



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Appendix B

Detailed Test Results

1.	WIFI
	WIFI 2.4G
	WIFI 5G
	WIFI 6E
2.	BT
	BT
3.	NFC
	NFC

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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Test Laboratory: SGS-SAR Lab

TF31A Wifi2.4G 802.11n 11CH Back side 0mm

DUT: TF31A; Type: Wireless Data Terminal; Serial: LD01D4CT00026

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2462 MHz;Duty Cycle: 1:1.082

Medium: HSL2450;Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.827 \text{ S/m}$; $\epsilon_r = 38.706$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.03, 8.03, 8.03); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 1.72 W/kg

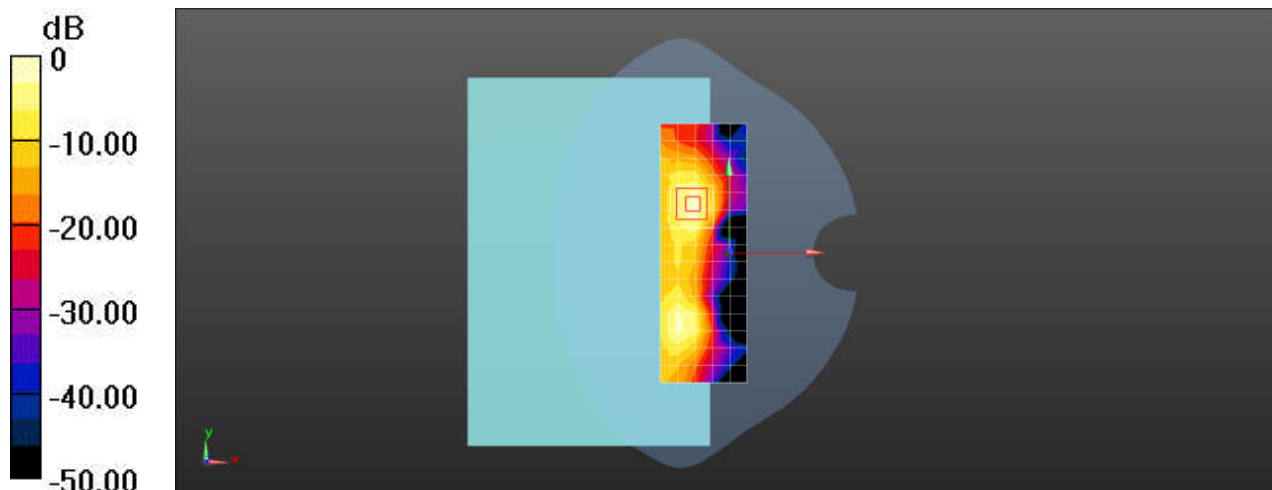
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.754 V/m ; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.892 W/kg ; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 1.72 W/kg



0 dB = 1.72 W/kg = 2.35 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31A Wifi5G 802.11a 60CH Top side 0mm

DUT: TF31A; Type: Wireless Data Terminal; Serial: LD01D4CT00026

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5300 MHz; Duty Cycle: 1:1.053

Medium: HSL5G; Medium parameters used: $f = 5300$ MHz; $\sigma = 4.903$ S/m; $\epsilon_r = 36.72$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.73, 5.73, 5.73); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (7x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.68 W/kg

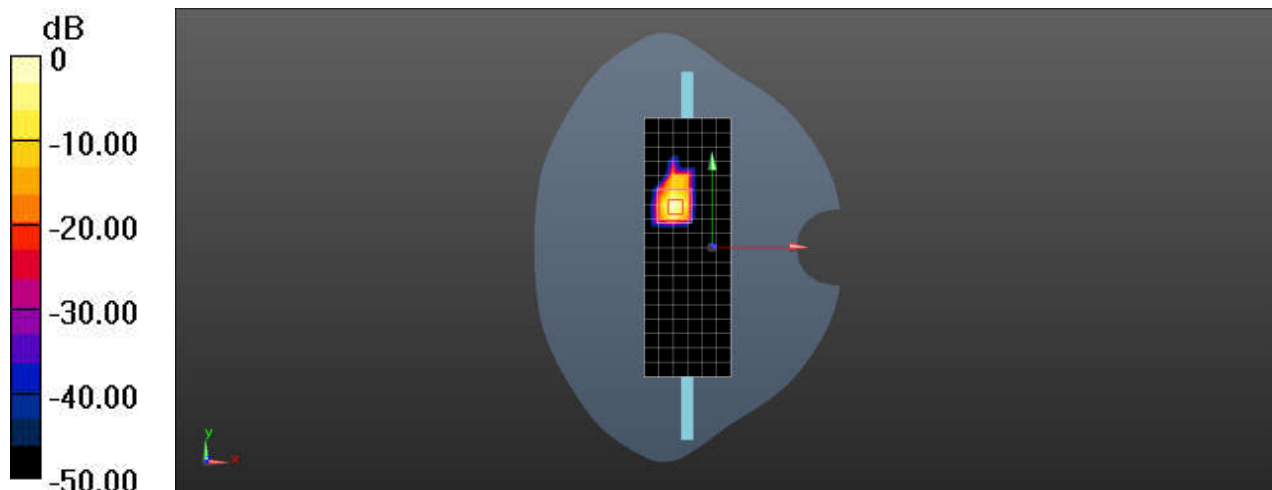
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 5.34 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 2.68 W/kg = 4.29 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31A Wifi5G 802.11n-HT40 110CH Top side 0mm

