

SUCR250100002701 Report No.:

Rev.: 01 Page: 1 of 153

# FCC SAR TEST REPORT

SUCR2501000027WM **Application No.:** Applicant: TCL Communication Ltd. Manufacturer: TCL Communication Ltd.

**Product Name:** Smartphone Model No.(EUT): T519N, T521N FCC ID: 2ACCJH190

Standards: FCC 47CFR §2.1093

**Date of Receipt:** 2025-01-08

**Date of Test:** 2025-01-19 to 2025-01-27

Date of Issue: 2025-02-06 **Test conclusion:** PASS \*

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

Prepared by: Leon Liu/ Project Manager

Approved by: Nick HU/ Technical Manager

Nick Vhu

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Report No.: SUCR250100002701

Rev.: 01 Page: 2 of 153

	Revision Record				
Version	Description	Date	Remark		
01	Original	2025-02-06			

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Report No.: SUCR250100002701

Rev.: 01 Page: 3 of 153

#### **TEST SUMMARY**

	Maximum Reported SAR(W/kg)					
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR		
GSM850	1.18	0.41	0.73	1		
GSM1900	1.26	0.39	0.88	1		
WCDMA Band II	0.68	0.34	0.66	1		
WCDMA Band IV	0.94	0.32	0.64	1		
WCDMA Band V	0.81	0.36	0.73	1		
LTE Band 7	0.41	0.30	0.62	1		
LTE Band 12(17)	0.73	0.15	0.34	1		
LTE Band 13	1.11	0.23	0.50	1		
LTE Band 14	1.17	0.25	0.60	1		
LTE Band 25(2)	0.46	0.26	0.58	1		
LTE Band 26(5)	0.86	0.28	0.62	1		
LTE Band 38	0.36	0.22	0.78	1.03		
LTE Band 41	0.25	0.20	0.32	1		
LTE Band 42	0.48	0.64	0.76	3.10		
LTE Band 48	0.66	0.50	0.64	1		
LTE Band 66(4)	0.60	0.26	0.89	1		
LTE Band 71	0.06	0.07	0.09	1		
NR Band n2	0.58	0.43	0.70	1		
NR Band n5	1.34	0.35	0.72	1		
NR Band n7	0.38	0.41	0.51	1		
NR Band n41	0.37	0.34	0.68	1		
NR Band n48	0.49	0.45	0.82	1		
NR Band n66	0.75	0.29	0.88	1		
NR Band n71	0.07	0.07	0.17	1		
NR Band n78	0.55	0.47	0.69	1		
WI-FI (2.4GHz)	0.42	0.11	0.14	1		
WI-FI (5GHz)	0.82	0.35	0.15	1.43		
ВТ	0.04	0.04	0.07	1		
NFC	1	1	/	0.01		
SAR Limited(W/kg)		1.6		4.0		
Ma	ximum Simultaneo	us Transmission SA	R (W/kg)			
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR		
Sum SAR	1.59	1.13	1.49	3.99		
SPLSR	1	1	/	1		
SPLSR Limited		0.1				

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Report No.: SUCR250100002701

Rev.: 01 Page: 4 of 153

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

According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 2 (Frequency range:1850 - 1910 MHz)/LTE Band 4 (Frequency range:1710 - 1755 MHz)/LTE Band 5 (Frequency range:824 - 849 MHz)/ LTE band 17 (frequency range: 704-716 MHz) is respectively covered by LTE Band66 (Frequency range:1710 - 1780 MHz)/LTE Band25 (Frequency range:1850 - 1915 MHz)/LTE Band26 (Frequency range:814 - 849 MHz)/LTE band 12 (frequency range: 699-716 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band. Remark:

T519N and T521N are identical except:

- 1. Change pin to pin memory from 4+128 to 6+256G
- 2. T521N add Eye protection coating on LCD
- 3. T521N adds an additional compatible charging IC chip, and the charging power is changed from 10W to 18W, and the peripheral circuitry remains unchanged
- 4. T521N add extra side key

Therefore, only T519N has been tested in this report.

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Report No.: SUCR250100002701

Rev.: 01 Page: 5 of 153

### **CONTENTS**

1 GENERAL INFORMATION	8
1.1 Details of Client	8
1.4.1 DUT Antenna Locations (Back View)	
1.6 RF exposure limits	15
2 LABORATORY ENVIRONMENT	16
3 SAR MEASUREMENTS SYSTEM CONFIGURATION	17
3.1 The SAR Measurement System	
3.2 Isotropic E-field Probe EX3DV4	
3.3 Data Acquisition Electronics (DAE)	
3.4 SAM Twin Phantom	
3.6 Device Holder for Transmitters	
3.7 Measurement procedure	
3.7.1 Scanning procedure	
3.7.2 Data Storage	
3.7.3 Data Evaluation by SEMCAD	25
4 SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	27
4.1 SAR measurement variability	27
4.2 SAR measurement uncertainty	27
5 DESCRIPTION OF TEST POSITION	29
5.1 Head Exposure Condition	29
5.1.1 SAM Phantom Shape	
5.1.2 EUT constructions	
5.1.3 Definition of the "cheek" position	
5.2 Extremity exposure conditions	
5.2.1 Definition of the "tilted" position	
5.3.1 Body-worn accessory exposure conditions	
5.3.2 Wireless Router exposure conditions	
6 SAR SYSTEM VERIFICATION PROCEDURE	34
6.1 Tissue Simulate Liquid	34
6.1.1 Recipes for Tissue Simulate Liquid	34

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Report No.: SUCR250100002701

Rev.: 01 Page: 6 of 153

6.1.2 Measurement for Tissue Simulate Liquid	35
6.2 SAR System Check	36
6.2.1 Justification for Extended SAR Dipole Calibrations	
6.2.2 Summary System Check Result(s)	
6.2.3 Detailed System Check Results	38
7 TEST CONFIGURATION	39
7.1 3G SAR Test Reduction Procedure	39
7.2 Operation Configurations	39
7.2.1 GSM Test Configuration	39
7.2.2 WCDMA Test Configuration	40
7.2.3 WiFi Test Configuration	
7.2.4 Duty cycle	
7.2.5 LTE Test Configuration	
7.2.6 NR Band Test Configuration	57
8 TEST RESULT	61
8.1 Measurement of RF Conducted Power	
8.2 Measurement of SAR Data	
8.2.1 SAR Result of GSM850	
8.2.2 SAR Result of GSM1900	
8.2.3 SAR Result of WCDMA Band 2	
8.2.4 SAR Result of WCDMA Band 4	
8.2.5 SAR Result of WCDMA Band 5	
8.2.6 SAR Result of LTE Band 7 8.2.7 SAR Result of LTE Band 12	
8.2.8 SAR Result of LTE Band 12	
8.2.9 SAR Result of LTE Band 14	
8.2.10 SAR Result of LTE Band 25	
8.2.11 SAR Result of LTE Band 26	
8.2.12 SAR Result of LTE Band 38	
8.2.13 SAR Result of LTE Band 41	
8.2.14 SAR Result of LTE Band 42	
8.2.15 SAR Result of LTE Band 48	
8.2.16 SAR Result of LTE Band 66	
8.2.17 SAR Result of LTE Band 71	
8.2.18 SAR Result of 5G NR n2	
8.2.19 SAR Result of 5G NR n5	92
8.2.20 SAR Result of 5G NR n7	94
8.2.21 SAR Result of 5G NR n41	96
8.2.22 SAR Result of 5G NR n48	
8.2.23 SAR Result of 5G NR n66	
8.2.24 SAR Result of 5G NR n71	
8.2.25 SAR Result of 5G NR n78	
8.2.26 SAR Result of WIFI 2.4G	
8.2.27 SAR Result of WIFI 5G	

