D2600V2 - SN: 1012

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY8 Module SAR	16.4.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with spacer
Zoom Scan Resolution	dx, dy = 5mm, dz = 1.5mm	Graded Ratio = 1.5 mm (Z direction)
Frequency	2600MHz ±1MHz	

Head TSL parameters at 2600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ±0.2)°C	37.4 ±6%	1.99 mho/m ±6%
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 2600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	24 dBm input power	13.8 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	54.9 W/kg ±17.0% (k = 2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	24 dBm input power	6.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ±16.5% (k = 2)

D2600V2 - SN: 1012

July 10, 2024

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 2600 MHz

Impedance	47.3 Ω – 6.6 jΩ
Return Loss	-22.7 dB

General Antenna Parameters and Design

1.153 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured. The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D2600V2-1012_Jul24

Disabled

Positive / Negative

System Performance Check Report

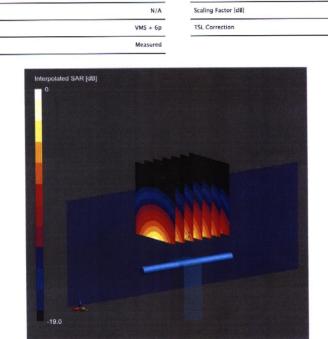
e	_	_	_		
Su	m	m	а	rv.	

Grading Ratio

Surface Detection Scan Method

MAIA

Summary								
Dipole		F	requency [MH	tz]	TSL	Power [dBm]		
D2600V2 - 5N1012		2	2600		HSL	24		
Exposure Condition	S							
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat	10		CW, 0	2600, 0		7.29	1.99	37.4
Hardware Setup								
Phantom	TSL, Measured	Date	1	Probe, Calibration	Date	DAE,	Calibration Date	
MFP V8.0 Center	HSL, 2024-07-	10	1	EX3DV4 - SN7349.	2024-06-03	DAE	4ip Sn1836, 2024-01-10	
Scans Setup					Measureme	nt Results		
				Zoom Scan				Zoom Scan
Grid Extents [mm]				30 x 30 x 30	Date			2024-07-10
Grid Steps [mm]			5.0 x 5.0 x 1.5 psSAR1g [W/#		(g]		13.8	
Sensor Surface [mm]		_		1.4	psSAR10g [W	/Kg]		6.24
Graded Grid				Yes	Power Drift [d	IB]		0.00



1.5

Power Scaling

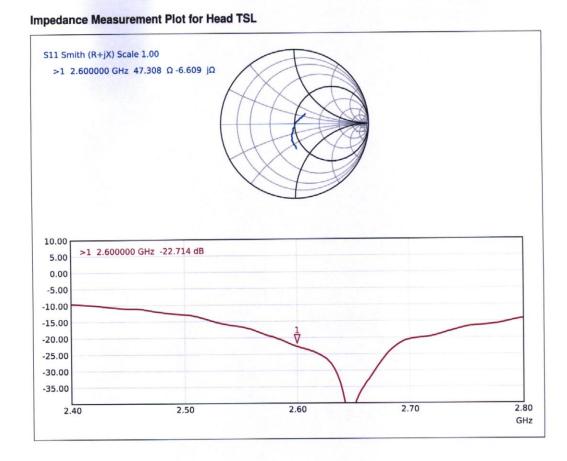
0 dB = 29.3 W/Kg

Certificate No: D2600V2-1012_Jul24

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D2600V2 - SN: 1012

July 10, 2024



Certificate No: D2600V2-1012_Jul24

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5GHz Dipole Calibration Certificate

Calibration Laboratory Schmid & Partner Engineering AG eughausstrasse 43, 8004 Zurich,		S C S	Schweizerischer Kalibrierd Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Accreditati The Swiss Accreditation Service Multilateral Agreement for the rea	is one of the signatorie	s to the EA certificates	Accreditation No.: SCS 0108
Client CTTL Beijing		Certificate No.	D5GHzV2-1060_Jun24
CALIBRATION C	ERTIFICATI		
Object	D5GHzV2 - SN:1	060	
Calibration procedure(s)	QA CAL-22.v7 Calibration Proce	dure for SAR Validation Sources	between 3-10 GHz
Calibration date:	June 12, 2024		
The measurements and the uncerta	ainties with confidence pr	onal standards, which realize the physical unit robability are given on the following pages and y facility: environment temperature (22 ± 3)°C	d are part of the certificate.
The measurements and the uncerta	ainties with confidence pr	obability are given on the following pages and	d are part of the certificate.
The measurements and the uncert All calibrations have been conducte Calibration Equipment used (M&TE Primary Standards	ainties with confidence pr ed in the closed laborator E critical for calibration)	robability are given on the following pages and y facility: environment temperature (22 ± 3)°C Cal Date (Certificate No.)	d are part of the certificate. c and humidity < 70%. Scheduled Calibration
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Certificate No: D5GHzV2-1060_Jun24

