

Plot 65 NR n77 50%RB Back Side 15mm High

Date: 2024/2/6 Communication System: UID 0, 5G NR (0); Frequency: 3930 MHz;Duty Cycle: 1:1 Medium parameters used: f = 3930 MHz; σ = 1.831 S/m; ε_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(6.85, 7.30, 6.98); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 15mm/High/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.572 W/kg

Back Side 15mm/High/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.107 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.132 W/kg

SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.249 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.662 W/kg





SAR Test Report

Plot 66 802.11b Back Side 15mm Middle

Date: 2024/2/1 Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2437 MHz; σ = 1.831 S/m; ϵ_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.18, 7.67, 7.29); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 15mm/Middle/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.172 W/kg

Back Side 15mm/Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.107 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 47.6%

Maximum value of SAR (measured) = 0.180 W/kg





SAR Test Report

Plot 67 802.11a Back Side 15mm High

Date: 2024/2/1 Communication System: UID 0, 802.11a (0); Frequency: 5700 MHz;Duty Cycle: 1:1 Medium parameters used: f = 5700 MHz; σ = 5.38 S/m; ϵ_r = 35.438; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(5.14, 5.41, 5.20); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 15mm/High/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.505 W/kg

Back Side 15mm/High/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=5mm

Reference Value = 0.8260 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.108 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 40.2%

Maximum value of SAR (measured) = 0.642 W/kg





SAR Test Report Plot 68 LTE Band7 1RB Back Side 15mm High(EN-DC)

Date: 2024/2/19 Communication System: UID 0, LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2560 MHz; σ = 1.953 S/m; ε_r = 38.015; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 15mm/High/Area Scan (10x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.514 W/kg

Back Side 15mm/High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.891 V/m; Power Drift = -0.042 dB Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.249 W/kg Smallest distance from peaks to all points 3 dB below = 13 mm Ratio of SAR at M2 to SAR at M1 = 46.6%

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





SAR Test Report Plot 69 LTE Band41 1RB Back Side 15mm Middle(EN-DC)

Date: 2024/2/19 Communication System: UID 0, LTE (0); Frequency: 2549.5 MHz;Duty Cycle: 1:1.58 Medium parameters used (interpolated): f = 2549.5 MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.069$; $\rho = 1000$ kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 15mm/Middle/Area Scan (9x18x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.519 W/kg

Back Side 15mm/Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.43 V/m; Power Drift = -0.16 dB Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.186 W/kg

Smallest distance from peaks to all points 3 dB below = 17.9 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 0.543 W/kg





Plot 70 GSM850 GPRS(4TX) Top Edge 10mm Middle

Date: 2024/1/22 Communication System: UID 0, GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07 Medium parameters used: f = 837 MHz; σ = 0.939 S/m; ϵ_r = 41.856; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(8.66, 9.52, 8.51); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Top Edge 10mm/Middle/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.666 W/kg

Top Edge 10mm/Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.51 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.277 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.8%

Maximum value of SAR (measured) = 0.848 W/kg





Plot 71 GSM1900 GPRS (4TX) Bottom Edge 10mm Low

Date: 2024/2/2 Communication System: UID 0, GPRS 4TX (0); Frequency: 1850.2 MHz;Duty Cycle: 1:2.07 Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.383 S/m; ϵ_r = 39.121; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5°C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.70, 8.25, 7.79); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/Low 2/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.768 W/kg

Bottom Edge 10mm/Low 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.89 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.368 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.839 W/kg





Plot 72 WCDMA Band 2 Bottom Edge 10mm Low

Date: 2024/2/2 Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.384 S/m; ϵ_r = 39.118; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.70, 8.25, 7.79); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/Low 2/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.877 W/kg

Bottom Edge 10mm/Low 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.00 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.840 W/kg; SAR(10 g) = 0.455 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 0.937 W/kg





Plot 73 WCDMA Band 4 Bottom Edge 10mm Middle

Date: 2024/1/19 Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1733 MHz; σ = 1.301 S/m; ε_r = 39.491; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.80, 8.35, 7.88); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/Middle/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.869 W/kg

Bottom Edge 10mm/Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=5mm

Reference Value = 24.47 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.438 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 0.917 W/kg





Plot 74 WCDMA Band 5 Top Edge 10mm Middle

Date: 2024/1/23 Communication System: UID 0, WCDMA (0); Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 837 MHz; σ = 0.939 S/m; ϵ_r = 41.856; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(8.66, 9.52, 8.51); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Top Edge 10mm/Middle/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.394 W/kg

Top Edge 10mm/Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.63 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.711 W/kg

SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.193 W/kg Smallest distance from peaks to all points 3 dB below = 11.2 mm Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.421 W/kg





Plot 75 LTE Band 7 1RB Back Side 10mm Middle

Date: 2024/1/24 Communication System: UID 0, LTE (0); Frequency: 2535 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2535 MHz; σ = 1.94 S/m; ϵ_r = 37.31; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Middle/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 1.00 W/kg

Back Side 10mm/Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.495 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 0.931 W/kg; SAR(10 g) = 0.448 W/kg

Smallest distance from peaks to all points 3 dB below = 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 1.05 W/kg





Plot 76 LTE Band 12 1RB Back Side 10mm High

Date: 2024/1/20 Communication System: UID 0, LTE (0); Frequency: 711 MHz;Duty Cycle: 1:1 Medium parameters used: f = 711 MHz; σ = 0.896 S/m; ε_r = 42.2; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(9.03, 9.80, 9.03); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.307 W/kg

Back Side 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.70 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 0.499 W/kg

SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.206 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.380 W/kg





Plot 77 LTE Band 13 1RB Top Edge 10mm Middle

Date: 2024/1/20 Communication System: UID 0, LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1 Medium parameters used: f = 782 MHz; σ = 0.921 S/m; ε_r = 41.805; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(9.03, 9.80, 9.03); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Top Edge 10mm/Middle/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.309 W/kg

Top Edge 10mm/Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.73 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.136 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 0.314 W/kg





SAR Test Report Plot 78 LTE Band 25 1RB Bottom Edge 10mm Low

Date: 2024/2/3 Communication System: UID 0, LTE (0); Frequency: 1860 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1860 MHz; σ = 1.422 S/m; ε_r = 37.402; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.70, 8.25, 7.79); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/Low/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.38 W/kg

Bottom Edge 10mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.06 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.450 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 1.81 W/kg





Plot 79 LTE Band 26 1RB Back Side 10mm High

Date: 2024/1/22 Communication System: UID 0, LTE (0); Frequency: 841.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 841.5 MHz; σ = 0.941 S/m; ϵ_r = 41.844; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(8.66, 9.52, 8.51); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.372 W/kg

Back Side 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.01 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.209 W/kg

Smallest distance from peaks to all points 3 dB below = 12.1 mm

Ratio of SAR at M2 to SAR at M1 = 68%

Maximum value of SAR (measured) = 0.398 W/kg





Plot 80 LTE Band 41 1RB Back Side 10mm High

Date: 2024/1/26 Communication System: UID 0, LTE (0); Frequency: 2680 MHz;Duty Cycle: 1:1.58 Medium parameters used: f = 2680 MHz; σ = 2.106 S/m; ε_r = 36.793; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.683 W/kg

Back Side 10mm/High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.501 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.292 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

Ratio of SAR at M2 to SAR at M1 = 43.1%

Maximum value of SAR (measured) = 0.778 W/kg





Plot 81 LTE Band 48 50%RB Back Side 10mm High

Date: 2024/1/29 Communication System: UID 0, LTE (0); Frequency: 3690 MHz;Duty Cycle: 1:1.58 Medium parameters used (interpolated): f = 3690 MHz; σ = 3.03 S/m; ε_r = 37.963; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(6.80, 7.27, 6.93); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.993 W/kg

Back Side 10mm/High/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.546 V/m; Power Drift = 0.032 dB

Peak SAR (extrapolated) = 2.39 W/kg

SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.231 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.2%

Maximum value of SAR (measured) = 1.13 W/kg





SAR Test Report Plot 82 LTE Band 66 50%RB Bottom Edge 10mm High

Date: 2024/1/19 Communication System: UID 0, LTE (0); Frequency: 1770 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1770 MHz; σ = 1.358 S/m; ε_r = 37.7; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.80, 8.35, 7.88); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/High/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.22 W/kg

Bottom Edge 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.50 V/m; Power Drift = -0.025 dB

Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.647 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

Maximum value of SAR (measured) = 1.77 W/kg





Plot 83 NR n2 1RB Bottom Edge 10mm High

Date: 2024/2/4 Communication System: UID 0, 5G NR (0); Frequency: 1890 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.422 S/m; ε_r = 38.97; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.70, 8.25, 7.79); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/High/Area Scan (4x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.853 W/kg