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SUCR250100002701 Report No.:

Rev.: 01 Page: 7 of 153

8.2.28 SAR Result of BT	107
8.2.29 SAR Result of NFC	108
8.3 Multiple Transmitter Evaluation 8.3.1 Simultaneous SAR test evaluation	109
8.3.1 Simultaneous SAR test evaluation	109
8.3.2 Simultaneous Transmission SAR Summation Scenario	110
9 EQUIPMENT LIST	151
10 CALIBRATION CERTIFICATE	153
11 PHOTOGRAPHS	153
APPENDIX A: DETAILED SYSTEM CHECK RESULTS	153
APPENDIX B: DETAILED TEST RESULTS	153
APPENDIX C: CALIBRATION CERTIFICATE	
APPENDIX D: PHOTOGRAPHS	153
APPENDIX E: CONDUCTED RF OUTPUT POWER	153

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Report No.: SUCR250100002701

Rev.: 01 Page: 8 of 153

#### 1 General Information

#### 1.1 Details of Client

Applicant:	TCL Communication Ltd.	
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong	
Manufacturer:	TCL Communication Ltd.	
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong	

#### 1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.	
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Post code:	215000	
Test Engineer:	Xu Bert; Liu Leon-l	

### 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

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Designation Number: CN1312.

Test Firm Registration Number: 0031225543

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Report No.: SUCR250100002701

Rev.: 01 Page: 9 of 153

### 1.4 General Description of EUT

Device Type :	portable device				
Exposure Category:	uncontrolled environment / general population				
Product Name:	Smartphone				
Model No.(EUT):	T519N, T521N				
Product Phase:	Production Unit				
Hardware Version:	06				
Software Version:	5JS8				
	#3 354924950003379/35493	24950003445			
IMEI:	#4 354924950003098/354924950003106				
	#5 354924950003395/35493	24950003460			
Device Operating Configuration					
	GSM: GMSK, 8PSK; WCDN				
	LTE: QPSK,16QAM, 64QAM	พ, 256QAM; BPSK, QPSK, 16QAM, 64QAM	L 2560AM)		
Modulation Mode:	CP-OFDM (QPSK, 16QAM,		i, 230QAWI),		
	WIFI: DSSS, OFDM; BT: G				
	NFC: ASK				
Device Class:	В				
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12		
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)				
Fower Class	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		
Frequency Bands:	LTE Band 5	824 - 849	869 - 894		
	LTE Band 7	2500 - 2570	2620 - 2690		
	LTE Band 12	699 - 716	729 - 746		
	LTE Band 13	777 - 787	746 - 756		
	LTE Band 14	788 - 798	758 - 768		
	LTE Band 17	704 - 716	734 - 746		
	LTE Band 25	1850 - 1915	1930 - 1995		
	LTE Band 26	814 – 849	859 - 894		
	LTE Band 66	1710 - 1780	2110 - 2200		

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Report No.: SUCR250100002701

Rev.: 01

Page: 10 of 153

	LTE Band 71	663-698	617-652	
	LTE Band 38	2570 - 2620	2570 - 2620	
	LTE Band 41	2496 - 2690	2496 - 2690	
	LTE Band 42	3450 - 3600	3450 - 3600	
	LTE Band 48	3550 - 3700	3550 - 3700	
	NR Band n2	1850 - 1910	1930 - 1990	
	NR Band n5	824 - 849	869 - 894	
	NR Band n7	2500 - 2570	2620 - 2690	
	NR Band n66	1710 - 1780	2110 - 2200	
	NR Band n41(NSA only)	2496 - 2690	2496 - 2690	
	NR Band n48(NSA only)	3550 - 3700	3550 - 3700	
	NR Band n71	663 – 698	617 – 652	
	NR Band n78	3450 - 3700	3450 - 3700	
	Bluetooth	2400 - 2483.5	2400 - 2483.5	
	Wi-Fi 2.4G	2412 - 2462	2412 - 2462	
		5150 - 5250	5150 - 5250	
	Wi-Fi 5G	5250 - 5350	5250 - 5350	
	WI-FI 3G	5470 - 5725	5470 - 5725	
		5725 - 5850	5725 - 5850	
	NFC	13.56MHz	13.56MHz	
RF Cable:	☑ Provided by the applicant ☐ Provided by the laboratory			
	Model:	TLp050C7		
Battery Information:	Normal Voltage:	3.91V		
Ballery Illiornialion.	Rated capacity:	5000mAh		
	Manufacturer:	Dongguan Veken Battery Co.,Ltd		
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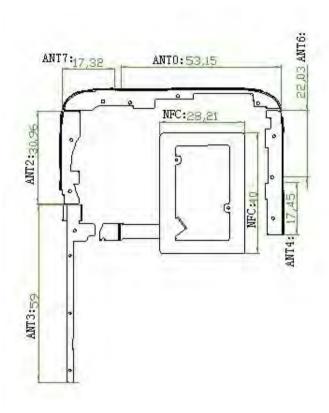


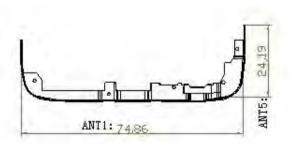
SUCR250100002701 Report No.:

Rev.: 01

Page: 11 of 153

#### 1.4.1 DUT Antenna Locations (Back View)





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SUCR250100002701 Report No.:

Rev.: 01

Page: 12 of 153

Ant	Band:
Ant0	GSM: G850 WCDMA: B5 LTE: B5/12/13/14/17/26/71 5G NR: N5/71
Ant1	LTE: B7/66 5G NR: N66/41
Ant2	GSM: G1900 WCDMA: B2/4 LTE: B2/4/25/42/48/66 5G NR: N2/48/66/78
Ant4	LTE: B7/38/41 5G NR: N7/41
Ant7	WIFI2.4G WIFI5G Bluetooth

#### Note:

The test device is a smart phone. The overall diagonal dimension of this device is 175 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

	EUT Sides for SAR Testing						
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Ant 0	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No
Ant 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant 7	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

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:

#### 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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Report No.: SUCR250100002701

Rev.: 01

Page: 13 of 153

### 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.
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and bodymounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02

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Report No.: SUCR250100002701

Rev.: 01

Page: 14 of 153

### 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.)

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<sup>\*</sup> 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

<sup>\*\*</sup> The Spatial Average value of the SAR averaged over the whole body.