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



Realized Scotl

S Schweizerischer Kalibrierdienst Service suisse d'étalonnage

C Service suisse d'étalonnage Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D5GHzV2-1060_Jun24

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5250 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.4 ± 6 %	4.55 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.64 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.8 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5250 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.3 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.82 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.3 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 100 mW input power	2.23 W/kg

Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.2 ± 6 %	4.64 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 \mbox{cm}^3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.8 ± 6 %	4.86 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	83.4 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 100 mW input power	2.37 W/kg

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.6 ± 6 %	4.97 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.2 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	5.14 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.99 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.9 W/kg ± 19.9 % (k=2)
SAD		
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 100 mW input power	2.28 W/kg

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.3 ± 6 %	5.19 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.88 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.2 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	47.5 Ω - 4.9 jΩ	
Return Loss	- 25.0 dB	

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	46.5 Ω - 3.0 jΩ	
Return Loss	- 26.5 dB	

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	46.3 Ω - 1.1 jΩ
Return Loss	- 27.9 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	49.5 Ω - 2.3 jΩ	
Return Loss	- 32.7 dB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	53.0 Ω + 1.7 jΩ
Return Loss	- 29.5 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	51.5 Ω - 0.6 jΩ	
Return Loss	- 35.8 dB	

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	51.0 Ω - 2.4 jΩ					
Return Loss	- 31.9 dB					

General Antenna Parameters and Design

Electrical Delay (one direction)	1.202 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for Head TSL

Date: 12.06.2024

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1060

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5250 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5800 MHz Medium parameters used: f = 5200 MHz; $\sigma = 4.55$ S/m; $\varepsilon_r = 36.4$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5250 MHz; $\sigma = 4.6$ S/m; $\varepsilon_r = 36.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5300 MHz; $\sigma = 4.64$ S/m; $\varepsilon_r = 36.2$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5500 MHz; $\sigma = 4.86$ S/m; $\varepsilon_r = 35.8$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5500 MHz; $\sigma = 4.97$ S/m; $\varepsilon_r = 35.6$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5750 MHz; $\sigma = 5.14$ S/m; $\varepsilon_r = 35.4$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.19$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.19$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.19$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.19$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.19$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5800 MHz; $\sigma = 5.19$ S/m; $\varepsilon_r = 35.3$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.63, 5.63, 5.63) @ 5200 MHz, ConvF(5.39, 5.39, 5.39) @ 5250 MHz, ConvF(5.38, 5.38, 5.38) @ 5300 MHz, ConvF(5.04, 5.04, 5.04) @ 5500 MHz, ConvF(5, 5, 5) @ 5600 MHz, ConvF(4.98, 4.98, 4.98) @ 5750 MHz, ConvF(4.86, 4.86, 4.86) @ 5800 MHz; Calibrated: 07.03.2024
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.05.2024
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 75.67 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 27.1 W/kg SAR(1 g) = 7.64 W/kg; SAR(10 g) = 2.18 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 69.1% Maximum value of SAR (measured) = 17.7 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 77.05 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 26.8 W/kg SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.23 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 70.1% Maximum value of SAR (measured) = 18.0 W/kg

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 76.66 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 28.3 W/kg SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.28 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 68.9% Maximum value of SAR (measured) = 18.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan,

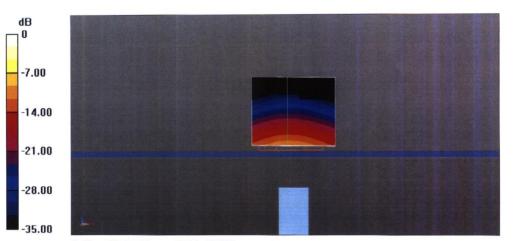
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 77.28 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 32.3 W/kg SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.37 W/kg Smallest distance from peaks to all points 3 dB below = 6.8 mm Ratio of SAR at M2 to SAR at M1 = 66.4% Maximum value of SAR (measured) = 20.0 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 76.70 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 30.7 W/kg SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.32 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 67.1% Maximum value of SAR (measured) = 19.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.11 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 31.5 W/kg SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.28 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 65.6% Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.18 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 31.5 W/kg SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.22 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 65.1% Maximum value of SAR (measured) = 19.3 W/kg

