

TEST REPORT

FCC SAR Part 0 Test for SM-A376U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2512-FC005-R1

DATE OF ISSUE
December 23, 2025

Tested by
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TEST REPORT

SAR PART 0 Test
for certification

REPORT NO.

HCT-SR-2512-FC005-R1

DATE OF ISSUE

Dec. 23, 2025

FCC ID

A3LSMA376U

Applicant

SAMSUNG Electronics Co., Ltd

129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea

Product Name

Mobile Phone

Model Name

SM-A376U

Additional Model Name

SM-A376U1, SM-S376V

Date of Test

Nov.05, 2025~ Dec.22, 2025

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC Rule Part(s)

CFR § 2.1093

Test Results

PASS (SAR Limit : 1.6 W/kg)

Refer to the clause 3.2 Attestation of test result

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	Dec 15, 2025	Initial Release
1	Dec. 23, 2025	Revised UMTS Band 5 RSI=1

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. Test Location

1.1 Test Laboratory

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Telephone	031-645-6300
Fax.	031-645-6401

1.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Korea	National Radio Research Agency (Designation No. KR0032)
	KOLAS (Testing No. KT197)

1.3 General Information of the EUT

Model Name	SM-A376U
Additional Model Name	SM-A376U1, SM-S376V
Equipment Type	Mobile Phone
FCC ID	A3LSMA376U
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

2. Device Under Test Description

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
GSM850	Voice / Data	824.2 MHz ~ 848.8 MHz
GSM1900	Voice / Data	1 850.2 MHz ~ 1 909.8 MHz
UMTS Band 2	Voice / Data	1 852.4 MHz ~ 1 907.6 MHz
UMTS Band 4	Voice / Data	1 712.4 MHz ~ 1 752.6 MHz
UMTS Band 5	Voice / Data	826.4 MHz ~ 846.6 MHz
LTE FDD Band 2 (PCS)	Voice / Data	1 850.7 MHz ~ 1 909.3 MHz
LTE FDD Band 4 (AWS)	Voice / Data	1 710.7 MHz ~ 1 754.3 MHz
LTE FDD Band 5 (Cell)	Voice / Data	824.7 MHz ~ 848.3 MHz
LTE FDD Band 7	Voice / Data	2 502.5 MHz ~ 2 567.5 MHz
LTE FDD Band 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE FDD Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE FDD Band 14	Voice / Data	790.5 MHz ~ 795.5 MHz
LTE FDD Band 25	Voice / Data	1 850.7 MHz ~ 1 914.3 MHz
LTE FDD Band 26	Voice / Data	814.7 MHz ~ 848.3 MHz
LTE FDD Band 30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
LTE TDD Band 38	Voice / Data	2 572.5 MHz ~ 2 617.5 MHz
LTE TDD Band 41	Voice / Data	2 498.5 MHz ~ 2 687.5 MHz
LTE TDD Band 48	Voice / Data	3 552.5 MHz ~ 3 697.5 MHz
LTE FDD Band 66 (AWS)	Voice / Data	1 710.7 MHz ~ 1 779.3 MHz
LTE FDD Band 71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR FDD Band n2 (PCS)	Voice / Data	1 852.5 MHz ~ 1 907.5 MHz
NR FDD Band n5	Voice / Data	826.5 MHz ~ 846.5 MHz
NR FDD Band n25 (PCS)	Voice / Data	1 852.5 MHz ~ 1 912.5 MHz
NR FDD Band n30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
NR TDD Band n41	Voice / Data	2 501.01 MHz ~ 2 685 MHz
NR TDD Band n48	Voice / Data	3 555 MHz ~ 3 695.01 MHz
NR FDD Band n66	Voice / Data	1 712.5 MHz ~ 1 777.5 MHz
NR FDD Band n70	Voice / Data	1 697.5 MHz ~ 1 707.5 MHz
NR FDD Band n71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR TDD Band n77	Voice / Data	3 705 MHz ~ 3 975 MHz
NR TDD Band n77 DoD	Voice / Data	3 445.01 MHz ~ 3 544.98 MHz
NR TDD Band n78	Voice / Data	3 705 MHz ~ 3 795 MHz
NR TDD Band n78 DoD	Voice / Data	3 455.01 MHz ~ 3 544.98 MHz
U-NII-1	Voice / Data	5 180 MHz ~ 5 240 MHz
U-NII-2A	Voice / Data	5 260 MHz ~ 5 320 MHz
U-NII-2C	Voice / Data	5 500 MHz ~ 5 720 MHz
U-NII-3	Voice / Data	5 745 MHz ~ 5 825 MHz
U-NII-4	Voice / Data	5 845 MHz ~ 5 885 MHz
2.4 GHz WLAN	Voice / Data	2 412 MHz ~ 2 462 MHz
Bluetooth / LE	Data	2 402 MHz ~ 2 480 MHz
NFC	Data	13.56 MHz
Device Description		
Device Serial Numbers	Mode	Serial Number
	GSM850, GSM1900, UMTS Band 2,4,5, NFC	YJN1836M, YJN1813M
	LTE Band 2,4,5,7,12,13,14,25,26,30,66,71	YJN1737M, YJN1815M
	NR Band n2,5,25,30,66,70,71	YJN1694M, YJN1732M
	LTE Band 41, 48	YJN1737M, YJN1815M
	NR Band n41, n48, n77, n77 SRS 2	YJN1694M, YJN1732M
	NR Band n48 SRS2, 3, 4, n77 SRS3, 4	YJN1737M, YJN1815M
	WLAN 2.4G, 5G, BT	YJN1733M, YJN1810M
The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.		

2.1 Time-Averaging for SAR

This WWAN/WLAN/BT Mode of DUT is equipped with an S.LSI chipset to which the Samsung S.LSI proprietary TAS (Time Average SAR) algorithm is applied.

This DUT is enabled with the Samsung S.LSI proprietary TAS (Time Average SAR) algorithm for WWAN/WLAN/BT Mode and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement

FCC RF exposure limit is based on time averaged RF exposure. The SAR regulatory specification is defined over certain measurement duration allowing for time-averaging. The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power to satisfy the performance of the system.

This feature performs time averaging SAR algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time.

The S.LSI TAS algorithms, implemented in WWAN and WLAN modes respectively, are independent and always comply with the FCC's RF exposure limit. Only the NFC mode of the device did not apply the time averaged SAR algorithm.

The Samsung S.LSI TAS algorithm allow the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit NV settings and maximum tune up output power Pmax configured for this DUT for various transmit conditions (Radio SAR indicator RSI for Head/Non-Head SAR of WWAN/WLAN/BT Mode).

The purpose of this report is to demonstrate that the DUT meets FCC SAR limits when transmitting in static transmission configurations at Plimit specified by manufacturer.

SAR Characterization confirms that Plimit in the 4G/5G/WLAN/WLAN/BT communication mode declared by the manufacturer satisfies SAR_Design_target.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in SAR report for WWAN/WLAN/BT. The validation of The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm and compliance under the time- varying transmission scenario for WWAN technologies are reported in A3LSMA376U_SAR Part 2 Report_Main report.

2.2 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub 6 NR/WLAN	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
	Pmax	Maximum tune up output power
	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties.
	SAR Char	Table containing Plimit for all technologies and bands

3. SAR MEASUREMENTS

3.1 SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) 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

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right)$$

SAR Mathematical Equation

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

$$SAR = \sigma E^2 / \rho$$

Where:

σ = conductivity of the tissue-simulant material (S/m)
 ρ = mass density of the tissue-simulant material (kg/m³)
 E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations 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.

3.2 SAR Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 (see table 3-1) & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 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 integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

Table 3-1

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

Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

4. SAR CHARACTERIZATION

4.1 RSI and SAR Determination

This device uses different Radio SAR Index (RSI) 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 RSI. 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 Radio SAR Index (RSI) conditions used in Table 4-1 represent different exposure scenarios.

Table 4-1 RSI and Corresponding Exposure Scenarios

Scenario		Description	SAR Test Cases
Head	RSI = 1	Device positioned next to head When RCV is activated for voice call	Head SAR per KDB Publication 648474 D04
Non – Head	RSI = 0 (Body)	Device is held with hand Device transmits in hotspot mode near body Device being used with a body-worn accessory Device being used with a Earjack	Phablet SAR per KDB Publication 648474 D04 Hotspot SAR per KDB Publication 941225 D06 Body-worn SAR per KDB Publication 648474 D04

4.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 4-2).

<i>SAR_design_target</i>			
$SAR_design_target < SAR_regulatory_limit \times 10^{-Total\ Uncertainty/10}$			
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

Table 4-2 *SAR_design_target* Calculations for WWAN Bands

<i>SAR_design_target</i>			
$SAR_design_target < SAR_regulatory_limit \times 10^{-Total\ Uncertainty/10}$			
WLAN 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>	0.8 W/kg	<i>SAR_design_target</i>	2.0 W/kg

Table 4-3 *WLAN SAR_design_target* Calculations

4.3 SAR Characterization

SAR test results corresponding to Pmax for each antenna/technology/band/RSI can be found in Appendix A. Plimit is calculated by linearly scaling with the measured SAR at the Pmax to correspond to the SAR_design_target. Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in Table 4-3.

