

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)	BODY SAR10g (W/Kg)
					BP-290	BP-290
				(MHz)	1950mAh	1950mAh
MBB-3	FA-SC57U	30.67	12	450	5.59	4.1
MB-136		30.67	12	450	3.03	2.29

W/ MBB-3

Microphone	Antenna	Power (dBm)	CH	CH. Freq	BODY SAR1g (W/Kg)	BODY SAR10g (W/Kg)
					BP-290	BP-290
				(MHz)	1950mAh	1950mAh
HM-233GP	FA-SC57U	30.67	12	450	5.89	4.32
SP-29 (AD-135)		30.67	12	450	5.29	3.91

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 450MHz MBB-3.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 57.353$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 6.98 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

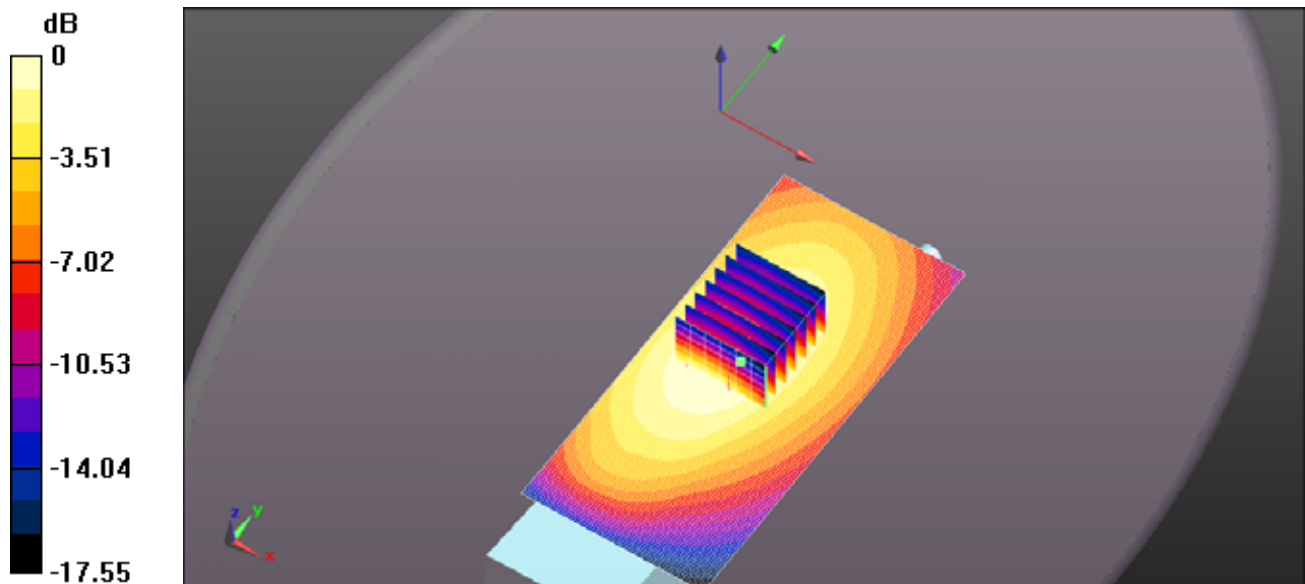
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 80.07 V/m ; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 7.07 W/kg

SAR(1 g) = 5.59 W/kg ; SAR(10 g) = 4.1 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.94 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 450MHz MB-136.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 57.353$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 3.84 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

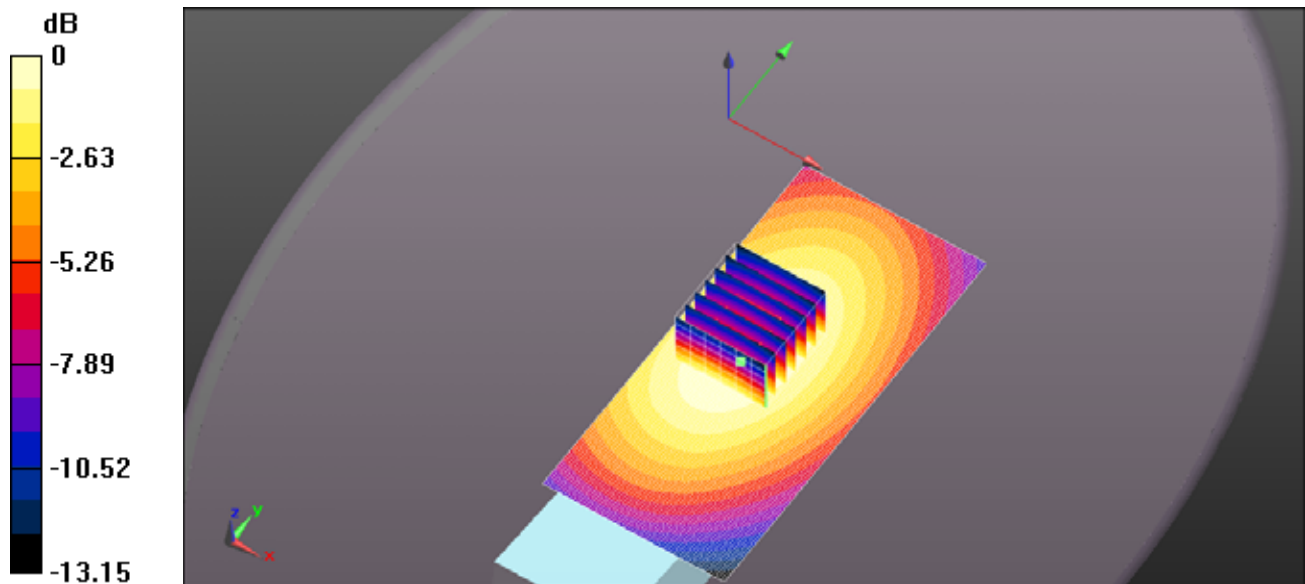
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 61.98 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 3.03 W/kg ; SAR(10 g) = 2.29 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.21 W/kg



0 dB = 3.84 W/kg = 5.84 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 450MHz HM-233GP.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 57.353$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 7.54 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

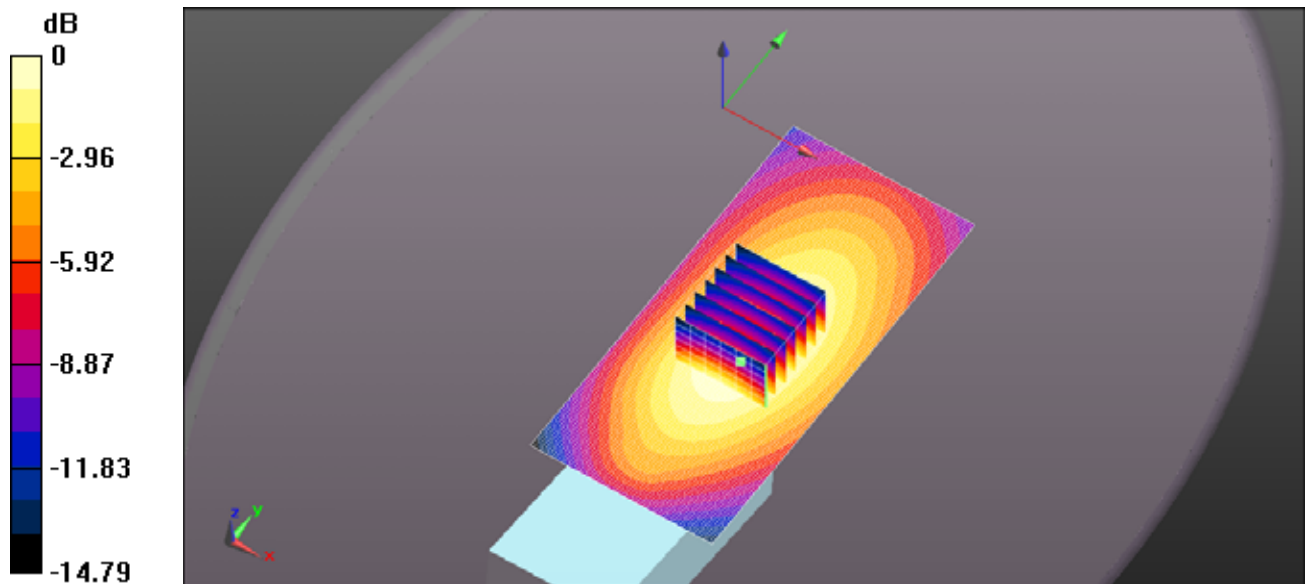
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 87.72 V/m ; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.44 W/kg

SAR(1 g) = 5.89 W/kg ; SAR(10 g) = 4.32 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.29 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 450MHz SP-29.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 57.353$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 6.80 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 77.94 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 6.63 W/kg

SAR(1 g) = 5.29 W/kg ; SAR(10 g) = 3.91 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.62 W/kg

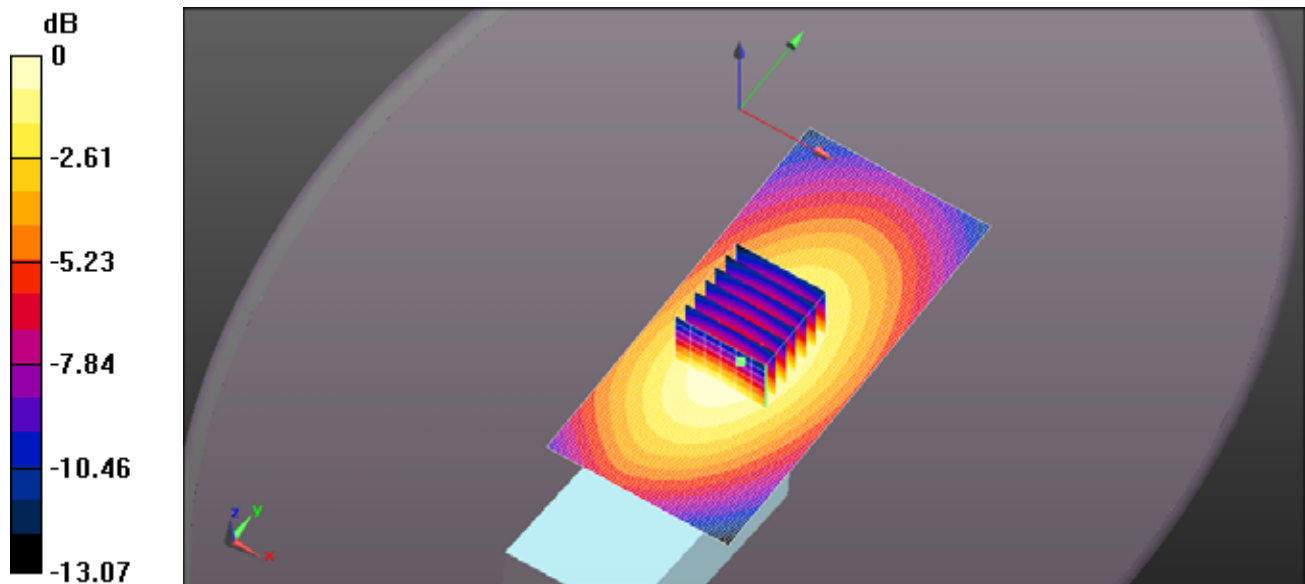


EXHIBIT 2. HEAD SAR MEASUREMENTS

Antenna	Power (dBm)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)
				BP-290	BP-290
			(MHz)	1950mAh	1950mAh
FA-SC25U 400-430 MHz	29.70	1	400	2.97	2.22
	30.16	4	415	4.8	3.58
	30.37	7	430	6.62	4.91
FA-SC57U 440-470 MHz	30.47	9	440	2.89	2.14
	30.62	11	455	4.26	3.17
	30.74	13	470	4.05	2.99
FA-SC26US 400-450 MHz	29.70	1	400	0.388	0.286
	30.11	3	412.5	0.572	0.423
	30.28	6	425	0.852	0.629
	30.67	8	437.5	0.971	0.569
	30.67	10	450	3.19	2.34
FA-S73US 450-470 MHz	30.67	10	450	2.5	1.86
	30.49	12	460	0.578	0.427
	30.74	13	470	0.347	0.256
FA-SC01U 350-400 MHz	29.70	1	400		

Cut Antenna	Power (dBm)	CH	CH. Freq	HEAD SAR1g (W/Kg)	HEAD SAR10g (W/Kg)
				BP-290	BP-290
			(MHz)	1950mAh	1950mAh
FA-S61UC 400MHz 165mm	29.70	1	400	5.22	3.9
	30.19	5	420		
	30.47	9	440	8.42	6.32
	30.49	12	460		
	30.74	13	470	4.58	3.44
FA-S61UC 420MHz 156mm	29.70	1	400		
	30.19	5	420	4.92	3.7
	30.47	9	440	6.86	5.15
	30.49	12	460	5.99	4.5
	30.74	13	470		
FA-S61UC 440MHz 148mm	29.70	1	400	1.98	1.49
	30.19	5	420		
	30.47	9	440	5.04	3.79
	30.49	12	460		
	30.74	13	470	5.94	4.44
FA-S61UC 460MHz 142mm	29.70	1	400		
	30.19	5	420	2.73	2.05
	30.47	9	440	3.81	2.86
	30.49	12	460	5.43	4.04
	30.74	13	470		

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC25U 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400 \text{ MHz}$; $\sigma = 0.789 \text{ S/m}$; $\epsilon_r = 47.421$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 2.98 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

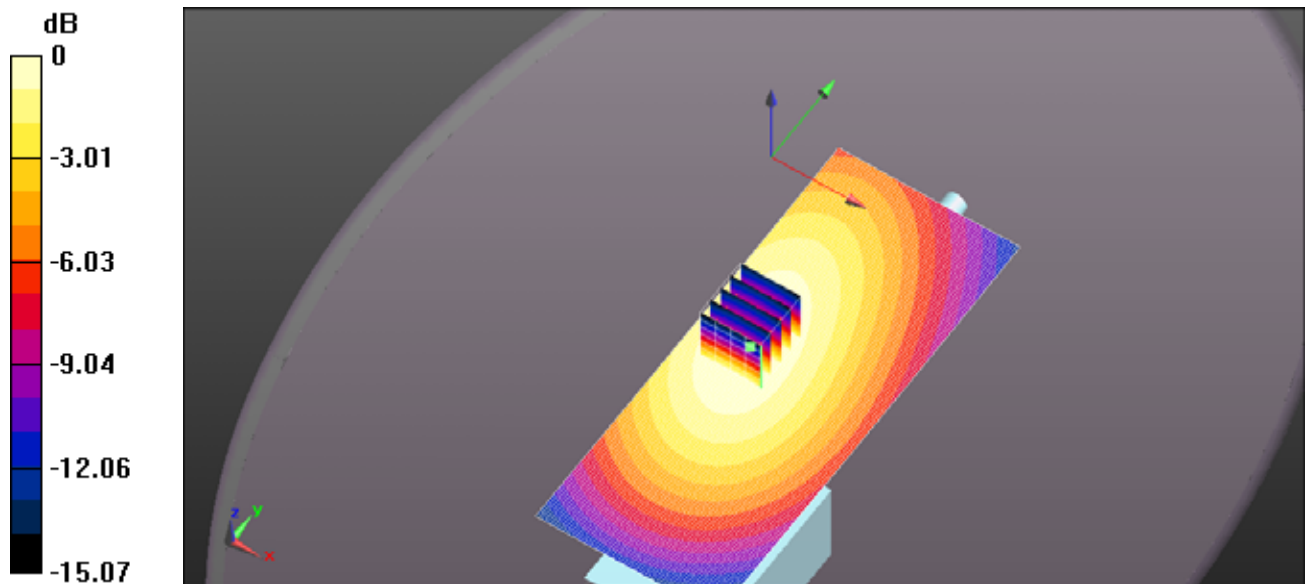
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.31 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.48 W/kg

SAR(1 g) = 2.97 W/kg ; SAR(10 g) = 2.22 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg = 4.74 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC25U 410MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 415 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 415 \text{ MHz}$; $\sigma = 0.805 \text{ S/m}$; $\epsilon_r = 47.072$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 5.27 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

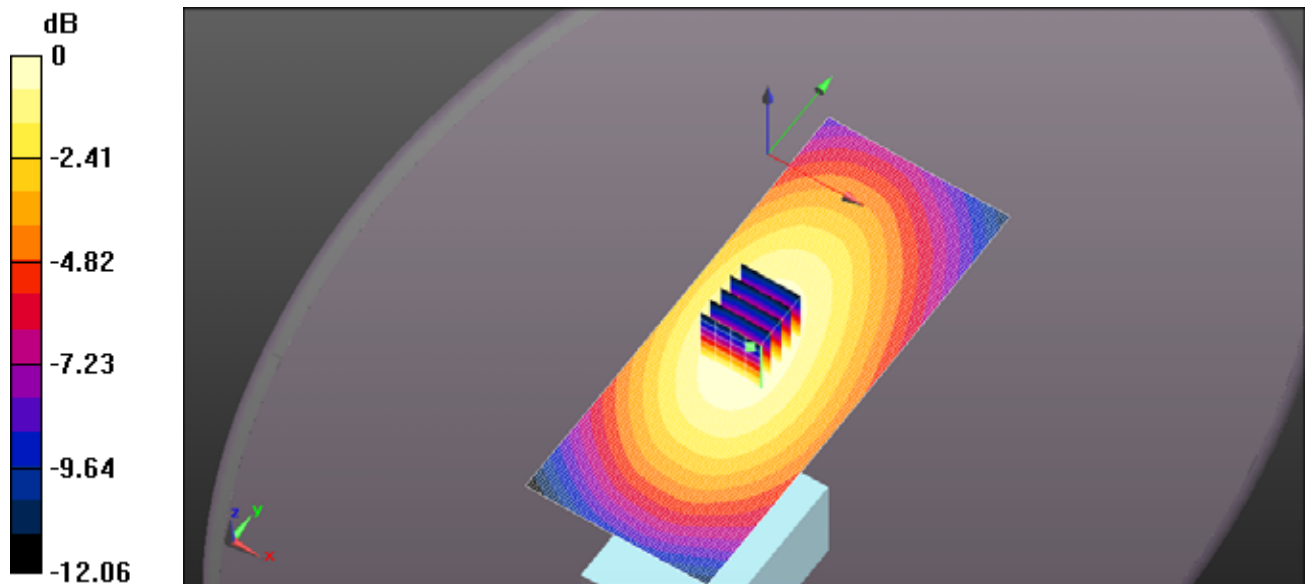
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.87 V/m ; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 5.71 W/kg

SAR(1 g) = 4.8 W/kg ; SAR(10 g) = 3.58 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.90 W/kg



0 dB = 5.27 W/kg = 7.21 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC25U 430MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 430 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 430 \text{ MHz}$; $\sigma = 0.825 \text{ S/m}$; $\epsilon_r = 46.311$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 6.91 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

