

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. HEAD SAR MEASUREMENTS

Head SAR Measurement Summary

Antenna	Power (W)	CH	CH. Freq (MHz)	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift (dB)
				BP-284	BP-284	
FA-S82V	4.72	1	150	2.35	1.77	-1.44

FILE NAME: [ICOM-565QR1 HEAD BP-284 FA-S82V 150MHZ.DA52:0](#)

DUT: IC-F7010S; Type: VHF P25 Transceiver; Serial: 13000203

Communication System: UID 0, CW (0); Frequency: 150 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 150$ MHz; $\sigma = 0.77$ S/m; $\epsilon_r = 52.441$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ES3DV3 - SN3250; ConvF(7.68, 7.68, 7.68); 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-F7010S/Head Front, P=5W, d=25mm/Area Scan (51x211x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.83 W/kg

Configuration_Head_IC-F7010S/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

(6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 64.86 V/m; Power Drift = -1.44 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.77 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.64 W/kg

