Reference No.: WTD22D03048052W001



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.176.7.14.SATU.B

Field probe linearity	3.00%	Rectangular	$\sqrt{3}$	1	1.732%
Combined standard uncertainty					5.831%
Expanded uncertainty 95 % confidence level k = 2					12.0%

5 CALIBRATION MEASUREMENT RESULTS

Calibration Parameters	
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

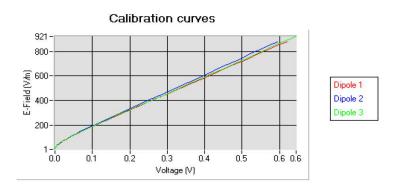
5.1 <u>SENSITIVITY IN AIR</u>

Normx dipole		
$1 \left(\mu V / (V/m)^2 \right)$	$2 (\mu V/(V/m)^2)$	$3 (\mu V/(V/m)^2)$
6.20	5.89	6.85

DCP dipole 1	DCP dipole 2	DCP dipole 3
(mV)	(mV)	(mV)
92	90	90

Calibration curves ei=f(V) (i=1,2,3) allow to obtain H-field value using the formula:

$$E = \sqrt{{E_1}^2 + {E_2}^2 + {E_3}^2}$$



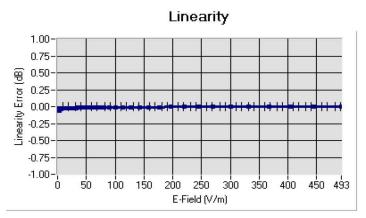
Page: 6/9



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.176.7.14.SATU.B

5.2 <u>LINEARITY</u>



Linearity: I+/-1.49% (+/-0.07dB)

5.3 <u>SENSITIVITY IN LIQUID</u>

Liquid	Frequency	Permittivity	Epsilon (S/m)	<u>ConvF</u>
8000	(MHz +/-	**	1200 20 12	
	<u>100MHz)</u>			
HL750	750	40.03	0.93	4.61
BL750	750	56.83	1.00	4.79
HL850	835	42.59	0.90	4.93
BL850	835	53.19	0.97	5.07
HL900	900	42.05	0.98	4.65
BL900	900	56.41	1.08	4.83
HL1800	1800	41.82	1.38	4.01
BL1800	1800	53.00	1.52	4.16
HL1900	1900	40.38	1.41	4.63
BL1900	1900	53.93	1.55	4.78
HL2000	2000	40.12	1.43	4.16
BL2000	2000	53.65	1.54	4.25
HL2450	2450	38.34	1.80	4.00
BL2450	2450	52.70	1.94	4.11
HL2600	2600	38.16	1.93	3.92
BL2600	2600	51.55	2.21	4.07

LOWER DETECTION LIMIT: 8mW/kg

Page: 7/9



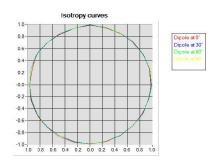
COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.176.7.14.SATU.B

5.4 <u>ISOTROPY</u>

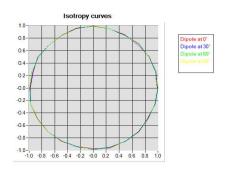
HL900 MHz

- Axial isotropy: 0.04 dB - Hemispherical isotropy: 0.06 dB



HL1800 MHz

- Axial isotropy: 0.04 dB - Hemispherical isotropy: 0.07 dB



Page: 8/9



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.176.7.14.SATU.B

6 LIST OF EQUIPMENT

	Equipment Summary Sheet					
Equipment Manufacturer / Description Model		Identification No.	Current Calibration Date	Next Calibration Date		
Flat Phantom	MVG	SN-20/09-SAM71	Validated. No cal required.	Validated. No cal required.		
COMOSAR Test Bench	Version 3	NA	Validated. No cal required.	Validated. No cal required.		
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/2019	02/2022		
Reference Probe	MVG	EP 94 SN 37/08	10/2019	10/2021		
Multimeter	Keithley 2000	1188656	01/2020	01/2023		
Signal Generator	Agilent E4438C	MY49070581	01/2020	01/2023		
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.		
Power Meter	HP E4418A	US38261498	01/2020	01/2023		
Power Sensor	HP ECP-E26A	US37181460	01/2020	01/2023		
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.		
Waveguide	Mega Industries	069Y7-158-13-712	Validated. No cal required.	Validated. No cal required.		
Waveguide Transition	Mega Industries	069Y7-158-13-701	Validated. No cal required.	Validated. No cal required.		
Waveguide Termination	Mega Industries	069Y7-158-13-701	Validated. No cal required.	Validated. No cal required.		
Temperature / Humidity Sensor	Control Company	150798832	11/2020	11/2023		

