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PART 0 SAR CHAR REPORT

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Date of Testing:
 01/17/21 - 01/25/21
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FCC ID: A3LSMG998JPN

APPLICANT: SAMSUNG ELECTRONICS CO., LTD

Report Type: Part 0 SAR Characterization
DUT Type: Portable Handset
Model(s): SC-52B

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.


 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
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 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.

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2.1 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. 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.

2.2 Nomenclature for Part 0 Report

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

2.3 Bibliography

Report Type	Report Serial Number
FCC SAR Evaluation Report (Part 1)	1M2101110003-01.A3L

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SAR AND POWER DENSITY MEASUREMENTS

3.1 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 3-1).

Equation 3-1
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/m³)
- 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]

3.2 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 3-1) and IEEE 1528-2013.
2. Table 3-1) and IEEE 1528-2013.
3. 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.

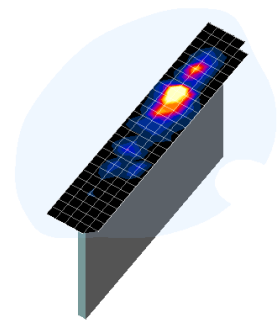





Figure 3-1
Sample SAR Area Scan



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4. 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
5. Table 3-1) 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
 - b. Table 3-1. 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).
 - c. 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.
 - d. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
6. 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 3-1
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		
				$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)^*$	
≤ 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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SAR CHARACTERIZATION

4.1 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 4-1
DSI and Corresponding Exposure Scenarios**




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

4.2 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 4-2
SAR_{design_target} Calculations**

SAR _{design_target}			
$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-Total\ Uncertainty}{10}}$			
1g SAR (W/kg)		10g SAR (W/kg)	
Total Uncertainty	1.0 dB	Total Uncertainty	1.0 dB
SAR _{regulatory_limit}	1.6 W/kg	SAR _{regulatory_limit}	4.0 W/kg
SAR _{design_target}	1.0 W/kg	SAR _{design_target}	2.5 W/kg

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4.3 SAR Char

SAR test results corresponding to P_{max} for each antenna/technology/band/DSI can be found in Appendix A.

P_{limit} is calculated by linearly scaling with the measured SAR at the P_{part0} to correspond to the SAR_{design_target} . When $P_{limit} < P_{max}$, P_{part0} was used as P_{limit} in the Smart Transmit EFS. When $P_{limit} > P_{max}$ and $P_{part0}=P_{max}$, calculated P_{limit} was used in the Smart Transmit EFS. All reported SAR obtained from the P_{part0} SAR tests was less than $SAR_{Design_target} + 1$ dB Uncertainty. The final P_{limit} determination for each exposure scenario corresponding to SAR_{design_target} are shown in Table 3-3.




**Table 4-3
PLimit Determination**

Device State Index (DSI)	PLimit Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Body Worn SAR 2. Extremity SAR measured at 8, 6 and 11 mm spacing for back, front, bottom respectively 3. Extremity SAR measured at 0 mm for left and right surfaces
6 or 4	P_{limit} is calculated based on 10g Extremity SAR at 0 mm for back, front, and bottom surfaces
2	P_{limit} is calculated based on 1g Head SAR
3	P_{limit} is calculated based on 1g Hotspot SAR at 10 mm

Note:

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

$$P_{limit} = \min\{ P_{limit} \text{ corresponding to 1g Body Worn SAR evaluation at 15 mm spacing, } P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 6~11 mm spacing, } P_{limit} \text{ corresponding to 10g Extremity SAR evaluation at 0 mm for left and right surfaces} \}$$




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**Table 4-4
SAR Characterizations**

Exposure Scenario:		Body-Worn	Phablet	Phablet	Head	Hotspot	Earjack	Maximum Tune-up Output Power*
Averaging Volume:		1g	10g	10g	1g	1g	10g	
Spacing:		15 mm	8, 6, 11 mm	0 mm	0 mm	10 mm	0 mm	
DSI:		0	0	6	2	3	4	
Technology/Band	Antenna	P _{limit} corresponding to 1mW/g (SAR _{design_target})						P _{max}
GSM/GPRS/EDGE 850 MHz	A	31.8	27.6	35.1	27.6	27.6	24.8	
GSM/GPRS/EDGE 1900 MHz	A	26.3	17.8	33.1	17.8	17.8	21.3	
UMTS B5	A	31.7	27.0	34.1	27.0	27.0	24.5	
LTE FDD B12	A	33.1	27.4	34.5	27.4	27.4	23.0	
LTE FDD B13	A	31.3	28.4	33.0	28.4	28.4	23.0	
LTE FDD B5	A	31.3	28.2	33.9	28.1	28.2	24.8	
LTE FDD B4	A	26.3	18.5	33.6	18.5	18.5	23.0	
LTE TDD B41	B	26.8	19.0	34.9	19.0	19.0	22.0	

