





### Body TSL parameters at 5250 MHz

The following parameters and calculations were applied. Temperature Permittivity

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.1 ± 6 %	5.40 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C		

#### SAR result with Body TSL at 5250 MHz

SAR averaged over 1 $cm^3$ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	71.5 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.04 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.3 W/kg ± 24.2 % (k=2)

#### Body TSL parameters at 5600 MHz

	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	47.6 ± 6 %	5.70 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C		

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### SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.62 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.9 W/kg ± 24.4 % (k=2)
SAR averaged over 10 $cm^3$ (10 g) of Body TSL	Condition	
SAR measured	100 mW input power	2.18 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.7 W/kg ± 24.2 % (k=2)

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### 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	47.5 ± 6 %	5.78 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C		

#### SAR result with Body TSL at 5750 MHz

SAR for nominal Body TSL parameters	normalized to 1W	20.9 W/kg ± 24.2 % (k=2)
SAR measured	100 mW input power	2.10 W/kg
SAR averaged over 10 $cm^3$ (10 g) of Body TSL	Condition	
SAR for nominal Body TSL parameters	normalized to 1W	73.6 W/kg ± 24.4 % (k=2)
SAR measured	100 mW input power	7.39 W/kg
SAR averaged over 1 $cm^3$ (1 g) of Body TSL	Condition	

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### Appendix (Additional assessments outside the scope of CNAS L0570)

### Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	48.8Ω - 4.65jΩ	
Return Loss	- 26.2dB	

### Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	49.2Ω + 0.58jΩ	
Return Loss	- 40.0dB	

### Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	50.3Ω + 1.08jΩ
Return Loss	- 39.0dB

### Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	48.8Ω - 2.02jΩ	
Return Loss	- 32.5dB	

#### Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	51.3Ω + 3.94jΩ	
Return Loss	- 27.8dB	

#### Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	52.2Ω + 4.77jΩ	
Return Loss	- 25.8dB	

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#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.059 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

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### DASY5 Validation Report for Head TSL Test Laboratory: CTTL, Beijing, China

Date: 08.28.2019

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1238

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz,

Medium parameters used: f = 5250 MHz;  $\sigma$  = 4.692 S/m;  $\epsilon_r$  = 35.71;  $\rho$  = 1000 kg/m3, Medium parameters used: f = 5600 MHz;  $\sigma$  = 4.992 S/m;  $\epsilon_r$  = 35.42;  $\rho$  = 1000 kg/m3, Medium parameters used: f = 5750 MHz;  $\sigma$  = 5.096 S/m;  $\epsilon_r$  = 35.13;  $\rho$  = 1000 kg/m3,

Phantom section: Center Section

- DASY5 Configuration:
  - Probe: EX3DV4 SN3617; ConvF(5.39, 5.39, 5.39) @ 5250 MHz; ConvF(5.06, 5.06, 5.06) @ 5600 MHz; ConvF(5.07, 5.07, 5.07) @ 5750 MHz; Calibrated: 1/31/2019
  - Sensor-Surface: 1.4mm (Mechanical Surface Detection)
  - Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
  - Phantom: MFP\_V5.1C ; Type: QD 000 P51CA; Serial: 1062
  - Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 69.41 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 32.8 W/kg SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 70.02 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 35.7 W/kg SAR(1 g) = 7.96 W/kg; SAR(10 g) = 2.27 W/kg Maximum value of SAR (measured) = 19.2 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 68.55 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 36.5 W/kg SAR(1 g) = 7.86 W/kg; SAR(10 g) = 2.23 W/kg Maximum value of SAR (measured) = 18.9 W/kg

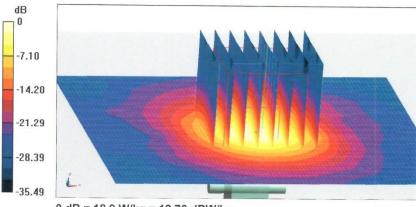
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0 dB = 18.9 W/kg = 12.76 dBW/kg