DUT: TF31A; Type: Wireless Data Terminal; Serial: LD01D4CT00026

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5550 MHz; Duty Cycle: 1:1.117

Medium: HSL5G; Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.201 \text{ S/m}$; $\epsilon_r = 36.09$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.12, 5.12, 5.12); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (7x19x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.869 W/kg

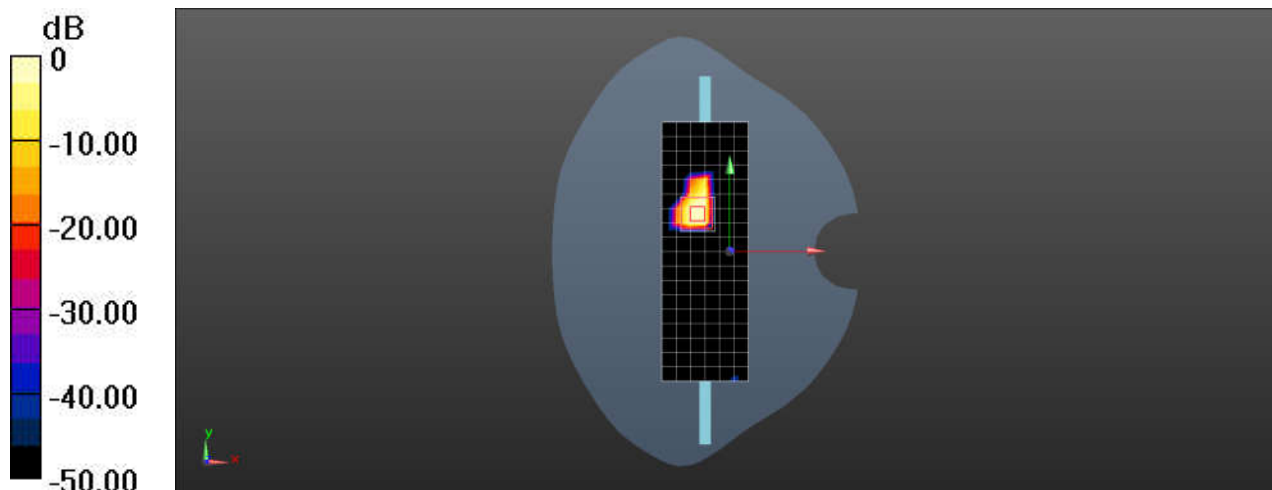
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 4.36 W/kg

SAR(1 g) = 0.813 W/kg ; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 2.70 W/kg



$0 \text{ dB} = 0.869 \text{ W/kg} = -0.61 \text{ dBW/kg}$

Test Laboratory: SGS-SAR Lab

TF31A Wifi5G 802.11n-HT40 159CH Top side 0mm

DUT: TF31A; Type: Wireless Data Terminal; Serial: LD01D4CT00026

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5795 MHz; Duty Cycle: 1:1.119

Medium: HSL5G; Medium parameters used: $f = 5795$ MHz; $\sigma = 5.5$ S/m; $\epsilon_r = 35.44$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.21, 5.21, 5.21); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (7x19x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 2.19 W/kg

