

TEST REPORT

FCC SAR Part 0 Test for SC-51F
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2412-FC002-R1

DATE OF ISSUE
December 27, 2024

Tested by
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TEST REPORT

PART 0 SAR Test for
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HCT-SR-2412-FC002-R1

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FCC ID

A3LSMS931JPN

Applicant

SAMSUNG Electronics Co., Ltd

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

Product Name
Model Name
Multi Model Name

Mobile Phone
SC-51F
SCG31

Date of Test

Oct. 01, 2024 ~ Nov. 25, 2024

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, 17383 KOREA)

FCC Rule Part(s)

CFR §2.1093

Test Results

PASS (SAR Limit : 1.6 W/kg)
Refer to the clause 3.2 Attestation of test result

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	Dec. 04, 2024	Initial Release
1	Dec. 27 2024	Added NR Band n5(Main 1)

Notice

Content

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

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

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

Information provided by the applicant is marked **.

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

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

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

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1. Test Location

1.1 Test Laboratory

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

1.3 General Information of the EUT

Model Name	SC-51F
Multi Model Name	SCG31
Equipment Type	Mobile Phone
FCC ID	A3LSMS931JPN
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

2. DEVICE UNDER TEST DESCRIPTION

This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G/5G WWAN/WLAN/BT operations. Additionally, this device supports NFC technology, but the output power of this technology is not controlled by the Smart Transmit algorithm.

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
GSM850	Voice / Data	824.2 MHz ~ 848.8 MHz
GSM1900	Voice / Data	1850.2 MHz ~ 1909.8 MHz
UMTS Band 5	Voice / Data	826.4 MHz ~ 846.6 MHz
LTE FDD Band 2 (PCS)	Voice / Data	1850.7 MHz ~ 1909.3 MHz
LTE FDD Band 4 (AWS)	Voice / Data	1710.7 MHz ~ 1754.3 MHz
LTE FDD Band 5 (Cell)	Voice / Data	824.7 MHz ~ 848.3 MHz
LTE FDD Band 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE FDD Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE FDD Band 26	Voice / Data	814.7 MHz ~ 848.3 MHz
LTE TDD Band 41	Voice / Data	2 498.5 MHz ~ 2 687.5 MHz
LTE FDD Band 66 (AWS)	Voice / Data	1710.7 MHz ~ 1779.3 MHz
NR FDD Band n5	Voice / Data	826.5 MHz ~ 846.5 MHz
NR TDD Band n41	Voice / Data	2 501.01 MHz ~ 2 685 MHz
NR FDD Band n66	Voice / Data	1712.5 MHz ~ 1777.5 MHz
U-NII-1	Voice / Data	5 180 MHz ~ 5 240 MHz
U-NII-2A	Voice / Data	5 260 MHz ~ 5 320 MHz
U-NII-2C	Voice / Data	5 500 MHz ~ 5 720 MHz
U-NII-3	Voice / Data	5 745 MHz ~ 5 825 MHz
U-NII-4	Voice / Data	5 845 MHz ~ 5 885 MHz
U-NII-5	Voice / Data	5 925 MHz ~ 6 425 MHz
U-NII-6	Voice / Data	6 425 MHz ~ 6 525 MHz
U-NII-7	Voice / Data	6 525 MHz ~ 6 865 MHz
U-NII-8	Voice / Data	6 865 MHz ~ 7 115 MHz
2.4 GHz WLAN	Voice / Data	2 412 MHz ~ 2 472 MHz
Bluetooth / LE 5.4	Data	2 402 MHz ~ 2 480 MHz
NFC	Data	13.56 MHz
WPC	Data	110 kHz ~ 148 kHz

Device Description		
Battery	EB-BS931ABY (SDI)	
Device Serial Numbers	Mode	Serial Number
	GSM850, GSM1900, UMTS Band 5 LTE Band 2,12,13,26,41,66 NR Band n5, n66, n41	XIB0110M, XKI0896M, XIB0096M, XIB0119M, XKI0604M
	WLAN 2.4G, 5G, 6E, BT, NFC	XIB0122M, XIB0212M
	The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units.	

2.1 Time-Averaging for SAR

This device is enabled with Qualcomm® GEN 2 Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 2G/3G/4G/5G NR WWAN and WLAN/BT is in compliance with FCC requirements.

This Part 0 report shows SAR characterization of WWAN radios for 2G/3G/4G and 5G Sub-6 NR and WLAN/BT respectively. Characterization is achieved by determining Plimit for 2G/3G/4G and 5G Sub-6 NR and WLAN/BT correspond to the exposure design targets after accounting for all device design related uncertainties, i.e. SAR_design_target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 2.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time-varying) transmission scenario for WWAN and WLAN/BT technologies are reported in Part 2 report.

2.2 Nomenclature for Part 0 Report

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

3. SAR MEASUREMENTS

3.1 SAR Definition

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

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

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/m³)
 E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

3.2 SAR Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 (see table 3-1) & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

Table 3-1

Frequency	Maximum Area Scan Resolution(mm) (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		
				Δazzoom(n)	Δazzoom(1)*	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5*Δazzoom(n-1)	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5*Δazzoom(n-1)	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5*Δazzoom(n-1)	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5*Δazzoom(n-1)	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5*Δazzoom(n-1)	≥22

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

4. SAR CHARACTERIZATION

4.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 4-1 represent different exposure scenarios.

Table 4-1 DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head (DSI = 1)	Device positioned next to head	Head SAR per KDB Publication 648474 D04
Body Worn Phablet Hotspot (DSI = 0)	Device is held with hand Device being used with a body-worn accessory Device transmits in hotspot mode near body	Phablet SAR per KDB Publication 648474 D04 Body-worn SAR per KDB Publication 648474 D04 Hotspot SAR per KDB Publication 941225 D06

4.2 SAR Design Target

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

<i>SAR_design_target</i>			
$SAR_design_target < SAR_regulatory_limit \times 10^{Total\ Uncertainty/10}$			
1g SAR (W/kg)		10g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB	<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg	<i>SAR_regulatory_limit</i>	4.0 W/kg
<i>SAR_design_target</i>	1.0 W/kg	<i>SAR_design_target</i>	2.5 W/kg

Table 4-2 *SAR_design_target* Calculations

4.3 SAR Characterization

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

Device State Index (DSI)	Plimit Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Phablet SAR measured at 0 mm 2. Body-Worn SAR at 10mm 3. Plimit is calculated based on 1g Hotspot SAR at 10 mm
1	Plimit is calculated based on 1g Head SAR

Table 4-3 *PLimit* Determination

Plim values in green indicate Plimit < Pmax			Plim values in grey indicate Plim > Pmax				Pmax
Plimit corresponding to 1 W/kg (1g) 2.5W/kg(10g) SAR_Design_target							
SAR Exposure Position			Body-worn	Head (RCV ON)	Hotspot (Hotspot on)	Phablet	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
Averaging volume			1g	1g	1g	10g	
seperation Distance			10 mm	0 mm	10 mm	0 mm	
Mode	Band	Antenna	DSI=0	DSI=1	DSI=0	DSI=0	
GSM/GPRS/EDGE	850	MAIN 1	33.1	35.3	31.1	28.0	24.8
GSM/GPRS/EDGE	850	SUB 1	27.3	22.3	27.3	29.8	24.8
GSM/GPRS/EDGE	1900	MAIN 1	20.2	33.2	20.2	20.2	21.8
UMTS	5	MAIN 1	27.7	31.9	27.7	28.5	24.0
UMTS	5	SUB 1	26.6	20.0	26.5	26.3	24.0
LTE FDD	2	MAIN 1	19.0	31.7	19.0	19.0	23.5
LTE FDD	66	MAIN 1	19.5	30.5	19.5	19.5	24.0
LTE FDD	12	MAIN 1	28.5	33.8	28.5	29.3	23.5
LTE FDD	12	SUB 1	26.8	20.5	26.8	25.7	23.5
LTE FDD	13	MAIN 1	31.5	34.2	29.6	28.0	23.5
LTE FDD	13	SUB 1	26.6	21.0	26.6	26.8	23.5
LTE FDD	26	MAIN 1	29.6	32.5	29.4	27.9	24.5
LTE FDD	26	SUB 1	28.0	20.0	27.9	26.9	24.5
LTE FDD	41	MAIN 2	25.8	34.5	23.5	22.1	22.0
LTE FDD	41	SUB 2	18.5	16.0	18.5	18.5	22.0
NR FDD	5	MAIN 1	31.0	33.1	31.0	27.1	24.0
NR FDD	5	SUB 1	28.6	20.0	27.8	25.5	24.0
NR TDD	41	MAIN 2	21.0	21.0	21.0	21.0	24.0
NR TDD	41	SUB 2	20.0	15.0	20.0	20.0	24.0
NR FDD	66	MAIN 1	19.0	31.4	19.0	19.0	23.5
NR FDD	66	SUB 2	21.0	15.0	21.0	21.0	23.5
WLAN	2.4	Sub 4	24.1	14.0	23.1	21.1	17.0
WLAN	2.4	Sub 6	26.3	14.0	26.3	22.4	17.0
WLAN	2.4	Sub 4,6	22.9	14.0	22.5	20.8	17.0
WLAN	5	Sub 4	21.0	14.0	21.0	18.6	17.0
WLAN	5	Sub 1	21.7	14.0	21.7	23.3	17.0
WLAN	5	Sub 1,4	19.7	14.0	19.7	17.5	17.0
WLAN	6	Sub 4	9.0	9.0	9.0	9.0	16.0
WLAN	6	Sub 1	9.0	9.0	9.0	9.0	16.0
WLAN	6	Sub 1,4	9.0	9.0	9.0	9.0	16.0
BT	2.4	Sub 4	25.3	14.0	22.4	22.7	17.0
BT	2.4	Sub 6	25.3	14.0	25.3	23.3	17.0

Table 4-4 SAR Characterization

Note:

1. Compared with the Plimt (Tune up Powers) declared in each DSI by the manufacturer and the plimt (calculation) calculated by the SAR measurement of each DSI, the lower power were applied to the EFS as the plimit at each DSI configurations.
2. When Pmax < Plimit, the DUT will operate at a power level up to Pmax.
3. Maximum Tune up Power,Pmax. Is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV setting for TDD schemes.(GPRS, LTE TDD and WLAN/BT) The EUT maximum allowed output Power is equal to Pmax +1 dB device uncertainty.

