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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: Oct. 05, 2023** **Test Report No.: HCT-SR-2309-FC005-R1** **Test Site: HCT CO., LTD.**

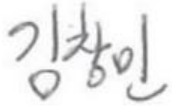
FCC ID: **A3LSMA256U**

Report Type:	**SAR Characterization**
Equipment Type:	**Mobile Phone**
Model Name:	**SM-A256U**
Additional Model Name:	**SM-A256U1/DS, SM-S256VL**

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



Chang-Min, Kim
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REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	Sep. 26, 2023	Initial Release
1	Oct. 05, 2023	Revised Sec 4.1, Appendix A

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**
GSM850	Voice / Data	824.2 MHz ~ 848.8 MHz
GSM1900	Voice / Data	1 850.2 MHz ~ 1 909.8 MHz
UMTS Band 5	Voice / Data	826.4 MHz ~ 846.6 MHz
UMTS Band 4	Voice / Data	1 712.4 MHz ~ 1 752.6 MHz
UMTS Band 2	Voice / Data	1 852.4 MHz ~ 1 907.6 MHz
LTE Band 2 (PCS)	Voice / Data	1 850.7 MHz ~ 1 909.3 MHz
LTE Band 4 (AWS)	Voice / Data	1 710.7 MHz ~ 1 754.3 MHz
LTE Band 5 (Cell)	Voice / Data	824.7 MHz ~ 848.3 MHz
LTE Band 7	Voice / Data	2 502.5 MHz ~ 2 567.5 MHz
LTE Band 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE Band 14	Voice / Data	790.5 MHz ~ 795.5 MHz
LTE Band 25	Voice / Data	1 850.7 MHz ~ 1 914.3 MHz
LTE Band 26	Voice / Data	814.7 MHz ~ 848.3 MHz
LTE 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 ~ 3697.5 MHz
LTE Band 66 (AWS)	Voice / Data	1 710.7 MHz ~ 1 779.3 MHz
LTE Band 71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR Band n2	Voice / Data	1 852.5 MHz ~ 1 907.5 MHz
NR Band n5	Voice / Data	826.5 MHz ~ 846.5 MHz
NR Band n25	Voice / Data	1 852.5 MHz ~ 1 912.5 MHz
NR Band n30	Voice / Data	2 307.5 MHz ~ 2 312.5 MHz
NR Band n41	Voice / Data	2 506.02 MHz ~ 2 679.99 MHz
NR Band n48	Voice / Data	3 555 MHz ~ 3 694.98 MHz
NR Band n66	Voice / Data	1 712.5 MHz ~ 1 777.5 MHz
NR Band n70	Voice / Data	1 695 MHz ~ 1 710 MHz
NR Band n71	Voice / Data	665.5 MHz ~ 695.5 MHz
NR Band n77	Voice / Data	3 705 MHz ~ 3 975 MHz
NR Band n77 (DoD)	Voice / Data	3 455.04 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
2.4 GHz WLAN	Voice / Data	2 412 MHz ~ 2 472 MHz
Bluetooth / LE 5.3	Data	2 402 MHz ~ 2 480 MHz
NFC	Data	13.56 MHz

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 WLAN/BT mode is not controlled by The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm.

SAR Characterization confirms that Plimit in the 2G/3G/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/m^3)
E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in 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.
1&2	Phablet / Ear jack SAR condition.
3	Hotspot SAR conditions in wireless mode. at 10 mm
4	Head SAR conditions in wireless 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.

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plim > Pmax					
Plimit corresponding to 1 W/kg (1g) 2.5W/kg(10g) SAR_Design_target							Pmax	
SAR Exposure Position			Body-worn	Head (RCV ON)	Hotspot (Hotspot on)	Phablet (Grip On) /Earjack	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]	UL:DL Ratio
Averaging volume			1g	1g	1g	10g		
seperation Distance			15 mm	0 mm	10 mm	0 mm		
Mode	Band	Antenna	RSI=0	RSI=4	RSI=3	RSI=1,2		
GSM/GPRS/EDGE	850	MAIN 1	27.4	29.4	20.7	20.7	24.7	37.5%
GSM/GPRS/EDGE	1900	MAIN 2	28.7	30.2	19.0	19.0	22.0	50.0%
UMTS	2	MAIN 2	27.4	28.0	20.5	20.5	24.0	100%
UMTS	4	MAIN 2	27.7	29.0	20.5	20.5	24.0	100%
UMTS	5	MAIN 1	29.6	29.9	24.9	27.2	24.5	100%
LTE FDD	2	MAIN 3	21.0	21.0	21.0	21.0	24.5	100%
LTE FDD	5	MAIN 1	28.5	29.5	26.7	28.6	24.5	100%
LTE FDD	7	MAIN 2	26.4	28.7	21.0	21.0	23.5	100%
LTE FDD	12	MAIN 1	30.7	32.8	31.3	28.4	24.5	100%
LTE FDD	13	MAIN 1	28.5	30.8	29.5	30.1	23.5	100%
LTE FDD	14	MAIN 1	29.7	31.0	28.1	30.6	23.5	100%
LTE FDD	25(2)	MAIN 2	28.4	30.2	21.5	21.5	24.0	100%
LTE FDD	26	MAIN 1	28.9	29.9	27.0	29.1	24.5	100%
LTE FDD	30	MAIN 2	29.1	30.0	21.0	21.0	23.0	100%
LTE TDD PC3	41(38)	MAIN 2	28.2	28.6	17.5	17.5	22.5	63.3%
LTE TDD PC3	41 ULCA	MAIN 2	27.8	28.5	17.5	17.5	21.5	63.3%
LTE TDD PC2	41	MAIN 2	27.7	28.9	17.9	17.9	22.4	43.3%
LTE TDD PC3	48	SUB 3	20.0	16.0	20.0	20.0	20.0	63.3%
LTE TDD PC3	48 ULCA	SUB 3	20.0	16.0	20.0	20.0	20.0	63.3%
LTE FDD	66(4)	MAIN 2	29.0	30.3	21.5	21.5	24.0	100%
LTE FDD	66(4)	MAIN 3	21.0	21.0	21.0	21.0	24.5	100%
LTE FDD	71	MAIN 1	30.9	32.3	28.4	28.9	23.5	100%
NR FDD	5	MAIN 1	28.7	29.8	26.3	28.1	24.5	100%
NR FDD	25(2)	MAIN 2	28.7	29.8	20.5	20.5	23.5	100%
NR FDD	30	MAIN 2	29.6	29.6	21.0	21.0	23.0	100%
NR TDD PC3	41	MAIN 2	26.2	26.2	21.0	21.0	23.0	100%
NR TDD PC2	41	MAIN 2	26.9	28.3	21.0	21.0	25.5	100%
NR TDD SRS 0	48	SUB 3	22.0	13.5	22.0	22.0	22.5	100%
NR TDD SRS 1	48	MAIN 2	13.0	13.0	13.0	13.0	18.5	100%
NR TDD SRS 2	48	SUB 2	13.0	13.0	13.0	13.0	18.5	100%
NR TDD SRS 3	48	SUB 5	13.0	13.0	13.0	13.0	18.5	100%
NR FDD	66	MAIN 2	29.4	30.8	21.0	21.0	23.5	100%
NR FDD	70	MAIN 2	30.8	31.8	21.5	21.5	24.0	100%
NR FDD	71	MAIN 1	29.8	31.7	28.3	29.1	24.0	100%
NR TDD SRS 0 PC3	77	SUB 3	18.0	16.0	18.0	18.0	23.0	100%
NR TDD SRS 1	77	MAIN 2	13.5	13.5	13.5	13.5	21.5	100%
NR TDD SRS 2	77	SUB 2	12.5	12.5	12.5	12.5	20.5	100%
NR TDD SRS 3	77	SUB 5	12.5	12.5	12.5	12.5	20.0	100%
NR TDD SRS 0 PC2	77	SUB 3	18.0	16.0	18.0	18.0	25.5	100%
NR TDD SRS 1	77	MAIN 2	13.5	13.5	13.5	13.5	21.5	100%
NR TDD SRS 2	77	SUB 2	12.5	12.5	12.5	12.5	20.5	100%
NR TDD SRS 3	77	SUB 5	12.5	12.5	12.5	12.5	20.0	100%
NR TDD SRS 0 PC3	77 DoD	SUB 3	18.0	16.0	18.0	18.0	23.0	100%
NR TDD SRS 1	77 DoD	MAIN 2	13.5	13.5	13.5	13.5	21.5	100%
NR TDD SRS 2	77 DoD	SUB 2	12.5	12.5	12.5	12.5	20.5	100%
NR TDD SRS 3	77 DoD	SUB 5	12.5	12.5	12.5	12.5	20.0	100%
NR TDD SRS 0 PC2	77 DoD	SUB 3	18.0	16.0	18.0	18.0	25.5	100%
NR TDD SRS 1	77 DoD	MAIN 2	13.5	13.5	13.5	13.5	21.5	100%
NR TDD SRS 2	77 DoD	SUB 2	12.5	12.5	12.5	12.5	20.5	100%
NR TDD SRS 3	77 DoD	SUB 5	12.5	12.5	12.5	12.5	20.0	100%

