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SAR REFERENCE WAVEGUIDE CALIBRATION REPORT

ACCREDITED

Certificate #4298.01

Ref: ACR.60.10.21.MVGB.A

7.1 HEAD LIQUID MEASUREMENT

Frequency MHz	Relative per	mittivity (ɛɾ')	Conductivity (σ) S/m		
	required measured		required	measured	
5000	36.2 ±10 %		4.45 ±10 %		
5100	36.1 ±10 %		4.56 ±10 %		
5200	36.0 ±10 %	34.06	4.66 ±10 %	4.70	
5300	35.9 ±10 %		4.76 ±10 %		
5400	35.8 ±10 %	33.39	4.86 ±10 %	4.91	
5500	35.6 ±10 %		4.97 ±10 %		
5600	35.5 ±10 %	32.77	5.07 ±10 %	5.13	
5700	35.4 ±10 %		5.17 ±10 %		
5800	35.3 ±10 %	32.40	5.27 ±10 %	5.34	
5900	35.2 ±10 %		5.38 ±10 %		
6000	35.1 ±10 %		5.48 ±10 %		

7.2 MEASUREMENT RESULT

At those frequencies, the target SAR value can not be generic. Hereunder is the target SAR value defined by Satimo, within the uncertainty for the system validation. All SAR values are normalized to 1 W net power. In bracket, the measured SAR is given with the used input power.

Frequency (MHz)	1 g SAR (W/kg)		10 g SAR (W/kg)		
	required	measured	required	measured	
5200	159.00	162.34 (16.23)	56.90	55.42 (5.54)	
5400	166.40	168.48 (16.85)	58.43	57.03 (5.70)	
5600	173.80	174.92 (17.49)	59.97	58.63 (5.86)	
5800	181.20	178.89 (17.89)	61.50	59.32 (5.93)	

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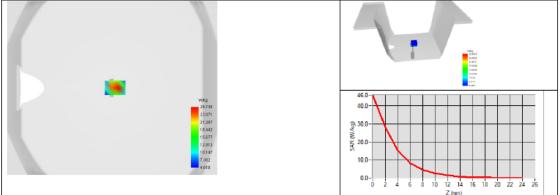
SAR REFERENCE WAVEGUIDE CALIBRATION REPORT

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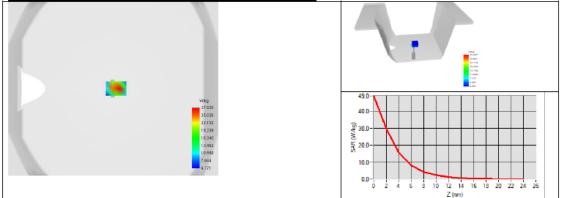
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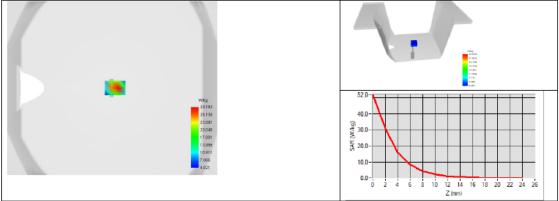
SAR MEASUREMENT PLOTS @ 5200 MHz



SAR MEASUREMENT PLOTS @ 5400 MHz



SAR MEASUREMENT PLOTS @ 5600 MHz



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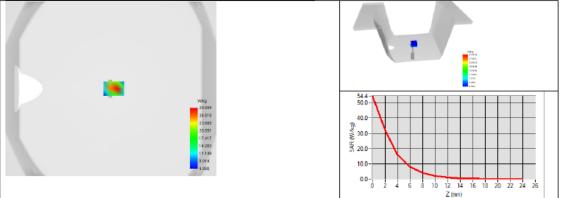
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SAR MEASUREMENT PLOTS @ 5800 MHz



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8 LIST OF EQUIPMENT

Equipment Summary Sheet							
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date			
Flat Phantom	MVG	SN 13/00 SAM68	Validated. No cal required.	Validated. No cal required.			
COMOSAR Test Bench	Version 3	ΝΔ		Validated. No cal required.			
Network Analyzer	Rohde & Schwarz ZVM	100203	05/2019	05/2022			
Network Analyzer – Calibration kit	Rohde & Schwarz ZV-Z235	101223	05/2019	05/2022			
Calipers	Mitutoyo	SN 0009732	10/2019	10/2022			
Reference Probe	MVG	EPGO333 SN 41/18	05/2020	05/2021			
Multimeter	Keithley 2000	1160271	02/2020	02/2023			
Signal Generator	Rohde & Schwarz SMB	106589	04/2019	04/2022			
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.				
Power Meter	NI-USB 5680	170100013	05/2019	05/2022			
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.			
Temperature / Humidity Sensor	Testo 184 H1	44220687	05/2020	05/2023			

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<Justification of the extended calibration>

Iac-MR

NTEK 北测

If dipoles are verified in return loss (<-20dB, within 20% of prior calibration for below 3GHz, and <-8dB, within 20% of prior calibration for 5GHz to 6GHz), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

