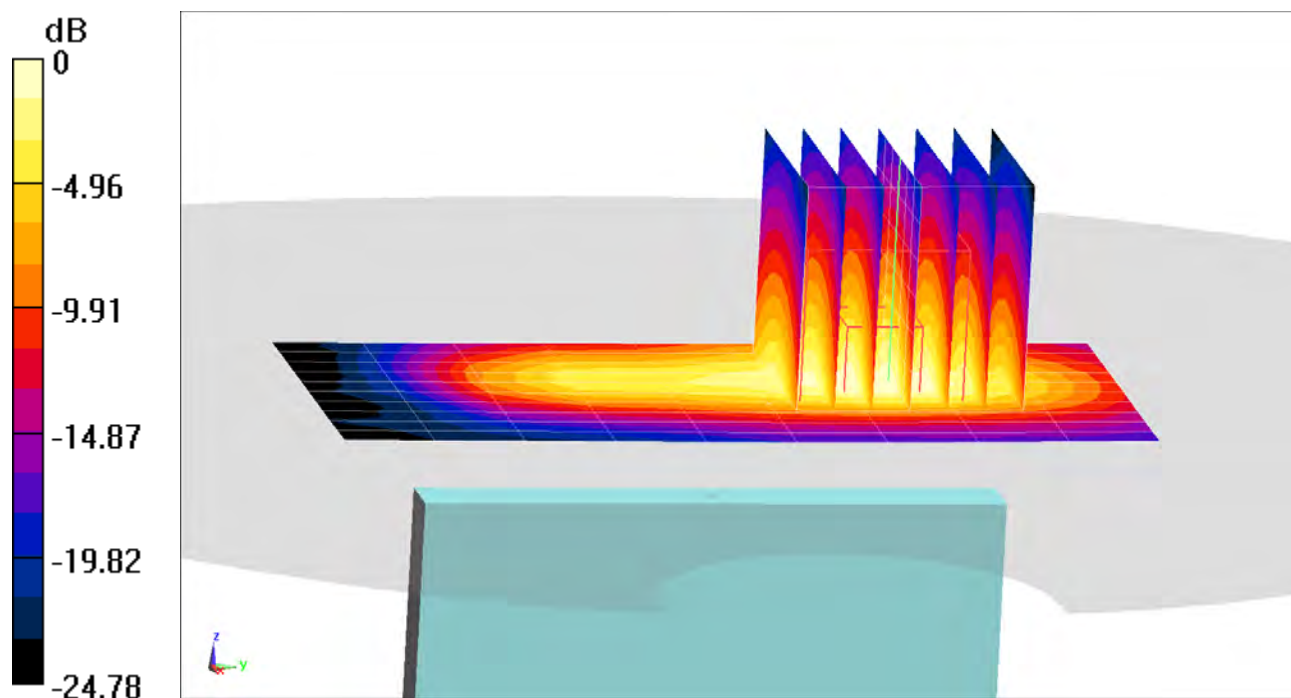
**Area Scan (11x10x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 14.52 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.839 W/kg

**SAR(1 g) = 0.406 W/kg**



0 dB = 0.671 W/kg = -1.73 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0697M**

Communication System: UID 0, IEEE 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$ ;  $\sigma = 2.059 \text{ S/m}$ ;  $\epsilon_r = 50.745$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2462 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1,  
Body SAR, Ch 11, 1 Mbps, Back Side**

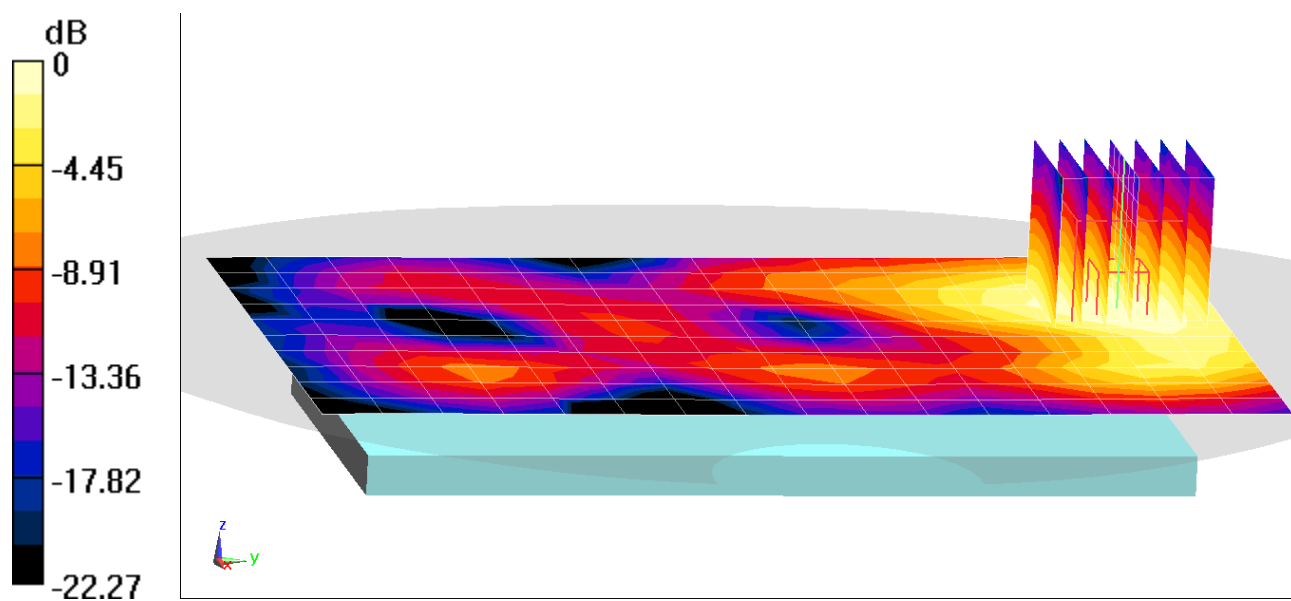
**Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 7.417 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.188 W/kg

**SAR(1 g) = 0.104 W/kg**



0 dB = 0.155 W/kg = -8.10 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0697M**

Communication System: UID 0, 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$ ;  $\sigma = 2.059 \text{ S/m}$ ;  $\epsilon_r = 50.745$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2462 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b, 22 MHz Bandwidth, Antenna 1**  
**Body SAR, Ch 11, 1 Mbps, Top Edge**

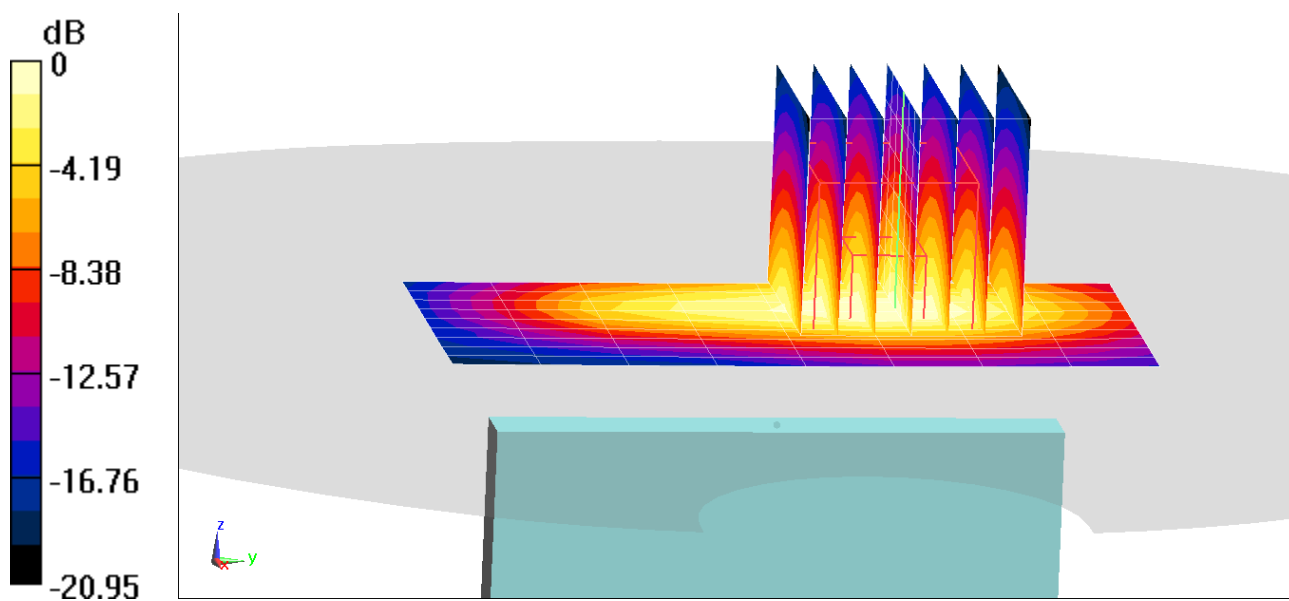
**Area Scan (10x9x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 10.83 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.943 W/kg

**SAR(1 g) = 0.488 W/kg**



0 dB = 0.772 W/kg = -1.12 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0697M**

Communication System: UID 0, \_IEEE 802.11n; Frequency: 5720 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5720$  MHz;  $\sigma = 6.148$  S/m;  $\epsilon_r = 46.06$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/24/2020; Ambient Temp: 22.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7409; ConvF(4.23, 4.23, 4.23) @ 5720 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11n, UNII-2C MIMO, 20 MHz Bandwidth, Body SAR  
Ch 144, 13 Mbps, Back Side**

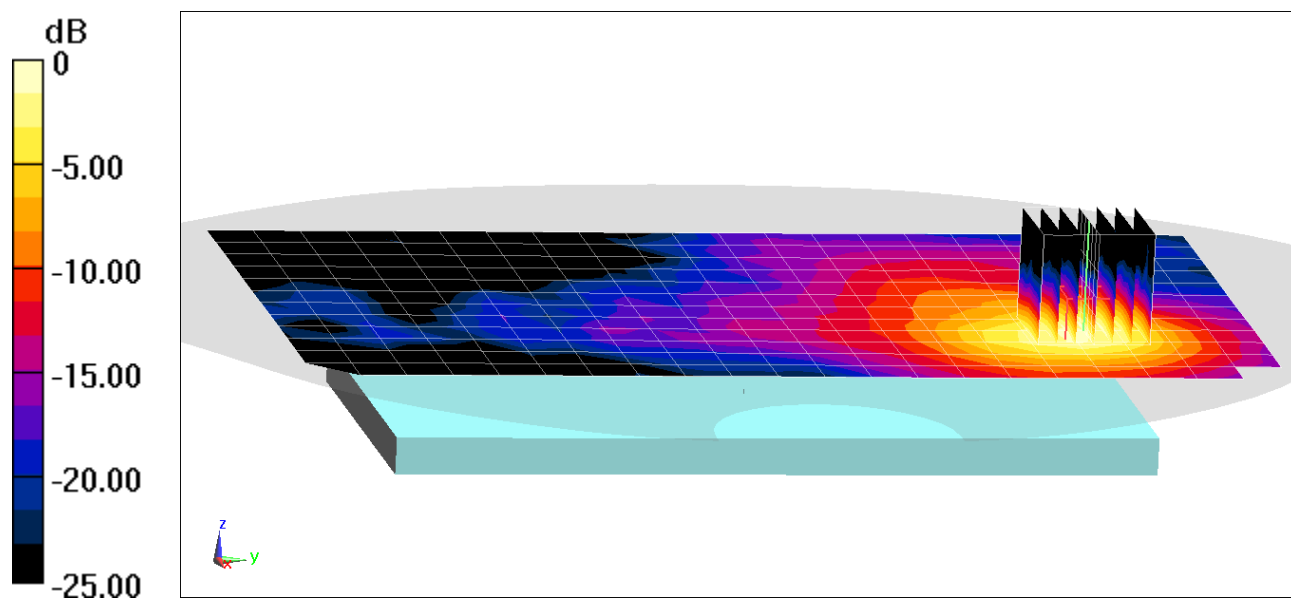
**Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 11.56 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.23 W/kg

**SAR(1 g) = 0.787 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0697M**

Communication System: UID 0, \_IEEE 802.11n; Frequency: 5795 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5795 \text{ MHz}$ ;  $\sigma = 6.257 \text{ S/m}$ ;  $\epsilon_r = 45.933$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/24/2020; Ambient Temp: 22.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7409; ConvF(4.23, 4.23, 4.23) @ 5795 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11n, UNII-3 MIMO, 40 MHz Bandwidth, Body SAR  
Ch 159, 27 Mbps, Back Side**

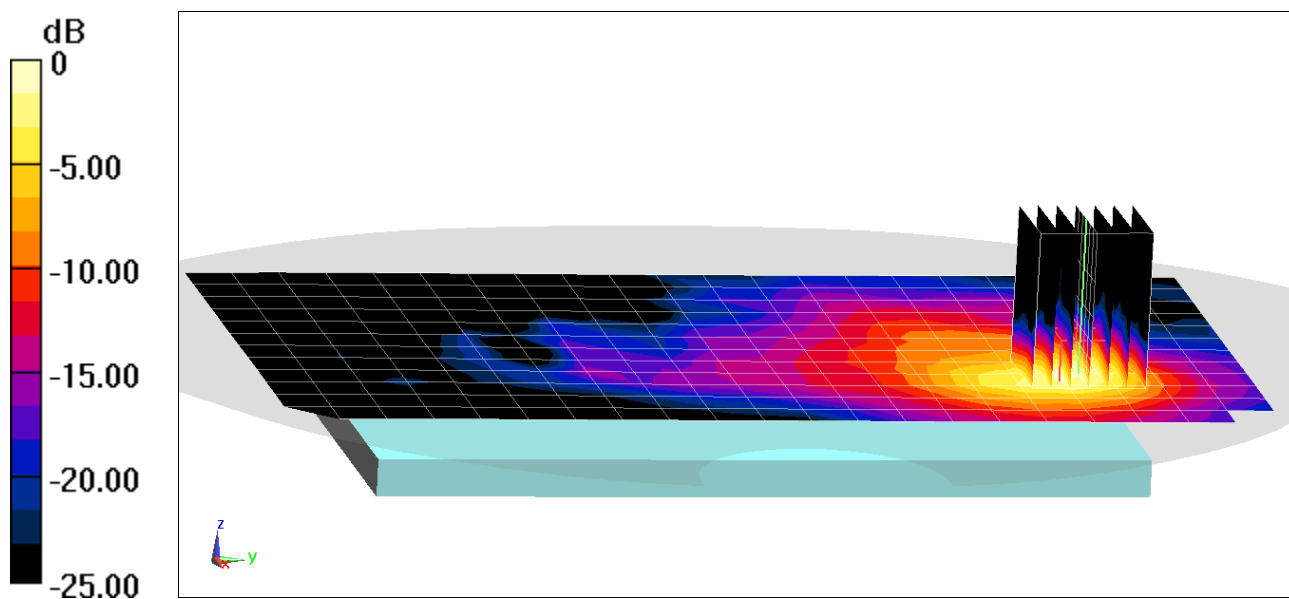
**Area Scan (13x22x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 2.027 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 3.74 W/kg

**SAR(1 g) = 0.854 W/kg**



0 dB = 2.13 W/kg = 3.28 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1175M**

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.294

Medium: 2450 Body; Medium parameters used:

$f = 2480$  MHz;  $\sigma = 2.079$  S/m;  $\epsilon_r = 50.688$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2480 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Body SAR, Ch 78, 1 Mbps, Back Side**

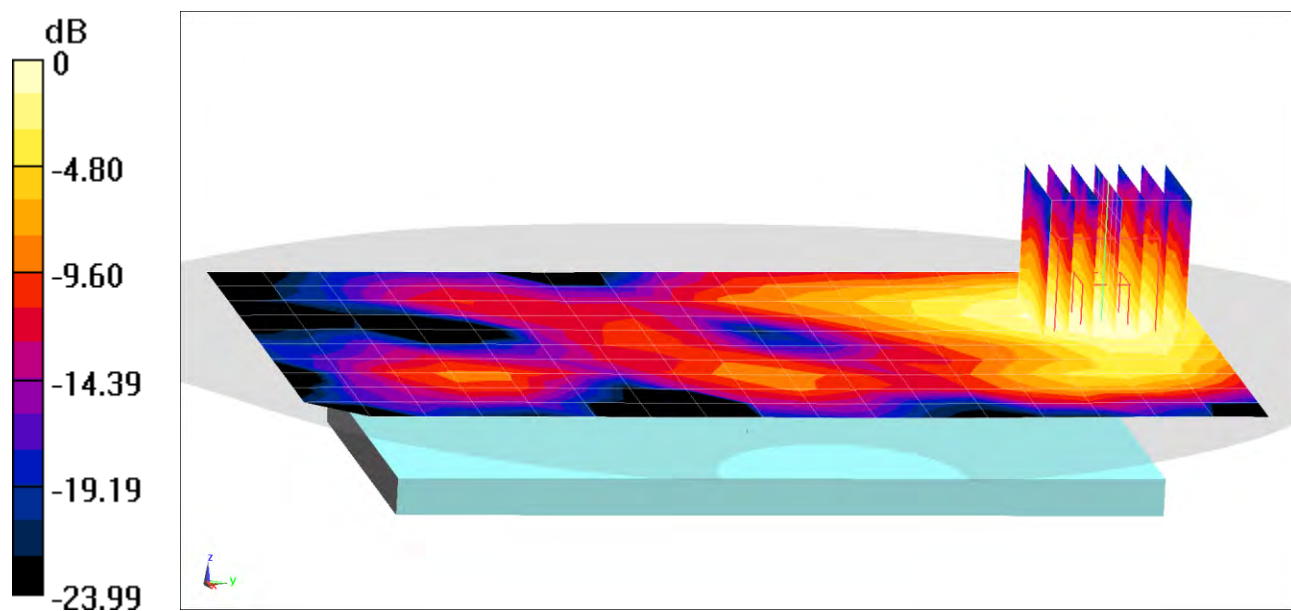
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

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

Reference Value = 4.203 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0630 W/kg

**SAR(1 g) = 0.033 W/kg**



0 dB = 0.0504 W/kg = -12.98 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 1175M**

Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.294

Medium: 2450 Body; Medium parameters used:

$f = 2480$  MHz;  $\sigma = 2.079$  S/m;  $\epsilon_r = 50.688$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2480 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Body SAR, Ch 78, 1 Mbps, Top Edge**

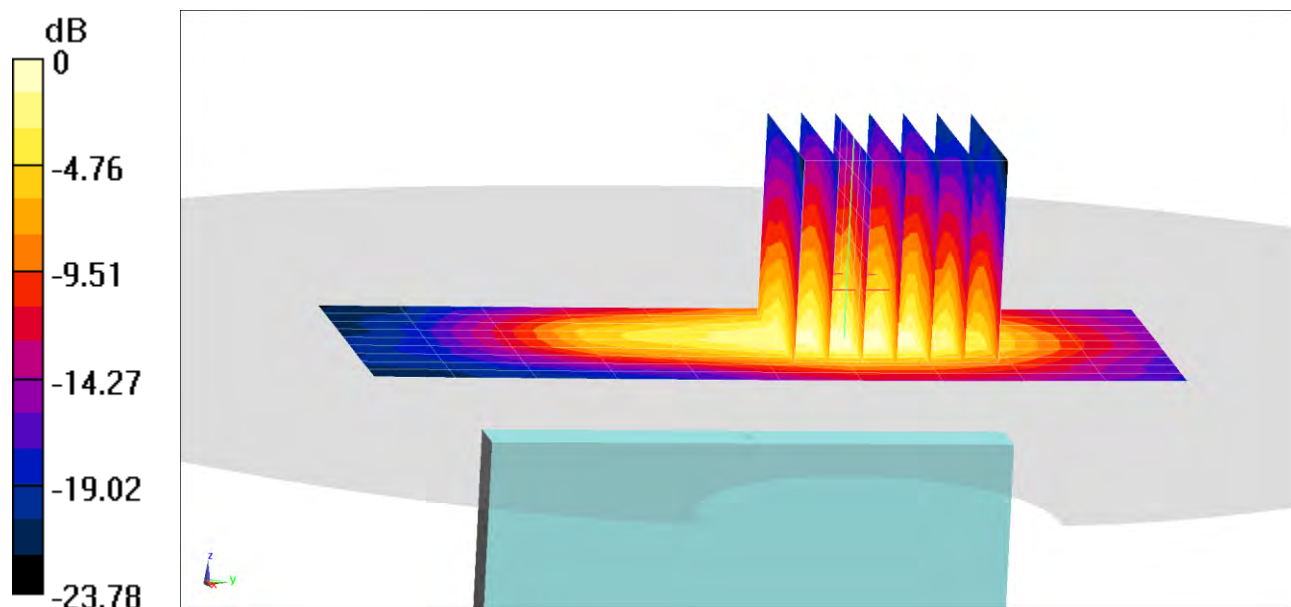
**Area Scan (10x11x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 10.20 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.404 W/kg

**SAR(1 g) = 0.182 W/kg**



0 dB = 0.322 W/kg = -4.92 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, CDMA; Frequency: 1908.75 MHz; Duty Cycle: 1:1

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

$f = 1908.75$  MHz;  $\sigma = 1.555$  S/m;  $\epsilon_r = 54.587$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/17/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1908.75 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: PCS EVDO, Phablet SAR, Bottom Edge, High.ch**

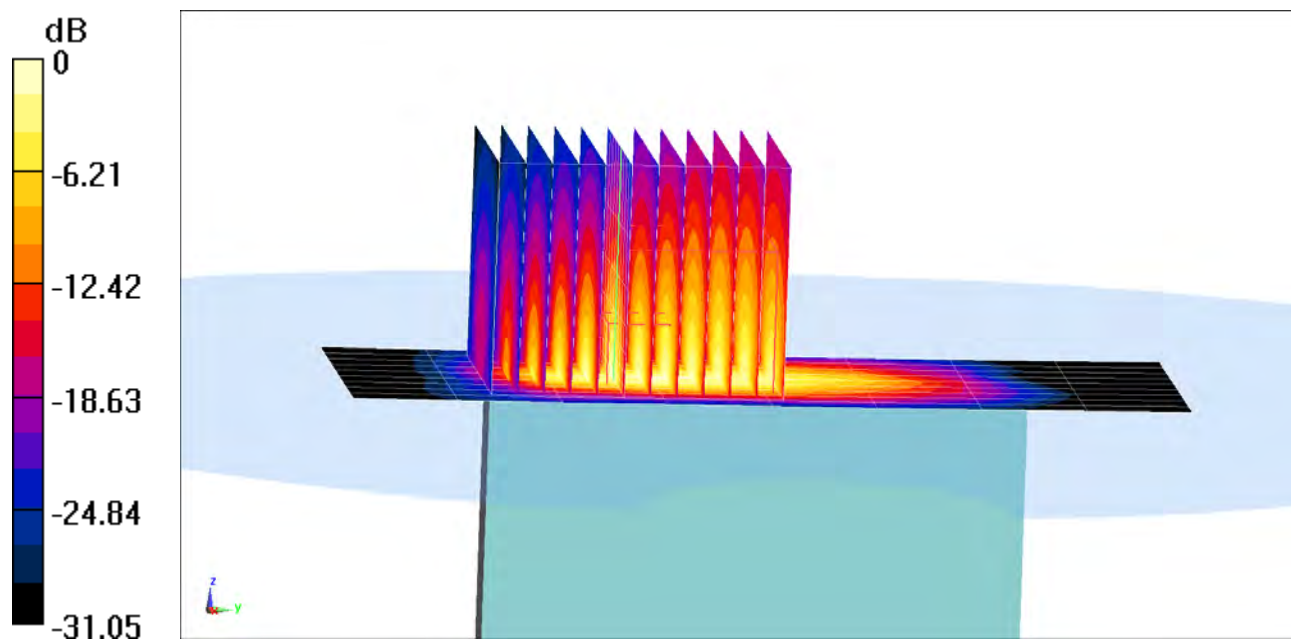
**Area Scan (10x9x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (10x12x8)/Cube 0:** Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 66.95 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 25.2 W/kg

**SAR(10 g) = 2.88 W/kg**



0 dB = 13.5 W/kg = 11.30 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, GSM GPRS; 4 Tx slots; Frequency: 1909.8 MHz; Duty Cycle: 1:2.076

Medium: 1900 Body; Medium parameters used:

$f = 1910$  MHz;  $\sigma = 1.579$  S/m;  $\epsilon_r = 52.606$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/12/2020; Ambient Temp: 24.9°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1909.8 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: GPRS 1900, Phablet SAR, Back side, High.ch, 4 Tx Slots**

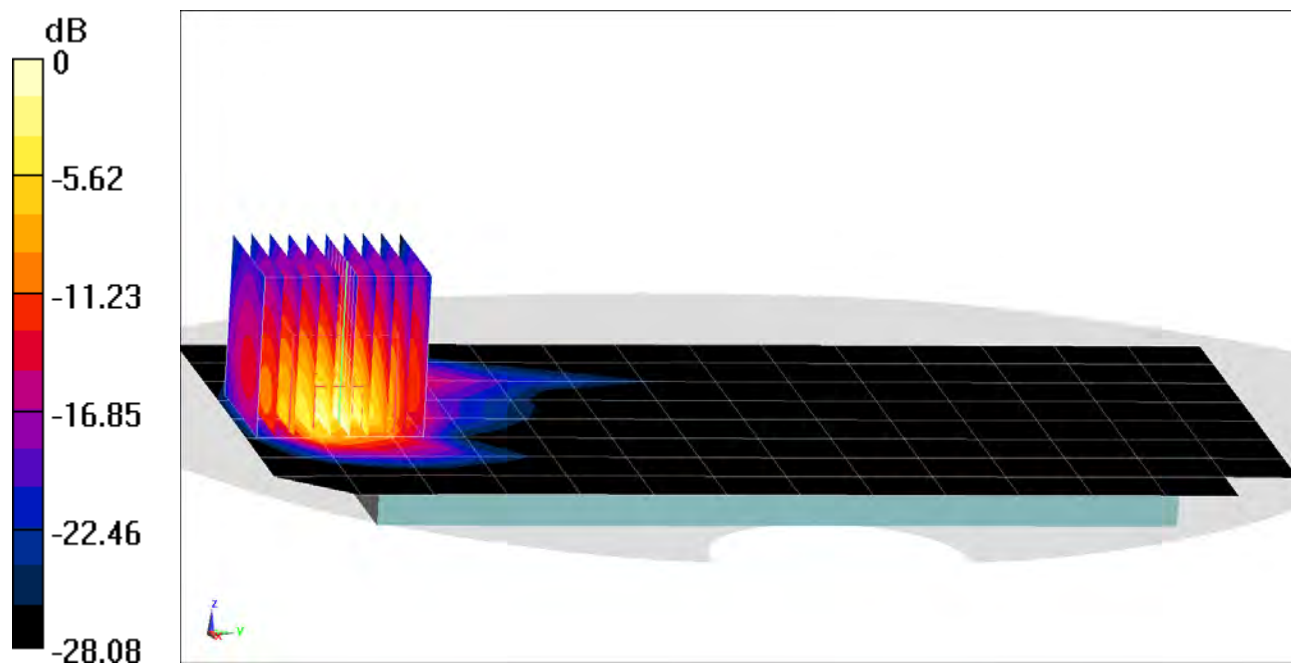
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (10x10x8)/Cube 0:** Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 47.97 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 9.24 W/kg

**SAR(10 g) = 1.46 W/kg**



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

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, UMTS; Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used (interpolated):

$f = 1712.4$  MHz;  $\sigma = 1.501$  S/m;  $\epsilon_r = 52.531$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/20/2020; Ambient Temp: 21.4°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1712.4 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1750, Phablet SAR, Bottom Edge, Low.ch**

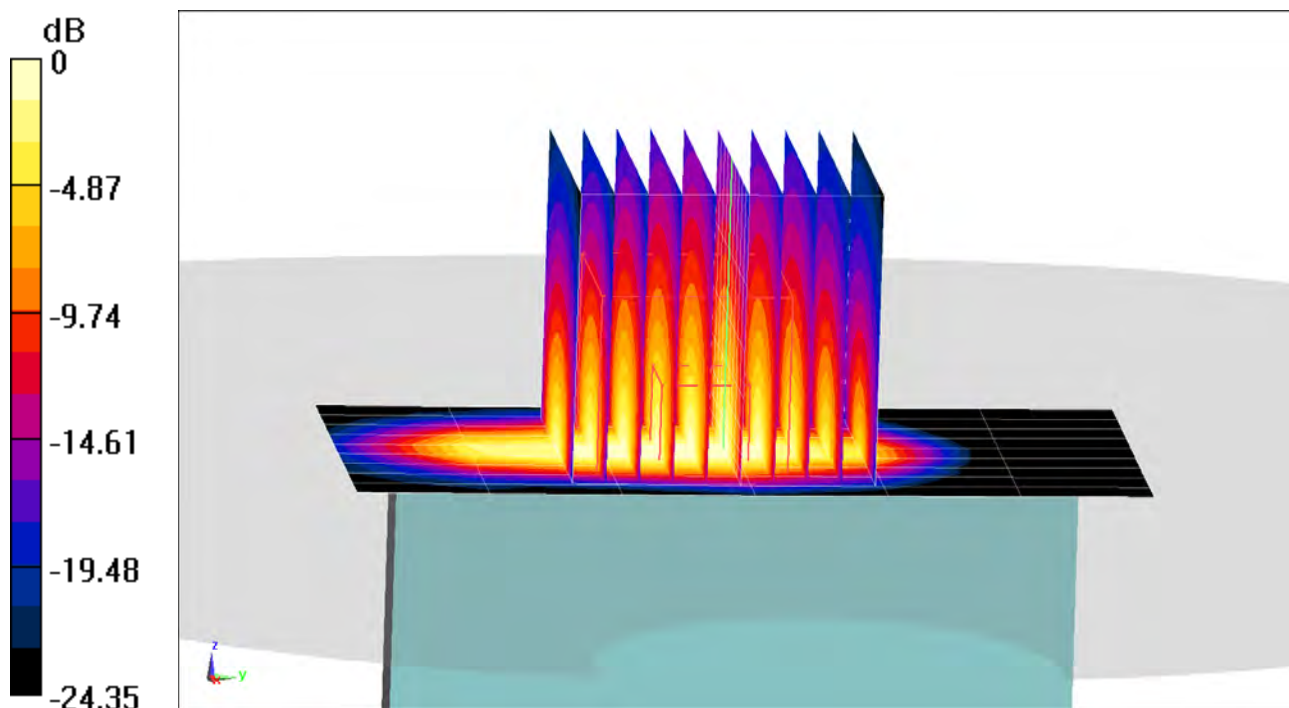
**Area Scan (10x7x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (10x10x8)/Cube 0:** Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 70.20 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 14.9 W/kg

**SAR(10 g) = 2.84 W/kg**



0 dB = 10.6 W/kg = 10.25 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0100M**

Communication System: UID 0, UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

$f = 1907.6$  MHz;  $\sigma = 1.587$  S/m;  $\epsilon_r = 52.684$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1907.6 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1900, Phablet SAR, Back side, High.ch**

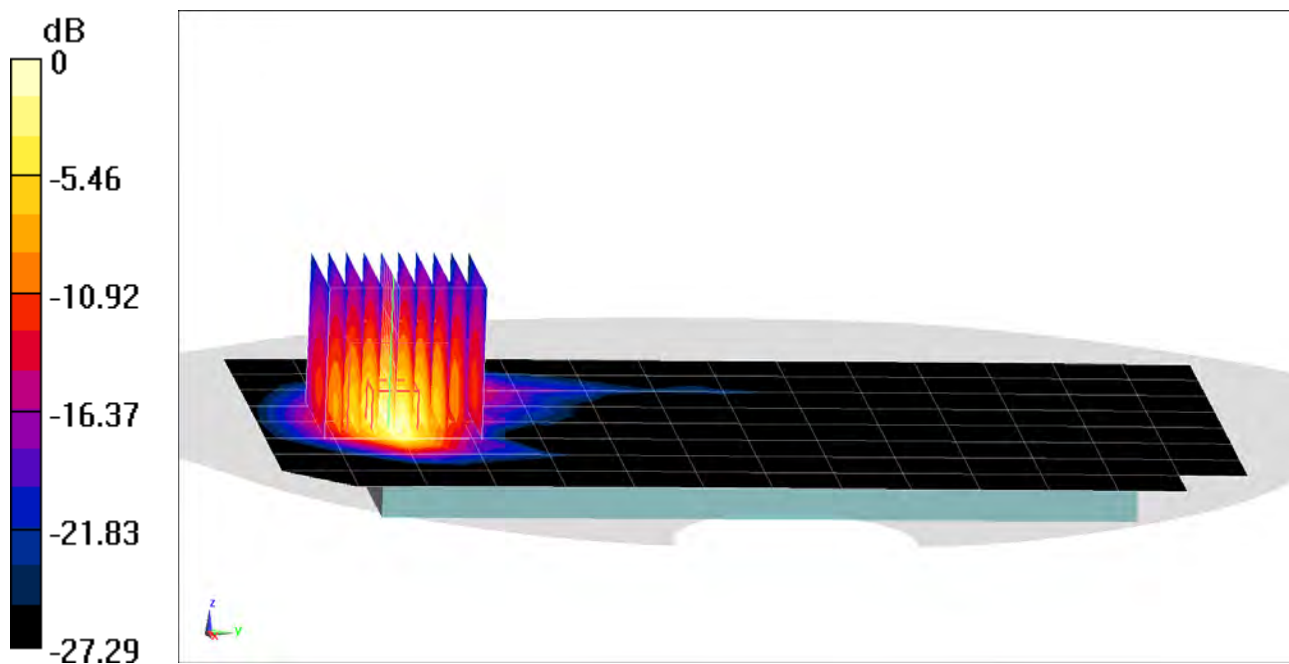
**Area Scan (9x15x1):** Measurement grid: dx=15mm, dy=15mm

**Zoom Scan (10x10x8)/Cube 0:** Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 61.96 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 14.9 W/kg

**SAR(10 g) = 2.38 W/kg**



0 dB = 10.1 W/kg = 10.04 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0071M**

Communication System: UID 0, LTE Band 66 (AWS),; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1720 \text{ MHz}$ ;  $\sigma = 1.477 \text{ S/m}$ ;  $\epsilon_r = 52.609$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/29/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1720 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), CA\_66C ULCA, Phablet SAR, Bottom Edge**

**PCC: 20 MHz Bandwidth, Ch. 132072, 100 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 132270, 100 RB, 0 RB Offset**

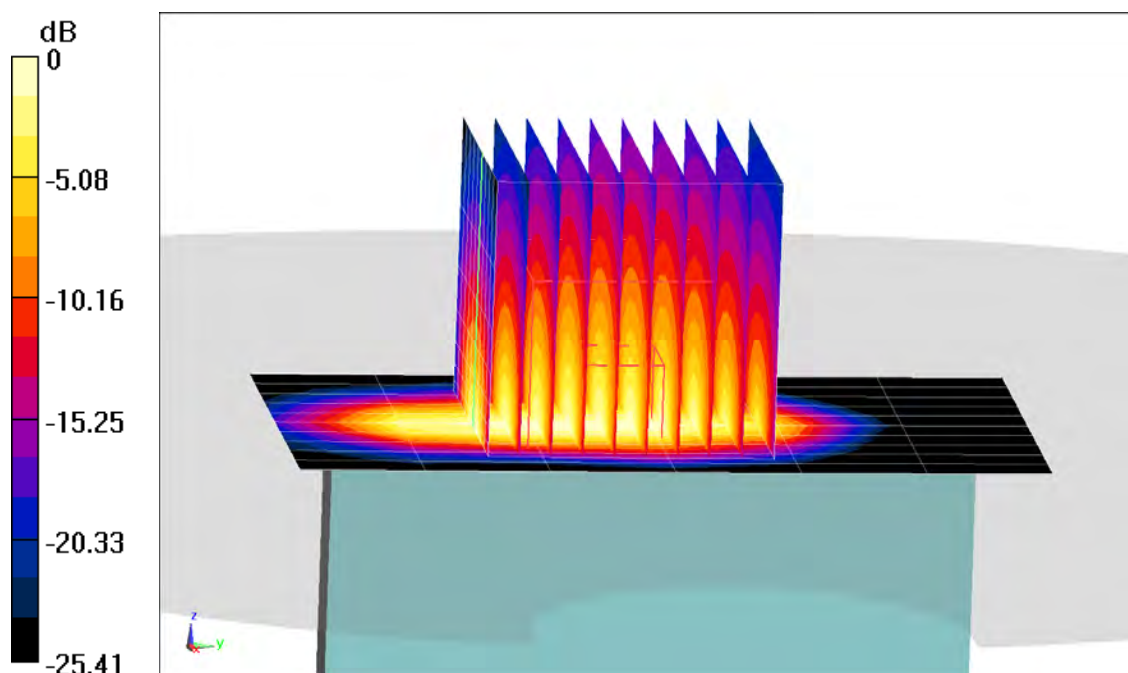
**Area Scan (11x7x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (10x10x8)/Cube 0:** Measurement grid:  $dx=3.8\text{mm}$ ,  $dy=3.8\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 71.31 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 20.1 W/kg

**SAR(10 g) = 2.98 W/kg**



# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905 \text{ MHz}$ ;  $\sigma = 1.55 \text{ S/m}$ ;  $\epsilon_r = 54.6$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/17/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Phablet SAR, Bottom Edge, High.ch**  
**20 MHz Bandwidth, QPSK, 50 RB, 25 RB Offset**

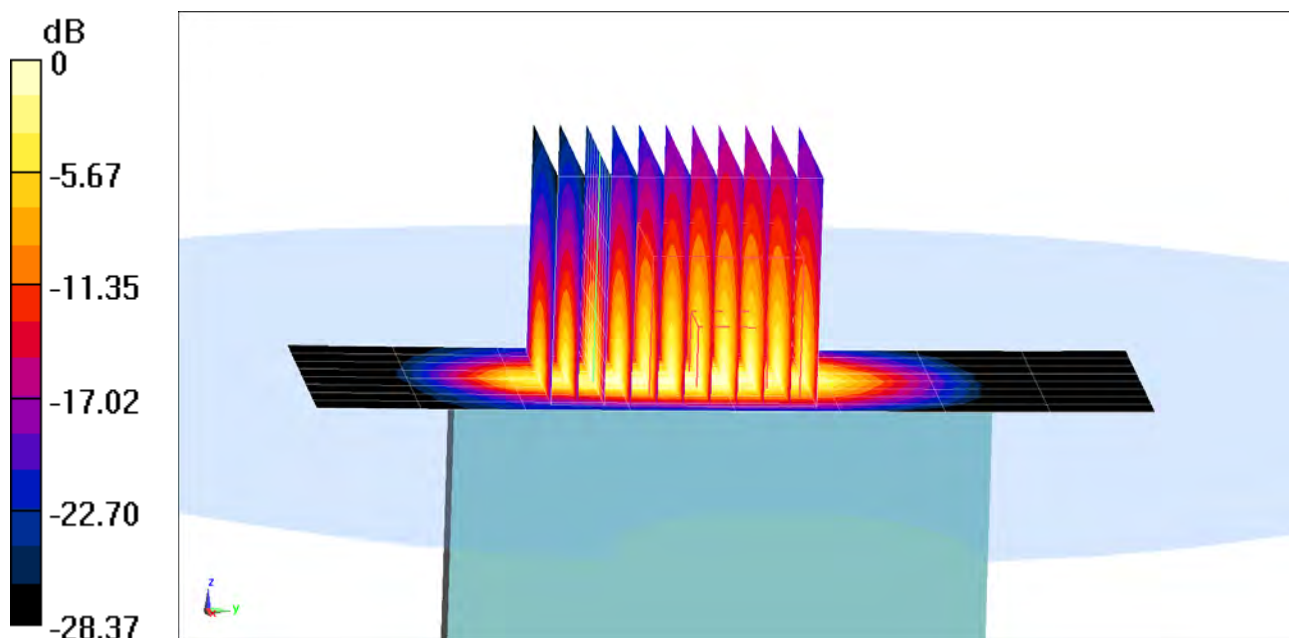
**Area Scan (9x9x1):** Measurement grid:  $dx=5\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (10x11x8)/Cube 0:** Measurement grid:  $dx=3.8\text{mm}$ ,  $dy=3.8\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 66.90 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 24.0 W/kg

**SAR(10 g) = 3.05 W/kg**



0 dB = 12.5 W/kg = 10.97 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0060M**

Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2310$  MHz;  $\sigma = 1.884$  S/m;  $\epsilon_r = 53.055$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06/07/2020; Ambient Temp: 23.6°C; Tissue Temp: 23.3°C

Probe: EX3DV4 - SN7547; ConvF(7.47, 7.47, 7.47) @ 2310 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 30, Phablet SAR, Back side, Mid.ch**  
**10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset**

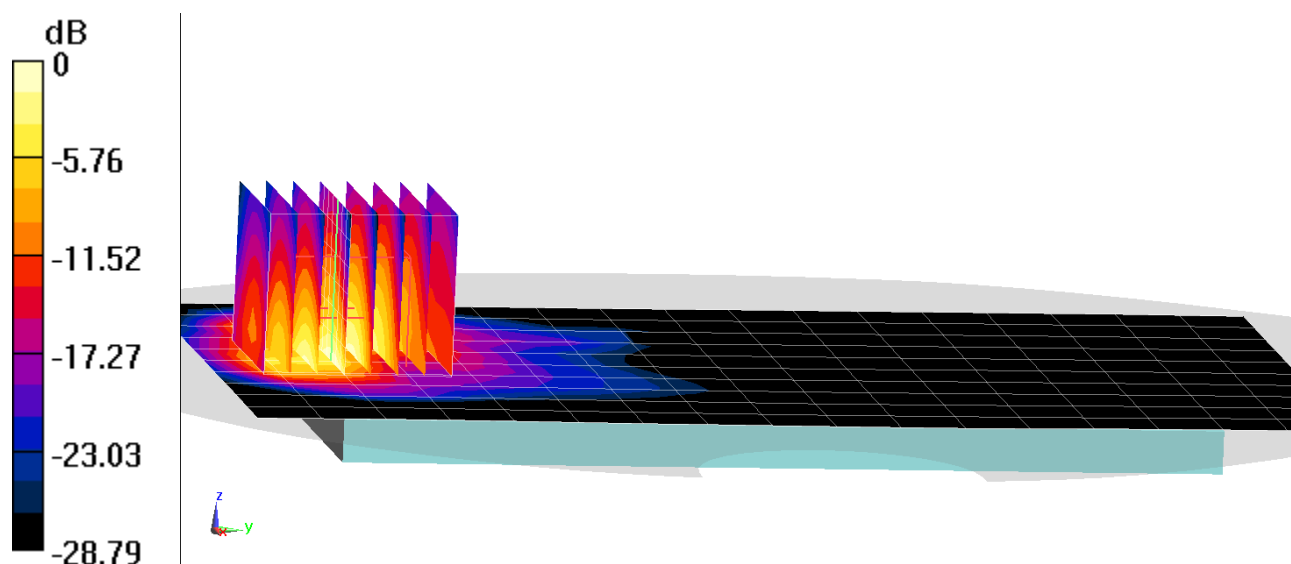
**Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.48 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 15.1 W/kg

