

EUT:	WSBUB-SDS	Work Order:	INTE5434
Customer:	Intel Corporation	Job Site:	EV08
Attendees:	Mike Lowe, Bill Jones	Customer Project:	None

TEST SPECIFICATIONS

Specification:	Method:
FCC 2.1093:2014 FCC 15.247:2014	IEEE Std 1528:2003 FCC KDB 447498 D01 v05r02 FCC KDB 248227 D01 v01r02 FCC KDB 616217 D04 v01r01 FCC 865664 D01 v01r03 and D02 v01r01

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

RESULTS

Test Configuration	Frequency Band	Transmit Frequency (MHz)	Transmit Channel	Data Rate (Mbps)	Channel Bandwidth (MHz)	Antenna Port	Mode	EUT Position	Power Drift During Test (dB)	Measured 1g SAR Level (mW/g)	Measured 10g SAR Level (mW/g)	Test #
Body	5.2	5240	48	6 Mbit	20	A	Tablet	Right Side	-0.14	0.53	0.18	101
Body	5.2	5240	48	6 Mbit	20	A	Tablet	Back	N/A	0.14	0.14	102
Body	5.2	5240	48	6 Mbit	20	A	Tent	Right Side	0.03	0.69	0.22	103a
Body	5.2	5180	36	6 Mbit	20	A	Tent	Back	-0.07	0.86	0.26	104a
Body	5.2	5240	48	6 Mbit	20	A	Tent	Back	-0.07	1.10	0.36	104b
Body	5.2	5230	44/48	MCS0	40	A	Tablet	Right Side	-0.15	0.56	0.19	117
Body	5.2	5230	44/48	MCS0	40	A	Tablet	Back	N/A	0.12	0.12	118
Body	5.2	5230	44/48	MCS0	40	A	Tent	Right Side	-0.13	0.53	0.17	119
Body	5.2	5190	36/40	MCS0	40	A	Tent	Back	-9.34	0.58	0.27	120a
Body	5.2	5230	44/48	MCS0	40	A	Tent	Back	0.04	1.00	0.34	120d
Body	5.2	5210	42	MCS0	80	A	Tablet	Right Side	-0.59	0.40	0.14	133
Body	5.2	5210	42	MCS0	80	A	Tablet	Back	N/A	0.10	0.10	134
Body	5.2	5210	42	MCS0	80	A	Tent	Right Side	-0.37	0.27	0.10	135
Body	5.2	5210	42	MCS0	80	A	Tent	Back	-0.05	0.72	0.32	136
Body	5.2	5220	44	6 Mbit	20	B	Tablet	Left Side	0.25	1.03	0.24	149a
Body	5.2	5220	44	6 Mbit	20	B	Tablet	Back	-0.42	0.14	0.13	150a
Body	5.2	5220	44	6 Mbit	20	B	Tent	Left Side	-0.19	1.02	0.28	151
Body	5.2	5180	36	6 Mbit	20	B	Tent	Left Side	0.15	0.43	0.10	151a
Body	5.2	5240	48	6 Mbit	20	B	Tent	Left Side	-0.12	0.85	0.25	151c
Body	5.2	5180	36	6 Mbit	20	B	Tent	Back	-0.02	0.59	0.29	152a
Body	5.2	5220	44	6 Mbit	20	B	Tent	Back	-0.70	0.81	0.27	152c
Body	5.2	5240	48	6 Mbit	20	B	Tent	Back	-0.12	1.31	0.47	152d
Body	5.2	5230	44/48	MCS0	40	B	Tablet	Left Side	-0.28	0.89	0.21	165
Body	5.2	5190	36/40	MCS0	40	B	Tablet	Left Side	-0.30	0.30	0.06	165a
Body	5.2	5230	44/48	MCS0	40	B	Tent	Left Side	0.09	0.72	0.21	167
Body	5.2	5230	44/48	MCS0	40	B	Tent	Back	-0.08	1.13	0.46	168
Body	5.2	5190	36/34	MCS0	40	B	Tent	Back	0.23	0.17	0.14	168a
Body	5.2	5210	42	MCS0	80	B	Tablet	Left Side	-0.12	0.33	0.08	181
Body	5.2	5210	42	MCS0	80	B	Tablet	Back	N/A	0.09	0.09	182
Body	5.2	5210	42	MCS0	80	B	Tent	Left Side	0.12	0.59	0.16	183
Body	5.2	5210	42	MCS0	80	B	Tent	Back	0.03	0.74	0.34	184

Tested By:	Ethan Schoonover	Room Temperature (°C):	23
Date:	3/31/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	29.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 101

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);
Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240 \text{ MHz}$; $\sigma = 5.317 \text{ S/m}$; $\epsilon_r = 48.693$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.196 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.183 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.900 W/kg

Body/Body/Reference scan (81x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.224 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.324 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

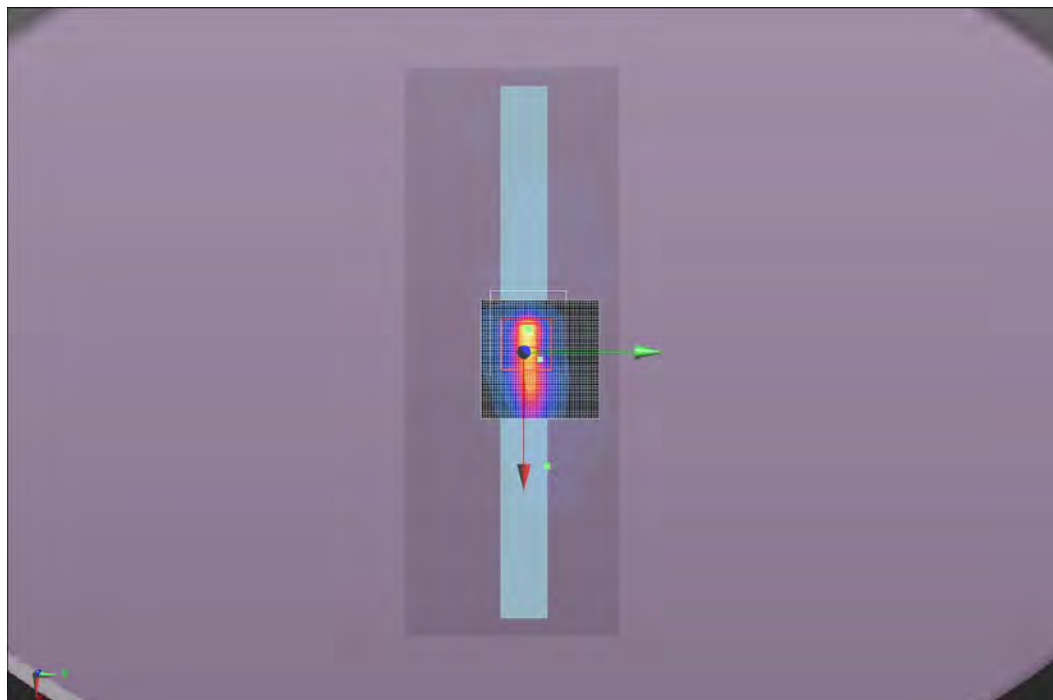
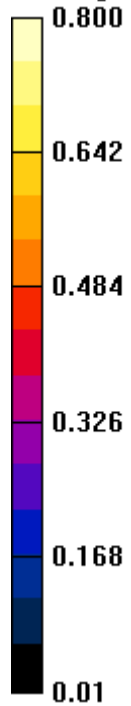
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.819 W/kg

Maximum value of SAR (measured) = 0.213 W/kg

Approved By

Test 101
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.4
Date:	3/31/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	30.8
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 102

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.317$ S/m; $\epsilon_r = 48.693$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.130 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

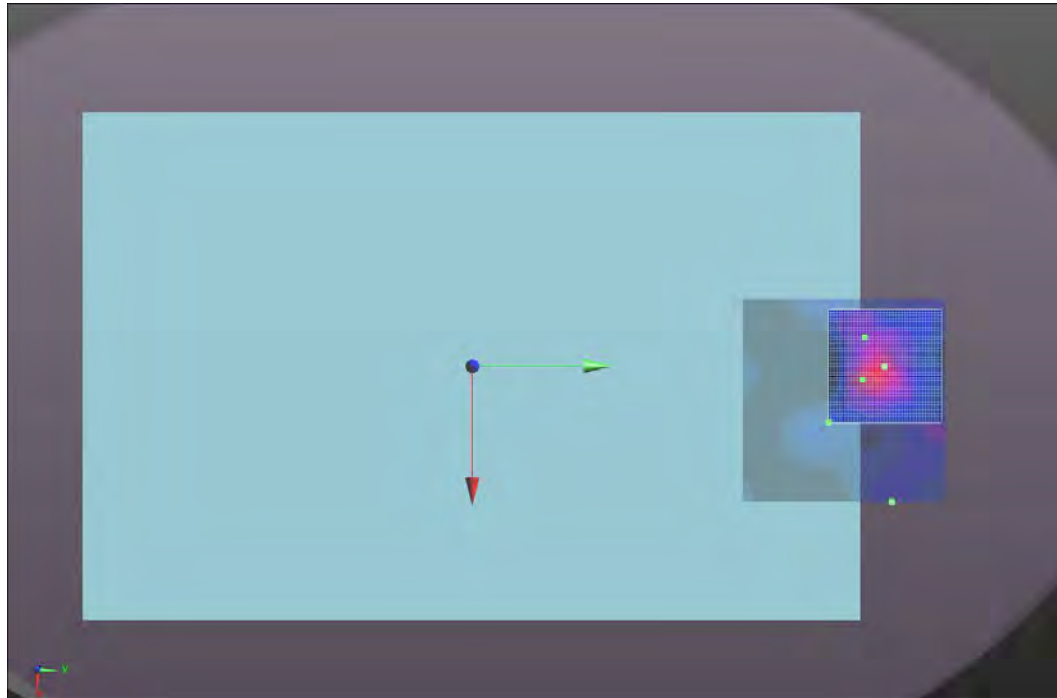
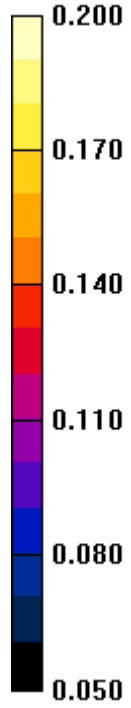
Maximum value of SAR (interpolated) = 0.136 W/kg

Approved By

WSTD.2013.09.09

Test 102
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.5
Date:	3/31/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	33.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 103a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.317$ S/m; $\epsilon_r = 48.693$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.807 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.687 W/kg; SAR(10 g) = 0.219 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.14 W/kg

Body/Body/Zoom Scan 2 (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.807 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.71 W/kg

SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.215 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.06 W/kg

Body/Body/Reference scan (81x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.192 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.013 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

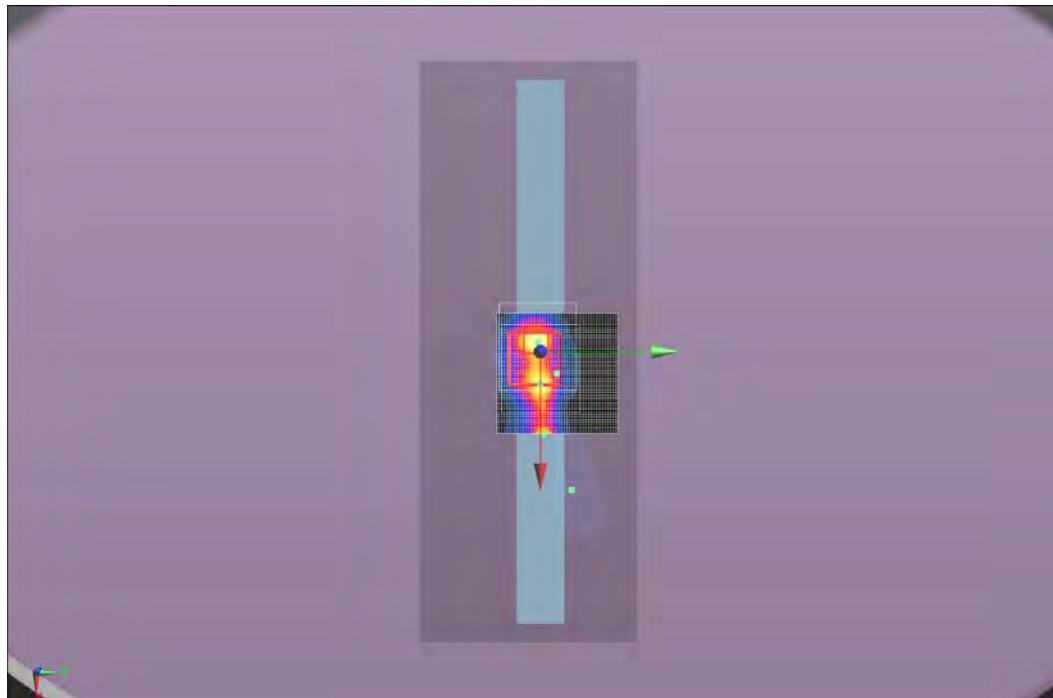
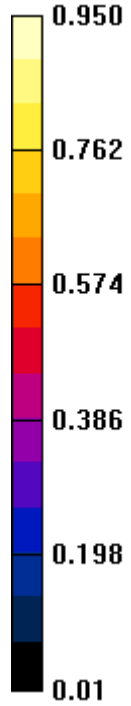
Maximum value of SAR (interpolated) = 0.949 W/kg

Maximum value of SAR (measured) = 0.261 W/kg



Approved By

Test 103a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.1
Date:	4/1/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	32.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 104a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5180 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.228$ S/m; $\epsilon_r = 48.912$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.889 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.22 W/kg

SAR(1 g) = 0.855 W/kg; SAR(10 g) = 0.264 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.73 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.25 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.086 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

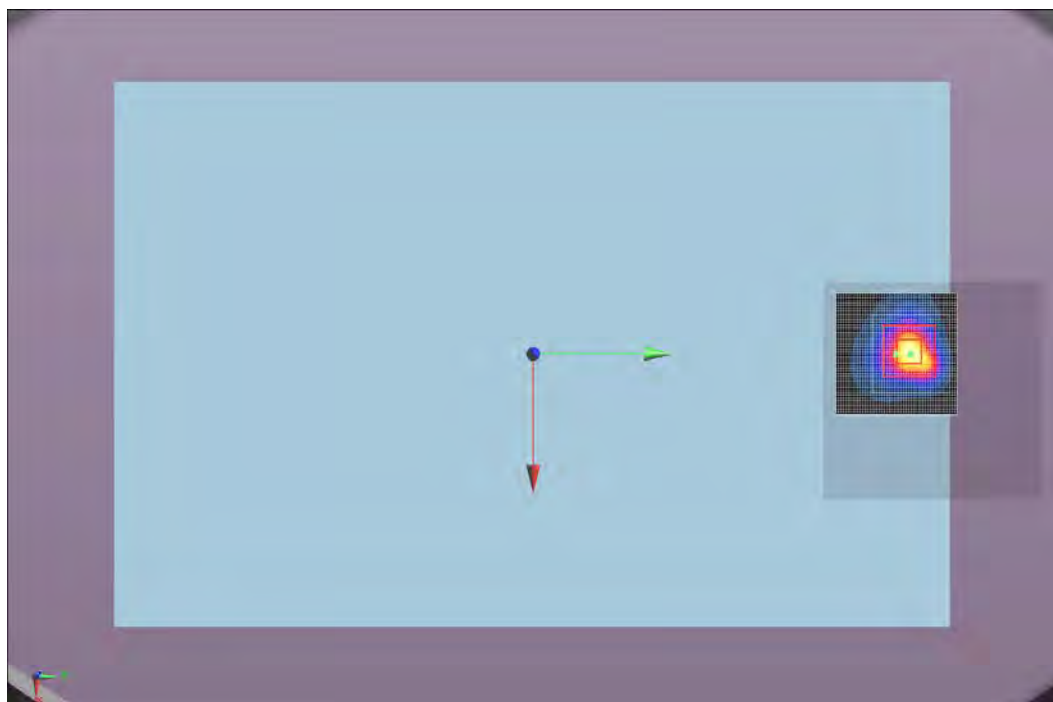
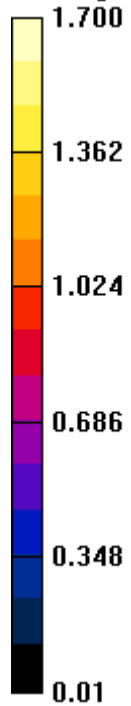
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.64 W/kg

Maximum value of SAR (measured) = 0.432 W/kg

 
Approved By

Test 104a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.8
Date:	4/9/2014	Liquid Temperature (°C):	23.1
Serial Number:	010	Humidity (%RH):	39.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Power level 14.0		

Test 104b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.923 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.355 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.10 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.19 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of Total (measured) = 8.975 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

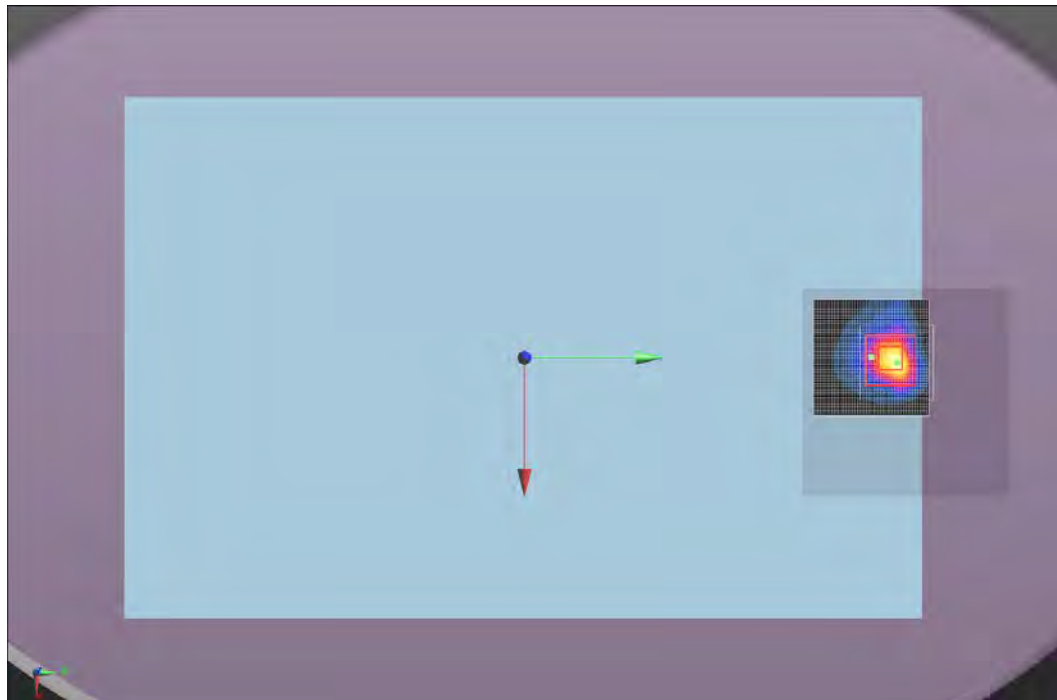
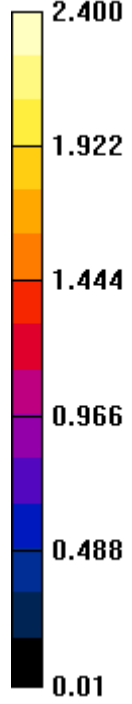
Maximum value of SAR (interpolated) = 2.31 W/kg

Maximum value of SAR (measured) = 0.425 W/kg




Approved By

Test 104b
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/2/2014	Liquid Temperature (°C):	22.2
Serial Number:	010	Humidity (%RH):	29.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 117

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.302$ S/m; $\epsilon_r = 48.73$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (11x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.198 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.58 W/kg

SAR(1 g) = 0.561 W/kg; SAR(10 g) = 0.193 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.18 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.296 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.106 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

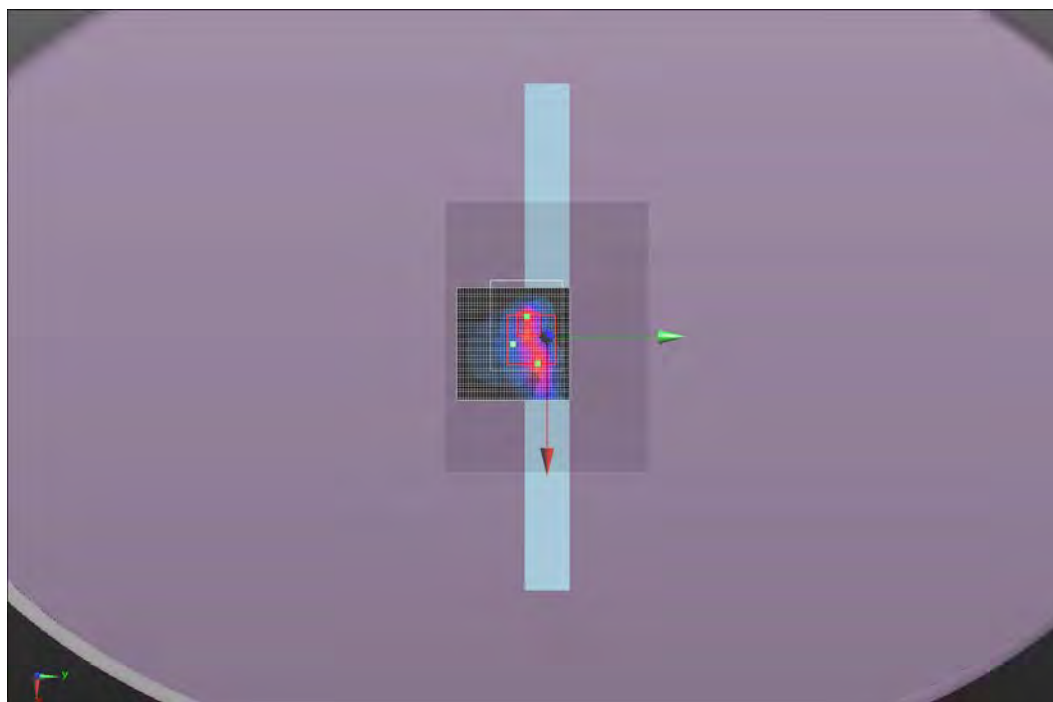
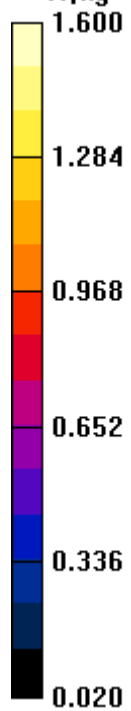
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.945 W/kg

Maximum value of SAR (measured) = 0.268 W/kg

 
Approved By

Test 117
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.6
Date:	4/2/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	33.5
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 118

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.302$ S/m; $\epsilon_r = 48.73$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.109 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

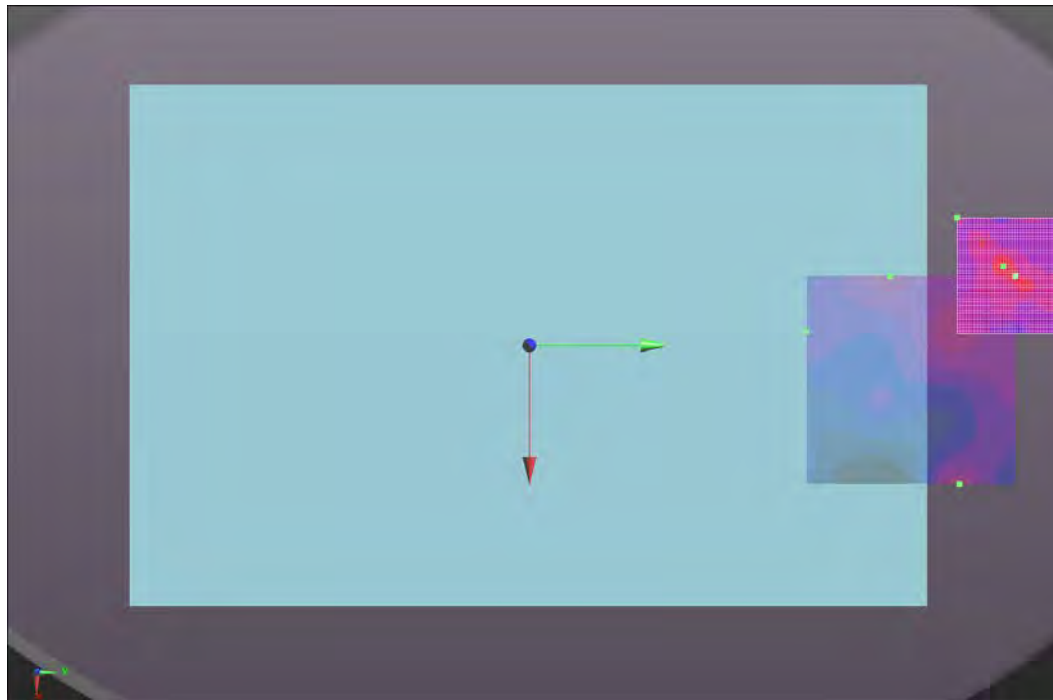
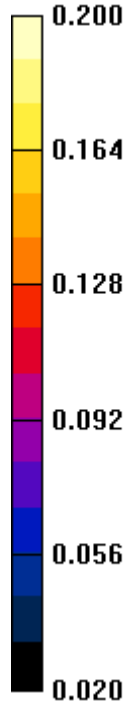
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.117 W/kg

Approved By

Test 118
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.8
Date:	4/1/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 119

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.302$ S/m; $\epsilon_r = 48.73$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.392 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.32 W/kg

SAR(1 g) = 0.515 W/kg; SAR(10 g) = 0.173 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 W/kg

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.21 W/kg

Body/Body/Zoom Scan 2 (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.392 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.174 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.14 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.246 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.176 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.895 W/kg

Body/Body/Area scan 2 (6x6x1): Measurement grid: dx=10mm, dy=10mm

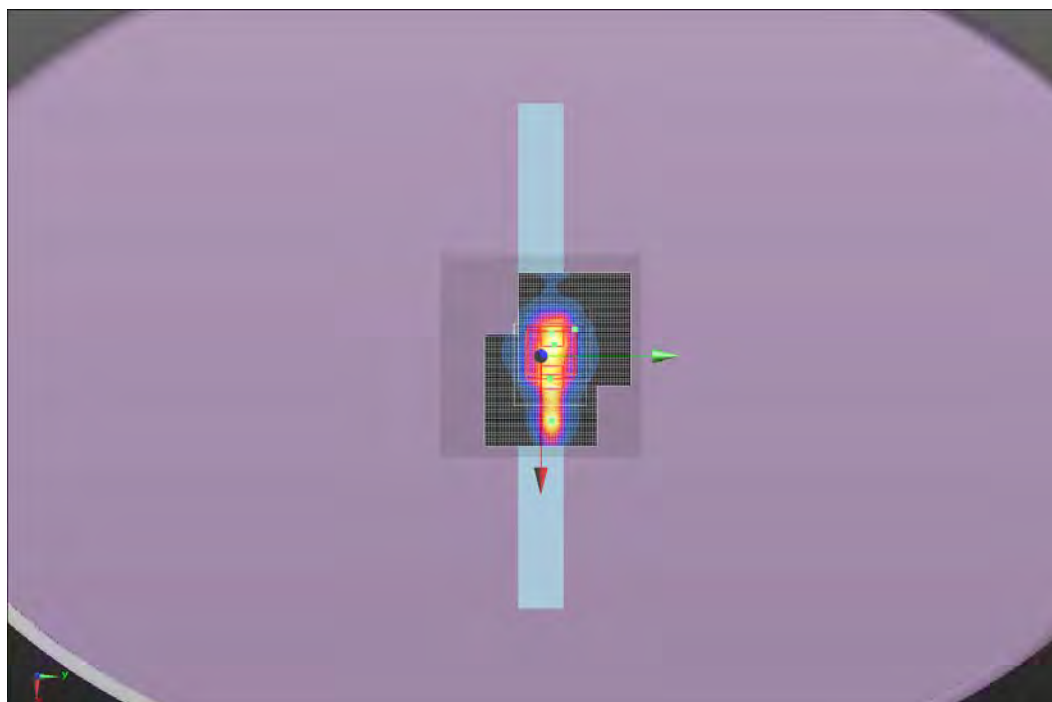
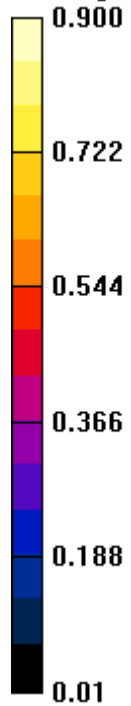
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.21 W/kg



Approved By

Test 119
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.3
Date:	4/2/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	35.5
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 120a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5190 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.243$ S/m; $\epsilon_r = 48.877$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.375 V/m; Power Drift = -9.34 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.273 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.04 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.237 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

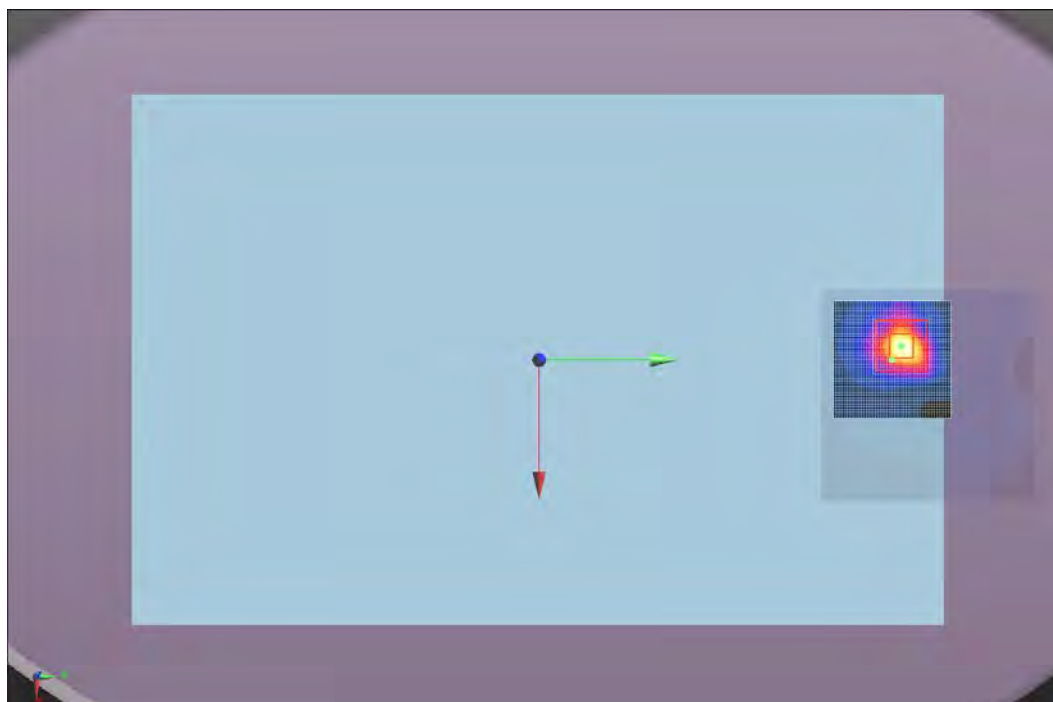
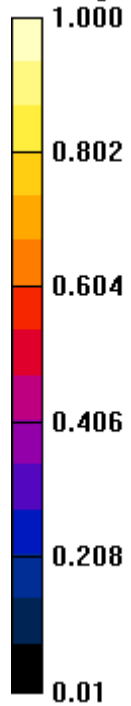
[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

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

 
Approved By

Test 120a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.7
Date:	4/9/2014	Liquid Temperature (°C):	21.8
Serial Number:	010	Humidity (%RH):	32
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	Power level 14.0		

Test 120d

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.268$ S/m; $\epsilon_r = 48.881$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.846 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.71 W/kg

SAR(1 g) = 0.995 W/kg; SAR(10 g) = 0.337 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.88 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.513 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

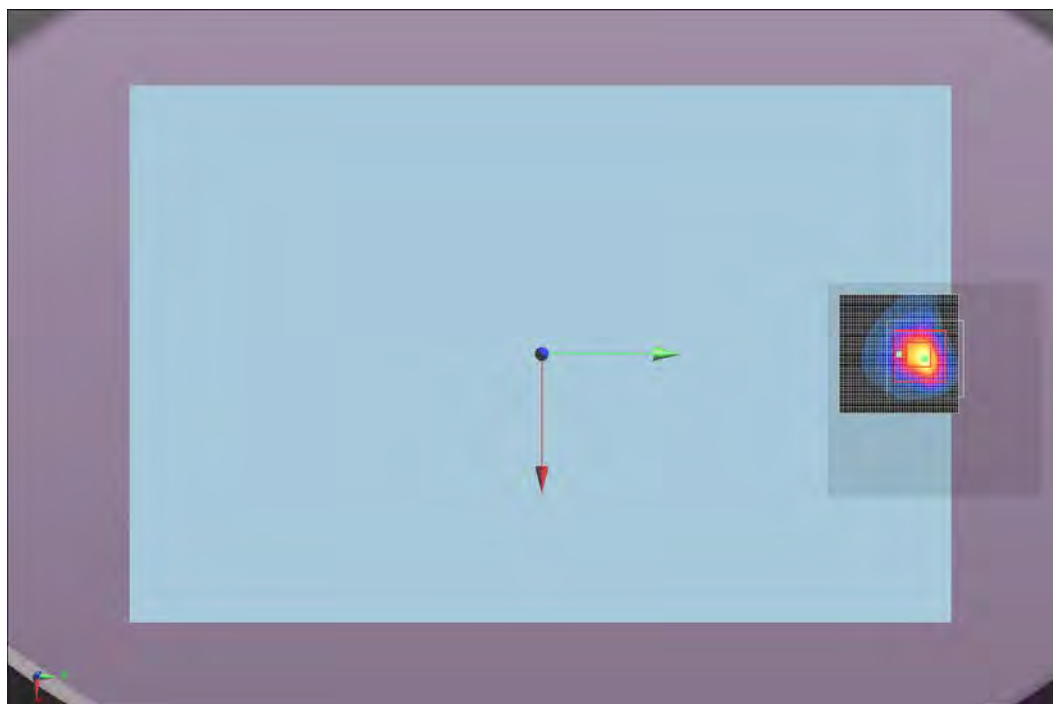
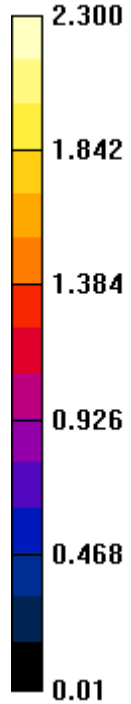
Maximum value of SAR (interpolated) = 2.23 W/kg

Maximum value of SAR (measured) = 0.382 W/kg



Approved By

Test 120d
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.9
Date:	4/3/2014	Liquid Temperature (°C):	20.9
Serial Number:	010	Humidity (%RH):	35.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 133

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 48.805$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.448 V/m; Power Drift = -0.59 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.141 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.849 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.119 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of Total (measured) = 5.899 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

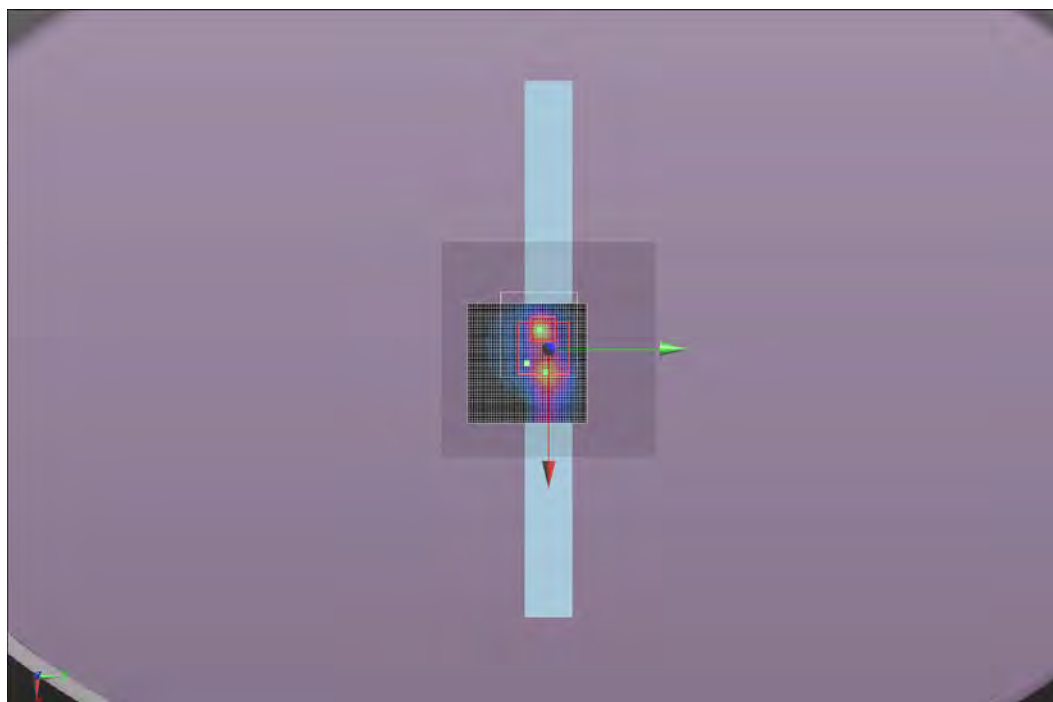
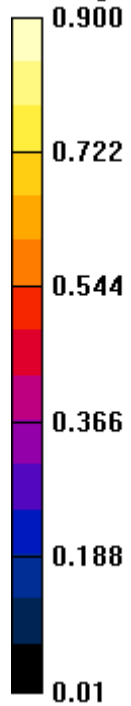
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.860 W/kg

Maximum value of SAR (measured) = 0.183 W/kg

 
Approved By

Test 133
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 134

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 48.805$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0989 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

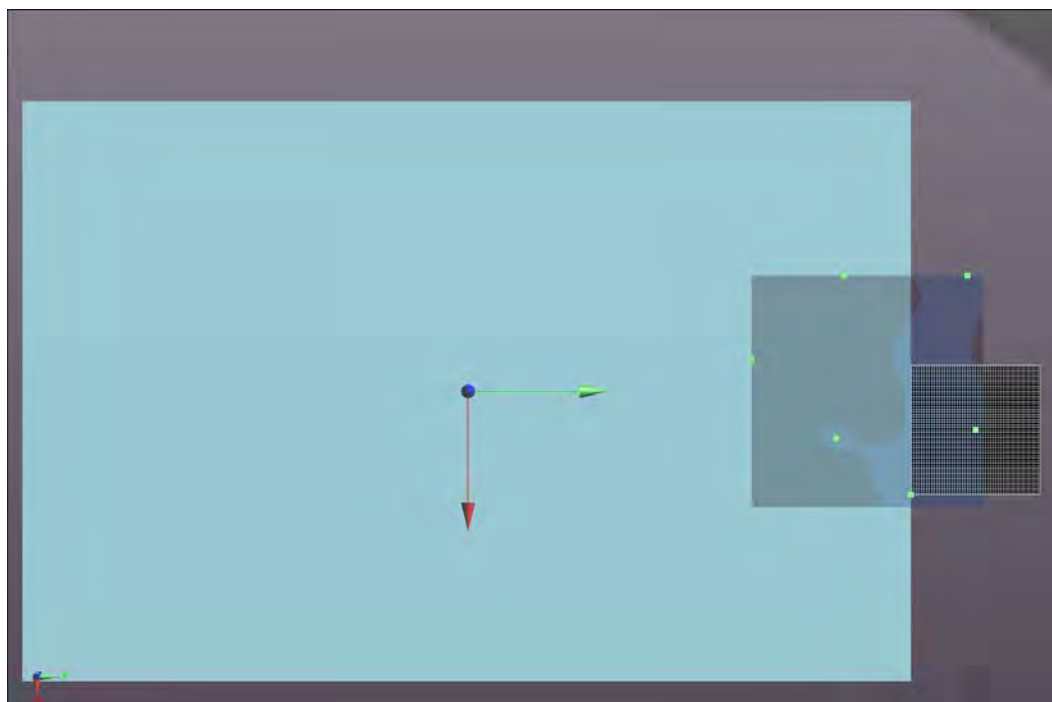
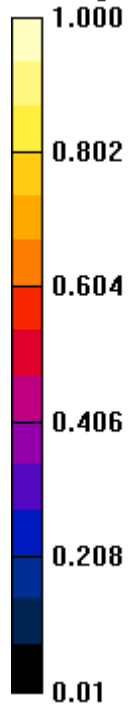
Maximum value of SAR (interpolated) = 0.100 W/kg

Approved By

WSTD.2013.09.09

Test 134
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.9
Date:	4/3/2014	Liquid Temperature (°C):	20.9
Serial Number:	010	Humidity (%RH):	35.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 135

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 48.805$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x10x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.379 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.102 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.546 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0989 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.185 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

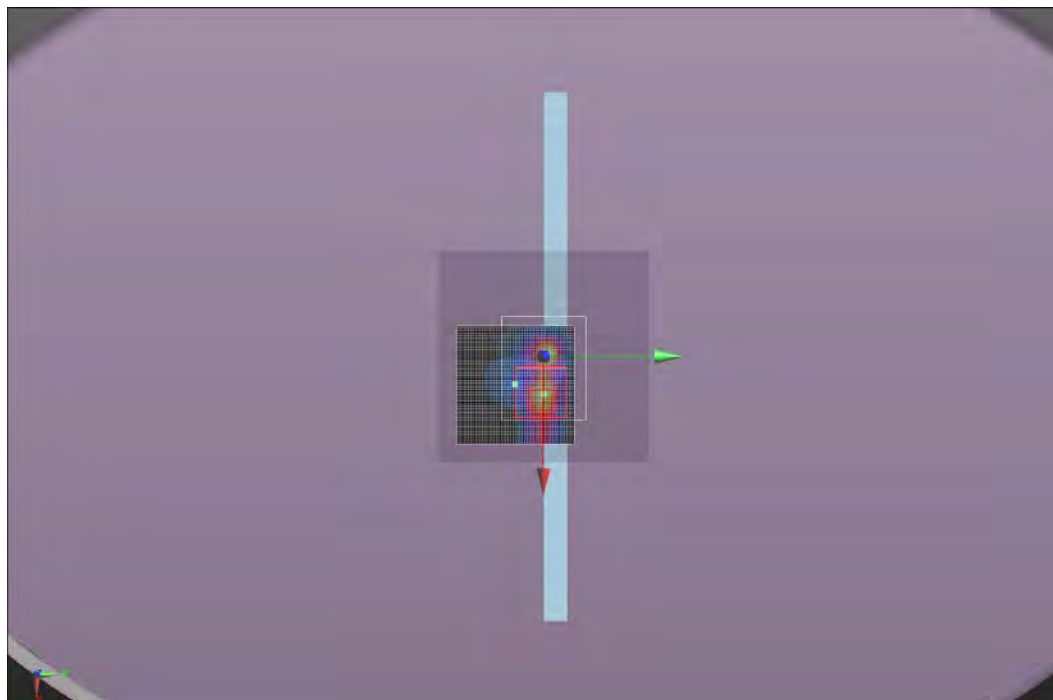
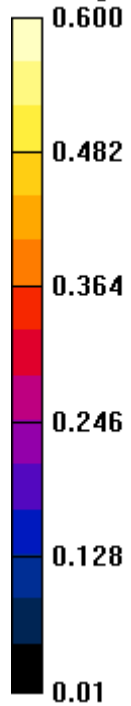
Maximum value of SAR (interpolated) = 0.573 W/kg

Maximum value of SAR (measured) = 0.142 W/kg

Approved By

Test 135
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/2/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	34
Configuration:	INTE5434-1	Bar. Pressure (mb):	1017
Comments:	None		

Test 136

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.273$ S/m; $\epsilon_r = 48.805$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.559 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.45 W/kg

SAR(1 g) = 0.718 W/kg; SAR(10 g) = 0.319 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.316 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.944 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

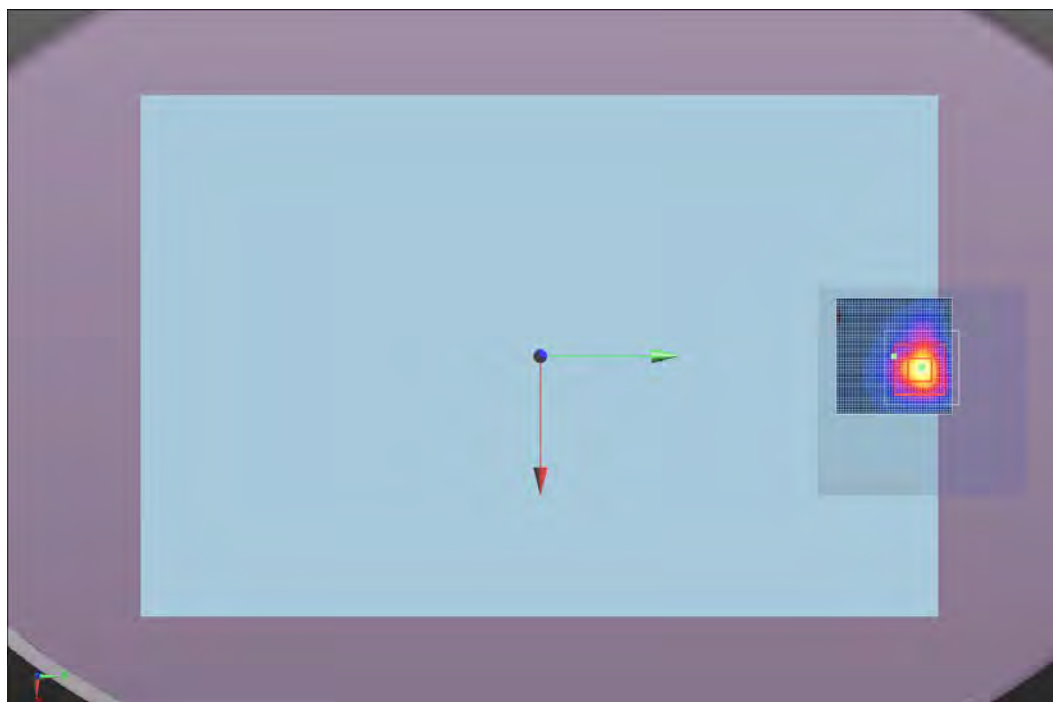
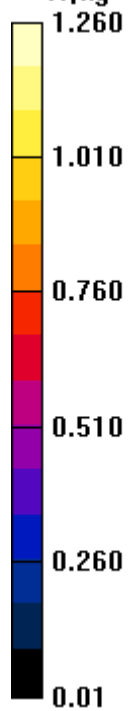
Maximum value of SAR (interpolated) = 1.26 W/kg

Maximum value of SAR (measured) = 0.521 W/kg



Approved By

Test 136
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	21.9
Date:	4/3/2014	Liquid Temperature (°C):	20.4
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 149a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5220 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.288$ S/m; $\epsilon_r = 48.768$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.423 V/m; Power Drift = 0.25 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.244 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.48 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.215 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 1.303 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.07 W/kg

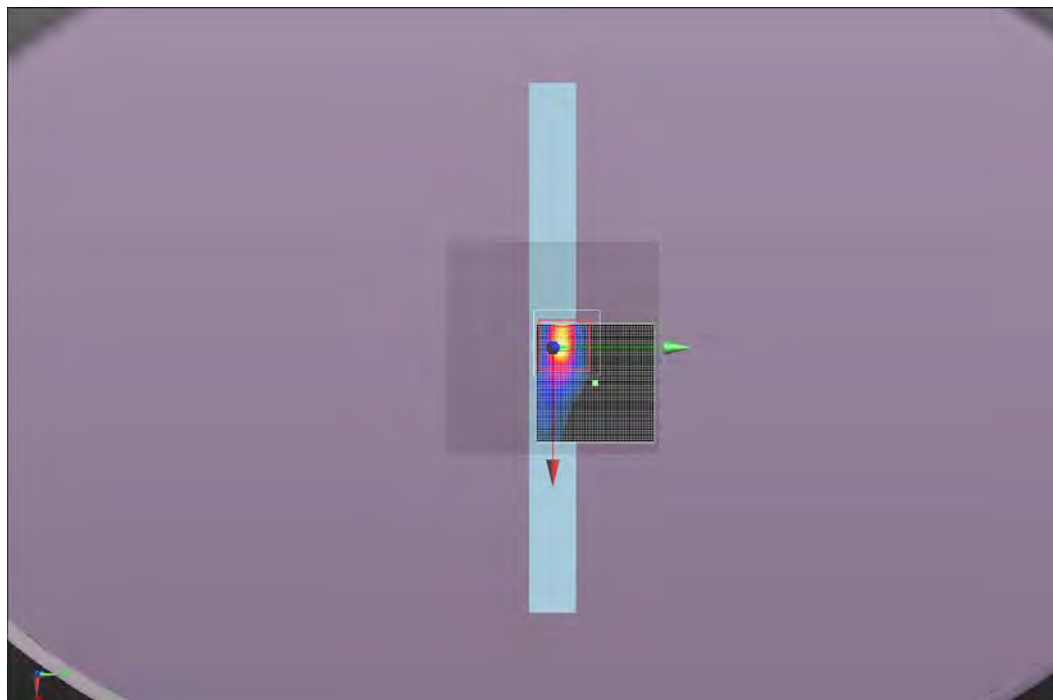
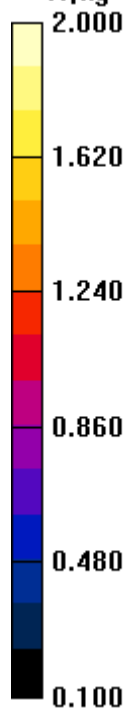
Maximum value of SAR (measured) = 0.00898 W/kg



Approved By

Test 149a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/3/2014	Liquid Temperature (°C):	20.4
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 150a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5220 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.288$ S/m; $\epsilon_r = 48.768$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.852 V/m; Power Drift = -0.42 dB

Peak SAR (extrapolated) = 0.304 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.126 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.249 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.138 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.687 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

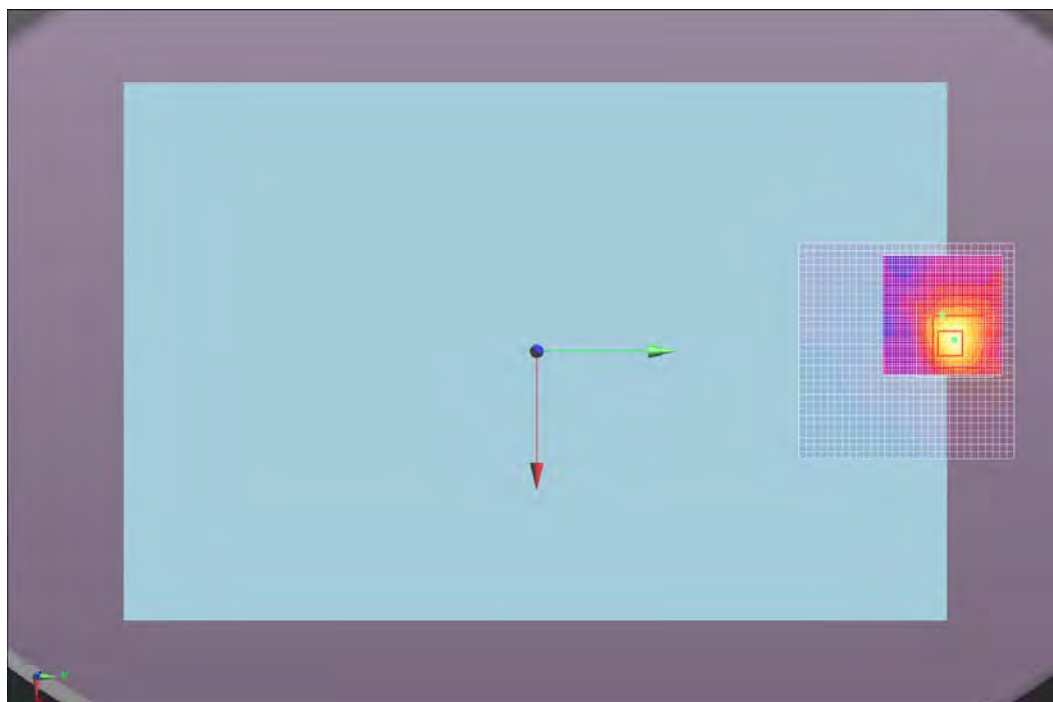
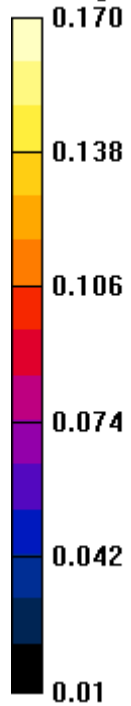
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.164 W/kg



Approved By

Test 150a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.8
Date:	4/4/2014	Liquid Temperature (°C):	20.7
Serial Number:	010	Humidity (%RH):	36.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 151

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5220 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.23$ S/m; $\epsilon_r = 48.903$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.240 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 5.03 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.280 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.10 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.251 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.258 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

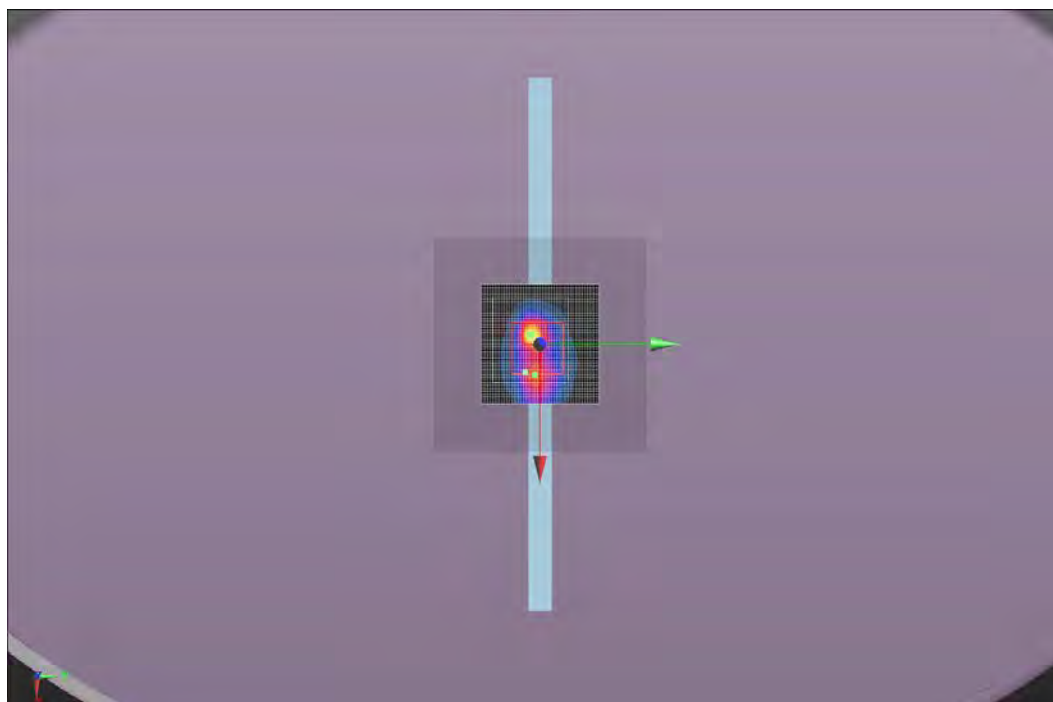
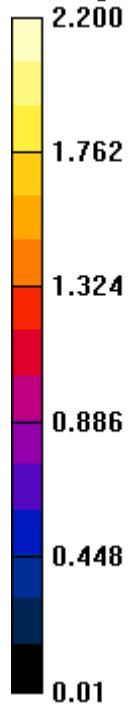
[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Maximum value of SAR (measured) = 0.448 W/kg

 
Approved By

Test 151
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.8
Date:	4/4/2014	Liquid Temperature (°C):	20.7
Serial Number:	010	Humidity (%RH):	36.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 151a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5180 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.17$ S/m; $\epsilon_r = 49.03$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.738 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.101 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.944 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0693 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.440 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.553 W/kg

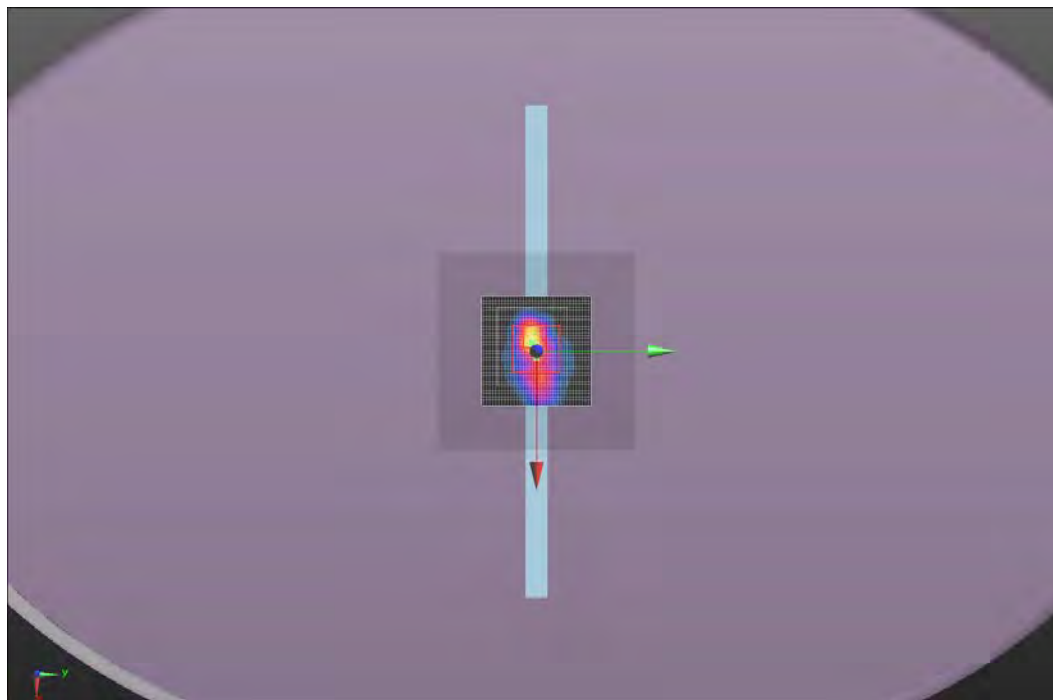
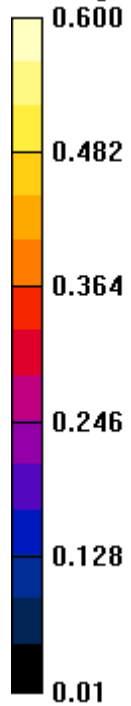
Maximum value of SAR (measured) = 0.153 W/kg

Approved By

Test 151a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	26.7
Date:	4/10/2014	Liquid Temperature (°C):	23.4
Serial Number:	010	Humidity (%RH):	26.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 14.0		

Test 151c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.876 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 4.16 W/kg

SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.248 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.94 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.220 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.763 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

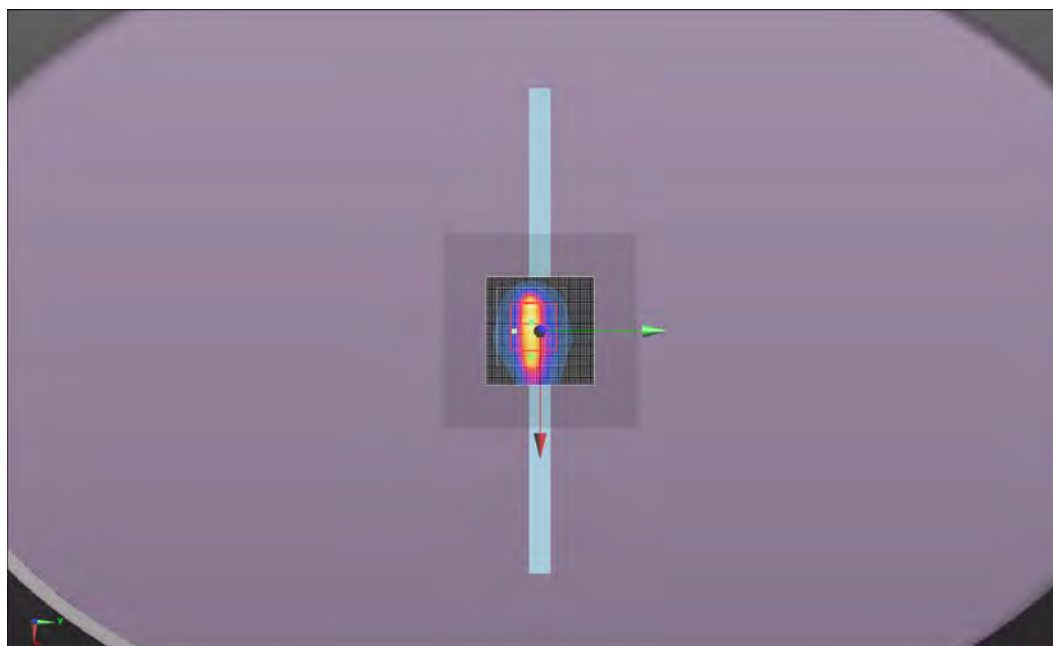
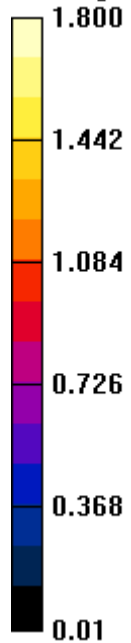
Maximum value of SAR (interpolated) = 1.71 W/kg

Maximum value of SAR (measured) = 0.318 W/kg

Approved By

Test 151c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.8
Date:	4/4/2014	Liquid Temperature (°C):	20.7
Serial Number:	010	Humidity (%RH):	36.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 152a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5180 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5180$ MHz; $\sigma = 5.17$ S/m; $\epsilon_r = 49.03$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.015 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.55 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.290 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.13 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.08 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.09 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

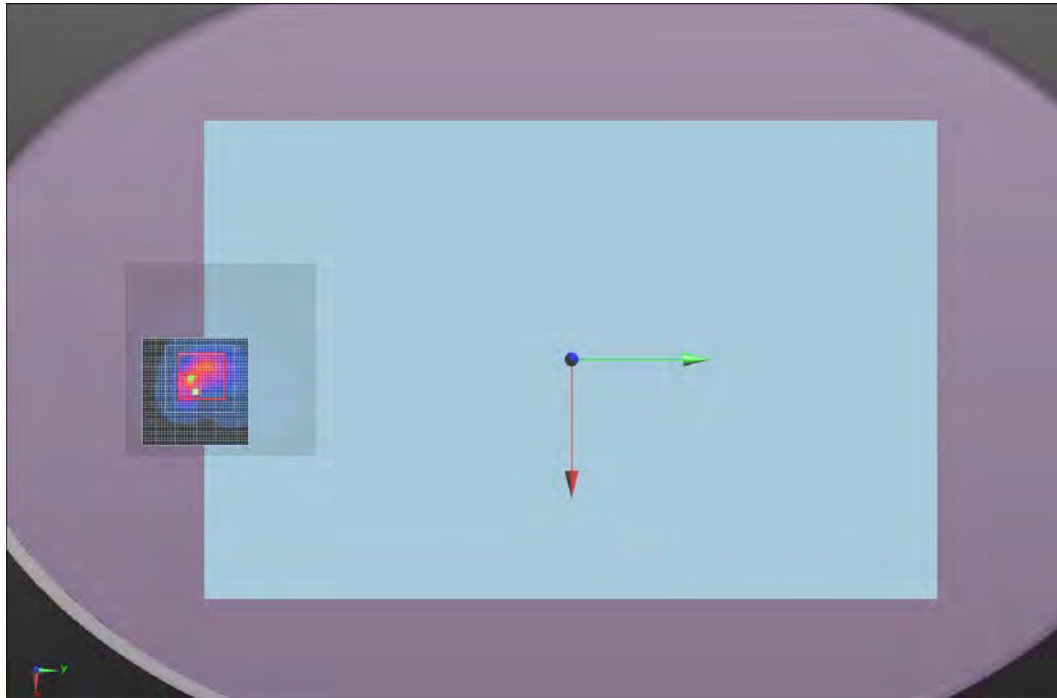
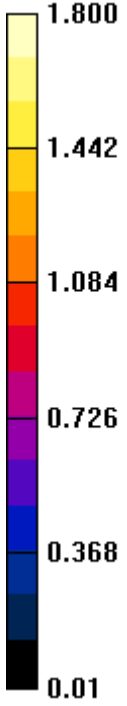
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.19 W/kg

Maximum value of SAR (measured) = 0.527 W/kg

 
Approved By

Test 152a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/10/2014	Liquid Temperature (°C):	22.8
Serial Number:	010	Humidity (%RH):	34.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	Power level 14.0		

Test 152c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5220 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5220$ MHz; $\sigma = 5.257$ S/m; $\epsilon_r = 48.911$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.007 V/m; Power Drift = -0.70 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.270 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.59 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 6.721 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

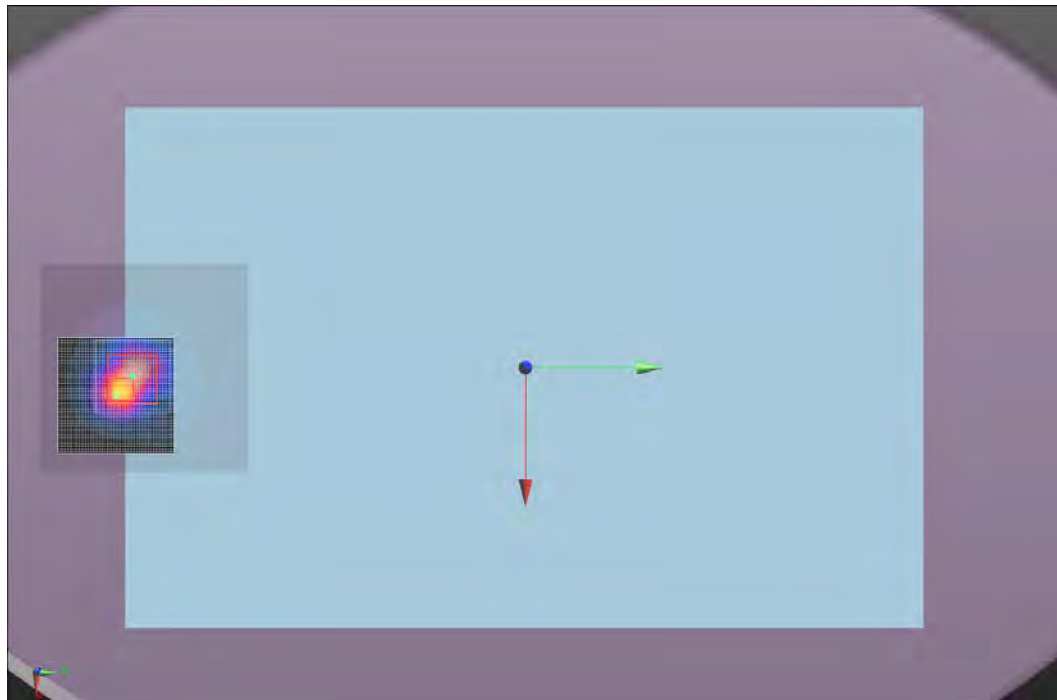
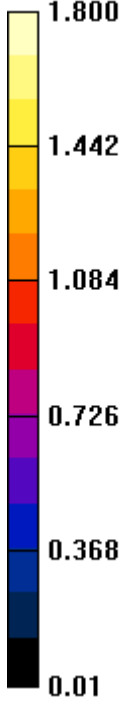
Maximum value of SAR (interpolated) = 1.74 W/kg

Maximum value of SAR (measured) = 0.237 W/kg

Approved By

Test 152c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/10/2014	Liquid Temperature (°C):	22.8
Serial Number:	010	Humidity (%RH):	34.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	Power level 14.0		

Test 152d

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.024 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 5.38 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.470 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.54 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.63 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.616 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

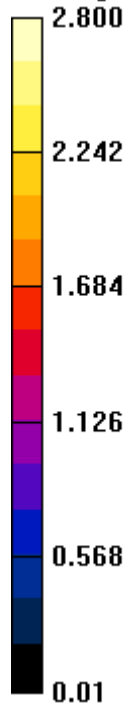
Maximum value of SAR (interpolated) = 2.48 W/kg

Maximum value of SAR (measured) = 0.392 W/kg

Approved By

Test 152d
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/3/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 165

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.302$ S/m; $\epsilon_r = 48.73$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.059 V/m; Power Drift = -0.28 dB

Peak SAR (extrapolated) = 4.48 W/kg

SAR(1 g) = 0.886 W/kg; SAR(10 g) = 0.214 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.01 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.316 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.192 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.28 W/kg

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Area scan 2 (6x6x1): Measurement grid: dx=10mm, dy=10mm

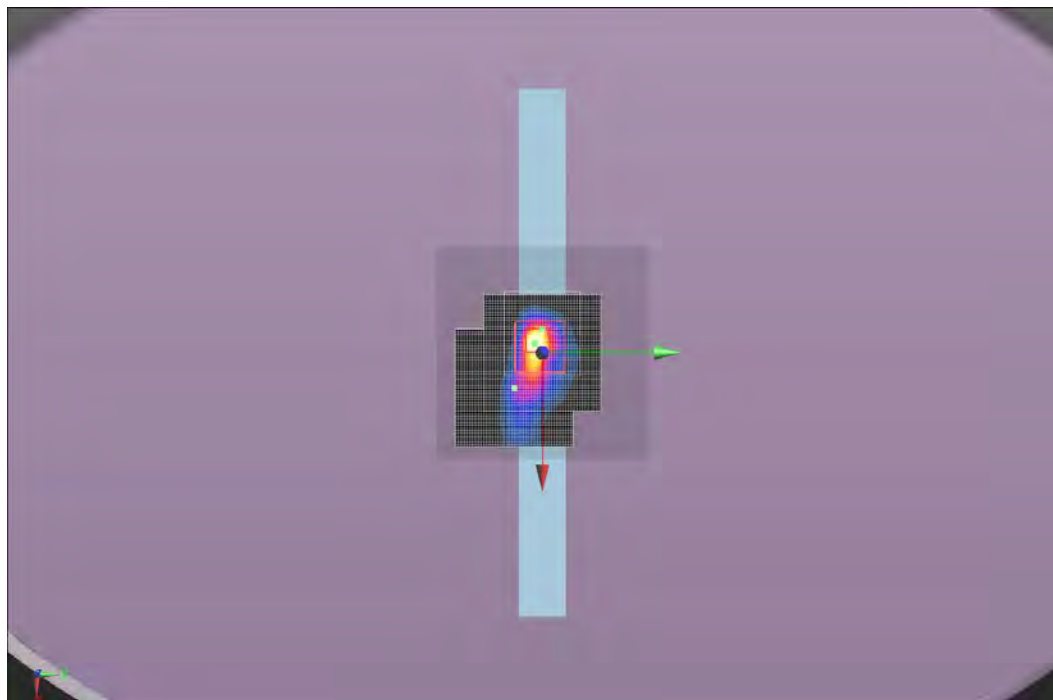
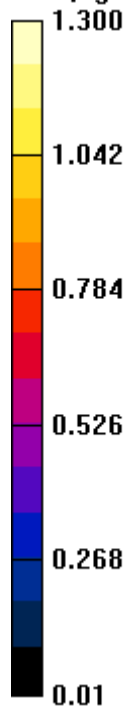
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.47 W/kg



Approved By

Test 165
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.2
Date:	4/3/2014	Liquid Temperature (°C):	20.7
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 165a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5190 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.243$ S/m; $\epsilon_r = 48.877$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.697 V/m; Power Drift = -0.30 dB

Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.064 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.634 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0253 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 4.796 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.715 W/kg

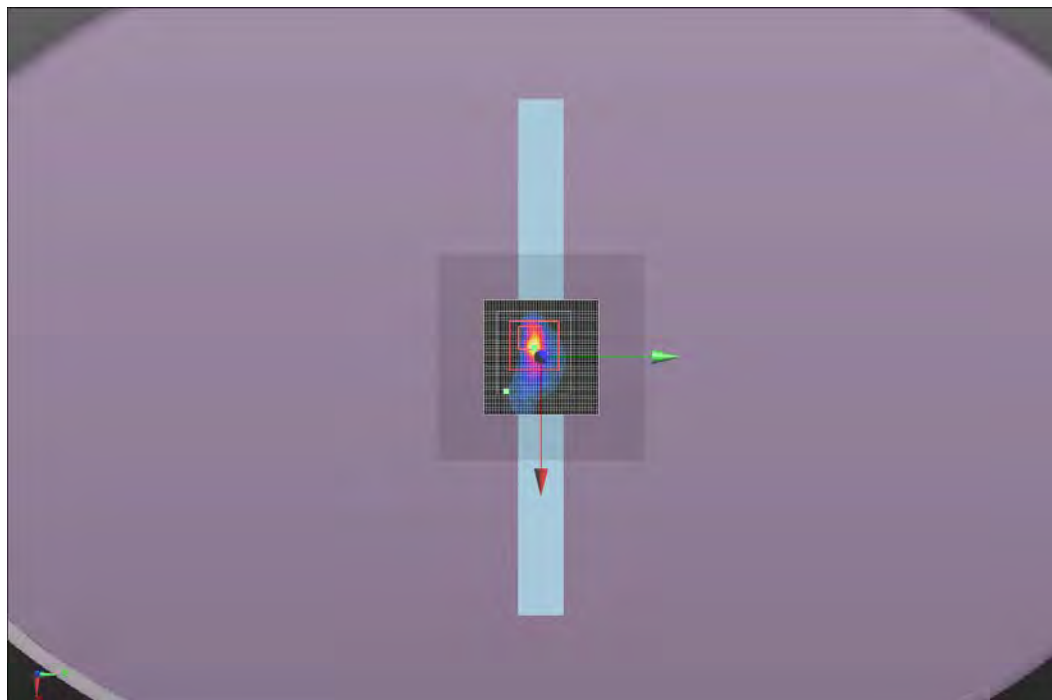
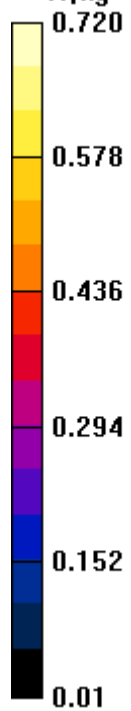
Maximum value of SAR (measured) = 0.121 W/kg



Approved By

Test 165a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.7
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	30.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 167

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.242$ S/m; $\epsilon_r = 48.872$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.818 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.211 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.50 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.268 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.896 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