Notes:

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

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EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051400187
Agilent	85033E	3.5mm Standard Calibration Kit	6/6/2020	Annual	6/6/2021	MY63402352
Agilent	E5151C	8960 Series 10 Wireless Communications Test Set	2/10/2020	Annual	2/10/2021	GB42282325
Agilent	E4438C	ESG Vector Signal Generator	12/14/2020	Biennial	12/14/2022	MY42082385
Agilent	E4438C	ESG Vector Signal Generator	8/10/2020	Annual	8/10/2021	MY47270002
Agilent	N5182A	MXG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY47420603
Agilent	N5182A	MXG Vector Signal Generator	2/19/2020	Annual	2/19/2021	MY47420651
Agilent	8753ES	S-Parameter Network Analyzer	9/16/2020	Annual	9/16/2021	MY40000670
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/15/2020	Annual	12/15/2021	MY40003841
Agilent	E5151C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB43304447
Agilent	E5151C	Wireless Communications Test Set	2/26/2020	Annual	2/26/2021	GB44400860
Agilent	N4010A	Wireless Connectivity Test Set	CBT	N/A	CBT	GB44450273
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	353317
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	353468
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2495A	Power Meter	1/18/2021	Annual	1/18/2022	941001
Anritsu	ML2496A	Power Meter	2/13/2020	Annual	2/13/2021	1306009
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	MA2411B	Pulse Power Sensor	7/28/2020	Annual	7/28/2021	1339018
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	6200901190
Anritsu	MT8820C	Radio Communication Analyzer	9/17/2020	Annual	9/17/2021	6201300731
Anritsu	MT8821C	Radio Communication Analyzer	6/15/2020	Annual	6/15/2021	6201381794
Anritsu	MA24106A	USB Power Sensor	1/15/2021	Annual	1/15/2022	1344554
Anritsu	MA24106A	USB Power Sensor	6/8/2020	Annual	6/8/2021	1344555
Anritsu	MA24106A	USB Power Sensor	7/24/2020	Annual	7/24/2021	1344556
Anritsu	MT8862A	Wireless Connectivity Test Set	10/29/2020	Annual	10/29/2021	6261782395
COMTECH	AR85729-S	Solid State Amplifier	CBT	N/A	CBT	M155A00-009
COMTECH	AR85729-S/5798B	Solid State Amplifier	CBT	N/A	CBT	MV4A00-1002
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282739
Control Company	4352	Long Stem Thermometer	5/16/2020	Biennial	5/16/2022	200294604
Control Company	4040	Therm./Clock/Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	N6705B	DC Power Analyzer	4/27/2019	Biennial	4/27/2021	MY53004059
Keysight Technologies	N9200A	MXA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	1445
Pasternack	NC-100	Torque Wrench	12/1/2020	Annual	12/1/2021	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	6/25/2020	Annual	6/25/2021	140148
Rohde & Schwarz	CMW500	Radio Communication Tester	10/27/2020	Annual	10/27/2021	166462
Rohde & Schwarz	CMW500	Radio Communication Tester	4/23/2020	Annual	4/23/2021	167283
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/14/2020	Annual	10/14/2021	1091
SPEAG	DAK-12	Dielectric Assessment Kit (10MHz - 3GHz)	3/17/2020	Annual	3/17/2021	1102
SPEAG	DAK-3.5	Dielectric Parameter Probes	12/29/2020	Annual	12/29/2021	1278
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Annual	3/16/2021	1003
SPEAG	D750V3	750 MHz SAR Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Biennial	3/13/2021	4d047
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	4d133
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Triennial	10/22/2021	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d080
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	5d149
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2020	Annual	8/14/2021	719
SPEAG	D2450V2	2450 MHz SAR Dipole	9/9/2020	Annual	9/9/2021	797
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D5GH2V2	5 GHz SAR Dipole	9/10/2020	Annual	9/10/2021	1191
SPEAG	D5GH2V2	5 GHz SAR Dipole	8/10/2018	Triennial	8/10/2021	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/15/2020	Annual	7/15/2021	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2020	Annual	6/18/2021	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2020	Annual	9/10/2021	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/11/2020	Annual	8/11/2021	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/7/2020	Annual	12/7/2021	1533
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	EX30V4	SAR Probe	7/31/2020	Annual	7/31/2021	7308
SPEAG	EX30V4	SAR Probe	4/21/2020	Annual	4/21/2021	7357
SPEAG	EX30V4	SAR Probe	6/23/2020	Annual	6/23/2021	7406
SPEAG	EX30V4	SAR Probe	6/23/2020	Annual	6/23/2021	7409
SPEAG	EX30V4	SAR Probe	7/20/2020	Annual	7/20/2021	7410
SPEAG	EX30V4	SAR Probe	10/20/2020	Annual	10/20/2021	7539
SPEAG	EX30V4	SAR Probe	9/11/2020	Annual	9/11/2021	7552
SPEAG	EX30V4	SAR Probe	12/11/2020	Annual	12/11/2021	7571