Note :
1. Radio SAR indicator (RSI) in the table above means the SAR test configuration of each mobile communication technology.
2. 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 above table correspond to average power level 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=3), Grip sensor (RSI=2) and Ear-jack mode(RSI=1) are triggered at the same time, RSI =4(RCV) takes higher priority. The Priority for power reduction was given in the order of hotspot(RSI=3), ear-jack.(RSI=1), and grip (RSI=2).

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
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	F13/ 5R4XF1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F07/56W9A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60	F/20/0018446/C/001	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F13/ 5R4XF1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F07/56W9A1/A/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX60 Lspeag	F/20/0018446/A/001	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1338 1332	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0008	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-0602	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	001729	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331939309	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	40332651310	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	40331949309	12/29/2022	Annual	12/29/2023
TESTO	608-H1/Thermometer	83406789	06/29/2023	Annual	06/29/2024
TESTO	175-H1/Thermometer	40331915309	12/29/2022	Annual	12/29/2023
TESTO	175-H1/Thermometer	44606611906	03/27/2023	Annual	03/27/2024
SPEAG	DAE4	1750	10/10/2022	Annual	10/10/2023
SPEAG	DAE4	869	03/23/2023	Annual	03/23/2024
SPEAG	DAE4	652	01/20/2023	Annual	01/20/2024
SPEAG	DAE4	1417	03/01/2023	Annual	03/01/2024
SPEAG	DAE4	1464	06/16/2023	Annual	06/16/2024
SPEAG	DAE4	446	04/25/2023	Annual	04/25/2024
SPEAG	DAE4	1225	03/06/2023	Annual	03/06/2024
SPEAG	DAE4	504	01/10/2023	Annual	01/10/2024
SPEAG	E-Field Probe EX3DV4	7655	05/25/2023	Annual	05/25/2024
SPEAG	E-Field Probe ES3DV3	3076	07/20/2022	Annual	07/20/2023
SPEAG	E-Field Probe EX3DV4	3972	08/19/2022	Annual	08/19/2023
SPEAG	E-Field Probe EX3DV4	7702	01/26/2023	Annual	01/26/2024
SPEAG	E-Field Probe EX3DV4	7622	11/22/2022	Annual	11/22/2023
SPEAG	E-Field Probe EX3DV4	7309	06/19/2023	Annual	06/19/2024
SPEAG	E-Field Probe EX3DV4	7370	08/24/2023	Annual	08/24/2024
SPEAG	E-Field Probe EX3DV4	3797	01/24/2023	Annual	01/24/2024
SPEAG	CLA13	1016	11/16/2022	Annual	11/16/2023
SPEAG	Dipole D750V3	1014	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D835V2	4d165	05/23/2023	Annual	05/23/2024
SPEAG	Dipole D1640V2	345	08/08/2022	Annual	08/08/2023
SPEAG	Dipole D1800V2	2d015	05/17/2023	Annual	05/17/2024
SPEAG	Dipole D1900V2	5d061	01/23/2023	Annual	01/23/2024
SPEAG	Dipole D2300V2	1010	08/18/2022	Annual	08/18/2023
SPEAG	Dipole D2450V2	1049	04/25/2023	Annual	04/25/2024
SPEAG	Dipole D2600V2	1106	05/24/2023	Annual	05/24/2024
SPEAG	Dipole D3500V2	1040	01/22/2023	Annual	01/22/2024
SPEAG	Dipole D3700V2	1066	11/14/2022	Annual	11/14/2023
SPEAG	Dipole D3900V2	1019	05/19/2023	Annual	05/19/2024
SPEAG	Dipole D5GHzV2	1317	05/17/2023	Annual	05/17/2024