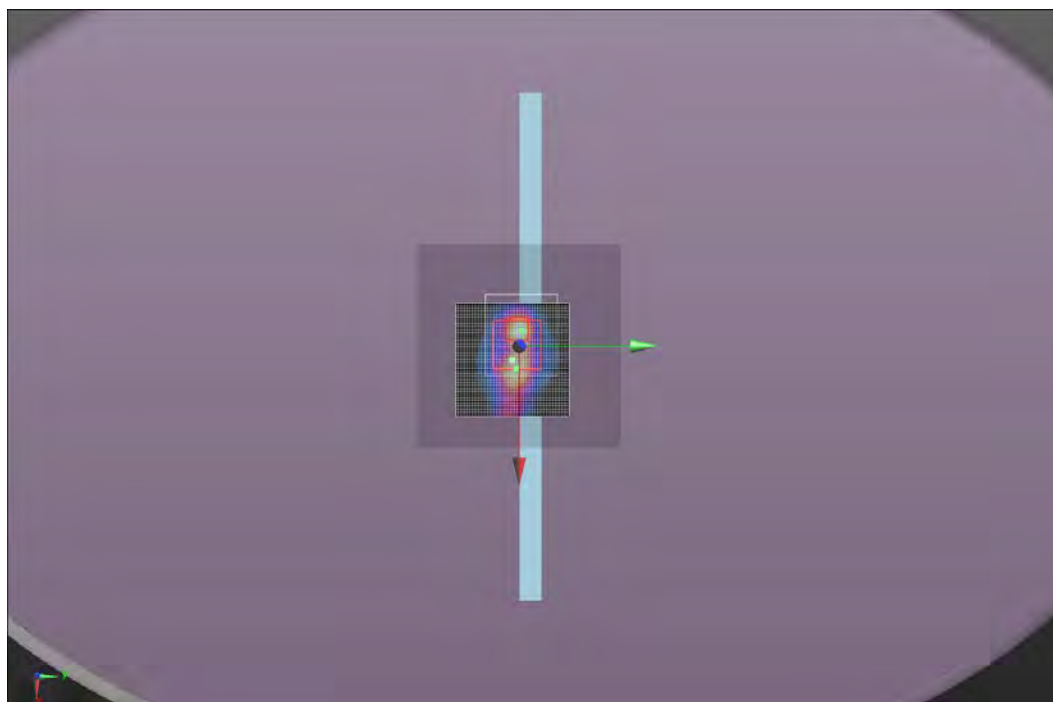
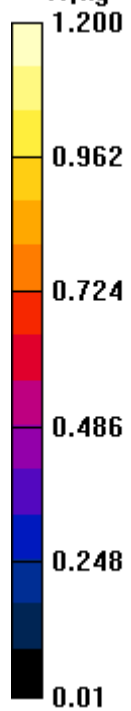
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.32 W/kg

Approved By

Test 167
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.7
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	30.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 168

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.242$ S/m; $\epsilon_r = 48.872$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x13x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.437 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 4.76 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.462 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.22 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.713 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 11.38 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

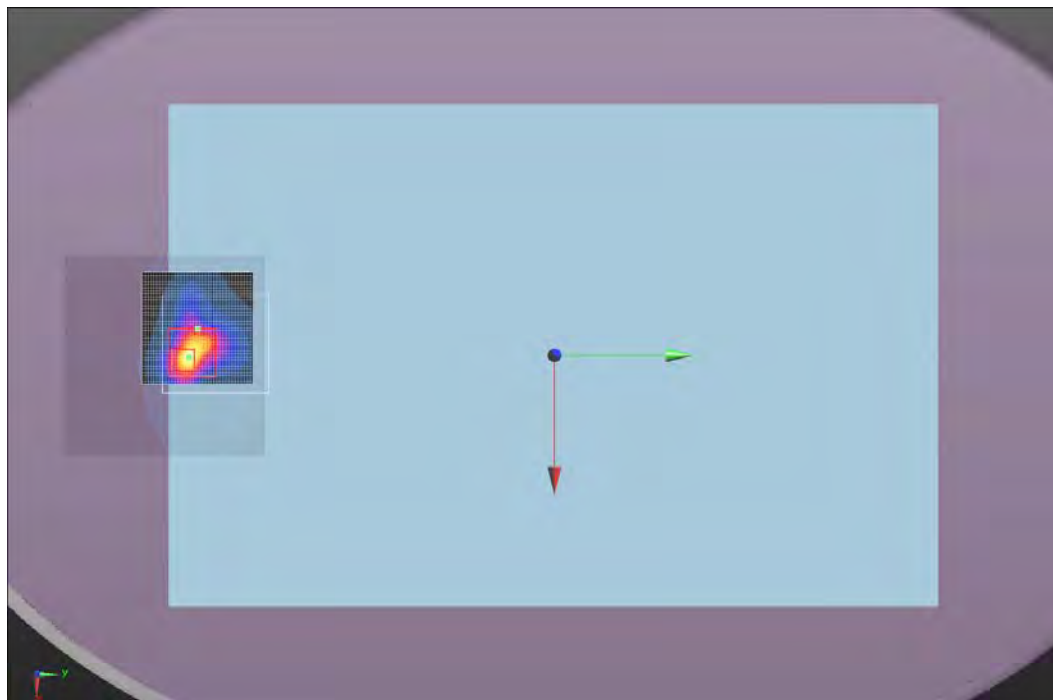
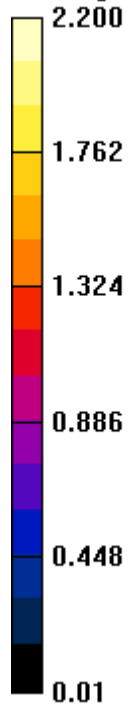
Maximum value of SAR (interpolated) = 2.15 W/kg

Maximum value of SAR (measured) = 0.679 W/kg




Approved By

Test 168
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.7
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	30.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 168a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5190 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5190$ MHz; $\sigma = 5.188$ S/m; $\epsilon_r = 48.997$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x13x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.368 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 0.336 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.135 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.223 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.136 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 11.16 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

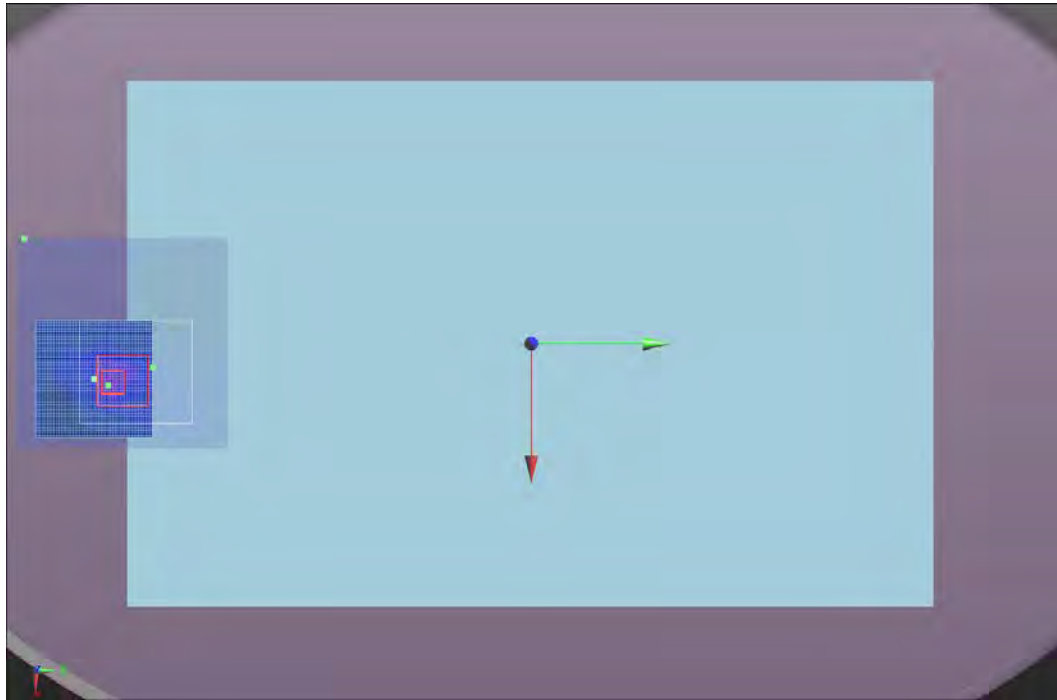
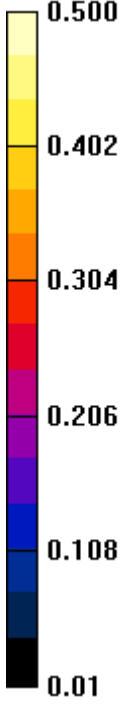
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.201 W/kg

Approved By

Test 168a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.7
Date:	4/6/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 181

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.217$ S/m; $\epsilon_r = 48.933$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.360 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.081 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.770 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0503 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.004 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

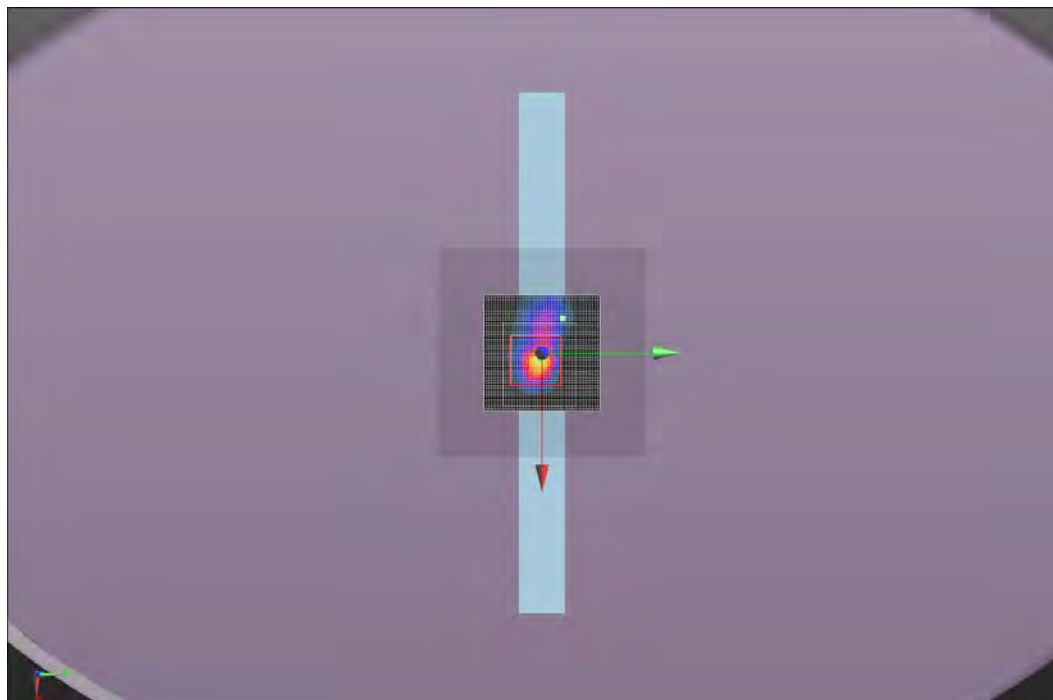
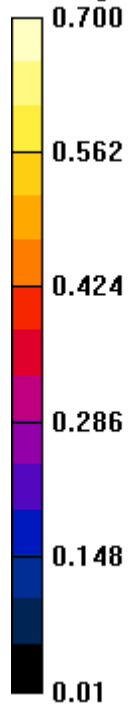
Maximum value of SAR (interpolated) = 0.608 W/kg

Maximum value of SAR (measured) = 0.131 W/kg



Approved By

Test 181
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	24
Date:	4/6/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 182

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.217$ S/m; $\epsilon_r = 48.933$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0874 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0896 W/kg

Body/Body/Area scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

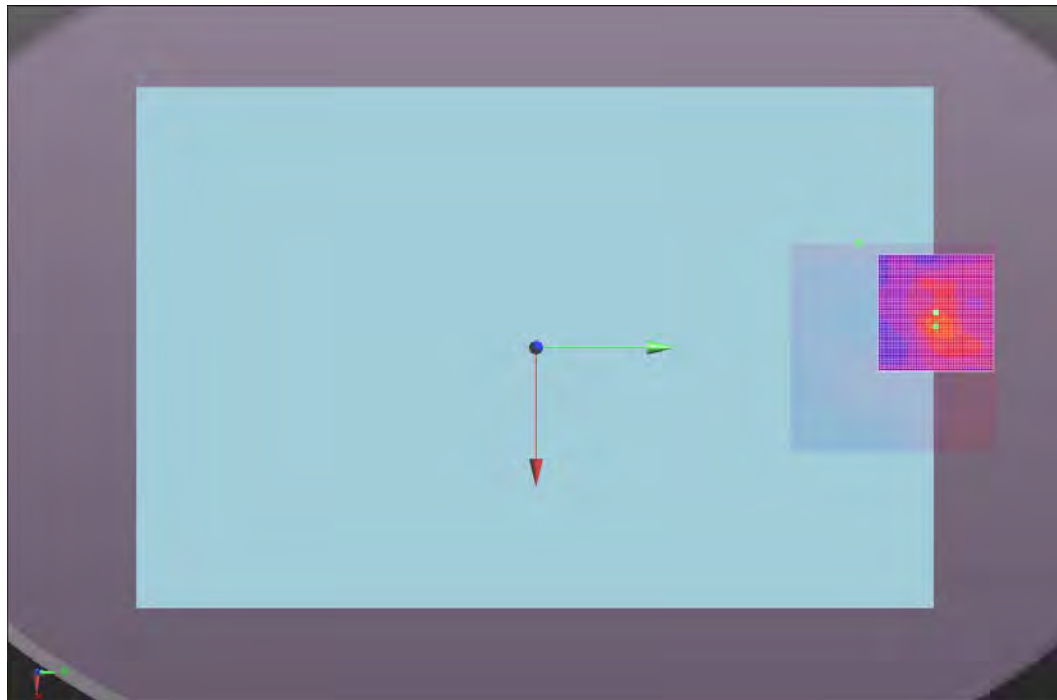
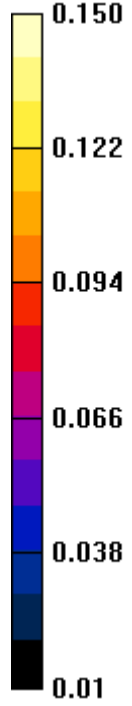
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0878 W/kg



Approved By

Test 182
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.4
Date:	4/7/2014	Liquid Temperature (°C):	22
Serial Number:	010	Humidity (%RH):	43
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 183

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.217$ S/m; $\epsilon_r = 48.933$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.737 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.160 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.228 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.111 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

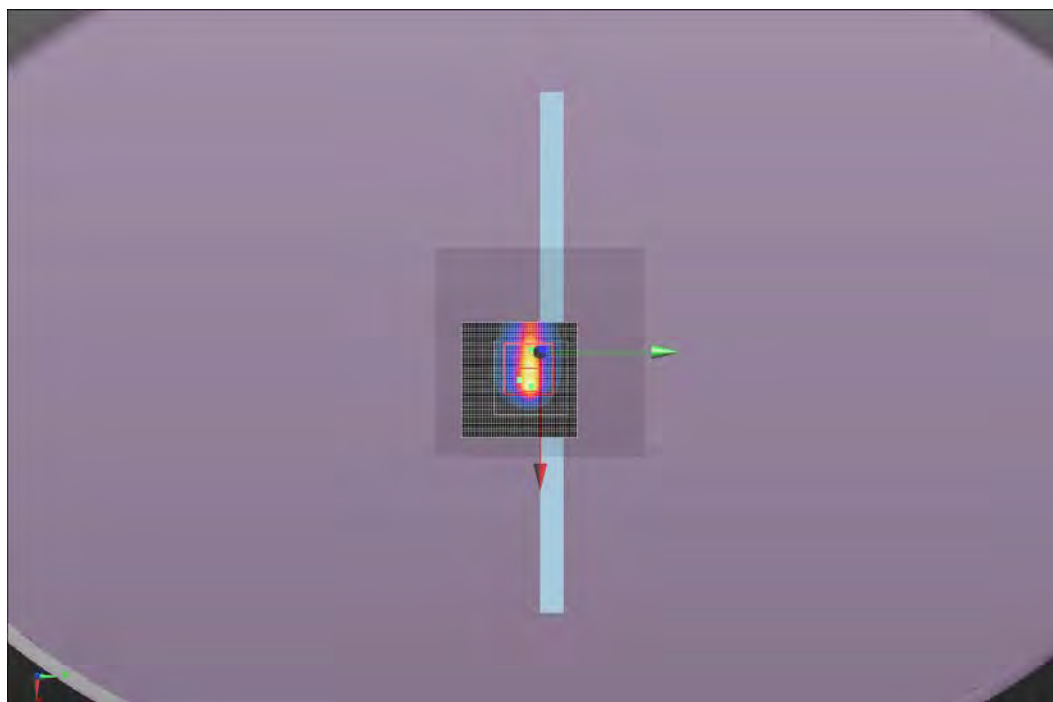
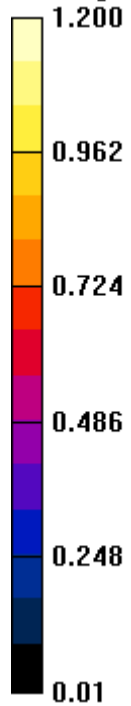
Maximum value of SAR (interpolated) = 1.19 W/kg

Maximum value of SAR (measured) = 0.264 W/kg



Approved By

Test 183
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.7
Date:	4/7/2014	Liquid Temperature (°C):	22
Serial Number:	010	Humidity (%RH):	40.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 184

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.246$ S/m; $\epsilon_r = 48.941$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.823 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.01 W/kg

SAR(1 g) = 0.738 W/kg; SAR(10 g) = 0.335 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.42 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.446 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.52 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

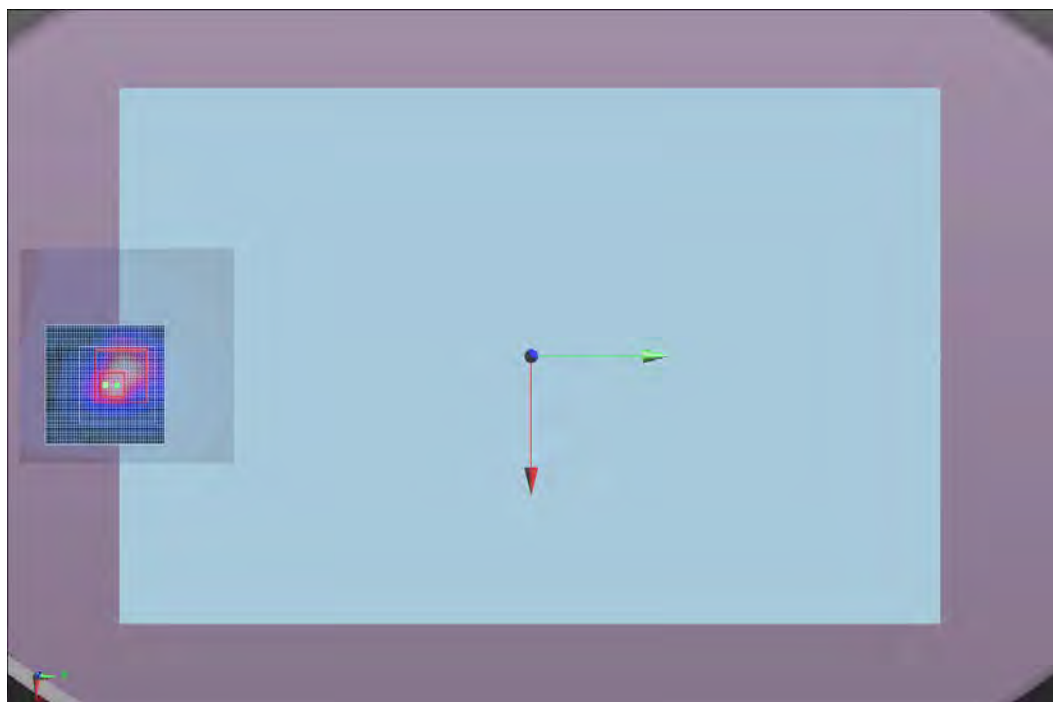
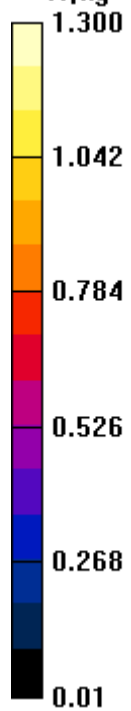
[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

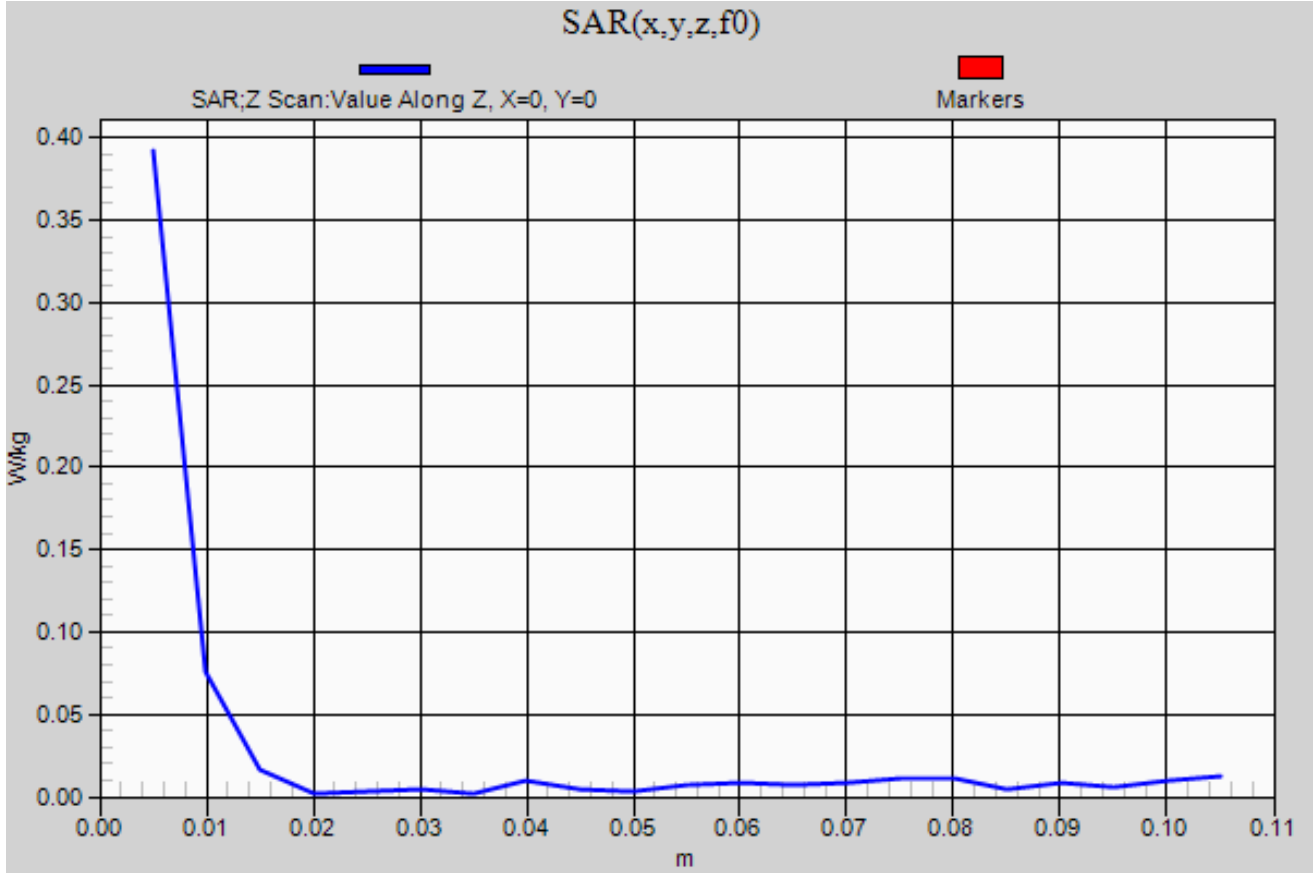
Maximum value of SAR (measured) = 0.581 W/kg

 
Approved By

Test 184
W/kg



Test 152d – Z Scan



EUT:	WSBUB-SDS	Work Order:	INTE5434
Customer:	Intel Corporation	Job Site:	EV08
Attendees:	Mike Lowe, Bill Jones	Customer Project:	None

TEST SPECIFICATIONS

Specification:	Method:
FCC 2.1093:2014 FCC 15.247:2014	IEEE Std 1528:2003 FCC KDB 447498 D01 v05r02 FCC KDB 248227 D01 v01r02 FCC KDB 616217 D04 v01r01 FCC 865664 D01 v01r03 and D02 v01r01

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

RESULTS

Test Configuration	Frequency Band	Transmit Frequency (MHz)	Transmit Channel	Data Rate (Mbps)	Channel Bandwidth (MHz)	Antenna Port	Mode	EUT Position	Power Drift During Test (dB)	Measured 1g SAR Level (mW/g)	Measured 10g SAR Level (mW/g)	Test #
Body	5.3	5300	60	6 Mbit	20	A	Tablet	Right Side	0.12	0.71	0.25	105
Body	5.3	5300	60	6 Mbit	20	A	Tablet	Back	N/A	0.17	0.17	106
Body	5.3	5300	60	6 Mbit	20	A	Tent	Right Side	-0.27	0.83	0.26	107
Body	5.3	5260	52	6 Mbit	20	A	Tent	Right Side	0.06	0.68	0.19	107a
Body	5.3	5300	60	6 Mbit	20	A	Tent	Back	0.09	1.37	0.45	108
Body	5.3	5320	64	6 Mbit	20	A	Tent	Back	-0.12	0.67	0.22	108a
Body	5.3	5300	60	6 Mbit	20	A	Tent	Back	0.03	1.36	0.46	108c
Body	5.3	5270	52/56	MCS0	40	A	Tablet	Right Side	0.07	0.71	0.24	121
Body	5.3	5270	52/56	MCS0	40	A	Tablet	Back	N/A	0.09	0.09	122
Body	5.3	5270	52/56	MCS0	40	A	Tent	Right Side	-0.01	0.67	0.21	123
Body	5.3	5310	60/64	MCS0	40	A	Tent	Back	0.02	1.00	0.41	124a
Body	5.3	5270	52/56	MCS0	40	A	Tent	Back	0.05	1.19	0.39	124c
Body	5.3	5290	58	MCS0	80	A	Tablet	Right Side	0.06	0.41	0.15	137
Body	5.3	5290	58	MCS0	80	A	Tablet	Back	-0.83	0.14	0.14	138
Body	5.3	5290	58	MCS0	80	A	Tent	Right Side	-0.04	0.45	0.14	139
Body	5.3	5290	58	MCS0	80	A	Tent	Back	-0.09	1.04	0.42	140
Body	5.3	5260	52	6 Mbit	20	B	Tablet	Left Side	-0.45	0.38	0.09	153a
Body	5.3	5260	52	6 Mbit	20	B	Tablet	Back	0.34	0.20	0.18	154
Body	5.3	5260	52	6 Mbit	20	B	Tent	Left Side	-0.06	1.41	0.37	155
Body	5.3	5320	64	6 Mbit	20	B	Tent	Left Side	0.01	0.67	0.20	155a
Body	5.3	5320	64	6 Mbit	20	B	Tent	Back	-0.23	0.69	0.30	156a
Body	5.3	5260	52	6 Mbit	20	B	Tent	Back	-0.12	1.37	0.48	156b
Body	5.3	5270	52/56	MCS0	40	B	Tablet	Left Side	0.21	0.94	0.24	169
Body	5.3	5310	60/64	MCS0	40	B	Tablet	Left Side	-0.07	0.61	0.16	169a
Body	5.3	5270	52/56	MCS0	40	B	Tablet	Back	0.41	0.13	0.12	170
Body	5.3	5270	52/56	MCS0	40	B	Tent	Left Side	-0.01	0.79	0.23	171
Body	5.3	5270	52/56	MCS0	40	B	Tent	Back	0.23	1.13	0.50	172
Body	5.3	5310	60/64	MCS0	40	B	Tent	Back	-0.01	0.89	0.42	172a
Body	5.3	5290	58	MCS0	80	B	Tablet	Left Side	-0.05	0.56	0.15	185
Body	5.3	5290	58	MCS0	80	B	Tablet	Back	0.70	0.17	0.16	186
Body	5.3	5290	58	MCS0	80	B	Tent	Left Side	0.06	0.89	0.26	187
Body	5.3	5290	58	MCS0	80	B	Tent	Back	-0.14	0.92	0.46	188

Tested By:	Ethan Schoonover	Room Temperature (°C):	23
Date:	3/31/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	29.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 105

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.406 \text{ S/m}$; $\epsilon_r = 48.496$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.236 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.00 W/kg

SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.222 W/kg

Maximum value of SAR (measured) = 1.09 W/kg

Body/Body/Zoom Scan 2 (11x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.236 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.83 W/kg

SAR(1 g) = 0.707 W/kg; SAR(10 g) = 0.246 W/kg

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

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.260 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 7.222 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

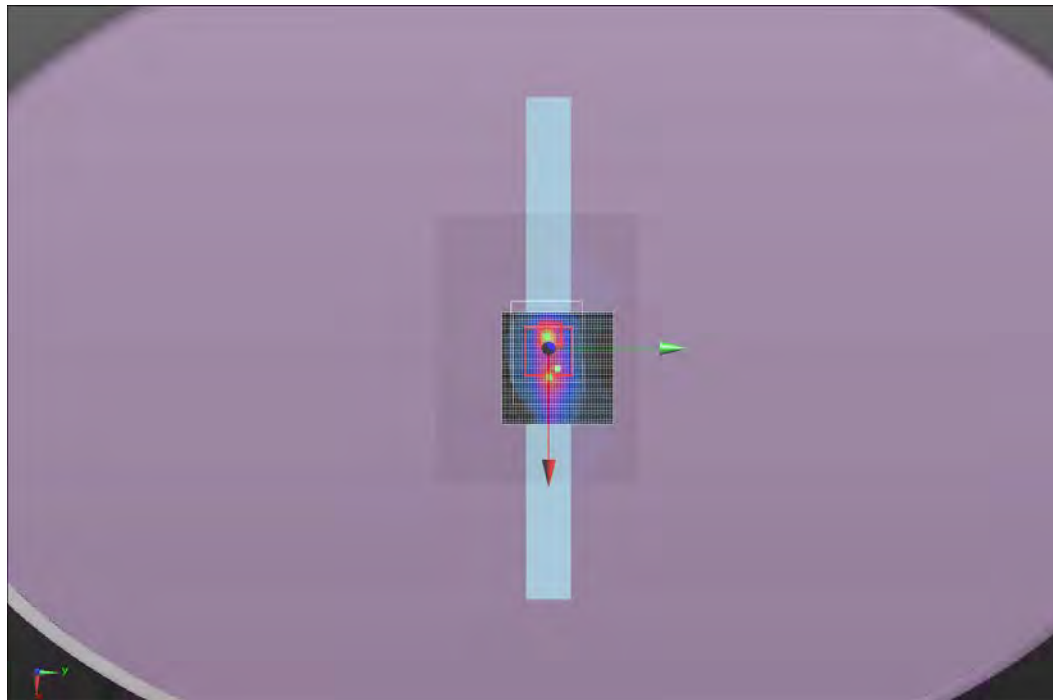
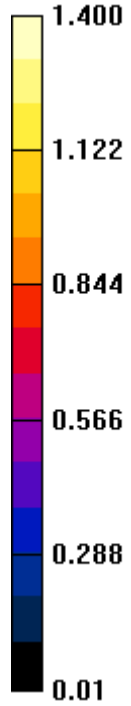
Maximum value of SAR (interpolated) = 1.19 W/kg

Maximum value of SAR (measured) = 0.282 W/kg




Approved By

Test 105
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.5
Date:	3/31/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	27.8
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 106

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5300$ MHz; $\sigma = 5.406$ S/m; $\epsilon_r = 48.496$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:



- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.133 W/kg

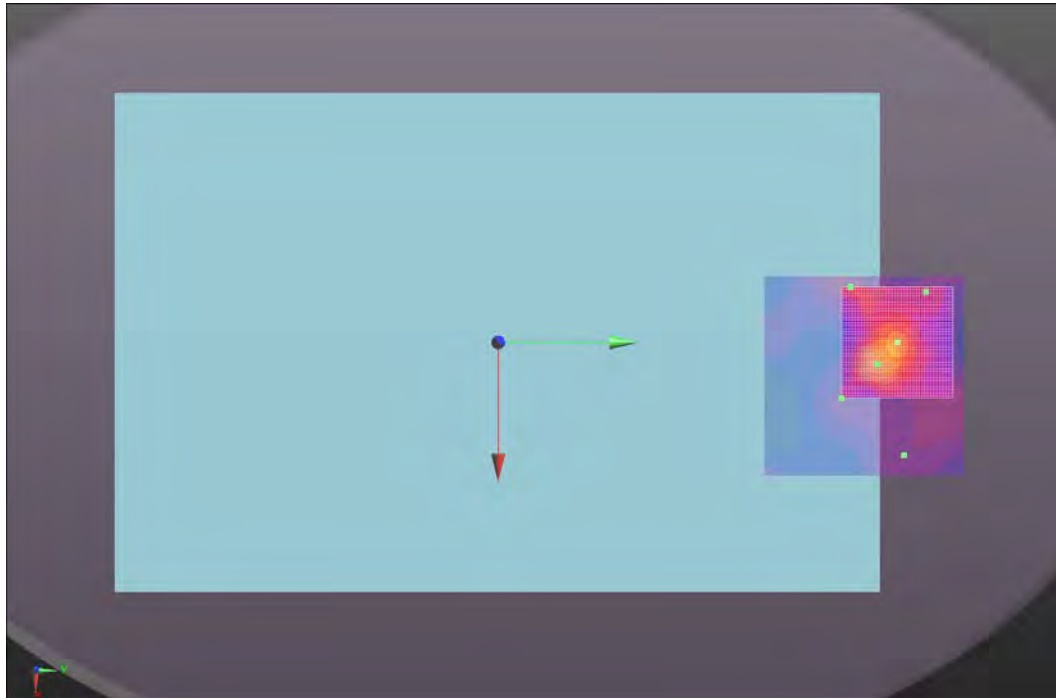
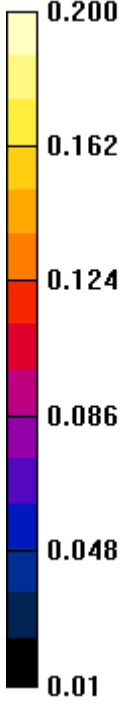
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.168 W/kg

Approved By

Test 106
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.8
Date:	3/31/2014	Liquid Temperature (°C):	20.4
Serial Number:	010	Humidity (%RH):	32
Configuration:	INTE5434-1	Bar. Pressure (mb):	1006
Comments:	None		

Test 107

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.406 \text{ S/m}$; $\epsilon_r = 48.496$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.707 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.259 W/kg

Maximum value of SAR (measured) = 1.83 W/kg

Body/Body/Zoom Scan 2 (12x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.707 V/m; Power Drift = -0.30 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 0.820 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 1.78 W/kg

Body/Body/Reference scan (81x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.362 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 8.070 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.24 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.57 W/kg

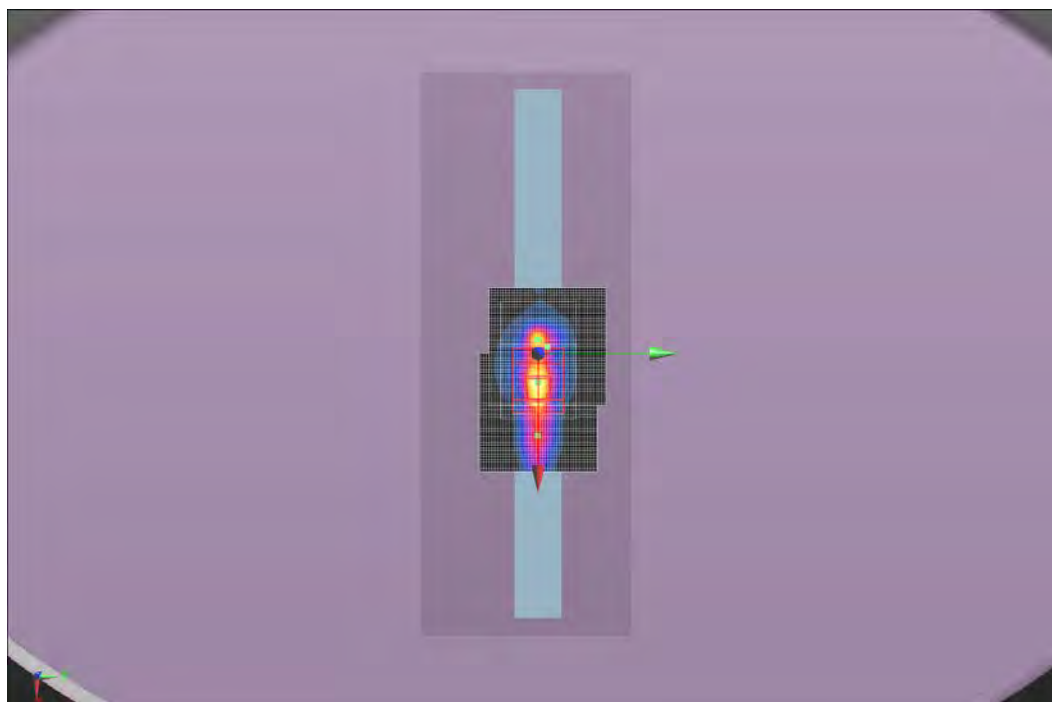
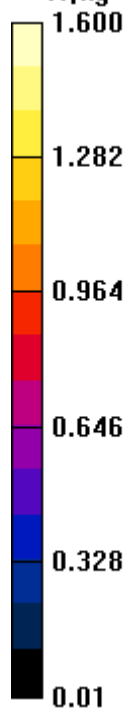
Body/Body/Area scan 2 (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.974 W/kg



Approved By

Test 107
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.6
Date:	3/31/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	33
Configuration:	INTE5434-1	Bar. Pressure (mb):	1006
Comments:	None		

Test 107a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.346$ S/m; $\epsilon_r = 48.623$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.165 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.684 W/kg; SAR(10 g) = 0.187 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.47 W/kg

Body/Body/Zoom Scan 2 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.165 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.228 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.51 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.199 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.964 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

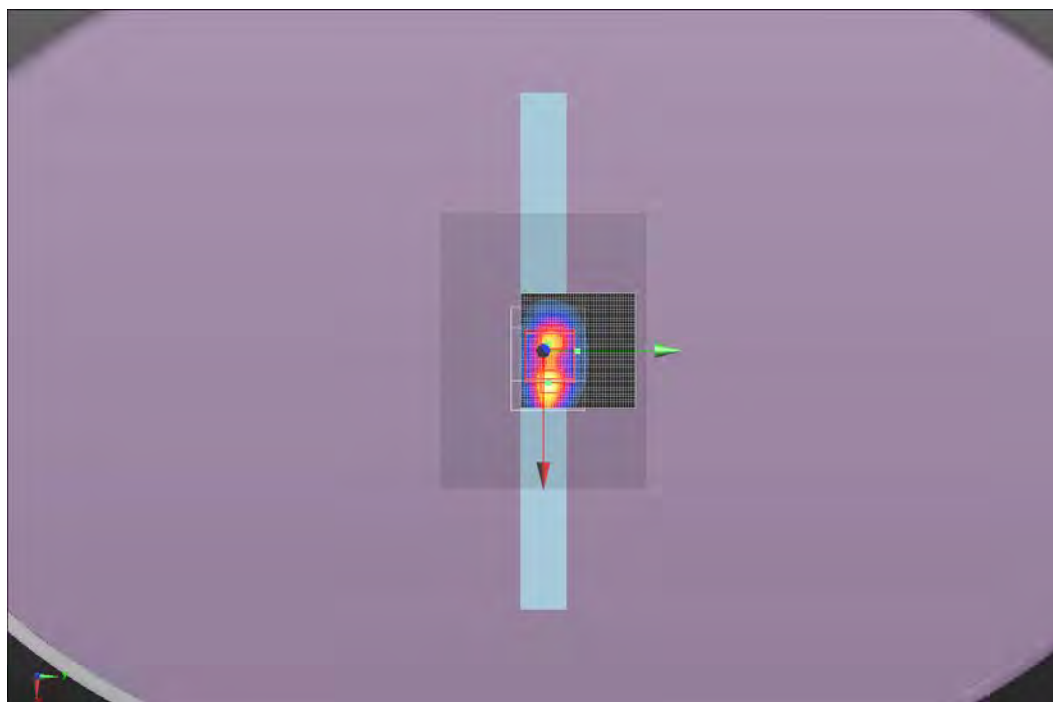
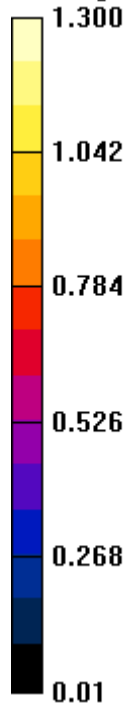
Maximum value of SAR (interpolated) = 1.31 W/kg

Maximum value of SAR (measured) = 0.339 W/kg



Approved By

Test 107a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.7
Date:	4/1/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	36.8
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 108

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.406 \text{ S/m}$; $\epsilon_r = 48.496$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.934 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 5.29 W/kg

SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.454 W/kg

Maximum value of SAR (measured) = 2.60 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.630 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 10.61 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

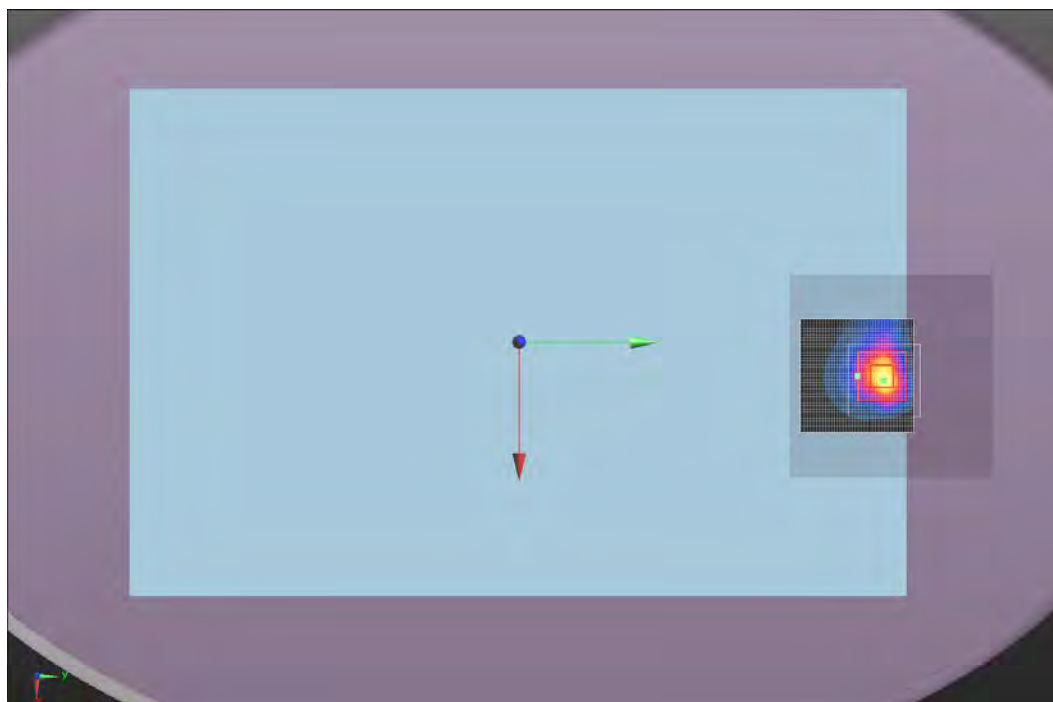
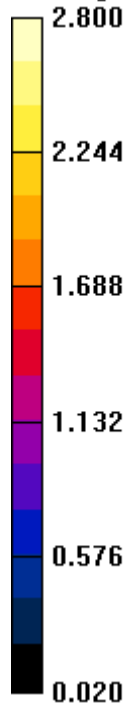
Maximum value of SAR (interpolated) = 2.62 W/kg

Maximum value of SAR (measured) = 0.609 W/kg




Approved By

Test 108
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.2
Date:	4/1/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 108a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5320 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5320$ MHz; $\sigma = 5.437$ S/m; $\epsilon_r = 48.429$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.454 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.222 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.31 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.598 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.576 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

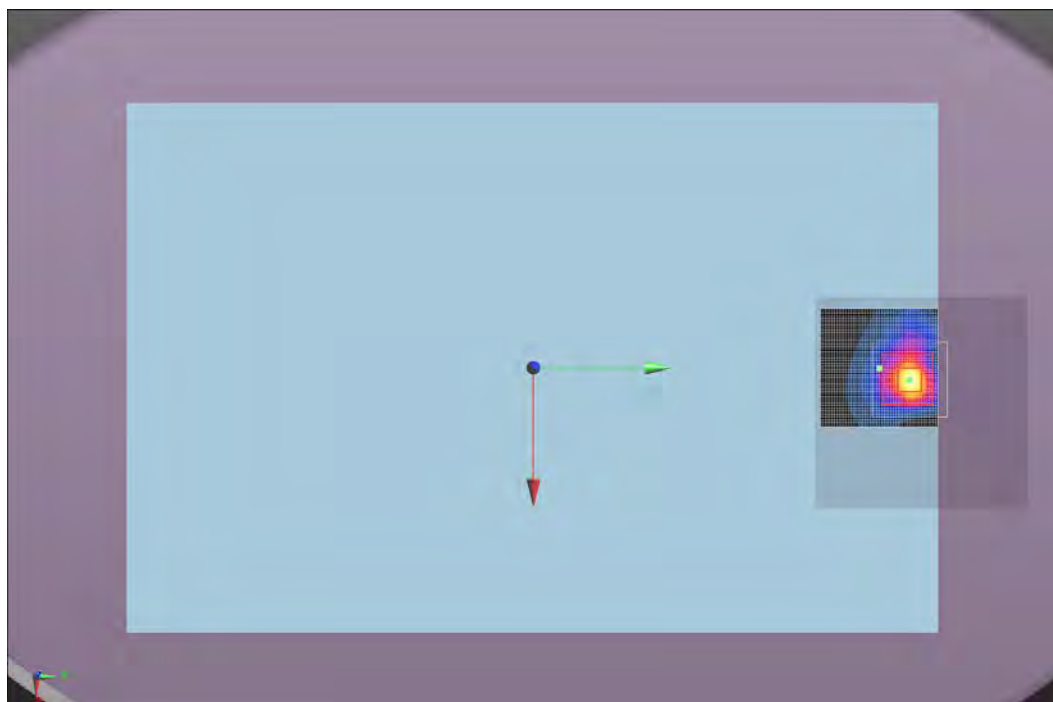
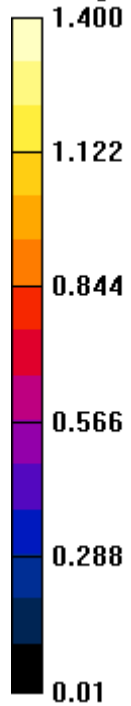
Maximum value of SAR (interpolated) = 1.38 W/kg

Maximum value of SAR (measured) = 0.312 W/kg

Approved By

Test 108a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23
Date:	4/9/2014	Liquid Temperature (°C):	23.1
Serial Number:	010	Humidity (%RH):	36.7
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	Power level 14.0		

Test 108c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 5.36 \text{ S/m}$; $\epsilon_r = 48.688$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.105 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 5.77 W/kg

SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.459 W/kg

Maximum value of SAR (measured) = 2.68 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 9.548 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

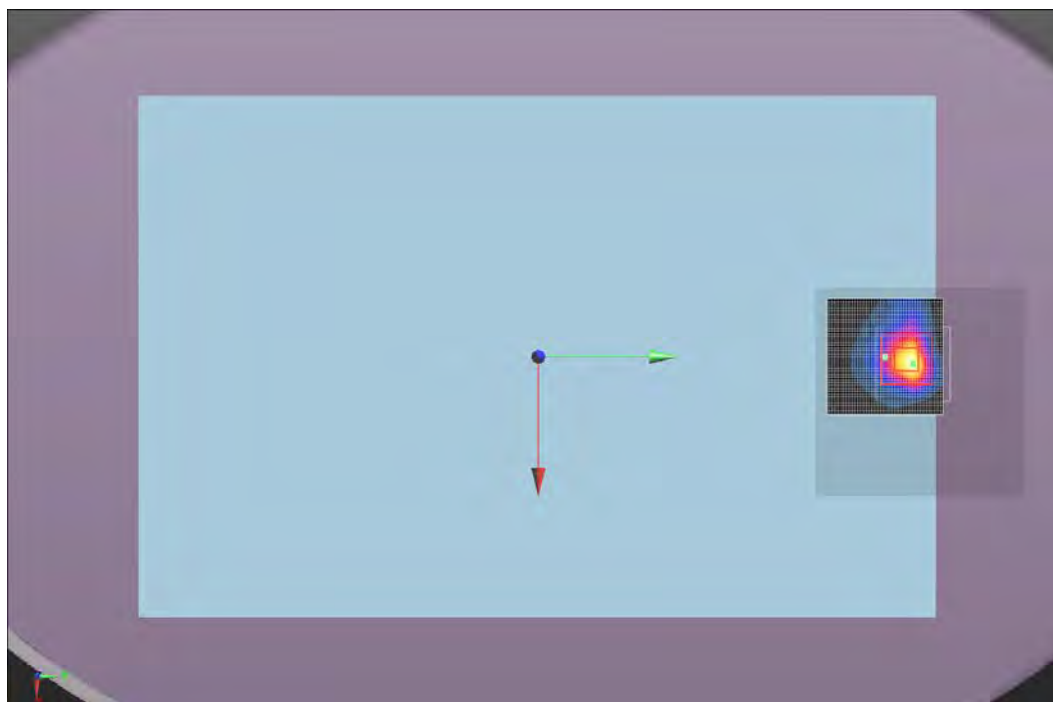
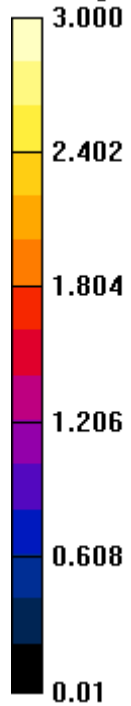
Maximum value of SAR (interpolated) = 2.95 W/kg

Maximum value of SAR (measured) = 0.489 W/kg



Approved By

Test 108c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.6
Date:	4/2/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	30.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 121

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.361$ S/m; $\epsilon_r = 48.591$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.888 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.244 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.48 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.347 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.074 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

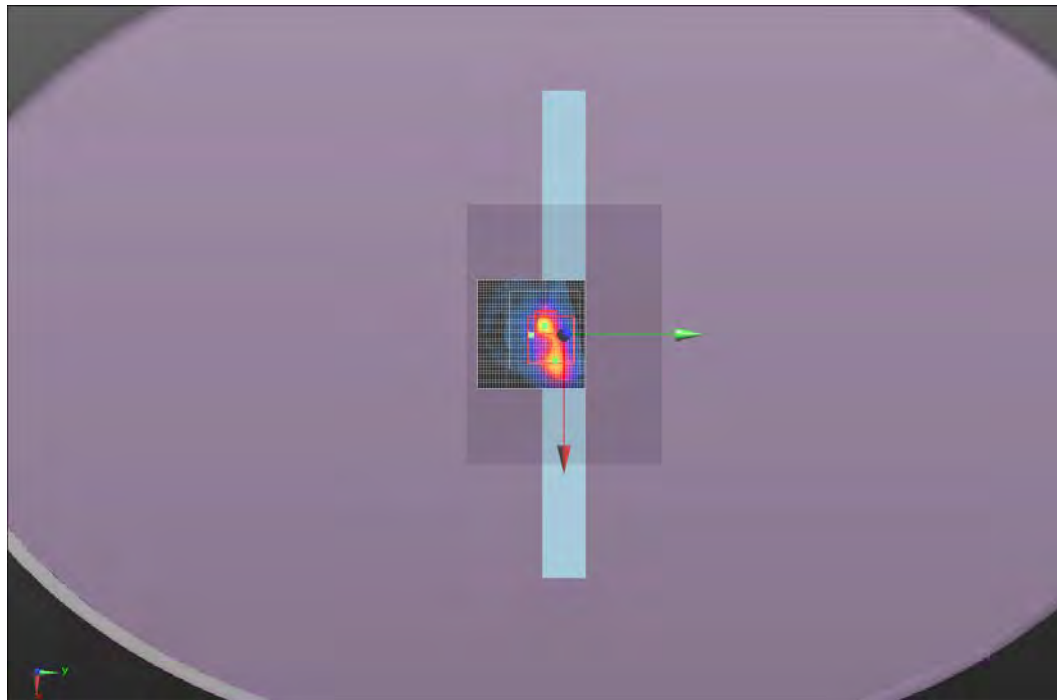
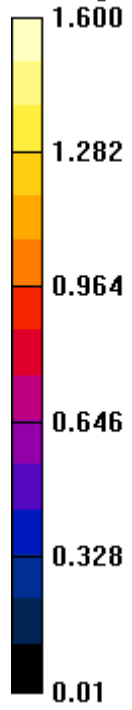
Maximum value of SAR (interpolated) = 1.43 W/kg

Maximum value of SAR (measured) = 0.350 W/kg

Approved By

Test 121
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.7
Date:	4/2/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	33.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 122

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.361$ S/m; $\epsilon_r = 48.591$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.125 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0871 W/kg

Body/Body/Area scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

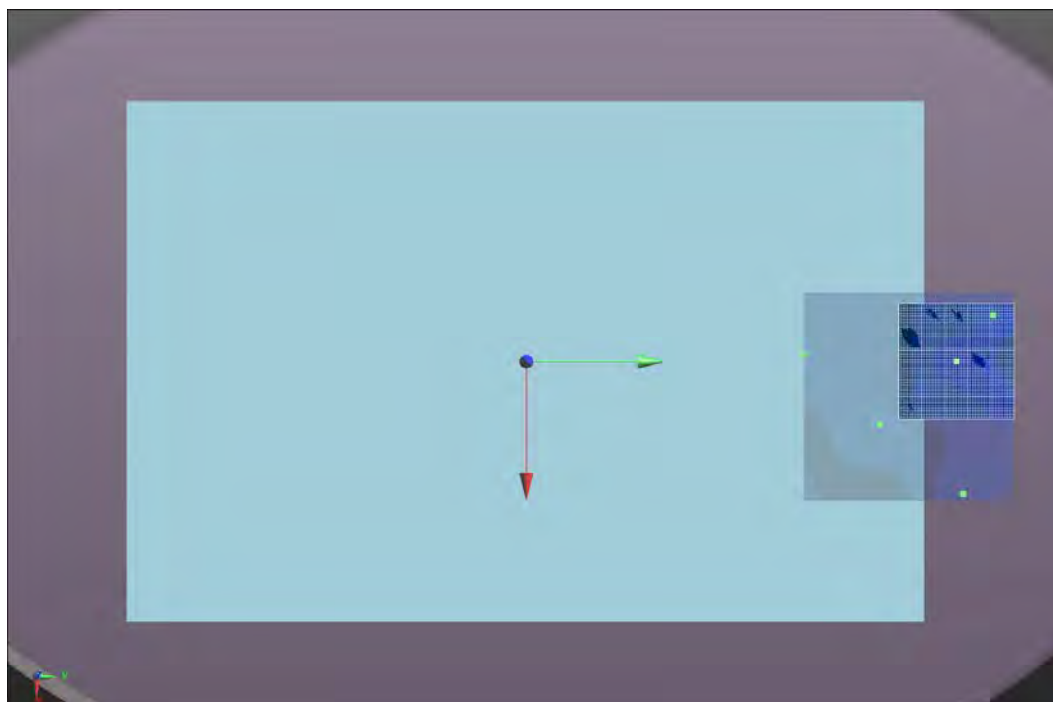
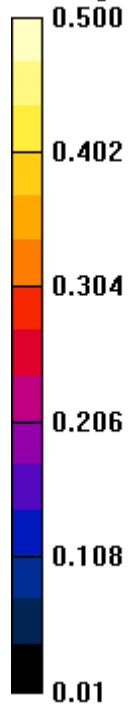
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0854 W/kg




Approved By

Test 122
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.7
Date:	4/1/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 123

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.361$ S/m; $\epsilon_r = 48.591$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.477 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.206 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.266 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.666 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

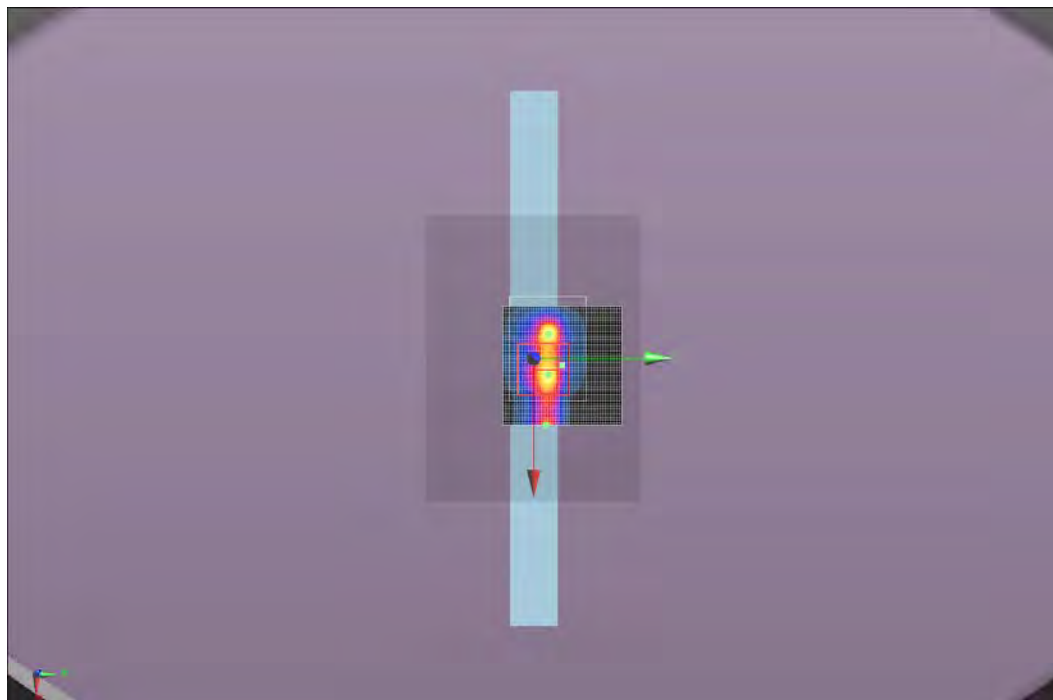
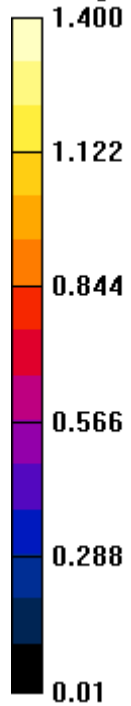
Maximum value of SAR (interpolated) = 1.35 W/kg

Maximum value of SAR (measured) = 0.315 W/kg



Approved By

Test 123
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.9
Date:	4/2/2014	Liquid Temperature (°C):	20.9
Serial Number:	010	Humidity (%RH):	33.5
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 124a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5310 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5310$ MHz; $\sigma = 5.422$ S/m; $\epsilon_r = 48.462$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.704 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 0.997 W/kg; SAR(10 g) = 0.412 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.82 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.01 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.08 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

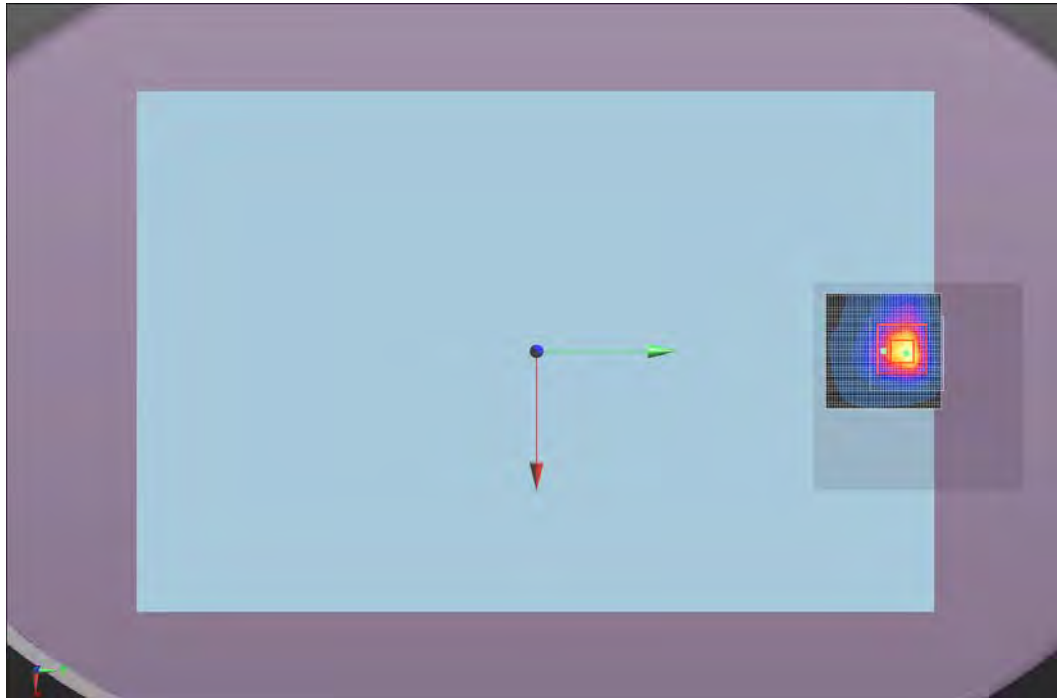
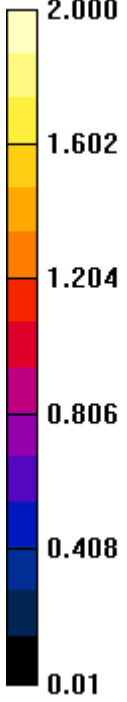
Maximum value of SAR (interpolated) = 1.94 W/kg

Maximum value of SAR (measured) = 0.551 W/kg

Approved By

Test 124a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.1
Date:	4/9/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	Power level 14.0		

Test 124c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.319$ S/m; $\epsilon_r = 48.767$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.765 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.62 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.391 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.31 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.21 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.469 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

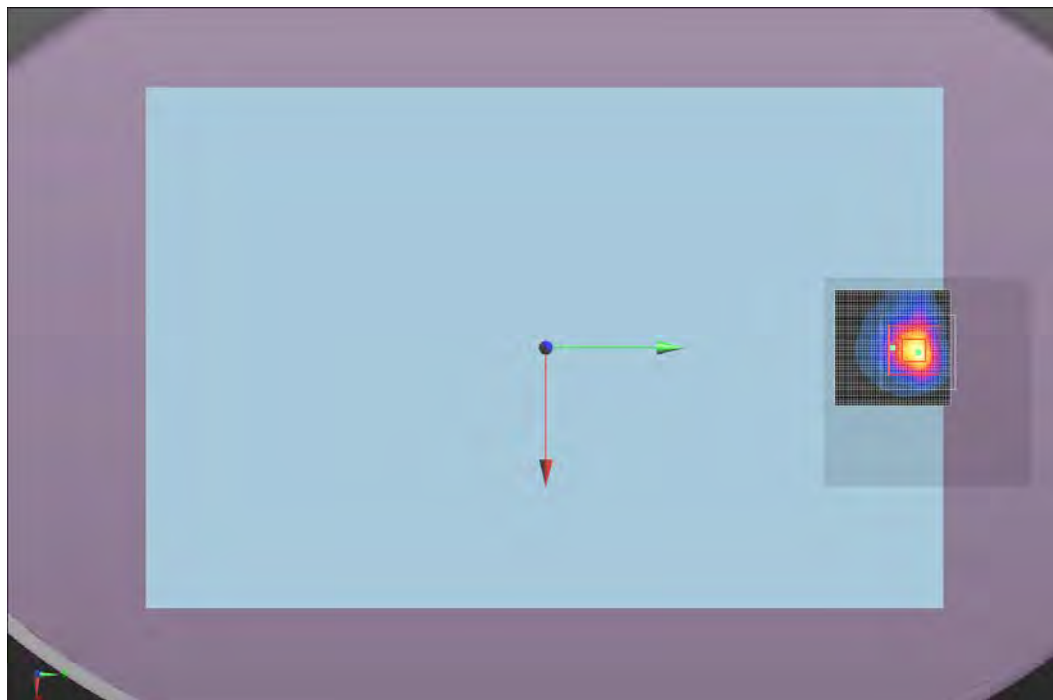
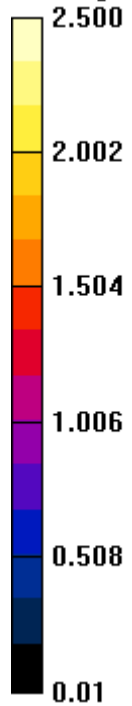
Maximum value of SAR (interpolated) = 2.45 W/kg

Maximum value of SAR (measured) = 0.477 W/kg



Approved By

Test 124c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 137

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 48.528$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.543 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.148 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.855 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.119 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.574 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

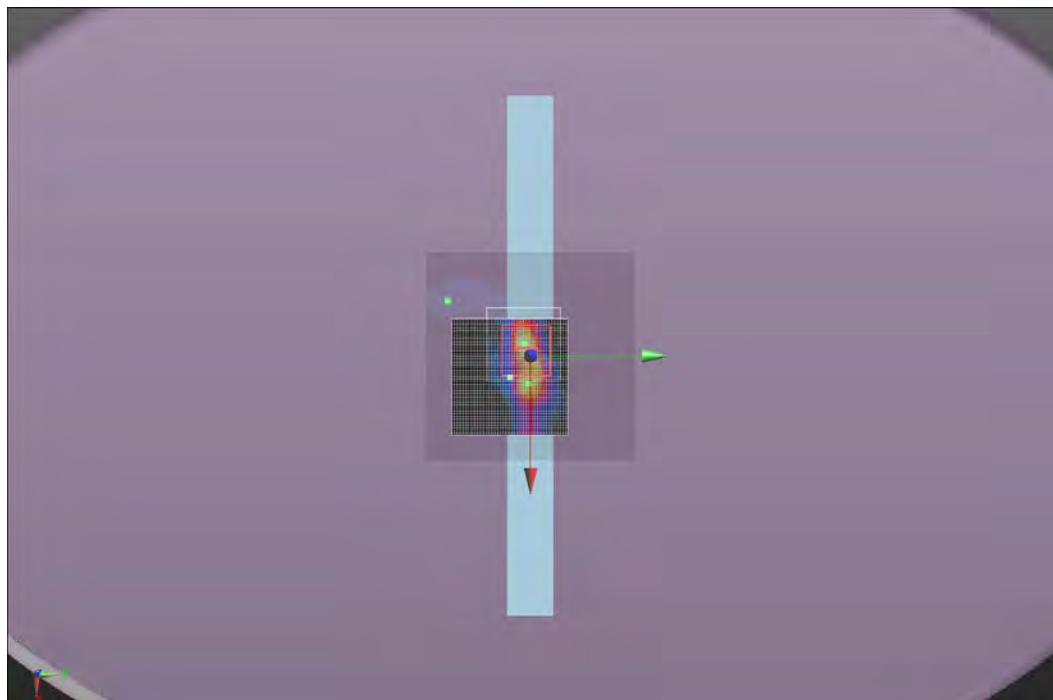
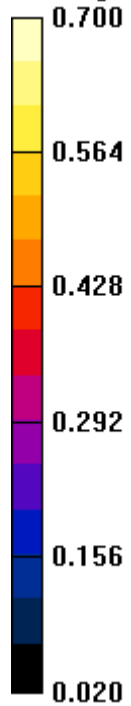
Maximum value of SAR (interpolated) = 0.677 W/kg

Maximum value of SAR (measured) = 0.168 W/kg

Approved By

Test 137
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 138

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 48.528$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.828 V/m; Power Drift = -0.83 dB

Peak SAR (extrapolated) = 0.170 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.137 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.170 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.119 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.996 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

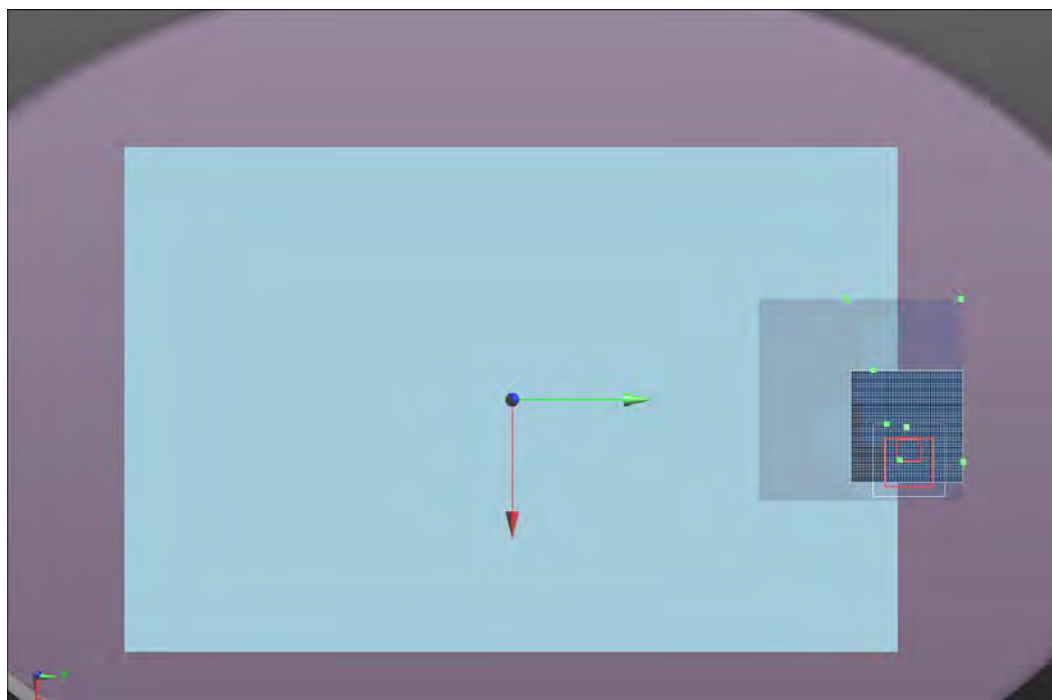
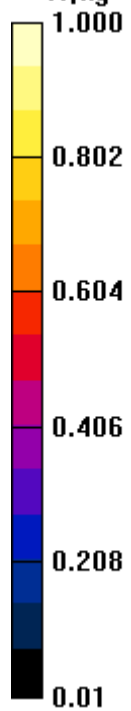
Maximum value of SAR (interpolated) = 0.116 W/kg

Approved By

WSTD.2013.09.09

Test 138
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.9
Date:	4/3/2014	Liquid Temperature (°C):	20.9
Serial Number:	010	Humidity (%RH):	35.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 139

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 48.528$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.187 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.144 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.949 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.104 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.540 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

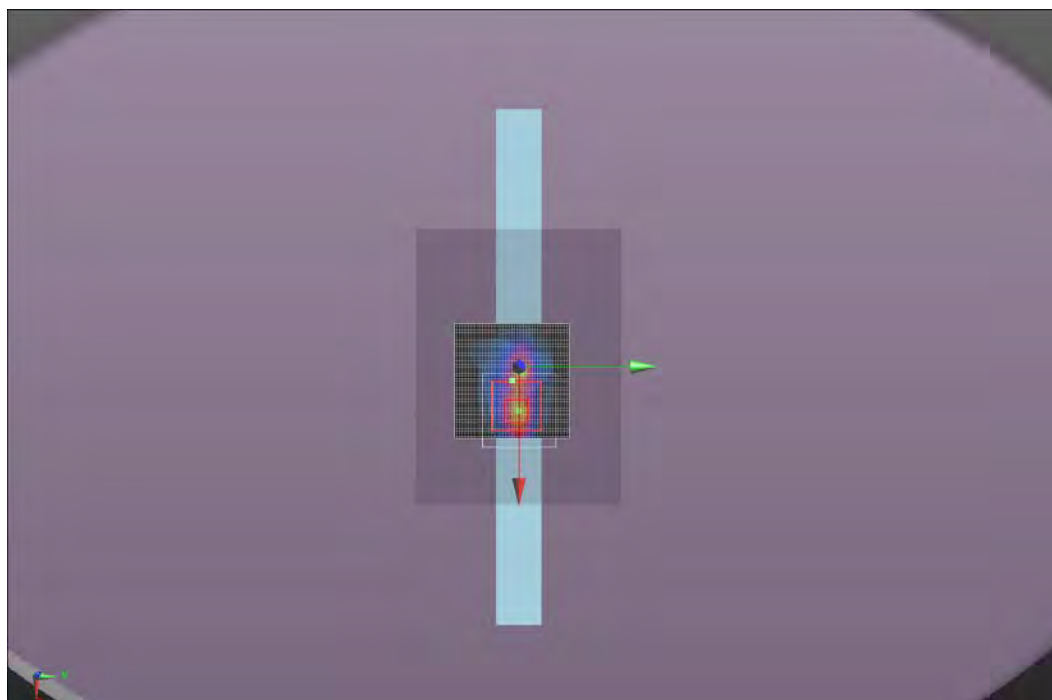
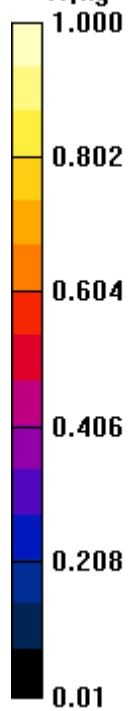
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.831 W/kg




Approved By

Test 139
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/2/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	34
Configuration:	INTE5434-1	Bar. Pressure (mb):	1017
Comments:	None		

Test 140

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.391$ S/m; $\epsilon_r = 48.528$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.409 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.425 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.94 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.19 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.22 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

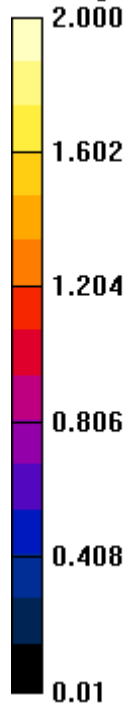
Maximum value of SAR (interpolated) = 2.00 W/kg

Maximum value of SAR (measured) = 0.564 W/kg



Approved By

Test 140
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/3/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 153a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.346$ S/m; $\epsilon_r = 48.623$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.028 V/m; Power Drift = -0.45 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.093 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.883 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.107 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.167 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.607 W/kg

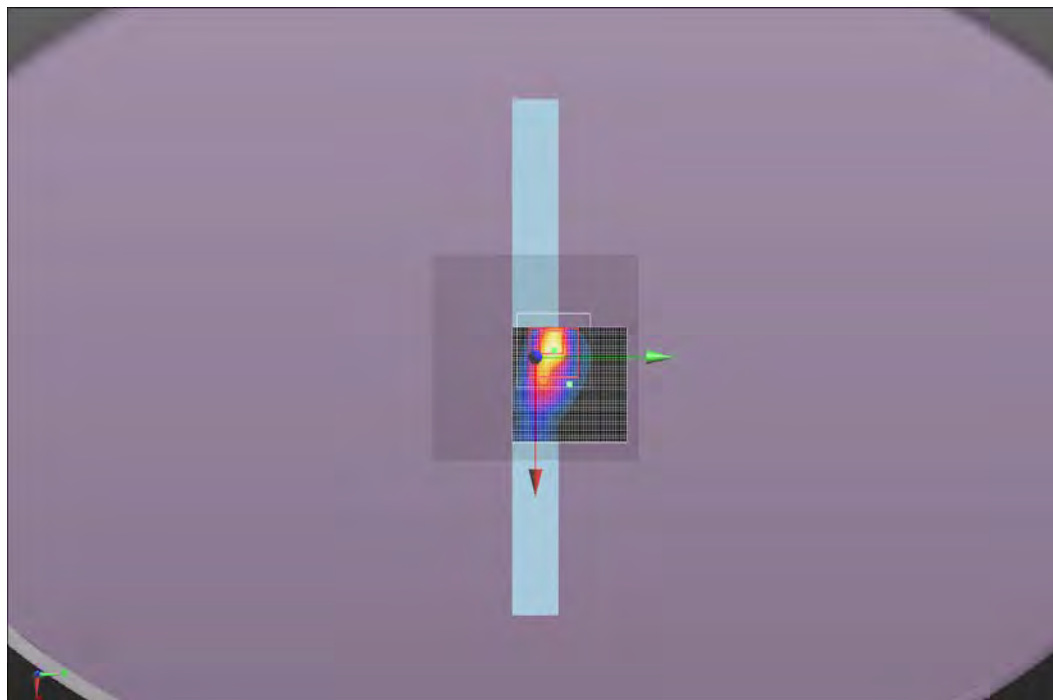
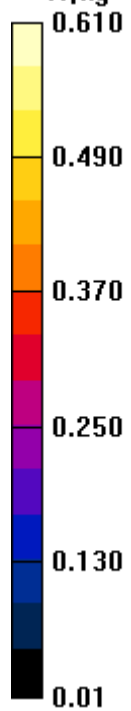
Maximum value of SAR (measured) = 0.143 W/kg