Page: 9/9



SAR Reference Dipole Calibration Report

Ref: ACR.94.3.20.SATU.A

WALTEK TESTING GROUP CO., LTD. NO.77, HOUJIE SECTION, GUANTAI ROAD, HOUJIE TOWN, DONGGUAN GUANGDONG 518105, CHINA MVG COMOSAR REFERENCE DIPOLE

FREQUENCY: 835 MHZ SERIAL NO.: SN 09/15 DIP 0G835-358

Calibrated at MVG US 2105 Barrett Park Dr. - Kennesaw, GA 30144



Calibration Date: 08/29/20

Summary:

This document presents the method and results from an accredited SAR reference dipole calibration performed in MVG USA using the COMOSAR test bench. All calibration results are traceable to national metrology institutions.



Ref: ACR.94.3.20.SATU.A

	Name	Function	Date	Signature
Prepared by :	Jérôme LUC	Product Manager	8/30/2020	JE
Checked by:	Jérôme LUC	Product Manager	8/30/2020	JS
Approved by :	Kim RUTKOWSKI	Quality Manager	8/30/2020	them Putthowski

	Customer Name
Distribution :	Waltek Testing Group Co.,Ltd

Issue	Date	Modifications
A	8/30/2020	Initial release

Page: 2/11



Ref: ACR.94.3.20.SATU.A

TABLE OF CONTENTS

2	Dev	ice Under Test4	
3	Prod	luct Description4	
	3.1	General Information	4
1	Mea	surement Method5	
	4.1	Return Loss Requirements	5
	4.2	Mechanical Requirements	
5	Mea	surement Uncertainty5	
	5.1	Return Loss	5
	5.2	Dimension Measurement	5
	5.3	Validation Measurement	5
ó	Cali	bration Measurement Results	
	6.1	Return Loss and Impedance In Head Liquid	6
	6.2	Return Loss and Impedance In Body Liquid	6
	6.3	Mechanical Dimensions	6
7	Vali	dation measurement	
	7.1	Head Liquid Measurement	7
	7.2	SAR Measurement Result With Head Liquid	8
	7.3	Body Liquid Measurement	9
	7.4	SAR Measurement Result With Body Liquid	
3	List	of Equipment11	

Page: 3/11



Ref: ACR.94.3.20.SATU.A

1 INTRODUCTION

This document contains a summary of the requirements set forth by the IEEE 1528, FCC KDBs and CEI/IEC 62209 standards for reference dipoles used for SAR measurement system validations and the measurements that were performed to verify that the product complies with the fore mentioned standards.

2 DEVICE UNDER TEST

Device Under Test		
Device Type	COMOSAR 835 MHz REFERENCE DIPOLE	
Manufacturer	MVG	
Model	SID835	
Serial Number	SN 09/15 DIP 0G835-358	
Product Condition (new / used)	Used	

A yearly calibration interval is recommended.

3 PRODUCT DESCRIPTION

3.1 GENERAL INFORMATION

MVG's COMOSAR Validation Dipoles are built in accordance to the IEEE 1528, FCC KDBs and CEI/IEC 62209 standards. The product is designed for use with the COMOSAR test bench only.



Figure 1 – MVG COMOSAR Validation Dipole

Page: 4/11



Ref: ACR.94.3.20.SATU.A

4 MEASUREMENT METHOD

The IEEE 1528, FCC KDBs and CEI/IEC 62209 standards provide requirements for reference dipoles used for system validation measurements. The following measurements were performed to verify that the product complies with the fore mentioned standards.

4.1 RETURN LOSS REQUIREMENTS

The dipole used for SAR system validation measurements and checks must have a return loss of -20 dB or better. The return loss measurement shall be performed against a liquid filled flat phantom, with the phantom constucted as outlined in the fore mentioned standards.

4.2 MECHANICAL REQUIREMENTS

The IEEE Std. 1528 and CEI/IEC 62209 standards specify the mechanical components and dimensions of the validation dipoles, with the dimensions frequency and phantom shell thickness dependent. The COMOSAR test bench employs a 2 mm phantom shell thickness therefore the dipoles sold for use with the COMOSAR test bench comply with the requirements set forth for a 2 mm phantom shell thickness.