**SAR(10 g) = 2.64 W/kg**



0 dB = 11.0 W/kg = 10.41 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0090M**

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2510 \text{ MHz}$ ;  $\sigma = 2.103 \text{ S/m}$ ;  $\epsilon_r = 52.408$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06/01/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2510 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 7, Phablet SAR, Bottom Edge, Low.ch**  
**20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset**

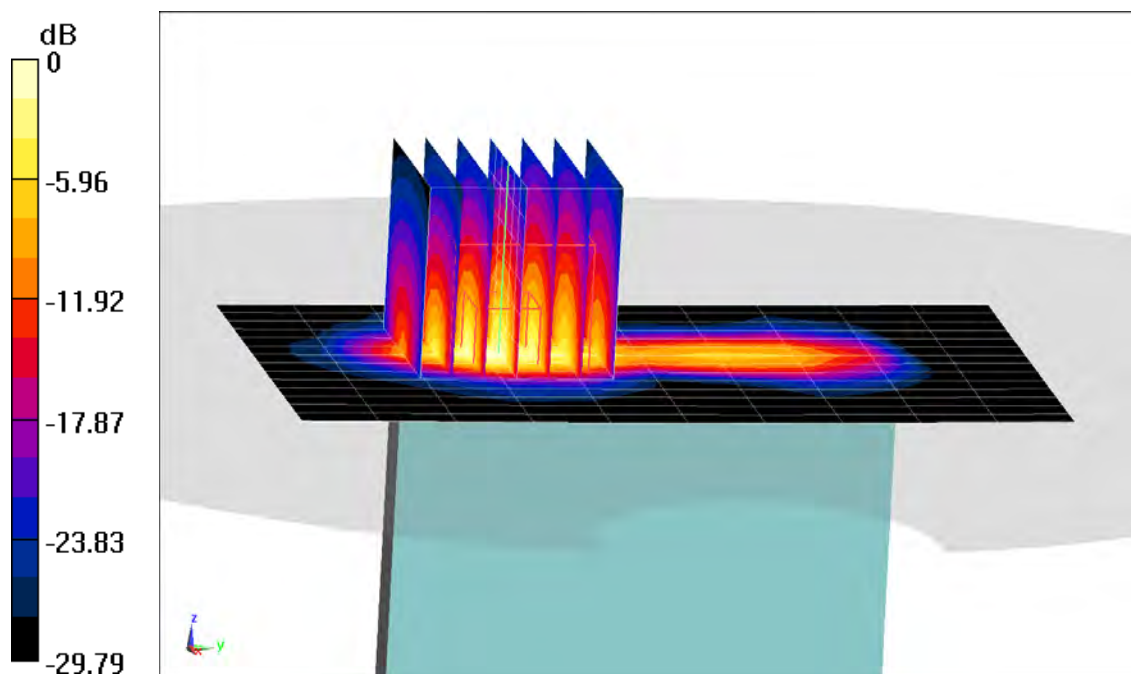
**Area Scan (15x11x1):** Measurement grid: dx=5mm, dy=12mm

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

Reference Value = 56.15 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(10 g) = 1.66 W/kg**



0 dB = 12.0 W/kg = 10.79 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0085M**

Communication System: UID 0, \_LTE Band 41 (Class 2); Frequency: 2636.5 MHz; Duty Cycle: 1:2.31

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2636.5$  MHz;  $\sigma = 2.257$  S/m;  $\epsilon_r = 50.468$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/20/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2636.5 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41 PC2, ULCA, Phablet SAR, Bottom Edge**

**PCC: 20 MHz Bandwidth, Ch. 41055, QPSK, 50 RB, 0 RB Offset**

**SCC: 20 MHz Bandwidth, Ch. 40857, QPSK, 50 RB, 50 RB Offset**

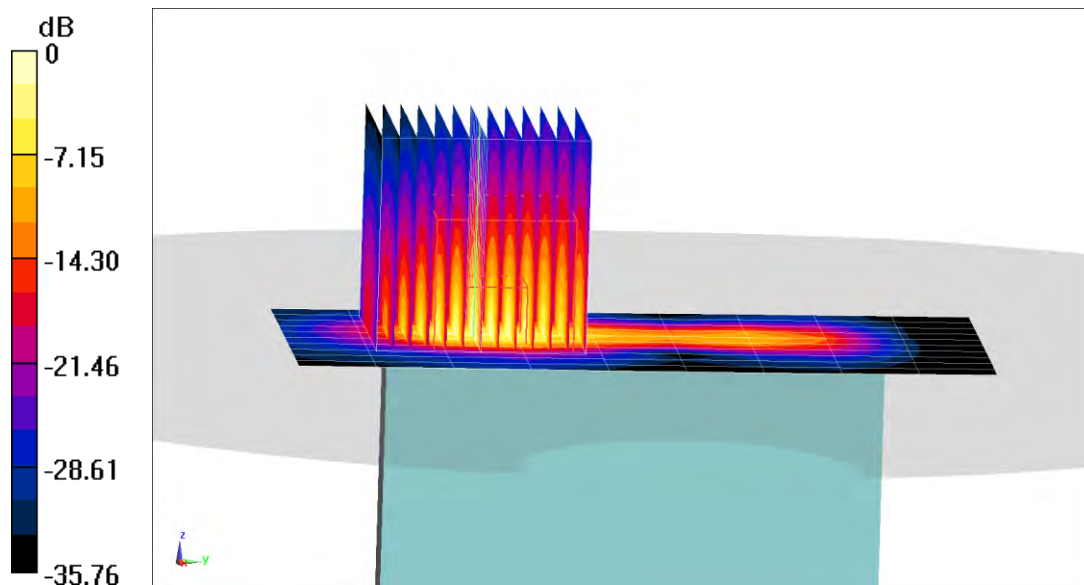
**Area Scan (11x10x1):** Measurement grid: dx=5mm, dy=12mm

**Zoom Scan (12x13x8)/Cube 0:** Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4

Reference Value = 62.05 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 41.0 W/kg

**SAR(10 g) = 2.53 W/kg**



0 dB = 22.3 W/kg = 13.48 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0066M**

Communication System: UID 0, NR Band n66; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: 1750 Body; Medium parameters used:

$f = 1770 \text{ MHz}$ ;  $\sigma = 1.565 \text{ S/m}$ ;  $\epsilon_r = 52.938$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06/01/2020; Ambient Temp: 21.4°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1770 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n66, Phablet SAR, Back Side, 20 MHz Bandwidth**

**DFT-s-OFDM QPSK, Ch. 354000, 1 RB, 53 RB Offset**

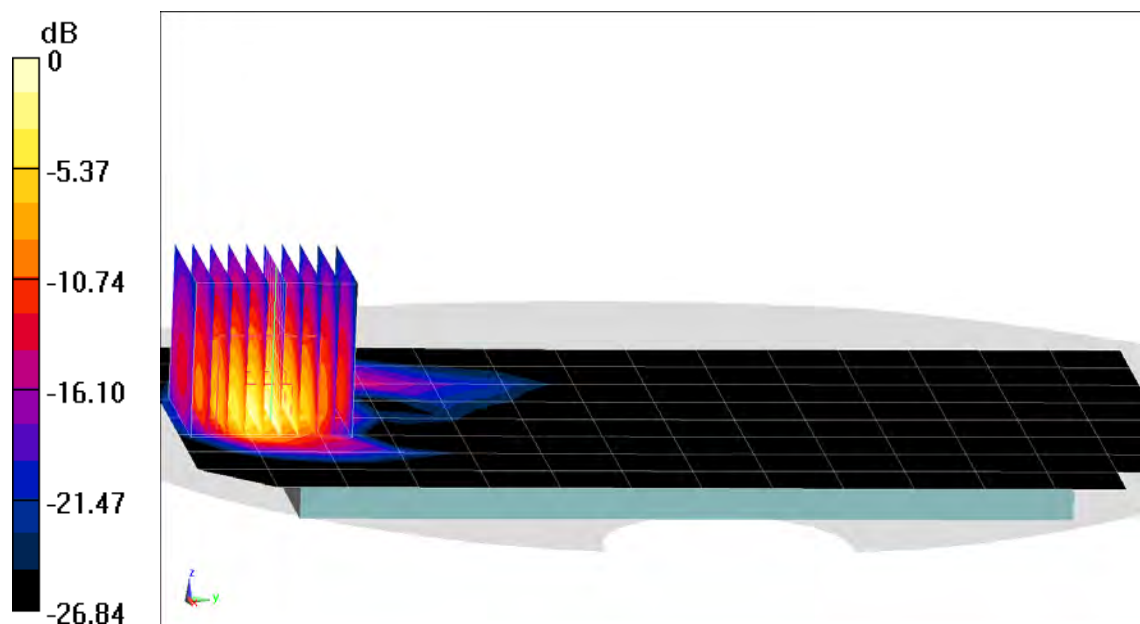
**Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (10x10x8)/Cube 0:** Measurement grid:  $dx=3.8\text{mm}$ ,  $dy=3.8\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 62.68 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 14.3 W/kg

**SAR(10 g) = 2.45 W/kg**



0 dB = 10.5 W/kg = 10.21 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0065M**

Communication System: UID 0, NR Band n25; Frequency: 1905 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1905$  MHz;  $\sigma = 1.549$  S/m;  $\epsilon_r = 53.538$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05/23/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.9°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1905 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: NR Band n25, Phablet SAR, Bottom Edge, 20 MHz Bandwidth**  
**DFT-s-OFDM QPSK, Ch. 381000, 100 RB, 0 RB Offset**

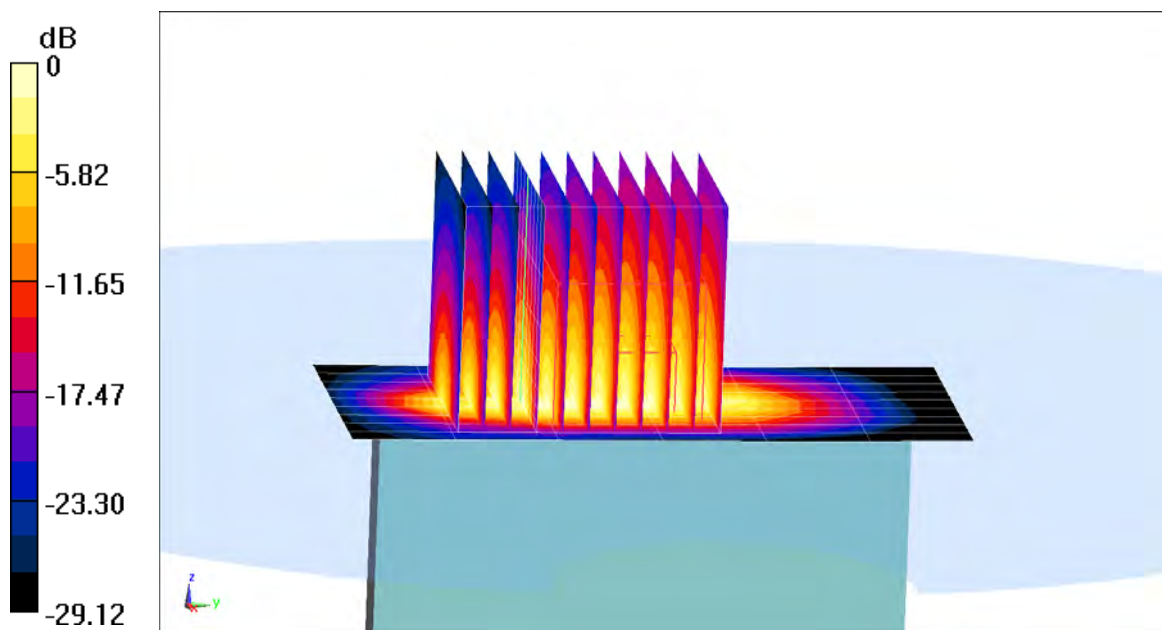
**Area Scan (10x7x1):** Measurement grid: dx=5mm, dy=15mm

**Zoom Scan (10x11x8)/Cube 0:** Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4

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

Peak SAR (extrapolated) = 19.1 W/kg

**SAR(10 g) = 2.27 W/kg**



0 dB = 10.3 W/kg = 10.13 dBW/kg

# PCTEST

**DUT: A3LSMN986U; Type: Portable Handset; Serial: 0697M**

Communication System: UID 0, \_IEEE 802.11n; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5300 \text{ MHz}$ ;  $\sigma = 5.589 \text{ S/m}$ ;  $\epsilon_r = 46.775$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 05-24-2020; Ambient Temp: 22.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7409; ConvF(4.7, 4.7, 4.7) @ 5300 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11n, UNII-2A MIMO, 20 MHz Bandwidth**  
**Phablet SAR, Ch 60, 13 Mbps, Back Side**

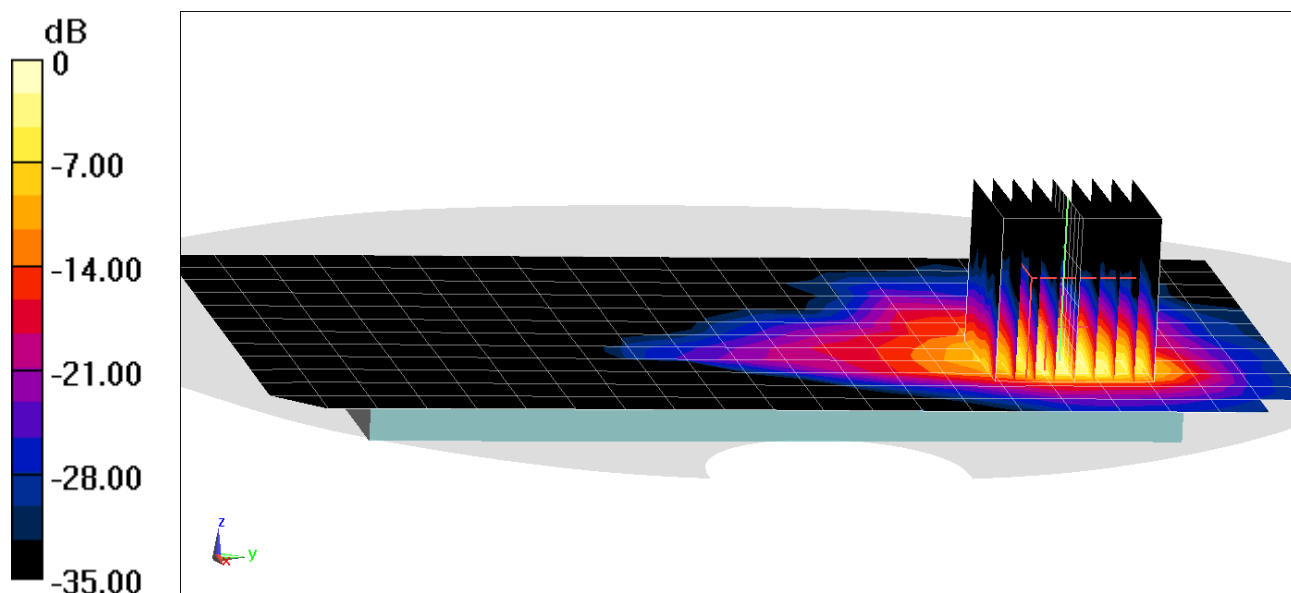
**Area Scan (13x22x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (9x9x8)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Reference Value = 5.639 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 46.1 W/kg

**SAR(10 g) = 2.52 W/kg**



## APPENDIX B: SYSTEM VERIFICATION

# PCTEST

**DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$ ;  $\sigma = 0.871 \text{ S/m}$ ;  $\epsilon_r = 43.529$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/13/2020; Ambient Temp: 21.6°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 750 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 750 MHz System Verification at 23.0 dBm (200 mW)

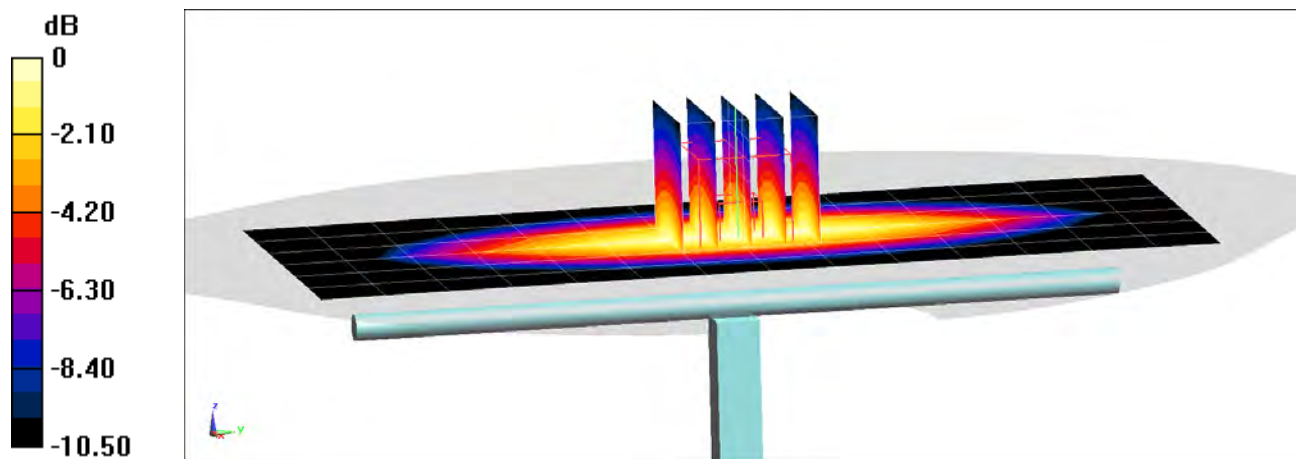
**Area Scan (7x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.49 W/kg

**SAR(1 g) = 1.63 W/kg**

Deviation(1 g) = -7.18%



0 dB = 2.20 W/kg = 3.42 dBW/kg

# PCTEST

**DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$ ;  $\sigma = 0.908 \text{ S/m}$ ;  $\epsilon_r = 42.487$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/17/2020; Ambient Temp: 22.3°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 750 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 750 MHz System Verification at 23.0 dBm (200 mW)

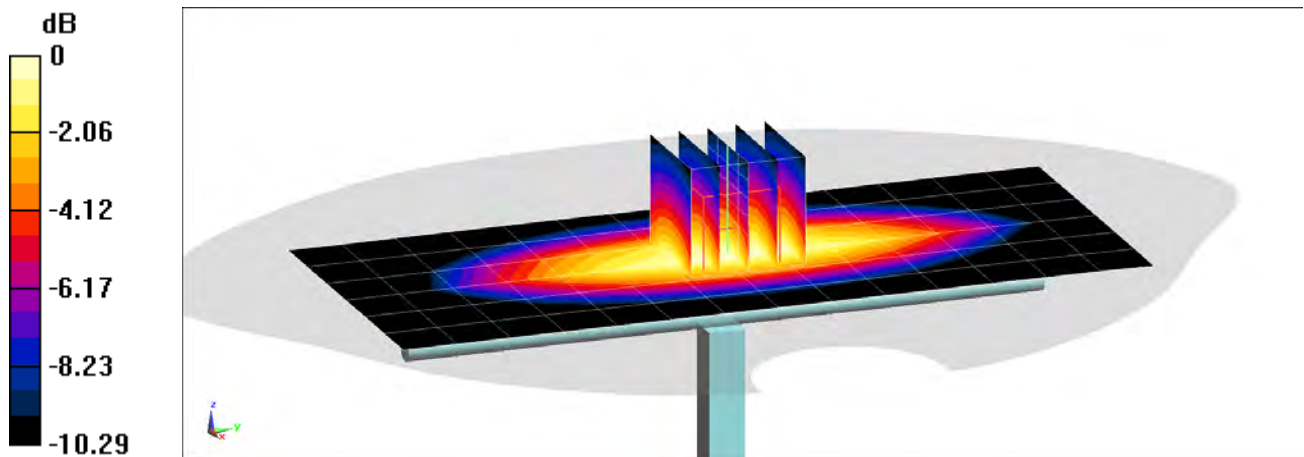
**Area Scan (7x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.87 W/kg

**SAR(1 g) = 1.83 W/kg**

Deviation(1 g) = 4.21%



0 dB = 2.49 W/kg = 3.96 dBW/kg

# PCTEST

**DUT: Dipole 750 MHz; Type: D750V3; Serial: 1003**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$ ;  $\sigma = 0.875 \text{ S/m}$ ;  $\epsilon_r = 41.554$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/20/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN3589; ConvF(8.7, 8.7, 8.7) @ 750 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 750 MHz System Verification at 23.0 dBm (200 mW)

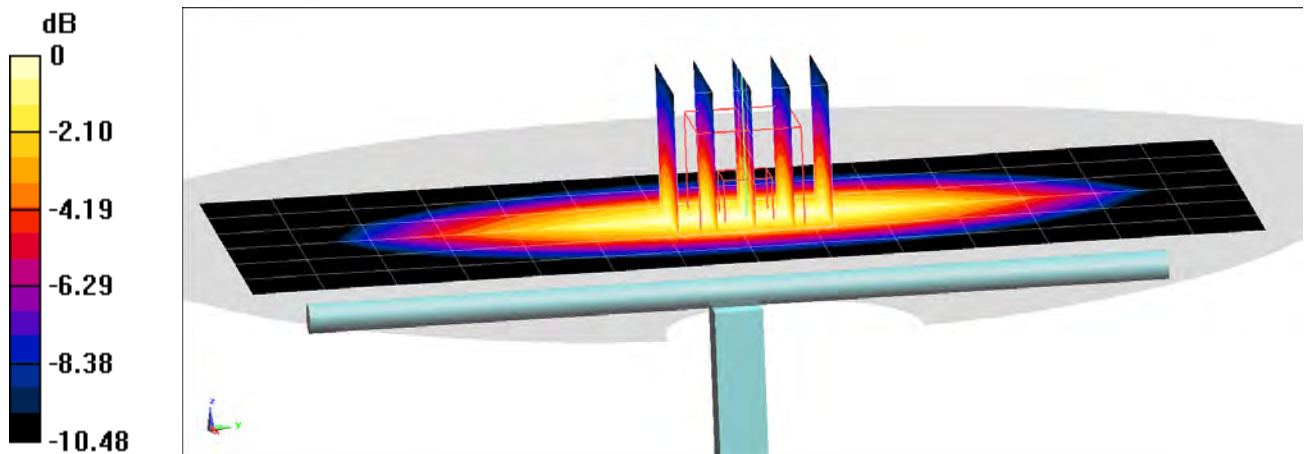
**Area Scan (7x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.58 W/kg

**SAR(1 g) = 1.67 W/kg**

Deviation(1 g) = -4.90%



0 dB = 2.26 W/kg = 3.54 dBW/kg

# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d133**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.873 \text{ S/m}$ ;  $\epsilon_r = 41.945$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.3°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 835 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

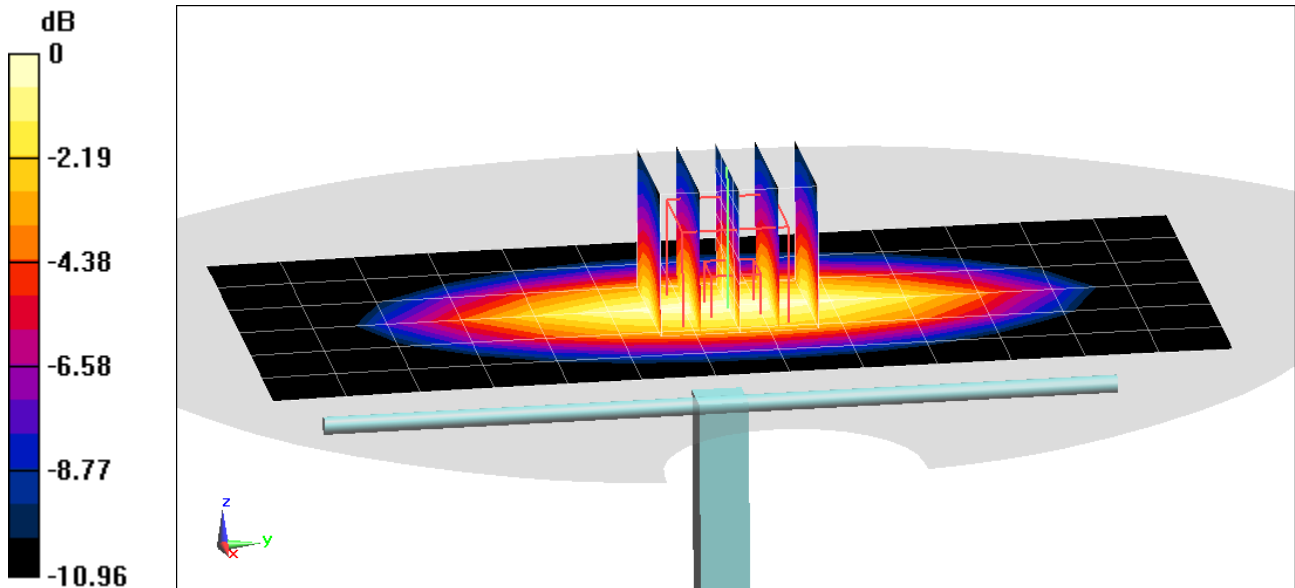
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.92 W/kg

**SAR(1 g) = 1.89 W/kg**

Deviation(1 g) = 0.21%



0 dB = 2.56 W/kg = 4.08 dBW/kg

# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d047**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.885 \text{ S/m}$ ;  $\epsilon_r = 40.622$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/11/2020; Ambient Temp: 21.9°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 835 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

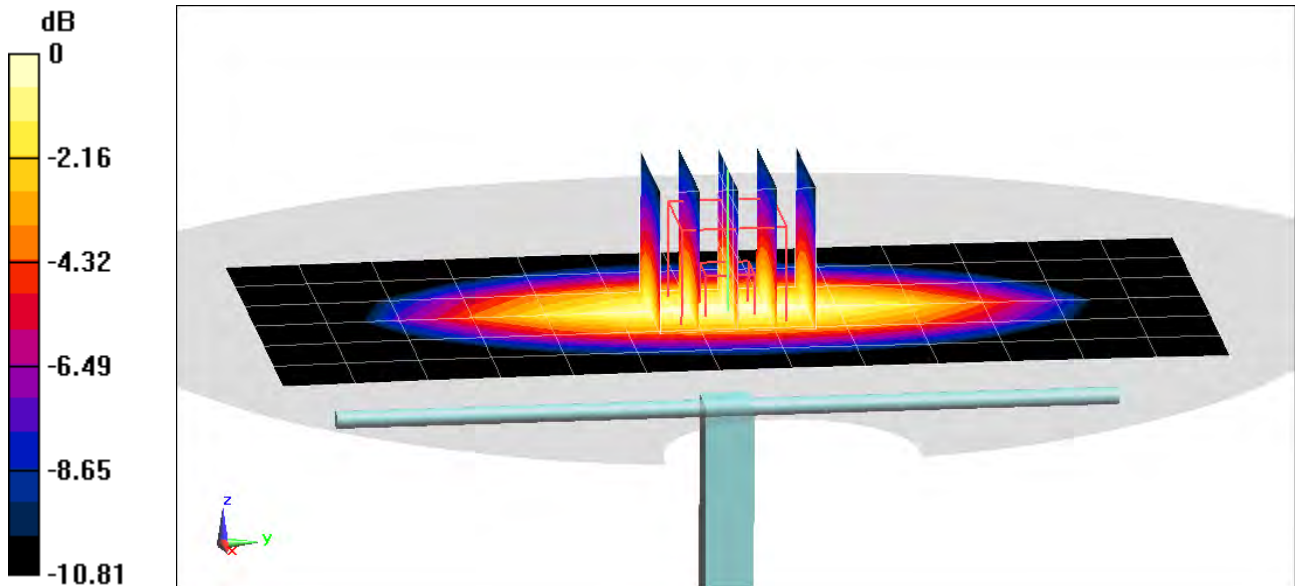
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.83 W/kg

**SAR(1 g) = 1.87 W/kg**

Deviation(1 g) = -0.74%



0 dB = 2.51 W/kg = 4.00 dBW/kg

# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d132**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.906 \text{ S/m}$ ;  $\epsilon_r = 40.974$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/13/2020; Ambient Temp: 21.5°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7551; ConvF(9.88, 9.88, 9.88) @ 835 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1333; Calibrated: 9/17/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

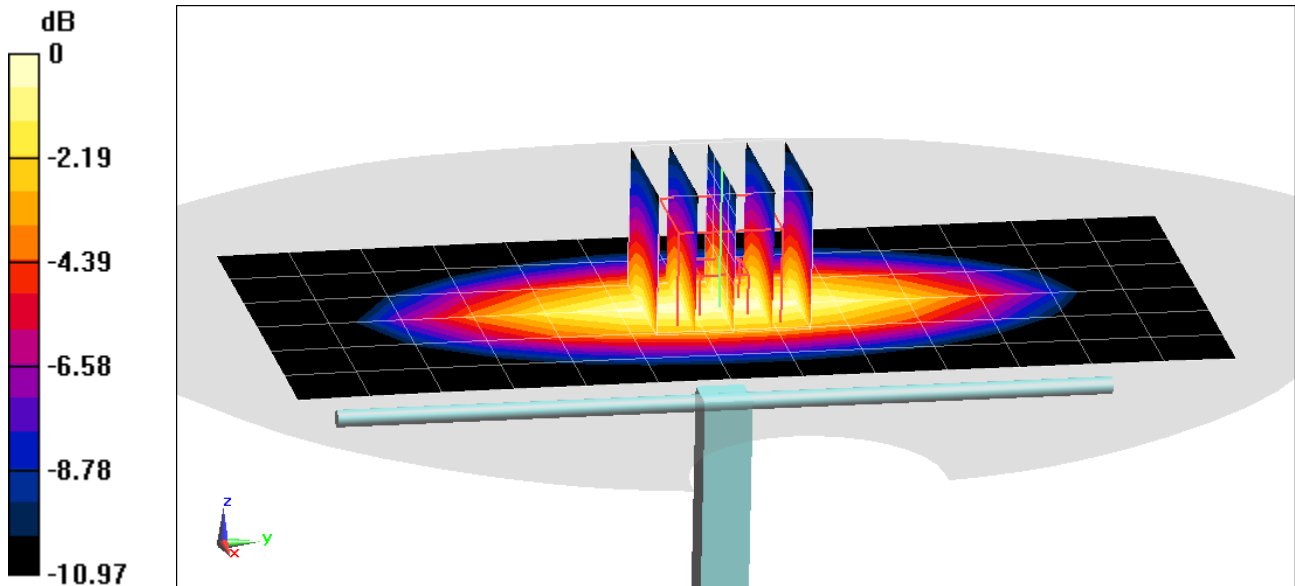
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.98 W/kg

**SAR(1 g) = 1.9 W/kg**

Deviation(1 g) = -1.55%



0 dB = 2.59 W/kg = 4.13 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Head Medium parameters used:

$f = 1750 \text{ MHz}$ ;  $\sigma = 1.338 \text{ S/m}$ ;  $\epsilon_r = 40.62$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2020; Ambient Temp: 23.9°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(8.46, 8.46, 8.46) @ 1750 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

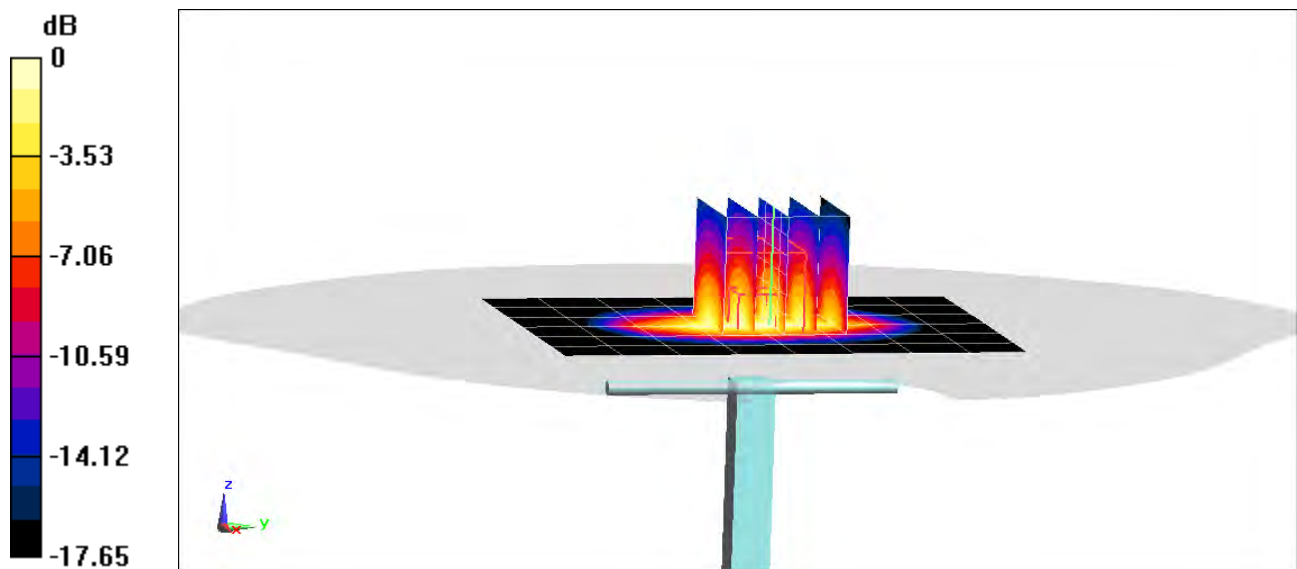
**Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 6.55 W/kg

**SAR(1 g) = 3.61 W/kg**

Deviation(1 g) = -1.10%



0 dB = 5.44 W/kg = 7.36 dBW/kg

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

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

Medium: 1900 Head Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.45 \text{ S/m}$ ;  $\epsilon_r = 40.959$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/11/2020; Ambient Temp: 21.8°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7410; ConvF(8.11, 8.11, 8.11) @ 1900 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1966

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

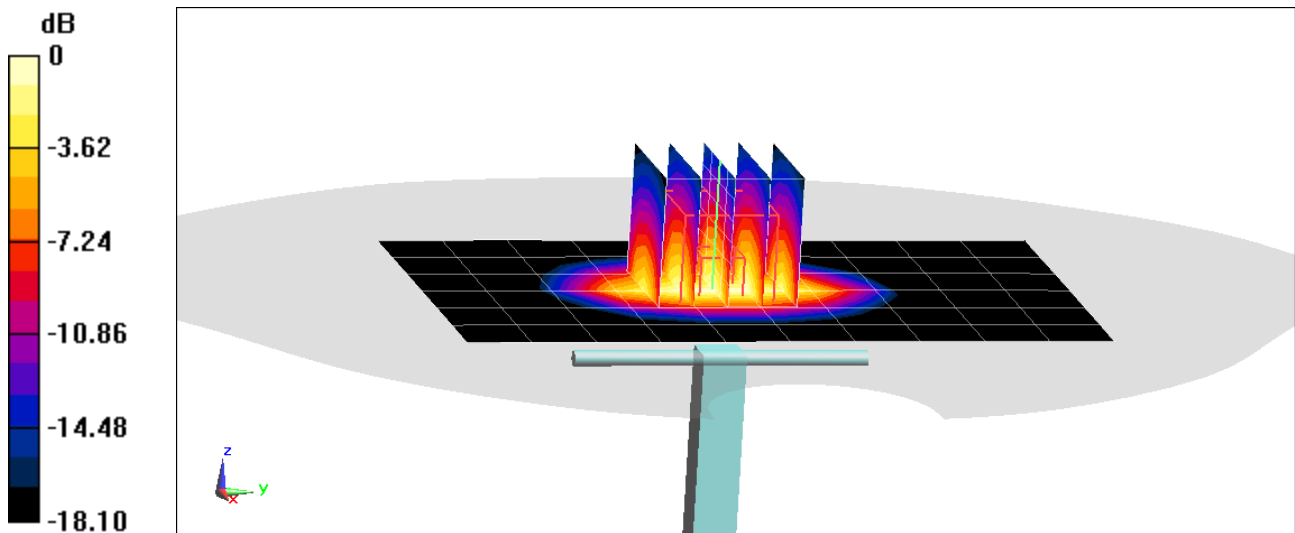
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.95 W/kg

**SAR(1 g) = 4.29 W/kg**

Deviation(1 g) = 7.79%



0 dB = 6.68 W/kg = 8.25 dBW/kg

# PCTEST

**DUT: Dipole 2300 MHz; Type: D2300V2; Serial: 1073**

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

Medium: 2450 Head Medium parameters used:

$f = 2300 \text{ MHz}$ ;  $\sigma = 1.683 \text{ S/m}$ ;  $\epsilon_r = 39.993$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/29/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN3589; ConvF(7.11, 7.11, 7.11) @ 2300 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 2300 MHz System Verification at 20.0 dBm (100 mW)

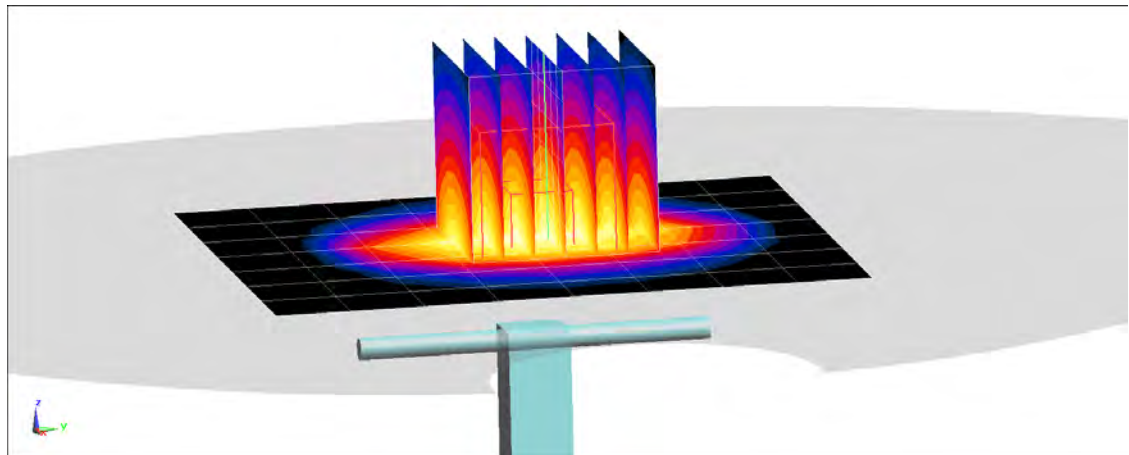
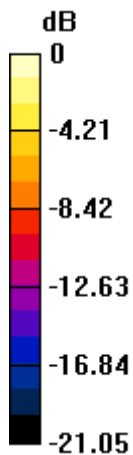
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 9.51 W/kg

**SAR(1 g) = 4.73 W/kg**

Deviation(1 g) = -3.86%



0 dB = 7.73 W/kg = 8.88 dBW/kg

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Head Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 1.799 \text{ S/m}$ ;  $\epsilon_r = 38.404$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.4°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2450 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

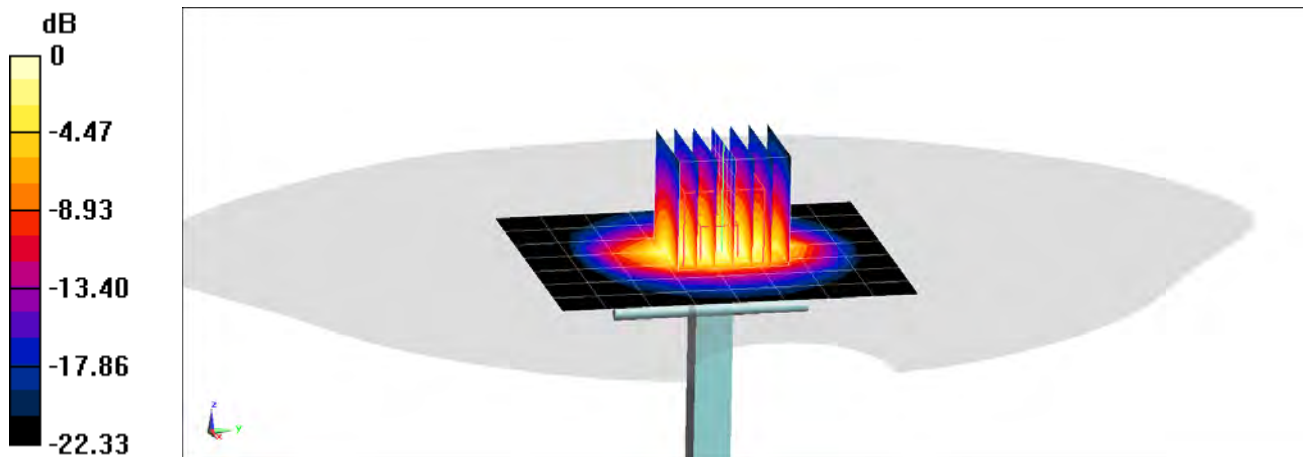
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**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) = 5.24 W/kg**

Deviation(1 g) = -1.32%



0 dB = 8.74 W/kg = 9.42 dBW/kg

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Head Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 1.781 \text{ S/m}$ ;  $\epsilon_r = 40.093$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/24/2020; Ambient Temp: 23.2°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2450 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

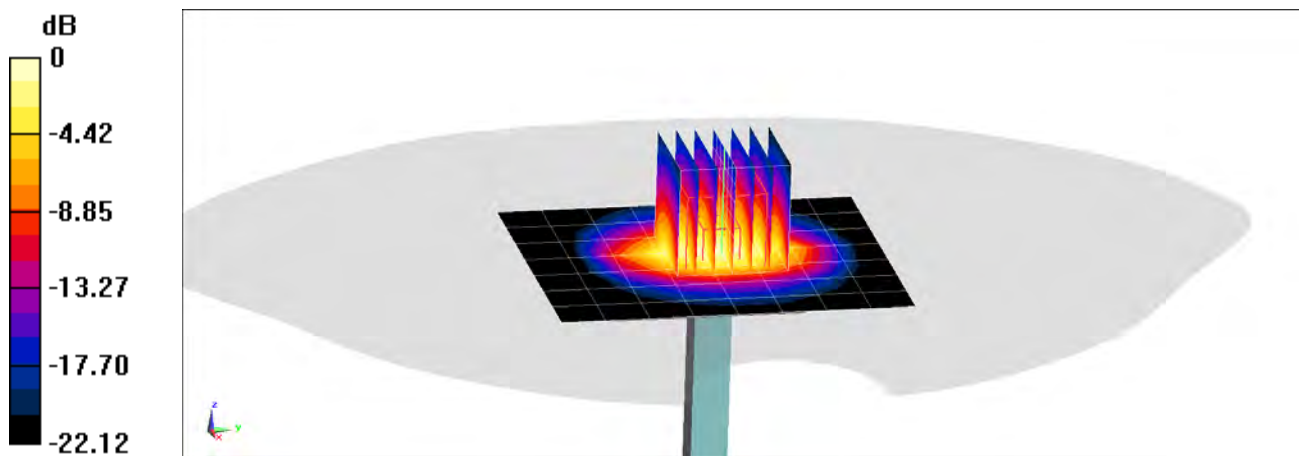
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 11.2 W/kg

