

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. BODY SAR MEASUREMENTS

					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 PlayerMic 100mW	20294	6	525	19.89	0.280	0.696	0.409	0.210	1.070	0.591
		7	544	19.87				0.230	0.779	0.434
		8	563	19.93				0.240	0.688	0.384
		9	581	19.93				0.220	0.634	0.349
		10	600	20.20				0.230	0.682	0.372

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 525 MHz 100mW Front-20294 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20294

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.59 W/kg

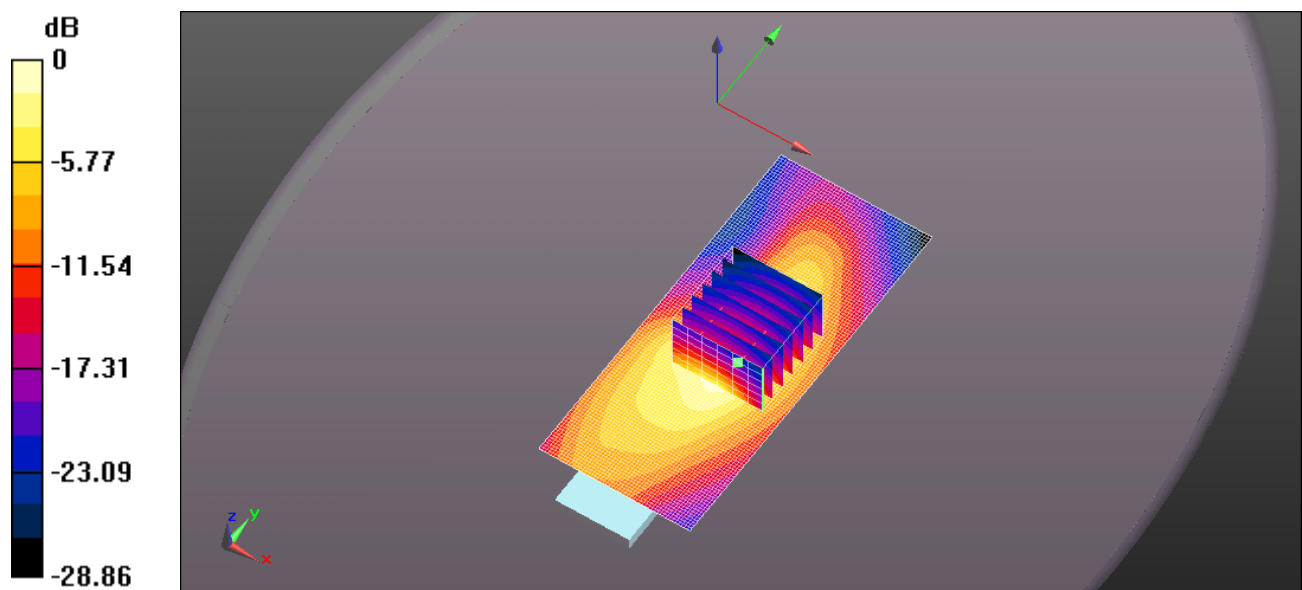
Configuration_Body_Q5X QT-5100 Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.91 V/m ; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.07 W/kg ; SAR(10 g) = 0.591 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.59 W/kg = 2.01 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-065Q QT-5100 PlayerMic 525 MHz 100mW Back-20294 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20294

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMic Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.01 W/kg

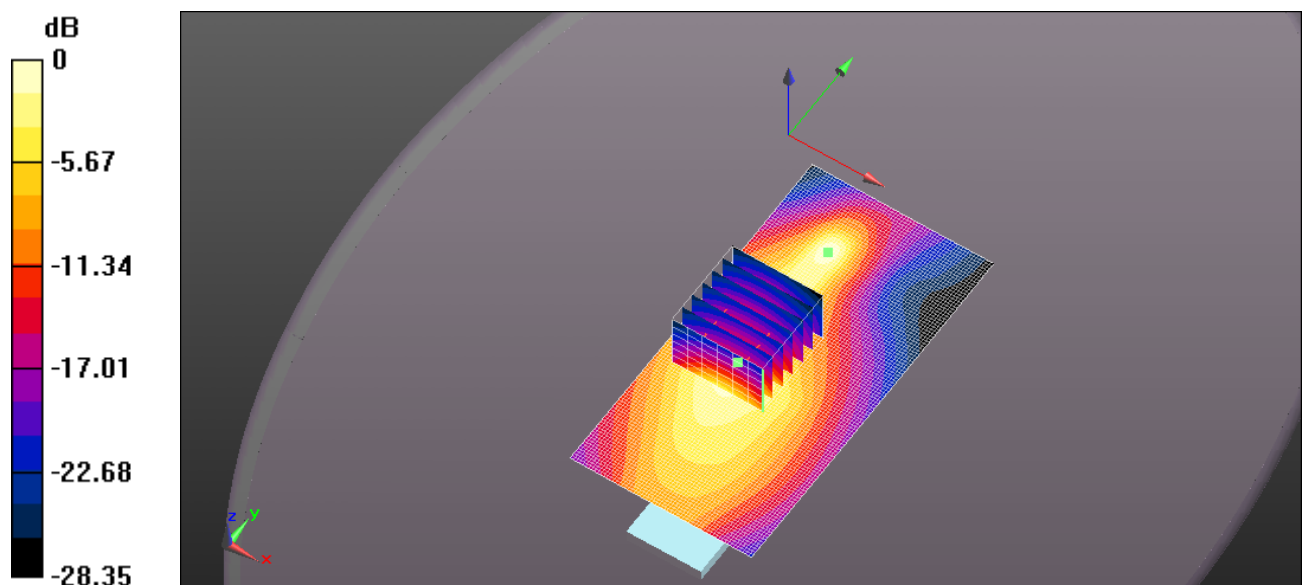
Configuration_Body_Q5X QT-5100 PlayerMic Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 9.917 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.696 W/kg; SAR(10 g) = 0.409 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.02 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 544 MHz 100mW Front-20294 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20294

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 55.067$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.17 W/kg

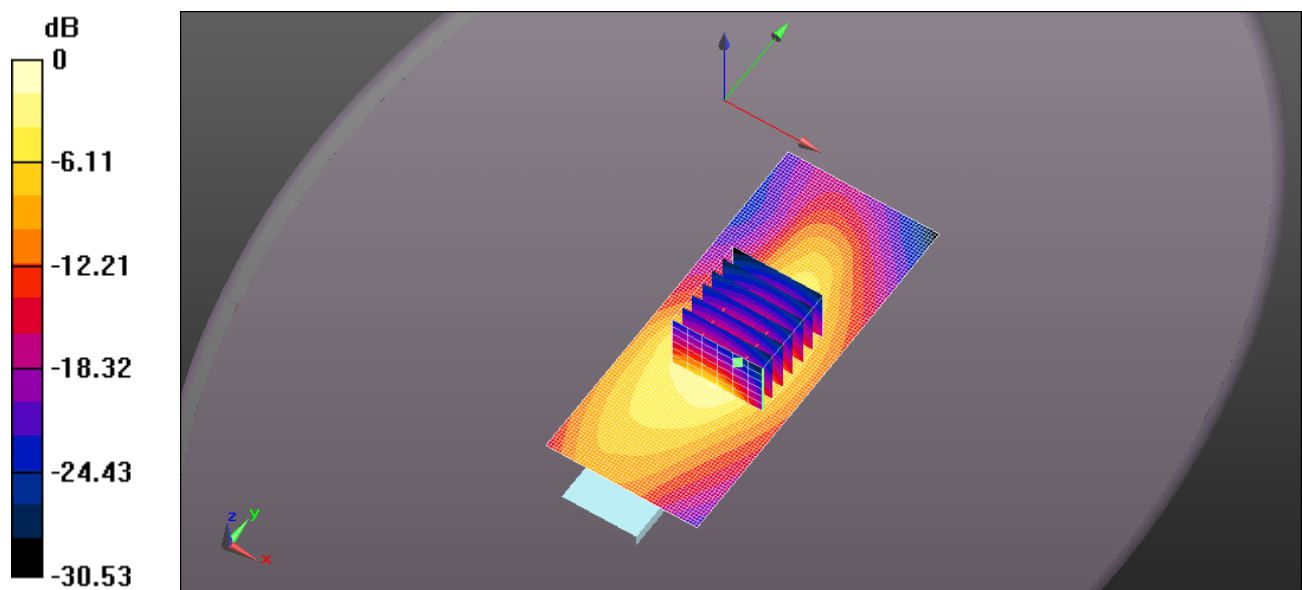
Configuration_Body_Q5X QT-5100 Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.10 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.434 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 563 MHz 100mW Front-20294 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20294

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563 \text{ MHz}$; $\sigma = 0.892 \text{ S/m}$; $\epsilon_r = 54.83$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.04 W/kg

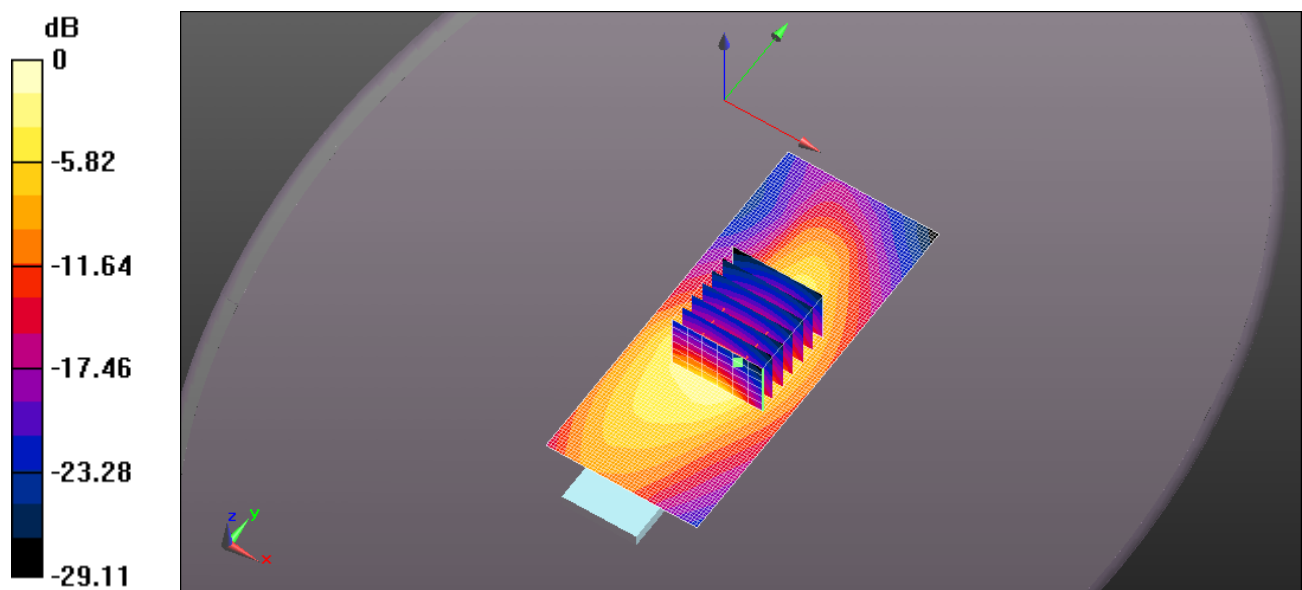
Configuration_Body_Q5X QT-5100 Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.06 V/m ; Power Drift = 0.24 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.688 W/kg ; SAR(10 g) = 0.384 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.04 W/kg = 0.18 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 581 MHz 100mW Front-20294 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20294

Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

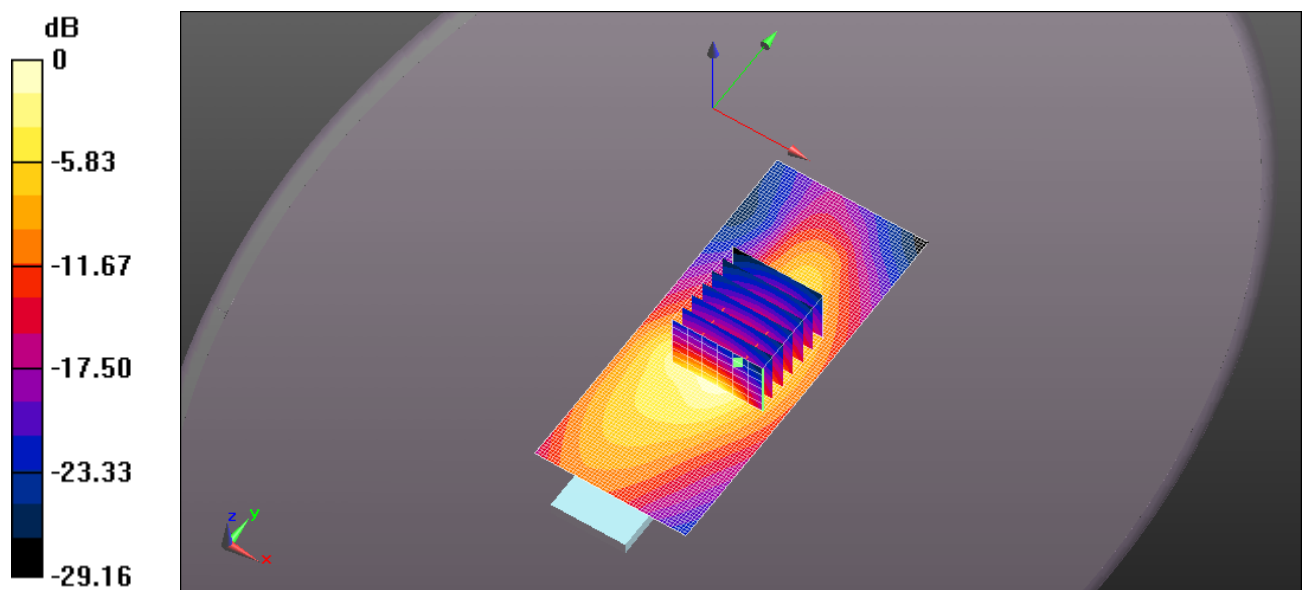
Configuration_Body_Q5X QT-5100 PlayerMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.84 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.634 W/kg; SAR(10 g) = 0.349 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.03 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMic 600 MHz 100mW Front-20294 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20294

Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 600 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 54.138$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.08 W/kg

