



PCTEST
 7185 Oakland Mills Road, Columbia, MD 21046 USA
 Tel. +1.410.290.6652 / Fax +1.410.290.6654
<http://www.pctest.com>



PART 0 SAR CHAR REPORT

Applicant Name:
 Samsung Electronics Co., Ltd.
 129, Samsung-ro, Maetan dong,
 Yeongtong-gu, Suwon-si
 Gyeonggi-do, 16677, Korea

Date of Testing:
 05/25/20 – 07/10/20
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 PCTEST Lab, Columbia, MD, USA
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FCC ID: A3LSMN981U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD

Report Type: Part 0 SAR Characterization
DUT Type: Portable Handset
Model(s): SM-N981U
Additional Model(s): SM-N981U1

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
CDMA/EVDO BC10 (§90S)	Voice/Data	817.90 - 823.10 MHz
CDMA/EVDO BC0 (§22H)	Voice/Data	824.70 - 848.31 MHz
PCS CDMA/EVDO	Voice/Data	1851.25 - 1908.75 MHz
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
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5	Data	826.5 - 846.5 MHz
NR Band n66	Data	1712.5 - 1777.5 MHz
NR Band n25	Data	1852.5 - 1912.5 MHz
NR Band n2	Data	1852.5 - 1907.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 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
MST	Data	555 Hz - 8.33 kHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 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/5G WWAN operations. Additionally, this device supports WLAN/BT/NFC/MST technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

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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/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 2G/3G/4G/5G Sub-6 NR 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) 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 (<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 P_{limit} for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
FCC Part 0 PD Characterization Report	Revision C
FCC SAR Evaluation Report (Part 1)	1M2005050081-01.A3L
FCC PD Evaluation Report (Part 1)	1M2005050081-22.A3L
RF Exposure Part 2 Test Report	1M2005050081-26.A3L
RF Exposure Compliance Summary	1M2005050081-26.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. Table 2-1) 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.

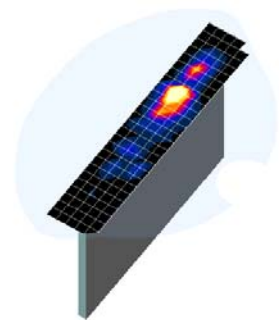





Figure 2-1
Sample SAR Area Scan




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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 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
 - b. 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).
 - 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 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		
				$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)^*$	
≤ 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 SAR CHARACTERIZATION

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 (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=1 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

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**

SAR_{design_target}			
$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-Total\ Uncertainty}{10}}$			
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

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3.3 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 3-3
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 12 mm spacing for back, front, bottom respectively 3. Extremity SAR measured at 0 mm for left and right surfaces
1 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 3-4
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	0 mm	0 mm	10 mm	0 mm	
DSI:	0	0	1	2	3	4	
Technology/Band	Plimit corresponding to 1mW/g (SAR_design_target)						Pmax
CDMA/EVDO BC10	29.4		26.7	32.1	26.4	26.7	24.8
CDMA/EVDO BC0	29.4		26.8	31.9	25.9	26.8	24.8
CDMA/EVDO BC1	25.1		19.0	32.1	18.0	19.0	23.5
GSM/GPRS/EDGE 850 MHz	30.3		28.4	33.0	28.4	28.4	24.8
GSM/GPRS/EDGE 1900 MHz	25.7		18.8	31.6	18.8	18.8	21.3
UMTS B5	30.4		26.9	32.9	26.4	26.9	24.5
UMTS B4	24.3		19.0	31.5	19.0	19.0	23.0
UMTS B2	25.4		18.0	31.9	18.0	18.0	23.0
LTE FDD B71	32.7		27.4	36.0	27.4	27.4	24.8
LTE FDD B12	31.1		27.6	34.0	27.6	27.6	24.8
LTE FDD B13	29.8		28.2	33.3	27.4	28.2	24.8
LTE FDD B14	29.6		28.4	33.4	27.3	28.4	24.8
LTE FDD B26	29.6		26.9	32.1	26.9	26.9	24.8
LTE FDD B5	29.3		27.1	31.9	26.4	27.1	24.8
LTE FDD B66/4	24.6		19.0	32.9	19.0	19.0	23.0
LTE FDD B25/2	25.1		18.0	31.8	18.0	18.0	23.0
LTE FDD B30	26.6		20.5	33.3	18.0	20.5	23.2
LTE FDD B7	26.2		20.5	33.0	19.5	20.5	23.0
LTE TDD B48	21.4		21.4	14.5	21.4	21.4	20.5
LTE TDD B41 PC3	26.9		20.0	33.3	19.0	20.0	22.0
LTE TDD B41 PC2	26.9		20.0	33.3	19.0	20.0	22.6
LTE TDD B38	26.9		19.0	33.3	19.0	19.0	21.5
NR FDD n71	32.3		27.4	35.3	27.4	27.4	24.8
NR FDD n12	31.1		28.1	33.9	28.1	28.1	24.5
NR FDD n5	29.8		27.8	32.6	26.3	27.8	24.8
NR FDD n66	24.9		19.0	32.1	19.0	19.0	23.5
NR FDD n25/2	25.5		18.5	31.5	18.5	18.5	23.5
NR TDD n41	24.8		24.8	14.0	24.8	24.8	18.0

Notes:

1. For all modes/bands, when Hotspot Mode (DSI=3) and Extremity sensor (DSI=1) 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=1.
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 =4 are the same.
4. For LTE Band 48 and n41, when RCV is active, DSI=2 takes priority over all levels.

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EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer (9KHz-6.7GHz)	1/16/2020	Triennial	1/16/2023	U541444489
Agilent	8733ES	S-Parameter Network Analyzer	12/31/2019	Annual	12/31/2020	U539170122
Agilent	8733ES	S-Parameter Network Analyzer	8/26/2019	Annual	8/26/2020	MY40000670
Agilent	8733ES	S-Parameter Vector Network Analyzer	8/19/2019	Annual	9/19/2020	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	3/8/2019	Biennial	3/8/2021	M142282395
Agilent	E4438C	ESG Vector Signal Generator	3/11/2019	Biennial	3/11/2021	MY45090700
Agilent	E4438C	ESG Vector Signal Generator	12/13/2019	Annual	12/13/2020	MY42082659
Agilent	E5515C	8960 Series 10 Wireless Communications Test Set	2/10/2020	Annual	2/10/2021	GB42230325
Agilent	E5515C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB43304447
Agilent	E5515C	Wireless Communications Test Set	6/26/2019	Annual	6/26/2020	MY50267125
Agilent	E5515C	Wireless Communications Test Set	2/26/2020	Annual	2/26/2021	GB44400860
Agilent	E5515C	Wireless Communications Test Set	9/25/2019	Annual	9/25/2020	GB43304278
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	N9900A	PNA Signal Analyzer (64GHz)	6/12/2019	Annual	6/12/2020	MY25350166
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433976
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1344524
Anritsu	MA24106A	USB Power Sensor	10/10/2019	Annual	10/10/2020	1344545
Anritsu	MA24106A	USB Power Sensor	10/10/2019	Annual	10/10/2020	1344559
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1207470
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	ML2496A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Anritsu	ML2496A	Power Meter	3/23/2020	Annual	3/23/2021	1351001
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	10/2/2019	Annual	10/2/2020	6201664756
Anritsu	MT8821C	Radio Communication Analyzer	2/22/2020	Annual	2/22/2021	6261895213
Anritsu	MT8821C	Radio Communication Analyzer	11/22/2019	Annual	11/22/2020	6362044715
Anritsu	MT8862A	Wireless Connectivity Test Set	8/8/2019	Annual	8/8/2020	6261782395
COMTECH	ARB5729-5	Solid State Amplifier	CBT	N/A	CBT	M155A00-009
COMTECH	ARB5729-5/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291455
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291468
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291463
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043588
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043655
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043647
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766816
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766817
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
MCL	BW-N20W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R897950993
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1236
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1800+	Low Pass Filter DC to 1800 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Seikora	NC-100	Torque Wrench	7/18/2019	Annual	7/18/2020	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	3/27/2020	Annual	3/27/2021	128633
Rohde & Schwarz	CMW500	Radio Communication Tester	8/14/2019	Annual	8/14/2020	140144
Rohde & Schwarz	CMW500	Radio Communication Tester	10/4/2019	Annual	10/4/2020	166462
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/4/2020	Annual	2/4/2021	162125
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/19/2019	Annual	11/19/2020	164948
Rohde & Schwarz	2NLE6	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
Rohde & Schwarz	CMU200	Base Station Simulator	6/3/2019	Annual	6/3/2020	108992
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/12/2019	Annual	7/12/2020	145645
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/24/2019	Annual	7/24/2020	151849
SPEAG	D750V3	750 MHz SAR Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D835V2	835 MHz SAR Dipole	1/13/2020	Annual	1/13/2021	46132
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Biennial	10/22/2020	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Biennial	2/21/2021	56148
SPEAG	D1900V2	1900 MHz SAR Dipole	10/21/2018	Biennial	10/21/2020	56380
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2019	Annual	8/13/2020	3073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2019	Annual	8/14/2020	719
SPEAG	D2600V2	2600 MHz SAR Dipole	4/11/2018	Triennial	4/11/2021	1004
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	1/11/2018	Triennial	1/11/2021	1059
SPEAG	D3700V2	3700 MHz SAR Dipole	11/11/2018	Triennial	11/11/2020	1018
SPEAG	D5GHV2	5 GHz SAR Dipole	1/16/2018	Triennial	1/16/2021	1057
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Annual	3/16/2021	1003
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Biennial	3/13/2021	46847
SPEAG	D1765V2	1765 MHz SAR Dipole	5/22/2018	Triennial	5/22/2021	1008
SPEAG	D2450V2	2450 MHz SAR Dipole	8/11/2017	Triennial	8/11/2020	787
SPEAG	D2450V2	2450 MHz SAR Dipole	8/16/2018	Biennial	8/16/2020	981
SPEAG	D5GHV2	5 GHz SAR Dipole	9/17/2019	Annual	9/17/2020	1191
SPEAG	DAE4	Daisy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1322
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/17/2019	Annual	9/17/2020	1333
SPEAG	DAE4	Daisy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1558
SPEAG	DAE4	Daisy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1530
SPEAG	DAE4	Daisy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DAE4	Daisy Data Acquisition Electronics	3/12/2020	Annual	3/12/2021	1368
SPEAG	DAE4	Daisy Data Acquisition Electronics	12/5/2019	Annual	12/5/2020	1638
SPEAG	DAE4	Daisy Data Acquisition Electronics	7/14/2019	Annual	7/14/2020	1323
SPEAG	DAE4	Daisy Data Acquisition Electronics	9/12/2019	Annual	9/12/2020	1449
SPEAG	DAE4	Daisy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/22/2019	Annual	10/22/2020	1091
SPEAG	EX3D4	SAR Probe	7/16/2019	Annual	7/16/2020	7410
SPEAG	EX3D4	SAR Probe	9/19/2019	Annual	9/19/2020	7551
SPEAG	EX3D4	SAR Probe	1/21/2020	Annual	1/21/2021	3589
SPEAG	EX3D4	SAR Probe	1/21/2020	Annual	1/21/2021	7488
SPEAG	EX3D4	SAR Probe	4/21/2020	Annual	4/21/2021	7357
SPEAG	EX3D4	SAR Probe	3/17/2020	Annual	3/17/2021	7527
SPEAG	EX3D4	SAR Probe	12/11/2019	Annual	12/11/2020	7571
SPEAG	EX3D4	SAR Probe	7/15/2019	Annual	7/15/2020	7547
SPEAG	EX3D4	SAR Probe	9/19/2019	Annual	9/19/2020	7552
SPEAG	EX3D4	SAR Probe	5/18/2020	Annual	5/18/2021	7538

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	Slots	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (\$90S)	RC3 / SO55	25.21	Right	Cheek	N/A	1:1	0.107	34.92	32.11
820.10	564	CDMA BC10 (\$90S)	RC3 / SO55	25.21	Right	Tilt	N/A	1:1	0.091	35.62	
820.10	564	CDMA BC10 (\$90S)	RC3 / SO55	25.21	Left	Cheek	N/A	1:1	0.186	32.51	
820.10	564	CDMA BC10 (\$90S)	RC3 / SO55	25.21	Left	Tilt	N/A	1:1	0.094	35.48	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. A	25.33	Right	Cheek	N/A	1:1	0.120	34.54	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. A	25.33	Right	Tilt	N/A	1:1	0.093	35.65	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. A	25.33	Left	Cheek	N/A	1:1	0.210	32.11	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. A	25.33	Left	Tilt	N/A	1:1	0.094	35.60	
824.70	1013	CDMA BC0 (\$22H)	RC3 / SO55	25.37	Right	Cheek	N/A	1:1	0.137	34.00	31.85
824.70	1013	CDMA BC0 (\$22H)	RC3 / SO55	25.37	Right	Tilt	N/A	1:1	0.113	34.84	
824.70	1013	CDMA BC0 (\$22H)	RC3 / SO55	25.37	Left	Cheek	N/A	1:1	0.225	31.85	
824.70	1013	CDMA BC0 (\$22H)	RC3 / SO55	25.37	Left	Tilt	N/A	1:1	0.105	35.16	
824.70	1013	CDMA BC0 (\$22H)	EVDO Rev. A	25.49	Right	Cheek	N/A	1:1	0.138	34.09	
824.70	1013	CDMA BC0 (\$22H)	EVDO Rev. A	25.49	Right	Tilt	N/A	1:1	0.101	35.45	
824.70	1013	CDMA BC0 (\$22H)	EVDO Rev. A	25.49	Left	Cheek	N/A	1:1	0.196	32.57	
824.70	1013	CDMA BC0 (\$22H)	EVDO Rev. A	25.49	Left	Tilt	N/A	1:1	0.101	35.45	
1880.00	600	PCS CDMA	RC3 / SO55	23.55	Right	Cheek	N/A	1:1	0.141	32.06	32.06
1880.00	600	PCS CDMA	RC3 / SO55	23.55	Right	Tilt	N/A	1:1	0.063	35.56	
1880.00	600	PCS CDMA	RC3 / SO55	23.55	Left	Cheek	N/A	1:1	0.122	32.69	
1880.00	600	PCS CDMA	RC3 / SO55	23.55	Left	Tilt	N/A	1:1	0.089	34.06	
1880.00	600	PCS CDMA	EVDO Rev. A	23.68	Right	Cheek	N/A	1:1	0.124	32.75	
1880.00	600	PCS CDMA	EVDO Rev. A	23.68	Right	Tilt	N/A	1:1	0.037	38.00	
1880.00	600	PCS CDMA	EVDO Rev. A	23.68	Left	Cheek	N/A	1:1	0.062	35.76	
1880.00	600	PCS CDMA	EVDO Rev. A	23.68	Left	Tilt	N/A	1:1	0.090	34.14	
836.60	190	GSM 850	GSM	32.75	Right	Cheek	N/A	1:8.3	0.090	34.01	32.98
836.60	190	GSM 850	GSM	32.75	Right	Tilt	N/A	1:8.3	0.064	35.49	
836.60	190	GSM 850	GSM	32.75	Left	Cheek	N/A	1:8.3	0.114	32.98	
836.60	190	GSM 850	GSM	32.75	Left	Tilt	N/A	1:8.3	0.058	35.91	
1880.00	661	GSM 1900	GSM	29.07	Right	Cheek	N/A	1:8.3	0.067	31.61	31.61
1880.00	661	GSM 1900	GSM	29.07	Right	Tilt	N/A	1:8.3	0.034	34.55	
1880.00	661	GSM 1900	GSM	29.07	Left	Cheek	N/A	1:8.3	0.049	32.97	
1880.00	661	GSM 1900	GSM	29.07	Left	Tilt	N/A	1:8.3	0.046	33.24	
836.60	4183	UMTS 850	RMC	25.14	Right	Cheek	N/A	1:1	0.121	34.31	32.89
836.60	4183	UMTS 850	RMC	25.14	Right	Tilt	N/A	1:1	0.091	35.55	
836.60	4183	UMTS 850	RMC	25.14	Left	Cheek	N/A	1:1	0.168	32.89	
836.60	4183	UMTS 850	RMC	25.14	Left	Tilt	N/A	1:1	0.093	35.46	
1732.40	1412	UMTS 1750	RMC	23.44	Right	Cheek	N/A	1:1	0.157	31.48	31.48
1732.40	1412	UMTS 1750	RMC	23.44	Right	Tilt	N/A	1:1	0.102	33.35	
1732.40	1412	UMTS 1750	RMC	23.44	Left	Cheek	N/A	1:1	0.112	32.95	
1732.40	1412	UMTS 1750	RMC	23.44	Left	Tilt	N/A	1:1	0.085	34.15	
1880.00	9400	UMTS 1900	RMC	23.39	Right	Cheek	N/A	1:1	0.140	31.93	31.93
1880.00	9400	UMTS 1900	RMC	23.39	Right	Tilt	N/A	1:1	0.090	33.85	
1880.00	9400	UMTS 1900	RMC	23.39	Left	Cheek	N/A	1:1	0.110	32.98	
1880.00	9400	UMTS 1900	RMC	23.39	Left	Tilt	N/A	1:1	0.091	33.80	

