

TEST REPORT

FCC SAR Part 0 Test for SC-55F
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-SR-2506-FC005

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Tested by
Chan Min Ko



Technical Manager
Yun Jeang Heo



HCT CO., LTD.
Bongjai Huh
BongJai Huh / CEO

**HCT CO.,LTD.**

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383

KOREA

Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT

PART 0 SAR Test
for certification**REPORT NO.****HCT-SR-2506-FC005****DATE OF ISSUE****Jun. 12, 2025****FCC ID****A3LSMF766JPN****Applicant****SAMSUNG Electronics Co., Ltd****129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea****Product Name****Mobile Phone****Model Name****SC-55F****Multi Model Name****SCG35****Date of Test****May 08, 2025 ~ Jun 10, 2025****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**

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	Jun. 12, 2025	Initial Release

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-55F
Multi Model Name	SCG35
Equipment Type	Mobile Phone
FCC ID	A3LSMF766JPN
Application Type	Certification
Applicant	SAMSUNG Electronics Co., Ltd.

2. DEVICE UNDER TEST DESCRIPTION

Device Wireless specification overview		
Band & Mode	Operating Mode	Tx Frequency
GSM850	Voice / Data	824.2 MHz ~ 848.8 MHz
GSM1900	Voice / Data	1 850.2 MHz ~ 1 909.8 MHz
UMTS Band 5	Voice / Data	826.4 MHz ~ 846.6 MHz
LTE FDD Band 2 (PCS)	Voice / Data	1 850.7 MHz ~ 1 909.3 MHz
LTE FDD Band 4 (AWS)	Voice / Data	1 710.7 MHz ~ 1 754.3 MHz
LTE FDD Band 5 (Cell)	Voice / Data	824.7 MHz ~ 848.3 MHz
LTE FDD Band 12	Voice / Data	699.7 MHz ~ 715.3 MHz
LTE FDD Band 13	Voice / Data	779.5 MHz ~ 784.5 MHz
LTE TDD Band 41	Voice / Data	2 498.5 MHz ~ 2 687.5 MHz
LTE FDD Band 66 (AWS)	Voice / Data	1 710.7 MHz ~ 1 779.3 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	1 712.5 MHz ~ 1 777.5 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	5 935 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

2.1 Time-Averaging for SAR

This WWAN Mode of DUT is equipped with an S.LSI chipset to which the Samsung S.LSI proprietary TAS (Time Average SAR) algorithm is applied. and also This equipment contains the Qualcomm modem supporting WLAN Fast connect TAS operations.

The Samsung S.LSI proprietary TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target or PD_design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio and WLAN for each characterized technology and bands.)

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

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

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

Only the BT, NFC mode of the device did not apply the time averaged SAR algorithm.

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

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

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

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in SAR report for WWAN.

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 in A3LSMF766JPN_SAR Part 2 Report_Main report.

The validation of The Qualcomm Fast connect TAS algorithm and compliance under the time- varying transmission scenario for WLAN technologies are reported in A3LSMF766JPN_SAR Part 2 Report_WLAN report.

2.3 Nomenclature for Part 0 Report

Technology	Term	Description
2G/3G/4G/5G Sub6NR/ WLAN	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties
	Pmax	Maximum tune up output power
	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties.
	SAR Char	Table containing Plimit for all technologies and bands

3. SAR MEASUREMENTS

3.1 SAR Definition

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

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

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.

Frequency	Maximum Area Scan Resolution(mm) (Δxarea, Δyarea)	Maximum Zoom Scan Resolution (mm) (Δxzoom, Δyzoom)	Maximum Zoom Scan Spatial			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid Δzzoom(n)	Graded Grid		
				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

Table 3-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

4. SAR CHARACTERIZATION

4.1 Exposure Index and SAR Determination

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

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

The Radio State indicator (RSI) conditions used in Table 4-1 represent different exposure scenarios.

Table 4-1 RSI and Corresponding Exposure Scenarios for WWAN Mode

Scenario	Description	SAR Test Cases
Head (RSI = 1)	Device positioned next to head	Head SAR per KDB Publication 648474 D04
Flip Open Body (RSI = 0)	Device Flip open Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474D04
Flip Open Body (RSI = 2)	Device Flip open Device transmits in hotspot mode near body Extremity SAR	Hotspot SAR per KDB Publication 941225 D06 Phablet SAR per KDB Publication 648474 D04
Flip Close Body (RSI = 3)	Device Flip close Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474D04
Flip Close Body (RSI = 4)	Device Flip close Device transmits in hotspot mode near body	Hotspot SAR per KDB Publication 941225 D06

Table 4-2 DSI and Corresponding Exposure Scenarios for WLAN Mode

Device State Index (DSI)	Description	SAR Test Cases
Head (DSI = 1)	Device positioned next to head	Head SAR per KDB Publication 648474 D04
Flip Open & Close Body (DSI = 0)	Device transmits in hotspot mode near body Device is held with hand	Hotspot SAR per KDB Publication 941225 D06 Phablet SAR per KDB Publication 648474 D04

4.2 SAR Design Target

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

<i>SAR_design_target</i>			
<i>SAR_design_target < SAR_regulatory_limit x 10^{Total Uncertainty/10}</i>			
Body 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 4-3 *WWAN SAR_design_target* Calculations

<i>SAR_design_target</i>			
<i>SAR_design_target < SAR_regulatory_limit x 10^{Total Uncertainty/10}</i>			
WLAN 1g SAR (W/kg)		10g SAR (W/kg)	
<i>Total Uncertainty</i>	1.0 dB	<i>Total Uncertainty</i>	1.0 dB
<i>SAR_regulatory_limit</i>	1.6 W/kg	<i>SAR_regulatory_limit</i>	4.0 W/kg
<i>SAR_design_target</i>	0.8 W/kg	<i>SAR_design_target</i>	2.0 W/kg

Table 4-4 *WLAN SAR_design_target* Calculations

4.3 SAR Characterization

SAR test results corresponding to Pmax for each antenna/technology/band/RSI can be found in Appendix A. Plimit is calculated by linearly scaling with the measured SAR at the Pmax to correspond to the SAR_design_target. Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in Table 4-5

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			Head (RCV ON)	Open Body (BodyWorn/ Hotspot)	Closed Body (BodyWorn/ Hotspot)	Maximum Tune-up Output Power (Frame Averaged Power) [dBm]
Averaging volume			1g	1g	1g	
separation Distance			0 mm	5 mm	5 mm	
Mode	Band	Antenna	RSI=1	RSI=0,2	RSI=3,4	
GSM/GPRS/EDGE	850	A	31.2	21.5	21.5	
GSM/GPRS/EDGE	850	E	18.7	19.5	19.5	24.4
GSM/GPRS/EDGE	1900	B	33.5	19.0	19.0	19.0
UMTS	5	A	23.9	23.0	23.0	25.0
UMTS	5	E	18.5	19.0	19.0	21.0
LTE	2	B	35.0	19.5	19.5	24.5
LTE	2	I	17.0	18.5	18.5	24.5
LTE	66(4)	B	38.2	19.5	19.5	25.2
LTE	66(4)	I	17.5	19.5	19.5	25.0
LTE	12	A	31.1	21.5	21.5	24.0
LTE	12	E	18.0	18.0	18.0	22.0
LTE	13	A	29.7	21.5	21.5	24.0
LTE	13	E	17.5	17.5	17.5	22.0
LTE	5	A	29.6	21.5	21.5	23.0
LTE	5	E	19.5	19.5	19.5	22.0
LTE	41(PC3)	B	37.1	19.5	19.5	22.5
LTE	41(PC3)	I	14.8	17.5	17.5	22.5
NR	n5	A	33.4	22.5	22.5	24.0
NR	n5	E	19.5	20.0	20.0	23.0
NR	n41	B	23.5	19.5	19.5	24.5
NR	n41	I	14.8	17.5	17.5	24.5
NR	n66	B	35.4	19.5	19.5	25.2
NR	n66	I	17.5	19.5	19.5	25.0

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			Head (RCV ON)	Open Body (BodyWorn/ Hotspot)	Closed Body (BodyWorn/ Hotspot)	Maximum Tune-up Output Power (Frame Average Power) [dBm]
Averaging volume			1g	1g	1g	
separation Distance			0 mm	5 mm	5 mm	
Mode	Band	Antenna	DSI=1	DSI=0,2	DSI=3,4	
WLAN	2.4 GHz	G	13.5	14.5	14.5	19.0
WLAN	2.4 GHz	H	13.5	14.5	14.5	19.0
WLAN	2.4 GHz	G+H	13.5	14.5	14.5	19.0
WLAN	5 GHz	F	10.5	15.0	15.0	17.0
WLAN	5 GHz	H	10.5	15.0	15.0	17.0
WLAN	5 GHz	F+H	10.5	15.0	15.0	17.0
WLAN	6 GHz	F	10.0	10.0	10.0	16.0
WLAN	6 GHz	H	10.0	10.0	10.0	16.0
WLAN	6 GHz	F+H	10.0	10.0	10.0	16.0
Bluetooth	2.4GHz	G	14.5	23.9	24.6	18.5
Bluetooth	2.4GHz	H	14.5	24.4	26.8	18.5
Bluetooth	2.4GHz	G+H	12.0	17.9	19.1	17.0

Table 4-5 SAR Characterization

Note

1. all Plimit and maximum tune up output power Pmax levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM, LTE TDD).
2. The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G WWAN and WLAN technology, band, and SAR Exposure condition=minimum of “Plimit” and “Maximum tune up output power: “Pmax” + 1dB device uncertainty.
3. The maximum time averaged output power means Plimit for each modes SAR values in this report were scaled to the maximum allowed output power to determine compliance per KDB Publication 447498 D01v06.
4. Bluetooth operate on the peak power mode.