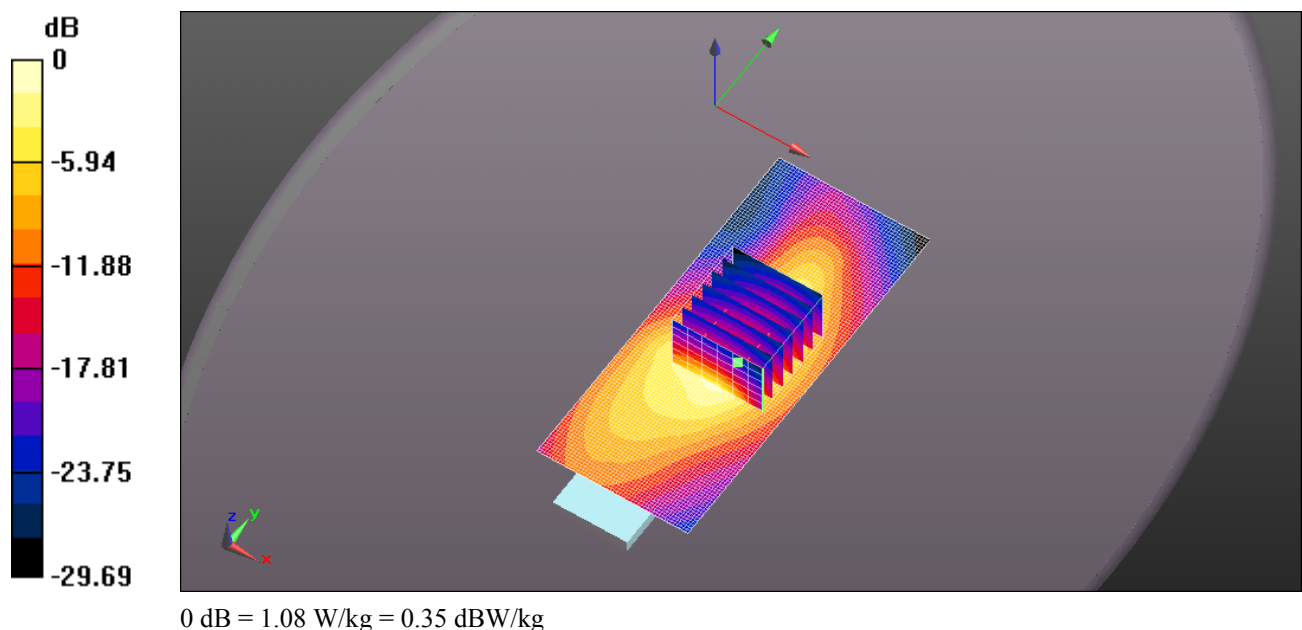
Configuration_Body_Q5X QT-5100 PlayerMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.76 V/m ; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.682 W/kg ; SAR(10 g) = 0.372 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.12 W/kg



					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 PlayerMicS 100mW	10433	6	525	19.91	0.270	1.270	0.757	0.130	1.360	0.770
		7	544	19.90				0.150	0.966	0.544
		8	563	20.00				0.150	0.834	0.468
		9	581	20.10				0.200	0.794	0.444
		10	600	20.16				0.200	0.765	0.430

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMicS 525 MHz 100mW Front-10433 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10433

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 2.05 W/kg

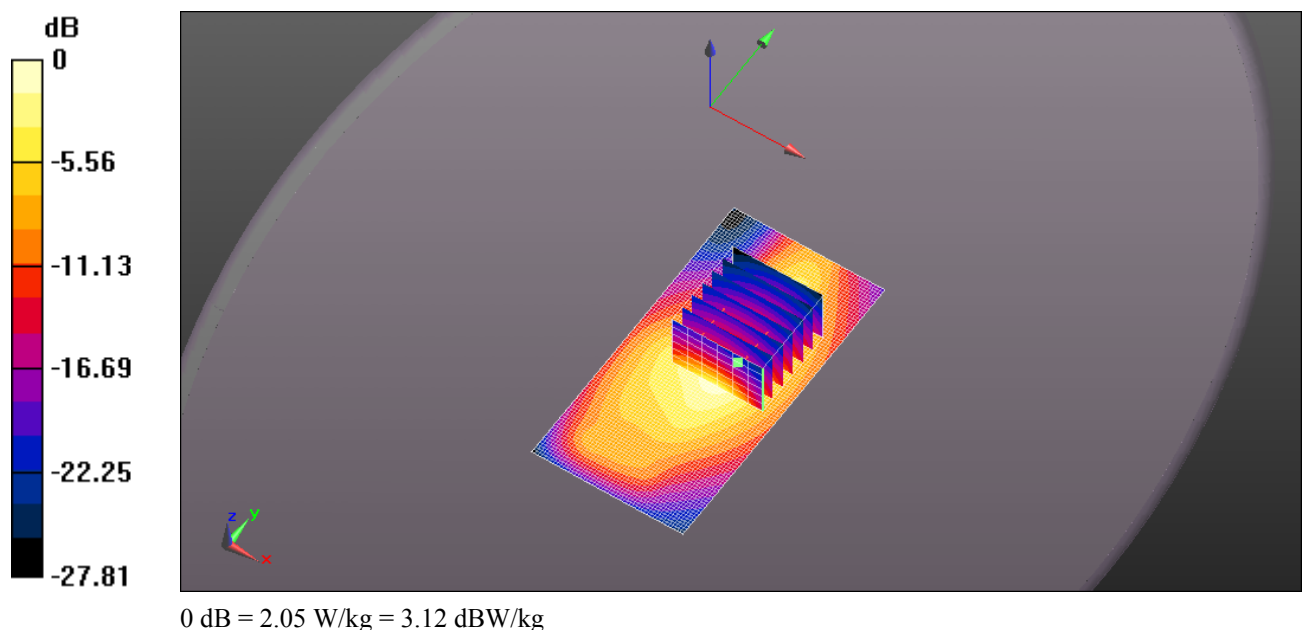
Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 44.32 V/m ; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 1.36 W/kg ; SAR(10 g) = 0.770 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.05 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMicS 525 MHz 100mW Back-10433 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10433

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.85 W/kg

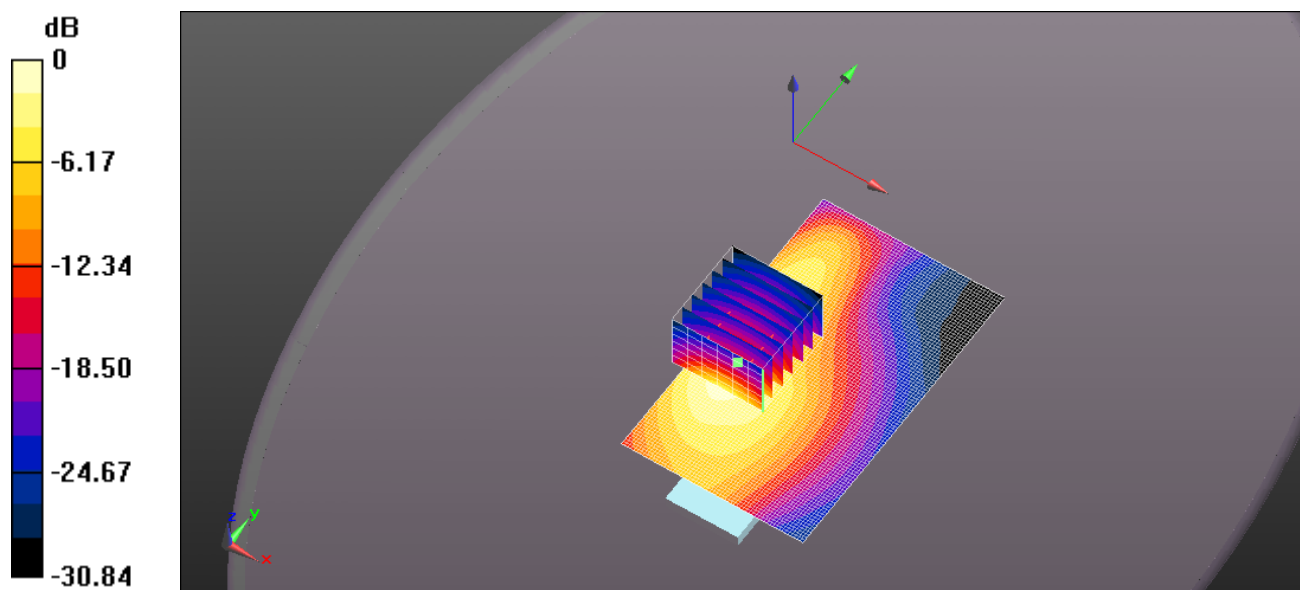
Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.36 V/m ; Power Drift = 0.27 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.27 W/kg ; SAR(10 g) = 0.757 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.83 W/kg



0 dB = $1.85 \text{ W/kg} = 2.67 \text{ dBW/kg}$

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMicS 544 MHz 100mW Front-10433 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10433

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 55.067$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.52 W/kg

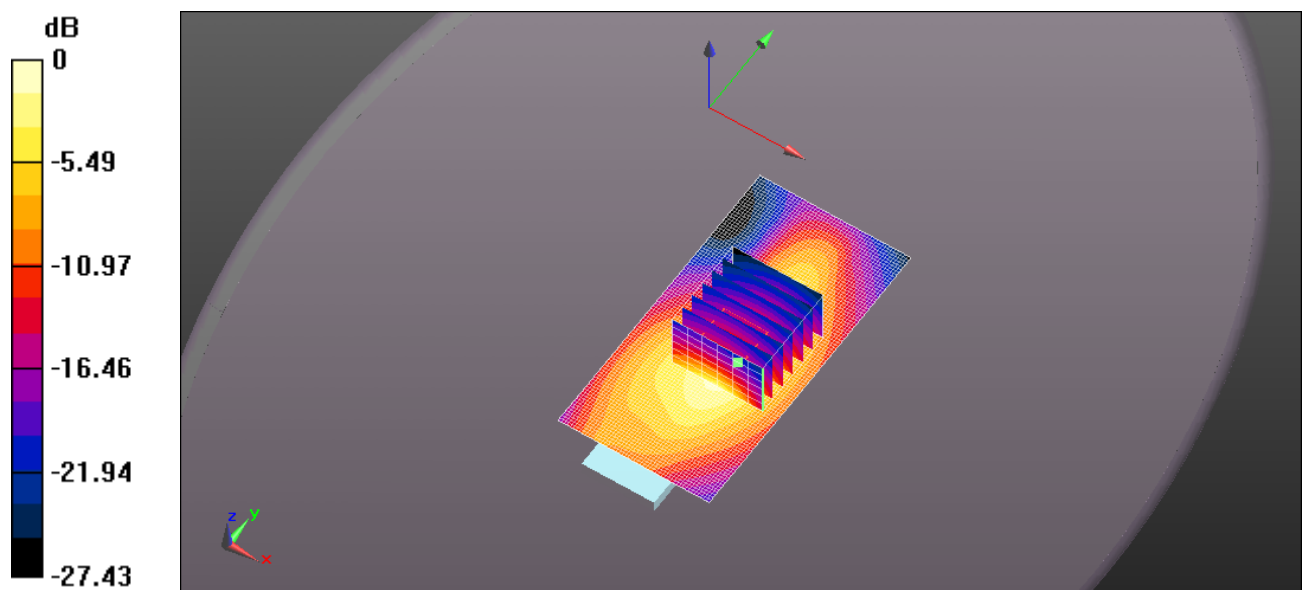
Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.59 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.966 W/kg ; SAR(10 g) = 0.544 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.52 W/kg = 1.81 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMicS 563 MHz 100mW Front-10433 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10433

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563 \text{ MHz}$; $\sigma = 0.892 \text{ S/m}$; $\epsilon_r = 54.83$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.33 W/kg

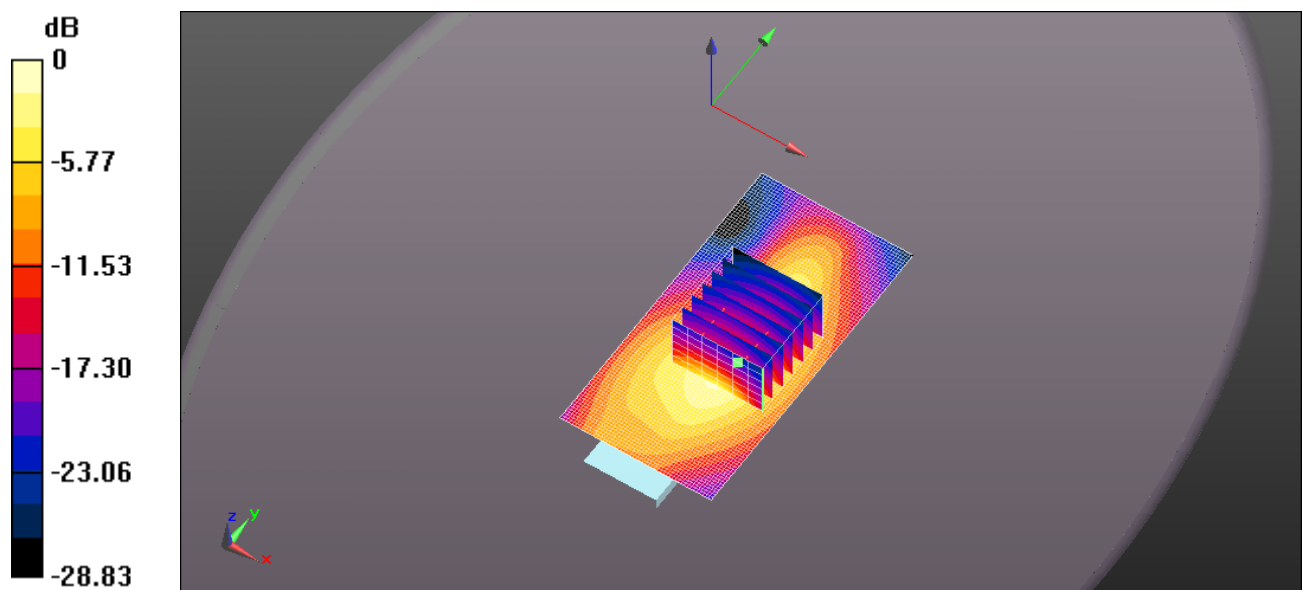
Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.71 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.834 W/kg ; SAR(10 g) = 0.468 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.33 W/kg = 1.23 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMicS 581MHz 100mW Front-10433 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10433

Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

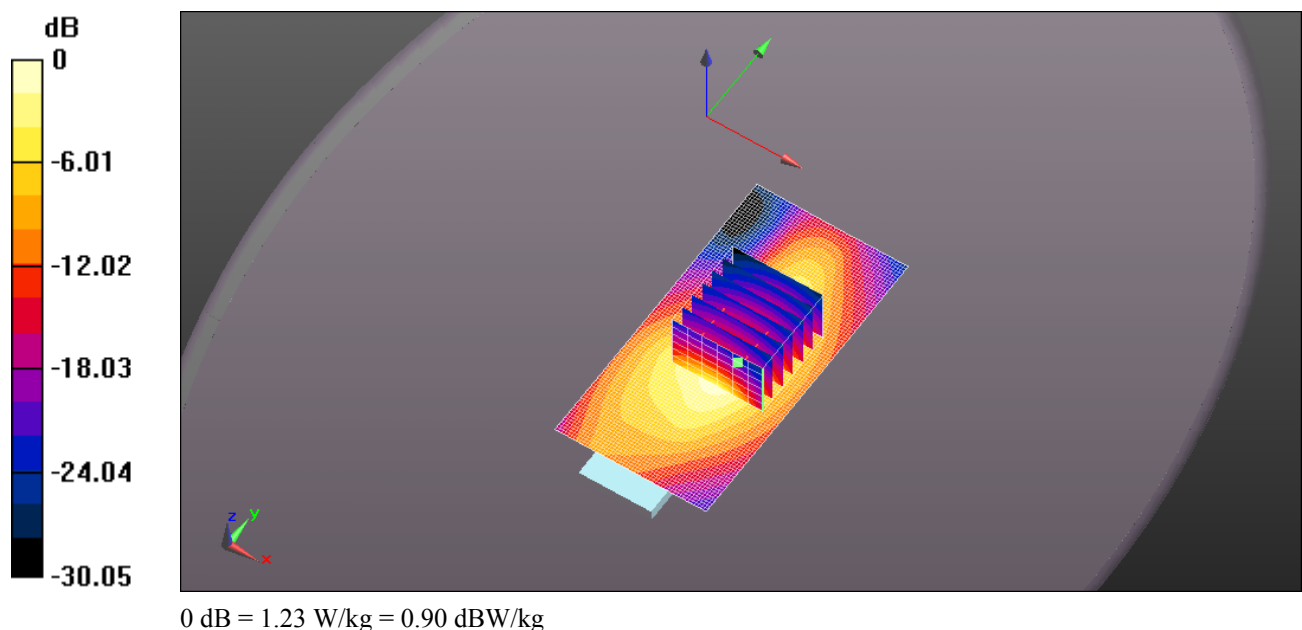
Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.84 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.444 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.25 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 PlayerMicS 600MHz 100mW Front-10433 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10433

Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 600 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 54.138$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (51x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.20 W/kg

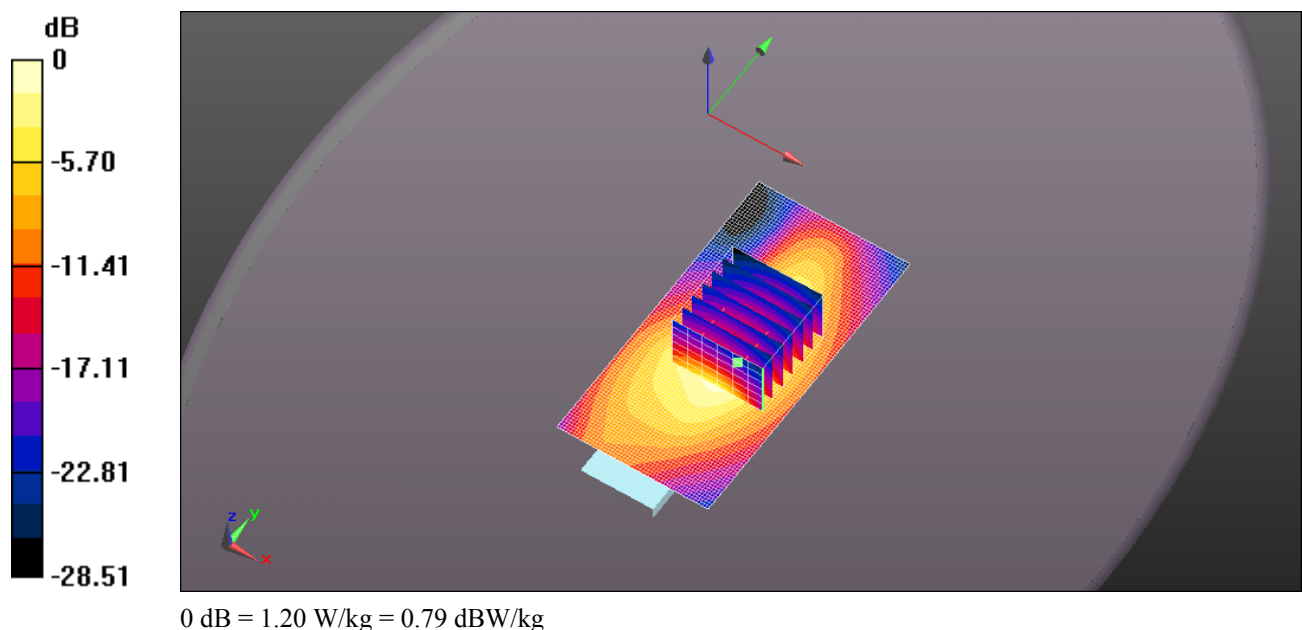
Configuration_Body_Q5X QT-5100 PlayerMicS-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.05 V/m ; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.765 W/kg ; SAR(10 g) = 0.430 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.23 W/kg



					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 Incognito 100mW	20184	6	525	19.93	0.320	1.340	0.762	0.310	1.290	0.718
		7	544	19.81	0.320	0.862	0.488			
		8	563	19.98	0.340	0.640	0.361			
		9	581	20.07	0.420	0.630	0.354			
		10	600	19.82	0.340	0.659	0.375			

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 525 MHz 100mW Front-20184 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20184

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (71x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.99 W/kg

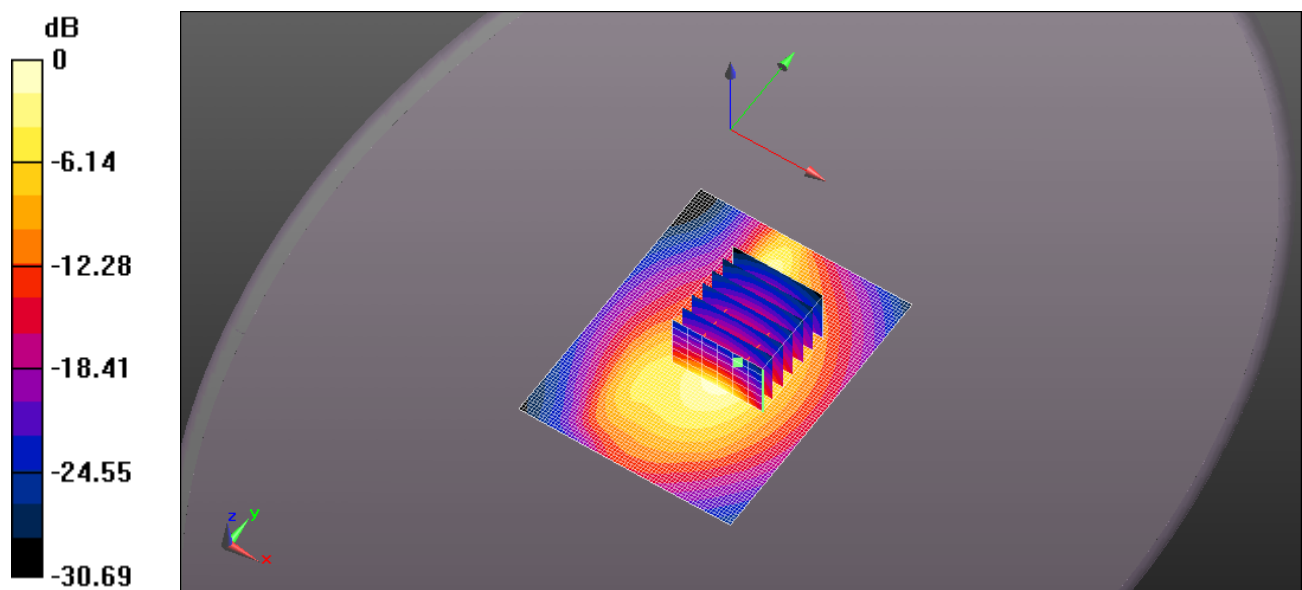
Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.34 V/m; Power Drift = 0.30 dB

Peak SAR (extrapolated) = 2.50 W/kg

SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.718 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.96 W/kg



0 dB = 1.99 W/kg = 3.00 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 525 MHz 100mW Back-20184 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20184

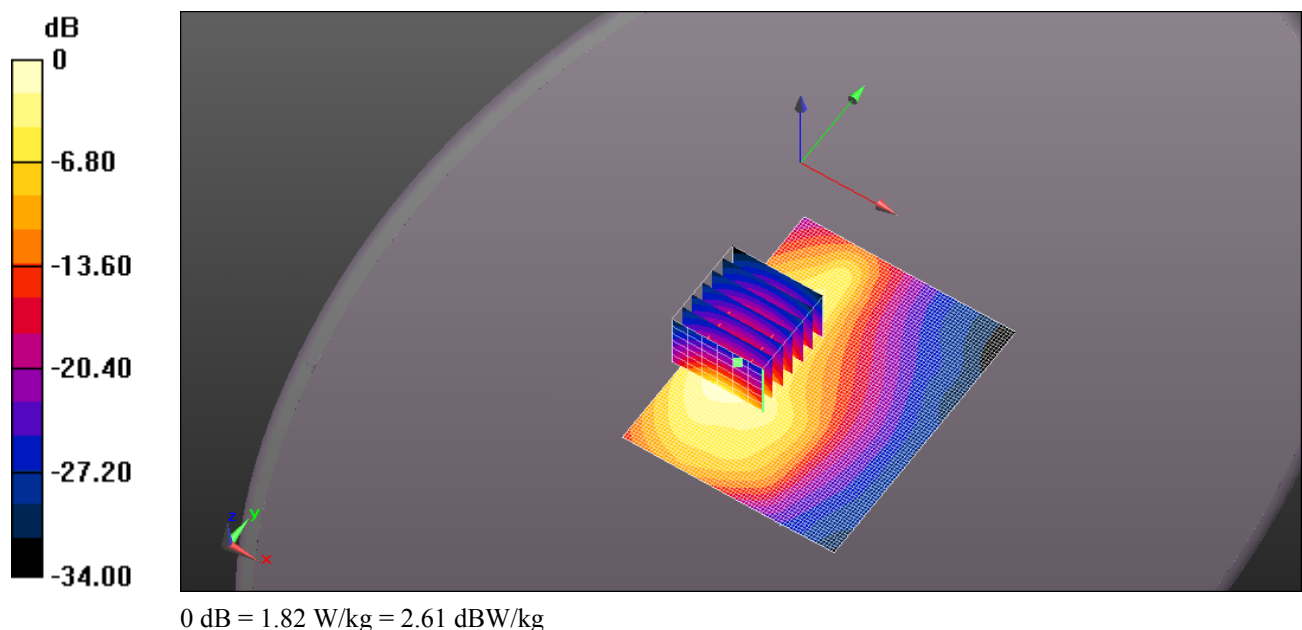
Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.82 W/kg

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 8.017 V/m; Power Drift = 0.32 dB
Peak SAR (extrapolated) = 2.52 W/kg
SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.762 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.94 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: Q5X-064Q QT-5100 Incognito 544 MHz 100mW Back-20184 .da52:0

DUT: QT-5100; Type: UHF Transmitter; Serial: 20184

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 55.067$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.17 W/kg

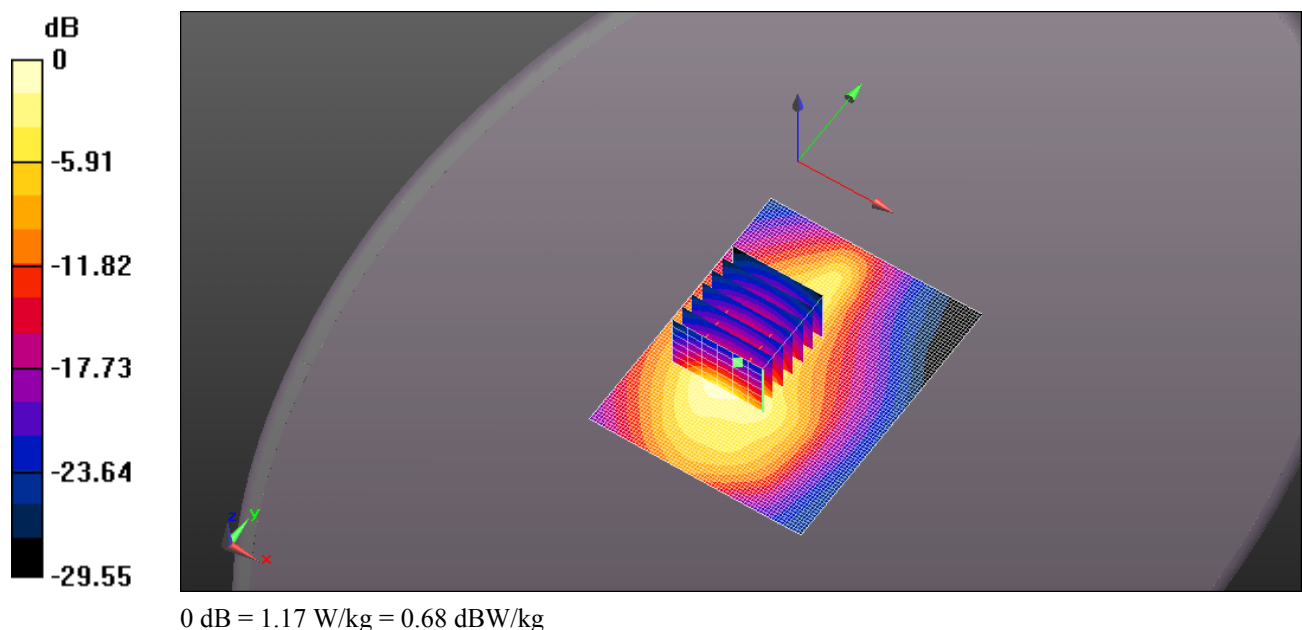
Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 6.476 V/m; Power Drift = 0.32 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.862 W/kg; SAR(10 g) = 0.488 W/kg (SAR corrected for target medium)

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



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 563 MHz 100mW Back-20184 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20184

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 54.83$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.858 W/kg

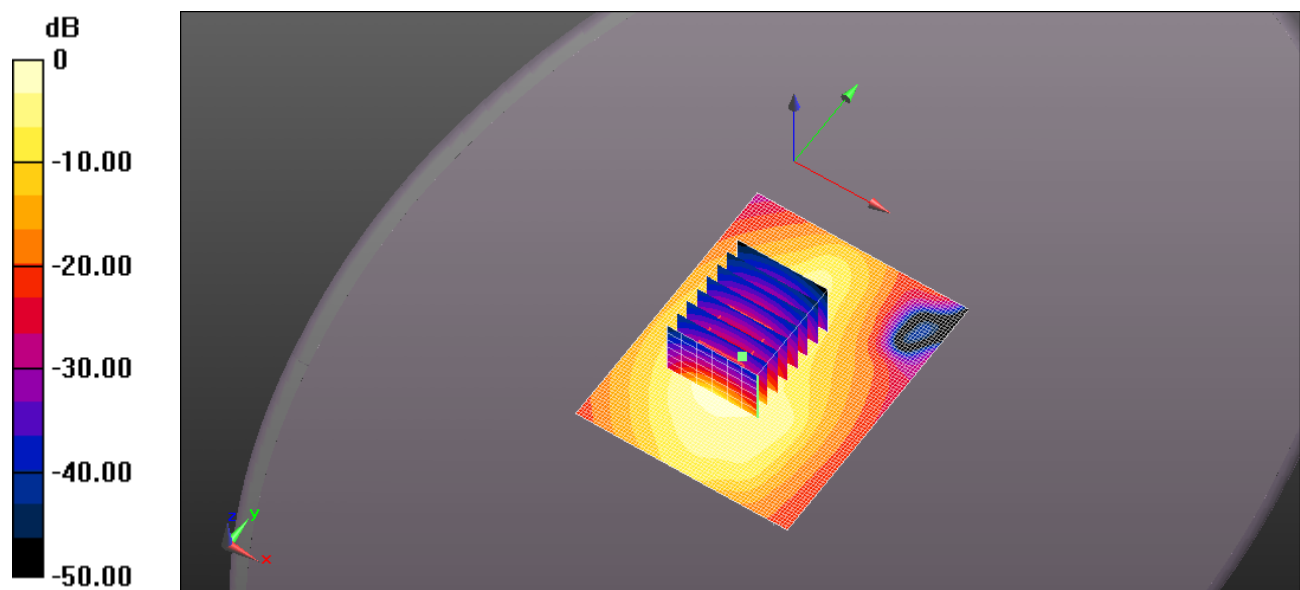
Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 5.353 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.640 W/kg; SAR(10 g) = 0.361 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.995 W/kg