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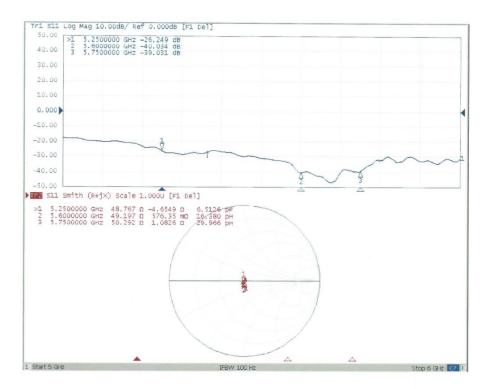
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### Impedance Measurement Plot for Head TSL



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### DASY5 Validation Report for Body TSL Test Laboratory: CTTL, Beijing, China

Date: 08.29.2019

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1238

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz,

Medium parameters used: f = 5250 MHz;  $\sigma$  = 5.402 S/m;  $\epsilon_r$  = 48.05;  $\rho$  = 1000 kg/m3, Medium parameters used: f = 5600 MHz;  $\sigma$  = 5.703 S/m;  $\epsilon_r$  = 47.61;  $\rho$  = 1000 kg/m3, Medium parameters used: f = 5750 MHz;  $\sigma$  = 5.782 S/m;  $\epsilon_r$  = 47.49;  $\rho$  = 1000 kg/m3,

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 SN3617; ConvF(4.76, 4.76, 4.76) @ 5250 MHz; ConvF(4.23, 4.23, 4.23) @ 5600 MHz; ConvF(4.36, 4.36, 4.36) @ 5750 MHz; Calibrated: 1/31/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/22/2019
- Phantom: MFP\_V5.1C ; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 54.85 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 27.5 W/kg SAR(1 g) = 7.17 W/kg; SAR(10 g) = 2.04 W/kg

Maximum value of SAR (measured) = 16.4 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 56.17 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 32.3 W/kg SAR(1 g) = 7.62 W/kg; SAR(10 g) = 2.18 W/kg Maximum value of SAR (measured) = 18.4 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 55.47 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 33.2 W/kg SAR(1 g) = 7.39 W/kg; SAR(10 g) = 2.1 W/kg Maximum value of SAR (measured) = 18.1 W/kg

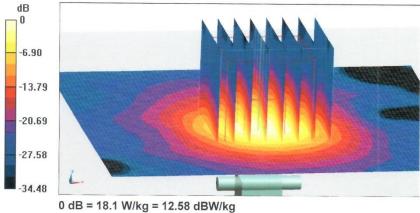
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0 dB = 10.1 W/kg = 12.30 dBW/kg

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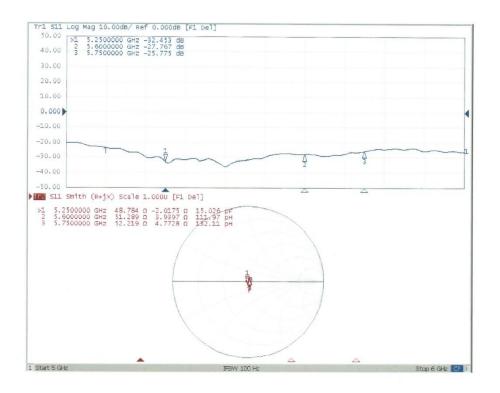






Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn

#### Impedance Measurement Plot for Body TSL



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# ANNEX J: Extended Calibration SAR Dipole

Referring to KDB865664 D01, if dipoles are verified in return loss (<-20dBm, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

## Justification of Extended Calibration SAR Dipole D835V2- serial no.4d057

Head							
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)	
2018-10-09	-27.7	/	49.6	/	-4.08	/	
2019-10-06	-26.9	2.9	50.1	0.5	-3.95	0.13	

Justification of Extended Calibration SAR Dipole D1900V2- serial no. 5d088

Head							
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)	
2018-10-24	-23.2	/	52.7	/	6.63	/	
2019-10-22	-22.9	1.3	53.5	0.8	6.86	0.23	

### Justification of Extended Calibration SAR Dipole D2450V2– serial no. 873

Head							
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)	
2018-10-26	-28.0	/	53.5	/	2.11	/	
2019-10-22	-27.3	2.5	54.4	0.9	2.29	0.18	

### Justification of Extended Calibration SAR Dipole D2550V2- serial no.1010

Head							
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (johm)	Delta (johm)	
2018-08-24	-25.7	/	54.9	/	-2.30	/	
2019-08-22	-24.8	3.5	55.8	0.9	-2.22	0.08	

The Return-Loss is <-20dB, and within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the value result should support extended cabration.