5 MEASUREMENT UNCERTAINTY

All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

5.1 RETURN LOSS

The following uncertainties apply to the return loss measurement:

Frequency band	Expanded Uncertainty on Return Loss
400-6000MHz	0.1 dB

5.2 <u>DIMENSION MEASUREMENT</u>

The following uncertainties apply to the dimension measurements:

Length (mm)	Expanded Uncertainty on Length
3 - 300	0.05 mm

5.3 VALIDATION MEASUREMENT

The guidelines outlined in the IEEE 1528, FCC KDBs, CENELEC EN50361 and CEI/IEC 62209 standards were followed to generate the measurement uncertainty for validation measurements.

Scan Volume	Expanded Uncertainty
1 g	20.3 %

Page: 5/11

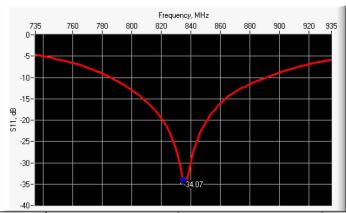


Ref: ACR.94.3.20.SATU.A

10 g	20.1 %

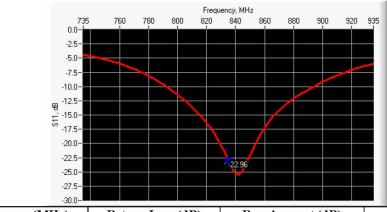
6 CALIBRATION MEASUREMENT RESULTS

6.1 <u>RETURN LOSS AND IMPEDANCE IN HEAD LIQUID</u>



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
835	-34.07	-20	$49.3 \Omega + 1.8 j\Omega$

6.2 <u>RETURN LOSS AND IMPEDANCE IN BODY LIQUID</u>



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
835	-22.96	-20	$45.3 \Omega + 5.3 i\Omega$

6.3 <u>MECHANICAL DIMENSIONS</u>

Frequency MHz	Lr	nm	h mm		d mm	
	required	measured	required	measured	required	measured
300	420.0 ±1 %.		250.0 ±1 %.		6.35 ±1 %.	

Page: 6/11



Ref: ACR.94.3.20.SATU.A

90/01/07/20	CONSTRUCTOR DONO WEST		Georges Tales et day		ANNERS NORTH TON	
450	290.0 ±1 %.		166.7 ±1 %.		6.35 ±1 %.	
750	176.0 ±1 %.		100.0 ±1 %.		6.35 ±1 %.	
835	161.0 ±1 %.	PASS	89.8 ±1 %.	PASS	3.6 ±1 %.	PASS
900	149.0 ±1 %.		83.3 ±1 %.		3.6 ±1 %.	
1450	89.1 ±1 %.		51.7 ±1 %.		3.6 ±1 %.	
1500	80.5 ±1 %.		50.0 ±1 %.		3.6 ±1 %.	
1640	79.0 ±1 %.		45.7 ±1 %.		3.6 ±1 %.	
1750	75.2 ±1 %.		42.9 ±1 %.		3.6 ±1 %.	
1800	72.0 ±1 %.		41.7 ±1 %.		3.6 ±1 %.	
1900	68.0 ±1 %.		39.5 ±1 %.		3.6 ±1 %.	
1950	66.3 ±1 %.		38.5 ±1 %.		3.6 ±1 %.	
2000	64.5 ±1 %.		37.5 ±1 %.		3.6 ±1 %.	
2100	61.0 ±1 %.		35.7 ±1 %.		3.6 ±1 %.	
2300	55.5 ±1 %.		32.6 ±1 %.		3.6 ±1 %.	
2450	51.5 ±1 %.		30.4 ±1 %.		3.6 ±1 %.	
2600	48.5 ±1 %.		28.8 ±1 %.		3.6 ±1 %.	
3000	41.5 ±1 %.		25.0 ±1 %.		3.6 ±1 %.	
3500	37.0±1 %.		26.4 ±1 %.		3.6 ±1 %.	
3700	34.7±1 %.		26.4 ±1 %.		3.6 ±1 %.	

