

Report No.: SUAR/2021/C000309

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FCC SAR TEST REPORT

Application No.: AR/2021/C0003

Applicant: Xiaomi Communications Co., Ltd. **Manufacturer:** Xiaomi Communications Co., Ltd.

Product Name: Mobile Phone Model No.(EUT): 22021211RG

Trade Mark: POCO

FCC ID: 2AFZZ211RG

Standards: FCC 47CFR §2.1093

Date of Receipt: 2022-01-17

Date of Test: 2022-01-19 to 2022-02-18

Date of Issue: 2022-02-24
Test conclusion: PASS *

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

Authorized Signature:

Panta Sun

Wireless Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SUAR/2021/C000309	01	Original	2022-02-24



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TEST SUMMARY

	Maximum Reported SAR(W/kg)						
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR			
GSM850	1.01	0.29	1.05	2.52			
GSM1900	1.07	0.31	0.64	/			
WCDMA Band II	1.09	0.56	1.00	/			
WCDMA Band IV	1.09	0.56	0.95	/			
WCDMA Band V	0.69	0.42	0.93	/			
LTE Band 2	1.09	0.70	0.78	/			
LTE Band 4	1.05	0.57	1.04	/			
LTE Band 5	0.44	0.34	0.55	/			
LTE Band 7	1.01	0.65	0.61	/			
LTE Band 12	0.96	0.33	0.93	/			
LTE Band 17	0.96	0.33	0.93	/			
LTE Band 26	0.83	0.68	1.05	2.63			
LTE Band 38	0.54	0.54	0.55	/			
LTE Band 41	0.54	0.54	0.55	/			
NR Band 5	0.39	0.36	0.55	/			
NR Band 7	0.90	0.56	0.63	/			
NR Band 38	1.08	1.09	0.56	/			
NR Band 41	1.08	1.09	0.56	/			
NR Band 77	1.08	0.77	0.87	/			
NR Band 78 (Class2/Class3)	1.08	0.54	0.80	/			
WI-FI (2.4GHz)	1.04	0.27	0.49	/			
WI-FI (5GHz)	1.04	0.42	0.84	2.65			
BT	0.80	0.22	0.31	/			
SAR Limited(W/kg)		1.6		4.0			
M							
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR			
Sum SAR	1.56	1.57	1.59	2.65			
SPLSR	N/A	N/A	N/A	N/A			
SPLSR Limited		0.1					

Note:

1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.

2) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 17 (Frequency range:704-716 MHz)/LTE Band 38 (Frequency range:2570-2620 MHz)/n38 (Frequency range:2570-2620 MHz) is respectively covered by LTE Band 12 (Frequency range:699-716 MHz)/LTE Band 41 (Frequency range:2496-2690 MHz)/n41 (Frequency range:2496-2690 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

Reviewed by Well Wei

Prepared by

Nature Shen



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1 General Information

1.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Nature Shen, KING-P li





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1.3 Test Facility

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

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





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1.4 General Description of EUT

Device Type :	portable device						
Exposure Category:	uncontrolled environment / general population						
Product Name:	Mobile Phone	oneral population					
Model No.(EUT):	22021211RG						
FCC ID:	2AFZZ211RG						
Trade Mark:	POCO						
Product Phase:	Identical Prototype						
		60067047/865998060043261/8	65998060066809/				
IMEI:	865998060059341/8659980						
Hardware Version:	P2						
Software Version:	MIUI 13						
Device Operating Configuration	ns:						
Modulation Mode:	CP-OFDM (QPSK, 16QAM,	I, 256QAM BPSK, QPSK, 16QAM, 64QAM,	,,				
Device Class:	В						
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33				
HSDPA UE Category:	24	HSUPA UE Category	7				
DC-HSDPA UE Category:	24						
	4,tested with power level 5(GSM850)						
Power Class	1,tested with power level 0(GSM1900)						
1 Ower Glass	3, tested with power control "all 1"(WCDMA Band)						
	3, tested with power control Max Power(LTE Band)						
	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				
	LTE Band 2	1850 ~1910	1930 ~1990				
	LTE Band 4	1710~1755	2110~2155				
Fraguency Panda:	LTE Band 5	824~849	869-894				
Frequency Bands:	LTE Band 7	2500~2570	2620~2690				
	LTE Band 12	699~716	729~746				
	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				
	NR Band n5	824~849	869-894				
	NR Band n7	2620~2690					
	NR Band n38 2570~2620 2570~2620						



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	NR Band n41	2496~2690	2496~2690	
	ND Bond n77	3450~3550	3450~3550	
	NR Band n77	3700~3980	3700~3980	
	ND Bond n70 (Class 2/2)	3450~3550	3450~3550	
	NR Band n78 (Class 2/3)	3700~3800	3700~3800	
	Bluetooth	2400~2483.5	2400~2483.5	
	Wi-Fi 2.4G	2402~2462	2402~2462	
		5150~5250	5150~5250	
	Wi-Fi 5G	5250~5350	5250~5350	
	VVI-I-I SG	5470~5725	5470~5725	
		5725~5850	5725~5850	
RF Cable:	□ Provided by the limit of the limi	y the aplicant Provided by the laboratory		
	Model:	BP49		
Pottory Information:	Normal Voltage:	+3.87V		
Battery Information:	Rated capacity:	4400mAh		
	Manufacturer:	Dongguan Amprerex Technology Limited		



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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations (Back View) can refer to Appendix F.

Note:

- The test device is a smart phone. The overall diagonal dimension of this device is 173 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.
- 2) DIV Antenna does not support transmitter function.

According to the distance between 5G NR/LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front Back		Left	Right	Тор	Bottom
Ant 0	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes
Ant 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 6	Hotspot/Product specific 10g SAR	Yes	Yes	No	No	Yes	No
Ant 7	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 8	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 16+18	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 17+18	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1: EUT Sides for SAR Testing Note:

1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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1.4.2 LTE CA additional specification

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

- a) Intra-band carrier aggregation requirements for uplink.
- b) 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 Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. 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.

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.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit			BS receive / HF transmit BS transmit / HF receive		` ' 1		Duplex Mode
Dallu	Dallu	Ful_low - Ful_high		F _{DL_lov}	$F_{DL_low} - F_{DL_high}$				
CA_7	7	2500 MHz	-	2570 MHz	2620 MHz	_	2690 MHz	FDD	
CA 38	38	2570 MHz	_	2620 MHz	2570 MHz	-	2620 MHz	TDD	



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c) The device supports Inter-band uplink LTE CA for CA_4A-7A with two component carriers in the uplink.

1. For Inter-band uplink LTE 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 LTE 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 LTE CA component band as the inter-band Uplink LTE CA SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report. Since the maximum output power of the LTE Inter-band uplink band is ≤ the LTE Band, the SAR data of the LTE Band is used instead of the SAR data of the LTE Inter-band uplink band.



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1.4.3 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) 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.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 3) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.
- 4) 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).

The detailed power reduction information can be referred to Appendix E.





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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 D01	General RF Exposure Guidance v06
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:

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.)



^{*} 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.



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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 ir	compliance with requirement of standards.				

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

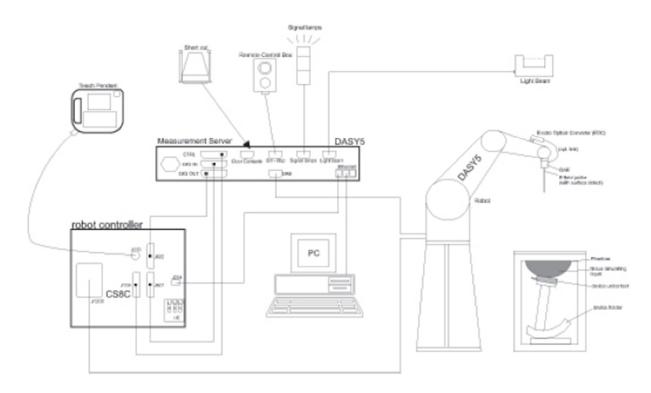
The DASY5 system for performing compliance tests consists of the following items:

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



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- 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 <u>calibration service</u> 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: \pm 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



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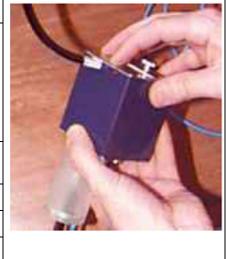
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3.3 Data Acquisition Electronics (DAE)

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	approx. 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.



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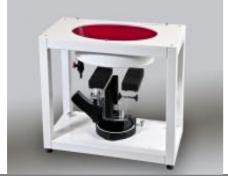
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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid	Compatible with all SPEAG tissue	
Compatibility	simulating liquids (incl. DGBE type)	i i
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	100
Dimensions	Major axis: 600 mm	0.10
	Minor axis: 400 mm	
Filling Volume	approx. 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.



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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 ε =3 and loss tangent δ =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.



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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≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 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.



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			<u> </u>		
			≤ 3 GHz	> 3 GHz	
Maximum distance from (geometric center of pr			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°	
			\leq 2 GHz: \leq 15 mm 3 - 4 GHz: \leq 12 mm 2 - 3 GHz: \leq 12 mm 4 - 6 GHz: \leq 10 mm		
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$	
	uniform grid: Δz _{Z∞m} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid $\Delta z_{Z_{00m}}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 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 %



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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 ".DAE4". 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 reevaluated. 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
- Crest factor cf
Media parameters: - Conductivity

- Density p

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.

3

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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z) Ui = 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:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



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H-field probes:

$$\begin{array}{lll} \textbf{\textit{H}}_i = (\textbf{\textit{V}}_i)^{1/2} - (\textbf{\textit{aio}} & \textbf{\textit{aii}} \textbf{\textit{f}} & \textbf{\textit{aii}} \textbf{\textit{f}}^2) / f \\ \text{With} & \text{Vi = compensated signal of channel i} & (i = x, y, z) \\ \text{Normi = sensor sensitivity of channel I} & (i = x, y, z) \end{array}$$

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

Hi = 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.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

SAR = local specific absorption rate in mW/g

Etot = 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.

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

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 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 remounted 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 \geq 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 KDB865664 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.



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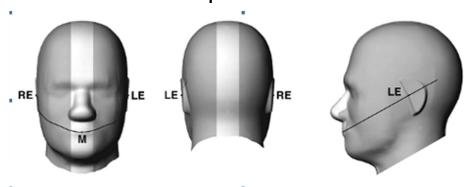
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5 Description of Test Position

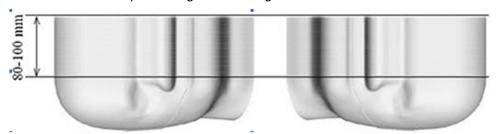
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

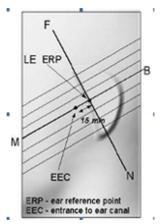


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

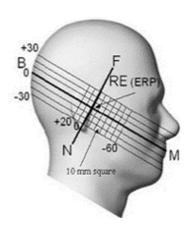
Note: The centre strip including the nose region has a different thickness tolerance.



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



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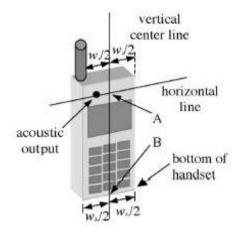


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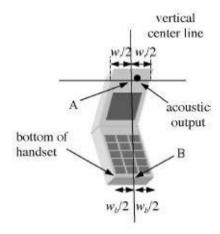
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5.1.2 EUT constructions



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 "cheek" 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.



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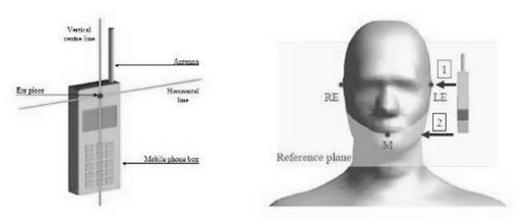
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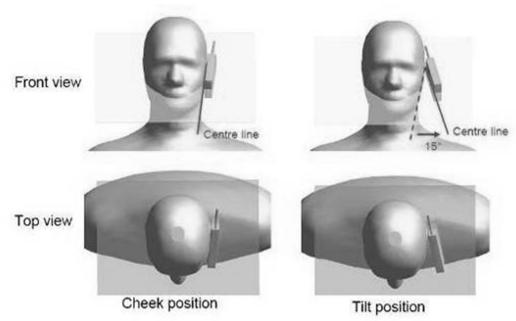
5.1.4 Definition of the "tilted" position

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



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5.2 Body Exposure Condition

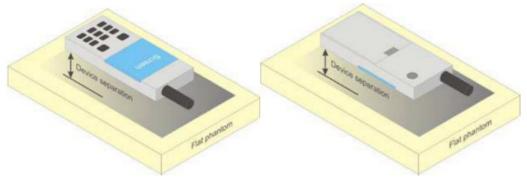
5.2.1 Body-worn accessory exposure conditions

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, Bodyworn 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 D01 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 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



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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 \geq 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 648474 D04, 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 \leq 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.

GSM850 (Ant1)

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Product Specific 10- g SAR SAR Exclusio
	Hotspot Test data(Separate 10mm)									
Front side	GPRS 4TS	190/836.6	1:2.075	0.411	0.19	24.15	28.50	2.723	1.119	Yes
Back side	GPRS 4TS	190/836.6	1:2.075	0.506	0.03	24.15	28.50	2.723	1.378	No
Left side	GPRS 4TS	190/836.6	1:2.075	0.799	0.04	24.15	28.50	2.723	2.175	No
Left side	GPRS 4TS	128/824.2	1:2.075	0.860	0.01	24.12	28.50	2.742	2.358	No
Left side repeat	GPRS 4TS	128/824.2	1:2.075	0.783	0.01	24.12	28.50	2.742	2.147	No
Left side	GPRS 4TS	251/848.8	1:2.075	0.768	0.07	24.05	28.50	2.786	2.140	No

LTE B26 (Ant1)

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Product Specific 10-g SAR SAR Exclusio
	Hotspot Test data(Separate 10mm 1RB)										
Front side	15	QPSK 1_0	26865/831.5	1:1	0.490	0.01	22.34	24.70	1.722	0.844	Yes
Back side	15	QPSK 1_0	26865/831.5	1:1	0.482	0.11	22.34	24.70	1.722	0.830	Yes
Left side	15	QPSK 1_0	26865/831.5	1:1	0.887	0.05	22.34	24.70	1.722	1.527	No
			Ho	tspot Test da	ita (Separate	10mm 50%R	B)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.489	0.13	22.21	24.70	1.774	0.868	Yes
Back side	15	QPSK 36_0	26865/831.5	1:1	0.487	0.18	22.21	24.70	1.774	0.864	Yes
Left side	15	QPSK 36_0	26865/831.5	1:1	0.936	0.11	22.21	24.70	1.774	1.661	No
Left side repeat	15	QPSK 36_0	26865/831.5	1:1	0.926	-0.02	22.21	24.70	1.774	1.643	No
	Hotspot Test data (Separate 10mm 100%RB)										
Left side	15	QPSK 75_0	26865/831.5	1:1	0.889	0.03	21.94	24.70	1.888	1.678	No



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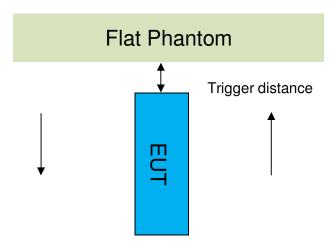
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5.4 Proximity Sensor Triggering Test

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)						
Antenna	Ant3/4/5/6/8					
Position	Position Front/Back/Right/Bottom side					
Minimum	16	6				
Required SAR Test	15	5				

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.



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DUT Moving Toward(Trigger)the Phantom







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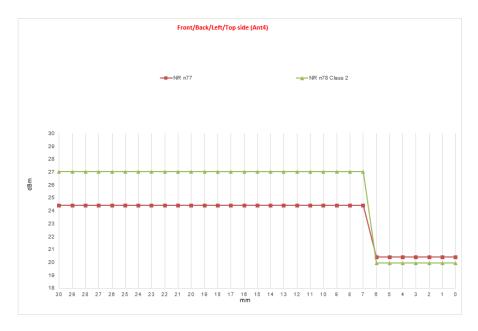


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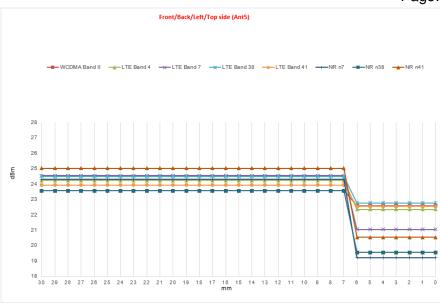
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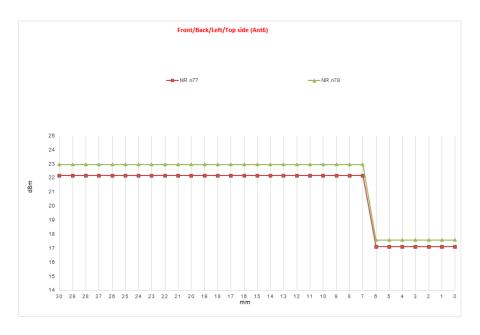


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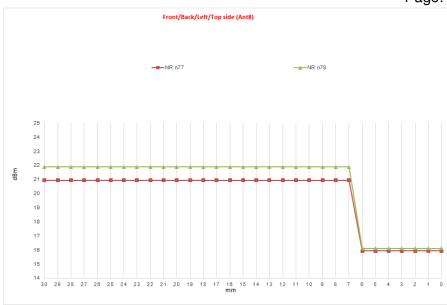
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DUT Moving Away(Release) from the Phantom





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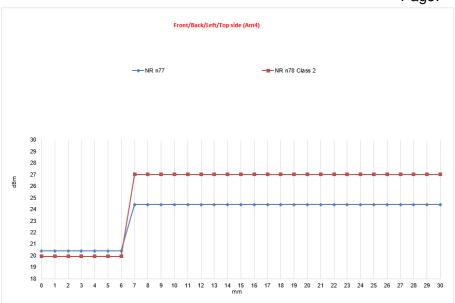
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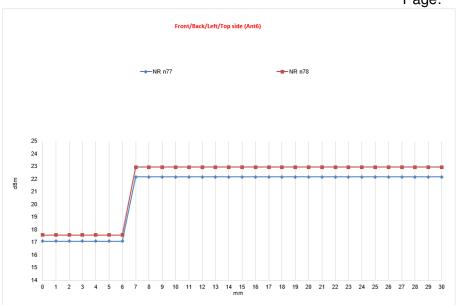
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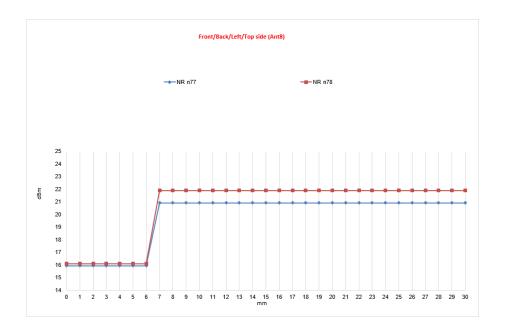


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Proximity sensor coverage

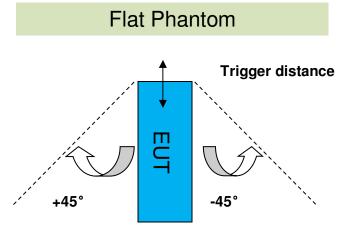
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, 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 to 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 to Proximity Sensor Triggering for Top Side												
Band Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which		Power Reduction Status										
	power reduction was maintained over ±45°	-45° -35° -25° -15° -5° 0°					5°	15°	25°	35°	45°		
Ant0/2	Right/Bottom side:16mm	Right/Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant3/4/5/6/8	Left/Top side:6mm	Left/Bottom side:6mm	on	on	on	on	on	on	on	on	on	on	on



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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6 SAR System Verification 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:

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Ingredients	Frequency (MHz)							
(% by weight)	450	700-900	1750-2000	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 MΩ+ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2 ℃.

	Measured	Target Tiss	ue (±5%)	Measure	d Tissue	Liquid	
Tissue Type	Frequency (MHz)	ε _r	σ(S/m)	٤r	σ(S/m)	Temp.(°C)	Measured Date
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	41.662	0.875	22.2	2022/1/23
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.652	0.905	22.6	2022/1/19
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.687	0.901	22.3	2022/1/21
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.944	0.890	22.4	2022/1/25
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	40.958	0.890	22.1	2022/1/26
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.721	1.336	22.5	2022/2/2
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	38.751	1.331	22.6	2022/2/5
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	38.765	1.397	22.5	2022/1/29
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.060	1.401	22.3	2022/2/3
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.416	1.791	22.5	2022/2/7
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.407	2.008	22.3	2022/2/5
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.479	1.978	22.4	2022/2/6
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.010	1.985	22.2	2022/2/8
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.510	1.991	22.5	2022/2/9
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.101	1.959	22.4	2022/2/10
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.883	1.961	22.3	2022/2/11
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.881	1.960	22.5	2022/2/12
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.881	1.960	22.4	2022/2/13
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	38.355	2.957	22.4	2022/2/8
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	38.180	2.978	22.4	2022/2/12
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	38.248	2.988	22.1	2022/2/13
3500 Head	3500	37.9 (36.01~39.8)	2.91 (2.76~3.06)	37.467	2.832	22.6	2022/2/13



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3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	36.717	3.045	22.1	2022/2/14
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	36.150	3.032	22.1	2022/2/15
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	37.015	3.451	22.5	2022/2/10
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.495	3.283	22.1	2022/2/11
5250Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	35.574	4.725	22.1	2022/2/17
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	34.902	5.198	22.6	2022/2/18
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.530	5.382	22.0	2022/2/18

Table 4: Measurement result of Tissue electric parameters



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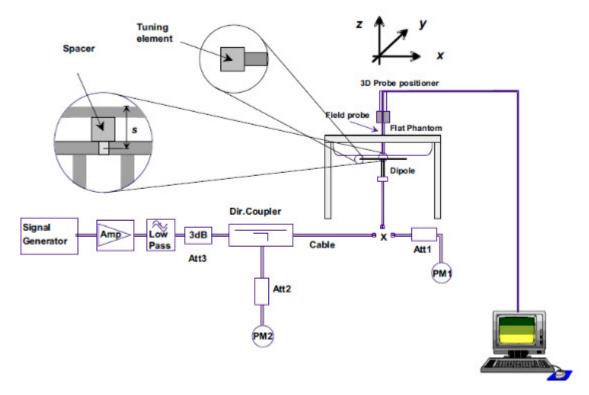
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SAR System Check 6.2

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 +/- 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±2 °C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 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



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, 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 10% 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)

_		y Cystein		` '					
Valida	tion Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp.	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	(°C)	
D750V3	Head	2.28	1.50	9.12	6.00	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.2	2022/1/23
D835V2	Head	2.25	1.47	9.00	5.88	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.6	2022/1/19
D835V2	Head	2.24	1.46	8.96	5.84	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.3	2022/1/21
D835V2	Head	2.51	1.65	10.04	6.60	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.4	2022/1/25
D835V2	Head	2.58	1.61	10.32	6.44	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.1	2022/1/26
D1750V2	Head	8.74	4.64	35.36	18.56	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.5	2022/2/2
D1750V2	Head	8.71	4.62	34.84	18.48	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.6	2022/2/5
D1900V2	Head	9.63	4.92	38.52	19.68	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.5	2022/1/29
D1900V2	Head	9.66	4.94	38.64	19.76	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.3	2022/2/3
D2450V2	Head	13.40	6.27	53.60	25.08	52.2 (46.98~57.42)	24.5 (22.05~26.95)	22.5	2022/2/7
D2600V2	Head	14.20	6.35	56.80	25.40	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022/2/5
D2600V2	Head	14.50	6.82	58.00	27.28	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.4	2022/2/6
D2600V2	Head	14.10	6.30	56.40	25.20	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.2	2022/2/8
D2600V2	Head	14.10	6.33	56.40	25.32	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.5	2022/2/9
D2600V2	Head	13.80	6.20	55.20	24.80	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.4	2022/2/10
D2600V2	Head	13.90	6.23	55.60	24.92	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.3	2022/2/11
D2600V2	Head	14.00	6.27	56.00	25.08	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.5	2022/2/12
D2600V2	Head	13.90	6.22	55.60	24.88	57.1 (51.39~62.81)	25.4 (22.86~27.94)	22.4	2022/2/13
Valida	tion Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	(±10%)	Liquid Temp. (°C)	Measured Date
	T	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	(C)	
	Head(3.5GHz)	6.31	2.40	63.10	24.00	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.4	2022/2/8
D3500V2	Head(3.5GHz)	6.54	2.46	65.40	24.60	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.4	2022/2/12
	Head(3.5GHz)	6.56	2.47	65.60	24.70	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.1	2022/2/13
	Head(3.5GHz)	6.21	2.34	62.10	23.40	66.6 (59.94~73.26)	24.9 (22.41~27.39)	22.6	2022/2/13
D3700V2	Head(3.7GHz)	6.39	2.59	63.90	25.90	68 (61.20~74.80)	24.6 (22.14~27.06)	22.1	2022/2/14
	Head(3.7GHz)	6.73	2.52	67.30	25.20	68 (61.20~74.80)	24.6 (22.14~27.06)	22.5	2022/2/15
D3900V2	Head(3.9GHz)	7.48	2.58	74.80	25.80	69.7 (62.73~76.67)	24 (21.60~26.40)	22.5	2022/2/10
	Head(3.9GHz)	7.11	2.54	71.10	25.40	69.7 (62.73~76.67)	24 (21.60~26.40)	22.1	2022/2/11
	Head(5.25GHz)	7.26	2.08	72.60	20.80	77.1 (69.39~84.81)	22.2 (19.98~24.42)	22.1	2022/2/17
D5GHzV2	Head(5.6GHz)	8.63	2.46	86.30	24.60	80.2 (72.18~88.22) 77.4	23.1 (20.79~25.41) 22.1	22.6	2022/2/18
	Head(5.75GHz)	8.09	2.30	80.90	23.00	(69.66~85.14)	(19.89~24.31)	22.0	2022/2/18

Table 5: SAR System Check Result



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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 $\leq 1/4$ 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 CMW500 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 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. 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 and tolerance, 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



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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 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 spreaing code or DPDCHn, for the highest reported bodyworn 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 / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is \leq 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

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.



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	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: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β 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, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with β hs= $24/15*\beta$ c.

Note3: CM=1 for β c/ β d =12/15, β hs/ β 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.

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



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft 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₽	βοσ	βd€	β _d (SF) _e	β₀∕β₄₽	β _{hs} (1	βec↔	$eta_{ ext{ed}}$	β _e _{o+} (SF)+	βed↔ (code)↔	CM ⁽ 2)↔ (dB)↔	MP R↓ (dB)↓	AG(4)+1 Inde x+1	E- TFC I _e
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(64₽	11/15(3)43	22/15₽	209/22 5₊³	1039/225	4₽	1₽	1.0₽	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12 0	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4.	2₽	2.0₽	1.0₽	15.0	92₽
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5€	15/15(4)43	15/15(4)(3)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1€	1.0∉	0.0₽	210	81∉

 \triangle ACK, \triangle NACK and \triangle CQI = 8 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ $\beta_{hs} = 30/15 * \beta_{c+1}$

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 difference

Note 3: For subtest 1 the β₀/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 $\beta_d = 15/15$ e

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 $\beta_d = 15/15$ e

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g+

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Subtests for UMTS Release 6 HSUPA Table 8:

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading 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	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	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



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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/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	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.



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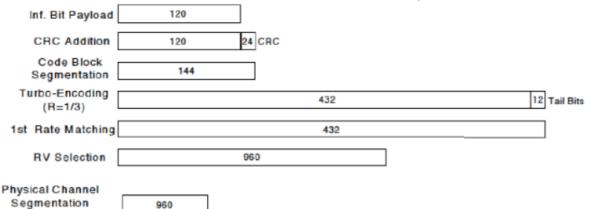


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test₽	β _c ₽	β _d ⊷	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	β _{hs} .(1)₽	CM(dB)(2)	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₽

Note: 1: \triangle ACK, \triangle NACK and \triangle CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c = 30/15$

Note 2: 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. 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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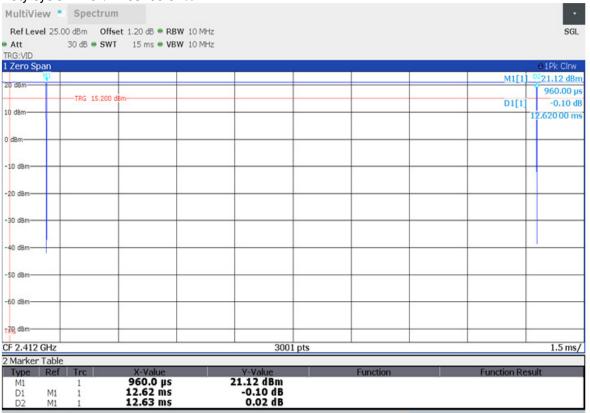
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7.2.3 WiFi Test Configuration

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

Wi-Fi 2.4GHz 802.11b MIMO: Duty cycle=12.62/12.63=99.92%





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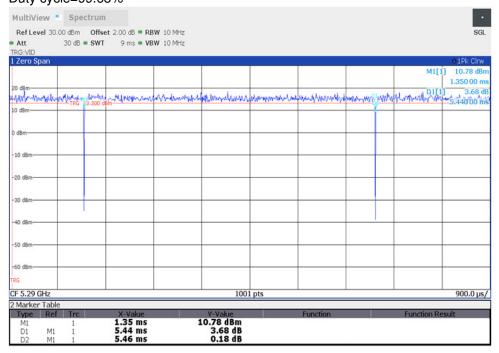


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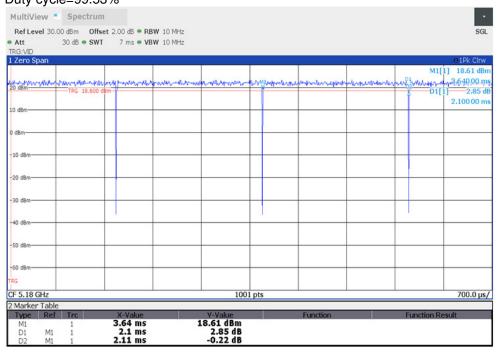
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Wi-Fi 5GHz 802.11ac VHT80 MIMO: Duty cycle=99.63%



Wi-Fi 5GHz 802.11a MIMO: Duty cycle=99.53%





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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.

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.3.4 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.



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- 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.
 - 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"



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7.2.3.5 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 802.11q/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.





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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 Anritsu MT8820C 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.

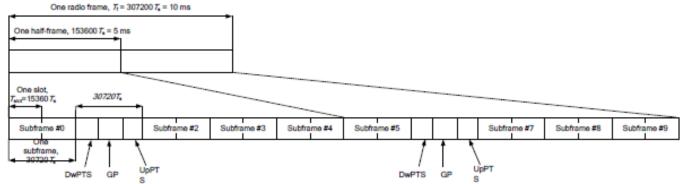
TDD LTE test consideration

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:





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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
subframe	DwPTS	Up	PTS	DwPTS	Up	PTS		
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts		
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15	2000.18		
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4384.Ts	5120.Ts		
6	19760.Ts			23040.Ts	4304.18	5120.18		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	C	С	U	D	S	U	U	С
1	5 ms	D	S	٥	U	D	D	S	U	U	D
2	5 ms	D	S	C	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	٥	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 Configurat	Downlink-to- Uplink Switch- point Periodicity					ame N	umber					Calculated Duty Cycle (%)
ion	pomiti orionity	0	1	2	3	4	5	6	7	8	9	G) 5.5 (75)
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	J	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



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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	Cha	nnel bandw	idth / Tra	ansmission	bandwidth ((N _{RB})	MPR (dB)
	1.4	3.0	5	10	15	20	1
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

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 > 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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7.2.5 NR Band Test Configuration

1. NR Band n5/n7/n38/n41/n77/n78 support SA mode and n5/n7/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:

oporat	מוסווס מוס	0000.2	,,,,	******		,, <u> </u>	0 11100	o and t		G. C. G. 1. G	aio poo	0.0.0 0.0		mg tab.	<u> </u>
Dond/	A ntonno	LTE B	and 5		LTE B	and 7			LTE B	and 38			LTE B	and 41	
Band//	Antenna	Ant0	Ant1	Ant0	Ant2	Ant3	Ant5	Ant0	Ant2	Ant3	Ant5	Ant0	Ant2	Ant3	Ant5
n5	Ant0			√	√	√	√								
IID	Ant1			√	√	√	√								
	Ant0	√	√												
n7	Ant2	√	√												
117	Ant3	√	√												
	Ant5	√	√												
	Ant4	√	√	√	√	√	√	√	√	√	√	√	√	√	√
~70	Ant6	√	√	√	√	√	√	√	√	√	√	√	√	√	√
n78	Ant7	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Ant8	√	√	√	√	√	√	√	√	√	√	√	√	√	√

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

	Band		n5	n7	n38	n41	n77	n78
		PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
	DFT-s-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
Modulation		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes
	CF-OFDIVI	64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	Duty Cycle			100%	100%	100%	100%	100%

Band	SCS							Bandwic	lth					
Dallu	303	5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
"F	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	30KHZ	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	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
117	30KHZ	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
n20	15KHZ	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	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n/11	15KHZ	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
n41	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n77	15KHZ	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
11//	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n70	15KHZ	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
n78	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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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 \leq 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 $\frac{1}{2}$ 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.

Modul	otion		MPR (dB)	
IVIOGUI	alion	Edge RB allocations	Outer RB allocations	Inner RB allocations
	PI/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹
	FI/Z DF3N	≤ 0.5 ²	≤ 0.5 ²	02
DFT-s-OFDM	QPSK	≤	1	0
	16 QAM	≤	2	≤ 1
	64 QAM		≤ 2.5	
	256 QAM		≤ 4.5	
	QPSK	≤	3	≤ 1.5
CP-OFDM	16 QAM	≤	3	≤ 2
GF-OFDIVI	64 QAM			
	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 ≤ 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.



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8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

Note:

1) . For GSM 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: Frame-averaged power = 10 x log (Burst-averaged power mW x 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 ½ 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.



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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%



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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 D01, 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:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - \bullet ≤ 0.6 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.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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 ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 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 ≤ 1.2 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 does not support hotspot function.
- 3) 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 ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.





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8.2.1 SAR Result of GSM850

Left cheek GPRS 4TS 190/836.6 12.075 0.181 0.18 26.17 28.00 1.524 0.276 22.6					Ant 0 Test	Record					
Left cheek	Test position	Test mode		-	(W/kg)	drift				SAR 1-g	Liquid Temp.(℃)
Left tilled GPRS 4TS 190/836.6 12.075 0.075 0.17 26.17 28.00 1.524 0.114 22.6					Head Tes	st Data					
Right tilted	Left cheek	GPRS 4TS	190/836.6	1:2.075	0.181	0.18	26.17	28.00	1.524	0.276	22.6
Right tilted	Left tilted	GPRS 4TS	190/836.6	1:2.075	0.075	0.17	26.17	28.00	1.524	0.114	22.6
Right tilted GPRS 4TS 190/836.6 12.075 0.70 0.19 26.17 28.00 1.524 0.107 22.6		GPRS 4TS	190/836.6	1:2.075	0.093	0.02	26.17	28.00	1.524	0.142	22.6
Front side										0.107	
Front side	J								-	1	
Back side GPRS 4TS 190/836.6 1:2.075 0.196 0.05 26.17 28.00 1.524 0.299 22.6	Front side	GPRS 4TS	190/836.6					28.00	1.524	0.232	22.6
Hollsport Test datal(Separate 10mm)											
Front side	24011 0140	0.110 110	100/00010					20.00		0.200	
Back side	Front side	GPRS 4TS	190/836.6					28.00	1.524	0.448	22.6
Right side											
Bottom side GPRS 4TS 190/836.6 1:2.075 0.148 -0.07 26.17 28.00 1.524 0.226 22.6											
Test position Test mode Test	0										
Test mode	Dolloin Side	GI 110 410	130/030.0	1.2.075		L	20.17	20.00	1.52-7	0.220	22.0
Head Test Data	Test position	Test mode			SAR (W/kg)	Power drift				SAR 1-g	Liquid Temp.(℃)
Left cheek GPRS 4TS 190/836.6 1:2.075 0.793 0.03 24.61 25.50 1.227 0.973 22.6 Left tilted GPRS 4TS 190/836.6 1:2.075 0.122 0.17 24.61 25.50 1.227 0.150 22.6 Right cheek GPRS 4TS 190/836.6 1:2.075 0.423 0.18 24.61 25.50 1.227 0.519 22.6 Right tilted GPRS 4TS 190/836.6 1:2.075 0.099 -0.20 24.61 25.50 1.227 0.122 22.6 Left cheek GPRS 4TS 128/824.2 1:2.075 0.775 0.09 24.59 25.50 1.233 0.956 22.6 Left cheek GPRS 4TS 251/848.8 1:2.075 0.809 0.19 24.55 25.50 1.245 1.007 22.6 eft cheek repeat GPRS 4TS 190/836.6 1:2.075 0.192 0.12 26.67 28.50 1.524 0.293 22.6 Back side <										(W/Kg)	
Left tilted	L oft chook	CDDS 4TS	100/926 6	1.2 075			24.61	25.50	1 227	0.072	22.6
Right cheek GPRS 4TS 190/836.6 1:2.075 0.423 0.18 24.61 25.50 1.227 0.519 22.6						0.03					
Right tilted											
Left cheek GPRS 4TS 128/824.2 1:2.075 0.775 0.09 24.59 25.50 1.233 0.956 22.6 Left cheek GPRS 4TS 251/848.8 1:2.075 0.809 0.19 24.55 25.50 1.245 1.007 22.6 Left cheek repeat GPRS 4TS 251/848.8 1:2.075 0.782 0.03 24.55 25.50 1.245 0.973 22.6 Body worn Test data(Separate 15mm) Front side GPRS 4TS 190/836.6 1:2.075 0.192 0.12 26.67 28.50 1.524 0.293 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.382 0.17 26.67 28.50 1.524 0.582 22.6 Hotspot Test data(Separate 10mm) Front side GPRS 4TS 190/836.6 1:2.075 0.411 0.19 24.15 25.00 1.216 0.500 22.6 Back side GPRS 4TS 190/836.6 1:2.075<											
Left cheek GPRS 4TS 251/848.8 1:2.075 0.809 0.19 24.55 25.50 1.245 1.007 22.6 eft cheek repeat GPRS 4TS 251/848.8 1:2.075 0.782 0.03 24.55 25.50 1.245 0.973 22.6 Body worn Test data(Separate 15mm) Front side GPRS 4TS 190/836.6 1:2.075 0.192 0.12 26.67 28.50 1.524 0.293 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.192 0.12 26.67 28.50 1.524 0.293 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.382 0.17 26.67 28.50 1.524 0.293 22.6 Hotspot Test data(Separate 10mm) Front side GPRS 4TS 190/836.6 1:2.075 0.411 0.19 24.15 25.00 1.216 0.500 22.6 Back side GPRS 4TS 190/836.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Select Cheek repeat GPRS 4TS 251/848.8 1:2.075 0.782 0.03 24.55 25.50 1.245 0.973 22.6											
Body worn Test data(Separate 15mm)											
Front side GPRS 4TS 190/836.6 1:2.075 0.192 0.12 26.67 28.50 1.524 0.293 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.382 0.17 26.67 28.50 1.524 0.582 22.6 Hotspot Test data(Separate 10mm) Front side GPRS 4TS 190/836.6 1:2.075 0.411 0.19 24.15 25.00 1.216 0.500 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.506 0.03 24.15 25.00 1.216 0.615 22.6 Left side GPRS 4TS 190/836.6 1:2.075 0.799 0.04 24.15 25.00 1.216 0.972 22.6 Left side GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Left side GPRS 4TS 190/836.6 1:2.075 0.768 0.07 24.05 25.00 1.245 <td< td=""><td>eft cheek repeat</td><td>GPRS 41S</td><td>251/848.8</td><td></td><td></td><td></td><td></td><td>25.50</td><td>1.245</td><td>0.973</td><td>22.6</td></td<>	eft cheek repeat	GPRS 41S	251/848.8					25.50	1.245	0.973	22.6
Back side GPRS 4TS 190/836.6 1:2.075 0.382 0.17 26.67 28.50 1.524 0.582 22.6 Hotspot Test data(Separate 10mm) Front side GPRS 4TS 190/836.6 1:2.075 0.411 0.19 24.15 25.00 1.216 0.500 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.506 0.03 24.15 25.00 1.216 0.615 22.6 Left side GPRS 4TS 190/836.6 1:2.075 0.799 0.04 24.15 25.00 1.216 0.972 22.6 Left side GPRS 4TS 128/824.2 1:2.075 0.860 0.01 24.12 25.00 1.225 1.053 22.6 Left side repeat GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Test position Test mode Test Multiple position Test mode Test mode			T								
Hotspot Test data(Separate 10mm)											
Front side GPRS 4TS 190/836.6 1:2.075 0.411 0.19 24.15 25.00 1.216 0.500 22.6 Back side GPRS 4TS 190/836.6 1:2.075 0.506 0.03 24.15 25.00 1.216 0.615 22.6 Left side GPRS 4TS 190/836.6 1:2.075 0.799 0.04 24.15 25.00 1.216 0.972 22.6 Left side GPRS 4TS 128/824.2 1:2.075 0.860 0.01 24.12 25.00 1.225 1.053 22.6 Left side repeat GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Left side GPRS 4TS 251/848.8 1:2.075 0.768 0.07 24.05 25.00 1.245 0.956 22.6 Test position Test mode Test mode Test mode Conducted (W/kg) Tune up (W/kg) Scaled SAR 10 (W/kg) Scale	Back side	GPRS 4TS	190/836.6				•	28.50	1.524	0.582	22.6
Back side GPRS 4TS 190/836.6 1:2.075 0.506 0.03 24.15 25.00 1.216 0.615 22.6 Left side GPRS 4TS 190/836.6 1:2.075 0.799 0.04 24.15 25.00 1.216 0.972 22.6 Left side GPRS 4TS 128/824.2 1:2.075 0.860 0.01 24.12 25.00 1.225 1.053 22.6 Left side repeat GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Left side GPRS 4TS 251/848.8 1:2.075 0.768 0.07 24.05 25.00 1.245 0.956 22.6 Test position Test mode Test mode Test mode Test mode SAR (W/kg) Conducted wer(dBm) Tune up Limit(dBm) Scaled SAR 10-g(W/kg) Liquid Temp.(*C Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67											
Left side GPRS 4TS 190/836.6 1:2.075 0.799 0.04 24.15 25.00 1.216 0.972 22.6 Left side GPRS 4TS 128/824.2 1:2.075 0.860 0.01 24.12 25.00 1.225 1.053 22.6 Left side repeat GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Left side GPRS 4TS 251/848.8 1:2.075 0.768 0.07 24.05 25.00 1.245 0.956 22.6 Product specific 10g SAR(Separate 0mm) Test position Test mode Test mode SAR (W/kg) Power (W/kg) Tune up Limit(dBm) Scaled SAR 10-g (W/kg) Liquid Temp. (*C Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67 28.50 1.524 1.027 22.6 Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Left side GPRS 4TS 128/824.2 1:2.075 0.860 0.01 24.12 25.00 1.225 1.053 22.6 Left side repeat GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Left side GPRS 4TS 251/848.8 1:2.075 0.768 0.07 24.05 25.00 1.245 0.956 22.6 Product specific 10g SAR(Separate 0mm) Test position Test mode Test Outy Cycle SAR (W/kg) (W/kg) 10-g Conducted Power(dBm) Limit(dBm) Tune up Limit(dBm) Scaled SAR 10-g (W/kg) Liquid Temp.(*C) Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67 28.50 1.524 1.027 22.6 Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 2.454 22.6 Left side GPRS 4TS 128/824.2 1:2.075											
Left side repeat GPRS 4TS 128/824.2 1:2.075 0.783 0.01 24.12 25.00 1.225 0.959 22.6 Left side GPRS 4TS 251/848.8 1:2.075 0.768 0.07 24.05 25.00 1.245 0.956 22.6 Test position Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 10-g Conducted Power(dBm) Tune up Limit(dBm) Scaled SAR 10-g (W/kg) Liquid Temp.(*C) Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67 28.50 1.524 1.027 22.6 Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 2.454 22.6 Left side GPRS 4TS 128/824.2 1:2.075 1.580 0.08 26.66 28.50 1.528 2.414 22.6											
Left side GPRS 4TS 251/848.8 1:2.075 0.768 0.07 24.05 25.00 1.245 0.956 22.6 Product specific 10g SAR(Separate 0mm) Test position Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 10-g Power drift (dB) Conducted Power(dBm) Tune up Limit(dBm) Scaled SAR 10-g (W/kg) Liquid Temp. (*Conducted (dB) Conducted Power(dBm) Scaled SAR 10-g (W/kg) SAR (W/kg) Conducted Power(dBm) Scaled SAR 10-g (W/kg) SCAICH (M/kg) SAR (W/kg) Conducted Power(dBm) SCAICH (M/kg) SAR (W/kg) SAR (W/kg) SCAICH (M/kg) SAR (W/kg) SAR (W/kg) SCAICH (M/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SAR (W/kg) SCAICH (M/kg) SAR (W/kg) SAR (W	Left side		128/824.2	1:2.075				25.00	1.225	1.053	
Test position Test mode Test ch./Freq. Duty cycle SAR (Wkg) 10-g Conducted (dB) Power (dBm) Duty (dB) Conducted (dB) Duty (dB) Conducted (dB) Duty (dB) Conducted (dB) Duty (dB) Dut	Left side repeat	GPRS 4TS	128/824.2	1:2.075	0.783	0.01	24.12	25.00	1.225	0.959	22.6
Test position Test mode Test mode ch./Freq. Duty Cycle SAR (W/kg) 10-g Power drift (dB) Conducted Power(dBm) Tune up Limit(dBm) Scaled factor SAR 10-g (W/kg) Liquid Temp. (*Conducted (dB) Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67 28.50 1.524 1.027 22.6 Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 2.454 22.6 Left side GPRS 4TS 128/824.2 1:2.075 1.580 0.08 26.66 28.50 1.528 2.414 22.6	Left side	GPRS 4TS	251/848.8	1:2.075	0.768	0.07	24.05	25.00	1.245	0.956	22.6
Test position Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 10-g Power drift (dB) Conducted Power(dBm) Tune up Limit(dBm) Scaled factor SAR 10-g (W/kg) Liquid Temp.(*C) Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67 28.50 1.524 1.027 22.6 Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 2.454 22.6 Left side GPRS 4TS 128/824.2 1:2.075 1.580 0.08 26.66 28.50 1.528 2.414 22.6			Р	roduct sp	ecific 10g S	AR(Separa	te 0mm)				
Back side GPRS 4TS 190/836.6 1:2.075 0.674 0.01 26.67 28.50 1.524 1.027 22.6 Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 2.454 22.6 Left side GPRS 4TS 128/824.2 1:2.075 1.580 0.08 26.66 28.50 1.528 2.414 22.6	Test position	Test mode	Test	Duty	SAR (W/kg)	Power drift	Conducted Power(dBm)			SAR 10- g	Liquid Temp.(℃)
Left side GPRS 4TS 190/836.6 1:2.075 1.610 0.18 26.67 28.50 1.524 2.454 22.6 Left side GPRS 4TS 128/824.2 1:2.075 1.580 0.08 26.66 28.50 1.528 2.414 22.6	Back side	GPRS 4TS	190/836.6	1:2.075	0.674	0.01	26.67	28.50	1.524		22.6
Left side GPRS 4TS 128/824.2 1:2.075 1.580 0.08 26.66 28.50 1.528 2.414 22.6		GPRS 4TS									
	Left side	GPRS 4TS	251/848.8	1:2.075	1.630	0.20	26.61	28.50	1.545	2.519	22.6