Approved By

Test 153a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 154

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.346$ S/m; $\epsilon_r = 48.623$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (11x12x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.483 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.181 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.224 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.196 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 13.00 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

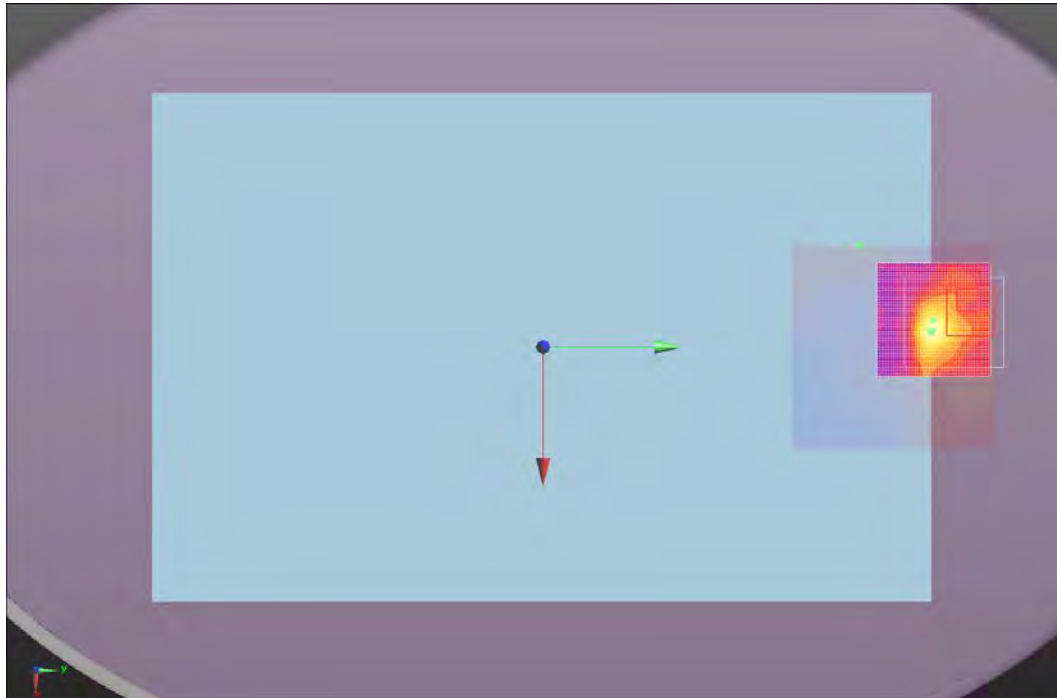
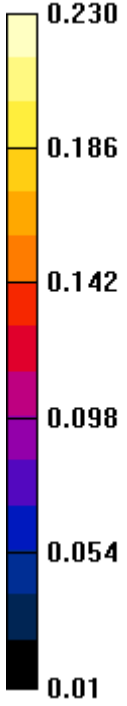
Maximum value of SAR (interpolated) = 0.223 W/kg

Maximum value of SAR (measured) = 0.904 W/kg



Approved By

Test 154
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/4/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	36.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 155

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.281$ S/m; $\epsilon_r = 48.783$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.901 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.90 W/kg

SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.368 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.20 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.427 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 11.21 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

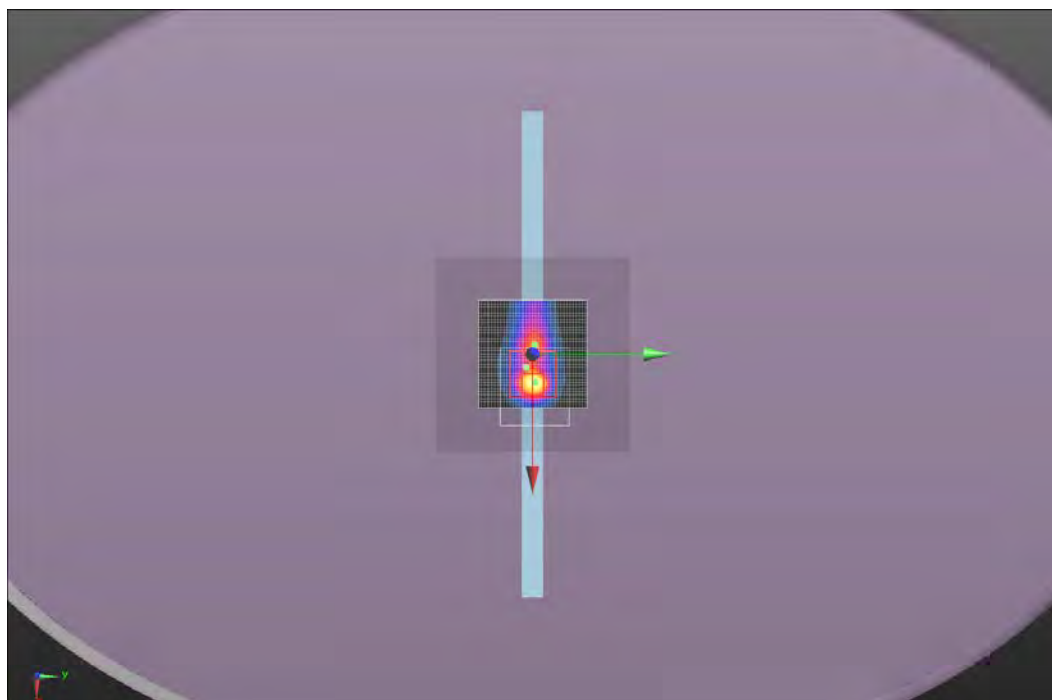
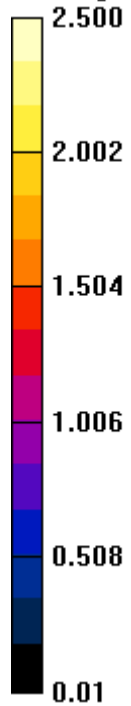
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.42 W/kg

Maximum value of SAR (measured) = 0.664 W/kg

 
Approved By

Test 155
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/4/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	36.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 155a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5320 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5320$ MHz; $\sigma = 5.437$ S/m; $\epsilon_r = 48.429$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (11x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.784 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.65 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.204 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.50 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.294 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.630 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

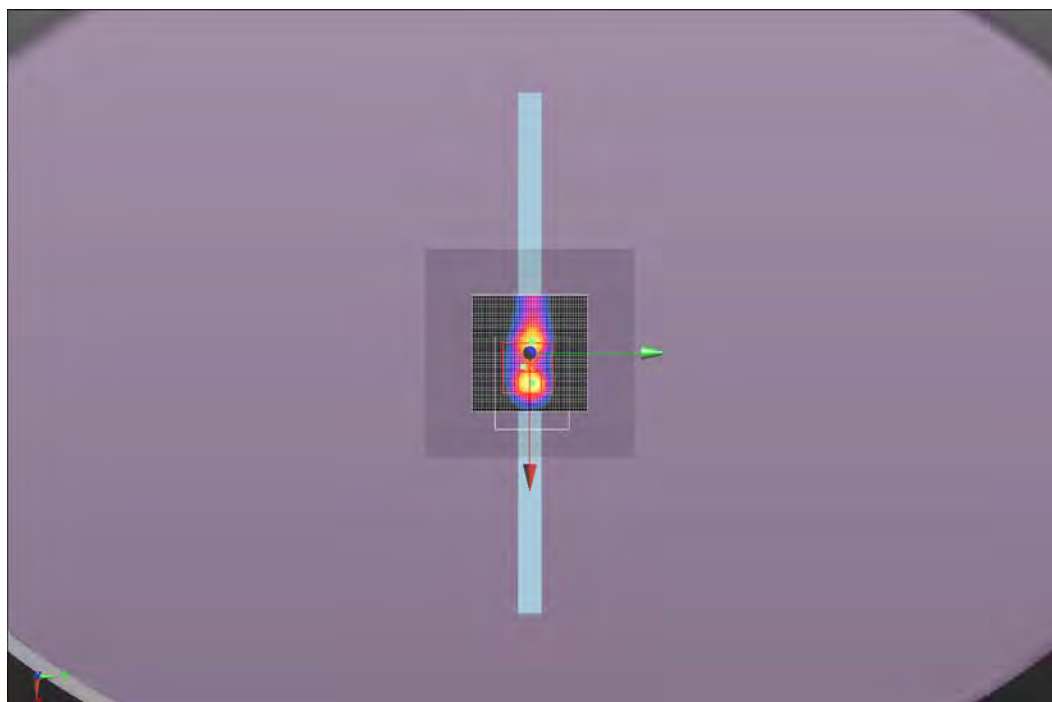
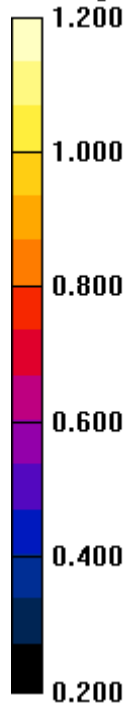
Maximum value of SAR (interpolated) = 1.15 W/kg

Maximum value of SAR (measured) = 0.317 W/kg

Approved By

Test 155a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.4
Date:	4/4/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	33.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 156a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5320 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5320$ MHz; $\sigma = 5.437$ S/m; $\epsilon_r = 48.429$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.200 V/m; Power Drift = -0.23 dB

Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.303 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.26 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.945 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.656 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.27 W/kg

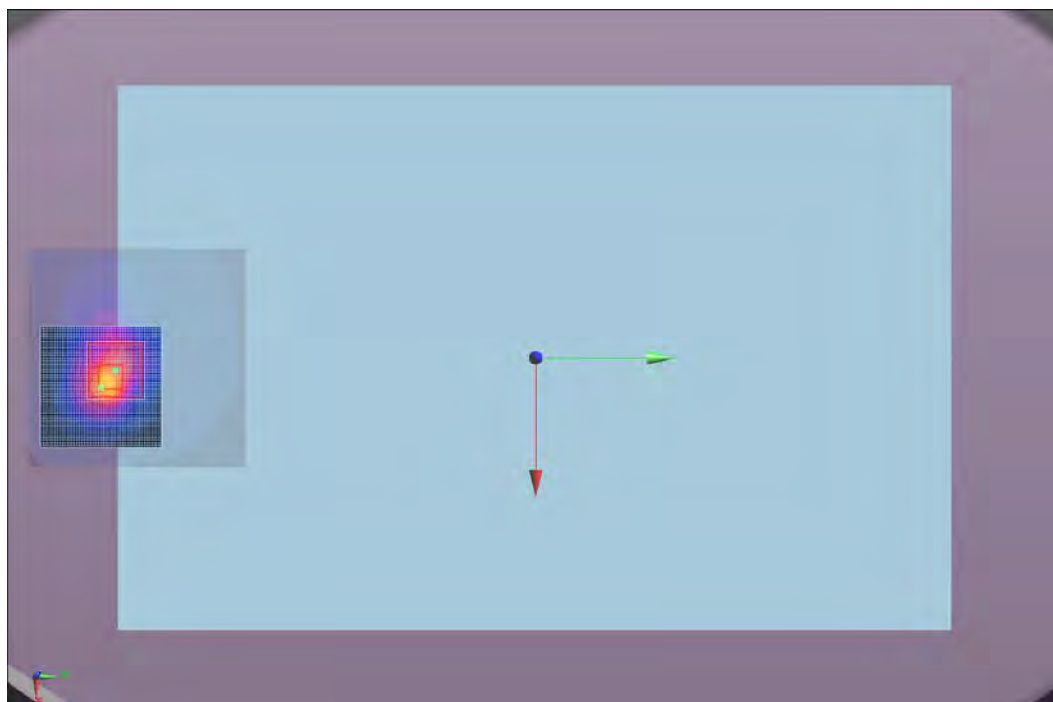
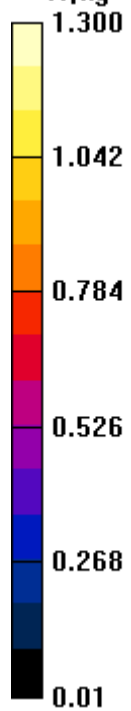
Maximum value of SAR (measured) = 0.507 W/kg

Approved By

Test 156a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/10/2014	Liquid Temperature (°C):	22.8
Serial Number:	010	Humidity (%RH):	34.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	Power level 14.0		

Test 156b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.305$ S/m; $\epsilon_r = 48.794$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.584 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 5.65 W/kg

SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.476 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.78 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.01 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.948 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

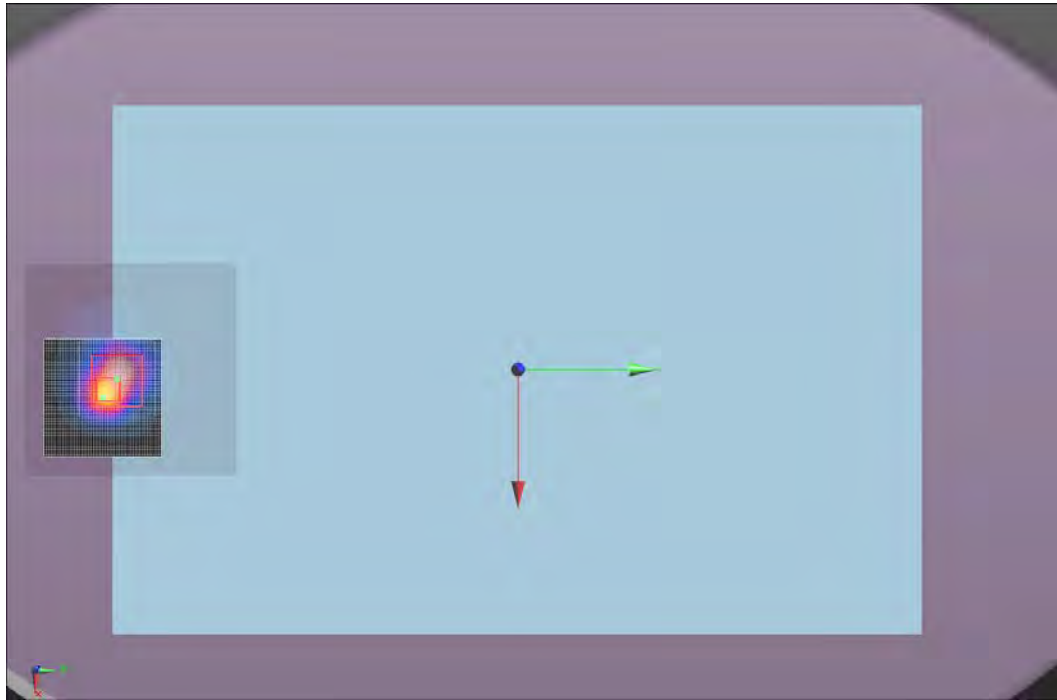
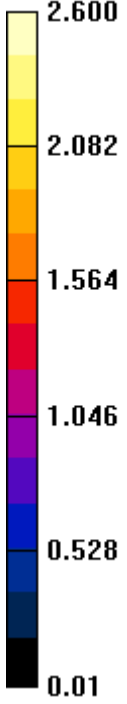
Maximum value of SAR (interpolated) = 2.59 W/kg

Maximum value of SAR (measured) = 0.425 W/kg

Approved By

Test 156b
W/kg



Tested By:	Cole Ghizzone	Room Temperature (°C):	24.2
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	35.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1018.8
Comments:	None		

Test 169

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.295$ S/m; $\epsilon_r = 48.754$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.674 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 4.68 W/kg

SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.240 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.17 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.316 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.497 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

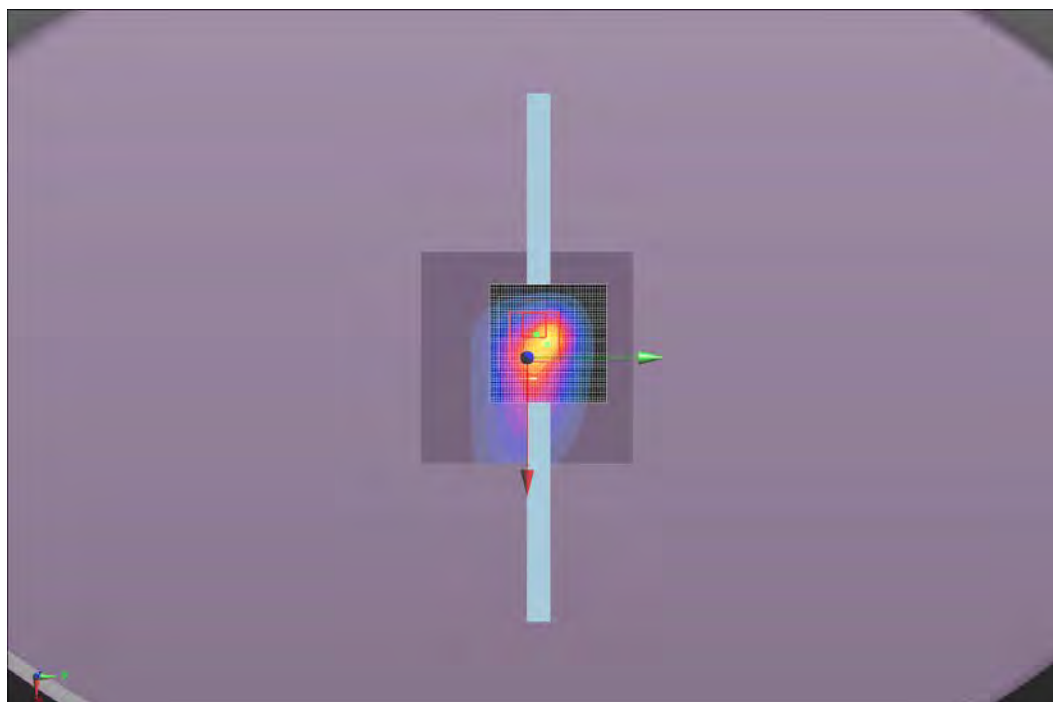
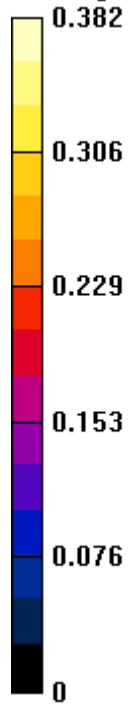
Maximum value of SAR (interpolated) = 2.04 W/kg

Maximum value of SAR (measured) = 0.382 W/kg

Approved By

Test 169
W/kg



Tested By:	Cole Ghizzone	Room Temperature (°C):	24.2
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	35.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1018.8
Comments:	None		

Test 169a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5310 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5310$ MHz; $\sigma = 5.353$ S/m; $\epsilon_r = 48.632$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.520 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.155 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.41 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.217 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.411 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

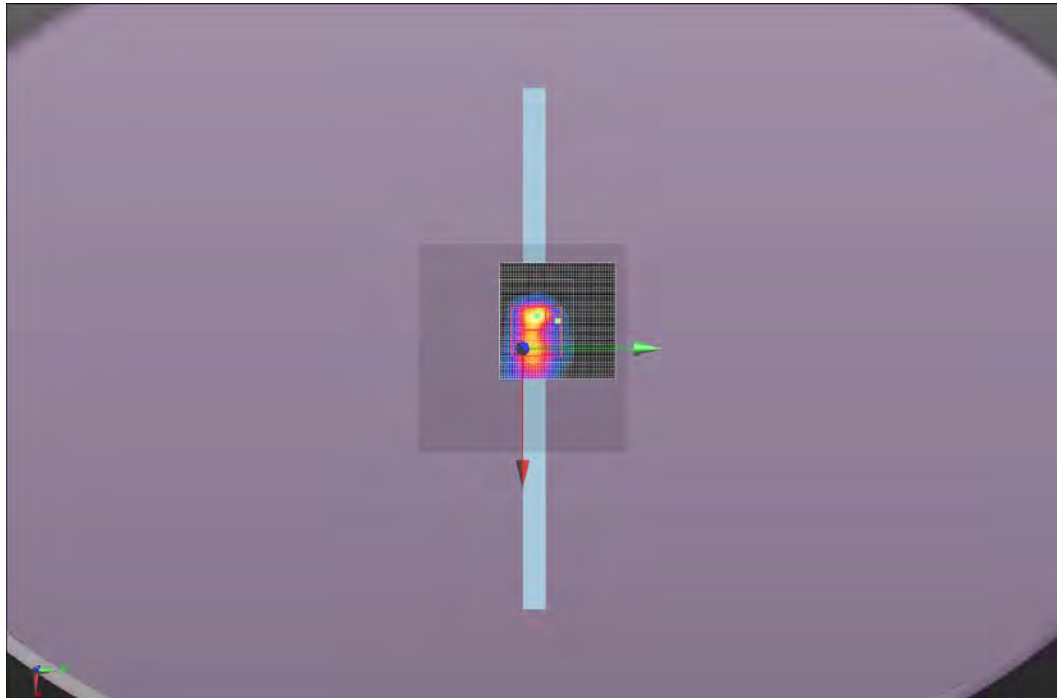
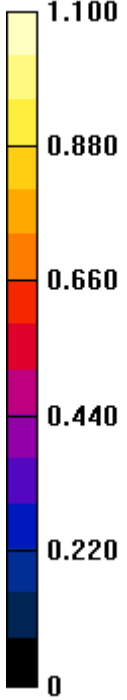
Maximum value of SAR (interpolated) = 1.02 W/kg

Maximum value of SAR (measured) = 0.294 W/kg

Approved By

Test 169a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.4
Date:	4/4/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1014
Comments:	None		

Test 170

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.295$ S/m; $\epsilon_r = 48.754$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (11x11x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.694 V/m; Power Drift = 0.41 dB

Peak SAR (extrapolated) = 0.236 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.116 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.166 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.148 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.497 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

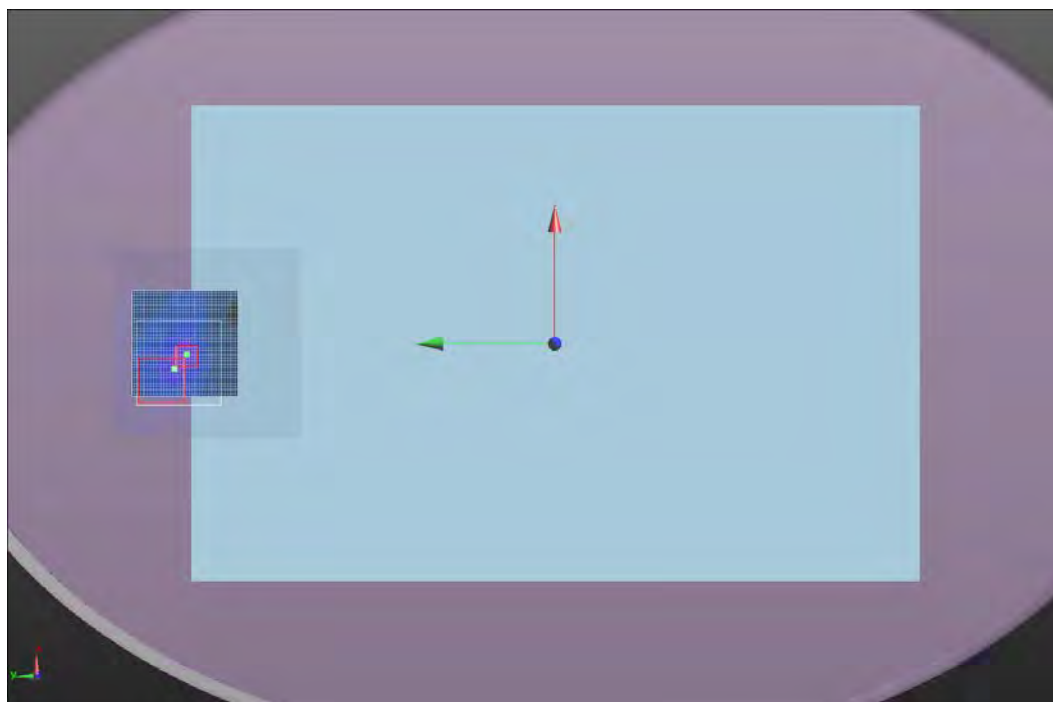
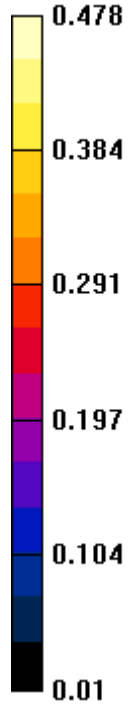
Maximum value of SAR (interpolated) = 0.163 W/kg

Maximum value of SAR (measured) = 0.478 W/kg



Approved By

Test 170
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	24.7
Date:	4/5/2014	Liquid Temperature (°C):	23.4
Serial Number:	010	Humidity (%RH):	32.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 171

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.295$ S/m; $\epsilon_r = 48.754$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (11x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.837 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.83 W/kg

SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.234 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.68 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.359 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 6.954 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

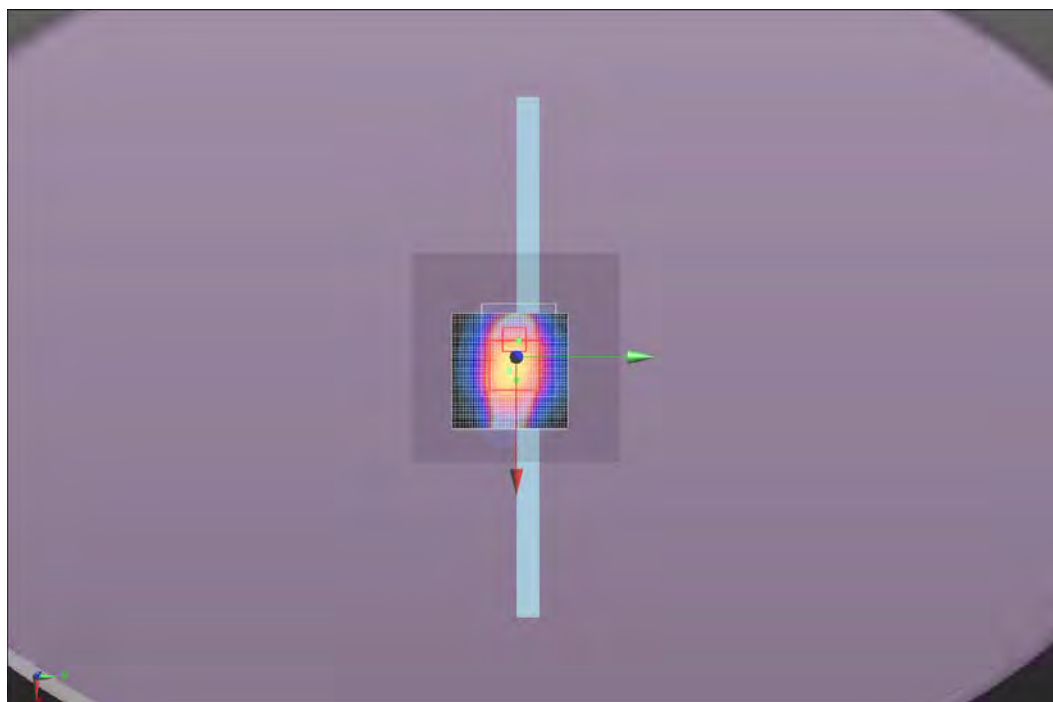
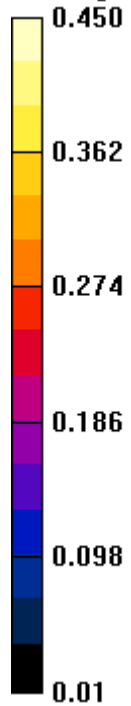
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.55 W/kg

Maximum value of SAR (measured) = 0.256 W/kg

 
Approved By

Test 171
W/kg



Tested By:	Cole Ghizzone	Room Temperature (°C):	22.3
Date:	4/5/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	40
Configuration:	INTE5434-1	Bar. Pressure (mb):	1018.3
Comments:	None		

Test 172

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.295$ S/m; $\epsilon_r = 48.754$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x13x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.957 V/m; Power Drift = 0.23 dB

Peak SAR (extrapolated) = 4.57 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.503 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.14 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.491 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of Total (measured) = 10.28 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

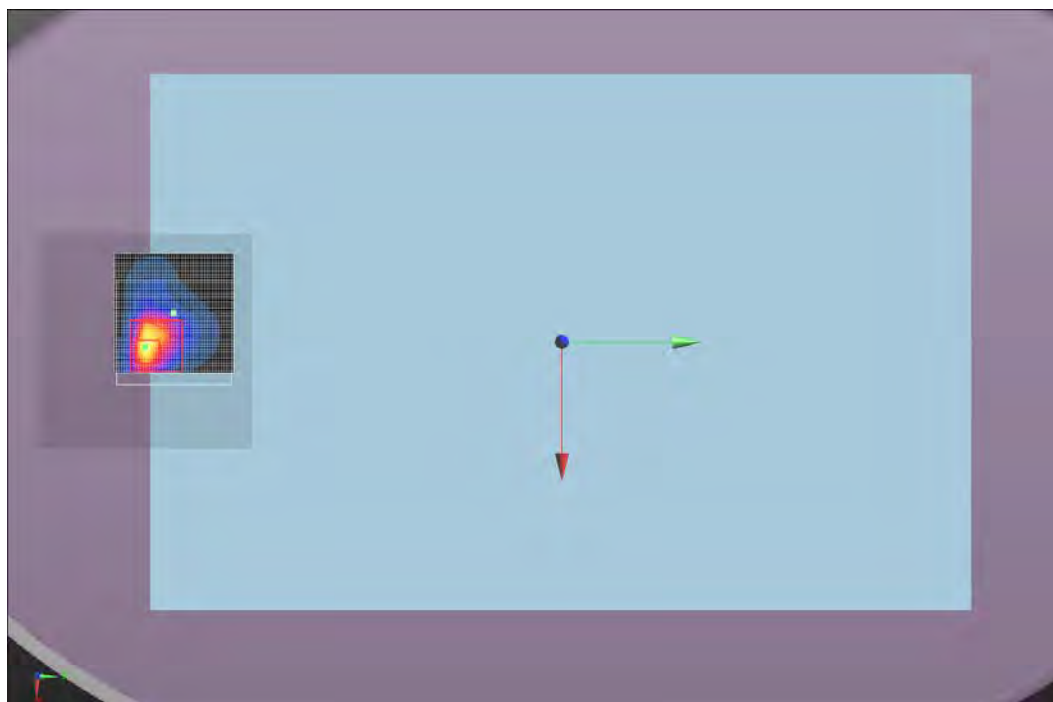
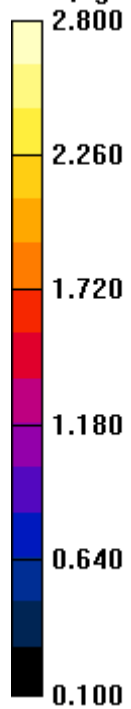
Maximum value of SAR (interpolated) = 2.61 W/kg

Maximum value of SAR (measured) = 0.560 W/kg




Approved By

Test 172
W/kg



Tested By:	Cole Ghizzone	Room Temperature (°C):	22.3
Date:	4/5/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	40
Configuration:	INTE5434-1	Bar. Pressure (mb):	1018.3
Comments:	None		

Test 172a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5310 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5310$ MHz; $\sigma = 5.353$ S/m; $\epsilon_r = 48.632$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x14x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.859 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 0.889 W/kg; SAR(10 g) = 0.419 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.53 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.505 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 11.25 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

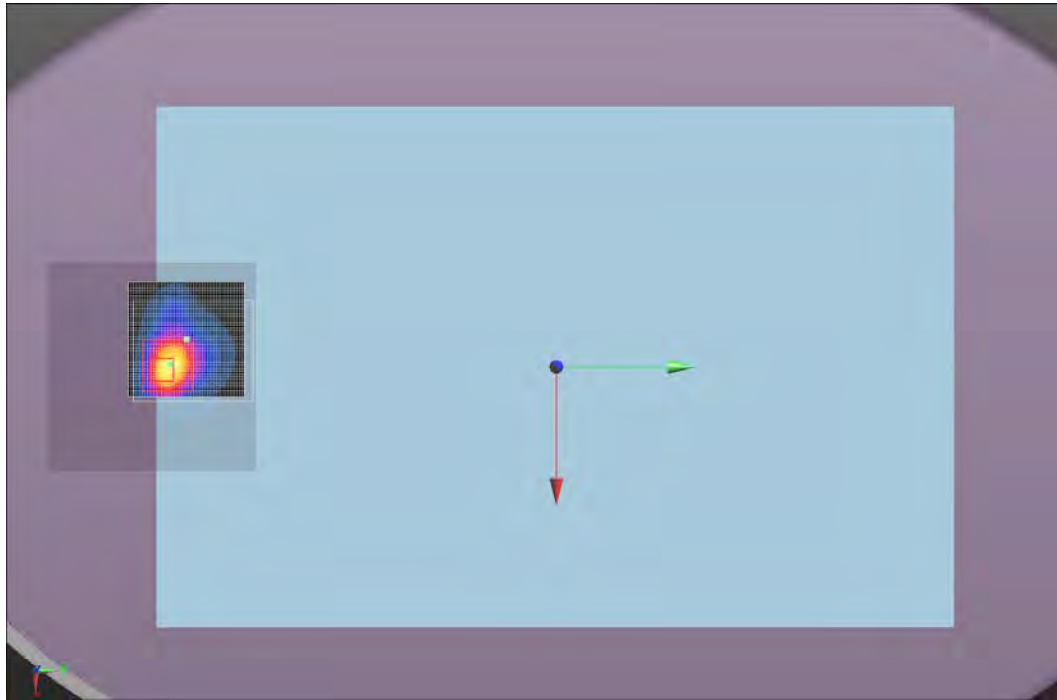
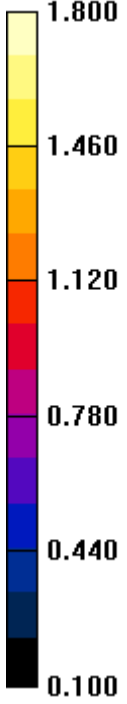
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.63 W/kg

Maximum value of SAR (measured) = 0.678 W/kg

 
Approved By

Test 172a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.8
Date:	4/6/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 185

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.323$ S/m; $\epsilon_r = 48.698$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.371 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 0.558 W/kg; SAR(10 g) = 0.153 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.26 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.110 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.210 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

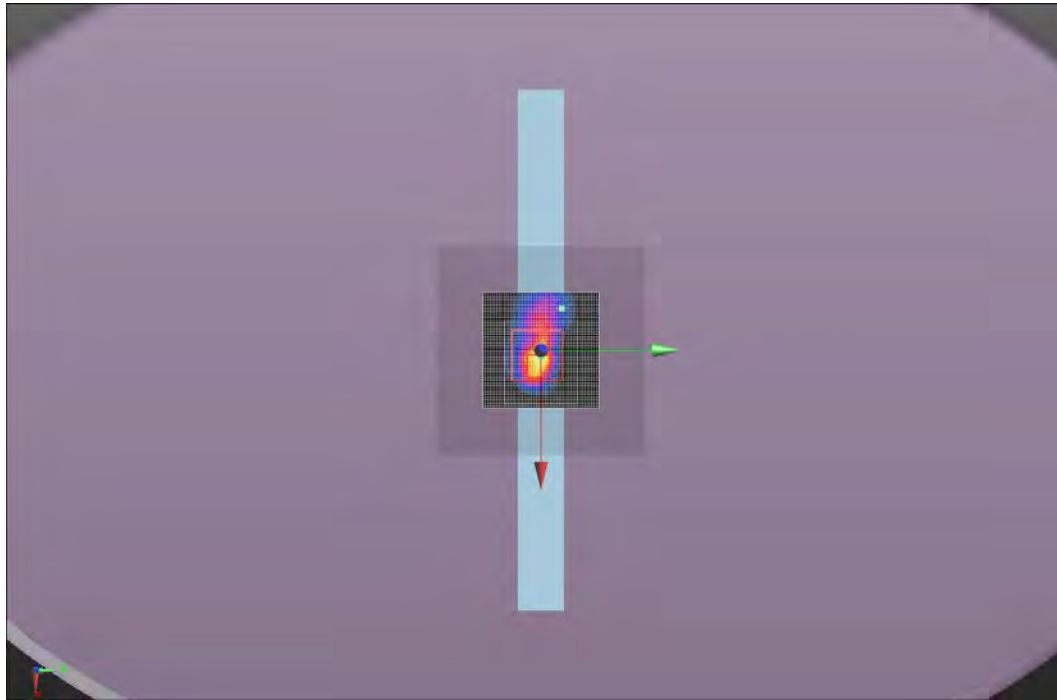
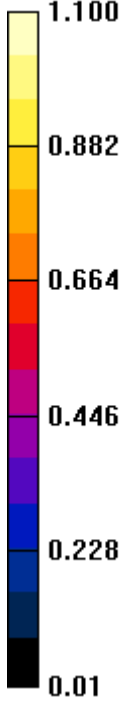
Maximum value of SAR (interpolated) = 1.05 W/kg

Maximum value of SAR (measured) = 0.205 W/kg



Approved By

Test 185
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	24.2
Date:	4/6/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 186

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.323$ S/m; $\epsilon_r = 48.698$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x11x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.180 V/m; Power Drift = 0.70 dB

Peak SAR (extrapolated) = 0.201 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.161 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.199 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0983 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 11.31 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

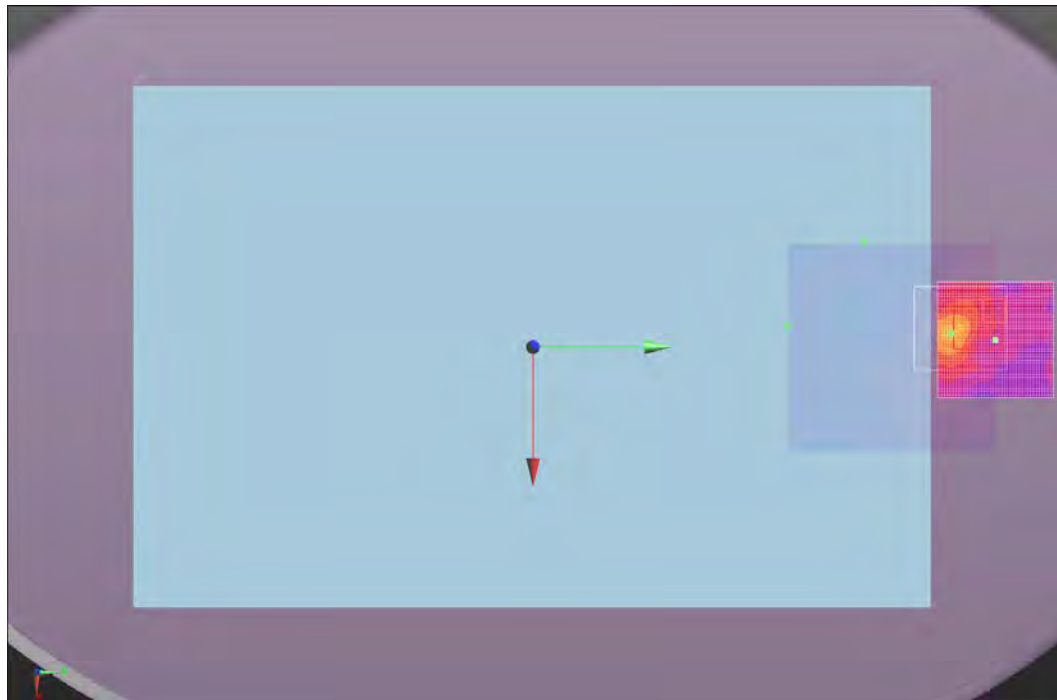
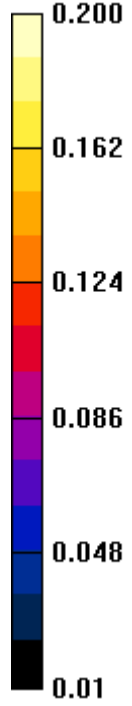
Maximum value of SAR (interpolated) = 0.141 W/kg

Maximum value of SAR (measured) = 0.681 W/kg



Approved By

Test 186
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.8
Date:	4/7/2014	Liquid Temperature (°C):	21.9
Serial Number:	010	Humidity (%RH):	43
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 187

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.323$ S/m; $\epsilon_r = 48.698$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.498 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.256 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.91 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.343 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.639 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

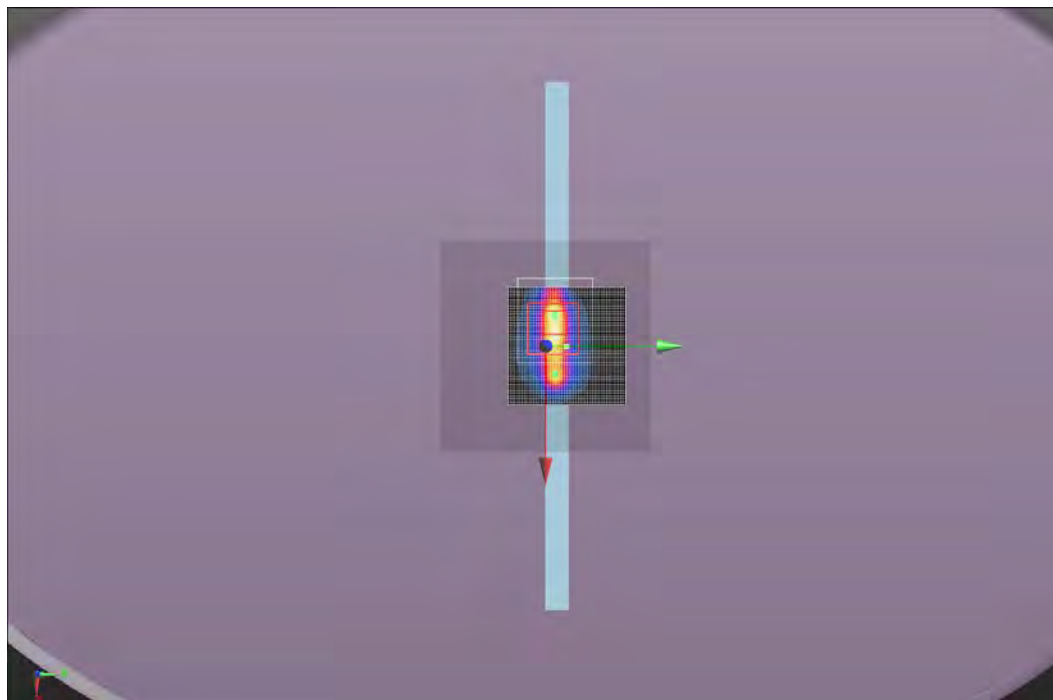
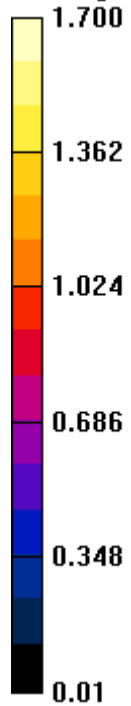
Maximum value of SAR (interpolated) = 1.70 W/kg

Maximum value of SAR (measured) = 0.397 W/kg



Approved By

Test 187
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.3
Date:	4/7/2014	Liquid Temperature (°C):	21.5
Serial Number:	010	Humidity (%RH):	44
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 188

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.346$ S/m; $\epsilon_r = 48.714$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.233 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.456 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.58 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.523 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.99 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

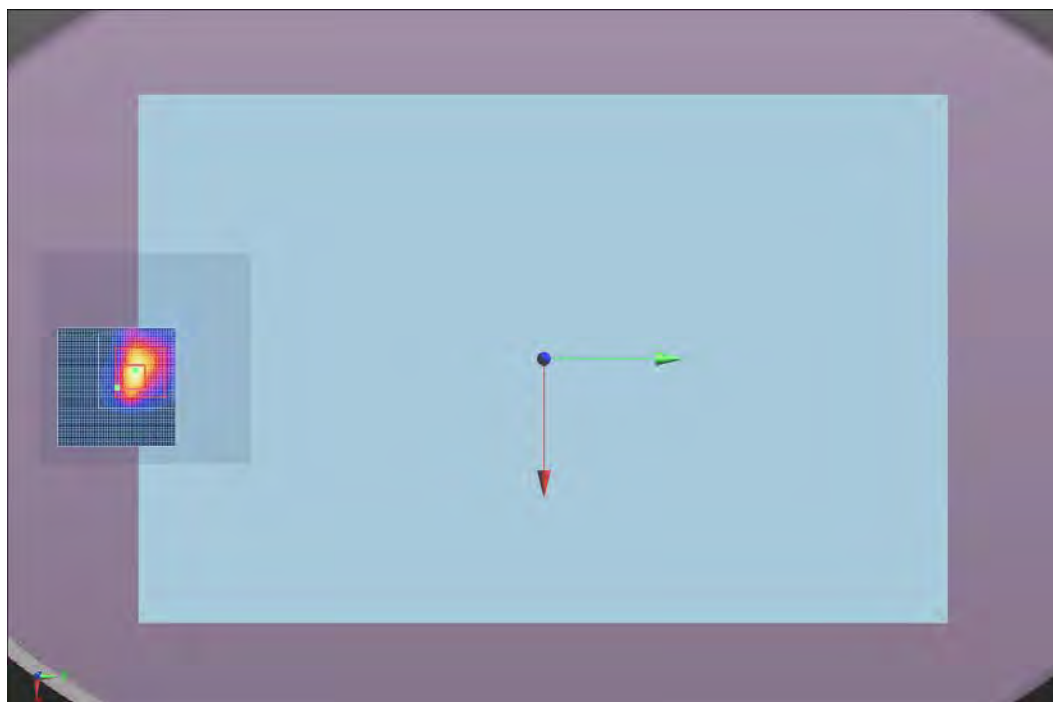
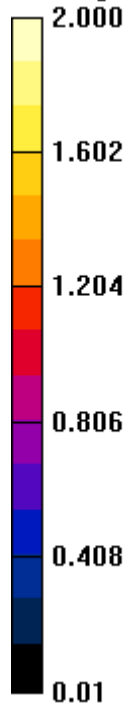
Maximum value of SAR (interpolated) = 2.00 W/kg

Maximum value of SAR (measured) = 0.645 W/kg

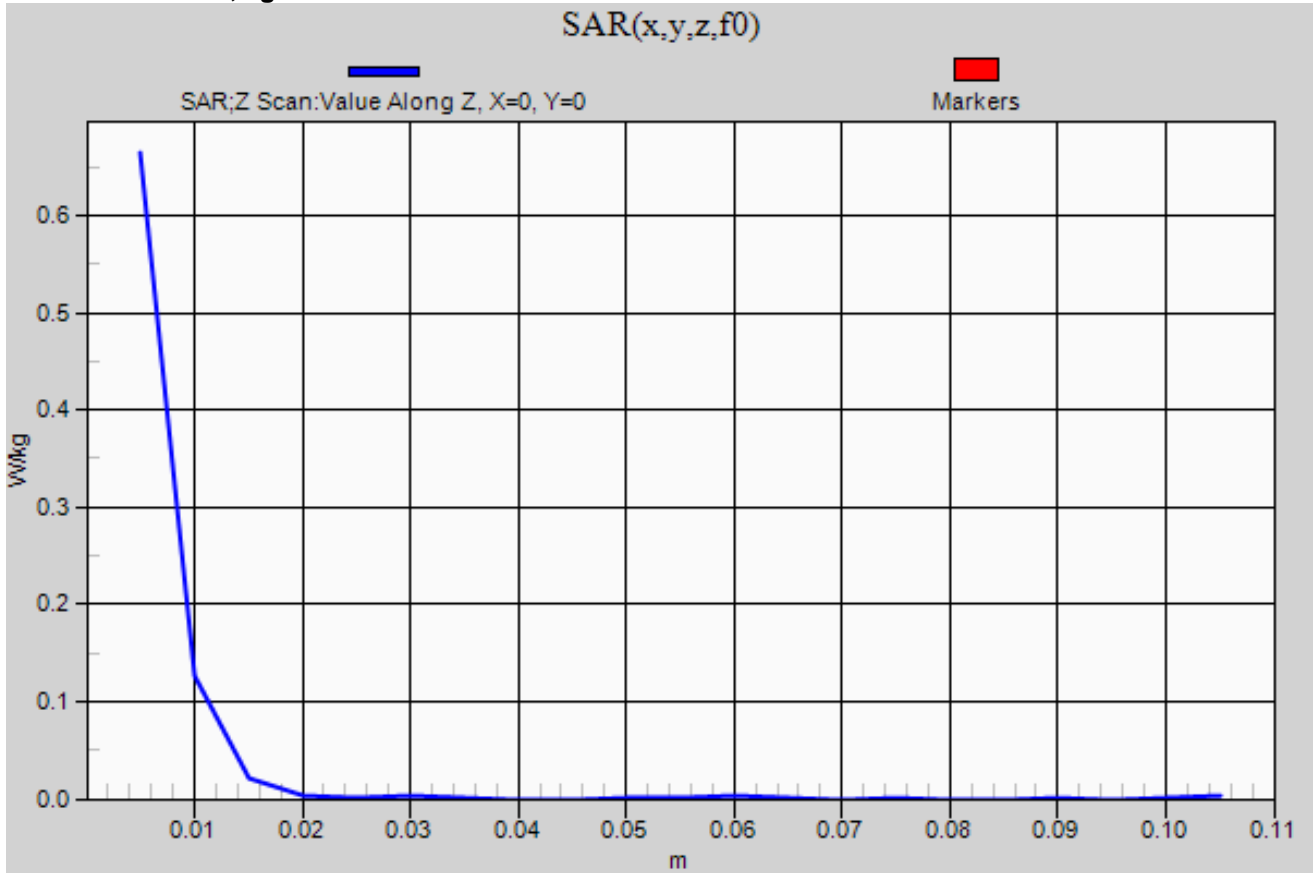


Approved By

Test 188
W/kg



Test 155 – Z Scan, 1g SAR



EUT:	WSBUB-SDS	Work Order:	INTE5434
Customer:	Intel Corporation	Job Site:	EV08
Attendees:	Mike Lowe, Bill Jones	Customer Project:	None

TEST SPECIFICATIONS

Specification:	Method:
FCC 2.1093:2014 FCC 15.247:2014	IEEE Std 1528:2003 FCC KDB 447498 D01 v05r02 FCC KDB 248227 D01 v01r02 FCC KDB 616217 D04 v01r01 FCC 865664 D01 v01r03 and D02 v01r01

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

RESULTS

Test Configuration	Frequency Band	Transmit Frequency (MHz)	Transmit Channel	Data Rate (Mbps)	Channel Bandwidth (MHz)	Antenna Port	Mode	EUT Position	Power Drift During Test (dB)	Measured 1g SAR Level (mW/g)	Measured 10g SAR Level (mW/g)	Test #
Body	5.6	5580	116	6 Mbit	20	A	Tablet	Right Side	-0.04	0.73	0.26	109
Body	5.6	5580	116	6 Mbit	20	A	Tablet	Back	N/A	0.14	0.14	110
Body	5.6	5580	116	6 Mbit	20	A	Tent	Right Side	-0.11	0.81	0.26	111
Body	5.6	5520	104	6 Mbit	20	A	Tent	Right Side	-0.17	0.94	0.29	111a
Body	5.6	5680	136	6 Mbit	20	A	Tent	Right Side	-0.11	1.12	0.34	111b
Body	5.6	5580	116	6 Mbit	20	A	Tent	Back	-0.44	1.18	0.51	112
Body	5.6	5680	136	6 Mbit	20	A	Tent	Back	0.08	1.43	0.55	112b
Body	5.6	5520	104	6 Mbit	20	A	Tent	Back	0.01	0.99	0.31	112c
Body	5.6	5550	108/112	MCS0	40	A	Tablet	Right Side	0.05	0.65	0.24	125
Body	5.6	5550	108/112	MCS0	40	A	Tablet	Back	-0.49	0.17	0.15	126
Body	5.6	5550	108/112	MCS0	40	A	Tent	Right Side	0.03	0.83	0.25	127
Body	5.6	5510	100/104	MCS0	40	A	Tent	Right Side	-0.08	0.41	0.13	127a
Body	5.6	5670	132/136	MCS0	40	A	Tent	Right Side	0.00	0.79	0.24	127b
Body	5.6	5510	100/104	MCS0	40	A	Tent	Back	-0.04	0.87	0.36	128b
Body	5.6	5550	108/112	MCS0	40	A	Tent	Back	0.01	1.42	0.44	128f
Body	5.6	5670	132/136	MCS0	40	A	Tent	Back	-0.05	1.18	0.36	128g
Body	5.6	5530	106	MCS0	80	A	Tablet	Right Side	0.22	0.34	0.13	141
Body	5.6	5530	106	MCS0	80	A	Tablet	Back	N/A	0.13	0.13	142
Body	5.6	5530	106	MCS0	80	A	Tent	Right Side	-0.06	0.39	0.12	143
Body	5.6	5530	106	MCS0	80	A	Tent	Back	-0.22	0.99	0.41	144
Body	5.6	5520	104	6 Mbit	20	B	Tablet	Left Side	-0.05	0.37	0.10	157a
Body	5.6	5520	104	6 Mbit	20	B	Tablet	Back	0.15	0.19	0.17	158a
Body	5.6	5580	116	6 Mbit	20	B	Tent	Left Side	-0.18	1.08	0.30	159a1
Body	5.6	5680	136	6 Mbit	20	B	Tent	Left Side	-0.15	1.27	0.35	159e
Body	5.6	5520	104	6 Mbit	20	B	Tent	Left Side	-0.04	1.20	0.34	159f
Body	5.6	5520	104	6 Mbit	20	B	Tent	Back	-0.02	1.28	0.53	160
Body	5.6	5580	116	6 Mbit	20	B	Tent	Back	-0.11	1.49	0.54	160c
Body	5.6	5680	136	6 Mbit	20	B	Tent	Back	-0.27	1.39	0.49	160d
Body	5.6	5550	108/112	MCS0	40	B	Tablet	Left Side	-0.45	0.97	0.29	173
Body	5.6	5510	100/104	MCS0	40	B	Tablet	Left Side	-0.25	0.50	0.15	173a
Body	5.6	5670	132/136	MCS0	40	B	Tablet	Left Side	-0.05	0.76	0.22	173b
Body	5.6	5550	108/112	MCS0	40	B	Tablet	Back	-0.12	0.16	0.15	174
Body	5.6	5550	108/112	MCS0	40	B	Tent	Left Side	0.02	1.00	0.26	175b
Body	5.6	5510	100/104	MCS0	40	B	Tent	Left Side	0.16	1.17	0.33	175c
Body	5.6	5670	132/136	MCS0	40	B	Tent	Left Side	-0.03	0.77	0.22	175d
Body	5.6	5550	108/112	MCS0	40	B	Tent	Back	0.05	1.24	0.54	176
Body	5.6	5510	100/104	MCS0	40	B	Tent	Back	-0.01	0.44	0.23	176a
Body	5.6	5670	132/136	MCS0	40	B	Tent	Back	-0.02	0.58	0.32	176b
Body	5.6	5530	106	MCS0	80	B	Tablet	Left Side	-0.02	0.52	0.15	189
Body	5.6	5530	106	MCS0	80	B	Tablet	Back	N/A	0.22	0.22	190a
Body	5.6	5530	106	MCS0	80	B	Tent	Left Side	-0.03	0.76	0.21	191

Body	5.6	5530	106	MCS0	80	B	Tent	Back	0.01	0.93	0.42	192
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Tested By:	Ethan Schoonover	Room Temperature (°C):	23
Date:	3/31/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	29.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 109

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5580 \text{ MHz}$; $\sigma = 5.874 \text{ S/m}$; $\epsilon_r = 47.497$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.683 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.265 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.61 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.351 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.104 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

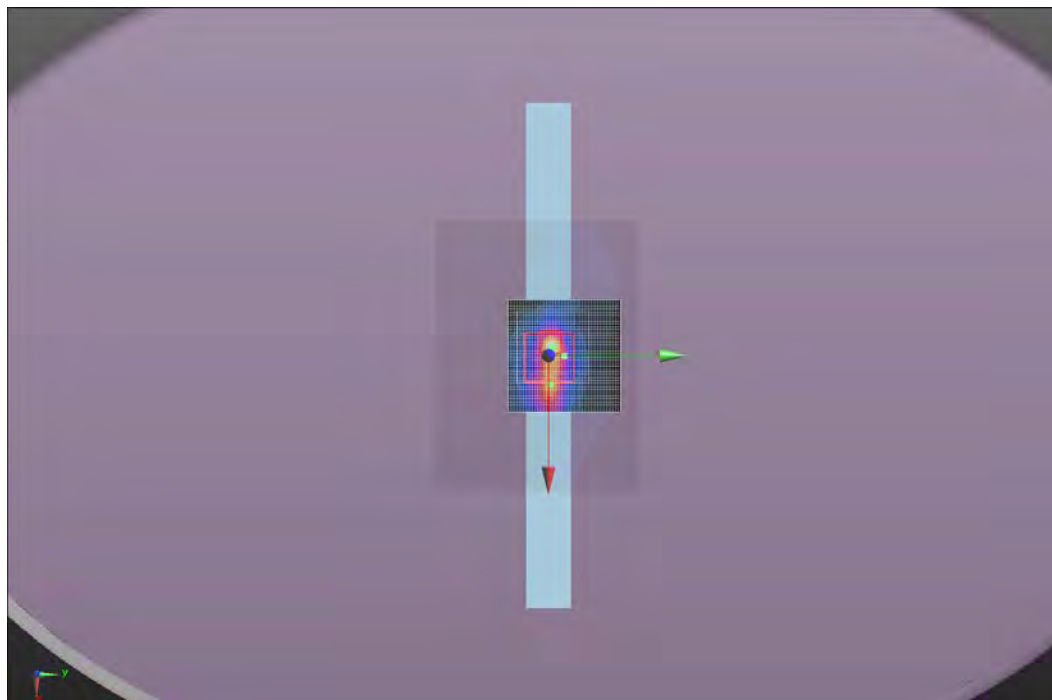
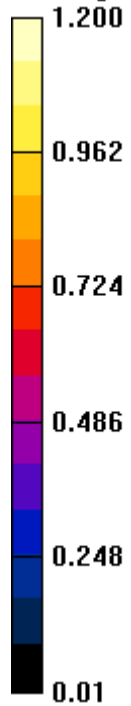
Maximum value of SAR (interpolated) = 1.22 W/kg

Maximum value of SAR (measured) = 0.219 W/kg




Approved By

Test 109
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.5
Date:	3/31/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	27.8
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 110

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5580$ MHz; $\sigma = 5.874$ S/m; $\epsilon_r = 47.497$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.135 W/kg

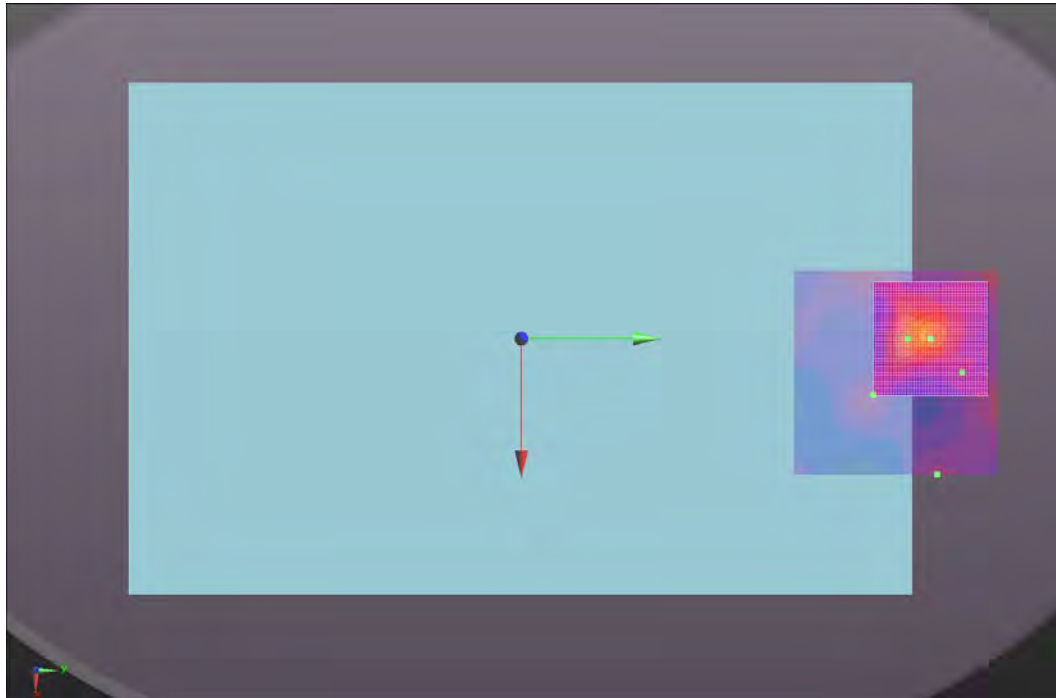
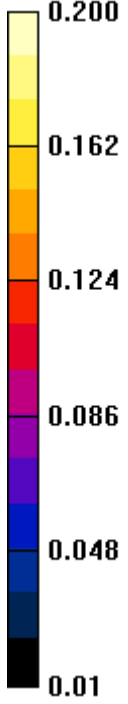
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.142 W/kg

 
Approved By

Test 110
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.7
Date:	4/1/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	31.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 111

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5580$ MHz; $\sigma = 5.874$ S/m; $\epsilon_r = 47.497$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.318 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.257 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.80 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.249 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.980 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

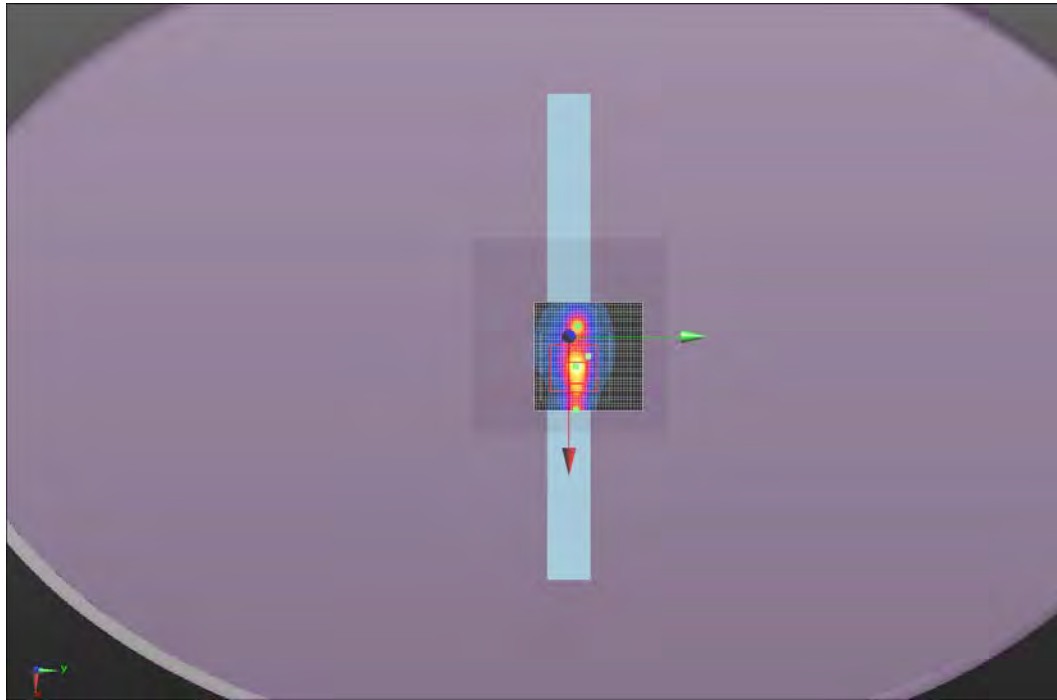
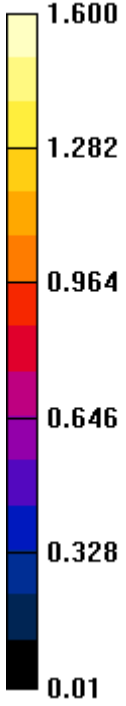
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.63 W/kg

Maximum value of SAR (measured) = 0.374 W/kg

 
Approved By

Test 111
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.7
Date:	4/1/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	31.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 111a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.768$ S/m; $\epsilon_r = 47.725$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.378 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 0.939 W/kg; SAR(10 g) = 0.290 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.95 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.305 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.573 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.41 W/kg

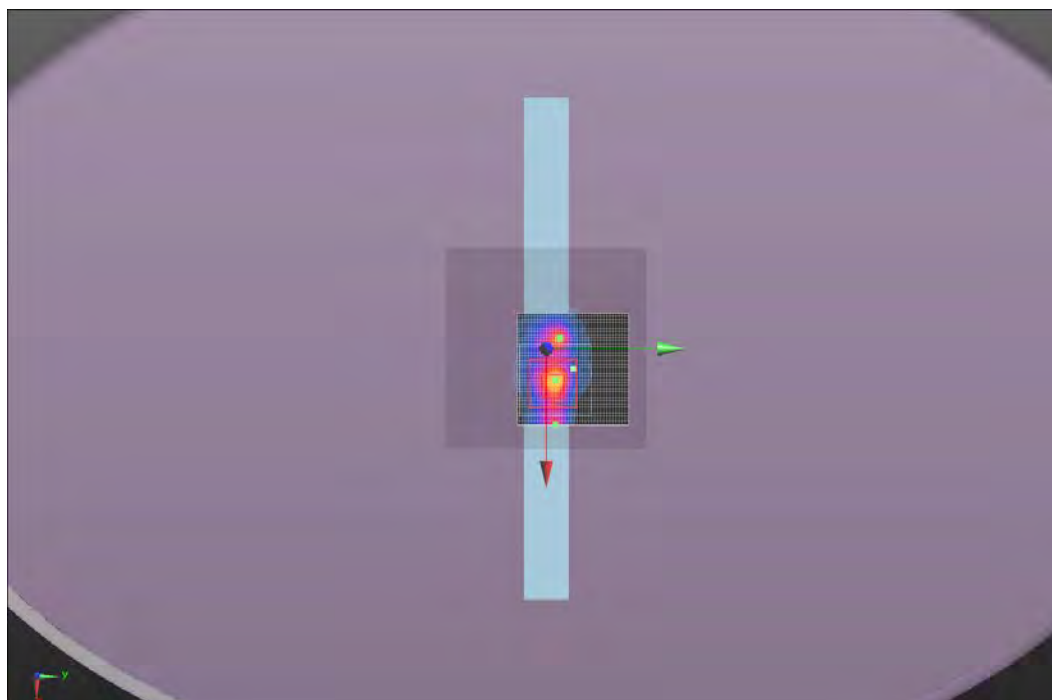
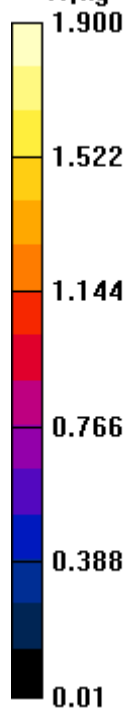
Maximum value of SAR (measured) = 0.424 W/kg

Approved By

Test 111a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/1/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	31.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 111b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5680 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5680$ MHz; $\sigma = 6.038$ S/m; $\epsilon_r = 47.101$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.947 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 4.97 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.344 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.41 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.329 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.000 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

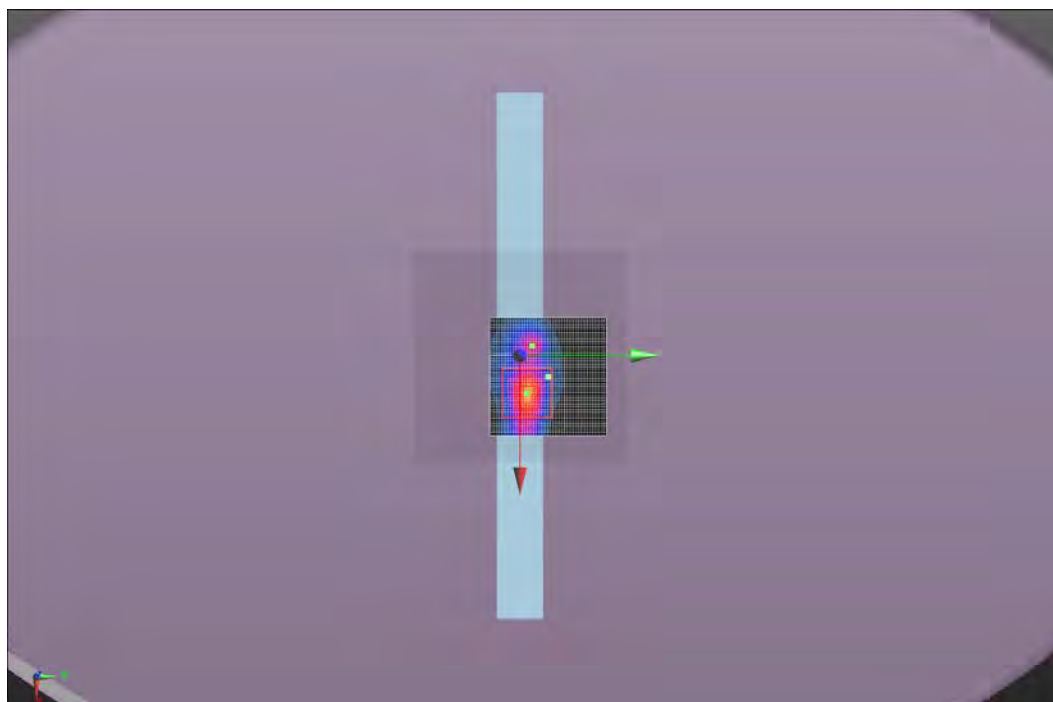
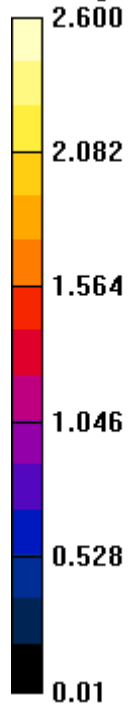
Maximum value of SAR (interpolated) = 1.66 W/kg

Maximum value of SAR (measured) = 0.489 W/kg

Approved By

Test 111b
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.3
Date:	4/1/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	36.5
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 112

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5580$ MHz; $\sigma = 5.874$ S/m; $\epsilon_r = 47.497$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.322 V/m; Power Drift = -0.44 dB

Peak SAR (extrapolated) = 4.42 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.506 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.17 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.664 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 13.39 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

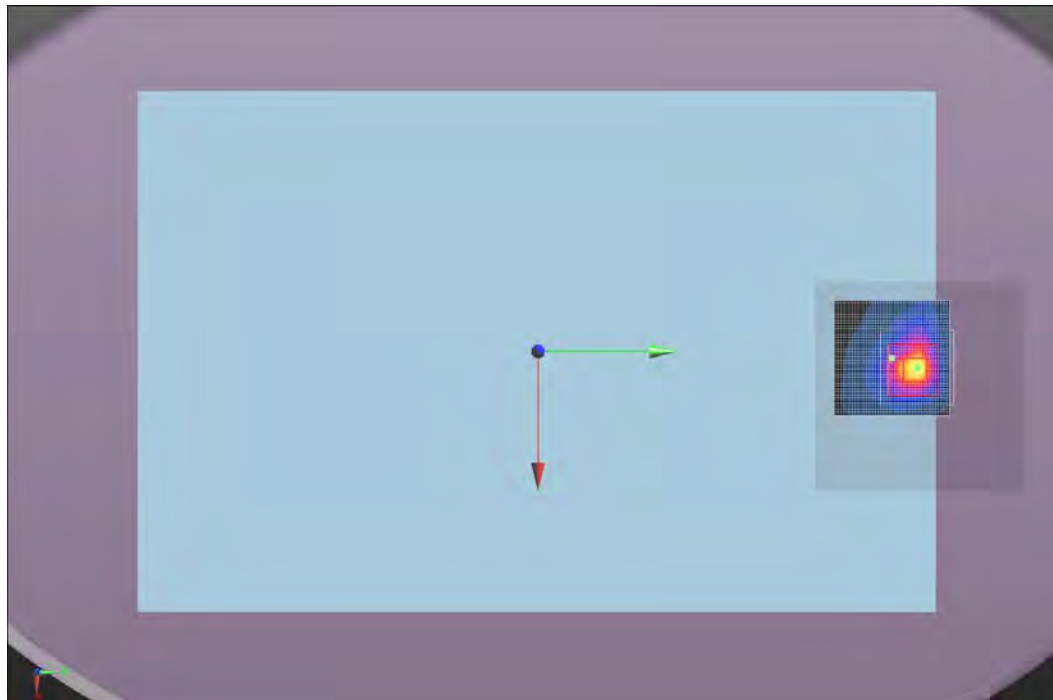
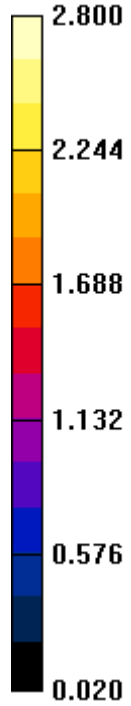
Maximum value of SAR (interpolated) = 2.55 W/kg

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

Approved By

Test 112
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.3
Date:	4/1/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	36.5
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 112b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5680 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5680$ MHz; $\sigma = 6.038$ S/m; $\epsilon_r = 47.101$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.772 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 5.89 W/kg

SAR(1 g) = 1.43 W/kg; SAR(10 g) = 0.551 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.74 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.47 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.17 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