Note:

1. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
2. Each equipment item was used solely within its respective calibration period.




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MEASUREMENT UNCERTAINTIES

For SAR Measurements

a	c	d	e = f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS					11.5	11.3	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2					23.0	22.6	

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APPENDIX A: SAR TEST RESULTS FOR P_{LIMIT} CALCULATIONS

Table A-1
DSI = 2 P_{Limit} Calculations – 2G/3G Head SAR

MEASUREMENT RESULTS										
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Side	Test Position	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.							(W/kg)	[dBm]	[dBm]
836.60	190	GSM 850	GSM	33.29	Right	Cheek	1:8.3	0.079	35.11	35.11
836.60	190	GSM 850	GSM	33.29	Right	Tilt	1:8.3	0.034	38.77	
836.60	190	GSM 850	GSM	33.29	Left	Cheek	1:8.3	0.052	36.93	
836.60	190	GSM 850	GSM	33.29	Left	Tilt	1:8.3	0.033	38.90	
1880.00	661	GSM 1900	GSM	29.64	Right	Cheek	1:8.3	0.034	35.12	33.11
1880.00	661	GSM 1900	GSM	29.64	Right	Tilt	1:8.3	0.027	36.13	
1880.00	661	GSM 1900	GSM	29.64	Left	Cheek	1:8.3	0.054	33.11	
1880.00	661	GSM 1900	GSM	29.64	Left	Tilt	1:8.3	0.030	35.67	
836.60	4183	UMTS 850	RMC	24.51	Right	Cheek	1:1	0.111	34.06	34.06
836.60	4183	UMTS 850	RMC	24.51	Right	Tilt	1:1	0.050	37.52	
836.60	4183	UMTS 850	RMC	24.51	Left	Cheek	1:1	0.077	35.65	
836.60	4183	UMTS 850	RMC	24.51	Left	Tilt	1:1	0.050	37.52	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




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Table A-2
DSI = 2 P_{Limit} Calculations – 4G Head SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
707.5	23095	Mid	LTE Band 12	10	23.30	0	Right	Cheek	QPSK	1	0	1:1	0.074	34.61	34.50
707.5	23095	Mid	LTE Band 12	10	22.28	1	Right	Cheek	QPSK	25	12	1:1	0.060	34.50	
707.5	23095	Mid	LTE Band 12	10	23.30	0	Right	Tilt	QPSK	1	0	1:1	0.032	38.25	
707.5	23095	Mid	LTE Band 12	10	22.28	1	Right	Tilt	QPSK	25	12	1:1	0.024	38.48	
707.5	23095	Mid	LTE Band 12	10	23.30	0	Left	Cheek	QPSK	1	0	1:1	0.057	35.74	
707.5	23095	Mid	LTE Band 12	10	22.28	1	Left	Cheek	QPSK	25	12	1:1	0.038	36.48	
707.5	23095	Mid	LTE Band 12	10	23.30	0	Left	Tilt	QPSK	1	0	1:1	0.024	39.50	
707.5	23095	Mid	LTE Band 12	10	22.28	1	Left	Tilt	QPSK	25	12	1:1	0.017	39.98	
782.0	23230	Mid	LTE Band 13	10	22.96	0	Right	Cheek	QPSK	1	49	1:1	0.094	33.23	32.99
782.0	23230	Mid	LTE Band 13	10	22.13	1	Right	Cheek	QPSK	25	12	1:1	0.082	32.99	
782.0	23230	Mid	LTE Band 13	10	22.96	0	Right	Tilt	QPSK	1	49	1:1	0.045	36.43	
782.0	23230	Mid	LTE Band 13	10	22.13	1	Right	Tilt	QPSK	25	12	1:1	0.037	36.45	
782.0	23230	Mid	LTE Band 13	10	22.96	0	Left	Cheek	QPSK	1	49	1:1	0.067	34.70	
782.0	23230	Mid	LTE Band 13	10	22.13	1	Left	Cheek	QPSK	25	12	1:1	0.059	34.42	
782.0	23230	Mid	LTE Band 13	10	22.96	0	Left	Tilt	QPSK	1	49	1:1	0.038	37.16	
782.0	23230	Mid	LTE Band 13	10	22.13	1	Left	Tilt	QPSK	25	12	1:1	0.035	36.69	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	Right	Cheek	QPSK	1	0	1:1	0.142	33.94	33.90
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	Right	Cheek	QPSK	25	0	1:1	0.109	33.90	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	Right	Tilt	QPSK	1	0	1:1	0.053	38.22	
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	Right	Tilt	QPSK	25	0	1:1	0.043	37.94	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	Left	Cheek	QPSK	1	0	1:1	0.085	36.17	
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	Left	Cheek	QPSK	25	0	1:1	0.069	35.88	
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	Left	Tilt	QPSK	1	0	1:1	0.050	38.47	
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	Left	Tilt	QPSK	25	0	1:1	0.040	38.25	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