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														SAR (1g)	PLimit	Minimum PLimit	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	W/kg	[dBm]				[dBm]
MHz	Ch.																
680.5	133297	Mid	LTE Band 71	20	24.96	0	Right	Cheek	QPSK	1	0	1:1	0.055	37.56	35.98		
680.5	133297	Mid	LTE Band 71	20	24.04	1	Right	Cheek	QPSK	50	25	1:1	0.038	38.24			
680.5	133297	Mid	LTE Band 71	20	24.96	0	Right	Tilt	QPSK	1	0	1:1	0.032	39.91			
680.5	133297	Mid	LTE Band 71	20	24.04	1	Right	Tilt	QPSK	50	25	1:1	0.021	40.82			
680.5	133297	Mid	LTE Band 71	20	24.96	0	Left	Cheek	QPSK	1	0	1:1	0.079	35.98			
680.5	133297	Mid	LTE Band 71	20	24.04	1	Left	Cheek	QPSK	50	25	1:1	0.051	36.96			
680.5	133297	Mid	LTE Band 71	20	24.96	0	Left	Tilt	QPSK	1	0	1:1	0.029	40.34			
680.5	133297	Mid	LTE Band 71	20	24.04	1	Left	Tilt	QPSK	50	25	1:1	0.017	41.74			
707.5	23095	Mid	LTE Band 12	10	24.94	0	Right	Cheek	QPSK	1	0	1:1	0.109	34.57	34.03		
707.5	23095	Mid	LTE Band 12	10	24.03	1	Right	Cheek	QPSK	25	12	1:1	0.075	35.28			
707.5	23095	Mid	LTE Band 12	10	24.94	0	Right	Tilt	QPSK	1	0	1:1	0.066	36.74			
707.5	23095	Mid	LTE Band 12	10	24.03	1	Right	Tilt	QPSK	25	12	1:1	0.054	36.71			
707.5	23095	Mid	LTE Band 12	10	24.94	0	Left	Cheek	QPSK	1	0	1:1	0.120	34.15			
707.5	23095	Mid	LTE Band 12	10	24.03	1	Left	Cheek	QPSK	25	12	1:1	0.100	34.03			
707.5	23095	Mid	LTE Band 12	10	24.94	0	Left	Tilt	QPSK	1	0	1:1	0.046	38.31			
707.5	23095	Mid	LTE Band 12	10	24.03	1	Left	Tilt	QPSK	25	12	1:1	0.041	37.90			
782.0	23230	Mid	LTE Band 13	10	25.03	0	Right	Cheek	QPSK	1	0	1:1	0.103	34.90	33.30		
782.0	23230	Mid	LTE Band 13	10	24.08	1	Right	Cheek	QPSK	25	25	1:1	0.076	35.27			
782.0	23230	Mid	LTE Band 13	10	25.03	0	Right	Tilt	QPSK	1	0	1:1	0.050	38.04			
782.0	23230	Mid	LTE Band 13	10	24.08	1	Right	Tilt	QPSK	25	25	1:1	0.034	38.77			
782.0	23230	Mid	LTE Band 13	10	25.03	0	Left	Cheek	QPSK	1	0	1:1	0.149	33.30			
782.0	23230	Mid	LTE Band 13	10	24.08	1	Left	Cheek	QPSK	25	25	1:1	0.113	33.55			
782.0	23230	Mid	LTE Band 13	10	25.03	0	Left	Tilt	QPSK	1	0	1:1	0.068	36.70			
782.0	23230	Mid	LTE Band 13	10	24.08	1	Left	Tilt	QPSK	25	25	1:1	0.050	37.09			
793.0	23330	Mid	LTE Band 14	10	25.05	0	Right	Cheek	QPSK	1	0	1:1	0.095	35.27	33.44		
793.0	23330	Mid	LTE Band 14	10	24.02	1	Right	Cheek	QPSK	25	12	1:1	0.081	34.94			
793.0	23330	Mid	LTE Band 14	10	25.05	0	Right	Tilt	QPSK	1	0	1:1	0.057	37.49			
793.0	23330	Mid	LTE Band 14	10	24.02	1	Right	Tilt	QPSK	25	12	1:1	0.043	37.69			
793.0	23330	Mid	LTE Band 14	10	25.05	0	Left	Cheek	QPSK	1	0	1:1	0.145	33.44			
793.0	23330	Mid	LTE Band 14	10	24.02	1	Left	Cheek	QPSK	25	12	1:1	0.108	33.69			
793.0	23330	Mid	LTE Band 14	10	25.05	0	Left	Tilt	QPSK	1	0	1:1	0.056	37.57			
793.0	23330	Mid	LTE Band 14	10	24.02	1	Left	Tilt	QPSK	25	12	1:1	0.043	37.69			
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.04	0	Right	Cheek	QPSK	1	0	1:1	0.143	33.49	32.05		
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.07	1	Right	Cheek	QPSK	36	37	1:1	0.090	34.53			
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.04	0	Right	Tilt	QPSK	1	0	1:1	0.105	34.83			
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.07	1	Right	Tilt	QPSK	36	37	1:1	0.063	36.08			
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.04	0	Left	Cheek	QPSK	1	0	1:1	0.199	32.05			
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.07	1	Left	Cheek	QPSK	36	37	1:1	0.140	32.61			
831.5	26865	Mid	LTE Band 26 (Cell)	15	25.04	0	Left	Tilt	QPSK	1	0	1:1	0.106	34.79			
831.5	26865	Mid	LTE Band 26 (Cell)	15	24.07	1	Left	Tilt	QPSK	36	37	1:1	0.066	35.87			
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.01	0	Right	Cheek	QPSK	1	0	1:1	0.139	33.58	31.85		
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.15	1	Right	Cheek	QPSK	25	12	1:1	0.105	33.94			
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.01	0	Right	Tilt	QPSK	1	0	1:1	0.083	35.82			
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.15	1	Right	Tilt	QPSK	25	12	1:1	0.056	36.67			
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.01	0	Left	Cheek	QPSK	1	0	1:1	0.207	31.85			
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.15	1	Left	Cheek	QPSK	25	12	1:1	0.156	32.22			
836.5	20525	Mid	LTE Band 5 (Cell)	10	25.01	0	Left	Tilt	QPSK	1	0	1:1	0.082	35.87			
836.5	20525	Mid	LTE Band 5 (Cell)	10	24.15	1	Left	Tilt	QPSK	25	12	1:1	0.055	36.75			

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




FCC ID: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-3
DSI = 2 P_{Limit} Calculations – 4G Head SAR

MEASUREMENT RESULTS														
MHz	FREQUENCY		Mode	Bandwidth (MHz)	Conducted Power (dBm)	MPR (dB)	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (W/kg) (W/kg)	P_{Limit} (dBm)
	Ch.													
1770.0	132572	High	LTE Band 66 (AWS)	20	23.12	0	Right	Cheek	QPSK	1	99	1.1	0.098	33.21
1770.0	132572	High	LTE Band 66 (AWS)	20	22.23	1	Right	Cheek	QPSK	50	25	1.1	0.086	32.89
1770.0	132572	High	LTE Band 66 (AWS)	20	23.12	0	Right	Tilt	QPSK	1	99	1.1	0.071	34.61
1770.0	132572	High	LTE Band 66 (AWS)	20	22.23	1	Right	Tilt	QPSK	50	25	1.1	0.063	34.24
1770.0	132572	High	LTE Band 66 (AWS)	20	23.12	0	Left	Cheek	QPSK	1	99	1.1	0.082	33.98
1770.0	132572	High	LTE Band 66 (AWS)	20	22.23	1	Left	Cheek	QPSK	50	25	1.1	0.061	34.38
1770.0	132572	High	LTE Band 66 (AWS)	20	23.12	0	Left	Tilt	QPSK	1	99	1.1	0.080	34.09
1770.0	132572	High	LTE Band 66 (AWS)	20	22.23	1	Left	Tilt	QPSK	50	25	1.1	0.054	34.91
1905.0	26590	High	LTE Band 25 (PCS)	20	23.26	0	Right	Cheek	QPSK	1	50	1.1	0.140	31.80
1905.0	26590	High	LTE Band 25 (PCS)	20	22.41	1	Right	Cheek	QPSK	50	50	1.1	0.105	32.20
1905.0	26590	High	LTE Band 25 (PCS)	20	23.26	0	Right	Tilt	QPSK	1	50	1.1	0.071	34.75
1905.0	26590	High	LTE Band 25 (PCS)	20	22.41	1	Right	Tilt	QPSK	50	50	1.1	0.057	34.85
1905.0	26590	High	LTE Band 25 (PCS)	20	23.26	0	Left	Cheek	QPSK	1	50	1.1	0.106	33.01
1905.0	26590	High	LTE Band 25 (PCS)	20	22.41	1	Left	Cheek	QPSK	50	50	1.1	0.083	33.22
1905.0	26590	High	LTE Band 25 (PCS)	20	23.26	0	Left	Tilt	QPSK	1	50	1.1	0.074	34.57
1905.0	26590	High	LTE Band 25 (PCS)	20	22.41	1	Left	Tilt	QPSK	50	50	1.1	0.066	34.21
2310.0	27710	Mid	LTE Band 30	10	23.79	0	Right	Cheek	QPSK	1	0	1.1	0.108	33.54
2310.0	27710	Mid	LTE Band 30	10	22.89	1	Right	Cheek	QPSK	25	12	1.1	0.090	33.35
2310.0	27710	Mid	LTE Band 30	10	23.79	0	Right	Tilt	QPSK	1	0	1.1	0.046	37.16
2310.0	27710	Mid	LTE Band 30	10	22.89	1	Right	Tilt	QPSK	25	12	1.1	0.044	36.46
2310.0	27710	Mid	LTE Band 30	10	23.79	0	Left	Cheek	QPSK	1	0	1.1	0.074	35.10
2310.0	27710	Mid	LTE Band 30	10	22.89	1	Left	Cheek	QPSK	25	12	1.1	0.070	34.44
2310.0	27710	Mid	LTE Band 30	10	23.79	0	Left	Tilt	QPSK	1	0	1.1	0.081	34.71
2310.0	27710	Mid	LTE Band 30	10	22.89	1	Left	Tilt	QPSK	25	12	1.1	0.065	34.76
21350.0	21350	High	LTE Band 7	20	23.61	0	Right	Cheek	QPSK	1	0	1.1	0.114	33.04
21350.0	21350	High	LTE Band 7	20	22.65	1	Right	Cheek	QPSK	50	0	1.1	0.085	33.36
21350.0	21350	High	LTE Band 7	20	23.61	0	Right	Tilt	QPSK	1	0	1.1	0.054	36.29
21350.0	21350	High	LTE Band 7	20	22.65	1	Right	Tilt	QPSK	50	0	1.1	0.050	35.66
21350.0	21350	High	LTE Band 7	20	23.61	0	Left	Cheek	QPSK	1	0	1.1	0.084	34.37
21350.0	21350	High	LTE Band 7	20	22.65	1	Left	Cheek	QPSK	50	0	1.1	0.065	34.52
21350.0	21350	High	LTE Band 7	20	23.61	0	Left	Tilt	QPSK	1	0	1.1	0.085	34.32
21350.0	21350	High	LTE Band 7	20	22.65	1	Left	Tilt	QPSK	50	0	1.1	0.072	34.08
3600.0	55340	Low	LTE Band 48	20	16.74	0	Right	Cheek	QPSK	1	99	11.58	0.570	17.20
3603.3	55773	Low-Mid	LTE Band 48	20	16.78	0	Right	Cheek	QPSK	1	99	11.58	0.591	17.08
3646.7	56207	Mid-High	LTE Band 48	20	16.93	0	Right	Cheek	QPSK	1	99	11.58	0.638	16.90
3690.0	56640	High	LTE Band 48	20	16.81	0	Right	Cheek	QPSK	1	0	11.58	0.573	17.24
3690.0	56340	Low	LTE Band 48	20	16.84	0	Right	Cheek	QPSK	50	25	11.58	0.583	17.20
3603.3	55773	Low-Mid	LTE Band 48	20	16.92	0	Right	Cheek	QPSK	50	25	11.58	0.623	16.99
3646.7	56207	Mid-High	LTE Band 48	20	16.96	0	Right	Cheek	QPSK	50	25	11.58	0.651	16.84
3690.0	56640	High	LTE Band 48	20	16.84	0	Right	Cheek	QPSK	50	25	11.58	0.572	17.28
3646.7	56207	Mid-High	LTE Band 48	20	16.89	0	Right	Cheek	QPSK	100	0	11.58	0.560	17.42
3690.0	56340	Low	LTE Band 48	20	16.74	0	Right	Tilt	QPSK	1	99	11.58	0.574	17.16
3603.3	55773	Low-Mid	LTE Band 48	20	16.78	0	Right	Tilt	QPSK	1	99	11.58	0.572	17.22
3646.7	56207	Mid-High	LTE Band 48	20	16.93	0	Right	Tilt	QPSK	1	99	11.58	0.577	17.33
3690.0	56640	High	LTE Band 48	20	16.81	0	Right	Tilt	QPSK	1	0	11.58	0.547	17.44
3690.0	55340	Low	LTE Band 48	20	16.84	0	Right	Tilt	QPSK	50	25	11.58	0.577	17.24
3603.3	55773	Low-Mid	LTE Band 48	20	16.92	0	Right	Tilt	QPSK	50	25	11.58	0.587	17.25
3646.7	56207	Mid-High	LTE Band 48	20	16.96	0	Right	Tilt	QPSK	50	25	11.58	0.595	17.23
3690.0	56640	High	LTE Band 48	20	16.84	0	Right	Tilt	QPSK	50	25	11.58	0.539	17.54
3646.7	56207	Mid-High	LTE Band 48	20	16.89	0	Right	Tilt	QPSK	100	0	11.58	0.581	17.26
3646.7	56207	Mid-High	LTE Band 48	20	16.93	0	Left	Cheek	QPSK	1	99	11.58	0.160	22.90
3646.7	56207	Mid-High	LTE Band 48	20	16.96	0	Left	Cheek	QPSK	50	25	11.58	0.167	22.75
3646.7	56207	Mid-High	LTE Band 48	20	16.93	0	Left	Tilt	QPSK	1	99	11.58	0.210	21.72
3646.7	56207	Mid-High	LTE Band 48	20	16.96	0	Left	Tilt	QPSK	50	25	11.58	0.211	21.73
2508.0	39750	Low	LTE Band 41	20	24.51	0	Right	Cheek	QPSK	1	99	11.58	0.083	33.33
2508.0	39750	Low	LTE Band 41	20	23.60	1	Right	Cheek	QPSK	50	25	11.58	0.062	33.69
2508.0	39750	Low	LTE Band 41	20	24.51	0	Right	Tilt	QPSK	1	99	11.58	0.044	36.09
2508.0	39750	Low	LTE Band 41	20	23.60	1	Right	Tilt	QPSK	50	25	11.58	0.036	36.05
2508.0	39750	Low	LTE Band 41	20	24.51	0	Left	Cheek	QPSK	1	99	11.58	0.066	34.33
2508.0	39750	Low	LTE Band 41	20	23.60	1	Left	Cheek	QPSK	50	25	11.58	0.051	34.54
2508.0	39750	Low	LTE Band 41	20	24.51	0	Left	Tilt	QPSK	1	99	11.58	0.070	34.07
2508.0	39750	Low	LTE Band 41	20	23.60	1	Left	Tilt	QPSK	50	25	11.58	0.060	33.83