5. Equipment List

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	SAM Phantom	-	N/A	N/A	N/A
SPEAG	ELI Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/ 5K3RA1/ C/ 01	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	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F08/5AJ0A1/C/01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60	F/20/0018446/C/001	N/A	N/A	N/A
Staubli	CS8Cspeag-TX60L	F10/5D1CA1/C/01	N/A	N/A	N/A
Staubli	TX90 Lspeag	F11/ 5K3RA1/ A/ 01	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	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F08/5AJ0A1/A/01	N/A	N/A	N/A
Staubli	TX60 Lspeag	F/20/0018446/A/001	N/A	N/A	N/A
Staubli	TX60 XLspeag	F10/5D1CA1/A/01	N/A	N/A	N/A
Staubli	D21142603	S-1203 0309	N/A	N/A	N/A
Staubli	D2114210603	S-1206 0513	N/A	N/A	N/A
Staubli	D21142605	S-1338 1332	N/A	N/A	N/A
Staubli	D21142606B	010963	N/A	N/A	N/A
Staubli	D21143300	S-0008	N/A	N/A	N/A
Staubli	D21142608A	020885	N/A	N/A	N/A
Staubli	D21142106	S-0123	N/A	N/A	N/A
TESTO	175-H1/Thermometer	40331936309	12/26/2024	Annual	12/26/2025
TESTO	175-H1/Thermometer	40331936309	12/26/2024	Annual	12/26/2025
TESTO	175-H1/Thermometer	40331953309	01/16/2025	Annual	01/16/2026
TESTO	175-H1/Thermometer	40331915309	12/25/2024	Annual	12/25/2025
TESTO	175-H1/Thermometer	40331949309	12/26/2024	Annual	12/26/2025
TESTO	175-H1/Thermometer	44606611906	03/20/2025	Annual	03/20/2026
TESTO	175-H1/Thermometer	44606559906	03/20/2025	Annual	03/20/2026
SPEAG	DAE4	1750	09/13/2024	Annual	09/13/2025
SPEAG	DAE4	1687	07/12/2024	Annual	07/12/2025
SPEAG	DAE4	869	03/19/2025	Annual	03/19/2026
SPEAG	DAE4	868	09/19/2024	Annual	09/19/2025
SPEAG	DAE4	1720	04/23/2025	Annual	04/23/2026
SPEAG	DAE4	780	06/19/2024	Annual	06/19/2025
SPEAG	E-Field Probe ES3DV3	3076	07/17/2024	Annual	07/17/2025
SPEAG	E-Field Probe EX3DV4	7679	08/22/2024	Annual	08/22/2025
SPEAG	E-Field Probe EX3DV4	7622	11/22/2024	Annual	11/22/2025
SPEAG	E-Field Probe EX3DV4	7732	06/19/2024	Annual	06/19/2025
SPEAG	E-Field Probe EX3DV4	7309	06/19/2024	Annual	06/19/2025
SPEAG	E-Field Probe EX3DV4	7702	01/21/2025	Annual	01/21/2026
SPEAG	E-Field Probe EUmWV4	9464	02/24/2025	Annual	02/24/2026
SPEAG	CLA13	1016	11/19/2024	Annual	11/19/2025
SPEAG	Dipole D750V3	1014	05/20/2024	Annual	05/20/2025
SPEAG	Dipole D835V2	4d165	04/14/2025	Annual	04/14/2026
SPEAG	Dipole D1800V2	2d015	04/17/2025	Annual	04/17/2026
SPEAG	Dipole D1900V2	5d061	01/20/2025	Annual	01/20/2026
SPEAG	Dipole D2450V2	1049	03/13/2025	Annual	03/13/2026
SPEAG	Dipole D2600V2	1106	04/15/2025	Annual	04/15/2026
SPEAG	Dipole D5GHzV2	1107	04/19/2024	Biennial	04/19/2026
SPEAG	Dipole D6.5GHzV2	1012	09/17/2024	Annual	09/17/2025

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	5G Power Verification Source 10GHz	1018	04/11/2025	Annual	04/11/2026
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 Meter N1911A	MY45101406	05/19/2025	Annual	05/19/2026
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	Power Meter E4419B	MY41291386	09/11/2024	Annual	09/11/2025
Agilent	Wideband Power Sensor N1921A	MY55220026	07/30/2024	Annual	07/30/2025
Agilent	11636B/Power Divider	58698	01/13/2025	Annual	01/13/2026
SPEAG	DAKS 3.5	1038	01/20/2025	Annual	01/20/2026
SPEAG	Vector Reflectometer	0141013	01/13/2025	Annual	01/13/2026
SPEAG	MXA Signal Analyzer	MY49100108	01/07/2025	Annual	01/07/2026
H.P	Network Analyzer /8753E	JP38451384	08/20/2024	Annual	08/20/2025
Protek	NETWORK ANALYZER	X11-15305	02/10/2025	Annual	02/10/2026
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	09/11/2024	Annual	09/11/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	07/29/2024	Annual	07/29/2025
R&S	Wireless Communication Test Set CMW500	115733	03/20/2025	Annual	03/20/2026
R&S	Wireless Communication Test Set CMW500	139333	12/09/2024	Annual	12/09/2025
Agilent	SIGNAL GENERATOR N5182A	MY47070230	03/18/2025	Annual	03/18/2026
Keysight	PSG Vector Signal Generator	MY50350097	03/05/2025	Annual	03/05/2026
EMPOWER	RF Power Amplifier	1084	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1084	05/20/2025	Annual	05/20/2026
EMPOWER	RF Power Amplifier	1041D/C0508	05/21/2024	Annual	05/21/2025
EMPOWER	RF Power Amplifier	1041D/C0508	05/20/2025	Annual	05/20/2026
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	08/21/2024	Annual	08/21/2025
Agilent	Directional Bridge 86205A	3140A04581	04/18/2025	Annual	04/18/2026
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/04/2024	Annual	06/04/2025
Agilent	MXA Signal Analyzer N9020A	MY50510407	06/09/2025	Annual	06/10/2026
Keysight	MXA Signal Analyzer N9020A	MY54500663	12/24/2024	Annual	12/24/2025
HP	Dual Directional Coupler	16072	09/11/2024	Annual	09/11/2025
Anritsu	Radio Communication Test Station MT8000A	6262036812	11/27/2024	Annual	11/27/2025
Anritsu	Radio Communication Test Station MT8000A	6262148305	12/23/2024	Annual	12/23/2025
Anritsu	Radio Communication Test Station MT8000A	6261967108	04/21/2025	Annual	04/21/2026
Anritsu	Radio Communication Tester MT8820C	6201074225	01/13/2025	Annual	01/13/2026
Anritsu	Radio Communication Tester MT8820C	6200695605	03/21/2025	Annual	03/21/2026
Anritsu	Radio Communication Tester MT8821C	6262044720	11/27/2024	Annual	11/27/2025
Anritsu	Radio Communication Tester MT8821C	6201664725	01/13/2025	Annual	01/13/2026
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/22/2024	Annual	05/22/2025
Agilent	WIRELESS COMMUNICATION E5515C	MY50260992	05/20/2025	Annual	05/20/2026
R&S	BLUETOOTH TESTER CBT	100272	01/13/2025	Annual	01/13/2026

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

6. Measurement Uncertainty

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

Appendix A: SAR Test Results For P limit CALCULATIONS

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

MEASUREMENT RESULTS									
Frequency		Mode/ Band	Ant.	Frame Averaged	Test Position	Duty Cycle	Meas.	Plimit	Minimum
MHz	Ch.			Conducted Power			SAR(1g)		Plimit
				(dBm)			(W/kg)	(dBm)	(dBm)
836.6	190	GSM 850	GPRS 4Tx	A	Left Cheek	1:2.07	0.107	33.8	31.2
836.6	190	GSM 850		A	Left Tilt	1:2.07	0.065	35.9	
836.6	190	GSM 850		A	Right Cheek	1:2.07	0.192	31.2	
836.6	190	GSM 850		A	Right Tilt	1:2.07	0.066	35.9	
836.6	190	GSM 850	GPRS 4Tx	E	Left Cheek	1:2.07	0.183	26.5	24.2
836.6	190	GSM 850		E	Left Tilt	1:2.07	0.065	31.0	
836.6	190	GSM 850		E	Right Cheek	1:2.07	0.309	24.2	
836.6	190	GSM 850		E	Right Tilt	1:2.07	0.117	28.4	
1 880	661	GSM 1900	GPRS 4Tx	B	Left Cheek	1:2.07	0.058	33.5	33.5
1 880	661	GSM 1900		B	Left Tilt	1:2.07	0.014	39.7	
1 880	661	GSM 1900		B	Right Cheek	1:2.07	0.045	34.6	
1 880	661	GSM 1900		B	Right Tilt	1:2.07	0.017	38.9	
836.6	4183	UMTS Band 5	RMC	A	Left Cheek	1:1	0.116	32.5	30.1
836.6	4183	UMTS Band 5	RMC	A	Left Tilt	1:1	0.067	34.9	
836.6	4183	UMTS Band 5	RMC	A	Right Cheek	1:1	0.202	30.1	
836.6	4183	UMTS Band 5	RMC	A	Right Tilt	1:1	0.087	33.8	
836.6	4183	UMTS Band 5	RMC	E	Left Cheek	1:1	0.222	25.3	22.1
836.6	4183	UMTS Band 5	RMC	E	Left Tilt	1:1	0.094	29.0	
836.6	4183	UMTS Band 5	RMC	E	Right Cheek	1:1	0.467	22.1	
836.6	4183	UMTS Band 5	RMC	E	Right Tilt	1:1	0.165	26.6	

Table A-2 RSI = 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.			(dBm)	(dBm)		(dB)				(W/kg)	(dBm)	(dBm)
836.5	20525	LTE Band 5	A	10	23.15	Left Cheek	0	1	24	1:1	0.115	32.5	29.6
836.5	20525	LTE Band 5	A	10	23.15	Left Tilt	0	1	24	1:1	0.073	34.5	
836.5	20525	LTE Band 5	A	10	23.15	Right Cheek	0	1	24	1:1	0.227	29.6	
836.5	20525	LTE Band 5	A	10	23.15	Right Tilt	0	1	24	1:1	0.093	33.5	
836.5	20525	LTE Band 5	E	10	18.92	Left Cheek	0	1	24	1:1	0.244	25.0	22.4
836.5	20525	LTE Band 5	E	10	18.92	Left Tilt	0	1	24	1:1	0.093	29.2	
836.5	20525	LTE Band 5	E	10	18.92	Right Cheek	0	1	24	1:1	0.444	22.4	
836.5	20525	LTE Band 5	E	10	18.92	Right Tilt	0	1	24	1:1	0.141	27.4	
707.5	23095	LTE Band 12	A	10	23.15	Left Cheek	0	1	24	1:1	0.134	31.9	31.1
707.5	23095	LTE Band 12	A	10	23.15	Left Tilt	0	1	24	1:1	0.080	34.1	
707.5	23095	LTE Band 12	A	10	23.15	Right Cheek	0	1	24	1:1	0.159	31.1	
707.5	23095	LTE Band 12	A	10	23.15	Right Tilt	0	1	24	1:1	0.081	34.1	
707.5	23095	LTE Band 12	E	10	18.04	Left Cheek	0	1	24	1:1	0.189	25.3	21.8
707.5	23095	LTE Band 12	E	10	18.04	Left Tilt	0	1	24	1:1	0.072	29.5	
707.5	23095	LTE Band 12	E	10	18.04	Right Cheek	0	1	24	1:1	0.422	21.8	
707.5	23095	LTE Band 12	E	10	18.04	Right Tilt	0	1	24	1:1	0.151	26.3	
782	23230	LTE Band 13	A	10	23.24	Left Cheek	0	1	24	1:1	0.131	32.1	29.7
782	23230	LTE Band 13	A	10	23.24	Left Tilt	0	1	24	1:1	0.099	33.3	
782	23230	LTE Band 13	A	10	23.24	Right Cheek	0	1	24	1:1	0.228	29.7	
782	23230	LTE Band 13	A	10	23.24	Right Tilt	0	1	24	1:1	0.114	32.7	
782	23230	LTE Band 13	E	10	17.31	Left Cheek	0	1	24	1:1	0.147	25.6	21.3
782	23230	LTE Band 13	E	10	17.31	Left Tilt	0	1	24	1:1	0.064	29.2	
782	23230	LTE Band 13	E	10	17.31	Right Cheek	0	1	24	1:1	0.396	21.3	
782	23230	LTE Band 13	E	10	17.31	Right Tilt	0	1	24	1:1	0.085	28.0	
2 680	41490	LTE Band 41(PC3)	B	20	22.26	Left Cheek	0	1	0	1:1	0.033	37.1	37.1
2 680	41490	LTE Band 41(PC3)	B	20	22.26	Left Tilt	0	1	0	1:1	0.005	45.3	
2 680	41490	LTE Band 41(PC3)	B	20	22.26	Right Cheek	0	1	0	1:1	0.031	37.4	
2 680	41490	LTE Band 41(PC3)	B	20	22.26	Right Tilt	0	1	0	1:1	0.014	40.8	
2 680	41490	LTE Band 41(PC3)	I	20	15.31	Left Cheek	0	1	0	1:1	0.682	17.0	17.0
2 680	41490	LTE Band 41(PC3)	I	20	15.31	Left Tilt	0	1	0	1:1	0.116	24.7	
2 680	41490	LTE Band 41(PC3)	I	20	15.31	Right Cheek	0	1	0	1:1	0.168	23.1	
2 680	41490	LTE Band 41(PC3)	I	20	15.31	Right Tilt	0	1	0	1:1	0.032	30.3	
1 770	132572	LTE Band 66	B	20	24.72	Left Cheek	0	1	99	1:1	0.043	38.4	38.2
1 770	132572	LTE Band 66	B	20	24.72	Left Tilt	0	1	99	1:1	0.022	41.3	
1 770	132572	LTE Band 66	B	20	24.72	Right Cheek	0	1	99	1:1	0.045	38.2	
1 770	132572	LTE Band 66	B	20	24.72	Right Tilt	0	1	99	1:1	0.013	43.6	
1 720	132072	LTE Band 66	I	20	18.26	Left Cheek	0	1	49	1:1	0.250	24.3	24.3
1 720	132072	LTE Band 66	I	20	18.26	Left Tilt	0	1	49	1:1	0.063	30.3	
1 720	132072	LTE Band 66	I	20	18.26	Right Cheek	0	1	49	1:1	0.058	30.6	
1 720	132072	LTE Band 66	I	20	18.26	Right Tilt	0	1	49	1:1	0.036	32.7	

