

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.3 ± 6 %	5.94 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.93 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.6 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL SAR measured	condition 100 mW input power	2.23 W/kg

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.0 ± 6 %	6.14 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.76 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.4 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	45.9 ± 6 %	6.21 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.77 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	77.0 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL SAR measured	condition 100 mW input power	2.17 W/kg

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	46.7 Ω - 6.1 jΩ
Return Loss	- 23.0 dB

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	46.1 Ω - 4.3 jΩ
Return Loss	- 24.3 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	44.6 Ω - 3.4 jΩ	
Return Loss	- 23.5 dB	

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	47.7 Ω - 4.2 jΩ
Return Loss	- 26.2 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.1 Ω - 1.7 jΩ
Return Loss	- 27.5 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	50.3 Ω - 2.8 jΩ
Return Loss	- 31.1 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	49.7 Ω - 4.8 jΩ
Return Loss	- 26.4 dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	46.9 Ω - 5.2 jΩ				
Return Loss	- 24.1 dB				

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	46.1 Ω - 1.8 jΩ				
Return Loss	- 27.0 dB				

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Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	46.7 Ω - 2.2 jΩ
Return Loss	- 27.7 dB

Antenna Parameters with Body TSL at 5500 MHz

Impedance, transformed to feed point	49.5 Ω - 2.3 jΩ
Return Loss	- 32.4 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.7 Ω - 1.2 jΩ				
Return Loss	- 25.2 dB				

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	52.0 Ω - 2.1 jΩ				
Return Loss	- 30.9 dB				

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	51.2 Ω - 3.9 jΩ				
Return Loss	- 27.8 dB				

General Antenna Parameters and Design

Electrical Delay (one direction)	1.198 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
Manufactured on	November 27, 2006

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DASY5 Validation Report for Head TSL

Date: 18.07.2018

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: 5700 MHz, Frequency: 5800 MHz Medium parameters used: f = 5200 MHz; σ = 4.51 S/m; ϵ_r = 36.2; ρ = 1000 kg/m³, Medium parameters used: f = 5250 MHz; σ = 4.56 S/m; ϵ_r = 36.1; ρ = 1000 kg/m³, Medium parameters used: f = 5300 MHz; σ = 4.61 S/m; ϵ_r = 36; ρ = 1000 kg/m³, Medium parameters used: f = 5500 MHz; σ = 4.82 S/m; ϵ_r = 35.7; ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 4.92 S/m; ϵ_r = 35.6; ρ = 1000 kg/m³, Medium parameters used: f = 5750 MHz; σ = 5.08 S/m; ϵ_r = 35.4; ρ = 1000 kg/m³, Medium parameters used: f = 5750 MHz; σ = 5.13 S/m; ϵ_r = 35.3; ρ = 1000 kg/m³ Medium parameters used: f = 5800 MHz; σ = 5.13 S/m; ϵ_r = 35.3; ρ = 1000 kg/m³

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.75, 5.75, 5.75) @ 5200 MHz, ConvF(5.51, 5.51, 5.51) @ 5250 MHz, ConvF(5.5, 5.5, 5.5) @ 5300 MHz, ConvF(5.2, 5.2, 5.2) @ 5500 MHz, ConvF(5.05, 5.05, 5.05) @ 5600 MHz, ConvF(4.98, 4.98, 4.98) @ 5750 MHz, ConvF(4.96, 4.96, 4.96) @ 5800 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

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 = 76.00 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 29.2 W/kg SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.28 W/kg Maximum value of SAR (measured) = 18.7 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 = 76.89 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 28.5 W/kg SAR(1 g) = 8 W/kg; SAR(10 g) = 2.31 W/kg Maximum value of SAR (measured) = 18.7 W/kg

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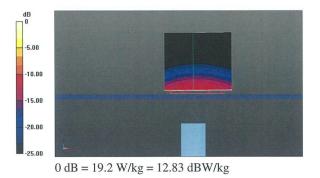
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 75.88 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 30.9 W/kg SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.37 W/kg Maximum value of SAR (measured) = 19.1 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 = 75.62 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 33.0 W/kg SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.37 W/kg Maximum value of SAR (measured) = 20.2 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 = 76.59 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 32.8 W/kg SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.4 W/kg Maximum value of SAR (measured) = 20.3 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 = 75.29 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 31.3 W/kg SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.3 W/kg Maximum value of SAR (measured) = 19.2 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 = 73.98 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 32.1 W/kg SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.27 W/kg Maximum value of SAR (measured) = 19.6 W/kg

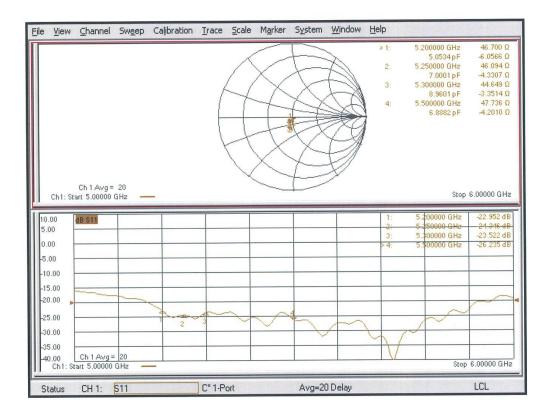


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Impedance Measurement Plot for Head TSL (5200/5250/5300/5500MHz)