**SAR(1 g) = 5.34 W/kg**

Deviation(1 g) = 0.56%



0 dB = 8.91 W/kg = 9.50 dBW/kg

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 797**

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

Medium: 2450 Head Medium parameters used:

$f = 2450$  MHz;  $\sigma = 1.793$  S/m;  $\epsilon_r = 39.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2450 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

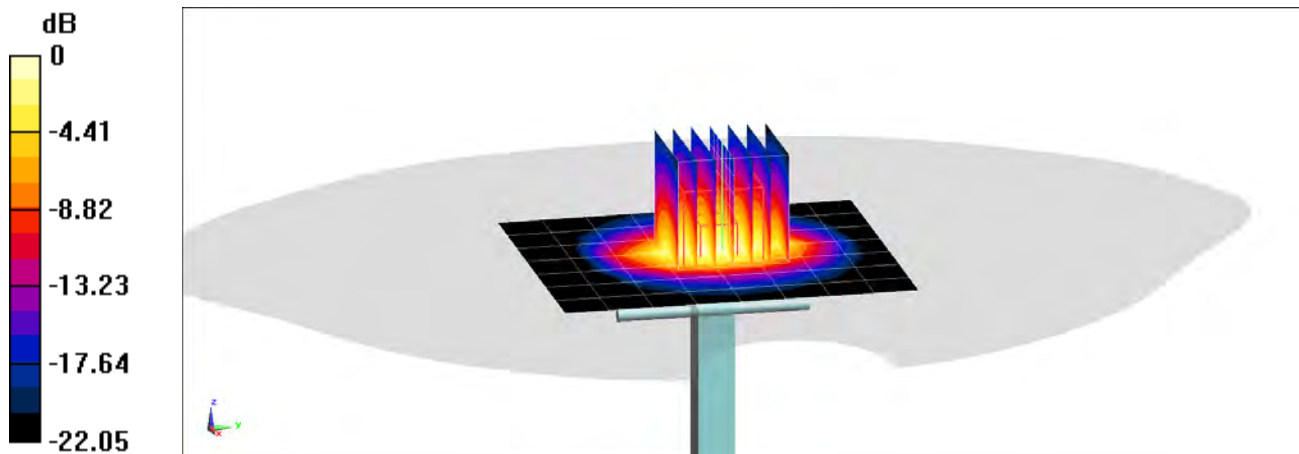
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.5 W/kg

**SAR(1 g) = 5.12 W/kg**

Deviation(1 g) = -2.85%



0 dB = 8.48 W/kg = 9.28 dBW/kg

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Head Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 1.789 \text{ S/m}$ ;  $\epsilon_r = 40.669$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/31/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3589; ConvF(6.85, 6.85, 6.85) @ 2450 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

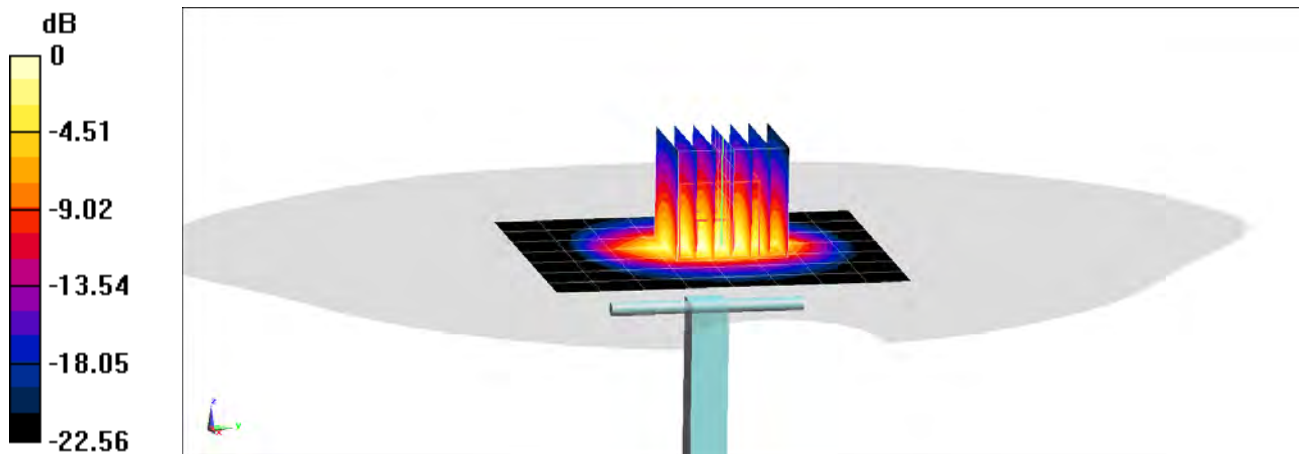
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**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) = 5.21 W/kg**

Deviation(1 g) = -1.88%



0 dB = 8.66 W/kg = 9.38 dBW/kg

# PCTEST

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1064**

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

Medium: 2450 Head Medium parameters used:

$f = 2600$  MHz;  $\sigma = 1.899$  S/m;  $\epsilon_r = 40.473$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/31/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN3589; ConvF(6.6, 6.6, 6.6) @ 2600 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2600 MHz System Verification at 20.0 dBm (100 mW)

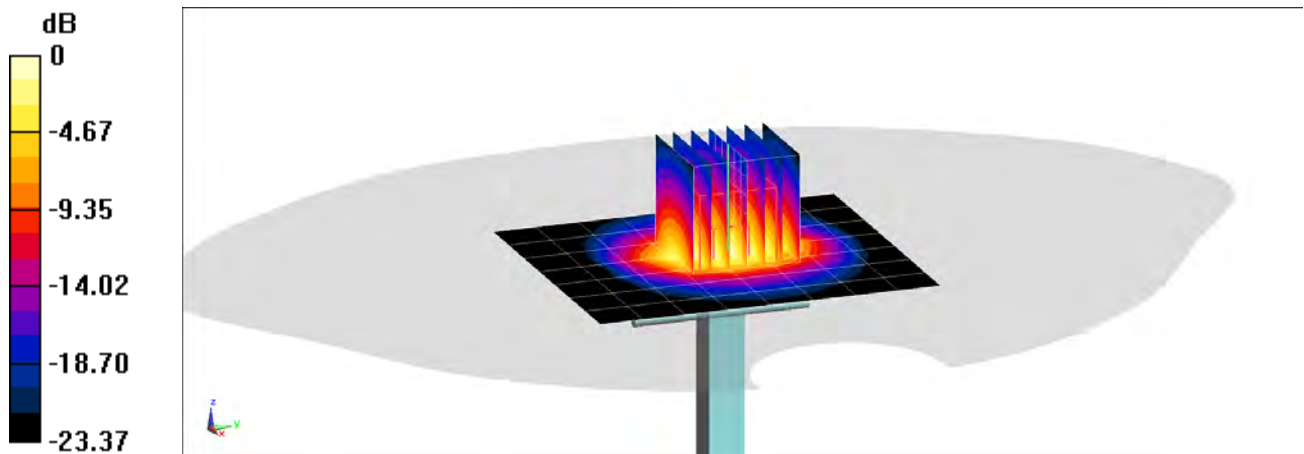
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 12.5 W/kg

**SAR(1 g) = 5.81 W/kg**

Deviation(1 g) = 0.00%



0 dB = 9.95 W/kg = 9.98 dBW/kg

# PCTEST

**DUT: Dipole 3500 MHz; Type: D3500V2; Serial: 1059**

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

Medium: 3600 Head Medium parameters used:

$f = 3500$  MHz;  $\sigma = 2.918$  S/m;  $\epsilon_r = 39.665$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/01/2020; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(7.3, 7.3, 7.3) @ 3500 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 left 20; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 3500 MHz System Verification at 20.0 dBm (100 mW)

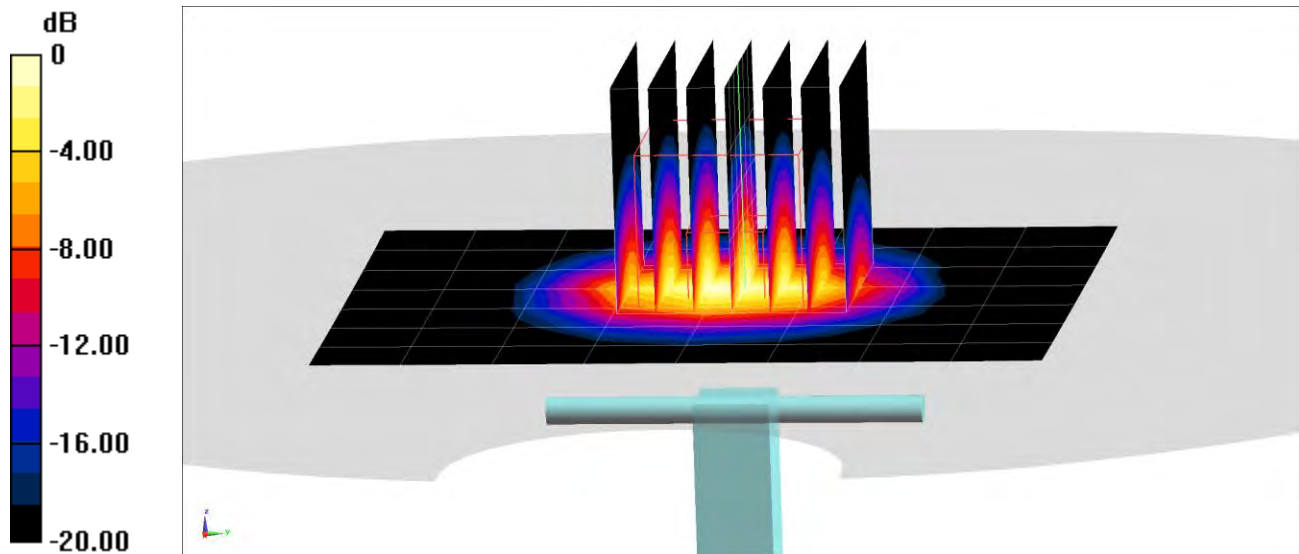
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(1 g) = 6.19 W/kg**

Deviation(1 g) = -4.18%



0 dB = 12.1 W/kg = 10.83 dBW/kg

# PCTEST

**DUT: Dipole 3700 MHz; Type: D3700V2; Serial: 1018**

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

Medium: 3600 Head Medium parameters used:

$f = 3700 \text{ MHz}$ ;  $\sigma = 3.084 \text{ S/m}$ ;  $\epsilon_r = 39.355$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/01/2020; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(7.2, 7.2, 7.2) @ 3700 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 left 20; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 3700 MHz System Verification at 20.0 dBm (100 mW)

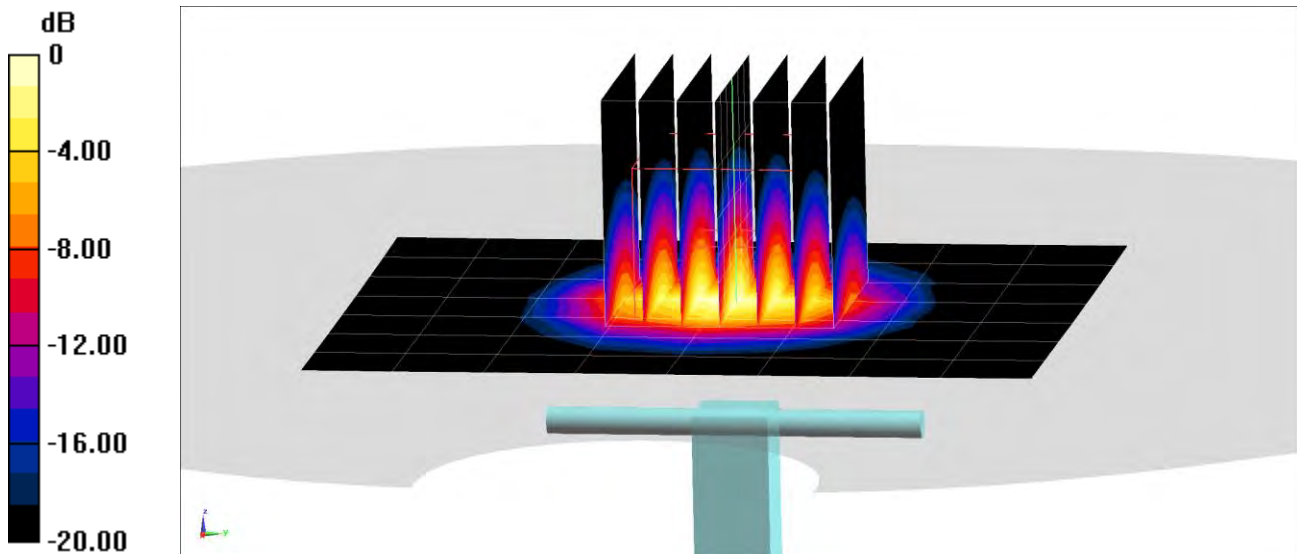
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.7 W/kg

**SAR(1 g) = 6.15 W/kg**

Deviation(1 g) = -6.53%



# PCTEST

**DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1191**

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

Medium: 5200-5800 Head Medium parameters used:

$f = 5250 \text{ MHz}$ ;  $\sigma = 4.667 \text{ S/m}$ ;  $\epsilon_r = 34.962$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/28/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(5.5, 5.5, 5.5) @ 5250 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 5250 MHz System Verification at 17.0 dBm (50 mW)

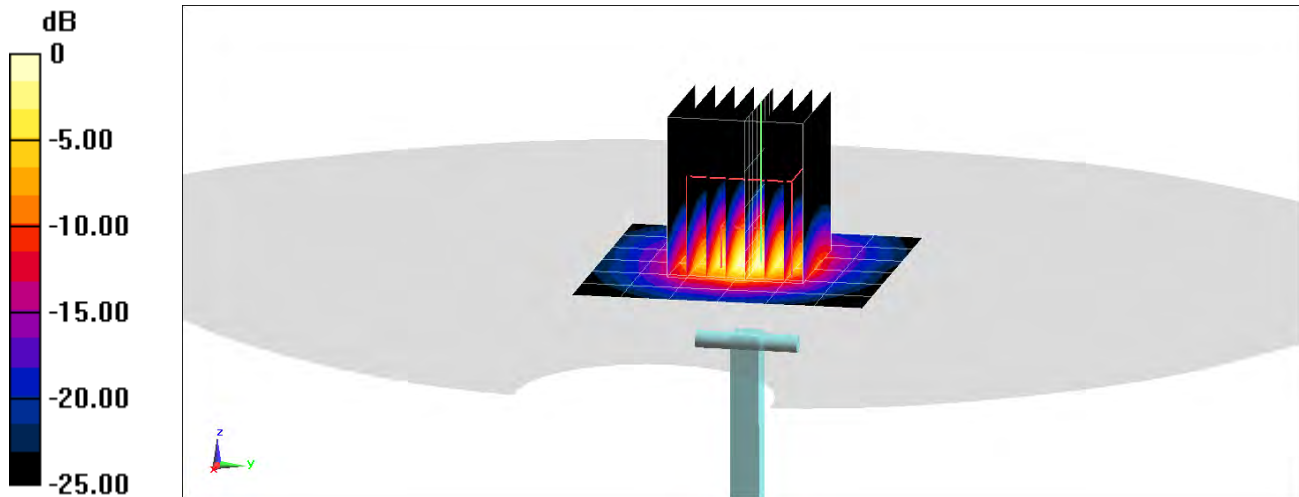
**Area Scan (7x7x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Peak SAR (extrapolated) = 14.7 W/kg

**SAR(1 g) = 3.73 W/kg**

Deviation(1 g) = -7.67%



0 dB = 8.96 W/kg = 9.52 dBW/kg

# PCTEST

**DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1191**

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head Medium parameters used:

$f = 5600$  MHz;  $\sigma = 5.063$  S/m;  $\epsilon_r = 34.248$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/28/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(4.93, 4.93, 4.93) @ 5600 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 5600 MHz System Verification at 17.0 dBm (50 mW)

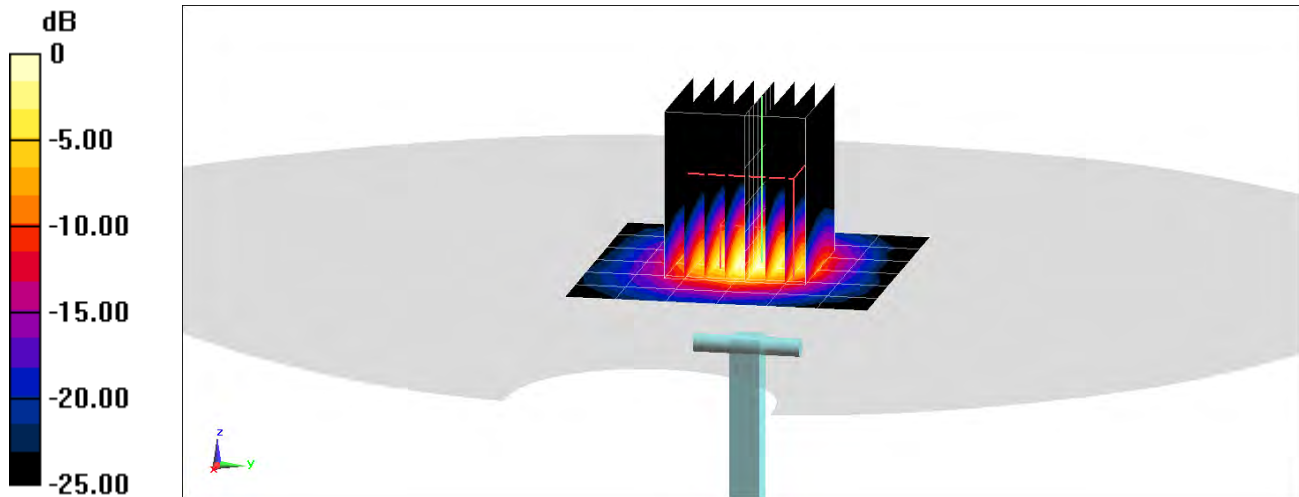
**Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 3.93 W/kg**

Deviation(1 g) = -4.96%



0 dB = 9.55 W/kg = 9.80 dBW/kg

# PCTEST

**DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1191**

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

Medium: 5200-5800 Head Medium parameters used:

$f = 5750 \text{ MHz}$ ;  $\sigma = 5.24 \text{ S/m}$ ;  $\epsilon_r = 34.024$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/28/2020; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7357; ConvF(5.05, 5.05, 5.05) @ 5750 MHz; Calibrated: 4/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1407; Calibrated: 4/15/2020

Phantom: Twin-SAM V5.0 Left 20; Type: QD 000 P40 CD; Serial: 1715

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 5750 MHz System Verification at 17.0 dBm (50 mW)

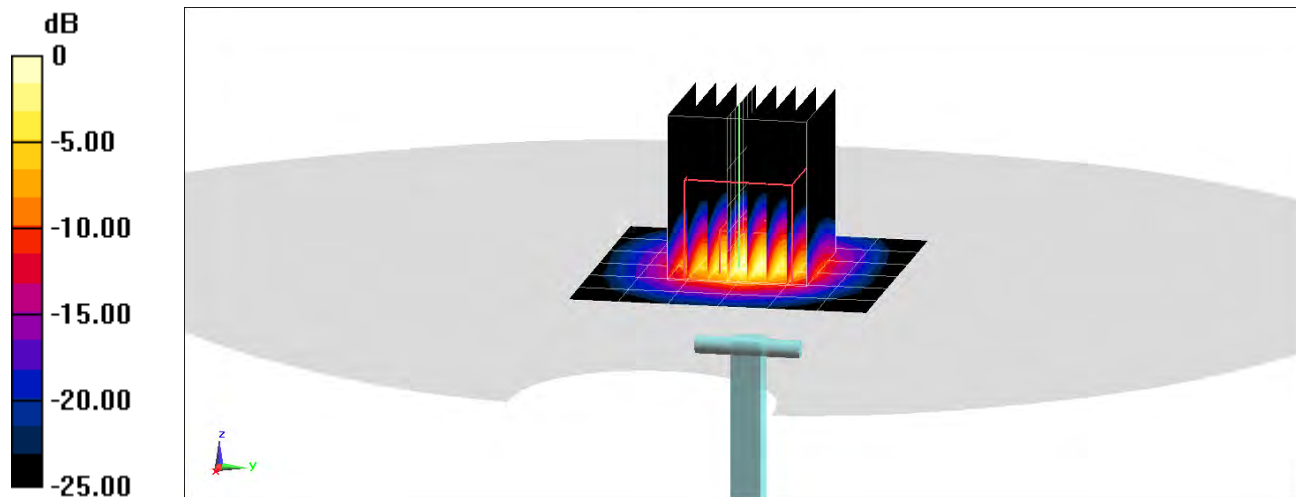
**Area Scan (7x7x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ ; Graded Ratio: 1.4

Peak SAR (extrapolated) = 16.9 W/kg

**SAR(1 g) = 3.71 W/kg**

Deviation(1 g) = -7.48%



0 dB = 9.35 W/kg = 9.71 dBW/kg

# PCTEST

**DUT: Dipole 750 MHz; Type: D750V3; Serial: 1161**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$ ;  $\sigma = 0.967 \text{ S/m}$ ;  $\epsilon_r = 53.449$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/22/2020; Ambient Temp: 21.2°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 750 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 750 MHz System Verification at 23.0 dBm (200 mW)

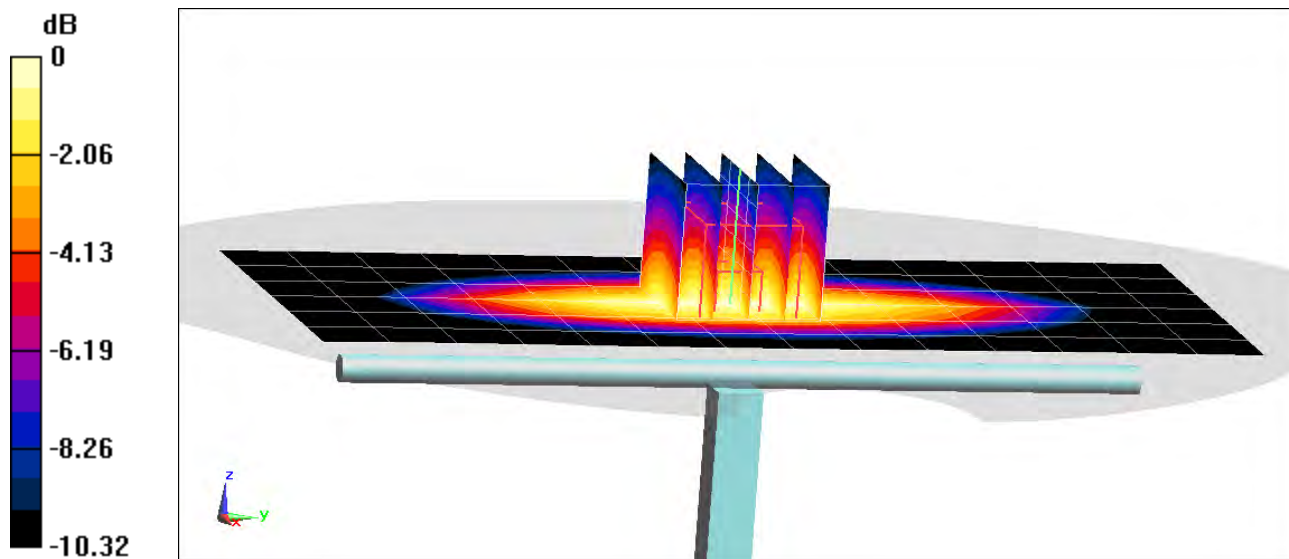
**Area Scan (7x15x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 2.73 W/kg

**SAR(1 g) = 1.82 W/kg**

Deviation(1 g) = 7.95%



0 dB = 2.43 W/kg = 3.86 dBW/kg

# PCTEST

**DUT: Dipole 750 MHz; Type: D750V3; Serial: 1161**

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body Medium parameters used:

$f = 750 \text{ MHz}$ ;  $\sigma = 0.957 \text{ S/m}$ ;  $\epsilon_r = 53.587$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 04/27/2020; Ambient Temp: 21.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7410; ConvF(10.01, 10.01, 10.01) @ 750 MHz; Calibrated: 7/16/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1322; Calibrated: 7/11/2019

Phantom: Twin-SAM V5.0; Type: QD 000 P40 CD; Serial: 1630

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 750 MHz System Verification at 23.0 dBm (200 mW)

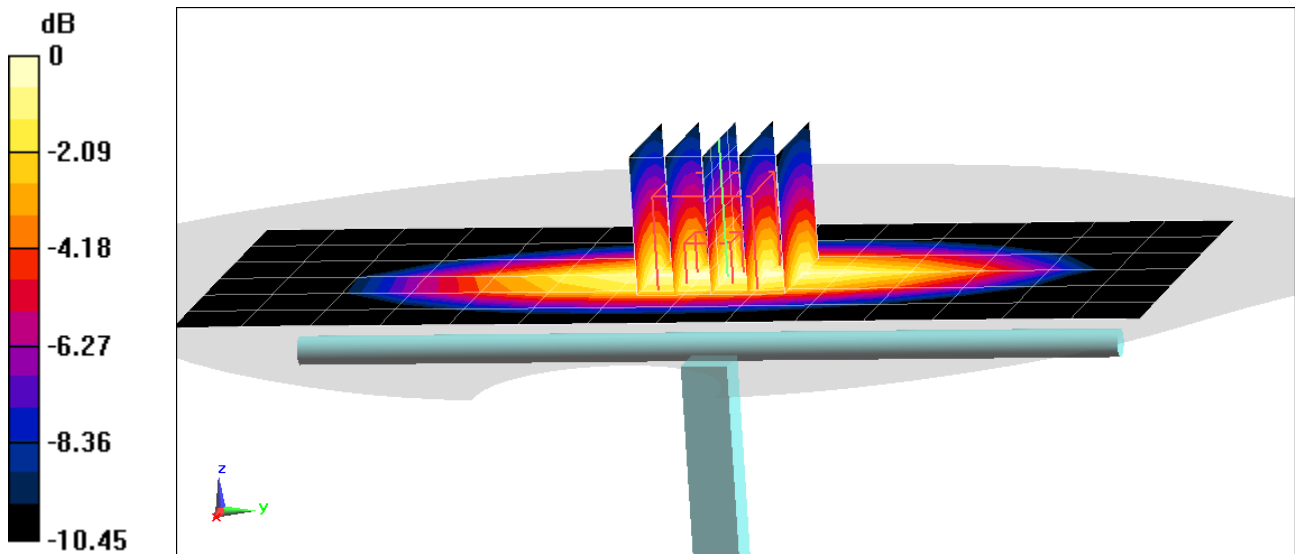
**Area Scan (7x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.60 W/kg

**SAR(1 g) = 1.75 W/kg**

Deviation(1 g) = 3.80%



0 dB = 2.32 W/kg = 3.65 dBW/kg

# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d133**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.944 \text{ S/m}$ ;  $\epsilon_r = 53.429$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/06/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 835 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

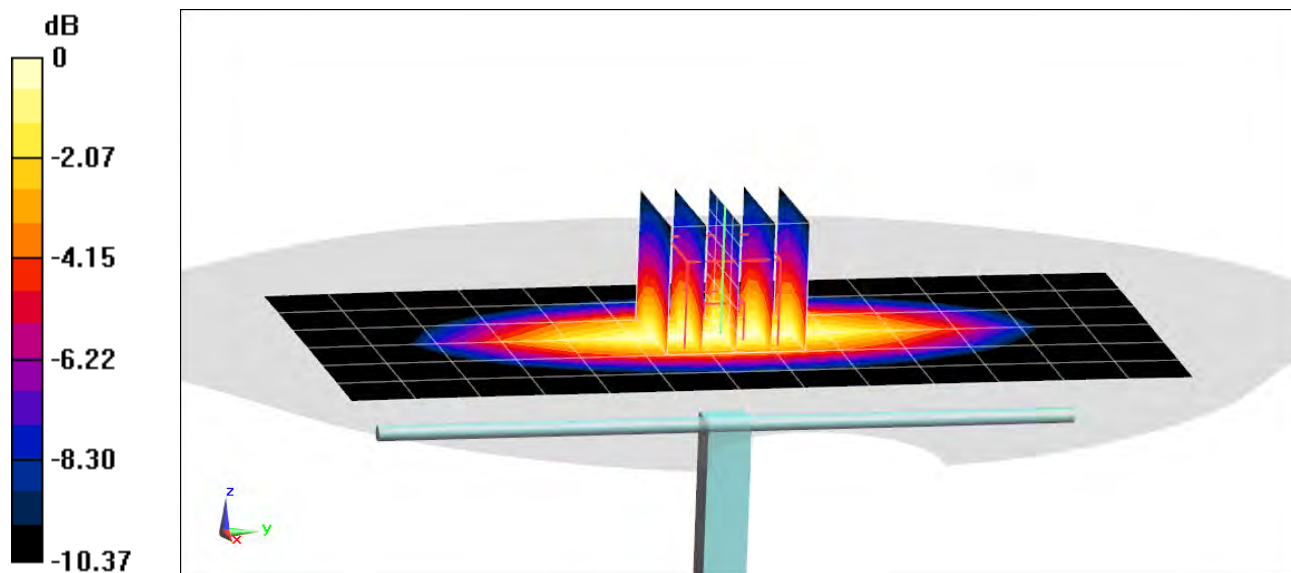
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.92 W/kg

**SAR(1 g) = 1.93 W/kg**

Deviation(1 g) = -1.03%



# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d133**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.948 \text{ S/m}$ ;  $\epsilon_r = 52.764$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/08/2020; Ambient Temp: 22.6°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7570; ConvF(9.83, 9.83, 9.83) @ 835 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn859; Calibrated: 12/18/2019

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1964

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## **835 MHz System Verification at 23.0 dBm (200 mW)**

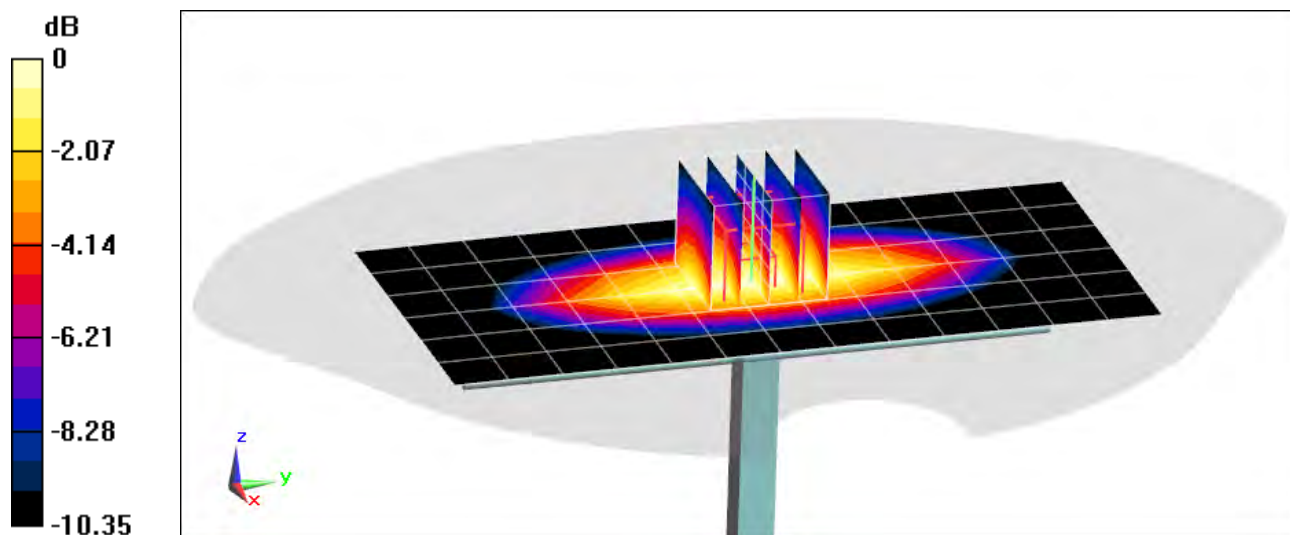
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.93 W/kg

**SAR(1 g) = 1.93 W/kg**

Deviation(1 g) = -1.03%



0 dB = 2.58 W/kg = 4.12 dBW/kg

# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d047**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.965 \text{ S/m}$ ;  $\epsilon_r = 53.068$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/11/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 835 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

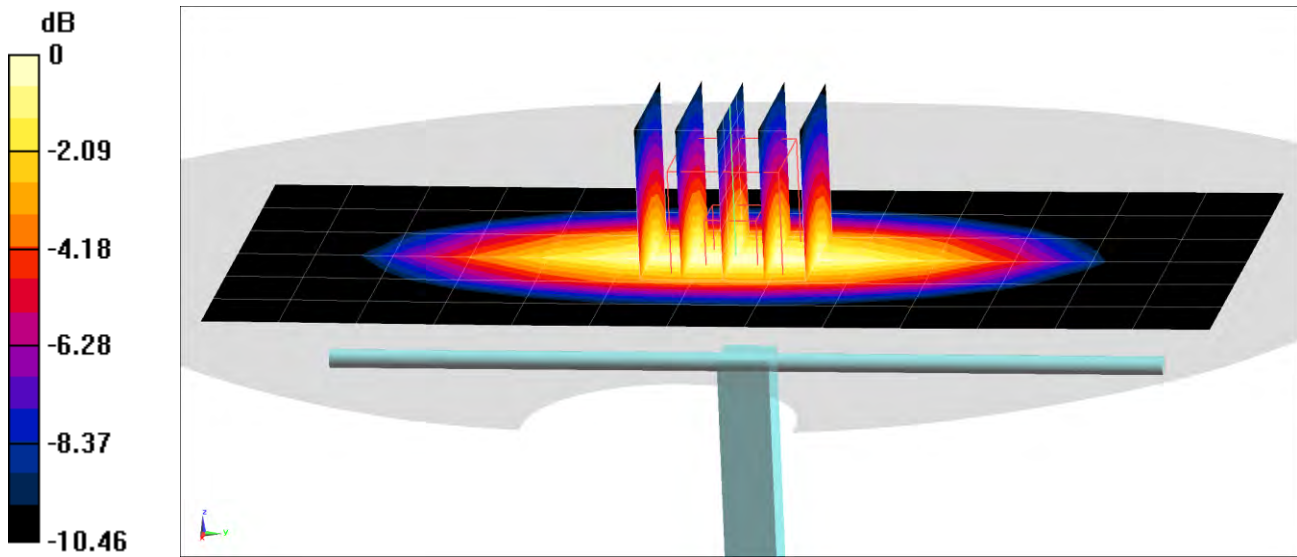
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.90 W/kg

**SAR(1 g) = 1.91 W/kg**

Deviation(1 g) = 0.84%



0 dB = 2.56 W/kg = 4.08 dBW/kg

# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d047**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.961 \text{ S/m}$ ;  $\epsilon_r = 54.496$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/13/2020; Ambient Temp: 22.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 835 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

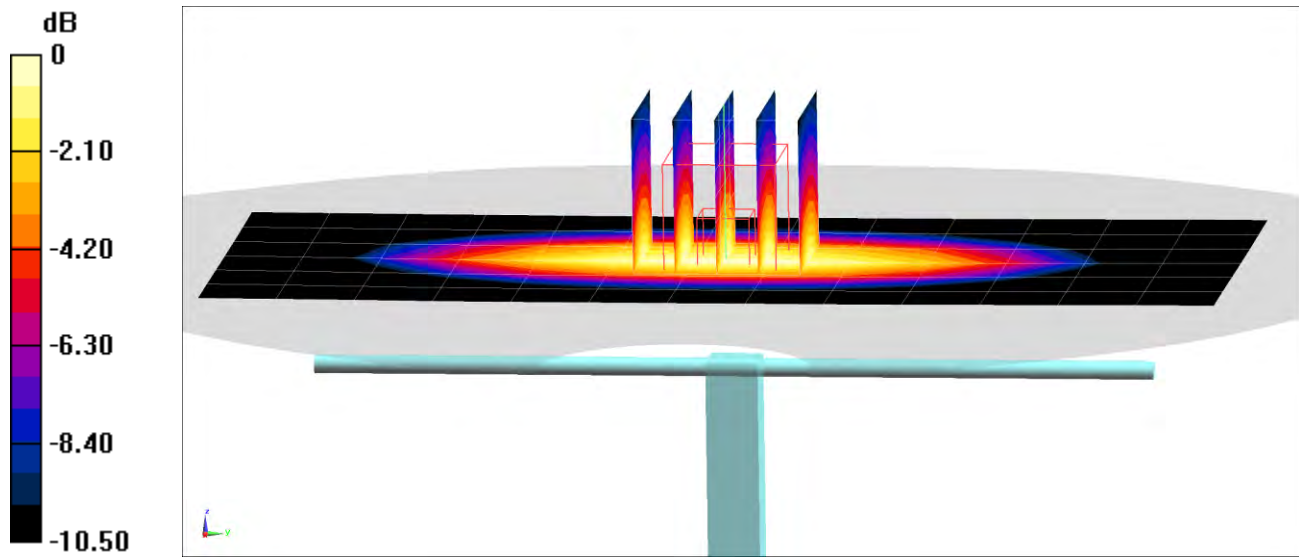
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.88 W/kg

**SAR(1 g) = 1.91 W/kg**

Deviation(1 g) = 0.84%



# PCTEST

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d047**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body Medium parameters used:

$f = 835 \text{ MHz}$ ;  $\sigma = 0.96 \text{ S/m}$ ;  $\epsilon_r = 54.12$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 05/18/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7488; ConvF(11.04, 11.04, 11.04) @ 835 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V4.0 Left 30; Type: QD 000 P40 CC; Serial: 1687

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 835 MHz System Verification at 23.0 dBm (200 mW)

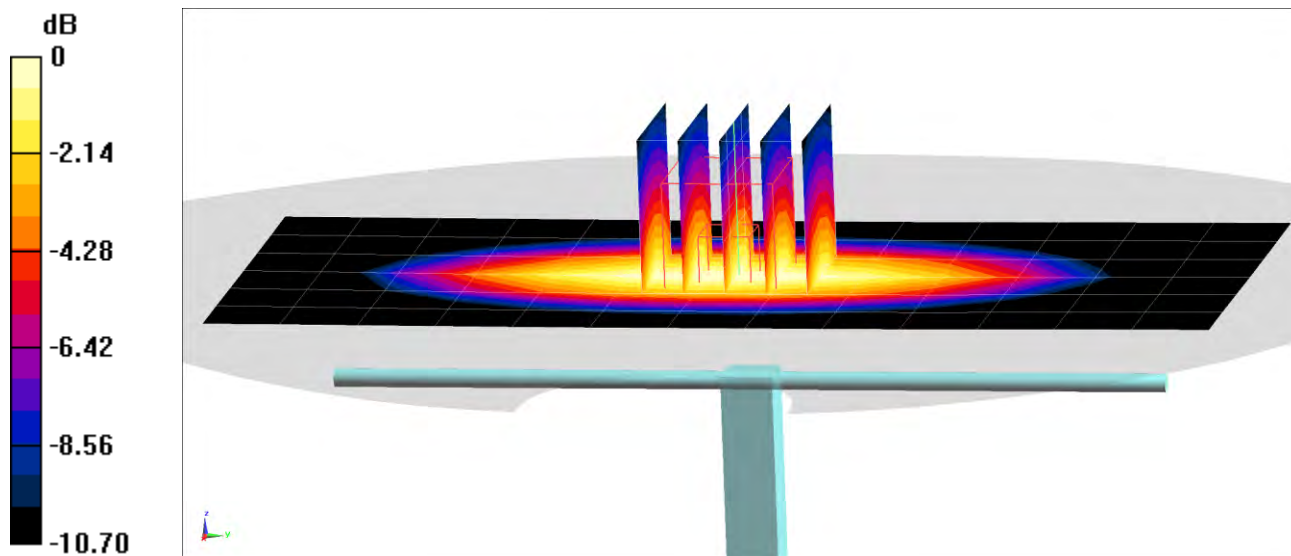
**Area Scan (7x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 2.95 W/kg

**SAR(1 g) = 1.9 W/kg**

Deviation(1 g) = 0.32%



0 dB = 2.57 W/kg = 4.10 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$ ;  $\sigma = 1.532 \text{ S/m}$ ;  $\epsilon_r = 51.86$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 04/29/2020; Ambient Temp: 23.1°C; Tissue Temp: 22.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

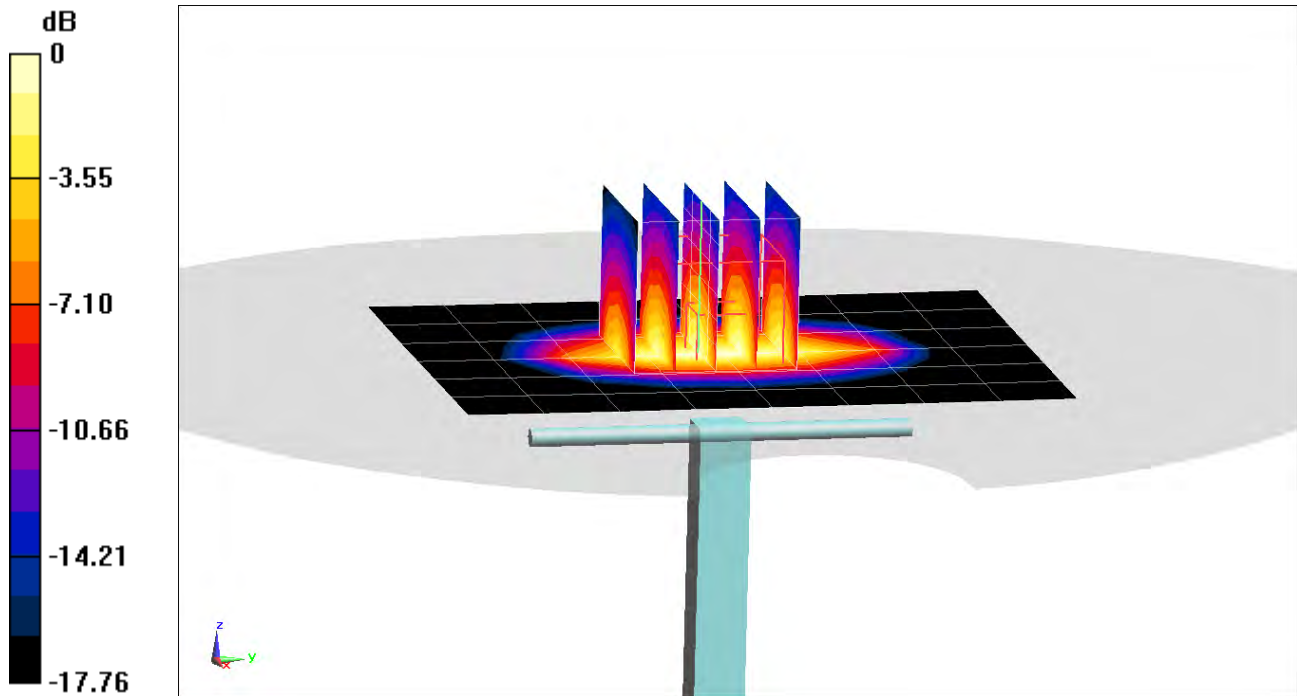
**Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.82 W/kg