Bottom Edge 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.43 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.518 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 1.06 W/kg





SAR Test Report

Plot 84 NR n7 100%RB Back Side 10mm High

Date: 2024/1/27 Communication System: UID 0, 5G NR (0); Frequency: 2560 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2560 MHz; σ = 1.971 S/m; ε_r = 37.231; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.707 W/kg

Back Side 10mm/High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.500 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.368 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 0.765 W/kg





SAR Test Report

Plot 85 NR n26 1RB Back Side 10mm Low

Date: 2024/1/23 Communication System: UID 0, 5G NR (0); Frequency: 824 MHz;Duty Cycle: 1:1 Medium parameters used: f = 824 MHz; σ = 0.934 S/m; ε_r = 41.897; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(8.66, 9.52, 8.51); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Low/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.259 W/kg

Back Side 10mm/Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.98 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.402 W/kg

SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.8%

Maximum value of SAR (measured) = 0.356 W/kg





SAR Test Report

Plot 86 NR n41 50%RB Back Side 10mm Low

Date: 2024/1/28 Communication System: UID 0, 5G NR (0); Frequency: 2546.01 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 2546.01 MHz; σ = 1.953 S/m; ϵ_r = 37.275; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Low/Area Scan (10x18x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.637 W/kg

Back Side 10mm/Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.489 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.280 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 0.637 W/kg





SAR Test Report

Plot 87 NR n48 50%RB Back Side 10mm Low

Date: 2024/1/30 Communication System: UID 0, 5G NR (0); Frequency: 3600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 3600 MHz; σ = 1.831 S/m; ε_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(6.80, 7.27, 6.93); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Low/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.699 W/kg

Back Side 10mm/Low/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.985 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.296 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 0.799 W/kg





Plot 88 NR n66 1RB Bottom Edge 10mm High

Date: 2024/1/21 Communication System: UID 0, 5G NR (0); Frequency: 1760 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1760 MHz; σ = 1.322 S/m; ε_r = 39.351; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.80, 8.35, 7.88); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/High/Area Scan (4x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.917 W/kg

Bottom Edge 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.02 V/m; Power Drift = 0.040 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.451 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 0.959 W/kg





Plot 89 NR n71 50%RB Back Side 10mm Middle

Date: 2024/1/20 Communication System: UID 0, 5G NR (0); Frequency: 680.5 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 680.5 MHz; σ = 0.886 S/m; ϵ_r = 42.316; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(9.03, 9.80, 9.03); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Middle/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.162 W/kg

Back Side 10mm/Middle/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.99 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.116 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.2%

Maximum value of SAR (measured) = 0.202 W/kg





SAR Test Report Plot 90 NR n77 50%RB Back Side 10mm High

Date: 2024/2/6 Communication System: UID 0, 5G NR (0); Frequency: 3930 MHz;Duty Cycle: 1:1 Medium parameters used: f = 3930 MHz; σ = 1.831 S/m; ϵ_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(6.85, 7.30, 6.98); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.699 W/kg

Back Side 10mm/High/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.985 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.252 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 0.729 W/kg





SAR Test Report

Plot 91 802.11b Back Side 10mm Middle

Date: 2024/2/1 Communication System: UID 0, 802.11b (0); Frequency: 2437 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2437 MHz; σ = 1.831 S/m; ϵ_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.18, 7.67, 7.29); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Middle/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.499 W/kg

Back Side 10mm/Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.985 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.221 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 0.529 W/kg





SAR Test Report

Plot 92 802.11a Right Edge 10mm Low

Date: 2024/1/25 Communication System: UID 0, 802.11a (0); Frequency: 5180 MHz;Duty Cycle: 1:1 Medium parameters used: f = 5180 MHz; σ = 4.75 S/m; ε_r = 36.766; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(5.65, 5.99, 5.81); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Right Edge 10mm/Low/Area Scan (6x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 1.47 W/kg

Right Edge 10mm/Low/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.757 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 0.733 W/kg; SAR(10 g) = 0.236 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 44.6%

Maximum value of SAR (measured) = 1.65 W/kg





Plot 93 Bluetooth DH5 Back Side 10mm Middle

Date: 2024/2/1 Communication System: UID 0, BT (0); Frequency: 2441 MHz;Duty Cycle: 1:1.32 Medium parameters used: f = 2441 MHz; σ = 1.834 S/m; ε_r = 37.585; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.18, 7.67, 7.29); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Middle/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.041 W/kg

Back Side 10mm/Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.198 V/m; Power Drift = 0.100 dB

Peak SAR (extrapolated) = 0.093 W/kg

SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below=9.8mm

Ratio of SAR at M2 to SAR at M1 = 46.6%

Maximum value of SAR (measured) = 0.046 W/kg





Plot 94 WCDMA Band 2 Bottom Edge 0mm Low

Date: 2024/2/2 Communication System: UID 0, WCDMA (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.384 S/m; ϵ_r = 39.118; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.70, 8.25, 7.79); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 0mm/Low/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.920 W/kg

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

Reference Value = 26.760 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 12.4 W/kg

SAR(1 g) = 4.740 W/kg; SAR(10 g) = 2.380 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 39.7%

Maximum value of SAR (measured) = 5.460 W/kg





SAR Test Report

Plot 95 WCDMA Band 4 Bottom Edge 0mm Low

Date: 2024/1/19 Communication System: UID 0, WCDMA (0); Frequency: 1712.4 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.312 S/m; ϵ_r = 37.834; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.80, 8.35, 7.88); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 0mm/Low/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 6.450 W/kg

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

Reference Value = 80.040 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 16.3 W/kg

SAR(1 g) = 5.060 W/kg; SAR(10 g) = 2.410 W/kg

Smallest distance from peaks to all points 3 dB below = 14.8 mm

Ratio of SAR at M2 to SAR at M1 = 28.3%

Maximum value of SAR (measured) = 7.200 W/kg





SAR Test Report Plot 96 LTE Band 66 50%RB Bottom Edge 0mm High

Date: 2024/1/21 Communication System: UID 0, LTE (0); Frequency: 1770 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1770 MHz; σ = 1.358 S/m; ε_r = 37.7; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.80, 8.35, 7.88); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 10mm/High/Area Scan (4x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 6.430 W/kg

Bottom Edge 10mm/High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 79.020 V/m; Power Drift = -0.053 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 4.950 W/kg; SAR(10 g) = 2.330 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 8.900 W/kg





SAR Test Report

Plot 97 NR n2 50%RB Bottom Edge 0mm Low

Date: 2024/2/4 Communication System: UID 0, 5G NR (0); Frequency: 1870 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1860 MHz; σ = 1.39 S/m; ε_r = 39.098; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.70, 8.25, 7.79); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 0mm/Low/Area Scan (4x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.04 W/kg

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

Reference Value = 64.17 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 5.27 W/kg; SAR(10 g) = 2.57 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 6.34 W/kg





SAR Test Report

Plot 98 NR n48 50%RB Back Side 0mm Low

Date: 2024/1/30 Communication System: UID 0, 5G NR (0); Frequency: 3600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 3600 MHz; σ = 1.831 S/m; ε_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(6.80, 7.27, 6.93); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 0mm/Middle/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 6.499 W/kg

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

Reference Value = 4.985 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 12.01 W/kg

SAR(1 g) = 5.72 W/kg; SAR(10 g) = 2.14 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 6.77 W/kg





Plot 99 NR n66 50%RB Bottom Edge 0mm High

Date: 2024/1/21 Communication System: UID 0, 5G NR (0); Frequency: 1760 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1760 MHz; σ = 1.322 S/m; ϵ_r = 39.351; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.80, 8.35, 7.88); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Bottom Edge 0mm/High/Area Scan (4x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.48 W/kg

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

Reference Value = 71.50 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 13.4 W/kg

SAR(1 g) = 4.83 W/kg; SAR(10 g) = 2.28 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 44.4%

Maximum value of SAR (measured) = 6.98 W/kg





SAR Test Report Plot 100 NR n77 50%RB Back Side 0mm High

Date: 2024/2/6 Communication System: UID 0, 5G NR (0); Frequency: 3930 MHz;Duty Cycle: 1:1 Medium parameters used: f = 3930 MHz; σ = 1.831 S/m; ε_r = 37.663; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(6.85, 7.30, 6.98); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 0mm/High/Area Scan (12x20x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 5.49 W/kg

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

Reference Value = 4.985 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 11.01 W/kg

SAR(1 g) = 4.97 W/kg; SAR(10 g) = 1.94 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 6.33 W/kg