5. Equipment List

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
SPEAG	cDASY6 5G Module Phantom		N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli #1-R	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli #3	CS9spe-TX2-90	F/24/0058554/C/001	N/A	N/A	N/A
Staubli #4	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli #6	CS9spe-TX2-90	F/24/0058554/C/002	N/A	N/A	N/A
Staubli #7	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli #8	CS8Cspeag-TX60	F/20/0018446/C/001	N/A	N/A	N/A
Staubli #11	CS8Cspeag-TX60L	F10/5FN3A1/C/01	N/A	N/A	N/A
N/A 1-R	TX90 Xlspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
N/A 3	TX2-90XL spe	F/24/0058554/A/001	N/A	N/A	N/A
N/A 4	TX90 Xlspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
N/A 6	TX2-90XL spe	F/24/0058554/A/002	N/A	N/A	N/A
N/A 7	TX90 Xlspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
N/A 8	TX60 Lspeag	F/20/0018446/A/001	N/A	N/A	N/A
N/A 11	TX90 Xlspeag	F10/5FN3A1/A/01	N/A	N/A	N/A
N/A 1-R	Teach Pendant (Joystick)	D2114210603	N/A	N/A	N/A
N/A 3	Teach Pendant (Joystick)	D211444508	N/A	N/A	N/A
N/A 4	Teach Pendant (Joystick)	D21142606B	N/A	N/A	N/A
N/A 6	Teach Pendant (Joystick)	D211444508	N/A	N/A	N/A
N/A 7	Teach Pendant (Joystick)	D21143300	N/A	N/A	N/A
N/A 8	Teach Pendant (Joystick)	D21142608A	N/A	N/A	N/A
N/A 11	Teach Pendant (Joystick)	D21142602	N/A	N/A	N/A
TESTO 1-R	175-H1/Thermometer	40331936309	12/26/2023	Annual	12/26/2024
TESTO 3	175-H1/Thermometer	40331939309	12/26/2023	Annual	12/26/2024
TESTO 4	175-H1/Thermometer	40331915309	12/26/2023	Annual	12/26/2024
TESTO 6	175-H1/Thermometer	40332651310	12/26/2023	Annual	12/26/2024
TESTO 7	175-H1/Thermometer	40331949309	12/26/2023	Annual	12/26/2024
TESTO 8	175-H1/Thermometer	44606611906	03/20/2024	Annual	03/20/2025
TESTO 11	608-H1/Thermometer	2183499992	11/29/2023	Annual	11/29/2024
SPEAG	DAE4	446	09/03/2024	Annual	09/03/2025
SPEAG	DAE4	504	01/30/2024	Annual	01/30/2025
SPEAG	DAE4	652	01/17/2024	Annual	01/17/2025
SPEAG	DAE4	780	06/19/2024	Annual	06/19/2025
SPEAG	DAE4	1417	02/16/2024	Annual	02/16/2025
SPEAG	DAE4	1686	06/19/2024	Annual	06/19/2025
SPEAG	DAE4	1866	05/02/2024	Annual	05/02/2025
SPEAG	E-Field Probe EX3DV4	7654	05/22/2024	Annual	05/22/2025
SPEAG	E-Field Probe EX3DV4	7655	05/28/2024	Annual	05/28/2025
SPEAG	E-Field Probe EX3DV4	7679	08/22/2024	Annual	08/22/2025
SPEAG	E-Field Probe EX3DV4	7681	11/27/2023	Annual	11/27/2024
SPEAG	E-Field Probe EX3DV4	7751	09/19/2024	Annual	09/19/2025
SPEAG	E-Field Probe ES3DV3	3076	07/17/2024	Annual	07/17/2025
SPEAG	CLA13	1016	09/21/2023	Biennial	09/21/2025
SPEAG	Dipole D750V3	1014	05/20/2024	Annual	05/20/2025
SPEAG	Dipole D835V2	441	04/18/2024	Annual	04/18/2025
SPEAG	Dipole D1800V2	2d007	04/15/2024	Biennial	04/15/2025
SPEAG	Dipole D1900V2	5d032	01/18/2024	Annual	01/18/2025
SPEAG	Dipole D2300V2	1010	07/19/2023	Biennial	07/19/2025
SPEAG	Dipole D2450V2	743	03/14/2024	Annual	03/14/2025
SPEAG	Dipole D2600V2	1015	04/22/2024	Annual	04/22/2025
SPEAG	Dipole D5 GHz V2	1107	04/19/2024	Annual	04/19/2025
SPEAG	Dipole D6.5 GHz V2	1012	09/17/2024	Annual	09/17/2025

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	Power Meter E4419B	MY41291386	09/11/2024	Annual	09/11/2025
Agilent	Power Meter N1911A	MY45101406	05/21/2024	Annual	05/21/2025
Agilent	Power Sensor 8481A	SG1091286	09/12/2024	Annual	09/12/2025
H.P	Power Sensor 8481A	MY41090675	09/12/2024	Annual	09/12/2025
Agilent	Wideband Power Sensor N1921A	MY55220026	07/30/2024	Annual	07/30/2025
Agilent	11636B/Power Divider	58698	01/15/2024	Annual	01/15/2025
SPEAG	DAKS 3.5	1038	01/22/2024	Annual	01/22/2025
SPEAG	Vector Reflectometer	141013	01/11/2024	Annual	01/11/2025
SPEAG	DAKS 12	1048	03/20/2024	Annual	03/20/2025
SPEAG	MXA Signal Analyzer	MY49100108	01/09/2024	Annual	01/09/2025
H.P	Network Analyzer /8753ES	JP39240221	12/26/2024	Annual	12/26/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/29/2024	Annual	07/29/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/22/2024	Annual	05/22/2025
R&S	Wireless Communication Test Set CMW500	115733	03/19/2024	Annual	03/19/2025
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/19/2024	Annual	03/19/2025
EMPOWER	RF Power Amplifier	1084	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1041D/C0508	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1011	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-15N	10453	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-30N	-	09/11/2024	Annual	09/11/2025
MICRO LAB	LP Filter / LA-60N	32011	09/11/2024	Annual	09/11/2025
Agilent	Attenuator (3dB) 8693B	MY39260298	08/20/2024	Annual	08/20/2025
HP	Attenuator (20dB) 8493C	09271	08/20/2024	Annual	08/20/2025
Agilent	Directional Bridge 86205A	3140A04581	04/22/2024	Annual	04/22/2025
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/04/2024	Annual	06/04/2025
KEYSIGHT	EXG Vector Signal Generator	MY50350097	03/05/2024	Annual	03/05/2025
HP	Dual Directional Coupler	16072	09/11/2024	Annual	09/11/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Tester MT8820C	6201074225	01/17/2024	Annual	01/17/2025
Anritsu	Radio Communication Tester MT8820C	6200695605	03/19/2024	Annual	03/19/2025
Anritsu	Radio Communication Tester MT8821C	6201502997	05/21/2024	Annual	05/21/2025
Anritsu	Radio Communication Tester MT8821C	6262044720	11/28/2023	Annual	11/28/2024
Anritsu	Radio Communication Tester MT8821C	6201664725	01/17/2024	Annual	01/17/2025
ROHDE&SCHWARZ	BLUETOOTH TESTER CBT	100272	01/16/2024	Annual	01/16/2025

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

6. Measurement Uncertainty

Measurement Uncertainty for handset SAR test									
According to IEC/IEEE 62209-1528									
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	$\frac{h}{c \times f / e}$	$\frac{i}{c \times g / e}$	<i>k</i>
Source of uncertainty	Symbol	Uncertainty $\pm \%$	Probability distribution	Div.	<i>c_i</i>	<i>c_i</i>	Standard Uncertainty $\pm \%$ (1 g)	Standard Uncertainty $\pm \%$ (10 g)	<i>v_i</i> or <i>v_{eff}</i>
Description					(1 g)	(10 g)			
Measurement system									
Probe calibration	CF	14.00	N	2	1	1	7.00	7.00	∞
Probe Calibration Drift	CFdrift	1.70	N	1	1	1	1.00	1.00	∞
Probe Linearity	LIN	4.70	R	1.73	1.00	1.00	2.71	2.71	∞
Broadband Signal	BBS	3.00	R	1.73	1.00	1.00	1.73	1.73	∞
Probe Isotropy	ISO	7.60	R	1.73	1	1	4.39	4.39	∞
Data Acquisition	DAE	1.20	N	1	1	1	1.20	1.20	∞
RF Ambient	AMB	1.80	N	1	1	1	1.80	1.80	∞
Probe Positioning	Δ_{sys}	0.20	N	1	0.33	0.33	0.07	0.07	∞
Data Processing	DAT	2.30	N	1	1	1	2.30	2.30	∞
Phantom and Device Errors									
Conductivity (meas.)DAK	LIQ(σ)	2.50	N	1	0.78	0.71	1.95	1.78	∞
Conductivity (temp.)BB	LIQ(T σ)	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Phantom Permittivity	EPS	14.00	R	1.73	0.25	0.25	2.02	2.02	∞
Distance DUT - TSL	DAS	2.00	N	1	2	2	4.00	4.00	∞
Device Holder	H	3.60	N	1	1	1	3.60	3.60	∞
DUT Modulation	MOD	2.40	R	1.73	1	1	1.39	1.39	∞
DUT drift	RFdrift	2.50	N	1	1	1	2.50	2.50	∞
Deviation to Target	C(ϵ , σ)	1.90	N	1	1	0.84	1.90	1.60	∞
SAR scaling	C(R)	0.00	R	1.73	1	1	0.00	0.00	∞
Combined standard uncertainty	u(Δ SAR)		RSS				11.81	11.72	
Expanded uncertainty (95% confidence interval)	U		$k = 2$				23.62	23.44	