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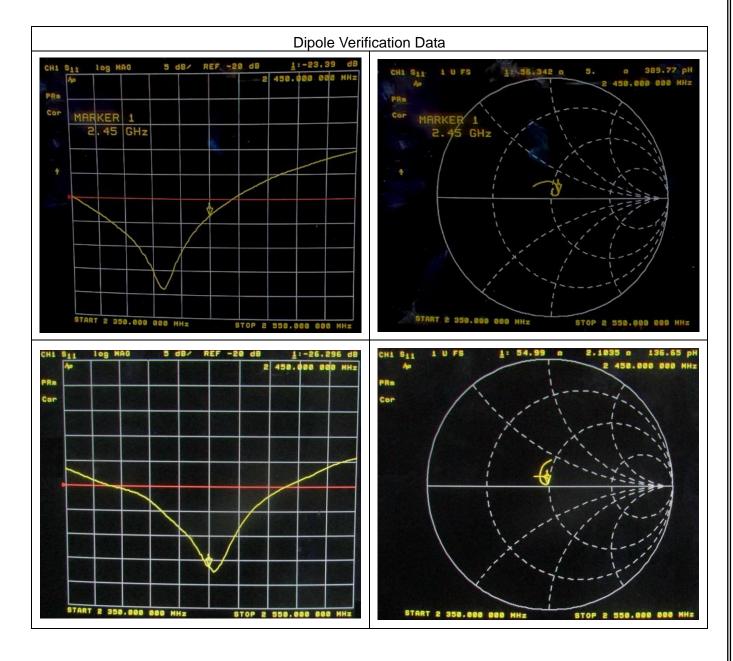
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ertificate #4298.01

<Head 2450MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-23.18	-	56.30	-	Mar. 01, 2021
-23.39	0.91	56.342	0.042	Feb. 28, 2022
-26.296	13.44	54.99	1.310	Feb. 20, 2023

The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.



Report No.: S23120703102001

<Head 5200MHz>

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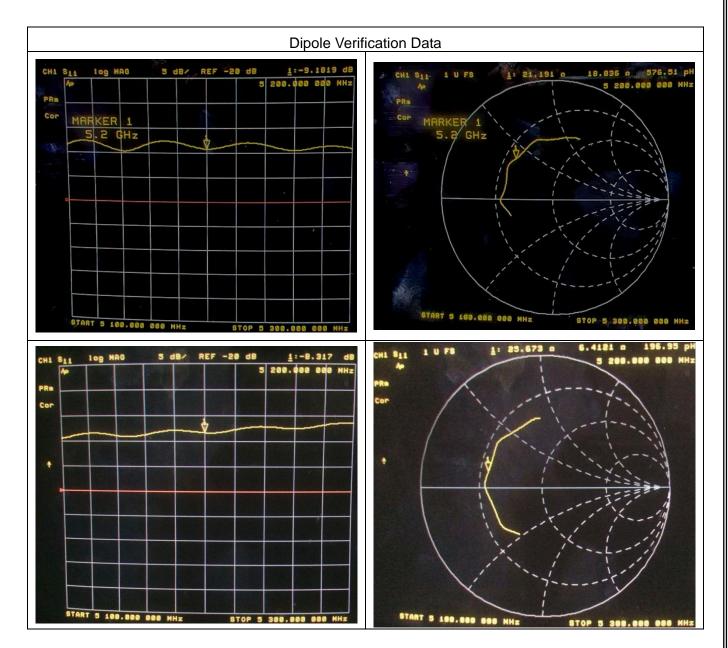
ACCREDITED

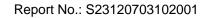
Certificate #4298.01

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-9.15	-	21.17	-	Mar. 01, 2021
-9.1819	0.35	21.191	0.021	Feb. 28, 2022
-8.317	9.10	25.673	4.503	Feb. 20, 2023

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The return loss is <-8dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.



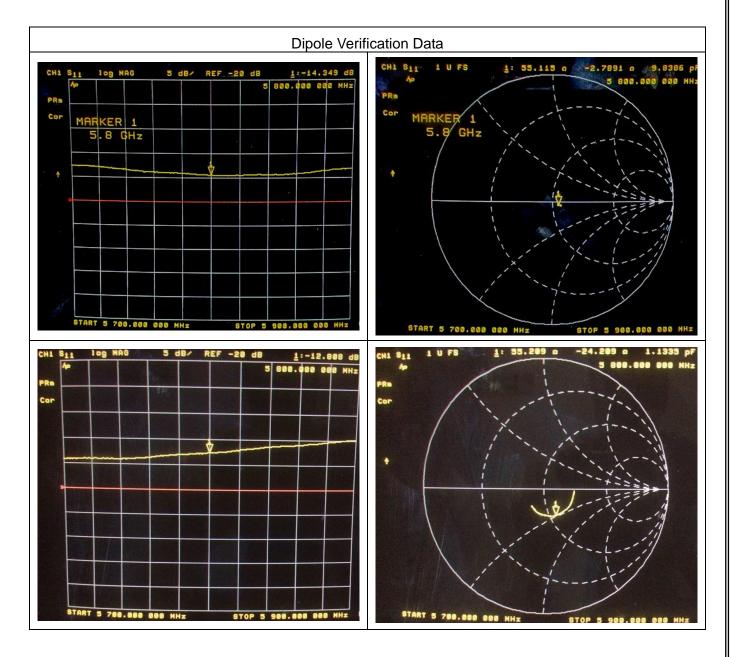


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<Head 5800MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-14.30	-	54.74	-	Mar. 01, 2021
-14.349	0.34	55.115	0.375	Feb. 28, 2022
-12.808	10.43	55.289	0.549	Feb. 27, 2023

The return loss is <-8dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.



END_