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Table A-3
DSI = 2 P_{Limit} Calculations – 4G Head SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	Right	Cheek	QPSK	1	50	1:1	0.054	35.98	33.62
1732.5	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	Right	Cheek	QPSK	50	25	1:1	0.042	36.25	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	Right	Tilt	QPSK	1	50	1:1	0.043	36.97	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	Right	Tilt	QPSK	50	25	1:1	0.038	36.68	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	Left	Cheek	QPSK	1	50	1:1	0.091	33.71	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	Left	Cheek	QPSK	50	25	1:1	0.077	33.62	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	Left	Tilt	QPSK	1	50	1:1	0.058	35.67	
1732.5	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	Left	Tilt	QPSK	50	25	1:1	0.044	36.05	
2593.0	40620	Mid	LTE Band 41	20	24.48	0	Right	Cheek	QPSK	1	50	1:1.58	0.058	34.86	34.86
2593.0	40620	Mid	LTE Band 41	20	23.42	1	Right	Cheek	QPSK	50	25	1:1.58	0.045	34.90	
2593.0	40620	Mid	LTE Band 41	20	24.48	0	Right	Tilt	QPSK	1	50	1:1.58	0.042	36.26	
2593.0	40620	Mid	LTE Band 41	20	23.42	1	Right	Tilt	QPSK	50	25	1:1.58	0.033	36.25	
2593.0	40620	Mid	LTE Band 41	20	24.48	0	Left	Cheek	QPSK	1	50	1:1.58	0.056	35.01	
2593.0	40620	Mid	LTE Band 41	20	23.42	1	Left	Cheek	QPSK	50	25	1:1.58	0.043	35.10	
2593.0	40620	Mid	LTE Band 41	20	24.48	0	Left	Tilt	QPSK	1	50	1:1.58	0.034	37.18	
2593.0	40620	Mid	LTE Band 41	20	23.42	1	Left	Tilt	QPSK	50	25	1:1.58	0.028	36.96	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

Table A-4
DSI = 0 P_{Limit} Calculations – 2G/3G Body-Worn SAR

MEASUREMENT RESULTS										
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.							(W/kg)	[dBm]	[dBm]
836.60	190	GSM 850	GSM	33.29	15	Back	1:8.3	0.168	31.84	31.84
1880.00	661	GSM 1900	GSM	29.64	15	Back	1:8.3	0.257	26.34	26.34
836.60	4183	UMTS 850	RMC	24.51	15	Back	1:1	0.190	31.72	31.72

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




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Table A-5
DSI = 0 P_{Limit} Calculations – 4G Body-Worn SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit	
MHz	Ch.											(W/kg)	[dBm]	[dBm]	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	15	Back	1:1	0.105	33.09	33.09
707.50	23095	Mid	LTE Band 12	10	22.28	1	QPSK	25	12	15	Back	1:1	0.083	33.09	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	15	Back	1:1	0.144	31.38	31.27
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	12	15	Back	1:1	0.122	31.27	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	15	Back	1:1	0.232	31.81	31.33
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	QPSK	25	0	15	Back	1:1	0.197	31.33	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	15	Back	1:1	0.499	26.32	26.32
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	15	Back	1:1	0.395	26.51	
2593.00	40620	Mid	LTE Band 41	20	24.48	0	QPSK	1	50	15	Back	1:1.58	0.301	27.71	27.60
2593.00	40620	Mid	LTE Band 41	20	23.42	1	QPSK	50	25	15	Back	1:1.58	0.242	27.60	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