Table 11: SAR of GSM850 for Head and Body



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Test Position	Channel/ Frequency	Measured SAR	1st Repeated	Datia	2 nd Repeated	3 rd Repeated
rest Position	(MHz)	(1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)
Left cheek	251/848.8	0.809	0.782	1.035	N/A	N/A
Left side	128/824.2	0.860	0.783	1.098	N/A	N/A



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Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.2 SAR Result of GSM1900

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.040	-0.09	23.08	25.00	1.556	0.061	22.5
Left tilted	GPRS 4TS	661/1880	1:2.075	0.024	0.12	23.08	25.00	1.556	0.038	22.5
Right cheek	GPRS 4TS	661/1880	1:2.075	0.034	0.09	23.08	25.00	1.556	0.053	22.5
Right tilted	GPRS 4TS	661/1880	1:2.075	0.023	0.02	23.08	25.00	1.556	0.035	22.5
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.166	0.07	23.08	25.00	1.556	0.258	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.197	0.03	23.08	25.00	1.556	0.307	22.5
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.250	0.07	23.08	25.00	1.556	0.389	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.217	0.07	23.08	25.00	1.556	0.338	22.5
Left side	GPRS 4TS	661/1880	1:2.075	0.077	0.01	23.08	25.00	1.556	0.119	22.5
Bottom side	GPRS 4TS	661/1880	1:2.075	0.353	0.10	23.08	25.00	1.556	0.549	22.5
Ant 5 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g		Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.409	0.17	21.24	23.20	1.570	0.642	22.5
Left tilted	GPRS 4TS	661/1880	1:2.075	0.563	0.14	21.24	23.20	1.570	0.884	22.5
Left tilted		512/1850.2	1:2.075	0.550	0.03	21.22	23.20	1.578	0.868	22.5
Left tilted	GPRS 4TS	810/1909.8	1:2.075	0.582	0.14	21.21	23.20	1.581	0.920	22.5
Right cheek	GPRS 4TS	661/1880	1:2.075	0.337	0.08	21.24	23.20	1.570	0.529	22.5
Right tilted	GPRS 4TS	661/1880	1:2.075	0.643	0.11	21.24	23.20	1.570	1.010	22.5
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.581	0.07	21.22	23.20	1.578	0.917	22.5
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.677	-0.01	21.21	23.20	1.581	1.071	22.5
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.093	0.02	22.31	24.20	1.545	0.144	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.122	0.07	22.31	24.20	1.545	0.189	22.5
Hotspot Test data(Separate 10mm)										
		004/4000	1:2.075	0.178	0.07	21.24	23.20	1.570	0.280	22.5
Front side	GPRS 4TS	661/1880	1.2.075	0.170	0.0.					
Front side Back side	GPRS 4TS GPRS 4TS	661/1880	1:2.075	0.269	0.09	21.24	23.20	1.570	0.422	22.5
							23.20 23.20	1.570 1.570		22.5 22.5 22.5

Table 12: SAR of GSM1900 for Head and Body.



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8.2.3 SAR Result of WCDMA Band II

				Ant 2 Test	Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	, ,	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Tes						
Left cheek	RMC	9400/1880	1:1	0.124	-0.02	24.47	25.00	1.130	0.140	22.5
Left tilted	RMC	9400/1880	1:1	0.084	0.05	24.47	25.00	1.130	0.094	22.5
Right cheek	RMC	9400/1880	1:1	0.104	0.09	24.47	25.00	1.130	0.117	22.5
Right tilted	RMC	9400/1880	1:1	0.056	0.04	24.47	25.00	1.130	0.063	22.5
			Body wor		(Separate 15					
Front side	RMC	9400/1880	1:1	0.421	0.01	24.47	25.00	1.130	0.476	22.5
Back side	RMC	9400/1880	1:1	0.495	0.15	24.47	25.00	1.130	0.559	22.5
					Separate 10m					
Front side	RMC	9400/1880	1:1	0.466	0.20	22.24	23.00	1.191	0.555	22.5
Back side	RMC	9400/1880	1:1	0.593	0.10	22.24	23.00	1.191	0.706	22.5
Left side	RMC	9400/1880	1:1	0.156	0.15	22.24	23.00	1.191	0.186	22.5
Bottom side	RMC	9400/1880	1:1	0.693	0.10	22.24	23.00	1.191	0.826	22.5
Bottom side		9262/1852.4	1:1	0.606	0.06	22.12	23.00	1.225	0.742	22.5
Bottom side		9538/1907.6	1:1	0.809	0.10	22.10	23.00	1.230	0.995	22.5
Bottom side repeat	RMC	9538/1907.6	1:1	0.784	0.03	22.10	23.00	1.230	0.965	22.5
				Ant 5 Test	Record					
									Scaled	
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 10- g (W/kg)	Liquid Temp.(℃)
Test position	Test mode			(W/kg) 1-g	(dB)		Tune up Limit(dBm)	Scaled factor	SAR 10- g	
Test position Left cheek	Test mode			(W/kg)	(dB)		Tune up Limit(dBm)	Scaled factor	SAR 10- g	
•		ch./Freq.	Cycle	(W/kg) 1-g Head Tes	(dB) st Data	Power(dBm)	Limit(dBm)	factor	SAR 10- g (W/kg)	Temp.(℃)
Left cheek	RMC	ch./Freq. 9400/1880	Cycle 1:1	(W/kg) 1-g Head Tes 0.474 0.489	(dB) st Data -0.12 0.04	Power(dBm)	20.00 20.00	factor 1.202	SAR 10- g (W/kg)	Temp.(℃) 22.5
Left cheek Left tilted	RMC RMC	9400/1880 9400/1880 9400/1880	1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904	(dB) st Data -0.12	19.20 19.20 19.20	20.00 20.00 20.00 20.00	1.202 1.202 1.202	SAR 10- g (W/kg) 0.570 0.588	22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat	RMC RMC RMC	9400/1880 9400/1880	1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489	(dB) et Data -0.12 0.04 0.09	19.20 19.20	20.00 20.00	1.202 1.202	SAR 10- g (W/kg) 0.570 0.588 1.087	22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek	RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839	(dB) et Data -0.12 0.04 0.09 0.19	19.20 19.20 19.20 19.20	20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202	SAR 10- g (W/kg) 0.570 0.588 1.087 1.009	22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek	RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4	1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855	(dB) st Data -0.12 0.04 0.09 0.19 0.01	19.20 19.20 19.20 19.20 19.20 19.17 19.17	20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.211	0.570 0.588 1.087 1.009	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right cheek Right tilted	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6	1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900	(dB) st Data -0.12 0.04 0.09 0.19 0.01 0.05	19.20 19.20 19.20 19.20 19.20 19.17	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.211 1.211	0.570 0.588 1.087 1.009 1.035	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699	(dB) st Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08	19.20 19.20 19.20 19.20 19.20 19.17 19.17	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.211 1.211 1.202	0.570 0.588 1.087 1.009 1.035 1.090 0.840	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right theek Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9262/1852.4 9538/1907.6	1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704	(dB) et Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08 0.09 0.04	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.17	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211	0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right theek Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9262/1852.4 9538/1907.6	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704	(dB) st Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08 0.09	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.20 19.17	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211	0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9262/1852.4 9538/1907.6	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704 n Test data	(dB) st Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08 0.09 0.04 (Separate 15)	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.17 19.17 mm)	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211 1.211	SAR 10- g (W/kg) 0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809 0.852	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right tilted Right tilted Right tilted Right tilted Front side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704 n Test data 0.259 0.362	(dB) et Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08 0.09 0.04 (Separate 15) 0.01	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.17 19.17 mm) 23.55 23.55	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211 1.211	0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809 0.852	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right tilted Right tilted Right tilted Right tilted Front side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704 n Test data 0.259 0.362	(dB) st Data -0.12 0.04 0.09 0.19 0.05 0.08 0.09 0.04 (Separate 15 0.01 0.05	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.17 19.17 mm) 23.55 23.55	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211 1.211	0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809 0.852	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right tilted Right tilted Right tilted Front side Back side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704 n Test data 0.259 0.362 Test data(\$	(dB) st Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08 0.09 0.04 ((Separate 15 0.01 0.05 Separate 10m	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.17 19.17 mm) 23.55	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211 1.211 1.211 1.245	0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809 0.852 0.322 0.451	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right cheek repeat Right cheek Right cheek Right tilted Right tilted Right tilted Right tilted Front side Back side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Tes 0.474 0.489 0.904 0.839 0.855 0.900 0.699 0.668 0.704 n Test data 0.259 0.362 Test data(\$0.162	(dB) st Data -0.12 0.04 0.09 0.19 0.01 0.05 0.08 0.09 0.04 ((Separate 15 0.01 0.05 Separate 10m 0.15	19.20 19.20 19.20 19.20 19.17 19.17 19.17 19.17 19.17 mm) 23.55 23.55	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 24.50 24.50	1.202 1.202 1.202 1.202 1.211 1.211 1.202 1.211 1.211 1.245 1.245	0.570 0.588 1.087 1.009 1.035 1.090 0.840 0.809 0.852 0.322 0.451	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5

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

Test Position	Channel/ Frequency		1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)	
Bottom side	9538/1907.6	0.809	0.784	1.032	N/A	N/A	
Right cheek	9400/1880	0.904	0.839	1.077	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.4 SAR Result of WCDMA Band IV

				Ant 2 Te	st Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				Head T	est Data					
Left cheek	RMC	1412/1732.4	1:1	0.152	0.18	24.37	25.00	1.156	0.176	22.5
Left tilted	RMC	1412/1732.4	1:1	0.069	0.01	24.37	25.00	1.156	0.080	22.5
Right cheek	RMC	1412/1732.4	1:1	0.078	0.01	24.37	25.00	1.156	0.091	22.5
Right tilted	RMC	1412/1732.4	1:1	0.078	0.07	24.37	25.00	1.156	0.091	22.5
			Body	worn Test da	ta(Separate 1	5mm)				
Front side	RMC	1412/1732.4	1:1	0.321	0.01	24.37	25.00	1.156	0.371	22.5
Back side	RMC	1412/1732.4	1:1	0.429	0.05	24.37	25.00	1.156	0.496	22.5
			Ho	tspot Test data	a(Separate 10	mm)				
Front side	RMC	1412/1732.4	1:1	0.522	0.17	23.39	24.00	1.151	0.601	22.5
Back side	RMC	1412/1732.4	1:1	0.718	0.15	23.39	24.00	1.151	0.826	22.5
Back side	RMC	1312/1712.4	1:1	0.668	0.10	23.26	24.00	1.186	0.792	22.5
Back side	RMC	1513/1752.6	1:1	0.738	0.00	23.27	24.00	1.183	0.873	22.5
Left side	RMC	1412/1732.4	1:1	0.176	0.16	23.39	24.00	1.151	0.203	22.5
Bottom side	RMC	1412/1732.4	1:1	0.737	0.16	23.39	24.00	1.151	0.848	22.5
Bottom side	RMC	1312/1712.4	1:1	0.739	0.07	23.26	24.00	1.186	0.876	22.5
Bottom side	RMC	1513/1752.6	1:1	0.802	0.08	23.27	24.00	1.183	0.949	22.5
Bottom side Repeat		1513/1752.6	1:1	0.792	0.01	23.27	24.00	1.183	0.937	22.5
					st Record				01007	
									Scaled	
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1- g (W/kg)	Liquid Temp.(℃)
Left cheek	RMC	1412/1732.4	1:1	0.392	0.10	18.01	19.50	1.409	0.552	22.5
Left tilted	RMC	1412/1732.4	1:1	0.418	0.01	18.01	19.50	1.409	0.589	22.5
Right cheek	RMC	1412/1732.4	1:1	0.713	0.10	18.01	19.50	1.409	1.005	22.5
Right cheek	RMC	1312/1712.4	1:1	0.593	0.03	17.95	19.50	1.429	0.847	22.5
Right cheek	RMC	1513/1752.6	1:1	0.758	0.05	17.94	19.50	1.432	1.086	22.5
Right tilted	RMC	1412/1732.4	1:1	0.720	0.00	18.01	19.50	1.409	1.015	22.5
Right tilted	RMC	1312/1712.4	1:1	0.626	0.00	17.95	19.50	1.429	0.894	22.5
Right tilted	RMC	1513/1752.6	1:1	0.736	0.09	17.93	19.50	1.432	1.054	22.5
right tilted	HIVIC	1313/1732.0		/ worn Test da			19.50	1.432	1.034	22.5
Front side	RMC	1412/1732.4	1:1	0.275	0.01	23.69	25.00	1.352	0.372	22.5
Back side	RMC	1412/1732.4	1:1	0.273	0.01	23.69	25.00	1.352	0.564	22.5
Dack Side	TUVIC	1712/1/32.4		tspot Test data			25.00	1.002	0.504	22.0
Front side	RMC	1412/1732.4	1:1	0.134	0.19	18.01	19.50	1.409	0.189	22.5
Back side	RMC	1412/1732.4	1:1	0.134	-0.12	18.01	19.50	1.409	0.189	22.5
Left side	RMC	1412/1732.4	1:1	0.256	_	18.01	19.50	1.409		22.5
					0.06				0.114	
Top side	RMC	1412/1732.4	1:1	0.309	0.02	18.01	19.50	1.409	0.435	22.5

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	1513/1752.6	0.802	0.792	1.013	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.2.5 SAR Result of WCDMA Band V

				Ant 0 Test R	ecord					
Test position	Test mode	Test ch./Freq.	Duty Cycle		(ub)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Test	Data					
Left cheek	RMC	4182/836.4	1:1	0.174	0.16	24.17	25.00	1.211	0.211	22.6
Left tilted	RMC	4182/836.4	1:1	0.078	0.16	24.17	25.00	1.211	0.094	22.6
Right cheek	RMC	4182/836.4	1:1	0.176	-0.03	24.17	25.00	1.211	0.213	22.6
Right tilted	RMC	4182/836.4	1:1	0.087	-0.07	24.17	25.00	1.211	0.105	22.6
			Body wor	n Test data(S	Separate 1	5mm)				
Front side	RMC	4182/836.4	1:1	0.205	0.06	24.17	25.00	1.211	0.248	22.6
Back side	RMC	4182/836.4	1:1	0.271	-0.09	24.17	25.00	1.211	0.328	22.6
			Hotspot	Test data(Se	parate 10	mm)				
Front side	RMC	4182/836.4	1:1	0.351	0.07	24.17	25.00	1.211	0.425	22.6
Back side	RMC	4182/836.4	1:1	0.457	-0.05	24.17	25.00	1.211	0.553	22.6
Right side	RMC	4182/836.4	1:1	0.195	0.02	24.17	25.00	1.211	0.236	22.6
Bottom side	RMC	4182/836.4	1:1	0.176	0.00	24.17	25.00	1.211	0.213	22.6
				Ant 1 Test R	ecord					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-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	RMC	4182/836.4	1:1	0.495		04.00				
				0.733	0.20	21.28	22.70	1.387	0.686	22.6
Left tilted	RMC	4182/836.4	1:1	0.433	0.20	21.28	22.70 22.70	1.387 1.387	0.686 0.100	22.6 22.6
Left tilted Right cheek	RMC RMC	4182/836.4 4182/836.4	1:1 1:1							
	_			0.072	0.04	21.28	22.70	1.387	0.100	22.6
Right cheek	RMC	4182/836.4	1:1	0.072 0.303 0.054	0.04 -0.10 0.03	21.28 21.28 21.28	22.70 22.70	1.387 1.387	0.100 0.420	22.6 22.6
Right cheek	RMC	4182/836.4	1:1 1:1	0.072 0.303 0.054	0.04 -0.10 0.03	21.28 21.28 21.28	22.70 22.70	1.387 1.387	0.100 0.420	22.6 22.6
Right cheek Right tilted	RMC RMC	4182/836.4 4182/836.4	1:1 1:1 Body wor	0.072 0.303 0.054 n Test data(S	0.04 -0.10 0.03 Separate 1	21.28 21.28 21.28 5mm)	22.70 22.70 22.70	1.387 1.387 1.387	0.100 0.420 0.075	22.6 22.6 22.6
Right cheek Right tilted Front side	RMC RMC	4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body wor 1:1 1:1	0.072 0.303 0.054 n Test data(\$ 0.175	0.04 -0.10 0.03 Separate 1 0.19 -0.10	21.28 21.28 21.28 5mm) 21.28 21.28	22.70 22.70 22.70 22.70	1.387 1.387 1.387	0.100 0.420 0.075	22.6 22.6 22.6 22.6
Right cheek Right tilted Front side	RMC RMC	4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body wor 1:1 1:1	0.072 0.303 0.054 n Test data(\$ 0.175 0.302	0.04 -0.10 0.03 Separate 1 0.19 -0.10	21.28 21.28 21.28 5mm) 21.28 21.28	22.70 22.70 22.70 22.70	1.387 1.387 1.387	0.100 0.420 0.075	22.6 22.6 22.6 22.6
Right cheek Right tilted Front side Back side	RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body wor 1:1 1:1 Hotspot	0.072 0.303 0.054 n Test data(S 0.175 0.302 Test data(Se	0.04 -0.10 0.03 Separate 1 0.19 -0.10 eparate 10	21.28 21.28 21.28 5mm) 21.28 21.28 mm)	22.70 22.70 22.70 22.70 22.70	1.387 1.387 1.387 1.387 1.387	0.100 0.420 0.075 0.243 0.419	22.6 22.6 22.6 22.6 22.6
Right cheek Right tilted Front side Back side Front side Back side	RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body wor 1:1 1:1 Hotspot 1:1	0.072 0.303 0.054 n Test data(S 0.175 0.302 Test data(Se 0.283	0.04 -0.10 0.03 Separate 1 0.19 -0.10 eparate 10 0.16	21.28 21.28 21.28 5mm) 21.28 21.28 mm) 21.28	22.70 22.70 22.70 22.70 22.70 22.70	1.387 1.387 1.387 1.387 1.387	0.100 0.420 0.075 0.243 0.419	22.6 22.6 22.6 22.6 22.6 22.6
Right cheek Right tilted Front side Back side Front side	RMC RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 Body wor 1:1 1:1 Hotspot 1:1	0.072 0.303 0.054 n Test data(S 0.175 0.302 Test data(Se 0.283 0.395	0.04 -0.10 0.03 Separate 1 0.19 -0.10 eparate 10 0.16 0.05	21.28 21.28 21.28 5mm) 21.28 21.28 mm) 21.28 21.28	22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.387 1.387 1.387 1.387 1.387 1.387	0.100 0.420 0.075 0.243 0.419 0.392 0.548	22.6 22.6 22.6 22.6 22.6 22.6 22.6

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



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8.2.6 SAR Result of LTE Band 2

	_				Ant 2 Test						
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Test [•				
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.160	0.19	25.06	25.70	1.159	0.185	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.087	-0.14	25.06	25.70	1.159	0.101	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.116	-0.09	25.06	25.70	1.159	0.134	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1 H	0.077 ead Test Da	0.18 eta(50%BI	25.06 B)	25.70	1.159	0.089	22.3
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.133	-0.01	23.91	24.70	1.199	0.160	22.3
Left tilted		QPSK 50 0		1:1	0.072	-0.04	23.91	24.70	1.199	0.086	22.3
Right cheek		QPSK 50_0		1:1	0.102	-0.20	23.91	24.70	1.199	0.122	22.3
Right tilted	20	QPSK 50_0		1:1	0.058	-0.17	23.91	24.70	1.199	0.070	22.3
<u> </u>					Test data(S						
Front side	20	QPSK 1 0	18900/1880	1:1	0.412	0.09	25.06	25.70	1.159	0.477	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.604	0.02	25.06	25.70	1.159	0.700	22.3
		_		y worn T	est data(Se	parate 15	mm 50%RB)			•	•
Front side		QPSK 50_0	18900/1880	1:1	0.364	0.03	23.91	24.70	1.199	0.437	22.3
Back side		QPSK 50_0		1:1	0.481	0.18	23.91	24.70	1.199	0.577	22.3
				lotspot T	est data(Se	parate 10	mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.386	0.09	22.06	22.70	1.159	0.447	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.499	0.03	22.06	22.70	1.159	0.578	22.3
Left side	20	QPSK 1_0	18900/1880	1:1	0.157	-0.02	22.06	22.70	1.159	0.182	22.3
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.531	0.19	22.06	22.70	1.159	0.615	22.3
			Но	tspot Tes	st data(Sep	arate 10m	ım 50%RB)			•	•
Front side	20	QPSK 50_0	18900/1880	1:1	0.384	0.05	21.28	22.70	1.387	0.533	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.457	0.15	21.28	22.70	1.387	0.634	22.3
Left side	20	QPSK 50_0	18900/1880	1:1	0.168	0.05	21.28	22.70	1.387	0.233	22.3
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.563	0.00	21.28	22.70	1.387	0.781	22.3
					Ant 3 Test	Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
					1-g	(dB)				(W/kg)	
Left cheek											
	20	OPSK 1 0	18000/1880	1.1		Data(1RB)	10.53	10.70	1.040	0.224	22.3
L oft tiltad	20	QPSK 1_0	18900/1880	1:1	0.215	0.18	19.53	19.70	1.040	0.224	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.215 0.105	0.18 0.17	19.53	19.70	1.040	0.109	22.3
Right cheek	20 20	QPSK 1_0 QPSK 1_0	18900/1880 18900/1880	1:1 1:1	0.215 0.105 0.829	0.18 0.17 0.14	19.53 19.53	19.70 19.70	1.040 1.040	0.109 0.862	22.3 22.3
Right cheek Right cheek	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860	1:1 1:1 1:1	0.215 0.105 0.829 0.940	0.18 0.17 0.14 0.01	19.53 19.53 19.16	19.70 19.70 19.70	1.040 1.040 1.132	0.109 0.862 1.064	22.3 22.3 22.3
Right cheek Right cheek Right cheek	20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860 19100/1900	1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921	0.18 0.17 0.14 0.01 0.03	19.53 19.53 19.16 19.41	19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069	0.109 0.862 1.064 0.985	22.3 22.3 22.3 22.3
Right cheek Right cheek	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860	1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357	0.18 0.17 0.14 0.01 0.03 0.12	19.53 19.53 19.16 19.41 19.53	19.70 19.70 19.70	1.040 1.040 1.132	0.109 0.862 1.064	22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880	1:1 1:1 1:1 1:1 1:1 He	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI	19.53 19.53 19.16 19.41 19.53	19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040	0.109 0.862 1.064 0.985 0.371	22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880	1:1 1:1 1:1 1:1 1:1 He	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18	19.53 19.53 19.16 19.41 19.53 B)	19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040	0.109 0.862 1.064 0.985 0.371	22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 He 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02	19.53 19.53 19.16 19.41 19.53 B) 19.36 19.36	19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081	0.109 0.862 1.064 0.985 0.371 0.247 0.119	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20	QPSK 1 0 QPSK 1 0 QPSK 1 0 QPSK 1 0 QPSK 1 0 QPSK 50 0 QPSK 50 0 QPSK 50 0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 He 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02 0.16	19.53 19.53 19.16 19.41 19.53 B) 19.36 19.36	19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860	1:1 1:1 1:1 1:1 1:1 1:1 He 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02 0.16 0.03	19.53 19.53 19.16 19.41 19.53 B) 19.36 19.36 19.36 19.29	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900	1:1 1:1 1:1 1:1 1:1 He 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02 0.16 0.03 -0.03	19.53 19.53 19.16 19.41 19.53 8) 19.36 19.36 19.36 19.29 19.23	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10	19.53 19.53 19.16 19.41 19.53 8) 19.36 19.36 19.36 19.29 19.23 19.36	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%RI	19.53 19.53 19.16 19.41 19.53 8) 19.36 19.36 19.36 19.29 19.23 19.36 B)	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.099 1.114 1.081	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right tilted Right tilted	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384	0.18 0.17 0.14 0.01 0.03 0.12 ata(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10	19.53 19.53 19.16 19.41 19.53 8) 19.36 19.36 19.36 19.29 19.23 19.36	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right tilted Right tilted	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040	0.18 0.17 0.14 0.01 0.03 0.12 tata(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%RI 0.13 0.04	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.36 19.36 19.29 19.23 19.36 B)	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114 1.081	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right tilted Right cheek Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967	0.18 0.17 0.14 0.01 0.03 0.12 tata(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%RI 0.13 0.04 Geparate 1	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.36 19.36 19.29 19.23 19.36 B)	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114 1.081 1.045 1.042	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967 Test data(S	0.18 0.17 0.14 0.01 0.03 0.12 tata(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%RI 0.13 0.04	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.36 19.29 19.23 19.36 B) 19.51 19.51 19.52	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.081 1.081 1.081 1.045 1.045	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087 1.008	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967 Test data(\$ 0.347 0.564	0.18 0.17 0.14 0.01 0.03 0.12 ta(50%Ri 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%Ri 0.13 0.04 Separate 1 0.17 -0.05	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.29 19.23 19.36 B) 19.51 19.52 5mm 1RB) 25.18	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114 1.081 1.045 1.042	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 100_0 QPSK 100_0 QPSK 100_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 Boodlesson	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967 Test data(\$6 0.347 0.564 est data(\$6	0.18 0.17 0.14 0.01 0.03 0.12 ta(50%Ri 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%Ri 0.13 0.04 Separate 1 0.17 -0.05 parate 15	19.53 19.53 19.16 19.41 19.53 8) 19.36 19.36 19.36 19.29 19.23 19.36 B) 19.51 19.52 5mm 1RB) 25.18 25.18 mm 50%RB)	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.099 1.114 1.081 1.045 1.042	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087 1.008	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 100_0 QPSK 100_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880 Boot 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967 Test data(\$6 0.347 0.564 est data(\$6 0.296	0.18 0.17 0.14 0.01 0.03 0.12 ta(50%RI 0.18 0.02 0.16 0.03 -0.03 0.10 ta(100%RI 0.13 0.04 Separate 1 0.17 -0.05 parate 15 0.18	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.36 19.36 19.29 19.23 19.36 B) 19.51 19.52 5mm 1RB) 25.18 25.18 mm 50%RB) 24.18	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 24.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114 1.081 1.045 1.042 1.127	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087 1.008 0.391 0.636	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 100_0 QPSK 100_0 QPSK 1_0 QPSK 1_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18900/1880 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967 Test data(Se 0.296 0.484	0.18 0.17 0.14 0.01 0.03 0.12 ta(50%RI 0.18 0.02 0.16 0.03 -0.03 -0.03 -0.03 0.10 ta(100%RI 0.13 0.04 Separate 1 0.17 -0.05 parate 15 0.18	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.36 19.36 19.29 19.23 19.36 B) 19.51 19.52 5mm 1RB) 25.18 25.18 mm 50%RB) 24.18	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.099 1.114 1.081 1.045 1.042	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087 1.008	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right cheek Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right illted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 100_0 QPSK 100_0 QPSK 100_0 QPSK 1_0 QPSK 1_0 QPSK 5_0_0	18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 18900/1880 18700/1860 19100/1900 18900/1880 18900/1880 Bot 18900/1880 18900/1880 18900/1880 18900/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.215 0.105 0.829 0.940 0.921 0.357 ead Test Da 0.228 0.110 1.010 0.986 0.949 0.384 ad Test Da 1.040 0.967 Test data(\$6 0.347 0.564 est data(\$6 0.296	0.18 0.17 0.14 0.01 0.03 0.12 ta(50%RI 0.18 0.02 0.16 0.03 -0.03 -0.03 -0.03 0.10 ta(100%RI 0.13 0.04 Separate 1 0.17 -0.05 parate 15 0.18	19.53 19.53 19.16 19.41 19.53 3) 19.36 19.36 19.36 19.36 19.29 19.23 19.36 B) 19.51 19.52 5mm 1RB) 25.18 25.18 mm 50%RB) 24.18	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 24.70	1.040 1.040 1.132 1.069 1.040 1.081 1.081 1.081 1.099 1.114 1.081 1.045 1.042 1.127	0.109 0.862 1.064 0.985 0.371 0.247 0.119 1.092 1.084 1.057 0.415 1.087 1.008 0.391 0.636	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3



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Left side	20	QPSK 1_0	18900/1880	1:1	0.389	0.13	19.53	19.70	1.040	0.405	22.3	
Hotspot Test data(Separate 10mm 50%RB)												
Front side	20	QPSK 50_0	18900/1880	1:1	0.158	0.03	19.36	19.70	1.081	0.171	22.3	
Back side	20	QPSK 50_0	18900/1880	1:1	0.319	0.05	19.36	19.70	1.081	0.345	22.3	
Left side	20	QPSK 50_0	18900/1880	1:1	0.428	0.18	19.36	19.70	1.081	0.463	22.3	

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

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	18900/1880	1.04	0.967	1.075	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.1 SAR Result of LTE Band 4

			An	t 0 Tes	t Record						
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Data(1RE						
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.071	0.01	23.38	24.50	1.294	0.094	22.6
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.038	0.03	23.38	24.50	1.294	0.049	22.6
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.057	0.09	23.38	24.50	1.294	0.074	22.6
Right tilted	20	QPSK 1_0	20175/1732.5 Head	1:1 Test Da	0.061 ata(50%F	0.02 RB)	23.38	24.50	1.294	0.078	22.6
Left cheek	20	QPSK 50 0	20175/1732.5	1:1	0.057	0.04	22.26	23.50	1.330	0.075	22.6
Left tilted	20		20175/1732.5	1:1	0.032	0.08	22.26	23.50	1.330	0.042	22.6
Right cheek	20		20175/1732.5	1:1	0.064	0.00	22.26	23.50	1.330	0.085	22.6
Right tilted	20		20175/1732.5	1:1	0.048	0.04	22.26	23.50	1.330	0.064	22.6
		_	Body worn Tes	st data(S	Separate	15mm 1	IRB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.225	0.08	23.38	24.50	1.294	0.291	22.6
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.267	0.08	23.38	24.50	1.294	0.373	22.6
		E	Body worn Test	data(Se	eparate 1	5mm 50	%RB)				
Front side	20		20175/1732.5	1:1	0.181	0.07	22.26	23.50	1.330	0.241	22.6
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.230	0.01	22.26	23.50	1.330	0.306	22.6
			Hotspot Test	data(Se	eparate 1	0mm 1F	RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.430	0.17	23.38	24.50	1.294	0.557	22.6
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.617	0.02	23.38	24.50	1.294	0.799	22.6
Back side with Inter-band CA	20	QPSK 1_0	20175/1732.5	1:1	0.617	0.02	23.38	21.50	0.649	0.400	22.6
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.315	0.05	23.38	24.50	1.294	0.408	22.6
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.336	0.11	23.38	24.50	1.294	0.435	22.6
			Hotspot Test d	ata(Sep							
Front side	20		20175/1732.5	1:1	0.350	0.05	22.26	23.50	1.330	0.466	22.6
Back side	20		20175/1732.5	1:1	0.522	0.02	22.26	23.50	1.330	0.694	22.6
Right side	20		20175/1732.5	1:1	0.246	0.08	22.26	23.50	1.330	0.327	22.6
Bottom side	20	QPSK 50_0	20175/1732.5	1:1	0.272	0.12	22.26	23.50	1.330	0.362	22.6
			An	t 2 Tes	t Record	1					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				d Test I	Data(1RE	3)					
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.228	-0.09	25.27	25.50	1.054	0.240	22.6
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.098	0.20	25.27	25.50	1.054	0.103	22.6
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.131	0.04	25.27	25.50	1.054	0.138	22.6
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.100	0.08	25.27	25.50	1.054	0.105	22.6
	1	0001/50	Head		ata(50%F		1				
Left cheek	20		20175/1732.5	1:1	0.126	0.09	23.94	24.50	1.138	0.143	22.6
Left tilted	20	QPSK 50 0							11178	0.114	22.6
Right cheek			20175/1732.5	1:1	0.100	0.03	23.94	24.50			
	20	QPSK 50_0	20175/1732.5	1:1	0.108	0.09	23.94	24.50	1.138	0.123	22.6
Right tilted	20 20	QPSK 50_0	20175/1732.5 20175/1732.5	1:1 1:1	0.108 0.081	0.09	23.94 23.94				
Right tilted	20	QPSK 50_0 QPSK 50_0	20175/1732.5 20175/1732.5 Body worn Tes	1:1 1:1 st data(S	0.108 0.081 Separate	0.09 0.06 15mm 1	23.94 23.94 IRB)	24.50 24.50	1.138 1.138	0.123 0.092	22.6 22.6
Right tilted Front side	20	QPSK 50_0 QPSK 50_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Tes 20175/1732.5	1:1 1:1 st data(\$ 1:1	0.108 0.081 Separate 0.331	0.09 0.06 15mm 1 0.11	23.94 23.94 IRB) 25.42	24.50 24.50 25.50	1.138 1.138 1.019	0.123 0.092 0.337	22.6 22.6 22.6
Right tilted	20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Tes 20175/1732.5 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1	0.108 0.081 Separate 0.331 0.539	0.09 0.06 15mm 1 0.11 0.17	23.94 23.94 RB) 25.42 25.42	24.50 24.50	1.138 1.138	0.123 0.092	22.6 22.6
Right tilted Front side Back side	20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test	1:1 1:1 st data(\$ 1:1 1:1 data(\$e	0.108 0.081 Separate 0.331 0.539 eparate 1	0.09 0.06 15mm 1 0.11 0.17 5mm 50	23.94 23.94 IRB) 25.42 25.42 %RB)	24.50 24.50 25.50 25.50	1.138 1.138 1.019 1.019	0.123 0.092 0.337 0.549	22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side	20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1 data(\$e 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06	23.94 23.94 IRB) 25.42 25.42 %RB) 23.94	24.50 24.50 25.50 25.50 24.50	1.138 1.138 1.019 1.019 1.138	0.123 0.092 0.337 0.549	22.6 22.6 22.6 22.6 22.6
Right tilted Front side Back side	20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1 data(\$e 1:1 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07	23.94 23.94 RB) 25.42 25.42 %RB) 23.94 23.94	24.50 24.50 25.50 25.50	1.138 1.138 1.019 1.019	0.123 0.092 0.337 0.549	22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side Back side	20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0 QPSK 50_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test	1:1 1:1 st data(\$ 1:1 1:1 data(\$e 1:1 1:1 data(\$e	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07	23.94 23.94 1RB) 25.42 25.42 2%RB) 23.94 23.94	24.50 24.50 25.50 25.50 24.50 24.50	1.138 1.138 1.019 1.019 1.138 1.138	0.123 0.092 0.337 0.549 0.403 0.495	22.6 22.6 22.6 22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side Back side Front side Front side	20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0 QPSK 50_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1 data(\$6 1:1 1:1 data(\$6	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05	23.94 23.94 RB) 25.42 25.42 %RB) 23.94 23.94 RB) 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50	1.138 1.138 1.019 1.019 1.138 1.138	0.123 0.092 0.337 0.549 0.403 0.495	22.6 22.6 22.6 22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side Back side Front side Back side Back side	20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1 data(\$e 1:1 data(\$e 1:1 data(\$e 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427 0.635	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05 -0.20	23.94 23.94 RB) 25.42 25.42 %RB) 23.94 23.94 RB) 23.16 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50 23.50	1.138 1.138 1.019 1.019 1.138 1.138 1.081 1.081	0.123 0.092 0.337 0.549 0.403 0.495 0.462 0.687	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Front side Back side Front side Back side Front side Left side	20 20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1 data(\$e 1:1 data(\$e 1:1 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427 0.635 0.071	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05 -0.20 0.02	23.94 23.94 RB) 25.42 25.42 9%RB) 23.94 23.94 8B) 23.16 23.16 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50 23.50 23.50	1.138 1.019 1.019 1.138 1.138 1.138 1.081 1.081	0.123 0.092 0.337 0.549 0.403 0.495 0.462 0.687 0.077	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Front side Back side Front side Back side Front side Back side	20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	1:1 1:1 st data(\$ 1:1 1:1 data(\$e 1:1 1:1 data(\$e 1:1 1:1 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427 0.635 0.071	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05 -0.20 0.02	23.94 23.94 RB) 25.42 25.42 9%RB) 23.94 23.94 8B) 23.16 23.16 23.16 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50 23.50	1.138 1.138 1.019 1.019 1.138 1.138 1.081 1.081	0.123 0.092 0.337 0.549 0.403 0.495 0.462 0.687	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side Back side Front side Back side Left side Bottom side	20 20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 40175/1732.5 20175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5	1:1 1:1 1:1 1:1 1:1 data(Se 1:1 1:1 data(Se 1:1 1:1 1:1 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427 0.635 0.071 0.779 arate 10	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05 -0.20 0.02 0.15 mm 50%	23.94 23.94 (RB) 25.42 25.42 (%RB) 23.94 23.94 (RB) 23.16 23.16 23.16 23.16 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50 23.50 23.50 23.50	1.138 1.019 1.019 1.138 1.138 1.138 1.081 1.081 1.081	0.123 0.092 0.337 0.549 0.403 0.495 0.462 0.687 0.077 0.842	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side Back side Front side Back side Left side Bottom side Front side	20 20 20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 1_0 QPSK 1_0 E QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 40175/1732.5 20175/1732.5 20175/1732.5	1:1 1:1 1:1 st data(Se 1:1 1:1 data(Se 1:1 1:1 data(Se 1:1 1:1 1:1 1:1 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427 0.635 0.071 0.779 erate 100 0.448	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05 -0.20 0.02 0.15 mm 50% 0.05	23.94 23.94 25.42 25.42 26.42 27.42 29.48 23.94 23.94 23.16 23.16 23.16 23.16 23.16 23.16 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50 23.50 23.50 23.50	1.138 1.138 1.019 1.019 1.138 1.138 1.138 1.081 1.081 1.081 1.081	0.123 0.092 0.337 0.549 0.403 0.495 0.462 0.687 0.077 0.842	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Right tilted Front side Back side Front side Back side Front side Back side Left side Bottom side	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 50_0	20175/1732.5 20175/1732.5 Body worn Test 20175/1732.5 20175/1732.5 30dy worn Test 20175/1732.5 20175/1732.5 Hotspot Test 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 40175/1732.5 20175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5	1:1 1:1 1:1 st data(Se 1:1 1:1 data(Se 1:1 1:1 data(Se 1:1 1:1 1:1 1:1 1:1	0.108 0.081 Separate 0.331 0.539 eparate 1 0.354 0.435 eparate 1 0.427 0.635 0.071 0.779 arate 10	0.09 0.06 15mm 1 0.11 0.17 5mm 50 0.06 0.07 0mm 1F 0.05 -0.20 0.02 0.15 mm 50%	23.94 23.94 (RB) 25.42 25.42 (%RB) 23.94 23.94 (RB) 23.16 23.16 23.16 23.16 23.16	24.50 24.50 25.50 25.50 24.50 24.50 23.50 23.50 23.50 23.50	1.138 1.019 1.019 1.138 1.138 1.138 1.081 1.081 1.081	0.123 0.092 0.337 0.549 0.403 0.495 0.462 0.687 0.077 0.842	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6



