

APPENDIX 1

SAR Measurement Data

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EXHIBIT 1. HEAD SAR MEASUREMENTS

Antenna	Power (W)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)	Power Drift (dB)
			(MHz)	BP-279	BP-279	
				1485mAh	1485mAh	
FA-SC28V	1.84	5	151.82	0.402	0.305	-0.05
	1.79	3	154.57	0.479	0.364	-0.23
	1.83	9	154.6	0.509	0.386	-0.26

FILE NAME: [ICOM-581Q HEAD FA-SC28V 151.82 MHZ.DA52:0](#)

DUT: IC-V10MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 151.82 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 152$ MHz; $\sigma = 0.772$ S/m; $\epsilon_r = 54.636$; $\rho = 1000$ kg/m³; Phantom section:
Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- 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-V10MR/Head Front, P=2W, d=25mm/Area Scan (61x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.448 W/kg

Configuration_Head_IC-V10MR/Head Front, P=2W, d=25mm/Zoom Scan (7x7x7)

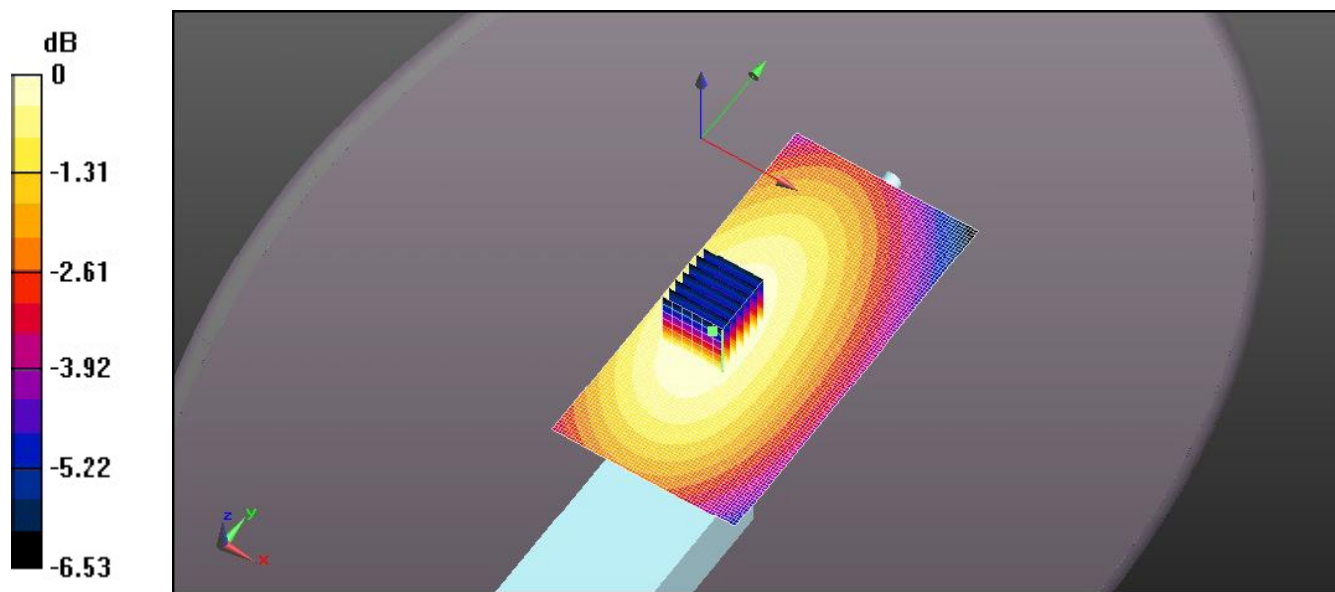
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.84 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.305 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.447 W/kg



0 dB = 0.447 W/kg = -3.49 dBW/kg

FILE NAME: [ICOM-581Q HEAD FA-SC28V 154.57 MHZ.DA52:0](#)

