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SAR CHAR REPORT

Applicant Name: **SAMSUNG Electronics Co., Ltd.** 129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677 Rep. of Korea	**Date of Issue: May 25, 2023** **Test Report No.: HCT-SR-2305-FC017** **Test Site: HCT CO., LTD.**

FCC ID: **A3LSMM346B**

Report Type:	**Part 0 SAR Characterization**
Equipment Type:	**Mobile Phone**
Model Name:	**SM-M346B/DS**

This device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in FCC KDB procedures and had been tested in accordance with the measurement procedures specified in FCC KDB procedures.

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.

Tested By

Byeong-Chul, Yoon
Test Engineer
SAR Team
Certification Division

Reviewed By

Yun-jeang, Heo
Technical Manager
SAR Team
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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	May 25, 2023	Initial Release

This test results were applied only to the test methods required by the standard.

Table of Contents

1. Test Location

1.1 Test Laboratory

Company Name	HCT Co., Ltd.
Address	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 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)

2. DEVICE UNDER TEST

2.1 General Information of the DUT

Device Wireless specification overview		
Band & Mode	**Operating Mode**	**Tx Frequency**
GSM/GPRS/EDGE 850	Voice / Data	824.2 ㎒ ~ 848.8 ㎒
GSM/GPRS/EDGE 1900	Voice / Data	1 850.2 ㎒ ~ 1 909.8 ㎒
UMTS Band 5	Voice / Data	826.4 ㎒ ~ 846.6 ㎒
UMTS Band 4	Voice / Data	1 712.4 ㎒ ~ 1 752.6 ㎒
UMTS Band 2	Voice / Data	1 852.4 ㎒ ~ 1 907.6 ㎒
LTE Band 2 (PCS)	Voice / Data	1 850.7 ㎒ ~ 1 909.3 ㎒
LTE Band 4 (AWS)	Voice / Data	1 710.7 ㎒ ~ 1 754.3 ㎒
LTE Band 5 (Cell)	Voice / Data	824.7 ㎒ ~ 848.3 ㎒
LTE Band 12	Voice / Data	699.7 ㎒ ~ 715.3 ㎒
LTE Band 17	Voice / Data	706.5 ㎒ ~ 713.5 ㎒
LTE Band 26	Voice / Data	814.7 ㎒ ~ 848.3 ㎒
LTE Band 41	Voice / Data	2 498.5 ㎒ ~ 2 687.5 ㎒
LTE Band 66 (AWS)	Voice / Data	1 710.7 ㎒ ~ 1 779.3 ㎒
NR Band n5	Voice / Data	826.5 ㎒ ~ 846.5 ㎒
NR Band n41	Voice / Data	2 501.01 ㎒ ~ 2 685 ㎒
NR Band n66	Voice / Data	1 712.5 ㎒ ~ 1 777.5 ㎒
U-NII-1	Voice / Data	5 180 ㎒ ~ 5 240 ㎒
U-NII-2A	Voice / Data	5 260 ㎒ ~ 5 320 ㎒
U-NII-2C	Voice / Data	5 500 ㎒ ~ 5 720 ㎒
U-NII-3	Voice / Data	5 745 ㎒ ~ 5 825 ㎒
2.4 ㎓ WLAN	Voice / Data	2 412 ㎒ ~ 2 472 ㎒
Bluetooth /LE 5.3	Data	2 402 ㎒ ~ 2 480 ㎒
NFC	Data	13.56 ㎒

2.2 Introduction of SAR compliance test with TAS algorithm

FCC RF exposure limit is based on time –averaged RF exposure. Both SAR regulatory specifications are 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 test report shows SAR characterization of sub 6 GHz. The characterization is achieved by determination of Plimit.

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 2G/3G communication mode and WLAN/BT mode are not controlled by The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm.
In the wireless mode of 2G/3G, the output power is not dynamically controlled by the TAS algorithm, but the static Plimit output is applied to comply with the SAR_Target specified by the manufacturer.

