



REPORT No.: SZ22080079S01

Annex C Plots of System Performance Check

System Check_750MHz_Head

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.906 \text{ S/m}$; $\epsilon_r = 42.043$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(10.2, 10.2, 10.2) @ 750 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW750/Area Scan (81x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.03 W/kg

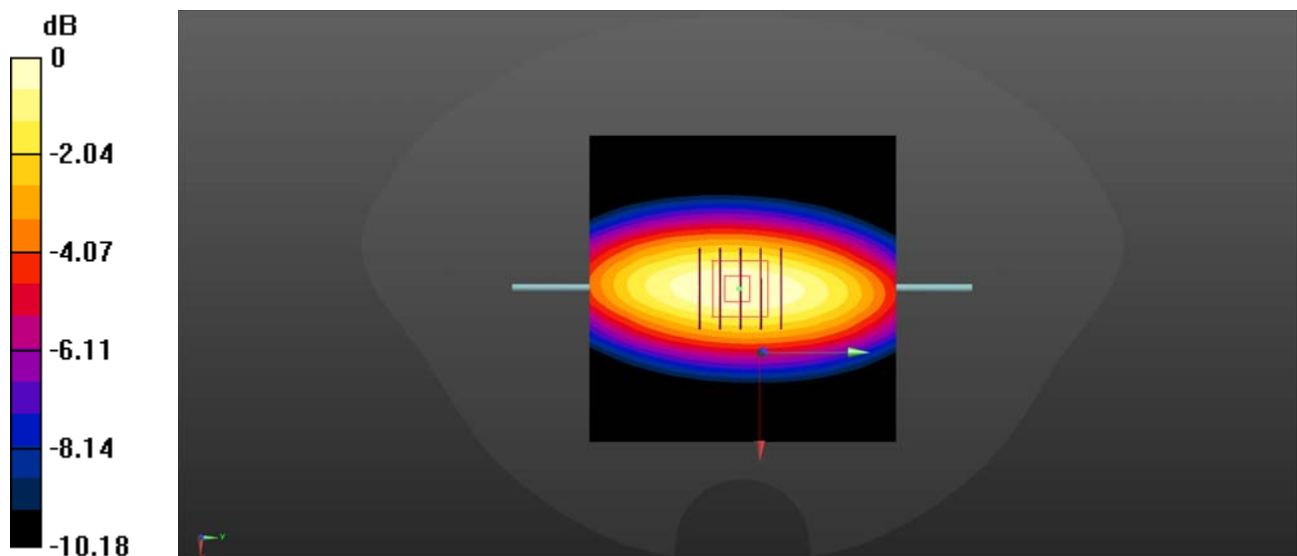
CW750/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 54.40 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 2.11 W/kg ; SAR(10 g) = 1.42 W/kg

Maximum value of SAR (measured) = 2.93 W/kg



0 dB = 2.93 W/kg

System Check_900MHz_Head

Communication System: UID 0, CW (0); Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL_900 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.979 \text{ S/m}$; $\epsilon_r = 41.347$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(9.81, 9.81, 9.81) @ 900 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW900/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.88 W/kg

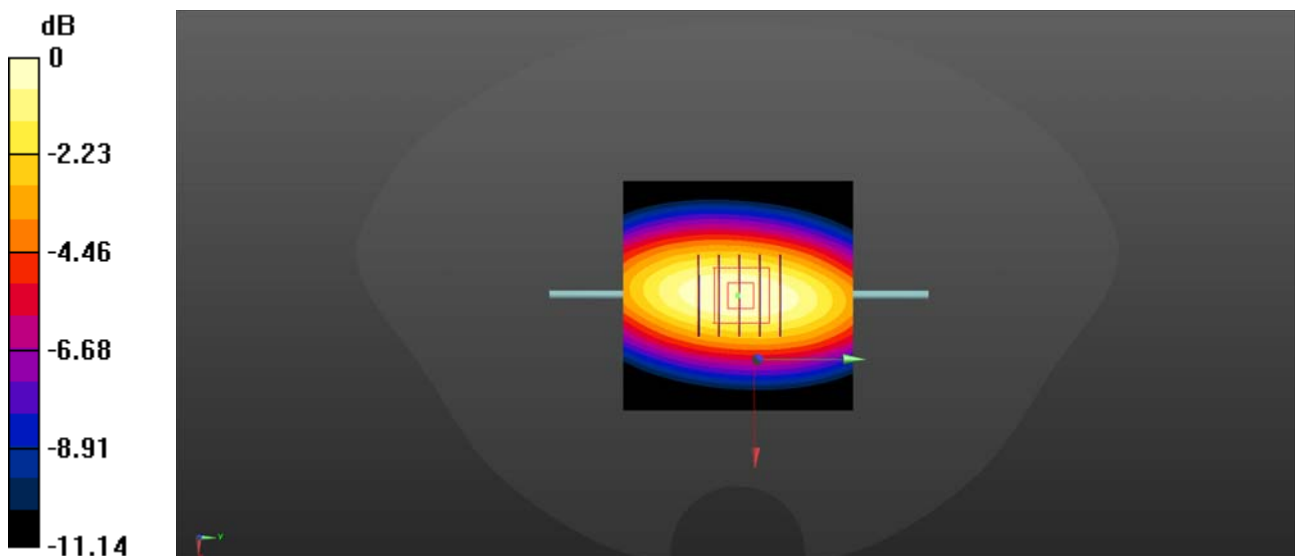
CW900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.60 V/m ; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.50 W/kg

SAR(1 g) = 2.92 W/kg ; SAR(10 g) = 1.88 W/kg

Maximum value of SAR (measured) = 3.75 W/kg



0 dB = 3.75 W/kg

System Check_1800MHz_Head

Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1

Medium: HSL_1800 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.438 \text{ S/m}$; $\epsilon_r = 41.115$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.2 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(8.26, 8.26, 8.26) @ 1800 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW1800/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 15.7 W/kg

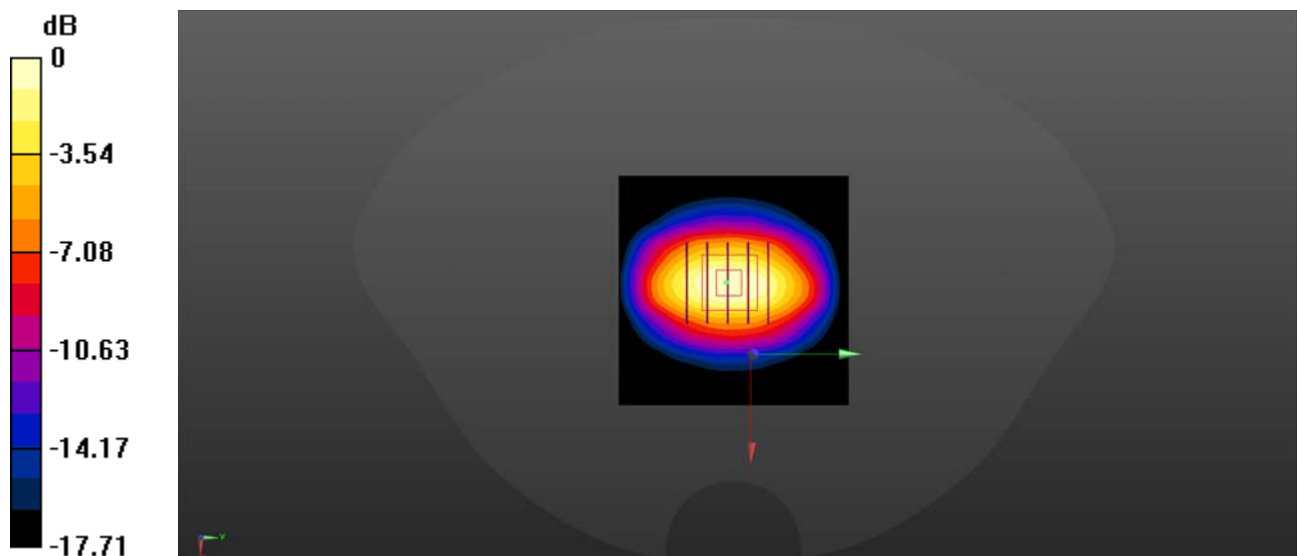
CW1800/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 85.43 V/m ; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 22.1 W/kg

SAR(1 g) = 9.78 W/kg ; SAR(10 g) = 5.1 W/kg

Maximum value of SAR (measured) = 15.4 W/kg



System Check_2000MHz_Head

Communication System: UID 0, CW (0); Frequency: 2000 MHz; Duty Cycle: 1:1

Medium: HSL_2000 Medium parameters used: $f = 2000$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 40.197$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.99, 7.99, 7.99) @ 2000 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW2000/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 18.5 W/kg

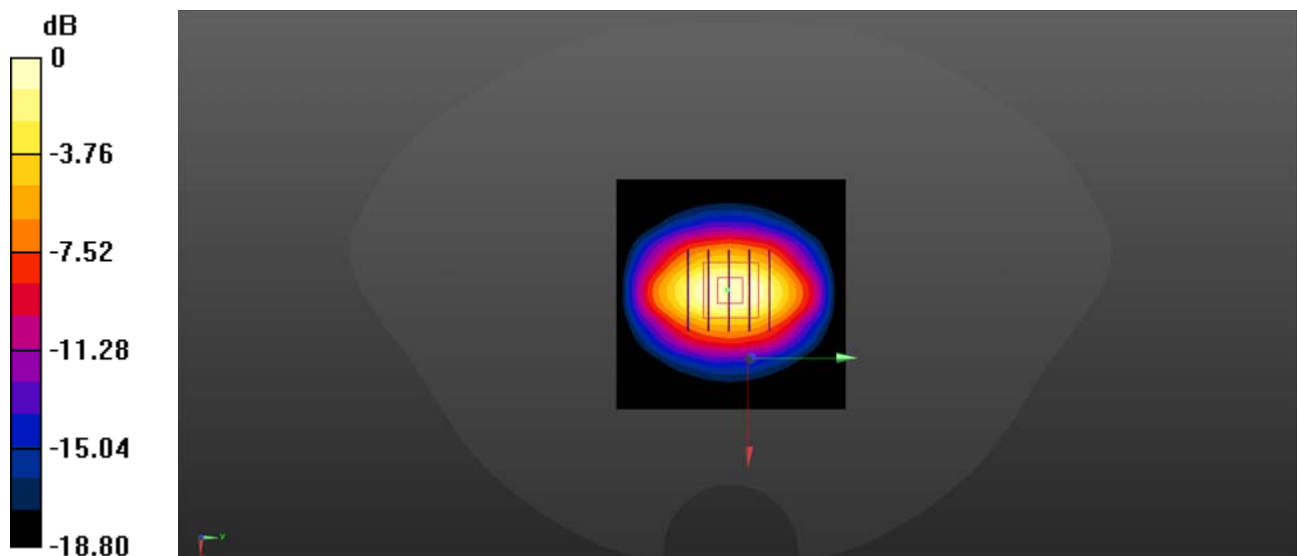
CW2000/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 88.86 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 28.4 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.21 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 18.3 W/kg

System Check_2300MHz_Head

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

Medium: HSL_2300 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.669$ S/m; $\epsilon_r = 39.471$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.66, 7.66, 7.66) @ 2300 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW2300/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 21.2 W/kg

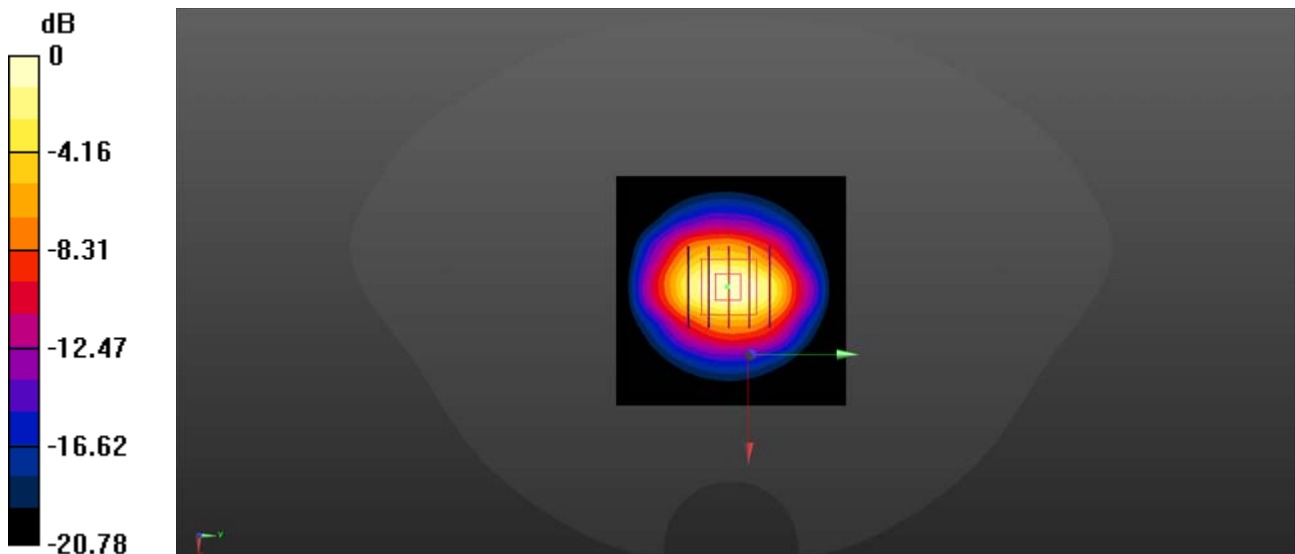
CW2300/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.60 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 27.3 W/kg

SAR(1 g) = 12.58 W/kg; SAR(10 g) = 6.02 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg

System Check_2450MHz_Head

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

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 38.806$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.42, 7.42, 7.42) @ 2450 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW2450/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 21.4 W/kg

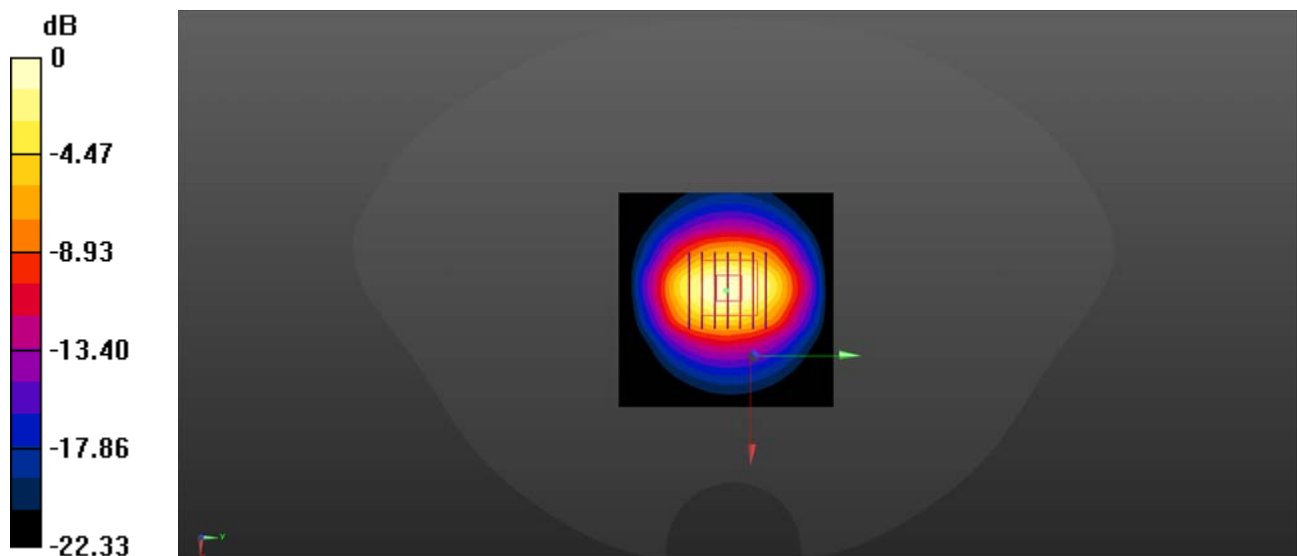
CW2450/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.80 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 27.9 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.23 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



0 dB = 20.6 W/kg

System Check_2600MHz_Head

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

Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.981$ S/m; $\epsilon_r = 38.490$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2600 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: TSAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW2600/Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 23.5 W/kg

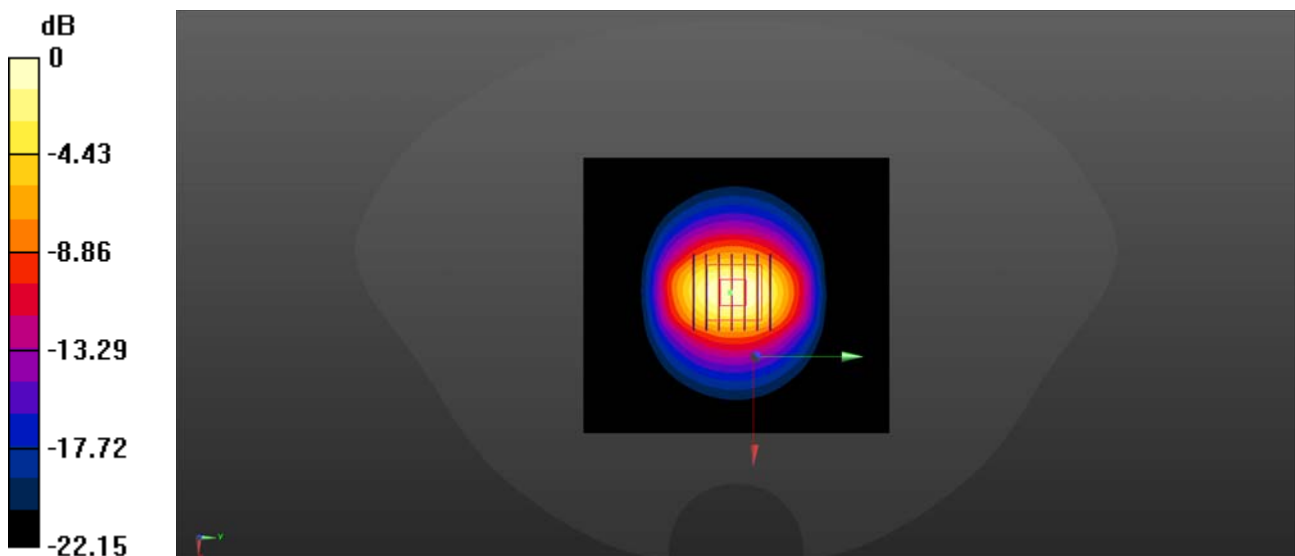
CW2600/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.44 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 30.9 W/kg

SAR(1 g) = 14.25 W/kg; SAR(10 g) = 6.53 W/kg

Maximum value of SAR (measured) = 23.0 W/kg



0 dB = 23.0 W/kg

System Check_3500MHz_Head

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

Medium: HSL 3500 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.913$ S/m; $\epsilon_r = 37.914$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(6.61, 6.61, 6.61) @ 3500 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW3500/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 12.6 W/kg

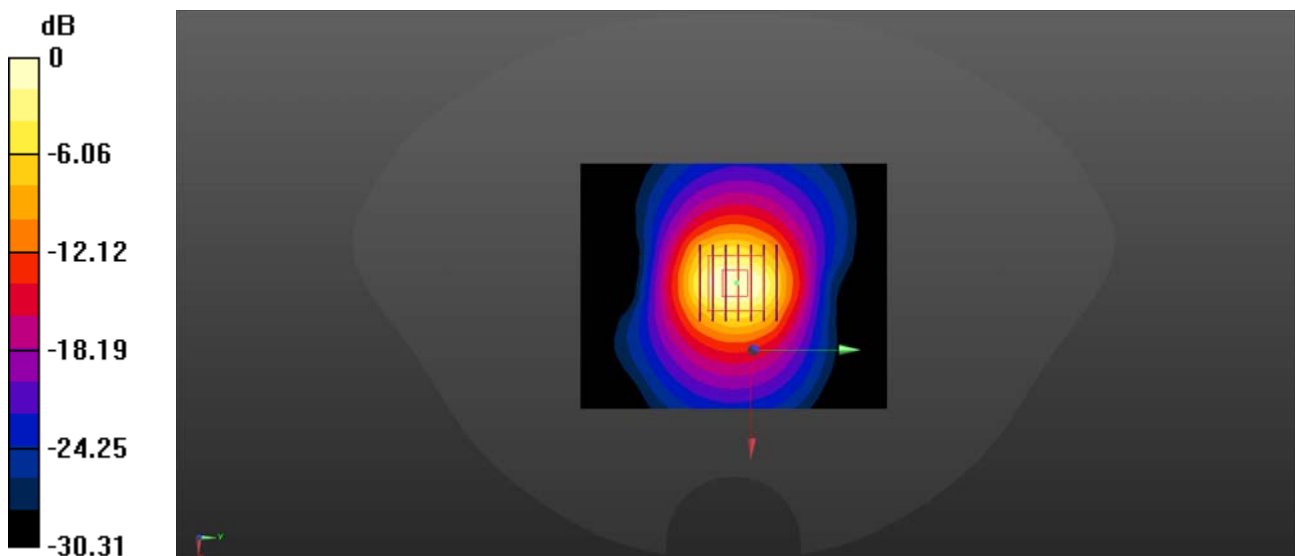
CW3500/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.77 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 7.02 W/kg; SAR(10 g) = 2.68 W/kg

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg

System Check_3500MHz_Head

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

Medium: HSL 3500 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.912$ S/m; $\epsilon_r = 37.908$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7624; ConvF(7.08, 7.08, 7.08) @ 3575 MHz; Calibrated: 2022.03.31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW3500/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 12.6 W/kg

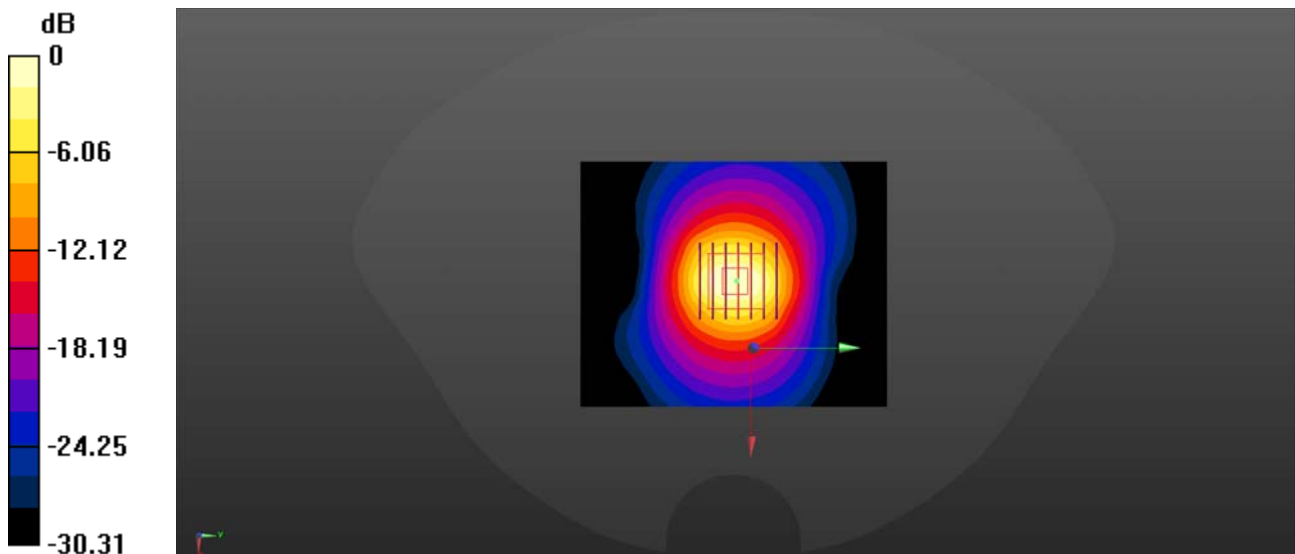
CW3500/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.77 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 7.04 W/kg; SAR(10 g) = 2.59 W/kg

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg

System Check_3700MHz_Head

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

Medium: HSL 3700 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.107$ S/m; $\epsilon_r = 39.346$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(6.31, 6.31, 6.31) @ 3700 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW3700/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.74 W/kg

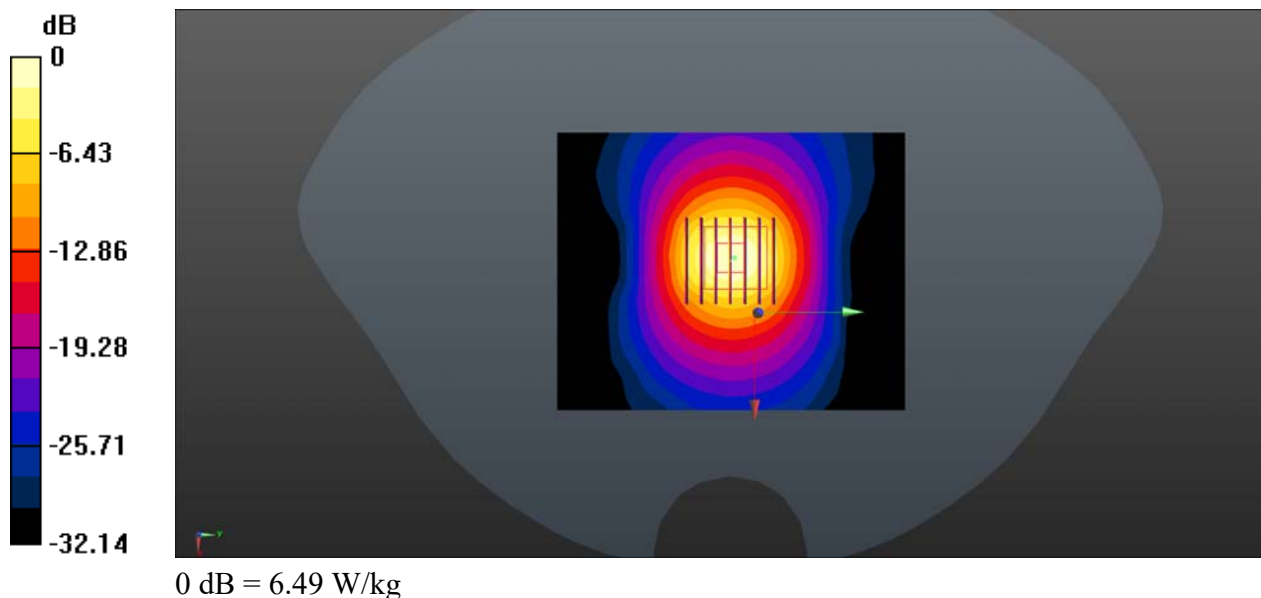
CW3700/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.97 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 6.68 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 6.49 W/kg



System Check_3700MHz_Head

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

Medium: HSL 3700 Medium parameters used: $f = 3700$ MHz; $\sigma = 3.103$ S/m; $\epsilon_r = 39.338$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7624; ConvF(7.08, 7.08, 7.08) @ 3575 MHz; Calibrated: 2022.03.31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW3700/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 6.74 W/kg

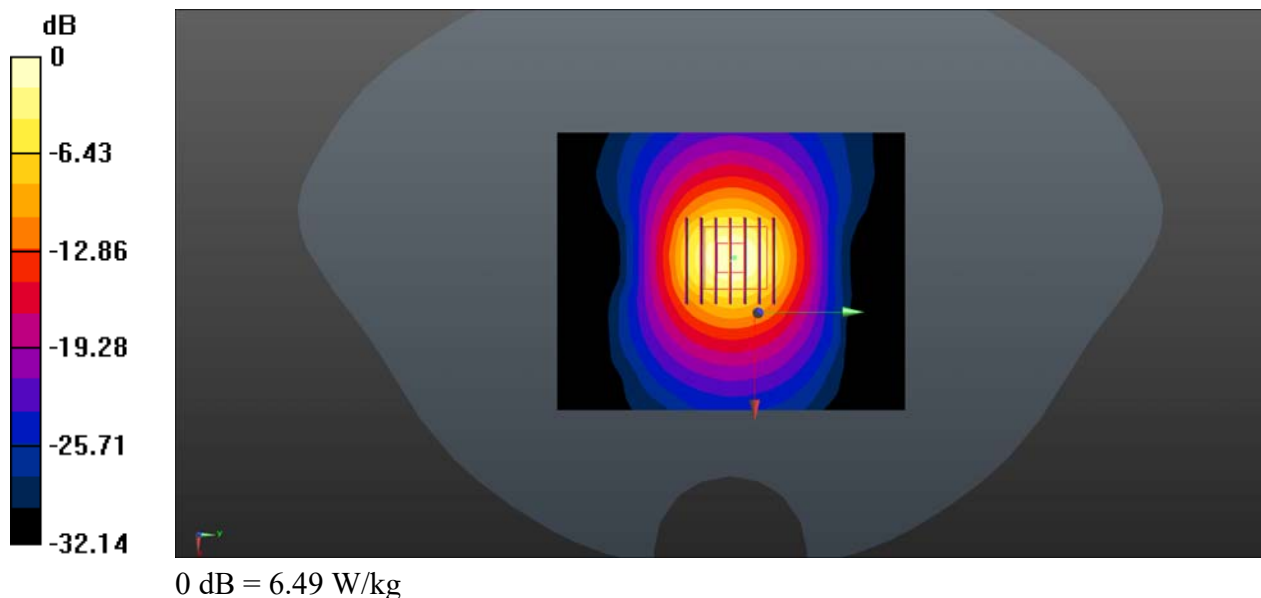
CW3700/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 46.97 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 6.65 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 6.49 W/kg



System Check_3900MHz_Head

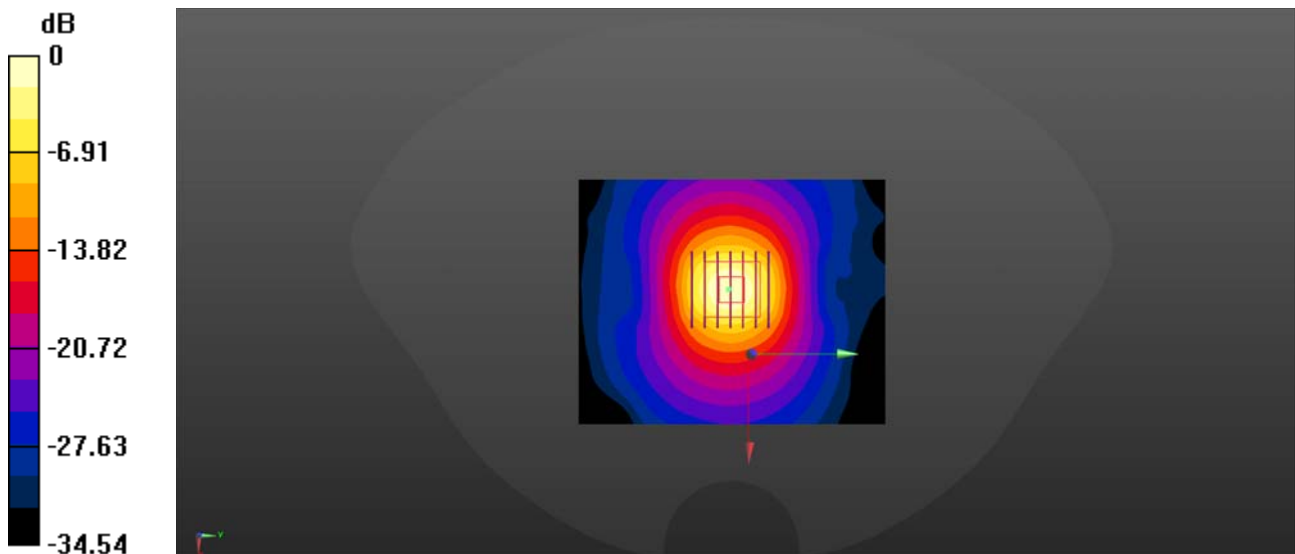
Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
Medium: HSL 3900 Medium parameters used: $f = 3900$ MHz; $\sigma = 3.223$ S/m; $\epsilon_r = 39.255$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(6.22, 6.22, 6.22) @ 3900 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW3900/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 14.5 W/kg

CW3900/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.58 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 21.0 W/kg
SAR(1 g) = 7.38 W/kg; SAR(10 g) = 2.6 W/kg
Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg

System Check_5250MHz_Head

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

Medium: HSL_5250 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.698$ S/m; $\epsilon_r = 36.330$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(5.16, 5.16, 5.16) @ 5250 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5250/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 13.52 W/kg

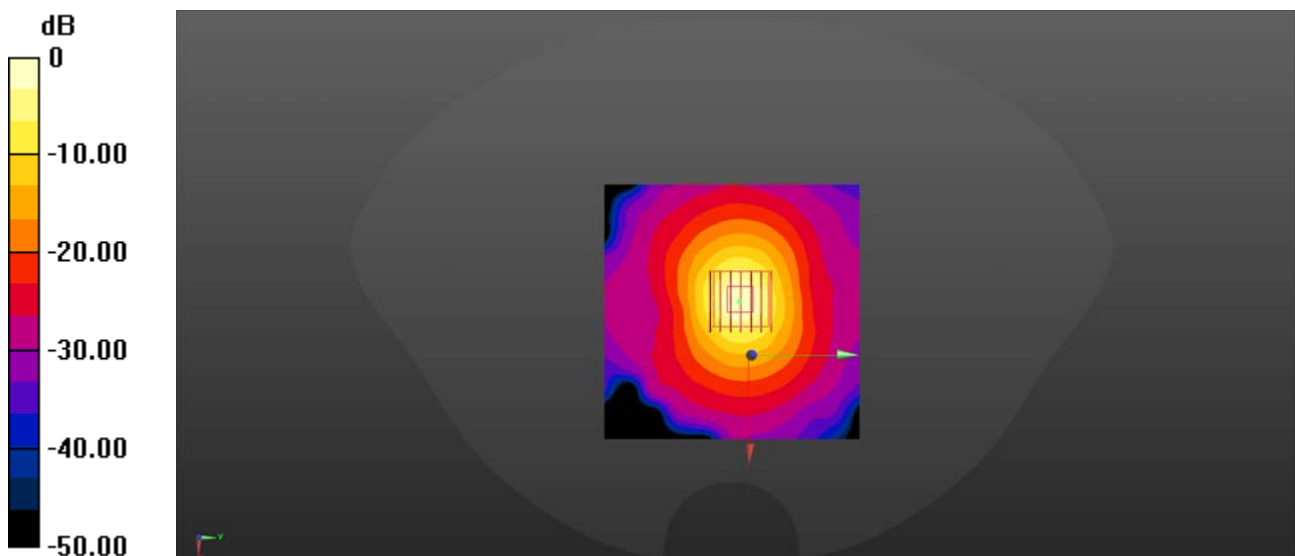
CW5250/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.31 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 21.2 W/kg

SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 13.06 W/kg



0 dB = 13.06 W/kg

System Check_5750MHz_Head

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

Medium: HSL_5750 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.338$ S/m; $\epsilon_r = 35.130$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(4.45, 4.45, 4.45) @ 5750 MHz; Calibrated: 2022.03.04
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

CW5750/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 21.6 W/kg

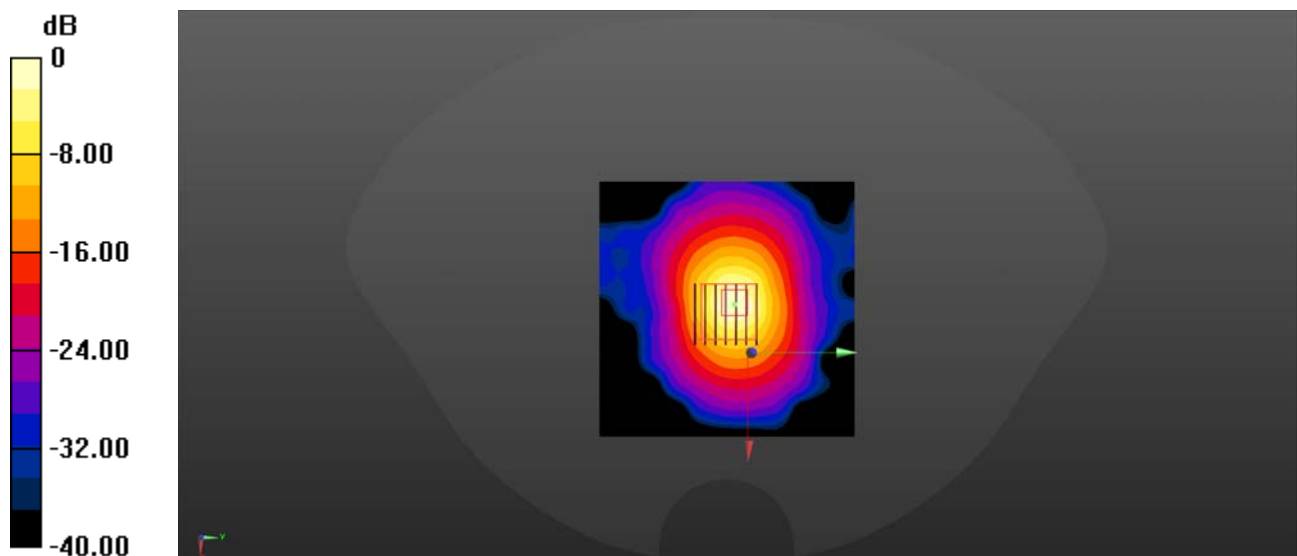
CW5750/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.28 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 36.5 W/kg

SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg



REPORT No.: SZ22080079S01

Annex D Plots of Maximum SAR Test Results

LTE Band 5_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch20525

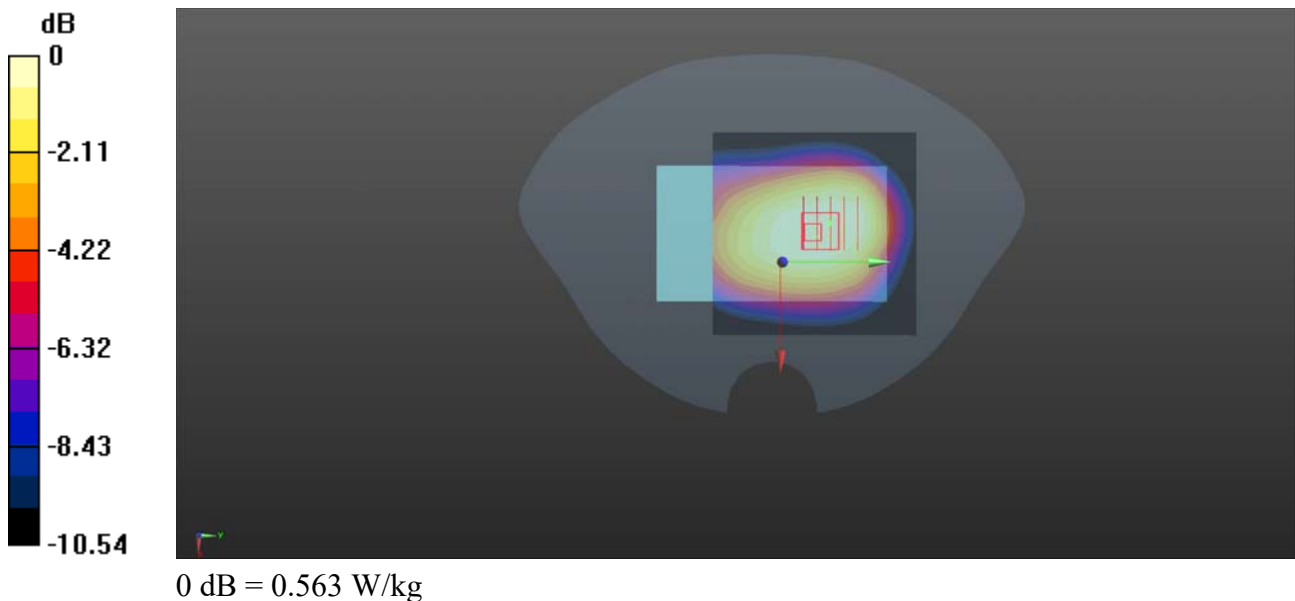
Communication System: UID 0, LTE (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: HSL_900 Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 42.967$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(9.81, 9.81, 9.81) @ 836.5 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch20525/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.570 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.06 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.633 W/kg
SAR(1 g) = 0.485 W/kg; SAR(10 g) = 0.356 W/kg
Maximum value of SAR (measured) = 0.563 W/kg



LTE Band 7_20MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch21100

Communication System: UID 0, LTE (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.911$ S/m; $\epsilon_r = 38.489$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2535 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch21100/Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.691 W/kg

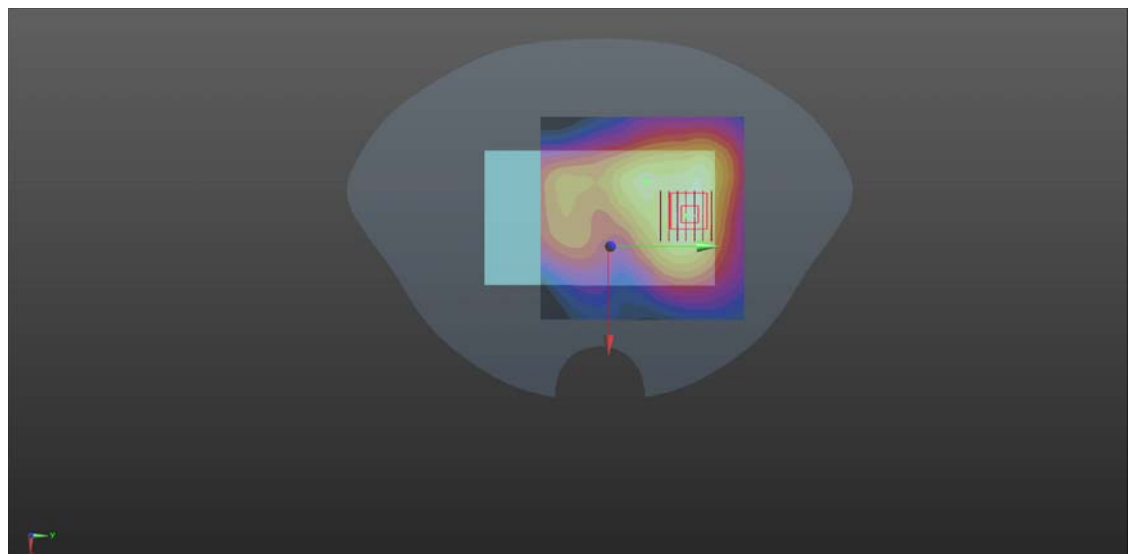
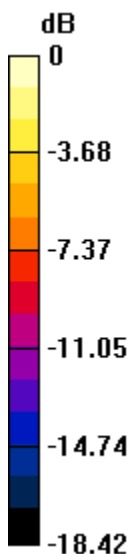
Ch21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.432 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.763 W/kg



0 dB = 0.763 W/kg

LTE Band 12_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch23095

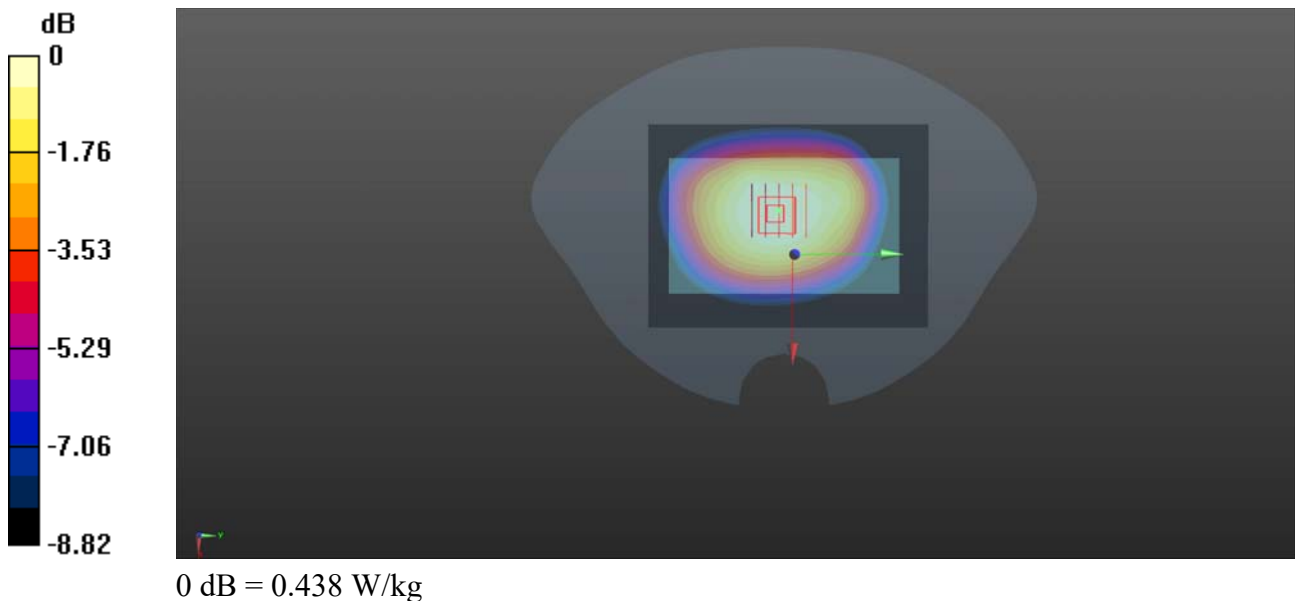
Communication System: UID 0, LTE (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
 Medium: HSL_750 Medium parameters used (interpolated): $f = 707.5 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 42.233$; $\rho = 1000 \text{ kg/m}^3$
 Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(10.2, 10.2, 10.2) @ 707.5 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch23095/Area Scan (81x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.464 W/kg

Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 21.73 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 0.492 W/kg
SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.278 W/kg
 Maximum value of SAR (measured) = 0.438 W/kg



LTE Band 13_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch23230

Communication System: UID 0, LTE (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.938 \text{ S/m}$; $\epsilon_r = 42.016$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(10.2, 10.2, 10.2) @ 782 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch23230/Area Scan (81x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.604 W/kg

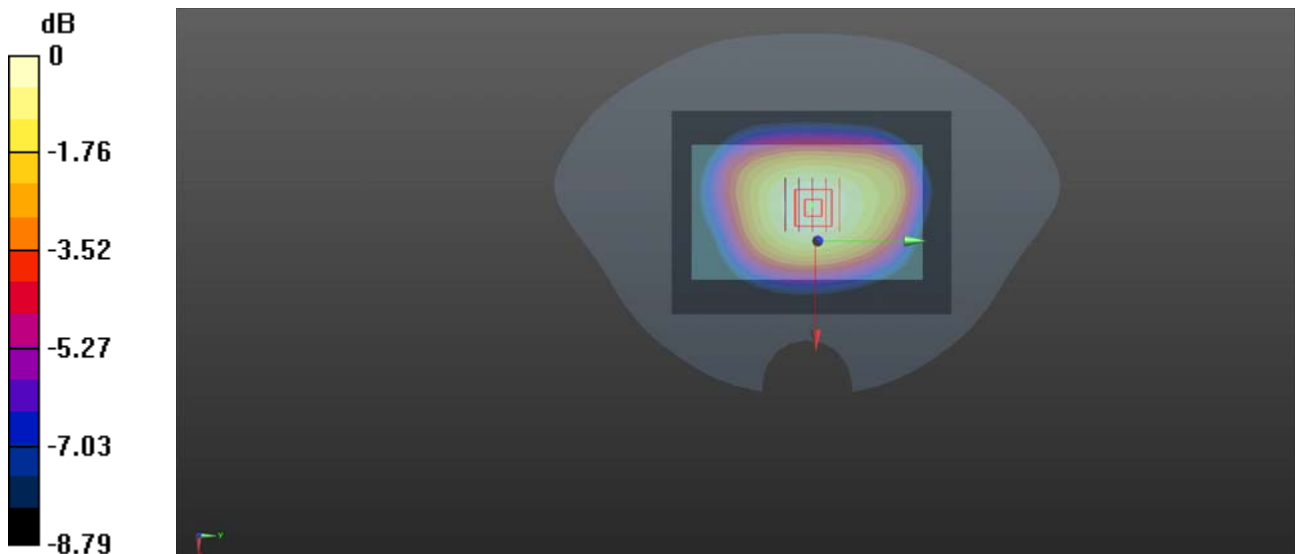
Ch23230/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.52 V/m ; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.672 W/kg

SAR(1 g) = 0.515 W/kg ; SAR(10 g) = 0.382 W/kg

Maximum value of SAR (measured) = 0.604 W/kg



0 dB = 0.604 W/kg

LTE Band 14_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch23330

Communication System: UID 0, LTE (0); Frequency: 793 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.941 \text{ S/m}$; $\epsilon_r = 41.95$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(10.2, 10.2, 10.2) @ 793 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch23330/Area Scan (81x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.692 W/kg

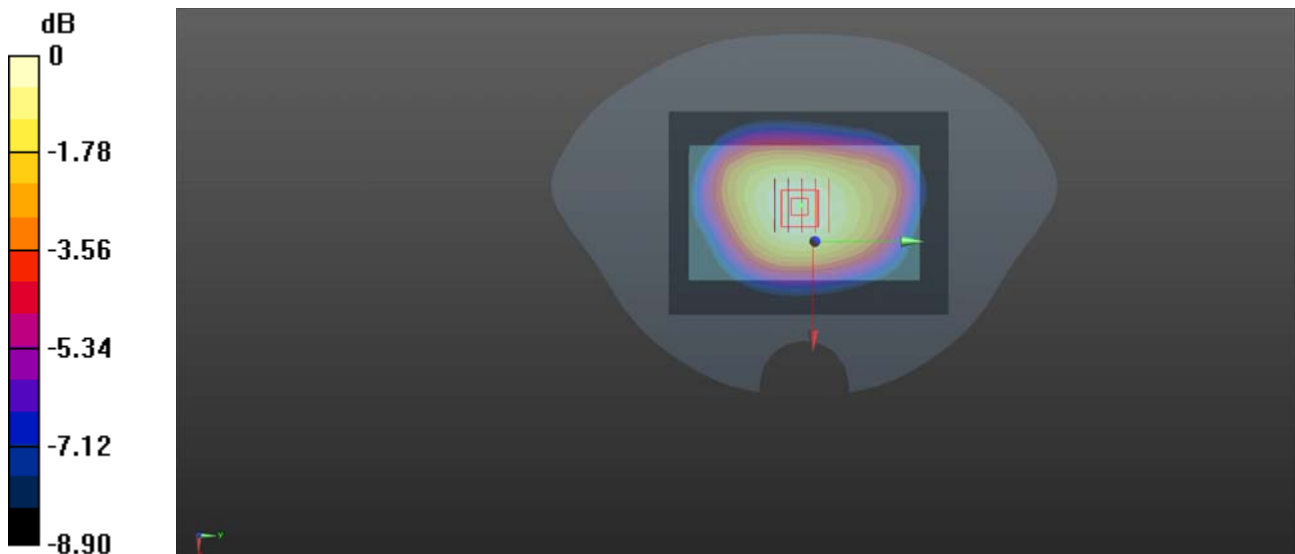
Ch23330/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.07 V/m ; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.592 W/kg ; SAR(10 g) = 0.437 W/kg

Maximum value of SAR (measured) = 0.694 W/kg



0 dB = 0.692 W/kg

LTE Band 25_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch26365

Communication System: UID 0, LTE (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: HSL_2000 Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 40.123$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.99, 7.99, 7.99) @ 1882.5 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch26365/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

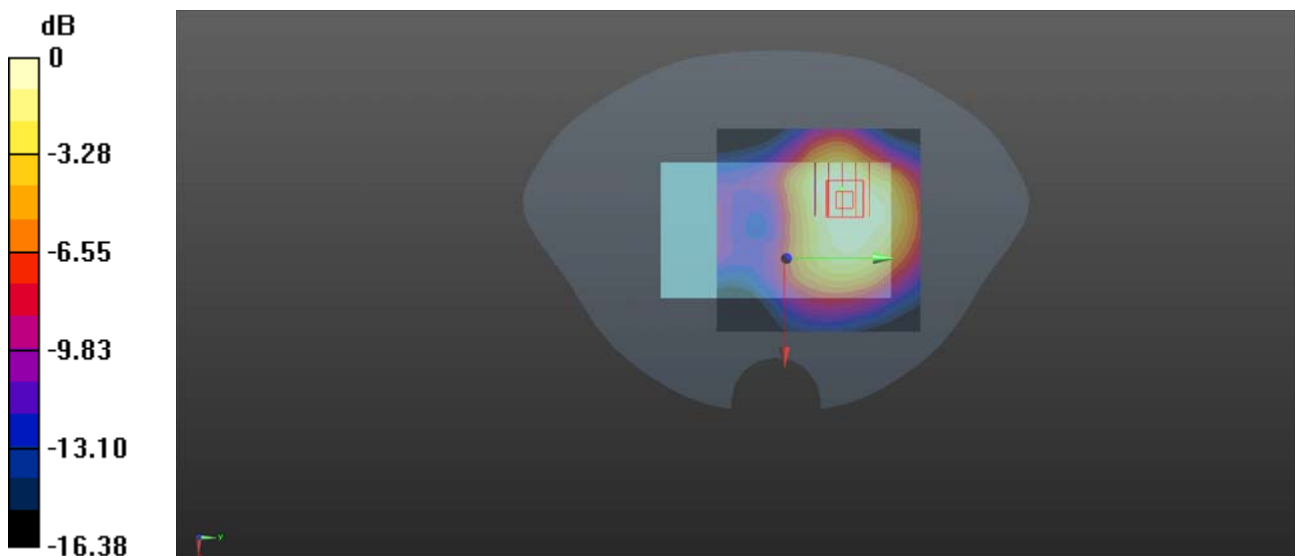
Ch26365/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.885 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.491 W/kg

Maximum value of SAR (measured) = 0.983 W/kg



0 dB = 0.983 W/kg

LTE Band 26_15MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch26865

Communication System: UID 0, LTE (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL_900 Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 42.882$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(9.81, 9.81, 9.81) @ 831.5 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch26865/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.511 W/kg

Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

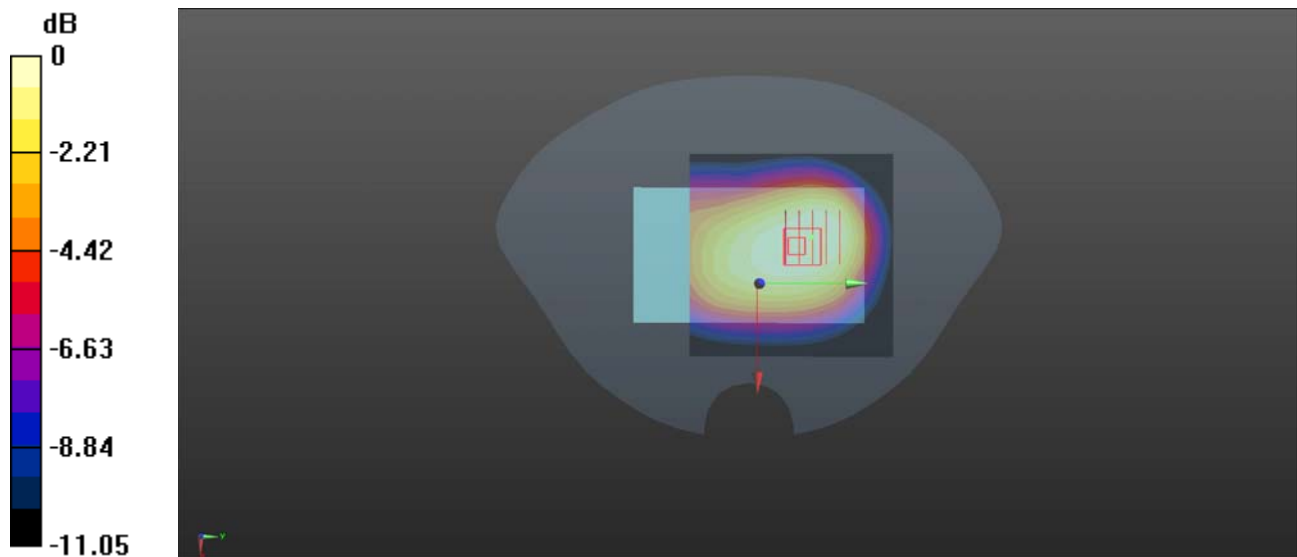
Reference Value = 20.36 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.561 W/kg

SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.307 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Maximum value of SAR (measured) = 0.493 W/kg



0 dB = 0.493 W/kg

LTE Band 30_10MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch27710

Communication System: UID 0, LTE (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Medium: HSL_2300 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.56$ S/m; $\epsilon_r = 39.354$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.66, 7.66, 7.66) @ 2310 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch27710/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.834 W/kg

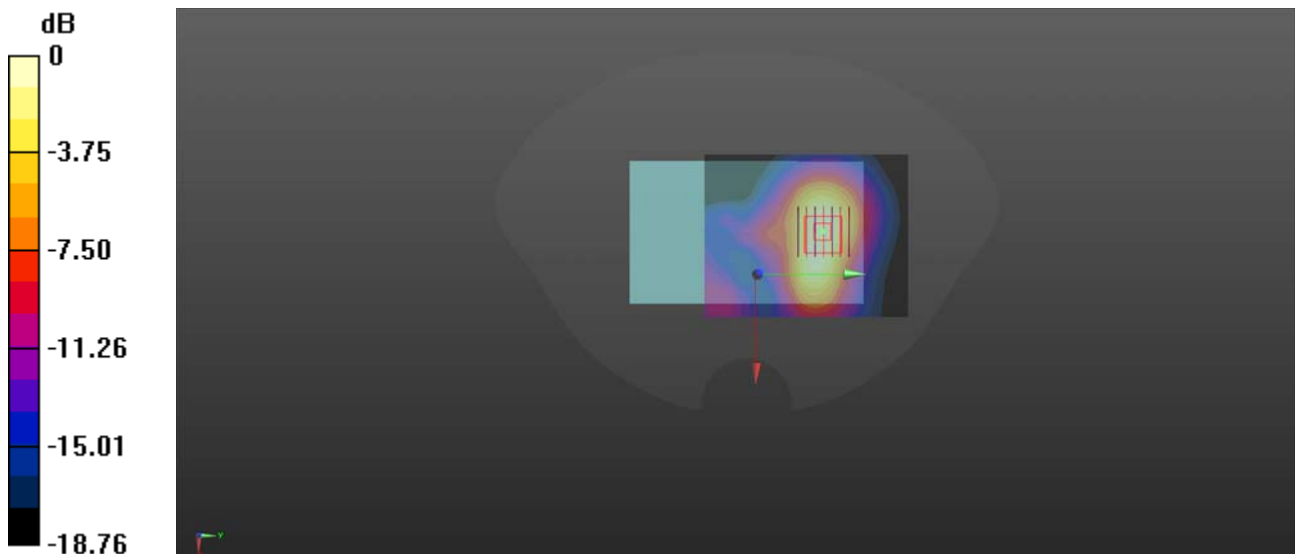
Ch27710/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.296 V/m; Power Drift = 1.12 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.319 W/kg

Maximum value of SAR (measured) = 0.843 W/kg



0 dB = 0.843 W/kg

LTE Band 38_20MHz_QPSK_1RB_0Offset_Front Side_10mm_Ch38000

Communication System: UID 0, LTE (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59

Medium: HSL_2600 Medium parameters used: $f = 2595$ MHz; $\sigma = 1.98$ S/m; $\epsilon_r = 38.287$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2595 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch38000/Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.648 W/kg

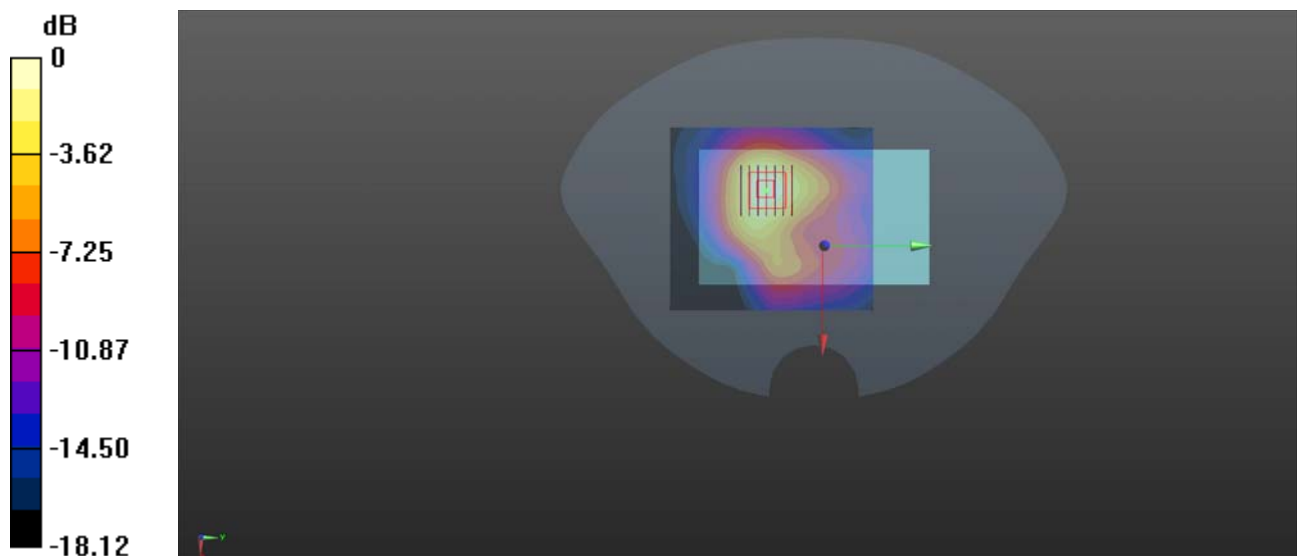
Ch38000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.219 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.875 W/kg

SAR(1 g) = 0.443 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.649 W/kg



0 dB = 0.649 W/kg

LTE Band 41_20MHz_QPSK_1RB_0Offset_Front Side_10mm_Ch40620_P2

Communication System: UID 0, LTE (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59

Medium: HSL_2600 Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.973$ S/m; $\epsilon_r = 38.214$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2593 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch40620/Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.759 W/kg

Ch40620/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

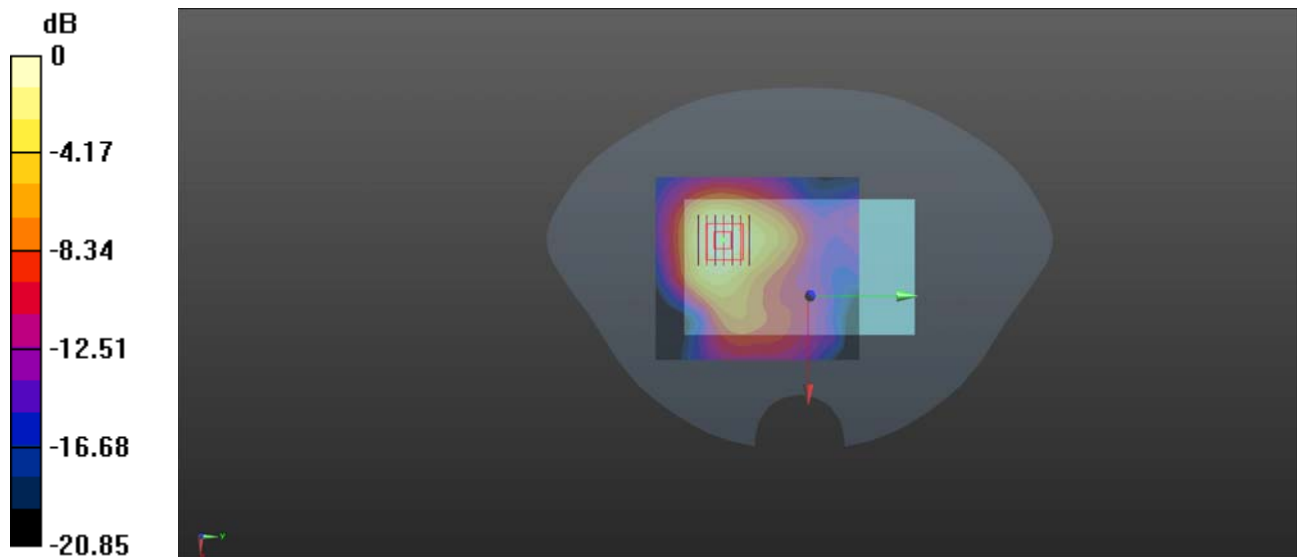
Reference Value = 4.771 V/m; Power Drift = 0.98 dB

Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.267 W/kg

Smallest distance from peaks to all points 3 dB below = 15 mm

Maximum value of SAR (measured) = 0.753 W/kg



0 dB = 0.753 W/kg

LTE Band 42_20MHz_QPSK_1RB_0Offset_Front Side_10mm_Ch43340

Communication System: UID 0, LTE (0); Frequency: 3575 MHz; Duty Cycle: 1:1.59

Medium: HSL_3500 Medium parameters used: $f = 3575$ MHz; $\sigma = 2.932$ S/m; $\epsilon_r = 39.406$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7624; ConvF(7.08, 7.08, 7.08) @ 3575 MHz; Calibrated: 2022.03.31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch43340/Area Scan (91x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.379 W/kg

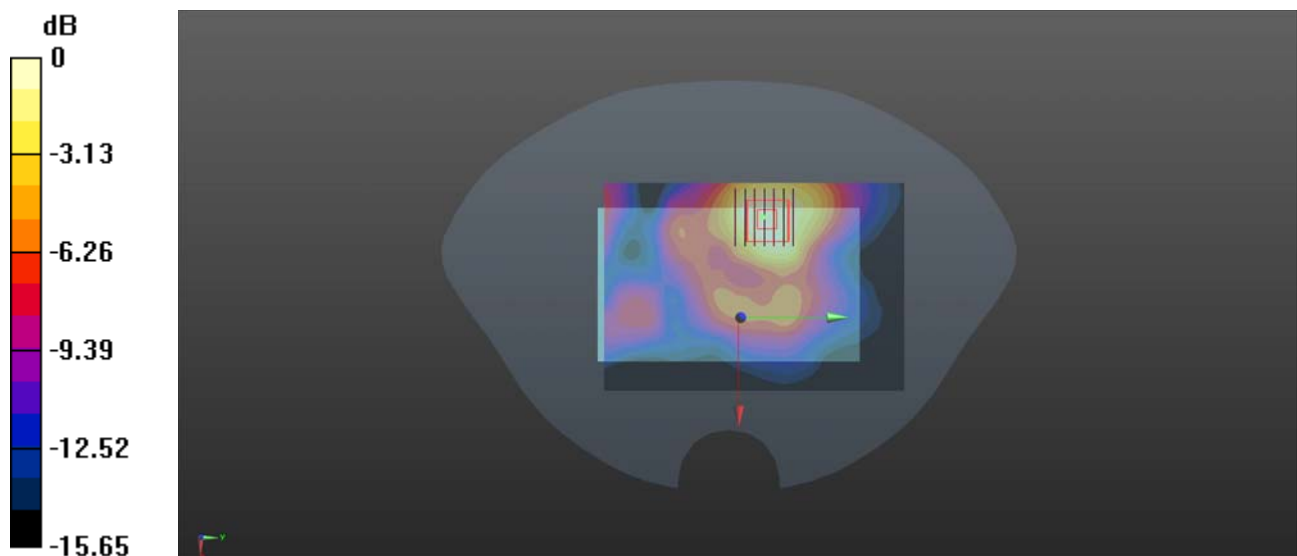
Ch43340/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.570 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.367 W/kg



0 dB = 0.367 W/kg

LTE Band 48_20MHz_QPSK_1RB_0Offset_Left Side_10mm_Ch55990

Communication System: UID 0, LTE (0); Frequency: 3625 MHz; Duty Cycle: 1:1.59

Medium: HSL_3700 Medium parameters used: $f = 3625$ MHz; $\sigma = 3.212$ S/m; $\epsilon_r = 39.098$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.2 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7624; ConvF(6.73, 6.73, 6.73) @ 3625 MHz; Calibrated: 2022.03.31
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch55990/Area Scan (51x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.541 W/kg

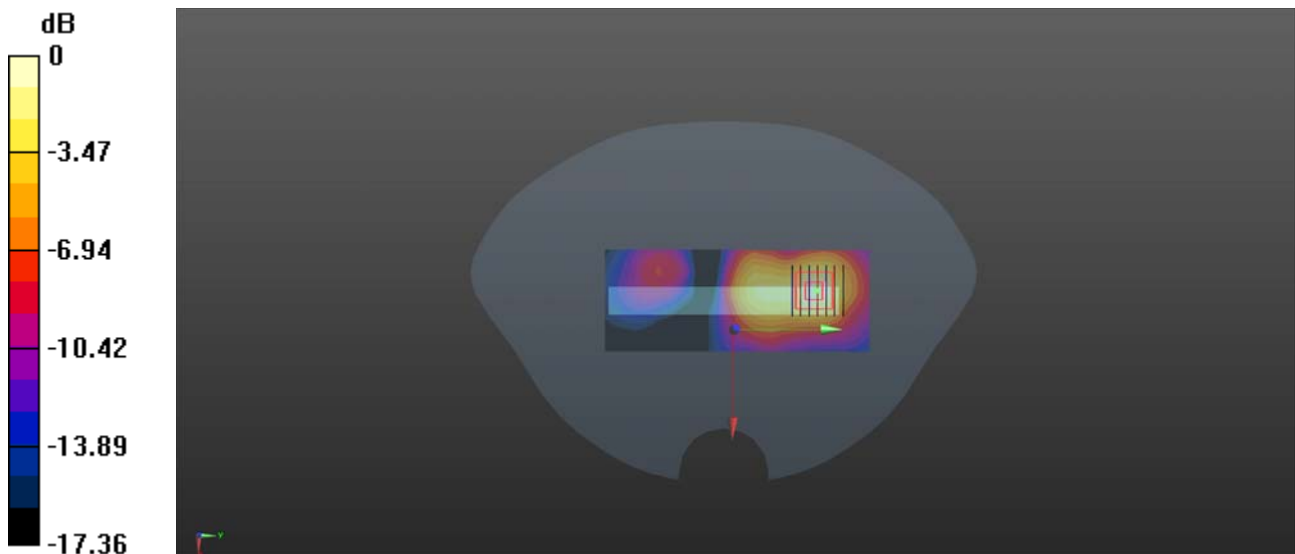
Ch55990/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.053 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.154 W/kg

Maximum value of SAR (measured) = 0.569 W/kg



0 dB = 0.569 W/kg

LTE Band 66_20MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch132322

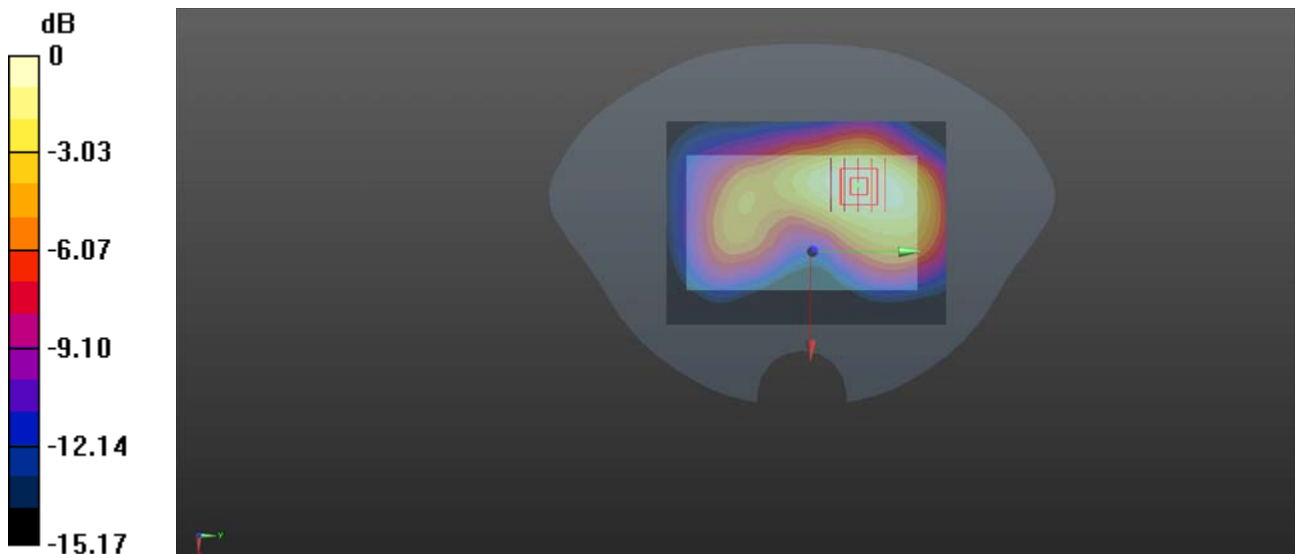
Communication System: UID 0, LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium: HSL_1800 Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.438 \text{ S/m}$; $\epsilon_r = 39.567$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(8.26, 8.26, 8.26) @ 1745 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch132322/Area Scan (81x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.04 W/kg

Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.65 V/m ; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.24 W/kg
SAR(1 g) = 0.784 W/kg ; SAR(10 g) = 0.491 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg

LTE Band 71_20MHz_QPSK_1RB_0Offset_Back Side_10mm_Ch133322

Communication System: UID 0, LTE (0); Frequency: 683 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 683 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 42.287$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : $23.2 \text{ }^{\circ}\text{C}$; Liquid Temperature : $22.1 \text{ }^{\circ}\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(10.2, 10.2, 10.2) @ 683 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch133322/Area Scan (81x111x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.250 W/kg

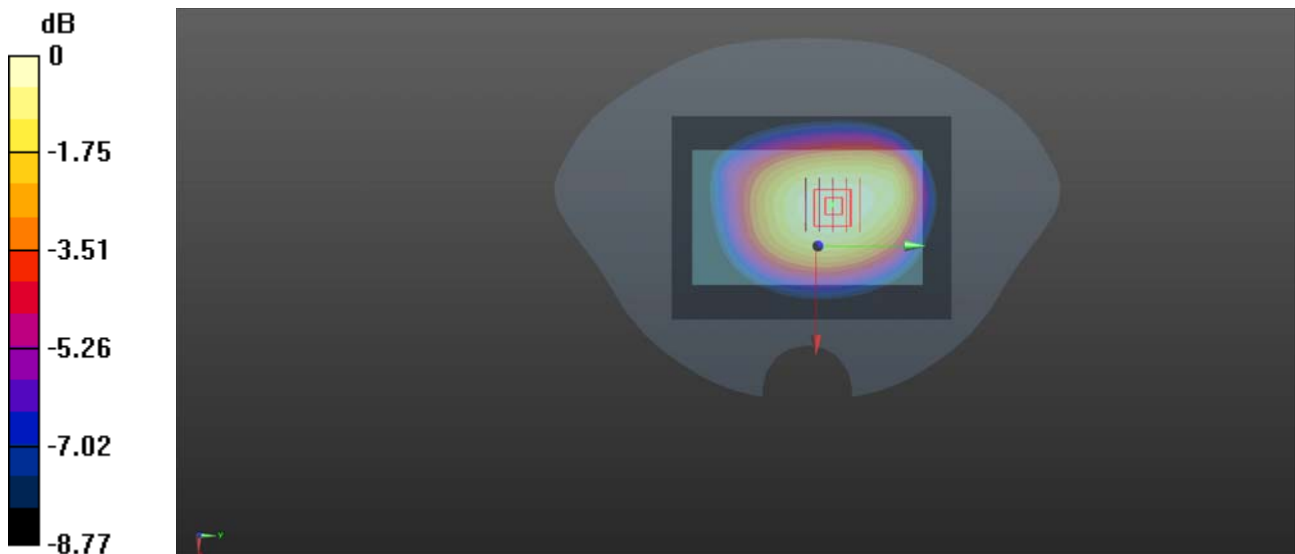
Ch133322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.51 V/m ; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.213 W/kg ; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.250 W/kg



0 dB = 0.250 W/kg

5G NR n2_20MHz_DFT-S-QPSK_1RB_1Offset_Back Side_10mm_Ch376000

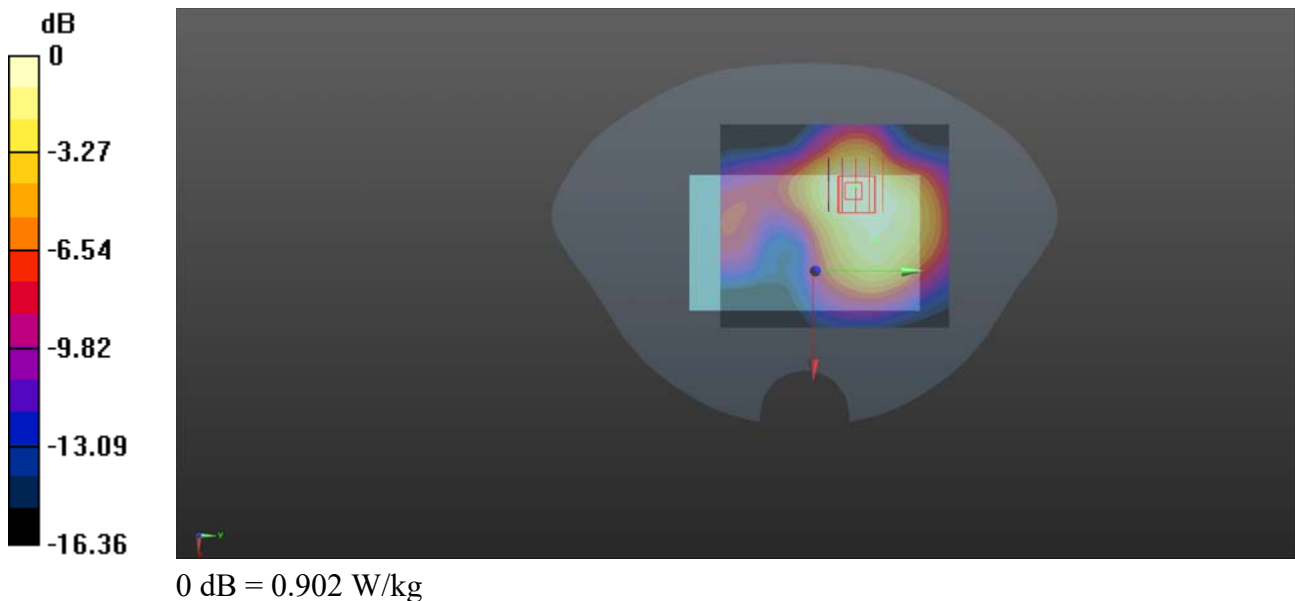
Communication System: UID 0, 5G NR (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL_1800 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.529$ S/m; $\epsilon_r = 39.178$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.99, 7.99, 7.99) @ 1880 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch376000/Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.946 W/kg

Ch376000/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.999 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.436 W/kg
Maximum value of SAR (measured) = 0.902 W/kg



5G NR n5_20MHz_DFT-S-QPSK_1RB_1Offset_Back Side_10mm_Ch167300

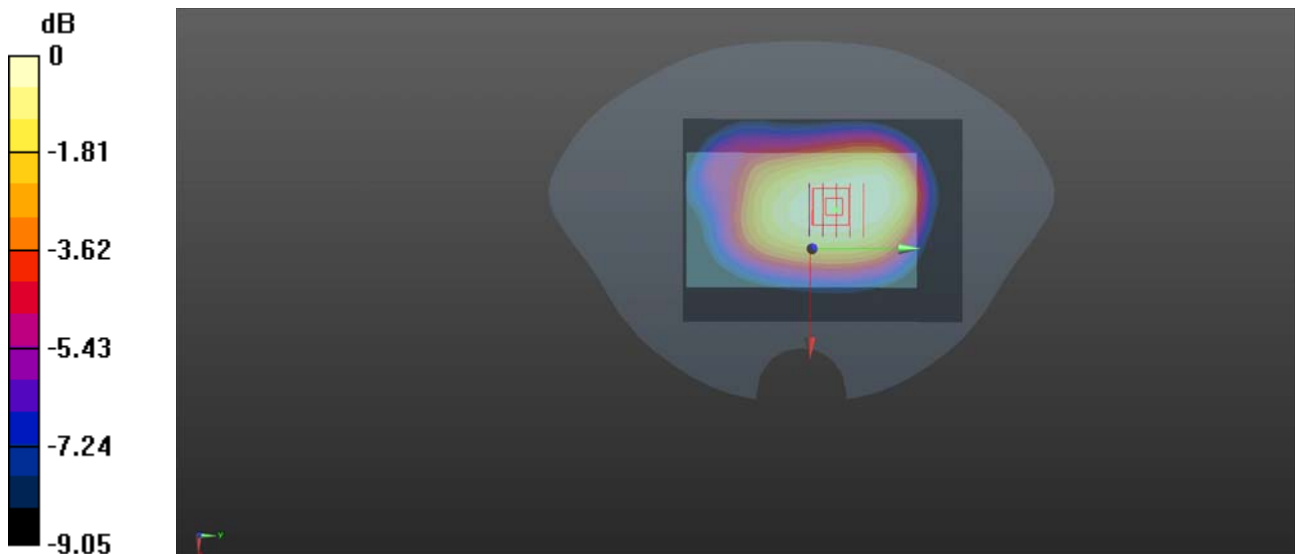
Communication System: UID 0, 5G NR (0); Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: HSL_900 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.943$ S/m; $\epsilon_r = 42.967$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(9.81, 9.81, 9.81) @ 836.5 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch20525/Area Scan (81x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.461 W/kg

Ch20525/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.89 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.515 W/kg
SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.291 W/kg
Maximum value of SAR (measured) = 0.460 W/kg



0 dB = 0.460 W/kg

5G NR n7_20MHz_DFT-S-QPSK_1RB_1Offset_Back Side_10mm_Ch512000

Communication System: UID 0, 5G NR (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2560$ MHz; $\sigma = 1.941$ S/m; $\epsilon_r = 38.282$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2560 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch502000/Area Scan (91x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

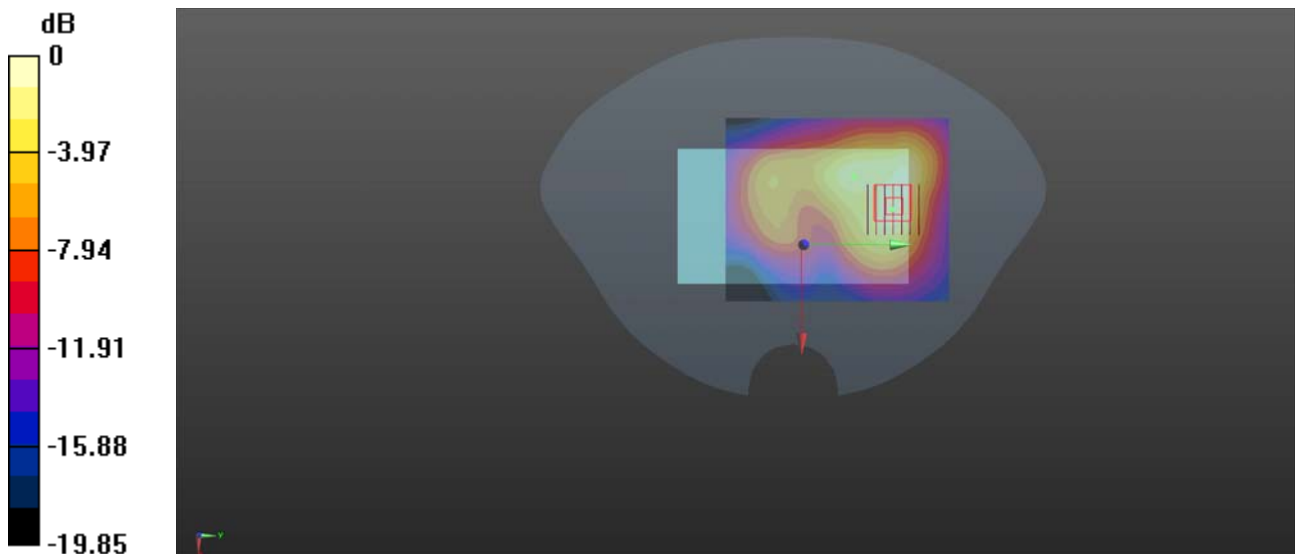
Ch502000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.887 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.846 W/kg; SAR(10 g) = 0.433 W/kg

Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.24 W/kg

5G NR n38_40MHz_DFT-S-QPSK_1RB_1Offset_Front Side_10mm_Ch520000

Communication System: UID 0, 5G NR (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.987$ S/m; $\epsilon_r = 38.294$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2600 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch520000/Area Scan (91x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

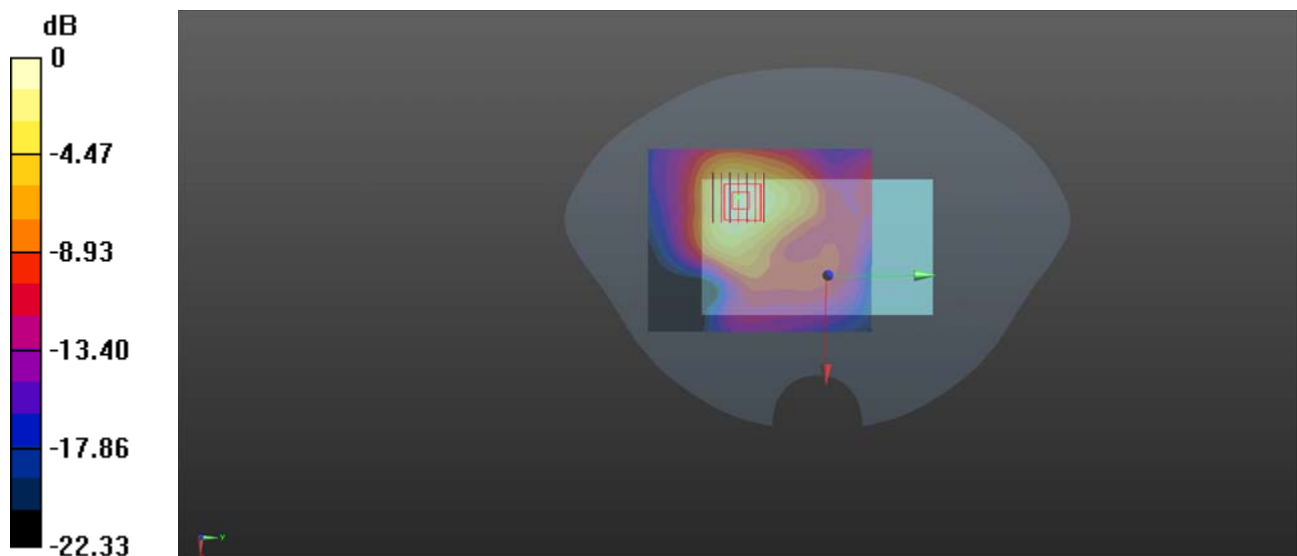
Ch520000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.926 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.467 W/kg

Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg

5G NR n41_100MHz_DFT-S-QPSK_1RB_1Offset_Front Side_10mm_Ch518598

Communication System: UID 0, 5G NR (0); Frequency: 2593 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2593$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 38.072$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.08, 7.08, 7.08) @ 2593 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch518598/Area Scan (91x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

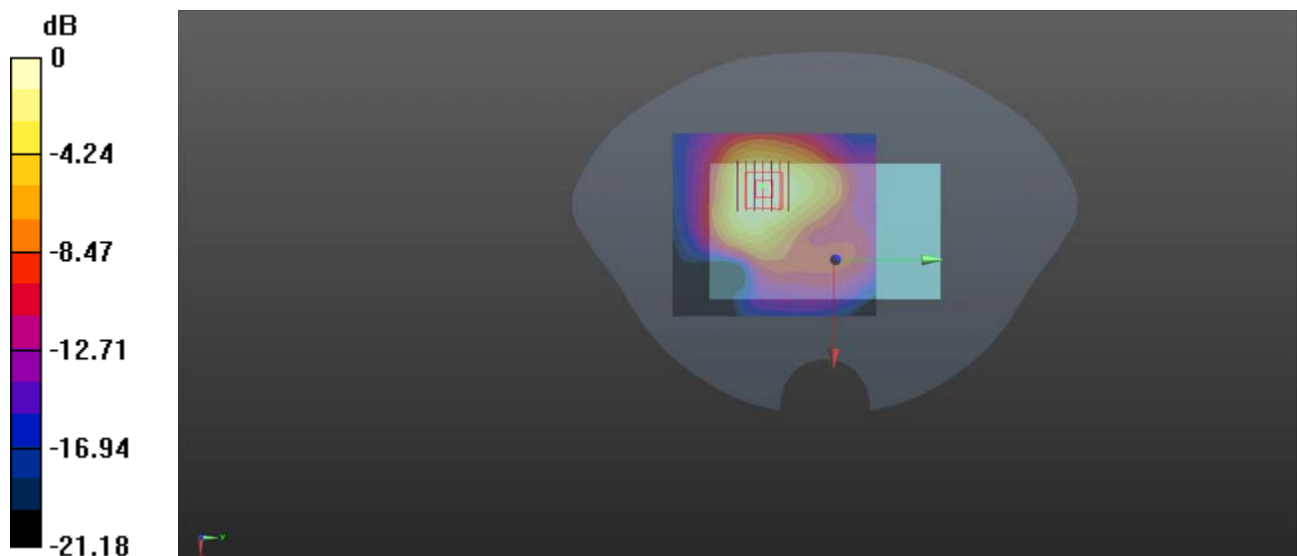
Ch518598/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.152 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.471 W/kg

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.28 W/kg

5G NR n66_20MHz_DFT-S-QPSK_1RB_1Offset_Back Side_10mm_Ch349000

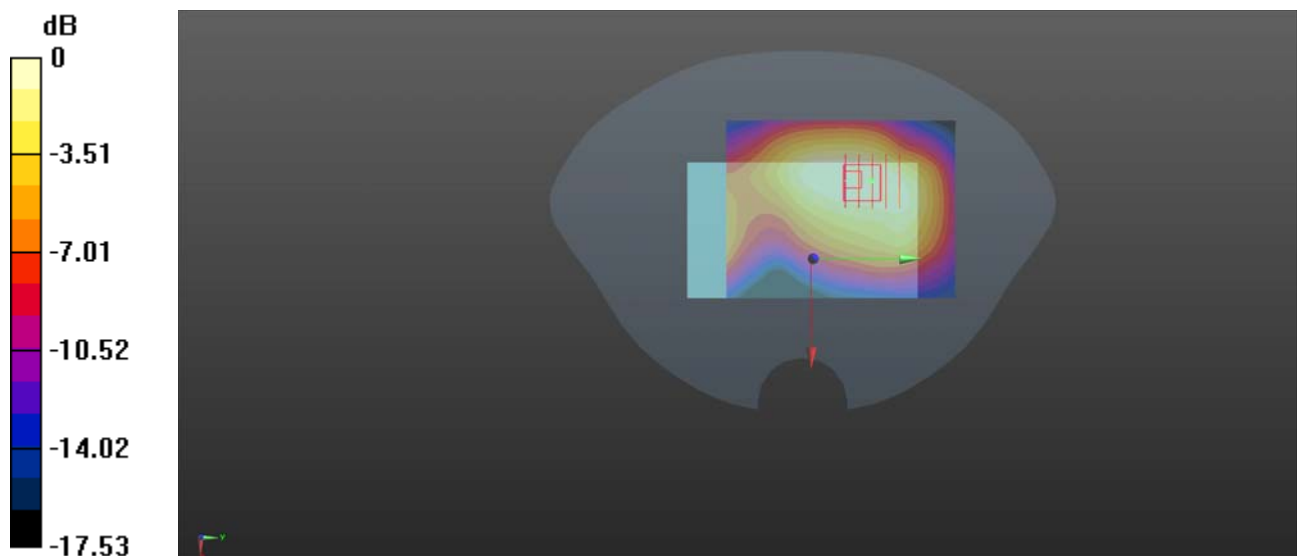
Communication System: UID 0, 5G NR (0); Frequency: 1745 MHz; Duty Cycle: 1:1
 Medium: HSL_1800 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 39.567$; $\rho = 1000$ kg/m³
 Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(8.26, 8.26, 8.26) @ 1745 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch349000/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.656 W/kg