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plimit > Pmax				Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
SAR Exposure Position			Bodyworn (Non-Head)	Head (RCV ON)	Hotspot	Phablet	
Averaging volume			1g	1g	1g	10g	
separation Distance			5 mm	0 mm	5mm / 10mm	0 mm	
Mode	Band	Antenna	RSI=0	RSI=1	RSI=0	RSI=0	
GSM/GPRS/EDGE	850	A	21.5	32.4	21.5	21.5	25.3
GSM/GPRS/EDGE	1900	B	18.0	33.3	18.0	18.0	22.1
UMTS	2	B	18.0	39.2	18.0	18.0	24.0
UMTS	4	B	19.0	37.0	19.0	19.0	24.0
UMTS	5	A	21.5	24.0	21.5	21.5	24.5
LTE FDD	7	B	18.0	31.0	18.0	18.0	23.0
LTE FDD	7	F	18.0	17.0	18.0	18.0	23.0
LTE FDD	12	A	22.0	31.2	22.0	22.0	24.5
LTE FDD	13	A	23.5	32.0	23.5	23.5	24.0
LTE FDD	14	A	21.5	32.0	21.5	21.5	24.5
LTE FDD	25/2	B	18.0	32.0	18.0	18.0	24.0
LTE FDD	25/2	F	18.0	17.0	18.0	18.0	24.0
LTE FDD	26/5	A	21.5	32.2	21.5	21.5	24.5
LTE FDD	30	B	18.0	30.6	18.0	18.0	22.0
LTE FDD	30	F	18.0	17.5	18.0	18.0	22.0
LTE TDD	41/38	B	17.5	29.4	17.5	17.5	22.0
LTE TDD	48	G	15.0	15.0	15.0	15.0	20.0
LTE FDD	66/4	B	18.0	34.8	18.0	18.0	24.0
LTE FDD	66/4	F	17.0	17.0	17.0	17.0	24.0
LTE FDD	71	A	22.0	33.1	22.0	22.0	24.5
NR FDD	5	A	21.5	30.9	21.5	21.5	24.5
NR FDD	25/2	B	18.0	31.0	18.0	18.0	24.0
NR FDD	25/2	F	18.0	17.0	18.0	18.0	24.0
NR FDD	30	B	18.0	31.2	18.0	18.0	22.0
NR FDD	30	F	18.0	17.5	18.0	18.0	22.0
NR TDD	41	B	17.5	17.5	17.5	17.5	26.0
NR TDD	48	G	15.0	15.0	15.0	15.0	22.0
NR TDD	48	B	15.0	15.0	15.0	15.0	18.0
NR TDD	48	K	15.0	15.0	15.0	15.0	20.0
NR TDD	48	L	15.0	15.0	15.0	15.0	17.0
NR FDD	66	B	18.0	33.3	18.0	18.0	24.0
NR FDD	66	F	17.0	17.0	17.0	17.0	24.0
NR FDD	70	B	17.0	35.3	17.0	17.0	23.0
NR FDD	70	F	16.0	16.0	16.0	16.0	23.0
NR FDD	71	A	22.0	33.3	22.0	22.0	24.5
NR TDD	77/78	G	15.0	14.0	15.0	15.0	26.0
NR TDD	77/78 DoD	G	15.0	14.0	15.0	15.0	26.0
NR TDD	77/78	B	15.0	14.0	15.0	15.0	20.0
NR TDD	77/78 DoD	B	15.0	14.0	15.0	15.0	20.0
NR TDD	77/78	K	15.0	14.0	15.0	15.0	22.0
NR TDD	77/78 DoD	K	15.0	14.0	15.0	15.0	22.0
NR TDD	77/78	L	15.0	14.0	15.0	15.0	20.0
NR TDD	77/78 DoD	L	15.0	14.0	15.0	15.0	20.0

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plimit > Pmax				
Plimit corresponding to 0.8W/kg (1g) 2.0W/kg(10g) SAR_Design_target							Pmax
SAR Exposure Position			Bodyworn (Non-Head)	Head (RCV ON)	Hotspot	Phablet	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
Averaging volume			1g,10g	1g	1g	10g	
separation Distance			5 mm	0 mm	5mm / 10mm	0 mm	
Mode	Band	Antenna	RSI=0	RSI=1	RSI=0	RSI=0	
WLAN	2.4	H	14.0	13.0	14.0	14.0	17.0
WLAN	2.4	H+J	17.0	16.0	17.0	17.0	20.0
WLAN	5	G	11.0	8.0	11.0	11.0	15.0
WLAN	5	G+I	14.0	11.0	14.0	14.0	18.0
BT	2.4	H	17.1	11.0	17.1	19.2	13.0

Table 4-3 SAR Characterization

5. Equipment List

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/5K9GA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/5K3RA1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/59CHA1/C/01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F12/5K9GA1/A/01	N/A	N/A	N/A
Staubli	TX90 Lspeag	F11/5K3RA1/A/01	N/A	N/A	N/A
Staubli	TX90 XLSpeag	F17/59CHA1/A/01	N/A	N/A	N/A
Staubli	D2114210603	S-1206 0513	N/A	N/A	N/A
Staubli	D21142603	S-1203 0309	N/A	N/A	N/A
Staubli	D21142606B	010963	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331936309	12/26/2024	Annual	12/26/2025
TESTO	175-H1/Thermometer	40331915309	12/26/2024	Annual	12/26/2025
SPEAG	DAE4	1254	05/21/2025	Annual	05/21/2026
SPEAG	DAE4	1720	04/19/2025	Annual	04/19/2026
SPEAG	DAE4	868	09/16/2025	Annual	09/16/2026
SPEAG	DAE4	446	03/19/2025	Annual	03/19/2026
SPEAG	E-Field Probe EX3DV4	7732	06/25/2025	Annual	06/25/2026
SPEAG	E-Field Probe EX3DV4	3797	01/21/2025	Annual	01/21/2026
SPEAG	E-Field Probe EX3DV4	7654	06/02/2025	Annual	06/02/2026
SPEAG	E-Field Probe EX3DV4	7679	08/19/2025	Annual	08/19/2026
SPEAG	E-Field Probe ES3DV3	3076	07/22/2025	Annual	07/22/2026
SPEAG	CLA13	1016	11/13/2025	Annual	11/13/2026
SPEAG	Dipole D750V3	1014	05/20/2025	Annual	05/20/2026
SPEAG	Dipole D835V2	441	04/18/2024	Biennial	04/18/2026
SPEAG	Dipole D1640V2	345	07/07/2025	Annual	07/07/2026
SPEAG	Dipole D1800V2	2d015	04/17/2025	Annual	04/17/2026
SPEAG	Dipole D1900V2	5d061	01/20/2025	Annual	01/20/2026
SPEAG	Dipole D2300V2	1010	05/19/2025	Annual	05/19/2026
SPEAG	Dipole D2450V2	1049	03/13/2025	Annual	03/13/2026
SPEAG	Dipole D2600V2	1106	04/15/2025	Annual	04/15/2026
SPEAG	Dipole D3500V2	1040	01/16/2025	Annual	01/16/2026
SPEAG	Dipole D3700V2	1066	09/15/2025	Annual	09/15/2026
SPEAG	Dipole D3900V2	1019	05/21/2025	Annual	05/21/2026
SPEAG	Dipole D5GHzV2	1107	04/19/2024	Biennial	04/19/2026

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	Power Meter E4419B	MY41291386	09/13/2025	Annual	09/13/2026
Agilent	Power Meter E4419B	MY41291386	09/13/2025	Annual	09/13/2026
Agilent	Power Meter N1911A	MY45101406	05/19/2025	Annual	05/19/2026
Agilent	Power Sensor 8481A	SG1091286	09/09/2025	Annual	09/09/2026
H.P	Power Sensor 8481A	MY41090873	01/13/2025	Annual	01/13/2026
Agilent	Wideband Power Sensor N1921A	MY55220026	08/07/2025	Annual	08/07/2026
Agilent	11636B/Power Divider	58698	01/13/2025	Annual	01/13/2026
SPEAG	DAKS 3.5	1038	01/20/2025	Annual	01/20/2026
KEYSIGHT	MXA Signal Analyzer	MY49100108	01/07/2025	Annual	01/07/2026
H.P	Network Analyzer /8753E	JP38451384	08/19/2025	Annual	08/19/2026
Protek	NETWORK ANALYZER	X11-15305	02/10/2025	Annual	02/10/2026
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/15/2025	Annual	09/15/2026
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/29/2025	Annual	07/29/2026
R&S	Wireless Communication Test Set CMW500	115733	03/20/2025	Annual	03/20/2026
R&S	Wireless Communication Test Set CMW500	139333	12/02/2025	Annual	12/02/2026
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/18/2025	Annual	03/18/2026
EMPOWER	RF Power Amplifier	1084	05/20/2025	Annual	05/20/2026
EMPOWER	RF Power Amplifier	1041D/C0508	05/20/2025	Annual	05/20/2026
EMPOWER	RF Power Amplifier	1011	09/15/2025	Annual	09/15/2026
MICRO LAB	LP Filter / LA-15N	10453	09/15/2025	Annual	09/15/2026
MICRO LAB	LP Filter / LA-30N	-	09/15/2025	Annual	09/15/2026
MICRO LAB	LP Filter / LA-60N	32011	09/15/2025	Annual	09/15/2026
Agilent	Attenuator (3dB) 8693B	MY39260298	08/18/2025	Annual	08/18/2026
HP	Attenuator (20dB) 8493C	09271	08/18/2025	Annual	08/18/2026
RF KOREA	Attenuator (30dB)	A-0830	06/24/2025	Annual	06/24/2026
Agilent	Directional Bridge 86205A	3140A04581	04/18/2025	Annual	04/18/2026
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/09/2025	Annual	06/09/2026
HP	Dual Directional Coupler	16072	09/15/2025	Annual	09/15/2026
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/24/2025	Annual	11/24/2026
Anritsu	Radio Communication Test Station MT8000A	6262148305	12/23/2024	Annual	12/23/2025
Anritsu	Radio Communication Tester MT8820C	6201074225	01/13/2025	Annual	01/13/2026
Anritsu	Radio Communication Tester MT8820C	6200695605	03/21/2025	Annual	03/21/2026
Anritsu	Radio Communication Tester MT8821C	6201502997	05/21/2025	Annual	05/21/2026
Anritsu	Radio Communication Tester MT8821C	6262044720	11/24/2025	Annual	11/24/2026
Anritsu	Radio Communication Tester MT8821C	6201664725	01/13/2025	Annual	01/13/2026
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/20/2025	Annual	05/20/2026
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/13/2025	Annual	01/13/2026

Note: All measurements were performed within the valid calibration period of the specific equipment.

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

6. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg, for 10g SAR for all frequency Bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

Appendix A: SAR Test Results For Plimit CALCULATIONS

Table A-1 RSI = 1 *PLimit* Calculations – 2G/3G Head SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
836.6	190	GSM 850	GPRS 4TX	A	24.98	LEFT CHEEK	1:2.07	0.133	33.7	32.4
836.6	190	GSM 850	GSM VOICE	A	24.75	LEFT TILT	1:8.3	0.089	35.3	
836.6	190	GSM 850	GSM VOICE	A	24.75	RIGHT CHEEK	1:8.3	0.173	32.4	
836.6	190	GSM 850	GSM VOICE	A	24.75	RIGHT TILT	1:8.3	0.093	35.1	
1 880	661	GSM 1900	GPRS 3TX	B	21.96	LEFT CHEEK	1:2.77	0.069	33.6	33.3
1 880	661	GSM 1900	GPRS 3TX	B	21.96	LEFT TILT	1:2.77	0.048	35.1	
1 880	661	GSM 1900	GSM VOICE	B	20.74	RIGHT CHEEK	1:8.3	0.056	33.3	
1 880	661	GSM 1900	GSM VOICE	B	20.74	RIGHT TILT	1:8.3	0.039	34.8	
1 880	9400	UMTS 2	RMC	B	23.36	LEFT CHEEK	1:1	0.024	39.6	39.2
1 880	9400	UMTS 2	RMC	B	23.36	LEFT TILT	1:1	0.013	42.2	
1 880	9400	UMTS 2	RMC	B	23.36	RIGHT CHEEK	1:1	0.026	39.2	
1 880	9400	UMTS 2	RMC	B	23.36	RIGHT TILT	1:1	0.019	40.6	
1 732.4	1412	UMTS 4	RMC	B	24.47	LEFT CHEEK	1:1	0.044	38.0	37.0
1 732.4	1412	UMTS 4	RMC	B	24.47	LEFT TILT	1:1	0.029	39.8	
1 732.4	1412	UMTS 4	RMC	B	24.47	RIGHT CHEEK	1:1	0.056	37.0	
1 732.4	1412	UMTS 4	RMC	B	24.47	RIGHT TILT	1:1	0.022	41.0	
836.6	4183	UMTS 5	RMC	A	23.52	LEFT CHEEK	1:1	0.095	33.7	32.8
836.6	4183	UMTS 5	RMC	A	23.52	LEFT TILT	1:1	0.043	37.2	
836.6	4183	UMTS 5	RMC	A	23.52	RIGHT CHEEK	1:1	0.118	32.8	
836.6	4183	UMTS 5	RMC	A	23.52	RIGHT TILT	1:1	0.069	35.1	