# **ANNEX K: Proximity sensor Power reduction information**

In this section, the following list is used to prepare an inquiry seeking SAR test guidance for proximity sensor power reduction. The procedure in KDB 616217 is applied for SAR testing.

# K.1. General proximity sensor implementation description

This device uses a proximity sensor that uses the SAR antenna to facilitate triggering in typical user interactivity with the device. Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the phone is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes to ensure SAR compliance for the following scenarios: To reduce the output power of main antennas during body close to phone.





# K.2. Antennas and sensor placement details

## K2.1. Antenna-to-antenna/user separation distances

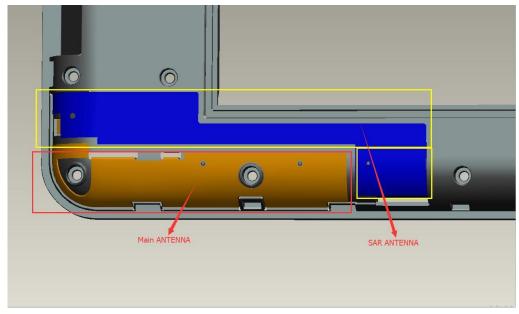


Figure K.1: The location of the antennas and proximity sensor

Note: The Div Antenna and GPS Antenna does not have the transmit function. The proximity sensor and SAR antenna use same metallic electrode, the SAR antenna is separated from the main antenna.

		Antenna/Sensor-to- DUT sides separation distances					
Tx Antenna	Front	Back	Left	Right	Тор	Bottom	
	side	side	side	side	side	side	
Main 2G&3G&4G	N1/A	15mm	15mm	N/A	N/A	5mm	
Antenna	N/A	TOILIII	TOHIH	N/A	N/A	Shim	
2.4G WiFi Antenna	N/A	N/A	N/A	N/A	N/A	N/A	
Diversity antenna	Only receive signal, so it was not figured out in the following pictures						
and GPS antenna	Unly rece	eive signal,	SO IT WAS NOT THE	jurea out in the fo	bilowing pictu	ires	





# K.3. Proximity sensor clarification

a⊡o		
SAR Senso	•	•

Figure K.2: The picture of the SAR sensor

## K.3.1. Description of proximity sensor Techniques

The proximity sensor is triggered by capacitance changes due to objects in the vicinity of the sensing element.

Capacitive proximity sensor share metallic electrode with the SAR antenna testing. The metallic electrode and SAR sensor chip works as a sensor. As is shown in Figure K.2.

The proximity sensor or the power reduction cannot be intentionally or unintentionally turned-off by the user.

The expected capacitance trigger values are programmed in each device for each power back-off stage. Capacitance trigger value is C1. When a certain object or human body approaches the DUT, if the measured capacitance is lower than C1, proximity sensor is not triggered. If the measured capacitance is equal to C1 or higher than C1, the power back-off is triggered.

There is a failure protection gear. If the SAR sensor fail, the detection of the SAR sensor signal is interrupted, it will jump to the failure protection gear to reduce power by a fixed maximum power reduction amplitude to ensure SAR compliance.

## K.3.2. Power Reduction operation table

The phone use MTK platform, which have some special NVs for SAR related max power back off, These NVs are used to set a new max power limit based proximity information and call configuration. When human body is in proximity and is detected by sensor, a new max power limit is set using the values stored in the NV. If Base station requests the higher output power above the limit, the power control algorithm inside modem chip will limit the power up to the preset power limit. If base station requests a lower output power less than the limit, the out power is controlled by base station.