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

The compliance test under the static transmission scenario and simultaneous transmission analysis are reporte d in SAR report for Sub 6GHz. 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 TAS Validation report

Term	Description
Plimit	The Time-averaged RF power that corresponds to SAR_target.
Pmax	Maximum Tx power tha can be transmitted physically from RFIC for a given RAT.
SAR_target	Target SAR level used in TAS algorithm. This SAR value should be less than FCC limit and should be determined after accounting for all uncertainties and other design considerations.
SAR_FCC_Limit	SAR Limit specified by FCC 1.6 W/kg averaged over 1g , for head and body exposure, and 4W/kg averaged over 10g, for Phablet SAR.
SAR Characterization	Characterization of SAR value for Sub 6 technology..

3. SAR MEASUREMENTS

3.1 SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (d*W*) absorbed by (dissipated in) an incremental mass (d*m*) contained in a volume element (d*V*) of a given density (*r*). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body

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

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/㎥)
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) (Δxarea, Δyarea)	Maximum Zoom Scan Resolution (mm) (Δxzoom, Δyzoom)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			Δzzoom(n)	Δzzoom(1)*	Δzzoom(n>1)*	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5*Δzzoom(n-1)	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5*Δzzoom(n-1)	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5*Δzzoom(n-1)	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5*Δzzoom(n-1)	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5*Δzzoom(n-1)	≥22

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

4. SAR CHACTERIZATION.

It should be confirmed that Plimit and SAR_target applied by OEM to device in SAR characterization satisfy within the uncertainty of device through SAR measurement.

4.1 Design target for TAS

SAR_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.

SAR_target			
$SAR\_target < FCC\_SAR\_limit \times 10^{-Total\ Uncertainty/10}$			
1g SAR (W/kg)		**10g SAR (W/kg)**	
Total Uncertainty	1.0 dB	Total Uncertainty	1.0 dB
FCC_SAR_limit	1.6 W/kg	FCC_SAR_limit	4.0 W/kg
SAR_target	1.0 W/kg	SAR_target	2.5 W/kg

This device use differennt Radio SAR Index[RSI] to configure different Plimit based on certan exposure configurations for each 2G/3G/4G/5G wireless mode

Radio SAR Indicator (RSI)	Configuration
0	1.Body Worn SAR 2. Phablet SAR measured at Maximum Power 3. Phablet SAR measured at 12 and 11 mm spacing for back, bottom respectively 4. Phablet SAR measured at 0 mm for Front,Top,Left and Right surfaces
1	Head SAR conditions in wireless mode.
2	Hotspot SAR conditions in wireless mode. at 10 mm
3&4	Phablet SAR condition in which the grip sensor in the wireless mode is activated at 0 mm for back and bottom surfaces. Ear jack inseted mode.

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_target.

4G/5G Plimit For S.LSI TAS Algorithm								Pmax Maximum Tune-up Output Power
SAR Exposure Configuration			Body Worn SAR Max Power FREE	Phablet SAR Max Power FREE	Phablet SAR Grip ON Ear-jack	Head SAR RCV-ON	Hotspot SAR	
			15 mm	12, 11, and 0 mm	0 mm	0 mm	10 mm	
Averaging volume			1g	10g	10g	1g	1g	[dBm]
Mode	Band	Antenna	RSI=0		RSI=3,4	RSI=1	RSI=2	
LTE FDD	2	Main 2	20.5		20.5	20.5	20.5	23.5
LTE FDD	2	Main 3	20.5		20.5	20.5	20.5	23.5
LTE FDD	5	Main 1	28.9		28.9	31.7	26.8	24.3
LTE FDD	12(17)	Main 1	29.0		29.0	35.3	29.8	24.0
LTE FDD	26	Main 1	28.6		28.6	32.0	26.9	24.0
LTE TDD	41	Main 2	26.3		18.0	32.6	18.0	21.5*
LTE FDD	66(4)	Main 2	20.0		20.0	20.0	20.0	23.5
LTE FDD	66	Main 3	20.0		20.0	20.0	20.0	23.5
NR FDD	n5	Main 1	28.7		28.7	31.5	27.3	23.5
NR FDD	n66	Main 2	19.5		19.5	19.5	19.5	23.5
NR TDD	n41	Main 2	19.0		19.0	19.0	19.0	23.0
NR TDD	n41	Sub 5	22.4		22.4	23.6	23.3	19.0
NR TDD	n41	Sub 4	29.8		29.8	49.7	36.7	19.0
NR TDD	n41	Sub 1	22.3		22.3	18.5	23.0	17.0