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	Power Meter E4419B	MY41291386	09/27/2022	Annual	09/27/2023
Agilent	Power Meter N1911A	MY45101406	05/26/2023	Annual	05/26/2024
Agilent	Power Sensor 8481A	SG1091286	09/27/2022	Annual	09/27/2023
Agilent	Power Sensor 8481A	MY41090675	09/27/2022	Annual	09/27/2023
Agilent	Power Sensor N1921A	MY55220026	08/02/2022	Annual	08/02/2023
Agilent	Power Sensor N1921A	MY55220026	07/28/2023	Annual	07/28/2024
SPEAG	DAKS 3.5	1038	01/25/2023	Annual	01/25/2024
SPEAG	DAKS_VNA R140	0141013	02/13/2023	Annual	02/13/2024
R&S	Wireless Communication Test Set CMW500	115733	03/23/2023	Annual	03/23/2024
Agilent	11636B/Power Divider	58698	01/26/2023	Annual	01/26/2024
OSI	Power Divider	#1	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#2	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#3	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#4	05/26/2023	Annual	05/26/2024
OSI	Power Divider	#5	05/26/2023	Annual	05/26/2024
Agilent	SIGNAL GENERATOR E4438C	MY49071736	12/28/2022	Annual	12/28/2023
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/23/2023	Annual	03/23/2024
AR	RF Power Amplifie	0349583	08/11/2022	Annual	08/11/2023
EMPOWER	RF Power Amplifier	1084	06/20/2022	Annual	06/20/2023
EMPOWER	RF Power Amplifier	1084	05/26/2023	Annual	05/26/2024
EMPOWER	RF Power Amplifier	1011	09/27/2022	Annual	09/27/2023
EMPOWER	RF Power Amplifier	1041D/C0508	05/26/2023	Annual	05/26/2024
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
HP	Attenuator (3dB) 333340A	02427	08/25/2022	Annual	08/25/2023
HP	Attenuator (3dB) 333340A	02427	08/22/2023	Annual	08/22/2024
HP	Attenuator (20dB) 8493C	09271	08/25/2022	Annual	08/25/2023
HP	Attenuator (20dB) 8493C	09271	08/22/2023	Annual	08/22/2024
Aeroflex/Weinschel	Fixed Coaxial Attenuator (30dB)	CE6106	11/15/2022	Annual	11/15/2023
Agilent	Directional Bridge 86205A	3140A04581	04/25/2023	Annual	04/25/2024
Narda	Directional Coupler	07066	01/05/2023	Annual	01/05/2024
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/07/2023	Annual	06/07/2024
Anritsu	Radio Communication Tester MT8820C	6200695605	03/23/2023	Annual	03/23/2024
Anritsu	Radio Communication Tester MT8820C	6201074225	01/25/2023	Annual	01/25/2024
Anritsu	Radio Communication Tester MT8821C	6201502997	05/26/2023	Annual	05/26/2024
Anritsu	Radio Communication Tester MT8821C	6262044720	12/07/2022	Annual	12/07/2023
Anritsu	Radio Communication Tester MT8821C	6262287674	04/25/2023	Annual	04/25/2024
Anritsu	Radio Communication Tester MT8821C	6262287678	05/08/2023	Annual	05/08/2024
Anritsu	Radio Communication Test Station MT8000A	6262036812	12/07/2022	Annual	12/07/2023
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	08/08/2022	Annual	08/08/2023
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/27/2023	Annual	07/27/2024
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=4 - 2G, 3G Head SAR

MEASUREMENT RESULTS										
Frequency		Mode		Ant.	Frame Averaged Conducted Power	Test Position	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)			(W/kg)	(dBm)	(dBm)
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Left Cheek	1:2.67	0.242	31.1	29.4
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Left Tilt	1:2.67	0.118	34.2	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Right Cheek	1:2.67	0.355	29.4	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Right Tilt	1:2.67	0.157	33.0	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Left Cheek	1:2	0.158	30.2	30.2
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Left Tilt	1:2	0.141	30.7	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Right Cheek	1:2	0.123	31.3	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Right Tilt	1:2	0.118	31.5	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Left Cheek	1:1	0.317	28.0	28.0
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Left Tilt	1:1	0.193	30.2	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Right Cheek	1:1	0.192	30.2	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Right Tilt	1:1	0.179	30.5	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Left Cheek	1:1	0.251	29.0	29.0
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Left Tilt	1:1	0.176	30.6	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Right Cheek	1:1	0.191	30.2	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Right Tilt	1:1	0.141	31.5	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Left Cheek	1:1	0.257	30.7	29.9
836.6	4183	UMTS Band 5	RMC	M1	24.81	Left Tilt	1:1	0.123	33.9	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Right Cheek	1:1	0.309	29.9	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Right Tilt	1:1	0.154	32.9	

Table A-2 RSI=4 – 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.				(MHz)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Left Cheek	0	1	49	1:1	0.332	28.1	24.2
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Left Tilt	0	1	49	1:1	0.268	29.0	
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Right Cheek	0	1	49	1:1	0.817	24.2	
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Right Tilt	0	1	49	1:1	0.283	28.8	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Left Cheek	0	1	49	1:1	0.247	30.9	29.5
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Left Tilt	0	1	49	1:1	0.160	32.7	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Right Cheek	0	1	49	1:1	0.335	29.5	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Right Tilt	0	1	49	1:1	0.157	32.8	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Left Cheek	0	1	0	1:1	0.278	28.7	28.7
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Left Tilt	0	1	0	1:1	0.119	32.4	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Right Cheek	0	1	0	1:1	0.271	28.9	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Right Tilt	0	1	0	1:1	0.222	29.7	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Left Cheek	0	1	0	1:1	0.139	33.3	32.8
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Left Tilt	0	1	0	1:1	0.079	35.8	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Right Cheek	0	1	0	1:1	0.155	32.8	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Right Tilt	0	1	0	1:1	0.088	35.3	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Left Cheek	0	1	0	1:1	0.185	31.1	30.8
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Left Tilt	0	1	0	1:1	0.103	33.7	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Right Cheek	0	1	0	1:1	0.199	30.8	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Right Tilt	0	1	0	1:1	0.114	33.2	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Left Cheek	0	1	0	1:1	0.140	32.1	31.0
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Left Tilt	0	1	0	1:1	0.077	34.7	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Right Cheek	0	1	0	1:1	0.179	31.0	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Right Tilt	0	1	0	1:1	0.097	33.7	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Left Cheek	0	1	49	1:1	0.243	30.2	30.2
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Left Tilt	0	1	49	1:1	0.165	31.9	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Right Cheek	0	1	49	1:1	0.223	30.6	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Right Tilt	0	1	49	1:1	0.154	32.2	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Left Cheek	0	1	0	1:1	0.246	31.0	29.9
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Left Tilt	0	1	0	1:1	0.151	33.1	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Right Cheek	0	1	0	1:1	0.319	29.9	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Right Tilt	0	1	0	1:1	0.172	32.5	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Left Cheek	0	1	0	1:1	0.202	30.0	30.0
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Left Tilt	0	1	0	1:1	0.080	34.0	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Right Cheek	0	1	0	1:1	0.201	30.0	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Right Tilt	0	1	0	1:1	0.118	32.3	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Left Cheek	0	1	0	1:1.58	0.271	28.6	28.6
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Left Tilt	0	1	0	1:1.58	0.101	32.9	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Right Cheek	0	1	0	1:1.58	0.181	30.3	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Right Tilt	0	1	0	1:1.58	0.171	30.6	