**SAR(1 g) = 3.82 W/kg**

Deviation(1 g) = 4.37%



0 dB = 5.74 W/kg = 7.59 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$ ;  $\sigma = 1.523 \text{ S/m}$ ;  $\epsilon_r = 52.088$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

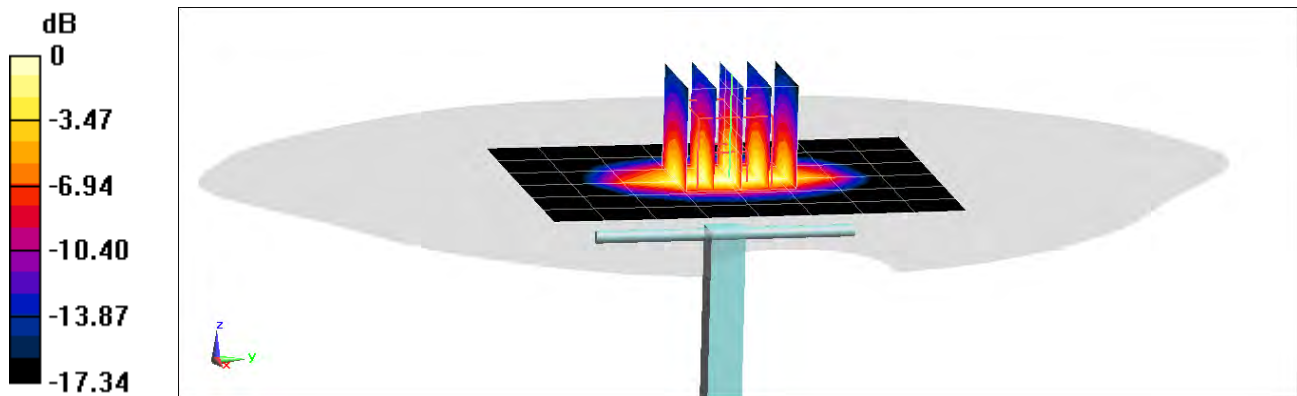
**Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.97 W/kg

**SAR(1 g) = 3.88 W/kg**

Deviation(1 g) = 6.01%



0 dB = 5.95 W/kg = 7.75 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$ ;  $\sigma = 1.498 \text{ S/m}$ ;  $\epsilon_r = 52.627$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.1°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

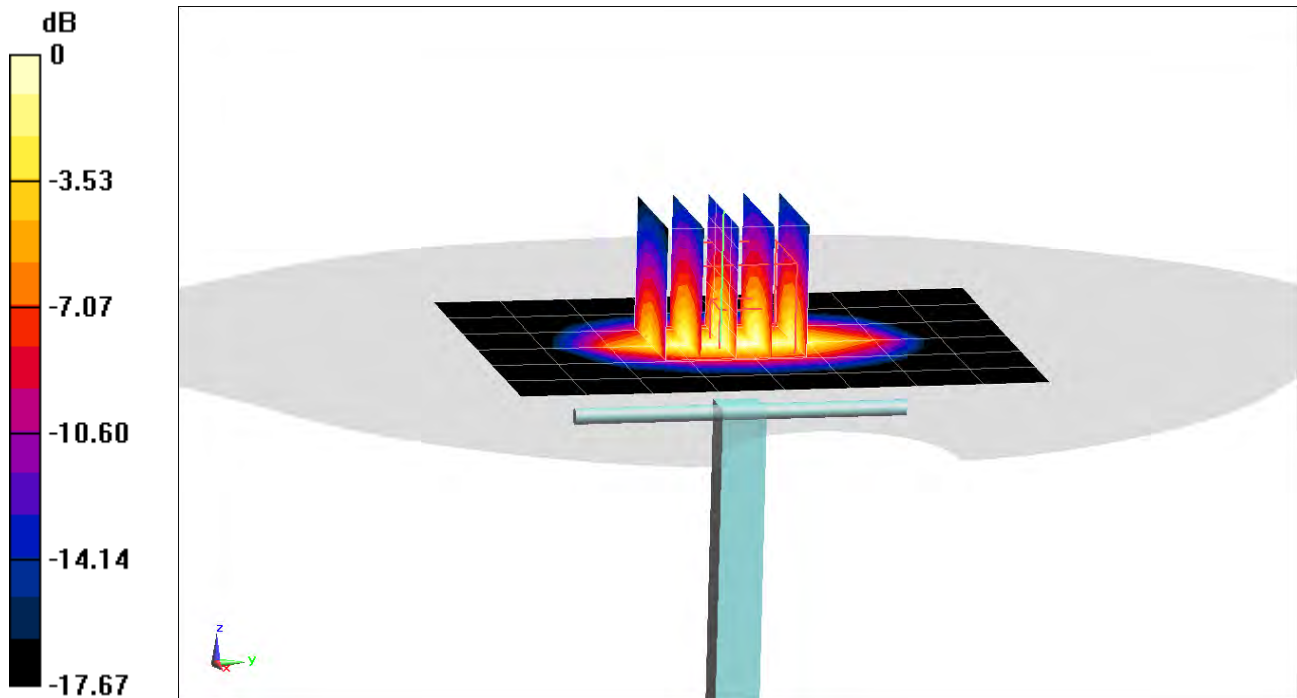
**Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.36 W/kg

**SAR(1 g) = 3.51 W/kg**

Deviation(1 g) = -4.10%



0 dB = 5.31 W/kg = 7.25 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1150**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$ ;  $\sigma = 1.513 \text{ S/m}$ ;  $\epsilon_r = 53.115$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/14/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

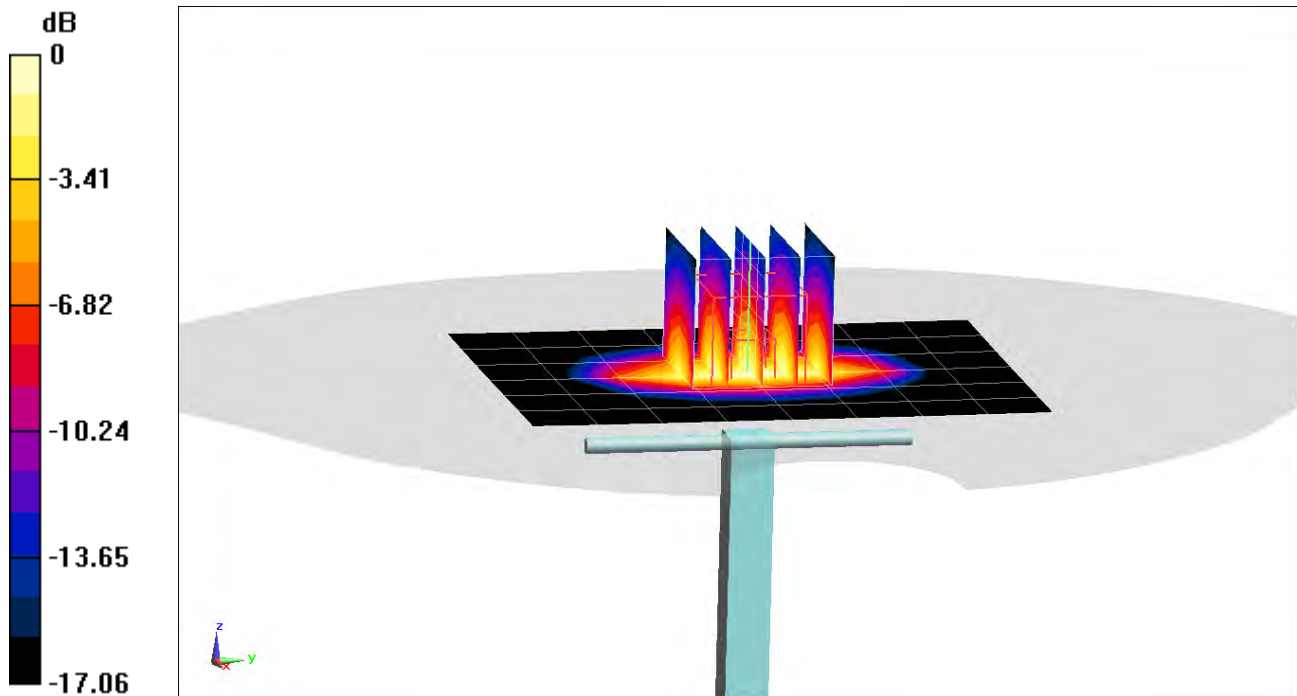
**Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.83 W/kg

**SAR(1 g) = 3.75 W/kg**

Deviation(1 g) = 2.46%



0 dB = 5.79 W/kg = 7.63 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1765V2; Serial: 1008**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$ ;  $\sigma = 1.544 \text{ S/m}$ ;  $\epsilon_r = 52.389$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/20/2020; Ambient Temp: 21.4°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

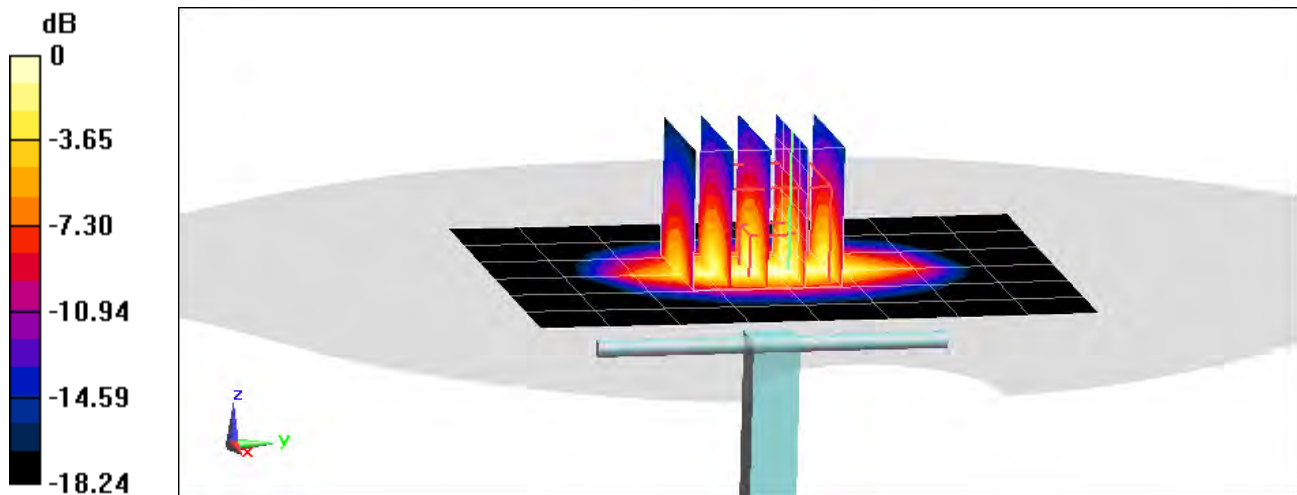
**Area Scan (7x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 6.83 W/kg

**SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.01 W/kg**

Deviation(1 g) = 2.41%; Deviation(10 g) = 1.01%



# PCTEST

**DUT: Dipole 1750 MHz; Type: D1765V2; Serial: 1008**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750$  MHz;  $\sigma = 1.513$  S/m;  $\epsilon_r = 52.524$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/29/2020; Ambient Temp: 21.6°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

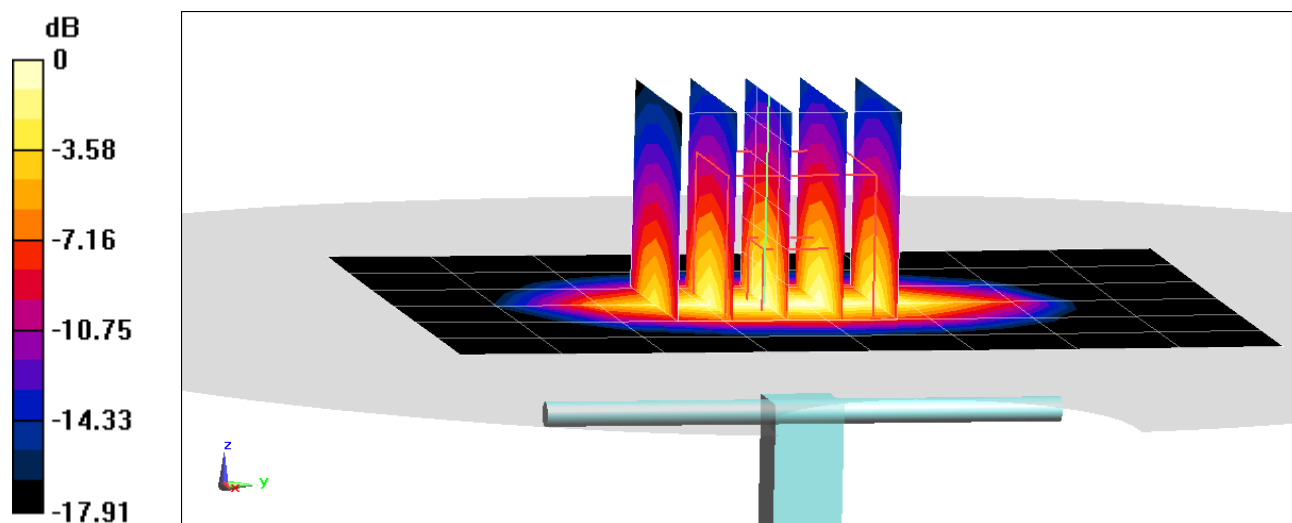
**Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.77 W/kg

**SAR(10 g) = 1.94 W/kg;**

Deviation(10 g) = -2.51%



0 dB = 5.64 W/kg = 7.51 dBW/kg

# PCTEST

**DUT: Dipole 1750 MHz; Type: D1765V2; Serial: 1008**

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750$  MHz;  $\sigma = 1.546$  S/m;  $\epsilon_r = 53.012$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/01/2020; Ambient Temp: 21.4°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7527; ConvF(8.1, 8.1, 8.1) @ 1750 MHz; Calibrated: 3/17/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1368; Calibrated: 3/12/2020

Phantom: Right Back Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1692

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1750 MHz System Verification at 20.0 dBm (100 mW)

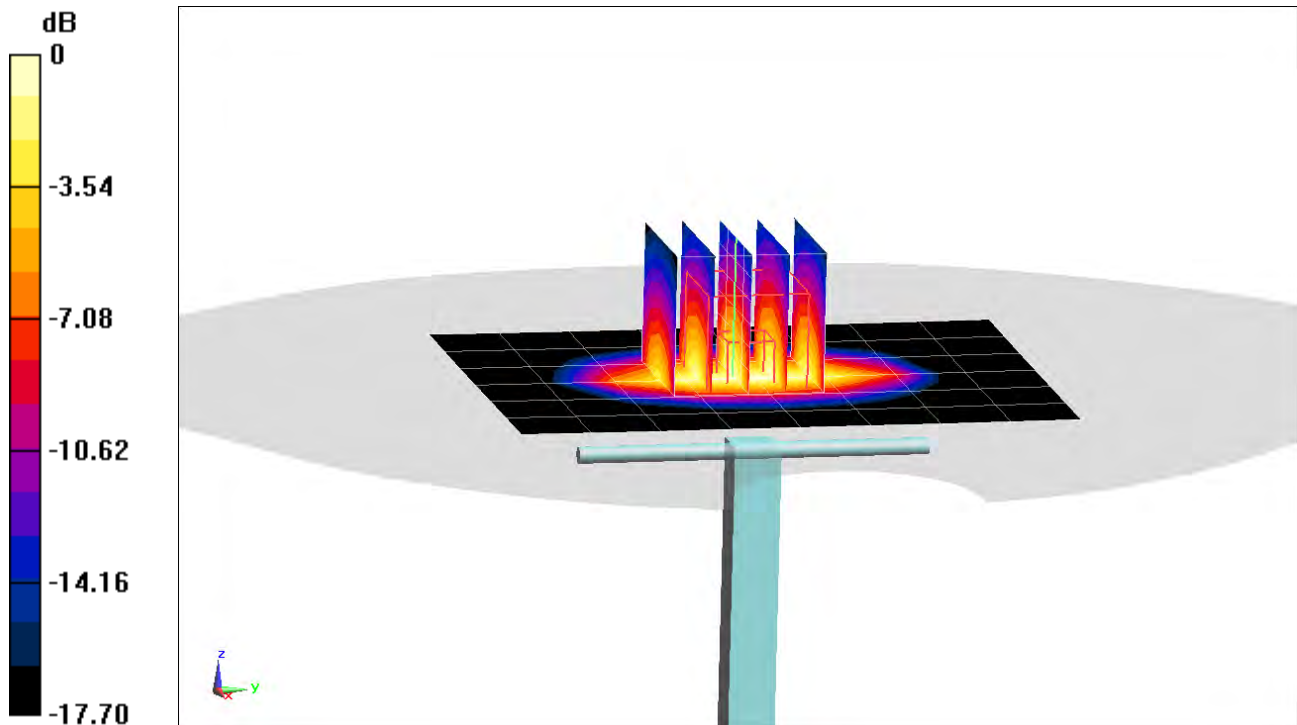
**Area Scan (7x9x1):** Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 7.17 W/kg

**SAR(1 g) = 4.01 W/kg; SAR(10 g) = 2.11 W/kg**

Deviation(1 g) = 7.22%; Deviation(10 g) = 6.03%



0 dB = 6.07 W/kg = 7.83 dBW/kg

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.573 \text{ S/m}$ ;  $\epsilon_r = 55.175$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/03/2020; Ambient Temp: 21.1°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

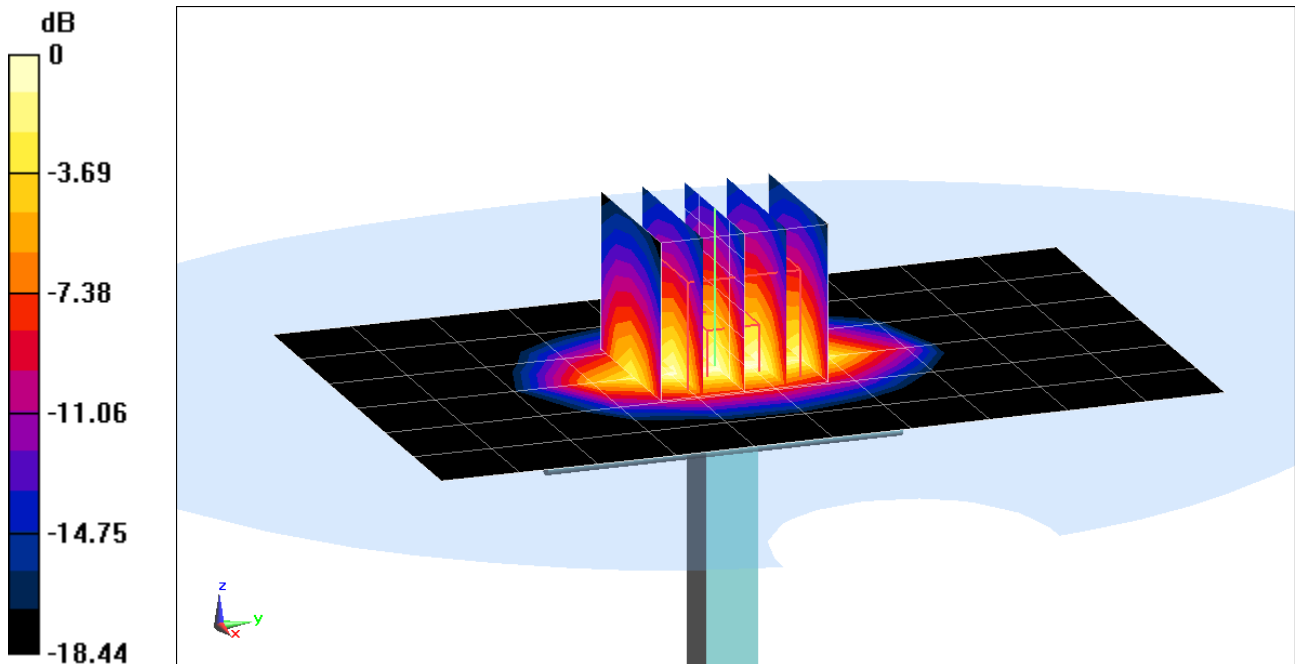
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.73 W/kg

**SAR(1 g) = 4.21 W/kg**

Deviation(1 g) = 7.40%



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

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d148**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.578 \text{ S/m}$ ;  $\epsilon_r = 52.713$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/06/2020; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1900 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

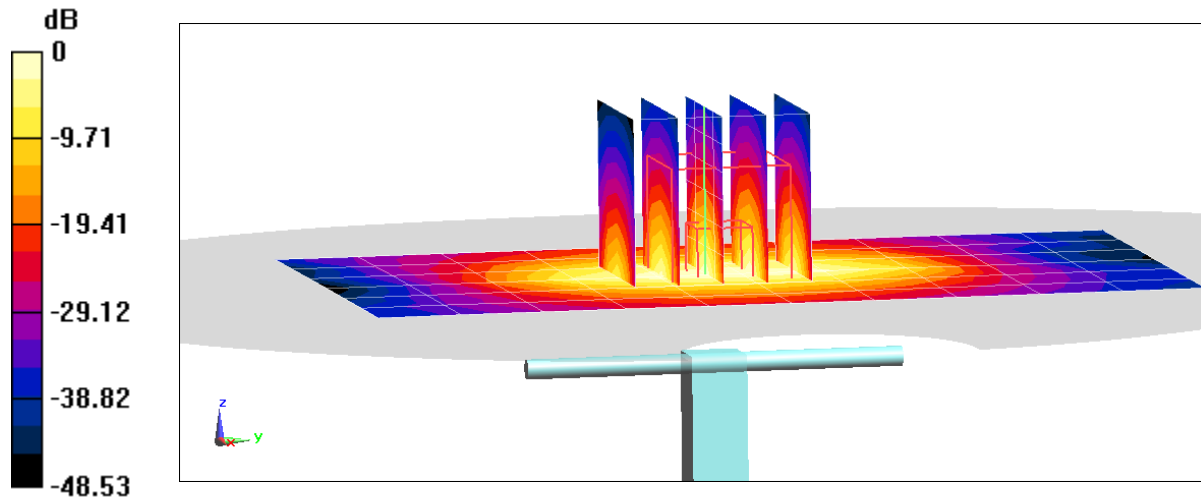
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.17 W/kg

**SAR(1 g) = 3.91 W/kg; SAR(10 g) = 2.02 W/kg**

Deviation(1 g) = 0.00%; Deviation(10 g) = -1.46%



0 dB = 5.72 W/kg = 7.57 dBW/kg

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d148**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.548 \text{ S/m}$ ;  $\epsilon_r = 53.291$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/10/2020; Ambient Temp: 22.6°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1900 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

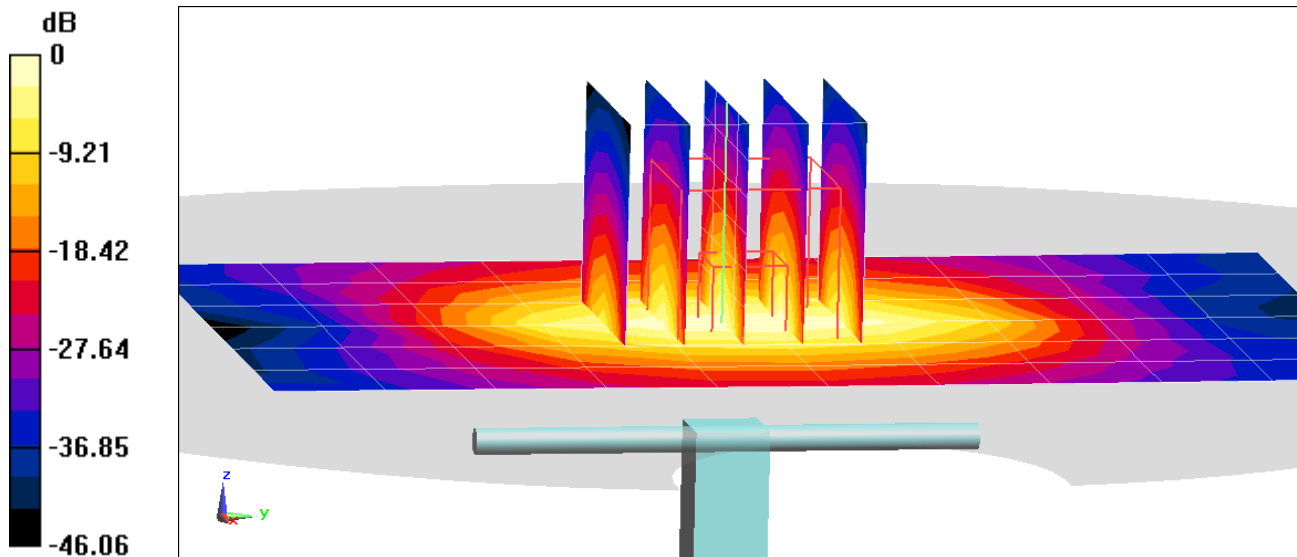
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.67 W/kg

**SAR(1 g) = 4.13 W/kg**

Deviation(1 g) = 5.63%



# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d148**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.568 \text{ S/m}$ ;  $\epsilon_r = 52.646$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/12/2020; Ambient Temp: 24.9°C; Tissue Temp: 22.3°C

Probe: EX3DV4 - SN7552; ConvF(7.58, 7.58, 7.58) @ 1900 MHz; Calibrated: 9/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1449; Calibrated: 9/12/2019

Phantom: Left Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1792

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

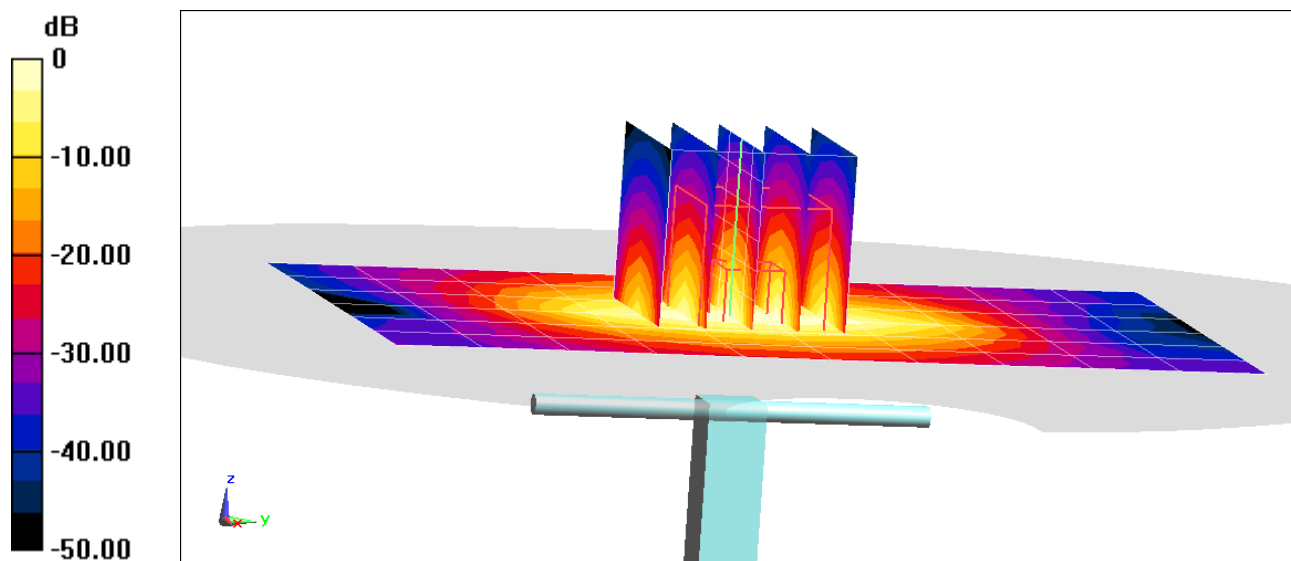
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.69 W/kg

**SAR(10 g) = 2.16 W/kg**

Deviation(10 g) = 5.37%



0 dB = 6.46 W/kg = 8.10 dBW/kg

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.545 \text{ S/m}$ ;  $\epsilon_r = 54.617$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/17/2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

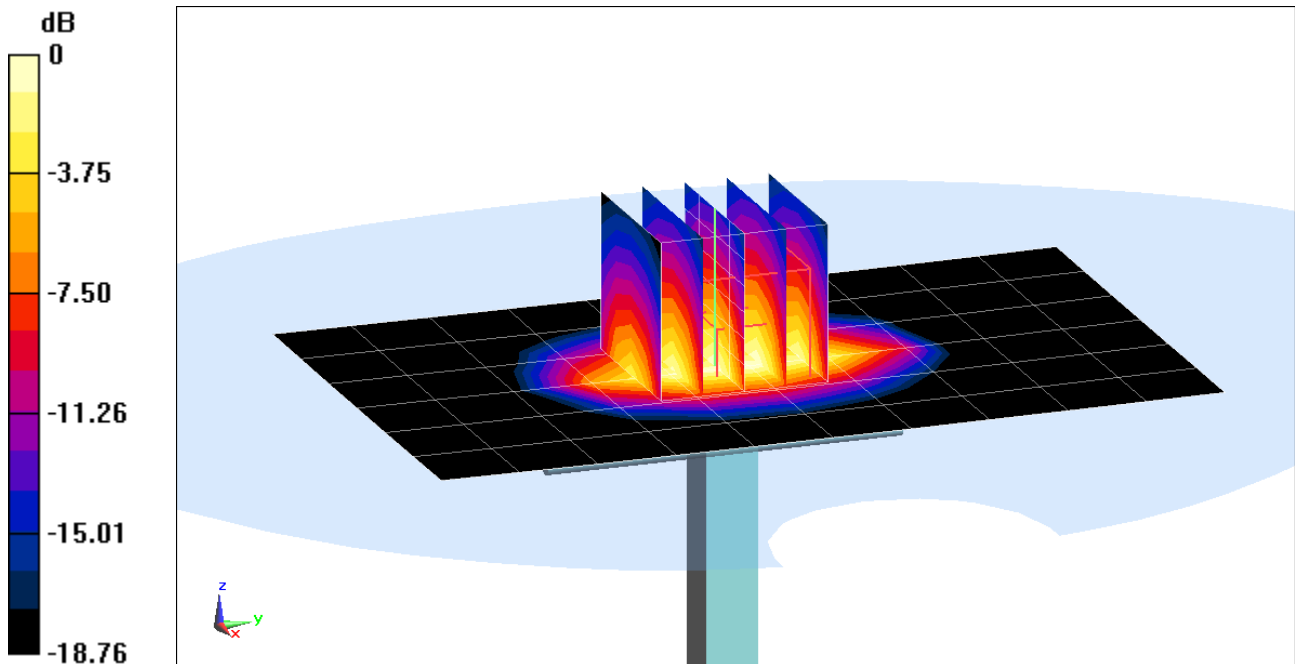
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.54 W/kg

**SAR(1 g) = 4.04 W/kg; SAR(10 g) = 2.07 W/kg**

Deviation(1 g) = 3.06%; Deviation(10 g) = 0.49%



# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.577 \text{ S/m}$ ;  $\epsilon_r = 54.055$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/20/2020; Ambient Temp: 22.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

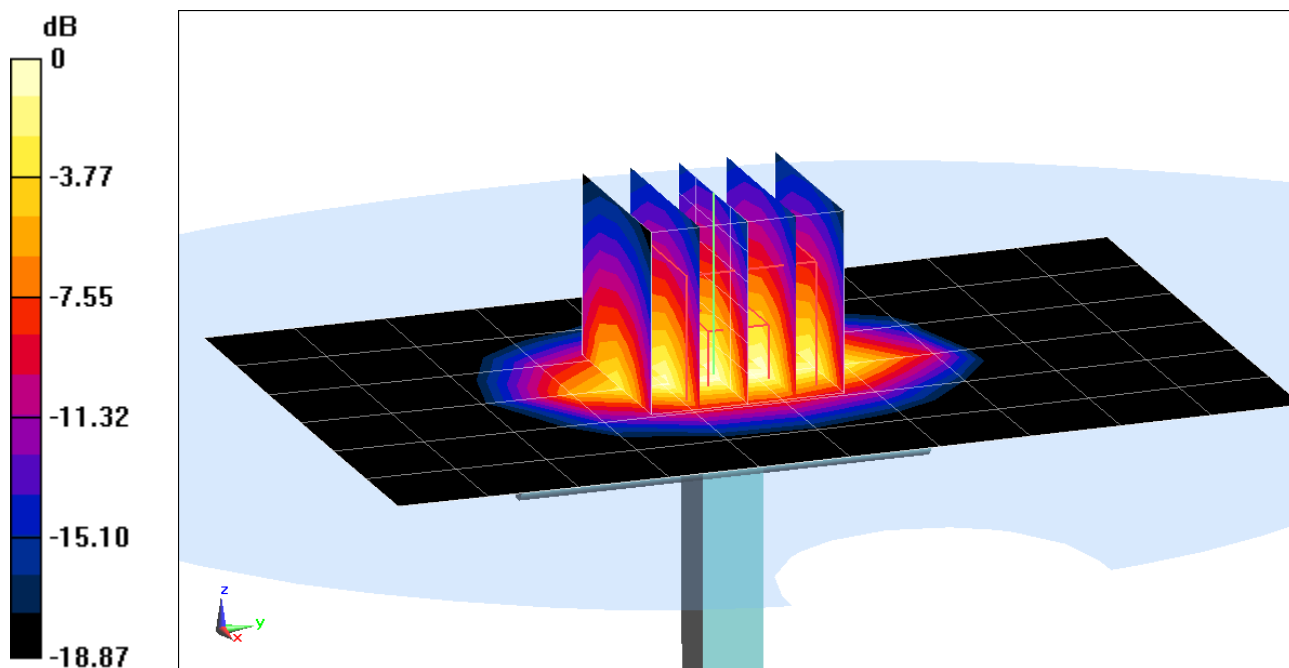
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.59 W/kg

**SAR(1 g) = 4.02 W/kg**

Deviation(1 g) = 2.55%



0 dB = 6.20 W/kg = 7.92 dBW/kg

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.544 \text{ S/m}$ ;  $\epsilon_r = 53.552$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/23/2020; Ambient Temp: 23.1°C; Tissue Temp: 23.9°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

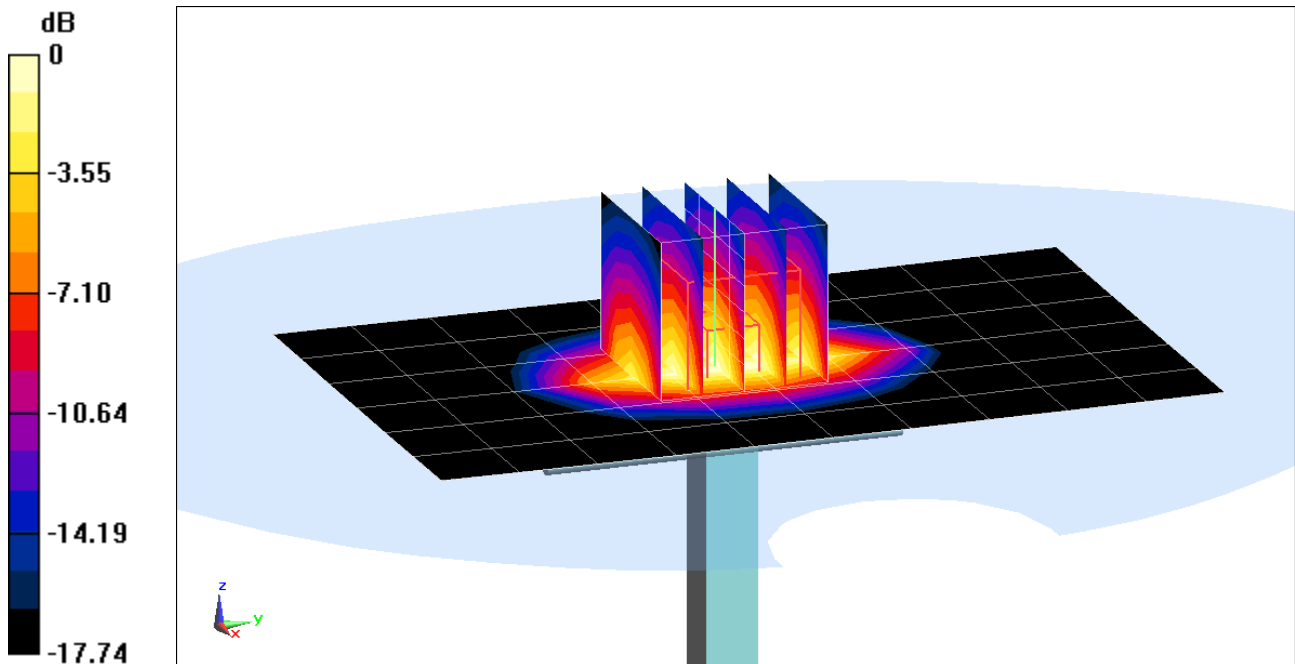
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.50 W/kg

**SAR(1 g) = 4.15 W/kg; SAR(10 g) = 2.16 W/kg**

Deviation(1 g) = 5.87%; Deviation(10 g) = 4.85%



0 dB = 6.36 W/kg = 8.03 dBW/kg

# PCTEST

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d080**

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

Medium: 1900 Body Medium parameters used:

$f = 1900 \text{ MHz}$ ;  $\sigma = 1.558 \text{ S/m}$ ;  $\epsilon_r = 53.035$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/26/2020; Ambient Temp: 24.1°C; Tissue Temp: 22.7°C

Probe: EX3DV4 - SN7571; ConvF(7.56, 7.56, 7.56) @ 1900 MHz; Calibrated: 12/11/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1533; Calibrated: 12/5/2019

Phantom: SAM Left; Type: QD000P40CC; Serial: TP: 1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 1900 MHz System Verification at 20.0 dBm (100 mW)

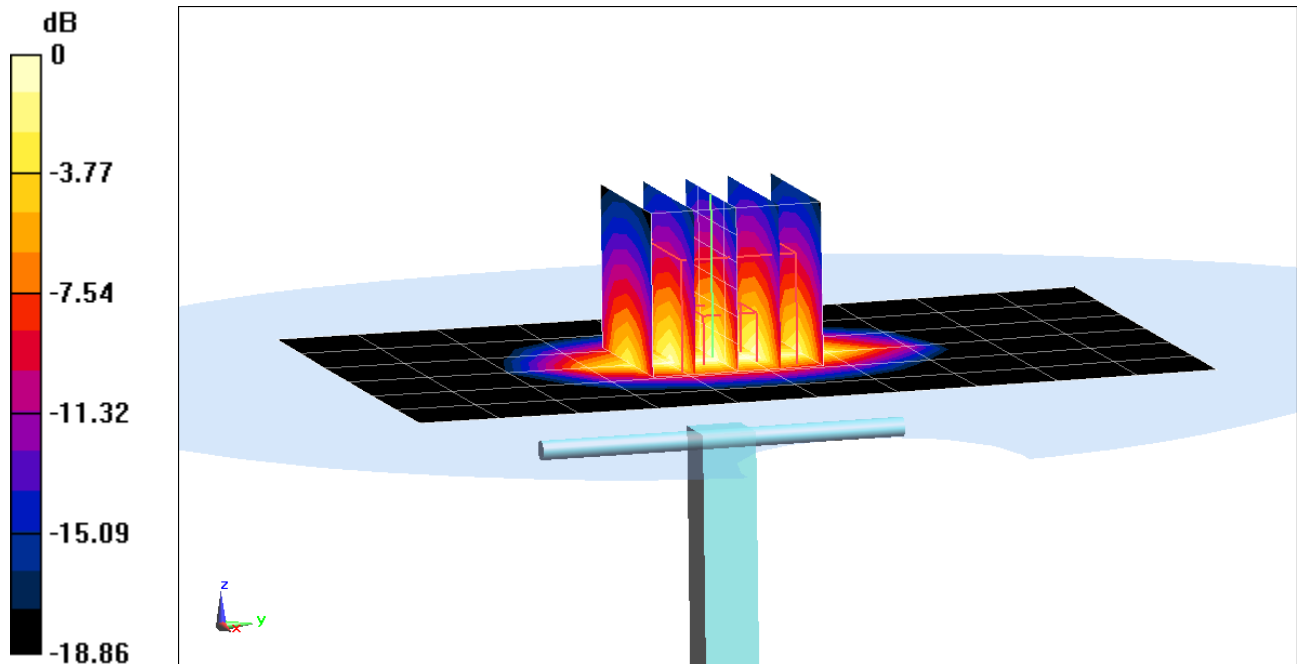
**Area Scan (7x11x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.82 W/kg

**SAR(1 g) = 4.05 W/kg**

Deviation(1 g) = 3.32%



0 dB = 6.45 W/kg = 8.10 dBW/kg

# PCTEST

**DUT: Dipole 2300 MHz; Type: D2300V2; Serial: 1073**

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

Medium: 2450 Body Medium parameters used:

$f = 2300 \text{ MHz}$ ;  $\sigma = 1.846 \text{ S/m}$ ;  $\epsilon_r = 53.12$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/04/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7547; ConvF(7.47, 7.47, 7.47) @ 2300 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2300 MHz System Verification at 20.0 dBm (100 mW)