Note :
1. Radio SAR indicator (RSI) in the table above means the SAR test configuration of each mobile communication technology.
2. The GSM/UMTS mode and WLAN/BT mode are not controlled by The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm.
2. Plimit and Tune up output power Pmax in above table correspond to average power level after accounting for duty cycle in the case of TDD Modulation schemes (LTE TDD)
3. Maximum tune up output Power Pmax is used to configure DUT during RF tune up procedure. The maximum allowed output power is equal to Tune up power +1 dB device design uncertainty.
4. Compared with the Plimit (Tune up Powers) declared in each RSI by the manufacturer and the Plimit (calculation) calculated by the SAR measurement of each RSI, the lower power is applied to the DUT as the Plimit at each RSI configurations.
5. when Hotspot Mode (RSI=2), Grip sensor (RSI=4) and Ear-jack mode(RSI=3) are triggered at the same time, RSI =2(Hotspot) takes higher priority. The Priority for power reduction was given in the order of hotspot(RSI=2), ear-jack.(RSI=3), and grip (RSI=4).

5. SAR Test Equipment

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
Staubli	CS8Cspeag-TX90	F13/5R4XF1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F13/5SD0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90L	F07/55B8A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/ 5K3RA1/ C/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5SD0A1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/55B8A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/56W9A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F11/ 5K3RA1/ A/ 01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick) D21142605	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick) D21142605	001729	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick) D21139902	S-0306	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick) D21142102	S-0602	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick) D21142603	S-1203 0309	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40332651310	12/29/2022	Annual	12/29/2023
TESTO	608-H1/Thermometer	83348029	03/27/2023	Annual	03/27/2024
TESTO	608-H1/Thermometer	83348021	03/27/2023	Annual	03/27/2024
TESTO	608-H1/Thermometer	83406789	07/07/2022	Annual	07/07/2023
TESTO	175-H1/Thermometer	40331936309	12/29/2022	Annual	12/29/2023
SPEAG	DAE4	1750	10/10/2022	Annual	10/10/2023
SPEAG	DAE4	1464	06/15/2022	Annual	06/15/2023
SPEAG	DAE4	1422	08/18/2022	Annual	08/18/2023
SPEAG	DAE4	1629	08/17/2022	Annual	08/17/2023
SPEAG	DAE4	869	03/23/2023	Annual	03/23/2024
SPEAG	DAE4	1225	03/06/2023	Annual	03/06/2024
SPEAG	E-Field Probe EX3DV4	7655	06/20/2022	Annual	06/20/2023
SPEAG	E-Field Probe EX3DV4	7732	06/30/2022	Annual	06/30/2023
SPEAG	E-Field Probe ES3DV3	3076	07/20/2022	Annual	07/20/2023
SPEAG	E-Field Probe EX3DV4	3768	06/30/2022	Annual	06/30/2023
SPEAG	E-Field Probe EX3DV4	7679	08/19/2022	Annual	08/19/2023
SPEAG	E-Field Probe EX3DV4	7751	10/07/2022	Annual	10/07/2023
SPEAG	CLA13	1016	11/16/2022	Annual	11/16/2023
SPEAG	Dipole D750V3	1014	05/25/2022	Annual	05/25/2023
SPEAG	Dipole D835V2	441	07/15/2022	Annual	07/15/2023
SPEAG	Dipole D1800V2	2d007	07/18/2022	Annual	07/18/2023
SPEAG	Dipole D1900V2	5d061	01/23/2023	Annual	01/23/2024
SPEAG	Dipole D2450V2	743	05/31/2022	Annual	05/31/2023
SPEAG	Dipole D2600V2	1015	07/15/2022	Annual	07/15/2023
SPEAG	Dipole D5GHzV2	1253	05/31/2022	Annual	05/31/2023
Agilent	Power Meter E4419B	MY41291386	09/27/2022	Annual	09/27/2023
Agilent	Power Meter N1911A	MY45101406	06/27/2022	Annual	06/27/2023
Agilent	Power Sensor 8481A	SG1091286	09/27/2022	Annual	09/27/2023
H.P	Power Sensor 8481A	MY41090873	01/27/2023	Annual	01/27/2024
Agilent	Power Sensor 8481A	MY41090675	09/27/2022	Annual	09/27/2023
Agilent	Wideband Power Sensor N1921A	MY55220026	08/02/2022	Annual	08/02/2023
Agilent	11636B/Power Divider	58698	01/26/2023	Annual	01/26/2024
SPEAG	DAKS 3.5	1038	01/25/2023	Annual	01/25/2024
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/27/2022	Annual	09/27/2023
R&S	Wireless Communication Test Set CMW500	115733	03/23/2023	Annual	03/23/2024
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/23/2023	Annual	03/23/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
EMPOWER	RF Power Amplifier	1084	06/20/2022	Annual	06/20/2023
EMPOWER	RF Power Amplifier	1041D/C0508	06/20/2022	Annual	06/20/2023
MICRO LAB	LP Filter / LA-15N	10453	09/27/2022	Annual	09/27/2023
MICRO LAB	LP Filter / LA-30N	-	09/27/2022	Annual	09/27/2023
MICRO LAB	LP Filter / LA-60N	32011	09/27/2022	Annual	09/27/2023
Agilent	Attenuator (3dB) 8693B	MY39260298	08/25/2022	Annual	08/25/2023
HP	Attenuator (3dB) 33340A	02427	08/25/2022	Annual	08/25/2023
Agilent	Attenuator (30dB) 8491A	52151	06/17/2022	Annual	06/17/2023
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024
OSI	Power Divider	#3	06/17/2022	Annual	06/17/2023
HP	Dual Directional Coupler	16072	09/27/2022	Annual	09/27/2023
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/08/2022	Annual	12/08/2023
Anritsu	Radio Communication Tester MT8820C	6201074225	01/25/2023	Annual	01/25/2024
Anritsu	Radio Communication Tester MT8820C	6200695605	03/23/2023	Annual	03/23/2024
Anritsu	Radio Communication Tester MT8821C	6201502997	06/27/2022	Annual	06/27/2023
Anritsu	Radio Communication Tester MT8821C	6262044720	12/07/2022	Annual	12/07/2023
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	06/27/2022	Annual	06/27/2023
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/25/2023	Annual	01/25/2024