<sup>\*\*\*</sup> 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.



SUCR250100002701 Report No.:

Rev.: 01

Page: 15 of 153

#### 1.6.1 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

- 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
- 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.

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 16 of 153

## 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 i	n compliance with requirement of standards.				

Table 1: The Ambient Conditions

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SUCR250100002701 Report No.:

Rev.: 01

Page: 17 of 153

## 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 DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-Simulate.

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

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

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

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

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

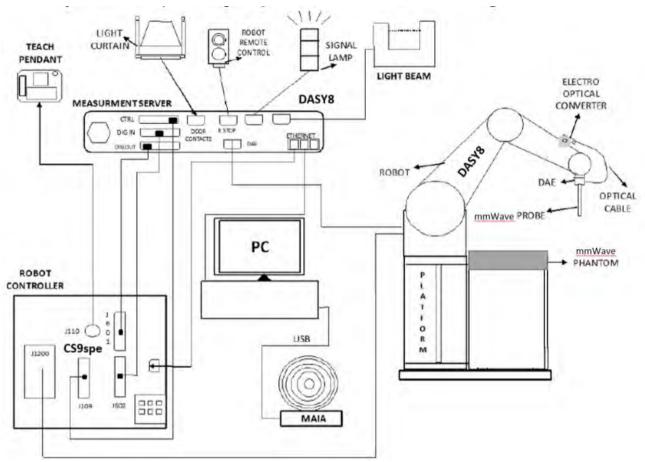
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Report No.: SUCR250100002701

Rev.: 01

Page: 18 of 153



F-1. SAR Measurement System Configuration

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 19 of 153

### 3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core
in the second	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 μW/g to > 100 mW/g
	Linearity: ± 0.2 dB (noise: typically < 1 μW/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	DASY52 SAR and higher, EASY4/MRI

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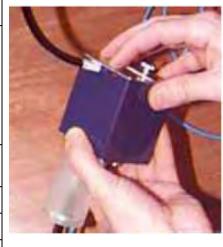
SUCR250100002701 Report No.:

Rev.: 01

Page: 20 of 153

## 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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SUCR250100002701 Report No.:

Rev.: 01

Page: 21 of 153

#### 3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	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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SUCR250100002701 Report No.:

Rev.: 01

Page: 22 of 153

#### 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  $\varepsilon=3$  and loss tangent  $\delta=0.02$ . The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

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Report No.: SUCR250100002701

Rev.: 01

Page: 23 of 153

### 3.7 Measurement procedure

### 3.7.1 Scanning procedure

#### Step 1: Power reference measurement

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

#### Step 2: Area scan

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

#### Step 3: Zoom scan

Around this point, a volume of 32mm\*32mm\*30mm (f≤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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Report No.: SUCR250100002701

Rev.: 01 Page: 24 of 153

			≤ 3 GHz	> 3 GHz	
	Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 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: $\Delta x_{Area}$ , $\Delta y_{Area}$			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 $\leq$ 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 <sub>Zoom</sub> , Δy <sub>Zoom</sub>	$\leq$ 2 GHz: $\leq$ 8 mm 2 - 3 GHz: $\leq$ 5 mm <sup>*</sup>	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform grid: Δz <sub>Zoom</sub> (n)		≤ 5 mm	$3 - 4 \text{ GHz} \le 4 \text{ mm}$ $4 - 5 \text{ GHz} \le 3 \text{ mm}$ $5 - 6 \text{ GHz} \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	ion, ntom	$\Delta z_{Zoom}(1)$ : between 1st 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	Δz <sub>Zoom</sub> (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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SUCR250100002701 Report No.:

Rev.: 01

Page: 25 of 153

#### 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/q], [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

Media parameters: - Conductivity

- Density

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DCtransmission 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:

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Wireless Laborator

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Report No.: SUCR250100002701

Rev.: 01

Page: 26 of 153

E-field probes:

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

H-field probes:

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

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

Normi = sensor sensitivity of channel I (i = x, y, z)

[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.

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

with SAR = local specific absorption rate in mW/g Etot = total field strength in V/m  $\sigma$ = conductivity in [mho/m] or [Siemens/m]  $\epsilon$ = equivalent tissue density in g/cm3

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

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

with 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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Report No.: SUCR250100002701

Rev.: 01

Page: 27 of 153

## 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 ≥ 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  $\ge 1.45$  W/kg ( $\sim 10\%$  from the 1-q 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.

IEC- 62209-1528 sets out the general test methods to be followed when carrying out an RF exposure compliance assessment of wireless devices implementing device-based time-averaging methods for the management and/or mitigation of specific absorption rate (SAR) in the 4 MHz to 6 GHz frequency band. It does not cover requirements that are based on power density above 6 GHz or requirements to protect against nerve stimulation for the frequency range from 3 kHz to 10MHz.

Measurements and results are all in compliance with the standards listed. All measurements and results are recorded and maintained at the laboratory performing the tests and measurement uncertainties are taken into account when comparing measurements to pass/ fail criteria. The Expanded uncertainty (95% CONFIDENCE INTERVAL) is **23.34**%.