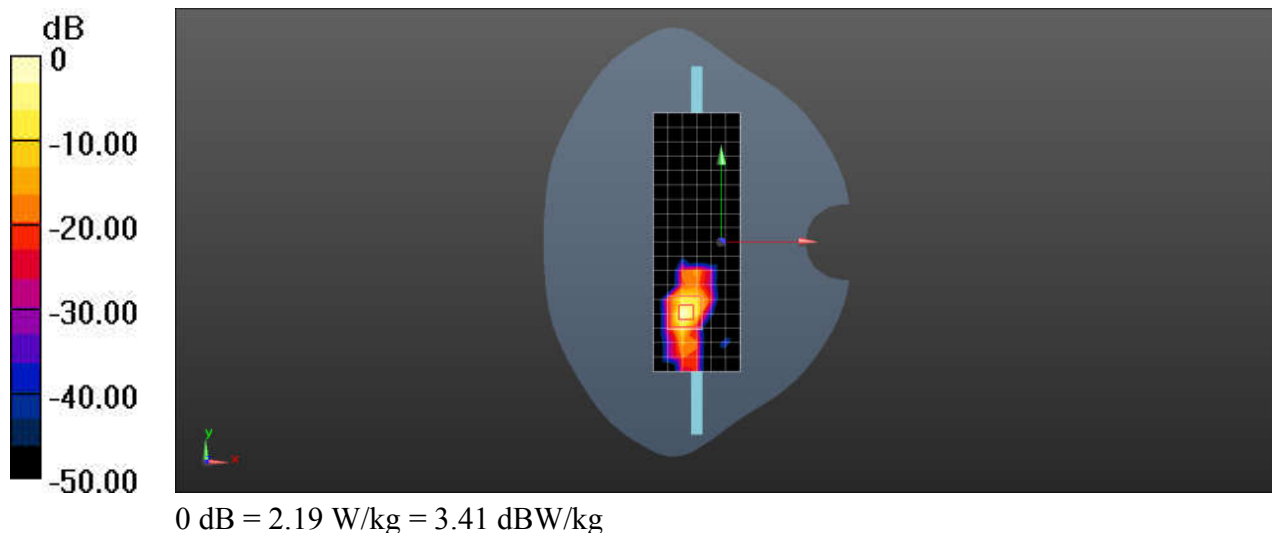
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 6.58 W/kg

SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 3.28 W/kg



Test Laboratory: SGS-SAR Lab

TF31A Bluetooth DH5 78CH Back side 0mm

DUT: TF31A; Type: Wireless Data Terminal; Serial: LD01D4CT00026

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.3

Medium: HSL2450; Medium parameters used: $f = 2480$ MHz; $\sigma = 1.841$ S/m; $\epsilon_r = 38.643$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.03, 8.03, 8.03); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.15 W/kg

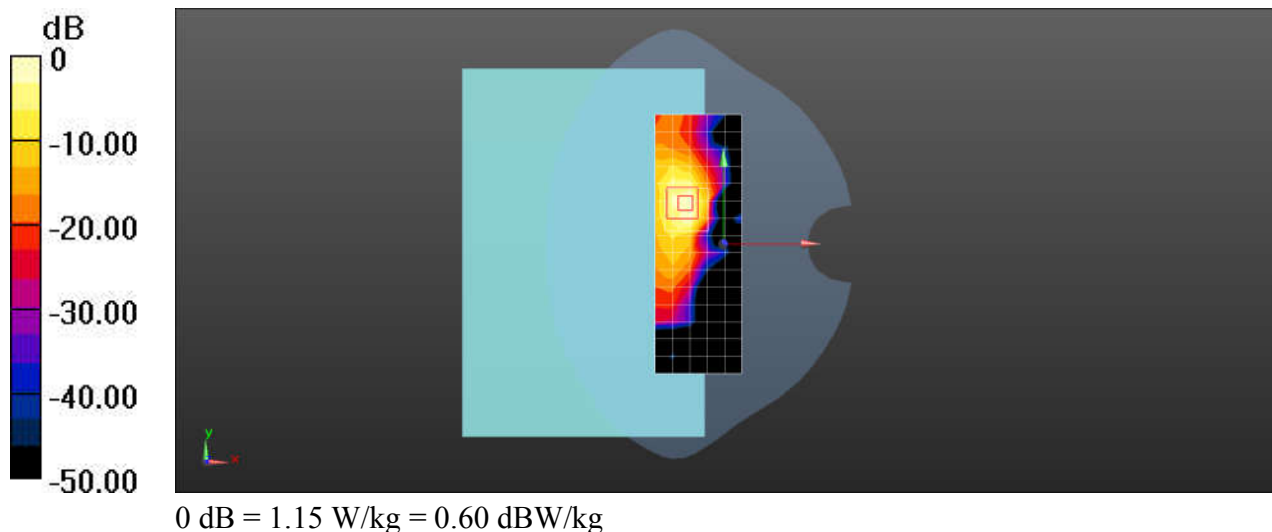
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.930 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 1.52 W/kg