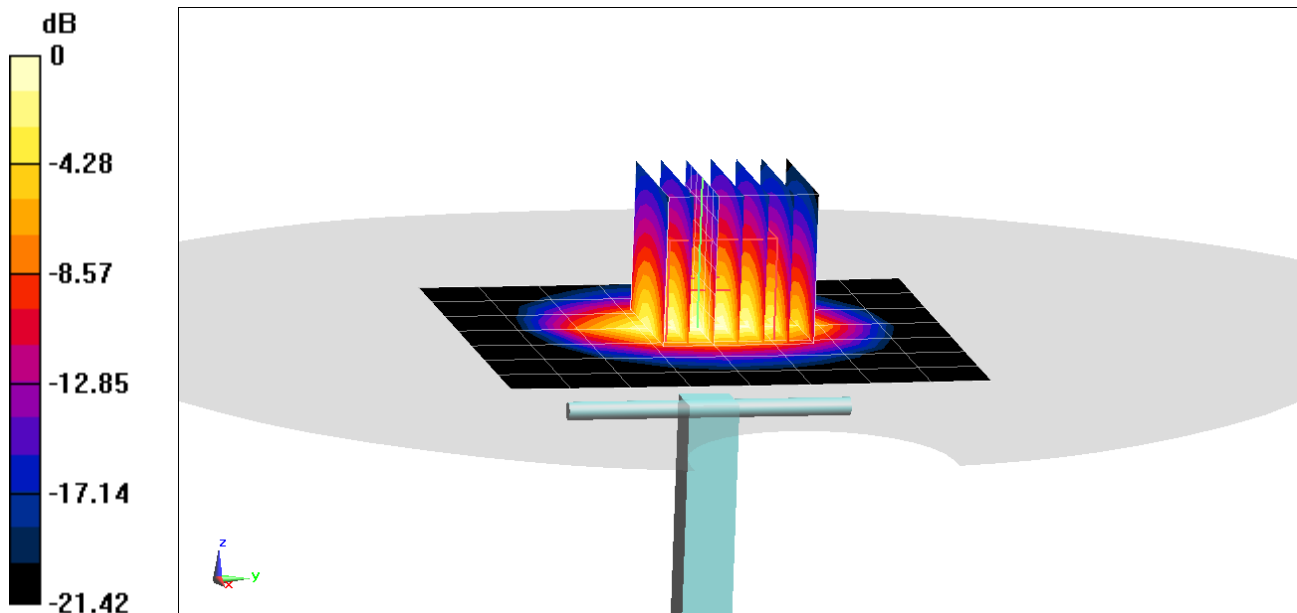
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(1 g) = 5.13 W/kg**

Deviation(1 g) = 7.55%



0 dB = 8.36 W/kg = 9.22 dBW/kg

# PCTEST

**DUT: Dipole 2300 MHz; Type: D2300V2; Serial: 1073**

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

Medium: 2450 Body Medium parameters used:

$f = 2300 \text{ MHz}$ ;  $\sigma = 1.873 \text{ S/m}$ ;  $\epsilon_r = 53.083$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/07/2020; Ambient Temp: 23.6°C; Tissue Temp: 23.3°C

Probe: EX3DV4 - SN7547; ConvF(7.47, 7.47, 7.47) @ 2300 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2300 MHz System Verification at 20.0 dBm (100 mW)

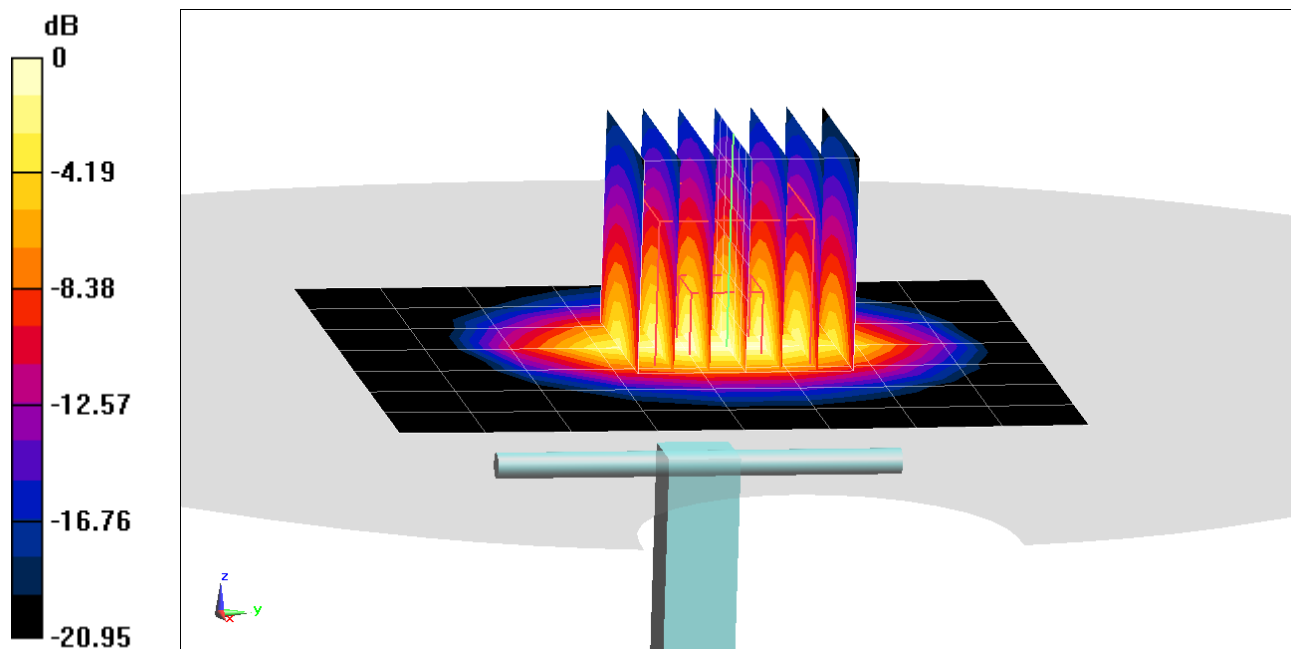
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(10 g) = 2.46 W/kg**

Deviation(10 g) = 6.03%



0 dB = 8.46 W/kg = 9.27 dBW/kg

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 797**

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 2.047 \text{ S/m}$ ;  $\epsilon_r = 51.61$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/13/2020; Ambient Temp: 24.0°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2450 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

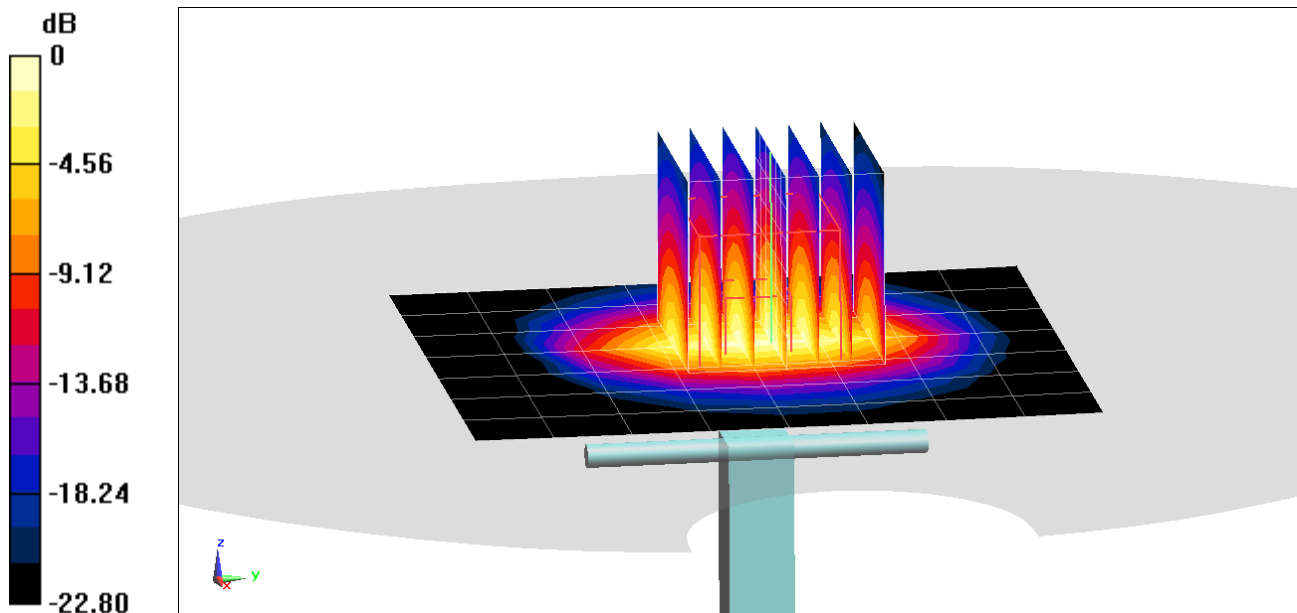
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**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 W/kg**

Deviation(1 g) = -2.15%



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

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 2.011 \text{ S/m}$ ;  $\epsilon_r = 52.642$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/18/2020; Ambient Temp: 22.2°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2450 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

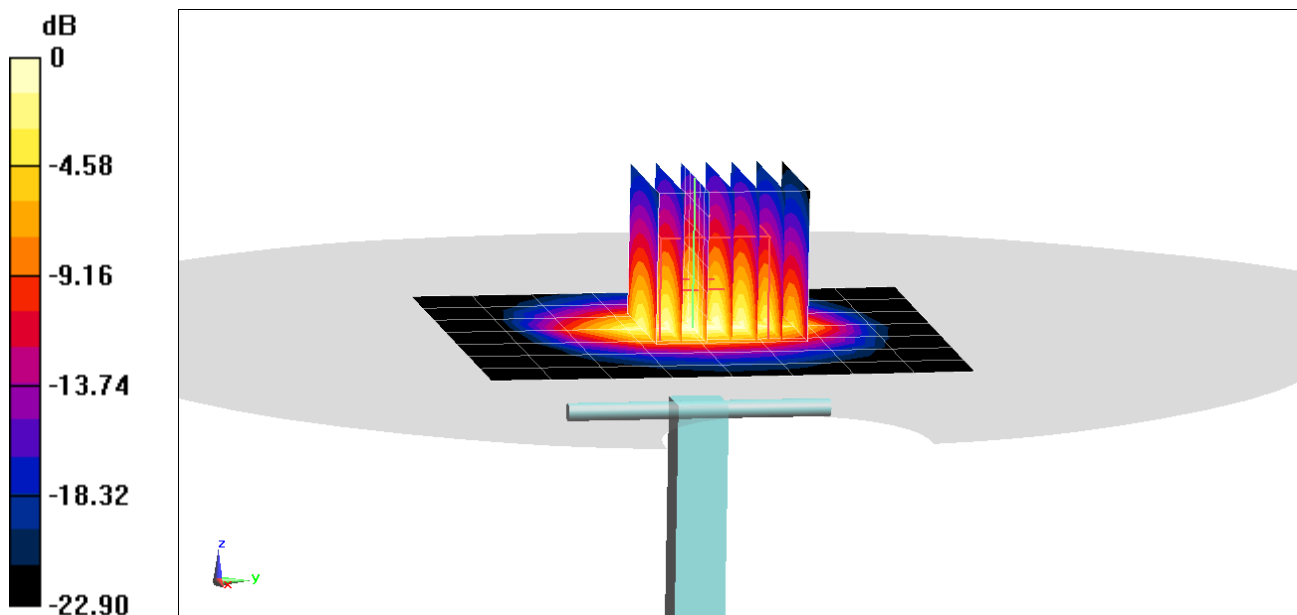
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.8 W/kg

**SAR(1 g) = 5.25 W/kg**

Deviation(1 g) = 3.35%



# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 2.033 \text{ S/m}$ ;  $\epsilon_r = 51.036$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/20/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2450 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

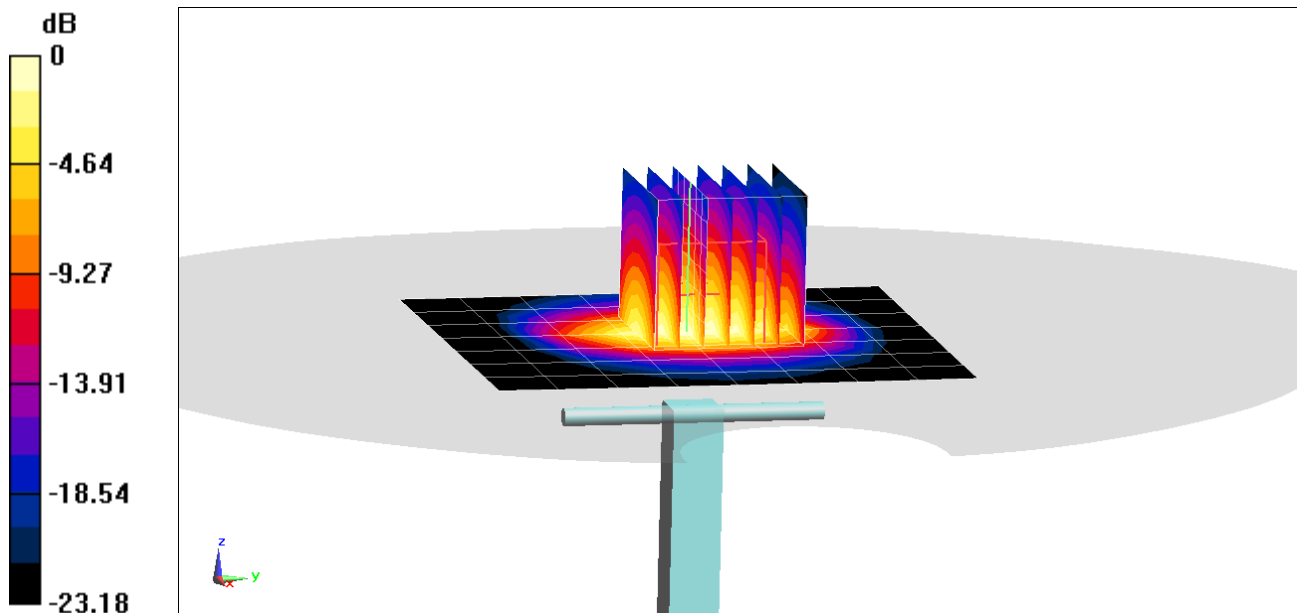
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 10.6 W/kg

**SAR(1 g) = 5.09 W/kg; SAR(10 g) = 2.33 W/kg**

Deviation(1 g) = 0.20%; Deviation(10 g) = -2.92%



0 dB = 8.46 W/kg = 9.27 dBW/kg

# PCTEST

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1064**

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

Medium: 2450 Body Medium parameters used:

$f = 2600$  MHz;  $\sigma = 2.211$  S/m;  $\epsilon_r = 50.595$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/20/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2600 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2600 MHz System Verification at 20.0 dBm (100 mW)

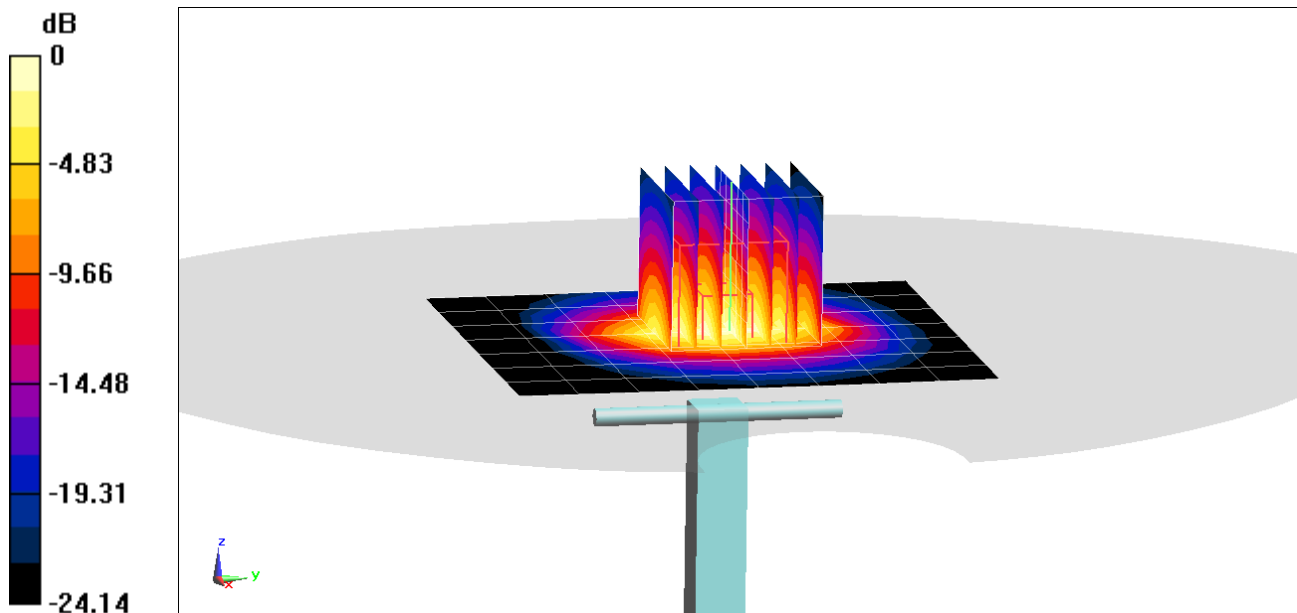
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 12.2 W/kg

**SAR(10 g) = 2.45 W/kg**

Deviation(10 g) = -2.00%



0 dB = 9.57 W/kg = 9.81 dBW/kg

# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 2.045 \text{ S/m}$ ;  $\epsilon_r = 50.783$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2450 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

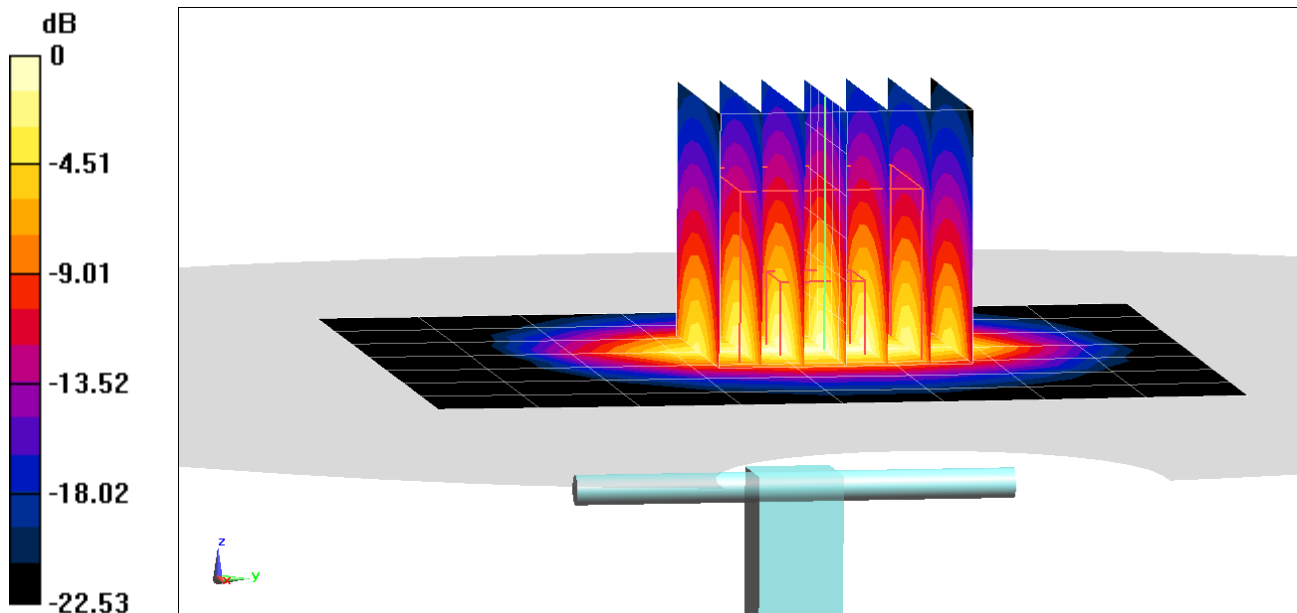
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

**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) = 5.25 W/kg**

Deviation(1 g) = 3.35%



# PCTEST

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1064**

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

Medium: 2450 Body Medium parameters used:

$f = 2600 \text{ MHz}$ ;  $\sigma = 2.22 \text{ S/m}$ ;  $\epsilon_r = 50.325$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/27/2020; Ambient Temp: 22.9°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2600 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2600 MHz System Verification at 20.0 dBm (100 mW)

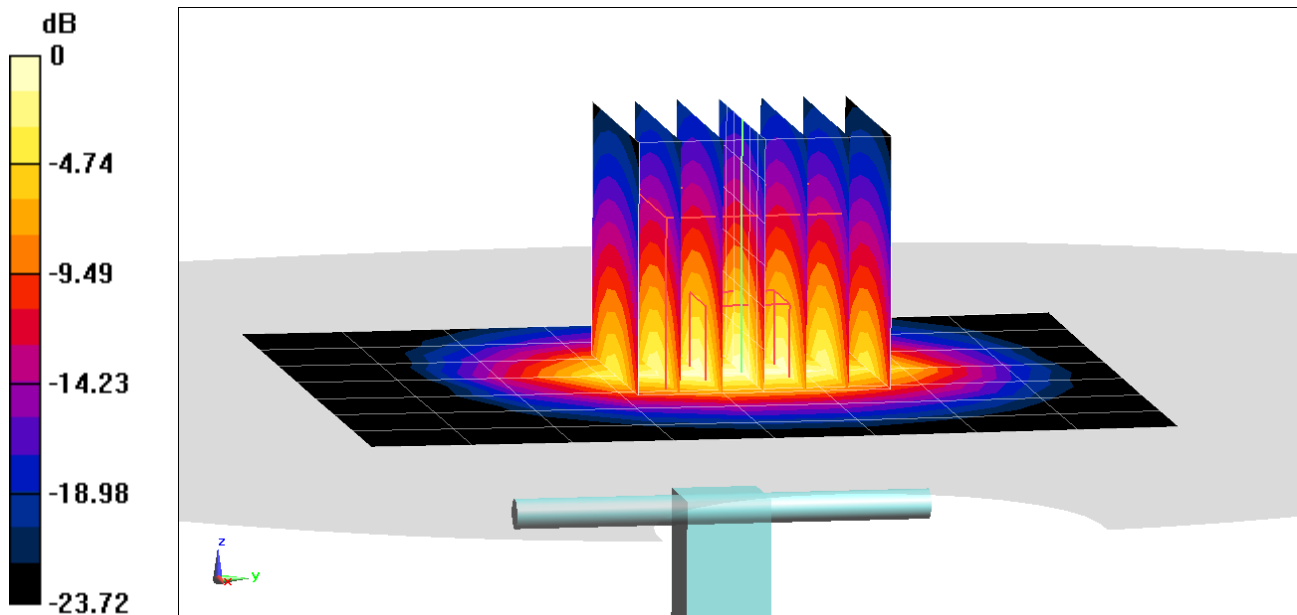
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 12.2 W/kg

**SAR(1 g) = 5.43 W/kg**

Deviation(1 g) = -2.34%



# PCTEST

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 719**

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$ ;  $\sigma = 2.031 \text{ S/m}$ ;  $\epsilon_r = 52.584$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/01/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7547; ConvF(7.3, 7.3, 7.3) @ 2450 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2450 MHz System Verification at 20.0 dBm (100 mW)

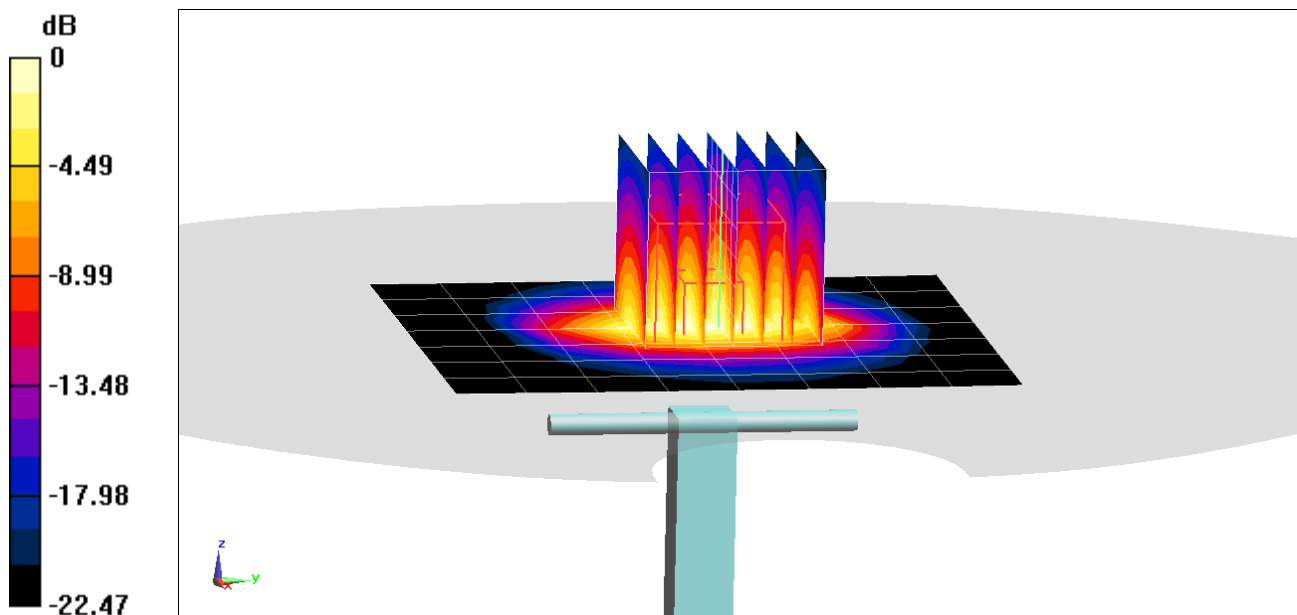
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 10.8 W/kg

**SAR(10 g) = 2.4 W/kg**

Deviation(10 g) = 0.00%



0 dB = 8.69 W/kg = 9.39 dBW/kg

# PCTEST

**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1064**

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

Medium: 2450 Body Medium parameters used:

$f = 2600 \text{ MHz}$ ;  $\sigma = 2.211 \text{ S/m}$ ;  $\epsilon_r = 52.13$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/01/2020; Ambient Temp: 22.5°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7547; ConvF(7.18, 7.18, 7.18) @ 2600 MHz; Calibrated: 7/15/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1323; Calibrated: 7/11/2019

Phantom: LeftTwin-SAM V5.0; Type: QD 000 P40 CD; Serial: TP1375

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 2600 MHz System Verification at 20.0 dBm (100 mW)

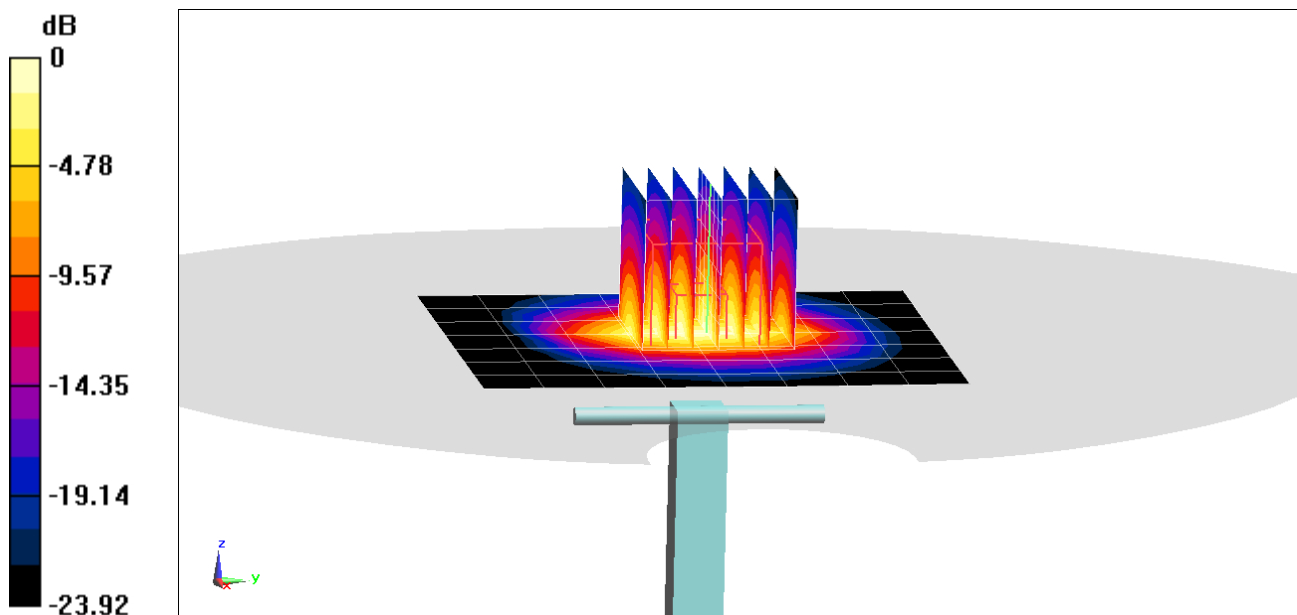
**Area Scan (8x9x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

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

Peak SAR (extrapolated) = 11.9 W/kg

**SAR(10 g) = 2.4 W/kg**

Deviation(10 g) = -4.00%



# PCTEST

**DUT: Dipole 3500 MHz; Type: D3500V2; Serial: 1059**

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

Medium: 3600 Body Medium parameters used:

$f = 3500$  MHz;  $\sigma = 3.39$  S/m;  $\epsilon_r = 49.566$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/03/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7488; ConvF(7, 7, 7) @ 3500 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 3500 MHz System Verification at 20.0 dBm (100 mW)

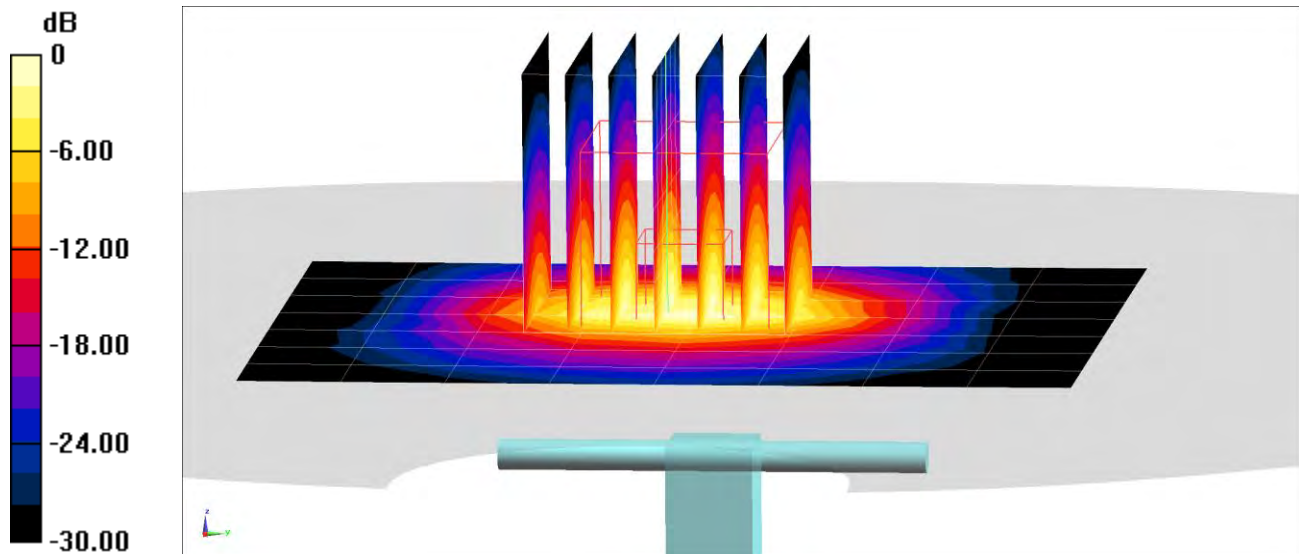
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.4 W/kg

**SAR(1 g) = 6.52 W/kg**

Deviation(1 g) = 0.15%



0 dB = 12.6 W/kg = 11.00 dBW/kg

# PCTEST

**DUT: Dipole 3700 MHz; Type: D3700V2; Serial: 1018**

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

Medium: 3600 Body Medium parameters used:

$f = 3700 \text{ MHz}$ ;  $\sigma = 3.603 \text{ S/m}$ ;  $\epsilon_r = 49.25$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/03/2020; Ambient Temp: 22.1°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7488; ConvF(6.85, 6.85, 6.85) @ 3700 MHz; Calibrated: 1/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1530; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: 1646

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 3700 MHz System Verification at 20.0 dBm (100 mW)

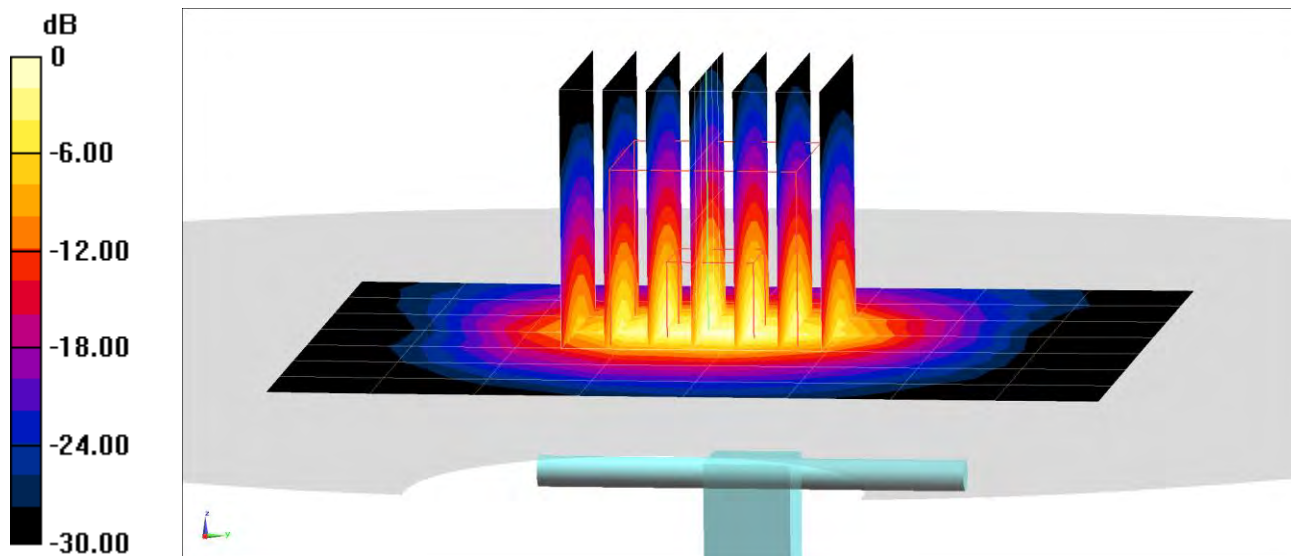
**Area Scan (8x9x1):** Measurement grid: dx=12mm, dy=12mm

**Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.8 W/kg

**SAR(1 g) = 6.64 W/kg**

Deviation(1 g) = 3.27%



# PCTEST

**DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1057**

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

Medium: 5200-5800 Body Medium parameters used:

$f = 5250$  MHz;  $\sigma = 5.522$  S/m;  $\epsilon_r = 46.842$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/24/2020; Ambient Temp: 22.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7409; ConvF(4.7, 4.7, 4.7) @ 5250 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 5250 MHz System Verification at 17.0 dBm (50 mW)

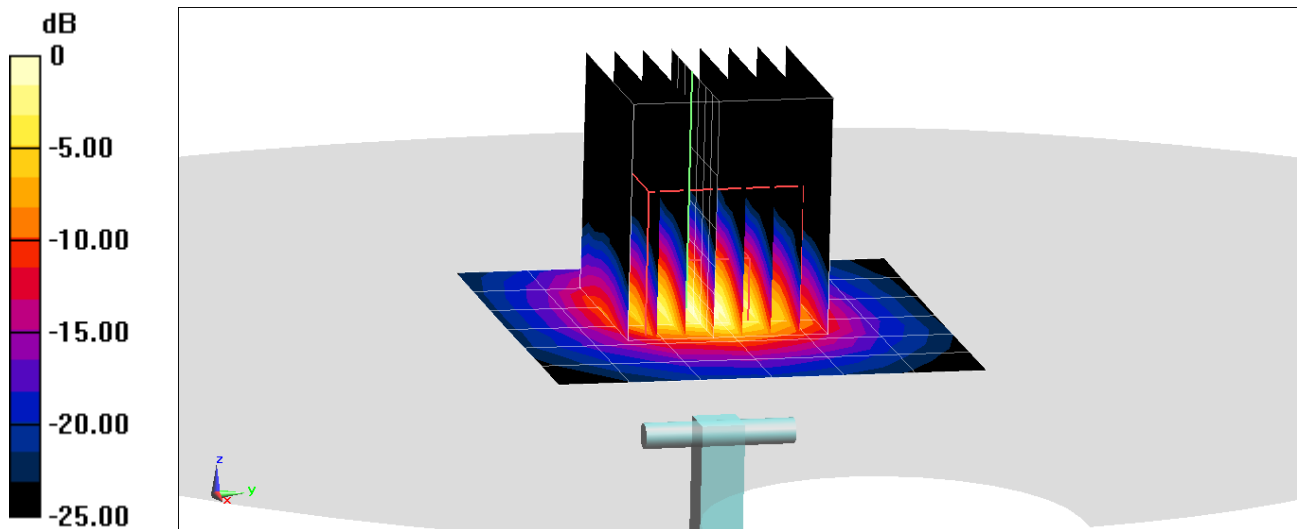
**Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.5 W/kg

**SAR(1 g) = 3.67 W/kg; SAR(10 g) = 1.02 W/kg**

Deviation(1 g) = -3.29%; Deviation(10 g) = -3.32%



0 dB = 8.62 W/kg = 9.36 dBW/kg

# PCTEST

**DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1057**

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body Medium parameters used:

$f = 5600$  MHz;  $\sigma = 5.985$  S/m;  $\epsilon_r = 46.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/24/2020; Ambient Temp: 22.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7409; ConvF(4.22, 4.22, 4.22) @ 5600 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 5600 MHz System Verification at 17.0 dBm (50 mW)

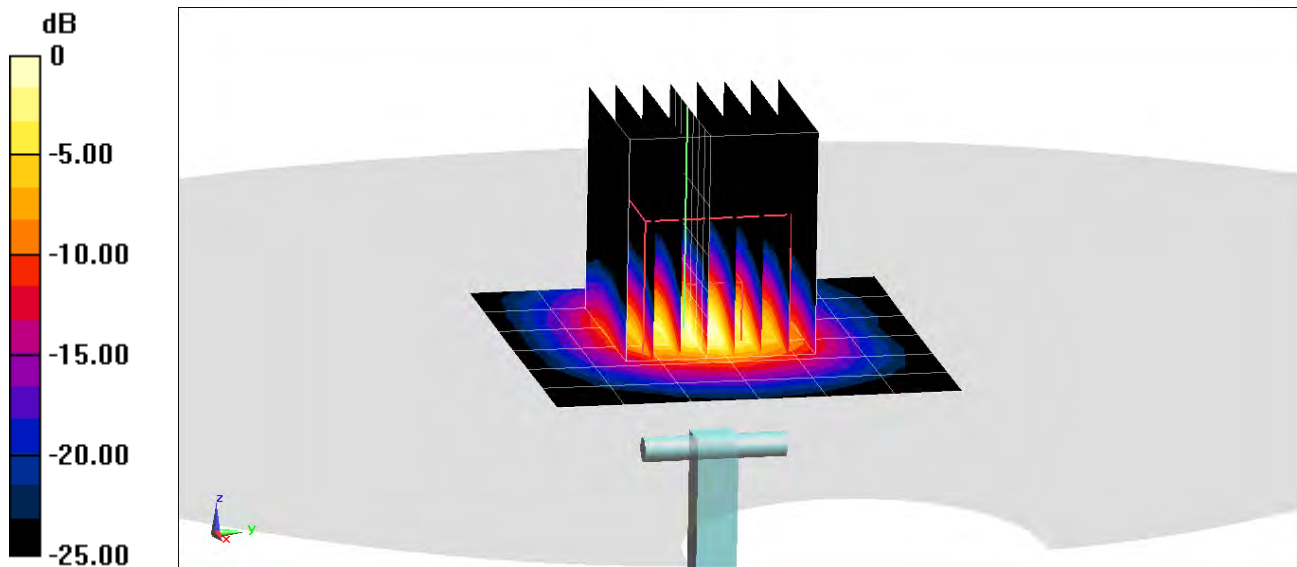
**Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.7 W/kg

**SAR(1 g) = 4.09 W/kg; SAR(10 g) = 1.13 W/kg**

Deviation(1 g) = 2.38%; Deviation(10 g) = 1.35%



0 dB = 9.81 W/kg = 9.92 dBW/kg

# PCTEST

**DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1057**

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

Medium: 5200-5800 Body Medium parameters used:

$f = 5750$  MHz;  $\sigma = 6.191$  S/m;  $\epsilon_r = 46.023$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 05/24/2020; Ambient Temp: 22.0°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7409; ConvF(4.23, 4.23, 4.23) @ 5750 MHz; Calibrated: 6/19/2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1334; Calibrated: 6/20/2019

Phantom: Front; Type: QD 000 P40 CD; Serial: 1686

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

## 5750 MHz System Verification at 17.0 dBm (50 mW)

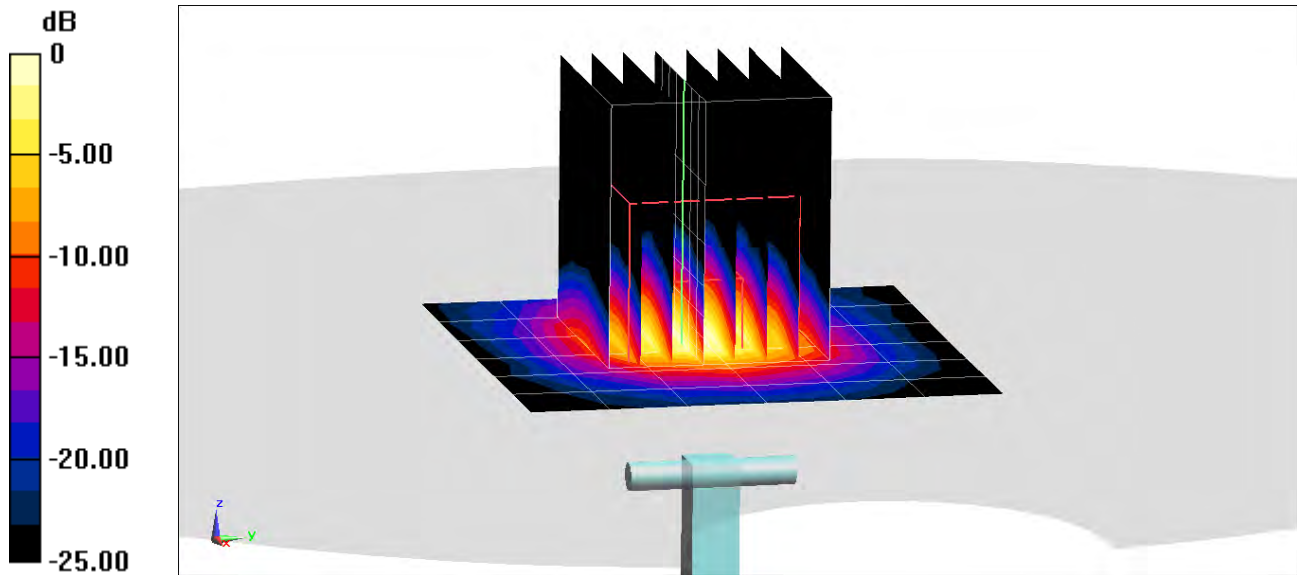
**Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

**Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.9 W/kg

**SAR(1 g) = 3.92 W/kg; SAR(10 g) = 1.07 W/kg**

Deviation(1 g) = 2.22%; Deviation(10 g) = 0.94%



0 dB = 9.74 W/kg = 9.89 dBW/kg

## APPENDIX C: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity  $\epsilon'$  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,  $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$ ,  $\omega$  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<br>EINECS: 203-473-3<br>Reg.nr.: 01-2119456816-28-0000   | <b>Ethanedial</b><br>STOT RE 2, H373;<br>Acute Tox. 4, H302                                                            | >1.0-4.9% |
| CAS: 68608-26-4<br>EINECS: 271-781-5<br>Reg.nr.: 01-2119527859-22-0000 | <b>Sodium petroleum sulfonate</b><br>Eye Irrit. 2, H319                                                                | < 2.9%    |
| CAS: 107-41-5<br>EINECS: 203-489-0<br>Reg.nr.: 01-2119539582-35-0000   | <b>Hexylene Glycol / 2-Methyl-pentane-2,4-diol</b><br>Skin Irrit. 2, H315; Eye Irrit. 2, H319                          | < 2.9%    |
| CAS: 68920-66-1<br>NLP: 500-236-9<br>Reg.nr.: 01-2119489407-26-0000    | <b>Alkoxylated alcohol, &gt; C<sub>18</sub></b><br>Aquatic Chronic 2, H411;<br>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.

|                                           |                                                                                                                                                 |                              |                                                                                       |                                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LSMN986U                 |  <b>PCTEST</b><br><small>Primo to be part of Samsung</small> | <b>SAR EVALUATION REPORT</b> |  | <b>Approved by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>04/22/20 - 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                            |                              |                                                                                       | APPENDIX C:<br>Page 1 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

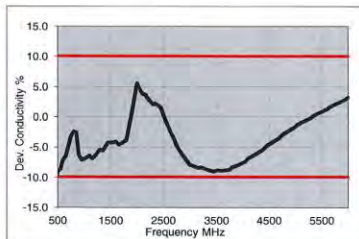
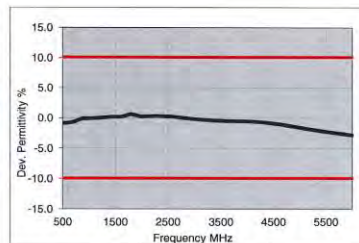
Ambient Condition **22°C ; 30% humidity**  
 TSL Temperature **22°C**  
 Test Date **30-Oct-18**  
 Operator **CL**

## 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**

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Test Dates:<br>04/22/20 - 06/07/20 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX C:<br>Page 2 of 3      |

## Measurement Certificate / Material Test

Item Name **Head Tissue Simulating Liquid (HBBL600-10000V6)**  
 Product No. **SL AAH U16 BC (Batch: 181031-2)**  
 Manufacturer **SPEAG**

## Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

## Target Parameters

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

## Test Condition

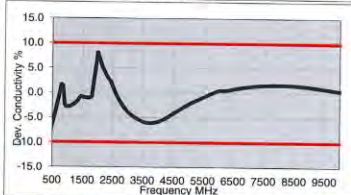
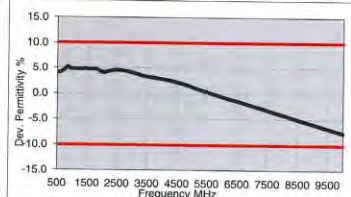
Ambient Condition **22°C ; 30% humidity**  
 TSL Temperature **22°C**  
 Test Date **31-Oct-18**  
 Operator **CL**

## Additional Information

TSL Density  
 TSL Heat-capacity

## Results

| f [MHz] | Measured    |              |       | Target |       | Diff.to Target [%] |                |
|---------|-------------|--------------|-------|--------|-------|--------------------|----------------|
|         | $\epsilon'$ | $\epsilon''$ | sigma | eps    | sigma | $\Delta\epsilon$   | $\Delta\sigma$ |
| 800     | 43.8        | 20.5         | 0.91  | 41.7   | 0.90  | 5.1                | 1.4            |
| 825     | 43.8        | 20.1         | 0.92  | 41.6   | 0.91  | 5.3                | 1.5            |
| 835     | 43.8        | 19.9         | 0.93  | 41.5   | 0.91  | 5.4                | 2.0            |
| 850     | 43.7        | 19.7         | 0.93  | 41.5   | 0.92  | 5.3                | 1.5            |
| 900     | 43.5        | 18.9         | 0.95  | 41.5   | 0.97  | 4.8                | -2.1           |
| 1400    | 42.5        | 15.0         | 1.17  | 40.6   | 1.18  | 4.7                | -0.8           |
| 1450    | 42.5        | 14.8         | 1.19  | 40.5   | 1.20  | 4.9                | -0.8           |
| 1600    | 42.2        | 14.3         | 1.27  | 40.3   | 1.28  | 4.7                | -1.1           |
| 1625    | 42.2        | 14.2         | 1.29  | 40.3   | 1.30  | 4.8                | -0.7           |
| 1640    | 42.2        | 14.2         | 1.30  | 40.3   | 1.31  | 4.8                | -0.5           |
| 1650    | 42.1        | 14.2         | 1.30  | 40.2   | 1.31  | 4.6                | -1.0           |
| 1700    | 42.1        | 14.0         | 1.33  | 40.2   | 1.34  | 4.8                | -0.9           |
| 1750    | 42.0        | 13.9         | 1.36  | 40.1   | 1.37  | 4.8                | -0.8           |
| 1800    | 41.9        | 13.9         | 1.39  | 40.0   | 1.40  | 4.7                | -0.7           |
| 1810    | 41.9        | 13.8         | 1.40  | 40.0   | 1.40  | 4.7                | 0.0            |
| 1825    | 41.9        | 13.8         | 1.41  | 40.0   | 1.40  | 4.7                | 0.7            |
| 1850    | 41.8        | 13.8         | 1.42  | 40.0   | 1.40  | 4.5                | 1.4            |
| 1900    | 41.8        | 13.7         | 1.45  | 40.0   | 1.40  | 4.5                | 3.6            |
| 1950    | 41.7        | 13.7         | 1.48  | 40.0   | 1.40  | 4.3                | 5.7            |
| 2000    | 41.6        | 13.6         | 1.51  | 40.0   | 1.40  | 4.0                | 7.9            |
| 2050    | 41.6        | 13.6         | 1.55  | 39.9   | 1.44  | 4.2                | 7.3            |
| 2100    | 41.5        | 13.5         | 1.58  | 39.8   | 1.49  | 4.2                | 6.1            |
| 2150    | 41.4        | 13.5         | 1.62  | 39.7   | 1.53  | 4.2                | 5.7            |
| 2200    | 41.4        | 13.5         | 1.65  | 39.6   | 1.58  | 4.4                | 4.6            |
| 2250    | 41.3        | 13.5         | 1.69  | 39.6   | 1.62  | 4.4                | 4.2            |
| 2300    | 41.2        | 13.5         | 1.72  | 39.5   | 1.67  | 4.4                | 3.2            |
| 2350    | 41.1        | 13.5         | 1.76  | 39.4   | 1.71  | 4.4                | 2.9            |
| 2400    | 41.1        | 13.5         | 1.80  | 39.3   | 1.76  | 4.6                | 2.5            |
| 2450    | 41.0        | 13.5         | 1.84  | 39.2   | 1.80  | 4.6                | 2.2            |
| 2500    | 40.9        | 13.5         | 1.88  | 39.1   | 1.85  | 4.5                | 1.4            |
| 2550    | 40.8        | 13.5         | 1.92  | 39.1   | 1.91  | 4.4                | 0.6            |
| 2600    | 40.8        | 13.6         | 1.95  | 39.0   | 1.96  | 4.6                | -0.2           |
| 3500    | 39.2        | 14.1         | 2.74  | 37.9   | 2.91  | 3.3                | -5.8           |
| 3700    | 38.9        | 14.2         | 2.93  | 37.7   | 3.12  | 3.1                | -6.1           |



|       |      |      |       |      |       |      |      |
|-------|------|------|-------|------|-------|------|------|
| 5200  | 36.3 | 15.8 | 4.57  | 35.0 | 4.66  | 0.9  | -1.7 |
| 5250  | 36.2 | 15.9 | 4.63  | 35.9 | 4.71  | 0.8  | -1.6 |
| 5300  | 36.1 | 15.9 | 4.69  | 35.9 | 4.76  | 0.7  | -1.4 |
| 5500  | 35.8 | 16.1 | 4.92  | 35.6 | 4.96  | 0.3  | -0.9 |
| 5600  | 35.6 | 16.2 | 5.04  | 35.5 | 5.07  | 0.1  | -0.6 |
| 5700  | 35.4 | 16.2 | 5.15  | 35.4 | 5.17  | 0.0  | -0.3 |
| 5800  | 35.2 | 16.3 | 5.27  | 35.3 | 5.27  | -0.2 | 0.0  |
| 6000  | 34.9 | 16.5 | 5.50  | 35.1 | 5.48  | -0.6 | 0.5  |
| 6500  | 34.0 | 16.9 | 6.12  | 34.5 | 6.07  | -1.4 | 0.9  |
| 7000  | 33.1 | 17.3 | 6.74  | 33.9 | 6.65  | -2.3 | 1.3  |
| 7500  | 32.2 | 17.6 | 7.36  | 33.3 | 7.24  | -3.2 | 1.6  |
| 8000  | 31.4 | 17.9 | 7.97  | 32.7 | 7.84  | -4.1 | 1.7  |
| 8500  | 30.5 | 18.2 | 8.59  | 32.1 | 8.45  | -5.0 | 1.6  |
| 9000  | 29.7 | 18.4 | 9.20  | 31.5 | 9.08  | -5.9 | 1.3  |
| 9500  | 28.9 | 18.5 | 9.80  | 31.0 | 9.71  | -6.8 | 0.9  |
| 10000 | 28.1 | 18.7 | 10.40 | 30.4 | 10.36 | -7.6 | 0.4  |

TSL Dielectric Parameters

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**Figure C-3**  
**600 – 5800 MHz Head Tissue Equivalent Matter**

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  | SAR EVALUATION REPORT |  | Approved by:<br>Quality Manager |
| Test Dates:<br>04/22/20 - 06/07/20 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX C:<br>Page 3 of 3      |

## APPENDIX D: SAR SYSTEM VALIDATION

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

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

**Table 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 <sub>r</sub> ) | SENSITIVITY   | PROBE LINEARITY | PROBE ISOTROPY | MOD. TYPE       | DUTY FACTOR | PAR  |
| E            | 750         | 2/20/2020 | 3589     | 750              | Head  | 0.889             | 43.647        | PASS            | PASS           | PASS            | N/A         | N/A  |
| P            | 835         | 10/1/2019 | 7551     | 835              | Head  | 0.918             | 41.180        | PASS            | PASS           | PASS            | GMSK        | PASS |
| L            | 1750        | 9/24/2019 | 7410     | 1750             | Head  | 1.351             | 40.190        | PASS            | PASS           | PASS            | N/A         | N/A  |
| L            | 1900        | 9/24/2019 | 7410     | 1900             | Head  | 1.442             | 39.947        | PASS            | PASS           | PASS            | GMSK        | PASS |
| E            | 2300        | 2/5/2020  | 3589     | 2300             | Head  | 1.717             | 39.033        | PASS            | PASS           | PASS            | N/A         | N/A  |
| E            | 2450        | 2/5/2020  | 3589     | 2450             | Head  | 1.823             | 38.835        | PASS            | PASS           | PASS            | OFDM/TDD    | PASS |
| E            | 2600        | 2/5/2020  | 3589     | 2600             | Head  | 1.933             | 38.635        | PASS            | PASS           | PASS            | TDD         | PASS |
| D            | 3500        | 2/4/2020  | 7488     | 3500             | Head  | 2.882             | 36.886        | PASS            | PASS           | PASS            | TDD         | PASS |
| D            | 3700        | 2/4/2020  | 7488     | 3700             | Head  | 3.037             | 36.597        | PASS            | PASS           | PASS            | TDD         | PASS |
| H            | 5250        | 5/7/2020  | 7357     | 5250             | Head  | 4.644             | 35.120        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| H            | 5600        | 5/7/2020  | 7357     | 5600             | Head  | 5.030             | 34.510        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| H            | 5750        | 5/7/2020  | 7357     | 5750             | Head  | 5.207             | 34.260        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| L            | 750         | 8/20/2019 | 7410     | 750              | Body  | 0.941             | 54.921        | PASS            | PASS           | PASS            | N/A         | N/A  |
| M            | 835         | 4/20/2020 | 7570     | 835              | Body  | 0.956             | 54.580        | PASS            | PASS           | PASS            | GMSK        | PASS |
| D            | 835         | 2/20/2020 | 7488     | 835              | Body  | 1.001             | 53.450        | PASS            | PASS           | PASS            | GMSK        | PASS |
| I            | 1750        | 4/7/2020  | 7527     | 1750             | Body  | 1.506             | 54.990        | PASS            | PASS           | PASS            | N/A         | N/A  |
| J            | 1900        | 1/1/2020  | 7571     | 1900             | Body  | 1.579             | 51.919        | PASS            | PASS           | PASS            | GMSK        | PASS |
| O            | 1900        | 2/14/2020 | 7552     | 1900             | Body  | 1.564             | 51.850        | PASS            | PASS           | PASS            | GMSK        | PASS |
| K            | 2300        | 9/5/2019  | 7547     | 2300             | Body  | 1.893             | 52.450        | PASS            | PASS           | PASS            | N/A         | N/A  |
| K            | 2450        | 9/6/2019  | 7547     | 2450             | Body  | 1.996             | 51.898        | PASS            | PASS           | PASS            | OFDM/TDD    | PASS |
| K            | 2600        | 9/5/2019  | 7547     | 2600             | Body  | 2.176             | 52.040        | PASS            | PASS           | PASS            | TDD         | PASS |
| D            | 3500        | 2/12/2020 | 7488     | 3500             | Body  | 3.373             | 50.003        | PASS            | PASS           | PASS            | TDD         | PASS |
| D            | 3700        | 2/12/2020 | 7488     | 3700             | Body  | 3.585             | 49.719        | PASS            | PASS           | PASS            | TDD         | PASS |
| G            | 5250        | 10/4/2019 | 7409     | 5250             | Body  | 5.223             | 47.070        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| G            | 5600        | 10/7/2019 | 7409     | 5600             | Body  | 5.884             | 47.080        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| G            | 5750        | 10/7/2019 | 7409     | 5750             | Body  | 6.111             | 46.780        | PASS            | PASS           | PASS            | OFDM        | N/A  |

|                                    |                                                                                     |                            |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  | SAR EVALUATION REPORT      |  | Approved by:<br>Quality Manager |
| Test Dates:<br>04/22/20 - 06/07/20 | DUT Type:<br>Portable Handset                                                       | APPENDIX D:<br>Page 1 of 2 |                                                                                       |                                 |

**Table D-2**  
**SAR System Validation Summary – 10g**

| SAR SYSTEM # | FREQ. [MHz] | DATE      | PROBE SN | PROBE CAL. POINT | COND. | PERM.             | CW VALIDATION |                 |                | MOD. VALIDATION |             |      |
|--------------|-------------|-----------|----------|------------------|-------|-------------------|---------------|-----------------|----------------|-----------------|-------------|------|
|              |             |           |          |                  | (σ)   | (ε <sub>r</sub> ) | SENSITIVITY   | PROBE LINEARITY | PROBE ISOTROPY | MOD. TYPE       | DUTY FACTOR | PAR  |
| I            | 1750        | 4/7/2020  | 7527     | 1750             | Body  | 1.506             | 54.990        | PASS            | PASS           | PASS            | N/A         | N/A  |
| O            | 1900        | 2/14/2020 | 7552     | 1900             | Body  | 1.564             | 51.850        | PASS            | PASS           | PASS            | GMSK        | PASS |
| J            | 1900        | 1/1/2020  | 7571     | 1900             | Body  | 1.579             | 51.919        | PASS            | PASS           | PASS            | GMSK        | PASS |
| K            | 2300        | 9/5/2019  | 7547     | 2300             | Body  | 1.893             | 52.450        | PASS            | PASS           | PASS            | N/A         | N/A  |
| K            | 2450        | 9/6/2019  | 7547     | 2450             | Body  | 1.996             | 51.898        | PASS            | PASS           | PASS            | OFDM/TDD    | PASS |
| K            | 2600        | 9/5/2019  | 7547     | 2600             | Body  | 2.176             | 52.040        | PASS            | PASS           | PASS            | TDD         | PASS |
| G            | 5250        | 10/4/2019 | 7409     | 5250             | Body  | 5.223             | 47.070        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| G            | 5600        | 10/7/2019 | 7409     | 5600             | Body  | 5.884             | 47.080        | PASS            | PASS           | PASS            | OFDM        | N/A  |
| G            | 5750        | 10/7/2019 | 7409     | 5750             | Body  | 6.111             | 46.780        | 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.

|                                           |                                                                                                                                                         |                              |                                                                                       |                                        |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                        |  <b>PCTEST</b><br><small>Probing to the heart of the network</small> | <b>SAR EVALUATION REPORT</b> |  | <b>Approved by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>04/22/20 - 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                                    | APPENDIX D:<br>Page 2 of 2   |                                                                                       |                                        |

## 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

[illegible]

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

| Index   |                 |              |              |              |              |              |              |              |              | Supported Channel Bandwidth (MHz) |         |  |  |  |  |  |  |  |  | Restriction | Completely Covered by Measurement SuperSet |
|---------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------------------|---------|--|--|--|--|--|--|--|--|-------------|--------------------------------------------|
| ZCC     |                 | CC1          |              | CC2          |              | CC3          |              |              |              |                                   |         |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M1  | A [2C]          | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M6                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M2  | A [2A-2B]       | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M1                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M3  | A [2A-12A]      | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M3                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M4  | A [2A-4A] (2)   | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M1                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M5  | A [2A-4A] (2)   | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M5                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M6  | A [2A-5A]       | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M3                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M7  | A [2A-12A] (3)  | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | No                                | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M8  | A [2A-13A]      | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M5                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M9  | A [2A-17A]      | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | No                                | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M10 | A [2A-29A] (2)  | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | B29-SCC Only                      | 3CC#M12 |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M11 | A [2A-30A]      | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M10                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M12 | A [2A-66A] (2)  | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M12                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M13 | A [2A-166A] (2) | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M2                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M14 | A [2A-166A] (2) | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M14                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M15 | A [2A-71A]      | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M15                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M16 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M16                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M17 | A [2A-166A] (6) | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M17                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M18 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M18                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M19 | A [2A-30A-166A] | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M19                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M20 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 3CC#M20                           | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M21 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M1                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M22 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M2                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M23 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M3                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M24 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M4                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M25 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M5                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M26 | A [2A-166A]     | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | 4CC#M6                            | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M27 | A [2A-46A-66A]  | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | No                                | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M28 | A [2A-166A-66A] | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | No                                | No      |  |  |  |  |  |  |  |  |             |                                            |
| ZCC#M29 | A [2A-166A-66A] | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | S 10, 15, 20 | No                                | No      |  |  |  |  |  |  |  |  |             |                                            |

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

|                                    |                                                                                                                                                             |                             |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  <b>PCTEST</b><br><small>(Provided to the part of the equipment)</small> | SAR EVALUATION REPORT       |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                                                                                               | APPENDIX F:<br>Page 1 of 17 |                                                                                       |                                 |

## 1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

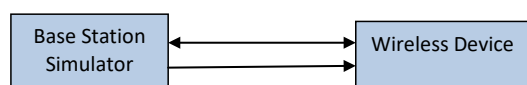
SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (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)iii) 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**

|                                    |                                                                                                                                                                                                                             |                       |                                                                                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                                                                                                                                                               |                       |                                                                                       | APPENDIX F:<br>Page 2 of 17     |

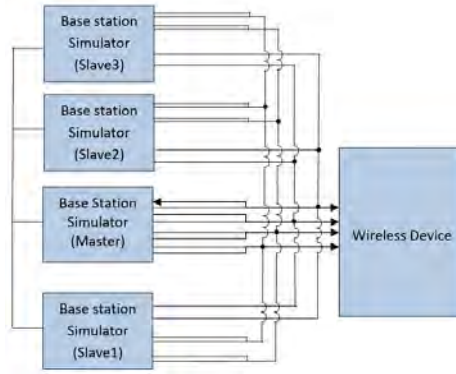


Figure 2  
DL CA with DL 4x4 MIMO Power Measurement Setup

## 1.3 Downlink Carrier Aggregation RF Conducted Powers

### 1.3.1 LTE Band 71 as PCC

Table 1  
Maximum Output Powers

| Combination       | PCC Band | PCC BW [MHz] | PCC              |                      |             |                    | Modulation | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC 1    |              |                  | SCC 2                |          |              | SCC 3            |                      |          | Power        |                  |                      |                                       |
|-------------------|----------|--------------|------------------|----------------------|-------------|--------------------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|
|                   |          |              | PCC (UL) Channel | PCC (UL) Freq. [MHz] | PCC (UL) RB | PCC (UL) RB Offset |            |                  |                  |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) |
| CA 4A-4A-71A      | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B4               | 20       | 2175         | 2132.5           | LTE B4               | 10       | 2350         | 2150             | -                    | -        | -            | -                | 25.33                | 25.29                                 |
| CA 4B4-4B4-71A    | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B4B              | 20       | 55990        | 3625             | LTE B4B              | 20       | 55940        | 3630             | -                    | -        | -            | -                | 25.31                | 25.29                                 |
| CA 4B4-71A        | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B4B              | 20       | 55990        | 3625             | LTE B4B              | 20       | 56108        | 3544.8           | -                    | -        | -            | -                | 25.36                | 25.29                                 |
| CA 2A-2A-4A-71A   | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B4               | 20       | 2175         | 2132.5           | 25.35                | 25.29                                 |
| CA 2A-2A-6B4-71A  | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B2               | 20       | 900          | 1960             | LTE B2               | 20       | 700          | 1940             | LTE B6B              | 20       | 66786        | 2145             | 25.33                | 25.29                                 |
| CA 2A-6B4-6B4-71A | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B2               | 20       | 900          | 1960             | LTE B6B              | 20       | 66786        | 2145             | LTE B6B              | 20       | 67236        | 2190             | 25.32                | 25.29                                 |
| CA 2A-6B4-71A     | LTE B71  | 5            | 133147           | 665.5                | QPSK        | 1                  | 24         | 68611            | 619.5            | LTE B2               | 20       | 900          | 1960             | LTE B6B              | 20       | 66786        | 2145             | LTE B6B              | 20       | 66884        | 2164.8           | 25.30                | 25.29                                 |

### 1.3.2 LTE Band 12 as PCC

Table 2  
Maximum Output Powers

| Combination           | PCC Band | PCC BW [MHz] | PCC          |                      |      |           | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC 1    |              |                  | SCC 2                |          |              | SCC 3            |                      |          | SCC 4        |                  |                      | Power                                 |                                   |
|-----------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                       |          |              | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | 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 DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-12A (1)         | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.35                                 | 25.30                             |
| CA 4A-12A (1)         | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.57                                 | 25.50                             |
| CA 4A-12A (2)         | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.57                                 | 25.50                             |
| CA 12A-2A             | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.56                                 | 25.50                             |
| CA 12A-6B4            | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B4B  | 20           | 55990            | 3627.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.51                                 | 25.50                             |
| CA 12A-6B4 (1)        | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B6B  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.52                                 | 25.50                             |
| CA 12A-6B4 (2)        | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B6B  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 25.52                                 | 25.50                             |
| CA 4A-4A-12A          | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | -        | -            | -                | -                    | 25.54                                 | 25.50                             |
| CA 12A-4B4            | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B4B  | 20           | 55990            | 3627.5               | LTE B4B  | 20           | 55940            | 3617.7               | -        | -            | -                | -                    | 25.57                                 | 25.50                             |
| CA 2A-2A-4A-12A       | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | 25.51                                 | 25.50                             |
| CA 2A-2A-12B          | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | 25.50                                 | 25.50                             |
| CA 2A-12A-6B4         | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | LTE B6B  | 20           | 66786            | 2145                 | LTE B6B  | 20           | 66884            | 2164.8               | 25.54                                 | 25.50                             |
| CA 12A-4B4            | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B4B  | 20           | 55990            | 3627.5               | LTE B4B  | 20           | 55940            | 3617.7               | LTE B4B  | 20           | 55983            | 3557.3               | 25.52                                 | 25.50                             |
| CA 2A-2A-12A-30A-6B4  | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B6B  | 20           | 66786            | 2145                 | 25.56                                 | 25.50                             |
| CA 2A-2A-12A-6B4-6B4  | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B6B  | 20           | 67236            | 2190                 | 25.56                                 | 25.50                             |
| CA 2A-12A-30A-6B4-6B4 | LTE B12  | 5            | 23035        | 701.5                | QPSK | 1         | 0                | 5035             | 731.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B6B  | 20           | 66786            | 2145                 | 25.57                                 | 25.50                             |

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX F:<br>Page 3 of 17     |

### 1.3.3 LTE Band 13 as PCC

**Table 3**  
**Maximum Output Powers**

| Combination | PCB Band | PCC   |           |                  |                      |            |        |                  |                  |                      |          | SCS-1 |           |                  |                      |          |        |           |                  |                      |          | SCS-2  |           |                  |                      |          |        |           |                  |                      |          | SCS-3  |           |                  |                      |                                |                               |       |       |  |  | SCS-4 |  |  |  |  |  |  |  |  |  | SCS-5 |  |  |  |  |  |  |  |  |  | Power |  |
|-------------|----------|-------|-----------|------------------|----------------------|------------|--------|------------------|------------------|----------------------|----------|-------|-----------|------------------|----------------------|----------|--------|-----------|------------------|----------------------|----------|--------|-----------|------------------|----------------------|----------|--------|-----------|------------------|----------------------|----------|--------|-----------|------------------|----------------------|--------------------------------|-------------------------------|-------|-------|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|-------|--|
|             |          | PCB # | PCB (MHz) | PCC (DA) Channel | PCC (DA) Freq. (MHz) | Modulation | PCB ID | PCB ID in Offset | PCC (DA) Channel | PCC (DA) Freq. (MHz) | SCS Band | SCS # | SCS (MHz) | SCS (DA) Channel | SCS (DA) Freq. (MHz) | SCS Band | SCS #  | SCS (MHz) | SCS (DA) Channel | SCS (DA) Freq. (MHz) | SCS Band | SCS #  | SCS (MHz) | SCS (DA) Channel | SCS (DA) Freq. (MHz) | SCS Band | SCS #  | SCS (MHz) | SCS (DA) Channel | SCS (DA) Freq. (MHz) | SCS Band | SCS #  | SCS (MHz) | SCS (DA) Channel | SCS (DA) Freq. (MHz) | 100 W Power with DC Bias (dBm) | Single Carrier Tx Power (dBm) |       |       |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-3A | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B2   | 20    | 5000      | 784              | 20                   | 2475     | 2130.5 | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | 24.36                          | 24.31                         |       |       |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-3A | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B2   | 20    | 5000      | 784              | 20                   | 2475     | 2130.5 | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | 24.36                          | 24.31                         |       |       |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-4A-4A-3A | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 2475      | 2130.5           | 1                    | LTE-B4   | 10     | 2475      | 2130.5           | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | 24.36                          | 24.31                         |       |       |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-3A | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 2475     | 2130.5 | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | -        | -      | -         | -                | -                    | 24.36                          | 24.31                         |       |       |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B2   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B2   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000                           | 5507.5                        | 24.36 | 24.31 |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |
| CA-2A-1A-4C | LTE-B13  | 10    | 21200     | 782              | QPSK                 | 1          | 20     | 5200             | 791              | 1                    | LTE-B4   | 20    | 5000      | 784              | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         | LTE-B4           | 20                   | 5000     | 5507.5 | 1         |                  |                      |                                |                               |       |       |  |  |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |       |  |

### 1.3.4 LTE Band 14 as PCC

**Table 4**  
**Maximum Output Powers**

| Combination          | PCC Band | PCC          |                  |                      |            |                  | SCC 1            |                      |          |                  | SCC 2                |          |              |                  | SCC 3                |          |              |                  | SCC 4                |          |              |                  | Power                |                                       |                                   |       |       |
|----------------------|----------|--------------|------------------|----------------------|------------|------------------|------------------|----------------------|----------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                      |          | PCC BW [MHz] | PCC [DL] Channel | PCC [UL] Freq. [MHz] | Modulation | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA 2A-2A-14A-20A-66A | LTE B14  | 10           | 23310            | 793                  | QPSK       | 1                | 0                | 5330                 | 763      | LTE B2           | 20                   | 900      | 1560         | LTE B3           | 20                   | 900      | 1480         | LTE B30          | 20                   | 68786    | 2345         | LTE B66          | 20                   | 68786                                 | 2145                              | 25.15 | 25.15 |
| CA 2A-2A-14A-66A-66A | LTE B14  | 10           | 23310            | 793                  | QPSK       | 1                | 0                | 5330                 | 763      | LTE B2           | 20                   | 900      | 1560         | LTE B3           | 20                   | 900      | 1480         | LTE B30          | 20                   | 68786    | 2345         | LTE B66          | 20                   | 68786                                 | 2145                              | 25.15 | 25.15 |
| CA 2A-2A-14A-66A-66A | LTE B14  | 10           | 23310            | 793                  | QPSK       | 1                | 0                | 5330                 | 763      | LTE B2           | 20                   | 900      | 1560         | LTE B3           | 20                   | 900      | 1480         | LTE B30          | 20                   | 68786    | 2345         | LTE B66          | 20                   | 68786                                 | 2145                              | 25.15 | 25.15 |
| CA 2A-2A-14A-66A-66A | LTE B14  | 10           | 23310            | 793                  | QPSK       | 1                | 0                | 5330                 | 763      | LTE B2           | 20                   | 900      | 1560         | LTE B3           | 20                   | 900      | 1480         | LTE B30          | 20                   | 68786    | 2345         | LTE B66          | 20                   | 68786                                 | 2145                              | 25.15 | 25.15 |

### 1.3.5 LTE Band 26 as PCC

**Table 5**  
**Maximum Output Powers**

| Combination    | PCC Band | PCC          |                  |                      |            |           | SCC 1            |                  |                      | SCC 2    |              |                  | SCC 3                |          |              | Power            |                      |          |              |                  |                      |                                       |                                   |       |       |       |
|----------------|----------|--------------|------------------|----------------------|------------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|-------|
|                |          | PCC BW [MHz] | PCC [UL] Channel | PCC [DL] Freq. [MHz] | Modulation | 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 25A-25A-26A | LTE B26  | 2            | 26B65            | 831.5                | QPSK       | 1         | 14               | 8865             | 876.5                | LTE B25  | 20           | 8365             | 192.5                | LTE B25  | 20           | 8590             | 1985                 | -        | -            | -                | -                    | -                                     | -                                 | 25.30 | 25.08 |       |
| CA 25A-26A-41A | LTE B26  | 10           | 26B65            | 831.5                | QPSK       | 1         | 0                | 8865             | 876.5                | LTE B25  | 20           | 8365             | 192.5                | LTE B41  | 20           | 40620            | 2593                 | -        | -            | -                | -                    | -                                     | -                                 | 25.30 | 25.30 |       |
| CA 26A-41C     | LTE B26  | 10           | 26B65            | 831.5                | QPSK       | 1         | 0                | 8865             | 876.5                | LTE B41  | 20           | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573                 | -        | -            | -                | -                    | -                                     | -                                 | 25.34 | 25.30 |       |
| CA 25A-26A-41C | LTE B26  | 10           | 26B65            | 831.5                | QPSK       | 1         | 0                | 8865             | 876.5                | LTE B25  | 20           | 8140             | 1940                 | LTE B41  | 20           | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573                 | -                                     | -                                 | -     | 25.32 | 25.30 |

### 1.3.6 LTE Band 5 as PCC

**Table 6**  
**Maximum Output Powers**

| Combination    |                | PCC      |              |                  |                  |      |           |                |                |                  |          | SC1          |                  |                  |                |                |                  |                  |          |              |                  | SC2              |                |                |                  |                  |          |              |                  |                  |                | SC3            |                  |                  |          |              |                  |                  |                |                |                  | SC4              |                                        |                                   |       |       |      |      |  |  |  | SC5 |  |  |  |  |  |  |  |  |  | Power |  |
|----------------|----------------|----------|--------------|------------------|------------------|------|-----------|----------------|----------------|------------------|----------|--------------|------------------|------------------|----------------|----------------|------------------|------------------|----------|--------------|------------------|------------------|----------------|----------------|------------------|------------------|----------|--------------|------------------|------------------|----------------|----------------|------------------|------------------|----------|--------------|------------------|------------------|----------------|----------------|------------------|------------------|----------------------------------------|-----------------------------------|-------|-------|------|------|--|--|--|-----|--|--|--|--|--|--|--|--|--|-------|--|
|                |                | PCC Band | PCC BW [MHz] | PCC Tx (L) [MHz] | PCC Rx (L) [MHz] | Mod. | PCC UAR # | PCC ULN Offset | PCC DL Channel | PCC Tx (H) [MHz] | SCC Band | SCC BW [MHz] | SCC Tx (L) [MHz] | SCC Rx (L) [MHz] | SCC ULN Offset | SCC DL Channel | SCC Tx (H) [MHz] | SCC Rx (H) [MHz] | SCC Band | SCC BW [MHz] | SCC Tx (L) [MHz] | SCC Rx (L) [MHz] | SCC ULN Offset | SCC DL Channel | SCC Tx (H) [MHz] | SCC Rx (H) [MHz] | SCC Band | SCC BW [MHz] | SCC Tx (L) [MHz] | SCC Rx (L) [MHz] | SCC ULN Offset | SCC DL Channel | SCC Tx (H) [MHz] | SCC Rx (H) [MHz] | SCC Band | SCC BW [MHz] | SCC Tx (L) [MHz] | SCC Rx (L) [MHz] | SCC ULN Offset | SCC DL Channel | SCC Tx (H) [MHz] | SCC Rx (H) [MHz] | LTE Tx Power with 10 CA Channels [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |      |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-31T     | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-35A     | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-31T     | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-35A     | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A     | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A     | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5                                  | 0                                 | 2520  | 881.5 | 24.0 | 24.0 |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
| CA 35A-44A-44A | LTE-B5         | 10       | 20120        | 836.5            | QPSK             | 0    | 2520      | 881.5          | LTE-B5         | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 2520             | 881.5          | 0              | 20120            | 881.5            | 0                                      | 2520                              | 881.5 | 24.0  | 24.0 |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |
|                | CA 35A-44A-44A | LTE-B5   | 10           | 20120            | 836.5            | QPSK | 0         | 2520           | 881.5          | LTE-B5           | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5    | 0            | 20120            | 881.5            | 0              | 2520           | 881.5            | 0                | 20120    | 881.5        | 0                | 20120            | 881.5          | 0              | 2520             | 881.5            | 0        | 20120        | 881.5            | 0                | 2520           | 881.5          | 0                | 20120            | 881.5</                                |                                   |       |       |      |      |  |  |  |     |  |  |  |  |  |  |  |  |  |       |  |

|                                           |                                                                                                                                                                                                                             |                             |                                                                                       |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                        |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT       |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>04/22/20 – 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                                                                                                        | APPENDIX F:<br>Page 4 of 17 |                                                                                       |                                        |



### 1.3.10 LTE Band 41 as PCC

Table 10  
Maximum Output Powers

| Combination    | PCC      |              |              |                      |      |                  |                  |                  |                      |          | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |                                       | Power                             |       |
|----------------|----------|--------------|--------------|----------------------|------|------------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                | PCC Band | PCC BW [MHz] | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | Mod. | PCC UL RB Offset | 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                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.11                             | 24.11 |
| CA 41A-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 41490            | 2580.2               | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.11                             | 24.11 |
| CA 41C-41A     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2509.8               | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.10                             | 24.11 |
| CA 41A-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 41094            | 2501.4               | LTE B41  | 20           | 41292            | 2502.2               | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.12                             | 24.11 |
| CA 41D-41A     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2509.8               | LTE B41  | 20           | 41292            | 2502.2               | LTE B41  | 20           | 41490            | 2580                 | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.10                             | 24.11 |
| CA 41C-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2509.8               | LTE B41  | 20           | 41094            | 2501.4               | LTE B41  | 20           | 41292            | 2502.2               | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.08                             | 24.11 |
| CA 41C-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2509.8               | LTE B41  | 20           | 41094            | 2501.4               | LTE B41  | 20           | 41292            | 2502.2               | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.10                             | 24.11 |
| CA 41D-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2509.8               | LTE B41  | 20           | 41094            | 2501.4               | LTE B41  | 20           | 41292            | 2502.2               | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.14                             | 24.11 |
| CA 41D-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1                | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2509.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 41292            | 2502.2               | LTE B41  | 20           | 41490            | 2580                 | -                                     | 24.10                             | 24.11 |

### 1.3.11 LTE Band 48 as PCC

Table 11  
Maximum Output Powers

| 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 DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |  |
| CA 48A-48A  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.76                             | 24.80 |  |
| CA 48A-48C  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.87                             | 24.80 |  |
| CA 48C-48A  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.82                             | 24.80 |  |
| CA 48A-48D  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.89                             | 24.80 |  |
| CA 48D-48A  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.82                             | 24.80 |  |
| CA 48C-48C  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.84                             | 24.80 |  |
| CA 48E      | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56169            | 3642.9               | LTE B48  | 20           | 56169            | 3642.9               | LTE B48  | 20           | 56169            | 3642.9               | -                                     | 24.89                             | 24.80 |  |
| CA 48C-48D  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | LTE B48  | 20           | 56640            | 3690                 | -                                     | 24.91                             | 24.80 |  |
| CA 48D-48C  | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56169            | 3642.9               | LTE B48  | 20           | 56169            | 3642.9               | LTE B48  | 20           | 56169            | 3642.9               | -                                     | 24.94                             | 24.80 |  |
| CA 48F      | LTE B48  | 20           | 55773        | 3603.3               | QPSK | 1         | 50               | 55773            | 3603.3               | LTE B48  | 20           | 55071            | 3623.1               | LTE B48  | 20           | 56169            | 3642.9               | LTE B48  | 20           | 56169            | 3642.9               | LTE B48  | 20           | 56169            | 3642.9               | -                                     | 24.83                             | 24.80 |  |

## 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 12  
Maximum Output Powers

| LTE Band | Bandwidth [MHz] | Channel | Frequency [MHz] | Modulation | RB Size | RB Offset | 4x4 DL MIMO Tx. Power [dBm] | Single Antenna Tx. Power [dBm] |
|----------|-----------------|---------|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|
| 66       | 10              | 132022  | 1715            | QPSK       | 1       | 25        | 23.90                       | 23.91                          |
| 25       | 20              | 26140   | 1860            | QPSK       | 1       | 50        | 23.81                       | 23.75                          |
| 30       | 5               | 27710   | 2310            | QPSK       | 1       | 24        | 23.70                       | 23.80                          |
| 41       | 20              | 39750   | 2506            | QPSK       | 1       | 99        | 24.21                       | 24.11                          |
| 48       | 20              | 55773   | 3603.3          | QPSK       | 1       | 50        | 24.84                       | 24.80                          |

|                                    |                                                                                     |                             |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  | SAR EVALUATION REPORT       |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                       | APPENDIX F:<br>Page 6 of 17 |                                                                                       |                                 |

## 1.4.2 LTE Band 71 as PCC

**Table 13**  
**Maximum Output Powers**

| Combination         | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC       |                  |              |                      | DL Ant. Config. | SCC 1    |              |              |                      | DL Ant. Config. | SCC 2    |              |              |                      | DL Ant. Config. | SCC 3    |              |              |                      | DL Ant. Config. | Power                                 |                                   |
|---------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                     |          |              |              |                      |      | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] |                 | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] |                 | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] |                 | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] |                 | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA {A1}-A4-71A      | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 4x4             | LTE B4   | 10           | 2350         | 2150                 | 2x2             | -        | -            | -            | -                    | -               | 25.32                                 | 25.29                             |
| CA {A4}-A1-71A      | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 4x4             | LTE B4   | 10           | 2350         | 2150                 | 2x2             | -        | -            | -            | -                    | -               | 25.30                                 | 25.29                             |
| CA {2A}-2A-A4-71A   | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | 25.34                                 | 25.29                             |
| CA 2A-2A-A4-71A     | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 4x4             | 25.30                                 | 25.29                             |
| CA {2A}-2A-A4-71A   | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | 25.25                                 | 25.29                             |
| CA {2A}-2A-A4-71A   | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 4x4             | 25.28                                 | 25.29                             |
| CA {2A}-2A-A4-71A   | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 4x4             | 25.29                                 | 25.29                             |
| CA {2A}-2A-66A-71A  | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 25.22                                 | 25.29                             |
| CA 2A-2A-66A-71A    | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 25.27                                 | 25.29                             |
| CA {2A}-2A-66A-71A  | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 25.31                                 | 25.29                             |
| CA {2A}-2A-66A-71A  | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 25.36                                 | 25.29                             |
| CA {2A}-2A-66A-71A  | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 25.26                                 | 25.29                             |
| CA {2A}-66A-66A-71A | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | LTE B66  | 20           | 67236        | 2190                 | 2x2             | 25.40                                 | 25.29                             |
| CA 2A-66A-66A-71A   | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 67236        | 2190                 | 2x2             | 25.35                                 | 25.29                             |
| CA {2A}-66A-66A-71A | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 67236        | 2190                 | 2x2             | 25.35                                 | 25.29                             |
| CA {2A}-66A-66A-71A | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 67236        | 2190                 | 4x4             | 25.36                                 | 25.29                             |
| CA {2A}-66A-66A-71A | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 67236        | 2190                 | 4x4             | 25.33                                 | 25.29                             |
| CA {2A}-66C-71A     | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | LTE B66  | 20           | 66984        | 2164.8               | 2x2             | 25.24                                 | 25.29                             |
| CA {2A}-66C-71A     | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66984        | 2164.8               | 4x4             | 25.35                                 | 25.29                             |
| CA {2A}-66C-71A     | LTE B71  | 5            | 133147       | 665.5                | QPSK | 1         | 24               | 68611        | 619.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66984        | 2164.8               | 4x4             | 25.34                                 | 25.29                             |

FCC ID: A3LSMN986U



SAR EVALUATION REPORT



Reviewed by:  
Quality Manager

Test Dates:

04/22/20 – 06/07/20

DUT Type:

Portable Handset

APPENDIX F:  
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### 1.4.3 LTE Band 12 as PCC