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.				(MHz)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Left Cheek	0	1	0	1:1.58	0.202	28.5	28.5
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Left Tilt	0	1	0	1:1.58	0.061	33.7	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Right Cheek	0	1	0	1:1.58	0.127	30.5	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Right Tilt	0	1	0	1:1.58	0.113	31.0	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Left Cheek	0	1	0	1:2.31	0.240	28.9	28.9
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Left Tilt	0	1	0	1:2.31	0.081	33.6	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Right Cheek	0	1	0	1:2.31	0.172	30.4	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Right Tilt	0	1	0	1:2.31	0.165	30.5	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Left Cheek	0	1	99	1:1.58	0.142	28.9	24.4
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Left Tilt	0	1	99	1:1.58	0.132	29.2	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Right Cheek	0	1	99	1:1.58	0.405	24.4	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Right Tilt	0	1	99	1:1.58	0.252	26.4	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Left Cheek	0	1	99	1:1.58	0.416	23.2	17.7
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Left Tilt	0	1	99	1:1.58	0.366	23.7	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Right Cheek	0	1	99	1:1.58	1.460	17.7	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Right Tilt	0	1	99	1:1.58	0.713	20.8	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Left Cheek	0	1	0	1:1	0.117	33.4	32.3
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Left Tilt	0	1	0	1:1	0.057	36.5	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Right Cheek	0	1	0	1:1	0.151	32.3	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Right Tilt	0	1	0	1:1	0.076	35.3	

The Plimit of LTE TDD was written as Frame averaged power

Table A-3 RSI=4 – 5G 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.				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	M1	20	24.78	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.278	30.3	29.8
836.5	167300	NR Band n5	Mid	M1	20	24.78	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.172	32.4	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.316	29.8	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.175	32.3	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Left Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.278	30.3	29.8
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Left Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.172	32.4	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Right Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.316	29.8	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Right Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.175	32.3	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Left Cheek	DFT-s-OFDM QPSK	0	1	26	1:1	0.212	29.6	29.6
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Left Tilt	DFT-s-OFDM QPSK	0	1	26	1:1	0.085	33.5	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Right Cheek	DFT-s-OFDM QPSK	0	1	26	1:1	0.180	30.3	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Right Tilt	DFT-s-OFDM QPSK	0	1	26	1:1	0.117	32.2	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Left Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.675	26.2	26.2
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Left Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.208	31.3	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Right Cheek	DFT-s-OFDM QPSK	0	1	137	1:1	0.388	28.6	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Right Tilt	DFT-s-OFDM QPSK	0	1	137	1:1	0.366	28.8	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.393	27.0	22.6
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.408	26.9	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	1.080	22.6	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.729	24.4	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.033	33.6	31.3
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.023	35.2	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.029	34.2	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.056	31.3	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.179	26.3	21.4
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.175	26.4	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.546	21.4	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.411	22.7	

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.				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.001	46.3	46.3
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.001	46.3	
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.001	46.3	
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.001	46.3	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Left Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.190	30.8	30.8
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Left Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.145	32.0	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Right Cheek	DFT-s-OFDM QPSK	0	1	108	1:1	0.134	32.3	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Right Tilt	DFT-s-OFDM QPSK	0	1	108	1:1	0.130	32.4	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Left Cheek	DFT-s-OFDM QPSK	0	36	22	1:1	0.149	31.8	31.8
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Left Tilt	DFT-s-OFDM QPSK	0	36	22	1:1	0.103	33.4	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Right Cheek	DFT-s-OFDM QPSK	0	36	22	1:1	0.114	33.0	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Right Tilt	DFT-s-OFDM QPSK	0	36	22	1:1	0.094	33.8	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.145	33.5	31.7
680.5	136100	NR Band n71	Mid	M1	20	25.14	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.073	36.5	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.223	31.7	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.114	34.6	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	1.690	22.7	17.9
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	1.720	22.6	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	5.080	17.9	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	3.040	20.2	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.039	34.9	33.6
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.031	35.9	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.038	35.1	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.053	33.6	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.378	25.6	20.4
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.328	26.2	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	1.240	20.4	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	1.010	21.3	

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.				(MHz)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.029	32.5	29.2
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.028	32.6	
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.062	29.2	
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.035	31.7	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.652	26.6	22.3
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.676	26.4	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	1.760	22.3	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	1.140	24.2	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.088	32.1	32.1
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.001	51.5	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.055	34.1	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.052	34.4	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.354	25.2	20.8
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.402	24.7	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.988	20.8	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.808	21.6	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.039	33.3	32.3
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.043	32.9	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.044	32.8	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.050	32.3	

Table A-4 RSI=0 – 2G, 3G Body-Worn SAR

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

MEASUREMENT RESULTS											
Frequency		Mode		Ant.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)				(W/kg)	(dBm)	(dBm)
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Back	15	1:2.67	0.568	27.4	27.4
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Front	15	1:2.67	0.286	30.4	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Back	15	1:2	0.226	28.7	28.7
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Front	15	1:2	0.188	29.5	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Back	15	1:1	0.369	27.4	27.4
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Front	15	1:1	0.347	27.7	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Back	15	1:1	0.341	27.7	27.7
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Front	15	1:1	0.313	28.1	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Back	15	1:1	0.330	29.6	29.6
836.6	4183	UMTS Band 5	RMC	M1	24.81	Front	15	1:1	0.262	30.6	

Table A-5 RSI=0 – 4G Body-Worn SAR

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)
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Back	0	15	1	49	1:1	0.483	26.5	26.5
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Front	0	15	1	49	1:1	0.148	31.6	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Back	0	15	1	49	1:1	0.430	28.5	28.5
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Front	0	15	1	49	1:1	0.257	30.7	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Back	0	15	1	0	1:1	0.473	26.4	26.4
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Front	0	15	1	0	1:1	0.352	27.7	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Back	0	15	1	0	1:1	0.254	30.7	30.7
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Front	0	15	1	0	1:1	0.157	32.8	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Back	0	15	1	0	1:1	0.336	28.5	28.5
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Front	0	15	1	0	1:1	0.259	29.7	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Back	0	15	1	0	1:1	0.243	29.7	29.7
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Front	0	15	1	0	1:1	0.223	30.1	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Back	0	15	1	49	1:1	0.364	28.4	28.4
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Front	0	15	1	49	1:1	0.291	29.4	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Back	0	15	1	0	1:1	0.395	28.9	28.9
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Front	0	15	1	0	1:1	0.279	30.4	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Back	0	15	1	0	1:1	0.250	29.1	29.1
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Front	0	15	1	0	1:1	0.225	29.5	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Back	0	15	1	0	1:1.58	0.296	28.2	28.2
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Front	0	15	1	0	1:1.58	0.245	29.0	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Back	0	15	1	0	1:1.58	0.238	27.8	27.8
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Front	0	15	1	0	1:1.58	0.194	28.6	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Back	0	15	1	0	1:2.31	0.318	27.7	27.7
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Front	0	15	1	0	1:2.31	0.252	28.7	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Back	0	15	1	99	1:1.58	0.252	26.4	26.4
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Front	0	15	1	99	1:1.58	0.135	29.1	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Back	0	15	1	99	1:1.58	0.324	24.2	24.2
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Front	0	15	1	99	1:1.58	0.168	27.1	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Back	0	15	1	0	1:1	0.207	30.9	30.9
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Front	0	15	1	0	1:1	0.167	31.9	