Table A-2 RSI = 1 *PLimit* Calculations – 4G Head SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 510	20850	LTE 7	QPSK	B	23.28	LEFT CHEEK	1:1	0.171	31.0	31.0
2 560	21350	LTE 7	QPSK	B	22.07	LEFT TILT	1:1	0.050	35.1	
2 560	21350	LTE 7	QPSK	B	23.28	RIGHT CHEEK	1:1	0.154	31.4	
2 510	20850	LTE 7	QPSK	B	23.28	RIGHT TILT	1:1	0.111	32.8	
2 560	21350	LTE 7	QPSK	F	17.43	LEFT CHEEK	1:1	0.239	23.6	21.7
2 560	21350	LTE 7	QPSK	F	17.43	LEFT TILT	1:1	0.285	22.9	
2 560	21350	LTE 7	QPSK	F	17.43	RIGHT CHEEK	1:1	0.349	22.0	
2 560	21350	LTE 7	QPSK	F	17.43	RIGHT TILT	1:1	0.375	21.7	
707.5	23095	LTE 12	QPSK	A	24.44	LEFT CHEEK	1:1	0.163	32.3	31.2
707.5	23095	LTE 12	QPSK	A	24.44	LEFT TILT	1:1	0.125	33.5	
707.5	23095	LTE 12	QPSK	A	24.44	RIGHT CHEEK	1:1	0.210	31.2	
707.5	23095	LTE 12	QPSK	A	24.44	RIGHT TILT	1:1	0.122	33.6	
782	23230	LTE 13	QPSK	A	24.22	LEFT CHEEK	1:1	0.134	32.9	32.0
782	23230	LTE 13	QPSK	A	24.22	LEFT TILT	1:1	0.092	34.6	
782	23230	LTE 13	QPSK	A	24.22	RIGHT CHEEK	1:1	0.168	32.0	
782	23230	LTE 13	QPSK	A	24.22	RIGHT TILT	1:1	0.078	35.3	
793	23330	LTE 14	QPSK	A	24.70	LEFT CHEEK	1:1	0.131	33.5	32.0
793	23330	LTE 14	QPSK	A	24.70	LEFT TILT	1:1	0.078	35.8	
793	23330	LTE 14	QPSK	A	24.70	RIGHT CHEEK	1:1	0.188	32.0	
793	23330	LTE 14	QPSK	A	24.70	RIGHT TILT	1:1	0.090	35.2	
1 905	26590	LTE 25	QPSK	B	24.13	LEFT CHEEK	1:1	0.162	32.0	32.0
1 905	26590	LTE 25	QPSK	B	24.13	LEFT TILT	1:1	0.081	35.0	
1 905	26590	LTE 25	QPSK	B	24.13	RIGHT CHEEK	1:1	0.124	33.2	
1 905	26590	LTE 25	QPSK	B	24.13	RIGHT TILT	1:1	0.097	34.3	
1 860	26140	LTE 25	QPSK	F	17.40	LEFT CHEEK	1:1	0.377	21.6	19.6
1 860	26140	LTE 25	QPSK	F	17.40	LEFT TILT	1:1	0.451	20.9	
1 860	26140	LTE 25	QPSK	F	17.40	RIGHT CHEEK	1:1	0.575	19.8	
1 860	26140	LTE 25	QPSK	F	17.40	RIGHT TILT	1:1	0.607	19.6	
831.5	26865	LTE 26	QPSK	A	25.23	LEFT CHEEK	1:1	0.128	34.2	32.2
831.5	26865	LTE 26	QPSK	A	25.23	LEFT TILT	1:1	0.093	35.5	
831.5	26865	LTE 26	QPSK	A	25.23	RIGHT CHEEK	1:1	0.200	32.2	
831.5	26865	LTE 26	QPSK	A	25.23	RIGHT TILT	1:1	0.102	35.1	
2 310	27710	LTE 30	QPSK	B	21.88	LEFT CHEEK	1:1	0.134	30.6	30.6
2 310	27710	LTE 30	QPSK	B	21.88	LEFT TILT	1:1	0.049	35.0	
2 310	27710	LTE 30	QPSK	B	21.88	RIGHT CHEEK	1:1	0.088	32.4	
2 310	27710	LTE 30	QPSK	B	21.88	RIGHT TILT	1:1	0.062	34.0	
2 310	27710	LTE 30	QPSK	B	17.71	LEFT CHEEK	1:1	0.309	22.8	20.4
2 310	27710	LTE 30	QPSK	B	17.43	LEFT TILT	1:1	0.399	21.4	
2 310	27710	LTE 30	QPSK	B	17.43	RIGHT CHEEK	1:1	0.505	20.4	
2 310	27710	LTE 30	QPSK	B	17.71	RIGHT TILT	1:1	0.533	20.4	

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 549.5	40185	LTE 41	QPSK	B	21.45	LEFT CHEEK	1:1.58	0.160	29.4	29.4
2 549.5	40185	LTE 41	QPSK	B	21.45	LEFT TILT	1:1.58	0.036	35.9	
2 549.5	40185	LTE 41	QPSK	B	21.45	RIGHT CHEEK	1:1.58	0.119	30.7	
2 549.5	40185	LTE 41	QPSK	B	21.45	RIGHT TILT	1:1.58	0.072	32.9	
3 690	56640	LTE 48	QPSK	G	15.09	LEFT CHEEK	1:1.58	0.133	23.9	18.2
3 690	56640	LTE 48	QPSK	G	15.09	LEFT TILT	1:1.58	0.078	26.2	
3 690	56640	LTE 48	QPSK	G	14.80	RIGHT CHEEK	1:1.58	0.464	18.2	
3 690	56640	LTE 48	QPSK	G	15.09	RIGHT TILT	1:1.58	0.288	20.5	
1 745	132322	LTE 66	QPSK	B	24.19	LEFT CHEEK	1:1	0.066	36.0	34.8
1 745	132322	LTE 66	QPSK	B	24.19	LEFT TILT	1:1	0.047	37.5	
1 745	132322	LTE 66	QPSK	B	24.19	RIGHT CHEEK	1:1	0.086	34.8	
1 745	132322	LTE 66	QPSK	B	24.19	RIGHT TILT	1:1	0.057	36.6	
1 745	132322	LTE 66	QPSK	F	17.42	LEFT CHEEK	1:1	0.395	21.5	19.5
1 745	132322	LTE 66	QPSK	F	17.42	LEFT TILT	1:1	0.468	20.7	
1 745	132322	LTE 66	QPSK	F	17.42	RIGHT CHEEK	1:1	0.618	19.5	
1 745	132322	LTE 66	QPSK	F	17.42	RIGHT TILT	1:1	0.614	19.5	
680.5	133297	LTE 71	QPSK	A	24.84	LEFT CHEEK	1:1	0.130	33.7	33.1
680.5	133297	LTE 71	QPSK	A	24.84	LEFT TILT	1:1	0.041	38.7	
680.5	133297	LTE 71	QPSK	A	24.84	RIGHT CHEEK	1:1	0.150	33.1	
680.5	133297	LTE 71	QPSK	A	24.84	RIGHT TILT	1:1	0.065	36.7	

Table A-3 RSI = 1 *PLimit* Calculations – NR Head SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.
NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.

SAR measurements of all NR TDD bands were measured in FTM Mode.

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
836.5	167300	NR n5	DFT-S QPSK	A	24.80	LEFT CHEEK	1:1	0.157	32.8	30.9
836.5	167300	NR n5	DFT-S QPSK	A	24.80	LEFT TILT	1:1	0.098	34.9	
836.5	167300	NR n5	DFT-S QPSK	A	24.80	RIGHT CHEEK	1:1	0.245	30.9	
836.5	167300	NR n5	DFT-S QPSK	A	24.82	RIGHT TILT	1:1	0.129	33.7	
1 882.5	376500	NR n25	DFT-S QPSK	B	23.57	LEFT CHEEK	1:1	0.179	31.0	31.0
1 882.5	376500	NR n25	DFT-S QPSK	B	23.57	LEFT TILT	1:1	0.108	33.2	
1 882.5	376500	NR n25	DFT-S QPSK	B	23.57	RIGHT CHEEK	1:1	0.146	31.9	
1 882.5	376500	NR n25	DFT-S QPSK	B	23.38	RIGHT TILT	1:1	0.116	32.7	
1 882.5	376500	NR n25	DFT-S QPSK	F	17.99	LEFT CHEEK	1:1	0.418	21.8	19.1
1 882.5	376500	NR n25	DFT-S QPSK	F	17.98	LEFT TILT	1:1	0.469	21.3	
1 882.5	376500	NR n25	DFT-S QPSK	F	17.98	RIGHT CHEEK	1:1	0.722	19.4	
1 882.5	376500	NR n25	DFT-S QPSK	F	17.98	RIGHT TILT	1:1	0.774	19.1	
2 310	462000	NR n30	DFT-S QPSK	B	22.13	LEFT CHEEK	1:1	0.125	31.2	31.2
2 310	462000	NR n30	DFT-S QPSK	B	22.13	LEFT TILT	1:1	0.058	34.5	
2 310	462000	NR n30	DFT-S QPSK	B	22.13	RIGHT CHEEK	1:1	0.094	32.4	
2 310	462000	NR n30	DFT-S QPSK	B	22.13	RIGHT TILT	1:1	0.087	32.7	
2 310	462000	NR n30	DFT-S QPSK	F	17.96	LEFT CHEEK	1:1	0.327	22.8	20.0
2 310	462000	NR n30	DFT-S QPSK	F	17.96	LEFT TILT	1:1	0.328	22.8	
2 310	462000	NR n30	CP QPSK	F	17.83	RIGHT CHEEK	1:1	0.609	20.0	
2 310	462000	NR n30	DFT-S QPSK	F	17.96	RIGHT TILT	1:1	0.564	20.4	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	LEFT CHEEK	1:1	0.055	30.6	30.6
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	LEFT TILT	1:1	0.008	39.0	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	RIGHT CHEEK	1:1	0.037	32.3	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	RIGHT TILT	1:1	0.027	33.7	
3 570	638000	NR n48	DFT-S QPSK	G	15.09	LEFT CHEEK	1:1	0.152	23.3	17.8
3 570	638000	NR n48	DFT-S QPSK	G	15.09	LEFT TILT	1:1	0.111	24.6	
3 570	638000	NR n48	DFT-S QPSK	G	15.04	RIGHT CHEEK	1:1	0.525	17.8	
3 570	638000	NR n48	DFT-S QPSK	G	15.04	RIGHT TILT	1:1	0.281	20.6	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	LEFT CHEEK	1:1	0.000	N/A	45.8
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	LEFT TILT	1:1	0.000	N/A	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	RIGHT CHEEK	1:1	0.001	45.8	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	RIGHT TILT	1:1	0.000	N/A	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	LEFT CHEEK	1:1	0.000	N/A	40.8
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	LEFT TILT	1:1	0.003	40.8	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	RIGHT CHEEK	1:1	0.000	N/A	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	RIGHT TILT	1:1	0.003	40.8	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	LEFT CHEEK	1:1	0.006	38.0	35.0
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	LEFT TILT	1:1	0.002	42.8	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	RIGHT CHEEK	1:1	0.009	36.2	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	RIGHT TILT	1:1	0.012	35.0	

