

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-282N	BP-282N	
FA-SC59V	4.60	88	157.425	1570mAh 1.44	1570mAh 1.07	-1.21

FILE NAME: [ICOM-5450 HEAD FA-SC59V 157.425 MHZ.DA52:0](#)

DUT: IC-M25; Type: VHF Marine Transceiver; Serial: 00000210

Communication System: UID 0, CW (0); Frequency: 157.425 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 158$ MHz; $\sigma = 0.8$ S/m; $\epsilon_r = 52.615$; $\rho = 1000$ 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: 8/13/2020
- 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-M25/Head Front, P=5W, d=25mm/Area Scan (51x181x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.68 W/kg

Configuration_Head_IC-M25/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

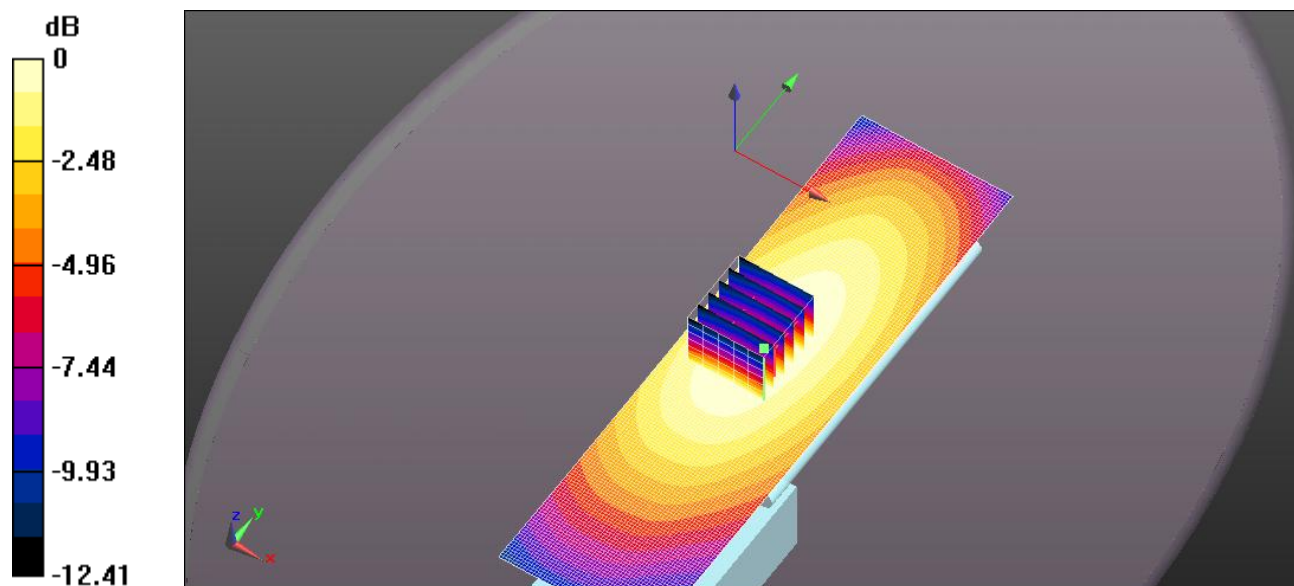
(6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 48.32 V/m; Power Drift = -1.22 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 1.07 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.68 W/kg = 2.26 dBW/kg