Plot 101 LTE Band7 1RB Back Side 10mm High(EN-DC) Date: 2024/2/19 Communication System: UID 0, LTE (0); Frequency: 2560 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2560 MHz; σ = 1.953 S/m; ε_r = 38.015; ρ = 1000 kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/High 2/Area Scan (10x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.520 W/kg

Back Side 10mm/High 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.576 V/m; Power Drift = 0.040 dB Peak SAR (extrapolated) = 1.010 W/kg **SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.258 W/kg** Smallest distance from peaks to all points 3 dB below = 14.2 mm Ratio of SAR at M2 to SAR at M1 = 48.6% Maximum value of SAR (measured) = 0.545 W/kg





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SAR Test Report Plot 102 LTE Band41 1RB Back Side 10mm Middle(EN-DC)

Date: 2024/2/19 Communication System: UID 0, LTE (0); Frequency: 2549.5 MHz;Duty Cycle: 1:1.58 Medium parameters used (interpolated): f = 2549.5 MHz; $\sigma = 1.942$ S/m; $\epsilon_r = 38.069$; $\rho = 1000$ kg/m³ Ambient Temperature:22.3 °C Liquid Temperature: 21.5 °C Phantom section: Flat Section DASY5 Configuration: Sensor-Surface: 1.4mm (Mechanical Surface Detection) Probe: EX3DV4 - SN3677; ConvF(7.10, 7.59, 7.21); Calibrated: 2023/7/20 Electronics: DAE4 SN1317; Calibrated: 2023/9/13 Phantom: SAM 2; Type: QD000P40CD; Serial: TP:1666 Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Back Side 10mm/Middle/Area Scan (9x18x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.651 W/kg

Back Side 10mm/Middle/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.448 V/m; Power Drift = 0.044 dB Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.317 W/kg

Smallest distance from peaks to all points 3 dB below = 15.1 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 0.660 W/kg



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ANNEX D: Probe Calibration Certificate (SN: 3677)

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e Swis ultilater	a by the Swiss Accred as Accreditation Serv ral Agreement for the	ice is one of the signator recognition of calibratio	ies to the EA n certificates	
ient	TA Shanghai City		Certificate No.	X-3677_Jul23
CAL	IBRATION CI	ERTIFICATE		
Object	1	EX3DV4 - SN:36	77	
Calibra	tion procedure(s)	QA CAL-01.v10, QA CAL-25.v8 Calibration proce	QA CAL-12.v10, QA CAL-14.v7, edure for dosimetric E-field probes	QA CAL-23.v6, s
Calibra	ation date	July 20, 2023		
Calibra	ation Equipment used (Marte critical for calibration	1)	
Calibra Primary	y Standards		Cal Date (Certificate No.)	Scheduled Calibration
Calibra Primary Power	y Standards meter NRP2	ID SN: 104778	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805)	Scheduled Calibration Mar-24
Primary Power I Power I	y Standards meter NRP2 sensor NRP-Z91 IAK-3.5 (weinhted)	ID SN: 104778 SN: 103244 SN: 103244	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 20-Oct-22 (OCE-DAK3 5-1249, Oct22)	Scheduled Calibration Mar-24 Mar-24 Oct-23
Primary Power : OCP D OCP D	y Standards meter NRP2 sensor NRP-Z91 AK-3.5 (weighted) AK-12	ID SN: 104778 SN: 103244 SN: 1249 SN: 1249 SN: 1016	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 20-Oct-22 (OCP-DAK35-1249_Oct22) 20-Oct-22 (OCP-DAK12-1016_Oct22)	Scheduled Calibration Mar-24 Mar-24 Oct-23 Oct-23
Primary Power 1 Power 1 OCP D OCP D Referen	y Standards meter NRP2 sensor NRP-291 IAK-3.5 (weighted) IAK-12 nce 20 dB Attenuator	ID SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x)	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 20-Oct-22 (OCP-DAK3.5-1249_Oct22) 20-Oct-22 (OCP-DAK12-1016_Oct22) 30-Mar-23 (No. 217-03809)	Scheduled Calibration Mar-24 Mar-24 Oct-23 Oct-23 Mar-24
Primary Power i Power i OCP D OCP D Referen DAE4	y Standards meter NRP2 sensor NRP-Z91 IAK-3.5 (weighted) IAK-12 nce 20 dB Attenuator	ID SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 20-Oct-22 (OCP-DAK3.5-1249_Oct22) 20-Oct-22 (OCP-DAK12-1016_Oct22) 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. DAE4-660_Mar23)	Scheduled Calibration Mar-24 Mar-24 Oct-23 Oct-23 Mar-24 Mar-24
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Calibra Primary Power I Power I OCP D OCP D Referen DAE4 Referen Second	y Standards meter NRP2 sensor NRP-291 IAK-3.5 (weighted) AK-12 nce 20 dB Attenuator nce Probe ES3DV2 dary Standards	ID SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 20-Oct-22 (OCP-DAK3.5-1249_Oct22) 20-Oct-22 (OCP-DAK12-1016_Oct22) 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. DAE4-660_Mar23) 06-Jan-23 (No. ES3-3013_Jan23) Check Date (in house)	Scheduled Calibration Mar-24 Mar-24 Oct-23 Oct-23 Oct-23 Mar-24 Mar-24 Jan-24 Scheduled Check
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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S

Schweizerischer Kalibrierdienst

C Service suisse d'étalonnage

- Servizio svizzero di taratura
- S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
 calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx, y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY4 with allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX-3677_Jui23

Page 2 of 22



July 20, 2023

Parameters of Probe: EX3DV4 - SN:3677

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (µV/(V/m) ²) A	0.40	0.45	0.39	±10.1%
DCP (mV) B	101.0	102.0	102.5	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	125.6	±1.9%	±4.7%
	0.000	Y	0.00	0.00	1.00		121.0		~255025C101.
		Z	0.00	0.00	1.00		122.5		
10352	Pulse Waveform (200Hz, 10%)	X	20.00	89.56	19.55	10.00	60.0	±2.7%	±9.6%
		Y	20.00	88.90	19.41	1930305-1.5	60.0	and the second	2000.0000
		Z	20.00	87.18	18.16	1	60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	91.43	19.38	6.99	80.0	±1.5%	±9.6%
		Y	20.00	89.58	18.35	1	80.0	-	
		Z	20.00	88.39	17.59	1	80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	95.46	19.97	3.98	95.0	±1.3%	±9.6%
		Y	20.00	89.26	16.58		95.0 95.0		
		Z	20.00	91.18	17.61				
10355	Pulse Waveform (200Hz, 60%)	X	20.00	99.05	20.33	2.22	120.0	±1.2%	±9.6%
		Y	20.00	83.90	12.80		120.0		
		Z	20.00	93.78	17.60	1	120.0	1	
10387	QPSK Waveform, 1 MHz	X	1.51	66.00	14.40	1.00	150.0	±3.5%	±9.6%
	Contraction of the second s	Y	1.29	64.03	13.00	bittin	150.0	1	
		Z	1.42	66.25	14.23	1	150.0	1	
10388	QPSK Waveform, 10 MHz	X	2.03	67.08	15.21	0.00	150.0	±1.0%	±9.6%
	A A	Y	1.77	65.25	14.04	1	150.0	1	
		Z	1.91	66.70	15.02	1	150.0	1	
10396	64-QAM Waveform, 100 kHz	X	2.64	69.26	18.29	3.01	150.0	±1.1%	±9.6%
		Y	2.33	66.49	16.64		150.0		
		Z	2.02	65.39	16.32	1	150.0		
10399	64-QAM Waveform, 40 MHz	X	3.37	66.69	15.51	0.00	150.0	±2.6%	±9.6%
	 Deservicing Court Internet Represent 221141 (1920) 22140. 	Y	3.33	66.54	15.28	1 Martine	150.0		
		Z	3.28	66.50	15.39		150.0	1	
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.70	65.49	15.43	0.00	150.0	±4.5%	±9.6%
1015333430		Y	4.69	65.54	15.36	1 0.65577	150.0	200103000000	CHERGEN MES
		Z	4.55	65.38	15.33	13 150.0	150.0	1	

Note: For details on UID parameters see Appendix

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

A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).
 ^B Linearization parameter uncertainty for maximum specified field strength.
 ^E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX-3677_Jul23

Page 3 of 22

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EX3DV4 - SN:3677

July 20, 2023

Parameters of Probe: EX3DV4 - SN:3677

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms V ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
x	36.2	270.59	35.62	12.53	0.00	5.08	0.93	0.23	1.01
y	35.7	269.30	35.97	8.51	0.37	5.07	0.00	0.44	1.01
z	30.7	227.00	34.93	10.81	0.00	5.06	0.00	0.25	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-66.7°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