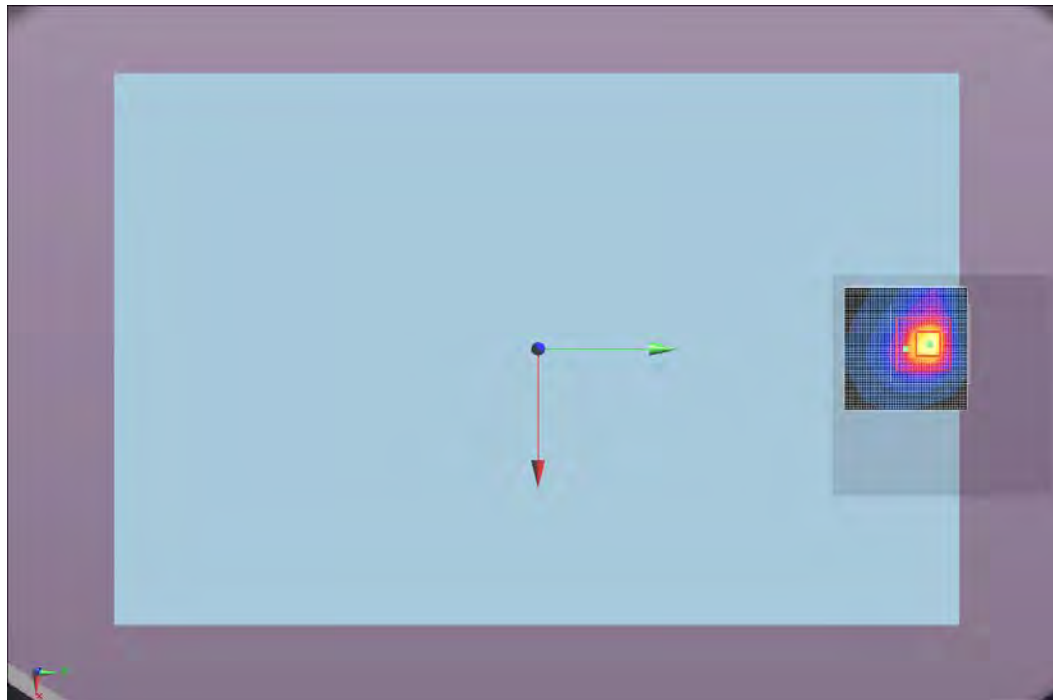
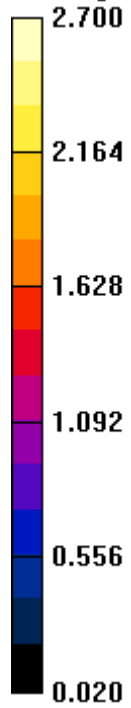
Maximum value of SAR (interpolated) = 2.61 W/kg

Maximum value of SAR (measured) = 0.624 W/kg

 
Approved By

Test 112b

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/9/2014	Liquid Temperature (°C):	23.2
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 12.0		

Test 112c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.721$ S/m; $\epsilon_r = 47.875$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.725 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.309 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.96 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.340 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

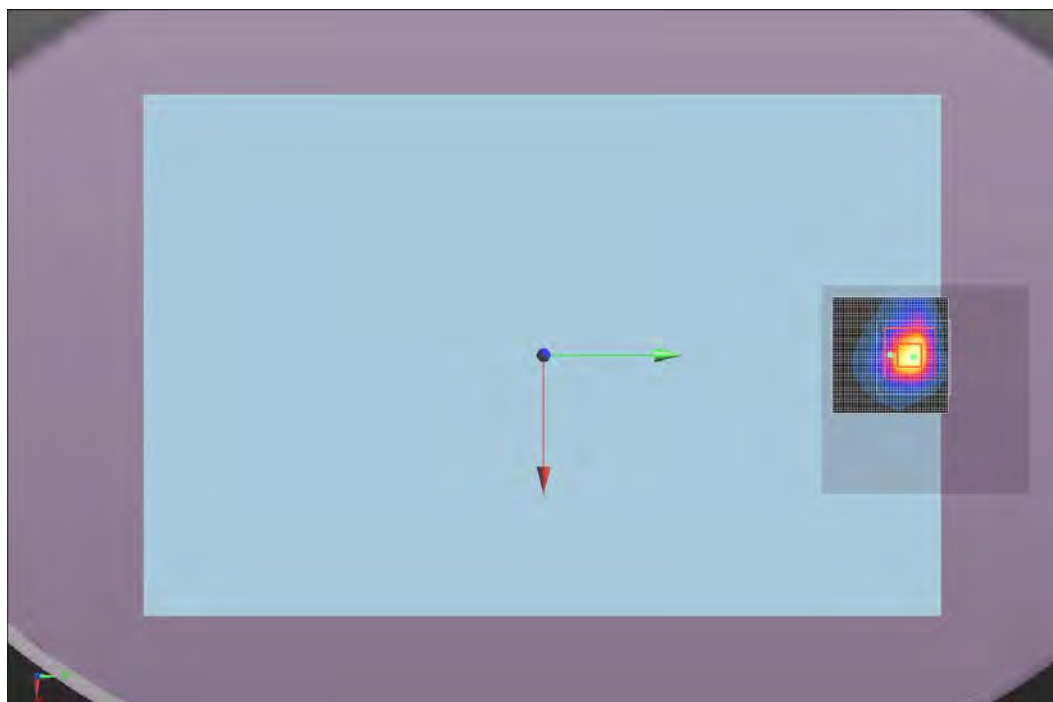
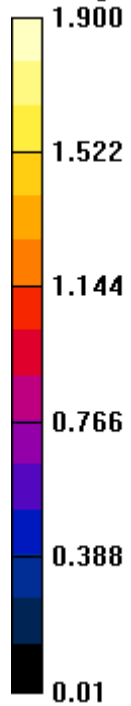
Maximum value of SAR (interpolated) = 1.87 W/kg

Maximum value of SAR (measured) = 0.398 W/kg

Approved By

Test 112c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.6
Date:	4/2/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	30.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 125

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.821 \text{ S/m}$; $\epsilon_r = 47.621$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x10x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.954 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.243 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.396 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 6.907 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

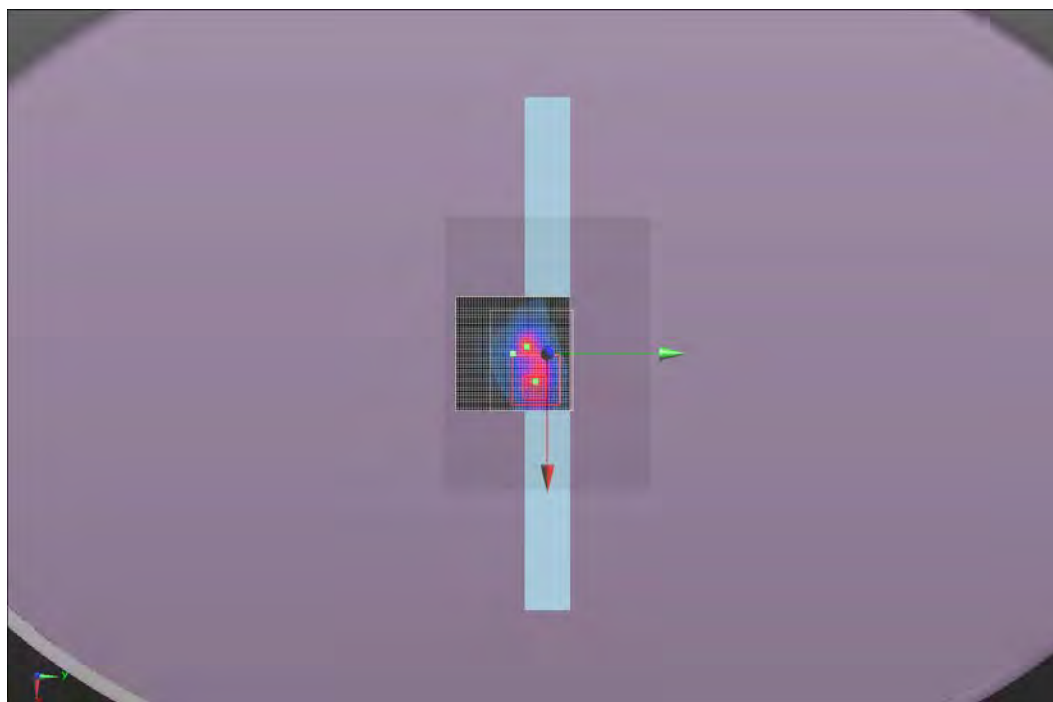
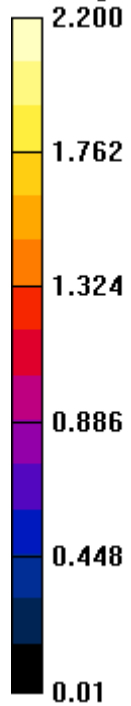
Maximum value of SAR (interpolated) = 1.27 W/kg

Maximum value of SAR (measured) = 0.278 W/kg




Approved By

Test 125
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.2
Date:	4/2/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	31
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 126

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.821 \text{ S/m}$; $\epsilon_r = 47.621$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.058 V/m; Power Drift = -0.49 dB

Peak SAR (extrapolated) = 0.208 W/kg

SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.150 W/kg

Maximum value of SAR (measured) = 0.208 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.145 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 9.844 V/m

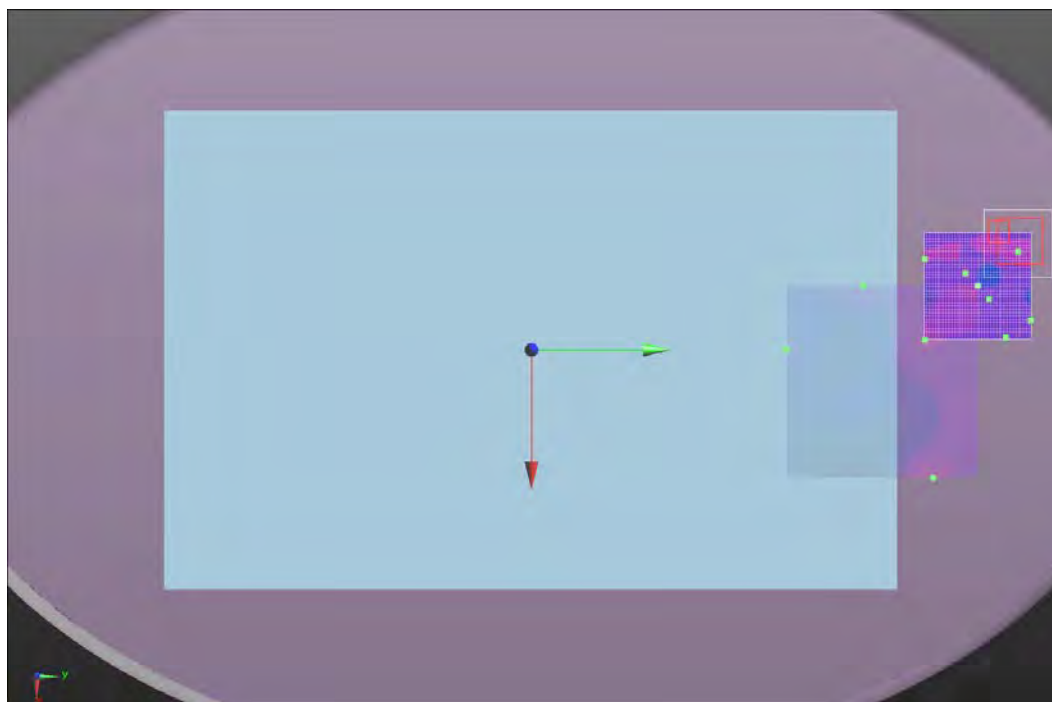
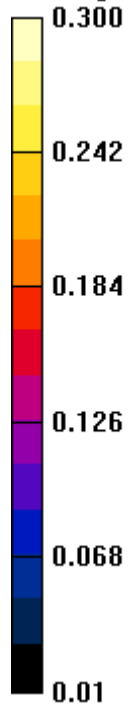
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.117 W/kg

Maximum value of SAR (measured) = 0.564 W/kg

Approved By

Test 126
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.2
Date:	4/1/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 127

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.821 \text{ S/m}$; $\epsilon_r = 47.621$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.392 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.73 W/kg

SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.253 W/kg

Maximum value of SAR (measured) = 1.73 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.275 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 7.940 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

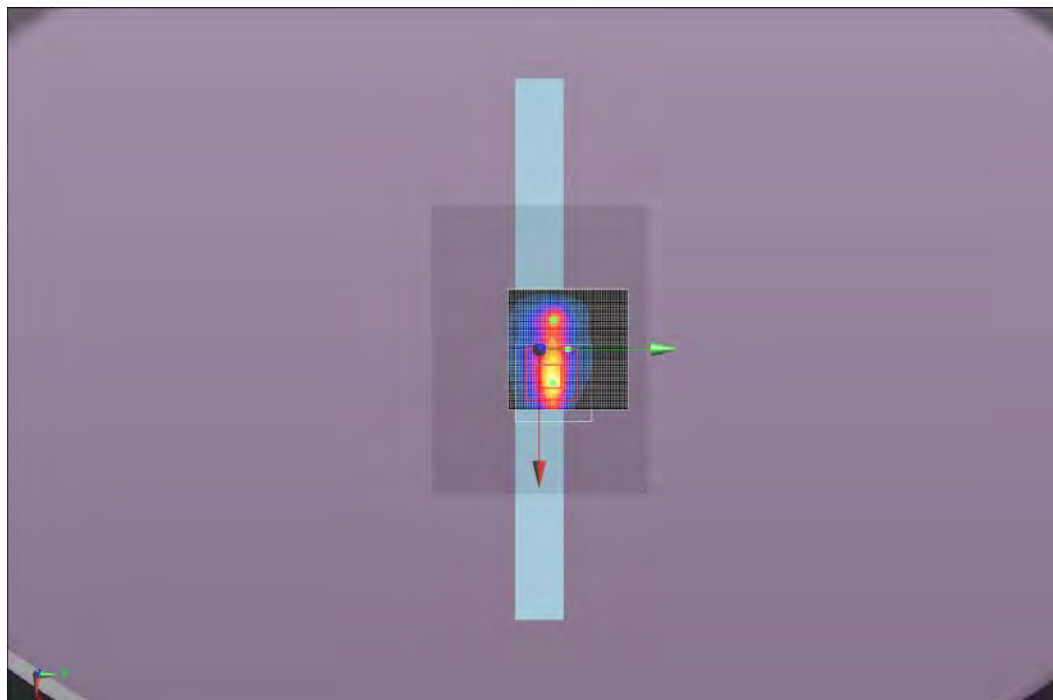
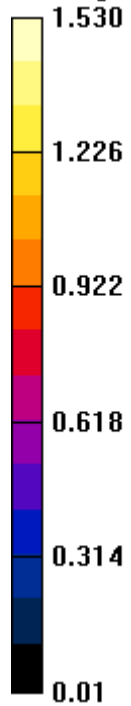
Maximum value of SAR (interpolated) = 1.52 W/kg

Maximum value of SAR (measured) = 0.367 W/kg



Approved By

Test 127
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.8
Date:	4/1/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 127a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5510 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.751$ S/m; $\epsilon_r = 47.76$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.799 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.128 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.864 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.150 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.705 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

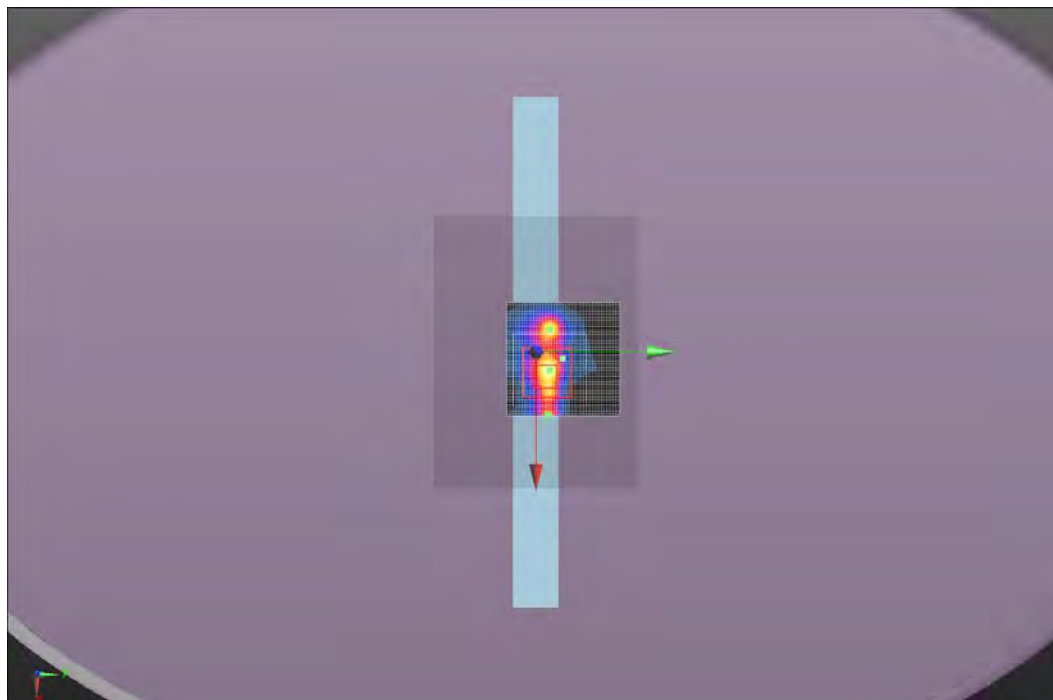
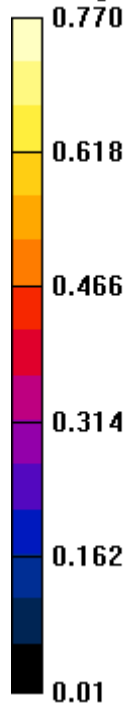
Maximum value of SAR (interpolated) = 0.767 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



Approved By

Test 127a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/1/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	41
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 127b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5670 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 6.022$ S/m; $\epsilon_r = 47.142$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.890 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.49 W/kg

SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.238 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.66 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.262 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.598 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.53 W/kg

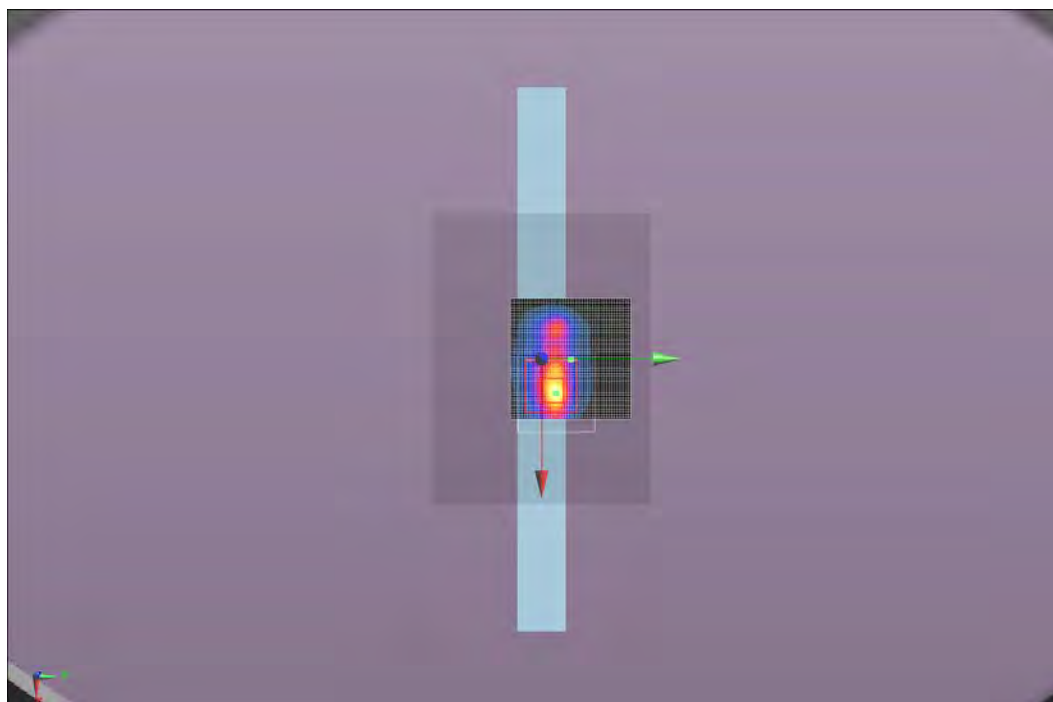
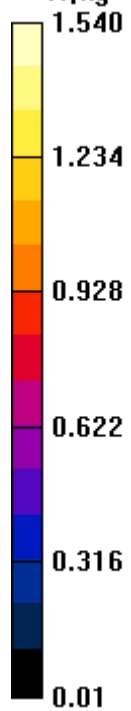
Maximum value of SAR (measured) = 0.348 W/kg



Approved By

Test 127b

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/2/2014	Liquid Temperature (°C):	21
Serial Number:	10	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1017
Comments:	None		

Test 128b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 10

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5510 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.751$ S/m; $\epsilon_r = 47.76$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.371 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.361 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.60 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.377 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.10 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

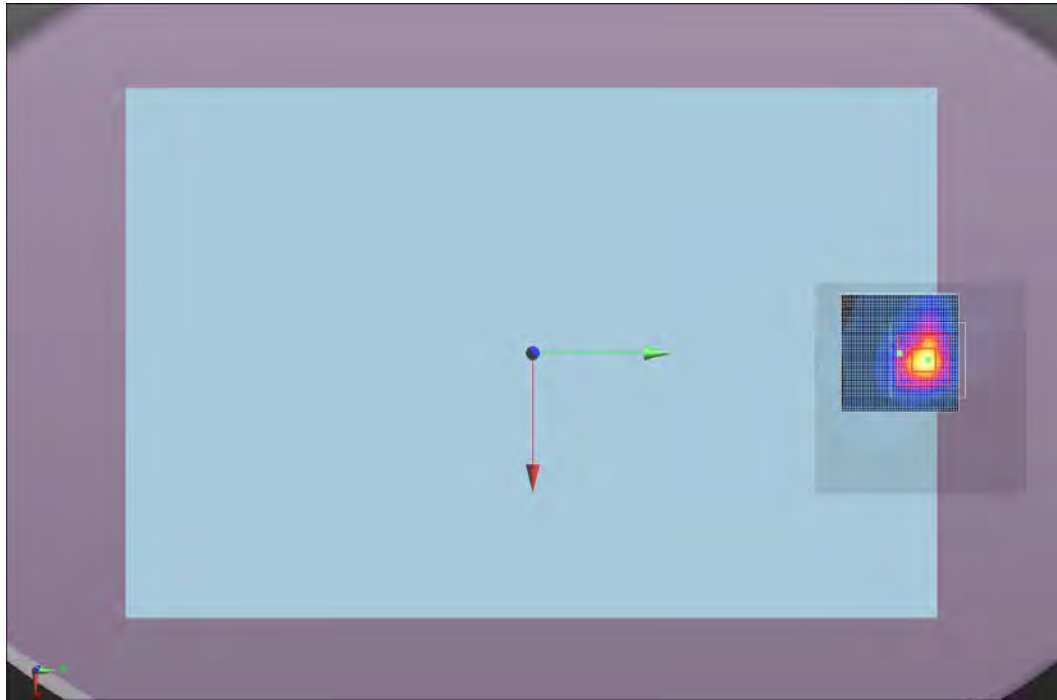
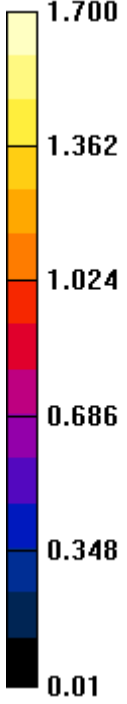
Maximum value of SAR (interpolated) = 1.67 W/kg

Maximum value of SAR (measured) = 0.587 W/kg



Approved By

Test 128b
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.3
Date:	4/9/2014	Liquid Temperature (°C):	21.5
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	Power level 14.0		

Test 128f

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.772 \text{ S/m}$; $\epsilon_r = 47.745$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 20.036 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 6.26 W/kg

SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.437 W/kg

Maximum value of SAR (measured) = 2.92 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 1.50 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 9.807 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

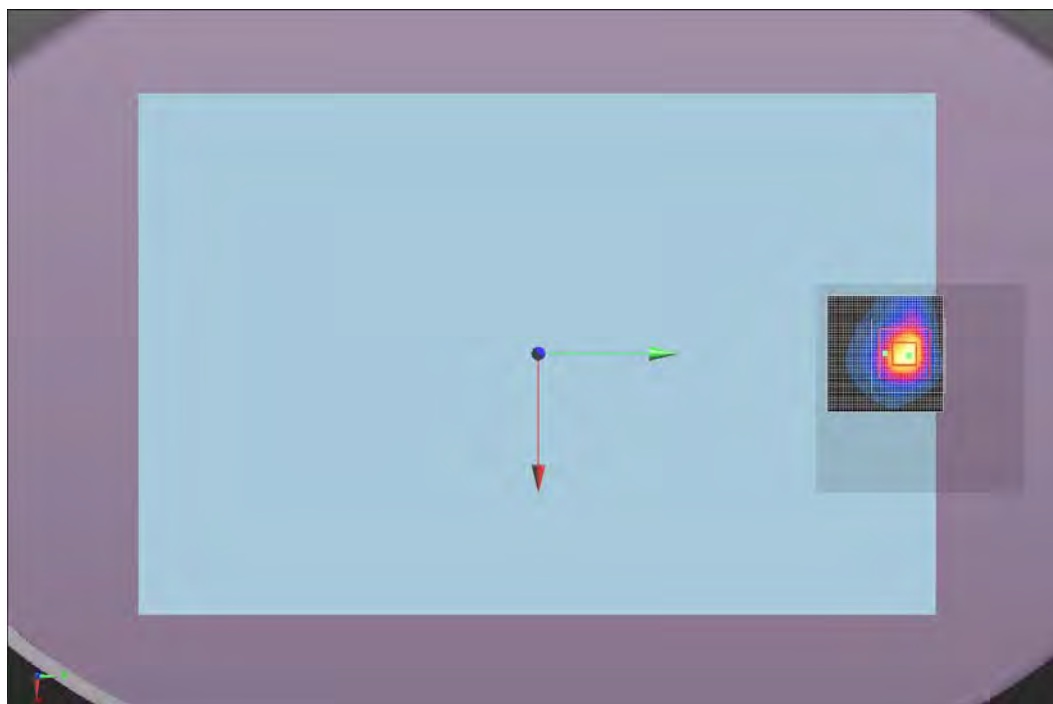
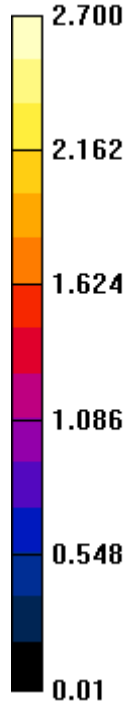
Maximum value of SAR (interpolated) = 2.67 W/kg

Maximum value of SAR (measured) = 0.555 W/kg



Approved By

Test 128f
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.5
Date:	4/9/2014	Liquid Temperature (°C):	21.5
Serial Number:	010	Humidity (%RH):	34
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	Power level 13.0		

Test 128g

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5670 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 5.976$ S/m; $\epsilon_r = 47.255$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.943 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 5.24 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.357 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.42 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.27 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.640 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

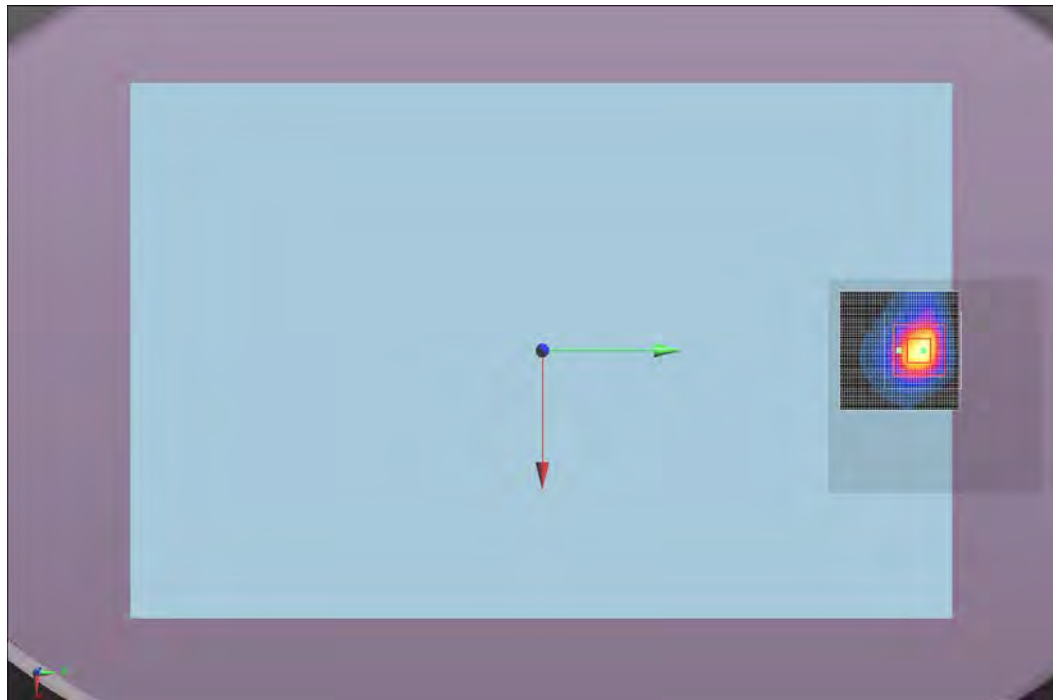
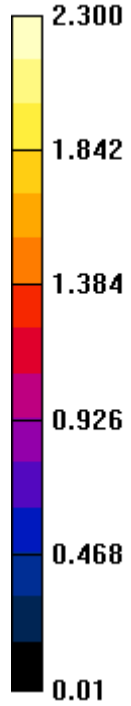
Maximum value of SAR (interpolated) = 2.27 W/kg

Maximum value of SAR (measured) = 0.446 W/kg



Approved By

Test 128g
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 141

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.786$ S/m; $\epsilon_r = 47.69$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.101 V/m; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.134 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.723 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.147 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.612 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

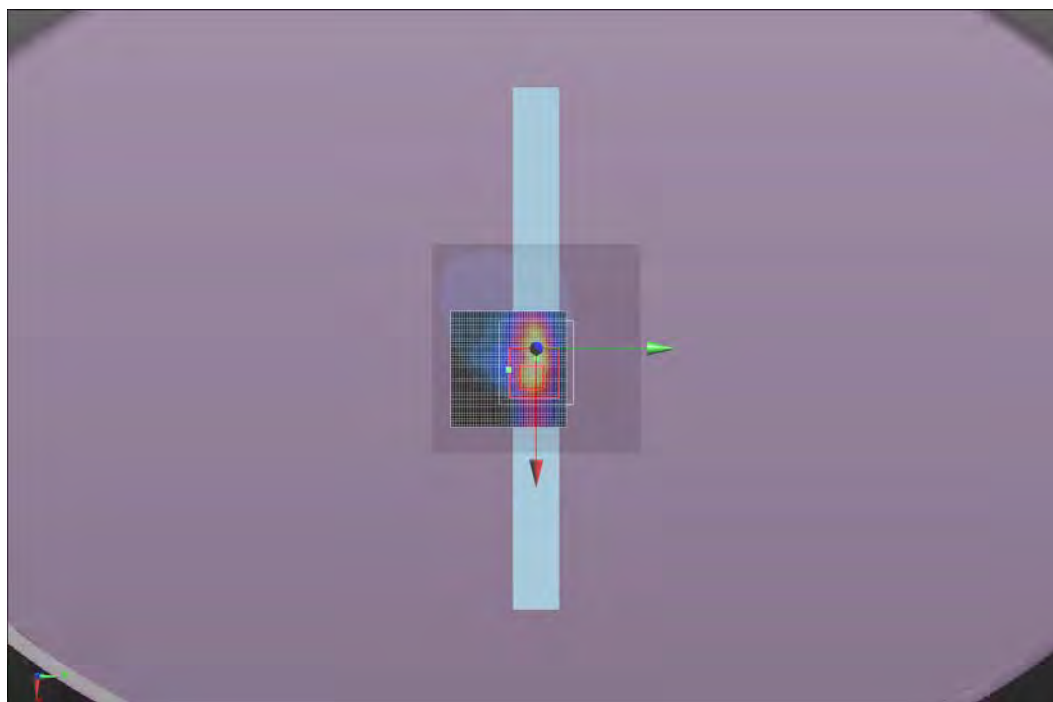
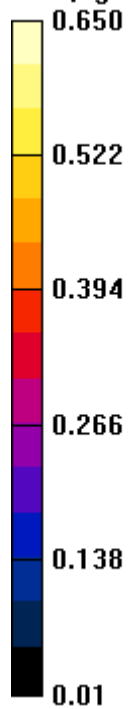
Maximum value of SAR (interpolated) = 0.650 W/kg

Maximum value of SAR (measured) = 0.182 W/kg

Approved By

Test 141
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 142

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.786$ S/m; $\epsilon_r = 47.69$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.142 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

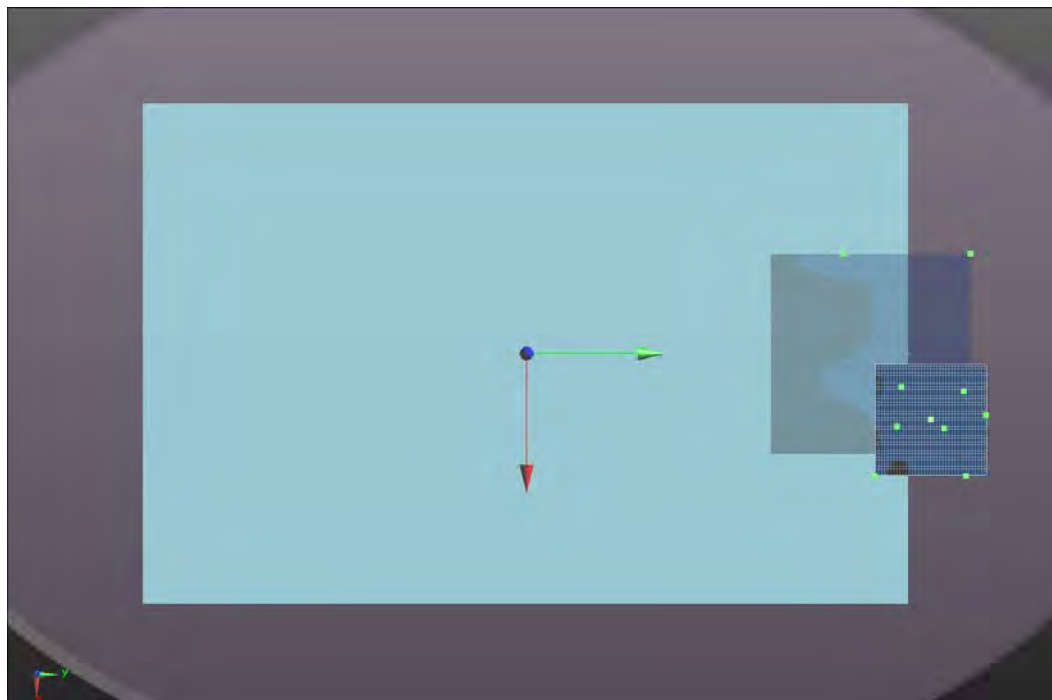
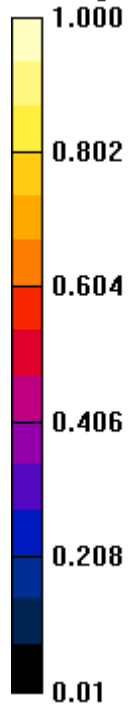
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.127 W/kg

Approved By

Test 142
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	35.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 143

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.786$ S/m; $\epsilon_r = 47.69$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.325 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.123 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.824 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.112 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.193 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

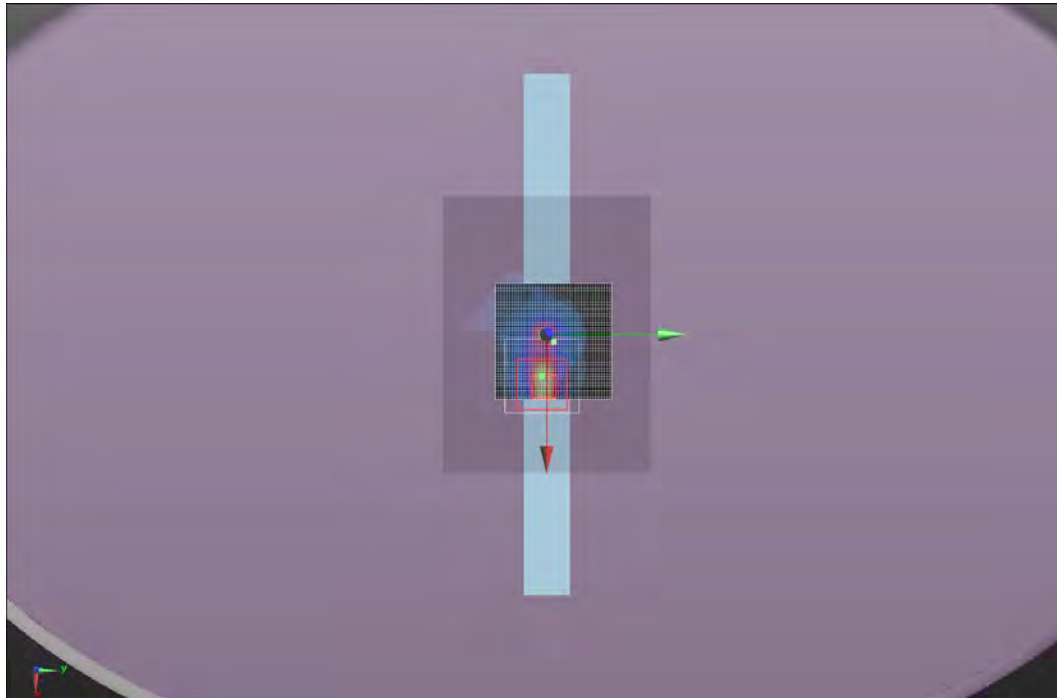
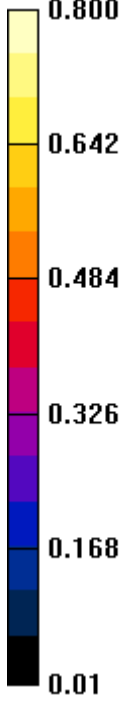
Maximum value of SAR (interpolated) = 0.764 W/kg

Maximum value of SAR (measured) = 0.156 W/kg

Approved By

Test 143
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/2/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	34
Configuration:	INTE5434-1	Bar. Pressure (mb):	1017
Comments:	None		

Test 144

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.786$ S/m; $\epsilon_r = 47.69$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.306 V/m; Power Drift = -0.22 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 0.992 W/kg; SAR(10 g) = 0.413 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.84 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.829 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.52 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

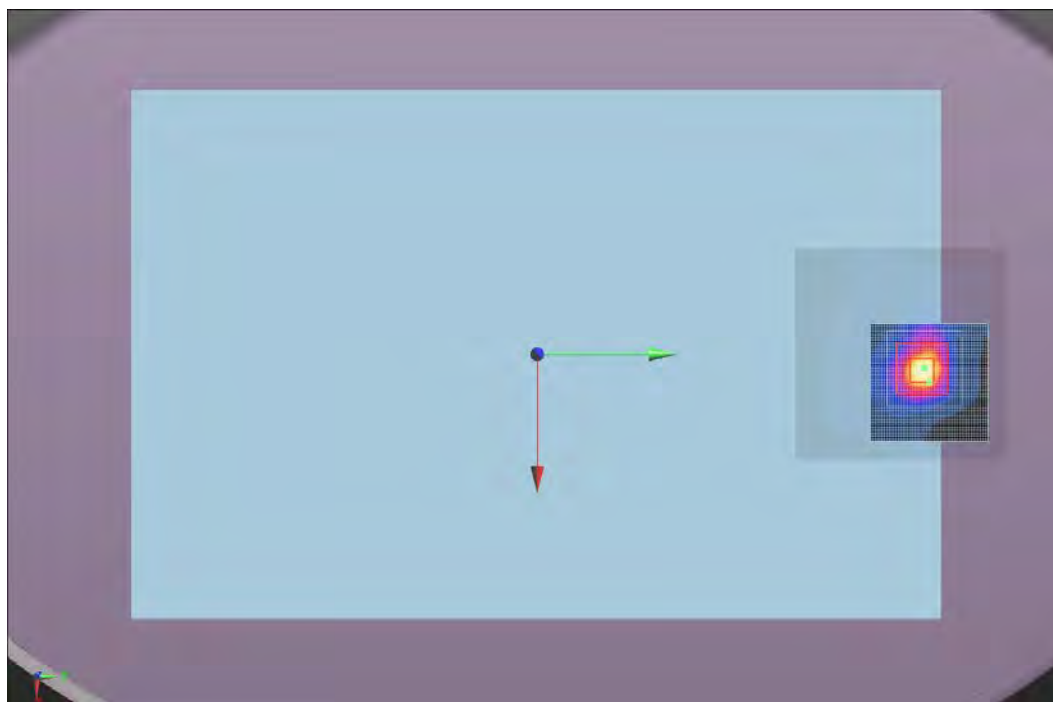
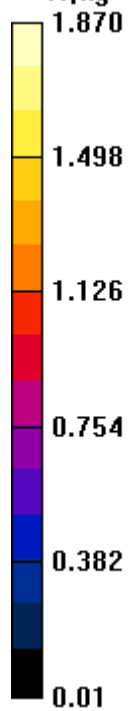
Maximum value of SAR (interpolated) = 1.86 W/kg

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



Approved By

Test 144
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/3/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 157a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.768$ S/m; $\epsilon_r = 47.725$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.667 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.104 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.838 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.440 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.093 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.817 W/kg

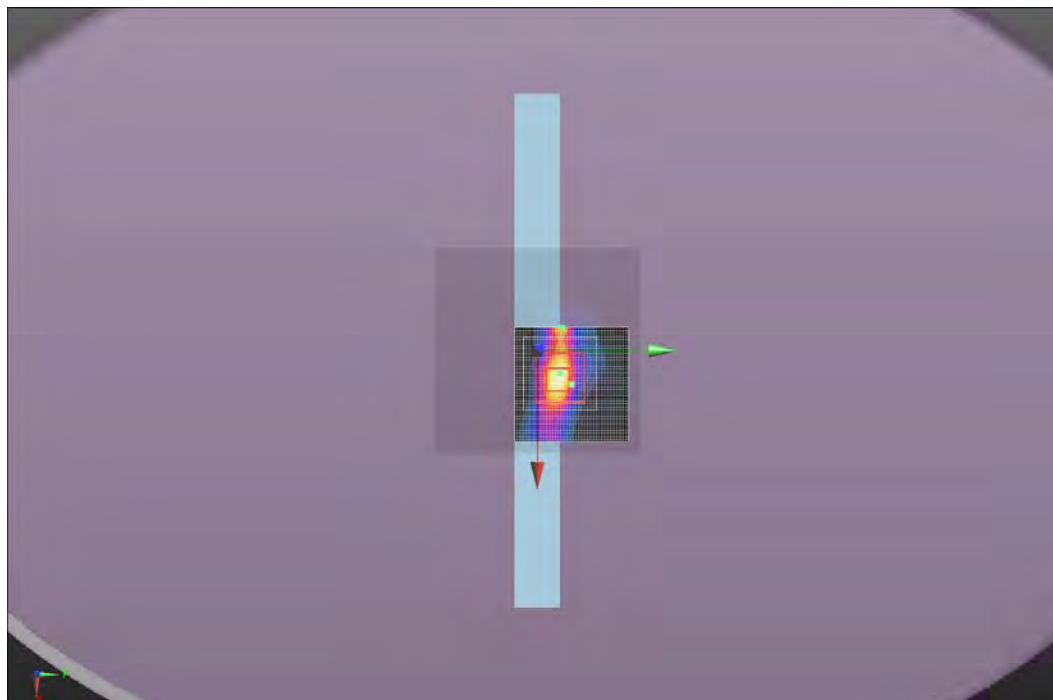
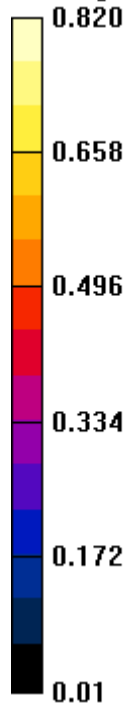
Maximum value of SAR (measured) = 0.150 W/kg



Approved By

Test 157a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/4/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1014
Comments:	None		

Test 158a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.708$ S/m; $\epsilon_r = 47.856$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (12x13x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.806 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.227 W/kg

SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.174 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.227 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.167 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.42 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

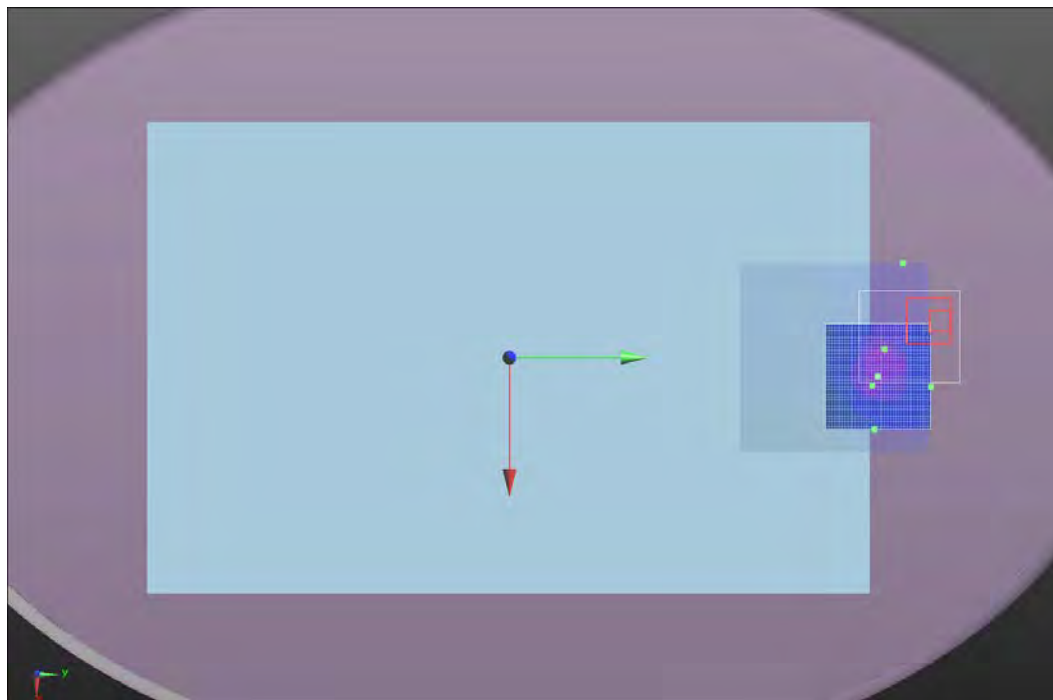
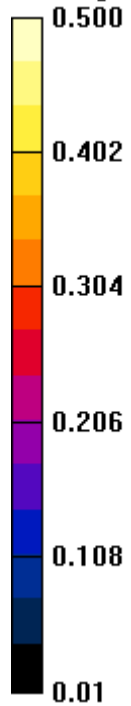
Maximum value of SAR (interpolated) = 0.183 W/kg

Maximum value of SAR (measured) = 0.620 W/kg



Approved By

Test 158a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.2
Date:	4/10/2014	Liquid Temperature (°C):	20.6
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Power level 13.0		

Test 159a1

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5580$ MHz; $\sigma = 5.82$ S/m; $\epsilon_r = 47.642$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.639 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.41 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.300 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.49 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.624 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.389 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.92 W/kg

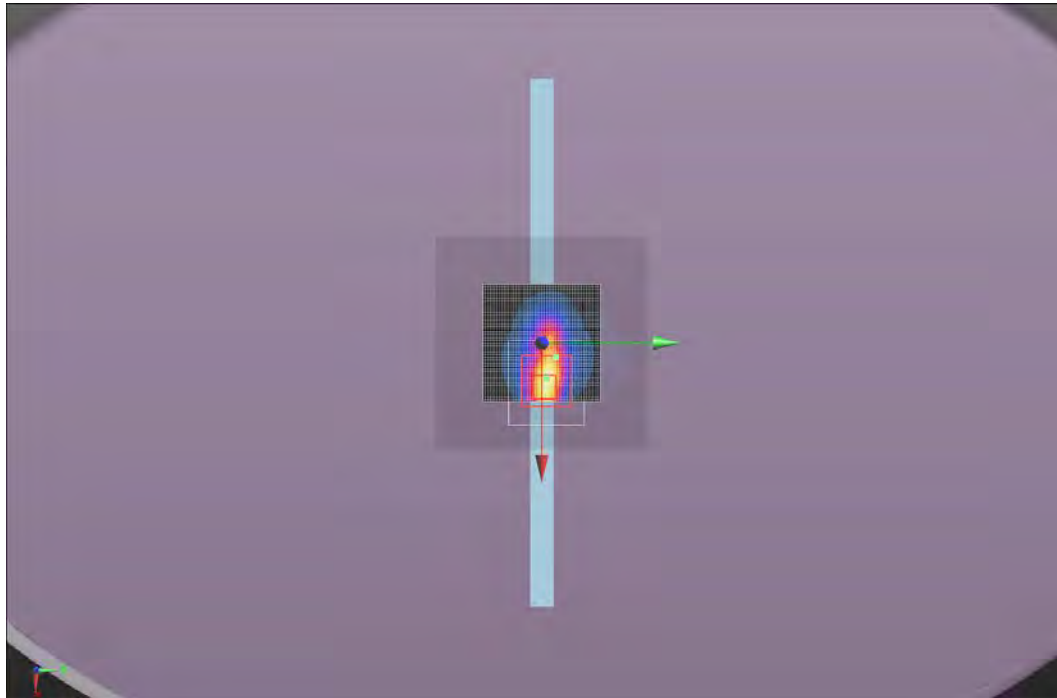
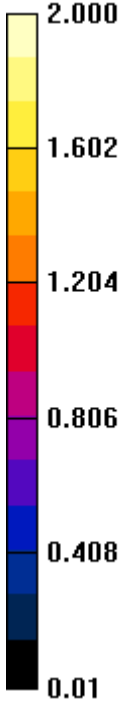
Maximum value of SAR (measured) = 0.410 W/kg



Approved By

Test 159a1

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.3
Date:	4/10/2014	Liquid Temperature (°C):	206
Serial Number:	010	Humidity (%RH):	30
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Power level 13.0		

Test 159e

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5680 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5680$ MHz; $\sigma = 5.992$ S/m; $\epsilon_r = 47.214$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.914 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 6.08 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.353 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.77 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.404 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.814 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

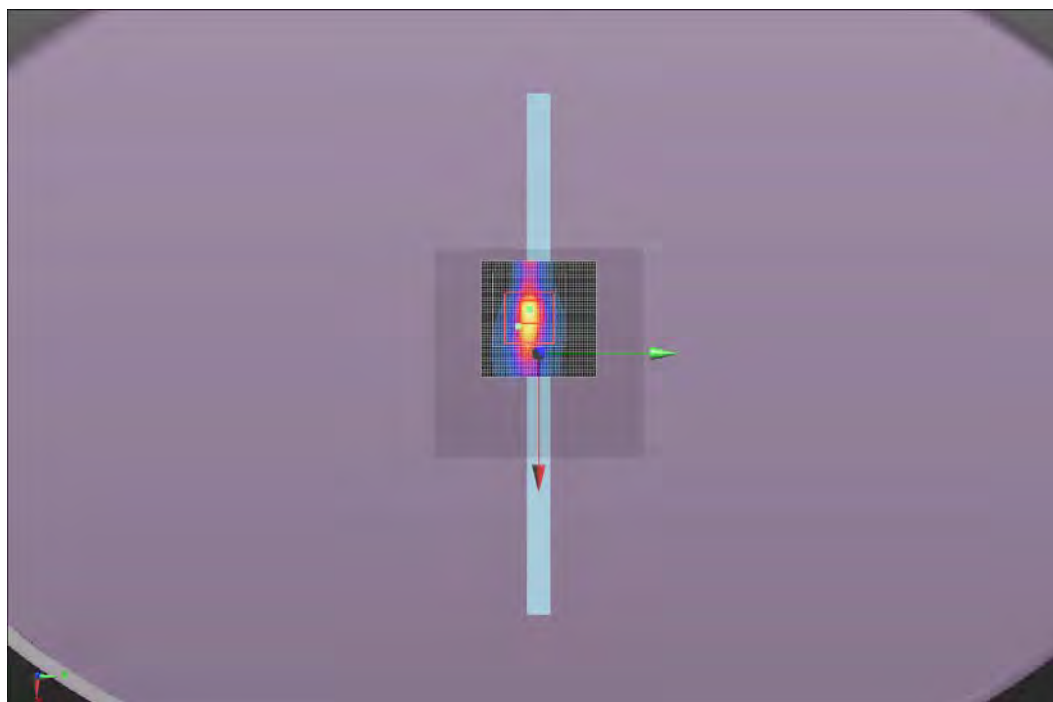
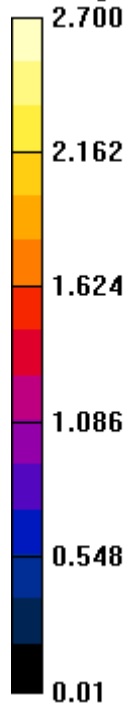
Maximum value of SAR (interpolated) = 2.61 W/kg

Maximum value of SAR (measured) = 0.465 W/kg



Approved By

Test 159e
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.8
Date:	4/11/2014	Liquid Temperature (°C):	22.1
Serial Number:	010	Humidity (%RH):	30
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	Power level 13.0		

Test 159f

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 48.451$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.695 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 5.50 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.341 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.60 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.122 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

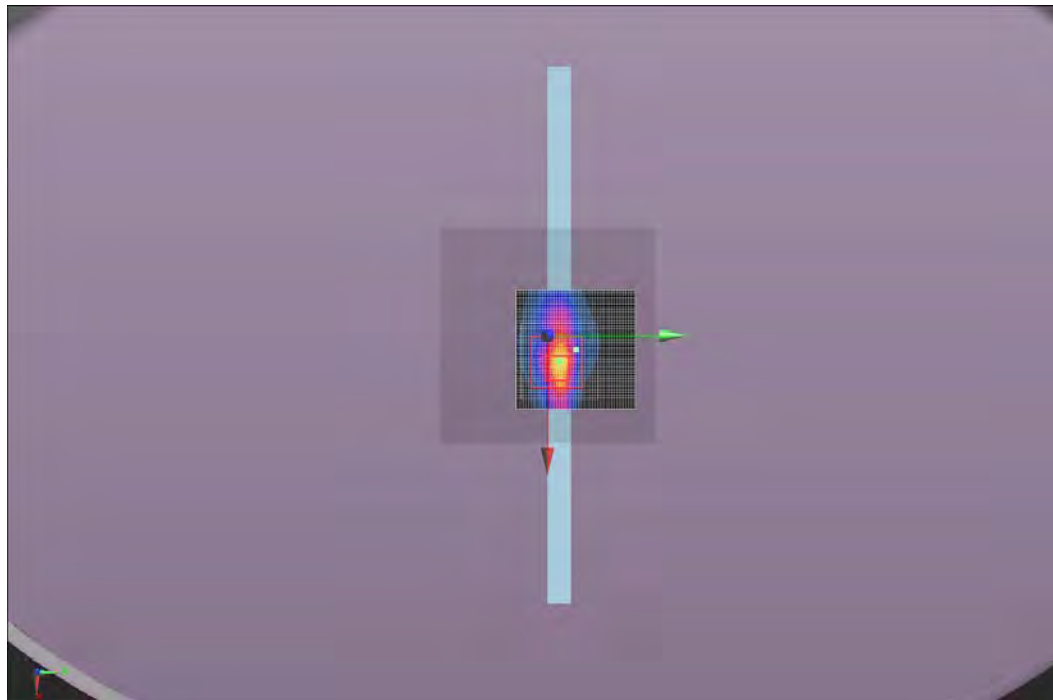
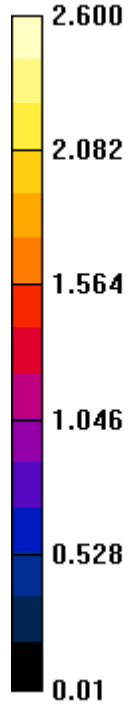
Maximum value of SAR (interpolated) = 2.19 W/kg

Maximum value of SAR (measured) = 0.479 W/kg




Approved By

Test 159f
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	24.2
Date:	4/4/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	34.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 160

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.708$ S/m; $\epsilon_r = 47.856$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.146 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.08 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.530 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.38 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.11 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.05 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

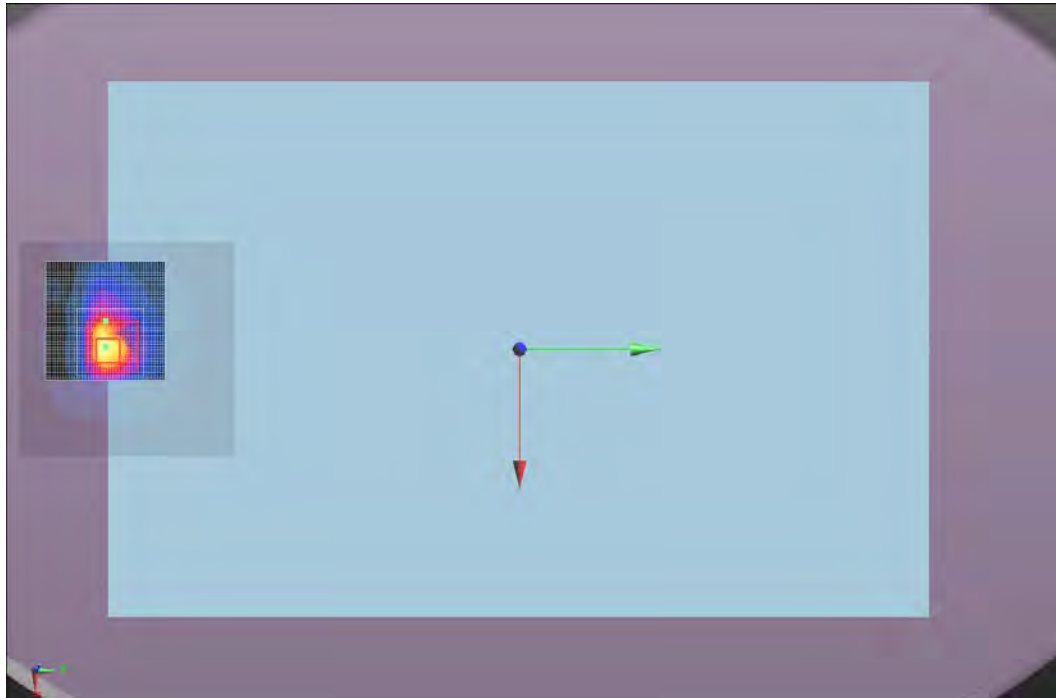
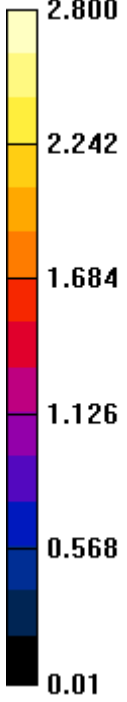
Maximum value of SAR (interpolated) = 2.64 W/kg

Maximum value of SAR (measured) = 0.577 W/kg

Approved By

Test 160
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.7
Date:	4/10/2014	Liquid Temperature (°C):	22.5
Serial Number:	010	Humidity (%RH):	32
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 14.0		

Test 160c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5580$ MHz; $\sigma = 5.82$ S/m; $\epsilon_r = 47.642$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.840 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 6.59 W/kg

SAR(1 g) = 1.49 W/kg; SAR(10 g) = 0.542 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.97 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.17 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.202 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

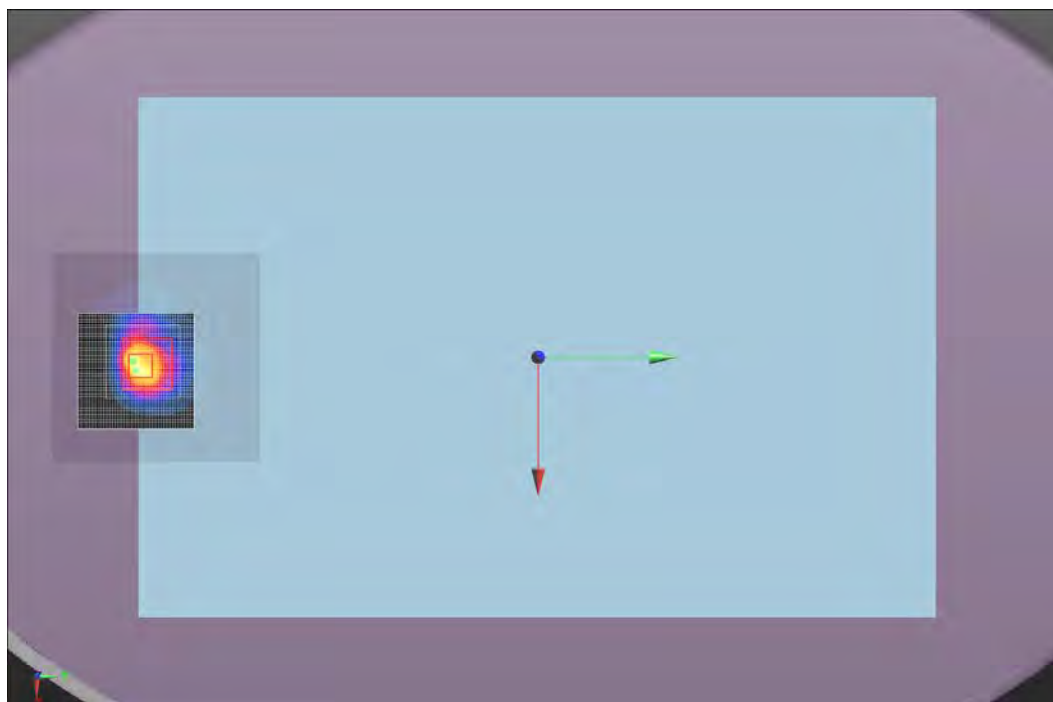
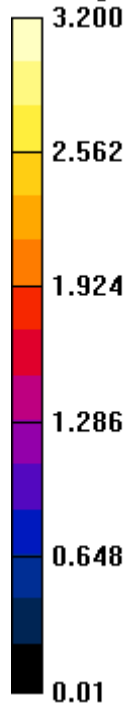
Maximum value of SAR (interpolated) = 2.98 W/kg

Maximum value of SAR (measured) = 0.493 W/kg

Approved By

Test 160c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.7
Date:	4/10/2014	Liquid Temperature (°C):	22.5
Serial Number:	010	Humidity (%RH):	32
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 14.0		

Test 160d

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5680 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5680$ MHz; $\sigma = 5.992$ S/m; $\epsilon_r = 47.214$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.850 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 6.45 W/kg

SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.490 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.84 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.03 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.262 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

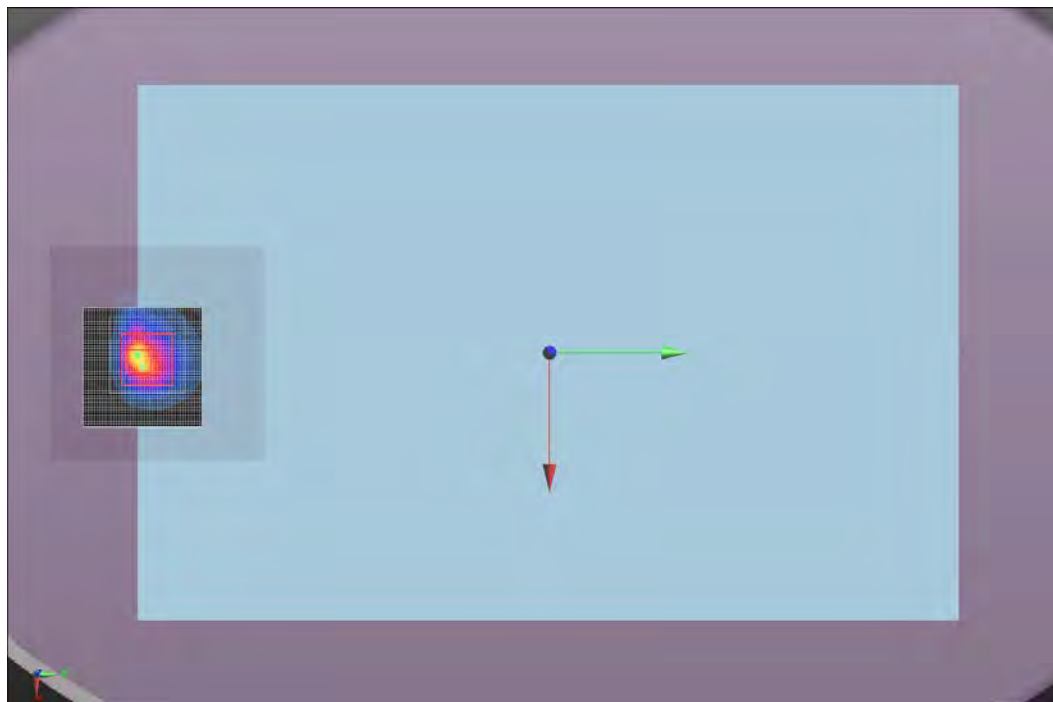
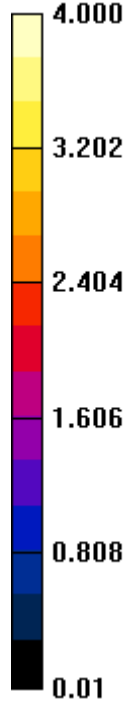
Maximum value of SAR (interpolated) = 3.44 W/kg

Maximum value of SAR (measured) = 0.409 W/kg

Approved By

Test 160d
W/kg



Tested By:	Cole Ghizzone	Room Temperature (°C):	24.2
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	34.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1018.3
Comments:	None		

Test 173

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.761 \text{ S/m}$; $\epsilon_r = 47.73$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.233 V/m; Power Drift = -0.45 dB

Peak SAR (extrapolated) = 4.50 W/kg

SAR(1 g) = 0.968 W/kg; SAR(10 g) = 0.286 W/kg

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.652 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 6.537 V/m

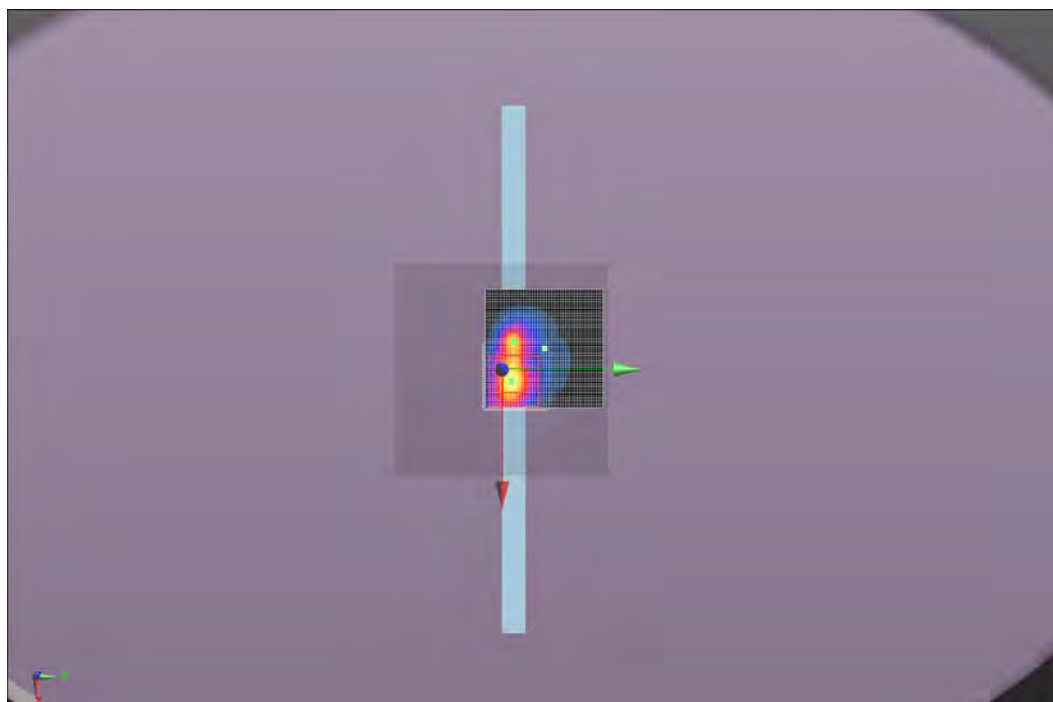
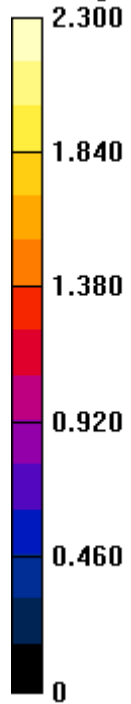
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.12 W/kg

Maximum value of SAR (measured) = 0.246 W/kg

Approved By

Test 173
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.6
Date:	4/7/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	31
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 173a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5510 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.704$ S/m; $\epsilon_r = 47.918$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.145 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 2.36 W/kg

SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.151 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.06 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.196 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.706 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

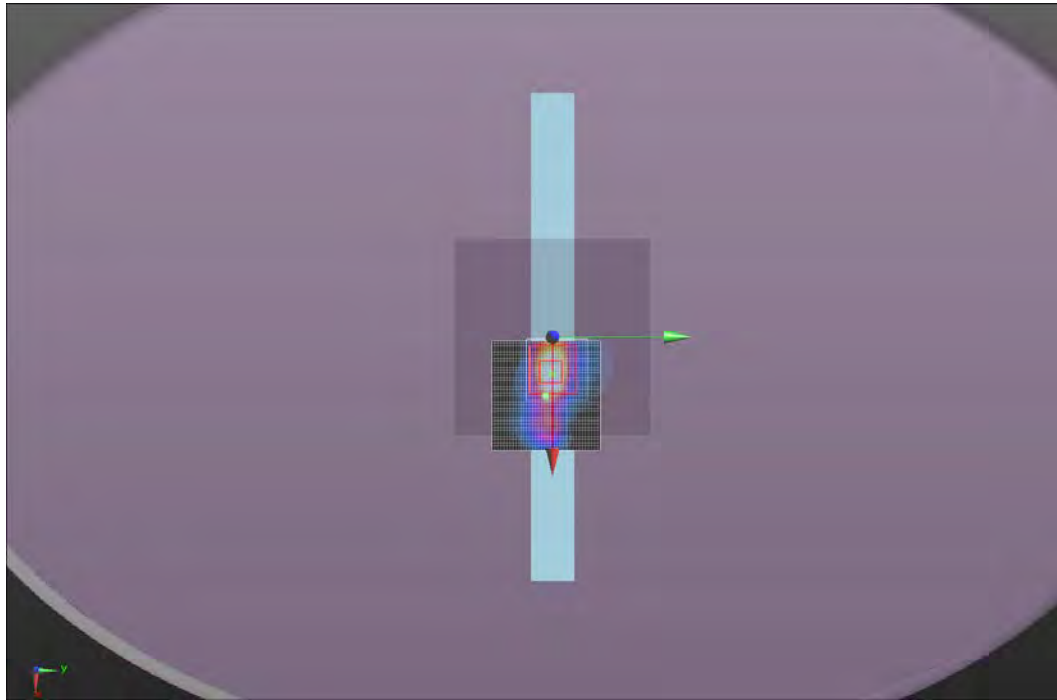
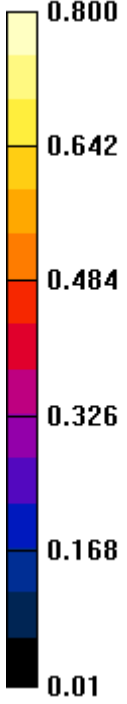
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.951 W/kg

Approved By

Test 173a
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.6
Date:	4/7/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	31
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 173b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5670 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 5.976$ S/m; $\epsilon_r = 47.255$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.525 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.223 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.63 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.280 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm


[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.867 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

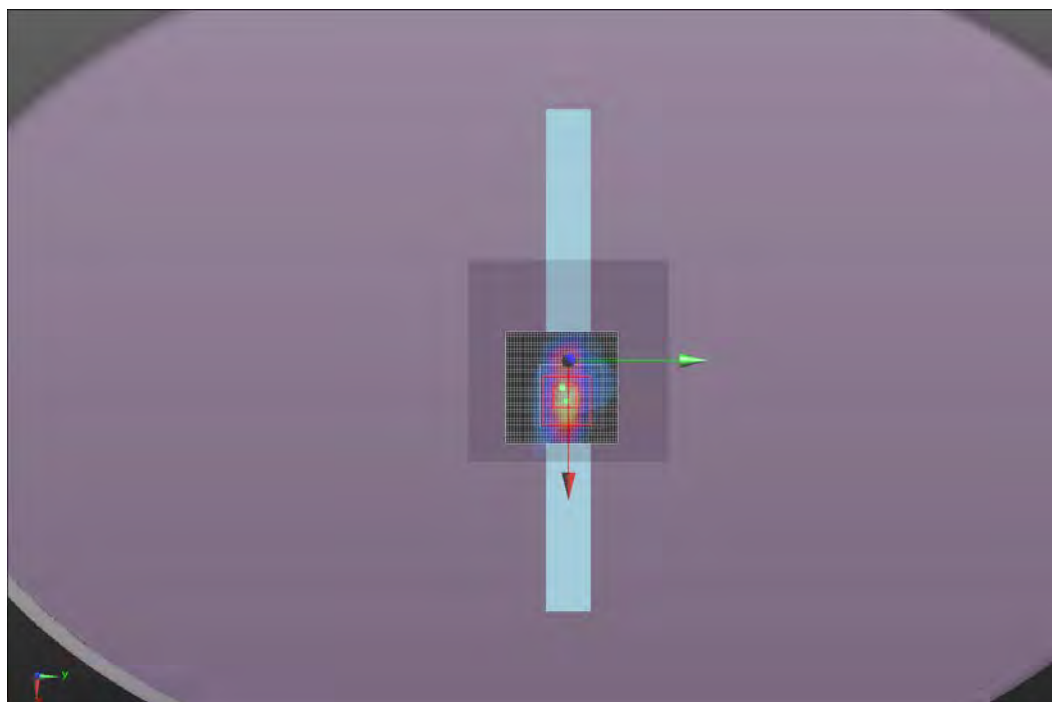
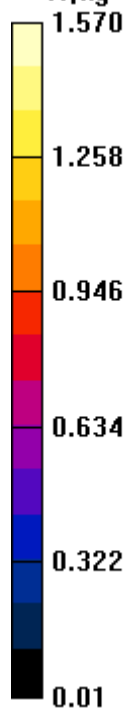
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.41 W/kg

 
Approved By

Test 173b

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.4
Date:	4/4/2014	Liquid Temperature (°C):	21.4
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1014
Comments:	None		

Test 174

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 47.73$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (13x12x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.917 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.189 W/kg

SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.147 W/kg

Maximum value of SAR (measured) = 0.189 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.158 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 10.06 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