Table A-6
DSI = 3 P_{Limit} Calculations – 2G/3G Hotspot SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	# of GPRS Slots	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
836.60	190	GSM 850	GPRS	29.56	10	Back	3	1:2.76	0.363	29.53	29.53
836.60	190	GSM 850	GPRS	29.56	10	Front	3	1:2.76	0.241	31.31	
836.60	190	GSM 850	GPRS	29.56	10	Bottom	3	1:2.76	0.220	31.71	
836.60	190	GSM 850	GPRS	29.56	10	Right	3	1:2.76	0.131	33.96	
836.60	190	GSM 850	GPRS	29.56	10	Left	3	1:2.76	0.034	39.82	
1880.00	661	GSM 1900	GPRS	20.89	10	Back	4	1:2.076	0.253	23.68	19.26
1880.00	661	GSM 1900	GPRS	20.89	10	Front	4	1:2.076	0.217	24.34	
1850.20	512	GSM 1900	GPRS	21.27	10	Bottom	4	1:2.076	0.536	20.80	
1880.00	661	GSM 1900	GPRS	20.89	10	Bottom	4	1:2.076	0.630	19.72	
1909.80	810	GSM 1900	GPRS	21.28	10	Bottom	4	1:2.076	0.766	19.26	
1880.00	661	GSM 1900	GPRS	20.89	10	Right	4	1:2.076	0.047	30.99	
1880.00	661	GSM 1900	GPRS	20.89	10	Left	4	1:2.076	0.040	31.69	
836.60	4183	UMTS 850	RMC	24.51	10	Back	N/A	1:1	0.424	28.24	28.24
836.60	4183	UMTS 850	RMC	24.51	10	Front	N/A	1:1	0.227	30.95	
836.60	4183	UMTS 850	RMC	24.51	10	Bottom	N/A	1:1	0.243	30.65	
836.60	4183	UMTS 850	RMC	24.51	10	Right	N/A	1:1	0.146	32.87	
836.60	4183	UMTS 850	RMC	24.51	10	Left	N/A	1:1	0.045	37.98	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




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Table A-7
DSI = 3 P_{Limit} Calculations – 4G Hotspot SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit	
MHz	Ch.												(W/kg)	[dBm]	[dBm]	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	10	Back	1:1	0.200	30.29	30.08	
707.50	23095	Mid	LTE Band 12	10	22.28	1	QPSK	25	12	10	Back	1:1	0.166	30.08		
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	10	Front	1:1	0.102	33.21		
707.50	23095	Mid	LTE Band 12	10	22.28	1	QPSK	25	12	10	Front	1:1	0.086	32.94		
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	10	Bottom	1:1	0.106	33.05		
707.50	23095	Mid	LTE Band 12	10	22.28	1	QPSK	25	12	10	Bottom	1:1	0.087	32.88		
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	10	Right	1:1	0.150	31.54		
707.50	23095	Mid	LTE Band 12	10	22.28	1	QPSK	25	12	10	Right	1:1	0.124	31.35		
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	10	Left	1:1	0.082	34.16		
707.50	23095	Mid	LTE Band 12	10	22.28	1	QPSK	25	12	10	Left	1:1	0.058	34.65		
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	10	Back	1:1	0.243	29.10	29.01	
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	12	10	Back	1:1	0.205	29.01		
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	10	Front	1:1	0.166	30.76		
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	12	10	Front	1:1	0.141	30.64		
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	10	Bottom	1:1	0.150	31.20		
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	12	10	Bottom	1:1	0.129	31.02		
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	10	Right	1:1	0.126	31.96		
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	12	10	Right	1:1	0.118	31.41		
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	10	Left	1:1	0.040	36.94		
782.00	23230	Mid	LTE Band 13	10	22.13	1	QPSK	25	12	10	Left	1:1	0.033	36.94		
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	10	Back	1:1	0.498	28.49	28.05	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	QPSK	25	0	10	Back	1:1	0.419	28.05		
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	10	Front	1:1	0.333	30.24		
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	QPSK	25	0	10	Front	1:1	0.275	29.88		
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	10	Bottom	1:1	0.312	30.52		
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	QPSK	25	0	10	Bottom	1:1	0.261	30.10		
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	10	Right	1:1	0.195	32.56		
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	QPSK	25	0	10	Right	1:1	0.163	32.15		
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	10	Left	1:1	0.056	37.98		
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.27	1	QPSK	25	0	10	Left	1:1	0.047	37.55		