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 P limit CALCULATIONS.

Table A-1 RSI = 1 4G Head SAR

MEASUREMENT RESULTS														
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Left Cheek	0	50	25	1:1	0.051	32.9	32.9
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Left Tilt	0	50	25	1:1	0.035	34.6	
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Right Cheek	0	50	25	1:1	0.040	34.0	
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Right Tilt	0	50	25	1:1	0.028	35.5	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Left Cheek	0	50	25	1:1	0.139	29.4	25.6
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Left Tilt	0	50	25	1:1	0.073	32.2	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Right Cheek	0	50	25	1:1	0.340	25.6	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Right Tilt	0	50	25	1:1	0.146	29.2	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Left Cheek	0	1	0	1:1	0.122	33.0	31.7
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Left Tilt	0	1	0	1:1	0.054	36.6	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Right Cheek	0	1	0	1:1	0.166	31.7	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Right Tilt	0	1	0	1:1	0.075	35.1	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Left Cheek	0	1	24	1:1	0.062	35.7	35.3
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Left Tilt	0	1	24	1:1	0.031	38.7	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Right Cheek	0	1	24	1:1	0.068	35.3	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Right Tilt	0	1	24	1:1	0.037	37.9	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Left Cheek	0	1	0	1:1	0.104	33.3	32.0
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Left Tilt	0	1	0	1:1	0.053	36.3	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Right Cheek	0	1	0	1:1	0.141	32.0	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Right Tilt	0	1	0	1:1	0.066	35.3	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Left Cheek	0	1	0	1:1.58	0.079	32.6	32.6
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Left Tilt	0	1	0	1:1.58	0.027	37.2	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Right Cheek	0	1	0	1:1.58	0.045	35.0	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Right Tilt	0	1	0	1:1.58	0.064	33.5	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Left Cheek	0	1	99	1:1	0.057	32.9	32.9
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Left Tilt	0	1	99	1:1	0.036	34.9	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Right Cheek	0	1	99	1:1	0.040	34.5	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Right Tilt	0	1	99	1:1	0.028	36.0	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Left Cheek	0	50	25	1:1	0.105	30.5	25.7
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Left Tilt	0	50	25	1:1	0.068	32.3	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Right Cheek	0	50	25	1:1	0.311	25.7	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Right Tilt	0	50	25	1:1	0.136	29.3	

The Plimit of LTE TDD was written as Frame averaged power

Table A-2 RSI=1 – NR Head SAR
For some bands/modes, a lower *PLimit* was selected as a more conservative evaluation.

MEASUREMENT RESULTS																
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	M1	20	23.94	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.146	32.3	31.5
836.5	167300	NR Band n5	Mid	M1	20	23.94	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.070	35.5	
836.5	167300	NR Band n5	Mid	M1	20	23.94	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.175	31.5	
836.5	167300	NR Band n5	Mid	M1	20	23.94	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.093	34.3	
2 592.99	518598	NR Band n41	Mid	M2	100	18.97	Left Cheek	DFT-s-OFDM QPSK	0	135	69	1:1	0.029	34.2	33.7
2 592.99	518598	NR Band n41	Mid	M2	100	18.97	Left Tilt	DFT-s-OFDM QPSK	0	135	69	1:1	0.015	37.2	
2 592.99	518598	NR Band n41	Mid	M2	100	18.97	Right Cheek	DFT-s-OFDM QPSK	0	135	69	1:1	0.034	33.7	
2 592.99	518598	NR Band n41	Mid	M2	100	18.97	Right Tilt	DFT-s-OFDM QPSK	0	135	69	1:1	0.028	34.5	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Left Cheek	CW	0	-	-	1:1	0.425	23.6	23.6
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Left Tilt	CW	0	-	-	1:1	0.431	23.6	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Right Cheek	CW	0	-	-	1:1	0.300	25.2	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Right Tilt	CW	0	-	-	1:1	0.339	24.6	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Left Cheek	CW	0	-	-	1:1	0	-	49.7
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Left Tilt	CW	0	-	-	1:1	0	-	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Right Cheek	CW	0	-	-	1:1	0	-	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Right Tilt	CW	0	-	-	1:1	0	-	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Left Cheek	CW	0	-	-	1:1	0.618	19.2	18.5
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Left Tilt	CW	0	-	-	1:1	0.721	18.5	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Right Cheek	CW	0	-	-	1:1	0.208	23.9	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Right Tilt	CW	0	-	-	1:1	0.267	22.8	
1 720.0	344000	NR Band n66	Low	M2	20	19.54	Left Cheek	DFT-s-OFDM QPSK	0	50	56	1:1	0.047	32.8	31.1
1 720.0	344000	NR Band n66	Low	M2	20	19.54	Left Tilt	DFT-s-OFDM QPSK	0	50	56	1:1	0.042	33.3	
1 720.0	344000	NR Band n66	Low	M2	20	19.54	Right Cheek	DFT-s-OFDM QPSK	0	50	56	1:1	0.070	31.1	
1 720.0	344000	NR Band n66	Low	M2	20	19.54	Right Tilt	DFT-s-OFDM QPSK	0	50	56	1:1	0.040	33.5	

Table A-3 RSI = 0 - 4G Body-Worn SAR

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

MEASUREMENT RESULTS																
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Back	15	0	50	25	1:1	0.112	29.5	29.5
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Front	15	0	50	25	1:1	0.073	31.4	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Back	15	0	50	25	1:1	0.212	27.6	27.6
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Front	15	0	50	25	1:1	0.059	33.2	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Back	15	0	1	0	1:1	0.198	30.9	30.9
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Front	15	0	1	0	1:1	0.132	32.7	
707.5	23095	LTE Band 12	Mid	M1	10	22.84	Back	15	1	25	0	1:1	0.126	31.8	31.8
707.5	23095	LTE Band 12	Mid	M1	10	22.84	Front	15	1	25	0	1:1	0.069	34.5	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Back	15	0	1	0	1:1	0.177	31.0	31.0
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Front	15	0	1	0	1:1	0.116	32.9	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Back	15	0	1	0	1:1.58	0.210	28.3	28.3
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Front	15	0	1	0	1:1.58	0.124	30.6	
1 745	132322	LTE Band 66	Mid	M2	20	20.49	Back	15	0	1	99	1:1	0.166	28.3	28.3
1 745	132322	LTE Band 66	Mid	M2	20	20.49	Front	15	0	1	99	1:1	0.086	31.1	
1 745	132322	LTE Band 66	Mid	M3	20	20.67	Back	15	0	50	25	1:1	0.144	29.1	29.1
1 745	132322	LTE Band 66	Mid	M3	20	20.67	Front	15	0	50	25	1:1	0.041	34.5	

