

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. HEAD SAR MEASUREMENTS

Head SAR Measurement Summary

Antenna	Power (dBm)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)
				BP-296	BP-296
			(MHz)	2350mAh	2350mAh
FA-SC59V	37.33	01A	156.05	0.877	0.677
	37.27	88	157.425	**	**
	37.36	P4	161.425	1.38	1.06

FILE NAME: ICOM-508Q HEAD BP-296 161.425MHZ.DA52:0

DUT: IC-M37; Type: VHF Transciever ; Serial: 00000051

Communication System: UID 0, CW (0); Frequency: 161.425 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 162 \text{ MHz}$; $\sigma = 0.771 \text{ S/m}$; $\epsilon_r = 50.648$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.71, 10.71, 10.71); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- 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-M37/Head Front, P=6W, d=25mm/Area Scan (61x151x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.86 W/kg

Configuration_Head_IC-M37/Head Front, P=6W, d=25mm/Zoom Scan (5x5x7)

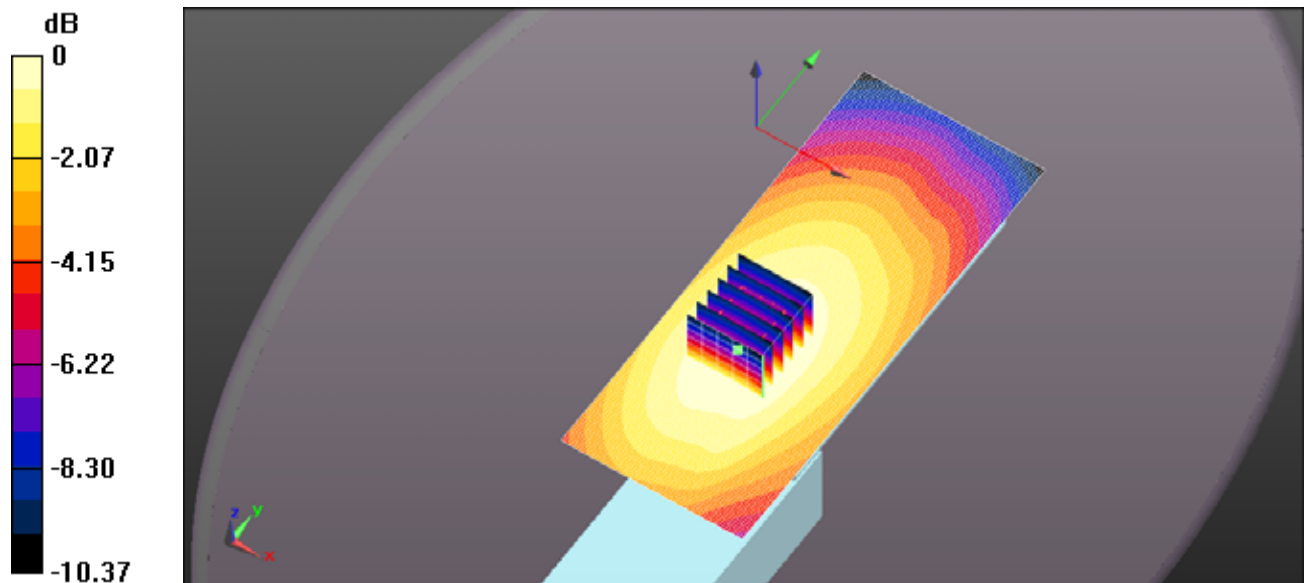
(6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.57 V/m ; Power Drift = -1.58 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.38 W/kg ; SAR(10 g) = 1.06 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.75 W/kg



FILE NAME: ICOM-508Q HEAD BP-296 156.050MHZ.DA52:0

DUT: IC-M37; Type: VHF Transciever ; Serial: 00000051

Communication System: UID 0, CW (0); Frequency: 156.05 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 156.05$ MHz; $\sigma = 0.767$ S/m; $\epsilon_r = 51.292$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.71, 10.71, 10.71); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- 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-M37/Head Front, P=6W, d=25mm/Area Scan (61x151x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.14 W/kg

Configuration_Head_IC-M37/Head Front, P=6W, d=25mm/Zoom Scan (5x5x7)

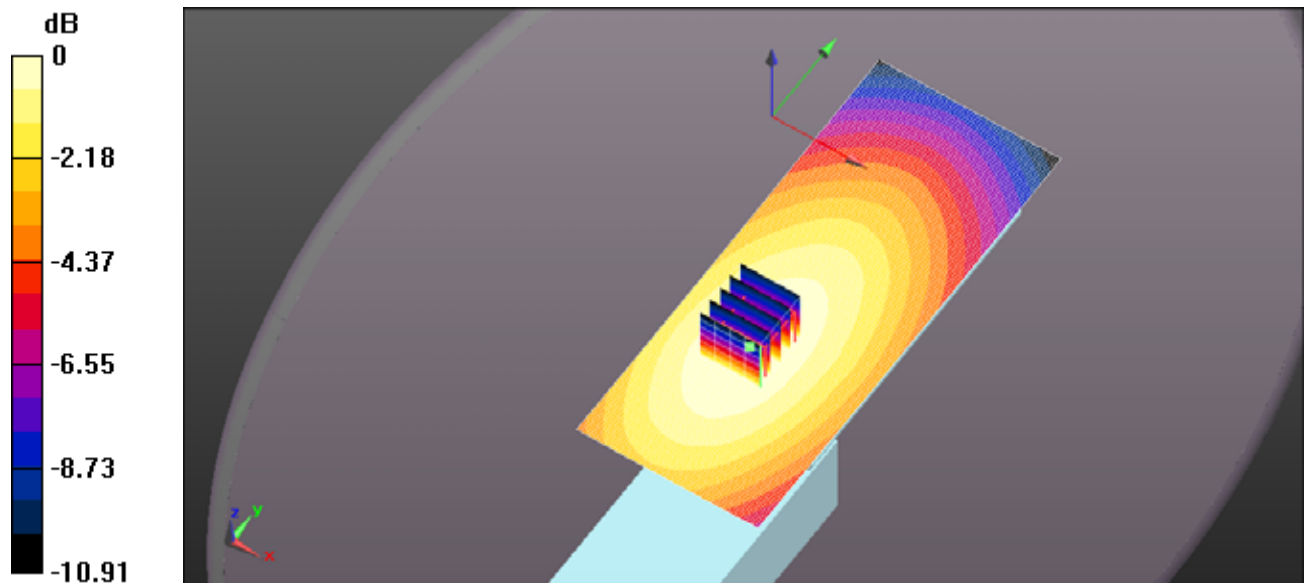
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 39.02 V/m; Power Drift = -0.69 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.877 W/kg; SAR(10 g) = 0.677 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.14 W/kg = 0.58 dBW/kg