0 dB = 0.858 W/kg = -0.67 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 581 MHz 100mW Back-20184 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20184

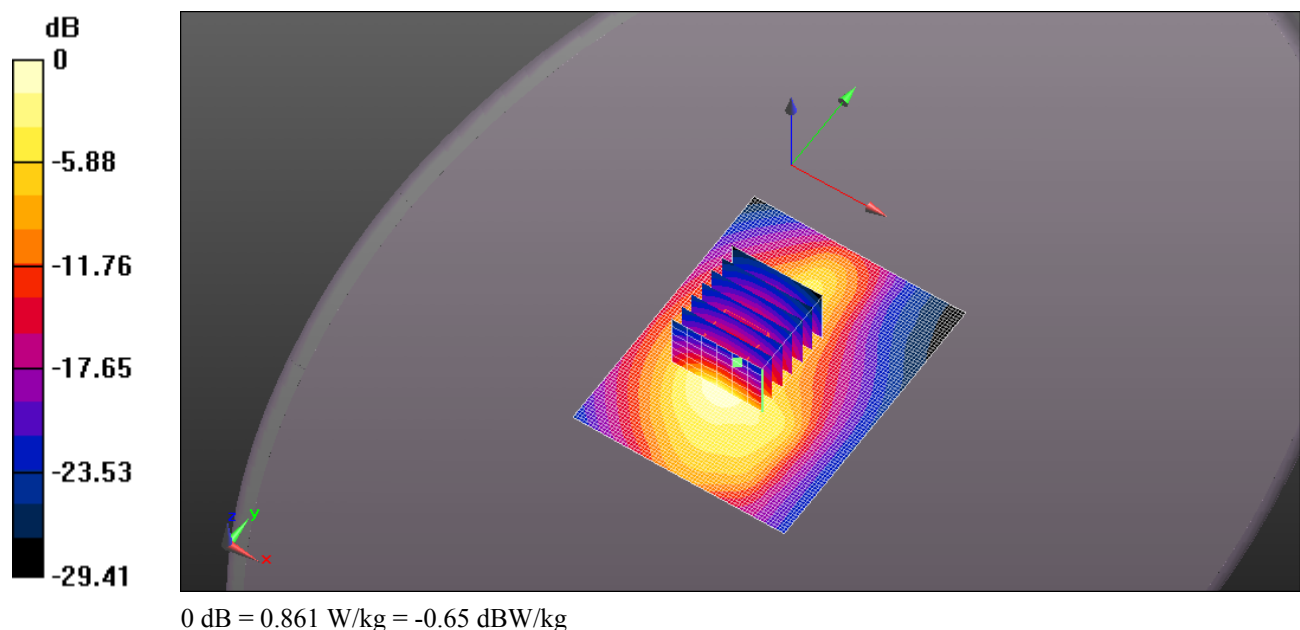
Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.861 W/kg

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.738 V/m; Power Drift = 0.42 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.354 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.993 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 Incognito 600 MHz 100mW Back-20184 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20184

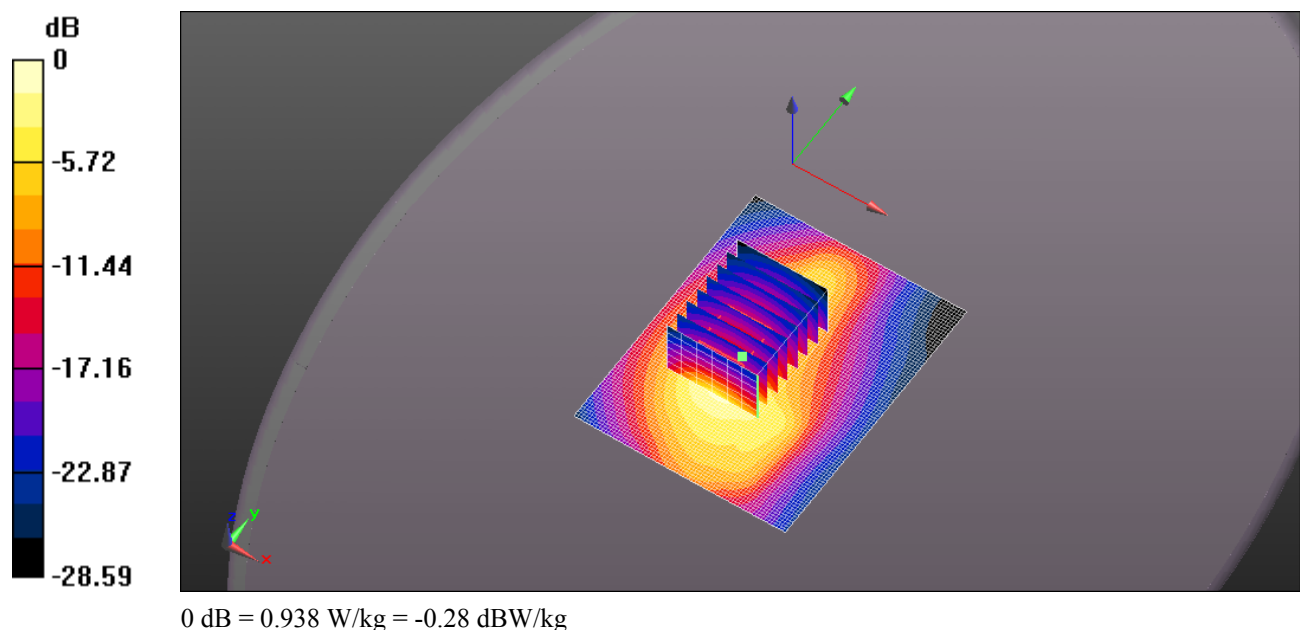
Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 600$ MHz; $\sigma = 0.933$ S/m; $\epsilon_r = 54.138$; $\rho = 1000$ kg/m³; Phantom section: Flat
Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.938 W/kg

Configuration_Body_Q5X QT-5100 Incognito-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.768 V/m; Power Drift = 0.34 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.375 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.04 W/kg



					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 BELTMIC 100W	20185	6	525	19.94	0.320	1.250	0.759	0.160	1.390	0.804
		7	544	19.79				0.180	1.320	0.761
		8	563	19.92				0.190	1.310	0.754
		9	581	19.98				0.020	0.901	0.519
		10	600	20.13				0.120	0.699	0.400

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 BeltMic 525 MHz 100mW Front-20185 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20185

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525$ MHz; $\sigma = 0.862$ S/m; $\epsilon_r = 55.201$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.82 W/kg

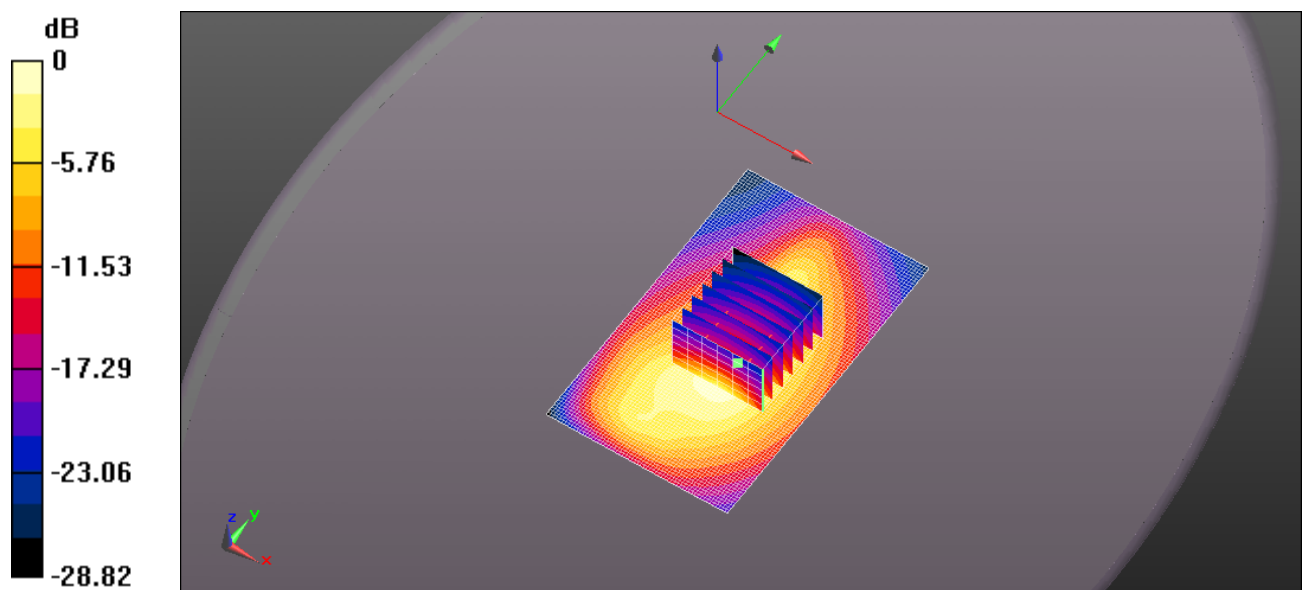
Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.62 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.63 W/kg

SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.804 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.06 W/kg



0 dB = 1.82 W/kg = 2.61 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 BeltMic 525 MHz 100mW Back-20185 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20185

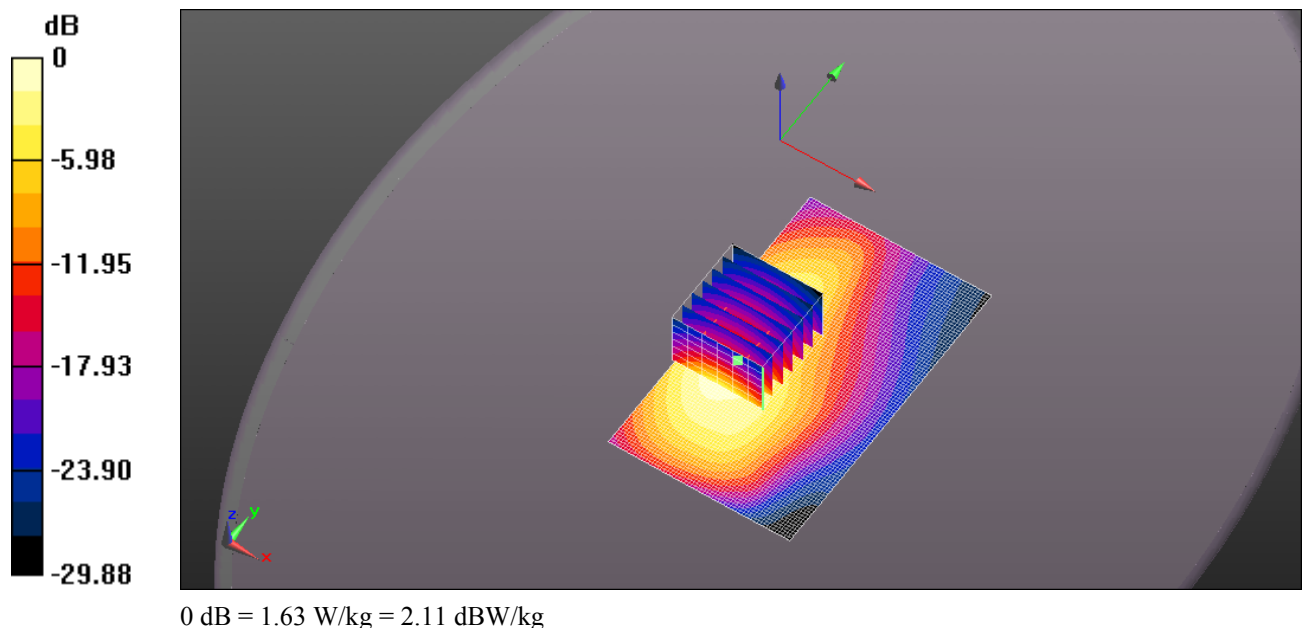
Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.63 W/kg

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 13.33 V/m; Power Drift = 0.32 dB
Peak SAR (extrapolated) = 2.15 W/kg
SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.759 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.76 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 BeltMic 544 MHz 100mW Front-20185 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20185

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 55.067$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.75 W/kg

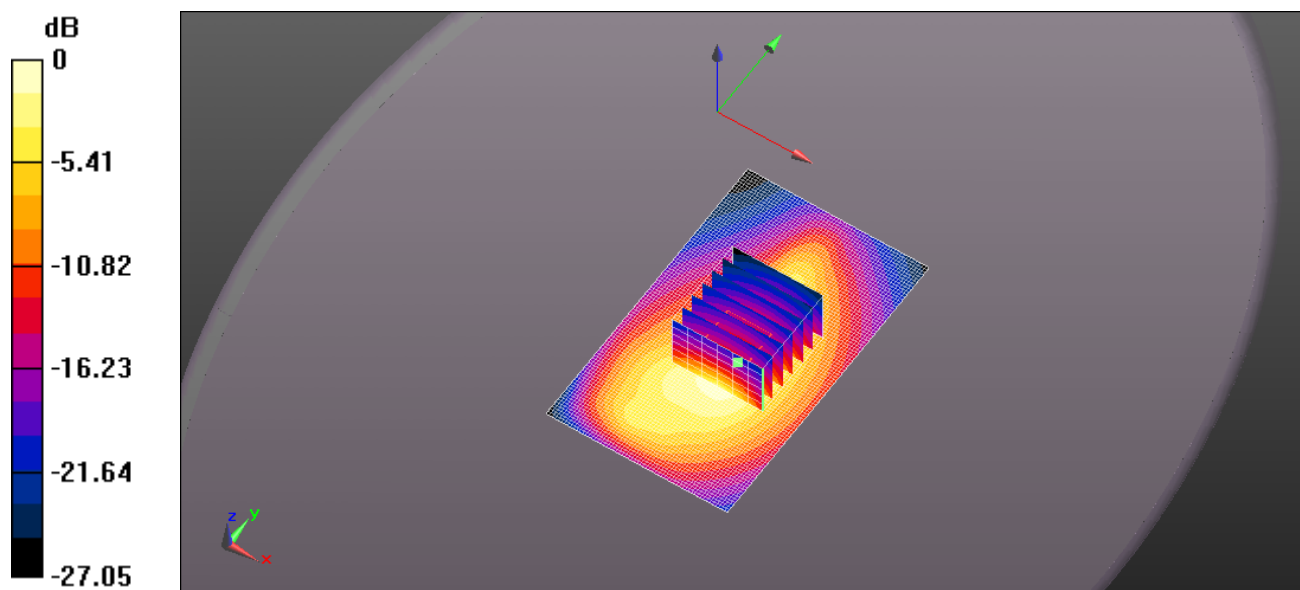
Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 38.45 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 1.32 W/kg; SAR(10 g) = 0.761 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.75 W/kg = 2.43 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 BeltMic 563 MHz 100mW Front-20185 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20185

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 54.83$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.78 W/kg