The Plimit of LTE TDD was written as Frame averaged power

Table A-4 RSI = 0 - NR Body-Worn SAR

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

MEASUREMENT RESULTS																
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	M1	20	23.94	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.279	29.5	29.5
836.5	167300	NR Band n5	Mid	M1	20	23.94	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.154	32.1	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Back	DFT-s-OFDM QPSK	0	15	1	137	1:1	0.301	24.3	24.3
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Front	DFT-s-OFDM QPSK	0	15	1	137	1:1	0.121	28.2	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Back	CW	0	15	-	-	1:1	0.175	27.5	27.5
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Front	CW	0	15	-	-	1:1	0.038	34.1	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Back	CW	0	15	-	-	1:1	0.0031	44.9	44.9
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Front	CW	0	15	-	-	1:1	0	-	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Back	CW	0	15	-	-	1:1	0.113	26.6	26.6
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Front	CW	0	15	-	-	1:1	0.053	29.8	
1 720.0	344000	NR Band n66	Low	M2	20	19.54	Back	DFT-s-OFDM QPSK	0	15	50	56	1:1	0.129	28.4	28.4
1 720.0	344000	NR Band n66	Low	M2	20	19.54	Front	DFT-s-OFDM QPSK	0	15	50	56	1:1	0.099	29.6	

Table A-5 RSI = 2 – 4G Hotspot SAR

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

MEASUREMENT RESULTS															
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Back	10	0	50	25	1:1	0.219	26.6	23.0
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Front	10	0	50	25	1:1	0.093	30.3	
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Left	10	0	50	25	1:1	0.109	29.6	
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Bottom	10	0	50	25	1:1	0.503	23.0	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Back	10	0	50	25	1:1	0.445	24.4	24.4
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Front	10	0	50	25	1:1	0.099	30.9	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Left	10	0	50	25	1:1	0.265	26.6	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Top	10	0	50	25	1:1	0.060	33.1	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Back	10	0	1	0	1:1	0.510	26.8	26.8
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Front	10	0	1	0	1:1	0.127	32.8	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Left	10	0	1	0	1:1	0.107	33.6	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Right	10	0	1	0	1:1	0.222	30.4	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Bottom	10	0	1	0	1:1	0.210	30.7	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Back	10	0	1	24	1:1	0.240	29.8	29.8
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Front	10	0	1	24	1:1	0.067	35.3	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Left	10	0	1	24	1:1	0.045	37.1	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Right	10	0	1	24	1:1	0.095	33.8	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Bottom	10	0	1	24	1:1	0.077	34.7	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Back	10	0	1	0	1:1	0.459	26.9	26.9
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Front	10	0	1	0	1:1	0.114	33.0	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Left	10	0	1	0	1:1	0.091	33.9	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Right	10	0	1	0	1:1	0.176	31.1	
831.5	26865	LTE Band 26	Mid	M1	15	23.52	Bottom	10	0	1	0	1:1	0.161	31.5	
2 593.0	40620	LTE Band 41	Mid	M2	20	18.07	Back	10	0	50	0	1:1.58	0.201	25.0	25.0
2 593.0	40620	LTE Band 41	Mid	M2	20	18.07	Front	10	0	50	0	1:1.58	0.114	27.5	
2 593.0	40620	LTE Band 41	Mid	M2	20	18.07	Left	10	0	50	0	1:1.58	0.085	28.8	
2 593.0	40620	LTE Band 41	Mid	M2	20	18.07	Bottom	10	0	50	0	1:1.58	0.160	26.0	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Back	10	0	1	99	1:1	0.407	24.4	24.4
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Front	10	0	1	99	1:1	0.122	29.6	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Left	10	0	1	99	1:1	0.126	29.5	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Bottom	10	0	1	99	1:1	0.324	25.4	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Back	10	0	50	25	1:1	0.327	25.5	25.5
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Front	10	0	50	25	1:1	0.091	31.1	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Left	10	0	50	25	1:1	0.171	28.3	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Top	10	0	50	25	1:1	0.032	35.6	