Certificate No: EX-3677_Jul23

Page 4 of 22

SAR Test Report

TA

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July 20, 2023

Parameters of Probe: EX3DV4 - SN:3677

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
13	55.0	0.75	15.21	15.21	15.21	0.00	1.25	±13.3%
750	41.9	0.89	9.03	9.80	9.03	0.45	1.27	±12.0%
835	41.5	0.90	8.66	9.52	8.51	0.43	1.27	±12.0%
1750	40.1	1.37	7.80	8.35	7.88	0.29	1.27	±12.0%
1900	40.0	1.40	7.70	8.25	7.79	0.31	1.27	±12.0%
2000	40.0	1.40	7.55	8.11	7.69	0.32	1.27	±12.0%
2300	39.5	1.67	7.45	8.00	7.60	0.33	1.27	±12.0%
2450	39.2	1.80	7.18	7.67	7.29	0.32	1.27	±12.0%
2600	39.0	1.96	7.10	7.59	7.21	0.32	1.27	±12.0%
3300	38.2	2.71	6.95	7.41	7.04	0.35	1.27	±14.0%
3500	37.9	2.91	6.87	7.33	6.99	0.34	1.27	±14.0%
3700	37.7	3.12	6.80	7.27	6.93	0.33	1.27	±14.0%
3900	37.5	3.32	6.85	7.30	6.98	0.33	1.27	±14.0%
4100	37.2	3.53	6.65	7.07	6.82	0.34	1.27	±14.0%
4400	36.9	3.84	6.55	6.97	6.67	0.34	1.27	±14.0%
4600	36.7	4.04	6.50	6.92	6.63	0.35	1.27	±14.0%
4800	36.4	4.25	6.40	6.81	6.55	0.39	1.27	±14.0%
4950	36.3	4.40	6.00	6.39	6.14	0.44	1.36	±14.0%
5250	35.9	4.71	5.65	5.99	5.81	0.43	1.53	±14.0%
5600	35.5	5.07	4.92	5.23	5.04	0.41	1.75	±14.0%
5750	35.4	5.22	5.14	5.41	5.20	0.39	1.84	±14.0%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the Prequency validity above southiz of ±100 kHz only applies to DASY V4.4 and ingler (see Fage 2), ease its resulted to ±00 kHz. The differentiations of the convertient of the indicated frequency band. Frequency band and the set of the indicated frequency band and the set of the indicated frequency band. Frequency band and the set of the indicated frequency band and the set of the indicated frequency band. Frequency band and the set of the indicated frequency band and the set of the indicated frequency band. Frequency band and the set of the indicated frequency band and the set of the indicated frequency band. Frequency band and the set of the indicated frequency band and the set of the

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No: EX-3677_Jul23

Page 5 of 22



July 20, 2023

Parameters of Probe: EX3DV4 - SN:3677

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
6500	34.5	6.07	5.51	5.85	5.61	0.20	2.00	±18.6%

^C Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. ^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for *c* and *σ* by less than $\pm10\%$ from the target values (typically better than $\pm6\%$) and are valid for TSL with deviations of up to $\pm10\%$.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

Page 6 of 22

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EX3DV4 - SN:3677

July 20, 2023



Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)

Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

Certificate No: EX-3677_Jul23

Page 7 of 22





Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

 0.5
 0

 -0.5
 0

 0
 60

 100 MHz
 + 600 MHz

 1800 MHz
 + 2500 MHz

 Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

Certificate No: EX-3677_Jul23

Page 8 of 22

SAR Test Report

TA

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July 20, 2023



10-2

10-1

--- not compensated

Certificate No: EX-3677_Jul23

-2

Page 9 of 22

Uncertainty of Linearity Assessment: ±0.6% (k=2)

100

SAR [mW/cm³]

101

compensated

10²

SAR Test Report

TA

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July 20, 2023

Conversion Factor Assessment



Certificate No: EX-3677_Jul23

Page 10 of 22



July 20, 2023

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetcoth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECI	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAG	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	0.52	19.0
10059	CAB	IEEE 802.110 WIFI 2.4 GHZ (DSSS, 2 M0ps)	WLAN	2.12	70.0 73:0
10060	CAB	IEEE 802.110 WIFI 2.4 GHz (DSSS, 5.5 M0ps)	WLAN	2,03	19.0
10001	CAD	IEEE 802 11a/b W/E 5 GHz (OEDM 6 Mbps)	WIAN	8.69	19.0
10082	CAD	IEEE 802 11a/h WIFI 5 GHz (OFDM, 6 Mops)	WIAN	8.63	+9.6
10063	CAD	IEEE 802 11a/h WIFI 5 GHz (OFDM, 5 Mops)	WLAN	9.00	+9.6
10065	CAD	IEEE 802 11a/h WIFI 5 GHz (OFDM, 12 Mops)	WIAN	9.00	+9.6
10066	CAD	IEEE 802 11a/h WIEL5 GHz (OFDM, 10 Mbps)	WLAN	9.38	+9.6
10067	CAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAH	LTE-FDD (SC-FOMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FUD (SC-FUMA, 100% HB, 5 MHZ, QPSK)	LIE-FDD	5.75	±9.6
10111	CAH	LIE-FUU (50-FUMA, 100% HB, 5 MHZ, 16-QAM)	LIE-FDD	6,44	±9.6

Certificate No: EX-3677_Jul23

Page 11 of 22



July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	GAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	19.6
10119	CAD	IEEE 802.110 (H1 MIX80, 135 M0ps, 54-GAM)	UTE EDD	0.13	19.0 19.0
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	ITEEDD	6.49	19.0
10140	CAF	LTE-FDD (SC-FDMA, 100% RD, 15MR2, 04-QAW)	ITE-EOD	5.73	+9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, SMHz, GFSK)	ITEEDD	6.95	+9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% BB, 3MH2, 10-GAM)	LTE-EDD	6.65	+9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% BB, 14MHz, OPSK)	LTE-FDD	5.76	+9.6
10146	CAG	ITE-FDD (SC-FDMA_100% 8B_1.4 MHz_16-QAM)	LTE-FDD	6.41	+9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% BB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	+9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% BB, 20 MHz, 16-QAM)	LTE-FDD	6.42	+9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 HB, 20 MHz, 64-QAM)	LIE-FOD	6.49	±9.6
10172	CAH	LTE-TOD (SC-FDMA, 1 RB, 20 MHZ, QPSK)	LIE-TOD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHZ, 16-QAM)	LIE-TOD	9.48	±9.6
10174	CAH	LTE FOD (SC FOMA, 1 RB, 20 MHz, 64-CAM)	LIE-IDD	6 79	10.0
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10MHz, GFSK)	LIE-FOD	6.52	10.0
10170	CAL	ITE EOD (SC EDMA 1 DB EMUT OPSK)	LIE-FOD	6.72	10.0
10178	CAH	LTE-EDD (SC-EDMA 1 BB 5MHz 16-OAM)	LTE-EDD	6.52	+9.6
10179	CAH	LTE-EDD (SC-EDMA 1 BB 10MHz 64-OAM)	ITE-EDD	6.50	+9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	+9.6
10181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, OPSK)	LTE-FDD	5.72	+9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
10195	CAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
10198	CAD	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
10219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
10222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 15-QAM)	WLAN	8.48	±9.6
10224	CAD	1EEE 802.110 (H1 MIX80, 150 MD0S, 64-QAM)	WLAN	8.08	±9.6