# K.4. Proximity sensor coverage, distance and angle

Band	Test position	Sensor Trigger Distance range(DUT to Phantom)	Power reduction amount(dB)	Target Power level (dBm)
GSM850	Extremity SAR (Bottom/Back/Left)	held by hand 0mm	4	GPRS 1 Txslot:28.5 2 Txslot:27.5 3 Txslot:26 4 Txslot:25 EGPRS 1 Txslot:23.5 2 Txslot:22 3 Txslot:20
	Top side	ALL	0	4 Txslot:18.5 GPRS 1 Txslot:32.5 2 Txslot:31.5 3 Txslot:30 4 Txslot:29 EGPRS 1 Txslot:27.5 2 Txslot:26 3 Txslot:24 4 Txslot:22.5
	Back side	0 <distance≤15mm 15mm<distance< td=""><td>4</td><td>GPRS 1 Txslot:28.5 2 Txslot:27.5 3 Txslot:26 4 Txslot:25 EGPRS 1 Txslot:23.5 2 Txslot:22 3 Txslot:20 4 Txslot:18.5</td></distance<></distance≤15mm 	4	GPRS 1 Txslot:28.5 2 Txslot:27.5 3 Txslot:26 4 Txslot:25 EGPRS 1 Txslot:23.5 2 Txslot:22 3 Txslot:20 4 Txslot:18.5
			0	GPRS 1 Txslot:32.5 2 Txslot:31.5 3 Txslot:30 4 Txslot:29 EGPRS





				1 Txslot:27.5
				2 Txslot:26
				3 Txslot:24
				4 Txslot:22.5
				GPRS
				1 Txslot:28.5
				2 Txslot:27.5
				3 Txslot:26
		0 <distance≤15mm< td=""><td>4</td><td>4 Txslot:25</td></distance≤15mm<>	4	4 Txslot:25
			-	EGPRS
				1 Txslot:23.5
				2 Txslot:22
				3 Txslot:20
	Left side			4 Txslot:18.5
				GPRS
				1 Txslot:32.5
				2 Txslot:31.5
		15mm <distance< td=""><td></td><td>3 Txslot:30</td></distance<>		3 Txslot:30
				4 Txslot:29
			0	EGPRS
				1 Txslot:27.5
				2 Txslot:26
				3 Txslot:24
				4 Txslot:22.5
				GPRS
				1 Txslot:28.5
				2 Txslot:27.5
				3 Txslot:26
				4 Txslot:25
		0 <distance≤5mm< td=""><td>4</td><td>EGPRS</td></distance≤5mm<>	4	EGPRS
				1 Txslot:23.5
				2 Txslot:22
				3 Txslot:20
	Bottom side			4 Txslot:18.5
				GPRS
				1 Txslot:32.5
				2 Txslot:31.5
				3 Txslot:30
		5mm <distance< td=""><td>0</td><td>4 Txslot:29</td></distance<>	0	4 Txslot:29
				EGPRS
				1 Txslot:27.5
				2 Txslot:26
	Il rights reserved by SAICT		l	2 TXSI0I.20

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				3 Txslot:24
				4 Txslot:22.5
				GPRS
				1 Txslot:32.5
				2 Txslot:31.5
				3 Txslot:30
				4 Txslot:29
	Right side	ALL	0	EGPS
				1 Txslot:27.5
				2 Txslot:26
				3 Txslot:24
				4 Txslot:22.5
				GPRS
				1 Txslot:32.5
				2 Txslot:31.5
				3 Txslot:30
	Front side	A1 1	0	4 Txslot:29
		ALL	0	EGPS
				1 Txslot:27.5
				2 Txslot:26
				3 Txslot:24
				4 Txslot:22.5
		held by hand 0mm		GPRS
				1 Txslot:23
				2 Txslot:22
				3 Txslot:20.5
	Extremity		7	4 Txslot:19.5
	SAR(Bottom/Back/Left)		1	EGPS
				1 Txslot:19.5
				2 Txslot:18.5
				3 Txslot:16.5
PCS1900				4 Txslot:15.5
1 001000				GPRS
				1 Txslot:30
				2 Txslot:29
				3 Txslot:27.5
	Top side	ALL	0	4 Txslot:26.5
				EGPS
				1 Txslot:26.5
				2 Txslot:25.5
				3 Txslot:23.5
				4 Txslot:22.5