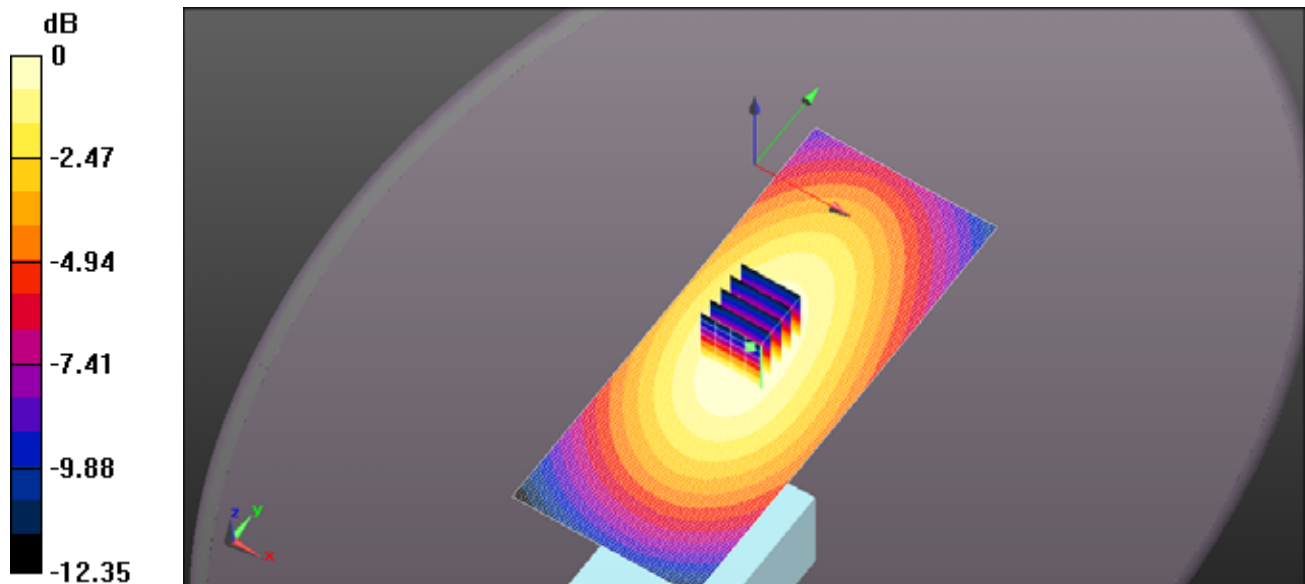
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.46 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 8.10 W/kg

SAR(1 g) = 6.62 W/kg ; SAR(10 g) = 4.91 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.94 W/kg



0 dB = 6.91 W/kg = 8.39 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.84 \text{ S/m}$; $\epsilon_r = 45.733$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 3.10 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

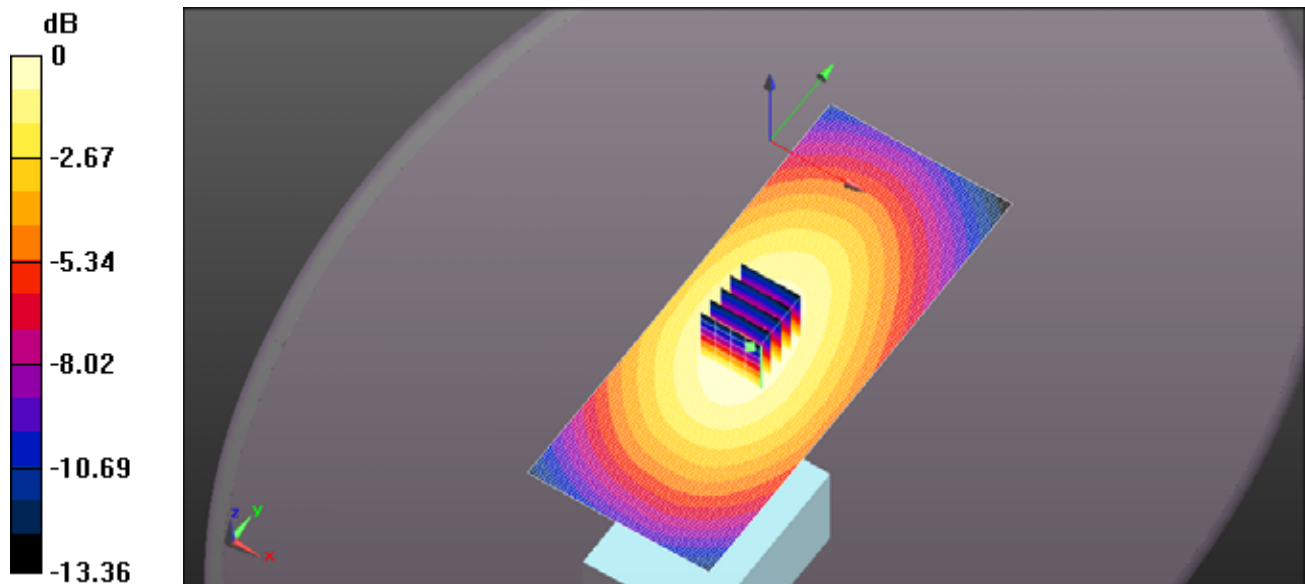
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.87 V/m ; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 2.89 W/kg ; SAR(10 g) = 2.14 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.09 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 455MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 455 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 455 \text{ MHz}$; $\sigma = 0.862 \text{ S/m}$; $\epsilon_r = 44.894$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 4.70 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

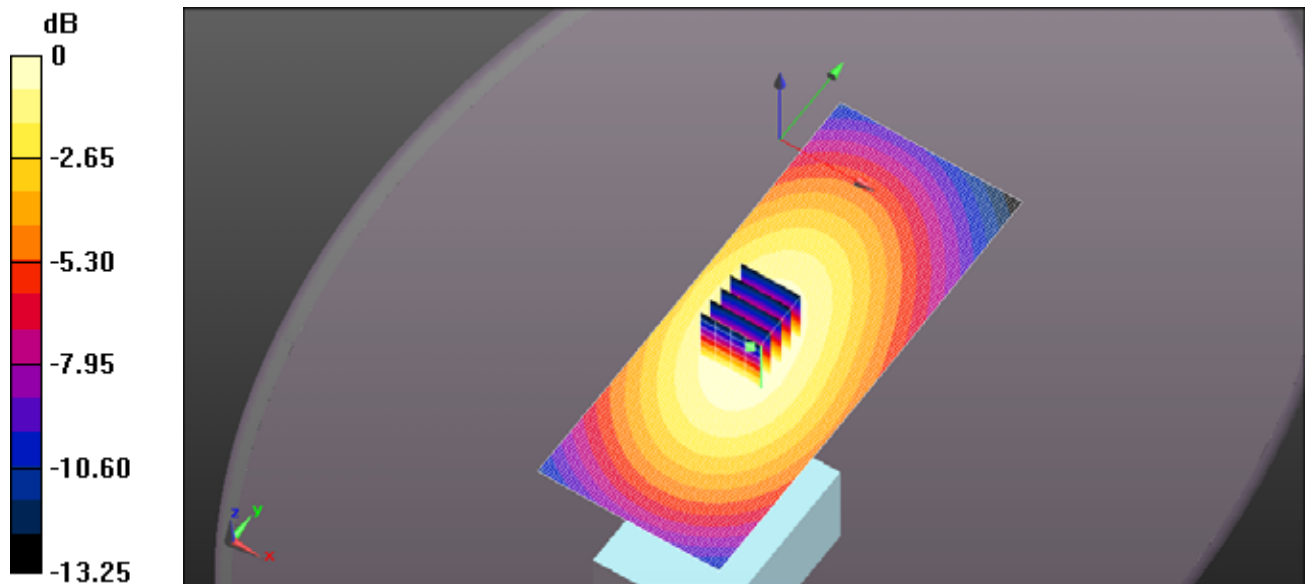
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.89 V/m ; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 5.49 W/kg

SAR(1 g) = 4.26 W/kg ; SAR(10 g) = 3.17 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.67 W/kg



0 dB = $4.70 \text{ W/kg} = 6.72 \text{ dBW/kg}$

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 44.368$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 4.60 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

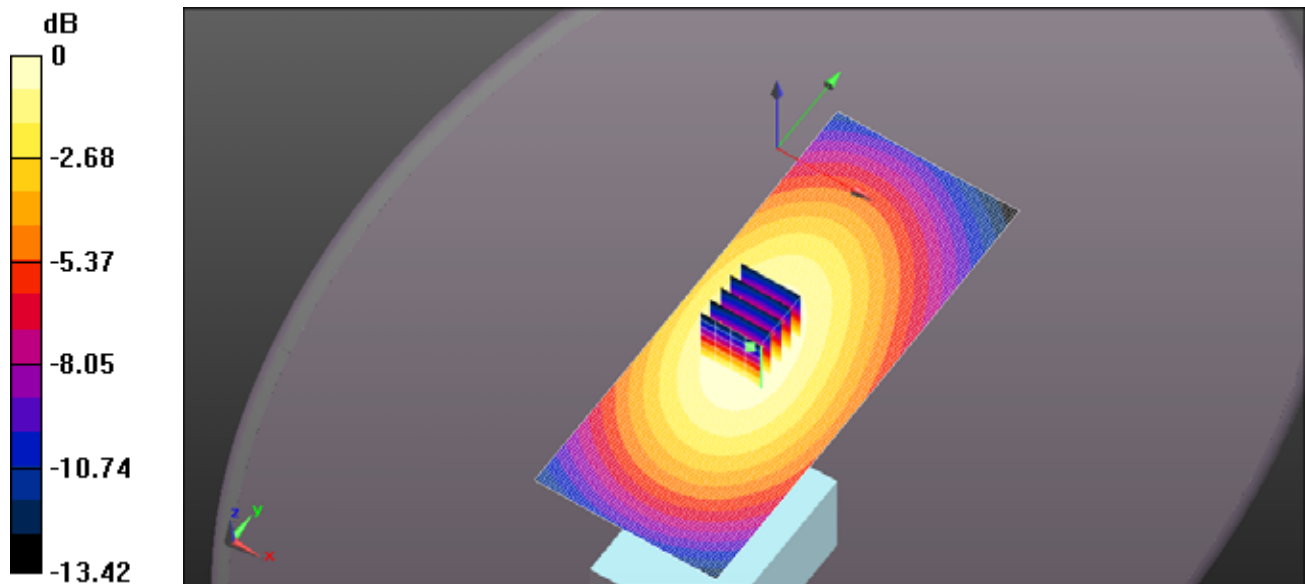
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.10 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.32 W/kg

SAR(1 g) = 4.05 W/kg ; SAR(10 g) = 2.99 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.54 W/kg



0 dB = 4.60 W/kg = 6.63 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400$ MHz; $\sigma = 0.789$ S/m; $\epsilon_r = 47.421$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 0.418 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

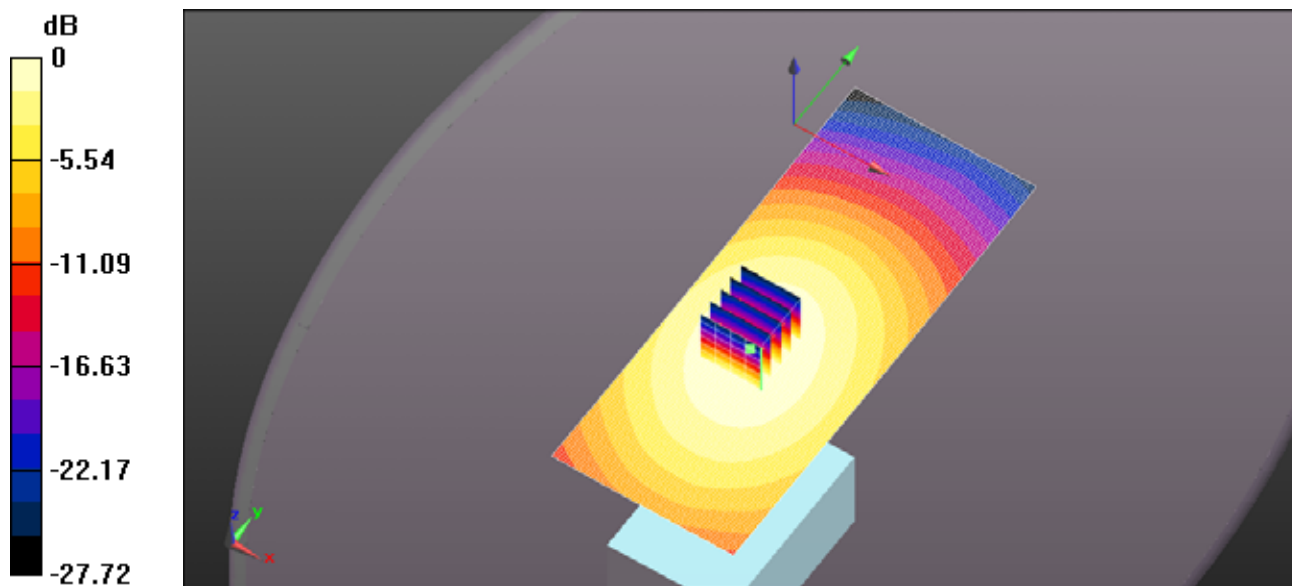
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 0.9030 V/m; Power Drift = -2.06 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.388 W/kg; SAR(10 g) = 0.286 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.390 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 412.5MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 412.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 412.5$ MHz; $\sigma = 0.801$ S/m; $\epsilon_r = 47.152$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 0.583 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

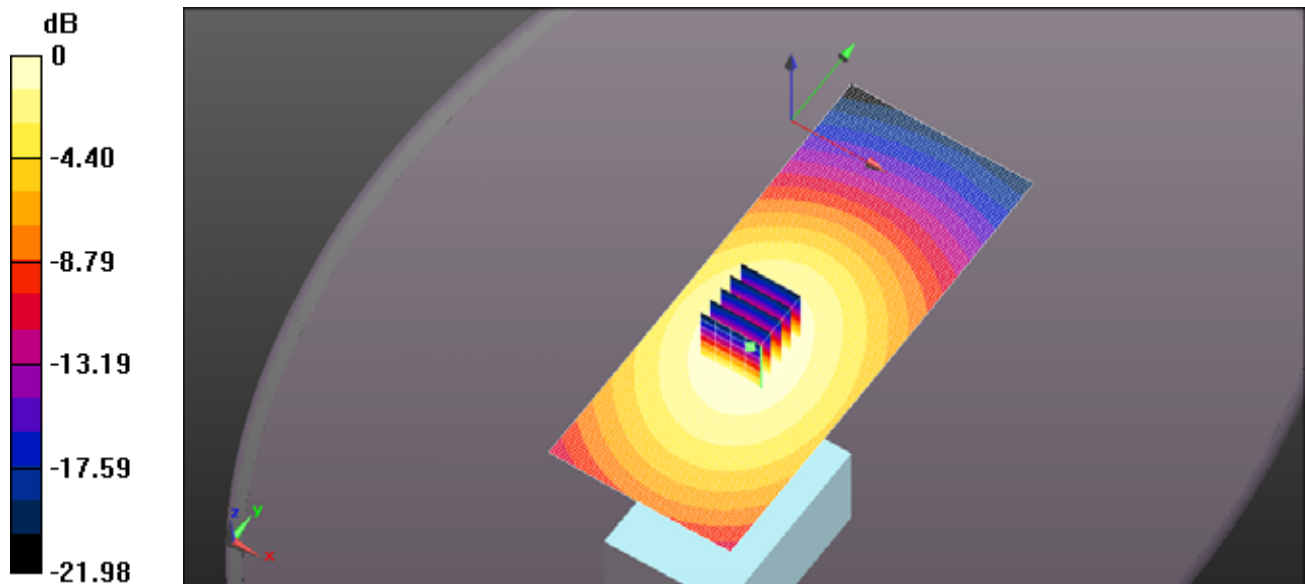
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.262 V/m; Power Drift = -0.35 dB

Peak SAR (extrapolated) = 0.678 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.423 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.583 W/kg



0 dB = 0.583 W/kg = -2.34 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 425MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 425 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 425 \text{ MHz}$; $\sigma = 0.818 \text{ S/m}$; $\epsilon_r = 46.523$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x151x1):

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

Maximum value of SAR (interpolated) = 0.886 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

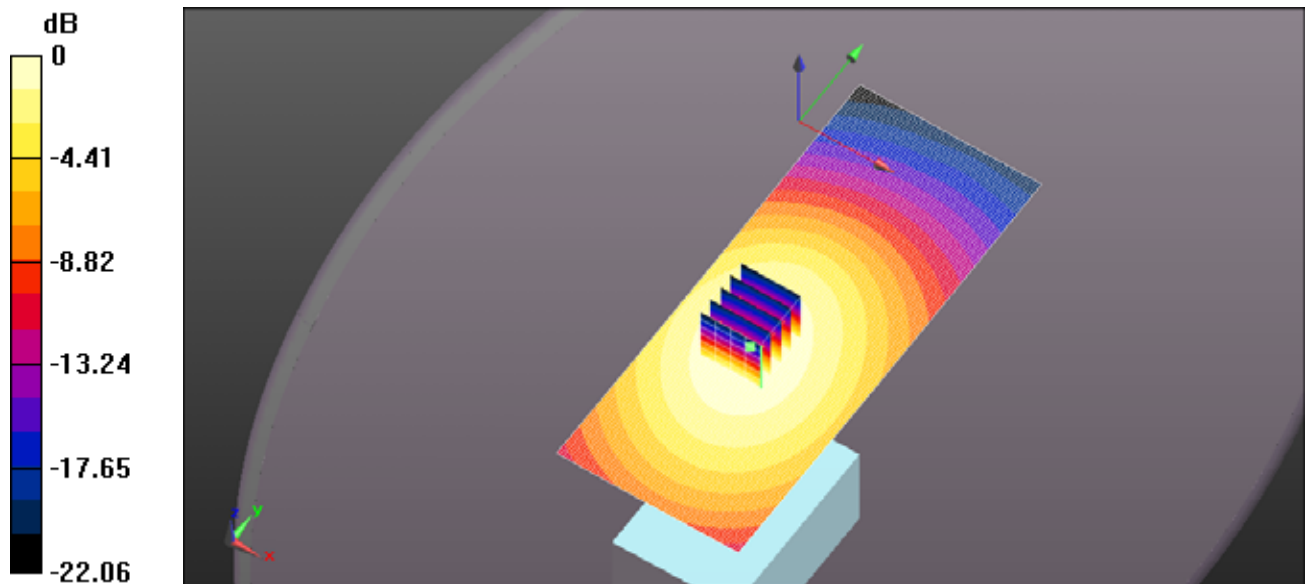
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.668 V/m ; Power Drift = -0.62 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.852 W/kg ; SAR(10 g) = 0.629 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.886 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 437.5MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 437.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 437.5$ MHz; $\sigma = 0.836$ S/m; $\epsilon_r = 45.863$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 1.37 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

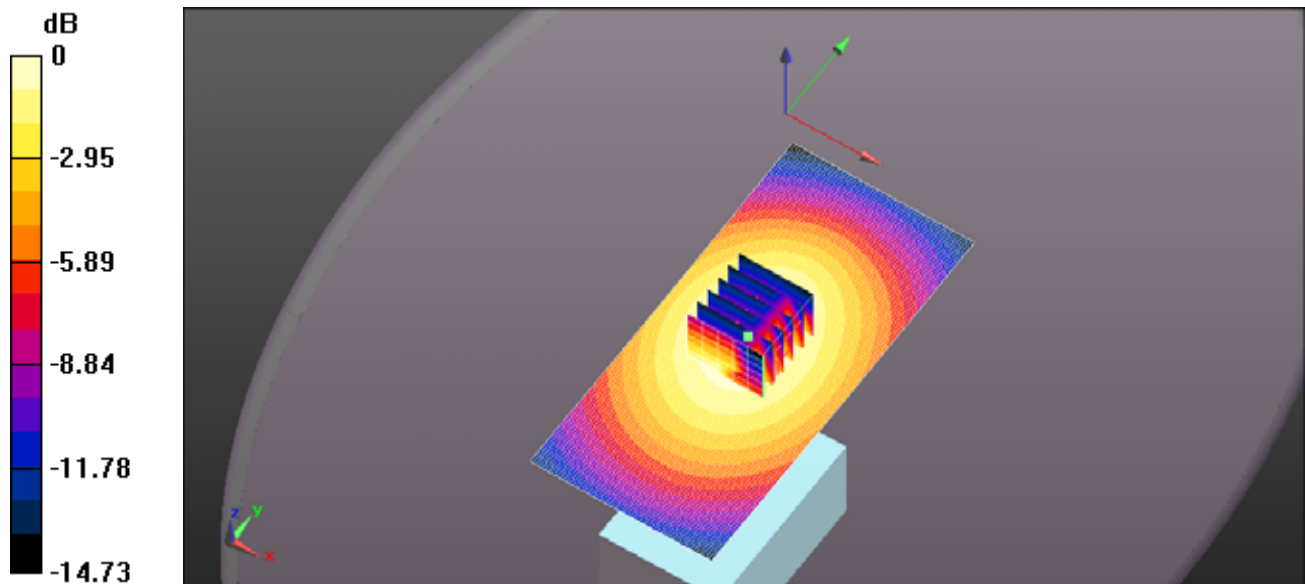
(6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 7.505 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.971 W/kg; SAR(10 g) = 0.569 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.22 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 450MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.855$ S/m; $\epsilon_r = 45.183$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 3.51 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