The Plimit of LTE TDD was written as Frame averaged power

Table A-6 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	24.78	Back	DFT-s-OFDM QPSK	0	15	1	53	1:1	0.405	28.7	28.7
836.5	167300	NR Band n5	Mid	M1	20	24.78	Front	DFT-s-OFDM QPSK	0	15	1	53	1:1	0.281	30.3	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Back	DFT-s-OFDM QPSK	0	15	1	108	1:1	0.309	28.7	28.7
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Front	DFT-s-OFDM QPSK	0	15	1	108	1:1	0.224	30.1	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Back	DFT-s-OFDM QPSK	0	15	1	26	1:1	0.188	30.1	29.6
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Front	DFT-s-OFDM QPSK	0	15	1	26	1:1	0.212	29.6	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Back	DFT-s-OFDM QPSK	0	15	1	137	1:1	0.664	26.2	26.2
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Front	DFT-s-OFDM QPSK	0	15	1	137	1:1	0.410	28.3	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Back	DFT-s-OFDM QPSK	0	15	1	53	1:1	0.029	38.4	38.4
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Front	DFT-s-OFDM QPSK	0	15	1	53	1:1	0.015	41.2	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.168	26.6	26.6
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.042	32.6	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.091	29.2	29.2
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.067	30.6	
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.035	30.9	30.9
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.028	31.9	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Back	DFT-s-OFDM QPSK	0	15	1	108	1:1	0.260	29.4	29.4
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Front	DFT-s-OFDM QPSK	0	15	1	108	1:1	0.253	29.5	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Back	DFT-s-OFDM QPSK	0	15	36	22	1:1	0.190	30.8	30.8
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Front	DFT-s-OFDM QPSK	0	15	36	22	1:1	0.182	30.9	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Back	DFT-s-OFDM QPSK	0	15	1	53	1:1	0.342	29.8	29.8
680.5	136100	NR Band n71	Mid	M1	20	25.14	Front	DFT-s-OFDM QPSK	0	15	1	53	1:1	0.229	31.5	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.083	35.8	35.8
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.049	38.1	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.362	25.3	25.3
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.078	31.9	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.175	28.9	28.9
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.151	29.6	

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)
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Back	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.040	31.1	31.1
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Front	DFT-s-OFDM QPSK	0	15	1	1	1:1	0.036	31.5	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Back	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.523	27.5	27.5
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Front	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.284	30.2	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Back	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.218	28.1	28.1
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Front	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.065	33.4	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Back	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.357	25.2	25.2
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Front	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.213	27.4	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Back	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.042	33.0	33.0
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Front	DFT-s-OFDM QPSK	0	15	1	271	1:1	0.041	33.1	

Table A-7 RSI = 3 – 2G, 3G Hotspot SAR

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

MEASUREMENT RESULTS											
Frequency		Mode		Ant.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)				(W/kg)	(dBm)	(dBm)
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Back	10	1:2.67	0.712	26.4	26.4
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Front	10	1:2.67	0.208	31.7	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Left	10	1:2.67	0.146	33.3	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Right	10	1:2.67	0.276	30.5	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Bottom	10	1:2.67	0.403	28.9	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Back	10	1:2	0.484	25.4	25.3
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Front	10	1:2	0.398	26.2	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Left	10	1:2	0.233	28.5	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Bottom	10	1:2	0.489	25.3	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Back	10	1:1	0.717	24.5	24.1
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Front	10	1:1	0.588	25.4	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Left	10	1:1	0.379	27.3	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Bottom	10	1:1	0.788	24.1	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Back	10	1:1	0.634	25.0	24.2
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Front	10	1:1	0.508	26.0	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Left	10	1:1	0.318	28.0	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Bottom	10	1:1	0.771	24.2	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Back	10	1:1	0.675	24.9	24.9
836.6	4183	UMTS Band 5	RMC	M1	24.81	Front	10	1:1	0.219	29.8	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Left	10	1:1	0.164	31.1	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Right	10	1:1	0.282	28.7	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Bottom	10	1:1	0.399	27.2	

Table A-8 RSI = 3 – 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	MPR	Spacing (mm)	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	M3	20	23.32	Back	0	10	1	49	1:1	0.870	23.9	23.9
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Front	0	10	1	49	1:1	0.218	29.9	
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Left	0	10	1	49	1:1	0.581	25.7	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Back	0	10	1	49	1:1	0.651	26.7	26.7
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Front	0	10	1	49	1:1	0.212	31.5	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Left	0	10	1	49	1:1	0.157	32.8	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Right	0	10	1	49	1:1	0.284	30.3	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Bottom	0	10	1	49	1:1	0.421	28.5	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Back	0	10	1	0	1:1	0.861	23.8	23.8
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Front	0	10	1	0	1:1	0.692	24.8	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Left	0	10	1	0	1:1	0.344	27.8	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Bottom	0	10	1	0	1:1	0.734	24.5	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Back	0	10	1	0	1:1	0.222	31.3	32.8
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Front	0	10	1	0	1:1	0.092	35.1	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Left	0	10	1	0	1:1	0.101	34.7	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Right	0	10	1	0	1:1	0.181	32.2	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Bottom	0	10	1	0	1:1	0.066	36.5	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Back	0	10	1	0	1:1	0.214	30.5	29.5
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Front	0	10	1	0	1:1	0.162	31.7	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Left	0	10	1	0	1:1	0.134	32.5	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Right	0	10	1	0	1:1	0.268	29.5	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Bottom	0	10	1	0	1:1	0.232	30.2	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Back	0	10	1	0	1:1	0.349	28.1	28.1
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Front	0	10	1	0	1:1	0.136	32.2	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Left	0	10	1	0	1:1	0.111	33.1	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Right	0	10	1	0	1:1	0.244	29.7	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Bottom	0	10	1	0	1:1	0.221	30.1	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Back	0	10	1	49	1:1	0.633	26.0	25.7
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Front	0	10	1	49	1:1	0.554	26.6	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Left	0	10	1	49	1:1	0.333	28.8	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Bottom	0	10	1	49	1:1	0.689	25.7	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Back	0	10	1	0	1:1	0.615	27.0	27.0
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Front	0	10	1	0	1:1	0.207	31.7	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Left	0	10	1	0	1:1	0.153	33.1	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Right	0	10	1	0	1:1	0.281	30.4	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Bottom	0	10	1	0	1:1	0.375	29.2	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Back	0	10	1	0	1:1	0.482	26.2	26.2
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Front	0	10	1	0	1:1	0.405	27.0	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Left	0	10	1	0	1:1	0.291	28.4	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Bottom	0	10	1	0	1:1	0.344	27.7	