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			GPRS
			1 Txslot:23
			2 Txslot:22
			3 Txslot:20.5
			4 Txslot:19.5
	0 <distance≤15mm< td=""><td>7</td><td>EGPS</td></distance≤15mm<>	7	EGPS
			1 Txslot:19.5
			2 Txslot:18.5
			3 Txslot:16.5
			4 Txslot:15.5
Back side			GPRS
			1 Txslot:30
			2 Txslot:29
			3 Txslot:27.5
			4 Txslot:26.5
	15mm <distance< td=""><td>0</td><td>EGPS</td></distance<>	0	EGPS
			1 Txslot:26.5
			2 Txslot:25.5
			3 Txslot:23.5
			4 Txslot:22.5
			GPRS
			1 Txslot:23
			2 Txslot:22
			3 Txslot:20.5
	0 <distance≤15mm< td=""><td>7</td><td>4 Txslot:19.5</td></distance≤15mm<>	7	4 Txslot:19.5
		1	EGPS
			1 Txslot:19.5
			2 Txslot:18.5
			3 Txslot:16.5
Left side			4 Txslot:15.5
Lon side			GPRS
			1 Txslot:30
			2 Txslot:29
			3 Txslot:27.5
	15mm <distance< td=""><td>0</td><td>4 Txslot:26.5</td></distance<>	0	4 Txslot:26.5
			EGPS
			1 Txslot:26.5
			2 Txslot:25.5
			3 Txslot:23.5
			4 Txslot:22.5
Bottom side	0 <distance≤5mm< td=""><td>7</td><td>GPRS</td></distance≤5mm<>	7	GPRS