DUT: IC-V10MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 154.57 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 154.57$ MHz; $\sigma = 0.775$ S/m; $\epsilon_r = 54.927$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- 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-V10MR/Head Front, P=2W, d=25mm/Area Scan (61x121x1):

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

Maximum value of SAR (interpolated) = 0.532 W/kg

Configuration_Head_IC-V10MR/Head Front, P=2W, d=25mm/Zoom Scan (7x7x7)

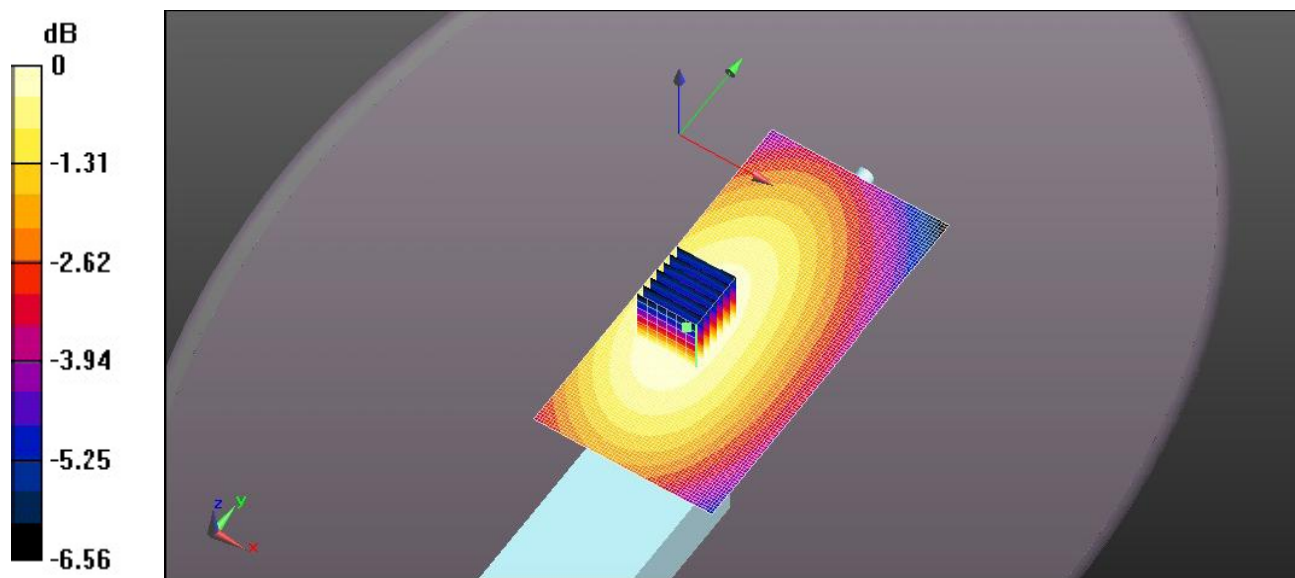
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.55 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 0.694 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.364 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.533 W/kg



0 dB = 0.533 W/kg = -2.73 dBW/kg

FILE NAME: [ICOM-581Q HEAD FA-SC28V 154.60 MHZ.DA52:0](#)

DUT: IC-V10MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 154.60 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 154.6$ MHz; $\sigma = 0.775$ S/m; $\epsilon_r = 54.931$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.51, 7.51, 7.51); Calibrated: 3/18/2022;
- 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-V10MR/Head Front, P=2W, d=25mm/Area Scan (61x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.568 W/kg

Configuration_Head_IC-V10MR/Head Front, P=2W, d=25mm/Zoom Scan (7x7x7)