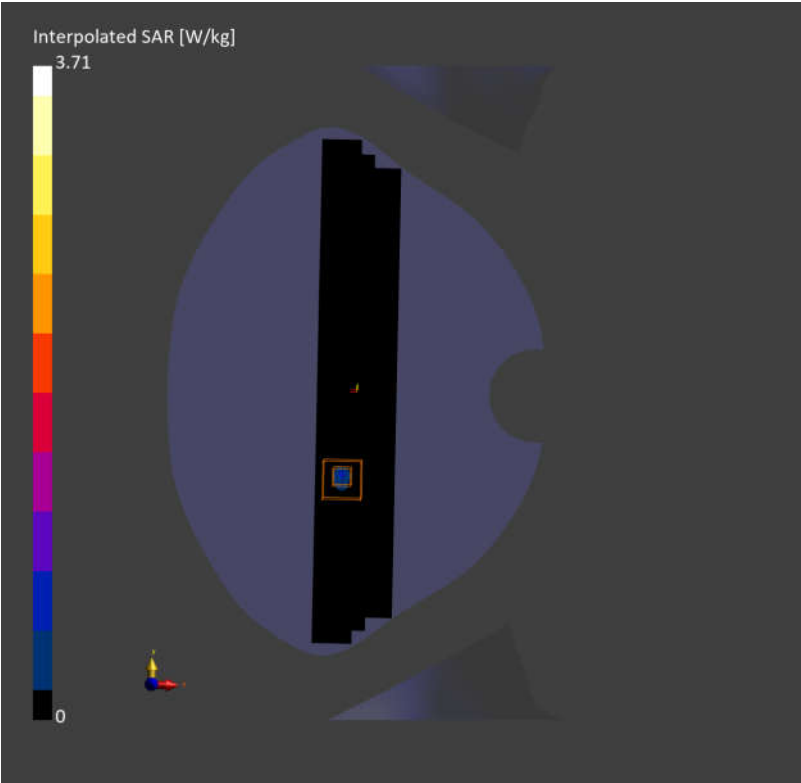
WIFI6G 802.11ax 80M 215CH Top side 0mm

Communication System: U-NII-8; Frequency: 7025.000
Medium: HSL. Medium parameters used: $f=7025.000$ MHz; $\sigma=6.80$ S/m; $\epsilon_r=32.8$

- DASY8 Configuration:
- Probe: EX3DV4 - SN7735; ConvF(5.4, 5.62, 5.52); Calibrated: 2025-01-29
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1826; Calibrated: 2025-02-17
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2155
 - Measurement Software: cDASY8 V16.2.0.1425

Area Scan (45.0 mm x 285.0 mm): Measurement Grid: 7.5 mm x 7.5 mm
SAR (1g) = 0.401 W/kg; SAR (10g) = 0.067 W/kg;

Zoom Scan (22.0 mm x 22.0 mm x 22.0 mm): Measurement Grid: 3.0 mm x 3.0 mm x 1.4 mm
Power Drift = 0.02 dB
SAR (1g) = 0.452 W/kg; SAR (10g) = 0.078 W/kg;
psAPD (4.0cm2, sq) [W/m2] 2.23
M2/M1 [%] 53.4
Dist 3dB Peak [mm] 4.2



NFC 13.56MHz Back side 0mm

Communication System: Custom Band; Frequency: 13.600

Medium: HSL. Medium parameters used: $f = 13.600$ MHz; $\sigma = 0.777$ S/m; $\epsilon_r = 55.7$

DASY8 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(13.68, 13.51, 13.73); Calibrated: 2025-01-29
- Sensor-Surface: 1.4 mm
- Electronics: DAE4ip Sn1826; Calibrated: 2025-02-17
- Phantom: ELI V8.0 (20deg probe tilt); Serial: 2217
- Measurement Software: cDASY8 V16.2.0.1425

Area Scan (210.0 mm x 300.0 mm): Measurement Grid: 15.0 mm x 15.0 mm

SAR (1g) = 0.148 W/kg; SAR (10g) = 0.109 W/kg;

Zoom Scan (30.0 mm x 30.0 mm x 30.0 mm): Measurement Grid: 6.0 mm x 6.0 mm x 1.5 mm

Power Drift = -0.01 dB

SAR (1g) = 0.207 W/kg; SAR (10g) = 0.068 W/kg;