Appendix A: SAR Test Results for P limit CALCULATIONS

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

MEASUREMENT RESULTS										
Frequency		Mode/ Band		Ant.	Frame Averaged Conducted Power	Test Position	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
					(dBm)			(W/kg)	(dBm)	(dBm)
824.2	128	GSM 850 Lower	GPRS 2Tx	MAIN1	25.74	Left Cheek	1:4.15	0.103	35.6	35.3
824.2	128	GSM 850 Lower		MAIN1	25.74	Left Tilt	1:4.15	0.065	37.6	
824.2	128	GSM 850 Lower		MAIN1	25.74	Right Cheek	1:4.15	0.111	35.3	
824.2	128	GSM 850 Lower		MAIN1	25.74	Right Tilt	1:4.15	0.064	37.7	
836.6	190	GSM 850 Upper	GPRS 2Tx	SUB1	21.87	Left Cheek	1:4.15	0.434	25.5	25.5
836.6	190	GSM 850 Upper		SUB1	21.87	Left Tilt	1:4.15	0.331	26.7	
836.6	190	GSM 850 Upper		SUB1	21.87	Right Cheek	1:4.15	0.375	26.1	
836.6	190	GSM 850 Upper		SUB1	21.87	Right Tilt	1:4.15	0.327	26.7	
1880.0	661	GSM 1900	GPRS 2Tx	MAIN1	22.52	Left Cheek	1:4.15	0.085	33.2	33.2
1880.0	661	GSM 1900		MAIN1	22.52	Left Tilt	1:4.15	0.030	37.7	
1880.0	661	GSM 1900		MAIN1	22.52	Right Cheek	1:4.15	0.042	36.3	
1880.0	661	GSM 1900		MAIN1	22.52	Right Tilt	1:4.15	0.027	38.2	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Left Cheek	1:1	0.120	33.0	31.9
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Left Tilt	1:1	0.076	35.0	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Right Cheek	1:1	0.156	31.9	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Right Tilt	1:1	0.081	34.8	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	20.64	Left Cheek	1:1	0.743	21.9	21.6
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	20.64	Left Tilt	1:1	0.810	21.6	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	20.64	Right Cheek	1:1	0.624	22.7	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	20.64	Right Tilt	1:1	0.592	22.9	

Table A-2 DSI = 1 *PLimit* Calculations – 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)		
1 860	18700	LTE Band 2 Lower	MAIN1	20	23.74	Left Cheek	0	1	0	1:1	0.160	31.7	31.7
1 860	18700	LTE Band 2 Lower	MAIN1	20	23.74	Left Tilt	0	1	0	1:1	0.059	36.0	
1 860	18700	LTE Band 2 Lower	MAIN1	20	23.74	Right Cheek	0	1	0	1:1	0.104	33.6	
1 860	18700	LTE Band 2 Lower	MAIN1	20	23.74	Right Tilt	0	1	0	1:1	0.060	36.0	
1 720	132072	LTE Band 66 Lower	MAIN1	20	23.50	Left Cheek	0	1	99	1:1	0.199	30.5	30.5
1 720	132072	LTE Band 66 Lower	MAIN1	20	23.50	Left Tilt	0	1	99	1:1	0.079	34.5	
1 720	132072	LTE Band 66 Lower	MAIN1	20	23.50	Right Cheek	0	1	99	1:1	0.087	34.1	
1 720	132072	LTE Band 66 Lower	MAIN1	20	23.50	Right Tilt	0	1	99	1:1	0.077	34.6	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Left Cheek	0	1	0	1:1	0.069	34.5	33.8
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Left Tilt	0	1	0	1:1	0.018	40.3	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Right Cheek	0	1	0	1:1	0.081	33.8	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Right Tilt	0	1	0	1:1	0.031	38.0	
707.5	23095	LTE Band 12 Upper	SUB1	10	20.37	Left Cheek	0	1	24	1:1	0.757	21.6	21.6
707.5	23095	LTE Band 12 Upper	SUB1	10	20.37	Left Tilt	0	1	24	1:1	0.547	23.0	
707.5	23095	LTE Band 12 Upper	SUB1	10	20.37	Right Cheek	0	1	24	1:1	0.645	22.3	
707.5	23095	LTE Band 12 Upper	SUB1	10	20.37	Right Tilt	0	1	24	1:1	0.512	23.3	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Left Cheek	0	1	49	1:1	0.072	34.2	34.2
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Left Tilt	0	1	49	1:1	0.035	37.4	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Right Cheek	0	1	49	1:1	0.060	35.0	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Right Tilt	0	1	49	1:1	0.034	37.5	
782	23230	LTE Band 13 Upper	SUB1	10	20.52	Left Cheek	0	1	24	1:1	0.744	21.8	21.8
782	23230	LTE Band 13 Upper	SUB1	10	20.52	Left Tilt	0	1	24	1:1	0.565	23.0	
782	23230	LTE Band 13 Upper	SUB1	10	20.52	Right Cheek	0	1	24	1:1	0.652	22.4	
782	23230	LTE Band 13 Upper	SUB1	10	20.52	Right Tilt	0	1	24	1:1	0.522	23.3	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Left Cheek	0	1	36	1:1	0.126	33.2	32.5
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Left Tilt	0	1	36	1:1	0.083	35.0	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Right Cheek	0	1	36	1:1	0.147	32.5	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Right Tilt	0	1	36	1:1	0.080	35.2	
831.5	26865	LTE Band 26 Lower	SUB1	15	19.64	Left Cheek	0	1	36	1:1	0.632	21.6	21.6
831.5	26865	LTE Band 26 Lower	SUB1	15	19.64	Left Tilt	0	1	36	1:1	0.471	22.9	
831.5	26865	LTE Band 26 Lower	SUB1	15	19.64	Right Cheek	0	1	36	1:1	0.510	22.6	
831.5	26865	LTE Band 26 Lower	SUB1	15	19.64	Right Tilt	0	1	36	1:1	0.434	23.3	
2 680	41490	LTE Band 41 Lower	MAIN2	20	22.02	Left Cheek	0	1	49	1:1.58	0.056	34.5	34.5
2 680	41490	LTE Band 41 Lower	MAIN2	20	22.02	Left Tilt	0	1	49	1:1.58	0.025	38.0	
2 680	41490	LTE Band 41 Lower	MAIN2	20	22.02	Right Cheek	0	1	49	1:1.58	0.047	35.3	
2 680	41490	LTE Band 41 Lower	MAIN2	20	22.02	Right Tilt	0	1	49	1:1.58	0.023	38.4	
2 680	41490	LTE Band 41 Upper	SUB2	20	15.98	Left Cheek	0	1	49	1:1.58	0.221	22.5	16.9
2 680	41490	LTE Band 41 Upper	SUB2	20	15.98	Left Tilt	0	1	49	1:1.58	0.340	20.7	
2 680	41490	LTE Band 41 Upper	SUB2	20	15.98	Right Cheek	0	1	49	1:1.58	0.548	18.6	
2 680	41490	LTE Band 41 Upper	SUB2	20	15.98	Right Tilt	0	1	49	1:1.58	0.819	16.9	

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

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

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

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

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
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.118	33.1	33.1
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.017	41.5	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.058	36.1	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.031	38.9	
836.5	167300	NR Band n5 Upper	SUB1	20	20.57	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.772	21.7	21.7
836.5	167300	NR Band n5 Upper	SUB1	20	20.57	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.657	22.4	
836.5	167300	NR Band n5 Upper	SUB1	20	20.57	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.445	24.1	
836.5	167300	NR Band n5 Upper	SUB1	20	20.57	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.465	23.9	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.051	34.4	34.4
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.020	38.4	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.033	36.3	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.020	38.4	
2 592.99	518598	NR Band 41 Upper	SUB2	100	15.68	Left Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.192	22.8	19.5
2 592.99	518598	NR Band 41 Upper	SUB2	100	15.68	Left Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.327	20.5	
2 592.99	518598	NR Band 41 Upper	SUB2	100	15.68	Right Cheek	DFT-s-OFDM QPSK	0	1	271	1:1	0.291	21.0	
2 592.99	518598	NR Band 41 Upper	SUB2	100	15.68	Right Tilt	DFT-s-OFDM QPSK	0	1	271	1:1	0.413	19.5	
1 745	349000	NR Band 66 Lower	MAIN1	40	23.48	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.160	31.4	31.4
1 745	349000	NR Band 66 Lower	MAIN1	40	23.48	Left Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.076	34.7	
1 745	349000	NR Band 66 Lower	MAIN1	40	23.48	Right Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.095	33.7	
1 745	349000	NR Band 66 Lower	MAIN1	40	23.48	Right Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.054	36.2	
1 745	349000	NR Band 66 Upper	SUB2	40	15.16	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.099	25.2	23.0
1 745	349000	NR Band 66 Upper	SUB2	40	15.16	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.138	23.8	
1 745	349000	NR Band 66 Upper	SUB2	40	15.16	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.165	23.0	
1 745	349000	NR Band 66 Upper	SUB2	40	15.16	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.166	23.0	