Ch349000/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 9.883 V/m; Power Drift = 0.11 dB
 Peak SAR (extrapolated) = 0.801 W/kg
SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.306 W/kg
 Maximum value of SAR (measured) = 0.634 W/kg



0 dB = 0.634 W/kg

5G NR n71_20MHz_DFT-S-QPSK_1RB_1Offset_Back Side_10mm_Ch136100

Communication System: UID 0, 5G NR (0); Frequency: 680.5 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 680.5$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 42.339$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(10.2, 10.2, 10.2) @ 680.5 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch136100/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.247 W/kg

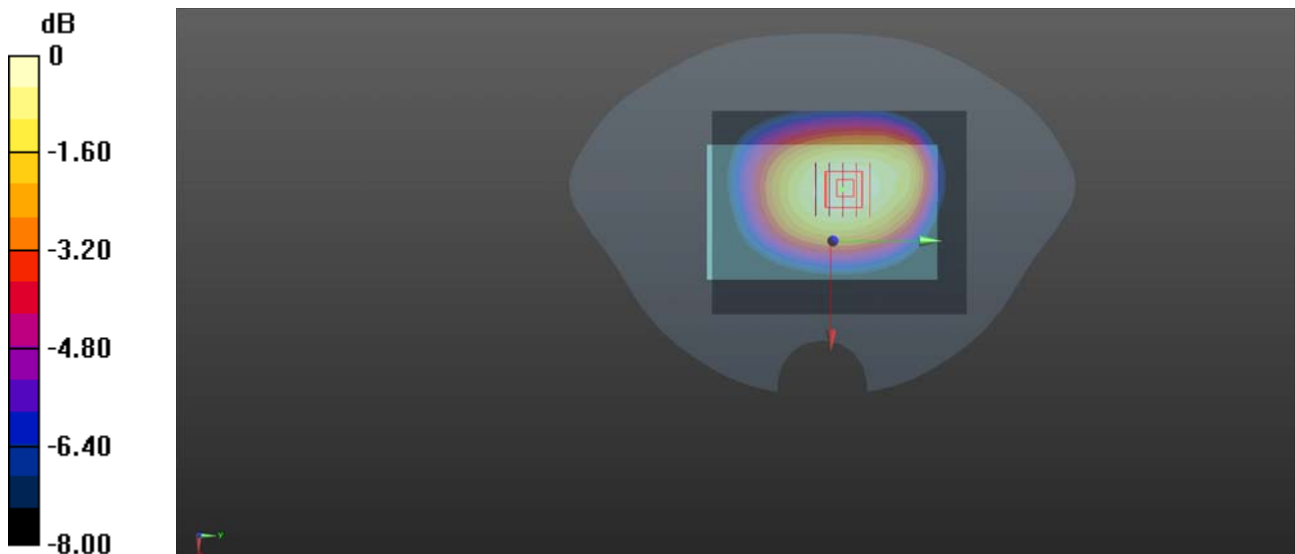
Ch136100/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.61 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.162 W/kg

Maximum value of SAR (measured) = 0.250 W/kg



0 dB = 0.250 W/kg

5G NR n77_100MHz_DFT-S-QPSK_1RB_1Offset_Left Side_10mm_Ch662000

Communication System: UID 0, 5G NR (0); Frequency: 3930 MHz; Duty Cycle: 1:1

Medium: HSL_3900 Medium parameters used: $f = 3930$ MHz; $\sigma = 3.293$ S/m; $\epsilon_r = 39.142$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(6.22, 6.22, 6.22) @ 3930 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch662000/Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.40 W/kg

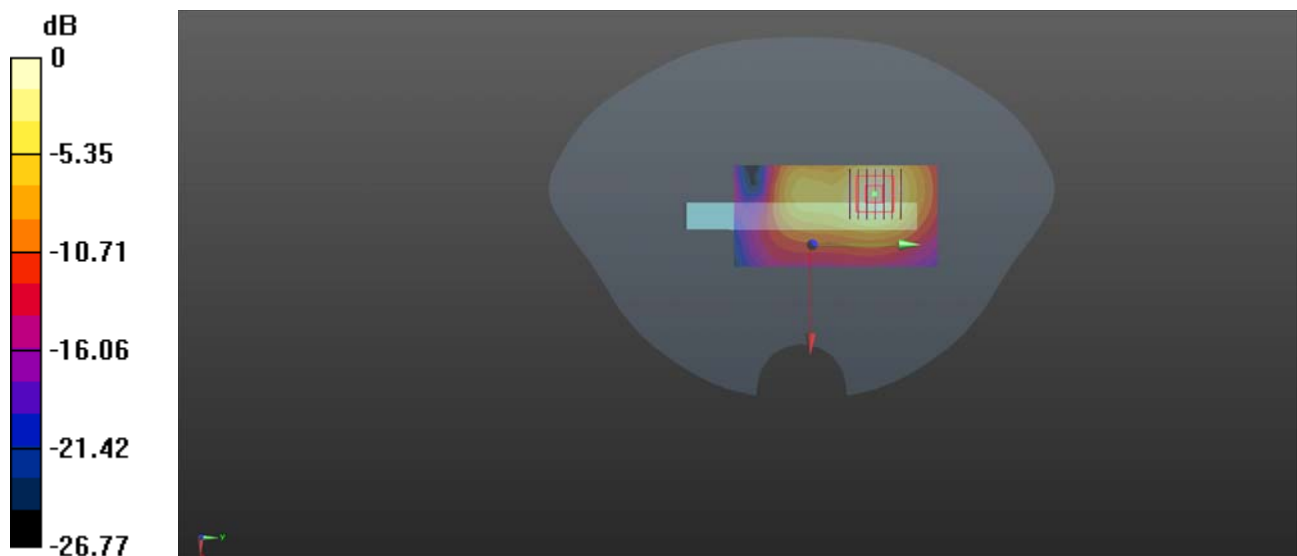
Ch662000/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.292 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.853 W/kg; SAR(10 g) = 0.373 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg

5G NR n78_100MHz_DFT-S-QPSK_135RB_1Offset_Left Side_10mm_Ch633334

Communication System: UID 0, 5G NR (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL_3900 Medium parameters used: $f = 3500$ MHz; $\sigma = 3.039$ S/m; $\epsilon_r = 39.064$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(6.22, 6.22, 6.22) @ 3500 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch633334/Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.50 W/kg

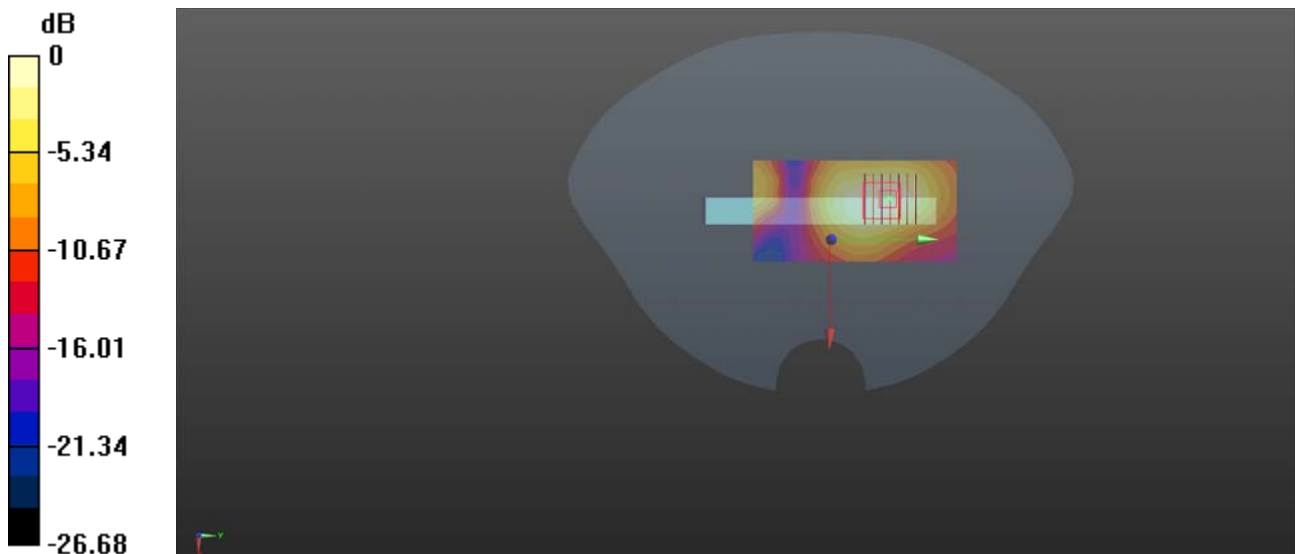
Ch633334/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.493 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.446 W/kg

Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.46 W/kg

WLAN 2.4GHz_802.11b 1Mbps_Right Side_10mm_Ch6_Ant 8

Communication System: UID 0, WLAN 2.4GHz 802.11b (0); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: HSL_2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.762$ S/m; $\epsilon_r = 38.862$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(7.42, 7.42, 7.42) @ 2437 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch6/Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.528 W/kg

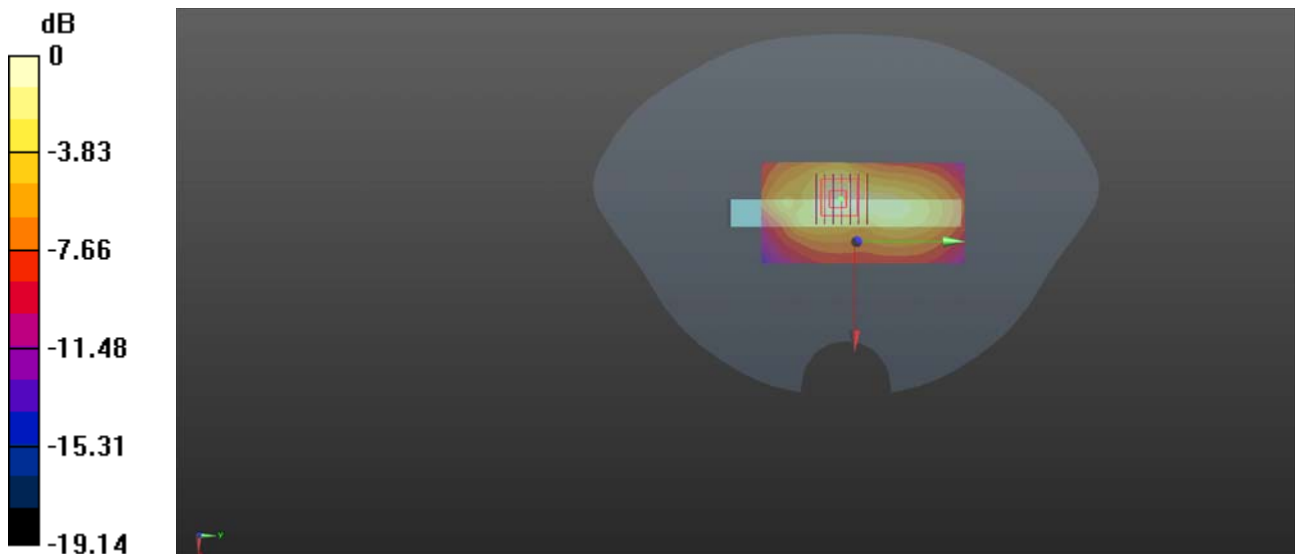
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.92 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.715 W/kg

SAR(1 g) = 0.371 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.537 W/kg



0 dB = 0.537 W/kg

WLAN 5.2GHz_802.11ac-VHT40 MCS0_Right Side_10mm_Ch46

Communication System: UID 0, WLAN 5GHz (0); Frequency: 5230 MHz; Duty Cycle: 1:1
Medium: HSL_5250 Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.685 \text{ S/m}$; $\epsilon_r = 36.07$; $\rho = 1000 \text{ kg/m}^3$
Ambient Temperature : $23.2 \text{ }^\circ\text{C}$; Liquid Temperature : $22.1 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7608; ConvF(5.16, 5.16, 5.16) @ 5230 MHz; Calibrated: 2022.12.12
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch46/Area Scan (61x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.04 W/kg

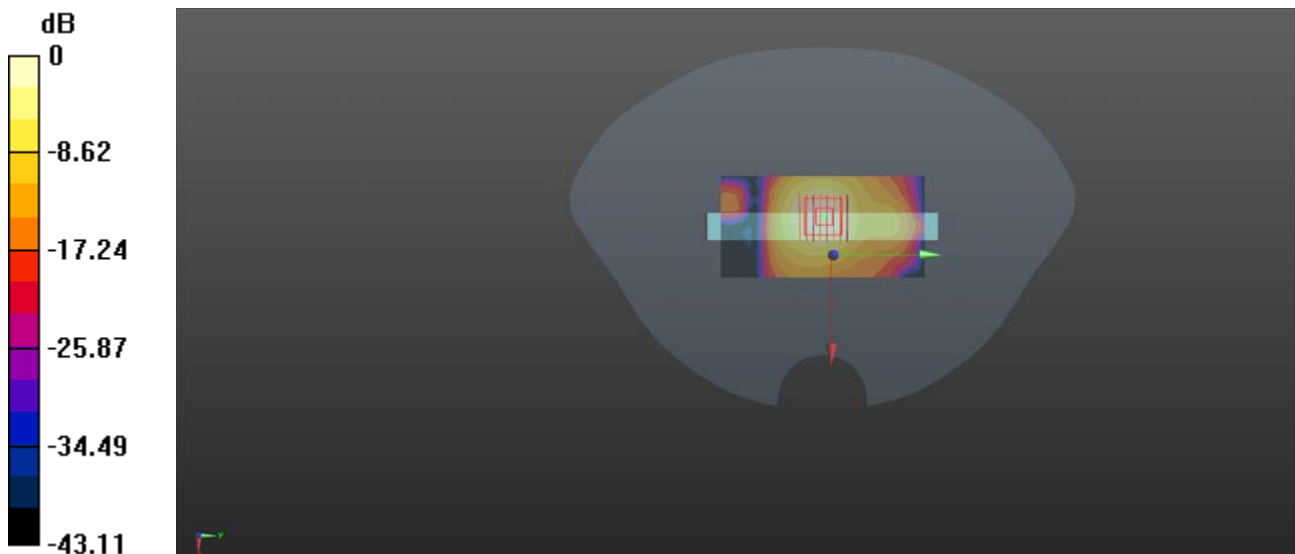
Ch46/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 10.12 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.560 W/kg ; SAR(10 g) = 0.208 W/kg

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg

WLAN 5.8GHz_802.11ax20(RU52) MCS0_Left Side_10mm_Ch165

Communication System: UID 0, WLAN 5GHz (0); Frequency: 5825 MHz; Duty Cycle: 1:1
Medium: HSL_5750 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.291$ S/m; $\epsilon_r = 35.168$; $\rho = 1000$ kg/m³
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.1 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3823; ConvF(4.45, 4.45, 4.45) @ 5825 MHz; Calibrated: 2022.03.04
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- Phantom: SAM 2; Type: QD000P40CC; Serial: TP:1464
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Ch165/Area Scan (61x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.781 W/kg

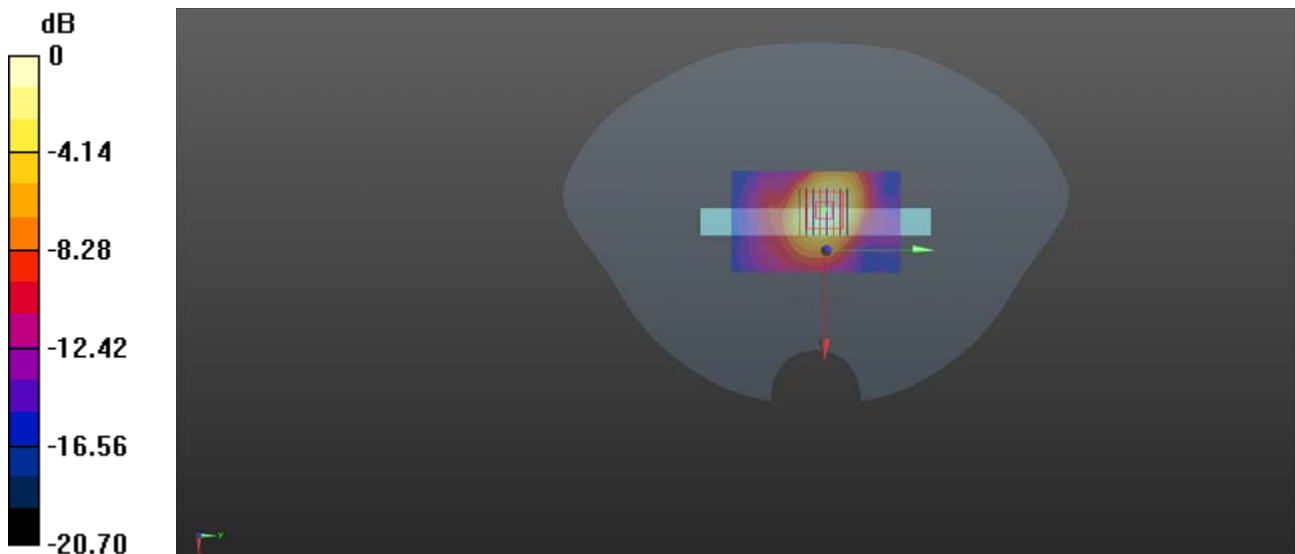
Ch165/Zoom Scan (8x8x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.503 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.378 W/kg; SAR(10 g) = 0.151 W/kg

Maximum value of SAR (measured) = 0.703 W/kg



0 dB = 0.703 W/kg



REPORT No.: SZ22080079S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

Full Power for Ant 0 & Ant 2 & Ant 3

Band 2 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.70	22.85	22.76	23.5
20	QPSK	1	49	22.71	22.59	22.69	
20	QPSK	1	99	22.65	22.68	22.63	
20	QPSK	50	0	21.73	21.79	21.71	22.5
20	QPSK	50	24	21.65	21.68	21.58	
20	QPSK	50	50	21.71	21.74	21.70	
20	QPSK	100	0	21.67	21.65	21.66	22.5
20	16QAM	1	0	21.75	21.81	21.77	
20	16QAM	1	49	21.69	21.74	21.73	
20	16QAM	1	99	21.65	21.68	21.62	21.5
20	16QAM	50	0	20.78	20.85	20.73	
20	16QAM	50	24	20.72	20.77	20.68	
20	16QAM	50	50	20.63	20.69	20.74	22.5
20	16QAM	100	0	20.70	20.72	20.66	
20	64QAM	1	0	21.66	21.65	21.68	
20	64QAM	1	49	21.58	21.62	21.60	21.5
20	64QAM	1	99	21.56	21.53	21.55	
20	64QAM	50	0	20.70	20.73	20.69	
20	64QAM	50	24	20.59	20.62	20.70	21.5
20	64QAM	50	50	20.53	20.53	20.58	
20	64QAM	100	0	20.65	20.60	20.56	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.53	22.83	22.76	23.5
15	QPSK	1	37	22.75	22.40	22.81	
15	QPSK	1	74	22.81	22.70	22.74	
15	QPSK	36	0	21.88	21.75	21.82	22.5
15	QPSK	36	20	21.57	21.64	21.43	
15	QPSK	36	39	21.64	21.60	21.60	
15	QPSK	75	0	21.71	21.60	21.55	22.5
15	16QAM	1	0	21.88	21.88	21.60	
15	16QAM	1	37	21.66	21.64	21.79	
15	16QAM	1	74	21.68	21.54	21.45	21.5
15	16QAM	36	0	20.86	20.78	20.53	
15	16QAM	36	20	20.52	20.91	20.58	
15	16QAM	36	39	20.59	20.82	20.55	22.5
15	16QAM	75	0	20.65	20.72	20.73	
15	64QAM	1	0	21.57	21.77	21.51	
15	64QAM	1	37	21.58	21.46	21.50	21.5
15	64QAM	1	74	21.54	21.46	21.64	
15	64QAM	36	0	20.64	20.78	20.83	
15	64QAM	36	20	20.71	20.81	20.88	21.5
15	64QAM	36	39	20.53	20.69	20.67	
15	64QAM	75	0	20.75	20.76	20.45	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.77	22.82	22.76	23.5
10	QPSK	1	25	22.72	22.66	22.57	
10	QPSK	1	49	22.55	22.60	22.80	
10	QPSK	25	0	21.84	21.87	21.54	22.5
10	QPSK	25	12	21.77	21.59	21.45	
10	QPSK	25	25	21.76	21.54	21.85	
10	QPSK	50	0	21.84	21.59	21.73	22.5
10	16QAM	1	0	21.94	21.82	21.93	
10	16QAM	1	25	21.89	21.90	21.76	
10	16QAM	1	49	21.82	21.60	21.55	21.5
10	16QAM	25	0	20.90	20.78	20.66	
10	16QAM	25	12	20.91	20.57	20.49	
10	16QAM	25	25	20.81	20.86	20.71	22.5
10	16QAM	50	0	20.67	20.56	20.61	
10	64QAM	1	0	21.79	21.83	21.72	
10	64QAM	1	25	21.66	21.80	21.73	21.5
10	64QAM	1	49	21.45	21.49	21.54	
10	64QAM	25	0	20.79	20.79	20.85	
10	64QAM	25	12	20.52	20.47	20.57	21.5
10	64QAM	25	25	20.73	20.54	20.49	
10	64QAM	50	0	20.61	20.45	20.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.64	22.81	22.58	23.5
5	QPSK	1	12	22.54	22.79	22.68	
5	QPSK	1	24	22.80	22.55	22.63	
5	QPSK	12	0	21.60	21.86	21.87	22.5
5	QPSK	12	7	21.59	21.72	21.53	
5	QPSK	12	13	21.91	21.65	21.73	
5	QPSK	25	0	21.81	21.52	21.59	22.5
5	16QAM	1	0	21.94	21.81	21.59	
5	16QAM	1	12	21.59	21.57	21.76	
5	16QAM	1	24	21.47	21.70	21.70	21.5
5	16QAM	12	0	20.91	20.88	20.64	
5	16QAM	12	7	20.84	20.65	20.48	
5	16QAM	12	13	20.83	20.76	20.81	22.5
5	16QAM	25	0	20.62	20.66	20.60	
5	64QAM	1	0	21.84	21.48	21.55	
5	64QAM	1	12	21.75	21.74	21.80	21.5
5	64QAM	1	24	21.37	21.71	21.51	
5	64QAM	12	0	20.77	20.89	20.60	
5	64QAM	12	7	20.65	20.58	20.64	21.5
5	64QAM	12	13	20.59	20.53	20.72	
5	64QAM	25	0	20.83	20.79	20.71	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.76	22.83	22.74	23.5
3	QPSK	1	8	22.64	22.69	22.78	
3	QPSK	1	14	22.68	22.68	22.45	
3	QPSK	8	0	21.81	21.85	21.86	22.5
3	QPSK	8	4	21.65	21.49	21.63	

Band 4 (AWS Band) (dBm)							
Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20950	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.68	22.76	22.70	23.5
20	QPSK	1	49	22.57	22.74	22.58	
20	QPSK	1	99	22.49	22.73	22.57	
20	QPSK	50	0	21.75	21.87	21.57	22.5
20	QPSK	50	24	21.72	21.48	21.63	
20	QPSK	50	50	21.73	21.87	21.81	
20	QPSK	100	0	21.82	21.57	21.72	22.5
20	16QAM	1	0	21.59	22.01	21.64	
20	16QAM	1	49	21.51	21.58	21.91	
20	16QAM	1	99	21.60	21.84	21.63	21.5
20	16QAM	50	0	20.81	20.74	20.68	
20	16QAM	50	24	20.92	20.77	20.65	
20	16QAM	50	50	20.57	20.79	20.87	22.5
20	16QAM	100	0	20.56	20.86	20.69	
20	64QAM	1	0	21.81	21.82	21.51	
20	64QAM	1	49	21.41	21.42	21.65	21.5
20	64QAM	1	99	21.60	21.45	21.65	
20	64QAM	50	0	20.60	20.73	20.79	
20	64QAM	50	24	20.48	20.72	20.65	21.5
20	64QAM	50	50	20.70	20.33	20.51	
20	64QAM	100	0	20.52	20.66	20.36	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.74	22.67	22.68	23.5
15	QPSK	1	37	22.67	22.71	22.69	
15	QPSK	1	74	22.58	22.68	22.63	
15	QPSK	36	0	21.69	21.55	21.54	22.5
15	QPSK	36	20	21.83	21.70	21.72	
15	QPSK	36	39	21.79	21.79	21.79	
15	QPSK	75	0	21.80	21.77	21.59	22.5
15	16QAM	1	0	21.76	21.84	21.89	
15	16QAM	1	37	21.67	21.63	21.61	
15	16QAM	1	74	21.77	21.49	21.58	21.5
15	16QAM	36	0	20.72	20.76	20.87	
15	16QAM	36	20	20.60	20.76	20.52	
15	16QAM	36	39	20.77	20.50	20.55	22.5
15	16QAM	75	0	20.53	20.62	20.56	
15	64QAM	1	0	21.54	21.85	21.77	
15	64QAM	1	37	21.76	21.50	21.42	21.5
15	64QAM	1	74	21.68	21.73	21.40	
15	64QAM	36	0	20.55	20.88	20.70	21.5
15	64QAM	36	20	20.78	20.75	20.64	
15	64QAM	36	39	20.55	20.72	20.52	
15	64QAM	75	0	20.54	20.52	20.67	21.5
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.69	22.73	22.65	23.5
10	QPSK	1	25	22.57	22.67	22.71	
10	QPSK	1	49	22.67	22.66	22.53	
10	QPSK	25	0	21.64	21.80	21.56	22.5
10	QPSK	25	12	21.85	21.55	21.66	
10	QPSK	25	25	21.55	21.76	21.60	
10	QPSK	50	0	21.66	21.46	21.57	22.5
10	16QAM	1	0	21.67	21.84	21.72	
10	16QAM	1	25	21.62	21.62	21.63	
10	16QAM	1	49	21.83	21.59	21.75	2

3	QPSK	8	7	21.58	21.83	21.87	22.5
3	QPSK	15	0	21.63	21.56	21.46	
3	16QAM	1	0	21.75	21.95	21.63	22.5
3	16QAM	1	8	21.78	21.91	21.67	
3	16QAM	1	14	21.57	21.80	21.62	21.5
3	16QAM	8	0	20.86	20.95	20.57	
3	16QAM	8	4	20.85	20.74	20.85	21.5
3	16QAM	8	7	20.55	20.89	20.80	
3	16QAM	15	0	20.73	20.57	20.75	22.5
3	64QAM	1	0	21.70	21.70	21.70	
3	64QAM	1	8	21.65	21.75	21.51	22.5
3	64QAM	1	14	21.53	21.53	21.57	
3	64QAM	8	0	20.75	20.57	20.55	21.5
3	64QAM	8	4	20.59	20.76	20.84	
3	64QAM	8	7	20.34	20.67	20.69	21.5
3	64QAM	15	0	20.61	20.50	20.62	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.77	22.68	22.69	23.5
1.4	QPSK	1	3	22.70	22.53	22.49	
1.4	QPSK	1	5	22.72	22.68	22.45	23.5
1.4	QPSK	3	0	21.96	21.77	21.81	
1.4	QPSK	3	1	21.53	21.87	21.64	22.5
1.4	QPSK	3	3	21.87	21.71	21.79	
1.4	QPSK	6	0	21.63	21.63	21.82	22.5
1.4	16QAM	1	0	21.92	21.80	21.68	
1.4	16QAM	1	3	21.72	21.93	21.81	22.5
1.4	16QAM	1	5	21.60	21.58	21.57	
1.4	16QAM	3	0	20.72	20.78	20.86	21.5
1.4	16QAM	3	1	20.66	20.94	20.81	
1.4	16QAM	3	3	20.70	20.67	20.77	21.5
1.4	16QAM	6	0	20.89	20.59	20.73	
1.4	64QAM	1	0	21.80	21.85	21.50	22.5
1.4	64QAM	1	3	21.68	21.55	21.58	
1.4	64QAM	1	5	21.74	21.54	21.57	22.5
1.4	64QAM	3	0	20.79	20.67	20.56	
1.4	64QAM	3	1	20.65	20.51	20.72	21.5
1.4	64QAM	3	3	20.52	20.53	20.52	
1.4	64QAM	6	0	20.71	20.69	20.42	21.5

3	QPSK	8	7	21.55	21.75	21.56	22.5
3	QPSK	15	0	21.72	21.50	21.57	
3	16QAM	1	0	21.82	21.86	21.86	22.5
3	16QAM	1	8	21.88	21.87	21.62	
3	16QAM	1	14	21.58	21.53	21.71	21.5
3	16QAM	8	0	20.80	20.94	20.67	
3	16QAM	8	4	20.61	20.61	20.79	21.5
3	16QAM	8	7	20.83	20.58	20.56	
3	16QAM	15	0	20.60	20.86	20.51	22.5
3	64QAM	1	0	21.59	21.64	21.51	
3	64QAM	1	8	21.58	21.79	21.56	22.5
3	64QAM	1	14	21.51	21.58	21.45	
3	64QAM	8	0	20.63	20.75	20.76	21.5
3	64QAM	8	4	20.65	20.52	20.77	
3	64QAM	8	7	20.67	20.56	20.67	21.5
3	64QAM	15	0	20.62	20.71	20.68	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.57	22.70	22.64	23.5
1.4	QPSK	1	3	22.71	22.68	22.66	
1.4	QPSK	1	5	22.61	22.65	22.60	23.5
1.4	QPSK	3	0	21.92	21.90	21.91	
1.4	QPSK	3	1	21.73	21.81	21.72	22.5
1.4	QPSK	3	3	21.52	21.67	21.63	
1.4	QPSK	6	0	21.81	21.85	21.77	22.5
1.4	16QAM	1	0	21.80	21.61	21.79	
1.4	16QAM	1	3	21.75	21.93	21.59	22.5
1.4	16QAM	1	5	21.47	21.55	21.71	
1.4	16QAM	3	0	20.95	20.75	20.58	21.5
1.4	16QAM	3	1	20.72	20.88	20.81	
1.4	16QAM	3	3	20.82	20.53	20.80	21.5
1.4	16QAM	6	0	20.58	20.58	20.75	
1.4	64QAM	1	0	21.74	21.74	21.71	22.5
1.4	64QAM	1	3	21.60	21.79	21.48	
1.4	64QAM	1	5	21.59	21.59	21.43	22.5
1.4	64QAM	3	0	20.66	20.93	20.81	
1.4	64QAM	3	1	20.57	20.59	20.61	21.5
1.4	64QAM	3	3	20.62	20.52	20.78	
1.4	64QAM	6	0	20.78	20.52	20.36	21.5

Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	23.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.81	22.88	22.57	23.5
10	QPSK	1	25	22.72	22.69	22.70	
10	QPSK	1	49	22.73	22.83	22.53	
10	QPSK	25	0	21.80	21.89	21.57	
10	QPSK	25	12	21.62	21.54	21.57	22.5
10	QPSK	25	25	21.75	21.78	21.60	
10	QPSK	50	0	21.65	21.58	21.61	
10	16QAM	1	0	21.63	21.66	21.81	
10	16QAM	1	25	21.52	21.72	21.65	22.5
10	16QAM	1	49	21.61	21.83	21.77	
10	16QAM	25	0	20.68	20.73	20.79	
10	16QAM	25	12	20.72	20.62	20.50	
10	16QAM	25	25	20.68	20.78	20.91	21.5
10	16QAM	50	0	20.61	20.68	20.73	
10	64QAM	1	0	21.77	21.73	21.63	
10	64QAM	1	25	21.59	21.77	21.56	
10	64QAM	1	49	21.71	21.70	21.45	21.5
10	64QAM	25	0	20.84	20.71	20.81	
10	64QAM	25	12	20.70	20.56	20.83	
10	64QAM	25	25	20.52	20.71	20.57	
10	64QAM	50	0	20.47	20.65	20.70	21.5
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	22.72	22.74	22.71	23.5
5	QPSK	1	12	22.84	22.71	22.79	
5	QPSK	1	24	22.53	22.51	22.76	
5	QPSK	12	0	21.64	21.88	21.54	
5	QPSK	12	7	21.59	21.63	21.48	22.5
5	QPSK	12	13	21.64	21.54	21.83	
5	QPSK	25	0	21.80	21.80	21.62	
5	16QAM	1	0	21.86	21.74	21.90	
5	16QAM	1	12	21.77	21.66	21.79	22.5
5	16QAM	1	24	21.49	21.70	21.65	
5	16QAM	12	0	20.58	20.79	20.73	
5	16QAM	12	7	20.54	20.68	20.61	
5	16QAM	12	13	20.64	20.58	20.60	21.5
5	16QAM	25	0	20.58	20.82	20.55	
5	64QAM	1	0	21.50	21.54	21.77	
5	64QAM	1	12	21.52	21.75	21.43	
5	64QAM	1	24	21.48	21.39	21.53	21.5
5	64QAM	12	0	20.84	20.69	20.61	
5	64QAM	12	7	20.77	20.54	20.63	
5	64QAM	12	13	20.58	20.56	20.45	
5	64QAM	25	0	20.56	20.52	20.48	21.5
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.66	22.83	22.76	23.5
3	QPSK	1	8	22.56	22.52	22.63	
3	QPSK	1	14	22.67	22.83	22.56	
3	QPSK	8	0	21.73	21.71	21.51	
3	QPSK	8	4	21.56	21.54	21.62	22.5
3	QPSK	8	7	21.71	21.64	21.77	
3	QPSK	15	0	21.83	21.58	21.60	
3	16QAM	1	0	21.95	21.92	21.88	
3	16QAM	1	8	21.63	21.86	21.89	22.5
3	16QAM	1	14	21.61	21.79	21.74	
3	16QAM	8	0	20.92	20.96	20.82	
3	16QAM	8	4	20.69	20.90	20.86	
3	16QAM	8	7	20.82	20.50	20.90	21.5
3	16QAM	15	0	20.60	20.70	20.81	
3	64QAM	1	0	21.59	21.61	21.48	
3	64QAM	1	8	21.50	21.77	21.50	
3	64QAM	1	14	21.69	21.71	21.68	22.5
3	64QAM	8	0	20.58	20.83	20.71	
3	64QAM	8	4	20.62	20.67	20.63	
3	64QAM	8	7	20.63	20.61	20.72	
3	64QAM	15	0	20.56	20.62	20.73	21.5
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.53	22.85	22.57	23.5
1.4	QPSK	1	3	22.52	22.42	22.52	
1.4	QPSK	1	5	22.84	22.71	22.61	
1.4	QPSK	3	0	21.71	21.66	21.72	
1.4	QPSK	3	1	21.65	21.80	21.57	22.5
1.4	QPSK	3	3	21.57	21.54	21.76	
1.4	QPSK	6	0	21.72	21.56	21.51	
1.4	16QAM	1	0	21.88	21.88	21.63	
1.4	16QAM	1	3	21.81	21.87	21.53	22.5
1.4	16QAM	1	5	21.65	21.80	21.47	
1.4	16QAM	3	0	20.67	20.67	20.60	
1.4	16QAM	3	1	20.92	20.60	20.78	
1.4	16QAM	3	3	20.65	20.55	20.58	21.5
1.4	16QAM	6	0	20.64	20.68	20.79	
1.4	64QAM	1	0	21.51	21.82	21.76	
1.4	64QAM	1	3	21.46	21.74	21.48	
1.4	64QAM	1	5	21.67	21.46	21.49	22.5
1.4	64QAM	3	0	20.77	20.77	20.63	
1.4	64QAM	3	1	20.55	20.78	20.51	
1.4	64QAM	3	3	20.63	20.73	20.74	
1.4	64QAM	6	0	20.58	20.58	20.67	21.5

Band 7 (2600MHz Band) (dBm)							
Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.61	22.69	22.65	23.5
20	QPSK	1	49	22.62	22.65	22.60	
20	QPSK	1	99	22.55	22.53	22.49	
20	QPSK	50	0	21.80	21.89	21.57	
20	QPSK	50	24	21.62	21.54	21.57	22.5
20	QPSK	50	50	21.75	21.78	21.60	
20	QPSK	100	0	21.65	21.58	21.81	
20	16QAM	1	0	21.63	21.66	21.81	
20	16QAM	1	49	21.52	21.72	21.65	22.5
20	16QAM	1	99	21.61	21.83	21.77	
20	16QAM	50	0	20.68	20.73	20.79	
20	16QAM	50	24	20.72	20.62	20.50	
20	16QAM	50	50	20.68	20.78	20.91	21.5
20	16QAM	100	0	20.61	20.68	20.73	
20	64QAM	1	0	21.77	21.73	21.63	
20	64QAM	1	49	21.59	21.77	21.56	
20	64QAM	1	99	21.71	21.70	21.45	22.5
20	64QAM	50	0	20.84	20.71	20.81	
20	64QAM	50	24	20.70	20.56	20.83	
20	64QAM	50	50	20.52	20.71	20.57	
20	64QAM	100	0	20.47	20.65	20.70	21.5
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)
15	QPSK	1	0	22.49	22.65	22.57	23.5
15	QPSK	1	37	22.53	22.48	22.55	
15	QPSK	1	74	22.60	22.56	22.52	
15	QPSK	36	0	21.68	21.50	21.77	
15	QPSK	36	20	21.39	21.39	21.41	22.5
15	QPSK	36	39	21.66	21.76	21.72	
15	QPSK	75	0	21.73	21.65	21.74	
15	16QAM	1	0	21.57	21.80	21.58	
15	16QAM	1	37	21.53	21.77	21.76	22.5
15	16QAM	1	74	21.44	21.68	21.62	
15	16QAM	36	0	20.87	20.90	20.71	
15	16QAM	36	20	20.57	20.64	20.56	
15	16QAM	36	39	20.56	20.62	20.68	21.5
15	16QAM	75	0	20.49	20.62	20.43	
15	64QAM	1	0	21.65	21.67	21.47	
15	64QAM	1	37	21.36	21.70	21.40	
15	64QAM	1	74	21.34	21.25	21.63	22.5
15	64QAM	36	0	20.68	20.47	20.78	
15	64QAM	36	20	20.35	20.38	20.48	
15	64QAM	36	39	20.44	20.39	20.56	
15	64QAM	75	0	20.51	20.65	20.37	21.5
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	22.58	22.61	22.53	23.5
10	QPSK	1	25	22.50	22.31	22.55	
10	QPSK	1	49	22.43	22.58	22.49	
10	QPSK	25	0	21.55	21.77	21.69	
10	QPSK	25	12	21.75	21.72	21.56	22.5
10	QPSK	25	25	21.74	21.75	21.67	
10	QPSK	50	0	21.65	21.63	21.37	
10	16QAM	1	0	21.63	21.64	21.83	
10	16QAM	1	25	21.54	21.53	21.58	22.5
10	16QAM	1	49	21.51	21.70	21.52	
10	16QAM	25	0	20.65	20.63	20.67	
10	16QAM	25	12	20.80	20.52	20.46	
10	16QAM	25	25	20.73	20.63	20.50	21.5
10	16QAM	50	0	20.46	20.48	20.64	
10	64QAM	1	0	21.59	21.61	21.59	
10	64QAM	1	25	21.28	21.60	21.37	
10	64QAM	1	49	21.51	21.31	21.36	22.5
10	64QAM	1	25	20.77	20.79	20.73	
10	64QAM	25	12	20.40	20.43	20.78	
10	64QAM	25	25	20.25	20.49	20.55	
10	64QAM	50	0	20.58	20.60	20.63	21.5
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	22.58	22.64	22.65	23.5
5	QPSK	1	12	22.46	22.57	22.59	
5	QPSK	1	24	22.63	22.59	22.51	
5	QPSK	12	0	21.83	21.43	21.44	
5	QPSK	12	7	21.52	21.53	21.66	22.5
5	QPSK	12	13	21.46	21.62	21.64	
5	QPSK	25	0	21.50	21.51	21.74	
5	16QAM	1	0	21.54	21.73	21.68	
5	16QAM	1	12	21.79	21.58	21.79	22.5
5	16QAM	1	24	21.57	21.54	21.43	
5	16QAM	12	0	20.77	20.73	20.67	
5	16QAM	12	7	20.49	20.63	20.53	
5	16QAM	12	13	20.66	20.42	20.78	21.5
5	16QAM	25	0	20.50	20.62	20.46	
5	64QAM	1	0	21.68	21.73	21.68	
5	64QAM	1	12	21.62	21.55	21.59	
5	64QAM	1	24	21.43	21.38	21.64	22.5
5	64QAM	12	0	20.57	20.51	20.50	
5	64QAM	12	7	20.64	20.64	20.45	
5	64QAM	12	13	20.41	20.33	20.59	
5	64QAM	25	0	20.67	20.52	20.40	21.5
Channel				20750	21100	21400	
Frequency (MHz)				2500	2535	2565	Tune-up limit (dBm)

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	23.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.46	22.73	22.55	
10	QPSK	1	25	22.56	22.69	22.58	22.5
10	QPSK	1	49	22.51	22.46	22.65	
10	QPSK	25	0	21.56	21.70	21.58	
10	QPSK	25	12	21.55	21.70	21.38	
10	QPSK	25	25	21.55	21.51	21.50	
10	QPSK	50	0	21.43	21.53	21.46	22.5
10	16QAM	1	0	21.61	21.77	21.54	
10	16QAM	1	25	21.48	21.46	21.82	
10	16QAM	1	49	21.41	21.41	21.34	21.5
10	16QAM	25	0	20.73	20.92	20.62	
10	16QAM	25	12	20.46	20.84	20.77	
10	16QAM	25	25	20.63	20.45	20.66	
10	16QAM	50	0	20.74	20.80	20.57	
10	64QAM	1	0	21.61	21.48	21.47	22.5
10	64QAM	1	25	21.45	21.66	21.56	
10	64QAM	1	49	21.46	21.56	21.40	
10	64QAM	25	0	20.51	20.53	20.42	21.5
10	64QAM	25	12	20.34	20.50	20.49	
10	64QAM	25	25	20.58	20.36	20.39	
10	64QAM	50	0	20.65	20.38	20.64	
Channel				23035	23095	23155	23.5
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.56	22.59	22.52	
5	QPSK	1	12	22.55	22.51	22.57	22.5
5	QPSK	1	24	22.50	22.56	22.47	
5	QPSK	12	0	21.51	21.71	21.46	
5	QPSK	12	7	21.65	21.59	21.43	
5	QPSK	12	13	21.70	21.47	21.74	
5	QPSK	25	0	21.71	21.75	21.49	22.5
5	16QAM	1	0	21.60	21.70	21.86	
5	16QAM	1	12	21.66	21.65	21.68	
5	16QAM	1	24	21.57	21.60	21.67	
5	16QAM	12	0	20.61	20.62	20.73	
5	16QAM	12	7	20.55	20.60	20.64	21.5
5	16QAM	12	13	20.36	20.42	20.58	
5	16QAM	25	0	20.57	20.43	20.46	
5	64QAM	1	0	21.62	21.51	21.77	
5	64QAM	1	12	21.49	21.35	21.42	
5	64QAM	1	24	21.35	21.45	21.56	21.5
5	64QAM	12	0	20.67	20.72	20.49	
5	64QAM	12	7	20.58	20.66	20.66	
5	64QAM	12	13	20.46	20.30	20.60	
5	64QAM	25	0	20.60	20.65	20.39	
Channel				23025	23095	23165	23.5
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.57	22.61	22.47	
3	QPSK	1	8	22.51	22.36	22.58	22.5
3	QPSK	1	14	22.53	22.52	22.53	
3	QPSK	8	0	21.79	21.59	21.56	
3	QPSK	8	4	21.49	21.42	21.38	
3	QPSK	8	7	21.47	21.68	21.77	
3	QPSK	15	0	21.48	21.59	21.57	22.5
3	16QAM	1	0	21.48	21.82	21.75	
3	16QAM	1	8	21.43	21.84	21.62	
3	16QAM	1	14	21.68	21.58	21.58	
3	16QAM	8	0	20.82	20.87	20.53	
3	16QAM	8	4	20.42	20.59	20.48	21.5
3	16QAM	8	7	20.68	20.59	20.53	
3	16QAM	15	0	20.78	20.78	20.63	
3	64QAM	1	0	21.73	21.71	21.53	
3	64QAM	1	8	21.51	21.58	21.49	
3	64QAM	1	14	21.51	21.44	21.36	21.5
3	64QAM	8	0	20.75	20.83	20.67	
3	64QAM	8	4	20.67	20.55	20.62	
3	64QAM	8	7	20.45	20.52	20.65	
3	64QAM	15	0	20.56	20.68	20.42	
Channel				23017	23095	23173	23.5
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.54	22.57	22.54	
1.4	QPSK	1	3	22.51	22.55	22.46	22.5
1.4	QPSK	1	5	22.54	22.49	22.51	
1.4	QPSK	3	0	21.51	21.58	21.69	
1.4	QPSK	3	1	21.45	21.78	21.30	
1.4	QPSK	3	3	21.69	21.48	21.52	
1.4	QPSK	6	0	21.46	21.63	21.50	22.5
1.4	16QAM	1	0	21.64	21.53	21.82	
1.4	16QAM	1	3	21.46	21.78	21.59	
1.4	16QAM	1	5	21.40	21.64	21.68	
1.4	16QAM	3	0	20.81	20.85	20.46	
1.4	16QAM	3	1	20.68	20.83	20.66	21.5
1.4	16QAM	3	3	20.67	20.61	20.80	
1.4	16QAM	6	0	20.74	20.62	20.52	
1.4	64QAM	1	0	21.37	21.73	21.53	
1.4	64QAM	1	3	21.56	21.68	21.62	
1.4	64QAM	1	5	21.57	21.43	21.27	22.5
1.4	64QAM	3	0	20.54	20.52	20.63	
1.4	64QAM	3	1	20.51	20.51	20.53	
1.4	64QAM	3	3	20.58	20.52	20.63	
1.4	64QAM	6	0	20.64	20.35	20.57	

