

APPENDIX 1

SAR Measurement Data

Contents

EXHIBIT 1. HEAD SAR MEASUREMENTS.....	3
<i>Head SAR Measurement Summary.....</i>	<i>3</i>
FILE NAME: ICOM-572Q HEAD BP-294 FA-SC61VC 151MM 167.7MHZ.DA52:0	4
FILE NAME: ICOM-572Q HEAD BP-294 FA-SC61VC 151MM 174MHZ.DA52:0	5
FILE NAME: ICOM-572Q HEAD BP-294 FA-SC61VC 151MM 161.3MHZ.DA52:0	6

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-294	BP-294	
				3150mAh	3150mAh	
FA-SC61VC 155MHz 151mm	4.88	1	174	2.61	1.96	-2.41
	4.90	2	167.7	3.66	2.73	-1.54
	4.89	3	161.3	1.24	0.925	-2.58

FILE NAME: [ICOM-572Q HEAD BP-294 FA-SC61VC 151MM 167.7MHZ.DA52:0](#)

DUT: IC-F52D; Type: VHF Digital Transceiver; Serial: 17000304

Communication System: UID 0, CW (0); Frequency: 167.7 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 168$ MHz; $\sigma = 0.781$ S/m; $\epsilon_r = 50.942$; $\rho = 1000$ 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-F52D/Head Front, P=5W, d=25mm (SAR corrected for target medium)/Area Scan (51x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 4.40 W/kg

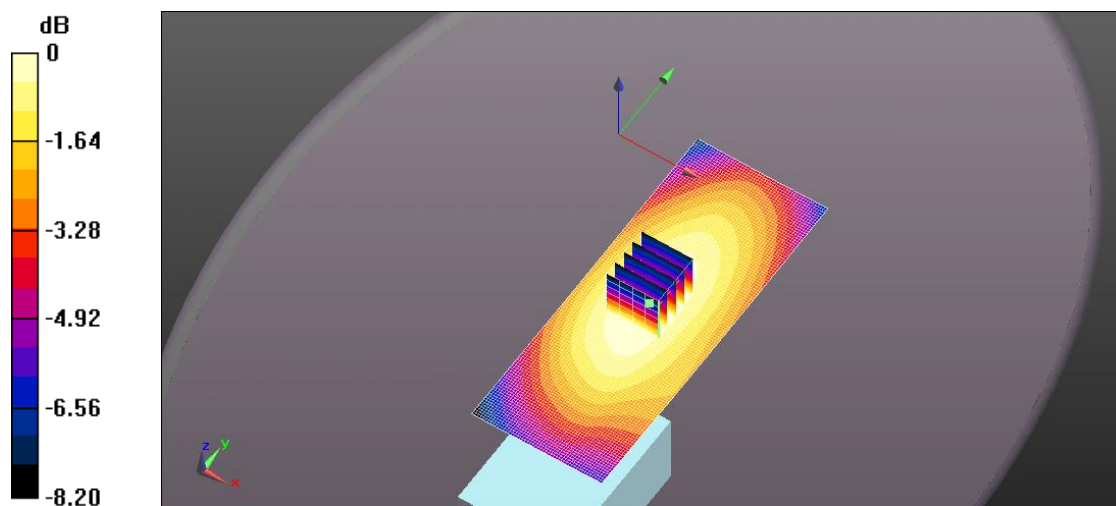
Configuration_Head_IC-F52D/Head Front, P=5W, d=25mm (SAR corrected for target medium)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 81.06 V/m; Power Drift = -1.54 dB

Peak SAR (extrapolated) = 5.39 W/kg

SAR(1 g) = 3.66 W/kg; SAR(10 g) = 2.73 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.11 W/kg



0 dB = 4.40 W/kg = 6.44 dBW/kg

FILE NAME: [ICOM-572Q HEAD BP-294 FA-SC61VC 151MM 174MHZ.DA52:0](#)