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

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
Mhz	Ch.				(Mbps)					(W/kg)		(dBm)	
2 462	11	802.11b	20	SUB4	1	14.31	Left Cheek	WIFI1	98.8	0.118	1.012	23.6	18.0
2 462	11	802.11b	20	SUB4	1	14.31	Left Tilt	WIFI1	98.8	0.142	1.012	22.8	
2 462	11	802.11b	20	SUB4	1	14.31	Right Cheek	WIFI1	98.8	0.423	1.012	18.0	
2 462	11	802.11b	20	SUB4	1	14.31	Right Tilt	WIFI1	98.8	0.374	1.012	18.6	
2 412	1	802.11b	20	SUB6	1	14.07	Left Cheek	WIFI2	98.8	0.444	1.012	17.6	17.6
2 412	1	802.11b	20	SUB6	1	14.07	Left Tilt	WIFI2	98.8	0.045	1.012	27.5	
2 412	1	802.11b	20	SUB6	1	14.07	Right Cheek	WIFI2	98.8	0.301	1.012	19.3	
2 412	1	802.11b	20	SUB6	1	14.07	Right Tilt	WIFI2	98.8	0.027	1.012	29.8	
2 462	11	802.11b	20	S4+S6	1	13.98	Left Cheek	MIMO	98.8	0.398	1.012	18.0	18.0
2 462	11	802.11b	20	S4+S6	1	13.98	Left Tilt	MIMO	98.8	0.149	1.012	22.2	
2 462	11	802.11b	20	S4+S6	1	13.98	Right Cheek	MIMO	98.8	0.377	1.012	18.2	
2 462	11	802.11b	20	S4+S6	1	13.98	Right Tilt	MIMO	98.8	0.346	1.012	18.6	
5 290	58	802.11ax	80	SUB4	MCS0	14.92	Left Cheek	WIFI1	99.6	0.189	1.004	22.2	17.3
5 290	58	802.11ax	80	SUB4	MCS0	14.92	Left Tilt	WIFI1	99.6	0.208	1.004	21.7	
5 290	58	802.11ax	80	SUB4	MCS0	14.92	Right Cheek	WIFI1	99.6	0.581	1.004	17.3	
5 290	58	802.11ax	80	SUB4	MCS0	14.92	Right Tilt	WIFI1	99.6	0.417	1.004	18.7	
5 290	58	802.11ax	80	SUB1	MCS0	14.07	Left Cheek	WIFI2	99.6	0.202	1.004	21.0	20.1
5 290	58	802.11ax	80	SUB1	MCS0	14.07	Left Tilt	WIFI2	99.6	0.248	1.004	20.1	
5 290	58	802.11ax	80	SUB1	MCS0	14.07	Right Cheek	WIFI2	99.6	0.077	1.004	25.2	
5 290	58	802.11ax	80	SUB1	MCS0	14.07	Right Tilt	WIFI2	99.6	0.082	1.004	24.9	
5 290	58	802.11ax	80	S4+S1	MCS0	14.07	Left Cheek	MIMO	99.6	0.245	1.004	20.2	15.5
5 290	58	802.11ax	80	S4+S1	MCS0	14.07	Left Tilt	MIMO	99.6	0.269	1.004	19.8	
5 290	58	802.11ax	80	S4+S1	MCS0	14.07	Right Cheek	MIMO	99.6	0.718	1.004	15.5	
5 290	58	802.11ax	80	S4+S1	MCS0	14.07	Right Tilt	MIMO	99.6	0.530	1.004	16.8	
5 690	138	802.11ac80	80	SUB4	MCS0	14.24	Left Cheek	WIFI1	92.0	0.075	1.087	25.5	17.7
5 690	138	802.11ac80	80	SUB4	MCS0	14.24	Left Tilt	WIFI1	92.0	0.062	1.087	26.3	
5 690	138	802.11ac80	80	SUB4	MCS0	14.24	Right Cheek	WIFI1	92.0	0.452	1.087	17.7	
5 690	138	802.11ac80	80	SUB4	MCS0	14.24	Right Tilt	WIFI1	92.0	0.223	1.087	20.8	
5 610	122	802.11ac80	80	SUB1	MCS0	14.82	Left Cheek	WIFI2	92.0	0.097	1.087	25.0	21.8
5 610	122	802.11ac80	80	SUB1	MCS0	14.82	Left Tilt	WIFI2	92.0	0.088	1.087	25.4	
5 610	122	802.11ac80	80	SUB1	MCS0	14.82	Right Cheek	WIFI2	92.0	0.017	1.087	32.5	
5 610	122	802.11ac80	80	SUB1	MCS0	14.82	Right Tilt	WIFI2	92.0	0.200	1.087	21.8	
5 690	138	802.11ac80	80	S4+S1	MCS0	13.81	Left Cheek	MIMO	92.1	0.136	1.087	22.5	17.4
5 690	138	802.11ac80	80	S4+S1	MCS0	13.81	Left Tilt	MIMO	92.1	0.109	1.087	23.4	
5 690	138	802.11ac80	80	S4+S1	MCS0	13.81	Right Cheek	MIMO	92.1	0.434	1.087	17.4	
5 690	138	802.11ac80	80	S4+S1	MCS0	13.81	Right Tilt	MIMO	92.1	0.209	1.087	20.6	
5 775	155	802.11ac80	80	SUB4	MCS0	14.38	Left Cheek	WIFI1	92.0	0.072	1.087	25.8	17.2
5 775	155	802.11ac80	80	SUB4	MCS0	14.38	Left Tilt	WIFI1	92.0	0.070	1.087	25.9	
5 775	155	802.11ac80	80	SUB4	MCS0	14.38	Right Cheek	WIFI1	92.0	0.522	1.087	17.2	
5 775	155	802.11ac80	80	SUB4	MCS0	14.38	Right Tilt	WIFI1	92.0	0.199	1.087	21.4	
5 775	155	802.11ac80	80	SUB1	MCS0	14.67	Left Cheek	WIFI2	92.0	0.157	1.087	22.7	22.7
5 775	155	802.11ac80	80	SUB1	MCS0	14.67	Left Tilt	WIFI2	92.0	0.132	1.087	23.5	
5 775	155	802.11ac80	80	SUB1	MCS0	14.67	Right Cheek	WIFI2	92.0	0.036	1.087	29.1	
5 775	155	802.11ac80	80	SUB1	MCS0	14.67	Right Tilt	WIFI2	92.0	0.025	1.087	30.7	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5 775	155	802.11ac80	80	S4+S1	MCS0	13.96	Left Cheek	MIMO	92.1	0.157	1.087	22.0	16.6
5 775	155	802.11ac80	80	S4+S1	MCS0	13.96	Left Tilt	MIMO	92.1	0.101	1.087	23.9	
5 775	155	802.11ac80	80	S4+S1	MCS0	13.96	Right Cheek	MIMO	92.1	0.550	1.087	16.6	
5 775	155	802.11ac80	80	S4+S1	MCS0	13.96	Right Tilt	MIMO	92.1	0.176	1.087	21.5	
5 855	171	802.11ac80	80	SUB4	MCS0	14.11	Left Cheek	WIFI1	92.0	0.083	1.087	24.9	16.8
5 855	171	802.11ac80	80	SUB4	MCS0	14.11	Left Tilt	WIFI1	92.0	0.051	1.087	27.0	
5 855	171	802.11ac80	80	SUB4	MCS0	14.11	Right Cheek	WIFI1	92.0	0.541	1.087	16.8	
5 855	171	802.11ac80	80	SUB4	MCS0	14.11	Right Tilt	WIFI1	92.0	0.203	1.087	21.0	
5 855	171	802.11ac80	80	SUB1	MCS0	14.16	Left Cheek	WIFI2	92.0	0.177	1.087	21.7	21.7
5 855	171	802.11ac80	80	SUB1	MCS0	14.16	Left Tilt	WIFI2	92.0	0.161	1.087	22.1	
5 855	171	802.11ac80	80	SUB1	MCS0	14.16	Right Cheek	WIFI2	92.0	0.046	1.087	27.5	
5 855	171	802.11ac80	80	SUB1	MCS0	14.16	Right Tilt	WIFI2	92.0	0.046	1.087	27.5	
5 855	171	802.11ac80	80	S4+S1	MCS0	13.90	Left Cheek	MIMO	92.1	0.161	1.087	21.8	15.9
5 855	171	802.11ac80	80	S4+S1	MCS0	13.90	Left Tilt	MIMO	92.1	0.092	1.087	24.3	
5 855	171	802.11ac80	80	S4+S1	MCS0	13.90	Right Cheek	MIMO	92.1	0.624	1.087	15.9	
5 855	171	802.11ac80	80	S4+S1	MCS0	13.90	Right Tilt	MIMO	92.1	0.204	1.087	20.8	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Left Cheek	WIFI1	99.7	0.017	1.003	26.7	22.0
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Left Tilt	WIFI1	99.7	0.017	1.003	26.7	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Right Cheek	WIFI1	99.7	0.036	1.003	23.5	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Right Tilt	WIFI1	99.7	0.050	1.003	22.0	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Left Cheek	WIFI2	99.7	0.080	1.003	20.4	20.4
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Left Tilt	WIFI2	99.7	0.048	1.003	22.7	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Right Cheek	WIFI2	99.7	0.016	1.003	27.4	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Right Tilt	WIFI2	99.7	0.016	1.003	27.4	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Left Cheek	MIMO	99.7	0.078	1.003	20.1	19.5
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Left Tilt	MIMO	99.7	0.090	1.003	19.5	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Right Cheek	MIMO	99.7	0.039	1.003	23.1	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Right Tilt	MIMO	99.7	0.037	1.003	23.3	

