8 SAR MEASURMENT RESULTS

A preliminary test is performed on secondary landscape position for both antennas, Foxconn and WNC, to determine which antenna produces the worst SAR. The Notebook PC with Foxconn antenna produces 0.555 mW/g of SAR while the notebook PC with WNC antenna produces 0.999 mW/g of SAR for same setting and configuration. Thus, the remaining tests are done on notebook PC with WNC antenna.

8.1 PRELIMINARY TESTS - SECONDARY LANDSCAPE

	C C			
With I	Foxconn Ant	enna	With W	NC Antenna
Foxconn - 802	2.11b (1Mbp	s)		
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
1 6 11	2412 2437 2462	0.538	-0.138	0.555
WNC - 802.11	b (1Mbps)		Į	
	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Channel				

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

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) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

PRIMARY LANDSCAPE 8.2



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.

Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT. 3)

8.3 SECONDARY LANDSCAPE

	07/10887		WLAN Mair SAMSUNG	Antenna Natenna		
	802.11b (1Mb)	os)				Ī
			Measured SAR	Power Drift	Extrapolated ¹⁾ SAR	
	Channel	f (MHz)	1g (mW/g)	(dB)	1g (mW/g)	
	1	2412	0.656	-0.105	0.672	
	6	2437	0.999	0.000	0.999	
	11	2462	1.120	-0.138	1.156	
	802.11g (6 Mb	ps)			1)	
	Oharri	£ (8411-)	Measured SAR	Power Drift	Extrapolated "SAR	
			1g (mw/g)	(aB)	1g (mw/g)	
		2412	0.837	-0.198	0.876	
	6	2437	1.290	-0.185	1 .340	
	11 • 4)	2462	1.070	-0.118	1.099	
	6 7	2437	1.320	-0.109	1.354	
Notes: 1) Th pro- me 2) Th m\	e exact method of ocess by the DASY easurement process e SAR measured a V/g), thus testing a	extrapolation is 4 system can b s. It the middle ch t low & high cha	Measured SAR x 10^(e scaled up by the Pov annel for this configura annel is optional.	-drift/10). The SAF wer drift to determination is at least 3 df	R reported at the end of the m ne the SAR at the beginning o 3 lower (0.8 mW/g) than SAR	neasurement of the limit (1.6

Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.
Collocation with Bluetooth module.

8.4 PRIMARY PORTRAIT

		SMARRA			Iain Antenna	
			Measured SAR	Power Drift	Extrapolated ¹⁾ SAR	
	Channel	f (MHz)	1g (mW/g)	(dB)	1g (mW/g)	
	1	2412	0.000	0.000	0.000	
	6 11	2437	0.009	0.000	0.009	
	11 802 11a (6 Mb	2402				
	552.11g (6 Mb	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Massurad SAP	Power Drift	Extrapolated ¹⁾ SAP	
	Channel	f (MHz)	1a (mW/a)	(dB)		
	1	2412	.9 (.9 (
	6	2437	0.010	0.000	0.010	
	11	2462			0.0.0	
Notes: 1) The pro me	e exact method of ocess by the DASY easurement process	extrapolation is 4 system can b s.	Measured SAR x 10^(e scaled up by the Pov	(-drift/10). The SAF wer drift to determin	R reported at the end of the m ne the SAR at the beginning o	neasurement of the

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) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

8.5 SECONDARY PORTRAIT

WLA	N Main Ante	enna V		
-		3333 (1080	
302.11b (1Mb	ps)			
802.11b (1Mb Channel	ps) f (MHz)	Measured SAR	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
802.11b (1Mb Channel 1 6 11	f (MHz) 2412 2437 2462	Measured SAR 1g (mW/g) 0.054	Power Drift (dB) 0.000	Extrapolated ¹⁾ SAR 1g (mW/g) 0.054
802.11b (1Mk Channel 1 6 11 302.11g (6 Mi	f (MHz) 2412 2437 2462 bps)	Measured SAR 1g (mW/g) 0.054	Power Drift (dB) 0.000	Extrapolated ¹⁾ SAR 1g (mW/g) 0.054
802.11b (1Mk Channel 1 6 11 302.11g (6 Mi Channel	f (MHz) 2412 2437 2462 bps) f (MHz)	Measured SAR 1g (mW/g) 0.054 Measured SAR 1g (mW/g)	Power Drift (dB) 0.000 Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g) 0.054 Extrapolated ¹⁾ SAR 1g (mW/g)

ıg ıĻ Dy g 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) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

8.6 LAP- HELD

		O () = 1 (1)	52	
		-	WLAN Main	Antenna
802.11b (1Mb	pps)			
802.11b (1Mb Channel	pps) f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
802.11b (1Mb Channel 1 6	pps) f (MHz) 2412 2437	Measured SAR 1g (mW/g) 0.122	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g) 0 122
802.11b (1Mt Channel 1 6 11	f (MHz) 2412 2437 2462	Measured SAR 1g (mW/g) 0.122	Power Drift (dB) 0.000	Extrapolated ¹⁾ SAR 1g (mW/g) 0.122
802.11b (1Mk Channel 1 6 11 802.11g (6 M	f (MHz) f (MHz) 2412 2437 2462 bps)	Measured SAR 1g (mW/g) 0.122	Power Drift (dB) 0.000	Extrapolated ¹⁾ SAR 1g (mW/g) 0.122
802.11b (1Mb Channel 1 6 11 802.11g (6 M	pps) f (MHz) 2412 2437 2462 bps) f (MHz)	Measured SAR 1g (mW/g) 0.122 Measured SAR 1g (mW/g)	Power Drift (dB) 0.000 Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g) 0.122 Extrapolated ¹⁾ SAR 1g (mW/g)
802.11b (1Mk Channel 1 6 11 802.11g (6 Ma Channel 1	f (MHz) 2412 2437 2462 bps) f (MHz) 2412	Measured SAR 1g (mW/g) 0.122 Measured SAR 1g (mW/g)	Power Drift (dB) 0.000 Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g) 0.122 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) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

11 PHOTOS

Notebook PC



Notebook PC



WLAN







WLAN & Antenna Location







Foxconn