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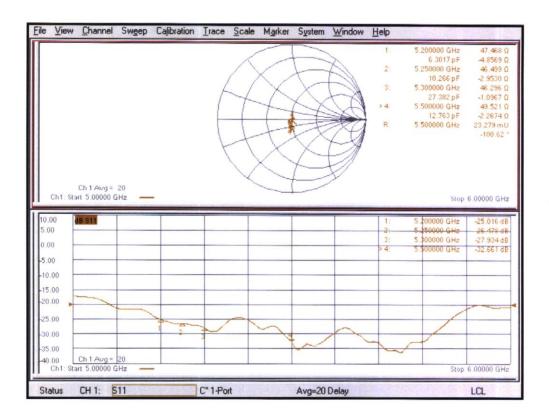


0 dB = 20.0 W/kg = 13.02 dBW/kg

Certificate No: D5GHzV2-1060_Jun24

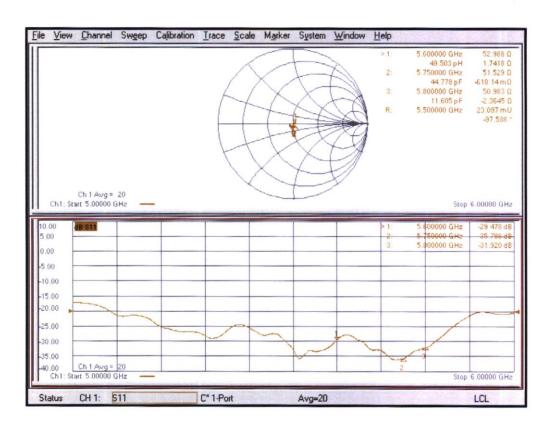
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Impedance Measurement Plot for Head TSL (5200, 5250, 5300, 5500 MHz)



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Impedance Measurement Plot for Head TSL (5600, 5750, 5800 MHz)



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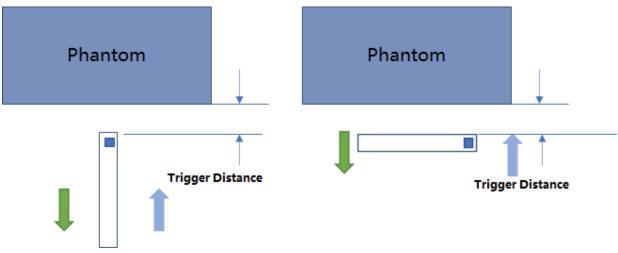
ANT	Side	Distance
	Back (mm)	21
3	Top(mm)	28
	Left (mm)	14
	Back (mm)	19
2	Top(mm)	18
	Left (mm)	14
6	Back (mm)	16
8	Top(mm	18

ANNEX I Sensor Triggering Data Summary

Rear, Left and Top of the DUT was placed directly below the flat phantom. The DUT was moved toward the phantom to determine the trigger distance for enabling power reduction. The DUT was moved away from the phantom to determine the trigger distance for resuming full power.

To ensure all production units are compliant it is necessary to test SAR at a distance 1mm less than the smallest distance from the device and SAR phantom with the device at maximum output power without power reduction.

The DUT featured a visual indicator on its display that showed the status of the proximity sensor (Triggered or not triggered). This was used to determine the status of the sensor during the proximity sensor assessment as monitoring the output power directly was not practical without affecting the measurement. It was confirmed separately that the output power according to locking the proximity sensor status. Section 10 contains both the full and reduced conducted power measurements.