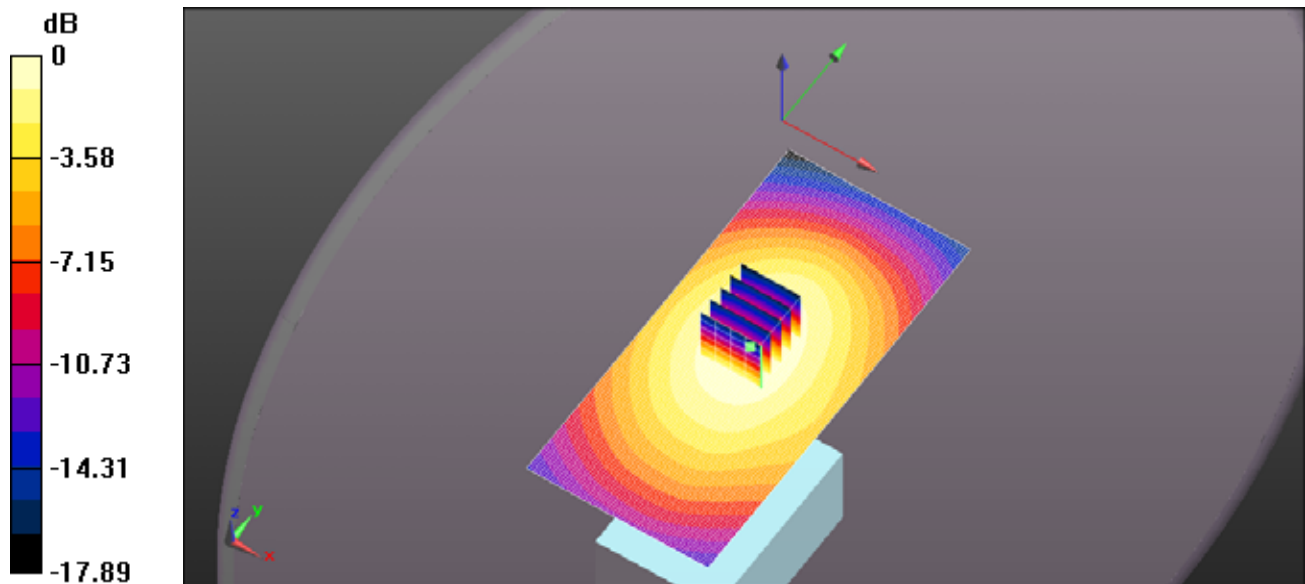
(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 8.234 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 4.05 W/kg

SAR(1 g) = 3.19 W/kg; SAR(10 g) = 2.34 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.48 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC73US 450MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.855 \text{ S/m}$; $\epsilon_r = 45.183$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 2.81 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

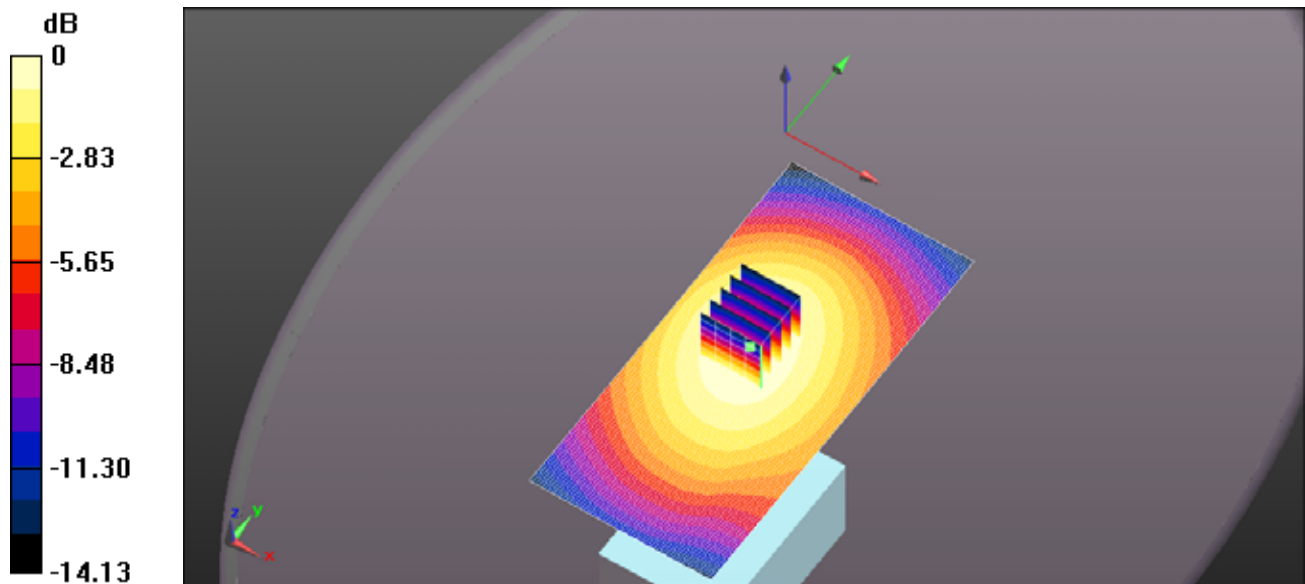
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.33 V/m ; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 2.5 W/kg ; SAR(10 g) = 1.86 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.72 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC73US 460MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 460 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.869 \text{ S/m}$; $\epsilon_r = 44.679$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 1.52 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

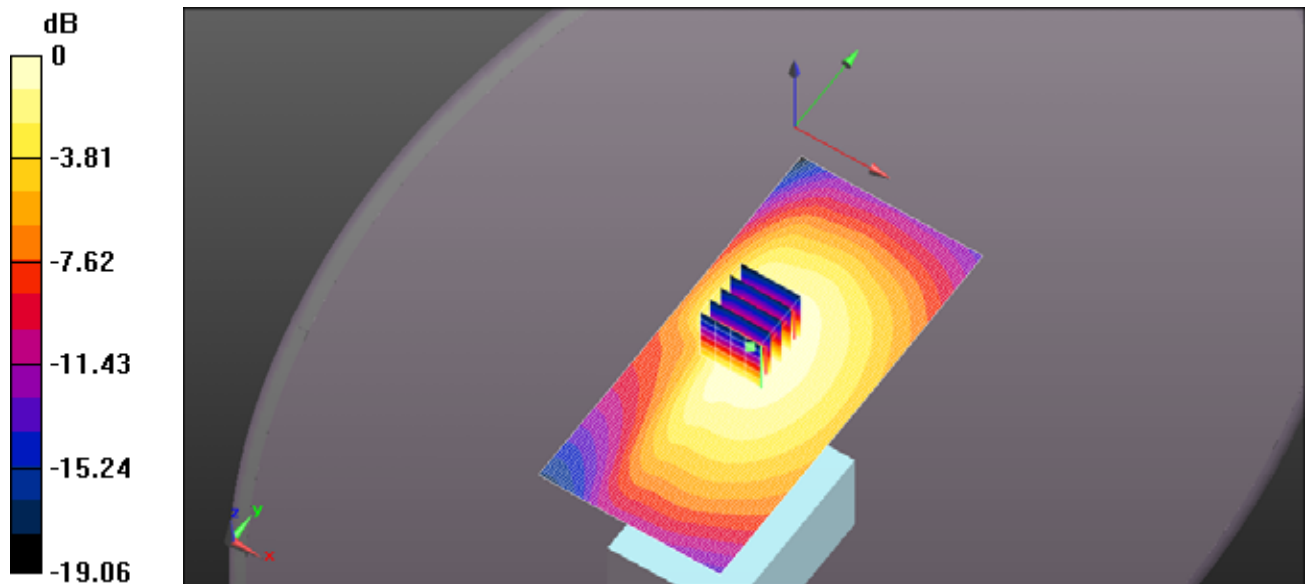
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.845 V/m ; Power Drift = -0.34 dB

Peak SAR (extrapolated) = 0.740 W/kg

SAR(1 g) = 0.578 W/kg ; SAR(10 g) = 0.427 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.640 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC73US 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 44.368$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 0.869 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

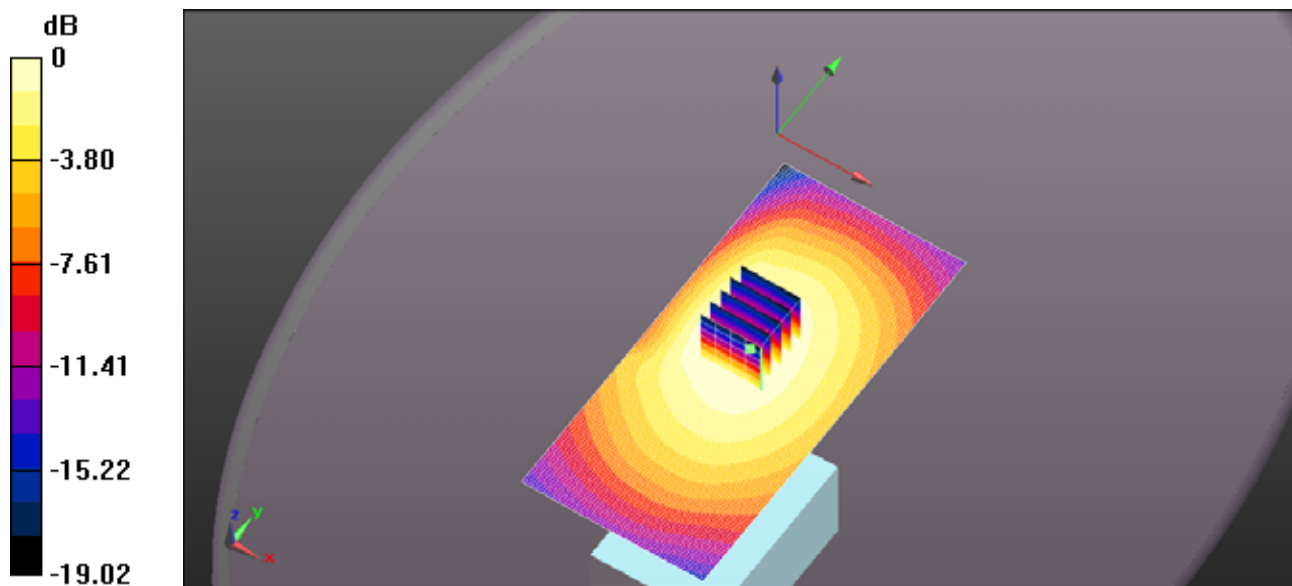
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.519 V/m ; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.347 W/kg ; SAR(10 g) = 0.256 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.385 W/kg



0 dB = 0.869 W/kg = -0.61 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 165mm 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400 \text{ MHz}$; $\sigma = 0.789 \text{ S/m}$; $\epsilon_r = 47.421$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 5.52 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

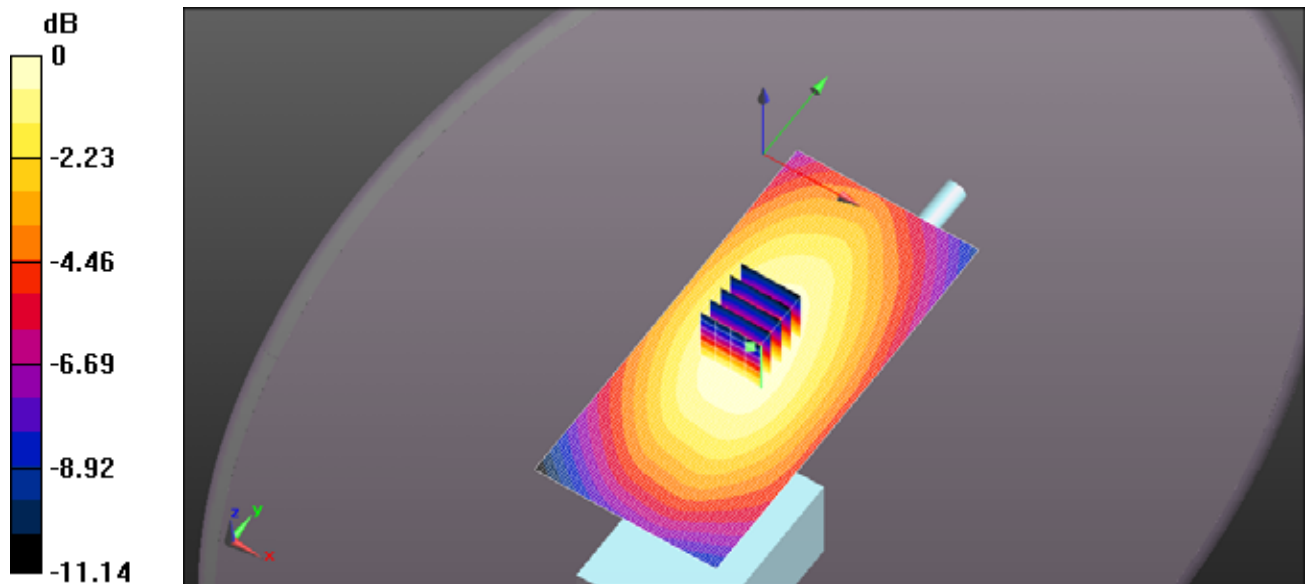
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 36.80 V/m ; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 6.03 W/kg

SAR(1 g) = 5.22 W/kg ; SAR(10 g) = 3.9 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.21 W/kg



0 dB = 5.52 W/kg = 7.42 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 165mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.84 \text{ S/m}$; $\epsilon_r = 45.733$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.68 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

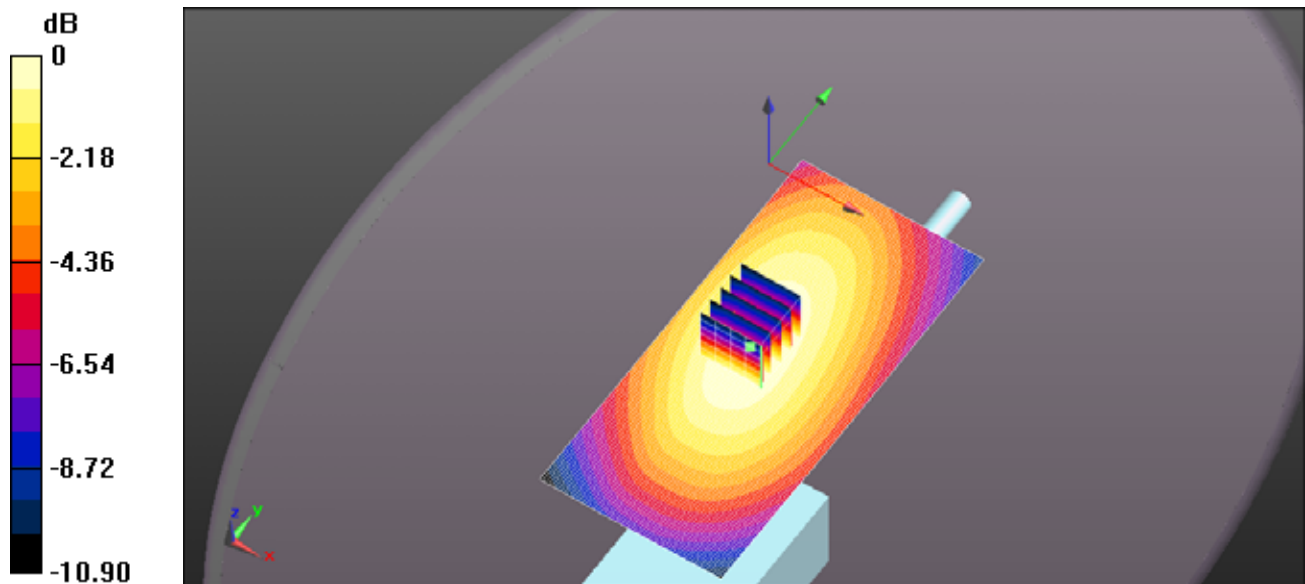
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.37 V/m ; Power Drift = -0.32 dB

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 8.42 W/kg ; SAR(10 g) = 6.32 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.92 W/kg



0 dB = 9.68 W/kg = 9.86 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 165mm 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 44.368$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 5.18 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

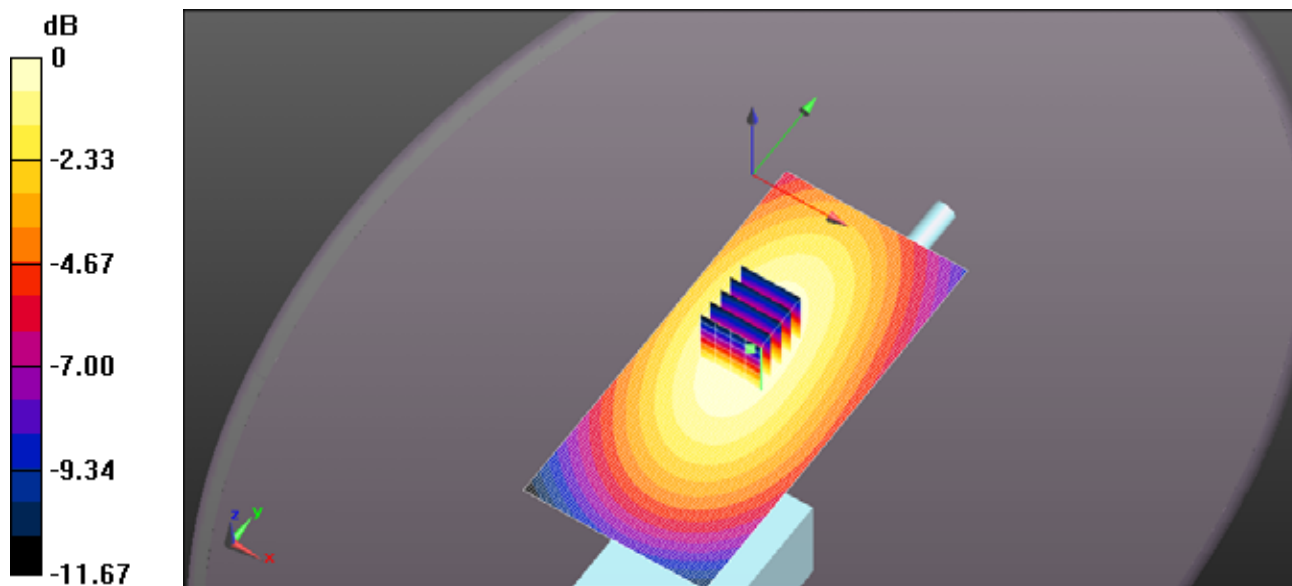
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.49 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.93 W/kg