Band 13(700MHz Band) (dBm)							
Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0	22.72			23.5
10	QPSK	1	25	22.57			
10	QPSK	1	49	22.53			
10	QPSK	25	0	21.55			
10	QPSK	25	12	21.53			22.5
10	QPSK	25	25	21.75			
10	QPSK	50	0	21.55			
10	16QAM	1	0	21.51			
10	16QAM	1	25	21.62			22.5
10	16QAM	1	49	21.74			
10	16QAM	25	0	20.70			
10	16QAM	25	12	20.69			
10	16QAM	25	25	20.49			21.5
10	16QAM	50	0	20.64			
10	64QAM	1	0	21.55			
10	64QAM	1	25	21.70			
10	64QAM	1	49	21.40			22.5
10	64QAM	25	0	20.83			
10	64QAM	25	12	20.40			
10	64QAM	25	25	20.57			
10	64QAM	50	0	20.36			21.5
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.59	22.69	22.66	23.5
5	QPSK	1	12	22.47	22.66	22.58	
5	QPSK	1	24	22.51	22.62	22.55	
5	QPSK	12	0	21.72	21.66	21.49	
5	QPSK	12	7	21.74	21.59	21.38	22.5
5	QPSK	12	13	21.51	21.84	21.50	
5	QPSK	25	0	21.76	21.43	21.67	
5	16QAM	1	0	21.49	21.59	21.80	
5	16QAM	1	12	21.71	21.64	21.58	22.5
5	16QAM	1	24	21.40	21.63	21.40	
5	16QAM	12	0	20.49	20.70	20.51	
5	16QAM	12	7	20.61	20.70	20.53	
5	16QAM	12	13	20.59	20.46	20.78	21.5
5	16QAM	25	0	20.51	20.42	20.42	
5	64QAM	1	0	21.47	21.60	21.74	
5	64QAM	1	12	21.38	21.66	21.44	
5	64QAM	1	24	21.65	21.31	21.31	22.5
5	64QAM	12	0	20.52	20.59	20.78	
5	64QAM	12	7	20.30	20.66	20.55	
5	64QAM	12	13	20.37	20.52	20.36	
5	64QAM	25	0	20.47	20.52	20.46	21.5

Band 14 (700MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			Tune-up limit (dBm)
Frequency (MHz)				793			
10	QPSK	1	0		22.84		23.5
10	QPSK	1	25		22.59		
10	QPSK	1	49		22.52		
10	QPSK	25	0		21.81		22.5
10	QPSK	25	12		21.69		
10	QPSK	25	25		21.84		
10	QPSK	50	0		21.38		22.5
10	16QAM	1	0		21.85		
10	16QAM	1	25		21.51		
10	16QAM	1	49		21.56		21.5
10	16QAM	25	0		20.56		
10	16QAM	25	12		20.68		
10	16QAM	25	25		20.44		22.5
10	16QAM	50	0		20.74		
10	64QAM	1	0		21.45		
10	64QAM	1	25		21.52		21.5
10	64QAM	1	49		21.38		
10	64QAM	25	0		20.48		
10	64QAM	25	12		20.44		21.5
10	64QAM	25	25		20.61		
10	64QAM	50	0		20.30		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	22.77	22.80	22.55	23.5
5	QPSK	1	12	22.74	22.57	22.65	
5	QPSK	1	24	22.53	22.74	22.58	
5	QPSK	12	0	21.82	21.74	21.78	22.5
5	QPSK	12	7	21.42	21.66	21.50	
5	QPSK	12	13	21.48	21.55	21.42	
5	QPSK	25	0	21.75	21.67	21.37	22.5
5	16QAM	1	0	21.67	21.56	21.55	
5	16QAM	1	12	21.79	21.52	21.71	
5	16QAM	1	24	21.49	21.60	21.58	21.5
5	16QAM	12	0	20.76	20.74	20.64	
5	16QAM	12	7	20.66	20.72	20.40	
5	16QAM	12	13	20.39	20.48	20.71	22.5
5	16QAM	25	0	20.61	20.53	20.74	
5	64QAM	1	0	21.36	21.64	21.48	
5	64QAM	1	12	21.67	21.70	21.68	21.5
5	64QAM	1	24	21.41	21.58	21.65	
5	64QAM	12	0	20.77	20.55	20.78	
5	64QAM	12	7	20.63	20.67	20.79	21.5
5	64QAM	12	13	20.43	20.47	20.31	
5	64QAM	25	0	20.37	20.66	20.36	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.69	22.70	22.65	23.5
10	QPSK	1	25	22.63	22.55	22.68	
10	QPSK	1	49	22.64	22.68	22.63	
10	QPSK	25	0	21.77	21.81	21.69	22.5
10	QPSK	25	12	21.56	21.70	21.48	
10	QPSK	25	25	21.69	21.84	21.80	
10	QPSK	50	0	21.53	21.65	21.46	22.5
10	16QAM	1	0	21.75	21.65	21.77	
10	16QAM	1	25	21.67	21.60	21.79	
10	16QAM	1	49	21.48	21.41	21.70	21.5
10	16QAM	25	0	20.77	20.90	20.56	
10	16QAM	25	12	20.65	20.84	20.53	
10	16QAM	25	25	20.64	20.58	20.82	22.5
10	16QAM	50	0	20.74	20.46	20.55	
10	64QAM	1	0	21.54	21.57	21.66	
10	64QAM	1	25	21.49	21.49	21.37	21.5
10	64QAM	1	49	21.26	21.41	21.41	
10	64QAM	25	0	20.78	20.65	20.49	
10	64QAM	25	12	20.45	20.47	20.50	21.5
10	64QAM	25	25	20.38	20.50	20.66	
10	64QAM	50	0	20.36	20.42	20.34	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.42	22.68	22.61	23.5
5	QPSK	1	12	22.53	22.43	22.63	
5	QPSK	1	24	22.38	22.51	22.60	
5	QPSK	12	0	21.66	21.53	21.75	22.5
5	QPSK	12	7	21.58	21.57	21.34	
5	QPSK	12	13	21.56	21.44	21.77	
5	QPSK	25	0	21.40	21.39	21.53	22.5
5	16QAM	1	0	21.70	21.63	21.77	
5	16QAM	1	12	21.59	21.82	21.63	
5	16QAM	1	24	21.60	21.77	21.47	21.5
5	16QAM	12	0	20.60	20.86	20.82	
5	16QAM	12	7	20.68	20.52	20.63	
5	16QAM	12	13	20.54	20.66	20.67	22.5
5	16QAM	25	0	20.70	20.62	20.52	
5	64QAM	1	0	21.57	21.36	21.39	
5	64QAM	1	12	21.50	21.63	21.65	21.5
5	64QAM	1	24	21.31	21.38	21.46	
5	64QAM	12	0	20.47	20.75	20.44	
5	64QAM	12	7	20.35	20.69	20.58	21.5
5	64QAM	12	13	20.54	20.52	20.34	
5	64QAM	25	0	20.49	20.36	20.30	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	23.5
Frequency (MHz)				1800	1882.5	1905	
20	QPSK	1	0	22.86	22.93	22.88	
20	QPSK	1	49	22.81	22.47	22.81	22.5
20	QPSK	1	99	22.66	22.61	22.65	
20	QPSK	50	0	21.72	21.93	21.63	
20	QPSK	50	24	21.54	21.65	21.54	22.5
20	QPSK	50	50	21.88	21.77	21.84	
20	QPSK	100	0	21.55	21.70	21.59	
20	16QAM	1	0	21.84	21.98	21.96	22.5
20	16QAM	1	49	21.84	21.75	21.76	
20	16QAM	1	99	21.73	21.69	21.73	
20	16QAM	50	0	20.77	20.71	20.72	21.5
20	16QAM	50	24	20.57	20.89	20.73	
20	16QAM	50	50	20.75	20.87	20.89	
20	16QAM	100	0	20.87	20.65	20.74	22.5
20	64QAM	1	0	21.81	21.57	21.65	
20	64QAM	1	49	21.50	21.50	21.69	
20	64QAM	1	99	21.41	21.43	21.38	21.5
20	64QAM	50	0	20.81	20.85	20.63	
20	64QAM	50	24	20.67	20.51	20.87	
20	64QAM	50	50	20.45	20.41	20.68	21.5
20	64QAM	100	0	20.56	20.41	20.42	
Channel				26115	26365	26615	23.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	22.60	22.82	22.79	
15	QPSK	1	37	22.59	22.54	22.54	22.5
15	QPSK	1	74	22.72	22.82	22.80	
15	QPSK	36	0	21.61	21.66	21.68	
15	QPSK	36	20	21.59	21.72	21.53	22.5
15	QPSK	36	39	21.64	21.68	21.73	
15	QPSK	75	0	21.56	21.63	21.47	
15	16QAM	1	0	21.67	21.81	21.95	22.5
15	16QAM	1	37	21.83	21.70	21.88	
15	16QAM	1	74	21.46	21.67	21.55	
15	16QAM	36	0	20.95	20.77	20.84	21.5
15	16QAM	36	20	20.71	20.89	20.52	
15	16QAM	36	39	20.51	20.74	20.77	
15	16QAM	75	0	20.61	20.79	20.48	22.5
15	64QAM	1	0	21.74	21.77	21.52	
15	64QAM	1	37	21.60	21.52	21.57	
15	64QAM	1	74	21.47	21.51	21.67	21.5
15	64QAM	36	0	20.70	20.77	20.53	
15	64QAM	36	20	20.68	20.69	20.69	
15	64QAM	36	39	20.62	20.55	20.50	21.5
15	64QAM	75	0	20.55	20.53	20.76	
Channel				26090	26365	26640	23.5
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	22.77	22.83	22.65	
10	QPSK	1	25	22.60	22.65	22.69	22.5
10	QPSK	1	49	22.74	22.52	22.82	
10	QPSK	25	0	21.94	21.82	21.77	
10	QPSK	25	12	21.58	21.57	21.74	22.5
10	QPSK	25	25	21.85	21.79	21.75	
10	QPSK	50	0	21.60	21.79	21.79	
10	16QAM	1	0	21.70	21.70	21.93	22.5
10	16QAM	1	25	21.80	21.61	21.83	
10	16QAM	1	49	21.66	21.52	21.74	
10	16QAM	25	0	20.97	20.83	20.68	21.5
10	16QAM	25	12	20.83	20.80	20.52	
10	16QAM	25	25	20.52	20.79	20.80	
10	16QAM	50	0	20.84	20.57	20.71	22.5
10	64QAM	1	0	21.50	21.72	21.75	
10	64QAM	1	25	21.64	21.50	21.42	
10	64QAM	1	49	21.45	21.33	21.56	21.5
10	64QAM	25	0	20.61	20.86	20.65	
10	64QAM	25	12	20.50	20.53	20.60	
10	64QAM	25	25	20.48	20.56	20.70	21.5
10	64QAM	50	0	20.85	20.46	20.70	
Channel				26065	26365	26665	23.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	22.69	22.85	22.83	
5	QPSK	1	12	22.77	22.49	22.52	22.5
5	QPSK	1	24	22.55	22.56	22.83	
5	QPSK	12	0	21.95	21.71	21.80	
5	QPSK	12	7	21.58	21.54	21.52	22.5
5	QPSK	12	13	21.57	21.84	21.87	
5	QPSK	25	0	21.48	21.80	21.62	
5	16QAM	1	0	21.64	21.96	21.75	22.5
5	16QAM	1	12	21.57	21.81	21.71	
5	16QAM	1	24	21.78	21.88	21.65	
5	16QAM	12	0	20.58	20.82	20.87	21.5
5	16QAM	12	7	20.86	20.70	20.56	
5	16QAM	12	13	20.72	20.51	20.71	
5	16QAM	25	0	20.54	20.77	20.85	22.5
5	64QAM	1	0	21.48	21.59	21.61	
5	64QAM	1	12	21.40	21.75	21.58	
5	64QAM	1	24	21.64	21.45	21.58	21.5
5	64QAM	12	0	20.64	20.58	20.54	
5	64QAM	12	7	20.77	20.58	20.90	
5	64QAM	12	13	20.69	20.51	20.74	21.5
5	64QAM	25	0	20.54	20.51	20.56	
Channel				26055	26365	26675	23.5
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.77	22.90	22.79	
3	QPSK	1	8	22.61	22.57	22.67	22.5
3	QPSK	1	14	22.71	22.70	22.77	
3	QPSK	8	0	21.70	21.79	21.54	
3	QPSK	8	4	21.67	21.49	21.54	22.5

Band 26 for FCC (dBm) (only on channel required)								
BW [MHz]	Modulation	RB Size		RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					26765	26865	26965	
Frequency (MHz)					821.5	831.5	841.5	
15	QPSK	1		0	22.58	22.86	22.73	23.5
15	QPSK	1		37	22.60	22.53	22.55	
15	QPSK	1		74	22.67	22.52	22.54	
15	QPSK	36		0	21.62	21.78	21.90	
15	QPSK	36		20	21.83	21.69	21.77	22.5
15	QPSK	36		39	21.78	21.72	21.87	
15	QPSK	75		0	21.57	21.77	21.49	
15	16QAM	1		0	21.85	21.62	21.72	
15	16QAM	1		37	21.53	21.86	21.71	22.5
15	16QAM	1		74	21.49	21.82	21.80	
15	16QAM	36		0	20.78	20.99	20.62	
15	16QAM	36		20	20.77	20.83	20.73	
15	16QAM	36		39	20.74	20.64	20.82	21.5
15	16QAM	75		0	20.54	20.75	20.61	
15	64QAM	1		0	21.65	21.53	21.80	
15	64QAM	1		37	21.40	21.62	21.56	
15	64QAM	1		74	21.76	21.57	21.47	22.5
15	64QAM	36		0	20.78	20.81	20.82	
15	64QAM	36		20	20.40	20.82	20.79	
15	64QAM	36		39	20.46	20.69	20.72	
15	64QAM	75		0	20.73	20.55	20.59	21.5
Channel					26740	26865	26990	
Frequency (MHz)					819	831.5	844	
10	QPSK	1		0	22.68	22.74	22.69	
10	QPSK	1		25	22.62	22.49	22.62	
10	QPSK	1		49	22.66	22.65	22.67	
10	QPSK	25		0	21.82	21.64	21.70	
10	QPSK	25		12	21.69	21.65	21.62	22.5
10	QPSK	25		25	21.79	21.82	21.84	
10	QPSK	50		0	21.71	21.58	21.50	
10	16QAM	1		0	21.62	21.79	21.95	
10	16QAM	1		25	21.63	21.71	21.87	22.5
10	16QAM	1		49	21.61	21.54	21.54	
10	16QAM	25		0	20.67	20.90	20.65	
10	16QAM	25		12	20.88	20.79	20.85	
10	16QAM	25		25	20.45	20.58	20.61	21.5
10	16QAM	50		0	20.76	20.78	20.52	
10	64QAM	1		0	21.70	21.52	21.61	
10	64QAM	1		25	21.69	21.63	21.70	
10	64QAM	1		49	21.65	21.57	21.49	22.5
10	64QAM	25		0	20.86	20.88	20.66	
10	64QAM	25		12	20.65	20.79	20.82	
10	64QAM	25		25	20.65	20.40	20.78	
10	64QAM	50		0	20.83	20.44	20.67	21.5
Channel					26715	26865	27015	
Frequency (MHz)					816.5	831.5	846.5	
5	QPSK	1		0	22.61	22.73	22.65	
5	QPSK	1		12	22.64	22.69	22.55	
5	QPSK	1		24	22.65	22.63	22.69	
5	QPSK	12		0	21.95	21.75	21.75	
5	QPSK	12		7	21.81	21.75	21.61	22.5
5	QPSK	12		13	21.61	21.90	21.52	
5	QPSK	25		0	21.68	21.72	21.85	
5	16QAM	1		0	21.69	21.84	21.83	
5	16QAM	1		12	21.86	21.80	21.55	22.5
5	16QAM	1		24	21.63	21.53	21.43	
5	16QAM	12		0	20.85	20.76	20.76	
5	16QAM	12		7	20.75	20.84	20.65	
5	16QAM	12		13	20.59	20.50	20.80	21.5
5	16QAM	25		0	20.58	20.70	20.53	
5	64QAM	1		0	21.82	21.66	21.85	
5	64QAM	1		12	21.77	21.68	21.65	
5	64QAM	1		24	21.72	21.66	21.60	22.5
5	64QAM	12		0	20.71	20.77	20.62	
5	64QAM	12		7	20.47	20.78	20.53	
5	64QAM	12		13	20.65	20.42	20.72	
5	64QAM	25		0	20.80	20.51	20.46	21.5
Channel					26705	26865	27025	
Frequency (MHz)					815.5	831.5	847.5	
3	QPSK	1		0	22.50	22.69	22.64	
3	QPSK	1		8	22.64	22.54	22.62	
3	QPSK	1		14	22.65	22.58	22.51	
3	QPSK	8		0	21.79	21.65	21.70	
3	QPSK	8		4	21.63	21.77	21.69	22.5
3	QPSK	8		7	21.67	21.88	21.62	
3	QPSK	15		0	21.63	21.80	21.53	
3	16QAM	1		0	21.75	21.99	21.92	
3	16QAM	1		8	21.62	21.80	21.54	22.5
3	16QAM	1		14	21.61	21.80	21.75	
3	16QAM	8		0	20.77	20.98	20.79	
3	16QAM	8		4	20.85	20.95	20.86	
3	16QAM	8		7	20.71	20.50	20.87	21.5
3	16QAM	15		0	20.85	20.81	20.70	
3	64QAM	1		0	21.74	21.72	21.64	
3	64QAM	1		8	21.43	21.44	21.59	
3	64QAM	1		14	21.57	21.46	21.59	22.5
3	64QAM	8		0	20.84	20.84	20.56	
3	64QAM	8		4	20.44	20.73	20.51	
3	64QAM	8		7	20.34	20.40	20.47	
3	64QAM	15		0	20.47	20.64	20.67	21.5
Channel					26697	26865	27033	
Frequency (MHz)					814.7	831.5	848.3	
1.4	QPSK	1		0	22.63	22.70	22.68	
1.4	QPSK	1		3	22.66	22.46	22.53	
1.4	QPSK	1		5	22.57	22.67	22.68	
1.4	QPSK	3		0	21.89	21.80	21.63	
1.4	QPSK	3		1	21.69	21.74	21.52	22.5

3	QPSK	8	7	21.86	21.75	21.75	22.5
3	QPSK	15	0	21.70	21.66	21.51	
3	16QAM	1	0	21.60	21.91	21.58	22.5
3	16QAM	1	8	21.73	21.56	21.88	
3	16QAM	1	14	21.74	21.73	21.59	21.5
3	16QAM	8	0	20.81	20.73	20.70	
3	16QAM	8	4	20.58	20.89	20.72	21.5
3	16QAM	8	7	20.64	20.70	20.69	
3	16QAM	15	0	20.67	20.80	20.52	22.5
3	64QAM	1	0	21.81	21.46	21.75	
3	64QAM	1	8	21.82	21.42	21.79	21.5
3	64QAM	1	14	21.56	21.62	21.70	
3	64QAM	8	0	20.67	20.68	20.69	21.5
3	64QAM	8	4	20.67	20.75	20.53	
3	64QAM	8	7	20.64	20.39	20.56	21.5
3	64QAM	15	0	20.81	20.52	20.40	
Channel				28047	28365	28683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.77	22.87	22.73	23.5
1.4	QPSK	1	3	22.83	22.79	22.72	
1.4	QPSK	1	5	22.74	22.82	22.60	22.5
1.4	QPSK	3	0	21.77	21.93	21.91	
1.4	QPSK	3	1	21.85	21.68	21.56	21.5
1.4	QPSK	3	3	21.56	21.58	21.57	
1.4	QPSK	6	0	21.77	21.76	21.52	20.5
1.4	16QAM	1	0	21.90	21.98	21.80	
1.4	16QAM	1	3	21.49	21.78	21.63	22.5
1.4	16QAM	1	5	21.79	21.60	21.68	
1.4	16QAM	3	0	20.94	20.75	20.64	21.5
1.4	16QAM	3	1	20.68	20.61	20.77	
1.4	16QAM	3	3	20.53	20.60	20.85	20.5
1.4	16QAM	6	0	20.82	20.92	20.48	
1.4	64QAM	1	0	21.56	21.74	21.50	22.5
1.4	64QAM	1	3	21.38	21.50	21.71	
1.4	64QAM	1	5	21.37	21.63	21.60	21.5
1.4	64QAM	3	0	20.82	20.76	20.87	
1.4	64QAM	3	1	20.78	20.71	20.60	21.5
1.4	64QAM	3	3	20.59	20.51	20.56	
1.4	64QAM	6	0	20.49	20.56	20.39	21.5

1.4	QPSK	3	3	21.61	21.80	21.85	22.5
1.4	QPSK	6	0	21.73	21.54	21.66	
1.4	16QAM	1	0	21.69	21.92	21.63	22.5
1.4	16QAM	1	3	21.75	21.66	21.76	
1.4	16QAM	1	5	21.49	21.86	21.46	21.5
1.4	16QAM	3	0	20.87	20.99	20.81	
1.4	16QAM	3	1	20.89	20.62	20.78	21.5
1.4	16QAM	3	3	20.72	20.76	20.79	
1.4	16QAM	6	0	20.57	20.82	20.62	22.5
1.4	64QAM	1	0	21.68	21.58	21.87	
1.4	64QAM	1	3	21.71	21.75	21.69	21.5
1.4	64QAM	1	5	21.57	21.54	21.73	
1.4	64QAM	3	0	20.58	20.73	20.87	21.5
1.4	64QAM	3	1	20.78	20.66	20.84	
1.4	64QAM	3	3	20.63	20.44	20.51	21.5
1.4	64QAM	6	0	20.74	20.45	20.67	

Band 30 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			Tune-up limit (dBm)
Frequency (MHz)				2310			
10	QPSK	1	0		19.82		20.5
10	QPSK	1	25		19.72		
10	QPSK	1	49		19.65		
10	QPSK	25	0		18.98		19.5
10	QPSK	25	12		18.93		
10	QPSK	25	25		18.87		
10	QPSK	50	0		18.90		19.5
10	16QAM	1	0		18.99		
10	16QAM	1	25		18.92		
10	16QAM	1	49		18.85		18.5
10	16QAM	25	0		18.12		
10	16QAM	25	12		18.03		
10	16QAM	25	25		18.05		19.5
10	16QAM	50	0		18.01		
10	64QAM	1	0		18.93		
10	64QAM	1	25		18.83		18.5
10	64QAM	1	49		18.84		
10	64QAM	25	0		18.08		
10	64QAM	25	12		17.99		18.5
10	64QAM	25	25		18.02		
10	64QAM	50	0		17.95		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.60	19.75	19.72	20.5
5	QPSK	1	12	19.74	19.68	19.68	
5	QPSK	1	24	19.65	19.71	19.66	
5	QPSK	12	0	18.95	18.77	18.72	19.5
5	QPSK	12	7	18.48	18.88	18.70	
5	QPSK	12	13	18.52	18.76	18.68	
5	QPSK	25	0	18.87	18.65	18.79	19.5
5	16QAM	1	0	18.71	18.75	18.81	
5	16QAM	1	12	18.77	18.61	18.57	
5	16QAM	1	24	18.72	18.59	18.78	18.5
5	16QAM	12	0	17.59	17.75	17.77	
5	16QAM	12	7	17.68	17.57	17.69	
5	16QAM	12	13	17.67	17.71	17.56	19.5
5	16QAM	25	0	17.54	17.57	17.61	
5	64QAM	1	0	18.61	18.75	18.77	
5	64QAM	1	12	18.68	18.59	18.59	18.5
5	64QAM	1	24	18.53	18.54	18.67	
5	64QAM	12	0	17.58	17.76	17.77	
5	64QAM	12	7	17.49	17.73	17.88	18.5
5	64QAM	12	13	17.53	17.55	17.78	
5	64QAM	25	0	17.45	17.64	17.70	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.68	22.82	22.80	23.5
20	QPSK	1	49	22.64	22.74	22.77	
20	QPSK	1	99	22.50	22.57	22.63	
20	QPSK	50	0	21.67	21.68	21.56	22.5
20	QPSK	50	24	21.64	21.62	21.55	
20	QPSK	50	50	21.76	21.58	21.89	
20	QPSK	100	0	21.82	21.81	21.47	22.5
20	16QAM	1	0	21.72	21.82	21.63	
20	16QAM	1	49	21.71	21.88	21.86	
20	16QAM	1	99	21.48	21.71	21.55	21.5
20	16QAM	50	0	20.65	20.67	20.86	
20	16QAM	50	24	20.69	20.75	20.79	
20	16QAM	50	50	20.49	20.59	20.58	22.5
20	16QAM	100	0	20.89	20.91	20.51	
20	64QAM	1	0	21.69	21.77	21.52	
20	64QAM	1	49	21.46	21.54	21.51	21.5
20	64QAM	1	99	21.45	21.72	21.52	
20	64QAM	50	0	20.50	20.61	20.66	
20	64QAM	50	24	20.74	20.60	20.58	21.5
20	64QAM	50	50	20.63	20.35	20.69	
20	64QAM	100	0	20.70	20.44	20.47	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.62	22.74	22.72	23.5
15	QPSK	1	37	22.63	22.58	22.80	
15	QPSK	1	74	22.60	22.49	22.43	
15	QPSK	36	0	21.84	21.84	21.77	22.5
15	QPSK	36	20	21.47	21.57	21.54	
15	QPSK	36	39	21.66	21.72	21.83	
15	QPSK	75	0	21.53	21.55	21.52	22.5
15	16QAM	1	0	21.59	21.97	21.83	
15	16QAM	1	37	21.61	21.57	21.82	
15	16QAM	1	74	21.55	21.62	21.61	21.5
15	16QAM	36	0	20.82	20.86	20.69	
15	16QAM	36	20	20.52	20.77	20.57	
15	16QAM	36	39	20.67	20.79	20.73	22.5
15	16QAM	75	0	20.79	20.91	20.61	
15	64QAM	1	0	21.77	21.82	21.48	
15	64QAM	1	37	21.58	21.54	21.41	21.5
15	64QAM	1	74	21.46	21.59	21.59	
15	64QAM	36	0	20.74	20.56	20.68	
15	64QAM	36	20	20.40	20.74	20.89	21.5
15	64QAM	36	39	20.51	20.49	20.41	
15	64QAM	75	0	20.56	20.79	20.59	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.70	22.78	22.56	23.5
10	QPSK	1	25	22.77	22.57	22.76	
10	QPSK	1	49	22.78	22.69	22.69	
10	QPSK	25	0	21.66	21.87	21.87	22.5
10	QPSK	25	12	21.46	21.70	21.53	
10	QPSK	25	25	21.65	21.93	21.61	
10	QPSK	50	0	21.66	21.70	21.86	22.5
10	16QAM	1	0	21.82	21.79	21.68	
10	16QAM	1	25	21.88	21.74	21.90	
10	16QAM	1	49	21.49	21.79	21.42	21.5
10	16QAM	25	0	20.72	20.90	20.85	
10	16QAM	25	12	20.60	20.67	20.73	
10	16QAM	25	25	20.50	20.87	20.90	22.5
10	16QAM	50	0	20.50	20.57	20.47	
10	64QAM	1	0	21.68	21.64	21.60	
10	64QAM	1	25	21.49	21.71	21.76	21.5
10	64QAM	1	49	21.54	21.67	21.65	
10	64QAM	25	0	20.75	20.85	20.66	
10	64QAM	25	12	20.73	20.67	20.80	21.5
10	64QAM	25	25	20.63	20.53	20.58	
10	64QAM	50	0	20.63	20.68	20.76	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.58	22.76	22.60	23.5
5	QPSK	1	12	22.69	22.47	22.75	
5	QPSK	1	24	22.64	22.66	22.56	
5	QPSK	12	0	21.79	21.84	21.62	22.5
5	QPSK	12	7	21.60	21.87	21.57	
5	QPSK	12	13	21.58	21.94	21.67	
5	QPSK	25	0	21.68	21.66	21.63	22.5
5	16QAM	1	0	21.63	21.91	21.70	
5	16QAM	1	12	21.64	21.85	21.93	
5	16QAM	1	24	21.62	21.87	21.65	21.5
5	16QAM	12	0	20.63	20.70	20.71	
5	16QAM	12	7	20.82	20.77	20.81	
5	16QAM	12	13	20.75	20.77	20.76	22.5
5	16QAM	25	0	20.62	20.54	20.47	
5	64QAM	1	0	21.64	21.81	21.73	
5	64QAM	1	12	21.62	21.42	21.48	21.5
5	64QAM	1	24	21.50	21.42	21.66	
5	64QAM	12	0	20.89	20.60	20.65	
5	64QAM	12	7	20.79	20.52	20.77	21.5
5	64QAM	12	13	20.54	20.53	20.46	
5	64QAM	25	0	20.56	20.54	20.64	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.54	22.72	22.61	23.5
3	QPSK	1	8	22.71	22.56	22.52	
3	QPSK	1	14	22.47	22.66	22.69	
3	QPSK	8	0	21.88	21.55	21.63	22.5
3	QPSK	8	4	21.47	21.64	21.41	
3	QPSK	8	7	21.72	21.73	21.73	

3	QPSK	15	0	21.55	21.49	21.57	22.5
3	16QAM	1	0	21.93	21.88	21.78	
3	16QAM	1	8	21.63	21.69	21.76	
3	16QAM	1	14	21.83	21.66	21.56	21.5
3	16QAM	8	0	20.75	20.88	20.57	
3	16QAM	8	4	20.89	20.62	20.80	
3	16QAM	8	7	20.56	20.60	20.56	
3	16QAM	15	0	20.56	20.59	20.71	
3	64QAM	1	0	21.66	21.85	21.78	22.5
3	64QAM	1	8	21.74	21.74	21.57	
3	64QAM	1	14	21.66	21.50	21.66	
3	64QAM	8	0	20.54	20.56	20.73	21.5
3	64QAM	8	4	20.77	20.79	20.58	
3	64QAM	8	7	20.37	20.42	20.52	
3	64QAM	8	7	20.37	20.42	20.52	
3	64QAM	15	0	20.60	20.50	20.37	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.76	22.80	22.68	23.5
1.4	QPSK	1	3	22.70	22.59	22.75	
1.4	QPSK	1	5	22.48	22.59	22.61	
1.4	QPSK	3	0	21.70	21.72	21.57	
1.4	QPSK	3	1	21.63	21.85	21.52	
1.4	QPSK	3	3	21.52	21.82	21.64	
1.4	QPSK	6	0	21.80	21.85	21.76	22.5
1.4	16QAM	1	0	21.90	21.92	21.76	22.5
1.4	16QAM	1	3	21.78	21.81	21.69	
1.4	16QAM	1	5	21.55	21.78	21.52	
1.4	16QAM	3	0	20.83	20.70	20.85	
1.4	16QAM	3	1	20.84	20.89	20.72	
1.4	16QAM	3	3	20.79	20.55	20.56	
1.4	16QAM	6	0	20.50	20.71	20.63	21.5
1.4	64QAM	1	0	21.62	21.64	21.77	22.5
1.4	64QAM	1	3	21.45	21.66	21.79	
1.4	64QAM	1	5	21.74	21.37	21.49	
1.4	64QAM	3	0	20.53	20.74	20.88	
1.4	64QAM	3	1	20.64	20.54	20.70	
1.4	64QAM	3	3	20.57	20.60	20.51	
1.4	64QAM	6	0	20.72	20.70	20.46	21.5

Band 71 (dBm)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.57	22.77	22.61	23.5
20	QPSK	1	49	22.59	22.68	22.74	
20	QPSK	1	99	22.72	22.68	22.62	
20	QPSK	50	0	21.65	21.67	21.53	22.5
20	QPSK	50	24	21.67	21.77	21.60	
20	QPSK	50	50	21.87	21.84	21.84	
20	QPSK	100	0	21.54	21.78	21.46	22.5
20	16QAM	1	0	21.58	21.69	21.60	
20	16QAM	1	49	21.88	21.84	21.70	
20	16QAM	1	99	21.46	21.77	21.45	21.5
20	16QAM	50	0	20.68	21.05	20.73	
20	16QAM	50	24	20.77	20.91	20.58	
20	16QAM	50	50	20.81	20.61	20.62	22.5
20	16QAM	100	0	20.63	20.76	20.47	
20	64QAM	1	0	21.75	21.79	21.80	
20	64QAM	1	49	21.44	21.50	21.55	21.5
20	64QAM	1	99	21.39	21.69	21.68	
20	64QAM	50	0	20.56	20.57	20.49	
20	64QAM	50	24	20.64	20.43	20.76	21.5
20	64QAM	50	50	20.39	20.73	20.60	
20	64QAM	100	0	20.75	20.49	20.66	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.68	22.75	22.71	23.5
15	QPSK	1	37	22.72	22.47	22.63	
15	QPSK	1	74	22.60	22.58	22.53	
15	QPSK	36	0	21.74	21.93	21.88	22.5
15	QPSK	36	20	21.73	21.73	21.43	
15	QPSK	36	39	21.65	21.88	21.85	
15	QPSK	75	0	21.60	21.69	21.78	22.5
15	16QAM	1	0	21.57	21.61	21.57	
15	16QAM	1	37	21.55	21.62	21.55	
15	16QAM	1	74	21.68	21.75	21.47	21.5
15	16QAM	36	0	20.96	20.65	20.63	
15	16QAM	36	20	20.86	20.89	20.48	
15	16QAM	36	39	20.48	20.58	20.65	22.5
15	16QAM	75	0	20.54	20.85	20.69	
15	64QAM	1	0	21.82	21.69	21.66	
15	64QAM	1	37	21.43	21.49	21.58	21.5
15	64QAM	1	74	21.51	21.59	21.46	
15	64QAM	36	0	20.86	20.79	20.66	
15	64QAM	36	20	20.77	20.60	20.67	21.5
15	64QAM	36	39	20.44	20.57	20.49	
15	64QAM	75	0	20.78	20.48	20.61	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.63	22.73	22.67	23.5
10	QPSK	1	25	22.72	22.50	22.66	
10	QPSK	1	49	22.69	22.68	22.43	
10	QPSK	25	0	21.79	21.89	21.67	22.5
10	QPSK	25	12	21.66	21.59	21.41	
10	QPSK	25	25	21.76	21.74	21.52	
10	QPSK	50	0	21.85	21.57	21.83	22.5
10	16QAM	1	0	21.60	21.91	21.70	
10	16QAM	1	25	21.53	21.80	21.58	
10	16QAM	1	49	21.74	21.88	21.73	21.5
10	16QAM	25	0	20.97	20.98	20.63	
10	16QAM	25	12	20.60	20.76	20.49	
10	16QAM	25	25	20.63	20.56	20.69	22.5
10	16QAM	50	0	20.78	20.74	20.69	
10	64QAM	1	0	21.54	21.46	21.82	
10	64QAM	1	25	21.72	21.78	21.44	21.5
10	64QAM	1	49	21.68	21.71	21.59	
10	64QAM	25	0	20.65	20.55	20.50	
10	64QAM	25	12	20.53	20.51	20.80	21.5
10	64QAM	25	25	20.56	20.39	20.40	
10	64QAM	50	0	20.63	20.78	20.61	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	22.70	22.74	22.58	23.5
5	QPSK	1	12	22.68	22.66	22.63	
5	QPSK	1	24	22.60	22.64	22.46	
5	QPSK	12	0	21.71	21.61	21.64	22.5
5	QPSK	12	7	21.46	21.64	21.74	
5	QPSK	12	13	21.77	21.90	21.78	
5	QPSK	25	0	21.47	21.76	21.63	22.5
5	16QAM	1	0	21.94	21.93	21.61	
5	16QAM	1	12	21.73	21.94	21.54	
5	16QAM	1	24	21.61	21.60	21.81	21.5
5	16QAM	12	0	20.86	20.73	20.78	
5	16QAM	12	7	20.54	20.68	20.81	
5	16QAM	12	13	20.64	20.84	20.59	22.5
5	16QAM	25	0	20.65	20.68	20.59	
5	64QAM	1	0	21.55	21.64	21.50	
5	64QAM	1	12	21.63	21.82	21.40	21.5
5	64QAM	1	24	21.72	21.64	21.39	
5	64QAM	12	0	20.87	20.54	20.77	
5	64QAM	12	7	20.40	20.52	20.83	21.5
5	64QAM	12	13	20.71	20.55	20.39	
5	64QAM	25	0	20.79	20.51	20.59	

Band 38(only on channel required) (dBm)							
BW [MHz]	Modulation	RS Size	RS Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dbm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.09	22.21	22.15	23
20	QPSK	1	49	22.13	22.02	22.12	
20	QPSK	1	99	22.03	22.15	22.18	
20	QPSK	50	0	21.29	21.08	21.11	22
20	QPSK	50	24	21.00	21.28	21.01	
20	QPSK	50	50	21.17	21.04	20.99	
20	QPSK	100	0	21.11	21.08	20.93	22
20	16QAM	1	0	21.29	21.34	21.34	
20	16QAM	1	49	21.07	21.07	21.26	
20	16QAM	1	99	21.19	20.93	20.98	21
20	16QAM	50	0	20.29	20.09	20.19	
20	16QAM	50	24	19.97	20.36	20.14	
20	16QAM	50	50	20.15	20.10	19.94	22
20	16QAM	100	0	20.09	19.99	20.04	
20	64QAM	1	0	21.10	20.99	21.05	
20	64QAM	1	49	20.93	21.04	21.20	21
20	64QAM	1	99	21.08	20.91	21.13	
20	64QAM	50	0	19.90	20.04	20.23	
20	64QAM	50	24	19.88	20.06	20.26	21
20	64QAM	50	50	20.07	20.02	19.86	
20	64QAM	100	0	19.90	20.01	19.86	
Channel				37825	38000	38175	Tune-up limit (dbm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.00	22.18	22.11	23
15	QPSK	1	37	22.13	22.02	22.15	
15	QPSK	1	74	22.04	22.16	22.08	
15	QPSK	36	0	21.34	20.99	21.23	22
15	QPSK	36	20	20.97	21.21	20.92	
15	QPSK	36	39	21.03	21.32	21.01	
15	QPSK	75	0	21.02	21.05	20.90	22
15	16QAM	1	0	21.27	21.30	21.29	
15	16QAM	1	37	21.22	21.20	21.30	
15	16QAM	1	74	20.97	20.96	20.90	21
15	16QAM	36	0	20.08	20.41	19.99	
15	16QAM	36	20	20.22	19.98	20.24	
15	16QAM	36	39	19.96	19.92	20.15	22
15	16QAM	75	0	20.12	20.03	20.08	
15	64QAM	1	0	20.98	20.97	21.27	
15	64QAM	1	37	20.83	20.94	21.06	21
15	64QAM	1	74	21.08	20.87	20.83	
15	64QAM	36	0	20.12	20.21	20.22	
15	64QAM	36	20	20.17	19.93	20.12	21
15	64QAM	36	39	19.80	19.90	20.03	
15	64QAM	75	0	20.07	19.89	19.98	
Channel				37800	38000	38200	Tune-up limit (dbm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.16	22.19	22.09	23
10	QPSK	1	25	22.09	22.09	22.03	
10	QPSK	1	49	22.12	21.96	22.09	
10	QPSK	25	0	21.21	21.05	21.04	22
10	QPSK	25	12	21.09	21.05	21.07	
10	QPSK	25	25	21.04	21.20	20.94	
10	QPSK	50	0	21.03	20.88	21.26	22
10	16QAM	1	0	20.95	21.19	21.13	
10	16QAM	1	25	20.99	21.11	21.02	
10	16QAM	1	49	20.97	21.22	21.01	21
10	16QAM	25	0	20.22	20.14	20.07	
10	16QAM	25	12	20.02	20.20	20.20	
10	16QAM	25	25	20.21	19.91	20.20	22
10	16QAM	50	0	20.02	20.20	20.23	
10	64QAM	1	0	21.20	20.92	20.98	
10	64QAM	1	25	21.14	20.93	20.84	21
10	64QAM	1	49	21.02	21.00	21.14	
10	64QAM	25	0	20.10	20.07	20.07	
10	64QAM	25	12	20.15	19.97	20.25	21
10	64QAM	25	25	19.74	19.88	20.02	
10	64QAM	50	0	19.93	20.05	19.96	
Channel				37775	38000	38225	Tune-up limit (dbm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.06	22.20	22.15	23
5	QPSK	1	12	22.05	21.97	21.98	
5	QPSK	1	24	21.90	22.13	21.88	
5	QPSK	12	0	21.19	20.97	20.97	22
5	QPSK	12	7	21.11	21.21	21.11	
5	QPSK	12	13	21.04	21.01	21.18	
5	QPSK	25	0	20.89	21.20	21.26	22
5	16QAM	1	0	21.26	21.35	20.99	
5	16QAM	1	12	21.19	21.30	21.16	
5	16QAM	1	24	21.03	20.90	21.00	21
5	16QAM	12	0	20.10	20.11	20.18	
5	16QAM	12	7	20.13	20.01	20.06	
5	16QAM	12	13	19.96	20.04	20.32	22
5	16QAM	25	0	20.05	20.12	20.06	
5	64QAM	1	0	21.20	21.23	20.95	
5	64QAM	1	12	21.18	21.13	21.02	22
5	64QAM	1	24	20.76	20.79	20.81	
5	64QAM	12	0	20.06	20.23	20.26	
5	64QAM	12	7	19.79	20.13	20.05	21
5	64QAM	12	13	19.99	20.12	20.11	
5	64QAM	25	0	20.07	20.10	20.08	

