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PART 0 SAR CHAR REPORT

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 06/28/21 - 07/13/21
Test Site/Location:
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APPLICANT: SAMSUNG ELECTRONICS CO., LTD

Report Type: Part 0 SAR Characterization
DUT Type: Portable Handset
Model(s): SC-55B, SCG11

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Test results reported herein relate only to the item(s) tested.

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.


 Randy Ortanez
 President








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1 DEVICE UNDER TEST

1.1 Device Overview




Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6525 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G WWAN operations. Additionally, this device supports WLAN/BT/NFC technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

1.2 Time-Averaging for SAR and Power Density

This device is enabled with Qualcomm® Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G Characterization is achieved by determining P_{Limit} for 2G/3G/4G that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR_design_target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 1.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time-varying)

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transmission scenario for WWAN technologies are reported in Part 2 report (report SN could be found in Section 1.4 – Bibliography).

1.3 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub-6 NR	P_{limit}	Power level that corresponds to the exposure design target (SAR_{design_target}) after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	SAR_{design_target}	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR_{Char}	Table containing P_{limit} for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
FCC SAR Evaluation Report (Part 1)	1M2106230070-01.A3L

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2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

σ	=	conductivity of the tissue-simulating material (S/m)
ρ	=	mass density of the tissue-simulating material (kg/m ³)
E	=	Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

2.2 SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

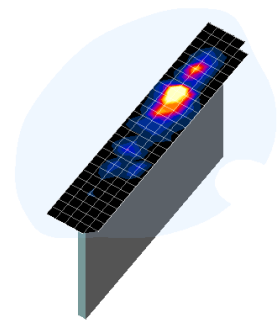





Figure 2-1
Sample SAR Area Scan




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3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 2-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

**Table 2-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04***

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{area}, \Delta y_{area}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{zoom}, \Delta y_{zoom}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)^*$	$\Delta z_{zoom}(n>1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{zoom}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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3.1 DSI and SAR Determination



This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 3-1
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head – Folder Open (DSI = 3)	<ul style="list-style-type: none"> ▪ Device positioned next to head ▪ Receiver Active ▪ Folder Open 	<i>Head SAR per KDB Publication 648474 D04</i>
Head – Folder Closed (DSI = 4)	<ul style="list-style-type: none"> ▪ Device positioned next to head ▪ Receiver Active ▪ Folder Closed 	<i>Head SAR per KDB Publication 648474 D04</i>
Hotspot mode – Folder Open (DSI = 5)	<ul style="list-style-type: none"> ▪ Device transmits in hotspot mode near body ▪ Hotspot Mode Active ▪ Folder Open 	<i>UMPC Mini-Tablet SAR per KDB 941225 D07v01r02</i>
Hotspot mode – Folder Closed (DSI = 6)	<ul style="list-style-type: none"> ▪ Device transmits in hotspot mode near body ▪ Hotspot Mode Active ▪ Folder Closed 	<i>Hotspot SAR per KDB Publication 941225 D06</i>
Extremity Grip – Folder Open (DSI=1 or 7)	<ul style="list-style-type: none"> ▪ Device is held with hand and grip sensor is triggered ▪ Grip sensor triggered or earjack is active ▪ Folder Open 	<i>Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04</i>
Phablet Grip – Folder Closed (DSI=2 or 8)	<ul style="list-style-type: none"> ▪ Device is held with hand and grip sensor is triggered ▪ Grip sensor triggered or earjack is active ▪ Folder Closed 	<i>Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04</i>
Extremity – Folder Open (DSI = 0)	<ul style="list-style-type: none"> ▪ Device is held with hand and grip sensor is not triggered ▪ Distance grip sensor not triggered ▪ Folder Open 	<i>UMPC Mini-Tablet SAR per KDB 941225 D07v01r02</i>
Phablet – Folder Closed (DSI = 11)	<ul style="list-style-type: none"> ▪ Device is held with hand and grip sensor is not triggered ▪ Distance grip sensor not triggered ▪ Folder Closed 	<i>Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04</i>
Body-worn – Folder Open (DSI = 0)	<ul style="list-style-type: none"> ▪ Device being used with a body-worn accessory ▪ Folder Open 	<i>UMPC Mini-Tablet SAR per KDB 941225 D07v01r02</i>
Body-worn – Folder Closed (DSI = 11)	<ul style="list-style-type: none"> ▪ Device being used with a body-worn accessory ▪ Folder Closed 	<i>Body-worn SAR per KDB Publication 648474 D04</i>

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3.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 3-2).




Table 3-2
***SAR_design_target* Calculations**

<i>SAR_design_target</i>			
$SAR_design_target < SAR_regulatory_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR (W/kg)		10g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB	<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg	<i>SAR_regulatory_limit</i>	4.0 W/kg
<i>SAR_design_target</i>	1.0 W/kg	<i>SAR_design_target</i>	2.5 W/kg

3.3 SAR Char

SAR test results corresponding to *Pmax* for each antenna/technology/band/DSI can be found in Appendix A.