SAR(1 g) = 4.58 W/kg ; SAR(10 g) = 3.44 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.09 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 156mm 420MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 420 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 420 \text{ MHz}$; $\sigma = 0.811 \text{ S/m}$; $\epsilon_r = 46.81$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 5.03 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

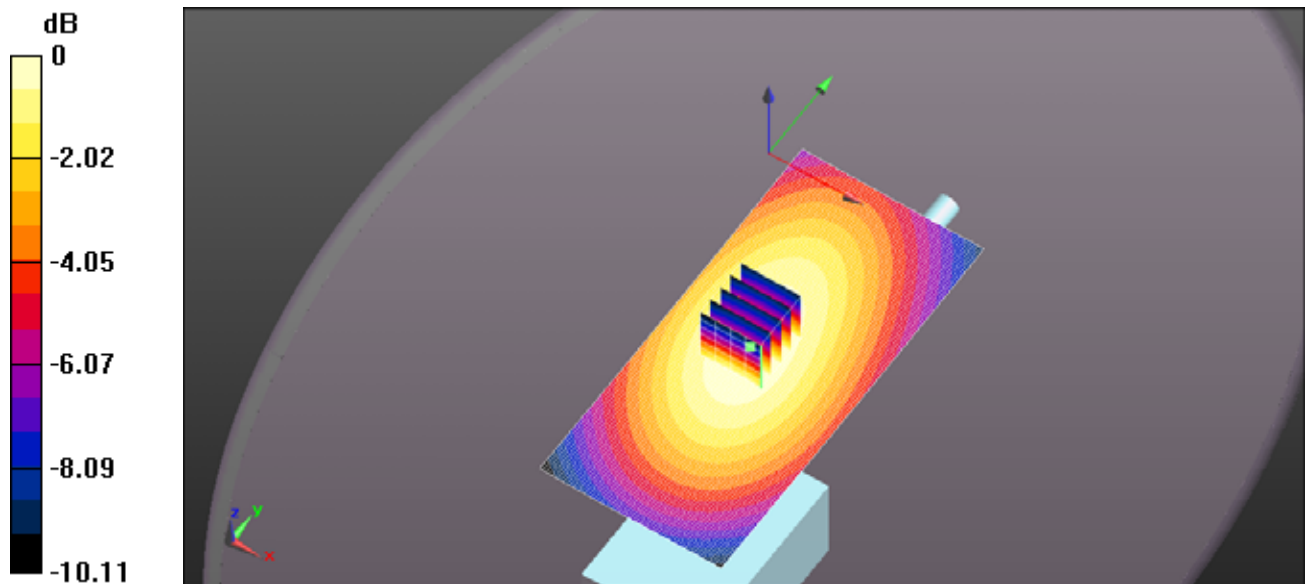
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 37.28 V/m ; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 5.83 W/kg

SAR(1 g) = 4.92 W/kg ; SAR(10 g) = 3.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.05 W/kg



0 dB = 5.03 W/kg = 7.01 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 156mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.84 \text{ S/m}$; $\epsilon_r = 45.733$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 7.20 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

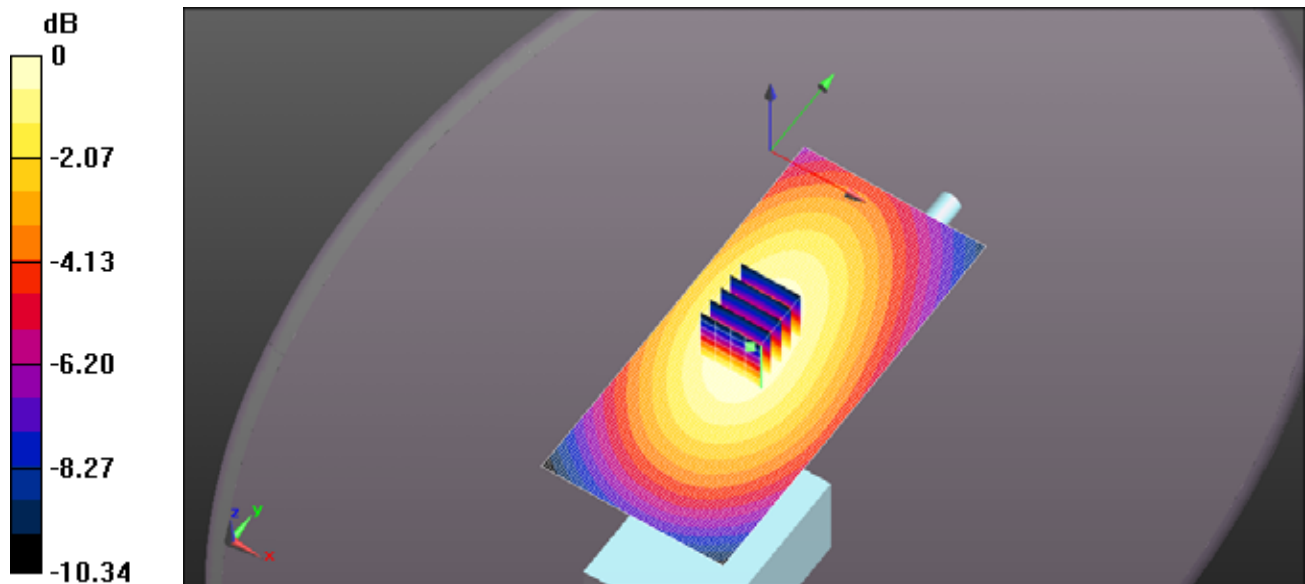
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.76 V/m ; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 8.44 W/kg

SAR(1 g) = 6.86 W/kg ; SAR(10 g) = 5.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.30 W/kg



0 dB = 7.20 W/kg = 8.57 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 156mm 460MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 460 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.869 \text{ S/m}$; $\epsilon_r = 44.679$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 7.12 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

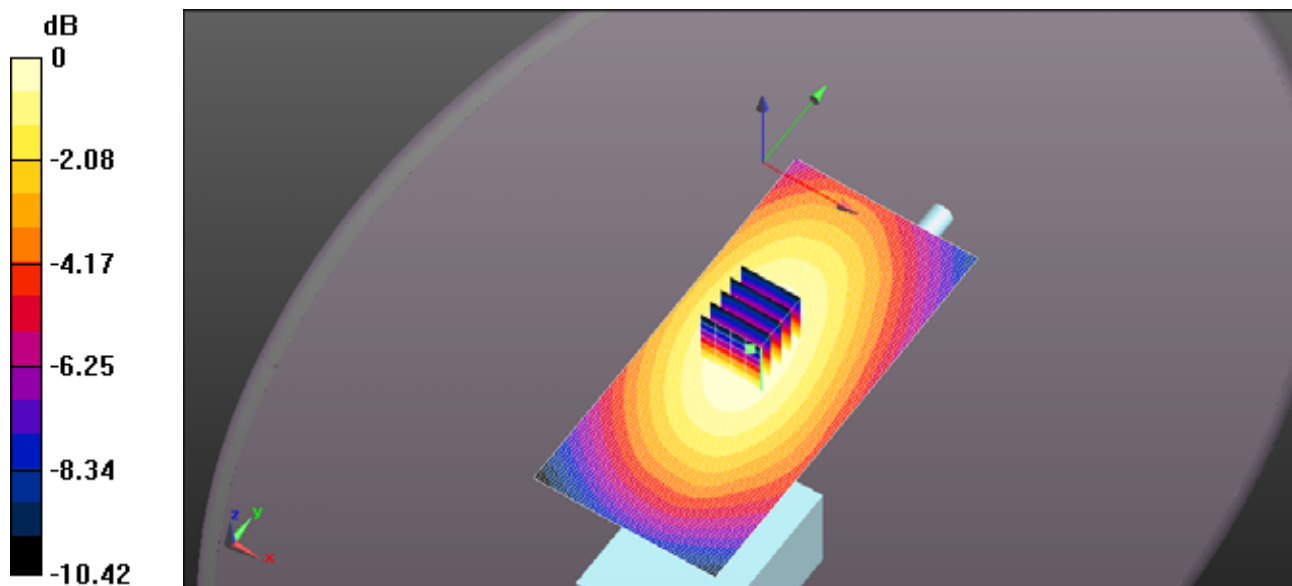
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.32 V/m ; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 7.73 W/kg

SAR(1 g) = 5.99 W/kg ; SAR(10 g) = 4.5 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.62 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 148mm 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400 \text{ MHz}$; $\sigma = 0.789 \text{ S/m}$; $\epsilon_r = 47.421$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 1.97 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

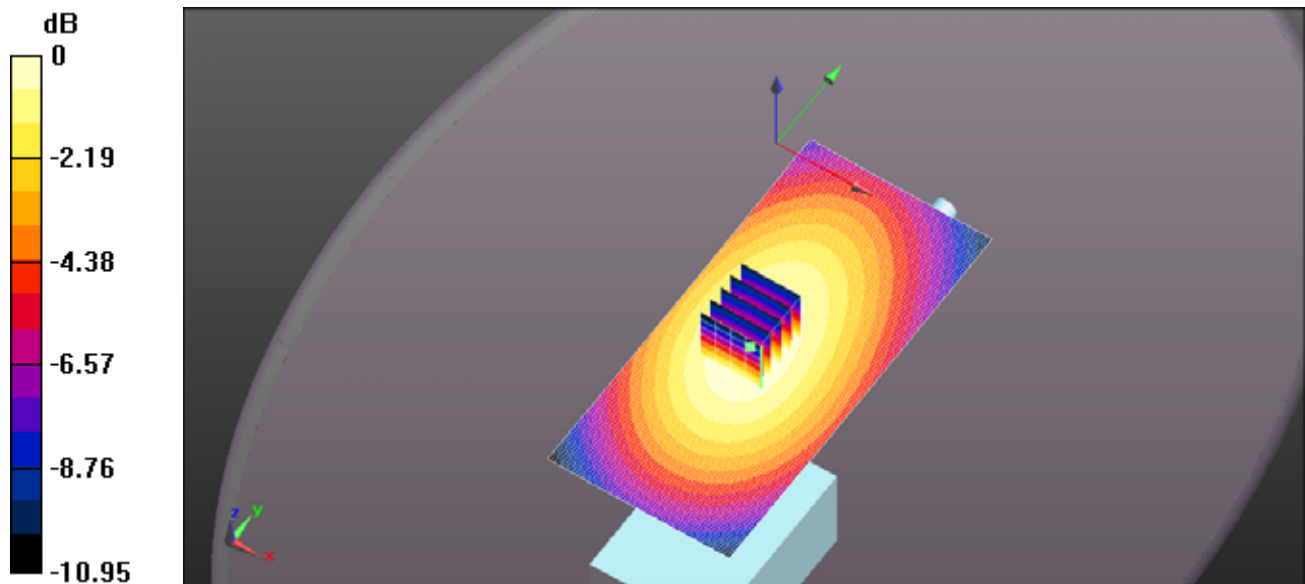
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.02 V/m ; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.26 W/kg

SAR(1 g) = 1.98 W/kg ; SAR(10 g) = 1.49 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.98 W/kg



0 dB = 1.97 W/kg = 2.95 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 148mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.84 \text{ S/m}$; $\epsilon_r = 45.733$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 5.76 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

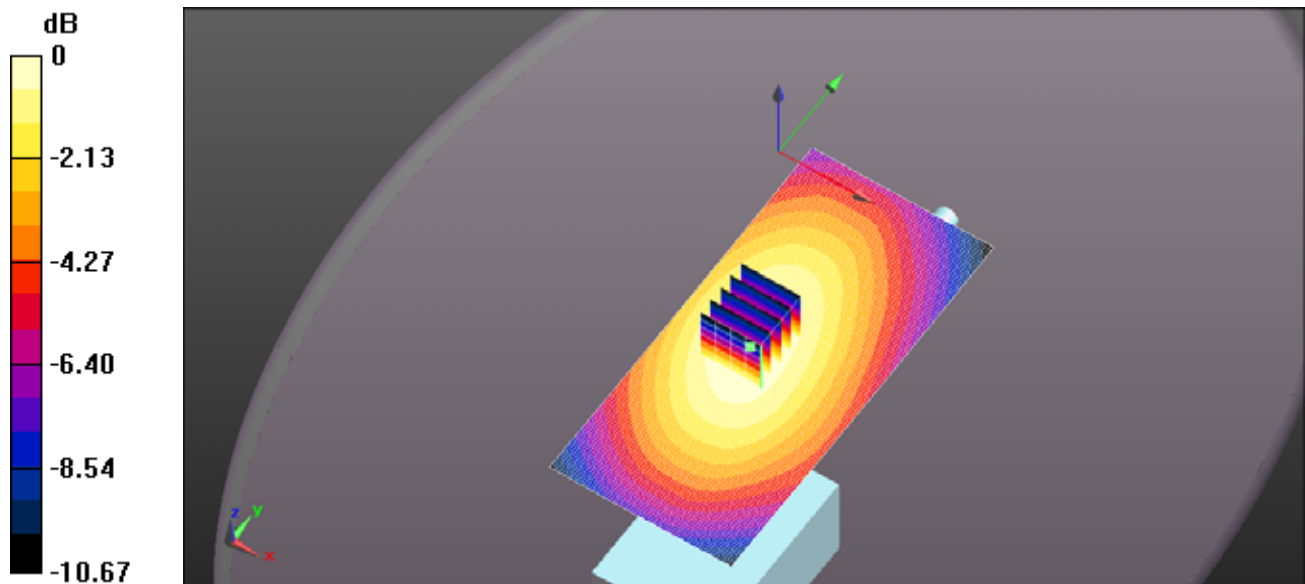
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.58 V/m ; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 6.19 W/kg

SAR(1 g) = 5.04 W/kg ; SAR(10 g) = 3.79 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.37 W/kg



0 dB = 5.76 W/kg = 7.61 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 148mm 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 44.368$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 7.37 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

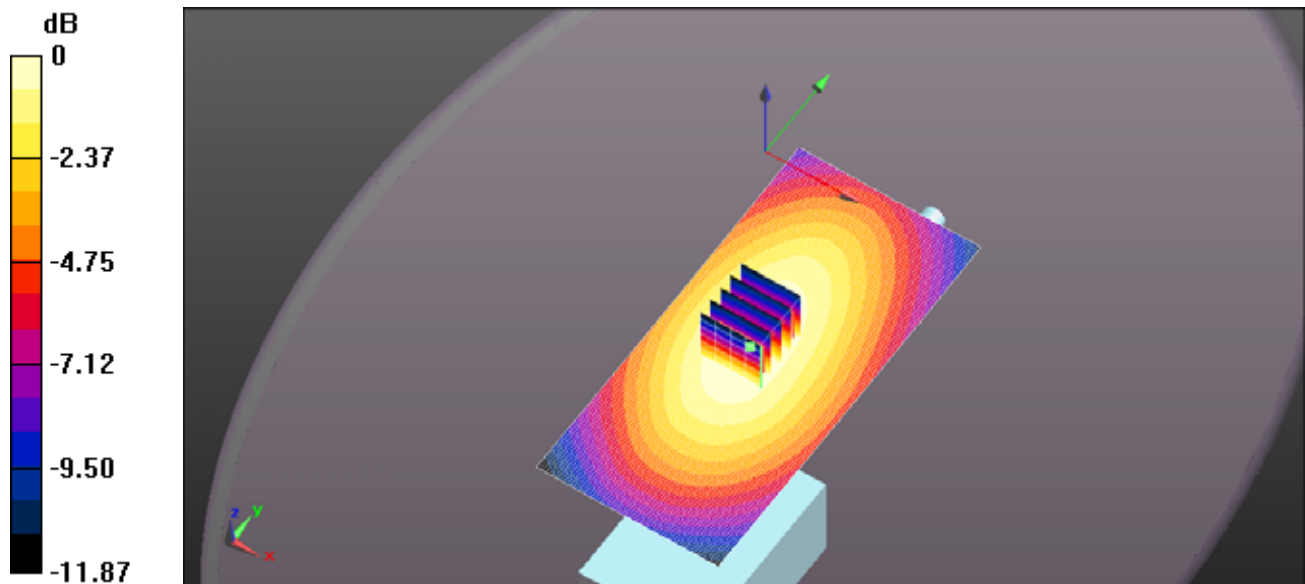
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.90 V/m ; Power Drift = -0.86 dB

Peak SAR (extrapolated) = 7.87 W/kg

SAR(1 g) = 5.94 W/kg ; SAR(10 g) = 4.44 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.65 W/kg



0 dB = 7.37 W/kg = 8.68 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 142mm 420MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 420 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 420 \text{ MHz}$; $\sigma = 0.811 \text{ S/m}$; $\epsilon_r = 46.81$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 3.07 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

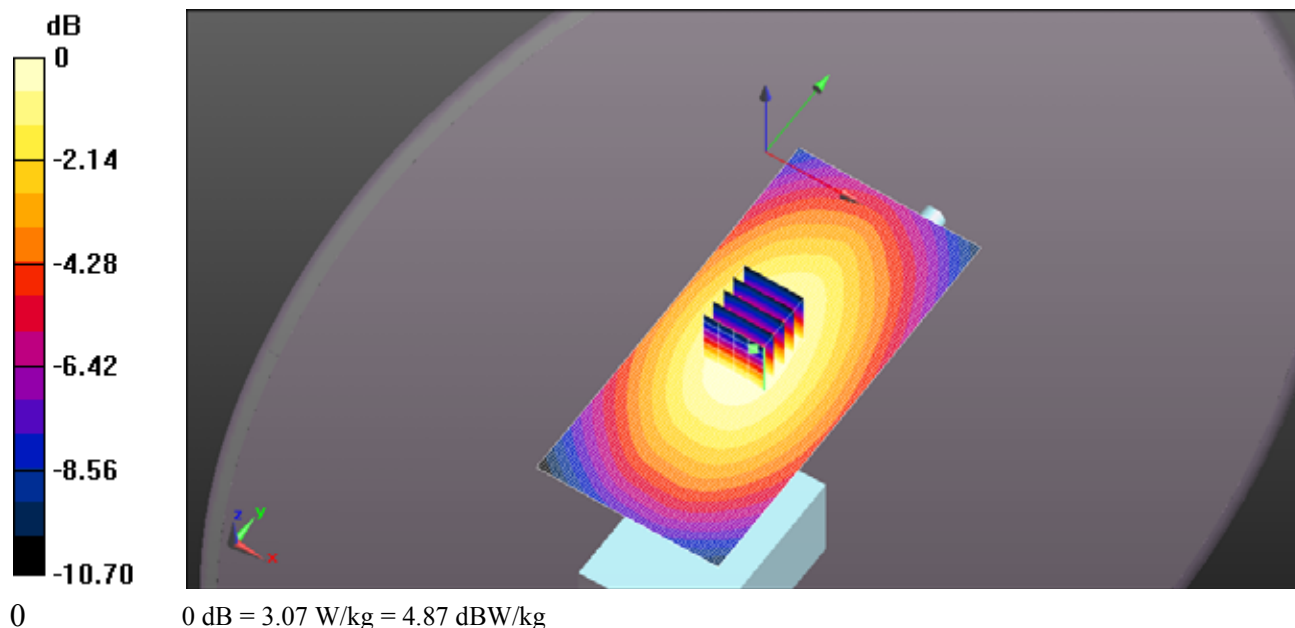
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.01 V/m ; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 2.73 W/kg ; SAR(10 g) = 2.05 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.79 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 142mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.84 \text{ S/m}$; $\epsilon_r = 45.733$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 4.04 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