Certificate No: EX-3677_Jul23

Page 12 of 22



Report No.: R2401A0062-S1V2

EX3DV4 - SN:3677

July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TOD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-TOD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SG-FDMA, 1 HB, 3 MHz, QPSK)	LIE-TOD	9.19	19.6
10232	CAH	LTE-TOD (SC-FDMA, 1 HB, 5 MHZ, 16-QAM)	LIE-TOD	9.48	±9.0
10233	CAH	ITE TOD (SC-FUMA, 1 BB, SMITZ, 04-GAW)	ITE-TOD	0.25	19.0
10234	CAH	(TE-TDD (SC-EDMA, 1 BB 10MHz, 16-0AM)	LTE-TOD	9.48	+9.6
10236	CAH	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 10 GMM)	LTE-TOD	10.25	+9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 BB, 10 MHz, OP GHA)	LTE-TOD	9.21	±9.6
10238	CAG	LTE-TOD (SC-FDMA, 1 BB, 15MHz, 16-OAM)	LTE-TOD	9.48	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.82	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9,46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% HB, 10 MHz, 64-QAM)	LIE-IDD	10.17	±9.6
10252	CAH	LTE-TOD (SC-FDMA, 50% HB, 10 MHZ, QPSK)	LIE-TOD	9.24	±9.6
10253	CAG	LTE TOD (SC-FDMA, 50% RD, 15 MHz, 10-CAM)	LIE-TOD	9.90	19.0
10209	CAG	ITE TOD (SC-PDMA, 50% PB, 15 MHz, 04-QAM)	LTE-TOD	9.20	10.0
10250	CAC	TE-TDD (SC-EDMA 100% BB 1 4 MHz 16,04M)	LITE-TOD	0.00	+9.6
10257	CAC	TE-TOD (SC-FDMA, 100% RB, 14 MHz, 10 GAM)	ITE-TDD	10.08	+9.6
10258	CAC	TE-TDD (SC-EDMA 100% BB 14MHz OPSK)	ITE-TOD	9.34	+9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% BB, 3MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LIE-TOD (SCHUMA, 100% HB, 15 MHZ, QPSK)	LIE-IUD	9.58	±9.6
102/4	CAC	UMT ST DD (HOUPA, OUDIESED, JUPP HEIB.10)	WCDMA	4.8/	19.0
10275	CAA	PHS (OPSK)	PHS	11.81	29.0
10279	CAA	PHS (OPSK BW 884 MHz Rolloff 0.5)	PHS	11.81	+9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	+9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	12.03	±9,6
10302	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.6
10303	AAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6
10304	AAA	TEEE 802.166 WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	XAMIW	11.86	±9.6
10305	AAA	IEEE 002.166 WIMAX (31:15, 10 ms, 10 MHz, 64 QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6
10306	AAA	LIECE 002.109 WIMAX (29:16, 10 MS, 10 MHZ, 64QAM, POSC, 18 SYMBOIS)	WIMAX	14.67	±9.6

Certificate No: EX-3677_Jul23

Page 13 of 22



EX3DV4 - SN:3677

July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unce k = 2
10307	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	±9.6
0310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
0311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
0313	AAA	IDEN 1:3	IDEN	10.51	±9.6
0314	AAA	IDEN 1:6	IDEN	13.48	+9.6
0315	AAB	IEEE 802 11b WIFI 2 4 GHz (DSSS 1 Mbos 96pc duty cycle)	WLAN	1.71	+9.6
0316	AAR	IEEE 802 11a WIEI 2 4 GHz (EBB-OEDM 6 Mbos 96ac duty cycle)	WLAN	8.36	+9.6
10317	AAD	IEEE 802 11a WEE EGUT (OEDM & Mbor, Office duty cycle)	WEAN	0.30	10.0
10252	000	Bules Meueleem (200Hz 100/)	Canadia	0.30	19.0
0352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.0
0353	MAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9,6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	+9.6
10402	AAE	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	+9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	10.0
10404	AAR	CDMA2000 (1xEV.DO Bey A)	CDMA2000	3.70	10.0
10404	AAD	CDMA2000 (122 + 00, Hev. A)	CDMA2000	3.77	±9.0
10400	AAU	LTE TOD (CO FDMA + DD 40.00) ODD(10 0.000 - 0.04 200 0.000 - 0.04 1	CDMA2000	5.22	±9.6
10410	AAH	LIE-TOD (SC-PDMA, 1 RB, 10 MHz, QPSK, UL Subirame=2,3,4,7,8,9, Subirame Coni=4)	LIE-IDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbos, 16-QAM)	WLAN	8.45	+9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbos, 64-QAM)	WLAN	8.41	+9.6
10430	AAE	LTE-EDD (OEDMA 5MHz E-TM 3.1)	ITE-EDD	8.29	+0.6
10491	AAE	TE EDD (OEDMA 10MHz E-TM 2.1)	LITE EDD	0.20	19.0
10401	AAD	TE EDD (OFDMA, TEMUS, ETM 3.1)	LTE-PDD	0.30	19.0
10432	AAD	LTE EDD (OFDMA, ISMR2, E-IM 3.1)	LIE-FUU	8.34	±9.6
10433	AAD	LIE-FDD (OFDMA, 20 MHZ, E-1M 3.1)	LIE-FUD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7,56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	+9.6
10456	AAC	IEEE 802 11ac WiFi (160 MHz, 64-OAM, 99oc duty cycle)	WIAN	8.63	+9.6
10457	AAR	UMTS-EDD (DC-HSDPA)	WCDMA	6.62	10.6
10458	444	CDMA2000 (1xEV-DO Rev B 2 corriers)	CDMA2000	0.02	10.0
10450	AAA	CDMA2000 (1vEV.DO, Rev. B.3 carriers)	CDMA2000	0.05	13.0
10409	AAD	UNITS EDD (MCDMA, AMD)	COMA2000	8.25	19.6
10400	MAD	UNITS-FDD (WGDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LIE-TOD (50-FDMA, 1 HB, 1.4 MHZ, QPSK, UL Subframe=2,3,4,7,8,9)	LIE-IDD	7.82	±9.6
10462	AAC	LTE-TDD (SG-FDMA, 1 HB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	+9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.32	+9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UI, Subframe=2.3.4.7.8.9)	LTE-TOD	8.56	10.6
10470	AAG	ITE-TOD (SC-FDMA 1 BB 10 MHz OPSK 11 Subtrama-224780)	ITE-TOD	7.00	19.0
10474	AAC	TE TOD (SC EDMA 1 DD 10MU- 10 0M UL Outrame 204 700)	LITE TOD	7.82	19.6
1140411	I MMG	LIL 199 (991 0007, 110, 10 0016, 10 0018, 01 00018118=2,3,4,7,8,8)	LIE+IUU	8.32	±9.6

Certificate No: EX-3677_Jul23

Page 14 of 22

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EX3DV4 - SN:3677

July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3.4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframs=2,3,4,7,8,9)	LTE-TOD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE+TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10,490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe+2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAC	IEEE 802.11a/h WiFi 5/GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mops, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mops, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAC	IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAC	IEEE 802.11ac WIFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAC	IEEE 802.11ac WIFI (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAC	IEEE 802.11ac WIFI (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAC	IEEE 802.11ac WiFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8,45	±9.6
10535	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10536	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAC	IEEE 802.11ac WIFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
10540	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	+9.6

Certificate No: EX-3677_Jul23

Page 15 of 22

SAR Test Report

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July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10541	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 99pc duty cycle)	WLAN	8,46	±9.6
10542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAC	IEEE 802,11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9,6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10583	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10590	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
10605	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10608	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

Certificate No: EX-3677_Jul23

Page 16 of 22

July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFI (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8,82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	TEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAG	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	TEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAG	TEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC	TEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.95	±9.6
10626	AAC	TEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAG	IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 002, 11ac WIF1 (80 MHz, MUSZ, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE over i lac with (ou MHz, MUS3, 9000 duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 006, Hac WIFI (80 MHz, MUS4, 900C 000 CVCIB)	WLAN	8.72	±9.6
10031	AAC	IEEE 802 11ac WIFI (60 MIRZ, MCGO, 300C 0019 C9CI6)	WLAN	8.81	±9.6
10032	AAC	IEEE 802 Trac WIFI (00 MHz, MCS6, 90pc outy cycle)	WLAN	8.74	±9.0
10033	AAC	IEEE 802 Hac WIFI (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	78.0
10034	AAC	IEEE 802,1180 WIFI (00 MHz, MCS8, supp duty cycle)	WLAN	8.80	19.6
10635	AAD	IEEE 802.1180 WIFI (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	19.6
10630	AAD	IEEE 802.11ac WIFI (160 MHz, MCS1, 80pc duty cycle)	WEDON IAN	8.83	19.0
10637	AAD	IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle)	WLDUN IAU ANI	8.79	19.0
10630	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 90pc duty cycle)	WEDON IAN	8.65	19.6
10633	440	IEEE 802 11as WEI (160 MHz, MCS3, sope duty cycle)	MU ANI	0.00	13.0
10640	AAD	IEEE 802 11ao WIEI (160 MHz, MCSE, 80pc duty cycle)	WEAN AND	0.90	19.0
10642	440	IEEE 802 11se WEI (160 MHz, MCS6, 90pc duty cycle)	WEAN	9.06	19.6
10642	AAD	IEEE 802.11ac WFI (160 MHz, MCS7, 90ec duty cycle)	MULANI	9.06	±9.0
10644	440	IEEE 802 11ac WEI (160 MHz, MCS9, 90pc duty cycle)	MO ANI	0.05	19.0
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WEAN	9.05	10.6
10646	AAH	TE-TOD (SC-EDMA 1 BB 5MHz OPSK UL Subtame-2.7)	ITE TOO	11.06	10.6
10647	AAG	LTE-TOD (SC-EDMA 1 BB 20 MHz OPSK LIL Subframe=2.7)	LITE-TOD	11.96	10.0
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	+9.6
10652	AAF	LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.91	+9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.42	+9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.96	+9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	+9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	+9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	+9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	+9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	+9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	+9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	+9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	+9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6