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
1 745	349000	NR n66	DFT-S QPSK	B	24.33	LEFT CHEEK	1:1	0.128	33.3	33.3
1 745	349000	NR n66	DFT-S QPSK	B	24.43	LEFT TILT	1:1	0.086	35.1	
1 745	349000	NR n66	DFT-S QPSK	B	24.33	RIGHT CHEEK	1:1	0.127	33.3	
1 745	349000	NR n66	DFT-S QPSK	B	24.33	RIGHT TILT	1:1	0.082	35.2	
1 745	349000	NR n66	DFT-S QPSK	F	17.99	LEFT CHEEK	1:1	0.424	21.7	19.2
1 745	349000	NR n66	DFT-S QPSK	F	17.98	LEFT TILT	1:1	0.512	20.9	
1 745	349000	NR n66	DFT-S QPSK	F	17.98	RIGHT CHEEK	1:1	0.664	19.8	
1 745	349000	NR n66	DFT-S QPSK	F	17.98	RIGHT TILT	1:1	0.763	19.2	
1 702.5	340500	NR n70	DFT-S QPSK	B	23.26	LEFT CHEEK	1:1	0.063	35.3	35.3
1 702.5	340500	NR n70	DFT-S QPSK	B	23.26	LEFT TILT	1:1	0.025	39.3	
1 702.5	340500	NR n70	DFT-S QPSK	B	23.36	RIGHT CHEEK	1:1	0.063	35.4	
1 702.5	340500	NR n70	DFT-S QPSK	B	23.26	RIGHT TILT	1:1	0.031	38.3	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	LEFT CHEEK	1:1	0.431	20.6	18.5
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	LEFT TILT	1:1	0.494	20.0	
1 702.5	340500	NR n70	CP QPSK	F	16.85	RIGHT CHEEK	1:1	0.686	18.5	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	RIGHT TILT	1:1	0.637	18.9	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	LEFT CHEEK	1:1	0.067	37.1	33.3
680.5	136100	NR n71	DFT-S QPSK	A	22.48	LEFT TILT	1:1	0.054	38.1	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	RIGHT CHEEK	1:1	0.164	33.3	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	RIGHT TILT	1:1	0.090	35.9	
3 750	650000	NR n77	DFT-S QPSK	G	14.58	LEFT CHEEK	1:1	0.168	22.3	17.2
3 750	650000	NR n77	DFT-S QPSK	G	14.58	LEFT TILT	1:1	0.134	23.3	
3 750	650000	NR n77	CP QPSK	G	14.86	RIGHT CHEEK	1:1	0.581	17.2	
3 750	650000	NR n77	DFT-S QPSK	G	14.58	RIGHT TILT	1:1	0.333	19.4	
3 500.01	633334	NR n77	DFT-S QPSK	G	14.83	RIGHT CHEEK	1:1	0.601	17.0	17.0
3 930	662000	NR n77	DFT-S QPSK	B	14.73	LEFT CHEEK	1:1	0.000	N/A	44.7
3 930	662000	NR n77	DFT-S QPSK	B	14.73	LEFT TILT	1:1	0.001	44.7	
3 930	662000	NR n77	DFT-S QPSK	B	14.73	RIGHT CHEEK	1:1	0.000	N/A	
3 930	662000	NR n77	DFT-S QPSK	B	14.73	RIGHT TILT	1:1	0.000	N/A	
3 500.01	633334	NR n77	DFT-S QPSK	B	13.72	LEFT TILT	1:1	0.001	43.7	43.7
3 930	662000	NR n77	DFT-S QPSK	K	14.38	LEFT CHEEK	1:1	0.000	N/A	31.2
3 930	662000	NR n77	DFT-S QPSK	K	14.38	LEFT TILT	1:1	0.021	31.2	
3 930	662000	NR n77	DFT-S QPSK	K	14.38	RIGHT CHEEK	1:1	0.000	N/A	
3 930	662000	NR n77	DFT-S QPSK	K	14.38	RIGHT TILT	1:1	0.00252	39.6	
3 500.01	633334	NR n77	DFT-S QPSK	K	14.40	LEFT TILT	1:1	0.001	44.4	44.4
3 930	662000	NR n77	DFT-S QPSK	L	13.49	LEFT CHEEK	1:1	0.000	N/A	30.5
3 930	662000	NR n77	DFT-S QPSK	L	13.49	LEFT TILT	1:1	0.020	30.5	
3 930	662000	NR n77	DFT-S QPSK	L	13.49	RIGHT CHEEK	1:1	0.016	31.4	
3 930	662000	NR n77	DFT-S QPSK	L	13.49	RIGHT TILT	1:1	0.018	30.9	
3 500.01	633334	NR n77	DFT-S QPSK	L	13.46	LEFT TILT	1:1	0.00503	36.5	36.5

Table A-4 RSI = 1 *PLimit* Calculations – WLAN Head SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 412	1	2.4GHZ WLAN SISO	802.11b	H	13.98	LEFT CHEEK	98.6	0.123	22.1	17.9
2 412	1	2.4GHZ WLAN SISO	802.11b	H	13.98	LEFT TILT	98.6	0.063	25.0	
2 412	1	2.4GHZ WLAN SISO	802.11b	H	13.98	RIGHT CHEEK	98.6	0.327	17.9	
2 412	1	2.4GHZ WLAN SISO	802.11b	H	13.98	RIGHT TILT	98.6	0.172	20.7	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	16.98	LEFT CHEEK	98.6	0.134	24.7	19.9
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	16.98	LEFT TILT	98.6	0.081	26.9	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	16.98	RIGHT CHEEK	98.6	0.408	19.9	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	16.98	RIGHT TILT	98.6	0.147	24.3	
5 290	58	UNII 2A	802.11ac	G	8.92	LEFT CHEEK	87.2	0.000	N/A	20.4
5 290	58	UNII 2A	802.11ac	G	8.92	LEFT TILT	87.2	0.000	N/A	
5 290	58	UNII 2A	802.11ac	G	8.92	RIGHT CHEEK	87.2	0.057	20.4	
5 290	58	UNII 2A	802.11ac	G	8.92	RIGHT TILT	87.2	0.038	22.2	
5 290	58	UNII 2A	802.11ac	G+I	11.37	LEFT CHEEK	87.2	0.000	N/A	18.9
5 290	58	UNII 2A	802.11ac	G+I	11.37	LEFT TILT	87.2	0.002	37.4	
5 290	58	UNII 2A	802.11ac	G+I	11.37	RIGHT CHEEK	87.2	0.141	18.9	
5 290	58	UNII 2A	802.11ac	G+I	11.37	RIGHT TILT	87.2	0.048	23.6	
5 690	138	UNII 2C	802.11ac	G	8.95	LEFT CHEEK	87.2	0.015	26.2	20.3
5 690	138	UNII 2C	802.11ac	G	8.95	LEFT TILT	87.2	0.020	25.0	
5 690	138	UNII 2C	802.11ac	G	8.95	RIGHT CHEEK	87.2	0.058	20.3	
5 690	138	UNII 2C	802.11ac	G	8.95	RIGHT TILT	87.2	0.040	22.0	
5 690	138	UNII 2C	802.11ac	G+I	11.56	LEFT CHEEK	87.2	0.033	25.4	18.2
5 690	138	UNII 2C	802.11ac	G+I	11.56	LEFT TILT	87.2	0.016	28.5	
5 690	138	UNII 2C	802.11ac	G+I	11.56	RIGHT CHEEK	87.2	0.173	18.2	
5 690	138	UNII 2C	802.11ac	G+I	11.56	RIGHT TILT	87.2	0.060	22.8	
5 775	155	UNII 3	802.11ac	G	8.94	LEFT CHEEK	87.2	0.000	N/A	16.8
5 775	155	UNII 3	802.11ac	G	8.94	LEFT TILT	87.2	0.000	N/A	
5 775	155	UNII 3	802.11ac	G	8.94	RIGHT CHEEK	87.2	0.131	16.8	
5 775	155	UNII 3	802.11ac	G	8.94	RIGHT TILT	87.2	0.090	18.4	
5 775	155	UNII 3	802.11ac	G+I	11.84	LEFT CHEEK	87.2	0.044	24.4	18.5
5 775	155	UNII 3	802.11ac	G+I	11.84	LEFT TILT	87.2	0.013	29.7	
5 775	155	UNII 3	802.11ac	G+I	11.84	RIGHT CHEEK	87.2	0.174	18.5	
5 775	155	UNII 3	802.11ac	G+I	11.84	RIGHT TILT	87.2	0.059	23.2	
5 855	171	UNII 4	802.11ac	G	8.75	LEFT CHEEK	87.2	0.001	37.8	17.0
5 855	171	UNII 4	802.11ac	G	8.75	LEFT TILT	87.2	0.000	N/A	
5 855	171	UNII 4	802.11ac	G	8.75	RIGHT CHEEK	87.2	0.119	17.0	
5 855	171	UNII 4	802.11ac	G	8.75	RIGHT TILT	87.2	0.070	19.3	
5 855	171	UNII 4	802.11ac	G+I	11.82	LEFT CHEEK	87.2	0.038	25.1	18.3
5 855	171	UNII 4	802.11ac	G+I	11.82	LEFT TILT	87.2	0.000	N/A	
5 855	171	UNII 4	802.11ac	G+I	11.82	RIGHT CHEEK	87.2	0.181	18.3	
5 855	171	UNII 4	802.11ac	G+I	11.82	RIGHT TILT	87.2	0.056	23.4	

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 480	78	BLUETOOTH	2-DH5	H	11.98	LEFT CHEEK	77.3	0.045	24.5	15.7
2 480	78	BLUETOOTH	2-DH5	H	11.98	LEFT TILT	77.3	0.024	27.2	
2 480	78	BLUETOOTH	2-DH5	H	11.98	RIGHT CHEEK	77.3	0.337	15.7	
2 480	78	BLUETOOTH	2-DH5	H	11.98	RIGHT TILT	77.3	0.058	23.4	
2 440	17	BLUETOOTH LE	LE 125K(255)	H	11.12	LEFT CHEEK	97.5	0.057	22.6	16.8
2 440	17	BLUETOOTH LE	LE 125K(255)	H	11.12	LEFT TILT	97.5	0.037	24.5	
2 440	17	BLUETOOTH LE	LE 125K(255)	H	11.12	RIGHT CHEEK	97.5	0.214	16.8	
2 440	17	BLUETOOTH LE	LE 125K(255)	H	11.12	RIGHT TILT	97.5	0.071	21.6	