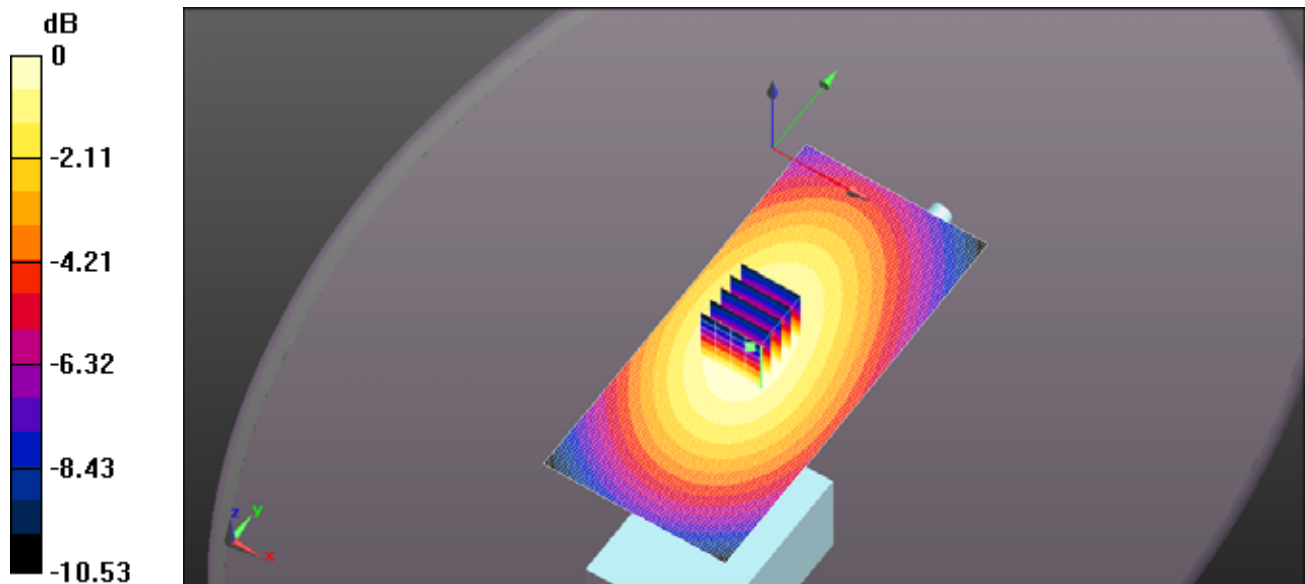
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.59 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.66 W/kg

SAR(1 g) = 3.81 W/kg ; SAR(10 g) = 2.86 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.06 W/kg



0 dB = 4.04 W/kg = 6.06 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 142mm 460MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 460 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.869 \text{ S/m}$; $\epsilon_r = 44.679$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.43, 10.43, 10.43); 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_Head_IC-F62D/Head Front, P=5W, d=25mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 6.20 W/kg

Configuration_Head_IC-F62D/Head Front, P=5W, d=25mm/Zoom Scan (5x5x7)

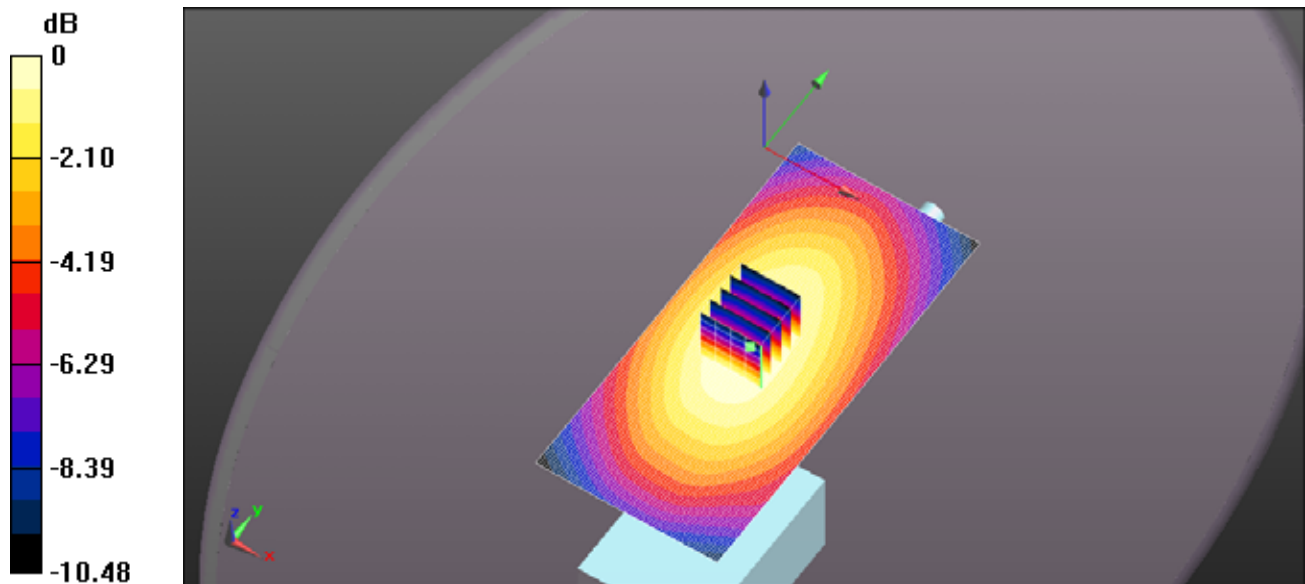
(5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.57 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 6.99 W/kg

SAR(1 g) = 5.43 W/kg ; SAR(10 g) = 4.04 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.97 W/kg



0 dB = 6.20 W/kg = 7.92 dBW/kg

EXHIBIT 3. BODY SAR MEASUREMENTS

Antenna	Power (dBm)	CH	CH. Freq	BODY SAR1g (W/Kg)	BODY SAR10g (W/Kg)
				BP-290	BP-290
			(MHz)	1950mAh	1950mAh
FA-SC25U 400-430 MHz	29.70	1	400	5.59	4.17
	30.16	4	415	7.38	5.56
	30.37	7	430	7.12	5.31
FA-S57U 440-470 MHz	30.47	9	440	4.58	3.39
	30.62	11	455	7.7	5.71
	30.74	13	470	7.25	5.36
FA-S26US 400-450 MHz	29.70	1	400	0.717	0.529
	30.11	3	412.5	1.1	0.824
	30.28	6	425	1.54	1.14
	30.67	8	437.5	2.45	1.8
	30.67	10	450	5.06	3.7
FA-S73US 450-470 MHz	30.67	10	450	2.56	1.88
	30.49	12	460	0.952	0.583
	30.74	13	470	0.431	0.317

Cut Antenna	Power (dBm)	CH	CH. Freq	BODY SAR1g (W/Kg)	BODY SAR10g (W/Kg)
				BP-290	BP-290
			(MHz)	1950mAh	1950mAh
FA-S61UC 400MHz 165mm	29.70	1	400	7.39	5.54
	30.19	5	420		
	30.47	9	440	6.85	5.11
	30.49	12	460		
	30.74	13	470	3.27	2.43
FA-S61UC 420MHz 156mm	29.70	1	400		
	30.19	5	420	6.77	5.07
	30.47	9	440	6.88	5.15
	30.49	12	460	6.51	4.82
	30.74	13	470		
FA-S61UC 440MHz 148mm	29.70	1	400	3.75	2.8
	30.19	5	420		
	30.47	9	440	7.6	5.69
	30.49	12	460		
	30.74	13	470	7.28	5.35
FA-S61UC 460MHz 142mm	29.70	1	400		
	30.19	5	420	4.4	3.28
	30.47	9	440	5.44	4.05
	30.49	12	460	7.78	5.75
	30.74	13	470		

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC25U 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400$ MHz; $\sigma = 0.844$ S/m; $\epsilon_r = 58.438$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 7.38 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

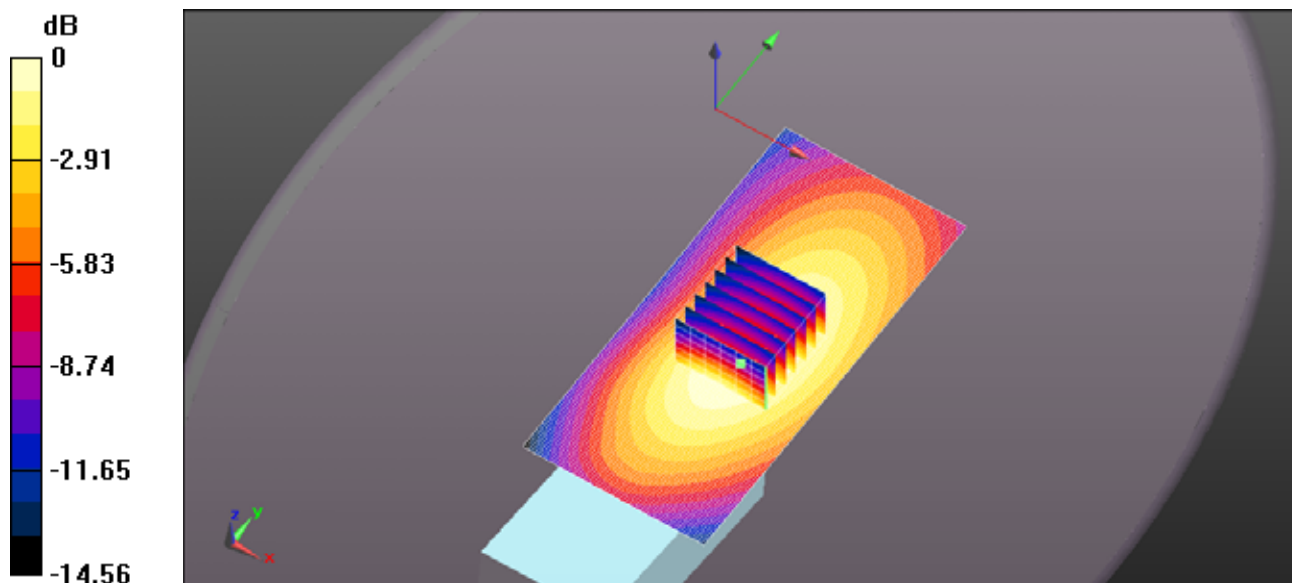
(7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 91.24 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.34 W/kg

SAR(1 g) = 5.59 W/kg; SAR(10 g) = 4.17 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.20 W/kg



0 dB = 7.38 W/kg = 8.68 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC25U 415MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 415 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 415 \text{ MHz}$; $\sigma = 0.854 \text{ S/m}$; $\epsilon_r = 58.26$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.78 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

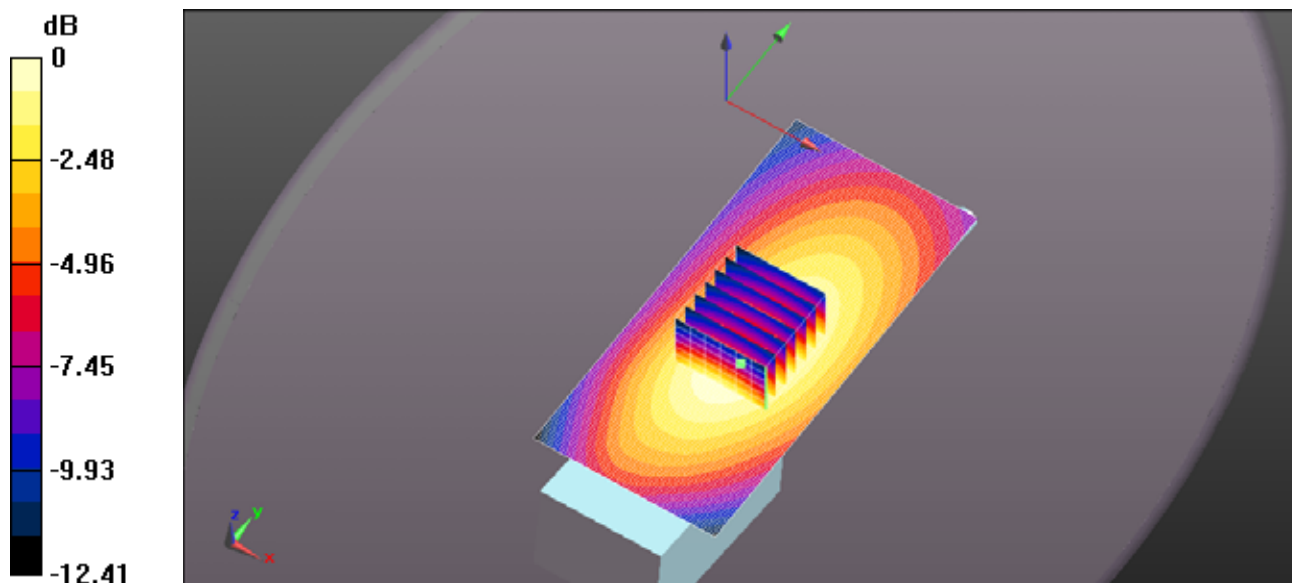
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 103.2 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 9.62 W/kg

SAR(1 g) = 7.38 W/kg ; SAR(10 g) = 5.56 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.17 W/kg



0 dB = 9.78 W/kg = 9.90 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC25U 430MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 430 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 430 \text{ MHz}$; $\sigma = 0.871 \text{ S/m}$; $\epsilon_r = 57.831$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.52 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

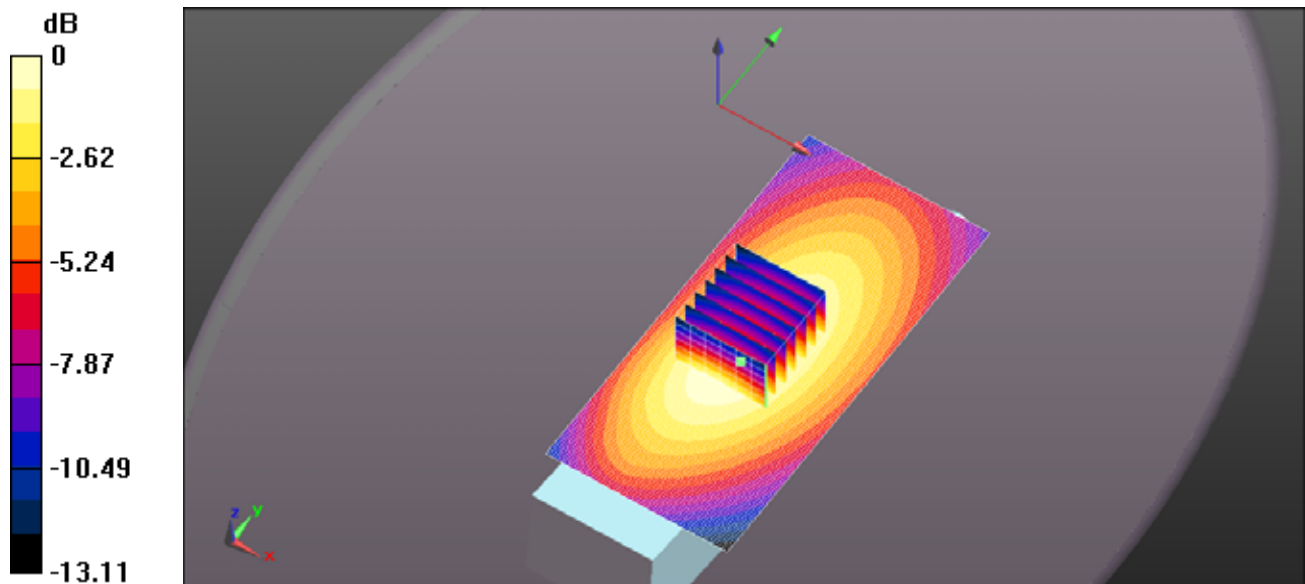
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 100.9 V/m ; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 9.42 W/kg

SAR(1 g) = 7.12 W/kg ; SAR(10 g) = 5.31 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.93 W/kg



0 dB = 9.52 W/kg = 9.79 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 57.569$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 6.18 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

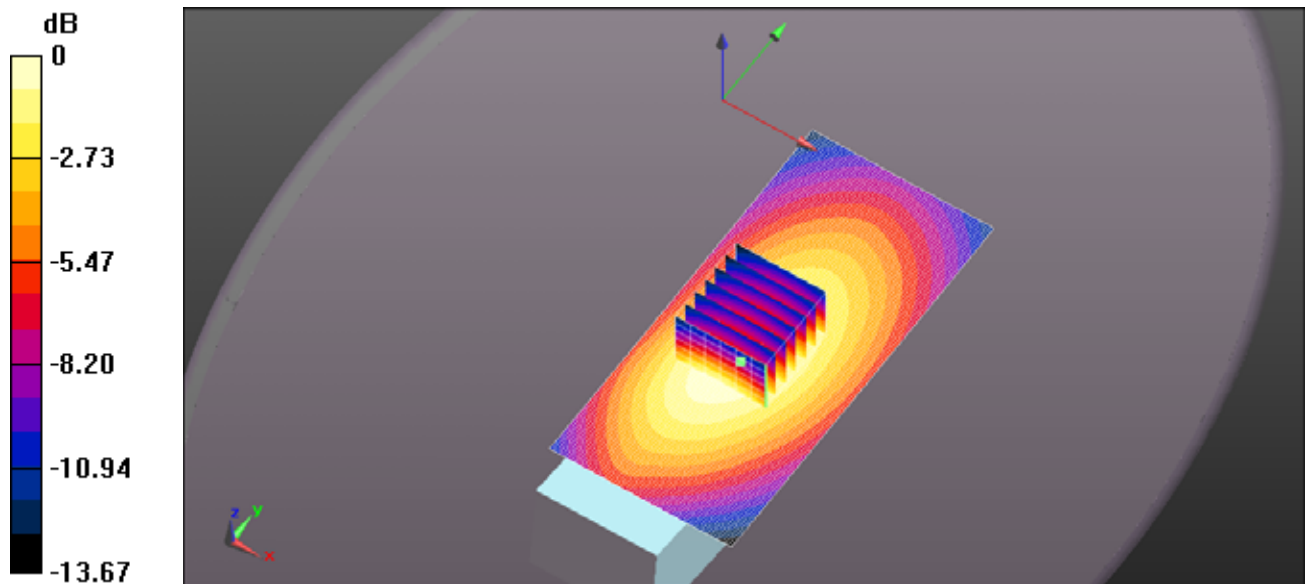
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 79.41 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.03 W/kg

SAR(1 g) = 4.58 W/kg ; SAR(10 g) = 3.39 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.09 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 455MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 455 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 455 \text{ MHz}$; $\sigma = 0.911 \text{ S/m}$; $\epsilon_r = 57.258$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 10.2 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