EXHIBIT 2. BODY SAR MEASUREMENTS

Body SAR Measurements Summary

Antenna	Power (dBm)	CH	CH. Freq	Body SAR1g (W/Kg)	Body SAR10g (W/Kg)
				MB-133	MB-133
			(MHz)	BP-296	BP-296
FA-SC59V	37.33	01A	156.05	1.02	0.789
	37.27	88	157.425	**	**
	37.36	P4	161.425	0.608	0.467

FILE NAME: ICOM-508Q BODY BP-296 156.025MHZ.DA52:0

DUT: IC-M37; Type: Marine Transceiver ; Serial: 00000051

Communication System: UID 0, CW; Frequency: 156.05 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 156.05$ MHz; $\sigma = 0.774$ S/m; $\epsilon_r = 60.942$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.55, 10.55, 10.55); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-M37/Front to Face, P=6W, d=0mm/Area Scan (61x181x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.39 W/kg

Configuration_Body_IC-M37/Front to Face, P=6W, d=0mm/Zoom Scan (5x5x7)

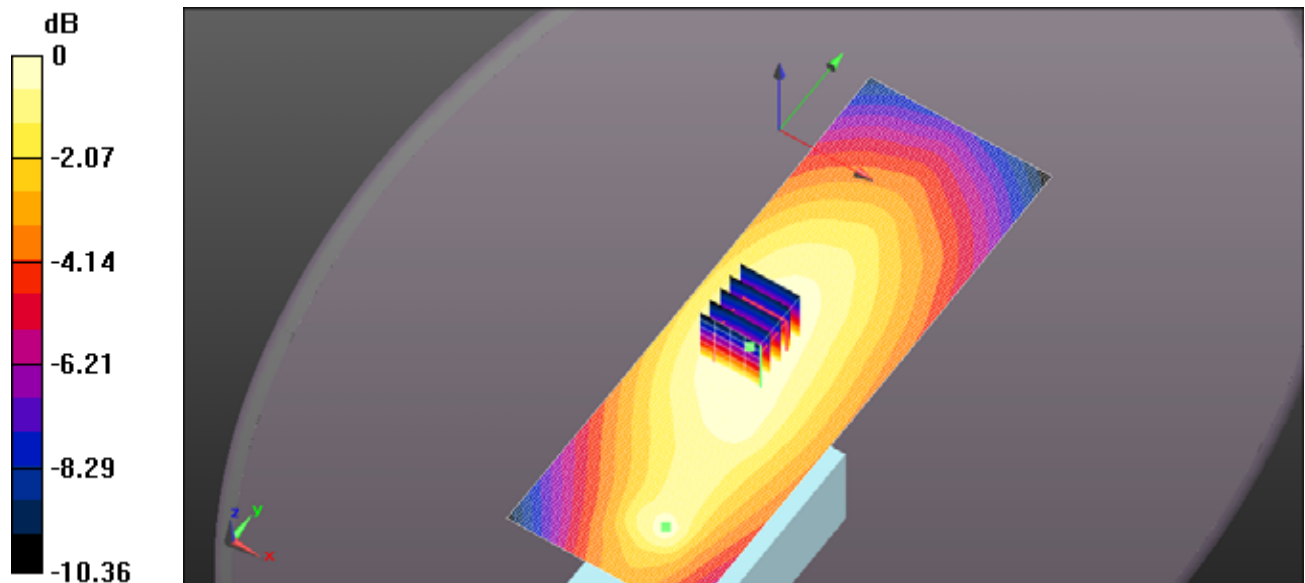
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 43.96 V/m; Power Drift = -1.47 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.789 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.39 W/kg = 1.42 dBW/kg

FILE NAME: ICOM-508Q BODY BP-296 161.425MHZ.DA52:0

DUT: IC-M37; Type: Marine Transceiver ; Serial: 00000051

Communication System: UID 0, CW; Frequency: 161.425 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 162 \text{ MHz}$; $\sigma = 0.776 \text{ S/m}$; $\epsilon_r = 60.54$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.55, 10.55, 10.55); Calibrated: 8/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/14/2018
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

Configuration_Body_IC-M37/Front to Face, P=6W, d=0mm/Area Scan (61x181x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.789 W/kg

Configuration_Body_IC-M37/Front to Face, P=6W, 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 = 29.90 V/m ; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = 0.608 W/kg ; SAR(10 g) = 0.467 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.772 W/kg