а	b	С	d	e = f(d,k)	g	i = C*g/e	K
Uncertainty Component	Section in P1528	Tol (%)	Prob.Dist.	Div.	Ci (1g)	1g ui (%)	Vi(Veff)
Measurement system							
Probe calibration	7.2.2.1	7.4	N	1	1	7.40	∞

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Report No.: SUCR250100002701

Rev.: 01

Page: 28 of 153

Axial isotropy	7.2.2.2	1.2	R	√3	1	0.69	∞
hemispherical isotropy	7.2.2.2	3.2	R	√3	1	1.85	∞
Linearity	7.2.2.3	0.9	R	√3	1	0.52	∞
Probe modulation response	7.2.2.4	0	R	√3	1	0.00	∞
Detection limits	7.2.2.5	0.25	R	√3	1	0.14	∞
Boundary effect	7.2.2.6	1.0	R	√3	1	0.58	∞
Readout electronics	7.2.2.7	0.3	N	1	1	0.30	∞
Response time	7.2.2.8	0	R	√3	1	0.00	∞
Integration time	7.2.2.9	2.6	R	√3	1	1.50	∞
RF ambient conditions – noise	7.2.4.5	3	R	√3	1	1.73	∞
RF ambient conditions – reflections	7.2.4.5	3	R	√3	1	1.73	∞
Probe positioner mech. restrictions	7.2.3.1	1.5	R	√3	1	0.87	∞
Probe positioning with respect to phantom shell	7.2.3.3	2.9	R	√3	1	1.67	∞
Post-processing	7.2.5	1	R	√3	1	0.58	∞
		Test sample rel	ated				
Device holder uncertainty	7.2.3.4.2	3.6	N	1	1	3.60	∞
Test sample positioning	7.2.3.4.3	3.7	N	1	1	3.70	9
Power scaling	L.3	5.0	R	√3	1	2.89	∞
Drift of output power (measured SAR drift)	7.2.2.10	5	R	√3	1	2.89	∞
,	ı	Phantom and s	et-up				
Phantom uncertainty (shape and thickness tolerances)	7.2.3.2	4	R	√3	1	2.31	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	7.2.4.3	1.9	N	1	1	1.90	∞
Liquid conductivity (meas.)	7.2.4.3	5.78	N	1	0.78	4.51	4
Liquid permittivity (meas.)	7.2.4.3	0.62	N	1	0.23	0.14	5
Liquid permittivity –temperature uncertainty	7.2.4.4	0.2	R	√3	0.78	0.09	∞
Liquid conductivity –temperature uncertainty	7.2.4.4	5.37	R	√3	0.23	0.71	∞
Combined standard uncertainty	Combined standard uncertainty RSS 11.67 417						
Expanded uncertainty (95% CON	FIDENCE INTER	VAL) K=2				23.34	

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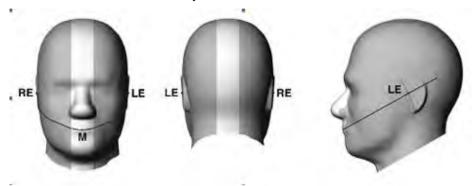
Rev.: 01

Page: 29 of 153

## **5 Description of Test Position**

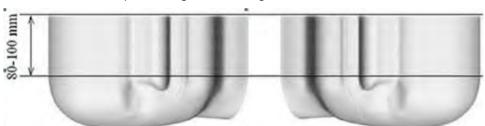
## **5.1 Head Exposure Condition**

#### 5.1.1 SAM Phantom Shape

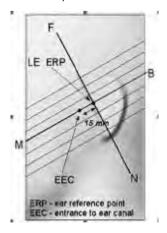


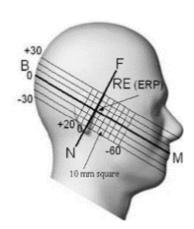
Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

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



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





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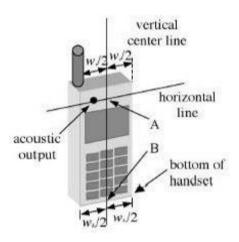
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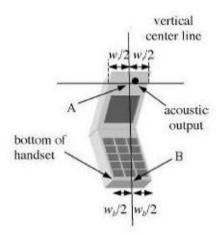
F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

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

#### 5.1.2 EUT constructions



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



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

#### 5.1.3 Definition of the "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.

### 5.2 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

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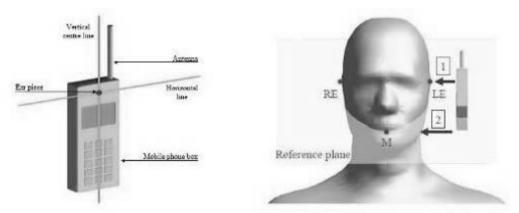
Page: 31 of 153

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.

#### 5.2.1 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

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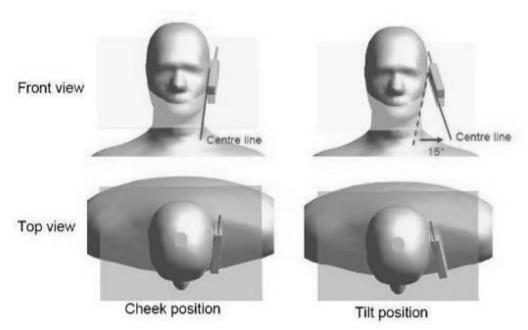
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SUCR250100002701 Report No.:

Rev.: 01

Page: 32 of 153



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

### 5.3 Body Exposure Condition

#### 5.3.1 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

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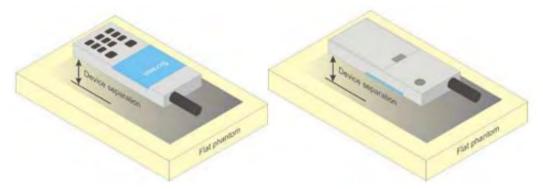
SUCR250100002701 Report No.:

Rev.: 01

Page: 33 of 153

contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

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



F-11. Test positions for body-worn devices.

#### 5.3.2 Wireless Router exposure conditions

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 34 of 153

## **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:

	<u> </u>				,				
Ingredients	Frequency (MHz)								
(% by weight)	450	700-900	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

Sucrose: 98+% Pure Sucrose

Water: De-ionized, 16 MΩ<sup>+</sup> resistivity

HEC: Hydroxyethyl Cellulose

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL13MHz is composed of the following ingredients:

Water: 50-90%

Non-ionic detergents: 5-50%

Nacl: 0-2%

Preservative: 0.03-0.1%

HSL5GHz is composed of the following ingredients:

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

Recipe of Tissue Simulate Liquid Table 2:

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Report No.: SUCR250100002701

