



Appendix for the Report

Dosimetric Assessment of the Portable Device Q Digital Q-DT8 (FCC ID: UDDQDBP)

According to the FCC Requirements SAR Distribution Plots

January 25, 2011

IMST GmbH Carl-Friedrich-Gauß-Str. 2 D-47475 Kamp-Lintfort

Customer

TRaC

Unit E, South Orbital Trading Park, Hedon Road, Hull HU9 1NJ, UK

The test results only relate to the items tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.

Table of Contents

| 1 | SAR DISTRIBUTION PLOTS, HEAD MEASUREMENTS | . 3 |
|---|---|-----|
| | | |
| 2 | SAR Z-AXIS SCANS (VALIDATION) | . 5 |
| | | |
| 3 | SAR Z-AXIS SCANS (MEASUREMENTS) | . 5 |

1 SAR Distribution Plots, Head Measurements

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: Q-DT8_yplm_1.da4

DUT: Q Digital; Type: Q-DT8; Serial: Q11060176

Program Name: Dect

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: f = 1924.99 MHz; $\sigma = 1.45 \text{ mho/m}$; $\varepsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.09, 5.09, 5.09); Calibrated: 20.01.2010

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Left/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.001 mW/g

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

Reference Value = 0.498 V/m; Power Drift = -0.183 dB

Peak SAR (extrapolated) = 0.002 W/kg

SAR(1 g) = 0.000367 mW/g; SAR(10 g) = 0.000105 mW/g

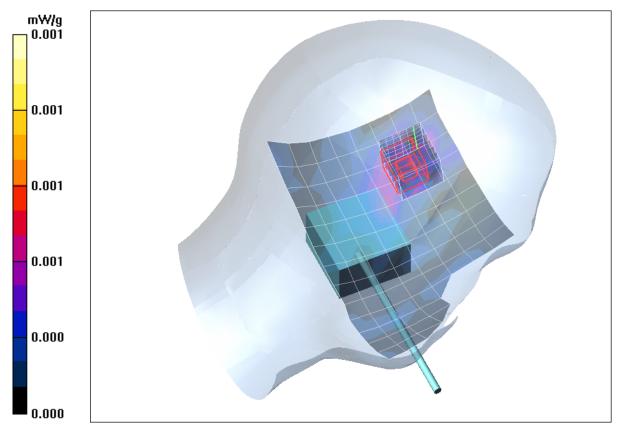


Fig. 1: SAR distribution for DECT US, channel 2, cheek position, left side of head, (January 24, 2011; Ambient Temperature: 21.1°C; Liquid Temperature: 20.7°C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: Q-DT8 yprm 1.da4

DUT: Q Digital; Type: Q-DT8; Serial: Q11060176

Program Name: Dect

Communication System: DECT US; Frequency: 1924.99 MHz; Duty Cycle: 1:24

Medium parameters used: f = 1924.99 MHz; σ = 1.45 mho/m; ϵ_r = 41.7; ρ = 1000 kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R SN1579; ConvF(5.09, 5.09, 5.09); Calibrated: 20.01.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 17.09.2010
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Cheek Right/Area Scan (10x14x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.001 mW/g

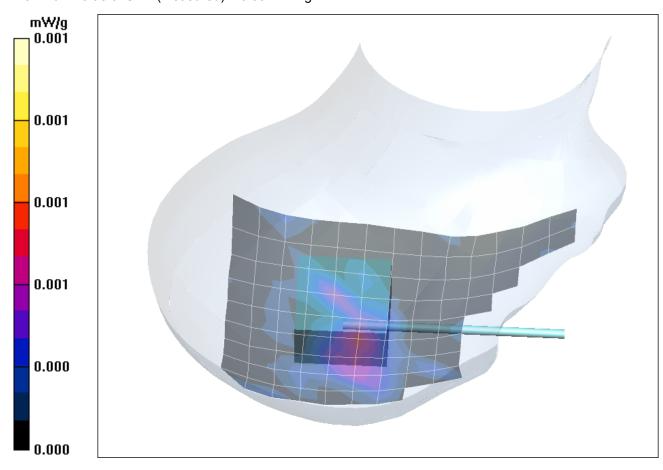


Fig. 2: SAR distribution for DECT US, channel 2, cheek position, right side of head, (January 24, 2011; Ambient Temperature: 21.1°C; Liquid Temperature: 20.7°C).

2 SAR z-axis scans (Validation)

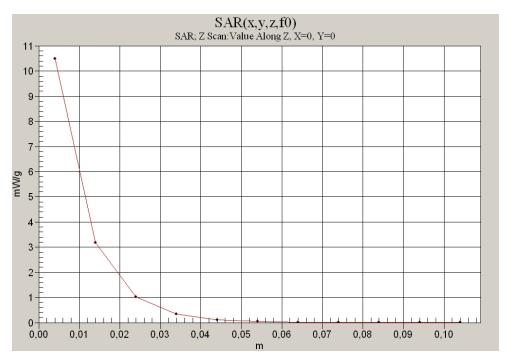


Fig. 3: SAR versus liquid depth, 1900 MHz, head (January 24, 2011; Ambient Temperature: 21.1° C; Liquid Temperature : 20.7° C).

3 SAR z-axis scans (Measurements)

The following picture shows the plot of SAR versus liquid depth for the worst case values.

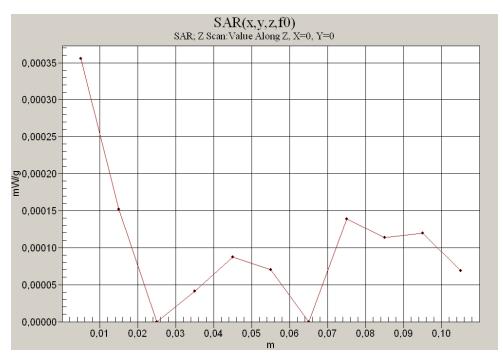


Fig. 4: SAR versus liquid depth, head: DECT US, channel 2, cheek position, left side of head, (January 24, 2011; Ambient Temperature: 21.1° C; Liquid Temperature: 20.7° C).