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




FCC ID: A3LSMG998JPN	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-8
DSI = 3 P_{Limit} Calculations – 4G Hotspot SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	10	Back	1:1	0.330	23.50	20.65
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	10	Back	1:1	0.338	23.48	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	10	Front	1:1	0.303	23.88	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	10	Front	1:1	0.311	23.84	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	10	Bottom	1:1	0.637	20.65	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	10	Bottom	1:1	0.640	20.71	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	10	Right	1:1	0.047	31.97	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	10	Right	1:1	0.047	32.05	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	10	Left	1:1	0.066	30.49	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	10	Left	1:1	0.067	30.51	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	10	Back	1:1.58	0.363	23.78	23.78
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	10	Back	1:1.58	0.366	23.84	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	10	Front	1:1.58	0.333	24.16	
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	10	Front	1:1.58	0.340	24.16	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	10	Bottom	1:1.58	0.367	23.74	
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	10	Bottom	1:1.58	0.378	23.70	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	10	Left	1:1.58	0.159	27.37	
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	10	Left	1:1.58	0.163	27.35	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




FCC ID: A3LSMG998JPN	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-9
DSI = 0 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing	Side	# of GPRS Slots	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
836.60	190	GSM 850	GPRS	29.56	8	Back	3	1:2.76	0.365	33.49	33.49
836.60	190	GSM 850	GPRS	29.56	6	Front	3	1:2.76	0.364	33.50	
836.60	190	GSM 850	GPRS	29.56	11	Bottom	3	1:2.76	0.132	37.90	
836.60	190	GSM 850	GPRS	29.56	0	Right	3	1:2.76	0.198	36.14	
836.60	190	GSM 850	GPRS	29.56	0	Left	3	1:2.76	0.186	36.41	
1880.00	661	GSM 1900	GPRS	26.08	8	Back	3	1:2.76	0.448	29.12	26.93
1880.00	661	GSM 1900	GPRS	26.08	6	Front	3	1:2.76	0.560	28.15	
1880.00	661	GSM 1900	GPRS	26.08	11	Bottom	3	1:2.76	0.741	26.93	
1880.00	661	GSM 1900	GPRS	26.08	0	Right	3	1:2.76	0.227	32.07	
1880.00	661	GSM 1900	GPRS	26.08	0	Left	3	1:2.76	0.299	30.87	
836.60	4183	UMTS 850	RMC	24.51	8	Back	N/A	1:1	0.374	32.76	32.71
836.60	4183	UMTS 850	RMC	24.51	6	Front	N/A	1:1	0.378	32.71	
836.60	4183	UMTS 850	RMC	24.51	11	Bottom	N/A	1:1	0.142	36.97	
836.60	4183	UMTS 850	RMC	24.51	0	Right	N/A	1:1	0.222	35.03	
836.60	4183	UMTS 850	RMC	24.51	0	Left	N/A	1:1	0.222	35.03	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.




FCC ID: A3LSMG998JPN	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-10
DSI = 6 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS											
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (m.m)	Side	# of GPRS Slots	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
836.60	190	GSM 850	GPRS	29.56	0	Back	3	1:2.76	1.410	27.62	27.59
836.60	190	GSM 850	GPRS	29.56	0	Front	3	1:2.76	1.420	27.59	
836.60	190	GSM 850	GPRS	29.56	0	Bottom	3	1:2.76	0.680	30.78	
836.60	190	GSM 850	GPRS	29.56	0	Right	3	1:2.76	0.198	36.14	
836.60	190	GSM 850	GPRS	29.56	0	Left	3	1:2.76	0.186	36.41	
1880.00	661	GSM 1900	GPRS	20.89	0	Back	4	1:2.076	0.752	22.93	21.99
1880.00	661	GSM 1900	GPRS	20.89	0	Front	4	1:2.076	0.804	22.64	
1880.00	661	GSM 1900	GPRS	20.89	0	Bottom	4	1:2.076	0.932	21.99	
1880.00	661	GSM 1900	GPRS	26.08	0	Right	3	1:2.76	0.227	32.07	
1880.00	661	GSM 1900	GPRS	26.08	0	Left	3	1:2.76	0.299	30.87	
836.60	4183	UMTS 850	RMC	24.51	0	Back	N/A	1:1	1.390	27.06	26.97
836.60	4183	UMTS 850	RMC	24.51	0	Front	N/A	1:1	1.420	26.97	
836.60	4183	UMTS 850	RMC	24.51	0	Bottom	N/A	1:1	0.607	30.66	
836.60	4183	UMTS 850	RMC	24.51	0	Right	N/A	1:1	0.222	35.03	
836.60	4183	UMTS 850	RMC	24.51	0	Left	N/A	1:1	0.222	35.03	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