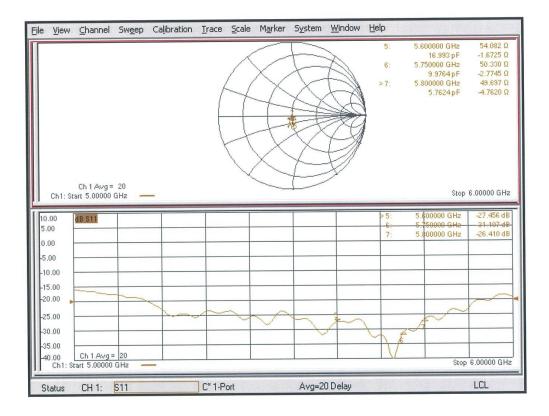


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Impedance Measurement Plot for Head TSL (5600/5750/5800MHz)



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DASY5 Validation Report for Body TSL

Date: 19.07.2018

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: 5700 MHz, Frequency: 5800 MHz Medium parameters used: f = 5200 MHz; $\sigma = 5.4$ S/m; $\epsilon_r = 47$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5250 MHz; $\sigma = 5.47$ S/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5300 MHz; $\sigma = 5.53$ S/m; $\epsilon_r = 46.8$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5500 MHz; $\sigma = 5.8$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5500 MHz; $\sigma = 5.94$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5500 MHz; $\sigma = 6.14$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.14$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 46.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 2000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 2000$ Mg = 1000 kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 2000$ Mg = 1000 kg/m³, Medium parameters used: f = 5800 MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 2000$ Mg = 1000 kg/m³

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.35, 5.35, 5.35) @ 5200 MHz, ConvF(5.26, 5.26, 5.26) @ 5250 MHz, ConvF(5.15, 5.15, 5.15) @ 5300 MHz, ConvF(4.7, 4.7, 4.7) @ 5500 MHz, ConvF(4.65, 4.65) @ 5600 MHz, ConvF(4.57, 4.57, 4.57) @ 5750 MHz, ConvF(4.53, 4.53, 4.53) @ 5800 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Dipole Calibration for Body 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 = 66.56 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 27.4 W/kg SAR(1 g) = 7.35 W/kg; SAR(10 g) = 2.08 W/kg Maximum value of SAR (measured) = 16.4 W/kg

Dipole Calibration for Body 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 = 67.54 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 28.7 W/kg SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.14 W/kg Maximum value of SAR (measured) = 17.6 W/kg

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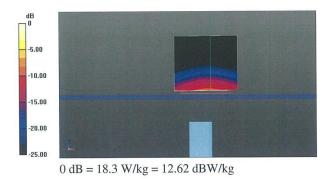
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 67.36 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 29.9 W/kg SAR(1 g) = 7.6 W/kg; SAR(10 g) = 2.14 W/kg Maximum value of SAR (measured) = 17.6 W/kg

Dipole Calibration for Body 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 = 67.91 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 33.1 W/kg SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 18.9 W/kg

Dipole Calibration for Body 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 = 67.38 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 33.7 W/kg SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 19.0 W/kg

Dipole Calibration for Body 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 = 67.03 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 32.8 W/kg SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.17 W/kg Maximum value of SAR (measured) = 19.0 W/kg

Dipole Calibration for Body 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 = 65.33 V/m; Power Drift = -0.06 dB Peak SAR (extrapolated) = 32.9 W/kg SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.17 W/kg Maximum value of SAR (measured) = 18.3 W/kg

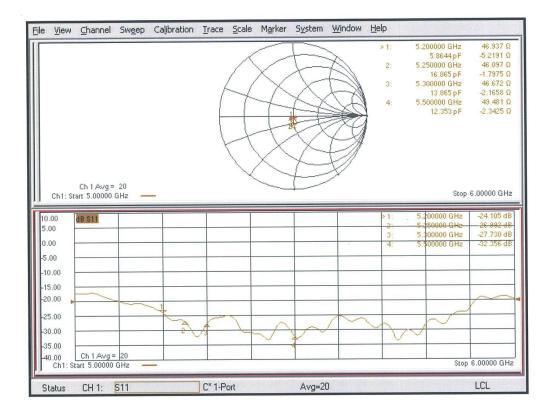


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Impedance Measurement Plot for Body TSL (5200/5250/5300/5500MHz)

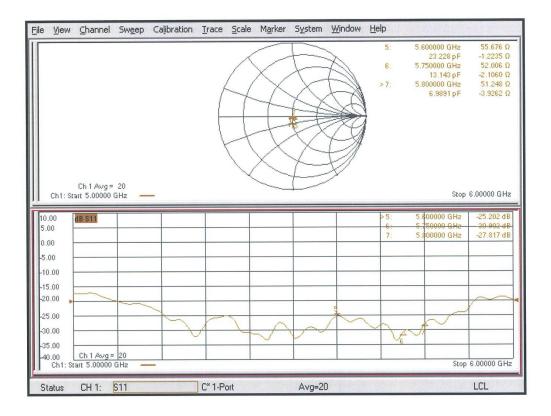


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Impedance Measurement Plot for Body TSL (5600/5750/5800MHz)



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ANNEX I Sensor Triggering Data Summary

Per FCC KDB Publication 616217 D04v01r02, this device was tested by the manufacturer to determine the proximity sensor triggering distances for the rear and bottom edge of the device. The measured output power within ± 5 mm of the triggering points (or until touching the phantom) is included for rear and each applicable edge.