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




FCC ID: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 05/25/20 – 07/10/20	DUT Type: Portable Handset			APPENDIX A: Page 3 of 19

Table A-4
DSI = 2 P_{Limit} Calculations – 5G 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)	P _{Limit}	Minimum P _{Limit}	
MHz	Ch.											(W/kg)	[dBm]	[dBm]	
680.50	136100	Mid	NR Band n71	20	25.41	0.0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.071	36.90	35.28
680.50	136100	Mid	NR Band n71	20	25.49	0.0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.058	37.86	
680.50	136100	Mid	NR Band n71	20	25.41	0.0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.037	39.73	
680.50	136100	Mid	NR Band n71	20	25.49	0.0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.032	40.44	
680.50	136100	Mid	NR Band n71	20	25.41	0.0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.103	35.28	
680.50	136100	Mid	NR Band n71	20	25.49	0.0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.088	36.05	
680.50	136100	Mid	NR Band n71	20	25.41	0.0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.033	40.22	
680.50	136100	Mid	NR Band n71	20	25.49	0.0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.029	40.87	
680.50	136100	Mid	NR Band n71	20	23.81	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.044	37.38	
707.50	141500	Mid	NR Band n12	15	24.33	0.0	Right	Cheek	DFT-s-OFDM QPSK	1	40	1:1	0.075	35.58	
707.50	141500	Mid	NR Band n12	15	24.31	0.0	Right	Cheek	DFT-s-OFDM QPSK	36	22	1:1	0.080	35.28	
707.50	141500	Mid	NR Band n12	15	24.33	0.0	Right	Tilt	DFT-s-OFDM QPSK	1	40	1:1	0.051	37.25	
707.50	141500	Mid	NR Band n12	15	24.31	0.0	Right	Tilt	DFT-s-OFDM QPSK	36	22	1:1	0.055	36.91	
707.50	141500	Mid	NR Band n12	15	24.33	0.0	Left	Cheek	DFT-s-OFDM QPSK	1	40	1:1	0.110	33.92	
707.50	141500	Mid	NR Band n12	15	24.31	0.0	Left	Cheek	DFT-s-OFDM QPSK	36	22	1:1	0.107	34.02	
707.50	141500	Mid	NR Band n12	15	24.33	0.0	Left	Tilt	DFT-s-OFDM QPSK	1	40	1:1	0.053	37.09	
707.50	141500	Mid	NR Band n12	15	24.31	0.0	Left	Tilt	DFT-s-OFDM QPSK	36	22	1:1	0.050	37.32	
707.50	141500	Mid	NR Band n12	15	22.87	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.064	34.81	
836.50	167300	Mid	NR Band n5	20	25.33	0.0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.141	33.84	
836.50	167300	Mid	NR Band n5	20	25.16	0.0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.130	34.02	
836.50	167300	Mid	NR Band n5	20	25.33	0.0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.101	35.29	
836.50	167300	Mid	NR Band n5	20	25.16	0.0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.079	36.18	
836.50	167300	Mid	NR Band n5	20	25.33	0.0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.183	32.71	
836.50	167300	Mid	NR Band n5	20	25.16	0.0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.182	32.56	
836.50	167300	Mid	NR Band n5	20	25.33	0.0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.097	35.46	
836.50	167300	Mid	NR Band n5	20	25.16	0.0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.072	36.59	
836.50	167300	Mid	NR Band n5	20	23.65	1.5	Left	Cheek	CP-OFDM QPSK	1	1	1:1	0.124	32.72	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.158	32.13	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.158	32.10	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.095	34.34	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.084	34.85	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.081	35.04	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.099	34.13	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.075	35.37	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.080	35.06	
1720.00	344000	Low	NR Band n66	20	22.27	1.5	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.096	32.45	
1905.00	381000	High	NR Band n25	20	24.00	0.0	Right	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.168	31.75	
1905.00	381000	High	NR Band n25	20	23.79	0.0	Right	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.163	31.67	
1905.00	381000	High	NR Band n25	20	24.00	0.0	Right	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.065	35.87	
1905.00	381000	High	NR Band n25	20	23.79	0.0	Right	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.067	35.53	
1905.00	381000	High	NR Band n25	20	24.00	0.0	Left	Cheek	DFT-s-OFDM QPSK	1	53	1:1	0.116	33.36	
1905.00	381000	High	NR Band n25	20	23.79	0.0	Left	Cheek	DFT-s-OFDM QPSK	50	28	1:1	0.116	33.15	
1905.00	381000	High	NR Band n25	20	24.00	0.0	Left	Tilt	DFT-s-OFDM QPSK	1	53	1:1	0.092	34.36	
1905.00	381000	High	NR Band n25	20	23.79	0.0	Left	Tilt	DFT-s-OFDM QPSK	50	28	1:1	0.091	34.20	
1882.50	376500	Mid	NR Band n25	20	22.28	1.5	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.119	31.52	
2592.99	518598	Mid	NR Band n41	100	20.37	0.0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:4	0.272	20.00	
2592.99	518598	Mid	NR Band n41	100	20.25	0.0	Right	Cheek	DFT-s-OFDM QPSK	135	0	1:4	0.246	20.32	
2592.99	518598	Mid	NR Band n41	100	20.37	0.0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:4	0.351	18.90	
2592.99	518598	Mid	NR Band n41	100	20.25	0.0	Right	Tilt	DFT-s-OFDM QPSK	135	0	1:4	0.324	19.12	
2592.99	518598	Mid	NR Band n41	100	20.37	0.0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:4	0.184	21.70	
2592.99	518598	Mid	NR Band n41	100	20.25	0.0	Left	Cheek	DFT-s-OFDM QPSK	135	0	1:4	0.181	21.65	
2592.99	518598	Mid	NR Band n41	100	20.37	0.0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:4	0.237	20.80	
2592.99	518598	Mid	NR Band n41	100	20.25	0.0	Left	Tilt	DFT-s-OFDM QPSK	135	0	1:4	0.235	20.52	
2592.99	518598	Mid	NR Band n41	100	20.59	0.0	Right	Tilt	CP-OFDM QPSK	1	1	1:4	0.354	19.08	

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




FCC ID: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-5
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]
820.10	564	CDMA BC10 (§90S)	TDSO / SO32	25.23	15	Back	1:1	0.386	29.36	29.36
824.70	1013	CDMA BC0 (§22H)	TDSO / SO32	25.32	15	Back	1:1	0.391	29.40	29.40
1851.25	25	PCS CDMA	TDSO / SO32	23.51	15	Back	1:1	0.659	25.32	25.06
1880.00	600	PCS CDMA	TDSO / SO32	23.54	15	Back	1:1	0.705	25.06	
1908.75	1175	PCS CDMA	TDSO / SO32	23.59	15	Back	1:1	0.651	25.45	
836.60	190	GSM 850	GSM	32.75	15	Back	1:8.3	0.212	30.29	30.29
1880.00	661	GSM 1900	GSM	29.07	15	Back	1:8.3	0.264	25.65	25.65
836.60	4183	UMTS 850	RMC	25.14	15	Back	1:1	0.296	30.43	30.43
1712.40	1312	UMTS 1750	RMC	23.46	15	Back	1:1	0.713	24.93	24.35
1732.40	1412	UMTS 1750	RMC	23.44	15	Back	1:1	0.764	24.61	
1752.60	1513	UMTS 1750	RMC	23.39	15	Back	1:1	0.802	24.35	
1852.40	9262	UMTS 1900	RMC	23.37	15	Back	1:1	0.528	26.14	25.37
1880.00	9400	UMTS 1900	RMC	23.39	15	Back	1:1	0.529	26.16	
1907.60	9538	UMTS 1900	RMC	23.37	15	Back	1:1	0.631	25.37	

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




FCC ID: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 05/25/20 – 07/10/20	DUT Type: Portable Handset			APPENDIX A: Page 5 of 19

Table A-6
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]
680.50	133297	Mid	LTE Band 71	20	24.96	0	QPSK	1	0	15	Back	1:1	0.167	32.73	32.73
680.50	133297	Mid	LTE Band 71	20	24.04	1	QPSK	50	25	15	Back	1:1	0.120	33.25	
707.50	23095	Mid	LTE Band 12	10	24.94	0	QPSK	1	0	15	Back	1:1	0.235	31.23	31.13
707.50	23095	Mid	LTE Band 12	10	24.03	1	QPSK	25	12	15	Back	1:1	0.195	31.13	
782.00	23230	Mid	LTE Band 13	10	25.03	0	QPSK	1	0	15	Back	1:1	0.306	30.17	29.81
782.00	23230	Mid	LTE Band 13	10	24.08	1	QPSK	25	25	15	Back	1:1	0.267	29.81	
793.00	23330	Mid	LTE Band 14	10	25.05	0	QPSK	1	0	15	Back	1:1	0.352	29.58	29.58
793.00	23330	Mid	LTE Band 14	10	24.02	1	QPSK	25	12	15	Back	1:1	0.273	29.66	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.04	0	QPSK	1	0	15	Back	1:1	0.336	29.78	29.60
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.07	1	QPSK	36	37	15	Back	1:1	0.280	29.60	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.01	0	QPSK	1	0	15	Back	1:1	0.369	29.34	29.34
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.15	1	QPSK	25	12	15	Back	1:1	0.285	29.60	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.10	0	QPSK	1	50	15	Back	1:1	0.647	24.99	24.56
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.95	0	QPSK	1	50	15	Back	1:1	0.690	24.56	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.12	0	QPSK	1	99	15	Back	1:1	0.641	25.05	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.23	1	QPSK	50	25	15	Back	1:1	0.529	25.00	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.16	1	QPSK	100	0	15	Back	1:1	0.530	24.92	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.22	0	QPSK	1	0	15	Back	1:1	0.651	25.08	25.08
1882.50	26365	Mid	LTE Band 25 (PCS)	20	23.16	0	QPSK	1	99	15	Back	1:1	0.536	25.87	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.26	0	QPSK	1	50	15	Back	1:1	0.600	25.48	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.41	1	QPSK	50	50	15	Back	1:1	0.483	25.57	
2310.00	27710	Mid	LTE Band 30	10	23.79	0	QPSK	1	0	15	Back	1:1	0.518	26.65	26.65
2310.00	27710	Mid	LTE Band 30	10	22.89	1	QPSK	25	12	15	Back	1:1	0.410	26.76	
2510.00	20850	Low	LTE Band 7	20	23.44	0	QPSK	1	99	15	Back	1:1	0.526	26.23	26.21
2535.00	21100	Mid	LTE Band 7	20	23.56	0	QPSK	1	99	15	Back	1:1	0.484	26.71	
21350.00	21350	High	LTE Band 7	20	23.61	0	QPSK	1	0	15	Back	1:1	0.550	26.21	
21350.00	21350	High	LTE Band 7	20	22.65	1	QPSK	50	0	15	Back	1:1	0.441	26.21	
3646.70	56207	Mid-High	LTE Band 48	20	23.23	0	QPSK	1	0	15	Back	1:1.58	0.291	26.61	26.61
3646.70	56207	Mid-High	LTE Band 48	20	22.31	1	QPSK	50	25	15	Back	1:1.58	0.226	26.78	
2506.00	39750	Low	LTE Band 41	20	24.51	0	QPSK	1	99	15	Back	1:1.58	0.369	26.85	26.85
2506.00	39750	Low	LTE Band 41	20	23.60	1	QPSK	50	25	15	Back	1:1.58	0.290	26.99	

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




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Table A-7
DSI = 0 P_{Limit} Calculations – 5G 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]
680.50	136100	Mid	NR Band n71	20	25.41	0.0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.206	32.27	32.27
680.50	136100	Mid	NR Band n71	20	25.49	0.0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.204	32.39	
680.50	136100	Mid	NR Band n71	20	23.81	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.137	32.44	
707.50	141500	Mid	NR Band n12	15	24.33	0.0	DFT-s-OFDM QPSK	1	40	15	Back	1:1	0.199	31.34	31.11
707.50	141500	Mid	NR Band n12	15	24.31	0.0	DFT-s-OFDM QPSK	36	22	15	Back	1:1	0.199	31.32	
707.50	141500	Mid	NR Band n12	15	22.87	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.150	31.11	
836.50	167300	Mid	NR Band n5	15	25.33	0.0	DFT-s-OFDM QPSK	1	1	15	Back	1:1	0.326	30.20	29.79
836.50	167300	Mid	NR Band n5	15	25.16	0.0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.340	29.85	
836.50	167300	Mid	NR Band n5	15	23.65	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.243	29.79	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	15	Back	1:1	0.616	26.22	24.86
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.757	25.30	
1745.00	349000	Mid	NR Band n66	20	24.08	0.0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.822	24.93	
1770.00	354000	High	NR Band n66	20	23.96	0.0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.813	24.86	
1720.00	344000	Low	NR Band n66	20	22.93	1.0	DFT-s-OFDM QPSK	100	0	15	Back	1:1	0.625	24.97	
1720.00	344000	Low	NR Band n66	20	22.27	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.550	24.87	
1905.00	381000	High	NR Band n25	20	24.00	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.653	25.85	
1860.00	372000	Low	NR Band n25	20	23.68	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.646	25.58	25.50
1882.50	376500	Mid	NR Band n25	20	23.74	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.633	25.73	
1905.00	381000	High	NR Band n25	20	23.79	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.643	25.71	
1882.50	376500	Mid	NR Band n25	20	22.28	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.476	25.50	30.37
2592.99	518598	Mid	NR Band n41	100	24.19	0.0	DFT-s-OFDM QPSK	1	271	15	Back	1:4	0.048	31.36	
2592.99	518598	Mid	NR Band n41	100	24.08	0.0	DFT-s-OFDM QPSK	135	69	15	Back	1:4	0.054	30.74	
2592.99	518598	Mid	NR Band n41	100	22.92	1.5	CP-OFDM QPSK	1	1	15	Back	1:4	0.045	30.37	