Certificate No: EX-3677_Jul23

Page 17 of 22

July 20, 2023

		Communication System Name	aroup	Fran (ob)	Olio A
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WEAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE-802.11ax (40 MHz, MCS9, 99pc duty cycle)	WEAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
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Certificate No: EX-3677_Jul23

Page 18 of 22

SAR Test Report

TA

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July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9,00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9:6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 R8, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.41	±9.6
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

Certificate No: EX-3677_Jul23

Page 19 of 22

Report No.: R2401A0062-S1V2

EX3DV4 - SN:3677

July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{i} k = 2$
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
0831	AAD	5G NR (CP-OFDM, 1 HB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
0.0002	AAD	SG NR (CP-OFDM, 1 RB, 20MHz, QPSK, 60 KHz)	5G NR FR1 TDD	7.74	±9.6
0833	AAD	SGINE (CP-OFDM, 1 HB, 25 MHZ, QPSK, 60 KHZ)	5G NR FR1 TDD	7.70	±9.6
0.004	AAD	SC NR (CP-OFDM, 1 RB, 30 MHZ, QPSK, 60 KHZ)	5G NR FR1 TDD	7.75	±9.6
0035	AAD	SC ND (CP-OFDM, 1 RD, 40 MHZ, QPSK, 60 KHZ)	SG NR FR1 TDD	7.70	±9.6
0000	AAD	SC ND (CP-OFDM, 1 RD, SUMHZ, QPSK, 60KHZ)	5G NR FR1 TDD	7.66	±9.6
0037	AAD	EG NR (CP-OFDM, 1 RB, 60 MHz, CPSK, 60 KHz)	50 NR FRI TOD	7.68	±9.6
0.000	AAD	SG NR (CP-OFDM, 1 RB, 80 MRZ, QPSK, 80 KRZ)	5G NR FR1 TUD	7.70	±9.6
0841	440	SG NR (CP-OFDM, 1 RR, 50 MRZ, QPSK, 50 KRZ)	50 NR FRI TOD	7.67	±9.6
0.843	AAD	SG NR (CP.OEDM 50% DR 15 MHz OPSK 20 HUS)	SG NO EDI TOD	7.71	±9.6
0844	AAD	SG NE (CE-OFDM, SON DE 20MH+ OPEK (0KH2)	SG NO FRI TOD	8.49	19.0
0.846	440	SG NR (CP.OFDM, 50% RB, 20 MH+ OPSK, 20 KH+)	SC NR FRI TOD	0.41	78.0
10854	AAD	5G NR (CP-OFDM, 100% RR 10 MHz OPSK 60 kHz)	SG NR FRI TOD	0.91	±9.6
0.855	AAD	5G NR (CP-OEDM, 100% RB, 15MHz, OPSK, 60kHz)	56 NR ERI TOD	0.04	19.0
0856	AAD	5G NR (CP-OEDM, 100% RB, 20 MHz, OPSK, 60 kHz)	56 NR FR1 TOD	0.00	10.0
0857	AAD	5G NR (CP-OFDM, 100% RB, 25MHz, OPSK, 60kHz)	56 NB FB1 TOD	0.37	19,0
0.858	AAD	5G NR (CP-OEDM, 100% RB 30 MHz, OPSK, 60 kHz)	56 NR FR1 TOD	9.30	19,0
0859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, OPSK, 60 kHz)	5G NE FR1 TOD	8.34	10.6
0860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.41	10.0
0861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	10.0
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, OPSK, 60 kHz)	5G NB FB1 TDD	8.41	+9.6
0864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NB FB1 TDD	8.37	+9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	+9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	+9.6
0868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	+9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	+9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	+9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8,41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DF1-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NH (DFT-S-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAE	SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 KHz)	5G NR FR2 TDD	7.78	±9.6
0.000	AAE	SG NR (CP-OFDM, 100% HB, S0 MHZ, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10303	AAE	SG NR (CP-OFDM, 1 RB, SUMRZ, 16QAM, 120KHZ)	5G NR FR2 TDD	8.02	±9.6
10890	AAE	50 NR (CP-OFDW, 100% HB, 50 MHZ, 16QAM, 120 KHZ)	5G NR FR2 TDD	8.40	±9.6
10802	AAE	SG NE (CP.OEDM, 1 ND, 50 MINZ, 54 QAM, 120 KHZ)	SG NH FR2 TDD	8.13	19.6
10897	AAC	50 NR (DET-COEDM 1 BR 5 MHz OPSK 30249)	SG NR FR2 TDD	8.41	±9.6
10898	AAR	56 NR (DET&OEDM 1 RR 10 MHz OPSK 30 KHz)	DG NR PRI TDD	5.66	±9.6
0890	AAP	SG NR (DET & OEDM 1 DR 15 MUY ODEK 30 KHZ)	SG NR FRI TDD	5.67	±9.6
10900	AAR	56 NB (DET & OFDM 1 BB 20 MHz OPEN 30 KHz)	SG NR FRI TDD	5.67	19.6
10901	AAR	5G NR (DET-s-OEDM 1 BB 25 MHz OPEK 30 Hz)	SG NO EDI TOD	5.66	19.6
10902	AAB	5G NR (DET-s-OEDM 1 BB 30 MHz OPSK 30 kHz)	SO NO EDI TOD	5.66	19.6
10903	AAB	5G NR (DFTs:OFDM 1 BB 40 MHz OPSK 30 kHz)	SG NR FHI TOD	5.66	±9.6
10904	AAB	5G NR (DFT-s-OFDM 1 BB 50 MHz OPSK 30 kHz)	50 NR FRI 100	5.66	±9.6
10905	AAB	5G NR (DET-S-OEDM 1 BB 60 MHz OPSK 30 kHz)	SO NO EDI TOD	5.66	±9.6
10906	AAB	5G NR (DFTs-OFDM: 1 RB. 80 MHz, OPSK 30 kHz)	50 NR FRI 100	5.00	±9.6
10907	AAC	5G NR (DFTs-OFDM, 50% RB, 5 MHz, OPSK, 30 kHz)	50 NP ED1 TOD	5.00	10.0
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	56 NR EP1 TOD	5.09	19.0
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, OPSK, 30 kHz)	56 NR FR1 T00	5.06	10.0
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	56 NR FR1 T00	5.83	10.6
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Certificate No: EX-3677_Jui23

Page 20 of 22

SAR Test Report

TA

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July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAB	5G NR (DFTs-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT:s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT/s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.95	±9.6
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFTs-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5:52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFTs-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT:s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFTs-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAC	5G NR (DFTs-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFOM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAB	5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	LILLA HDRo8	ULLA	3.43	+9.6

Certificate No: EX-3677_Jul23

Page 21 of 22



Report No.: R2401A0062-S1V2

EX3DV4 - SN:3677

July 20, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9,6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

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

Certificate No: EX-3677_Jul23

Page 22 of 22

Report No.: R2401A0062-S1V2

ANNEX E: D750V3 Dipole Calibration Certificate

E-mail: emf@caict.ac.cn Client TA(St	http://www.caict	Certificate No: 23.	J02Z80016
CALIBRATION CE	RTIFICAT	E	
Object	D750V3	3 - SN: 1045	
Calibration Procedure(s)			
Salibration (recording(s)	FF-Z11	-003-01 tion Procedures for dinole validation kits	
Calibration date:	Cantora	ther 10, 2022	
	Septen	IDEF 12, 2023	
pages and are part of the ce All calibrations have been	conducted in the	he closed laboratory facility: environment t	emperature (22±3)°C and
humidity<70%.			
humidity<70%. Calibration Equipment used	(M&TE critical fo	or calibration)	
humidity<70%. Calibration Equipment used Primary Standards	(M&TE critical fo	calibration) Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2	(M&TE critical fo	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561)	Scheduled Calibration Sep-23
Primary Standards Power Meter NRP2 Power sensor NRP8S	(M&TE critical fo ID # 106277 104291 SN 3617	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL, SEEAC No.723.60161)	Scheduled Calibration Sep-23 Sep-23
numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24
humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID #	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration
humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107)	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24
humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430 MY46110673	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107) 10-Jan-23 (CTTL, No. J23X00104)	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24 Jan-24
humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430 MY46110673 Name	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107) 10-Jan-23 (CTTL, No. J23X00104) Function	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24 Jan-24 Signature
humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430 MY46110673 Name Zhao Jing	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107) 10-Jan-23 (CTTL, No. J23X00104) Function SAR Test Engineer	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24 Jan-24 Signature
humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C Calibrated by: Reviewed by:	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430 MY49071430 MY46110673 Name Zhao Jing Lin Hao	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107) 10-Jan-23 (CTTL, No. J23X00104) Function SAR Test Engineer SAR Test Engineer	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24 Jan-24 Signature
numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C Calibrated by: Reviewed by: Approved by:	(M&TE critical fo ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430 MY46110673 Name Zhao Jing Lin Hao Qi Dianyuan	Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107) 10-Jan-23 (CTTL, No. J23X00104) Function SAR Test Engineer SAR Test Engineer SAR Project Leader	Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24 Jan-24 Jan-24 Jan-24