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 (determined from these triggering tests according to the KDB 616217 D04v01r02) with the device at maximum output power without power reduction. These SAR tests are included in addition to the SAR tests for the device touching the SAR phantom, with reduced power.

We tested the power and got the different proximity sensor triggering distances for front, rear and bottom edge. But the manufacturer has declared 15mm is the most conservative triggering distance for main antenna. So base on the most conservative triggering distance of 15mm, additional SAR measurements were required at 14mm from the highest SAR position between rear and bottom edge of main antenna.

Front

Moving device toward the phantom:

The power return value (KDB 616217 6.2.6)											
Distance [mm]	20	19	18	17	16	15	14	13	12	11	10
Main antenna [dBm]	23.02	22.99	22.98	20.95	20.93	20.92	20.94	20.96	20.96	20.92	20.93
Mar to a la to a c											

Moving device away from the phantom:

			The p	ower re	turn val	ue (KDI	B 61621	17 6.2.6)		
Distance [mm]	10	11	12	13	14	15	16	17	18	19	20
Main antenna [dBm]	20.95	20.94	20.96	20.95	20.92	20.99	20.95	22.92	22.93	22.91	22.97

Rear

Moving device toward the phantom:

The power return value (KDB 616217 6.2.6)												
Distance [mm] 20 19 18 17 16 15 14 13 12 11 10												
Main antenna [dBm] 23.05 22.96 23.04 21.01 20.98 20.99 20.91 21.01 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 20.93 <td>20.95</td>											20.95	
Moving dovice away from the phantom:												

Moving device away from the phantom:

	The power return value (KDB 616217 6.2.6)										
Distance [mm]	10	11	12	13	14	15	16	17	18	19	20
Main antenna [dBm]	20.92	21.01	20.99	21.02	21.02	21.01	21.02	22.95	22.94	23.01	23.02

Bottom Edge

Moving device toward the phantom:

Distance [mm] 20 19 18 17 16 15 14 13 12 11 10 Main antenna [dBm] 20.95 20.94 21.00 20.92 20.93 21.01 20.94 20.93 20.94 20.95 20.95	The power return value (KDB 616217 6.2.6)											
Main antenna [dBm] 20.95 20.94 21.00 20.92 20.93 21.01 20.94 20.93 20.94 20.96 20.95	Distance [mm] 20 19 18 17 16 15 14 13 12 11 10											10
	Main antenna [dBm]	20.95	20.94	21.00	20.92	20.93	21.01	20.94	20.93	20.94	20.96	20.95

Moving device away from the phantom:

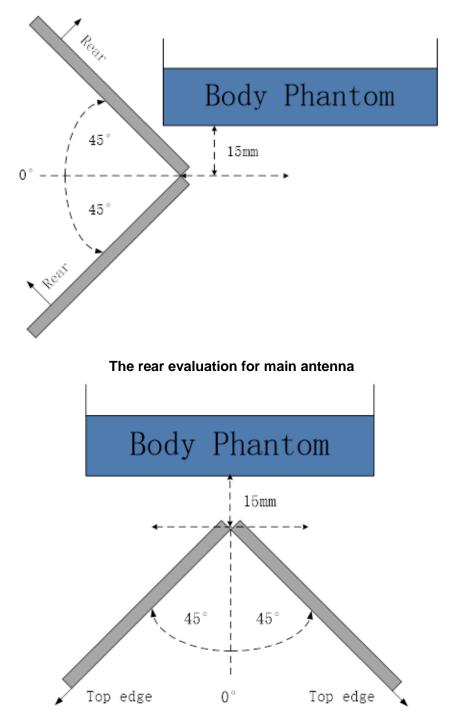
		The power return value (KDB 616217 6.2.6)										
Distance [mm]	10	11	12	13	14	15	16	17	18	19	20	
Main antenna [dBm]	20.98	20.95	20.99	20.91	21.00	21.01	20.93	20.94	21.02	20.95	21.03	

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Per FCC KDB Publication 616217 D04v01r02, 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 $\leq 10^{\circ}$ increments until the tablet is ±45° or more from the vertical position at 0°.



The bottom edge evaluation for main antenna

Based on the above evaluation, we come to the conclusion that the sensor triggering is not released and normal maximum output power is not restored within the $\pm 45^{\circ}$ range at the smallest sensor triggering test distance declared by manufacturer.



ANNEX J Accreditation Certificate