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Bottom side	20	QPSK 50_0	20175/1732.5	1:1	0.840	0.16	22.97	23.50	1.130	0.949	22.6
Bottom side repeat	20	QPSK 50_0	20175/1732.5	1:1	0.836	0.03	22.97	23.50	1.130	0.945	22.6
			Hotspot Test da	ata(Sepa	arate 10n	nm 100%	6RB)				
Bottom side	20	OPSK 100 O	20175/1732.5	1:1	0.822	0.02	22.48	23.50	1.265	1.040	22.6
Bottom side	120	Q1 010 100_0					22.40	20.00	1.200	1.040	22.0
			Ar	it 3 res	Record				1		
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)	Limit/dRm	factor	SAR 1-g	Liquid Temp.(℃)
				Cycle	1-g	(dB)	r ower (abili)	Lillin (abin)	lactor	(W/kg)	remp.(C)
			Hea	d Test [Data(1RE	3)					
Left cheek	20	QPSK 1 0	20175/1732.5	1:1	0.191	-0.02	19.33	19.70	1.089	0.208	22.6
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.107	0.04	19.33	19.70	1.089	0.117	22.6
	_										
Right cheek	20		20175/1732.5	1:1	0.801	0.03	19.33	19.70	1.089	0.872	22.6
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.207	0.05	19.33	19.70	1.089	0.225	22.6
			Head	Test Da	ata(50%F	RB)					
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.201	0.06	19.38	19.70	1.076	0.216	22.6
Left tilted	20	QPSK 50 0	20175/1732.5	1:1	0.116	0.06	19.38	19.70	1.076	0.125	22.6
Right cheek	20		20175/1732.5	1:1	0.850	0.04	19.38	19.70	1.076	0.915	22.6
Right cheek repeat	20		20175/1732.5	1:1	0.847	-0.02	19.38	19.70	1.076	0.912	22.6
				1:1	0.218			19.70			
Right tilted	20	QPSK 50_0	20175/1732.5			0.06	19.38	19.70	1.076	0.235	22.6
		1	Head		ta(100%		1				1
Right cheek	20	QPSK 100_0	20175/1732.5	1:1	0.813	0.10	19.03	19.70	1.167	0.949	22.6
			Body worn Tes	st data(S	Separate	15mm 1	RB)				
Front side	20	QPSK 1 0	20175/1732.5	1:1	0.200	0.02	25.13	25.70	1.140	0.228	22.6
Back side	20	QPSK 1 0	20175/1732.5	1:1	0.292	0.10	25.13	25.70	1.140	0.333	22.6
24011 0140			Body worn Test					20.70		0.000	
Front side	20		20175/1732.5	1:1	0.164	0.05	23.92	24.70	1.197	0.196	22.6
	_										
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.226	0.14	23.92	24.70	1.197	0.270	22.6
		1	Hotspot Test								
Front side	20		20175/1732.5	1:1	0.137	0.08	19.33	19.70	1.089	0.149	22.6
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.211	0.02	19.33	19.70	1.089	0.230	22.6
aft = ! = ! =	20	QPSK 1 0	20175/1732.5	1:1	0.311	-0.10	19.33	19.70	1.089	0.339	22.6
Left side	20	QI OIX I_U	20113/1132.3		0.011	0.10	10.00	19.70	1.003	0.000	
Lett side	20							19.70	1.003	0.000	
	1		Hotspot Test d	ata(Sep	arate 10	mm 50%	RB)				
Front side	20	QPSK 50_0	Hotspot Test d 20175/1732.5	ata(Sep 1:1	arate 10 0.144	mm 50% 0.01	RB) 19.38	19.70	1.076	0.155	22.6
Front side Back side	20 20	QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1	arate 10 0.144 0.240	mm 50% 0.01 0.07	RB) 19.38 19.38	19.70 19.70	1.076 1.076	0.155 0.258	22.6 22.6
Front side	20	QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1	0.144 0.240 0.318	0.01 0.07 0.04	RB) 19.38	19.70	1.076	0.155	22.6
Front side Back side	20 20	QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1	arate 10 0.144 0.240	0.01 0.07 0.04	RB) 19.38 19.38	19.70 19.70	1.076 1.076	0.155 0.258 0.342	22.6 22.6
Front side Back side	20 20	QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:5 Tes	0.144 0.240 0.318	nm 50% 0.01 0.07 0.04	RB) 19.38 19.38 19.38	19.70 19.70 19.70	1.076 1.076 1.076	0.155 0.258 0.342 Scaled	22.6 22.6 22.6
Front side Back side Left side	20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar	ata(Sep 1:1 1:1 1:1 t 5 Tes	0.144 0.240 0.318 t Record	nm 50% 0.01 0.07 0.04 Power	RB) 19.38 19.38 19.38 Conducted	19.70 19.70 19.70	1.076 1.076 1.076	0.155 0.258 0.342 Scaled SAR 10-	22.6 22.6 22.6 Liquid
Front side Back side	20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5	1:1 1:1 1:1 1:1 1:1	0.144 0.240 0.318 t Record SAR (W/kg)	nm 50% 0.01 0.07 0.04 Power drift	RB) 19.38 19.38 19.38	19.70 19.70 19.70	1.076 1.076 1.076	0.155 0.258 0.342 Scaled SAR 10-	22.6 22.6 22.6
Front side Back side Left side	20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar	ata(Sep 1:1 1:1 1:1 t 5 Tes	0.144 0.240 0.318 t Record	nm 50% 0.01 0.07 0.04 Power	RB) 19.38 19.38 19.38 Conducted	19.70 19.70 19.70	1.076 1.076 1.076	0.155 0.258 0.342 Scaled SAR 10-	22.6 22.6 22.6 Liquid
Front side Back side Left side	20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq.	ata(Sep 1:1 1:1 1:1 1:5 Tesi Duty Cycle	0.144 0.240 0.318 t Record SAR (W/kg) 10-g	nm 50% 0.01 0.07 0.04 Power drift (dB)	RB) 19.38 19.38 19.38 Conducted	19.70 19.70 19.70	1.076 1.076 1.076	0.155 0.258 0.342 Scaled SAR 10- g	22.6 22.6 22.6 Liquid
Front side Back side Left side Test position	20 20 20 8W.	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq.	ata(Sep 1:1 1:1 1:1 1:5 Tes Duty Cycle	arate 10: 0.144 0.240 0.318 t Record SAR (W/kg) 10-g	nm 50% 0.01 0.07 0.04 Power drift (dB)	RB) 19.38 19.38 19.38 Conducted Power(dBm)	19.70 19.70 19.70 19.70 Tune up Limit(dBm)	1.076 1.076 1.076 Scaled factor	0.155 0.258 0.342 Scaled SAR 10- g (W/kg)	22.6 22.6 22.6 Liquid Temp.(°C)
Front side Back side Left side Test position Left cheek	20 20 20 8 W .	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:5 Test Duty Cycle	arate 10: 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06	RB) 19.38 19.38 19.38 Conducted Power(dBm)	19.70 19.70 19.70 19.70 Tune up Limit(dBm)	1.076 1.076 1.076 Scaled factor	0.155 0.258 0.342 Scaled SAR 10- g (W/kg)	22.6 22.6 22.6 Liquid Temp.(°C)
Front side Back side Left side Test position Left cheek Left tilted	20 20 20 8W.	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:5 Tesi Duty Cycle	arate 10 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418	0.01 0.07 0.04 Power drift (dB) 3) -0.06	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm)	1.076 1.076 1.076 Scaled factor 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493	22.6 22.6 22.6 Liquid Temp.(°C)
Front side Back side Left side Test position Left cheek Left tilted Right cheek	20 20 20 8w.	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:5 Tess Duty Cycle ad Test [1:1 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06 0.11 0.07	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00	1.076 1.076 1.076 5caled factor 1.279 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998	22.6 22.6 22.6 Liquid Temp.(°C)
Front side Back side Left side Test position Left cheek Left tilted	20 20 20 8W.	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 t 5 Tes Duty Cycle ad Test [1:1 1:1 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06 0.11 0.07 0.17	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm)	1.076 1.076 1.076 Scaled factor 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493	22.6 22.6 22.6 Liquid Temp.(°C)
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted	20 20 20 8W. 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 4 Head	ata(Sep 1:1 1:1 1:1 1:5 Tesi Duty Cycle dd Test [1:1 1:1 1:1 Test Da	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06 0.11 0.07 0.17	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00	1.076 1.076 1.076 5caled factor 1.279 1.279 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649	22.6 22.6 22.6 22.6 Liquid Temp.(°C) 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek	20 20 20 20 8W. 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. 462 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 462 20175/1732.5 462 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 t 5 Tes Duty Cycle ad Test [1:1 1:1 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06 0.11 0.07 0.17	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00	1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649	22.6 22.6 22.6 Liquid Temp.(°C)
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted	20 20 20 20 8W. 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 4 Head	ata(Sep 1:1 1:1 1:1 1:5 Tesi Duty Cycle dd Test [1:1 1:1 1:1 Test Da	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06 0.11 0.07 0.17	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00	1.076 1.076 1.076 5caled factor 1.279 1.279 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649	22.6 22.6 22.6 22.6 Liquid Temp.(°C) 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left cheek	20 20 20 20 8W. 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. 462 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 462 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:5 Tesi Duty Cycle dd Test [1:1 1:1 1:1 Test Da 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428	nm 50% 0.01 0.07 0.04 Power drift (dB) 3) -0.06 0.11 0.07 0.17 8B)	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.93	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649	22.6 22.6 22.6 22.6 Liquid Temp.(°C) 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 4 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 bt 5 Tes Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801	Power drift (dB) -0.06 0.01 0.07 0.04 Power drift (dB) -0.06 0.11 0.07 0.17 RB) 0.01 0.12 0.11	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- 9 (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053	22.6 22.6 22.6 22.6 Liquid Temp.(°C) 22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Right cheek Left tilted Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801	Power drift (dB) -0.06 0.01 0.07 0.04 -0.06 0.11 0.07 0.17 RB) 0.01 0.12 0.11 0.11	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 18.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665	22.6 22.6 22.6 22.6 Liquid Temp.(°C) 22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left tilted Right cheek Left tilted Right cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Head 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Tesi Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.798	Power drift (dB) 3) -0.06 0.11 0.07 0.17 RB) 0.01 0.12 0.11 -0.01	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.81 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Right cheek Left tilted Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Tesi Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.798 0.532	Power drift (dB) 3) -0.06 0.11 0.07 0.17 3B) 0.01 0.17 3B) 0.01 0.11 0.11 -0.01 0.15	RB) 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 18.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665	22.6 22.6 22.6 22.6 Liquid Temp.(°C) 22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.
Front side Back side Left side Test position Left cheek Left tilted Right cheek Left tilted Right tilted Right cheek Left tilted Right cheek repeat Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 40175/1732.5 20175/1732.5 20175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5 40175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.348 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.798 0.532 ta(100%	Power drift (dB) -0.06 -0.17 -0.07 -0.06 -0.11 -0.07 -0.17 -0.11 -0.01 -0.15 -0.01 -0.15 -0.01	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left tilted Right cheek Left tilted Right cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.798 0.532 ta(100% 0.801	Power drift (dB) 3) -0.06 0.11 0.07 0.08 -0.06 0.11 0.07 0.17 8B) 0.01 0.11 -0.01 0.15 RB) 0.11	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left tilted Right cheek Right cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right cheek with Inter-band CA Right cheek repeat Right cheek Right cheek	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. 462 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Body worn Test	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.798 0.532 ta(100% 0.801	Power drift (dB) 3) -0.06 0.11 0.07 0.08 -0.06 0.11 0.07 0.17 8B) 0.01 0.11 -0.01 0.15 RB) 0.11	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Left tilted Right tilted Right cheek Left tilted Right cheek repeat Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.798 0.532 ta(100% 0.801	Power drift (dB) 3) -0.06 0.11 0.07 0.08 -0.06 0.11 0.07 0.17 8B) 0.01 0.11 -0.01 0.15 RB) 0.11	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left tilted Right cheek Right cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right cheek with Inter-band CA Right cheek repeat Right cheek Right cheek	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. 462 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Body worn Test	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.798 0.532 ta(100% 0.801 Separate	Power drift (dB) -0.06 -0.17 -0.07 -0.06 -0.17 -0.07 -0.17 -0.015	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81 18.81 18.81 18.81	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left tilted Right cheek with Inter-band CA Right cheek repeat Right theek Right cheek Right cheek Right cheek Right cheek	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 Test mode QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Body worn Ter 20175/1732.5 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Test Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.798 0.532 ta(100% 0.801 0.801 0.801 0.801 0.901 0.901 0.901 0.901 0.901 0.901 0.901 0.901 0.901 0.901 0.901 0.901	Power drift (dB) 3) -0.06 0.11 0.07 0.17 3B) 0.11 -0.01 0.15 RB) 0.11 15mm 1 -0.06 -0.08	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81 18.81 24.43 24.43	19.70 19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051 0.416 0.573	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left tilted Right cheek with Inter-band CA Right cheek repeat Right theek Right cheek Right cheek	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Head 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:5 Test Duty Cycle ad Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.780 0.801 0.801 0.780 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801	Power drift (dB) 3) -0.06 0.11 0.07 0.17 8B) 0.01 0.11 -0.01 0.15 RB) 0.11 15mm 1 -0.06 -0.08 -0.08	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 18.81 24.43 24.43 24.43	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Right cheek Left tilted Right cheek Left tilted Right cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right cheek with Inter-band CA Right cheek repeat Right tilted Right cheek Front side Back side Back side	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 30dy worn Test 30175/1732.5 30dy worn Test	ata(Sep 1:1 1:1 1:1 1:5 Test Duty Cycle d Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.798 0.532 ta(100% 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801	Power drift (dB) 3) -0.06 0.11 0.07 0.17 8B) 0.01 0.12 0.11 -0.01 0.15 RB) 0.11 15mm 1 -0.06 -0.08 -0.08 5mm 50	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 24.43 24.43 24.43 %RB)	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051 0.416 0.573 0.455	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right cheek Front side Back side Back side Back side	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Head 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 30175/1732.5 Body worn Test 20175/1732.5 30dy worn Test 20175/1732.5	ata(Sep 1:1 1:1 1:1 1:1 1:5 Tesi Duty Cycle dd Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.801 0.798 0.532 ta(100% 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.801 0.988 0.325 0.448 0.448 cparate 1 0.273	Power drift (dB) 3) -0.06 0.11 0.07 0.17 8B) 0.01 0.12 0.11 -0.01 0.15 RB) 0.11 1-0.06 -0.08 -0.08 5mm 50 -0.04	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 24.43 24.43 24.43 %RB) 23.27	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051 0.416 0.573 0.455 0.362	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6
Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted Right cheek Left tilted Right cheek Left tilted Right cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right cheek with Inter-band CA Right cheek repeat Right tilted Right cheek Front side Back side Back side	20 20 20 20 20 20 20 20	QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Hotspot Test d 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 Ar Test ch./Freq. Hea 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 20175/1732.5 30dy worn Test 30175/1732.5 30dy worn Test	ata(Sep 1:1 1:1 1:1 1:5 Test Duty Cycle d Test [1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	arate 100 0.144 0.240 0.318 t Record SAR (W/kg) 10-g Data(1RE 0.418 0.385 0.780 0.507 ata(50%F 0.428 0.396 0.801 0.798 0.532 ta(100% 0.801 Separate 0.325 0.448 0.448 sparate 1 0.273 0.374	Power drift (dB) 3) -0.06 0.11 0.07 0.17 3B) -0.06 0.11 0.17 3B) 0.01 0.15 BB) 0.11 -0.01 0.15 BB) -0.08 -0.08 -0.08 -0.04 -0.10	RB) 19.38 19.38 19.38 19.38 Conducted Power(dBm) 18.93 18.93 18.93 18.93 18.81 18.81 18.81 18.81 18.81 24.43 24.43 24.43 24.43 %RB) 23.27 23.27	19.70 19.70 19.70 19.70 Tune up Limit(dBm) 20.00	1.076 1.076 1.076 1.076 Scaled factor 1.279 1.279 1.279 1.315 1.315 0.830 1.315 1.315 1.315 1.315	0.155 0.258 0.342 Scaled SAR 10- g (W/kg) 0.535 0.493 0.998 0.649 0.563 0.521 1.053 0.665 1.050 0.700 1.051 0.416 0.573 0.455	22.6 22.6 22.6 22.6 22.6 22.6 22.6 22.6



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							J -				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.114	-0.14	18.93	20.00	1.279	0.146	22.6
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.265	0.17	18.93	20.00	1.279	0.339	22.6
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.092	0.09	18.93	20.00	1.279	0.118	22.6
Top side	20	QPSK 1_0	20175/1732.5	1:1	0.315	0.06	18.93	20.00	1.279	0.403	22.6
			Hotspot Test da	ata(Sep	arate 10r	nm 50%	RB)				
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.116	0.12	18.81	20.00	1.315	0.153	22.6
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.274	0.14	18.81	20.00	1.315	0.360	22.6
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.095	-0.07	18.81	20.00	1.315	0.124	22.6
Top side	20	QPSK 50_0	20175/1732.5	1:1	0.344	0.08	18.81	20.00	1.315	0.452	22.6
Top side with Inter-band CA	20	QPSK 50_0	20175/1732.5	1:1	0.344	0.08	18.81	18.00	0.830	0.285	22.6

Table 17: SAR of LTE Band 4 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	20175/1732.5	0.840	0.836	1.005	N/A	N/A
Right cheek	20175/1732.5	0.850	0.847	1.004	N/A	N/A
Right cheek	20175/1732.5	0.801	0.798	1.004	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.2 SAR Result of LTE Band 5

					Ant 0 Tes	1					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Test I					(, 3/	
Left cheek	10	QPSK 1 0	20525/836.5	1:1	0.235	0.05	25.47	25.50	1.007	0.237	22.3
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.098	0.08	25.47	25.50	1.007	0.099	22.3
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.209	0.17	25.47	25.50	1.007	0.210	22.3
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.090	0.06	25.47	25.50	1.007	0.091	22.3
					ead Test Da						
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.176	0.14	24.43	24.50	1.016	0.179	22.3
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.070	0.05	24.43	24.50	1.016	0.071	22.3
Right cheek	10	QPSK 25_0		1:1	0.161	0.12	24.43	24.50	1.016	0.164	22.3
Right tilted	10	QPSK 25_0		1:1	0.071	0.19	24.43	24.50	1.016	0.072	22.3
	- 10	00014.4			Test data(05.50	4.007	0.045	
Front side	10	QPSK 1_0	20525/836.5	1:1	0.243	-0.09	25.47	25.50	1.007	0.245	22.3
Back side	10	QPSK 1_0	20525/836.5	1:1	0.342	-0.11	25.47	25.50	1.007	0.344	22.3
Front side	10	QPSK 25_0		ody worn I	0.202	9parate 15i 0.03	mm 50%RB) 24.43	24.50	1.016	0.205	22.3
Back side	10	QPSK 25_0 QPSK 25_0		1:1	0.202	-0.09	24.43	24.50	1.016	0.205	22.3
Daur Siue	10	QF 3N 20_0	20020/000.0		est data(Se			24.00	1.010	0.200	22.3
Front side	10	QPSK 1 0	20525/836.5	1:1	0.392	0.11	23.87	24.00	1.030	0.404	22.3
Back side	10	QPSK 1_0	20525/836.5	1:1	0.529	0.00	23.87	24.00	1.030	0.404	22.3
Right side	10	QPSK 1_0	20525/836.5	1:1	0.245	0.04	23.87	24.00	1.030	0.252	22.3
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.201	0.00	23.87	24.00	1.030	0.207	22.3
201101110100		<u> </u>			st data(Sep			00	11000	0.207	
Front side	10	QPSK 25_0	20525/836.5	1:1	0.400	0.10	23.60	24.00	1.096	0.439	22.3
Back side	10	QPSK 25_0	20525/836.5	1:1	0.423	0.00	23.60	24.00	1.096	0.464	22.3
Right side	10	QPSK 25_0		1:1	0.247	0.03	23.60	24.00	1.096	0.271	22.3
Bottom side	10	QPSK 25_0		1:1	0.199	0.04	23.60	24.00	1.096	0.218	22.3
					Ant 1 Tes	t Record					
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)	Limit(dBm)	factor	SAR 1-g	Temp.(℃)
				-	1-g	(dB)	,	-(- /		(W/kg)	- 1 ()
1 -4+ -11-	10	ODCK 1 0	00505/0005	1:1	Head Test I						
Left cheek	10	QPSK 1_0 QPSK 1_0	20525/836.5	1 1			40.04		4 000	0.400	00.0
Left tilted Right cheek	10		00E0E/00C E		0.404	0.00	19.84	20.20	1.086	0.439	22.3
Right tilted	10		20525/836.5	1:1	0.057	0.19	19.84	20.20	1.086	0.062	22.3
rtigrit tiiteu	10	QPSK 1_0	20525/836.5	1:1 1:1	0.057 0.277	0.19 0.01	19.84 19.84	20.20 20.20	1.086 1.086	0.062 0.301	22.3 22.3
	10			1:1 1:1 1:1	0.057 0.277 0.046	0.19 0.01 0.18	19.84 19.84 19.84	20.20	1.086	0.062	22.3
I eft cheek		QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5	1:1 1:1 1:1 He	0.057 0.277 0.046 ead Test Da	0.19 0.01 0.18 ata(50%RE	19.84 19.84 19.84	20.20 20.20 20.20	1.086 1.086 1.086	0.062 0.301 0.049	22.3 22.3 22.3
Left cheek	10	QPSK 1_0 QPSK 1_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 He	0.057 0.277 0.046 ead Test Da 0.402	0.19 0.01 0.18 ata(50%RE 0.09	19.84 19.84 19.84 3)	20.20 20.20 20.20 20.20	1.086 1.086 1.086 1.099	0.062 0.301 0.049 0.442	22.3 22.3 22.3 22.3
Left tilted	10	QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 Ho 1:1	0.057 0.277 0.046 ead Test Da 0.402 0.043	0.19 0.01 0.18 ata(50%RE 0.09 0.16	19.84 19.84 19.84 3) 19.79 19.79	20.20 20.20 20.20 20.20 20.20	1.086 1.086 1.086 1.099 1.099	0.062 0.301 0.049 0.442 0.047	22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek	10	QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 He	0.057 0.277 0.046 ead Test Da 0.402	0.19 0.01 0.18 ata(50%RE 0.09	19.84 19.84 19.84 3)	20.20 20.20 20.20 20.20 20.20 20.20 20.20	1.086 1.086 1.086 1.099	0.062 0.301 0.049 0.442	22.3 22.3 22.3 22.3
Left tilted	10 10 10	QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 He 1:1 1:1 1:1	0.057 0.277 0.046 ead Test Da 0.402 0.043 0.275 0.044	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79	20.20 20.20 20.20 20.20 20.20	1.086 1.086 1.086 1.099 1.099 1.099	0.062 0.301 0.049 0.442 0.047 0.302	22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek	10 10 10	QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 He 1:1 1:1 1:1	0.057 0.277 0.046 ead Test Da 0.402 0.043 0.275 0.044 Test data(\$	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79 5mm 1RB)	20.20 20.20 20.20 20.20 20.20 20.20 20.20	1.086 1.086 1.086 1.099 1.099 1.099 1.099	0.062 0.301 0.049 0.442 0.047 0.302 0.048	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted	10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 He 1:1 1:1 1:1 1:1 Body worn	0.057 0.277 0.046 ead Test Da 0.402 0.043 0.275 0.044	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20	1.086 1.086 1.086 1.099 1.099 1.099	0.062 0.301 0.049 0.442 0.047 0.302	22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side	10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 B	1:1 1:1 1:1 He 1:1 1:1 1:1 1:1 Body worn 1:1	0.057 0.277 0.046 ead Test Da 0.402 0.043 0.275 0.044 Test data(\$ 0.265 0.311	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79 5mm 1RB) 22.35	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099	0.062 0.301 0.049 0.442 0.047 0.302 0.048	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side	10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 B 20525/836.5	1:1 1:1 1:1 He 1:1 1:1 1:1 1:1 Body worn 1:1 1:1 ody worn T	0.057 0.277 0.046 ead Test Da 0.402 0.043 0.275 0.044 Test data(\$ 0.265 0.311	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB)	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099	0.062 0.301 0.049 0.442 0.047 0.302 0.048	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side	10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 B 20525/836.5	1:1 1:1 1:1 Hi 1:1 1:1 1:1 Body worn 1:1 1:1 ody worn T 1:1	0.057 0.277 0.046 ead Test Di 0.402 0.043 0.275 0.044 Test data(Se 0.265 0.311 est data(Se 0.265	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 eparate 15 0.13 -0.04	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099 1.084 1.084	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.337	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side Back side	10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 B 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Body worn 1:1 1:1 ody worn T 1:1 1:1	0.057 0.277 0.046 ead Test Da 0.402 0.043 0.275 0.044 Test data(Se 0.265 0.311 est data(Se 0.265 0.310 est data(Se	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 eparate 150 0.13 -0.04 eparate 100	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 mm 1RB)	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099 1.084 1.084 1.107 1.107	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.337	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side	10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 8 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Body worn 1:1 1:1 ody worn T 1:1 1:1 Hotspot T	0.057 0.277 0.046 ead Test Di 0.402 0.043 0.275 0.044 Test data(Se 0.265 0.311 est data(Se 0.255 0.310 est data(Se 0.252	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 eparate 15i 0.13 -0.04 eparate 10i 0.16	19.84 19.84 19.84 3) 19.79 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 22.26 mm 1RB)	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099 1.084 1.084 1.107 1.1107	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.293 0.343	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side Back side	10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Body worn 1:1 1:1 ody worn T 1:1 1:1 Hotspot T 1:1	0.057 0.277 0.046 ead Test Discourse of the control of the cont	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 eparate 15i 0.13 -0.04 eparate 10i 0.16	19.84 19.84 19.84 19.84 3) 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 mm 1RB) 19.24 19.24	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70 19.70	1.086 1.086 1.086 1.099 1.099 1.099 1.084 1.084 1.107 1.107 1.112 1.112	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.293 0.343	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side	10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 B 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Body worn 1:1 1:1 ody worn T 1:1 1:1 Hotspot T 1:1	0.057 0.277 0.046 ead Test Discounting to the control of the co	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 eparate 151 0.13 -0.04 eparate 100 0.16 0.15 -0.07	19.84 19.84 19.84 19.84 3) 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 mm 1RB) 19.24 19.24	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099 1.084 1.084 1.107 1.1107	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.293 0.343	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side Back side Left side	10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 8 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.057 0.277 0.046 ead Test Di 0.402 0.043 0.275 0.044 Test data(\$6 0.265 0.311 est data(\$6 0.252 0.308 0.416 st data(\$6 s	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 -0.04 eparate 10r 0.16 0.15 -0.07 parate 10m	19.84 19.84 19.84 19.84 3) 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 mm 1RB) 19.24 19.24 19.24 m 50%RB)	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70 19.70 19.70	1.086 1.086 1.086 1.099 1.099 1.099 1.084 1.084 1.107 1.1107	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.337 0.293 0.343	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right cheek Right tilted Front side Back side Front side Back side Front side Left side Front side	10 10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 8 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.057 0.277 0.046 ead Test Di 0.402 0.043 0.275 0.044 Test data(\$6 0.265 0.311 est data(\$6 0.310 est data(\$6 0.252 0.308 0.416 st data(\$6 0.253	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 eparate 151 0.13 -0.04 eparate 10n 0.16 0.15 -0.07 erarate 10m 0.06	19.84 19.84 19.84 19.84 3) 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 mm 1RB) 19.24 19.24 m 50%RB) 19.18	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70 19.70 19.70	1.086 1.086 1.086 1.099 1.099 1.099 1.099 1.084 1.084 1.107 1.1107 1.112 1.112 1.112	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.337 0.293 0.343 0.280 0.342 0.462	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side Back side Left side	10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 8 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5 20525/836.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.057 0.277 0.046 ead Test Di 0.402 0.043 0.275 0.044 Test data(\$6 0.265 0.311 est data(\$6 0.252 0.308 0.416 st data(\$6 s	0.19 0.01 0.18 ata(50%RE 0.09 0.16 0.15 0.13 Separate 1 0.17 0.13 -0.04 eparate 10r 0.16 0.15 -0.07 parate 10m	19.84 19.84 19.84 19.84 3) 19.79 19.79 19.79 5mm 1RB) 22.35 22.35 mm 50%RB) 22.26 22.26 mm 1RB) 19.24 19.24 19.24 m 50%RB)	20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 22.70 22.70 22.70 19.70 19.70	1.086 1.086 1.086 1.099 1.099 1.099 1.084 1.084 1.107 1.1107	0.062 0.301 0.049 0.442 0.047 0.302 0.048 0.287 0.337 0.293 0.343	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3

Table 18: SAR of LTE Band 5 for Head and Body.



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8.2.3 SAR Result of LTE Band 7

	_		Ant 0 Test F	Record							
_	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled		Liquid Temp.(℃
			Head Test Da								
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.061	0.05	23.18	23.50	1.076	0.065	22.3
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.018	0.01	23.18	23.50	1.076	0.020	22.3
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.070	0.03	23.18	23.50	1.076	0.075	22.3
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.086	0.02	23.18	23.50	1.076	0.092	22.3
ght tilted with Intra-band CA	20	QPSK 1_0	21099+21901/2412+2392.2	1:1	0.085	0.09	23.21	23.50	1.069	0.091	22.3
1 -4 -11	T 00	ODOK 50. 0	Head Test Data	, ,		0.04	00.40	00.50	1 001	0.040	00.0
Left cheek Left tilted	20	QPSK 50_0 QPSK 50_0	21100/2535 21100/2535	1:1	0.043	0.04	22.16 22.16	22.50 22.50	1.081	0.046	22.3 22.3
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.021	0.03	22.16	22.50	1.081	0.023	22.3
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.054	0.07	22.16	22.50	1.081	0.038	22.3
riight tiited	20	Q1 31 30_0	Body worn Test data(Se				22.10	22.30	1.001	0.070	22.0
Front side	20	QPSK 1 0	21100/2535		0.136	0.09	23.18	23.50	1.076	0.146	22.3
Back side	20	QPSK 1 0	21100/2535	1:1	0.147	0.08	23.18	23.50	1.076	0.158	22.3
ack side with Intra-band CA	20		21099+21901/2412+2392.2	1:1	0.144	-0.03	23.21	23.50	1.069	0.154	22.3
			Body worn Test data(Sepa								
Front side	20	QPSK 50 0	21100/2535	1:1	0.110	0.04	22.16	22.50	1.081	0.119	22.3
Back side	20	QPSK 50 0	21100/2535	1:1	0.130	0.05	22.16	22.50	1.081	0.141	22.3
		_	Hotspot Test data(Sepa	arate 1	0mm 1	RB)	l .				ı
Front side	20	QPSK 1_0	21100/2535		0.246	0.01	20.75	21.00	1.059	0.261	22.3
Back side	20	QPSK 1_0	21100/2535	1:1	0.345	0.08	20.75	21.00	1.059	0.365	22.3
ack side with Intra-band CA	20	QPSK 1_0	21099+21901/2412+2392.2	1:1	0.277	0.01	20.73	21.00	1.064	0.295	22.3
Right side	20	QPSK 1_0	21100/2535	1:1	0.155	0.06	20.75	21.00	1.059	0.164	22.3
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.258	0.08	20.75	21.00	1.059	0.273	22.3
			Hotspot Test data(Separa	ate 10r	nm 509	%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.217	0.08	20.71	21.00	1.069	0.232	22.3
Back side	20	QPSK 50_0	21100/2535	1:1	0.238	0.02	20.71	21.00	1.069	0.254	22.3
Right side	20	QPSK 50_0	21100/2535	1:1	0.128	0.05	20.71	21.00	1.069	0.137	22.3
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.211	-0.05	20.71	21.00	1.069	0.226	22.3
			Ant 2 Test F	Record							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled		Liquid Temp.(℃
			Head Test Da	ta(1RE	3)					(*******3)	
Loft obook	20	QPSK 1_0	21100/2535		0.290	0.03	25.17	25.50	1.079	0.313	22.3
Left cheek	20	QPSK 1_0	01000 - 01001/0110 - 0000 0				05.00				
eft cheek with Intra-band CA	20		21099+21901/2412+2392.2	1:1	0.282	-0.01	25.09	25.50	1.099	0.310	22.3
	20	QPSK 1_0	21100/2535	1:1	0.282	-0.01 0.04	25.09	25.50 25.50	1.099 1.079	0.310	
eft cheek with Intra-band CA	20	QPSK 1_0 QPSK 1_0									22.3
eft cheek with Intra-band CA Left tilted			21100/2535 21100/2535 21100/2535	1:1 1:1 1:1	0.083 0.184 0.069	0.04	25.17	25.50	1.079	0.089	22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek	20	QPSK 1_0 QPSK 1_0	21100/2535 21100/2535	1:1 1:1 1:1	0.083 0.184 0.069	0.04 0.02	25.17 25.17	25.50 25.50	1.079 1.079	0.089 0.199	22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek	20	QPSK 1_0	21100/2535 21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535	1:1 1:1 1:1	0.083 0.184 0.069	0.04 0.02	25.17 25.17	25.50 25.50 25.50 24.50	1.079 1.079	0.089 0.199	22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1	0.083 0.184 0.069 RB) 0.240 0.041	0.04 0.02 0.07 0.02 0.06	25.17 25.17 25.17 24.16 24.16	25.50 25.50 25.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081	0.089 0.199 0.074 0.260 0.044	22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1	0.083 0.184 0.069 8B) 0.240 0.041 0.149	0.04 0.02 0.07 0.02 0.06 0.04	25.17 25.17 25.17 24.16 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081	0.089 0.199 0.074 0.260 0.044 0.161	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.054	0.04 0.02 0.07 0.02 0.06 0.04 0.11	25.17 25.17 25.17 24.16 24.16	25.50 25.50 25.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081	0.089 0.199 0.074 0.260 0.044	22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Se	1:1 1:1 1:1 (50%F 1:1 1:1 1:1	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.054 15mm	0.04 0.02 0.07 0.02 0.06 0.04 0.11 1RB)	25.17 25.17 25.17 25.17 24.16 24.16 24.16 24.16	25.50 25.50 25.50 25.50 24.50 24.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081	0.089 0.199 0.074 0.260 0.044 0.161 0.059	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Right tilted Front side	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Se) 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 0arate	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.054 15mm 0.440	0.04 0.02 0.07 0.02 0.06 0.04 0.11 1RB)	25.17 25.17 25.17 25.17 24.16 24.16 24.16 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081	0.089 0.199 0.074 0.260 0.044 0.161 0.059	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Front side Back side	20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Se) 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 1:1 0arate 1:1	0.083 0.184 0.069 8B) 0.240 0.041 0.149 0.054 15mm 0.440 0.464	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03	25.17 25.17 25.17 24.16 24.16 24.16 24.16 24.16 25.17 25.17	25.50 25.50 25.50 24.50 24.50 24.50 24.50 24.50 25.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081 1.079 1.079	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Right tilted Front side	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sej 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 0arate 1:1 1:1	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09	25.17 25.17 25.17 25.17 24.16 24.16 24.16 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081 1.079 1.079	0.089 0.199 0.074 0.260 0.044 0.161 0.059	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Alight tilted Front side Back side ack side with Intra-band CA	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sep 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21099+21901/2412+2392.2 Body worn Test data(Sepa	1:1 1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 20 arate 1:1 1:1 1:1 1:1	0.083 0.184 0.069 8B) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454	0.04 0.02 0.07 0.02 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB)	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.09	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081 1.079 1.079 1.099	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Alight tilted Front side Back side ack side with Intra-band CA Front side	20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sep 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 20 arate 1:1 1:1 1:1 1:1	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454 5mm 50 0.395	0.04 0.02 0.07 0.02 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB) 0.01	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.09	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081 1.079 1.079 1.079	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Alight tilted Front side Back side ack side with Intra-band CA	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sep 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 0 arate 1:1 1:1 1:1 1:1 1:1	0.083 0.184 0.069 8B) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454 5mm 56 0.395 0.385	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB) 0.01 0.02	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.09	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50	1.079 1.079 1.079 1.081 1.081 1.081 1.081 1.079 1.079 1.099	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
fit cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Aight cheek Front side Back side ack side with Intra-band CA Front side Back side Back side	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sep 21100/2535 21100/2535 21100/2535 21099+21901/2412+2392.2 Body worn Test data(Sepa 21100/2535 21100/2535 41100/2535 21100/2535 C1100/2535 C1100/2535 C1100/2535 C1100/2535 C1100/2535 C1100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 0 arate 1:1 1:1 1:1 arate 1! 1:1 1:1	0.083 0.184 0.069 8B) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454 5mm 50 0.395 0.385 0mm 1	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB) 0.01 0.02 RB)	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.09 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.079 1.079 1.079 1.099	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Right tilted Front side Back side ack side with Intra-band CA Front side Back side Front side	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sep 21100/2535 21100/2535 21100/2535 21099+21901/2412+2392.2 Body worn Test data(Sepa 21100/2535 21100/2535 Hotspot Test data(Sepa 21100/2535	1:1 1:1 1:1 0(50%F 1:1 1:1 1:1 1:1 0 carate 1:1 1:1 1:1 1:1 arate 1(1) 1:1 1:1	0.083 0.184 0.069 8B) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454 0.395 0.395 0.385	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB) 0.01 0.02 RB)	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.09 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.079 1.079 1.079 1.099 1.081 1.081	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.427 0.416	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
ft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Front side Back side ack side with Intra-band CA Front side Back side Front side Back side	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sepanton Sepanton Sepant	1:1 1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	0.083 0.184 0.069 8B) 0.240 0.041 0.149 0.054 15mm 0.440 0.464 0.454 5mm 56 0.395 0.395 0.385 0.382 0.432	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0.01 0.02 RB) 0.01 0.02	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.17 25.09 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50 24.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.079 1.079 1.099 1.081 1.081 1.076	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499 0.427 0.416	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side ack side with Intra-band CA Front side Back side Front side Back side Left side Left side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Se) 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 1:1 20 arate 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.440 0.454 5mm 5 0.385 0.385 0.385 0.385 0.382 0.432 0.183	0.04 0.02 0.07 0.02 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB) 0.01 0.02 RB) 0.01 0.02	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.17 25.09 24.16 24.16 18.18 18.18	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50 24.50 24.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.079 1.079 1.099 1.081 1.081 1.076 1.076	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499 0.427 0.416 0.411 0.465 0.197	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
eft cheek with Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side with Intra-band CA Front side Back side Front side Back side Back side	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 Head Test Data 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test data(Sepanton Sepanton Sepant	1:1 1:1 1:1 1:1 (50%F 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	0.083 0.184 0.069 RB) 0.240 0.041 0.149 0.440 0.464 0.454 0.395 0.385 0.385 0.382 0.432 0.432	0.04 0.02 0.07 0.06 0.04 0.11 1RB) 0.07 -0.03 0.09 0%RB) 0.01 0.02 RB) 0.01 0.02 0.08 -0.13	25.17 25.17 25.17 24.16 24.16 24.16 24.16 25.17 25.17 25.17 25.09 24.16 24.16	25.50 25.50 25.50 24.50 24.50 24.50 24.50 25.50 25.50 25.50 24.50 24.50 24.50	1.079 1.079 1.079 1.081 1.081 1.081 1.079 1.079 1.099 1.081 1.081 1.076 1.076	0.089 0.199 0.074 0.260 0.044 0.161 0.059 0.475 0.501 0.499 0.427 0.416	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3



