

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. PRESCAN MEASUREMENT SUMMARY

Belt Clip	Antenna	Power (dBm)	CH	CH. Freq	BODY SAR1g (W/Kg)
				(MHz)	BP-232H
					2250mAh
MB-94	FA-B02AR 118-136.975 MHz	31.7	3	127.5	0.635
MB-96F	FA-B02AR 118-136.975 MHz	31.7	3	127.5	0.576

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-447Q MB-94 BP-232H FA-B02AR 127.5MHz.da52:0](#)

DUT: IC-A14; Type: VHF Transceiver; Serial: 2503304

Communication System: UID 0, CW (0); Frequency: 127.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 128 \text{ MHz}$; $\sigma = 0.761 \text{ S/m}$; $\epsilon_r = 63.811$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.93, 10.93, 10.93); Calibrated: 3/20/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/22/2016
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-A14/Body Back, P=1.5W, d=0mm/Area Scan (51x201x1):

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

Maximum value of SAR (interpolated) = 0.695 W/kg

Configuration_Body_IC-A14/Body Back, P=1.5W, d=0mm/Zoom Scan (5x5x7)

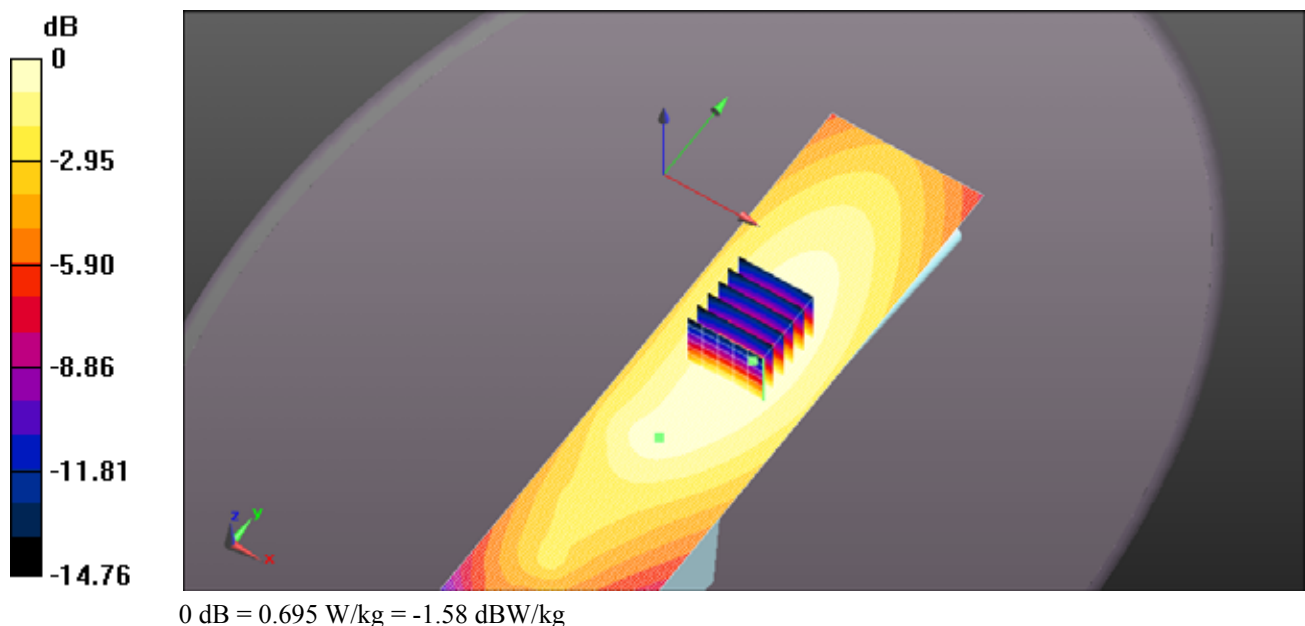
(6x6x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.17 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.635 W/kg ; SAR(10 g) = 0.493 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.697 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-447Q MB-96F BP-232H FA-B02AR 127.5MHz.da52:0](#)

DUT: IC-A14; Type: VHF Transceiver; Serial: 2503304

Communication System: UID 0, CW (0); Frequency: 127.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 128 \text{ MHz}$; $\sigma = 0.761 \text{ S/m}$; $\epsilon_r = 63.811$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.93, 10.93, 10.93); Calibrated: 3/20/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/22/2016
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-A14/Body Back, P=1.5W, d=0mm/Area Scan (51x201x1):