Band 41 P2 (2496~2690MHz) (dBm)										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel		Tune-up limit (dbm)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.51	25.58	25.70	25.64	25.56	26.5	
20	QPSK	1	49	25.57	25.59	25.67	25.57	25.51		
20	QPSK	1	99	25.56	25.53	25.56	25.55	25.50		
20	QPSK	50	0	24.55	24.67	24.72	24.59	24.64	25.5	
20	QPSK	50	24	24.50	24.53	24.56	24.46	24.66		
20	QPSK	50	50	24.63	24.59	24.62	24.58	24.49		
20	QPSK	100	0	24.37	24.55	24.53	24.54	24.66	25.5	
20	16QAM	1	0	24.58	24.63	24.69	24.65	24.61		
20	16QAM	1	49	24.49	24.57	24.62	24.61	24.64		
20	16QAM	1	99	24.42	24.53	24.56	24.50	24.50	24.5	
20	16QAM	50	0	23.74	23.66	23.73	23.61	23.63		
20	16QAM	50	24	23.61	23.60	23.65	23.56	23.46		
20	16QAM	50	50	23.42	23.51	23.57	23.62	23.56	24.5	
20	16QAM	100	0	23.74	23.58	23.60	23.54	23.65		
20	64QAM	1	0	24.74	24.54	24.53	24.56	24.46		
20	64QAM	1	49	24.36	24.46	24.50	24.48	24.55	25.5	
20	64QAM	1	99	24.60	24.44	24.41	24.43	24.55		
20	64QAM	50	0	23.66	23.58	23.61	23.57	23.60		
20	64QAM	50	24	23.45	23.47	23.50	23.58	23.42	24.5	
20	64QAM	50	50	23.54	23.41	23.47	23.46	23.36		
20	64QAM	100	0	23.65	23.53	23.48	23.44	23.54		
Channel				39725	40173	40620	41088	41515		Tune-up limit (dbm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.42	25.43	25.66	25.61	25.56	26.5	
15	QPSK	1	37	25.63	25.48	25.48	25.65	25.45		
15	QPSK	1	74	25.45	25.42	25.45	25.57	25.53		
15	QPSK	36	0	24.67	24.57	24.41	24.63	24.40	25.5	
15	QPSK	36	20	24.43	24.37	24.59	24.38	24.47		
15	QPSK	36	39	24.71	24.49	24.77	24.68	24.72		
15	QPSK	75	0	24.73	24.67	24.58	24.70	24.68	25.5	
15	16QAM	1	0	24.82	24.46	24.66	24.71	24.62		
15	16QAM	1	37	24.40	24.73	24.44	24.50	24.73		
15	16QAM	1	74	24.48	24.48	24.57	24.43	24.52	24.5	
15	16QAM	36	0	23.88	23.62	23.82	23.74	23.60		
15	16QAM	36	20	23.45	23.61	23.46	23.51	23.47		
15	16QAM	36	39	23.50	23.47	23.57	23.74	23.59	24.5	
15	16QAM	75	0	23.80	23.59	23.72	23.53	23.63		
15	64QAM	1	0	24.38	24.66	24.58	24.63	24.43		
15	64QAM	1	37	24.61	24.65	24.41	24.39	24.64	25.5	
15	64QAM	1	74	24.63	24.64	24.42	24.33	24.48		
15	64QAM	36	0	23.46	23.61	23.60	23.59	23.54		
15	64QAM	36	20	23.32	23.57	23.52	23.54	23.63	24.5	
15	64QAM	36	39	23.37	23.46	23.56	23.46	23.33		
15	64QAM	75	0	23.44	23.53	23.44	23.33	23.35		
Channel				39700	40160	40620	41080	41540		Tune-up limit (dbm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.58	25.60	25.67	25.63	25.52	26.5	
10	QPSK	1	25	25.51	25.51	25.62	25.62	25.50		
10	QPSK	1	49	25.64	25.65	25.63	25.57	25.45		
10	QPSK	25	0	24.61	24.68	24.77	24.72	24.61	25.5	
10	QPSK	25	12	24.55	24.55	24.53	24.63	24.49		
10	QPSK	25	24	24.48	24.72	24.55	24.44	24.38		
10	QPSK	50	0	24.59	24.50	24.50	24.47	24.36	25.5	
10	16QAM	1	0	24.63	24.54	24.60	24.52	24.71		
10	16QAM	1	25	24.62	24.58	24.62	24.51	24.61		
10	16QAM	1	49	24.45	24.62	24.57	24.58	24.44	24.5	
10	16QAM	25	0	23.88	23.69	23.73	23.54	23.43		
10	16QAM	25	12	23.76	23.75	23.79	23.75	23.65		
10	16QAM	25	25	23.39	23.51	23.66	23.49	23.68	24.5	
10	16QAM	50	0	23.67	23.58	23.69	23.73	23.73		
10	64QAM	1	0	24.63	24.61	24.65	24.64	24.75		
10	64QAM	1	25	24.42	24.58	24.68	24.55	24.36	25.5	
10	64QAM	1	49	24.58	24.49	24.51	24.29	24.38		
10	64QAM	25	0	23.56	23.53	23.57	23.56	23.73		
10	64QAM	25	12	23.43	23.67	23.60	23.54	23.62	24.5	
10	64QAM	25	25	23.37	23.45	23.55	23.60	23.31		
10	64QAM	50	0	23.44	23.45	23.39	23.46	23.56		
Channel				39675	40148	40620	41093	41565		Tune-up limit (dbm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.54	25.63	25.64	25.58	25.55	26.5	
5	QPSK	1	12	25.62	25.52	25.58	25.62	25.47		
5	QPSK	1	24	25.52	25.41	25.60	25.49	25.60		
5	QPSK	12	0	24.80	24.81	24.73	24.59	24.68	25.5	
5	QPSK	12	7	24.50	24.52	24.59	24.48	24.56		
5	QPSK	12	13	24.62	24.57	24.76	24.44	24.61		
5	QPSK	25	0	24.70	24.48	24.54	24.66	24.63	25.5	
5	16QAM	1	0	24.84	24.49	24.56	24.81	24.58		
5	16QAM	12	24	24.11	24.74	24.43	24.41	24.53		
5	16QAM	1	24	24.45	24.66	24.73	24.68	24.41	24.5	
5	16QAM	12	0	23.89	23.48	23.53	23.65	23.57		
5	16QAM	12	7	23.69	23.76	23.63	23.62	23.54		
5	16QAM	12	13	23.41	23.42	23.62	23.81	23.63	24.5	
5	16QAM	25	0	23.45	23.69	23.45	23.30	23.45		
5	64QAM	1	0	24.47	24.49	24.61	24.46	24.46		
5	64QAM	1	12	24.55	24.34	24.33	24.47	24.30	25.5	
5	64QAM	1	24	24.62	24.53	24.54	24.41	24.29		
5	64QAM	12	0	23.55	23.58	23.70	23.66	23.72		
5	64QAM	12	7	23.30	23.35	23.57	23.68	23.38	24.5	
5	64QAM	12	13	23.54	23.35	23.21	23.40	23.29		
5	64QAM	25	0	23.51	23.58	23.64	23.38	23.48		

Band 41 P3 (2496~2690MHz) (dBm)										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel		Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.48	22.52	22.62	22.53	22.38	23.5	
20	QPSK	1	49	22.55	22.42	22.51	22.51	22.51		
20	QPSK	1	99	22.50	22.55	22.55	22.32	22.48		
20	QPSK	50	0	21.84	21.83	21.67	21.58	21.43		
20	QPSK	50	24	21.64	21.80	21.58	21.85	21.35	22.5	
20	QPSK	50	50	21.75	21.66	21.68	21.71	21.76		
20	QPSK	100	0	21.53	21.71	21.62	21.44	21.45		
20	16QAM	1	0	21.43	21.37	21.81	21.75	21.65		
20	16QAM	1	49	21.35	21.42	21.35	21.42	21.78	22.5	
20	16QAM	1	99	21.32	21.87	21.90	21.30	21.49		
20	16QAM	50	0	20.80	20.89	20.68	20.40	20.71		
20	16QAM	50	24	21.02	20.60	20.68	20.59	21.03		
20	16QAM	50	50	20.59	20.71	20.97	20.31	20.39	21.5	
20	16QAM	100	0	20.86	20.91	20.81	20.54	21.09		
20	64QAM	1	0	21.62	21.95	21.99	21.74	21.64		
20	64QAM	1	49	21.50	21.58	21.69	21.86	21.35		
20	64QAM	1	99	21.55	21.72	21.58	21.73	21.37	22.5	
20	64QAM	50	0	20.47	20.61	20.65	20.77	20.72		
20	64QAM	50	24	20.26	20.90	20.96	20.43	20.22		
20	64QAM	50	50	20.31	20.55	20.53	20.54	20.19		
20	64QAM	100	0	20.53	20.62	20.72	20.65	20.45	21.5	
Channel				39725	40173	40620	41068	41515		Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.42	22.50	22.80	22.55	22.49	23.5	
15	QPSK	1	37	22.51	22.52	22.49	22.39	22.40		
15	QPSK	1	74	22.44	22.47	22.36	22.55	22.51		
15	QPSK	36	0	21.63	21.94	21.65	21.66	21.35		
15	QPSK	36	20	21.54	21.74	21.79	21.73	21.53	22.5	
15	QPSK	36	39	21.74	21.89	21.49	21.87	21.70		
15	QPSK	75	0	21.40	21.81	21.58	21.46	21.69		
15	16QAM	1	0	21.47	21.39	21.72	21.78	21.50		
15	16QAM	1	37	21.60	21.48	21.29	21.75	21.90	22.5	
15	16QAM	1	74	21.27	21.64	21.75	21.48	21.78		
15	16QAM	36	0	20.95	20.93	20.59	20.46	20.71		
15	16QAM	36	20	20.99	20.77	20.99	20.67	20.73		
15	16QAM	36	39	20.56	21.09	20.87	20.41	20.75	21.5	
15	16QAM	75	0	20.97	20.74	20.76	20.39	20.73		
15	64QAM	1	0	21.64	21.76	21.64	21.92	21.62		
15	64QAM	1	37	21.63	21.54	21.59	21.73	21.54		
15	64QAM	1	74	21.54	21.43	21.86	21.80	21.33	22.5	
15	64QAM	36	0	20.33	20.38	20.44	20.75	20.74		
15	64QAM	36	20	20.48	20.91	20.97	20.42	20.26		
15	64QAM	36	39	20.37	20.80	20.52	20.66	20.23		
15	64QAM	75	0	20.53	20.62	20.72	20.65	20.45	21.5	
Channel				39700	40160	40620	41080	41540		Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.51	22.54	22.58	22.51	22.49	23.5	
10	QPSK	1	25	22.47	22.49	22.49	22.38	22.53		
10	QPSK	1	49	22.41	22.55	22.53	22.50	22.37		
10	QPSK	25	0	21.87	21.77	21.82	21.56	21.54		
10	QPSK	25	12	21.59	21.58	21.53	21.58	21.39	22.5	
10	QPSK	25	25	21.83	22.00	21.68	21.72	21.68		
10	QPSK	50	0	21.62	21.58	21.67	21.64	21.68		
10	16QAM	1	0	21.44	21.46	21.71	21.63	21.41		
10	16QAM	1	25	21.39	21.45	21.27	21.69	21.76	22.5	
10	16QAM	1	49	21.37	21.68	21.96	21.50	21.47		
10	16QAM	25	0	20.89	20.86	20.85	20.64	20.64		
10	16QAM	25	12	20.92	20.46	20.72	20.89	21.06		
10	16QAM	25	25	20.57	20.98	20.83	20.35	20.59	21.5	
10	16QAM	50	0	20.86	20.87	20.83	20.27	20.76		
10	64QAM	1	0	21.81	21.90	21.88	21.84	21.69		
10	64QAM	1	25	21.39	21.48	21.72	21.65	21.52		
10	64QAM	1	49	21.79	21.43	21.79	21.67	21.58	22.5	
10	64QAM	25	0	20.38	20.46	20.65	20.86	20.75		
10	64QAM	25	12	20.24	20.81	20.66	20.63	20.22		
10	64QAM	25	25	20.53	20.46	20.58	20.75	20.38		
10	64QAM	50	0	20.53	20.62	20.72	20.65	20.45	21.5	
Channel				39675	40148	40620	41093	41565		Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.47	22.49	22.57	22.52	22.53	23.5	
5	QPSK	1	12	22.50	22.54	22.37	22.41	22.49		
5	QPSK	1	24	22.36	22.39	22.27	22.31	22.42		
5	QPSK	12	0	21.69	21.84	21.53	21.34	21.31		
5	QPSK	12	7	21.61	21.84	21.53	21.69	21.66	22.5	
5	QPSK	12	13	21.89	21.92	21.64	21.97	21.46		
5	QPSK	25	0	21.33	21.59	21.38	21.66	21.63		
5	16QAM	1	0	21.29	21.24	21.79	21.82	21.72		
5	16QAM	1	12	21.67	21.59	21.36	21.38	21.85	22.5	
5	16QAM	1	24	21.57	21.65	21.82	21.47	21.61		
5	16QAM	12	0	20.97	21.06	20.72	20.57	20.33		
5	16QAM	12	7	21.01	20.57	20.65	20.96	21.05		
5	16QAM	12	13	20.56	20.89	21.00	20.29	20.65	21.5	
5	16QAM	25	0	20.97	20.94	20.99	20.58	20.86		
5	64QAM	1	0	21.65	21.61	21.96	21.80	21.44		
5	64QAM	1	12	21.46	21.84	21.77	21.83	21.23		
5	64QAM	1	24	21.65	21.63	21.84	21.52	21.45	22.5	
5	64QAM	12	0	20.47	20.46	20.84	20.60	20.53		
5	64QAM	12	7	20.38	20.77	20.86	20.66	20.55		
5	64QAM	12	13	20.38	20.76	20.64	20.78	20.45		
5	64QAM	25	0	20.53	20.62	20.72	20.65	20.45	21.5	
Channel				39700	40160	40620	41080	41540		Tune-up limit (dBm)

Band 42 (3450~3550MHz) (dBm)										
BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dBm)			
Channel				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	20.63	20.80	20.71	21.5			
20	QPSK	1	49	20.56	20.54	20.60				
20	QPSK	1	99	20.58	20.48	20.72				
20	QPSK	50	0	19.72	19.85	19.82				
20	QPSK	50	24	19.58	19.66	19.65	20.5			
20	QPSK	50	50	19.76	19.74	19.70				
20	QPSK	100	0	19.53	19.69	19.50				
20	16QAM	1	0	19.83	19.84	19.69				
20	16QAM	1	49	19.52	19.63	19.77	20.5			
20	16QAM	1	99	19.73	19.69	19.52				
20	16QAM	50	0	18.67	18.79	18.68				
20	16QAM	50	24	18.79	18.75	18.63				
20	16QAM	50	50	18.59	18.52	18.77	19.5			
20	16QAM	100	0	18.59	18.59	18.57				
20	64QAM	1	0	19.69	19.79	19.69				
20	64QAM	1	49	19.62	19.42	19.48				
20	64QAM	1	99	19.64	19.67	19.40	20.5			
20	64QAM	50	0	18.88	18.58	18.51				
20	64QAM	50	24	18.73	18.67	18.75				
20	64QAM	50	50	18.70	18.45	18.38				
20	64QAM	100	0	18.73	18.59	18.55	19.5			
Channel				42165	42590	43015				
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	20.72	20.77	20.66	21.5			
15	QPSK	1	37	20.77	20.78	20.64				
15	QPSK	1	74	20.73	20.72	20.45				
15	QPSK	36	0	19.89	19.89	19.68				
15	QPSK	36	20	19.51	19.82	19.69	20.5			
15	QPSK	36	39	19.82	19.55	19.69				
15	QPSK	75	0	19.79	19.70	19.79				
15	16QAM	1	0	19.84	19.92	19.58				
15	16QAM	1	37	19.55	19.85	19.74	20.5			
15	16QAM	1	74	19.80	19.67	19.50				
15	16QAM	36	0	18.95	18.75	18.82				
15	16QAM	36	20	18.57	18.59	18.89				
15	16QAM	36	39	18.50	18.61	18.73	19.5			
15	16QAM	75	0	18.77	18.54	18.70				
15	64QAM	1	0	19.80	19.58	19.57				
15	64QAM	1	37	19.77	19.74	19.67				
15	64QAM	1	74	19.46	19.37	19.51	20.5			
15	64QAM	36	0	18.70	18.69	18.73				
15	64QAM	36	20	18.40	18.73	18.70				
15	64QAM	36	39	18.66	18.71	18.53				
15	64QAM	75	0	18.71	18.58	18.47	19.5			
Channel				42140	42590	43040				
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	20.58	20.71	20.65	21.5			
10	QPSK	1	25	20.67	20.45	20.51				
10	QPSK	1	49	20.48	20.77	20.58				
10	QPSK	25	0	19.63	19.59	19.89				
10	QPSK	25	12	19.66	19.58	19.82	20.5			
10	QPSK	25	25	19.55	19.63	19.86				
10	QPSK	50	0	19.59	19.46	19.76				
10	16QAM	1	0	19.74	19.67	19.73				
10	16QAM	1	25	19.86	19.55	19.49	20.5			
10	16QAM	1	49	19.53	19.87	19.73				
10	16QAM	25	0	18.96	18.70	18.85				
10	16QAM	25	12	18.72	18.59	18.80				
10	16QAM	25	25	18.49	18.79	18.48	19.5			
10	16QAM	50	0	18.90	18.76	18.59				
10	64QAM	1	0	19.50	19.76	19.74				
10	64QAM	1	25	19.46	19.48	19.43				
10	64QAM	1	49	19.55	19.69	19.51	20.5			
10	64QAM	25	0	18.58	18.64	18.57				
10	64QAM	25	12	18.68	18.58	18.44				
10	64QAM	25	25	18.63	18.68	18.52				
10	64QAM	50	0	18.51	18.58	18.77	19.5			
Channel				42115	42590	43065				
Frequency (MHz)				3452.5	3500	3547.5				
5	QPSK	1	0	20.72	20.78	20.64	21.5			
5	QPSK	1	12	20.57	20.56	20.71				
5	QPSK	1	24	20.73	20.56	20.70				
5	QPSK	12	0	19.78	19.63	19.77				
5	QPSK	12	7	19.85	19.56	19.64	20.5			
5	QPSK	12	13	19.82	19.64	19.91				
5	QPSK	25	0	19.61	19.47	19.69				
5	16QAM	1	0	19.57	19.95	19.95				
5	16QAM	1	12	19.71	19.74	19.51	20.5			
5	16QAM	1	24	19.52	19.71	19.83				
5	16QAM	12	0	18.80	18.95	18.95				
5	16QAM	12	7	18.66	18.68	18.70				
5	16QAM	12	13	18.60	18.53	18.77	19.5			
5	16QAM	25	0	18.59	18.63	18.56				
5	64QAM	1	0	19.46	19.57	19.77				
5	64QAM	1	12	19.45	19.70	19.41				
5	64QAM	1	24	19.75	19.62	19.56	20.5			
5	64QAM	12	0	18.51	18.82	18.76				
5	64QAM	12	7	18.49	18.72	18.57				
5	64QAM	12	13	18.70	18.52	18.66				
5	64QAM	25	0	18.81	18.40	18.80	19.5			

Band 42 (3550~3600MHz) (dBm)										
BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Channel	High Channel	Tune-up limit (dbm)			
Channel				43190	43340	43490				
Frequency (MHz)				3590	3575	3590				
20	QPSK	1	0	20.73	20.76	20.74	21.5			
20	QPSK	1	49	20.66	20.75	20.53				
20	QPSK	1	99	20.59	20.47	20.71				
20	QPSK	50	0	19.70	19.75	19.62				
20	QPSK	50	24	19.47	19.67	19.47	20.5			
20	QPSK	50	50	19.66	19.63	19.59				
20	QPSK	100	0	19.64	19.68	19.66				
20	16QAM	1	0	19.67	19.72	19.67				
20	16QAM	1	49	19.69	19.65	19.52	20.5			
20	16QAM	1	99	19.43	19.53	19.63				
20	16QAM	50	0	18.70	18.78	18.69				
20	16QAM	50	24	18.60	18.73	18.63				
20	16QAM	50	50	18.66	18.65	18.73	19.5			
20	16QAM	100	0	18.56	18.53	18.48				
20	64QAM	1	0	19.78	19.81	19.63				
20	64QAM	1	49	19.58	19.59	19.58				
20	64QAM	1	99	19.48	19.55	19.46	20.5			
20	64QAM	50	0	18.57	18.85	18.58				
20	64QAM	50	24	18.40	18.54	18.50				
20	64QAM	50	50	18.52	18.42	18.66				
20	64QAM	100	0	18.56	18.68	18.74	19.5			
Channel				43165	43340	43515				
Frequency (MHz)				3557.5	3575	3592.5				
15	QPSK	1	0	20.68	20.70	20.67		21.5		
15	QPSK	1	37	20.66	20.56	20.57				
15	QPSK	1	74	20.62	20.46	20.42				
15	QPSK	36	0	19.60	19.72	19.62				
15	QPSK	36	20	19.65	19.56	19.49	20.5			
15	QPSK	36	39	19.59	19.59	19.56				
15	QPSK	75	0	19.45	19.49	19.48				
15	16QAM	1	0	19.70	19.71	19.63				
15	16QAM	1	37	19.66	19.53	19.61	20.5			
15	16QAM	1	74	19.72	19.67	19.44				
15	16QAM	36	0	18.70	18.71	18.74				
15	16QAM	36	20	18.78	18.76	18.73				
15	16QAM	36	39	18.51	18.68	18.70	19.5			
15	16QAM	75	0	18.62	18.59	18.81				
15	64QAM	1	0	19.77	19.70	19.83				
15	64QAM	1	37	19.54	19.44	19.77				
15	64QAM	1	74	19.71	19.49	19.69	20.5			
15	64QAM	36	0	18.88	18.60	18.83				
15	64QAM	36	20	18.70	18.76	18.54				
15	64QAM	36	39	18.42	18.48	18.67				
15	64QAM	75	0	18.81	18.41	18.60	19.5			
Channel				43140	43340	43540				
Frequency (MHz)				3555	3575	3595				
10	QPSK	1	0	20.69	20.74	20.61		21.5		
10	QPSK	1	25	20.58	20.67	20.67				
10	QPSK	1	49	20.66	20.68	20.51				
10	QPSK	25	0	19.70	19.76	19.61				
10	QPSK	25	12	19.64	19.57	19.58	20.5			
10	QPSK	25	25	19.63	19.56	19.68				
10	QPSK	50	0	19.68	19.55	19.68				
10	16QAM	1	0	19.74	19.78	19.73				
10	16QAM	1	25	19.47	19.80	19.60	20.5			
10	16QAM	1	49	19.53	19.67	19.44				
10	16QAM	25	0	18.77	18.80	18.60				
10	16QAM	25	12	18.60	18.67	18.71				
10	16QAM	25	25	18.66	18.61	18.73	19.5			
10	16QAM	50	0	18.71	18.54	18.45				
10	64QAM	1	0	19.66	19.75	19.74				
10	64QAM	1	25	19.43	19.52	19.64				
10	64QAM	1	49	19.62	19.50	19.50	20.5			
10	64QAM	25	0	18.69	18.75	18.77				
10	64QAM	25	12	18.67	18.70	18.70				
10	64QAM	25	25	18.49	18.50	18.71				
10	64QAM	50	0	18.46	18.41	18.63	19.5			
Channel				43115	43340	43565				
Frequency (MHz)				3552.5	3575	3597.5				
5	QPSK	1	0	20.59	20.72	20.71		21.5		
5	QPSK	1	12	20.54	20.65	20.67				
5	QPSK	1	24	20.66	20.53	20.50				
5	QPSK	12	0	19.74	19.79	19.77				
5	QPSK	12	7	19.54	19.76	19.55	20.5			
5	QPSK	12	13	19.70	19.62	19.48				
5	QPSK	25	0	19.61	19.64	19.50				
5	16QAM	1	0	19.76	19.70	19.77				
5	16QAM	1	12	19.66	19.73	19.68	20.5			
5	16QAM	1	24	19.50	19.48	19.40				
5	16QAM	12	0	18.81	18.81	18.52				
5	16QAM	12	7	18.58	18.65	18.57				
5	16QAM	12	13	18.58	18.80	18.71	19.5			
5	16QAM	25	0	18.50	18.68	18.65				
5	64QAM	1	0	19.65	19.55	19.60				
5	64QAM	1	12	19.53	19.51	19.49				
5	64QAM	1	24	19.35	19.60	19.38	20.5			
5	64QAM	12	0	18.88	18.64	18.87				
5	64QAM	12	7	18.76	18.50	18.59				
5	64QAM	12	13	18.43	18.70	18.59				
5	64QAM	25	0	18.59	18.62	18.65	19.5			

Band 48 (3.5G Band) (dBm)										
BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel		Tune-up limit (dbm)
Channel				55340	55830	55990	56150	56640		
Frequency (MHz)				3560	3609	3625	3641	3690		
20	QPSK	1	0	20.63	20.62	20.95	20.70	20.54	21.5	
20	QPSK	1	49	20.58	20.50	20.70	20.62	20.61		
20	QPSK	1	99	20.44	20.68	20.55	20.61	20.55		
20	QPSK	50	0	19.78	19.88	19.72	19.62	19.50		
20	QPSK	50	24	19.78	19.77	19.76	19.83	19.59	20.5	
20	QPSK	50	50	19.89	19.93	19.78	19.89	19.74		
20	QPSK	100	0	19.61	19.82	19.67	19.59	19.62		
20	16QAM	1	0	19.58	19.53	19.97	19.77	19.68		
20	16QAM	1	49	19.61	19.67	19.53	19.67	19.88	20.5	
20	16QAM	1	99	19.47	19.78	19.98	19.51	19.69		
20	16QAM	50	0	18.97	18.96	18.81	18.70	18.62		
20	16QAM	50	24	18.96	18.71	18.94	18.87	18.96		
20	16QAM	50	50	18.83	19.01	18.99	18.59	18.68	19.5	
20	16QAM	100	0	18.90	18.88	19.03	18.54	19.02		
20	64QAM	1	0	19.79	19.88	19.92	19.91	19.68		
20	64QAM	1	49	19.67	19.74	19.88	19.87	19.49		
20	64QAM	1	99	19.79	19.69	19.77	19.80	19.52	20.5	
20	64QAM	50	0	18.48	18.59	18.74	18.76	18.66		
20	64QAM	50	24	18.53	18.85	18.89	18.63	18.52		
20	64QAM	50	50	18.54	18.73	18.74	18.80	18.43		
20	64QAM	100	0	18.63	18.72	18.82	18.75	18.55	19.5	
Channel				55315	55820	55990	56160	56665		
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	Tune-up limit (dbm)	
15	QPSK	1	0	20.75	20.67	20.91	20.52	20.44	21.5	
15	QPSK	1	37	20.76	20.69	20.56	20.46	20.61		
15	QPSK	1	74	20.52	20.63	20.36	20.43	20.68		
15	QPSK	36	0	19.70	19.96	19.70	19.55	19.30		
15	QPSK	36	20	19.82	19.92	19.88	19.89	19.75	20.5	
15	QPSK	36	39	19.77	19.82	19.87	19.76	19.61		
15	QPSK	75	0	19.49	19.82	19.56	19.52	19.45		
15	16QAM	1	0	19.70	19.64	19.94	19.96	19.58		
15	16QAM	1	37	19.64	19.82	19.47	19.49	20.02	20.5	
15	16QAM	1	74	19.65	19.66	20.01	19.47	19.49		
15	16QAM	36	0	18.81	18.91	18.65	18.75	18.71		
15	16QAM	36	20	19.00	18.74	19.04	18.84	18.91		
15	16QAM	36	39	19.03	19.17	18.90	18.51	18.57	19.5	
15	16QAM	75	0	18.89	18.92	19.12	18.68	18.85		
15	64QAM	1	0	19.98	19.83	20.04	19.75	19.61		
15	64QAM	1	37	19.56	19.60	19.94	19.70	19.69		
15	64QAM	1	74	19.96	19.69	19.86	19.69	19.70	20.5	
15	64QAM	36	0	18.65	18.73	18.91	18.57	18.68		
15	64QAM	36	20	18.58	18.72	18.82	18.60	18.35		
15	64QAM	36	39	18.52	18.90	18.69	18.67	18.33		
15	64QAM	75	0	18.63	18.72	18.82	18.75	18.55	19.5	
Channel				55290	55815	55990	56165	56690		
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	Tune-up limit (dbm)	
10	QPSK	1	0	20.65	20.72	20.85	20.61	20.67	21.5	
10	QPSK	1	25	20.63	20.39	20.43	20.57	20.56		
10	QPSK	1	49	20.37	20.67	20.48	20.58	20.37		
10	QPSK	25	0	19.80	19.80	19.74	19.66	19.60		
10	QPSK	25	12	19.95	19.91	19.69	19.96	19.59	20.5	
10	QPSK	25	25	19.71	20.13	19.75	19.81	19.71		
10	QPSK	50	0	19.71	19.83	18.85	19.42	19.51		
10	16QAM	1	0	19.70	19.48	19.80	19.91	19.50		
10	16QAM	1	25	19.75	19.75	19.36	19.69	19.92	20.5	
10	16QAM	1	49	19.53	19.87	20.10	19.41	19.85		
10	16QAM	25	0	19.17	18.80	18.84	18.84	18.52		
10	16QAM	25	12	19.08	18.67	18.93	18.74	18.91		
10	16QAM	25	25	18.69	19.05	18.93	18.74	18.49	19.5	
10	16QAM	50	0	18.91	19.03	18.90	18.44	18.90		
10	64QAM	1	0	19.88	19.87	19.79	19.71	19.59		
10	64QAM	1	25	19.59	19.90	19.90	19.89	19.46		
10	64QAM	1	49	19.79	19.82	19.79	19.80	19.57	20.5	
10	64QAM	25	0	18.49	18.69	18.57	18.63	18.68		
10	64QAM	25	12	18.67	18.70	18.89	18.70	18.64		
10	64QAM	25	25	18.34	18.61	18.75	18.76	18.47		
10	64QAM	50	0	18.63	18.72	18.82	18.75	18.55	19.5	
Channel				55265	55810	55990	56170	56175		
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	Tune-up limit (dbm)	
5	QPSK	1	0	20.66	20.76	20.78	20.53	20.45	21.5	
5	QPSK	1	12	20.44	20.53	20.61	20.76	20.65		
5	QPSK	1	24	20.50	20.77	20.45	20.59	20.49		
5	QPSK	12	0	19.81	19.97	19.86	19.59	19.48		
5	QPSK	12	7	19.74	19.71	19.89	19.99	19.63	20.5	
5	QPSK	12	13	19.84	19.73	19.76	19.89	19.68		
5	QPSK	25	0	19.43	19.62	19.80	19.65	19.74		
5	16QAM	1	0	19.47	19.37	20.16	19.83	19.55		
5	16QAM	1	12	19.76	19.58	19.98	19.73	19.71	20.5	
5	16QAM	1	24	19.28	19.61	19.90	19.58	19.72		
5	16QAM	12	0	18.88	18.77	18.69	18.84	18.74		
5	16QAM	12	7	19.01	18.90	19.03	18.95	18.90		
5	16QAM	12	13	18.71	18.95	18.80	18.59	18.54	19.5	
5	16QAM	25	0	18.76	18.76	19.13	18.62	19.12		
5	64QAM	1	0	19.69	19.87	19.88	19.71	19.53		
5	64QAM	1	12	19.82	19.93	19.95	19.81	19.45		
5	64QAM	1	24	19.85	19.89	19.70	19.61	19.60	20.5	
5	64QAM	12	0	18.68	18.74	18.74	18.78	18.67		
5	64QAM	12	7	18.43	19.02	19.00	18.46	18.46		
5	64QAM	12	13	18.56	18.78	18.80	18.64	18.58		
5	64QAM	25	0	18.63	18.72	18.82	18.75	18.55	19.5	

n5 (824 ~ 849 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.58	23.60	20.68	24.5
20		1	53	23.76	23.83	23.64	
20		1	104	23.66	23.61	23.18	
20		50	1	23.21	23.27	23.20	24.5
20		50	25	23.80	22.19	23.82	
20		50	50	23.28	23.31	23.26	
20		100	0	23.25	23.29	13.32	
20	DFT-s-OFDM QPSK	1	1	23.72	23.93	23.66	24.5
20		1	53	23.82	23.89	23.79	
20		1	104	23.70	23.73	23.69	
20		50	1	23.81	23.84	23.85	24.5
20		50	25	23.74	23.73	23.75	
20		50	50	22.70	22.79	22.80	
20		100	0	22.74	22.79	22.80	
20	DFT-s-OFDM 16QAM	1	1	23.01	22.51	22.75	24
20	DFT-s-OFDM 64QAM	1	1	21.17	20.93	21.49	22
20	DFT-s-OFDM 256QAM	1	1	19.38	19.05	19.31	20
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.58	23.65	23.33	24.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.60	22.96	22.10	24.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	20.80	23.27	23.71	24.5
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	CP-OFDM QPSK	1	1	22.03	21.62	22.12	23
20	CP-OFDM 16QAM	1	1	21.55	21.64	21.70	22.5
20	CP-OFDM 64QAM	1	1	20.16	20.12	20.14	21
20	CP-OFDM 256QAM	1	1	17.22	17.29	16.40	18

n7 (2500 ~ 2570 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				-10	2535	10	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.63	21.28	21.39	25
20		1	53	24.12	21.62	21.52	
20		1	104	23.45	21.44	21.33	
20		50	1	23.67	21.48	20.24	25
20		50	25	24.23	21.02	20.03	
20		50	50	23.84	21.03	20.26	
20		100	0	23.74	19.37	20.68	
20	DFT-s-OFDM QPSK	1	1	24.26	24.40	24.22	25
20		1	53	24.20	23.54	21.62	
20		1	104	22.94	23.93	20.62	
20		50	1	23.51	23.83	23.69	25
20		50	25	23.41	23.82	23.69	
20		50	50	23.30	23.11	22.92	
20		100	0	23.04	23.16	23.07	
20	DFT-s-OFDM 16QAM	1	1	22.04	22.74	21.05	23.5
20	DFT-s-OFDM 64QAM	1	1	21.82	21.32	21.02	22.5
20	DFT-s-OFDM 256QAM	1	1	19.10	19.59	19.03	20
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				-7.5	2535	7.5	
15	DFT-s-OFDM QPSK	1	1	24.19	24.12	24.06	25
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				-5	2535	5	
10	DFT-s-OFDM QPSK	1	1	22.86	24.00	22.47	25
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				-10	2535	10	
20	CP-OFDM QPSK	1	1	19.59	22.62	19.91	23.5
20	CP-OFDM 16QAM	1	1	20.22	22.11	20.57	23
20	CP-OFDM 64QAM	1	1	20.09	20.49	20.23	21
20	CP-OFDM 256QAM	1	1	17.57	17.88	18.33	19

n38 (2570 ~ 2620 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	22.02	20.55	20.44	23
40		1	53	21.64	20.89	20.57	
40		1	105	20.63	20.43	19.92	
40		50	1	20.85	20.69	20.35	23
40		50	25	21.42	20.92	20.57	
40		50	50	20.60	20.29	19.93	
40		100	0	20.77	20.89	20.14	
40	DFT-s-OFDM QPSK	1	1	22.05	22.20	22.09	23
40		1	53	21.05	21.41	21.03	
40		1	105	19.85	20.19	19.85	
40		50	1	21.80	21.95	21.55	23
40		50	25	21.60	21.75	21.35	
40		50	50	20.72	20.04	20.05	
40		100	0	20.64	20.02	19.67	
40	DFT-s-OFDM 16QAM	1	1	19.35	19.19	18.96	20
40	DFT-s-OFDM 64QAM	1	1	18.36	18.23	17.65	19
40	DFT-s-OFDM 256QAM	1	1	16.25	15.91	15.43	17
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	20.36	20.81	21.14	23
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	20.38	21.72	20.38	23
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	21.11	20.86	20.31	23
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	CP-OFDM QPSK	1	1	18.94	19.04	19.39	20
40	CP-OFDM 16QAM	1	1	18.85	18.63	18.11	19.5
40	CP-OFDM 64QAM	1	1	18.77	17.59	16.54	19.5
40	CP-OFDM 256QAM	1	1	15.48	14.74	14.40	16

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	27.5
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.08	25.33	25.22	25.67	25.68	27.5
100		1	136	25.84	26.89	26.51	26.94	26.68	
100		1	272	23.20	23.21	23.26	23.42	23.16	
100		135	1	25.02	25.81	25.98	26.15	26.31	27.5
100		135	67	25.62	26.04	26.65	26.93	26.63	
100		135	136	25.10	26.03	26.39	26.47	26.51	
100		270	0	25.09	25.94	26.16	26.30	26.35	
100	DFT-s-OFDM QPSK	1	1	26.66	26.51	26.95	26.50	26.44	27.5
100		1	136	25.89	26.75	26.35	26.76	26.65	
100		1	272	23.07	23.16	23.28	23.39	23.18	
100		135	1	26.08	26.33	26.86	26.71	26.76	27.5
100		135	67	25.63	26.38	26.66	26.76	26.81	
100		135	136	25.02	25.80	25.89	25.97	26.00	
100		270	0	25.01	25.45	25.66	25.77	25.87	
100	DFT-s-OFDM 16QAM	1	1	24.03	24.22	24.13	24.75	24.75	25.5
100	DFT-s-OFDM 64QAM	1	1	22.69	23.02	23.06	23.51	23.73	24.5
100	DFT-s-OFDM 256QAM	1	1	21.02	21.07	21.16	21.46	21.50	22.5
Channel				508200	513399	518598	523797	528996	27.5
Frequency (MHz)				2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM QPSK	1	1	24.57	25.45	25.44	26.04	25.92	27.5
Channel				507204	512904	518598	524298	529998	27.5
Frequency (MHz)				2536.02	2564.51	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	24.89	25.63	25.67	25.10	26.25	27.5
Channel				505200	511902	518598	525300	531996	27.5
Frequency (MHz)				2526.00	2559.50	2592.99	2626.49	2659.98	
60	DFT-s-OFDM QPSK	1	1	25.14	25.91	26.25	26.33	26.56	27.5
Channel				504204	511401	518598	525798	532998	27.5
Frequency (MHz)				2521.02	2557.005	2592.99	2628.99	2664.99	
50	DFT-s-OFDM QPSK	1	1	25.31	26.01	26.53	26.55	26.62	27.5
Channel				503202	510900	518598	526296	534000	27.5
Frequency (MHz)				2516.01	2554.50	2592.99	2631.50	2670.00	
40	DFT-s-OFDM QPSK	1	1	24.88	25.72	26.33	26.40	26.50	27.5
Channel				502200	510402	518598	526800	534996	27.5
Frequency (MHz)				2511.00	2552.00	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	25.27	25.89	26.39	26.59	26.80	27.5
Channel				501204	509901	518598	527298	535998	27.5
Frequency (MHz)				2506.02	2549.505	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	25.24	26.05	26.69	26.79	26.33	27.5
Channel				500700	509649	518598	527547	536496	27.5
Frequency (MHz)				2503.5	2548.245	2592.99	2637.735	2682.48	
15	DFT-s-OFDM QPSK	1	1	25.47	26.12	26.33	26.64	26.70	27.5
Channel				500202	509400	518598	527799	537000	27.5
Frequency (MHz)				2501.01	2547	2592.99	2638.995	2685	
10	DFT-s-OFDM QPSK	1	1	25.43	26.19	26.71	26.69	26.93	27.5
Channel				509202	513900	518598	523296	528000	25
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	CP-OFDM QPSK	1	1	23.49	23.93	23.71	24.02	24.36	25
100	CP-OFDM 16QAM	1	1	23.01	23.35	23.25	23.49	24.10	25
100	CP-OFDM 64QAM	1	1	21.60	22.34	22.17	22.47	22.54	23.5
100	CP-OFDM 256QAM	1	1	19.03	19.16	19.03	19.34	19.54	20.5

n66 (1710 ~ 1780 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	24
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	20.52	22.63	22.98	24
40		1	53	22.98	23.18	23.36	
40		1	104	23.32	23.41	23.36	
40		53	1	22.68	22.63	22.90	24
40		53	26	22.81	23.02	23.15	
40		53	52	22.98	23.20	23.31	
40	DFT-s-OFDM QPSK	106	0	22.18	22.15	22.39	24
40		1	1	23.16	23.45	23.21	
40		1	53	23.00	23.34	23.24	
40		1	104	23.35	23.21	23.31	24
40		53	1	23.06	23.27	23.24	
40		53	26	22.78	23.17	23.13	
40	DFT-s-OFDM 16QAM	53	52	23.04	23.12	23.25	22.5
40		106	0	21.63	21.72	21.81	
40	DFT-s-OFDM 64QAM	1	1	21.94	21.79	21.91	21
40	DFT-s-OFDM 256QAM	1	1	19.92	20.29	20.46	19.5
Channel				345000	349000	353000	24
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	22.91	23.16	23.24	24
Channel				344500	349000	353500	24
Frequency (MHz)				1722.5	1745	1767.5	
25	DFT-s-OFDM QPSK	1	1	23.01	23.25	23.31	24
Channel				344000	349000	354000	24
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.04	23.33	23.27	24
Channel				343500	349000	354500	24
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.16	23.40	23.16	24
Channel				343000	349000	355000	24
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.04	23.30	23.08	24
Channel				342500	349000	355500	24
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.18	23.47	23.30	24
Channel				346000	349000	352000	22.5
Frequency (MHz)				1730	1745	1760	
40	CP-OFDM QPSK	1	1	21.32	21.33	21.70	22
40	CP-OFDM 16QAM	1	1	21.04	20.84	21.43	20.5
40	CP-OFDM 64QAM	1	1	19.59	19.63	19.67	17.5
40	CP-OFDM 256QAM	1	1	16.73	16.67	16.86	

n71 (663 ~ 698 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.41	23.44	23.51	24.5
20		1	53	23.47	23.56	23.64	
20		1	104	23.45	23.52	23.57	
20		50	1	22.87	22.98	23.12	24.5
20		50	25	23.50	23.55	23.68	
20		50	50	23.14	23.06	23.27	
20		100	0	22.96	22.99	23.20	
20	DFT-s-OFDM QPSK	1	1	23.52	23.72	23.57	24.5
20		1	53	23.47	23.49	23.52	
20		1	104	23.45	23.52	23.59	
20		50	1	23.44	23.62	23.61	24.5
20		50	25	23.44	23.46	23.51	
20		50	50	22.44	22.54	22.78	
20		100	0	22.47	22.50	22.73	
20	DFT-s-OFDM 16QAM	1	1	22.41	22.36	22.49	23
20	DFT-s-OFDM 64QAM	1	1	20.97	20.89	20.98	21.5
20	DFT-s-OFDM 256QAM	1	1	19.41	19.36	19.47	20
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	DFT-s-OFDM QPSK	1	1	23.42	23.41	23.47	24.5
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	DFT-s-OFDM QPSK	1	1	23.34	23.29	23.35	24.5
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	DFT-s-OFDM QPSK	1	1	23.63	23.47	23.58	24.5
Channel				134600	136100	137600	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	CP-OFDM QPSK	1	1	21.86	21.83	21.99	22.5
20	CP-OFDM 16QAM	1	1	21.44	21.42	21.46	22
20	CP-OFDM 64QAM	1	1	20.07	20.15	20.15	21
20	CP-OFDM 256QAM	1	1	17.30	17.21	17.30	18

n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			26
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.71			26
100		1	136			25.40			
100		1	271			23.99			
100		135	1			24.51			26
100		135	67			25.45			
100		135	136			24.85			
100	DFT-s-OFDM QPSK	270	0			24.88			26
100		1	1			25.47			
100		1	136			25.35			
100		1	271			24.01			26
100		135	1			25.39			
100		135	67			25.36			
100	DFT-s-OFDM 16QAM	135	136			24.04			26
100		270	0			24.19			
100	DFT-s-OFDM 64QAM	1	1			23.74			24.5
100	DFT-s-OFDM 256QAM	1	1			22.39			23
100						20.63			21.5
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.505	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	24.76	24.79	24.83	24.78	24.81	26
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	24.85	24.98	24.82	24.98	24.95	26
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	25.02	24.99	25.12	25.13	25.21	26
Channel				631667	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.005	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	25.15	25.17	25.09	25.21	25.29	26
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	24.90	24.95	25.04	25.03	25.08	26
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	25.21	25.09	25.30	25.31	25.25	26
Channel				630500	631917	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.755	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	25.34	25.12	25.33	25.34	25.23	26
Channel				630334	631834	633334	634833	636333	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.495	3544.995	
10	DFT-s-OFDM QPSK	1	1	25.37	25.23	25.36	25.35	25.24	26
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			23.25			24
100	CP-OFDM 16QAM	1	1			22.66			23.5
100	CP-OFDM 64QAM	1	1			21.53			22.5
100	CP-OFDM 256QAM	1	1			18.62			19.5

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	24.85	24.35	24.31	24.56	24.64	26.5
100		1	136	25.84	25.27	25.25	25.46	25.54	
100		1	271	25.32	24.24	24.12	24.36	24.45	
100		135	1	25.34	24.75	24.57	24.85	24.84	26.5
100		135	67	25.78	25.46	25.23	25.51	25.57	
100		135	136	25.55	24.85	24.50	24.78	24.81	
100	DFT-s-OFDM QPSK	270	0	25.43	24.78	24.51	24.76	24.82	26.5
100		1	1	25.61	25.77	25.93	25.68	25.56	
100		1	136	25.77	25.26	25.25	25.49	25.62	
100		1	271	25.34	24.25	24.13	24.35	24.49	26.5
100		135	1	25.23	25.35	25.56	25.44	25.50	
100		135	67	25.11	25.25	25.26	25.40	25.47	
100	DFT-s-OFDM 16QAM	135	136	23.81	23.98	23.88	23.96	24.20	26.5
100		270	0	24.01	24.06	23.98	24.15	24.10	
100	DFT-s-OFDM 64QAM	1	1	23.05	23.38	23.35	23.56	23.71	24.5
100	DFT-s-OFDM 256QAM	1	1	21.72	22.02	21.98	22.19	22.27	23
100	DFT-s-OFDM 256QAM	1	1	20.55	20.36	20.33	20.54	20.66	21.5
Channel				649667	652834	656000	659166	662333	Tune-up limit (dBm)
Frequency (MHz)				3745.005	3792.51	3840	3887.49	3934.995	
90	DFT-s-OFDM QPSK	1	1	25.08	24.46	24.49	24.71	24.71	26.5
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790	3840	3890	3940	
80	DFT-s-OFDM QPSK	1	1	25.53	24.64	24.68	24.87	24.95	26.5
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730	3785	3840	3895	3950	
60	DFT-s-OFDM QPSK	1	1	25.33	24.83	24.98	24.93	25.09	26.5
Channel				648334	652167	656000	659833	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.505	3840	3897.495	3954.99	
50	DFT-s-OFDM QPSK	1	1	25.57	24.58	24.80	25.21	25.15	26.5
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	25.33	24.50	24.81	24.81	24.77	26.5
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710	3775	3840	3905	3970	
20	DFT-s-OFDM QPSK	1	1	25.65	25.12	25.13	25.22	25.15	26.5
Channel				647167	651584	656000	660416	664833	Tune-up limit (dBm)
Frequency (MHz)				3707.505	3773.76	3840	3906.24	3972.495	
15	DFT-s-OFDM QPSK	1	1	25.78	25.07	25.19	25.28	25.20	26.5
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	25.75	25.14	25.20	25.30	25.41	26.5
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	22.43	22.99	22.93	23.07	23.17	24
100	CP-OFDM 16QAM	1	1	21.80	22.34	22.37	22.47	22.62	23.5
100	CP-OFDM 64QAM	1	1	20.29	20.87	20.83	20.99	21.08	22
100	CP-OFDM 256QAM	1	1	17.74	18.34	18.34	18.48	18.55	19.5

n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			26
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.77			26
100		1	136			25.37			
100		1	271			24.15			
100		135	1			24.94			26
100		135	67			25.38			
100		135	136			24.73			
100	DFT-s-OFDM QPSK	270	0			24.84			26
100		1	1			25.45			
100		1	136			24.36			
100		1	271			24.19			26
100		135	1			25.37			
100		135	67			25.35			
100	DFT-s-OFDM 16QAM	135	136			24.13			26
100		270	0			24.33			
100	DFT-s-OFDM 64QAM	1	1			23.76			24.5
100	DFT-s-OFDM 256QAM	1	1			22.34			23
100						20.45			21
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.505	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	24.90	24.98	24.95	24.81	25.03	26
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	25.21	25.00	25.15	25.04	25.15	26
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	25.14	25.38	25.23	25.38	25.40	26
Channel				631667	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.005	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	25.24	25.32	25.39	25.32	25.42	26
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	24.94	24.73	25.17	25.28	25.23	26
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	25.19	25.26	25.45	25.48	25.40	26
Channel				630500	631917	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.755	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	25.30	25.37	25.41	25.47	25.36	26
Channel				630334	631834	633334	634833	636333	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.495	3544.995	
10	DFT-s-OFDM QPSK	1	1	25.42	25.37	25.47	25.44	25.42	26
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			23.41			24
100	CP-OFDM 16QAM	1	1			22.79			23.5
100	CP-OFDM 64QAM	1	1			22.02			23
100	CP-OFDM 256QAM	1	1			18.46			19

n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			24.02			26.5
100		1	136			25.46			
100		1	271			24.46			
100		135	1			24.57			26.5
100		135	67			25.37			
100		135	136			24.69			
100	DFT-s-OFDM QPSK	270	0			24.59			26.5
100		1	1			25.65			
100		1	136			25.39			
100		1	271			24.44			26.5
100		135	1			25.10			
100		135	67			25.07			
100	DFT-s-OFDM 16QAM	135	136			24.16			24
100		270	0			24.00			
100	DFT-s-OFDM 64QAM	1	1			23.01			22.5
100	DFT-s-OFDM 256QAM	1	1			21.66			20.5
Channel				649667	649834	650000	650166	650333	Tune-up limit (dBm)
Frequency (MHz)				3745.005	3747.51	3750	3752.49	3754.995	
90	DFT-s-OFDM QPSK	1	1	24.24	24.16	24.25	24.19	24.56	26.5
Channel				649334	649667	650000	650333	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3745.005	3750	3754.995	3759.99	
80	DFT-s-OFDM QPSK	1	1	24.39	24.40	24.44	24.48	24.93	26.5
Channel				648667	649334	650000	650666	651333	Tune-up limit (dBm)
Frequency (MHz)				3730.005	3740.01	3750	3759.99	3769.995	
60	DFT-s-OFDM QPSK	1	1	24.61	24.61	24.81	24.84	25.21	26.5
Channel				648334	649167	650000	650833	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.505	3750	3762.495	3774.99	
50	DFT-s-OFDM QPSK	1	1	24.47	24.84	24.91	25.08	25.34	26.5
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	20.87	24.53	24.77	24.83	25.28	26.5
Channel				647334	648667	650000	651333	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3730.005	3750	3769.995	3789.99	
20	DFT-s-OFDM QPSK	1	1	24.75	24.99	25.19	25.15	25.51	26.5
Channel				647167	648584	650000	651416	652833	Tune-up limit (dBm)
Frequency (MHz)				3707.505	3728.76	3750	3771.24	3792.495	
15	DFT-s-OFDM QPSK	1	1	24.74	25.02	25.23	25.16	25.57	26.5
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	24.60	25.06	25.24	24.39	25.71	26.5
Channel						650000			Tune-up limit (dBm)
Frequency (MHz)						3750			
100	CP-OFDM QPSK	1	1			22.49			23
100	CP-OFDM 16QAM	1	1			21.88			22.5
100	CP-OFDM 64QAM	1	1			20.41			21
100	CP-OFDM 256QAM	1	1			17.86			18.5