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Back side	20	QPSK 50_0	21100/2535	1:1	0.392	0.03	18.02	18.50	1.117	0.438	22.3
Left side	20	QPSK 50_0	21100/2535	1:1	0.168	0.11	18.02	18.50	1.117	0.188	22.3
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.417	0.03	18.02	18.50	1.117	0.466	22.3
Bottom side with Intra-band CA	20	QPSK 1_0	21099+21901/2412+2392.2	1:1	0.409	0.06	18.15	18.50	1.084	0.443	22.3

			Ant 3 Test F	Record							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		factor		
			Head Test Da								
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.278		18.81	19.00	1.045	0.290	22.4
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.139	0.07	18.81	19.00	1.045	0.145	22.4
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.798	0.02	18.81	19.00	1.045	0.834	22.4
Right cheek	20	QPSK 1_0	20850/2510	1:1	0.692	-0.02	18.71	19.00	1.069	0.740	22.4
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.812	-0.07	18.75	19.00	1.059	0.860	22.4
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.312	0.04	18.81	19.00	1.045	0.326	22.4
			Head Test Data	(50%F	RB)						
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.299		18.62	19.00	1.091	0.326	22.4
Left tilted	20	QPSK 50_0	21100/2535	1:1			18.62	19.00	1.091	0.169	22.4
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.855	0.19	18.62	19.00	1.091	0.933	22.4
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.741	-0.07	18.44	19.00	1.138	0.843	22.4
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.879	0.02	18.39	19.00	1.151	1.012	22.4
Right cheek repeat	20	QPSK 50_0	21350/2560	1:1	0.811	0.05	18.39	19.00	1.151	0.933	22.4
Right cheek with Intra-band CA	20	QPSK 1_0	21152+21350/2540.2+2560	1:1	0.833	0.01	18.76	19.00	1.057	0.880	22.4
Right cheek with EN-DC/Inter- band CA	20	QPSK 50_0	21350/2560	1:1	0.879	0.02	18.09	14.50	0.438	0.385	22.4
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.344	0.05	18.62	19.00	1.091	0.375	22.4
			Head Test Data	(100%							
Right cheek	20	QPSK 100_0	21350/2560	1:1	0.625	-0.01	18.66	19.00	1.081	0.676	22.4
			Body worn Test data(Se	parate	: 15mm	1RB)					
Front side	20	QPSK 1_0	21100/2535	1:1	0.243	0.01	24.35	24.50	1.035	0.252	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.380		24.35	24.50	1.035	0.393	22.4
			Body worn Test data(Sepa	arate 1	5mm 5	50%RE	3)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.268		24.2	24.50	1.072	0.287	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.425	0.03	24.2	24.50	1.072	0.455	22.4
Back side with Intra-band CA	20	QPSK 1_0	21099+21901/2412+2392.2	1:1	0.396	0.09	24.31	24.50	1.045	0.414	22.4
			Hotspot Test data(Sepa	arate 1	10mm	1RB)					
Front side	20	QPSK 1_0	21100/2535	1:1	0.122	0.01	18.81	19.00	1.119	0.137	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.242	0.05	18.81	19.00	1.119	0.271	22.4
Left side	20	QPSK 1_0	21100/2535	1:1	0.524	0.09	18.81	19.00	1.119	0.587	22.4
		_	Hotspot Test data(Separ	ate 10	mm 50)%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.133	0.04	18.62	19.00	1.091	0.145	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.229	-0.03	18.62	19.00	1.091	0.250	22.4
Left side	20	QPSK 50_0	21100/2535	1:1	0.555	0.13	18.62	19.00	1.091	0.606	22.4
Left side with Intra-band CA	20		21099+21901/2412+2392.2	1:1	0.517	0.01	18.76	19.00	1.057	0.546	22.4
Left side with EN-DC/Inter-band CA	20	QPSK 50_0	21100/2535	1:1	0.555	0.13	18.32	14.50	0.415	0.230	22.4



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			Ant 5 Test F	Record		ugo	_	-			
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	
			Head Test Da	ta(1RE	3)						
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.348	0.1	17.15	17.50	1.084	0.377	22.4
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.247	0.12	17.15	17.50	1.084	0.268	22.4
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.528	0.06	17.15	17.50	1.084	0.572	22.4
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.417	0.04	17.15	17.50	1.084	0.452	22.4
			Head Test Data	ι(50%F	RB)						
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.238	0.02	16.87	17.50	1.156	0.275	22.4
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.252	0.06	16.87	17.50	1.156	0.291	22.4
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.561	0.11	16.87	17.50	1.156	0.649	22.4
Right cheek with EN-DC/Inter- band CA	20	QPSK 50_0	21100/2535	1:1	0.561	0.11	16.87	15.00	0.650	0.365	22.4
Right cheek Intra-band CA	20	QPSK 1_0	21099+21901/2412+2392.2	1:1	0.502	0.09	17.14	17.50	1.086	0.545	22.4
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.442	0.04	16.87	17.50	1.156	0.511	22.4
-			Body worn Test data(Ser	oarate	15mm	1RB)					
Front side	20	QPSK 1 0	21100/2535	1:1	0.422	0.03	24.65	25.00	1.084	0.457	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.598	-0.05	24.65	25.00	1.084	0.648	22.4
Back side with Intra-band CA	20	QPSK 1 0	21099+21901/2412+2392.2	1:1	0.562	0.07	24.41	25.00	1.146	0.644	22.4
Back side with EN-DC/Inter- band CA	20	QPSK 1_0	21100/2535	1:1	0.598	-0.05	24.65	22.00	0.543	0.325	22.4
		•	Body worn Test data(Sepa	rate 1	5mm 50	0%RB)	•	•	•	•	•
Front side	20	QPSK 50 0	21100/2535	1:1	0.354	0.03	23.55	24.00	1.109	0.393	22.4
Back side	20	QPSK 50 0	21100/2535	1:1	0.546	0.03	23.55	24.00	1.109	0.606	22.4
			Hotspot Test data(Sepa	arate 1	0mm 1	RB)	•	•	•	•	•
Front side	20	QPSK 1 0	21100/2535	1:1	0.122	0.04	17.15	17.50	1.084	0.132	22.4
Back side	20	QPSK 1 0	21100/2535	1:1	0.187	0.05	17.15	17.50	1.084	0.203	22.4
Left side	20	QPSK 1 0	21100/2535	1:1	0.270	0.04	17.15	17.50	1.084	0.293	22.4
Top side	20	QPSK 1 0	21100/2535	1:1	0.269	-0.11	17.15	17.50	1.084	0.292	22.4
		_	Hotspot Test data(Separa	ate 10	nm 509	%RB)		•			l.
Front side	20	QPSK 50_0	21100/2535	1:1	0.129	0.11	16.87	17.50	1.156	0.149	22.4
Back side	20	QPSK 50 0	21100/2535	1:1	0.190		16.87	17.50	1.156	0.220	22.4
Left side	20	QPSK 50 0	21100/2535	1:1	0.283		16.87	17.50	1.156	0.327	22.4
Top side	20	QPSK 50 0	21100/2535	1:1	0.284		16.87	17.50		0.328	22.4
Top side with Intra-band CA	20		21099+21901/2412+2392.2	1:1	0.278		17.14	17.50	1.086	0.302	22.4
Top side with EN-DC/Interband CA	20	QPSK 50_0	21100/2535	1:1	0.284		16.87	15.00	0.650	0.185	22.4

Table 19: SAR of LTE Band 7 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	, -,	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	21350/2560	0.879	0.811	1.084	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.2.4 SAR Result of LTE Band 12

				Ant	0 Test Re	cord					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
		T = = = 1	T		Test Data						
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.118	0.15	25.18	25.70	1.127	0.133	22.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.034	0.14	25.18	25.70	1.127	0.038	22.2
Right cheek	10	QPSK 1_0		1:1	0.097	-0.12	25.18	25.70	1.127	0.109	22.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.053 Test Data(5	-0.14	25.18	25.70	1.127	0.060	22.2
Left cheek	10	QPSK 25 0	23095/707.5	1:1	0.099	-0.02	24.19	24.70	1.125	0.112	22.2
Left tilted	10	QPSK 25_0		1:1	0.029	0.06	24.19	24.70	1.125	0.032	22.2
Right cheek	10	QPSK 25_0		1:1	0.084	0.13	24.19	24.70	1.125	0.095	22.2
Right tilted	10	QPSK 25 0		1:1	0.044	-0.15	24.19	24.70	1.125	0.049	22.2
9				worn Test	data(Sepa	arate 15mr					l.
Front side	10	QPSK 1_0	23095/707.5	1:1	0.119	0.08	25.18	25.70	1.127	0.134	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.262	-0.01	25.18	25.70	1.127	0.295	22.2
				vorn Test o	lata(Separ	ate 15mm	50%RB)				
Front side	10	QPSK 25_0		1:1	0.102	0.06	24.19	24.70	1.125	0.115	22.2
Back side	10	QPSK 25_0		1:1	0.237	0.01	24.19	24.70	1.125	0.267	22.2
		Tanaur .				ate 10mm					
Front side	10	QPSK 1_0	23095/707.5	1:1	0.217	0.09	25.18	25.70	1.127	0.245	22.2
Back side	10	QPSK 1_0	23790/710	1:1	0.258 0.188	0.07	25.18	25.70	1.127	0.291	22.2
Right side Bottom side	10	QPSK 1_0	23095/707.5	1:1 1:1	0.188	0.01	25.18	25.70	1.127 1.127	0.212	22.2 22.2
Bollom side	10	QPSK 1_0				0.06 te 10mm 50	25.18	25.70	1.127	0.112	22.2
Front side	10	QPSK 25 0		1:1	0.187	0.10	24.19	24.70	1.125	0.210	22.2
Back side	10	QPSK 25_0		1:1	0.107	0.10	24.19	24.70	1.125	0.252	22.2
Right side	10	QPSK 25_0		1:1	0.156	-0.01	24.19	24.70	1.125	0.175	22.2
Bottom side	10	QPSK 25 0		1:1	0.086	0.02	24.19	24.70	1.125	0.097	22.2
				Ant							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
Head Test Data(1RB					1-g	(dB)				(W/kg)	
Left cheek	10	QPSK 1 0	23095/707.5	1:1	0.857	0.02	25.23	25.70	1.114	0.955	22.2
Left cheek repeat	10	QPSK 1 0	23095/707.5	1:1	0.803	-0.02	25.23	25.70	1.114	0.895	22.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.137	0.02	25.23	25.70	1.114	0.153	22.2
Right cheek	10	QPSK 1 0	23095/707.5	1:1	0.576	-0.14	25.23	25.70	1.114	0.642	22.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.114	0.20	25.23	25.70	1.114	0.127	22.2
y					est Data(-	L
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.796	0.11	24.22	24.70	1.117	0.889	22.2
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.123	0.00	24.22	24.70	1.117	0.137	22.2
Dialet disease					-	-0.09	L-T.LL				22.2
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.519	0.17	24.22	24.70	1.117	0.580	
Right cheek Right tilted	10	_		1:1 1:1	0.519 0.103	0.17 0.18		24.70 24.70	1.117 1.117	0.580	22.2
Right tilted	10	QPSK 25_0	23095/707.5 23095/707.5	1:1 1:1 Head T	0.519 0.103 est Data(1	0.17 0.18 00%RB)	24.22 24.22	24.70	1.117	0.115	22.2
<u> </u>	10	QPSK 25_0	23095/707.5 23095/707.5 23095/707.5	1:1 1:1 Head T 1:1	0.519 0.103 est Data(1 0.754	0.17 0.18 00%RB) 0.01	24.22 24.22 24.23				
Right tilted Left cheek	10	QPSK 25_0 QPSK 50_0	23095/707.5 23095/707.5 23095/707.5 Body	1:1 1:1 Head T 1:1 worn Test	0.519 0.103 est Data(1 0.754 data(Sepa	0.17 0.18 00%RB) 0.01 arate 15mr	24.22 24.22 24.23 n 1RB)	24.70	1.117	0.115	22.2
Right tilted Left cheek Front side	10	QPSK 25_0 QPSK 50_0 QPSK 1_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240	0.17 0.18 00%RB) 0.01 arate 15mr 0.03	24.22 24.22 24.23 n 1RB) 25.23	24.70 24.70 25.70	1.117 1.114 1.114	0.115 0.840 0.267	22.2 22.2 22.2
Right tilted Left cheek	10	QPSK 25_0 QPSK 50_0 QPSK 1_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07	24.22 24.22 24.23 n 1RB) 25.23 25.23	24.70	1.117	0.115	22.2
Right tilted Left cheek Front side Back side	10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 vorn Test o	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 lata(Separ	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm	24.22 24.22 24.23 n 1RB) 25.23 25.23 50%RB)	24.70 24.70 25.70 25.70	1.117 1.114 1.114 1.114	0.115 0.840 0.267 0.329	22.2 22.2 22.2 22.2
Right tilted Left cheek Front side Back side Front side	10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 25_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 vorn Test o	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 ata(Separ 0.216	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22	24.70 24.70 25.70 25.70 24.70	1.117 1.114 1.114 1.114 1.117	0.115 0.840 0.267 0.329	22.2 22.2 22.2 22.2 22.2
Right tilted Left cheek Front side Back side	10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 25_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w 23095/707.5 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 yorn Test o 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 lata(Separ 0.216 0.266	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02 0.01	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22 24.22	24.70 24.70 25.70 25.70	1.117 1.114 1.114 1.114	0.115 0.840 0.267 0.329	22.2 22.2 22.2 22.2
Right tilted Left cheek Front side Back side Front side Back side	10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w 23095/707.5 23095/707.5 Hots	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 vorn Test o 1:1 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 lata(Separ 0.216 0.266 ata(Separ	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02 0.01 ate 10mm	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22 24.22 1RB)	24.70 24.70 25.70 25.70 24.70 24.70	1.117 1.114 1.114 1.114 1.117 1.117	0.115 0.840 0.267 0.329 0.241 0.297	22.2 22.2 22.2 22.2 22.2 22.2
Right tilted Left cheek Front side Back side Front side Back side Front side	10 10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 1_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w 23095/707.5 23095/707.5 Hots 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 yorn Test of 1:1 1:1 spot Test of 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 lata(Separ 0.216 0.266 ata(Separ 0.375	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02 0.01 ate 10mm 0.03	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22 24.22 1RB) 24.17	24.70 24.70 25.70 25.70 24.70 24.70	1.117 1.114 1.114 1.114 1.117 1.117	0.115 0.840 0.267 0.329 0.241 0.297	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Right tilted Left cheek Front side Back side Front side Back side Front side Back side	10 10 10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w 23095/707.5 23095/707.5 Hots 23095/707.5 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 yorn Test of 1:1 1:1 spot Test of 1:1 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 ata(Separ 0.216 0.266 ata(Separ 0.375 0.512	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02 0.01 ate 10mm 0.03 0.03	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22 24.22 1RB) 24.17 24.17	24.70 24.70 25.70 25.70 24.70 24.70 24.70 24.70	1.117 1.114 1.114 1.114 1.117 1.117 1.130 1.130	0.115 0.840 0.267 0.329 0.241 0.297 0.424 0.578	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Right tilted Left cheek Front side Back side Front side Back side Front side	10 10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	23095/707.5 23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 Body w 23095/707.5 23095/707.5 Hots 23095/707.5	1:1 1:1 Head T 1:1 worn Test 1:1 1:1 yorn Test of 1:1 1:1 spot Test of 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 lata(Separ 0.216 0.266 ata(Separ 0.375	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02 0.01 ate 10mm 0.03	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22 24.22 1RB) 24.17	24.70 24.70 25.70 25.70 24.70 24.70	1.117 1.114 1.114 1.114 1.117 1.117	0.115 0.840 0.267 0.329 0.241 0.297	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Right tilted Left cheek Front side Back side Front side Back side Front side Back side Left side	10 10 10 10 10 10 10	QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	23095/707.5 23095/707.5 Body 23095/707.5 23095/707.5 23095/707.5 23095/707.5 Hots 23095/707.5 23095/707.5 23095/707.5 23095/707.5 23095/707.5	1:1 Head T 1:1 worn Test 1:1 1:1 yorn Test of 1:1 1:1 spot Test of 1:1 1:1 1:1	0.519 0.103 est Data(1 0.754 data(Sepa 0.240 0.295 lata(Separ 0.216 0.266 ata(Separ 0.375 0.512 0.827 0.775	0.17 0.18 00%RB) 0.01 arate 15mr 0.03 0.07 ate 15mm 0.02 0.01 ate 10mm 0.03 0.03	24.22 24.23 n 1RB) 25.23 25.23 50%RB) 24.22 24.22 1RB) 24.17 24.17 24.17	24.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 24.70	1.117 1.114 1.114 1.117 1.117 1.130 1.130 1.130	0.115 0.840 0.267 0.329 0.241 0.297 0.424 0.578 0.934	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.



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	Back side	10	QPSK 25_0	23095/707.5	1:1	0.549	0.04	24.12	24.70	1.143	0.627	22.2
ſ	Left side	10	QPSK 25_0	23095/707.5	1:1	0.807	0.02	24.12	24.70	1.143	0.922	22.2

Table 20: SAR of LTE Band 12 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	, ,,	SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	23095/707.5	0.857	0.803	1.067	N/A	N/A
Left side	23095/707.5	0.827	0.775	1.067	N/A	N/A

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.2.5 SAR Result of LTE Band 26

					Ant0 Test						
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Н	ead Test D					(W/Kg)	
Left cheek	15	QPSK 1 0	26865/831.5	1:1	0.232	0.09	24.66	25.70	1.271	0.295	22.4
Left tilted	15	QPSK 1 0	26865/831.5	1:1	0.100	0.05	24.66	25.70	1.271	0.127	22.4
Right cheek	15	QPSK 1 0	26865/831.5	1:1	0.237	0.07	24.66	25.70	1.271	0.301	22.4
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.114	0.16	24.66	25.70	1.271	0.145	22.4
g.i.c tii.coa		<u> </u>			ad Test Da			20.70		00	
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.180	0.17	23.87	24.70	1.211	0.218	22.4
Left tilted	15	QPSK 36 0	26865/831.5	1:1	0.081	0.03	23.87	24.70	1.211	0.098	22.4
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.191	0.12	23.87	24.70	1.211	0.231	22.4
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.091	0.18	23.87	24.70	1.211	0.110	22.4
		_	Boo	dy worn T	est data(S	Separate 1	5mm 1RB)			•	•
Front side	15	QPSK 1_0	26865/831.5	1:1	0.300	0.09	24.66	25.70	1.271	0.381	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.356	0.02	24.66	25.70	1.271	0.452	22.4
			Body	worn Te	st data(Se	parate 15	mm 50%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.241	0.08	23.87	24.70	1.211	0.292	22.4
Back side	15	QPSK 36_0	26865/831.5	1:1	0.275	0.05	23.87	24.70	1.211	0.333	22.4
			Ho	tspot Te	st data(Se	parate 10					
Front side	15	QPSK 1_0	26865/831.5	1:1	0.509	0.06	24.66	25.70	1.271	0.647	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.566	-0.03	24.66	25.70	1.271	0.719	22.4
Right side	15	QPSK 1_0	26865/831.5	1:1	0.312	0.05	24.66	25.70	1.271	0.396	22.4
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.272	0.03	24.66	25.70	1.271	0.346	22.4
				spot Test	data(Sepa	arate 10m	ım 50%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.418	0.08	23.87	24.70	1.211	0.506	22.4
Back side	15	QPSK 36_0	26865/831.5	1:1	0.466	0.00	23.87	24.70	1.211	0.564	22.4
Right side	15	QPSK 36_0	26865/831.5	1:1	0.252	0.01	23.87	24.70	1.211	0.305	22.4
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.223	0.08	23.87	24.70	1.211	0.270	22.4
					Ant1 Test	Record					
Test position	BW.	Test mode	Test ch./Freq.	Duty	SAR (W/kg)	Power drift	Conducted	Tune up	Scaled	Scaled SAR 1-g	Liquid
rest position	DVV.	i est illoue	rest cii./rieq.	Cycle	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
										(W/Kg)	
Left cheek	15			H	ean resir)ata(1RR)					
Left tilted		OPSK 1 0	26865/831.5			Data(1RB)	22.34	22 70	1 086	0.785	22.4
		QPSK 1_0	26865/831.5 26865/831.5	1:1	0.723	0.12	22.34	22.70	1.086	0.785	22.4
	15	QPSK 1_0	26865/831.5	1:1 1:1	0.723 0.097	0.12 0.07	22.34	22.70	1.086	0.106	22.4
Right cheek	15 15	QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5	1:1 1:1 1:1	0.723 0.097 0.567	0.12 0.07 0.08	22.34 22.34	22.70 22.70	1.086 1.086	0.106 0.616	22.4 22.4
	15	QPSK 1_0	26865/831.5	1:1 1:1 1:1 1:1	0.723 0.097 0.567 0.191	0.12 0.07 0.08 0.06	22.34 22.34 22.34	22.70	1.086	0.106	22.4
Right cheek Right tilted	15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea	0.723 0.097 0.567 0.191 ad Test Da	0.12 0.07 0.08 0.06 tta(50%RI	22.34 22.34 22.34 B)	22.70 22.70 22.70	1.086 1.086 1.086	0.106 0.616 0.208	22.4 22.4 22.4
Right cheek Right tilted Left cheek	15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742	0.12 0.07 0.08 0.06 tta(50%RI 0.13	22.34 22.34 22.34 3) 22.21	22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119	0.106 0.616 0.208 0.831	22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted	15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098	0.12 0.07 0.08 0.06 ta(50%RI 0.13 -0.06	22.34 22.34 22.34 3) 22.21 22.21	22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119	0.106 0.616 0.208 0.831 0.109	22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek	15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20	22.34 22.34 22.34 3) 22.21 22.21 22.21	22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637	22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted	15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098	0.12 0.07 0.08 0.06 tta(50%Rl 0.13 -0.06 0.20 0.01	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21	22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119	0.106 0.616 0.208 0.831 0.109	22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek	15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267	0.12 0.07 0.08 0.06 tta(50%Rl 0.13 -0.06 0.20 0.01	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21	22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637	22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted	15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 1:1 Hea	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21 B)	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637 0.299	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek	15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 1:1 Hea	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21 B) 21.94	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637 0.299	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted	15 15 15 15 15 15 15 15	QPSK 1 0 QPSK 1 0 QPSK 36 0 QPSK 36 0 QPSK 36 0 QPSK 36 0 QPSK 36 0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 Hea 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735 Test data(S	0.12 0.07 0.08 0.06 tta(50%Rl 0.13 -0.06 0.20 0.01 ta(100%Rl -0.01	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637 0.299	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right cheek Front side	15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Boo 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 Hea 1:1 dy worn T	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735 est data(S 0.431 0.610	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI -0.01 ta(200%RI 0.02 0.01	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21 B) 21.94 5mm 1RB)	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right cheek Front side	15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Boot 26865/831.5 26865/831.5 Boot Body	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 Hea 1:1 dy worn T	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735 est data(S 0.431 0.610	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI -0.01 ta(200%RI 0.02 0.01	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24 24.24	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.119	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Right cheek Right cheek Right cheek	15 15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Body	1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 Hea 1:1 dy worn T 1:1 worn Te	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 est data(Se 0.431 0.610 st data(Se	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI -0.01 6eparate 1 0.02 0.09 parate 15	22.34 22.34 22.34 3) 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24 24.24 mm 50%RB)	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.119 1.1112 1.112	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Right cheek Front side Back side	15 15 15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Body 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 Hea 1:1 Hea 1:1 worn Te 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735 est data(Se 0.337	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI -0.01 Separate 15 0.02 0.09 parate 15 0.01 -0.04	22.34 22.34 3) 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24 24.24 mm 50%RB) 23.55 23.55	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.1119 1.112 1.112 1.1303	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Right cheek Front side Back side	15 15 15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Body 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 Hea 1:1 Hea 1:1 worn Te 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 est data(Se 0.431 0.610 st data(Se 0.337 0.377	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI -0.01 Separate 15 0.02 0.09 parate 15 0.01 -0.04	22.34 22.34 3) 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24 24.24 mm 50%RB) 23.55 23.55	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.1119 1.112 1.112 1.1303	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Right cheek Front side Back side Front side Back side	15 15 15 15 15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Body 26865/831.5 Body 26865/831.5 Body 26865/831.5	1:1 1:1 1:1 1:1 Hea 1:1 1:1 Hea 1:1 Hea 1:1 dy worn T 1:1 worn Te 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Dat 0.735 est data(Se 0.431 0.610 st data(Se 0.337 0.377 st data(Se	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%RI -0.01 Separate 1 0.02 0.09 parate 15 0.01 -0.04 parate 10	22.34 22.34 3) 22.21 22.21 22.21 22.21 22.21 B) 21.94 5mm 1RB) 24.24 24.24 mm 50%RB) 23.55 23.55 mm 1RB)	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70 24.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.112 1.112 1.303 1.303	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Front side Back side Front side Back side	15 15 15 15 15 15 15 15 15 15 15 15 15	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 1_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Body 26865/831.5 46865/831.5 46865/831.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 rest data(S 0.431 0.610 st data(Se 0.337 st data(Se 0.490	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%R -0.01 Separate 1 0.02 0.09 parate 15 0.01 -0.04 parate 10 0.01	22.34 22.34 3) 22.21 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24 24.24 mm 50%RB) 23.55 23.55 mm 1RB) 22.34	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70 24.70 24.70	1.086 1.086 1.086 1.119 1.119 1.119 1.119 1.112 1.112 1.303 1.303 1.086	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678 0.439 0.439 0.491	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Front side Back side Front side Back side Front side Back side	15 15 15 15 15 15 15 15 15 15 15 15 15 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 Htt	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 est data(Se 0.431 0.610 st data(Se 0.337 st data(Se 0.490 0.482 0.887	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%R -0.01 0.02 0.09 parate 15 0.01 -0.04 parate 10 0.01 0.01 0.01 0.01	22.34 22.34 3) 22.21 22.21 22.21 22.21 22.21 8) 21.94 5mm 1RB) 24.24 24.24 mm 50%RB) 23.55 23.55 mm 1RB) 22.34	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70 24.70 24.70 22.70	1.086 1.086 1.086 1.086 1.119 1.119 1.119 1.112 1.112 1.303 1.303 1.086 1.086	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678 0.439 0.439 0.491	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Front side Back side Front side Back side Front side Back side	15 15 15 15 15 15 15 15 15 15 15 15 15 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 46865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 est data(Se 0.431 0.610 st data(Se 0.337 st data(Se 0.490 0.482 0.887	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%R -0.01 0.02 0.09 parate 15 0.01 -0.04 parate 10 0.01 0.01 0.01 0.01	22.34 22.34 22.34 B) 22.21 22.21 22.21 22.21 22.21 B) 21.94 5mm 1RB) 24.24 24.24 24.24 50%RB) 23.55 23.55 mm 1RB) 22.34 22.34 22.34	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70 24.70 24.70 22.70	1.086 1.086 1.086 1.086 1.119 1.119 1.119 1.112 1.112 1.303 1.303 1.086 1.086	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678 0.439 0.439 0.491	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Right cheek Front side Back side Front side Back side Left side Left side	15 15 15 15 15 15 15 15 15 15 15 15 15 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 4626865/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 est data(S 0.431 0.610 st data(Se 0.337 st data(Se 0.490 0.482 0.887 data(Separation data(Separation data(Separ	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%R -0.01 0.02 0.09 parate 15 0.01 -0.04 parate 10 0.01 0.11 0.05 arate 10m	22.34 22.34 22.34 B) 22.21 22.21 22.21 22.21 B) 21.94 5mm 1RB) 24.24 24.24 50%RB) 23.55 23.55 mm 1RB) 22.34 22.34 22.34 mm 50%RB)	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70 24.70 24.70 22.70 22.70	1.086 1.086 1.086 1.086 1.119 1.119 1.119 1.112 1.112 1.303 1.303 1.086 1.086	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678 0.439 0.491 0.532 0.524 0.964	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Right cheek Front side Back side Front side Back side Left side Front side	15 15 15 15 15 15 15 15 15 15 15 15 15 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 36_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 26865/831.5 462685/831.5 26865/831.5 26865/831.5 26865/831.5	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.723 0.097 0.567 0.191 ad Test Da 0.742 0.098 0.569 0.267 d Test Da 0.735 est data(Se 0.431 0.610 st data(Se 0.337 0.377 st data(Se 0.490 0.482 0.887 data(Separation of the separation of t	0.12 0.07 0.08 0.06 tta(50%RI 0.13 -0.06 0.20 0.01 ta(100%R -0.01 0.02 0.09 parate 15 0.01 -0.04 parate 10 0.01 0.01 0.01 0.01 0.01	22.34 22.34 22.34 B) 22.21 22.21 22.21 22.21 22.21 B) 21.94 5mm 1RB) 24.24 24.24 24.24 mm 50%RB) 23.55 23.55 mm 1RB) 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34	22.70 22.70 22.70 22.70 22.70 22.70 22.70 22.70 24.70 24.70 24.70 24.70 22.70 22.70 22.70	1.086 1.086 1.086 1.086 1.119 1.119 1.119 1.112 1.112 1.303 1.303 1.086 1.086 1.086	0.106 0.616 0.208 0.831 0.109 0.637 0.299 0.876 0.479 0.678 0.439 0.439 0.491 0.532 0.524 0.964	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4



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Left side repeat	15	QPSK 36_0	26865/831.5	1:1	0.926	-0.02	22.21	22.70	1.119	1.037	22.4
			Hots	pot Test	data(Sepa	rate 10mi	n 100%RB)				
Left side	15	QPSK 75_0	26865/831.5	1:1	0.889	0.03	21.98	22.70	1.180	1.049	22.4
			Product s	specific 1	0g SAR(S	eparate 0	mm)				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	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.(℃)
Left side	15	QPSK 1_0	26765/821.5	1:1	2.070	0.06	24.24	24.70	1.112	2.301	22.4
Left side	15	QPSK 36_0	26765/821.5	1:1	2.020	0.06	23.55	24.70	1.303	2.632	22.4
Left side	15	QPSK 75_0	26765/821.5	1:1	1.800	0.01	23.54	24.70	1.306	2.351	22.4

Table 21: SAR of LTE Band 26 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left side	26865/831.5	0.936	0.926	1.011	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was 🗦 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.6 SAR Result of LTE Band 41

			A	nt 0 Test I		Devers				Control	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
		•	He	ad Test Da							
Left cheek	20	QPSK 1 0	40620/2593	1:1.58	0.033	0.02	22.96	24.00	1.271	0.042	22.2
Left tilted	20	QPSK 1 0	40620/2593	1:1.58	0.015	0.05	22.96	24.00	1.271	0.018	22.2
Right cheek	20	QPSK 1 0	40620/2593	1:1.58	0.038	-0.02	22.96	24.00	1.271	0.048	22.2
Right cheek with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.035	-0.01	22.75	24.00	1.334	0.047	22.2
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.031	0.06	22.96	24.00	1.271	0.040	22.2
			Hea	d Test Data	a(50%RB)						
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.033	0.12	22.32	23.00	1.169	0.039	22.2
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.018	0.1	22.32	23.00	1.169	0.021	22.2
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.030	0	22.32	23.00	1.169	0.035	22.2
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.029	0.01	22.32	23.00	1.169	0.034	22.2
			Body worn Te	est data(Se	parate 15r	nm 1RB)					
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.081	0.04	22.96	24.00	1.271	0.103	22.2
Back side	20	QPSK 1 0	40620/2593	1:1.58	0.099	0.03	22.96	24.00	1.271	0.126	22.2
Back side with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.081	-0.02	22.75	24.00	1.334	0.108	22.2
		1	Body worn Tes								
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.064	0.05	22.32	23.00	1.169	0.075	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.089	0.05	22.32	23.00	1.169	0.104	22.2
			Hotspot Tes	t data(Sep	arate 10mr	n 1RB)					
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.142	0.02	22.96	24.00	1.271	0.180	22.2
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.210	0.05	22.96	24.00	1.271	0.267	22.2
Back side with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.189	-0.01	22.75	24.00	1.334	0.252	22.2
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.116	0.04	22.96	24.00	1.271	0.147	22.2
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.180	0.1	22.96	24.00	1.271	0.229	22.2
			Hotspot Test			50%RB)					
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.127	0.06	22.32	23.00	1.169	0.149	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.185	0.09	22.32	23.00	1.169	0.216	22.2
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.096	0.06	22.32	23.00	1.169	0.113	22.2
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.152	0.02	22.32	23.00	1.169	0.178	22.2
		•	A	nt 2 Test I							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
								,			
					1-g	(dB)				(W/kg)	- 1 (-)
				ad Test Da	ta(1RB)						,
Left cheek	20	QPSK 1_0	He 40620/2593	ad Test Da		0.09	24.50	25.70	1.318	0.152	22.2
Left cheek Left cheek with LTE B38 Intra-band CA	20	QPSK 1_0			ta(1RB)		24.50 25.16	25.70 25.70	1.318 1.132		,
Left cheek with LTE			40620/2593	1:1.58	o.115	0.09				0.152	22.2
Left cheek with LTE B38 Intra-band CA	20	QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9	1:1.58 1:1.58	0.115 0.108	0.09	25.16	25.70	1.132	0.152 0.122	22.2
Left cheek with LTE B38 Intra-band CA Left tilted	20 20	QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593	1:1.58 1:1.58 1:1.58	0.115 0.108 0.015	0.09 -0.02 0.06	25.16 24.50	25.70 25.70	1.132 1.318	0.152 0.122 0.020	22.2 22.2 22.2
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050	0.09 -0.02 0.06 0.03	25.16 24.50 24.50	25.70 25.70 25.70	1.132 1.318 1.318	0.152 0.122 0.020 0.066	22.2 22.2 22.2 22.2 22.2
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032	0.09 -0.02 0.06 0.03	25.16 24.50 24.50	25.70 25.70 25.70	1.132 1.318 1.318	0.152 0.122 0.020 0.066	22.2 22.2 22.2 22.2 22.2
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted	20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 Hea	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data	0.115 0.108 0.015 0.050 0.032 a(50%RB)	0.09 -0.02 0.06 0.03 0.14	25.16 24.50 24.50 24.50	25.70 25.70 25.70 25.70	1.132 1.318 1.318 1.318	0.152 0.122 0.020 0.066 0.043	22.2 22.2 22.2 22.2 22.2
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Hear 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118	0.09 -0.02 0.06 0.03 0.14	25.16 24.50 24.50 24.50 24.05	25.70 25.70 25.70 25.70 24.70	1.132 1.318 1.318 1.318 1.161	0.152 0.122 0.020 0.066 0.043	22.2 22.2 22.2 22.2 22.2 22.2
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Hea 40620/2593 40620/2593 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13	25.16 24.50 24.50 24.50 24.05 24.05	25.70 25.70 25.70 25.70 24.70 24.70	1.132 1.318 1.318 1.318 1.161 1.161	0.152 0.122 0.020 0.066 0.043 0.137 0.018	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 Heat 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Te	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB)	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Front side	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Hear 40620/2593 40620/2593 40620/2593 Body worn Te	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB) 0.01	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.161 1.318	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side	20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 Heat 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Te	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB)	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Front side	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Hear 40620/2593 40620/2593 40620/2593 Body worn Te	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB) 0.01	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.161 1.318	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Fight tilted Front side Back side Back side	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Head 40620/2593 40620/2593 40620/2593 Body worn Telescopy 1000 1000 1000 1000 1000 1000 1000 10	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	10.115 0.115 0.108 0.015 0.050 0.032 0.032 0.015 0.015 0.015 0.052 0.031 parate 15r 0.143 0.158 0.149	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 nm 1RB) 0.01 0.05 0.09	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05 24.50 24.50 25.16	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70 25.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.318 1.318	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Fight tilted Front side Back side Back side	20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Hear 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Tear 40620/2593 40620/2593 37901+38099/2585.1+2604.9	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	10.115 0.115 0.108 0.015 0.050 0.032 0.032 0.015 0.015 0.015 0.052 0.031 parate 15r 0.143 0.158 0.149	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 nm 1RB) 0.01 0.05 0.09	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05 24.50 24.50 25.16	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70 25.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.318 1.318	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side Back side with LTE B38 Intra-band CA	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 Heat 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Te 40620/2593 37901+38099/2585.1+2604.9 Body worn Tes	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	10.115 0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r 0.143 0.158 0.149 arate 15m	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 nm 1RB) 0.01 0.05 0.09 m 50%RB	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05 24.50 24.50 25.16	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70 25.70 25.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.318 1.318 1.318	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036 0.189 0.208	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side Back side with LTE B38 Intra-band CA	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Telescopy with the second	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r 0.143 0.158 0.149 arate 15m 0.150 0.163	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB) 0.01 0.05 0.09 m 50%RB 0.06 0.19	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.50 24.50 25.16	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70 25.70 25.70 24.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.318 1.318 1.318 1.132	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036 0.189 0.208 0.169	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side Back side with LTE B38 Intra-band CA	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Teleston State	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 d Test Data 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r 0.143 0.158 0.149 arate 15m 0.150 0.163	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB) 0.01 0.05 0.09 m 50%RB 0.06 0.19	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.50 24.50 25.16	25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70 25.70 25.70 24.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.318 1.318 1.318 1.132	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036 0.189 0.208 0.169	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Front side Back side Back side with LTE B38 Intra-band CA Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 37901+38099/2585.1+2604.9 Body worn Tes 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	10.150 0.163 0.150 0.115 0.108 0.015 0.050 0.032 0.032 0.0118 0.015 0.052 0.031 0.143 0.158 0.149 0.163 0.163 0.258	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB) 0.01 0.05 0.09 m 50%RB 0.06 0.19 m 1RB) 0.12	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05 24.05 24.50 25.16 24.05 24.05	25.70 25.70 25.70 25.70 24.70 24.70 24.70 25.70 25.70 25.70 24.70 24.70 21.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.161 1.318 1.318 1.132 1.161 1.161	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036 0.189 0.208 0.169 0.174 0.189	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek with LTE B38 Intra-band CA Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Front side Back side Back side with LTE B38 Intra-band CA Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	40620/2593 37901+38099/2585.1+2604.9 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 40620/2593 Body worn Te 40620/2593 37901+38099/2585.1+2604.9 Body worn Tes 40620/2593 Hotspot Tes	1:1.58 1:1.58	ta(1RB) 0.115 0.108 0.015 0.050 0.032 a(50%RB) 0.118 0.015 0.052 0.031 parate 15r 0.143 0.158 0.149 arate 15mi 0.150 0.163 arate 10mr	0.09 -0.02 0.06 0.03 0.14 0.06 0.04 0.03 0.13 mm 1RB) 0.01 0.05 0.09 m 50%RB) 0.06 0.19 m 1RB)	25.16 24.50 24.50 24.50 24.05 24.05 24.05 24.05 24.05 24.50 25.16	25.70 25.70 25.70 25.70 24.70 24.70 24.70 25.70 25.70 25.70 24.70 24.70	1.132 1.318 1.318 1.318 1.161 1.161 1.161 1.318 1.318 1.32 1.161 1.161	0.152 0.122 0.020 0.066 0.043 0.137 0.018 0.061 0.036 0.189 0.208 0.169	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.