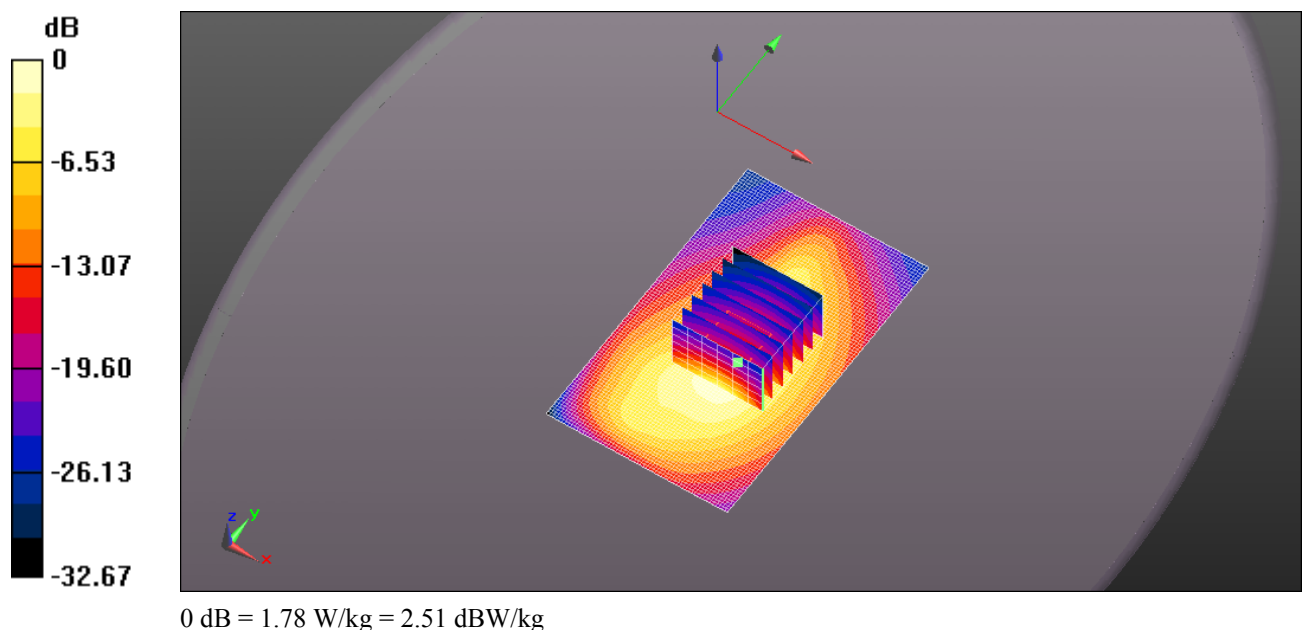
Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 38.36 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.754 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.99 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 BeltMic 581 MHz 100mW Front-20185 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20185

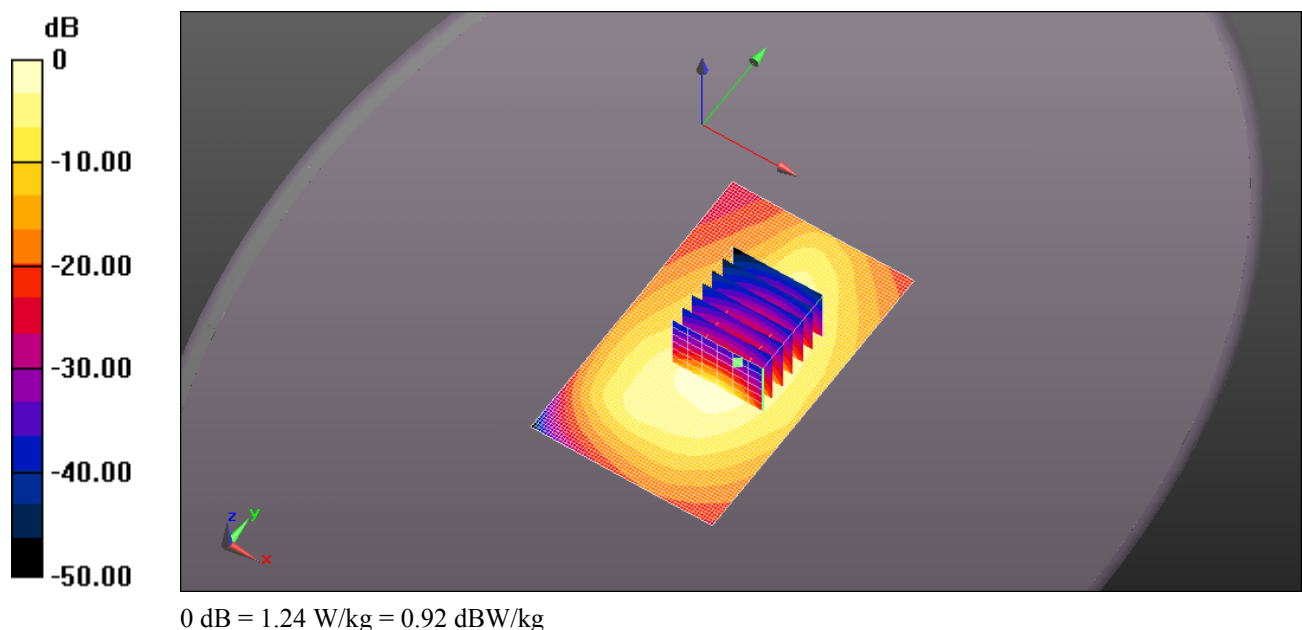
Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.24 W/kg

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.85 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.73 W/kg
SAR(1 g) = 0.901 W/kg; SAR(10 g) = 0.519 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.37 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 BeltMic 600 MHz 100mW Front-20185 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20185

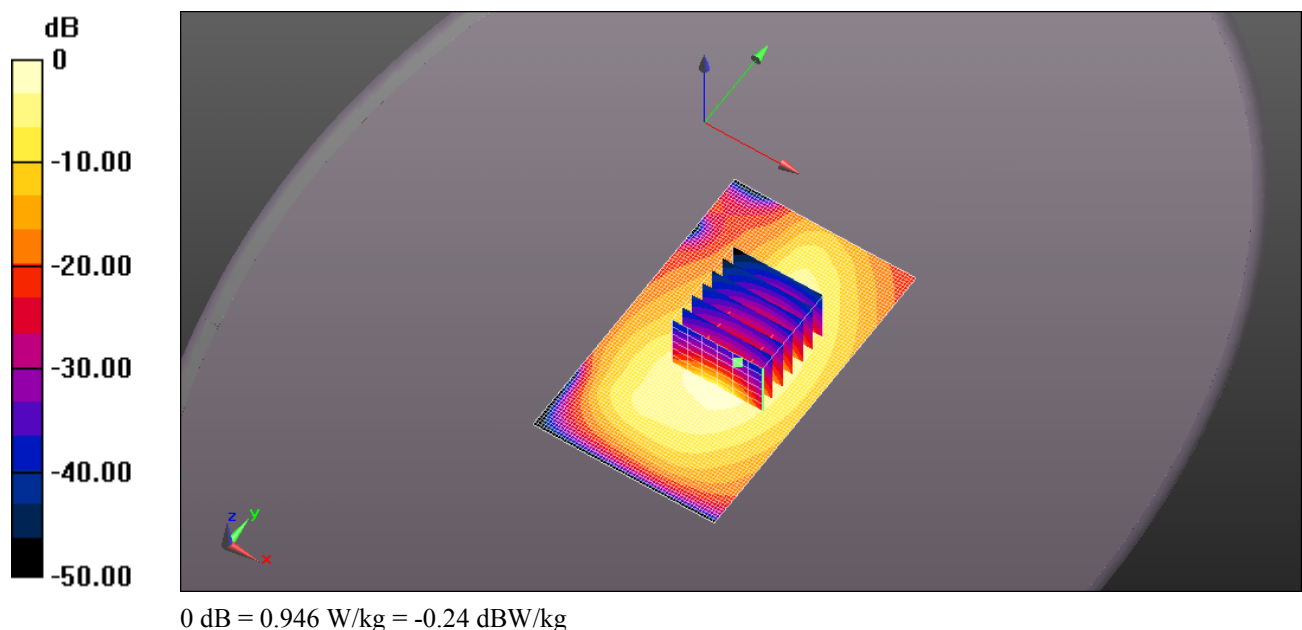
Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 600 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 54.138$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.946 W/kg

Configuration_Body_Q5X QT-5100 BeltMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 26.99 V/m ; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.699 W/kg ; SAR(10 g) = 0.400 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.10 W/kg



					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 REFMIC 100mW	10191	6	525	20.17	0.290	1.110	0.689	0.150	1.110	0.646
		7	544	19.90	0.190	0.911	0.562			
		8	563	20.14	0.260	0.773	0.472			
		9	581	19.88	0.310	0.700	0.427			
		10	600	19.92	0.190	0.620	0.376			

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMic 525 MHz 100mW Front-10191 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10191

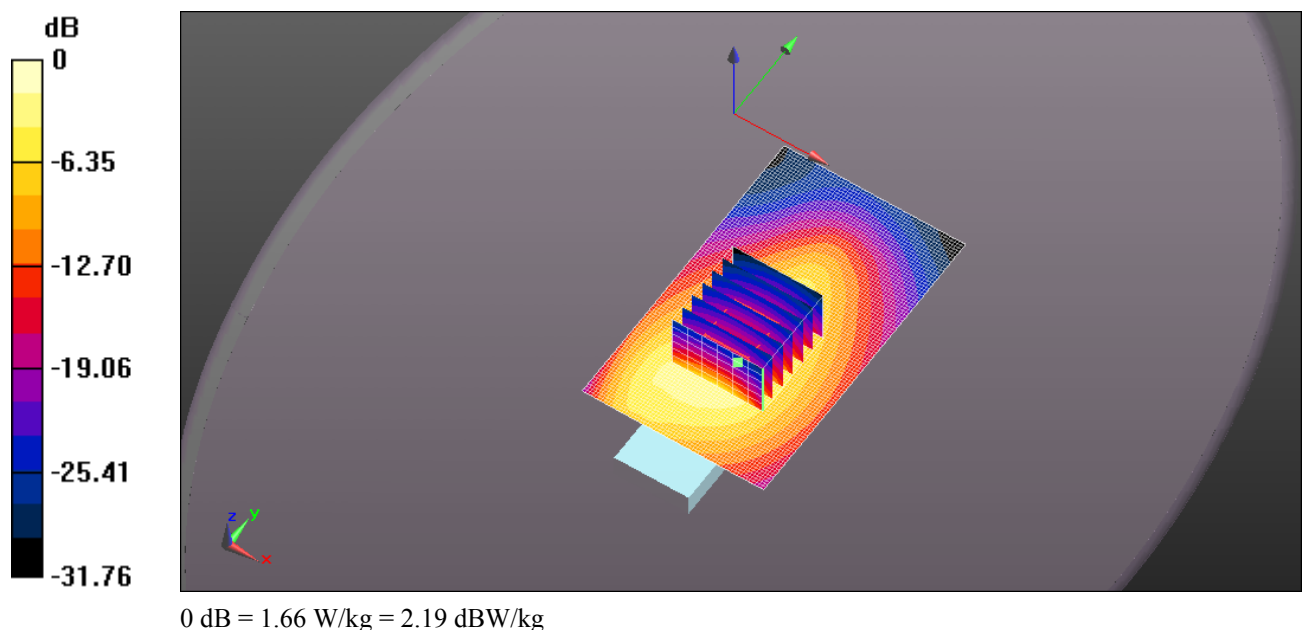
Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.66 W/kg

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 28.78 V/m ; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.14 W/kg
SAR(1 g) = 1.11 W/kg ; SAR(10 g) = 0.646 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.67 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMic 525 MHz 100mW Back-10191 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10191

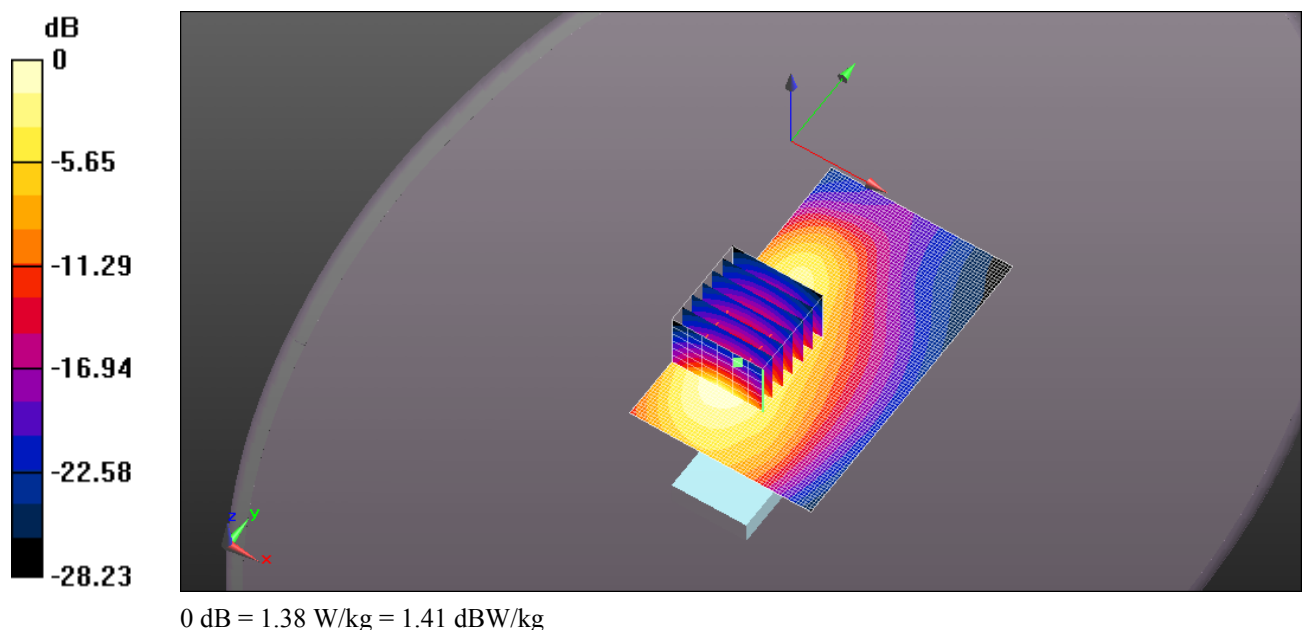
Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.38 W/kg

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.71 V/m ; Power Drift = 0.29 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 1.11 W/kg ; SAR(10 g) = 0.689 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.54 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMic 544 MHz 100mW Back-10191 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10191

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544$ MHz; $\sigma = 0.876$ S/m; $\epsilon_r = 55.067$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.31 W/kg