MEASUREMENT RESULTS										
Frequency		Mode/ Band	Ant. No.	Frame Averaged Conducted Power	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.			(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2 441	39	DH-5	SUB4	13.93	Left Cheek		0.154	1.030	22.1	16.6
2 441	39	DH-5	SUB4	13.93	Left Tilt		0.192	1.030	21.1	
2 441	39	DH-5	SUB4	13.93	Right Cheek		0.547	1.030	16.6	
2 441	39	DH-5	SUB4	13.93	Right Tilt		0.200	1.030	20.9	
2 441	39	DH-5	SUB6	13.61	Left Cheek		0.514	1.030	16.5	16.5
2 441	39	DH-5	SUB6	13.61	Left Tilt		0.078	1.030	24.7	
2 441	39	DH-5	SUB6	13.61	Right Cheek		0.358	1.030	18.1	
2 441	39	DH-5	SUB6	13.61	Right Tilt		0.017	1.030	31.3	

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

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

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.				(dBm)				(W/kg)	(dBm)	(dBm)
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Rear	10	1:4.15	0.178	33.2	33.1
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Front	10	1:4.15	0.183	33.1	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Rear	10	1:4.15	0.684	27.3	27.3
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Front	10	1:4.15	0.512	28.5	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Rear	10	1:2.77	0.360	24.2	24.2
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Front	10	1:2.77	0.276	25.4	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Rear	10	1:1	0.414	27.7	27.7
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Front	10	1:1	0.361	28.3	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Rear	10	1:1	0.506	26.6	26.6
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Front	10	1:1	0.432	27.3	

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

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

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
				MHz	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Rear	10	0	1	0	1:1	0.358	23.7	23.6
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Front	10	0	1	0	1:1	0.367	23.6	
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Rear	10	0	1	99	1:1	0.471	22.9	22.9
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Front	10	0	1	99	1:1	0.339	24.3	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Rear	10	0	1	0	1:1	0.272	28.5	28.5
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Front	10	0	1	0	1:1	0.123	32.0	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Rear	10	0	1	24	1:1	0.436	26.8	26.8
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Front	10	0	1	24	1:1	0.385	27.3	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Rear	10	0	1	49	1:1	0.134	31.5	31.5
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Front	10	0	1	49	1:1	0.116	32.2	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Rear	10	0	1	24	1:1	0.423	26.6	26.6
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Front	10	0	1	24	1:1	0.325	27.7	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Rear	10	0	1	36	1:1	0.291	29.6	29.6
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Front	10	0	1	36	1:1	0.213	30.9	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Rear	10	0	1	36	1:1	0.418	28.0	28.0
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Front	10	0	1	36	1:1	0.313	29.2	
2 680	41490	LTE Band 41 Lower	MAIN2	20	22.02	Rear	10	0	1	0	1:1.58	0.416	25.8	25.8
2 680	41490	LTE Band 41 Lower	MAIN2	20	22.02	Front	10	0	1	0	1:1.58	0.307	27.2	
2 680	41490	LTE Band 41 Upper	SUB2	20	18.62	Rear	10	0	1	0	1:1.58	0.270	24.3	24.3
2 680	41490	LTE Band 41 Upper	SUB2	20	18.62	Front	10	0	1	0	1:1.58	0.198	25.7	

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

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

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

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

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing	RB	RB	Duty	Meas. SAR(Ig)	Plimit	Minimum Plimit
MHz	Ch.			MHz	(dBm)			(dB)	(mm)	Size	offset	Cycle	(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.191	31.0	31.0
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.105	33.6	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.326	28.6	28.6
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.233	30.0	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.358	25.9	25.9
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.271	27.1	
2 592.99	518598	NR Band 41 Upper	SUB1	100	20.28	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.26	26.0	26.0
2 592.99	518598	NR Band 41 Upper	SUB1	100	20.28	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.166	28.1	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Rear	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.427	22.9	22.9
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Front	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.349	23.8	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.179	28.7	28.7
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.117	30.5	

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

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width (MHz)	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
2 412	1	802.11b	20	SUB4	1	16.70	Rear	WIFI1	98.8	0.180	1.012	24.1	24.1
2 412	1	802.11b	20	SUB4	1	16.70	Front	WIFI1	98.8	0.182	1.012	24.1	
2 412	1	802.11b	20	SUB6	1	17.58	Rear	WIFI2	98.8	0.088	1.012	28.1	26.3
2 412	1	802.11b	20	SUB6	1	17.58	Front	WIFI2	98.8	0.133	1.012	26.3	
2 412	1	802.11b	20	S4+S6	1	16.70	Rear	MIMO	98.8	0.234	1.012	23.0	22.9
2 412	1	802.11b	20	S4+S6	1	16.70	Front	MIMO	98.8	0.240	1.012	22.9	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Rear	WIFI1	92.5	0.318	1.081	22.3	22.3
5 270	54	802.11n	40	SUB4	MCS0	17.31	Front	WIFI1	92.5	0.167	1.081	25.1	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Rear	WIFI2	92.5	0.264	1.081	23.5	23.5
5 270	54	802.11n	40	SUB1	MCS0	17.72	Front	WIFI2	92.5	0.057	1.081	30.2	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Rear	MIMO	92.5	0.366	1.081	21.6	21.6
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Front	MIMO	92.5	0.178	1.081	24.8	
5 690	138	802.11ac	80	SUB4	MCS0	17.35	Rear	WIFI1	92.1	0.334	1.086	22.1	22.1
5 690	138	802.11ac	80	SUB4	MCS0	17.35	Front	WIFI1	92.1	0.124	1.086	26.4	
5 690	138	802.11ac	80	SUB1	MCS0	17.87	Rear	WIFI2	92.1	0.417	1.086	21.7	21.7
5 690	138	802.11ac	80	SUB1	MCS0	17.87	Front	WIFI2	92.1	0.035	1.086	32.4	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Rear	MIMO	92.1	0.114	1.086	26.5	26.5
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Front	MIMO	92.1	0.066	1.086	28.9	
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Rear	WIFI1	92.1	0.430	1.086	21.2	21.2
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Front	WIFI1	92.1	0.143	1.086	26.0	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Rear	WIFI2	92.1	0.244	1.086	23.7	23.7
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Front	WIFI2	92.1	0.031	1.086	32.7	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Rear	MIMO	92.1	0.476	1.086	20.5	20.5
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Front	MIMO	92.1	0.180	1.086	24.7	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Rear	WIFI1	92.1	0.429	1.086	21.0	21.0
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Front	WIFI1	92.1	0.232	1.086	23.7	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Rear	WIFI2	92.1	0.262	1.086	23.0	23.0
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Front	WIFI2	92.1	0.055	1.086	29.8	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Rear	MIMO	92.1	0.554	1.086	19.7	19.7
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Front	MIMO	92.1	0.326	1.086	22.0	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Rear	WIFI1	99.7	0.0165	1.003	25.4	25.4
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Front	WIFI1	99.7	0.0038	1.003	30.6	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Rear	WIFI2	99.7	0.020	1.003	26.5	26.5
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Front	WIFI2	99.7	0.001	1.003	39.5	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Rear	MIMO	99.7	0.036	1.003	23.5	23.5
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Front	MIMO	99.7	0.003	1.003	34.2	

MEASUREMENT RESULTS

Frequency		Mode/ Band	Ant. No.	Frame Averaged Conducted Power	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.			(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2 441	39	DH5	SUB4	17.58	Rear	WIFI1	0.169	1.030	25.3	25.3
2 441	39	DH5	SUB4	17.58	Front	WIFI1	0.083	1.030	28.4	
2 441	39	DH5	SUB6	17.85	Rear	WIFI2	0.070	1.030	29.4	25.3
2 441	39	DH5	SUB6	17.85	Front	WIFI2	0.180	1.030	25.3	

Table A-9 DSI = 0 *P*_{Limit} Calculations – 2G/3G Hotspot SAR

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

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
					(dBm)				(W/kg)	(dBm)	(dBm)
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Rear	10	1:4.15	0.178	33.2	31.1
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Front	10	1:4.15	0.183	33.1	
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Left	10	1:4.15	0.260	31.6	
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Right	10	1:4.15	0.289	31.1	
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Bottom	10	1:4.15	0.0431	39.4	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Rear	10	1:4.15	0.684	27.3	27.3
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Front	10	1:4.15	0.512	28.5	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Right	10	1:4.15	0.630	27.6	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Top	10	1:4.15	0.458	29.0	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Rear	10	1:4.15	0.360	24.2	20.7
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Front	10	1:4.15	0.276	25.4	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Left	10	1:4.15	0.064	31.7	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Right	10	1:4.15	0.042	33.6	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Bottom	10	1:4.15	0.817	20.7	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Rear	10	1:1	0.414	27.7	27.7
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Front	10	1:1	0.361	28.3	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Left	10	1:1	0.073	35.2	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Right	10	1:1	0.231	30.2	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Bottom	10	1:1	0.013	42.7	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Rear	10	1:1	0.506	26.6	26.5
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Front	10	1:1	0.432	27.3	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Right	10	1:1	0.511	26.5	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Top	10	1:1	0.278	29.2	