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




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Table A-8
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)	P _{Limit}	Minimum P _{Limit}
MHz	Ch.								(W/kg)	[dBm]	[dBm]
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.23	10	Back	N/A	1:1	0.770	26.37	26.37
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.23	10	Front	N/A	1:1	0.578	27.61	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.23	10	Bottom	N/A	1:1	0.420	29.00	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.23	10	Right	N/A	1:1	0.091	35.64	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.23	10	Left	N/A	1:1	0.269	30.93	
824.70	1013	CDMA BC0 (S22H)	EVDO Rev. 0	25.51	10	Back	N/A	1:1	0.882	26.06	25.90
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	25.33	10	Back	N/A	1:1	0.878	25.90	
848.31	777	CDMA BC0 (S22H)	EVDO Rev. 0	24.16	10	Back	N/A	1:1	0.638	26.11	
824.70	1013	CDMA BC0 (S22H)	EVDO Rev. 0	25.51	10	Front	N/A	1:1	0.608	27.67	
824.70	1013	CDMA BC0 (S22H)	EVDO Rev. 0	25.51	10	Bottom	N/A	1:1	0.429	29.19	
824.70	1013	CDMA BC0 (S22H)	EVDO Rev. 0	25.51	10	Right	N/A	1:1	0.087	36.11	
824.70	1013	CDMA BC0 (S22H)	EVDO Rev. 0	25.51	10	Left	N/A	1:1	0.299	30.75	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.74	10	Back	N/A	1:1	0.412	22.59	18.16
1880.00	600	PCS CDMA	EVDO Rev. 0	18.74	10	Front	N/A	1:1	0.352	23.27	
1851.25	25	PCS CDMA	EVDO Rev. 0	18.60	10	Bottom	N/A	1:1	0.843	19.34	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.74	10	Bottom	N/A	1:1	0.986	18.80	
1908.75	1175	PCS CDMA	EVDO Rev. 0	18.69	10	Bottom	N/A	1:1	1.130	18.16	
1880.00	600	PCS CDMA	EVDO Rev. 0	18.74	10	Right	N/A	1:1	0.092	29.10	30.22
1880.00	600	PCS CDMA	EVDO Rev. 0	18.74	10	Left	N/A	1:1	0.048	31.93	
836.60	190	GSM 850	GPRS	29.76	10	Back	3	1:2.76	0.324	30.22	
836.60	190	GSM 850	GPRS	29.76	10	Front	3	1:2.76	0.243	31.47	
836.60	190	GSM 850	GPRS	29.76	10	Bottom	3	1:2.76	0.190	32.54	
836.60	190	GSM 850	GPRS	29.76	10	Right	3	1:2.76	0.046	38.70	
836.60	190	GSM 850	GPRS	29.76	10	Left	3	1:2.76	0.145	33.72	
1880.00	661	GSM 1900	GPRS	21.99	10	Back	4	1:2.076	0.410	22.68	19.05
1880.00	661	GSM 1900	GPRS	21.99	10	Front	4	1:2.076	0.293	24.14	
1850.20	512	GSM 1900	GPRS	21.79	10	Bottom	4	1:2.076	0.674	20.32	
1880.00	661	GSM 1900	GPRS	21.99	10	Bottom	4	1:2.076	0.924	19.15	
1909.80	810	GSM 1900	GPRS	21.88	10	Bottom	4	1:2.076	0.922	19.05	
1880.00	661	GSM 1900	GPRS	21.99	10	Right	4	1:2.076	0.083	29.62	
1880.00	661	GSM 1900	GPRS	21.99	10	Left	4	1:2.076	0.048	32.00	
826.40	4132	UMTS 850	RMC	25.16	10	Back	N/A	1:1	0.753	26.39	26.39
836.60	4183	UMTS 850	RMC	25.14	10	Back	N/A	1:1	0.738	26.46	
846.60	4233	UMTS 850	RMC	25.08	10	Back	N/A	1:1	0.641	27.01	
836.60	4183	UMTS 850	RMC	25.14	10	Front	N/A	1:1	0.445	28.66	
836.60	4183	UMTS 850	RMC	25.14	10	Bottom	N/A	1:1	0.363	29.54	
836.60	4183	UMTS 850	RMC	25.14	10	Right	N/A	1:1	0.083	35.95	
836.60	4183	UMTS 850	RMC	25.14	10	Left	N/A	1:1	0.255	31.07	
1732.40	1412	UMTS 1750	RMC	19.24	10	Back	N/A	1:1	0.607	21.41	19.14
1732.40	1412	UMTS 1750	RMC	19.24	10	Front	N/A	1:1	0.482	22.41	
1712.40	1312	UMTS 1750	RMC	19.30	10	Bottom	N/A	1:1	0.933	19.60	
1732.40	1412	UMTS 1750	RMC	19.24	10	Bottom	N/A	1:1	0.981	19.32	
1752.60	1513	UMTS 1750	RMC	19.27	10	Bottom	N/A	1:1	1.030	19.14	
1732.40	1412	UMTS 1750	RMC	19.24	10	Right	N/A	1:1	0.103	29.11	
1732.40	1412	UMTS 1750	RMC	19.24	10	Left	N/A	1:1	0.070	30.79	
1880.00	9400	UMTS 1900	RMC	18.76	10	Back	N/A	1:1	0.443	22.30	18.13
1880.00	9400	UMTS 1900	RMC	18.76	10	Front	N/A	1:1	0.351	23.31	
1852.40	9262	UMTS 1900	RMC	18.71	10	Bottom	N/A	1:1	0.839	19.47	
1880.00	9400	UMTS 1900	RMC	18.76	10	Bottom	N/A	1:1	0.988	18.81	
1907.60	9538	UMTS 1900	RMC	18.85	10	Bottom	N/A	1:1	1.180	18.13	
1880.00	9400	UMTS 1900	RMC	18.76	10	Right	N/A	1:1	0.091	29.17	
1880.00	9400	UMTS 1900	RMC	18.76	10	Left	N/A	1:1	0.059	31.05	

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




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Table A-9
DSI = 3 P_{Limit} Calculations – 4G Hotspot SAR

MEASUREMENT RESULTS													SAR (1g) (W/kg)	PLimit (dBm)	Minimum PLimit (dBm)
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing [mm]	Side	Duty Cycle				
MHz	Ch.														
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	10	Back	1:1	0.291	30.32	26.66
680.50	133297	Md	LTE Band 71	20	24.04	1	QPSK	50	25	10	Back	1:1	0.274	29.66	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	10	Front	1:1	0.195	32.06	
680.50	133297	Md	LTE Band 71	20	24.04	1	QPSK	50	25	10	Front	1:1	0.191	31.23	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	10	Bottom	1:1	0.152	33.14	
680.50	133297	Md	LTE Band 71	20	24.04	1	QPSK	50	25	10	Bottom	1:1	0.114	33.47	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	10	Right	1:1	0.088	35.52	
680.50	133297	Md	LTE Band 71	20	24.04	1	QPSK	50	25	10	Right	1:1	0.047	37.32	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	10	Left	1:1	0.165	32.79	
680.50	133297	Md	LTE Band 71	20	24.04	1	QPSK	50	25	10	Left	1:1	0.147	32.37	
707.50	23095	Md	LTE Band 12	10	24.94	0	QPSK	1	0	10	Back	1:1	0.389	29.04	26.69
707.50	23095	Md	LTE Band 12	10	24.03	1	QPSK	25	12	10	Back	1:1	0.342	28.69	
707.50	23095	Md	LTE Band 12	10	24.94	0	QPSK	1	0	10	Front	1:1	0.258	30.82	
707.50	23095	Md	LTE Band 12	10	24.03	1	QPSK	25	12	10	Front	1:1	0.229	30.43	
707.50	23095	Md	LTE Band 12	10	24.94	0	QPSK	1	0	10	Bottom	1:1	0.244	31.07	
707.50	23095	Md	LTE Band 12	10	24.03	1	QPSK	25	12	10	Bottom	1:1	0.204	30.93	
707.50	23095	Md	LTE Band 12	10	24.94	0	QPSK	1	0	10	Right	1:1	0.101	34.90	
707.50	23095	Md	LTE Band 12	10	24.03	1	QPSK	25	12	10	Right	1:1	0.090	34.49	
707.50	23095	Md	LTE Band 12	10	24.94	0	QPSK	1	0	10	Left	1:1	0.231	31.30	
707.50	23095	Md	LTE Band 12	10	24.03	1	QPSK	25	12	10	Left	1:1	0.222	30.57	
782.00	23230	Md	LTE Band 13	10	25.03	0	QPSK	1	0	10	Back	1:1	0.549	27.63	27.41
782.00	23230	Md	LTE Band 13	10	24.08	1	QPSK	25	25	10	Back	1:1	0.465	27.41	
782.00	23230	Md	LTE Band 13	10	25.03	0	QPSK	1	0	10	Front	1:1	0.410	28.90	
782.00	23230	Md	LTE Band 13	10	24.08	1	QPSK	25	25	10	Front	1:1	0.359	28.53	
782.00	23230	Md	LTE Band 13	10	25.03	0	QPSK	1	0	10	Bottom	1:1	0.325	29.91	
782.00	23230	Md	LTE Band 13	10	24.08	1	QPSK	25	25	10	Bottom	1:1	0.290	29.46	
782.00	23230	Md	LTE Band 13	10	25.03	0	QPSK	1	0	10	Right	1:1	0.089	35.54	
782.00	23230	Md	LTE Band 13	10	24.08	1	QPSK	25	25	10	Right	1:1	0.086	34.74	
782.00	23230	Md	LTE Band 13	10	25.03	0	QPSK	1	0	10	Left	1:1	0.265	30.80	
782.00	23230	Md	LTE Band 13	10	24.08	1	QPSK	25	25	10	Left	1:1	0.215	30.76	
793.00	23330	Md	LTE Band 14	10	25.05	0	QPSK	1	0	10	Back	1:1	0.594	27.31	27.31
793.00	23330	Md	LTE Band 14	10	24.02	1	QPSK	25	12	10	Back	1:1	0.461	27.38	
793.00	23330	Md	LTE Band 14	10	25.05	0	QPSK	1	0	10	Front	1:1	0.452	28.50	
793.00	23330	Md	LTE Band 14	10	24.02	1	QPSK	25	12	10	Front	1:1	0.346	28.63	
793.00	23330	Md	LTE Band 14	10	25.05	0	QPSK	1	0	10	Bottom	1:1	0.343	29.70	
793.00	23330	Md	LTE Band 14	10	24.02	1	QPSK	25	12	10	Bottom	1:1	0.266	29.77	
793.00	23330	Md	LTE Band 14	10	25.05	0	QPSK	1	0	10	Right	1:1	0.108	34.72	
793.00	23330	Md	LTE Band 14	10	24.02	1	QPSK	25	12	10	Right	1:1	0.074	35.33	
793.00	23330	Md	LTE Band 14	10	25.05	0	QPSK	1	0	10	Left	1:1	0.313	30.09	
793.00	23330	Md	LTE Band 14	10	24.02	1	QPSK	25	12	10	Left	1:1	0.235	30.31	
831.50	26865	Md	LTE Band 26 (Cell)	15	25.04	0	QPSK	1	0	10	Back	1:1	0.620	27.12	26.91
831.50	26865	Md	LTE Band 26 (Cell)	15	24.07	1	QPSK	36	37	10	Back	1:1	0.520	26.91	
831.50	26865	Md	LTE Band 26 (Cell)	15	25.04	0	QPSK	1	0	10	Front	1:1	0.426	28.75	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.07	1	QPSK	36	37	10	Front	1:1	0.355	28.57	
831.50	26865	Md	LTE Band 26 (Cell)	15	25.04	0	QPSK	1	0	10	Bottom	1:1	0.362	29.45	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.07	1	QPSK	36	37	10	Bottom	1:1	0.288	29.48	
831.50	26865	Md	LTE Band 26 (Cell)	15	25.04	0	QPSK	1	0	10	Right	1:1	0.075	36.29	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.07	1	QPSK	36	37	10	Right	1:1	0.064	36.01	
831.50	26865	Md	LTE Band 26 (Cell)	15	25.04	0	QPSK	1	0	10	Left	1:1	0.223	31.56	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.07	1	QPSK	36	37	10	Left	1:1	0.177	31.59	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.01	0	QPSK	1	0	10	Back	1:1	0.728	26.39	26.39
836.50	20525	Md	LTE Band 5 (Cell)	10	24.15	1	QPSK	25	12	10	Back	1:1	0.584	26.49	
836.50	20525	Md	LTE Band 5 (Cell)	10	24.01	1	QPSK	50	0	10	Back	1:1	0.569	26.46	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.01	0	QPSK	1	0	10	Front	1:1	0.445	28.53	
836.50	20525	Md	LTE Band 5 (Cell)	10	24.15	1	QPSK	25	12	10	Front	1:1	0.358	28.61	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.01	0	QPSK	1	0	10	Bottom	1:1	0.377	29.25	
836.50	20525	Md	LTE Band 5 (Cell)	10	24.15	1	QPSK	25	12	10	Bottom	1:1	0.284	29.62	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.01	0	QPSK	1	0	10	Right	1:1	0.079	36.03	
836.50	20525	Md	LTE Band 5 (Cell)	10	24.15	1	QPSK	25	12	10	Right	1:1	0.061	36.30	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.01	0	QPSK	1	0	10	Left	1:1	0.237	31.26	
836.50	20525	Md	LTE Band 5 (Cell)	10	24.15	1	QPSK	25	12	10	Left	1:1	0.178	31.65	

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




FCC ID: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 05/25/20 – 07/10/20	DUT Type: Portable Handset			APPENDIX A: Page 9 of 19