Table A-5 RSI = 0 P_{Limit} Calculations – 2G/3G Body-Worn SAR

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

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
836.6	190	GSM 850	GSM VOICE	A	22.50	REAR	5	1:8.3	0.488	25.6	25.6
836.6	190	GSM 850	GSM VOICE	A	22.50	FRONT	5	1:8.3	0.249	28.5	
1 880	661	GSM 1900	GSM VOICE	B	17.73	REAR	5	1:8.3	0.438	21.3	21.3
1 880	661	GSM 1900	GSM VOICE	B	17.73	FRONT	5	1:8.3	0.244	23.9	
1 880	9400	UMTS 2	RMC	B	17.68	REAR	5	1:1	0.421	21.4	21.4
1 880	9400	UMTS 2	RMC	B	17.68	FRONT	5	1:1	0.210	24.5	
1 732.4	1412	UMTS 4	RMC	B	18.85	REAR	5	1:1	0.280	24.4	24.4
1 732.4	1412	UMTS 4	RMC	B	18.85	FRONT	5	1:1	0.140	27.4	
836.6	4183	UMTS 5	RMC	A	21.36	REAR	5	1:1	0.597	23.6	23.6
836.6	4183	UMTS 5	RMC	A	21.36	FRONT	5	1:1	0.328	26.2	

Table A-6 RSI = 0 P_{Limit} Calculations – 4G Body-Worn SAR

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

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 560	21350	LTE 7	QPSK	B	18.26	REAR	5	1:1	0.664	20.0	20.0
2 560	21350	LTE 7	QPSK	B	18.26	FRONT	5	1:1	0.430	21.9	
2 560	21350	LTE 7	QPSK	F	18.54	REAR	5	1:1	0.610	20.7	20.7
2 560	21350	LTE 7	QPSK	F	18.54	FRONT	5	1:1	0.208	25.4	
707.5	23095	LTE 12	QPSK	A	22.43	REAR	5	1:1	0.534	25.2	25.2
707.5	23095	LTE 12	QPSK	A	22.43	FRONT	5	1:1	0.441	26.0	
782	23230	LTE 13	QPSK	A	23.38	REAR	5	1:1	0.914	23.8	23.8
782	23230	LTE 13	QPSK	A	23.38	FRONT	5	1:1	0.411	27.2	
793	23330	LTE 14	QPSK	A	21.45	REAR	5	1:1	0.600	23.7	23.7
793	23330	LTE 14	QPSK	A	21.45	FRONT	5	1:1	0.370	25.8	
1 905	26590	LTE 25	QPSK	B	18.14	REAR	5	1:1	0.454	21.6	21.6
1 905	26590	LTE 25	QPSK	B	18.14	FRONT	5	1:1	0.249	24.2	
1 860	26140	LTE 25	QPSK	F	17.96	REAR	5	1:1	0.502	21.0	21.0
1 860	26140	LTE 25	QPSK	F	17.96	FRONT	5	1:1	0.289	23.4	
831.5	26865	LTE 26	QPSK	A	21.25	REAR	5	1:1	0.578	23.6	23.6
831.5	26865	LTE 26	QPSK	A	21.30	FRONT	5	1:1	0.417	25.1	
2 310	27710	LTE 30	QPSK	B	17.97	REAR	5	1:1	0.610	20.1	20.1
2 310	27710	LTE 30	QPSK	B	17.97	FRONT	5	1:1	0.349	22.5	
2 310	27710	LTE 30	QPSK	B	18.14	REAR	5	1:1	0.545	20.8	20.8
2 310	27710	LTE 30	QPSK	B	18.14	FRONT	5	1:1	0.319	23.1	
2 549.5	40185	LTE 41	QPSK	B	18.34	REAR	5	1:1.58	0.577	20.7	20.7
2 549.5	40185	LTE 41	QPSK	B	18.31	FRONT	5	1:1.58	0.426	22.0	
3 690	56640	LTE 48	QPSK	G	15.09	REAR	5	1:1.58	0.213	21.8	21.8
3 690	56640	LTE 48	QPSK	G	15.09	FRONT	5	1:1.58	0.132	23.9	
1 745	132322	LTE 66	QPSK	B	17.76	REAR	5	1:1	0.317	22.7	22.7
1 745	132322	LTE 66	QPSK	B	17.98	FRONT	5	1:1	0.239	24.2	
1 745	132322	LTE 66	QPSK	F	17.42	REAR	5	1:1	0.610	19.6	19.6
1 745	132322	LTE 66	QPSK	F	17.42	FRONT	5	1:1	0.422	21.2	
680.5	133297	LTE 71	QPSK	A	22.77	REAR	5	1:1	0.395	26.8	26.8
680.5	133297	LTE 71	QPSK	A	22.77	FRONT	5	1:1	0.221	29.3	

Table A-7 RSI = 0 *PLimit* Calculations – NR Body-Worn SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.

NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.0

SAR measurements of all NR TDD bands were measured in FTM Mode.

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
836.5	167300	NR n5	DFT-S QPSK	A	21.36	REAR	5	1:1	0.607	23.5	23.5
836.5	167300	NR n5	DFT-S QPSK	A	21.38	FRONT	5	1:1	0.344	26.0	
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	REAR	5	1:1	0.400	21.9	21.9
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	FRONT	5	1:1	0.204	24.9	
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	REAR	5	1:1	0.518	20.9	20.9
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	FRONT	5	1:1	0.330	22.9	
2 310	462000	NR n30	CP QPSK	B	17.77	REAR	5	1:1	0.496	20.8	20.8
2 310	462000	NR n30	DFT-S QPSK	B	17.82	FRONT	5	1:1	0.270	23.5	
2 310	462000	NR n30	DFT-S QPSK	F	18.04	REAR	5	1:1	0.571	20.5	20.5
2 310	462000	NR n30	DFT-S QPSK	F	18.04	FRONT	5	1:1	0.307	23.2	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	REAR	5	1:1	0.685	19.7	19.7
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	FRONT	5	1:1	0.314	23.1	
3 570	638000	NR n48	DFT-S QPSK	G	15.09	REAR	5	1:1	0.362	19.5	19.5
3 570	638000	NR n48	DFT-S QPSK	G	15.09	FRONT	5	1:1	0.232	21.4	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	REAR	5	1:1	0.102	25.7	25.7
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	FRONT	5	1:1	0.054	28.5	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	REAR	5	1:1	0.450	19.1	19.1
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	FRONT	5	1:1	0.004	39.6	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	REAR	5	1:1	0.086	26.4	26.4
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	FRONT	5	1:1	0.006	38.0	
1 745	349000	NR n66	DFT-S QPSK	B	18.00	REAR	5	1:1	0.322	22.9	22.9
1 745	349000	NR n66	DFT-S QPSK	B	18.02	FRONT	5	1:1	0.198	25.1	
1 745	349000	NR n66	CP QPSK	F	17.37	REAR	5	1:1	0.624	19.4	19.4
1 745	349000	NR n66	DFT-S QPSK	F	17.98	FRONT	5	1:1	0.434	21.6	
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	REAR	5	1:1	0.229	23.6	23.6
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	FRONT	5	1:1	0.198	24.2	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	REAR	5	1:1	0.587	19.3	19.3
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	FRONT	5	1:1	0.336	21.7	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	REAR	5	1:1	0.416	26.3	26.3
680.5	136100	NR n71	DFT-S QPSK	A	22.48	FRONT	5	1:1	0.238	28.7	
3 750	650000	NR n77	CP QPSK	G	15.06	REAR	5	1:1	0.635	17.0	17.0
3 750	650000	NR n77	DFT-S QPSK	G	15.16	FRONT	5	1:1	0.329	20.0	
3 500.01	633334	NR n77	DFT-S QPSK	G	14.87	REAR	5	1:1	0.577	17.3	17.3
3 930	662000	NR n77	DFT-S QPSK	B	15.66	REAR	5	1:1	0.171	23.3	23.3
3 930	662000	NR n77	DFT-S QPSK	B	15.66	FRONT	5	1:1	0.055	28.3	
3 500.01	633334	NR n77	DFT-S QPSK	B	15.22	REAR	5	1:1	0.220	21.8	21.8
3 930	662000	NR n77	DFT-S QPSK	K	15.42	REAR	5	1:1	0.384	19.6	19.6
3 930	662000	NR n77	DFT-S QPSK	K	15.42	FRONT	5	1:1	0.0053	38.1	
3 500.01	633334	NR n77	DFT-S QPSK	K	15.48	REAR	5	1:1	0.102	25.4	25.4
3 930	662000	NR n77	DFT-S QPSK	L	14.38	REAR	5	1:1	0.061	26.5	26.5
3 930	662000	NR n77	DFT-S QPSK	L	14.38	FRONT	5	1:1	0.012	33.6	
3 500.01	633334	NR n77	DFT-S QPSK	L	14.78	REAR	5	1:1	0.069	26.4	26.4

Table A-8 RSI = 0 *PLimit* Calculations – WLAN Body-Worn SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	REAR	5	98.6	0.407	17.9	17.9
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	FRONT	5	98.6	0.355	18.5	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	REAR	5	98.6	0.462	20.3	20.3
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	FRONT	5	98.6	0.362	21.4	
5 270	54	UNII 2A	802.11n	G	10.54	REAR	5	85.9	0.092	19.9	19.9
5 270	54	UNII 2A	802.11n	G	10.54	FRONT	5	85.9	0.074	20.9	
5 270	54	UNII 2A	802.11n	G+I	13.51	REAR	5	85.9	0.111	22.1	21.2
5 270	54	UNII 2A	802.11n	G+I	13.51	FRONT	5	85.9	0.135	21.2	
5 690	138	UNII 2C	802.11ac	G	11.91	REAR	5	87.2	0.272	16.6	16.6
5 690	138	UNII 2C	802.11ac	G	11.91	FRONT	5	87.2	0.069	22.6	
5 690	138	UNII 2C	802.11ac	G+I	14.53	REAR	5	87.2	0.242	19.7	19.7
5 690	138	UNII 2C	802.11ac	G+I	14.53	FRONT	5	87.2	0.167	21.3	
5 775	155	UNII 3	802.11ac	G	11.88	REAR	5	87.2	0.239	17.1	17.1
5 775	155	UNII 3	802.11ac	G	11.88	FRONT	5	87.2	0.092	21.3	
5 775	155	UNII 3	802.11ac	G+I	14.45	REAR	5	87.2	0.165	21.3	21.3
5 775	155	UNII 3	802.11ac	G+I	14.45	FRONT	5	87.2	0.139	22.1	
5 855	171	UNII 4	802.11ac	G	11.42	REAR	5	87.2	0.169	18.2	18.2
5 855	171	UNII 4	802.11ac	G	11.42	FRONT	5	87.2	0.100	20.5	
5 855	171	UNII 4	802.11ac	G+I	14.59	REAR	5	91.9	0.177	21.1	21.0
5 855	171	UNII 4	802.11ac	G+I	14.59	FRONT	5	91.9	0.184	21.0	
2 402	0	BLUETOOTH	DH5	H	13.87	REAR	5	77.3	0.380	17.1	17.1
2 402	0	BLUETOOTH	DH5	H	13.87	FRONT	5	77.3	0.154	21.0	
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	REAR	5	97.5	0.276	18.4	18.4
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	FRONT	5	97.5	0.165	20.6	