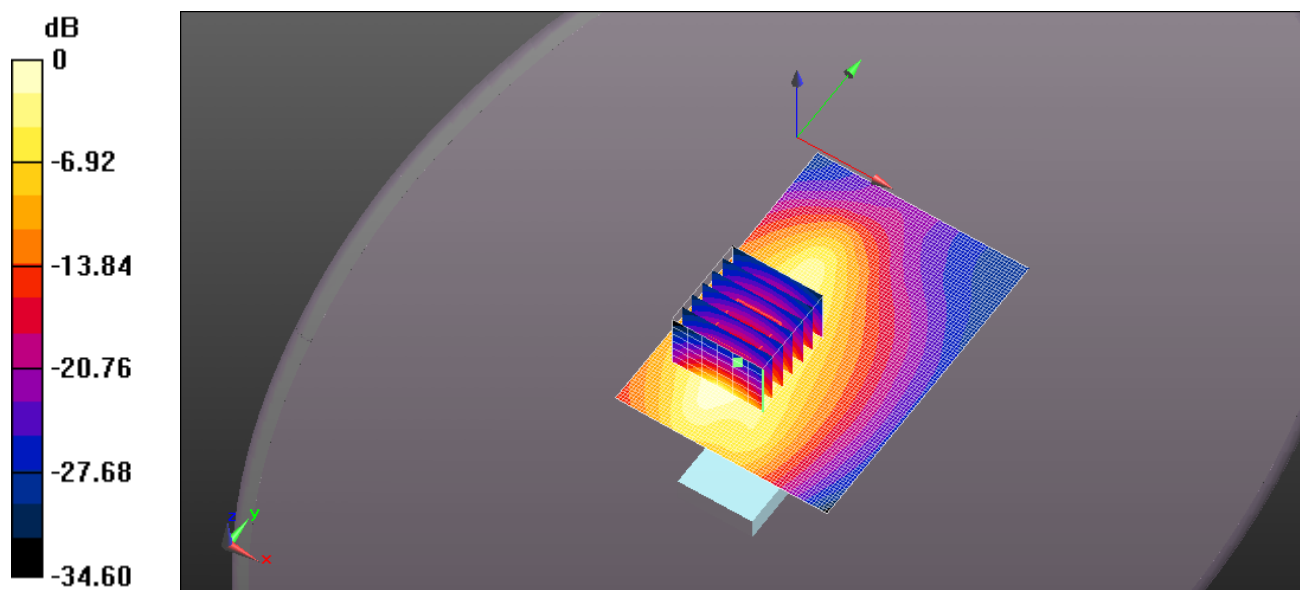
Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 9.066 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.562 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.27 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMic 563MHz 100mW Back-10191 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10191

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 54.83$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

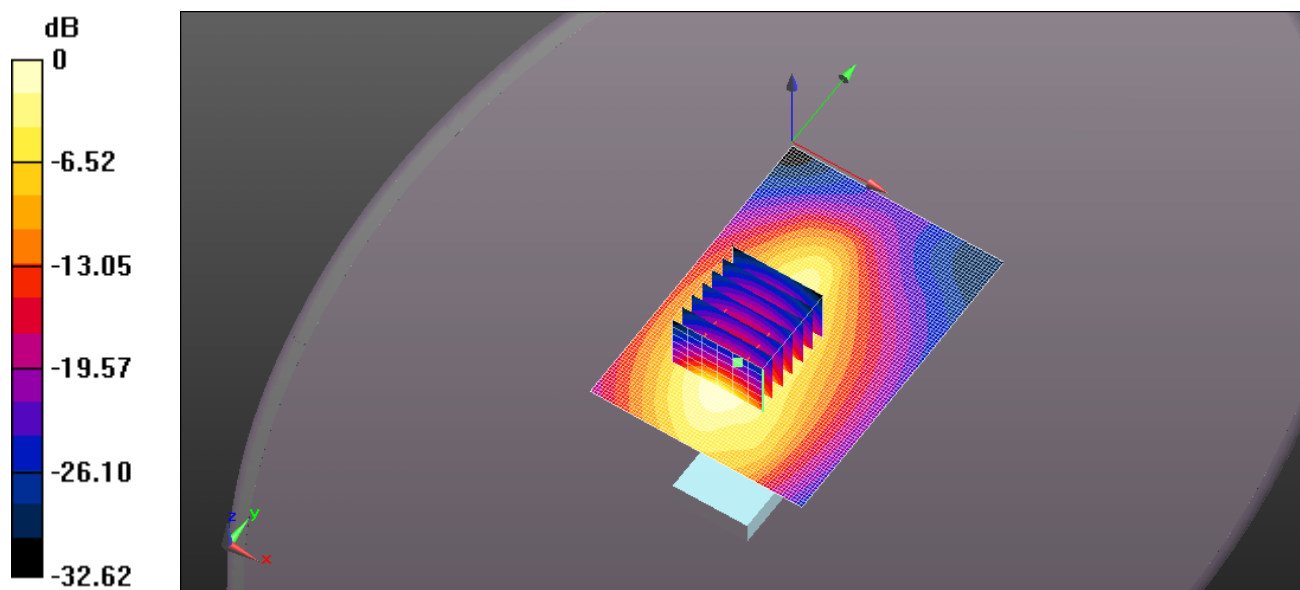
Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.986 V/m; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.472 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.11 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMic 581MHz 100mW Back-10191 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10191

Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

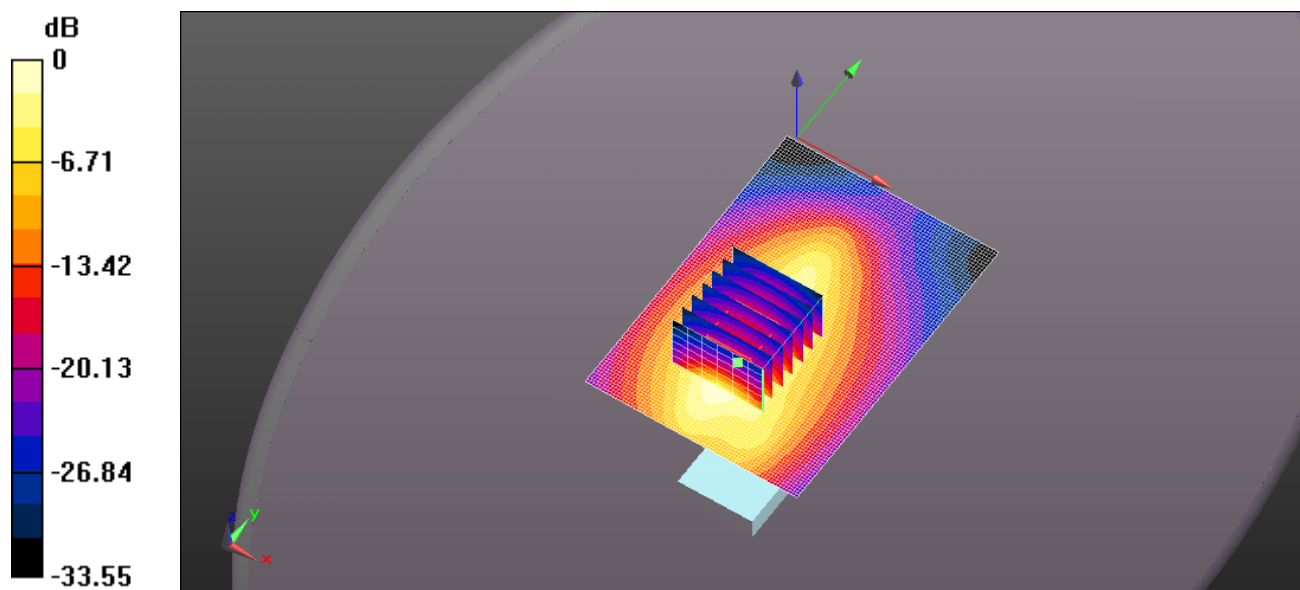
Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.262 V/m; Power Drift = 0.31 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.700 W/kg; SAR(10 g) = 0.427 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMic 600MHz 100mW Back-10191 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 10191

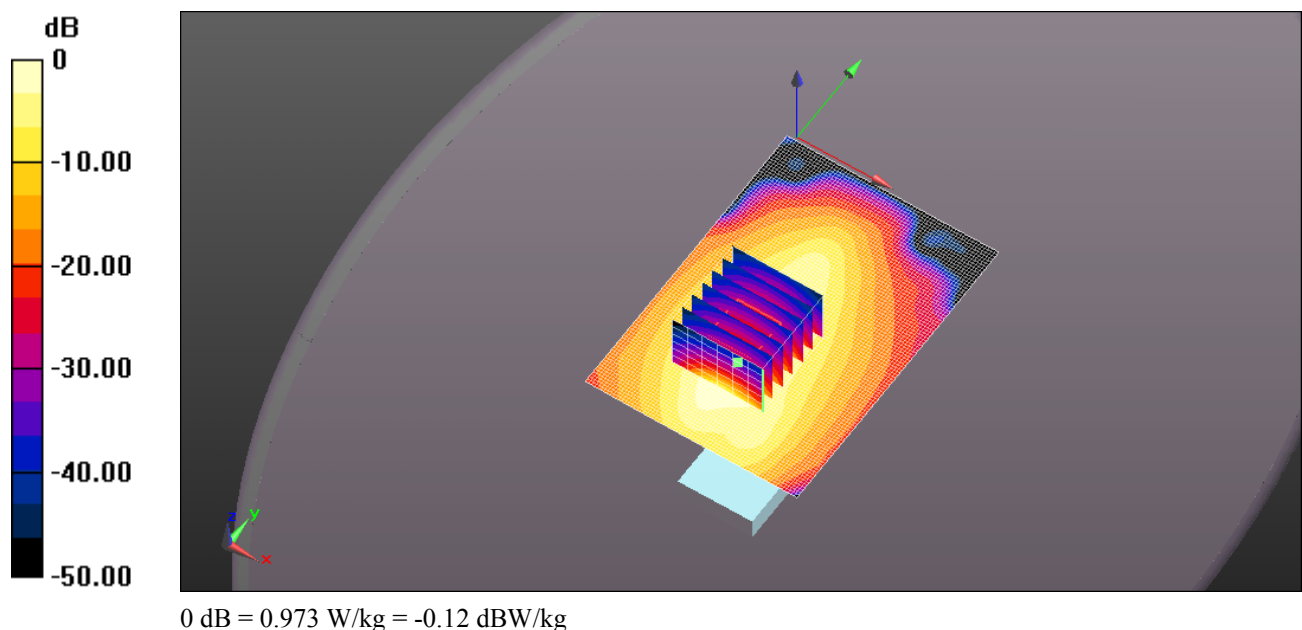
Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 600 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 54.138$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.973 W/kg

Configuration_Body_Q5X QT-5100 REFMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.701 V/m ; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 1.11 W/kg
SAR(1 g) = 0.620 W/kg ; SAR(10 g) = 0.376 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.922 W/kg



Wireless Microphone Audio Transmitter, M/N: QT-5100

					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 REFMICHD 100mW	20103	6	525	20.00	0.220	0.836	0.521	0.250	1.150	0.694
		7	544	20.00				0.240	0.790	0.477
		8	563	19.98				0.330	0.590	0.358
		9	581	19.99				0.280	0.572	0.348
		10	600	20.08				0.330	0.577	0.353

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMicHD 525 MHz 100mW Front-20103 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20103

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525$ MHz; $\sigma = 0.862$ S/m; $\epsilon_r = 55.201$; $\rho = 1000$ kg/m³; Phantom section: Flat
Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

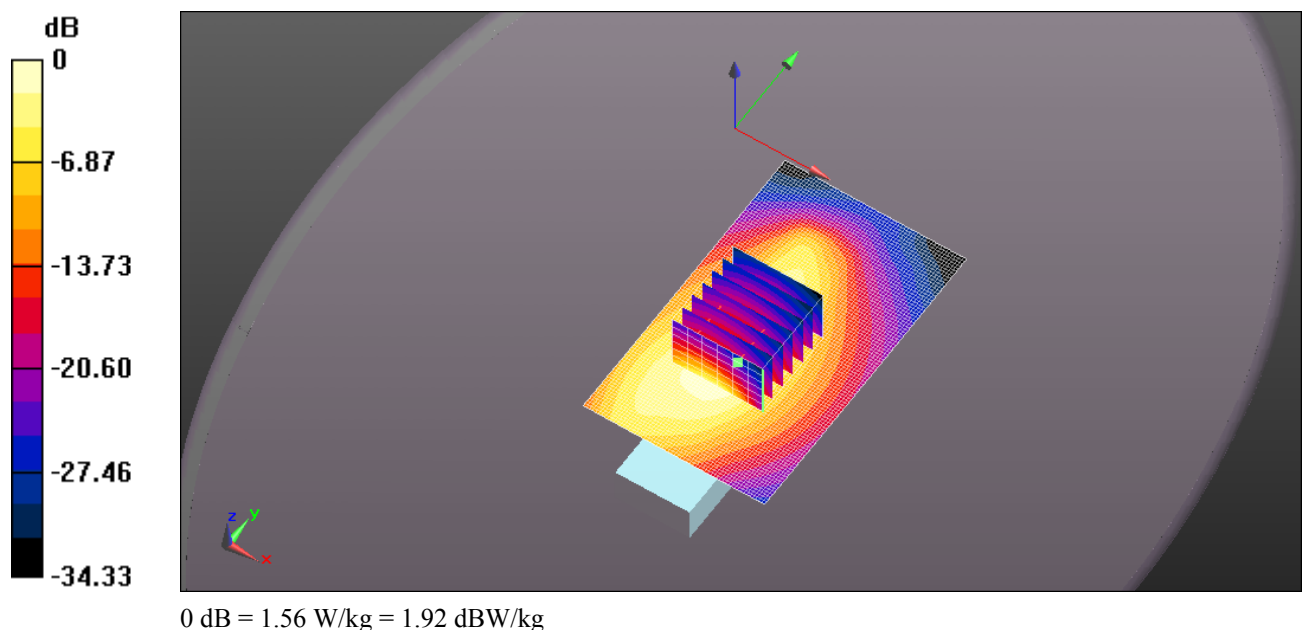
Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 19.50 V/m; Power Drift = 0.25 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.694 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.64 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMicHD 525 MHz 100mW Back-20103 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20103

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat
Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.10 W/kg

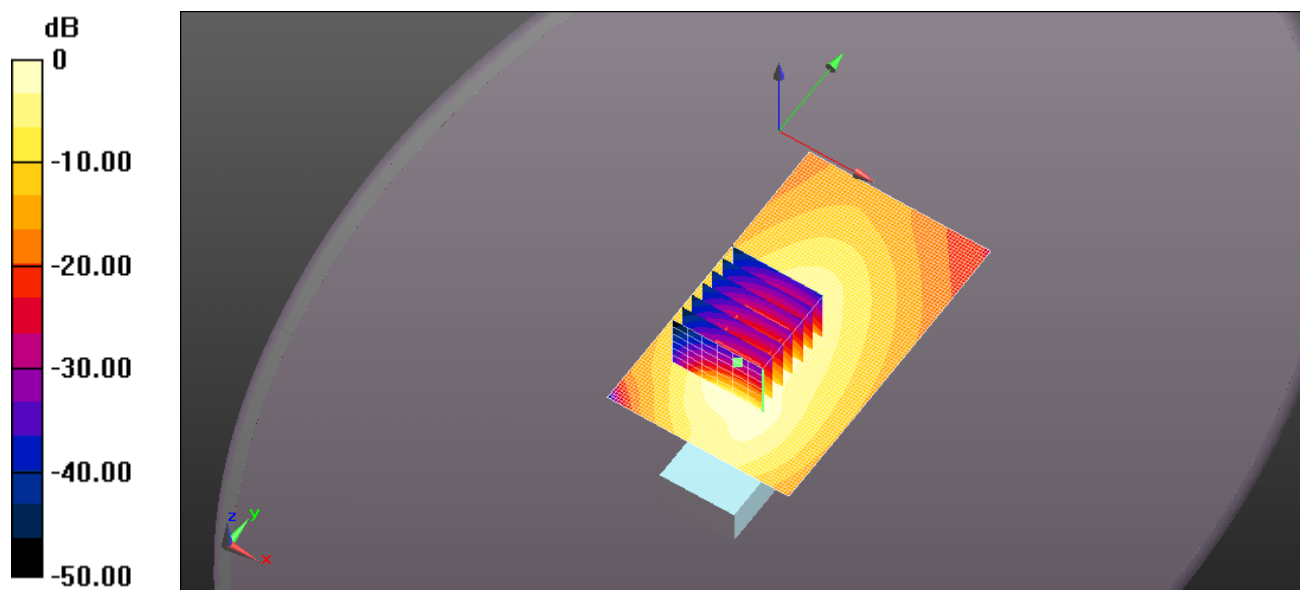
Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.33 V/m ; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.836 W/kg ; SAR(10 g) = 0.521 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMicHD 544 MHz 100mW Front-20103 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20103