The Plimit of LTE TDD was written as Frame averaged power

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)
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Back	0	10	1	0	1:1.58	0.763	24.1	24.1
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Front	0	10	1	0	1:1.58	0.514	25.8	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Left	0	10	1	0	1:1.58	0.311	28.0	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Bottom	0	10	1	0	1:1.58	0.542	25.6	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Back	0	10	1	0	1:1.58	0.267	27.3	27.3
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Front	0	10	1	0	1:1.58	0.195	28.6	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Left	0	10	1	0	1:1.58	0.079	32.5	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Bottom	0	10	1	0	1:1.58	0.167	29.3	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Back	0	10	1	0	1:2.31	0.563	25.2	25.2
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Front	0	10	1	0	1:2.31	0.381	26.9	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Left	0	10	1	0	1:2.31	0.222	29.3	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Bottom	0	10	1	0	1:2.31	0.359	27.2	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Back	0	10	1	99	1:1.58	0.428	24.1	24.1
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Front	0	10	1	99	1:1.58	0.169	28.2	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Left	0	10	1	99	1:1.58	0.325	25.3	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Top	0	10	1	99	1:1.58	0.197	27.5	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Back	0	10	1	99	1:1.58	0.600	21.6	21.4
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Front	0	10	1	99	1:1.58	0.305	24.5	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Left	0	10	1	99	1:1.58	0.625	21.4	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Top	0	10	1	99	1:1.58	0.327	24.2	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Back	0	10	1	0	1:1	0.367	28.4	28.4
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Front	0	10	1	0	1:1	0.153	32.2	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Left	0	10	1	0	1:1	0.159	32.1	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Right	0	10	1	0	1:1	0.294	29.4	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Bottom	0	10	1	0	1:1	0.159	32.1	

The Plimit of LTE TDD was written as Frame averaged power

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)
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Back	0	10	1	99	1:1.58	0.428	24.1	24.1
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Front	0	10	1	99	1:1.58	0.169	28.2	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Left	0	10	1	99	1:1.58	0.325	25.3	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Top	0	10	1	99	1:1.58	0.197	27.5	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Back	0	10	1	99	1:1.58	0.600	21.6	21.4
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Front	0	10	1	99	1:1.58	0.305	24.5	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Left	0	10	1	99	1:1.58	0.625	21.4	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Top	0	10	1	99	1:1.58	0.327	24.2	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Back	0	10	1	0	1:1	0.367	28.4	28.4
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Front	0	10	1	0	1:1	0.153	32.2	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Left	0	10	1	0	1:1	0.159	32.1	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Right	0	10	1	0	1:1	0.294	29.4	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Bottom	0	10	1	0	1:1	0.159	32.1	

Table A-9 RSI = 3 – 5G 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 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	24.78	Back	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.703	26.3	26.3
836.5	167300	NR Band n5	Mid	M1	20	24.78	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.223	31.3	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Left	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.162	32.7	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Right	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.282	30.3	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Bottom	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.418	28.6	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Back	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.670	25.4	24.8
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Front	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.573	26.0	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Left	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.356	28.1	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Bottom	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.758	24.8	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Back	DFT-s-OFDM QPSK	0	10	1	26	1:1	0.565	25.3	25.3
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Front	DFT-s-OFDM QPSK	0	10	1	26	1:1	0.427	26.5	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Left	DFT-s-OFDM QPSK	0	10	1	26	1:1	0.331	27.6	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Bottom	DFT-s-OFDM QPSK	0	10	1	26	1:1	0.392	26.9	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Back	DFT-s-OFDM QPSK	0	10	1	137	1:1	1.110	24.0	24.0
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Front	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.868	25.1	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Left	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.448	27.9	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Bottom	DFT-s-OFDM QPSK	0	10	1	137	1:1	0.877	25.0	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Back	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.560	25.5	25.5
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.272	28.6	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Left	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.401	26.9	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Top	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.321	27.9	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.273	24.4	24.4
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.058	31.2	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.050	31.8	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.207	25.7	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.203	25.7	25.7
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.145	27.2	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.134	27.5	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.156	26.9	

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)
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.001	46.3	46.3
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.001	46.3	
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.001	46.3	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Back	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.613	25.7	25.7
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Front	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.528	26.4	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Left	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.309	28.7	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Bottom	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.571	26.0	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Back	DFT-s-OFDM QPSK	0	10	36	22	1:1	0.516	26.4	26.0
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Front	DFT-s-OFDM QPSK	0	10	36	22	1:1	0.447	27.0	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Left	DFT-s-OFDM QPSK	0	10	36	22	1:1	0.211	30.3	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Bottom	DFT-s-OFDM QPSK	0	10	36	22	1:1	0.568	26.0	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Back	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.478	28.3	28.3
680.5	136100	NR Band n71	Mid	M1	20	25.14	Front	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.212	31.9	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Left	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.245	31.2	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Right	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.423	28.9	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Bottom	DFT-s-OFDM QPSK	0	10	1	53	1:1	0.222	31.7	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	1.820	22.4	22.4
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	1.160	24.3	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	1.830	22.4	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	1.420	23.5	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.693	22.5	22.5
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.123	30.0	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.083	31.7	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.449	24.3	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.413	25.2	25.2
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.280	26.9	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.321	26.3	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.278	26.9	

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)
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Back	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.045	30.6	30.0
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.039	31.2	
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.051	30.0	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Back	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.962	24.9	24.9
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.454	28.1	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.766	25.9	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Top	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.497	27.8	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Back	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.434	25.2	25.2
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.107	31.2	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.106	31.3	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Bottom	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.280	27.1	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Back	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.375	25.0	25.0
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.224	27.2	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.202	27.7	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Top	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.287	26.1	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Back	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.052	32.1	32.1
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.030	34.5	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Top	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.047	32.5	