2CC LTE Downlink												
Configure	CA Configuration	PCC				SCC				Power		
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
	CA_7C	7	20	21050	2530.0	QPSK/1#0	7	20	21248	2549.8	22.51	22.69
	CA_7A-7A	7	10	20800	2505.0	QPSK/1#0	7	10	21400	2565.0	22.53	22.69
	CA_66A-66A	66	20	132072	1720.0	QPSK/1#0	66	20	67036	2170.0	22.54	22.82
	CA_66C	66	20	132323	1745.1	QPSK/1#0	66	20	66985	2164.9	22.72	22.82
	CA_5B	5	10	20501	834.1	QPSK/1#0	5	10	20600	844	22.53	22.88
	CA_66B	66	10	132523	1765.1	QPSK/1#0	66	10	132622	1775	22.36	22.82
	CA_2A_2A	2	20	18700	1860.0	QPSK/1#0	2	20	19100	1900.0	22.64	22.85
	CA_2A-4A	2	20	18700	1860.0	QPSK/1#0	4	20	20300	1745.0	22.67	22.85
	CA_2A-5A	2	20	18700	1860.0	QPSK/1#0	5	10	20600	844.0	22.66	22.85
	CA_2A-12A	2	20	18700	1860.0	QPSK/1#0	12	5	23155	713.5	22.45	22.85
	CA_2A-13A	2	20	18700	1860.0	QPSK/1#0	13	10	23230	782.0	22.60	22.85
	CA_2A-14A	2	20	18700	1860.0	QPSK/1#0	14	10	23330	793.0	22.58	22.85
	CA_2A-29A	2	20	18700	1860.0	QPSK/1#0	29	10	9720	723.0	22.62	22.85
	CA_2A-66A	2	20	18700	1860.0	QPSK/1#0	66	20	67236	2190.0	22.60	22.85
	CA_2A-71A	2	20	18700	1860.0	QPSK/1#0	71	20	133372	688.0	22.65	22.85
	CA_5A-5A	5	10	20450	829.0	QPSK/1#0	5	10	20575	841.5	22.53	22.88
	CA_5A-7A	5	10	20450	829.0	QPSK/1#0	7	20	21350	2560.0	22.60	22.88
	CA_5A-30A	5	10	20450	829.0	QPSK/1#0	30	10	27710	2310.0	22.51	22.88
	CA_5A-66A	5	10	20450	829.0	QPSK/1#0	66	20	67236	2190.0	22.38	22.88
	CA_7A-12A	7	20	20850	2510.0	QPSK/1#0	12	5	23155	713.5	22.28	22.69
	CA_7A-71A	7	20	20850	2510.0	QPSK/1#0	71	20	133372	688.0	22.31	22.69
	CA_12A-66A	12	5	23035	701.5	QPSK/1#0	66	20	67236	2190.0	22.21	22.73
	CA_13A-66A	13	10	23230	782.0	QPSK/1#0	66	20	67236	2190.0	22.31	22.72
	CA_14A-66A	14	10	23330	793.0	QPSK/1#0	66	20	67236	2190.0	22.45	22.84
	CA_25A-25A	25	20	26140	1860.0	QPSK/1#0	25	20	26590	1905.0	22.70	22.93
	CA_25A-66A	25	20	26140	1860.0	QPSK/1#0	66	20	67236	2190.0	22.82	22.93
	CA_66A-71A	66	20	132072	1720.0	QPSK/1#0	71	20	133372	688.0	22.33	22.82

2.4GHz WLAN ANT 7

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Level	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	18.72	17.00	18.00	100.00
	CH 6	2437	18.96	17.00	18.00	
	CH 11	2462	18.53	17.00	18.00	
802.11g 54Mbps	CH 1	2412	16.02	16.50	20.00	100.00
	CH 6	2437	15.83	16.50	20.00	
	CH 11	2462	15.66	16.50	20.00	
802.11n-HT20 MCS0	CH 1	2412	15.79	16.50	20.00	100.00
	CH 6	2437	15.62	16.50	20.00	
	CH 11	2462	15.47	16.50	20.00	
802.11n-HT40 MCS0	CH 3	2422	9.18	10.00	15.00	100.00
	CH 6	2437	8.96	10.00	15.00	
	CH 9	2452	8.85	10.00	15.00	
802.11n-HT20 MCS9 (RL242)	CH 1	2412	12.76	13.50	17.00	100.00
	CH 6	2437	12.47	13.50	17.00	
	CH 11	2462	12.59	13.50	17.00	
802.11n-HEW20 MCS0 (RL20)	CH 6	2437	14.29	15.00	default	100.00
	CH 11	2462	14.65	15.00	default	
	CH 1	2412	14.54	15.00	default	
802.11n-HEW20 MCS9 (RL22)	CH 6	2437	14.33	15.00	default	100.00
	CH 11	2462	14.82	15.00	default	
	CH 1	2412	13.95	14.00	default	
802.11n-HEW20 MCS9 (RL108)	CH 6	2437	13.72	14.50	default	100.00
	CH 3	2422	8.01	10.00	15.00	
	CH 9	2452	8.08	10.00	15.00	
802.11n-HEW40 MCS0	CH 6	2437	9.08	10.00	15.00	100.00
	CH 9	2452	9.45	10.00	15.00	
	CH 3	2422	8.01	10.00	15.00	

5GHz WLAN ANT 7

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Level	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	11.90	12.50	17.00	100.00
	CH 44	5200	12.00	12.50	17.00	
	CH 48	5240	12.08	12.50	17.00	
802.11n-HT20 MCS0	CH 36	5180	9.79	10.50	15.00	100.00
	CH 44	5200	9.85	10.50	15.00	
	CH 48	5240	10.00	10.50	15.00	
802.11n-HT40 MCS0	CH 36	5180	5.51	6.50	12.00	100.00
	CH 44	5200	5.60	6.50	12.00	
	CH 48	5240	5.60	6.50	12.00	
802.11ac-VHT20 MCS0	CH 36	5180	9.79	10.50	15.00	100.00
	CH 44	5200	10.10	11.00	15.00	
	CH 48	5240	10.10	11.00	15.00	
802.11ac-VHT40 MCS0	CH 36	5180	11.49	12.00	18.00	100.00
	CH 44	5200	11.55	12.00	18.00	
	CH 48	5240	11.55	12.00	18.00	
802.11ac-VHT80 MCS0 (RL242)	CH 42	5210	3.78	4.50	12.00	100.00
	CH 36	5180	8.92	10.50	15.00	
	CH 44	5200	9.76	10.50	15.00	
802.11n-HEW20 MCS0 (RL20)	CH 48	5240	9.62	10.50	15.00	100.00
	CH 36	5180	8.22	7.00	9.00	
	CH 44	5200	8.33	7.00	9.00	
802.11n-HEW20 MCS9 (RL28)	CH 48	5240	8.41	8.00	9.00	100.00
	CH 36	5180	8.41	8.00	11.00	
	CH 44	5200	8.54	8.00	11.00	
802.11n-HEW20 MCS9 (RL108)	CH 48	5240	8.49	8.00	11.00	100.00
	CH 36	5180	10.78	11.50	14.00	
	CH 44	5200	10.52	11.50	14.00	
802.11n-HEW40 MCS0	CH 48	5240	10.86	11.50	14.00	100.00
	CH 36	5180	10.01	11.00	17.00	
	CH 44	5200	10.11	11.00	17.00	
802.11n-HEW80 MCS0	CH 42	5210	4.13	5.00	13.00	100.00
	CH 36	5180	10.01	11.00	17.00	
	CH 44	5200	10.11	11.00	17.00	

5GHz WLAN ANT 7

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Level	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 149	5745	13.00	14.50	default	100.00
	CH 157	5785	13.53	14.50	default	
	CH 165	5825	14.01	15.00	default	
802.11n-HT20 MCS0	CH 149	5745	13.50	13.00	default	100.00
	CH 157	5785	12.54	13.00	default	
	CH 165	5825	13.10	14.00	default	
802.11n-HT40 MCS0	CH 151	5755	10.10	11.00	default	100.00
	CH 159	5795	10.10	11.00	default	
	CH 169	5745	12.51	13.50	default	
802.11ac-VHT20 MCS0	CH 157	5785	12.53	13.50	default	100.00
	CH 165	5825	12.59	13.50	default	
	CH 151	5755	10.07	11.00	default	
802.11ac-VHT40 MCS0	CH 159	5795	10.30	11.00	default	100.00
	CH 169	5745	12.51	13.50	default	
	CH 155	5775	8.33	9.00	default	
802.11n-HEW20 MCS0 (RL242)	CH 149	5745	12.51	13.50	default	100.00
	CH 157	5785	12.41	13.00	default	
	CH 165	5825	13.03	14.00	default	
802.11n-HEW20 MCS9 (RL28)	CH 149	5745	11.12	12.00	default	100.00
	CH 157	5785	11.00	12.00	default	
	CH 165	5825	10.95	11.50	default	
802.11n-HEW20 MCS9 (RL22)	CH 149	5745	17.25	17.50	default	100.00
	CH 157	5785	16.99	17.50	default	
	CH 165	5825	17.38	17.50	default	
802.11n-HEW20 MCS9 (RL108)	CH 149	5745	16.91	17.50	default	100.00
	CH 157	5785	17.02	18.00	default	
	CH 165	5825	17.15	18.00	default	
802.11n-HEW40 MCS0	CH 151	5755	8.85	10.00	default	100.00
	CH 159	5795	10.02	11.00	default	
	CH 155	5775	7.95	8.50	default	

2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Level	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	13.63	16.50	18.00	100.00
	CH 6	2437	8.42	10.00	15.00	
	CH 11	2462	16.53	16.50	18.00	
802.11g 54Mbps	CH 1	2412	14.39	15.50	20.00	100.00
	CH 6	2437	15.31	16.00	20.00	
	CH 11	2462	14.33	15.50	20.00	
802.11n-HT20 MCS0	CH 1	2412	14.39	15.50	20.00	100.00
	CH 6	2437	14.99	15.50	20.00	
	CH 11	2462	14.51	15.50	20.00	
802.11n-HT40 MCS0	CH 3	2422	8.21	9.00	15.00	100.00
	CH 6	2437	8.42	9.00	15.00	
	CH 9	2452	8.21	9.00	15.00	
802.11n-HEW20 MCS0 (RL242)	CH 1	2412	11.15	12.00	17.00	100.00
	CH 6	2437	11.82	12.50	17.00	
	CH 11	2462	11.67	12.50	17.00	
802.11n-HEW20 MCS9 (RL28)	CH 6	2437	13.64	14.50	default	100.00
	CH 11	2462	13.46	14.00	default	
	CH 1	2412	12.98	13.50	default	
802.11n-HEW20 MCS9 (RL22)	CH 6	2437	13.76	14.50	default	100.00
	CH 3	2422	8.13	9.00	15.00	
	CH 9	2452	8.41	9.00	15.00	
802.11n-HEW20 MCS9 (RL108)	CH 1	2412	12.32	13.00	default	100.00
	CH 6	2437	13.15	14.00	default	
	CH 11	2462	12.52	13.00	default	
802.11n-HEW40 MCS0	CH 3	2422	8.13	9.00	15.00	100.00
	CH 6	2437	8.41	9.00	15.00	
	CH 9	2452	8.45	9.00	15.00	

5.2GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Level	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	10.83	11.50	17.00	100.00
	CH 44	5200	11.31	12.00	17.00	
	CH 48	5240	11.46	12.00	17.00	
802.11n-HT20 MCS0	CH 36	5180	9.50	10.00	16.00	100.00
	CH 44	5200	10.14	11.00	16.00	
	CH 48	5240	10.21	11.00	16.00	
802.11n-HT40 MCS0	CH 36	5180	4.59	5.50	12.00	100.00
	CH 48	5230	4.56	5.50	12.00	
	CH 36	5180	9.39	10.00	16.00	
802.11ac-VHT20 MCS0	CH 44	5200	10.26	11.00	16.00	100.00
	CH 48	5240	10.06	10.50	16.00	
	CH 36	5180	11.33	12.00	default	
802.11n-VHT40 MCS0	CH 48	5230	11.74	12.00	default	100.00
	CH 42	5210	3.94	4.50	12.00	
	CH 36	5180	9.25	10.00	16.00	
802.11n-HEW20 MCS0 (RL242)	CH 44	5200	9.81	10.50	16.00	100.00
	CH 48	5240	10.01	11.00	16.00	
	CH 36	5180	5.78	6.50	10.00	
802.11n-HEW20 MCS9 (RL28)	CH 44	5200	6.41	7.00	10.00	100.00
	CH 48	5240	6.93	7.00	10.00	
	CH 36	5180	8.37	9.00	12.00	
802.11n-HEW20 MCS9 (RL22)	CH 44	5200	6.96	9.00	12.00	100.00
	CH 48	5240	8.31	10.00	12.00	
	CH 36	5180	10.38	11.00	16.00	
802.11n-HEW20 MCS9 (RL108)	CH 44	5200	11.30	12.00	16.00	100.00
	CH 48	5240	11.25	12.00	16.00	
	CH 36	5180	9.44	10.00	17.00	
802.11n-HEW40 MCS0	CH 48	5230	9.68	10.50	17.00	100.00
	CH 42	5210	4.07	5.00	13.00	
	CH 36	5180	9.44	10.00	17.00	

Reduced Power Level 1 for Ant 0 & Ant 2 & Ant 3

Band 30 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		17.55		18
10	QPSK	1	25		17.45		
10	QPSK	1	49		17.38		
10	QPSK	25	0		16.61		17
10	QPSK	25	12		16.56		
10	QPSK	25	25		16.50		
10	QPSK	50	0		16.53		17
10	16QAM	1	0		16.62		
10	16QAM	1	25		16.55		
10	16QAM	1	49		16.48		16
10	16QAM	25	0		15.75		
10	16QAM	25	12		15.66		
10	16QAM	25	25		15.68		17
10	16QAM	50	0		15.64		
10	64QAM	1	0		16.56		
10	64QAM	1	25		16.46		16
10	64QAM	1	49		16.47		
10	64QAM	25	0		15.71		
10	64QAM	25	12		15.62		16
10	64QAM	25	25		15.65		
10	64QAM	50	0		15.58		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	17.13	17.28	17.25	18
5	QPSK	1	12	17.27	17.21	17.21	
5	QPSK	1	24	17.18	17.24	17.19	
5	QPSK	12	0	16.48	16.30	16.25	17
5	QPSK	12	7	16.01	16.41	16.23	
5	QPSK	12	13	16.05	16.29	16.21	
5	QPSK	25	0	16.40	16.18	16.32	17
5	16QAM	1	0	16.24	16.28	16.34	
5	16QAM	1	12	16.30	16.14	16.10	
5	16QAM	1	24	16.25	16.12	16.31	16
5	16QAM	12	0	15.12	15.28	15.30	
5	16QAM	12	7	15.21	15.10	15.22	
5	16QAM	12	13	15.20	15.24	15.09	17
5	16QAM	25	0	15.07	15.10	15.14	
5	64QAM	1	0	16.14	16.28	16.30	
5	64QAM	1	12	16.21	16.12	16.12	16
5	64QAM	1	24	16.06	16.07	16.20	
5	64QAM	12	0	15.11	15.29	15.30	
5	64QAM	12	7	15.02	15.26	15.41	16
5	64QAM	12	13	15.06	15.08	15.31	
5	64QAM	25	0	15.08	15.17	15.23	

Band 41 P2 (2496~2690MHz) (dBm)											
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)		
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	18.11	18.18	18.30	18.24	18.16	19		
20	QPSK	1	49	18.17	18.19	18.27	18.17	18.11			
20	QPSK	1	99	18.16	18.13	18.16	18.15	18.10			
20	QPSK	50	0	17.15	17.27	17.32	17.19	17.24			
20	QPSK	50	24	17.10	17.13	17.16	17.06	17.26	18		
20	QPSK	50	50	17.23	17.19	17.22	17.18	17.09			
20	QPSK	100	0	16.97	17.15	17.13	17.14	17.26			
20	16QAM	1	0	17.18	17.23	17.29	17.25	17.21			
20	16QAM	1	49	17.09	17.17	17.22	17.21	17.24	18		
20	16QAM	1	99	17.02	17.13	17.16	17.10	17.10			
20	16QAM	50	0	16.34	16.26	16.33	16.21	16.23			
20	16QAM	50	24	16.21	16.20	16.25	16.16	16.06			
20	16QAM	50	50	16.02	16.11	16.17	16.22	16.16	17		
20	16QAM	100	0	16.34	16.18	16.20	16.14	16.25			
20	64QAM	1	0	17.34	17.14	17.13	17.16	17.06			
20	64QAM	1	49	16.96	17.06	17.10	17.08	17.15			
20	64QAM	1	99	17.20	17.04	17.01	17.03	17.15	17		
20	64QAM	50	0	16.26	16.18	16.21	16.17	16.20			
20	64QAM	50	24	16.05	16.07	16.10	16.18	16.02			
20	64QAM	50	50	16.14	16.01	16.07	16.06	15.96			
20	64QAM	100	0	16.25	16.13	16.08	16.04	16.14			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	17.92	17.93	18.16	18.11	18.06	19		
15	QPSK	1	37	18.13	17.98	17.98	18.15	17.95			
15	QPSK	1	74	17.95	17.92	17.95	18.07	18.03			
15	QPSK	36	0	17.17	17.07	16.91	17.13	16.90			
15	QPSK	36	20	16.93	16.87	17.09	16.88	16.97	18		
15	QPSK	36	39	17.21	16.99	17.27	17.18	17.22			
15	QPSK	75	0	17.23	17.17	17.08	17.20	17.18			
15	16QAM	1	0	17.32	16.96	17.16	17.21	17.12			
15	16QAM	1	37	16.90	17.23	16.94	17.00	17.23	18		
15	16QAM	1	74	16.98	16.98	17.07	16.93	17.02			
15	16QAM	36	0	16.18	16.12	16.32	16.24	16.10			
15	16QAM	36	20	15.95	15.91	15.96	16.01	15.97			
15	16QAM	36	39	16.00	16.17	16.07	16.24	16.09	17		
15	16QAM	75	0	16.10	16.09	16.22	16.03	16.13			
15	64QAM	1	0	16.88	17.16	17.08	17.13	16.93			
15	64QAM	1	37	17.11	17.15	16.91	16.89	17.14			
15	64QAM	1	74	17.13	17.14	16.92	16.83	16.98	18		
15	64QAM	36	0	15.96	16.11	16.10	16.09	16.04			
15	64QAM	36	20	15.82	16.07	16.02	16.04	16.13			
15	64QAM	36	39	15.87	15.96	16.06	15.96	15.83			
15	64QAM	75	0	15.94	16.03	15.94	15.83	15.85			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)		
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	18.08	18.10	18.17	18.13	18.02	19		
10	QPSK	1	25	18.01	18.01	18.12	18.12	18.00			
10	QPSK	1	49	18.14	18.15	18.13	18.07	17.95			
10	QPSK	25	0	17.11	17.18	17.27	17.22	17.11			
10	QPSK	25	12	17.05	17.05	17.03	17.13	16.99	18		
10	QPSK	25	25	16.98	17.22	17.05	16.94	16.88			
10	QPSK	50	0	17.09	17.00	17.00	16.97	16.86			
10	16QAM	1	0	17.13	17.04	17.10	17.02	17.21			
10	16QAM	1	25	17.12	17.08	17.12	17.01	17.11	18		
10	16QAM	1	49	16.95	17.12	17.07	17.08	16.94			
10	16QAM	25	0	16.18	16.19	16.23	16.04	15.93			
10	16QAM	25	12	16.26	16.25	16.29	16.25	16.15			
10	16QAM	25	25	15.89	16.01	16.16	15.99	16.18	17		
10	16QAM	50	0	16.17	16.08	16.19	16.23	16.23			
10	64QAM	1	0	17.13	17.11	17.15	17.14	17.25			
10	64QAM	1	25	16.92	17.08	17.18	17.05	16.86			
10	64QAM	1	49	17.08	17.09	17.01	16.79	16.88	18		
10	64QAM	25	0	16.06	16.03	16.07	16.06	16.23			
10	64QAM	25	12	15.93	16.17	16.10	16.04	16.12			
10	64QAM	25	25	15.87	15.95	16.05	16.10	15.81			
10	64QAM	50	0	15.94	15.95	15.89	15.96	16.06			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	18.04	18.13	18.14	18.08	18.05	19		
5	QPSK	1	12	18.12	18.02	18.08	18.12	17.97			
5	QPSK	1	24	18.02	17.91	18.10	17.99	18.10			
5	QPSK	12	0	17.30	17.31	17.23	17.09	17.18			
5	QPSK	12	7	17.00	17.02	17.09	16.98	17.06	18		
5	QPSK	12	13	17.12	17.07	17.26	16.94	17.11			
5	QPSK	25	0	17.20	16.98	17.04	17.16	17.13			
5	16QAM	1	0	17.14	16.99	17.06	17.31	17.08			
5	16QAM	1	12	16.91	17.24	16.93	16.91	17.03	18		
5	16QAM	1	24	16.95	17.16	17.23	17.18	16.91			
5	16QAM	12	0	16.19	15.98	16.03	16.15	16.07			
5	16QAM	12	7	16.19	16.26	16.13	16.12	16.04			
5	16QAM	12	13	15.91	15.92	16.12	16.31	16.13	17		
5	16QAM	25	0	15.95	16.19	15.95	15.89	15.95			
5	64QAM	1	0	16.97	16.99	17.11	16.96	16.96			
5	64QAM	1	12	17.15	16.84	16.83	16.97	16.80			
5	64QAM	1	24	17.12	17.03	17.04	17.11	16.79	18		
5	64QAM	12	0	16.05	16.08	16.20	15.96	16.22			
5	64QAM	12	7	15.80	15.85	16.07	16.18	15.89			
5	64QAM	12	13	16.04	15.85	15.71	15.90	15.79			
5	64QAM	25	0	16.01	16.08	16.14	15.88	15.98			

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	DFT-s-OFDM P/2 BPSK	1	1	20.08	20.33	20.22	20.67	20.68	22.5
100		1	136	20.84	21.89	21.51	21.94	21.68	
100		1	272	18.20	18.21	18.26	18.42	18.16	
100		135	1	20.02	20.81	20.98	21.15	21.31	22.5
100		135	67	20.62	21.04	21.65	21.93	21.63	
100		135	136	20.10	21.03	21.39	21.47	21.51	
100	DFT-s-OFDM QPSK	270	0	20.09	20.94	21.16	21.30	21.35	22.5
100		1	1	21.66	21.51	21.95	21.50	21.44	
100		1	136	20.89	21.75	21.35	21.76	21.65	
100		1	272	18.07	18.16	18.28	18.39	18.18	22.5
100		135	1	21.06	21.33	21.86	21.71	21.76	
100		135	67	20.63	21.38	21.66	21.76	21.81	
100	DFT-s-OFDM 16QAM	1	1	20.02	20.80	20.89	20.97	21.00	20.5
100		270	0	20.01	20.45	20.66	20.77	20.87	
100	DFT-s-OFDM 64QAM	1	1	19.03	19.22	19.13	19.75	19.75	19.5
100	DFT-s-OFDM 256QAM	1	1	17.69	18.02	18.06	18.51	18.73	17.5
Channel				508200	513399	518598	523797	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM QPSK	1	1	19.57	20.45	20.44	21.04	20.92	22.5
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2564.51	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	19.89	20.63	20.67	20.10	21.25	22.5
Channel				505200	511902	518598	525300	531996	Tune-up limit (dBm)
Frequency (MHz)				2526.00	2559.50	2592.99	2626.49	2659.98	
60	DFT-s-OFDM QPSK	1	1	20.14	20.91	21.25	21.33	21.56	22.5
Channel				504204	511401	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2557.005	2592.99	2628.99	2664.99	
50	DFT-s-OFDM QPSK	1	1	20.31	21.01	21.53	21.55	21.62	22.5
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2554.50	2592.99	2631.50	2670.00	
40	DFT-s-OFDM QPSK	1	1	19.88	20.72	21.33	21.40	21.50	22.5
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511.00	2552.00	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	20.27	20.89	21.39	21.59	21.80	22.5
Channel				501204	509901	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2549.505	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	20.24	21.05	21.69	21.79	21.33	22.5
Channel				500700	509649	518598	527547	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.245	2592.99	2637.735	2682.48	
15	DFT-s-OFDM QPSK	1	1	20.47	21.12	21.33	21.64	21.70	22.5
Channel				500202	509400	518598	527799	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2547	2592.99	2638.995	2685	
10	DFT-s-OFDM QPSK	1	1	20.43	21.19	21.71	21.69	21.93	22.5
Channel				509202	513900	518598	523296	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	CP-OFDM QPSK	1	1	18.49	18.93	18.71	19.02	19.36	20
100	CP-OFDM 16QAM	1	1	18.01	18.35	18.25	18.49	19.10	20
100	CP-OFDM 64QAM	1	1	16.60	17.34	17.17	17.47	17.54	18.5
100	CP-OFDM 256QAM	1	1	14.03	14.16	14.03	14.34	14.54	15.5

n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			20.21			21.5
100		1	136			20.90			
100		1	271			19.49			
100		135	1			20.01			21.5
100		135	67			20.95			
100		135	136			20.35			
100	DFT-s-OFDM QPSK	270	0			20.38			21.5
100		1	1			20.97			
100		1	136			20.85			
100		1	271			19.51			21.5
100		135	1			20.89			
100		135	67			20.86			
100		135	136			19.54			
100		270	0			19.69			
100	DFT-s-OFDM 16QAM	1	1			19.24			20
100	DFT-s-OFDM 64QAM	1	1			17.89			18.5
100	DFT-s-OFDM 256QAM	1	1			16.13			17
Channel				633000	633167	633334	633500	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3497.505	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	20.26	20.29	20.33	20.28	20.31	21.5
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	20.35	20.48	20.32	20.48	20.45	21.5
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	20.52	20.49	20.62	20.63	20.71	21.5
Channel				631667	632500	633334	634166	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.005	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	20.65	20.67	20.59	20.71	20.79	21.5
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	20.40	20.45	20.54	20.53	20.58	21.5
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	20.71	20.59	20.80	20.81	20.75	21.5
Channel				630500	631917	633334	634750	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3478.755	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	20.84	20.62	20.83	20.84	20.73	21.5
Channel				630334	631834	633334	634833	636333	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3477.51	3500.01	3522.495	3544.995	
10	DFT-s-OFDM QPSK	1	1	20.87	20.73	20.86	20.85	20.74	21.5
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			18.75			19.5
100	CP-OFDM 16QAM	1	1			18.16			19
100	CP-OFDM 64QAM	1	1			17.03			18
100	CP-OFDM 256QAM	1	1			14.12			15

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.85	19.35	19.31	19.56	19.64	21.5
100		1	136	20.84	20.27	20.25	20.46	20.54	
100		1	271	20.32	19.24	19.12	19.36	19.45	
100		135	1	20.34	19.75	19.57	19.85	19.84	21.5
100		135	67	20.78	20.46	20.23	20.51	20.57	
100		135	136	20.55	19.85	19.50	19.78	19.81	
100	DFT-s-OFDM QPSK	270	0	20.43	19.78	19.51	19.76	19.82	21.5
100		1	1	20.61	20.77	20.93	20.68	20.56	
100		1	136	20.77	20.26	20.25	20.49	20.62	
100		1	271	20.34	19.25	19.13	19.35	19.49	21.5
100		135	1	20.23	20.35	20.56	20.44	20.50	
100		135	67	20.11	20.25	20.26	20.40	20.47	
100	DFT-s-OFDM 16QAM	135	136	18.81	18.98	18.88	18.96	19.20	21.5
100		270	0	19.01	19.06	18.98	19.15	19.10	
100	DFT-s-OFDM 64QAM	1	1	18.05	18.38	18.35	18.56	18.71	19.5
100	DFT-s-OFDM 256QAM	1	1	16.72	17.02	16.98	17.19	17.27	18
100	DFT-s-OFDM 256QAM	1	1	15.55	15.36	15.33	15.54	15.66	16.5
Channel				649667	652834	656000	659166	662333	Tune-up limit (dBm)
Frequency (MHz)				3745.005	3792.51	3840	3887.49	3934.995	
90	DFT-s-OFDM QPSK	1	1	20.08	19.46	19.49	19.71	19.71	21.5
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790	3840	3890	3940	
80	DFT-s-OFDM QPSK	1	1	20.53	19.64	19.68	19.87	19.95	21.5
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730	3785	3840	3895	3950	
60	DFT-s-OFDM QPSK	1	1	20.33	19.83	19.98	19.93	20.09	21.5
Channel				648334	652167	656000	659833	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.505	3840	3897.495	3954.99	
50	DFT-s-OFDM QPSK	1	1	20.57	19.58	19.80	20.21	20.15	21.5
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	20.33	19.50	19.81	19.81	19.77	21.5
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710	3775	3840	3905	3970	
20	DFT-s-OFDM QPSK	1	1	20.65	20.12	20.13	20.22	20.15	21.5
Channel				647167	651584	656000	660416	664833	Tune-up limit (dBm)
Frequency (MHz)				3707.505	3773.76	3840	3906.24	3972.495	
15	DFT-s-OFDM QPSK	1	1	20.78	20.07	20.19	20.28	20.20	21.5
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	20.75	20.14	20.20	20.30	20.41	21.5
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	17.43	17.99	17.93	18.07	18.17	19
100	CP-OFDM 16QAM	1	1	16.80	17.34	17.37	17.47	17.62	18.5
100	CP-OFDM 64QAM	1	1	15.29	15.87	15.83	15.99	16.08	17
100	CP-OFDM 256QAM	1	1	12.74	13.34	13.34	13.48	13.55	14.5

n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			19.02			21.5
100		1	136			20.46			
100		1	271			19.46			
100		135	1			19.57			21.5
100		135	67			20.37			
100		135	136			19.69			
100	DFT-s-OFDM QPSK	270	0			19.59			21.5
100		1	1			20.65			
100		1	136			20.39			
100		1	271			19.44			21.5
100		135	1			20.10			
100		135	67			20.07			
100		135	136			19.16			
100		270	0			19.00			
100	DFT-s-OFDM 16QAM	1	1			18.01			19
100	DFT-s-OFDM 64QAM	1	1			16.66			17.5
100	DFT-s-OFDM 256QAM	1	1			14.95			15.5
Channel				649667	649834	650000	650166	650333	Tune-up limit (dBm)
Frequency (MHz)				3745.005	3747.51	3750	3752.49	3754.995	
90	DFT-s-OFDM QPSK	1	1	19.24	19.16	19.25	19.19	19.56	21.5
Channel				649334	649667	650000	650333	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3745.005	3750	3754.995	3759.99	
80	DFT-s-OFDM QPSK	1	1	19.39	19.40	19.44	19.48	19.93	21.5
Channel				648667	649334	650000	650666	651333	Tune-up limit (dBm)
Frequency (MHz)				3730.005	3740.01	3750	3759.99	3769.995	
60	DFT-s-OFDM QPSK	1	1	19.61	19.61	19.81	19.84	20.21	21.5
Channel				648334	649167	650000	650833	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3737.505	3750	3762.495	3774.99	
50	DFT-s-OFDM QPSK	1	1	19.47	19.84	19.91	20.08	20.34	21.5
Channel				648000	649000	650000	651000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	15.87	19.53	19.77	19.83	20.28	21.5
Channel				647334	648667	650000	651333	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3730.005	3750	3769.995	3789.99	
20	DFT-s-OFDM QPSK	1	1	19.75	19.99	20.19	20.15	20.51	21.5
Channel				647167	648584	650000	651416	652833	Tune-up limit (dBm)
Frequency (MHz)				3707.505	3728.76	3750	3771.24	3792.495	
15	DFT-s-OFDM QPSK	1	1	19.74	20.02	20.23	20.16	20.57	21.5
Channel				647000	648500	650000	651500	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	19.60	20.06	20.24	19.39	20.71	21.5
Channel						650000			Tune-up limit (dBm)
Frequency (MHz)						3750			
100	CP-OFDM QPSK	1	1			17.49			18
100	CP-OFDM 16QAM	1	1			16.88			17.5
100	CP-OFDM 64QAM	1	1			15.41			16
100	CP-OFDM 256QAM	1	1			12.86			13.5

Reduced power Level 2 for Ant 0 & Ant 2 & Ant 3

Band 2 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.70	18.85	18.76	
20	QPSK	1	49	18.71	18.59	18.69	19.5
20	QPSK	1	99	18.65	18.68	18.63	
20	QPSK	50	0	17.73	17.79	17.71	
20	QPSK	50	24	17.65	17.68	17.58	18.5
20	QPSK	50	50	17.71	17.74	17.70	
20	QPSK	100	0	17.67	17.65	17.66	
20	16QAM	1	0	17.75	17.81	17.77	18.5
20	16QAM	1	49	17.69	17.74	17.73	
20	16QAM	1	99	17.65	17.68	17.62	
20	16QAM	50	0	16.78	16.85	16.73	17.5
20	16QAM	50	24	16.72	16.77	16.68	
20	16QAM	50	50	16.63	16.69	16.74	
20	16QAM	100	0	16.70	16.72	16.66	18.5
20	64QAM	1	0	17.66	17.65	17.68	
20	64QAM	1	49	17.58	17.62	17.60	
20	64QAM	1	99	17.56	17.53	17.55	17.5
20	64QAM	50	0	16.70	16.73	16.69	
20	64QAM	50	24	16.59	16.62	16.70	
20	64QAM	50	50	16.53	16.53	16.58	
20	64QAM	100	0	16.65	16.60	16.56	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.53	18.83	18.76	
15	QPSK	1	37	18.75	18.40	18.81	19.5
15	QPSK	1	74	18.81	18.70	18.74	
15	QPSK	36	0	17.88	17.75	17.82	
15	QPSK	36	20	17.57	17.64	17.43	18.5
15	QPSK	36	39	17.64	17.60	17.60	
15	QPSK	75	0	17.71	17.60	17.55	
15	16QAM	1	0	17.88	17.88	17.60	18.5
15	16QAM	1	37	17.66	17.64	17.79	
15	16QAM	1	74	17.68	17.54	17.45	
15	16QAM	36	0	16.86	16.78	16.53	17.5
15	16QAM	36	20	16.52	16.91	16.58	
15	16QAM	36	39	16.59	16.82	16.55	
15	16QAM	75	0	16.65	16.72	16.73	18.5
15	64QAM	1	0	17.57	17.77	17.51	
15	64QAM	1	37	17.58	17.46	17.50	
15	64QAM	1	74	17.54	17.46	17.64	17.5
15	64QAM	36	0	16.64	16.78	16.63	
15	64QAM	36	20	16.71	16.81	16.88	
15	64QAM	36	39	16.53	16.69	16.67	
15	64QAM	75	0	16.75	16.76	16.45	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.77	18.82	18.76	
10	QPSK	1	25	18.72	18.66	18.57	19.5
10	QPSK	1	49	18.55	18.60	18.80	
10	QPSK	25	0	17.84	17.87	17.54	
10	QPSK	25	12	17.77	17.59	17.45	18.5
10	QPSK	25	25	17.76	17.54	17.85	
10	QPSK	50	0	17.84	17.59	17.73	
10	16QAM	1	0	17.94	17.82	17.93	18.5
10	16QAM	1	25	17.89	17.90	17.76	
10	16QAM	1	49	17.82	17.60	17.55	
10	16QAM	25	0	16.90	16.78	16.66	17.5
10	16QAM	25	12	16.91	16.57	16.49	
10	16QAM	25	25	16.81	16.86	16.71	
10	16QAM	50	0	16.67	16.56	16.61	18.5
10	64QAM	1	0	17.79	17.83	17.72	
10	64QAM	1	25	17.66	17.80	17.73	
10	64QAM	1	49	17.45	17.49	17.54	17.5
10	64QAM	25	0	16.79	16.79	16.85	
10	64QAM	25	12	16.52	16.47	16.57	
10	64QAM	25	25	16.73	16.54	16.49	
10	64QAM	50	0	16.61	16.45	16.73	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.64	18.81	18.58	
5	QPSK	1	12	18.54	18.79	18.68	19.5
5	QPSK	1	24	18.80	18.55	18.63	
5	QPSK	12	0	17.60	17.86	17.87	
5	QPSK	12	7	17.59	17.72	17.53	18.5
5	QPSK	12	13	17.91	17.65	17.73	
5	QPSK	25	0	17.81	17.52	17.59	
5	16QAM	1	0	17.94	17.81	17.59	18.5
5	16QAM	1	12	17.59	17.57	17.76	
5	16QAM	1	24	17.47	17.70	17.70	
5	16QAM	12	0	16.91	16.88	16.64	17.5
5	16QAM	12	7	16.84	16.65	16.48	
5	16QAM	12	13	16.83	16.76	16.81	
5	16QAM	25	0	16.62	16.66	16.60	18.5
5	64QAM	1	0	17.84	17.48	17.55	
5	64QAM	1	12	17.75	17.74	17.80	
5	64QAM	1	24	17.37	17.71	17.51	17.5
5	64QAM	12	0	16.77	16.89	16.60	
5	64QAM	12	7	16.65	16.58	16.64	
5	64QAM	12	13	16.59	16.53	16.72	
5	64QAM	25	0	16.83	16.79	16.71	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.76	18.83	18.74	

Band 4 (AWS Band) (dBm)							
Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel			20050	20175	20300		
Frequency (MHz)			1720	1732.5	1745		
20	QPSK	1	0	18.68	18.76	18.70	19.5
20	QPSK	1	49	18.57	18.74	18.58	
20	QPSK	1	99	18.49	18.73	18.57	
20	QPSK	50	0	17.75	17.87	17.57	
20	QPSK	50	24	17.72	17.48	17.63	18.5
20	QPSK	50	50	17.73	17.87	17.81	
20	QPSK	100	0	17.82	17.57	17.72	
20	16QAM	1	0	17.59	18.01	17.64	
20	16QAM	1	49	17.51	17.58	17.91	18.5
20	16QAM	1	99	17.60	17.84	17.63	
20	16QAM	50	0	16.81	16.74	16.68	
20	16QAM	50	24	16.92	16.77	16.65	
20	16QAM	50	50	16.57	16.79	16.87	17.5
20	16QAM	100	0	16.56	16.86	16.69	
20	64QAM	1	0	17.81	17.82	17.51	
20	64QAM	1	49	17.41	17.42	17.65	
20	64QAM	1	99	17.60	17.45	17.65	18.5
20	64QAM	50	0	16.60	16.73	16.79	
20	64QAM	50	24	16.48	16.72	16.65	
20	64QAM	50	50	16.70	16.33	16.51	
20	64QAM	100	0	16.52	16.66	16.36	17.5
Channel			20025	20175	20325		
Frequency (MHz)			1717.5	1732.5	1747.5		
15	QPSK	1	0	18.74	18.67	18.68	
15	QPSK	1	37	18.67	18.71	18.69	
15	QPSK	1	74	18.58	18.68	18.63	
15	QPSK	36	0	17.69	17.55	17.54	
15	QPSK	36	20	17.83	17.70	17.72	18.5
15	QPSK	36	39	17.79	17.79	17.79	
15	QPSK	75	0	17.80	17.77	17.59	
15	16QAM	1	0	17.76	17.84	17.89	
15	16QAM	1	37	17.67	17.63	17.61	18.5
15	16QAM	1	74	17.77	17.49	17.58	
15	16QAM	36	0	16.72	16.76	16.87	
15	16QAM	36	20	16.60	16.76	16.52	
15	16QAM	36	39	16.77	16.50	16.55	17.5
15	16QAM	75	0	16.53	16.62	16.56	
15	64QAM	1	0	17.54	17.85	17.77	
15	64QAM	1	37	17.76	17.50	17.42	
15	64QAM	1	74	17.68	17.73	17.40	18.5
15	64QAM	36	0	16.55	16.88	16.70	
15	64QAM	36	20	16.78	16.75	16.64	
15	64QAM	36	39	16.55	16.72	16.52	
15	64QAM	75	0	16.54	16.52	16.67	17.5
Channel			20000	20175	20350		
Frequency (MHz)			1715	1732.5	1750		
10	QPSK	1	0	18.69	18.73	18.65	
10	QPSK	1	25	18.57	18.67	18.71	
10	QPSK	1	49	18.67	18.66	18.53	
10	QPSK	25	0	17.64	17.80	17.56	
10	QPSK	25	12	17.85	17.55	17.66	18.5
10	QPSK	25	25	17.55	17.76	17.60	
10	QPSK	50	0	17.66	17.46	17.57	
10	16QAM	1	0	17.67	17.84	17.72	
10	16QAM	1	25	17.62	17.62	17.63	18.5
10	16QAM	1	49	17.83	17.59	17.75	
10	16QAM	25	0	16.92	16.92	16.88	
10	16QAM	25	12	16.87	16.71	16.72	
10	16QAM	25	25	16.78	16.63	16.64	17.5
10	16QAM	50	0	16.84	16.57	16.49	
10	64QAM	1	0	17.70	17.68	17.57	
10	64QAM	1	25	17.48	17.72	17.59	
10	64QAM	1	49	17.38	17.45	17.68	18.5
10	64QAM	25	0	16.87	16.54	16.63	
10	64QAM	25	12	16.71	16.68	16.81	
10	64QAM	25	25	16.53	16.61	16.49	
10	64QAM	50	0	16.66	16.50	16.36	17.5
Channel			19975	20175	20375		
Frequency (MHz)			1712.5	1732.5	1752.5		
5	QPSK	1	0	18.66	18.72	18.65	
5	QPSK	1	12	18.65	18.69	18.50	
5	QPSK	1	24	18.51	18.60	18.63	
5	QPSK	12	0	17.71	17.55	17.70	
5	QPSK	12	7	17.79	17.54	17.66	18.5
5	QPSK	12	13	17.53	17.56	17.73	
5	QPSK	25	0	17.78	17.70	17.69	
5	16QAM	1	0	17.86	17.78	17.91	
5	16QAM	1	12	17.69	17.71	17.84	18.5
5	16QAM	1	24	17.84	17.56	17.58	
5	16QAM	12	0	16.70	16.71	16.76	
5	16QAM	12	7	16.80	16.81	16.77	
5	16QAM	12	13	16.72	16.86	16.86	17.5
5	16QAM	25	0	16.56	16.53	16.68	
5	64QAM	1	0	17.48	17.55	17.80	
5	64QAM	1	12	17.40	17.73	17.75	
5	64QAM	1	24	17.44	17.39	17.74	18.5
5	64QAM	12	0	16.57	16.84	16.70	
5	64QAM	12	7	16.60	16.49	16.83	
5	64QAM	12	13	16.36	16.44	16.38	
5	64QAM	25	0	16.71	16.61	16.36	17.5
Channel			19965	20175	20385		
Frequency (MHz)			1711.5	1732.5	1753.5		
3	QPSK	1	0	18.61	18.69	18.62	