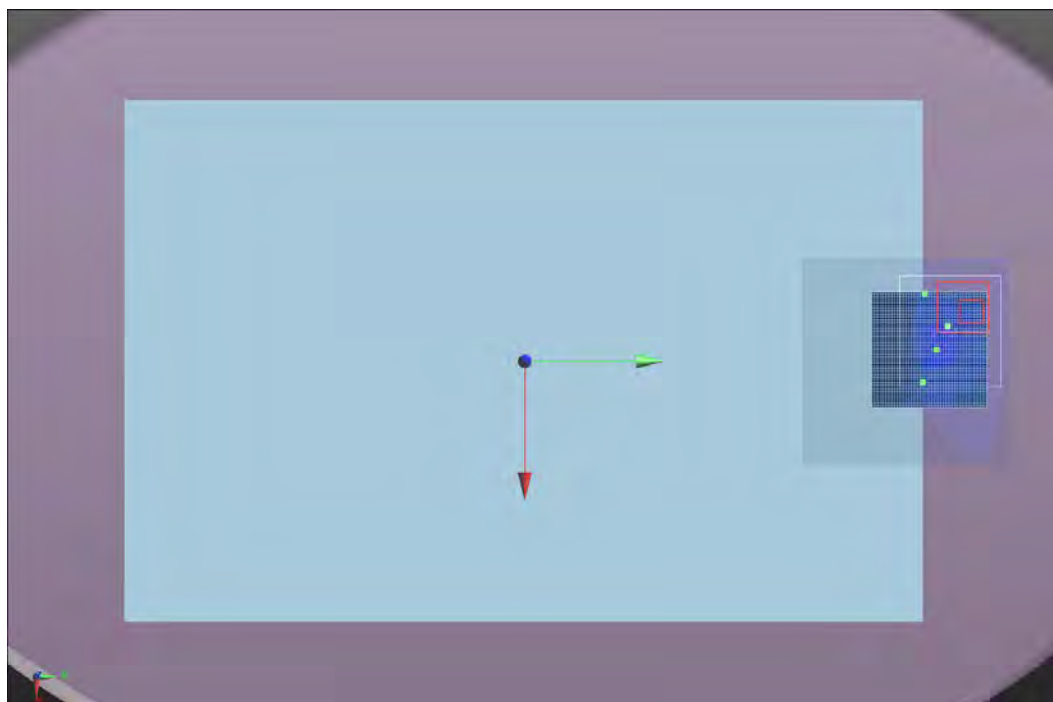
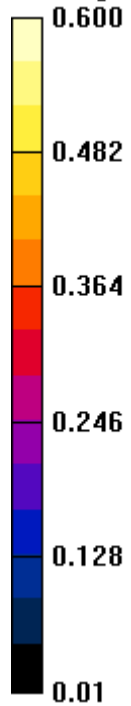
Maximum value of SAR (interpolated) = 0.160 W/kg

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



Approved By

Test 174
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23
Date:	4/10/2014	Liquid Temperature (°C):	20.4
Serial Number:	010	Humidity (%RH):	33
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Power level 13.0		

Test 175b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.772 \text{ S/m}$; $\epsilon_r = 47.745$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.327 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.09 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.261 W/kg

Maximum value of SAR (measured) = 2.47 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.399 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 8.951 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.30 W/kg

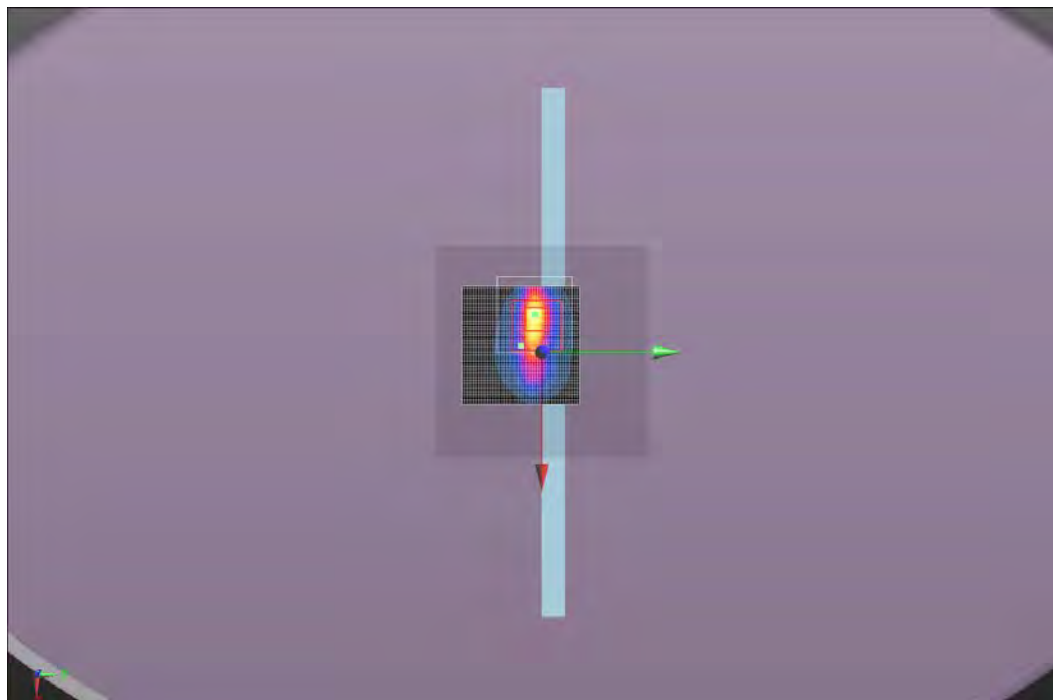
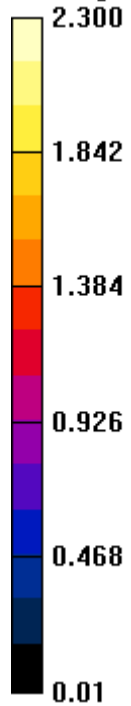
Maximum value of SAR (measured) = 0.462 W/kg



Approved By

Test 175b

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/11/2014	Liquid Temperature (°C):	22
Serial Number:	010	Humidity (%RH):	29.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	Power level 11.5		

Test 175c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5510 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.742$ S/m; $\epsilon_r = 48.488$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.827 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 5.36 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.330 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.40 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.371 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.127 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

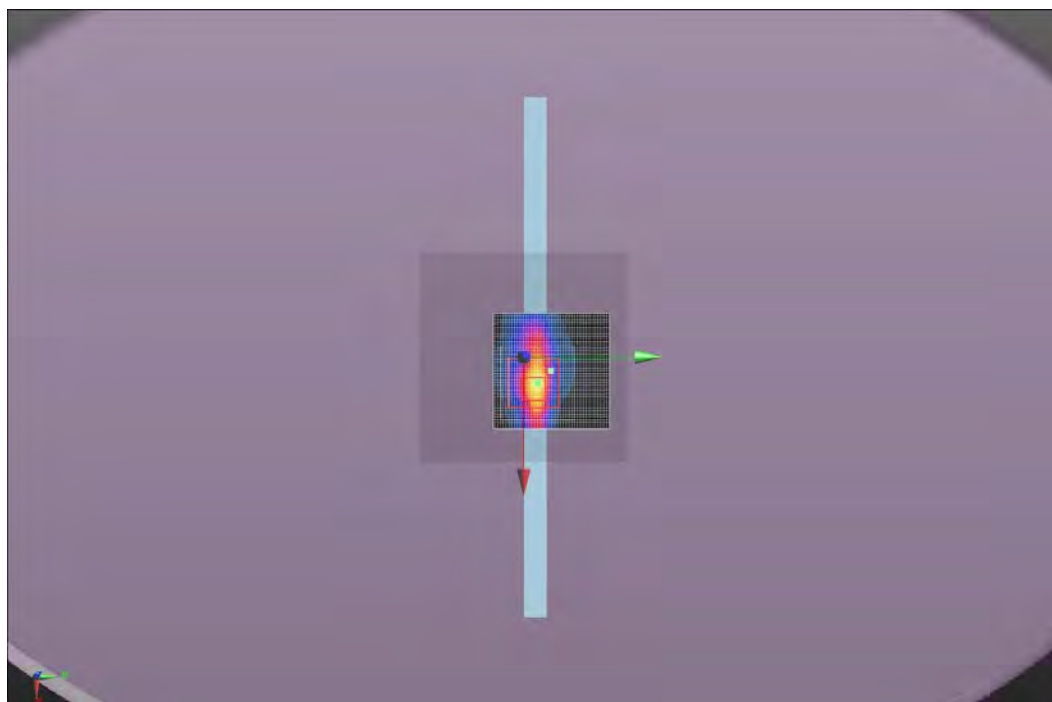
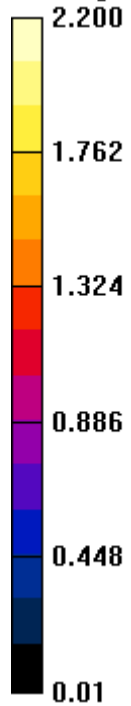
Maximum value of SAR (interpolated) = 2.07 W/kg

Maximum value of SAR (measured) = 0.478 W/kg

Approved By

Test 175c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/11/2014	Liquid Temperature (°C):	22
Serial Number:	010	Humidity (%RH):	29.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	Power level 13.0		

Test 175d

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5670 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 6.03$ S/m; $\epsilon_r = 47.936$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.269 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 0.768 W/kg; SAR(10 g) = 0.220 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.77 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.245 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.314 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.81 W/kg

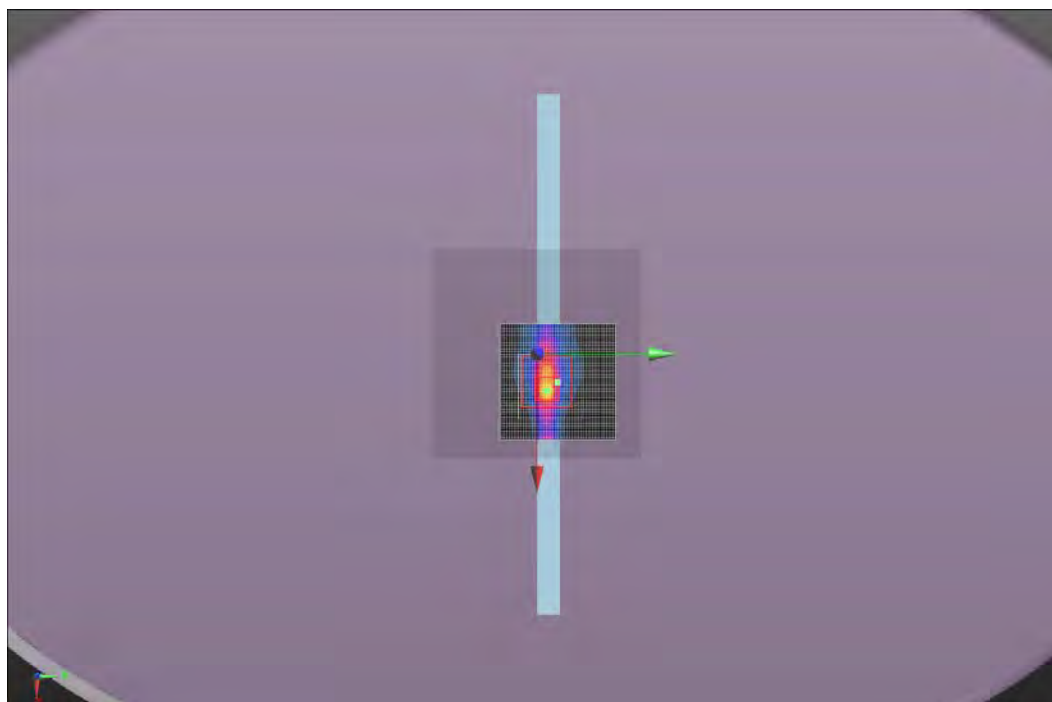
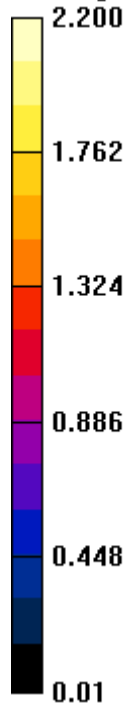
Maximum value of SAR (measured) = 0.323 W/kg

Approved By

Test 175d

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.6
Date:	4/7/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	31
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 176

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5550 \text{ MHz}$; $\sigma = 5.772 \text{ S/m}$; $\epsilon_r = 47.745$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.358 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 5.13 W/kg

SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.544 W/kg

Maximum value of SAR (measured) = 2.24 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

Maximum value of SAR (interpolated) = 0.728 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 10.85 V/m

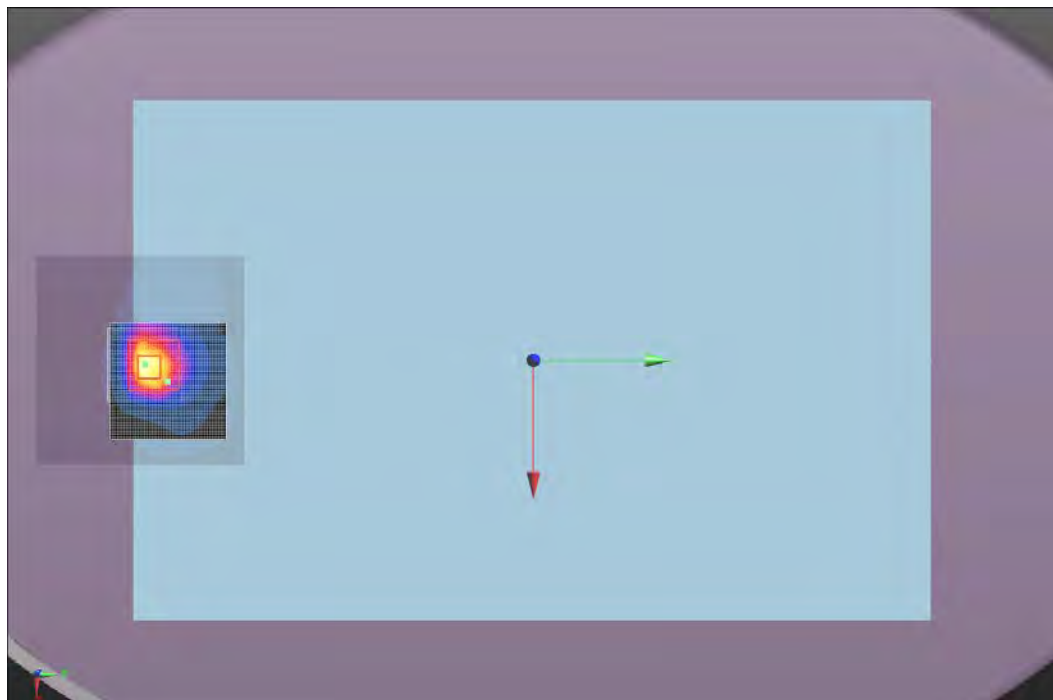
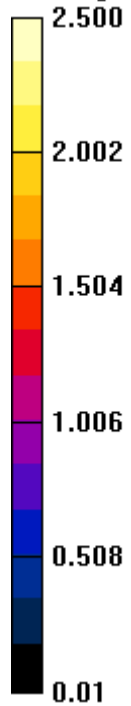
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 2.45 W/kg

Maximum value of SAR (measured) = 0.679 W/kg

Approved By

Test 176
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.6
Date:	4/7/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	31
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 176a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5510 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5510$ MHz; $\sigma = 5.704$ S/m; $\epsilon_r = 47.918$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.296 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.233 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.714 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.364 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.35 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.756 W/kg

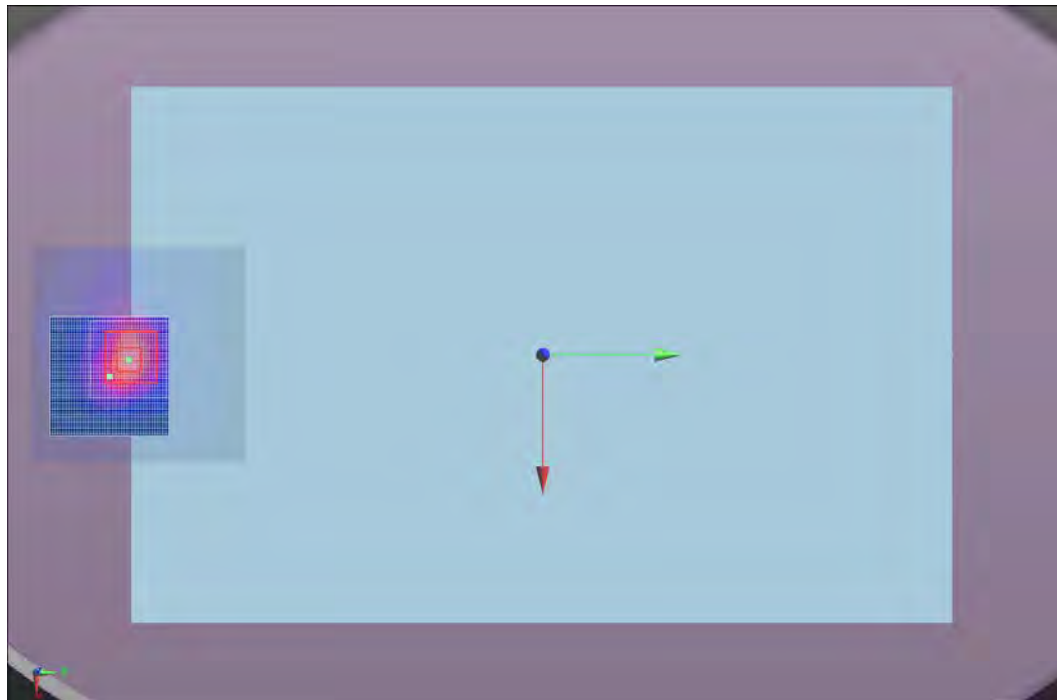
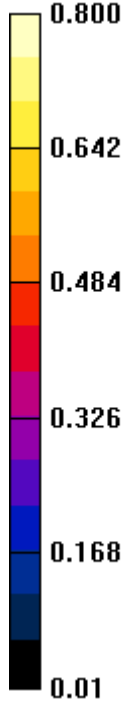
Maximum value of SAR (measured) = 0.611 W/kg

Approved By

Test 176a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/7/2014	Liquid Temperature (°C):	21.9
Serial Number:	010	Humidity (%RH):	36.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 176b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5670 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5670$ MHz; $\sigma = 5.976$ S/m; $\epsilon_r = 47.255$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.372 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.319 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.969 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.395 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.71 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.02 W/kg

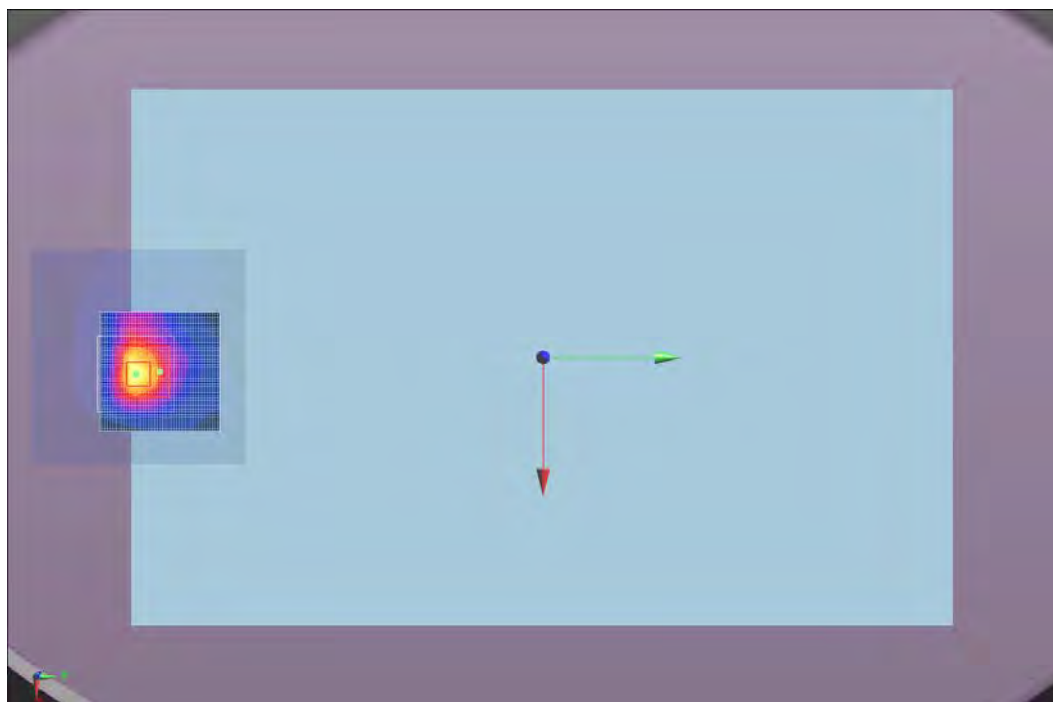
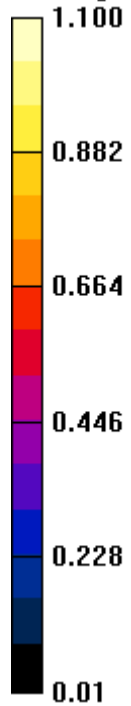
Maximum value of SAR (measured) = 0.685 W/kg

Approved By

Test 176b

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/6/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 189

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.726$ S/m; $\epsilon_r = 47.814$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.611 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.147 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.16 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.163 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 0.9861 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

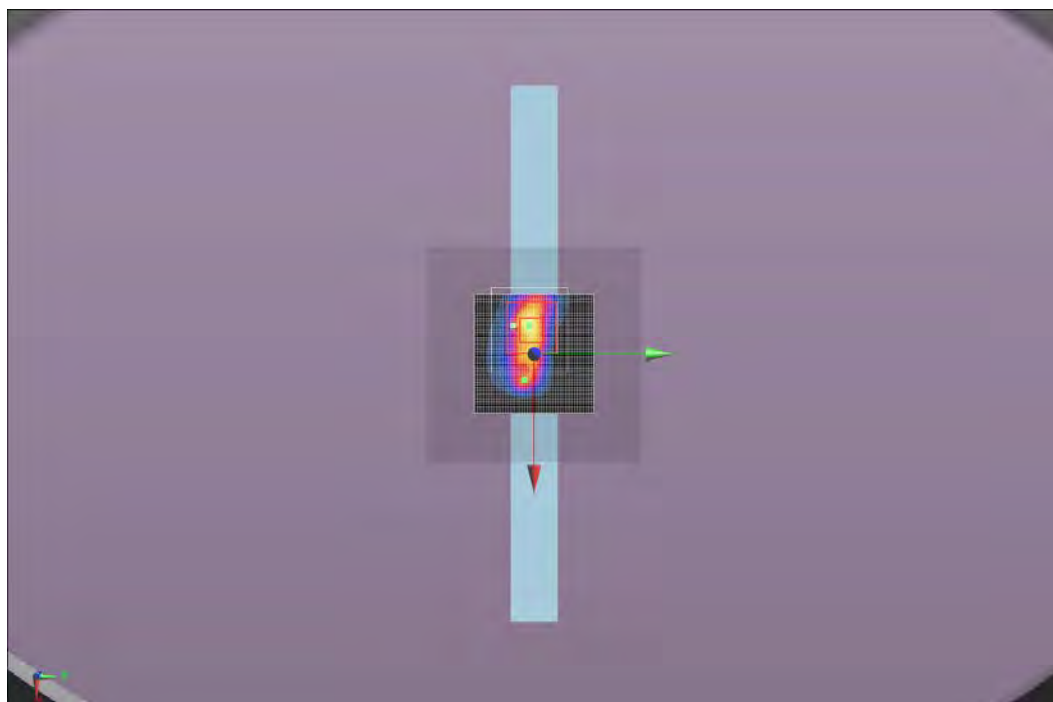
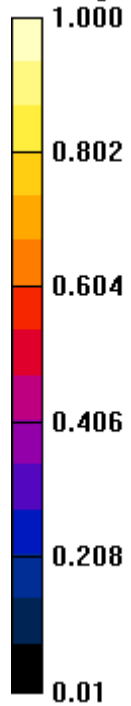
Maximum value of SAR (interpolated) = 0.915 W/kg

Maximum value of SAR (measured) = 0.00557 W/kg



Approved By

Test 189
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.2
Date:	4/8/2014	Liquid Temperature (°C):	22.3
Serial Number:	010	Humidity (%RH):	44.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1022
Comments:	None		

Test 190a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.738$ S/m; $\epsilon_r = 47.831$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.192 W/kg

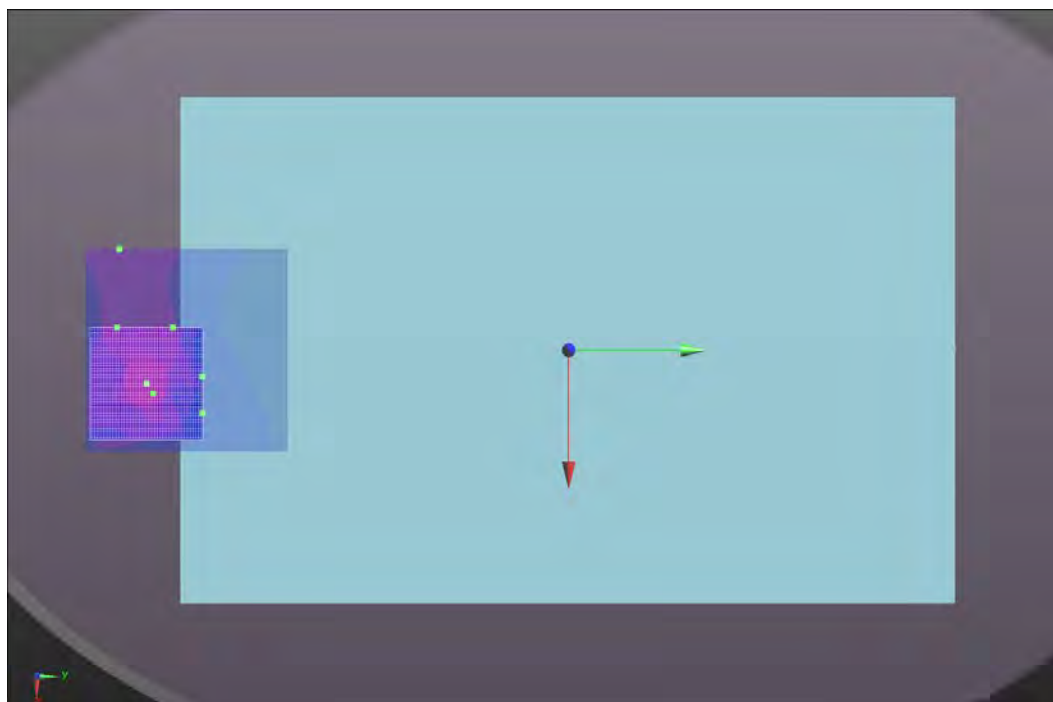
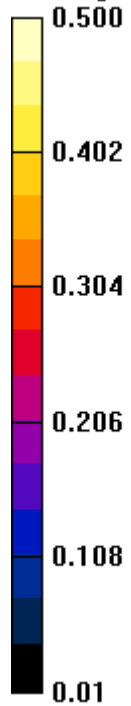
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.221 W/kg

 
Approved By

Test 190a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.3
Date:	4/7/2014	Liquid Temperature (°C):	21.8
Serial Number:	010	Humidity (%RH):	44
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 191

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.726$ S/m; $\epsilon_r = 47.814$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.997 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.210 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.58 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.328 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.550 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

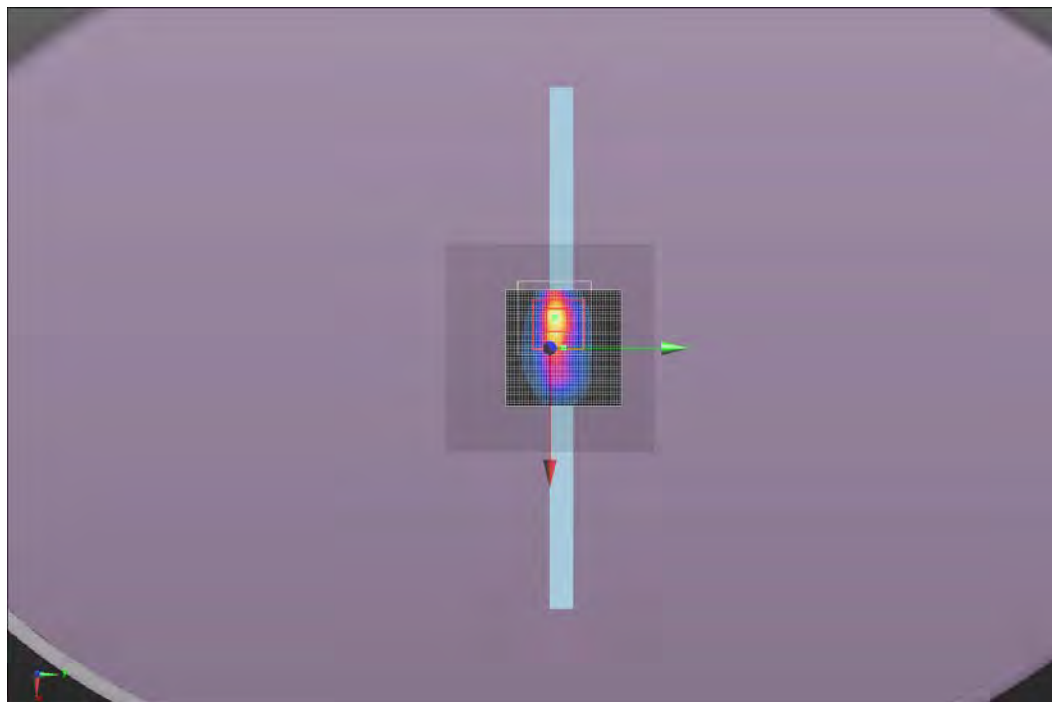
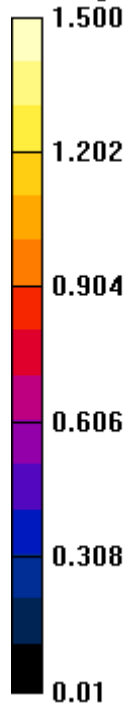
Maximum value of SAR (interpolated) = 1.48 W/kg

Maximum value of SAR (measured) = 0.326 W/kg



Approved By

Test 191
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.3
Date:	4/7/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	45
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 192

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.738$ S/m; $\epsilon_r = 47.831$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.342 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.423 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.73 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.632 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.55 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

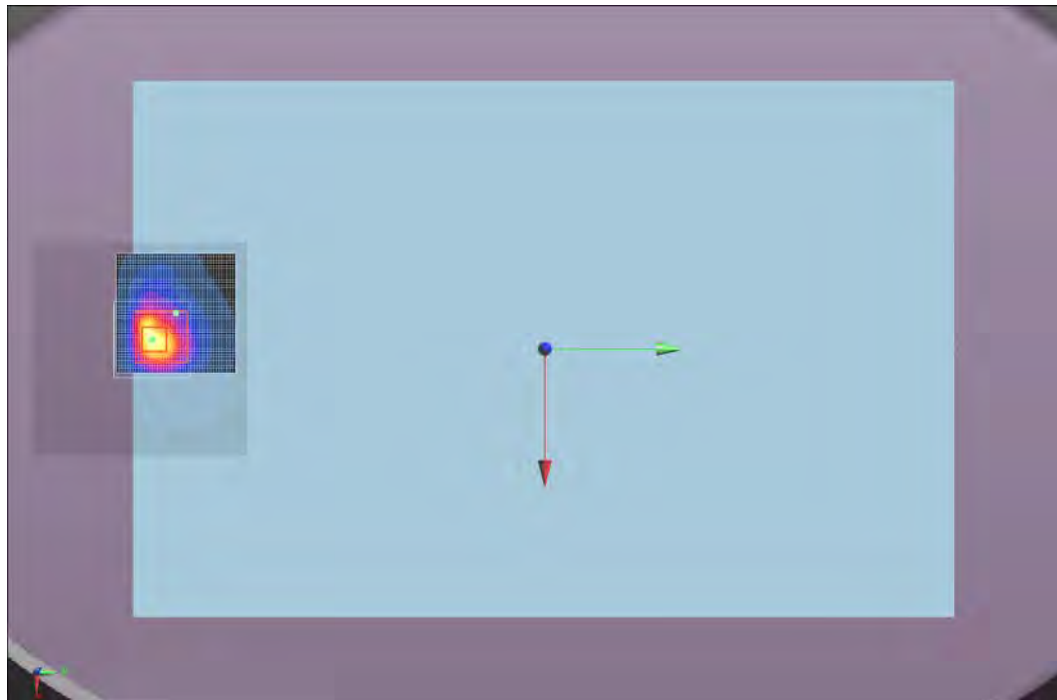
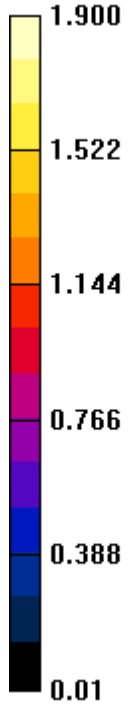
Maximum value of SAR (interpolated) = 1.86 W/kg

Maximum value of SAR (measured) = 0.639 W/kg

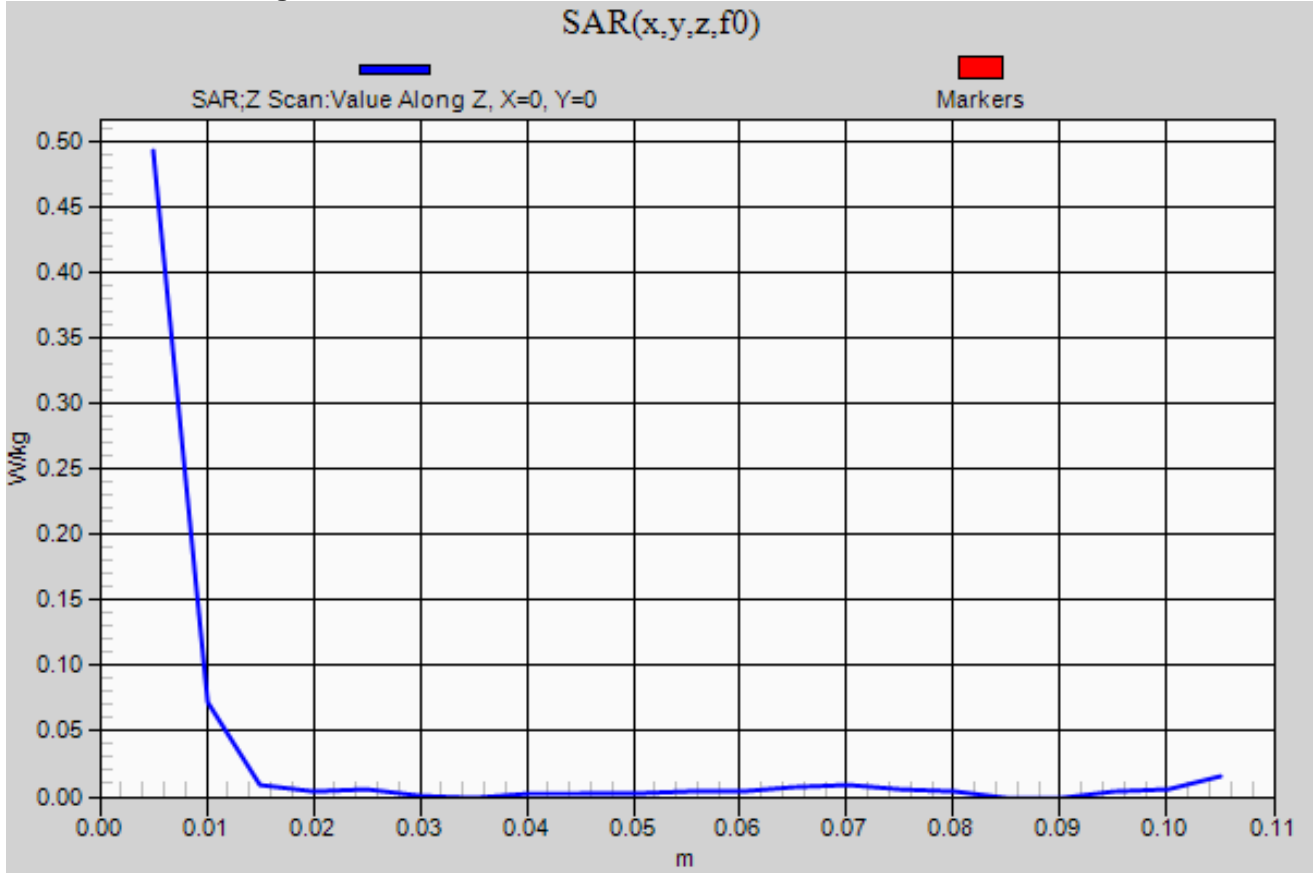


Approved By

Test 192
W/kg



Test 160c – Z Scan, 1g SAR



EUT:	WSBUB-SDS	Work Order:	INTE5434
Customer:	Intel Corporation	Job Site:	EV08
Attendees:	Mike Lowe, Bill Jones	Customer Project:	None

TEST SPECIFICATIONS

Specification:	Method:
FCC 2.1093:2014 FCC 15.247:2014	IEEE Std 1528:2003 FCC KDB 447498 D01 v05r02 FCC KDB 248227 D01 v01r02 FCC KDB 616217 D04 v01r01 FCC 865664 D01 v01r03 and D02 v01r01

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

RESULTS

Test Configuration	Frequency Band	Transmit Frequency (MHz)	Transmit Channel	Data Rate (Mbps)	Channel Bandwidth (MHz)	Antenna Port	Mode	EUT Position	Power Drift During Test (dB)	Measured 1g SAR Level (mW/g)	Measured 10g SAR Level (mW/g)	Test #
Body	5.8	5825	165	6 Mbit	20	A	Tablet	Right Side	0.10	0.63	0.24	113
Body	5.8	5825	165	6 Mbit	20	A	Tablet	Back	N/A	0.13	0.13	114
Body	5.8	5825	165	6 Mbit	20	A	Tent	Right Side	-0.02	1.01	0.28	115
Body	5.8	5785	157	6 Mbit	20	A	Tent	Right Side	-0.06	0.96	0.28	115a
Body	5.8	5745	149	6 Mbit	20	A	Tent	Right Side	-0.09	0.95	0.28	115b
Body	5.8	5825	165	6 Mbit	20	A	Tent	Back	-0.31	1.30	0.51	116
Body	5.8	5745	149	6 Mbit	20	A	Tent	Back	-0.07	1.27	0.50	116a
Body	5.8	5785	157	6 Mbit	20	A	Tent	Back	0.04	1.16	0.46	116b
Body	5.8	5755	149/153	MCS0	40	A	Tablet	Right Side	-0.46	0.58	0.23	129
Body	5.8	5755	149/153	MCS0	40	A	Tablet	Back	N/A	0.10	0.10	130
Body	5.8	5755	149/153	MCS0	40	A	Tent	Right Side	-0.11	0.82	0.26	131
Body	5.8	5795	157/161	MCS0	40	A	Tent	Right Side	-0.08	0.87	0.27	131b
Body	5.8	5755	149/153	MCS0	40	A	Tent	Back	-0.07	1.18	0.36	132b
Body	5.8	5795	157/161	MCS0	40	A	Tent	Back	-0.13	1.20	0.35	132d
Body	5.8	5775	155	MCS0	80	A	Tablet	Right Side	0.02	0.65	0.24	145
Body	5.8	5775	155	MCS0	80	A	Tablet	Back	-0.63	0.15	0.14	146
Body	5.8	5775	155	MCS0	80	A	Tent	Right Side	0.02	0.83	0.26	147
Body	5.8	5690	138	MCS0	80	A	Tent	Right Side	0.10	0.77	0.28	147a
Body	5.8	5775	155	MCS0	80	A	Tent	Back	-0.05	1.09	0.34	148a
Body	5.8	5690	138	MCS0	80	A	Tent	Back	-0.02	1.30	0.40	148c
Body	5.8	5765	153	6 Mbit	20	B	Tablet	Left Side	-0.02	0.96	0.29	161a
Body	5.8	5825	165	6 Mbit	20	B	Tablet	Left Side	0.12	0.86	0.27	161b
Body	5.8	5765	153	6 Mbit	20	B	Tablet	Back	0.09	0.14	0.13	162
Body	5.8	5765	153	6 Mbit	20	B	Tent	Left Side	-0.18	0.97	0.28	163
Body	5.8	5825	165	6 Mbit	20	B	Tent	Left Side	-999.00	1.20	0.36	163a
Body	5.8	5755	149/153	MCS0	40	B	Tablet	Left Side	-0.27	0.79	0.24	177
Body	5.8	5755	149/153	MCS0	40	B	Tablet	Back	N/A	0.14	0.14	178
Body	5.8	5755	149/153	MCS0	40	B	Tent	Left Side	0.07	0.96	0.27	179
Body	5.8	5795	157/161	MCS0	40	B	Tent	Left Side	0.05	1.28	0.37	179a
Body	5.8	5755	149/153	MCS0	40	B	Tent	Back	0.03	0.67	0.32	180b
Body	5.8	5775	155	MCS0	80	B	Tablet	Left Side	0.21	0.59	0.17	193
Body	5.8	5775	155	MCS0	80	B	Tablet	Back	N/A	0.16	0.16	194
Body	5.8	5775	155	MCS0	80	B	Tent	Left Side	-0.14	0.84	0.24	195
Body	5.8	5690	138	MCS0	80	B	Tent	Left Side	-0.06	0.68	0.19	195a
Body	5.8	5775	155	MCS0	80	B	Tent	Back	-0.11	1.24	0.52	196
Body	5.8	5690	138	MCS0	80	B	Tent	Back	-0.20	0.66	0.23	196a

Tested By:	Ethan Schoonover	Room Temperature (°C):	23.1
Date:	3/31/2014	Liquid Temperature (°C):	20.7
Serial Number:	010	Humidity (%RH):	28.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 113

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);
Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825 \text{ MHz}$; $\sigma = 6.27 \text{ S/m}$; $\epsilon_r = 46.48$; $\rho = 1000 \text{ kg/m}^3$, Medium
parameters used: $\sigma = 0 \text{ S/m}$, $\epsilon_r = 1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.718 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 0.628 W/kg; SAR(10 g) = 0.238 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.36 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.321 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.264 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

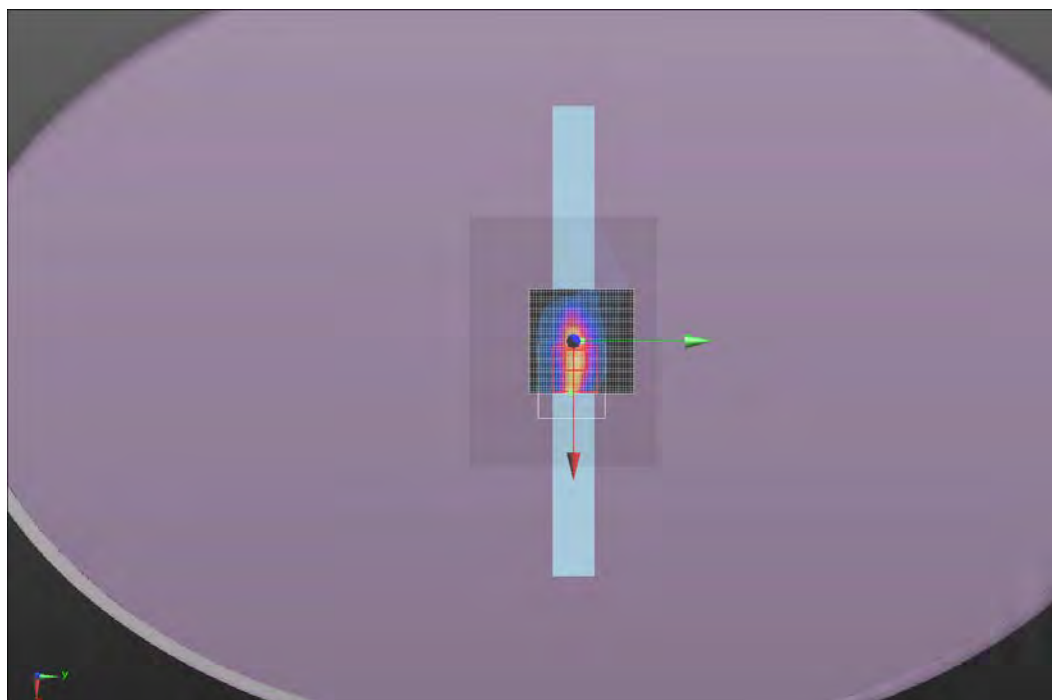
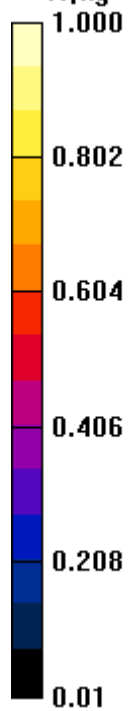
Maximum value of SAR (interpolated) = 0.886 W/kg

Maximum value of SAR (measured) = 0.174 W/kg

Approved By

Test 113
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.5
Date:	3/31/2014	Liquid Temperature (°C):	20.5
Serial Number:	010	Humidity (%RH):	27.8
Configuration:	INTE5434-1	Bar. Pressure (mb):	1010
Comments:	None		

Test 114

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.27$ S/m; $\epsilon_r = 46.48$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm



[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.132 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

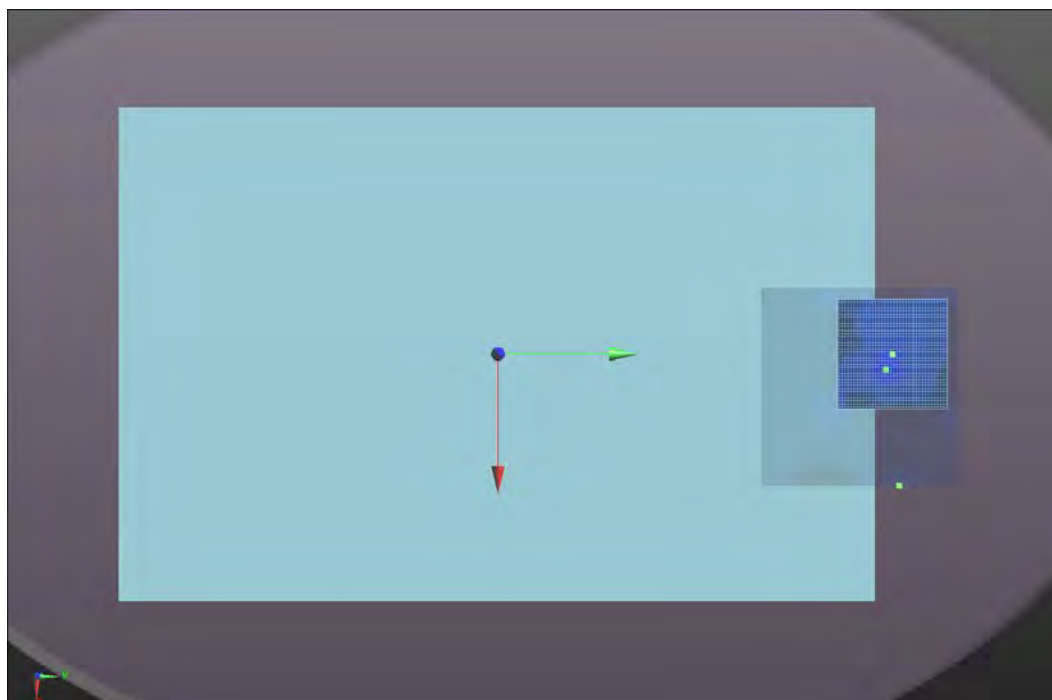
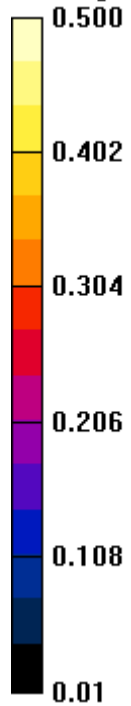
Maximum value of SAR (interpolated) = 0.129 W/kg

Approved By

WSTD.2013.09.09

Test 114
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	21.8
Date:	3/31/2014	Liquid Temperature (°C):	20
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1006
Comments:	None		

Test 115

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.27$ S/m; $\epsilon_r = 46.48$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.003 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.07 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.284 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.25 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.291 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.289 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

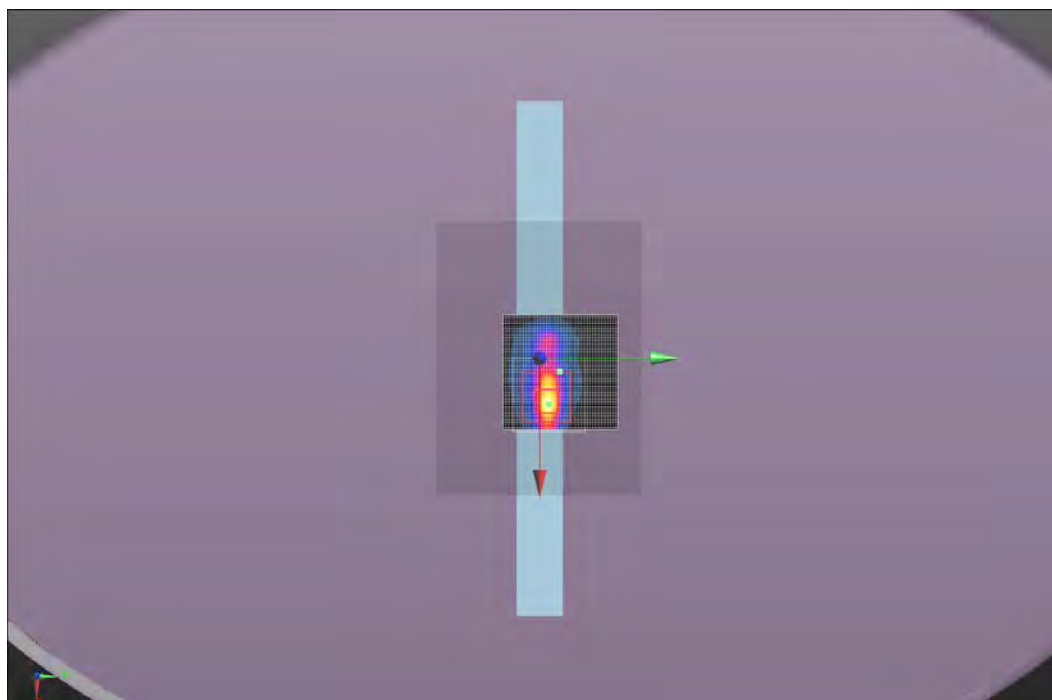
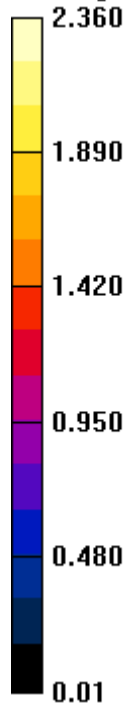
Maximum value of SAR (interpolated) = 2.36 W/kg

Maximum value of SAR (measured) = 0.431 W/kg



Approved By

Test 115
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.1
Date:	3/31/2014	Liquid Temperature (°C):	20
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1006
Comments:	None		

Test 115a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5785 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.205$ S/m; $\epsilon_r = 46.662$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.889 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.66 W/kg

SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.283 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.06 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.406 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.660 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.80 W/kg

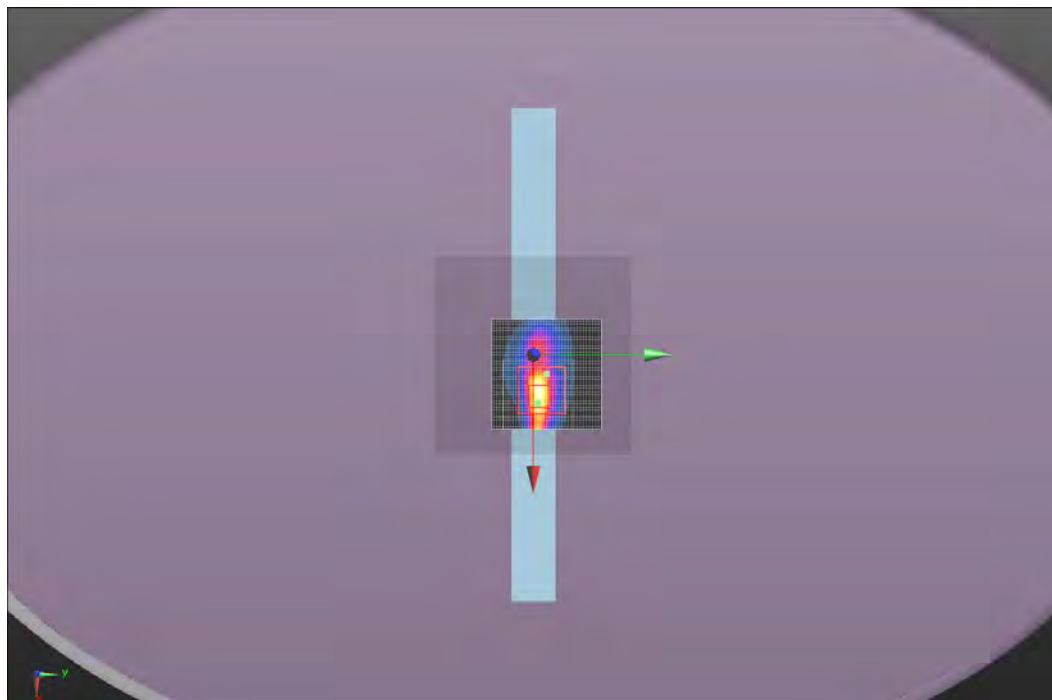
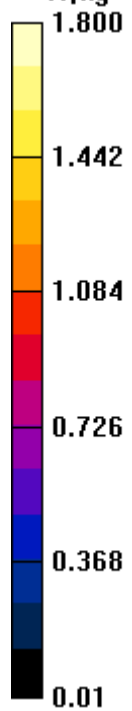
Maximum value of SAR (measured) = 0.364 W/kg



Approved By

Test 115a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.7
Date:	3/31/2014	Liquid Temperature (°C):	20
Serial Number:	010	Humidity (%RH):	32
Configuration:	INTE5434-1	Bar. Pressure (mb):	1006
Comments:	None		

Test 115b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5745$ MHz; $\sigma = 6.143$ S/m; $\epsilon_r = 46.834$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.551 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.61 W/kg

SAR(1 g) = 0.951 W/kg; SAR(10 g) = 0.276 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Zoom Scan 2 (11x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.551 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 0.946 W/kg; SAR(10 g) = 0.292 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.02 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.316 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.536 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

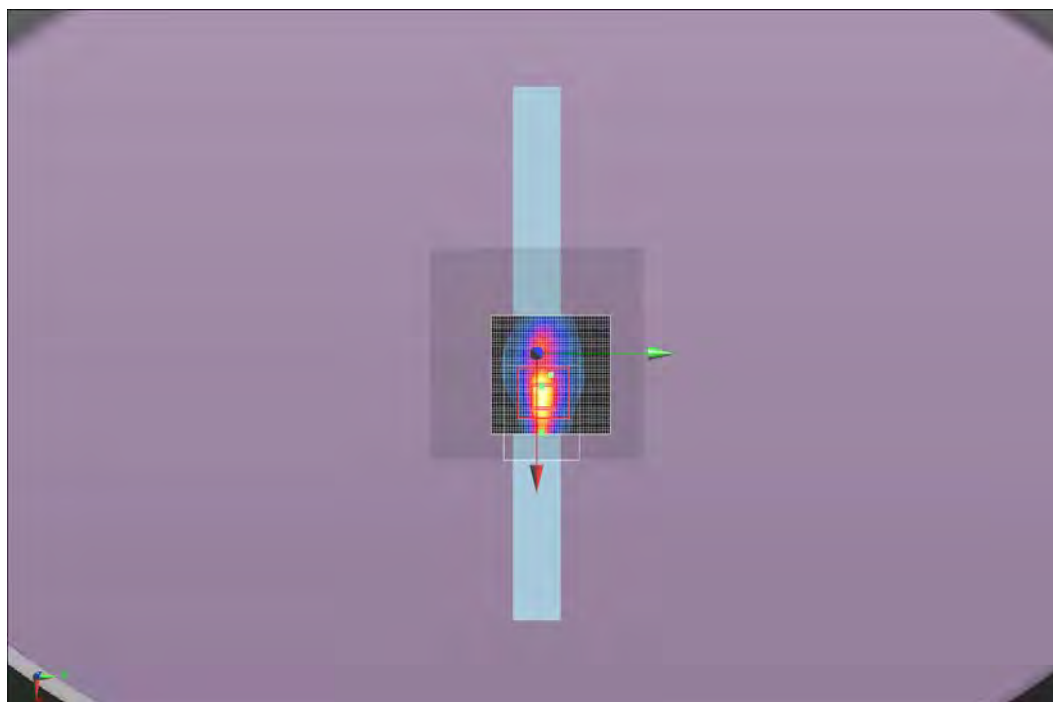
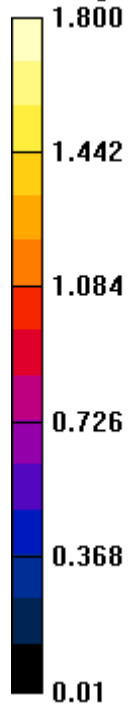
Maximum value of SAR (interpolated) = 1.79 W/kg

Maximum value of SAR (measured) = 0.349 W/kg



Approved By

Test 115b
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.6
Date:	4/1/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 116

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.27$ S/m; $\epsilon_r = 46.48$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.162 V/m; Power Drift = -0.31 dB

Peak SAR (extrapolated) = 5.55 W/kg

SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.507 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.45 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.14 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.631 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

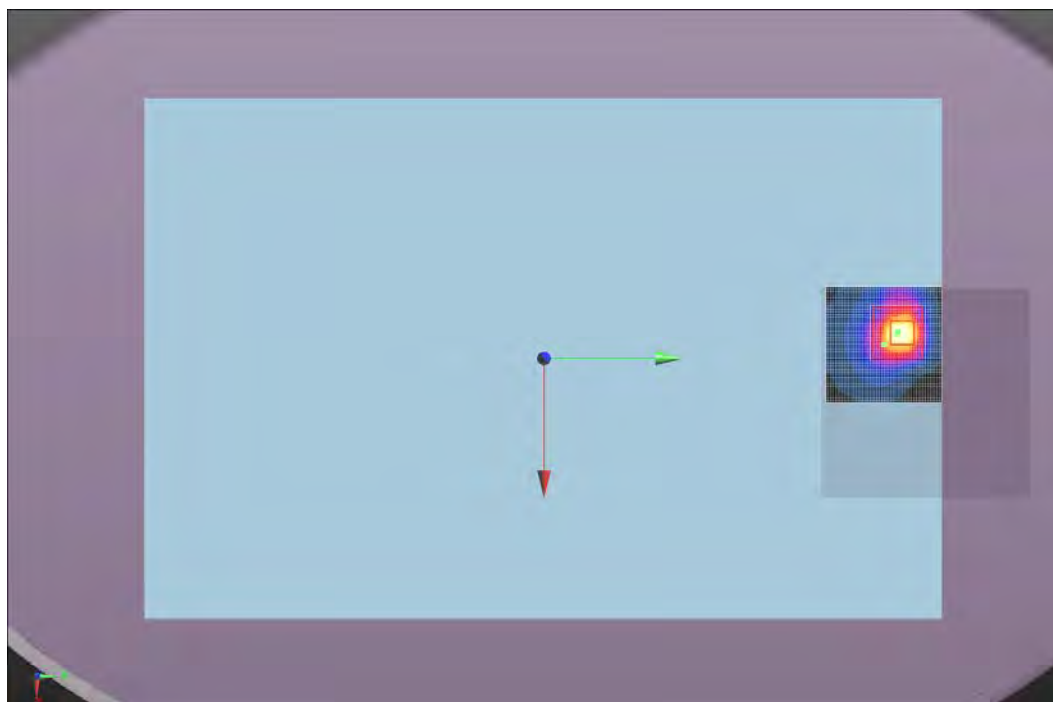
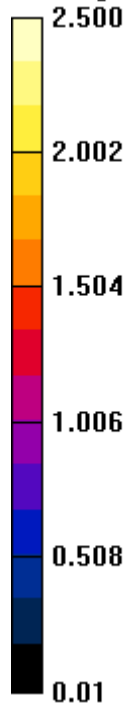
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.50 W/kg

Maximum value of SAR (measured) = 0.582 W/kg

 
Approved By

Test 116
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.5
Date:	4/1/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	36.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 116a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5745$ MHz; $\sigma = 6.143$ S/m; $\epsilon_r = 46.834$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.659 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 5.32 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.504 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.39 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.59 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.253 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.44 W/kg

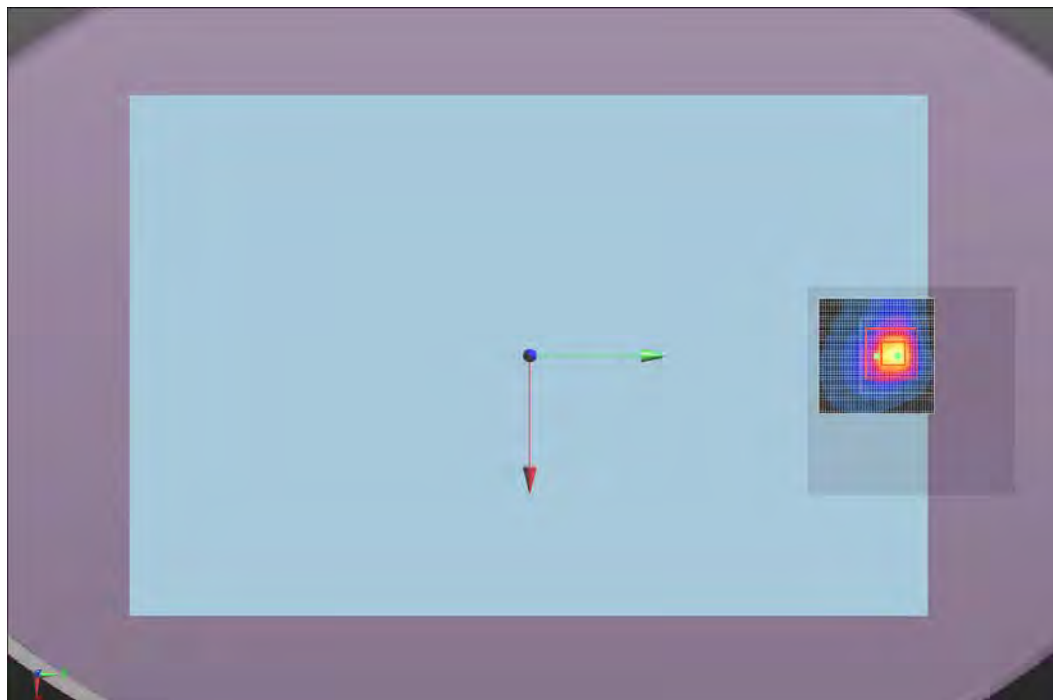
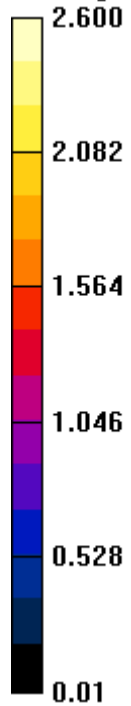
Maximum value of SAR (measured) = 0.526 W/kg

Approved By

Test 116a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.5
Date:	4/1/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	36.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 116b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5785 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.205$ S/m; $\epsilon_r = 46.662$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.784 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.99 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.457 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.18 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.413 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.18 W/kg

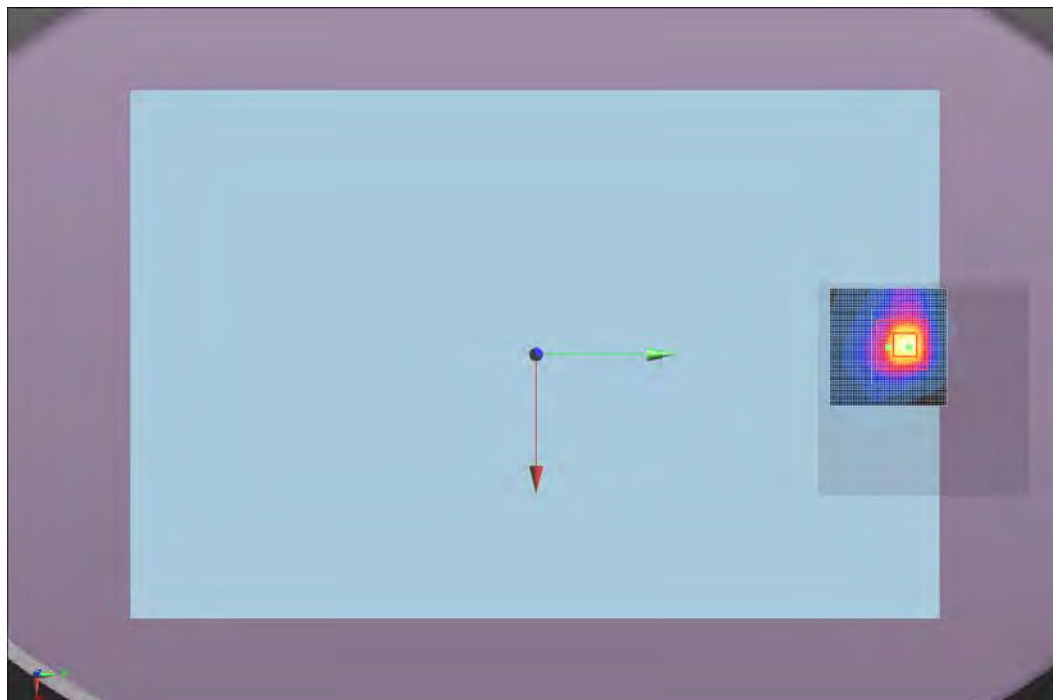
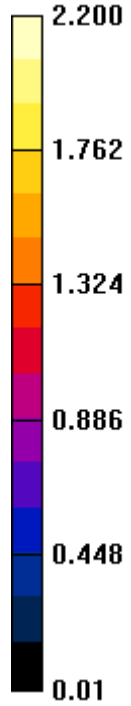
Maximum value of SAR (measured) = 0.550 W/kg



Approved By

Test 116b

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.6
Date:	4/2/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	30.1
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 129

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.791$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x10x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.255 V/m; Power Drift = -0.46 dB

Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 0.578 W/kg; SAR(10 g) = 0.229 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.28 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.247 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.784 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

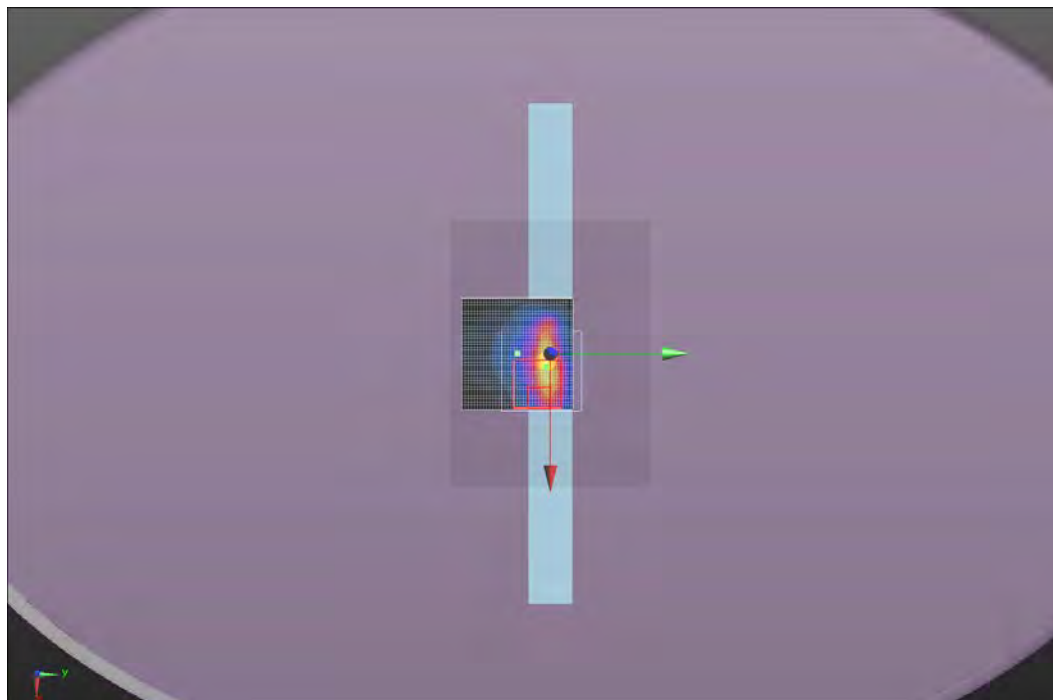
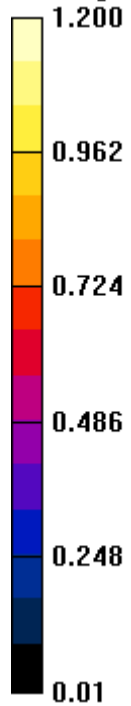
Maximum value of SAR (interpolated) = 1.05 W/kg

Maximum value of SAR (measured) = 0.206 W/kg

Approved By

Test 129
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.2
Date:	4/2/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	31
Configuration:	INTE5434-1	Bar. Pressure (mb):	1013
Comments:	None		

Test 130

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.791$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.123 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.102 W/kg

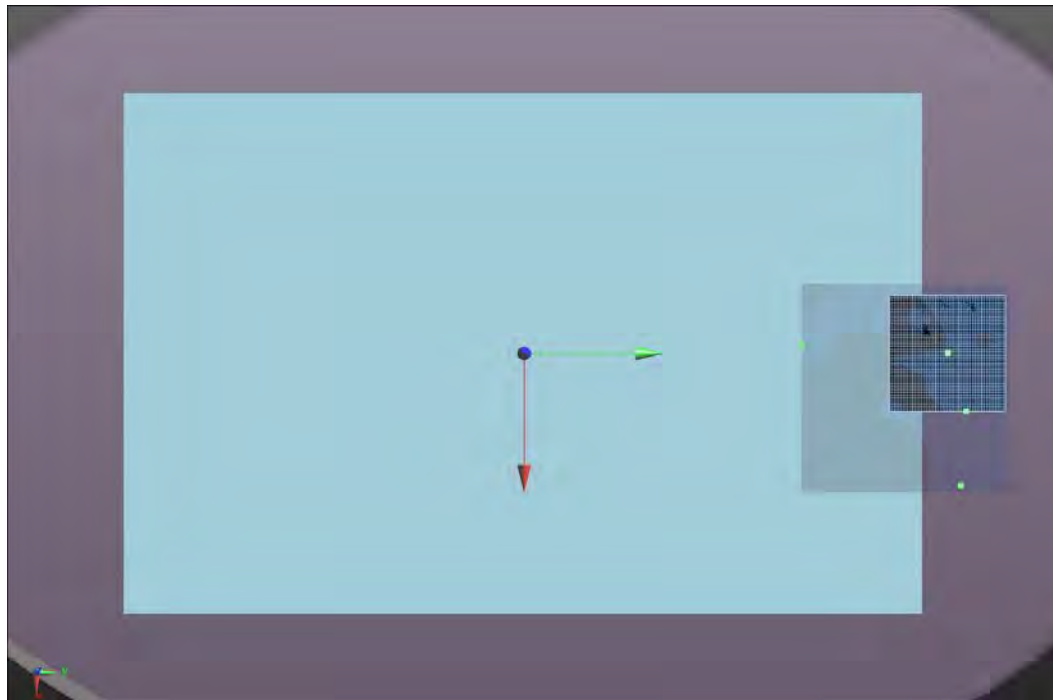
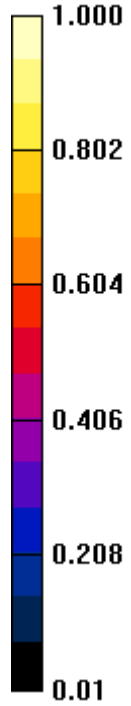
Body/Body/Area scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0994 W/kg

 
Approved By

Test 130
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.9
Date:	4/1/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 131

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.791$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.352 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.81 W/kg

SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.264 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.68 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.319 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.246 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

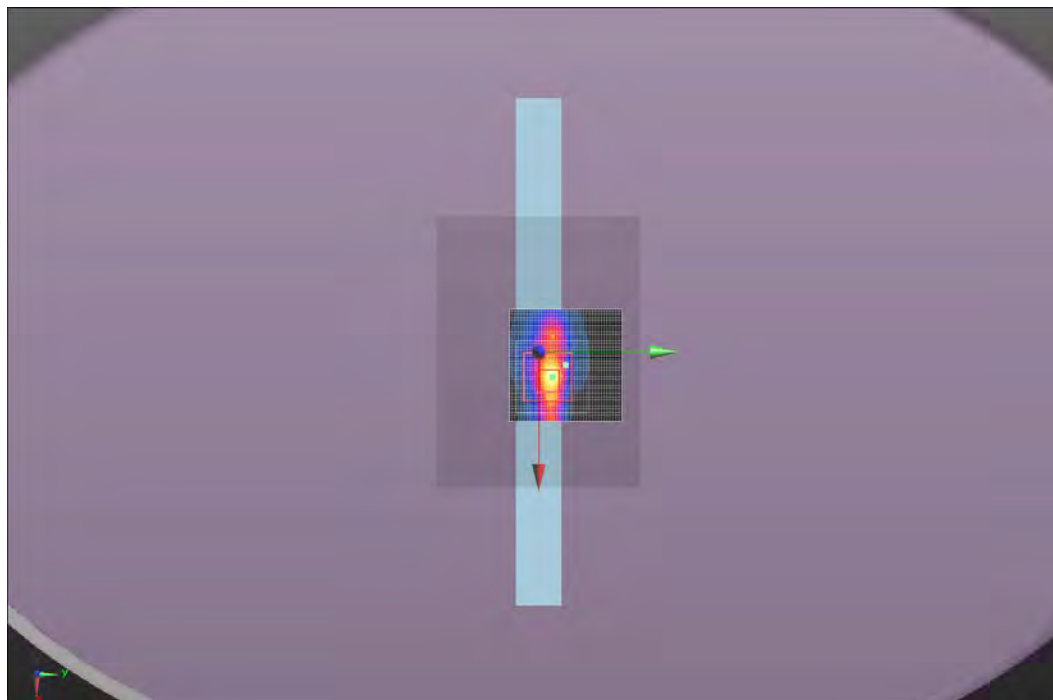
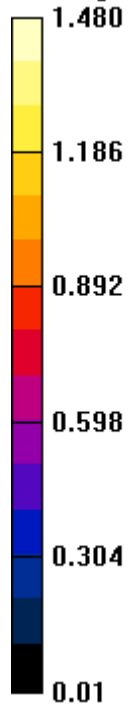
Maximum value of SAR (interpolated) = 1.47 W/kg

Maximum value of SAR (measured) = 0.323 W/kg



Approved By

Test 131
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	24.2
Date:	4/1/2014	Liquid Temperature (°C):	21.1
Serial Number:	010	Humidity (%RH):	34
Configuration:	INTE5434-1	Bar. Pressure (mb):	1012
Comments:	None		

Test 131b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5795 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.22$ S/m; $\epsilon_r = 46.618$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.310 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 0.870 W/kg; SAR(10 g) = 0.270 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.80 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.305 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.532 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

