8 SAR MEASURMENT RESULTS

8.1 CELL BAND

The following modes were chosen based on conducted output power measurement results and previous CCS project # 07U11027.

8.1.1 PANASONIC CF-29

8.1.1.1 **POSITION 1**

| - | | | | |
|-------------------------------------|------------------------------------|---------------------------|---------------------|---------------------------------------------|
| | | | | |
| | | | | |
| GPRS 2 Slots Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) |
| | | | | - |
| Channel 128 192 251 | f (MHz) 824.20 | 1g (mW/g) | (dB) | 1g (mW/g) |
| Channel 128 192 | f (MHz) 824.20 837.00 | 1g (mW/g) | (dB) | 1g (mW/g) |

3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.1.1.2 **POSITION 2**

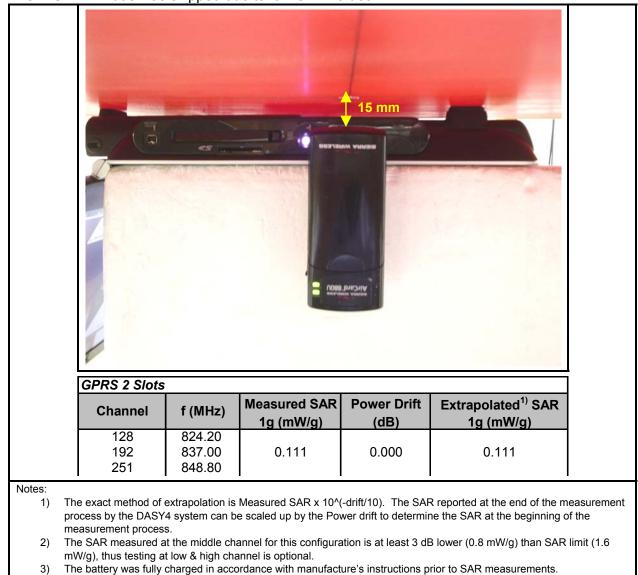
| GPRS 2 Slots | | | | |
|-------------------------|-------------------|---------------------------|---------------------|---------------------------------------------|
| Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) |
| 128 | 824.20 | .9(9) | (42) | .9 (|
| 192 | 837.00 | 0.554 | 0.000 | 0.554 |
| | | | | |
| 251 | 848.80 | | | |
| | 848.80 | | | |
| 251 WCDMA Channel | 848.80 f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) |
| 251 WCDMA | | | | |
| 251 WCDMA Channel | f (MHz) | | | |
| 251 WCDMA Channel | f (MHz) | | | |

mW/g), thus testing at low & high channel is optional.The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.1.2 TOSHIBA SATELLITE

8.1.2.1 VERTICAL

The WCDMA mode was skipped due to low SAR values.