3	QPSK	1	8	18.64	18.69	18.78	19.5
3	QPSK	1	14	18.68	18.68	18.45	
3	QPSK	8	0	17.81	17.85	17.86	18.5
3	QPSK	8	4	17.65	17.49	17.63	
3	QPSK	8	7	17.58	17.83	17.87	
3	QPSK	15	0	17.63	17.56	17.46	18.5
3	16QAM	1	0	17.75	17.95	17.63	
3	16QAM	1	8	17.78	17.91	17.67	
3	16QAM	1	14	17.57	17.80	17.62	17.5
3	16QAM	8	0	16.86	16.95	16.57	
3	16QAM	8	4	16.85	16.74	16.85	
3	16QAM	8	7	16.55	16.89	16.80	
3	16QAM	15	0	16.73	16.57	16.75	
3	64QAM	1	0	17.70	17.70	17.70	18.5
3	64QAM	1	8	17.65	17.75	17.51	
3	64QAM	1	14	17.53	17.53	17.57	
3	64QAM	8	0	16.75	16.57	16.55	17.5
3	64QAM	8	4	16.59	16.76	16.84	
3	64QAM	8	7	16.34	16.67	16.69	
3	64QAM	15	0	16.61	16.50	16.62	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.77	18.68	18.69	19.5
1.4	QPSK	1	3	18.70	18.53	18.49	
1.4	QPSK	1	5	18.72	18.68	18.45	
1.4	QPSK	3	0	17.96	17.77	17.81	
1.4	QPSK	3	1	17.53	17.87	17.64	
1.4	QPSK	3	3	17.87	17.71	17.79	18.5
1.4	QPSK	6	0	17.63	17.63	17.82	
1.4	16QAM	1	0	17.92	17.80	17.68	18.5
1.4	16QAM	1	3	17.72	17.93	17.81	
1.4	16QAM	1	5	17.60	17.58	17.57	
1.4	16QAM	3	0	16.72	16.78	16.86	
1.4	16QAM	3	1	16.66	16.94	16.81	
1.4	16QAM	3	3	16.70	16.67	16.77	17.5
1.4	16QAM	6	0	16.89	16.59	16.73	
1.4	64QAM	1	0	17.80	17.85	17.50	18.5
1.4	64QAM	1	3	17.68	17.55	17.58	
1.4	64QAM	1	5	17.74	17.54	17.57	
1.4	64QAM	3	0	16.79	16.67	16.56	
1.4	64QAM	3	1	16.65	16.51	16.72	
1.4	64QAM	3	3	16.52	16.53	16.52	
1.4	64QAM	6	0	16.71	16.69	16.42	
1.4	64QAM	6	0	16.71	16.69	16.42	17.5

3	QPSK	1	8	18.54	18.50	18.60	19.5
3	QPSK	1	14	18.61	18.65	18.54	
3	QPSK	8	0	17.83	17.79	17.74	18.5
3	QPSK	8	4	17.76	17.68	17.46	
3	QPSK	8	7	17.55	17.75	17.56	
3	QPSK	15	0	17.72	17.50	17.57	18.5
3	16QAM	1	0	17.82	17.86	17.86	
3	16QAM	1	8	17.88	17.87	17.62	
3	16QAM	1	14	17.58	17.53	17.71	17.5
3	16QAM	8	0	16.80	16.94	16.67	
3	16QAM	8	4	16.61	16.61	16.79	
3	16QAM	8	7	16.83	16.58	16.56	
3	16QAM	15	0	16.60	16.86	16.51	
3	64QAM	1	0	17.59	17.64	17.51	18.5
3	64QAM	1	8	17.58	17.79	17.56	
3	64QAM	1	14	17.51	17.58	17.45	
3	64QAM	8	0	16.63	16.75	16.76	17.5
3	64QAM	8	4	16.65	16.52	16.77	
3	64QAM	8	7	16.67	16.56	16.67	
3	64QAM	15	0	16.62	16.71	16.68	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.57	18.70	18.64	19.5
1.4	QPSK	1	3	18.71	18.68	18.66	
1.4	QPSK	1	5	18.61	18.65	18.60	
1.4	QPSK	3	0	17.92	17.90	17.91	
1.4	QPSK	3	1	17.73	17.81	17.72	
1.4	QPSK	3	3	17.52	17.67	17.63	18.5
1.4	QPSK	6	0	17.81	17.85	17.77	
1.4	16QAM	1	0	17.80	17.61	17.79	18.5
1.4	16QAM	1	3	17.75	17.93	17.59	
1.4	16QAM	1	5	17.47	17.55	17.71	
1.4	16QAM	3	0	16.95	16.75	16.58	
1.4	16QAM	3	1	16.72	16.88	16.81	
1.4	16QAM	3	3	16.82	16.53	16.80	17.5
1.4	16QAM	6	0	16.58	16.58	16.75	
1.4	64QAM	1	0	17.74	17.74	17.71	18.5
1.4	64QAM	1	3	17.60	17.79	17.48	
1.4	64QAM	1	5	17.59	17.59	17.43	
1.4	64QAM	3	0	16.66	16.93	16.81	
1.4	64QAM	3	1	16.57	16.59	16.61	
1.4	64QAM	3	3	16.62	16.52	16.78	
1.4	64QAM	6	0	16.78	16.52	16.36	
1.4	64QAM	6	0	16.78	16.52	16.36	17.5

Band 7 (2600MHz Band) (dBm)							
Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	21.11	21.19	21.15	
20	QPSK	1	49	21.12	21.15	21.10	22
20	QPSK	1	99	21.05	21.03	20.99	
20	QPSK	50	0	20.30	20.39	20.07	
20	QPSK	50	24	20.12	20.04	20.07	21
20	QPSK	50	50	20.25	20.28	20.10	
20	QPSK	100	0	20.15	20.08	20.31	
20	16QAM	1	0	20.13	20.16	20.31	21
20	16QAM	1	49	20.02	20.22	20.15	
20	16QAM	1	99	20.11	20.33	20.27	
20	16QAM	50	0	19.18	19.23	19.29	20
20	16QAM	50	24	19.22	19.12	19.00	
20	16QAM	50	50	19.18	19.28	19.41	
20	16QAM	100	0	19.11	19.18	19.23	21
20	64QAM	1	0	20.27	20.23	20.13	
20	64QAM	1	49	20.09	20.27	20.06	
20	64QAM	1	99	20.21	20.20	19.95	20
20	64QAM	50	0	19.34	19.21	19.31	
20	64QAM	50	24	19.20	19.06	19.33	
20	64QAM	50	50	19.02	19.21	19.07	20
20	64QAM	100	0	18.97	19.15	19.20	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.99	21.15	21.07	
15	QPSK	1	37	21.03	20.98	21.05	22
15	QPSK	1	74	21.10	21.06	21.02	
15	QPSK	36	0	20.18	20.00	20.27	21
15	QPSK	36	20	19.89	19.89	19.91	
15	QPSK	36	39	20.16	20.26	20.22	
15	QPSK	75	0	20.23	20.15	20.24	21
15	16QAM	1	0	20.07	20.30	20.08	
15	16QAM	1	37	20.03	20.27	20.26	
15	16QAM	1	74	19.94	20.18	20.12	20
15	16QAM	36	0	19.37	19.40	19.21	
15	16QAM	36	20	19.07	19.14	19.06	
15	16QAM	36	39	19.06	19.12	19.18	21
15	16QAM	75	0	18.99	19.12	18.93	
15	64QAM	1	0	20.15	20.17	19.97	
15	64QAM	1	37	19.86	20.20	19.90	20
15	64QAM	1	74	19.84	19.75	20.13	
15	64QAM	36	0	19.18	18.97	19.28	
15	64QAM	36	20	18.85	18.88	18.98	20
15	64QAM	36	39	18.94	18.89	19.06	
15	64QAM	75	0	19.01	19.15	18.87	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.08	21.11	21.03	
10	QPSK	1	25	21.00	20.81	21.05	22
10	QPSK	1	49	20.93	21.08	20.99	
10	QPSK	25	0	20.05	20.27	20.19	21
10	QPSK	25	12	20.25	20.22	20.06	
10	QPSK	25	25	20.24	20.25	20.17	
10	QPSK	50	0	20.15	20.13	19.87	21
10	16QAM	1	0	20.13	20.14	20.33	
10	16QAM	1	25	20.04	20.03	20.08	
10	16QAM	1	49	20.01	20.20	20.02	20
10	16QAM	25	0	19.15	19.13	19.17	
10	16QAM	25	12	19.30	19.02	18.96	
10	16QAM	25	25	19.23	19.13	19.00	21
10	16QAM	50	0	18.96	18.98	19.14	
10	64QAM	1	0	20.09	20.11	20.09	
10	64QAM	1	25	19.78	20.10	19.87	20
10	64QAM	1	49	20.01	19.81	19.86	
10	64QAM	25	0	19.27	19.29	19.23	
10	64QAM	25	12	18.90	18.93	19.28	21
10	64QAM	25	25	18.75	18.99	19.05	
10	64QAM	50	0	19.08	19.10	19.13	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	21.08	21.14	21.15	
5	QPSK	1	12	20.96	21.07	21.09	22
5	QPSK	1	24	21.13	21.09	21.01	
5	QPSK	12	0	20.33	19.93	19.94	21
5	QPSK	12	7	20.02	20.03	20.16	
5	QPSK	12	13	19.96	20.12	20.14	
5	QPSK	25	0	20.00	20.01	20.24	21
5	16QAM	1	0	20.04	20.23	20.18	
5	16QAM	1	12	20.29	20.08	20.29	
5	16QAM	1	24	20.07	20.04	19.93	20
5	16QAM	12	0	19.27	19.23	19.17	
5	16QAM	12	7	18.99	19.13	19.03	
5	16QAM	12	13	19.16	18.92	19.28	21
5	16QAM	25	0	19.00	19.12	18.96	
5	64QAM	1	0	20.18	20.23	20.18	
5	64QAM	1	12	20.12	20.05	20.09	20
5	64QAM	1	24	19.93	19.88	20.14	
5	64QAM	12	0	19.07	19.01	19.00	
5	64QAM	12	7	19.14	19.14	18.95	20
5	64QAM	12	13	18.91	18.83	19.09	
5	64QAM	25	0	19.17	19.02	18.90	

Band 13(700MHz Band) (dBm)							
Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0	20.82			21.5
10	QPSK	1	25	20.57			
10	QPSK	1	49	20.53			
10	QPSK	25	0	19.55			20.5
10	QPSK	25	12	19.53			
10	QPSK	25	25	19.75			
10	QPSK	50	0	19.55			20.5
10	16QAM	1	0	19.51			
10	16QAM	1	25	19.62			
10	16QAM	1	49	19.74			19.5
10	16QAM	25	0	18.70			
10	16QAM	25	12	18.69			
10	16QAM	25	25	18.49			20.5
10	16QAM	50	0	18.64			
10	64QAM	1	0	19.55			
10	64QAM	1	25	19.70			19.5
10	64QAM	1	49	19.40			
10	64QAM	25	0	18.83			
10	64QAM	25	12	18.40			19.5
10	64QAM	25	25	18.57			
10	64QAM	50	0	18.48			
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	20.59	20.69	20.66	21.5
5	QPSK	1	12	20.47	20.66	20.58	
5	QPSK	1	24	20.51	20.62	20.55	
5	QPSK	12	0	19.72	19.66	19.49	20.5
5	QPSK	12	7	19.74	19.59	19.38	
5	QPSK	12	13	19.51	19.84	19.50	
5	QPSK	25	0	19.76	19.43	19.67	20.5
5	16QAM	1	0	19.49	19.59	19.80	
5	16QAM	1	12	19.71	19.64	19.58	
5	16QAM	1	24	19.40	19.63	19.40	19.5
5	16QAM	12	0	18.49	18.70	18.51	
5	16QAM	12	7	18.61	18.70	18.53	
5	16QAM	12	13	18.59	18.46	18.78	20.5
5	16QAM	25	0	18.51	18.42	18.42	
5	64QAM	1	0	19.47	19.60	19.74	
5	64QAM	1	12	19.38	19.66	19.44	19.5
5	64QAM	1	24	19.65	19.31	19.31	
5	64QAM	12	0	18.52	18.59	18.78	
5	64QAM	12	7	18.30	18.66	18.55	19.5
5	64QAM	12	13	18.37	18.52	18.36	
5	64QAM	25	0	18.47	18.52	18.46	

Band 14 (700MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		20.84		21.5
10	QPSK	1	25		20.59		
10	QPSK	1	49		20.52		
10	QPSK	25	0		19.81		20.5
10	QPSK	25	12		19.69		
10	QPSK	25	25		19.84		
10	QPSK	50	0		19.38		20.5
10	16QAM	1	0		19.85		
10	16QAM	1	25		19.51		
10	16QAM	1	49		19.56		19.5
10	16QAM	25	0		18.56		
10	16QAM	25	12		18.68		
10	16QAM	25	25		18.44		20.5
10	16QAM	50	0		18.74		
10	64QAM	1	0		19.45		
10	64QAM	1	25		19.52		19.5
10	64QAM	1	49		19.38		
10	64QAM	25	0		18.48		
10	64QAM	25	12		18.44		19.5
10	64QAM	25	25		18.61		
10	64QAM	50	0		18.30		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.77	20.80	20.55	21.5
5	QPSK	1	12	20.74	20.57	20.65	
5	QPSK	1	24	20.53	20.74	20.58	
5	QPSK	12	0	19.82	19.74	19.78	20.5
5	QPSK	12	7	19.42	19.66	19.50	
5	QPSK	12	13	19.48	19.55	19.42	
5	QPSK	25	0	19.75	19.67	19.37	20.5
5	16QAM	1	0	19.67	19.56	19.55	
5	16QAM	1	12	19.79	19.52	19.71	
5	16QAM	1	24	19.49	19.60	19.58	19.5
5	16QAM	12	0	18.76	18.74	18.64	
5	16QAM	12	7	18.66	18.72	18.40	
5	16QAM	12	13	18.39	18.48	18.71	20.5
5	16QAM	25	0	18.61	18.53	18.74	
5	64QAM	1	0	19.36	19.64	19.48	
5	64QAM	1	12	19.67	19.70	19.68	19.5
5	64QAM	1	24	19.41	19.58	19.65	
5	64QAM	12	0	18.77	18.55	18.78	
5	64QAM	12	7	18.63	18.67	18.79	19.5
5	64QAM	12	13	18.43	18.47	18.31	
5	64QAM	25	0	18.37	18.66	18.36	

Band 25 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	19.88	19.95	19.90	20.5
20	QPSK	1	49	19.83	19.49	19.83	
20	QPSK	1	99	19.68	19.63	19.67	
20	QPSK	50	0	18.74	18.95	18.65	19.5
20	QPSK	50	24	18.56	18.67	18.56	
20	QPSK	50	50	18.90	18.79	18.86	
20	QPSK	100	0	18.57	18.72	18.61	19.5
20	16QAM	1	0	18.86	19.00	18.98	
20	16QAM	1	49	18.86	18.77	18.78	
20	16QAM	1	99	18.75	18.71	18.75	18.5
20	16QAM	50	0	17.79	17.73	17.74	
20	16QAM	50	24	17.59	17.91	17.75	
20	16QAM	50	50	17.77	17.89	17.91	19.5
20	16QAM	100	0	17.89	17.67	17.76	
20	64QAM	1	0	18.83	18.59	18.67	
20	64QAM	1	49	18.52	18.52	18.71	18.5
20	64QAM	1	99	18.43	18.45	18.40	
20	64QAM	50	0	17.83	17.87	17.65	
20	64QAM	50	24	17.69	17.53	17.89	18.5
20	64QAM	50	50	17.47	17.43	17.70	
20	64QAM	100	0	17.58	17.43	17.44	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	Tune-up limit (dBm)
15	QPSK	1	0	19.62	19.84	19.81	20.5
15	QPSK	1	37	19.61	19.56	19.56	
15	QPSK	1	74	19.74	19.84	19.82	
15	QPSK	36	0	18.63	18.68	18.70	19.5
15	QPSK	36	20	18.61	18.74	18.55	
15	QPSK	36	39	18.66	18.70	18.75	
15	QPSK	75	0	18.58	18.65	18.49	19.5
15	16QAM	1	0	18.69	18.83	18.97	
15	16QAM	1	37	18.85	18.72	18.90	
15	16QAM	1	74	18.48	18.69	18.57	18.5
15	16QAM	36	0	17.97	17.79	17.86	
15	16QAM	36	20	17.73	17.91	17.54	
15	16QAM	36	39	17.53	17.76	17.79	19.5
15	16QAM	75	0	17.63	17.81	17.50	
15	64QAM	1	0	18.76	18.79	18.54	
15	64QAM	1	37	18.62	18.54	18.59	18.5
15	64QAM	1	74	18.49	18.53	18.69	
15	64QAM	36	0	17.72	17.79	17.55	
15	64QAM	36	20	17.70	17.71	17.71	19.5
15	64QAM	36	39	17.64	17.57	17.52	
15	64QAM	75	0	17.57	17.55	17.78	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)
10	QPSK	1	0	19.79	19.85	19.67	20.5
10	QPSK	1	25	19.62	19.67	19.71	
10	QPSK	1	49	19.76	19.54	19.84	
10	QPSK	25	0	18.96	18.84	18.79	19.5
10	QPSK	25	12	18.60	18.59	18.76	
10	QPSK	25	25	18.87	18.81	18.77	
10	QPSK	50	0	18.62	18.81	18.81	19.5
10	16QAM	1	0	18.72	18.72	18.95	
10	16QAM	1	25	18.82	18.63	18.85	
10	16QAM	1	49	18.68	18.54	18.76	18.5
10	16QAM	25	0	17.99	17.85	17.70	
10	16QAM	25	12	17.85	17.82	17.54	
10	16QAM	25	25	17.54	17.81	17.82	19.5
10	16QAM	50	0	17.86	17.59	17.73	
10	64QAM	1	0	18.52	18.74	18.77	
10	64QAM	1	25	18.66	18.52	18.44	18.5
10	64QAM	1	49	18.47	18.35	18.58	
10	64QAM	25	0	17.63	17.88	17.67	
10	64QAM	25	12	17.52	17.55	17.62	19.5
10	64QAM	25	25	17.50	17.58	17.72	
10	64QAM	50	0	17.87	17.48	17.72	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	Tune-up limit (dBm)
5	QPSK	1	0	19.71	19.87	19.85	20.5
5	QPSK	1	12	19.79	19.51	19.54	
5	QPSK	1	24	19.57	19.58	19.85	
5	QPSK	12	0	18.97	18.73	18.82	19.5
5	QPSK	12	7	18.60	18.56	18.54	
5	QPSK	12	13	18.59	18.86	18.89	
5	QPSK	25	0	18.50	18.82	18.64	19.5
5	16QAM	1	0	18.66	18.98	18.77	
5	16QAM	1	12	18.59	18.83	18.73	
5	16QAM	1	24	18.80	18.90	18.67	18.5
5	16QAM	12	0	17.60	17.84	17.89	
5	16QAM	12	7	17.88	17.72	17.58	
5	16QAM	12	13	17.74	17.53	17.73	19.5
5	16QAM	25	0	17.56	17.79	17.87	
5	64QAM	1	0	18.50	18.61	18.63	
5	64QAM	1	12	18.42	18.77	18.60	18.5
5	64QAM	1	24	18.66	18.47	18.60	
5	64QAM	12	0	17.66	17.60	17.56	
5	64QAM	12	7	17.79	17.60	17.92	18.5
5	64QAM	12	13	17.71	17.53	17.76	
5	64QAM	25	0	17.56	17.53	17.58	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	Tune-up limit (dBm)
3	QPSK	1	0	19.79	19.92	19.81	

3	QPSK	1	8	19.63	19.59	19.69	20.5
3	QPSK	1	14	19.73	19.72	19.79	
3	QPSK	8	0	18.72	18.81	18.56	
3	QPSK	8	4	18.69	18.51	18.56	19.5
3	QPSK	8	7	18.88	18.77	18.77	
3	QPSK	15	0	18.72	18.68	18.53	
3	16QAM	1	0	18.62	18.93	18.60	19.5
3	16QAM	1	8	18.75	18.58	18.90	
3	16QAM	1	14	18.76	18.75	18.61	
3	16QAM	8	0	17.83	17.75	17.72	18.5
3	16QAM	8	4	17.60	17.91	17.74	
3	16QAM	8	7	17.66	17.72	17.71	
3	16QAM	15	0	17.69	17.82	17.54	
3	64QAM	1	0	18.83	18.48	18.77	
3	64QAM	1	8	18.64	18.44	18.81	19.5
3	64QAM	1	14	18.58	18.64	18.72	
3	64QAM	8	0	17.69	17.70	17.71	
3	64QAM	8	4	17.69	17.77	17.55	18.5
3	64QAM	8	7	17.66	17.41	17.58	
3	64QAM	15	0	17.83	17.54	17.42	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	19.79	19.89	19.75	20.5
1.4	QPSK	1	3	19.85	19.81	19.74	
1.4	QPSK	1	5	19.76	19.84	19.62	
1.4	QPSK	3	0	18.79	18.95	18.93	
1.4	QPSK	3	1	18.87	18.70	18.58	
1.4	QPSK	3	3	18.58	18.60	18.59	
1.4	QPSK	6	0	18.79	18.78	18.54	19.5
1.4	16QAM	1	0	18.92	19.00	18.82	18.5
1.4	16QAM	1	3	18.51	18.80	18.65	
1.4	16QAM	1	5	18.81	18.62	18.70	
1.4	16QAM	3	0	17.96	17.77	17.66	
1.4	16QAM	3	1	17.70	17.63	17.79	
1.4	16QAM	3	3	17.55	17.62	17.87	
1.4	16QAM	6	0	17.84	17.94	17.50	17.5
1.4	64QAM	1	0	18.58	18.76	18.52	19.5
1.4	64QAM	1	3	18.40	18.52	18.73	
1.4	64QAM	1	5	18.39	18.65	18.62	
1.4	64QAM	3	0	17.84	17.78	17.89	
1.4	64QAM	3	1	17.80	17.73	17.62	
1.4	64QAM	3	3	17.61	17.53	17.58	
1.4	64QAM	6	0	17.51	17.58	17.41	18.5

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.72	18.92	18.74	19.5
20	QPSK	1	49	18.66	18.78	18.69	
20	QPSK	1	99	18.57	18.59	18.63	
20	QPSK	50	0	17.67	17.72	17.56	18.5
20	QPSK	50	24	17.64	17.62	17.55	
20	QPSK	50	50	17.76	17.58	17.89	
20	QPSK	100	0	17.82	17.61	17.47	18.5
20	16QAM	1	0	17.72	17.82	17.63	
20	16QAM	1	49	17.71	17.88	17.86	
20	16QAM	1	99	17.48	17.71	17.55	17.5
20	16QAM	50	0	16.65	16.67	16.86	
20	16QAM	50	24	16.69	16.75	16.79	
20	16QAM	50	50	16.49	16.59	16.58	18.5
20	16QAM	100	0	16.89	16.91	16.51	
20	64QAM	1	0	17.69	17.77	17.52	
20	64QAM	1	49	17.46	17.54	17.51	17.5
20	64QAM	1	99	17.45	17.72	17.52	
20	64QAM	50	0	16.50	16.61	16.66	
20	64QAM	50	24	16.74	16.60	16.58	18.5
20	64QAM	50	50	16.63	16.35	16.69	
20	64QAM	100	0	16.70	16.44	16.47	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.62	18.74	18.72	19.5
15	QPSK	1	37	18.63	18.58	18.80	
15	QPSK	1	74	18.60	18.49	18.43	
15	QPSK	36	0	17.84	17.64	17.77	18.5
15	QPSK	36	20	17.47	17.57	17.54	
15	QPSK	36	39	17.66	17.72	17.83	
15	QPSK	75	0	17.53	17.55	17.52	18.5
15	16QAM	1	0	17.59	17.97	17.83	
15	16QAM	1	37	17.61	17.57	17.82	
15	16QAM	1	74	17.55	17.62	17.61	17.5
15	16QAM	36	0	16.82	16.86	16.69	
15	16QAM	36	20	16.52	16.77	16.57	
15	16QAM	36	39	16.67	16.79	16.73	18.5
15	16QAM	75	0	16.79	16.91	16.61	
15	64QAM	1	0	17.77	17.82	17.48	
15	64QAM	1	37	17.58	17.54	17.41	17.5
15	64QAM	1	74	17.46	17.59	17.59	
15	64QAM	36	0	16.74	16.56	16.68	
15	64QAM	36	20	16.40	16.74	16.89	18.5
15	64QAM	36	39	16.51	16.49	16.41	
15	64QAM	75	0	16.56	16.79	16.59	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.70	18.78	18.56	19.5
10	QPSK	1	25	18.77	18.57	18.76	
10	QPSK	1	49	18.78	18.69	18.69	
10	QPSK	25	0	17.66	17.87	17.87	18.5
10	QPSK	25	12	17.46	17.70	17.53	
10	QPSK	25	25	17.65	17.93	17.61	
10	QPSK	50	0	17.66	17.70	17.86	18.5
10	16QAM	1	0	17.82	17.79	17.68	
10	16QAM	1	25	17.88	17.74	17.90	
10	16QAM	1	49	17.49	17.79	17.42	17.5
10	16QAM	25	0	16.72	16.90	16.85	
10	16QAM	25	12	16.60	16.87	16.73	
10	16QAM	25	25	16.50	16.87	16.90	18.5
10	16QAM	50	0	16.50	16.57	16.47	
10	64QAM	1	0	17.68	17.64	17.60	
10	64QAM	1	25	17.49	17.71	17.76	17.5
10	64QAM	1	49	17.54	17.67	17.65	
10	64QAM	25	0	16.75	16.85	16.66	
10	64QAM	25	12	16.73	16.67	16.80	18.5
10	64QAM	25	25	16.63	16.53	16.58	
10	64QAM	50	0	16.63	16.68	16.76	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.58	18.76	18.60	19.5
5	QPSK	1	12	18.69	18.47	18.75	
5	QPSK	1	24	18.64	18.66	18.56	
5	QPSK	12	0	17.79	17.84	17.62	18.5
5	QPSK	12	7	17.60	17.87	17.57	
5	QPSK	12	13	17.58	17.94	17.67	
5	QPSK	25	0	17.68	17.66	17.63	18.5
5	16QAM	1	0	17.63	17.91	17.70	
5	16QAM	1	12	17.64	17.85	17.93	
5	16QAM	1	24	17.62	17.87	17.65	17.5
5	16QAM	12	0	16.63	16.70	16.71	
5	16QAM	12	7	16.82	16.77	16.81	
5	16QAM	12	13	16.75	16.77	16.76	18.5
5	16QAM	25	0	16.62	16.54	16.47	
5	64QAM	1	0	17.64	17.81	17.73	
5	64QAM	1	12	17.62	17.42	17.48	17.5
5	64QAM	1	24	17.50	17.42	17.66	
5	64QAM	12	0	16.89	16.60	16.65	
5	64QAM	12	7	16.79	16.52	16.77	18.5
5	64QAM	12	13	16.54	16.53	16.46	
5	64QAM	25	0	16.56	16.54	16.64	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.54	18.72	18.61	

3	QPSK	1	8	18.71	18.56	18.52	19.5
3	QPSK	1	14	18.47	18.66	18.69	
3	QPSK	8	0	17.88	17.55	17.63	18.5
3	QPSK	8	4	17.47	17.64	17.41	
3	QPSK	8	7	17.72	17.73	17.73	
3	QPSK	15	0	17.55	17.49	17.57	
3	16QAM	1	0	17.93	17.88	17.78	18.5
3	16QAM	1	8	17.63	17.69	17.76	
3	16QAM	1	14	17.83	17.66	17.56	
3	16QAM	8	0	16.75	16.88	16.57	
3	16QAM	8	4	16.89	16.62	16.80	17.5
3	16QAM	8	7	16.56	16.60	16.56	
3	16QAM	15	0	16.56	16.59	16.71	
3	64QAM	1	0	17.66	17.85	17.78	
3	64QAM	1	8	17.74	17.74	17.57	18.5
3	64QAM	1	14	17.66	17.50	17.66	
3	64QAM	8	0	16.54	16.56	16.73	
3	64QAM	8	4	16.77	16.79	16.58	
3	64QAM	8	7	16.37	16.42	16.52	17.5
3	64QAM	15	0	16.60	16.50	16.37	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.76	18.80	18.68	19.5
1.4	QPSK	1	3	18.70	18.59	18.75	
1.4	QPSK	1	5	18.48	18.59	18.61	
1.4	QPSK	3	0	17.70	17.72	17.57	
1.4	QPSK	3	1	17.63	17.85	17.52	
1.4	QPSK	3	3	17.52	17.82	17.64	
1.4	QPSK	6	0	17.80	17.85	17.76	18.5
1.4	16QAM	1	0	17.90	17.92	17.76	18.5
1.4	16QAM	1	3	17.78	17.81	17.69	
1.4	16QAM	1	5	17.55	17.78	17.52	
1.4	16QAM	3	0	16.83	16.70	16.85	
1.4	16QAM	3	1	16.84	16.89	16.72	
1.4	16QAM	3	3	16.79	16.55	16.56	
1.4	16QAM	6	0	16.50	16.71	16.63	17.5
1.4	64QAM	1	0	17.62	17.64	17.77	18.5
1.4	64QAM	1	3	17.45	17.66	17.79	
1.4	64QAM	1	5	17.74	17.37	17.49	
1.4	64QAM	3	0	16.53	16.74	16.88	
1.4	64QAM	3	1	16.64	16.54	16.70	
1.4	64QAM	3	3	16.57	16.60	16.51	
1.4	64QAM	6	0	16.72	16.70	16.46	17.5

n2 (1850 ~ 1910MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.93	18.52	18.66	20.00
20		1	53	18.96	18.62	18.73	
20		1	104	18.75	18.66	18.52	20.00
20		50	1	18.45	18.22	18.05	
20		50	25	18.92	17.86	18.70	
20		50	50	18.35	18.24	18.12	
20		100	0	18.44	18.18	18.12	
20	DFT-s-OFDM QPSK	1	1	18.96	19.04	18.80	20.00
20		1	53	18.84	18.79	18.71	
20		1	104	18.63	18.71	18.44	20.00
20		50	1	18.58	18.65	18.25	
20		50	25	19.01	18.75	18.72	
20		50	50	17.95	17.68	17.16	
20		100	0	17.99	17.65	17.60	
20	DFT-s-OFDM 16QAM	1	1	17.97	17.62	17.57	18.50
20	DFT-s-OFDM 64QAM	1	1	16.49	16.13	16.06	17.00
20	DFT-s-OFDM 256QAM	1	1	14.50	14.14	14.09	15.50
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM QPSK	1	1	18.95	18.54	18.63	20.00
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM QPSK	1	1	18.85	18.43	18.56	20.00
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	DFT-s-OFDM QPSK	1	1	18.89	18.62	18.74	20.00
Channel				372000	376000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	CP-OFDM QPSK	1	1	17.14	17.03	17.06	18.00
20	CP-OFDM 16QAM	1	1	16.85	16.68	16.76	17.50
20	CP-OFDM 64QAM	1	1	15.95	15.72	15.86	16.50
20	CP-OFDM 256QAM	1	1	12.37	12.15	12.22	13.00

n7 (2500 ~ 2570 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				-10	2535	10	
20	DFT-s-OFDM PI/2 BPSK	1	1	17.13	16.78	16.89	20.5
20		1	53	19.62	17.12	17.02	
20		1	104	18.95	16.94	16.83	20.5
20		50	1	19.17	16.98	15.74	
20		50	25	19.73	16.52	15.53	
20		50	50	19.34	16.53	15.76	
20		100	0	19.24	14.87	16.18	
20	DFT-s-OFDM QPSK	1	1	19.76	19.90	19.72	20.5
20		1	53	19.70	19.04	17.12	
20		1	104	18.44	19.43	16.12	20.5
20		50	1	19.01	19.33	19.19	
20		50	25	18.91	19.32	19.19	
20		50	50	18.80	18.61	18.42	
20		100	0	18.54	18.66	18.57	
20	DFT-s-OFDM 16QAM	1	1	17.54	18.24	16.55	19
20	DFT-s-OFDM 64QAM	1	1	17.32	16.82	16.52	18
20	DFT-s-OFDM 256QAM	1	1	14.60	15.09	14.53	15.5
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				-7.5	2535	7.5	
15	DFT-s-OFDM QPSK	1	1	19.69	19.62	19.56	20.5
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				-5	2535	5	
10	DFT-s-OFDM QPSK	1	1	18.36	19.50	17.97	20.5
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				-10	2535	10	
20	CP-OFDM QPSK	1	1	15.09	18.12	15.41	19
20	CP-OFDM 16QAM	1	1	15.72	17.61	16.07	18.5
20	CP-OFDM 64QAM	1	1	15.59	15.99	15.73	16.5
20	CP-OFDM 256QAM	1	1	13.07	13.38	13.83	14.5

n38 (2570 ~ 2620 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				518000	519000	520000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.02	15.55	15.44	18
40		1	53	16.64	15.89	15.57	
40		1	105	15.63	15.43	14.92	
40		50	1	15.85	15.69	15.35	
40		50	25	16.42	15.92	15.57	18
40	DFT-s-OFDM QPSK	50	50	15.60	15.29	14.93	
40		100	0	15.77	15.89	15.14	
40		1	1	17.05	17.20	17.09	
40		1	53	16.05	16.41	16.03	18
40		1	105	14.85	15.19	14.85	
40	DFT-s-OFDM QPSK	50	1	16.80	16.95	16.55	
40		50	25	16.60	16.75	16.35	
40		50	50	15.72	15.04	15.05	18
40		100	0	15.64	15.02	14.67	
40	DFT-s-OFDM 16QAM	1	1	14.35	14.19	13.96	15
40	DFT-s-OFDM 64QAM	1	1	13.36	13.23	12.65	14
40	DFT-s-OFDM 256QAM	1	1	11.25	10.91	10.43	12
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	DFT-s-OFDM QPSK	1	1	15.36	15.81	16.14	18
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	DFT-s-OFDM QPSK	1	1	15.38	16.72	15.38	18
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	DFT-s-OFDM QPSK	1	1	16.11	15.86	15.31	18
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2590	2595	2600	
40	CP-OFDM QPSK	1	1	13.94	14.04	14.39	15
40	CP-OFDM 16QAM	1	1	13.85	13.63	13.11	14.5
40	CP-OFDM 64QAM	1	1	13.77	12.59	11.54	14.5
40	CP-OFDM 256QAM	1	1	10.48	9.74	9.40	11

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	18.5
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	DFT-s-OFDM PI/2 BPSK	1	1	16.08	16.33	16.22	16.67	16.68	18.5
100		1	136	16.84	17.89	17.51	17.94	17.68	
100		1	272	14.20	14.21	14.26	14.42	14.16	
100		135	1	16.02	16.81	16.98	17.15	17.31	
100		135	67	16.62	17.04	17.65	17.93	17.63	
100		135	136	16.10	17.03	17.39	17.47	17.51	
100		270	0	16.09	16.94	17.16	17.30	17.35	18.5
100	DFT-s-OFDM QPSK	1	1	17.66	17.51	17.95	17.50	17.44	
100		1	136	16.89	17.75	17.35	17.76	17.65	
100		1	272	14.07	14.16	14.28	14.39	14.18	
100		135	1	17.08	17.33	17.86	17.71	17.76	
100		135	67	16.63	17.38	17.66	17.76	17.81	
100		135	136	16.02	16.80	16.89	16.97	17.00	
100		270	0	16.01	16.45	16.66	16.77	16.87	18.5
100	DFT-s-OFDM 16QAM	1	1	15.03	15.22	15.13	15.75	15.75	
100	DFT-s-OFDM 64QAM	1	1	13.69	14.02	14.06	14.51	14.73	
100	DFT-s-OFDM 256QAM	1	1	12.02	12.07	12.16	12.46	12.50	13.5
Channel				508200	513399	518598	523797	528996	18.5
Frequency (MHz)				2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM QPSK	1	1	15.57	16.45	16.44	17.04	16.92	18.5
Channel				507204	512904	518598	524298	529998	18.5
Frequency (MHz)				2536.02	2564.51	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	15.89	16.63	16.67	16.10	17.25	18.5
Channel				505200	511902	518598	525300	531996	18.5
Frequency (MHz)				2526.00	2559.50	2592.99	2626.49	2659.98	
60	DFT-s-OFDM QPSK	1	1	16.14	16.91	17.25	17.33	17.56	18.5
Channel				504204	511401	518598	525798	532998	18.5
Frequency (MHz)				2521.02	2557.005	2592.99	2628.99	2664.99	
50	DFT-s-OFDM QPSK	1	1	16.31	17.01	17.53	17.55	17.62	18.5
Channel				503202	510900	518598	526296	534000	18.5
Frequency (MHz)				2516.01	2554.50	2592.99	2631.50	2670.00	
40	DFT-s-OFDM QPSK	1	1	15.88	16.72	17.33	17.40	17.50	18.5
Channel				502200	510402	518598	526800	534996	18.5
Frequency (MHz)				2511.00	2552.00	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	16.27	16.89	17.39	17.59	17.80	18.5
Channel				501204	509901	518598	527298	535998	18.5
Frequency (MHz)				2506.02	2549.505	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	16.24	17.05	17.69	17.79	17.33	18.5
Channel				500700	509649	518598	527547	536496	18.5
Frequency (MHz)				2503.5	2548.245	2592.99	2637.735	2682.48	
15	DFT-s-OFDM QPSK	1	1	16.47	17.12	17.33	17.64	17.70	18.5
Channel				500202	509400	518598	527799	537000	18.5
Frequency (MHz)				2501.01	2547	2592.99	2638.995	2685	
10	DFT-s-OFDM QPSK	1	1	16.43	17.19	17.71	17.69	17.93	18.5
Channel				509202	513900	518598	523296	528000	16
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	CP-OFDM QPSK	1	1	14.49	14.93	14.71	15.02	15.36	16
100	CP-OFDM 16QAM	1	1	14.01	14.35	14.25	14.49	15.10	16
100	CP-OFDM 64QAM	1	1	12.60	13.34	13.17	13.47	13.54	14.5
100	CP-OFDM 256QAM	1	1	10.03	10.16	10.03	10.34	10.54	11.5

n66 (1710 ~ 1780 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				346000	349000	352000	21.5
Frequency (MHz)				1730	1745	1760	
40	DFT-s-OFDM PI/2 BPSK	1	1	18.02	20.13	20.48	21.5
40		1	53	20.48	20.68	20.86	
40		1	104	20.82	20.91	20.86	
40		53	1	20.18	20.13	20.40	
40		53	26	20.31	20.52	20.65	
40	DFT-s-OFDM QPSK	53	52	20.48	20.70	20.81	21.5
40		106	0	19.68	19.65	19.89	
40		1	1	20.66	20.95	20.71	
40		1	53	20.50	20.84	20.74	
40		1	104	20.85	20.71	20.81	
40	DFT-s-OFDM QPSK	53	1	20.56	20.77	20.74	21.5
40		53	26	20.28	20.67	20.63	
40		53	52	20.54	20.62	20.75	
40		106	0	19.13	19.22	19.31	
40	DFT-s-OFDM 16QAM	1	1	19.44	19.29	19.41	20
40	DFT-s-OFDM 64QAM	1	1	17.42	17.79	17.96	18.5
40	DFT-s-OFDM 256QAM	1	1	16.17	16.31	16.43	17
Channel				345000	349000	353000	21.5
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM QPSK	1	1	20.41	20.66	20.74	21.5
Channel				344500	349000	353500	21.5
Frequency (MHz)				1722.5	1745	1767.5	
25	DFT-s-OFDM QPSK	1	1	20.51	20.75	20.81	21.5
Channel				344000	349000	354000	21.5
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.54	20.83	20.77	21.5
Channel				343500	349000	354500	21.5
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.66	20.90	20.66	21.5
Channel				343000	349000	355000	21.5
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.54	20.80	20.58	21.5
Channel				342500	349000	355500	21.5
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.68	20.97	20.80	21.5
Channel				346000	349000	352000	20
Frequency (MHz)				1730	1745	1760	
40	CP-OFDM QPSK	1	1	18.82	18.83	19.20	20
40	CP-OFDM 16QAM	1	1	18.54	18.34	18.93	19.5
40	CP-OFDM 64QAM	1	1	17.09	17.13	17.17	18
40	CP-OFDM 256QAM	1	1	14.23	14.17	14.36	15

n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			19.5
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.21			19.5
100		1	136			18.90			
100		1	271			17.49			
100		135	1			18.01			
100		135	67			18.95			
100	DFT-s-OFDM QPSK	135	136			18.35			19.5
100		270	0			18.38			
100		1	1			18.97			
100		1	136			18.85			
100		1	271			17.51			
100	DFT-s-OFDM QPSK	135	1			18.89			19.5
100		135	67			18.86			
100		135	136			17.54			
100		270	0			17.69			
100		1	1			17.24			
100	DFT-s-OFDM 16QAM	1	1			15.89			18
100	DFT-s-OFDM 64QAM	1	1			14.13			16.5
100	DFT-s-OFDM 256QAM	1	1						15
Channel				633000	633167	633334	633500	633666	19.5
Frequency (MHz)				3495	3497.505	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.26	18.29	18.33	18.28	18.31	19.5
Channel				632668	633000	633334	633666	634000	19.5
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.35	18.48	18.32	18.48	18.45	19.5
Channel				632000	632668	633334	634000	634666	19.5
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.52	18.49	18.62	18.63	18.71	19.5
Channel				631667	632500	633334	634166	635000	19.5
Frequency (MHz)				3475.005	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.65	18.67	18.59	18.71	18.79	19.5
Channel				631334	632334	633334	634332	635332	19.5
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.40	18.45	18.54	18.53	18.58	19.5
Channel				630668	632000	633334	634666	636000	19.5
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.71	18.59	18.80	18.81	18.75	19.5
Channel				630500	631917	633334	634750	636166	19.5
Frequency (MHz)				3457.5	3478.755	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	18.84	18.62	18.83	18.84	18.73	19.5
Channel				630334	631834	633334	634833	636333	19.5
Frequency (MHz)				3455.01	3477.51	3500.01	3522.495	3544.995	
10	DFT-s-OFDM QPSK	1	1	18.87	18.73	18.86	18.85	18.74	19.5
Channel						633334			17.5
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			16.75			17
100	CP-OFDM 16QAM	1	1			15.03			16
100	CP-OFDM 64QAM	1	1			12.12			13
100	CP-OFDM 256QAM	1	1						