Table A-9 RSI = 0 P_{Limit} Calculations – 2G/3G Hotspot SAR

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

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
824.2	190	GSM 850	GPRS 4TX	A	20.99	REAR	5	1:2.07	0.390	25.1	25.1
836.6	190	GSM 850	GPRS 4TX	A	20.99	FRONT	5	1:2.07	0.141	29.5	
836.6	190	GSM 850	GPRS 4TX	A	20.99	RIGHT	10	1:2.07	0.071	32.5	
836.6	190	GSM 850	GPRS 4TX	A	20.99	BOTTOM	10	1:2.07	0.147	29.3	
1 880	661	GSM 1900	GPRS 4TX	B	17.23	REAR	5	1:2.07	0.388	21.3	21.3
1 880	661	GSM 1900	GPRS 4TX	B	17.23	FRONT	5	1:2.07	0.243	23.4	
1 880	661	GSM 1900	GPRS 4TX	B	17.23	LEFT	10	1:2.07	0.071	28.7	
1 880	661	GSM 1900	GPRS 4TX	B	17.23	BOTTOM	10	1:2.07	0.276	22.8	
1 880	9400	UMTS 2	RMC	B	17.68	REAR	5	1:1	0.421	21.4	21.4
1 880	9400	UMTS 2	RMC	B	17.68	FRONT	5	1:1	0.210	24.5	
1 880	9400	UMTS 2	RMC	B	17.68	LEFT	10	1:1	0.096	27.9	
1 880	9400	UMTS 2	RMC	B	17.68	BOTTOM	10	1:1	0.262	23.5	
1 752.6	1412	UMTS 4	RMC	B	18.85	REAR	5	1:1	0.280	24.4	24.4
1 732.4	1412	UMTS 4	RMC	B	18.85	FRONT	5	1:1	0.140	27.4	
1 732.4	1412	UMTS 4	RMC	B	18.85	LEFT	10	1:1	0.036	33.3	
1 732.4	1412	UMTS 4	RMC	B	18.85	BOTTOM	10	1:1	0.213	25.6	
846.6	4183	UMTS 5	RMC	A	21.36	REAR	5	1:1	0.597	23.6	23.6
836.6	4183	UMTS 5	RMC	A	21.36	FRONT	5	1:1	0.328	26.2	
836.6	4183	UMTS 5	RMC	A	21.36	RIGHT	10	1:1	0.114	30.8	
836.6	4183	UMTS 5	RMC	A	21.36	BOTTOM	10	1:1	0.210	28.1	

Table A-10 RSI = 0 P_{Limit} Calculations – 4G Hotspot SAR

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

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
2 560	21350	LTE 7	QPSK	B	18.26	REAR	5	1:1	0.664	20.0	20.0
2 560	21350	LTE 7	QPSK	B	18.26	FRONT	5	1:1	0.430	21.9	
2 560	21350	LTE 7	QPSK	B	18.26	LEFT	10	1:1	0.076	29.5	
2 560	21350	LTE 7	QPSK	B	18.26	BOTTOM	10	1:1	0.377	22.5	
2 560	21350	LTE 7	QPSK	F	18.54	REAR	5	1:1	0.610	20.7	20.7
2 560	21350	LTE 7	QPSK	F	18.54	FRONT	5	1:1	0.208	25.4	
2 560	21350	LTE 7	QPSK	F	18.54	LEFT	10	1:1	0.059	30.8	
2 560	21350	LTE 7	QPSK	F	18.54	TOP	10	1:1	0.278	24.1	
707.5	23095	LTE 12	QPSK	A	22.43	REAR	5	1:1	0.534	25.2	25.2
707.5	23095	LTE 12	QPSK	A	22.43	FRONT	5	1:1	0.441	26.0	
707.5	23095	LTE 12	QPSK	A	22.43	RIGHT	10	1:1	0.340	27.1	
707.5	23095	LTE 12	QPSK	A	22.43	BOTTOM	10	1:1	0.154	30.6	
782	23230	LTE 13	QPSK	A	23.38	REAR	5	1:1	0.914	23.8	23.8
782	23230	LTE 13	QPSK	A	23.38	FRONT	5	1:1	0.411	27.2	
782	23230	LTE 13	QPSK	A	23.38	RIGHT	10	1:1	0.337	28.1	
782	23230	LTE 13	QPSK	A	23.38	BOTTOM	10	1:1	0.345	28.0	
793	23330	LTE 14	QPSK	A	21.45	REAR	5	1:1	0.600	23.7	23.7
793	23330	LTE 14	QPSK	A	21.45	FRONT	5	1:1	0.370	25.8	
793	23330	LTE 14	QPSK	A	21.45	RIGHT	10	1:1	0.260	27.3	
793	23330	LTE 14	QPSK	A	21.45	BOTTOM	10	1:1	0.199	28.5	
1 905	26590	LTE 25	QPSK	B	18.14	REAR	5	1:1	0.454	21.6	21.6
1 905	26590	LTE 25	QPSK	B	18.14	FRONT	5	1:1	0.249	24.2	
1 905	26590	LTE 25	QPSK	B	18.14	LEFT	10	1:1	0.071	29.6	
1 905	26590	LTE 25	QPSK	B	18.14	BOTTOM	10	1:1	0.224	24.6	
1 860	26140	LTE 25	QPSK	F	17.96	REAR	5	1:1	0.502	21.0	21.0
1 860	26140	LTE 25	QPSK	F	17.96	FRONT	5	1:1	0.289	23.4	
1 860	26140	LTE 25	QPSK	F	17.96	LEFT	10	1:1	0.073	29.3	
1 860	26140	LTE 25	QPSK	F	17.81	TOP	10	1:1	0.358	22.3	
831.5	26865	LTE 26	QPSK	A	21.25	REAR	5	1:1	0.578	23.6	23.6
831.5	26865	LTE 26	QPSK	A	21.30	FRONT	5	1:1	0.417	25.1	
831.5	26865	LTE 26	QPSK	A	21.30	RIGHT	10	1:1	0.112	30.8	
831.5	26865	LTE 26	QPSK	A	21.25	BOTTOM	10	1:1	0.205	28.1	
2 310	27710	LTE 30	QPSK	B	17.97	REAR	5	1:1	0.610	20.1	20.1
2 310	27710	LTE 30	QPSK	B	17.97	FRONT	5	1:1	0.349	22.5	
2 310	27710	LTE 30	QPSK	B	17.97	LEFT	10	1:1	0.077	29.1	
2 310	27710	LTE 30	QPSK	B	17.97	BOTTOM	10	1:1	0.280	23.5	
2 310	27710	LTE 30	QPSK	B	18.14	REAR	5	1:1	0.545	20.8	20.8
2 310	27710	LTE 30	QPSK	B	18.14	FRONT	5	1:1	0.319	23.1	
2 310	27710	LTE 30	QPSK	B	18.14	LEFT	10	1:1	0.077	29.3	
2 310	27710	LTE 30	QPSK	B	18.14	TOP	10	1:1	0.240	24.3	
2 549.5	40185	LTE 41	QPSK	B	18.34	REAR	5	1:1.58	0.577	20.7	20.7
2 549.5	40185	LTE 41	QPSK	B	18.31	FRONT	5	1:1.58	0.426	22.0	
2 549.5	40185	LTE 41	QPSK	B	18.31	LEFT	10	1:1.58	0.070	29.9	
2 549.5	40185	LTE 41	QPSK	B	18.34	BOTTOM	10	1:1.58	0.347	22.9	

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
3 690	56640	LTE 48	QPSK	G	15.09	REAR	5	1:1.58	0.213	21.8	21.4
3 690	56640	LTE 48	QPSK	G	15.09	FRONT	5	1:1.58	0.132	23.9	
3 690	56640	LTE 48	QPSK	G	15.09	LEFT	10	1:1.58	0.236	21.4	
3 690	56640	LTE 48	QPSK	G	15.09	TOP	10	1:1.58	0.074	26.4	
1 745	132322	LTE 66	QPSK	B	17.76	REAR	5	1:1	0.317	22.7	22.7
1 745	132322	LTE 66	QPSK	B	17.98	FRONT	5	1:1	0.239	24.2	
1 745	132322	LTE 66	QPSK	B	17.98	LEFT	10	1:1	0.071	29.5	
1 745	132322	LTE 66	QPSK	B	17.76	BOTTOM	10	1:1	0.221	24.3	
1 745	132322	LTE 66	QPSK	F	17.42	REAR	5	1:01	0.610	19.6	19.6
1 745	132322	LTE 66	QPSK	F	17.42	FRONT	5	1:01	0.422	21.2	
1 745	132322	LTE 66	QPSK	F	17.42	LEFT	10	1:01	0.055	30.0	
1 745	132322	LTE 66	QPSK	F	17.42	TOP	10	1:01	0.392	21.5	
680.5	133297	LTE 71	QPSK	A	22.77	REAR	5	1:1	0.383	26.8	26.8
680.5	133297	LTE 71	QPSK	A	22.77	FRONT	5	1:1	0.221	29.3	
680.5	133297	LTE 71	QPSK	A	22.77	RIGHT	10	1:1	0.187	30.1	
680.5	133297	LTE 71	QPSK	A	22.77	BOTTOM	10	1:1	0.188	30.0	

Table A-11 RSI = 0 *PLimit* Calculations – NR Hotspot SAR

For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.
NR TDD Bands : In the case of the NR TDD bands, the *PLimit* were calculated as the Frame average power to which the duty factor was applied to the burst power.0
SAR measurements of all NR TDD bands were measured in FTM Mode.