**Table 14**  
**Maximum Output Powers**

| Combination        | PCC Band | PCC          |                 |      |              | SCC 1        |              |                       |                 | SCC 2    |              |                       |                 | SCC 3    |              |                       |                 | SCC 4    |              |                       |                 | Power                                  |                                   |
|--------------------|----------|--------------|-----------------|------|--------------|--------------|--------------|-----------------------|-----------------|----------|--------------|-----------------------|-----------------|----------|--------------|-----------------------|-----------------|----------|--------------|-----------------------|-----------------|----------------------------------------|-----------------------------------|
|                    |          | PCC BW [MHz] | SCC (U/L) [MHz] | Mod. | PCC ULS rate | SCC ULS rate | PCC BW [MHz] | SCC (U/L) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (U/L) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (U/L) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (U/L) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DRB CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2A]-[2A] (1)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.34                                  | 25.50                             |
| CA [2A]-[2A] (2)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B4       | 20                    | 2175            | 2132.5   | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.34                                  | 25.50                             |
| CA [4A]-[2A] (1)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B4       | 20                    | 2175            | 2132.5   | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.34                                  | 25.50                             |
| CA [2A]-[5A] (1)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B10      | 20                    | 6678.6          | 2145     | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.33                                  | 25.50                             |
| CA [2A]-[5A] (2)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B66      | 20                    | 6678.6          | 2145     | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.33                                  | 25.50                             |
| CA [4A]-[4A] (1)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B4       | 20                    | 2175            | 2132.5   | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.34                                  | 25.50                             |
| CA [4A]-[4A] (2)   | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B4       | 20                    | 2175            | 2132.5   | 4x4          | -                     | -               | -        | -            | -                     | -               | 25.34                                  | 25.50                             |
| CA [2A]-[4A]-[2A]  | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B4                | 20              | 2175     | 2132.5       | 2x2                   | -               | 25.34                                  | 25.50                             |
| CA [2A]-[4A]-[4A]  | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B4                | 20              | 2175     | 2132.5       | 2x2                   | -               | 25.34                                  | 25.50                             |
| CA [2A]-[4A]-[5A]  | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B4                | 20              | 2175     | 2132.5       | 2x2                   | -               | 25.34                                  | 25.50                             |
| CA [2A]-[2A]-[2B]  | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[7B]  | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12B] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12C] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12D] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12E] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12F] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12G] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12H] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12I] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12J] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12K] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12L] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12M] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12N] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12O] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12P] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12Q] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12R] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12S] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12T] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12U] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12V] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12W] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12X] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12Y] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[12Z] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13A] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13B] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13C] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13D] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13E] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13F] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13G] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13H] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13I] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13J] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13K] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13L] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13M] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13N] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13O] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13P] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13Q] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13R] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13S] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13T] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13U] | LTE B12  | 5            | 23035           | 70.5 | QPSK         | 1            | 0            | 5035                  | 731.5           | 2x2      | LTE B12      | 20                    | 900             | 1960     | 4x4          | LTE B2                | 20              | 700      | 1940         | 2x2                   | -               | 25.48                                  | 25.50                             |
| CA [2A]-[2A]-[13V] | LTE B12  |              |                 |      |              |              |              |                       |                 |          |              |                       |                 |          |              |                       |                 |          |              |                       |                 |                                        |                                   |

|                                           |                                                                                                                                                                                                                                                             |                             |                                                                                       |                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                        |  <b>PCTEST</b><br><small>Prepared for the point of</small>  <small>compliance</small> | SAR EVALUATION REPORT       |  | Reviewed by:<br>Quality Manager |
| <b>Test Dates:</b><br>04/22/20 – 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                                                                                                                                        | APPENDIX F:<br>Page 8 of 17 |                                                                                       |                                 |

#### 1.4.4 LTE Band 13 as PCC

**Table 15**  
**Maximum Output Powers**

| Combinator     | PCB Band | PCB BW [MHz] | PCB Freq [MHz] | SEC  |            |            |            |            |            |                 |          |              |                | SEC 1           |          |              |                | SEC 2           |          |              |                | SEC 3           |          |              |                | SEC 4           |          |              |                | SEC 5           |                                   |                    |      | Power  |     |       |       |
|----------------|----------|--------------|----------------|------|------------|------------|------------|------------|------------|-----------------|----------|--------------|----------------|-----------------|----------|--------------|----------------|-----------------|----------|--------------|----------------|-----------------|----------|--------------|----------------|-----------------|----------|--------------|----------------|-----------------|-----------------------------------|--------------------|------|--------|-----|-------|-------|
|                |          |              |                | Mod. | PCB IIR BS | PCB IIR CH | PCB IIR CH | PCB IIR CH | PCB IIR CH | DA Ant. Config. | SEC Band | SEC BW [MHz] | SEC Freq [MHz] | DA Ant. Config. | SEC Band | SEC BW [MHz] | SEC Freq [MHz] | DA Ant. Config. | SEC Band | SEC BW [MHz] | SEC Freq [MHz] | DA Ant. Config. | SEC Band | SEC BW [MHz] | SEC Freq [MHz] | DA Ant. Config. | SEC Band | SEC BW [MHz] | SEC Freq [MHz] | DA Ant. Config. | UHF to Freq with 100% Power [dBm] | UHF to Power [dBm] |      |        |     |       |       |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 25.21 |
| CA [2A] 2A-15A | LTE-B13  | 20           | 23220          | 780  | QPSK       | 1          | 25         | 5240       | 785        | 262             | LTE-B2   | 20           | 600            | 1860            | 460      | LTE-B4       | 20             | 2125            | 2122.5   | 262          | LTE-B2         | 20              | 2125     | 2122.5       | 262            | LTE-B2          | 20       | 2125         | 2122.5         | 262             | LTE-B2                            | 20                 | 2125 | 2122.5 | 262 | 25.34 | 2     |

#### 1.4.5 LTE Band 14 as PCC

**Table 16**  
**Maximum Output Powers**

| Combination                 | PCC      |              |                    |             |                    |                    |                      |                 |              |                    | SC1             |          |              |                    | SC2             |          |              |                    | SC3             |          |              |                    | SC4             |                    |                                   |      | Power |       |       |       |       |
|-----------------------------|----------|--------------|--------------------|-------------|--------------------|--------------------|----------------------|-----------------|--------------|--------------------|-----------------|----------|--------------|--------------------|-----------------|----------|--------------|--------------------|-----------------|----------|--------------|--------------------|-----------------|--------------------|-----------------------------------|------|-------|-------|-------|-------|-------|
|                             | PCC Band | PCC BW [MHz] | PCC [UL] Ch. Freq. | PCC [UL] RB | PCC [UL] RB Offset | PCC [DL] Ch. Freq. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC BW [MHz] | SCC [DL] Ch. Freq. | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. Freq. | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. Freq. | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. Freq. | DL Ant. Config. | LTE Tx Power [dBm] | LTE Single Carrier Tx Power [dBm] |      |       |       |       |       |       |
| CA (2A, 2A, 1A, 3A, 3A, 6A) | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 2d2             | LTE B10  | 10           | 9620               | 2350            | 2d2                | 68796                             | 2145 | 2d2   | 29.47 | 25.00 |       |       |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 2d2                | LTE B12         | 20       | 700          | 1960               | 2d2             | LTE B10  | 10           | 9620               | 2350            | 44d                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       | 700          | 1960               | 44d             | LTE B10  | 10           | 9620               | 2350            | 2d2                | LTE B10                           | 20   | 68796 | 2145  | 2d2   | 29.47 | 25.00 |
| CA (2A, 2A, 1A, 3A, 6A)     | LTE B14  | 20           | 23330              | 793         | QPSK               | 1                  | 5330                 | 763             | 2d2          | LTE B12            | 20              | 1900     | 1960         | 44d                | LTE B12         | 20       |              |                    |                 |          |              |                    |                 |                    |                                   |      |       |       |       |       |       |

FCC ID: A3LSMN986U



## SAR EVALUATION REPORT



Reviewed by:

Quality Mana

**Test Dates:**  
04/22/20 – 06/07/20

**DUT Type:**  
Portable Handset

APPENDIX F  
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REV 21.3 M  
02/15/2019

#### 1.4.6 LTE Band 5 as PCC

**Table 17**  
**Maximum Output Powers**

[illegible]

FCC ID: A3LSMN986U



## SAR EVALUATION REPORT



|              |                 |
|--------------|-----------------|
| Reviewed by: | Quality Manager |
|--------------|-----------------|

**Test Dates:**  
04/22/20 – 06/07/20

**DUT Type:**  
Portable Handset

APPENDIX F:  
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REV 21.3 M  
02/15/2010

## 1.4.7 LTE Band 26 as PCC

Table 18  
Maximum Output Powers

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC 1    |              |                      |                 | SCC 2    |              |                      |                 | SCC 3    |              |                      |                 | Power                                 |                                   |       |        |       |       |
|------------------|----------|--------------|----------------------|-------|-----------|------------------|----------------------|-----------------|----------|--------------|----------------------|-----------------|----------|--------------|----------------------|-----------------|----------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|--------|-------|-------|
|                  |          |              |                      |       |           |                  |                      |                 | 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 DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |        |       |       |
| CA [25A]-25A-26A | LTE B26  | 3            | 26865                | QPSK  | 1         | 14               | 8865                 | 876.5           | 2x2      | LTE B25      | 20                   | 8365            | 1962.5   | 4x4          | LTE B25              | 20              | 8590     | 1985         | 2x2                  | -               | -                                     | -                                 | 25.00 | 25.08  |       |       |
| CA [25A]-25A-26A | LTE B26  | 3            | 26865                | 831.5 | QPSK      | 1                | 14                   | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8365     | 1962.5       | 4x4                  | LTE B25         | 20       | 8590         | 1985                 | 4x4             | -                                     | -                                 | -     | 25.06  | 25.08 |       |
| CA [25A]-26A-41A | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8365     | 1962.5       | 4x4                  | LTE B41         | 20       | 40620        | 2593                 | 2x2             | -                                     | -                                 | -     | 25.41  | 25.30 |       |
| CA [25A]-26A-41A | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8365     | 1962.5       | 4x4                  | LTE B41         | 20       | 40620        | 2593                 | 4x4             | -                                     | -                                 | -     | 25.37  | 25.30 |       |
| CA [25A]-26A-41A | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8365     | 1962.5       | 4x4                  | LTE B41         | 20       | 40620        | 2593                 | 4x4             | -                                     | -                                 | -     | 25.29  | 25.30 |       |
| CA [26A]-41C     | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B41              | 20              | 40620    | 2593         | 4x4                  | LTE B41         | 20       | 40422        | 2573.2               | 4x4             | -                                     | -                                 | -     | 25.19  | 25.30 |       |
| CA [25A]-26A-41C | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8140     | 1940         | 4x4                  | LTE B41         | 20       | 40620        | 2593                 | 2x2             | LTE B41                               | 20                                | 40422 | 2573.2 | 25.39 | 25.30 |
| CA [25A]-26A-41C | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8140     | 1940         | 2x2                  | LTE B41         | 20       | 40620        | 2593                 | 4x4             | LTE B41                               | 20                                | 40422 | 2573.2 | 25.28 | 25.30 |
| CA [25A]-26A-41C | LTE B26  | 10           | 26865                | 831.5 | QPSK      | 1                | 0                    | 8865            | 876.5    | 2x2          | LTE B25              | 20              | 8140     | 1940         | 4x4                  | LTE B41         | 20       | 40620        | 2593                 | 4x4             | LTE B41                               | 20                                | 40422 | 2573.2 | 25.43 | 25.30 |

|                                    |                                                                                                                                                                                                       |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  PCTEST<br>Proud to be part of  | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                                                                                                                                         |                       |                                                                                       | APPENDIX F:<br>Page 11 of 17    |

#### 1.4.8 LTE Band 66 as PCC

**Table 19**  
**Maximum Output Powers**

[illegible]

|                                           |                                                                                                                                                                                                                                                 |                              |                                                                                       |                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                        |  <b>PCTEST</b><br><small>Proud to be part of the</small>  <b>QUALCOMM</b> | SAR EVALUATION REPORT        |  | Reviewed by:<br>Quality Manager |
| <b>Test Dates:</b><br>04/22/20 – 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                                                                                                                            | APPENDIX F:<br>Page 13 of 17 |                                                                                       |                                 |

| Combination | ACC Band | PCB Band | PCB Band | SSC |  |  |  |  |  |  |  |  |  | SSC 1 |  |  |  |  |  |  |  |  |  | SSC 2 |  |  |  |  |  |  |  |  |  | SSC 3 |  |  |  |  |  |  |  |  |  | SSC 4 |  |  |  |  |  |  |  |  |  | SSC 5 |  |  |  |  |  |  |  |  |  | SSC 6 |  |  |  |  |  |  |  |  |  | SSC 7 |  |  |  |  |  |  |  |  |  | SSC 8 |  |  |  |  |  |  |  |  |  | SSC 9 |  |  |  |  |  |  |  |  |  | SSC 10 |  |  |  |  |  |  |  |  |  | SSC 11 |  |  |  |  |  |  |  |  |  | SSC 12 |  |  |  |  |  |  |  |  |  | SSC 13 |  |  |  |  |  |  |  |  |  | SSC 14 |  |  |  |  |  |  |  |  |  | SSC 15 |  |  |  |  |  |  |  |  |  | SSC 16 |  |  |  |  |  |  |  |  |  | SSC 17 |  |  |  |  |  |  |  |  |  | SSC 18 |  |  |  |  |  |  |  |  |  | SSC 19 |  |  |  |  |  |  |  |  |  | SSC 20 |  |  |  |  |  |  |  |  |  | SSC 21 |  |  |  |  |  |  |  |  |  | SSC 22 |  |  |  |  |  |  |  |  |  | SSC 23 |  |  |  |  |  |  |  |  |  | SSC 24 |  |  |  |  |  |  |  |  |  | SSC 25 |  |  |  |  |  |  |  |  |  | SSC 26 |  |  |  |  |  |  |  |  |  | SSC 27 |  |  |  |  |  |  |  |  |  | SSC 28 |  |  |  |  |  |  |  |  |  | SSC 29 |  |  |  |  |  |  |  |  |  | SSC 30 |  |  |  |  |  |  |  |  |  | SSC 31 |  |  |  |  |  |  |  |  |  | SSC 32 |  |  |  |  |  |  |  |  |  | SSC 33 |  |  |  |  |  |  |  |  |  | SSC 34 |  |  |  |  |  |  |  |  |  | SSC 35 |  |  |  |  |  |  |  |  |  | SSC 36 |  |  |  |  |  |  |  |  |  | SSC 37 |  |  |  |  |  |  |  |  |  | SSC 38 |  |  |  |  |  |  |  |  |  | SSC 39 |  |  |  |  |  |  |  |  |  | SSC 40 |  |  |  |  |  |  |  |  |  | SSC 41 |  |  |  |  |  |  |  |  |  | SSC 42 |  |  |  |  |  |  |  |  |  | SSC 43 |  |  |  |  |  |  |  |  |  | SSC 44 |  |  |  |  |  |  |  |  |  | SSC 45 |  |  |  |  |  |  |  |  |  | SSC 46 |  |  |  |  |  |  |  |  |  | SSC 47 |  |  |  |  |  |  |  |  |  | SSC 48 |  |  |  |  |  |  |  |  |  | SSC 49 |  |  |  |  |  |  |  |  |  | SSC 50 |  |  |  |  |  |  |  |  |  | SSC 51 |  |  |  |  |  |  |  |  |  | SSC 52 |  |  |  |  |  |  |  |  |  | SSC 53 |  |  |  |  |  |  |  |  |  | SSC 54 |  |  |  |  |  |  |  |  |  | SSC 55 |  |  |  |  |  |  |  |  |  | SSC 56 |  |  |  |  |  |  |  |  |  | SSC 57 |  |  |  |  |  |  |  |  |  | SSC 58 |  |  |  |  |  |  |  |  |  | SSC 59 |  |  |  |  |  |  |  |  |  | SSC 60 |  |  |  |  |  |  |  |  |  | SSC 61 |  |  |  |  |  |  |  |  |  | SSC 62 |  |  |  |  |  |  |  |  |  | SSC 63 |  |  |  |  |  |  |  |  |  | SSC 64 |  |  |  |  |  |  |  |  |  | SSC 65 |  |  |  |  |  |  |  |  |  | SSC 66 |  |  |  |  |  |  |  |  |  | SSC 67 |  |  |  |  |  |  |  |  |  | SSC 68 |  |  |  |  |  |  |  |  |  | SSC 69 |  |  |  |  |  |  |  |  |  | SSC 70 |  |  |  |  |  |  |  |  |  | SSC 71 |  |  |  |  |  |  |  |  |  | SSC 72 |  |  |  |  |  |  |  |  |  | SSC 73 |  |  |  |  |  |  |  |  |  | SSC 74 |  |  |  |  |  |  |  |  |  | SSC 75 |  |  |  |  |  |  |  |  |  | SSC 76 |  |  |  |  |  |  |  |  |  | SSC 77 |  |  |  |  |  |  |  |  |  | SSC 78 |  |  |  |  |  |  |  |  |  | SSC 79 |  |  |  |  |  |  |  |  |  | SSC 80 |  |  |  |  |  |  |  |  |  | SSC 81 |  |  |  |  |  |  |  |  |  | SSC 82 |  |  |  |  |  |  |  |  |  | SSC 83 |  |  |  |  |  |  |  |  |  | SSC 84 |  |  |  |  |  |  |  |  |  | SSC 85 |  |  |  |  |  |  |  |  |  | SSC 86 |  |  |  |  |  |  |  |  |  | SSC 87 |  |  |  |  |  |  |  |  |  | SSC 88 |  |  |  |  |  |  |  |  |  | SSC 89 |  |  |  |  |  |  |  |  |  | SSC 90 |  |  |  |  |  |  |  |  |  | SSC 91 |  |  |  |  |  |  |  |  |  | SSC 92 |  |  |  |  |  |  |  |  |  | SSC 93 |  |  |  |  |  |  |  |  |  | SSC 94 |  |  |  |  |  |  |  |  |  | SSC 95 |  |  |  |  |  |  |  |  |  | SSC 96 |  |  |  |  |  |  |  |  |  | SSC 97 |  |  |  |  |  |  |  |  |  | SSC 98 |  |  |  |  |  |  |  |  |  | SSC 99 |  |  |  |  |  |  |  |  |  | SSC 100 |  |  |  |  |  |  |  |  |  | SSC 101 |  |  |  |  |  |  |  |  |  | SSC 102 |  |  |  |  |  |  |  |  |  | SSC 103 |  |  |  |  |  |  |  |  |  | SSC 104 |  |  |  |  |  |  |  |  |  | SSC 105 |  |  |  |  |  |  |  |  |  | SSC 106 |  |  |  |  |  |  |  |  |  | SSC 107 |  |  |  |  |  |  |  |  |  | SSC 108 |  |  |  |  |  |  |  |  |  | SSC 109 |  |  |  |  |  |  |  |  |  | SSC 110 |  |  |  |  |  |  |  |  |  | SSC 111 |  |  |  |  |  |  |  |  |  | SSC 112 |  |  |  |  |  |  |  |  |  | SSC 113 |  |  |  |  |  |  |  |  |  | SSC 114 |  |  |  |  |  |  |  |  |  | SSC 115 |  |  |  |  |  |  |  |  |  | SSC 116 |  |  |  |  |  |  |  |  |  | SSC 117 |  |  |  |  |  |  |  |  |  | SSC 118 |  |  |  |  |  |  |  |  |  | SSC 119 |  |  |  |  |  |  |  |  |  | SSC 120 |  |  |  |  |  |  |  |  |  | SSC 121 |  |  |  |  |  |  |  |  |  | SSC 122 |  |  |  |  |  |  |  |  |  | SSC 123 |  |  |  |  |  |  |  |  |  | SSC 124 |  |  |  |  |  |  |  |  |  | SSC 125 |  |  |  |  |  |  |  |  |  | SSC 126 |  |  |  |  |  |  |  |  |  | SSC 127 |  |  |  |  |  |  |  |  |  | SSC 128 |  |  |  |  |  |  |  |  |  | SSC 129 |  |  |  |  |  |  |  |  |  | SSC 130 |  |  |  |  |  |  |  |  |  | SSC 131 |  |  |  |  |  |  |  |  |  | SSC 132 |  |  |  |  |  |  |  |  |  | SSC 133 |  |  |  |  |  |  |  |  |  | SSC 134 |  |  |  |  |  |  |  |  |  | SSC 135 |  |  |  |  |  |  |  |  |  | SSC 136 |  |  |  |  |  |  |  |  |  | SSC 137 |  |  |  |  |  |  |  |  |  | SSC 138 |  |  |  |  |  |  |  |  |  | SSC 139 |  |  |  |  |  |  |  |  |  | SSC 140 |  |  |  |  |  |  |  |  |  | SSC 141 |  |  |  |  |  |  |  |  |  | SSC 142 |  |  |  |  |  |  |  |  |  | SSC 143 |  |  |  |  |  |  |  |  |  | SSC 144 |  |  |  |  |  |  |  |  |  | SSC 145 |  |  |  |  |  |  |  |  |  | SSC 146 |  |  |  |  |  |  |  |  |  | SSC 147 |  |  |  |  |  |  |  |  |  | SSC 148 |  |  |  |  |  |  |  |  |  | SSC 149 |  |  |  |  |  |  |  |  |  | SSC 150 |  |  |  |  |  |  |  |  |  | SSC 151 |  |  |  |  |  |  |  |  |  | SSC 152 |  |  |  |  |  |  |  |  |  | SSC 153 |  |  |  |  |  |  |  |  |  | SSC 154 |  |  |  |  |  |  |  |  |  | SSC 155 |  |  |  |  |  |  |  |  |  | SSC 156 |  |  |  |  |  |  |  |  |  | SSC 157 |  |  |  |  |  |  |  |  |  | SSC 158 |  |  |  |  |  |  |  |  |  | SSC 159 |  |  |  |  |  |  |  |  |  | SSC 160 |  |  |  |  |  |  |  |  |  | SSC 161 |  |  |  |  |  |  |  |  |  | SSC 162 |  |  |  |  |  |  |  |  |  | SSC 163 |  |  |  |  |  |  |  |  |  | SSC 164 |  |  |  |  |  |  |  |  |  | SSC 165 |  |  |  |  |  |  |  |  |  | SSC 166 |  |  |  |  |  |  |  |  |  | SSC 167 |  |  |  |  |  |  |  |  |  | SSC 168 |  |  |  |  |  |  |  |  |  | SSC 169 |  |  |  |  |  |  |  |  |  | SSC 170 |  |  |  |  |  |  |  |  |  | SSC 171 |  |  |  |  |  |  |  |  |  | SSC 172 |  |  |  |  |  |  |  |  |  | SSC 173 |  |  |  |  |  |  |  |  |  | SSC 174 |  |  |  |  |  |  |  |  |  | SSC 175 |  |  |  |  |  |  |  |  |  | SSC 176 |  |  |  |  |  |  |  |  |  | SSC 177 |  |  |  |  |  |  |  |  |  | SSC 178 |  |  |  |  |  |  |  |  |  | SSC 179 |  |  |  |  |  |  |  |  |  | SSC 180 |  |  |  |  |  |  |  |  |  | SSC 181 |  |  |  |  |  |  |  |  |  | SSC 182 |  |  |  |  |  |  |  |  |  | SSC 183 |  |  |  |  |  |  |  |  |  | SSC 184 |  |  |  |  |  |  |  |  |  | SSC 185 |  |  |  |  |  |  |  |  |  | SSC 186 |  |  |  |  |  |  |  |  |  | SSC 187 |  |  |  |  |  |  |  |  |  | SSC 188 |  |  |  |  |  |  |  |  |  | SSC 189 |  |  |  |  |  |  |  |  |  | SSC 190 |  |  |  |  |  |  |  |  |  | SSC 191 |  |  |  |  |  |  |  |  |  | SSC 192 |  |  |  |  |  |  |  |  |  | SSC 193 |  |  |  |  |  |  |  |  |  | SSC 194 |  |  |  |  |  |  |  |  |  | SSC 195 |  |  |  |  |  |  |  |  |  | SSC 196 |  |  |  |  |  |  |  |  |  | SSC 197 |  |  |  |  |  |  |  |  |  | SSC 198 |  |  |  |  |  |  |  |  |  | SSC 199 |  |  |  |  |  |  |  |  |  | SSC 200 |  |  |  |  |  |  |  |  |  | SSC 201 |  |  |  |  |  |  |  |  |  | SSC 202 |  |  |  |  |  |  |  |  |  | SSC 203 |  |  |  |  |  |  |  |  |  | SSC 204 |  |  |  |  |  |  |  |  |  | SSC 205 |  |  |  |  |  |  |  |  |  | SSC 206 |  |  |  |  |  |  |  |  |  | SSC 207 |  |  |  |  |  |  |  |  |  | SSC 208 |  |  |  |  |  |  |  |  |  | SSC 209 |  |  |  |  |  |  |  |  |  | SSC 210 |  |  |  |  |  |  |  |  |  | SSC 211 |  |  |  |  |  |  |  |  |  | SSC 212 |  |  |  |  |  |  |  |  |  | SSC 213 |  |  |  |  |  |  |  |  |  | SSC 214 |  |  |  |  |  |  |  |  |  | SSC 215 |  |  |  |  |  |  |  |  |  | SSC 216 |  |  |  |  |  |  |  |  |  | SSC 217 |  |  |  |  |  |  |  |  |  | SSC 218 |  |  |  |  |  |  |  |  |  | SSC 219 |  |  |  |  |  |  |  |  |  | SSC 220 |  |  |  |  |  |  |  |  |  | SSC 221 |  |  |  |  |  |  |  |  |  | SSC 222 |  |  |  |  |  |  |  |  |  | SSC 223 |  |  |  |  |  |  |  |  |  | SSC 224 |  |  |  |  |  |  |  |  |  | SSC 225 |  |  |  |  |  |  |  |  |  | SSC 226 |  |  |  |  |  |  |  |  |  | SSC 227 |  |  |  |  |  |  |  |  |  | SSC 228 |  |  |  |  |  |  |  |  |  | SSC 229 |  |  |  |  |  |  |  |  |  | SSC 230 |  |  |  |  |  |  |  |  |  | SSC 231 |  |  |  |  |  |  |  |  |  | SSC 232 |  |  |  |  |  |  |  |  |  | SSC 233 |  |  |  |  |  |  |  |  |  | SSC 234 |  |  |  |  |  |  |  |  |  | SSC 235 |  |  |  |  |  |  |  |  |  | SSC 236 |  |  |  |  |  |  |  |  |  | SSC 237 |  |  |  |  |  |  |  |  |  | SSC 238 |  |  |  |  |  |  |  |  |  | SSC 239 |  |  |  |  |  |  |  |  |  | SSC 240 |  |  |  |  |  |  |  |  |  | SSC 241 |  |  |  |  |  |  |  |  |  | SSC 242 |  |  |  |  |  |  |  |  |  | SSC 243 |  |  |  |  |  |  |  |  |  | SSC 244 |  |  |  |  |  |  |  |  |  | SSC 245 |  |  |  |  |  |  |  |  |  | SSC 246 |  |  |  |  |  |  |  |  |  | SSC 247 |  |  |  |  |  |  |  |  |  | SSC 248 |  |  |  |  |  |  |  |  |  | SSC 249 |  |  |  |  |  |  |  |  |  | SSC 250 |  |  |  |  |  |  |  |  |  | SSC 251 |  |  |  |  |  |  |  |  |  | SSC 252 |  |  |  |  |  |  |  |  |  | SSC 253 |  |  |  |  |  |  |  |  |  | SSC 254 |  |  |  |  |  |  |  |  |  | SSC 255 |  |  |  |  |  |  |  |  |  | SSC 256 |  |  |  |  |  |  |  |  |  | SSC 257 |  |  |  |  |  |  |  |  |  | SSC 258 |  |  |  |  |  |  |  |  |  | SSC 259 |  |  |  |  |  |  |  |  |  | SSC 260 |  |  |  |  |  |  |  |  |  | SSC 261 |  |  |  |  |  |  |  |  |  | SSC 262 |  |  |  |  |  |  |  |  |  | SSC 263 |  |  |  |  |  |  |  |  |  | SSC 264 |  |  |  |  |  |  |  |  |  | SSC 265 |  |  |  |  |  |  |  |  |  | SSC 266 |  |  |  |  |  |  |  |  |  | SSC 267 |  |  |  |  |  |  |  |  |  | SSC 268 |  |  |  |  |  |  |  |  |  | SSC 269 |  |  |  |  |  |  |  |  |  | SSC 270 |  |  |  |  |  |  |  |  |  | SSC 271 |  |  |  |  |  |  |  |  |  | SSC 272 |  |  |  |  |  |  |  |  |  | SSC 273 |  |  |  |  |  |  |  |  |  | SSC 274 |  |  |  |  |  |  |  |  |  | SSC 275 |  |  |  |  |  |  |  |  |  | SSC 276 |  |  |  |  |  |  |  |  |  | SSC 277 |  |  |  |  |  |  |  |  |  | SSC 278 |  |  |  |  |  |  |  |  |  | SSC 279 |  |  |  |  |  |  |  |  |  | SSC 280 |  |  |  |  |  |  |  |  |  | SSC 281 |  |  |  |  |  |  |  |  |  | SSC 282 |  |  |  |  |  |  |  |  |  | SSC 283 |  |  |  |  |  |  |  |  |  | SSC 284 |  |  |  |  |  |  |  |  |  | SSC 285 |  |  |  |  |  |  |  |  |  | SSC 286 |  |  |  |  |  |  |  |  |  | SSC 287 |  |  |  |  |  |  |  |  |  | SSC 288 |  |  |  |  |  |  |  |  |  | SSC 289 |  |  |  |  |  |  |  |  |  | SSC 290 |  |  |  |  |  |  |  |  |  | SSC 291 |  |  |  |  |  |  |  |  |  | SSC 292 |  |  |  |  |  |  |  |  |  | SSC 293 |  |  |  |  |  |  |  |  |  | SSC 294 |  |  |  |  |  |  |  |  |  | SSC 295 |  |  |  |  |  |  |  |  |  | SSC 296 |  |  |  |  |  |  |  |  |  | SSC 297 |  |  |  |  |  |  |  |  |  | SSC 298 |  |  |  |  |  |  |  |  |  | SSC 299 |  |  |  |  |  |  |  |  |  | SSC 300 |  |  |  |  |  |  |  |  |  | SSC 301 |  |  |  |  |  |  |  |  |  | SSC 302 |  |  |  |  |  |  |  |  |  | SSC 303 |  |  |  |  |  |  |  |  |  | SSC 304 |  |  |  |  |  |  |  |  |  | SSC 305 |  |  |  |  |  |  |  |  |  | SSC 306 |  |  |  |  |  |  |  |  |  | SSC 307 |  |  |  |  |  |  |  |  |  | SSC 308 |  |  |  |  |  |  |  |  |  | SSC 309 |  |  |  |  |  |  |  |  |  | SSC 310 |  |  |  |  |  |  |  |  |  | SSC 311 |  |  |  |  |  |  |  |  |  | SSC 312 |  |  |  |  |  |  |  |  |  | SSC 313 |  |  |  |  |  |  |  |  |  | SSC 314 |  |  |  |  |  |  |  |  |  | SSC 315 |  |  |  |  |  |  |  |  |  | SSC 316 |  |  |  |  |  |  |  |  |  | SSC 317 |  |  |  |  |  |  |  |  |  | SSC 318 |  |  |  |  |  |  |  |  |  | SSC 319 |  |  |  |  |  |  |  |  |  | SSC 320 |  |  |  |  |  |  |  |  |  | SSC 321 |  |  |  |  |  |  |  |  |  | SSC 322 |  |  |  |  |  |  |  |  |  | SSC 323 |  |  |  |  |  |  |  |  |  | SSC 324 |  |  |  |  |  |  |  |  |  | SSC 325 |  |  |  |  |  |  |  |  |  | SSC 326 |  |  |  |  |  |  |  |  |  | SSC 327 |  |  |  |  |  |  |  |  |  | SSC 328 |  |  |  |  |  |  |  |  |  | SSC 329 |  |  |  |  |  |  |  |  |  | SSC 330 |  |  |  |  |  |  |  |  |  | SSC 331 |  |  |  |  |  |  |  |  |  | SSC 332 |  |  |  |  |  |  |  |  |  | SSC 333 |  |  |  |  |  |  |  |  |  | SSC 334 |  |  |  |  |  |  |  |  |  | SSC 335 |  |  |  |  |  |  |  |  |  | SSC 336 |  |  |  |  |  |  |  |  |  | SSC 337 |  |  |  |  |  |  |  |  |  | SSC 338 |  |  |  |  |  |  |  |  |  | SSC 339 |  |  |  |  |  |  |  |  |  | SSC 340 |  |  |  |  |  |  |  |  |  | SSC 341 |  |  |  |  |  |  |  |  |  | SSC 342 |  |  |  |  |  |  |  |  |  | SSC 343 |  |  |  |  |  |  |  |  |  | SSC 344 |  |  |  |  |  |  |  |  |  | SSC 345 |  |  |  |  |  |  |  |  |  | SSC 346 |  |  |  |  |  |  |  |  |  | SSC 347 |  |  |  |  |  |  |  |  |  | SSC 348 |  |  |  |  |  |  |  |  |  | SSC 349 |  |  |  |  |  |  |  |  |  | SSC 350 |  |  |  |  |  |  |  |  |  | SSC 351 |  |  |  |  |  |  |  |  |  | SSC 352 |  |  |  |  |  |  |  |  |  | SSC 353 |  |  |  |  |  |  |  |  |  | SSC 354 |  |  |  |  |  |  |  |  |  | SSC 355 |  |  |  |  |  |  |  |  |  | SSC 356 |  |  |  |  |  |  |  |  |  | SSC 357 |  |  |  |  |  |  |  |  |  | SSC 358 |  |  |  |  |  |  |  |  |  | SSC 359 |  |  |  |  |  |  |  |  |  | SSC 360 |  |  |  |  |  |  |  |  |  | SSC 361 |  |  |  |  |  |  |  |  |  | SSC 362 |  |  |  |  |  |  |  |  |  | SSC 363 |  |  |  |  |  |  |  |  |  | SSC 364 |  |  |  |  |  |  |  |  |  | SSC 365 |  |  |  |  |  |  |  |  |  | SSC 366 |  |  |  |  |  |  |  |  |  | SSC 367 |  |  |  |  |  |  |  |  |  | SSC 368 |  |  |  |  |  |  |  |  |  | SSC 369 |  |  |  |  |  |  |  |  |  | SSC 370 |  |  |  |  |  |  |  |  |  | SSC 371 |  |  |  |  |  |  |  |  |  | SSC 372 |  |  |  |  |  |  |  |  |  | SSC 373 |  |  |  |  |  |  |  |  |  | SSC 374 |  |  |  |  |  |  |  |  |  | SSC 375 |  |  |  |  |  |  |  |  |  | SSC 376 |  |  |  |  |  |  |  |  |  | SSC 377 |  |  |  |  |  |  |  |  |  | SSC 378 |  |  |  |  |  |  |  |  |  | SSC 379 |  |  |  |  |  |  |  |  |  | SSC 380 |  |  |  |  |  |  |  |  |  | SSC 381 |  |  |  |  |  |  |  |  |  | SSC 382 |  |  |  |  |  |  |  |  |  | SSC 383 |  |  |  |  |  |  |  |  |  | SSC 384 |  |  |  |  |  |  |  |  |  | SSC 385 |  |  |  |  |  |  |  |  |  | SSC 386 |  |  |  |  |  |  |  |  |  | SSC 387 |  |  |  |  |  |  |  |  |  | SSC 388 |  |  |  |  |  |  |  |  |  | SSC 389 |  |  |  |  |  |  |  |  |  | SSC 390 |  |  |  |  |  |  |  |  |  | SSC 391 |  |  |  |  |  |  |  |  |  | SSC 392 |  |  |  |  |  |  |  |  |  | SSC 393 |  |  |  |  |  |  |  |  |  | SSC 394 |  |  |  |  |  |  |  |  |  | SSC 395 |  |  |  |  |  |  |  |  |  | SSC 396 |  |  |  |  |  |  |  |  |  | SSC 397 |  |  |  |  |  |  |  |  |  | SSC 398 |  |  |  |  |  |  |  |  |  | SSC 399 |  |  |  |  |  |  |  |  |  | SSC 400 |  |  |  |  |  |  |  |  |  | SSC 401 |  |  |  |  |  |  |  |  |  | SSC 402 |  |  |  |  |  |  |  |  |  | SSC 403 |  |  |  |  |  |  |  |  |  | SSC 404 |  |  |  |  |  |  |  |  |  | SSC 405 |  |  |  |  |  |  |  |  |  | SSC 406 |  |  |  |  |  |  |  |  |  | SSC 407 |  |  |  |  |  |  |  |  |  | SSC 408 |  |  |  |  |  |  |  |  |  | SSC 409 |  |  |  |  |  |  |  |  |  | SSC 410 |  |  |  |  |  |  |  |  |  | SSC 411 |  |  |  |  |  |  |  |  |  | SSC 412 |  |  |  |  |  |  |  |  |  | SSC 413 |  |  |  |  |  |  |  |  |  | SSC 414 |  |  |  |  |  |  |  |  |  | SSC 415 |  |  |  |  |  |  |  |  |  | SSC 416 |  |  |  |  |  |  |  |  |  | SSC 417 |  |  |  |  |  |  |  |  |  | SSC 418 |  |  |  |  |  |  |  |  |  | SSC 419 |  |  |  |  |  |  |  |  |  | SSC 420 |  |  |  |  |  |  |  |  |  | SSC 421 |  |  |  |  |  |  |  |  |  | SSC 422 |  |  |  |  |  |  |  |  |  | SSC 423 |  |  |  |  |  |  |  |  |  | SSC 424 |  |  |  |  |  |  |  |  |  | SSC 425 |  |  |  |  |  |  |  |  |  | SSC 426 |  |  |  |  |  |  |  |  |  | SSC 427 |  |  |  |  |  |  |  |  |  | SSC 428 |  |  |  |  |  |  |  |  |  | SSC 429 |  |  |  |  |  |  |  |  |  | SSC 430 |  |  |  |  |  |  |  |  |  | SSC 431 |  |  |  |  |  |  |  |  |  | SSC 432 |  |  |  |  |  |  |  |  |  | SSC 433 |  |  |  |  |  |  |  |  |  | SSC 434 |  |  |  |  |  |  |  |  |  | SSC 435 |  |  |  |  |  |  |  |  |  | SSC 436 |  |  |  |  |  |  |  |  |  | SSC 437 |  |  |  |  |  |  |  |  |  | SSC 438 |  |  |  |  |  |  |  |  |  | SSC 439 |  |  |  |  |  |  |  |  |  | SSC 440 |  |  |  |  |  |  |  |  |  | SSC 441 |  |  |  |  |  |  |  |  |  | SSC 442 |  |  |  |  |  |  |  |  |  | SSC 443 |  |  |  |  |  |  |  |  |  | SSC 444 |  |  |  |  |  |  |  |  |  | SSC 445 |  |  |  |  |  |  |  |  |  | SSC 446 |  |  |  |  |  |  |  |  |  | SSC 447 |  |  |  |  |  |  |  |  |  | SSC 448 |  |  |  |  |  |  |  |  |  | SSC 449 |  |  |  |  |  |  |  |  |  | SSC 450 |  |  |  |  |  |  |  |  |  | SSC 451 |  |  |  |  |  |  |  |  |  | SSC 452 |  |  |  |  |  |  |  |  |  | SSC 453 |  |  |  |  |  |  |  |  |  | SSC 454 |  |  |  |  |  |  |  |  |  | SSC 455 |  |  |  |  |  |  |  |  |  | SSC 456 |  |  |  |  |  |  |  |  |  | SSC 457 |  |  |  |  |  |  |  |  |  | SSC 458 |  |  |  |  |  |  |  |  |  | SSC 459 |  |  |  |  |  |  |  |  |  | SSC 460 |  |  |  |  |  |  |  |  |  | SSC 461 |  |  |  |  |  |  |  |  |  | SSC 462 |  |  |  |  |  |  |  |  |  | SSC 463 |  |  |  |  |  |  |  |  |  | SSC 464 |  |  |  |  |  |  |  |  |  | SSC 465 |  |  |  |  |  |  |  |  |  | SSC 466 |  |  |  |  |  |  |  |  |  | SSC 467 |  |  |  |  |  |  |  |  |  | SSC 468 |  |  |  |  |  |  |  |  |  | SSC 469 |  |  |  |  |  |  |  |  |  | SSC 470 |  |  |  |  |  |  |  |  |  | SSC 471 |  |  |  |  |  |  |  |  |  | SSC 472 |  |  |  |  |  |  |  |  |  | SSC 473 |  |  |  |  |  |  |  |  |  | SSC 474 |  |  |  |  |  |  |  |  |  | SSC 475 |  |  |  |  |  |  |  |  |  | SSC 476 |  |  |  |  |  |  |  |  |  | SSC 477 |  |  |  |  |  |  |  |  |  | SSC 478 |  |  |  |  |  |  |  |  |  | SSC 479 |  |  |  |  |  |  |  |  |  | SSC 480 |  |  |  |  |  |  |  |  |  | SSC 481 |  |  |  |  |  |  |  |  |  | SSC 482 |  |  |  |  |  |  |  |  |  | SSC 483 |  |  |  |  |  |  |  |  |  | SSC 484 |  |  |  |  |  |  |  |  |  | SSC 485 |  |  |  |  |  |  |  |  |  | SSC 486 |  |  |  |  |  |  |  |  |  | SSC 487 |  |  |  |  |  |  |  |  |  | SSC 488 |  |  |  |  |  |  |  |  |  | SSC 489 |  |  |  |  |  |  |  |  |  | SSC 490 |  |  |  |  |  |  |  |  |  | SSC 491 |  |  |  |  |  |  |  |  |  | SSC 492 |  |  |  |  |  |  |  |  |  | SSC 493 |  |  |  |  |  |  |  |  |  | SSC 494 |  |  |  |  |  |  |  |  |  | SSC 495 |  |  |  |  |  |  |  |  |  | SSC 496 |  |  |  |  |  |  |  |  |  | SSC 497 |  |  |  |  |  |  |  |  |  | SSC 498 |  |  |  |  |  |  |  |  |  | SSC 499 |  |  |  |  |  |  |  |  |  | SSC 500 |  |  |  |  |  |  |  |  |  | SSC 501 |  |  |  |  |  |  |  |  |  | SSC 502 |  |  |  |  |  |  |  |  |  | SSC 503 |  |  |  |  |  |  |  |  |  | SSC 504 |  |  |  |  |  |  |  |  |  | SSC 505 |  |  |  |  |  |  |  |  |  | SSC 506 |  |  |  |  |  |  |  |  |  | SSC 507 |  |  |  |  |  |  |  |  |  | SSC 508 |  |  |  |  |  |  |  |  |  | SSC 509 |  |  |  |  |  |  |  |  |  | SSC 510 |  |  |  |  |  |  |  |  |  | SSC 511 |  |  |  |  |  |  |  |  |  | SSC 512 |  |  |  |  |  |  |  |  |  | SSC 513 |  |  |  |  |  |  |  |  |  | SSC 514 |  |  |  |  |  |  |  |  |  | SSC 515 |  |  |  |  |  |  |  |  |  | SSC 516 |  |  |  |  |  |  |  |  |  | SSC 517 |  |  |  |  |  |  |  |  |  | SSC 518 |  |  |  |  |  |  |  |  |  | SSC 519 |  |  |  |  |  |  |  |  |  | SSC 520 |  |  |  |  |  |  |  |  |  | SSC 521 |  |  |  |  |  |  |  |  |  | SSC 522 |  |  |  |  |  |  |  |  |  | SSC 523 |  |  |  |  |  |  |  |  |  | SSC 524 |  |  |  |  |  |  |  |  |  | SSC 525 |  |  |  |  |  |  |  |  |  | SSC 526 |  |  |  |  |  |  |  |  |  | SSC 527 |  |  |  |  |  |  |  |  |  | SSC 528 |  |  |  |  |  |  |  |  |  | SSC 529 |  |  |  |  |  |  |  |  |  | SSC 530 |  |  |  |  |  |  |  |  |  | SSC 531 |  |  |  |  |  |  |  |  |  | SSC 532 |  |  |  |  |  |  |  |  |  | SSC 533 |  |  |  |  |  |  |  |  |  | SSC 534 |  |  |  |  |  |  |  |  |  | SSC 535 |  |  |  |  |  |  |  |  |  | SSC 536 |  |  |  |  |  |  |  |  |  | SSC 537 |  |  |  |  |  |  |  |  |  | SSC 538 |  |  |  |  |  |  |  |  |  | SSC 539 |  |  |  |  |  |  |  |  |  | SSC 540 |  |  |  |  |  |  |  |  |  | SSC 541 |  |  |  |  |  |  |  |  |  | SSC 542 |  |  |  |  |  |  |  |  |  | SSC 543 |  |  |  |  |  |  |  |  |  | SSC 544 |  |  |  |  |  |  |  |  |  | SSC 545 |  |  |  |  |  |  |  |  |  | SSC 546 |  |  |  |  |  |  |  |  |  | SSC 547 |  |  |  |  |  |  |  |  |  | SSC 548 |  |  |  |  |  |  |  |  |  | SSC 549 |  |  |  |  |  |  |  |  |  | SSC 550 |  |  |  |  |  |  |  |  |  | SSC 551 |  |  |  |  |  |  |  |  |  | SSC 552 |  |  |  |  |  |  |  |  |  | SSC 553 |  |  |  |  |  |  |  |  |  | SSC 554 |  |  |  |  |  |  |  |  |  | SSC 555 |  |  |  |  |  |  |  |  |  | SSC 556 |  |  |  |  |  |  |  |  |  | SSC 557 |  |  |  |  |  |  |  |  |  | SSC 558 |  |  |  |  |  |  |  |  |  | SSC 559 |  |  |  |  |  |  |  |  |  | SSC 560 |  |  |  |  |  |  |  |  |  | SSC 561 |  |  |  |  |  |  |  |  |  | SSC 562 |  |  |  |  |  |  |  |  |  | SSC 563 |  |  |  |  |  |  |  |  |  | SSC 564 |  |  |  |  |  |  |  |  |  | SSC 565 |  |  |  |  |  |  |  |  |  | SSC 566 |  |  |  |  |  |  |  |  |  | SSC 567 |  |  |  |  |  |  |  |  |  | SSC 568 |  |  |  |  |  |  |  |  |  | SSC 569 |  |  |  |  |  |  |  |  |  | SSC 570 |  |  |  |  |  |  |  |  |  | SSC 571 |  |  |  |  |  |  |  |  |  | SSC 572 |  |  |  |  |  |  |  |  |  | SSC 573 |  |  |  |  |  |  |  |  |  | SSC 574 |  |  |  |  |  |  |  |  |  | SSC 575 |  |  |  |  |  |  |  |  |  | SSC 576 |  |  |  |  |  |  |  |  |  | SSC 577 |  |  |  |  |  |  |  |  |  | SSC 578 |  |  |  |  |  |  |  |  |  | SSC 579 |  |  |  |  |  |  |  |  |  | SSC 580 |  |  |  |  |  |  |  |  |  | SSC 581 |  |  |  |  |  |  |  |  |  | SSC 582 |  |  |  |  |  |  |  |  |  | SSC 583 |  |  |  |  |  |  |  |  |  | SSC 584 |  |  |  |  |  |  |  |  |  | SSC 585 |  |  |  |  |  |  |  |  |  | SSC 586 |  |  |  |  |  |  |  |  |  | SSC 587 |  |  |  |  |  |  |  |  |  | SSC 588 |  |  |  |  |  |  |  |  |  | SSC 589 |  |  |  |  |  |  |  |  |  | SSC 590 |  |  |  |  |  |  |  |  |  | SSC 591 |  |  |  |  |  |  |  |  |  | SSC 592 |  |  |  |  |  |  |  |  |  | SSC 593 |  |  |  |  |  |  |  |  |  | SSC 594 |  |  |  |  |  |  |  |  |  | SSC 595 |  |  |  |  |  |  |  |  |  | SSC 596 |  |  |  |  |  |  |  |  |  | SSC 597 |  |  |  |  |  |  |  |  |  | SSC 598 |  |  |  |  |  |  |  |  |  | SSC 599 |  |  |  |  |  |  |  |  |  | SSC 600 |  |  |  |  |  |  |  |  |  | SSC 601 |  |  |  |  |  |  |  |  |  | SSC 602 |  |  |  |  |  |  |  |  |  | SSC 603 |  |  |  |  |  |  |  |  |  | SSC 604 |  |  |  |  |  |  |  |  |  | SSC 605 |  |  |  |  |  |  |  |  |  | SSC 606 |  |  |  |  |  |  |  |  |  | SSC 607 |  |  |  |  |  |  |  |  |  | SSC 608 |  |  |  |  |  |  |  |  |  | SSC 609 |  |  |  |  |  |  |  |  |  | SSC 610 |  |  |  |  |  |  |  |  |  | SSC 611 |  |  |  |  |  |  |  |  |  | SSC 612 |  |  |  |  |  |  |  |  |  | SSC 613 |  |  |  |  |  |  |  |  |  | SSC 614 |  |  |  |  |  |  |  |  |  | SSC 615 |  |  |  |  |  |  |  |  |  | SSC 616 |  |  |  |  |  |  |  |  |  | SSC 617 |  |  |  |  |  |  |  |  |  | SSC 618 |  |  |  |  |  |  |  |  |  | SSC 619 |  |  |  |  |  |  |  |  |  | SSC 620 |  |  |  |  |  |  |  |  |  | SSC 621 |  |  |  |  |  |  |  |  |  | SSC 622 |  |  |  |  |  |  |  |  |  | SSC 623 |  |  |  |  |  |  |  |  |  | SSC 624 |  |  |  |  |  |  |  |  |  | SSC 625 |  |  |  |  |  |  |  |  |  | SSC 626 |  |  |  |  |  |  |  |  |  | SSC 627 |  |  |  |  |  |  |  |  |  | SSC 628 |  |  |  |  |  |  |  |  |  | SSC 629 |  |  |  |  |  |  |  |  |  | SSC 630 |  |  |  |  |  |  |  |  |  | SSC 631 |  |  |  |  |  |  |  |  |  | SSC 632 |  |  |  |  |  |  |  |  |  | SSC 633 |  |  |  |  |  |  |  |  |  | SSC 634 |  |  |  |  |  |  |  |  |  | SSC 635 |  |  |  |  |  |  |  |  |  | SSC 636 |  |  |  |  |  |  |  |  |  | SSC 637 |  |  |  |  |  |  |  |  |  | SSC 638 |  |  |  |  |  |  |  |  |  | SSC 639 |  |  |  |  |  |  |  |  |  | SSC 640 |  |  |  |  |  |  |  |  |  | SSC 641 |  |  |  |  |  |  |  |  |  | SSC 642 |  |  |  |  |  |  |  |  |  | SSC 643 |  |  |  |  |  |  |  |  |  | SSC 644 |  |  |  |  |  |  |  |  |  | SSC 645 |  |  |  |  |  |  |  |  |  | SSC 646 |  |  |  |  |  |  |  |  |  | SSC 647 |  |  |  |  |  |  |  |  |  | SSC 648 |  |  |  |  |  |  |  |  |  | SSC 649 |  |  |  |  |  |  |  |  |  | SSC 650 |  |  |  |  |  |  |  |  |  | SSC 651 |  |  |  |  |  |  |  |  |  | SSC 652 |  |  |  |  |  |  |  |  |  | SSC 653 |  |  |  |  |  |  |  |  |  | SSC 654 |  |  |  |  |  |  |  |  |  | SSC 655 |  |  |  |  |  |  |  |  |  | SSC 656 |  |  |  |  |  |  |  |  |  | SSC 657 |  |  |  |  |  |  |  |  |  | SSC 658 |  |  |  |  |  |  |  |  |  | SSC 659 |  |  |  |  |  |  |  |  |  | SSC 660 |  |  |  |  |  |  |  |  |  | SSC 661 |  |  |  |  |  |  |  |  |  | SSC 662 |  |  |  |  |  |  |  |  |  | SSC 663 |  |  |  |  |  |  |  |  |  | SSC 664 |  |  |  |  |  |  |  |  |  | SSC 665 |  |  |  |  |  |  |  |  |  | SSC 666 |  |  |  |  |  |  |  |  |  | SSC 667 |  |  |  |  |  |  |  |  |  | SSC 668 |  |  |  |  |  |  |  |  |  | SSC 669 |  |  |  |  |  |  |  |  |  | SSC 670 |  |  |  |  |  |  |  |  |  | SSC 671 |  |  |  |  |  |  |  |  |  | SSC 672 |  |  |  |  |  |  |  |  |  | SSC 673 |  |  |  |  |  |  |  |  |  | SSC 674 |  |  |  |  |  |  |  |  |  | SSC 675 |  |  |  |  |  |  |  |  |  | SSC 676 |  |  |  |  |  |  |  |  |  | SSC 677 |  |  |  |  |  |  |  |  |  | SSC 678 |  |  |  |  |  |  |  |  |  | SSC 679 |  |  |  |  |  |  |  |  |  | SSC 680 |  |  |  |  |  |  |  |  |  | SSC 681 |  |  |  |  |  |  |  |  |  | SSC 682 |  |  |  |  |  |  |  |  |  | SSC 683 |  |  |  |  |  |  |  |  |  | SSC 684 |  |  |  |  |  |  |  |  |  | SSC 685 |  |  |  |  |  |  |  |  |  | SSC 686 |  |  |  |  |  |  |  |  |  | SSC 687 |  |  |  |  |  |  |  |  |  | SSC 688 |  |  |  |  |  |  |  |  |  | SSC 689 |  |  |  |  |  |  |  |  |  | SSC 690 |  |  |  |  |  |  |  |  |  | SSC 691 |  |  |  |  |  |  |  |  |  | SSC 692 |  |  |  |  |  |  |  |  |  | SSC 693 |  |  |  |  |  |  |  |  |  | SSC 694 |  |  |  |  |  |  |  |  |  | SSC 695 |  |  |  |  |  |  |  |  |  | SSC 696 |  |  |  |  |  |  |  |  |  | SSC 697 |  |  |  |  |  |  |  |  |  | SSC 698 |  |  |  |  |  |  |  |  |  | SSC 699 |  |  |  |  |  |  |  |  |  | SSC 700 |  |  |  |  |  |  |  |  |  | SSC 701 |  |  |  |  |  |  |  |  |  | SSC 702 |  |  |  |  |  |  |  |  |  | SSC 703 |  |  |  |  |  |  |  |  |  | SSC 704 |  |  |  |  |  |  |  |  |  | SSC 705 |  |  |  |  |  |  |  |  |  | SSC 706 |  |  |  |  |  |  |  |  |  | SSC 707 |  |  |  |  |  |  |  |  |  | SSC 708 |  |  |  |  |  |  |  |  |  | SSC 709 |  |  |  |  |  |  |  |  |  | SSC 710 |  |  |  |  |  |  |  |  |  | SSC 711 |  |  |  |  |  |  |  |  |  | SSC 712 |  |  |  |  |  |  |  |  |  | SSC 713 |  |  |  |  |  |  |  |  |  | SSC 714 |  |  |  |  |  |  |  |  |  | SSC 715 |  |  |  |  |  |  |  |  |  | SSC 716 |  |  |  |  |  |  |  |  |  | SSC 717 |  |  |  |  |  |  |  |  |  | SSC 718 |  |  |  |  |  |  |  |  |  | SSC 719 |  |  |  |  |  |  |  |  |  | SSC 720 |  |  |  |  |  |  |  |  |  | SSC 721 |  |  |  |  |  |  |  |  |  | SSC 722 |  |  |  |  |  |  |  |  |  | SSC 723 |  |  |  |  |  |  |  |  |  | SSC 724 |  |  |  |  |  |  |  |  |  | SSC 725 |  |  |  |  |  |  |  |  |  | SSC 726 |  |  |  |  |  |  |  |  |  | SSC 727 |  |  |  |  |  |  |  |  |  | SSC 728 |  |  |  |  |  |  |  |  |  | SSC 729 |  |  |  |  |  |  |  |  |  | SSC 730 |  |  |  |  |  |  |  |  |  | SSC 731 |  |  |  |  |  |  |  |  |  | SSC 732 |  |  |  |  |  |  |  |  |  | SSC 733 |  |  |  |  |  |  |  |  |  | SSC 734 |  |  |  |  |  |  |  |  |  | SSC 735 |  |  |  |  |  |  |  |  |  | SSC 736 |  |  |  |  |  |  |  |  |  | SSC 737 |  |  |  |  |  |  |  |  |  | SSC 738 |  |  |  |  |  |  |  |  |  | SSC 739 |  |  |  |  |  |  |  |  |  | SSC 740 |  |  |  |  |  |  |  |  |  | SSC 741 |  |  |  |  |  |  |  |  |  | SSC 742 |  |  |  |  |  |  |  |  |  | SSC 743 |  |  |  |  |  |  |  |  |  | SSC 744 |  |  |  |  |  |  |  |  |  | SSC 745 |  |  |  |  |  |  |  |  |  | SSC 746 |  |  |  |  |  |  |  |  |  | SSC 747 |  |  |  |  |  |  |  |  |  | SSC 748 |  |  |  |  |  |  |  |  |  | SSC 749 |  |  |  |  |  |  |  |  |  | SSC 750 |  |  |  |  |  |  |  |  |  | SSC 751 |  |  |  |  |  |  |  |  |  | SSC 752 |  |  |  |  |  |  |  |  |  | SSC 753 |  |  |  |  |  |  |  |  |  | SSC 754 |  |  |  |  |  |  |  |  |  | SSC 755 |  |  |  |  |  |  |  |  |  | SSC 756 |  |  |  |  |  |  |  |  |  | SSC 757 |  |  |  |  |  |  |  |  |  | SSC 758 |  |  |  |  |  |  |  |  |  | SSC 759 |  |  |  |  |  |  |  |  |  | SSC 760 |  |  |  |  |  |  |  |  |  | SSC 761 |  |  |  |  |  |  |  |  |  | SSC 762 |  |  |  |  |  |  |  |  |  | SSC 763 |  |  |  |  |  |  |  |  |  | SSC 764 |  |  |  |  |  |  |  |  |  | SSC 765 |  |  |  |  |  |  |  |  |  | SSC 766 |  |  |  |  |  |  |  |  |  | SSC 767 |  |  |  |  |  |  |  |  |  | SSC 768 |  |  |  |  |  |  |  |  |  | SSC 769 |  |  |  |  |  |  |  |  |  | SSC 770 |  |  |  |  |  |  |  |  |  | SSC 771 |  |  |  |  |  |  |  |  |  | SSC 772 |  |  |  |  |  |  |  |  |  | SSC 773 |  |  |  |  |  |  |  |  |  | SSC 774 |  |  |  |  |  |  |  |  |  | SSC 775 |  |  |  |  |  |  |  |  |  | SSC 776 |  |  |  |  |  |  |  |  |  | SSC 777 |  |  |  |  |  |  |  |  |  | SSC 778 |  |  |  |  |  |  |  |  |  | SSC 779 |  |  |  |  |  |  |  |  |  | SSC 780 |  |  |  |  |  |  |  |  |  | SSC 781 |  |  |  |  |  |  |  |  |  | SSC 782 |  |  |  |  |  |  |  |  |  | SSC 783 |  |  |  |  |  |  |  |  |  | SSC 784 |  |  |  |  |  |  |  |  |  | SSC 785 |  |  |  |  |  |  |  |  |  | SSC 786 |  |  |  |  |  |  |  |  |  | SSC 787 |  |  |  |  |  |  |  |  |  | SSC 788 |  |  |  |  |  |  |  |  |  | SSC 789 |  |  |  |  |  |  |  |  |  | SSC 790 |  |  |  |  |  |  |  |  |  | SSC 791 |  |  |  |  |  |  |  |  |  | SSC 792 |  |  |  |  |  |  |  |  |  | SSC 793 |  |  |  |  |  |  |  |  |  | SSC 794 |  |  |  |  |  |  |  |  |  | SSC 795 |  |  |  |  |  |  |  |  |  | SSC 796 |  |  |  |  |  |  |  |  |  | SSC 797 |  |  |  |  |  |  |  |  |  | SSC 798 |  |  |  |  |  |  |  |  |  | SSC 799 |  |  |  |  |  |  |  |  |  | SSC 800 |  |  |  |  |  |  |  |  |  | SSC 801 |  |  |  |  |  |  |  |  |  | SSC 802 |  |  |  |  |  |  |  |  |  | SSC 803 |  |  |  |  |  |  |  |  |  | SSC 804 |  |  |  |  |  |  |  |  |  | SSC 805 |  |  |  |  |  |  |  |  |  | SSC 806 |  |  |  |  |  |  |  |  |  | SSC 807 |  |  |  |  |  |  |  |  |  | SSC 808 |  |  |  |  |  |  |  |  |  | SSC 809 |  |  |  |  |  |  |  |  |  | SSC 810 |  |  |  |  |  |  |  |  |  | SSC 811 |  |  |  |  |  |  |  |  |  | SSC 812 |  |  |  |  |  |  |  |  |  | SSC 813 |  |  |  |  |  |  |  |  |  | SSC 814 |  |  |  |  |  |  |  |  |  | SSC 815 |  |  |  |  |  |  |  |  |  | SSC 816 |  |  |  |  |  |  |  |  |  | SSC 817 |  |  |  |  |  |  |  |  |  | SSC 818 |  |  |  |  |  |  |  |  |  | SSC 819 |  |  |  |  |  |  |  |  |  | SSC 820 |  |  |  |  |  |  |  |  |  | SSC 821 |  |  |  |  |  |  |  |  |  | SSC 822 |  |  |  |  |  |  |  |  |  | SSC 823 |  |  |  |  |  |  |  |  |  | SSC 824 |  |  |  |  |  |  |  |  |  | SSC 825 |  |  |  |  |  |  |  |  |  | SSC 826 |  |  |  |  |  |  |  |  |  | SSC 827 |  |  |  |  |  |  |  |  |  | SSC 828 |  |  |  |  |  |  |  |  |  | SSC 829 |  |  |  |  |  |  |  |  |  |
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#### 1.4.10 LTE Band 30 as PCC