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						Pag	e:	90 of 12 ⁻	l		
			Hotspot Test	data(Separ	ate 10mm	50%RB)					
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.269	0.11	20.45	21.70	1.334	0.359	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.303	0.14	20.45	21.70	1.334	0.404	22.2
Back side with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.285	0.01	20.66	21.20	1.132	0.323	22.2
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.092	0.08	20.45	21.70	1.334	0.122	22.2
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.267	0.08	20.45	21.70	1.334	0.356	22.2
			A	nt 3 Test I							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				ad Test Da	ata(1RB)						
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.076	0.04	17.09	17.20	1.026	0.078	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.041	0.13	17.09	17.20	1.026	0.042	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.335	0.07	17.09	17.20	1.026	0.344	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.173	0.04	17.09	17.20	1.026	0.177	22.5
		T		d Test Data							
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.074	0.01	17.04	17.20	1.038	0.077	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.042	0.06	17.04	17.20	1.038	0.043	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.337	0.04	17.04	17.20	1.038	0.350	22.5
Right cheek with LTE B38 Intra-band CA	20	QPSK 50_0	40620/2593	1:1.58	0.303	0.04	17.04	17.20	1.038	0.314	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.192	0.11	17.04	17.20	1.038	0.199	22.5
		T = = =	Body worn Te				1				
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.278	0.04	22.91	23.20	1.069	0.297	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.441	0.07	22.91	23.20	1.069	0.471	22.5
	1	000/50 0	Body worn Tes					22.22			20.5
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.267	0.01	22.84	23.20	1.086	0.290	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.501	0.05	22.84	23.20	1.086	0.544	22.5
Back side with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.450	-0.01	22.85	23.20	1.084	0.488	22.5
			Hotspot Tes								
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.245	0.011	17.09	17.20	1.026	0.251	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.524	0.04	17.09	17.20	1.026	0.537	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.487	0.04	17.09	17.20	1.026	0.499	22.5
Front olde	20	QPSK 50 0	Hotspot Test				17.05	17.20	1.035	0.251	22.5
Front side Back side	20	QPSK 50_0	40620/2593 40620/2593	1:1.58	0.242 0.530	0.12	17.05 17.05	17.20		0.251	
Back side with LTE	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.503	0.04	17.03	17.20	1.035	0.549	22.5 22.5
B38 Intra-band CA Left side	20	QPSK 50_0	40620/2593	1:1.58	0.493	0.02	17.04	17.20	1.038	0.512	22.5
			A	nt 5 Test I							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
				-	1-g	(dB)			1	(W/kg)	
1.6.1.1	00	00014.0		ad Test Da		0.04	10.15	47.50	4.005	0.055	00.5
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.260	0.04	16.15	17.50	1.365	0.355	22.5
Left tilted Right cheek	20	QPSK 1_0 QPSK 1_0	40620/2593 40620/2593	1:1.58 1:1.58	0.206 0.273	0.05 0.13	16.15 16.15	17.50 17.50	1.365 1.365	0.281	22.5 22.5
	20									0.373	
Right tilted	20	QPSK 1_0	40620/2593 Hea	1:1.58 d Test Data	0.323 (50%RR)	0.1	16.15	17.50	1.365	U.44 I	22.5
Left cheek	20	QPSK 50 0	40620/2593	1:1.58	0.204	0.11	15.82	17.50	1.472	0.300	22.5
Left tilted		QPSK 50_0	40620/2593	1:1.58	0.204	0.11	15.82	17.50	1.472	0.284	22.5
Right cheek		QPSK 50_0	40620/2593	1:1.58	0.133	0.08	15.82	17.50	1.472	0.264	22.5
Right cheek with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.386	0.01	16.58	17.50	1.236	0.477	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.367	0.04	15.82	17.50	1.472	0.540	22.5
			Body worn Te	est data(Se	parate 15r	nm 1RB)					
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.322	0.02	24.21	25.50	1.346	0.433	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.404	0.08	24.21	25.50	1.346	0.544	22.5
Back side with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.383	-0.02	24.33	25.50	1.309	0.501	22.5
			Body worn Tes	t data(Sep	arate 15m	m 50%RB)				
Front side		QPSK 50_0	40620/2593	1:1.58	0.263	0.01	23.42	24.50	1.282	0.337	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.363	0.02	23.42	24.50	1.282	0.465	22.5
		,	Hotspot Tes								
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.093	0.02	16.15	17.50	1.365	0.127	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.295	0.06	16.15	17.50	1.365	0.403	22.5



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Left side	20	QPSK 1_0	40620/2593	1:1.58	0.179	0.06	16.15	17.50	1.365	0.244	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.268	-0.04	16.15	17.50	1.365	0.366	22.5
			Hotspot Test of	data(Separ	ate 10mm	50%RB)					
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.096	0.04	15.82	17.50	1.472	0.141	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.304	0.06	15.82	17.50	1.472	0.448	22.5
Back side with LTE B38 Intra-band CA	20	QPSK 1_0	37901+38099/2585.1+2604.9	1:1.58	0.288	0.01	16.58	17.50	1.236	0.356	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.183	0.12	17.32	19.00	1.472	0.269	22.5
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.271	-0.03	17.32	19.00	1.472	0.399	22.5

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

Note: LTE B38 Intra-band U-L CA test at the worst case of LTE B41.



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8.2.7 SAR Result of 5G NR n5

					Ant0 Test	Hecord				
Test position	BW.	Modulation	Test ch./Freq.	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Test d	_ `	•	ı	T	
Left cheek	20	QPSK 1_1	167300/836.5	0.271	0.06	24.71	25.50	1.199	0.325	22.1
Left tilted	20	QPSK 1_1	167300/836.5	0.128	0.03	24.71	25.50	1.199	0.154	22.1
Right cheek	20	QPSK 1_1	167300/836.5	0.247	0.08	24.71	25.50	1.199	0.296	22.1
Right tilted	20	QPSK 1_1	167300/836.5	0.125	0.14 ead Test da	24.71	25.50	1.199	0.150	22.1
Left cheek	20	OPSK 50, 28	167300/836.5	0.191	0.07	24.71	25.50	1.199	0.229	22.1
Left tilted			167300/836.5	0.191	0.07	24.71	25.50	1.199	0.100	22.1
Right cheek			167300/836.5	0.179	0.05	24.71	25.50	1.199	0.215	22.1
Right tilted			167300/836.5	0.096	0.09	24.71	25.50	1.199	0.115	22.1
riight tiited	20	Q1 01(00_20	1070007000.01			Separate 15mm		1.100	0.110	<i>LL</i> . 1
Front side	20	QPSK 1 1	167300/836.5	0.263	0.06	24.71	25.50	1.199	0.315	22.1
Back side	20	QPSK 1_1	167300/836.5	0.286	-0.01	24.71	25.50	1.199	0.343	22.1
					1	parate 15mm 50			1	
Front side	20	QPSK 50_28	167300/836.5	0.261	0.08	24.39	25.50	1.291	0.337	22.1
Back side	20	QPSK 50_28	167300/836.5	0.274	0.03	24.39	25.50	1.291	0.354	22.1
					est data(Se	parate 10mm 1f	RB)			
Front side	20	QPSK 1_1	167300/836.5	0.411	0.07	23.42	24.00	1.143	0.470	22.1
Back side	20	QPSK 1_1	167300/836.5	0.480	0.01	23.42	24.00	1.143	0.549	22.1
Right side	20	QPSK 1_1	167300/836.5	0.244	0.03	23.42	24.00	1.143	0.279	22.1
Bottom side	20	QPSK 1_1	167300/836.5	0.215	0.04	23.42	24.00	1.143	0.246	22.1
		T				arate 10mm 50°		1		
Front side			167300/836.5	0.431	0.10	23.35	24.00	1.161	0.501	22.1
Back side			167300/836.5	0.467	-0.01	23.35	24.00	1.161	0.542	22.1
Right side			167300/836.5	0.254	0.09	23.35	24.00	1.161	0.295	22.1
Bottom side	20	QPSK 50_28	167300/836.5	0.227	0.02	23.35	24.00	1.161	0.264	22.1
				SAR	Ant1 Test	Record			Castad CAD	
Test position	BW.	Modulation	Test ch./Freq.	(W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Test d	lata(1RB)			(W/Kg)	
Left cheek	20	QPSK 1_1	167300/836.5	0.300	-0.13	18.27	19.20	1.239	0.372	22.1
Left tilted	20	QPSK 1 1	167300/836.5	0.045	0.05	18.27	19.20	1.239	0.056	22.1
Right cheek	20	QPSK 1 1	167300/836.5	0.200	-0.16	18.27	19.20	1.239	0.248	22.1
Right tilted	20	QPSK 1_1	167300/836.5	0.036	0.15	18.27	19.20	1.239	0.045	22.1
				He	ead Test da	ta(50%RB)				
Left cheek			167300/836.5	0.263	-0.01	17.54	19.20	1.466	0.385	22.1
Left tilted			167300/836.5	0.039	0.10	17.54	19.20	1.466	0.058	22.1
Right cheek			167300/836.5	0.181	0.02	17.54	19.20	1.466	0.265	22.1
Right tilted	20	QPSK 50_28	167300/836.5	0.032	0.08	17.54	19.20	1.466	0.046	22.1
						eparate 15mm		,		
Front side			167300/836.5	0.233	0.10	21.87	22.70	1.211	0.282	22.1
Back side	20	QPSK 1_1	167300/836.5	0.266	-0.07	21.87	22.70	1.211	0.322	22.1
		0001/ 50 55				parate 15mm 50				
Front side			167300/836.5	0.210	0.10	21.05	22.70	1.462	0.307	22.1
Back side	20	<u>QPSK 50_28</u>	167300/836.5	0.244	-0.04	21.05	22.70	1.462	0.357	22.1
Eropt aida	20	OBCK 1 1			(Separate 1	, , , , , , , , , , , , , , , , , , , ,	10.00	1.000	0.000	20.1
Front side	20	QPSK 1_1	167300/836.5	0.186	0.07	18.27	19.20	1.239	0.230	22.1
Back side	20	QPSK 1_1	167300/836.5	0.221	0.13	18.27	19.20	1.239	0.274	22.1
Left side	20	QPSK 1_1	167300/836.5	0.311	0.10	18.27 arate 10mm 50°	19.20	1.239	0.385	22.1
				LIUISDOL LES	ง บลเล เวยที่		/or1D)			
Eront side	20	OBCK EU OO						1 // 66	0.256	20.1
Front side			167300/836.5	0.175	0.02	17.54	19.20	1.466	0.256	22.1
Front side Back side Left side	20	QPSK 50_28						1.466 1.466 1.466	0.256 0.261 0.421	22.1 22.1 22.1

Table 23: SAR of 5G NR n5 for Head and Body.



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8.2.1 SAR Result of 5G NR n7

					Test Reco	ra	l		0 1 1040	
Test position	BW.	Modulation	Test ch./Freq.	SAR (W/kg)	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃
				1-g	Test data(1	DR)			(W/kg)	
Left cheek	40	QPSK 1 1	507000/2535	0.040	0.04	22.96	24.00	1.271	0.050	22.4
Left tilted	40	QPSK 1_1	507000/2535	0.040	0.04	22.96	24.00	1.271	0.030	22.4
Right cheek	40	QPSK 1 1	507000/2535	0.033	0.01	22.96	24.00	1.271	0.159	22.4
Right tilted	40	QPSK 1_1	507000/2535	0.020	0.09	22.96	24.00	1.271	0.139	22.4
riigiit tiiteu	40	QI SK I_I	307000/2333		est data(50°		24.00	1.2/1	0.023	22.4
Left cheek	40	QPSK 108 54	507000/2535	0.034	0.11	22.78	24.00	1.324	0.045	22.4
Left tilted	40	QPSK 108_54		0.052	0.11	22.78	24.00	1.324	0.043	22.4
Right cheek	40	QPSK 108_54		0.032	0.04	22.78	24.00	1.324	0.003	22.4
Right tilted	40	QPSK 108_54		0.070	0.04	22.78	24.00	1.324	0.093	22.4
riigiit tiited	40	Q1 31 100_34				ate 15mm 1RB)	24.00	1.524	0.027	22.4
Front side	40	QPSK 1 1	507000/2535	0.083	0.02	22.96	24.00	1.271	0.105	22.4
	40	QPSK 1_1	507000/2535	0.063	0.02	22.96	24.00	1.271	0.103	22.4
Back side	40	QFSK I_I				22.96 e 15mm 50%RE		1.2/1	0.107	22.4
Frank alda	40	QPSK 108 54			-0.05	22.78		1.324	0.080	22.4
Front side				0.060			24.00			
Back side	40	QPSK 108_54		0.085	-0.06	22.78	24.00	1.324	0.113	22.4
Front side	40	ODCK 1 1				20 20	01.50	1 004	0.140	00.4
Front side	40	QPSK 1_1	507000/2535	0.108	0.02	20.38	21.50	1.294	0.140	22.4
Back side	40	QPSK 1_1	507000/2535	0.281	0.05	20.38	21.50	1.294	0.364	22.4
Right side	40	QPSK 1_1	507000/2535	0.135	0.01	20.38	21.50	1.294	0.175	22.4
Bottom side	40	QPSK 1_1	507000/2535	0.132	0.01	20.38	21.50	1.294	0.171	22.4
		longu :				10mm 50%RB)	n		1 1	
Front side	40	QPSK 108_54		0.117	0.02	20.21	21.50	1.346	0.157	22.4
Back side	40	QPSK 108_54		0.163	0.05	20.21	21.50	1.346	0.219	22.4
Right side		QPSK 108_54		0.136	0.04	20.21	21.50	1.346	0.183	22.4
Bottom side	40	QPSK 108_54	507000/2535	0.136	0.01	20.21	21.50	1.346	0.183	22.4
					Test Reco	rd				
				SAR	Power	Conducted	Tune up	Scaled	Scaled SAR	Liquid
Test position	BW.	Modulation	Test ch./Freq.	(W/kg)	drift	Power(dBm)	Limit(dBm)	factor	1-g	Temp.(%
				1-g	(dB)	, ,			(W/kg)	
					Test data(1		1			
Left cheek	40	QPSK 1_1	507000/2535	0.201	0.07	24.56	25.50	1.242	0.250	22.4
Left tilted	40	QPSK 1_1	507000/2535	0.070	0.02	24.56	25.50	1.242	0.087	22.4
Right cheek	40	QPSK 1_1	507000/2535	0.134	0.02	24.56	25.50	1.242	0.166	22.4
Right tilted	40	QPSK 1_1	507000/2535	0.052	0.05	24.56	25.50	1.242	0.065	22.4
					est data(50°	%RB)				
Left cheek	40	QPSK 108_54		0.224	0.05	24.45	25.50	1.274	0.285	22.4
Left tilted	40	QPSK 108_54		0.070	0.01	24.45	25.50	1.274	0.089	22.4
Right cheek	40	QPSK 108_54	507000/2535	0.155	0.04	24.45	25.50	1.274	0.197	22.4
Right tilted	40	QPSK 108_54		0.061	0.01	24.45	25.50	1.274	0.077	22.4
				worn Test of	data(Separa	ite 15mm 1RB)				
Front side	40	QPSK 1_1	507000/2535	0.252	0.06	24.56	25.50	1.242	0.313	22.4
Back side	40	QPSK 1_1	507000/2535	0.277	-0.03	24.56	25.50	1.242	0.344	22.4
			Body w	orn Test da	ta(Separate	15mm 50%RE	3)			
Front side			507000/2535	0.291	0.08	24.45	25.50	1.274	0.371	22.4
Back side		QPSK 108_54		0.271	-0.07	24.45	25.50	1.274	0.345	22.4
	•		Hots			e 10mm 1RB)			•	
Front side	40	QPSK 1_1	507000/2535	0.384	0.05	20.01	21.00	1.256	0.482	22.4
Back side	40	QPSK 1 1	507000/2535	0.448	-0.01	20.01	21.00	1.256	0.563	22.4
Left side	40	QPSK 1_1	507000/2535	0.197	0.04	20.01	21.00	1.256	0.247	22.4
Bottom side	40	QPSK 1_1	507000/2535	0.465	014	20.01	21.00	1.256	0.584	22.4
		<u>, -: - : : - : </u>				10mm 50%RB)				
Front side	40	QPSK 108 54		0.400	0.06	19.88	21.00	1.294	0.518	22.4
Back side		QPSK 108_54		0.474	0.05	19.88	21.00	1.294	0.613	22.4
Left side		QPSK 108_54		0.186	0.03	19.88	21.00	1.294	0.013	22.4
		QPSK 108_54		0.486	0.04	19.88	21.00	1.294	0.629	22.4
			00100012000	0.700	V. I	10.00	21.00	1.207	0.020	∠∠.+
Bottom side	1.0			An+2	Tost Page	rd				
					Test Reco				Scaled SAP	
	BW.		Test ch./Freq.	Ant3 SAR (W/kg)	Test Reco Power drift	Conducted Power(dBm)	Tune up	Scaled factor	Scaled SAR 1-g	Liquid Temp.(°



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						Page	.	14 01 14	<u> </u>	
					Test data(1					
Left cheek	40	QPSK 1_1	507000/2535	0.134	0.05	17.43	18.70	1.340	0.180	22.3
Left tilted	40	QPSK 1_1	507000/2535	0.060	0.01	17.43	18.70	1.340	0.080	22.3
Right cheek	40	QPSK 1_1	507000/2535	0.366	0.04	17.43	18.70	1.340	0.490	22.3
Right tilted	40	QPSK 1_1	507000/2535	0.159	0.01	17.43	18.70	1.340	0.213	22.3
				Head Te	est data(50°	%RB)				
Left cheek	40	QPSK 108_54		0.183	0.01	17.12	18.70	1.439	0.263	22.3
Left tilted	40	QPSK 108_54		0.102	0.04	17.12	18.70	1.439	0.147	22.3
Right cheek	40	QPSK 108_54	507000/2535	0.504	-0.02	17.12	18.70	1.439	0.725	22.3
Right cheek with EN-DC	40	QPSK 108_54		0.504	-0.02	17.12	14.00	0.488	0.246	22.3
Right tilted	40	QPSK 108_54		0.236	0.02	17.12	18.70	1.439	0.340	22.3
					data(Separa	ate 15mm 1RB)				
Front side	40	QPSK 1_1	507000/2535	0.175	0.01	21.42	22.70	1.343	0.235	22.3
Back side	40	QPSK 1_1	507000/2535	0.337	0.07	21.42	22.70	1.343	0.453	22.3
					ta (Separate	e 15mm 50%RE				
Front side	40	QPSK 108_54		0.215	0.13	21.11	22.70	1.442	0.310	22.3
Back side	40	QPSK 108_54		0.442	0.08	21.11	22.70	1.442	0.637	22.3
Back side with EN-DC	40	QPSK 108_54		0.442	0.08	21.11	20.00	0.774	0.342	22.3
				•		e 10mm 1RB)		_		
Front side	40	QPSK 1_1	507000/2535	0.093	0.17	17.43	18.70	1.340	0.125	22.3
Back side	40	QPSK 1_1	507000/2535	0.194	0.04	17.43	18.70	1.340	0.260	22.3
Left side	40	QPSK 1_1	507000/2535	0.215	0.11	17.43	18.70	1.340	0.288	22.3
						10mm 50%RB)				
Front side	40	QPSK 108_54		0.119	0.11	17.12	18.70	1.439	0.171	22.3
Back side	40	QPSK 108_54		0.268	0.05	17.12	18.70	1.439	0.386	22.3
Left side	40	QPSK 108_54	507000/2535	0.275	0.15	17.12	18.70	1.439	0.396	22.3
					Test Reco	rd				
				SAR	Power	Conducted	Tune up	Scaled	Scaled SAR	Liquid
Test position	BW.	Modulation	Test ch./Freq.	(W/kg)	drift		Limit(dBm)	factor	1-g	Temp.(℃)
					/AD\	Fower (abili)	Lilling (abin)	idotoi	/\\//\cm\	remp.(C)
				1-g	(dB)	, ,	Lillit(abili)	luctor	(W/kg)	remp.(c)
L oft chook	40	OPSK 1 1	507000/2535	Head	Test data(1	RB)				-
Left cheek	40	QPSK 1_1	507000/2535	Head 0.303	Test data(1 0.12	RB) 17.22	18.50	1.343	0.407	22.3
Left tilted	40	QPSK 1_1	507000/2535	Head 0.303 0.324	Test data(1 0.12 0.13	RB) 17.22 17.22	18.50 18.50	1.343 1.343	0.407 0.435	22.3 22.3
Left tilted Right cheek	40 40	QPSK 1_1 QPSK 1_1	507000/2535 507000/2535	Head 0.303 0.324 0.608	Test data(1 0.12 0.13 -0.02	RB) 17.22 17.22 17.22	18.50 18.50 18.50	1.343 1.343 1.343	0.407 0.435 0.816	22.3 22.3 22.3
Left tilted	40	QPSK 1_1	507000/2535	Head 0.303 0.324 0.608 0.480	Test data(1 0.12 0.13 -0.02 0.05	RB) 17.22 17.22 17.22 17.22	18.50 18.50	1.343 1.343	0.407 0.435	22.3 22.3
Left tilted Right cheek Right tilted	40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1	507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te	Test data(1 0.12 0.13 -0.02 0.05 est data(50°	RB) 17.22 17.22 17.22 17.22 %RB)	18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343	0.407 0.435 0.816 0.645	22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek	40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te 0.437	Test data(1 0.12 0.13 -0.02 0.05 est data(50° 0.03	RB) 17.22 17.22 17.22 17.22 %RB) 17.02	18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343	0.407 0.435 0.816 0.645	22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted	40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te 0.437 0.390	Test data(1 0.12 0.13 -0.02 0.05 est data(50° 0.03 0.02	RB) 17.22 17.22 17.22 17.22 %RB) 17.02 17.02	18.50 18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343 1.406	0.407 0.435 0.816 0.645 0.614 0.548	22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te 0.437 0.390 0.639	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.02 0.09	RB) 17.22 17.22 17.22 17.22 (ARB) 17.02 17.02 17.02	18.50 18.50 18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343 1.406 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek	40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.639	Test data(1 0.12 0.13 -0.02 0.05 est data(50° 0.03 0.02 0.09 0.09	RB) 17.22 17.22 17.22 17.22 4RB) 17.02 17.02 17.02 17.02	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.639	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.02 0.09 0.09 0.06	RB) 17.22 17.22 17.22 17.22 **RB) 17.02 17.02 17.02 17.02 17.02 17.02	18.50 18.50 18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343 1.406 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted	40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te 0.437 0.390 0.639 0.639 0.586 Head Te	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.02 0.09 0.09 0.06 st data(100	RB) 17.22 17.22 17.22 17.22 %RB) 17.02 17.02 17.02 17.02 17.02 17.02 %RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek	40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te 0.437 0.390 0.639 0.639 0.586 Head Te 0.612	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.02 0.09 0.09 0.06 st data(100 0.12	RB) 17.22 17.22 17.22 17.22 17.02 17.02 17.02 17.02 17.02 17.02 17.02 18.02	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted	40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head Te 0.437 0.390 0.639 0.639 0.586 Head Te 0.612	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.02 0.09 0.09 0.06 st data(100 0.12	RB) 17.22 17.22 17.22 17.22 %RB) 17.02 17.02 17.02 17.02 17.02 17.02 %RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek	40 40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.639 0.586 Head To 0.612	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.02 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02	17.22 17.22 17.22 17.22 76.8B) 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 48.8B)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right theek Right theek Right cheek with EN-DC Right tilted Right cheek	40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head To 0.612 worn Test (0.323 0.415	Test data(1 0.12 0.13 -0.02 0.05 est data(50° 0.03 0.02 0.09 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09	RB) 17.22 17.22 17.22 17.22 %RB) 17.02 17.02 17.02 17.02 17.02 17.02 18.61 ate 15mm 1RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side	40 40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head To 0.612 worn Test (0.323 0.415	Test data(1 0.12 0.13 -0.02 0.05 est data(50° 0.03 0.02 0.09 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09	RB) 17.22 17.22 17.22 17.22 77.02 17.02 17.02 17.02 17.02 17.02 17.02 24.29 24.29	18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side	40 40 40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 507000/2535 Body w 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test of 0.323 0.415 orn Test dat 0.314	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09 da (Separate	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 17.02 40.02 17.02 17.02 17.02 17.02 18.661 18.61 19.661 19.661 19.661 19.661 19.661 19.661 19.661 19.661 19.661 24.29 24.29 24.29 24.29 24.29 24.29 24.29 24.10	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50 25.50 25.50	1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.406 1.406 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side	40 40 40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0 QPSK 216_0	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w 507000/2535 Body w 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test of 0.323 0.415 orn Test dat 0.314 0.403	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09 da (Separate 0.01 -0.04	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 17.02 48B) 16.61 ate 15mm 1RB) 24.29 24.29 215mm 50%RB	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50 25.50 25.50	1.343 1.343 1.343 1.343 1.406 1.406 1.406 0.396 1.406 1.227	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side	40 40 40 40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 216_0 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w 507000/2535 Body w 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test of 0.323 0.415 orn Test dat 0.314 0.403	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09 da (Separate 0.01 -0.04	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 17.02 47.02 48.B) 24.29 24.29 24.29 24.10 24.10	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50 25.50 25.50	1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.406 1.406 1.406	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_08_54 QPSK 1_08_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w 507000/2535 Body w 507000/2535 Hots	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.639 0.586 Head To 0.612 worn Test to 0.323 0.415 orn Test dat 0.314 0.403 spot Test dat	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.09 0.09 0.09 0.06 st data(100 0.12 data(Separate 0.02 -0.09 ta (Separate 0.01 -0.04 ta(Separate	RB) 17.22 17.22 17.22 17.22 17.02 17.02 17.02 17.02 17.02 46.61 ate 15mm 1RB) 24.29 24.29 24.29 24.10 24.10 210mm 1RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50 25.50 25.50 25.50 25.50	1.343 1.343 1.343 1.343 1.343 1.406 1.406 0.396 1.406 1.227 1.321 1.321 1.380 1.380	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.433 0.556	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side Front side	40 40 40 40 40 40 40 40	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_08_54 QPSK 1_08_54	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w 507000/2535 Body w 507000/2535 Hote 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.639 0.586 Head Te 0.612 worn Test of 0.323 0.415 0.715 0.715 0.314 0.403 spot Test da 0.146	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.09 0.09 0.09 0.06 st data(100 0.12 data(Separate 0.02 -0.09 ta (Separate 0.01 -0.04 ta(Separate 0.09	RB) 17.22 17.22 17.22 17.22 %RB) 17.02 17.02 17.02 17.02 17.02 4.10 24.10 24.10 210mm 1RB) 15.72	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 25.50 25.50 25.50 25.50	1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.406 1.406 1.321 1.321 1.321 1.321	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.433 0.556	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side Front side Back side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_8_54 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w 507000/2535 507000/2535 Hots 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.639 0.586 Head Te 0.612 worn Test do 0.323 0.415 orn Test dat 0.314 0.403 spot Test da 0.146 0.251	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.09 0.09 0.06 est data(100 0.12 data(Separate 0.02 -0.09 ta (Separate 0.01 -0.04 tta(Separate 0.09 0.09	RB) 17.22 17.22 17.22 17.22 %RB) 17.02 17.02 17.02 17.02 17.02 4.10 24.10 21.00 10.00	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 25.50 25.50 25.50 25.50 17.00	1.343 1.343 1.343 1.343 1.343 1.406 1.406 0.396 1.406 1.227 1.321 1.321 1.380 1.380	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.556	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side Front side Left side Left side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body w 507000/2535 Body w 507000/2535 Hotes 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test da 0.314 0.403 spot Test da 0.146 0.251 0.117 0.141	Test data(1 0.12 0.13 -0.02 0.05 -est data(500 0.03 0.09 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09 ta (Separate 0.01 -0.04 ta(Separate 0.09 0.05 -0.09 0.05 -0.02	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 4.10 24.29 24.29 24.10 24.10 21.00 15.72 15.72 15.72 15.72	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 17.50 25.50 25.50 25.50 17.00 17.00 17.00	1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.227 1.321 1.321 1.380 1.380 1.343 1.343	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.556	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side Front side Left side Back side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body w 507000/2535 Body w 507000/2535 Hotsp 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test da 0.314 0.403 spot Test da 0.146 0.251 0.117 0.141	Test data(1 0.12 0.13 -0.02 0.05 -est data(500 0.03 0.09 0.09 0.09 0.06 st data(100 0.12 data(Separa 0.02 -0.09 ta (Separate 0.01 -0.04 ta(Separate 0.09 0.05 -0.09 0.05 -0.02	RB) 17.22 17.22 17.22 17.22 78.RB) 17.02 17.02 17.02 17.02 17.02 17.02 4.10 24.29 24.29 24.10 24.10 24.10 24.10 21.0	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 17.50 25.50 25.50 25.50 17.00 17.00 17.00	1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.227 1.321 1.321 1.380 1.380 1.343 1.343	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.556	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side Front side Left side Left side Top side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body 507000/2535 Body w 507000/2535 Hots 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test da 0.314 0.403 spot Test da 0.146 0.251 0.117 0.141 ot Test data	Test data(1 0.12 0.13 -0.02 0.05 -est data(500 0.03 0.02 0.09 0.09 0.06 st data(100 0.12 data(Separate 0.02 -0.09 ta (Separate 0.01 -0.04 ta(Separate 0.09 0.05 -0.02 0.002 (Separate	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 15.72 15.72 10mm 50%RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 17.50 25.50 25.50 25.50 25.50 17.00 17.00 17.00 17.00	1.343 1.343 1.343 1.343 1.343 1.343 1.406 1.406 0.396 1.406 1.227 1.321 1.321 1.380 1.380 1.343 1.343 1.343	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.556	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek with EN-DC Right tilted Right cheek Front side Back side Front side Back side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side Front side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 Body w 507000/2535 Hots 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 wom Test da 0.314 0.403 spot Test da 0.146 0.251 0.117 0.141 ot Test data 0.147	Test data(1 0.12 0.13 -0.02 0.05	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 15.61 24.29 24.29 24.10 24.10 24.10 21.5.72 15.72 15.72 10mm 50%RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50 25.50 25.50 25.50 25.50 17.00 17.00 17.00 17.00	1.343 1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.227 1.321 1.321 1.380 1.380 1.343 1.343 1.343 1.343	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.556 0.196 0.337 0.157 0.189	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right cheek Right cheek Right cheek Right cheek Front side Back side Front side Back side Left side Top side Front side Back side	40 40 40 40 40 40 40 40 40 40 40 40 40 4	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 108_54 QPSK 1_1 QPSK 1_5 QPSK 1_1 QPSK 1_5 QPSK 1_1 QPSK 1_5 QPSK 1	507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 80dy 507000/2535 507000/2535 Body w 507000/2535 Hots 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535 507000/2535	Head 0.303 0.324 0.608 0.480 Head To 0.437 0.390 0.639 0.586 Head Te 0.612 worn Test da 0.314 0.403 spot Test da 0.146 0.251 0.117 0.141 ot Test data 0.147 0.268	Test data(1 0.12 0.13 -0.02 0.05 est data(50 0.03 0.09 0.09 0.09 0.12 data(Separate 0.02 -0.09 da (Separate 0.09 0.05 color data(50 0.02 0.00 0.12 color data(50 0.02 0.02 0.02 0.09 0.05 -0.02 0.05 -0.02 0.02 (Separate 0.02	RB) 17.22 17.22 17.22 17.22 7.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 17.02 15.02 15.72 15.72 15.72 10mm 50%RB)	18.50 18.50 18.50 18.50 18.50 18.50 18.50 18.50 13.00 18.50 17.50 25.50 25.50 25.50 25.50 17.00 17.00 17.00 17.00 17.00	1.343 1.343 1.343 1.343 1.343 1.343 1.406 1.406 1.406 1.406 1.227 1.321 1.321 1.380 1.380 1.343 1.343 1.343 1.343 1.343	0.407 0.435 0.816 0.645 0.614 0.548 0.898 0.253 0.824 0.751 0.427 0.548 0.433 0.556 0.196 0.337 0.157 0.189	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3

Table 24: SAR of 5G NR n7 for Head and Body.



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8.2.2 SAR Result of 5G NR n41

				Ani	0 Test Re	cord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
					d Test data						
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.031	0.00	23.85	24.50	1.161	0.036	22.5
Left tilted	100		518598/2592.99	1:1	0.021	0.00	23.85	24.50	1.161	0.025	22.5
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.063	0.11	23.85	24.50	1.161	0.074	22.5
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.023	0.12	23.85	24.50	1.161	0.026	22.5
		0001/105 00			Test data(T = =	
Left cheek			518598/2592.99	1:1	0.039	0.04	23.61	24.50	1.227	0.048	22.5
Left tilted			518598/2592.99	1:1	0.030	0.01	23.61	24.50	1.227	0.037	22.5
Right cheek			518598/2592.99	1:1	0.067	0.00	23.61	24.50	1.227	0.083	22.5
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.018	0.05	23.61	24.50	1.227	0.022	22.5
Frant aida	100	QPSK 1 1	518598/2592.99		data(Sep			04.50	1 101	0.107	00 F
Front side	100	QPSK 1_1	518598/2592.99	1:1 1:1	0.092 0.145	0.01	23.85 23.85	24.50 24.50	1.161 1.161	0.107 0.168	22.5
Back side	100	QPSK I_I						24.50	1.101	0.168	22.5
Frant aida	100	ODCK 10E CO	518598/2592.99			0.04	n 50%RB)	04.50	1.227	0.104	00 E
Front side Back side			518598/2592.99	1:1 1:1	0.109 0.178	0.04	23.61 23.61	24.50 24.50	1.227	0.134 0.218	22.5 22.5
Dack Side	100	QF3K 133_68			lata(Separ			24.50	1.221	0.210	22.3
Front side	100	QPSK 1 1	518598/2592.99	1:1	0.186	0.01	21.32	22.00	1.169	0.218	22.5
Back side	100		518598/2592.99	1:1	0.186	0.01	21.32	22.00	1.169	0.218	22.5
Right side	100		518598/2592.99	1:1	0.290	0.04	21.32	22.00	1.169	0.339	22.5
Bottom side	100		518598/2592.99	1:1	0.141	0.03	21.32	22.00	1.169	0.163	22.5
Dollom side	100	QI SICI_I			ta (Separa			22.00	1.103	0.234	22.5
Front side	100	OPSK 135 60	518598/2592.99	1:1	0.221	0.08	21.15	22.00	1.216	0.269	22.5
Back side			518598/2592.99	1:1	0.429	0.03	21.15	22.00	1.216	0.522	22.5
Right side			518598/2592.99	1:1	0.423	0.03	21.15	22.00	1.216	0.213	22.5
Bottom side			518598/2592.99	1:1	0.252	0.11	21.15	22.00	1.216	0.306	22.5
Bottom oldo	.00	Q: 0:\ 100_00	0.0000,2002.00		1	0.11				0.000	1.0
				Ant	2 Test Re	cord					
					2 Test Re					Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Liquid Temp.(℃)
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)				SAR 1-	•
·			·	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1- g (W/kg)	Temp.(℃)
Left cheek	100	QPSK 1_1	518598/2592.99	Duty Cycle Scaled factor Head	SAR (W/kg) 1-g Test data 0.063	Power drift (dB)	Power(dBm)	19.70	factor 1.167	SAR 1- g (W/kg)	Temp.(℃) 22.5
Left cheek Left tilted	100	QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1	SAR (W/kg) 1-g d Test data 0.063 0.020	Power drift (dB) a(1RB) 0.00 0.12	19.03 19.03	19.70 19.70	1.167 1.167	SAR 1- g (W/kg) 0.073 0.023	22.5 22.5
Left cheek Left tilted Right cheek	100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1	SAR (W/kg) 1-g d Test data 0.063 0.020 0.039	Power drift (dB) a(1RB) 0.00 0.12 0.00	19.03 19.03 19.03	19.70 19.70 19.70	1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045	22.5 22.5 22.5 22.5
Left cheek Left tilted	100	QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1	SAR (W/kg) 1-g Test data 0.063 0.020 0.039 0.020	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13	19.03 19.03	19.70 19.70	1.167 1.167	SAR 1- g (W/kg) 0.073 0.023	22.5 22.5
Left cheek Left tilted Right cheek Right tilted	100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head	SAR (W/kg) 1-g Test data 0.063 0.020 0.039 0.020 Test data(s	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB)	19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023	22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek	100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head	SAR (W/kg) 1-g Test data 0.063 0.020 0.039 0.020 Test data(s	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00	19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023	22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted	100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1	SAR (W/kg) 1-g Test data 0.063 0.020 0.039 0.020 Test data(s) 0.082 0.024	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12	19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023 0.096 0.028	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1	SAR (W/kg) 1-g Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023 0.096 0.028 0.060	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1	SAR (W/kg) 1-g Test data 0.063 0.020 0.039 0.020 Test data(s) 0.082 0.024 0.051	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023 0.096 0.028	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 worn Test	SAR (W/kg) 1-g 3 Test data 0.063 0.020 0.039 0.020 Test data(0.082 0.024 0.051 0.024	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15n	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023 0.096 0.028 0.060 0.028	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Front side	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g 3 Test data 0.063 0.020 0.039 0.020 Test data(0.082 0.024 0.051 0.024 data(Sep 0.097	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15n 0.05	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023 0.096 0.028 0.060 0.028 0.0110	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 3 Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051 0.024 data(Sep 0.097 0.099	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15n 0.05 0.08	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167	SAR 1- g (W/kg) 0.073 0.023 0.045 0.023 0.096 0.028 0.060 0.028	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Front side Back side	100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body v 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 torn Test of	SAR (W/kg) 1-g 3 Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051 0.024 data(Sep 0.097 0.099	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15n 0.05 0.08	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.060 0.028	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side Front side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body w 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 worn Test 1:1 orn Test o	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 data(Separ 0.132	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15nr 0.08 rate 15mr	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.140	0.073 0.023 0.045 0.023 0.045 0.023 0.096 0.028 0.060 0.028 0.110 0.113	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right tilted Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body w 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 lata(Separ 0.132 0.133	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 ate 15mr 0.04 -0.16	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.060 0.028	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body w 518598/2592.99 Body w 518598/2592.99 518598/2592.99 Hots	Duty Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 corn Test of 1:1 pot Test of	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 data(Separ 0.132 0.133 data(Separ	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 rate 15mr 0.04 -0.16 rate 10mr	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.140 1.143 1.143	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.060 0.028 0.110 0.113	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body w 518598/2592.99 Body w 518598/2592.99 518598/2592.99 Hots 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(: 0.082 0.024 0.051 0.024 data(Sepa 0.132 0.133 data(Separ 0.191	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 rate 15mr 0.04 -0.16 rate 10mr 0.15	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.140 1.143 1.143	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.060 0.028 0.110 0.113 0.151 0.152	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 Body w 518598/2592.99 Body w 518598/2592.99 518598/2592.99 Hots 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 lata(Separ 0.132 0.133 lata(Separ 0.191	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 ate 15mr 0.04 -0.16 ate 10mr 0.15 -0.18	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 25.13 25.13 25.13 19.04 19.05 19.05 19.05	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.140 1.143 1.143 1.167	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.110 0.113 0.151 0.152	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side Front side Back side Front side Left side Left side	100 100 100 100 100 100 100 100 100 100	QPSK 1 1 QPSK 1 1 QPSK 1 1 QPSK 1 35 69 QPSK 1 1 QPSK 1 1 QPSK 1 1 QPSK 1 1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 data(Separ 0.132 0.133 data(Separ 0.191 0.193 0.084	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 ate 15mr 0.04 -0.16 ate 10mr 0.15 -0.18 0.04	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 25.13 25.13 25.13 19.04 19.05 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.143 1.143 1.143 1.167 1.167	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.110 0.113 0.151 0.152 0.223 0.225 0.098	Temp.(℃) 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Back side Front side Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1 1 QPSK 1 1 QPSK 1 1 QPSK 1 35 69 QPSK 1 1 QPSK 1 1 QPSK 1 1 QPSK 1 1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 data(Separ 0.132 0.133 data(Separ 0.191 0.193 0.084 0.176	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 rate 15mr 0.04 -0.16 ate 10mr 0.15 -0.18 0.04 0.10	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.140 1.143 1.143 1.167	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.110 0.113 0.151 0.152	Temp.(℃) 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Back side Left side Back side	100 100 100 100 100 100 100 100 100 100	QPSK 1 1 1 QPSK 1 1 1 QPSK 1 35 69 QPSK 1 35	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(sep 0.024 0.051 0.024 data(Sepa 0.097 0.099 data(Separa 0.132 0.133 data(Separa 0.191 0.193 0.084 0.176 data(Separa	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 ate 15mr 0.04 -0.16 ate 10mr 0.15 -0.18 0.04 0.10 te 10mm	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70 19.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.143 1.143 1.167 1.167	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.060 0.110 0.113 0.151 0.152 0.223 0.225 0.098 0.205	Temp.(℃) 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side Front side Back side Front side Left side Left side	100 100 100 100 100 100 100 100 100 100	QPSK 1 1 1 QPSK 1 1 1 QPSK 1 35 69 QPSK 1 35	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g 1-g 1 Test data 0.063 0.020 0.039 0.020 Test data(0.082 0.024 0.051 0.024 data(Sep 0.097 0.099 data(Separ 0.132 0.133 data(Separ 0.191 0.193 0.084 0.176	Power drift (dB) a(1RB) 0.00 0.12 0.00 -0.13 50%RB) 0.00 -0.12 0.00 0.19 arate 15mr 0.05 0.08 rate 15mr 0.04 -0.16 ate 10mr 0.15 -0.18 0.04 0.10	19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03 19.03	19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 25.70 25.70 25.70 19.70 19.70	1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.167 1.140 1.143 1.143 1.143 1.167 1.167	0.073 0.023 0.045 0.023 0.045 0.023 0.060 0.028 0.110 0.113 0.151 0.152 0.223 0.225 0.098	Temp.(℃) 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22