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

Maximum value of SAR (interpolated) = 0.774 W/kg

Configuration_Body_IC-A14/Body Back, P=1.5W, d=0mm/Zoom Scan (5x5x7)

(7x8x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.69 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.744 W/kg

SAR(1 g) = 0.576 W/kg ; SAR(10 g) = 0.451 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.631 W/kg

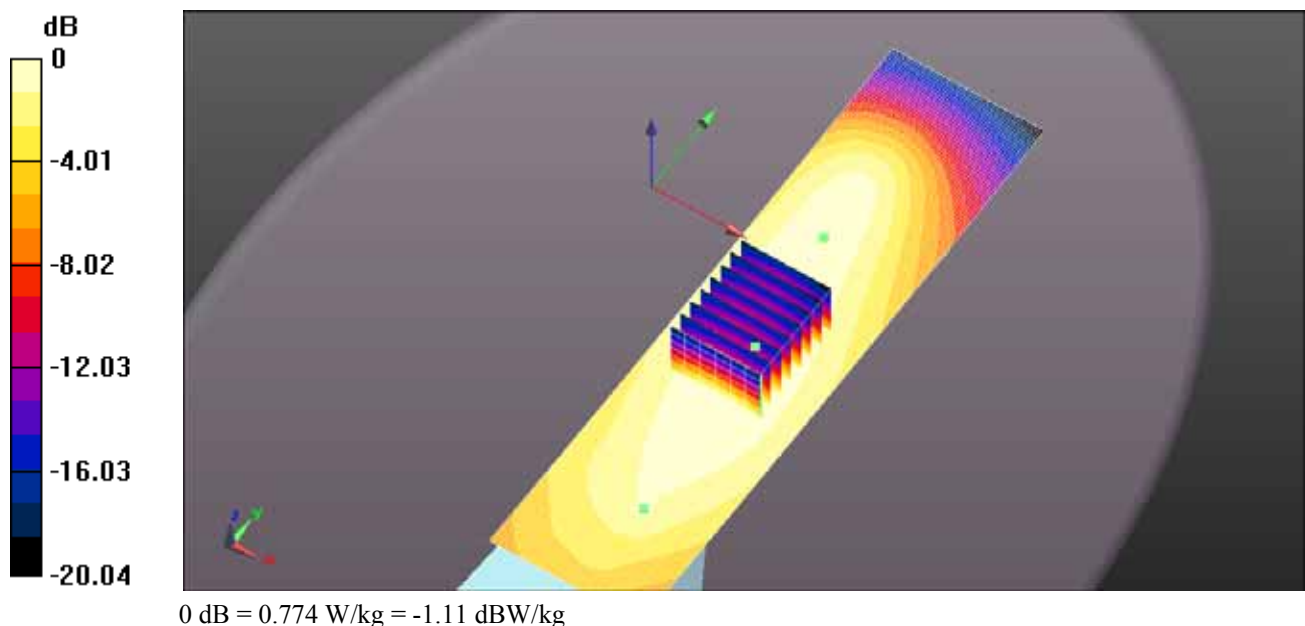


EXHIBIT 2. BODY SAR MEASUREMENTS

Belt Clip	Antenna	Power (dBm)	CH	CH. Freq	BODY SAR1g (W/Kg)
				(MHz)	BP-232H 2250mAh
MB-94	FA-B02AR 118-136.975 MHz	31.7	3	127.5	0.635

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-447Q MB-94 BP-232H FA-B02AR 127.5MHz.da52:0](#)

DUT: IC-A14; Type: VHF Transceiver; Serial: 2503304

Communication System: UID 0, CW (0); Frequency: 127.5 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 128 \text{ MHz}$; $\sigma = 0.761 \text{ S/m}$; $\epsilon_r = 63.811$; $\rho = 1000 \text{ kg/m}^3$; Phantom section:
Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.93, 10.93, 10.93); Calibrated: 3/20/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn874; Calibrated: 8/22/2016
- Phantom: ELI 4.0; Type: QD OVA 001 BB; Serial: 1057
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-A14/Body Back, P=1.5W, d=0mm/Area Scan (51x201x1):

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

Maximum value of SAR (interpolated) = 0.695 W/kg

Configuration_Body_IC-A14/Body Back, P=1.5W, d=0mm/Zoom Scan (5x5x7)

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

Reference Value = 32.17 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.635 W/kg ; SAR(10 g) = 0.493 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.697 W/kg