8.1.2.2 HORIZONTAL

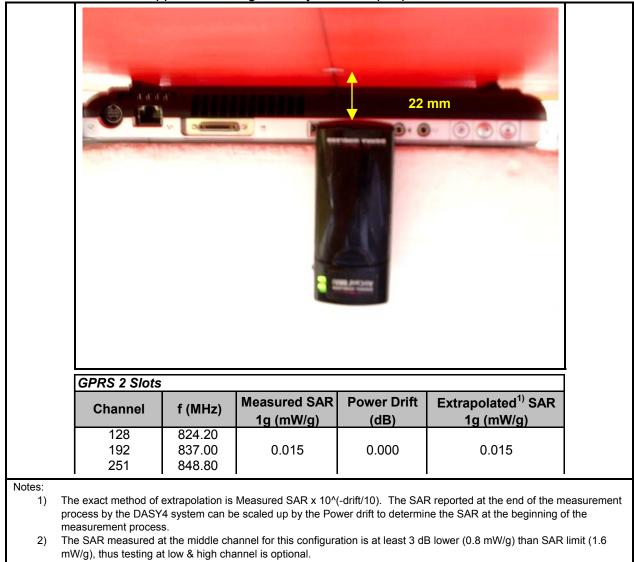
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| GPRS 2 Slots | | | | |
| GPRS 2 Slots | | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR |
| Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) |
| Channel 128 | f (MHz) 824.20 | 1g (mW/g) | (dB) | 1g (mW/g) |
| Channel 128 192 | f (MHz) 824.20 837.00 | | | |
| Channel 128 192 251 | f (MHz) 824.20 | 1g (mW/g) | (dB) | 1g (mW/g) |
| Channel 128 192 | f (MHz) 824.20 837.00 | 1g (mW/g) 0.562 | (dB) 0.000 | 1g (mW/g) 0.562 |
| Channel 128 192 251 | f (MHz) 824.20 837.00 | 1g (mW/g) 0.562 Measured SAR | (dB) 0.000 Power Drift | 1g (mW/g) 0.562 Extrapolated ¹⁾ SAR |
| Channel 128 192 251 WCDMA Channel | f (MHz) 824.20 837.00 848.80 f (MHz) | 1g (mW/g) 0.562 | (dB) 0.000 | 1g (mW/g) 0.562 |
| Channel 128 192 251 WCDMA Channel 4132 | f (MHz) 824.20 837.00 848.80 f (MHz) 826.40 | 1g (mW/g) 0.562 Measured SAR 1g (mW/g) | (dB) 0.000 Power Drift (dB) | 1g (mW/g) 0.562 Extrapolated ¹⁾ SAR 1g (mW/g) |
| Channel 128 192 251 WCDMA Channel 4132 4182 | f (MHz) 824.20 837.00 848.80 f (MHz) 826.40 836.40 | 1g (mW/g) 0.562 Measured SAR | (dB) 0.000 Power Drift | 1g (mW/g) 0.562 Extrapolated ¹⁾ SAR |
| Channel 128 192 251 WCDMA Channel 4132 | f (MHz) 824.20 837.00 848.80 f (MHz) 826.40 | 1g (mW/g) 0.562 Measured SAR 1g (mW/g) | (dB) 0.000 Power Drift (dB) | 1g (mW/g) 0.562 Extrapolated ¹⁾ SAR 1g (mW/g) |

3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.1.3 COMPAQ PRESARIO

8.1.3.1 VERTICAL

WCDMA mode was skipped due to significantly lower output power



3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.1.3.2 HORIZONTAL

| | | | | 12 mm | | |
|----------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------|
| | GPRS 2 Slots Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |
| | 128 192 251 | 824.20 837.00 848.80 | 0.243 | -0.091 | 0.248 | |
| | WCDMA | 010.00 | | | | 1 |
| | Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |
| | 4132 | 826.40 | | | |] |
| | 4182 4233 | 836.40 846.60 | 0.150 | -0.074 | 0.153 | |
| pi m 2) T m | rocess by the DASY neasurement process he SAR measured a nW/g), thus testing a | 4 system can b s. at the middle ch t low & high ch | be scaled up by the Por nannel for this configura annel is optional. | wer drift to determination is at least 3 dl | R reported at the end of the n ne the SAR at the beginning B lower (0.8 mW/g) than SAR rrior to SAR measurements. | of the |

3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.2 PCS BAND

The following modes were chosen based on conducted output power measurement results and previous CCS project # 07U11027.

8.2.1 PANASONIC CF-29

8.2.1.1 **POSITION 1**

| | - | - | | | | |
|--------|-----------------------------------------|-------------------------------------------------|---------------------------|---------------------|---------------------------------------------|--|
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| | 1 | 1 X | | | | |
| | - | | | | | |
| | GPRS 4 Slots | ; | | | | |
| | Channel | f (MHz) | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR | |
| | | | 1g (mW/g) | (dB) | 1g (mW/g) | |
| | 512 | 1850.20 | | | | |
| | | | | | | |
| | 661 | 1880.00 | 0.738 | 0.000 | 0.738 | |
| | 810 | 1880.00 1909.80 | 0.738 | 0.000 | 0.738 | |
| | | | | | | |
| | 810 | | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR | |
| | 810 WCDMA Channel | 1909.80 f (MHz) | | | | |
| | 810 WCDMA Channel 9262 | 1909.80 f (MHz) 1852.40 | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |
| | 810 WCDMA Channel 9262 9400 | 1909.80 f (MHz) 1852.40 1880.00 | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR | |
| | 810 WCDMA Channel 9262 | 1909.80 f (MHz) 1852.40 | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |
| lotes: | 810 WCDMA Channel 9262 9400 | 1909.80 f (MHz) 1852.40 1880.00 | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