7 VALIDATION MEASUREMENT

The IEEE Std. 1528, FCC KDBs and CEI/IEC 62209 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

7.1 <u>HEAD LIQUID MEASUREMENT</u>

Frequency MHz	Relative per	Relative permittivity (ϵ_{r}')		Conductivity (σ) S/m		
	required	measured	required	measured		
300	45.3 ±5 %		0.87 ±5 %			
450	43.5 ±5 %		0.87 ±5 %			
750	41.9 ±5 %		0.89 ±5 %			
835	41.5 ±5 %	PASS	0.90 ±5 %	PASS		
900	41.5 ±5 %		0.97 ±5 %			
1450	40.5 ±5 %		1.20 ±5 %			
1500	40.4 ±5 %		1.23 ±5 %			
1640	40.2 ±5 %		1.31 ±5 %			
1750	40.1 ±5 %		1.37 ±5 %			

Page: 7/11



Ref: ACR.94.3.20.SATU.A

·			
1800	40.0 ±5 %	1.40 ±5 %	
1900	40.0 ±5 %	1.40 ±5 %	
1950	40.0 ±5 %	1.40 ±5 %	
2000	40.0 ±5 %	1.40 ±5 %	
2100	39.8 ±5 %	1.49 ±5 %	
2300	39.5 ±5 %	1.67 ±5 %	
2450	39.2 ±5 %	1.80 ±5 %	
2600	39.0 ±5 %	1.96 ±5 %	
3000	38.5 ±5 %	2.40 ±5 %	
3500	37.9 ±5 %	2.91 ±5 %	

7.2 SAR MEASUREMENT RESULT WITH HEAD LIQUID

The IEEE Std. 1528 and CEI/IEC 62209 standards state that the system validation measurements should produce the SAR values shown below (for phantom thickness of 2 mm), within the uncertainty for the system validation. All SAR values are normalized to 1 W forward power. In bracket, the measured SAR is given with the used input power.

Software	OPENSAR V4
Phantom	SN 20/09 SAM71
Probe	SN 18/11 EPG122
Liquid	Head Liquid Values: eps': 40.0 sigma: 0.90
Distance between dipole center and liquid	15.0 mm
Area scan resolution	dx=8mm/dy=8mm
Zoon Scan Resolution	dx=8mm/dy=8mm/dz=5mm
Frequency	835 MHz
Input power	20 dBm
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

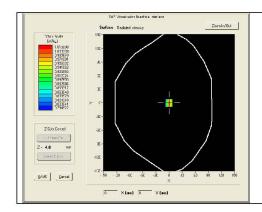
Frequency MHz	1 g SAR (W/kg/W)		10 g SAR (W/kg/W)	
	required	measured	required	measured
300	2.85		1.94	
450	4.58		3.06	
750	8.49		5.55	
835	9.56	9.58 (0.96)	6.22	6.10 (0.61)
900	10.9		6.99	
1450	29		16	
1500	30.5		16.8	
1640	34.2		18.4	
1750	36.4		19.3	
1800	38.4		20.1	

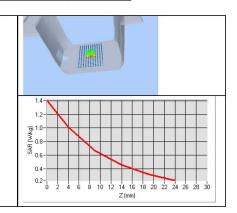
Page: 8/11



Ref: ACR.94.3.20.SATU.A

1900	39.7	20.5	
1950	40.5	20.9	
2000	41.1	21.1	
2100	43.6	21.9	
2300	48.7	23.3	
2450	52.4	24	
2600	55.3	24.6	
3000	63.8	25.7	
3500	67.1	25	
3700	67.4	24.2	





7.3 BODY LIQUID MEASUREMENT

Frequency MHz	Relative permittivity (&r')		Conductiv	ity (σ) S/m
	required	measured	required	measured
150	61.9 ±5 %		0.80 ±5 %	
300	58.2 ±5 %		0.92 ±5 %	
450	56.7 ±5 %		0.94 ±5 %	
750	55.5 ±5 %		0.96 ±5 %	
835	55.2 ±5 %	PASS	0.97 ±5 %	PASS
900	55.0 ±5 %		1.05 ±5 %	
915	55.0 ±5 %		1.06 ±5 %	
1450	54.0 ±5 %		1.30 ±5 %	
1610	53.8 ±5 %		1.40 ±5 %	
1800	53.3 ±5 %		1.52 ±5 %	
1900	53.3 ±5 %		1.52 ±5 %	
2000	53.3 ±5 %		1.52 ±5 %	
2100	53.2 ±5 %		1.62 ±5 %	