**Table 21**  
**Maximum Output Powers**

| Combination            | LTE B20 | PCF BW [MHz] | PCC (UL) Ch.         |      |             | PCC US BB | PCC US BB Offset | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC 1        |                      |                 |              | SCC 2                |                 |              |                      | SCC 3           |              |              |                      | SCC 4           |     |      |     | LTE Power with CA Enabled [dBm] | LTE Single Carrier Power [dBm] |     |      |       |         |    |     |      |     |       |       |
|------------------------|---------|--------------|----------------------|------|-------------|-----------|------------------|----------------------|-----------------|--------------|----------------------|-----------------|--------------|----------------------|-----------------|--------------|----------------------|-----------------|--------------|--------------|----------------------|-----------------|-----|------|-----|---------------------------------|--------------------------------|-----|------|-------|---------|----|-----|------|-----|-------|-------|
|                        |         |              | PCF (UL) Freq. [MHz] | Mod. | PCF (UL) RB |           |                  |                      |                 | SCC BW [MHz] | SCC (UL) Freq. [MHz] | DL Ant. Config. | SCC BW [MHz] | SCC (UL) Freq. [MHz] | DL Ant. Config. | SCC BW [MHz] | SCC (UL) Freq. [MHz] | DL Ant. Config. | SCC BW [MHz] | SCC (UL) Ch. | SCC (UL) Freq. [MHz] | DL Ant. Config. |     |      |     |                                 |                                |     |      |       |         |    |     |      |     |       |       |
| CA 26-26A-30A          | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 2x2          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 242          | LTE B20              | 20              | 900 | 1960 | 242 | LTE B20                         | 20                             | 900 | 1960 | 242   | LTE B20 | 20 | 900 | 1960 | 242 | 21.80 | 21.80 |
| CA 26-26A-30A-66A      | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 242             | LTE B20      | 20                   | 900             | 1960         | 242          | LTE B20              | 20              | 900 | 1960 | 242 | LTE B20                         | 20                             | 900 | 1960 | 242   | LTE B20 | 20 | 900 | 1960 | 242 | 21.85 | 21.85 |
| CA 26-26A-30A-66A-66A  | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.90 | 21.85 |
| CA 26A-26A-30A-66A     | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.80 | 21.80 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 242          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444   | LTE B20 | 20 | 900 | 1960 | 444 | 21.85 | 21.85 |
| CA 26A-26A-30A-66A-66A | LTE B20 | 5            | 27710                | 2310 | QPSK        | 1         | 24               | 9810                 | 2355            | 444          | LTE B20              | 20              | 900          | 1960                 | 444             | LTE B20      | 20                   | 900             | 1960         | 444          | LTE B20              | 20              | 900 | 1960 | 444 | LTE B20                         | 20                             | 900 | 1960 | 444</ |         |    |     |      |     |       |       |

|                                    |                                                                                                                                                      |                              |                                                                                       |                                 |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  <b>PCTEST</b><br><small>Presented by the port of the FCC</small> | SAR EVALUATION REPORT        |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                                                                                        | APPENDIX F:<br>Page 15 of 17 |                                                                                       |                                 |

#### 1.4.11 LTE Band 41 as PCC

**Table 22**  
**Maximum Output Powers**

| Combination     |         | PCC Band | PCC BW [MHz] | PCC [CA] Freq. [MHz] | PCC  |       |              |         | SCC 1                |                 |          |              | SCC 2   |                      |                 |          | SCC 3        |         |                      |                 | SCC 4    |              |         |                      | Power           |                                    |
|-----------------|---------|----------|--------------|----------------------|------|-------|--------------|---------|----------------------|-----------------|----------|--------------|---------|----------------------|-----------------|----------|--------------|---------|----------------------|-----------------|----------|--------------|---------|----------------------|-----------------|------------------------------------|
|                 |         |          |              |                      | Mod. | UL BW | UL RB Offset | PCC Ch. | SCC [CA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC Ch. | SCC [CA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC Ch. | SCC [CA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC Ch. | SCC [CA] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with CA Enabled (dBm) |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 2x2             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 2x2             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 2x2             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 2x2             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.18                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 2x2             | LTE-B41  | 20           | 41490   | 7680                 | 2x2             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.18                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.18                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 2x2             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.18                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 2x2             | LTE-B41  | 20           | 41490   | 7680                 | 2x2             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.18                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 2x2             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.18                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11} | LTE-B41 | 20       | 39750        | 7506                 | QPSK | 1     | 99           | 39750   | 7506                 | 4x4             | LTE-B41  | 20           | 41490   | 7680                 | 4x4             | -        | -            | -       | -                    | -               | -        | -            | -       | 24.21                | 24.11           |                                    |
| CA {4,14,14,11  |         |          |              |                      |      |       |              |         |                      |                 |          |              |         |                      |                 |          |              |         |                      |                 |          |              |         |                      |                 |                                    |

#### 1.4.12 LTE Band 48 as PCC

**Table 23**  
**Maximum Output Powers**

| Combination | PCC Band | PCC BW [MHz] | PCC [MHz] CH | PCC [BA] Freq. [MHz] | Mod. | PCC          |              |                      |                 | SCC 1    |              |              |                      | SCC 2           |          |              |              | SCC 3                |                 |          |              | SCC 4        |                      |                 |          | Power        |              |                      |
|-------------|----------|--------------|--------------|----------------------|------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|
|             |          |              |              |                      |      | SCC BW [MHz] | SCC [MHz] CH | PCC [BA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [MHz] CH | PCC [BA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [MHz] CH | PCC [BA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [MHz] CH | PCC [BA] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [MHz] CH | PCC [BA] Freq. [MHz] |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 2x2      | LTE B46      | 20           | 56640                | 3600            | 4x4      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 4x4      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 2x2      | LTE B46      | 20           | 56640                | 3600            | 4x4      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B46  | 20           | 53773        | 3603.3               | QPSK | 1            | 50           | 53773                | 3603.3          | 4x4      | LTE B46      | 20           | 56640                | 3600            | 2x2      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | -            | 24.91        | 24.80                |
| CA 4BA(4BA) | LTE B4   |              |              |                      |      |              |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |

|                                    |                                                                                                                                                        |                              |                                                                                       |                                 |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  <b>PCTEST</b><br><small>Presented to the public by the FCC</small> | SAR EVALUATION REPORT        |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                                                                                          | APPENDIX F:<br>Page 16 of 17 |                                                                                       |                                 |

## 1.5 Downlink Carrier Aggregation with 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

Table 24  
Maximum Output Powers

| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL# RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | 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] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | ULCA Tx Power with add'l CA config. active (dBm) | ULCA Tx Power (dBm) |
|-------------|----------|--------------|------------------|----------------------|------------|------------|-------------------|------------------|----------------------|----------|--------------|--------------|----------------------|------|------------|-------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|--------------------------------------------------|---------------------|
|             |          |              |                  |                      |            |            |                   |                  |                      |          |              |              |                      |      |            |                   |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |                                                  |                     |
| CA 41C/41A  | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 41860            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 24.43                                            | 24.43               |
| CA 41D      | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | -        | -            | -                | -                    | -        | -            | -                | -                    | 24.43                                            | 24.43               |
| CA 41D/41A  | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 41860            | 2680                 | -        | -            | -                | -                    | 24.43                                            | 24.43               |
| CA 41C/41C  | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 41860            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 24.43                                            | 24.43               |
| CA 41E      | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 40344            | 2565.4               | -        | -            | -                | -                    | 24.38                                            | 24.43               |
| CA 41C/41D  | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 41860            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 24.43                                            | 24.43               |
| CA 41D/41C  | LTE B41  | 20           | 39750            | 2506                 | QPSK       | 1          | 99                | 39750            | 2506                 | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | 24.37                                            | 24.43               |

### 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.

Table 25  
Maximum Output Powers

| 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 (dBm) | ULCA Tx Power (dBm) |
|-------------|----------|--------------|--------------|----------------------|------|------------|-------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|------|------------|-------------------|--------------|----------------------|-----------------|--------------------------------------------------|---------------------|
|             |          |              |              |                      |      |            |                   |              |                      |                 |          |              |              |                      |      |            |                   |              |                      |                 |                                                  |                     |
| CA [66B]    | LTE B66  | 10           | 132022       | 1715                 | QPSK | 1          | 49                | 66486        | 2115                 | 4x4             | LTE B66  | 10           | 132121       | 1724.9               | QPSK | 1          | 0                 | 66585        | 2124.9               | 4x4             | 24.16                                            | 24.13               |
| CA [66C]    | LTE B66  | 20           | 132072       | 1720                 | QPSK | 1          | 99                | 66536        | 2120                 | 4x4             | LTE B66  | 20           | 132270       | 1739.8               | QPSK | 1          | 0                 | 66734        | 2139.8               | 4x4             | 24.18                                            | 24.15               |

| 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 (dBm) | ULCA Tx Power (dBm) |
|-------------|----------|--------------|--------------|----------------------|------|------------|-------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|------|------------|-------------------|--------------|----------------------|-----------------|--------------------------------------------------|---------------------|
|             |          |              |              |                      |      |            |                   |              |                      |                 |          |              |              |                      |      |            |                   |              |                      |                 |                                                  |                     |
| CA 41H      | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41C/41A  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 2x2             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 2x2             | -                                                | -                   |
| 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             | -                                                | -                   |
| CA 41D      | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41D/41A  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 2x2             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 2x2             | -                                                | -                   |
| CA 41D/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             | -                                                | -                   |
| CA 41D/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             | -                                                | -                   |
| CA 41D/41C  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41C/41C  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41C/41C  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41C/41C  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41E      | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41E/41C  | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |
| CA 41E      | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 99                | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39948        | 2525.8               | QPSK | 1          | 0                 | 39948        | 2525.8               | 4x4             | -                                                | -                   |

| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Channel | PCC (UL) Freq. [MHz] | Modulation | PCC UL# RB | PCC UL# RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (UL) Channel | SCC (UL) Freq. [MHz] | Modulation | SCC UL# RB | SCC UL# RB Offset | SCC (DL) Channel | SCC (DL) Freq. [MHz] | DL Ant. Config. | ULCA Tx Power with add'l CA config. active (dBm) | ULCA Tx Power (dBm) |
|-------------|----------|--------------|------------------|----------------------|------------|------------|-------------------|------------------|----------------------|-----------------|----------|--------------|------------------|----------------------|------------|------------|-------------------|------------------|----------------------|-----------------|--------------------------------------------------|---------------------|
|             |          |              |                  |                      |            |            |                   |                  |                      |                 |          |              |                  |                      |            |            |                   |                  |                      |                 |                                                  |                     |
| CA [48C]    | LTE B48  | 20           | 55773            | 3603.3               | QPSK       | 1          | 0                 | 55773            | 3603.3               | 4x4             | LTE B48  | 20           | 55575            | 3583.5               | QPSK       | 1          | 99                | 55575            | 3583.5               | 4x4             | 24.96                                            | 24.89               |

|                                    |                                                                                     |                              |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  | SAR EVALUATION REPORT        |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 – 06/07/20 | DUT Type:<br>Portable Handset                                                       | APPENDIX F:<br>Page 17 of 17 |                                                                                       |                                 |

## APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

### G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered. For licensed modes, the device state index as displayed on the device UI was recorded before and after the mechanism was triggered.
2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

### G.2 Distance Verification Procedure

The distance verification procedure was performed according to the following procedure:

1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom. For licensed modes, the device state index on the device UI was monitored to determine the triggering state.
2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced, per KDB Publication 616217 D04v01r02 and FCC Guidance. Each applicable test position was evaluated. The distances were confirmed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
3. Steps 1 and 2 were repeated for low, mid, and high bands, as appropriate (see note below Table G-2 for more details).
4. Steps 1 through 3 were repeated for all distance-based power reduction mechanisms.

|                                    |                                                                                                                                                                                                                             |                       |                                                                                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN986U                 |  <b>PCTEST</b><br><small>Proud to be part of</small>  | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>04/22/20 - 06/07/20 | DUT Type:<br>Portable Handset                                                                                                                                                                                               |                       |                                                                                       | APPENDIX G:<br>Page 1 of 5      |

## G.3 Main Antenna Verification Summary

**Table G-1**  
**Power Measurement Verification for Main Antenna**

| Mechanism(s) |            | Mode/Band             | Conducted Power (dBm) |                        |                        |
|--------------|------------|-----------------------|-----------------------|------------------------|------------------------|
| 1st          | 2nd        |                       | Un-triggered (Max)    | Mechanism #1 (Reduced) | Mechanism #2 (Reduced) |
| Hotspot On   |            | GPRS 1900             | 0                     | 3                      |                        |
| Hotspot On   | Grip       | GPRS 1900             | 0                     | 3                      | 3                      |
| Grip         |            | GPRS 1900             | 0                     | 1                      |                        |
| Grip         | Hotspot On | GPRS 1900             | 0                     | 1                      | 3                      |
| Hotspot On   |            | UMTS 1750             | 0                     | 3                      |                        |
| Hotspot On   | Grip       | UMTS 1750             | 0                     | 3                      | 3                      |
| Grip         |            | UMTS 1750             | 0                     | 1                      |                        |
| Grip         | Hotspot On | UMTS 1750             | 0                     | 1                      | 3                      |
| Hotspot On   |            | UMTS 1900             | 0                     | 3                      |                        |
| Hotspot On   | Grip       | UMTS 1900             | 0                     | 3                      | 3                      |
| Grip         |            | UMTS 1900             | 0                     | 1                      |                        |
| Grip         | Hotspot On | UMTS 1900             | 0                     | 1                      | 3                      |
| Hotspot On   |            | PCS EVDO              | 0                     | 3                      |                        |
| Hotspot On   | Grip       | PCS EVDO              | 0                     | 3                      | 3                      |
| Grip         |            | PCS EVDO              | 0                     | 1                      |                        |
| Grip         | Hotspot On | PCS EVDO              | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE FDD Band 4        | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE FDD Band 4        | 0                     | 3                      | 3                      |
| Grip         |            | LTE FDD Band 4        | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE FDD Band 4        | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE FDD Band 66       | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE FDD Band 66       | 0                     | 3                      | 3                      |
| Grip         |            | LTE FDD Band 66       | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE FDD Band 66       | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE FDD Band 2        | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE FDD Band 2        | 0                     | 3                      | 3                      |
| Grip         |            | LTE FDD Band 2        | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE FDD Band 2        | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE FDD Band 25       | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE FDD Band 25       | 0                     | 3                      | 3                      |
| Grip         |            | LTE FDD Band 25       | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE FDD Band 25       | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE FDD Band 30       | 0                     | 3                      |                        |
| Hotspot On   |            | LTE FDD Band 7        | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE FDD Band 7        | 0                     | 3                      | 3                      |
| Grip         |            | LTE FDD Band 7        | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE FDD Band 7        | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE TDD Band 41 (PC3) | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE TDD Band 41 (PC3) | 0                     | 3                      | 3                      |
| Grip         |            | LTE TDD Band 41 (PC3) | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE TDD Band 41 (PC3) | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE TDD Band 41 (PC2) | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE TDD Band 41 (PC2) | 0                     | 3                      | 3                      |
| Grip         |            | LTE TDD Band 41 (PC2) | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE TDD Band 41 (PC2) | 0                     | 1                      | 3                      |
| Hotspot On   |            | LTE TDD Band 38       | 0                     | 3                      |                        |
| Hotspot On   | Grip       | LTE TDD Band 38       | 0                     | 3                      | 3                      |
| Grip         |            | LTE TDD Band 38       | 0                     | 1                      |                        |
| Grip         | Hotspot On | LTE TDD Band 38       | 0                     | 1                      | 3                      |
| Held-to-Ear  |            | LTE TDD Band 48       | 0                     | 2                      |                        |
| Hotspot On   |            | NR Band n66           | 0                     | 3                      |                        |
| Hotspot On   | Grip       | NR Band n66           | 0                     | 3                      | 3                      |
| Grip         |            | NR Band n66           | 0                     | 1                      |                        |
| Grip         | Hotspot On | NR Band n66           | 0                     | 1                      | 3                      |
| Hotspot On   |            | NR Band n2            | 0                     | 3                      |                        |
| Hotspot On   | Grip       | NR Band n2            | 0                     | 3                      | 3                      |
| Grip         |            | NR Band n2            | 0                     | 1                      |                        |
| Grip         | Hotspot On | NR Band n2            | 0                     | 1                      | 3                      |
| Hotspot On   |            | NR Band n25           | 0                     | 3                      |                        |
| Hotspot On   | Grip       | NR Band n25           | 0                     | 3                      | 3                      |
| Grip         |            | NR Band n25           | 0                     | 1                      |                        |
| Grip         | Hotspot On | NR Band n25           | 0                     | 1                      | 3                      |
| Held-to-ear  |            | NR Band n41           | 0                     | 2                      |                        |

\*Note: This device uses different Device State Indices (DSI) to configure different time averaged power levels based on certain exposure scenarios. For this device, DSI = 1 represents the case when the grip sensor is active, DSI = 2 represents the case where the device is held to ear, and DSI = 3 represents the case when hotspot mode is active. DSI = 0 is configured at max power when the device cannot detect the use condition.

|                                           |                                                                                                                                                |                              |                                                                                       |                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>04/22/20 - 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                           |                              |                                                                                       | <b>APPENDIX G:</b><br>Page 2 of 5      |

**Table G-2**  
**Distance Measurement Verification for Main Antenna**

| Mechanism(s) | Test Condition        | Band | Distance Measurements (mm) |             | Minimum Distance per Manufacturer (mm) |
|--------------|-----------------------|------|----------------------------|-------------|----------------------------------------|
|              |                       |      | Moving Toward              | Moving Away |                                        |
| Grip         | Phablet - Back Side   | Mid  | 13                         | 14          | 9                                      |
| Grip         | Phablet - Back Side   | High | 13                         | 14          | 9                                      |
| Grip         | Phablet - Front Side  | Mid  | 11                         | 12          | 7                                      |
| Grip         | Phablet - Front Side  | High | 11                         | 12          | 7                                      |
| Grip         | Phablet - Bottom Edge | Mid  | 17                         | 18          | 13                                     |
| Grip         | Phablet - Bottom Edge | High | 17                         | 18          | 13                                     |

\*Note: Mid band refers to: CDMA BC1, GSM1900, UMTS B2/4, LTE B2/4/25/66, NR Band n2/25/66; High band refers to: LTE B7/38/41 PC3 and PC2

## G.4 WIFI Verification Summary

**Table G-3**  
**Power Measurement Verification WIFI – Antenna 1**

| Mechanism(s) | Mode/Band                | Conducted Power (dBm) |                        |
|--------------|--------------------------|-----------------------|------------------------|
|              |                          | Un-triggered (Max)    | Mechanism #1 (Reduced) |
| 1st          |                          |                       |                        |
| Held-to-Ear  | 802.11b                  | 20.42                 | 14.49                  |
| Held-to-Ear  | 802.11g                  | 17.75                 | 15.36                  |
| Held-to-Ear  | 802.11n (2.4GHz)         | 18.02                 | 15.40                  |
| Held-to-Ear  | 802.11a                  | 17.28                 | 12.99                  |
| Held-to-Ear  | 802.11n (5GHz, 20MHz BW) | 16.99                 | 12.96                  |
| Held-to-Ear  | 802.11ac (20MHz BW)      | 17.08                 | 12.78                  |
| Held-to-Ear  | 802.11n (5GHz, 40MHz BW) | 15.84                 | 12.87                  |
| Held-to-Ear  | 802.11ac (40MHz BW)      | 15.91                 | 12.99                  |
| Held-to-Ear  | 802.11ac (80MHz BW)      | 14.52                 | 11.97                  |

\*Note: MIMO and 802.11ax WIFI modes were not evaluated due to equipment limitations.

|                                           |                                                                                                                                         |                              |                                                                                       |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>04/22/20 - 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                    |                              |                                                                                       | <b>APPENDIX G:</b><br>Page 3 of 5      |

**Table G-4**  
**Power Measurement Verification WIFI – Antenna 2**

| Mechanism(s) | Mode/Band                | Conducted Power (dBm) |                        |
|--------------|--------------------------|-----------------------|------------------------|
| 1st          |                          | Un-triggered (Max)    | Mechanism #1 (Reduced) |
| Held-to-Ear  | 802.11b                  | 20.31                 | 14.77                  |
| Held-to-Ear  | 802.11g                  | 17.69                 | 15.29                  |
| Held-to-Ear  | 802.11n (2.4GHz)         | 17.92                 | 15.43                  |
| Held-to-Ear  | 802.11a                  | 16.58                 | 12.17                  |
| Held-to-Ear  | 802.11n (5GHz, 20MHz BW) | 16.79                 | 12.58                  |
| Held-to-Ear  | 802.11ac (20MHz BW)      | 16.88                 | 12.95                  |
| Held-to-Ear  | 802.11n (5GHz, 40MHz BW) | 16.23                 | 12.99                  |
| Held-to-Ear  | 802.11ac (40MHz BW)      | 16.08                 | 12.96                  |
| Held-to-Ear  | 802.11ac (80MHz BW)      | 14.73                 | 12.35                  |

\*Note: MIMO and 802.11ax WIFI modes were not evaluated due to equipment limitations.

**Table G-5**  
**Power Measurement Verification WIFI with NR Active – Antenna 1**

| Mode/Band                | Conducted Power (dBm) |                                  |                                          |
|--------------------------|-----------------------|----------------------------------|------------------------------------------|
|                          | Un-triggered (Max)    | Mechanism #1 NR Active (Reduced) | Mechanism #2 RCV and NR Active (Reduced) |
| 802.11b                  | 19.12                 | 15.20                            | 12.20                                    |
| 802.11g                  | 17.53                 | 15.19                            | 11.43                                    |
| 802.11n (2.4GHz)         | 17.11                 | 15.25                            | 11.19                                    |
| 802.11a                  | 16.80                 | 11.20                            | 11.44                                    |
| 802.11n (5GHz, 20MHz BW) | 16.79                 | 11.02                            | 11.54                                    |
| 802.11ac (20MHz BW)      | 16.71                 | 11.17                            | 11.45                                    |
| 802.11n (5GHz, 40MHz BW) | 15.93                 | 11.31                            | 11.33                                    |
| 802.11ac (40MHz BW)      | 15.88                 | 11.46                            | 11.21                                    |
| 802.11ac (80MHz BW)      | 14.96                 | 11.11                            | 11.38                                    |

\*Note: MIMO and 802.11ax WIFI modes were not evaluated due to equipment limitations.

|                                           |                                                                                                                                         |                              |                                                                                       |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>04/22/20 - 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                    |                              |                                                                                       | <b>APPENDIX G:</b><br>Page 4 of 5      |

**Table G-6**  
**Power Measurement Verification WIFI with NR Active – Antenna 2**

| Mode/Band                | Conducted Power (dBm) |                                  |                                          |
|--------------------------|-----------------------|----------------------------------|------------------------------------------|
|                          | Un-triggered (Max)    | Mechanism #1 NR Active (Reduced) | Mechanism #2 RCV and NR Active (Reduced) |
| 802.11b                  | 19.35                 | 14.94                            | 11.89                                    |
| 802.11g                  | 17.39                 | 14.98                            | 11.74                                    |
| 802.11n (2.4GHz)         | 17.48                 | 14.76                            | 11.61                                    |
| 802.11a                  | 17.22                 | 12.15                            | 12.83                                    |
| 802.11n (5GHz, 20MHz BW) | 17.24                 | 12.13                            | 12.76                                    |
| 802.11ac (20MHz BW)      | 17.24                 | 12.15                            | 12.77                                    |
| 802.11n (5GHz, 40MHz BW) | 16.70                 | 12.50                            | 12.49                                    |
| 802.11ac (40MHz BW)      | 16.63                 | 12.37                            | 12.53                                    |
| 802.11ac (80MHz BW)      | 15.41                 | 12.36                            | 12.27                                    |

\*Note: MIMO and 802.11ax WIFI modes were not evaluated due to equipment limitations.

|                                           |                                                                                                                                                                                                              |                              |                                                                                       |                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN986U                        |  <b>PCTEST</b><br>Proud to be part of  | <b>SAR EVALUATION REPORT</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>04/22/20 - 06/07/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                                                                                         |                              |                                                                                       | <b>APPENDIX G:</b><br>Page 5 of 5      |