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

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

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB	RB	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
Mhz	Ch.			Mhz	(dBm)			(dB)	Size	offset		(W/kg)	(dBm)	
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Rear	10	0	1	0	1:1	0.358	23.7	20.3
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Front	10	0	1	0	1:1	0.367	23.6	
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Left	10	0	1	0	1:1	0.076	30.5	
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Right	10	0	1	0	1:1	0.090	29.7	
1 860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Bottom	10	0	1	0	1:1	0.791	20.3	
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Rear	10	0	1	99	1:1	0.471	22.9	20.6
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Front	10	0	1	99	1:1	0.339	24.3	
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Left	10	0	1	99	1:1	0.116	29.0	
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Right	10	0	1	99	1:1	0.059	31.9	
1 720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Bottom	10	0	1	99	1:1	0.805	20.6	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Rear	10	0	1	0	1:1	0.272	28.5	28.5
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Front	10	0	1	0	1:1	0.123	32.0	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Left	10	0	1	0	1:1	0.115	32.3	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Right	10	0	1	0	1:1	0.011	42.5	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Bottom	10	0	1	0	1:1	0.075	34.1	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Rear	10	0	1	24	1:1	0.436	26.8	26.8
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Front	10	0	1	24	1:1	0.385	27.3	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Left	10	0	1	24	1:1	0.097	33.3	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Right	10	0	1	24	1:1	0.146	31.5	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Top	10	0	1	24	1:1	0.209	30.0	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Rear	10	0	1	49	1:1	0.134	31.5	29.6
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Front	10	0	1	49	1:1	0.116	32.2	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Left	10	0	1	49	1:1	0.209	29.6	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Right	10	0	1	49	1:1	0.115	32.2	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Bottom	10	0	1	49	1:1	0.035	37.4	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Rear	10	0	1	24	1:1	0.423	26.6	26.6
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Front	10	0	1	24	1:1	0.325	27.7	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Left	10	0	1	24	1:1	0.087	33.4	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Right	10	0	1	24	1:1	0.366	27.2	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Top	10	0	1	24	1:1	0.337	27.6	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Rear	10	0	1	36	1:1	0.291	29.6	29.4
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Front	10	0	1	36	1:1	0.213	30.9	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Left	10	0	1	36	1:1	0.305	29.4	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Right	10	0	1	36	1:1	0.063	36.2	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Bottom	10	0	1	36	1:1	0.055	36.8	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Rear	10	0	1	36	1:1	0.418	28.0	27.9
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Front	10	0	1	36	1:1	0.313	29.2	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Left	10	0	1	36	1:1	0.082	35.0	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Right	10	0	1	36	1:1	0.329	29.0	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Top	10	0	1	36	1:1	0.420	27.9	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB	RB	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.			MHz	(dBm)			(dB)	Size	offset		(W/kg)	(dBm)	(dBm)
2 680	41490	LTE Band 41 Lower	MAIN1	20	22.02	Back	10	0	1	0	1:1.58	0.416	25.8	23.5
2 680	41490	LTE Band 41 Lower	MAIN1	20	22.02	Front	10	0	1	0	1:1.58	0.307	27.2	
2 680	41490	LTE Band 41 Lower	MAIN1	20	22.02	Left	10	0	1	0	1:1.58	0.713	23.5	
2 680	41490	LTE Band 41 Lower	MAIN1	20	22.02	Bottom	10	0	1	0	1:1.58	0.572	24.5	
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Back	10	0	1	0	1:1.58	0.270	24.3	23.9
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Front	10	0	1	0	1:1.58	0.198	25.7	
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Left	10	0	1	0	1:1.58	0.021	35.4	
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Top	10	0	1	0	1:1.58	0.295	23.9	

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

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

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

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

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged	Test Position		MPR	Spacing	RB	RB	Duty	Meas. SAR(1g)	Plimit	Minimum
Mhz	Ch.			Mhz	Conducted Power			(dB)	(mm)	Size	offset	Cycle	(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.191	31.0	31.0
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.105	33.6	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.071	35.3	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.054	36.5	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Bottom	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.048	37.0	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.326	28.6	27.8
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.233	30.0	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.172	31.3	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Right	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.385	27.8	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.341	28.4	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.358	25.9	22.4
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.271	27.1	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.271	27.1	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Bottom	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.809	22.4	
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Rear	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.269	26.0	24.0
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Front	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.166	28.1	
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Left	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.031	35.4	
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Top	DFT-s-OFDM QPSK	0	10	1	271	1:1	0.420	24.0	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Rear	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.427	22.9	21.1
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Front	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.349	23.8	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Left	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.114	28.7	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Right	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.056	31.8	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Bottom	DFT-s-OFDM QPSK	0	10	1	108	1:1	0.655	21.1	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Rear	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.179	28.7	27.7
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Front	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.117	30.5	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Left	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.057	33.7	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Top	DFT-s-OFDM QPSK	0	10	1	1	1:1	0.228	27.7	

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

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.		(MHz)		(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
2 412	1	802.11b	20	SUB4	1	16.70	Rear	WIFI1	98.8	0.180	1.012	24.1	23.9
2 412	1	802.11b	20	SUB4	1	16.70	Front	WIFI1	98.8	0.182	1.012	24.1	
2 412	1	802.11b	20	SUB4	1	16.70	Left	WIFI1	98.8	0.191	1.012	23.9	
2 412	1	802.11b	20	SUB4	1	16.70	Top	WIFI1	98.8	0.227	1.012	23.1	
2 412	1	802.11b	20	SUB6	1	17.58	Rear	WIFI2	98.8	0.088	1.012	28.1	26.3
2 412	1	802.11b	20	SUB6	1	17.58	Front	WIFI2	98.8	0.133	1.012	26.3	
2 412	1	802.11b	20	SUB6	1	17.58	Right	WIFI2	98.8	0.044	1.012	31.1	
2 412	1	802.11b	20	SUB6	1	17.58	Top	WIFI2	98.8	0.000632	1.012	47.6	
2 412	1	802.11b	20	S4+S6	1	16.70	Rear	MIMO	98.8	0.234	1.012	23.0	22.5
2 412	1	802.11b	20	S4+S6	1	16.70	Front	MIMO	98.8	0.240	1.012	22.9	
2 412	1	802.11b	20	S4+S6	1	16.70	Left	MIMO	98.8	0.210	1.012	23.5	
2 412	1	802.11b	20	S4+S6	1	16.70	Right	MIMO	98.8	0.054	1.012	29.4	
2 412	1	802.11b	20	S4+S6	1	16.70	Top	MIMO	98.8	0.265	1.012	22.5	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Rear	WIFI1	92.5	0.318	1.081	22.3	22.3
5 270	54	802.11n	40	SUB4	MCS0	17.31	Front	WIFI1	92.5	0.167	1.081	25.1	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Left	WIFI1	92.5	0.153	1.081	25.5	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Top	WIFI1	92.5	0.072	1.081	28.7	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Rear	WIFI2	92.5	0.264	1.081	23.5	23.5
5 270	54	802.11n	40	SUB1	MCS0	17.72	Front	WIFI2	92.5	0.057	1.081	30.2	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Right	WIFI2	92.5	0.072	1.081	29.1	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Top	WIFI2	92.5	0.060	1.081	29.9	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Rear	MIMO	92.5	0.366	1.081	21.6	21.6
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Front	MIMO	92.5	0.178	1.081	24.8	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Left	MIMO	92.5	0.350	1.081	21.8	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Right	MIMO	92.5	0.062	1.081	29.4	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Top	MIMO	92.5	0.079	1.081	28.3	
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Rear	WIFI1	92.1	0.334	1.086	22.1	22.1
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Front	WIFI1	92.1	0.124	1.086	26.4	
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Left	WIFI1	92.1	0.188	1.086	24.6	
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Top	WIFI1	92.1	0.055	1.086	29.9	
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Rear	WIFI2	92.1	0.417	1.086	21.7	21.7
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Front	WIFI2	92.1	0.035	1.086	32.4	
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Right	WIFI2	92.1	0.161	1.086	25.8	
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Top	WIFI2	92.1	0.099	1.086	27.9	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Rear	MIMO	92.1	0.114	1.086	26.5	20.3
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Front	MIMO	92.1	0.066	1.086	28.9	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Left	MIMO	92.1	0.475	1.086	20.3	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Right	MIMO	92.1	0.074	1.086	28.4	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Top	MIMO	92.1	0.249	1.086	23.1	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas.	Scaling	Plimit	Minimum
MHz	Ch.									SAR(1g)	Factor		Plimit
			(MHz)		(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Rear	WIFI1	92.1	0.430	1.086	25.2	25.2
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Front	WIFI1	92.1	0.143	1.086	30.0	
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Left	WIFI1	92.1	0.415	1.086	25.4	
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Top	WIFI1	92.1	0.088	1.086	32.1	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Rear	WIFI2	92.1	0.244	1.086	23.7	23.7
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Front	WIFI2	92.1	0.031	1.086	32.7	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Right	WIFI2	92.1	0.038	1.086	31.8	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Top	WIFI2	92.1	0.075	1.086	28.9	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Rear	MIMO	92.1	0.476	1.086	20.5	20.5
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Front	MIMO	92.1	0.180	1.086	24.7	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Left	MIMO	92.1	0.433	1.086	20.9	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Right	MIMO	92.1	0.042	1.086	31.0	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Top	MIMO	92.1	0.180	1.086	24.7	21.0
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Rear	WIFI1	92.1	0.429	1.086	21.0	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Front	WIFI1	92.1	0.232	1.086	23.7	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Left	WIFI1	92.1	0.121	1.086	26.5	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Top	WIFI1	92.1	0.041	1.086	31.2	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Rear	WIFI2	92.1	0.262	1.086	23.0	23.0
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Front	WIFI2	92.1	0.055	1.086	29.8	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Right	WIFI2	92.1	0.060	1.086	29.4	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Top	WIFI2	92.1	0.059	1.086	29.5	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Rear	MIMO	92.1	0.554	1.086	19.7	19.7
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Front	MIMO	92.1	0.326	1.086	22.0	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Left	MIMO	92.1	0.519	1.086	20.0	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Right	MIMO	92.1	0.076	1.086	28.3	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Top	MIMO	92.1	0.193	1.086	24.3	20.2
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Rear	WIFI1	99.7	0.037	1.003	23.3	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Front	WIFI1	99.7	0.018	1.003	26.5	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Left	WIFI1	99.7	0.076	1.003	20.2	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Top	WIFI1	99.7	0.017	1.003	26.7	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Rear	WIFI2	99.7	0.039	1.003	23.6	23.6
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Front	WIFI2	99.7	0.004	1.003	33.4	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Right	WIFI2	99.7	0.005	1.003	32.5	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Top	WIFI2	99.7	0.015	1.003	27.7	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Rear	MIMO	99.7	0.048	1.003	22.2	21.2
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Front	MIMO	99.7	0.016	1.003	27.0	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Left	MIMO	99.7	0.060	1.003	21.2	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Right	MIMO	99.7	0.005	1.003	32.0	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Top	MIMO	99.7	0.001	1.003	39.0	