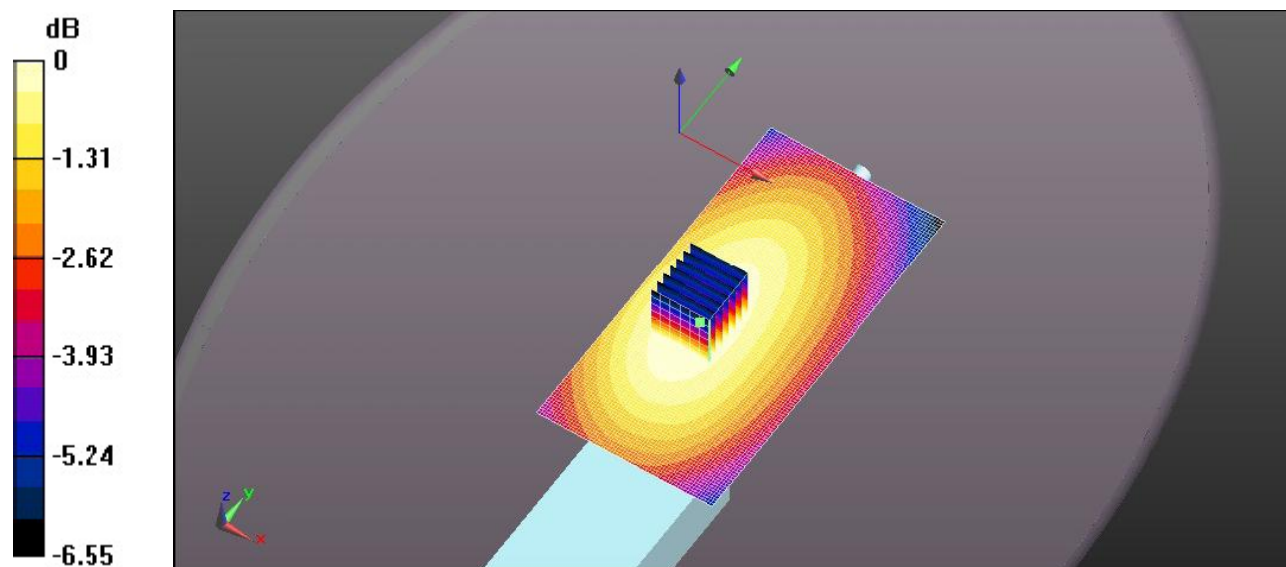
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.56 V/m; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 0.736 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.386 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.566 W/kg



0 dB = 0.566 W/kg = -2.47 dBW/kg

EXHIBIT 2. **BODY SAR MEASUREMENTS**

Antenna	Power (W)	CH	CH. Freq	Body SAR1g (W/Kg)	Body SAR10g (W/Kg)	Power Drift (dB)
				BP-279	BP-279	
			(MHz)	1485mAh	1485mAh	
FA-SC28V	1.84	5	151.82	0.868	0.613	-0.16
	1.79	3	154.57	0.937	0.685	-0.27
	1.83	9	154.6	0.946	0.69	-0.16

FILE NAME: [ICOM-581Q BODY FA-SC28V 151.82 MHZ.DA52:0](#)

DUT: IC-V10MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 151.82 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 152$ MHz; $\sigma = 0.798$ S/m; $\epsilon_r = 61.304$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- 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_Body_IC-V10MR/Front to Face, P=1W, d=0mm/Area Scan (51x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.01 W/kg

Configuration_Body_IC-V10MR/Front to Face, P=1W, d=0mm/Zoom Scan (5x5x7)