Table A-11
DSI = 0 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.	Mid											(W/kg)	[dBm]	[dBm]
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	8	Back	1:1	0.125	36.31	36.31
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	6	Front	1:1	0.119	36.52	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	11	Bottom	1:1	0.040	41.26	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Right	1:1	0.063	39.29	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Left	1:1	0.063	39.29	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	8	Back	1:1	0.200	33.93	33.74
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	6	Front	1:1	0.209	33.74	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	11	Bottom	1:1	0.071	38.43	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Right	1:1	0.131	35.77	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Left	1:1	0.124	36.01	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	8	Back	1:1	0.315	34.46	34.37
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	6	Front	1:1	0.321	34.37	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	11	Bottom	1:1	0.121	38.61	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Right	1:1	0.192	36.61	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Left	1:1	0.200	36.43	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.




FCC ID: A3LSMG998JPN	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-12
DSI = 0 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	8	Back	1:1	0.714	28.74	27.56
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	8	Back	1:1	0.589	28.76	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	6	Front	1:1	0.938	27.56	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	6	Front	1:1	0.775	27.57	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	11	Bottom	1:1	0.882	27.82	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	11	Bottom	1:1	0.706	27.97	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	0	Right	1:1	0.290	32.66	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	0	Right	1:1	0.238	32.69	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	0	Left	1:1	0.358	31.74	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	0	Left	1:1	0.300	31.69	
2593.00	40620	Mid	LTE Band 41	20	24.48	0	QPSK	1	50	8	Back	1:1.58	0.440	30.04	26.83
2593.00	40620	Mid	LTE Band 41	20	23.42	1	QPSK	50	25	8	Back	1:1.58	0.357	29.89	
2593.00	40620	Mid	LTE Band 41	20	24.48	0	QPSK	1	50	6	Front	1:1.58	0.496	29.52	
2593.00	40620	Mid	LTE Band 41	20	23.42	1	QPSK	50	25	6	Front	1:1.58	0.410	29.29	
2593.00	40620	Mid	LTE Band 41	20	24.48	0	QPSK	1	50	11	Bottom	1:1.58	0.257	32.37	
2593.00	40620	Mid	LTE Band 41	20	23.42	1	QPSK	50	25	11	Bottom	1:1.58	0.205	32.30	
2593.00	40620	Mid	LTE Band 41	20	24.48	0	QPSK	1	50	0	Left	1:1.58	0.867	27.09	
2593.00	40620	Mid	LTE Band 41	20	23.42	1	QPSK	50	25	0	Left	1:1.58	0.721	26.83	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.




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Table A-13
DSI = 6 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Back	1:1	0.731	28.64	27.44
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Front	1:1	0.964	27.44	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Bottom	1:1	0.565	29.76	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Right	1:1	0.063	39.29	
707.50	23095	Mid	LTE Band 12	10	23.30	0	QPSK	1	0	0	Left	1:1	0.063	39.29	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Back	1:1	0.711	28.42	28.42
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Front	1:1	0.655	28.78	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Bottom	1:1	0.363	31.34	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Right	1:1	0.131	35.77	
782.00	23230	Mid	LTE Band 13	10	22.96	0	QPSK	1	49	0	Left	1:1	0.124	36.01	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Back	1:1	1.320	28.23	28.23
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Front	1:1	1.340	28.17	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Bottom	1:1	0.593	31.71	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Right	1:1	0.192	36.61	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.46	0	QPSK	1	0	0	Left	1:1	0.200	36.43	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	0	Back	1:1	0.985	22.74	19.45
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	0	Back	1:1	1.020	22.66	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	0	Front	1:1	0.913	23.06	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	0	Front	1:1	0.952	22.96	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.69	0	QPSK	1	50	0	Bottom	1:1	2.050	19.55	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.77	0	QPSK	50	25	0	Bottom	1:1	2.100	19.53	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	18.67	0	QPSK	100	0	0	Bottom	1:1	2.090	19.45	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	0	Right	1:1	0.290	32.66	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	0	Right	1:1	0.238	32.69	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.30	0	QPSK	1	50	0	Left	1:1	0.358	31.74	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	22.48	1	QPSK	50	25	0	Left	1:1	0.300	31.69	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.