Plimit is calculated by linearly scaling with the measured SAR at the *Ppart0* to correspond to the *SAR_design_target*. When *Plimit* < *Pmax*, *Ppart0* was used as *Plimit* in the Smart Transmit EFS. When *Plimit* > *Pmax* and *Ppart0*=*Pmax*, calculated *Plimit* was used in the Smart Transmit EFS. All reported SAR obtained from the *Ppart0* SAR tests was less than *SAR_Design_target*+ 1 dB Uncertainty. The final *Plimit* determination for each exposure scenario corresponding to *SAR_design_target* are shown in Table 3-3.

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**Table 3-3
PLimit Determination**

Device State Index (DSI)	PLimit Determination Scenarios
0 or 11	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: <ol style="list-style-type: none"> 1. UMPC 1g SAR folder open <ol style="list-style-type: none"> a. Measured at 12 and 16 mm fro back and bottom surfaces respectively. b. Measured at 10 mm for front, left and right surfaces. 2. Body Worn SAR folder closed. 3. UMPC 10g SAR folder open. <ol style="list-style-type: none"> a. Measured at 12, 9 and 16 mm for back, front, and bottom surfaces respectively. b. Measured at 0 mm for left and right surfaces 4. Extremity SAR folder closed. <ol style="list-style-type: none"> a. Measured at 10 and 12 mm spacing for back and bottom respectively b. Measured at 0 mm for front, left and right surfaces
1 or 7	P_{limit} is calculated based on 1g Body SAR at 10 mm for back and bottom surfaces and 10g Extremity SAR at 0 mm for back, front, and bottom surfaces with folder open
2 or 8	P_{limit} is calculated based on 10g Extremity SAR at 0 mm for back, front, and bottom surfaces with folder closed
3 or 4	P_{limit} is calculated based on 1g Head SAR
5 or 6	P_{limit} is calculated based on 1g Hotspot SAR at 10 mm

Note:

For DSI = 0, P_{limit} is calculated by:

$$P_{limit} = \min\{ P_{limit} \text{ corresponding to 1g Body Worn SAR evaluation at 15 mm spacing,} \\ P_{limit} \text{ corresponding to 1g Body SAR evaluation at 10 mm spacing for front, right and left surfaces} \\ P_{limit} \text{ corresponding to 1g Body SAR evaluation at 12~16 mm spacing,} \\ P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 9~16 mm spacing,} \\ P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 0 mm for left and right surfaces} \}$$




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**Table 3-4
SAR Characterizations**

Exposure Scenario:		Body-Worn	Phablet	Body	Extremity	Grip Sensor Active		Head		Hotspot		Earjack		Maximum Tune-up Output Power*
Averaging Volume:		1g	10g	1g	10g	10g	1g, 10g	1g	1g	1g	1g	10g	10g	
Spacing:		15 mm	10, 12 mm	12, 10, 16 mm	12, 9, 16 mm	0 mm	10, 0 mm	0 mm	0 mm	10 mm	10 mm	0 mm	0 mm	
DSI:		11	11	0	0	2	1	4	3	6	5	8	7	
Configuration		Folder Closed		Folder Open		Folder Closed	Folder Open	Folder Closed	Folder Open	Folder Closed	Folder Open	Folder Closed	Folder Open	
Technology/Band	Antenna	P _{limit} corresponding to 1mW/g (SAR design target)												P _{max}
GSM/GPRS/EDGE 850 MHz	A, A+B	30.5		29.9		29.6	27.8	32.3	32.3	30.9	27.8	29.6	27.8	25.3
GSM/GPRS/EDGE 1900 MHz	B	26.4		23.6		17.3	17.3	34.8	34.8	17.3	17.3	17.3	17.3	22.1
UMTS B5	A, A+B	28.4		29.3		28.4	28.2	32.7	32.7	29.6	28.2	28.4	28.2	24.8
LTE FDD B12	A, A+B	27.6		28.0		27.6	28.0	32.8	32.8	28.7	28.0	27.6	28.0	24.8
LTE FDD B13	A, A+B	28.1		28.8		28.1	27.9	33.5	33.5	29.7	27.9	28.1	27.9	24.8
LTE FDD B5	A, A+B	27.1		28.7		27.1	27.9	33.1	33.1	30.0	28.1	27.1	28.1	24.8
LTE FDD B4	B	27.8		25.9		18.0	18.0	35.3	35.3	18.0	18.0	18.0	18.0	24.5
LTE TDD B41	B	28.8		23.5		16.0	16.0	33.8	33.8	16.0	16.0	16.0	16.0	20.0

Notes:




1. For all modes/bands, when Hotspot Mode (DSI=5,6) and Extremity sensor (DSI=1, 2) are triggered at the same time, DSI=1, 2 takes priority, thus the P_{limit} for DSI=1, 2 is set to be less or equal to P_{limit} for DSI=5, 6.
2. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .
3. P_{limit} for DSI=1 and DSI =7 are the same.
4. P_{limit} for DSI=2 and DSI =8 are the same.

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5 MEASUREMENT UNCERTAINTIES

For SAR Measurements

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS						12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2						24.4	24.0	

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