Table A-10
DSI = 3 P_{Limit} Calculations – 4G Hotspot SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Bandwidth (MHz)	Conducted Power (dBm)	MFR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Dry Cycle	SAR (W/kg)	P_{Limit} (dBm)	Maximum Point (dBm)
Mhz	Ch													
1720.00	15202	Low	LTE Band 66 (AWS)	20	19.16	0	QPSK	1	50	10	Back	1.1	0.464	22.59
1720.00	15202	Low	LTE Band 66 (AWS)	20	19.24	0	QPSK	50	25	10	Back	1.1	0.464	22.67
1720.00	15202	Low	LTE Band 66 (AWS)	20	19.16	0	QPSK	1	50	10	Front	1.1	0.388	23.27
1720.00	15202	Low	LTE Band 66 (AWS)	20	19.24	0	QPSK	50	25	10	Front	1.1	0.487	23.14
1720.00	15202	Low	LTE Band 66 (AWS)	20	19.16	0	QPSK	1	50	10	Bottom	1.1	0.763	20.33
1720.00	15202	Low	LTE Band 66 (AWS)	20	19.24	0	QPSK	50	25	10	Bottom	1.1	0.820	20.05
1745.00	15252	Mid	LTE Band 66 (AWS)	20	19.50	0	QPSK	1	50	10	Bottom	1.1	0.837	19.87
1745.00	15252	High	LTE Band 66 (AWS)	20	19.50	0	QPSK	1	50	10	Bottom	1.1	0.882	19.64
1745.00	15252	Low	LTE Band 66 (AWS)	20	19.24	0	QPSK	50	25	10	Bottom	1.1	0.820	20.05
1745.00	15252	Mid	LTE Band 66 (AWS)	20	19.15	0	QPSK	50	25	10	Bottom	1.1	0.896	19.83
1770.00	15252	High	LTE Band 66 (AWS)	20	19.50	0	QPSK	50	0	10	Bottom	1.1	0.916	19.47
1770.00	15202	Low	LTE Band 66 (AWS)	20	19.15	0	QPSK	100	0	10	Bottom	1.1	0.815	20.04
1770.00	15202	Low	LTE Band 66 (AWS)	20	19.16	0	QPSK	1	50	10	Right	1.1	0.132	20.07
1770.00	15202	Low	LTE Band 66 (AWS)	20	19.24	0	QPSK	50	25	10	Right	1.1	0.097	20.37
1770.00	15202	Low	LTE Band 66 (AWS)	20	19.16	0	QPSK	1	50	10	Left	1.1	0.057	31.80
1770.00	15202	Low	LTE Band 66 (AWS)	20	19.24	0	QPSK	50	25	10	Left	1.1	0.059	31.83
1902.00	2650	High	LTE Band 25 (PCS)	20	19.30	0	QPSK	1	0	10	Back	1.1	0.079	22.96
1902.00	2650	High	LTE Band 25 (PCS)	20	19.34	0	QPSK	50	25	10	Back	1.1	0.419	22.75
1902.00	2650	High	LTE Band 25 (PCS)	20	19.13	0	QPSK	1	0	10	Front	1.1	0.261	23.94
1902.00	2650	High	LTE Band 25 (PCS)	20	19.34	0	QPSK	50	25	10	Front	1.1	0.254	23.70
1902.00	2614	Low	LTE Band 25 (PCS)	20	18.83	0	QPSK	1	0	10	Bottom	1.1	0.819	19.51
1902.00	2614	Low	LTE Band 25 (PCS)	20	19.34	0	QPSK	1	50	10	Bottom	1.1	0.837	19.62
1902.00	2650	High	LTE Band 25 (PCS)	20	19.13	0	QPSK	1	0	10	Bottom	1.1	0.261	18.90
1902.00	2614	Low	LTE Band 25 (PCS)	20	19.17	0	QPSK	50	0	10	Bottom	1.1	0.261	19.42
1902.00	2614	Low	LTE Band 25 (PCS)	20	19.19	0	QPSK	50	25	10	Bottom	1.1	0.079	18.90
1902.00	2650	High	LTE Band 25 (PCS)	20	19.34	0	QPSK	50	25	10	Bottom	1.1	0.460	18.77
1902.00	2650	High	LTE Band 25 (PCS)	20	19.11	0	QPSK	100	0	10	Bottom	1.1	0.079	18.47
1902.00	2650	High	LTE Band 25 (PCS)	20	19.13	0	QPSK	1	0	10	Right	1.1	0.075	29.98
1902.00	2650	High	LTE Band 25 (PCS)	20	19.34	0	QPSK	50	25	10	Right	1.1	0.079	30.13
1902.00	2650	High	LTE Band 25 (PCS)	20	19.13	0	QPSK	1	0	10	Left	1.1	0.061	31.68
1902.00	2650	High	LTE Band 25 (PCS)	20	19.34	0	QPSK	50	25	10	Left	1.1	0.064	31.62
2202.00	2710	Mid	LTE Band 30	10	19.27	0	QPSK	1	0	10	Back	1.1	0.270	23.90
2202.00	2710	Mid	LTE Band 30	10	19.16	0	QPSK	25	12	10	Back	1.1	0.270	23.90
2202.00	2710	Mid	LTE Band 30	10	19.27	0	QPSK	1	0	10	Front	1.1	0.270	23.98
2202.00	2710	Mid	LTE Band 30	10	19.16	0	QPSK	25	12	10	Front	1.1	0.270	23.77
2202.00	2710	Mid	LTE Band 30	10	19.27	0	QPSK	1	0	10	Bottom	1.1	0.270	20.23
2202.00	2710	Mid	LTE Band 30	10	19.16	0	QPSK	25	12	10	Bottom	1.1	0.270	20.28
2202.00	2710	Mid	LTE Band 30	10	19.27	0	QPSK	1	0	10	Right	1.1	0.270	30.05
2202.00	2710	Mid	LTE Band 30	10	19.16	0	QPSK	25	12	10	Right	1.1	0.270	30.70
2130.00	2150	High	LTE Band 7	20	20.12	0	QPSK	1	0	10	Back	1.1	0.400	24.05
2130.00	2150	High	LTE Band 7	20	20.20	0	QPSK	50	25	10	Back	1.1	0.363	24.26
2130.00	2150	High	LTE Band 7	20	20.12	0	QPSK	1	0	10	Front	1.1	0.288	25.53
2130.00	2150	High	LTE Band 7	20	20.20	0	QPSK	50	25	10	Front	1.1	0.260	25.58
2510.00	2090	Low	LTE Band 7	20	19.96	0	QPSK	1	0	10	Bottom	1.1	0.710	21.38
2510.00	2110	Mid	LTE Band 7	20	20.09	0	QPSK	1	50	10	Bottom	1.1	0.750	21.30
2510.00	2150	High	LTE Band 7	20	20.12	0	QPSK	1	0	10	Bottom	1.1	0.750	21.46
2510.00	2090	Low	LTE Band 7	20	20.03	0	QPSK	50	25	10	Bottom	1.1	0.748	21.29
2510.00	2110	Mid	LTE Band 7	20	20.14	0	QPSK	50	25	10	Bottom	1.1	0.757	21.47
2130.00	2150	High	LTE Band 7	20	20.20	0	QPSK	50	25	10	Bottom	1.1	0.715	21.66
2130.00	2150	High	LTE Band 7	20	20.11	0	QPSK	100	0	10	Bottom	1.1	0.700	21.66
2130.00	2150	High	LTE Band 7	20	20.12	0	QPSK	1	0	10	Right	1.1	0.132	28.91
2130.00	2150	High	LTE Band 7	20	20.20	0	QPSK	50	25	10	Right	1.1	0.134	28.93
3602.00	5540	Low	LTE Band 48	20	23.20	0	QPSK	1	0	10	Back	1.158	0.475	24.46
3602.00	5573	Low-Mid	LTE Band 48	20	23.15	0	QPSK	1	50	10	Back	1.158	0.463	24.24
3642.70	5607	Mid-High	LTE Band 48	20	23.23	0	QPSK	1	0	10	Back	1.158	0.519	24.09
3650.00	5640	High	LTE Band 48	20	23.94	0	QPSK	1	0	10	Back	1.158	0.564	24.03
3642.70	5607	Mid-High	LTE Band 48	20	22.27	1	QPSK	50	25	10	Back	1.158	0.424	24.05
3653.30	5573	Low-Mid	LTE Band 48	20	22.26	1	QPSK	100	0	10	Back	1.158	0.367	24.40
3642.70	5607	Mid-High	LTE Band 48	20	23.23	0	QPSK	1	0	10	Front	1.158	0.271	26.91
3642.70	5607	Mid-High	LTE Band 48	20	23.31	1	QPSK	50	25	10	Front	1.158	0.218	26.98
3650.00	5540	Low	LTE Band 48	20	23.20	0	QPSK	1	0	10	Top	1.158	0.769	22.36
3602.00	5573	Low-Mid	LTE Band 48	20	23.15	0	QPSK	1	50	10	Top	1.158	0.528	22.54
3642.70	5607	Mid-High	LTE Band 48	20	23.23	0	QPSK	1	0	10	Top	1.158	0.794	22.47
3650.00	5640	High	LTE Band 48	20	23.94	0	QPSK	1	0	10	Top	1.158	0.880	22.32
3680.00	5540	Low	LTE Band 48	20	22.20	1	QPSK	50	25	10	Top	1.158	0.687	22.27
3653.30	5573	Low-Mid	LTE Band 48	20	22.25	1	QPSK	50	25	10	Top	1.158	0.579	22.84
3642.70	5607	Mid-High	LTE Band 48	20	22.31	1	QPSK	50	25	10	Top	1.158	0.370	22.73
3650.00	5640	High	LTE Band 48	20	22.16	1	QPSK	50	25	10	Top	1.158	0.537	22.87
3602.00	5573	Low-Mid	LTE Band 48	20	22.26	1	QPSK	100	0	10	Top	1.158	0.590	22.57
3642.70	5607	Mid-High	LTE Band 48	20	23.23	0	QPSK	1	0	10	Left	1.158	0.339	25.98
3642.70	5607	Mid-High	LTE Band 48	20	22.37	1	QPSK	50	25	10	Left	1.158	0.249	26.41
2508.00	3970	Low	LTE Band 41	20	21.30	0	QPSK	1	0	10	Back	1.158	0.380	23.77
2508.00	3970	Low	LTE Band 41	20	21.36	0	QPSK	50	0	10	Back	1.158	0.369	23.69
2508.00	3970	Low	LTE Band 41	20	21.30	0	QPSK	1	0	10	Front	1.158	0.270	25.02
2508.00	3970	Low	LTE Band 41	20	21.36	0	QPSK	50	0	10	Front	1.158	0.270	25.05
2508.00	3970	Low	LTE Band 41	20	21.30	0	QPSK	1	0	10	Bottom	1.158	0.670	21.07
2548.00	4018	Low-Mid	LTE Band 41	20	21.01	0	QPSK	1	0	10	Bottom	1.158	0.577	21.41
2533.00	4060	Mid	LTE Band 41	20	20.60	0	QPSK	1	50	10	Bottom	1.158	0.261	21.84
2638.00	4105	Mid-High	LTE Band 41	20	20.90	0	QPSK	1	50	10	Bottom	1.158	0.488	22.03
2680.00	4160	High	LTE Band 41	20	20.66	0	QPSK	1	50	10	Bottom	1.158	0.435	22.98
2508.00	3970	Low	LTE Band 41	20	21.36	0	QPSK	50	0	10	Bottom	1.158	0.639	21.32
2548.00	4018	Low-Mid	LTE Band 41	20	21.09	0	QPSK	50	25	10	Bottom	1.158	0.988	21.41
2533.00	4060	Mid	LTE Band 41	20	20.60	0	QPSK	50	25	10	Bottom	1.158	0.612	21.82
2638.00	4105	Mid-High	LTE Band 41	20	20.97	0	QPSK	50	25	10	Bottom	1.158	0.434	22.61
2680.00	4160	High	LTE Band 41	20	21.17	0	QPSK	50	50	10	Bottom	1.158	0.413	22.82
2508.00	3970	Low	LTE Band 41	20	21.36	0	QPSK	100	0	10	Bottom	1.158	0.590	21.94
2508.00	3970	Low	LTE Band 41	20	21.30	0	QPSK	1	0	10	Right	1.158	0.134	26.06
2508.00	3970	Low	LTE Band 41	20	21.36	0	QPSK	50	0	10	Right	1.158	0.141	27.87

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



<p>FCC ID: A3LSMN981U</p>	 <p>PART 0 SAR CHAR REPORT</p>	 <p>Approved by: Quality Manager</p>
<p>Test Dates: 05/25/20 – 07/10/20</p>	<p>DUT Type: Portable Handset</p>	<p>APPENDIX A: Page 10 of 19</p>