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Right side         ALL		<u>г</u>			T1			
Kight side       ALL       4 Txsiot:19.5         Formstale       1 Txsiot:19.5         2 Txsiot:16.5       3 Txsiot:16.5         3 Txsiot:16.5       4 Txsiot:30         2 Txsiot:29       3 Txsiot:27.5         3 Txsiot:25.5       3 Txsiot:27.5         4 Txsiot:26.5       2 Txsiot:29         3 Txsiot:27.5       4 Txsiot:26.5         2 Txsiot:25.5       3 Txsiot:27.5         3 Txsiot:26.5       2 Txsiot:26.5         2 Txsiot:26.5       3 Txsiot:27.5         4 Txsiot:26.5       2 Txsiot:26.5         2 Txsiot:27.5       3 Txsiot:27.5         4 Txsiot:26.5       2 Txsiot:26.5         2 Txsiot:27.5       3 Txsiot:27.5         4 Txsiot:26.5       2 Txsiot:26.5         2 Txsiot:26.5       3 Txsiot:27.5         3 Txsiot:27.5       4 Txsiot:26.5         2 Txsiot:26.5       3 Txsiot:27.5         3 Txsiot:27.5       4 Txsiot:26.5         2 Txsiot:26.5       3 Txsiot:27.5         4 Txsiot:26.5       2 Txsiot:26.5         3 Txsiot:27.5       4 Txsiot:26.5         3 Txsiot:27.5       4 Txsiot:26.5         2 Txsiot:27.5       3 Txsiot:27.5         4 Txsiot:26.5       2 Txsiot:26.5         2 Txsio					2 Txslot:22			
Right side         ALL         EGPS           1 Txslot19.5         2 Txslot18.5           3 Txslot16.5         3 Txslot16.5           4 Txslot15.5         GPRS           1 Txslot20         2 Txslot2.5           2 Txslot2.5         3 Txslot2.5           2 Txslot2.5         3 Txslot2.5           2 Txslot2.5         3 Txslot2.5           2 Txslot2.5         3 Txslot2.5           3 Txslot2.5					3 Txslot:20.5			
Right side         ALL					4 Txslot:19.5			
Right sideALL2 Txslot:18.5 3 Txslot:16.5 4 Txslot:15.5 4 Txslot:25.5 3 Txslot:27.5 4 Txslot:26.5 E GPRS 1 Txslot:26.5 2 Txslot:25.5 3 Txslot:23.5 4 Txslot:26.5 2 Txslot:23.5 4 Txslot:26.5 2 Txslot:25.5 3 Txslot:27.5 4 Txslot:26.5 2 Txslot:25.5 4 Txslot:26.5 2 Txslot:25.5 4 Txslot:26.5 2 Txslot:25.5 4 Txslot:26.5 2 Txslot:25.5 4 Txslot:26.5 2 Txslot					EGPS			
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WCDMA         Extremity         held by hand 0mm         7         16           WCDMA         Extremity         held by hand 0mm         7         16		Right side		0	EGPS			
WCDMA         Extremity         All         3 Txslot:23.5         3 Txslot:22.5         4 Txslot:22.5         4 Txslot:22.5         1 Txslot:30         2 Txslot:29         3 Txslot:27.5         1 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         2 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         2 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         2 Txslot:26.5         3 Txslot:27.5         4 Txslot:26.5         3 Txslot:26.5         3 Txslot:26.5         3 Txslot:26.5         3 Txslot:26.5         3 Txslot:26.5         3 Txslot:22.5         3 T					1 Txslot:26.5			
WCDMAExtremity SAR(Bottom/Back/Left)Meld by hand 0mm74 Txslot:22.5Hardback/Left)1 Txslot:302 Txslot:29Held by hand 0mm3 Txslot:27.54 Txslot:26.5Held by hand 0mm716					2 Txslot:25.5			
WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm71 Txslot:20ALL02 Txslot:293 Txslot:27.54 Txslot:26.54 Txslot:26.52 Txslot:26.53 Txslot:27.53 Txslot:26.51 Txslot:26.52 Txslot:26.51 Txslot:26.52 Txslot:27.51 Txslot:26.52 Txslot:26.51 Txslot:26.52 Txslot:27.51 Txslot:26.52 Txslot:27.52 Txslot:27.51 Txslot:26.52 Txslot:27.51 Txslot:26.52 Txslot:27.51 Txslot:26.52 Txslot:27.51 Txslot:26.52 Txslot:25.51 Txslot:26.53 Txslot:23.51 Txslot:26.53 Txslot:23.51 Txslot:26.52 Txslot:23.51 Txslot:26.53 Txslot:23.51 Txslot:26.54 Txslot:26.51 Txslot:26.53 Txslot:27.51 Txslot:26.53 Txslot:23.51 Txslot:26.54 Txslot:26.51 Txslot:26.54 Txslot:26.51 Txslot:26.54 Txslot:26.51 Txslot:26.54 Txslot:26.51 Txslot:26.54 Txslot:26.51 Txslot:26.54					3 Txslot:23.5			
WCDMA B2Extremity SAR(Bottom/Back/Left)held by hand 0mm71 Txslot:30 2 Txslot:29 3 Txslot:27.5 4 Txslot:26.5 2 Txslot:25.5 3 Txslot:23.5 4 Txslot:23.5					4 Txslot:22.5			
Front sideALL2 Txslot:29ALL3 Txslot:27.54 Txslot:26.5EGPS1 Txslot:26.52 Txslot:25.53 Txslot:25.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.54 Txslot:22.55 Top sideALL023					GPRS			
Front sideALL3 Txslot:27.54 Txslot:26.54 Txslot:26.5EGPS1 Txslot:26.52 Txslot:25.52 Txslot:25.53 Txslot:23.53 Txslot:23.54 Txslot:22.53 Txslot:23.54 Txslot:22.53 Txslot:22.5WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm7B2Top sideALL023					1 Txslot:30			
Front sideALL04 Txslot:26.5EGPS1 Txslot:26.51 Txslot:26.52 Txslot:25.52 Txslot:25.53 Txslot:23.53 Txslot:23.54 Txslot:22.54 Txslot:22.5WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm716B2Top sideALL023					2 Txslot:29			
Front sideALL0EGPS1 Txslot:26.51 Txslot:26.52 Txslot:25.53 Txslot:23.53 Txslot:23.53 Txslot:23.54 Txslot:22.54 Txslot:22.5WCDMASAR(Bottom/Back/Left)held by hand 0mm716B2Top sideALL023					3 Txslot:27.5			
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WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm72 Txslot:25.5 3 Txslot:23.5 4 Txslot:22.5B2Top sideALL023					EGPS			
WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm73 Txslot:23.5 4 Txslot:22.5B2Top sideALL023								
WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm74 Txslot:22.5B2Top sideALL023					2 Txslot:25.5			
WCDMAExtremity SAR(Bottom/Back/Left)held by hand 0mm716B2Top sideALL023					3 Txslot:23.5			
WCDMASAR(Bottom/Back/Left)neid by hand 0mm716B2Top sideALL023					4 Txslot:22.5			
B2 Top side ALL 0 23	WCDMA		held by hand 0mm	7	16			
	B2		ALL	0	23			
			0 <distance≤15mm< td=""><td>7</td><td>16</td></distance≤15mm<>	7	16			

