

COMOSAR Dipole 835 MHz Calibration Report



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Issue: B

Date: 2011/09/23

DIPOLE 835 MHZ CALIBRATION REPORT

Prepared By: LUC Jérôme, SATIMO

Project Description: SAR TEST BENCH

Prepared For (End User): Shenzhen Morlab Communication Technology

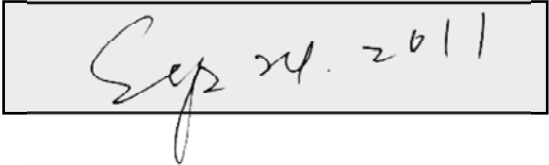
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DIPOLE 835 MHz CALIBRATION REPORT
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DATE: 19/02/2009
REFERENCE: SN 36/08 DIP99
OBJECT: COMOSAR IEEE REFERENCE DIPOLE
MANUFACTURER: SATIMO
SERIAL NUMBER: SN 36/08 DIP99
CUSTOMER: Shenzhen Morlab Communication Technology
CONTRACT: PF2130108b_SAR_Morlab
DATE OF CALIBRATION: 23/09/2011

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Date


SAR TEAM MANAGER


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 29200 BREST

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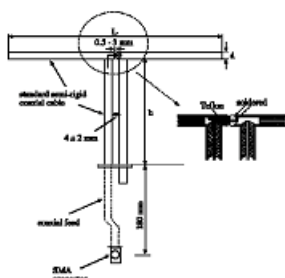
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PRODUCT DESCRIPTION



Dimension: L=161 mm/ h=89.8mm / d=3.6 mm

CALIBRATION TEST EQUIPMENT

TYPE	IDENTIFICATION	DATE OF CALIBRATION
Vector Network Analyzer	HP8753D (SN: 5410A08882)	10-05-2011

MEASUREMENT PROCEDURE

We placed the dipole under the flat part of SAM phantom fill with 835 MHz head liquid.

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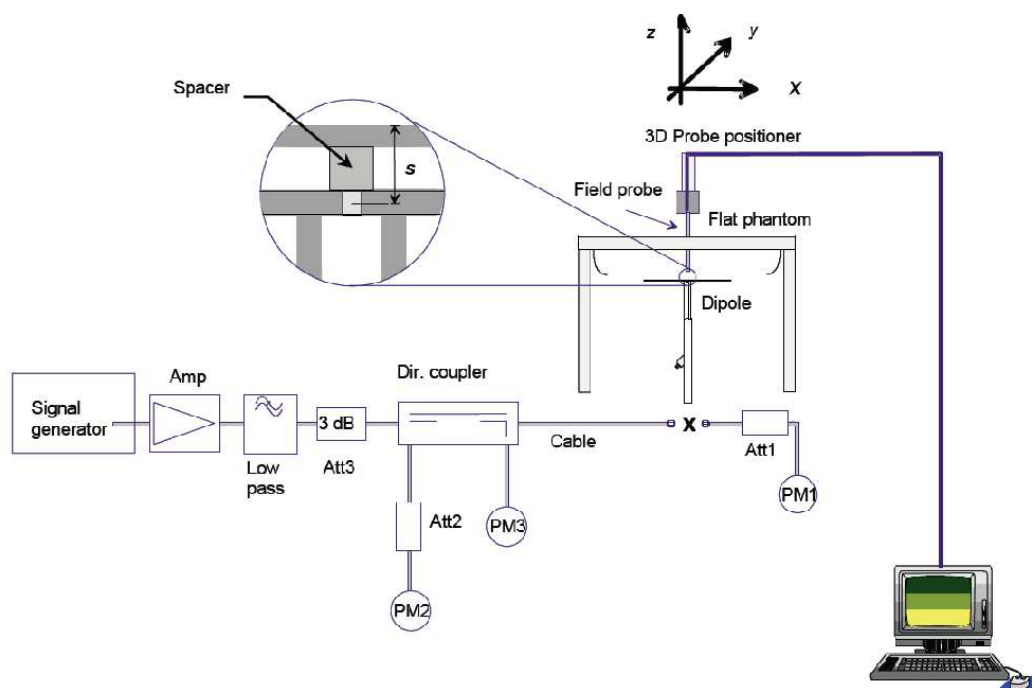