MEASUREMENT RESULTS

Frequency		Mode/ Band	Ant. No.	Frame Averaged Conducted Power	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.			(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2 441	39	DH5	SUB4	17.58	Rear	WIFI1	0.169	1.030	25.3	22.4
2 441	39	DH5	SUB4	17.58	Front	WIFI1	0.083	1.030	28.4	
2 441	39	DH5	SUB4	17.58	Left	WIFI1	0.328	1.030	22.4	
2 441	39	DH5	SUB4	17.58	Top	WIFI1	0.125	1.030	26.6	
2 441	39	DH5	SUB6	17.85	Rear	WIFI2	0.070	1.030	29.4	25.3
2 441	39	DH5	SUB6	17.85	Front	WIFI2	0.180	1.030	25.3	
2 441	39	DH5	SUB6	17.85	Right	WIFI2	0.044	1.030	31.4	
2 441	39	DH5	SUB6	17.85	Top	WIFI2	0.00178	1.030	44.8	

Table A-13 DSI = 0 *P*_{Limit} Calculations – 2G/3G Phablet SAR

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

MEASUREMENT RESULTS											
Frequency		Mode/ Band		Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
					(dBm)				(W/kg)	(dBm)	(dBm)
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Rear	0	1:4.15	1.470	28.0	28.0
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Front	0	1:4.15	1.000	29.7	
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Left	0	1:4.15	0.495	32.8	
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Right	0	1:4.15	0.089	40.2	
824.2	128	GSM 850 Lower	GPRS2Tx	MAIN1	25.74	Bottom	0	1:4.15	0.409	33.6	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Rear	0	1:4.15	0.61	31.7	29.8
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Front	0	1:4.15	0.599	31.8	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Right	0	1:4.15	0.483	32.8	
824.2	128	GSM 850 Upper	GPRS2Tx	SUB1	25.62	Top	0	1:4.15	0.957	29.8	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Rear	0	1:4.15	0.715	25.2	25.2
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Front	0	1:4.15	0.477	27.0	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Left	0	1:4.15	0.196	30.8	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Right	0	1:4.15	0.047	37.0	
1880.0	661	GSM 1900	GPRS3Tx	MAIN1	19.45	Bottom	0	1:4.15	0.431	27.4	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Rear	0	1:1	0.854	28.5	28.5
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Front	0	1:1	0.413	31.7	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Left	0	1:1	0.136	36.5	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Right	0	1:1	0.038	42.0	
836.5	4183	UMTS Band 5 Lower	RMC	MAIN1	23.84	Bottom	0	1:1	0.477	31.0	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Back	0	1:1	0.751	28.8	26.3
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Front	0	1:1	1.100	27.2	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Left	0	1:1	0.066	39.4	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Right	0	1:1	0.793	28.6	
836.5	4183	UMTS Band 5 Upper	RMC	SUB1	23.62	Top	0	1:1	1.360	26.3	

Table A-14 DSI = 0 P_{Limit} Calculations – 4G Phablet SAR

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

MEASUREMENT RESULTS														
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB	RB	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
Mhz	Ch.			Mhz	(dBm)			(dB)	Size	offset		(W/kg)	(dBm)	(dBm)
1860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Rear	0	0	1	0	1:1	1.040	23.1	23.1
1860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Front	0	0	1	0	1:1	0.664	25.0	
1860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Left	0	0	1	0	1:1	0.110	32.8	
1860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Right	0	0	1	0	1:1	0.034	37.9	
1860	18700	LTE Band 2 Lower	MAIN1	20	19.27	Bottom	0	0	1	0	1:1	0.782	24.3	
1720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Rear	0	0	1	99	1:1	1.130	23.1	23.1
1720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Front	0	0	1	99	1:1	0.985	23.7	
1720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Left	0	0	1	99	1:1	0.469	26.9	
1720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Right	0	0	1	99	1:1	0.062	35.7	
1720	132072	LTE Band 66 Lower	MAIN1	20	19.64	Bottom	0	0	1	99	1:1	0.765	24.8	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Rear	0	0	1	0	1:1	0.578	29.3	29.3
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Front	0	0	1	0	1:1	0.301	32.1	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Left	0	0	1	0	1:1	0.199	33.9	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Right	0	0	1	0	1:1	0.037	41.2	
707.5	23095	LTE Band 12 Lower	MAIN1	10	22.89	Bottom	0	0	1	0	1:1	0.357	31.3	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Rear	0	0	1	24	1:1	0.804	28.1	25.7
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Front	0	0	1	24	1:1	1.400	25.7	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Left	0	0	1	24	1:1	0.051	40.1	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Right	0	0	1	24	1:1	0.816	28.0	
707.5	23095	LTE Band 12 Upper	SUB1	10	23.18	Top	0	0	1	24	1:1	1.390	25.7	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Rear	0	0	1	49	1:1	0.749	28.0	28.0
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Front	0	0	1	49	1:1	0.374	31.1	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Left	0	0	1	49	1:1	0.419	30.6	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Right	0	0	1	49	1:1	0.023	43.2	
782	23230	LTE Band 13 Lower	MAIN1	10	22.80	Bottom	0	0	1	49	1:1	0.160	34.7	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Rear	0	0	1	24	1:1	0.635	28.8	26.8
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Front	0	0	1	24	1:1	0.881	27.4	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Left	0	0	1	24	1:1	0.71	28.3	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Right	0	0	1	24	1:1	0.059	39.1	
782	23230	LTE Band 13 Upper	SUB1	10	22.83	Top	0	0	1	24	1:1	1.000	26.8	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Rear	0	0	1	36	1:1	1.07	27.9	27.9
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Front	0	0	1	36	1:1	0.750	29.4	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Left	0	0	1	36	1:1	0.642	30.1	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Right	0	0	1	36	1:1	0.131	37.0	
831.5	26865	LTE Band 26 Lower	MAIN1	15	24.22	Bottom	0	0	1	36	1:1	0.712	29.7	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Rear	0	0	1	36	1:1	0.714	29.6	26.9
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Front	0	0	1	36	1:1	1.320	26.9	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Left	0	0	1	36	1:1	0.069	39.8	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Right	0	0	1	36	1:1	0.827	29.0	
831.5	26865	LTE Band 26 Lower	SUB1	15	24.17	Top	0	0	1	36	1:1	1.050	27.9	

MEASUREMENT RESULTS

Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB	RB	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.			MHz	(dBm)			(dB)	Size	offset		(W/kg)	(dBm)	(dBm)
2 592.99	40620	LTE Band 41 Lower	MAIN1	20	22.02	Back	0	0	1	0	1:1.58	2.440	22.1	22.1
2 592.99	40620	LTE Band 41 Lower	MAIN1	20	22.02	Front	0	0	1	0	1:1.58	1.490	24.3	
2 592.99	40620	LTE Band 41 Lower	MAIN1	20	22.02	Left	0	0	1	0	1:1.58	0.977	26.1	
2 592.99	40620	LTE Band 41 Lower	MAIN1	20	22.02	Bottom	0	0	1	0	1:1.58	1.810	23.4	
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Back	0	0	1	0	1:1.58	0.804	23.6	19.6
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Front	0	0	1	0	1:1.58	1.310	21.4	
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Left	0	0	1	0	1:1.58	0.173	30.2	
2 680	41490	LTE Band 41 Upper	MAIN1	20	18.62	Top	0	0	1	0	1:1.58	2.010	19.6	

Table A-15 DSI = 0 *PLimit* Calculations – NR Phablet SAR

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

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

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

MEASUREMENT RESULTS															
Frequency		Mode	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing	RB	RB	Duty	Meas. SAR(1g)	PLimit	Minimum
MHz	Ch.			MHz	(dBm)			(dB)	(mm)	Size	offset	Cycle	(W/kg)	(dBm)	PLimit (dBm)
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.100	27.3	27.1
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.170	27.1	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.787	28.8	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.027	43.4	
836.5	167300	NR Band n5 Lower	MAIN1	20	23.78	Bottom	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.751	29.0	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.820	28.5	25.5
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.630	25.5	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.072	39.1	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Right	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.871	28.3	
836.5	167300	NR Band n5 Upper	SUB1	20	23.69	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	1.660	25.5	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Rear	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.280	24.4	23.6
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.380	24.0	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.938	25.7	
2 592.99	518598	NR Band 41 Lower	MAIN2	100	21.45	Top	DFT-s-OFDM QPSK	0	0	1	271	1:1	1.530	23.6	
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Rear	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.905	24.7	20.8
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Front	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.761	25.4	
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Left	DFT-s-OFDM QPSK	0	0	1	271	1:1	0.136	32.9	
2 592.99	518598	NR Band 41 Upper	SUB2	100	20.28	Top	DFT-s-OFDM QPSK	0	0	1	271	1:1	2.240	20.8	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Rear	DFT-s-OFDM QPSK	0	0	1	108	1:1	1.120	22.7	22.7
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Front	DFT-s-OFDM QPSK	0	0	1	108	1:1	0.864	23.9	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Left	DFT-s-OFDM QPSK	0	0	1	108	1:1	0.191	30.4	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Right	DFT-s-OFDM QPSK	0	0	1	108	1:1	0.118	32.5	
1 745	349000	NR Band 66 Lower	MAIN1	40	19.25	Bottom	DFT-s-OFDM QPSK	0	0	1	108	1:1	0.606	25.4	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Rear	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.487	28.3	25.3
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Front	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.614	27.3	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Left	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.386	29.3	
1 745	349000	NR Band 66 Upper	SUB2	40	21.23	Top	DFT-s-OFDM QPSK	0	0	1	1	1:1	0.988	25.3	

Table A-16 DSI = 0 P_{Limit} Calculations – WLAN Phablet SAR

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

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
2 412	1	802.11b	20	SUB4	1	16.70	Rear	WIFI1	98.8	0.871	1.012	21.3	21.1
2 412	1	802.11b	20	SUB4	1	16.70	Front	WIFI1	98.8	0.814	1.012	21.6	
2 412	1	802.11b	20	SUB4	1	16.70	Left	WIFI1	98.8	0.900	1.012	21.1	
2 412	1	802.11b	20	SUB4	1	16.70	Top	WIFI1	98.8	0.604	1.012	22.9	
2 412	1	802.11b	20	SUB6	1	17.58	Rear	WIFI2	98.8	0.531	1.012	24.3	22.4
2 412	1	802.11b	20	SUB6	1	17.58	Front	WIFI2	98.8	0.823	1.012	22.4	
2 412	1	802.11b	20	SUB6	1	17.58	Right	WIFI2	98.8	0.495	1.012	24.6	
2 412	1	802.11b	20	SUB6	1	17.58	Top	WIFI2	98.8	0.000	1.012	51.6	
2 412	1	802.11b	20	S4+S6	1	16.70	Rear	MIMO	98.8	0.893	1.012	21.2	20.8
2 412	1	802.11b	20	S4+S6	1	16.70	Front	MIMO	98.8	0.765	1.012	21.8	
2 412	1	802.11b	20	S4+S6	1	16.70	Left	MIMO	98.8	0.981	1.012	20.8	
2 412	1	802.11b	20	S4+S6	1	16.70	Right	MIMO	98.8	0.231	1.012	27.0	
2 412	1	802.11b	20	S4+S6	1	16.70	Top	MIMO	98.8	0.596	1.012	22.9	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Rear	WIFI1	92.5	0.666	1.081	23.1	19.6
5 270	54	802.11n	40	SUB4	MCS0	17.31	Front	WIFI1	92.5	0.662	1.081	23.1	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Left	WIFI1	92.5	1.480	1.081	19.6	
5 270	54	802.11n	40	SUB4	MCS0	17.31	Top	WIFI1	92.5	0.435	1.081	24.9	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Rear	WIFI2	92.5	0.683	1.081	23.4	23.3
5 270	54	802.11n	40	SUB1	MCS0	17.72	Front	WIFI2	92.5	0.693	1.081	23.3	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Right	WIFI2	92.5	0.310	1.081	26.8	
5 270	54	802.11n	40	SUB1	MCS0	17.72	Top	WIFI2	92.5	0.559	1.081	24.2	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Rear	MIMO	92.5	0.714	1.079	22.7	19.8
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Front	MIMO	92.5	0.880	1.079	21.8	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Left	MIMO	92.5	1.400	1.079	19.8	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Right	MIMO	92.5	0.117	1.079	30.6	
5 270	54	802.11n	40	S4+S1	MCS8	17.28	Top	MIMO	92.5	0.461	1.079	24.6	
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Rear	WIFI1	92.1	0.595	1.083	23.6	19.2
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Front	WIFI1	92.1	0.729	1.083	22.7	
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Left	WIFI1	92.1	1.620	1.083	19.2	
5 610	122	802.11ac	80	SUB4	MCS0	17.35	Top	WIFI1	92.1	0.280	1.083	26.9	
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Rear	WIFI2	92.1	0.630	1.083	23.9	23.9
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Front	WIFI2	92.1	0.180	1.083	29.3	
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Right	WIFI2	92.1	0.096	1.083	32.0	
5 610	122	802.11ac	80	SUB1	MCS0	17.87	Top	WIFI2	92.1	0.239	1.083	28.1	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Rear	MIMO	92.1	0.544	1.085	23.7	18.9
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Front	MIMO	92.1	0.662	1.085	22.9	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Left	MIMO	92.1	1.650	1.085	18.9	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Right	MIMO	92.1	0.086	1.085	31.7	
5 610	122	802.11ac	80	S4+S1	MCS0	17.10	Top	MIMO	92.1	0.211	1.085	27.8	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged Conducted Power	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.												
			(MHz)		(Mbps)	(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Rear	WIFI1	92.1	0.430	1.083	25.2	22.3
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Front	WIFI1	92.1	0.441	1.083	25.1	
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Left	WIFI1	92.1	0.834	1.083	22.3	
5 775	155	802.11ac	80	SUB4	MCS0	17.56	Top	WIFI1	92.1	0.093	1.083	31.9	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Rear	WIFI2	92.1	0.177	1.083	29.1	29.1
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Front	WIFI2	92.1	0.035	1.083	36.1	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Right	WIFI2	92.1	0.033	1.083	36.4	
5 775	155	802.11ac	80	SUB1	MCS0	17.61	Top	WIFI2	92.1	0.067	1.083	33.3	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Rear	MIMO	92.1	1.180	1.085	20.5	17.5
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Front	MIMO	92.1	1.000	1.085	21.3	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Left	MIMO	92.1	2.390	1.085	17.5	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Right	MIMO	92.1	0.131	1.085	30.1	
5 775	155	802.11ac	80	S4+S1	MCS0	17.28	Top	MIMO	92.1	0.325	1.085	26.1	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Rear	WIFI1	92.1	0.654	1.083	23.2	18.6
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Front	WIFI1	92.1	0.781	1.083	22.4	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Left	WIFI1	92.1	1.880	1.083	18.6	
5 855	171	802.11ac	80	SUB4	MCS0	17.33	Top	WIFI1	92.1	0.429	1.083	25.0	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Rear	WIFI2	92.1	0.547	1.083	23.8	23.8
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Front	WIFI2	92.1	0.163	1.083	29.0	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Right	WIFI2	92.1	0.109	1.083	30.8	
5 855	171	802.11ac	80	SUB1	MCS0	17.16	Top	WIFI2	92.1	0.197	1.083	28.2	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Rear	MIMO	92.1	0.689	1.085	22.7	18.3
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Front	MIMO	92.1	0.592	1.085	23.4	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Left	MIMO	92.1	1.900	1.085	18.3	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Right	MIMO	92.1	0.145	1.085	29.5	
5 855	171	802.11ac	80	S4+S1	MCS0	17.11	Top	MIMO	92.1	0.399	1.085	25.1	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Rear	WIFI1	99.7	0.064	1.003	24.9	21.2
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Front	WIFI1	99.7	0.063	1.003	25.0	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Left	WIFI1	99.7	0.153	1.003	21.2	
6 985	207	802.11ax	160	SUB4	MCS0	9.02	Top	WIFI1	99.7	0.015	1.003	31.2	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Rear	WIFI2	99.7	0.057	1.003	25.9	25.9
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Front	WIFI2	99.7	0.035	1.003	28.0	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Right	WIFI2	99.7	0.018	1.003	30.9	
6 985	207	802.11ax	160	SUB1	MCS0	9.47	Top	WIFI2	99.7	0.007	1.003	35.0	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Rear	MIMO	99.7	0.065	1.003	24.9	20.8
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Front	MIMO	99.7	0.072	1.003	24.4	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Left	MIMO	99.7	0.167	1.003	20.8	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Right	MIMO	99.7	0.005	1.003	36.0	
6 985	207	802.11ax	160	S4+S1	MCS0	9.02	Top	MIMO	99.7	0.016	1.003	31.0	

MEASUREMENT RESULTS

Frequency		Mode/ Band	Ant. No.	Frame Averaged Conducted Power	Test Position	Ant. Config.	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.			(dBm)			(W/kg)	(Duty)	(dBm)	(dBm)
2 441	39	DH5	SUB4	17.58	Rear	WIFI1	0.748	1.030	22.8	22.7
2 441	39	DH5	SUB4	17.58	Front	WIFI1	0.695	1.030	23.1	
2 441	39	DH5	SUB4	17.58	Left	WIFI1	0.764	1.030	22.7	
2 441	39	DH5	SUB4	17.58	Top	WIFI1	0.152	1.030	29.7	
2 441	39	DH5	SUB6	17.85	Rear	WIFI2	0.425	1.030	25.5	23.3
2 441	39	DH5	SUB6	17.85	Front	WIFI2	0.706	1.030	23.3	
2 441	39	DH5	SUB6	17.85	Right	WIFI2	0.225	1.030	28.3	
2 441	39	DH5	SUB6	17.85	Top	WIFI2	0.016	1.030	39.8	