Table A-10 RSI = 1, 2 – 2G, 3G 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.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)				(W/kg)	(dBm)	(dBm)
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Back	0	1:2.67	1.130	28.4	28.3
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Front	0	1:2.67	0.591	31.2	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Left	0	1:2.67	0.119	38.1	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Right	0	1:2.67	0.544	31.5	
893.8	251	GSM 850	GPRS 3Tx	M1	24.92	Bottom	0	1:2.67	1.140	28.3	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Back	0	1:2	2.200	22.8	22.8
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Front	0	1:2	1.400	24.7	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Left	0	1:2	0.962	26.3	
1 960.0	661	GSM 1900	GPRS 4Tx	M2	22.20	Bottom	0	1:2	1.050	26.0	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Back	0	1:1	3.810	21.2	21.2
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Front	0	1:1	2.340	23.3	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Left	0	1:1	1.460	25.4	
1 880.0	9400	UMTS Band 2	RMC	M2	23.06	Bottom	0	1:1	1.800	24.5	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Back	0	1:1	3.450	21.6	21.6
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Front	0	1:1	2.040	23.9	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Left	0	1:1	1.170	26.3	
1 732.4	1412	UMTS Band 4	RMC	M2	23.03	Bottom	0	1:1	1.940	24.1	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Back	0	1:1	0.785	28.3	27.2
836.6	4183	UMTS Band 5	RMC	M1	24.81	Front	0	1:1	0.620	29.3	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Left	0	1:1	0.140	35.8	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Right	0	1:1	0.525	30.0	
836.6	4183	UMTS Band 5	RMC	M1	24.81	Bottom	0	1:1	0.994	27.2	

Table A-11 RSI = 1, 2 – 4G 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 (10g)	Plimit	Minimum Plimit
MHz	Ch.				(MHz)	(dBm)		(dB)					(W/kg)	(dBm)	(dBm)
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Back	0	0	1	49	1:1	3.84	21.5	21.5
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Front	0	0	1	49	1:1	0.700	28.8	
1 860.0	18700	LTE Band 2	Low	M3	20	23.32	Left	0	0	1	49	1:1	2.140	24.0	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Back	0	0	1	49	1:1	0.722	30.2	28.6
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Front	0	0	1	49	1:1	0.594	31.0	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Left	0	0	1	49	1:1	0.142	37.2	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Right	0	0	1	49	1:1	0.513	31.7	
836.5	20525	LTE Band 5	Mid	M1	10	24.79	Bottom	0	0	1	49	1:1	1.040	28.6	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Back	0	0	1	0	1:1	3.550	21.7	21.7
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Front	0	0	1	0	1:1	2.740	22.8	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Left	0	0	1	0	1:1	1.050	27.0	
2 535.0	21100	LTE Band 7	Mid	M2	20	23.19	Bottom	0	0	1	0	1:1	2.180	23.8	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Back	0	0	1	0	1:1	1.070	28.4	28.4
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Front	0	0	1	0	1:1	0.218	35.3	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Left	0	0	1	0	1:1	0.072	40.1	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Right	0	0	1	0	1:1	0.343	33.4	
707.5	23095	LTE Band 12	Mid	M1	10	24.73	Bottom	0	0	1	0	1:1	0.483	31.9	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Back	0	0	1	0	1:1	0.581	30.1	30.1
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Front	0	0	1	0	1:1	0.333	32.6	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Left	0	0	1	0	1:1	0.083	38.6	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Right	0	0	1	0	1:1	0.325	32.7	
782.0	23230	LTE Band 13	Mid	M1	10	23.81	Bottom	0	0	1	0	1:1	0.594	30.1	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Back	0	0	1	0	1:1	0.492	30.6	30.6
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Front	0	0	1	0	1:1	0.288	33.0	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Left	0	0	1	0	1:1	0.069	39.2	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Right	0	0	1	0	1:1	0.262	33.4	
793.0	23330	LTE Band 14	Mid	M1	10	23.57	Bottom	0	0	1	0	1:1	0.486	30.7	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Back	0	0	1	49	1:1	3.530	22.6	22.6
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Front	0	0	1	49	1:1	2.020	25.0	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Left	0	0	1	49	1:1	1.370	26.7	
1 882.5	26365	LTE Band 25	Mid	M2	20	24.05	Bottom	0	0	1	49	1:1	1.670	25.8	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Back	0	0	1	0	1:1	0.753	30.1	29.1
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Front	0	0	1	0	1:1	0.545	31.5	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Left	0	0	1	0	1:1	0.126	37.9	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Right	0	0	1	0	1:1	0.512	31.8	
831.5	26865	LTE Band 26	Mid	M1	15	24.90	Bottom	0	0	1	0	1:1	0.957	29.1	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Back	0	0	1	0	1:1	3.320	21.8	21.8
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Front	0	0	1	0	1:1	1.650	24.9	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Left	0	0	1	0	1:1	1.070	26.7	
2 310.0	27710	LTE Band 30	Mid	M2	10	23.06	Bottom	0	0	1	0	1:1	1.190	26.3	

The Plimit of LTE TDD was written as Frame averaged power

MEASUREMENT RESULTS															
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Position	MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.				(MHz)	(dBm)		(dB)					(W/kg)	(dBm)	(dBm)
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Back	0	0	1	0	1:1.58	2.600	22.7	22.7
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Front	0	0	1	0	1:1.58	1.880	24.1	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Left	0	0	1	0	1:1.58	0.955	27.1	
2 636.5	41055	LTE Band 41 (PC3)	High	M2	20	22.91	Bottom	0	0	1	0	1:1.58	1.540	25.0	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Back	0	0	1	0	1:1.58	2.140	22.2	22.2
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Front	0	0	1	0	1:1.58	1.620	23.4	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Left	0	0	1	0	1:1.58	0.757	26.7	
2 593.0	40620	LTE Band 41 ULCA (PC3)	Mid	M2	20	21.52	Bottom	0	0	1	0	1:1.58	1.330	24.3	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Back	0	0	1	0	1:2.31	1.950	23.8	23.8
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Front	0	0	1	0	1:2.31	1.220	25.8	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Left	0	0	1	0	1:2.31	0.820	27.6	
2 680.0	41490	LTE Band 41 (PC2)	High	M2	20	22.72	Bottom	0	0	1	0	1:2.31	1.20	25.9	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Back	0	0	1	99	1:1.58	1.490	22.7	22.7
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Front	0	0	1	99	1:1.58	0.509	27.4	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Left	0	0	1	99	1:1.58	0.734	25.8	
3 560.0	55340	LTE Band 48	Low	S3	20	20.44	Top	0	0	1	99	1:1.58	0.288	29.8	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Back	0	0	1	99	1:1.58	1.510	21.5	21.5
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Front	0	0	1	99	1:1.58	1.140	22.8	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Left	0	0	1	99	1:1.58	1.160	22.7	
3 560.0	55340	LTE Band 48 ULCA	Low	S3	20	19.35	Top	0	0	1	99	1:1.58	0.424	27.1	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Back	0	0	1	0	1:1	0.817	28.9	28.9
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Front	0	0	1	0	1:1	0.262	33.9	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Left	0	0	1	0	1:1	0.092	38.4	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Right	0	0	1	0	1:1	0.388	32.2	
680.5	133297	LTE Band 71	Mid	M1	20	24.08	Bottom	0	0	1	0	1:1	0.490	31.2	