Page: 9/11



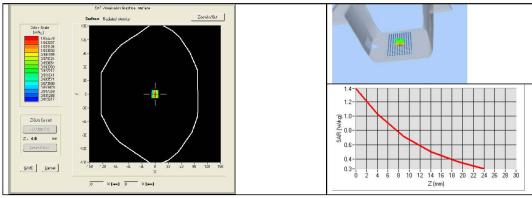
Ref: ACR.94.3.20.SATU.A

2300	52.9 ±5 %	1.81 ±5 %	
2450	52.7 ±5 %	1.95 ±5 %	
2600	52.5 ±5 %	2.16 ±5 %	
3000	52.0 ±5 %	2.73 ±5 %	
3500	51.3 ±5 %	3.31 ±5 %	
3700	51.0 ±5 %	3.55 ±5 %	
5200	49.0 ±10 %	5.30 ±10 %	
5300	48.9 ±10 %	5.42 ±10 %	
5400	48.7 ±10 %	5.53 ±10 %	
5500	48.6 ±10 %	5.65 ±10 %	
5600	48.5 ±10 %	5.77 ±10 %	
5800	48.2 ±10 %	6.00 ±10 %	

7.4 SAR MEASUREMENT RESULT WITH BODY LIQUID

Software	OPENSAR V4
Phantom	SN 20/09 SAM71
Probe	SN 18/11 EPG122
Liquid	Body Liquid Values: eps': 57.5 sigma: 0.96
Distance between dipole center and liquid	15.0 mm
Area scan resolution	dx=8mm/dy=8mm
Zoon Scan Resolution	dx=8mm/dy=8mm/dz=5mm
Frequency	835 MHz
Input power	20 dBm
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

Frequency MHz	1 g SAR (W/kg/W)	10 g SAR (W/kg/W)
	measured	measured
835	9.78 (0.98)	6.39 (0.64)



Page: 10/11



Ref: ACR.94.3.20.SATU.A

8 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date
SAM Phantom	MVG	SN-20/09-SAM71	Validated. No cal required.	Validated. No cal required.
COMOSAR Test Bench	Version 3	NA	the Theory Control of the Control of	Validated. No cal required.
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/2019	02/2021
Calipers	Carrera	CALIPER-01	01/2020	01/2023
Reference Probe	MVG	EPG122 SN 18/11	10/2019	10/2020
Multimeter	Keithley 2000	1188656	01/2020	01/2023
Signal Generator	Agilent E4438C	MY49070581	01/2020	01/2023
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	HP E4418A	US38261498	01/2020	01/2023
Power Sensor	HP ECP-E26A	US37181460	01/2020	01/2023
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Temperature and Humidity Sensor	Control Company	150798832	10/2019	10/2021

Page: 11/11



SAR Reference Dipole Calibration Report

Ref: ACR.94.5.20.SATU.A

WALTEK TESTING GROUP CO., LTD.

NO.77, HOUJIE SECTION, GUANTAI ROAD, HOUJIE TOWN, DONGGUAN GUANGDONG 518105, CHINA

MVG COMOSAR REFERENCE DIPOLE

FREQUENCY: 1800 MHZ SERIAL NO.: SN 09/15 DIP 1G800-360

Calibrated at MVG US 2105 Barrett Park Dr. - Kennesaw, GA 30144



Calibration Date: 08/29/20

Summary:

This document presents the method and results from an accredited SAR reference dipole calibration performed in MVG USA using the COMOSAR test bench. All calibration results are traceable to national metrology institutions.



Ref: ACR.94.5.20.SATU.A

	Name	Function	Date	Signature
Prepared by :	Jérôme LUC	Product Manager	8/30/2020	JS
Checked by:	Jérôme LUC	Product Manager	8/30/2020	JE
Approved by:	Kim RUTKOWSKI	Quality Manager	8/30/2020	him Putthowski

	Customer Name
Distribution :	Waltek Testing Group Co.,Ltd

Issue	Date	Modifications
A	8/30/2020	Initial release

Page: 2/11



Ref: ACR.94.5.20.SATU.A

TABLE OF CONTENTS

1	Intro	duction4	
2	Dev	ice Under Test	
3	Prod	uct Description4	
	3.1	General Information	4
4	Mea	surement Method5	
	4.1	Return Loss Requirements	5
	4.2	Mechanical Requirements	5
5	Mea	surement Uncertainty5	
	5.1	Return Loss	5
	5.2	Dimension Measurement	5
	5.3	Validation Measurement	
6	Cali	bration Measurement Results	
	6.1	Return Loss and Impedance In Head Liquid	6
	6.2	Return Loss and Impedance In Body Liquid	6
	6.3	Mechanical Dimensions	6
7	Vali	dation measurement	
	7.1	Head Liquid Measurement	7
	7.2	SAR Measurement Result With Head Liquid	
	7.3	Body Liquid Measurement	9
	7.4	SAR Measurement Result With Body Liquid	
8	List	of Equipment11	

Page: 3/11



Ref. ACR 94 5 20 SATU A

1 INTRODUCTION

This document contains a summary of the requirements set forth by the IEEE 1528, FCC KDBs and CEI/IEC 62209 standards for reference dipoles used for SAR measurement system validations and the measurements that were performed to verify that the product complies with the fore mentioned standards.