Table A.3 RSI = 1 P_{Limit} Calculations – NR Head SAR

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

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

SAR measurements of all 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)	P _{limit}	Minimum P _{limit}
MHz	Ch.			(dBm)	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
836.5	167300	NR Band n5	A	20	23.69	Left Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.048	36.9	33.4
836.5	167300	NR Band n5	A	20	23.69	Left Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.026	39.5	
836.5	167300	NR Band n5	A	20	23.69	Right Cheek	DFT-s-OFDM QPSK	0	1	53	1:1	0.108	33.4	
836.5	167300	NR Band n5	A	20	23.69	Right Tilt	DFT-s-OFDM QPSK	0	1	53	1:1	0.032	38.6	
836.5	167300	NR Band n5	E	20	19.30	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.196	26.4	23.4
836.5	167300	NR Band n5	E	20	19.30	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.072	30.7	
836.5	167300	NR Band n5	E	20	19.30	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.392	23.4	
836.5	167300	NR Band n5	E	20	19.30	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.126	28.3	
2 592.99	518598	NR Band n41(PC3)	B	100	24.46	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.019	41.7	40.1
2 592.99	518598	NR Band n41(PC3)	B	100	24.46	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.004	48.4	
2 592.99	518598	NR Band n41(PC3)	B	100	24.46	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.027	40.1	
2 592.99	518598	NR Band n41(PC3)	B	100	24.46	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.007	46.0	
2 592.99	518598	NR Band n41(PC3)	I	100	15.79	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.521	18.6	18.6
2 592.99	518598	NR Band n41(PC3)	I	100	15.79	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.096	26.0	
2 592.99	518598	NR Band n41(PC3)	I	100	15.79	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.190	23.0	
2 592.99	518598	NR Band n41(PC3)	I	100	15.79	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.040	29.8	
1 745	349000	NR Band n66	B	40	25.57	Left Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.048	38.8	35.4
1 745	349000	NR Band n66	B	40	25.57	Left Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.032	40.5	
1 745	349000	NR Band n66	B	40	25.57	Right Cheek	DFT-s-OFDM QPSK	0	1	214	1:1	0.103	35.4	
1 745	349000	NR Band n66	B	40	25.57	Right Tilt	DFT-s-OFDM QPSK	0	1	214	1:1	0.012	44.8	
1 745	349000	NR Band n66	I	40	18.28	Left Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.204	25.2	25.2
1 745	349000	NR Band n66	I	40	18.28	Left Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.040	32.3	
1 745	349000	NR Band n66	I	40	18.28	Right Cheek	DFT-s-OFDM QPSK	0	1	1	1:1	0.047	31.6	
1 745	349000	NR Band n66	I	40	18.28	Right Tilt	DFT-s-OFDM QPSK	0	1	1	1:1	0.022	34.9	

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

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas.	Scaling	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	Conducted Power				SAR(1g)	Factor	(dBm)	(dBm)
2 462	11	802.11b	20	G	1	14.47	Left Cheek	WIFI1	98.8	0.172	1.011	22.1	19.6
2 462	11	802.11b	20	G	1	14.47	Left Tilt	WIFI1	98.8	0.246	1.011	20.6	
2 462	11	802.11b	20	G	1	14.47	Right Cheek	WIFI1	98.8	0.308	1.011	19.6	
2 462	11	802.11b	20	G	1	14.47	Right Tilt	WIFI1	98.8	0.301	1.011	19.7	
2 462	11	802.11b	20	H	1	12.87	Left Cheek	WIFI2	98.8	0.165	1.011	20.7	20.7
2 462	11	802.11b	20	H	1	12.87	Left Tilt	WIFI2	98.8	0.109	1.011	22.5	
2 462	11	802.11b	20	H	1	12.87	Right Cheek	WIFI2	98.8	0.043	1.011	26.5	
2 462	11	802.11b	20	H	1	12.87	Right Tilt	WIFI2	98.8	0.037	1.011	27.2	
2 462	11	802.11b	20	G+H	1	12.87	Left Cheek	MIMO	98.8	0.262	1.011	18.7	17.2
2 462	11	802.11b	20	G+H	1	12.87	Left Tilt	MIMO	98.8	0.368	1.011	17.2	
2 462	11	802.11b	20	G+H	1	12.87	Right Cheek	MIMO	98.8	0.294	1.011	18.2	
2 462	11	802.11b	20	G+H	1	12.87	Right Tilt	MIMO	98.8	0.314	1.011	17.9	
5 290	58	802.11ac	80	F	MCS0	11.24	Left Cheek	WIFI1	85.9	0.027	1.163	26.9	20.9
5 290	58	802.11ac	80	F	MCS0	11.24	Left Tilt	WIFI1	85.9	0.025	1.163	27.3	
5 290	58	802.11ac	80	F	MCS0	11.24	Right Cheek	WIFI1	85.9	0.108	1.163	20.9	
5 290	58	802.11ac	80	F	MCS0	11.24	Right Tilt	WIFI1	85.9	0.074	1.163	22.5	
5 610	122	802.11ac	80	F	MCS0	11.49	Left Cheek	WIFI1	85.9	0.030	1.163	26.7	21.3
5 610	122	802.11ac	80	F	MCS0	11.49	Left Tilt	WIFI1	85.9	0.018	1.163	28.9	
5 610	122	802.11ac	80	F	MCS0	11.49	Right Cheek	WIFI1	85.9	0.105	1.163	21.3	
5 610	122	802.11ac	80	F	MCS0	11.49	Right Tilt	WIFI1	85.9	0.048	1.163	24.7	
5 775	155	802.11ac	80	F	MCS0	11.42	Left Cheek	WIFI1	85.9	0.000	1.163	N/A	16.4
5 775	155	802.11ac	80	F	MCS0	11.42	Left Tilt	WIFI1	85.9	0.000	1.163	N/A	
5 775	155	802.11ac	80	F	MCS0	11.42	Right Cheek	WIFI1	85.9	0.101	1.163	21.4	
5 775	155	802.11ac	80	F	MCS0	11.42	Right Tilt	WIFI1	85.9	0.320	1.163	16.4	
5 855	171	802.11ac	80	F	MCS0	11.48	Left Cheek	WIFI1	85.9	0.000	1.163	N/A	25.0
5 855	171	802.11ac	80	F	MCS0	11.48	Left Tilt	WIFI1	85.9	0.000	1.163	N/A	
5 855	171	802.11ac	80	F	MCS0	11.48	Right Cheek	WIFI1	85.9	0.044	1.163	25.0	
5 855	171	802.11ac	80	F	MCS0	11.48	Right Tilt	WIFI1	85.9	0.026	1.163	27.3	
5 290	58	802.11ac	80	H	MCS0	10.74	Left Cheek	WIFI2	85.9	0.089	1.163	21.2	21.2
5 290	58	802.11ac	80	H	MCS0	10.74	Left Tilt	WIFI2	85.9	0.086	1.163	21.4	
5 290	58	802.11ac	80	H	MCS0	10.74	Right Cheek	WIFI2	85.9	0.038	1.163	24.9	
5 290	58	802.11ac	80	H	MCS0	10.74	Right Tilt	WIFI2	85.9	0.043	1.163	24.4	
5 610	122	802.11ac	80	H	MCS0	11.44	Left Cheek	WIFI2	85.9	0.167	1.163	19.2	19.2
5 610	122	802.11ac	80	H	MCS0	11.44	Left Tilt	WIFI2	85.9	0.128	1.163	20.4	
5 610	122	802.11ac	80	H	MCS0	11.44	Right Cheek	WIFI2	85.9	0.076	1.163	22.6	
5 610	122	802.11ac	80	H	MCS0	11.44	Right Tilt	WIFI2	85.9	0.073	1.163	22.8	
5 775	155	802.11ac	80	H	MCS0	11.02	Left Cheek	WIFI2	85.9	0.109	1.163	20.6	19.8
5 775	155	802.11ac	80	H	MCS0	11.02	Left Tilt	WIFI2	85.9	0.132	1.163	19.8	
5 775	155	802.11ac	80	H	MCS0	11.02	Right Cheek	WIFI2	85.9	0.070	1.163	22.6	
5 775	155	802.11ac	80	H	MCS0	11.02	Right Tilt	WIFI2	85.9	0.078	1.163	22.1	