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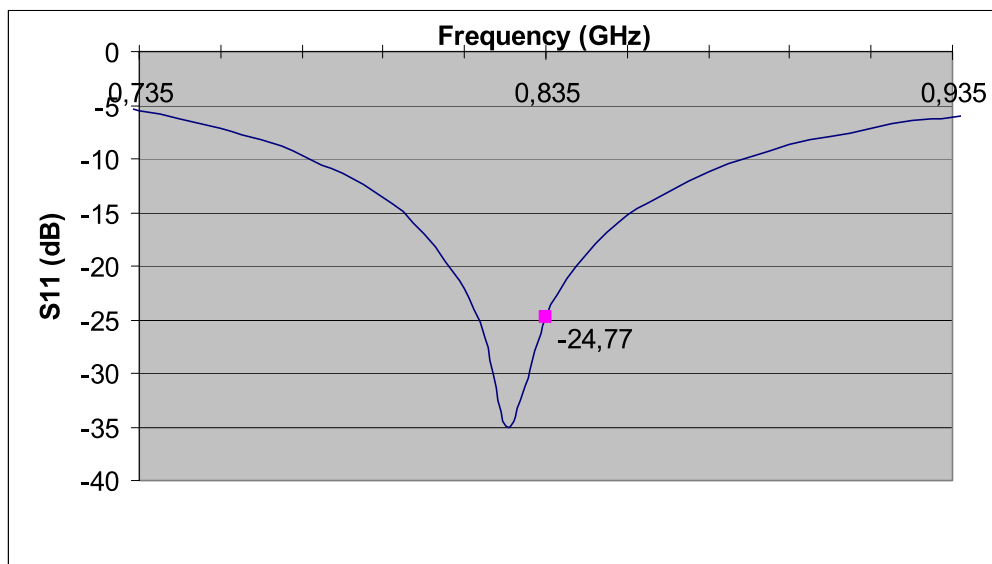
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Calibration was performed according to IEEE Std P1528-2003 and OET bulletin 65 Supplement C (Ed. 01-01)

VSWR at 835 MHz: -24.77 dB.



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SAR MEASUREMENT EQUIPEMENT

Voltmeter	Keithley (2000, SN:1000572)	Date of calibration: 01-07-2011
Signal generator	Rohde&Schwarz (SML_03, SN:101868)	Date of calibration: 15-11-2010
Power amplifier	Nuclétudes (ALB216, SN:10800)	Date of calibration: 24-10-2010
Power meter	Rohde&Schwarz (NRVD, SN:101066)	Date of calibration: 04-07-2011
Probe	SATIMO Bretagne (SN:EP37) CF (30.41,29.18,32.33)	Date of calibration: 19-06-2011

SAR MEASUREMENT CONDITION

Software	OpenSAR V3
Phantom	SATIMO Bretagne (SN: SN_20_07_SAM42)
Liquid	SATIMO Bretagne (Last Calibration: 23 09 11) Head Liquid Values: eps' : 41,40 sigma : 0,884
Distance between the center of the dipole and the liquid (set with a spacer)	15 mm
Area scan resolution	dx=8mm/dy=8mm
Zoom scan resolution	dx=8mm/dy=8m/dz=5mm
Frequency	835 MHz
Input power	30 dBm
Expanded uncertainty (K=1)	8.09%

SAR MEASUREMENT RESULT

	10g	1g
SAR measured	6,257 W/Kg	9,714 W/Kg
Liquid : HL	+ 0,92 %	+ 2,25 %
Input power : 1W		

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SAR MEASUREMENT PLOTS