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		15mm <distance< th=""><th>0</th><th>23</th></distance<>	0	23
		0 <distance≤15mm< td=""><td>7</td><td>16</td></distance≤15mm<>	7	16
	Left side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Detter side	0 <distance≤5mm< td=""><td>7</td><td>16</td></distance≤5mm<>	7	16
	Bottom side	5mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Right side	ALL	0	23
	Front side	ALL	0	23
	Extremity SAR(Bottom/Back/Left)	held by hand 0mm	1	21.5
	Top side	ALL	0	22.5
	De la che	0 <distance≤15mm< td=""><td>1</td><td>21.5</td></distance≤15mm<>	1	21.5
	Back side	15mm <distance< td=""><td>0</td><td>22.5</td></distance<>	0	22.5
WCDMA		0 <distance≤15mm< td=""><td>1</td><td>21.5</td></distance≤15mm<>	1	21.5
B5	Left side	15mm <distance< td=""><td>0</td><td>22.5</td></distance<>	0	22.5
	Bottom side Right side	0 <distance≤5mm< td=""><td>1</td><td>21.5</td></distance≤5mm<>	1	21.5
Right s	Bottom side	5mm <distance< td=""><td>0</td><td>22.5</td></distance<>	0	22.5
	Right side	ALL	0	22.5
	Front side	ALL	0	22.5
	Extremity SAR(Bottom/Back/Left)	held by hand 0mm	7.5	15.5
-	Top side	ALL	0	23
	Deals aide	0 <distance≤15mm< td=""><td>7.5</td><td>15.5</td></distance≤15mm<>	7.5	15.5
	Back side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
LTE B2		0 <distance≤15mm< td=""><td>7.5</td><td>15.5</td></distance≤15mm<>	7.5	15.5
	Left side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Detter side	0 <distance≤5mm< td=""><td>7.5</td><td>15.5</td></distance≤5mm<>	7.5	15.5
	Bottom side	5mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Right side	ALL	0	23
	Front side	ALL	0	23
	Extremity SAR(Bottom/Back/Left)	held by hand 0mm	7.5	15.5
	Top side	ALL	0	23
	Pook side	0 <distance≤15mm< td=""><td>7.5</td><td>15.5</td></distance≤15mm<>	7.5	15.5
	Back side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
LTE B4		0 <distance≤15mm< td=""><td>7.5</td><td>15.5</td></distance≤15mm<>	7.5	15.5
	Left side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Detter side	0 <distance≤5mm< td=""><td>7.5</td><td>15.5</td></distance≤5mm<>	7.5	15.5
	Bottom side	5mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Right side	ALL	0	23
	Front side	ALL	0	23
LTE B5	Extremity SAR(Bottom/Back/Left)	held by hand 0mm	1	22