MEASUREMENT RESULTS													
Frequency		Mode/ Band	Band width	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas.	Scaling	Plimit	Minimum Plimit
MHz	Ch.				(Mbps)	Conducted Power				(W/kg)	(Duty)		
		(MHz)				(dBm)						(dBm)	(dBm)
5 855	171	802.11ac	80	H	MCS0	11.23	Left Cheek	WIFI2	85.9	0.157	1.163	19.3	19.3
5 855	171	802.11ac	80	H	MCS0	11.23	Left Tilt	WIFI2	85.9	0.142	1.163	19.7	
5 855	171	802.11ac	80	H	MCS0	11.23	Right Cheek	WIFI2	85.9	0.069	1.163	22.8	
5 855	171	802.11ac	80	H	MCS0	11.23	Right Tilt	WIFI2	85.9	0.071	1.163	22.7	
5 290	58	802.11ac	80	F+H	MCS0	10.74	Left Cheek	MIMO	85.9	0.049	1.163	23.8	18.8
5 290	58	802.11ac	80	F+H	MCS0	10.74	Left Tilt	MIMO	85.9	0.069	1.163	22.4	
5 290	58	802.11ac	80	F+H	MCS0	10.74	Right Cheek	MIMO	85.9	0.156	1.163	18.8	
5 290	58	802.11ac	80	F+H	MCS0	10.74	Right Tilt	MIMO	85.9	0.095	1.163	21.0	
5 610	122	802.11ac	80	F+H	MCS0	11.44	Left Cheek	MIMO	85.9	0.117	1.163	20.8	20.3
5 610	122	802.11ac	80	F+H	MCS0	11.44	Left Tilt	MIMO	85.9	0.129	1.163	20.3	
5 610	122	802.11ac	80	F+H	MCS0	11.44	Right Cheek	MIMO	85.9	0.087	1.163	22.0	
5 610	122	802.11ac	80	F+H	MCS0	11.44	Right Tilt	MIMO	85.9	0.047	1.163	24.7	
5 775	155	802.11ac	80	F+H	MCS0	11.02	Left Cheek	MIMO	85.9	0.057	1.163	23.5	19.8
5 775	155	802.11ac	80	F+H	MCS0	11.02	Left Tilt	MIMO	85.9	0.132	1.163	19.8	
5 775	155	802.11ac	80	F+H	MCS0	11.02	Right Cheek	MIMO	85.9	0.109	1.163	20.6	
5 775	155	802.11ac	80	F+H	MCS0	11.02	Right Tilt	MIMO	85.9	0.081	1.163	21.9	
5 855	171	802.11ac	80	F+H	MCS0	11.23	Left Cheek	MIMO	85.9	0.172	1.163	18.9	18.7
5 855	171	802.11ac	80	F+H	MCS0	11.23	Left Tilt	MIMO	85.9	0.178	1.163	18.7	
5 855	171	802.11ac	80	F+H	MCS0	11.23	Right Cheek	MIMO	85.9	0.065	1.163	23.1	
5 855	171	802.11ac	80	F+H	MCS0	11.23	Right Tilt	MIMO	85.9	0.066	1.163	23.0	
6 165	43	802.11ax	40	F	MCS0	10.69	Left Cheek	WIFI1	99.6	0.039	1.004	24.8	22.6
6 165	43	802.11ax	40	F	MCS0	10.69	Left Tilt	WIFI1	99.6	0.046	1.004	24.1	
6 165	43	802.11ax	40	F	MCS0	10.69	Right Cheek	WIFI1	99.6	0.065	1.004	22.6	
6 165	43	802.11ax	40	F	MCS0	10.69	Right Tilt	WIFI1	99.6	0.047	1.004	24.0	
6 525	115	802.11ax	40	H	MCS0	10.75	Left Cheek	WIFI2	99.6	0.058	1.004	23.1	23.1
6 525	115	802.11ax	40	H	MCS0	10.75	Left Tilt	WIFI2	99.6	0.055	1.004	23.3	
6 525	115	802.11ax	40	H	MCS0	10.75	Right Cheek	WIFI2	99.6	0.020	1.004	27.7	
6 525	115	802.11ax	40	H	MCS0	10.75	Right Tilt	WIFI2	99.6	0.015	1.004	29.0	
6 165	43	802.11ax	40	F+H	MCS0	10.69	Left Cheek	MIMO	99.6	0.097	1.004	20.8	20.6
6 165	43	802.11ax	40	F+H	MCS0	10.69	Left Tilt	MIMO	99.6	0.101	1.004	20.6	
6 165	43	802.11ax	40	F+H	MCS0	10.69	Right Cheek	MIMO	99.6	0.085	1.004	21.4	
6 165	43	802.11ax	40	F+H	MCS0	10.69	Right Tilt	MIMO	99.6	0.062	1.004	22.8	

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)
2 480	78	DH5	G	14.84	Left Cheek	Bluetooth1	0.097	1.013	25.0	20.5
2 480	78	DH5	G	14.84	Left Tilt	Bluetooth1	0.133	1.013	23.6	
2 480	78	DH5	G	14.84	Right Cheek	Bluetooth1	0.230	1.013	21.2	
2 480	78	DH5	G	14.84	Right Tilt	Bluetooth1	0.272	1.013	20.5	
2 441	39	DH5	H	13.87	Left Cheek	Bluetooth2	0.234	1.013	20.2	20.2
2 441	39	DH5	H	13.87	Left Tilt	Bluetooth2	0.146	1.013	22.2	
2 441	39	DH5	H	13.87	Right Cheek	Bluetooth2	0.071	1.013	25.4	
2 441	39	DH5	H	13.87	Right Tilt	Bluetooth2	0.056	1.013	26.4	
2 441	39	DH5	G+H	12.26	Left Cheek	Dual	0.125	1.013	21.3	20.9
2 441	39	DH5	G+H	12.26	Left Tilt	Dual	0.137	1.013	20.9	
2 441	39	DH5	G+H	12.26	Right Cheek	Dual	0.134	1.013	21.0	
2 441	39	DH5	G+H	12.26	Right Tilt	Dual	0.138	1.013	20.9	

Table A-5 RSI = 0,3 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		Form Factor	Ant. No.	Frame Averaged Conducted Power	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
MHz	Ch.					(dBm)				(W/kg)		
836.6	190	GSM 850	4TX	Open	A	20.68	Rear	5	1:2.07	0.561	23.2	23.2
836.6	190	GSM 850	4TX	Open	A	20.68	Front	5	1:2.07	0.374	25.0	
836.6	190	GSM 850	4TX	Close	A	20.68	Rear	5	1:2.07	0.311	25.8	
836.6	190	GSM 850	4TX	Close	A	20.68	Front	5	1:2.07	0.027	36.4	
836.6	190	GSM 850	4TX	Open	E	19.08	Rear	5	1:2.07	0.341	23.8	23.8
836.6	190	GSM 850	4TX	Open	E	19.08	Front	5	1:2.07	0.130	27.9	
836.6	190	GSM 850	4TX	Close	E	19.08	Rear	5	1:2.07	0.046	32.5	
836.6	190	GSM 850	4TX	Close	E	19.08	Front	5	1:2.07	0.188	26.3	
1 880	661	GSM 1900	4TX	Open	A	18.32	Rear	5	1:2.07	0.436	21.9	21.9
1 880	661	GSM 1900	4TX	Open	A	18.32	Front	5	1:2.07	0.362	22.7	
1 880	661	GSM 1900	4TX	Close	A	18.32	Rear	5	1:2.07	0.336	23.1	
1 880	661	GSM 1900	4TX	Close	A	18.32	Front	5	1:2.07	0.083	29.1	

Note

1. This device has same power levels RSI 0,2 and RSI 3,4. And the test spacing is also same. So, the Body-Worn test results of this model are same as Hotspot test except GSM Hotspot tests. (See table A-9 to A-12)

Table A-9 RSI = 2,4 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		Form Factor	Ant. No.	Frame Averaged Conducted Power (dBm)	Test Position	Spacing (mm)	Duty Cycle	Meas. SAR(1g) (W/kg)	Plimit (dBm)	Minimum Plimit (dBm)
MHz	Ch.											
836.5	190	GSM 850	GPRS4Tx	Open	A	20.68	Rear	5	1:2.07	0.561	23.2	23.2
836.5	190	GSM 850	GPRS4Tx	Open	A	20.68	Front	5	1:2.07	0.374	25.0	
836.5	190	GSM 850	GPRS4Tx	Open	A	20.68	Right	5	1:2.07	0.353	25.2	
836.5	190	GSM 850	GPRS4Tx	Open	A	20.68	Bottom	5	1:2.07	0.491	23.8	
836.5	190	GSM 850	GPRS4Tx	Close	A	20.68	Rear	5	1:2.07	0.311	25.8	
836.5	190	GSM 850	GPRS4Tx	Close	A	20.68	Front	5	1:2.07	0.027	36.4	
836.5	190	GSM 850	GPRS4Tx	Close	A	20.68	Right	5	1:2.07	0.293	26.0	
836.5	190	GSM 850	GPRS4Tx	Close	A	20.68	Bottom	5	1:2.07	0.390	24.8	
836.5	190	GSM 850	GPRS4Tx	Open	E	19.08	Rear	5	1:2.07	0.341	23.8	22.7
836.5	190	GSM 850	GPRS4Tx	Open	E	19.08	Front	5	1:2.07	0.13	27.9	
836.5	190	GSM 850	GPRS4Tx	Open	E	19.08	Left	5	1:2.07	0.434	22.7	
836.5	190	GSM 850	GPRS4Tx	Open	E	19.08	Top	5	1:2.07	0.028	34.6	
836.5	190	GSM 850	GPRS4Tx	Close	E	19.08	Rear	5	1:2.07	0.046	32.5	
836.5	190	GSM 850	GPRS4Tx	Close	E	19.08	Front	5	1:2.07	0.188	26.3	
836.5	190	GSM 850	GPRS4Tx	Close	E	19.08	Left	5	1:2.07	0.282	24.6	
836.5	190	GSM 850	GPRS4Tx	Close	E	19.08	Top	5	1:2.07	0.013	37.9	
836.5	190	GSM 850	GPRS4Tx	Close	E	19.08	Bottom	5	1:2.07	0.022	35.7	
1 850	512	GSM 1900	GPRS4Tx	Open	B	18.32	Rear	5	1:2.07	0.436	21.9	20.1
1 850	512	GSM 1900	GPRS4Tx	Open	B	18.32	Front	5	1:2.07	0.362	22.7	
1 850	512	GSM 1900	GPRS4Tx	Open	B	18.32	Left	5	1:2.07	0.297	23.6	
1 850	512	GSM 1900	GPRS4Tx	Open	B	18.32	Bottom	5	1:2.07	0.666	20.1	
1 850	512	GSM 1900	GPRS4Tx	Close	B	18.32	Rear	5	1:2.07	0.336	23.1	
1 850	512	GSM 1900	GPRS4Tx	Close	B	18.32	Front	5	1:2.07	0.083	29.1	
1 850	512	GSM 1900	GPRS4Tx	Close	B	18.32	Left	5	1:2.07	0.175	25.9	
1 850	512	GSM 1900	GPRS4Tx	Close	B	18.32	Bottom	5	1:2.07	0.610	20.5	

MEASUREMENT RESULTS												
Frequency		Mode/ Band		Form Factor	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)
836.5	4183	UMTS Band 5	RMC	Open	A	22.52	Rear	5	1:1	0.853	23.2	23.2
836.5	4183	UMTS Band 5	RMC	Open	A	22.52	Front	5	1:1	0.353	27.0	
836.5	4183	UMTS Band 5	RMC	Open	A	22.52	Right	5	1:1	0.476	25.7	
836.5	4183	UMTS Band 5	RMC	Open	A	22.52	Bottom	5	1:1	0.793	23.5	
836.5	4183	UMTS Band 5	RMC	Close	A	22.52	Rear	5	1:1	0.535	25.2	
836.5	4183	UMTS Band 5	RMC	Close	A	22.52	Front	5	1:1	0.094	32.8	
836.5	4183	UMTS Band 5	RMC	Close	A	22.52	Right	5	1:1	0.267	28.3	
836.5	4183	UMTS Band 5	RMC	Close	A	22.52	Bottom	5	1:1	0.327	27.4	
836.5	4183	UMTS Band 5	RMC	Open	E	19.16	Rear	5	1:1	0.378	26.0	24.1
836.5	4183	UMTS Band 5	RMC	Open	E	19.16	Front	5	1:1	0.334	25.2	
836.5	4183	UMTS Band 5	RMC	Open	E	19.16	Left	5	1:1	0.516	24.1	
836.5	4183	UMTS Band 5	RMC	Open	E	19.16	Top	5	1:1	0.032	32.1	
836.5	4183	UMTS Band 5	RMC	Close	E	19.16	Rear	5	1:1	0.088	29.7	
836.5	4183	UMTS Band 5	RMC	Close	E	19.16	Front	5	1:1	0.320	24.1	
836.5	4183	UMTS Band 5	RMC	Close	E	19.16	Left	5	1:1	0.297	24.4	
836.5	4183	UMTS Band 5	RMC	Close	E	19.16	Top	5	1:1	0.016	37.1	
836.5	4183	UMTS Band 5	RMC	Close	E	19.16	Bottom	5	1:1	0.022	35.7	

Table A-10 RSI = 2,4 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	Form Factor	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	Open	B	20	18.86	Rear	5	0	1	99	1:1	0.522	21.7	19.9
1 860	18700	LTE Band 2	Open	B	20	18.86	Front	5	0	1	99	1:1	0.339	23.6	
1 860	18700	LTE Band 2	Open	B	20	18.86	Left	5	0	1	99	1:1	0.238	25.1	
1 860	18700	LTE Band 2	Open	B	20	18.86	Bottom	5	0	1	99	1:1	0.790	19.9	
1 860	18700	LTE Band 2	Close	B	20	18.86	Rear	5	0	1	99	1:1	0.348	23.4	
1 860	18700	LTE Band 2	Close	B	20	18.86	Front	5	0	1	99	1:1	0.105	28.6	
1 860	18700	LTE Band 2	Close	B	20	18.86	Left	5	0	1	99	1:1	0.163	26.7	
1 860	18700	LTE Band 2	Close	B	20	18.86	Bottom	5	0	1	99	1:1	0.682	20.5	
1 860	18700	LTE Band 2	Open	I	20	18.43	Rear	5	0	1	49	1:1	0.160	26.4	24.3
1 860	18700	LTE Band 2	Open	I	20	18.43	Front	5	0	1	49	1:1	0.123	27.5	
1 860	18700	LTE Band 2	Open	I	20	18.43	Right	5	0	1	49	1:1	0.307	23.6	
1 860	18700	LTE Band 2	Open	I	20	18.43	Top	5	0	1	49	1:1	0.037	32.7	
1 860	18700	LTE Band 2	Close	I	20	18.43	Rear	5	0	1	49	1:1	0.038	32.6	
1 860	18700	LTE Band 2	Close	I	20	18.43	Front	5	0	1	49	1:1	0.132	27.2	
1 860	18700	LTE Band 2	Close	I	20	18.43	Right	5	0	1	49	1:1	0.259	24.3	
1 860	18700	LTE Band 2	Close	I	20	18.43	Top	5	0	1	49	1:1	0.000	N/A	
1 860	18700	LTE Band 2	Close	I	20	18.43	Bottom	5	0	1	49	1:1	0.025	34.5	22.6
836.5	20525	LTE Band 5	Open	A	10	21.83	Rear	5	0	1	24	1:1	0.835	22.6	
836.5	20525	LTE Band 5	Open	A	10	21.83	Front	5	0	1	24	1:1	0.599	24.1	
836.5	20525	LTE Band 5	Open	A	10	21.83	Right	5	0	1	24	1:1	0.482	25.0	
836.5	20525	LTE Band 5	Open	A	10	21.83	Bottom	5	0	1	24	1:1	0.763	23.0	
836.5	20525	LTE Band 5	Close	A	10	21.83	Rear	5	0	1	24	1:1	0.735	23.2	
836.5	20525	LTE Band 5	Close	A	10	21.83	Front	5	0	1	24	1:1	0.095	32.1	
836.5	20525	LTE Band 5	Close	A	10	21.83	Right	5	0	1	24	1:1	0.374	26.1	
836.5	20525	LTE Band 5	Close	A	10	21.83	Bottom	5	0	1	24	1:1	0.566	24.3	22.4
836.5	20525	LTE Band 5	Open	E	10	19.22	Rear	5	0	1	24	1:1	0.306	24.4	
836.5	20525	LTE Band 5	Open	E	10	19.22	Front	5	0	1	24	1:1	0.403	23.2	
836.5	20525	LTE Band 5	Open	E	10	19.22	Left	5	0	1	24	1:1	0.486	22.4	
836.5	20525	LTE Band 5	Open	E	10	19.22	Top	5	0	1	24	1:1	0.029	34.6	
836.5	20525	LTE Band 5	Close	E	10	19.22	Rear	5	0	1	24	1:1	0.107	28.9	
836.5	20525	LTE Band 5	Close	E	10	19.22	Front	5	0	1	24	1:1	0.291	24.6	
836.5	20525	LTE Band 5	Close	E	10	19.22	Left	5	0	1	24	1:1	0.295	24.5	
836.5	20525	LTE Band 5	Close	E	10	19.22	Top	5	0	1	24	1:1	0.012	38.4	22.4
836.5	20525	LTE Band 5	Close	E	10	19.22	Bottom	5	0	1	24	1:1	0.024	35.4	

MEASUREMENT RESULTS															
Frequency		Mode	Form Factor	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	Ch.				Mhz	(dBm)			(dB)				(W/kg)	(dBm)	(dBm)
707.5	23095	LTE Band 12	Open	A	10	22.37	Rear	5	0	1	24	1:1	0.684	24.0	24.0
707.5	23095	LTE Band 12	Open	A	10	22.37	Front	5	0	1	24	1:1	0.419	26.1	
707.5	23095	LTE Band 12	Open	A	10	22.37	Right	5	0	1	24	1:1	0.351	26.9	
707.5	23095	LTE Band 12	Open	A	10	22.37	Bottom	5	0	1	24	1:1	0.571	24.8	
707.5	23095	LTE Band 12	Close	A	10	22.37	Rear	5	0	1	24	1:1	0.643	24.3	
707.5	23095	LTE Band 12	Close	A	10	22.37	Front	5	0	1	24	1:1	0.071	33.9	
707.5	23095	LTE Band 12	Close	A	10	22.37	Right	5	0	1	24	1:1	0.265	28.1	
707.5	23095	LTE Band 12	Close	A	10	22.37	Bottom	5	0	1	24	1:1	0.440	25.9	
707.5	23095	LTE Band 12	Open	E	10	18.04	Rear	5	0	1	24	1:1	0.173	25.7	23.3
707.5	23095	LTE Band 12	Open	E	10	18.04	Front	5	0	1	24	1:1	0.238	24.3	
707.5	23095	LTE Band 12	Open	E	10	18.04	Left	5	0	1	24	1:1	0.298	23.3	
707.5	23095	LTE Band 12	Open	E	10	18.04	Top	5	0	1	24	1:1	0.025	34.1	
707.5	23095	LTE Band 12	Close	E	10	18.04	Rear	5	0	1	24	1:1	0.048	31.2	
707.5	23095	LTE Band 12	Close	E	10	18.04	Front	5	0	1	24	1:1	0.153	26.2	
707.5	23095	LTE Band 12	Close	E	10	18.04	Left	5	0	1	24	1:1	0.184	25.4	
707.5	23095	LTE Band 12	Close	E	10	18.04	Top	5	0	1	24	1:1	0.007	39.6	
707.5	23095	LTE Band 12	Close	E	10	18.04	Bottom	5	0	1	24	1:1	0.019	35.3	
782	23230	LTE Band 13	Open	A	10	22.15	Rear	5	0	1	24	1:1	1.02	22.1	22.1
782	23230	LTE Band 13	Open	A	10	22.15	Front	5	0	1	24	1:1	0.711	23.6	
782	23230	LTE Band 13	Open	A	10	22.15	Right	5	0	1	24	1:1	0.533	24.9	
782	23230	LTE Band 13	Open	A	10	22.15	Bottom	5	0	1	24	1:1	0.955	22.3	
782	23230	LTE Band 13	Close	A	10	22.15	Rear	5	0	1	24	1:1	0.588	24.5	
782	23230	LTE Band 13	Close	A	10	22.15	Front	5	0	1	24	1:1	0.082	33.0	
782	23230	LTE Band 13	Close	A	10	22.15	Right	5	0	1	24	1:1	0.554	24.7	
782	23230	LTE Band 13	Close	A	10	22.15	Bottom	5	0	1	24	1:1	0.674	23.9	
782	23230	LTE Band 13	Open	E	10	17.31	Rear	5	0	1	24	1:1	0.168	25.1	22.9
782	23230	LTE Band 13	Open	E	10	17.31	Front	5	0	1	24	1:1	0.197	24.4	
782	23230	LTE Band 13	Open	E	10	17.31	Left	5	0	1	24	1:1	0.279	22.9	
782	23230	LTE Band 13	Open	E	10	17.31	Top	5	0	1	24	1:1	0.017	35.0	
782	23230	LTE Band 13	Close	E	10	17.31	Rear	5	0	1	24	1:1	0.034	32.0	
782	23230	LTE Band 13	Close	E	10	17.31	Front	5	0	1	24	1:1	0.117	26.6	
782	23230	LTE Band 13	Close	E	10	17.31	Left	5	0	1	24	1:1	0.121	26.5	
782	23230	LTE Band 13	Close	E	10	17.31	Top	5	0	1	24	1:1	0.005	40.3	
782	23230	LTE Band 13	Open	E	10	17.31	Bottom	5	0	1	24	1:1	0.013	36.2	

MEASUREMENT RESULTS

Frequency		Mode	Form Factor	Ant. No.	Bandwidth	Frame Averaged Conducted Power	Test Position	Spacing (mm)	MPR	RB Size	RB Offset	Duty Cycle	Meas. SAR (1g)	Plimit	Minimum Plimit
Mhz	Ch.				Mhz								(W/kg)		
2 680	41490	LTE Band 41(PC3)	Open	B	20	19.64	Rear	5	0	1	0	1:1.58	0.771	20.8	20.8
2 680	41490	LTE Band 41(PC3)	Open	B	20	19.64	Front	5	0	1	0	1:1.58	0.334	24.4	
2 680	41490	LTE Band 41(PC3)	Open	B	20	19.64	Left	5	0	1	0	1:1.58	0.191	26.8	
2 680	41490	LTE Band 41(PC3)	Open	B	20	19.64	Bottom	5	0	1	0	1:1.58	0.649	21.5	
2 680	41490	LTE Band 41(PC3)	Close	B	20	19.64	Rear	5	0	1	0	1:1.58	0.560	22.2	
2 680	41490	LTE Band 41(PC3)	Close	B	20	19.64	Front	5	0	1	0	1:1.58	0.046	33.0	
2 680	41490	LTE Band 41(PC3)	Close	B	20	19.64	Left	5	0	1	0	1:1.58	0.157	27.7	
2 680	41490	LTE Band 41(PC3)	Close	B	20	19.64	Bottom	5	0	1	0	1:1.58	0.461	23.0	
2 680	41490	LTE Band 41(PC3)	Open	I	20	17.80	Rear	5	0	1	0	1:1.58	0.355	22.3	19.0
2 680	41490	LTE Band 41(PC3)	Open	I	20	17.80	Front	5	0	1	0	1:1.58	0.279	23.3	
2 680	41490	LTE Band 41(PC3)	Open	I	20	17.80	Right	5	0	1	0	1:1.58	0.648	19.7	
2 680	41490	LTE Band 41(PC3)	Open	I	20	17.80	Top	5	0	1	0	1:1.58	0.076	29.0	
2 680	41490	LTE Band 41(PC3)	Close	I	20	17.80	Rear	5	0	1	0	1:1.58	0.172	25.4	
2 680	41490	LTE Band 41(PC3)	Close	I	20	17.80	Front	5	0	1	0	1:1.58	0.238	24.0	
2 680	41490	LTE Band 41(PC3)	Close	I	20	17.80	Right	5	0	1	0	1:1.58	0.766	19.0	
2 680	41490	LTE Band 41(PC3)	Close	I	20	17.80	Top	5	0	1	0	1:1.58	0.028	33.3	
2 680	41490	LTE Band 41(PC3)	Close	I	20	17.80	Bottom	5	0	1	0	1:1.58	0.036	32.2	
1 770	132572	LTE Band 66	Open	B	20	19.10	Rear	5	0	1	99	1:1	0.618	21.2	20.4
1 770	132572	LTE Band 66	Open	B	20	19.10	Front	5	0	1	99	1:1	0.328	23.9	
1 770	132572	LTE Band 66	Open	B	20	19.10	Left	5	0	1	99	1:1	0.183	26.5	
1 770	132572	LTE Band 66	Open	B	20	19.10	Bottom	5	0	1	99	1:1	0.741	20.4	
1 770	132572	LTE Band 66	Close	B	20	19.10	Rear	5	0	1	99	1:1	0.563	21.6	
1 770	132572	LTE Band 66	Close	B	20	19.10	Front	5	0	1	99	1:1	0.116	28.5	
1 770	132572	LTE Band 66	Close	B	20	19.10	Left	5	0	1	99	1:1	0.108	28.8	
1 770	132572	LTE Band 66	Close	B	20	19.10	Bottom	5	0	1	99	1:1	0.760	20.3	
1 720	132072	LTE Band 66	Open	I	20	20.37	Rear	5	0	1	49	1:1	0.202	27.3	24.7
1 720	132072	LTE Band 66	Open	I	20	20.37	Front	5	0	1	49	1:1	0.279	25.9	
1 720	132072	LTE Band 66	Open	I	20	20.37	Right	5	0	1	49	1:1	0.372	24.7	
1 720	132072	LTE Band 66	Open	I	20	20.37	Top	5	0	1	49	1:1	0.033	35.2	
1 720	132072	LTE Band 66	Close	I	20	20.37	Rear	5	0	1	49	1:1	0.016	38.3	
1 720	132072	LTE Band 66	Close	I	20	20.37	Front	5	0	1	49	1:1	0.091	30.8	
1 720	132072	LTE Band 66	Close	I	20	20.37	Right	5	0	1	49	1:1	0.318	25.3	
1 720	132072	LTE Band 66	Close	I	20	20.37	Top	5	0	1	49	1:1	0.000	N/A	
1 720	132072	LTE Band 66	Close	I	20	20.37	Bottom	5	0	1	49	1:1	0.026	36.2	

Table A-11 RSI = 2,4 *PLimit* Calculations – NR Hotspot SAR

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

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

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

MEASUREMENT RESULTS																
Frequency		Mode	Form Factor	Ant. No.	Band width	Frame Averaged Conducted Power	Test Position		MPR	Spacing (mm)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimu Plimit
Mhz	Ch.				Mhz	(dBm)			(dB)	(W/kg)	(dBm)	(dBm)				
836.5	167300	NR Band n5	Open	A	20	23.49	Rear	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.576	25.9	25.6
836.5	167300	NR Band n5	Open	A	20	23.49	Front	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.497	26.5	
836.5	167300	NR Band n5	Open	A	20	23.49	Right	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.425	27.2	
836.5	167300	NR Band n5	Open	A	20	23.49	Bottom	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.618	25.6	
836.5	167300	NR Band n5	Close	A	20	23.49	Rear	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.501	26.5	
836.5	167300	NR Band n5	Close	A	20	23.49	Front	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.037	37.8	
836.5	167300	NR Band n5	Close	A	20	23.49	Right	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.015	41.7	
836.5	167300	NR Band n5	Close	A	20	23.49	Bottom	DFT-s-OFDM QPSK	0	5	1	53	1:1	0.402	27.4	
836.5	167300	NR Band n5	Open	E	20	19.91	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.314	24.9	24.0
836.5	167300	NR Band n5	Open	E	20	19.91	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.330	24.7	
836.5	167300	NR Band n5	Open	E	20	19.91	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.388	24.0	
836.5	167300	NR Band n5	Open	E	20	19.91	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.022	36.5	
836.5	167300	NR Band n5	Close	E	20	19.91	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.169	27.6	
836.5	167300	NR Band n5	Close	E	20	19.91	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.191	27.1	
836.5	167300	NR Band n5	Close	E	20	19.91	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.194	27.0	
836.5	167300	NR Band n5	Close	E	20	19.91	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.004	43.9	
836.5	167300	NR Band n5	Close	E	20	19.91	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.016	37.9	
2 592.99	518598	NR Band n41	Open	B	100	20.47	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.623	22.5	21.7
2 592.99	518598	NR Band n41	Open	B	100	20.47	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.364	24.9	
2 592.99	518598	NR Band n41	Open	B	100	20.47	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.157	28.5	
2 592.99	518598	NR Band n41	Open	B	100	20.47	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.588	22.8	
2 592.99	518598	NR Band n41	Close	B	100	20.47	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.748	21.7	
2 592.99	518598	NR Band n41	Close	B	100	20.47	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.061	32.6	
2 592.99	518598	NR Band n41	Close	B	100	20.47	Left	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.137	29.1	
2 592.99	518598	NR Band n41	Close	B	100	20.47	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.532	23.2	
2 592.99	518598	NR Band n41	Open	I	100	18.49	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.450	22.0	18.7
2 592.99	518598	NR Band n41	Open	I	100	18.49	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.496	21.5	
2 592.99	518598	NR Band n41	Open	I	100	18.49	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.842	19.2	
2 592.99	518598	NR Band n41	Open	I	100	18.49	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.124	27.6	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Rear	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.202	25.4	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Front	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.419	22.3	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Right	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.953	18.7	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Top	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.038	32.7	
2 592.99	518598	NR Band n41	Close	I	100	18.49	Bottom	DFT-s-OFDM QPSK	0	5	1	1	1:1	0.136	27.2	

MEASUREMENT RESULTS																
Frequency		Mode	Form Factor	Ant. No.	Band width	Frame Averaged Conduct ed Power	Test Position		MPR	Spa cing (m m)	RB Size	RB offset	Duty Cycle	Meas. SAR(1g)	Plimit	Minimum Plimit
Mhz	Ch.					Mhz (dBm)			(dB)					(W/kg)	(dBm)	(dBm)
1 745	349000	NR Band n66	Open	B	40	19.73	Rear	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.791	20.7	20.7
1 745	349000	NR Band n66	Open	B	40	19.73	Front	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.277	25.3	
1 745	349000	NR Band n66	Open	B	40	19.73	Left	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.190	26.9	
1 745	349000	NR Band n66	Open	B	40	19.73	Bottom	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.676	21.4	
1 745	349000	NR Band n66	Close	B	40	19.73	Rear	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.453	23.2	
1 745	349000	NR Band n66	Close	B	40	19.73	Front	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.115	29.1	
1 745	349000	NR Band n66	Close	B	40	19.73	Left	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.117	29.0	
1 745	349000	NR Band n66	Close	B	40	19.73	Bottom	DFT-S-OFDM QPSK	0	5	1	214	1:1	0.687	21.4	
1 745	349000	NR Band n66	Open	I	40	20.21	Rear	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.267	25.9	22.8
1 745	349000	NR Band n66	Open	I	40	20.21	Front	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.261	26.0	
1 745	349000	NR Band n66	Open	I	40	20.21	Right	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.554	22.8	
1 745	349000	NR Band n66	Open	I	40	20.21	Bottom	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.040	34.2	
1 745	349000	NR Band n66	Close	I	40	20.21	Rear	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.015	38.4	
1 745	349000	NR Band n66	Close	I	40	20.21	Front	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.097	30.3	
1 745	349000	NR Band n66	Close	I	40	20.21	Right	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.263	26.0	
1 745	349000	NR Band n66	Close	I	40	20.21	Top	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.000	-	
1 745	349000	NR Band n66	Close	I	40	20.21	Bottom	DFT-S-OFDM QPSK	0	5	1	1	1:1	0.016	38.2	

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

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width (MHz)	Form Factor	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas.	Scaling	Plimit	Minimum
Mhz	Ch.						Conducted Power (dBm)				SAR(1g) (W/kg)	Factor (Duty)	(dBm)	Plimit (dBm)
2 462	11	802.11b	20	Open	G	1Mbps	15.44	Rear	WIFI1	98.8	0.255	1.012	21.4	18.8
2 462	11	802.11b	20	Open	G	1Mbps	15.44	Front	WIFI1	98.8	0.223	1.012	22.0	
2 462	11	802.11b	20	Open	G	1Mbps	15.44	Left	WIFI1	98.8	0.038	1.012	29.6	
2 462	11	802.11b	20	Open	G	1Mbps	15.44	Top	WIFI1	98.8	0.46	1.012	18.8	
2 462	11	802.11b	20	Close	G	1Mbps	15.44	Rear	WIFI1	98.8	0.058	1.012	27.8	
2 462	11	802.11b	20	Close	G	1Mbps	15.44	Front	WIFI1	98.8	0.133	1.012	24.2	
2 462	11	802.11b	20	Close	G	1Mbps	15.44	Left	WIFI1	98.8	0.038	1.012	29.6	
2 462	11	802.11b	20	Close	G	1Mbps	15.44	Bottom	WIFI1	98.8	0.327	1.012	20.3	
2 462	11	802.11b	20	Open	H	1Mbps	13.72	Rear	WIFI2	98.8	0.033	1.012	28.5	25.0
2 462	11	802.11b	20	Open	H	1Mbps	13.72	Front	WIFI2	98.8	0.075	1.012	25.0	
2 462	11	802.11b	20	Open	H	1Mbps	13.72	Right	WIFI2	98.8	0.00727	1.012	35.3	
2 462	11	802.11b	20	Open	H	1Mbps	13.72	Top	WIFI2	98.8	0.044	1.012	27.3	
2 462	11	802.11b	20	Close	H	1Mbps	13.72	Rear	WIFI2	98.8	0.023	1.012	30.1	
2 462	11	802.11b	20	Close	H	1Mbps	13.72	Front	WIFI2	98.8	0.029	1.012	29.1	
2 462	11	802.11b	20	Close	H	1Mbps	13.72	Right	WIFI2	98.8	0.00934	1.012	34.2	
2 462	11	802.11b	20	Close	H	1Mbps	13.72	Bottom	WIFI2	98.8	0.044	1.012	27.3	
2 462	11	802.11b	20	Open	G+H	1Mbps	13.72	Rear	MIMO	98.8	0.213	1.012	20.4	18.4
2 462	11	802.11b	20	Open	G+H	1Mbps	13.72	Front	MIMO	98.8	0.210	1.012	20.5	
2 462	11	802.11b	20	Open	G+H	1Mbps	13.72	Left	MIMO	98.8	0.037	1.012	28.0	
2 462	11	802.11b	20	Open	G+H	1Mbps	13.72	Right	MIMO	98.8	0.024	1.012	29.9	
2 462	11	802.11b	20	Open	G+H	1Mbps	13.72	Top	MIMO	98.8	0.311	1.012	18.8	
2 462	11	802.11b	20	Close	G+H	1Mbps	13.72	Rear	MIMO	98.8	0.068	1.012	25.4	
2 462	11	802.11b	20	Close	G+H	1Mbps	13.72	Front	MIMO	98.8	0.232	1.012	20.1	
2 462	11	802.11b	20	Close	G+H	1Mbps	13.72	Left	MIMO	98.8	0.041	1.012	27.6	
2 462	11	802.11b	20	Close	G+H	1Mbps	13.72	Right	MIMO	98.8	0.032	1.012	28.7	
2 462	11	802.11b	20	Close	G+H	1Mbps	13.72	Bottom	MIMO	98.8	0.339	1.012	18.4	
5 290	58	802.11ac	80	Open	F	MCS0	15.95	Rear	WIFI1	85.9	0.466	1.164	19.3	18.5
5 290	58	802.11ac	80	Open	F	MCS0	15.95	Front	WIFI1	85.9	0.230	1.164	22.3	
5 290	58	802.11ac	80	Open	F	MCS0	15.95	Left	WIFI1	85.9	0.562	1.164	18.5	
5 290	58	802.11ac	80	Open	F	MCS0	15.95	Top	WIFI1	85.9	0.163	1.164	23.8	
5 290	58	802.11ac	80	Close	F	MCS0	15.95	Rear	WIFI1	85.9	0.028	1.164	31.5	
5 290	58	802.11ac	80	Close	F	MCS0	15.95	Front	WIFI1	85.9	0.356	1.164	20.4	
5 290	58	802.11ac	80	Close	F	MCS0	15.95	Left	WIFI1	85.9	0.536	1.164	18.7	
5 290	58	802.11ac	80	Close	F	MCS0	15.95	Bottom	WIFI1	85.9	0.151	1.164	24.2	

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width	Form Factor	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.						Conducted Power							
			(MHz)				(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5 530	106	802.11ac	80	Open	F	MCS0	15.40	Rear	WIFI1	85.9	0.207	1.164	22.2	19.0
5 530	106	802.11ac	80	Open	F	MCS0	15.40	Front	WIFI1	85.9	0.416	1.164	19.2	
5 530	106	802.11ac	80	Open	F	MCS0	15.40	Left	WIFI1	85.9	0.441	1.164	19.0	
5 530	106	802.11ac	80	Open	F	MCS0	15.40	Top	WIFI1	85.9	0.120	1.164	24.6	
5 530	106	802.11ac	80	Close	F	MCS0	15.40	Rear	WIFI1	85.9	0.013	1.164	34.3	
5 530	106	802.11ac	80	Close	F	MCS0	15.40	Front	WIFI1	85.9	0.258	1.164	21.3	
5 530	106	802.11ac	80	Close	F	MCS0	15.40	Left	WIFI1	85.9	0.249	1.164	21.4	
5 530	106	802.11ac	80	Close	F	MCS0	15.40	Bottom	WIFI1	85.9	0.129	1.164	24.3	
5 755	155	802.11ac	80	Open	F	MCS0	15.71	Rear	WIFI1	85.9	0.162	1.164	23.6	21.8
5 755	155	802.11ac	80	Open	F	MCS0	15.71	Front	WIFI1	85.9	0.075	1.164	27.0	
5 755	155	802.11ac	80	Open	F	MCS0	15.71	Left	WIFI1	85.9	0.248	1.164	21.8	
5 755	155	802.11ac	80	Open	F	MCS0	15.71	Top	WIFI1	85.9	0.052	1.164	28.5	
5 755	155	802.11ac	80	Close	F	MCS0	15.71	Rear	WIFI1	85.9	0.00932	1.164	36.2	
5 755	155	802.11ac	80	Close	F	MCS0	15.71	Front	WIFI1	85.9	0.147	1.164	24.0	
5 755	155	802.11ac	80	Close	F	MCS0	15.71	Left	WIFI1	85.9	0.208	1.164	22.5	
5 755	155	802.11ac	80	Close	F	MCS0	15.71	Bottom	WIFI1	85.9	0.080	1.164	26.7	
5 855	171	802.11ac	80	Open	F	MCS0	15.82	Rear	WIFI1	85.9	0.121	1.164	25.0	22.7
5 855	171	802.11ac	80	Open	F	MCS0	15.82	Front	WIFI1	85.9	0.108	1.164	25.5	
5 855	171	802.11ac	80	Open	F	MCS0	15.82	Left	WIFI1	85.9	0.196	1.164	22.9	
5 855	171	802.11ac	80	Open	F	MCS0	15.82	Top	WIFI1	85.9	0.081	1.164	26.7	
5 855	171	802.11ac	80	Close	F	MCS0	15.82	Rear	WIFI1	85.9	0.000	1.164	N/A	
5 855	171	802.11ac	80	Close	F	MCS0	15.82	Front	WIFI1	85.9	0.094	1.164	26.1	
5 855	171	802.11ac	80	Close	F	MCS0	15.82	Left	WIFI1	85.9	0.206	1.164	22.7	
5 855	171	802.11ac	80	Close	F	MCS0	15.82	Bottom	WIFI1	85.9	0.060	1.164	28.0	
5 290	58	802.11ac	80	Open	H	MCS0	15.34	Rear	WIFI2	85.9	0.126	1.164	24.3	24.3
5 290	58	802.11ac	80	Open	H	MCS0	15.34	Front	WIFI2	85.9	0.115	1.164	24.7	
5 290	58	802.11ac	80	Open	H	MCS0	15.34	Right	WIFI2	85.9	0.00652	1.164	36.9	
5 290	58	802.11ac	80	Open	H	MCS0	15.34	Top	WIFI2	85.9	0.031	1.164	30.4	
5 290	58	802.11ac	80	Close	H	MCS0	15.34	Rear	WIFI2	85.9	0.021	1.164	32.1	
5 290	58	802.11ac	80	Close	H	MCS0	15.34	Front	WIFI2	85.9	0.068	1.164	27.0	
5 290	58	802.11ac	80	Close	H	MCS0	15.34	Right	WIFI2	85.9	0.021	1.164	32.1	
5 290	58	802.11ac	80	Close	H	MCS0	15.34	Bottom	WIFI2	85.9	0.016	1.164	33.3	
5 690	138	802.11ac	80	Open	H	MCS0	15.51	Rear	WIFI2	85.9	0.085	1.164	26.2	25.4
5 690	138	802.11ac	80	Open	H	MCS0	15.51	Front	WIFI2	85.9	0.103	1.164	25.4	
5 690	138	802.11ac	80	Open	H	MCS0	15.51	Right	WIFI2	85.9	0.018	1.164	33.0	
5 690	138	802.11ac	80	Open	H	MCS0	15.51	Top	WIFI2	85.9	0.059	1.164	27.8	
5 690	138	802.11ac	80	Close	H	MCS0	15.51	Rear	WIFI2	85.9	0.010	1.164	35.5	
5 690	138	802.11ac	80	Close	H	MCS0	15.51	Front	WIFI2	85.9	0.027	1.164	31.2	
5 690	138	802.11ac	80	Close	H	MCS0	15.51	Right	WIFI2	85.9	0.013	1.164	34.4	
5 690	138	802.11ac	80	Close	H	MCS0	15.51	Bottom	WIFI2	85.9	0.062	1.164	27.6	

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width	Form Factor	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
MHz	Ch.						Conducted Power							
			(MHz)				(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5 755	155	802.11ac	80	Open	H	MCS0	15.90	Rear	WIFI2	85.9	0.101	1.164	25.9	23.9
5 755	155	802.11ac	80	Open	H	MCS0	15.90	Front	WIFI2	85.9	0.157	1.164	23.9	
5 755	155	802.11ac	80	Open	H	MCS0	15.90	Right	WIFI2	85.9	0.035	1.164	30.5	
5 755	155	802.11ac	80	Open	H	MCS0	15.90	Top	WIFI2	85.9	0.046	1.164	29.3	
5 755	155	802.11ac	80	Close	H	MCS0	15.90	Rear	WIFI2	85.9	0.012	1.164	35.1	
5 755	155	802.11ac	80	Close	H	MCS0	15.90	Front	WIFI2	85.9	0.050	1.164	28.9	
5 755	155	802.11ac	80	Close	H	MCS0	15.90	Right	WIFI2	85.9	0.039	1.164	30.0	
5 755	155	802.11ac	80	Close	H	MCS0	15.90	Bottom	WIFI2	85.9	0.100	1.164	25.9	
5 855	171	802.11ac	80	Open	H	MCS0	15.95	Rear	WIFI2	85.9	0.121	1.164	25.1	23.9
5 855	171	802.11ac	80	Open	H	MCS0	15.95	Front	WIFI2	85.9	0.159	1.164	23.9	
5 855	171	802.11ac	80	Open	H	MCS0	15.95	Right	WIFI2	85.9	0.049	1.164	29.0	
5 855	171	802.11ac	80	Open	H	MCS0	15.95	Top	WIFI2	85.9	0.071	1.164	27.4	
5 855	171	802.11ac	80	Close	H	MCS0	15.95	Rear	WIFI2	85.9	0.00813	1.164	36.9	
5 855	171	802.11ac	80	Close	H	MCS0	15.95	Front	WIFI2	85.9	0.086	1.164	26.6	
5 855	171	802.11ac	80	Close	H	MCS0	15.95	Right	WIFI2	85.9	0.067	1.164	27.7	
5 855	171	802.11ac	80	Close	H	MCS0	15.95	Bottom	WIFI2	85.9	0.131	1.164	24.8	
5 290	58	802.11ac	80	Open	F+H	MCS0	15.34	Rear	MIMO	85.9	0.374	1.164	19.6	17.9
5 290	58	802.11ac	80	Open	F+H	MCS0	15.34	Front	MIMO	85.9	0.237	1.164	21.6	
5 290	58	802.11ac	80	Open	F+H	MCS0	15.34	Left	MIMO	85.9	0.552	1.164	17.9	
5 290	58	802.11ac	80	Open	F+H	MCS0	15.34	Right	MIMO	85.9	0.000667	1.164	45.3	
5 290	58	802.11ac	80	Open	F+H	MCS0	15.34	Top	MIMO	85.9	0.180	1.164	22.8	
5 290	58	802.11ac	80	Close	F+H	MCS0	15.34	Rear	MIMO	85.9	0.044	1.164	28.9	
5 290	58	802.11ac	80	Close	F+H	MCS0	15.34	Front	MIMO	85.9	0.384	1.164	19.5	
5 290	58	802.11ac	80	Close	F+H	MCS0	15.34	Left	MIMO	85.9	0.536	1.164	18.0	
5 290	58	802.11ac	80	Close	F+H	MCS0	15.34	Right	MIMO	85.9	0.033	1.164	30.2	19.7
5 290	58	802.11ac	80	Close	F+H	MCS0	15.34	Bottom	MIMO	85.9	0.163	1.164	23.2	
5 690	138	802.11ac	80	Open	F+H	MCS0	15.28	Rear	MIMO	85.9	0.100	1.164	25.3	
5 690	138	802.11ac	80	Open	F+H	MCS0	15.28	Front	MIMO	85.9	0.123	1.164	24.4	
5 690	138	802.11ac	80	Open	F+H	MCS0	15.28	Left	MIMO	85.9	0.220	1.164	21.9	
5 690	138	802.11ac	80	Open	F+H	MCS0	15.28	Right	MIMO	85.9	0.015	1.164	33.5	
5 690	138	802.11ac	80	Open	F+H	MCS0	15.28	Top	MIMO	85.9	0.087	1.164	25.9	
5 690	138	802.11ac	80	Close	F+H	MCS0	15.28	Rear	MIMO	85.9	0.000	1.164	N/A	
5 690	138	802.11ac	80	Close	F+H	MCS0	15.28	Front	MIMO	85.9	0.163	1.164	23.2	19.7
5 690	138	802.11ac	80	Close	F+H	MCS0	15.28	Left	MIMO	85.9	0.362	1.164	19.7	
5 690	138	802.11ac	80	Close	F+H	MCS0	15.28	Right	MIMO	85.9	0.025	1.164	31.3	
5 690	138	802.11ac	80	Close	F+H	MCS0	15.28	Bottom	MIMO	85.9	0.154	1.164	23.4	

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width	Form Factor	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas.	Scaling	Plimit	Minimum Plimit
							Conducted Power				SAR(1g)	Factor		
MHz	Ch.		(MHz)				(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
5 755	155	802.11ac	80	Open	F+H	MCS0	15.71	Rear	MIMO	85.9	0.127	1.164	24.7	20.7
5 755	155	802.11ac	80	Open	F+H	MCS0	15.71	Front	MIMO	85.9	0.150	1.164	23.9	
5 755	155	802.11ac	80	Open	F+H	MCS0	15.71	Left	MIMO	85.9	0.260	1.164	21.6	
5 755	155	802.11ac	80	Open	F+H	MCS0	15.71	Right	MIMO	85.9	0.049	1.164	28.8	
5 755	155	802.11ac	80	Open	F+H	MCS0	15.71	Top	MIMO	85.9	0.143	1.164	24.2	
5 755	155	802.11ac	80	Close	F+H	MCS0	15.71	Rear	MIMO	85.9	0.012	1.164	34.9	
5 755	155	802.11ac	80	Close	F+H	MCS0	15.71	Front	MIMO	85.9	0.150	1.164	23.9	
5 755	155	802.11ac	80	Close	F+H	MCS0	15.71	Left	MIMO	85.9	0.319	1.164	20.7	
5 755	155	802.11ac	80	Close	F+H	MCS0	15.71	Right	MIMO	85.9	0.049	1.164	28.8	
5 755	155	802.11ac	80	Close	F+H	MCS0	15.71	Bottom	MIMO	85.9	0.187	1.164	23.0	
5 855	171	802.11ac	80	Open	F+H	MCS0	15.82	Rear	MIMO	85.9	0.186	1.164	23.1	21.4
5 855	171	802.11ac	80	Open	F+H	MCS0	15.82	Front	MIMO	85.9	0.226	1.164	22.3	
5 855	171	802.11ac	80	Open	F+H	MCS0	15.82	Left	MIMO	85.9	0.275	1.164	21.4	
5 855	171	802.11ac	80	Open	F+H	MCS0	15.82	Right	MIMO	85.9	0.084	1.164	26.6	
5 855	171	802.11ac	80	Open	F+H	MCS0	15.82	Top	MIMO	85.9	0.165	1.164	23.6	
5 855	171	802.11ac	80	Close	F+H	MCS0	15.82	Rear	MIMO	85.9	0.052	1.164	28.7	
5 855	171	802.11ac	80	Close	F+H	MCS0	15.82	Front	MIMO	85.9	0.212	1.164	22.6	
5 855	171	802.11ac	80	Close	F+H	MCS0	15.82	Left	MIMO	85.9	0.273	1.164	21.5	
5 855	171	802.11ac	80	Close	F+H	MCS0	15.82	Right	MIMO	85.9	0.069	1.164	27.4	
5 855	171	802.11ac	80	Close	F+H	MCS0	15.82	Bottom	MIMO	85.9	0.164	1.164	23.7	

MEASUREMENT RESULTS														
Frequency		Mode/ Band	Band width	Form Factor	Ant. No.	Data Rate	Frame Averaged	Test Position	Ant. Config.	Duty Cycle	Meas. SAR(1g)	Scaling Factor	Plimit	Minimum Plimit
Mhz	Ch.						Conducted Power							
			(Mhz)				(dBm)				(W/kg)	(Duty)	(dBm)	(dBm)
6 165	43	802.11ax40	40	Open	F	MCS0	10.69	Rear	WIFI1	99.6	0.000	1.004	N/A	23.5
6 165	43	802.11ax40	40	Open	F	MCS0	10.69	Front	WIFI1	99.6	0.009	1.004	31.1	
6 165	43	802.11ax40	40	Open	F	MCS0	10.69	Left	WIFI1	99.6	0.052	1.004	23.5	
6 165	43	802.11ax40	40	Open	F	MCS0	10.69	Top	WIFI1	99.6	0.024	1.004	26.9	
6 165	43	802.11ax40	40	Close	F	MCS0	10.69	Rear	WIFI1	99.6	0.000	1.004	N/A	
6 165	43	802.11ax40	40	Close	F	MCS0	10.69	Front	WIFI1	99.6	0.027	1.004	26.4	
6 165	43	802.11ax40	40	Close	F	MCS0	10.69	Left	WIFI1	99.6	0.031	1.004	25.8	
6 165	43	802.11ax40	40	Close	F	MCS0	10.69	Bottom	WIFI1	99.6	0.000	1.004	N/A	26.1
6 525	115	802.11ax40	40	Open	H	MCS0	10.75	Rear	WIFI2	99.6	0.004	1.004	34.7	
6 525	115	802.11ax40	40	Open	H	MCS0	10.75	Front	WIFI2	99.6	0.029	1.004	26.1	
6 525	115	802.11ax40	40	Open	H	MCS0	10.75	Right	WIFI2	99.6	0	1.004	N/A	
6 525	115	802.11ax40	40	Open	H	MCS0	10.75	Top	WIFI2	99.6	0.005	1.004	33.8	
6 525	115	802.11ax40	40	Close	H	MCS0	10.75	Rear	WIFI2	99.6	0	1.004	N/A	
6 525	115	802.11ax40	40	Close	H	MCS0	10.75	Front	WIFI2	99.6	0	1.004	N/A	
6 525	115	802.11ax40	40	Close	H	MCS0	10.75	Right	WIFI2	99.6	0.017	1.004	28.4	
6 525	115	802.11ax40	40	Close	H	MCS0	10.75	Bottom	WIFI2	99.6	0	1.004	N/A	23.5
6 165	43	802.11ax40	40	Open	F+H	MCS0	10.69	Rear	MIMO	99.6	0.004	1.004	34.7	
6 165	43	802.11ax40	40	Open	F+H	MCS0	10.69	Front	MIMO	99.6	0.038	1.004	24.9	
6 165	43	802.11ax40	40	Open	F+H	MCS0	10.69	Left	MIMO	99.6	0.052	1.004	23.5	
6 165	43	802.11ax40	40	Open	F+H	MCS0	10.69	Right	MIMO	99.6	0.029	1.004	26.1	
6 165	43	802.11ax40	40	Open	F+H	MCS0	10.69	Top	MIMO	99.6	0.000	1.004	N/A	
6 165	43	802.11ax40	40	Close	F+H	MCS0	10.69	Rear	MIMO	99.6	0.000	1.004	N/A	
6 165	43	802.11ax40	40	Close	F+H	MCS0	10.69	Front	MIMO	99.6	0.027	1.004	26.4	
6 165	43	802.11ax40	40	Close	F+H	MCS0	10.69	Left	MIMO	99.6	0.048	1.004	23.9	
6 165	43	802.11ax40	40	Close	F+H	MCS0	10.69	Right	MIMO	99.6	0.000	1.004	N/A	
6 165	43	802.11ax40	40	Close	F+H	MCS0	10.69	Top	MIMO	99.6	0.000	1.004	N/A	

MEASUREMENT RESULTS											
Frequency		Mode/ Band	Form Factor	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)
2 402	0	DH5	Open	G	18.62	Rear	Bluetooth1	0.104	1.013	28.4	23.9
2 402	0	DH5	Open	G	18.62	Front	Bluetooth1	0.074	1.013	29.9	
2 402	0	DH5	Open	G	18.62	Left	Bluetooth1	0.016	1.013	36.6	
2 402	0	DH5	Open	G	18.62	Top	Bluetooth1	0.298	1.013	23.9	
2 402	0	DH5	Close	G	18.62	Rear	Bluetooth1	0.043	1.013	32.3	
2 402	0	DH5	Close	G	18.62	Front	Bluetooth1	0.104	1.013	28.4	
2 402	0	DH5	Close	G	18.62	Left	Bluetooth1	0.022	1.013	35.2	
2 402	0	DH5	Close	G	18.62	Bottom	Bluetooth1	0.251	1.013	24.6	
2 402	0	DH5	Open	H	19.03	Rear	Bluetooth2	0.103	1.013	28.9	24.4
2 402	0	DH5	Open	H	19.03	Front	Bluetooth2	0.290	1.013	24.4	
2 402	0	DH5	Open	H	19.03	Right	Bluetooth2	0.032	1.013	34.0	
2 402	0	DH5	Open	H	19.03	Top	Bluetooth2	0.187	1.013	26.3	
2 402	0	DH5	Close	H	19.03	Rear	Bluetooth2	0.081	1.013	29.9	
2 402	0	DH5	Close	H	19.03	Front	Bluetooth2	0.111	1.013	28.6	
2 402	0	DH5	Close	H	19.03	Right	Bluetooth2	0.039	1.013	33.1	
2 402	0	DH5	Close	H	19.03	Bottom	Bluetooth2	0.167	1.013	26.8	
2 441	39	DH5	Open	G+H	14.32	Rear	Dual	0.190	1.013	21.5	17.0
2 441	39	DH5	Open	G+H	14.32	Front	Dual	0.202	1.013	21.3	
2 441	39	DH5	Open	G+H	14.32	Left	Dual	0.017	1.013	32.0	
2 441	39	DH5	Open	G+H	14.32	Right	Dual	0.028	1.013	29.8	
2 441	39	DH5	Open	G+H	14.32	Top	Dual	0.541	1.013	17.0	
2 441	39	DH5	Close	G+H	14.32	Rear	Dual	0.066	1.013	26.1	
2 441	39	DH5	Close	G+H	14.32	Front	Dual	0.263	1.013	20.1	
2 441	39	DH5	Close	G+H	14.32	Left	Dual	0.027	1.013	30.0	
2 441	39	DH5	Close	G+H	14.32	Right	Dual	0.019	1.013	31.5	
2 441	39	DH5	Close	G+H	14.32	Bottom	Dual	0.485	1.013	17.5	