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.85	17.35	17.31	17.56	17.64	19.5
100		1	136	18.84	18.27	18.25	18.46	18.54	
100		1	271	18.32	17.24	17.12	17.36	17.45	
100		135	1	18.34	17.75	17.57	17.85	17.84	19.5
100		135	67	18.78	18.46	18.23	18.51	18.57	
100		135	136	18.55	17.85	17.50	17.78	17.81	
100	DFT-s-OFDM QPSK	270	0	18.43	17.78	17.51	17.76	17.82	19.5
100		1	1	18.61	18.77	18.93	18.68	18.56	
100		1	136	18.77	18.26	18.25	18.49	18.62	
100		1	271	18.34	17.25	17.13	17.35	17.49	19.5
100		135	1	18.23	18.35	18.56	18.44	18.50	
100		135	67	18.11	18.25	18.26	18.40	18.47	
100	DFT-s-OFDM 16QAM	135	136	16.81	16.98	16.88	16.96	17.20	17.5
100		270	0	17.01	17.06	16.98	17.15	17.10	
100	DFT-s-OFDM 64QAM	1	1	16.05	16.38	16.35	16.56	16.71	16
100	DFT-s-OFDM 256QAM	1	1	14.72	15.02	14.98	15.19	15.27	14.5
Channel				649667	652834	656000	659166	662333	Tune-up limit (dBm)
Frequency (MHz)				3745.005	3792.51	3840	3887.49	3934.995	
90	DFT-s-OFDM QPSK	1	1	18.08	17.46	17.49	17.71	17.71	19.5
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790	3840	3890	3940	
80	DFT-s-OFDM QPSK	1	1	18.53	17.64	17.68	17.87	17.95	19.5
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730	3785	3840	3895	3950	
60	DFT-s-OFDM QPSK	1	1	18.33	17.83	17.98	17.93	18.09	19.5
Channel				648334	652167	656000	659833	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3782.505	3840	3897.495	3954.99	
50	DFT-s-OFDM QPSK	1	1	18.57	17.58	17.80	18.21	18.15	19.5
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	18.33	17.50	17.81	17.81	17.77	19.5
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710	3775	3840	3905	3970	
20	DFT-s-OFDM QPSK	1	1	18.65	18.12	18.13	18.22	18.15	19.5
Channel				647167	651584	656000	660416	664833	Tune-up limit (dBm)
Frequency (MHz)				3707.505	3773.76	3840	3906.24	3972.495	
15	DFT-s-OFDM QPSK	1	1	18.78	18.07	18.19	18.28	18.20	19.5
Channel				647000	651500	656000	660500	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3772.5	3840	3907.5	3975	
10	DFT-s-OFDM QPSK	1	1	18.75	18.14	18.20	18.30	18.41	19.5
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	15.43	15.99	15.93	16.07	16.17	17
100	CP-OFDM 16QAM	1	1	14.80	15.34	15.37	15.47	15.62	16.5
100	CP-OFDM 64QAM	1	1	13.29	13.87	13.83	13.99	14.08	15
100	CP-OFDM 256QAM	1	1	10.74	11.34	11.34	11.48	11.55	12.5

n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			20
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			18.27			20
100		1	136			19.17			
100		1	271			17.65			
100		135	1			18.44			
100		135	67			19.08			
100	DFT-s-OFDM QPSK	135	136			18.23			20
100		270	0			18.34			
100		1	1			19.18			
100		1	136			18.98			
100		1	271			17.69			
100	DFT-s-OFDM QPSK	135	1			18.97			20
100		135	67			18.95			
100		135	136			17.63			
100		270	0			17.83			
100		1	1			17.26			
100	DFT-s-OFDM 16QAM	1	1			15.84			18
100	DFT-s-OFDM 64QAM	1	1			13.95			16.5
100	DFT-s-OFDM 256QAM	1	1						14.5
Channel				633000	633167	633334	633500	633666	20
Frequency (MHz)				3495	3497.505	3500.01	3502.5	3504.99	
90	DFT-s-OFDM QPSK	1	1	18.40	18.48	18.45	18.31	18.53	20
Channel				632668	633000	633334	633666	634000	20
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.71	18.50	18.65	18.54	18.65	20
Channel				632000	632668	633334	634000	634666	20
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	18.64	18.88	18.73	18.88	18.90	20
Channel				631667	632500	633334	634166	635000	20
Frequency (MHz)				3475.005	3487.5	3500.01	3512.49	3525	
50	DFT-s-OFDM QPSK	1	1	18.74	18.82	18.89	18.92	19.02	20
Channel				631334	632334	633334	634332	635332	20
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.44	18.23	18.67	18.78	18.73	20
Channel				630668	632000	633334	634666	636000	20
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.69	18.76	18.95	19.08	19.00	20
Channel				630500	631917	633334	634750	636166	20
Frequency (MHz)				3457.5	3478.755	3500.01	3521.25	3542.49	
15	DFT-s-OFDM QPSK	1	1	19.00	18.87	19.01	19.18	18.86	20
Channel				630334	631834	633334	634833	636333	20
Frequency (MHz)				3455.01	3477.51	3500.01	3522.495	3544.995	
10	DFT-s-OFDM QPSK	1	1	18.92	18.87	18.97	19.04	18.92	20
Channel						633334			17.5
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			16.91			17
100	CP-OFDM 16QAM	1	1			16.29			16.5
100	CP-OFDM 64QAM	1	1			11.96			12.5
100	CP-OFDM 256QAM	1	1						

n78 (3300 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						650000			19.5
Frequency (MHz)						3750			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.02			19.5
100		1	136			18.46			
100		1	271			17.46			
100		135	1			17.57			
100		135	67			18.37			
100	DFT-s-OFDM QPSK	135	136			17.69			19.5
100		270	0			17.59			
100		1	1			18.65			
100		1	136			18.39			
100		1	271			17.44			
100	DFT-s-OFDM QPSK	135	1			18.10			19.5
100		135	67			18.07			
100		135	136			17.16			
100		270	0			17.00			
100	DFT-s-OFDM 16QAM	1	1			16.01			17
100	DFT-s-OFDM 64QAM	1	1			14.66			15.5
100	DFT-s-OFDM 256QAM	1	1			12.95			13.5
Channel				649667	649834	650000	650166	650333	19.5
Frequency (MHz)				3745.005	3747.51	3750	3752.49	3754.995	
90	DFT-s-OFDM QPSK	1	1	17.24	17.16	17.25	17.19	17.56	19.5
Channel				649334	649667	650000	650333	650666	19.5
Frequency (MHz)				3740.01	3745.005	3750	3754.995	3759.99	
80	DFT-s-OFDM QPSK	1	1	17.39	17.40	17.44	17.48	17.93	19.5
Channel				648667	649334	650000	650666	651333	19.5
Frequency (MHz)				3730.005	3740.01	3750	3759.99	3769.995	
60	DFT-s-OFDM QPSK	1	1	17.61	17.61	17.81	17.84	18.21	19.5
Channel				648334	649167	650000	650833	651666	19.5
Frequency (MHz)				3725.01	3737.505	3750	3762.495	3774.99	
50	DFT-s-OFDM QPSK	1	1	17.47	17.84	17.91	18.08	18.34	19.5
Channel				648000	649000	650000	651000	652000	19.5
Frequency (MHz)				3720	3735	3750	3765	3780	
40	DFT-s-OFDM QPSK	1	1	13.87	17.53	17.77	17.83	18.28	19.5
Channel				647334	648667	650000	651333	652666	19.5
Frequency (MHz)				3710.01	3730.005	3750	3769.995	3789.99	
20	DFT-s-OFDM QPSK	1	1	17.75	17.99	18.19	18.15	18.51	19.5
Channel				647167	648584	650000	651416	652833	19.5
Frequency (MHz)				3707.505	3728.76	3750	3771.24	3792.495	
15	DFT-s-OFDM QPSK	1	1	17.74	18.02	18.23	18.16	18.57	19.5
Channel				647000	648500	650000	651500	653000	19.5
Frequency (MHz)				3705	3727.5	3750	3772.5	3795	
10	DFT-s-OFDM QPSK	1	1	17.60	18.06	18.24	17.39	18.71	19.5
Channel						650000			16
Frequency (MHz)						3750			
100	CP-OFDM QPSK	1	1			15.49			16
100	CP-OFDM 16QAM	1	1			14.88			15.5
100	CP-OFDM 64QAM	1	1			13.41			14
100	CP-OFDM 256QAM	1	1			10.86			11.5



REPORT No.: SZ22080079S01

Annex F Simultaneous Transmission Exposure

LTE Data for Body Simultaneous Transmission

LTE Band	Exposure Position	LTE Band	2.4GHz Ant 7	2.4GHz Ant 8	5GHz Ant 7	5GHz Ant 8	LTE+2.4G MIMO	LTE+5G MIMO	LTE+2.4GHz Ant 7+5GHz Ant 8	LTE+2.4GHz Ant 8+5GHz Ant 7
LTE Band 5	Front Side	0.390	0.092	0.382	0.231	0.193	0.864	0.814	0.675	1.003
	Back Side	0.559	0.125	0.173	0.262	0.326	0.857	1.147	1.010	0.994
	Left Side	0.230	0.084	0.048	0.408	0.221	0.362	0.859	0.535	0.686
	Right Side	0.276	0.021	0.420	0.230	0.599	0.717	1.105	0.896	0.926
	Top Side	0.212	0.027	0.023	0.055	0.060	0.262	0.327	0.299	0.290
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 7	Front Side	0.433	0.092	0.382	0.231	0.193	0.907	0.857	0.718	1.046
	Back Side	0.551	0.125	0.173	0.262	0.326	0.849	1.139	1.002	0.986
	Left Side	0.175	0.084	0.048	0.408	0.221	0.307	0.804	0.480	0.631
	Right Side	0.261	0.021	0.420	0.230	0.599	0.702	1.090	0.881	0.911
	Top Side	0.475	0.027	0.023	0.055	0.060	0.525	0.590	0.562	0.553
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 12	Front Side	0.302	0.092	0.382	0.231	0.193	0.776	0.726	0.587	0.915
	Back Side	0.447	0.125	0.173	0.262	0.326	0.745	1.035	0.898	0.882
	Left Side	0.181	0.084	0.048	0.408	0.221	0.313	0.810	0.486	0.637
	Right Side	0.324	0.021	0.420	0.230	0.599	0.765	1.153	0.944	0.974
	Top Side	0.080	0.027	0.023	0.055	0.060	0.130	0.195	0.167	0.158
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 13	Front Side	0.573	0.092	0.382	0.231	0.193	1.047	0.997	0.858	1.186
	Back Side	0.616	0.125	0.173	0.262	0.326	0.914	1.204	1.067	1.051
	Left Side	0.294	0.084	0.048	0.408	0.221	0.426	0.923	0.599	0.750
	Right Side	0.344	0.021	0.420	0.230	0.599	0.785	1.173	0.964	0.994
	Top Side	0.131	0.027	0.023	0.055	0.060	0.181	0.246	0.218	0.209
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 14	Front Side	0.657	0.092	0.382	0.231	0.193	1.131	1.081	0.942	1.270
	Back Side	0.689	0.125	0.173	0.262	0.326	0.987	1.277	1.140	1.124
	Left Side	0.332	0.084	0.048	0.408	0.221	0.464	0.961	0.637	0.788
	Right Side	0.408	0.021	0.420	0.230	0.599	0.849	1.237	1.028	1.058
	Top Side	0.134	0.027	0.023	0.055	0.060	0.184	0.249	0.221	0.212
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 25	Front Side	0.386	0.092	0.382	0.231	0.193	0.860	0.810	0.671	0.999
	Back Side	0.489	0.125	0.173	0.262	0.326	0.787	1.077	0.940	0.924
	Left Side	0.113	0.084	0.048	0.408	0.221	0.245	0.742	0.418	0.569
	Right Side	0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.042	1.072
	Top Side	0.435	0.027	0.023	0.055	0.060	0.485	0.550	0.522	0.513
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 26	Front Side	0.372	0.092	0.382	0.231	0.193	0.846	0.796	0.657	0.985
	Back Side	0.487	0.125	0.173	0.262	0.326	0.785	1.075	0.938	0.922
	Left Side	0.155	0.084	0.048	0.408	0.221	0.287	0.784	0.460	0.611
	Right Side	0.206	0.021	0.420	0.230	0.599	0.647	1.035	0.826	0.856
	Top Side	0.407	0.027	0.023	0.055	0.060	0.457	0.522	0.494	0.485
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 30	Front Side	0.272	0.092	0.382	0.231	0.193	0.746	0.696	0.557	0.885
	Back Side	0.663	0.125	0.173	0.262	0.326	0.961	1.251	1.114	1.098
	Left Side	0.044	0.084	0.048	0.408	0.221	0.176	0.673	0.349	0.500
	Right Side	0.075	0.021	0.420	0.230	0.599	0.516	0.904	0.695	0.725
	Top Side	0.435	0.027	0.023	0.055	0.060	0.485	0.550	0.522	0.513
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 38	Front Side	0.535	0.092	0.382	0.231	0.193	1.009	0.959	0.820	1.148
	Back Side	0.364	0.125	0.173	0.262	0.326	0.662	0.952	0.815	0.799
	Left Side	0.189	0.084	0.048	0.408	0.221	0.321	0.818	0.494	0.645
	Right Side		0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650
	Top Side		0.027	0.023	0.055	0.060	0.050	0.115	0.087	0.078
	Bottom Side	0.237	0.018	0.035	0.034	0.040	0.290	0.311	0.295	0.306
LTE Band 41 PC3	Front Side	0.493	0.092	0.382	0.231	0.193	0.967	0.917	0.778	1.106
	Back Side	0.334	0.125	0.173	0.262	0.326	0.632	0.922	0.785	0.769
	Left Side	0.367	0.084	0.048	0.408	0.221	0.499	0.996	0.672	0.823
	Right Side		0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650
	Top Side		0.027	0.023	0.055	0.060	0.050	0.115	0.087	0.078
	Bottom Side	0.449	0.018	0.035	0.034	0.040	0.502	0.523	0.507	0.518
LTE Band 41 PC2	Front Side	0.608	0.092	0.382	0.231	0.193	1.082	1.032	0.893	1.221
	Back Side	0.129	0.125	0.173	0.262	0.326	0.427	0.717	0.580	0.564
	Left Side	0.334	0.084	0.048	0.408	0.221	0.466	0.963	0.639	0.790
	Right Side		0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650
	Top Side		0.027	0.023	0.055	0.060	0.050	0.115	0.087	0.078
	Bottom Side	0.333	0.018	0.035	0.034	0.040	0.386	0.407	0.391	0.402
LTE Band 42	Front Side	0.283	0.092	0.382	0.231	0.193	0.757	0.707	0.568	0.896
	Back Side	0.214	0.125	0.173	0.262	0.326	0.512	0.802	0.665	0.649
	Left Side	0.266	0.084	0.048	0.408	0.221	0.398	0.895	0.571	0.722
	Right Side		0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650
	Top Side	0.233	0.027	0.023	0.055	0.060	0.283	0.348	0.320	0.311
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 48	Front Side	0.309	0.092	0.382	0.231	0.193	0.783	0.733	0.594	0.922
	Back Side	0.200	0.125	0.173	0.262	0.326	0.498	0.788	0.651	0.635
	Left Side	0.397	0.084	0.048	0.408	0.221	0.529	1.026	0.702	0.853
	Right Side		0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650
	Top Side	0.321	0.027	0.023	0.055	0.060	0.371	0.436	0.408	0.399
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 66	Front Side	0.570	0.092	0.382	0.231	0.193	1.044	0.994	0.855	1.183
	Back Side	0.639	0.125	0.173	0.262	0.326	0.937	1.227	1.090	1.074
	Left Side	0.099	0.084	0.048	0.408	0.221	0.231	0.728	0.404	0.555
	Right Side	0.397	0.021	0.420	0.230	0.599	0.838	1.226	1.017	1.047
	Top Side	0.575	0.027	0.023	0.055	0.060	0.625	0.690	0.662	0.653
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
LTE Band 71	Front Side	0.202	0.092	0.382	0.231	0.193	0.676	0.626	0.487	0.815
	Back Side	0.252	0.125	0.173	0.262	0.326	0.550	0.840	0.703	0.687
	Left Side	0.112	0.084	0.048	0.408	0.221	0.244	0.741	0.417	0.568
	Right Side	0.211	0.021	0.420	0.230	0.599	0.652	1.040	0.831	0.861
	Top Side	0.053	0.027	0.023	0.055	0.060	0.103	0.168	0.140	0.131
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069

5G NR Data for Body Simultaneous Transmission

5G NR Band	Exposure Position	5G NR Band	2.4GHz Ant 7	2.4GHz Ant 8	5GHz Ant 7	5GHz Ant 8	NR+2.4G MIMO	NR+5G MIMO	NR+2.4GHz Ant 7+5GHz Ant 8	NR+2.4GHz Ant 7+5GHz Ant 8
5G NR n2	Front Side	0.317	0.092	0.382	0.231	0.193	0.791	0.741	0.602	0.930
	Back Side	0.362	0.125	0.173	0.262	0.326	0.660	0.950	0.813	0.797
	Left Side	0.047	0.084	0.048	0.408	0.221	0.179	0.676	0.352	0.503
	Right Side	0.280	0.021	0.420	0.230	0.599	0.721	1.109	0.900	0.930
	Top Side	0.195	0.027	0.023	0.055	0.060	0.245	0.310	0.282	0.273
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.423	0.092	0.382	0.231	0.193	0.897	0.847	0.708	1.036
5G NR n5	Back Side	0.449	0.125	0.173	0.262	0.326	0.747	1.037	0.900	0.884
	Left Side	0.152	0.084	0.048	0.408	0.221	0.284	0.781	0.457	0.608
	Right Side	0.202	0.021	0.420	0.230	0.599	0.643	1.031	0.822	0.852
	Top Side	0.181	0.027	0.023	0.055	0.060	0.231	0.296	0.268	0.259
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.272	0.092	0.382	0.231	0.193	0.746	0.696	0.557	0.885
	Back Side	0.386	0.125	0.173	0.262	0.326	0.684	0.974	0.837	0.821
5G NR n7	Left Side	0.115	0.084	0.048	0.408	0.221	0.247	0.744	0.420	0.571
	Right Side	0.085	0.021	0.420	0.230	0.599	0.526	0.914	0.705	0.735
	Top Side	0.193	0.027	0.023	0.055	0.060	0.243	0.308	0.280	0.271
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.394	0.092	0.382	0.231	0.193	0.868	0.818	0.679	1.007
	Back Side	0.346	0.125	0.173	0.262	0.326	0.644	0.934	0.797	0.781
	Left Side	0.283	0.084	0.048	0.408	0.221	0.415	0.912	0.588	0.739
5G NR n38	Right Side	0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650	0.650
	Top Side	0.027	0.023	0.055	0.060	0.050	0.115	0.087	0.078	0.078
	Bottom Side	0.288	0.018	0.035	0.034	0.040	0.341	0.362	0.346	0.357
	Front Side	0.410	0.092	0.382	0.231	0.193	0.884	0.834	0.695	1.023
	Back Side	0.210	0.125	0.173	0.262	0.326	0.508	0.798	0.661	0.645
	Left Side	0.148	0.084	0.048	0.408	0.221	0.280	0.777	0.453	0.604
	Right Side	0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650	0.650
5G NR n41	Top Side	0.027	0.023	0.055	0.060	0.050	0.115	0.087	0.078	0.078
	Bottom Side	0.223	0.018	0.035	0.034	0.040	0.276	0.297	0.281	0.292
	Front Side	0.263	0.092	0.382	0.231	0.193	0.737	0.687	0.548	0.876
	Back Side	0.376	0.125	0.173	0.262	0.326	0.674	0.964	0.827	0.811
	Left Side	0.073	0.084	0.048	0.408	0.221	0.205	0.702	0.378	0.529
	Right Side	0.215	0.021	0.420	0.230	0.599	0.656	1.044	0.835	0.865
	Top Side	0.282	0.027	0.023	0.055	0.060	0.332	0.397	0.369	0.360
5G NR n66	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.197	0.092	0.382	0.231	0.193	0.671	0.621	0.482	0.810
	Back Side	0.257	0.125	0.173	0.262	0.326	0.555	0.845	0.708	0.692
	Left Side	0.081	0.084	0.048	0.408	0.221	0.213	0.710	0.386	0.537
	Right Side	0.191	0.021	0.420	0.230	0.599	0.632	1.020	0.811	0.841
	Top Side	0.223	0.027	0.023	0.055	0.060	0.273	0.338	0.310	0.301
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
5G NR n77 (3700-3980MHz)	Front Side	0.374	0.092	0.382	0.231	0.193	0.848	0.798	0.659	0.987
	Back Side	0.340	0.125	0.173	0.262	0.326	0.638	0.928	0.791	0.775
	Left Side	0.709	0.084	0.048	0.408	0.221	0.841	1.338	1.014	1.165
	Right Side	0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650	0.650
	Top Side	0.159	0.027	0.023	0.055	0.060	0.209	0.274	0.248	0.237
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.401	0.092	0.382	0.231	0.193	0.875	0.825	0.686	1.014
5G NR n77 (3450-3550MHz)	Back Side	0.281	0.125	0.173	0.262	0.326	0.579	0.869	0.732	0.716
	Left Side	0.326	0.084	0.048	0.408	0.221	0.458	0.955	0.631	0.782
	Right Side	0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650	0.650
	Top Side	0.072	0.027	0.023	0.055	0.060	0.122	0.187	0.159	0.150
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.298	0.092	0.382	0.231	0.193	0.772	0.722	0.583	0.911
	Back Side	0.293	0.125	0.173	0.262	0.326	0.591	0.881	0.744	0.728
5G NR n78 (3700-3980MHz)	Left Side	0.511	0.084	0.048	0.408	0.221	0.643	1.140	0.816	0.967
	Right Side	0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650	0.650
	Top Side	0.104	0.027	0.023	0.055	0.060	0.154	0.219	0.191	0.182
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.244	0.092	0.382	0.231	0.193	0.718	0.668	0.529	0.857
	Back Side	0.187	0.125	0.173	0.262	0.326	0.485	0.775	0.638	0.622
	Left Side	0.343	0.084	0.048	0.408	0.221	0.475	0.972	0.648	0.799
5G NR n78 (3700-3980MHz)	Right Side	0.021	0.420	0.230	0.599	0.441	0.829	0.620	0.650	0.650
	Top Side	0.019	0.027	0.023	0.055	0.060	0.069	0.134	0.106	0.097
	Bottom Side		0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069

EN-DC Data for Body Simultaneous Transmission												
EN-DC Combination	Exposure Position	LTE Band	5G NR	EN-DC	2.4GHz Ant 7	2.4GHz Ant 8	5GHz Ant 7	5GHz Ant 8	EN-DC+2.4G MIMO	EN-DC+5G MIMO	EN-DC+2.4GHz Ant7+5GHz Ant8	EN-DC+2.4GHz Ant 8+5GHz Ant 7
DC_5A-n2	Front Side	0.384	0.317	0.701	0.092	0.382	0.231	0.193	1.175	1.125	0.986	1.314
	Back Side	0.550	0.362	0.912	0.125	0.173	0.262	0.326	1.210	1.500	1.363	1.347
	Left Side	0.226	0.047	0.273	0.084	0.048	0.408	0.221	0.405	0.902	0.578	0.729
	Right Side	0.271	0.280	0.551	0.021	0.420	0.230	0.599	0.992	1.380	1.171	1.201
	Top Side	0.209	0.195	0.404	0.027	0.023	0.055	0.060	0.454	0.519	0.491	0.482
DC_12A-n2	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.302	0.317	0.619	0.092	0.382	0.231	0.193	1.093	1.043	0.904	1.232
	Back Side	0.447	0.362	0.809	0.125	0.173	0.262	0.326	1.107	1.397	1.260	1.244
	Left Side	0.181	0.047	0.228	0.084	0.048	0.408	0.221	0.360	0.857	0.533	0.684
	Right Side	0.324	0.280	0.604	0.021	0.420	0.230	0.599	1.045	1.433	1.224	1.254
DC_13A-n2	Top Side	0.080	0.195	0.275	0.027	0.023	0.055	0.060	0.325	0.390	0.362	0.353
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.502	0.317	0.819	0.092	0.382	0.231	0.193	1.293	1.243	1.104	1.432
	Back Side	0.509	0.362	0.871	0.125	0.173	0.262	0.326	1.169	1.459	1.322	1.306
	Left Side	0.242	0.047	0.289	0.084	0.048	0.408	0.221	0.421	0.918	0.594	0.745
DC_66A-n2	Right Side	0.284	0.280	0.564	0.021	0.420	0.230	0.599	1.005	1.393	1.184	1.214
	Top Side	0.108	0.195	0.303	0.027	0.023	0.055	0.060	0.353	0.418	0.390	0.381
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.564	0.317	0.881	0.092	0.382	0.231	0.193	1.355	1.305	1.166	1.494
	Back Side	0.632	0.362	0.994	0.125	0.173	0.262	0.326	1.292	1.582	1.445	1.429
DC_71A-n2	Left Side	0.098	0.047	0.145	0.084	0.048	0.408	0.221	0.277	0.774	0.450	0.601
	Right Side	0.392	0.280	0.672	0.021	0.420	0.230	0.599	1.113	1.501	1.292	1.322
	Top Side	0.568	0.195	0.763	0.027	0.023	0.055	0.060	0.813	0.878	0.850	0.841
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.202	0.317	0.519	0.092	0.382	0.231	0.193	0.993	0.943	0.804	1.132
DC_2A-n7	Back Side	0.252	0.362	0.614	0.125	0.173	0.262	0.326	0.912	1.202	1.065	1.049
	Left Side	0.112	0.047	0.159	0.084	0.048	0.408	0.221	0.291	0.788	0.464	0.615
	Right Side	0.211	0.280	0.491	0.021	0.420	0.230	0.599	0.932	1.320	1.111	1.141
	Top Side	0.053	0.195	0.248	0.027	0.023	0.055	0.060	0.298	0.363	0.335	0.326
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
DC_5A-n7	Front Side	0.386	0.272	0.658	0.092	0.382	0.231	0.193	1.132	1.082	0.943	1.271
	Back Side	0.489	0.451	0.940	0.125	0.173	0.262	0.326	1.238	1.528	1.391	1.375
	Left Side	0.113	0.115	0.228	0.084	0.048	0.408	0.221	0.360	0.857	0.533	0.684
	Right Side	0.422	0.085	0.507	0.021	0.420	0.230	0.599	0.948	1.336	1.127	1.157
	Top Side	0.435	0.193	0.628	0.027	0.023	0.055	0.060	0.678	0.743	0.715	0.706
DC_12A-n7	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.384	0.272	0.656	0.092	0.382	0.231	0.193	1.130	1.080	0.941	1.269
	Back Side	0.550	0.451	1.001	0.125	0.173	0.262	0.326	1.299	1.589	1.452	1.436
	Left Side	0.226	0.115	0.341	0.084	0.048	0.408	0.221	0.473	0.970	0.646	0.797
	Right Side	0.271	0.085	0.356	0.021	0.420	0.230	0.599	0.797	1.185	0.976	1.006
DC_13A-n7	Top Side	0.209	0.193	0.402	0.027	0.023	0.055	0.060	0.452	0.517	0.489	0.480
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.302	0.272	0.574	0.092	0.382	0.231	0.193	1.048	0.998	0.859	1.187
	Back Side	0.447	0.451	0.898	0.125	0.173	0.262	0.326	1.196	1.486	1.349	1.333
	Left Side	0.181	0.115	0.296	0.084	0.048	0.408	0.221	0.428	0.925	0.601	0.752
DC_2A-n66	Right Side	0.324	0.085	0.409	0.021	0.420	0.230	0.599	0.850	1.238	1.029	1.059
	Top Side	0.080	0.193	0.273	0.027	0.023	0.055	0.060	0.323	0.388	0.360	0.351
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.502	0.272	0.774	0.092	0.382	0.231	0.193	1.248	1.198	1.059	1.387
	Back Side	0.509	0.451	0.960	0.125	0.173	0.262	0.326	1.258	1.548	1.411	1.395
DC_5A-n66	Left Side	0.242	0.115	0.357	0.084	0.048	0.408	0.221	0.489	0.986	0.662	0.813
	Right Side	0.284	0.085	0.369	0.021	0.420	0.230	0.599	0.810	1.198	0.989	1.019
	Top Side	0.108	0.193	0.301	0.027	0.023	0.055	0.060	0.351	0.416	0.388	0.379
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.386	0.263	0.649	0.092	0.382	0.231	0.193	1.123	1.073	0.934	1.262
DC_12A-n66	Back Side	0.489	0.376	0.985	0.125	0.173	0.262	0.326	1.163	1.453	1.316	1.300
	Left Side	0.113	0.073	0.186	0.084	0.048	0.408	0.221	0.318	0.815	0.491	0.642
	Right Side	0.422	0.215	0.637	0.021	0.420	0.230	0.599	1.078	1.466	1.257	1.287
	Top Side	0.435	0.282	0.717	0.027	0.023	0.055	0.060	0.767	0.832	0.804	0.795
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
DC_71A-n66	Front Side	0.384	0.263	0.647	0.092	0.382	0.231	0.193	1.121	1.071	0.932	1.260
	Back Side	0.550	0.376	0.926	0.125	0.173	0.262	0.326	1.224	1.514	1.377	1.361
	Left Side	0.226	0.073	0.299	0.084	0.048	0.408	0.221	0.431	0.928	0.604	0.755
	Right Side	0.271	0.215	0.486	0.021	0.420	0.230	0.599	0.927	1.315	1.106	1.136
	Top Side	0.209	0.282	0.491	0.027	0.023	0.055	0.060	0.541	0.606	0.578	0.569
DC_13A-n66	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.302	0.263	0.565	0.092	0.382	0.231	0.193	1.039	0.989	0.850	1.178
	Back Side	0.447	0.376	0.823	0.125	0.173	0.262	0.326	1.121	1.411	1.274	1.258
	Left Side	0.181	0.073	0.254	0.084	0.048	0.408	0.221	0.386	0.883	0.559	0.710
	Right Side	0.324	0.215	0.539	0.021	0.420	0.230	0.599	0.980	1.368	1.159	1.189
DC_5A-n38	Top Side	0.080	0.282	0.362	0.027	0.023	0.055	0.060	0.412	0.477	0.449	0.440
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.658	0.263	0.921	0.092	0.382	0.231	0.193	1.395	1.345	1.206	1.534
	Back Side	0.566	0.376	0.942	0.125	0.173	0.262	0.326	1.240	1.530	1.393	1.377
	Left Side	0.294	0.073	0.367	0.084	0.048	0.408	0.221	0.499	0.996	0.672	0.823
DC_71A-n38	Right Side	0.344	0.215	0.559	0.021	0.420	0.230	0.599	1.000	1.388	1.179	1.209
	Top Side	0.131	0.282	0.413	0.027	0.023	0.055	0.060	0.463	0.528	0.500	0.491
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.202	0.263	0.465	0.092	0.382	0.231	0.193	0.939	0.889	0.750	1.078
	Back Side	0.252	0.376	0.628	0.125	0.173	0.262	0.326	0.926	1.216	1.079	1.063
DC_2A-n41	Left Side	0.112	0.073	0.185	0.084	0.048	0.408	0.221	0.317	0.814	0.490	0.641
	Right Side	0.211	0.215	0.426	0.021	0.420	0.230	0.599	0.867	1.255	1.046	1.076
	Top Side	0.053	0.282	0.335	0.027	0.023	0.055	0.060	0.385	0.450	0.422	0.413
	Bottom Side	0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069		
	Front Side	0.384	0.394	0.778	0.092	0.382						

(3700-3980MHz)	Right Side	0.422		0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.042	1.072
		Top Side	0.435	0.159	0.594	0.027	0.023	0.055	0.060	0.644	0.709	0.672
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.069
		Front Side	0.388	0.401	0.787	0.092	0.382	0.231	0.193	1.261	1.211	1.400
		Back Side	0.489	0.281	0.770	0.125	0.173	0.262	0.326	1.068	1.358	1.205
		Left Side	0.113	0.326	0.439	0.084	0.048	0.408	0.221	0.571	1.068	0.895
		Right Side	0.422		0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.072
		Top Side	0.435	0.072	0.507	0.027	0.023	0.055	0.060	0.557	0.622	0.585
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.069
		Front Side	0.384	0.374	0.758	0.092	0.382	0.231	0.193	1.232	1.182	1.371
(3700-3980MHz)	DC_5A-n77	Back Side	0.550	0.340	0.890	0.125	0.173	0.262	0.326	1.188	1.478	1.341
		Left Side	0.226	0.709	0.935	0.084	0.048	0.408	0.221	1.067	1.564	1.240
		Right Side	0.271		0.271	0.021	0.420	0.230	0.599	0.712	1.100	0.891
		Top Side	0.209	0.159	0.388	0.027	0.023	0.055	0.060	0.418	0.483	0.446
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.384	0.401	0.785	0.092	0.382	0.231	0.193	1.259	1.209	1.070
		Back Side	0.550	0.281	0.831	0.125	0.173	0.262	0.326	1.129	1.419	1.282
		Left Side	0.226	0.326	0.552	0.084	0.048	0.408	0.221	0.684	1.181	0.857
		Right Side	0.271		0.271	0.021	0.420	0.230	0.599	0.712	1.100	0.891
		Top Side	0.209	0.072	0.281	0.027	0.023	0.055	0.060	0.331	0.396	0.368
(3700-3980MHz)	DC_7A-n77	Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.433	0.374	0.867	0.092	0.382	0.231	0.193	1.261	1.231	1.092
		Back Side	0.551	0.340	0.891	0.125	0.173	0.262	0.326	1.189	1.479	1.342
		Left Side	0.175	0.709	0.884	0.084	0.048	0.408	0.221	1.016	1.513	1.189
		Right Side	0.261		0.261	0.021	0.420	0.230	0.599	0.702	1.090	0.881
		Top Side	0.475	0.159	0.634	0.027	0.023	0.055	0.060	0.684	0.749	0.721
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.433	0.401	0.834	0.092	0.382	0.231	0.193	1.308	1.258	1.119
		Back Side	0.551	0.281	0.832	0.125	0.173	0.262	0.326	1.130	1.420	1.283
		Left Side	0.175	0.326	0.591	0.084	0.048	0.408	0.221	0.633	1.130	0.806
(3450-3550MHz)	DC_7A-n77	Right Side	0.261		0.261	0.021	0.420	0.230	0.599	0.702	1.090	0.881
		Top Side	0.475	0.072	0.547	0.027	0.023	0.055	0.060	0.597	0.662	0.634
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.302	0.374	0.676	0.092	0.382	0.231	0.193	1.150	1.100	0.961
		Back Side	0.447	0.340	0.787	0.125	0.173	0.262	0.326	1.085	1.375	1.222
		Left Side	0.181	0.709	0.890	0.084	0.048	0.408	0.221	1.022	1.519	1.195
		Right Side	0.324		0.324	0.021	0.420	0.230	0.599	0.765	1.153	0.944
		Top Side	0.080	0.159	0.239	0.027	0.023	0.055	0.060	0.289	0.354	0.317
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.302	0.401	0.703	0.092	0.382	0.231	0.193	1.177	1.127	0.988
(3450-3550MHz)	DC_12A-n77	Back Side	0.447	0.281	0.728	0.125	0.173	0.262	0.326	1.026	1.316	1.179
		Left Side	0.181	0.326	0.507	0.084	0.048	0.408	0.221	0.639	1.136	0.812
		Right Side	0.324		0.324	0.021	0.420	0.230	0.599	0.765	1.153	0.944
		Top Side	0.080	0.072	0.152	0.027	0.023	0.055	0.060	0.202	0.267	0.239
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.502	0.374	0.876	0.092	0.382	0.231	0.193	1.350	1.300	1.161
		Back Side	0.509	0.340	0.849	0.125	0.173	0.262	0.326	1.147	1.437	1.300
		Left Side	0.242	0.709	0.951	0.084	0.048	0.408	0.221	1.083	1.580	1.256
		Right Side	0.284		0.284	0.021	0.420	0.230	0.599	0.725	1.113	0.904
		Top Side	0.108	0.159	0.267	0.027	0.023	0.055	0.060	0.317	0.382	0.354
(3700-3980MHz)	DC_13A-n77	Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.502	0.401	0.903	0.092	0.382	0.231	0.193	1.377	1.327	1.188
		Back Side	0.509	0.281	0.790	0.125	0.173	0.262	0.326	1.088	1.378	1.241
		Left Side	0.242	0.326	0.568	0.084	0.048	0.408	0.221	0.700	1.197	0.873
		Right Side	0.284		0.284	0.021	0.420	0.230	0.599	0.725	1.113	0.904
		Top Side	0.108	0.072	0.180	0.027	0.023	0.055	0.060	0.230	0.295	0.267
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.473	0.374	0.847	0.092	0.382	0.231	0.193	1.321	1.271	1.132
		Back Side	0.523	0.340	0.863	0.125	0.173	0.262	0.326	1.161	1.451	1.314
		Left Side	0.252	0.709	0.961	0.084	0.048	0.408	0.221	1.093	1.590	1.264
(3700-3980MHz)	DC_14A-n77	Right Side	0.309		0.309	0.021	0.420	0.230	0.599	0.750	1.138	0.929
		Top Side	0.102	0.159	0.261	0.027	0.023	0.055	0.060	0.311	0.376	0.348
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.473	0.401	0.874	0.092	0.382	0.231	0.193	1.348	1.298	1.159
		Back Side	0.523	0.281	0.804	0.125	0.173	0.262	0.326	1.102	1.392	1.255
		Left Side	0.252	0.326	0.578	0.084	0.048	0.408	0.221	0.710	1.207	0.883
		Right Side	0.309		0.309	0.021	0.420	0.230	0.599	0.750	1.138	0.929
		Top Side	0.102	0.072	0.174	0.027	0.023	0.055	0.060	0.224	0.289	0.261
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.386	0.374	0.760	0.092	0.382	0.231	0.193	1.234	1.184	1.045
(3700-3980MHz)	DC_25A-n77	Back Side	0.489	0.340	0.829	0.125	0.173	0.262	0.326	1.127	1.417	1.280
		Left Side	0.113	0.709	0.822	0.084	0.048	0.408	0.221	0.954	1.451	1.127
		Right Side	0.422		0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.042
		Top Side	0.435	0.159	0.594	0.027	0.023	0.055	0.060	0.644	0.709	0.672
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.386	0.401	0.787	0.092	0.382	0.231	0.193	1.261	1.211	1.072
		Back Side	0.489	0.281	0.770	0.125	0.173	0.262	0.326	1.068	1.358	1.221
		Left Side	0.113	0.326	0.439	0.084	0.048	0.408	0.221	0.571	1.068	0.744
		Right Side	0.422		0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.042
		Top Side	0.435	0.072	0.507	0.027	0.023	0.055	0.060	0.557	0.622	0.585
(3450-3550MHz)	DC_25A-n77	Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.069
		Front Side	0.561	0.374	0.935	0.092	0.382	0.231	0.193	1.409	1.359	1.220
		Back Side	0.459	0.340	0.799	0.125	0.173	0.262	0.326	1.097	1.387	1.250
		Left Side	0.207	0.709	0.916	0.084	0.048	0.408	0.221	1.048	1.545	1.221
		Right Side	0.275		0.275	0.021	0.420	0.230	0.599	0.716	1.104	0.895
		Top Side	0.544	0.159	0.703	0.027	0.023	0.055	0.060	0.753	0.818	0.790
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.561	0.401	0.962	0.092	0.382	0.231	0.193	1.436	1.386	1.247
		Back Side	0.459	0.281	0.740	0.125	0.173	0.262	0.326	1.038	1.328	1.191
		Left Side	0.207	0.326	0.533	0.084	0.048	0.408	0.221	0.665	1.162	0.838
(3450-3550MHz)	DC_26A-n77	Right Side	0.275		0.275	0.021	0.420	0.230	0.599	0.716	1.104	0.895
		Top Side	0.544	0.072	0.616	0.027	0.023	0.055	0.060	0.666	0.731	0.703
		Bottom Side	0.000		0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058
		Front Side	0.272	0.374	0.646	0.092	0.382	0.231	0.193	1.120	1.070	0.931
		Back Side	0.663	0.340	1.003	0.125	0.173	0.262	0.326	1.301	1.591	1.454
		Left Side	0.044	0.709	0.753	0.084	0.048	0.408	0.221	0.885	1.382	1.058</

DC_5A-n78 (3450-3550MHz)	Left Side	0.226	0.343	0.569	0.084	0.048	0.408	0.221	0.701	1.198	0.874	1.025
	Right Side	0.271		0.271	0.021	0.420	0.230	0.599	0.712	1.100	0.891	0.921
	Top Side	0.209	0.019	0.228	0.027	0.023	0.055	0.060	0.278	0.343	0.315	0.306
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.433	0.298	0.731	0.092	0.382	0.231	0.193	1.205	1.155	1.016	1.344
DC_7A-n78 (3700-3980MHz)	Back Side	0.551	0.293	0.844	0.125	0.173	0.262	0.326	1.142	1.432	1.295	1.279
	Left Side	0.175	0.511	0.686	0.084	0.048	0.408	0.221	0.818	1.315	0.991	1.142
	Right Side	0.261		0.261	0.021	0.420	0.230	0.599	0.702	1.090	0.881	0.911
	Top Side	0.475	0.104	0.579	0.027	0.023	0.055	0.060	0.629	0.694	0.666	0.657
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
DC_7A-n78 (3450-3550MHz)	Front Side	0.433	0.244	0.677	0.092	0.382	0.231	0.193	1.151	1.101	0.962	1.290
	Back Side	0.551	0.187	0.738	0.125	0.173	0.262	0.326	1.036	1.326	1.189	1.173
	Left Side	0.175	0.343	0.518	0.084	0.048	0.408	0.221	0.950	1.147	0.823	0.874
	Right Side	0.261		0.261	0.021	0.420	0.230	0.599	0.702	1.090	0.881	0.911
	Top Side	0.475	0.019	0.494	0.027	0.023	0.055	0.060	0.544	0.609	0.581	0.572
DC_12A-n78 (3700-3980MHz)	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.302	0.298	0.600	0.092	0.382	0.231	0.193	1.074	1.024	0.885	1.213
	Back Side	0.447	0.293	0.740	0.125	0.173	0.262	0.326	1.038	1.328	1.191	1.175
	Left Side	0.181	0.511	0.692	0.084	0.048	0.408	0.221	0.824	1.321	0.997	1.148
	Right Side	0.324		0.324	0.021	0.420	0.230	0.599	0.765	1.153	0.944	0.974
DC_12A-n78 (3450-3550MHz)	Top Side	0.080	0.104	0.184	0.027	0.023	0.055	0.060	0.234	0.299	0.271	0.262
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.302	0.244	0.546	0.092	0.382	0.231	0.193	1.020	0.970	0.831	1.159
	Back Side	0.447	0.187	0.634	0.125	0.173	0.262	0.326	0.932	1.222	1.085	1.069
	Left Side	0.181	0.343	0.524	0.084	0.048	0.408	0.221	0.656	1.153	0.829	0.980
DC_13A-n78 (3700-3980MHz)	Right Side	0.324		0.324	0.021	0.420	0.230	0.599	0.765	1.153	0.944	0.974
	Top Side	0.080	0.019	0.099	0.027	0.023	0.055	0.060	0.149	0.214	0.186	0.177
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.502	0.298	0.800	0.092	0.382	0.231	0.193	1.274	1.224	1.085	1.413
	Back Side	0.509	0.293	0.802	0.125	0.173	0.262	0.326	1.100	1.390	1.253	1.237
DC_13A-n78 (3450-3550MHz)	Left Side	0.242	0.511	0.753	0.084	0.048	0.408	0.221	0.885	1.382	1.058	1.209
	Right Side	0.284		0.284	0.021	0.420	0.230	0.599	0.725	1.113	0.904	0.934
	Top Side	0.108	0.104	0.212	0.027	0.023	0.055	0.060	0.262	0.327	0.299	0.290
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.502	0.244	0.746	0.092	0.382	0.231	0.193	1.220	1.170	1.031	1.359
DC_13A-n78 (3450-3550MHz)	Back Side	0.509	0.187	0.696	0.125	0.173	0.262	0.326	0.994	1.284	1.147	1.131
	Left Side	0.242	0.343	0.585	0.084	0.048	0.408	0.221	0.717	1.214	0.890	1.041
	Right Side	0.284		0.284	0.021	0.420	0.230	0.599	0.725	1.113	0.904	0.934
	Top Side	0.108	0.019	0.127	0.027	0.023	0.055	0.060	0.177	0.242	0.214	0.205
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
DC_25A-n78 (3700-3980MHz)	Front Side	0.386	0.298	0.684	0.092	0.382	0.231	0.193	1.158	1.108	0.969	1.297
	Back Side	0.489	0.293	0.782	0.125	0.173	0.262	0.326	1.080	1.370	1.233	1.217
	Left Side	0.113	0.511	0.624	0.084	0.048	0.408	0.221	0.756	1.253	0.929	1.080
	Right Side	0.422		0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.042	1.072
	Top Side	0.435	0.104	0.539	0.027	0.023	0.055	0.060	0.589	0.654	0.626	0.617
DC_25A-n78 (3450-3550MHz)	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.386	0.244	0.630	0.092	0.382	0.231	0.193	1.104	1.054	0.915	1.243
	Back Side	0.489	0.187	0.676	0.125	0.173	0.262	0.326	0.974	1.264	0.915	1.111
	Left Side	0.113	0.343	0.456	0.084	0.048	0.408	0.221	0.588	1.085	0.761	0.912
	Right Side	0.422		0.422	0.021	0.420	0.230	0.599	0.863	1.251	1.042	1.072
DC_26A-n78 (3700-3980MHz)	Top Side	0.435	0.019	0.454	0.027	0.023	0.055	0.060	0.504	0.569	0.541	0.532
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.561	0.298	0.859	0.092	0.382	0.231	0.193	1.333	1.283	1.144	1.472
	Back Side	0.459	0.293	0.752	0.125	0.173	0.262	0.326	1.050	1.340	1.203	1.187
	Left Side	0.207	0.511	0.718	0.084	0.048	0.408	0.221	0.850	1.347	1.023	1.174
DC_26A-n78 (3450-3550MHz)	Right Side	0.275		0.275	0.021	0.420	0.230	0.599	0.716	1.104	0.895	0.925
	Top Side	0.544	0.104	0.648	0.027	0.023	0.055	0.060	0.696	0.763	0.735	0.726
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.561	0.244	0.805	0.092	0.382	0.231	0.193	1.279	1.229	1.090	1.418
	Back Side	0.459	0.187	0.646	0.125	0.173	0.262	0.326	0.944	1.234	1.097	1.081
DC_66A-n78 (3700-3980MHz)	Left Side	0.207	0.343	0.550	0.084	0.048	0.408	0.221	0.682	1.179	0.855	1.006
	Right Side	0.275		0.275	0.021	0.420	0.230	0.599	0.716	1.104	0.895	0.925
	Top Side	0.544	0.019	0.563	0.027	0.023	0.055	0.060	0.613	0.678	0.650	0.641
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
	Front Side	0.564	0.298	0.862	0.092	0.382	0.231	0.193	1.336	1.286	1.147	1.475
DC_66A-n78 (3450-3550MHz)	Back Side	0.632	0.293	0.925	0.125	0.173	0.262	0.326	1.223	1.513	1.376	1.360
	Left Side	0.098	0.511	0.609	0.084	0.048	0.408	0.221	0.741	1.238	0.914	1.065
	Right Side	0.392		0.392	0.021	0.420	0.230	0.599	0.833	1.221	1.012	1.042
	Top Side	0.568	0.104	0.672	0.027	0.023	0.055	0.060	0.722	0.787	0.759	0.750
	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069
DC_66A-n78 (3450-3550MHz)	Front Side	0.564	0.244	0.808	0.092	0.382	0.231	0.193	1.282	1.232	1.093	1.421
	Back Side	0.632	0.187	0.819	0.125	0.173	0.262	0.326	1.117	1.407	1.270	1.254
	Left Side	0.098	0.343	0.441	0.084	0.048	0.408	0.221	0.573	1.070	0.746	0.897
	Right Side	0.392		0.392	0.021	0.420	0.230	0.599	0.833	1.221	1.012	1.042
	Top Side	0.568	0.019	0.587	0.027	0.023	0.055	0.060	0.637	0.702	0.674	0.665
DC_66A-n78 (3450-3550MHz)	Bottom Side			0.000	0.018	0.035	0.034	0.040	0.053	0.074	0.058	0.069