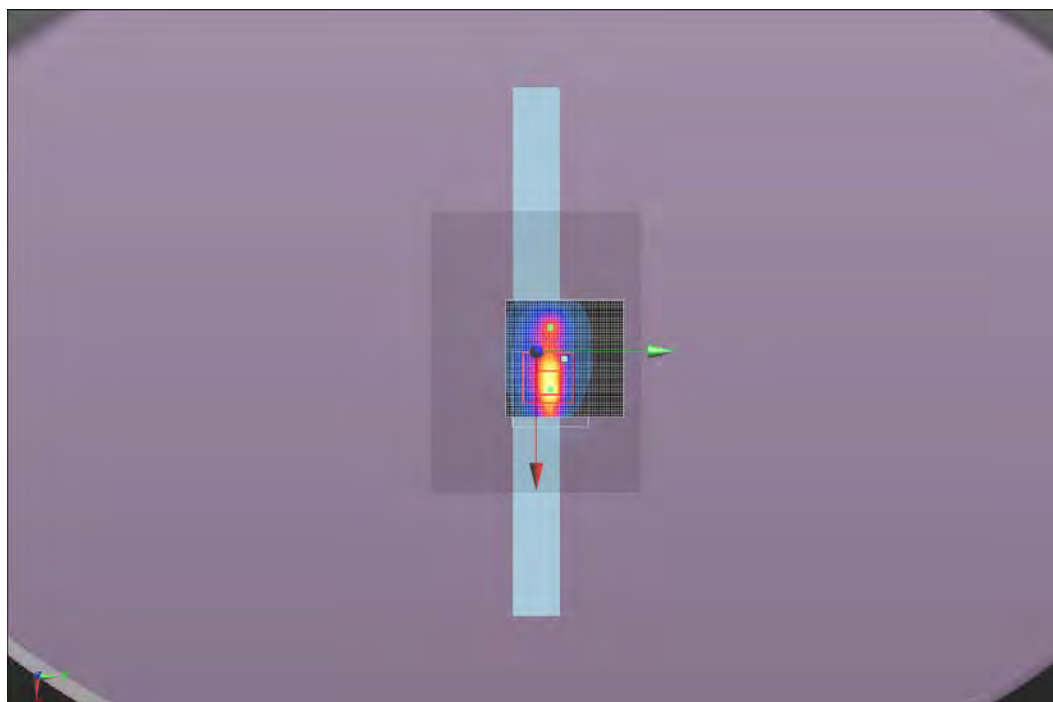
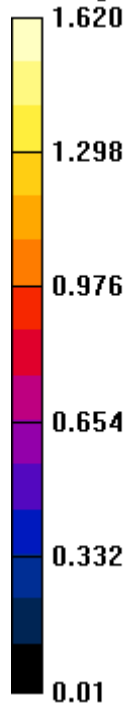
Maximum value of SAR (measured) = 0.353 W/kg



Approved By

Test 131b

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.6
Date:	4/9/2014	Liquid Temperature (°C):	21.8
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	Power level 14.0		

Test 132b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.114$ S/m; $\epsilon_r = 46.898$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.607 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 5.40 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.365 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.41 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.28 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.323 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

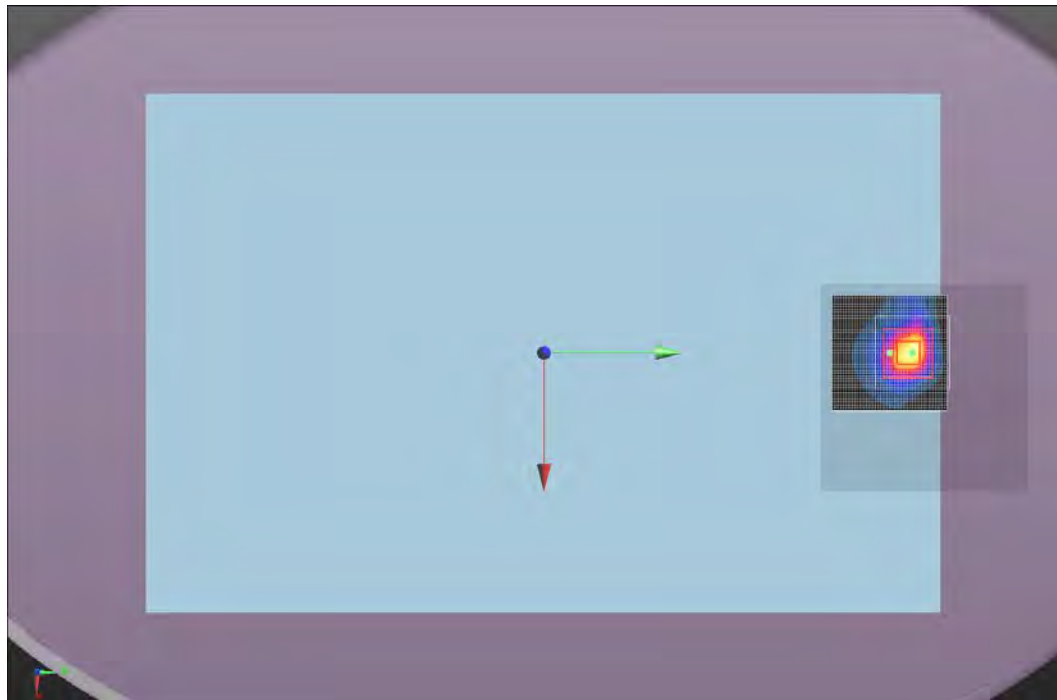
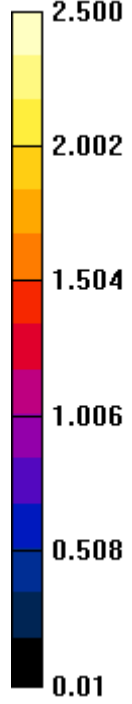
Maximum value of SAR (interpolated) = 2.40 W/kg

Maximum value of SAR (measured) = 0.423 W/kg



Approved By

Test 132b
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	26.7
Date:	4/10/2014	Liquid Temperature (°C):	23.4
Serial Number:	010	Humidity (%RH):	26.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 14.0		

Test 132d

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5795 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.204$ S/m; $\epsilon_r = 46.722$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.477 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 7.83 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.350 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.42 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.42 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of Total (measured) = 8.234 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

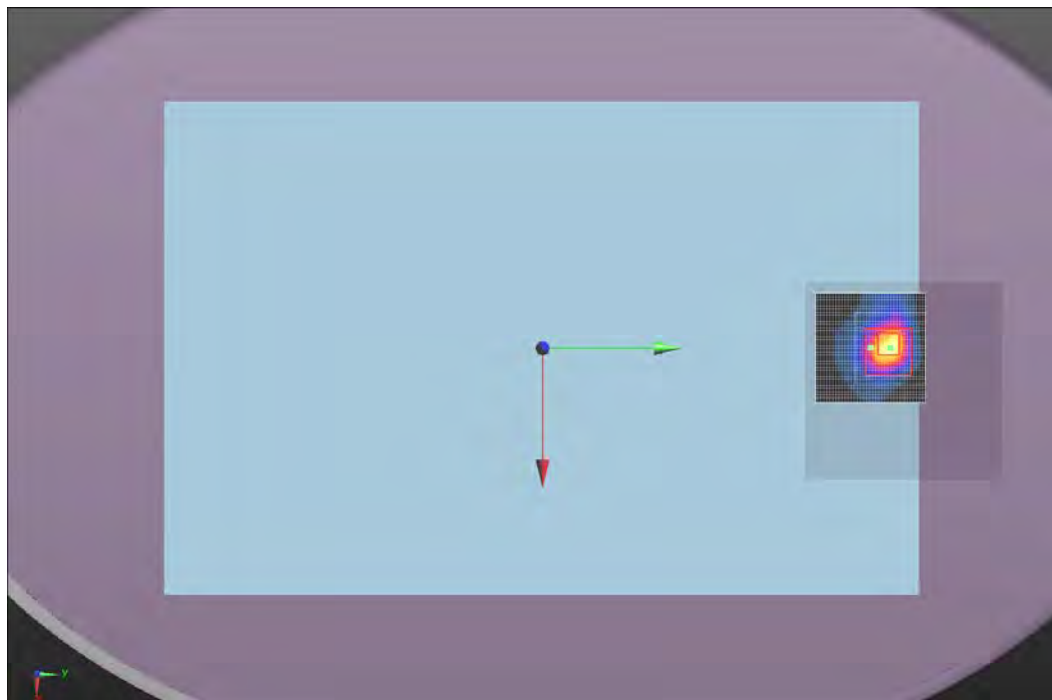
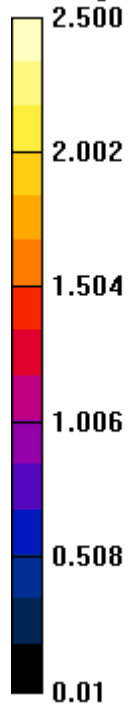
Maximum value of SAR (interpolated) = 2.42 W/kg

Maximum value of SAR (measured) = 0.421 W/kg

 
Approved By

Test 132d

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.6
Serial Number:	010	Humidity (%RH):	37.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 145

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.19$ S/m; $\epsilon_r = 46.705$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.636 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.240 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.219 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 6.226 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

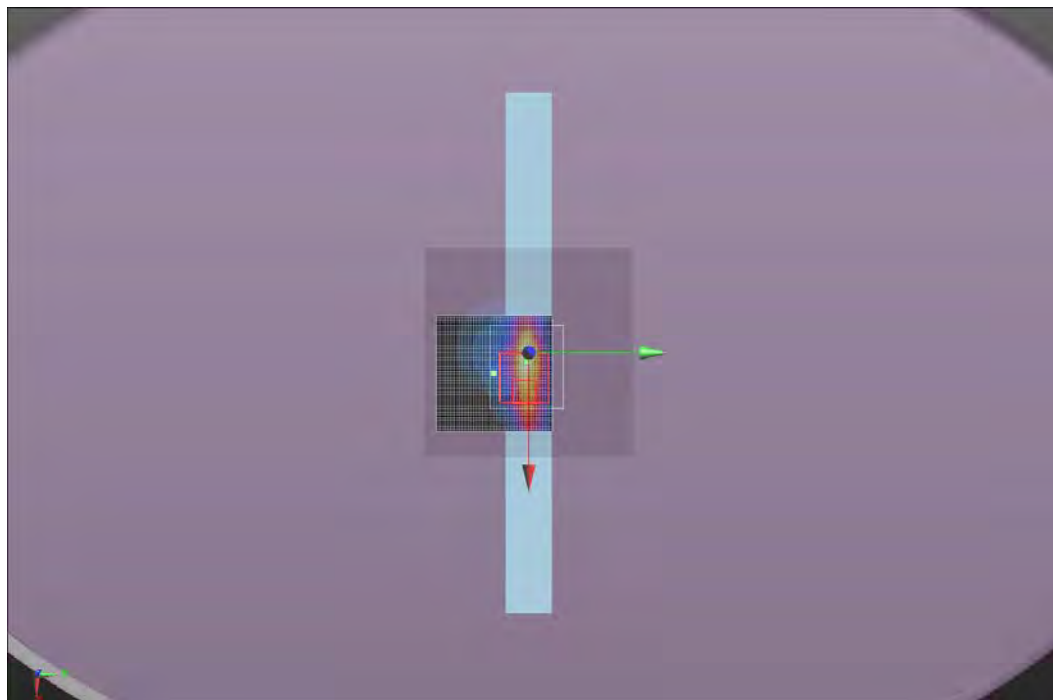
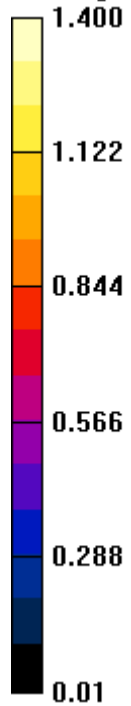
[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Maximum value of SAR (measured) = 0.240 W/kg

 
Approved By

Test 145
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.7
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	35.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 146

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.19$ S/m; $\epsilon_r = 46.705$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.536 V/m; Power Drift = -0.63 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.141 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.181 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.203 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.612 V/m

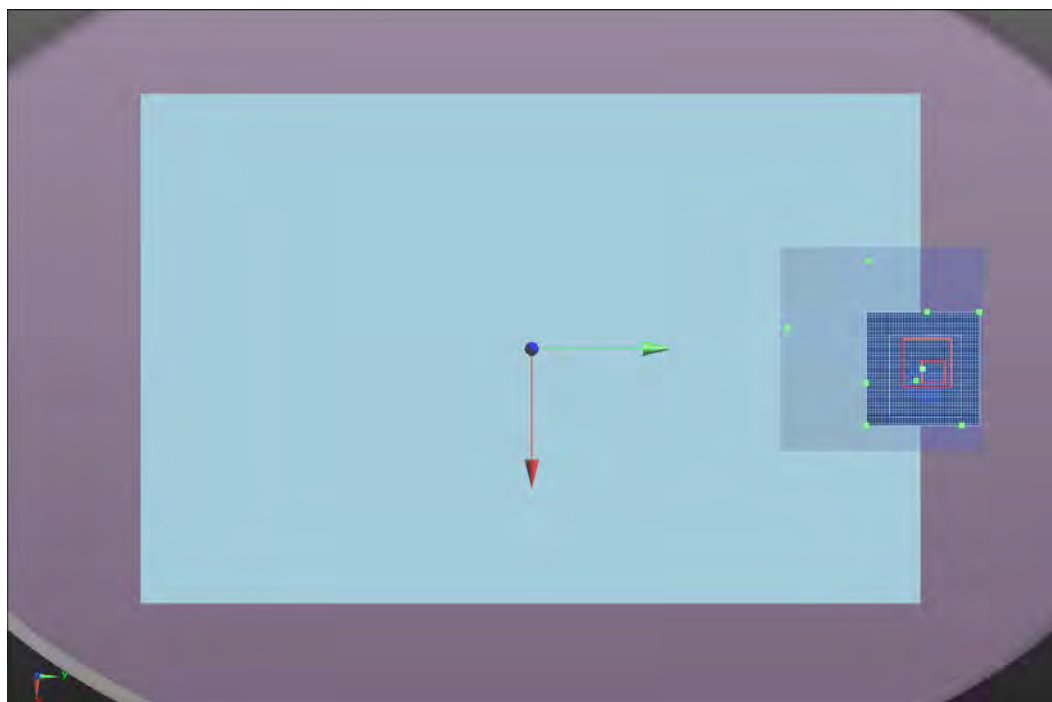
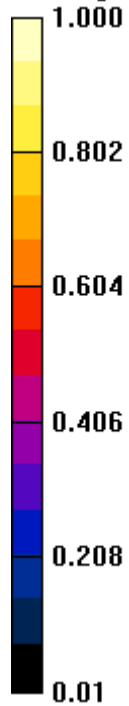
Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.177 W/kg

Approved By

Test 146
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	21.9
Date:	4/3/2014	Liquid Temperature (°C):	20.1
Serial Number:	010	Humidity (%RH):	34.8
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	None		

Test 147

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.19$ S/m; $\epsilon_r = 46.705$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.171 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.05 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.256 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.81 W/kg

Body/Body/Reference scan (41x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.195 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.487 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

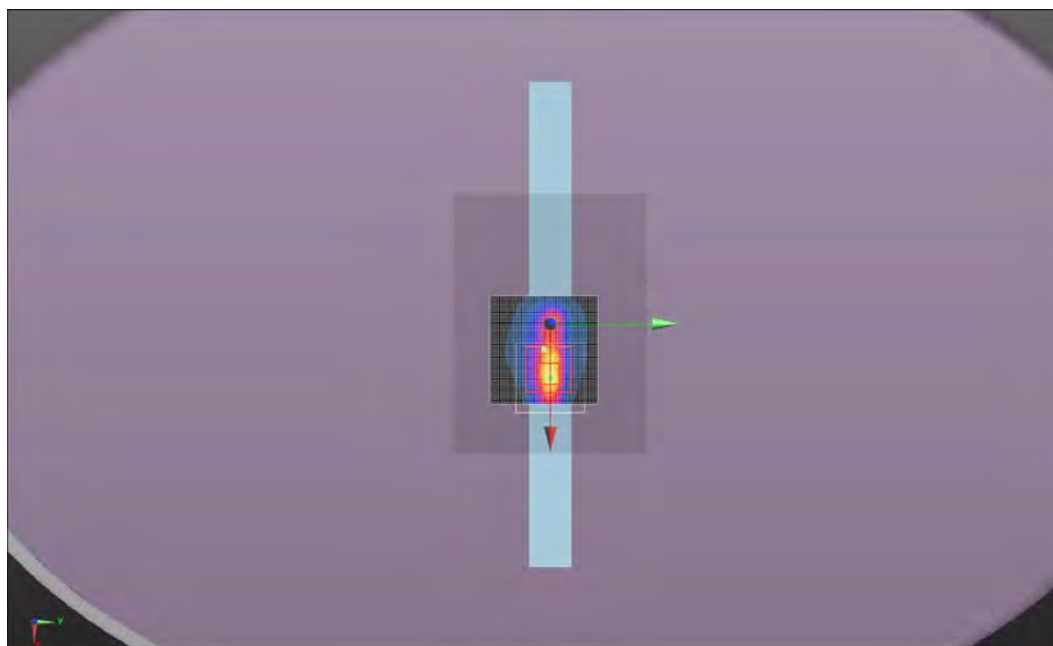
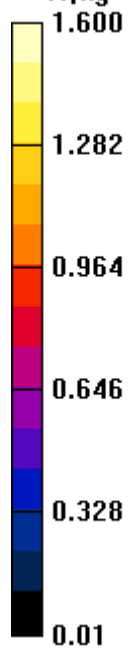
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.53 W/kg

Maximum value of SAR (measured) = 0.347 W/kg

 
Approved By

Test 147
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.8
Date:	4/10/2014	Liquid Temperature (°C):	20.4
Serial Number:	010	Humidity (%RH):	33
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	None		

Test 147a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5690 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 6.008$ S/m; $\epsilon_r = 47.173$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.455 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 0.774 W/kg; SAR(10 g) = 0.277 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.53 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.217 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.535 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.35 W/kg

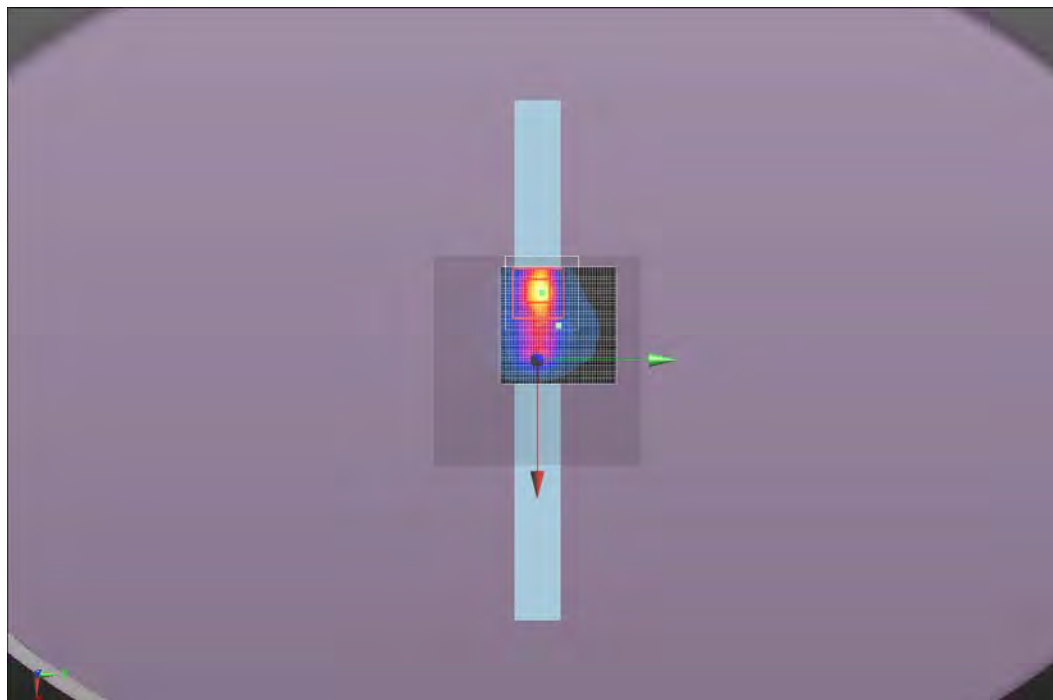
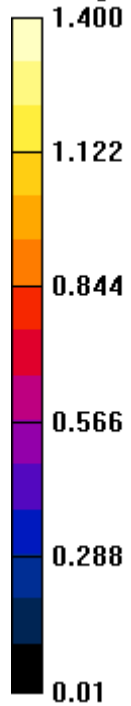
Maximum value of SAR (measured) = 0.546 W/kg



Approved By

Test 147a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.9
Date:	4/9/2014	Liquid Temperature (°C):	23.3
Serial Number:	010	Humidity (%RH):	41.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Power level 13.5		

Test 148a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.81$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.092 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 4.95 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.345 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.22 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.502 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 8.412 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.04 W/kg

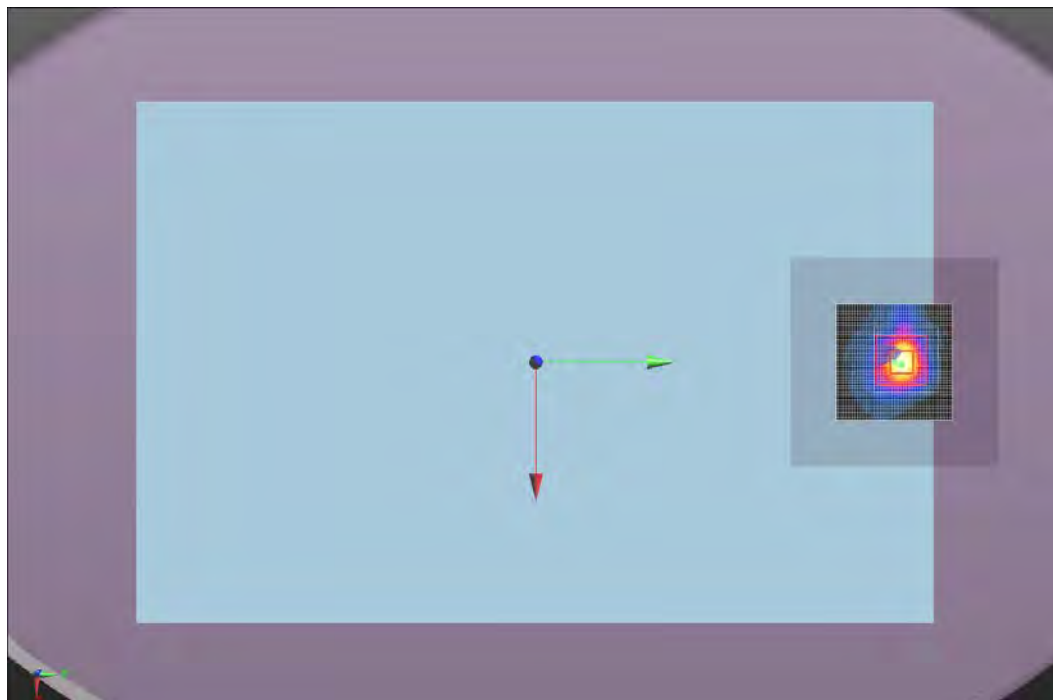
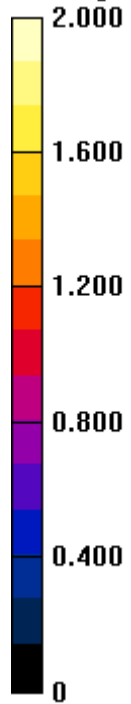
Maximum value of SAR (measured) = 0.436 W/kg




Approved By

Test 148a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	26.7
Date:	4/10/2014	Liquid Temperature (°C):	23.4
Serial Number:	010	Humidity (%RH):	26.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 13.5		

Test 148c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5690 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 6.008$ S/m; $\epsilon_r = 47.173$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.127 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 5.88 W/kg

SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.399 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.564 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.451 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

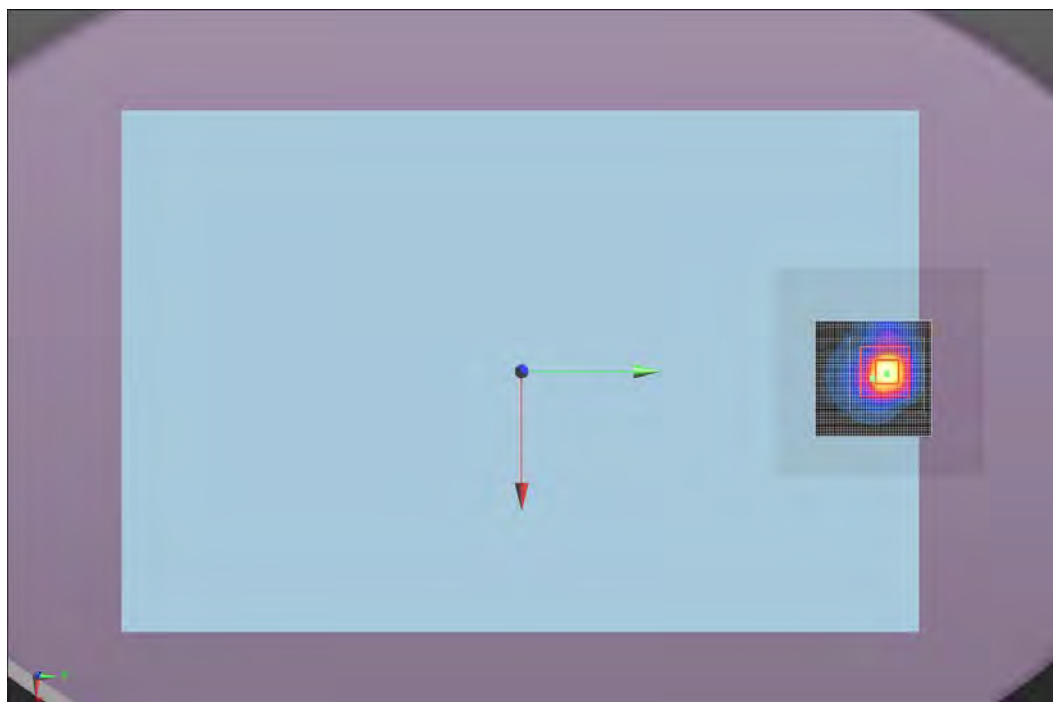
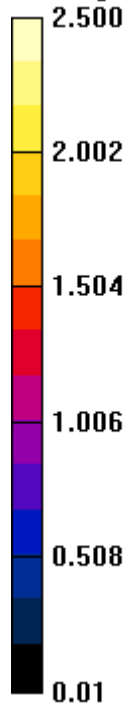
Maximum value of SAR (interpolated) = 2.54 W/kg

Maximum value of SAR (measured) = 0.537 W/kg

Approved By

Test 148c
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.3
Date:	4/3/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 161a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5765 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5765$ MHz; $\sigma = 6.174$ S/m; $\epsilon_r = 46.748$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 15.934 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 4.70 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.288 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.315 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.266 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.09 W/kg

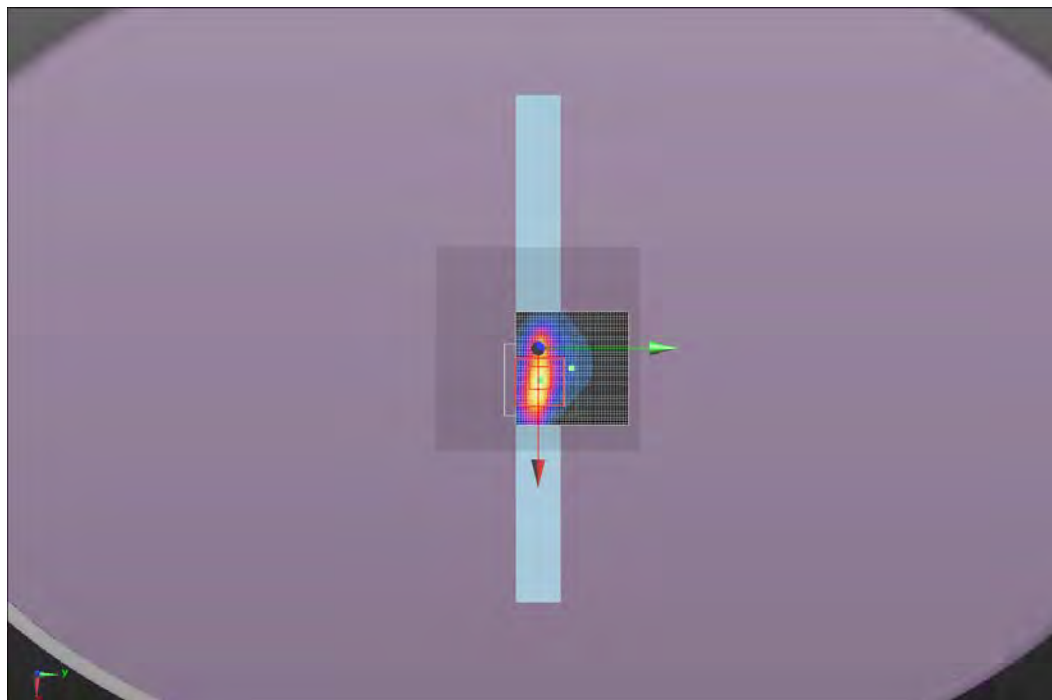
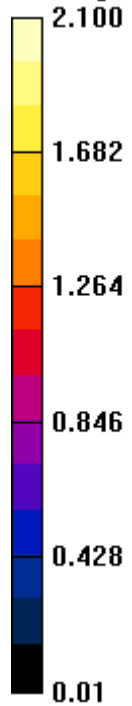
Maximum value of SAR (measured) = 0.326 W/kg



Approved By

Test 161a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.1
Date:	4/3/2014	Liquid Temperature (°C):	20.6
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 161b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.27$ S/m; $\epsilon_r = 46.48$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.478 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 4.15 W/kg

SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.268 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.80 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.328 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.762 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

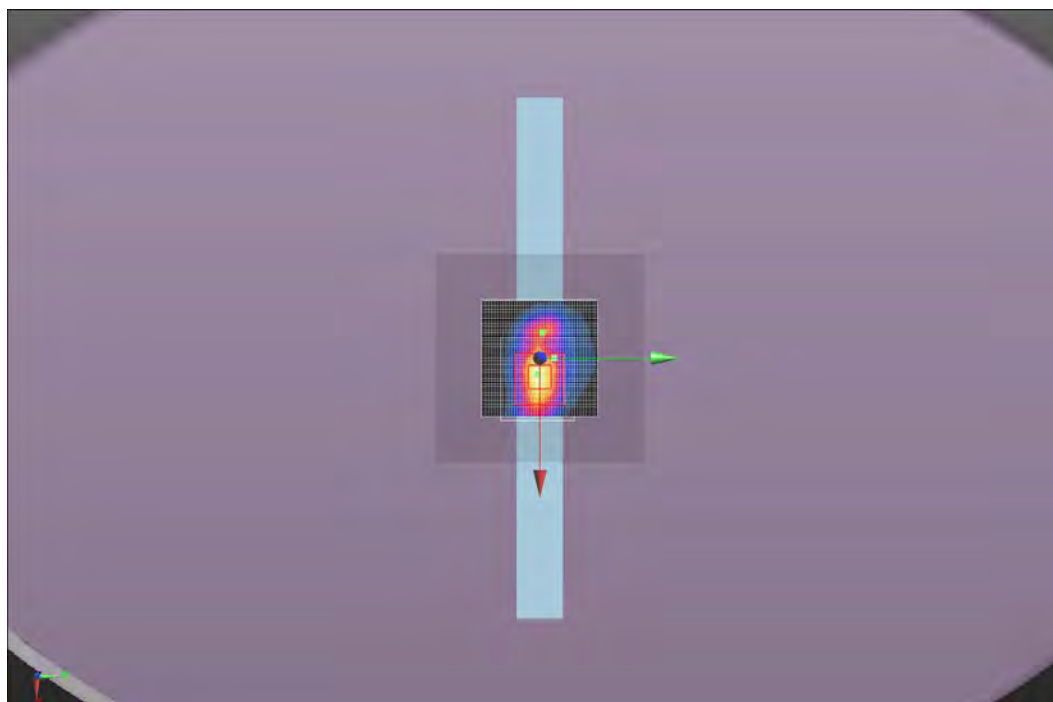
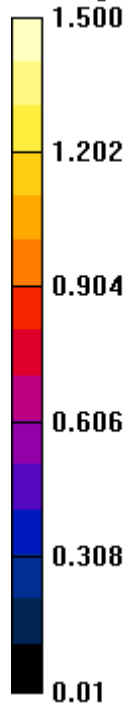
Maximum value of SAR (interpolated) = 1.45 W/kg

Maximum value of SAR (measured) = 0.287 W/kg



Approved By

Test 161b
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.6
Date:	4/4/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1014
Comments:	None		

Test 162

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5765 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5765$ MHz; $\sigma = 6.106$ S/m; $\epsilon_r = 46.871$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (13x11x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.427 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.126 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.174 W/kg

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.138 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.0970 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 9.676 V/m

Body/Body/Area scan 3 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.150 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.104 W/kg

Body/Body/Area scan 3 (6x6x1): Measurement grid: dx=10mm, dy=10mm

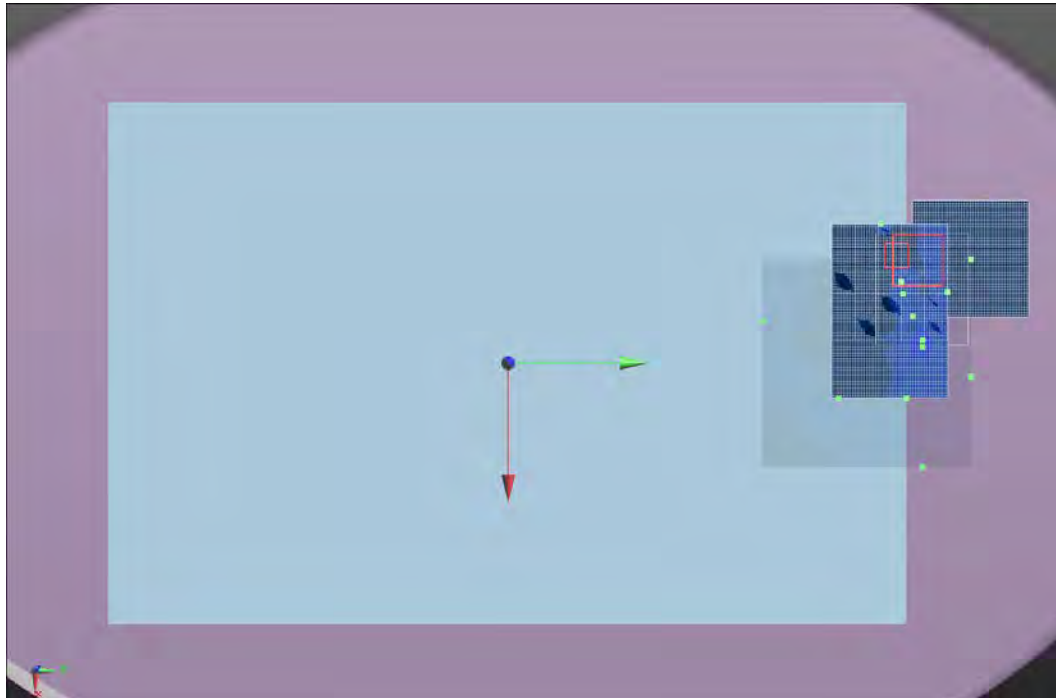
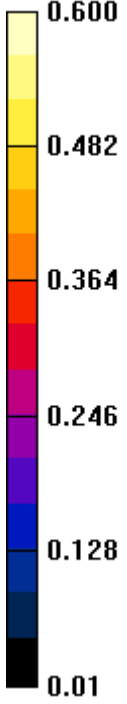
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.148 W/kg



Approved By

Test 162
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.7
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	30.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 163

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5765 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5765$ MHz; $\sigma = 6.106$ S/m; $\epsilon_r = 46.871$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.836 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 4.76 W/kg

SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.282 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.18 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.453 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.743 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

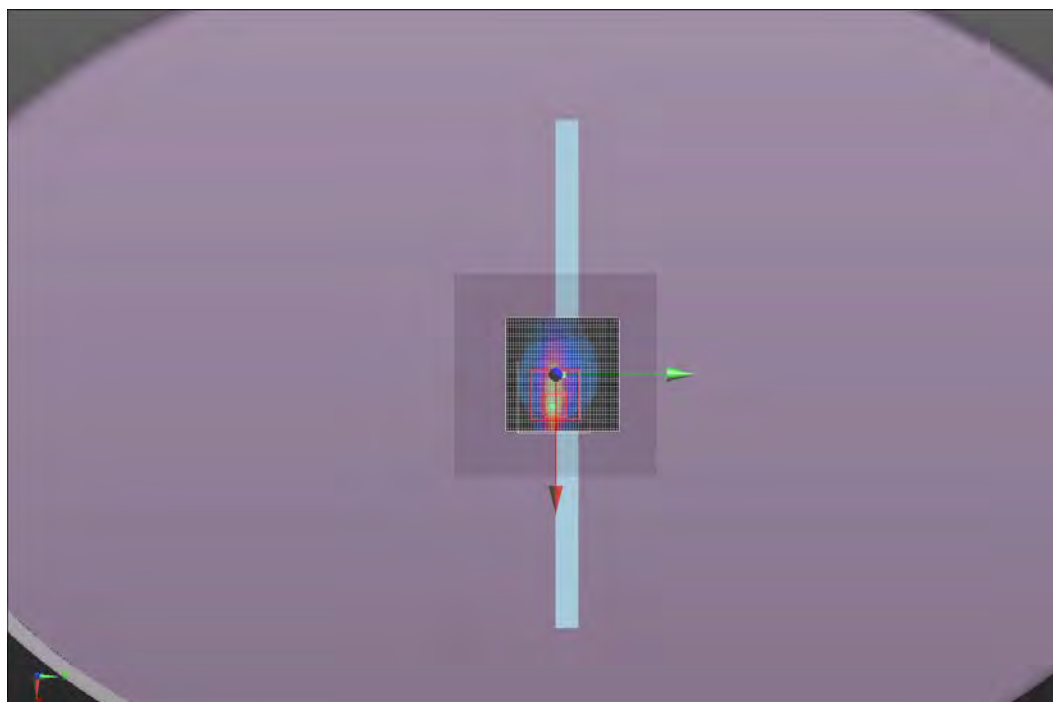
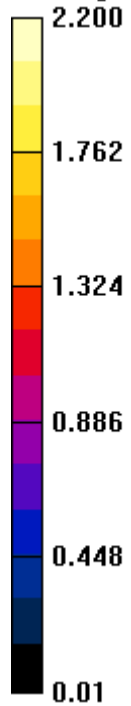
Maximum value of SAR (interpolated) = 2.27 W/kg

Maximum value of SAR (measured) = 0.366 W/kg




Approved By

Test 163
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	25.7
Date:	4/5/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	30.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 163a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.213$ S/m; $\epsilon_r = 46.635$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.667 V/m; Power Drift = -999.00 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.361 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.54 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 0.8047 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.54 W/kg

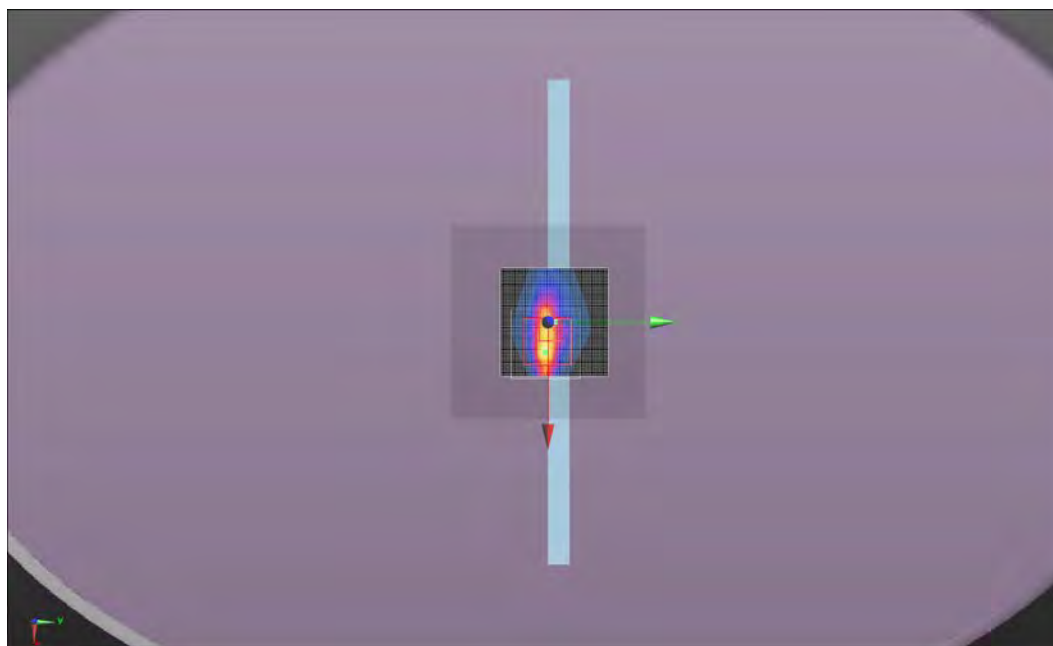
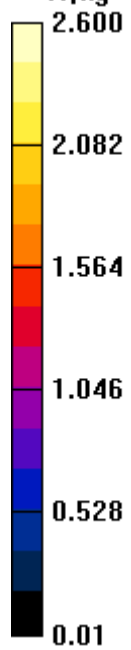
Maximum value of SAR (measured) = 0.00402 W/kg

Approved By

Test 163a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.5
Date:	4/6/2014	Liquid Temperature (°C):	22
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 177

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.086$ S/m; $\epsilon_r = 46.912$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.731 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 0.788 W/kg; SAR(10 g) = 0.236 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.238 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.702 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

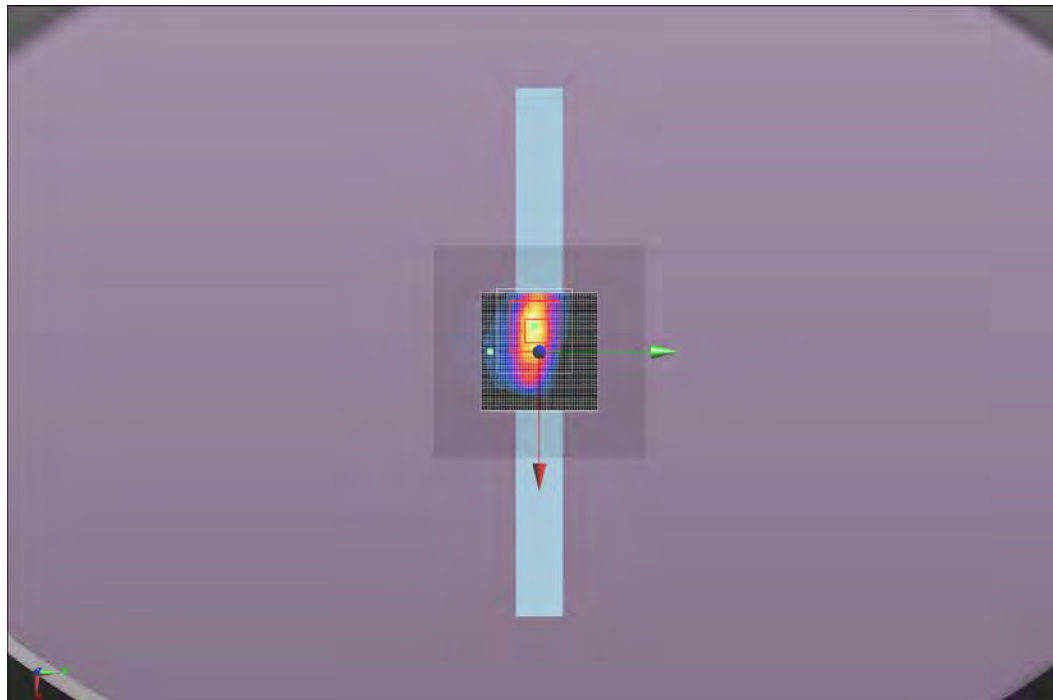
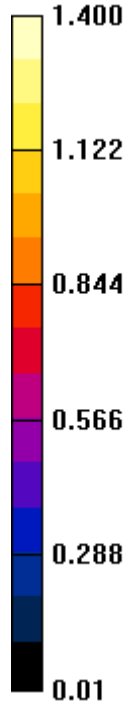
Maximum value of SAR (interpolated) = 1.32 W/kg

Maximum value of SAR (measured) = 0.273 W/kg



Approved By

Test 177
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.4
Date:	4/6/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	36
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 178

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.086$ S/m; $\epsilon_r = 46.912$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.147 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.136 W/kg

Body/Body/Area scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

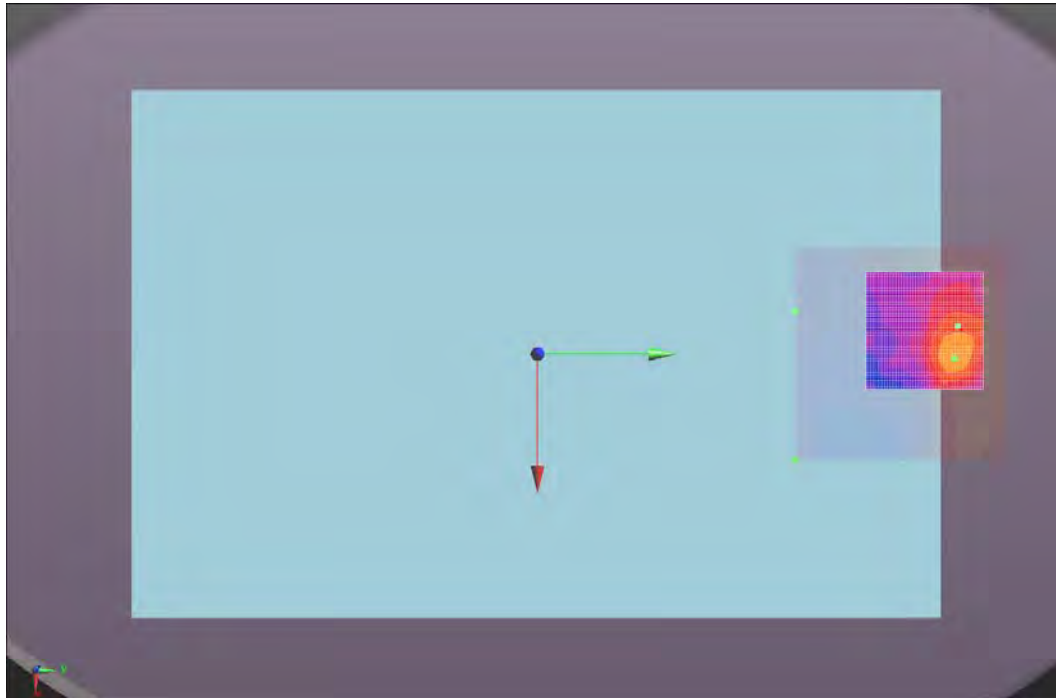
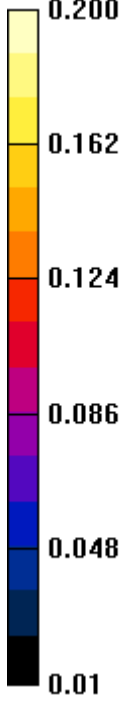
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.130 W/kg



Approved By

Test 178
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.4
Date:	4/7/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 179

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.086$ S/m; $\epsilon_r = 46.912$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.402 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.75 W/kg

SAR(1 g) = 0.964 W/kg; SAR(10 g) = 0.270 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.14 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.449 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.783 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

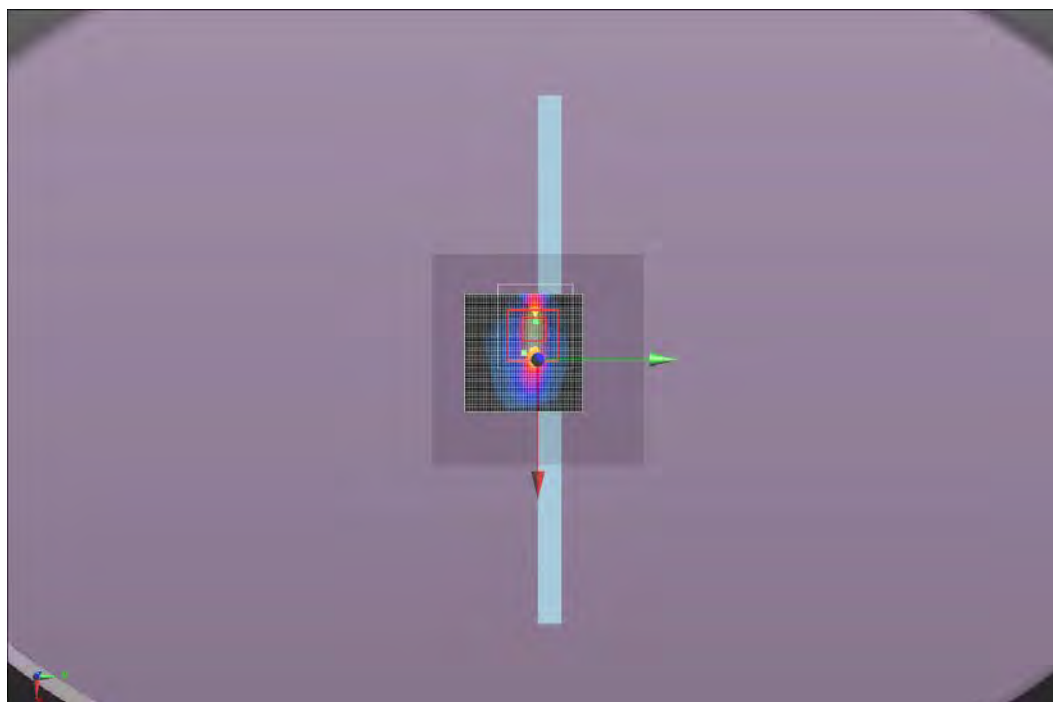
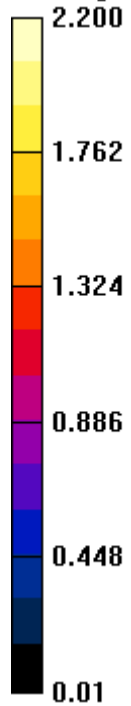
Maximum value of SAR (interpolated) = 2.15 W/kg

Maximum value of SAR (measured) = 0.369 W/kg




Approved By

Test 179
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.4
Date:	4/7/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	39
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 179a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5795 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.166$ S/m; $\epsilon_r = 46.748$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.719 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 6.36 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.367 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.80 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.570 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.911 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

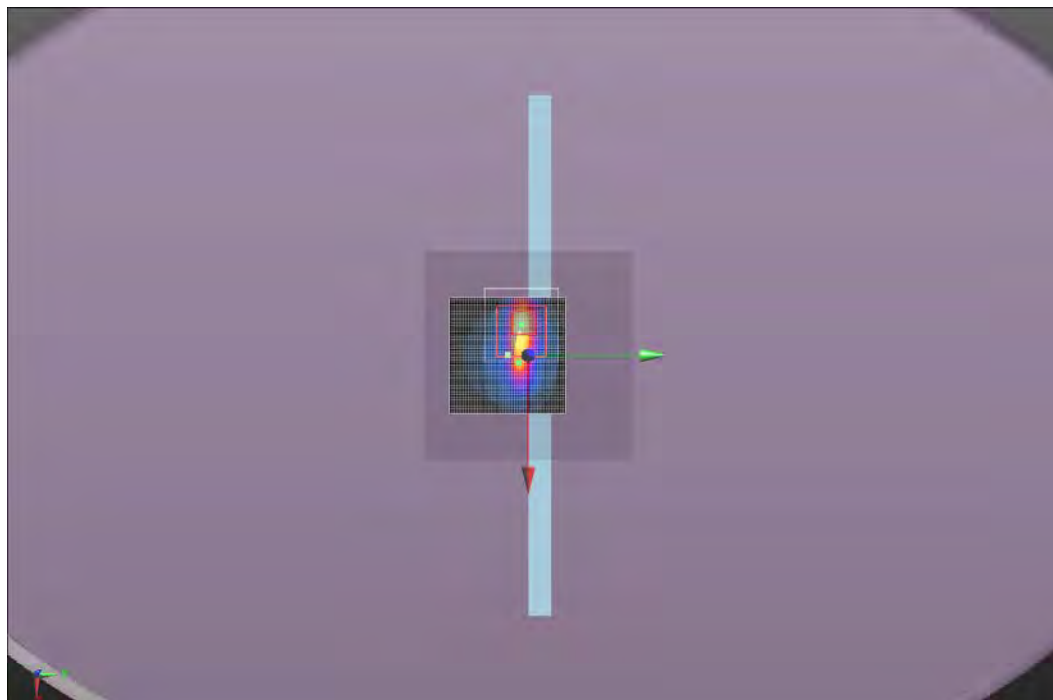
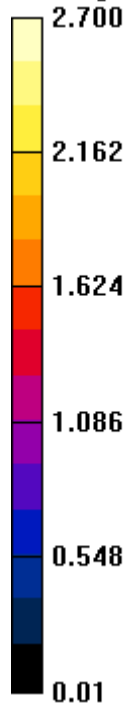
Maximum value of SAR (interpolated) = 2.70 W/kg

Maximum value of SAR (measured) = 0.490 W/kg

 
Approved By

Test 179a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	24.3
Date:	4/7/2014	Liquid Temperature (°C):	21.9
Serial Number:	010	Humidity (%RH):	38.7
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 180b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5755 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5755$ MHz; $\sigma = 6.114$ S/m; $\epsilon_r = 46.898$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.620 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 0.668 W/kg; SAR(10 g) = 0.323 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.20 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.409 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 10.06 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

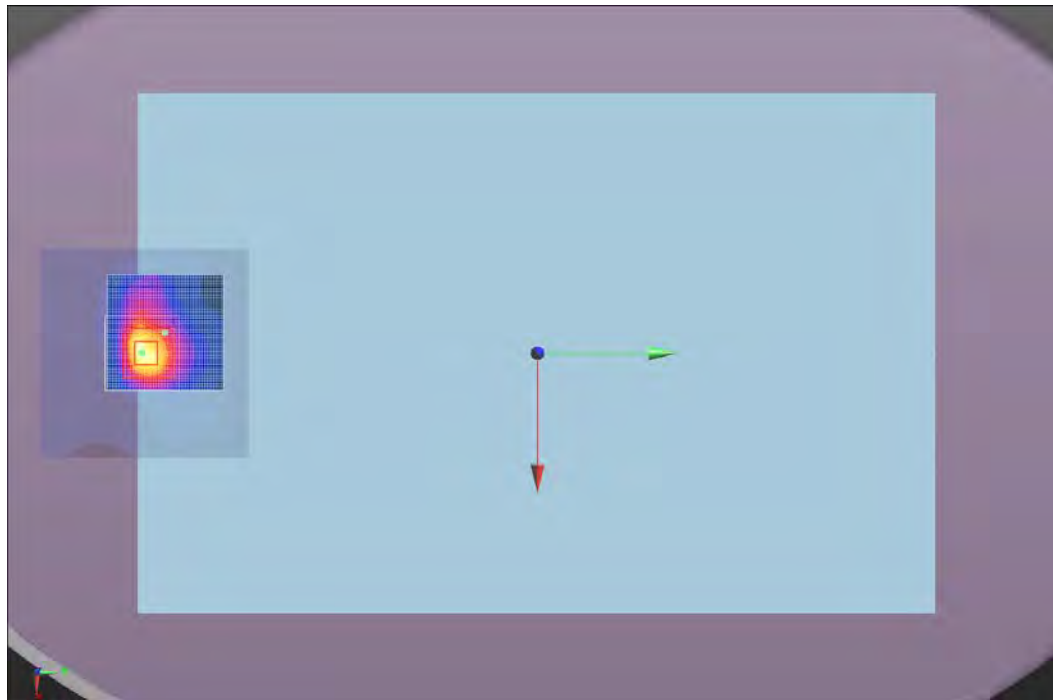
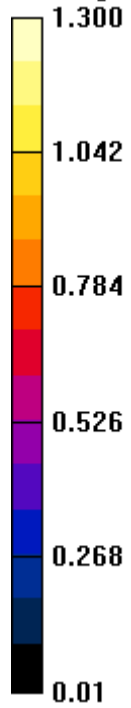
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.25 W/kg

Maximum value of SAR (measured) = 0.619 W/kg

 
Approved By

Test 180b
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/6/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 193

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.126$ S/m; $\epsilon_r = 46.83$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.124 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.169 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.29 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.372 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.635 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

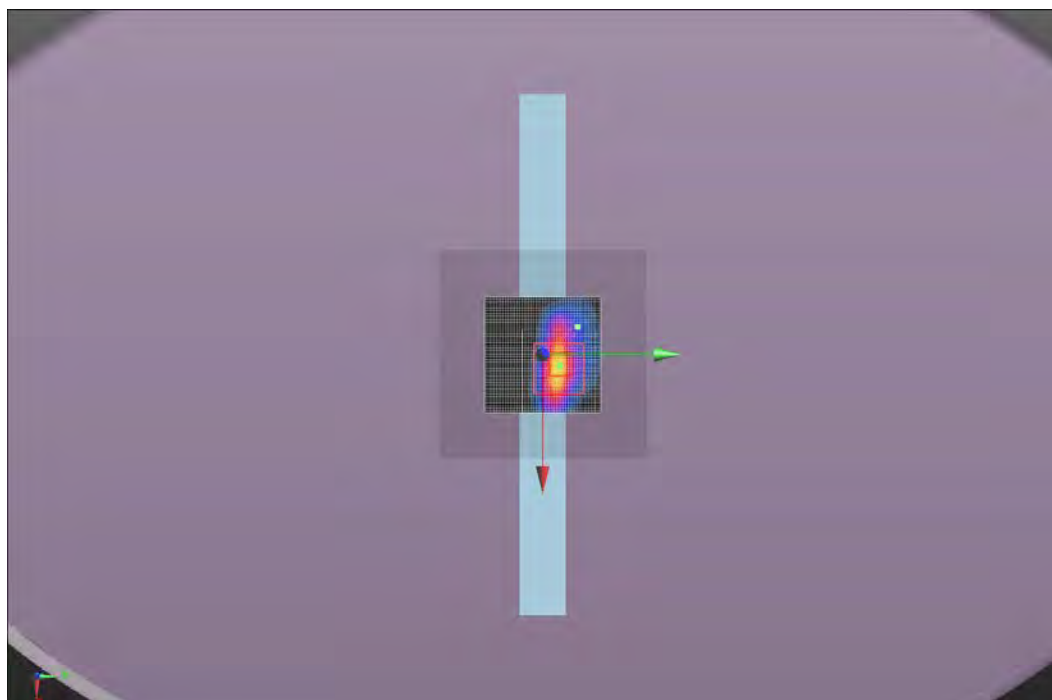
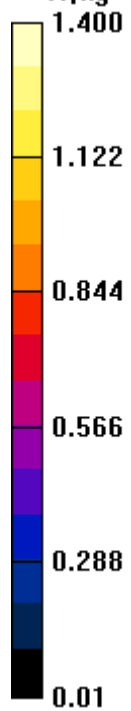
Maximum value of SAR (interpolated) = 1.14 W/kg

Maximum value of SAR (measured) = 0.195 W/kg



Approved By

Test 193
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/6/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	35
Configuration:	INTE5434-1	Bar. Pressure (mb):	1023
Comments:	None		

Test 194

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.81$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.165 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

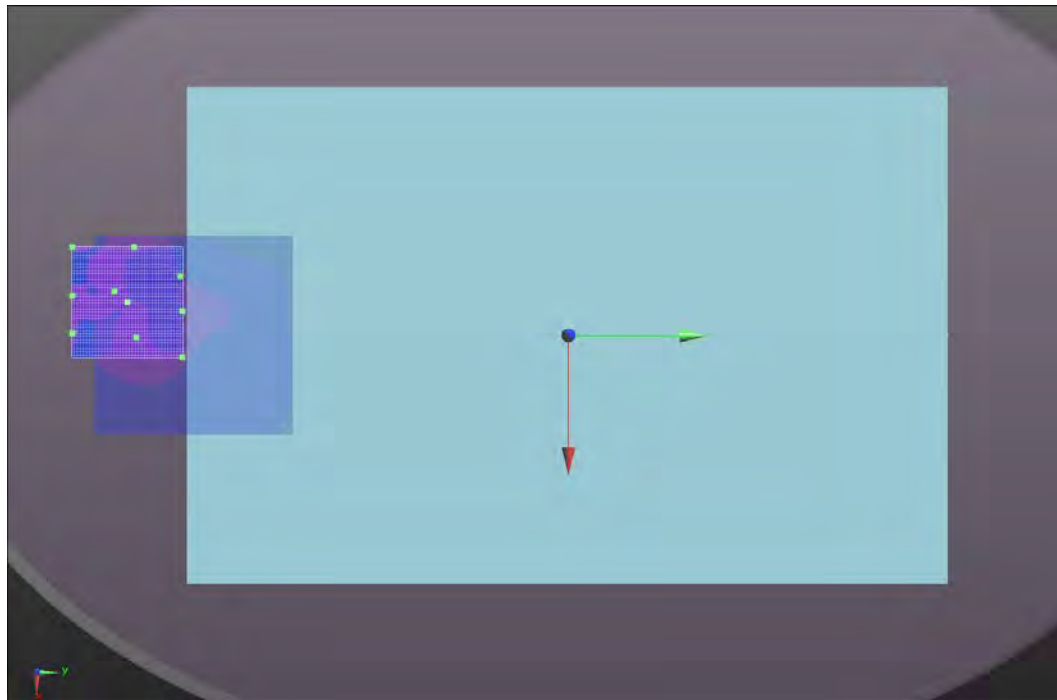
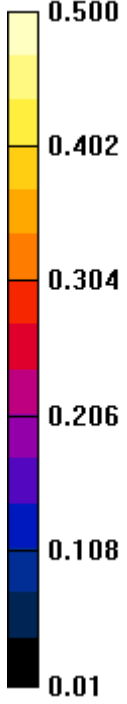
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.162 W/kg



Approved By

Test 194
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.3
Date:	4/7/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	45
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 195

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.126$ S/m; $\epsilon_r = 46.83$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.691 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 4.10 W/kg

SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.239 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.436 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.865 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

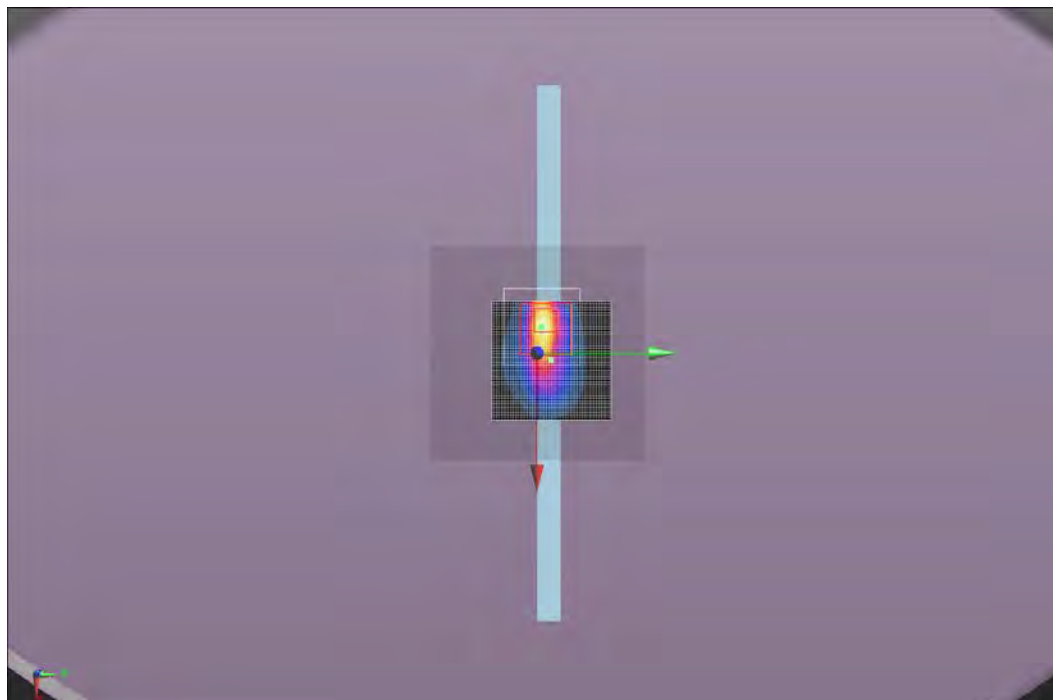
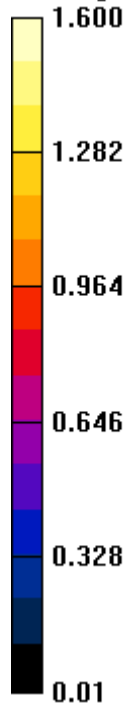
Maximum value of SAR (interpolated) = 1.60 W/kg

Maximum value of SAR (measured) = 0.289 W/kg



Approved By

Test 195
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.8
Date:	4/11/2014	Liquid Temperature (°C):	22.1
Serial Number:	010	Humidity (%RH):	30
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 195a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5680 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5680$ MHz; $\sigma = 6.045$ S/m; $\epsilon_r = 47.893$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.270 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.193 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.55 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.214 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 6.809 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.61 W/kg

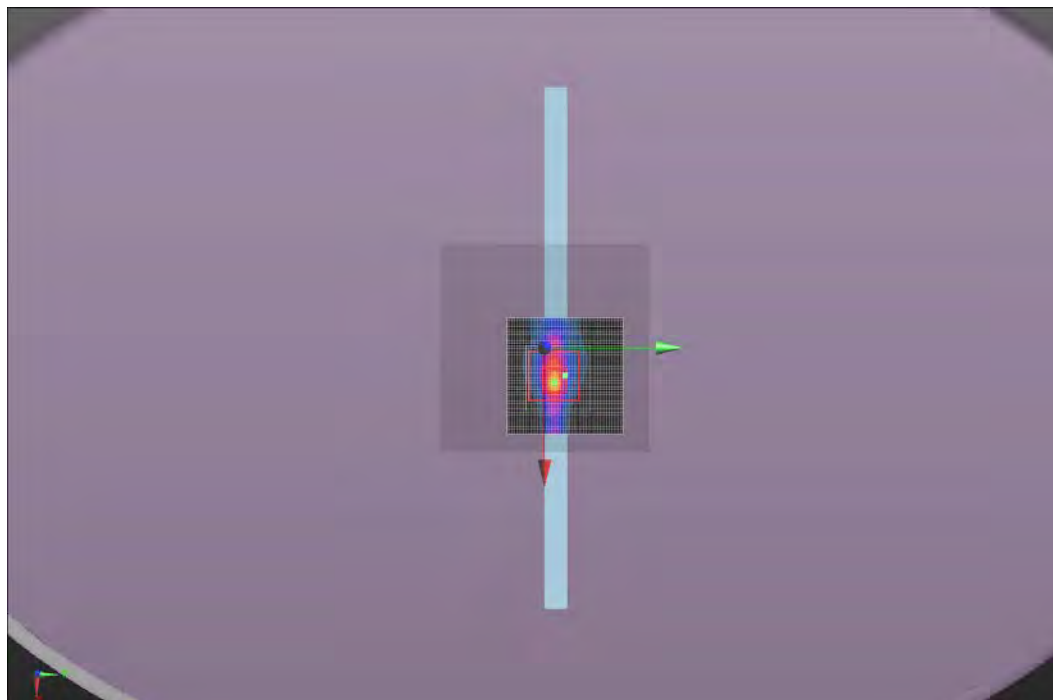
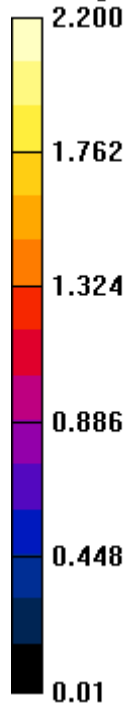
Maximum value of SAR (measured) = 0.280 W/kg

Approved By

Test 195a

W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.1
Date:	4/7/2014	Liquid Temperature (°C):	21.6
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1020
Comments:	None		

Test 196

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.81$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.590 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 6.29 W/kg

SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.516 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.49 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.598 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.18 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

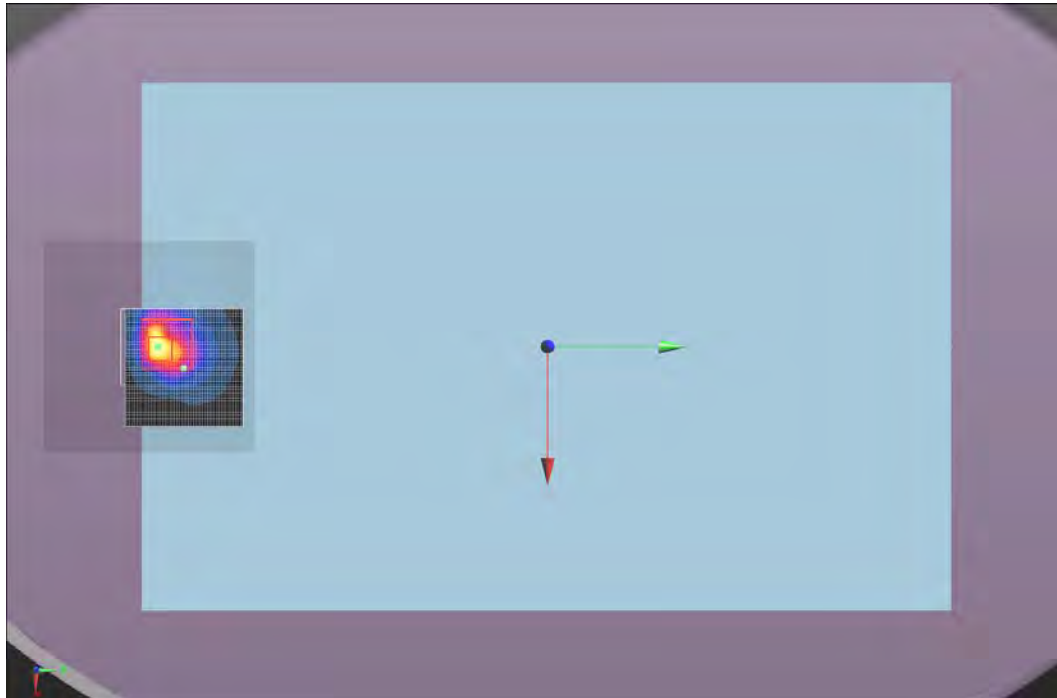
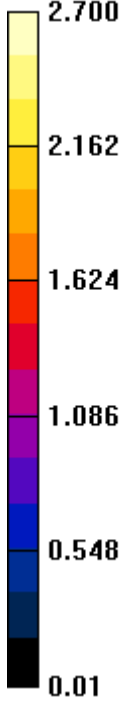
Maximum value of SAR (interpolated) = 2.65 W/kg

Maximum value of SAR (measured) = 0.638 W/kg



Approved By

Test 196
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.6
Date:	4/10/2014	Liquid Temperature (°C):	22.5
Serial Number:	010	Humidity (%RH):	31.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	None		

Test 196a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5690 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5690$ MHz; $\sigma = 6.008$ S/m; $\epsilon_r = 47.173$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.540 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.231 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.394 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 5.998 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

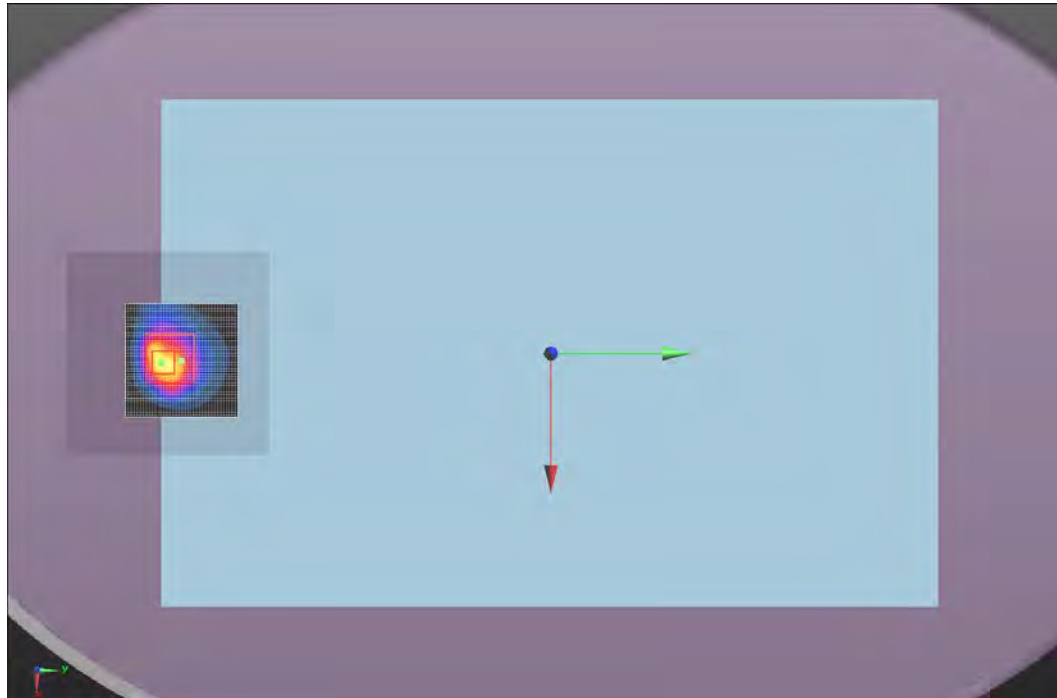
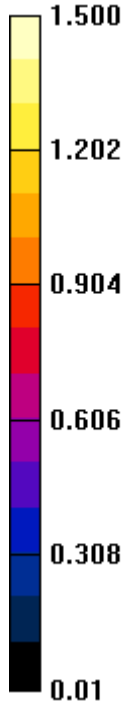
Maximum value of SAR (measured) = 0.216 W/kg

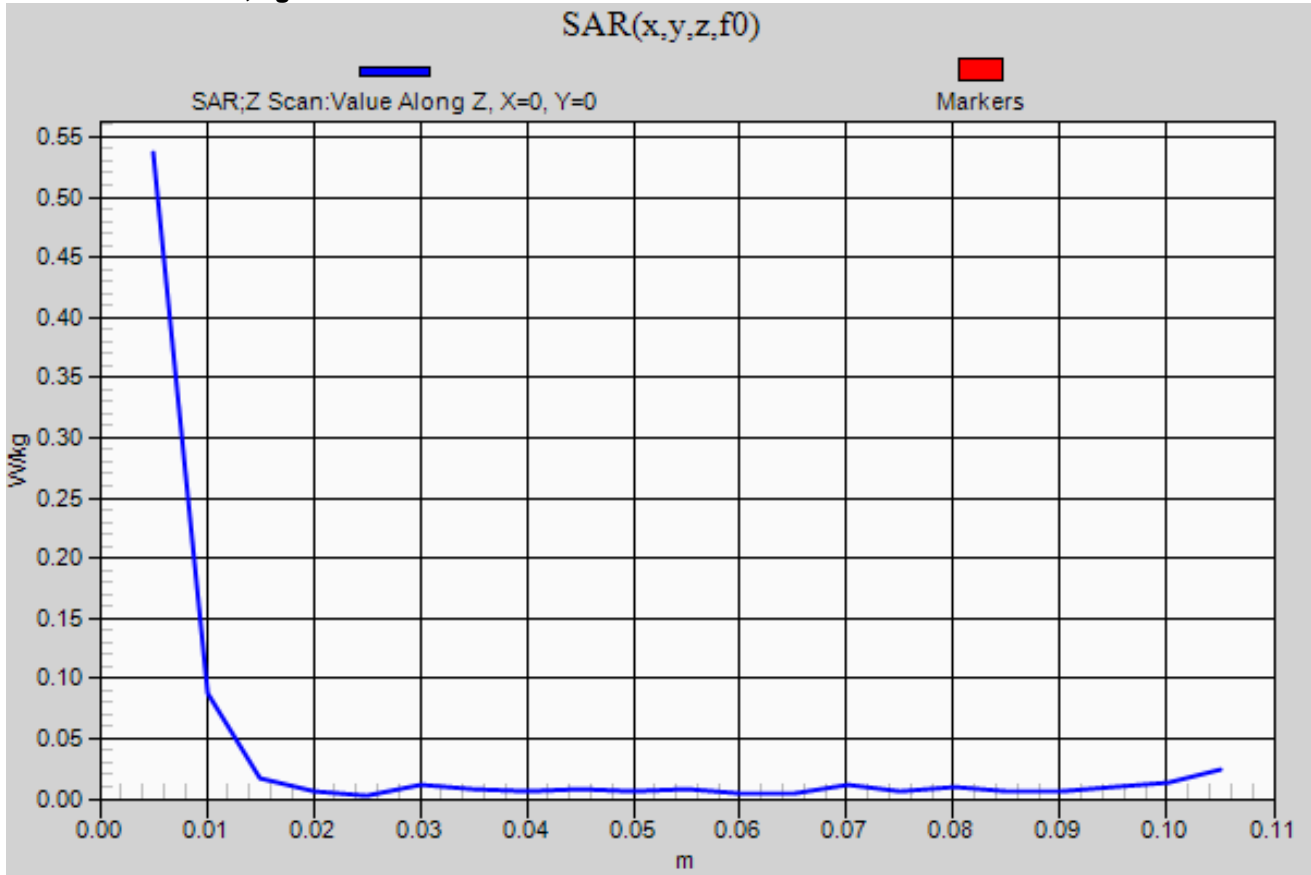
Approved By

Test 196a

W/kg



Test 148c – Z Scan, 1g SAR



EUT:	WSBUB-SDS	Work Order:	INTE5434
Customer:	Intel Corporation	Job Site:	EV08
Attendees:	Mike Lowe, Bill Jones	Customer Project:	None