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Table A-14
DSI = 6 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.												(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	21.27	0	QPSK	1	99	0	Back	1:1.58	1.500	21.50	21.26
2549.50	40185	Low-Mid	LTE Band 41	20	21.31	0	QPSK	1	0	0	Back	1:1.58	1.460	21.66	
2593.00	40620	Mid	LTE Band 41	20	21.29	0	QPSK	1	50	0	Back	1:1.58	1.350	21.98	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	0	Back	1:1.58	1.310	22.19	
2680.00	41490	High	LTE Band 41	20	21.36	0	QPSK	1	50	0	Back	1:1.58	1.600	21.31	
2506.00	39750	Low	LTE Band 41	20	21.28	0	QPSK	50	25	0	Back	1:1.58	1.590	21.26	
2549.50	40185	Low-Mid	LTE Band 41	20	21.37	0	QPSK	50	25	0	Back	1:1.58	1.450	21.75	
2593.00	40620	Mid	LTE Band 41	20	21.37	0	QPSK	50	25	0	Back	1:1.58	1.390	21.93	
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	0	Back	1:1.58	1.540	21.58	
2680.00	41490	High	LTE Band 41	20	21.45	0	QPSK	50	25	0	Back	1:1.58	1.640	21.29	
2636.50	41055	Mid-High	LTE Band 41	20	21.35	0	QPSK	100	0	0	Back	1:1.58	1.510	21.55	
2506.00	39750	Low	LTE Band 41	20	21.27	0	QPSK	1	99	0	Front	1:1.58	1.050	23.05	
2549.50	40185	Low-Mid	LTE Band 41	20	21.31	0	QPSK	1	0	0	Front	1:1.58	0.991	23.34	
2593.00	40620	Mid	LTE Band 41	20	21.29	0	QPSK	1	50	0	Front	1:1.58	1.190	22.53	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	0	Front	1:1.58	1.350	22.06	
2680.00	41490	High	LTE Band 41	20	21.36	0	QPSK	1	50	0	Front	1:1.58	1.380	21.95	
2506.00	39750	Low	LTE Band 41	20	21.28	0	QPSK	50	25	0	Front	1:1.58	1.110	22.82	
2549.50	40185	Low-Mid	LTE Band 41	20	21.37	0	QPSK	50	25	0	Front	1:1.58	1.020	23.28	
2593.00	40620	Mid	LTE Band 41	20	21.37	0	QPSK	50	25	0	Front	1:1.58	1.250	22.39	
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	0	Front	1:1.58	1.400	21.99	
2680.00	41490	High	LTE Band 41	20	21.45	0	QPSK	50	25	0	Front	1:1.58	1.420	21.92	
2636.50	41055	Mid-High	LTE Band 41	20	21.35	0	QPSK	100	0	0	Front	1:1.58	1.360	22.01	
2506.00	39750	Low	LTE Band 41	20	21.27	0	QPSK	1	99	0	Bottom	1:1.58	1.210	22.44	
2549.50	40185	Low-Mid	LTE Band 41	20	21.31	0	QPSK	1	0	0	Bottom	1:1.58	1.110	22.85	
2593.00	40620	Mid	LTE Band 41	20	21.29	0	QPSK	1	50	0	Bottom	1:1.58	1.380	21.88	
2636.50	41055	Mid-High	LTE Band 41	20	21.37	0	QPSK	1	50	0	Bottom	1:1.58	1.470	21.69	
2680.00	41490	High	LTE Band 41	20	21.36	0	QPSK	1	50	0	Bottom	1:1.58	1.510	21.56	
2506.00	39750	Low	LTE Band 41	20	21.28	0	QPSK	50	25	0	Bottom	1:1.58	1.320	22.07	
2549.50	40185	Low-Mid	LTE Band 41	20	21.37	0	QPSK	50	25	0	Bottom	1:1.58	1.090	22.99	
2593.00	40620	Mid	LTE Band 41	20	21.37	0	QPSK	50	25	0	Bottom	1:1.58	1.450	21.75	
2636.50	41055	Mid-High	LTE Band 41	20	21.46	0	QPSK	50	25	0	Bottom	1:1.58	1.550	21.55	
2680.00	41490	High	LTE Band 41	20	21.45	0	QPSK	50	25	0	Bottom	1:1.58	1.550	21.54	
2636.50	41055	Mid-High	LTE Band 41	20	21.35	0	QPSK	100	0	0	Bottom	1:1.58	1.520	21.52	
2593.00	40620	Mid	LTE Band 41	20	24.48	0	QPSK	1	50	0	Left	1:1.58	0.867	27.09	
2593.00	40620	Mid	LTE Band 41	20	23.42	1	QPSK	50	25	0	Left	1:1.58	0.721	26.83	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

FCC ID: A3LSMG998JPN	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 01/17/21 - 01/25/21	DUT Type: Portable Handset			APPENDIX A: Page 11 of 11