The Plimit of LTE TDD was written as Frame averaged power

Table A-6 RSI = 2 – NR Hotspot SAR

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

MEASUREMENT RESULTS																
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	M1	20	23.76	Back	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.442	27.3	27.3
836.5	167300	NR Band n5	Mid	M1	20	23.76	Front	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.122	32.9	
836.5	167300	NR Band n5	Mid	M1	20	23.76	Left	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.103	33.6	
836.5	167300	NR Band n5	Mid	M1	20	23.76	Right	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.229	30.2	
836.5	167300	NR Band n5	Mid	M1	20	23.76	Bottom	DFT-s-OFDM QPSK	0	10	50	28	1:1	0.222	30.3	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Back	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.568	21.5	21.5
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Front	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.224	25.5	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Left	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.109	28.7	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Bottom	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.338	23.8	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Rear	CW	0	10	-	-	1:1	0.455	23.3	23.3
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Front	CW	0	10	-	-	1:1	0.072	31.4	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Top	CW	0	10	-	-	1:1	0.203	26.9	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Rear	CW	0	10	-	-	1:1	0.020	36.7	36.7
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Front	CW	0	10	-	-	1:1	0.00444	43.6	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Right	CW	0	10	-	-	1:1	0.00316	44.9	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Top	CW	0	10	-	-	1:1	0	-	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Rear	CW	0	10	-	-	1:1	0.254	23.0	23.0
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Front	CW	0	10	-	-	1:1	0.133	25.9	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Right	CW	0	10	-	-	1:1	0.033	31.9	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Top	CW	0	10	-	-	1:1	0.204	24.0	
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Back	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.307	24.7	24.7
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.150	27.8	
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Left	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.133	28.3	
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Bottom	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.201	26.5	

Table A-7 RSI = 0 – 4G Phablet SAR

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

MEASUREMENT RESULTS															
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Back	0	0	50	25	1:1	1.430	22.4	22.4
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Front	0	0	50	25	1:1	0.370	28.3	
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Left	0	0	50	25	1:1	0.080	35.0	
1 860.0	18700	LTE Band 2	Low	M2	20	20.01	Bottom	0	0	50	25	1:1	0.608	26.2	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Back	0	0	50	25	1:1	1.970	21.9	21.9
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Front	0	0	50	25	1:1	0.293	30.2	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Left	0	0	50	25	1:1	0.819	25.7	
1 880.0	18900	LTE Band 2	Mid	M3	20	20.88	Top	0	0	50	25	1:1	0.068	36.5	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Back	0	0	1	0	1:1	0.787	28.9	28.9
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Front	0	0	1	0	1:1	0.339	32.6	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Left	0	0	1	0	1:1	0.082	38.7	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Right	0	0	1	0	1:1	0.287	33.3	
836.5	20525	LTE Band 5	Mid	M1	10	23.88	Bottom	0	0	1	0	1:1	0.675	29.6	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Back	0	0	1	24	1:1	0.726	29.0	29.0
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Front	0	0	1	24	1:1	0.146	35.9	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Left	0	0	1	24	1:1	0.049	40.7	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Right	0	0	1	24	1:1	0.186	34.9	
707.5	23095	LTE Band 12	Mid	M1	10	23.61	Bottom	0	0	1	24	1:1	0.341	32.3	
831.5	26865	LTE Band 26	Mid	M1	10	23.52	Back	0	0	1	0	1:1	0.782	28.6	28.6
831.5	26865	LTE Band 26	Mid	M1	10	23.52	Front	0	0	1	0	1:1	0.332	32.3	
831.5	26865	LTE Band 26	Mid	M1	10	23.52	Left	0	0	1	0	1:1	0.072	38.9	
831.5	26865	LTE Band 26	Mid	M1	10	23.52	Right	0	0	1	0	1:1	0.300	32.7	
831.5	26865	LTE Band 26	Mid	M1	10	23.52	Bottom	0	0	1	0	1:1	0.647	29.4	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Back	12	0	1	0	1:1.58	0.176	33.1	26.3
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Front	0	0	1	0	1:1.58	0.837	26.3	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Left	0	0	1	0	1:1.58	0.444	29.0	
2 593.0	40620	LTE Band 41	Mid	M2	20	21.54	Bottom	11	0	1	0	1:1.58	0.204	32.4	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Back	0	0	1	99	1:1	1.550	22.6	22.6
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Front	0	0	1	99	1:1	0.513	27.4	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Left	0	0	1	99	1:1	0.413	28.3	
1 745.0	132322	LTE Band 66	Mid	M2	20	20.49	Bottom	0	0	1	99	1:1	0.789	25.5	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Back	0	0	50	25	1:1	0.161	32.6	26.5
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Front	0	0	50	25	1:1	0.255	30.6	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Left	0	0	50	25	1:1	0.653	26.5	
1 745.0	132322	LTE Band 66	Mid	M3	20	20.67	Top	0	0	50	25	1:1	0.049	37.7	