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 55.067$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.06 W/kg

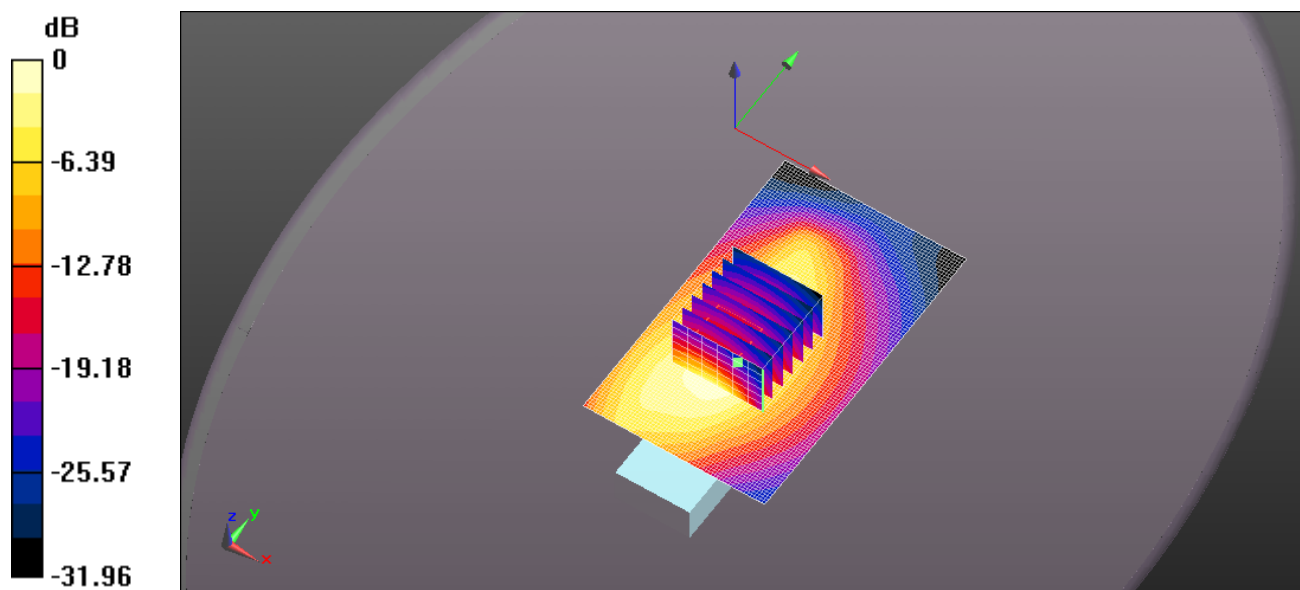
Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.11 V/m ; Power Drift = 0.24 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.790 W/kg ; SAR(10 g) = 0.477 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.06 W/kg = 0.27 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMicHD 563MHz 100mW Front-20103 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20103

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 54.83$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.810 W/kg

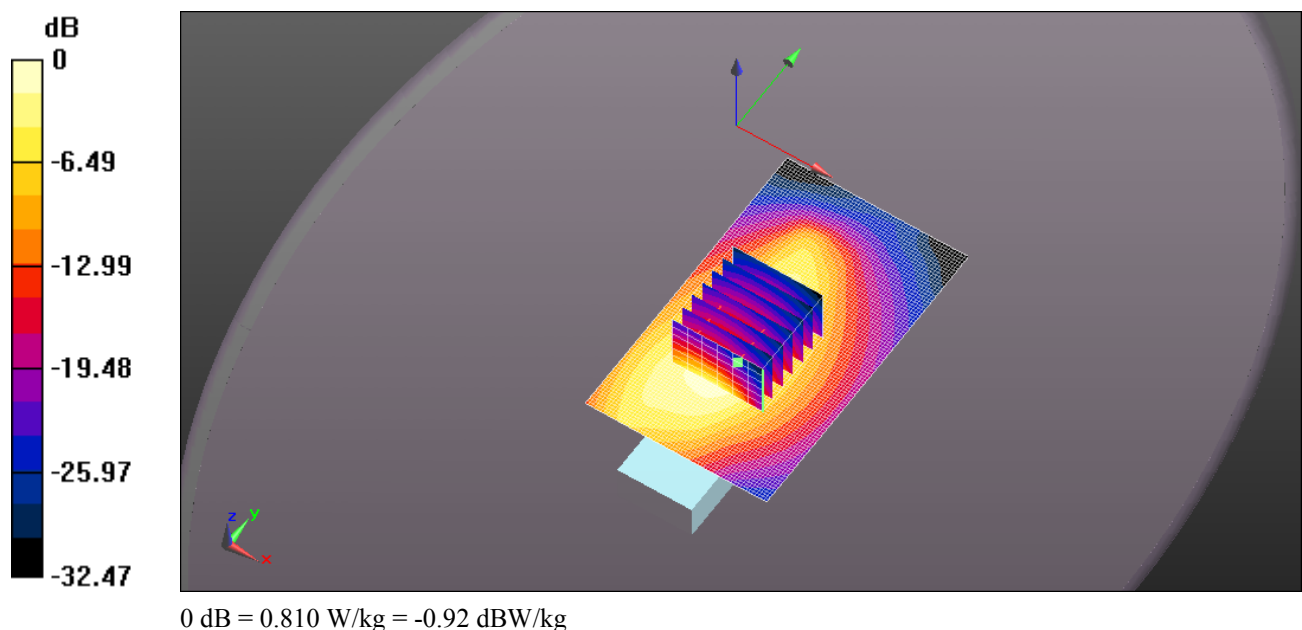
Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.01 V/m; Power Drift = 0.33 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.358 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.856 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMicHD 581MHz 100mW Front-20103 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20103

Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.805 W/kg

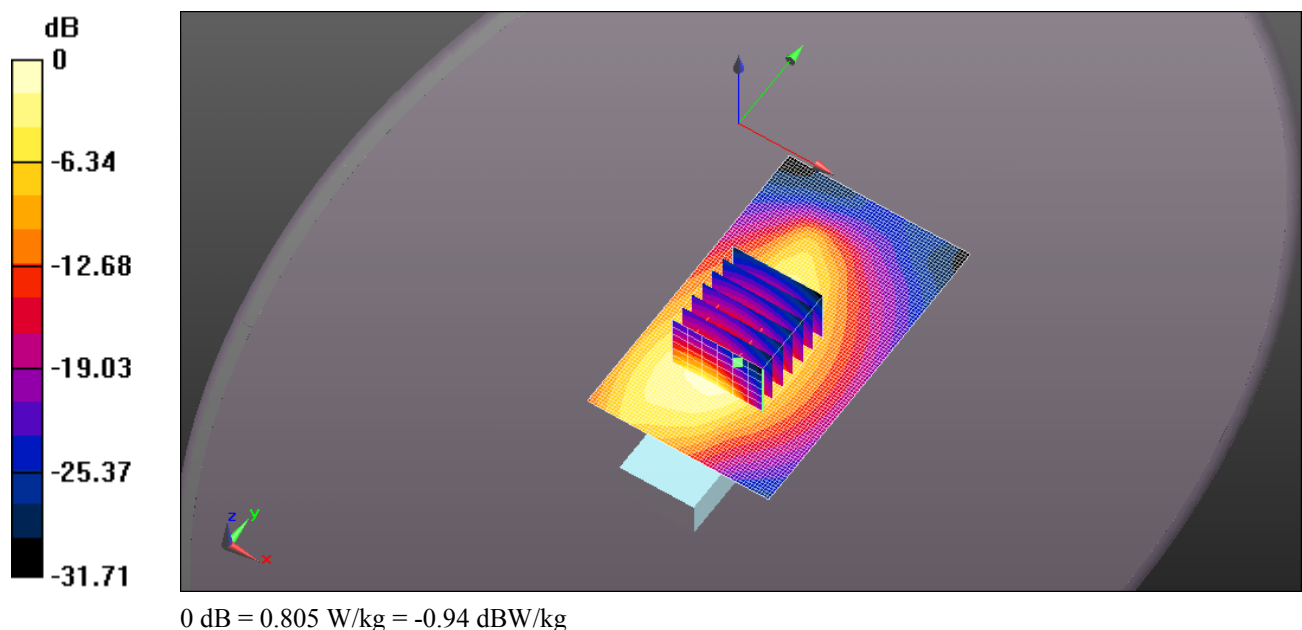
Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 13.46 V/m; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.348 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.837 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 RefMicHD 600MHz 100mW Front-20103 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20103

Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 600 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 54.138$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat
Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body
Front, P=100mW, d=0mm/Area Scan (61x101x1):** Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.832 W/kg

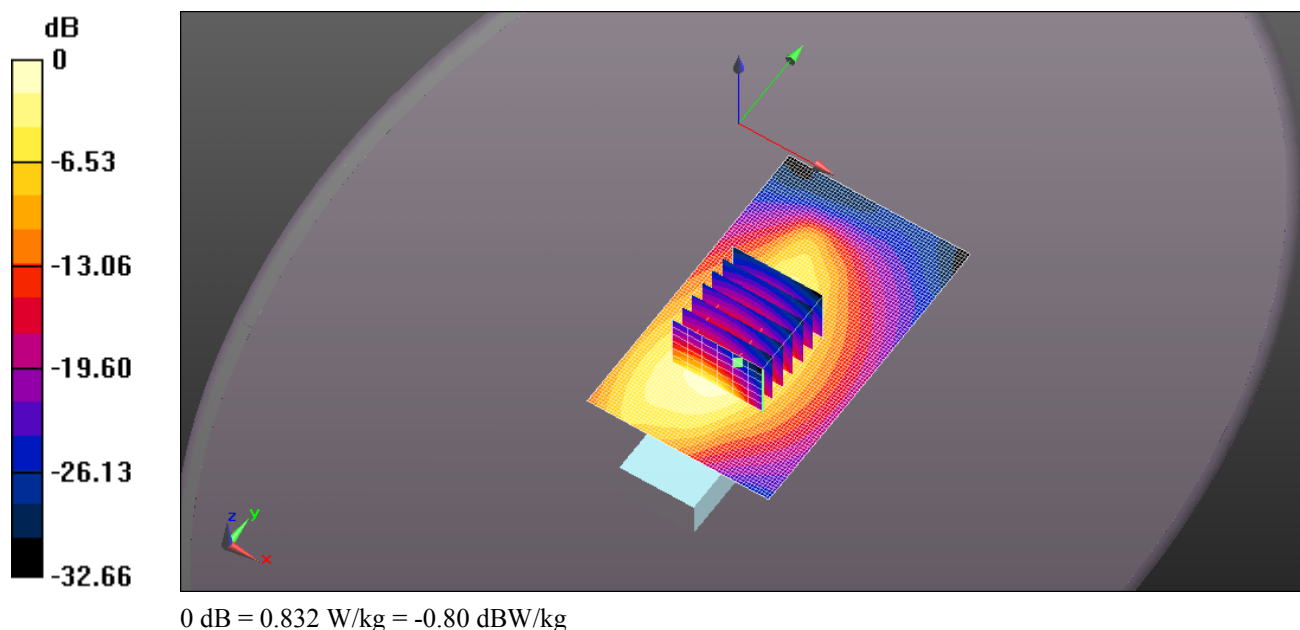
**Configuration_Body_Q5X QT-5100 REFMicHD-Mid Band 525-600 MHz 100mW/Body
Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0:** Measurement grid: $dx=7.5\text{mm}$,
 $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.77 V/m ; Power Drift = 0.33 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.577 W/kg ; SAR(10 g) = 0.353 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.862 W/kg



					Device Back Facing Phantom (Required Mounting Per User Manual)			Device Front Facing Phantom (Least antenna separation distance)		
Device Model	Device S/N	Channel	Frequency (MHz)	Power (dBm)	Power Drift (dB)	Measured BODY		Power Drift (dB)	Measured BODY	
						SAR1g (mW/g)	SAR10g (mW/g)		SAR1g (mW/g)	SAR10g (mW/g)
QT-5100 AquaMic 100mW	20195	6	525	19.80				0.200	0.749	0.416
		7	544	20.05	0.220	0.277	0.176	0.260	0.804	0.450
		8	563	20.04				0.260	0.793	0.450
		9	581	20.06				0.290	0.773	0.442
		10	600	20.01				0.280	0.576	0.333

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 525 MHz 100mW Front-20195 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20195

Communication System: UID 0, CW (0); Frequency: 525 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 525 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 55.201$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat
Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.991 W/kg

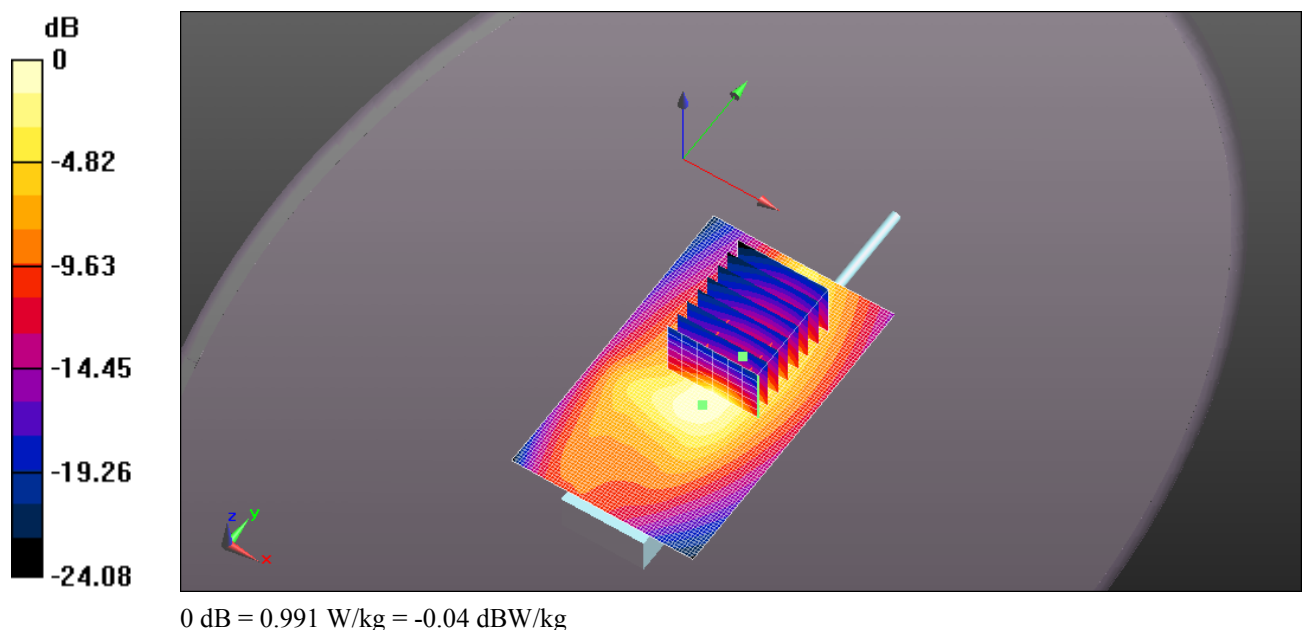
Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x8x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.31 V/m ; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.749 W/kg ; SAR(10 g) = 0.416 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.14 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 544 MHz 100mW Front-20195 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20195