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	Top side	ALL	0	23
	Dools oido	0 <distance≤15mm< td=""><td>1</td><td>22</td></distance≤15mm<>	1	22
	Back side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Left side	0 <distance≤15mm< td=""><td>1</td><td>22</td></distance≤15mm<>	1	22
	Lett side	15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Bottom side	0 <distance≤5mm< td=""><td>1</td><td>22</td></distance≤5mm<>	1	22
	DOLLOTT SIDE	5mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Right side	ALL	0	23
	Front side	ALL	0	23
	Extremity SAR(Bottom/Back/Left)	held by hand 0mm	7.5	16.5
	Top side	ALL	0	24
-	Deelkeide	0 <distance≤15mm< td=""><td>7.5</td><td>16.5</td></distance≤15mm<>	7.5	16.5
	Back side	15mm <distance< td=""><td>0</td><td>24</td></distance<>	0	24
LTE B7	Left side	0 <distance≤15mm< td=""><td>7.5</td><td>16.5</td></distance≤15mm<>	7.5	16.5
	Lett side	15mm <distance< td=""><td>0</td><td>24</td></distance<>	0	24
	Bottom side	0 <distance≤5mm< td=""><td>7.5</td><td>16.5</td></distance≤5mm<>	7.5	16.5
	DOLLOTT SIDE	5mm <distance< td=""><td>0</td><td>24</td></distance<>	0	24
	Right side	ALL	0	24
	Front side	ALL	0	24
	Extremity SAR(Bottom/Back/Left)	held by hand 0mm	7	16
	Top side	ALL	0	23
	Back side	0 <distance≤15mm< td=""><td>7</td><td>16</td></distance≤15mm<>	7	16
		15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
LTE B38	Left side	0 <distance≤15mm< td=""><td>7</td><td>16</td></distance≤15mm<>	7	16
		15mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Bottom side	0 <distance≤5mm< td=""><td>7</td><td>16</td></distance≤5mm<>	7	16
		5mm <distance< td=""><td>0</td><td>23</td></distance<>	0	23
	Right side	ALL	0	23
	Front side	ALL	0	23





# ANNEX L: Sensor Triggering Data Summary

Per FCC KDB Publication 616217 D04, this device was tested by the manufacturer to determine the proximity sensor triggering distances for all applicable sides and edges of the device. The measured output power at distances within  $\pm 5$  mm of the triggering points (or until touching the phantom) is included for back side and each applicable edge per Step i) in Section 6.2 of the KDB. The technical descriptions in the filing contain the complete set of triggering data required by Section 6 of FCC KDB Publication 616217 D04.

To ensure all production units are compliant, it is necessary to test SAR at a distance 1 mm less than the smallest distance between the device and SAR phantom with the device at the maximum output power (without power reduction). These SAR tests are included in addition to the SAR tests for the device touching the SAR phantom (at the reduced output power level).

We tested the power and got the different proximity sensor triggering distances for rear, left and bottom side. The manufacturer has declared 15mm is the most conservative triggering distance for main antenna with rear side, 15mm distance for left side and 5mm distance for bottom side.

The operational description contains information explaining how this device remains compliant in the event of a sensor malfunction.

### Main Antenna

### Rear Side

Moving device toward the phantom:

Distance(mm)	20	19	18	17	16	15	14	13	12	11	10
Main Antenna	/	/	/	/	/	20.97	20.98	20.99	21.00	20.98	21.01

### Moving device away from the phantom:

Distance(mm)	20	19	18	17	16	15	14	13	12	11	10
Main Antenna	23.94	24.00	23.99	23.98	23.96	/	/	/	/	/	/

Based on the most conservative measured triggering distance of 15 mm, additional SAR measurements were required at 14 mm from the Rear side for the above modes.

### Left Side

Moving device toward the phantom:

Distance(mm)	20	19	18	17	16	15	14	13	12	11	10
Main Antenna	/	/	/	/	/	20.95	20.99	21.00	21.01	20.98	21.00

### Moving device away from the phantom:

<u> </u>											
Distance(mm)	20	19	18	17	16	15	14	13	12	11	10
Main Antenna	23.96	24.00	23.97	23.98	23.95	/	/	/	/	/	/

Based on the most conservative measured triggering distance of 15 mm, additional SAR measurements were required at 14 mm from the left side for the above modes.





## **Bottom Side**

Moving device toward the phantom:

Distance(mm)	10	9	8	7	6	5	4	3	2	1	0
Main Antenna	/	/	/	/	/	20.99	20.96	21.00	20.98	20.95	20.99
Moving device a	Moving device away from the phantom:										
Distance(mm)	10	9	8	7	6	5	4	3	2	1	0
Main Antenna	24.00	20.96	23.97	23.99	24.00	/	/	/	/	/	/

Based on the most conservative measured triggering distance of 5 mm, additional SAR measurements were required at 4 mm from the bottom side for the above modes.





# **ANNEX M: Accreditation Certificate**



\*\*\*END OF REPORT\*\*\*