The Plimit of LTE TDD was written as Frame averaged power

Table A-8 RSI = 0 – NR Phablet SAR (Grip Sensor not activated)
For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

MEASUREMENT RESULTS																
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	M1	20	23.76	Back	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.806	28.7	28.7
836.5	167300	NR Band n5	Mid	M1	20	23.76	Front	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.336	32.5	
836.5	167300	NR Band n5	Mid	M1	20	23.76	Left	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.082	38.6	
836.5	167300	NR Band n5	Mid	M1	20	23.76	Right	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.324	32.6	
836.5	167300	NR Band n5	Mid	M1	20	23.76	Bottom	DFT-s-OFDM QPSK	0	0	50	28	1:1	0.630	29.7	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Back	DFT-s-OFDM QPSK	0	0	1	137	1:1	1.260	22.0	22.0
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Front	DFT-s-OFDM QPSK	0	0	1	137	1:1	0.396	27.1	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Left	DFT-s-OFDM QPSK	0	0	1	137	1:1	0.204	29.9	
2 592.99	518598	NR Band n41	Mid	M2	100	19.05	Bottom	DFT-s-OFDM QPSK	0	0	1	137	1:1	0.754	24.3	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Rear	CW	0	0	-	-	1:1	1.410	22.4	22.4
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Front	CW	0	0	-	-	1:1	0.313	29.0	
2 592.99	518598	NR n41 SRS	Mid	S5	100	19.93	Top	CW	0	0	-	-	1:1	0.736	25.2	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Rear	CW	0	0	-	-	1:1	0.241	29.8	29.8
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Front	CW	0	0	-	-	1:1	0.017	41.3	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Right	CW	0	0	-	-	1:1	0.066	35.5	
2 592.99	518598	NR n41 SRS	Mid	S4	100	19.67	Top	CW	0	0	-	-	1:1	0.000	-	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Rear	CW	0	0	-	-	1:1	0.500	24.1	22.3
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Front	CW	0	0	-	-	1:1	0.431	24.7	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Right	CW	0	0	-	-	1:1	0.170	28.8	
2 592.99	518598	NR n41 SRS	Mid	S1	100	17.09	Top	CW	0	0	-	-	1:1	0.748	22.3	
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Back	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.940	20.7	20.7
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.371	27.8	
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Left	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.317	28.5	
1 720.0	344000	NR Band n66	Low	M2	20	19.56	Bottom	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.696	25.1	

Table A-9 3 (Grip Sensor is on**) & 4(**Ear-jack is inserted**) –4G Phablet SAR**

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

MEASUREMENT RESULTS															
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				MHz	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
2 593.0	40620	LTE Band 41	Mid	M2	20	18.08	Back	0	0	1	0	1:1.58	0.679	23.7	23.7
2 593.0	40620	LTE Band 41	Mid	M2	20	18.08	Bottom	0	0	1	0	1:1.58	0.493	25.1	