Table A-11
DSI = 3 P_{Limit} Calculations – 5G Hotspot SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Bandwidth (MHz)	Conducted Power (dBm)	MPR (dB)	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (W/kg)	P _{Limit} (dBm)	Minimum P _{Limit} (dBm)
Mhz	Ch.													
680.50	136100	Mtd	NR Band n71	20	25.41	0.0	DFT-s-OFDM GPRS	1	53	10	Back	1.1	0.363	29.81
680.50	136100	Mtd	NR Band n71	20	25.49	0.0	DFT-s-OFDM GPRS	50	28	10	Back	1.1	0.362	29.90
680.50	136100	Mtd	NR Band n71	20	25.41	0.0	DFT-s-OFDM GPRS	1	53	10	Front	1.1	0.243	31.55
680.50	136100	Mtd	NR Band n71	20	25.49	0.0	DFT-s-OFDM GPRS	50	28	10	Front	1.1	0.235	31.78
680.50	136100	Mtd	NR Band n71	20	25.41	0.0	DFT-s-OFDM GPRS	1	53	10	Bottom	1.1	0.185	32.74
680.50	136100	Mtd	NR Band n71	20	25.49	0.0	DFT-s-OFDM GPRS	50	28	10	Bottom	1.1	0.175	33.06
680.50	136100	Mtd	NR Band n71	20	25.41	0.0	DFT-s-OFDM GPRS	1	53	10	Right	1.1	0.096	35.59
680.50	136100	Mtd	NR Band n71	20	25.49	0.0	DFT-s-OFDM GPRS	50	28	10	Right	1.1	0.092	35.85
680.50	136100	Mtd	NR Band n71	20	25.41	0.0	DFT-s-OFDM GPRS	1	53	10	Left	1.1	0.201	32.38
680.50	136100	Mtd	NR Band n71	20	25.49	0.0	DFT-s-OFDM GPRS	50	28	10	Left	1.1	0.192	32.59
680.50	136100	Mtd	NR Band n71	20	23.81	1.5	CP-OFDM GPRS	1	1	10	Back	1.1	0.195	30.69
707.50	141500	Mtd	NR Band n12	15	24.33	0.0	DFT-s-OFDM GPRS	1	40	10	Back	1.1	0.365	28.70
707.50	141500	Mtd	NR Band n12	15	24.31	0.0	DFT-s-OFDM GPRS	36	22	10	Back	1.1	0.358	28.65
707.50	141500	Mtd	NR Band n12	15	24.33	0.0	DFT-s-OFDM GPRS	1	40	10	Front	1.1	0.227	30.77
707.50	141500	Mtd	NR Band n12	15	24.31	0.0	DFT-s-OFDM GPRS	36	22	10	Front	1.1	0.232	30.69
707.50	141500	Mtd	NR Band n12	15	24.33	0.0	DFT-s-OFDM GPRS	1	40	10	Bottom	1.1	0.215	31.01
707.50	141500	Mtd	NR Band n12	15	24.31	0.0	DFT-s-OFDM GPRS	36	22	10	Bottom	1.1	0.215	30.99
707.50	141500	Mtd	NR Band n12	15	24.33	0.0	DFT-s-OFDM GPRS	1	40	10	Right	1.1	0.088	34.80
707.50	141500	Mtd	NR Band n12	15	24.31	0.0	DFT-s-OFDM GPRS	36	22	10	Right	1.1	0.086	34.97
707.50	141500	Mtd	NR Band n12	15	24.33	0.0	DFT-s-OFDM GPRS	1	40	10	Left	1.1	0.254	30.28
707.50	141500	Mtd	NR Band n12	15	24.31	0.0	DFT-s-OFDM GPRS	36	22	10	Left	1.1	0.248	30.37
707.50	141500	Mtd	NR Band n12	15	22.87	1.5	CP-OFDM GPRS	1	1	10	Back	1.1	0.234	29.18
836.50	167300	Mtd	NR Band n5	20	25.33	0.0	DFT-s-OFDM GPRS	1	1	10	Back	1.1	0.735	26.66
836.50	167300	Mtd	NR Band n5	20	25.16	0.0	DFT-s-OFDM GPRS	50	28	10	Back	1.1	0.715	26.62
836.50	167300	Mtd	NR Band n5	20	24.30	1.0	DFT-s-OFDM GPRS	100	0	10	Back	1.1	0.562	26.65
836.50	167300	Mtd	NR Band n5	20	25.33	0.0	DFT-s-OFDM GPRS	1	1	10	Front	1.1	0.408	29.22
836.50	167300	Mtd	NR Band n5	20	25.16	0.0	DFT-s-OFDM GPRS	50	28	10	Front	1.1	0.420	28.93
836.50	167300	Mtd	NR Band n5	20	25.33	0.0	DFT-s-OFDM GPRS	1	1	10	Bottom	1.1	0.333	30.11
836.50	167300	Mtd	NR Band n5	20	25.16	0.0	DFT-s-OFDM GPRS	50	28	10	Bottom	1.1	0.322	30.08
836.50	167300	Mtd	NR Band n5	20	25.33	0.0	DFT-s-OFDM GPRS	1	1	10	Right	1.1	0.077	36.47
836.50	167300	Mtd	NR Band n5	20	25.16	0.0	DFT-s-OFDM GPRS	50	28	10	Right	1.1	0.078	36.24
836.50	167300	Mtd	NR Band n5	20	25.33	0.0	DFT-s-OFDM GPRS	1	1	10	Left	1.1	0.205	32.19
836.50	167300	Mtd	NR Band n5	20	25.16	0.0	DFT-s-OFDM GPRS	50	28	10	Left	1.1	0.215	31.84
836.50	167300	Mtd	NR Band n5	20	23.65	1.5	CP-OFDM GPRS	1	1	10	Back	1.1	0.545	26.29
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM GPRS	1	1	10	Back	1.1	0.952	22.53
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM GPRS	50	28	10	Back	1.1	0.602	22.40
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM GPRS	1	1	10	Front	1.1	0.905	23.21
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM GPRS	50	28	10	Front	1.1	0.908	23.14
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM GPRS	1	1	10	Bottom	1.1	1.040	20.08
1745.00	349000	Mtd	NR Band n68	20	20.24	0.0	DFT-s-OFDM GPRS	1	1	10	Bottom	1.1	1.100	19.83
1770.00	354000	High	NR Band n66	20	20.16	0.0	DFT-s-OFDM GPRS	1	104	10	Bottom	1.1	1.040	19.99
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM GPRS	50	28	10	Bottom	1.1	1.080	19.87
1745.00	349000	Mtd	NR Band n66	20	20.19	0.0	DFT-s-OFDM GPRS	50	28	10	Bottom	1.1	1.110	19.74
1770.00	354000	High	NR Band n66	20	20.08	0.0	DFT-s-OFDM GPRS	50	28	10	Bottom	1.1	1.060	19.83
1720.00	344000	Low	NR Band n66	20	20.12	0.0	DFT-s-OFDM GPRS	100	0	10	Bottom	1.1	1.060	19.87
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM GPRS	1	1	10	Right	1.1	0.130	26.11
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM GPRS	50	28	10	Right	1.1	0.121	26.37
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM GPRS	1	1	10	Left	1.1	0.068	31.92
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM GPRS	50	28	10	Left	1.1	0.071	31.69
1770.00	354000	High	NR Band n66	20	20.06	0.0	CP-OFDM GPRS	1	1	10	Bottom	1.1	1.140	19.51
1882.50	376500	Mtd	NR Band n25	20	19.11	0.0	DFT-s-OFDM GPRS	1	53	10	Back	1.1	0.405	22.99
1882.50	376500	Mtd	NR Band n25	20	18.99	0.0	DFT-s-OFDM GPRS	50	0	10	Back	1.1	0.401	22.96
1882.50	376500	Mtd	NR Band n25	20	19.11	0.0	DFT-s-OFDM GPRS	1	53	10	Front	1.1	0.324	24.00
1882.50	376500	Mtd	NR Band n25	20	18.99	0.0	DFT-s-OFDM GPRS	50	0	10	Front	1.1	0.314	24.02
1860.00	372000	Low	NR Band n25	20	18.94	0.0	DFT-s-OFDM GPRS	1	53	10	Bottom	1.1	0.883	19.48
1882.50	376500	Mtd	NR Band n25	20	19.11	0.0	DFT-s-OFDM GPRS	1	53	10	Bottom	1.1	0.989	19.16
1905.00	381000	High	NR Band n25	20	18.88	0.0	DFT-s-OFDM GPRS	1	53	10	Bottom	1.1	1.030	18.75
1860.00	372000	Low	NR Band n25	20	18.94	0.0	DFT-s-OFDM GPRS	50	28	10	Bottom	1.1	0.849	19.55
1882.50	376500	Mtd	NR Band n25	20	18.99	0.0	DFT-s-OFDM GPRS	50	0	10	Bottom	1.1	0.870	19.12
1905.00	381000	High	NR Band n25	20	18.89	0.0	DFT-s-OFDM GPRS	50	0	10	Bottom	1.1	0.972	19.01
1882.50	376500	Mtd	NR Band n25	20	18.98	0.0	DFT-s-OFDM GPRS	100	0	10	Bottom	1.1	0.941	19.24
1882.50	376500	Mtd	NR Band n25	20	19.11	0.0	DFT-s-OFDM GPRS	1	53	10	Right	1.1	0.077	30.25
1882.50	376500	Mtd	NR Band n25	20	18.99	0.0	DFT-s-OFDM GPRS	50	0	10	Right	1.1	0.080	29.96
1882.50	376500	Mtd	NR Band n25	20	19.11	0.0	DFT-s-OFDM GPRS	1	53	10	Left	1.1	0.062	31.19
1882.50	376500	Mtd	NR Band n25	20	18.99	0.0	DFT-s-OFDM GPRS	50	0	10	Left	1.1	0.061	31.14
1882.50	376500	Mtd	NR Band n25	20	19.05	0.0	CP-OFDM GPRS	1	1	10	Bottom	1.1	0.936	19.34
2592.59	518598	Mtd	NR Band n41	100	24.19	0.0	DFT-s-OFDM GPRS	1	271	10	Back	1.4	0.102	27.56
2592.59	518598	Mtd	NR Band n41	100	24.08	0.0	DFT-s-OFDM GPRS	135	69	10	Back	1.4	0.114	27.49
2592.59	518598	Mtd	NR Band n41	100	24.19	0.0	DFT-s-OFDM GPRS	1	271	10	Front	1.4	0.062	30.25
2592.59	518598	Mtd	NR Band n41	100	24.08	0.0	DFT-s-OFDM GPRS	135	69	10	Front	1.4	0.076	29.25
2592.59	518598	Mtd	NR Band n41	100	24.19	0.0	DFT-s-OFDM GPRS	1	271	10	Top	1.4	0.100	26.18
2592.59	518598	Mtd	NR Band n41	100	24.08	0.0	DFT-s-OFDM GPRS	135	69	10	Top	1.4	0.254	24.01
2592.59	518598	Mtd	NR Band n41	100	24.19	0.0	DFT-s-OFDM GPRS	1	271	10	Left	1.4	0.041	32.04
2592.59	518598	Mtd	NR Band n41	100	24.08	0.0	DFT-s-OFDM GPRS	135	69	10	Left	1.4	0.038	32.50
2592.59	518598	Mtd	NR Band n41	100	22.92	1.5	CP-OFDM GPRS	1	1	10	Top	1.4	0.215	23.68

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




FCC ID: A3LSMN981U	 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 – 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]
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	8	Back	N/A	1:1	0.468	32.43	32.41
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	6	Front	N/A	1:1	0.470	32.41	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	11	Bottom	N/A	1:1	0.145	37.52	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Right	N/A	1:1	0.309	34.23	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Left	N/A	1:1	0.292	34.48	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	8	Back	N/A	1:1	0.485	31.99	31.99
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	6	Front	N/A	1:1	0.480	32.04	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	11	Bottom	N/A	1:1	0.157	36.89	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Right	N/A	1:1	0.293	34.18	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Left	N/A	1:1	0.272	34.50	
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	8	Back	N/A	1:1	0.816	28.52	26.00
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	6	Front	N/A	1:1	0.968	27.78	
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	11	Bottom	N/A	1:1	1.460	26.00	
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	0	Right	N/A	1:1	0.631	29.64	
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	0	Left	N/A	1:1	0.368	31.98	
836.60	190	GSM 850	GPRS	29.57	8	Back	3	1:2.76	0.411	32.98	32.98
836.60	190	GSM 850	GPRS	29.57	6	Front	3	1:2.76	0.337	33.84	
836.60	190	GSM 850	GPRS	29.57	11	Bottom	3	1:2.76	0.109	38.75	
836.60	190	GSM 850	GPRS	29.57	0	Right	3	1:2.76	0.170	36.81	
836.60	190	GSM 850	GPRS	29.57	0	Left	3	1:2.76	0.180	36.57	
1880.00	661	GSM 1900	GPRS	26.42	8	Back	3	1:2.76	0.551	28.56	26.52
1880.00	661	GSM 1900	GPRS	26.42	6	Front	3	1:2.76	0.533	28.70	
1880.00	661	GSM 1900	GPRS	26.42	11	Bottom	3	1:2.76	0.880	26.52	
1880.00	661	GSM 1900	GPRS	26.42	0	Right	3	1:2.76	0.368	30.31	
1880.00	661	GSM 1900	GPRS	26.42	0	Left	3	1:2.76	0.201	32.94	
826.40	4132	UMTS 850	RMC	24.71	8	Back	N/A	1:1	0.455	32.11	32.11
826.40	4132	UMTS 850	RMC	24.71	6	Front	N/A	1:1	0.444	32.22	
826.40	4132	UMTS 850	RMC	24.71	11	Bottom	N/A	1:1	0.157	36.73	
826.40	4132	UMTS 850	RMC	24.71	0	Right	N/A	1:1	0.266	34.44	
826.40	4132	UMTS 850	RMC	24.71	0	Left	N/A	1:1	0.259	34.56	
1732.40	1412	UMTS 1750	RMC	23.44	8	Back	N/A	1:1	1.130	26.89	26.21
1732.40	1412	UMTS 1750	RMC	23.44	6	Front	N/A	1:1	1.320	26.21	
1732.40	1412	UMTS 1750	RMC	23.44	11	Bottom	N/A	1:1	1.240	26.49	
1732.40	1412	UMTS 1750	RMC	23.44	0	Right	N/A	1:1	0.576	29.82	
1732.40	1412	UMTS 1750	RMC	23.44	0	Left	N/A	1:1	0.313	32.46	
1880.00	9400	UMTS 1900	RMC	23.39	8	Back	N/A	1:1	0.867	27.99	26.26
1880.00	9400	UMTS 1900	RMC	23.39	6	Front	N/A	1:1	0.952	27.58	
1880.00	9400	UMTS 1900	RMC	23.39	11	Bottom	N/A	1:1	1.290	26.26	
1880.00	9400	UMTS 1900	RMC	23.39	0	Right	N/A	1:1	0.557	29.91	
1880.00	9400	UMTS 1900	RMC	23.39	0	Left	N/A	1:1	0.309	32.47	

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: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-13
DSI = 1 P_{Limit} Calculations – 2G/3G Phablet SAR

MEASUREMENT RESULTS												
FREQUENCY		Mode/Band	Service	Conducted Power [dBm]	Spacing (mm)	Side	# of GPRS Slots	Duty Cycle	SAR (10g)		PLimit [dBm]	Minimum PLimit [dBm]
MHz	Ch.								(W/kg)	[dBm]		
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Back	N/A	1:1	1.750	26.70	26.70	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Front	N/A	1:1	1.710	26.80		
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Bottom	N/A	1:1	1.150	28.52		
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Right	N/A	1:1	0.309	34.23		
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	25.15	0	Left	N/A	1:1	0.292	34.48		
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Back	N/A	1:1	1.620	26.75	26.75	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Front	N/A	1:1	1.560	26.92		
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Bottom	N/A	1:1	0.849	29.56		
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Right	N/A	1:1	0.293	34.18		
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	24.87	0	Left	N/A	1:1	0.272	34.50		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.12	0	Back	N/A	1:1	1.140	22.53	19.97	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.12	0	Front	N/A	1:1	1.310	21.93		
1851.25	25	PCS CDMA	EVDO Rev. 0	19.03	0	Bottom	N/A	1:1	1.860	20.31		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.12	0	Bottom	N/A	1:1	1.920	20.27		
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.15	0	Bottom	N/A	1:1	2.070	19.97		
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	0	Right	N/A	1:1	0.631	29.64		
1880.00	600	PCS CDMA	EVDO Rev. 0	23.66	0	Left	N/A	1:1	0.386	31.77		
836.60	190	GSM 850	GPRS	29.57	0	Back	3	1:2.76	1.160	28.47	28.40	
836.60	190	GSM 850	GPRS	29.57	0	Front	3	1:2.76	1.180	28.40		
836.60	190	GSM 850	GPRS	29.57	0	Bottom	3	1:2.76	0.516	31.99		
836.60	190	GSM 850	GPRS	29.57	0	Right	3	1:2.76	0.170	36.81		
836.60	190	GSM 850	GPRS	29.57	0	Left	3	1:2.76	0.180	36.57		
1880.00	661	GSM 1900	GPRS	21.99	0	Back	4	1:2.076	1.030	22.66	21.07	
1880.00	661	GSM 1900	GPRS	21.99	0	Front	4	1:2.076	0.863	23.43		
1850.20	512	GSM 1900	GPRS	21.79	0	Bottom	4	1:2.076	1.130	22.06		
1880.00	661	GSM 1900	GPRS	21.99	0	Bottom	4	1:2.076	1.370	21.42		
1909.80	810	GSM 1900	GPRS	21.88	0	Bottom	4	1:2.076	1.450	21.07		
1880.00	661	GSM 1900	GPRS	26.42	0	Right	3	1:2.76	0.368	30.31		
1880.00	661	GSM 1900	GPRS	26.42	0	Left	3	1:2.76	0.201	32.94		
826.40	4132	UMTS 850	RMC	24.71	0	Back	N/A	1:1	1.520	26.87	26.87	
826.40	4132	UMTS 850	RMC	24.71	0	Front	N/A	1:1	1.470	27.02		
826.40	4132	UMTS 850	RMC	24.71	0	Bottom	N/A	1:1	0.781	29.76		
826.40	4132	UMTS 850	RMC	24.71	0	Right	N/A	1:1	0.266	34.44		
826.40	4132	UMTS 850	RMC	24.71	0	Left	N/A	1:1	0.259	34.56		
1712.40	1312	UMTS 1750	RMC	19.30	0	Back	N/A	1:1	1.790	20.75	19.41	
1732.40	1412	UMTS 1750	RMC	19.24	0	Back	N/A	1:1	1.740	20.81		
1752.60	1513	UMTS 1750	RMC	19.27	0	Back	N/A	1:1	1.680	21.00		
1732.40	1412	UMTS 1750	RMC	19.24	0	Front	N/A	1:1	1.600	21.18		
1712.40	1312	UMTS 1750	RMC	19.30	0	Bottom	N/A	1:1	2.440	19.41		
1732.40	1412	UMTS 1750	RMC	19.24	0	Bottom	N/A	1:1	2.340	19.53		
1752.60	1513	UMTS 1750	RMC	19.27	0	Bottom	N/A	1:1	2.270	19.69		
1732.40	1412	UMTS 1750	RMC	23.44	0	Right	N/A	1:1	0.576	29.82		
1732.40	1412	UMTS 1750	RMC	23.44	0	Left	N/A	1:1	0.313	32.46		
1880.00	9400	UMTS 1900	RMC	18.76	0	Back	N/A	1:1	1.070	22.45	19.55	
1880.00	9400	UMTS 1900	RMC	18.76	0	Front	N/A	1:1	0.916	23.12		
1852.40	9262	UMTS 1900	RMC	18.71	0	Bottom	N/A	1:1	1.910	19.88		
1880.00	9400	UMTS 1900	RMC	18.76	0	Bottom	N/A	1:1	1.970	19.79		
1907.60	9538	UMTS 1900	RMC	18.85	0	Bottom	N/A	1:1	2.130	19.55		
1880.00	9400	UMTS 1900	RMC	23.39	0	Right	N/A	1:1	0.557	29.91		
1880.00	9400	UMTS 1900	RMC	23.39	0	Left	N/A	1:1	0.309	32.47		