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Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: 23J02Z80016

Page 2 of 6







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Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	42.0	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.7 ± 6 %	0.90 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	(v <u>ana</u> v	

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.47 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.39 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.51 W/kg ± 18.7 % (k=2)

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Page 3 of 6







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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.9Ω- 2.47jΩ	
Return Loss	- 30.4dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	0.940 ns
----------------------------------	----------

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

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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Page 4 of 6





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e a

CALIBRATION LABORATORY

DASY5 Validation Report for Head TSL

In Collaboration with

p

Date: 2023-09-12

Test Laboratory: CTTL, Beijing, China **DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1045** Communication System: UID 0, CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz; $\sigma = 0.901$ S/m; $\epsilon_r = 41.74$; $\rho = 1000$ kg/m³ Phantom section: Right Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY5 Coefficient Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN3617; ConvF(10.1, 10.1, 10.1) @ 750 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.17 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.48 W/kg SAR(1 g) = 2.14 W/kg; SAR(10 g) = 1.39 W/kg Smallest distance from peaks to all points 3 dB below = 18.6 mm Ratio of SAR at M2 to SAR at M1 = 62% Maximum value of SAR (measured) = 2.97 W/kg



0 dB = 2.97 W/kg = 4.73 dBW/kg

Certificate No: 23J02Z80016

Page 5 of 6







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Impedance Measurement Plot for Head TSL



Certificate No: 23J02Z80016

Page 6 of 6

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TA

Report No.: R2401A0062-S1V2

ANNEX F: D835V2 Dipole Calibration Certificate

Schmid & Partner Engineering AG eughausstrasse 43, 8004 Zuric	y of		Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Accreditat The Swiss Accreditation Service Multilateral Agreement for the re	ion Service (SAS) Is one of the signatori cognition of calibration	es to the EA n certificates	Accreditation No.: SCS 0108
Client TA Shanghai City		Certificate No	D835V2-4d020_Sep23
CALIBRATION C	ERTIFICAT	E	
Object	D835V2 - SN:4d	020	
Calibration procedure(s)	QA CAL-05.v12 Calibration Proce	edure for SAR Validation Source	s between 0.7-3 GHz
Calibration date:	September 15, 2	023	
Primary Standards Power meter NRP2	ID # SN: 104778	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805)	Scheduled Calibration Mar-24
Power sensor NRP-Z91 Power sensor NRP-Z91	SN: 103244 SN: 103245	30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805)	Mar-24
	[1] S. M. S. M S. M. S. M S. M. S. M. S		Mar.94
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24 Mar-24
Reference 20 dB Attenuator Type-N mismatch combination	SN: BH9394 (20k) SN: 310982 / 06327	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810)	Mar-24 Mar-24 Mar-24
Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4 DAE4	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22)	Mar-24 Mar-24 Mar-24 Jan-24 Dec-23
Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house)	Mar-24 Mar-24 Mar-24 Jan-24 Dec-23 Scheduled Check
Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Tower meter E4419B	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22)	Mar-24 Mar-24 Jan-24 Jan-24 Jec-23 Scheduled Check In house check: Oct-24
Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Newspace HB 2000	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22)	Mar-24 Mar-24 Jan-24 Jan-24 Dec-23 Scheduled Check In house check: Oct-24 In house check: Oct-24
Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Recondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A For generator B&S SMT-06	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 10972	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15 Jun 15 (in house check Oct-22)	Mar-24 Mar-24 Jan-24 Jan-24 Dec-23 Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards ² ower meter E4419B ² ower sensor HP 8481A ³ ower sensor HP 8481A 3F generator R&S SMT-06 4etwork Analyzer Agilent E8358A	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22)	Mar-24 Mar-24 Jan-24 Jan-24 Jan-24 Dec-23 Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24
Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A VF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: US37292783 SN: WY41093315 SN: 100972 SN: US41080477 Name	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22) Function	Mar-24 Mar-24 Jan-24 Jan-24 Dec-23 Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 Signature
Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4 DAE4 Recondary Standards Power meter E4419B Power sensor HP 8481A Ower sensor HP 8481A RF generator R&S SMT-06 Retwork Analyzer Agilent E8358A Salibrated by:	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name Paulo Pina	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	Mar-24 Mar-24 Mar-24 Jan-24 Jan-24 Dec-23 Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 Signature
Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power sensor HP 8481A Power sensor HP 8481A Power sensor HP 8481A Regenerator R&S SMT-06 Vetwork Analyzer Agilent E8358A Salibrated by: Neproved by:	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41093315 SN: 100972 SN: US41080477 Name Paulo Pina Sven Kühn	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician	Mar-24 Mar-24 Jan-24 Jan-24 Dec-23 <u>Scheduled Check</u> In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 Signature
Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards ³ ower meter E4419B ³ ower sensor HP 8481A ³ ower sensor HP 8481A RF generator R&S SMT-06 Vetwork Analyzer Agilent E8358A Calibrated by: his calibration certificate shall not	SN: BH9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: WY41093315 SN: 100972 SN: US41080477 Name Paulo Pina Sven Kühn	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810) 10-Jan-23 (No. EX3-7349_Jan23) 19-Dec-22 (No. DAE4-601_Dec22) Check Date (in house) 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) 31-Mar-14 (in house check Oct-22) Function Laboratory Technician Technical Manager	Mar-24 Mar-24 Jan-24 Jan-24 Jan-24 Dec-23 Scheduled Check In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 In house check: Oct-24 Signature



Certificate No: D835V2-4d020_Sep23

Page 2 of 6

Measurement Conditions

TA

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

DASY52	V52.10.4
Advanced Extrapolation	
Modular Flat Phantom	
15 mm	with Spacer
dx, dy, dz = 5 mm	
835 MHz ± 1 MHz	
	DASY52 Advanced Extrapolation Modular Flat Phantom 15 mm dx, dy, dz = 5 mm 835 MHz ± 1 MHz

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.1 ± 6 %	0.93 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	23224	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.49 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.75 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 250 mW input power	1.62 W/kg

Certificate No: D835V2-4d020_Sep23

Page 3 of 6



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SAR Test Report

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.6 Ω - 3.8 jΩ	
Return Loss	- 28.3 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.390 ns	

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

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

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

Additional EUT Data

Manufactured by	SPEAG
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Certificate No: D835V2-4d020_Sep23

Page 4 of 6



DASY5 Validation Report for Head TSL

Test Laboratory: SPEAG, Zurich, Switzerland

Date: 15.09.2023

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d020

Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.69, 9.69, 9.69) @ 835 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 66.58 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 3.74 W/kg **SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.62 W/kg** Smallest distance from peaks to all points 3 dB below = 16 mm Ratio of SAR at M2 to SAR at M1 = 66.4% Maximum value of SAR (measured) = 3.27 W/kg