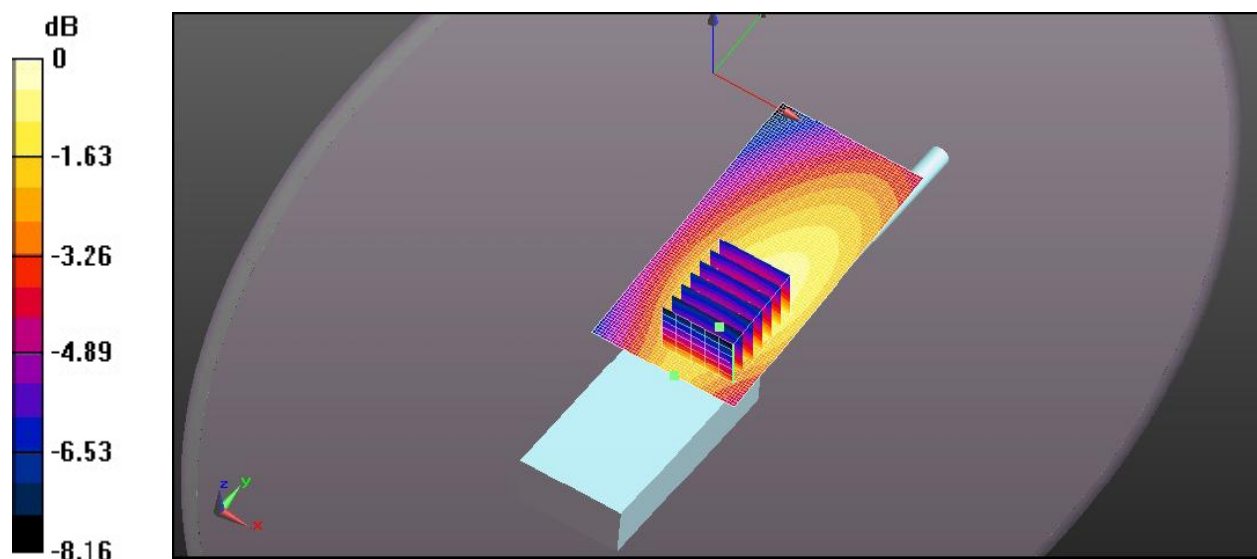
(6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 34.76 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.613 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.988 W/kg



0 dB = 1.01 W/kg = 0.05 dBW/kg

FILE NAME: [ICOM-581Q BODY FA-SC28V 154.57 MHZ.DA52:0](#)

DUT: IC-V10MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 154.57 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 154.57$ MHz; $\sigma = 0.8$ S/m; $\epsilon_r = 61.11$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- 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_Body_IC-V10MR/Front to Face, P=1W, d=0mm/Area Scan (51x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.10 W/kg

Configuration_Body_IC-V10MR/Front to Face, P=1W, d=0mm/Zoom Scan (5x5x7)

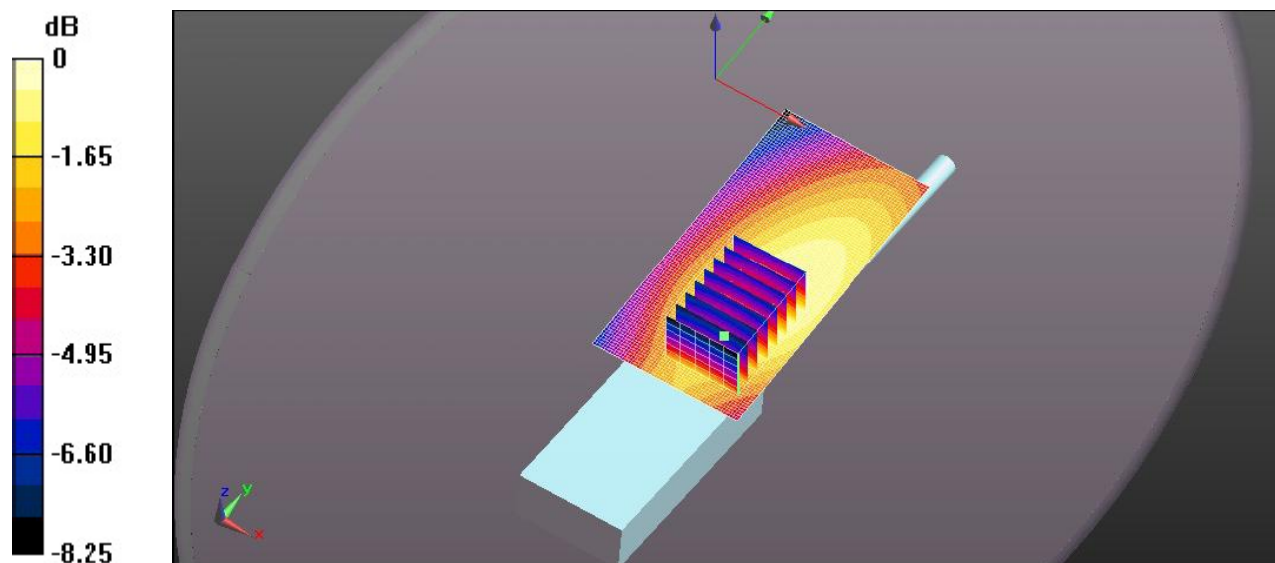
(6x8x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 36.59 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.685 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