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Left side			9518598/2592.99	1:1	0.095	0.13	19.03	19.70	1.167	0.110	22.5
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.221	-0.03	19.03	19.70	1.167	0.258	22.5
				Ant	3 Test Re	cord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
L oft abook	100	QPSK 1 1	518598/2592.99	1:1	0.371	0.09	18.27	18.70	1.104	0.410	22.4
Left cheek Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.371	0.09	18.27	18.70	1.104	0.410	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.193	0.06	18.27	18.70	1.104	1.084	22.4
Right cheek Repea		QPSK 1_1	518598/2592.99	1:1	0.978	-0.03	18.27	18.70	1.104	1.080	22.4
Right tilted	100		518598/2592.99	1:1	0.446	0.03	18.27	18.70	1.104	0.492	22.4
rtigrit tiited	100	QI OICI_I	510000/2002.00		Test data(10.27	10.70	1.104	0.432	22.7
Left cheek	100	OPSK 135_60	9518598/2592.99	1:1	0.260	0.06	17.90	18.70	1.202	0.313	22.4
Left tilted			9518598/2592.99	1:1	0.163	0.04	17.90	18.70	1.202	0.196	22.4
Right cheek			9518598/2592.99	1:1	0.702	0.01	17.90	18.70	1.202	0.844	22.4
Right tilted			9518598/2592.99	1:1	0.489	0.02	17.90	18.70	1.202	0.588	22.4
Trigint tiltou		<u> </u>	7010000/2002:00[est data(1		17.00	10.70	1.202	0.000	
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.690	0.03	17.65	18.70	1.274	0.879	22.4
					data(Sep						
Front side	100	QPSK 1 1	518598/2592.99	1:1	0.526	-0.02	23.00	24.20	1.318	0.693	22.4
Back side	100	QPSK 1 1	518598/2592.99	1:1	0.823	0.08	23.00	24.20	1.318	1.085	22.4
Back side Repeat	100	QPSK 1_1	518598/2592.99	1:1	0.818	0.01	23.00	24.20	1.318	1.078	22.4
'			Body wo	rn Test d	ata (Sepai	ate 15mr				· I	
Front side	100	QPSK 135 69	518598/2592.99	1:1	0.476	0.02	22.91	24.20	1.346	0.641	22.4
Back side			518598/2592.99	1:1	0.668	0.01	22.91	24.20	1.346	0.899	22.4
			Body wor	n Test da	ata (Separa	ate 15mm	100%RB)				
Back side	100	QPSK 270_0	518598/2592.99	1:1	0.556	0.03	22.76	23.20	1.107	0.615	22.4
			Hots	oot Test c	data(Separ	ate 10mn	n 1RB)				
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.257	-0.12	18.27	18.70	1.104	0.284	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.484	0.03	18.27	18.70	1.104	0.534	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.502	0.01	18.27	18.70	1.104	0.554	22.4
				t Test dat	ta (Separa	te 10mm	50%RB)				
Front side			9518598/2592.99	1:1	0.242	0.05	17.90	18.70	1.202	0.291	22.4
Back side	100	QPSK 135_69	9518598/2592.99	1:1	0.467	-0.06	17.90	18.70	1.202	0.561	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.348	0.11	17.90	18.70	1.202	0.418	22.4
					5 Test Re	cord					
Test position				Duty						Scaled	
	BW.	Modulation	Test ch./Freq.	Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-	Liquid Temp.(℃)
Left cheek			•	Cycle Scaled factor Head	(W/kg) 1-g Test data	drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1- g (W/kg)	Temp.(℃
Left cheek	100	QPSK 1_1	518598/2592.99	Cycle Scaled factor Head	(W/kg) 1-g d Test data 0.283	drift (dB) a(1RB) 0.01	Power(dBm)	Limit(dBm)	factor 1.156	SAR 1- g (W/kg)	Temp.(℃)
Left tilted	100	QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1	(W/kg) 1-g Test data 0.283 0.389	drift (dB) a(1RB) 0.01 0.09	16.57 16.57	17.20 17.20	1.156 1.156	SAR 1- g (W/kg) 0.327 0.450	22.4 22.4
Left tilted Right cheek	100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1 1:1	(W/kg) 1-g Test data 0.283 0.389 0.622	drift (dB) a(1RB) 0.01 0.09 -0.01	16.57 16.57 16.57	17.20 17.20 17.20	1.156 1.156 1.156	SAR 1- g (W/kg) 0.327 0.450 0.719	22.4 22.4 22.4 22.4
Left tilted	100	QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1	(W/kg) 1-g d Test data 0.283 0.389 0.622 0.484	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02	16.57 16.57	17.20 17.20	1.156 1.156	SAR 1- g (W/kg) 0.327 0.450	22.4 22.4
Left tilted Right cheek Right tilted	100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 Head	(W/kg) 1-g 2 Test data 0.283 0.389 0.622 0.484 Test data(drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB)	16.57 16.57 16.57 16.57 16.57	17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156	SAR 1- g (W/kg) 0.327 0.450 0.719 0.560	22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek	100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1	(W/kg) 1-g 1 Test data 0.283 0.389 0.622 0.484 Test data(10.365	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03	16.57 16.57 16.57 16.57 16.57	17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156	SAR 1- g (W/kg) 0.327 0.450 0.719 0.560	22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted	100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 Head	(W/kg) 1-g 2 Test data 0.283 0.389 0.622 0.484 Test data(drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB)	16.57 16.57 16.57 16.57 16.57	17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156	SAR 1- g (W/kg) 0.327 0.450 0.719 0.560	22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1	(W/kg) 1-g 1 Test data 0.283 0.389 0.622 0.484 Test data(10.365 0.354	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05	16.57 16.57 16.57 16.57 16.57 16.22	17.20 17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156 1.253 1.253	SAR 1- g (W/kg) 0.327 0.450 0.719 0.560 0.457 0.444	22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g 3 Test data 0.283 0.389 0.622 0.484 Test data(0.365 0.354 0.580	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02	16.57 16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156 1.253 1.253 1.253	0.327 0.450 0.719 0.560 0.457 0.444 0.727	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g 1 Test data 0.283 0.389 0.622 0.484 Test data(100) 0.365 0.354 0.580 0.537	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02	16.57 16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156 1.253 1.253 1.253	0.327 0.450 0.719 0.560 0.457 0.444 0.727	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body v	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 worn Test	(W/kg) 1-g 1 Test data 0.283 0.389 0.622 0.484 Test data(0.365 0.354 0.580 0.537 data(Sep	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15n	16.57 16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 16.22 16.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body v 518598/2592.99 518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 1-g D Test data 0.283 0.389 0.622 0.484 Test data(sep 0.365 0.354 0.580 0.537 data(Sep 0.385	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15n 0.04	16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 16.22 18.22 18.22 18.22 18.22 18.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body vo 518598/2592.99 518598/2592.99 Body wo 9518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 1-g 1 Test data 0.283 0.389 0.622 0.484 Test data(: 0.365 0.354 0.580 0.537 data(Sep 0.385 0.256	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15n 0.04	16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 16.22 18.22 18.22 18.22 18.22 18.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body v 518598/2592.99 518598/2592.99 518598/2592.99 Body w	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g D Test data 0.283 0.389 0.622 0.484 Test data(: 0.365 0.354 0.580 0.537 data(Sep 0.385 0.256 data(Sepal	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15m arate 15m	16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.25 16.20 16.20 16.20 16.20 16.20	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 25.70	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253 1.169 1.169	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 1_5	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body vo 9518598/2592.99 Body wo 9518598/2592.99 Hots	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 trin Test control (1:1) 1:1 1:1	(W/kg) 1-g D Test data 0.283 0.389 0.622 0.484 Test data(: 0.365 0.354 0.580 0.537 data(Sep 0.385 0.256 data(Sepal 0.363	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15mr 0.06 0.03	16.57 16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 15.22 16.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 25.70 25.70 25.70	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253 1.253 1.169 1.169	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673 0.450 0.299	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5_69	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body vo 518598/2592.99 Body wo 9518598/2592.99 9518598/2592.99	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 trin Test control (1:1) 1:1 1:1	(W/kg) 1-g D Test data 0.283 0.389 0.622 0.484 Test data(: 0.365 0.354 0.580 0.537 data(Sep 0.385 0.256 data(Sepai 0.363 0.257	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15mr 0.06 0.03	16.57 16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 15.22 16.22	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 25.70 25.70	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253 1.253 1.169 1.169	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673 0.450 0.299	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Front side Back side Front side Back side	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5	518598/2592.99 518598/2592.99 518598/2592.99 518598/2592.99 9518598/2592.99 9518598/2592.99 9518598/2592.99 Body vo 9518598/2592.99 Body wo 9518598/2592.99 Hots	Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Description of the control of the contr	drift (dB) a(1RB) 0.01 0.09 -0.01 -0.02 50%RB) 0.03 0.05 0.02 0.09 arate 15mr 0.06 0.03 ate 15mr	16.57 16.57 16.57 16.57 16.57 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 16.22 17.02 25.02 17.02	17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 17.20 25.70 25.70 25.70	1.156 1.156 1.156 1.156 1.253 1.253 1.253 1.253 1.253 1.253 1.169 1.169	0.327 0.450 0.719 0.560 0.457 0.444 0.727 0.673 0.450 0.299	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4



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Top side	100 QPSK 1_1 518598/2592.99	1:1	0.173	0.15	16.57	17.20	1.156	0.200	22.4
	Hotspo	t Test da	ta (Separa	te 10mm	50%RB)				
Front side	100 QPSK 135_69 518598/2592.99	1:1	0.106	0.03	16.22	17.20	1.253	0.133	22.4
Back side	100 QPSK 135_69 518598/2592.99	1:1	0.172	0.05	16.22	17.20	1.253	0.216	22.4
Left side	100 QPSK 135_69 518598/2592.99	1:1	0.146	-0.02	16.22	17.20	1.253	0.183	22.4
Top side	100 QPSK 135_69 518598/2592.99	1:1	0.161	0.03	16.22	17.20	1.253	0.202	22.4

Table 25: SAR of 5G NR n41 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)]	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	518598/2592.99	0.982	0.978	1.004	N/A	N/A
Back side	518598/2592.99	0.823	0.818	1.006	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.3 SAR Result of 5G NR n77

Left tilted 100 Right cheek 100 Right tilted 100 Right tilted repeat 100 Right cheek 100 Right tilted 100 Front side 100 Back side 100 Front side 100 Back side 100 Left side 100 Top side 100 Front side 100 Top side 100 Left side 100 Left side 100 Top side 100 Top side 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_69 QPSK 1_5_69	633334/3500 633334/3500 633334/3500 633334/3500 9 633334/3500 9 633334/3500 9 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500 9 633334/3500 8 633334/3500 9 633334/3500 8 633334/3500 9 633334/3500 8 633334/3500 9 633334/3500 8 633334/3500 9 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500 8 633334/3500	Scaled factor	SAR (W/kg) 1-g ad Test data 0.350 0.474 0.647 0.784 Test data(5 0.367 0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separa 0.240 0.303 data(Separa 0.167 0.222 0.120 0.236 ata (Separa 0.153	0.02 -0.05 0.01 0.03 0%RB) 0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 wate 15mm 5 -0.04 ate 15mm 5 -0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	24.00 24.00 50%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	Tune up Limit(dBm) 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 24.50 24.50 24.50 24.50 16.50 16.50 16.50 16.50	1.122 1.122 1.122 1.122 1.122 1.122 1.148 1.148 1.148 1.148 1.148 1.151 1.151 1.151 1.151 1.151	0.393 0.532 0.726 0.880 0.421 0.590 0.889 1.031 1.014 0.641 0.735 0.276 0.349 0.187 0.249 0.135 0.265	Liquid Temp.(℃) 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22
Left tilted 100 Right cheek 100 Right cheek 100 Right tilted 100 Left cheek 100 Left tilted 100 Right cheek 100 Right tilted 100 Right tilted 100 Right tilted 100 Right tilted repeat 100 Front side 100 Back side 100 Back side 100 Front side 100 Back side 100 Front side 100 Front side 100 Front side 100 Back side 100 Front side 100 Back side 100 Left side 100 Front side 100 Top side 100 Left side 100 Back side 100 Top side 100 Top side 100 Top side 100	QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_69 QPSK 1_35_69 QPSK 1_35_69	63334/3500 63334/3500 633334/3500 9 633334/3500 9 633334/3500 9 633334/3500 633334/3500 Bod 633334/3500 Body 9 633334/3500 Body 9 633334/3500 Hot 633334/3500 Hot 633334/3500 Hots 633334/3500 633334/3500 Hots 633334/3500	1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 Head	0.350 0.474 0.647 0.784 1 Test data(5) 0.367 0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separa) 0.222 0.120 0.236 ata (Separa)	0.02 -0.05 0.01 0.03 0%RB) 0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 wate 15mm 5 -0.04 ate 15mm 5 -0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	16.00 16.00 16.00 15.90 15.90 15.90 15.90 15.90 15.90 14.36 14.36 1RB) 24.00 24.00 24.00 24.00 0%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 15.50 24.50 24.50 24.50 16.50 16.50	1.122 1.122 1.122 1.148 1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.151 1.151 1.151	0.532 0.726 0.880 0.421 0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted 100 Right cheek 100 Right cheek 100 Right tilted 100 Left cheek 100 Left tilted 100 Right cheek 100 Right tilted 100 Right tilted 100 Right tilted 100 Right tilted repeat 100 Front side 100 Back side 100 Back side 100 Front side 100 Back side 100 Front side 100 Front side 100 Front side 100 Back side 100 Front side 100 Back side 100 Left side 100 Front side 100 Top side 100 Left side 100 Back side 100 Top side 100 Top side 100 Top side 100	QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_69 QPSK 1_35_69 QPSK 1_35_69	63334/3500 63334/3500 633334/3500 9 633334/3500 9 633334/3500 9 633334/3500 633334/3500 Bod 633334/3500 Body 9 633334/3500 Body 9 633334/3500 Hot 633334/3500 Hot 633334/3500 Hots 633334/3500 633334/3500 Hots 633334/3500	1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 tispot Test 1:1 1:1 1:1 tispot Test da 1:1	0.474 0.647 0.784 1 Test data(5) 0.367 0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separa) 0.240 0.303 data(Separa) 0.167 0.222 0.120 0.236 ata (Separa)	-0.05 0.01 0.03 0%RB) 0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	16.00 16.00 16.00 15.90 15.90 15.90 15.90 15.90 15.90 14.36 14.36 14.36 124.00 24.00 24.00 24.00 00%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 16.00	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 15.50 24.50 24.50 24.50 16.50 16.50	1.122 1.122 1.122 1.148 1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.151 1.151 1.151	0.532 0.726 0.880 0.421 0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek 100 Right tilted 100 Left cheek 100 Left tilted 100 Right cheek 100 Right tilted 100 Right tilted 100 Right tilted 100 Right tilted repeat 100 Right cheek 100 Right tilted 100 Right cheek 100 Back side 100 Back side 100 Front side 100 Back side 100 Left side 100 Front side 100 Left side 100 Right cheek	QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_69 QPSK 1_5_69 QPSK 1_5_69	63334/3500 633334/3500 9 633334/3500 9 633334/3500 9 633334/3500 9 633334/3500 633334/3500 Bod 633334/3500 Body 9 633334/3500 Body 9 633334/3500 Hot 633334/3500 633334/3500 Hot 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 tospot Test 1:1 1:1 topot Test da 1:1	0.647 0.784 Test data(5 0.367 0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separa 0.240 0.303 data(Separa 0.120 0.236 ata (Separa	0.01 0.03 0%RB) 0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	16.00 16.00 15.90 15.90 15.90 15.90 15.90 14.36 14.36 14.36 17.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 16.00 16.00 16.00 16.00 16.00 16.00	16.50 16.50 16.50 16.50 16.50 16.50 16.50 15.50 24.50 24.50 24.50 16.50 16.50	1.122 1.148 1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.151 1.151 1.151 1.122 1.122	0.726 0.880 0.421 0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right tilted	QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_69 QPSK 1_35_69 QPSK 1_35_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Bod 633334/3500 633334/3500 Body 633334/3500 Body 633334/3500 Body 633334/3500 633334/3500 Hots 633334/3500 633334/3500 Hots 633334/3500 633334/3500 633334/3500	1:1 Head 1:1 1:1 1:1 1:1 1:1 Head 1:1 1:1 Head 1:1 1:1 Head 1:1 1:1 1:1 Head 1:1 1:1 Head 1:1 1:1 Head	0.784 Test data(5 0.367 0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separa 0.240 0.303 data(Separa 0.167 0.222 0.120 0.236 ata (Separa	0.03 0%RB) 0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	16.00 15.90 15.90 15.90 15.90 15.90 15.90 14.36 14.36 14.36 124.00 24.00 24.00 24.00 23.89 23.89 RB) 16.00 16.00 16.00 16.00 16.00 %RB)	16.50 16.50 16.50 16.50 16.50 16.50 15.50 15.50 24.50 24.50 24.50 16.50 16.50	1.122 1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.151 1.151 1.122 1.122 1.122	0.880 0.421 0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek 100 Left tilted 100 Right cheek 100 Right tilted 100 Right tilted 100 Right tilted repeat 100 Right tilted repeat 100 Right tilted 100 Right tilted 100 Right tilted 100 Front side 100 Back side 100 Front side 100 Back side 100 Front side 100 Front side 100 Front side 100 Back side 100 Left side 100 Front side 100 Top side 100 Left side 100 Top side 100 Top side 100 Top side 100	QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 155_69 QPSK 1_1 QPSK 1_5_69 QPSK 1_5_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Bod 633334/3500 Body 633334/3500 Body 633334/3500 Hot 633334/3500 Hot 633334/3500 Hots 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Head 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 Head 1:1 1:1 1:1 Head 1:1 1:1 Head 1:1 1:1 Head 1:1 1:1 Head 1:1	Test data(\$ 0.367 0.514 0.774 0.898 0.883 Test data(10 0.628 0.570 0.655 data(Separa 0.240 0.303 data(Separa 0.120 0.236 ata (Separa	0%RB) 0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 1 0.05 -0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	15.90 15.90 15.90 15.90 15.90 15.90 14.36 14.36 14.36 178 24.00 24.00 24.00 24.00 24.00 23.89 23.89 23.89 16.00 16.00 16.00 16.00	16.50 16.50 16.50 16.50 16.50 16.50 15.50 24.50 24.50 24.50 24.50 16.50 16.50	1.148 1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.421 0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted 100 Right cheek 100 Right tilted 100 Right tilted repeat 100 Right cheek 100 Right tilted 100 Front side 100 Back side 100 Front side 100 Back side 100 Left side 100 Top side 100 Front side 100 Top side 100 Left side 100 Left side 100 Top side 100 Top side 100	QPSK 135_68 QPSK 135_68 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_68 QPSK 1_5_68	9 63334/3500 9 633334/3500 9 633334/3500 9 633334/3500 Bod 633334/3500 Body 633334/3500 Body 9 633334/3500 Hot 633334/3500 Hot 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	1:1 1:1 1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 worn Test 1:1 1:1 tspot Test 1:1 1:1 pot Test da 1:1	0.367 0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separal 0.240 0.303 data(Separal 0.120 0.236 ata (Separal	0.05 -0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 5 -0.04 ate 15mm 5 -0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	15.90 15.90 15.90 15.90 14.36 14.36 14.36 178 24.00 24.00 24.00 24.00 23.89 23.89 23.89 RB) 16.00 16.00 16.00 16.00 16.00	16.50 16.50 16.50 16.50 15.50 15.50 24.50 24.50 24.50 16.50 16.50	1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left tilted 100 Right cheek 100 Right tilted 100 Right tilted repeat 100 Right cheek 100 Right tilted 100 Front side 100 Back side 100 Front side 100 Back side 100 Left side 100 Top side 100 Front side 100 Top side 100 Left side 100 Left side 100 Top side 100 Top side 100	QPSK 135_68 QPSK 135_68 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_68 QPSK 1_5_68	9 63334/3500 9 633334/3500 9 633334/3500 9 633334/3500 Bod 633334/3500 Body 633334/3500 Body 9 633334/3500 Hot 633334/3500 Hot 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 by worn Test 1:1 1:1 worn Test 1:1 1:1 tispot Test da 1:1 pot Test da 1:1	0.514 0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separal 0.240 0.303 data(Separal 0.120 0.236 ata (Separal	-0.02 0.09 0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	15.90 15.90 15.90 15.90 14.36 14.36 14.36 178 24.00 24.00 24.00 24.00 23.89 23.89 23.89 RB) 16.00 16.00 16.00 16.00 16.00	16.50 16.50 16.50 16.50 15.50 15.50 24.50 24.50 24.50 16.50 16.50	1.148 1.148 1.148 1.148 1.300 1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.590 0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek 100 Right tilted 100 Right tilted repeat 100 Right tilted repeat 100 Right cheek 100 Right tilted 100 Right tilted 100 Front side 100 Back side 100 Front side 100 Back side 100 Front side 100 Front side 100 Front side 100 Back side 100 Left side 100 Front side 100 Top side 100 Left side 100 Top side 100 Top side 100 Top side 100	QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_1 QPSK 1_5_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5_69 QPSK 1_5_69	9 633334/3500 9 633334/3500 9 633334/3500 633334/3500 Bod 633334/3500 Body 9 633334/3500 Body 9 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 Head 1:1 Head 1:1 1:1 ty worn Test 1:1 1:1 worn Test 1:1 1:1 totspot Test 1:1 1:1 1:1 1:1 totspot Test 1:1 1:1 1:1 1:1	0.774 0.898 0.883 Test data(1) 0.628 0.570 st data(Separ) 0.655 data(Separ) 0.240 0.303 data(Separ) 0.167 0.222 0.120 0.236 ata (Separa)	0.09 0.17 0.01 0.08 0.01 0.08 0.01 0.04 0.05 0.04 0.04 0.05 0.05 0.04 0.08 0.04 0.08 0.08 0.09	15.90 15.90 15.90 14.36 14.36 14.36 17.00 24.00 24.00 24.00 23.89 23.89 23.89 RB) 16.00 16.00 16.00 16.00 16.00	16.50 16.50 16.50 15.50 15.50 24.50 24.50 24.50 24.50 16.50 16.50	1.148 1.148 1.148 1.300 1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.889 1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right tilted 100 Right tilted repeat 100 Right tilted repeat 100 Right cheek 100 Right tilted 100 Front side 100 Front side 100 Back side 100 Front side 100 Back side 100 Top side 100 Front side 100 Front side 100 Back side 100 Back side 100 Top side 100 Top side 100	QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5 QPSK 1_5 QPSK 1_5 QPSK 1_5 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPS	633334/3500 633334/3500 633334/3500 Bod 633334/3500 633334/3500 Body 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	1:1 Head 1:1 Head 1:1 1:1 ly worn Test 1:1 1:1 worn Test 1:1 1:1 tispot Test da 1:1 pot Test da 1:1	0.898 0.883 Test data(1) 0.628 0.570 st data(Separ) 0.655 data(Separ) 0.240 0.303 data(Separ) 0.167 0.222 0.120 0.236 ata (Separa)	0.17 0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	15.90 15.90 14.36 14.36 14.36 1RB) 24.00 24.00 50%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00	16.50 16.50 15.50 15.50 24.50 24.50 24.50 16.50 16.50	1.148 1.300 1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122 1.122	1.031 1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right tilted repeat 100	QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_5_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5_69 QPSK 1_5_69	9 633334/3500 633334/3500 Bod 633334/3500 633334/3500 Body 9 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 Head 1:1 1:1 dy worn Test 1:1 1:1 worn Test 1:1 1:1 tispot Test da 1:1 pot Test da 1:1	0.883 Test data(1) 0.628 0.570 st data(Separ 0.655 data(Separ 0.240 0.303 data(Separ 0.167 0.222 0.120 0.236 ata (Separa	0.01 00%RB) -0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	15.90 14.36 14.36 14.36 178B) 24.00 24.00 60%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	16.50 15.50 15.50 24.50 24.50 24.50 24.50 16.50 16.50	1.148 1.300 1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	1.014 0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right cheek	QPSK 270_0 QPSK 270_0 QPSK 1_1 QPSK 1_560 QPSK 135_60 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_560 QPSK 1_560 QPSK 1_560 QPSK 1_560 QPSK 1_560 QPSK 1_560	633334/3500 633334/3500 Bodd 633334/3500 Body 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 Hots 633334/3500	Head 1:1 1:1 dy worn Test 1:1 1:1 worn Test 1:1 1:1 btspot Test 1:1 1:1 1:1 1:1 pot Test da 1:1	Test data(1)	00%RB) -0.03 -0.08 rate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	14.36 14.36 178b) 24.00 24.00 60%RB) 23.89 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	15.50 15.50 24.50 24.50 24.50 24.50 16.50 16.50	1.300 1.300 1.122 1.122 1.151 1.151 1.152 1.122 1.122	0.817 0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right tilted	QPSK 270_0 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 Q	633334/3500 Body 633334/3500 Body 9 633334/3500 9 633334/3500 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 1:1 dy worn Test 1:1 1:1 worn Test 1:1 1:1 tispot Test 1:1 1:1 pot Test da 1:1	0.628 0.570 st data(Separ 0.571 0.655 data(Separ 0.240 0.303 data(Separ 0.167 0.222 0.120 0.236 ata (Separa	-0.03 -0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 -0.08 -0.01 -0.03 e 10mm 50	14.36 1RB) 24.00 24.00 60%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 24.50 24.50 24.50 24.50 16.50 16.50	1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Right tilted	QPSK 270_0 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 Q	633334/3500 Body 633334/3500 Body 9 633334/3500 9 633334/3500 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 by worn Test 1:1 1:1 worn Test 1:1 1:1 1:1 tspot Test 1:1 1:1 1:1 1:1 tspot Test da 1:1	0.570 st data(Separ 0.571 0.655 data(Separ 0.240 0.303 data(Separ 0.167 0.222 0.120 0.236 ata (Separa	-0.08 trate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	14.36 1RB) 24.00 24.00 60%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 24.50 24.50 24.50 24.50 16.50 16.50	1.300 1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.741 0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Front side 100 Back side 100 Bront side 100 Back side 100 Back side 100 Back side 100 Back side 100 Top side 100 Front side 100 Front side 100 Top side 100 Back side 100 Left side 100 Top side 100 Top side 100	QPSK 1_1 QPSK 135_66 QPSK 135_66 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 1_5	Bod 633334/3500 Body 9 633334/3500 Ho 633334/3500 633334/3500 633334/3500 633334/3500 Hots 633334/3500	y worn Test 1:1 worn Test 1:1 1:1 tspot Test 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	st data(Separ 0.571 0.655 data(Separ 0.240 0.303 data(Separ 0.167 0.222 0.120 0.236 ata (Separa	rate 15mm 0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	1RB) 24.00 24.00 60%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 24.50 24.50 24.50 24.50 16.50 16.50	1.122 1.122 1.151 1.151 1.122 1.122 1.122	0.641 0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Back side	QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 1_5 QPSK 135_69	63334/3500 633334/3500 Body 9 633334/3500 Ho 633334/3500 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 worn Test 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	0.571 0.655 data(Separal 0.240 0.303 data(Separal 0.167 0.222 0.120 0.236 ata (Separal	0.01 -0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	24.00 24.00 50%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 24.50 24.50 16.50 16.50	1.122 1.151 1.151 1.122 1.122 1.122	0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4
Back side	QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 1_5 QPSK 135_69	63334/3500 Body 633334/3500 9 633334/3500 Hot 633334/3500 633334/3500 633334/3500 Hots 633334/3500	1:1 worn Test 1:1 1:1 tspot Test 1:1 1:1 1:1 1:1 tspot Test day	0.655 data(Separe 0.240 0.303 data(Separe 0.167 0.222 0.120 0.236 ata (Separe 0.167	-0.04 ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	24.00 60%RB) 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 24.50 24.50 16.50 16.50	1.122 1.151 1.151 1.122 1.122 1.122	0.735 0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4
Front side 100 Back side 100 Front side 100 Back side 100 Left side 100 Top side 100 Front side 100 Example 100 Front side 100 Front side 100 Dack side 100 Left side 100 Top side 100	QPSK 135_69 QPSK 135_69 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69	Body 633334/3500 9 633334/3500 Ho 633334/3500 633334/3500 633334/3500 Hots 633334/3500	1:1 1:1 0tspot Test 1:1 1:1 1:1 1:1 pot Test da	data(Separa 0.240 0.303 data(Separa 0.167 0.222 0.120 0.236 ata (Separa	ate 15mm 5 -0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	23.89 23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 24.50 16.50 16.50 16.50	1.151 1.151 1.122 1.122 1.122	0.276 0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4 22.4 22.4
Back side	QPSK 135_66 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 1_5 QPSK 135_66	633334/3500 633334/3500 Ho 633334/3500 633334/3500 633334/3500 633334/3500 Hots 633334/3500	1:1 1:1 0tspot Test 1:1 1:1 1:1 1:1 pot Test da	0.240 0.303 data(Separa 0.167 0.222 0.120 0.236 ata (Separa	-0.02 0.05 ate 10mm 1 0.04 0.08 -0.01 -0.03 e 10mm 50	23.89 23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 16.50 16.50 16.50	1.151 1.122 1.122 1.122	0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4
Back side	QPSK 135_66 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 1_5 QPSK 135_66	9 633334/3500 Hots 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 1:1 1:1 1:1 1:1 pot Test da	data(Separa 0.167 0.222 0.120 0.236 ata (Separa	0.04 0.08 -0.01 -0.03 e 10mm 50	23.89 RB) 16.00 16.00 16.00 16.00 %RB)	24.50 16.50 16.50 16.50	1.122 1.122 1.122	0.349 0.187 0.249 0.135	22.4 22.4 22.4 22.4
Back side 100 Left side 100 Top side 100 Front side 100 Back side 100 Left side 100 Top side 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 1:1 1:1 1:1 pot Test da	0.167 0.222 0.120 0.236 ata (Separat	0.04 0.08 -0.01 -0.03 e 10mm 50	16.00 16.00 16.00 16.00 18RB)	16.50 16.50	1.122 1.122	0.249 0.135	22.4 22.4
Back side 100 Left side 100 Top side 100 Front side 100 Back side 100 Left side 100 Top side 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 Hots 9 633334/3500	1:1 1:1 1:1 pot Test da 1:1	0.222 0.120 0.236 ata (Separat	0.08 -0.01 -0.03 e 10mm 50	16.00 16.00 16.00 %RB)	16.50 16.50	1.122 1.122	0.249 0.135	22.4 22.4
Left side 100 Top side 100 Front side 100 Back side 100 Left side 100 Top side 100	QPSK 1_1 QPSK 1_1 QPSK 135_60 QPSK 135_60	633334/3500 633334/3500 Hots 9 633334/3500	1:1 1:1 pot Test da 1:1	0.120 0.236 ata (Separat	-0.01 -0.03 e 10mm 50	16.00 16.00 %RB)	16.50	1.122	0.135	22.4
Top side 100 Front side 100 Back side 100 Left side 100 Top side 100	QPSK 1_1 QPSK 135_69 QPSK 135_69	633334/3500 Hots 9 633334/3500	1:1 pot Test da 1:1	0.236 ata (Separat	-0.03 e 10mm 50	16.00 %RB)				
Front side 100 Back side 100 Left side 100 Top side 100	QPSK 135_69 QPSK 135_69	Hots 9 633334/3500	pot Test da 1:1	ata (Separat	e 10mm 50	%RB)	16.50	1.122	0.265	22.4
Back side 100 Left side 100 Top side 100	QPSK 135_69	633334/3500	1:1			, ,				
Back side 100 Left side 100 Top side 100	QPSK 135_69			0.153						
Left side 100 Top side 100		1 633334/3500			0.08	15.90	16.50	1.148	0.176	22.4
Top side 100			1:1	0.249	0.01	15.90	16.50	1.148	0.286	22.4
		633334/3500	1:1	0.113	0.09	15.90	16.50	1.148	0.130	22.4
Test position DW	QPSK 135_69	633334/3500	1:1	0.288	-0.03	15.90	16.50	1.148	0.331	22.4
Took monition DW	1			nt6 Test Re	cord			1		
Test position BW.	. Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	•	•	Hea	ad Test data	(1RB)	•	•			
Left cheek 100		633334/3500	1:1	0.709	-0.02	14.75	15.50	1.189	0.843	22.4
Left tilted 100		633334/3500	1:1	0.870	-0.05	14.75	15.50	1.189	1.034	22.4
Right cheek 100		633334/3500	1:1	0.739	0.01	14.75	15.50	1.189	0.878	22.4
Right tilted 100	QPSK 1_1	633334/3500	1:1	0.640	0.09	14.75	15.50	1.189	0.761	22.4
	Ta = 21/			Test data(5	/	T				1
		9 633334/3500	1:1	0.759	-0.08	14.72	15.50	1.197	0.908	22.4
		633334/3500	1:1	0.903	0.05	14.72	15.50	1.197	1.081	22.4
		9 633334/3500	1:1	0.877	0.05	14.72	15.50	1.197	1.050	22.4
		633334/3500	1:1	0.830	0.08	14.72	15.50	1.197	0.993	22.4
Right tilted 100	QPSK 135_69	633334/3500		0.637	-0.02	14.72	15.50	1.197	0.762	22.4
1 (1 1 1 100	10001/070 A	000004/0500	1	Test data(1		1054	44.50	1 0 1 7	0.005	00.4
		633334/3500	1:1	0.485	-0.02	13.54	14.50	1.247	0.605	22.4
		633334/3500		0.637	0.01	13.54	14.50	1.247	0.795	22.4
		633334/3500	1:1	0.502	0.09	13.54	14.50	1.247	0.626	22.4
Right tilted 100	1 QPSK 2/0_0	633334/3500		0.480	0.05	13.54	14.50	1.247	0.599	22.4
Front olds 1400	ODEK 4 4			st data(Sepa			01.50	1.010	0.505	20.4
Front side 100	QPSK 1_1	633334/3500	1:1	0.489	0.06 0.07	20.65	21.50 21.50	1.216 1.216	0.595 0.709	22.4 22.4
Back side 100		633334/3500	1:1	0.583	() () /	20.65				



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						Р	age:	99 of 1	21		
Front side	100	QPSK 135_69	633334/3500	1:1	0.122	-0.03	20.62	21.50	1.225	0.149	22.4
Back side	100	QPSK 135_69	633334/3500	1:1	0.324	0.06	20.62	21.50	1.225	0.397	22.4
			Но	tspot Test	data(Separa	ate 10mm 1	RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.232	0.01	14.75	15.50	1.189	0.276	22.4
Back side	100	QPSK 1_1	633334/3500	1:1	0.466	0.08	14.75	15.50	1.189	0.554	22.4
Top side	100	QPSK 1_1	633334/3500	1:1	0.594	-0.03	14.75	15.50	1.189	0.706	22.4
			Hots	pot Test da	ıta (Separat	e 10mm 50	%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.241	-0.02	14.72	15.50	1.197	0.288	22.4
Back side	100	QPSK 135_69	633334/3500	1:1	0.459	0.08	14.72	15.50	1.197	0.549	22.4
Top side	100	QPSK 135_69	633334/3500	1:1	0.567	0.09	14.72	15.50	1.197	0.679	22.4
					t7 Test Red	ord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					d Test data	(1RB)					
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.933	0.02	14.38	15.00	1.153	1.076	22.4
Left cheek repeat		QPSK 1 1	633334/3500	1:1	0.902	-0.03	14.38	15.00	1.153	1.040	22.4
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.344	0.01	14.38	15.00	1.153	0.397	22.4
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.204	0.09	14.38	15.00	1.153	0.235	22.4
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.125	-0.02	14.38	15.00	1.153	0.144	22.4
		_	l .	Head	Test data(5	0%RB)	•	L.	ı	I	
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.763	0.05	14.10	15.00	1.230	0.939	22.4
Left tilted		QPSK 135_69		1:1	0.337	-0.06	14.10	15.00	1.230	0.415	22.4
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.190	0.08	14.10	15.00	1.230	0.234	22.4
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.113	0.04	14.10	15.00	1.230	0.139	22.4
_				Head ⁻	Test data(10	00%RB)					
Left cheek	100	QPSK 270_0		1:1	0.766	0.02	12.93	14.00	1.279	0.980	22.4
			Bod	y worn Tes	t data(Sepa	rate 15mm	1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.101	-0.01	15.18	16.00	1.208	0.122	22.4
Back side	100	QPSK 1_1	633334/3500	1:1	0.167	-0.06	15.18	16.00	1.208	0.202	22.4
			Body v	worn Test of	data (Separa	ate 15mm 5	0%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.087	0.03	15.12	16.00	1.225	0.107	22.4
Back side	100	QPSK 135_69	633334/3500	1:1	0.161	0.05	15.12	16.00	1.225	0.197	22.4
			Ho	tspot Test	data(Separa						
Front side	100	QPSK 1_1	633334/3500	1:1	0.135	-0.05	14.38	15.00	1.153	0.156	22.4
Back side	100	QPSK 1_1	633334/3500	1:1	0.255	0.01	14.38	15.00	1.153	0.294	22.4
Right side	100	QPSK 1_1	633334/3500	1:1	0.324	-0.02	14.38	15.00	1.153	0.374	22.4
Top side	100	QPSK 1_1	633334/3500	1:1	0.090	0.09	14.38	15.00	1.153	0.104	22.4
					ta (Separat						
Front side		QPSK 135_69		1:1	0.128	-0.05	14.10	15.00	1.230	0.157	22.4
Back side		QPSK 135_69		1:1	0.230	0.01	14.10	15.00	1.230	0.283	22.4
Right side		QPSK 135_69		1:1	0.391	0.03	14.10	15.00	1.230	0.481	22.4
Top side	100	QPSK 135_69	633334/3500	1:1	0.086	0.06	14.10	15.00	1.230	0.106	22.4
					t8 Test Red	ora					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	(ub)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	165	ODOL(; ;	0000011077		d Test data		05.00	05		0.5=5	00 1
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.048	0.02	25.00	25.70	1.175	0.056	22.4
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.042	0.09	25.00	25.70	1.175	0.049	22.4
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.046	0.01	25.00	25.70	1.175	0.054	22.4
Right tilted	100	QPSK 1_1	633334/3500		0.057 Test data(5	-0.02 0%RB)	25.00	25.70	1.175	0.067	22.4
Left cheek		QPSK 135_69		1:1	0.040	0.05	24.84	25.70	1.219	0.049	22.4
Left tilted		QPSK 135_69		1:1	0.050	0.07	24.84	25.70	1.219	0.061	22.4
Right cheek		QPSK 135_69		1:1	0.056	0.05	24.84	25.70	1.219	0.068	22.4
Right tilted	100	QPSK 135_69		1:1	0.109	-0.04	24.84	25.70	1.219	0.133	22.4
		T			t data(Sepa				1	1	
Front side	100	QPSK 1_1	633334/3500	1:1	0.038	-0.02	20.94	21.70	1.191	0.045	22.4
Back side	100	QPSK 1_1	633334/3500	1:1	0.333	-0.09	20.94	21.70	1.191	0.397	22.4



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							-	ago.				
				Body	worn Test	data(Separa	ate 15mm 5	0%RB)				
Front side	100	QPSK 135_	69	633334/3500	1:1	0.036	0.01	20.78	21.70	1.236	0.044	22.4
Back side	100	QPSK 135_	69	633334/3500	1:1	0.174	0.05	20.78	21.70	1.236	0.215	22.4
				Но	tspot Test	data(Separa	ite 10mm 1	RB)				
Front side	100	QPSK 1_	1	633334/3500	1:1	0.047	0.02	15.94	16.70	1.191	0.056	22.4
Back side	100	QPSK 1_	1	633334/3500	1:1	0.654	0.00	15.94	16.70	1.191	0.779	22.4
Left side	100	QPSK 1_	1	633334/3500	1:1	0.087	-0.02	15.94	16.70	1.191	0.104	22.4
Top side	100	QPSK 1_	1	633334/3500	1:1	0.056	0.01	15.94	16.70	1.191	0.067	22.4
				Hots	pot Test da	ata (Separat	e 10mm 50°	%RB)				
Front side	100	QPSK 135_	69	633334/3500	1:1	0.041	0.09	15.78	16.70	1.236	0.051	22.4
Back side	100	QPSK 135_	69	633334/3500	1:1	0.452	0.04	15.78	16.70	1.236	0.559	22.4
Left side	100	QPSK 135_	69	633334/3500	1:1	0.082	0.09	15.78	16.70	1.236	0.101	22.4
Top side	100	QPSK 135_	69	633334/3500	1:1	0.049	-0.02	15.78	16.70	1.236	0.061	22.4

Table 26: SAR of 5G NR n77(3450MHz-3550MHz) for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right tilted	633334/3500	0.898	0.883	1.017	N/A	N/A
Left tilted	633334/3500	0.903	0.877	1.030	N/A	N/A
Left cheek	633334/3500	0.933	0.902	1.034	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was 🗦 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

				Aı	nt4 Test Re	ecord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	ad Test data	a(1RB)					
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.331	-0.05	16.22	16.50	1.067	0.353	22.5
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.491	0.01	16.22	16.50	1.067	0.524	22.5
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.548	0.08	16.22	16.50	1.067	0.584	22.5
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.466	0.02	16.22	16.50	1.067	0.497	22.5
				Head	d Test data(50%RB)					
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.352	0.16	15.80	16.50	1.175	0.414	22.5
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.445	0.12	15.80	16.50	1.175	0.523	22.5
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.801	-0.08	15.80	16.50	1.175	0.941	22.5
Right cheek Repeat	100	QPSK 135_69	656000/3840	1:1	0.792	-0.01	15.80	16.50	1.175	0.931	22.5
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.733	0.09	15.80	16.50	1.175	0.861	22.5
				Head	Test data(1	100%RB)					
Right cheek	100	QPSK 270_0	656000/3840	1:1	0.586	-0.03	24.22	24.50	1.067	0.625	22.5
Right tilted	100	QPSK 270_0	656000/3840	1:1	0.687	0.05	24.22	24.50	1.067	0.733	22.5
			Body	worn Te	st data(Sep	arate 15m	m 1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.402	0.05	24.22	24.50	1.067	0.429	22.5
Back side	100	QPSK 1_1	656000/3840	1:1	0.412	-0.08	24.22	24.50	1.067	0.439	22.5
			Body w	vorn Test	data(Sepa	rate 15mm	50%RB)				
Front side	100	QPSK 135_69	656000/3840	1:1	0.421	0.11	23.77	24.50	1.183	0.498	22.5
Back side	100	QPSK 135_69	656000/3840	1:1	0.652	-0.01	23.77	24.50	1.183	0.771	22.5
			Hots	spot Test	data(Sepa	rate 10mm	1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.113	0.01	16.22	16.50	1.067	0.121	22.5
Back side	100	QPSK 1_1	656000/3840	1:1	0.295	0.09	16.22	16.50	1.067	0.315	22.5
Left side	100	QPSK 1_1	656000/3840	1:1	0.085	0.15	16.22	16.50	1.067	0.090	22.5
Top side	100	QPSK 1_1	656000/3840	1:1	0.248	0.04	16.22	16.50	1.067	0.265	22.5
			Hotsp	ot Test d	ata (Separa	ate 10mm 5	50%RB)				
Front side	100	QPSK 135_69	656000/3840	1:1	0.118	0.05	15.80	16.50	1.175	0.139	22.5



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						_	rage:	1010		_	_
Back side	100	QPSK 135_69	656000/3840	1:1	0.245	-0.07	15.80	16.50	1.175	0.288	22.5
Left side	100	QPSK 135 69	656000/3840	1:1	0.091	0.07	15.80	16.50	1.175	0.107	22.5
Top side		QPSK 135 69		1:1	0.237	-0.05	15.80	16.50	1.175	0.278	22.5
100 3100	100	Q1 011 100_00	000000/0040		nt6 Test Re		10.00	10.00	1.170	0.270	
	1		1		illo rest ne	COIG					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					ad Test dat	a(1RR)					
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.806	-0.06	16.36	17.00	1.159	0.934	22.5
Left tilted	100	QPSK 1 1	656000/3840	1:1	0.903	0.01	16.36	17.00	1.159	1.046	22.5
	_										
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.911	-0.08	16.36	17.00	1.159	1.056	22.5
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.772	-0.02	16.36	17.00	1.159	0.895	22.5
				Head		,					,
Left cheek		QPSK 135_69		1:1	0.727	0.01	16.33	17.00	1.167	0.848	22.5
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.917	0.04	16.33	17.00	1.167	1.070	22.5
Left tilted Repeat	100	QPSK 135_69	656000/3840	1:1	0.914	-0.02	16.33	17.00	1.167	1.066	22.5
Right cheek		QPSK 135_69		1:1	0.609	0.06	16.33	17.00	1.167	0.711	22.5
Right tilted		QPSK 135_69		1:1	0.766	-0.04	16.33	17.00	1.167	0.894	22.5
	1				Test data(
Left cheek	100	QPSK 270 0	656000/3840	1:1	0.702	0.13	15.41	16.00	1.146	0.804	22.5
		QPSK 270_0	656000/3840	1:1		0.13				0.782	22.5
Left tilted					0.683		15.41	16.00	1.146		
Right cheek				1:1	0.570	0.01	15.41	16.00	1.146	0.653	22.5
Right tilted	100	QPSK 270_0	656000/3840	1:1	0.675	0.09	15.41	16.00	1.146	0.773	22.5
					st data(Sep						-
Front side	100	QPSK 1_1	656000/3840	1:1	0.209	0.18	22.17	23.00	1.211	0.253	22.5
Back side	100	QPSK 1_1	656000/3840	1:1	0.303	0.09	22.17	23.00	1.211	0.367	22.5
			Body w	vorn Test	data(Sepa	rate 15mm	50%RB)				
Front side	100	QPSK 135_69		1:1	0.197	0.08	22.10	23.00	1.230	0.242	22.5
Back side		QPSK 135 69		1:1	0.328	0.15	22.10	23.00	1.230	0.404	22.5
					data(Sepa		1RB)				
Front side	100	QPSK 1 1	656000/3840	1:1	0.247	0.14	16.36	17.00	1.159	0.286	22.5
Back side	100	QPSK 1_1	656000/3840	1:1	0.513	0.13	16.36	17.00	1.159	0.594	22.5
Top side	100	QPSK 1_1	656000/3840	1:1	0.667	0.13	16.36	17.00	1.159	0.773	22.5
Top side	100	QI SICI_I			ata (Separa			17.00	1.155	0.773	22.5
Front oldo	100	QPSK 135_69						17.00	1.107	0.077	T 00 E
Front side				1:1	0.237	-0.02	16.33	17.00	1.167	0.277	22.5
Back side		QPSK 135_69		1:1	0.472	0.01	16.33	17.00	1.167	0.551	22.5
Top side	100	QPSK 135_69		1:1	0.744	-0.01	16.33	17.00	1.167	0.868	22.5
					ata(Separat						
Top side	100	QPSK 270_0	656000/3840	1:1	0.473	-0.09	15.41	16.00	1.146	0.542	22.5
				Aı	nt7 Test Re	ecord					
				Duty	SAR	Power				Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid
1001 00111011				Scaled	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
				factor		` '				(11/119)	
			,		ad Test dat						1
Left cheek	100		656000/3840	1:1	0.775	0.01	15.26	15.50	1.057	0.819	22.1
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.513	-0.02	15.26	15.50	1.057	0.542	22.1
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.404	0.09	15.26	15.50	1.057	0.427	22.1
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.215	0.01	15.26	15.50	1.057	0.227	22.1
J				Head	d Test data(50%RB)					
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.770	0.09	15.26	15.50	1.057	0.814	22.1
Left tilted		QPSK 135_69		1:1	0.477	0.01	15.26	15.50	1.057	0.504	22.1
Right cheek		QPSK 135 69		1:1	0.360	0.01	15.26	15.50	1.057	0.380	22.1
					0.360	0.05					_
Right tilted	100	QPSK 135_69	030000/3840	1:1			15.26	15.50	1.057	0.287	22.1
	1	0001/			Test data(T
Left cheek	100	QPSK 270_0		1:1	0.688	-0.07	14.02	14.50	1.117	0.768	22.1
				worn Te	st data(Sep	arate 15m	m 1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.142	0.05	16.22	16.50	1.067	0.151	22.1
<u> </u>		0001/4 4	CECCOO/0040	1:1	0.199	0.07	16.22	16.50	1.067	0.212	22.1
Back side	100	QPSK 1_1	656000/3840	1.1	0.133	0.07	10.22	. 0.		<u> </u>	
Back side	100	QPSK 1_1						10.00	11007	VIZ.12	
Front side		QPSK 1_1 QPSK 135 69	Body w		data (Sepa 0.179			16.50	1.059	0.190	22.1



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							Page:	102 0	1 121		
Back side	100	QPSK 135_69	656000/3840		0.162	0.08	16.25	16.50	1.059	0.172	22.1
			Hots	spot Test	data(Sepa	rate 10mm	1RB)				,
Front side	100	QPSK 1_1	656000/3840	1:1	0.275	0.04	15.26	15.50	1.057	0.291	22.1
Back side	100	QPSK 1_1	656000/3840	1:1	0.286	-0.06	15.26	15.50	1.057	0.302	22.1
Right side	100	QPSK 1_1	656000/3840	1:1	0.519	-0.09	15.26	15.50	1.057	0.548	22.1
Top side	100	QPSK 1_1	656000/3840	1:1	0.123	0.05	15.26	15.50	1.057	0.130	22.1
•			Hotsp	ot Test d	ata (Separa	ate 10mm 5	0%RB)				
Front side		QPSK 135_69		1:1	0.197	0.05	15.26	15.50	1.057	0.208	22.1
Back side	100	QPSK 135_69	656000/3840	1:1	0.245	0.14	15.26	15.50	1.057	0.259	22.1
Right side	100	QPSK 135_69	656000/3840	1:1	0.519	-0.02	15.26	15.50	1.057	0.548	22.1
Top side	100	QPSK 135_69	656000/3840	1:1	0.131	0.04	15.26	15.50	1.057	0.138	22.1
·				Aı	nt8 Test Re	cord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	ad Test dat	a(1RB)					
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.015	-0.03	24.96	25.70	1.186	0.017	22.1
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.140	0.01	24.96	25.70	1.186	0.166	22.1
Right cheek	100	QPSK 1 1	656000/3840	1:1	0.178	0.08	24.96	25.70	1.186	0.211	22.1
Right tilted	100	QPSK 1 1	656000/3840	1:1	0.116	0.02	24.96	25.70	1.186	0.138	22.1
J		_	•	Head	d Test data(50%RB)	•				•
Left cheek	100	QPSK 135 69	656000/3840	1:1	0.108	-0.02	24.75	25.70	1.245	0.134	22.1
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.129	0.01	24.75	25.70	1.245	0.161	22.1
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.208	0.09	24.75	25.70	1.245	0.259	22.1
Right tilted	100	QPSK 135 69	656000/3840	1:1	0.235	0.08	24.75	25.70	1.245	0.293	22.1
· ·	•	_	Body	worn Te	st data(Sep	arate 15m	m 1RB)		•		•
Front side	100	QPSK 1_1	656000/3840	1:1	0.130	-0.03	20.90	21.70	1.202	0.156	22.1
Back side	100	QPSK 1_1	656000/3840	1:1	0.255	0.03	20.90	21.70	1.202	0.307	22.1
			Body v	vorn Test	data(Sepa	rate 15mm	50%RB)				
Front side	100	QPSK 135_69	656000/3840	1:1	0.077	0.08	20.69	21.70	1.262	0.097	22.1
Back side	100	QPSK 135_69		1:1	0.212	0.05	20.69	21.70	1.262	0.268	22.1
			Hots	spot Test	data(Sepa	rate 10mm	1RB)				
Front side	100	QPSK 1_1	656000/3840	1:1	0.044	-0.01	15.87	16.70	1.211	0.053	22.1
Back side	100	QPSK 1_1	656000/3840	1:1	0.495	0.01	15.87	16.70	1.211	0.599	22.1
Left side	100	QPSK 1_1	656000/3840	1:1	0.120	0.05	15.87	16.70	1.211	0.145	22.1
Top side	100	QPSK 1_1	656000/3840	1:1	0.132	0.01	15.87	16.70	1.211	0.160	22.1
			Hotsp	ot Test d	ata (Separa	ate 10mm 5	0%RB)				
Front side	100	QPSK 135_69	656000/3840	1:1	0.045	-0.05	15.70	16.70	1.260	0.057	22.1
Back side	100	QPSK 135_69	656000/3840	1:1	0.420	0.04	15.70	16.70	1.260	0.529	22.1
Left side	100	QPSK 135_69	656000/3840	1:1	0.106	0.02	15.70	16.70	1.260	0.134	22.1
Top side	100	QPSK 135_69	656000/3840	1:1	0.150	-0.03	15.70	16.70	1.260	0.189	22.1
Table 27 CAE		C ND 577/3	•	2001411	_\ f = l l =	ll D	L -				

Table 27: SAR of 5G NR n77(3700MHz -3980MHz) for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	656000/3840	0.801	0.792	1.011	N/A	N/A
Left tilted	656000/3840	0.917	0.914	1.003	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.2.4 SAR Result of 5G NR n78

				Ant4	Test Reco	ord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Test data(1	RB)					
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.268	0.13	13.92	14.50	1.143	0.306	22.1
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.325	0.01	13.92	14.50	1.143	0.371	22.1
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.606	0.07	13.92	14.50	1.143	0.693	22.1
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.453	0.04	13.92	14.50	1.143	0.518	22.1
				Head Te	est data(50	%RB)					
Left cheek		QPSK 135_69		1:1	0.302	-0.02	13.89	14.50	1.151	0.348	22.1
Left tilted		QPSK 135_69		1:1	0.402	0.01	13.89	14.50	1.151	0.463	22.1
Right cheek		QPSK 135_69		1:1	0.743	0.12	13.89	14.50	1.151	0.855	22.1
Right cheek with EN-DC	100	QPSK 135_69	633334/3500	1:1	0.743	0.12	13.89	12.00	0.647	0.481	22.1
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.673	0.09	13.89	14.50	1.151	0.774	22.1
-			ŀ	lead Te	st data(100)%RB)					
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.438	-0.05	12.78	13.50	1.180	0.517	22.1
<u> </u>		_	Body wor	rn Test o	data(Separa	ate 15mm				•	
Front side	100	QPSK 1 1	633334/3500	1:1	0.155	-0.03	26.51	27.00	1.119	0.174	22.1
Back side	100	QPSK 1 1	633334/3500	1:1	0.220	0.02	26.51	27.00	1.119	0.246	22.1
	1		Body worn								
Front side	100	QPSK 135_69		1:1	0.162	-0.04	26.44	27.00	1.138	0.184	22.1
Back side		QPSK 135_69		1:1	0.381	-0.07	26.44	27.00	1.138	0.433	22.1
Buon Glac	100	<u>a. o.t.100_00</u>			ta(Separat			27.00	1.100	01100	
Front side	100	QPSK 1 1	633334/3500	1:1	0.191	0.01	13.92	14.50	1.143	0.218	22.1
Back side	100	QPSK 1_1	633334/3500	1:1	0.191	0.07	13.92	14.50	1.143	0.333	22.1
Left side	100	QPSK 1_1	633334/3500	1:1	0.142	0.07	13.92	14.50	1.143	0.333	22.1
			633334/3500		0.142	0.02	13.92				22.1
Top side	100	QPSK 1_1		1:1	(Separate			14.50	1.143	0.399	22.1
Front oldo	1100	ODCK 10E CO						14.50	1 151	0.000	00.1
Front side		QPSK 135_69		1:1	0.208	0.01	13.89	14.50	1.151	0.239	22.1
Back side		QPSK 135_69		1:1	0.329	0.04	13.89	14.50	1.151	0.379	22.1
Left side		QPSK 135_69		1:1	0.141	0.01	13.89	14.50	1.151	0.162	22.1
Top side		QPSK 135_69		1:1	0.464	-0.04	13.89	14.50	1.151	0.534	22.1
I OD GIDD WITH FINITIV'		OPSK 135 69	633334/3500	1:1	0.464	-0.04	13.89	12.00	0.647	0.300	22.1
Top side with EN-DC	100	Q1 O11 100_00									
TOP SIDE WILL LIVEDO	100	Q1 OK 100_00			Test Reco	ord				1	
Test position	BW.		Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor Head	SAR (W/kg) 1-g Test data(1	Power drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1-g (W/kg)	Temp.(℃)
Test position Left cheek	BW .	Modulation QPSK 1_1	Test ch./Freq.	Duty Cycle Scaled factor Head	SAR (W/kg) 1-g Test data(1 0.584	Power drift (dB)	Power(dBm)	16.50	factor 1.239	SAR 1-g (W/kg)	Temp.(℃) 22.1
Test position Left cheek Left tilted	BW.	Modulation QPSK 1_1 QPSK 1_1	Test ch./Freq. 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732	Power drift (dB) RB) -0.02 0.08	15.57 15.57	16.50 16.50	1.239 1.239	SAR 1-g (W/kg) 0.723 0.907	22.1 22.1
Test position Left cheek Left tilted Right cheek	BW.	Modulation QPSK 1_1 QPSK 1_1 QPSK 1_1	Test ch./Freq. 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802	Power drift (dB) RB) -0.02 0.08 -0.08	15.57 15.57 15.57	16.50 16.50 16.50	1.239 1.239 1.239	0.723 0.907 0.994	22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat	100 100 100 100	Modulation QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	Test ch./Freq. 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800	Power drift (dB) RB) -0.02 0.08 -0.08 0.02	15.57 15.57 15.57 15.57 15.57	16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239	0.723 0.907 0.994 0.991	22.1 22.1 22.1 22.1 22.1
Test position Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC	100 100 100 100 100	Modulation QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	Test ch./Freq. 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08	15.57 15.57 15.57 15.57 15.57 15.57	16.50 16.50 16.50 16.50 13.50	1.239 1.239 1.239 1.239 0.621	0.723 0.907 0.994 0.991 0.498	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat	100 100 100 100 100	Modulation QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	Test ch./Freq. 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802 0.618	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03	15.57 15.57 15.57 15.57 15.57	16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239	0.723 0.907 0.994 0.991	22.1 22.1 22.1 22.1 22.1
Test position Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted	100 100 100 100 100 100	Modulation QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 Head Te	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802 0.618 est data(50	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB)	15.57 15.57 15.57 15.57 15.57 15.57 15.57	16.50 16.50 16.50 16.50 16.50 13.50	1.239 1.239 1.239 1.239 0.621 1.239	0.723 0.907 0.994 0.991 0.498 0.766	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802 0.618 est data(50 0.648	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04	15.57 15.57 15.57 15.57 15.57 15.57 15.57	16.50 16.50 16.50 16.50 16.50 16.50 13.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239	0.723 0.907 0.994 0.991 0.498	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left cheek Left tilted	100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802 0.618 est data(50 0.648 0.741	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13	15.57 15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242	0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left tilted Right cheek	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69	Test ch./Freq. 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.802 0.618 est data(50 0.648 0.741 0.633	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01	15.57 15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 13.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242	SAR 1-g (W/kg) 0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920 0.786	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left cheek Left tilted	100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802 0.618 est data(50 0.648 0.741 0.633 0.619	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09	15.57 15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242	0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left theek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_5 69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.802 0.618 est data(50 0.648 0.741 0.633	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09	15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 13.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242 1.242	0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920 0.786 0.769	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left tilted Right cheek	100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_1 QPSK 1_5 QPSK 135_69 QPSK 135_69 QPSK 135_69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.802 0.618 est data(50 0.648 0.741 0.633 0.619	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09	15.57 15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 13.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242	SAR 1-g (W/kg) 0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920 0.786	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left theek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_5 69 QPSK 135 69 QPSK 135 69 QPSK 135 69	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.802 0.618 est data(50 0.648 0.741 0.633 0.619 st data(100	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09	15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242 1.242	0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920 0.786 0.769	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Left tilted	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_5 69 QPSK 135 69 QPSK 135 69 QPSK 135 69 QPSK 135 69 QPSK 270_0 QPSK 270_0	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.602 0.618 est data(50 0.648 0.741 0.633 0.619 st data(100 0.661	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09 %RB) -0.02	15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 13.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242 1.242 1.242	0.723 0.907 0.994 0.991 0.498 0.766 0.805 0.920 0.786 0.769	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left tilted Right cheek Right cheek Left tilted Right cheek Left tilted	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_5 69 QPSK 135 69 QPSK 135 69 QPSK 135 69 QPSK 135 69 QPSK 270_0 QPSK 270_0	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.618 est data(50 0.648 0.741 0.633 0.619 st data(100 0.661 0.695 0.590	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09 %RB) -0.02 0.04 0.01	15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242 1.242 1.242 1.242 1.189	0.723 0.907 0.994 0.766 0.805 0.920 0.786 0.769	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left tilted Right cheek Right cheek Left tilted Right cheek Right tilted	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 135_69 QPSK 135_69 QPSK 135_69 QPSK 270_0 QPSK 270_0 QPSK 270_0	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.618 est data(50 0.648 0.741 0.633 0.619 st data(100 0.661 0.695 0.590 data(Separa	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09 0%RB) -0.02 0.04 0.01 ate 15mm	15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56 15.56 14.75 14.75 14.75 14.75	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242 1.242 1.242 1.189 1.189	0.723 0.907 0.994 0.498 0.766 0.805 0.920 0.786 0.769	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right cheek Repeat Right cheek with EN-DC Right tilted Left cheek Left tilted Right cheek Right cheek Left tilted Left cheek Left tilted	100 100 100 100 100 100 100 100 100 100	QPSK 1_1 QPSK 1_5 69 QPSK 135 69 QPSK 135 69 QPSK 135 69 QPSK 135 69 QPSK 270_0 QPSK 270_0	633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500 633334/3500	Duty Cycle Scaled factor Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Test data(1 0.584 0.732 0.802 0.800 0.618 est data(50 0.648 0.741 0.633 0.619 st data(100 0.661 0.695 0.590	Power drift (dB) RB) -0.02 0.08 -0.08 0.02 -0.08 0.03 %RB) -0.04 0.13 0.01 0.09 %RB) -0.02 0.04 0.01	15.57 15.57 15.57 15.57 15.57 15.57 15.56 15.56 15.56 15.56 15.56	16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50 16.50	1.239 1.239 1.239 1.239 0.621 1.239 1.242 1.242 1.242 1.242 1.242 1.189	0.723 0.907 0.994 0.766 0.805 0.920 0.786 0.769	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1



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						Pi	age:	104 of 7	121		
Front side	100	QPSK 135_69	633334/3500	1:1	0.250	-0.01	22.91	23.50	1.146	0.286	22.1
Back side			633334/3500	1:1	0.464	-0.02	22.91	23.50	1.146	0.532	22.1
		_			ta(Separate						
Front side	100	QPSK 1 1	633334/3500	1:1	0.154	0.09	15.57	16.50	1.239	0.191	22.1
Back side	100	QPSK 1 1	633334/3500	1:1	0.321	0.03	15.57	16.50	1.239	0.398	22.1
Top side	100	QPSK 1_1	633334/3500	1:1	0.374	-0.11	15.57	16.50	1.239	0.463	22.1
Top side with EN-DC	100	QPSK 1_1	633334/3500	1:1	0.374	-0.11	15.57	13.50	0.621	0.232	22.1
Top side with Liv Bo	100	QI OIT I_I			(Separate			10.00	0.021	0.202	22.1
Front side	100	OPSK 135 60	633334/3500	1:1	0.157	0.01	15.56	16.50	1.242	0.195	22.1
Back side	100	OPSK 135 60	633334/3500	1:1	0.312	0.04	15.56	16.50	1.242	0.133	22.1
Top side			633334/3500	1:1	0.340	0.04	15.56	16.50	1.242	0.422	22.1
Top side	100	QF3K 135_09	033334/3300		Test Reco		15.56	10.50	1.242	0.422	22.1
	1	ı	1		rest neco	ora .		Г	1		
				Duty Cycle	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Scaled	(W/kg)	drift	Power(dBm)			SAR 1-g	Liquia Temp.(℃)
				factor	1-g	(dB)	Power(abili)	Lillill(GBIII)	lactor	(W/kg)	remp.(C)
					Test data(1	DD)					
l oft obook	100	ODCK 1 1	600004/0500				10.74	14.00	1.000	0.771	00.6
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.726	-0.04	13.74 13.74	14.00	1.062	0.771	22.6
Left cheek with EN-DC	100	QPSK 1_1	633334/3500	1:1	0.726	-0.04		12.00	0.670	0.486	22.6
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.253	0.05	13.74	14.00	1.062	0.269	22.6
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.152	-0.01	13.74	14.00	1.062	0.161	22.6
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.103	0.09	13.74	14.00	1.062	0.109	22.6
1 2 1	1	onour :-			est data(50°		T	1	T	l = - '	
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.553	0.02	13.76	14.00	1.057	0.584	22.6
Left tilted			633334/3500	1:1	0.238	-0.04	13.76	14.00	1.057	0.252	22.6
Right cheek			633334/3500	1:1	0.138	0.01	13.76	14.00	1.057	0.146	22.6
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.093	0.09	13.76	14.00	1.057	0.098	22.6
			Body wor	rn Test o	data(Separa	ate 15mm	1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.063	0.01	18.27	18.50	1.054	0.066	22.6
Back side	100	QPSK 1 1	633334/3500	1:1	0.120	0.02	18.27	18.50	1.054	0.127	22.6
		_	Body worn		ta(Separate	e 15mm 50	0%RB)	•			
Front side	100	QPSK 135 69	633334/3500	1:1	0.077	0.05	18.26	18.50	1.057	0.081	22.6
Back side			633334/3500	1:1	0.105	0.02	18.26	18.50	1.057	0.111	22.6
		_			ta(Separate						
Front side	100	QPSK 1_1	633334/3500	1:1	0.099	-0.01	13.74	14.00	1.062	0.105	22.6
Back side	100	QPSK 1_1	633334/3500	1:1	0.190	0.07	13.74	14.00	1.062	0.202	22.6
Right side	100	QPSK 1_1	633334/3500	1:1	0.221	-0.15	13.74	14.00	1.062	0.235	22.6
Top side	100	QPSK 1_1	633334/3500	1:1	0.069	-0.03	13.74	14.00	1.062	0.233	22.6
Top side	100	QI OIX I_I			(Separate			14.00	1.002	0.070	22.0
Front side	100	OPSK 135 60	633334/3500	1:1	0.092	0.01	13.76	14.00	1.057	0.097	22.6
Back side			633334/3500	1:1	0.032	0.07	13.76	14.00	1.057	0.189	22.6
Right side			633334/3500	1:1	0.179	-0.02	13.76	14.00	1.057	0.169	22.6
				1:1	0.237	-0.02	13.76	12.00	0.667	0.250	22.6
Right side with EN-DC			633334/3500 633334/3500	1:1	0.237	0.02	1				
Top side	100	QPSK 135_69	033334/3500		Test Reco		13.76	14.00	1.057	0.086	22.6
	l .	1			rest neco	l l	1	1			
				Duty Cycle	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Scaled	(W/kg)	drift	Power(dBm)	l imit/dRm\	factor	SAR I-G	Liquid Temp.(℃)
				factor	1-g	(dB)	rower(abili)	Lillin (abili)	lactor	(W/kg)	remp.(C)
					Test data(1	DD)					
Left cheek	100	QPSK 1 1	633334/3500		0.068	0.09	27.00	27.50	1.122	0.076	22.6
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.068	-0.07	27.00		1.122	0.076	22.6
		QPSK 1_1		1:1				27.50	1.122		
Right cheek	100		633334/3500	1:1	0.038	-0.01	27.00	27.50		0.043	22.6
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.040	0.07	27.00	27.50	1.122	0.045	22.6
1 - 6 - 1	1400	DD01/ 405 - 55		1	est data(50°		00.00	07.50	1440-	0.007	00.0
Left cheek			633334/3500	1:1	0.033	0.08	26.98	27.50	1.127	0.037	22.6
Left tilted			633334/3500	1:1	0.029	0.03	26.98	27.50	1.127	0.033	22.6
Right cheek			633334/3500	1:1	0.038	0.01	26.98	27.50	1.127	0.043	22.6
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.035	-0.04	26.98	27.50	1.127	0.039	22.6
					data(Separa				,		
Front side	100	QPSK 1_1	633334/3500	1:1	0.056	0.05	21.90	22.50	1.148	0.064	22.6
Back side	100	QPSK 1_1	633334/3500	1:1	0.293	0.03	21.90	22.50	1.148	0.336	22.6



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							- 0 -				
			Body worn	Test da	ta (Separat	e 15mm 50)%RB)	•	•	•	
Front side	100	QPSK 135_69	633334/3500	1:1	0.048	-0.04	21.93	22.50	1.140	0.055	22.6
Back side	100	QPSK 135_69	633334/3500	1:1	0.377	-0.08	21.93	22.50	1.140	0.430	22.6
			Hotspot	Test da	ta(Separate	e 10mm 1F	RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.016	0.09	16.12	16.50	1.091	0.018	22.6
Back side	100	QPSK 1_1	633334/3500	1:1	0.568	-0.06	16.12	16.50	1.091	0.620	22.6
Left side	100	QPSK 1_1	633334/3500	1:1	0.010	-0.04	16.12	16.50	1.091	0.011	22.6
Top side	100	QPSK 1_1	633334/3500	1:1	0.010	0.05	16.12	16.50	1.091	0.011	22.6
			Hotspot T	est data	(Separate	10mm 50%	6RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.041	0.03	16.10	16.50	1.096	0.045	22.6
Back side	100	QPSK 135_69	633334/3500	1:1	0.729	-0.06	16.10	16.50	1.096	0.799	22.6
Back side with EN-DC	100	QPSK 135_69	633334/3500	1:1	0.729	-0.06	16.10	14.50	0.692	0.504	22.6
Left side	100	QPSK 135_69	633334/3500	1:1	0.010	0.05	16.10	16.50	1.096	0.011	22.6
Top side	100	QPSK 135_69	633334/3500	1:1	0.011	-0.01	16.10	16.50	1.096	0.012	22.6

Table 28: SAR of 5G NR n78(3450MHz-3550MHz) for Head and Body.

Note: The power of class2 is larger than that of class3, so only the class2 was tested and class3 is not required.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	633334/3500	0.802	0.800	1.003	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			•	Head	d Test data	(1RB)					
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.321	0.01	13.96	14.50	1.132	0.364	22.1
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.385	0.07	13.96	14.50	1.132	0.436	22.1
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.707	0.02	13.96	14.50	1.132	0.801	22.1
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.869	0.09	13.96	14.50	1.132	0.984	22.1
Right tilted Repeat	100	QPSK 1_1	650000/3750	1:1	0.802	0.04	13.96	14.50	1.132	0.908	22.1
Right tilted with EN-DO	100	QPSK 1_1	650000/3750	1:1	0.869	-0.05	13.96	12.00	0.637	0.553	22.1
				Head ⁻	Test data(50%RB)					
Left cheek	100	QPSK 135_69	650000/3750	1:1	0.270	-0.03	13.87	14.50	1.156	0.312	22.1
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.337	0.05	13.87	14.50	1.156	0.390	22.1
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.519	0.01	13.87	14.50	1.156	0.600	22.1
Right tilted	100	QPSK 135_69	650000/3750	1:1	0.690	0.07	13.87	14.50	1.156	0.798	22.1
				Head T	est data(1	00%RB)					
Right cheek	100	QPSK 270_0	650000/3750	1:1	0.520	-0.03	12.81	13.50	1.172	0.610	22.1
Right tilted	100	QPSK 270_0	650000/3750	1:1	0.520	0.02	12.81	13.50	1.172	0.610	22.1
			Body w	orn Test	data(Sep	arate 15m	ım 1RB)				
Front side	100	QPSK 1_1	650000/3750	1:1	0.145	0.04	26.53	27.00	1.114	0.162	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.399	0.18	26.53	27.00	1.114	0.445	22.1
				rn Test c	lata(Separ	ate 15mm	1 50%RB)				
Front side	100	QPSK 135_69	650000/3750	1:1	0.153	0.04	26.46	27.00	1.132	0.173	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.399	-0.02	26.46	27.00	1.132	0.452	22.1
				ot Test d	lata(Separ	ate 10mm	1RB)				
Front side	100	QPSK 1_1	650000/3750	1:1	0.056	0.06	13.96	14.50	1.132	0.063	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.438	0.09	13.96	14.50	1.132	0.496	22.1
Left side	100	QPSK 1_1	650000/3750	1:1	0.166	-0.02	13.96	14.50	1.132	0.188	22.1
Top side	100	QPSK 1_1	650000/3750	1:1	0.577	0.09	13.96	14.50	1.132	0.653	22.1



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Top side with EN-DC	100	QPSK 1_1	650000/3750	1:1	0.577	0.09	13.96	12.00	0.637	0.367	22.1
				Test dat	a (Separa	te 10mm !	50%RB)				
Front side	100	QPSK 135_69	650000/3750	1:1	0.217	0.01	13.87	14.50	1.156	0.251	22.1
Back side	100	QPSK 135_69	650000/3750	1:1	0.438	0.06	13.87	14.50	1.156	0.506	22.1
Left side	100	QPSK 135_69	650000/3750	1:1	0.149	-0.02	13.87	14.50	1.156	0.172	22.1
Top side	100	QPSK 135_69	650000/3750	1:1	0.450	0.10	13.87	14.50	1.156	0.520	22.1
					6 Test Re	cord					
				Duty	SAR	Power		_		Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	drift	Conducted	Tune up	Scaled	CAD 1-a	Liquid
				Scaled	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
				factor		` ′				() 3/	
1 - (1 - 1 1-	400	0001/4 4	050000/0750		d Test data		45.54	10.50	4 0 4 7	0.000	00.4
Left cheek Left tilted	100	QPSK 1_1 QPSK 1_1	650000/3750 650000/3750	1:1	0.745	0.01	15.54	16.50	1.247 1.247	0.929	22.1
	100			1:1 1:1	0.852	-0.09 0.02	15.54	16.50	1.247	1.063	22.1 22.1
Right cheek		QPSK 1_1	650000/3750		0.717		15.54	16.50		0.894	
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.791	0.04	15.54	16.50	1.247	0.987	22.1
l oft about	100	QPSK 135 69	650000/3750		Test data(15.51	10 FO	1.050	0.757	00.1
Left cheek Left tilted		QPSK 135_69 QPSK 135_69		1:1		0.08	15.51	16.50 16.50	1.256		22.1 22.1
Left tilted Repeat		QPSK 135_69 QPSK 135_69		1:1	0.863	0.00	15.51		1.256	1.084 1.078	
Left tilted Repeat Left tilted with EN-DC	100	QPSK 135_69 QPSK 135_69		1:1 1:1	0.858 0.863	-0.04 0.00	15.51 15.51	16.50 13.50	1.256 0.630	0.543	22.1 22.1
Right cheek			650000/3750	1:1	0.863				1.256	0.543	
Right cheek Right tilted			650000/3750	1:1	0.744	0.09 0.16	15.51 15.51	16.50 16.50	1.256	0.896	22.1 22.1
riight tiiteu	100	WI OK 199_08	000000/0700		est data(1		10.01	10.50	1.230	0.030	<u> </u>
Left cheek	100	QPSK 270 0	650000/3750	1:1	0.541	0.09	14.80	15.50	1.175	0.636	22.1
Left tilted		QPSK 270_0	650000/3750	1:1	0.779	0.03	14.80	15.50	1.175	0.030	22.1
Right cheek		QPSK 270_0	650000/3750	1:1	0.574	-0.03	14.80	15.50	1.175	0.674	22.1
Right tilted		QPSK 270_0	650000/3750	1:1	0.553	0 .03	14.80	15.50	1.175	0.650	22.1
rtight tilted	100	Q1 31(270_0			data(Sep			13.30	1.175	0.000	22.1
Front side	100	QPSK 1_1	650000/3750	1:1	0.282	0.01	22.62	23.50	1.225	0.345	22.1
Back side	100	QPSK 1_1	650000/3750	1:1	0.251	-0.03	22.62	23.50	1.225	0.343	22.1
Dack side	100	QI OIX I_I			lata(Separ			20.00	1.225	0.507	<i>LL</i> .1
Front side	100	OPSK 135_69	650000/3750	1:1	0.258	0.01	22.60	23.50	1.230	0.317	22.1
Back side			650000/3750	1:1	0.408	0.02	22.60	23.50	1.230	0.502	22.1
Buok side	100	Q1 01 100_00			lata(Separ			20.00	1.200	0.002	
Front side	100	QPSK 1_1	650000/3750	1:1	0.261	-0.04	15.54	16.50	1.247	0.326	22.1
Back side	100	QPSK 1 1	650000/3750	1:1	0.521	0.04	15.54	16.50	1.247	0.650	22.1
Top side	100	QPSK 1_1	650000/3750	1:1	0.619	0.05	15.54	16.50	1.247	0.772	22.1
Top side with EN-DC	100	QPSK 1_1	650000/3750	1:1	0.619	0.05	15.54	13.50	0.625	0.387	22.1
	1				a (Separa				0.000		
Front side	100	QPSK 135 69	650000/3750	1:1	0.400	0.11	15.51	16.50	1.256	0.502	22.1
Back side			650000/3750	1:1	0.164	0.08	15.51	16.50	1.256	0.206	22.1
Top side			650000/3750	1:1	0.599	-0.04	15.51	16.50	1.256	0.752	22.1
				Ant	7 Test Re						
				Duty	SAR	Power				Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	duift	Conducted			0404	Liquid
rest position	D VV.	Wodulation	rest cii./i req.	Scaleu	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
				factor		` ′				(11/119)	
1.6.1.	140-	O D C L	0505001===		d Test data		T 45.5=	4		0.5.1-	1 65 -
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.788	-0.04	13.87	14.00	1.030	0.812	22.5
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.440	-0.04	13.87	14.00	1.030	0.453	22.5
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.166	0.01	13.87	14.00	1.030	0.171	22.5
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.144	0.09	13.87	14.00	1.030	0.148	22.5
l oft chook	100	ODOK 10E 00	650000/0750		rest data(10.76	14.00	1.057	0.007	20 E
Left cheek			650000/3750	1:1	0.783	-0.04	13.76	14.00	1.057	0.827	22.5
Left cheek with EN-DC				1:1	0.783	-0.04	13.76	12.00	0.667	0.522	22.5
Right cheek			650000/3750 650000/3750	1:1 1:1	0.421 0.187	0.01 0.07	13.76	14.00 14.00	1.057 1.057	0.445 0.198	22.5
Right cheek Right tilted				1:1	0.187		13.76	14.00	1.057	0.198	22.5 22.5
	100	UDGK 10E 60	1 6500000/0750						1 1 11 27	U. 1.5 I	ı 22.0
Right tilted	100	QPSK 135_69	650000/3750			-0.05	13.76	14.00	1.007	01.01	
				Head T	est data(1	00%RB)					
Left cheek		QPSK 135_69 QPSK 270_0	650000/3750	Head T 1:1		00%RB) 0.04	12.72	13.00	1.067	0.789	22.5



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							Page:	107 (01 121		
Front side	100	QPSK 1_1	650000/3750	1:1	0.190	0.10	18.38	18.50	1.028	0.195	22.5
Back side	100	QPSK 1_1	650000/3750	1:1	0.133	-0.09	18.38	18.50	1.028	0.137	22.5
			Body wo	rn Test d	lata(Sepai	ate 15mm	n 50%RB)				
Front side	100	QPSK 135_69		1:1	0.171	0.01	18.27	18.50	1.054	0.180	22.5
Back side	100	QPSK 135_69	650000/3750	1:1	0.126	0.02	18.27	18.50	1.054	0.133	22.5
		_			ata(Separ	ate 10mm					
Front side	100	QPSK 1 1	650000/3750	1:1	0.160	0.05	13.87	14.00	1.030	0.165	22.5
Back side	100	QPSK 1_1	650000/3750	1:1	0.224	-0.04	13.87	14.00	1.030	0.231	22.5
Right side	100	QPSK 1 1	650000/3750	1:1	0.378	0.15	13.87	14.00	1.030	0.389	22.5
Top side	100		650000/3750	1:1	0.127	-0.09	13.87	14.00	1.030	0.131	22.5
·			Hotspot	Test dat	a (Separa	te 10mm	50%RB)				
Front side	100	QPSK 135 69		1:1	0.193	-0.04	13.76	14.00	1.057	0.204	22.5
Back side	100	QPSK 135_69	650000/3750	1:1	0.274	0.03	13.76	14.00	1.057	0.290	22.5
Right side		QPSK 135_69		1:1	0.381	0.14	13.76	14.00	1.057	0.403	22.5
Right side with EN-D				1:1	0.381	0.14	13.76	12.00	0.667	0.254	22.5
Top side		QPSK 135_69		1:1	0.186	0.01	13.76	14.00	1.057	0.197	22.5
,		_		Ant	8 Test Re				_		
				Duty						Cooling	
T	D)4/		T1	Cyclo	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Scaled	(W/kg)	drift	Power(dBm)	Limit(dBm)	factor	SAR 1-g	Temp.(℃)
				factor	1-g	(dB)	l ,	,		(W/kg)	
				Head	Test data	a(1RB)	-				
Left cheek	100	QPSK 1_1	650000/3750	1:1	0.010	0.00	27.00	27.50	1.122	0.011	22.5
Left tilted	100	QPSK 1_1	650000/3750	1:1	0.004	0.04	27.00	27.50	1.122	0.005	22.5
Right cheek	100	QPSK 1_1	650000/3750	1:1	0.000	0.00	27.00	27.50	1.122	0.000	22.5
Right tilted	100	QPSK 1_1	650000/3750	1:1	0.017	0.00	27.00	27.50	1.122	0.019	22.5
				Head 7	Γest data(:	50%RB)					
Left cheek		QPSK 135_69		1:1	0.055	0.00	26.98	27.50	1.127	0.062	22.5
Left tilted	100	QPSK 135_69	650000/3750	1:1	0.003	0.00	26.98	27.50	1.127	0.004	22.5
Right cheek	100	QPSK 135_69	650000/3750	1:1	0.014	-0.03	26.98	27.50	1.127	0.016	22.5
Right tilted	100	QPSK 135_69		1:1	0.203	0.02	26.98	27.50	1.127	0.229	22.5
		,	Body w	orn Test	data(Sep	arate 15m	ım 1RB)			,	
Front side	100	QPSK 1_1	650000/3750	1:1	0.012	-0.09	21.90	22.50	1.148	0.013	22.5
Back side	100	QPSK 1_1	650000/3750	1:1	0.234	0.02	21.90	22.50	1.148	0.269	22.5
			Body wor	n Test da	ata (Sepai	ate 15mm	n 50%RB)				
Front side		QPSK 135_69		1:1	0.012	0.01	21.93	22.50	1.140	0.014	22.5
Back side	100	QPSK 135_69		1:1	0.207	0.04	21.93	22.50	1.140	0.236	22.5
			Hotsp	ot Test d	ata(Separ	ate 10mm	1RB)				•
Front side	100		650000/3750	1:1	0.049	0.06	16.12	16.50	1.091	0.054	22.5
Back side	100	QPSK 1_1	650000/3750	1:1	0.403	-0.06	16.12	16.50	1.091	0.440	22.5
Left side	100		650000/3750	1:1	0.174	0.05	16.12	16.50	1.091	0.190	22.5
Top side	100	QPSK 1_1	650000/3750	1:1	0.069	0.07	16.12	16.50	1.091	0.075	22.5
			Hotspot	Test dat	a (Separa	te 10mm	50%RB)				
Front side	100	QPSK 135_69		1:1	0.035	-0.05	16.10	16.50	1.096	0.038	22.5
Back side	100	QPSK 135_69	650000/3750	1:1	0.356	0.01	16.10	16.50	1.096	0.390	22.5
Left side	100	QPSK 135_69	650000/3750	1:1	0.109	0.04	16.10	16.50	1.096	0.120	22.5
Top side	100	QPSK 135_69	650000/3750	1:1	0.081	0.09	16.10	16.50	1.096	0.089	22.5
		ND p70/27/									

Table 29: SAR of 5G NR n78(3700MHz-3800 MHz) for Head and Body.

Note:The power of class2 is larger than that of class3, so only the class2 was tested and class3 is not required.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)	
Right tilted	650000/3750	0.869	0.802	1.084	N/A	N/A	
Left tilted	650000/3750	0.863	0.858	1.006	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was 🗦 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.2.5 SAR Result of WIFI 2.4G

(Ant16+Ant18)MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				He	ad Test d	ata					
Left cheek	802.11b	6/2437	99.92%	1.001	0.811	0.01	21.79	22.50	1.178	0.956	22.5
Left cheek	802.11b	1/2412	99.92%	1.001	0.859	-0.08	21.68	22.50	1.208	1.038	22.5
Left tilted	802.11b	6/2437	99.92%	1.001	0.801	0.03	21.79	22.50	1.178	0.944	22.5
Left tilted	802.11b	1/2412	99.92%	1.001	0.861	0.02	21.68	22.50	1.208	1.041	22.5
Left tilted Repeat		1/2412	99.92%	1.001	0.856	0.09	21.68	22.50	1.208	1.035	22.5
Right cheek	802.11b	6/2437	99.92%	1.001	0.45	0.02	21.79	22.50	1.178	0.53	22.5
Right tilted	802.11b	6/2437	99.92%	1.001	0.332	0.05	21.79	22.50	1.178	0.391	22.5
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.92%	1.001	0.116	0.03	21.79	22.50	1.178	0.137	22.5
Back side	802.11b	6/2437	99.92%	1.001	0.230	0.01	21.79	22.50	1.178	0.271	22.5
	Hotspot Test data (Separate 10mm)										
Front side	802.11b	6/2437	99.92%	1.001	0.242	0.05	21.79	22.50	1.178	0.285	22.5
Back side	802.11b	6/2437	99.92%	1.001	0.419	0.03	21.79	22.50	1.178	0.494	22.5
Right side	802.11b	6/2437	99.92%	1.001	0.362	0.05	21.79	22.50	1.178	0.427	22.5
Top side	802.11b	6/2437	99.92%	1.001	0.184	0.03	21.79	22.50	1.178	0.217	22.5
		(Ant16+An	118)MIMO si	imultaneo	us transr	nission wi	th WWAN Te	st Record			
Test position				Duty	SAR	Power				Scaled	
•	Test mode	Test ch./Freq.	Duty Cycle	Cycle Scaled factor	(W/kg) 1-g	drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-	Liquid Temp.(℃)
				Scaled factor	(W/kg) 1-g ead Test d	drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1- g (W/kg)	Temp.(℃)
Left cheek	802.11b	6/2437	99.92%	Scaled factor He 1.001	(W/kg) 1-g ead Test d 0.811	drift (dB) ata 0.01	Power(dBm) 21.79	16.00	factor 0.264	SAR 1- g (W/kg)	
Left cheek	802.11b 802.11b	6/2437 1/2412	99.92% 99.92%	Scaled factor He 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859	drift (dB) ata 0.01 -0.08	21.79 21.68	16.00 16.00	0.264 0.270	SAR 1- g (W/kg) 0.214 0.232	22.5 22.5
Left cheek Left tilted	802.11b 802.11b 802.11b	6/2437 1/2412 6/2437	99.92% 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801	drift (dB) ata 0.01 -0.08 0.03	21.79 21.68 21.79	16.00 16.00 16.00	0.264 0.270 0.264	SAR 1- g (W/kg) 0.214 0.232 0.211	22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted	802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412	99.92% 99.92% 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861	drift (dB) ata 0.01 -0.08 0.03 0.02	21.79 21.68 21.79 21.68	16.00 16.00 16.00 16.00	0.264 0.270 0.264 0.270	0.214 0.232 0.211 0.233	22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek	802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437	99.92% 99.92% 99.92% 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02	21.79 21.68 21.79 21.68 21.79 21.68 21.79	16.00 16.00 16.00 16.00 16.00	0.264 0.270 0.264 0.270 0.264	0.214 0.232 0.211 0.233 0.119	22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted	802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412	99.92% 99.92% 99.92% 99.92% 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ad Test d 0.811 0.859 0.801 0.861 0.45	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05	21.79 21.68 21.79 21.68 21.79 21.68 21.79 21.79	16.00 16.00 16.00 16.00	0.264 0.270 0.264 0.270	0.214 0.232 0.211 0.233	22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek Right tilted	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% 99.92% Boo	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 yworn Te	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 15	21.79 21.68 21.79 21.68 21.79 21.68 21.79 21.79 mm)	16.00 16.00 16.00 16.00 16.00 16.00	0.264 0.270 0.264 0.270 0.264 0.264	0.214 0.232 0.211 0.233 0.119 0.088	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek Right tilted Front side	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% Boo 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 150 0.03	21.79 21.68 21.79 21.68 21.79 21.79 21.79 mm) 21.79	16.00 16.00 16.00 16.00 16.00 16.00 16.00	0.264 0.270 0.264 0.270 0.264 0.264 1.050	0.214 0.232 0.211 0.233 0.119 0.088	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek Right tilted	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% Boo 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se 0.116	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 150 0.03 0.01	21.79 21.68 21.79 21.68 21.79 21.79 21.79 mm) 21.79 21.79	16.00 16.00 16.00 16.00 16.00 16.00	0.264 0.270 0.264 0.270 0.264 0.264	0.214 0.232 0.211 0.233 0.119 0.088	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek Right tilted Front side Back side	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% 99.92% 99.92% Ho	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se 0.116 0.23 data (Se	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 150 0.03 0.01 parate 10m	21.79 21.68 21.79 21.68 21.79 21.79 21.79 mm) 21.79 mm)	16.00 16.00 16.00 16.00 16.00 16.00 16.00 22.00	0.264 0.270 0.264 0.270 0.264 0.264 1.050	0.214 0.232 0.211 0.233 0.119 0.088 0.122 0.242	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek Right tilted Front side Back side	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% 99.92% Boo 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se 0.116 0.23 data (Se 0.242	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 15i 0.03 0.01 parate 10m 0.05	21.79 21.68 21.79 21.68 21.79 21.79 21.79 mm) 21.79 m) 21.79	16.00 16.00 16.00 16.00 16.00 16.00 22.00 22.00	0.264 0.270 0.264 0.270 0.264 0.264 0.264 1.050 1.050	0.214 0.232 0.211 0.233 0.119 0.088 0.122 0.242	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left tilted Left tilted Right cheek Right tilted Front side Back side Front side Back side	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437 6/2437 6/2437 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% Boo 99.92% 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se 0.116 0.23 data (Se 0.242 0.419	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 150 0.03 0.01 carate 10m 0.05 0.03	21.79 21.68 21.79 21.68 21.79 21.79 21.79 mm) 21.79 m) 21.79 21.79	16.00 16.00 16.00 16.00 16.00 16.00 22.00 22.00 19.50	0.264 0.270 0.264 0.270 0.264 0.264 1.050 1.050 0.590 0.590	0.214 0.232 0.211 0.233 0.119 0.088 0.122 0.242 0.143 0.247	Temp.(°C) 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22
Left cheek Left tilted Left tilted Right cheek Right tilted Front side Back side	802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b 802.11b	6/2437 1/2412 6/2437 1/2412 6/2437 6/2437 6/2437 6/2437	99.92% 99.92% 99.92% 99.92% 99.92% 99.92% Boo 99.92% 99.92%	Scaled factor He 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001	(W/kg) 1-g ead Test d 0.811 0.859 0.801 0.861 0.45 0.332 st data(Se 0.116 0.23 data (Se 0.242	drift (dB) ata 0.01 -0.08 0.03 0.02 0.02 0.05 eparate 15i 0.03 0.01 parate 10m 0.05	21.79 21.68 21.79 21.68 21.79 21.79 21.79 mm) 21.79 m) 21.79	16.00 16.00 16.00 16.00 16.00 16.00 22.00 22.00	0.264 0.270 0.264 0.270 0.264 0.264 0.264 1.050 1.050	0.214 0.232 0.211 0.233 0.119 0.088 0.122 0.242	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5

Table 30: SAR of WIFI 2.4G for Head and Body. Note:

1) As the 802.11b highest reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes are not higher than 802.11b, therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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8.2.1 SAR Result of WIFI 5G

			(Ant17	+Ant18)M	IMO Test	Record	2				
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			H	ead Test d	lata of U-N	III-2A					
Left cheek	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.761	0.07	15.68	17.00	1.355	1.035	22.1
Left tilted	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.539	0.01	15.68	17.00	1.355	0.733	22.1
Right cheek	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.264	0.06	15.68	17.00	1.355	0.359	22.1
Right tilted	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.251	-0.02	15.68	17.00	1.355	0.341	22.1
-			H	ead Test d	ata of U-N	III-2C					
Left cheek	802.11ac VHT80 MCS0	138/5690	99.63%	1.004	0.714	0.09	16.54	17.50	1.247	0.894	22.6
Left cheek	802.11ac VHT80 MCS0	106/5530	99.63%	1.004	0.683	0.13	16.03	17.50	1.403	0.962	22.6
Left tilted	802.11ac VHT80 MCS0	138/5690	99.63%	1.004	0.762	0.06	16.54	17.50	1.247	0.954	22.6
Left tilted	802.11ac VHT80 MCS0	106/5530	99.63%	1.004	0.721	0.01	16.03	17.50	1.403	1.015	22.6
Right cheek	802.11ac VHT80 MCS0	138/5690	99.63%	1.004	0.401	-0.02	16.54	17.50	1.247	0.502	22.6
Right tilted	802.11ac VHT80 MCS0	138/5690	99.63%	1.004	0.467	0.01	16.54	17.50	1.247	0.585	22.6
_			F	lead Test	data of U-	NII-3					
Left cheek	802.11ac VHT80 MCS0	155/5775	99.63%	1.004	0.608	0.01	18.58	19.50	1.236	0.754	22.0
Left tilted	802.11ac VHT80 MCS0			1.004	0.825	0.03	18.58	19.50	1.236	1.023	22.0
Left tilted Repeat	t802.11ac VHT80 MCS0			1.004	0.812	0.03	18.58	19.50	1.236	1.007	22.0
Right cheek	802.11ac VHT80 MCS0			1.004	0.293	0.06	18.58	19.50	1.236	0.363	22.0
Right tilted	802.11ac VHT80 MCS0			1.004	0.417	0.11	18.58	19.50	1.236	0.517	22.0
				est data o							
Front side	802.11a	40/5200		1.005	0.200	0.01	21.57	22.50	1.239	0.249	22.1
Back side	802.11a	40/5200		1.005	0.169	0.02	21.57	22.50	1.239	0.210	22.1
<u> </u>	002			est data of					00	0.2.0	
Front side	802.11a	116/5580		1.005	0.207	-0.07	18.84	19.00	1.038	0.216	22.6
Back side	802.11a	116/5580		1.005	0.308	-0.17	18.84	19.00	1.038	0.321	22.6
Body worn Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785		1.005	0.165	0.11	21.44	21.50	1.014	0.168	22.0
Back side	802.11a	157/5785		1.005	0.416	0.06	21.44	21.50	1.014	0.424	22.0
24011 0.40	002			st data of				21100			
Front side	802.11a	40/5200		1.005	0.365	0.09	21.40	22.50	1.288	0.472	22.1
Back side	802.11a	40/5200		1.005	0.286	0.04	21.40	22.50	1.288	0.370	22.1
Right side	802.11a	40/5200		1.005	0.368	0.01	21.40	22.50	1.288	0.476	22.1
Top side	802.11a	40/5200		1.005	0.306	0.02	21.40	22.50	1.288	0.396	22.1
Top side	002.11u			st data of l				ZZ.00	1.200	0.000	
Front side	802.11a	157/5785		1.005	0.237	0.03	21.44	21.50	1.014	0.241	22.0
Back side	802.11a	157/5785		1.005	0.422	0.09	21.44	21.50	1.014	0.430	22.0
Right side	802.11a	157/5785		1.005	0.324	0.05	21.44	21.50	1.014	0.330	22.0
Top side	802.11a	157/5785		1.005	0.827	-0.11	21.44	21.50	1.014	0.842	22.0
Top side Repeat		157/5785		1.005	0.823	0.01	21.44	21.50	1.014	0.838	22.0
Top side Hepeat	. ουΣ.ττα	101/0100	33.30 /6	Duty			21.77	21.50	1.014	Scaled	22.0
		Test	Duty	Cycle	SAR	Power	Conducted	Tune up	Scaled		Liquid
Test position	Test mode	ch./Freq.			(W/kg)	drift	Power(dBm)				Temp.(℃)
		om, req.	Cyolc	factor	10-g	(dB)	i ower(abiii)	Liiiii(GDiii)	luotoi	(W/kg)	· op.(o)
	P	roduct spe	ecific 10c		data of U	-NII-2A(S	eparate 0mm)			(117119)	
Front side	802.11a	60/5300		1.005	0.940	0.07	19.75	21.50	1.496	1.413	22.1
Back side	802.11a	60/5300		1.005	0.484	0.01	19.75	21.50	1.496	0.728	22.1
Right side	802.11a	60/5300		1.005	1.310	0.05	19.75	21.50	1.496	1.969	22.1
Top side	802.11a	60/5300		1.005	0.666	0.03	19.75	21.50	1.496	1.001	22.1
100000							eparate 0mm)		1	1	
Front side	802.11a	116/5580		1.004	1.210	0.01	18.84	19.00	1.038	1.261	22.6
Back side	802.11a	116/5580		1.004	0.651	0.01	18.84	19.00	1.038	0.679	22.6
Right side	802.11a	116/5580		1.004	1.530	0.07	18.84	19.00	1.038	1.595	22.6
Top side		116/5580		1.004	1.760	0.03	18.84	19.00	1.500	2.650	22.6
	802.11a										
Top side	802.11a	140/5700	39.03%	1.004	1.320	0.08	18.78	19.00	1.500	1.987	22.6



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							ige:	110 01 1	۷۱		
	(Ant17+A	nt18)MIM	0 simul	taneous t	ransmissi	on with \	WWAN Test F	Record 2			
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	•		Н	ead Test o	ata of U-N	III-2A	•				
Left cheek	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.761	0.07	15.68	10.50	0.303	0.232	22.1
Left tilted	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.539	0.01	15.68	10.50	0.303	0.164	22.1
Right cheek	802.11ac VHT80 MCS0	58/5290	99.63%	1.004	0.264	0.06	15.68	10.50	0.303	0.080	22.1
Right tilted	802.11ac VHT80 MCS0	58/5290		1.004	0.251	-0.02	15.68	10.50	0.303	0.076	22.1
			He	ead Test c	lata of U-N	III-2C					
Left cheek	802.11ac VHT80 MCS0	138/5690	99.63%	1.004	0.714	0.09	16.54	11.00	0.279	0.200	22.6
Left cheek	802.11ac VHT80 MCS0	106/5530	99.63%	1.004	0.683	0.13	16.03	11.00	0.314	0.215	22.6
Left tilted	802.11ac VHT80 MCS0			1.004	0.762	0.06	16.54	11.00	0.279	0.214	22.6
Left tilted	802.11ac VHT80 MCS0	106/5530	99.63%	1.004	0.721	0.01	16.03	11.00	0.314	0.227	22.6
Right cheek	802.11ac VHT80 MCS0			1.004	0.401	-0.02	16.54	11.00	0.279	0.112	22.6
Right tilted	802.11ac VHT80 MCS0	138/5690	99.63%	1.004	0.467	0.01	16.54	11.00	0.279	0.131	22.6
			H	lead Test	data of U-l	NII-3					
Left cheek	802.11ac VHT80 MCS0			1.004	0.608	0.01	18.58	13.00	0.277	0.169	22.0
Left tilted	802.11ac VHT80 MCS0	155/5775	99.63%	1.004	0.825	0.03	18.58	13.00	0.277	0.229	22.0
Right cheek	802.11ac VHT80 MCS0			1.004	0.293	0.06	18.58	13.00	0.277	0.081	22.0
Right tilted	802.11ac VHT80 MCS0			1.004	0.417	0.11	18.58	13.00	0.277	0.116	22.0
					f U-NII-1(S	Separate					
Front side	802.11a	40/5200		1.005	0.200	0.01	21.57	22.50	1.239	0.249	22.1
Back side	802.11a	40/5200			0.169	0.02	21.57	22.50	1.239	0.210	22.1
	1				U-NII-2C(
Front side	802.11a	116/5580		1.005	0.207	-0.07	18.84	17.00	0.655	0.136	22.6
Back side	802.11a	116/5580		1.005	0.308	-0.17	18.84	17.00	0.655	0.203	22.6
					f U-NII-3(S						
Front side	802.11a	157/5785		1.005	0.165	0.11	21.44	19.00	0.570	0.095	22.0
Back side	802.11a	157/5785		1.005	0.416	0.06	21.44	19.00	0.570	0.238	22.0
	•				U-NII-1(Se		. /				
Front side	802.11a	40/5200		1.005	0.365	0.09	21.40	19.50	0.646	0.237	22.1
Back side	802.11a	40/5200		1.005	0.286	0.04	21.40	19.50	0.646	0.186	22.1
Right side	802.11a	40/5200		1.005	0.368	0.01	21.40	19.50	0.646	0.239	22.1
Top side	802.11a	40/5200		1.005	0.306	0.02	21.40	19.50	0.646	0.199	22.1
F	1 000.11				J-NII-3 (Se			10.00	0.000	0.000	20.0
Front side	802.11a	157/5785		1.005	0.237	0.03	21.44	16.00	0.286	0.068	22.0
Back side	802.11a	157/5785		1.005	0.422	0.09	21.44	16.00	0.286	0.121	22.0
Right side	802.11a	157/5785		1.005	0.324	0.05	21.44	16.00	0.286	0.093	22.0
Top side	802.11a	157/5785		1.005	0.827	-0.11	21.44	16.00	0.286	0.237	22.0

Table 31: SAR of WIFI 5G for Head and Body. Note:

1) As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.



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8.2.2 SAR Result of BT

				Ant18	Test Rec	ord					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
					d Test data	<u> </u>				(W/Kg/	
Left cheek	DH5	39/2441	77.00%	1.299	0.512	-0.09	18.25	19.00	1.189	0.790	22.5
Left tilted	DH5	39/2441	77.00%	1.299	0.447	0.03	18.25	19.00	1.189	0.690	22.5
Right cheek	DH5	39/2441	77.00%	1.299	0.344	0.04	18.25	19.00	1.189	0.531	22.5
Right tilted	DH5	39/2441	77.00%	1.299	0.056	0.02	18.25	19.00	1.189	0.087	22.5
. ng. n mou	20	30/2:::				arate 15mm				0.007	
Front side	DH5	39/2441	77.00%	1.299	0.091	0.04	18.25	17.00	0.750	0.088	22.5
Back side	DH5	39/2441	77.00%	1.299	0.111	0.08	18.25	17.00	0.750	0.108	22.5
						rate 10mm)					
Front side	DH5	39/2441	77.00%	1.299	0.181	-0.02	18.25	17.00	0.750	0.176	22.5
Back side	DH5	39/2441	77.00%	1.299	0.227	0.12	18.25	17.00	0.750	0.221	22.5
Right side	DH5	39/2441	77.00%	1.299	0.239	0.01	18.25	17.00	0.750	0.233	22.5
Top side	DH5	39/2441	77.00%	1.299	0.026	0.09	18.25	17.00	0.750	0.026	22.5
					Test Rec						
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty	SAR (W/kg)	Power drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- a	Liquid Temp.(℃
				factor	1-g	(dB)	, í	,		(W/kg)	
				Head	d Test data	a					
Left cheek	DH5	39/2441	77.00%	1.299	0.507	0.03	18.19	19.00	1.205	0.793	22.5
Left tilted	DH5	39/2441	77.00%	1.299	0.510	0.01	18.19	19.00	1.205	0.798	22.5
Right cheek	DH5	39/2441	77.00%	1.299	0.261	0.03	18.19	19.00	1.205	0.408	22.5
Right tilted	DH5	39/2441	77.00%	1.299	0.329	0.02	18.19	19.00	1.205	0.515	22.5
						arate 15mm					
Front side	DH5	39/2441	77.00%	1.299	0.077	0.01	18.19	19.00	1.205	0.121	22.5
Back side	DH5	39/2441	77.00%	1.299	0.138	0.04	18.19	19.00	1.205	0.216	22.5
						rate 10mm)					
Front side	DH5	39/2441	77.00%	1.299	0.177	0.04	18.19	19.00	1.205	0.277	22.5
Back side	DH5	39/2441	77.00%	1.299	0.199	0.01	18.19	19.00	1.205	0.311	22.5
Right side	DH5	39/2441	77.00%	1.299	0.040	0.01	18.19	19.00	1.205	0.063	22.5
Top side	DH5	39/2441	77.00%	1.299	0.161	0.15	18.19	19.00	1.205	0.252	22.5
		Ant18 si	multaneous	s transr	nission w	ith WWAN	Test Record			_	
				Duty	SAR	Power		_		Scaled	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Cycle	(W/kg)	drift	Conducted	Tune up	Scaled		Liquid
			, .,	factor	1-g	(dB)	Power(dBm)	Limit(dBm)	tactor	g (W/kg)	Temp.(℃
l eft else els	DUE	00/0444	77.000/		d Test data		40.05	10.50	0.005	0.000	00.5
Left cheek	DH5	39/2441	77.00%	1.299	0.512	-0.09	18.25	13.50	0.335	0.223	22.5
Left tilted	DH5	39/2441	77.00%	1.299	0.447	0.03	18.25	13.50	0.335	0.194	22.5
Right cheek	DH5	39/2441	77.00%	1.299	0.344	0.04	18.25	13.50	0.335	0.150	22.5
Right tilted	DH5	39/2441	77.00%	1.299	0.056	0.02	18.25	13.50	0.335	0.024	22.5
Frant side	DUE	20/0444				rate 10mm)	10.05	17.00	0.750	0.170	00.5
Front side	DH5	39/2441	77.00%	1.299	0.181	-0.02	18.25	17.00	0.750	0.176	22.5
Back side	DH5	39/2441	77.00%	1.299	0.227	0.12	18.25	17.00	0.750	0.221	22.5
Right side	DH5	39/2441	77.00%	1.299	0.239	0.01	18.25	17.00	0.750	0.233	22.5
Top side	DH5	39/2441	77.00%	1.299	0.026	0.09	18.25	17.00	0.750	0.026	22.5



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						. α	.go.	112 01 1			
		Ant16 sir	multaneou	s transn	nission w	ith WWAN	Test Record				
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				Head	d Test data	а					
Left cheek	DH5	39/2441	77.00%	1.299	0.507	0.03	18.19	13.50	0.340	0.224	22.5
Left tilted	DH5	39/2441	77.00%	1.299	0.510	0.01	18.19	13.50	0.340	0.225	22.5
Right cheek	DH5	39/2441	77.00%	1.299	0.261	0.03	18.19	13.50	0.340	0.115	22.5
Right tilted	DH5	39/2441	77.00%	1.299	0.329	0.02	18.19	13.50	0.340	0.145	22.5
			Hotspo	ot Test da	ata (Sepai	rate 10mm)					
Front side	DH5	39/2441	77.00%	1.299	0.177	0.04	18.19	17.00	0.760	0.175	22.5
Back side	DH5	39/2441	77.00%	1.299	0.199	0.01	18.19	17.00	0.760	0.196	22.5
Right side	DH5	39/2441	77.00%	1.299	0.040	0.01	18.19	17.00	0.760	0.039	22.5
Top side	DH5	39/2441	77.00%	1.299	0.161	0.15	18.19	17.00	0.760	0.159	22.5

Table 32: SAR of BT for Head and Body.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

• Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WIFI 5G MIMO + BT1	Υ	Υ	Υ	Υ
2	WWAN + WIFI 5G MIMO + BT2	Υ	Υ	Υ	Υ
3	WWAN + WIFI 2.4G MIMO + WIFI 5G MIMO	Υ	Υ	Υ	Y
4	WWAN + WIFI 5G MIMO	Υ	Υ	Υ	Υ
5	WWAN + WIFI 2.4G MIMO	Υ	Υ	Υ	Y

Note: BT1= BT ANT18 BT2=BT ANT16





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8.3.2 Simultaneous Transmission SAR Summation Scenario Simultaneous Transmission SAR Summation Scenario for WLAN Head:

LTE Band (EN_DC)	Exposure position	LTE Band7 Ant0/2/3/5	n5	EN_DC Summed SAR
	Left cheek	0.385	0.385	0.770
5N-7A	Left tilted	0.385	0.154	0.539
SIN-7A	Right cheek	0.385	0.296	0.681
	Right tilted	0.385	0.150	0.535

LTE Band (EN_DC)	Exposure position	LTE Band5 Ant0/1	n7 Ant0/2/3/5	EN_DC Summed SAR
	Left cheek	0.442	0.285	0.727
711.54	Left tilted	0.099	0.253	0.352
7N-5A	Right cheek	0.302	0.246	0.548
	Right tilted	0.091	0.253	0.344

LTE Band (EN_DC)	Exposure position	Ant0/1	Ant0/2/3/5	n78 Ant4/6/7/8	EN_DC Summed SAR
	Left cheek	0.442	/	0.553	0.995
Band 5	Left tilted	0.099	/	0.553	0.652
band 5	Right cheek	0.302	/	0.553	0.855
	Right tilted	0.091	/	0.553	0.644
	Left cheek	/	0.385	0.553	0.938
Band 7	Left tilted	/	0.385	0.553	0.938
Band /	Right cheek	/	0.385	0.553	0.938
	Right tilted	/	0.385	0.553	0.938
	Left cheek	/	0.355	0.553	0.908
Band 38/41	Left tilted	/	0.284	0.553	0.837
Dallu 38/41	Right cheek	/	0.477	0.553	1.030
	Right tilted	/	0.540	0.553	1.093

				SARmax (W/k	g)				
Test position		Main Ant			BT 1	BT 2	Summed SAR		
		1	2	3	4	5	1+2+3	1+3+5	1+3+4
	Left cheek	0.995	0.232	0.232	0.223	0.224	1.459	1.450	1.451
All ENDC	Left tilted	0.938	0.232	0.229	0.194	0.225	1.399	1.361	1.392
All ENDC	Right cheek	1.030	0.119	0.112	0.150	0.115	1.261	1.292	1.257
	Right tilted	1.093	0.088	0.131	0.024	0.145	1.312	1.248	1.369



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				S	ARmax (W/ko	g)					
Test p	oosition	LTE Band4	LTE Band7	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Summed SAR 1+2+3+4		R	
		1	2	3	4	5	6			1+3+4+6	
	Left cheek	0.665	0.385	0.232	0.232	0.223	0.224	1.514	1.505	1.506	
	Left tilted	0.665	0.385	0.232	0.229	0.194	0.225	1.511	1.473	1.504	
UL CA 4A_7A	Right cheek	0.915	0.385	0.119	0.112	0.150	0.115	1.531	1.562	1.527	
	Right tilted	0.665	0.385	0.088	0.131	0.024	0.145	1.269	1.205	1.326	

				SARmax (W/k	g)					
Test position		Main Ant	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Γ 2 Summed S		SAR	
		1	2	3	4	5	1+2+3	1+3+5	1+3+4	
	Left cheek	1.040	0.232	0.232	0.223	0.224	1.504	1.495	1.496	
ALL WWAN	Left tilted	1.081	0.232	0.229	0.194	0.225	1.542	1.504	1.535	
Standalone	Right cheek	1.092	0.119	0.112	0.150	0.115	1.323	1.354	1.319	
	Right tilted	1.071	0.088	0.131	0.024	0.145	1.290	1.226	1.347	

Simultaneous Transmission SAR Summation Scenario for WLAN Body: **Body-worn:**

	LTE Band (EN_DC)	Exposure position	LTE Band7 Ant0/2/3/5	n5	EN_DC Summed SAR
Γ	5N-7A	Front side	0.475	0.337	0.812
	SIN-7A	Back side	0.475	0.357	0.832

LTE Band (EN_DC)	Exposure position	LTE Band5 Ant0/1	n7	EN_DC Summed SAR
7N-5A	Front side	0.293	0.433	0.726
AC-N1	Back side	0.344	0.556	0.900

LTE Band (EN DC)	Exposure position	Ant0/1	Ant0/2/3/5	n78(3450-3550)	EN_DC Summed SAR
(214_50)				Ant1	Carrinica O/411
Band 5	Front side	0.293	/	0.345	0.638
band 5	Back side	0.344	/	0.541	0.885
Band 7	Front side	/	0.475	0.345	0.820
Dallu 7	Back side	/	0.475	0.541	1.016
Band 38/41	Front side	/	0.433	0.345	0.778
	Back side	/	0.544	0.541	1.085



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			SARmax (W/kg)									
Test position		Main Ant	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Sı	ummed SA	AR .			
		1	2	4	6	7	1+2+3	1+3+5	1+3+4			
All ENDC	Front side	0.820	0.122	0.249	0.088	0.121	1.191	1.157	1.190			
All ENDC	Back side	1.085	0.242	0.238	0.108	0.216	1.565	1.431	1.539			

				S	ARmax (W/ko	g)					
Test p	osition	LTE Band4	LTE Band7	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Summed SAR			
		1	2	3	4	5	6	1+2+3+4	1+3+4+5	1+3+4+6	
UL CA	Front side	0.455	0.475	0.122	0.249	0.088	0.121	1.301	1.267	1.300	
4A_7A	Back side	0.549	0.501	0.242	0.238	0.108	0.216	1.530			

Test position			SARmax (W/kg)									
		Main Ant	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Sı	ummed SA	AR.			
		1	2	4	6	7	1+2+3	1+3+5	1+3+4			
ALL WWAN	Front side	0.693	0.122	0.249	0.088	0.121	1.064	1.030	1.063			
Standalone	Back side	1.085	0.242	0.238	0.108	0.216	1.565	1.431	1.539			

Hotspot:

Hotspot.				
LTE Band (EN_DC)	Exposure position	Exposure position LTE Band7 Ant0/2/3/5		EN_DC Summed SAR
	Front side	0.411	0.501	0.912
	Back side	0.411	0.549	0.960
5N-7A	Left side	0.411	0.421	0.832
	Right side	0.411	0.295	0.706
	Top side	0.411	0.000	0.411
	Bottom side	0.411	0.264	0.675

LTE Band (EN_DC)	Exposure position	Exposure position LTE Band5 Ant0/1		EN_DC Summed SAR
	Front side	0.439	0.518	0.957
	Back side	0.545	0.613	1.158
7N-5A	Left side	0.469	0.396	0.865
	Right side	0.271	0.183	0.454
	Top side	0.000	0.197	0.197
	Bottom side	0.218	0.629	0.847



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LTE Band (EN_DC)	Exposure position	Ant0/1	Ant0/2/3/5	n78(3450-3550)	EN_DC Summed SAR
	Front side	0.439	/	0.504	0.943
	Back side	0.545	/	0.504	1.049
	Left side	0.469	/	0.504	0.973
Band 5	Right side	0.271	/	0.504	0.775
	Top side	0.000	/	0.504	0.504
	Bottom side	0.218	/	0.504	0.722
	Front side	/	0.411	0.504	0.915
	Back side	/	0.411	0.504	0.915
B 17	Left side	/	0.411	0.504	0.915
Band 7	Right side	/	0.411	0.504	0.915
	Top side	/	0.411	0.504	0.915
	Bottom side	/	0.411	0.504	0.915
	Front side	/	0.359	0.504	0.863
	Back side	/	0.549	0.504	1.053
Band 38/41	Left side	/	0.512	0.504	1.016
Dand 38/41	Right side	/	0.512	0.504	1.016
	Top side	/	0.399	0.504	0.903
	Bottom side	/	0.356	0.504	0.860

				SARmax (W/k	g)				
Test position		Main Ant	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Sı	ummed SA	AR
		1	2	4	6	7	1+2+3	1+3+5	1+3+4
	Front side	0.957	0.143	0.237	0.176	0.175	1.337	1.370	1.369
	Back side	1.158	0.247	0.186	0.221	0.196	1.591	1.565	1.540
All ENDC	Left side	1.016	/	/	/	/	1.016	1.016	1.016
All ENDC	Right side	1.016	0.214	0.239	0.233	0.039	1.469	1.488	1.294
	Top side	0.915	0.109	0.237	0.026	0.159	1.261	1.178	1.311
	Bottom side	0.915	/	/	/	/	0.915	0.915	0.915

				S	ARmax (W/kg	g)				
Test	position	LTE Band4	LTE Band7	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Summed SAR		R
		1	2	3	4	5	6	1+2+3+4	1+3+4+5	1+3+4+6
	Front side	0.506	0.411	0.143	0.237	0.176	0.175	1.297	1.330	1.329
	Back side	0.687	0.465	0.247	0.186	0.221	0.196	1.585	1.559	1.534
UL CA	Left side	0.408	0.230	/	/	/	/	0.638	0.638	0.638
4A_7A	Right side	0.400	0.230	0.214	0.239	0.233	0.039	1.083	1.102	0.908
	Top side	0.285	0.230	0.109	0.237	0.026	0.159	0.861	0.778	0.911
	Bottom side	1.040	0.466	/	/	/	1	1.506	1.506	1.506



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				SARmax (W/k	g)				
Test position		Main Ant	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Sı	ummed SA	AR .
		1	2	4	6	7	1+2+3	1+3+5	1+3+4
	Front side	0.647	0.143	0.237	0.176	0.175	1.027	1.060	1.059
	Back side	0.799	0.247	0.186	0.221	0.196	1.232	1.206	1.181
ALL WWAN	Left side	1.053	/	/	/	/	1.053	1.053	1.053
Standalone	Right side	0.548	0.214	0.239	0.233	0.039	1.001	1.020	0.826
	Top side	0.868	0.109	0.237	0.026	0.159	1.214	1.131	1.264
	Bottom side	1.040	/	/	/	/	1.040	1.040	1.040

Product specific 10a SAR-

i iouuci specilic	iog Cail.								
				SARmax (W/k	g)				
Test position		Main Ant	WiFi 2.4G MIMO	WiFi 5G MIMO	BT 1	BT 2	Sı	ummed SA	IR.
		1	2	4	6	7	1+2+3	1+3+5	1+3+4
	Front side	0.969	/	1.413	/	/	2.382	2.382	2.382
	Back side	1.027	/	0.728	/	/	1.755	1.755	1.755
ALL WWAN	Left side	2.584	/	/	/	/	2.584	2.584	2.584
Standalone	Right side	/	/	1.969	/	/	/	/	1.969
	Top side	/	/	2.650	/	/	/	/	2.650
	Bottom side	/	/	/	/	/	/	/	/



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9 Equipment list

Test Platform		SPEAG DASY Professional							
Description		SAR Test System							
	Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)							
Hardware Reference									
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration			
\boxtimes	Twin Phantom	SPEAG	SAM1	1283	NCR	NCR			
\boxtimes	Twin Phantom	SPEAG	SAM2	1563	NCR	NCR			
	Twin Phantom	SPEAG	SAM3	1770	NCR	NCR			
	Twin Phantom	SPEAG	SAM5	1481	NCR	NCR			
	Twin Phantom	SPEAG	SAM6	1824	NCR	NCR			
\boxtimes	DAE	SPEAG	DAE4	1428	2021-04-09	2022-04-08			
\boxtimes	DAE	SPEAG	DAE4	1327	2021-11-05	2022-11-04			
	DAE	SPEAG	DAE4	1324	2021-06-22	2022-06-21			
	DAE	SPEAG	DAE4	1374	2021-11-05	2022-11-04			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3962	2021-04-26	2022-04-25			
	E-Field Probe	SPEAG	EX3DV4	7620	2021-08-24	2022-08-23			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3789	2021-08-12	2022-08-11			
	E-Field Probe	SPEAG	EX3DV4	3982	2021-12-29	2022-12-28			
	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07			
\boxtimes	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14			
\boxtimes	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28			
\boxtimes	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26			
\boxtimes	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07			
\boxtimes	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11			
\boxtimes	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16			
\boxtimes	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16			
\boxtimes	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19			
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1174	2020-08-27	2023-08-26			
	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2021-02-24	2022-02-23			
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2021-03-02	2022-03-01			



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				raye. n	20 01 12 1	
	Universal Radio Communication Tester	R&S	CMW500	111637	2021-09-29	2022-09-28
\boxtimes	Radio Communication Analyzer	Anritsu	MT8820C	6201010267	2021-04-01	2022-03-31
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
	Signal Generator	R&S	SMB100A	182393	2021-02-20	2022-02-19
	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
\boxtimes	Power Meter	Aglient	E4419B	6843318103	2021-06-08	2022-06-07
\boxtimes	Power Sensor	Aglient	E9301A	MY41496508	2021-09-09	2022-09-08
\boxtimes	Power Sensor	Aglient	E9301H	MY41495605	2021-06-08	2022-06-07
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2021-10-09	2022-10-08
	Humidity and Temperature Indicator	MingGao	MingGao	NA	2021-06-16	2022-06-15

Note: All the equipments 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

Appendix F: Antenna Locations

---END---



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