TEST SPECIFICATIONS

Specification:	Method:
FCC 2.1093:2014 FCC 15.247:2014	IEEE Std 1528:2003 FCC KDB 447498 D01 v05r02 FCC KDB 248227 D01 v01r02 FCC KDB 616217 D04 v01r01 FCC 865664 D01 v01r03 and D02 v01r01

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

RESULTS

Test Configuration	Frequency Band	Transmit Frequency (MHz)	Transmit Channel	Data Rate (Mbps)	Channel Bandwidth (MHz)	Antenna Port	Mode	EUT Position	Power Drift During Test (dB)	Measured 1g SAR Level (mW/g)	Measured 10g SAR Level (mW/g)	Test #
Body	5.2	5240	48	MCSO (ac)	20	A&B	Tent	Back	-1.18	0.51	0.17	197
Body	5.3	5280	56	MCSO (ac)	20	A&B	Tent	Back	-0.02	0.73	0.26	198
Body	5.6	5580	116	MCSO8 (ac)	20	A&B	Tent	Back	-0.05	0.78	0.27	199
Body	5.8	5785	157	MCSO (ac)	20	A&B	Tent	Back	0.03	0.68	0.22	200
Body	5.2	5230	44/48	MCSO (ac)	40	A&B	Tent	Back	-0.08	0.67	0.24	201
Body	5.3	5270	52/56	MCSO (ac)	40	A&B	Tent	Back	-0.11	0.72	0.25	202
Body	5.6	5550	108/112	MCSO (ac)	40	A&B	Tent	Back	-0.06	0.64	0.21	203
Body	5.8	5795	157/161	MCSO (ac)	40	A&B	Tent	Back	-0.04	0.61	0.18	204
Body	5.2	5210	42	MCSO (ac)	80	A&B	Tent	Back	-0.24	0.18	0.06	205a
Body	5.3	5290	58	MCSO (ac)	80	A&B	Tent	Back	0.00	0.47	0.15	206
Body	5.6	5530	106	MCSO (ac)	80	A&B	Tent	Back	-0.37	0.27	0.10	207
Body	5.8	5775	155	MCSO (ac)	80	A&B	Tent	Back	0.03	0.76	0.24	208

Tested By:	Ethan Schoonover	Room Temperature (°C):	23.2
Date:	4/8/2014	Liquid Temperature (°C):	22.3
Serial Number:	010	Humidity (%RH):	44.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1022
Comments:	None		

Test 197

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium

parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (16x16x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.350 V/m; Power Drift = -1.18 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 0.513 W/kg; SAR(10 g) = 0.171 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.241 V/m

Body/Body/Zoom Scan 2 (15x14x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.127 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.382 W/kg; SAR(10 g) = 0.124 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.758 W/kg

Body/Body/Reference scan (81x121x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.917 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.468 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.767 W/kg

SAR TEST DATA

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

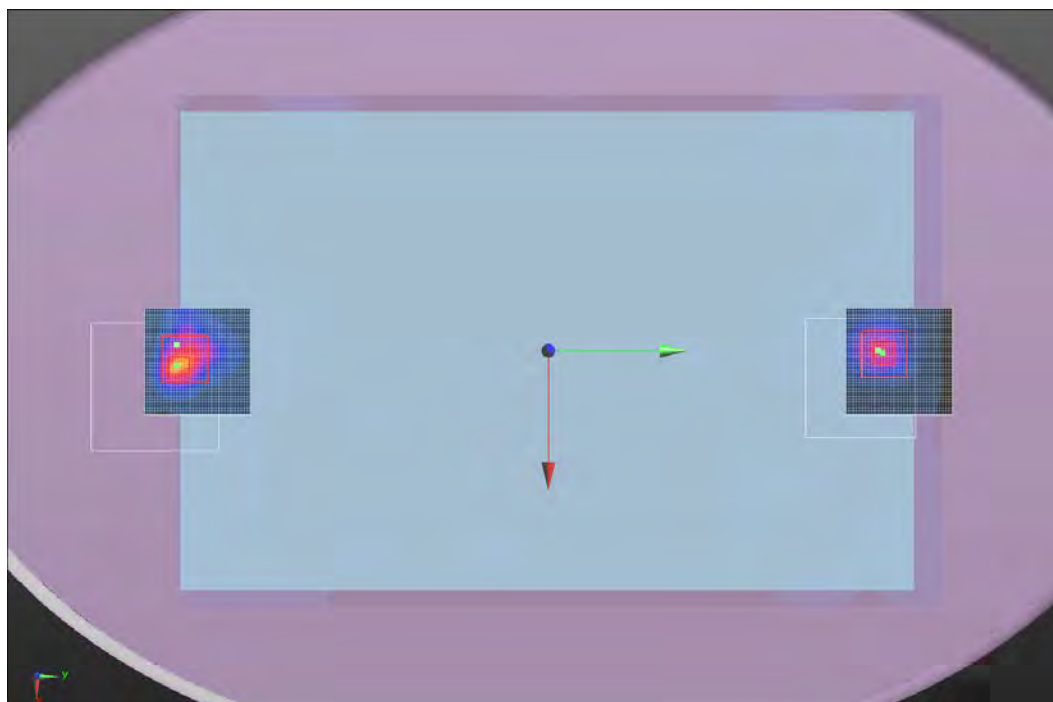
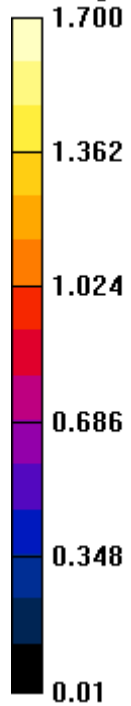
Maximum value of SAR (interpolated) = 1.17 W/kg

Maximum value of SAR (measured) = 0.145 W/kg



Approved By

Test 197
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/8/2014	Liquid Temperature (°C):	22.3
Serial Number:	010	Humidity (%RH):	43.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1022
Comments:	None		

Test 198

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5280 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5280$ MHz; $\sigma = 5.332$ S/m; $\epsilon_r = 48.741$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.534 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Zoom Scan 3 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.896 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.264 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.45 W/kg

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.710 W/kg

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.924 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.211 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.246 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm



Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 1.24 W/kg

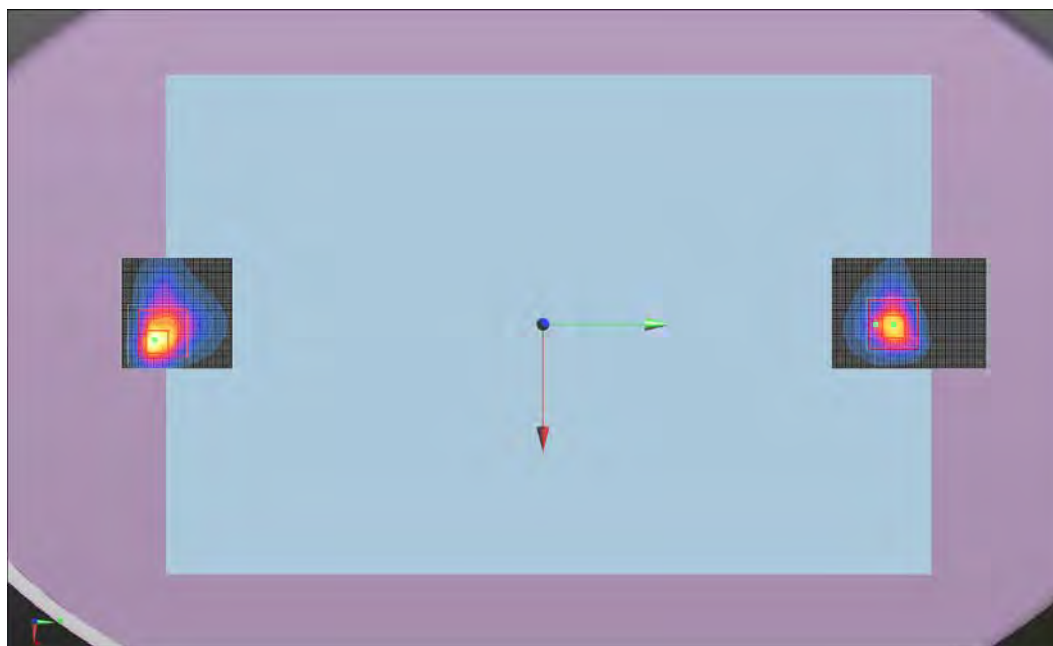
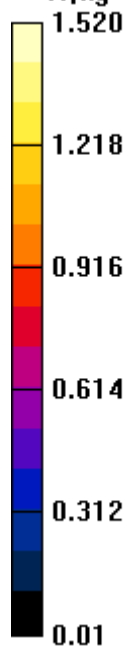
Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.710 W/kg

 
Approved By

Test 198
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.2
Date:	4/8/2014	Liquid Temperature (°C):	22.3
Serial Number:	010	Humidity (%RH):	43.6
Configuration:	INTE5434-1	Bar. Pressure (mb):	1022
Comments:	None		

Test 199

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5580 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5580$ MHz; $\sigma = 5.82$ S/m; $\epsilon_r = 47.642$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.153 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Zoom Scan 3 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.032 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 0.755 W/kg; SAR(10 g) = 0.283 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.602 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 3.20 W/kg

SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.267 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.56 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.422 V/m

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.940 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.61 W/kg

Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

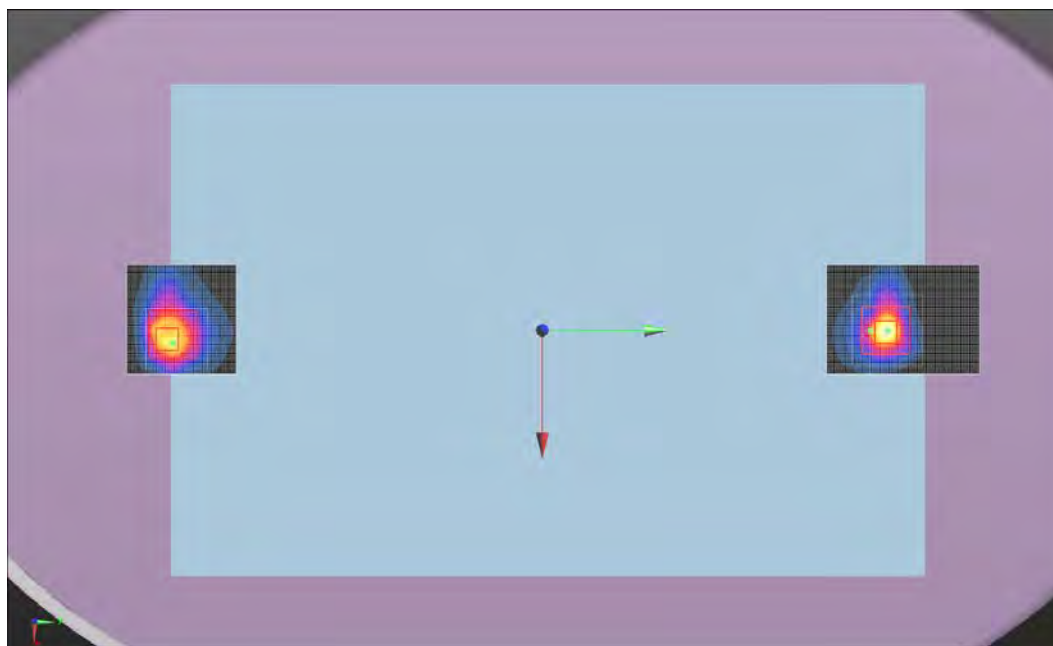
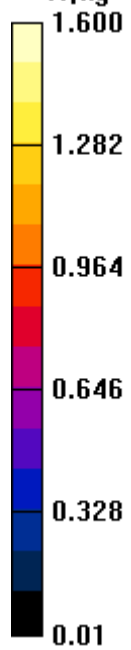
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.940 W/kg

Approved By

Test 199
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.5
Date:	4/8/2014	Liquid Temperature (°C):	22.4
Serial Number:	010	Humidity (%RH):	44.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1022
Comments:	None		

Test 200

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5785 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 6.181$ S/m; $\epsilon_r = 46.766$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.587 V/m

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.788 W/kg

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.975 W/kg

Body/Body/Zoom Scan 3 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.528 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 2.16 W/kg

SAR(1 g) = 0.526 W/kg; SAR(10 g) = 0.178 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.13 W/kg

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.233 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.97 W/kg

SAR(1 g) = 0.678 W/kg; SAR(10 g) = 0.220 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.36 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 10.37 V/m

SAR TEST DATA

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.47 W/kg

Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

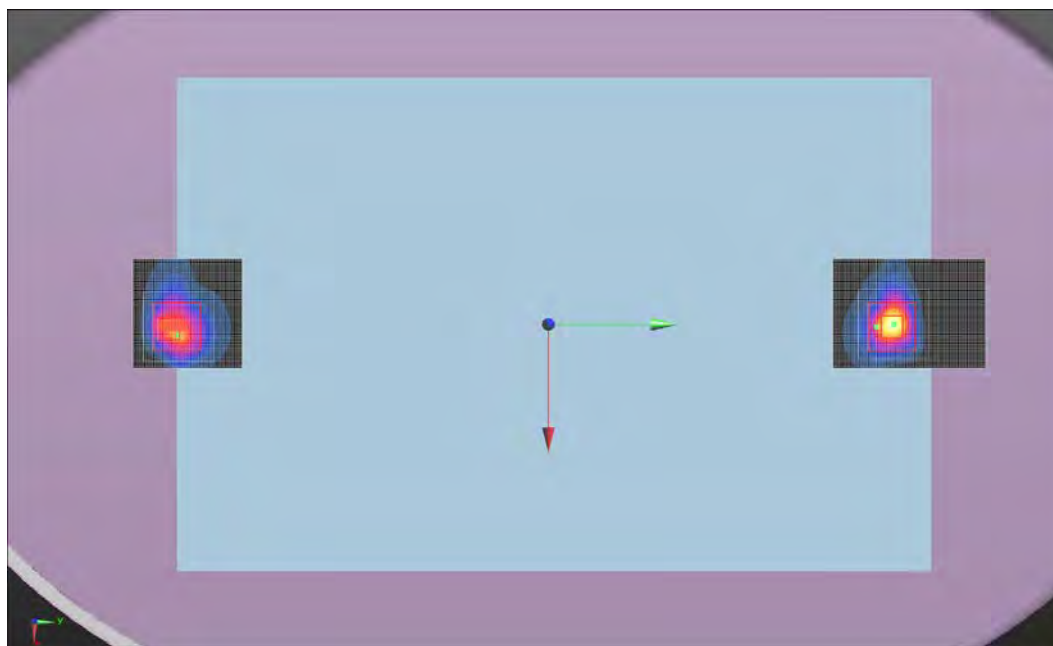
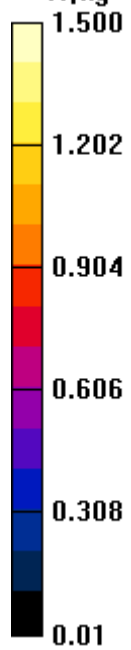
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.786 W/kg



Approved By

Test 200
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.8
Date:	4/8/2014	Liquid Temperature (°C):	23.8
Serial Number:	010	Humidity (%RH):	43
Configuration:	INTE5434-1	Bar. Pressure (mb):	1019
Comments:	None		

Test 201

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5230 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5230$ MHz; $\sigma = 5.268$ S/m; $\epsilon_r = 48.881$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.547 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.36 W/kg

Body/Body/Zoom Scan 3 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.739 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.72 W/kg

SAR(1 g) = 0.672 W/kg; SAR(10 g) = 0.242 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.40 W/kg

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.872 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.180 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.849 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.01 W/kg

Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

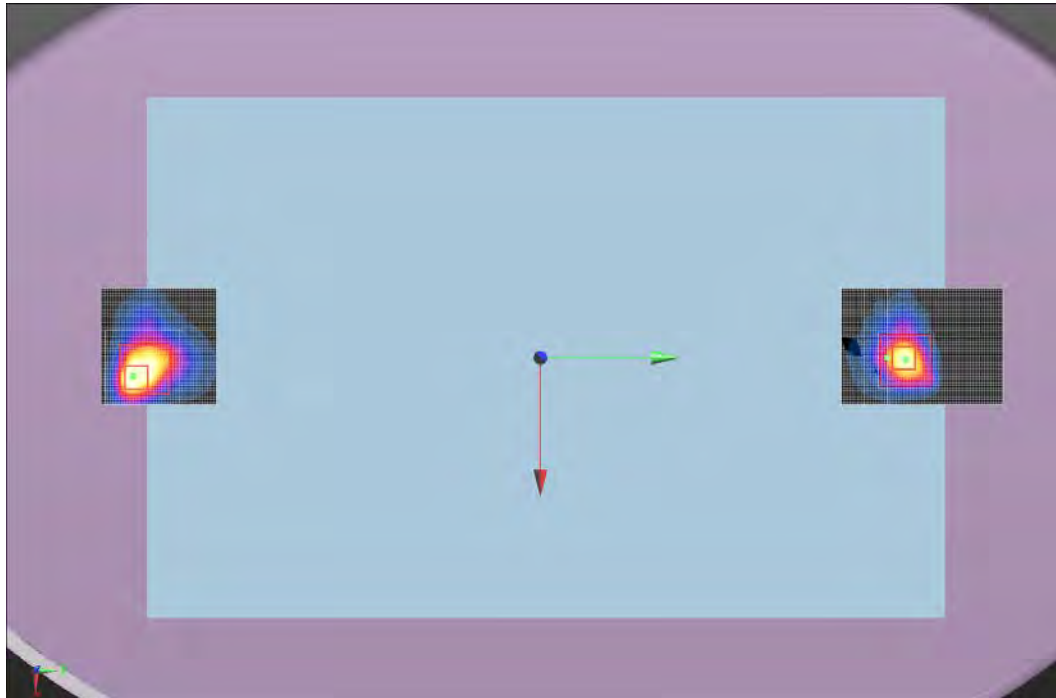
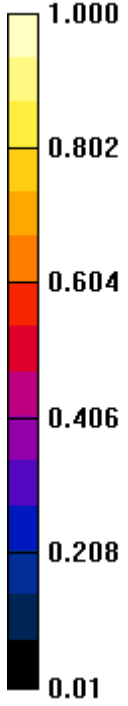
[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



Approved By

Test 201
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.8
Date:	4/8/2014	Liquid Temperature (°C):	22.4
Serial Number:	010	Humidity (%RH):	43
Configuration:	INTE5434-1	Bar. Pressure (mb):	1019
Comments:	None		

Test 202

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5270 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5270$ MHz; $\sigma = 5.319$ S/m; $\epsilon_r = 48.767$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.514 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.47 W/kg

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.667 W/kg

Body/Body/Zoom Scan 3 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.928 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.249 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.45 W/kg

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.526 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.189 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.14 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.237 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

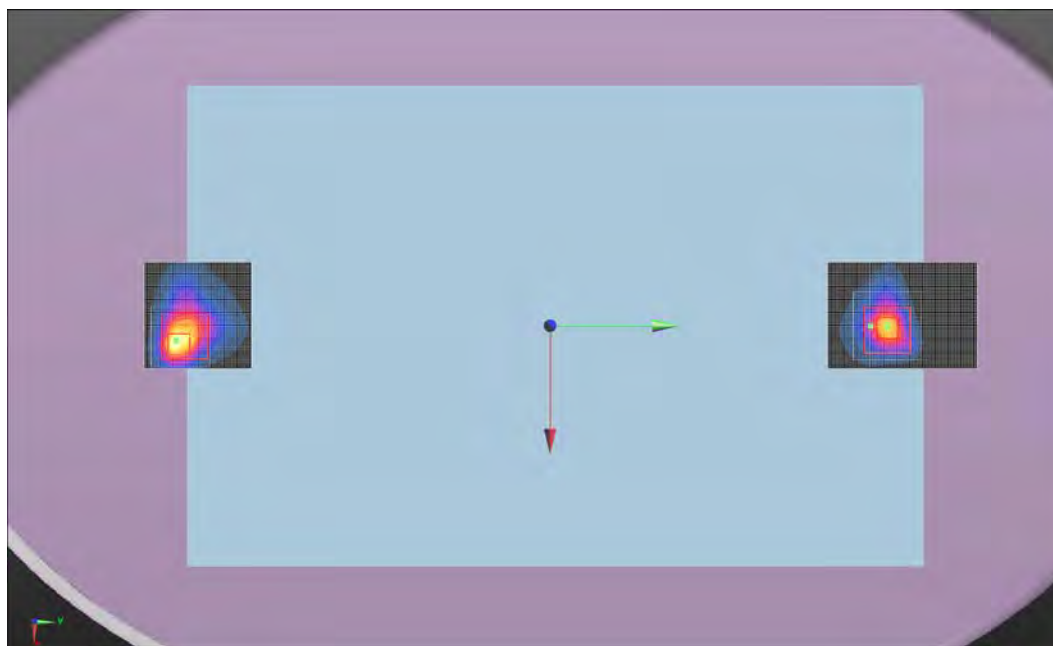
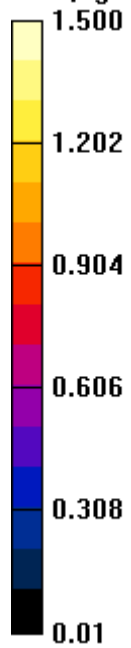
Maximum value of SAR (interpolated) = 1.17 W/kg

Maximum value of SAR (measured) = 0.300 W/kg



Approved By

Test 202
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.6
Date:	4/8/2014	Liquid Temperature (°C):	22.1
Serial Number:	010	Humidity (%RH):	44
Configuration:	INTE5434-1	Bar. Pressure (mb):	1019
Comments:	None		

Test 203

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5550 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5550$ MHz; $\sigma = 5.772$ S/m; $\epsilon_r = 47.745$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 6.389 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Body/Body/Zoom Scan 3 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.655 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.228 W/kg

Maximum value of SAR (measured) = 1.15 W/kg

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.850 W/kg

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.637 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 1.29 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 6.915 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

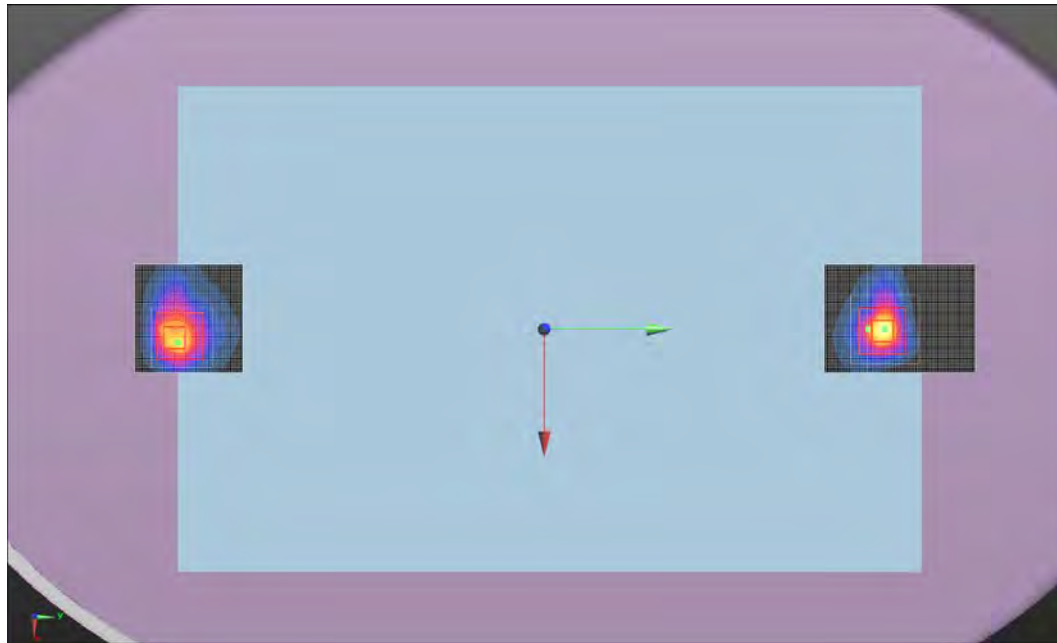
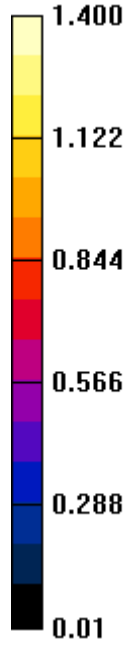
Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.850 W/kg



Approved By

Test 203
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.9
Date:	4/8/2014	Liquid Temperature (°C):	22.1
Serial Number:	010	Humidity (%RH):	48
Configuration:	INTE5434-1	Bar. Pressure (mb):	1019
Comments:	None		

Test 204

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5795 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5795$ MHz; $\sigma = 6.204$ S/m; $\epsilon_r = 46.722$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.274 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.882 W/kg

Body/Body/Zoom Scan 3 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.753 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.31 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.165 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.991 W/kg

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.692 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.179 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.25 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.160 V/m

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.749 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

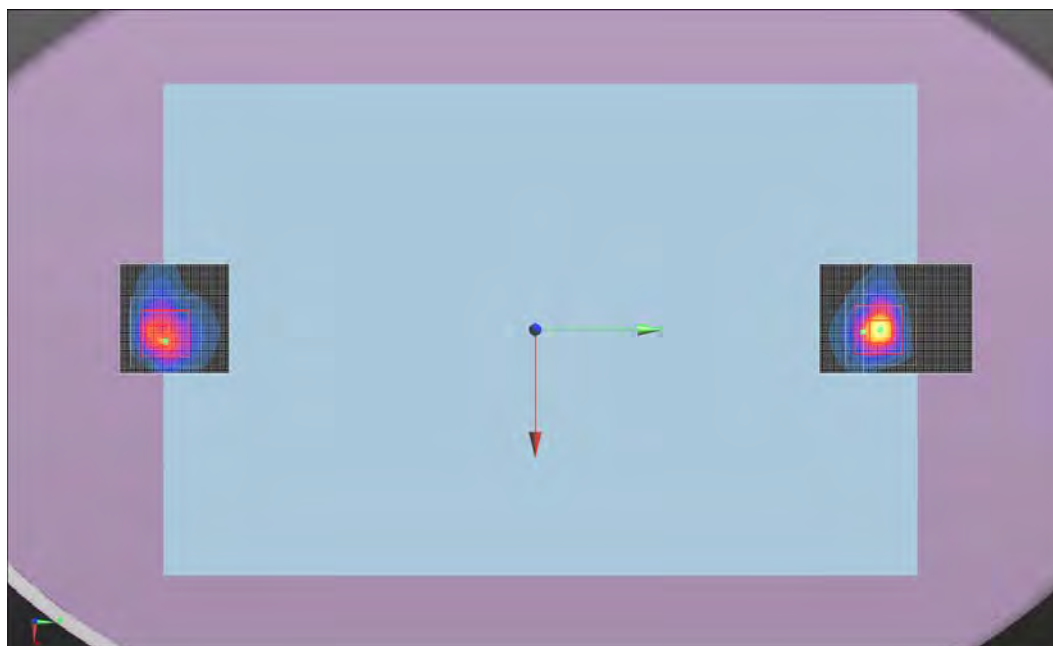
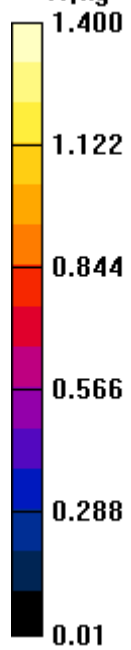
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.748 W/kg



Approved By

Test 204
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.4
Date:	4/8/2014	Liquid Temperature (°C):	22.1
Serial Number:	010	Humidity (%RH):	46
Configuration:	INTE5434-1	Bar. Pressure (mb):	1019
Comments:	None		

Test 205a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5210 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5210$ MHz; $\sigma = 5.246$ S/m; $\epsilon_r = 48.941$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 4.106 V/m

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.312 W/kg

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.386 W/kg

Body/Body/Zoom Scan 3 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.947 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.175 W/kg; SAR(10 g) = 0.059 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.362 W/kg

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.063 V/m; Power Drift = -0.40 dB

Peak SAR (extrapolated) = 0.550 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.059 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.360 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 4.367 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

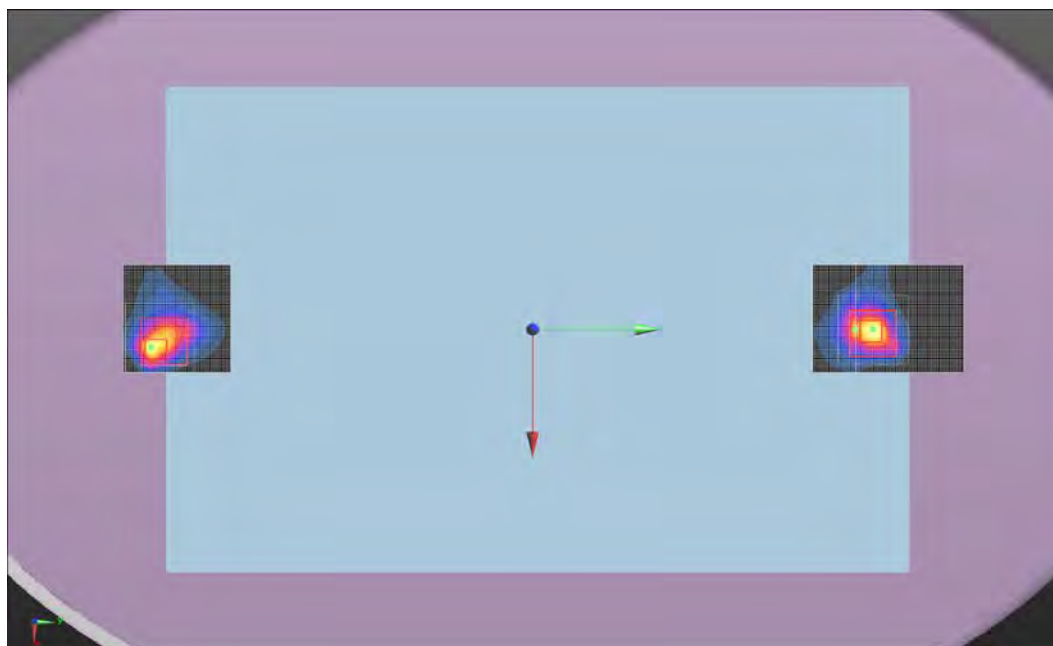
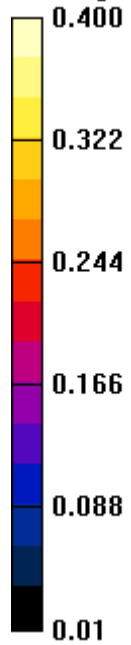
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.312 W/kg



Approved By

Test 205a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.4
Date:	4/8/2014	Liquid Temperature (°C):	22.2
Serial Number:	010	Humidity (%RH):	46
Configuration:	INTE5434-1	Bar. Pressure (mb):	1019
Comments:	None		

Test 206

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5290 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³, Medium parameters used (interpolated): $f = 5290$ MHz; $\sigma = 5.346$ S/m; $\epsilon_r = 48.714$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.811 V/m

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.389 W/kg

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.837 W/kg

Body/Body/Zoom Scan 3 (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.708 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.170 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.863 W/kg

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.876 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.150 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.905 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 6.300 V/m

Body/Body/Area scan 4 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.386 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.888 W/kg

Body/Body/Area scan 4 (6x3x1): Measurement grid: dx=10mm, dy=10mm

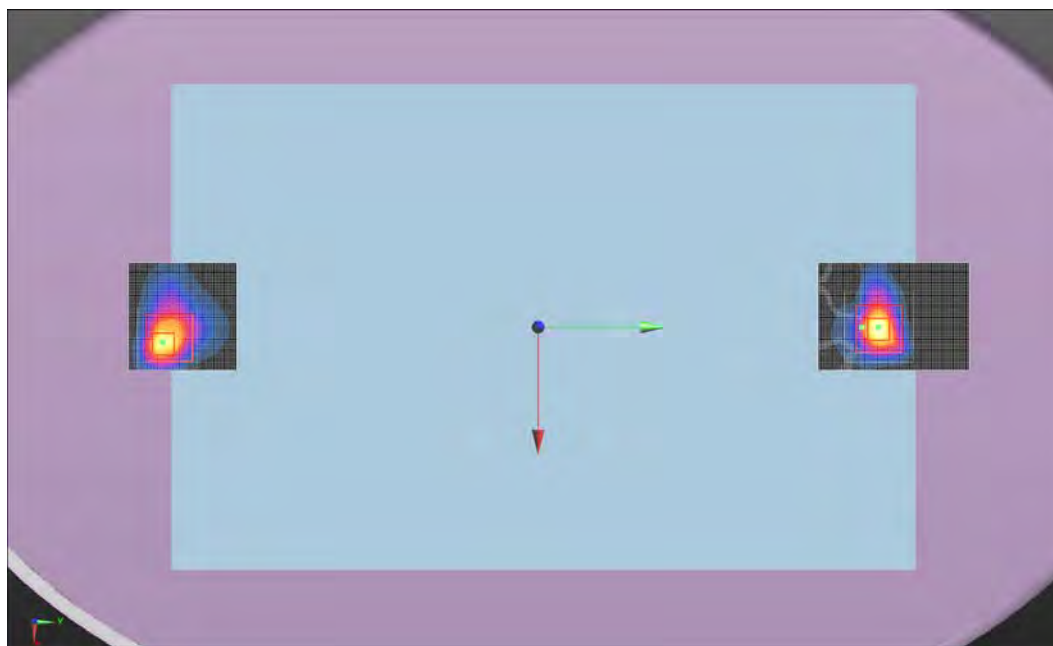
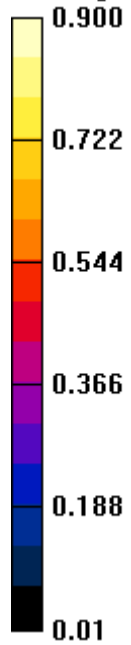
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.386 W/kg



Approved By

Test 206
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.5
Date:	4/9/2014	Liquid Temperature (°C):	21.8
Serial Number:	010	Humidity (%RH):	38.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	None		

Test 207

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5530 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5530$ MHz; $\sigma = 5.738$ S/m; $\epsilon_r = 47.831$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.309 W/kg

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 4.313 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Zoom Scan 3 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.264 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.925 W/kg

SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.088 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.463 W/kg

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.033 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.096 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.537 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 4.687 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.597 W/kg

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

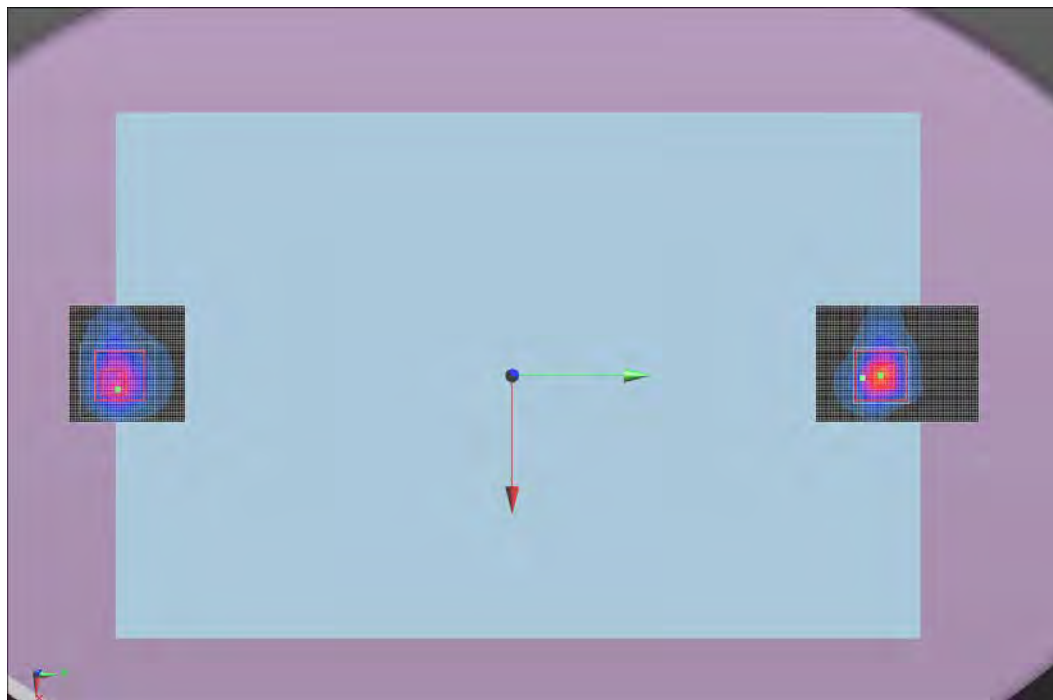
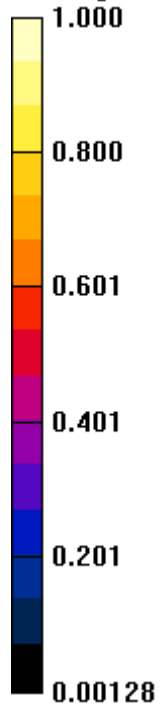
Reference Value = 9.033 V/m; Power Drift = -0.37 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Approved By

Test 207
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.5
Date:	4/9/2014	Liquid Temperature (°C):	21.8
Serial Number:	010	Humidity (%RH):	38.9
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	None		

Test 208

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5775 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5775$ MHz; $\sigma = 6.159$ S/m; $\epsilon_r = 46.81$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Area scan 3 (51x21x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.827 W/kg

Body/Body/Z Scan 2 (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 5.649 V/m

Body/Body/Area scan 2 (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.04 W/kg

Body/Body/Zoom Scan 3 (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.485 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 0.556 W/kg; SAR(10 g) = 0.191 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.10 W/kg

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 14.127 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.765 W/kg; SAR(10 g) = 0.241 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.56 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 7.134 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.63 W/kg

Body/Body/Area scan 3 (6x3x1): Measurement grid: dx=10mm, dy=10mm

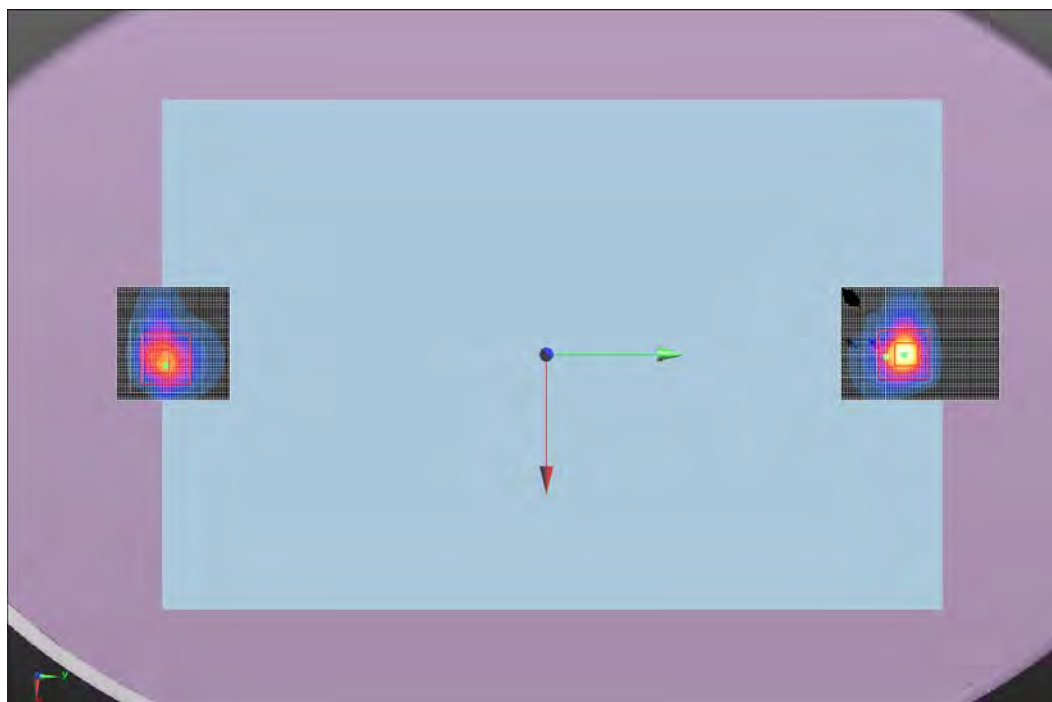
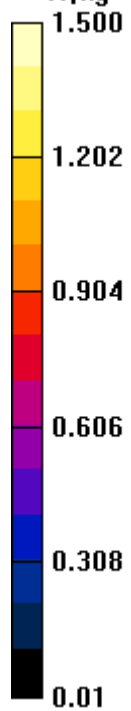
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.823 W/kg

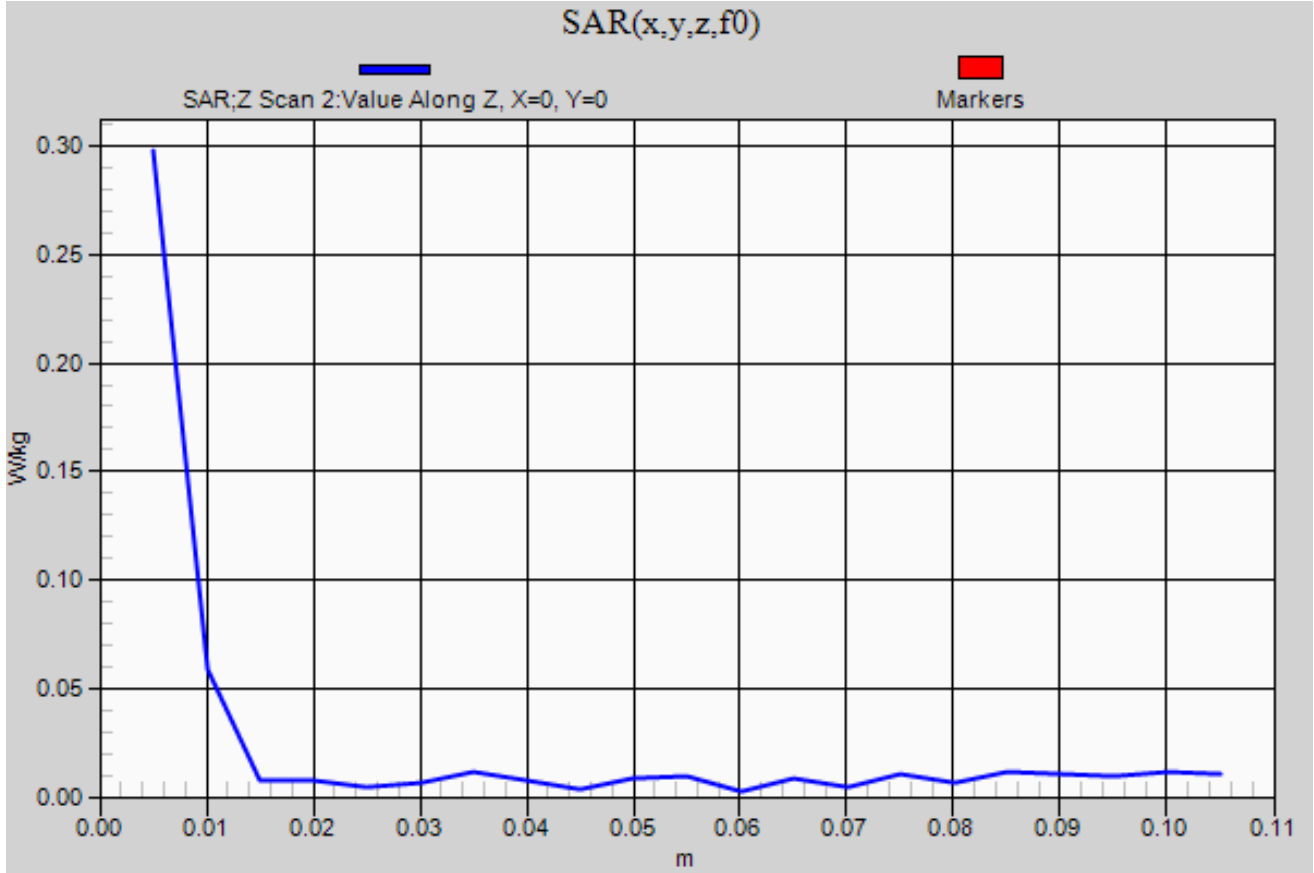


Approved By

Test 208
W/kg



Test 199 – Z Scan



EUT:	WSBUB-SDS	Work Order:	INTE5434
Customer:	Intel Corporation	Job Site:	EV08
Attendees:	Mike Lowe, Bill Jones	Customer Project:	None

TEST SPECIFICATIONS

Specification:	Method:
FCC 2.1093:2014 FCC 15.247:2014	IEEE Std 1528:2003 FCC KDB 447498 D01 v05r02 FCC KDB 248227 D01 v01r02 FCC KDB 616217 D04 v01r01 FCC 865664 D01 v01r03 and D02 v01r01

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

RESULTS

Test Configuration	Frequency Band	Transmit Frequency (MHz)	Transmit Channel	Data Rate (Mbps)	Channel Bandwidth (MHz)	Antenna Port	Mode	EUT Position	Power Drift During Test (dB)	Measured 1g SAR Level (mW/g)	Measured 10g SAR Level (mW/g)	Test #
Body	2.4	2462	11	1 Mbit	20	A	Tent	Back	0.21	1.28	0.54	4
Body	2.4	2462	11	1 Mbit	20	A	Tent	Back	-0.37	0.78	0.34	17a
Body	2.4	2462	11	1 Mbit	20	A	Tent	Back	-0.13	0.88	0.38	17b
Body	2.4	2462	11	1 Mbit	20	A	Tent	Back	-0.11	0.91	0.39	17c
Body	5.2	5240	48	6 Mbit	20	B	Tent	Back	-0.12	1.31	0.47	152d
Body	5.2	5240	48	6 Mbit	20	B	Tent	Back	-0.34	1.47	0.66	209
Body	5.2	5240	48	6 Mbit	20	B	Tent	Back	-0.13	1.44	0.64	209a
Body	5.3	5260	52	6 Mbit	20	B	Tent	Left Side	-0.06	1.41	0.37	155
Body	5.3	5260	52	6 Mbit	20	B	Tent	Left Side	-0.05	1.11	0.32	210
Body	5.6	5520	104	6 Mbit	20	A	Tent	Back	0.01	0.99	0.31	112c
Body	5.6	5520	104	6 Mbit	20	A	Tent	Back	-0.48	1.34	0.42	211
Body	5.8	5825	165	6 Mbit	20	A	Tent	Back	-0.31	1.30	0.51	116
Body	5.8	5825	165	6 Mbit	20	A	Tent	Back	0.34	1.22	0.37	212

Tested By:	Ethan Schoonover	Room Temperature (°C):	23
Date:	3/29/2014	Liquid Temperature (°C):	21.9
Serial Number:	010	Humidity (%RH):	38.7
Configuration:	INTE5434-1	Bar. Pressure (mb):	1008
Comments:	None		

Test 4

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 51.196$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

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

Reference Value = 28.566 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.28 W/kg; SAR(10 g) = 0.542 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.69 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 19.12 V/m

Body/Body/Reference scan (81x121x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

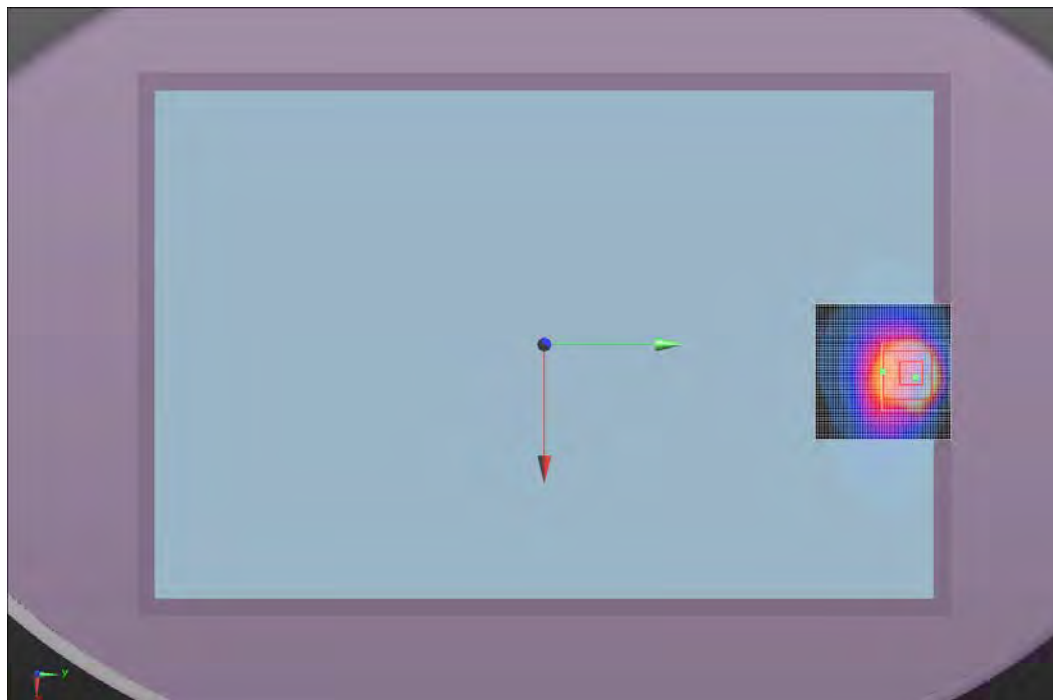
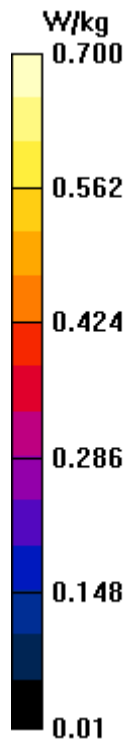
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.410 W/kg

Maximum value of SAR (measured) = 0.727 W/kg

 
Approved By

Test 4



Tested By:	Carl Engholm	Room Temperature (°C):	21.8
Date:	3/30/2014	Liquid Temperature (°C):	21.5
Serial Number:	010	Humidity (%RH):	38
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	Repeatability Measurement		

Test 17a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 51.196$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

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

Reference Value = 23.242 V/m; Power Drift = -0.37 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.337 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.03 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.15 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 14.47 V/m

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

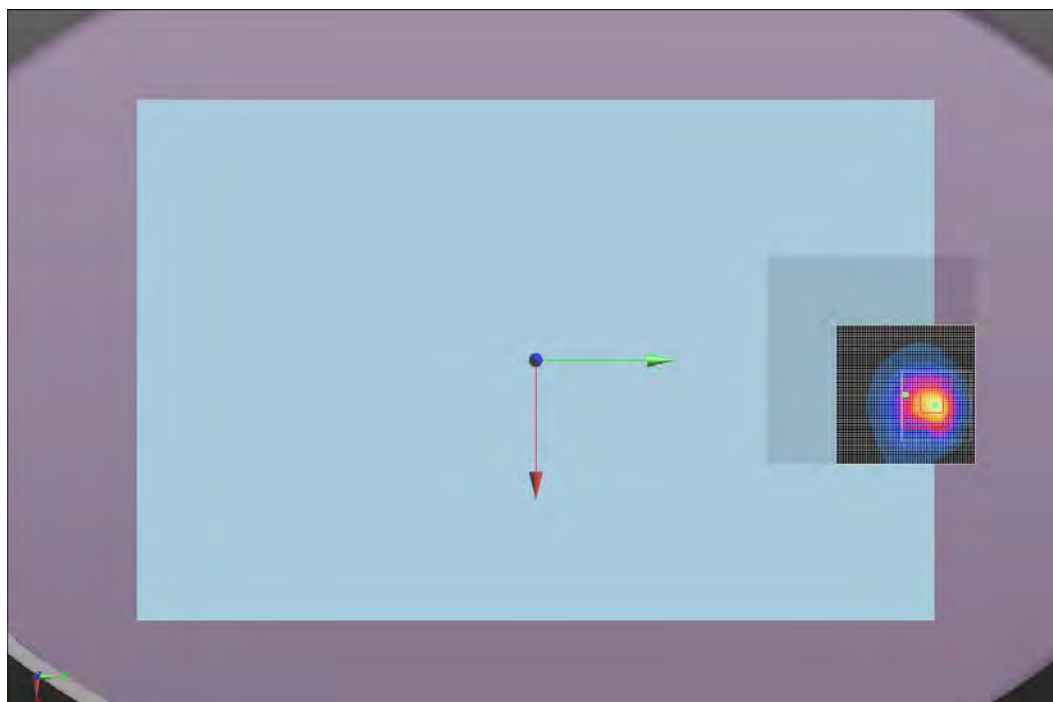
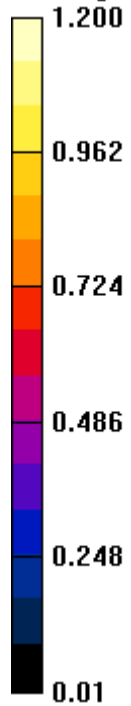
Maximum value of SAR (interpolated) = 0.470 W/kg

Maximum value of SAR (measured) = 0.417 W/kg



Approved By

Test 17a
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	21.8
Date:	3/30/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	Repeatability Measurement		

Test 17b

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 51.196$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

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

Reference Value = 24.650 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.20 W/kg

SAR(1 g) = 0.884 W/kg; SAR(10 g) = 0.380 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.45 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 16.56 V/m

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

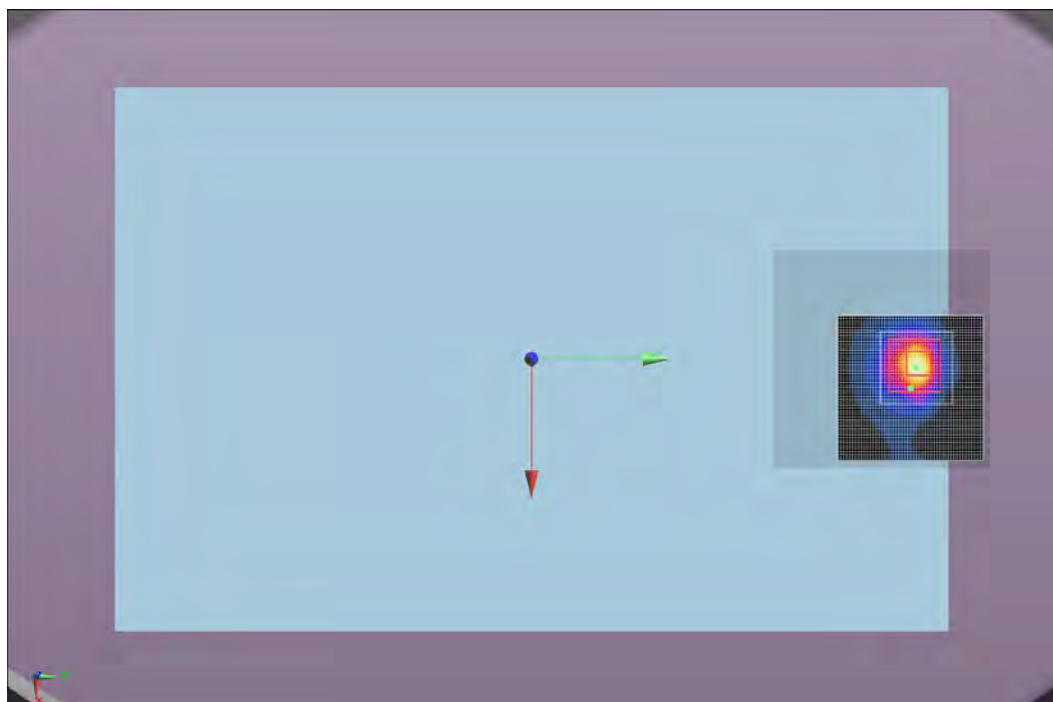
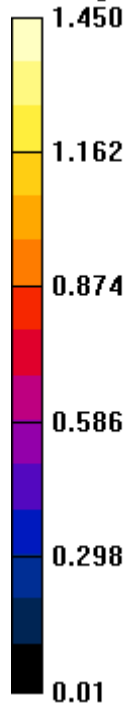
Maximum value of SAR (interpolated) = 0.558 W/kg

Maximum value of SAR (measured) = 0.546 W/kg



Approved By

Test 17b
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.2
Date:	3/30/2014	Liquid Temperature (°C):	21
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1016
Comments:	Repeatability Measurement		

Test 17c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 51.196$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

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

Reference Value = 24.693 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.25 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.393 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.19 W/kg

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 16.53 V/m

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

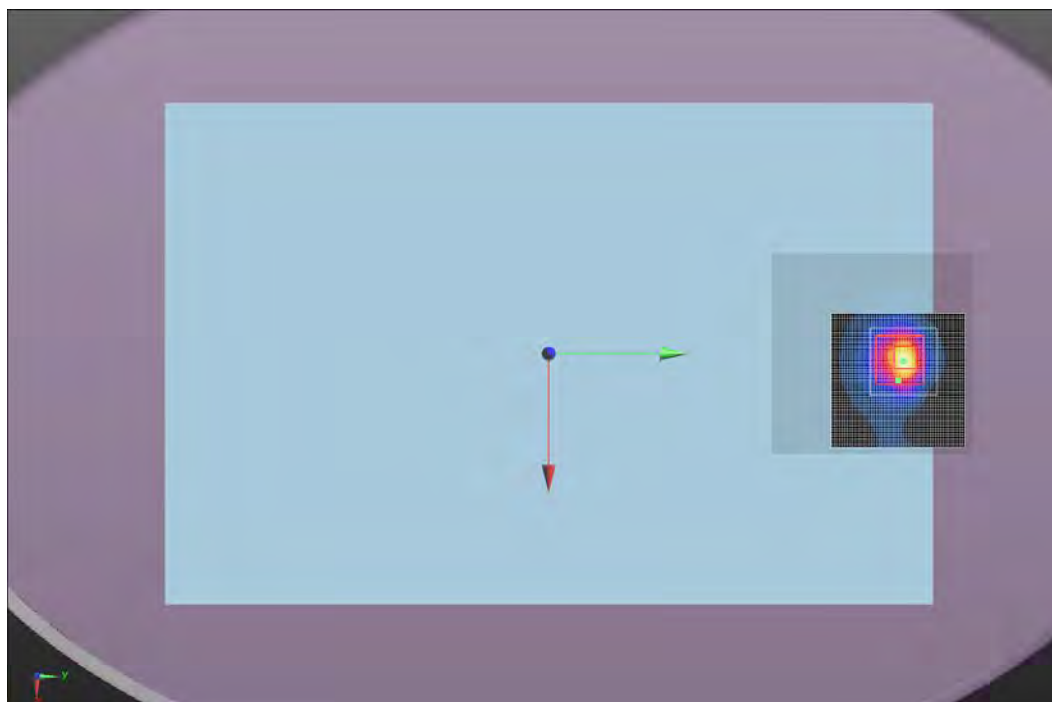
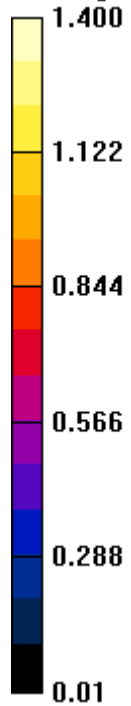
Maximum value of SAR (interpolated) = 0.559 W/kg

Maximum value of SAR (measured) = 0.544 W/kg



Approved By

Test 17c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.8
Date:	4/10/2014	Liquid Temperature (°C):	22.8
Serial Number:	010	Humidity (%RH):	34.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1025
Comments:	Power level 14.0		

Test 152d

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 17.024 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 5.38 W/kg

SAR(1 g) = 1.31 W/kg; SAR(10 g) = 0.470 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.54 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.63 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.616 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

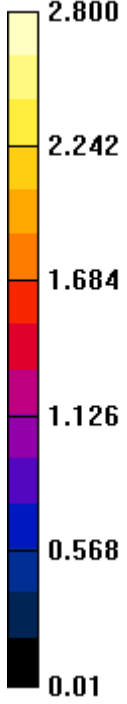
Maximum value of SAR (interpolated) = 2.48 W/kg

Maximum value of SAR (measured) = 0.392 W/kg

Approved By

Test 152d
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	22.6
Date:	4/10/2014	Liquid Temperature (°C):	20.3
Serial Number:	010	Humidity (%RH):	33
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Repeatability Measurement, Power level 14.0		

Test 209

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.883 V/m; Power Drift = -0.34 dB

Peak SAR (extrapolated) = 5.97 W/kg

SAR(1 g) = 1.47 W/kg; SAR(10 g) = 0.661 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.80 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.53 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 12.32 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

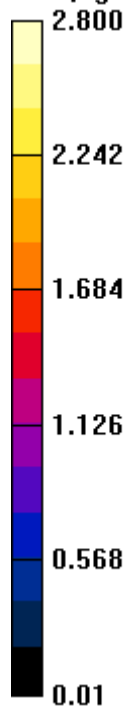
Maximum value of SAR (interpolated) = 2.74 W/kg

Maximum value of SAR (measured) = 0.802 W/kg



Approved By

Test 209
W/kg



Tested By:	Carl Engholm	Room Temperature (°C):	23.6
Date:	4/10/2014	Liquid Temperature (°C):	20.4
Serial Number:	010	Humidity (%RH):	30
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Repeatability Measurement, Power level 14.0		

Test 209a

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5240 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 5.28$ S/m; $\epsilon_r = 48.85$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.758 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 5.79 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 0.642 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.77 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.49 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of Total (measured) = 17.35 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.63 W/kg

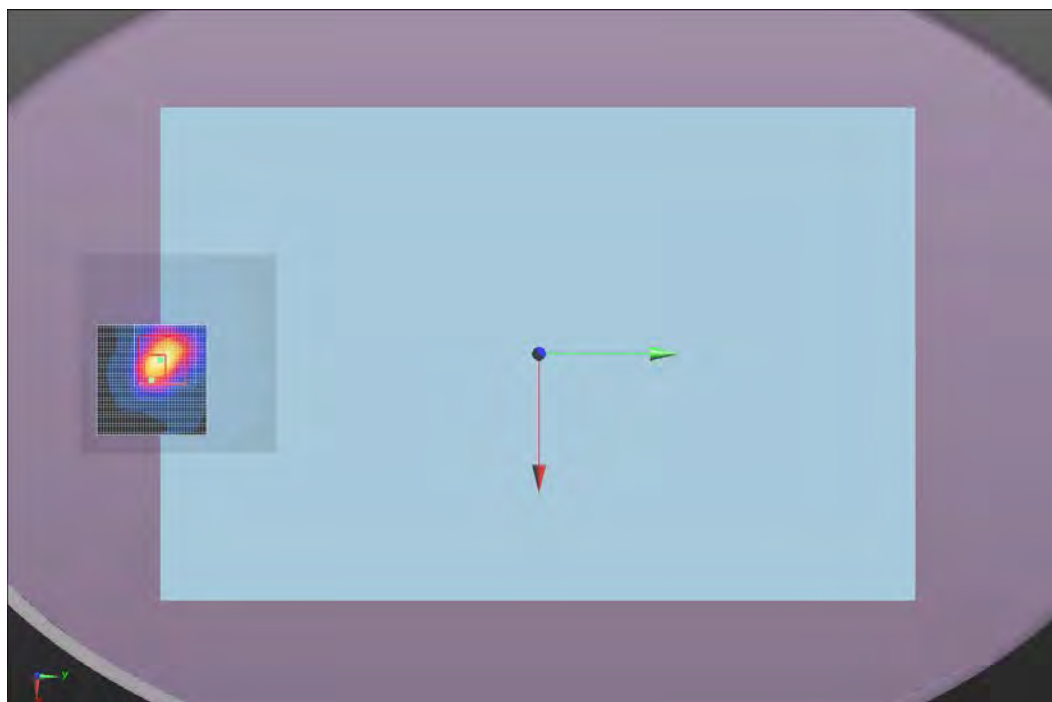
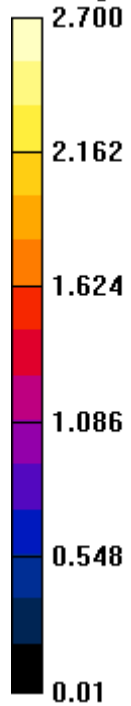
Maximum value of SAR (measured) = 1.59 W/kg



Approved By

Test 209a

W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/4/2014	Liquid Temperature (°C):	21.7
Serial Number:	010	Humidity (%RH):	36.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1015
Comments:	None		

Test 155

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.281$ S/m; $\epsilon_r = 48.783$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (10x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 21.901 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.90 W/kg

SAR(1 g) = 1.41 W/kg; SAR(10 g) = 0.368 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.20 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.427 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 11.21 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

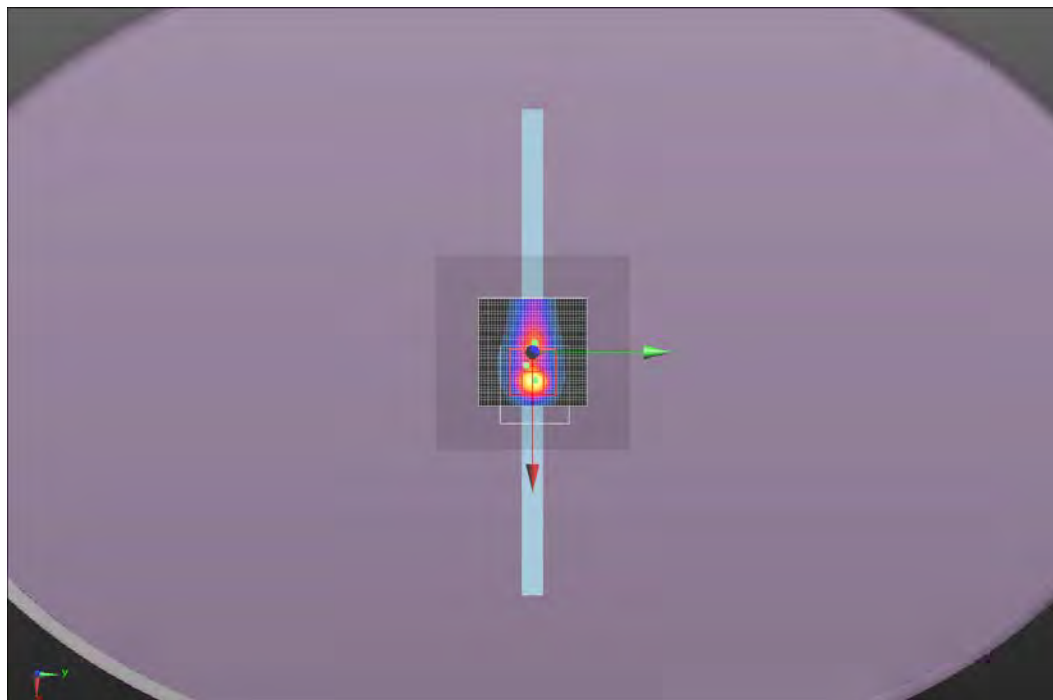
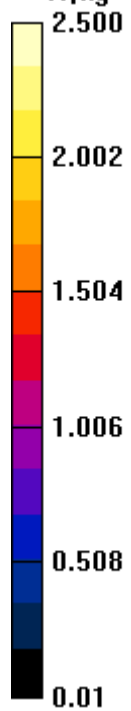
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.42 W/kg

Maximum value of SAR (measured) = 0.664 W/kg

 
Approved By

Test 155
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.7
Date:	4/11/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	31.3
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Repeatability Measurement		

Test 210

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5260 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5260$ MHz; $\sigma = 5.328$ S/m; $\epsilon_r = 49.457$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 19.329 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 4.20 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.322 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.45 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.416 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)


Maximum value of Total (measured) = 9.757 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

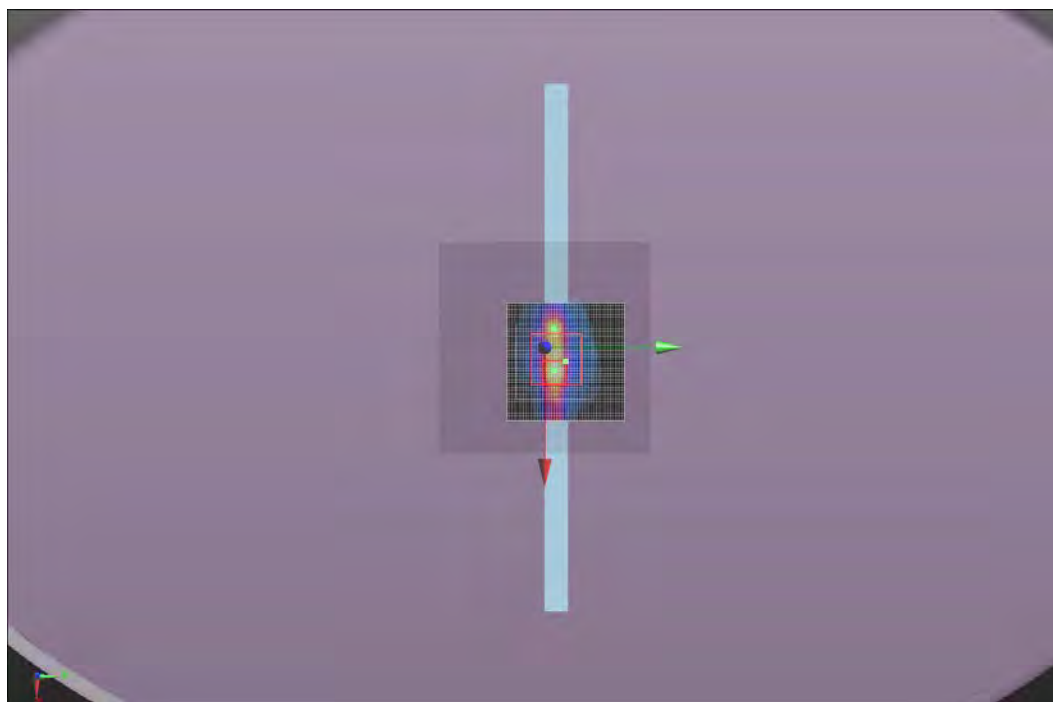
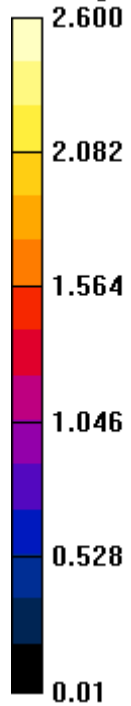
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 2.54 W/kg

Maximum value of SAR (measured) = 0.507 W/kg

 
Approved By

Test 210
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.3
Date:	4/9/2014	Liquid Temperature (°C):	23.2
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1024
Comments:	Power level 12.0		

Test 112c

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.721$ S/m; $\epsilon_r = 47.875$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.725 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.309 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.96 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.340 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

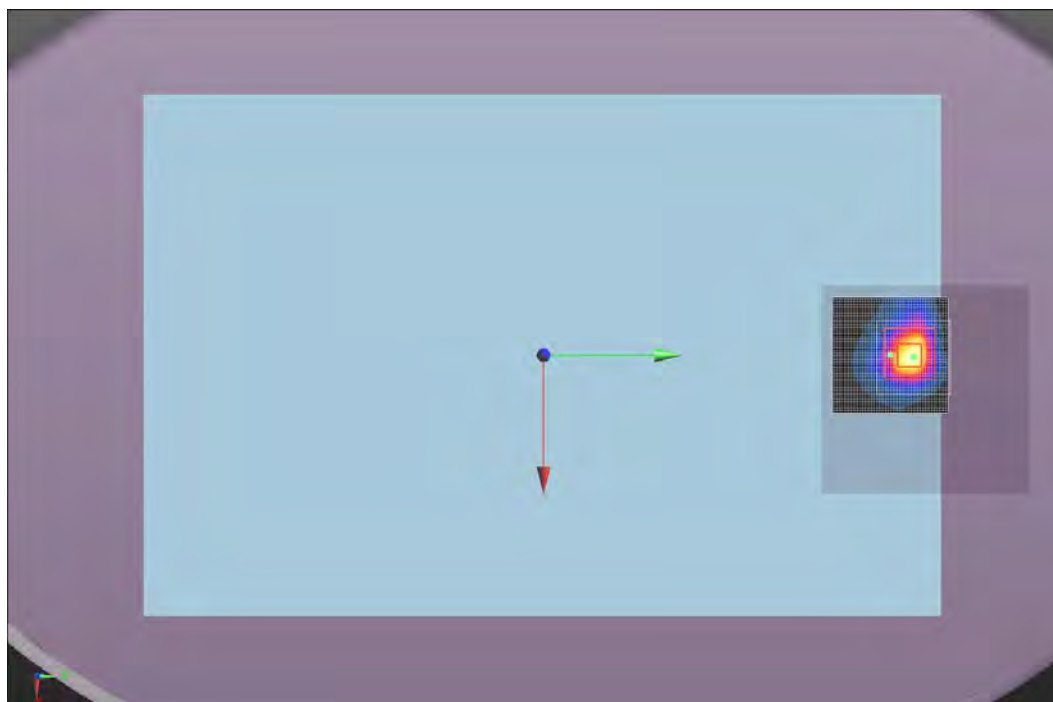
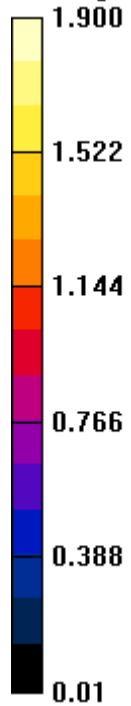
Maximum value of SAR (interpolated) = 1.87 W/kg

Maximum value of SAR (measured) = 0.398 W/kg

Approved By

Test 112c
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.8
Date:	4/11/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	31.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Repeatability Measurement, Power level 14.0		

Test 211

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 48.451$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.917 V/m; Power Drift = -0.48 dB

Peak SAR (extrapolated) = 5.99 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.418 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.58 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.683 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.466 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

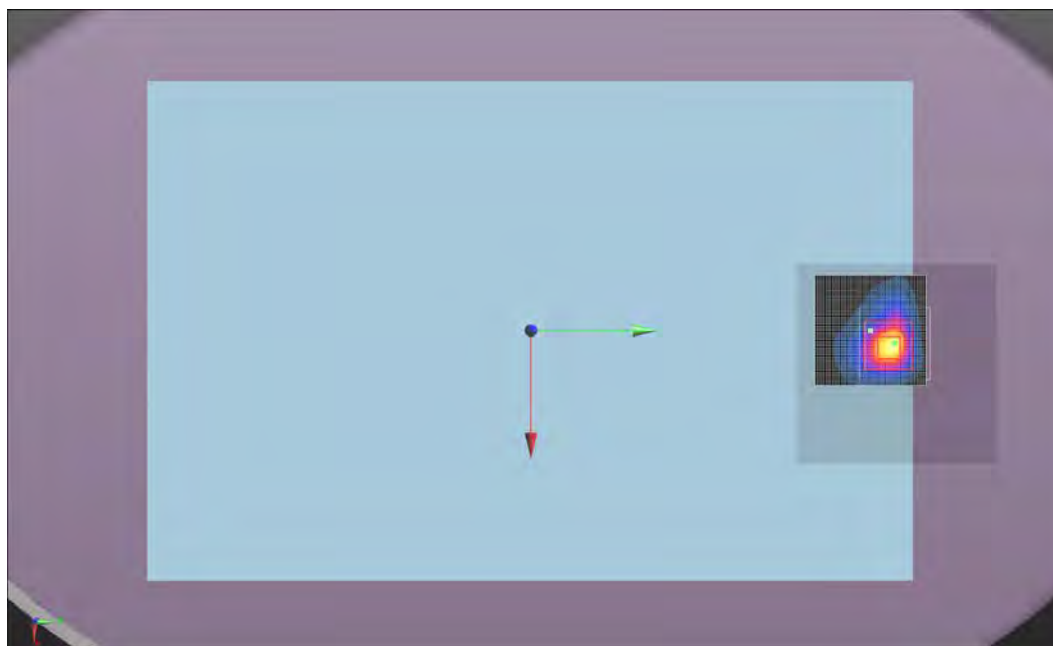
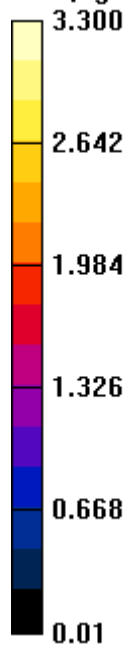
Maximum value of SAR (interpolated) = 3.03 W/kg

Maximum value of SAR (measured) = 0.413 W/kg

Approved By

Test 211
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.8
Date:	4/11/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	31.2
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Repeatability Measurement, Power level 14.0		

Test 211

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5520 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5520$ MHz; $\sigma = 5.761$ S/m; $\epsilon_r = 48.451$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.917 V/m; Power Drift = -0.48 dB

Peak SAR (extrapolated) = 5.99 W/kg

SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.418 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.58 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.683 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 8.466 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

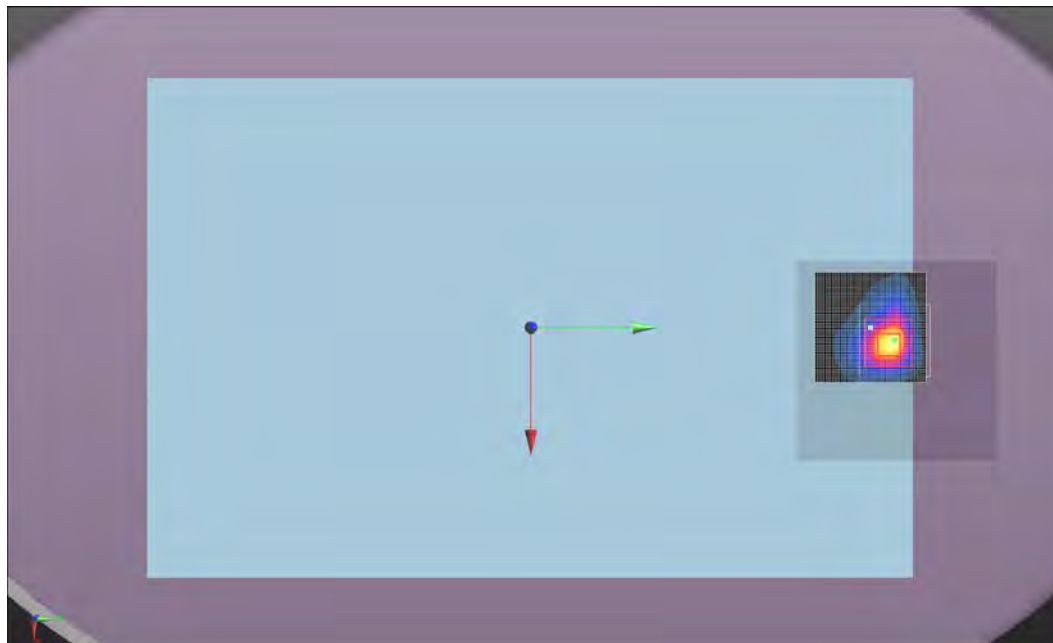
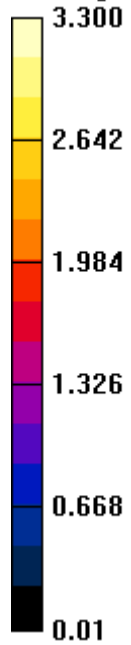
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 3.03 W/kg

Maximum value of SAR (measured) = 0.413 W/kg

 
Approved By

Test 211
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	22.6
Date:	4/1/2014	Liquid Temperature (°C):	21.3
Serial Number:	010	Humidity (%RH):	37
Configuration:	INTE5434-1	Bar. Pressure (mb):	1009
Comments:	None		

Test 116

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.27$ S/m; $\epsilon_r = 46.48$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS2 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 18.162 V/m; Power Drift = -0.31 dB

Peak SAR (extrapolated) = 5.55 W/kg

SAR(1 g) = 1.3 W/kg; SAR(10 g) = 0.507 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.45 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 1.14 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 9.631 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

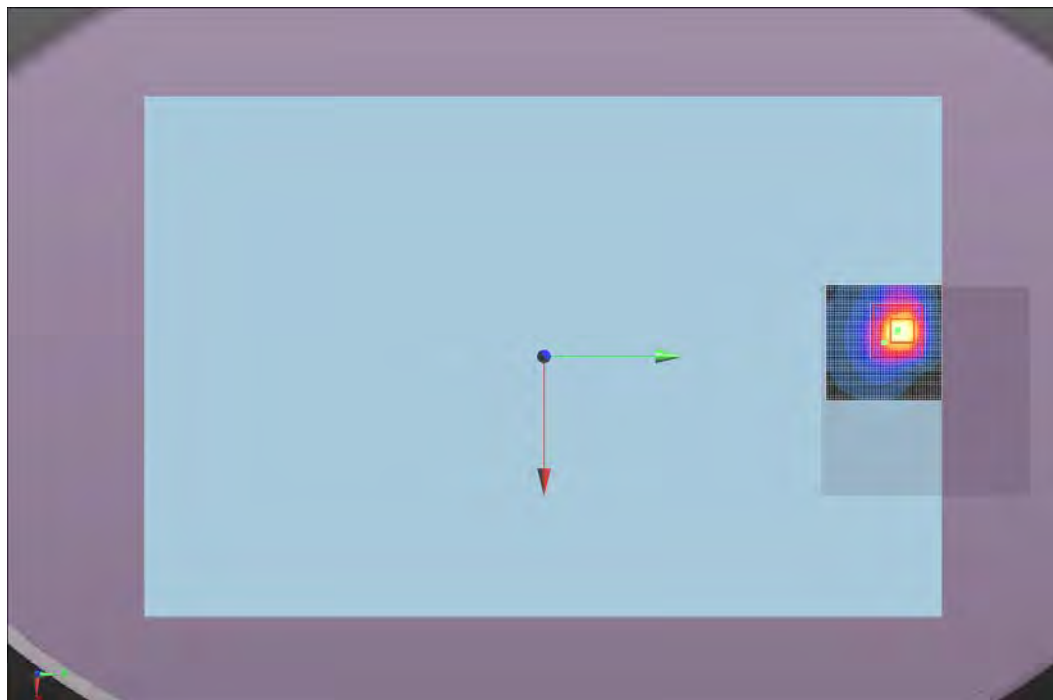
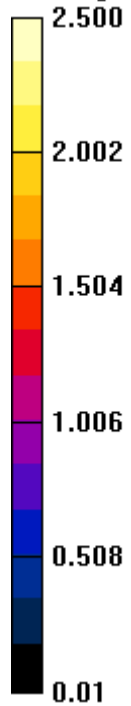
Maximum value of SAR (interpolated) = 2.50 W/kg

Maximum value of SAR (measured) = 0.582 W/kg

Approved By

Test 116
W/kg



Tested By:	Ethan Schoonover	Room Temperature (°C):	23.1
Date:	4/11/2014	Liquid Temperature (°C):	21.2
Serial Number:	010	Humidity (%RH):	31.4
Configuration:	INTE5434-1	Bar. Pressure (mb):	1021
Comments:	Repeatability Measurement		

Test 212

DUT: Tablet Computer; Type: WSBUB-SDS; Serial: 010

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 6.256$ S/m; $\epsilon_r = 47.339$; $\rho = 1000$ kg/m³, Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7164)

Body/Body/Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 16.902 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 5.84 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.373 W/kg

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.49 W/kg

Body/Body/Reference scan (31x31x1): Interpolated grid: dx=3.000 mm, dy=3.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.507 W/kg

Body/Body/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)



Maximum value of Total (measured) = 7.974 V/m

Body/Body/Area scan (51x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

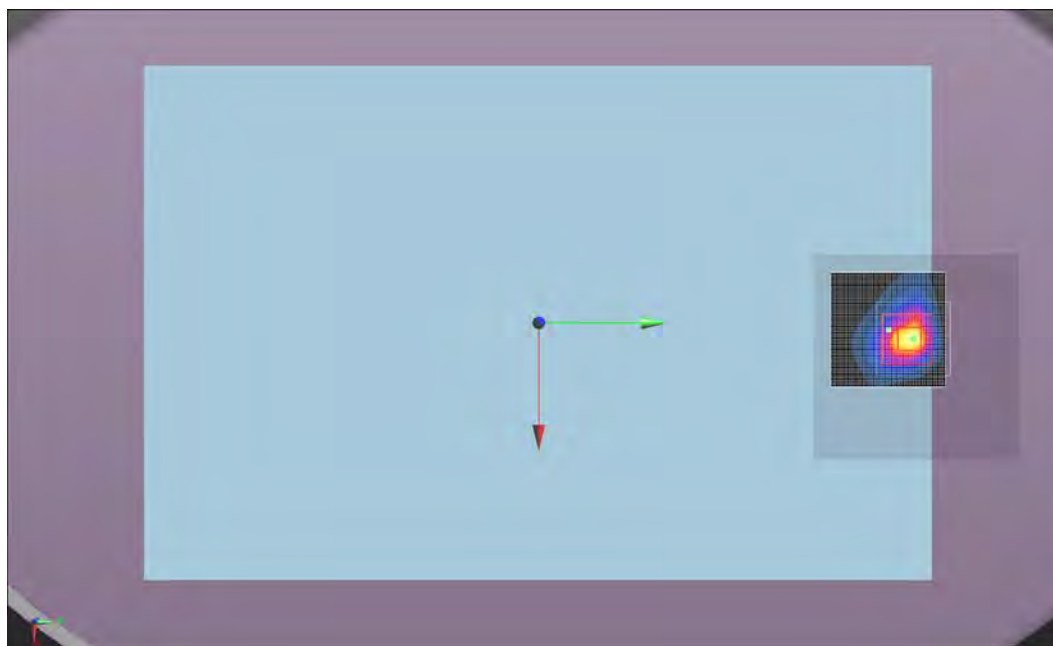
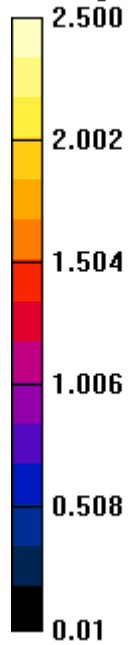
Maximum value of SAR (interpolated) = 2.40 W/kg

Maximum value of SAR (measured) = 0.398 W/kg

Approved By

Test 212
W/kg

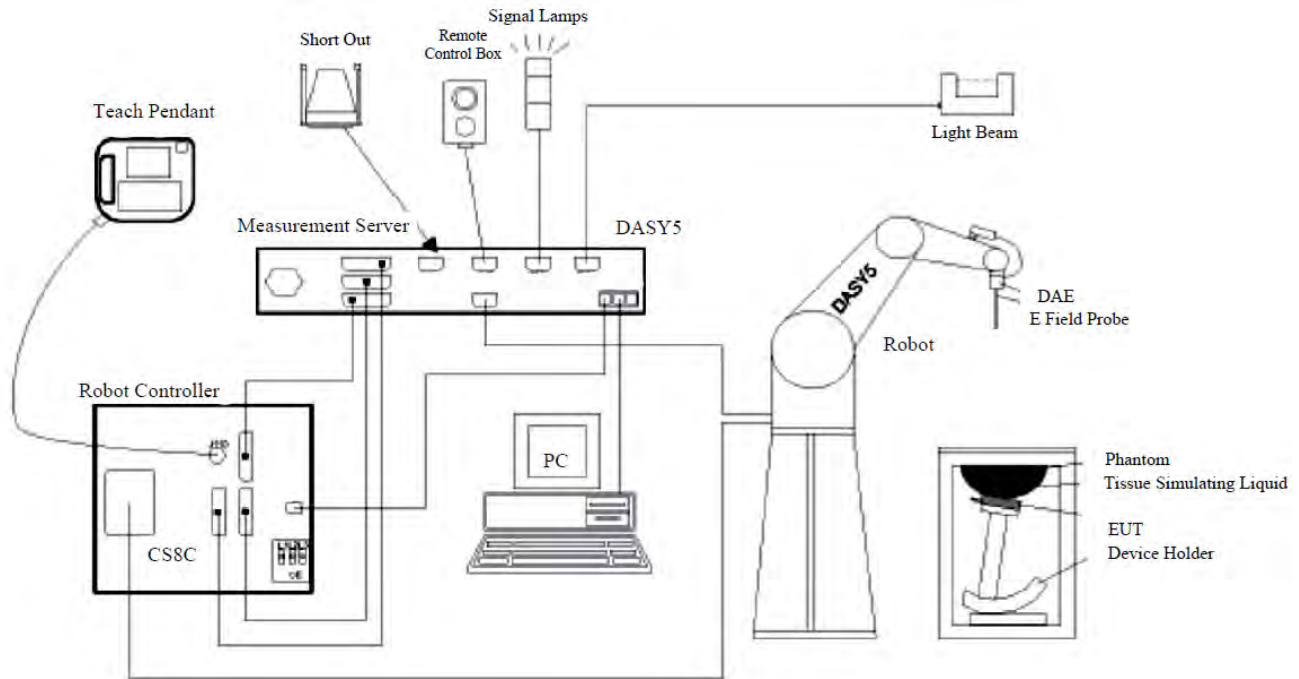


SAR MEASUREMENT SYSTEM

Schmid & Partner Engineering AG, DASY52

Northwest EMC selected the leader in SAR evaluation systems to provide the measurement tools for this evaluation. SPEAG's DASY52 is the fastest and most accurate scanner on the market. It is fully compatible with all world-wide standards for transmitters operating at the ear or within 20cm of the body. It provides full compatibility with IEC 62209-1, IEC 62209-2, IEEE 1528 as well as national adaptations such as FCC OET-65c and Korean Std. MIC #2000-93

The DASY52 system for performing compliance tests consists of the following items:



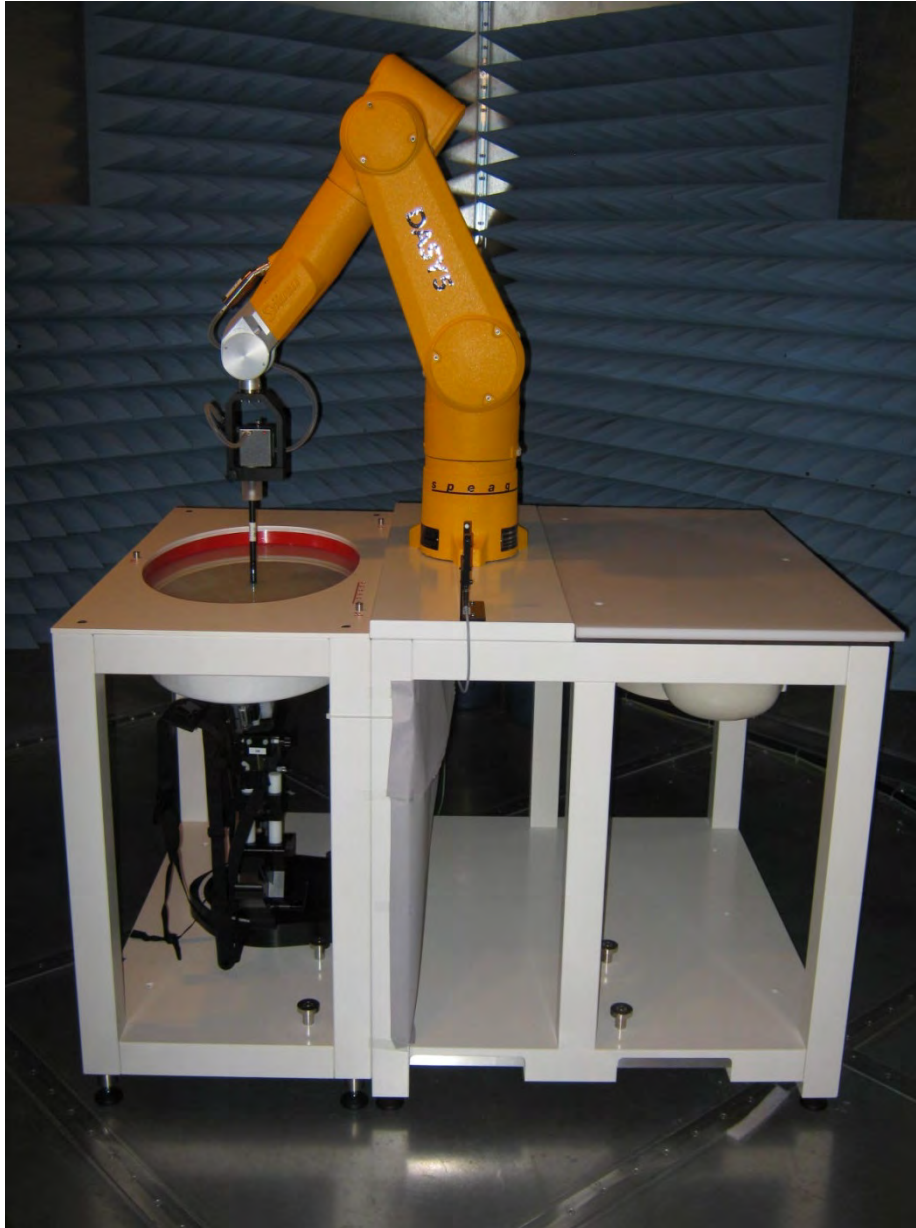
- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom, oval flat phantom, device holder, tissue simulating liquids, and validation dipole kits.

TEST SITE

Northwest EMC, Lab EV08

The SAR measurement system is located in a semi-anechoic chamber. This provides an ambient free environment that also eliminates reflections.

The chamber is 12 ft wide by 16 ft long x 8 ft high. A dedicated HVAC unit provides +/- 1 degree C temperature control.



TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Amplifier	Mini Circuits	ZVE-3W-83+	TTA	NCR ¹	0 mo
Antenna, Dipole 2450MHz SAR	SPEAG	D2450V2	ADL	11/14/2013	12 mo
Antenna, Dipole 5.1-5.8GHz SAR	SPEAG	D5GHzV2	ADM	02/25/2014	12 mo
Body Solution	SPEAG	MSL 2450	SAM	At start of testing	
Body Solution	SPEAG	MSL 501	SAV	At start of testing	
DAE	SPEAG	SD 000 D04 EJ	SAH	11/13/2013	12 mo
DASY5 Measurement Server	Staeubli	DAYS5	SAK	11/01/2013	36 mo
Device Holder	SPEAG	N/A	SAW	NCR	0 mo
Dielectric Probe Kit	Agilent	85070E	IPP	NCR	0 mo
Humidity Temperature Meter	Omega	HH311	DUI	02/19/2013	36 mo
Light Beam Unit	SPEAG	SE UKS 030 AA	SAD	NCR	0 mo
Network Analyzer	Hewlett Packard	N5230A	NAD	05/20/2013	12 mo
Phantom, 2mm Oval ELI4 (Body)	SPEAG	QD OVA 001 BB	SAC	NCR	0 mo
Power Meter	Agilent	N1913A	SQR	04/29/2013	36 mo
Power Sensor	Agilent	E9300H	SQO	04/29/2013	36 mo
RF Vector Signal Generator with associated cables and attenuators	Agilent	V2920A	TIH	NCR ¹	0 mo
Robot Arm	Staeubli	TX60LSPEAG	SAA	NCR	0 mo
Robot Chasis and power Supply	Staeubli	N/A	SAJ	NCR	0 mo
Robot Controller	Staeubli	CS8C	SAI	NCR	0 mo
SAR Probe	SPEAG	EX3DV4	SAG	11/15/2013	12 mo

Note 1: The output of the signal generator / amplifier is verified with the calibrated power meter listed above.

MEASUREMENT UNCERTAINTY BUDGETS PER IEEE 1528:2003

300-3000 MHz Range								
Uncertainty Component	Tolerance (+/- %)	Probability Distribution	Divisor	c_i (1g)	c_i (10g)	u_i (1g) (+/-%)	u_i (10g) (+/-%)	v_i
Measurement System								
Probe calibration (k=1)	5.5	normal	1	1	1	5.5	5.5	∞
Axial isotropy	4.7	rectangular	1.732	0.707	0.707	1.9	1.9	∞
Hemispherical isotropy	9.6	rectangular	1.732	0.707	0.707	3.9	3.9	∞
Boundary effect	1.0	rectangular	1.732	1	1	0.6	0.6	∞
Linearity	4.7	rectangular	1.732	1	1	2.7	2.7	∞
System detection limits	1.0	rectangular	1.732	1	1	0.6	0.6	∞
Readout electronics	0.3	normal	1	1	1	0.3	0.3	∞
Response time	0.8	rectangular	1.732	1	1	0.5	0.5	∞
Integration time	2.6	rectangular	1.732	1	1	1.5	1.5	∞
RF ambient conditions - noise	1.7	rectangular	1.732	1	1	1.0	1.0	∞
RF Ambient Reflections	0.0	rectangular	1.732	1	1	0.0	0.0	∞
Probe positioner mechanical tolerance	0.4	rectangular	1.732	1	1	0.2	0.2	∞
Probe positioner with respect to phantom shell	2.9	rectangular	1.732	1	1	1.7	1.7	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	1.0	rectangular	1.732	1	1	0.6	0.6	∞
Test Sample Related								
Device Positioning	2.9	normal	1	1	1	2.9	2.9	145
Device Holder	3.6	normal	1	1	1	3.6	3.6	5
Power Drift	5.0	rectangular	1.732	1	1	2.9	2.9	∞
Phantom and tissue parameters								
Phantom Uncertainty - shell thickness tolerances	4.0	rectangular	1.732	1	1	2.3	2.3	∞
Liquid conductivity - deviation from target values	5.0	rectangular	1.732	0.64	0.43	1.8	1.2	∞
Liquid conductivity - measurement uncertainty	6.5	normal	1	0.64	0.43	4.2	2.8	∞
Liquid permittivity - deviation from target values	5.0	rectangular	1.732	0.6	0.49	1.7	1.4	∞
Liquid permittivity - measurement uncertainty	3.2	normal	1	0.6	0.49	1.9	1.6	∞
Combined Standard Uncertainty	RSS					11.2	10.6	387
Expanded Measurement Uncertainty (95% Confidence/	normal (k=2)					22.5	21.2	

MEASUREMENT UNCERTAINTY BUDGETS PER IEEE 1528:2003

3000-6000 MHz Range								
Uncertainty Component	Tolerance (+/- %)	Probability Distribution	Divisor	c_i (1g)	c_i (10g)	u_i (1g) (+/-%)	u_i (10g) (+/-%)	v_i
Measurement System								
Probe calibration (k=1)	6.55	normal	1	1	1	6.6	6.6	∞
Axial isotropy	4.7	rectangular	1.732	0.707	0.707	1.9	1.9	∞
Hemispherical isotropy	9.6	rectangular	1.732	0.707	0.707	3.9	3.9	∞
Boundary effect	2.0	rectangular	1.732	1	1	1.2	1.2	∞
Linearity	4.7	rectangular	1.732	1	1	2.7	2.7	∞
System detection limits	1.0	rectangular	1.732	1	1	0.6	0.6	∞
Readout electronics	0.3	normal	1	1	1	0.3	0.3	∞
Response time	0.8	rectangular	1.732	1	1	0.5	0.5	∞
Integration time	2.6	rectangular	1.732	1	1	1.5	1.5	∞
RF ambient conditions - noise	1.7	rectangular	1.732	1	1	1.0	1.0	∞
RF Ambient Reflections	0.0	rectangular	1.732	1	1	0.0	0.0	∞
Probe positioner mechanical tolerance	0.8	rectangular	1.732	1	1	0.5	0.5	∞
Probe positioner with respect to phantom shell	9.9	rectangular	1.732	1	1	5.7	5.7	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	4.0	rectangular	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	2.9	normal	1	1	1	2.9	2.9	145
Device Holder	3.6	normal	1	1	1	3.6	3.6	5
Power Drift	5.0	rectangular	1.732	1	1	2.9	2.9	∞
Phantom and tissue parameters								
Phantom Uncertainty - shell thickness tolerances	4.0	rectangular	1.732	1	1	2.3	2.3	∞
Liquid conductivity - deviation from target values	5.0	rectangular	1.732	0.64	0.43	1.8	1.2	∞
Liquid conductivity - measurement uncertainty	6.5	normal	1	0.64	0.43	4.2	2.8	∞
Liquid permittivity - deviation from target values	5.0	rectangular	1.732	0.6	0.49	1.7	1.4	∞
Liquid permittivity - measurement uncertainty	3.2	normal	1	0.6	0.49	1.9	1.6	∞
Combined Standard Uncertainty	RSS					13.2	12.7	330
Expanded Measurement Uncertainty (95% Confidence/	normal (k=2)					26.5	25.4	

Probe Calibration

Please see attached calibration data.

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
Swiss Calibration Service

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Accreditation No.: **SCS 108**

Client **Northwest EMC**

Certificate No: **EX3-3746_Nov13**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3746**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6
Calibration procedure for dosimetric E-field probes**

Calibration date: **November 15, 2013**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	04-Apr-13 (No. 217-01733)	Apr-14
Power sensor E4412A	MY41498087	04-Apr-13 (No. 217-01733)	Apr-14
Reference 3 dB Attenuator	SN: S5054 (3c)	04-Apr-13 (No. 217-01737)	Apr-14
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-13 (No. 217-01735)	Apr-14
Reference 30 dB Attenuator	SN: S5129 (30b)	04-Apr-13 (No. 217-01738)	Apr-14
Reference Probe ES3DV2	SN: 3013	28-Dec-12 (No. ES3-3013_Dec12)	Dec-13
DAE4	SN: 660	4-Sep-13 (No. DAE4-660_Sep13)	Sep-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-15
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

Calibrated by:	Name Claudio Leubler	Function Laboratory Technician	Signature
Approved by:	Name Katja Pokovic	Function Technical Manager	

Issued: November 16, 2013

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Accreditation No.: **SCS 108**

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}:** Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- DCP_{x,y,z}:** DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR:** PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle:** The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

Probe EX3DV4

SN:3746

Manufactured: March 26, 2010
Calibrated: November 15, 2013

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3746

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.49	0.47	0.50	$\pm 10.1 \%$
DCP (mV) ^B	95.1	96.8	99.8	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	116.0	$\pm 2.5 \%$
		Y	0.0	0.0	1.0		114.4	
		Z	0.0	0.0	1.0		115.3	
10061- CAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	4.27	70.6	19.0	3.60	112.0	$\pm 0.7 \%$
		Y	3.46	70.3	19.5		146.7	
		Z	6.51	80.9	23.9		110.8	
10069- CAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	12.35	71.0	23.8	10.56	123.7	$\pm 3.8 \%$
		Y	10.65	68.7	22.9		104.8	
		Z	11.98	70.7	23.7		121.3	
10077- CAA	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	11.38	70.4	23.8	11.00	105.9	$\pm 3.5 \%$
		Y	10.68	71.0	24.7		131.5	
		Z	11.00	70.1	23.8		103.8	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3746

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
2450	39.2	1.80	6.74	6.74	6.74	0.49	0.93	± 12.0 %
2550	39.1	1.91	6.51	6.51	6.51	0.52	0.93	± 12.0 %
5200	36.0	4.66	4.92	4.92	4.92	0.35	1.80	± 13.1 %
5300	35.9	4.76	4.69	4.69	4.69	0.35	1.80	± 13.1 %
5500	35.6	4.96	4.60	4.60	4.60	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.30	4.30	4.30	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.37	4.37	4.37	0.40	1.80	± 13.1 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3746

Calibration Parameter Determined in Body Tissue Simulating Media

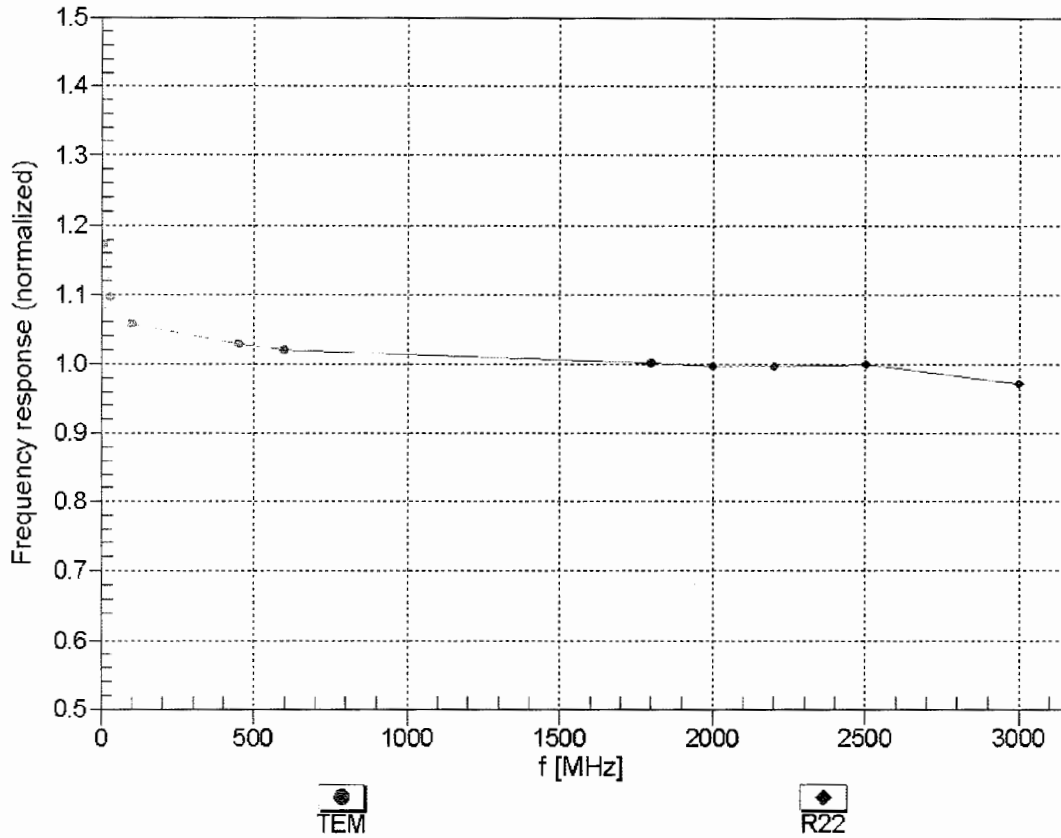
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
2450	52.7	1.95	7.03	7.03	7.03	0.80	0.57	± 12.0 %
2550	52.6	2.09	6.78	6.78	6.78	0.80	0.50	± 12.0 %
5200	49.0	5.30	4.25	4.25	4.25	0.45	1.90	± 13.1 %
5300	48.9	5.42	4.04	4.04	4.04	0.45	1.90	± 13.1 %
5500	48.6	5.65	3.95	3.95	3.95	0.45	1.90	± 13.1 %
5600	48.5	5.77	3.78	3.78	3.78	0.45	1.90	± 13.1 %
5800	48.2	6.00	4.16	4.16	4.16	0.45	1.90	± 13.1 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

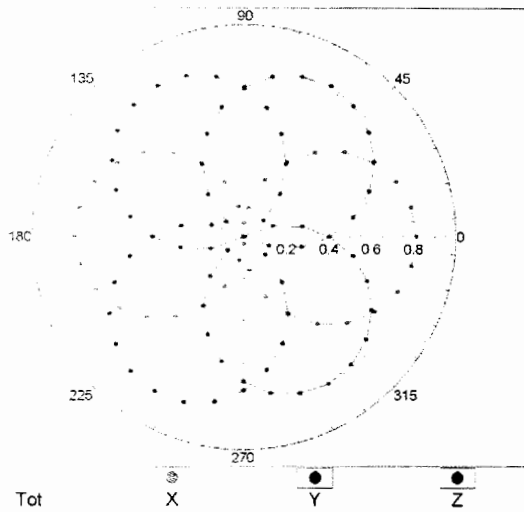
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



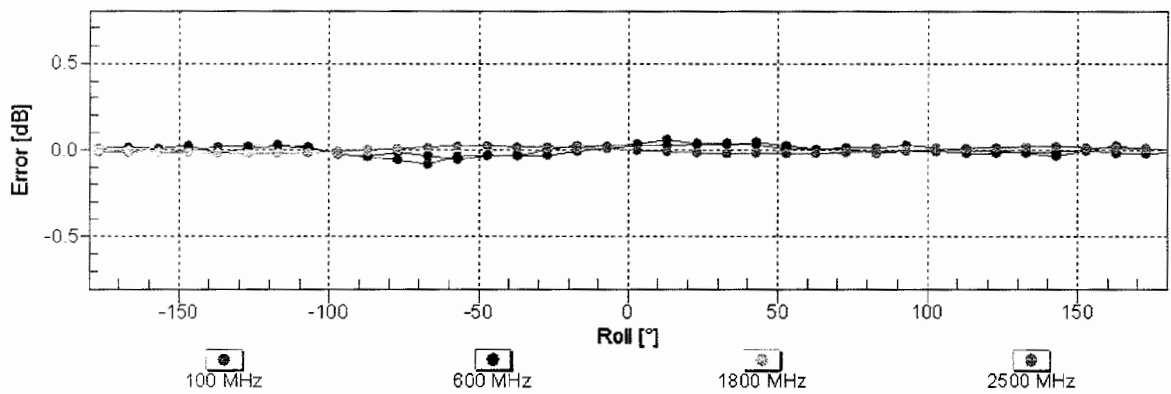
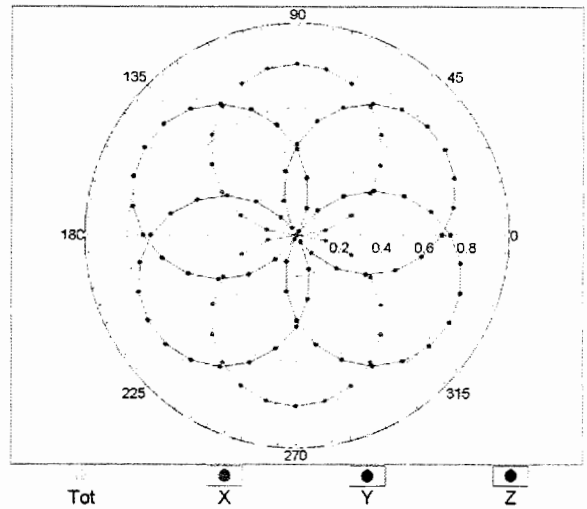
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

Receiving Pattern (ϕ), $\vartheta = 0^\circ$

f=600 MHz,TEM

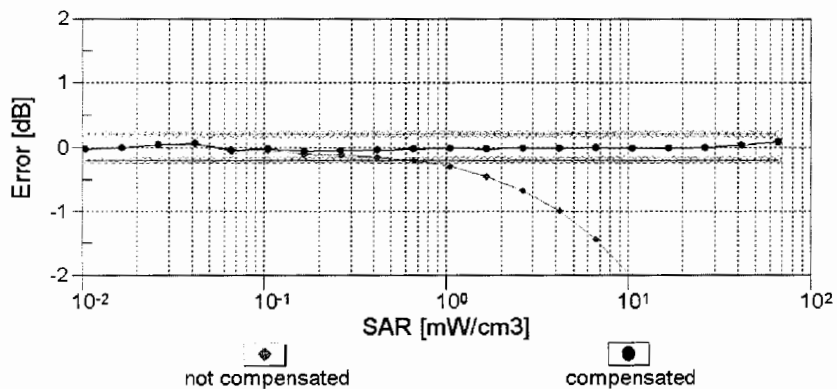
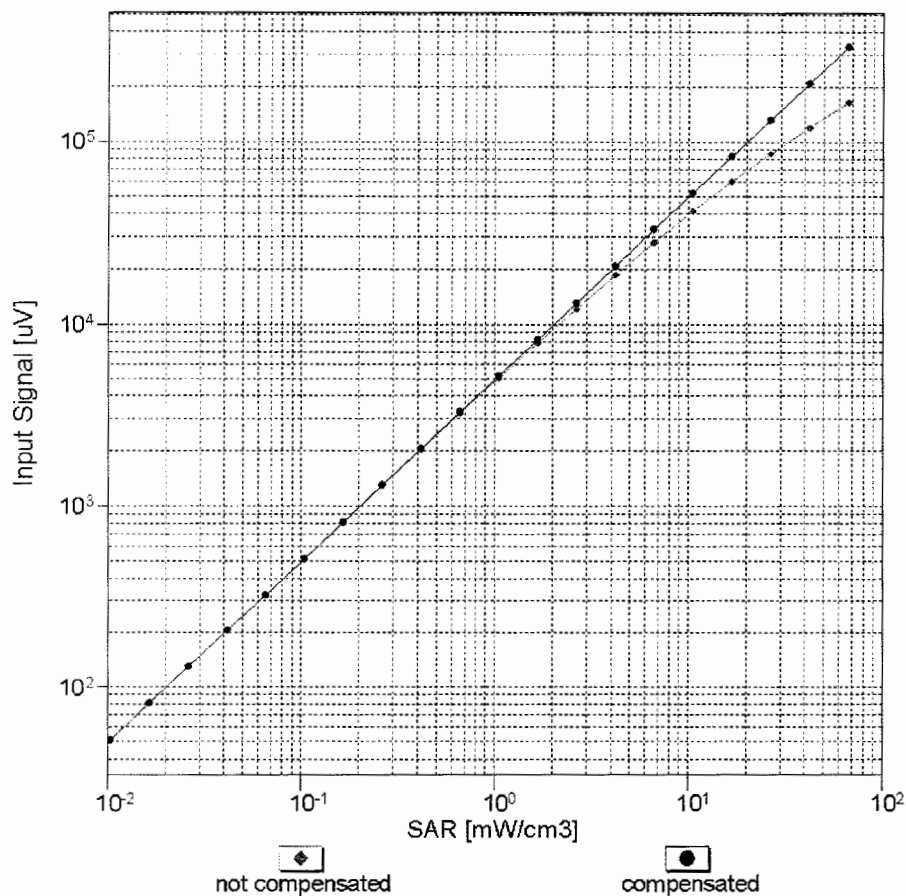


f=1800 MHz,R22



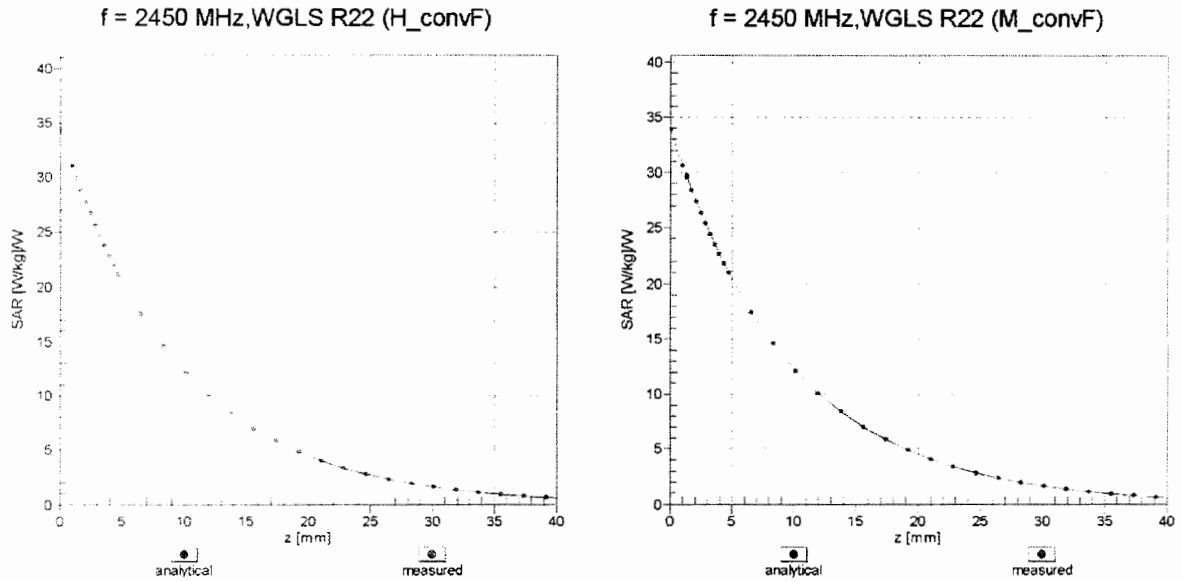
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)



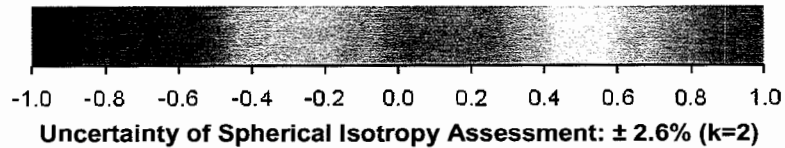
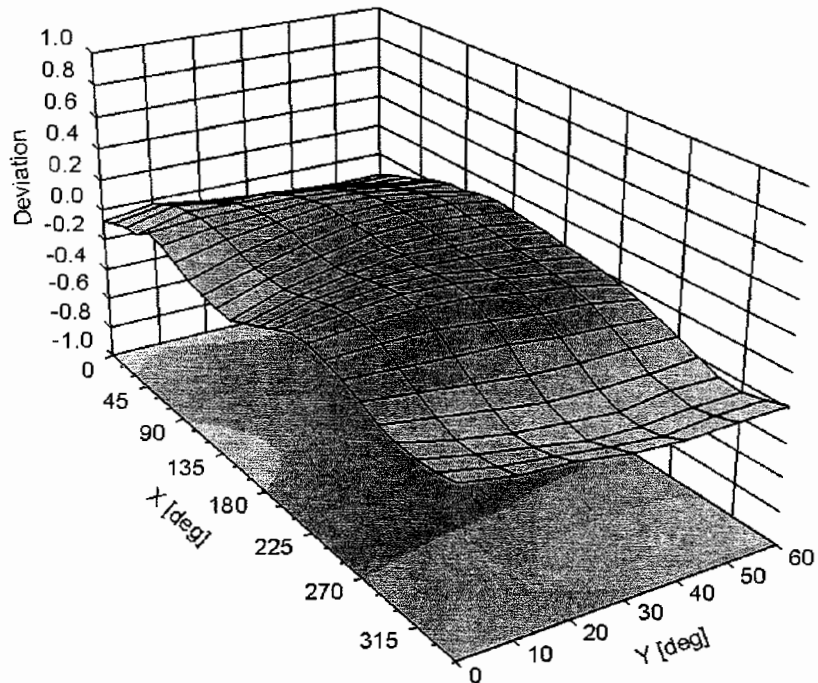
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



DASY/EASY - Parameters of Probe: EX3DV4 - SN:3746

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-137.1
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm



Dipole Calibration

Key points:

1. Dipoles need to be sent to the manufacturer for calibration every 3 years.
2. For those years where they are not sent to the manufacturer the following two parameters are verified annually:
 - a. The return-loss. If it deviates by more than 20% from the calibration data or does not meet the required -20 dB return-loss specification, then it fails the verification and must be sent to the manufacturer for repair and calibration.
 - b. The real and imaginary parts of the impedance. If it deviates by more than 5 Ω from the calibration data, then it fails the verification and must be sent to the manufacturer for repair and calibration.

The return loss and complex impedance were verified to meet the FCC's criteria within one year of the manufacturer's calibration. The calibration data is used for the SAR system verification. The verification data shows that the dipole characteristics have not changed and the calibration data continues to be valid.

Please see attached calibration and verification data.

NORTHWEST EMC		Calibration Certificate & Report				03/27/02dmt	
Device:	Dipole Antenna			SPEAG	SAR2450		
Equipment Code:	ADL			Cal Date:	111413		
Customer:	Northwest EMC		Tester:	Varuzhan Kocharyan		Temperature:	23C
Certificate No.:	ADL	111413	Power:	N/A		Humidity:	40%
						Job Site:	EV10
TEST SPECIFICATIONS							
Specification:	Northwest EMC	Year:		Method:	FCC KDB 865664, Section 3.2.2		
TEST PARAMETERS							
Device Received In Tolerance:	Yes			Calibration Frequency :	2450MHz		
Equipment Used to perform calibration							
Item:	Network Analyzer	Identifier:	NAJ	Model:	Agilent E5061B	Calibration Date	3/24/2011
Item:	50 Ohm Termination	Identifier:	NAHA	Model:	Agilent 85032-60017	Calibration Date	5/6/2013
Item:	10dB Attenuator	Identifier:	RCD	Model:	SA6021-10	Calibration Date	4/15/2013
Item:	Head TSL	Identifier:	SAL	Model:	Head Solution	Calibration Date	9/23/2013
Item:	Body TSL	Identifier:	SAM	Model:	Body Solution	Calibration Date	9/23/2013
COMMENTS, OPINIONS and INTERPRETATIONS							
Measurement Uncertainty							
	Probability Distribution	Impedance (dB)	Return Loss (dB)				
Expanded uncertainty U (level of confidence = 95%)	normal (k=2)	TBD	TBD				
DEVIATIONS FROM TEST STANDARD							
None							
RESULTS							
Pass							
<p>This measurement was a calibration verification. (Instrument parameters are within tolerances.)</p>							
							
Approved By				Tested By			
CALIBRATION DATA ATTACHED							

Verification Data

EUT Dipole Antenna
Model SAR2450
S/N ADL
Manufacturer SPEAG
Date 111413

Temperature 23C
Humidity 40%

Operator Varuzhan Kocharyan

Antenna Parameters with Head TSL
Impedance 50.26 +j5.77 49.71+6.52
Return Loss -28.7 dB

Antenna Parameters with Body TSL
Impedance, Ohms 49.82+j2.87
Return Loss, dB -27.5 dB

Dipole Calibration

Performed by SPEAG (the manufacturer)

ADL

ADL

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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Accreditation No.: **SCS 108**

Client **Northwest EMC**

Certificate No: **D2450V2-855_Dec11**

CALIBRATION CERTIFICATE

Object **D2450V2 - SN: 855**

Calibration procedure(s) **QA CAL-05.v8
Calibration procedure for dipole validation kits above 700 MHz**

Calibration date: **December 09, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	05-Oct-11 (No. 217-01451)	Oct-12
Power sensor HP 8481A	US37292783	05-Oct-11 (No. 217-01451)	Oct-12
Reference 20 dB Attenuator	SN: 5086 (20g)	29-Mar-11 (No. 217-01368)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe ES3DV3	SN: 3205	29-Apr-11 (No. ES3-3205_Apr11)	Apr-12
DAE4	SN: 601	04-Jul-11 (No. DAE4-601_Jul11)	Jul-12
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-11)	In house check: Oct-13
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-11)	In house check: Oct-13
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Dimce Iliev	Laboratory Technician	

	Name	Function	Signature
Approved by:	Katja Pokovic	Technical Manager	

Issued: December 9, 2011
476/499



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:** Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:** The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:** These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:** One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:** SAR measured at the stated antenna input power.
- SAR normalized:** SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:** The measured TSL parameters are used to calculate the nominal SAR result.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.5 ± 6 %	1.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.7 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	53.9 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.38 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	25.3 mW / g ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.7 ± 6 %	2.04 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	---	---

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.0 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	50.4 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.02 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	23.7 mW / g ± 16.5 % (k=2)

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.9 Ω + 4.5 j Ω
Return Loss	- 25.7 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.4 Ω + 5.3 j Ω
Return Loss	- 25.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.157 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	November 10, 2009

DASY5 Validation Report for Head TSL

Date: 09.12.2011

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 855

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.45, 4.45, 4.45); Calibrated: 29.04.2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.07.2011
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

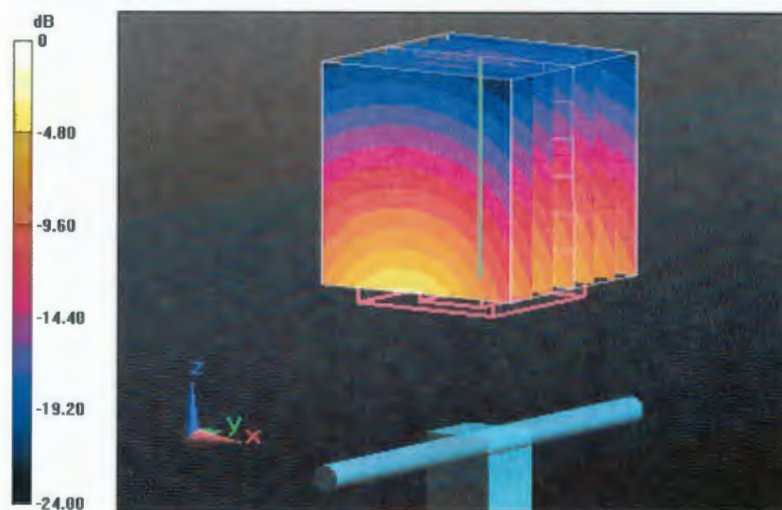
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.7 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 28.3310

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.38 mW/g

Maximum value of SAR (measured) = 17.684 mW/g



0 dB = 17.680mW/g = 24.95 dB mW/g

Impedance Measurement Plot for Head TSL

9 Dec 2011 13:32:30

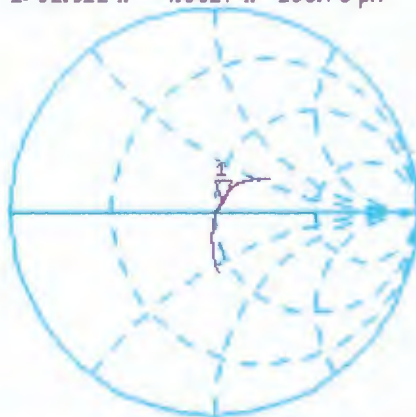
CH1 S11 1 U FS 1: 52.912 Ω 4.5527 Ω 295.75 μH 2 450.000 000 MHz

*
Del

Cor

Avg
16

↑

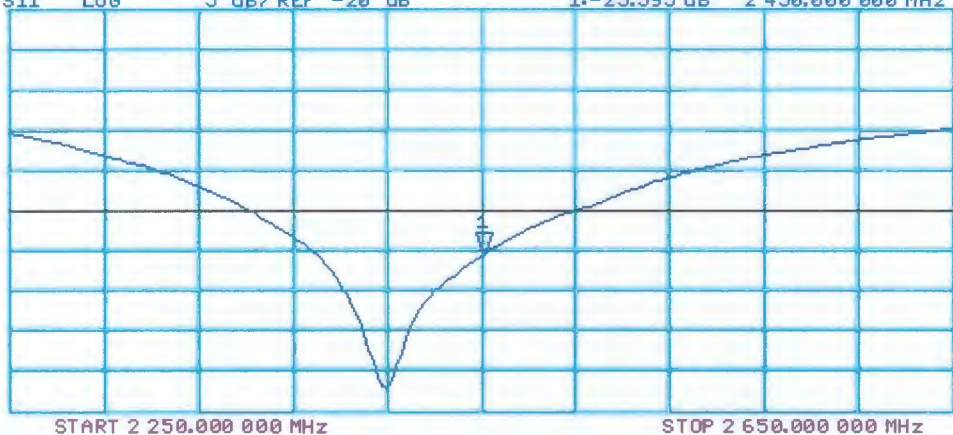


CH2 S11 LOG 5 dB/REF -20 dB 1:-25.595 dB 2 450.000 000 MHz

Cor

Avg
16

↑



DASY5 Validation Report for Body TSL

Date: 08.12.2011

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 855

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: $f = 2450$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.26, 4.26, 4.26); Calibrated: 29.04.2011
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.07.2011
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

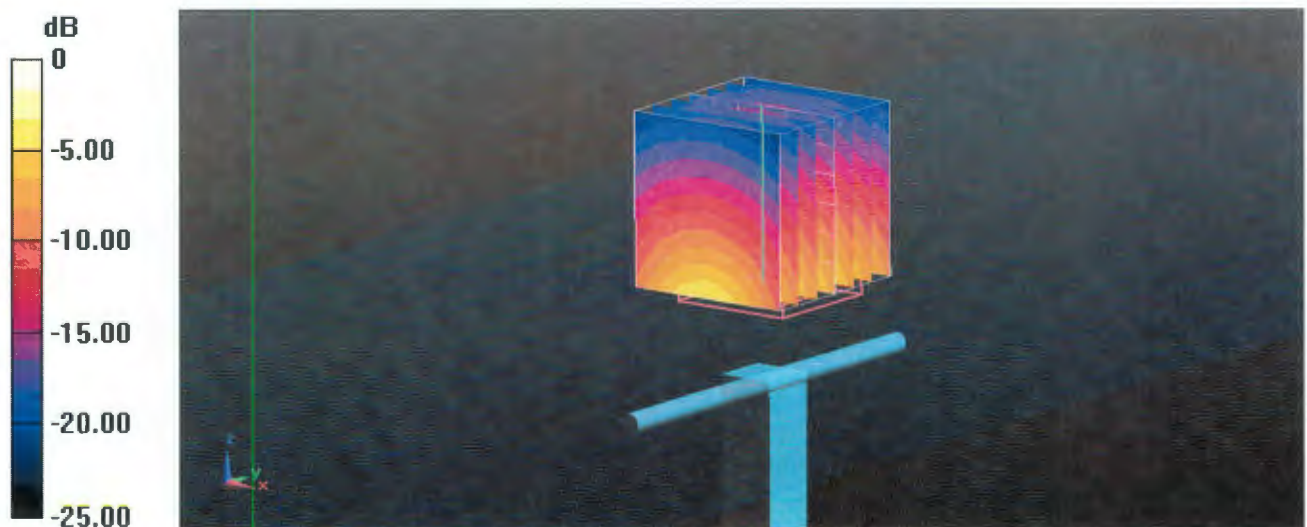
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.074 V/m; Power Drift = -0.0092 dB

Peak SAR (extrapolated) = 27.0840

SAR(1 g) = 13 mW/g; SAR(10 g) = 6.02 mW/g

Maximum value of SAR (measured) = 17.188 mW/g



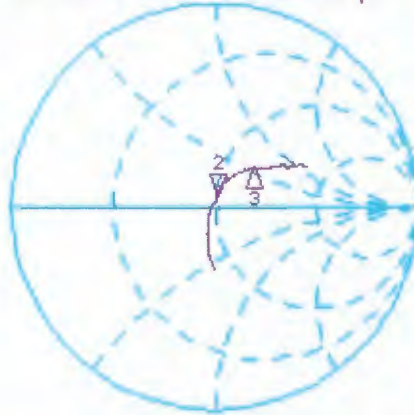
0 dB = 17.190mW/g = 24.71 dB mW/g

Impedance Measurement Plot for Body TSL

8 Dec 2011 11:09:43

CH1 S11 1 U FS 2: 50.367 Ω 5.3594 Ω 348.12 pF 2 450.220 000 MHz

*
De1
CA



CH1 Markers

3: 65.660 Ω
27.344 Ω
2.60000 GHz

H1d

CH2 S11 LOG 5 dB/REF -20 dB 2:-25.455 dB 2 450.220 000 MHz

CA

Avg
16

H1d



CH2 Markers

3:-11.515 dB
2.60000 GHz

START 2 250.000 000 MHz

STOP 2 800.000 000 MHz

Dipole Calibration

Key points:

1. Dipoles need to be sent to the manufacturer for calibration every 3 years.
2. For those years where they are not sent to the manufacturer the following two parameters are verified annually:
 - a. The return-loss. If it deviates by more than 20% from the calibration data or does not meet the required -20 dB return-loss specification, then it fails the verification and must be sent to the manufacturer for repair and calibration.
 - b. The real and imaginary parts of the impedance. If it deviates by more than 5 Ω from the calibration data, then it fails the verification and must be sent to the manufacturer for repair and calibration.

The return loss and complex impedance were verified to meet the FCC's criteria within one year of the manufacturer's calibration. The calibration data is used for the SAR system verification. The verification data shows that the dipole characteristics have not changed and the calibration data continues to be valid.

Please see attached calibration and verification data.

Device:	Dipole Antenna	SPEAG	SAR5.1-5.8		
Equipment Code:	ADM			Cal Date:	022514
				Temperature:	21.8C
Customer:	Northwest EMC	Tester:	Carl Engholm	Humidity:	41%
Certificate No.:	ADM 022514	Power:	N/A	Job Site:	EV12

TEST SPECIFICATIONS					
Specification:	Northwest EMC	Year:	2013	Method:	KDB 450824 D02 Dipole SAR Validation Verification v01r01

TEST PARAMETERS					
Device Received In Tolerance:	Yes	Calibration Frequency :	5.2GHz, 5.5GHz, 5.8GHz		
Equipment Used to perform calibration					
Item:	Network Analyzer	Identifier:	NAD	Model:	Agilent N5230A
					Last Cal Date: 5/20/2013
Item:	3.5mm Ecal Module	Identifier:	NADA	Model:	Agilent N4691-60004
					Last Cal Date: 5/20/2013
Item:	Head TSL	Identifier:	SAUA	Model:	Head Solution
					Last Cal Date: 24 hours
Item:	Body TSL	Identifier:	SAVB	Model:	Body Solution
					Last Cal Date: 24 hours
Item:		Identifier:		Model:	
					Last Cal Date:

COMMENTS, OPINIONS and INTERPRETATIONS

Measurement Uncertainty					
	Probability Distribution	Impedance (dB)	Return Loss (dB)		
Expanded uncertainty U (level of confidence = 95%)	normal (k=2)	TBD	TBD		

DEVIATIONS FROM TEST STANDARD
None

RESULTS
Pass

This measurement was a calibration verification. (Instrument parameters are within tolerances.)

Quantum Telecom

Approved By

Carl Engholm

Tested By

CALIBRATION DATA ATTACHED

Verification Data

EUT Dipole Antenna
 Model SAR 5.1-5.8
 S/N ADM
 Manufacturer SPEAG
 Date 2/25/2014

Temperature 21.8C
 Humidity 41%

5.2GHz

Antenna Parameters with Head TSL

Impedance, Ohms 53.2 + j9.6
 Return Loss, dB -20.3

Antenna Parameters with Body TSL

Impedance, Ohms 39.6 + j4.0
 Return Loss, dB -18.5

EUT Dipole Antenna
 Model SAR 5.1-5.8
 S/N ADM
 Manufacturer SPEAG
 Date 2/25/2014

Temperature 21.8C
 Humidity 41%

5.5GHz

Antenna Parameters with Head TSL

Impedance, Ohms 52 + j6.7
 Return Loss, dB -23.7

Antenna Parameters with Body TSL

Impedance, Ohms 46.2 - j4.8
 Return Loss, dB -23.2

5.8GHz

Antenna Parameters with Head TSL

Impedance, Ohms 50.6 + j11.4
 Return Loss, dB -18.6

Antenna Parameters with Body TSL

Impedance, Ohms 59.3 + j2.9
 Return Loss, dB -21.7

EUT Dipole Antenna
 Model SAR 5.1-5.8
 S/N ADM
 Manufacturer SPEAG
 Date 2/25/2014

Temperature 21.8C
 Humidity 41%

Dipole Calibration

Performed by SPEAG (the manufacturer)

ADM



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Northwest EMC**

Certificate No: **D5GHzV2-1066_Dec11**

CALIBRATION CERTIFICATE

Object **D5GHzV2 - SN: 1066**

Calibration procedure(s) **QA CAL-22.v1
Calibration procedure for dipole validation kits between 3-6 GHz**

Calibration date: **December 14, 2011**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	05-Oct-11 (No. 217-01451)	Oct-12
Power sensor HP 8481A	US37292783	05-Oct-11 (No. 217-01451)	Oct-12
Reference 20 dB Attenuator	SN: 5086 (20g)	29-Mar-11 (No. 217-01368)	Apr-12
Type-N mismatch combination	SN: 5047.2 / 06327	29-Mar-11 (No. 217-01371)	Apr-12
Reference Probe EX3DV4	SN: 3503	04-Mar-11 (No. EX3-3503_Mar11)	Mar-12
DAE4	SN: 601	04-Jul-11 (No. DAE4-601_Jul11)	Jul-12
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-11)	In house check: Oct-13
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-11)	In house check: Oct-13
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	



Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

- DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured:* SAR measured at the stated antenna input power.
- SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5500 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.1 ± 6 %	4.65 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.13 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	81.3 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.32 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	23.2 mW / g ± 16.5 % (k=2)

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.6 ± 6 %	4.96 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.53 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	85.3 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.41 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	24.1 mW / g ± 16.5 % (k=2)

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.1 ± 6 %	5.27 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.86 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	78.5 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	22.2 mW / g ± 16.5 % (k=2)

Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	49.6 ± 6 %	5.44 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.51 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	75.3 mW / g ± 18.1 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.09 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	21.0 mW / g ± 17.6 % (k=2)

Body TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.6	5.65 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	49.0 ± 6 %	5.86 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.04 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	80.7 mW / g ± 18.1 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.22 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	22.3 mW / g ± 17.6 % (k=2)

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.4 ± 6 %	6.28 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.54 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	75.6 mW / g ± 18.1 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.07 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	20.8 mW / g ± 17.6 % (k=2)

Appendix

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	51.8 Ω - 5.1 j Ω
Return Loss	- 25.6 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	53.2 Ω - 2.3 j Ω
Return Loss	- 28.4 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.5 Ω - 1.0 j Ω
Return Loss	- 25.5 dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	51.2 Ω - 4.7 j Ω
Return Loss	- 26.4 dB

Antenna Parameters with Body TSL at 5500 MHz

Impedance, transformed to feed point	53.5 Ω - 0.2 j Ω
Return Loss	- 29.4 dB

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	56.4 Ω + 1.6 j Ω
Return Loss	- 24.1 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.197 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured. The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on Report No. INTE5434	November 27, 2006 493/499

DASY5 Validation Report for Head TSL

Date: 14.12.2011

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1066

Communication System: CW; Frequency: 5200 MHz, Frequency: 5500 MHz, Frequency: 5800 MHz
Medium parameters used: $f = 5200$ MHz; $\sigma = 4.65$ mho/m; $\epsilon_r = 36.1$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5500$ MHz; $\sigma = 4.96$ mho/m; $\epsilon_r = 35.6$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5800$ MHz; $\sigma = 5.27$ mho/m; $\epsilon_r = 35.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.41, 5.41, 5.41), ConvF(4.91, 4.91, 4.91), ConvF(4.81, 4.81, 4.81); Calibrated: 04.03.2011
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.07.2011
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.855 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 30.2380

SAR(1 g) = 8.13 mW/g; SAR(10 g) = 2.32 mW/g

Maximum value of SAR (measured) = 18.418 mW/g

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.965 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.8680

SAR(1 g) = 8.53 mW/g; SAR(10 g) = 2.41 mW/g

Maximum value of SAR (measured) = 19.692 mW/g

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

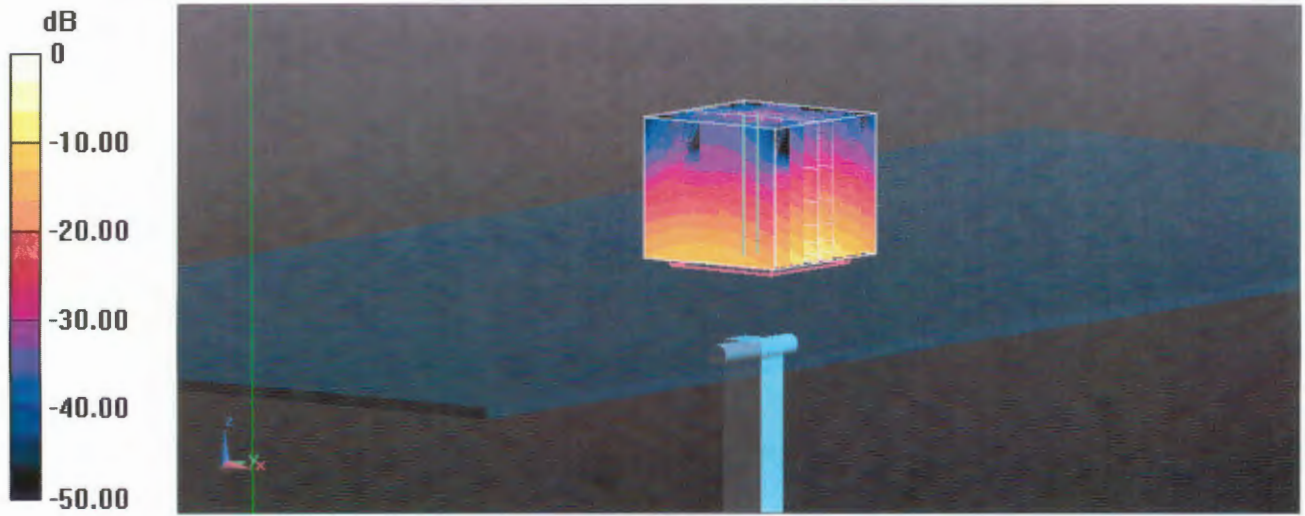
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 61.095 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 33.1420

SAR(1 g) = 7.86 mW/g; SAR(10 g) = 2.22 mW/g

Maximum value of SAR (measured) = 18.642 mW/g



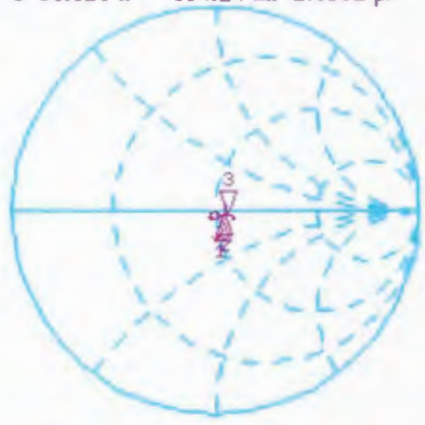
0 dB = 18.640mW/g = 25.41 dB mW/g

Impedance Measurement Plot for Head TSL

14 Dec 2011 09:59:02

CH1 S11 1 U FS 3: 55.518 Ω -994.14 m Ω 27.602 pF 5 800.000 000 MHz

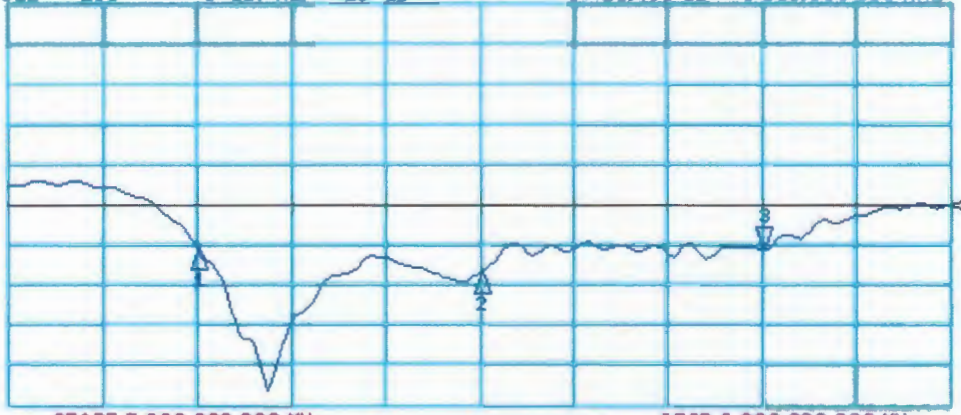
*
De1
Cor
Avg
16
H1d



CH1 Markers
1: 51.801 Ω
-5.0625 Ω
5.20000 GHz
2: 53.201 Ω
-2.2988 Ω
5.50000 GHz

CH2 S11 LOG 5 dB/REF -20 dB 3: -25.493 dB 5 800.000 000 MHz

Cor
Avg
16
H1d



CH2 Markers
1: -25.562 dB
5.20000 GHz
2: -28.356 dB
5.50000 GHz

START 5 000.000 000 MHz STOP 6 000.000 000 MHz

DASY5 Validation Report for Body TSL

Date: 13.12.2011

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1066

Communication System: CW; Frequency: 5200 MHz, Frequency: 5500 MHz, Frequency: 5800 MHz
Medium parameters used: $f = 5200$ MHz; $\sigma = 5.44$ mho/m; $\epsilon_r = 49.6$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5500$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 49$; $\rho = 1000$ kg/m³, Medium parameters used: $f = 5800$ MHz; $\sigma = 6.28$ mho/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(4.91, 4.91, 4.91), ConvF(4.43, 4.43, 4.43), ConvF(4.38, 4.38, 4.38); Calibrated: 04.03.2011
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.07.2011
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.0(692); SEMCAD X 14.6.4(4989)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 58.272 V/m; Power Drift = -0.0057 dB

Peak SAR (extrapolated) = 29.4900

SAR(1 g) = 7.51 mW/g; SAR(10 g) = 2.09 mW/g

Maximum value of SAR (measured) = 17.296 mW/g

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 58.543 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 34.4970

SAR(1 g) = 8.04 mW/g; SAR(10 g) = 2.22 mW/g

Maximum value of SAR (measured) = 19.193 mW/g

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

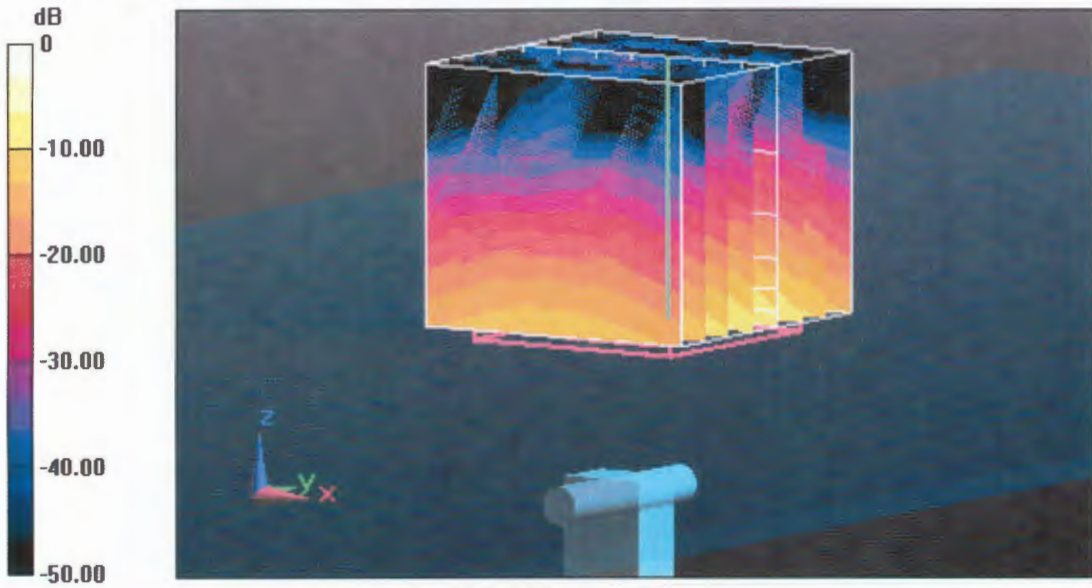
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 54.820 V/m; Power Drift = -0.0098 dB

Peak SAR (extrapolated) = 35.3730

SAR(1 g) = 7.54 mW/g; SAR(10 g) = 2.07 mW/g

Maximum value of SAR (measured) = 18.371 mW/g



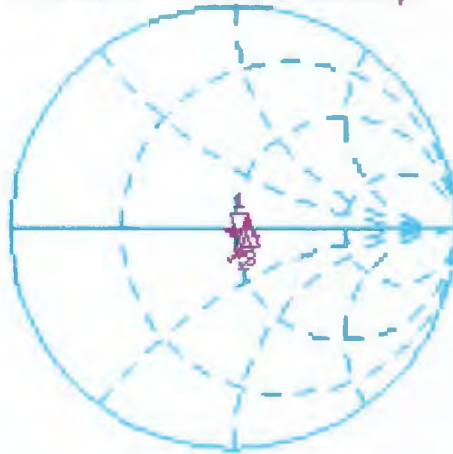
$$0 \text{ dB} = 18.370 \text{ mW/g} = 25.28 \text{ dB mW/g}$$

Impedance Measurement Plot for Body TSL

13 Dec 2011 10:52:37

CH1 S11 1 U FS 1: 51.188 Ω -4.7188 Ω 6.4863 pF 5 200.000 000 MHz

*
Del
Cor
Avg
16
H1d

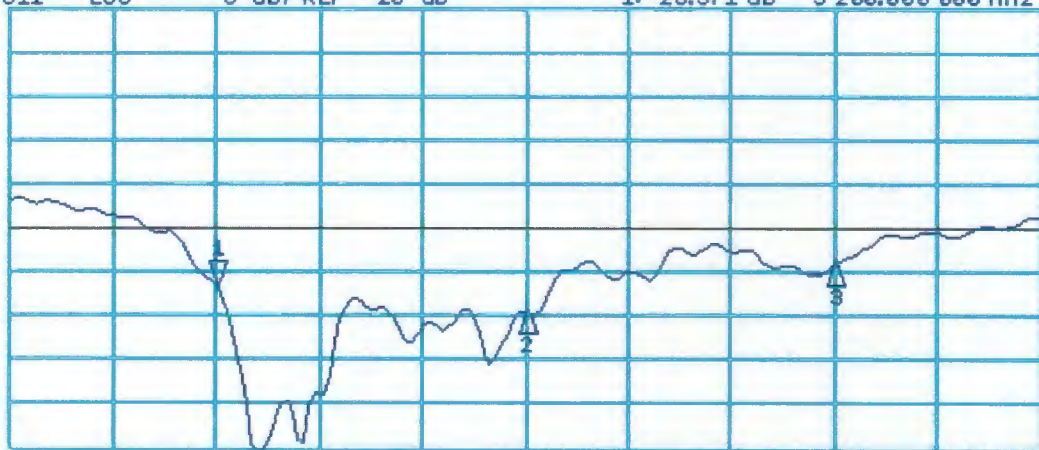


CH1 Markers

2: 53.516 Ω
-164.06 m Ω
5.50000 GHz
3: 56.428 Ω
1.6426 Ω
5.80000 GHz

CH2 S11 LOG 5 dB/REF -20 dB 1: -26.371 dB 5 200.000 000 MHz

Cor
Avg
16
H1d



CH2 Markers

2: -29.363 dB
5.50000 GHz
3: -24.106 dB
5.80000 GHz