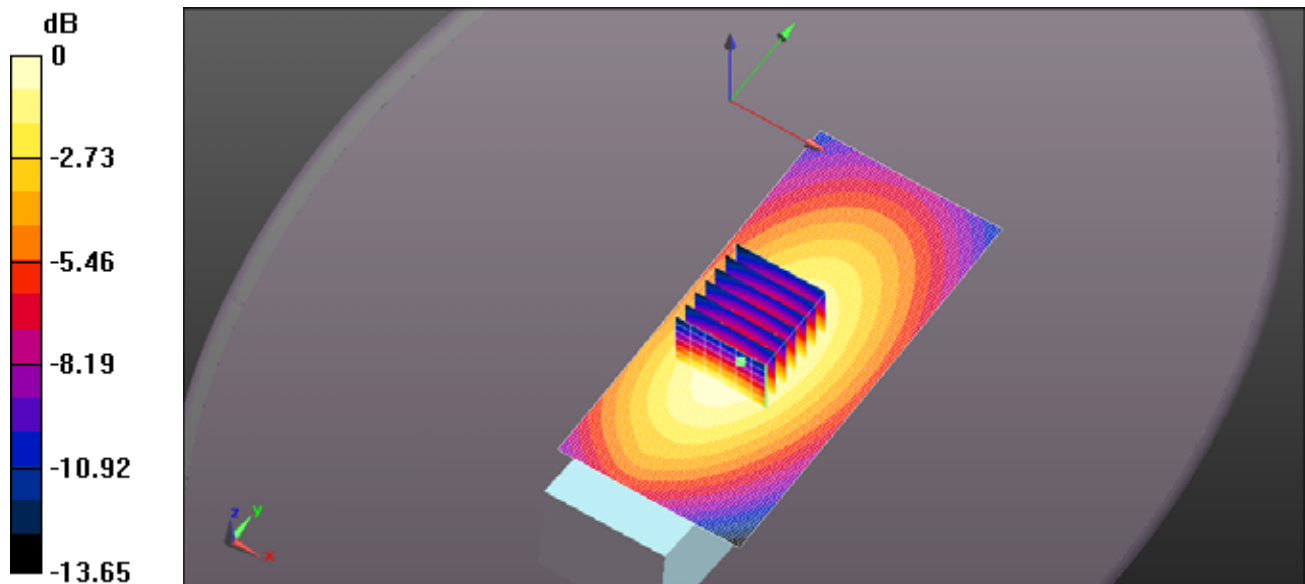
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 100.7 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 7.7 W/kg ; SAR(10 g) = 5.71 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.55 W/kg



0 dB = 10.2 W/kg = 10.09 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC57U 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 56.979$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 10.7 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

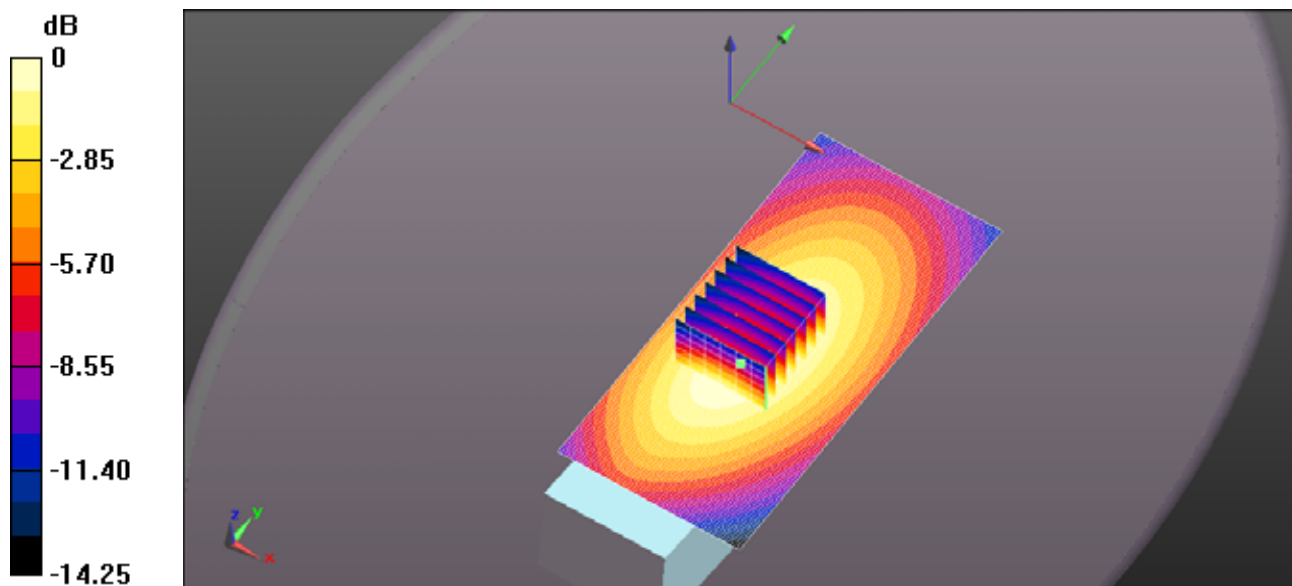
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 101.4 V/m ; Power Drift = -0.69 dB

Peak SAR (extrapolated) = 9.65 W/kg

SAR(1 g) = 7.25 W/kg ; SAR(10 g) = 5.36 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.06 W/kg



0 dB = 10.7 W/kg = 10.30 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400 \text{ MHz}$; $\sigma = 0.844 \text{ S/m}$; $\epsilon_r = 58.438$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 0.937 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

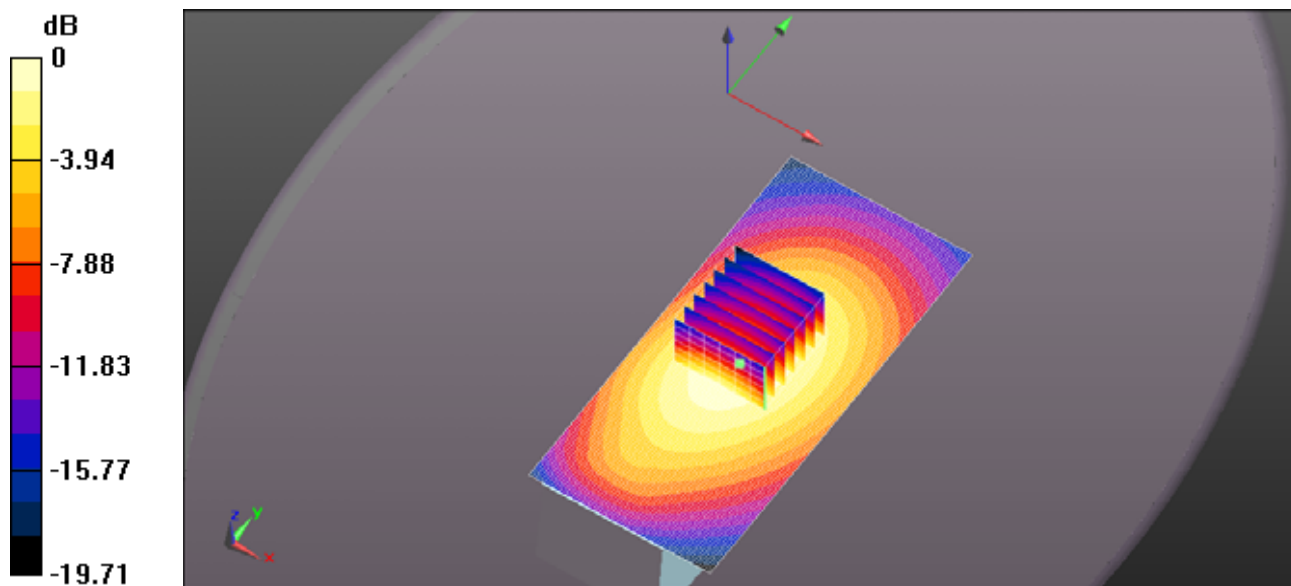
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.98 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.951 W/kg

SAR(1 g) = 0.717 W/kg ; SAR(10 g) = 0.529 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.798 W/kg



0 dB = 0.937 W/kg = -0.28 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 412.5MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 412.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 412.5$ MHz; $\sigma = 0.852$ S/m; $\epsilon_r = 58.307$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 1.46 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

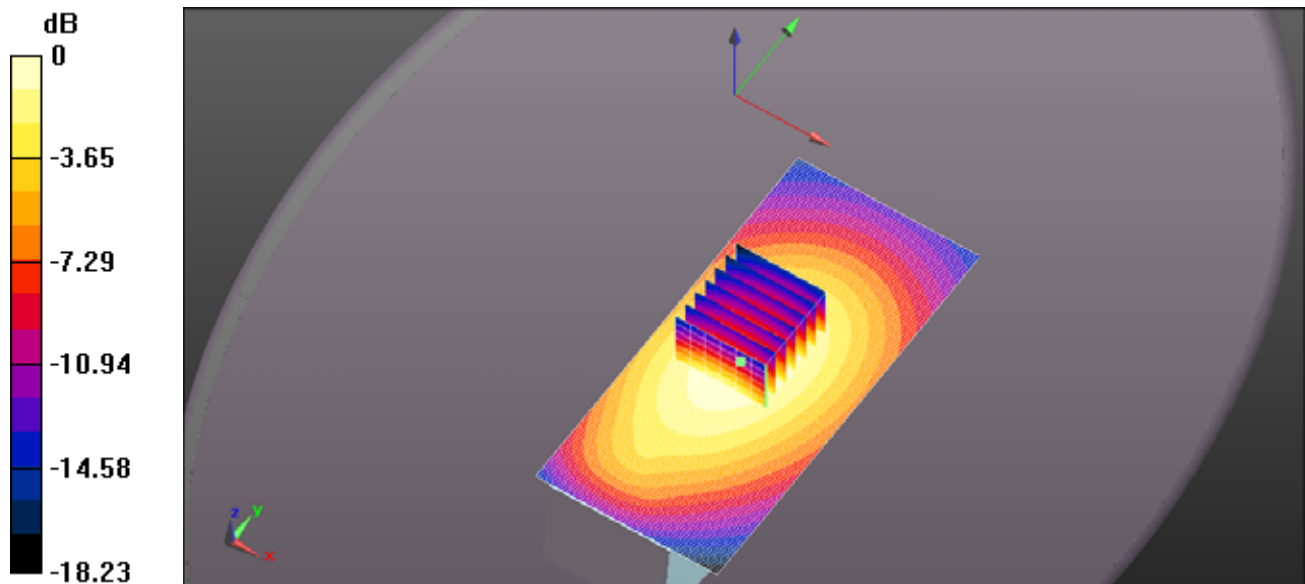
(7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 37.06 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.824 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.46 W/kg = 1.65 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 425MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 425 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 425 \text{ MHz}$; $\sigma = 0.866 \text{ S/m}$; $\epsilon_r = 58.005$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 2.05 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

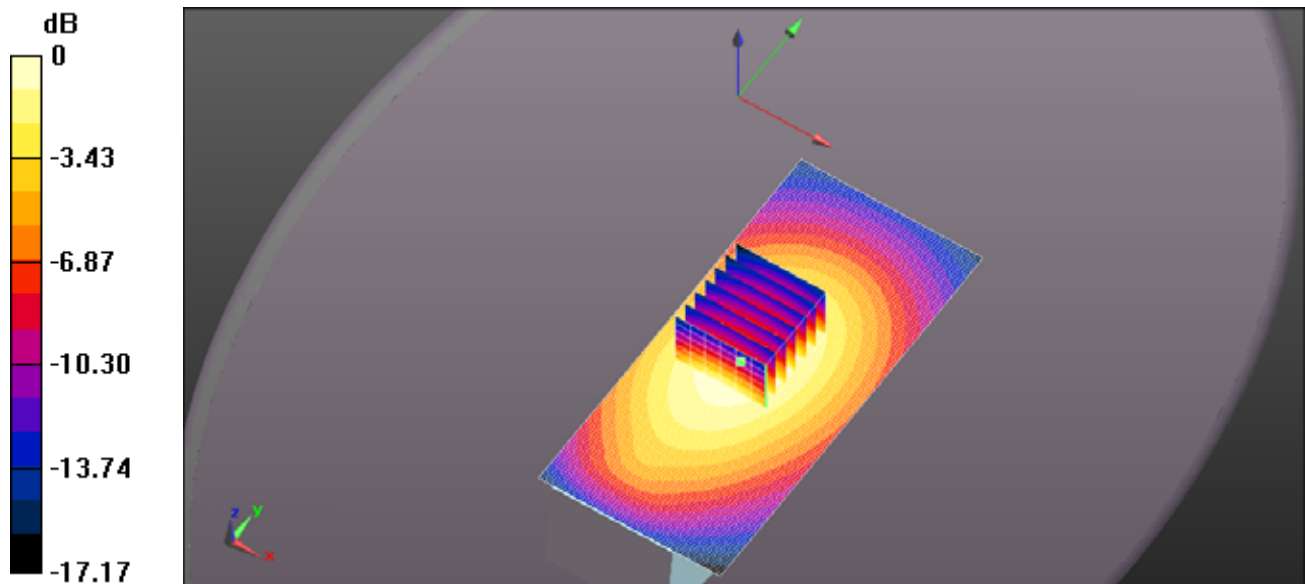
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.45 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 1.54 W/kg ; SAR(10 g) = 1.14 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 2.05 W/kg = 3.11 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 437.5MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 437.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 437.5$ MHz; $\sigma = 0.884$ S/m; $\epsilon_r = 57.631$; $\rho = 1000$ kg/m³ ;

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

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 3.22 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

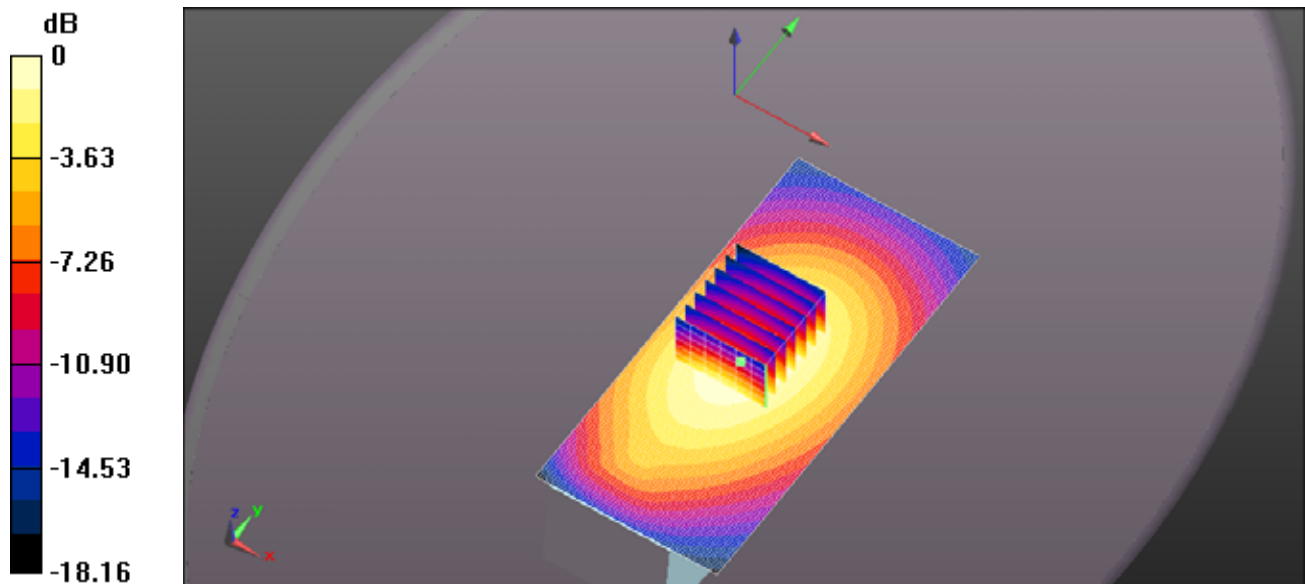
(7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.59 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.8 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.73 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC26US 450MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.902 \text{ S/m}$; $\epsilon_r = 57.353$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 6.42 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

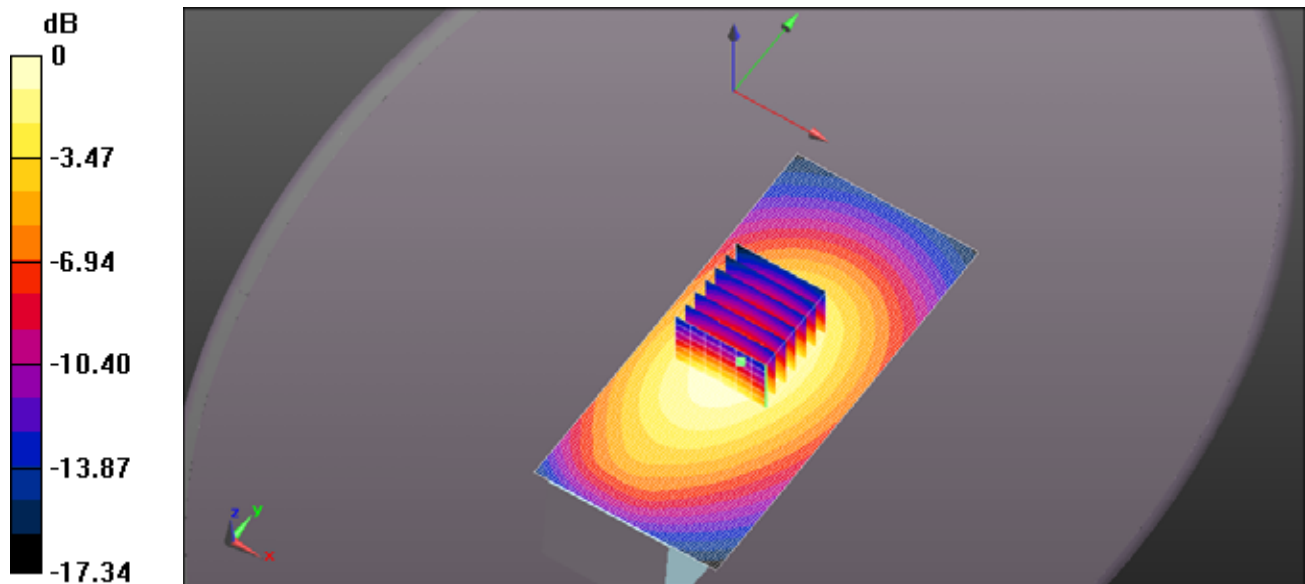
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 74.67 V/m ; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 6.41 W/kg

SAR(1 g) = 5.06 W/kg ; SAR(10 g) = 3.7 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 5.40 W/kg



0 dB = 6.42 W/kg = 8.08 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC73US 450MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 450$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 57.353$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 3.28 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

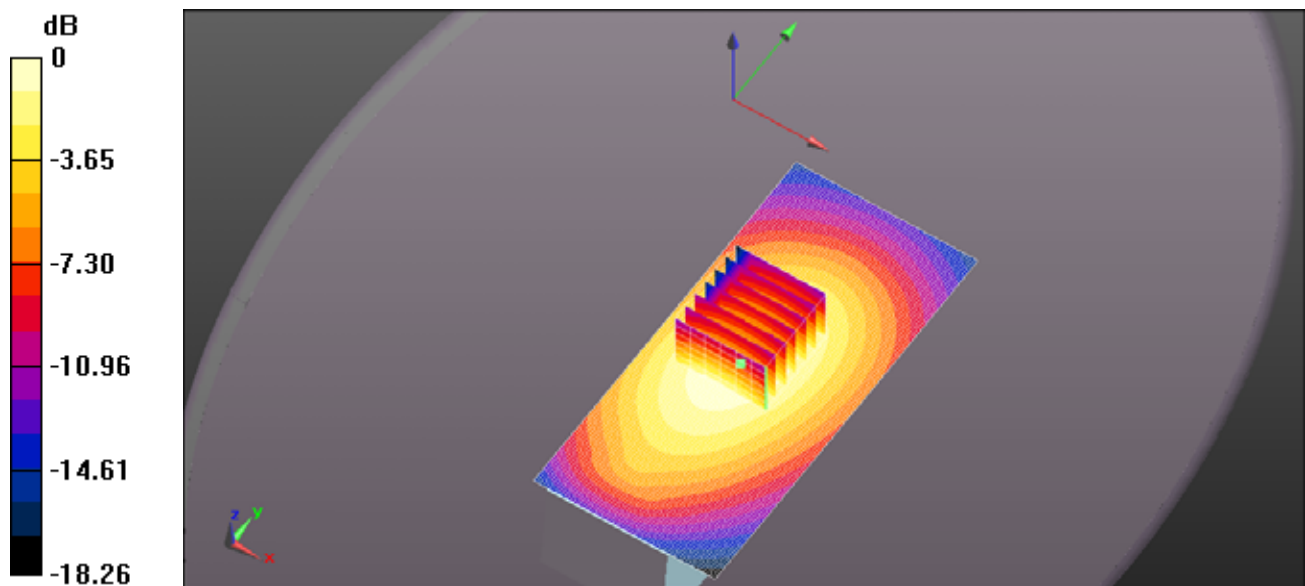
(7x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.43 V/m; Power Drift = -3.63 dB

Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 2.56 W/kg; SAR(10 g) = 1.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.75 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC73US 460MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 460 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 57.119$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 2.13 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

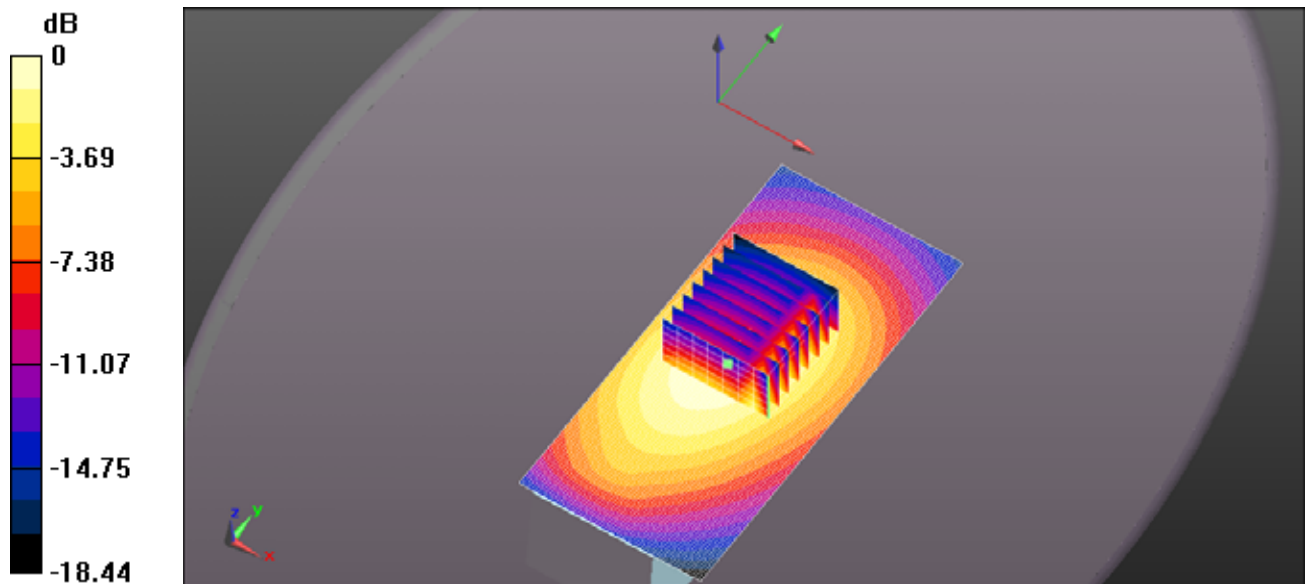
(8x8x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.79 V/m ; Power Drift = -3.60 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.952 W/kg ; SAR(10 g) = 0.583 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 2.13 W/kg = 3.29 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC73US 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 56.979$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 1.33 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

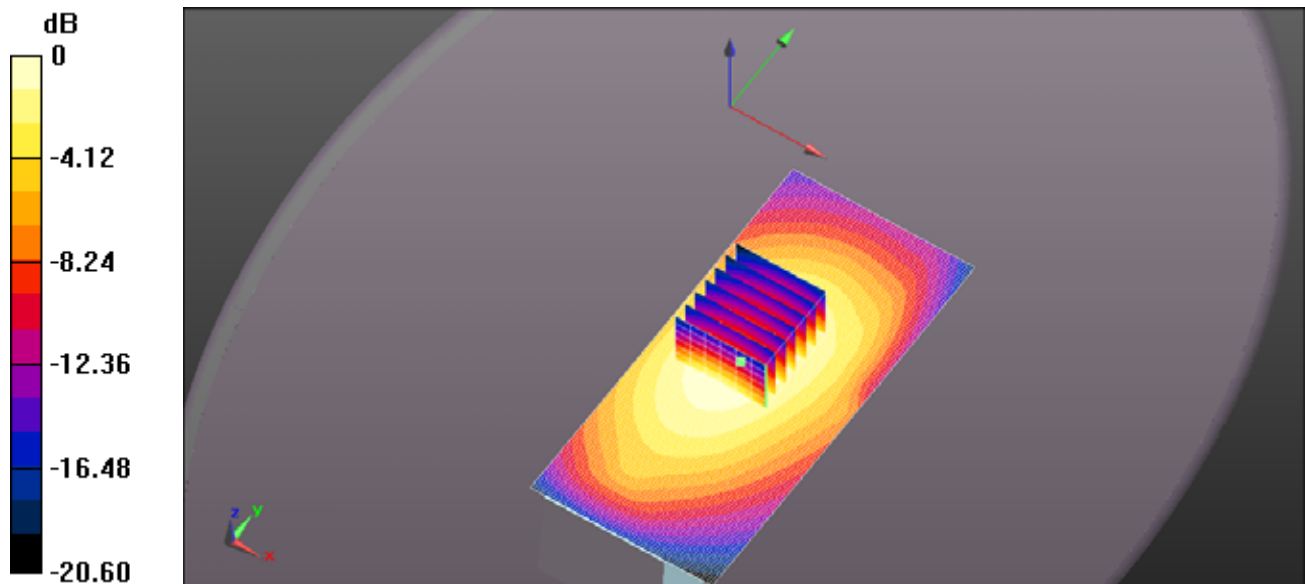
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.86 V/m ; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.572 W/kg

SAR(1 g) = 0.431 W/kg ; SAR(10 g) = 0.317 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.481 W/kg



0 dB = 1.33 W/kg = 1.23 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 165mm 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400 \text{ MHz}$; $\sigma = 0.844 \text{ S/m}$; $\epsilon_r = 58.438$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.69 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

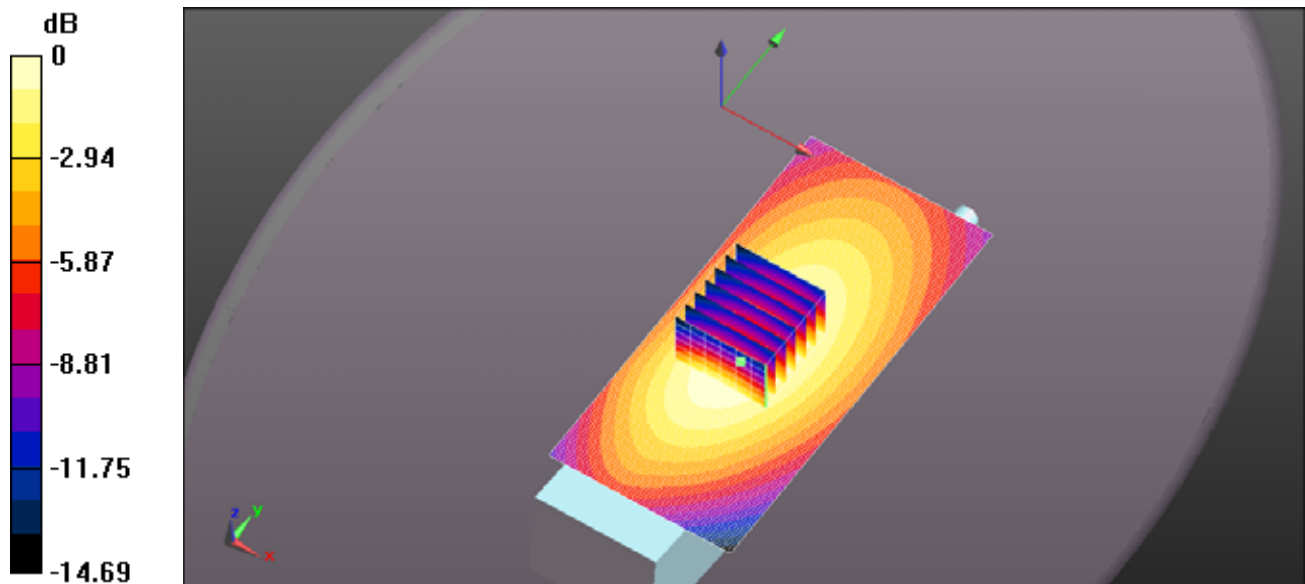
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 104.7 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 9.68 W/kg

SAR(1 g) = 7.39 W/kg ; SAR(10 g) = 5.54 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.19 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 165mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 57.569$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.24 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

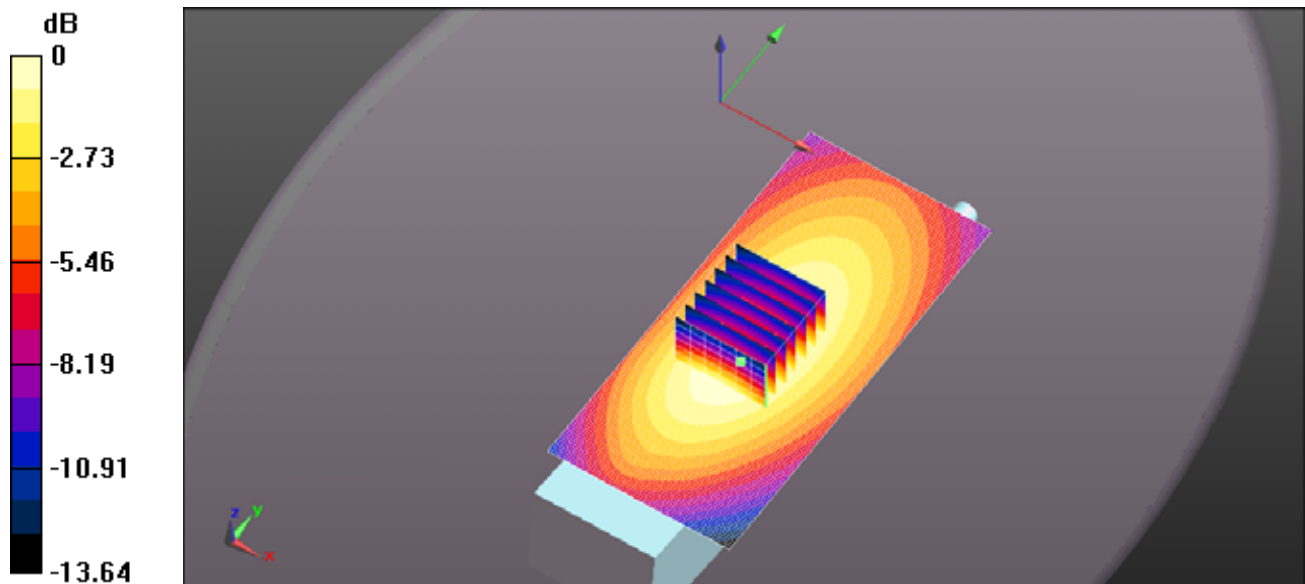
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 99.26 V/m ; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 9.00 W/kg

SAR(1 g) = 6.85 W/kg ; SAR(10 g) = 5.11 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.62 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 165mm 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 56.979$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 4.29 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

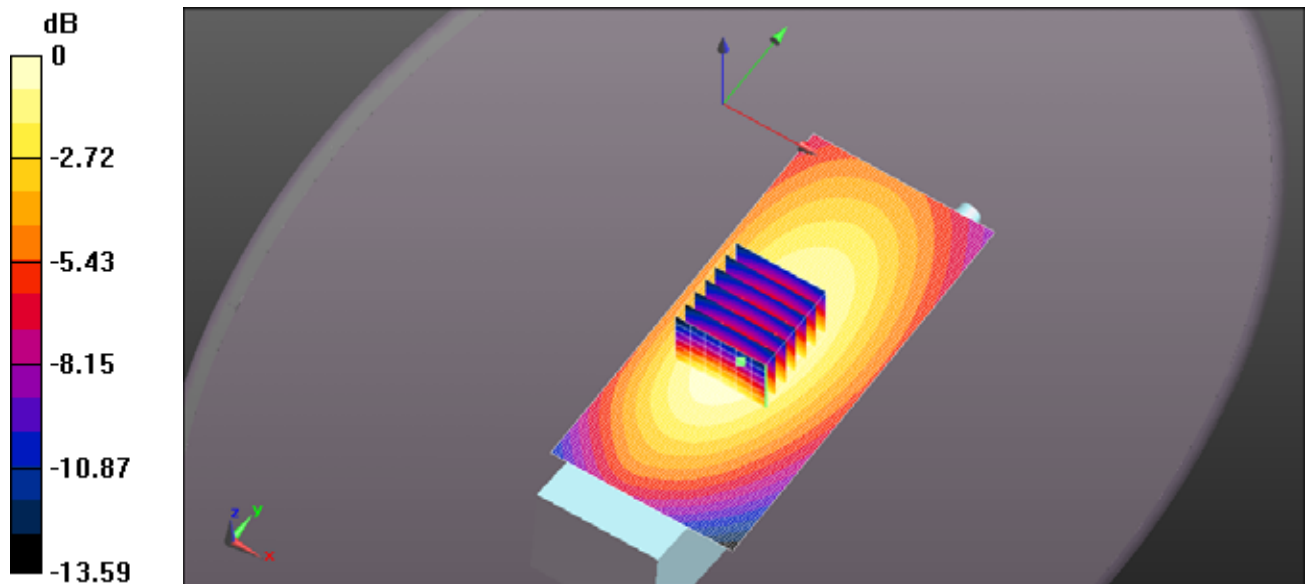
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 66.36 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.30 W/kg

SAR(1 g) = 3.27 W/kg ; SAR(10 g) = 2.43 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 3.63 W/kg



0 dB = 4.29 W/kg = 6.32 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 156mm 420MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 420 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 420 \text{ MHz}$; $\sigma = 0.859 \text{ S/m}$; $\epsilon_r = 58.135$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 8.95 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

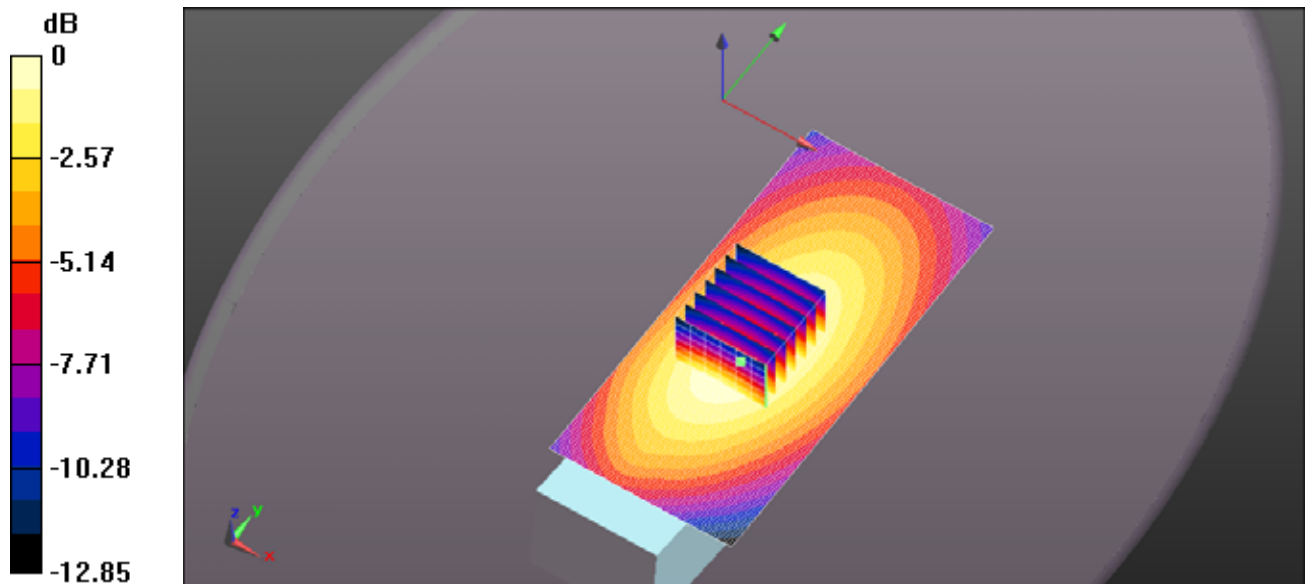
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 99.26 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 8.86 W/kg

SAR(1 g) = 6.77 W/kg ; SAR(10 g) = 5.07 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.50 W/kg



0 dB = 8.95 W/kg = 9.52 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 156mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 57.569$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.72 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

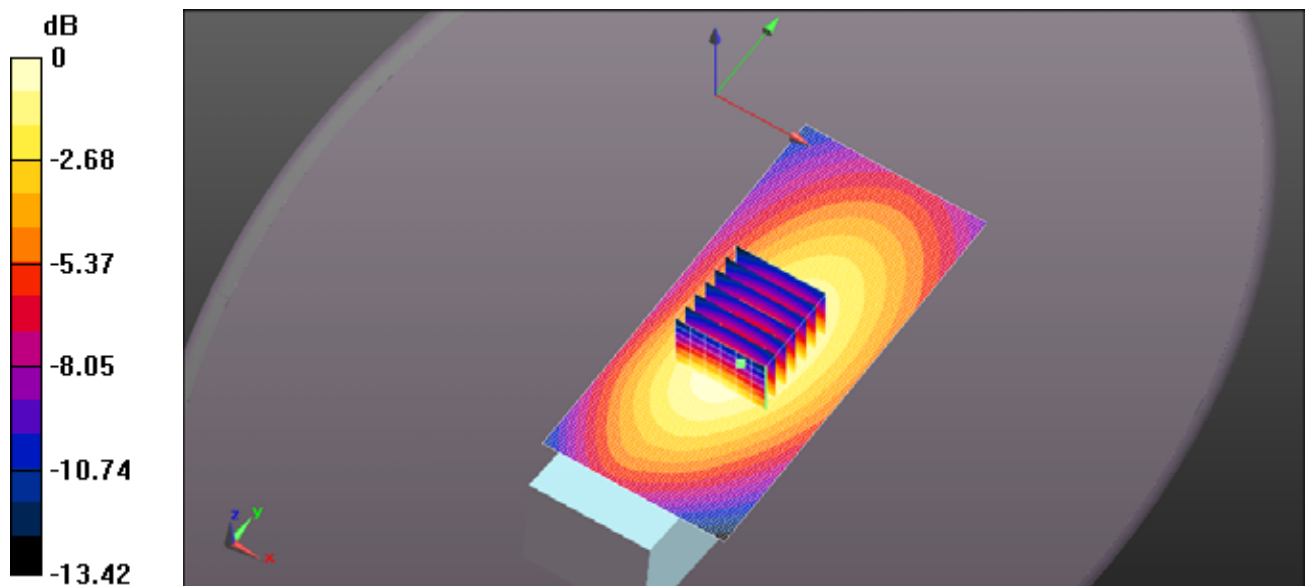
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 100.2 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 9.15 W/kg