FILE NAME: [ICOM-581Q BODY FA-SC28V 154.60 MHZ.DA52:0](#)

DUT: IC-V10MR; Type: VHF Transceiver; Serial: 00000205

Communication System: UID 0, CW (0); Frequency: 154.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 154.6$ MHz; $\sigma = 0.8$ S/m; $\epsilon_r = 61.113$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section ; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ES3DV3 - SN3208; ConvF(7.36, 7.36, 7.36); Calibrated: 3/18/2022;
- 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_Body_IC-V10MR/Front to Face, P=1W, d=0mm/Area Scan (51x101x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.09 W/kg

Configuration_Body_IC-V10MR/Front to Face, P=1W, d=0mm/Zoom Scan (5x5x7)

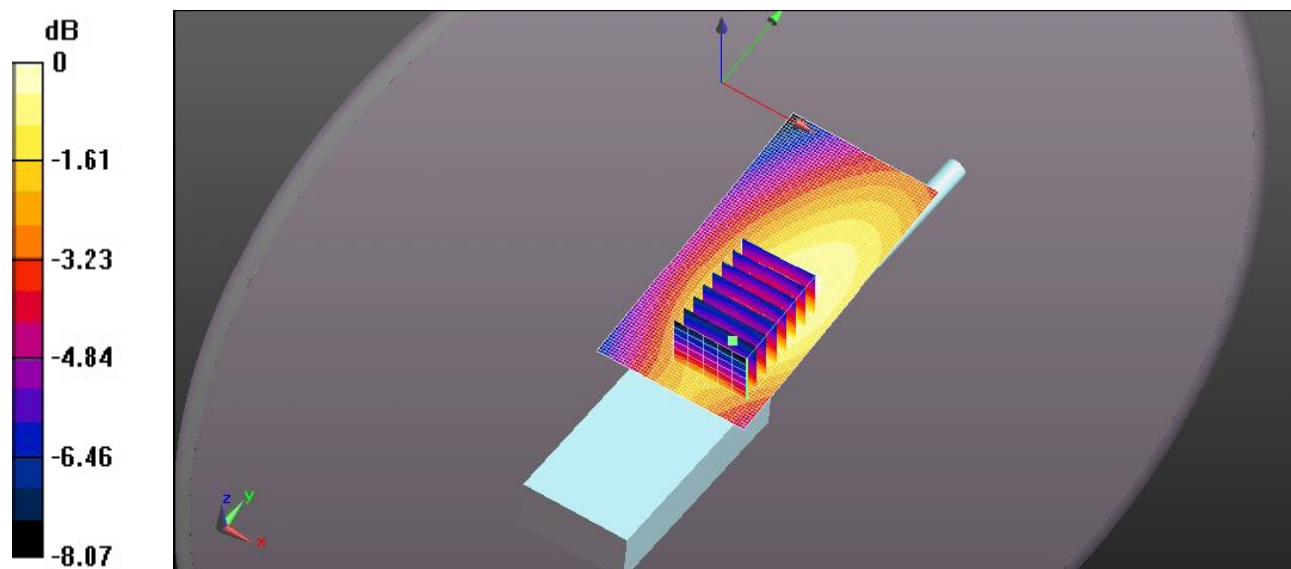
(6x8x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 36.47 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.690 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg