



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR240700286108

Page: 1 of 228

FCC SAR TEST REPORT

Application No.: SZCR2407002861WM
Applicant: vivo Mobile Communication Co., Ltd.
Manufacturer: vivo Mobile Communication Co., Ltd.
EUT Description: Mobile Phone
Model No.: V2418
Trade Mark: vivo
FCC ID: 2AUCY-V2418
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024/07/22
Date of Test: 2024/07/25 to 2024/08/17
Date of Issue: 2024/08/20

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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Revision History

Report Number	Revision	Description	Issue Date
SZCR240700286108	01	Original	2024/08/20

Authorized for issue by:				
		Sherlock Fang/Project Engineer		
		Eric Fu / Reviewer		



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Test Summary

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.91	0.34	0.34	/
GSM1900	0.59	0.38	0.54	/
WCDMA Band II	0.71	0.44	0.54	2.30
WCDMA Band IV	0.74	0.47	0.58	1.13
WCDMA Band V	0.66	0.24	0.42	/
LTE Band 2	0.66	0.47	0.53	1.29
LTE Band 7	0.79	0.65	0.63	1.99
LTE Band 12/17	0.57	0.20	0.20	/
LTE Band 13	0.54	0.20	0.21	/
LTE Band 26/5	0.63	0.25	0.29	/
LTE Band 38	0.65	0.66	0.58	2.36
LTE Band 41	0.40	0.27	0.30	/
LTE Band 66/4	0.78	0.50	0.84	2.14
NR Band n2	0.76	0.49	0.53	1.99
NR Band n7	0.64	0.35	0.35	1.86
NR Band n26/5	0.54	0.16	0.18	/
NR Band n38	0.77	0.63	0.49	2.14
NR Band n41	0.79	0.59	0.42	2.17
NR Band n66	0.76	0.51	0.61	2.49
NR Band n77	0.85	0.76	0.73	2.06
NR Band n78	0.54	0.30	0.48	/
WI-FI (2.4GHz)	0.48	0.15	0.40	/
WI-FI (5GHz)	0.65	0.35	0.79	0.69
BT	0.35	<0.10	<0.10	/
SAR Limited(W/kg)	1.6			4.0



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Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.39	1.26	1.35	3.79
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note: The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenna.

According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 (frequency range: 1710-1755 MHz) is covered by LTE band 66 (frequency range: 1710-1780 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) are covered by LTE band 26 (frequency range: 814-849 MHz). SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in NR Band n5 (frequency range: 824-849 MHz) are covered by NR Band n26 (frequency range: 814-849 MHz). The SAR in NR Band n38 Ant31 (frequency range: 2570-2620 MHz) is covered by NR Band n41 Ant31 (frequency range: 2496-2690 MHz). The SAR in NR Band n78 Ant11/12 (frequency range: 3450-3550&3700-3800 MHz) is covered by NR Band n77 Ant11/12 (frequency range: 3450-3550&3700-3980 MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.



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1 General Information

1.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No. 1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No. 1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Claire Shen, Charley Yi, Mike Li, Durant Lin, Bernie Zhuang, Messi Chen, James Zheng, Ethan Li

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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1.4 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	V2418		
Trade Mark:	vivo		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	864141079799992; 864141079799398 864141079799471; 864141079799752 864141079799794; 864141079799497 864141079799430; 864141079799711		
Hardware Version:	MP_0.1		
Software Version:	PD2418F_EX_A_14.0.3.8.W30		
Antenna Type:	Intergated Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM LTE: QPSK, 16QAM,64QAM,256QAM 5G NR: DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK, 16QAM,64QAM,256QAM) WIFI: DSSS,OFDM; BT: GFSK, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category:	6
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control "max power"(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894



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	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2200
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78(Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BA27	
	Normal Voltage:	3.91V	
	Rated capacity:	4900mAh	
	Manufacturer:	Sunwoda Electronic CO.,LTD.	



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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 175mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

According to the distance between NR/LTE/WCDMA/GSM/WIFI/BT antennas and the sides of the EUT we can draw the conclusion that:

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant11	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant12	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant13	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant21	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant22	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant23	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant31	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$

Table 1 : Distance of the Antenna to the EUT surface/edge

Note:

- 1) When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.

1.4.2 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation:

- 1) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).
- 4) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.

The detailed power reduction information can be referred to Appendix E Conducted RF Output Power.



1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

Table 2 : The Ambient Conditions



3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

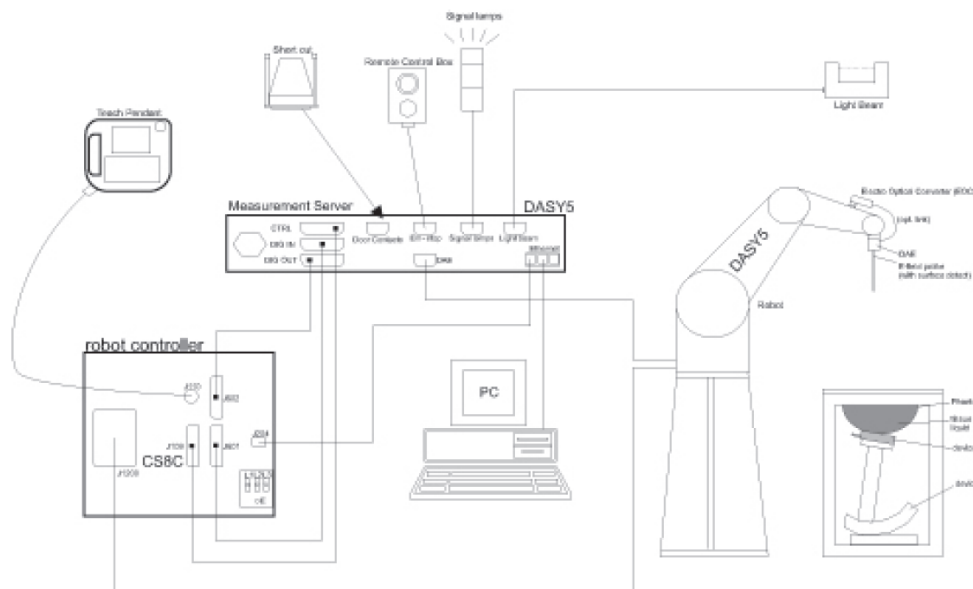
The DASY system for performing compliance tests consists of the following items:

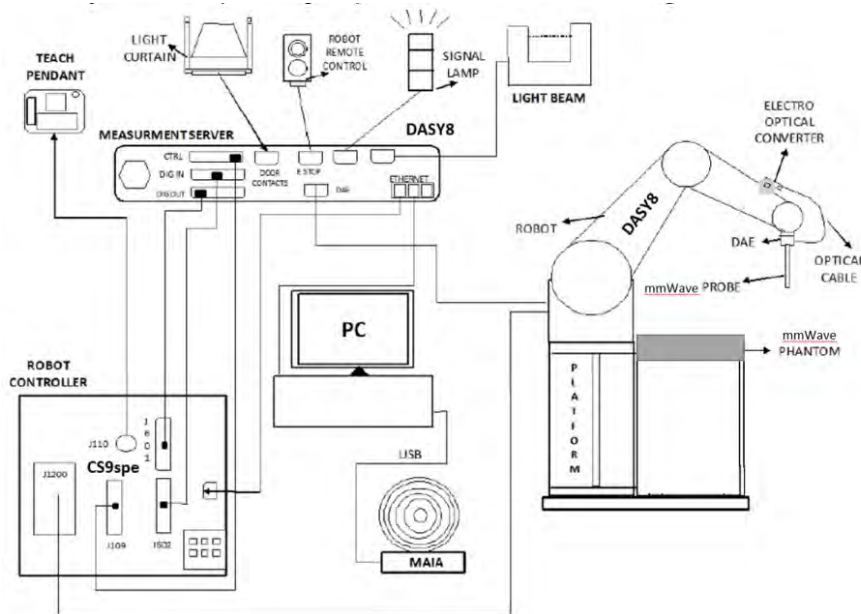
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.





F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5μV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	pprox.. 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm(bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	pprox.. 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm ($f \leq 2\text{GHz}$), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points ($f \leq 2\text{GHz}$), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). 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. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.

		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5 \%$

3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “DAE”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

These parameters must be set correctly in the software. They can be found in the component documents, or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With V_i = compensated signal of channel I (I = x, y, z)

U_i = input signal of channel I (I = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:



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$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With V_i = compensated signal of channel i ($i = x, y, z$)

$Norm_i$ = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

$ConvF$ = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

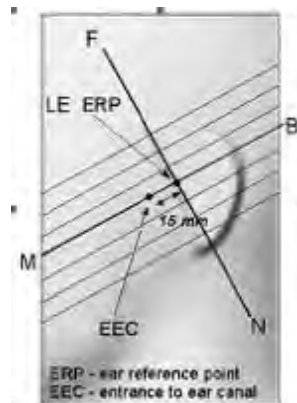


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

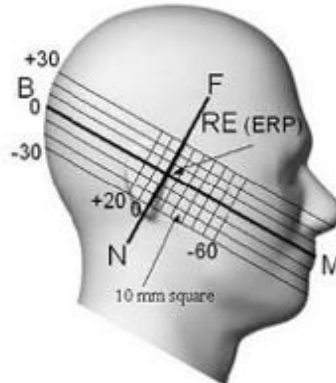
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)

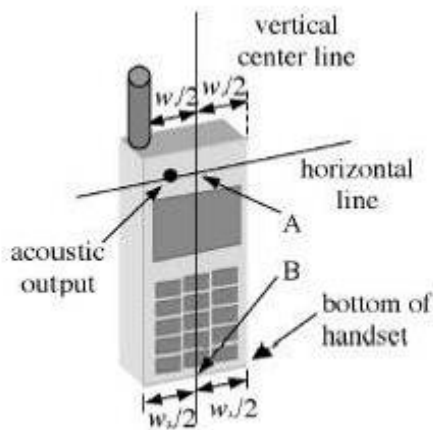


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

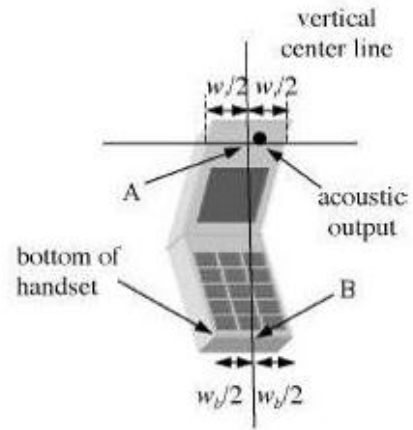


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-
“fixed case”



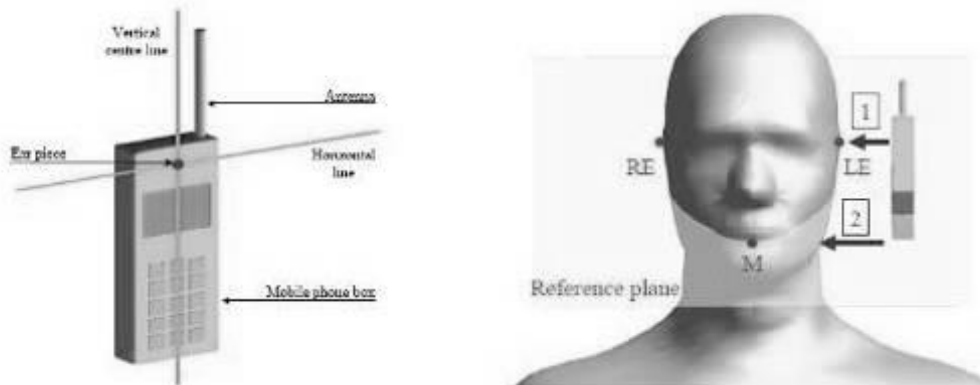
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

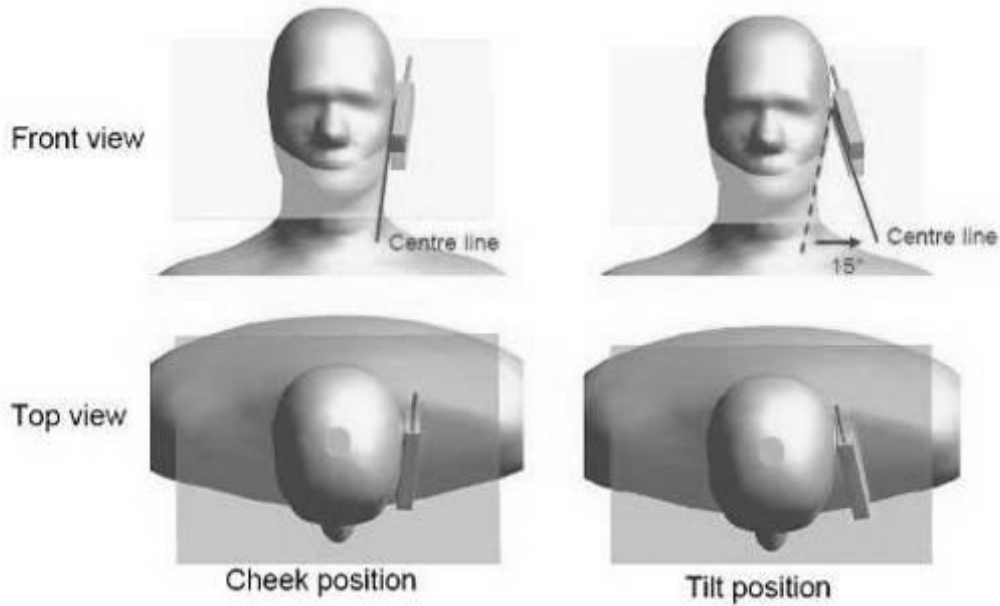
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

5.1.4 Definition of the “tilted” position

- a) Position the device in the “cheek” position described above.
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side

5.2 The Body Test Position

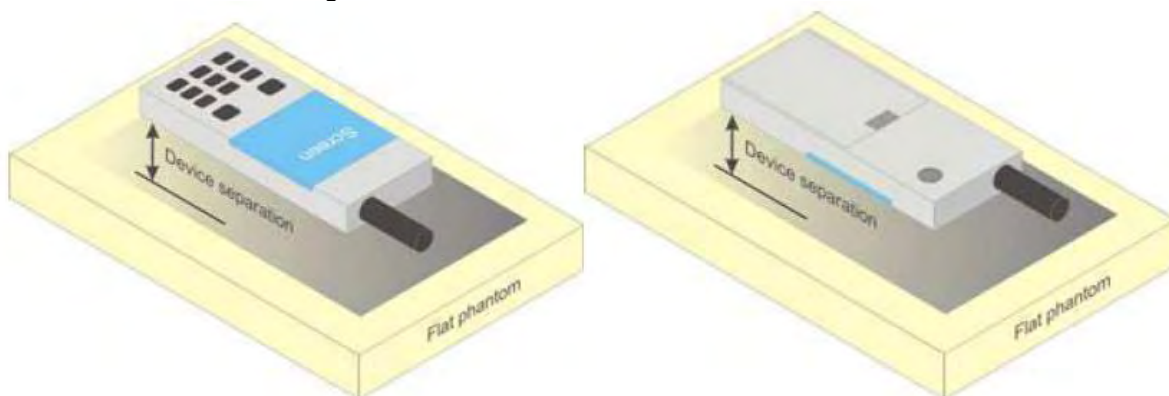
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed-use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

WCDMA Band II (Ant13):

Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	9400/1880	1:1	0.261	0.131	0.07	19.08	24.00	3.105	0.810	Yes
Back side	RMC	9400/1880	1:1	0.332	0.179	0.15	19.08	24.00	3.105	1.031	Yes
Left side	RMC	9400/1880	1:1	0.067	0.036	-0.03	19.08	24.00	3.105	0.208	Yes
Top side	RMC	9400/1880	1:1	0.438	0.222	0.07	19.08	24.00	3.105	1.360	No

WCDMA Band IV (Ant13):

Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	1412/1732.4	1:1	0.377	0.194	0.14	19.59	24.50	3.097	1.168	Yes
Back side	RMC	1412/1732.4	1:1	0.392	0.222	-0.01	19.59	24.50	3.097	1.214	No
Left side	RMC	1412/1732.4	1:1	0.060	0.035	0.07	19.59	24.50	3.097	0.186	Yes
Top side	RMC	1412/1732.4	1:1	0.469	0.238	0.13	19.59	24.50	3.097	1.453	No



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LTE Band 2 (Ant13):

Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1 0	18700/1860	1:1	0.215	0.115	0.05	17.71	24.00	4.256	0.915	Yes
Back side	20	QPSK 1 0	18700/1860	1:1	0.313	0.169	0.08	17.71	24.00	4.256	1.332	No
Left side	20	QPSK 1 0	18700/1860	1:1	0.054	0.032	0.02	17.71	24.00	4.256	0.230	Yes
Top side	20	QPSK 1 0	18700/1860	1:1	0.332	0.159	-0.07	17.71	24.00	4.256	1.413	No
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50 0	18700/1860	1:1	0.218	0.116	0.02	17.70	23.00	3.388	0.739	Yes
Back side	20	QPSK 50 0	18700/1860	1:1	0.312	0.168	0.06	17.70	23.00	3.388	1.057	Yes
Left side	20	QPSK 50 0	18700/1860	1:1	0.053	0.032	0.02	17.70	23.00	3.388	0.180	Yes
Top side	20	QPSK 50 0	18700/1860	1:1	0.347	0.165	0.03	17.70	23.00	3.388	1.176	Yes

LTE Band 7(Ant13):

Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	21350/2560	1:1	0.114	0.054	-0.01	14.68	19.50	3.034	0.346	Yes
Back side	20	QPSK 1_50	21350/2560	1:1	0.439	0.180	0.07	14.68	19.50	3.034	1.332	No
Left side	20	QPSK 1_50	21350/2560	1:1	0.055	0.029	-0.13	14.68	19.50	3.034	0.167	Yes
Top side	20	QPSK 1_50	21350/2560	1:1	0.462	0.197	0.09	14.68	19.50	3.034	1.402	No
Top side	20	QPSK PCC 1_0	21350/2560	1:1	0.438	0.182	0.05	15.32	19.50	2.618	1.147	Yes
		QPSK SCC 0_0	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	21350/2560	1:1	0.117	0.055	0.18	14.77	19.50	2.972	0.348	Yes
Back side	20	QPSK 50_25	21350/2560	1:1	0.426	0.181	-0.03	14.77	19.50	2.972	1.266	No
Left side	20	QPSK 50_25	21350/2560	1:1	0.047	0.025	0.09	14.77	19.50	2.972	0.140	Yes
Top side	20	QPSK 50_25	21350/2560	1:1	0.464	0.199	0.06	14.77	19.50	2.972	1.379	No



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LTE Band 38(Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	37850/2580	1:1.58	0.127	0.056	0.03	19.36	25.00	3.664	0.465	Yes
Back side	20	QPSK 1_0	37850/2580	1:1.58	0.254	0.117	0.06	19.36	25.00	3.664	0.931	Yes
Left side	20	QPSK 1_0	37850/2580	1:1.58	0.378	0.161	-0.01	19.36	25.00	3.664	1.385	No
Top side	20	QPSK 1_0	37850/2580	1:1.58	0.033	0.011	-0.02	19.36	25.00	3.664	0.121	Yes
Left side	20	QPSK PCC 1_0	37850/2580	1:1.58	0.382	0.162	-0.09	19.93	25.00	3.214	1.228	No
		QPSK SCC 0_0	38048/2599.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	37850/2580	1:1.58	0.132	0.061	0.17	19.36	24.00	2.911	0.384	Yes
Back side	20	QPSK 50_0	37850/2580	1:1.58	0.286	0.123	-0.16	19.36	24.00	2.911	0.832	Yes
Left side	20	QPSK 50_0	37850/2580	1:1.58	0.384	0.164	-0.13	19.36	24.00	2.911	1.118	Yes
Top side	20	QPSK 50_0	37850/2580	1:1.58	0.004	0.002	-0.03	19.36	24.00	2.911	0.012	Yes

LTE Band 66(Ant13):

Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132322/1745	1:1	0.326	0.187	0.03	19.55	24.50	3.126	1.019	Yes
Back side	20	QPSK 1_99	132322/1745	1:1	0.398	0.223	0.15	19.55	24.50	3.126	1.244	No
Left side	20	QPSK 1_99	132322/1745	1:1	0.073	0.042	-0.01	19.55	24.50	3.126	0.227	Yes
Top side	20	QPSK 1_99	132322/1745	1:1	0.557	0.278	-0.06	19.55	24.50	3.126	1.741	No
Top side	20	QPSK PCC 1_0	132322/1745	1:1	0.571	0.286	-0.08	20.12	24.50	2.742	1.565	No
		QPSK SCC 0_0	132124/1725.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132572/1770	1:1	0.348	0.199	0.02	19.62	23.50	2.443	0.850	Yes
Back side	20	QPSK 50_50	132572/1770	1:1	0.464	0.258	0.12	19.62	23.50	2.443	1.134	Yes
Left side	20	QPSK 50_50	132572/1770	1:1	0.079	0.046	0.13	19.62	23.50	2.443	0.193	Yes
Top side	20	QPSK 50_50	132572/1770	1:1	0.609	0.304	0.19	19.62	23.50	2.443	1.488	No
Top side	20	QPSK 50_50	132072/1720	1:1	0.497	0.240	0.07	19.60	23.50	2.455	1.220	No
Top side	20	QPSK 50_50	132322/1745	1:1	0.496	0.242	0.02	19.55	23.50	2.483	1.232	No
Hotspot Test data (Separate 10mm 100%RB) DSI 10												
Top side	20	QPSK 100_0	132072/1720	1:1	0.577	0.288	0.04	19.57	23.50	2.472	1.426	No



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LTE Band 66(Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132572/1770	1:1	0.209	0.104	0.19	18.48	24.00	3.565	0.745	Yes
Back side	20	QPSK 1_99	132572/1770	1:1	0.365	0.170	-0.18	18.48	24.00	3.565	1.301	No
Left side	20	QPSK 1_99	132572/1770	1:1	0.425	0.203	-0.08	18.48	24.00	3.565	1.515	No
Top side	20	QPSK 1_99	132572/1770	1:1	0.004	0.001	0.06	18.48	24.00	3.565	0.014	Yes
Left side	20	QPSK PCC 1_0	132572/1770	1:1	0.438	0.212	0.01	19.01	24.00	3.155	1.382	No
		QPSK SCC 0_0	132374/1750.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132572/1770	1:1	0.219	0.111	0.03	18.55	23.00	2.786	0.610	Yes
Back side	20	QPSK 50_50	132572/1770	1:1	0.368	0.173	-0.02	18.55	23.00	2.786	1.025	Yes
Left side	20	QPSK 50_50	132572/1770	1:1	0.455	0.222	0.16	18.55	23.00	2.786	1.268	No
Top side	20	QPSK 50_50	132572/1770	1:1	0.039	0.011	-0.12	18.55	23.00	2.786	0.109	Yes

N2(Ant13):

Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_1	372000/1860	100%	0.342	0.179	0.01	19.14	24.00	3.062	1.047	Yes
Back side	20	QPSK 1_1	372000/1860	100%	0.404	0.209	-0.19	19.14	24.00	3.062	1.237	No
Left side	20	QPSK 1_1	372000/1860	100%	0.071	0.041	0.17	19.14	24.00	3.062	0.217	Yes
Top side	20	QPSK 1_1	372000/1860	100%	0.435	0.226	0.07	19.14	24.00	3.062	1.332	No
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	372000/1860	100%	0.301	0.159	-0.07	19.01	24.00	3.155	0.950	Yes
Back side	20	QPSK 50_28	372000/1860	100%	0.388	0.195	0.18	19.01	24.00	3.155	1.224	No
Left side	20	QPSK 50_28	372000/1860	100%	0.069	0.039	-0.05	19.01	24.00	3.155	0.218	Yes
Top side	20	QPSK 50_28	372000/1860	100%	0.411	0.215	-0.11	19.01	24.00	3.155	1.297	No



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N7(Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	507000/2535	100%	0.083	0.041	0.03	16.95	24.00	5.070	0.421	Yes
Back side	40	QPSK 1_1	507000/2535	100%	0.179	0.082	0.05	16.95	24.00	5.070	0.908	Yes
Left side	40	QPSK 1_1	507000/2535	100%	0.184	0.081	-0.11	16.95	24.00	5.070	0.933	Yes
Top side	40	QPSK 1_1	507000/2535	100%	0.046	0.022	-0.05	16.95	24.00	5.070	0.233	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	507000/2535	100%	0.093	0.044	0.16	16.88	24.00	5.152	0.479	Yes
Back side	40	QPSK 108_54	507000/2535	100%	0.200	0.088	0.03	16.88	24.00	5.152	1.030	Yes
Left side	40	QPSK 108_54	507000/2535	100%	0.271	0.112	0.07	16.88	24.00	5.152	1.396	No
Top side	40	QPSK 108_54	507000/2535	100%	0.049	0.025	0.02	16.88	24.00	5.152	0.252	Yes

N38(Ant13):

Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_104	520000/2600	100%	0.083	0.041	0.12	14.78	19.50	2.965	0.246	Yes
Back side	40	QPSK 1_104	520000/2600	100%	0.390	0.158	-0.05	14.78	19.50	2.965	1.156	Yes
Left side	40	QPSK 1_104	520000/2600	100%	0.049	0.025	-0.18	14.78	19.50	2.965	0.145	Yes
Top side	40	QPSK 1_104	520000/2600	100%	0.287	0.118	0.17	14.78	19.50	2.965	0.851	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 50_28	520000/2600	100%	0.097	0.045	0.16	14.58	19.50	3.105	0.301	Yes
Back side	40	QPSK 50_28	520000/2600	100%	0.395	0.169	0.02	14.58	19.50	3.105	1.226	No
Left side	40	QPSK 50_28	520000/2600	100%	0.047	0.025	-0.15	14.58	19.50	3.105	0.146	Yes
Top side	40	QPSK 50_28	520000/2600	100%	0.319	0.140	-0.14	14.58	19.50	3.105	0.990	Yes



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N38(Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_104	520000/2600	100%	0.122	0.044	0.02	16.98	25.00	6.339	0.773	Yes
Back side	40	QPSK 1_104	520000/2600	100%	0.261	0.119	0.04	16.98	25.00	6.339	1.654	No
Left side	40	QPSK 1_104	520000/2600	100%	0.382	0.163	-0.18	16.98	25.00	6.339	2.421	No
Top side	40	QPSK 1_104	520000/2600	100%	0.002	0.001	0.00	16.98	25.00	6.339	0.013	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 50_28	518000/2590	100%	0.125	0.057	-0.03	16.76	25.00	6.668	0.834	Yes
Back side	40	QPSK 50_28	518000/2590	100%	0.281	0.117	-0.09	16.76	25.00	6.668	1.874	No
Left side	40	QPSK 50_28	518000/2590	100%	0.362	0.161	0.01	16.76	25.00	6.668	2.414	No
Top side	40	QPSK 50_28	518000/2590	100%	0.002	0.001	-0.04	16.76	25.00	6.668	0.013	Yes

N41(Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	509202/2546.01	100%	0.101	0.047	-0.17	16.48	24.50	6.339	0.640	Yes
Back side	100	QPSK 1_271	509202/2546.01	100%	0.205	0.095	0.00	16.48	24.50	6.339	1.299	No
Left side	100	QPSK 1_271	509202/2546.01	100%	0.316	0.136	-0.10	16.48	24.50	6.339	2.003	No
Top side	100	QPSK 1_271	509202/2546.01	100%	0.036	0.021	-0.07	16.48	24.50	6.339	0.228	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.083	0.041	-0.14	16.38	24.50	6.486	0.538	Yes
Back side	100	QPSK 135_69	509202/2546.01	100%	0.172	0.079	0.18	16.38	24.50	6.486	1.116	Yes
Left side	100	QPSK 135_69	509202/2546.01	100%	0.250	0.106	-0.10	16.38	24.50	6.486	1.622	No
Top side	100	QPSK 135_69	509202/2546.01	100%	0.028	0.013	-0.06	16.38	24.50	6.486	0.182	Yes



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N66 (Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	352000/1760	100%	0.253	0.129	0.13	19.98	24.50	2.831	0.716	Yes
Back side	40	QPSK 1_1	352000/1760	100%	0.392	0.196	0.08	19.98	24.50	2.831	1.110	Yes
Left side	40	QPSK 1_1	352000/1760	100%	0.432	0.215	0.09	19.98	24.50	2.831	1.223	No
Top side	40	QPSK 1_1	352000/1760	100%	0.049	0.030	0.09	19.98	24.50	2.831	0.139	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	352000/1760	100%	0.256	0.129	-0.08	19.90	24.50	2.884	0.738	Yes
Back side	40	QPSK 108_54	352000/1760	100%	0.393	0.196	0.08	19.90	24.50	2.884	1.133	Yes
Left side	40	QPSK 108_54	352000/1760	100%	0.475	0.234	0.07	19.90	24.50	2.884	1.370	No
Top side	40	QPSK 108_54	352000/1760	100%	0.056	0.035	-0.06	19.90	24.50	2.884	0.162	Yes

N77 (3450-3550) (Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	633334/3500	100%	0.177	0.078	-0.19	17.85	24.50	4.624	0.818	Yes
Back side	100	QPSK 1_1	633334/3500	100%	0.289	0.133	0.18	17.85	24.50	4.624	1.336	No
Left side	100	QPSK 1_1	633334/3500	100%	0.490	0.208	0.19	17.85	24.50	4.624	2.266	No
Top side	100	QPSK 1_1	633334/3500	100%	0.053	0.020	0.01	17.85	24.50	4.624	0.245	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.190	0.085	-0.02	17.89	24.50	4.581	0.870	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.317	0.147	0.16	17.89	24.50	4.581	1.452	No
Left side	100	QPSK 135_69	633334/3500	100%	0.563	0.232	0.09	17.89	24.50	4.581	2.579	No
Top side	100	QPSK 135_69	633334/3500	100%	0.041	0.017	0.19	17.89	24.50	4.581	0.188	Yes



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N77 (3450-3550) (Ant12):

Ant 12 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	633334/3500	100%	0.239	0.110	-0.03	17.89	23.50	3.639	0.870	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.372	0.164	0.10	17.89	23.50	3.639	1.354	No
Left side	100	QPSK 1_271	633334/3500	100%	0.231	0.102	-0.19	17.89	23.50	3.639	0.841	Yes
Top side	100	QPSK 1_271	633334/3500	100%	0.146	0.069	-0.04	17.89	23.50	3.639	0.531	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.214	0.099	-0.08	17.76	23.50	3.750	0.802	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.370	0.164	0.01	17.76	23.50	3.750	1.387	No
Left side	100	QPSK 135_69	633334/3500	100%	0.234	0.102	-0.15	17.76	23.50	3.750	0.877	Yes
Top side	100	QPSK 135_69	633334/3500	100%	0.162	0.076	0.15	17.76	23.50	3.750	0.607	Yes

N77 (3700-3980) (Ant11):

Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	657200/3858	100%	0.161	0.068	0.09	18.27	24.50	4.198	0.676	Yes
Back side	100	QPSK 1_137	657200/3858	100%	0.227	0.098	-0.09	18.27	24.50	4.198	0.953	Yes
Left side	100	QPSK 1_137	657200/3858	100%	0.311	0.120	-0.04	18.27	24.50	4.198	1.305	No
Top side	100	QPSK 1_137	657200/3858	100%	0.050	0.014	-0.06	18.27	24.50	4.198	0.210	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	657200/3858	100%	0.157	0.066	0.09	18.11	24.50	4.355	0.684	Yes
Back side	100	QPSK 135_69	657200/3858	100%	0.220	0.095	0.06	18.11	24.50	4.355	0.958	Yes
Left side	100	QPSK 135_69	657200/3858	100%	0.298	0.115	0.17	18.11	24.50	4.355	1.298	No
Top side	100	QPSK 135_69	657200/3858	100%	0.060	0.020	-0.07	18.11	24.50	4.355	0.261	Yes



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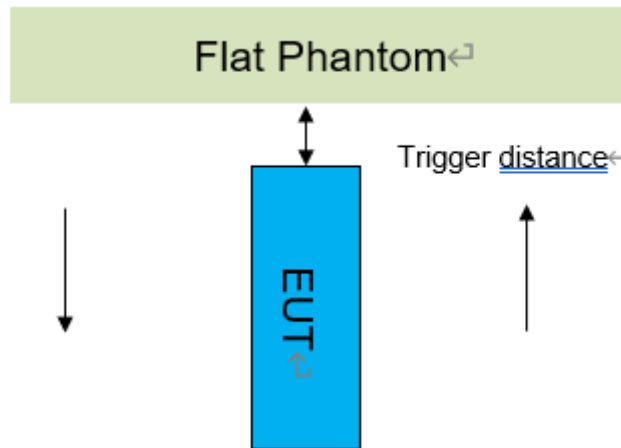
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5.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.

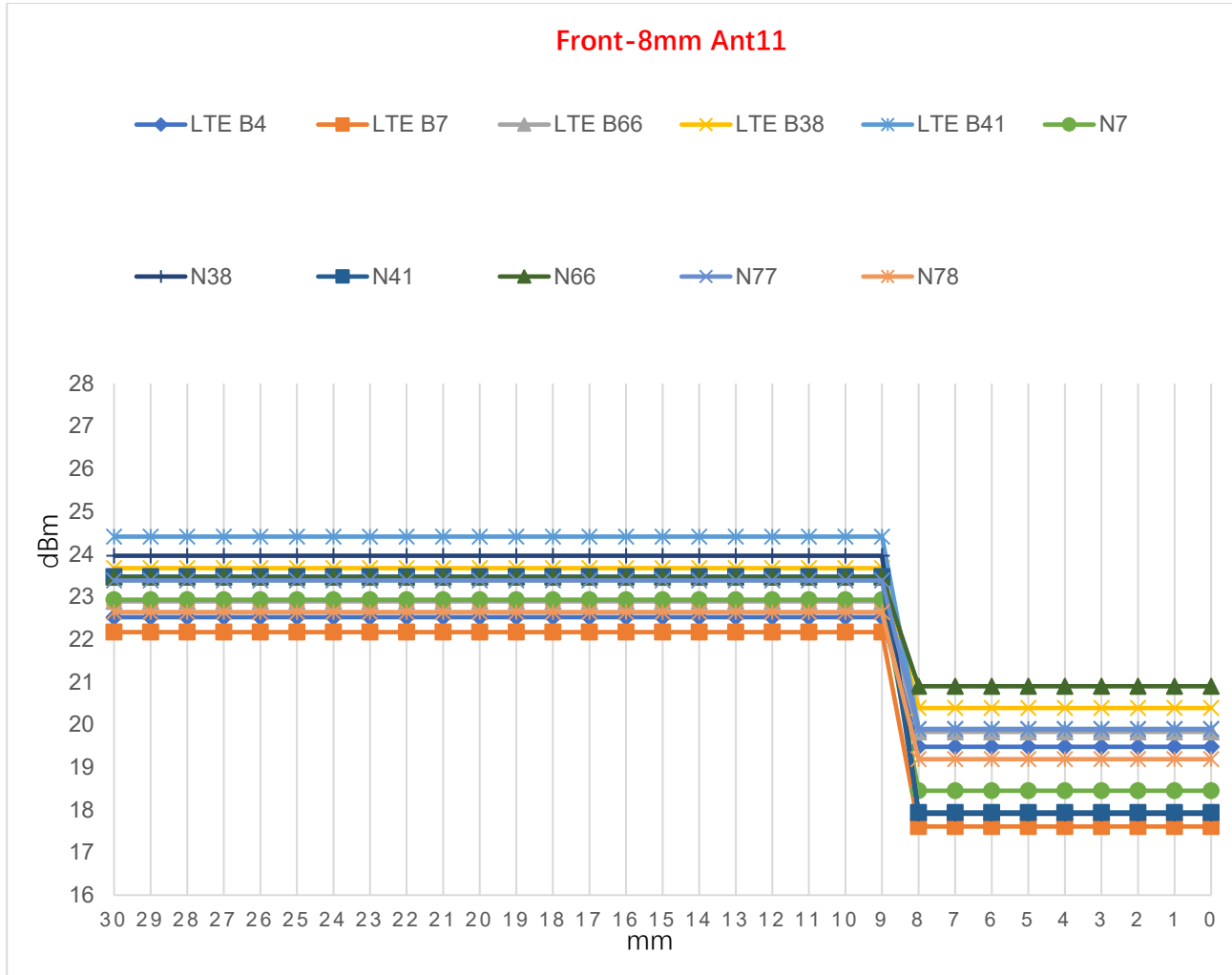


Proximity Sensor Triggering Distance(mm)			
Ant	Ant11	Ant12	Ant13
Band	LTE: B4/7/38/41/66 NR: N7/38/41/66/77/78	NR: N77/78	GSM:1900 WCDMA: B2/4 LTE: B2/4/7/66 NR: N2/7/66
Position	Front Side 8mm	Front Side 8mm	Front Side 9mm
	Back Side 14mm	Back Side 14mm	Back Side 14mm
	Left Side 18mm	Left Side 18mm	Top Side 15mm

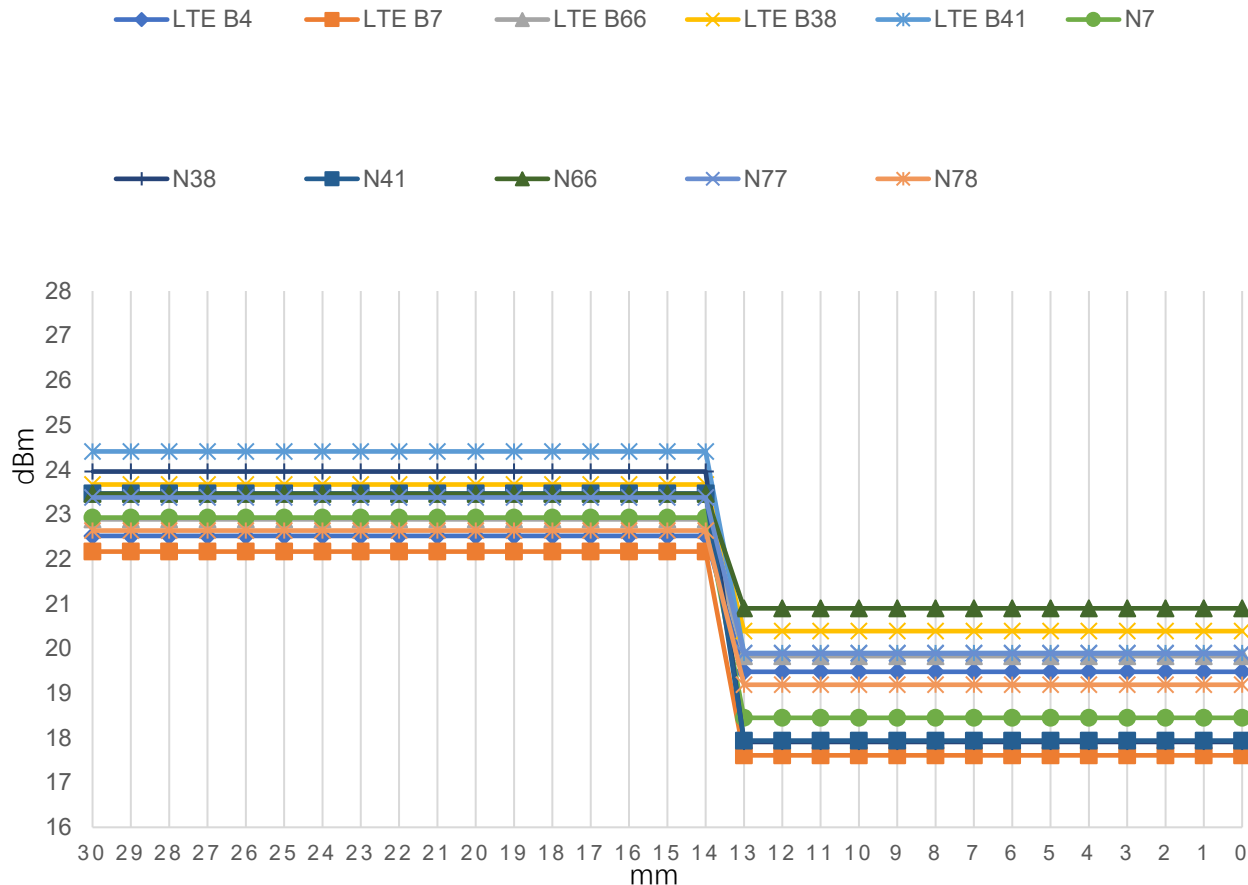
Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

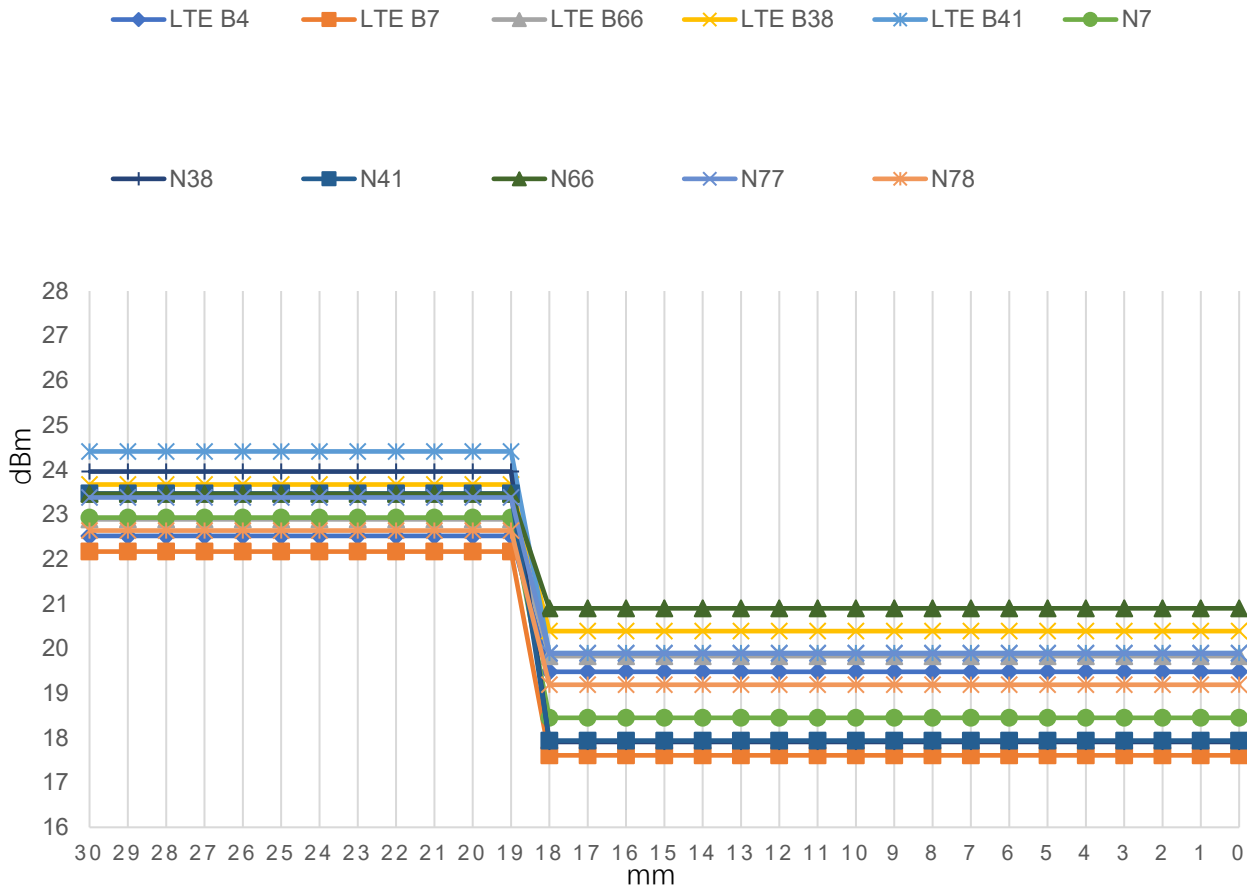
● DUT Moving Toward(Trigger)the Phantom



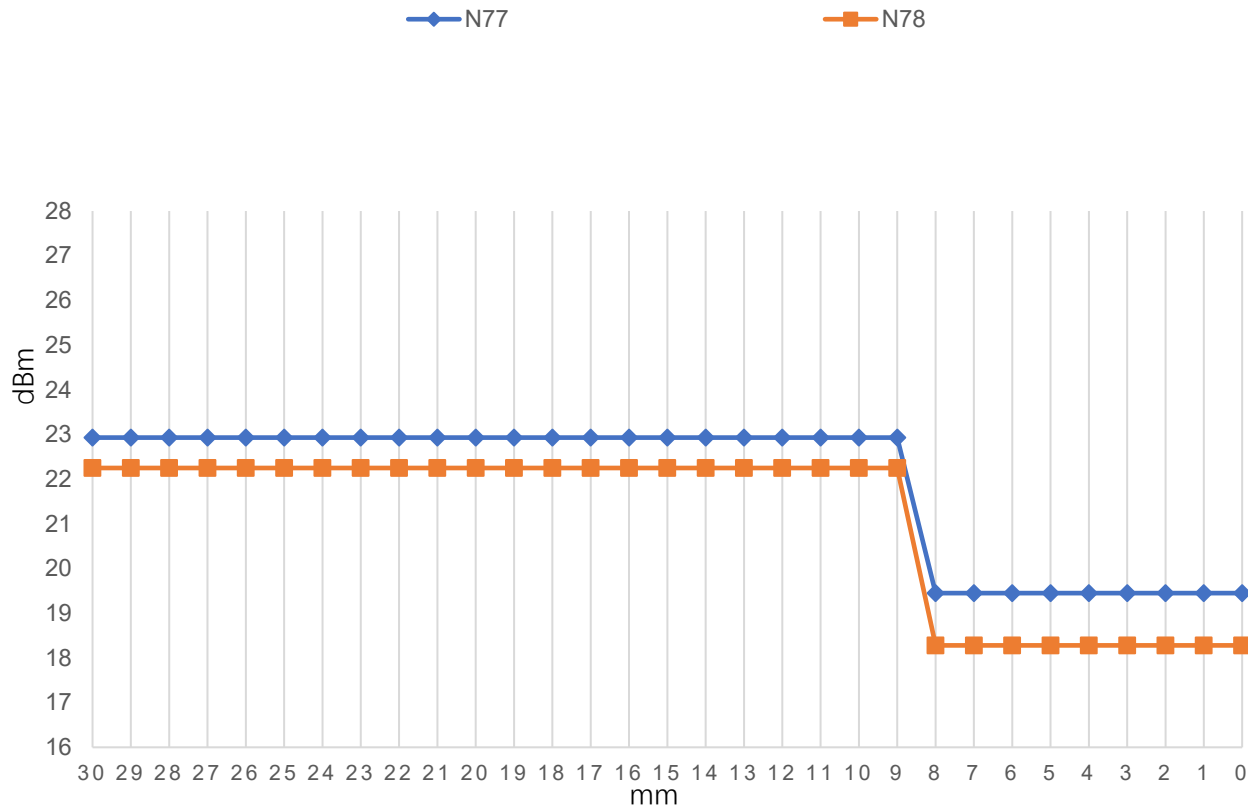
Back-14mm Ant11



Left-18mm Ant11



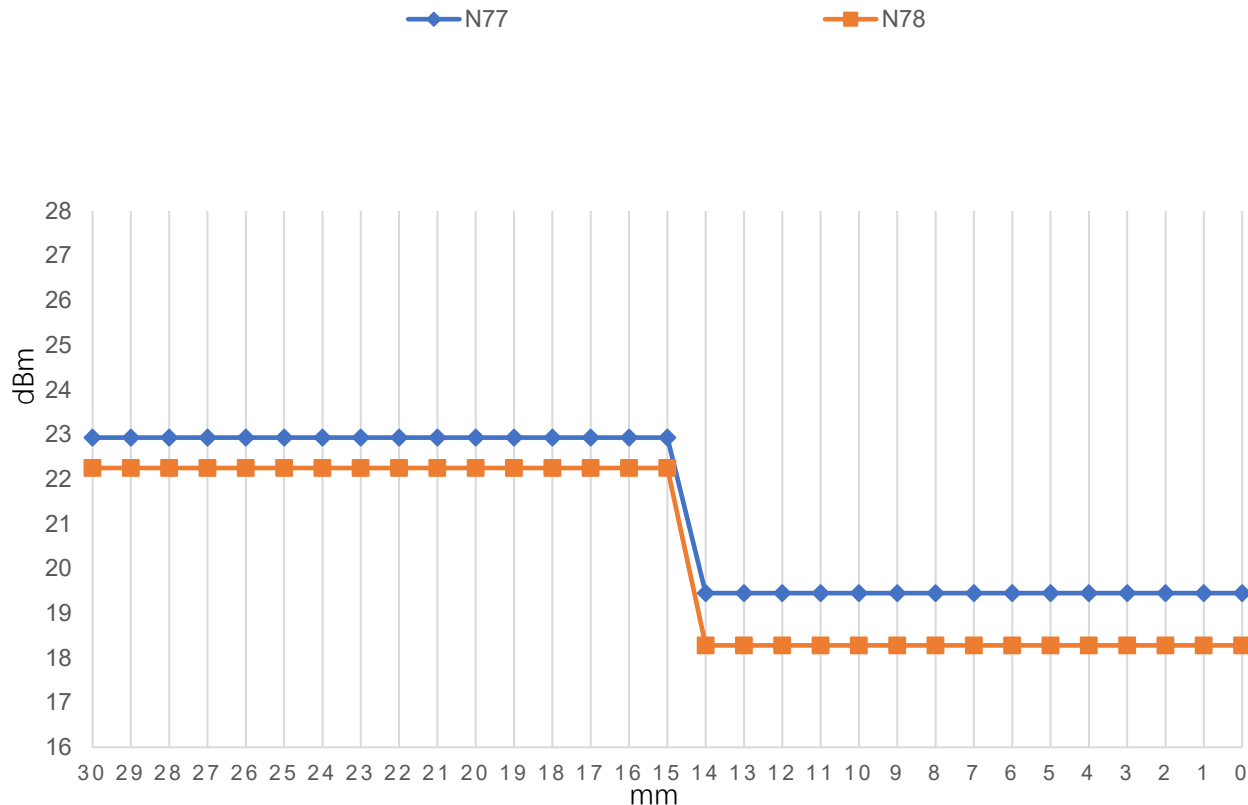
Front-8mm Ant12



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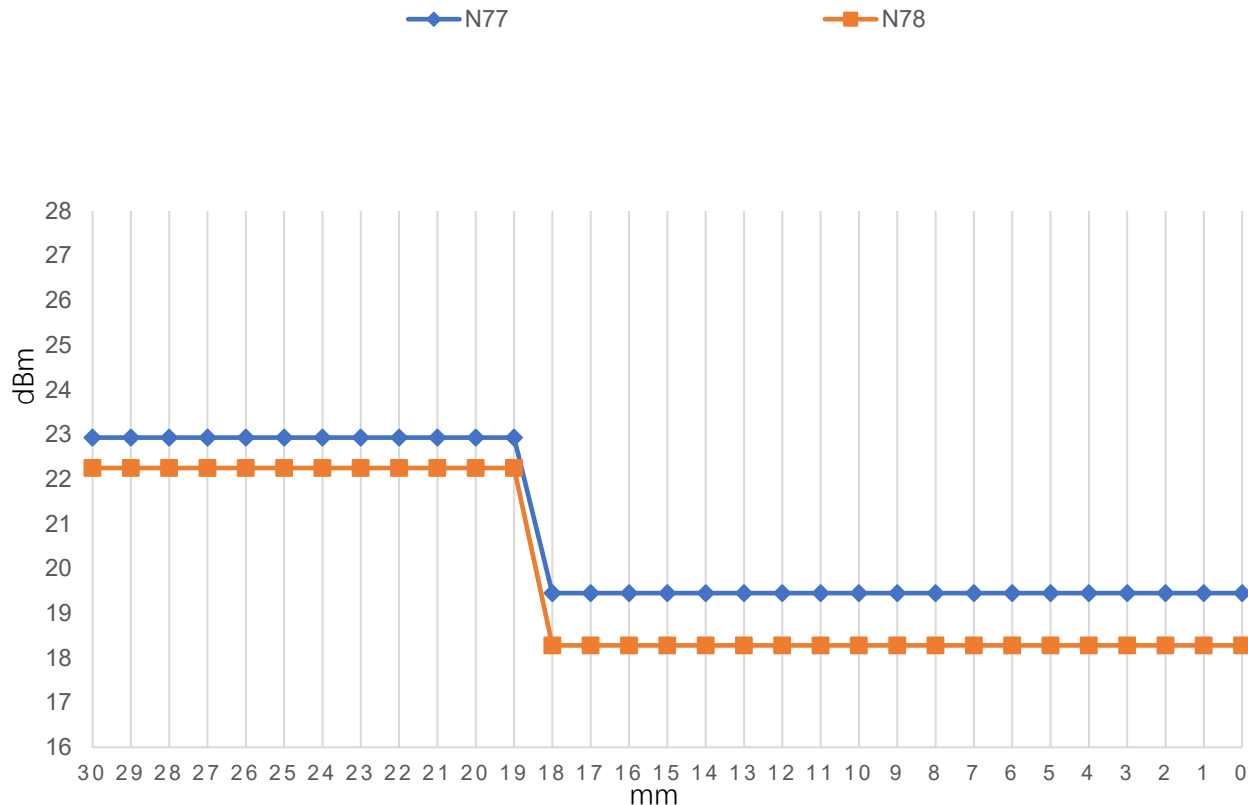
Back-14mm Ant12



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Left-18mm Ant12



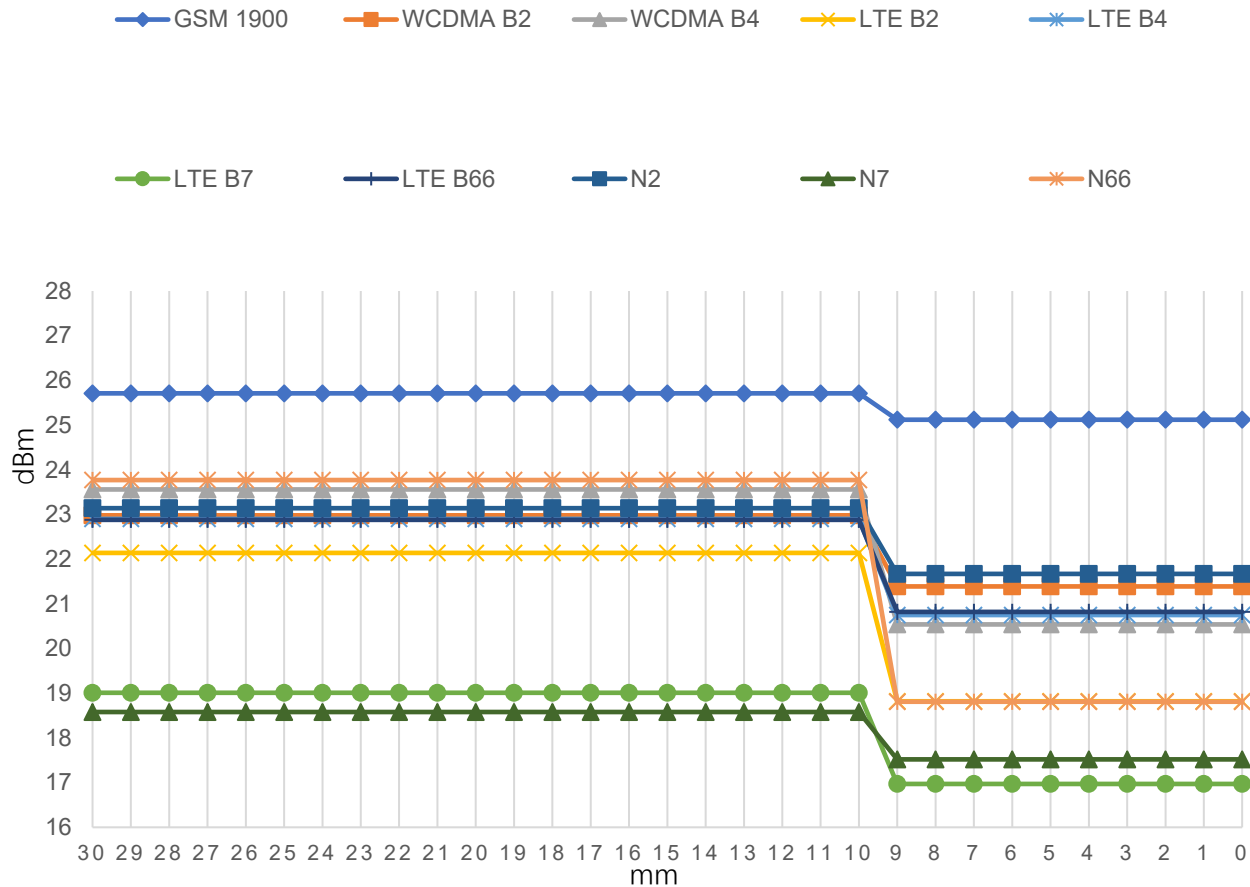
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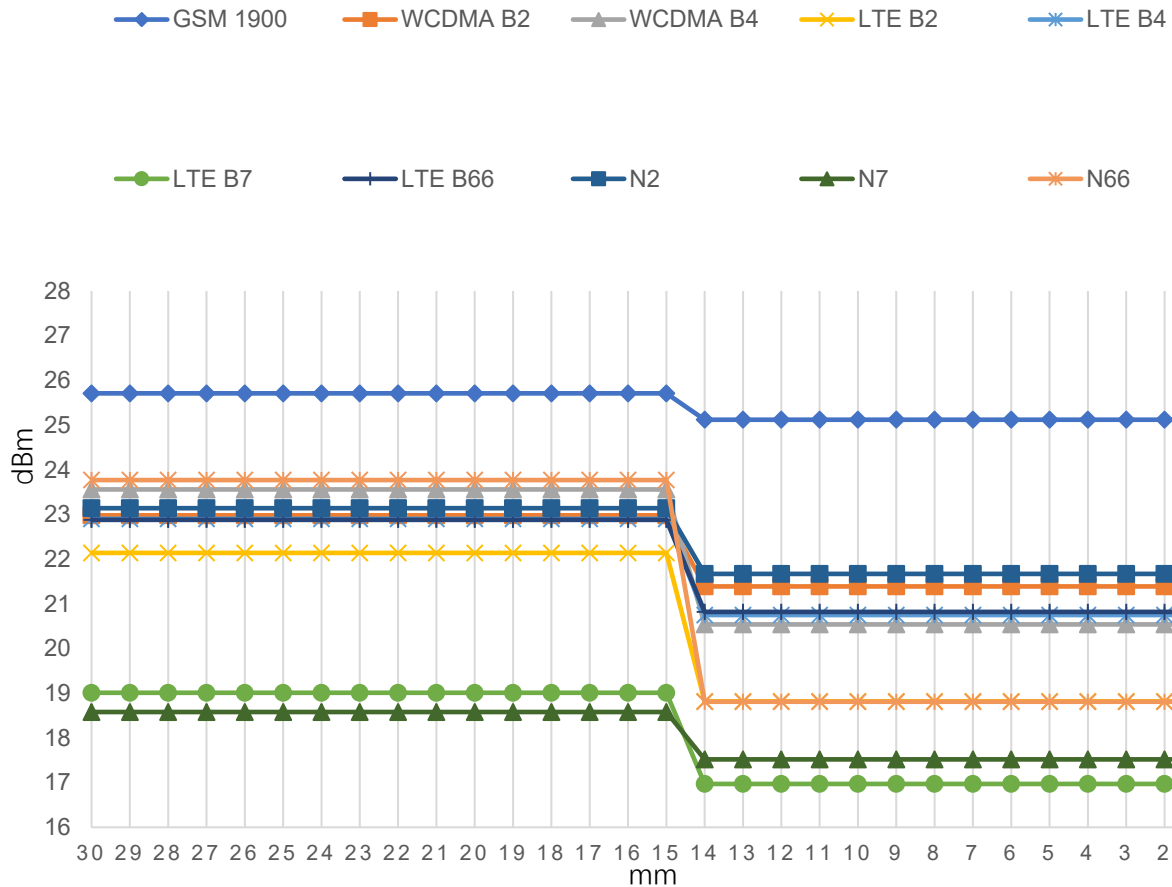
Front-9mm Ant13



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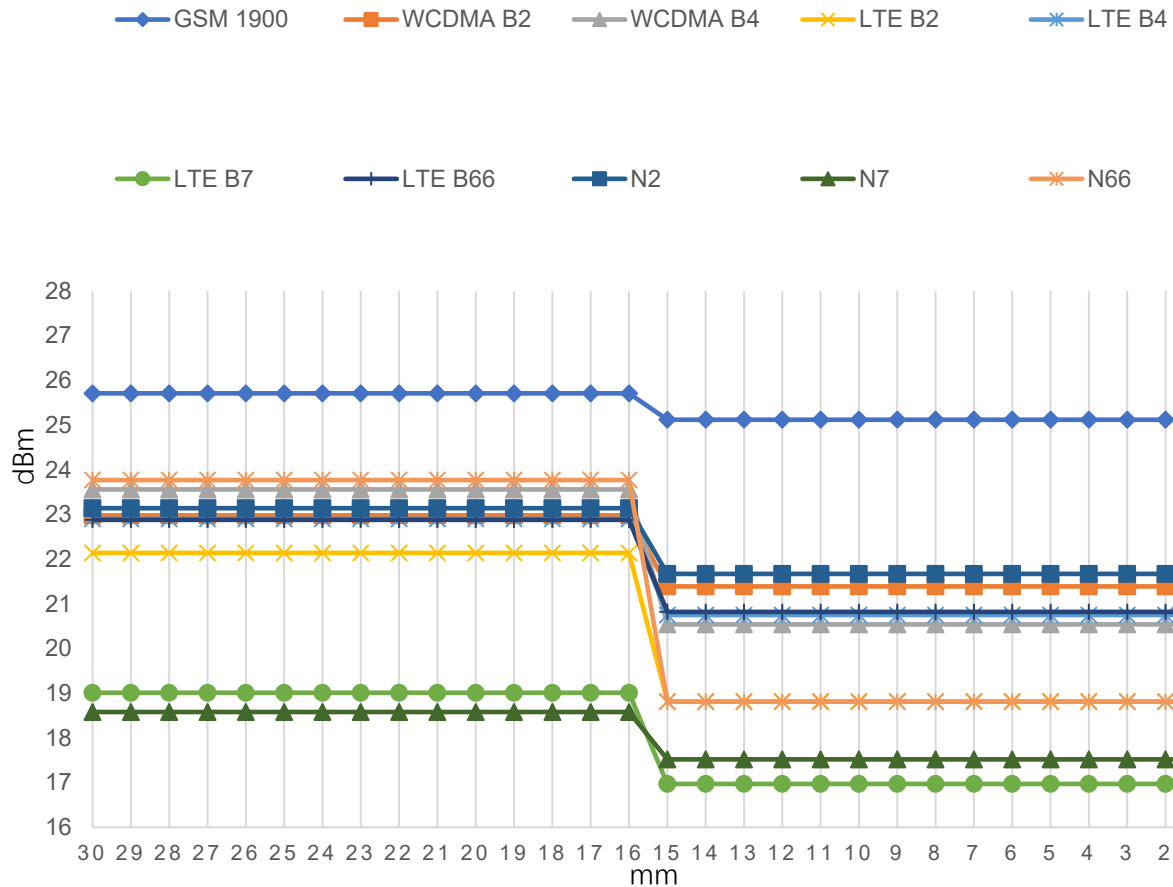
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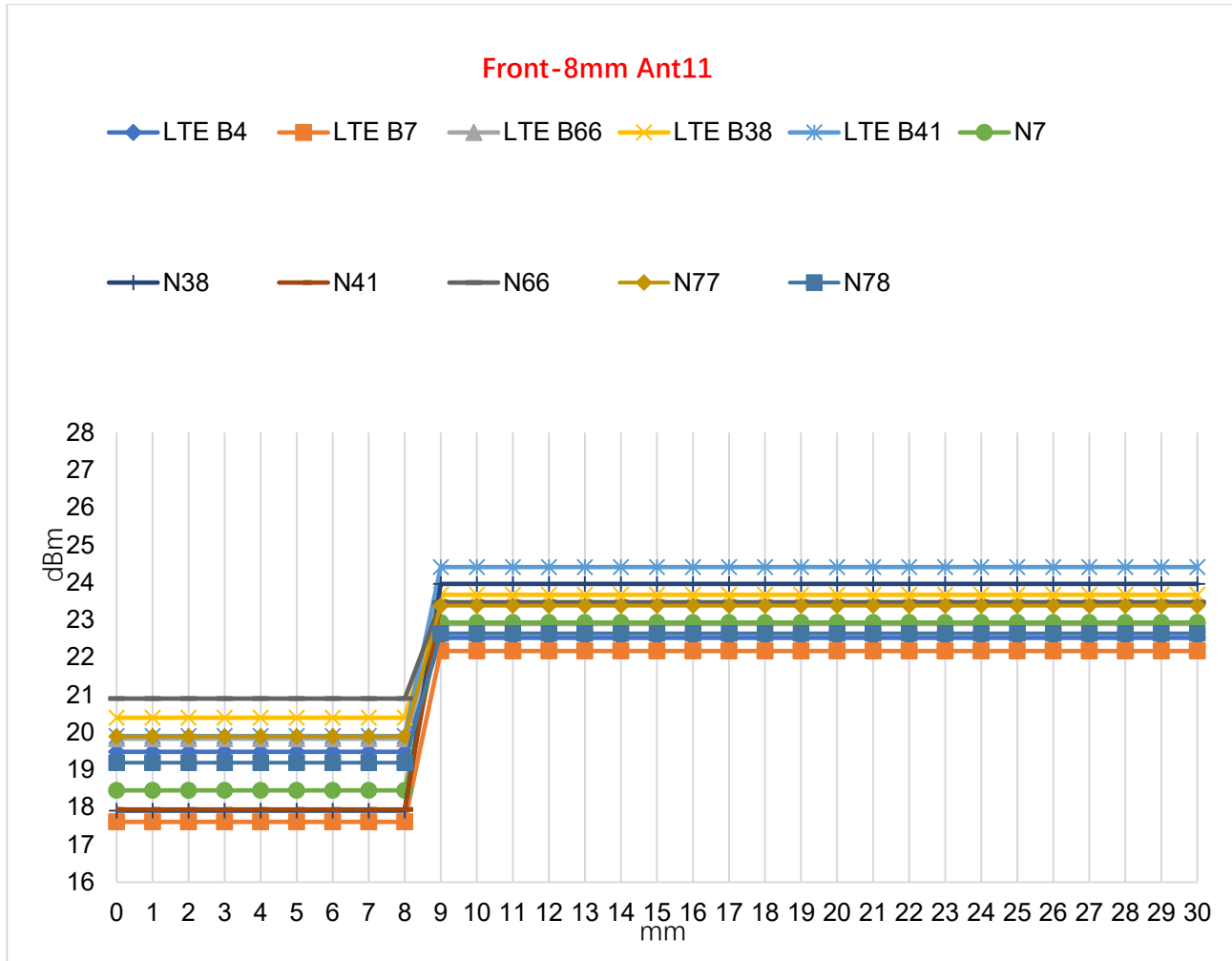
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Top-15mm Ant13



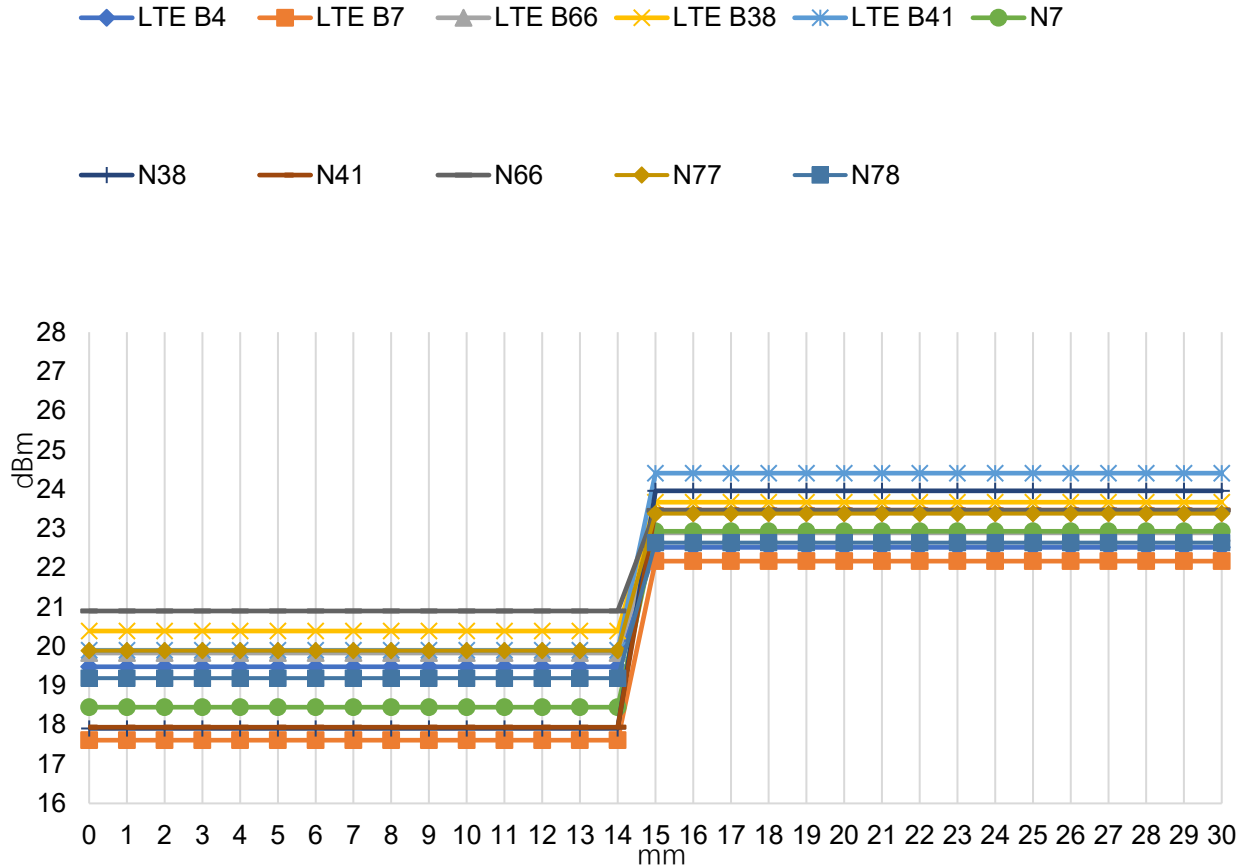
- DUT Moving Away(Release) from the Phantom



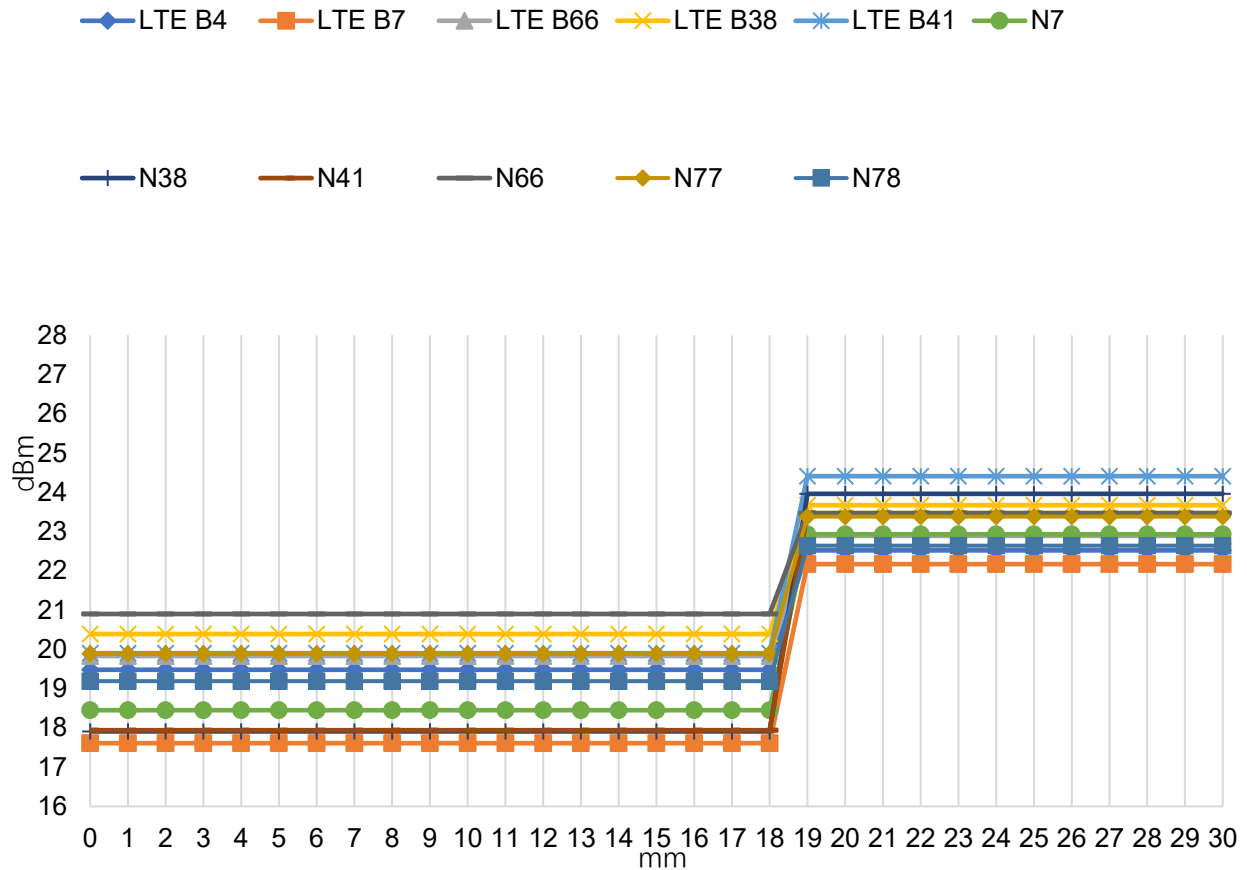
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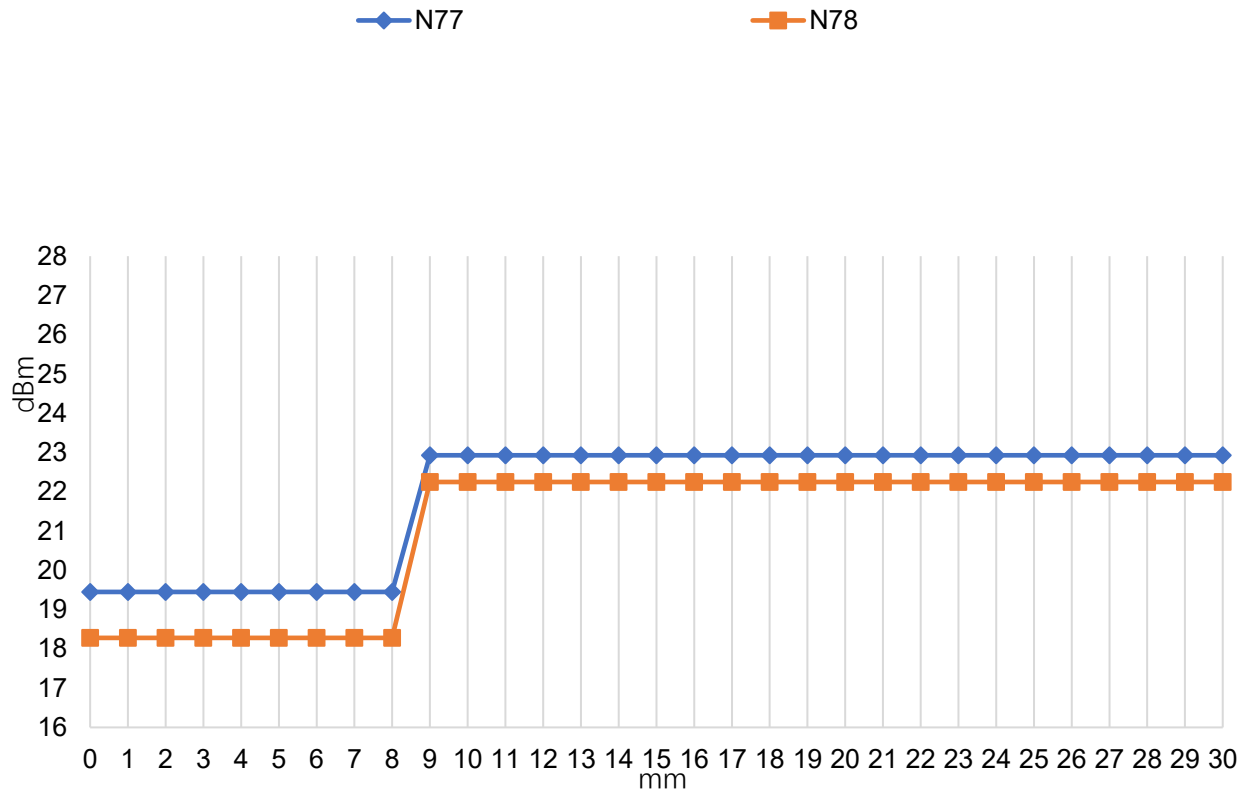
Back-14mm Ant11



Left-18mm Ant11



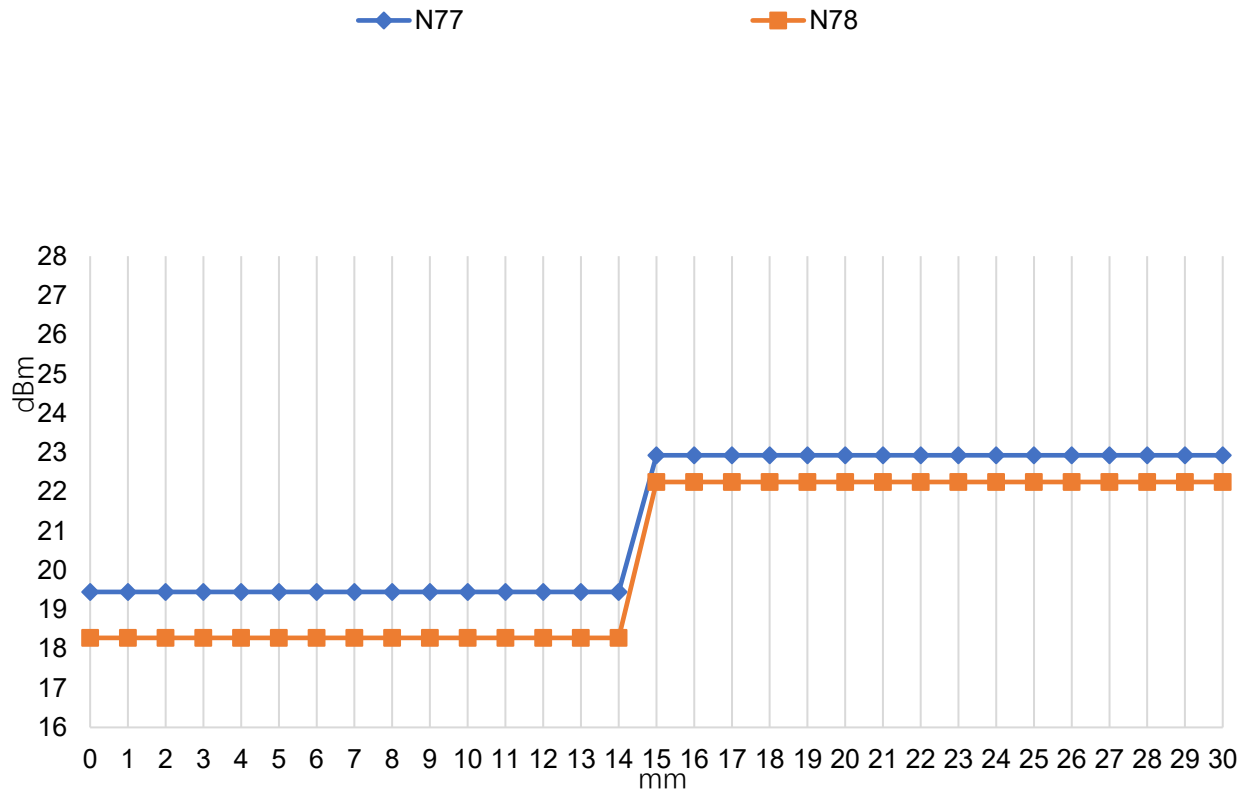
Front-8mm Ant12



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Back-14mm Ant12



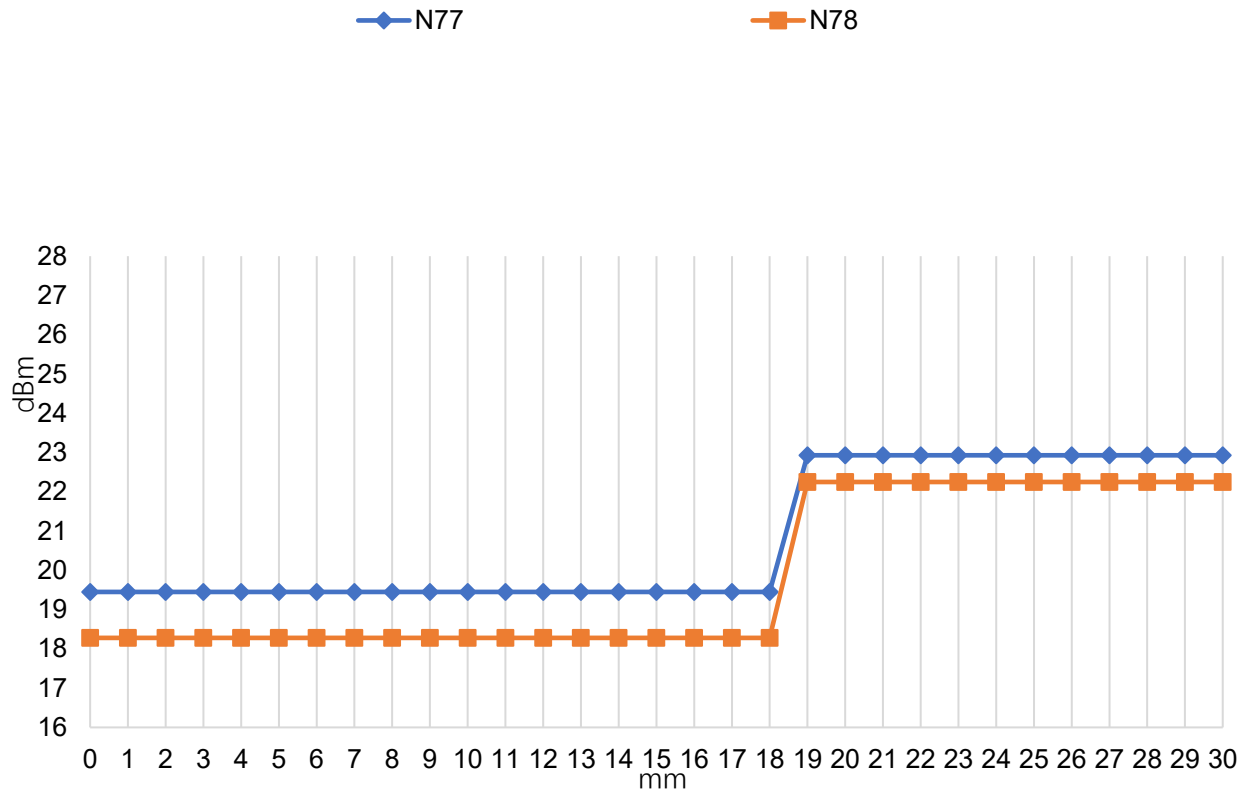
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Left-18mm Ant12



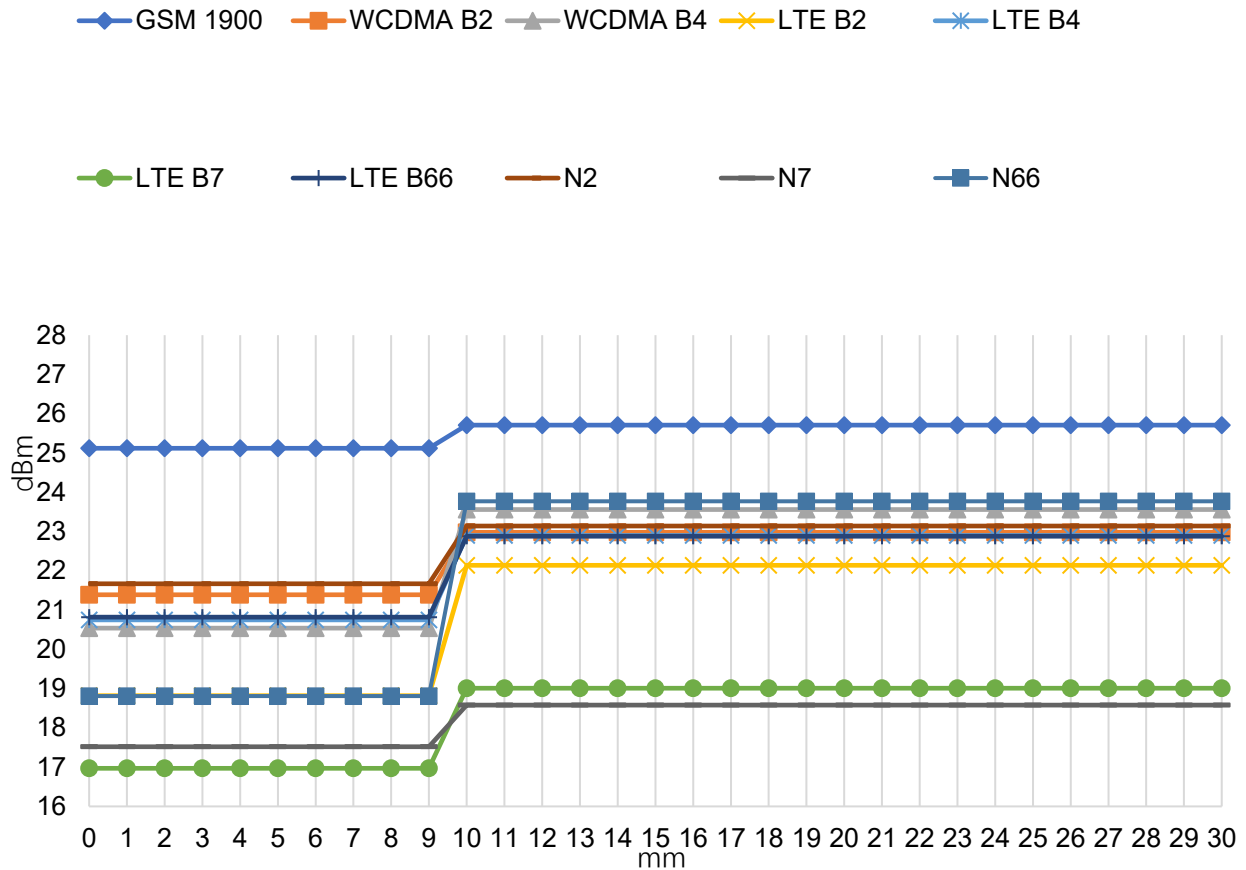
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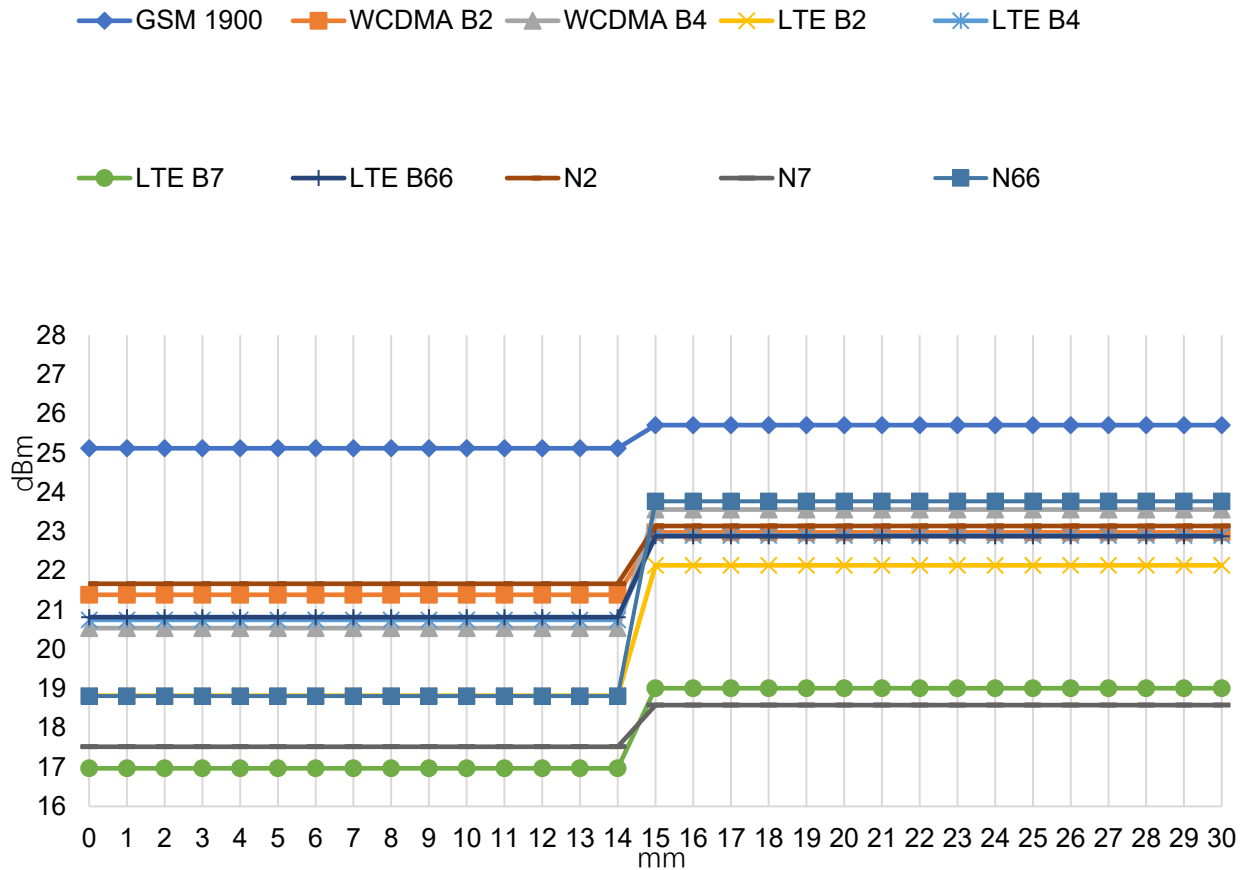
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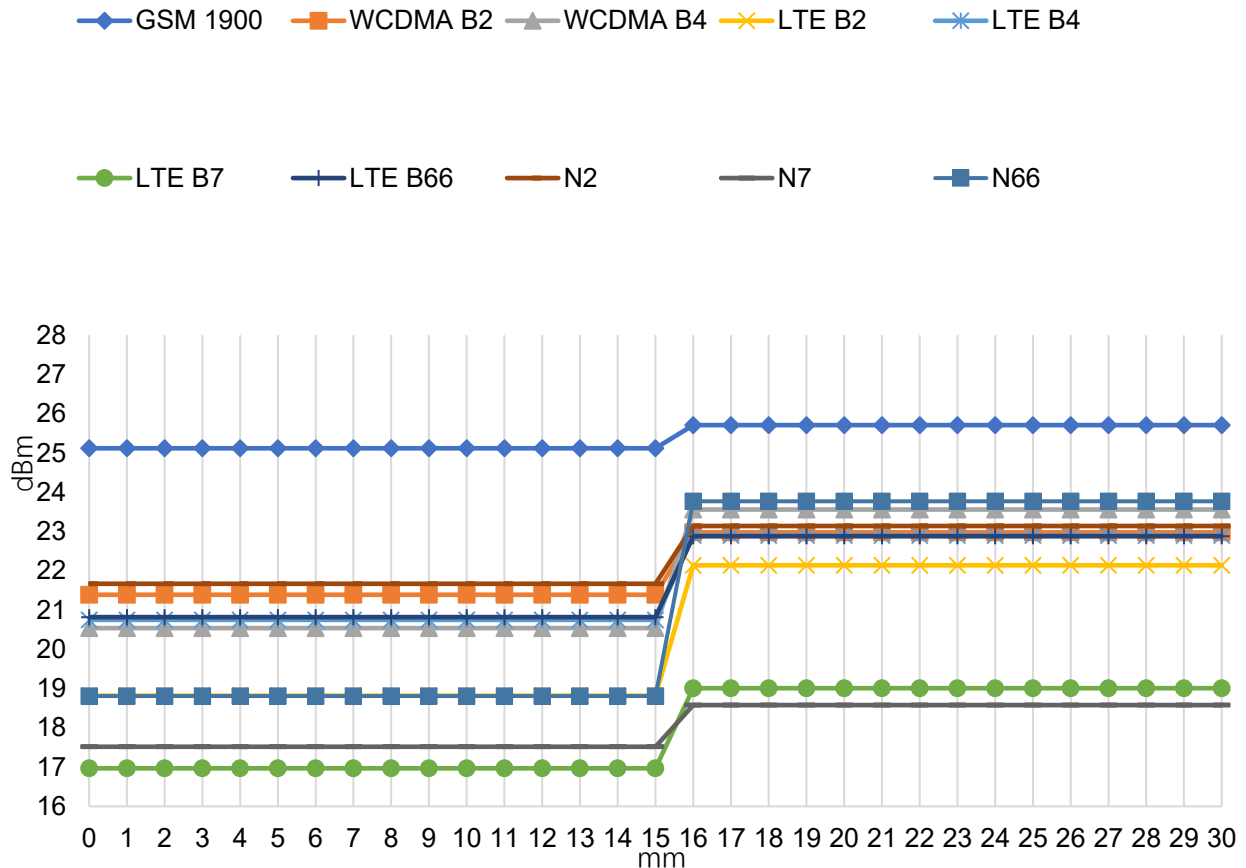
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Proximity sensor coverage

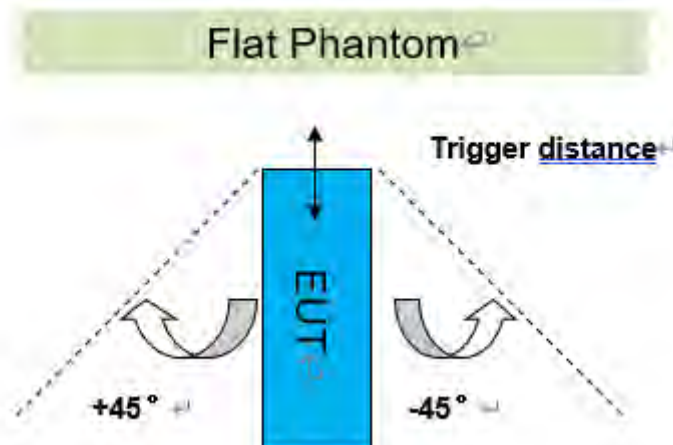
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences on proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering for Edge Side													
Band	Minimum trigger distance Per KDB616217\$6.2	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
(MHz)			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant 11: LTE B4/7/38/41/66 NR N7/38/41/66/77/78	Left Side 18mm	Left Side 18mm	on	on	on	on	on	on	on	on	on	on	on
Ant 12:NR N77/78	Left Side 18mm	Left Side 18mm	on	on	on	on	on	on	on	on	on	on	on
Ant 13: GSM 1900 WCDMA B2/4 LTE B2/4/7/66 NR N2/7/66	Top Side 15mm	Top Side 15mm	on	on	on	on	on	on	on	on	on	on	on

6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

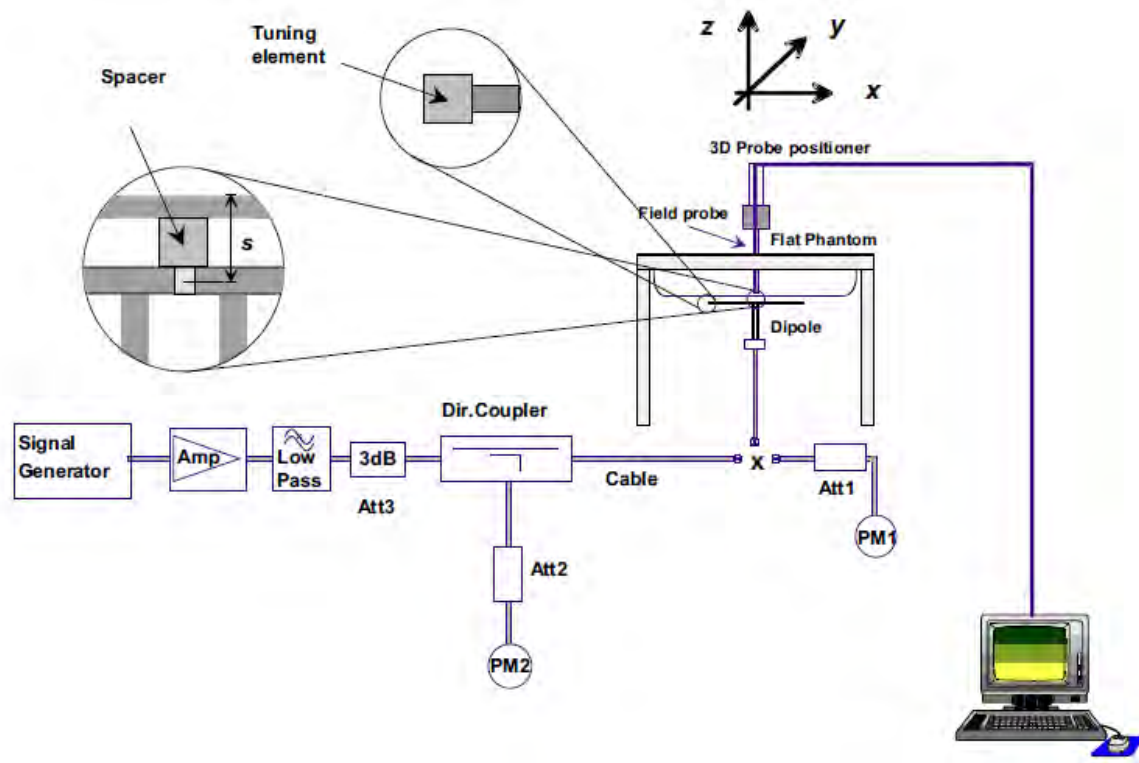
The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^\circ\text{C}$.

Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	42.904	0.875	41.90	0.89	2.40%	-1.69%	22.3	2024/8/2
835 Head	835	42.904	0.911	41.50	0.90	3.38%	1.22%	22.2	2024/7/31
835 Head	835	40.717	0.858	41.50	0.90	-1.89%	-4.67%	22.5	2024/8/3
1750 Head	1750	40.231	1.315	40.10	1.37	0.33%	-4.01%	22.3	2024/7/31
1750 Head	1750	40.677	1.332	40.10	1.37	1.44%	-2.77%	22.3	2024/8/11
1750 Head	1750	41.068	1.362	40.10	1.37	2.41%	-0.58%	22.4	2024/8/12
1900 Head	1900	41.671	1.404	40.00	1.40	4.18%	0.29%	22.1	2024/8/5
2450 Head	2450	40.326	1.788	39.20	1.80	2.87%	-0.67%	22.3	2024/8/13
2600 Head	2600	38.279	2.040	39.00	1.96	-1.85%	4.08%	22.1	2024/7/25
2600 Head	2600	39.321	1.991	39.00	1.96	0.82%	1.58%	22.4	2024/7/26
2600 Head	2600	38.338	2.049	39.00	1.96	-1.70%	4.54%	22.3	2024/7/29
2600 Head	2600	38.400	2.054	39.00	1.96	-1.54%	4.80%	22.2	2024/7/31
2600 Head	2600	39.234	1.980	39.00	1.96	0.60%	1.02%	22.0	2024/8/1
2600 Head	2600	38.446	2.053	39.00	1.96	-1.42%	4.74%	22.1	2024/8/2
3500 Head	3500	37.683	2.818	37.90	2.91	-0.57%	-3.16%	22.5	2024/8/14
3700 Head	3700	36.991	3.050	37.70	3.12	-1.88%	-2.24%	22.2	2024/8/16
3900 Head	3900	36.281	3.262	37.50	3.32	-3.25%	-1.75%	21.9	2024/8/17
5250 Head	5250	36.742	4.815	35.90	4.66	2.35%	3.32%	22.3	2024/8/4
5600 Head	5600	35.839	5.229	35.50	5.07	0.95%	3.13%	22.3	2024/8/5
5750 Head	5750	35.412	5.391	35.40	5.22	0.03%	3.28%	22.3	2024/8/6

Table 4 : Measurement result of Tissue electric parameters

6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12.The microwave circuit arrangement used for SAR system Check

6.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D750V3	Head	2.09	1.39	8.36	5.56	8.37	5.53	-0.12%	0.54%	22.3	2024/8/2
D835V2	Head	2.33	1.53	9.32	6.12	9.53	6.29	-2.20%	-2.70%	22.2	2024/7/31
D835V2	Head	2.19	1.44	8.76	5.76	9.53	6.29	-8.08%	-8.43%	22.5	2024/8/3
D1750V2	Head	8.48	4.57	33.92	18.28	36.60	19.30	-7.32%	-5.28%	22.3	2024/7/31
D1750V2	Head	8.48	4.63	33.92	18.52	36.60	19.30	-7.32%	-4.04%	22.3	2024/8/11
D1750V2	Head	8.90	4.80	35.60	19.20	36.60	19.30	-2.73%	-0.52%	22.4	2024/8/12
D1900V2	Head	9.86	5.09	39.44	20.36	39.50	20.60	-0.15%	-1.17%	22.1	2024/8/5
D2450V2	Head	13.50	6.35	54.00	25.40	52.20	24.30	3.45%	4.53%	22.3	2024/8/13
D2600V2	Head	14.70	6.60	58.80	26.40	57.70	25.80	1.91%	2.33%	22.1	2024/7/25
D2600V2	Head	14.80	6.61	59.20	26.44	57.70	25.80	2.60%	2.48%	22.4	2024/7/26
D2600V2	Head	15.50	6.98	62.00	27.92	57.70	25.80	7.45%	8.22%	22.3	2024/7/29
D2600V2	Head	15.10	6.80	60.40	27.20	57.70	25.80	4.68%	5.43%	22.2	2024/7/31
D2600V2	Head	14.00	6.27	56.00	25.08	57.70	25.80	-2.95%	-2.79%	22.0	2024/8/1
D2600V2	Head	14.40	6.47	57.60	25.88	57.70	25.80	-0.17%	0.31%	22.1	2024/8/2
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D3500V2	Head(3.5GHz)	6.23	2.39	62.30	23.90	65.80	25.70	-5.32%	-7.00%	22.5	2024/8/14
D3700V2	Head(3.7GHz)	6.63	2.51	66.30	25.10	66.10	24.70	0.30%	1.62%	22.2	2024/8/16
D3900V2	Head(3.9GHz)	6.25	2.21	62.50	22.10	66.70	23.80	-6.30%	-7.14%	21.9	2024/8/17
D5GHzV2	Head(5.25GHz)	7.90	2.27	79.00	22.70	77.30	22.10	2.20%	2.71%	22.3	2024/8/4
	Head(5.6GHz)	7.92	2.25	79.20	22.50	81.30	23.10	-2.58%	-2.60%	22.3	2024/8/5
	Head(5.75GHz)	7.40	2.13	74.00	21.30	77.10	21.30	-4.02%	0.00%	22.3	2024/8/6

Table 5 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 5 timeslots in downlink, the maximum total timeslot is 6. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1’s” for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations



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that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	β_c	Bd	β_d (SF)	β_c/β_d	β_{hs}	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs=30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (Ahs=24/15) with $\beta_{hs} = 24/15 * \beta_c$.

Note3: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

HS-DSCH Category	MaximumHS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumHS-DSCH TransportBlockBits/HS-DSCH TTI	TotalSoft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7 : HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.



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Sub-test ¹	$\beta_{c\downarrow}$	$\beta_{d\downarrow}$	β_d (SF) ²	β_c/β_d	$\beta_{hs\downarrow}$ (1) ³	$\beta_{acc\downarrow}$	$\beta_{ed\downarrow}$	$\beta_{c\downarrow}$ (SF) ⁴	$\beta_{ed\downarrow}$ (code) ⁵	CM (2) ⁶ (dB) ⁷	MP R _x (dB) ⁸	AG ⁽⁴⁾ Inde x ⁹	E-TFC I ¹⁰
1 ¹	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ¹	11/15 ⁽³⁾	22/15 ²	209/225 ³	1039/225 ⁴	4 ⁵	1 ⁶	1.0 ⁷	0.0 ⁸	20 ⁹	75 ¹⁰
2 ¹	6/15 ³	15/15 ⁴	64 ¹	6/15 ⁵	12/15 ⁶	12/15 ⁷	94/75 ⁸	4 ⁹	1 ¹⁰	3.0 ¹¹	2.0 ¹²	12 ¹³	67 ¹⁴
3 ¹	15/15 ³	9/15 ⁴	64 ¹	15/9 ⁵	30/15 ⁶	30/15 ⁷	$\beta_{ed1}:47/15^8$ $\beta_{ed2}:47/15^9$	4 ¹⁰	2 ¹¹	2.0 ¹²	1.0 ¹³	15 ¹⁴	92 ¹⁵
4 ¹	2/15 ³	15/15 ⁴	64 ¹	2/15 ⁵	4/15 ⁶	2/15 ⁷	56/75 ⁸	4 ⁹	1 ¹⁰	3.0 ¹¹	2.0 ¹²	17 ¹³	71 ¹⁴
5 ¹	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ¹	15/15 ⁽⁴⁾	30/15 ²	24/15 ³	134/15 ⁴	4 ⁵	1 ⁶	1.0 ⁷	0.0 ⁸	21 ⁹	81 ¹⁰

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_{c\downarrow}$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference¹
 Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ¹
 Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ¹
 Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g¹
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.¹

Table 8 : Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

Table 9 : HSUPA UE category

c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS



34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0.

A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

Note:

1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.

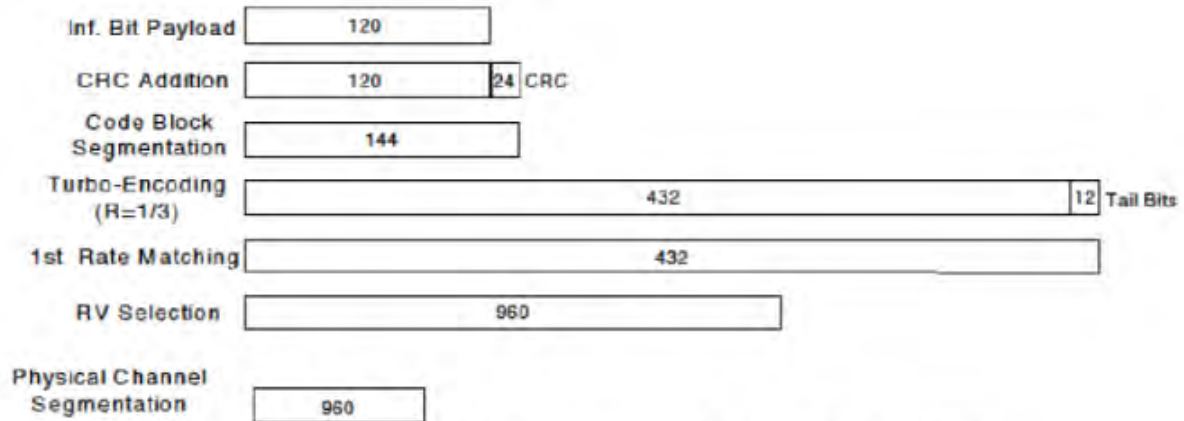


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test ¹	β_c ²	β_d ³	$\beta_d \cdot (SF)$ ⁴	β_c / β_d ⁵	$\beta_{hs} (1)$ ⁶	CM(dB)(2) ⁷	MPR (dB) ⁸
1 ⁹	2/15 ¹⁰	15/15 ¹¹	64 ¹²	2/15 ¹³	4/15 ¹⁴	0.0 ¹⁵	0 ¹⁶
2 ¹⁷	12/15(3) ¹⁸	15/15(3) ¹⁹	64 ²⁰	12/15(3) ²¹	24/15 ²²	1.0 ²³	0 ²⁴
3 ²⁵	15/15 ²⁶	8/15 ²⁷	64 ²⁸	15/8 ²⁹	30/15 ³⁰	1.5 ³¹	0.5 ³²
4 ³³	15/15 ³⁴	4/15 ³⁵	64 ³⁶	15/4 ³⁷	30/15 ³⁸	1.5 ³⁹	0.5 ⁴⁰

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

Up commands are set continuously to set the UE to Max power.

Note:

1. The Dual Carriers transmission only applies to HSDPA physical channels
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve Ues configured for dual cell operation
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.

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d) HSPA+

SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_{c+} (Note3)	β_d	β_{HS+} (Note1)	β_{ec+}	β_{ed+} (2xSF2) (Note 4)	β_{ed+} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

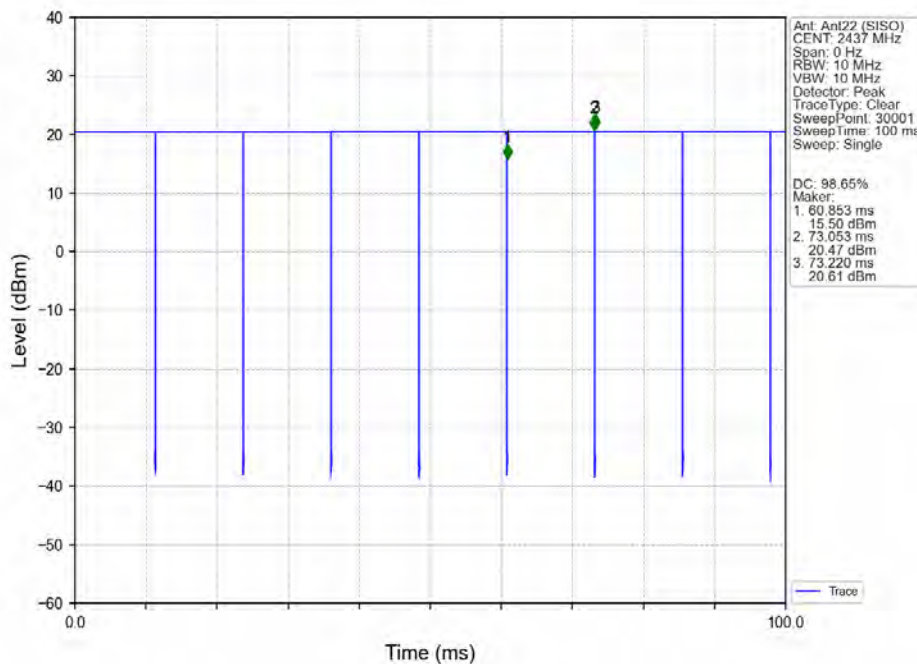
7.2.3 WIFI Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=98.65%



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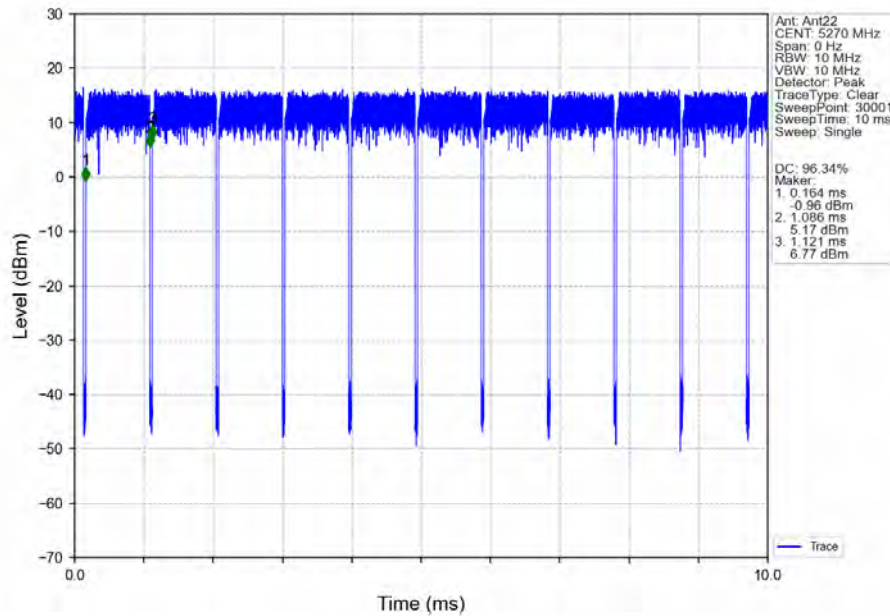
SZSAR-TRF-01 Rev. A/0 May15,2023

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2) Wi-Fi 5GHz 802.11n40:

Duty cycle=96.34%



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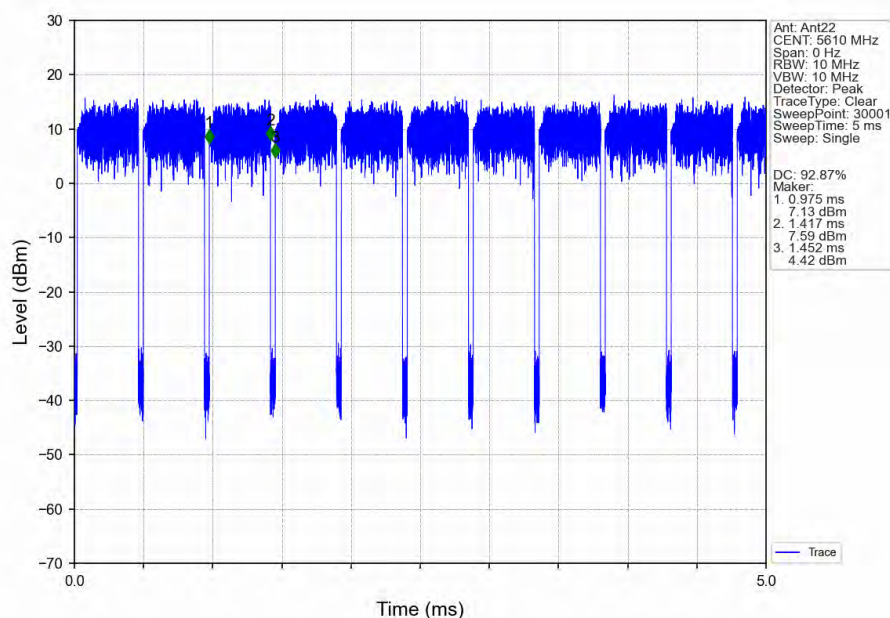
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3) Wi-Fi 5GHz 802.11ac80:

Duty cycle=92.87 %



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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.



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7.2.3.3 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"

7.2.3.4 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

• 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

• SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

7.2.3.5 5 GHz WiFi SAR Procedures

• U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

• U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

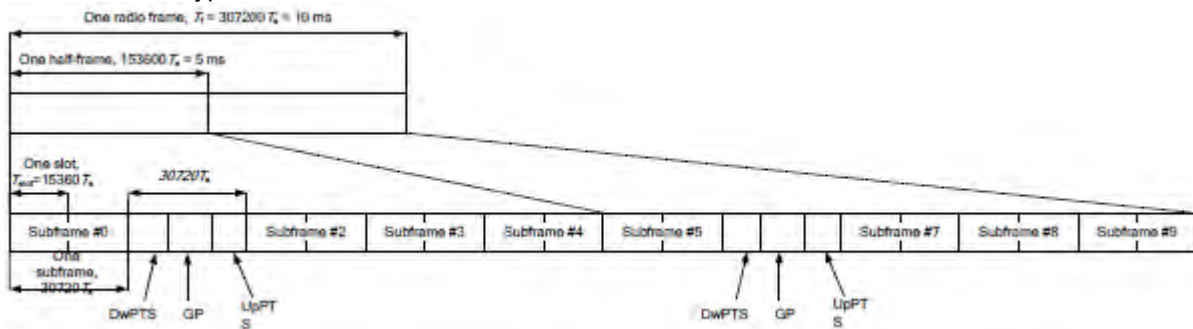


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts		

6	19760.Ts		23040.Ts		
7	21952.Ts		25600.Ts		
8	24144.Ts		-	-	-
9	13168.Ts		-	-	-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥ 1						5

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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F) LTE CA additional specification

The device supports intra-band contiguous and inter-band discontinuous uplink and downlink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- Intra-band carrier aggregation requirements for uplink.
- Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Appendix E (Conducted RF Output Power). The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

Downlink LTE CA
CA_2C
CA_7C
CA_38C
CA_41C
CA_66C
CA_66B
CA_2A-2A
CA_4A-4A
CA_5A-5A
CA_7A-7A
CA_41A-41A
CA_66A-66A
CA_2A-4A
CA_2A-5A
CA_2A-7A
CA_2A-26A
CA_2A-38A
CA_2A-66A
CA_4A-5A
CA_4A-7A
CA_5A-7A
CA_5A-38A
CA_5A-41A
CA_5A-66A
CA_7A-26A
CA_26A-41A
CA_2A-4A-5A
CA_2A-4A-7A
CA_2A-5A-7A
CA_2A-5A-66A
CA_2A-7A-7A
CA_2A-7A-66A
CA_2A-7A-38A

CA 4A-4A-5A
CA 4A-4A-7A
CA 5A-7A-66A
CA 5A-66A-66A
CA 7A-66A-66A
CA 41A-41A-41A
CA 2A-7C
CA 4A-7C
CA 5A-7C
CA 5A-66C
CA 41D
CA 5A-7C-66A
CA 5A-7A-66A-66A
CA 7C-66A-66A
Uplink LTE CA
CA 7C
CA 38C
CA 41C
CA 66C

SAR test procedure for intra-band contiguous UL LTE CA is as below:

1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2)SAR for UL CA is required in each exposure condition and frequency band combination

3)For this device , as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on



section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



DL CA Power Measurement Setup

c) Inter-band carrier aggregation requirements for uplink.

For Inter band Uplink CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter band Uplink CA component band as the inter-band Uplink CA SAR.

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The Inter band Uplink CA as below table:

LTE Band/Antenna		B4	B5		B7	B26		B66
		ANT11	ANT13	ANT31	ANT11	ANT13	ANT31	ANT11
B2	ANT13	√			√			√
	ANT31	√			√			√
B4	ANT13				√			
	ANT31				√			
	ANT11		√	√				
B5	ANT13				√			√
	ANT31				√			√
B7	ANT11					√	√	



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7.2.5 NR Band Test Configuration

- NR Band n2/n5/n7/n26/n38/n41/n66/n77/n78 support SA mode and n2/n5/n7/n38/n41/n66/n77/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2			LTE Band 4			LTE Band 5		LTE Band 7			LTE Band 26		LTE Band 38			LTE Band 41			LTE Band 66		
		ANT 13	ANT 31	ANT 11	ANT 13	ANT 31	ANT 11	ANT 13	ANT 31	ANT 13	ANT 31	ANT 11	ANT 13	ANT 31	ANT 13	ANT 31	ANT 11	ANT 13	ANT 31	ANT 11	ANT 13	ANT 31	ANT 11
n2	ANT13											√											
	ANT31											√											
n5	ANT13											√											
	ANT31											√											
n7	ANT11		√			√		√	√													√	
	ANT13		√			√																√	
n38	ANT11		√			√		√	√													√	
	ANT13		√			√																√	
n41	ANT11		√			√							√	√								√	
	ANT13		√			√																√	
n66	ANT11		√					√	√			√											
	ANT13											√											
n77	ANT11									√	√												
	ANT12									√	√												
n78	ANT11	√	√		√	√		√	√	√	√		√	√	√	√		√	√		√	√	
	ANT12	√	√		√	√		√	√	√	√		√	√	√	√		√	√		√	√	

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2. The general information supported by the NR band is as following table:

Band		n2	n5	n7	n26	n38	n41	n66	n77	n78
NR mode		SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		NSA	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	

Band	SCS	Bandwidth													
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	35MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n26	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes

3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.

8 Test Result

8.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8).$$

- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band

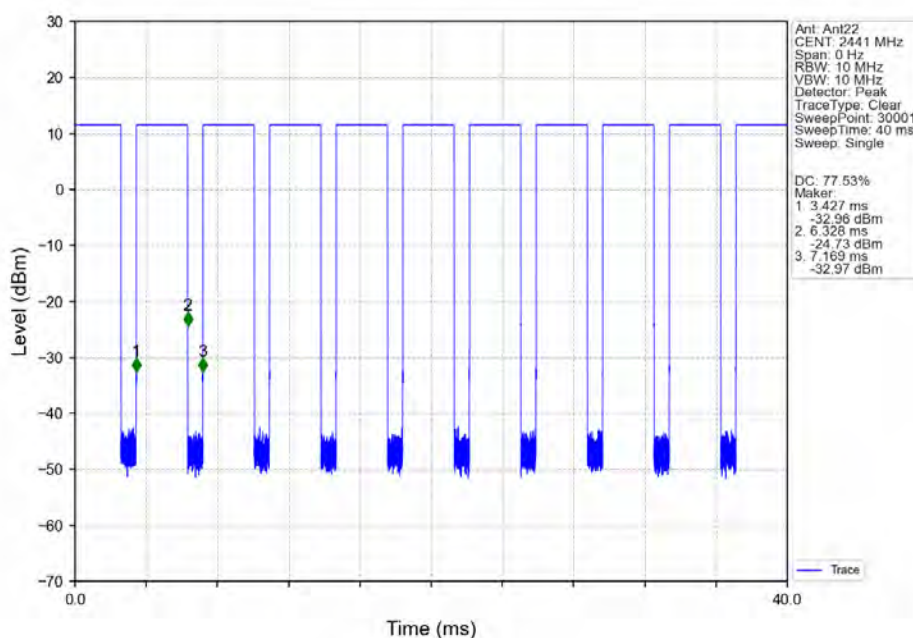


channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector.
BT DH5 Duty Cycle=77.53%



8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are estimated based on standalone results.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands do not support hotspot function.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.



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8.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.405	0.266	-0.07	24.21	26.00	1.510	0.612	22.5
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.316	0.204	-0.05	24.21	26.00	1.510	0.477	22.5
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.601	0.346	-0.02	24.21	26.00	1.510	0.908	22.5
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.458	0.244	0.02	24.21	26.00	1.510	0.692	22.5
Right cheek	GPRS 3TS	128/824.2	1:2.77	0.526	0.318	0.02	24.26	26.00	1.493	0.785	22.5
Right cheek	GPRS 3TS	251/848.8	1:2.77	0.489	0.294	0.03	24.27	26.00	1.489	0.728	22.5
Head Test Data DSI 3											
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.405	0.266	-0.07	24.21	25.50	1.346	0.545	22.5
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.316	0.204	-0.05	24.21	25.50	1.346	0.425	22.5
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.601	0.346	-0.02	24.21	25.50	1.346	0.809	22.5
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.458	0.244	0.02	24.21	25.50	1.346	0.616	22.5
Right cheek	GPRS 3TS	128/824.2	1:2.77	0.526	0.318	0.02	24.26	25.50	1.330	0.700	22.5
Right cheek	GPRS 3TS	251/848.8	1:2.77	0.489	0.294	0.03	24.27	25.50	1.327	0.649	22.5
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	190/836.6	1:4.15	0.185	0.131	0.03	30.52	32.00	1.406	0.260	22.5
Back side	GPRS 2TS	190/836.6	1:4.15	0.243	0.188	0.06	30.52	32.00	1.406	0.342	22.5
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 3TS	190/836.6	1:2.77	0.169	0.119	0.02	28.09	29.50	1.384	0.234	22.2
Back side	GPRS 3TS	190/836.6	1:2.77	0.244	0.163	0.12	28.09	29.50	1.384	0.338	22.2
Left side	GPRS 3TS	190/836.6	1:2.77	0.165	0.109	0.04	28.09	29.50	1.384	0.228	22.2
Top side	GPRS 3TS	190/836.6	1:2.77	0.238	0.151	0.06	28.09	29.50	1.384	0.329	22.2
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.130	0.090	-0.04	30.44	31.50	1.276	0.166	22.5
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.060	0.042	-0.07	30.44	31.50	1.276	0.076	22.5
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.146	0.101	-0.08	30.44	31.50	1.276	0.186	22.5
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.085	0.055	0.09	30.44	31.50	1.276	0.109	22.5
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	190/836.6	1:4.15	0.128	0.091	0.02	30.44	31.50	1.276	0.163	22.5
Back side	GPRS 2TS	190/836.6	1:4.15	0.122	0.093	0.08	30.44	31.50	1.276	0.156	22.5
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 3TS	190/836.6	1:2.77	0.168	0.115	-0.04	27.63	29.00	1.371	0.230	22.5
Back side	GPRS 3TS	190/836.6	1:2.77	0.237	0.132	-0.03	27.63	29.00	1.371	0.325	22.5



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Left side	GPRS 3TS	190/836.6	1:2.77	0.170	0.115	-0.10	27.63	29.00	1.371	0.233	22.2
Right side	GPRS 3TS	190/836.6	1:2.77	0.097	0.066	0.17	27.63	29.00	1.371	0.133	22.2
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.175	0.108	0.07	27.63	29.00	1.371	0.240	22.2

Table 11 : SAR of GSM850 for Head, Body and Hotspot.



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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.167	0.092	0.12	17.35	19.00	1.462	0.244	22.3
Left tilted	GPRS 4TS	661/1880	1:2.075	0.202	0.107	-0.01	17.35	19.00	1.462	0.295	22.3
Right cheek	GPRS 4TS	661/1880	1:2.075	0.276	0.144	0.05	17.35	19.00	1.462	0.404	22.3
Right tilted	GPRS 4TS	661/1880	1:2.075	0.400	0.179	0.09	17.35	19.00	1.462	0.585	22.5
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	661/1880	1:4.15	0.205	0.115	-0.07	27.80	29.00	1.318	0.270	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.289	0.165	0.11	27.80	29.00	1.318	0.381	22.5
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 3TS	661/1880	1:2.77	0.252	0.131	0.09	23.74	25.00	1.337	0.337	22.3
Back side	GPRS 3TS	661/1880	1:2.77	0.331	0.176	-0.01	23.74	25.00	1.337	0.442	22.3
Left side	GPRS 3TS	661/1880	1:2.77	0.064	0.038	-0.12	23.74	25.00	1.337	0.086	22.3
Top side	GPRS 3TS	661/1880	1:2.77	0.403	0.195	0.03	23.74	25.00	1.337	0.539	22.5
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 2TS	661/1880	1:4.15	0.095	0.059	0.06	27.62	29.00	1.374	0.131	22.3
Left tilted	GPRS 2TS	661/1880	1:4.15	0.059	0.035	0.14	27.62	29.00	1.374	0.081	22.3
Right cheek	GPRS 2TS	661/1880	1:4.15	0.070	0.044	-0.08	27.62	29.00	1.374	0.096	22.3
Right tilted	GPRS 2TS	661/1880	1:4.15	0.066	0.038	0.08	27.62	29.00	1.374	0.091	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	661/1880	1:4.15	0.133	0.081	0.19	26.05	27.50	1.396	0.186	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.184	0.114	0.07	26.05	27.50	1.396	0.257	22.3
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 4TS	661/1880	1:2.075	0.184	0.106	0.14	21.89	23.50	1.449	0.267	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.259	0.156	-0.09	21.89	23.50	1.449	0.375	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.050	0.030	-0.03	21.89	23.50	1.449	0.072	22.3
Right side	GPRS 4TS	661/1880	1:2.075	0.045	0.024	0.15	21.89	23.50	1.449	0.065	22.3
Bottom side	GPRS 4TS	661/1880	1:2.075	0.309	0.175	-0.05	21.89	23.50	1.449	0.448	22.3

Table 12 : SAR of GSM1900 for Head, Body and Hotspot.

8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data DSI 2											
Left cheek	RMC	9400/1880	1:1	0.196	0.117	0.07	15.31	16.50	1.315	0.258	22.3
Left tilted	RMC	9400/1880	1:1	0.279	0.151	-0.02	15.31	16.50	1.315	0.367	22.3
Right cheek	RMC	9400/1880	1:1	0.374	0.195	0.09	15.31	16.50	1.315	0.492	22.3
Right tilted	RMC	9400/1880	1:1	0.540	0.235	0.08	15.31	16.50	1.315	0.710	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	9400/1880	1:1	0.301	0.169	0.11	22.98	24.00	1.265	0.381	22.3
Back side	RMC	9400/1880	1:1	0.350	0.204	0.01	22.98	24.00	1.265	0.443	22.5
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	9400/1880	1:1	0.261	0.131	0.07	19.08	20.00	1.236	0.323	22.3
Back side	RMC	9400/1880	1:1	0.332	0.179	0.15	19.08	20.00	1.236	0.410	22.3
Left side	RMC	9400/1880	1:1	0.067	0.036	-0.03	19.08	20.00	1.236	0.083	22.3
Top side	RMC	9400/1880	1:1	0.438	0.222	0.07	19.08	20.00	1.236	0.541	22.5
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data Sensor on DSI 5											
Top side	RMC	9400/1880	1:1	4.600	1.780	0.05	21.39	22.50	1.291	2.298	22.1
Top side	RMC	9262/1852.4	1:1	4.470	1.730	0.07	21.55	22.50	1.245	2.153	22.1
Top side	RMC	9538/1907.6	1:1	4.560	1.750	0.05	21.35	22.50	1.303	2.281	22.1
Product specific 10g SAR Test data Sensor off DSI 4											
Top side 14mm	RMC	9400/1880	1:1	0.612	0.331	-0.05	22.98	24.00	1.265	0.419	22.1
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data DSI 2											
Left cheek	RMC	9400/1880	1:1	0.113	0.068	-0.09	22.96	24.00	1.271	0.144	22.1
Left tilted	RMC	9400/1880	1:1	0.077	0.041	0.05	22.96	24.00	1.271	0.098	22.1
Right cheek	RMC	9400/1880	1:1	0.093	0.056	0.02	22.96	24.00	1.271	0.118	22.1
Right tilted	RMC	9400/1880	1:1	0.087	0.047	0.01	22.96	24.00	1.271	0.110	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	9400/1880	1:1	0.148	0.090	-0.01	20.32	21.50	1.312	0.194	22.3
Back side	RMC	9400/1880	1:1	0.207	0.130	0.13	20.32	21.50	1.312	0.272	22.3
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	9400/1880	1:1	0.196	0.115	0.15	19.78	21.00	1.324	0.260	22.3

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Back side	RMC	9400/1880	1:1	0.294	0.177	-0.12	19.78	21.00	1.324	0.389	22.3
Left side	RMC	9400/1880	1:1	0.051	0.031	0.14	19.78	21.00	1.324	0.068	22.3
Right side	RMC	9400/1880	1:1	0.092	0.051	0.09	19.78	21.00	1.324	0.122	22.3
Bottom side	RMC	9400/1880	1:1	0.342	0.192	0.18	19.78	21.00	1.324	0.453	22.3

Table 13 : SAR of WCDMA Band II for Head, Body and Hotspot.



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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	1412/1732.4	1:1	0.328	0.177	0.03	15.56	16.50	1.242	0.407	22.3
Left tilted	RMC	1412/1732.4	1:1	0.355	0.158	-0.03	15.56	16.50	1.242	0.441	22.3
Right cheek	RMC	1412/1732.4	1:1	0.583	0.291	-0.03	15.56	16.50	1.242	0.724	22.3
Right tilted	RMC	1412/1732.4	1:1	0.593	0.264	0.06	15.56	16.50	1.242	0.736	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	1412/1732.4	1:1	0.350	0.214	0.15	23.56	24.50	1.242	0.435	22.3
Back side	RMC	1412/1732.4	1:1	0.376	0.226	0.04	23.56	24.50	1.242	0.467	22.5
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	1412/1732.4	1:1	0.377	0.194	0.14	19.59	20.50	1.233	0.465	22.3
Back side	RMC	1412/1732.4	1:1	0.392	0.222	-0.01	19.59	20.50	1.233	0.483	22.3
Left side	RMC	1412/1732.4	1:1	0.060	0.035	0.07	19.59	20.50	1.233	0.074	22.3
Top side	RMC	1412/1732.4	1:1	0.469	0.238	0.13	19.59	20.50	1.233	0.578	22.5
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm) Sensor on DSI 5											
Back side	RMC	1412/1732.4	1:1	1.480	0.761	-0.17	20.54	21.50	1.247	0.949	22.1
Top side	RMC	1412/1732.4	1:1	2.370	0.906	-0.01	20.54	21.50	1.247	1.130	22.1
Product specific 10g SAR Test data Sensor off DSI 4											
Back side 13mm	RMC	1412/1732.4	1:1	0.585	0.331	0.02	23.56	24.50	1.242	0.411	22.1
Top side 14mm	RMC	1412/1732.4	1:1	0.679	0.371	-0.13	23.56	24.50	1.242	0.461	22.1
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	1412/1732.4	1:1	0.064	0.038	0.07	23.33	24.50	1.309	0.084	22.1
Left tilted	RMC	1412/1732.4	1:1	0.039	0.022	0.09	23.33	24.50	1.309	0.051	22.1
Right cheek	RMC	1412/1732.4	1:1	0.056	0.033	0.03	23.33	24.50	1.309	0.073	22.1
Right tilted	RMC	1412/1732.4	1:1	0.038	0.021	0.01	23.33	24.50	1.309	0.050	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	1412/1732.4	1:1	0.140	0.086	0.15	20.89	22.00	1.291	0.181	22.3
Back side	RMC	1412/1732.4	1:1	0.203	0.122	-0.04	20.89	22.00	1.291	0.262	22.3
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	1412/1732.4	1:1	0.185	0.104	0.11	19.42	20.50	1.282	0.237	22.3



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Back side	RMC	1412/1732.4	1:1	0.281	0.163	-0.06	19.42	20.50	1.282	0.360	22.3
Left side	RMC	1412/1732.4	1:1	0.004	0.002	0.07	19.42	20.50	1.282	0.005	22.3
Right side	RMC	1412/1732.4	1:1	0.060	0.032	0.16	19.42	20.50	1.282	0.077	22.3
Bottom side	RMC	1412/1732.4	1:1	0.326	0.173	-0.09	19.42	20.50	1.282	0.418	22.3

Table 14 : SAR of WCDMA Band IV for Head, Body and Hotspot.



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8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 13 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	4182/836.4	1:1	0.341	0.224	0.01	19.52	20.50	1.253	0.427	22.2
Left tilted	RMC	4182/836.4	1:1	0.256	0.169	0.00	19.52	20.50	1.253	0.321	22.2
Right cheek	RMC	4182/836.4	1:1	0.526	0.311	0.05	19.52	20.50	1.253	0.659	22.2
Right tilted	RMC	4182/836.4	1:1	0.383	0.234	0.03	19.52	20.50	1.253	0.480	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	4182/836.4	1:1	0.154	0.108	0.06	24.11	25.00	1.227	0.189	22.2
Back side	RMC	4182/836.4	1:1	0.199	0.153	0.01	24.11	25.00	1.227	0.244	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	4182/836.4	1:1	0.246	0.164	-0.06	24.11	25.00	1.227	0.302	22.2
Back side	RMC	4182/836.4	1:1	0.340	0.216	0.07	24.11	25.00	1.227	0.417	22.2
Left side	RMC	4182/836.4	1:1	0.165	0.112	0.03	24.11	25.00	1.227	0.203	22.2
Top side	RMC	4182/836.4	1:1	0.264	0.167	-0.01	24.11	25.00	1.227	0.324	22.2
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	4182/836.4	1:1	0.155	0.108	0.06	23.85	25.00	1.303	0.202	22.2
Left tilted	RMC	4182/836.4	1:1	0.077	0.054	0.02	23.85	25.00	1.303	0.101	22.2
Right cheek	RMC	4182/836.4	1:1	0.160	0.127	0.05	23.85	25.00	1.303	0.209	22.2
Right tilted	RMC	4182/836.4	1:1	0.069	0.049	0.07	23.85	25.00	1.303	0.090	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	4182/836.4	1:1	0.125	0.089	0.02	23.42	24.50	1.282	0.160	22.2
Back side	RMC	4182/836.4	1:1	0.130	0.100	0.04	23.42	24.50	1.282	0.167	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	4182/836.4	1:1	0.136	0.087	0.02	22.54	23.50	1.247	0.170	22.2
Back side	RMC	4182/836.4	1:1	0.184	0.111	0.03	22.54	23.50	1.247	0.230	22.2
Left side	RMC	4182/836.4	1:1	0.127	0.086	0.05	22.54	23.50	1.247	0.158	22.2
Right side	RMC	4182/836.4	1:1	0.086	0.058	0.06	22.54	23.50	1.247	0.107	22.2
Bottom side	RMC	4182/836.4	1:1	0.145	0.089	0.13	22.54	23.50	1.247	0.181	22.2

Table 15 : SAR of WCDMA Band V for Head, Body and Hotspot.

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8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	19100/1900	1:1	0.234	0.121	-0.08	15.08	16.50	1.387	0.325	22.3
Left tilted	20	QPSK 1_50	19100/1900	1:1	0.276	0.142	0.07	15.08	16.50	1.387	0.383	22.3
Right cheek	20	QPSK 1_50	19100/1900	1:1	0.370	0.176	0.02	15.08	16.50	1.387	0.513	22.3
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.436	0.191	0.13	15.08	16.50	1.387	0.605	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	19100/1900	1:1	0.234	0.121	-0.01	15.15	16.50	1.365	0.319	22.3
Left tilted	20	QPSK 50_50	19100/1900	1:1	0.286	0.147	-0.01	15.15	16.50	1.365	0.390	22.3
Right cheek	20	QPSK 50_50	19100/1900	1:1	0.428	0.196	0.18	15.15	16.50	1.365	0.584	22.3
Right tilted	20	QPSK 50_50	19100/1900	1:1	0.484	0.217	0.11	15.15	16.50	1.365	0.660	22.3
Head Test Data (1RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	20	QPSK 1_50	19100/1900	1:1	0.234	0.121	-0.08	15.08	15.50	1.102	0.258	22.3
Left tilted	20	QPSK 1_50	19100/1900	1:1	0.276	0.142	0.07	15.08	15.50	1.102	0.304	22.3
Right cheek	20	QPSK 1_50	19100/1900	1:1	0.370	0.176	0.02	15.08	15.50	1.102	0.408	22.3
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.436	0.191	0.13	15.08	15.50	1.102	0.480	22.3
Head Test Data (50%RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	20	QPSK 50_50	19100/1900	1:1	0.234	0.121	-0.01	15.15	15.50	1.084	0.254	22.3
Left tilted	20	QPSK 50_50	19100/1900	1:1	0.286	0.147	-0.01	15.15	15.50	1.084	0.310	22.3
Right cheek	20	QPSK 50_50	19100/1900	1:1	0.428	0.196	0.18	15.15	15.50	1.084	0.464	22.3
Right tilted	20	QPSK 50_50	19100/1900	1:1	0.484	0.217	0.11	15.15	15.50	1.084	0.525	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	19100/1900	1:1	0.236	0.139	0.06	22.49	24.00	1.416	0.334	22.1
Back side	20	QPSK 1_50	19100/1900	1:1	0.332	0.193	0.07	22.49	24.00	1.416	0.470	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	18700/1860	1:1	0.240	0.140	0.01	21.63	23.00	1.371	0.329	22.1
Back side	20	QPSK 50_0	18700/1860	1:1	0.320	0.187	0.01	21.63	23.00	1.371	0.439	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	18700/1860	1:1	0.215	0.115	0.05	17.71	19.00	1.346	0.289	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.313	0.169	0.08	17.71	19.00	1.346	0.421	22.3
Left side	20	QPSK 1_0	18700/1860	1:1	0.054	0.032	0.02	17.71	19.00	1.346	0.073	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	0.332	0.159	-0.07	17.71	19.00	1.346	0.447	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	18700/1860	1:1	0.218	0.116	0.02	17.70	19.00	1.349	0.294	22.3



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Back side	20	QPSK 50_0	18700/1860	1:1	0.312	0.168	0.06	17.70	19.00	1.349	0.421	22.3
Left side	20	QPSK 50_0	18700/1860	1:1	0.053	0.032	0.02	17.70	19.00	1.349	0.071	22.3
Top side	20	QPSK 50_0	18700/1860	1:1	0.347	0.165	0.03	17.70	19.00	1.349	0.468	22.3
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_50	18700/1860	1:1	1.560	0.784	0.15	19.35	20.50	1.303	1.022	22.3
Top side	20	QPSK 1_50	18700/1860	1:1	2.570	0.989	0.05	19.35	20.50	1.303	1.289	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_25	18700/1860	1:1	1.590	0.804	0.01	19.35	20.50	1.303	1.048	22.3
Top side	20	QPSK 50_25	18700/1860	1:1	2.430	0.934	0.19	19.35	20.50	1.303	1.217	22.3
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 1_50	19100/1900	1:1	0.479	0.264	-0.04	22.49	24.00	1.416	0.374	22.1
Top side 14mm	20	QPSK 1_50	19100/1900	1:1	0.619	0.324	-0.14	22.49	24.00	1.416	0.459	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_0	18700/1860	1:1	0.550	0.289	-0.12	21.63	23.00	1.371	0.396	22.1
Top side 14mm	20	QPSK 50_0	18700/1860	1:1	0.486	0.277	0.16	21.63	23.00	1.371	0.380	22.1
Ant 31 Test Record												
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.114	0.067	0.02	22.41	23.50	1.285	0.147	22.1
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.069	0.037	0.08	22.41	23.50	1.285	0.088	22.1
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.069	0.040	0.04	22.41	23.50	1.285	0.088	22.1
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.079	0.045	0.03	22.41	23.50	1.285	0.101	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.088	0.052	0.01	21.50	22.50	1.259	0.110	22.1
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.056	0.030	0.06	21.50	22.50	1.259	0.070	22.1
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.057	0.033	0.02	21.50	22.50	1.259	0.072	22.1
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.066	0.037	0.05	21.50	22.50	1.259	0.083	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	18700/1860	1:1	0.136	0.082	0.01	20.14	21.00	1.219	0.166	22.1
Back side	20	QPSK 1_50	18700/1860	1:1	0.195	0.121	0.15	20.14	21.00	1.219	0.238	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	19100/1900	1:1	0.137	0.083	0.18	20.21	21.00	1.199	0.164	22.1
Back side	20	QPSK 50_50	19100/1900	1:1	0.211	0.127	-0.02	20.21	21.00	1.199	0.253	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	19100/1900	1:1	0.192	0.115	-0.19	19.19	20.00	1.205	0.231	22.1
Back side	20	QPSK 1_99	19100/1900	1:1	0.291	0.174	0.07	19.19	20.00	1.205	0.351	22.1



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Left side	20	QPSK 1_99	19100/1900	1:1	0.058	0.034	-0.14	19.19	20.00	1.205	0.070	22.1
Right side	20	QPSK 1_99	19100/1900	1:1	0.072	0.036	0.16	19.19	20.00	1.205	0.087	22.1
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.441	0.253	0.01	19.19	20.00	1.205	0.531	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	19100/1900	1:1	0.200	0.119	0.15	19.22	20.00	1.197	0.239	22.1
Back side	20	QPSK 50_50	19100/1900	1:1	0.320	0.189	-0.17	19.22	20.00	1.197	0.383	22.1
Left side	20	QPSK 50_50	19100/1900	1:1	0.058	0.034	-0.13	19.22	20.00	1.197	0.069	22.1
Right side	20	QPSK 50_50	19100/1900	1:1	0.072	0.036	0.14	19.22	20.00	1.197	0.086	22.1
Bottom side	20	QPSK 50_50	19100/1900	1:1	0.403	0.226	0.15	19.22	20.00	1.197	0.482	22.1

Table 16 : SAR of LTE Band 2 for Head, Body and Hotspot.



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8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.194	0.081	0.07	13.22	14.50	1.343	0.260	22.3
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.235	0.096	0.04	13.22	14.50	1.343	0.316	22.3
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.466	0.179	0.08	13.22	14.50	1.343	0.626	22.3
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.589	0.220	0.18	13.22	14.50	1.343	0.791	22.3
Right tilted	20	QPSK PCC 1_0	21350/2560	1:1	0.522	0.211	0.02	13.78	14.50	1.180	0.616	22.4
		QPSK SCC 0_0	21152/2540.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	21350/2560	1:1	0.196	0.083	0.05	13.26	14.50	1.330	0.261	22.3
Left tilted	20	QPSK 50_0	21350/2560	1:1	0.242	0.098	0.05	13.26	14.50	1.330	0.322	22.3
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.466	0.178	0.01	13.26	14.50	1.330	0.620	22.3
Right tilted	20	QPSK 50_0	21350/2560	1:1	0.590	0.221	0.02	13.26	14.50	1.330	0.785	22.3
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.194	0.081	0.07	13.22	13.50	1.067	0.207	22.3
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.235	0.096	0.04	13.22	13.50	1.067	0.251	22.3
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.466	0.179	0.08	13.22	13.50	1.067	0.497	22.3
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.589	0.220	0.18	13.22	13.50	1.067	0.628	22.3
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_0	21350/2560	1:1	0.196	0.083	0.05	13.26	13.50	1.057	0.207	22.3
Left tilted	20	QPSK 50_0	21350/2560	1:1	0.242	0.098	0.05	13.26	13.50	1.057	0.256	22.3
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.466	0.178	0.01	13.26	13.50	1.057	0.492	22.3
Right tilted	20	QPSK 50_0	21350/2560	1:1	0.590	0.221	0.02	13.26	13.50	1.057	0.624	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	20850/2510	1:1	0.145	0.072	-0.05	19.33	20.50	1.309	0.190	22.3
Back side	20	QPSK 1_0	20850/2510	1:1	0.463	0.222	-0.13	19.33	20.50	1.309	0.606	22.3
Back side	20	QPSK PCC 1_0	20850/2510	1:1	0.479	0.236	-0.03	19.89	20.50	1.151	0.551	22.4
		QPSK SCC 0_0	21048/2529.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	20850/2510	1:1	0.148	0.074	0.11	19.25	20.50	1.334	0.197	22.3
Back side	20	QPSK 50_0	20850/2510	1:1	0.488	0.233	0.05	19.25	20.50	1.334	0.651	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4 with ENDC												
Front side	20	QPSK 1_0	20850/2510	1:1	0.145	0.072	-0.05	19.33	19.50	1.040	0.151	22.3
Back side	20	QPSK 1_0	20850/2510	1:1	0.463	0.222	-0.13	19.33	19.50	1.040	0.481	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4 with ENDC												
Front side	20	QPSK 50_0	20850/2510	1:1	0.148	0.074	0.11	19.25	19.50	1.059	0.157	22.3



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Back side	20	QPSK 50_0	20850/2510	1:1	0.488	0.233	0.05	19.25	19.50	1.059	0.517	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	21350/2560	1:1	0.114	0.054	-0.01	14.68	16.00	1.355	0.154	22.3
Back side	20	QPSK 1_50	21350/2560	1:1	0.439	0.180	0.07	14.68	16.00	1.355	0.595	22.3
Left side	20	QPSK 1_50	21350/2560	1:1	0.055	0.029	-0.13	14.68	16.00	1.355	0.075	22.3
Top side	20	QPSK 1_50	21350/2560	1:1	0.462	0.197	0.09	14.68	16.00	1.355	0.626	22.3
Top side	20	QPSK PCC 1_0	21350/2560	1:1	0.438	0.182	0.05	15.32	16.00	1.169	0.512	22.4
		QPSK SCC 0_0	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	21350/2560	1:1	0.117	0.055	0.18	14.77	16.00	1.327	0.155	22.3
Back side	20	QPSK 50_25	21350/2560	1:1	0.426	0.181	-0.03	14.77	16.00	1.327	0.565	22.3
Left side	20	QPSK 50_25	21350/2560	1:1	0.047	0.025	0.09	14.77	16.00	1.327	0.062	22.3
Top side	20	QPSK 50_25	21350/2560	1:1	0.464	0.199	0.06	14.77	16.00	1.327	0.616	22.3
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_99	21350/2560	1:1	4.330	1.490	-0.01	17.31	18.50	1.315	1.960	22.1
Top side	20	QPSK 1_99	21350/2560	1:1	2.810	1.020	0.02	17.31	18.50	1.315	1.342	22.1
Back side	20	QPSK PCC 1_0	21350/2560	1:1	3.000	1.190	-0.06	17.83	18.50	1.167	1.389	22.4
		QPSK SCC 0_0	21152/2540.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_25	21350/2560	1:1	4.470	1.530	0.05	17.35	18.50	1.303	1.994	22.1
Top side	20	QPSK 50_25	21350/2560	1:1	2.960	1.080	0.08	17.35	18.50	1.303	1.407	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5 with ENDC												
Back side	20	QPSK 1_99	21350/2560	1:1	4.330	1.490	-0.01	17.31	17.50	1.045	1.557	22.1
Top side	20	QPSK 1_99	21350/2560	1:1	2.810	1.020	0.02	17.31	17.50	1.045	1.066	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5 with ENDC												
Back side	20	QPSK 50_25	21350/2560	1:1	4.470	1.530	0.05	17.35	17.50	1.035	1.584	22.1
Top side	20	QPSK 50_25	21350/2560	1:1	2.960	1.080	0.08	17.35	17.50	1.035	1.118	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 1_0	20850/2510	1:1	0.633	0.287	-0.16	19.33	20.50	1.309	0.376	22.1
Top side 14mm	20	QPSK 1_0	20850/2510	1:1	0.628	0.282	0.14	19.33	20.50	1.309	0.369	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_0	20850/2510	1:1	0.655	0.296	-0.11	19.25	20.50	1.334	0.395	22.1
Top side 14mm	20	QPSK 50_0	20850/2510	1:1	0.640	0.285	0.05	19.25	20.50	1.334	0.380	22.1
Ant 31 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)



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Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.100	0.058	0.05	21.90	23.50	1.445	0.145	22.1
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.060	0.034	0.12	21.90	23.50	1.445	0.087	22.1
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.178	0.098	-0.12	21.90	23.50	1.445	0.257	22.1
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.080	0.044	0.09	21.90	23.50	1.445	0.116	22.1
Right cheek	20	QPSK PCC 1_0	21350/2560	1:1	0.149	0.089	0.01	21.52	23.50	1.578	0.235	22.4
		QPSK SCC 0_0	21152/2540.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	21350/2560	1:1	0.078	0.046	0.12	21.06	22.50	1.393	0.109	22.1
Left tilted	20	QPSK 50_25	21350/2560	1:1	0.050	0.028	-0.01	21.06	22.50	1.393	0.070	22.1
Right cheek	20	QPSK 50_25	21350/2560	1:1	0.154	0.085	0.01	21.06	22.50	1.393	0.215	22.1
Right tilted	20	QPSK 50_25	21350/2560	1:1	0.068	0.037	-0.15	21.06	22.50	1.393	0.095	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	21350/2560	1:1	0.141	0.075	-0.07	21.90	23.50	1.445	0.204	22.3
Back side	20	QPSK 1_50	21350/2560	1:1	0.133	0.072	-0.02	21.90	23.50	1.445	0.192	22.3
Front side	20	QPSK PCC 1_0	21350/2560	1:1	0.126	0.070	-0.07	21.52	23.50	1.578	0.199	22.4
		QPSK SCC 0_0	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	21350/2560	1:1	0.122	0.068	0.18	21.06	22.50	1.393	0.170	22.3
Back side	20	QPSK 50_25	21350/2560	1:1	0.106	0.059	0.03	21.06	22.50	1.393	0.148	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	21350/2560	1:1	0.204	0.105	0.02	20.51	22.00	0.009	0.002	22.3
Back side	20	QPSK 1_50	21350/2560	1:1	0.193	0.105	-0.18	20.51	22.00	1.409	0.272	22.3
Left side	20	QPSK 1_50	21350/2560	1:1	0.063	0.020	0.02	20.51	22.00	1.409	0.089	22.3
Right side	20	QPSK 1_50	21350/2560	1:1	0.090	0.048	0.01	20.51	22.00	1.409	0.127	22.3
Bottom side	20	QPSK 1_50	21350/2560	1:1	0.222	0.095	0.02	20.51	22.00	1.409	0.313	22.3
Bottom side	20	QPSK PCC 1_0	21350/2560	1:1	0.214	0.092	0.12	20.84	22.00	1.306	0.280	22.4
		QPSK SCC 0_0	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	21350/2560	1:1	0.192	0.104	0.13	20.62	22.00	1.374	0.264	22.3
Back side	20	QPSK 50_25	21350/2560	1:1	0.192	0.101	0.01	20.62	22.00	1.374	0.264	22.3
Left side	20	QPSK 50_25	21350/2560	1:1	0.039	0.013	0.09	20.62	22.00	1.374	0.054	22.3
Right side	20	QPSK 50_25	21350/2560	1:1	0.087	0.047	-0.07	20.62	22.00	1.374	0.120	22.3
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.211	0.096	0.16	20.62	22.00	1.374	0.290	22.3
Ant 11 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.270	0.127	0.02	18.15	19.50	1.365	0.368	22.1
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.080	0.045	0.17	18.15	19.50	1.365	0.109	22.1



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Right cheek	20	QPSK 1_50	21100/2535	1:1	0.526	0.237	0.09	18.15	19.50	1.365	0.718	22.1
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.129	0.070	-0.02	18.15	19.50	1.365	0.176	22.1
Right cheek	20	QPSK PCC 1_0	21100/2535	1:1	0.560	0.250	0.02	18.74	19.50	1.191	0.667	22.4
		QPSK SCC 0_0	21298/2554.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.198	0.097	-0.03	18.27	19.50	1.327	0.263	22.1
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.080	0.044	0.07	18.27	19.50	1.327	0.106	22.1
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.457	0.217	-0.07	18.27	19.50	1.327	0.607	22.1
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.123	0.068	0.11	18.27	19.50	1.327	0.163	22.1
Head Test Data (1RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.270	0.127	0.02	18.15	19.00	1.216	0.328	22.1
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.080	0.045	0.17	18.15	19.00	1.216	0.097	22.1
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.526	0.237	0.09	18.15	19.00	1.216	0.640	22.1
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.129	0.070	-0.02	18.15	19.00	1.216	0.157	22.1
Head Test Data (50%RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.198	0.097	-0.03	18.27	19.00	1.183	0.234	22.1
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.080	0.044	0.07	18.27	19.00	1.183	0.095	22.1
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.457	0.217	-0.07	18.27	19.00	1.183	0.541	22.1
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.123	0.068	0.11	18.27	19.00	1.183	0.146	22.1
Head Test Data (1RB) DSI 3 with Inter-band ULCA												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.270	0.127	0.02	18.15	16.00	0.610	0.165	22.1
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.080	0.045	0.17	18.15	16.00	0.610	0.049	22.1
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.526	0.237	0.09	18.15	16.00	0.610	0.321	22.1
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.129	0.070	-0.02	18.15	16.00	0.610	0.079	22.1
Head Test Data (50%RB) DSI 3 with Inter-band ULCA												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.198	0.097	-0.03	18.27	16.00	0.593	0.117	22.1
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.080	0.044	0.07	18.27	16.00	0.593	0.047	22.1
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.457	0.217	-0.07	18.27	16.00	0.593	0.271	22.1
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.123	0.068	0.11	18.27	16.00	0.593	0.073	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	21100/2535	1:1	0.152	0.080	-0.06	22.17	23.50	1.358	0.206	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.274	0.141	0.12	22.17	23.50	1.358	0.372	22.1
Back side	20	QPSK PCC 1_0	21100/2535	1:1	0.259	0.126	-0.09	21.95	23.50	1.429	0.370	22.4
		QPSK SCC 0_0	21298/2554.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	21100/2535	1:1	0.135	0.068	-0.04	21.25	22.50	1.334	0.180	22.1
Back side	20	QPSK 50_0	21100/2535	1:1	0.239	0.119	0.14	21.25	22.50	1.334	0.319	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	20850/2510	1:1	0.078	0.040	-0.13	16.73	18.00	1.340	0.104	22.1
Back side	20	QPSK 1_99	20850/2510	1:1	0.164	0.074	-0.12	16.73	18.00	1.340	0.220	22.1
Left side	20	QPSK 1_99	20850/2510	1:1	0.177	0.076	-0.04	16.73	18.00	1.340	0.237	22.1
Top side	20	QPSK 1_99	20850/2510	1:1	0.050	0.022	0.12	16.73	18.00	1.340	0.067	22.1



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Left side	20	QPSK PCC 1 0	20850/2510	1:1	0.183	0.078	0.01	17.32	18.00	1.169	0.214	22.4
		QPSK SCC 0 0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	20850/2510	1:1	0.082	0.040	-0.18	16.75	18.00	1.334	0.109	22.1
Back side	20	QPSK 50_0	20850/2510	1:1	0.172	0.074	0.17	16.75	18.00	1.334	0.229	22.1
Left side	20	QPSK 50_0	20850/2510	1:1	0.152	0.069	-0.08	16.75	18.00	1.334	0.203	22.1
Top side	20	QPSK 50_0	20850/2510	1:1	0.040	0.022	-0.16	16.75	18.00	1.334	0.053	22.1

Table 17 : SAR of LTE Band 7 for Head, Body and Hotspot.



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8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_25	23095/707.5	1:1	0.253	0.168	-0.04	21.40	22.50	1.288	0.326	22.3
Left tilted	10	QPSK 1_25	23095/707.5	1:1	0.236	0.152	0.03	21.40	22.50	1.288	0.304	22.3
Right cheek	10	QPSK 1_25	23095/707.5	1:1	0.440	0.258	0.02	21.40	22.50	1.288	0.567	22.3
Right tilted	10	QPSK 1_25	23095/707.5	1:1	0.279	0.178	0.05	21.40	22.50	1.288	0.359	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_13	23060/704	1:1	0.239	0.159	-0.06	21.48	22.50	1.265	0.302	22.3
Left tilted	10	QPSK 25_13	23060/704	1:1	0.233	0.150	-0.02	21.48	22.50	1.265	0.295	22.3
Right cheek	10	QPSK 25_13	23060/704	1:1	0.440	0.257	0.08	21.48	22.50	1.265	0.556	22.3
Right tilted	10	QPSK 25_13	23060/704	1:1	0.272	0.174	0.03	21.48	22.50	1.265	0.344	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23130/711	1:1	0.111	0.080	0.03	23.33	24.50	1.309	0.145	22.3
Back side	10	QPSK 1_0	23130/711	1:1	0.150	0.117	-0.10	23.33	24.50	1.309	0.196	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_25	23060/704	1:1	0.088	0.063	0.05	22.53	23.50	1.250	0.110	22.3
Back side	10	QPSK 25_25	23060/704	1:1	0.118	0.085	0.03	22.53	23.50	1.250	0.148	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23130/711	1:1	0.110	0.079	-0.01	23.33	24.50	1.309	0.144	22.5
Back side	10	QPSK 1_0	23130/711	1:1	0.154	0.104	-0.02	23.33	24.50	1.309	0.202	22.5
Left side	10	QPSK 1_0	23130/711	1:1	0.132	0.091	0.12	23.33	24.50	1.309	0.173	22.5
Top side	10	QPSK 1_0	23130/711	1:1	0.080	0.053	0.07	23.33	24.50	1.309	0.104	22.5
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_25	23060/704	1:1	0.088	0.063	0.05	22.53	23.50	1.250	0.110	22.5
Back side	10	QPSK 25_25	23060/704	1:1	0.137	0.094	0.03	22.53	23.50	1.250	0.171	22.5
Left side	10	QPSK 25_25	23060/704	1:1	0.104	0.072	0.10	22.53	23.50	1.250	0.130	22.5
Top side	10	QPSK 25_25	23060/704	1:1	0.063	0.042	0.07	22.53	23.50	1.250	0.079	22.5
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23060/704	1:1	0.071	0.057	-0.07	23.25	24.50	1.334	0.095	22.3
Left tilted	10	QPSK 1_0	23060/704	1:1	0.033	0.023	0.02	23.25	24.50	1.334	0.044	22.3
Right cheek	10	QPSK 1_0	23060/704	1:1	0.054	0.043	0.06	23.25	24.50	1.334	0.072	22.3
Right tilted	10	QPSK 1_0	23060/704	1:1	0.030	0.021	0.03	23.25	24.50	1.334	0.039	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_0	23060/704	1:1	0.053	0.038	0.01	22.42	23.50	1.282	0.068	22.3



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Left tilted	10	QPSK 25_0	23060/704	1:1	0.026	0.019	0.02	22.42	23.50	1.282	0.034	22.3
Right cheek	10	QPSK 25_0	23060/704	1:1	0.042	0.030	-0.09	22.42	23.50	1.282	0.054	22.3
Right tilted	10	QPSK 25_0	23060/704	1:1	0.024	0.017	0.01	22.42	23.50	1.282	0.030	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23060/704	1:1	0.083	0.059	0.07	23.25	24.50	1.334	0.110	22.3
Back side	10	QPSK 1_0	23060/704	1:1	0.105	0.082	-0.06	23.25	24.50	1.334	0.140	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23060/704	1:1	0.070	0.050	0.10	22.42	23.50	1.282	0.090	22.3
Back side	10	QPSK 25_0	23060/704	1:1	0.079	0.056	0.03	22.42	23.50	1.282	0.101	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23060/704	1:1	0.082	0.059	0.03	23.25	24.50	1.334	0.109	22.3
Back side	10	QPSK 1_0	23060/704	1:1	0.107	0.084	0.02	23.25	24.50	1.334	0.143	22.3
Left side	10	QPSK 1_0	23060/704	1:1	0.139	0.097	0.05	23.25	24.50	1.334	0.185	22.3
Right side	10	QPSK 1_0	23060/704	1:1	0.085	0.059	0.01	23.25	24.50	1.334	0.113	22.3
Bottom side	10	QPSK 1_0	23060/704	1:1	0.049	0.029	0.06	23.25	24.50	1.334	0.065	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23060/704	1:1	0.067	0.048	0.03	22.42	23.50	1.282	0.085	22.3
Back side	10	QPSK 25_0	23060/704	1:1	0.084	0.060	0.05	22.42	23.50	1.282	0.107	22.3
Left side	10	QPSK 25_0	23060/704	1:1	0.112	0.077	0.03	22.42	23.50	1.282	0.144	22.3
Right side	10	QPSK 25_0	23060/704	1:1	0.068	0.047	-0.09	22.42	23.50	1.282	0.087	22.3
Bottom side	10	QPSK 25_0	23060/704	1:1	0.040	0.024	0.01	22.42	23.50	1.282	0.051	22.3

Table 18 : SAR of LTE Band 12 for Head, Body and Hotspot.



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8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_25	23230/782	1:1	0.259	0.172	-0.01	21.89	23.00	1.291	0.334	22.3
Left tilted	10	QPSK 1_25	23230/782	1:1	0.244	0.159	-0.11	21.89	23.00	1.291	0.315	22.3
Right cheek	10	QPSK 1_25	23230/782	1:1	0.419	0.250	0.03	21.89	23.00	1.291	0.541	22.3
Right tilted	10	QPSK 1_25	23230/782	1:1	0.272	0.172	0.09	21.89	23.00	1.291	0.351	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_25	23230/782	1:1	0.258	0.172	0.01	21.94	23.00	1.276	0.329	22.3
Left tilted	10	QPSK 25_25	23230/782	1:1	0.241	0.157	0.02	21.94	23.00	1.276	0.308	22.3
Right cheek	10	QPSK 25_25	23230/782	1:1	0.418	0.249	0.02	21.94	23.00	1.276	0.534	22.3
Right tilted	10	QPSK 25_25	23230/782	1:1	0.270	0.171	0.05	21.94	23.00	1.276	0.345	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23230/782	1:1	0.120	0.086	0.03	22.89	24.00	1.291	0.155	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.158	0.124	0.01	22.89	24.00	1.291	0.204	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_13	23230/782	1:1	0.092	0.065	0.01	21.96	23.00	1.271	0.117	22.3
Back side	10	QPSK 25_13	23230/782	1:1	0.118	0.084	0.05	21.96	23.00	1.271	0.150	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23230/782	1:1	0.112	0.080	-0.02	22.89	24.00	1.291	0.145	22.5
Back side	10	QPSK 1_0	23230/782	1:1	0.161	0.126	-0.09	22.89	24.00	1.291	0.208	22.5
Left side	10	QPSK 1_0	23230/782	1:1	0.121	0.083	0.06	22.89	24.00	1.291	0.156	22.5
Top side	10	QPSK 1_0	23230/782	1:1	0.057	0.038	0.04	22.89	24.00	1.291	0.073	22.5
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_13	23230/782	1:1	0.085	0.061	-0.09	21.96	23.00	1.271	0.108	22.5
Back side	10	QPSK 25_13	23230/782	1:1	0.114	0.082	0.02	21.96	23.00	1.271	0.145	22.5
Left side	10	QPSK 25_13	23230/782	1:1	0.093	0.064	0.11	21.96	23.00	1.271	0.118	22.5
Top side	10	QPSK 25_13	23230/782	1:1	0.058	0.038	0.05	21.96	23.00	1.271	0.073	22.5
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.080	0.056	0.03	22.62	24.00	1.374	0.110	22.3
Left tilted	10	QPSK 1_0	23230/782	1:1	0.040	0.028	0.01	22.62	24.00	1.374	0.055	22.3
Right cheek	10	QPSK 1_0	23230/782	1:1	0.067	0.047	0.08	22.62	24.00	1.374	0.091	22.3
Right tilted	10	QPSK 1_0	23230/782	1:1	0.036	0.025	0.04	22.62	24.00	1.374	0.049	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.063	0.044	0.01	21.75	23.00	1.334	0.083	22.3



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Left tilted	10	QPSK 25_0	23230/782	1:1	0.031	0.022	0.02	21.75	23.00	1.334	0.042	22.3
Right cheek	10	QPSK 25_0	23230/782	1:1	0.052	0.036	-0.11	21.75	23.00	1.334	0.069	22.3
Right tilted	10	QPSK 25_0	23230/782	1:1	0.028	0.020	0.03	21.75	23.00	1.334	0.037	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23230/782	1:1	0.098	0.070	0.03	22.62	24.00	1.374	0.135	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.107	0.083	0.05	22.62	24.00	1.374	0.147	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23230/782	1:1	0.076	0.054	0.08	21.75	23.00	1.334	0.101	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.080	0.057	0.03	21.75	23.00	1.334	0.106	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23230/782	1:1	0.089	0.063	0.03	22.62	24.00	1.374	0.122	22.3
Back side	10	QPSK 1_0	23230/782	1:1	0.112	0.080	0.06	22.62	24.00	1.374	0.154	22.3
Left side	10	QPSK 1_0	23230/782	1:1	0.135	0.093	0.08	22.62	24.00	1.374	0.185	22.3
Right side	10	QPSK 1_0	23230/782	1:1	0.070	0.048	0.12	22.62	24.00	1.374	0.095	22.3
Bottom side	10	QPSK 1_0	23230/782	1:1	0.130	0.077	0.05	22.62	24.00	1.374	0.179	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23230/782	1:1	0.069	0.049	0.03	21.75	23.00	1.334	0.092	22.3
Back side	10	QPSK 25_0	23230/782	1:1	0.102	0.066	0.11	21.75	23.00	1.334	0.136	22.3
Left side	10	QPSK 25_0	23230/782	1:1	0.106	0.072	0.05	21.75	23.00	1.334	0.141	22.3
Right side	10	QPSK 25_0	23230/782	1:1	0.055	0.037	0.01	21.75	23.00	1.334	0.073	22.3
Bottom side	10	QPSK 25_0	23230/782	1:1	0.105	0.063	0.03	21.75	23.00	1.334	0.140	22.3

Table 19 : SAR of LTE Band 13 for Head, Body and Hotspot.



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8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	15	QPSK 1_0	26765/821.5	1:1	0.280	0.185	-0.02	19.60	21.00	1.380	0.387	22.3
Left tilted	15	QPSK 1_0	26765/821.5	1:1	0.286	0.184	-0.01	19.60	21.00	1.380	0.395	22.3
Right cheek	15	QPSK 1_0	26765/821.5	1:1	0.436	0.260	0.04	19.60	21.00	1.380	0.602	22.3
Right tilted	15	QPSK 1_0	26765/821.5	1:1	0.283	0.178	0.03	19.60	21.00	1.380	0.391	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	15	QPSK 36_39	26965/841.5	1:1	0.307	0.203	-0.04	19.78	21.00	1.324	0.407	22.3
Left tilted	15	QPSK 36_39	26965/841.5	1:1	0.304	0.195	0.02	19.78	21.00	1.324	0.403	22.3
Right cheek	15	QPSK 36_39	26965/841.5	1:1	0.474	0.283	-0.02	19.78	21.00	1.324	0.628	22.3
Right tilted	15	QPSK 36_39	26965/841.5	1:1	0.327	0.205	0.05	19.78	21.00	1.324	0.433	22.3
Head Test Data (1RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	15	QPSK 1_0	26765/821.5	1:1	0.280	0.185	-0.02	19.60	20.00	1.096	0.307	22.3
Left tilted	15	QPSK 1_0	26765/821.5	1:1	0.286	0.184	-0.01	19.60	20.00	1.096	0.314	22.3
Right cheek	15	QPSK 1_0	26765/821.5	1:1	0.436	0.260	0.04	19.60	20.00	1.096	0.478	22.3
Right tilted	15	QPSK 1_0	26765/821.5	1:1	0.283	0.178	0.03	19.60	20.00	1.096	0.310	22.3
Head Test Data (50%RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	15	QPSK 36_39	26965/841.5	1:1	0.307	0.203	-0.04	19.78	20.00	1.052	0.323	22.3
Left tilted	15	QPSK 36_39	26965/841.5	1:1	0.304	0.195	0.02	19.78	20.00	1.052	0.320	22.3
Right cheek	15	QPSK 36_39	26965/841.5	1:1	0.474	0.283	-0.02	19.78	20.00	1.052	0.499	22.3
Right tilted	15	QPSK 36_39	26965/841.5	1:1	0.327	0.205	0.05	19.78	20.00	1.052	0.344	22.3
Head Test Data (1RB) DSI 3 with Inter-band ULCA												
Left cheek	15	QPSK 1_0	26765/821.5	1:1	0.280	0.185	-0.02	19.60	17.00	0.550	0.154	22.3
Left tilted	15	QPSK 1_0	26765/821.5	1:1	0.286	0.184	-0.01	19.60	17.00	0.550	0.157	22.3
Right cheek	15	QPSK 1_0	26765/821.5	1:1	0.436	0.260	0.04	19.60	17.00	0.550	0.240	22.3
Right tilted	15	QPSK 1_0	26765/821.5	1:1	0.283	0.178	0.03	19.60	17.00	0.550	0.156	22.3
Head Test Data (50%RB) DSI 3 with Inter-band ULCA												
Left cheek	15	QPSK 36_39	26965/841.5	1:1	0.307	0.203	-0.04	19.78	17.00	0.527	0.162	22.3
Left tilted	15	QPSK 36_39	26965/841.5	1:1	0.304	0.195	0.02	19.78	17.00	0.527	0.160	22.3
Right cheek	15	QPSK 36_39	26965/841.5	1:1	0.474	0.283	-0.02	19.78	17.00	0.527	0.250	22.3
Right tilted	15	QPSK 36_39	26965/841.5	1:1	0.327	0.205	0.05	19.78	17.00	0.527	0.172	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	15	QPSK 1_38	26765/821.5	1:1	0.136	0.096	0.03	23.44	25.00	1.432	0.195	22.3
Back side	15	QPSK 1_38	26765/821.5	1:1	0.177	0.137	0.07	23.44	25.00	1.432	0.253	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	15	QPSK 36_0	26765/821.5	1:1	0.109	0.077	0.06	22.56	24.00	1.393	0.152	22.3
Back side	15	QPSK 36_0	26765/821.5	1:1	0.138	0.098	0.02	22.56	24.00	1.393	0.192	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												



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Front side	15	QPSK 1_38	26765/821.5	1:1	0.161	0.110	0.00	23.44	25.00	1.432	0.231	22.5
Back side	15	QPSK 1_38	26765/821.5	1:1	0.201	0.132	-0.14	23.44	25.00	1.432	0.288	22.5
Left side	15	QPSK 1_38	26765/821.5	1:1	0.124	0.085	0.07	23.44	25.00	1.432	0.178	22.5
Top side	15	QPSK 1_38	26765/821.5	1:1	0.172	0.112	0.05	23.44	25.00	1.432	0.246	22.5
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	15	QPSK 36_0	26765/821.5	1:1	0.123	0.084	0.00	22.56	24.00	1.393	0.171	22.5
Back side	15	QPSK 36_0	26765/821.5	1:1	0.157	0.104	-0.09	22.56	24.00	1.393	0.219	22.5
Left side	15	QPSK 36_0	26765/821.5	1:1	0.100	0.068	0.09	22.56	24.00	1.393	0.139	22.5
Top side	15	QPSK 36_0	26765/821.5	1:1	0.130	0.085	0.04	22.56	24.00	1.393	0.181	22.5
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.098	0.068	-0.09	23.45	25.00	1.429	0.140	22.3
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.049	0.034	0.02	23.45	25.00	1.429	0.070	22.3
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.093	0.065	0.06	23.45	25.00	1.429	0.133	22.3
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.045	0.031	0.01	23.45	25.00	1.429	0.064	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.086	0.059	0.03	22.53	24.00	1.403	0.120	22.3
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.042	0.030	0.01	22.53	24.00	1.403	0.059	22.3
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.082	0.057	0.09	22.53	24.00	1.403	0.116	22.3
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.038	0.026	-0.05	22.53	24.00	1.403	0.053	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.089	0.063	-0.03	23.45	25.00	1.429	0.127	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.087	0.067	0.00	23.45	25.00	1.429	0.125	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.075	0.053	0.00	22.53	24.00	1.403	0.105	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.073	0.051	0.05	22.53	24.00	1.403	0.102	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	15	QPSK 1_38	26965/841.5	1:1	0.105	0.068	0.03	22.46	24.00	1.426	0.150	22.3
Back side	15	QPSK 1_38	26965/841.5	1:1	0.162	0.099	0.06	22.46	24.00	1.426	0.231	22.3
Left side	15	QPSK 1_38	26965/841.5	1:1	0.140	0.095	0.08	22.46	24.00	1.426	0.200	22.3
Right side	15	QPSK 1_38	26965/841.5	1:1	0.073	0.050	0.01	22.46	24.00	1.426	0.104	22.3
Bottom side	15	QPSK 1_38	26965/841.5	1:1	0.164	0.098	0.03	22.46	24.00	1.426	0.234	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	15	QPSK 36_39	26765/821.5	1:1	0.108	0.069	0.03	22.54	24.00	1.400	0.151	22.3
Back side	15	QPSK 36_39	26765/821.5	1:1	0.166	0.107	0.09	22.54	24.00	1.400	0.232	22.3
Left side	15	QPSK 36_39	26765/821.5	1:1	0.135	0.092	0.06	22.54	24.00	1.400	0.189	22.3
Right side	15	QPSK 36_39	26765/821.5	1:1	0.092	0.063	0.05	22.54	24.00	1.400	0.129	22.3
Bottom side	15	QPSK 36_39	26765/821.5	1:1	0.170	0.099	0.05	22.54	24.00	1.400	0.238	22.3

Table 20 : SAR of LTE Band 26 for Head, Body and Hotspot.



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8.2.11 SAR Result of LTE Band 38

LTE Band 38 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	38000/2595	1:1.5 8	0.118	0.054	-0.04	14.31	15.50	1.315	0.155	22.1
Left tilted	20	QPSK 1_0	38000/2595	1:1.5 8	0.170	0.078	-0.13	14.31	15.50	1.315	0.224	22.1
Right cheek	20	QPSK 1_0	38000/2595	1:1.5 8	0.299	0.120	-0.08	14.31	15.50	1.315	0.393	22.1
Right tilted	20	QPSK 1_0	38000/2595	1:1.5 8	0.394	0.159	0.08	14.31	15.50	1.315	0.518	22.1
Right tilted	20	QPSK PCC 1_0	38099/2604.8	1:1.5 8	0.367	0.140	0.02	14.21	15.50	1.346	0.494	22.4
		QPSK SCC 0_0	37901/2585.1									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	37850/2580	1:1.5 8	0.123	0.057	-0.02	14.44	15.50	1.276	0.157	22.1
Left tilted	20	QPSK 50_25	37850/2580	1:1.5 8	0.182	0.084	-0.01	14.44	15.50	1.276	0.232	22.1
Right cheek	20	QPSK 50_25	37850/2580	1:1.5 8	0.309	0.127	0.09	14.44	15.50	1.276	0.394	22.1
Right tilted	20	QPSK 50_25	37850/2580	1:1.5 8	0.418	0.170	0.06	14.44	15.50	1.276	0.534	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	37850/2580	1:1.5 8	0.124	0.064	-0.08	20.42	21.50	1.282	0.159	22.3
Back side	20	QPSK 1_50	37850/2580	1:1.5 8	0.450	0.210	0.00	20.42	21.50	1.282	0.577	22.3
Back side	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.421	0.198	0.04	20.26	21.50	1.330	0.560	22.4
		QPSK SCC 0_0	38048/2599.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	37850/2580	1:1.5 8	0.124	0.061	-0.01	20.44	21.50	1.276	0.158	22.3
Back side	20	QPSK 50_25	37850/2580	1:1.5 8	0.515	0.245	0.06	20.44	21.50	1.276	0.657	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4 with ENDC												
Front side	20	QPSK 1_50	37850/2580	1:1.5 8	0.124	0.064	-0.08	20.42	20.50	1.019	0.126	22.3
Back side	20	QPSK 1_50	37850/2580	1:1.5 8	0.450	0.210	0.00	20.42	20.50	1.019	0.458	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4 with ENDC												
Front side	20	QPSK 50_25	37850/2580	1:1.5 8	0.124	0.061	-0.01	20.44	20.50	1.014	0.126	22.3
Back side	20	QPSK 50_25	37850/2580	1:1.5 8	0.515	0.245	0.06	20.44	20.50	1.014	0.522	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	37850/2580	1:1.5 8	0.110	0.050	0.09	16.41	17.50	1.285	0.141	22.3



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Back side	20	QPSK 1_50	37850/2580	1:1.5 8	0.420	0.181	0.04	16.41	17.50	1.285	0.540	22.3
Left side	20	QPSK 1_50	37850/2580	1:1.5 8	0.052	0.028	-0.01	16.41	17.50	1.285	0.067	22.3
Top side	20	QPSK 1_50	37850/2580	1:1.5 8	0.383	0.164	0.05	16.41	17.50	1.285	0.492	22.3
Back side	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.391	0.173	0.09	16.13	17.50	1.371	0.536	22.4
		QPSK SCC 0_0	38048/2599.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	37850/2580	1:1.5 8	0.108	0.051	0.05	16.46	17.50	1.271	0.137	22.3
Back side	20	QPSK 50_25	37850/2580	1:1.5 8	0.460	0.198	-0.02	16.46	17.50	1.271	0.584	22.3
Left side	20	QPSK 50_25	37850/2580	1:1.5 8	0.055	0.029	0.02	16.46	17.50	1.271	0.070	22.3
Top side	20	QPSK 50_25	37850/2580	1:1.5 8	0.373	0.156	-0.13	16.46	17.50	1.271	0.474	22.3
Ant 31 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	37850/2580	1:1.5 8	0.089	0.051	0.16	23.92	24.50	1.143	0.102	22.1
Left tilted	20	QPSK 1_0	37850/2580	1:1.5 8	0.055	0.031	-0.16	23.92	24.50	1.143	0.063	22.1
Right cheek	20	QPSK 1_0	37850/2580	1:1.5 8	0.162	0.089	-0.04	23.92	24.50	1.143	0.185	22.1
Right tilted	20	QPSK 1_0	37850/2580	1:1.5 8	0.075	0.041	-0.02	23.92	24.50	1.143	0.086	22.1
Right cheek	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.143	0.083	-0.07	23.45	24.50	1.274	0.182	22.4
		QPSK SCC 0_0	38048/2599.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	37850/2580	1:1.5 8	0.073	0.042	0.16	22.93	23.50	1.140	0.083	22.1
Left tilted	20	QPSK 50_0	37850/2580	1:1.5 8	0.045	0.025	-0.05	22.93	23.50	1.140	0.051	22.1
Right cheek	20	QPSK 50_0	37850/2580	1:1.5 8	0.119	0.062	-0.06	22.93	23.50	1.140	0.136	22.1
Right tilted	20	QPSK 50_0	37850/2580	1:1.5 8	0.065	0.035	-0.10	22.93	23.50	1.140	0.074	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	37850/2580	1:1.5 8	0.132	0.070	-0.03	23.92	24.50	1.143	0.151	22.3
Back side	20	QPSK 1_0	37850/2580	1:1.5 8	0.115	0.063	0.16	23.92	24.50	1.143	0.131	22.3
Front side	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.117	0.064	0.12	23.45	24.50	1.274	0.149	22.4
		QPSK SCC 0_0	38048/2599.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	37850/2580	1:1.5 8	0.111	0.062	-0.06	22.93	23.50	1.140	0.127	22.3



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Back side	20	QPSK 50_0	37850/2580	1:1.5 8	0.093	0.051	-0.01	22.93	23.50	1.140	0.106	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	37850/2580	1:1.5 8	0.267	0.138	0.07	23.92	24.50	1.143	0.305	22.3
Back side	20	QPSK 1_0	37850/2580	1:1.5 8	0.239	0.135	0.04	23.92	24.50	1.143	0.273	22.3
Left side	20	QPSK 1_0	37850/2580	1:1.5 8	0.067	0.020	-0.02	23.92	24.50	1.143	0.077	22.3
Right side	20	QPSK 1_0	37850/2580	1:1.5 8	0.149	0.081	0.07	23.92	24.50	1.143	0.170	22.3
Bottom side	20	QPSK 1_0	37850/2580	1:1.5 8	0.265	0.120	0.03	23.92	24.50	1.143	0.303	22.3
Front side	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.232	0.131	0.06	23.45	24.50	1.274	0.295	22.4
		QPSK SCC 0_0	38048/2599.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	37850/2580	1:1.5 8	0.202	0.110	0.08	22.93	23.50	1.140	0.230	22.3
Back side	20	QPSK 50_0	37850/2580	1:1.5 8	0.205	0.109	-0.07	22.93	23.50	1.140	0.234	22.3
Left side	20	QPSK 50_0	37850/2580	1:1.5 8	0.041	0.020	-0.17	22.93	23.50	1.140	0.047	22.3
Right side	20	QPSK 50_0	37850/2580	1:1.5 8	0.115	0.063	0.16	22.93	23.50	1.140	0.131	22.3
Bottom side	20	QPSK 50_0	37850/2580	1:1.5 8	0.231	0.098	0.00	22.93	23.50	1.140	0.263	22.3
Ant 11 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	37850/2580	1:1.5 8	0.239	0.114	0.12	20.39	21.50	1.291	0.309	22.1
Left tilted	20	QPSK 1_0	37850/2580	1:1.5 8	0.062	0.033	-0.12	20.39	21.50	1.291	0.080	22.1
Right cheek	20	QPSK 1_0	37850/2580	1:1.5 8	0.505	0.203	0.03	20.39	21.50	1.291	0.652	22.1
Right tilted	20	QPSK 1_0	37850/2580	1:1.5 8	0.125	0.068	0.12	20.39	21.50	1.291	0.161	22.1
Right cheek	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.480	0.237	0.05	20.18	21.50	1.355	0.650	22.4
		QPSK SCC 0_0	38048/2599.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	37850/2580	1:1.5 8	0.232	0.110	-0.12	20.50	21.50	1.259	0.292	22.1
Left tilted	20	QPSK 50_0	37850/2580	1:1.5 8	0.072	0.039	-0.18	20.50	21.50	1.259	0.091	22.1
Right cheek	20	QPSK 50_0	37850/2580	1:1.5 8	0.517	0.238	0.09	20.50	21.50	1.259	0.651	22.1
Right tilted	20	QPSK 50_0	37850/2580	1:1.5 8	0.127	0.068	0.00	20.50	21.50	1.259	0.160	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	37850/2580	1:1.5 8	0.163	0.078	0.08	23.67	25.00	1.358	0.221	22.3



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Back side	20	QPSK 1_0	37850/2580	1:1.5 8	0.333	0.160	-0.08	23.67	25.00	1.358	0.452	22.3
Back side	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.304	0.145	-0.02	23.32	25.00	1.472	0.448	22.4
		QPSK SCC 0_0	38048/2599.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	37850/2580	1:1.5 8	0.130	0.067	-0.14	22.81	24.00	1.315	0.171	22.3
Back side	20	QPSK 50_0	37850/2580	1:1.5 8	0.275	0.130	0.17	22.81	24.00	1.315	0.362	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	37850/2580	1:1.5 8	0.127	0.056	0.03	19.36	20.50	1.300	0.165	22.3
Back side	20	QPSK 1_0	37850/2580	1:1.5 8	0.254	0.117	0.06	19.36	20.50	1.300	0.330	22.3
Left side	20	QPSK 1_0	37850/2580	1:1.5 8	0.378	0.161	-0.01	19.36	20.50	1.300	0.491	22.3
Top side	20	QPSK 1_0	37850/2580	1:1.5 8	0.033	0.011	-0.02	19.36	20.50	1.300	0.043	22.3
Left side	20	QPSK PCC 1_0	37850/2580	1:1.5 8	0.382	0.162	-0.09	19.93	20.50	1.140	0.436	22.4
		QPSK SCC 0_0	38048/2599.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	37850/2580	1:1.5 8	0.132	0.061	0.17	19.36	20.50	1.300	0.172	22.3
Back side	20	QPSK 50_0	37850/2580	1:1.5 8	0.286	0.123	-0.16	19.36	20.50	1.300	0.372	22.3
Left side	20	QPSK 50_0	37850/2580	1:1.5 8	0.384	0.164	-0.13	19.36	20.50	1.300	0.499	22.3
Top side	20	QPSK 50_0	37850/2580	1:1.5 8	0.004	0.002	-0.03	19.36	20.50	1.300	0.005	22.3
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	20	QPSK 1_0	37850/2580	1:1.5 8	4.740	1.570	-0.14	20.39	21.50	1.291	2.027	22.1
Left side	20	QPSK 1_0	38000/2595	1:1.5 8	4.730	1.600	0.03	20.35	21.50	1.303	2.085	22.1
Left side	20	QPSK 1_99	38150/2610	1:1.5 8	4.530	1.580	0.04	20.33	21.50	1.309	2.069	22.1
Left side	20	QPSK PCC 1_0	38099/2604.8	1:1.5 8	4.290	1.480	0.07	20.07	21.50	1.390	2.057	22.4
		QPSK SCC 0_0	37901/2585.1									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	20	QPSK 50_0	37850/2580	1:1.5 8	5.050	1.670	-0.04	20.50	21.50	1.259	2.102	22.1
Left side	20	QPSK 50_0	38000/2595	1:1.5 8	5.830	1.840	-0.16	20.42	21.50	1.282	2.359	22.1
Left side	20	QPSK 50_25	38150/2610	1:1.5 8	4.840	1.660	-0.09	20.40	21.50	1.288	2.138	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Left side	20	QPSK 100_0	37850/2580	1:1.5	4.730	1.540	-0.05	20.45	21.50	1.274	1.961	22.1



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				8								
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Left side 17mm	20	QPSK 1_0	37850/2580	1:1.5 8	0.531	0.252	-0.07	23.67	25.00	1.358	0.342	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Left side 17mm	20	QPSK 50_0	37850/2580	1:1.5 8	0.426	0.202	-0.11	22.81	24.00	1.315	0.266	22.1

Table 21 : SAR of LTE Band 38 for Head, Body and Hotspot.



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8.2.12 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.075	0.035	-0.05	14.58	15.50	1.236	0.093	22.1
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.101	0.046	0.08	14.58	15.50	1.236	0.125	22.1
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.183	0.075	0.15	14.58	15.50	1.236	0.226	22.1
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.239	0.097	-0.09	14.58	15.50	1.236	0.295	22.1
Right tilted	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.215	0.091	-0.02	14.29	15.50	1.321	0.284	22.3
		QPSK SCC 0_0	40383/2569.3									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	40185/2549.5	1:1.58	0.068	0.033	0.18	14.61	15.50	1.227	0.083	22.1
Left tilted	20	QPSK 50_25	40185/2549.5	1:1.58	0.098	0.045	0.11	14.61	15.50	1.227	0.120	22.1
Right cheek	20	QPSK 50_25	40185/2549.5	1:1.58	0.180	0.072	-0.01	14.61	15.50	1.227	0.221	22.1
Right tilted	20	QPSK 50_25	40185/2549.5	1:1.58	0.243	0.096	-0.01	14.61	15.50	1.227	0.298	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	40185/2549.5	1:1.58	0.064	0.031	0.04	20.81	21.50	1.172	0.075	22.3
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.228	0.105	0.19	20.81	21.50	1.172	0.267	22.3
Back side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.202	0.093	0.13	20.35	21.50	1.303	0.263	22.3
		QPSK SCC 0_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	40185/2549.5	1:1.58	0.064	0.032	-0.09	20.89	21.50	1.151	0.074	22.3
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.226	0.104	-0.06	20.89	21.50	1.151	0.260	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	40185/2549.5	1:1.58	0.049	0.023	0.03	16.07	17.00	1.239	0.061	22.3
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	0.242	0.104	0.09	16.07	17.00	1.239	0.300	22.3
Left side	20	QPSK 1_50	40185/2549.5	1:1.58	0.033	0.011	0.14	16.07	17.00	1.239	0.041	22.3
Top side	20	QPSK 1_50	40185/2549.5	1:1.58	0.190	0.079	-0.16	16.07	17.00	1.239	0.235	22.3
Back side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.217	0.096	-0.02	15.66	17.00	1.361	0.295	22.3
		QPSK SCC 0_0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	40185/2549.5	1:1.58	0.055	0.025	-0.05	16.20	17.00	1.202	0.066	22.3
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.208	0.082	-0.03	16.20	17.00	1.202	0.250	22.3
Left side	20	QPSK 50_0	40185/2549.5	1:1.58	0.031	0.010	0.08	16.20	17.00	1.202	0.037	22.3
Top side	20	QPSK 50_0	40185/2549.5	1:1.58	0.206	0.086	0.07	16.20	17.00	1.202	0.248	22.3
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												



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Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.105	0.061	0.15	24.27	25.00	1.183	0.124	22.1
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.054	0.031	0.06	24.27	25.00	1.183	0.064	22.1
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.151	0.085	0.16	24.27	25.00	1.183	0.179	22.1
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.086	0.047	0.04	24.27	25.00	1.183	0.102	22.1
Right cheek	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.124	0.079	0.11	23.62	25.00	1.374	0.170	22.3
		QPSK SCC 0_0	40383/2569.3									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.088	0.050	-0.10	23.42	24.00	1.143	0.101	22.1
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.053	0.030	-0.06	23.42	24.00	1.143	0.061	22.1
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.136	0.074	-0.07	23.42	24.00	1.143	0.155	22.1
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.069	0.037	0.06	23.42	24.00	1.143	0.079	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	40185/2549.5	1:1.58	0.109	0.061	-0.13	23.12	24.00	1.225	0.133	22.3
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.091	0.052	-0.05	23.12	24.00	1.225	0.111	22.3
Front side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.093	0.055	-0.01	22.87	24.00	1.297	0.121	22.3
		QPSK SCC 0_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	40185/2549.5	1:1.58	0.110	0.059	0.14	23.22	24.00	1.197	0.132	22.3
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.103	0.057	0.19	23.22	24.00	1.197	0.123	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	40185/2549.5	1:1.58	0.164	0.088	-0.13	22.21	23.00	1.199	0.197	22.3
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.170	0.094	-0.10	22.21	23.00	1.199	0.204	22.3
Left side	20	QPSK 1_0	40185/2549.5	1:1.58	0.003	0.001	-0.09	22.21	23.00	1.199	0.004	22.3
Right side	20	QPSK 1_0	40185/2549.5	1:1.58	0.085	0.048	-0.02	22.21	23.00	1.199	0.102	22.3
Bottom side	20	QPSK 1_0	40185/2549.5	1:1.58	0.188	0.087	0.17	22.21	23.00	1.199	0.226	22.3
Bottom side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.175	0.081	0.03	21.98	23.00	1.265	0.221	22.3
		QPSK SCC 0_0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	40185/2549.5	1:1.58	0.166	0.084	0.02	22.20	23.00	1.202	0.200	22.3
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.176	0.094	0.18	22.20	23.00	1.202	0.212	22.3
Left side	20	QPSK 50_0	40185/2549.5	1:1.58	0.029	0.007	-0.04	22.20	23.00	1.202	0.035	22.3
Right side	20	QPSK 50_0	40185/2549.5	1:1.58	0.054	0.015	-0.16	22.20	23.00	1.202	0.065	22.3
Bottom side	20	QPSK 50_0	40185/2549.5	1:1.58	0.172	0.075	0.13	22.20	23.00	1.202	0.207	22.3
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	39750/2506	1:1.58	0.153	0.080	-0.11	21.05	21.50	1.109	0.170	22.1
Left tilted	20	QPSK 1_50	39750/2506	1:1.58	0.072	0.041	-0.18	21.05	21.50	1.109	0.080	22.1
Right cheek	20	QPSK 1_50	39750/2506	1:1.58	0.360	0.160	0.06	21.05	21.50	1.109	0.399	22.1
Right tilted	20	QPSK 1_50	39750/2506	1:1.58	0.128	0.069	0.03	21.05	21.50	1.109	0.142	22.1
Right cheek	20	QPSK PCC 1_0	39750/2506	1:1.58	0.363	0.172	0.09	21.21	21.50	1.069	0.388	22.3



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		QPSK SCC 0_0	39948/2525.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	39750/2506	1:1.58	0.142	0.075	-0.12	21.16	21.50	1.081	0.154	22.1
Left tilted	20	QPSK 50_25	39750/2506	1:1.58	0.068	0.038	-0.04	21.16	21.50	1.081	0.074	22.1
Right cheek	20	QPSK 50_25	39750/2506	1:1.58	0.365	0.162	0.05	21.16	21.50	1.081	0.395	22.1
Right tilted	20	QPSK 50_25	39750/2506	1:1.58	0.126	0.068	0.01	21.16	21.50	1.081	0.136	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.141	0.073	0.06	24.41	25.00	1.146	0.162	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.235	0.087	-0.07	24.41	25.00	1.146	0.269	22.1
Back side	20	QPSK PCC 1_0	39750/2506	1:1.58	0.202	0.104	-0.03	23.77	25.00	1.327	0.268	22.3
		QPSK SCC 0_0	39948/2525.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.113	0.059	-0.01	23.50	24.00	1.122	0.127	22.1
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.195	0.094	-0.12	23.50	24.00	1.122	0.219	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.074	0.034	0.04	18.50	19.00	1.122	0.083	22.1
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.141	0.066	0.02	18.50	19.00	1.122	0.158	22.1
Left side	20	QPSK 1_99	39750/2506	1:1.58	0.165	0.072	-0.06	18.50	19.00	1.122	0.185	22.1
Top side	20	QPSK 1_99	39750/2506	1:1.58	0.059	0.017	0.05	18.50	19.00	1.122	0.066	22.1
Left side	20	QPSK PCC 1_0	39750/2506	1:1.58	0.125	0.056	0.02	18.51	19.00	1.119	0.140	22.3
		QPSK SCC 0_0	39948/2525.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	39750/2506	1:1.58	0.065	0.033	0.10	18.60	19.00	1.096	0.071	22.1
Back side	20	QPSK 50_25	39750/2506	1:1.58	0.132	0.061	0.13	18.60	19.00	1.096	0.145	22.1
Left side	20	QPSK 50_25	39750/2506	1:1.58	0.149	0.066	-0.14	18.60	19.00	1.096	0.163	22.1
Top side	20	QPSK 50_25	39750/2506	1:1.58	0.045	0.013	0.00	18.60	19.00	1.096	0.049	22.1

Table 22 : SAR of LTE Band 41 for Head, Body and Hotspot.



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8.2.13 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.273	0.146	-0.01	15.08	16.50	1.387	0.379	22.3
Left tilted	20	QPSK 1_99	132072/1720	1:1	0.340	0.175	0.10	15.08	16.50	1.387	0.471	22.3
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.491	0.240	0.13	15.08	16.50	1.387	0.681	22.3
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.522	0.234	0.12	15.08	16.50	1.387	0.724	22.3
Right cheek	20	QPSK PCC 1_0	132072/1720	1:1	0.451	0.239	0.03	15.68	16.50	1.208	0.545	22.4
		QPSK SCC 0_0	132270/1739.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	132072/1720	1:1	0.274	0.147	-0.04	15.11	16.50	1.377	0.377	22.3
Left tilted	20	QPSK 50_25	132072/1720	1:1	0.324	0.164	0.05	15.11	16.50	1.377	0.446	22.3
Right cheek	20	QPSK 50_25	132072/1720	1:1	0.568	0.261	0.03	15.11	16.50	1.377	0.782	22.3
Right tilted	20	QPSK 50_25	132072/1720	1:1	0.524	0.235	0.11	15.11	16.50	1.377	0.722	22.3
Head Test Data (1RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.273	0.146	-0.01	15.08	15.50	1.102	0.301	22.3
Left tilted	20	QPSK 1_99	132072/1720	1:1	0.340	0.175	0.10	15.08	15.50	1.102	0.375	22.3
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.491	0.240	0.13	15.08	15.50	1.102	0.541	22.3
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.522	0.234	0.12	15.08	15.50	1.102	0.575	22.3
Head Test Data (50%RB) DSI 2 with Inter-band ULCA&ENDC												
Left cheek	20	QPSK 50_25	132072/1720	1:1	0.274	0.147	-0.04	15.11	15.50	1.094	0.300	22.3
Left tilted	20	QPSK 50_25	132072/1720	1:1	0.324	0.164	0.05	15.11	15.50	1.094	0.354	22.3
Right cheek	20	QPSK 50_25	132072/1720	1:1	0.568	0.261	0.03	15.11	15.50	1.094	0.621	22.3
Right tilted	20	QPSK 50_25	132072/1720	1:1	0.524	0.235	0.11	15.11	15.50	1.094	0.573	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	132072/1720	1:1	0.325	0.191	0.03	23.13	24.50	1.371	0.446	22.1
Back side	20	QPSK 1_99	132072/1720	1:1	0.367	0.217	0.15	23.13	24.50	1.371	0.503	22.1
Back side	20	QPSK PCC 1_0	132072/1720	1:1	0.329	0.194	0.09	22.75	24.50	1.496	0.492	22.4
		QPSK SCC 0_0	132270/1739.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	132572/1770	1:1	0.293	0.171	0.01	22.12	23.50	1.374	0.403	22.1
Back side	20	QPSK 50_25	132572/1770	1:1	0.363	0.210	0.02	22.12	23.50	1.374	0.499	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132322/1745	1:1	0.326	0.187	0.03	19.55	21.00	1.396	0.455	22.1
Back side	20	QPSK 1_99	132322/1745	1:1	0.398	0.223	0.15	19.55	21.00	1.396	0.556	22.1
Left side	20	QPSK 1_99	132322/1745	1:1	0.073	0.042	-0.01	19.55	21.00	1.396	0.102	22.3
Top side	20	QPSK 1_99	132322/1745	1:1	0.557	0.278	-0.06	19.55	21.00	1.396	0.778	22.3



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Top side	20	QPSK PCC 1 0	132322/1745	1:1	0.571	0.286	-0.08	20.12	21.00	1.225	0.699	22.4
		QPSK SCC 0 0	132124/1725. 2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132572/1770	1:1	0.348	0.199	0.02	19.62	21.00	1.374	0.478	22.1
Back side	20	QPSK 50_50	132572/1770	1:1	0.464	0.258	0.12	19.62	21.00	1.374	0.638	22.1
Left side	20	QPSK 50_50	132572/1770	1:1	0.079	0.046	0.13	19.62	21.00	1.374	0.109	22.3
Top side	20	QPSK 50_50	132572/1770	1:1	0.609	0.304	0.19	19.62	21.00	1.374	0.837	22.3
Top side	20	QPSK 50_50	132072/1720	1:1	0.497	0.240	0.07	19.60	21.00	1.380	0.686	22.1
Top side	20	QPSK 50_50	132322/1745	1:1	0.496	0.242	0.02	19.55	21.00	1.396	0.693	22.1
Hotspot Test data (Separate 10mm 100%RB) DSI 10												
Top side	20	QPSK 100_0	132072/1720	1:1	0.577	0.288	0.04	19.57	21.00	1.390	0.802	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg)1 -g	SAR (W/kg)10 -g	Power drift (dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_99	132072/1720	1:1	2.340	1.220	0.01	21.09	22.50	1.384	1.688	22.1
Top side	20	QPSK 1_99	132072/1720	1:1	2.770	1.160	0.03	21.09	22.50	1.384	1.605	22.1
Top side	20	QPSK PCC 1 0	132072/1720	1:1	3.130	1.320	0.08	21.69	22.50	1.205	1.591	22.4
		QPSK SCC 0 0	132270/1739.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_25	132572/1770	1:1	2.690	1.390	-0.01	21.04	22.50	1.400	1.945	22.1
Top side	20	QPSK 50_25	132572/1770	1:1	3.490	1.480	0.11	21.04	22.50	1.400	2.071	22.1
Top side	20	QPSK 50_0	132072/1720	1:1	3.110	1.200	-0.01	20.99	22.50	1.416	1.699	22.1
Top side	20	QPSK 50_25	132322/1745	1:1	2.890	1.140	0.11	21.03	22.50	1.403	1.599	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Top side	20	QPSK 100_0	132072/1720	1:1	4.100	1.500	0.04	21.05	22.50	1.396	2.095	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5 with ENDC												
Back side	20	QPSK 1_99	132072/1720	1:1	2.340	1.220	0.01	21.09	21.00	0.979	1.195	22.1
Top side	20	QPSK 1_99	132072/1720	1:1	2.770	1.160	0.03	21.09	21.00	0.979	1.136	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5 with ENDC												
Back side	20	QPSK 50_25	132572/1770	1:1	2.690	1.390	-0.01	21.04	21.00	0.991	1.377	22.1
Top side	20	QPSK 50_25	132572/1770	1:1	3.490	1.480	0.11	21.04	21.00	0.991	1.466	22.1
Top side	20	QPSK 50_0	132072/1720	1:1	3.110	1.200	-0.01	20.99	21.00	1.002	1.203	22.1
Top side	20	QPSK 50_25	132322/1745	1:1	2.890	1.140	0.11	21.03	21.00	0.993	1.132	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 1_99	132072/1720	1:1	0.587	0.341	-0.07	23.13	24.50	1.371	0.467	22.1
Top side 14mm	20	QPSK 1_99	132072/1720	1:1	0.739	0.375	0.19	23.13	24.50	1.371	0.514	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_25	132572/1770	1:1	0.552	0.312	0.09	22.12	23.50	1.374	0.429	22.1
Top side 14mm	20	QPSK 50_25	132572/1770	1:1	0.667	0.343	-0.13	22.12	23.50	1.374	0.471	22.1
Ant 31 Test Record												

Ant 31 Test Record



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Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.067	0.040	0.02	22.82	24.00	1.312	0.088	22.1
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.036	0.021	0.05	22.82	24.00	1.312	0.048	22.1
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.040	0.024	0.02	22.82	24.00	1.312	0.052	22.1
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.046	0.025	0.03	22.82	24.00	1.312	0.060	22.1
Left cheek	20	QPSK PCC 1_0	132322/1745	1:1	0.053	0.038	0.12	22.59	24.00	1.384	0.073	22.4
		QPSK SCC 0_0	132124/1725.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.052	0.031	0.01	21.80	23.00	1.318	0.069	22.1
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.030	0.017	-0.04	21.80	23.00	1.318	0.039	22.1
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.034	0.020	0.02	21.80	23.00	1.318	0.044	22.1
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.039	0.021	0.05	21.80	23.00	1.318	0.052	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	132322/1745	1:1	0.090	0.055	-0.16	20.79	22.00	1.321	0.119	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.158	0.099	-0.06	20.79	22.00	1.321	0.209	22.3
Back side	20	QPSK PCC 1_0	132322/1745	1:1	0.163	0.102	-0.02	21.55	22.00	1.109	0.181	22.4
		QPSK SCC 0_0	132520/1764.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132572/1770	1:1	0.098	0.059	-0.06	20.83	22.00	1.309	0.128	22.3
Back side	20	QPSK 50_50	132572/1770	1:1	0.170	0.107	-0.01	20.83	22.00	1.309	0.223	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132572/1770	1:1	0.139	0.082	0.06	19.37	20.50	1.297	0.180	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.229	0.138	-0.06	19.37	20.50	1.297	0.297	22.1
Left side	20	QPSK 1_99	132572/1770	1:1	0.048	0.028	0.02	19.37	20.50	1.297	0.062	22.1
Right side	20	QPSK 1_99	132572/1770	1:1	0.079	0.044	0.01	19.37	20.50	1.297	0.102	22.1
Bottom side	20	QPSK 1_99	132572/1770	1:1	0.328	0.185	0.02	19.37	20.50	1.297	0.425	22.1
Bottom side	20	QPSK PCC 1_0	132572/1770	1:1	0.343	0.192	0.09	20.11	20.50	1.094	0.375	22.4
		QPSK SCC 0_0	132374/1750.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	132072/1720	1:1	0.137	0.081	0.05	19.45	20.50	1.274	0.174	22.1
Back side	20	QPSK 50_25	132072/1720	1:1	0.238	0.136	-0.02	19.45	20.50	1.274	0.303	22.1
Left side	20	QPSK 50_25	132072/1720	1:1	0.033	0.019	0.02	19.45	20.50	1.274	0.042	22.1
Right side	20	QPSK 50_25	132072/1720	1:1	0.074	0.042	0.05	19.45	20.50	1.274	0.094	22.1
Bottom side	20	QPSK 50_25	132072/1720	1:1	0.367	0.204	-0.05	19.45	20.50	1.274	0.467	22.1
Ant 11 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)



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Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	132572/1770	1:1	0.286	0.157	0.16	17.50	18.50	1.259	0.360	22.1
Left tilted	20	QPSK 1_99	132572/1770	1:1	0.066	0.041	-0.17	17.50	18.50	1.259	0.083	22.1
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.570	0.300	-0.16	17.50	18.50	1.259	0.718	22.1
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.118	0.068	-0.05	17.50	18.50	1.259	0.149	22.1
Right cheek	20	QPSK PCC 1_0	132572/1770	1:1	0.589	0.308	-0.07	18.23	18.50	1.064	0.627	22.4
		QPSK SCC 0_0	132374/1750. 2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.298	0.164	0.05	17.55	18.50	1.245	0.371	22.1
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.077	0.048	0.16	17.55	18.50	1.245	0.096	22.1
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.612	0.285	-0.09	17.55	18.50	1.245	0.762	22.3
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.120	0.069	0.18	17.55	18.50	1.245	0.149	22.1
Head Test Data (1RB) DSI 2 with Inter-band ULCA												
Left cheek	20	QPSK 1_99	132572/1770	1:1	0.286	0.157	0.16	17.50	17.50	1.000	0.286	22.1
Left tilted	20	QPSK 1_99	132572/1770	1:1	0.066	0.041	-0.17	17.50	17.50	1.000	0.066	22.1
Right cheek	20	QPSK 1_99	132572/1770	1:1	0.570	0.300	-0.16	17.50	17.50	1.000	0.570	22.1
Right tilted	20	QPSK 1_99	132572/1770	1:1	0.118	0.068	-0.05	17.50	17.50	1.000	0.118	22.1
Head Test Data (50%RB) DSI 2 with Inter-band ULCA												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.298	0.164	0.05	17.55	17.50	0.989	0.295	22.1
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.077	0.048	0.16	17.55	17.50	0.989	0.076	22.1
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.612	0.285	-0.09	17.55	17.50	0.989	0.605	22.3
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.120	0.069	0.18	17.55	17.50	0.989	0.119	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	132572/1770	1:1	0.264	0.141	-0.08	22.89	24.00	1.291	0.341	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.326	0.176	-0.03	22.89	24.00	1.291	0.421	22.3
Back side	20	QPSK PCC 1_0	132572/1770	1:1	0.313	0.164	-0.06	23.22	24.00	1.197	0.375	22.4
		QPSK SCC 0_0	132374/1750. 2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132572/1770	1:1	0.213	0.110	-0.14	21.98	23.00	1.265	0.269	22.1
Back side	20	QPSK 50_50	132572/1770	1:1	0.306	0.168	0.19	21.98	23.00	1.265	0.387	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132572/1770	1:1	0.209	0.104	0.19	18.48	19.50	1.265	0.264	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	0.365	0.170	-0.18	18.48	19.50	1.265	0.462	22.1
Left side	20	QPSK 1_99	132572/1770	1:1	0.425	0.203	-0.08	18.48	19.50	1.265	0.538	22.1
Top side	20	QPSK 1_99	132572/1770	1:1	0.004	0.001	0.06	18.48	19.50	1.265	0.005	22.1
Left side	20	QPSK PCC 1_0	132572/1770	1:1	0.438	0.212	0.01	19.01	19.50	1.119	0.490	22.4
		QPSK SCC 0_0	132374/1750. 2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132572/1770	1:1	0.219	0.111	0.03	18.55	19.50	1.245	0.273	22.1
Back side	20	QPSK 50_50	132572/1770	1:1	0.368	0.173	-0.02	18.55	19.50	1.245	0.458	22.1
Left side	20	QPSK 50_50	132572/1770	1:1	0.455	0.222	0.16	18.55	19.50	1.245	0.566	22.3



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Top side	20	QPSK 50_50	132572/1770	1:1	0.039	0.011	-0.12	18.55	19.50	1.245	0.049	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg) ¹ -g	SAR (W/kg) ¹⁰ -g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_99	132322/1745	1:1	3.190	1.560	-0.02	19.83	21.00	1.309	2.042	22.1
Left side	20	QPSK 1_99	132322/1745	1:1	3.330	1.410	0.16	19.83	21.00	1.309	1.846	22.1
Back side	20	QPSK 1_99	132072/1720	1:1	3.110	1.500	0.05	19.72	21.00	1.343	2.014	22.1
Back side	20	QPSK 1_99	132572/1770	1:1	3.580	1.500	-0.07	19.81	21.00	1.315	1.973	22.1
Back side	20	QPSK PCC 1_0	132572/1770	1:1	4.220	1.590	0.03	20.39	21.00	1.151	1.830	22.4
		QPSK SCC 0_0	132374/1750.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_50	132572/1770	1:1	3.770	1.570	-0.02	19.87	21.00	1.297	2.037	22.1
Left side	20	QPSK 50_50	132572/1770	1:1	3.400	1.550	0.11	19.87	21.00	1.297	2.011	22.1
Back side	20	QPSK 50_25	132072/1720	1:1	3.690	1.580	-0.10	19.74	21.00	1.337	2.112	22.1
Back side	20	QPSK 50_50	132322/1745	1:1	3.300	1.490	-0.04	19.82	21.00	1.312	1.955	22.1
Left side	20	QPSK 50_25	132072/1720	1:1	4.040	1.600	-0.13	19.74	21.00	1.337	2.139	22.3
Left side	20	QPSK 50_50	132322/1745	1:1	3.990	1.580	0.05	19.82	21.00	1.312	2.073	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Back side	20	QPSK 100_0	132572/1770	1:1	3.900	1.550	-0.07	19.81	21.00	1.315	2.039	22.1
Left side	20	QPSK 100_0	132572/1770	1:1	3.650	1.460	0.04	19.81	21.00	1.315	1.920	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 1_99	132572/1770	1:1	0.556	0.279	0.02	22.89	24.00	1.291	0.360	22.1
Left side 17mm	20	QPSK 1_99	132572/1770	1:1	0.508	0.263	0.19	22.89	24.00	1.291	0.340	22.1
Produt specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_50	132572/1770	1:1	0.458	0.231	-0.12	21.98	23.00	1.265	0.292	22.1
Left side 17mm	20	QPSK 50_50	132572/1770	1:1	0.430	0.223	0.07	21.98	23.00	1.265	0.282	22.1

Table 23 : SAR of LTE Band 66 for Head, Body and Hotspot.

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8.2.14 SAR Result of NR Band n2

N2 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_53	372000/1860	100%	0.262	0.145	-0.11	14.62	15.50	1.225	0.321	22.1
Left tilted	20	QPSK 1_53	372000/1860	100%	0.332	0.175	0.01	14.62	15.50	1.225	0.407	22.1
Right cheek	20	QPSK 1_53	372000/1860	100%	0.399	0.214	-0.03	14.62	15.50	1.225	0.489	22.1
Right tilted	20	QPSK 1_53	372000/1860	100%	0.578	0.256	-0.18	14.62	15.50	1.225	0.708	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	372000/1860	100%	0.259	0.143	0.12	14.53	15.50	1.250	0.324	22.1
Left tilted	20	QPSK 50_28	372000/1860	100%	0.332	0.175	-0.05	14.53	15.50	1.250	0.415	22.1
Right cheek	20	QPSK 50_28	372000/1860	100%	0.410	0.219	0.06	14.53	15.50	1.250	0.513	22.1
Right tilted	20	QPSK 50_28	372000/1860	100%	0.609	0.265	0.02	14.53	15.50	1.250	0.761	22.3
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_53	372000/1860	100%	0.262	0.145	-0.11	14.62	14.50	0.973	0.255	22.1
Left tilted	20	QPSK 1_53	372000/1860	100%	0.332	0.175	0.01	14.62	14.50	0.973	0.323	22.1
Right cheek	20	QPSK 1_53	372000/1860	100%	0.399	0.214	-0.03	14.62	14.50	0.973	0.388	22.1
Right tilted	20	QPSK 1_53	372000/1860	100%	0.578	0.256	-0.18	14.62	14.50	0.973	0.562	22.1
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_28	372000/1860	100%	0.259	0.143	0.12	14.53	14.50	0.993	0.257	22.1
Left tilted	20	QPSK 50_28	372000/1860	100%	0.332	0.175	-0.05	14.53	14.50	0.993	0.330	22.1
Right cheek	20	QPSK 50_28	372000/1860	100%	0.410	0.219	0.06	14.53	14.50	0.993	0.407	22.1
Right tilted	20	QPSK 50_28	372000/1860	100%	0.609	0.265	0.02	14.53	14.50	0.993	0.605	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_1	372000/1860	100%	0.380	0.237	-0.13	23.14	24.00	1.219	0.463	22.1
Back side	20	QPSK 1_1	372000/1860	100%	0.404	0.240	-0.09	23.14	24.00	1.219	0.492	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	372000/1860	100%	0.362	0.207	0.12	23.02	24.00	1.253	0.454	22.1
Back side	20	QPSK 50_28	372000/1860	100%	0.382	0.228	-0.03	23.02	24.00	1.253	0.479	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_1	372000/1860	100%	0.342	0.179	0.01	19.14	20.00	1.219	0.417	22.1
Back side	20	QPSK 1_1	372000/1860	100%	0.404	0.209	-0.19	19.14	20.00	1.219	0.492	22.1
Left side	20	QPSK 1_1	372000/1860	100%	0.071	0.041	0.17	19.14	20.00	1.219	0.087	22.1
Top side	20	QPSK 1_1	372000/1860	100%	0.435	0.226	0.07	19.14	20.00	1.219	0.530	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	372000/1860	100%	0.301	0.159	-0.07	19.01	20.00	1.256	0.378	22.1



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Back side	20	QPSK 50 28	372000/1860	100%	0.388	0.195	0.18	19.01	20.00	1.256	0.487	22.1
Left side	20	QPSK 50 28	372000/1860	100%	0.069	0.039	-0.05	19.01	20.00	1.256	0.087	22.1
Top side	20	QPSK 50 28	372000/1860	100%	0.411	0.215	-0.11	19.01	20.00	1.256	0.516	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_1	372000/1860	100%	2.930	1.340	-0.08	21.67	22.50	1.211	1.622	22.1
Top side	20	QPSK 1_1	372000/1860	100%	3.540	1.500	0.10	21.67	22.50	1.211	1.816	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50 28	372000/1860	100%	2.860	1.430	0.09	21.49	22.50	1.262	1.804	22.1
Top side	20	QPSK 50 28	372000/1860	100%	4.070	1.580	0.05	21.49	22.50	1.262	1.994	22.4
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 1_1	372000/1860	100%	0.594	0.342	-0.08	23.14	24.00	1.219	0.417	22.1
Top side 14mm	20	QPSK 1_1	372000/1860	100%	1.000	0.532	0.11	23.14	24.00	1.219	0.649	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50 28	372000/1860	100%	0.630	0.358	-0.13	23.02	24.00	1.253	0.449	22.1
Top side 14mm	20	QPSK 50 28	372000/1860	100%	1.100	0.557	-0.09	23.02	24.00	1.253	0.698	22.1
Ant 31 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_1	372000/1860	100%	0.058	0.038	-0.14	22.94	23.50	1.138	0.066	22.1
Left tilted	20	QPSK 1_1	372000/1860	100%	0.025	0.019	-0.04	22.94	23.50	1.138	0.028	22.1
Right cheek	20	QPSK 1_1	372000/1860	100%	0.076	0.048	-0.16	22.94	23.50	1.138	0.086	22.1
Right tilted	20	QPSK 1_1	372000/1860	100%	0.038	0.025	0.19	22.94	23.50	1.138	0.043	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50 28	372000/1860	100%	0.057	0.038	0.15	22.83	23.50	1.167	0.067	22.1
Left tilted	20	QPSK 50 28	372000/1860	100%	0.023	0.015	0.04	22.83	23.50	1.167	0.027	22.1
Right cheek	20	QPSK 50 28	372000/1860	100%	0.074	0.046	0.05	22.83	23.50	1.167	0.086	22.1
Right tilted	20	QPSK 50 28	372000/1860	100%	0.035	0.021	-0.12	22.83	23.50	1.167	0.041	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_1	372000/1860	100%	0.130	0.079	0.05	20.45	21.00	1.135	0.148	22.1
Back side	20	QPSK 1_1	372000/1860	100%	0.200	0.124	-0.10	20.45	21.00	1.135	0.227	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50 28	372000/1860	100%	0.127	0.078	-0.12	20.31	21.00	1.172	0.149	22.1
Back side	20	QPSK 50 28	372000/1860	100%	0.201	0.128	-0.09	20.31	21.00	1.172	0.236	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												



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Front side	20	QPSK 1_1	372000/1860	100%	0.193	0.114	0.14	19.45	20.00	1.135	0.219	22.1
Back side	20	QPSK 1_1	372000/1860	100%	0.283	0.170	0.17	19.45	20.00	1.135	0.321	22.1
Left side	20	QPSK 1_1	372000/1860	100%	0.054	0.032	0.03	19.45	20.00	1.135	0.061	22.1
Right side	20	QPSK 1_1	372000/1860	100%	0.094	0.052	0.18	19.45	20.00	1.135	0.107	22.1
Bottom side	20	QPSK 1_1	372000/1860	100%	0.359	0.209	0.04	19.45	20.00	1.135	0.407	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	372000/1860	100%	0.181	0.106	0.14	19.29	20.00	1.178	0.213	22.1
Back side	20	QPSK 50_28	372000/1860	100%	0.292	0.173	0.17	19.29	20.00	1.178	0.344	22.1
Left side	20	QPSK 50_28	372000/1860	100%	0.050	0.030	-0.06	19.29	20.00	1.178	0.059	22.1
Right side	20	QPSK 50_28	372000/1860	100%	0.091	0.050	-0.19	19.29	20.00	1.178	0.107	22.1
Bottom side	20	QPSK 50_28	372000/1860	100%	0.322	0.181	-0.11	19.29	20.00	1.178	0.379	22.1

Table 24 : SAR of NR Band n2 for Head, Body and Hotspot.



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8.2.15 SAR Result of NR Band n7

N7 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_214	510000/2550	100%	0.123	0.059	0.06	12.63	13.50	1.222	0.150	22.3
Left tilted	40	QPSK 1_214	510000/2550	100%	0.182	0.085	-0.06	12.63	13.50	1.222	0.222	22.3
Right cheek	40	QPSK 1_214	510000/2550	100%	0.304	0.126	0.09	12.63	13.50	1.222	0.371	22.3
Right tilted	40	QPSK 1_214	510000/2550	100%	0.459	0.165	0.13	12.63	13.50	1.222	0.561	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	510000/2550	100%	0.126	0.060	-0.17	12.44	13.50	1.276	0.161	22.3
Left tilted	40	QPSK 108_54	510000/2550	100%	0.183	0.086	0.08	12.44	13.50	1.276	0.234	22.3
Right cheek	40	QPSK 108_54	510000/2550	100%	0.309	0.123	-0.05	12.44	13.50	1.276	0.394	22.3
Right tilted	40	QPSK 108_54	510000/2550	100%	0.499	0.185	0.05	12.44	13.50	1.276	0.637	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	510000/2550	100%	0.042	0.022	-0.05	18.58	19.50	1.236	0.052	22.3
Back side	40	QPSK 1_1	510000/2550	100%	0.098	0.038	-0.17	18.58	19.50	1.236	0.121	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	510000/2550	100%	0.050	0.027	0.17	18.42	19.50	1.282	0.064	22.3
Back side	40	QPSK 108_54	510000/2550	100%	0.149	0.068	-0.19	18.42	19.50	1.282	0.191	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	510000/2550	100%	0.033	0.011	0.02	14.60	15.50	1.230	0.041	22.3
Back side	40	QPSK 1_1	510000/2550	100%	0.103	0.043	-0.05	14.60	15.50	1.230	0.127	22.3
Left side	40	QPSK 1_1	510000/2550	100%	0.001	/	0.12	14.60	15.50	1.230	0.001	22.3
Top side	40	QPSK 1_1	510000/2550	100%	0.094	0.040	0.15	14.60	15.50	1.230	0.116	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	510000/2550	100%	0.039	0.018	-0.14	14.52	15.50	1.253	0.049	22.3
Back side	40	QPSK 108_54	510000/2550	100%	0.133	0.054	-0.16	14.52	15.50	1.253	0.167	22.3
Left side	40	QPSK 108_54	510000/2550	100%	0.002	0.001	-0.03	14.52	15.50	1.253	0.003	22.3
Top side	40	QPSK 108_54	510000/2550	100%	0.180	0.075	0.10	14.52	15.50	1.253	0.226	22.3
Ant 31 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_1	507000/2535	100%	0.102	0.059	0.01	22.98	24.00	1.265	0.129	22.3
Left tilted	40	QPSK 1_1	507000/2535	100%	0.074	0.041	-0.11	22.98	24.00	1.265	0.094	22.3
Right cheek	40	QPSK 1_1	507000/2535	100%	0.160	0.089	-0.08	22.98	24.00	1.265	0.202	22.3



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Right tilted	40	QPSK 1_1	507000/2535	100%	0.082	0.044	0.15	22.98	24.00	1.265	0.104	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	507000/2535	100%	0.099	0.056	0.12	22.85	24.00	1.303	0.129	22.3
Left tilted	40	QPSK 108_54	507000/2535	100%	0.056	0.032	0.08	22.85	24.00	1.303	0.073	22.3
Right cheek	40	QPSK 108_54	507000/2535	100%	0.171	0.094	0.09	22.85	24.00	1.303	0.223	22.3
Right tilted	40	QPSK 108_54	507000/2535	100%	0.075	0.040	0.18	22.85	24.00	1.303	0.098	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	507000/2535	100%	0.143	0.080	-0.03	22.52	23.50	1.253	0.179	22.3
Back side	40	QPSK 1_1	507000/2535	100%	0.163	0.088	-0.15	22.52	23.50	1.253	0.204	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	507000/2535	100%	0.129	0.074	0.01	22.39	23.50	1.291	0.167	22.3
Back side	40	QPSK 108_54	507000/2535	100%	0.136	0.075	-0.14	22.39	23.50	1.291	0.176	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	507000/2535	100%	0.221	0.120	-0.13	21.03	22.00	1.250	0.276	22.3
Back side	40	QPSK 1_1	507000/2535	100%	0.214	0.118	0.05	21.03	22.00	1.250	0.268	22.3
Left side	40	QPSK 1_1	507000/2535	100%	0.053	0.025	-0.03	21.03	22.00	1.250	0.066	22.3
Right side	40	QPSK 1_1	507000/2535	100%	0.153	0.082	0.12	21.03	22.00	1.250	0.191	22.3
Bottom side	40	QPSK 1_1	507000/2535	100%	0.225	0.104	-0.11	21.03	22.00	1.250	0.281	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	507000/2535	100%	0.195	0.107	0.11	20.85	22.00	1.303	0.254	22.3
Back side	40	QPSK 108_54	507000/2535	100%	0.201	0.106	0.18	20.85	22.00	1.303	0.262	22.3
Left side	40	QPSK 108_54	507000/2535	100%	0.046	0.022	0.05	20.85	22.00	1.303	0.060	22.3
Right side	40	QPSK 108_54	507000/2535	100%	0.148	0.079	-0.15	20.85	22.00	1.303	0.193	22.3
Bottom side	40	QPSK 108_54	507000/2535	100%	0.213	0.100	0.18	20.85	22.00	1.303	0.278	22.3
Ant 11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_1	507000/2535	100%	0.163	0.083	-0.16	18.45	19.50	1.274	0.208	22.3
Left tilted	40	QPSK 1_1	507000/2535	100%	0.071	0.041	0.09	18.45	19.50	1.274	0.090	22.3
Right cheek	40	QPSK 1_1	507000/2535	100%	0.471	0.218	-0.05	18.45	19.50	1.274	0.600	22.3
Right tilted	40	QPSK 1_1	507000/2535	100%	0.132	0.070	0.07	18.45	19.50	1.274	0.168	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	507000/2535	100%	0.203	0.099	0.13	18.41	19.50	1.285	0.261	22.3
Left tilted	40	QPSK 108_54	507000/2535	100%	0.084	0.047	0.16	18.41	19.50	1.285	0.108	22.3
Right cheek	40	QPSK 108_54	507000/2535	100%	0.473	0.200	0.08	18.41	19.50	1.285	0.608	22.3
Right tilted	40	QPSK 108_54	507000/2535	100%	0.125	0.068	-0.01	18.41	19.50	1.285	0.161	22.3



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Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	507000/2535	100%	0.159	0.084	0.02	22.93	24.00	1.279	0.203	22.3
Back side	40	QPSK 1_1	507000/2535	100%	0.266	0.147	-0.03	22.93	24.00	1.279	0.340	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	507000/2535	100%	0.180	0.086	0.11	22.87	24.00	1.297	0.233	22.3
Back side	40	QPSK 108_54	507000/2535	100%	0.271	0.127	-0.12	22.87	24.00	1.297	0.352	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	507000/2535	100%	0.083	0.041	0.03	16.95	18.00	1.274	0.106	22.3
Back side	40	QPSK 1_1	507000/2535	100%	0.179	0.082	0.05	16.95	18.00	1.274	0.228	22.3
Left side	40	QPSK 1_1	507000/2535	100%	0.184	0.081	-0.11	16.95	18.00	1.274	0.234	22.3
Top side	40	QPSK 1_1	507000/2535	100%	0.046	0.022	-0.05	16.95	18.00	1.274	0.059	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	507000/2535	100%	0.093	0.044	0.16	16.88	18.00	1.294	0.120	22.3
Back side	40	QPSK 108_54	507000/2535	100%	0.200	0.088	0.03	16.88	18.00	1.294	0.259	22.3
Left side	40	QPSK 108_54	507000/2535	100%	0.271	0.112	0.07	16.88	18.00	1.294	0.351	22.3
Top side	40	QPSK 108_54	507000/2535	100%	0.049	0.025	0.02	16.88	18.00	1.294	0.063	22.3
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	40	QPSK 1_1	507000/2535	1:1	3.580	1.180	-0.18	18.45	19.50	1.274	1.503	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	40	QPSK 108_54	507000/2535	1:1	4.970	1.450	-0.06	18.41	19.50	1.285	1.864	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Left side 17mm	40	QPSK 1_1	507000/2535	1:1	0.317	0.157	-0.04	22.93	24.00	1.279	0.201	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Left side 17mm	40	QPSK 108_54	507000/2535	1:1	0.383	0.187	0.11	22.87	24.00	1.297	0.243	22.1

Table 25 : SAR of NR Band n7 for Head, Body and Hotspot.



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8.2.16 SAR Result of NR Band n26

N26 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.316	0.213	0.04	19.94	21.00	1.276	0.403	22.5
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.214	0.139	0.04	19.94	21.00	1.276	0.273	22.5
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.422	0.254	0.19	19.94	21.00	1.276	0.539	22.5
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.378	0.205	-0.01	19.94	21.00	1.276	0.482	22.5
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	164800/824	100%	0.280	0.190	-0.03	19.84	21.00	1.306	0.366	22.5
Left tilted	20	QPSK 50_28	164800/824	100%	0.246	0.158	0.02	19.84	21.00	1.306	0.321	22.5
Right cheek	20	QPSK 50_28	164800/824	100%	0.350	0.217	0.00	19.84	21.00	1.306	0.457	22.5
Right tilted	20	QPSK 50_28	164800/824	100%	0.400	0.215	0.02	19.84	21.00	1.306	0.522	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_1	164800/824	100%	0.049	0.038	0.16	23.91	25.00	1.285	0.063	22.5
Back side	20	QPSK 1_1	164800/824	100%	0.064	0.050	-0.04	23.91	25.00	1.285	0.082	22.5
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	164800/824	100%	0.052	0.040	0.01	23.82	25.00	1.312	0.068	22.5
Back side	20	QPSK 50_28	164800/824	100%	0.068	0.053	0.00	23.82	25.00	1.312	0.089	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_1	164800/824	100%	0.054	0.037	-0.08	23.91	25.00	1.285	0.070	22.4
Back side	20	QPSK 1_1	164800/824	100%	0.071	0.047	-0.12	23.91	25.00	1.285	0.091	22.4
Left side	20	QPSK 1_1	164800/824	100%	0.054	0.038	0.14	23.91	25.00	1.285	0.070	22.4
Top side	20	QPSK 1_1	164800/824	100%	0.064	0.040	0.08	23.91	25.00	1.285	0.082	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	164800/824	100%	0.065	0.044	0.01	23.82	25.00	1.312	0.086	22.4
Back side	20	QPSK 50_28	164800/824	100%	0.078	0.050	0.07	23.82	25.00	1.312	0.102	22.4
Left side	20	QPSK 50_28	164800/824	100%	0.051	0.036	0.11	23.82	25.00	1.312	0.067	22.4
Top side	20	QPSK 50_28	164800/824	100%	0.072	0.046	0.01	23.82	25.00	1.312	0.094	22.4
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_104	164800/824	100%	0.160	0.110	0.18	24.03	25.00	1.250	0.200	22.4
Left tilted	20	QPSK 1_104	164800/824	100%	0.074	0.052	0.01	24.03	25.00	1.250	0.093	22.4
Right cheek	20	QPSK 1_104	164800/824	100%	0.135	0.094	0.05	24.03	25.00	1.250	0.169	22.4
Right tilted	20	QPSK 1_104	164800/824	100%	0.068	0.048	0.03	24.03	25.00	1.250	0.085	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	164800/824	100%	0.144	0.100	0.01	23.95	25.00	1.274	0.183	22.4



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Left tilted	20	QPSK 50_28	164800/824	100%	0.065	0.045	0.16	23.95	25.00	1.274	0.082	22.4
Right cheek	20	QPSK 50_28	164800/824	100%	0.127	0.088	0.09	23.95	25.00	1.274	0.162	22.4
Right tilted	20	QPSK 50_28	164800/824	100%	0.068	0.047	0.13	23.95	25.00	1.274	0.087	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_104	164800/824	100%	0.103	0.075	-0.01	24.03	25.00	1.250	0.129	22.2
Back side	20	QPSK 1_104	164800/824	100%	0.126	0.079	0.03	24.03	25.00	1.250	0.158	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	164800/824	100%	0.103	0.074	-0.01	23.95	25.00	1.274	0.131	22.2
Back side	20	QPSK 50_28	164800/824	100%	0.112	0.079	0.03	23.95	25.00	1.274	0.143	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_104	166300/831.5	100%	0.124	0.076	0.06	23.01	24.00	1.256	0.156	22.2
Back side	20	QPSK 1_104	166300/831.5	100%	0.133	0.084	0.15	23.01	24.00	1.256	0.167	22.2
Left side	20	QPSK 1_104	166300/831.5	100%	0.119	0.079	0.08	23.01	24.00	1.256	0.149	22.2
Right side	20	QPSK 1_104	166300/831.5	100%	0.073	0.048	0.11	23.01	24.00	1.256	0.092	22.2
Bottom side	20	QPSK 1_104	166300/831.5	100%	0.139	0.076	-0.01	23.01	24.00	1.256	0.175	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	164800/824	100%	0.114	0.067	-0.02	22.99	24.00	1.262	0.144	22.2
Back side	20	QPSK 50_28	164800/824	100%	0.127	0.081	-0.10	22.99	24.00	1.262	0.160	22.2
Left side	20	QPSK 50_28	164800/824	100%	0.115	0.075	-0.06	22.99	24.00	1.262	0.145	22.2
Right side	20	QPSK 50_28	164800/824	100%	0.057	0.037	-0.01	22.99	24.00	1.262	0.072	22.2
Bottom side	20	QPSK 50_28	164800/824	100%	0.132	0.086	-0.15	22.99	24.00	1.262	0.167	22.2

Table 26 : SAR of NR Band n26 for Head, Body and Hotspot.



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8.2.17 SAR Result of NR Band n38

N38 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_104	520000/2600	100%	0.096	0.045	-0.11	12.88	13.50	1.153	0.111	22.1
Left tilted	40	QPSK 1_104	520000/2600	100%	0.140	0.066	-0.10	12.88	13.50	1.153	0.161	22.1
Right cheek	40	QPSK 1_104	520000/2600	100%	0.266	0.112	0.19	12.88	13.50	1.153	0.307	22.1
Right tilted	40	QPSK 1_104	520000/2600	100%	0.330	0.132	0.03	12.88	13.50	1.153	0.381	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 50_28	520000/2600	100%	0.116	0.056	-0.01	12.65	13.50	1.216	0.141	22.1
Left tilted	40	QPSK 50_28	520000/2600	100%	0.167	0.079	-0.07	12.65	13.50	1.216	0.203	22.1
Right cheek	40	QPSK 50_28	520000/2600	100%	0.273	0.117	-0.16	12.65	13.50	1.216	0.332	22.1
Right tilted	40	QPSK 50_28	520000/2600	100%	0.360	0.152	-0.17	12.65	13.50	1.216	0.438	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_104	520000/2600	100%	0.101	0.050	0.13	18.83	19.50	1.167	0.118	22.1
Back side	40	QPSK 1_104	520000/2600	100%	0.351	0.162	0.15	18.83	19.50	1.167	0.410	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 50_28	519000/2595	100%	0.129	0.066	0.08	18.61	19.50	1.227	0.158	22.1
Back side	40	QPSK 50_28	519000/2595	100%	0.417	0.192	0.14	18.61	19.50	1.227	0.512	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_104	520000/2600	100%	0.083	0.041	0.12	14.78	15.50	1.180	0.098	22.1
Back side	40	QPSK 1_104	520000/2600	100%	0.390	0.158	-0.05	14.78	15.50	1.180	0.460	22.1
Left side	40	QPSK 1_104	520000/2600	100%	0.049	0.025	-0.18	14.78	15.50	1.180	0.058	22.1
Top side	40	QPSK 1_104	520000/2600	100%	0.287	0.118	0.17	14.78	15.50	1.180	0.339	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 50_28	520000/2600	100%	0.097	0.045	0.16	14.58	15.50	1.236	0.120	22.1
Back side	40	QPSK 50_28	520000/2600	100%	0.395	0.169	0.02	14.58	15.50	1.236	0.488	22.1
Left side	40	QPSK 50_28	520000/2600	100%	0.047	0.025	-0.15	14.58	15.50	1.236	0.058	22.1
Top side	40	QPSK 50_28	520000/2600	100%	0.319	0.140	-0.14	14.58	15.50	1.236	0.394	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.



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Product specific 10g SAR Test data (Separate 0mm 1RB) DSI 4												
Back side	40	QPSK 1_104	520000/2600	100%	2.500	0.897	0.01	18.83	19.50	1.167	1.047	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) DSI 4												
Back side	40	QPSK 50_28	519000/2595	100%	2.840	0.990	-0.02	18.61	19.50	1.227	1.215	22.3
Ant 11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycl e	SAR (W/kg 1-g	SAR (W/kg 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_104	520000/2600	100%	0.253	0.118	-0.15	18.49	19.50	1.262	0.319	22.1
Left tilted	40	QPSK 1_104	520000/2600	100%	0.067	0.038	0.17	18.49	19.50	1.262	0.085	22.1
Right cheek	40	QPSK 1_104	520000/2600	100%	0.608	0.286	-0.05	18.49	19.50	1.262	0.767	22.1
Right tilted	40	QPSK 1_104	520000/2600	100%	0.131	0.070	0.06	18.49	19.50	1.262	0.165	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 50_28	520000/2600	100%	0.283	0.135	0.10	18.29	19.50	1.321	0.374	22.1
Left tilted	40	QPSK 50_28	520000/2600	100%	0.069	0.039	-0.08	18.29	19.50	1.321	0.091	22.1
Right cheek	40	QPSK 50_28	520000/2600	100%	0.583	0.230	0.06	18.29	19.50	1.321	0.770	22.1
Right tilted	40	QPSK 50_28	520000/2600	100%	0.141	0.076	0.04	18.29	19.50	1.321	0.186	22.1
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	40	QPSK 1_104	520000/2600	100%	0.253	0.118	-0.15	18.49	12.50	0.252	0.064	22.1
Left tilted	40	QPSK 1_104	520000/2600	100%	0.067	0.038	0.17	18.49	12.50	0.252	0.017	22.1
Right cheek	40	QPSK 1_104	520000/2600	100%	0.608	0.286	-0.05	18.49	12.50	0.252	0.153	22.1
Right tilted	40	QPSK 1_104	520000/2600	100%	0.131	0.070	0.06	18.49	12.50	0.252	0.033	22.1
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	40	QPSK 50_28	520000/2600	100%	0.283	0.135	0.10	18.29	12.50	0.264	0.075	22.1
Left tilted	40	QPSK 50_28	520000/2600	100%	0.069	0.039	-0.08	18.29	12.50	0.264	0.018	22.1
Right cheek	40	QPSK 50_28	520000/2600	100%	0.583	0.230	0.06	18.29	12.50	0.264	0.154	22.1
Right tilted	40	QPSK 50_28	520000/2600	100%	0.141	0.076	0.04	18.29	12.50	0.264	0.037	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_104	520000/2600	100%	0.281	0.141	-0.13	23.96	25.00	1.271	0.357	22.1
Back side	40	QPSK 1_104	520000/2600	100%	0.499	0.246	-0.06	23.96	25.00	1.271	0.634	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 50_28	519000/2595	100%	0.279	0.139	0.00	23.76	25.00	1.330	0.371	22.1
Back side	40	QPSK 50_28	519000/2595	100%	0.470	0.236	-0.14	23.76	25.00	1.330	0.625	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												



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Front side	40	QPSK 1 104	520000/2600	100%	0.122	0.044	0.02	16.98	18.00	1.265	0.154	22.1
Back side	40	QPSK 1 104	520000/2600	100%	0.261	0.119	0.04	16.98	18.00	1.265	0.330	22.1
Left side	40	QPSK 1 104	520000/2600	100%	0.382	0.163	-0.18	16.98	18.00	1.265	0.483	22.1
Top side	40	QPSK 1 104	520000/2600	100%	0.002	0.001	0.00	16.98	18.00	1.265	0.003	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 50 28	518000/2590	100%	0.125	0.057	-0.03	16.76	18.00	1.330	0.166	22.1
Back side	40	QPSK 50 28	518000/2590	100%	0.281	0.117	-0.09	16.76	18.00	1.330	0.374	22.1
Left side	40	QPSK 50 28	518000/2590	100%	0.362	0.161	0.01	16.76	18.00	1.330	0.482	22.1
Top side	40	QPSK 50 28	518000/2590	100%	0.002	0.001	-0.04	16.76	18.00	1.330	0.003	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	40	QPSK 1 104	519000/2595	1:1	3.420	1.160	-0.12	17.96	19.00	1.271	1.474	22.1
Left side	40	QPSK 1 104	519000/2595	1:1	5.180	1.680	0.18	17.96	19.00	1.271	2.135	22.1
Left side	40	QPSK 1 104	518000/2590	1:1	4.670	1.580	0.07	17.91	19.00	1.285	2.031	22.1
Left side	40	QPSK 1 104	520000/2600	1:1	4.670	1.580	0.08	17.92	19.00	1.282	2.026	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	40	QPSK 50 28	519000/2595	1:1	3.040	1.140	0.16	17.78	19.00	1.324	1.510	22.1
Left side	40	QPSK 50 28	519000/2595	1:1	4.920	1.610	0.12	17.78	19.00	1.324	2.132	22.1
Left side	40	QPSK 50 28	518000/2590	1:1	4.920	1.560	0.08	17.71	19.00	1.346	2.100	22.1
Left side	40	QPSK 50 28	520000/2600	1:1	4.890	1.570	-0.08	17.69	19.00	1.352	2.123	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Left side	40	QPSK 100 0	519000/2595	1:1	3.910	1.280	0.03	16.82	18.00	1.312	1.680	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	40	QPSK 1 104	520000/2600	1:1	0.716	0.335	0.05	23.96	25.00	1.271	0.426	22.1
Left side 17mm	40	QPSK 1 104	520000/2600	1:1	0.648	0.307	0.00	23.96	25.00	1.271	0.390	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	40	QPSK 50 28	519000/2595	1:1	0.722	0.336	-0.11	23.76	25.00	1.330	0.447	22.1
Left side 17mm	40	QPSK 50 28	519000/2595	1:1	0.652	0.312	-0.05	23.76	25.00	1.330	0.415	22.1

Table 27 : SAR of NR Band n38 for Head, Body and Hotspot.



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8.2.18 SAR Result of NR Band n41

N41 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.043	0.020	0.13	12.62	13.50	1.225	0.053	22.2
Left tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.061	0.029	-0.02	12.62	13.50	1.225	0.075	22.2
Right cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.110	0.046	-0.14	12.62	13.50	1.225	0.135	22.2
Right tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.146	0.059	-0.14	12.62	13.50	1.225	0.179	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	518598/2592.9 9	100 %	0.115	0.054	-0.09	12.62	13.50	1.225	0.141	22.2
Left tilted	100	QPSK 135_69	518598/2592.9 9	100 %	0.174	0.083	0.01	12.62	13.50	1.225	0.213	22.2
Right cheek	100	QPSK 135_69	518598/2592.9 9	100 %	0.284	0.116	0.00	12.62	13.50	1.225	0.348	22.2
Right tilted	100	QPSK 135_69	518598/2592.9 9	100 %	0.382	0.153	0.18	12.62	13.50	1.225	0.468	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	509202/2546.0 1	100 %	0.033	0.022	-0.05	18.62	19.50	1.225	0.040	22.2
Back side	100	QPSK 1_271	509202/2546.0 1	100 %	0.115	0.054	-0.07	18.62	19.50	1.225	0.141	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	518598/2592.9 9	100 %	0.102	0.051	0.13	18.57	19.50	1.239	0.126	22.2
Back side	100	QPSK 135_69	518598/2592.9 9	100 %	0.357	0.164	-0.06	18.57	19.50	1.239	0.442	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	509202/2546.0 1	100 %	0.045	0.026	-0.13	14.13	15.00	1.222	0.055	22.2
Back side	100	QPSK 1_271	509202/2546.0 1	100 %	0.230	0.093	-0.17	14.13	15.00	1.222	0.281	22.2
Left side	100	QPSK 1_271	509202/2546.0 1	100 %	0.023	0.011	0.18	14.13	15.00	1.222	0.028	22.2
Top side	100	QPSK 1_271	509202/2546.0 1	100 %	0.213	0.087	-0.04	14.13	15.00	1.222	0.260	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	518598/2592.9 9	100 %	0.086	0.041	0.07	14.11	15.00	1.227	0.106	22.2
Back side	100	QPSK 135_69	518598/2592.9 9	100 %	0.345	0.148	-0.02	14.11	15.00	1.227	0.423	22.2
Left side	100	QPSK 135_69	518598/2592.9 9	100 %	0.042	0.022	0.13	14.11	15.00	1.227	0.052	22.2
Top side	100	QPSK 135_69	518598/2592.9 9	100 %	0.335	0.148	0.09	14.11	15.00	1.227	0.411	22.2
Ant 31 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)



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Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.070	0.040	0.10	25.78	26.50	1.180	0.083	22.2
Left tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.048	0.027	0.06	25.78	26.50	1.180	0.057	22.2
Right cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.130	0.071	-0.11	25.78	26.50	1.180	0.153	22.2
Right tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.065	0.039	-0.16	25.78	26.50	1.180	0.077	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	523302/2616.5 1	100 %	0.071	0.040	0.12	25.68	26.50	1.208	0.086	22.2
Left tilted	100	QPSK 135_69	523302/2616.5 1	100 %	0.052	0.028	0.03	25.68	26.50	1.208	0.063	22.2
Right cheek	100	QPSK 135_69	523302/2616.5 1	100 %	0.126	0.068	0.09	25.68	26.50	1.208	0.152	22.2
Right tilted	100	QPSK 135_69	523302/2616.5 1	100 %	0.060	0.035	0.13	25.68	26.50	1.208	0.072	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	509202/2546.0 1	100 %	0.111	0.065	-0.19	21.32	22.00	1.169	0.130	22.2
Back side	100	QPSK 1_271	509202/2546.0 1	100 %	0.096	0.051	0.01	21.32	22.00	1.169	0.112	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	523302/2616.5 1	100 %	0.105	0.058	-0.13	21.14	22.00	1.219	0.128	22.2
Back side	100	QPSK 135_69	523302/2616.5 1	100 %	0.091	0.048	0.07	21.14	22.00	1.219	0.111	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	518598/2592.9 9	100 %	0.174	0.094	-0.17	20.26	21.00	1.186	0.206	22.2
Back side	100	QPSK 1_137	518598/2592.9 9	100 %	0.150	0.083	0.01	20.26	21.00	1.186	0.178	22.2
Left side	100	QPSK 1_137	518598/2592.9 9	100 %	0.036	0.015	-0.15	20.26	21.00	1.186	0.043	22.2
Right side	100	QPSK 1_137	518598/2592.9 9	100 %	0.105	0.055	0.19	20.26	21.00	1.186	0.125	22.2
Bottom side	100	QPSK 1_137	518598/2592.9 9	100 %	0.199	0.085	-0.07	20.26	21.00	1.186	0.236	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	523302/2616.5 1	100 %	0.144	0.082	-0.14	20.19	21.00	1.205	0.174	22.2
Back side	100	QPSK 135_69	523302/2616.5 1	100 %	0.140	0.074	-0.06	20.19	21.00	1.205	0.169	22.2
Left side	100	QPSK 135_69	523302/2616.5 1	100 %	0.026	0.006	0.15	20.19	21.00	1.205	0.031	22.2
Right side	100	QPSK 135_69	523302/2616.5 1	100 %	0.098	0.052	0.15	20.19	21.00	1.205	0.118	22.2
Bottom side	100	QPSK 135_69	523302/2616.5 1	100 %	0.158	0.075	0.11	20.19	21.00	1.205	0.190	22.2
Ant 11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.279	0.132	0.07	18.51	19.50	1.256	0.350	22.2
Left tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.068	0.039	-0.13	18.51	19.50	1.256	0.085	22.2



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			1	%								
Right cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.541	0.252	0.09	18.51	19.50	1.256	0.680	22.2
Right tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.132	0.073	-0.01	18.51	19.50	1.256	0.166	22.2
Right cheek	100	QPSK 1_137	513900/2569.5	100 %	0.538	0.253	0.11	18.42	19.50	1.282	0.690	22.2
Right cheek	100	QPSK 1_1	518598/2592.9 9	100 %	0.515	0.243	0.11	18.38	19.50	1.294	0.667	22.2
Right cheek	100	QPSK 1_1	523302/2616.5 1	100 %	0.534	0.251	0.04	18.41	19.50	1.285	0.686	22.2
Right cheek	100	QPSK 1_1	528000/2640	100 %	0.607	0.240	0.05	18.37	19.50	1.297	0.787	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	513900/2569.5	100 %	0.259	0.125	-0.06	18.36	19.50	1.300	0.337	22.2
Left tilted	100	QPSK 135_69	513900/2569.5	100 %	0.067	0.035	0.07	18.36	19.50	1.300	0.087	22.2
Right cheek	100	QPSK 135_69	513900/2569.5	100 %	0.519	0.244	0.01	18.36	19.50	1.300	0.675	22.2
Right tilted	100	QPSK 135_69	513900/2569.5	100 %	0.138	0.075	-0.16	18.36	19.50	1.300	0.179	22.2
Right cheek	100	QPSK 135_69	509202/2546.0 1	100 %	0.486	0.230	0.09	18.34	19.50	1.306	0.635	22.2
Right cheek	100	QPSK 135_69	518598/2592.9 9	100 %	0.534	0.248	-0.03	18.28	19.50	1.324	0.707	22.2
Right cheek	100	QPSK 135_69	523302/2616.5 1	100 %	0.516	0.235	0.05	18.27	19.50	1.327	0.685	22.2
Right cheek	100	QPSK 135_69	528000/2640	100 %	0.498	0.225	0.09	18.23	19.50	1.340	0.667	22.2
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.279	0.132	0.07	18.51	17.50	0.793	0.221	22.2
Left tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.068	0.039	-0.13	18.51	17.50	0.793	0.054	22.2
Right cheek	100	QPSK 1_271	509202/2546.0 1	100 %	0.541	0.252	0.09	18.51	17.50	0.793	0.429	22.2
Right tilted	100	QPSK 1_271	509202/2546.0 1	100 %	0.132	0.073	-0.01	18.51	17.50	0.793	0.105	22.2
Right cheek	100	QPSK 1_137	513900/2569.5	100 %	0.538	0.253	0.11	18.42	17.50	0.809	0.435	22.2
Right cheek	100	QPSK 1_1	518598/2592.9 9	100 %	0.515	0.243	0.11	18.38	17.50	0.817	0.421	22.2
Right cheek	100	QPSK 1_1	523302/2616.5 1	100 %	0.534	0.251	0.04	18.41	17.50	0.811	0.433	22.2
Right cheek	100	QPSK 1_1	528000/2640	100 %	0.607	0.240	0.05	18.37	17.50	0.818	0.497	22.2
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	100	QPSK 135_69	513900/2569.5	100 %	0.259	0.125	-0.06	18.36	17.50	0.820	0.212	22.2
Left tilted	100	QPSK 135_69	513900/2569.5	100 %	0.067	0.035	0.07	18.36	17.50	0.820	0.055	22.2
Right cheek	100	QPSK 135_69	513900/2569.5	100 %	0.519	0.244	0.01	18.36	17.50	0.820	0.426	22.2
Right tilted	100	QPSK 135_69	513900/2569.5	100 %	0.138	0.075	-0.16	18.36	17.50	0.820	0.113	22.2
Right cheek	100	QPSK 135_69	509202/2546.0 1	100 %	0.486	0.230	0.09	18.34	17.50	0.824	0.401	22.2
Right cheek	100	QPSK 135_69	518598/2592.9 9	100 %	0.534	0.248	-0.03	18.28	17.50	0.836	0.446	22.2



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Right cheek	100	QPSK 135_69	523302/2616.5 1	100 %	0.516	0.235	0.05	18.27	17.50	0.838	0.432	22.2
Right cheek	100	QPSK 135_69	528000/2640	100 %	0.498	0.225	0.09	18.23	17.50	0.845	0.421	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	509202/2546.0 1	100 %	0.241	0.122	0.09	23.52	24.50	1.253	0.302	22.2
Back side	100	QPSK 1_271	509202/2546.0 1	100 %	0.474	0.234	0.03	23.52	24.50	1.253	0.594	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	513900/2569.5	100 %	0.232	0.118	0.15	23.36	24.50	1.300	0.302	22.2
Back side	100	QPSK 135_69	513900/2569.5	100 %	0.450	0.224	-0.14	23.36	24.50	1.300	0.585	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	509202/2546.0 1	100 %	0.101	0.047	-0.17	16.48	17.50	1.265	0.128	22.2
Back side	100	QPSK 1_271	509202/2546.0 1	100 %	0.205	0.095	0.00	16.48	17.50	1.265	0.259	22.2
Left side	100	QPSK 1_271	509202/2546.0 1	100 %	0.316	0.136	-0.10	16.48	17.50	1.265	0.400	22.2
Top side	100	QPSK 1_271	509202/2546.0 1	100 %	0.036	0.021	-0.07	16.48	17.50	1.265	0.046	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	509202/2546.0 1	100 %	0.083	0.041	-0.14	16.38	17.50	1.294	0.107	22.2
Back side	100	QPSK 135_69	509202/2546.0 1	100 %	0.172	0.079	0.18	16.38	17.50	1.294	0.223	22.2
Left side	100	QPSK 135_69	509202/2546.0 1	100 %	0.250	0.106	-0.10	16.38	17.50	1.294	0.324	22.2
Top side	100	QPSK 135_69	509202/2546.0 1	100 %	0.028	0.013	-0.06	16.38	17.50	1.294	0.036	22.2
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	100	QPSK 1_271	509202/2546.0 1	100 %	2.860	1.120	-0.08	17.94	19.00	1.276	1.430	22.2
Left side	100	QPSK 1_271	509202/2546.0 1	100 %	3.410	1.390	0.16	17.94	19.00	1.276	1.774	22.2
Left side	100	QPSK 1_137	513900/2569.5	100 %	3.850	1.410	0.08	17.87	19.00	1.297	1.829	22.2
Left side	100	QPSK 1_137	518598/2592.9 g	100 %	5.240	1.680	0.04	17.88	19.00	1.294	2.174	22.2
Left side	100	QPSK 1_1	523302/2616.5 1	100 %	3.690	1.320	-0.09	17.90	19.00	1.288	1.700	22.2
Left side	100	QPSK 1_137	528000/2640	100 %	3.900	1.400	0.06	17.82	19.00	1.312	1.837	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	100	QPSK 135_69	509202/2546.0 1	100 %	2.670	1.030	-0.13	17.84	19.00	1.306	1.345	22.2
Left side	100	QPSK 135_69	509202/2546.0 1	100 %	3.330	1.200	0.00	17.84	19.00	1.306	1.567	22.2
Left side	100	QPSK 135_69	513900/2569.5	100 %	3.710	1.360	0.05	17.83	19.00	1.309	1.780	22.2
Left side	100	QPSK 135_69	518598/2592.9 g	100 %	4.070	1.470	-0.02	17.80	19.00	1.318	1.938	22.2
Left side	100	QPSK	523302/2616.5	100 %	3.890	1.390	0.12	17.76	19.00	1.330	1.849	22.2



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		135_69	1	%								
Left side	100	QPSK 135_69	528000/2640	100 %	3.920	1.410	0.17	17.76	19.00	1.330	1.876	22.2
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Left side	100	QPSK 270_0	509202/2546.0 1	1:1	3.340	1.040	0.03	16.80	18.00	1.318	1.371	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	100	QPSK 1_271	509202/2546.0 1	100 %	0.742	0.342	0.00	23.47	24.50	1.268	0.434	22.2
Left side 17mm	100	QPSK 1_271	509202/2546.0 1	100 %	0.568	0.279	0.11	23.47	24.50	1.268	0.354	22.2
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	100	QPSK 135_69	513900/2569.5	100 %	0.710	0.321	0.07	23.36	24.50	1.300	0.417	22.2
Left side 17mm	100	QPSK 135_69	513900/2569.5	100 %	0.527	0.259	-0.14	23.36	24.50	1.300	0.337	22.2

Table 28 : SAR of NR Band n41 for Head, Body and Hotspot.



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8.2.19 SAR Result of NR Band n66

N66 SAR Test Record												
Ant 13 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_1	346000/1730	100%	0.231	0.128	0.13	14.22	15.00	1.197	0.276	22.2
Left tilted	40	QPSK 1_1	346000/1730	100%	0.282	0.149	0.18	14.22	15.00	1.197	0.337	22.2
Right cheek	40	QPSK 1_1	346000/1730	100%	0.346	0.187	-0.16	14.22	15.00	1.197	0.414	22.2
Right tilted	40	QPSK 1_1	346000/1730	100%	0.439	0.200	-0.03	14.22	15.00	1.197	0.525	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.249	0.138	0.15	14.32	15.00	1.169	0.291	22.2
Left tilted	40	QPSK 108_54	349000/1745	100%	0.304	0.160	0.07	14.32	15.00	1.169	0.356	22.2
Right cheek	40	QPSK 108_54	349000/1745	100%	0.380	0.207	-0.17	14.32	15.00	1.169	0.444	22.2
Right tilted	40	QPSK 108_54	349000/1745	100%	0.487	0.227	0.10	14.32	15.00	1.169	0.570	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	349000/1745	100%	0.217	0.134	-0.11	23.73	24.50	1.194	0.259	22.2
Back side	40	QPSK 1_1	349000/1745	100%	0.425	0.257	-0.12	23.73	24.50	1.194	0.507	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	349000/1745	100%	0.185	0.114	-0.16	23.77	24.50	1.183	0.219	22.2
Back side	40	QPSK 108_54	349000/1745	100%	0.376	0.209	0.09	23.77	24.50	1.183	0.445	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_108	349000/1745	100%	0.084	0.048	0.06	17.76	18.50	1.186	0.100	22.2
Back side	40	QPSK 1_108	349000/1745	100%	0.126	0.076	-0.03	17.76	18.50	1.186	0.149	22.4
Left side	40	QPSK 1_108	349000/1745	100%	0.024	0.009	-0.10	17.76	18.50	1.186	0.028	22.2
Top side	40	QPSK 1_108	349000/1745	100%	0.094	0.045	0.05	17.76	18.50	1.186	0.111	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	352000/1760	100%	0.074	0.043	0.18	17.75	18.50	1.189	0.088	22.2
Back side	40	QPSK 108_54	352000/1760	100%	0.106	0.064	-0.16	17.75	18.50	1.189	0.126	22.2
Left side	40	QPSK 108_54	352000/1760	100%	0.020	0.007	-0.02	17.75	18.50	1.189	0.024	22.2
Top side	40	QPSK 108_54	352000/1760	100%	0.092	0.045	-0.11	17.75	18.50	1.189	0.109	22.2
Ant 31 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_108	349000/1745	100%	0.049	0.030	-0.08	23.84	24.50	1.164	0.057	22.2
Left tilted	40	QPSK 1_108	349000/1745	100%	0.035	0.022	0.10	23.84	24.50	1.164	0.041	22.2
Right cheek	40	QPSK 1_108	349000/1745	100%	0.047	0.030	-0.11	23.84	24.50	1.164	0.055	22.2



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Right tilted	40	QPSK 1_108	349000/1745	100%	0.043	0.025	0.11	23.84	24.50	1.164	0.050	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.051	0.031	-0.08	23.73	24.50	1.194	0.061	22.2
Left tilted	40	QPSK 108_54	349000/1745	100%	0.040	0.025	0.03	23.73	24.50	1.194	0.048	22.2
Right cheek	40	QPSK 108_54	349000/1745	100%	0.046	0.029	0.10	23.73	24.50	1.194	0.055	22.2
Right tilted	40	QPSK 108_54	349000/1745	100%	0.045	0.027	0.03	23.73	24.50	1.194	0.054	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	349000/1745	100%	0.144	0.086	-0.05	21.30	22.00	1.175	0.169	22.2
Back side	40	QPSK 1_1	349000/1745	100%	0.164	0.103	0.09	21.30	22.00	1.175	0.193	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	346000/1730	100%	0.140	0.085	-0.09	21.22	22.00	1.197	0.168	22.2
Back side	40	QPSK 108_54	346000/1730	100%	0.167	0.105	-0.03	21.22	22.00	1.197	0.200	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_108	349000/1745	100%	0.196	0.114	-0.05	20.38	21.00	1.153	0.226	22.2
Back side	40	QPSK 1_108	349000/1745	100%	0.298	0.170	-0.10	20.38	21.00	1.153	0.344	22.2
Left side	40	QPSK 1_108	349000/1745	100%	0.042	0.024	-0.18	20.38	21.00	1.153	0.048	22.2
Right side	40	QPSK 1_108	349000/1745	100%	0.072	0.039	-0.12	20.38	21.00	1.153	0.083	22.2
Bottom side	40	QPSK 1_108	349000/1745	100%	0.329	0.187	0.08	20.38	21.00	1.153	0.379	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	349000/1745	100%	0.211	0.119	-0.10	20.25	21.00	1.189	0.251	22.2
Back side	40	QPSK 108_54	349000/1745	100%	0.305	0.177	0.02	20.25	21.00	1.189	0.362	22.2
Left side	40	QPSK 108_54	349000/1745	100%	0.043	0.025	0.01	20.25	21.00	1.189	0.051	22.2
Right side	40	QPSK 108_54	349000/1745	100%	0.067	0.037	0.10	20.25	21.00	1.189	0.080	22.2
Bottom side	40	QPSK 108_54	349000/1745	100%	0.342	0.195	-0.06	20.25	21.00	1.189	0.406	22.4
Ant 11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_1	352000/1760	100%	0.306	0.173	-0.12	18.47	19.50	1.268	0.388	22.2
Left tilted	40	QPSK 1_1	352000/1760	100%	0.082	0.051	0.06	18.47	19.50	1.268	0.104	22.2
Right cheek	40	QPSK 1_1	352000/1760	100%	0.575	0.275	0.01	18.47	19.50	1.268	0.729	22.2
Right tilted	40	QPSK 1_1	352000/1760	100%	0.135	0.078	0.10	18.47	19.50	1.268	0.171	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.349	0.194	0.18	18.45	19.50	1.274	0.444	22.2
Left tilted	40	QPSK 108_54	349000/1745	100%	0.091	0.057	-0.05	18.45	19.50	1.274	0.116	22.2
Right cheek	40	QPSK 108_54	349000/1745	100%	0.593	0.283	0.01	18.45	19.50	1.274	0.755	22.2
Right tilted	40	QPSK 108_54	349000/1745	100%	0.132	0.077	0.19	18.45	19.50	1.274	0.168	22.2



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Head Test Data (1RB) DSI 3 with ENDC												
Left cheek	40	QPSK 1_1	352000/1760	100%	0.306	0.173	-0.12	18.47	15.50	0.505	0.154	22.2
Left tilted	40	QPSK 1_1	352000/1760	100%	0.082	0.051	0.06	18.47	15.50	0.505	0.041	22.2
Right cheek	40	QPSK 1_1	352000/1760	100%	0.575	0.275	0.01	18.47	15.50	0.505	0.290	22.2
Right tilted	40	QPSK 1_1	352000/1760	100%	0.135	0.078	0.10	18.47	15.50	0.505	0.068	22.2
Head Test Data (50%RB) DSI 3 with ENDC												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.349	0.194	0.18	18.45	15.50	0.507	0.177	22.2
Left tilted	40	QPSK 108_54	349000/1745	100%	0.091	0.057	-0.05	18.45	15.50	0.507	0.046	22.2
Right cheek	40	QPSK 108_54	349000/1745	100%	0.593	0.283	0.01	18.45	15.50	0.507	0.301	22.2
Right tilted	40	QPSK 108_54	349000/1745	100%	0.132	0.077	0.19	18.45	15.50	0.507	0.067	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	352000/1760	100%	0.243	0.134	-0.14	23.46	24.50	1.271	0.309	22.2
Back side	40	QPSK 1_1	352000/1760	100%	0.308	0.169	-0.06	23.46	24.50	1.271	0.391	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	352000/1760	100%	0.237	0.129	-0.08	23.44	24.50	1.276	0.303	22.2
Back side	40	QPSK 108_54	352000/1760	100%	0.314	0.173	-0.05	23.44	24.50	1.276	0.401	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	352000/1760	100%	0.253	0.129	0.13	19.98	21.00	1.265	0.320	22.2
Back side	40	QPSK 1_1	352000/1760	100%	0.392	0.196	0.08	19.98	21.00	1.265	0.496	22.2
Left side	40	QPSK 1_1	352000/1760	100%	0.432	0.215	0.09	19.98	21.00	1.265	0.546	22.2
Top side	40	QPSK 1_1	352000/1760	100%	0.049	0.030	0.09	19.98	21.00	1.265	0.062	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	352000/1760	100%	0.256	0.129	-0.08	19.90	21.00	1.288	0.330	22.2
Back side	40	QPSK 108_54	352000/1760	100%	0.393	0.196	0.08	19.90	21.00	1.288	0.506	22.2
Left side	40	QPSK 108_54	352000/1760	100%	0.475	0.234	0.07	19.90	21.00	1.288	0.612	22.2
Top side	40	QPSK 108_54	352000/1760	100%	0.056	0.035	-0.06	19.90	21.00	1.288	0.072	22.2
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg)1 -g	SAR (W/kg)10 -g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	40	QPSK 1_108	352000/1760	100%	4.370	1.740	-0.10	20.94	22.00	1.276	2.221	22.2
Left side	40	QPSK 1_108	346000/1730	100%	5.110	1.750	0.02	20.89	22.00	1.291	2.260	22.2
Left side	40	QPSK 1_108	349000/1745	100%	5.010	1.880	-0.15	20.86	22.00	1.300	2.444	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	40	QPSK 108_54	352000/1760	100%	4.850	1.860	0.09	20.97	22.00	1.268	2.358	22.2
Left side	40	QPSK 108_54	346000/1730	100%	5.050	1.930	-0.10	20.90	22.00	1.288	2.486	22.2
Left side	40	QPSK 108_54	349000/1745	100%	5.010	1.880	-0.19	20.90	22.00	1.288	2.422	22.2
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												



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Left side	40	QPSK 216_0	352000/1760	1:1	3.310	1.430	-0.15	19.96	21.00	1.271	1.817	22.2
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Left side 17mm	40	QPSK 1_1	352000/1760	1:1	0.433	0.233	-0.14	23.46	24.50	1.271	0.296	22.2
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Left side 17mm	40	QPSK 1_1	352000/1760	1:1	0.472	0.256	0.09	23.44	24.50	1.276	0.327	22.2

Table 29 : SAR of NR Band n66 for Head, Body and Hotspot.



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8.2.20 SAR Result of NR Band n77(3450-3550)

N77 SAR Test Record												
Ant 11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.186	0.090	-0.06	15.91	17.00	1.285	0.239	22.1
Left tilted	100	QPSK 1_1	633334/3500	100%	0.057	0.028	-0.01	15.91	17.00	1.285	0.073	22.1
Right cheek	100	QPSK 1_1	633334/3500	100%	0.579	0.211	-0.01	15.91	17.00	1.285	0.744	22.1
Right tilted	100	QPSK 1_1	633334/3500	100%	0.115	0.053	0.01	15.91	17.00	1.285	0.148	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.190	0.095	-0.08	16.03	17.00	1.250	0.238	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.069	0.029	-0.18	16.03	17.00	1.250	0.086	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.615	0.226	0.10	16.03	17.00	1.250	0.769	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.129	0.060	0.02	16.03	17.00	1.250	0.161	22.1
Head Test Data (1RB) DSI 3 with ENDC												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.186	0.090	-0.06	15.91	13.00	0.512	0.095	22.1
Left tilted	100	QPSK 1_1	633334/3500	100%	0.057	0.028	-0.01	15.91	13.00	0.512	0.029	22.1
Right cheek	100	QPSK 1_1	633334/3500	100%	0.579	0.211	-0.01	15.91	13.00	0.512	0.296	22.1
Right tilted	100	QPSK 1_1	633334/3500	100%	0.115	0.053	0.01	15.91	13.00	0.512	0.059	22.1
Head Test Data (50%RB) DSI 3 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.190	0.095	-0.08	16.03	13.00	0.498	0.095	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.069	0.029	-0.18	16.03	13.00	0.498	0.034	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.615	0.226	0.10	16.03	13.00	0.498	0.306	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.129	0.060	0.02	16.03	13.00	0.498	0.064	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	633334/3500	100%	0.337	0.158	0.06	23.38	24.50	1.294	0.436	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.532	0.255	-0.03	23.38	24.50	1.294	0.689	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.370	0.174	0.17	23.35	24.50	1.303	0.482	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.579	0.275	-0.05	23.35	24.50	1.303	0.755	22.3
Body worn Test data (Separate 15mm 1RB) DSI 8 with ENDC												
Front side	100	QPSK 1_1	633334/3500	100%	0.337	0.158	0.06	23.38	16.00	0.183	0.062	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.532	0.255	-0.03	23.38	16.00	0.183	0.097	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.370	0.174	0.17	23.35	16.00	0.184	0.068	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.579	0.275	-0.05	23.35	16.00	0.184	0.107	22.3



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Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	633334/3500	100%	0.177	0.078	-0.19	17.85	19.00	1.303	0.231	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.289	0.133	0.18	17.85	19.00	1.303	0.377	22.1
Left side	100	QPSK 1_1	633334/3500	100%	0.490	0.208	0.19	17.85	19.00	1.303	0.639	22.1
Top side	100	QPSK 1_1	633334/3500	100%	0.053	0.020	0.01	17.85	19.00	1.303	0.069	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.190	0.085	-0.02	17.89	19.00	1.291	0.245	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.317	0.147	0.16	17.89	19.00	1.291	0.409	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.563	0.232	0.09	17.89	19.00	1.291	0.727	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.041	0.017	0.19	17.89	19.00	1.291	0.053	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	100	QPSK 1_1	633334/3500	100%	0.177	0.078	-0.19	17.85	16.00	0.653	0.116	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.289	0.133	0.18	17.85	16.00	0.653	0.189	22.1
Left side	100	QPSK 1_1	633334/3500	100%	0.490	0.208	0.19	17.85	16.00	0.653	0.320	22.1
Top side	100	QPSK 1_1	633334/3500	100%	0.053	0.020	0.01	17.85	16.00	0.653	0.035	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.190	0.085	-0.02	17.89	16.00	0.647	0.123	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.317	0.147	0.16	17.89	16.00	0.647	0.205	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.563	0.232	0.09	17.89	16.00	0.647	0.364	22.3
Top side	100	QPSK 135_69	633334/3500	100%	0.041	0.017	0.19	17.89	16.00	0.647	0.027	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	100	QPSK 1_1	633334/3500	100%	4.880	1.540	-0.13	19.89	21.00	1.291	1.988	22.1
Left side	100	QPSK 1_1	633334/3500	100%	3.020	0.969	-0.14	19.89	21.00	1.291	1.251	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	100	QPSK 135_69	633334/3500	100%	4.770	1.570	0.02	19.83	21.00	1.309	2.055	22.3
Left side	100	QPSK 135_69	633334/3500	100%	3.140	1.040	-0.01	19.83	21.00	1.309	1.362	22.1
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Back side	100	QPSK 270_0	633334/3500	100%	4.090	1.280	-0.05	18.63	20.00	1.371	1.755	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5 with ENDC												
Back side	100	QPSK 1_1	633334/3500	100%	4.880	1.540	-0.13	19.89	19.50	0.914	1.408	22.1
Left side	100	QPSK 1_1	633334/3500	100%	3.020	0.969	-0.14	19.89	19.50	0.914	0.886	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5 with ENDC												
Back side	100	QPSK 135_69	633334/3500	100%	4.770	1.570	0.02	19.83	19.50	0.927	1.455	22.3
Left side	100	QPSK 135_69	633334/3500	100%	3.140	1.040	-0.01	19.83	19.50	0.927	0.964	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side	100	QPSK 1_1	633334/3500	100%	0.656	0.320	-0.16	23.38	24.50	1.294	0.414	22.1



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13mm												
Left side 17mm	100	QPSK 1_1	633334/3500	100%	0.787	0.362	-0.09	23.38	24.50	1.294	0.468	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	100	QPSK 135_69	633334/3500	100%	0.732	0.352	-0.04	23.35	24.50	1.303	0.459	22.1
Left side 17mm	100	QPSK 135_69	633334/3500	100%	0.852	0.389	0.07	23.35	24.50	1.303	0.507	22.1
Ant 12 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.302	0.141	0.18	17.44	18.00	1.138	0.344	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.263	0.118	-0.14	17.44	18.00	1.138	0.299	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.744	0.317	-0.08	17.44	18.00	1.138	0.846	22.3
Right tilted	100	QPSK 1_271	633334/3500	100%	0.488	0.224	0.15	17.44	18.00	1.138	0.555	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.268	0.125	0.16	17.34	18.00	1.164	0.312	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.237	0.106	0.06	17.34	18.00	1.164	0.276	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.685	0.300	-0.08	17.34	18.00	1.164	0.797	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.448	0.203	0.18	17.34	18.00	1.164	0.522	22.1
Head Test Data (100%RB) DSI 2												
Right cheek	100	QPSK 270_0	633334/3500	100%	0.533	0.233	0.16	16.30	17.00	1.175	0.626	22.1
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.302	0.141	0.18	17.44	17.00	0.904	0.273	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.263	0.118	-0.14	17.44	17.00	0.904	0.238	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.744	0.317	-0.08	17.44	17.00	0.904	0.672	22.3
Right tilted	100	QPSK 1_271	633334/3500	100%	0.488	0.224	0.15	17.44	17.00	0.904	0.441	22.1
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.268	0.125	0.16	17.34	17.00	0.925	0.248	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.237	0.106	0.06	17.34	17.00	0.925	0.219	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.685	0.300	-0.08	17.34	17.00	0.925	0.633	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.448	0.203	0.18	17.34	17.00	0.925	0.414	22.1
Head Test Data (1RB) DSI 3 with ENDC												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.302	0.141	0.18	17.44	14.00	0.453	0.137	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.263	0.118	-0.14	17.44	14.00	0.453	0.119	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.744	0.317	-0.08	17.44	14.00	0.453	0.337	22.3
Right tilted	100	QPSK 1_271	633334/3500	100%	0.488	0.224	0.15	17.44	14.00	0.453	0.221	22.1
Head Test Data (50%RB) DSI 3 with ENDC												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.268	0.125	0.16	17.34	14.00	0.463	0.124	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.237	0.106	0.06	17.34	14.00	0.463	0.110	22.1



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Right cheek	100	QPSK 135_69	633334/3500	100%	0.685	0.300	-0.08	17.34	14.00	0.463	0.317	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.448	0.203	0.18	17.34	14.00	0.463	0.208	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	633334/3500	100%	0.396	0.189	-0.17	22.93	23.50	1.140	0.452	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.593	0.269	-0.01	22.93	23.50	1.140	0.676	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.365	0.173	0.07	22.81	23.50	1.172	0.428	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.568	0.261	-0.12	22.81	23.50	1.172	0.666	22.1
Body worn Test data (Separate 15mm 1RB) DSI 8 with ENDC												
Front side	100	QPSK 1_271	633334/3500	100%	0.396	0.189	-0.17	22.93	15.50	0.181	0.072	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.593	0.269	-0.01	22.93	15.50	0.181	0.107	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.365	0.173	0.07	22.81	15.50	0.186	0.068	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.568	0.261	-0.12	22.81	15.50	0.186	0.106	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	633334/3500	100%	0.239	0.110	-0.03	17.89	18.50	1.151	0.275	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.372	0.164	0.10	17.89	18.50	1.151	0.428	22.1
Left side	100	QPSK 1_271	633334/3500	100%	0.231	0.102	-0.19	17.89	18.50	1.151	0.266	22.1
Top side	100	QPSK 1_271	633334/3500	100%	0.146	0.069	-0.04	17.89	18.50	1.151	0.168	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.214	0.099	-0.08	17.76	18.50	1.186	0.254	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.370	0.164	0.01	17.76	18.50	1.186	0.439	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.234	0.102	-0.15	17.76	18.50	1.186	0.277	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.162	0.076	0.15	17.76	18.50	1.186	0.192	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	100	QPSK 1_271	633334/3500	100%	0.239	0.110	-0.03	17.89	15.50	0.577	0.138	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.372	0.164	0.10	17.89	15.50	0.577	0.215	22.1
Left side	100	QPSK 1_271	633334/3500	100%	0.231	0.102	-0.19	17.89	15.50	0.577	0.133	22.1
Top side	100	QPSK 1_271	633334/3500	100%	0.146	0.069	-0.04	17.89	15.50	0.577	0.084	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	100	QPSK 135_69	633334/3500	100%	0.214	0.099	-0.08	17.76	15.50	0.594	0.127	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.370	0.164	0.01	17.76	15.50	0.594	0.220	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.234	0.102	-0.15	17.76	15.50	0.594	0.139	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.162	0.076	0.15	17.76	15.50	0.594	0.096	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) ¹ -g	SAR (W/kg) ¹⁰ -g	Power drift (dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												



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Back side	100	QPSK 1_271	633334/3500	100%	3.490	1.400	-0.01	19.45	20.00	1.135	1.589	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	100	QPSK 135_69	633334/3500	100%	4.000	1.460	0.10	19.34	20.00	1.164	1.700	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5 with ENDC												
Back side	100	QPSK 1_271	633334/3500	100%	3.490	1.400	-0.01	19.45	18.50	0.804	1.125	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5 with ENDC												
Back side	100	QPSK 135_69	633334/3500	100%	4.000	1.460	0.10	19.34	18.50	0.824	1.203	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Back side 13mm	100	QPSK 1_271	633334/3500	100%	0.819	0.370	-0.10	22.93	23.50	1.140	0.422	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Back side 13mm	100	QPSK 135_69	633334/3500	100%	0.817	0.367	-0.12	22.81	23.50	1.172	0.430	22.1
Ant 21 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.348	0.141	0.14	12.82	13.50	1.169	0.407	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.419	0.162	0.17	12.82	13.50	1.169	0.490	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.204	0.085	-0.18	12.82	13.50	1.169	0.239	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.253	0.107	0.12	12.82	13.50	1.169	0.296	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.336	0.136	0.03	12.62	13.50	1.225	0.411	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.403	0.156	0.06	12.62	13.50	1.225	0.494	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.197	0.082	-0.12	12.62	13.50	1.225	0.241	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.224	0.091	0.18	12.62	13.50	1.225	0.274	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	633334/3500	100%	0.128	0.059	0.15	17.30	18.00	1.175	0.150	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.238	0.104	-0.07	17.30	18.00	1.175	0.280	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.113	0.052	0.16	17.07	18.00	1.239	0.140	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.208	0.091	0.07	17.07	18.00	1.239	0.258	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	633334/3500	100%	0.182	0.076	-0.11	15.85	16.50	1.161	0.211	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.311	0.127	-0.08	15.85	16.50	1.161	0.361	22.1
Right side	100	QPSK 1_271	633334/3500	100%	0.055	0.027	-0.06	15.85	16.50	1.161	0.064	22.1
Top side	100	QPSK 1_271	633334/3500	100%	0.322	0.131	-0.14	15.85	16.50	1.161	0.374	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.169	0.072	0.07	15.59	16.50	1.233	0.208	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.285	0.117	0.15	15.59	16.50	1.233	0.351	22.1



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Right side	100	QPSK 135 69	633334/3500	100%	0.051	0.025	0.11	15.59	16.50	1.233	0.063	22.1
Top side	100	QPSK 135 69	633334/3500	100%	0.319	0.129	0.00	15.59	16.50	1.233	0.393	22.1
Ant 23 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.347	0.139	-0.16	14.64	16.00	1.368	0.475	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.141	0.062	0.00	14.64	16.00	1.368	0.193	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.100	0.048	0.09	14.64	16.00	1.368	0.137	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.072	0.032	0.14	14.64	16.00	1.368	0.098	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135 69	633334/3500	100%	0.380	0.153	0.04	14.49	16.00	1.416	0.538	22.1
Left tilted	100	QPSK 135 69	633334/3500	100%	0.153	0.068	-0.04	14.49	16.00	1.416	0.217	22.1
Right cheek	100	QPSK 135 69	633334/3500	100%	0.116	0.056	0.12	14.49	16.00	1.416	0.164	22.1
Right tilted	100	QPSK 135 69	633334/3500	100%	0.085	0.038	0.16	14.49	16.00	1.416	0.120	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	633334/3500	100%	0.070	0.036	-0.10	17.60	19.00	1.380	0.097	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.130	0.063	0.17	17.60	19.00	1.380	0.179	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135 69	633334/3500	100%	0.068	0.033	0.13	17.44	19.00	1.432	0.097	22.1
Back side	100	QPSK 135 69	633334/3500	100%	0.120	0.059	0.03	17.44	19.00	1.432	0.172	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	633334/3500	100%	0.109	0.047	0.13	16.05	17.50	1.396	0.152	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.130	0.064	0.02	16.05	17.50	1.396	0.182	22.1
Right side	100	QPSK 1_1	633334/3500	100%	0.195	0.083	-0.01	16.05	17.50	1.396	0.272	22.1
Top side	100	QPSK 1_1	633334/3500	100%	0.057	0.027	-0.08	16.05	17.50	1.396	0.080	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135 69	633334/3500	100%	0.087	0.040	0.16	15.96	17.50	1.426	0.124	22.1
Back side	100	QPSK 135 69	633334/3500	100%	0.123	0.060	0.05	15.96	17.50	1.426	0.175	22.1
Right side	100	QPSK 135 69	633334/3500	100%	0.184	0.078	-0.16	15.96	17.50	1.426	0.262	22.1
Top side	100	QPSK 135 69	633334/3500	100%	0.055	0.025	0.14	15.96	17.50	1.426	0.078	22.1

Table 30 : SAR of NR Band n77(3450-3550) for Head, Body and Hotspot.



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8.2.21 SAR Result of NR Band n77(3700-3980)

N77 SAR Test Record												
Ant 11 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.162	0.078	-0.09	16.38	17.00	1.153	0.187	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	0.053	0.026	-0.11	16.38	17.00	1.153	0.061	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.489	0.178	-0.13	16.38	17.00	1.153	0.564	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.108	0.046	-0.17	16.38	17.00	1.153	0.125	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.603	0.220	0.03	15.97	17.00	1.268	0.764	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.487	0.179	-0.11	16.31	17.00	1.172	0.571	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.463	0.169	-0.05	16.31	17.00	1.172	0.543	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.499	0.181	-0.16	16.29	17.00	1.178	0.588	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.470	0.170	0.00	16.23	17.00	1.194	0.561	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.158	0.076	0.03	16.14	17.00	1.219	0.193	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.050	0.024	-0.17	16.14	17.00	1.219	0.061	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.481	0.175	0.17	16.14	17.00	1.219	0.586	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.103	0.044	-0.04	16.14	17.00	1.219	0.126	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.549	0.200	-0.04	15.64	17.00	1.368	0.751	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.530	0.193	0.13	15.81	17.00	1.315	0.697	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.497	0.181	0.10	16.03	17.00	1.250	0.621	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.452	0.164	0.05	16.03	17.00	1.250	0.565	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.438	0.159	-0.17	15.90	17.00	1.288	0.564	22.1
Head Test Data (1RB) DSI 3 with ENDC												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.162	0.078	-0.09	16.38	13.00	0.459	0.074	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	0.053	0.026	-0.11	16.38	13.00	0.459	0.024	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.489	0.178	-0.13	16.38	13.00	0.459	0.225	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.108	0.046	-0.17	16.38	13.00	0.459	0.050	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.603	0.220	0.03	15.97	13.00	0.505	0.304	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.487	0.179	-0.11	16.31	13.00	0.467	0.227	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.463	0.169	-0.05	16.31	13.00	0.467	0.216	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.499	0.181	-0.16	16.29	13.00	0.469	0.234	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.470	0.170	0.00	16.23	13.00	0.475	0.223	22.1
Head Test Data (50%RB) DSI 3 with ENDC												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.158	0.076	0.03	16.14	13.00	0.485	0.077	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.050	0.024	-0.17	16.14	13.00	0.485	0.024	22.1



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Right cheek	100	QPSK 135_69	657200/3858	100%	0.481	0.175	0.17	16.14	13.00	0.485	0.233	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.103	0.044	-0.04	16.14	13.00	0.485	0.050	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.549	0.200	-0.04	15.64	13.00	0.545	0.299	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.530	0.193	0.13	15.81	13.00	0.524	0.278	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.497	0.181	0.10	16.03	13.00	0.498	0.247	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.452	0.164	0.05	16.03	13.00	0.498	0.225	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.438	0.159	-0.17	15.90	13.00	0.513	0.225	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	657200/3858	100%	0.318	0.141	0.11	23.80	24.50	1.175	0.374	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.377	0.170	0.17	23.80	24.50	1.175	0.443	22.1
Back side	100	QPSK 1_1	650000/3750	100%	0.503	0.227	0.08	23.33	24.50	1.309	0.659	22.1
Back side	100	QPSK 1_271	652400/3786	100%	0.381	0.171	-0.16	23.70	24.50	1.202	0.458	22.1
Back side	100	QPSK 1_271	654800/3822	100%	0.358	0.160	0.03	23.76	24.50	1.186	0.425	22.1
Back side	100	QPSK 1_1	659600/3894	100%	0.385	0.171	-0.11	23.72	24.50	1.197	0.461	22.1
Back side	100	QPSK 1_1	662000/3930	100%	0.365	0.162	-0.15	23.66	24.50	1.213	0.443	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	657200/3858	100%	0.308	0.137	-0.11	23.59	24.50	1.233	0.380	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.366	0.163	0.15	23.59	24.50	1.233	0.451	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.444	0.200	-0.17	23.03	24.50	1.403	0.623	22.1
Back side	100	QPSK 135_69	652400/3786	100%	0.403	0.181	-0.18	23.21	24.50	1.346	0.542	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.389	0.174	0.08	23.45	24.50	1.274	0.495	22.1
Back side	100	QPSK 135_69	659600/3894	100%	0.337	0.151	-0.15	23.41	24.50	1.285	0.433	22.1
Back side	100	QPSK 135_69	662000/3930	100%	0.317	0.141	-0.17	23.27	24.50	1.327	0.421	22.1
Body worn Test data (Separate 15mm 1RB) DSI 8 with ENDC												
Front side	100	QPSK 1_137	657200/3858	100%	0.318	0.141	0.11	23.80	16.00	0.166	0.053	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.377	0.170	0.17	23.80	16.00	0.166	0.063	22.1
Back side	100	QPSK 1_1	650000/3750	100%	0.503	0.227	0.08	23.33	16.00	0.185	0.093	22.1
Back side	100	QPSK 1_271	652400/3786	100%	0.381	0.171	-0.16	23.70	16.00	0.170	0.065	22.1
Back side	100	QPSK 1_271	654800/3822	100%	0.358	0.160	0.03	23.76	16.00	0.167	0.060	22.1
Back side	100	QPSK 1_1	659600/3894	100%	0.385	0.171	-0.11	23.72	16.00	0.169	0.065	22.1
Back side	100	QPSK 1_1	662000/3930	100%	0.365	0.162	-0.15	23.66	16.00	0.171	0.063	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	657200/3858	100%	0.308	0.137	-0.11	23.59	16.00	0.174	0.054	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.366	0.163	0.15	23.59	16.00	0.174	0.064	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.444	0.200	-0.17	23.03	16.00	0.198	0.088	22.1
Back side	100	QPSK 135_69	652400/3786	100%	0.403	0.181	-0.18	23.21	16.00	0.190	0.077	22.1



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Back side	100	QPSK 135_69	654800/3822	100%	0.389	0.174	0.08	23.45	16.00	0.180	0.070	22.1
Back side	100	QPSK 135_69	659600/3894	100%	0.337	0.151	-0.15	23.41	16.00	0.182	0.061	22.1
Back side	100	QPSK 135_69	662000/3930	100%	0.317	0.141	-0.17	23.27	16.00	0.187	0.059	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	657200/3858	100%	0.161	0.068	0.09	18.27	19.00	1.183	0.190	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.227	0.098	-0.09	18.27	19.00	1.183	0.269	22.1
Left side	100	QPSK 1_137	657200/3858	100%	0.311	0.120	-0.04	18.27	19.00	1.183	0.368	22.1
Top side	100	QPSK 1_137	657200/3858	100%	0.050	0.014	-0.06	18.27	19.00	1.183	0.059	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	657200/3858	100%	0.157	0.066	0.09	18.11	19.00	1.227	0.193	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.220	0.095	0.06	18.11	19.00	1.227	0.270	22.1
Left side	100	QPSK 135_69	657200/3858	100%	0.298	0.115	0.17	18.11	19.00	1.227	0.366	22.1
Top side	100	QPSK 135_69	657200/3858	100%	0.060	0.020	-0.07	18.11	19.00	1.227	0.074	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10 with END C												
Front side	100	QPSK 1_137	657200/3858	100%	0.161	0.068	0.09	18.27	16.00	0.593	0.095	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.227	0.098	-0.09	18.27	16.00	0.593	0.135	22.1
Left side	100	QPSK 1_137	657200/3858	100%	0.311	0.120	-0.04	18.27	16.00	0.593	0.184	22.1
Top side	100	QPSK 1_137	657200/3858	100%	0.050	0.014	-0.06	18.27	16.00	0.593	0.030	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with END C												
Front side	100	QPSK 135_69	657200/3858	100%	0.157	0.066	0.09	18.11	16.00	0.615	0.097	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.220	0.095	0.06	18.11	16.00	0.615	0.135	22.1
Left side	100	QPSK 135_69	657200/3858	100%	0.298	0.115	0.17	18.11	16.00	0.615	0.183	22.1
Top side	100	QPSK 135_69	657200/3858	100%	0.060	0.020	-0.07	18.11	16.00	0.615	0.037	22.1
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power drift (dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	100	QPSK 1_137	657200/3858	100%	3.580	1.300	0.01	20.27	21.00	1.183	1.538	22.1
Left side	100	QPSK 1_1	650000/3750	100%	3.760	1.320	0.04	19.86	21.00	1.300	1.716	22.1
Left side	100	QPSK 1_271	652400/3786	100%	3.590	1.300	-0.04	20.25	21.00	1.189	1.545	22.1
Left side	100	QPSK 1_271	654800/3822	100%	3.540	1.290	-0.01	20.24	21.00	1.191	1.537	22.1
Left side	100	QPSK 1_137	659600/3894	100%	3.500	1.280	-0.12	20.19	21.00	1.205	1.542	22.1
Left side	100	QPSK 1_1	662000/3930	100%	3.510	1.280	0.02	20.20	21.00	1.202	1.539	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	100	QPSK 135_69	657200/3858	100%	3.580	1.300	-0.03	20.14	21.00	1.219	1.585	22.1
Left side	100	QPSK 135_69	650000/3750	100%	3.770	1.340	-0.10	19.56	21.00	1.393	1.867	22.1
Left side	100	QPSK 135_69	652400/3786	100%	3.630	1.300	0.12	19.66	21.00	1.361	1.770	22.1
Left side	100	QPSK	654800/3822	100%	3.510	1.260	-0.18	19.90	21.00	1.288	1.623	22.1



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		135_69										
Left side	100	QPSK 135_69	659600/3894	100%	3.460	1.270	-0.14	19.95	21.00	1.274	1.617	22.1
Left side	100	QPSK 135_69	662000/3930	100%	3.310	1.220	0.03	19.81	21.00	1.315	1.605	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5 with ENDC												
Left side	100	QPSK 1_137	657200/3858	100%	3.580	1.300	0.01	20.27	19.50	0.838	1.089	22.1
Left side	100	QPSK 1_1	650000/3750	100%	3.760	1.320	0.04	19.86	19.50	0.920	1.215	22.1
Left side	100	QPSK 1_271	652400/3786	100%	3.590	1.300	-0.04	20.25	19.50	0.841	1.094	22.1
Left side	100	QPSK 1_271	654800/3822	100%	3.540	1.290	-0.01	20.24	19.50	0.843	1.088	22.1
Left side	100	QPSK 1_137	659600/3894	100%	3.500	1.280	-0.12	20.19	19.50	0.853	1.092	22.1
Left side	100	QPSK 1_1	662000/3930	100%	3.510	1.280	0.02	20.20	19.50	0.851	1.089	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5 with ENDC												
Left side	100	QPSK 135_69	657200/3858	100%	3.580	1.300	-0.03	20.14	19.50	0.863	1.122	22.1
Left side	100	QPSK 135_69	650000/3750	100%	3.770	1.340	-0.10	19.56	19.50	0.986	1.322	22.1
Left side	100	QPSK 135_69	652400/3786	100%	3.630	1.300	0.12	19.66	19.50	0.964	1.253	22.1
Left side	100	QPSK 135_69	654800/3822	100%	3.510	1.260	-0.18	19.90	19.50	0.912	1.149	22.1
Left side	100	QPSK 135_69	659600/3894	100%	3.460	1.270	-0.14	19.95	19.50	0.902	1.145	22.1
Left side	100	QPSK 135_69	662000/3930	100%	3.310	1.220	0.03	19.81	19.50	0.931	1.136	22.1
Product specific 10g SAR Test data (1RB) Sensor off DSI 4												
Left side 17mm	100	QPSK 1_137	657200/3858	100%	0.417	0.184	0.06	23.80	24.50	1.175	0.216	22.1
Product specific 10g SAR Test data (50%RB) Sensor off DSI 4												
Left side 17mm	100	QPSK 135_69	657200/3858	100%	0.403	0.177	0.11	23.59	24.50	1.233	0.218	22.1
Ant 12 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Powe r drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.162	0.073	-0.06	17.71	18.00	1.069	0.173	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	0.140	0.060	0.04	17.71	18.00	1.069	0.150	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.465	0.189	0.12	17.71	18.00	1.069	0.497	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.219	0.098	-0.06	17.71	18.00	1.069	0.234	22.1
Right cheek	100	QPSK 1_271	650000/3750	100%	0.495	0.206	0.18	17.31	18.00	1.172	0.580	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.480	0.197	0.13	17.68	18.00	1.076	0.517	22.1
Right cheek	100	QPSK 1_137	654800/3822	100%	0.503	0.207	0.08	17.61	18.00	1.094	0.550	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.481	0.196	-0.01	17.68	18.00	1.076	0.518	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.407	0.163	0.11	17.44	18.00	1.138	0.463	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.161	0.072	-0.10	17.56	18.00	1.107	0.178	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.137	0.059	-0.12	17.56	18.00	1.107	0.152	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.440	0.179	-0.18	17.56	18.00	1.107	0.487	22.1



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Right tilted	100	QPSK 135_69	657200/3858	100%	0.207	0.094	0.04	17.56	18.00	1.107	0.229	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.585	0.246	-0.07	17.24	18.00	1.191	0.697	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.536	0.224	-0.14	17.36	18.00	1.159	0.621	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.488	0.200	0.01	17.46	18.00	1.132	0.553	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.383	0.153	-0.13	17.30	18.00	1.175	0.450	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.337	0.134	0.10	17.04	18.00	1.247	0.420	22.1
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.162	0.073	-0.06	17.71	17.00	0.849	0.138	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	0.140	0.060	0.04	17.71	17.00	0.849	0.119	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.465	0.189	0.12	17.71	17.00	0.849	0.395	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.219	0.098	-0.06	17.71	17.00	0.849	0.186	22.1
Right cheek	100	QPSK 1_271	650000/3750	100%	0.495	0.206	0.18	17.31	17.00	0.931	0.461	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.480	0.197	0.13	17.68	17.00	0.855	0.410	22.1
Right cheek	100	QPSK 1_137	654800/3822	100%	0.503	0.207	0.08	17.61	17.00	0.869	0.437	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.481	0.196	-0.01	17.68	17.00	0.855	0.411	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.407	0.163	0.11	17.44	17.00	0.904	0.368	22.1
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.161	0.072	-0.10	17.56	17.00	0.879	0.142	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.137	0.059	-0.12	17.56	17.00	0.879	0.120	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.440	0.179	-0.18	17.56	17.00	0.879	0.387	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.207	0.094	0.04	17.56	17.00	0.879	0.182	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.585	0.246	-0.07	17.24	17.00	0.946	0.554	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.536	0.224	-0.14	17.36	17.00	0.920	0.493	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.488	0.200	0.01	17.46	17.00	0.899	0.439	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.383	0.153	-0.13	17.30	17.00	0.933	0.357	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.337	0.134	0.10	17.04	17.00	0.991	0.334	22.1
Head Test Data (1RB) DSI 3 with ENDC												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.162	0.073	-0.06	17.71	14.00	0.426	0.069	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	0.140	0.060	0.04	17.71	14.00	0.426	0.060	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.465	0.189	0.12	17.71	14.00	0.426	0.198	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.219	0.098	-0.06	17.71	14.00	0.426	0.093	22.1
Right cheek	100	QPSK 1_271	650000/3750	100%	0.495	0.206	0.18	17.31	14.00	0.467	0.231	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.480	0.197	0.13	17.68	14.00	0.429	0.206	22.1
Right cheek	100	QPSK 1_137	654800/3822	100%	0.503	0.207	0.08	17.61	14.00	0.436	0.219	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.481	0.196	-0.01	17.68	14.00	0.429	0.206	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.407	0.163	0.11	17.44	14.00	0.453	0.184	22.1
Head Test Data (50%RB) DSI 3 with ENDC												



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Left cheek	100	QPSK 135_69	657200/3858	100%	0.161	0.072	-0.10	17.56	14.00	0.441	0.071	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.137	0.059	-0.12	17.56	14.00	0.441	0.060	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.440	0.179	-0.18	17.56	14.00	0.441	0.194	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.207	0.094	0.04	17.56	14.00	0.441	0.091	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.585	0.246	-0.07	17.24	14.00	0.474	0.277	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.536	0.224	-0.14	17.36	14.00	0.461	0.247	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.488	0.200	0.01	17.46	14.00	0.451	0.220	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.383	0.153	-0.13	17.30	14.00	0.468	0.179	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.337	0.134	0.10	17.04	14.00	0.497	0.167	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	657200/3858	100%	0.213	0.098	-0.09	23.24	23.50	1.062	0.226	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.250	0.116	0.14	23.24	23.50	1.062	0.265	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	657200/3858	100%	0.201	0.092	0.03	23.03	23.50	1.114	0.224	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.250	0.115	-0.01	23.03	23.50	1.114	0.279	22.1
Body worn Test data (Separate 15mm 1RB) DSI 8 with ENDC												
Front side	100	QPSK 1_137	657200/3858	100%	0.213	0.098	-0.09	23.24	15.50	0.168	0.036	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.250	0.116	0.14	23.24	15.50	0.168	0.042	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 8 with ENDC												
Front side	100	QPSK 135_69	657200/3858	100%	0.201	0.092	0.03	23.03	15.50	0.177	0.035	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.250	0.115	-0.01	23.03	15.50	0.177	0.044	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	657200/3858	100%	0.124	0.054	-0.09	18.28	18.50	1.052	0.130	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.156	0.069	-0.13	18.28	18.50	1.052	0.164	22.1
Left side	100	QPSK 1_137	657200/3858	100%	0.157	0.066	0.17	18.28	18.50	1.052	0.165	22.1
Top side	100	QPSK 1_137	657200/3858	100%	0.060	0.026	-0.05	18.28	18.50	1.052	0.063	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	657200/3858	100%	0.121	0.053	0.13	18.00	18.50	1.122	0.136	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.147	0.066	-0.08	18.00	18.50	1.122	0.165	22.1
Left side	100	QPSK 135_69	657200/3858	100%	0.154	0.064	-0.07	18.00	18.50	1.122	0.173	22.1
Top side	100	QPSK 135_69	657200/3858	100%	0.057	0.025	0.14	18.00	18.50	1.122	0.064	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	100	QPSK 1_137	657200/3858	100%	0.124	0.054	-0.09	18.28	15.50	0.527	0.065	22.1
Back side	100	QPSK 1_137	657200/3858	100%	0.156	0.069	-0.13	18.28	15.50	0.527	0.082	22.1
Left side	100	QPSK 1_137	657200/3858	100%	0.157	0.066	0.17	18.28	15.50	0.527	0.083	22.1
Top side	100	QPSK 1_137	657200/3858	100%	0.060	0.026	-0.05	18.28	15.50	0.527	0.032	22.1



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Hotspot Test data (Separate 10mm 50%RB) DSI 10 with END C												
Front side	100	QPSK 135_69	657200/3858	100%	0.121	0.053	0.13	18.00	15.50	0.562	0.068	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.147	0.066	-0.08	18.00	15.50	0.562	0.083	22.1
Left side	100	QPSK 135_69	657200/3858	100%	0.154	0.064	-0.07	18.00	15.50	0.562	0.087	22.1
Top side	100	QPSK 135_69	657200/3858	100%	0.057	0.025	0.14	18.00	15.50	0.562	0.032	22.1
Ant 21 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	652400/3786	100%	0.327	0.129	0.19	12.91	13.50	1.146	0.375	22.1
Left tilted	100	QPSK 1_271	652400/3786	100%	0.335	0.129	0.14	12.91	13.50	1.146	0.384	22.1
Right cheek	100	QPSK 1_271	652400/3786	100%	0.161	0.068	-0.12	12.91	13.50	1.146	0.184	22.1
Right tilted	100	QPSK 1_271	652400/3786	100%	0.202	0.087	-0.14	12.91	13.50	1.146	0.231	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.342	0.135	-0.13	12.90	13.50	1.148	0.393	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.345	0.135	-0.01	12.90	13.50	1.148	0.396	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.174	0.076	-0.18	12.90	13.50	1.148	0.200	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.237	0.097	0.04	12.90	13.50	1.148	0.272	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	654800/3822	100%	0.116	0.050	-0.17	17.42	18.00	1.143	0.133	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.203	0.088	-0.19	17.42	18.00	1.143	0.232	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	654800/3822	100%	0.115	0.050	0.17	17.31	18.00	1.172	0.135	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.197	0.085	0.02	17.31	18.00	1.172	0.231	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	654800/3822	100%	0.153	0.063	-0.15	15.89	16.50	1.151	0.176	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.273	0.109	0.06	15.89	16.50	1.151	0.314	22.1
Right side	100	QPSK 1_137	654800/3822	100%	0.063	0.031	0.06	15.89	16.50	1.151	0.073	22.1
Top side	100	QPSK 1_137	654800/3822	100%	0.257	0.107	-0.12	15.89	16.50	1.151	0.296	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	654800/3822	100%	0.146	0.060	0.02	15.76	16.50	1.186	0.173	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.265	0.105	-0.15	15.76	16.50	1.186	0.314	22.1
Right side	100	QPSK 135_69	654800/3822	100%	0.061	0.030	0.08	15.76	16.50	1.186	0.072	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.250	0.104	0.03	15.76	16.50	1.186	0.296	22.1
Ant 23 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)



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Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	659600/3894	100%	0.386	0.159	-0.09	15.54	16.00	1.112	0.429	22.1
Left tilted	100	QPSK 1_1	659600/3894	100%	0.096	0.042	-0.13	15.54	16.00	1.112	0.107	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.160	0.073	-0.11	15.54	16.00	1.112	0.178	22.1
Right tilted	100	QPSK 1_1	659600/3894	100%	0.074	0.027	0.07	15.54	16.00	1.112	0.082	22.1
Left cheek	100	QPSK 1_137	650000/3750	100%	0.425	0.176	-0.17	15.12	16.00	1.225	0.520	22.1
Left cheek	100	QPSK 1_271	652400/3786	100%	0.384	0.159	0.17	15.48	16.00	1.127	0.433	22.1
Left cheek	100	QPSK 1_137	654800/3822	100%	0.410	0.170	-0.12	15.46	16.00	1.132	0.464	22.1
Left cheek	100	QPSK 1_137	657200/3858	100%	0.368	0.153	-0.14	15.46	16.00	1.132	0.417	22.1
Left cheek	100	QPSK 1_1	662000/3930	100%	0.318	0.130	0.14	15.19	16.00	1.205	0.383	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.351	0.146	0.08	15.29	16.00	1.178	0.413	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.094	0.042	-0.16	15.29	16.00	1.178	0.111	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.148	0.068	-0.11	15.29	16.00	1.178	0.174	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.066	0.022	0.06	15.29	16.00	1.178	0.078	22.1
Left cheek	100	QPSK 135_69	650000/3750	100%	0.414	0.172	0.18	15.02	16.00	1.253	0.519	22.1
Left cheek	100	QPSK 135_69	652400/3786	100%	0.417	0.173	-0.16	15.13	16.00	1.222	0.509	22.1
Left cheek	100	QPSK 135_69	654800/3822	100%	0.395	0.164	-0.08	15.26	16.00	1.186	0.468	22.1
Left cheek	100	QPSK 135_69	659600/3894	100%	0.297	0.123	-0.03	14.99	16.00	1.262	0.375	22.1
Left cheek	100	QPSK 135_69	662000/3930	100%	0.246	0.101	0.17	14.57	16.00	1.390	0.342	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	659600/3894	100%	0.109	0.046	-0.11	18.50	19.00	1.122	0.122	22.1
Back side	100	QPSK 1_1	659600/3894	100%	0.194	0.089	0.13	18.50	19.00	1.122	0.218	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	657200/3858	100%	0.103	0.042	0.06	18.31	19.00	1.172	0.121	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.184	0.084	0.12	18.31	19.00	1.172	0.216	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	659600/3894	100%	0.122	0.052	0.04	17.04	17.50	1.112	0.136	22.1
Back side	100	QPSK 1_1	659600/3894	100%	0.265	0.114	-0.11	17.04	17.50	1.112	0.295	22.1
Right side	100	QPSK 1_1	659600/3894	100%	0.258	0.108	0.08	17.04	17.50	1.112	0.287	22.1
Top side	100	QPSK 1_1	659600/3894	100%	0.050	0.021	0.18	17.04	17.50	1.112	0.056	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	657200/3858	100%	0.119	0.050	-0.15	16.81	17.50	1.172	0.139	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.255	0.110	0.15	16.81	17.50	1.172	0.299	22.1
Right side	100	QPSK 135_69	657200/3858	100%	0.234	0.099	0.14	16.81	17.50	1.172	0.274	22.1
Top side	100	QPSK 135_69	657200/3858	100%	0.067	0.020	0.05	16.81	17.50	1.172	0.079	22.1

Table 31 : SAR of NR Band n77(3700-3980) for Head, Body and Hotspot.



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8.2.22 SAR Result of NR Band n78(3450-3550)

N78 SAR Test Record												
Ant 21 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_137	633334/3500	100%	0.430	0.173	0.08	13.51	14.00	1.119	0.481	22.1
Left tilted	100	QPSK 1_137	633334/3500	100%	0.467	0.183	0.16	13.51	14.00	1.119	0.523	22.1
Right cheek	100	QPSK 1_137	633334/3500	100%	0.225	0.087	-0.05	13.51	14.00	1.119	0.252	22.1
Right tilted	100	QPSK 1_137	633334/3500	100%	0.300	0.123	-0.02	13.51	14.00	1.119	0.336	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.427	0.172	0.19	13.25	14.00	1.189	0.507	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.452	0.176	-0.01	13.25	14.00	1.189	0.537	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.255	0.105	-0.19	13.25	14.00	1.189	0.303	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.300	0.119	0.15	13.25	14.00	1.189	0.357	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	633334/3500	100%	0.138	0.063	0.17	17.96	18.50	1.132	0.156	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.221	0.098	0.13	17.96	18.50	1.132	0.250	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.130	0.059	0.02	17.72	18.50	1.197	0.156	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.216	0.096	0.18	17.72	18.50	1.197	0.258	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	633334/3500	100%	0.194	0.082	0.14	16.44	17.00	1.138	0.221	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.352	0.142	-0.09	16.44	17.00	1.138	0.400	22.1
Right side	100	QPSK 1_137	633334/3500	100%	0.063	0.031	0.09	16.44	17.00	1.138	0.072	22.1
Top side	100	QPSK 1_137	633334/3500	100%	0.331	0.136	-0.02	16.44	17.00	1.138	0.377	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.188	0.080	0.08	16.21	17.00	1.199	0.226	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.337	0.136	0.11	16.21	17.00	1.199	0.404	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.058	0.029	0.18	16.21	17.00	1.199	0.070	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.314	0.132	0.10	16.21	17.00	1.199	0.377	22.1
Ant 23 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.391	0.163	0.17	16.25	17.50	1.334	0.521	22.1
Left tilted	100	QPSK 1_1	633334/3500	100%	0.224	0.099	-0.02	16.25	17.50	1.334	0.299	22.1
Right cheek	100	QPSK 1_1	633334/3500	100%	0.185	0.088	-0.16	16.25	17.50	1.334	0.247	22.1
Right tilted	100	QPSK 1_1	633334/3500	100%	0.122	0.056	0.18	16.25	17.50	1.334	0.163	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.392	0.162	0.13	16.23	17.50	1.340	0.525	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.219	0.099	0.15	16.23	17.50	1.340	0.293	22.1



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Right cheek	100	QPSK 135_69	633334/3500	100%	0.173	0.083	0.01	16.23	17.50	1.340	0.232	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.112	0.049	0.08	16.23	17.50	1.340	0.150	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	633334/3500	100%	0.091	0.047	0.04	19.27	20.50	1.327	0.121	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.170	0.084	-0.13	19.27	20.50	1.327	0.226	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.094	0.048	0.08	19.08	20.50	1.387	0.130	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.167	0.082	-0.10	19.08	20.50	1.387	0.232	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	633334/3500	100%	0.115	0.055	0.07	17.72	19.00	1.343	0.154	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.235	0.110	0.05	17.72	19.00	1.343	0.316	22.1
Right side	100	QPSK 1_137	633334/3500	100%	0.267	0.108	-0.10	17.72	19.00	1.343	0.359	22.1
Top side	100	QPSK 1_137	633334/3500	100%	0.070	0.034	0.16	17.72	19.00	1.343	0.094	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.116	0.054	0.17	17.61	19.00	1.377	0.160	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.224	0.106	0.14	17.61	19.00	1.377	0.308	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.256	0.104	-0.17	17.61	19.00	1.377	0.353	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.066	0.032	-0.07	17.61	19.00	1.377	0.091	22.1

Table 32 : SAR of NR Band n78(3450-3550) for Head, Body and Hotspot.



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8.2.23 SAR Result of NR Band n78(3700-3800)

N78 SAR Test Record												
Ant 21 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	650000/3750	100%	0.273	0.109	0.10	13.45	14.00	1.135	0.310	22.1
Left tilted	100	QPSK 1_271	650000/3750	100%	0.325	0.125	0.06	13.45	14.00	1.135	0.369	22.1
Right cheek	100	QPSK 1_271	650000/3750	100%	0.191	0.087	0.13	13.45	14.00	1.135	0.217	22.1
Right tilted	100	QPSK 1_271	650000/3750	100%	0.230	0.096	-0.03	13.45	14.00	1.135	0.261	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.288	0.115	-0.19	13.11	14.00	1.227	0.354	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	0.340	0.131	0.10	13.11	14.00	1.227	0.417	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.192	0.083	-0.03	13.11	14.00	1.227	0.236	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.212	0.086	-0.08	13.11	14.00	1.227	0.260	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	650000/3750	100%	0.115	0.051	0.04	18.00	18.50	1.122	0.129	22.1
Back side	100	QPSK 1_271	650000/3750	100%	0.184	0.079	0.05	18.00	18.50	1.122	0.206	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	650000/3750	100%	0.123	0.054	0.01	17.56	18.50	1.242	0.153	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.189	0.082	0.09	17.56	18.50	1.242	0.235	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	650000/3750	100%	0.140	0.059	0.04	16.45	17.00	1.135	0.159	22.1
Back side	100	QPSK 1_271	650000/3750	100%	0.252	0.102	-0.11	16.45	17.00	1.135	0.286	22.1
Right side	100	QPSK 1_271	650000/3750	100%	0.049	0.024	0.19	16.45	17.00	1.135	0.056	22.1
Top side	100	QPSK 1_271	650000/3750	100%	0.201	0.084	0.08	16.45	17.00	1.135	0.228	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	650000/3750	100%	0.154	0.063	-0.15	16.05	17.00	1.245	0.192	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.270	0.107	0.19	16.05	17.00	1.245	0.336	22.1
Right side	100	QPSK 135_69	650000/3750	100%	0.056	0.026	0.12	16.05	17.00	1.245	0.070	22.1
Top side	100	QPSK 135_69	650000/3750	100%	0.216	0.092	-0.03	16.05	17.00	1.245	0.269	22.1
Ant 23 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	650000/3750	100%	0.424	0.175	0.17	16.83	17.50	1.167	0.495	22.1
Left tilted	100	QPSK 1_271	650000/3750	100%	0.130	0.059	-0.18	16.83	17.50	1.167	0.152	22.1
Right cheek	100	QPSK 1_271	650000/3750	100%	0.186	0.087	-0.16	16.83	17.50	1.167	0.217	22.1
Right tilted	100	QPSK 1_271	650000/3750	100%	0.051	0.020	0.10	16.83	17.50	1.167	0.060	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.401	0.163	0.17	16.20	17.50	1.349	0.541	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.121	0.054	0.03	16.20	17.50	1.349	0.163	22.1



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Right cheek	100	QPSK 135_69	650000/3750	100%	0.169	0.079	0.13	16.20	17.50	1.349	0.228	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.080	0.036	0.03	16.20	17.50	1.349	0.108	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	650000/3750	100%	0.118	0.052	0.13	19.79	20.50	1.178	0.139	22.1
Back side	100	QPSK 1_271	650000/3750	100%	0.248	0.108	0.07	19.79	20.50	1.178	0.292	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	650000/3750	100%	0.102	0.047	-0.09	19.23	20.50	1.340	0.137	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.220	0.096	-0.19	19.23	20.50	1.340	0.295	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	650000/3750	100%	0.159	0.067	-0.07	18.24	19.00	1.191	0.189	22.1
Back side	100	QPSK 1_271	650000/3750	100%	0.334	0.140	0.04	18.24	19.00	1.191	0.398	22.1
Right side	100	QPSK 1_271	650000/3750	100%	0.315	0.132	0.01	18.24	19.00	1.191	0.375	22.1
Top side	100	QPSK 1_271	650000/3750	100%	0.063	0.027	0.16	18.24	19.00	1.191	0.075	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	650000/3750	100%	0.151	0.063	-0.10	17.74	19.00	1.337	0.202	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.358	0.148	0.04	17.74	19.00	1.337	0.479	22.3
Right side	100	QPSK 135_69	650000/3750	100%	0.314	0.130	0.16	17.74	19.00	1.337	0.420	22.1
Top side	100	QPSK 135_69	650000/3750	100%	0.073	0.029	0.17	17.74	19.00	1.337	0.098	22.1

Table 33 : SAR of NR Band n78(3700-3800) for Head, Body and Hotspot.



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8.2.24 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant 22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	802.11b	6/2437	98.65%	1.014	0.360	0.170	-0.14	12.34	13.50	1.306	0.477	22.3
Left tilted	802.11b	6/2437	98.65%	1.014	0.261	0.127	0.19	12.34	13.50	1.306	0.346	22.3
Right cheek	802.11b	6/2437	98.65%	1.014	0.098	0.059	0.08	12.34	13.50	1.306	0.130	22.3
Right tilted	802.11b	6/2437	98.65%	1.014	0.091	0.048	-0.14	12.34	13.50	1.306	0.120	22.3
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	98.65%	1.014	0.109	0.058	-0.06	18.33	19.50	1.309	0.145	22.3
Back side	802.11b	6/2437	98.65%	1.014	0.116	0.059	-0.08	18.33	19.50	1.309	0.154	22.3
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	98.65%	1.014	0.230	0.118	-0.04	18.33	19.50	1.309	0.305	22.3
Back side	802.11b	6/2437	98.65%	1.014	0.300	0.144	0.16	18.33	19.50	1.309	0.398	22.3
Right side	802.11b	6/2437	98.65%	1.014	0.233	0.115	-0.03	18.33	19.50	1.309	0.309	22.3
Top side	802.11b	6/2437	98.65%	1.014	0.254	0.120	0.13	18.33	19.50	1.309	0.337	22.3

Table 34 : SAR of WIFI 2.4G for Head, Body and Hotspot.

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8.2.25 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant 22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11n40M	54/5270	96.34%	1.038	0.247	0.088	0.18	12.00	13.50	1.413	0.362	22.3
Left tilted	802.11n40M	54/5270	96.34%	1.038	0.245	0.081	-0.18	12.00	13.50	1.413	0.359	22.3
Right cheek	802.11n40M	54/5270	96.34%	1.038	0.094	0.032	-0.08	12.00	13.50	1.413	0.138	22.3
Right tilted	802.11n40M	54/5270	96.34%	1.038	0.103	0.037	-0.13	12.00	13.50	1.413	0.151	22.3
Head Test Data of U-NII-2C												
Left cheek	802.11ac80M	122/5610	92.87%	1.077	0.475	0.083	0.02	11.47	12.50	1.268	0.648	22.3
Left tilted	802.11ac80M	122/5610	92.87%	1.077	0.343	0.113	-0.04	11.47	12.50	1.268	0.468	22.3
Right cheek	802.11ac80M	122/5610	92.87%	1.077	0.138	0.049	-0.08	11.47	12.50	1.268	0.188	22.3
Right tilted	802.11ac80M	122/5610	92.87%	1.077	0.152	0.060	-0.09	11.47	12.50	1.268	0.207	22.3
Head Test Data of U-NII-3												
Left cheek	802.11ac80M	155/5775	92.87%	1.077	0.255	0.093	-0.11	10.75	12.50	1.496	0.411	22.3
Left tilted	802.11ac80M	155/5775	92.87%	1.077	0.228	0.077	0.05	10.75	12.50	1.496	0.367	22.3
Right cheek	802.11ac80M	155/5775	92.87%	1.077	0.104	0.037	-0.05	10.75	12.50	1.496	0.168	22.3
Right tilted	802.11ac80M	155/5775	92.87%	1.077	0.119	0.043	0.15	10.75	12.50	1.496	0.192	22.3
Head Test Data of U-NII-2A with Simultaneous transmission												
Left cheek	802.11n40M	54/5270	96.34%	1.038	0.247	0.088	0.18	12.00	12.00	1.000	0.256	22.3
Left tilted	802.11n40M	54/5270	96.34%	1.038	0.245	0.081	-0.18	12.00	12.00	1.000	0.254	22.3
Right cheek	802.11n40M	54/5270	96.34%	1.038	0.094	0.032	-0.08	12.00	12.00	1.000	0.098	22.3
Right tilted	802.11n40M	54/5270	96.34%	1.038	0.103	0.037	-0.13	12.00	12.00	1.000	0.107	22.3
Head Test Data of U-NII-2C with Simultaneous transmission												
Left cheek	802.11ac80M	122/5610	92.87%	1.077	0.475	0.083	0.02	11.47	11.00	0.897	0.459	22.3
Left tilted	802.11ac80M	122/5610	92.87%	1.077	0.343	0.113	-0.04	11.47	11.00	0.897	0.331	22.3
Right cheek	802.11ac80M	122/5610	92.87%	1.077	0.138	0.049	-0.08	11.47	11.00	0.897	0.133	22.3
Right tilted	802.11ac80M	122/5610	92.87%	1.077	0.152	0.060	-0.09	11.47	11.00	0.897	0.147	22.3
Head Test Data of U-NII-3 with Simultaneous transmission												
Left cheek	802.11ac80M	155/5775	92.87%	1.077	0.255	0.093	-0.11	10.75	11.00	1.059	0.291	22.3
Left tilted	802.11ac80M	155/5775	92.87%	1.077	0.228	0.077	0.05	10.75	11.00	1.059	0.260	22.3
Right cheek	802.11ac80M	155/5775	92.87%	1.077	0.104	0.037	-0.05	10.75	11.00	1.059	0.119	22.3
Right tilted	802.11ac80M	155/5775	92.87%	1.077	0.119	0.043	0.15	10.75	11.00	1.059	0.136	22.3
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11n40M	54/5270	96.34%	1.038	0.078	0.020	0.01	14.25	16.00	1.496	0.121	22.3
Back side	802.11n40M	54/5270	96.34%	1.038	0.227	0.062	0.09	14.25	16.00	1.496	0.353	22.3
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11ac80M	122/5610	92.87%	1.077	0.216	0.091	-0.19	16.08	17.50	1.387	0.323	22.3
Back side	802.11ac80M	122/5610	92.87%	1.077	0.233	0.110	-0.01	16.08	17.50	1.387	0.348	22.3
Body worn Test data of U-NII-3 (Separate 15mm)												



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Front side	802.11ac80M	155/5775	92.87%	1.077	0.163	0.065	-0.10	15.84	17.50	1.466	0.257	22.3
Back side	802.11ac80M	155/5775	92.87%	1.077	0.223	0.096	0.18	15.84	17.50	1.466	0.352	22.3
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11n40M	46/5230	96.34%	1.038	0.126	0.046	-0.01	14.72	16.00	1.343	0.176	22.3
Back side	802.11n40M	46/5230	96.34%	1.038	0.566	0.123	0.06	14.72	16.00	1.343	0.789	22.3
Right side	802.11n40M	46/5230	96.34%	1.038	0.132	0.056	0.01	14.72	16.00	1.343	0.184	22.3
Top side	802.11n40M	46/5230	96.34%	1.038	0.361	0.126	0.09	14.72	16.00	1.343	0.503	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11ac80M	155/5775	92.87%	1.077	0.237	0.088	-0.04	15.84	17.50	1.466	0.374	22.3
Back side	802.11ac80M	155/5775	92.87%	1.077	0.395	0.133	-0.13	15.84	17.50	1.466	0.623	22.3
Right side	802.11ac80M	155/5775	92.87%	1.077	0.221	0.089	0.15	15.84	17.50	1.466	0.349	22.3
Top side	802.11ac80M	155/5775	92.87%	1.077	0.286	0.103	0.07	15.84	17.50	1.466	0.451	22.3
Hotspot Test data of U-NII-1 (Separate 10mm) with Simultaneous transmission												
Front side	802.11n40M	46/5230	96.34%	1.038	0.126	0.046	-0.01	14.72	12.50	0.600	0.078	22.3
Back side	802.11n40M	46/5230	96.34%	1.038	0.566	0.123	0.06	14.72	12.50	0.600	0.352	22.3
Right side	802.11n40M	46/5230	96.34%	1.038	0.132	0.056	0.01	14.72	12.50	0.600	0.082	22.3
Top side	802.11n40M	46/5230	96.34%	1.038	0.361	0.126	0.09	14.72	12.50	0.600	0.225	22.3
Hotspot Test data of U-NII-3 (Separate 10mm) with Simultaneous transmission												
Front side	802.11ac80M	155/5775	92.87%	1.077	0.237	0.088	-0.04	15.84	15.50	0.925	0.236	22.3
Back side	802.11ac80M	155/5775	92.87%	1.077	0.395	0.133	-0.13	15.84	15.50	0.925	0.393	22.3
Right side	802.11ac80M	155/5775	92.87%	1.077	0.221	0.089	0.15	15.84	15.50	0.925	0.220	22.3
Top side	802.11ac80M	155/5775	92.87%	1.077	0.286	0.103	0.07	15.84	15.50	0.925	0.285	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11n40M	54/5270	96.34%	1.038	0.640	0.225	0.17	14.25	16.00	1.496	0.349	22.3
Back side	802.11n40M	54/5270	96.34%	1.038	1.820	0.408	-0.12	14.25	16.00	1.496	0.634	22.3
Right side	802.11n40M	54/5270	96.34%	1.038	0.711	0.239	-0.13	14.25	16.00	1.496	0.371	22.3
Top side	802.11n40M	54/5270	96.34%	1.038	2.260	0.428	-0.15	14.25	16.00	1.496	0.665	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11ac80M	122/5610	92.87%	1.077	2.100	0.457	-0.14	16.08	17.50	1.387	0.682	22.3
Back side	802.11ac80M	122/5610	92.87%	1.077	1.980	0.371	0.10	16.08	17.50	1.387	0.554	22.3
Right side	802.11ac80M	122/5610	92.87%	1.077	1.990	0.423	-0.16	16.08	17.50	1.387	0.632	22.3
Top side	802.11ac80M	122/5610	92.87%	1.077	2.400	0.465	0.10	16.08	17.50	1.387	0.694	22.3

Table 35 : SAR of WIFI 5G for Head, Body, Hotspot and Limbs.



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8.2.26 SAR Result of BT

Bluetooth SAR Test Record												
Ant22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data												
Left cheek	DH5	39/2441	77.53%	1.290	0.185	0.088	0.02	11.86	13.50	1.459	0.348	22.3
Left tilted	DH5	39/2441	77.53%	1.290	0.162	0.079	0.19	11.86	13.50	1.459	0.305	22.3
Right cheek	DH5	39/2441	77.53%	1.290	0.068	0.040	0.11	11.86	13.50	1.459	0.128	22.3
Right tilted	DH5	39/2441	77.53%	1.290	0.059	0.031	0.18	11.86	13.50	1.459	0.111	22.3
Body worn Test data (Separate 15mm)												
Front side	DH5	39/2441	77.53%	1.290	0.002	0.001	-0.06	11.86	13.50	1.459	0.004	22.3
Back side	DH5	39/2441	77.53%	1.299	0.007	0.002	0.03	11.86	13.50	1.459	0.013	22.3
Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.53%	1.290	0.005	0.002	-0.18	11.86	13.50	1.459	0.009	22.3
Back side	DH5	39/2441	77.53%	1.290	0.034	0.016	-0.07	11.86	13.50	1.459	0.064	22.4
Right side	DH5	39/2441	77.53%	1.290	0.007	0.003	-0.09	11.86	13.50	1.459	0.013	22.3
Top side	DH5	39/2441	77.53%	1.290	0.011	0.006	-0.06	11.86	13.50	1.459	0.021	22.3

Table 36 : SAR of BT for Head, Body and Hotspot.

8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes	Yes
4	WWAN + WLAN 5GHz + BT	Yes	Yes	Yes	Yes
5	WLAN 5GHz + BT	Yes	Yes	Yes	Yes

Note:

- 1) The device does not support DTM function.
- 2) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.

8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Band/Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G	BT	
		1	2	
WLAN	Left cheek	0.648	0.348	0.996
	Left tilted	0.468	0.305	0.773
	Right cheek	0.188	0.128	0.316
	Right tilted	0.207	0.111	0.318

Band/Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4				
GSM 850	Left cheek	0.545	0.477	0.459	0.348	1.022	1.004	0.893	1.352
	Left tilted	0.425	0.346	0.331	0.305	0.771	0.756	0.730	1.061
	Right cheek	0.809	0.130	0.133	0.128	0.939	0.942	0.937	1.070
	Right tilted	0.616	0.120	0.147	0.111	0.736	0.763	0.727	0.874
GSM 1900	Left cheek	0.244	0.477	0.459	0.348	0.721	0.703	0.592	1.051
	Left tilted	0.295	0.346	0.331	0.305	0.641	0.626	0.600	0.931
	Right cheek	0.404	0.130	0.133	0.128	0.534	0.537	0.532	0.665
	Right tilted	0.585	0.120	0.147	0.111	0.705	0.732	0.696	0.843
WCDMA B2	Left cheek	0.258	0.477	0.459	0.348	0.735	0.717	0.606	1.065
	Left tilted	0.367	0.346	0.331	0.305	0.713	0.698	0.672	1.003
	Right cheek	0.492	0.130	0.133	0.128	0.622	0.625	0.620	0.753
	Right tilted	0.710	0.120	0.147	0.111	0.830	0.857	0.821	0.968
WCDMA B4	Left cheek	0.407	0.477	0.459	0.348	0.884	0.866	0.755	1.214
	Left tilted	0.441	0.346	0.331	0.305	0.787	0.772	0.746	1.077
	Right cheek	0.724	0.130	0.133	0.128	0.854	0.857	0.852	0.985
	Right tilted	0.736	0.120	0.147	0.111	0.856	0.883	0.847	0.994
WCDMA B5	Left cheek	0.427	0.477	0.459	0.348	0.904	0.886	0.775	1.234
	Left tilted	0.321	0.346	0.331	0.305	0.667	0.652	0.626	0.957
	Right cheek	0.659	0.130	0.133	0.128	0.789	0.792	0.787	0.920
	Right tilted	0.480	0.120	0.147	0.111	0.600	0.627	0.591	0.738
LTE B2	Left cheek	0.325	0.477	0.459	0.348	0.802	0.784	0.673	1.132
	Left tilted	0.390	0.346	0.331	0.305	0.736	0.721	0.695	1.026
	Right cheek	0.584	0.130	0.133	0.128	0.714	0.717	0.712	0.845
	Right tilted	0.660	0.120	0.147	0.111	0.780	0.807	0.771	0.918
LTE B7	Left cheek	0.368	0.477	0.459	0.348	0.845	0.827	0.716	1.175
	Left tilted	0.322	0.346	0.331	0.305	0.668	0.653	0.627	0.958
	Right cheek	0.718	0.130	0.133	0.128	0.848	0.851	0.846	0.979
	Right tilted	0.791	0.120	0.147	0.111	0.911	0.938	0.902	1.049



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LTE B12	Left cheek	0.326	0.477	0.459	0.348	0.803	0.785	0.674	1.133
	Left tilted	0.304	0.346	0.331	0.305	0.650	0.635	0.609	0.940
	Right cheek	0.567	0.130	0.133	0.128	0.697	0.700	0.695	0.828
	Right tilted	0.359	0.120	0.147	0.111	0.479	0.506	0.470	0.617
LTE B13	Left cheek	0.334	0.477	0.459	0.348	0.811	0.793	0.682	1.141
	Left tilted	0.315	0.346	0.331	0.305	0.661	0.646	0.620	0.951
	Right cheek	0.541	0.130	0.133	0.128	0.671	0.674	0.669	0.802
	Right tilted	0.351	0.120	0.147	0.111	0.471	0.498	0.462	0.609
LTE B26	Left cheek	0.407	0.477	0.459	0.348	0.884	0.866	0.755	1.214
	Left tilted	0.403	0.346	0.331	0.305	0.749	0.734	0.708	1.039
	Right cheek	0.628	0.130	0.133	0.128	0.758	0.761	0.756	0.889
	Right tilted	0.433	0.120	0.147	0.111	0.553	0.580	0.544	0.691
LTE B38	Left cheek	0.309	0.477	0.459	0.348	0.786	0.768	0.657	1.116
	Left tilted	0.232	0.346	0.331	0.305	0.578	0.563	0.537	0.868
	Right cheek	0.652	0.130	0.133	0.128	0.782	0.785	0.780	0.913
	Right tilted	0.534	0.120	0.147	0.111	0.654	0.681	0.645	0.792
LTE B41	Left cheek	0.170	0.477	0.459	0.348	0.647	0.629	0.518	0.977
	Left tilted	0.125	0.346	0.331	0.305	0.471	0.456	0.430	0.761
	Right cheek	0.399	0.130	0.133	0.128	0.529	0.532	0.527	0.660
	Right tilted	0.298	0.120	0.147	0.111	0.418	0.445	0.409	0.556
LTE B66	Left cheek	0.379	0.477	0.459	0.348	0.856	0.838	0.727	1.186
	Left tilted	0.471	0.346	0.331	0.305	0.817	0.802	0.776	1.107
	Right cheek	0.782	0.130	0.133	0.128	0.912	0.915	0.910	1.043
	Right tilted	0.724	0.120	0.147	0.111	0.844	0.871	0.835	0.982
NR N2	Left cheek	0.324	0.477	0.459	0.348	0.801	0.783	0.672	1.131
	Left tilted	0.415	0.346	0.331	0.305	0.761	0.746	0.720	1.051
	Right cheek	0.513	0.130	0.133	0.128	0.643	0.646	0.641	0.774
	Right tilted	0.761	0.120	0.147	0.111	0.881	0.908	0.872	1.019
NR N7	Left cheek	0.261	0.477	0.459	0.348	0.738	0.720	0.609	1.068
	Left tilted	0.234	0.346	0.331	0.305	0.580	0.565	0.539	0.870
	Right cheek	0.608	0.130	0.133	0.128	0.738	0.741	0.736	0.869
	Right tilted	0.637	0.120	0.147	0.111	0.757	0.784	0.748	0.895
NR N26	Left cheek	0.403	0.477	0.459	0.348	0.880	0.862	0.751	1.210
	Left tilted	0.321	0.346	0.331	0.305	0.667	0.652	0.626	0.957
	Right cheek	0.539	0.130	0.133	0.128	0.669	0.672	0.667	0.800
	Right tilted	0.522	0.120	0.147	0.111	0.642	0.669	0.633	0.780
NR N38	Left cheek	0.374	0.477	0.459	0.348	0.851	0.833	0.722	1.181
	Left tilted	0.203	0.346	0.331	0.305	0.549	0.534	0.508	0.839
	Right cheek	0.770	0.130	0.133	0.128	0.900	0.903	0.898	1.031
	Right tilted	0.438	0.120	0.147	0.111	0.558	0.585	0.549	0.696
NR N41	Left cheek	0.350	0.477	0.459	0.348	0.827	0.809	0.698	1.157
	Left tilted	0.213	0.346	0.331	0.305	0.559	0.544	0.518	0.849
	Right cheek	0.787	0.130	0.133	0.128	0.917	0.920	0.915	1.048
	Right tilted	0.468	0.120	0.147	0.111	0.588	0.615	0.579	0.726



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NR N66	Left cheek	0.444	0.477	0.459	0.348	0.921	0.903	0.792	1.251
	Left tilted	0.356	0.346	0.331	0.305	0.702	0.687	0.661	0.992
	Right cheek	0.755	0.130	0.133	0.128	0.885	0.888	0.883	1.016
	Right tilted	0.570	0.120	0.147	0.111	0.690	0.717	0.681	0.828
NR N77 (3450-3550)	Left cheek	0.538	0.477	0.459	0.348	1.015	0.997	0.886	1.345
	Left tilted	0.494	0.346	0.331	0.305	0.840	0.825	0.799	1.130
	Right cheek	0.846	0.130	0.133	0.128	0.976	0.979	0.974	1.107
	Right tilted	0.555	0.120	0.147	0.111	0.675	0.702	0.666	0.813
N77 (3700-3980)	Left cheek	0.520	0.477	0.459	0.348	0.997	0.979	0.868	1.327
	Left tilted	0.396	0.346	0.331	0.305	0.742	0.727	0.701	1.032
	Right cheek	0.764	0.130	0.133	0.128	0.894	0.897	0.892	1.025
	Right tilted	0.272	0.120	0.147	0.111	0.392	0.419	0.383	0.530
N78 (3450-3550)	Left cheek	0.525	0.477	0.459	0.348	1.002	0.984	0.873	1.332
	Left tilted	0.537	0.346	0.331	0.305	0.883	0.868	0.842	1.173
	Right cheek	0.303	0.130	0.133	0.128	0.433	0.436	0.431	0.564
	Right tilted	0.357	0.120	0.147	0.111	0.477	0.504	0.468	0.615
N78 (3700-3800)	Left cheek	0.541	0.477	0.459	0.348	1.018	1.000	0.889	1.348
	Left tilted	0.417	0.346	0.331	0.305	0.763	0.748	0.722	1.053
	Right cheek	0.236	0.130	0.133	0.128	0.366	0.369	0.364	0.497
	Right tilted	0.261	0.120	0.147	0.111	0.381	0.408	0.372	0.519



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Band/Test position		SARmax (W/kg)				Summed SAR			
		ULCA MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A_4A	Left cheek	0.553	0.477	0.459	0.348	1.030	1.012	0.901	1.360
	Left tilted	0.386	0.346	0.331	0.305	0.732	0.717	0.691	1.022
	Right cheek	1.069	0.130	0.133	0.128	1.199	1.202	1.197	1.330
	Right tilted	0.644	0.120	0.147	0.111	0.764	0.791	0.755	0.902
CA_2A_7A	Left cheek	0.423	0.477	0.459	0.348	0.900	0.882	0.771	1.230
	Left tilted	0.359	0.346	0.331	0.305	0.705	0.690	0.664	0.995
	Right cheek	0.785	0.130	0.133	0.128	0.915	0.918	0.913	1.046
	Right tilted	0.604	0.120	0.147	0.111	0.724	0.751	0.715	0.862
CA_2A_66A	Left cheek	0.553	0.477	0.459	0.348	1.030	1.012	0.901	1.360
	Left tilted	0.386	0.346	0.331	0.305	0.732	0.717	0.691	1.022
	Right cheek	1.069	0.130	0.133	0.128	1.199	1.202	1.197	1.330
	Right tilted	0.644	0.120	0.147	0.111	0.764	0.791	0.755	0.902
CA_4A_5A	Left cheek	0.457	0.477	0.459	0.348	0.934	0.916	0.805	1.264
	Left tilted	0.236	0.346	0.331	0.305	0.582	0.567	0.541	0.872
	Right cheek	0.855	0.130	0.133	0.128	0.985	0.988	0.983	1.116
	Right tilted	0.291	0.120	0.147	0.111	0.411	0.438	0.402	0.549
CA_4A_7A	Left cheek	0.466	0.477	0.459	0.348	0.943	0.925	0.814	1.273
	Left tilted	0.424	0.346	0.331	0.305	0.770	0.755	0.729	1.060
	Right cheek	0.942	0.130	0.133	0.128	1.072	1.075	1.070	1.203
	Right tilted	0.654	0.120	0.147	0.111	0.774	0.801	0.765	0.912
CA_5A_7A	Left cheek	0.327	0.477	0.459	0.348	0.804	0.786	0.675	1.134
	Left tilted	0.209	0.346	0.331	0.305	0.555	0.540	0.514	0.845
	Right cheek	0.571	0.130	0.133	0.128	0.701	0.704	0.699	0.832
	Right tilted	0.251	0.120	0.147	0.111	0.371	0.398	0.362	0.509
CA_5A_66A	Left cheek	0.457	0.477	0.459	0.348	0.934	0.916	0.805	1.264
	Left tilted	0.236	0.346	0.331	0.305	0.582	0.567	0.541	0.872
	Right cheek	0.855	0.130	0.133	0.128	0.985	0.988	0.983	1.116
	Right tilted	0.291	0.120	0.147	0.111	0.411	0.438	0.402	0.549
CA_7A_26A	Left cheek	0.327	0.477	0.459	0.348	0.804	0.786	0.675	1.134
	Left tilted	0.209	0.346	0.331	0.305	0.555	0.540	0.514	0.845
	Right cheek	0.571	0.130	0.133	0.128	0.701	0.704	0.699	0.832
	Right tilted	0.251	0.120	0.147	0.111	0.371	0.398	0.362	0.509



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Band/Test position		SARmax (W/kg)				Summed SAR			
		ENDC MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
7A_n2A	Left cheek	0.585	0.477	0.459	0.348	1.062	1.044	0.933	1.392
	Left tilted	0.427	0.346	0.331	0.305	0.773	0.758	0.732	1.063
	Right cheek	1.047	0.130	0.133	0.128	1.177	1.180	1.175	1.308
	Right tilted	0.762	0.120	0.147	0.111	0.882	0.909	0.873	1.020
7A_n5A	Left cheek	0.548	0.477	0.459	0.348	1.025	1.007	0.896	1.355
	Left tilted	0.408	0.346	0.331	0.305	0.754	0.739	0.713	1.044
	Right cheek	0.796	0.130	0.133	0.128	0.926	0.929	0.924	1.057
	Right tilted	0.638	0.120	0.147	0.111	0.758	0.785	0.749	0.896
2A_n7A	Left cheek	0.408	0.477	0.459	0.348	0.885	0.867	0.756	1.215
	Left tilted	0.322	0.346	0.331	0.305	0.668	0.653	0.627	0.958
	Right cheek	0.696	0.130	0.133	0.128	0.826	0.829	0.824	0.957
	Right tilted	0.738	0.120	0.147	0.111	0.858	0.885	0.849	0.996
4A_n7A	Left cheek	0.349	0.477	0.459	0.348	0.826	0.808	0.697	1.156
	Left tilted	0.282	0.346	0.331	0.305	0.628	0.613	0.587	0.918
	Right cheek	0.660	0.130	0.133	0.128	0.790	0.793	0.788	0.921
	Right tilted	0.697	0.120	0.147	0.111	0.817	0.844	0.808	0.955
5A_n7A	Left cheek	0.584	0.477	0.459	0.348	1.061	1.043	0.932	1.391
	Left tilted	0.428	0.346	0.331	0.305	0.774	0.759	0.733	1.064
	Right cheek	1.107	0.130	0.133	0.128	1.237	1.240	1.235	1.368
	Right tilted	0.512	0.120	0.147	0.111	0.632	0.659	0.623	0.770
66A_n7A	Left cheek	0.349	0.477	0.459	0.348	0.826	0.808	0.697	1.156
	Left tilted	0.282	0.346	0.331	0.305	0.628	0.613	0.587	0.918
	Right cheek	0.660	0.130	0.133	0.128	0.790	0.793	0.788	0.921
	Right tilted	0.697	0.120	0.147	0.111	0.817	0.844	0.808	0.955
2A_n38A	Left cheek	0.288	0.477	0.459	0.348	0.765	0.747	0.636	1.095
	Left tilted	0.291	0.346	0.331	0.305	0.637	0.622	0.596	0.927
	Right cheek	0.420	0.130	0.133	0.128	0.550	0.553	0.548	0.681
	Right tilted	0.539	0.120	0.147	0.111	0.659	0.686	0.650	0.797
4A_n38A	Left cheek	0.229	0.477	0.459	0.348	0.706	0.688	0.577	1.036
	Left tilted	0.251	0.346	0.331	0.305	0.597	0.582	0.556	0.887
	Right cheek	0.384	0.130	0.133	0.128	0.514	0.517	0.512	0.645
	Right tilted	0.498	0.120	0.147	0.111	0.618	0.645	0.609	0.756
5A_n38A	Left cheek	0.398	0.477	0.459	0.348	0.875	0.857	0.746	1.205
	Left tilted	0.338	0.346	0.331	0.305	0.684	0.669	0.643	0.974
	Right cheek	0.653	0.130	0.133	0.128	0.783	0.786	0.781	0.914
	Right tilted	0.381	0.120	0.147	0.111	0.501	0.528	0.492	0.639
66A_n38A	Left cheek	0.229	0.477	0.459	0.348	0.706	0.688	0.577	1.036
	Left tilted	0.251	0.346	0.331	0.305	0.597	0.582	0.556	0.887
	Right cheek	0.384	0.130	0.133	0.128	0.514	0.517	0.512	0.645
	Right tilted	0.498	0.120	0.147	0.111	0.618	0.645	0.609	0.756



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2A_n41A	Left cheek	0.368	0.477	0.459	0.348	0.845	0.827	0.716	1.175
	Left tilted	0.301	0.346	0.331	0.305	0.647	0.632	0.606	0.937
	Right cheek	0.585	0.130	0.133	0.128	0.715	0.718	0.713	0.846
	Right tilted	0.569	0.120	0.147	0.111	0.689	0.716	0.680	0.827
4A_n41A	Left cheek	0.309	0.477	0.459	0.348	0.786	0.768	0.657	1.116
	Left tilted	0.261	0.346	0.331	0.305	0.607	0.592	0.566	0.897
	Right cheek	0.549	0.130	0.133	0.128	0.679	0.682	0.677	0.810
	Right tilted	0.528	0.120	0.147	0.111	0.648	0.675	0.639	0.786
26A_n41A	Left cheek	0.544	0.477	0.459	0.348	1.021	1.003	0.892	1.351
	Left tilted	0.375	0.346	0.331	0.305	0.721	0.706	0.680	1.011
	Right cheek	0.996	0.130	0.133	0.128	1.126	1.129	1.124	1.257
	Right tilted	0.457	0.120	0.147	0.111	0.577	0.604	0.568	0.715
66A_n41A	Left cheek	0.309	0.477	0.459	0.348	0.786	0.768	0.657	1.116
	Left tilted	0.261	0.346	0.331	0.305	0.607	0.592	0.566	0.897
	Right cheek	0.549	0.130	0.133	0.128	0.679	0.682	0.677	0.810
	Right tilted	0.528	0.120	0.147	0.111	0.648	0.675	0.639	0.786
2A_n66A	Left cheek	0.324	0.477	0.459	0.348	0.801	0.783	0.672	1.131
	Left tilted	0.134	0.346	0.331	0.305	0.480	0.465	0.439	0.770
	Right cheek	0.389	0.130	0.133	0.128	0.519	0.522	0.517	0.650
	Right tilted	0.169	0.120	0.147	0.111	0.289	0.316	0.280	0.427
5A_n66A	Left cheek	0.500	0.477	0.459	0.348	0.977	0.959	0.848	1.307
	Left tilted	0.366	0.346	0.331	0.305	0.712	0.697	0.671	1.002
	Right cheek	0.800	0.130	0.133	0.128	0.930	0.933	0.928	1.061
	Right tilted	0.412	0.120	0.147	0.111	0.532	0.559	0.523	0.670
7A_n66A	Left cheek	0.436	0.477	0.459	0.348	0.913	0.895	0.784	1.243
	Left tilted	0.443	0.346	0.331	0.305	0.789	0.774	0.748	1.079
	Right cheek	0.701	0.130	0.133	0.128	0.831	0.834	0.829	0.962
	Right tilted	0.686	0.120	0.147	0.111	0.806	0.833	0.797	0.944
7A_n77A	Left cheek	0.344	0.477	0.459	0.348	0.821	0.803	0.692	1.151
	Left tilted	0.375	0.346	0.331	0.305	0.721	0.706	0.680	1.011
	Right cheek	0.834	0.130	0.133	0.128	0.964	0.967	0.962	1.095
	Right tilted	0.849	0.120	0.147	0.111	0.969	0.996	0.960	1.107
2A_n78A	Left cheek	0.395	0.477	0.459	0.348	0.872	0.854	0.743	1.202
	Left tilted	0.429	0.346	0.331	0.305	0.775	0.760	0.734	1.065
	Right cheek	0.801	0.130	0.133	0.128	0.931	0.934	0.929	1.062
	Right tilted	0.746	0.120	0.147	0.111	0.866	0.893	0.857	1.004
4A_n78A	Left cheek	0.438	0.477	0.459	0.348	0.915	0.897	0.786	1.245
	Left tilted	0.494	0.346	0.331	0.305	0.840	0.825	0.799	1.130
	Right cheek	0.958	0.130	0.133	0.128	1.088	1.091	1.086	1.219
	Right tilted	0.796	0.120	0.147	0.111	0.916	0.943	0.907	1.054
5A_n78A	Left cheek	0.460	0.477	0.459	0.348	0.937	0.919	0.808	1.267
	Left tilted	0.439	0.346	0.331	0.305	0.785	0.770	0.744	1.075
	Right cheek	0.836	0.130	0.133	0.128	0.966	0.969	0.964	1.097
	Right tilted	0.565	0.120	0.147	0.111	0.685	0.712	0.676	0.823



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7A_n78A	Left cheek	0.344	0.477	0.459	0.348	0.821	0.803	0.692	1.151
	Left tilted	0.375	0.346	0.331	0.305	0.721	0.706	0.680	1.011
	Right cheek	0.834	0.130	0.133	0.128	0.964	0.967	0.962	1.095
	Right tilted	0.849	0.120	0.147	0.111	0.969	0.996	0.960	1.107
26A_n78A	Left cheek	0.460	0.477	0.459	0.348	0.937	0.919	0.808	1.267
	Left tilted	0.439	0.346	0.331	0.305	0.785	0.770	0.744	1.075
	Right cheek	0.836	0.130	0.133	0.128	0.966	0.969	0.964	1.097
	Right tilted	0.565	0.120	0.147	0.111	0.685	0.712	0.676	0.823
38A_n78A	Left cheek	0.294	0.477	0.459	0.348	0.771	0.753	0.642	1.101
	Left tilted	0.351	0.346	0.331	0.305	0.697	0.682	0.656	0.987
	Right cheek	0.731	0.130	0.133	0.128	0.861	0.864	0.859	0.992
	Right tilted	0.755	0.120	0.147	0.111	0.875	0.902	0.866	1.013
41A_n78A	Left cheek	0.261	0.477	0.459	0.348	0.738	0.720	0.609	1.068
	Left tilted	0.244	0.346	0.331	0.305	0.590	0.575	0.549	0.880
	Right cheek	0.563	0.130	0.133	0.128	0.693	0.696	0.691	0.824
	Right tilted	0.519	0.120	0.147	0.111	0.639	0.666	0.630	0.777
66A_n78A	Left cheek	0.438	0.477	0.459	0.348	0.915	0.897	0.786	1.245
	Left tilted	0.494	0.346	0.331	0.305	0.840	0.825	0.799	1.130
	Right cheek	0.958	0.130	0.133	0.128	1.088	1.091	1.086	1.219
	Right tilted	0.796	0.120	0.147	0.111	0.916	0.943	0.907	1.054



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Body:

Band/Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G	BT	
		1	2	
WLAN	Front side	0.323	0.004	0.327
	Back side	0.353	0.013	0.366

Band/Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM 850	Front side	0.260	0.145	0.323	0.004	0.405	0.583	0.264	0.587
	Back side	0.342	0.154	0.353	0.013	0.496	0.695	0.355	0.708
GSM 1900	Front side	0.270	0.145	0.323	0.004	0.415	0.593	0.274	0.597
	Back side	0.381	0.154	0.353	0.013	0.535	0.734	0.394	0.747
WCDMA B2	Front side	0.381	0.145	0.323	0.004	0.526	0.704	0.385	0.708
	Back side	0.443	0.154	0.353	0.013	0.597	0.796	0.456	0.809
WCDMA B4	Front side	0.435	0.145	0.323	0.004	0.580	0.758	0.439	0.762
	Back side	0.467	0.154	0.353	0.013	0.621	0.820	0.480	0.833
WCDMA B5	Front side	0.189	0.145	0.323	0.004	0.334	0.512	0.193	0.516
	Back side	0.244	0.154	0.353	0.013	0.398	0.597	0.257	0.610
LTE B2	Front side	0.334	0.145	0.323	0.004	0.479	0.657	0.338	0.661
	Back side	0.470	0.154	0.353	0.013	0.624	0.823	0.483	0.836
LTE B7	Front side	0.206	0.145	0.323	0.004	0.351	0.529	0.210	0.533
	Back side	0.651	0.154	0.353	0.013	0.805	1.004	0.664	1.017
LTE B12	Front side	0.145	0.145	0.323	0.004	0.290	0.468	0.149	0.472
	Back side	0.196	0.154	0.353	0.013	0.350	0.549	0.209	0.562
LTE B13	Front side	0.155	0.145	0.323	0.004	0.300	0.478	0.159	0.482
	Back side	0.204	0.154	0.353	0.013	0.358	0.557	0.217	0.570
LTE B26	Front side	0.195	0.145	0.323	0.004	0.340	0.518	0.199	0.522
	Back side	0.253	0.154	0.353	0.013	0.407	0.606	0.266	0.619
LTE B38	Front side	0.221	0.145	0.323	0.004	0.366	0.544	0.225	0.548
	Back side	0.657	0.154	0.353	0.013	0.811	1.010	0.670	1.023
LTE B41	Front side	0.162	0.145	0.323	0.004	0.307	0.485	0.166	0.489
	Back side	0.269	0.154	0.353	0.013	0.423	0.622	0.282	0.635
LTE B66	Front side	0.446	0.145	0.323	0.004	0.591	0.769	0.450	0.773
	Back side	0.503	0.154	0.353	0.013	0.657	0.856	0.516	0.869
NR N2	Front side	0.463	0.145	0.323	0.004	0.608	0.786	0.467	0.790
	Back side	0.492	0.154	0.353	0.013	0.646	0.845	0.505	0.858
NR N7	Front side	0.233	0.145	0.323	0.004	0.378	0.556	0.237	0.560
	Back side	0.352	0.154	0.353	0.013	0.506	0.705	0.365	0.718
NR N26	Front side	0.131	0.145	0.323	0.004	0.276	0.454	0.135	0.458
	Back side	0.158	0.154	0.353	0.013	0.312	0.511	0.171	0.524



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NR N38	Front side	0.371	0.145	0.323	0.004	0.516	0.694	0.375	0.698
	Back side	0.634	0.154	0.353	0.013	0.788	0.987	0.647	1.000
NR N41	Front side	0.302	0.145	0.323	0.004	0.447	0.625	0.306	0.629
	Back side	0.594	0.154	0.353	0.013	0.748	0.947	0.607	0.960
NR N66	Front side	0.309	0.145	0.323	0.004	0.454	0.632	0.313	0.636
	Back side	0.507	0.154	0.353	0.013	0.661	0.860	0.520	0.873
NR N77 (3450-3550)	Front side	0.482	0.145	0.323	0.004	0.627	0.805	0.486	0.809
	Back side	0.755	0.154	0.353	0.013	0.909	1.108	0.768	1.121
N77 (3700-3980)	Front side	0.380	0.145	0.323	0.004	0.525	0.703	0.384	0.707
	Back side	0.659	0.154	0.353	0.013	0.813	1.012	0.672	1.025
N78 (3450-3550)	Front side	0.156	0.145	0.323	0.004	0.301	0.479	0.160	0.483
	Back side	0.258	0.154	0.353	0.013	0.412	0.611	0.271	0.624
N78 (3700-3800)	Front side	0.153	0.145	0.323	0.004	0.298	0.476	0.157	0.480
	Back side	0.295	0.154	0.353	0.013	0.449	0.648	0.308	0.661

Band/Test position		SARmax (W/kg)				Summed SAR			
		ULCA MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A_4A	Front side	0.675	0.145	0.323	0.004	0.820	0.998	0.679	1.002
	Back side	0.891	0.154	0.353	0.013	1.045	1.244	0.904	1.257
CA_2A_7A	Front side	0.540	0.145	0.323	0.004	0.685	0.863	0.544	0.867
	Back side	0.842	0.154	0.353	0.013	0.996	1.195	0.855	1.208
CA_2A_66A	Front side	0.675	0.145	0.323	0.004	0.820	0.998	0.679	1.002
	Back side	0.891	0.154	0.353	0.013	1.045	1.244	0.904	1.257
CA_4A_5A	Front side	0.536	0.145	0.323	0.004	0.681	0.859	0.540	0.863
	Back side	0.674	0.154	0.353	0.013	0.828	1.027	0.687	1.040
CA_4A_7A	Front side	0.652	0.145	0.323	0.004	0.797	0.975	0.656	0.979
	Back side	0.875	0.154	0.353	0.013	1.029	1.228	0.888	1.241
CA_5A_7A	Front side	0.401	0.145	0.323	0.004	0.546	0.724	0.405	0.728
	Back side	0.625	0.154	0.353	0.013	0.779	0.978	0.638	0.991
CA_5A_66A	Front side	0.536	0.145	0.323	0.004	0.681	0.859	0.540	0.863
	Back side	0.674	0.154	0.353	0.013	0.828	1.027	0.687	1.040
CA_7A_26A	Front side	0.401	0.145	0.323	0.004	0.546	0.724	0.405	0.728
	Back side	0.625	0.154	0.353	0.013	0.779	0.978	0.638	0.991



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Band/Test position		SARmax (W/kg)				Summed SAR			
		ENDC MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
7A_n2A	Front side	0.669	0.145	0.323	0.004	0.814	0.992	0.673	0.996
	Back side	0.864	0.154	0.353	0.013	1.018	1.217	0.877	1.230
7A_n5A	Front side	0.297	0.145	0.323	0.004	0.442	0.620	0.301	0.624
	Back side	0.411	0.154	0.353	0.013	0.565	0.764	0.424	0.777
2A_n7A	Front side	0.399	0.145	0.323	0.004	0.544	0.722	0.403	0.726
	Back side	0.605	0.154	0.353	0.013	0.759	0.958	0.618	0.971
4A_n7A	Front side	0.361	0.145	0.323	0.004	0.506	0.684	0.365	0.688
	Back side	0.575	0.154	0.353	0.013	0.729	0.928	0.588	0.941
5A_n7A	Front side	0.428	0.145	0.323	0.004	0.573	0.751	0.432	0.755
	Back side	0.605	0.154	0.353	0.013	0.759	0.958	0.618	0.971
66A_n7A	Front side	0.361	0.145	0.323	0.004	0.506	0.684	0.365	0.688
	Back side	0.575	0.154	0.353	0.013	0.729	0.928	0.588	0.941
2A_n38A	Front side	0.537	0.145	0.323	0.004	0.682	0.860	0.541	0.864
	Back side	0.887	0.154	0.353	0.013	1.041	1.240	0.900	1.253
4A_n38A	Front side	0.499	0.145	0.323	0.004	0.644	0.822	0.503	0.826
	Back side	0.857	0.154	0.353	0.013	1.011	1.210	0.870	1.223
5A_n38A	Front side	0.566	0.145	0.323	0.004	0.711	0.889	0.570	0.893
	Back side	0.887	0.154	0.353	0.013	1.041	1.240	0.900	1.253
66A_n38A	Front side	0.499	0.145	0.323	0.004	0.644	0.822	0.503	0.826
	Back side	0.857	0.154	0.353	0.013	1.011	1.210	0.870	1.223
2A_n41A	Front side	0.468	0.145	0.323	0.004	0.613	0.791	0.472	0.795
	Back side	0.847	0.154	0.353	0.013	1.001	1.200	0.860	1.213
4A_n41A	Front side	0.430	0.145	0.323	0.004	0.575	0.753	0.434	0.757
	Back side	0.817	0.154	0.353	0.013	0.971	1.170	0.830	1.183
26A_n41A	Front side	0.497	0.145	0.323	0.004	0.642	0.820	0.501	0.824
	Back side	0.847	0.154	0.353	0.013	1.001	1.200	0.860	1.213
66A_n41A	Front side	0.430	0.145	0.323	0.004	0.575	0.753	0.434	0.757
	Back side	0.817	0.154	0.353	0.013	0.971	1.170	0.830	1.183
2A_n66A	Front side	0.475	0.145	0.323	0.004	0.620	0.798	0.479	0.802
	Back side	0.654	0.154	0.353	0.013	0.808	1.007	0.667	1.020
5A_n66A	Front side	0.504	0.145	0.323	0.004	0.649	0.827	0.508	0.831
	Back side	0.654	0.154	0.353	0.013	0.808	1.007	0.667	1.020
7A_n66A	Front side	0.513	0.145	0.323	0.004	0.658	0.836	0.517	0.840
	Back side	0.699	0.154	0.353	0.013	0.853	1.052	0.712	1.065
7A_n77A	Front side	0.276	0.145	0.323	0.004	0.421	0.599	0.280	0.603
	Back side	0.624	0.154	0.353	0.013	0.778	0.977	0.637	0.990
2A_n78A	Front side	0.406	0.145	0.323	0.004	0.551	0.729	0.410	0.733
	Back side	0.577	0.154	0.353	0.013	0.731	0.930	0.590	0.943
4A_n78A	Front side	0.518	0.145	0.323	0.004	0.663	0.841	0.522	0.845
	Back side	0.610	0.154	0.353	0.013	0.764	0.963	0.623	0.976



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5A_n78A	Front side	0.267	0.145	0.323	0.004	0.412	0.590	0.271	0.594
	Back side	0.360	0.154	0.353	0.013	0.514	0.713	0.373	0.726
7A_n78A	Front side	0.276	0.145	0.323	0.004	0.421	0.599	0.280	0.603
	Back side	0.624	0.154	0.353	0.013	0.778	0.977	0.637	0.990
26A_n78A	Front side	0.267	0.145	0.323	0.004	0.412	0.590	0.271	0.594
	Back side	0.360	0.154	0.353	0.013	0.514	0.713	0.373	0.726
38A_n78A	Front side	0.223	0.145	0.323	0.004	0.368	0.546	0.227	0.550
	Back side	0.629	0.154	0.353	0.013	0.783	0.982	0.642	0.995
41A_n78A	Front side	0.205	0.145	0.323	0.004	0.350	0.528	0.209	0.532
	Back side	0.374	0.154	0.353	0.013	0.528	0.727	0.387	0.740
66A_n78A	Front side	0.518	0.145	0.323	0.004	0.663	0.841	0.522	0.845
	Back side	0.610	0.154	0.353	0.013	0.764	0.963	0.623	0.976



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Hotspot:

Band/Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G	BT	
		1	2	
WLAN	Front side	0.374	0.009	0.383
	Back side	0.789	0.064	0.853
	Left side	/	/	/
	Right side	0.349	0.013	0.362
	Top side	0.503	0.021	0.524
	Bottom side	/	/	/

Band/Test position		SARmax (W/kg)				Summed SAR			
		WWAN MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM 850	Front side	0.234	0.305	0.236	0.009	0.539	0.470	0.243	0.479
	Back side	0.338	0.398	0.393	0.064	0.736	0.731	0.402	0.795
	Left side	0.233	/	/	/	0.233	0.233	0.233	0.233
	Right side	0.133	0.309	0.220	0.013	0.442	0.353	0.146	0.366
	Top side	0.329	0.337	0.285	0.021	0.666	0.614	0.350	0.635
	Bottom side	0.240	/	/	/	0.240	0.240	0.240	0.240
GSM 1900	Front side	0.337	0.305	0.236	0.009	0.642	0.573	0.346	0.582
	Back side	0.442	0.398	0.393	0.064	0.840	0.835	0.506	0.899
	Left side	0.086	/	/	/	0.086	0.086	0.086	0.086
	Right side	0.065	0.309	0.220	0.013	0.374	0.285	0.078	0.298
	Top side	0.539	0.337	0.285	0.021	0.876	0.824	0.560	0.845
	Bottom side	0.448	/	/	/	0.448	0.448	0.448	0.448
WCDMA B2	Front side	0.323	0.305	0.236	0.009	0.628	0.559	0.332	0.568
	Back side	0.410	0.398	0.393	0.064	0.808	0.803	0.474	0.867
	Left side	0.083	/	/	/	0.083	0.083	0.083	0.083
	Right side	0.122	0.309	0.220	0.013	0.431	0.342	0.135	0.355
	Top side	0.541	0.337	0.285	0.021	0.878	0.826	0.562	0.847
	Bottom side	0.453	/	/	/	0.453	0.453	0.453	0.453
WCDMA B4	Front side	0.465	0.305	0.236	0.009	0.770	0.701	0.474	0.710
	Back side	0.483	0.398	0.393	0.064	0.881	0.876	0.547	0.940
	Left side	0.074	/	/	/	0.074	0.074	0.074	0.074
	Right side	0.077	0.309	0.220	0.013	0.386	0.297	0.090	0.310
	Top side	0.578	0.337	0.285	0.021	0.915	0.863	0.599	0.884
	Bottom side	0.418	/	/	/	0.418	0.418	0.418	0.418
WCDMA B5	Front side	0.302	0.305	0.236	0.009	0.607	0.538	0.311	0.547
	Back side	0.417	0.398	0.393	0.064	0.815	0.810	0.481	0.874
	Left side	0.203	/	/	/	0.203	0.203	0.203	0.203



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	Right side	0.107	0.309	0.220	0.013	0.416	0.327	0.120	0.340
	Top side	0.324	0.337	0.285	0.021	0.661	0.609	0.345	0.630
	Bottom side	0.181	/	/	/	0.181	0.181	0.181	0.181
LTE B2	Front side	0.294	0.305	0.236	0.009	0.599	0.530	0.303	0.539
	Back side	0.421	0.398	0.393	0.064	0.819	0.814	0.485	0.878
	Left side	0.073	/	/	/	0.073	0.073	0.073	0.073
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.468	0.337	0.285	0.021	0.805	0.753	0.489	0.774
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
LTE B7	Front side	0.264	0.305	0.236	0.009	0.569	0.500	0.273	0.509
	Back side	0.595	0.398	0.393	0.064	0.993	0.988	0.659	1.052
	Left side	0.237	/	/	/	0.237	0.237	0.237	0.237
	Right side	0.127	0.309	0.220	0.013	0.436	0.347	0.140	0.360
	Top side	0.626	0.337	0.285	0.021	0.963	0.911	0.647	0.932
	Bottom side	0.313	/	/	/	0.313	0.313	0.313	0.313
LTE B12	Front side	0.144	0.305	0.236	0.009	0.449	0.380	0.153	0.389
	Back side	0.202	0.398	0.393	0.064	0.600	0.595	0.266	0.659
	Left side	0.185	/	/	/	0.185	0.185	0.185	0.185
	Right side	0.113	0.309	0.220	0.013	0.422	0.333	0.126	0.346
	Top side	0.104	0.337	0.285	0.021	0.441	0.389	0.125	0.410
	Bottom side	0.065	/	/	/	0.065	0.065	0.065	0.065
LTE B13	Front side	0.145	0.305	0.236	0.009	0.450	0.381	0.154	0.390
	Back side	0.208	0.398	0.393	0.064	0.606	0.601	0.272	0.665
	Left side	0.185	/	/	/	0.185	0.185	0.185	0.185
	Right side	0.095	0.309	0.220	0.013	0.404	0.315	0.108	0.328
	Top side	0.073	0.337	0.285	0.021	0.410	0.358	0.094	0.379
	Bottom side	0.179	/	/	/	0.179	0.179	0.179	0.179
LTE B26	Front side	0.231	0.305	0.236	0.009	0.536	0.467	0.240	0.476
	Back side	0.288	0.398	0.393	0.064	0.686	0.681	0.352	0.745
	Left side	0.200	/	/	/	0.200	0.200	0.200	0.200
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.246	0.337	0.285	0.021	0.583	0.531	0.267	0.552
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
LTE B38	Front side	0.305	0.305	0.236	0.009	0.610	0.541	0.314	0.550
	Back side	0.584	0.398	0.393	0.064	0.982	0.977	0.648	1.041
	Left side	0.499	/	/	/	0.499	0.499	0.499	0.499
	Right side	0.170	0.309	0.220	0.013	0.479	0.390	0.183	0.403
	Top side	0.492	0.337	0.285	0.021	0.829	0.777	0.513	0.798
	Bottom side	0.303	/	/	/	0.303	0.303	0.303	0.303
LTE B41	Front side	0.200	0.305	0.236	0.009	0.505	0.436	0.209	0.445
	Back side	0.300	0.398	0.393	0.064	0.698	0.693	0.364	0.757
	Left side	0.185	/	/	/	0.185	0.185	0.185	0.185
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.248	0.337	0.285	0.021	0.585	0.533	0.269	0.554



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	Bottom side	0.226	/	/	/	0.226	0.226	0.226	0.226
LTE B66	Front side	0.478	0.305	0.236	0.009	0.783	0.714	0.487	0.723
	Back side	0.638	0.398	0.393	0.064	1.036	1.031	0.702	1.095
	Left side	0.566	/	/	/	0.566	0.566	0.566	0.566
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.837	0.337	0.285	0.021	1.174	1.122	0.858	1.143
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
NR N2	Front side	0.417	0.305	0.236	0.009	0.722	0.653	0.426	0.662
	Back side	0.492	0.398	0.393	0.064	0.890	0.885	0.556	0.949
	Left side	0.087	/	/	/	0.087	0.087	0.087	0.087
	Right side	0.107	0.309	0.220	0.013	0.416	0.327	0.120	0.340
	Top side	0.530	0.337	0.285	0.021	0.867	0.815	0.551	0.836
	Bottom side	0.407	/	/	/	0.407	0.407	0.407	0.407
NR N7	Front side	0.276	0.305	0.236	0.009	0.581	0.512	0.285	0.521
	Back side	0.268	0.398	0.393	0.064	0.666	0.661	0.332	0.725
	Left side	0.351	/	/	/	0.351	0.351	0.351	0.351
	Right side	0.193	0.309	0.220	0.013	0.502	0.413	0.206	0.426
	Top side	0.226	0.337	0.285	0.021	0.563	0.511	0.247	0.532
	Bottom side	0.281	/	/	/	0.281	0.281	0.281	0.281
NR N26	Front side	0.156	0.305	0.236	0.009	0.461	0.392	0.165	0.401
	Back side	0.167	0.398	0.393	0.064	0.565	0.560	0.231	0.624
	Left side	0.149	/	/	/	0.149	0.149	0.149	0.149
	Right side	0.092	0.309	0.220	0.013	0.401	0.312	0.105	0.325
	Top side	0.094	0.337	0.285	0.021	0.431	0.379	0.115	0.400
	Bottom side	0.175	/	/	/	0.175	0.175	0.175	0.175
NR N38	Front side	0.166	0.305	0.236	0.009	0.471	0.402	0.175	0.411
	Back side	0.488	0.398	0.393	0.064	0.886	0.881	0.552	0.945
	Left side	0.483	/	/	/	0.483	0.483	0.483	0.483
	Right side	/	0.309	0.220	0.013	0.309	0.220	0.013	0.233
	Top side	0.394	0.337	0.285	0.021	0.731	0.679	0.415	0.700
	Bottom side	/	/	/	/	/	/	/	/
NR N41	Front side	0.206	0.305	0.236	0.009	0.511	0.442	0.215	0.451
	Back side	0.423	0.398	0.393	0.064	0.821	0.816	0.487	0.880
	Left side	0.400	/	/	/	0.400	0.400	0.400	0.400
	Right side	0.125	0.309	0.220	0.013	0.434	0.345	0.138	0.358
	Top side	0.411	0.337	0.285	0.021	0.748	0.696	0.432	0.717
	Bottom side	0.236	/	/	/	0.236	0.236	0.236	0.236
NR N66	Front side	0.330	0.305	0.236	0.009	0.635	0.566	0.339	0.575
	Back side	0.506	0.398	0.393	0.064	0.904	0.899	0.570	0.963
	Left side	0.612	/	/	/	0.612	0.612	0.612	0.612
	Right side	0.083	0.309	0.220	0.013	0.392	0.303	0.096	0.316
	Top side	0.111	0.337	0.285	0.021	0.448	0.396	0.132	0.417
	Bottom side	0.406	/	/	/	0.406	0.406	0.406	0.406
NR N77	Front side	0.275	0.305	0.236	0.009	0.580	0.511	0.284	0.520



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(3450-3550)	Back side	0.439	0.398	0.393	0.064	0.837	0.832	0.503	0.896
	Left side	0.727	/	/	/	0.727	0.727	0.727	0.727
	Right side	0.272	0.309	0.220	0.013	0.581	0.492	0.285	0.505
	Top side	0.393	0.337	0.285	0.021	0.730	0.678	0.414	0.699
	Bottom side	/	/	/	/	/	/	/	/
N77 (3700-3980)	Front side	0.193	0.305	0.236	0.009	0.498	0.429	0.202	0.438
	Back side	0.314	0.398	0.393	0.064	0.712	0.707	0.378	0.771
	Left side	0.368	/	/	/	0.368	0.368	0.368	0.368
	Right side	0.287	0.309	0.220	0.013	0.596	0.507	0.300	0.520
	Top side	0.296	0.337	0.285	0.021	0.633	0.581	0.317	0.602
	Bottom side	/	/	/	/	/	/	/	/
N78 (3450-3550)	Front side	0.226	0.305	0.236	0.009	0.531	0.462	0.235	0.471
	Back side	0.404	0.398	0.393	0.064	0.802	0.797	0.468	0.861
	Left side	/	/	/	/	/	/	/	/
	Right side	0.359	0.309	0.220	0.013	0.668	0.579	0.372	0.592
	Top side	0.377	0.337	0.285	0.021	0.714	0.662	0.398	0.683
	Bottom side	/	/	/	/	/	/	/	/
N78 (3700-3800)	Front side	0.202	0.305	0.236	0.009	0.507	0.438	0.211	0.447
	Back side	0.479	0.398	0.393	0.064	0.877	0.872	0.543	0.936
	Left side	/	/	/	/	/	/	/	/
	Right side	0.420	0.309	0.220	0.013	0.729	0.640	0.433	0.653
	Top side	0.269	0.337	0.285	0.021	0.606	0.554	0.290	0.575
	Bottom side	/	/	/	/	/	/	/	/



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Band/Test position		SARmax (W/kg)				Summed SAR			
		ULCA MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
CA_2A_4A	Front side	0.567	0.305	0.236	0.009	0.872	0.803	0.576	0.812
	Back side	0.883	0.398	0.393	0.064	1.281	1.276	0.947	1.340
	Left side	0.639	/	/	/	0.639	0.639	0.639	0.639
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.517	0.337	0.285	0.021	0.854	0.802	0.538	0.823
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
CA_2A_7A	Front side	0.403	0.305	0.236	0.009	0.708	0.639	0.412	0.648
	Back side	0.650	0.398	0.393	0.064	1.048	1.043	0.714	1.107
	Left side	0.310	/	/	/	0.310	0.310	0.310	0.310
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.535	0.337	0.285	0.021	0.872	0.820	0.556	0.841
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
CA_2A_66A	Front side	0.567	0.305	0.236	0.009	0.872	0.803	0.576	0.812
	Back side	0.883	0.398	0.393	0.064	1.281	1.276	0.947	1.340
	Left side	0.639	/	/	/	0.639	0.639	0.639	0.639
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.517	0.337	0.285	0.021	0.854	0.802	0.538	0.823
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
CA_4A_5A	Front side	0.504	0.305	0.236	0.009	0.809	0.740	0.513	0.749
	Back side	0.750	0.398	0.393	0.064	1.148	1.143	0.814	1.207
	Left side	0.766	/	/	/	0.766	0.766	0.766	0.766
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.295	0.337	0.285	0.021	0.632	0.580	0.316	0.601
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
CA_4A_7A	Front side	0.587	0.305	0.236	0.009	0.892	0.823	0.596	0.832
	Back side	0.867	0.398	0.393	0.064	1.265	1.260	0.931	1.324
	Left side	0.346	/	/	/	0.346	0.346	0.346	0.346
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.904	0.337	0.285	0.021	1.241	1.189	0.925	1.210
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
CA_5A_7A	Front side	0.340	0.305	0.236	0.009	0.645	0.576	0.349	0.585
	Back side	0.517	0.398	0.393	0.064	0.915	0.910	0.581	0.974
	Left side	0.437	/	/	/	0.437	0.437	0.437	0.437
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.313	0.337	0.285	0.021	0.650	0.598	0.334	0.619
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
CA_5A_66A	Front side	0.504	0.305	0.236	0.009	0.809	0.740	0.513	0.749
	Back side	0.750	0.398	0.393	0.064	1.148	1.143	0.814	1.207
	Left side	0.766	/	/	/	0.766	0.766	0.766	0.766
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362



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	Top side	0.295	0.337	0.285	0.021	0.632	0.580	0.316	0.601
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
CA_7A_26A	Front side	0.340	0.305	0.236	0.009	0.645	0.576	0.349	0.585
	Back side	0.517	0.398	0.393	0.064	0.915	0.910	0.581	0.974
	Left side	0.437	/	/	/	0.437	0.437	0.437	0.437
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.313	0.337	0.285	0.021	0.650	0.598	0.334	0.619
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238



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Band/Test position		SARmax (W/kg)				Summed SAR			
		ENDC MAX SAR	WiFi 2.4G	WiFi 5G	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
7A_n2A	Front side	0.526	0.305	0.236	0.009	0.831	0.762	0.535	0.771
	Back side	0.721	0.398	0.393	0.064	1.119	1.114	0.785	1.178
	Left side	0.324	/	/	/	0.324	0.324	0.324	0.324
	Right side	0.107	0.309	0.220	0.013	0.416	0.327	0.120	0.340
	Top side	0.597	0.337	0.285	0.021	0.934	0.882	0.618	0.903
	Bottom side	0.407	/	/	/	0.407	0.407	0.407	0.407
7A_n5A	Front side	0.395	0.305	0.236	0.009	0.700	0.631	0.404	0.640
	Back side	0.550	0.398	0.393	0.064	0.948	0.943	0.614	1.007
	Left side	0.219	/	/	/	0.219	0.219	0.219	0.219
	Right side	0.179	0.309	0.220	0.013	0.488	0.399	0.192	0.412
	Top side	0.094	0.337	0.285	0.021	0.431	0.379	0.115	0.400
	Bottom side	0.706	/	/	/	0.706	0.706	0.706	0.706
2A_n7A	Front side	0.359	0.305	0.236	0.009	0.664	0.595	0.368	0.604
	Back side	0.642	0.398	0.393	0.064	1.040	1.035	0.706	1.099
	Left side	0.421	/	/	/	0.421	0.421	0.421	0.421
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.226	0.337	0.285	0.021	0.563	0.511	0.247	0.532
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
4A_n7A	Front side	0.300	0.305	0.236	0.009	0.605	0.536	0.309	0.545
	Back side	0.562	0.398	0.393	0.064	0.960	0.955	0.626	1.019
	Left side	0.413	/	/	/	0.413	0.413	0.413	0.413
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.226	0.337	0.285	0.021	0.563	0.511	0.247	0.532
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
5A_n7A	Front side	0.351	0.305	0.236	0.009	0.656	0.587	0.360	0.596
	Back side	0.547	0.398	0.393	0.064	0.945	0.940	0.611	1.004
	Left side	0.551	/	/	/	0.551	0.551	0.551	0.551
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.309	0.337	0.285	0.021	0.646	0.594	0.330	0.615
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
66A_n7A	Front side	0.300	0.305	0.236	0.009	0.605	0.536	0.309	0.545
	Back side	0.562	0.398	0.393	0.064	0.960	0.955	0.626	1.019
	Left side	0.413	/	/	/	0.413	0.413	0.413	0.413
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.226	0.337	0.285	0.021	0.563	0.511	0.247	0.532
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
2A_n38A	Front side	0.405	0.305	0.236	0.009	0.710	0.641	0.414	0.650
	Back side	0.871	0.398	0.393	0.064	1.269	1.264	0.935	1.328
	Left side	0.553	/	/	/	0.553	0.553	0.553	0.553
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320



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	Top side	0.394	0.337	0.285	0.021	0.731	0.679	0.415	0.700
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
4A_n38A	Front side	0.346	0.305	0.236	0.009	0.651	0.582	0.355	0.591
	Back side	0.791	0.398	0.393	0.064	1.189	1.184	0.855	1.248
	Left side	0.545	/	/	/	0.545	0.545	0.545	0.545
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.394	0.337	0.285	0.021	0.731	0.679	0.415	0.700
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
5A_n38A	Front side	0.397	0.305	0.236	0.009	0.702	0.633	0.406	0.642
	Back side	0.662	0.398	0.393	0.064	1.060	1.055	0.726	1.119
	Left side	0.683	/	/	/	0.683	0.683	0.683	0.683
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.249	0.337	0.285	0.021	0.586	0.534	0.270	0.555
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
66A_n38A	Front side	0.346	0.305	0.236	0.009	0.651	0.582	0.355	0.591
	Back side	0.791	0.398	0.393	0.064	1.189	1.184	0.855	1.248
	Left side	0.545	/	/	/	0.545	0.545	0.545	0.545
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.394	0.337	0.285	0.021	0.731	0.679	0.415	0.700
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
2A_n41A	Front side	0.367	0.305	0.236	0.009	0.672	0.603	0.376	0.612
	Back side	0.806	0.398	0.393	0.064	1.204	1.199	0.870	1.263
	Left side	0.470	/	/	/	0.470	0.470	0.470	0.470
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.411	0.337	0.285	0.021	0.748	0.696	0.432	0.717
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
4A_n41A	Front side	0.308	0.305	0.236	0.009	0.613	0.544	0.317	0.553
	Back side	0.726	0.398	0.393	0.064	1.124	1.119	0.790	1.183
	Left side	0.462	/	/	/	0.462	0.462	0.462	0.462
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.411	0.337	0.285	0.021	0.748	0.696	0.432	0.717
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
26A_n41A	Front side	0.359	0.305	0.236	0.009	0.664	0.595	0.368	0.604
	Back side	0.547	0.398	0.393	0.064	0.945	0.940	0.611	1.004
	Left side	0.600	/	/	/	0.600	0.600	0.600	0.600
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.292	0.337	0.285	0.021	0.629	0.577	0.313	0.598
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
66A_n41A	Front side	0.308	0.305	0.236	0.009	0.613	0.544	0.317	0.553
	Back side	0.726	0.398	0.393	0.064	1.124	1.119	0.790	1.183
	Left side	0.462	/	/	/	0.462	0.462	0.462	0.462
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.411	0.337	0.285	0.021	0.748	0.696	0.432	0.717
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467



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2A_n66A	Front side	0.569	0.305	0.236	0.009	0.874	0.805	0.578	0.814
	Back side	0.889	0.398	0.393	0.064	1.287	1.282	0.953	1.346
	Left side	0.682	/	/	/	0.682	0.682	0.682	0.682
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.072	0.337	0.285	0.021	0.409	0.357	0.093	0.378
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
5A_n66A	Front side	0.561	0.305	0.236	0.009	0.866	0.797	0.570	0.806
	Back side	0.794	0.398	0.393	0.064	1.192	1.187	0.858	1.251
	Left side	0.812	/	/	/	0.812	0.812	0.812	0.812
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.318	0.337	0.285	0.021	0.655	0.603	0.339	0.624
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
7A_n66A	Front side	0.594	0.305	0.236	0.009	0.899	0.830	0.603	0.839
	Back side	0.778	0.398	0.393	0.064	1.176	1.171	0.842	1.235
	Left side	0.701	/	/	/	0.701	0.701	0.701	0.701
	Right side	0.127	0.309	0.220	0.013	0.436	0.347	0.140	0.360
	Top side	0.111	0.337	0.285	0.021	0.448	0.396	0.132	0.417
	Bottom side	0.313	/	/	/	0.313	0.313	0.313	0.313
7A_n77A	Front side	0.402	0.305	0.236	0.009	0.707	0.638	0.411	0.647
	Back side	0.815	0.398	0.393	0.064	1.213	1.208	0.879	1.272
	Left side	0.453	/	/	/	0.453	0.453	0.453	0.453
	Right side	0.127	0.309	0.220	0.013	0.436	0.347	0.140	0.360
	Top side	0.722	0.337	0.285	0.021	1.059	1.007	0.743	1.028
	Bottom side	0.313	/	/	/	0.313	0.313	0.313	0.313
2A_n78A	Front side	0.432	0.305	0.236	0.009	0.737	0.668	0.441	0.677
	Back side	0.641	0.398	0.393	0.064	1.039	1.034	0.705	1.098
	Left side	0.437	/	/	/	0.437	0.437	0.437	0.437
	Right side	0.087	0.309	0.220	0.013	0.396	0.307	0.100	0.320
	Top side	0.564	0.337	0.285	0.021	0.901	0.849	0.585	0.870
	Bottom side	0.531	/	/	/	0.531	0.531	0.531	0.531
4A_n78A	Front side	0.616	0.305	0.236	0.009	0.921	0.852	0.625	0.861
	Back side	0.858	0.398	0.393	0.064	1.256	1.251	0.922	1.315
	Left side	0.473	/	/	/	0.473	0.473	0.473	0.473
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.933	0.337	0.285	0.021	1.270	1.218	0.954	1.239
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467
5A_n78A	Front side	0.369	0.305	0.236	0.009	0.674	0.605	0.378	0.614
	Back side	0.508	0.398	0.393	0.064	0.906	0.901	0.572	0.965
	Left side	0.564	/	/	/	0.564	0.564	0.564	0.564
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.342	0.337	0.285	0.021	0.679	0.627	0.363	0.648
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
7A_n78A	Front side	0.402	0.305	0.236	0.009	0.707	0.638	0.411	0.647
	Back side	0.815	0.398	0.393	0.064	1.213	1.208	0.879	1.272



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	Left side	0.453	/	/	/	0.453	0.453	0.453	0.453
	Right side	0.127	0.309	0.220	0.013	0.436	0.347	0.140	0.360
	Top side	0.722	0.337	0.285	0.021	1.059	1.007	0.743	1.028
	Bottom side	0.313	/	/	/	0.313	0.313	0.313	0.313
26A_n78A	Front side	0.369	0.305	0.236	0.009	0.674	0.605	0.378	0.614
	Back side	0.508	0.398	0.393	0.064	0.906	0.901	0.572	0.965
	Left side	0.564	/	/	/	0.564	0.564	0.564	0.564
	Right side	0.129	0.309	0.220	0.013	0.438	0.349	0.142	0.362
	Top side	0.342	0.337	0.285	0.021	0.679	0.627	0.363	0.648
	Bottom side	0.238	/	/	/	0.238	0.238	0.238	0.238
38A_n78A	Front side	0.443	0.305	0.236	0.009	0.748	0.679	0.452	0.688
	Back side	0.804	0.398	0.393	0.064	1.202	1.197	0.868	1.261
	Left side	0.441	/	/	/	0.441	0.441	0.441	0.441
	Right side	0.170	0.309	0.220	0.013	0.479	0.390	0.183	0.403
	Top side	0.588	0.337	0.285	0.021	0.925	0.873	0.609	0.894
	Bottom side	0.303	/	/	/	0.303	0.303	0.303	0.303
41A_n78A	Front side	0.338	0.305	0.236	0.009	0.643	0.574	0.347	0.583
	Back side	0.520	0.398	0.393	0.064	0.918	0.913	0.584	0.977
	Left side	0.405	/	/	/	0.405	0.405	0.405	0.405
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.344	0.337	0.285	0.021	0.681	0.629	0.365	0.650
	Bottom side	0.226	/	/	/	0.226	0.226	0.226	0.226
66A_n78A	Front side	0.616	0.305	0.236	0.009	0.921	0.852	0.625	0.861
	Back side	0.858	0.398	0.393	0.064	1.256	1.251	0.922	1.315
	Left side	0.473	/	/	/	0.473	0.473	0.473	0.473
	Right side	0.102	0.309	0.220	0.013	0.411	0.322	0.115	0.335
	Top side	0.933	0.337	0.285	0.021	1.270	1.218	0.954	1.239
	Bottom side	0.467	/	/	/	0.467	0.467	0.467	0.467



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Limbs:

Band/Test position		SARmax (W/kg)		
		WWAN MAX SAR	WiFi 5G	
		1	2	
				1+2
WCDMA B2	Front side	/	0.682	0.682
	Back side	/	0.634	0.634
	Left side	/	/	/
	Right side	/	0.632	0.632
	Top side	2.298	0.694	2.992
	Bottom side	/	/	/
WCDMA B4	Front side	/	0.682	0.682
	Back side	0.949	0.634	1.583
	Left side	/	/	/
	Right side	/	0.632	0.632
	Top side	1.130	0.694	1.824
	Bottom side	/	/	/
LTE B2	Front side	/	0.682	0.682
	Back side	1.048	0.634	1.682
	Left side	/	/	/
	Right side	/	0.632	0.632
	Top side	1.289	0.694	1.983
	Bottom side	/	/	/
LTE B7	Front side	/	0.682	0.682
	Back side	1.994	0.634	2.628
	Left side	/	/	/
	Right side	/	0.632	0.632
	Top side	1.407	0.694	2.101
	Bottom side	/	/	/
LTE B38	Front side	/	0.682	0.682
	Back side	/	0.634	0.634
	Left side	2.359	/	2.359
	Right side	/	0.632	0.632
	Top side	/	0.694	0.694
	Bottom side	/	/	/
LTE B66	Front side	/	0.682	0.682
	Back side	2.112	0.634	2.746
	Left side	2.139	/	2.139
	Right side	/	0.632	0.632
	Top side	2.095	0.694	2.789
	Bottom side	/	/	/
NR N2	Front side	/	0.682	0.682
	Back side	1.804	0.634	2.438



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	Left side	/	/	/
	Right side	/	0.632	0.632
	Top side	1.994	0.694	2.688
	Bottom side	/	/	/
NR N38	Front side	/	0.682	0.682
	Back side	1.510	0.634	2.144
	Left side	2.135	/	2.135
	Right side	/	0.632	0.632
	Top side	/	0.694	0.694
	Bottom side	/	/	/
NR N41	Front side	/	0.682	0.682
	Back side	1.430	0.634	2.064
	Left side	2.174	/	2.174
	Right side	/	0.632	0.632
	Top side	/	0.694	0.694
	Bottom side	/	/	/
NR N66	Front side	/	0.682	0.682
	Back side	/	0.634	0.634
	Left side	2.486	/	2.486
	Right side	/	0.632	0.632
	Top side	/	0.694	0.694
	Bottom side	/	/	/
NR N77 (3450-3550)	Front side	/	0.682	0.682
	Back side	2.055	0.634	2.689
	Left side	1.362	/	1.362
	Right side	/	0.632	0.632
	Top side	/	0.694	0.694
	Bottom side	/	/	/
N77 (3700-3980)	Front side	/	0.682	0.682
	Back side	/	0.634	0.634
	Left side	1.867	/	1.867
	Right side	/	0.632	0.632
	Top side	/	0.694	0.694
	Bottom side	/	/	/



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Band/Test position		SARmax (W/kg)		
		ULCA MAX SAR	WiFi 5G	
		1	2	
CA_2A_4A	Front side	/	0.682	0.682
	Back side	3.160	0.634	3.794
	Left side	2.139	/	2.139
	Right side	/	0.632	0.632
	Top side	1.289	0.694	1.983
	Bottom side	/	/	/
CA_2A_66A	Front side	/	0.682	0.682
	Back side	3.160	0.634	3.794
	Left side	2.139	/	2.139
	Right side	/	0.632	0.632
	Top side	1.289	0.694	1.983
	Bottom side	/	/	/



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Band/Test position		SARmax (W/kg)		
		WWAN MAX SAR	WiFi 5G	
		1	2	
7A_n77A	Front side	/	0.682	0.682
	Back side	3.039	0.634	3.673
	Left side	1.322	/	1.322
	Right side	/	0.632	0.632
	Top side	1.118	0.694	1.812
	Bottom side	/	/	/
2A_n78A	Front side	/	0.682	0.682
	Back side	2.503	0.634	3.137
	Left side	1.322	/	1.322
	Right side	/	0.632	0.632
	Top side	1.289	0.694	1.983
	Bottom side	/	/	/
4A_n78A	Front side	/	0.682	0.682
	Back side	2.832	0.634	3.466
	Left side	1.322	/	1.322
	Right side	/	0.632	0.632
	Top side	1.466	0.694	2.160
	Bottom side	/	/	/
7A_n78A	Front side	/	0.682	0.682
	Back side	3.039	0.634	3.673
	Left side	1.322	/	1.322
	Right side	/	0.632	0.632
	Top side	1.118	0.694	1.812
	Bottom side	/	/	/
66A_n78A	Front side	/	0.682	0.682
	Back side	2.832	0.634	3.466
	Left side	1.322	/	1.322
	Right side	/	0.632	0.632
	Top side	1.466	0.694	2.160
	Bottom side	/	/	/



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Head(Inter-band ULCAStandalone):

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 2		ULCA Summed SAR
			Ant13	Ant31	
Band 4	Left cheek	0.295	0.258	0.147	0.553
	Left tilted	0.076	0.310	0.088	0.386
	Right cheek	0.605	0.464	0.088	1.069
	Right tilted	0.119	0.525	0.101	0.644
Band 7	Left cheek	0.328	0.258	0.147	0.586
	Left tilted	0.097	0.310	0.088	0.407
	Right cheek	0.640	0.464	0.088	1.104
	Right tilted	0.157	0.525	0.101	0.682
Band 66	Left cheek	0.295	0.258	0.147	0.553
	Left tilted	0.076	0.310	0.088	0.386
	Right cheek	0.605	0.464	0.088	1.069
	Right tilted	0.119	0.525	0.101	0.644

LTE Band (ULCA)	Exposure position	ANT11	ANT13	ANT31	LTE Band 4			ULCA Summed SAR
					Ant11	Ant13	Ant31	
Band 5	Left cheek	/	0.323	0.140	0.295	/	/	0.618
	Left tilted	/	0.320	0.070	0.076	/	/	0.396
	Right cheek	/	0.499	0.133	0.605	/	/	1.104
	Right tilted	/	0.344	0.064	0.119	/	/	0.463
Band 7	Left cheek	0.328	/	/	/	0.301	0.088	0.629
	Left tilted	0.097	/	/	/	0.375	0.048	0.472
	Right cheek	0.640	/	/	/	0.621	0.052	1.261
	Right tilted	0.157	/	/	/	0.575	0.060	0.732

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 5		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Left cheek	0.328	0.323	0.140	0.651
	Left tilted	0.097	0.320	0.070	0.417
	Right cheek	0.640	0.499	0.133	1.139
	Right tilted	0.157	0.344	0.064	0.501
Band 66	Left cheek	0.295	0.323	0.140	0.618
	Left tilted	0.076	0.320	0.070	0.396
	Right cheek	0.605	0.499	0.133	1.104
	Right tilted	0.119	0.344	0.064	0.463



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LTE Band (ULCA)	Exposure position	ANT11	LTE Band 26		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Left cheek	0.328	0.323	0.140	0.651
	Left tilted	0.097	0.320	0.070	0.417
	Right cheek	0.640	0.499	0.133	1.139
	Right tilted	0.157	0.344	0.064	0.501



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Head(Inter-band ULCA Simultaneous transmission):

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 2		ULCA Summed SAR
			Ant13	Ant31	
Band 4	Left cheek	0.295	0.258	0.147	0.553
	Left tilted	0.076	0.310	0.088	0.386
	Right cheek	0.605	0.464	0.088	1.069
	Right tilted	0.119	0.525	0.101	0.644
Band 7	Left cheek	0.165	0.258	0.147	0.423
	Left tilted	0.049	0.310	0.088	0.359
	Right cheek	0.321	0.464	0.088	0.785
	Right tilted	0.079	0.525	0.101	0.604
Band 66	Left cheek	0.295	0.258	0.147	0.553
	Left tilted	0.076	0.310	0.088	0.386
	Right cheek	0.605	0.464	0.088	1.069
	Right tilted	0.119	0.525	0.101	0.644

LTE Band (ULCA)	Exposure position	ANT11	ANT13	ANT31	LTE Band 4			ULCA Summed SAR
					Ant11	Ant13	Ant31	
Band 5	Left cheek	/	0.162	0.140	0.295	/	/	0.457
	Left tilted	/	0.160	0.070	0.076	/	/	0.236
	Right cheek	/	0.250	0.133	0.605	/	/	0.855
	Right tilted	/	0.172	0.064	0.119	/	/	0.291
Band 7	Left cheek	0.165	/	/	/	0.301	0.088	0.466
	Left tilted	0.049	/	/	/	0.375	0.048	0.424
	Right cheek	0.321	/	/	/	0.621	0.052	0.942
	Right tilted	0.079	/	/	/	0.575	0.060	0.654

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 5		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Left cheek	0.165	0.162	0.140	0.327
	Left tilted	0.049	0.160	0.070	0.209
	Right cheek	0.321	0.250	0.133	0.571
	Right tilted	0.079	0.172	0.064	0.251
Band 66	Left cheek	0.295	0.162	0.140	0.457
	Left tilted	0.076	0.160	0.070	0.236
	Right cheek	0.605	0.250	0.133	0.855
	Right tilted	0.119	0.172	0.064	0.291



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LTE Band (ULCA)	Exposure position	ANT11	LTE Band 26		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Left cheek	0.165	0.162	0.140	0.327
	Left tilted	0.049	0.160	0.070	0.209
	Right cheek	0.321	0.250	0.133	0.571
	Right tilted	0.079	0.172	0.064	0.251



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Head(ENDC Standalone):

LTE Band (EN_DC)	Exposure position	ANT11	n2		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left cheek	0.328	0.257	0.067	0.585
	Left tilted	0.097	0.330	0.028	0.427
	Right cheek	0.640	0.407	0.086	1.047
	Right tilted	0.157	0.605	0.043	0.762

LTE Band (EN_DC)	Exposure position	ANT31	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left cheek	0.145	0.403	0.200	0.548
	Left tilted	0.087	0.321	0.093	0.408
	Right cheek	0.257	0.539	0.169	0.796
	Right tilted	0.116	0.522	0.087	0.638

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n7		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.261	0.161	0.408
	Left tilted	/	0.088	0.108	0.234	0.322
	Right cheek	/	0.088	0.608	0.394	0.696
	Right tilted	/	0.101	0.168	0.637	0.738
Band 4	Left cheek	/	0.088	0.261	0.161	0.349
	Left tilted	/	0.048	0.108	0.234	0.282
	Right cheek	/	0.052	0.608	0.394	0.660
	Right tilted	/	0.060	0.168	0.637	0.697
Band 5	Left cheek	0.323	0.140	0.261	/	0.584
	Left tilted	0.320	0.070	0.108	/	0.428
	Right cheek	0.499	0.133	0.608	/	1.107
	Right tilted	0.344	0.064	0.168	/	0.512
Band 66	Left cheek	/	0.088	0.261	0.161	0.349
	Left tilted	/	0.048	0.108	0.234	0.282
	Right cheek	/	0.052	0.608	0.394	0.660
	Right tilted	/	0.060	0.168	0.637	0.697



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n38		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.075	0.141	0.288
	Left tilted	/	0.088	0.018	0.203	0.291
	Right cheek	/	0.088	0.154	0.332	0.420
	Right tilted	/	0.101	0.037	0.438	0.539
Band 4	Left cheek	/	0.088	0.075	0.141	0.229
	Left tilted	/	0.048	0.018	0.203	0.251
	Right cheek	/	0.052	0.154	0.332	0.384
	Right tilted	/	0.060	0.037	0.438	0.498
Band 5	Left cheek	0.323	0.140	0.075	/	0.398
	Left tilted	0.320	0.070	0.018	/	0.338
	Right cheek	0.499	0.133	0.154	/	0.653
	Right tilted	0.344	0.064	0.037	/	0.381
Band 66	Left cheek	/	0.088	0.075	0.141	0.229
	Left tilted	/	0.048	0.018	0.203	0.251
	Right cheek	/	0.052	0.154	0.332	0.384
	Right tilted	/	0.060	0.037	0.438	0.498

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n41		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.221	0.141	0.368
	Left tilted	/	0.088	0.055	0.213	0.301
	Right cheek	/	0.088	0.497	0.348	0.585
	Right tilted	/	0.101	0.113	0.468	0.569
Band 4	Left cheek	/	0.088	0.221	0.141	0.309
	Left tilted	/	0.048	0.055	0.213	0.261
	Right cheek	/	0.052	0.497	0.348	0.549
	Right tilted	/	0.060	0.113	0.468	0.528
Band 26	Left cheek	0.323	0.140	0.221	/	0.544
	Left tilted	0.320	0.070	0.055	/	0.375
	Right cheek	0.499	0.133	0.497	/	0.996
	Right tilted	0.344	0.064	0.113	/	0.457
Band 66	Left cheek	/	0.088	0.221	0.141	0.309
	Left tilted	/	0.048	0.055	0.213	0.261
	Right cheek	/	0.052	0.497	0.348	0.549
	Right tilted	/	0.060	0.113	0.468	0.528



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n66		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.444	/	0.591
	Left tilted	/	0.088	0.116	/	0.204
	Right cheek	/	0.088	0.755	/	0.843
	Right tilted	/	0.101	0.171	/	0.272
Band 5	Left cheek	0.323	0.140	0.444	/	0.767
	Left tilted	0.320	0.070	0.116	/	0.436
	Right cheek	0.499	0.133	0.755	/	1.254
	Right tilted	0.344	0.064	0.171	/	0.515
Band 7	Left cheek	/	0.145	0.444	0.291	0.589
	Left tilted	/	0.087	0.116	0.356	0.443
	Right cheek	/	0.257	0.755	0.444	1.012
	Right tilted	/	0.116	0.171	0.570	0.686

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT12	
Band 7	Left cheek	0.207	0.145	0.239	0.273	0.480
	Left tilted	0.256	0.087	0.086	0.238	0.494
	Right cheek	0.497	0.257	0.769	0.672	1.266
	Right tilted	0.628	0.116	0.161	0.441	1.069



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT12	
Band 2	Left cheek	0.258	0.147	0.239	0.273	0.531
	Left tilted	0.310	0.088	0.086	0.238	0.548
	Right cheek	0.464	0.088	0.769	0.672	1.233
	Right tilted	0.525	0.101	0.161	0.441	0.966
Band 4	Left cheek	0.301	0.088	0.239	0.273	0.574
	Left tilted	0.375	0.048	0.086	0.238	0.613
	Right cheek	0.621	0.052	0.769	0.672	1.390
	Right tilted	0.575	0.060	0.161	0.441	1.016
Band 5	Left cheek	0.323	0.140	0.239	0.273	0.596
	Left tilted	0.320	0.070	0.086	0.238	0.558
	Right cheek	0.499	0.133	0.769	0.672	1.268
	Right tilted	0.344	0.064	0.161	0.441	0.785
Band 7	Left cheek	0.207	0.145	0.239	0.273	0.480
	Left tilted	0.256	0.087	0.086	0.238	0.494
	Right cheek	0.497	0.257	0.769	0.672	1.266
	Right tilted	0.628	0.116	0.161	0.441	1.069
Band 26	Left cheek	0.323	0.140	0.239	0.273	0.596
	Left tilted	0.320	0.070	0.086	0.238	0.558
	Right cheek	0.499	0.133	0.769	0.672	1.268
	Right tilted	0.344	0.064	0.161	0.441	0.785
Band 38	Left cheek	0.157	0.102	0.239	0.273	0.430
	Left tilted	0.232	0.063	0.086	0.238	0.470
	Right cheek	0.394	0.185	0.769	0.672	1.163
	Right tilted	0.534	0.086	0.161	0.441	0.975
Band 41	Left cheek	0.093	0.124	0.239	0.273	0.397
	Left tilted	0.125	0.064	0.086	0.238	0.363
	Right cheek	0.226	0.179	0.769	0.672	0.995
	Right tilted	0.298	0.102	0.161	0.441	0.739
Band 66	Left cheek	0.301	0.088	0.239	0.273	0.574
	Left tilted	0.375	0.048	0.086	0.238	0.613
	Right cheek	0.621	0.052	0.769	0.672	1.390
	Right tilted	0.575	0.060	0.161	0.441	1.016



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Head(ENDC Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT11	n2		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left cheek	0.328	0.257	0.067	0.585
	Left tilted	0.097	0.330	0.028	0.427
	Right cheek	0.640	0.407	0.086	1.047
	Right tilted	0.157	0.605	0.043	0.762

LTE Band (EN_DC)	Exposure position	ANT31	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Left cheek	0.145	0.403	0.200	0.548
	Left tilted	0.087	0.321	0.093	0.408
	Right cheek	0.257	0.539	0.169	0.796
	Right tilted	0.116	0.522	0.087	0.638

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n7		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.261	0.161	0.408
	Left tilted	/	0.088	0.108	0.234	0.322
	Right cheek	/	0.088	0.608	0.394	0.696
	Right tilted	/	0.101	0.168	0.637	0.738
Band 4	Left cheek	/	0.088	0.261	0.161	0.349
	Left tilted	/	0.048	0.108	0.234	0.282
	Right cheek	/	0.052	0.608	0.394	0.660
	Right tilted	/	0.060	0.168	0.637	0.697
Band 5	Left cheek	0.323	0.140	0.261	/	0.584
	Left tilted	0.320	0.070	0.108	/	0.428
	Right cheek	0.499	0.133	0.608	/	1.107
	Right tilted	0.344	0.064	0.168	/	0.512
Band 66	Left cheek	/	0.088	0.261	0.161	0.349
	Left tilted	/	0.048	0.108	0.234	0.282
	Right cheek	/	0.052	0.608	0.394	0.660
	Right tilted	/	0.060	0.168	0.637	0.697



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n38		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.075	0.141	0.288
	Left tilted	/	0.088	0.018	0.203	0.291
	Right cheek	/	0.088	0.154	0.332	0.420
	Right tilted	/	0.101	0.037	0.438	0.539
Band 4	Left cheek	/	0.088	0.075	0.141	0.229
	Left tilted	/	0.048	0.018	0.203	0.251
	Right cheek	/	0.052	0.154	0.332	0.384
	Right tilted	/	0.060	0.037	0.438	0.498
Band 5	Left cheek	0.323	0.140	0.075	/	0.398
	Left tilted	0.320	0.070	0.018	/	0.338
	Right cheek	0.499	0.133	0.154	/	0.653
	Right tilted	0.344	0.064	0.037	/	0.381
Band 66	Left cheek	/	0.088	0.075	0.141	0.229
	Left tilted	/	0.048	0.018	0.203	0.251
	Right cheek	/	0.052	0.154	0.332	0.384
	Right tilted	/	0.060	0.037	0.438	0.498

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n41		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.221	0.141	0.368
	Left tilted	/	0.088	0.055	0.213	0.301
	Right cheek	/	0.088	0.497	0.348	0.585
	Right tilted	/	0.101	0.113	0.468	0.569
Band 4	Left cheek	/	0.088	0.221	0.141	0.309
	Left tilted	/	0.048	0.055	0.213	0.261
	Right cheek	/	0.052	0.497	0.348	0.549
	Right tilted	/	0.060	0.113	0.468	0.528
Band 26	Left cheek	0.323	0.140	0.221	/	0.544
	Left tilted	0.320	0.070	0.055	/	0.375
	Right cheek	0.499	0.133	0.497	/	0.996
	Right tilted	0.344	0.064	0.113	/	0.457
Band 66	Left cheek	/	0.088	0.221	0.141	0.309
	Left tilted	/	0.048	0.055	0.213	0.261
	Right cheek	/	0.052	0.497	0.348	0.549
	Right tilted	/	0.060	0.113	0.468	0.528



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n66		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Left cheek	/	0.147	0.177	/	0.324
	Left tilted	/	0.088	0.046	/	0.134
	Right cheek	/	0.088	0.301	/	0.389
	Right tilted	/	0.101	0.068	/	0.169
Band 5	Left cheek	0.323	0.140	0.177	/	0.500
	Left tilted	0.320	0.070	0.046	/	0.366
	Right cheek	0.499	0.133	0.301	/	0.800
	Right tilted	0.344	0.064	0.068	/	0.412
Band 7	Left cheek	/	0.145	0.177	0.291	0.436
	Left tilted	/	0.087	0.046	0.356	0.443
	Right cheek	/	0.257	0.301	0.444	0.701
	Right tilted	/	0.116	0.068	0.570	0.686

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT12	
Band 7	Left cheek	0.207	0.145	0.095	0.137	0.344
	Left tilted	0.256	0.087	0.034	0.119	0.375
	Right cheek	0.497	0.257	0.306	0.337	0.834
	Right tilted	0.628	0.116	0.064	0.221	0.849



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT12	
Band 2	Left cheek	0.258	0.147	0.095	0.137	0.395
	Left tilted	0.310	0.088	0.034	0.119	0.429
	Right cheek	0.464	0.088	0.306	0.337	0.801
	Right tilted	0.525	0.101	0.064	0.221	0.746
Band 4	Left cheek	0.301	0.088	0.095	0.137	0.438
	Left tilted	0.375	0.048	0.034	0.119	0.494
	Right cheek	0.621	0.052	0.306	0.337	0.958
	Right tilted	0.575	0.060	0.064	0.221	0.796
Band 5	Left cheek	0.323	0.140	0.095	0.137	0.460
	Left tilted	0.320	0.070	0.034	0.119	0.439
	Right cheek	0.499	0.133	0.306	0.337	0.836
	Right tilted	0.344	0.064	0.064	0.221	0.565
Band 7	Left cheek	0.207	0.145	0.095	0.137	0.344
	Left tilted	0.256	0.087	0.034	0.119	0.375
	Right cheek	0.497	0.257	0.306	0.337	0.834
	Right tilted	0.628	0.116	0.064	0.221	0.849
Band 26	Left cheek	0.323	0.140	0.095	0.137	0.460
	Left tilted	0.320	0.070	0.034	0.119	0.439
	Right cheek	0.499	0.133	0.306	0.337	0.836
	Right tilted	0.344	0.064	0.064	0.221	0.565
Band 38	Left cheek	0.157	0.102	0.095	0.137	0.294
	Left tilted	0.232	0.063	0.034	0.119	0.351
	Right cheek	0.394	0.185	0.306	0.337	0.731
	Right tilted	0.534	0.086	0.064	0.221	0.755
Band 41	Left cheek	0.093	0.124	0.095	0.137	0.261
	Left tilted	0.125	0.064	0.034	0.119	0.244
	Right cheek	0.226	0.179	0.306	0.337	0.563
	Right tilted	0.298	0.102	0.064	0.221	0.519
Band 66	Left cheek	0.301	0.088	0.095	0.137	0.438
	Left tilted	0.375	0.048	0.034	0.119	0.494
	Right cheek	0.621	0.052	0.306	0.337	0.958
	Right tilted	0.575	0.060	0.064	0.221	0.796



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Body(Inter-band ULCA Standalone & Simultaneous transmission):

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 2		ULCA Summed SAR
			Ant13	Ant31	
Band 4	Front side	0.341	0.334	0.166	0.675
	Back side	0.421	0.470	0.253	0.891
Band 7	Front side	0.206	0.334	0.166	0.540
	Back side	0.372	0.470	0.253	0.842
Band 66	Front side	0.341	0.334	0.166	0.675
	Back side	0.421	0.470	0.253	0.891

LTE Band (ULCA)	Exposure position	ANT11	ANT13	ANT31	LTE Band 4			ULCA Summed SAR
					Ant11	Ant13	Ant31	
Band 5	Front side	/	0.195	0.127	0.341	/	/	0.536
	Back side	/	0.253	0.125	0.421	/	/	0.674
Band 7	Front side	0.206	/	/	/	0.446	0.128	0.652
	Back side	0.372	/	/	/	0.503	0.223	0.875

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 5		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Front side	0.206	0.195	0.127	0.401
	Back side	0.372	0.253	0.125	0.625
Band 66	Front side	0.341	0.195	0.127	0.536
	Back side	0.421	0.253	0.125	0.674

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 26		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Front side	0.206	0.195	0.127	0.401
	Back side	0.372	0.253	0.125	0.625



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Body(ENDC Standalone):

LTE Band (EN_DC)	Exposure position	ANT11	n2		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.206	0.463	0.149	0.669
	Back side	0.372	0.492	0.236	0.864

LTE Band (EN_DC)	Exposure position	ANT31	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 2	Front side	0.166	0.068	0.131	0.297
	Back side	0.253	0.089	0.158	0.411

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n7		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.233	0.064	0.399
	Back side	/	0.253	0.352	0.191	0.605
Band 4	Front side	/	0.128	0.233	0.064	0.361
	Back side	/	0.223	0.352	0.191	0.575
Band 5	Front side	0.195	0.127	0.233	/	0.428
	Back side	0.253	0.125	0.352	/	0.605
Band 66	Front side	/	0.128	0.233	0.064	0.361
	Back side	/	0.223	0.352	0.191	0.575

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n38		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.371	0.158	0.537
	Back side	/	0.253	0.634	0.512	0.887
Band 4	Front side	/	0.128	0.371	0.158	0.499
	Back side	/	0.223	0.634	0.512	0.857
Band 5	Front side	0.195	0.127	0.371	/	0.566
	Back side	0.253	0.125	0.634	/	0.887
Band 66	Front side	/	0.128	0.371	0.158	0.499
	Back side	/	0.223	0.634	0.512	0.857

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n41		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.302	0.126	0.468
	Back side	/	0.253	0.594	0.442	0.847
Band 4	Front side	/	0.128	0.302	0.126	0.430
	Back side	/	0.223	0.594	0.442	0.817
Band 26	Front side	0.195	0.127	0.302	/	0.497
	Back side	0.253	0.125	0.594	/	0.847
Band 66	Front side	/	0.128	0.302	0.126	0.430
	Back side	/	0.223	0.594	0.442	0.817



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n66		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.309	/	0.475
	Back side	/	0.253	0.401	/	0.654
Band 5	Front side	0.195	0.127	0.309	/	0.504
	Back side	0.253	0.125	0.401	/	0.654
Band 7	Front side	/	0.204	0.309	0.259	0.513
	Back side	/	0.192	0.401	0.507	0.699

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT12	
Band 7	Front side	0.157	0.204	0.482	0.452	0.686
	Back side	0.517	0.192	0.755	0.676	1.272

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT12	
Band 2	Front side	0.334	0.166	0.482	0.452	0.816
	Back side	0.470	0.253	0.755	0.676	1.225
Band 4	Front side	0.446	0.128	0.482	0.452	0.928
	Back side	0.503	0.223	0.755	0.676	1.258
Band 5	Front side	0.195	0.127	0.482	0.452	0.677
	Back side	0.253	0.125	0.755	0.676	1.008
Band 7	Front side	0.157	0.204	0.482	0.452	0.686
	Back side	0.517	0.192	0.755	0.676	1.272
Band 26	Front side	0.195	0.127	0.482	0.452	0.677
	Back side	0.253	0.125	0.755	0.676	1.008
Band 38	Front side	0.126	0.151	0.482	0.452	0.633
	Back side	0.522	0.131	0.755	0.676	1.277
Band 41	Front side	0.075	0.133	0.482	0.452	0.615
	Back side	0.267	0.123	0.755	0.676	1.022
Band 66	Front side	0.446	0.128	0.482	0.452	0.928
	Back side	0.503	0.223	0.755	0.676	1.258



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Body(ENDC Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT11	n2		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.206	0.463	0.149	0.669
	Back side	0.372	0.492	0.236	0.864

LTE Band (EN_DC)	Exposure position	ANT31	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 2	Front side	0.166	0.068	0.131	0.297
	Back side	0.253	0.089	0.158	0.411

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n7		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.233	0.064	0.399
	Back side	/	0.253	0.352	0.191	0.605
Band 4	Front side	/	0.128	0.233	0.064	0.361
	Back side	/	0.223	0.352	0.191	0.575
Band 5	Front side	0.195	0.127	0.233	/	0.428
	Back side	0.253	0.125	0.352	/	0.605
Band 66	Front side	/	0.128	0.233	0.064	0.361
	Back side	/	0.223	0.352	0.191	0.575

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n38		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.371	0.158	0.537
	Back side	/	0.253	0.634	0.512	0.887
Band 4	Front side	/	0.128	0.371	0.158	0.499
	Back side	/	0.223	0.634	0.512	0.857
Band 5	Front side	0.195	0.127	0.371	/	0.566
	Back side	0.253	0.125	0.634	/	0.887
Band 66	Front side	/	0.128	0.371	0.158	0.499
	Back side	/	0.223	0.634	0.512	0.857

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n41		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.302	0.126	0.468
	Back side	/	0.253	0.594	0.442	0.847
Band 4	Front side	/	0.128	0.302	0.126	0.430
	Back side	/	0.223	0.594	0.442	0.817
Band 26	Front side	0.195	0.127	0.302	/	0.497
	Back side	0.253	0.125	0.594	/	0.847
Band 66	Front side	/	0.128	0.302	0.126	0.430
	Back side	/	0.223	0.594	0.442	0.817



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n66		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.166	0.309	/	0.475
	Back side	/	0.253	0.401	/	0.654
Band 5	Front side	0.195	0.127	0.309	/	0.504
	Back side	0.253	0.125	0.401	/	0.654
Band 7	Front side	/	0.204	0.309	0.259	0.513
	Back side	/	0.192	0.401	0.507	0.699

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT12	
Band 7	Front side	0.157	0.204	0.068	0.072	0.276
	Back side	0.517	0.192	0.107	0.107	0.624

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT12	
Band 2	Front side	0.334	0.166	0.068	0.072	0.406
	Back side	0.470	0.253	0.107	0.107	0.577
Band 4	Front side	0.446	0.128	0.068	0.072	0.518
	Back side	0.503	0.223	0.107	0.107	0.610
Band 5	Front side	0.195	0.127	0.068	0.072	0.267
	Back side	0.253	0.125	0.107	0.107	0.360
Band 7	Front side	0.157	0.204	0.068	0.072	0.276
	Back side	0.517	0.192	0.107	0.107	0.624
Band 26	Front side	0.195	0.127	0.068	0.072	0.267
	Back side	0.253	0.125	0.107	0.107	0.360
Band 38	Front side	0.126	0.151	0.068	0.072	0.223
	Back side	0.522	0.131	0.107	0.107	0.629
Band 41	Front side	0.075	0.133	0.068	0.072	0.205
	Back side	0.267	0.123	0.107	0.107	0.374
Band 66	Front side	0.446	0.128	0.068	0.072	0.518
	Back side	0.503	0.223	0.107	0.107	0.610



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Hotspot(Inter-band ULCA Standalone & Simultaneous transmission):

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 2		ULCA Summed SAR
			Ant13	Ant31	
Band 4	Front side	0.273	0.294	0.239	0.567
	Back side	0.462	0.421	0.383	0.883
	Left side	0.566	0.073	0.070	0.639
	Right side	/	/	0.087	0.087
	Top side	0.049	0.468	/	0.517
	Bottom side	/	/	0.531	0.531
Band 7	Front side	0.109	0.294	0.239	0.403
	Back side	0.229	0.421	0.383	0.650
	Left side	0.237	0.073	0.070	0.310
	Right side	/	/	0.087	0.087
	Top side	0.067	0.468	/	0.535
	Bottom side	/	/	0.531	0.531
Band 66	Front side	0.273	0.294	0.239	0.567
	Back side	0.462	0.421	0.383	0.883
	Left side	0.566	0.073	0.070	0.639
	Right side	/	/	0.087	0.087
	Top side	0.049	0.468	/	0.517
	Bottom side	/	/	0.531	0.531

LTE Band (ULCA)	Exposure position	ANT11	ANT13	ANT31	LTE Band 4			ULCA Summed SAR
					Ant11	Ant13	Ant31	
Band 5	Front side	/	0.231	0.151	0.273	/	/	0.504
	Back side	/	0.288	0.232	0.462	/	/	0.750
	Left side	/	0.178	0.200	0.566	/	/	0.766
	Right side	/	/	0.129	/	/	/	0.129
	Top side	/	0.246	/	0.049	/	/	0.295
	Bottom side	/	/	0.238	/	/	/	0.238
Band 7	Front side	0.109	/	/	/	0.478	0.180	0.587
	Back side	0.229	/	/	/	0.638	0.303	0.867
	Left side	0.237	/	/	/	0.109	0.062	0.346
	Right side	/	/	/	/	/	0.102	0.102
	Top side	0.067	/	/	/	0.837	/	0.904
	Bottom side	/	/	/	/	/	0.467	0.467



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LTE Band (ULCA)	Exposure position	ANT11	LTE Band 5		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Front side	0.109	0.231	0.151	0.340
	Back side	0.229	0.288	0.232	0.517
	Left side	0.237	0.178	0.200	0.437
	Right side	/	/	0.129	0.129
	Top side	0.067	0.246	/	0.313
	Bottom side	/	/	0.238	0.238
Band 66	Front side	0.273	0.231	0.151	0.504
	Back side	0.462	0.288	0.232	0.750
	Left side	0.566	0.178	0.200	0.766
	Right side	/	/	0.129	0.129
	Top side	0.049	0.246	/	0.295
	Bottom side	/	/	0.238	0.238

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 26		ULCA Summed SAR
			Ant13	Ant31	
Band 7	Front side	0.109	0.231	0.151	0.340
	Back side	0.229	0.288	0.232	0.517
	Left side	0.237	0.178	0.200	0.437
	Right side	/	/	0.129	0.129
	Top side	0.067	0.246	/	0.313
	Bottom side	/	/	0.238	0.238



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Hotspot(ENDC Standalone & Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT11	n2		EN_DC Summed SAR
			ANT13	ANT31	
Band 7	Front side	0.109	0.417	0.219	0.526
	Back side	0.229	0.492	0.344	0.721
	Left side	0.237	0.087	0.061	0.324
	Right side	/	/	0.107	0.107
	Top side	0.067	0.530	/	0.597
	Bottom side	/	/	0.407	0.407

LTE Band (EN_DC)	Exposure position	ANT31	n5		EN_DC Summed SAR
			ANT13	ANT31	
Band 2	Front side	0.239	0.086	0.156	0.395
	Back side	0.383	0.102	0.167	0.550
	Left side	0.070	0.070	0.149	0.219
	Right side	0.087	/	0.092	0.179
	Top side	/	0.094	/	0.094
	Bottom side	0.531	/	0.175	0.706



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n7		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.239	0.120	0.049	0.359
	Back side	/	0.383	0.259	0.167	0.642
	Left side	/	0.070	0.351	0.003	0.421
	Right side	/	0.087	/	/	0.087
	Top side	/	/	0.063	0.226	0.226
	Bottom side	/	0.531	/	/	0.531
Band 4	Front side	/	0.180	0.120	0.049	0.300
	Back side	/	0.303	0.259	0.167	0.562
	Left side	/	0.062	0.351	0.003	0.413
	Right side	/	0.102	/	/	0.102
	Top side	/	/	0.063	0.226	0.226
	Bottom side	/	0.467	/	/	0.467
Band 5	Front side	0.231	0.151	0.120	/	0.351
	Back side	0.288	0.232	0.259	/	0.547
	Left side	0.178	0.200	0.351	/	0.551
	Right side	/	0.129	/	/	0.129
	Top side	0.246	/	0.063	/	0.309
	Bottom side	/	0.238	/	/	0.238
Band 66	Front side	/	0.180	0.120	0.049	0.300
	Back side	/	0.303	0.259	0.167	0.562
	Left side	/	0.062	0.351	0.003	0.413
	Right side	/	0.102	/	/	0.102
	Top side	/	/	0.063	0.226	0.226
	Bottom side	/	0.467	/	/	0.467



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n38		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.239	0.166	0.120	0.405
	Back side	/	0.383	0.374	0.488	0.871
	Left side	/	0.070	0.483	0.058	0.553
	Right side	/	0.087	/	/	0.087
	Top side	/	/	0.003	0.394	0.394
	Bottom side	/	0.531	/	/	0.531
Band 4	Front side	/	0.180	0.166	0.120	0.346
	Back side	/	0.303	0.374	0.488	0.791
	Left side	/	0.062	0.483	0.058	0.545
	Right side	/	0.102	/	/	0.102
	Top side	/	/	0.003	0.394	0.394
	Bottom side	/	0.467	/	/	0.467
Band 5	Front side	0.231	0.151	0.166	/	0.397
	Back side	0.288	0.232	0.374	/	0.662
	Left side	0.178	0.200	0.483	/	0.683
	Right side	/	0.129	/	/	0.129
	Top side	0.246	/	0.003	/	0.249
	Bottom side	/	0.238	/	/	0.238
Band 66	Front side	/	0.180	0.166	0.120	0.346
	Back side	/	0.303	0.374	0.488	0.791
	Left side	/	0.062	0.483	0.058	0.545
	Right side	/	0.102	/	/	0.102
	Top side	/	/	0.003	0.394	0.394
	Bottom side	/	0.467	/	/	0.467



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n41		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.239	0.128	0.106	0.367
	Back side	/	0.383	0.259	0.423	0.806
	Left side	/	0.070	0.400	0.052	0.470
	Right side	/	0.087	/	/	0.087
	Top side	/	/	0.046	0.411	0.411
	Bottom side	/	0.531	/	/	0.531
Band 4	Front side	/	0.180	0.128	0.106	0.308
	Back side	/	0.303	0.259	0.423	0.726
	Left side	/	0.062	0.400	0.052	0.462
	Right side	/	0.102	/	/	0.102
	Top side	/	/	0.046	0.411	0.411
	Bottom side	/	0.467	/	/	0.467
Band 26	Front side	0.231	0.151	0.128	/	0.359
	Back side	0.288	0.232	0.259	/	0.547
	Left side	0.178	0.200	0.400	/	0.600
	Right side	/	0.129	/	/	0.129
	Top side	0.246	/	0.046	/	0.292
	Bottom side	/	0.238	/	/	0.238
Band 66	Front side	/	0.180	0.128	0.106	0.308
	Back side	/	0.303	0.259	0.423	0.726
	Left side	/	0.062	0.400	0.052	0.462
	Right side	/	0.102	/	/	0.102
	Top side	/	/	0.046	0.411	0.411
	Bottom side	/	0.467	/	/	0.467



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n66		EN_DC Summed SAR
				ANT11	ANT13	
Band 2	Front side	/	0.239	0.330	/	0.569
	Back side	/	0.383	0.506	/	0.889
	Left side	/	0.070	0.612	/	0.682
	Right side	/	0.087	/	/	0.087
	Top side	/	/	0.072	/	0.072
	Bottom side	/	0.531	/	/	0.531
Band 5	Front side	0.231	0.151	0.330	/	0.561
	Back side	0.288	0.232	0.506	/	0.794
	Left side	0.178	0.200	0.612	/	0.812
	Right side	/	0.129	/	/	0.129
	Top side	0.246	/	0.072	/	0.318
	Bottom side	/	0.238	/	/	0.238
Band 7	Front side	/	0.264	0.330	0.100	0.594
	Back side	/	0.272	0.506	0.149	0.778
	Left side	/	0.089	0.612	0.028	0.701
	Right side	/	0.127	/	/	0.127
	Top side	/	/	0.072	0.111	0.111
	Bottom side	/	0.313	/	/	0.313

LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n77		EN_DC Summed SAR
				ANT11	ANT12	
Band 7	Front side	0.155	0.264	0.123	0.138	0.402
	Back side	0.595	0.272	0.205	0.220	0.815
	Left side	0.075	0.089	0.364	0.139	0.453
	Right side	/	0.127	/	/	0.127
	Top side	0.626	/	0.037	0.096	0.722
	Bottom side	/	0.313	/	/	0.313



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LTE Band (EN_DC)	Exposure position	ANT13	ANT31	n78		EN_DC Summed SAR
				ANT11	ANT12	
Band 2	Front side	0.294	0.239	0.123	0.138	0.432
	Back side	0.421	0.383	0.205	0.220	0.641
	Left side	0.073	0.070	0.364	0.139	0.437
	Right side	/	0.087	/	/	0.087
	Top side	0.468	/	0.037	0.096	0.564
	Bottom side	/	0.531	/	/	0.531
Band 4	Front side	0.478	0.180	0.123	0.138	0.616
	Back side	0.638	0.303	0.205	0.220	0.858
	Left side	0.109	0.062	0.364	0.139	0.473
	Right side	/	0.102	/	/	0.102
	Top side	0.837	/	0.037	0.096	0.933
	Bottom side	/	0.467	/	/	0.467
Band 5	Front side	0.231	0.151	0.123	0.138	0.369
	Back side	0.288	0.232	0.205	0.220	0.508
	Left side	0.178	0.200	0.364	0.139	0.564
	Right side	/	0.129	/	/	0.129
	Top side	0.246	/	0.037	0.096	0.342
	Bottom side	/	0.238	/	/	0.238
Band 7	Front side	0.155	0.264	0.123	0.138	0.402
	Back side	0.595	0.272	0.205	0.220	0.815
	Left side	0.075	0.089	0.364	0.139	0.453
	Right side	/	0.127	/	/	0.127
	Top side	0.626	/	0.037	0.096	0.722
	Bottom side	/	0.313	/	/	0.313
Band 26	Front side	0.231	0.151	0.123	0.138	0.369
	Back side	0.288	0.232	0.205	0.220	0.508
	Left side	0.178	0.200	0.364	0.139	0.564
	Right side	/	0.129	/	/	0.129
	Top side	0.246	/	0.037	0.096	0.342
	Bottom side	/	0.238	/	/	0.238
Band 38	Front side	0.141	0.305	0.123	0.138	0.443
	Back side	0.584	0.273	0.205	0.220	0.804
	Left side	0.070	0.077	0.364	0.139	0.441
	Right side	/	0.170	/	/	0.170
	Top side	0.492	/	0.037	0.096	0.588
	Bottom side	/	0.303	/	/	0.303
Band 41	Front side	0.066	0.200	0.123	0.138	0.338
	Back side	0.300	0.212	0.205	0.220	0.520
	Left side	0.041	0.035	0.364	0.139	0.405
	Right side	/	0.102	/	/	0.102
	Top side	0.248	/	0.037	0.096	0.344
	Bottom side	/	0.226	/	/	0.226



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Band 66	Front side	0.478	0.180	0.123	0.138	0.616
	Back side	0.638	0.303	0.205	0.220	0.858
	Left side	0.109	0.062	0.364	0.139	0.473
	Right side	/	0.102	/	/	0.102
	Top side	0.837	/	0.037	0.096	0.933
	Bottom side	/	0.467	/	/	0.467



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Limbs(Inter-band ULCA Standalone & Simultaneous transmission):

LTE Band (ULCA)	Exposure position	ANT11	LTE Band 2	ULCA Summed SAR
			Ant13	
Band 4	Front side	/	/	/
	Back side	2.112	1.048	3.160
	Left side	2.139	/	2.139
	Right side	/	/	/
	Top side	/	1.289	1.289
	Bottom side	/	/	/
Band 66	Front side	/	/	/
	Back side	2.112	1.048	3.160
	Left side	2.139	/	2.139
	Right side	/	/	/
	Top side	/	1.289	1.289
	Bottom side	/	/	/



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Limbs(ENDC Standalone & Simultaneous transmission):

LTE Band (EN_DC)	Exposure position	ANT13	n77		EN_DC Summed SAR
			ANT11	ANT12	
Band 7	Front side	/	/	/	/
	Back side	1.584	1.455	1.203	3.039
	Left side	/	1.322	/	1.322
	Right side	/	/	/	/
	Top side	1.118	/	/	1.118
	Bottom side	/	/	/	/

LTE Band (EN_DC)	Exposure position	ANT13	n78		EN_DC Summed SAR
			ANT11	ANT12	
Band 2	Front side	/	/	/	/
	Back side	1.048	1.455	1.203	2.503
	Left side	/	1.322	/	1.322
	Right side	/	/	/	/
	Top side	1.289	/	/	1.289
	Bottom side	/	/	/	/
Band 4	Front side	/	/	/	/
	Back side	1.377	1.455	1.203	2.832
	Left side	/	1.322	/	1.322
	Right side	/	/	/	/
	Top side	1.466	/	/	1.466
	Bottom side	/	/	/	/
Band 7	Front side	/	/	/	/
	Back side	1.584	1.455	1.203	3.039
	Left side	/	1.322	/	1.322
	Right side	/	/	/	/
	Top side	1.118	/	/	1.118
	Bottom side	/	/	/	/
Band 66	Front side	/	/	/	/
	Back side	1.377	1.455	1.203	2.832
	Left side	/	1.322	/	1.322
	Right side	/	/	/	/
	Top side	1.466	/	/	1.466
	Bottom side	/	/	/	/



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-023	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-025	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-031	2024/03/18	2025/03/17
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2024/01/03	2025/01/02
☒	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2023/08/07	2024/08/06
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-068	2023/11/23	2024/11/22
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-R-002	2023/12/14	2024/12/13
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2023/09/14	2024/09/13
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance	AMP28-3W	SZ-WSR-A-002	NCR	NCR



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		Directions Systems Inc.				
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

Note: All the equipment are within the valid period when the tests are performed.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---