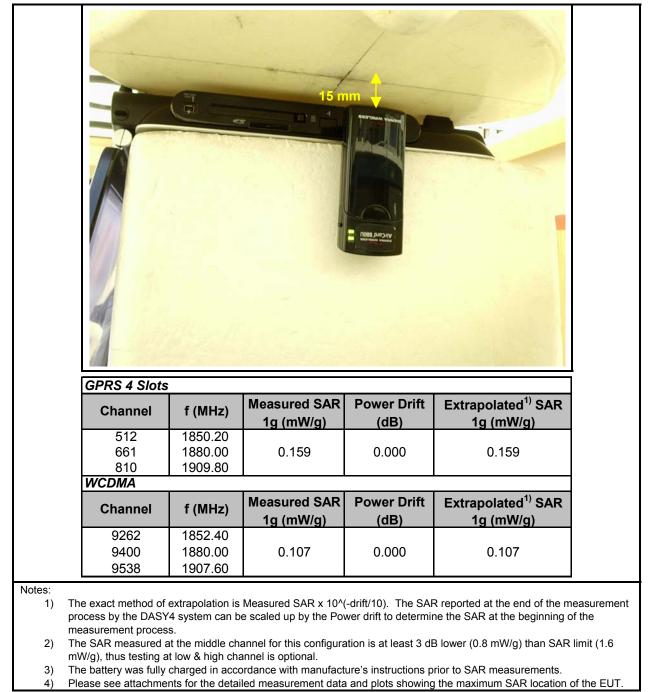
8.2.1.2 POSITION 2

| | | | 7 mm | | | |
|--------------------|-------------------------------------|------------------------------------------|----------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------|--------|
| | GPRS 4 Slots Channel | f (MHz) | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR | |
| | | | 1g (mW/g) | (dB) | 1g (mW/g) | |
| | 512 661 810 | 1850.20 1880.00 1909.80 | 0.652 | 0.000 | 0.652 | |
| | WCDMA | | • | | | |
| | Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |
| | 9262 9400 9538 | 1852.40 1880.00 1907.60 | 0.371 | 0.000 | 0.371 | |
| pro me 2) Th | ocess by the DASY easurement proces | 4 system can b s. at the middle ch | e scaled up by the Pov annel for this configura | wer drift to determin | R reported at the end of the m ne the SAR at the beginning o 3 lower (0.8 mW/g) than SAR | of the |