Rev.: 01

Page: 35 of 153

#### 6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity  $(\sigma)$  and Permittivity  $(\rho)$  are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measurement for Tissue Simulate Liquid									
Measured		Target Tissue (±5%)		Measure	Measured Tissue		Deviation (Within ±5%)			
Tissue Type	Frequency (MHz)	ε <sub>r</sub>	σ(S/m)	ε <sub>r</sub>	σ(S/m)	ε <sub>r</sub>	σ(S/m)	Temp. (℃)	Test Date	
13 Head	13	55.0	0.75	57.257	0.766	4.10%	2.13%	22.3	2025/1/19	
750 Head	750	41.9	0.89	41.800	0.888	-0.24%	-0.22%	22.1	2025/1/10	
835 Head	835	41.5	0.90	42.100	0.911	1.45%	1.22%	22.5	2025/1/12	
1750 Head	1750	40.1	1.37	38.600	1.330	-3.74%	-2.92%	22.3	2025/1/13	
1950 Head	1950	40.0	1.40	38.800	1.420	-3.00%	1.43%	22.3	2025/1/15	
2450 Head	2450	39.2	1.80	39.100	1.790	-0.26%	-0.56%	22.5	2025/1/17	
2600 Head	2600	39.0	1.96	37.500	2.030	-3.85%	3.57%	22.4	2025/1/19	
2600 Head	2600	39.0	1.96	37.700	2.040	-3.33%	4.08%	22.4	2025/1/21	
3500 Head	3500	37.9	2.91	38.300	2.910	1.06%	0.00%	22.3	2025/1/23	
3700 Head	3700	37.7	3.12	37.900	3.070	0.53%	-1.60%	22.3	2025/1/24	
5250 Head	5250	35.9	4.71	36.000	4.650	0.28%	-1.27%	22.2	2025/1/25	
5600 Head	5600	35.5	5.07	35.300	5.120	-0.56%	0.99%	22.2	2025/1/26	
5750 Head	5750	35.4	5.22	35.000	5.290	-1.13%	1.34%	22.2	2025/1/27	

Table 3: Measurement result of Tissue electric parameters.

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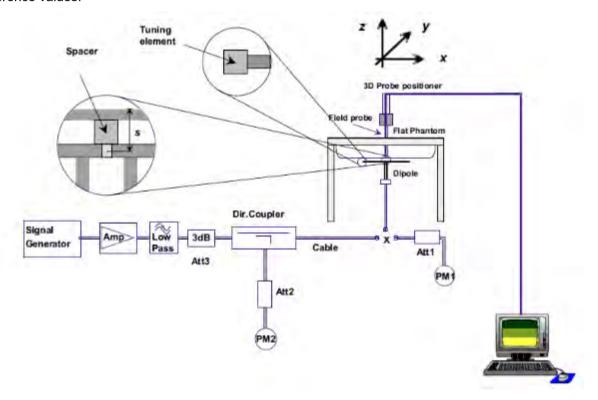
Report No.: SUCR250100002701

Rev.: 01

Page: 36 of 153

### 6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 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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Rev.: 01

Page: 37 of 153

### 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  $5\Omega$  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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Report No.: SUCR250100002701

Rev.: 01

Page: 38 of 153

### 6.2.2 Summary System Check Result(s)

	-			SAR Syst	em Validation	Result(s)					
Valid	dation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR	Target SAR (normalized to 1W) (±10%)		ation ±10%)	Liquid Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)	
CLA13	Head	0.114	0.072	0.46	0.29	0.421	0.266	8.31%	8.27%	22.3	2025/1/19
D750V3	Head	2.03	1.31	8.12	5.24	8.4	5.52	-3.33% -5.07%		22.1	2025/1/10
D835V2	Head	2.49	1.62	9.96	6.48	9.6	6.16	3.75%	5.19%	22.5	2025/1/12
D1750V2	Head	9.16	4.93	36.64	19.72	36.3	19.3	0.94%	2.18%	22.3	2025/1/13
D1950V3	Head	9.79	5.13	39.16	20.52	40.4	20.8	-3.07%	-1.35%	22.3	2025/1/15
D2450V2	Head	12.70	6.03	50.80	24.12	52.7	24.6	-3.61% -1.95%		22.5	2025/1/17
D2600V2	Head	13.50	6.15	54.00	24.60	57.3	25.4	-5.76%	-3.15%	22.4	2025/1/19
D2600V2	Head	13.80	6.23	55.20	24.92	57.3	25.4	-3.66%	-1.89%	22.4	2025/1/21
Valid	dation Kit	Measured SAR 100mW	SAR SAR (normalized (normalized to 1W) to 1W) (Within				Liquid Temp. (°C)	Test Date			
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D3500V2	Head(3.5GHz)	6.73	2.59	67.30	25.90	65.9	24.7	2.12%	4.86%	22.3	2025/1/23
D3700V2	Head(3.7GHz)	6.81	2.49	68.10	24.90	67.6	24.4	0.74%	2.05%	22.3	2025/1/24
	Head(5.25GHz)	8.01	2.31	80.10	23.10	77.2	21.9	3.76%	5.48%	22.2	2025/1/25
D5GHzV2	Head(5.6GHz)	8.01	2.33	80.10	23.30	81.1	22.8	-1.23%	2.19%	22.2	2025/1/26
	Head(5.75GHz)	7.55	2.21	75.50	22.10	77.8	21.7	<b>-</b> 2.96%	1.84%	22.2	2025/1/27

Table 4: SAR System Check Result.

### 6.2.3 Detailed System Check Results

Please see the Appendix A

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SUCR250100002701 Report No.:

Rev.: 01

39 of 153 Page:

## 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 ≤ ¼ 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 12 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 12 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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Report No.: SUCR250100002701

Rev.: 01

40 of 153 Page:

### 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 body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

#### 4) . HSDPA / HSUPA / 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 ≤ ¼ 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 ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

#### **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(βc,  $\beta$ d), and HS-DPCCH power offset parameters ( $\Delta$ ACK,  $\Delta$ NACK,  $\Delta$ 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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Report No.: SUCR250100002701

Rev.: 01

Page: 41 of 153

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 =  $\beta$ hs/ $\beta$ c=30/15  $\beta$ hs=30/15\* $\beta$ c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and ΔNACK= 8 (Ahs=30/15) with βhs=30/15\*βc,and △CQI=

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

Note3: CM=1 forβc/βd =12/15, βhs/βc=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

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

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SUCR250100002701 Report No.:

Rev.: 01

Page: 42 of 153

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 6: **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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Report No.: SUCR250100002701

Rev.: 01

Page: 43 of 153

Sub -test₽	βe€	βd€	β <sub>d</sub> (SF )	β₀∕β₄₽	β <sub>hs</sub> (1	βec⁴	β <sub>ed</sub> ₊∍	β₀ o↓ (SF )↓	βed↔ (code )↔	CM( 2)+ (dB )+2	MP R↓ (dB)↓	AG(4 )+/ Inde x+/	E- TFC I&
1₽	11/15(3)+2	15/15(3)	64₽	11/15(3)+2	22/15₽	209/22 5₊³	1039/225₽	<b>4</b> 0	1₽	1.0∉	0.0	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	10	3.0₽	2.0₽	12 <sub>0</sub>	67₽
3₽	15/15₽	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β <sub>ed1</sub> :47/1 5 <sub>4</sub> β <sub>ed2:47/1</sub> 5 <sub>4</sub>	4₽	2₽	2.0∉	1.0₽	154	92₽
4₽	2/15₽	15/15₽	64₽	2/15₄	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)47	15/15(4)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4+	1₽	1.0₽	0.0₽	21	81₽

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

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  $\beta_c/\beta_d$  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.