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SAR Test Report

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SAR Test Report

ANNEX G: D1750V2 Dipole Calibration Certificate

E-mail: cttl@chinattl.com	http://www.cai	ct.ac.cn	
Client AUDI	EN	Certificate No: Z2	2-60230
CALIBRATION CE	RTIFICAT	E	
Object	D1750	/2 - SN: 1023	
Calibration Procedure(s) FF-Z11		-003-01 tion Procedures for dipole validation kits	
Calibration date: June 2		1, 2022	
pages and are part of the ce	rtificate.		
All calibrations have been humidity<70%.	conducted in t	he closed laboratory facility: environment	temperature (22±3)°C and
All calibrations have been humidity<70%. Calibration Equipment used	Conducted in t (M&TE critical fo	he closed laboratory facility: environment or calibration)	temperature (22±3)°C and
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2	Conducted in t (M&TE critical for ID #	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL No. (21X08326)	temperature (22±3)°C an Scheduled Calibration
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S	Conducted in t (M&TE critical for ID # 106277 104291	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326)	temperature (22±3)°C and Scheduled Calibration Sep-22 Sep-22
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4	conducted in t (M&TE critical fo ID # 106277 104291 SN 7464	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG, No.EX3-7464 Jan22)	temperature (22±3)°C and Scheduled Calibration Sep-22 Sep-22 Jan-23
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4	conducted in t (M&TE critical fo ID # 106277 104291 SN 7464 SN 1556	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007)	temperature (22±3)℃ an Scheduled Calibration Sep-22 Sep-22 Jan-23 Jan-23
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards	conducted in t (M&TE critical for ID # 106277 104291 SN 7464 SN 1556 ID #	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007) Cal Date (Calibrated by, Certificate No.)	temperature (22±3)°C and Scheduled Calibration Sep-22 Sep-22 Jan-23 Jan-23 Scheduled Calibration
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C	conducted in t (M&TE critical for 106277 104291 SN 7464 SN 1556 ID # MY49071430	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007) Cal Date (Calibrated by, Certificate No.) 13-Jan-22 (CTTL, No.J22X00409)	temperature (22±3)°C and Scheduled Calibration Sep-22 Sep-22 Jan-23 Jan-23 Scheduled Calibration Jan-23
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C	conducted in t (M&TE critical fo 106277 104291 SN 7464 SN 1556 ID # MY49071430 MY46110673	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007) Cal Date (Calibrated by, Certificate No.) 13-Jan-22 (CTTL, No.J22X00409) 14-Jan-22 (CTTL, No.J22X00406)	temperature (22±3)°C and Scheduled Calibration Sep-22 Jan-23 Jan-23 Scheduled Calibration Jan-23 Jan-23
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C	conducted in t (M&TE critical fo ID # 106277 104291 SN 7464 SN 1556 ID # MY49071430 MY46110673 Name	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007) Cal Date (Calibrated by, Certificate No.) 13-Jan-22 (CTTL, No.J22X00409) 14-Jan-22 (CTTL, No.J22X00406) Function	temperature (22±3)°C and Scheduled Calibration Sep-22 Sep-22 Jan-23 Jan-23 Scheduled Calibration Jan-23 Jan-23 Jan-23
All calibrations have been numidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C	conducted in t (M&TE critical fo ID # 106277 104291 SN 7464 SN 1556 ID # MY49071430 MY46110673 Name Zhao Jing	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007) Cal Date (Calibrated by, Certificate No.) 13-Jan-22 (CTTL, No.J22X00409) 14-Jan-22 (CTTL, No.J22X00406) Function SAR Test Engineer	Scheduled Calibration Sep-22 Sep-22 Jan-23 Jan-23 Scheduled Calibration Jan-23 Jan-23
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C Network Analyzer E5071C Calibrated by: Reviewed by:	conducted in t (M&TE critical fo 106277 104291 SN 7464 SN 1556 ID # MY49071430 MY46110673 Name Zhao Jing Lin Hao	he closed laboratory facility: environment or calibration) Cal Date (Calibrated by, Certificate No.) 24-Sep-21 (CTTL, No.J21X08326) 24-Sep-21 (CTTL, No.J21X08326) 26-Jan-22(SPEAG,No.EX3-7464_Jan22) 12-Jan-22(CTTL-SPEAG,No.Z22-60007) Cal Date (Calibrated by, Certificate No.) 13-Jan-22 (CTTL, No.J22X00409) 14-Jan-22 (CTTL, No.J22X00406) Function SAR Test Engineer SAR Test Engineer	Scheduled Calibration Sep-22 Sep-22 Jan-23 Jan-23 Scheduled Calibration Jan-23 Jan-23 Jan-23 Jan-23 Jan-23 Jan-23

Certificate No: Z22-60230

Page 1 of 6



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Report No.: R2401A0062-S1V2

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 http://www.caict.ac.cn E-mail: cttl@chinattl.com

CALIBRATION LABORATORY

Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528. "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: Z22-60230

Page 2 of 6





Report No.: R2401A0062-S1V2

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 E-mail: cttl@chinattl.com http://www.caict.ac.cn

Measurement Conditions

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

 DASY Version
 DASY52
 52.10.4

 Extrapolation
 Advanced Extrapolation

 Phantom
 Triple Flat Phantom 5.1C

 Distance Dipole Center - TSL
 10 mm
 with Spacer

 Zoom Scan Resolution
 dx, dy, dz = 5 mm
 Frequency

 Frequency
 1750 MHz ± 1 MHz

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.1 ± 6 %	1.38 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	2 <u>11/20</u>	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	36.8 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	4.87 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.5 W/kg ± 18.7 % (k=2)

Page 3 of 6





Report No.: R2401A0062-S1V2

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 E-mail: cttl@chinattl.com http://www.caict.ac.cn

Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.6Ω- 1.40jΩ	
Return Loss	- 34.0dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.118 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Page 4 of 6



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DASY5 Validation Report for Head TSL Test Laboratory: CTTL, Beijing, China

In Collaboration with

e

CALIBRATION LABORATORY

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Date: 2022-06-21

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1023 Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1750 MHz; $\sigma = 1.382$ S/m; $\varepsilon_r = 41.1$; $\rho = 1000$ kg/m³ Phantom section: Right Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN7464; ConvF(8.52, 8.52, 8.52) @ 1750 MHz; Calibrated: 2022-01-26
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2022-01-12
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

dy=5mm, dz=5mm Reference Value = 92.55 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 16.9 W/kg **SAR(1 g) = 9.2 W/kg; SAR(10 g) = 4.87 W/kg** Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 55% Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

Certificate No: Z22-60230

Page 5 of 6



Impedance Measurement Plot for Head TSL



Certificate No: Z22-60230

Page 6 of 6

🔅 eurofins

ANNEX H: D1900V2 Dipole Calibration Certificate

Tel: +86-10-62304633-2117 E-mail: emf@caict.ac.cn	http://www.caict	Lac.cn	
Client TA(SI	hanghai)	Certificate No:	23J02Z80017
CALIBRATION CE	ERTIFICAT	E	
Object	D1900\	/2 - SN: 5d060	
Calibration Procedure(s)	FF-711	-003-01	
	Calibra	tion Procedures for dipole validation kits	
Calibration date:	Septer	nber 12, 2023	
pages and are part of the ce	artificate.		
pages and are part of the ce All calibrations have been humidity<70%. Calibration Equipment used	conducted in t (M&TE critical fe	he closed laboratory facility: environmen or calibration)	t temperature (22±3)°C and
Pages and are part of the ce All calibrations have been humidity<70%. Calibration Equipment used Primary Standards	conducted in t (M&TE critical fo	he closed laboratory facility: environmen or calibration) Cal Date (Calibrated by, Certificate No.)	t temperature (22±3)°C and Scheduled Calibration
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All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S	ID # 106277 104291	he closed laboratory facility: environmen or calibration) Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561)	t temperature (22±3)°C and Scheduled Calibration Sep-23 Sep-23
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4	ID # 106277 104291 SN 3617	he closed laboratory facility: environmen or calibration) Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161)	t temperature (22±3)°C and Scheduled Calibration Sep-23 Sep-23 Mar-24
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4	ID # 106277 104291 SN 3617 SN 1556	he closed laboratory facility: environmen or calibration) Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034)	t temperature (22±3)°C and Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards	ID # 106277 104291 SN 3617 SN 1556 ID #	he closed laboratory facility: environmen or calibration) Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.)	t temperature (22±3)°C and Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration
All calibrations have been humidity<70%. Calibration Equipment used Primary Standards Power Meter NRP2 Power sensor NRP8S Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C	ID # 106277 104291 SN 3617 SN 1556 ID # MY49071430	he closed laboratory facility: environmen or calibration) Cal Date (Calibrated by, Certificate No.) 22-Sep-22 (CTTL, No.J22X09561) 22-Sep-22 (CTTL, No.J22X09561) 31-Mar-23(CTTL-SPEAG,No.Z23-60161) 11-Jan-23(CTTL-SPEAG,No.Z23-60034) Cal Date (Calibrated by, Certificate No.) 05-Jan-23 (CTTL, No. J23X00107)	t temperature (22±3)°C and Scheduled Calibration Sep-23 Sep-23 Mar-24 Jan-24 Scheduled Calibration Jan-24
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Certificate No: 23J02Z80017

Page 1 of 6







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Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

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Page 2 of 6