3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.2.2 TOSHIBA SATELLITE

8.2.2.1 VERTICAL



8.2.2.2 HORIZONTAL

| | | | | | - | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------|-----------------------|
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| | GPRS 4 Slots | 5 1 | Manager of CAD | Dower Driff | | |
| | GPRS 4 Slots Channel | f (MHz) | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR |] |
| | Channel 512 | f (MHz) 1850.20 | Measured SAR 1g (mW/g) | Power Drift (dB) | 1g (mW/g) | |
| | Channel 512 661 | f (MHz) 1850.20 1880.00 | | | - | |
| | Channel 512 661 810 | f (MHz) 1850.20 | 1g (mW/g) | (dB) | 1g (mW/g) | |
| | Channel 512 661 | f (MHz) 1850.20 1880.00 | 1g (mW/g) 0.470 | (dB) 0.000 | 1g (mW/g) 0.470 | |
| | Channel 512 661 810 | f (MHz) 1850.20 1880.00 | 1g (mW/g) 0.470 Measured SAR | (dB) 0.000 Power Drift | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR | |
| | Channel 512 661 810 WCDMA Channel | f (MHz) 1850.20 1880.00 1909.80 f (MHz) | 1g (mW/g) 0.470 | (dB) 0.000 | 1g (mW/g) 0.470 | |
| | Channel 512 661 810 WCDMA Channel 9262 | f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 | 1g (mW/g) 0.470 Measured SAR 1g (mW/g) | (dB) 0.000 Power Drift (dB) | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR 1g (mW/g) | |
| | Channel 512 661 810 WCDMA Channel 9262 9400 | f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 1880.00 | 1g (mW/g) 0.470 Measured SAR | (dB) 0.000 Power Drift | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR | |
| | Channel 512 661 810 WCDMA Channel 9262 | f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 | 1g (mW/g) 0.470 Measured SAR 1g (mW/g) | (dB) 0.000 Power Drift (dB) | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR 1g (mW/g) | |
| | Channel 512 661 810 WCDMA WCDMA 9262 9400 9538 | f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 1880.00 1907.60 | 1g (mW/g) 0.470 Measured SAR 1g (mW/g) 0.288 | (dB) 0.000 Power Drift (dB) 0.000 | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR 1g (mW/g) | - - - - - |
| pro | Channel 512 661 810 WCDMA Channel 9262 9400 9538 e exact method of pocess by the DASY | f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 1880.00 1907.60 extrapolation is Y4 system can be | 1g (mW/g) 0.470 Measured SAR 1g (mW/g) 0.288 Measured SAR x 10^(| (dB) 0.000 Power Drift (dB) 0.000 | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR 1g (mW/g) 0.288 | |
| 1) Th pro me | Channel 512 661 810 WCDMA Channel 9262 9400 9538 e exact method of pocess by the DAS easurement proces | f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 1880.00 1907.60 extrapolation is Y4 system can biss. | 1g (mW/g) 0.470 Measured SAR 1g (mW/g) 0.288 Measured SAR x 10^(re scaled up by the Power | (dB) 0.000 Power Drift (dB) 0.000 | 1g (mW/g) 0.470 Extrapolated ¹⁾ SAR 1g (mW/g) 0.288 | of the |

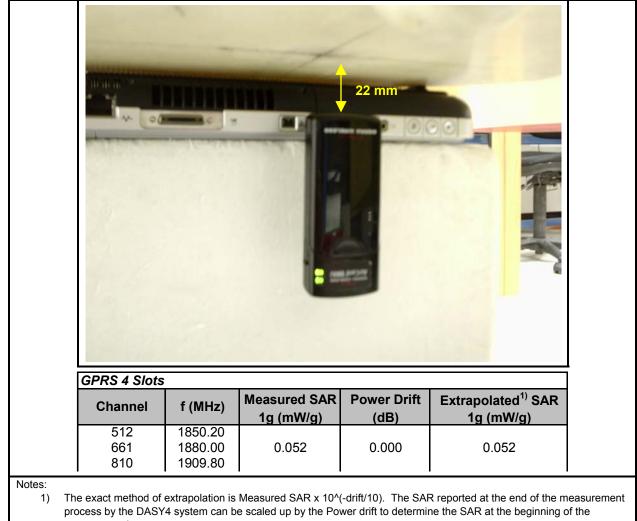
3)

The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements. Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT. 4)

8.2.3 **COMPAQ PRESARIO**

8.2.3.1 VERTICAL

WCDMA mode in the following position was skipped due to low SAR values.



measurement process.

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional.

3) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

8.2.3.2 HORIZONTAL

| GPRS 4 Slots | | Measured CAD | Dower Drift | | |
|--------------|--------------------|---------------------------|---------------------|---------------------------------------------|--|
| Channel | f (MHz) | Measured SAR 1g (mW/g) | Power Drift (dB) | Extrapolated ¹⁾ SAR 1g (mW/g) | |
| 512 | 1850.20 | | | | |
| 661 810 | 1880.00 | 0.375 | 0.000 | 0.375 | |
| 810 WCDMA | 1909.80 | | | | |
| | | Measured SAR | Power Drift | Extrapolated ¹⁾ SAR | |
| Channel | f (MHz) | | (dB) | 1g (mW/g) | |
| 9262 | 1852.40 | 1g (mW/g) | (dB) | 1g (mW/g) | |
| 9262 9400 | 1852.40 1880.00 | | (dB) 0.000 | 1g (mW/g) 0.233 | |
| 9262 | 1852.40 | 1g (mW/g) | | | |

mW/g), thus testing at low & high channel is optional.

7) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

11 PHOTOS

EUT





Host Device - Compaq





Host Device – Panasonic





Host Device - Toshiba



