

# APPENDIX 1

## SAR Measurement Data

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## EXHIBIT 1. HEAD SAR MEASUREMENTS

### Head SAR Measurement Summary

Antenna	Power (W)	C H	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift (dB)
			(MHz)	BP-303	BP-303	
				3350mAh	3350mAh	
FA-S76UC 380-520 MHz 136mm	5.22	2	450	8.16	6.01	-0.53

**FILE NAME:** [ICOM-563QR1 HEAD BP-303 FA-S76UC 136MM 450MHZ.DA52:0](#)

**DUT: IC-F4400DT; Type: UHF Digital Transceiver; Serial: 33000202**

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.859$  S/m;  $\epsilon_r = 42.607$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section:  
Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.15, 7.15, 7.15); Calibrated: 4/19/2021;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS2 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Head\_IC-F4400DT/Head Front, P=5W, d=25mm/Area Scan (61x161x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Maximum value of SAR (interpolated) = 9.48 W/kg

**Configuration\_Head\_IC-F4400DT/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)**

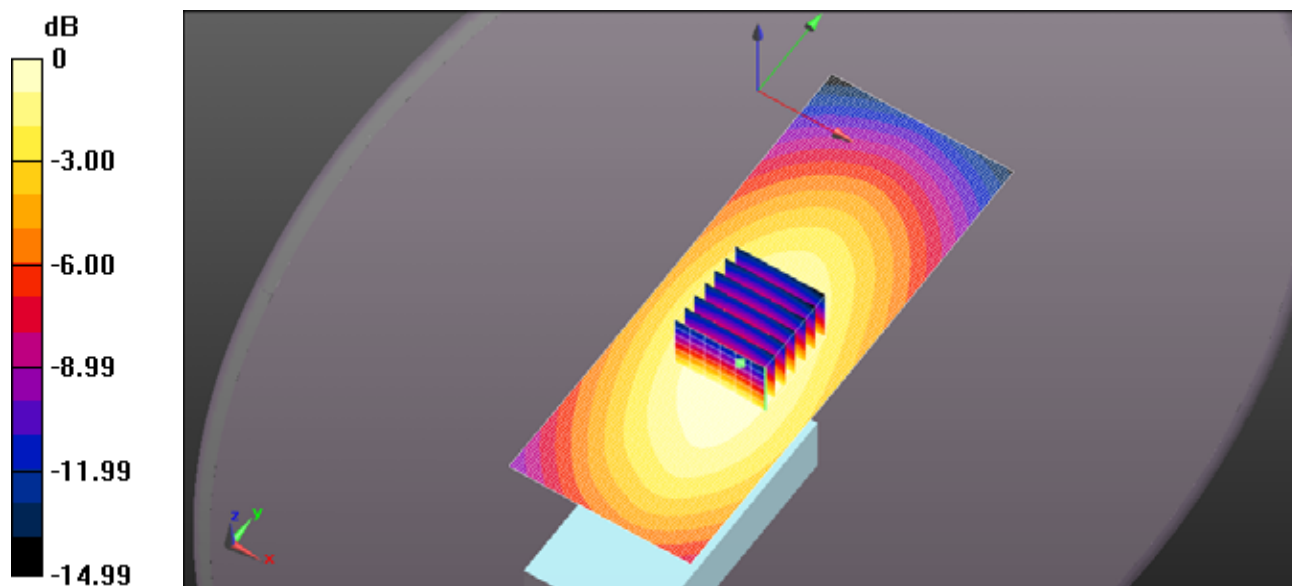
**(7x7x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 109.1 V/m; Power Drift = -0.53 dB