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
836.5	167300	NR n5	DFT-S QPSK	A	21.36	REAR	5	1:1	0.607	23.5	23.5
836.5	167300	NR n5	DFT-S QPSK	A	21.38	FRONT	5	1:1	0.344	26.0	
836.5	167300	NR n5	DFT-S QPSK	A	21.36	RIGHT	10	1:1	0.099	31.4	
836.5	167300	NR n5	DFT-S QPSK	A	21.38	BOTTOM	10	1:1	0.213	28.1	
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	REAR	5	1:1	0.400	21.9	21.9
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	FRONT	5	1:1	0.204	24.9	
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	LEFT	10	1:1	0.063	30.0	
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	BOTTOM	10	1:1	0.239	24.2	
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	REAR	5	1:1	0.518	20.9	20.9
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	FRONT	5	1:1	0.330	22.9	
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	LEFT	10	1:1	0.0521	30.9	
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	TOP	10	1:1	0.349	22.6	
2 310	462000	NR n30	CP QPSK	B	17.77	REAR	5	1:1	0.496	20.8	20.8
2 310	462000	NR n30	DFT-S QPSK	B	17.82	FRONT	5	1:1	0.270	23.5	
2 310	462000	NR n30	DFT-S QPSK	B	17.86	LEFT	10	1:1	0.106	27.6	
2 310	462000	NR n30	DFT-S QPSK	B	17.82	BOTTOM	10	1:1	0.209	24.6	
2 310	462000	NR n30	DFT-S QPSK	F	18.04	REAR	5	1:1	0.571	20.5	20.5
2 310	462000	NR n30	DFT-S QPSK	F	18.04	FRONT	5	1:1	0.307	23.2	
2 310	462000	NR n30	DFT-S QPSK	F	18.04	LEFT	10	1:1	0.029	33.4	
2 310	462000	NR n30	DFT-S QPSK	F	18.02	TOP	10	1:1	0.357	22.5	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	REAR	5	1:1	0.685	19.7	19.7
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	FRONT	5	1:1	0.314	23.1	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	LEFT	10	1:1	0.062	30.1	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	BOTTOM	10	1:1	0.355	22.5	
3 570	638000	NR n48	DFT-S QPSK	G	15.09	REAR	5	1:1	0.362	19.5	19.5
3 570	638000	NR n48	DFT-S QPSK	G	15.09	FRONT	5	1:1	0.232	21.4	
3 570	638000	NR n48	DFT-S QPSK	G	15.09	LEFT	10	1:1	0.293	20.4	
3 570	638000	NR n48	DFT-S QPSK	G	15.04	TOP	10	1:1	0.092	25.4	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	REAR	5	1:1	0.102	25.7	25.7
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	FRONT	5	1:1	0.054	28.5	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	LEFT	10	1:1	0.008	36.8	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	BOTTOM	10	1:1	0.096	26.0	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	REAR	5	1:1	0.450	19.1	19.1
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	FRONT	5	1:1	0.004	39.6	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	RIGHT	10	1:1	0.000	N/A	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	TOP	10	1:1	0.012	34.8	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	REAR	5	1:1	0.086	26.4	26.4
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	FRONT	5	1:1	0.006	38.0	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	LEFT	10	1:1	0.000	N/A	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	TOP	10	1:1	0.008	36.8	

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	Plimit	Minimum Plimit
1 745	349000	NR n66	DFT-S QPSK	B	18.00	REAR	5	1:1	0.322	22.9	22.9
1 745	349000	NR n66	DFT-S QPSK	B	18.02	FRONT	5	1:1	0.198	25.1	
1 745	349000	NR n66	DFT-S QPSK	B	18.02	LEFT	10	1:1	0.069	29.6	
1 745	349000	NR n66	DFT-S QPSK	B	18.00	BOTTOM	10	1:1	0.224	24.5	
1 745	349000	NR n66	CP QPSK	F	17.37	REAR	5	1:1	0.624	19.4	19.4
1 745	349000	NR n66	DFT-S QPSK	F	17.98	FRONT	5	1:1	0.434	21.6	
1 745	349000	NR n66	DFT-S QPSK	F	17.99	LEFT	10	1:1	0.050	31.0	
1 745	349000	NR n66	DFT-S QPSK	F	17.98	TOP	10	1:1	0.397	22.0	
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	REAR	5	1:1	0.229	23.6	23.6
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	FRONT	5	1:1	0.198	24.2	
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	LEFT	10	1:1	0.043	30.9	
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	BOTTOM	10	1:1	0.189	24.4	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	REAR	5	1:1	0.587	19.3	19.3
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	FRONT	5	1:1	0.336	21.7	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	LEFT	10	1:1	0.039	31.1	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	TOP	10	1:1	0.288	22.4	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	REAR	5	1:1	0.416	26.3	26.3
680.5	136100	NR n71	DFT-S QPSK	A	22.48	FRONT	5	1:1	0.238	28.7	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	RIGHT	10	1:1	0.151	30.7	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	BOTTOM	10	1:1	0.141	31.0	
3 750	650000	NR n77	CP QPSK	G	15.06	REAR	5	1:1	0.635	17.0	17.0
3 750	650000	NR n77	DFT-S QPSK	G	15.16	FRONT	5	1:1	0.329	20.0	
3 750	650000	NR n77	DFT-S QPSK	G	15.16	LEFT	10	1:1	0.247	21.2	
3 750	650000	NR n77	DFT-S QPSK	G	15.16	TOP	10	1:1	0.117	24.5	
3 500.01	633334	NR n77	DFT-S QPSK	G	14.87	REAR	5	1:1	0.577	17.3	17.3
3 930	662000	NR n77	DFT-S QPSK	B	15.66	REAR	5	1:1	0.171	23.3	23.3
3 930	662000	NR n77	DFT-S QPSK	B	15.66	FRONT	5	1:1	0.055	28.3	
3 930	662000	NR n77	DFT-S QPSK	B	15.66	LEFT	10	1:1	0.007	37.2	
3 930	662000	NR n77	DFT-S QPSK	B	15.66	BOTTOM	10	1:1	0.043	29.3	
3 500.01	633334	NR n77	DFT-S QPSK	B	15.22	REAR	5	1:1	0.220	21.8	21.8
3 930	662000	NR n77	DFT-S QPSK	K	15.42	REAR	5	1:1	0.384	19.6	19.6
3 930	662000	NR n77	DFT-S QPSK	K	15.42	FRONT	5	1:1	0.0053	38.1	
3 930	662000	NR n77	DFT-S QPSK	K	15.42	RIGHT	10	1:1	0.0017	43.1	
3 930	662000	NR n77	DFT-S QPSK	K	15.42	TOP	10	1:1	0.030	30.6	
3 500.01	633334	NR n77	DFT-S QPSK	K	15.48	REAR	5	1:1	0.102	25.4	25.4
3 930	662000	NR n77	DFT-S QPSK	L	14.38	REAR	5	1:1	0.061	26.5	26.5
3 930	662000	NR n77	DFT-S QPSK	L	14.38	FRONT	5	1:1	0.012	33.6	
3 930	662000	NR n77	DFT-S QPSK	L	14.38	LEFT	10	1:1	0.000	N/A	
3 930	662000	NR n77	DFT-S QPSK	L	14.38	TOP	10	1:1	0.0098	34.5	
3 500.01	633334	NR n77	DFT-S QPSK	L	14.78	REAR	5	1:1	0.069	26.4	26.4

Table A-12 RSI = 0 *PLimit* Calculations – WLAN Hotspot SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 1g SAR(W/kg)	PLimit	Minimum PLimit
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	REAR	5	98.6	0.407	17.9	17.9
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	FRONT	5	98.6	0.355	18.5	
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	LEFT	10	98.6	0.214	20.7	
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	TOP	10	98.6	0.072	25.4	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	REAR	5	98.6	0.462	20.3	20.3
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	FRONT	5	98.6	0.362	21.4	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	LEFT	10	98.6	0.098	27.1	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	RIGHT	10	98.6	0.092	27.3	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	TOP	10	98.6	0.051	29.9	
5 775	155	UNII 3	802.11ac	G	11.88	REAR	5	87.2	0.239	17.1	17.1
5 775	155	UNII 3	802.11ac	G	11.88	FRONT	5	87.2	0.092	21.3	
5 775	155	UNII 3	802.11ac	G	11.88	LEFT	10	87.2	0.180	18.4	
5 775	155	UNII 3	802.11ac	G	11.88	TOP	10	87.2	0.028	26.4	
5 775	155	UNII 3	802.11ac	G+I	14.45	REAR	5	87.2	0.165	21.3	20.8
5 775	155	UNII 3	802.11ac	G+I	14.45	FRONT	5	87.2	0.139	22.1	
5 775	155	UNII 3	802.11ac	G+I	14.45	LEFT	10	87.2	0.186	20.8	
5 775	155	UNII 3	802.11ac	G+I	14.45	TOP	10	87.2	0.041	27.4	
2 402	0	BLUETOOTH	DH5	H	13.87	REAR	5	77.3	0.380	17.1	17.1
2 402	0	BLUETOOTH	DH5	H	13.87	FRONT	5	77.3	0.154	21.0	
2 402	0	BLUETOOTH	DH5	H	13.87	LEFT	10	77.3	0.119	22.1	
2 402	0	BLUETOOTH	DH5	H	13.87	TOP	10	77.3	0.020	29.9	
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	REAR	5	97.5	0.276	18.4	18.4
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	FRONT	5	97.5	0.165	20.6	
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	LEFT	10	97.5	0.128	21.7	
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	TOP	10	97.5	0.013	31.7	

Table A-13 RSI = 0 *PLimit* Calculations – 2G/3G Phablet SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 10g SAR(W/kg)	PLimit	Minimum PLimit
836.6	190	GSM 850	GPRS 4TX	A	20.99	RIGHT	0	1:2.07	0.192	32.1	28.9
836.6	190	GSM 850	GPRS 4TX	A	20.99	BOTTOM	0	1:2.07	0.409	28.9	
1 880	661	GSM 1900	GPRS 4TX	B	17.21	LEFT	0	1:2.07	0.163	29.1	23.7
1 880	661	GSM 1900	GPRS 4TX	B	17.21	BOTTOM	0	1:2.07	0.566	23.7	
1 880	9400	UMTS 2	RMC	B	17.68	LEFT	0	1:1	0.163	29.5	24.3
1 880	9400	UMTS 2	RMC	B	17.68	BOTTOM	0	1:1	0.549	24.3	
1 732.4	1412	UMTS 4	RMC	B	18.85	LEFT	0	1:1	0.156	30.9	25.1
1 732.4	1412	UMTS 4	RMC	B	18.85	BOTTOM	0	1:1	0.595	25.1	
836.6	4183	UMTS 5	RMC	A	21.36	RIGHT	0	1:1	0.314	30.4	28.0
836.6	4183	UMTS 5	RMC	A	21.36	BOTTOM	0	1:1	0.545	28.0	