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: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-14
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.												(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	24.96	0	QPSK	1	0	8	Back	1:1	0.250	34.96	34.96
680.50	133297	Mid	LTE Band 71	20	24.96	0	QPSK	1	0	6	Front	1:1	0.245	35.05	
680.50	133297	Mid	LTE Band 71	20	24.96	0	QPSK	1	0	11	Bottom	1:1	0.058	41.31	
680.50	133297	Mid	LTE Band 71	20	24.96	0	QPSK	1	0	0	Right	1:1	0.100	38.94	
680.50	133297	Mid	LTE Band 71	20	24.96	0	QPSK	1	0	0	Left	1:1	0.139	37.51	
707.50	23095	Mid	LTE Band 12	10	25.13	0	QPSK	1	0	8	Back	1:1	0.244	35.24	35.24
707.50	23095	Mid	LTE Band 12	10	25.13	0	QPSK	1	0	6	Front	1:1	0.244	35.24	
707.50	23095	Mid	LTE Band 12	10	25.13	0	QPSK	1	0	11	Bottom	1:1	0.058	41.48	
707.50	23095	Mid	LTE Band 12	10	25.13	0	QPSK	1	0	0	Right	1:1	0.095	39.33	
707.50	23095	Mid	LTE Band 12	10	25.13	0	QPSK	1	0	0	Left	1:1	0.146	37.47	
782.00	23230	Mid	LTE Band 13	10	25.11	0	QPSK	1	0	8	Back	1:1	0.395	33.12	33.00
782.00	23230	Mid	LTE Band 13	10	25.11	0	QPSK	1	0	6	Front	1:1	0.406	33.00	
782.00	23230	Mid	LTE Band 13	10	25.11	0	QPSK	1	0	11	Bottom	1:1	0.108	38.76	
782.00	23230	Mid	LTE Band 13	10	25.11	0	QPSK	1	0	0	Right	1:1	0.238	35.32	
782.00	23230	Mid	LTE Band 13	10	25.11	0	QPSK	1	0	0	Left	1:1	0.247	35.16	
793.00	23330	Mid	LTE Band 14	10	24.97	0	QPSK	1	0	8	Back	1:1	0.415	32.77	32.69
793.00	23330	Mid	LTE Band 14	10	24.97	0	QPSK	1	0	6	Front	1:1	0.423	32.69	
793.00	23330	Mid	LTE Band 14	10	24.97	0	QPSK	1	0	11	Bottom	1:1	0.113	38.42	
793.00	23330	Mid	LTE Band 14	10	24.97	0	QPSK	1	0	0	Right	1:1	0.228	35.37	
793.00	23330	Mid	LTE Band 14	10	24.97	0	QPSK	1	0	0	Left	1:1	0.247	35.02	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	8	Back	1:1	0.460	32.33	32.33
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	6	Front	1:1	0.456	32.37	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	11	Bottom	1:1	0.132	37.75	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Right	1:1	0.309	34.06	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Left	1:1	0.262	34.78	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	8	Back	1:1	0.440	32.58	32.39
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	6	Front	1:1	0.460	32.39	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	11	Bottom	1:1	0.139	37.59	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Right	1:1	0.278	34.58	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Left	1:1	0.275	34.63	

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: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-15
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]	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.12	0	QPSK	1	99	8	Back	1:1	0.898	27.57	26.84
1770.00	132572	High	LTE Band 66 (AWS)	20	22.23	1	QPSK	50	25	8	Back	1:1	0.751	27.45	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.12	0	QPSK	1	99	6	Front	1:1	1.030	26.97	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.23	1	QPSK	50	25	6	Front	1:1	0.864	26.84	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.12	0	QPSK	1	99	11	Bottom	1:1	0.902	27.55	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.23	1	QPSK	50	25	11	Bottom	1:1	0.754	27.44	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.12	0	QPSK	1	99	0	Right	1:1	0.476	30.32	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.23	1	QPSK	50	25	0	Right	1:1	0.397	30.22	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.12	0	QPSK	1	99	0	Left	1:1	0.266	32.85	
1770.00	132572	High	LTE Band 66 (AWS)	20	22.23	1	QPSK	50	25	0	Left	1:1	0.224	32.71	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.26	0	QPSK	1	50	8	Back	1:1	0.907	27.66	26.22
1905.00	26590	High	LTE Band 25 (PCS)	20	22.41	1	QPSK	50	50	8	Back	1:1	0.766	27.55	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.26	0	QPSK	1	50	6	Front	1:1	1.030	27.11	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.41	1	QPSK	50	50	6	Front	1:1	0.855	27.07	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.26	0	QPSK	1	50	11	Bottom	1:1	1.220	26.38	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.41	1	QPSK	50	50	11	Bottom	1:1	1.040	26.22	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.26	0	QPSK	1	50	0	Right	1:1	0.566	29.71	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.41	1	QPSK	50	50	0	Right	1:1	0.456	29.80	
1905.00	26590	High	LTE Band 25 (PCS)	20	23.26	0	QPSK	1	50	0	Left	1:1	0.295	32.54	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.41	1	QPSK	50	50	0	Left	1:1	0.256	32.31	
2310.00	27710	Mid	LTE Band 30	10	23.79	0	QPSK	1	0	8	Back	1:1	0.634	29.75	27.32
2310.00	27710	Mid	LTE Band 30	10	22.89	1	QPSK	25	12	8	Back	1:1	0.509	29.80	
2310.00	27710	Mid	LTE Band 30	10	23.79	0	QPSK	1	0	6	Front	1:1	0.843	28.51	
2310.00	27710	Mid	LTE Band 30	10	22.89	1	QPSK	25	12	6	Front	1:1	0.674	28.58	
2310.00	27710	Mid	LTE Band 30	10	23.79	0	QPSK	1	0	11	Bottom	1:1	1.110	27.32	
2310.00	27710	Mid	LTE Band 30	10	22.89	1	QPSK	25	12	11	Bottom	1:1	0.899	27.33	
2310.00	27710	Mid	LTE Band 30	10	23.79	0	QPSK	1	0	0	Right	1:1	0.582	30.12	
2310.00	27710	Mid	LTE Band 30	10	22.89	1	QPSK	25	12	0	Right	1:1	0.465	30.19	
21350.00	21350	High	LTE Band 7	20	23.61	0	QPSK	1	0	8	Back	1:1	0.653	29.44	27.72
21350.00	21350	High	LTE Band 7	20	22.65	1	QPSK	50	0	8	Back	1:1	0.508	29.57	
21350.00	21350	High	LTE Band 7	20	23.61	0	QPSK	1	0	6	Front	1:1	0.588	29.90	
21350.00	21350	High	LTE Band 7	20	22.65	1	QPSK	50	0	6	Front	1:1	0.485	29.77	
21350.00	21350	High	LTE Band 7	20	23.61	0	QPSK	1	0	11	Bottom	1:1	0.731	28.95	
21350.00	21350	High	LTE Band 7	20	22.65	1	QPSK	50	0	11	Bottom	1:1	0.593	28.90	
21350.00	21350	High	LTE Band 7	20	23.61	0	QPSK	1	0	0	Right	1:1	0.922	27.94	
21350.00	21350	High	LTE Band 7	20	22.65	1	QPSK	50	0	0	Right	1:1	0.778	27.72	
3560.00	55340	Low	LTE Band 48	20	23.14	0	QPSK	1	0	0	Back	1:1.58	1.420	23.61	21.44
3560.00	55340	Low	LTE Band 48	20	23.14	0	QPSK	1	0	0	Front	1:1.58	2.120	21.87	
3560.00	55340	Low	LTE Band 48	20	23.14	0	QPSK	1	0	0	Top	1:1.58	2.069	21.98	
3560.00	55340	Low	LTE Band 48	20	23.14	0	QPSK	1	0	0	Left	1:1.58	2.340	21.44	
2506.00	39750	Low	LTE Band 41	20	24.51	0	QPSK	1	99	8	Back	1:1.58	0.457	29.90	27.56
2506.00	39750	Low	LTE Band 41	20	23.60	1	QPSK	50	25	8	Back	1:1.58	0.384	29.75	
2506.00	39750	Low	LTE Band 41	20	24.51	0	QPSK	1	99	6	Front	1:1.58	0.456	29.91	
2506.00	39750	Low	LTE Band 41	20	23.60	1	QPSK	50	25	6	Front	1:1.58	0.293	30.92	
2506.00	39750	Low	LTE Band 41	20	24.51	0	QPSK	1	99	11	Bottom	1:1.58	0.516	29.38	
2506.00	39750	Low	LTE Band 41	20	23.60	1	QPSK	50	25	11	Bottom	1:1.58	0.419	29.37	
2506.00	39750	Low	LTE Band 41	20	24.51	0	QPSK	1	99	0	Right	1:1.58	0.747	27.77	
2506.00	39750	Low	LTE Band 41	20	23.60	1	QPSK	50	25	0	Right	1:1.58	0.636	27.56	

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: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 05/25/20 – 07/10/20	DUT Type: Portable Handset			APPENDIX A: Page 15 of 19

Table A-16
DSI = 1 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]
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	0	Back	1:1	1.410	27.45	27.45
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	0	Front	1:1	1.300	27.80	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	0	Bottom	1:1	0.824	29.78	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	0	Right	1:1	0.100	38.94	
680.50	133297	Md	LTE Band 71	20	24.96	0	QPSK	1	0	0	Left	1:1	0.139	37.51	
707.50	23095	Md	LTE Band 12	10	25.13	0	QPSK	1	0	0	Back	1:1	1.430	27.56	27.56
707.50	23095	Md	LTE Band 12	10	25.13	0	QPSK	1	0	0	Front	1:1	1.420	27.59	
707.50	23095	Md	LTE Band 12	10	25.13	0	QPSK	1	0	0	Bottom	1:1	0.855	29.79	
707.50	23095	Md	LTE Band 12	10	25.13	0	QPSK	1	0	0	Right	1:1	0.095	39.33	
707.50	23095	Md	LTE Band 12	10	25.13	0	QPSK	1	0	0	Left	1:1	0.146	37.47	
782.00	23230	Md	LTE Band 13	10	25.11	0	QPSK	1	0	0	Back	1:1	0.869	29.70	28.19
782.00	23230	Md	LTE Band 13	10	25.11	0	QPSK	1	0	0	Front	1:1	1.230	28.19	
782.00	23230	Md	LTE Band 13	10	25.11	0	QPSK	1	0	0	Bottom	1:1	0.463	32.43	
782.00	23230	Md	LTE Band 13	10	25.11	0	QPSK	1	0	0	Right	1:1	0.238	35.32	
782.00	23230	Md	LTE Band 13	10	25.11	0	QPSK	1	0	0	Left	1:1	0.247	35.16	
793.00	23330	Md	LTE Band 14	10	24.97	0	QPSK	1	0	0	Back	1:1	1.010	28.91	28.38
793.00	23330	Md	LTE Band 14	10	24.97	0	QPSK	1	0	0	Front	1:1	1.140	28.38	
793.00	23330	Md	LTE Band 14	10	24.97	0	QPSK	1	0	0	Bottom	1:1	0.430	32.61	
793.00	23330	Md	LTE Band 14	10	24.97	0	QPSK	1	0	0	Right	1:1	0.228	35.37	
793.00	23330	Md	LTE Band 14	10	24.97	0	QPSK	1	0	0	Left	1:1	0.247	35.02	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Back	1:1	1.600	26.92	26.92
831.50	26865	Md	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Front	1:1	1.590	26.95	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Bottom	1:1	0.785	30.01	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Right	1:1	0.309	34.06	
831.50	26865	Md	LTE Band 26 (Cell)	15	24.98	0	QPSK	1	0	0	Left	1:1	0.262	34.78	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Back	1:1	1.540	27.14	27.14
836.50	20525	Md	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Front	1:1	1.420	27.50	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Bottom	1:1	0.754	30.25	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Right	1:1	0.278	34.58	
836.50	20525	Md	LTE Band 5 (Cell)	10	25.04	0	QPSK	1	0	0	Left	1:1	0.275	34.63	

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: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 05/25/20 – 07/10/20	DUT Type: Portable Handset	APPENDIX A: Page 16 of 19		