The Plimit of LTE TDD was written as Frame averaged power

Table A-12 RSI = 1, 2 – 5G 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 Configurations		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.				(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	Mid	M1	20	24.78	Back	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.816	29.6	28.1
836.5	167300	NR Band n5	Mid	M1	20	24.78	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.618	30.8	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Left	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.142	37.2	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Right	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.629	30.8	
836.5	167300	NR Band n5	Mid	M1	20	24.78	Bottom	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.160	28.1	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Back	DFT-s-OFDM QPSK	0	0	1	108	1:1	3.720	21.9	21.9
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Front	DFT-s-OFDM QPSK	0	0	1	108	1:1	2.080	24.4	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Left	DFT-s-OFDM QPSK	0	0	1	108	1:1	1.420	26.1	
1 882.5	376500	NR Band n25	Mid	M2	40	23.63	Bottom	DFT-s-OFDM QPSK	0	0	1	108	1:1	1.720	25.3	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Back	DFT-s-OFDM QPSK	0	0	1	26	1:1	3.370	21.5	21.5
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Front	DFT-s-OFDM QPSK	0	0	1	26	1:1	1.850	24.1	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Left	DFT-s-OFDM QPSK	0	0	1	26	1:1	1.170	26.1	
2 310.0	462000	NR Band n30	Mid	M2	10	22.84	Bottom	DFT-s-OFDM QPSK	0	0	1	26	1:1	1.300	25.7	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Back	DFT-s-OFDM QPSK	0	0	1	137	1:1	3.710	22.7	22.7
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Front	DFT-s-OFDM QPSK	0	0	1	137	1:1	2.970	23.7	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Left	DFT-s-OFDM QPSK	0	0	1	137	1:1	1.580	26.4	
2 592.99	518598	NR Band n41	Mid	M2	100	24.45	Bottom	DFT-s-OFDM QPSK	0	0	1	137	1:1	2.310	24.8	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Back	DFT-s-OFDM QPSK	0	0	1	53	1:1	2.810	22.5	22.5
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.773	28.1	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Left	DFT-s-OFDM QPSK	0	0	1	53	1:1	1.060	26.7	
3 570.0	638000	NR Band n48	Low	S3	40	22.98	Top	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.521	29.8	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.720	20.4	20.4
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.183	30.2	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.203	29.7	
3 624.99	641666	NR Band n48 SRS1	Mid	M2	40	18.81	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.357	27.3	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.200	22.0	22.0
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.473	26.1	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.352	27.3	
3 624.99	641666	NR Band n48 SRS2	Mid	S2	40	18.82	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.517	25.7	

MEASUREMENT RESULTS																	
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.				(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.049	33.4	33.4
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.001	50.3	
3 624.99	641666	NR Band n48 SRS3	Mid	S5	40	16.34	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.032	35.3	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Back	DFT-s-OFDM QPSK	0	0	1	108	1:1	3.480	22.1	22.1
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Front	DFT-s-OFDM QPSK	0	0	1	108	1:1	1.990	24.6	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Left	DFT-s-OFDM QPSK	0	0	1	108	1:1	1.090	27.2	
1 745.0	349000	NR Band n66	Mid	M2	40	23.58	Bottom	DFT-s-OFDM QPSK	0	0	1	108	1:1	1.740	25.2	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Back	DFT-s-OFDM QPSK	0	0	36	22	1:1	2.800	23.0	23.0
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Front	DFT-s-OFDM QPSK	0	0	36	22	1:1	1.940	24.6	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Left	DFT-s-OFDM QPSK	0	0	36	22	1:1	0.931	27.8	
1 702.5	340500	NR Band n70	Mid	M2	15	23.54	Bottom	DFT-s-OFDM QPSK	0	0	36	22	1:1	1.580	25.5	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Back	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.996	29.1	29.1
680.5	136100	NR Band n71	Mid	M1	20	25.14	Front	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.364	33.5	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Left	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.128	38.0	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Right	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.475	32.4	
680.5	136100	NR Band n71	Mid	M1	20	25.14	Bottom	DFT-s-OFDM QPSK	0	0	1	53	1:1	0.602	31.3	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	5.440	21.6	21.6
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	3.400	23.7	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	3.110	24.0	
3 750.0	650000	NR Band n77	Low	S3	100	24.99	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.010	25.9	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.490	20.9	20.9
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.347	29.4	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.297	30.1	
3 750.0	650000	NR Band n77 SRS1	Low	M2	100	20.86	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.817	25.7	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	2.350	21.6	21.6
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.080	25.0	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.933	25.7	
3 750.0	650000	NR Band n77 SRS2	Low	S2	100	21.38	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.877	25.9	

MEASUREMENT RESULTS																	
Frequency		Mode		Ant.	Band width	Frame Averaged Conducted Power	Test Configurations		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR (10g)	Plimit	Minimum Plimit
MHz	Ch.				(MHz)	(dBm)			(dB)					(W/kg)	(dBm)	(dBm)
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Back	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.079	32.1	32.1
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.022	37.7	
3 750.0	650000	NR Band n77 SRS3	Low	S5	100	17.11	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.061	33.2	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Back	DFT-s-OFDM QPSK	0	0	1	271	1:1	4.600	22.1	22.1
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.230	27.8	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.690	26.4	
3 500.01	633334	NR Band n77 DoD	Mid	S3	100	24.72	Top	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.724	30.1	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Back	DFT-s-OFDM QPSK	0	0	1	271	1:1	2.710	21.2	21.2
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.356	30.0	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.416	29.3	
3 500.01	633334	NR Band n77 DoD SRS1	Mid	M2	100	21.53	Bottom	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.564	28.0	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Back	DFT-s-OFDM QPSK	0	0	1	271	1:1	2.360	21.0	21.0
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.713	26.2	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.565	27.2	
3 500.01	633334	NR Band n77 DoD SRS2	Mid	S2	100	20.71	Top	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.030	24.6	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Back	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.131	32.1	32.1
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.031	38.3	
3 500.01	633334	NR Band n77 DoD SRS3	Mid	S5	100	19.26	Top	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.090	33.7	