Note 4: For subtest 5 the  $\beta_c/\beta_d$  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  $\beta_d = 15/15$ .

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.

Table 7: Subtests for UMTS Release 6 HSUPA

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		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 8: HSUPA UE category

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Report No.: SUCR250100002701

Rev.: 01

Page: 44 of 153

#### 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 9: 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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SUCR250100002701 Report No.:

Rev.: 01

45 of 153 Page:

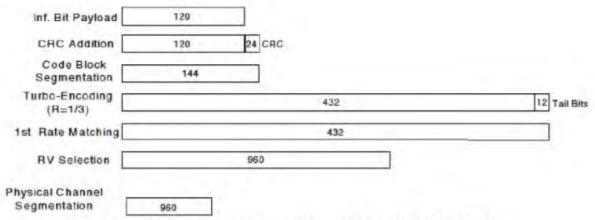


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 <sub>c</sub> ₽	β <sub>d</sub> ₽	β <sub>d</sub> ·(SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	β <sub>hs</sub> .(1)₽	CM(dB)(2)	MPR ·(dB)₽
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	043
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	043
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₽

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

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  $\beta_c/\beta_d$  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  $_{\rm P}$ 

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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Report No.: SUCR250100002701

Rev.: 01

Page: 46 of 153

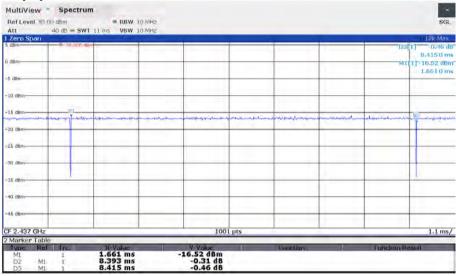
### 7.2.3 WiFi Test Configuration

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.

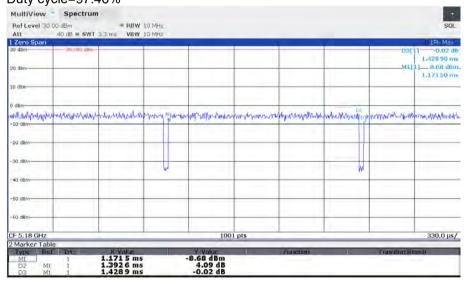
### 7.2.4 Duty cycle

Wi-Fi 2.4GHz 802.11b:

Duty cycle= 99.74%



# Wi-Fi 5GHz 802.11a: Duty cycle=97.46%



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Report No.: SUCR250100002701

Rev.: 01

Page: 47 of 153

#### 7.2.4.1 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-q 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.

### 7.2.4.2 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.

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SUCR250100002701 Report No.:

Rev.: 01

Page: 48 of 153

### 7.2.4.3 Subsequent Test Configuration Procedures

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

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 49 of 153

#### 7.2.4.4 2.4 GHz WiFi SAR Procedures

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

#### • 802.11b DSSS SAR Test Requirements

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

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

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

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

#### SAR Test Requirements for OFDM configurations

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

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SUCR250100002701 Report No.:

Rev.: 01

Page: 50 of 153

### 7.2.5 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.

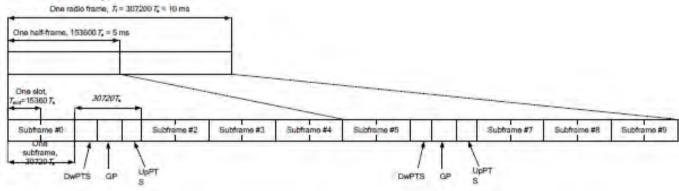
#### **TDD LTE test consideration**

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 uplinkdownlink configurations and Table 4.2-1 for Special subframe configurations.

#### Frame structure type 2:



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Report No.: SUCR250100002701

Rev.: 01

Page: 51 of 153

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

Special subframe	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
	DwPTS	Up	PTS	DwPTS	UpPTS			
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	2500.15		
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4204 Ta	5400 To		
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

#### Uplink-downlink configurations.

Uplink-downlink	Downlink-to-		Subframe number										
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9		
0	5 ms	D	S	U	U	U	D	S	U	U	U		
1	5 ms	D	S	U	U	D	D	S	U	U	D		
2	5 ms	D	S	U	D	D	D	S	U	D	D		
3	10 ms	D	S	U	U	U	D	D	D	D	D		
4	10 ms	D	S	U	U	D	D	D	D	D	D		
5	10 ms	D	S	J	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-to-				Subf	rame N	lumber	-				Calculated
Downlink Configuration	Uplink Switch- point Periodicity	0	1	2	3	4	5	6	7	8	9	Duty Cycle (%)
0	5 ms	D	S	J	U	U	D	S	J	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	J	U	D	53.33

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Report No.: SUCR250100002701

Rev.: 01

Page: 52 of 153

#### 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.

2.0 diladi 14510 0.2.0 1.												
	Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth (	N <sub>RB</sub> )	MPR (dB)				
		1.4	3.0	5	10	15	20					
		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  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

#### E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ 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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Report No.: SUCR250100002701

Rev.: 01

Page: 53 of 153

#### F) LTE CA additional specification

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

- 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 Appendix E (Conducted RF Output Power). The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

2CC Downlink Carrier Aggregation	2CC Downlink Carrier Aggregation	2CC Downlink Carrier Aggregation	3CC Downlink Carrier Aggregation
CA_2B	CA_2A-12A	CA_5A-66A	-
CA_2C	CA_2A-14A	CA_7A-7A	-
CA_7B	CA_2A-17A	CA_12A-48A	-
CA_7C	CA_2A-26A	CA_12A_66A	-
CA_42B	CA_2A-66A	CA_14A-66A	-
CA_42C	CA_4A-5A	CA_41A-41A	-
CA_48B	CA_4A-7A	CA_41A-48A	-
CA_48C	CA_4A-12A	CA_48A-48A	-
CA_2A-2A	CA_4A-17A	CA_48A-66A	-
CA_2A-4A	CA_5A-7A	CA_66A-66A	-
CA_2A-5A	CA_5A-41A	CA_7A-66A	-
CA_2A-7A	CA_5A-48A	-	-

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 54 of 153

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.