2 DEVICE UNDER TEST

Device Under Test		
Device Type	COMOSAR 1800 MHz REFERENCE DIPOLE	
Manufacturer	MVG	
Model	SID1800	
Serial Number	SN 09/15 DIP 1G800-360	
Product Condition (new / used)	Used	

A yearly calibration interval is recommended.

3 PRODUCT DESCRIPTION

3.1 GENERAL INFORMATION

MVG's COMOSAR Validation Dipoles are built in accordance to the IEEE 1528, FCC KDBs and CEI/IEC 62209 standards. The product is designed for use with the COMOSAR test bench only.



Figure 1 – MVG COMOSAR Validation Dipole

Page: 4/11



Ref: ACR 94 5 20 SATU A

4 MEASUREMENT METHOD

The IEEE 1528, FCC KDBs and CEI/IEC 62209 standards provide requirements for reference dipoles used for system validation measurements. The following measurements were performed to verify that the product complies with the fore mentioned standards.

4.1 RETURN LOSS REQUIREMENTS

The dipole used for SAR system validation measurements and checks must have a return loss of -20 dB or better. The return loss measurement shall be performed against a liquid filled flat phantom, with the phantom constucted as outlined in the fore mentioned standards.

4.2 MECHANICAL REQUIREMENTS

The IEEE Std. 1528 and CEI/IEC 62209 standards specify the mechanical components and dimensions of the validation dipoles, with the dimensions frequency and phantom shell thickness dependent. The COMOSAR test bench employs a 2 mm phantom shell thickness therefore the dipoles sold for use with the COMOSAR test bench comply with the requirements set forth for a 2 mm phantom shell thickness.

5 MEASUREMENT UNCERTAINTY

All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

5.1 <u>RETURN LOSS</u>

The following uncertainties apply to the return loss measurement:

Frequency band	Expanded Uncertainty on Return Loss
400-6000MHz	0.1 dB

5.2 <u>DIMENSION MEASUREMENT</u>

The following uncertainties apply to the dimension measurements:

Length (mm)	Expanded Uncertainty on Length
3 - 300	0.05 mm

5.3 <u>VALIDATION MEASUREMENT</u>

The guidelines outlined in the IEEE 1528, FCC KDBs, CENELEC EN50361 and CEI/IEC 62209 standards were followed to generate the measurement uncertainty for validation measurements.

Scan Volume	Expanded Uncertainty	
1 g	20.3 %	

Page: 5/11

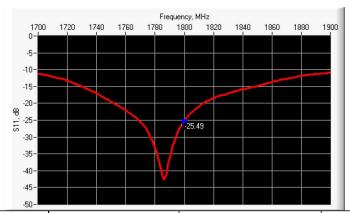


Ref: ACR.94.5.20.SATU.A

10 g	20.1 %

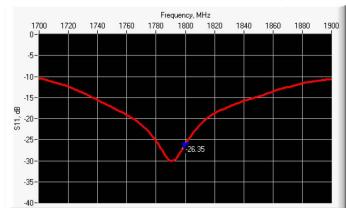
6 CALIBRATION MEASUREMENT RESULTS

6.1 <u>RETURN LOSS AND IMPEDANCE IN HEAD LIQUID</u>



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance	
1800	-25.49	-20	$45.4 \Omega + 2.6 j\Omega$	

6.2 <u>RETURN LOSS AND IMPEDANCE IN BODY LIQUID</u>



	Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
ſ	1800	-26.35	-20	45.4 Ω - 1.5 iΩ

6.3 <u>MECHANICAL DIMENSIONS</u>

Frequency MHz	L mm		h mm		d mm	
	required	measured	required	measured	required	measured
300	420.0 ±1 %.		250.0 ±1 %.		6.35 ±1 %.	

Page: 6/11