Peak SAR (extrapolated) = 11.5 W/kg

**SAR(1 g) = 8.16 W/kg; SAR(10 g) = 6.01 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 9.06 W/kg



0 dB = 9.48 W/kg = 9.77 dBW/kg

## EXHIBIT 2. BODY SAR MEASUREMENTS

### Body SAR Measurement Summary

Antenna	Power (W)	C H	CH. Freq	BODY SAR1g (W/Kg)	BODY SAR10g (W/Kg)	Power Drift
			(MHz)	BP-283,2010 mAh	BP-283,2010 mAh	(dB)
				MB-133, HM-222	MB-133, HM-222	
FA-S76UC 380-520 MHz 125mm	4.90	3	512	9.65	6.98	-0.21

**FILE NAME: ICOM-563QR1 BODY BP-283 FA-S76UC 125MM 512MHZ MB-133 & HM-222.DA52:0**

**DUT: IC-F4400DT; Type: UHF Digital Transceiver; Serial: 33000202**

Communication System: UID 0, CW (0); Frequency: 512 MHz; Duty Cycle: 1:1  
Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 1.037 \text{ S/m}$ ;  $\epsilon_r = 54.503$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(6.72, 6.72, 6.72); Calibrated: 4/19/2021;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/11/2021
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Configuration\_Body\_IC-F4400DT/Body Back, P=5W, d=0mm/Area Scan (51x131x1):**

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
Maximum value of SAR (interpolated) = 12.0 W/kg

**Configuration\_Body\_IC-F4400DT/Body Back, P=5W, d=0mm/Zoom Scan (5x5x7)**

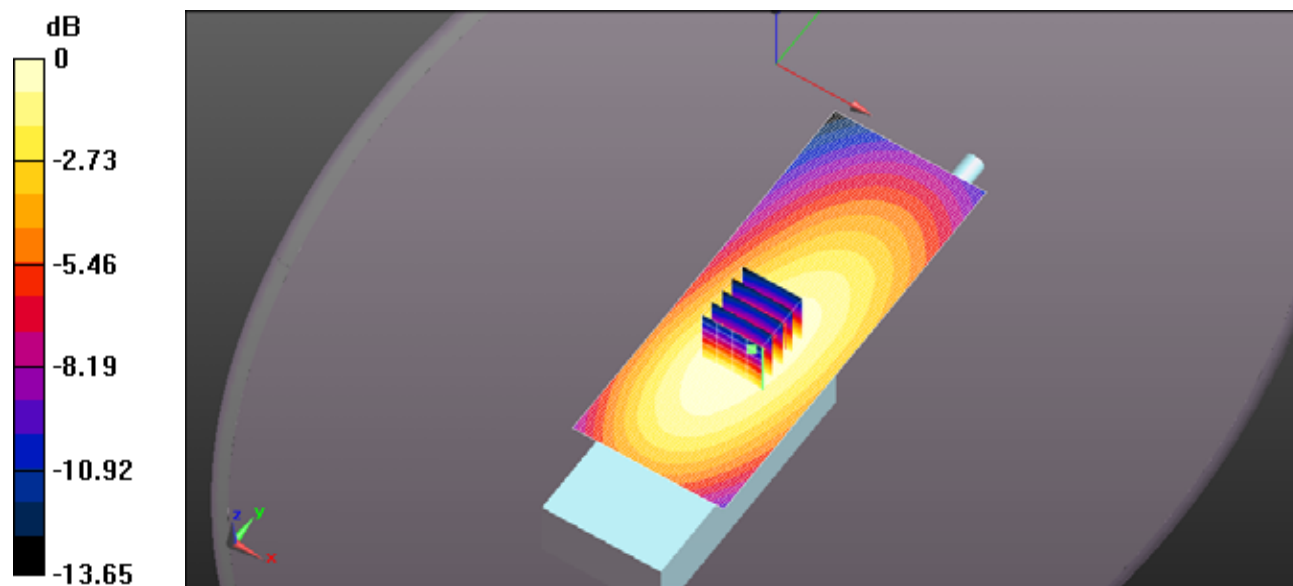
**(5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 104.1 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 15.1 W/kg

**SAR(1 g) = 9.65 W/kg; SAR(10 g) = 6.98 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 12.0 W/kg



0 dB = 12.0 W/kg = 10.78 dBW/kg