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 55.067$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.20 W/kg

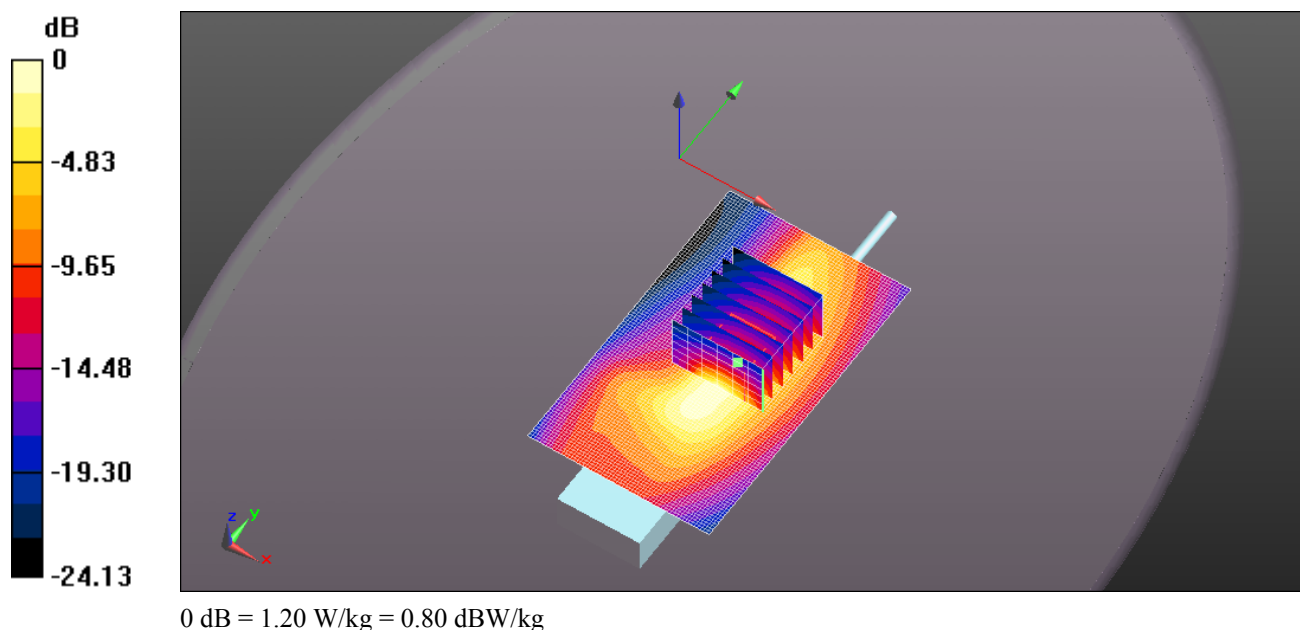
Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.96 V/m ; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.804 W/kg ; SAR(10 g) = 0.450 W/kg (SAR corrected for target medium)

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



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 544 MHz 100mW Back-20195 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20195

Communication System: UID 0, CW (0); Frequency: 544 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 544 \text{ MHz}$; $\sigma = 0.876 \text{ S/m}$; $\epsilon_r = 55.067$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Area Scan (71x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.414 W/kg

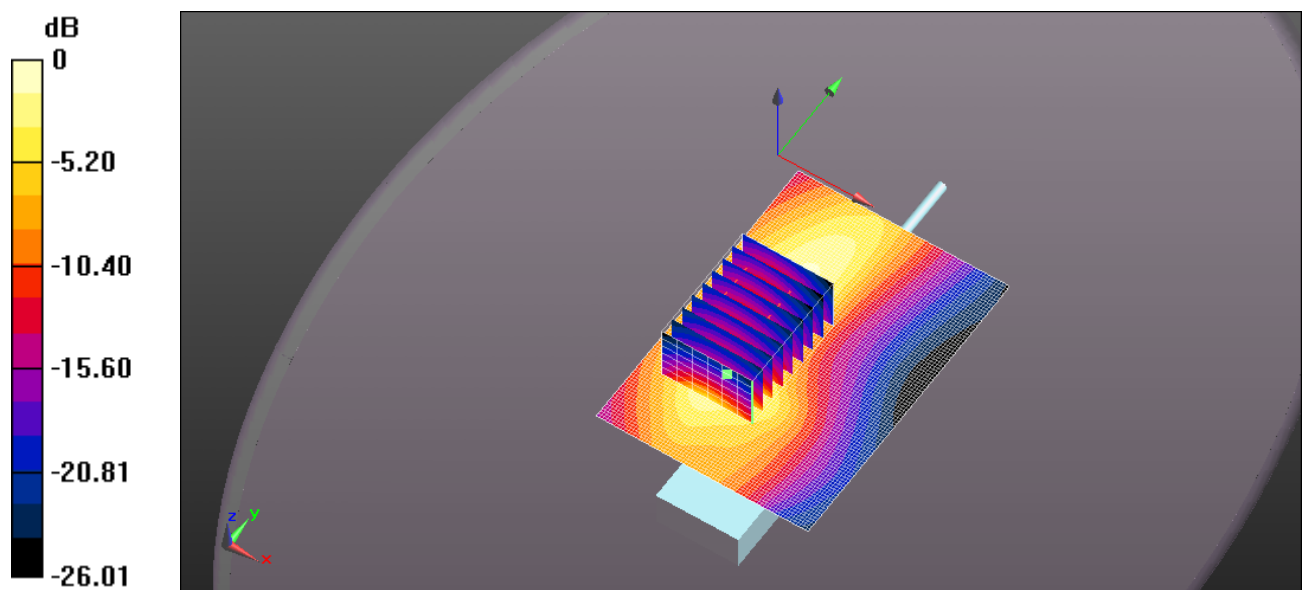
Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Back, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x9x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.004 V/m ; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 0.488 W/kg

SAR(1 g) = 0.277 W/kg ; SAR(10 g) = 0.176 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.393 W/kg



0 dB = 0.414 W/kg = -3.83 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 563 MHz 100mW Front-20195 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20195

Communication System: UID 0, CW (0); Frequency: 563 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 563 \text{ MHz}$; $\sigma = 0.892 \text{ S/m}$; $\epsilon_r = 54.83$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.23 W/kg

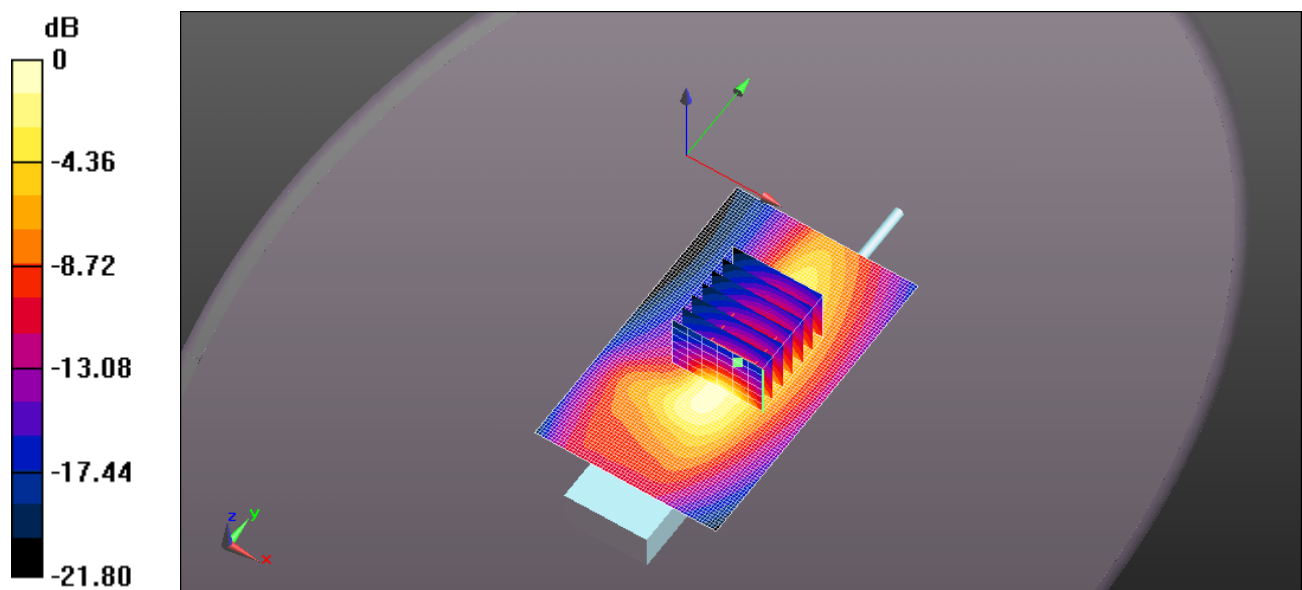
Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.37 V/m ; Power Drift = 0.26 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.793 W/kg ; SAR(10 g) = 0.450 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = $1.23 \text{ W/kg} = 0.91 \text{ dBW/kg}$

Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 581 MHz 100mW Front-20195 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20195

Communication System: UID 0, CW (0); Frequency: 581 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 581.25$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 54.473$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.21 W/kg

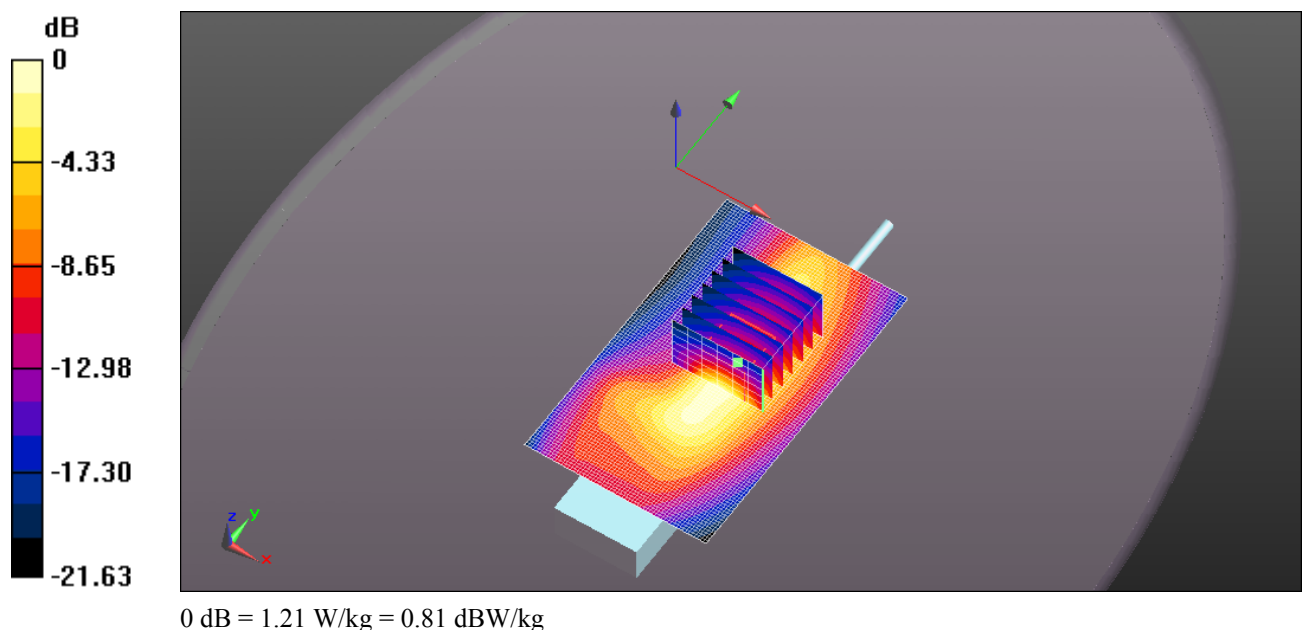
Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.40 V/m; Power Drift = 0.29 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.442 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.20 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [Q5X-064Q QT-5100 AquaMic 600 MHz 100mW Front-20195 .da52:0](#)

DUT: QT-5100; Type: UHF Transmitter; Serial: 20195

Communication System: UID 0, CW (0); Frequency: 600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 600 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 54.138$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.19, 10.19, 10.19); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/21/2017
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.918 W/kg

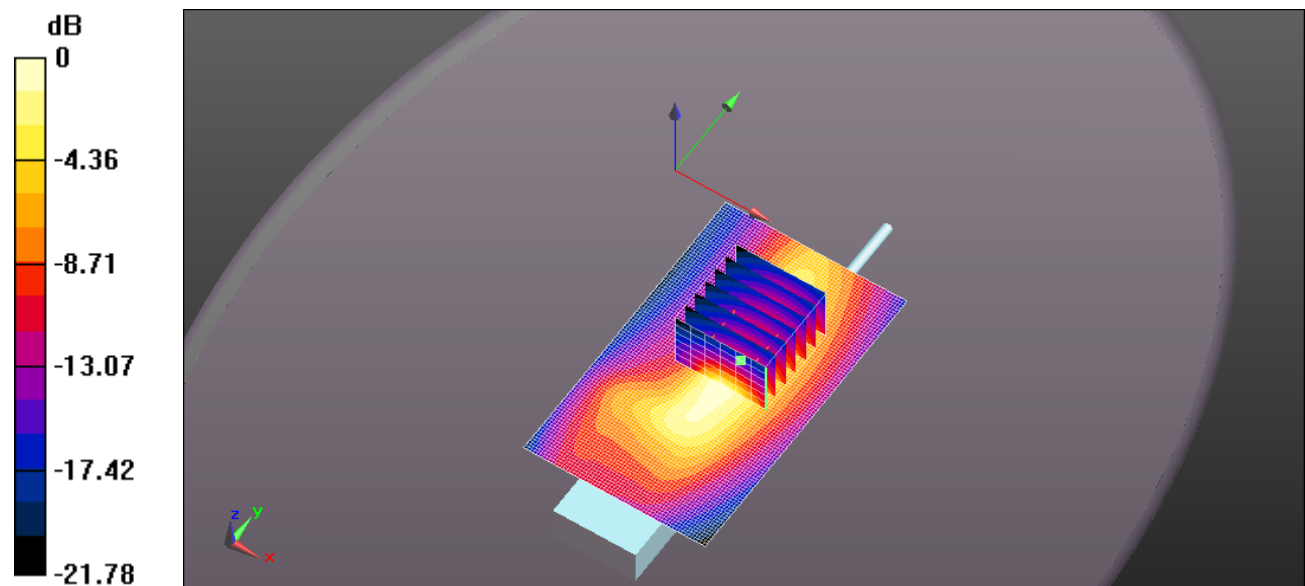
Configuration_Body_Q5X QT-5100 AquaMic-Mid Band 525-600 MHz 100mW/Body Front, P=100mW, d=0mm/Zoom Scan (5x5x7) (7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.25 V/m ; Power Drift = 0.28 dB

Peak SAR (extrapolated) = 1.18 W/kg

SAR(1 g) = 0.576 W/kg ; SAR(10 g) = 0.333 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.912 W/kg



0 dB = 0.918 W/kg = -0.37 dBW/kg