DUT: IC-F52D; Type: VHF Digital Transceiver; Serial: 17000304

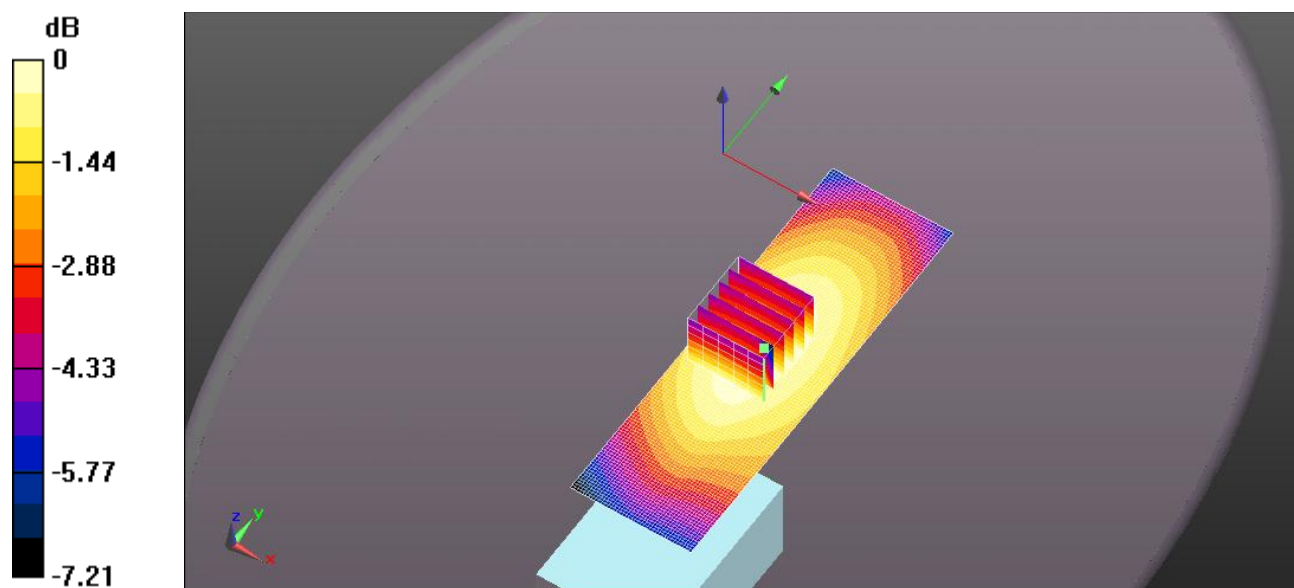
Communication System: UID 0, CW (0); Frequency: 174 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 174$ MHz; $\sigma = 0.788$ S/m; $\epsilon_r = 50.441$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

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
- DASYS 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-F52D/Head Front, P=5W, d=25mm (SAR corrected for target medium)/Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.42 W/kg

Configuration_Head_IC-F52D/Head Front, P=5W, d=25mm (SAR corrected for target medium)/Zoom Scan (5x5x7) (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 73.86 V/m; Power Drift = -2.41 dB
Peak SAR (extrapolated) = 3.91 W/kg
SAR(1 g) = 2.61 W/kg; SAR(10 g) = 1.96 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 2.90 W/kg



0 dB = 3.42 W/kg = 5.33 dBW/kg

FILE NAME: [ICOM-572Q HEAD BP-294 FA-SC61VC 151MM 161.3MHZ.DA52:0](#)

DUT: IC-F52D; Type: VHF Digital Transceiver; Serial: 17000304

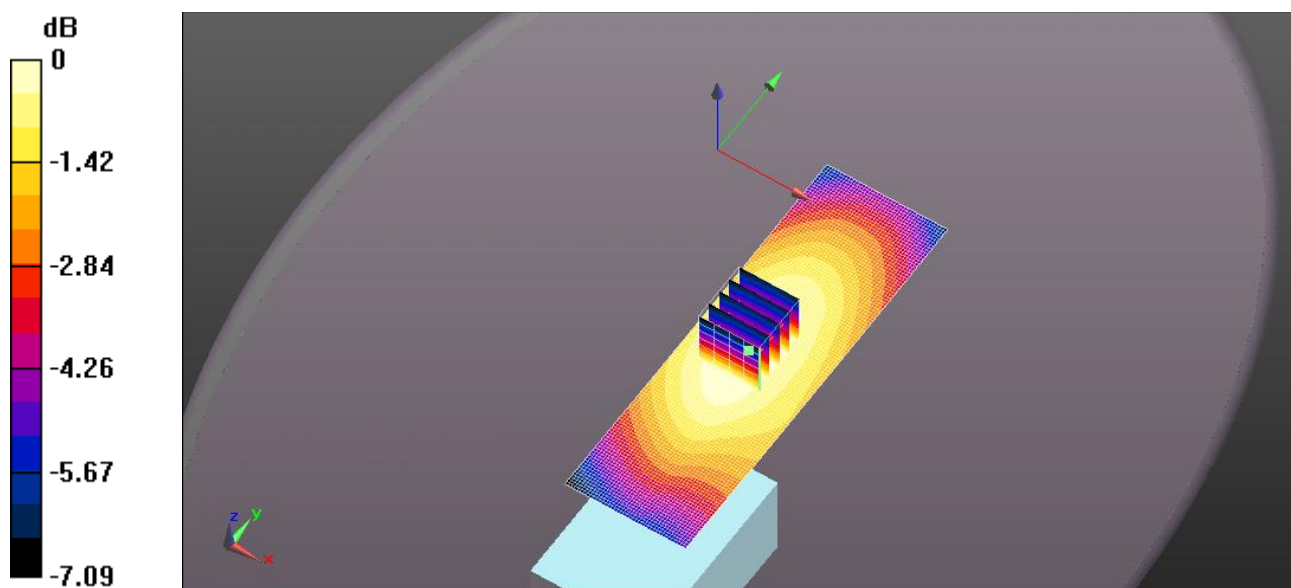
Communication System: UID 0, CW (0); Frequency: 161.3 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 162$ MHz; $\sigma = 0.778$ S/m; $\epsilon_r = 51.055$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Head_IC-F52D/Head Front, P=5W, d=25mm (SAR corrected for target medium)/Area Scan (41x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.54 W/kg

Configuration_Head_IC-F52D/Head Front, P=5W, d=25mm (SAR corrected for target medium)/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 53.58 V/m; Power Drift = -2.58 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.925 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg