

Test Date: 31 January 2008

File Name: [Edge On Top DSSS 2.45 GHz Champlain Antenna A Bluetooth Off 850MHz GSM 31-01-08.da4](#)

DUT: Fujitsu Tablet Champlain with Kedron 11abgn and Bluetooth; Type: 4965ABG; Serial: MAC: 0013E8175E6F

* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 1.94329$ mho/m, $\epsilon_r = 51.9716$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.98, 3.98, 3.98)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 1 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.02 mW/g

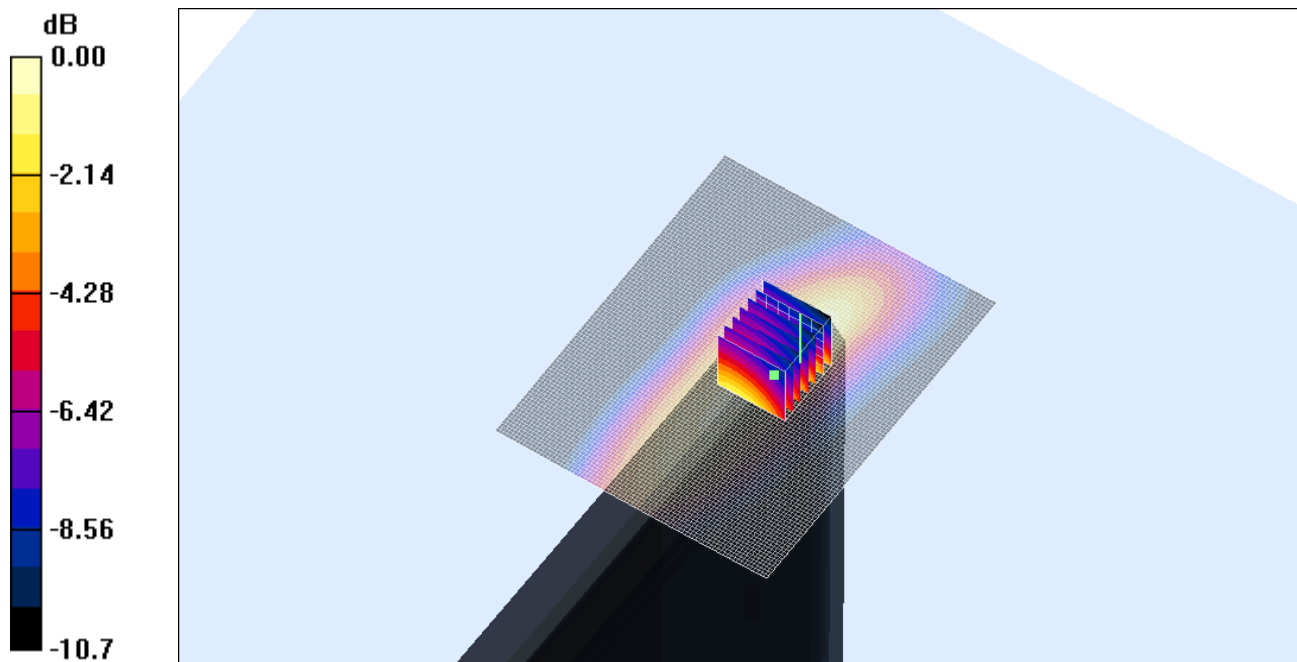
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.5 V/m; Power Drift = -0.092 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.893 mW/g; SAR(10 g) = 0.551 mW/g

Maximum value of SAR (measured) = 0.977 mW/g



0 dB = 0.977mW/g

SAR MEASUREMENT PLOT 14

Ambient Temperature
Liquid Temperature
Humidity

21.4 Degrees Celsius
20.9 Degrees Celsius
63.0 %

Test Date: 11 February 2008

Multi-band WLAN + 850MHz GPRS Evaluation

DASY4 Configuration for Arm Held Position/Channel 190 Test 2/Volume Scan:

Date/Time: 11/02/2008 7:37:29 AM

Test Laboratory: EMC Technologies

File Name: [Edge On Top OFDM \(HT0 Mbps 20 MHz\) 5.8 GHz Ant A 2dB Att BLT Off 850 MHz GSM \(Volumetric GSM part\) 11-02-08.da4](#)

DUT: Fujitsu Tablet Champlain with Kedron 11abgn and Bluetooth; Type: 4965ABG; Serial: MAC: 0013E8175E6F

Communication System: 850MHz 1900 MHz GPRS Class 10; Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium: Body 835 MHz Medium parameters used: $\sigma = 0.959924$ mho/m, $\epsilon_r = 53.0305$; $\rho = 1000$ kg/m³

Phantom section: Flat 2.2 Section

Measurement Standard: DASY4 (High Precision Assessment)

- Probe: ET3DV6 - SN1377; ConvF(6.03, 6.03, 6.03); Calibrated: 9/07/2007
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 17/12/2007
- Measurement SW: DASY4, V4.7 Build 53

DASY4 Configuration for Arm Held Position/Channel 157 Test 2/Volume Scan:

Date/Time: 11/02/2008 1:48:39 PM

Test Laboratory: EMC Technologies

File Name: [Edge On Top OFDM \(HT0 Mbps 20 MHz\) 5.8 GHz Ant A 2dB Att BLT Off \(Volumetric WiFi part\) 11-02-08.da4](#)

DUT: Fujitsu Tablet Champlain with Kedron 11abgn and Bluetooth; Type: 4965ABG; Serial: MAC: 0013E8175E6F

Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: Body 5600 MHz Medium parameters used: $\sigma = 6.08734$ mho/m, $\epsilon_r = 47.8207$; $\rho = 1000$ kg/m³

Phantom section: Flat 2.2 Section

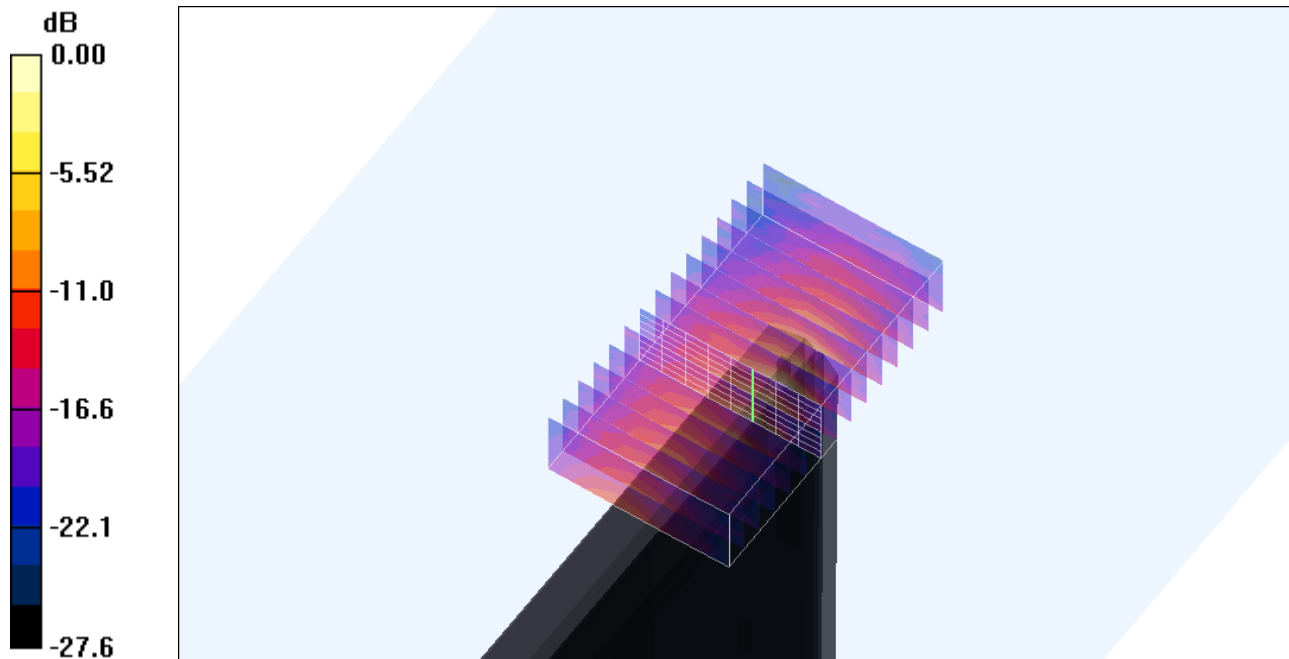
Measurement Standard: DASY4 (High Precision Assessment)

- Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64); Calibrated: 14/07/2006
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn442; Calibrated: 17/12/2007
- Measurement SW: DASY4, V4.7 Build 53

Multi Band Result:

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 1.64 mW/g

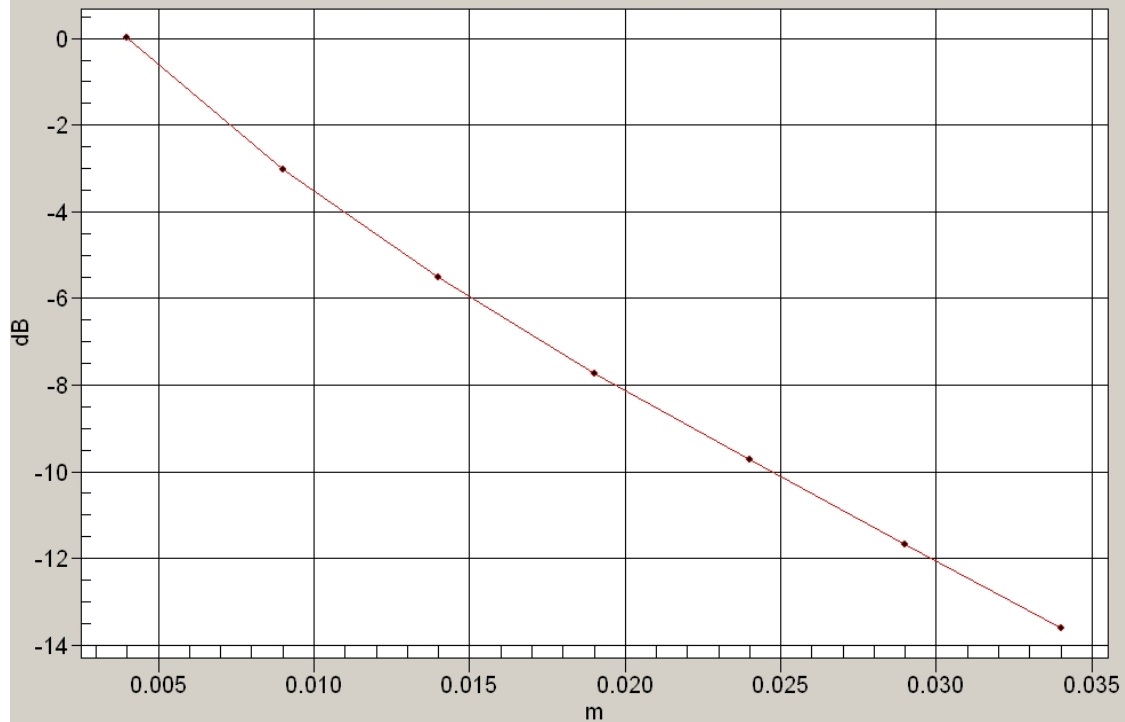


0 dB = 1.64mW/g

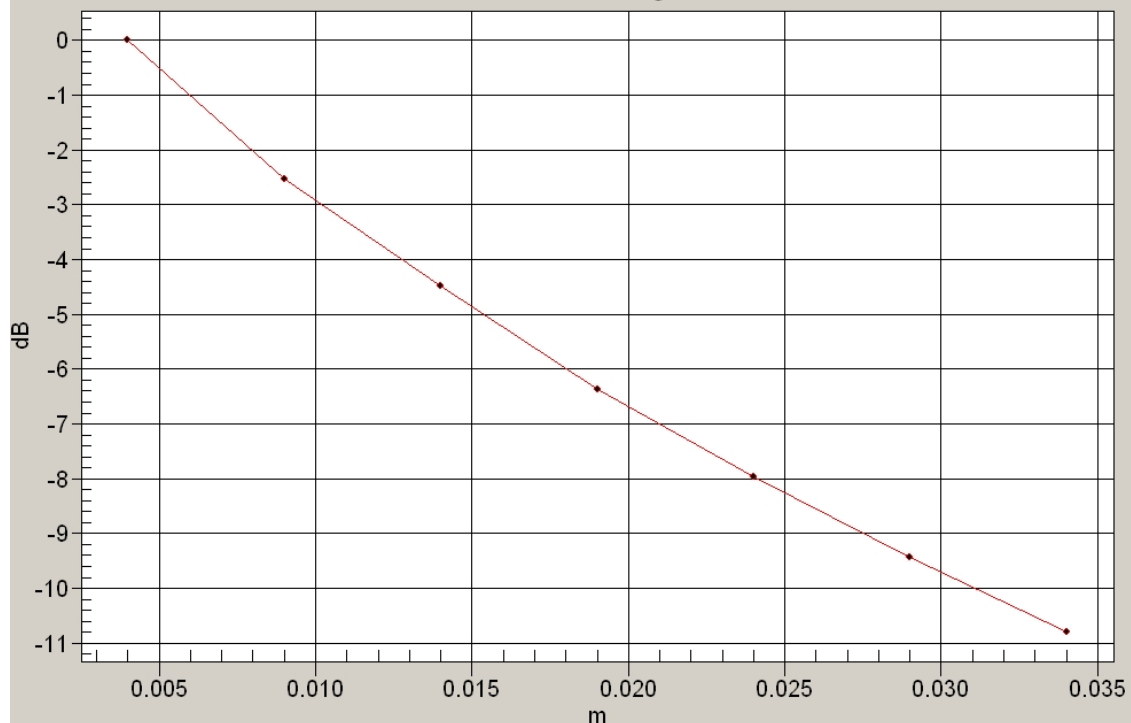
SAR MEASUREMENT PLOT 15

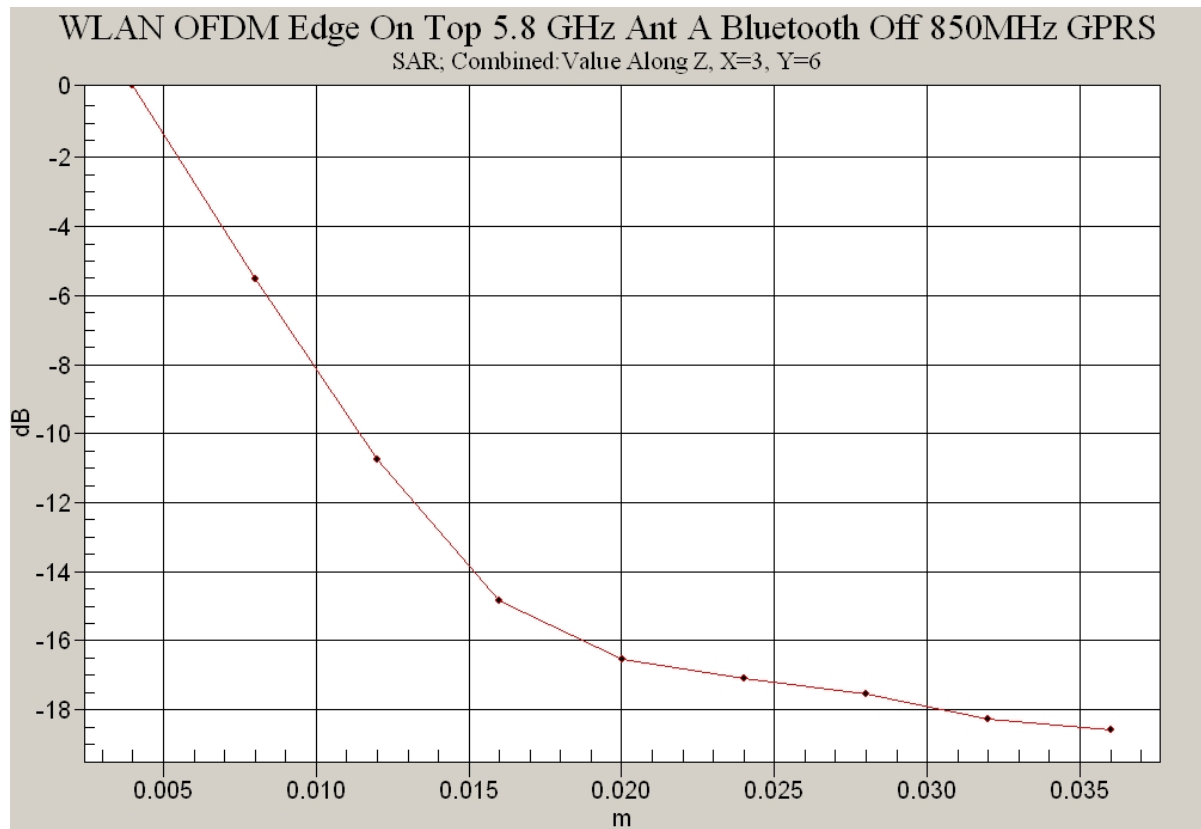
Edge On Right GPRS Class 10 Channel 251 WiFi Test 1

SAR; Zoom Scan: Value Along Z, X=3, Y=3

**1g/10g Averaged SAR Edge On Top DSSS 2.45GHz Ant A Bluetooth Off 850MHz GSM**

SAR; Zoom Scan: Value Along Z, X=3, Y=3





Test Date: 24 November 2007

File Name: Tablet 1900 MHz GPRS Class 10 Champlain Prescan 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 10; Frequency: 1880 MHz; Duty Cycle: 1:4.15

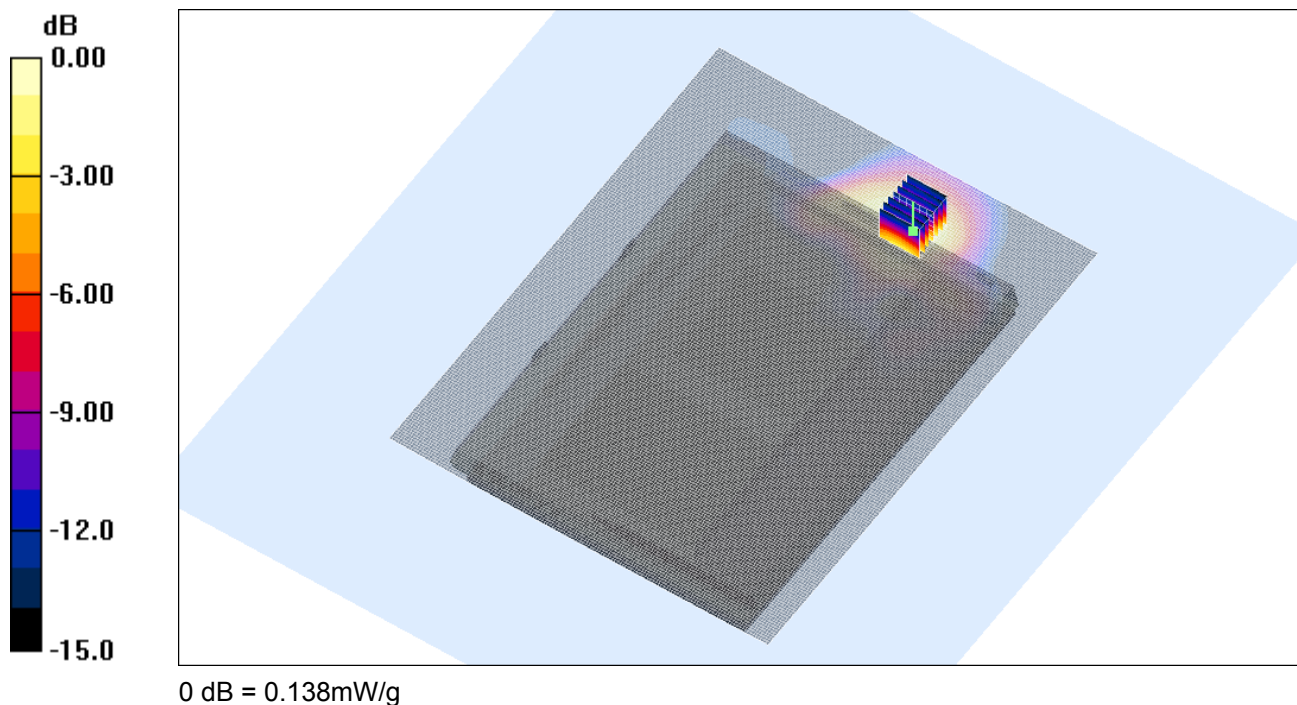
* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (141x181x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.133 mW/g



SAR MEASUREMENT PLOT 16

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Edge On Top 1900 MHz GPRS Class 10 Champlain Prescan 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 10; Frequency: 1880 MHz; Duty Cycle: 1:4.15

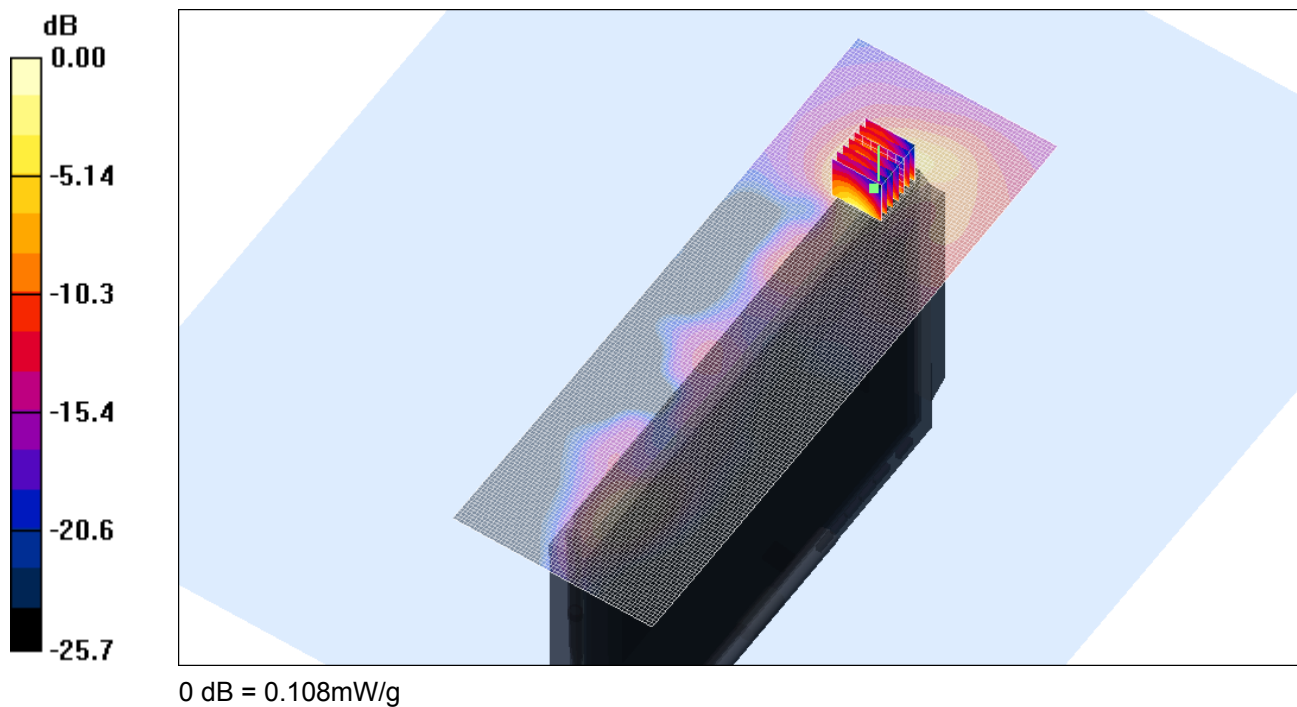
* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (61x181x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.098 mW/g



SAR MEASUREMENT PLOT 17

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Edge On Right 1900 MHz GPRS Class 10 Champlain Prescan 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 10; Frequency: 1880 MHz; Duty Cycle: 1:4.15

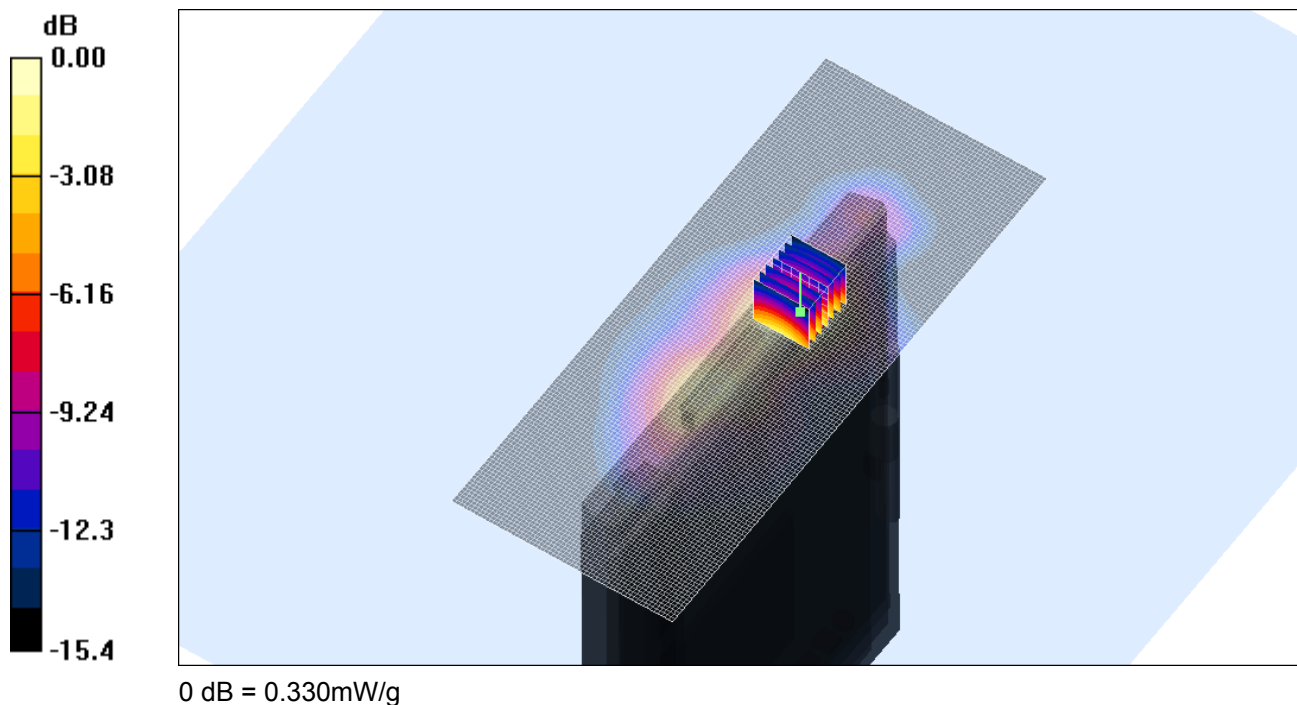
* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (61x151x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.312 mW/g



SAR MEASUREMENT PLOT 18

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Laps On 1900 MHz GPRS Class 10 Champlain Prescan 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 10; Frequency: 1880 MHz; Duty Cycle: 1:4.15

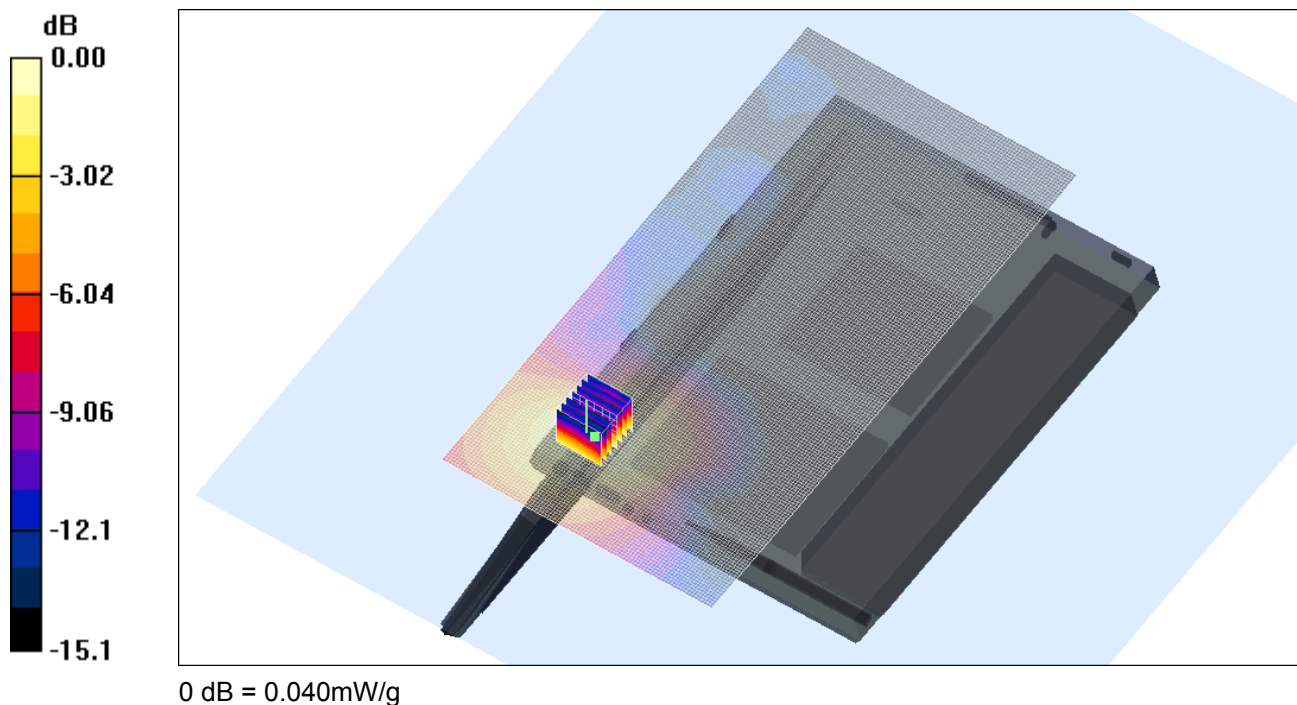
* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (91x181x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.038 mW/g



SAR MEASUREMENT PLOT 19

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Tablet 1900 MHz GPRS Class 12 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 12; Frequency: 1880 MHz; Duty Cycle: 1:2.075

* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.280 mW/g

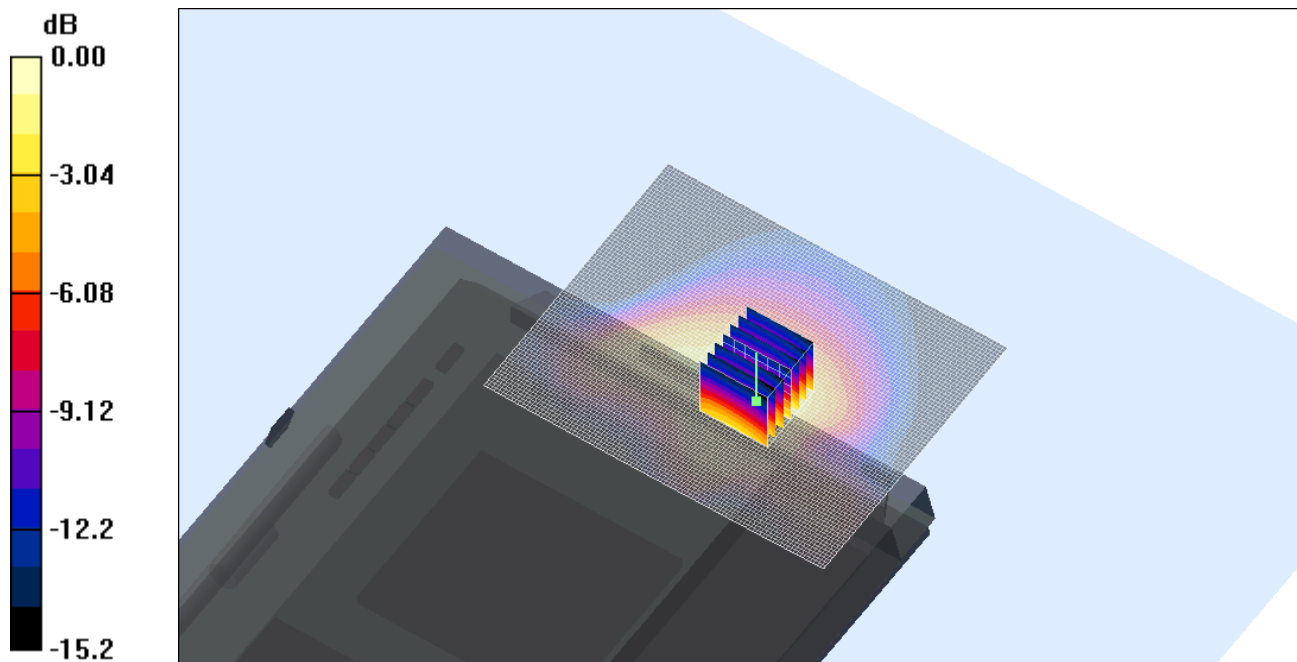
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.34 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.279mW/g

SAR MEASUREMENT PLOT 20

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Edge On Top 1900 MHz GPRS Class 12 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 12; Frequency: 1880 MHz; Duty Cycle: 1:2.075

* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (81x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.222 mW/g

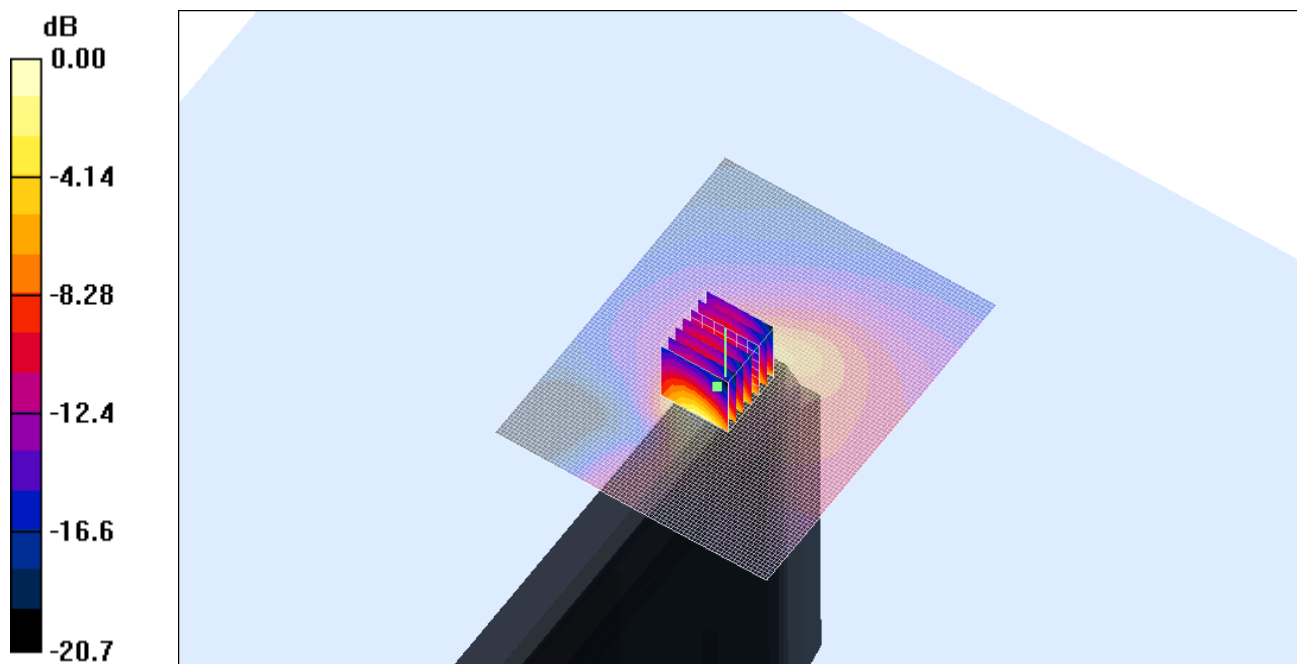
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.62 V/m; Power Drift = -0.364 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.097 mW/g

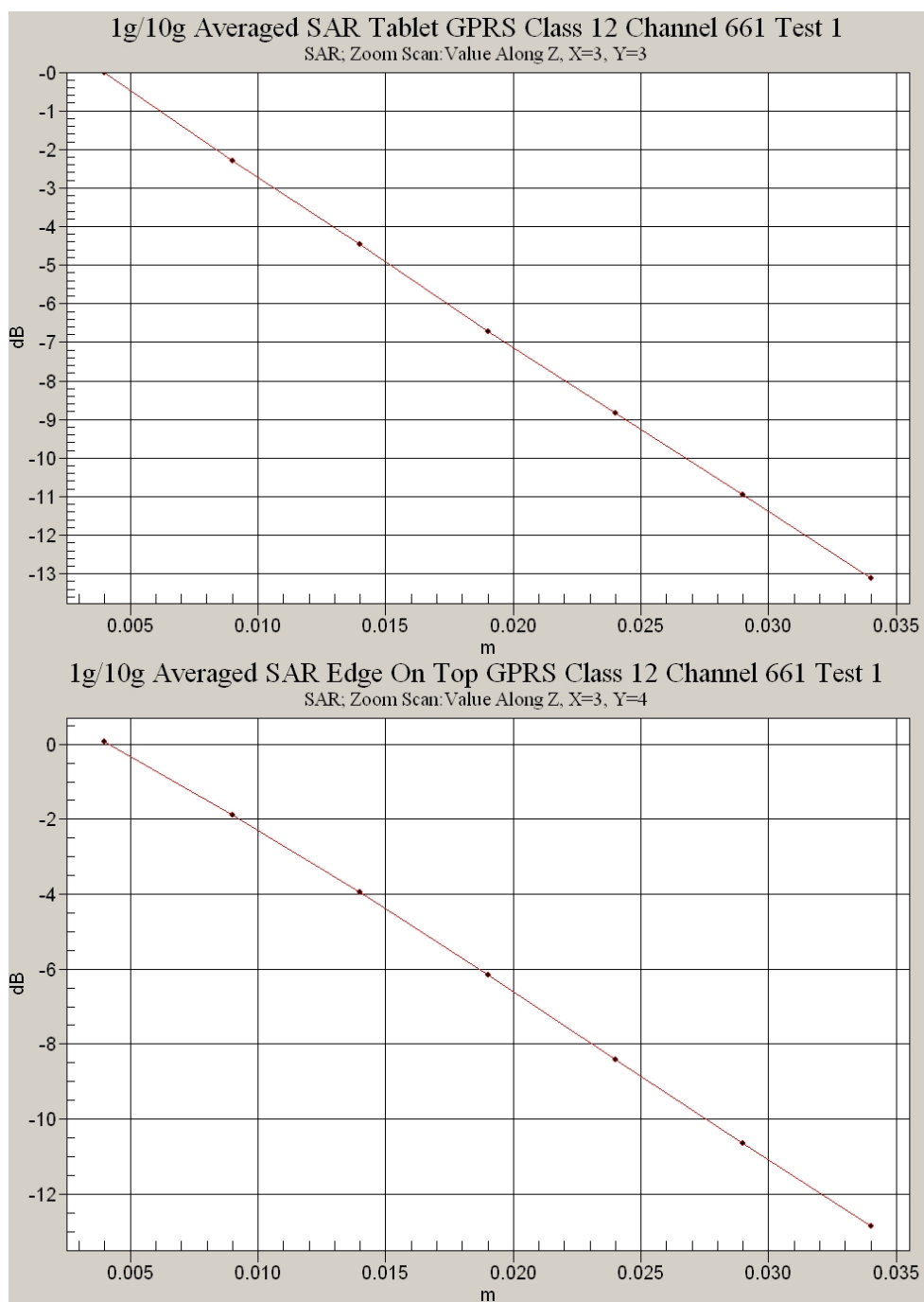
Maximum value of SAR (measured) = 0.209 mW/g



SAR MEASUREMENT PLOT 21

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %



Test Date: 24 November 2007

File Name: Edge On Right 1900 MHz GPRS Class 10 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 10; Frequency: 1880 MHz; Duty Cycle: 1:4.15

* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.358 mW/g

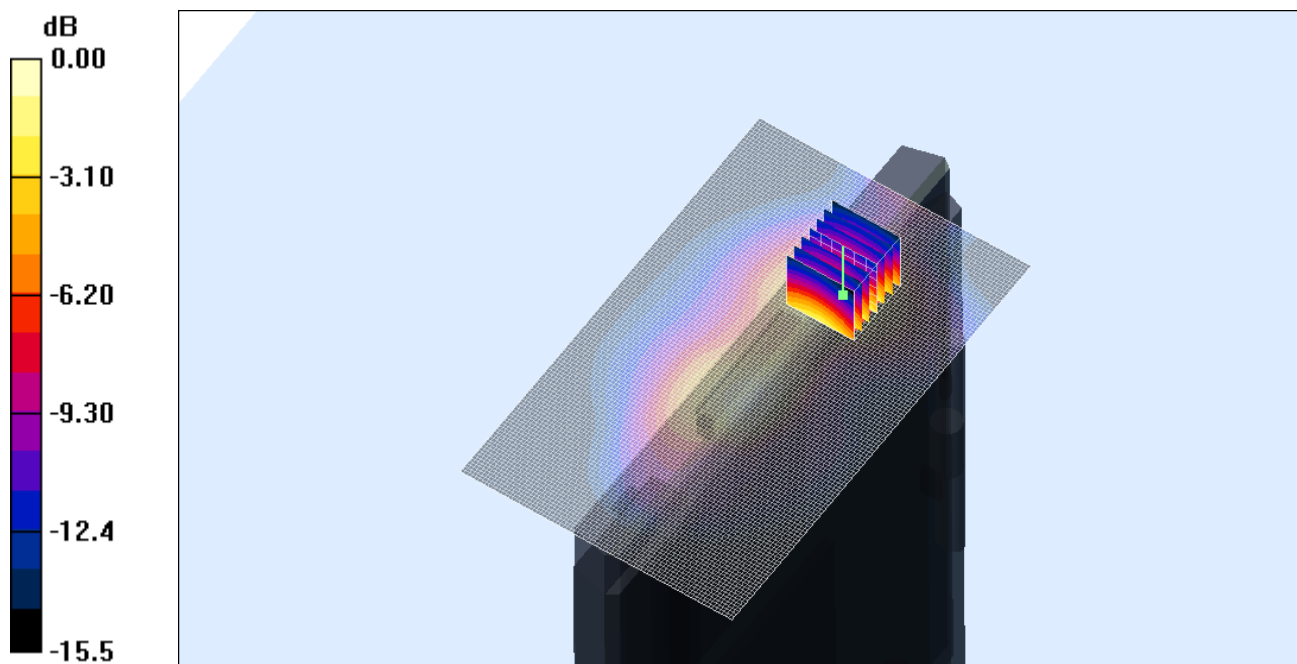
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.65 V/m; Power Drift = 0.028 dB

Peak SAR (extrapolated) = 0.493 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.185 mW/g

Maximum value of SAR (measured) = 0.341 mW/g



0 dB = 0.341mW/g

SAR MEASUREMENT PLOT 22

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Edge On Right 1900 MHz GPRS Class 11 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 11; Frequency: 1880 MHz; Duty Cycle: 1:3.1125

* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.520 mW/g

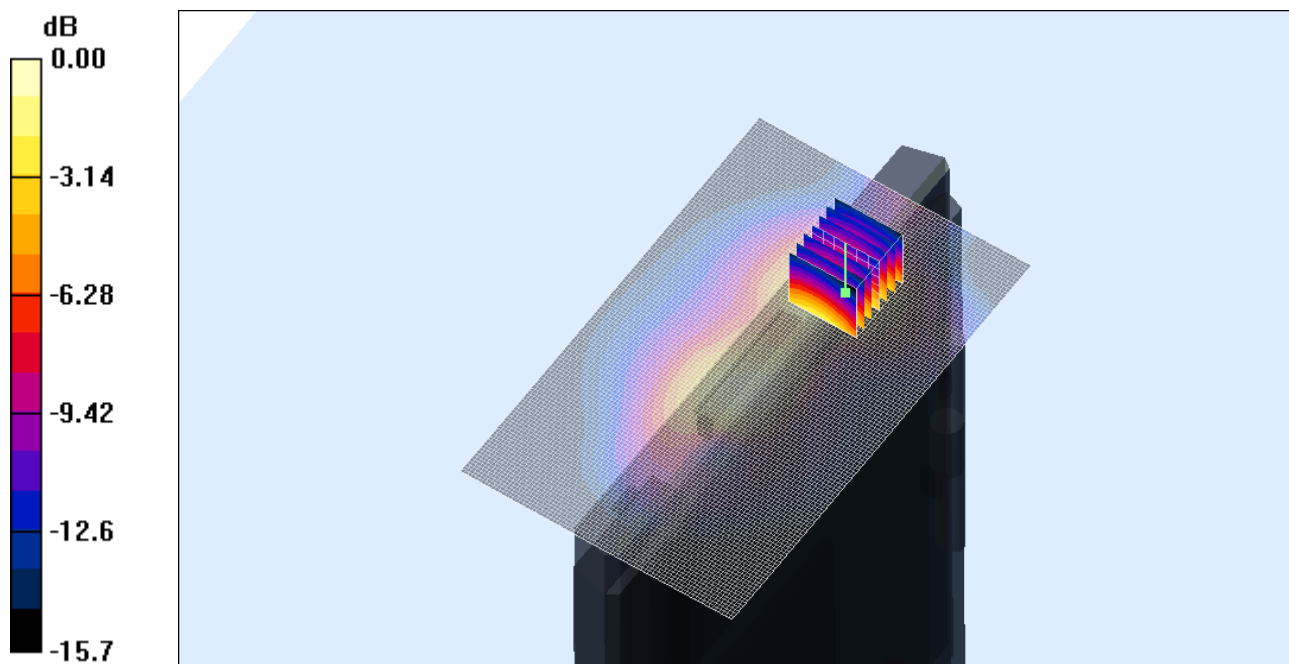
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.4 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.274 mW/g

Maximum value of SAR (measured) = 0.507 mW/g

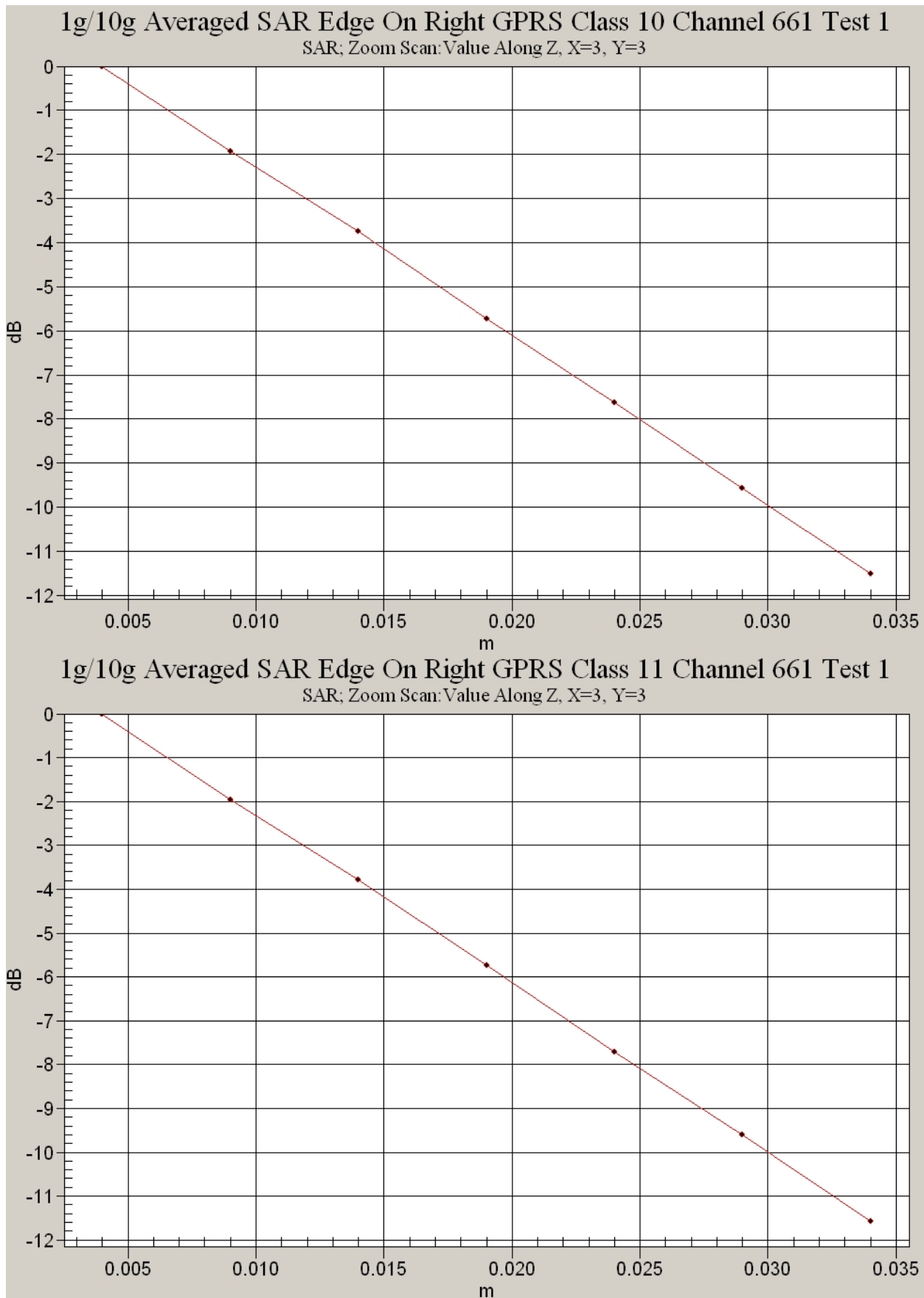


0 dB = 0.507mW/g

SAR MEASUREMENT PLOT 23

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %



Test Date: 24 November 2007

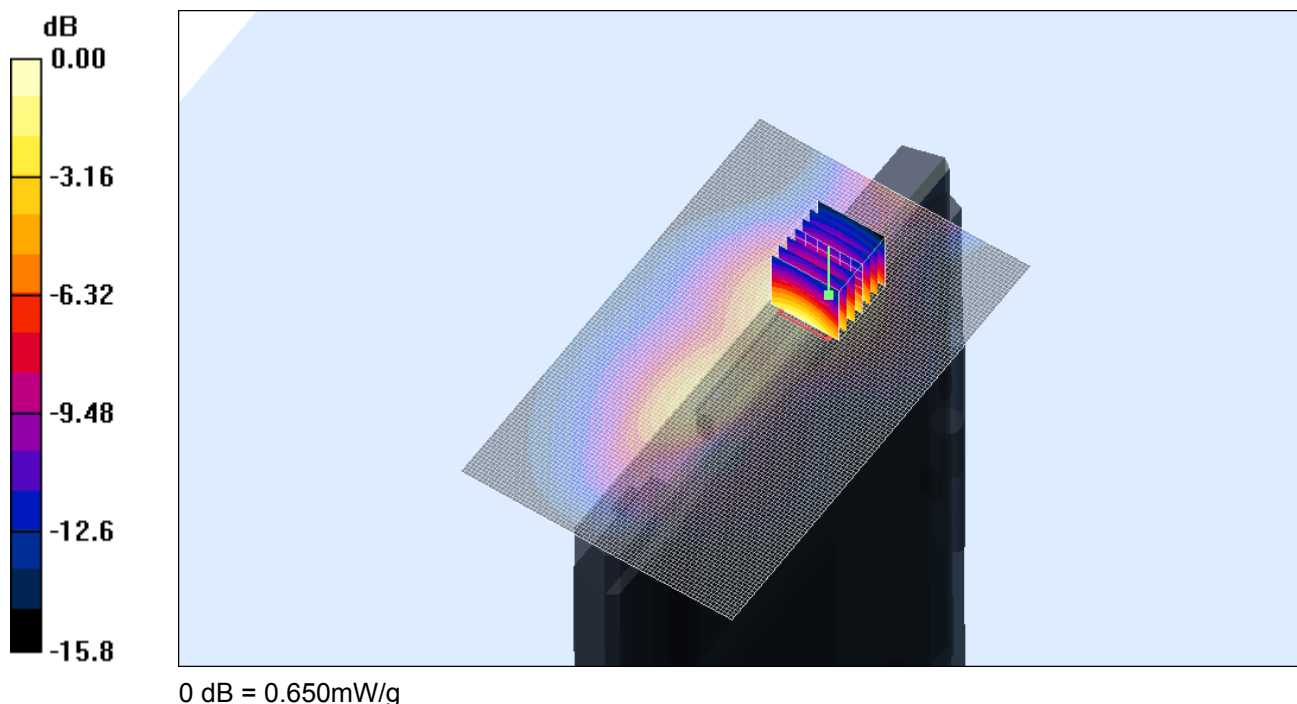
File Name: Edge On Right 1900 MHz GPRS Class 12 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

- * Communication System: 850MHz 1900 MHz GPRS Class 12; Frequency: 1850.2 MHz; Duty Cycle: 1:2.075
- * Medium parameters used: $\sigma = 1.52608$ mho/m, $\epsilon_r = 51.2644$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 512 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.646 mW/g

Channel 512 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = 0.110 dB
Peak SAR (extrapolated) = 0.938 W/kg
SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.353 mW/g
Maximum value of SAR (measured) = 0.650 mW/g



SAR MEASUREMENT PLOT 24

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

File Name: Edge On Right 1900 MHz GPRS Class 12 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz GPRS Class 12; Frequency: 1880 MHz; Duty Cycle: 1:2.075

* Medium parameters used: $\sigma = 1.54157$ mho/m, $\epsilon_r = 51.1676$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 661 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.709 mW/g

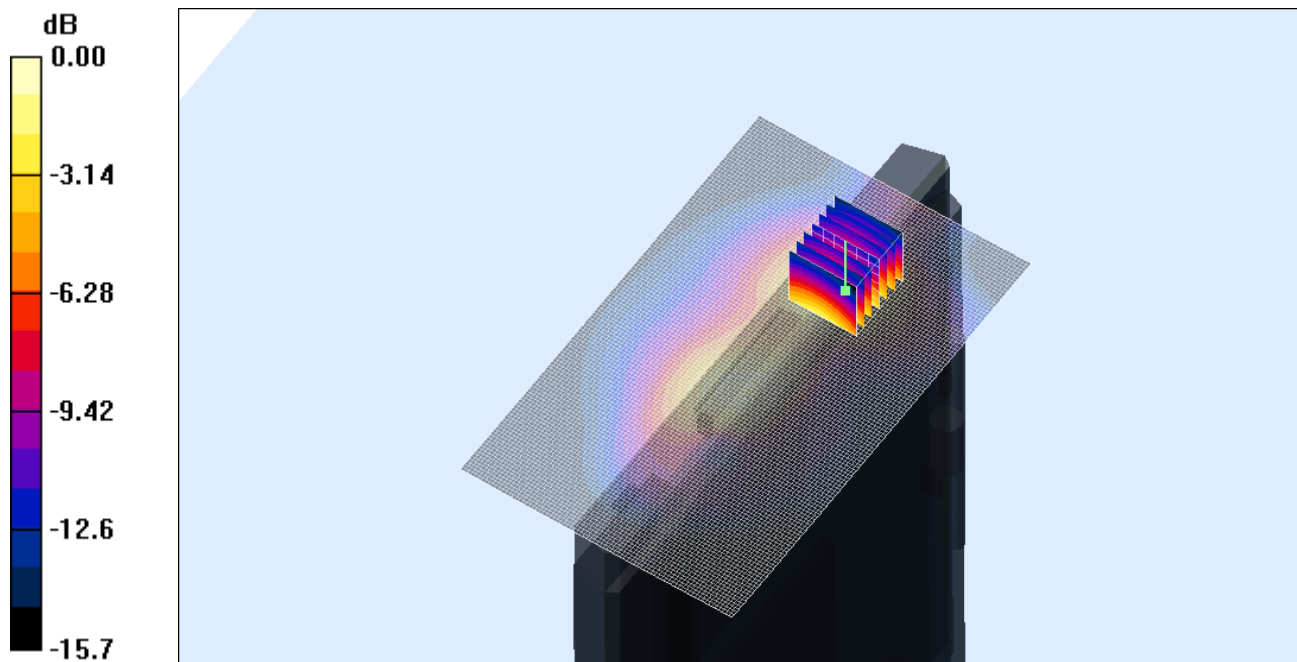
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.2 V/m; Power Drift = 0.073 dB

Peak SAR (extrapolated) = 0.980 W/kg

SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.372 mW/g

Maximum value of SAR (measured) = 0.687 mW/g



0 dB = 0.687mW/g

SAR MEASUREMENT PLOT 25

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

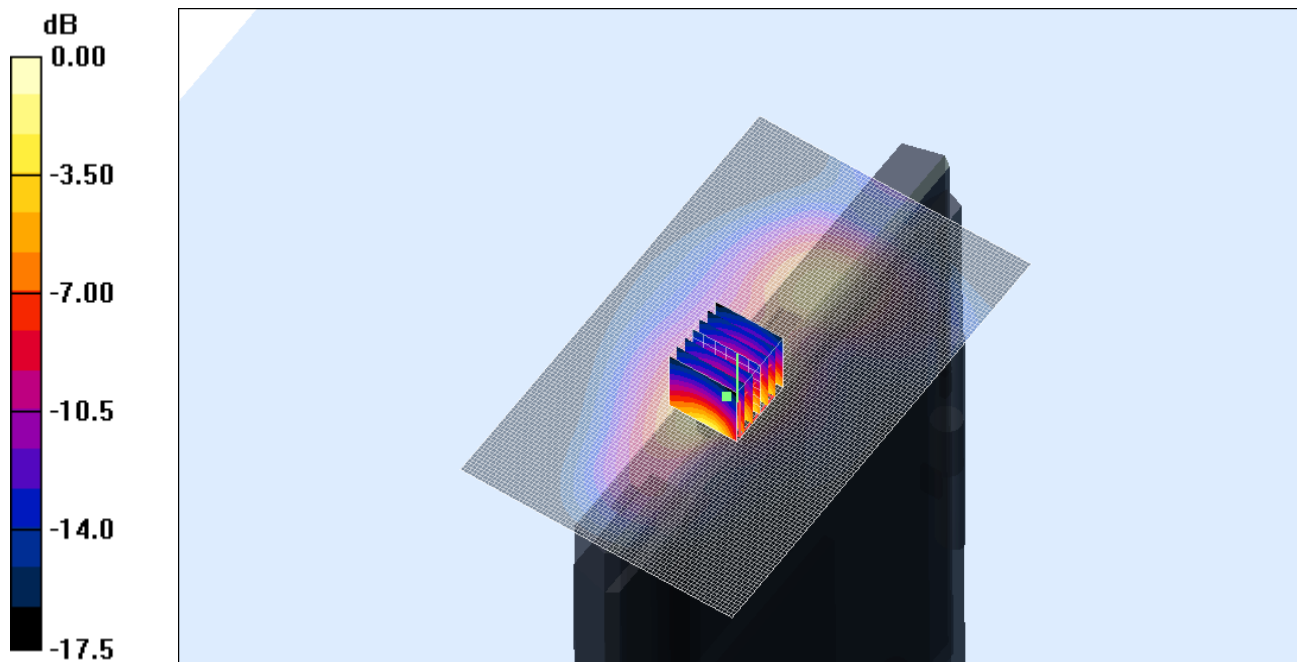
File Name: Edge On Right 1900 MHz GPRS Class 12 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

- * Communication System: 850MHz 1900 MHz GPRS Class 12; Frequency: 1909.8 MHz; Duty Cycle: 1:2.075
- * Medium parameters used: $\sigma = 1.55816$ mho/m, $\epsilon_r = 51.0717$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 810 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.898 mW/g

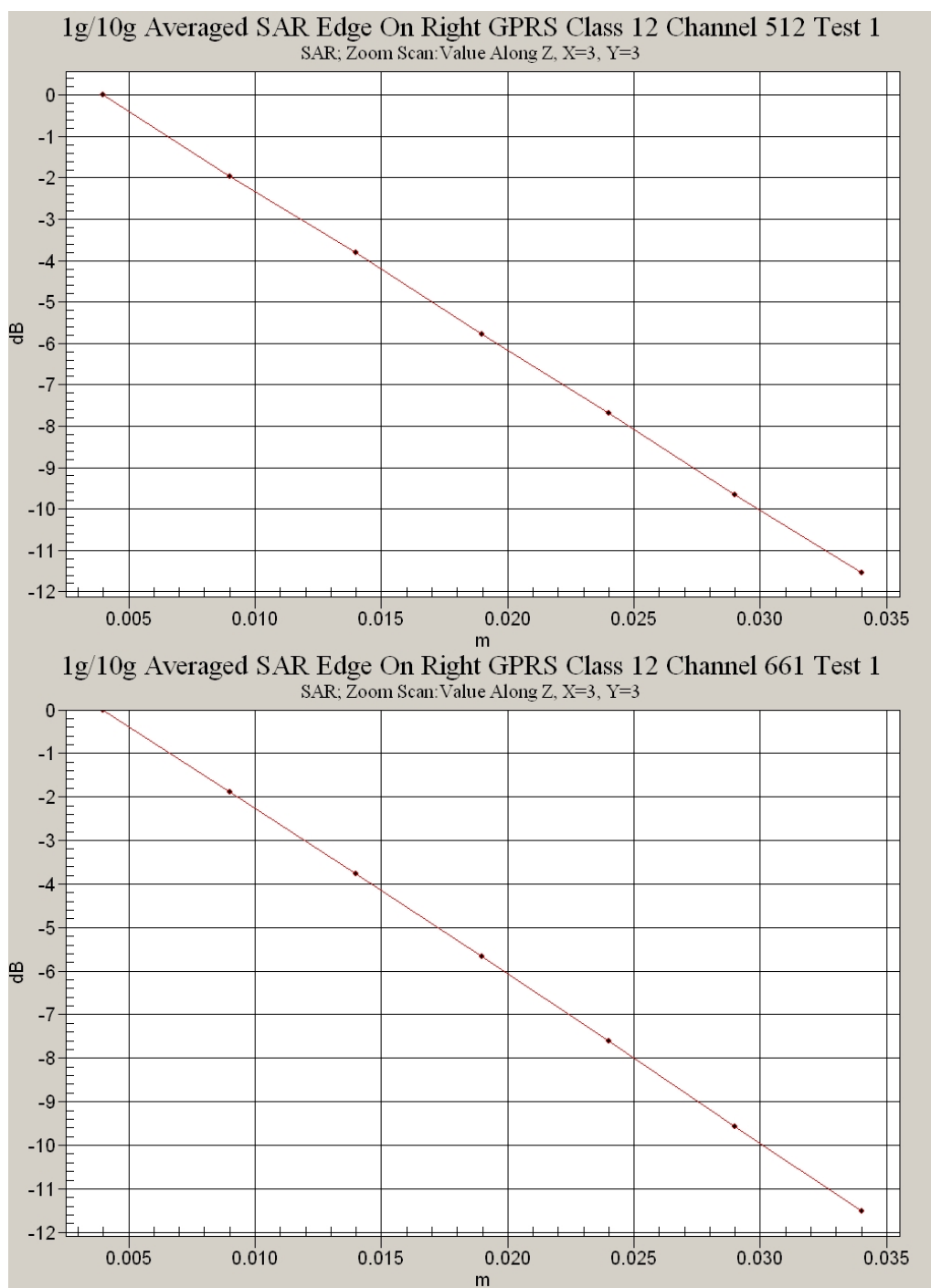
Channel 810 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.8 V/m; Power Drift = -0.123 dB
Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.869 mW/g; SAR(10 g) = 0.448 mW/g
Maximum value of SAR (measured) = 0.972 mW/g

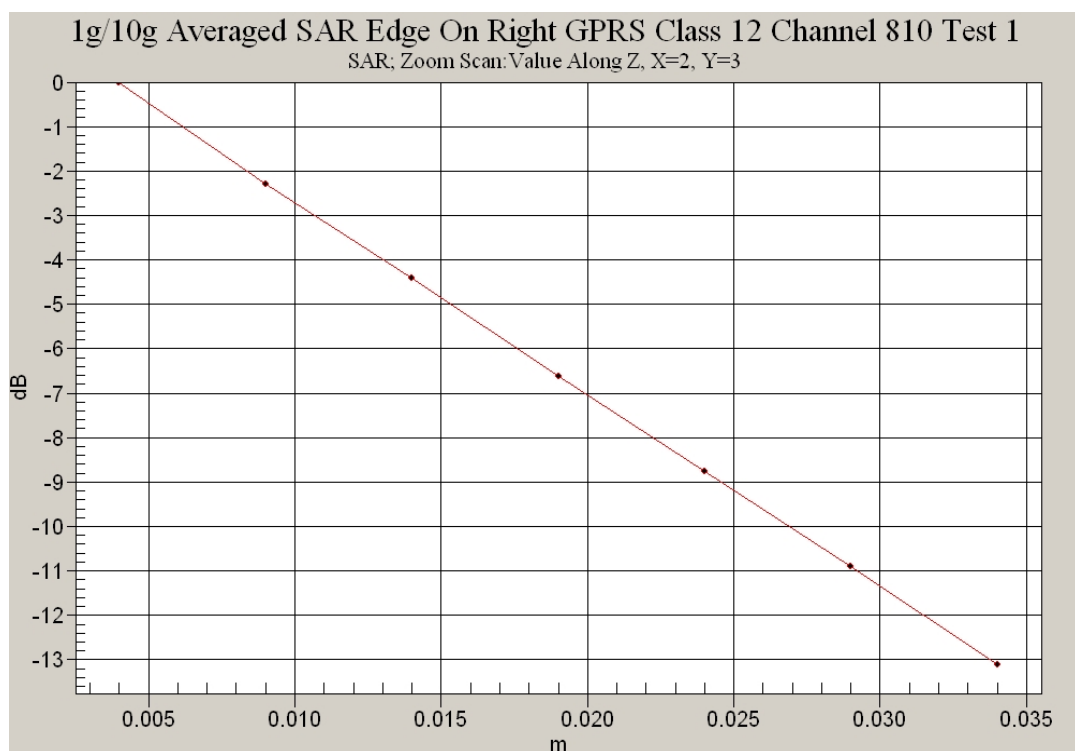


SAR MEASUREMENT PLOT 26

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %





Test Date: 24 November 2007

File Name: Edge On Right 1900 MHz EGPRS Class 12 Champlain 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

* Communication System: 850MHz 1900 MHz EGPRS Class 12; Frequency: 1909.8 MHz; Duty Cycle: 1:2.075

* Medium parameters used: $\sigma = 1.55816$ mho/m, $\epsilon_r = 51.0717$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 810 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.503 mW/g

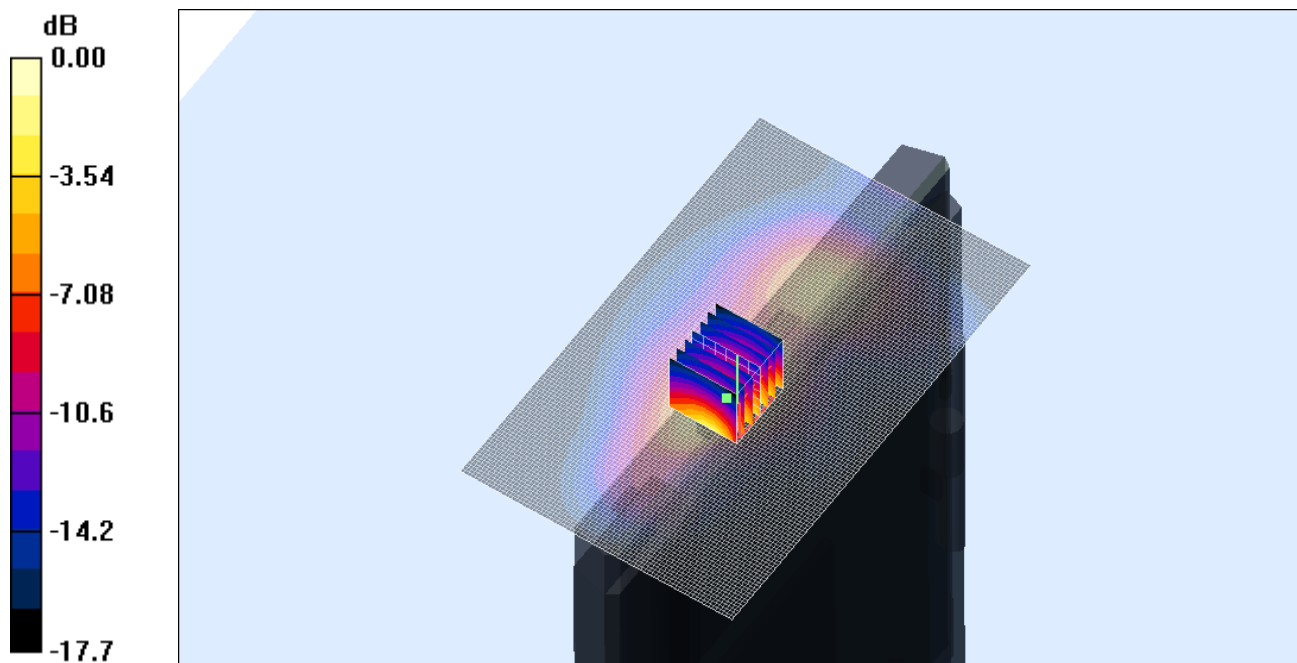
Channel 810 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.0 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.889 W/kg

SAR(1 g) = 0.492 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.557 mW/g



0 dB = 0.557mW/g

SAR MEASUREMENT PLOT 27

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

Test Date: 24 November 2007

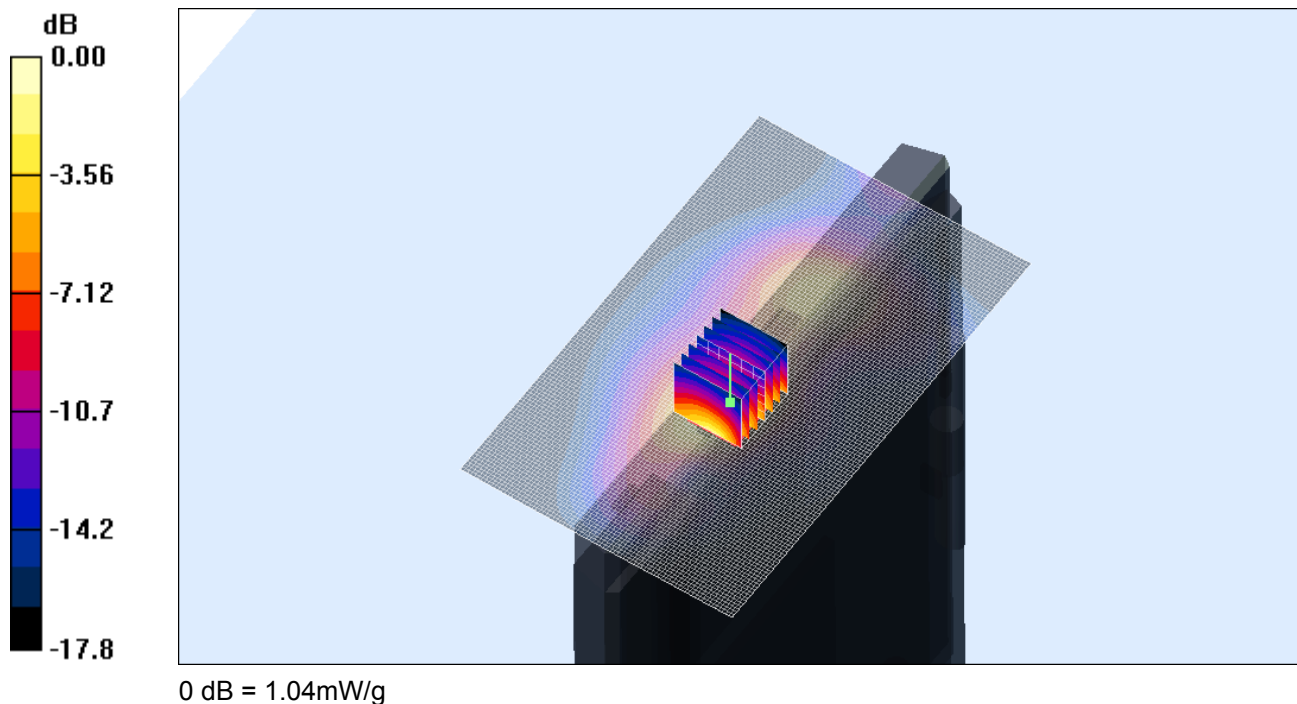
File Name: Edge On Right 1900 MHz GPRS Class 12 Champlain WiFi On 24-11-07.da4

DUT: Fujitsu Tablet Champlain with Sierra GSM/UMTS Module; Type: MC8781; Serial: IMEI:354220010021398

- * Communication System: 850MHz 1900 MHz GPRS Class 12; Frequency: 1909.8 MHz; Duty Cycle: 1:2.075
- * Medium parameters used: $\sigma = 1.55816$ mho/m, $\epsilon_r = 51.0717$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1377; ConvF(4.74, 4.74, 4.74)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 810 Test/Area Scan (81x131x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.876 mW/g

Channel 810 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.9 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 1.66 W/kg
SAR(1 g) = 0.927 mW/g; SAR(10 g) = 0.480 mW/g
Maximum value of SAR (measured) = 1.04 mW/g



SAR MEASUREMENT PLOT 28

Ambient Temperature
Liquid Temperature
Humidity

22.0 Degrees Celsius
21.7 Degrees Celsius
53.0 %