Table A-17
DSI = 1 P_{Limit} Calculations – 4G Phablet SAR

MEASUREMENT RESULTS														
FREQ (MHz)	Mode	Bandwidth (MHz)	Conducted Power (dBm)	Modulation	RB Size	RB Offset	Spacing (MHz)	Site	Dir Cylc	SAR (W/kg)		Minimum Point		
										(W/kg)	(dBm)			
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.16	0	QPSK	1	50	0	Back	1.1	1.260	22.07
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.24	0	QPSK	50	25	0	Back	1.1	1.360	21.88
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.16	0	QPSK	1	50	0	Front	1.1	1.260	22.07
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.24	0	QPSK	50	25	0	Front	1.1	1.360	21.82
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.16	0	QPSK	1	50	0	Bottom	1.1	1.170	19.77
1740.00	132322	Mid	LTE Band 6E (AWS)	20	18.90	0	QPSK	1	50	0	Bottom	1.1	1.130	19.60
1770.00	132572	High	LTE Band 6E (AWS)	20	19.09	0	QPSK	1	99	0	Bottom	1.1	2.050	19.95
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.24	0	QPSK	50	25	0	Bottom	1.1	2.140	19.92
1740.00	132322	Mid	LTE Band 6E (AWS)	20	19.15	0	QPSK	50	25	0	Bottom	1.1	2.040	20.03
1770.00	132572	High	LTE Band 6E (AWS)	20	19.09	0	QPSK	50	0	0	Bottom	1.1	2.190	19.88
1720.00	132072	Low	LTE Band 6E (AWS)	20	19.15	0	QPSK	100	0	0	Bottom	1.1	2.190	19.72
1770.00	132572	High	LTE Band 6E (AWS)	20	23.12	0	QPSK	1	99	0	Right	1.1	0.478	30.32
1770.00	132572	High	LTE Band 6E (AWS)	20	22.23	1	QPSK	50	25	0	Right	1.1	0.397	30.22
1770.00	132572	High	LTE Band 6E (AWS)	20	23.12	0	QPSK	1	99	0	Left	1.1	0.268	32.85
1770.00	132572	High	LTE Band 6E (AWS)	20	22.23	1	QPSK	50	25	0	Left	1.1	0.224	32.71
1955.00	26590	High	LTE Band 20 (PCS)	20	18.73	0	QPSK	1	0	0	Back	1.1	1.070	22.67
1955.00	26590	High	LTE Band 20 (PCS)	20	18.94	0	QPSK	50	25	0	Back	1.1	1.110	22.47
1955.00	26590	High	LTE Band 20 (PCS)	20	18.73	0	QPSK	1	0	0	Front	1.1	1.050	22.50
1955.00	26590	High	LTE Band 20 (PCS)	20	18.94	0	QPSK	50	25	0	Front	1.1	1.160	22.27
1955.00	26590	High	LTE Band 20 (PCS)	20	18.73	0	QPSK	1	0	0	Bottom	1.1	1.700	20.40
1880.00	28140	Low	LTE Band 20 (PCS)	20	18.77	0	QPSK	50	0	0	Bottom	1.1	1.810	20.17
1882.50	28385	Mid	LTE Band 20 (PCS)	20	18.79	0	QPSK	50	25	0	Bottom	1.1	1.740	20.38
1955.00	26590	High	LTE Band 20 (PCS)	20	18.94	0	QPSK	50	25	0	Bottom	1.1	1.800	20.37
1955.00	26590	High	LTE Band 20 (PCS)	20	23.26	0	QPSK	1	50	0	Right	1.1	0.558	29.71
1955.00	26590	High	LTE Band 20 (PCS)	20	22.41	1	QPSK	50	50	0	Right	1.1	0.458	29.80
1955.00	26590	High	LTE Band 20 (PCS)	20	23.26	0	QPSK	1	50	0	Left	1.1	0.258	32.54
1955.00	26590	High	LTE Band 20 (PCS)	20	22.41	1	QPSK	50	50	0	Left	1.1	0.258	32.31
2310.00	27710	Mid	LTE Band 30	10	20.80	0	QPSK	1	0	0	Back	1.1	1.220	23.72
2310.00	27710	Mid	LTE Band 30	10	20.74	0	QPSK	25	12	0	Back	1.1	1.250	23.75
2310.00	27710	Mid	LTE Band 30	10	20.80	0	QPSK	1	0	0	Front	1.1	0.910	24.89
2310.00	27710	Mid	LTE Band 30	10	20.74	0	QPSK	25	12	0	Front	1.1	0.918	25.10
2310.00	27710	Mid	LTE Band 30	10	20.80	0	QPSK	1	0	0	Bottom	1.1	1.100	24.17
2310.00	27710	Mid	LTE Band 30	10	20.74	0	QPSK	25	12	0	Bottom	1.1	1.130	24.19
2310.00	27710	Mid	LTE Band 30	10	23.79	0	QPSK	1	0	0	Right	1.1	0.582	30.12
2310.00	27710	Mid	LTE Band 30	10	22.89	1	QPSK	25	12	0	Right	1.1	0.485	30.19
2130.00	21390	High	LTE Band 7	20	21.18	0	QPSK	1	0	0	Back	1.1	1.695	22.89
2130.00	21390	High	LTE Band 7	20	21.23	0	QPSK	50	0	0	Back	1.1	1.725	22.85
2130.00	21390	High	LTE Band 7	20	21.18	0	QPSK	1	0	0	Front	1.1	1.585	23.17
2130.00	21390	High	LTE Band 7	20	21.23	0	QPSK	50	0	0	Front	1.1	1.595	23.20
2010.00	20890	Low	LTE Band 7	20	20.88	0	QPSK	1	0	0	Bottom	1.1	1.975	21.89
2030.00	21100	Mid	LTE Band 7	20	20.82	0	QPSK	1	99	0	Bottom	1.1	1.925	22.24
2130.00	21390	High	LTE Band 7	20	21.18	0	QPSK	1	0	0	Bottom	1.1	1.845	22.51
2130.00	21390	High	LTE Band 7	20	21.23	0	QPSK	50	0	0	Bottom	1.1	1.865	22.51
2130.00	21390	High	LTE Band 7	20	21.09	0	QPSK	100	0	0	Bottom	1.1	1.865	22.37
2130.00	21390	High	LTE Band 7	20	23.61	0	QPSK	1	0	0	Right	1.1	0.922	27.84
2130.00	21390	High	LTE Band 7	20	22.65	1	QPSK	50	0	0	Right	1.1	0.775	27.72
3580.00	35340	Low	LTE Band 4E	25	23.14	0	QPSK	1	0	0	Back	11.58	1.620	23.67
3580.00	35340	Low	LTE Band 4E	25	23.14	0	QPSK	1	0	0	Front	11.58	2.130	21.87
3580.00	35340	Low	LTE Band 4E	25	23.14	0	QPSK	1	0	0	Top	11.58	2.085	21.98
3580.00	35340	Low	LTE Band 4E	25	23.14	0	QPSK	1	0	0	Left	11.58	2.340	21.44
2906.00	39750	Low	LTE Band 41	20	22.68	0	QPSK	1	0	0	Back	11.58	1.920	22.86
2540.50	40185	Low-Mid	LTE Band 41	20	22.44	0	QPSK	1	0	0	Back	11.58	1.220	23.87
2950.00	40620	Mid	LTE Band 41	20	22.10	0	QPSK	1	50	0	Back	11.58	1.070	24.05
2636.50	41055	Mid-High	LTE Band 41	20	22.13	0	QPSK	1	50	0	Back	11.58	1.120	23.83
2680.00	41490	High	LTE Band 41	20	22.35	0	QPSK	1	50	0	Back	11.58	1.285	23.27
2938.00	39750	Low	LTE Band 41	20	22.64	0	QPSK	50	25	0	Back	11.58	1.970	22.84
3540.50	40185	Low-Mid	LTE Band 41	20	22.21	0	QPSK	50	25	0	Back	11.58	1.270	23.27
2930.00	40620	Mid	LTE Band 41	20	22.10	0	QPSK	50	25	0	Back	11.58	1.060	23.94
2636.50	41055	Mid-High	LTE Band 41	20	22.23	0	QPSK	50	25	0	Back	11.58	1.120	23.73
2680.00	41490	High	LTE Band 41	20	22.51	0	QPSK	50	50	0	Back	11.58	1.360	23.17
2938.00	39750	Low	LTE Band 41	20	22.56	0	QPSK	100	0	0	Back	11.58	1.480	22.85
2938.00	39750	Low	LTE Band 41	20	22.68	0	QPSK	1	0	0	Front	11.58	1.400	23.21
2540.50	40185	Low-Mid	LTE Band 41	20	22.44	0	QPSK	1	0	0	Front	11.58	1.190	23.89
2950.00	40620	Mid	LTE Band 41	20	22.10	0	QPSK	1	50	0	Front	11.58	1.105	23.89
2636.50	41055	Mid-High	LTE Band 41	20	22.13	0	QPSK	1	50	0	Front	11.58	1.070	23.76
2680.00	41490	High	LTE Band 41	20	22.29	0	QPSK	1	50	0	Front	11.58	1.770	21.98
2938.00	39750	Low	LTE Band 41	20	22.64	0	QPSK	50	25	0	Front	11.58	1.620	23.17
2540.50	40185	Low-Mid	LTE Band 41	20	22.21	0	QPSK	50	25	0	Front	11.58	1.220	23.44
2930.00	40620	Mid	LTE Band 41	20	22.10	0	QPSK	50	25	0	Front	11.58	1.200	23.30
2636.50	41055	Mid-High	LTE Band 41	20	22.23	0	QPSK	50	25	0	Front	11.58	1.070	22.16
2680.00	41490	High	LTE Band 41	20	22.51	0	QPSK	50	50	0	Front	11.58	1.880	21.78
2938.00	39750	Low	LTE Band 41	20	22.56	0	QPSK	100	0	0	Front	11.58	1.360	23.12
2938.00	39750	Low	LTE Band 41	20	22.68	0	QPSK	1	0	0	Bottom	11.58	1.690	22.39
2540.50	40185	Low-Mid	LTE Band 41	20	22.44	0	QPSK	1	0	0	Bottom	11.58	1.420	23.91
2950.00	40620	Mid	LTE Band 41	20	22.10	0	QPSK	1	50	0	Bottom	11.58	1.370	22.73
2636.50	41055	Mid-High	LTE Band 41	20	22.13	0	QPSK	1	50	0	Bottom	11.58	1.020	21.57
2680.00	41490	High	LTE Band 41	20	22.35	0	QPSK	1	50	0	Bottom	11.58	2.240	20.65
2938.00	39750	Low	LTE Band 41	20	22.64	0	QPSK	50	25	0	Bottom	11.58	1.770	22.20
2938.00	40185	Low-Mid	LTE Band 41	20	22.21	0	QPSK	50	25	0	Bottom	11.58	1.690	22.54
2930.00	40620	Mid	LTE Band 41	20	22.10	0	QPSK	50	25	0	Bottom	11.58	1.430	22.54
2636.50	41055	Mid-High	LTE Band 41	20	22.23	0	QPSK	50	25	0	Bottom	11.58	1.070	21.51
2680.00	41490	High	LTE Band 41	20	22.51	0	QPSK	50	50	0	Bottom	11.58	2.260	20.98
2938.00	39750	Low	LTE Band 41	20	22.56	0	QPSK	100	0	0	Bottom	11.58	1.720	22.20
2938.00	39750	Low	LTE Band 41	20	23.61	0	QPSK	1	99	0	Right	11.58	0.747	27.77
2938.00	39750	Low	LTE Band 41	20	23.60	1	QPSK	50	25	0	Right	11.58	0.638	27.58

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: A3LSMN981U	 PART 0 SAR CHAR REPORT	 Approved by: Quality Manager
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Table A-18
DSI = 0 P_{Limit} Calculations – 5G 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]	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	8	Back	1:1	0.193	35.66	35.66
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	6	Front	1:1	0.186	35.82	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	11	Bottom	1:1	0.051	41.44	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.072	39.95	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.125	37.55	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	8	Back	1:1	0.153	36.70	36.43
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	6	Front	1:1	0.163	36.43	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	11	Bottom	1:1	0.038	42.75	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Right	1:1	0.055	41.15	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Left	1:1	0.089	39.06	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	8	Back	1:1	0.434	32.70	32.70
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	6	Front	1:1	0.407	32.98	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	11	Bottom	1:1	0.120	38.29	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.254	35.03	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.219	35.67	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	8	Back	1:1	0.920	28.46	26.86
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	8	Back	1:1	0.966	28.22	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	6	Front	1:1	1.290	26.99	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	6	Front	1:1	1.320	26.86	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	11	Bottom	1:1	1.060	27.85	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	11	Bottom	1:1	1.140	27.50	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.574	30.51	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.585	30.40	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.235	34.39	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.275	33.68	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	8	Back	1:1	0.994	28.01	26.47
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	8	Back	1:1	1.000	27.77	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	6	Front	1:1	1.010	27.94	
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	6	Front	1:1	1.030	27.64	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	11	Bottom	1:1	1.320	26.77	
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	11	Bottom	1:1	1.350	26.47	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.611	30.12	
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.596	30.02	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.336	32.72	
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.326	32.64	
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Back	1.4	0.102	32.19	24.80
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Front	1.4	0.128	31.21	
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Top	1.4	0.560	24.80	
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1.4	0.133	31.04	

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: A3LSMN981U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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Table A-19
DSI = 1 P_{Limit} Calculations – 5G 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]	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	1.290	27.41	27.41
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.200	27.73	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	0.864	29.15	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.072	39.95	
680.50	136100	Mid	NR Band n71	20	24.54	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.125	37.55	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Back	1:1	1.030	28.42	28.14
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Front	1:1	1.100	28.14	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Bottom	1:1	0.631	30.55	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Right	1:1	0.055	41.15	
707.50	141500	Mid	NR Band n12	15	24.57	0.0	DFT-s-OFDM QPSK	36	22	0	Left	1:1	0.089	39.06	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	1.350	27.78	27.78
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.250	28.11	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	0.578	31.46	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.254	35.03	
836.50	167300	Mid	NR Band n5	20	25.10	0.0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.219	35.67	
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	1.660	22.03	19.77
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM QPSK	50	28	0	Back	1:1	1.680	21.93	
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.550	22.33	
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM QPSK	50	28	0	Front	1:1	1.560	22.25	
1720.00	344000	Low	NR Band n66	20	20.25	0.0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	2.610	20.06	
1745.00	349000	Mid	NR Band n66	20	20.24	0.0	DFT-s-OFDM QPSK	1	1	0	Bottom	1:1	2.580	20.10	
1770.00	354000	High	NR Band n66	20	20.16	0.0	DFT-s-OFDM QPSK	1	104	0	Bottom	1:1	2.460	20.23	
1720.00	344000	Low	NR Band n66	20	20.20	0.0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.610	20.01	
1745.00	349000	Mid	NR Band n66	20	20.19	0.0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.570	20.07	
1770.00	354000	High	NR Band n66	20	20.08	0.0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	2.510	20.06	
1720.00	344000	Low	NR Band n66	20	20.12	0.0	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	2.710	19.77	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.574	30.51	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.585	30.40	
1720.00	344000	Low	NR Band n66	20	24.12	0.0	DFT-s-OFDM QPSK	1	1	0	Left	1:1	0.235	34.39	
1720.00	344000	Low	NR Band n66	20	24.09	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.275	33.68	
1770.00	354000	High	NR Band n66	20	20.08	0.0	CP-OFDM QPSK	1	1	0	Bottom	1:1	2.480	20.11	
1882.50	376500	Mid	NR Band n25	20	19.11	0.0	DFT-s-OFDM QPSK	1	53	0	Back	1:1	1.310	21.92	
1882.50	376500	Mid	NR Band n25	20	18.99	0.0	DFT-s-OFDM QPSK	50	0	0	Back	1:1	1.320	21.76	
1882.50	376500	Mid	NR Band n25	20	19.11	0.0	DFT-s-OFDM QPSK	1	53	0	Front	1:1	1.110	22.64	
1882.50	376500	Mid	NR Band n25	20	18.99	0.0	DFT-s-OFDM QPSK	50	0	0	Front	1:1	1.110	22.52	
1860.00	372000	Low	NR Band n25	20	18.94	0.0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.910	20.11	
1882.50	376500	Mid	NR Band n25	20	19.11	0.0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.920	20.26	
1905.00	381000	High	NR Band n25	20	18.88	0.0	DFT-s-OFDM QPSK	1	53	0	Bottom	1:1	1.870	20.14	
1860.00	372000	Low	NR Band n25	20	18.84	0.0	DFT-s-OFDM QPSK	50	28	0	Bottom	1:1	1.950	19.92	
1882.50	376500	Mid	NR Band n25	20	18.99	0.0	DFT-s-OFDM QPSK	50	0	0	Bottom	1:1	2.030	19.89	
1905.00	381000	High	NR Band n25	20	18.89	0.0	DFT-s-OFDM QPSK	50	0	0	Bottom	1:1	1.930	20.01	
1882.50	376500	Mid	NR Band n25	20	18.98	0.0	DFT-s-OFDM QPSK	100	0	0	Bottom	1:1	1.960	20.04	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	0.611	30.12	
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	0.596	30.02	
1905.00	381000	High	NR Band n25	20	24.00	0.0	DFT-s-OFDM QPSK	1	53	0	Left	1:1	0.336	32.72	
1905.00	381000	High	NR Band n25	20	23.79	0.0	DFT-s-OFDM QPSK	50	28	0	Left	1:1	0.326	32.64	
1882.50	376500	Mid	NR Band n25	20	19.05	0.0	CP-OFDM QPSK	1	1	0	Bottom	1:1	1.820	20.43	
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.102	32.19	24.80
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.128	31.21	
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Top	1:1	0.560	24.80	
2592.99	518598	Mid	NR Band n41	100	24.32	0.0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	0.133	31.04	

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: A3LSMN981U	 PART 0 SAR CHAR REPORT	 Approved by: Quality Manager
Test Dates: 05/25/20 – 07/10/20	DUT Type: Portable Handset	APPENDIX A: Page 19 of 19