Table A-14 RSI = 0 *PLimit* Calculations – 4G Phablet SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 10g SAR(W/kg)	PLimit	Minimum PLimit
2 560	21350	LTE 7	QPSK	B	18.26	LEFT	0	1:1	0.241	28.4	25.1
2 560	21350	LTE 7	QPSK	B	18.26	BOTTOM	0	1:1	0.518	25.1	
2 560	21350	LTE 7	QPSK	F	17.43	LEFT	0	1:1	0.169	29.1	22.8
2 560	21350	LTE 7	QPSK	F	17.43	TOP	0	1:1	0.721	22.8	
707.5	23095	LTE 12	QPSK	A	22.43	RIGHT	0	1:1	0.435	30.0	29.1
707.5	23095	LTE 12	QPSK	A	22.43	BOTTOM	0	1:1	0.542	29.1	
782	23230	LTE 13	QPSK	A	23.38	RIGHT	0	1:1	0.613	29.5	28.4
782	23230	LTE 13	QPSK	A	23.38	BOTTOM	0	1:1	0.784	28.4	
793	23330	LTE 14	QPSK	A	21.45	LEFT	0	1:1	0.352	30.0	27.7
793	23330	LTE 14	QPSK	A	21.45	BOTTOM	0	1:1	0.592	27.7	
1 905	26590	LTE 25	QPSK	B	18.14	LEFT	0	1:1	0.197	29.2	24.3
1 905	26590	LTE 25	QPSK	B	18.14	TOP	0	1:1	0.602	24.3	
1 860	26140	LTE 25	QPSK	F	17.96	RIGHT	0	1:1	0.179	29.4	22.8
1 860	26140	LTE 25	QPSK	F	17.81	BOTTOM	0	1:1	0.792	22.8	
831.5	26865	LTE 26	QPSK	A	21.30	LEFT	0	1:1	0.458	28.7	27.2
831.5	26865	LTE 26	QPSK	A	21.25	BOTTOM	0	1:1	0.642	27.2	
2 310	27710	LTE 30	QPSK	B	17.97	LEFT	0	1:1	0.233	28.3	25.0
2 310	27710	LTE 30	QPSK	B	17.97	BOTTOM	0	1:1	0.495	25.0	
2 310	27710	LTE 30	QPSK	F	18.14	LEFT	0	1:1	0.204	29.0	22.2
2 310	27710	LTE 30	QPSK	F	18.14	TOP	0	1:1	0.971	22.2	
2 549.5	40185	LTE 41	QPSK	B	18.31	RIGHT	0	1:1.58	0.236	28.6	24.4
2 549.5	40185	LTE 41	QPSK	B	18.34	BOTTOM	0	1:1.58	0.614	24.4	
3 690	56640	LTE 48	QPSK	G	15.09	LEFT	0	1:1.58	0.845	19.8	19.8
3 690	56640	LTE 48	QPSK	G	15.09	TOP	0	1:1.58	0.280	24.6	
1 745	132322	LTE 66	QPSK	B	17.98	LEFT	0	1:1	0.162	29.9	22.9
1 745	132322	LTE 66	QPSK	B	17.76	BOTTOM	0	1:1	0.766	22.9	
1 745	132322	LTE 66	QPSK	F	17.42	LEFT	0	1:1	0.176	28.9	23.0
1 745	132322	LTE 66	QPSK	F	17.42	TOP	0	1:1	0.684	23.0	
680.5	133297	LTE 71	QPSK	A	22.77	RIGHT	0	1:1	0.330	31.6	30.7
680.5	133297	LTE 71	QPSK	A	22.77	BOTTOM	0	1:1	0.399	30.7	

Table A-14 RSI = 0 *PLimit* Calculations – NR Phablet SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 10g SAR(W/kg)	Plimit	Minimum Plimit
836.5	167300	NR n5	DFT-S QPSK	A	21.36	RIGHT	0	1:1	0.343	30.0	28.0
836.5	167300	NR n5	DFT-S QPSK	A	21.38	BOTTOM	0	1:1	0.544	28.0	
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	LEFT	0	1:1	0.194	29.1	24.5
1 882.5	376500	NR n25	DFT-S QPSK	B	17.97	BOTTOM	0	1:1	0.558	24.5	
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	LEFT	0	1:1	0.189	29.3	22.7
1 882.5	376500	NR n25	DFT-S QPSK	F	18.07	TOP	0	1:1	0.869	22.7	
2 310	462000	NR n30	DFT-S QPSK	B	17.86	LEFT	0	1:1	0.228	28.3	24.9
2 310	462000	NR n30	DFT-S QPSK	B	17.82	BOTTOM	0	1:1	0.491	24.9	
2 310	462000	NR n30	DFT-S QPSK	F	18.04	LEFT	0	1:1	0.181	29.4	21.9
2 310	462000	NR n30	DFT-S QPSK	F	18.02	TOP	0	1:1	1.030	21.9	
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	LEFT	0	1:1	0.252	28.0	24.3
2 592.99	518598	NR n41	DFT-S QPSK	B	18.02	BOTTOM	0	1:1	0.588	24.3	
3 570	638000	NR n48	DFT-S QPSK	G	15.09	LEFT	0	1:1	1.060	18.8	18.8
3 570	638000	NR n48	DFT-S QPSK	G	15.04	TOP	0	1:1	0.270	24.7	
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	LEFT	0	1:1	0.028	35.3	23.7
3 679.98	645332	NR n48	DFT-S QPSK	B	15.82	BOTTOM	0	1:1	0.404	23.7	
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	RIGHT	0	1:1	0.011	39.2	34.2
3 679.98	645332	NR n48	DFT-S QPSK	K	15.62	TOP	0	1:1	0.035	34.2	
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	LEFT	0	1:1	0.010	39.8	34.6
3 679.98	645332	NR n48	DFT-S QPSK	L	15.79	TOP	0	1:1	0.033	34.6	
1 745	349000	NR n66	DFT-S QPSK	B	18.02	LEFT	0	1:1	0.194	29.1	24.3
1 745	349000	NR n66	DFT-S QPSK	B	18.00	BOTTOM	0	1:1	0.589	24.3	
1 745	349000	NR n66	DFT-S QPSK	F	17.99	LEFT	0	1:1	0.159	30.0	23.8
1 745	349000	NR n66	DFT-S QPSK	F	17.98	TOP	0	1:1	0.659	23.8	
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	LEFT	0	1:1	0.112	30.7	25.2
1 702.5	340500	NR n70	DFT-S QPSK	B	17.20	BOTTOM	0	1:1	0.394	25.2	
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	LEFT	0	1:1	0.151	29.2	22.9
1 702.5	340500	NR n70	DFT-S QPSK	F	16.98	TOP	0	1:1	0.634	22.9	
680.5	136100	NR n71	DFT-S QPSK	A	22.48	RIGHT	0	1:1	0.326	31.3	29.8
680.5	136100	NR n71	DFT-S QPSK	A	22.48	BOTTOM	0	1:1	0.466	29.8	
3 750	650000	NR n77	DFT-S QPSK	G	15.16	LEFT	0	1:1	1.100	18.7	18.7
3 750	650000	NR n77	DFT-S QPSK	G	15.16	TOP	0	1:1	0.316	24.1	
3 500.01	633334	NR n77	DFT-S QPSK	G	14.87	LEFT	0	1:1	0.917	19.2	19.2
3 500.01	633334	NR n77	DFT-S QPSK	G	14.87	TOP	0	1:1	0.247	24.9	
3 930	662000	NR n77	DFT-S QPSK	B	15.66	LEFT	0	1:1	0.031	34.7	27.7
3 930	662000	NR n77	DFT-S QPSK	B	15.66	BOTTOM	0	1:1	0.157	27.7	
3 500.01	633334	NR n77	DFT-S QPSK	B	15.22	LEFT	0	1:1	0.013	38.1	26.0
3 500.01	633334	NR n77	DFT-S QPSK	B	15.22	BOTTOM	0	1:1	0.209	26.0	
3 930	662000	NR n77	DFT-S QPSK	K	15.42	RIGHT	0	1:1	0.021	36.2	30.1
3 930	662000	NR n77	DFT-S QPSK	K	15.42	TOP	0	1:1	0.085	30.1	
3 500.01	633334	NR n77	DFT-S QPSK	K	15.48	RIGHT	0	1:1	0.009	39.9	35.5
3 500.01	633334	NR n77	DFT-S QPSK	K	15.48	TOP	0	1:1	0.025	35.5	
3 930	662000	NR n77	DFT-S QPSK	L	14.38	LEFT	0	1:1	0.010	38.4	33.7
3 930	662000	NR n77	DFT-S QPSK	L	14.38	TOP	0	1:1	0.029	33.7	
3 500.01	633334	NR n77	DFT-S QPSK	L	14.78	LEFT	0	1:1	0.016	36.7	33.7
3 500.01	633334	NR n77	DFT-S QPSK	L	14.78	TOP	0	1:1	0.032	33.7	

Table A-15 RSI = 0 *PLimit* Calculations – WLAN Phablet SAR

Freq.(MHz)	Ch.	Band	Mode	Ant.	Frame Avg. Meas. Power(dBm)	Test Position	Distance (mm)	Duty Cycle	Meas. 10g SAR(W/kg)	Plimit	Minimum Plimit
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	LEFT	0	98.6	0.733	19.3	19.3
2 412	1	2.4GHZ WLAN SISO	802.11b	H	14.99	TOP	0	98.6	0.108	27.7	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	LEFT	0	98.6	0.653	22.8	22.8
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	RIGHT	0	98.6	0.226	27.4	
2 412	1	2.4GHZ WLAN MIMO	802.11b	H+J	17.94	TOP	0	98.6	0.102	30.9	
5 270	54	UNII 2A	802.11n	G	10.54	LEFT	0	85.9	0.368	17.9	17.9
5 270	54	UNII 2A	802.11n	G	10.54	TOP	0	85.9	0.043	27.2	
5 270	54	UNII 2A	802.11n	G+I	13.51	LEFT	0	85.9	0.438	20.1	20.1
5 270	54	UNII 2A	802.11n	G+I	13.51	TOP	0	85.9	0.045	30.0	
5 690	138	UNII 2C	802.11ac	G	11.91	LEFT	0	87.2	0.669	16.7	16.7
5 690	138	UNII 2C	802.11ac	G	11.91	TOP	0	87.2	0.134	23.6	
5 690	138	UNII 2C	802.11ac	G+I	14.53	LEFT	0	87.2	0.496	20.6	20.6
5 690	138	UNII 2C	802.11ac	G+I	14.53	TOP	0	87.2	0.087	28.1	
5 775	155	UNII 3	802.11ac	G	11.88	LEFT	0	87.2	0.347	19.5	19.5
5 775	155	UNII 3	802.11ac	G	11.88	TOP	0	87.2	0.082	25.8	
5 775	155	UNII 3	802.11ac	G+I	14.45	LEFT	0	87.2	0.456	20.9	20.9
5 775	155	UNII 3	802.11ac	G+I	14.45	TOP	0	87.2	0.081	28.4	
5 855	171	UNII 4	802.11ac	G	11.42	LEFT	0	87.2	0.402	18.4	18.4
5 855	171	UNII 4	802.11ac	G	11.42	TOP	0	87.2	0.030	29.7	
5 855	171	UNII 4	802.11ac	G+I	14.59	LEFT	0	87.2	0.508	20.5	20.5
5 855	171	UNII 4	802.11ac	G+I	14.59	TOP	0	87.2	0.055	30.2	
2 402	0	BLUETOOTH	DH5	H	13.87	LEFT	0	77.3	0.345	21.5	21.5
2 402	0	BLUETOOTH	DH5	H	13.87	TOP	0	77.3	0.099	26.9	
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	LEFT	0	97.5	0.572	19.2	19.2
2 440	17	BLUETOOTH LE	LE 1M(193)	H	13.77	TOP	0	97.5	0.083	27.6	