Blue arrow : Direction of DUT travel for determination of power reduction triggering point. Green arrow: Direction of DUT travel for determination of normal power triggering point

ANT3

Rear

Moving device toward the phantom:

			senso	or Trigge	ered or	Not Trigg	gered				
										16	
Main antenna	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES

Moving device away from the phantom:

			sei	nsor Trig	ggered	or Not T	riggered				
Distance [mm] 16 17 18 19 20 21 22 23 24 25 26											
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Left

Moving device toward the phantom:

			senso	or Trigg	ered or	Not Trigg	gered				
Distance [mm] 19 18 17 16 15 14 13 12 11 10 9											
Main antenna NO NO NO NO NO YES YES YES YES YES YES YES										YES	
Moving device away from the phantom:											

Moving device away from the phantom:

			sei	nsor Tri	ggered	or Not T	riggered				
Distance [mm] 9 10 11 12 13 14 15 16 17 18 19											
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Тор

Moving device toward the phantom:

	sensor Triggered or Not Triggered													
Distance [mm]3332313029282726252423Main antennaNONONONOYESYESYESYESYESYES														
Main antenna NO NO NO NO YES YES YES YES YES YES														
ممانيده المعانية ما م														

Moving device away from the phantom:

	sensor Triggered or Not Triggered												
Distance [mm]	23	24	25	26	27	28	29	30	31	32	33		
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO		

ANT2

Rear

Moving device toward the phantom:

	sensor Triggered or Not Triggered													
Distance [mm]	24	23	22	21	20	19	18	17	16	15	14			
Main antenna	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES			
NA. 1			. 1											

Moving device away from the phantom:

			sei	nsor Trig	ggered	or Not T	riggered				
Distance [mm]	14	15	16	17	18	19	20	21	22	23	24
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO

Left

Moving device toward the phantom:

sensor Triggered or Not Triggered													
Distance [mm]	19	18	17	16	15	14	13	12	11	10	9		
Main antenna NO NO NO NO NO YES YES YES YES YES YES YES											YES		
Moving device	Moving device away from the phantom:												

Moving device away from the phantom:

	sensor Triggered or Not Triggered													
Distance [mm] 9 10 11 12 13 14 15 16 17 18 19											19			
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO			

Тор

Moving device toward the phantom:

sensor Triggered or Not Triggered													
Distance [mm] 23 22 21 20 19 18 17 16 15 14 13													
Main antenna	Main antenna NO NO NO NO NO YES YES YES YES YES YES												
NA 1 1 1	,												

Moving device away from the phantom:

	sensor Triggered or Not Triggered													
Distance [mm] 13 14 15 16 17 18 19 20 21 22 23														
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO			

ANT6

Rear

Moving device toward the phantom:

	sensor Triggered or Not Triggered													
Distance [mm] 21 20 19 18 17 16 15 14 13 12 11														
Main antenna	Main antenna NO NO NO NO YES YES YES YES YES YES YES													
Maying dayiaa	Maying daying purper the phontons:													

Moving device away from the phantom:

	sensor Triggered or Not Triggered												
Distance [mm] 11 12 13 14 15 16 17 18 19 20 21													
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO		

Тор

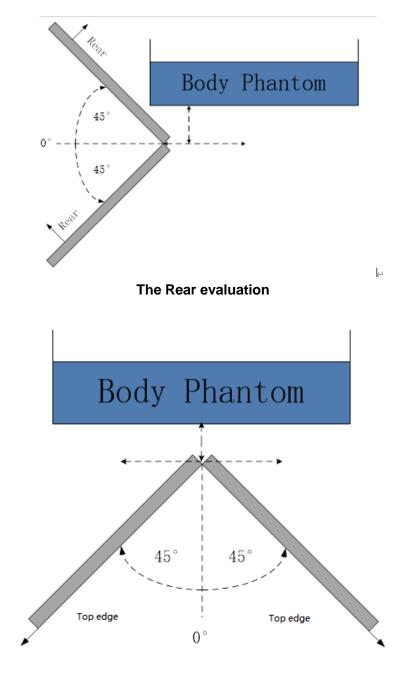
Moving device toward the phantom:

	sensor Triggered or Not Triggered													
Distance [mm] 23 22 21 20 19 18 17 16 15 14 13														
Main antenna	Main antenna NO NO NO NO NO YES YES YES YES YES YES													
Maxima daviaa														

Moving device away from the phantom:

	sensor Triggered or Not Triggered													
Distance [mm] 13 14 15 16 17 18 19 20 21 22 23														
Main antenna	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO			

The influence of table tilt angles to proximity sensor triggering is determined by positioning each edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance by rotating the device around the edge next to the phantom in \leq 10° increments until the tablet is ±45° or more from the vertical position at 0°.



The Left/Top edge evaluation

ANNEX J Accreditation Certificate



For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.