SAR(1 g) = 6.88 W/kg ; SAR(10 g) = 5.15 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.62 W/kg



0 dB = 9.72 W/kg = 9.88 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 156mm 460MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 460 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 57.119$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 8.58 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

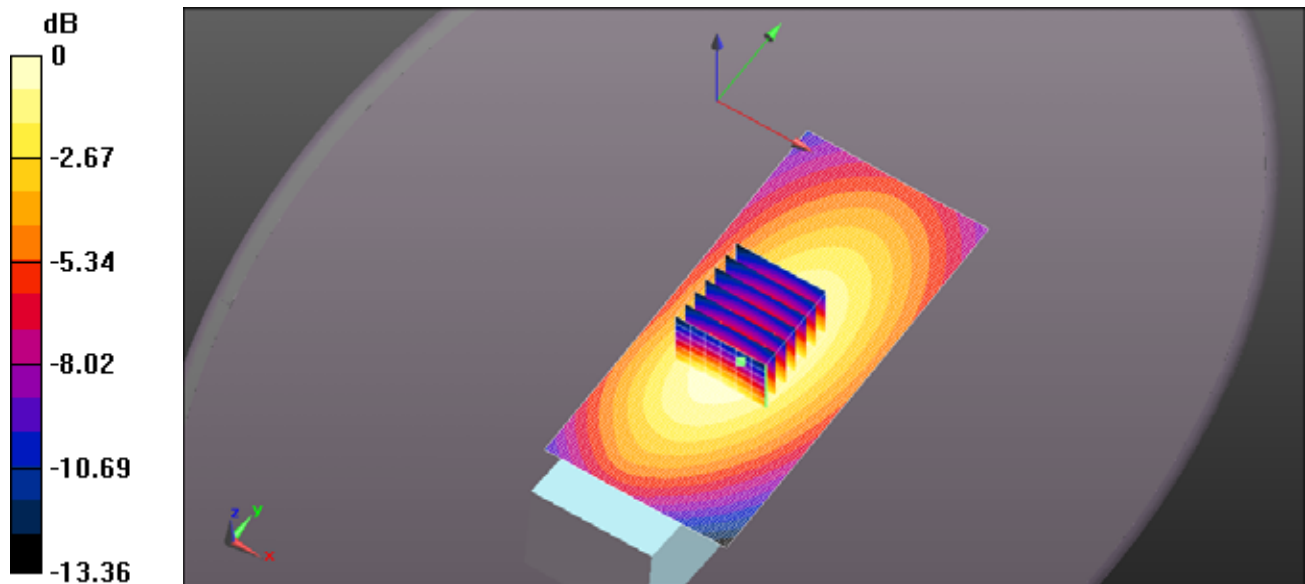
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 95.72 V/m ; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 8.62 W/kg

SAR(1 g) = 6.51 W/kg ; SAR(10 g) = 4.82 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.27 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 148mm 400MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 400 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 400 \text{ MHz}$; $\sigma = 0.844 \text{ S/m}$; $\epsilon_r = 58.438$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 4.93 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

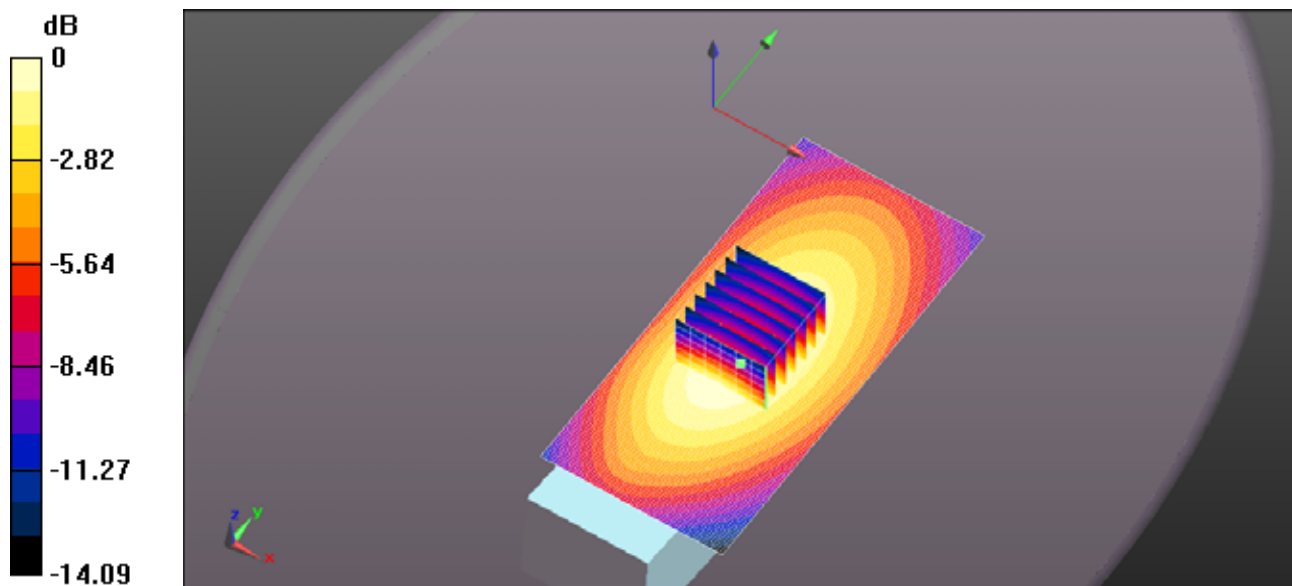
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 75.01 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 4.93 W/kg

SAR(1 g) = 3.75 W/kg ; SAR(10 g) = 2.8 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.17 W/kg



0 dB = 4.93 W/kg = 6.93 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 148mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 57.569$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 10.1 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

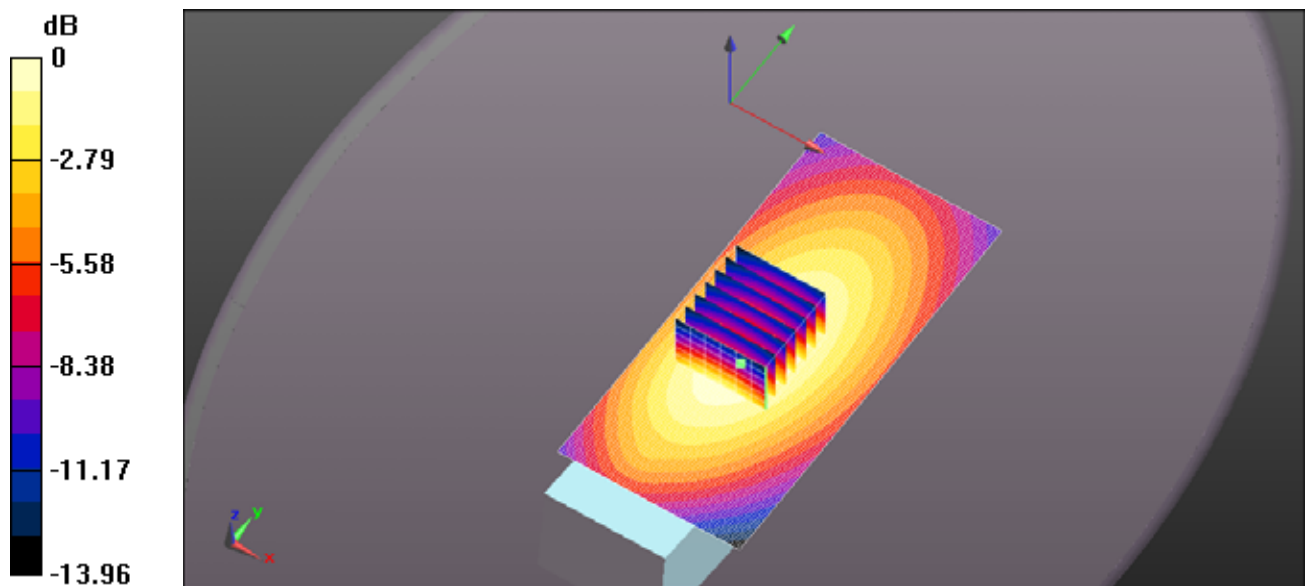
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 102.2 V/m ; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 9.87 W/kg

SAR(1 g) = 7.6 W/kg ; SAR(10 g) = 5.69 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.45 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 148mm 470MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 470 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 56.979$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 9.58 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

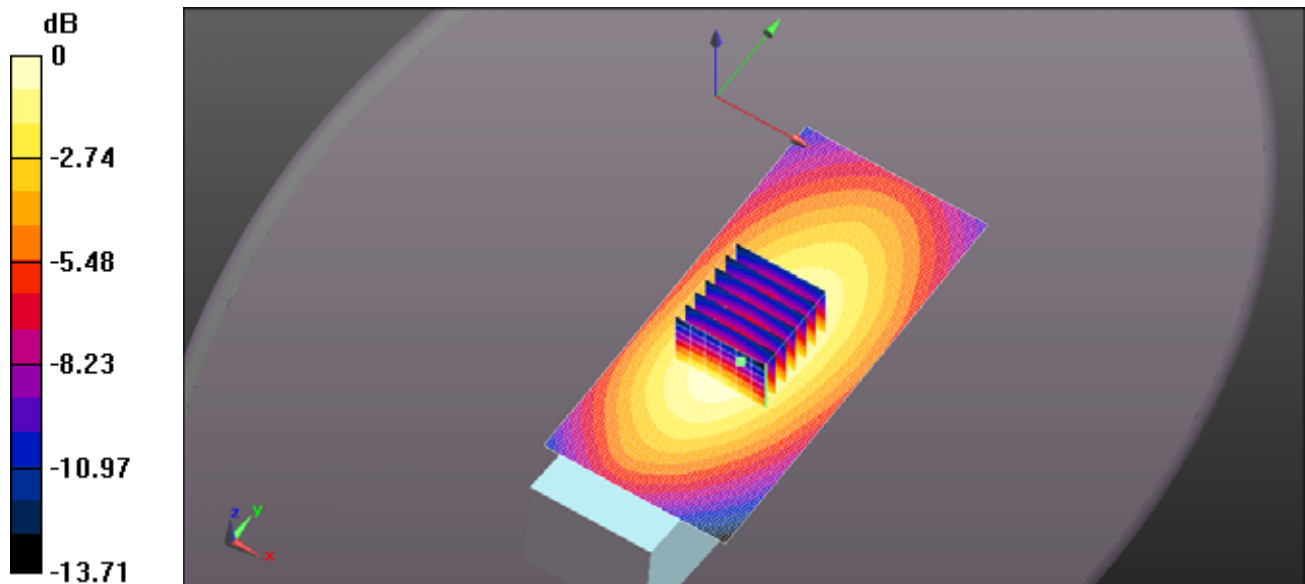
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 99.79 V/m ; Power Drift = -0.26 dB

Peak SAR (extrapolated) = 9.73 W/kg

SAR(1 g) = 7.28 W/kg ; SAR(10 g) = 5.35 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.19 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 142mm 420MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 420 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 420 \text{ MHz}$; $\sigma = 0.859 \text{ S/m}$; $\epsilon_r = 58.135$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 5.76 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

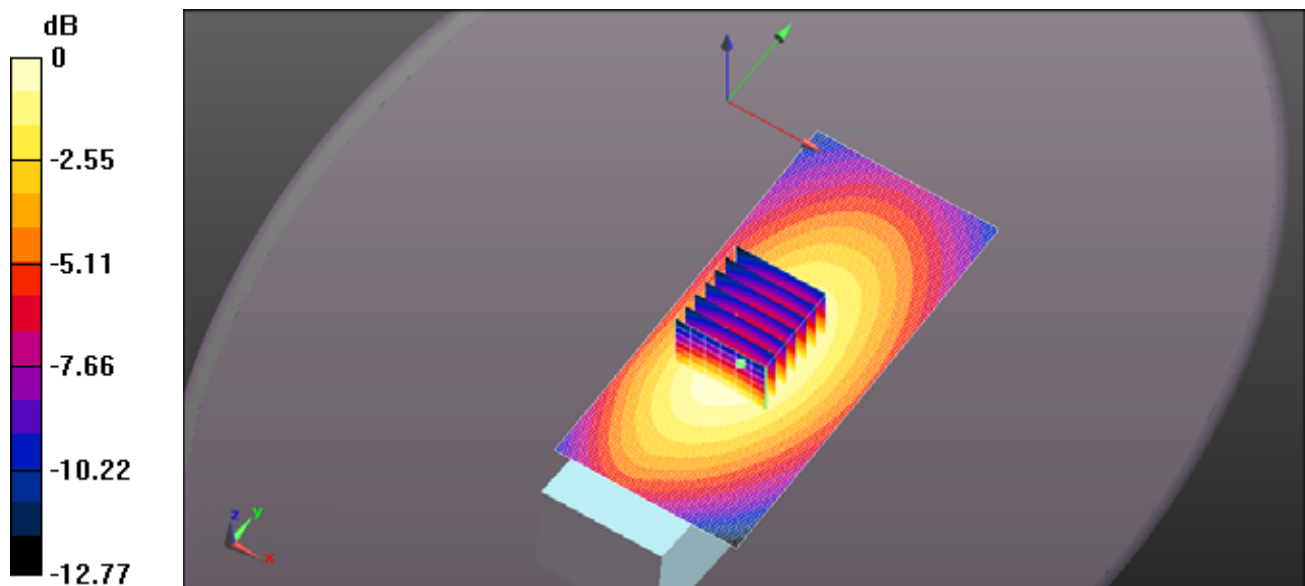
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 79.73 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 5.78 W/kg

SAR(1 g) = 4.4 W/kg ; SAR(10 g) = 3.28 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.85 W/kg



Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 142mm 440MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 440 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 57.569$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 7.22 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

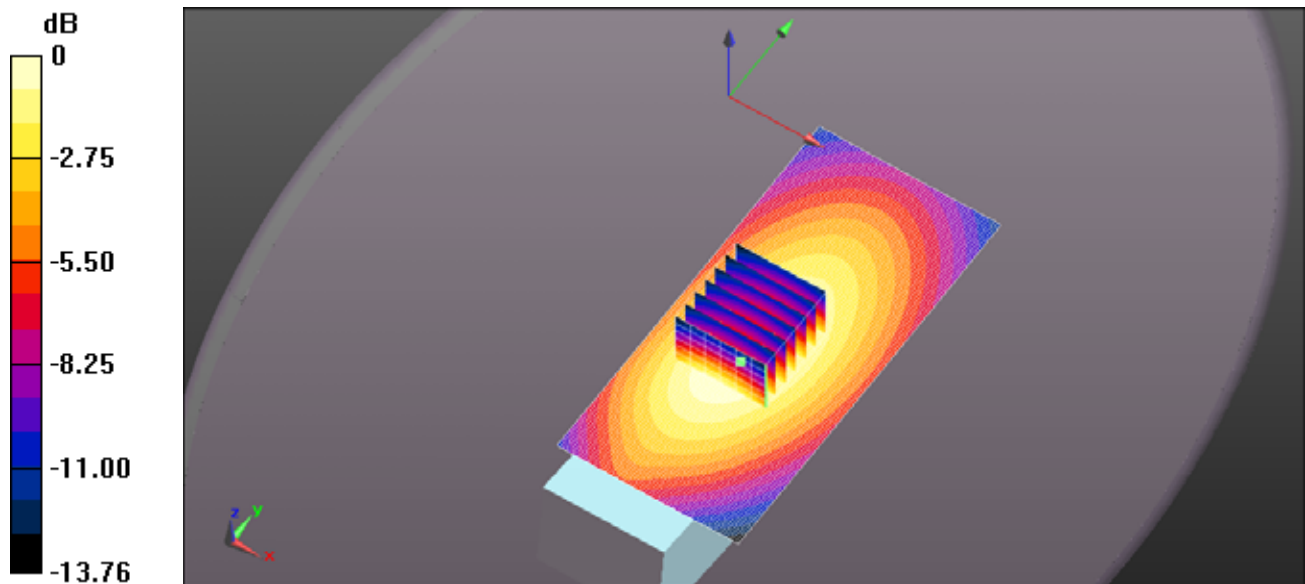
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 85.49 V/m ; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 7.13 W/kg

SAR(1 g) = 5.44 W/kg ; SAR(10 g) = 4.05 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 6.04 W/kg



0 dB = 7.22 W/kg = 8.59 dBW/kg

Test Laboratory: Ultratech Group of Labs

File Name: [ICOM-456Q FA-SC61UC 142mm 460MHz.da52:0](#)

DUT: IC-F62D; Type: UHF Transceiver; Serial: 11000202

Communication System: UID 0, CW (0); Frequency: 460 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.918 \text{ S/m}$; $\epsilon_r = 57.119$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section; Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3673; ConvF(10.51, 10.51, 10.51); 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
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Area Scan (61x131x1):

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

Maximum value of SAR (interpolated) = 10.2 W/kg

Configuration_Body_IC-F62D/Body Back, P=1W, d=0mm/Zoom Scan (5x5x7)

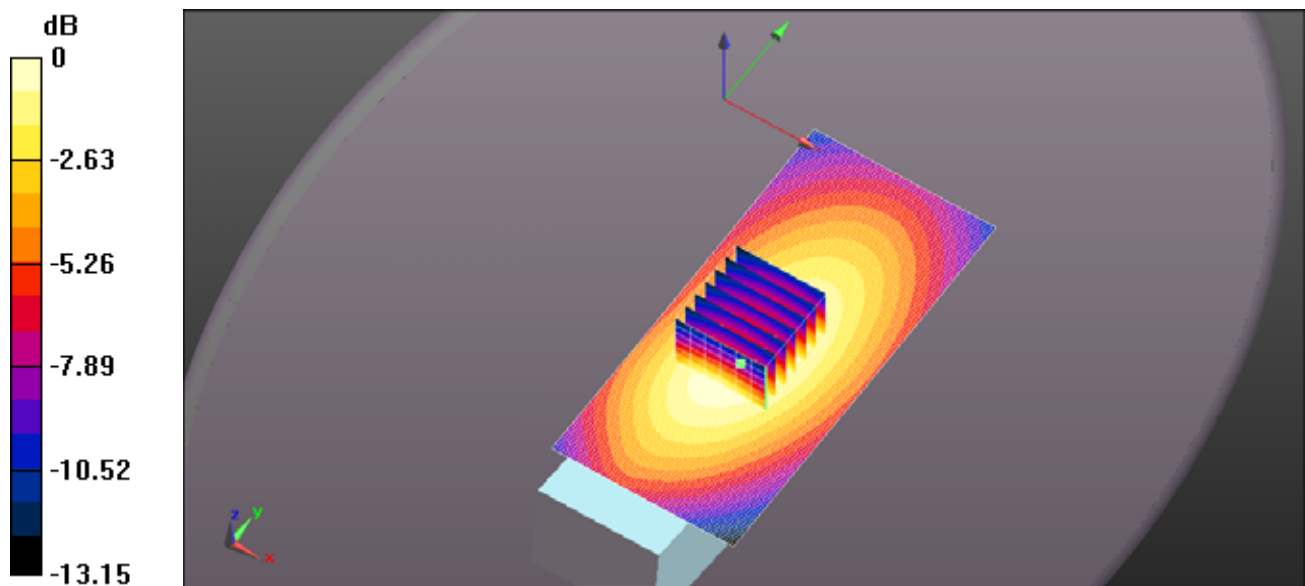
(7x7x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 103.1 V/m ; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 7.78 W/kg ; SAR(10 g) = 5.75 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.67 W/kg



0 dB = 10.2 W/kg = 10.10 dBW/kg