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Report No.: SUCR250100002701

Rev.: 01

Page: 55 of 153

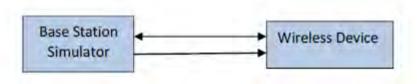
Intra-band contiguous CA operating bands:

		Uplink	(UL) operati	ng band	Downlink (DL	) operating	band	Duplex		
E-UTRA CA Band	E-UTRA Band	BS re	ceive / UE tra	ansmit	BS transm	BS transmit / UE receive				
	1	F	UL_low - FUL_hi	igh	F <sub>DL_lov</sub>	Mode				
CA_7C	7	2502.5 MHz	-	2567.5 MHz	2622.5 MHz	_	2687.5 MHz	FDD		
CA_7B	7	2502.5 MHz	-	2567.5 MHz	2622.5 MHz	_	2687.5 MHz	FDD		
CA_42C	42	3457.5 MHz	-	3592.5 MHz	3457.5 MHz	_	3592.5 MHz	TDD		
CA_42B	42	3457.5 MHz	-	3592.5 MHz	3457.5 MHz	-	3592.5 MHz	TDD		
CA_48C	48	3557.5 MHz	-	3692.5 MHz	3557.5 MHz	-	3692.5 MHz	TDD		
CA_48B	48	3557.5 MHz	_	3692.5 MHz	3557.5 MHz	_	3692.5 MHz	TDD		

#### 6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

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



DL CA Power Measurement Setup

- c) Inter-band carrier aggregation requirements for uplink.
- 1. For Inter-band uplink CA mode, Qualcomm TA SAR in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from another 4G(LTE). TA-SAR algorithm controls the total RF exposure of Inter-band uplink CA to not exceed FCC limit.

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Report No.: SUCR250100002701

Rev.: 01

Page: 56 of 153

#### The Inter band Uplink CA as below table:

Band/An	tonno	LTE Band 4	LTE Band 4 LTE Band 5 LTE Band 7 LTE Ban		LTE Band 48	LTE B	and 66
Danu/An	terma	Ant1	Ant0	Ant4	Ant2	Ant1	Ant2
LTE Band 2	Ant2	√	√	√			
LTE Band 4	Ant2		√	√			
LTE Band 5	Ant0			√	√		√
LTE Band 12	Ant0						√
LTE Band 48	Ant2					√	

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Report No.: SUCR250100002701

Rev.: 01

Page: 57 of 153

### 7.2.6 NR Band Test Configuration

2. NR Band n2/5/7/66/71/78 support SA mode and NR Band n2/5/7/41/48/66/71/78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Dana	perations	are possible of	Jilly With		LIVE	mode an		rations ar	c possible	as ionov	ring table.
Band	d/Antenna	LTE Band 2	LTE Band 4		LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 14	LTE Band 66		LTE Band 48
		Ant2	Ant1	Ant1 Ant2		Ant1	Ant0	Ant0	Ant1	Ant2	Ant2
n2	Ant2		√		√		√	√	<b>√</b>		
n5	Ant0	√		√						√	
n7	Ant4				√				√		
n38	Ant										
n11	Ant1						√				
n41	Ant4	√							√		
n48	Ant2	√									
266	Ant1	√					√	√			√
n66	Ant2				√				<b>√</b>		
n71	Ant0	√								√	
n78	Ant2	√	√		√	√	√		√		

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Report No.: SUCR250100002701

Rev.: 01

Page: 58 of 153

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

9.1	Band	·	N2	N5	N7	N41	N48	N66	N71	n78
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	DFT-s-	16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	OFDM	64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modulation	- 4 4	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modulation		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CF-OFDIVI	64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Duty Cycle			100%	100%	100%	100%	100%	100%	100%

Ban			Bandwidth													
d	SCS	5Mh z	10Mh z	15Mh z	20Mh z	25Mh z	30Mh z	35Mh z	40Mh z	45Mh z	50Mh z	60Mh z	70Mh z	80Mh z	90Mh z	100Mh z
N2	15KH Z	Yes	Yes	Yes	Yes	N/A										
N5	15KH Z	Yes	Yes	Yes	Yes	N/A										
N7	15KH Z	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A
N41	30KH Z	N/A	Yes													
N48	30KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	Yes	N/A	Yes	Yes	N/A	Yes	Yes	Yes
N66	15KH Z	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A						
N71	15KH Z	Yes	Yes	Yes	Yes	N/A										
N78	30KH Z	N/A	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes

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SUCR250100002701 Report No.:

Rev.: 01

Page: 59 of 153

- 4. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
  - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
  - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
  - c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
  - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
  - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
  - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device

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Report No.: SUCR250100002701

Rev.: 01

Page: 60 of 153

#### 5. 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	lation		MPR (dB)			
Modul	alion	Edge RB allocations	Outer RB allocations	Inner RB allocations		
	PI/2 BPSK	≤ 3.5 <sup>1</sup>	≤ 1.2 <sup>1</sup>	≤ 0.2 <sup>1</sup>		
	FI/Z DF3K	≤ 0.5 <sup>2</sup>	≤ 0.5 <sup>2</sup>	0 <sup>2</sup>		
DFT-s-OFDM	QPSK	≤	1	0		
	16 QAM	≤	2	≤ 1		
	64 QAM					
	256 QAM		≤ 4.5			
	QPSK	≤	3	≤ 1.5		
CP-OFDM	16 QAM	≤	3	≤ 2		
CF-OFDIVI	64 QAM		≤ 3.5			
	256 QAM	≤ 6.5				

- NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n41,n78. 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 n41,n78 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 n41,n78.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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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Report No.: SUCR250100002701

Rev.: 01

Page: 61 of 153

### 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 ¼ 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.

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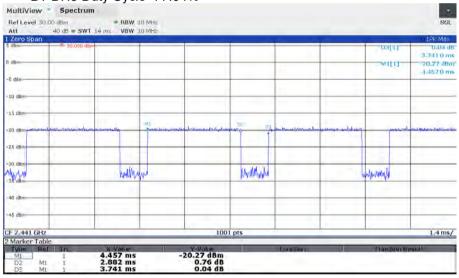


SUCR250100002701 Report No.:

Rev.: 01

Page: 62 of 153

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
  - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured. 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- 9) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=77.04%



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SUCR250100002701 Report No.:

Rev.: 01

Page: 63 of 153

### 8.2 Measurement of SAR Data

#### Note:

- The maximum reported SAR value is marked in **bold**. Graph results refer to Appendix B 1)
- 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.
  - ≤ 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
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
- 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  $\leq 1.2$ W/kg, SAR test for the other 802.11 modes are not required.

#### WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 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.
- When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$ W/kg, SAR test for the other 802.11 modes are not required.

#### NFC:

- 1) NFC SAR is measured for all edges and surfaces of the device.
- 2) NFC 13.56MHz antenna por is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
- 3) NFC SAR test tissue-simulating liquid parameter refer to IEC/IEEE 62209-1528 2020.

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Report No.: SUCR250100002701

Rev.: 01

Page: 64 of 153

#### 8.2.1 SAR Result of GSM850

	GSM850 SAR Test Record											
					Ant 0 Te	st Recor	d					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Head T	est Data						
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.887	0.496	-0.06	29.48	30.50	1.265	1.122	0.627	22.5
Left cheek	GPRS 3TS	128/824.2	1:2.77	0.771	0.431	-0.18	29.46	30.50	1.271	0.979	0.548	22.5
Left cheek	GPRS 3TS	251/848.8	1:2.77	0.851	0.476	-0.12	29.44	30.50	1.276	1.086	0.607	22.5
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.841	0.470	0.04	29.48	30.50	1.265	1.064	0.594	22.5
Left tilted	GPRS 3TS	128/824.2	1:2.77	0.731	0.408	-0.09	29.46	30.50	1.271	0.929	0.519	22.5
Left tilted	GPRS 3TS	251/848.8	1:2.77	0.807	0.451	-0.11	29.44	30.50	1.276	1.030	0.576	22.5
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.934	0.522	-0.05	29.48	30.50	1.265	1.181	0.660	22.5
Right cheek-repeated	GPRS 3TS	190/836.6	1:2.77	0.928	0.517	0.13	29.48	30.50	1.265	1.174	0.654	22.5
Right cheek	GPRS 3TS	128/824.2	1:2.77	0.812	0.454	0.01	29.46	30.50	1.271	1.031	0.576	22.5
Right cheek	GPRS 3TS	251/848.8	1:2.77	0.896	0.501	-0.10	29.44	30.50	1.276	1.144	0.639	22.5
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.855	0.478	0.04	29.48	30.50	1.265	1.081	0.605	22.5
Right tilted	GPRS 3TS	128/824.2	1:2.77	0.743	0.415	-0.16	29.46	30.50	1.271	0.944	0.528	22.5
Right tilted	GPRS 3TS	251/848.8	1:2.77	0.820	0.459	0.09	29.44	30.50	1.276	1.047	0.585	22.5
			Е	Body wor	n Test da	ta(Separ	ate 15mm)					
Front side	GPRS 3TS	190/836.6	1:2.77	0.246	0.144	0.07	29.48	30.50	1.265	0.311	0.182	22.5
Back side	GPRS 3TS	190/836.6	1:2.77	0.320	0.187	-0.04	29.48	30.50	1.265	0.405	0.237	22.5
				Hotspot	Test data	a(Separat	e 10mm)					
Front side	GPRS 3TS	190/836.6	1:2.77	0.317	0.177	-0.11	29.48	30.50	1.265	0.401	0.224	22.5
Back side	GPRS 3TS	190/836.6	1:2.77	0.580	0.324	-0.03	29.48	30.50	1.265	0.734	0.410	22.5
Left side	GPRS 3TS	190/836.6	1:2.77	0.143	0.080	0.04	29.48	30.50	1.265	0.181	0.101	22.5
Right side	GPRS 3TS	190/836.6	1:2.77	0.049	0.028	0.11	29.48	30.50	1.265	0.062	0.035	22.5
Top side	GPRS 3TS	190/836.6	1:2.77	0.401	0.224	-0.12	29.48	30.50	1.265	0.507	0.283	22.5

Table 10: SAR of GSM850 for Head, Body and Hotspot.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	190/836.6	0.934	0.928	1.006465517	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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<sup>2)</sup> 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).

<sup>3)</sup> 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.

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



Report No.: SUCR250100002701

Rev.: 01

Page: 65 of 153

#### 8.2.2 SAR Result of GSM1900

				GSM1	900 SAR	Test R	ecord					
				Α	nt 2 Tes	t Recor	d					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Head Te	st Data						
Left cheek         GPRS 2TS         661/1880         1:4.15         0.931         0.492         -0.11         26.49         27.80         1.352         1.259         0.665         22.3												
Left cheek-repeated	GPRS 2TS	661/1880	1:4.15	0.921	0.490	0.11	26.49	27.80	1.352	1.245	0.663	22.3
Left cheek	GPRS 2TS	512/1850.2	1:4.15	0.814	0.475	-0.09	26.37	27.80	1.390	1.131	0.660	22.3
Left cheek	GPRS 2TS	810/1909.8	1:4.15	0.849	0.482	-0.14	26.41	27.80	1.377	1.169	0.664	22.3
Left tilted	GPRS 2TS	661/1880	1:4.15	0.555	0.292	0.03	26.49	27.80	1.352	0.750	0.395	22.3
Right cheek	GPRS 2TS	661/1880	1:4.15	0.470	0.247	0.03	26.49	27.80	1.352	0.635	0.334	22.3
Right tilted	GPRS 2TS	661/1880	1:4.15	0.435	0.229	-0.11	26.49	27.80	1.352	0.588	0.310	22.3
			В	ody worn	Test data	a(Separ	ate 15mm)					
Front side	GPRS 4TS	661/1880	1:2.075	0.176	0.101	0.05	25.27	26.50	1.327	0.234	0.134	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.296	0.170	-0.03	25.27	26.50	1.327	0.393	0.226	22.3
			İ	Hotspot T	est data(	Separa	te 10mm)					
Front side	GPRS 4TS	661/1880	1:2.075	0.331	0.178	0.06	25.27	26.50	1.327	0.439	0.236	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.648	0.349	-0.09	25.27	26.50	1.327	0.860	0.463	22.3
Back side	GPRS 4TS	512/1850.2	1:2.075	0.639	0.343	0.12	25.13	26.50	1.371	0.876	0.470	22.3
Back side	GPRS 4TS	810/1909.8	1:2.075	0.621	0.331	-0.05	25.13	26.50	1.371	0.851	0.454	22.3
Right side	GPRS 4TS	661/1880	1:2.075	0.506	0.273	0.10	25.27	26.50	1.327	0.672	0.362	22.3
Top side	GPRS 4TS	661/1880	1:2.075	0.264	0.142	-0.01	25.27	26.50	1.327	0.350	0.188	22.3

Table 11: SAR of GSM1900 for Head, Body and Hotspot.

Test Position	Channel/ Frequency	Measured	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated	
	(MHz)	SAR (1g)	SAR (1g)		SAR (1g)	SAR (1g)	
Left cheek	661/1880	0.933	0.921	1.013029316	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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<sup>2)</sup> 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).

<sup>3)</sup> 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.

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



Report No.: SUCR250100002701

Rev.: 01

Page: 66 of 153

#### 8.2.3 SAR Result of WCDMA Band 2

				wc	DMA Ban	d 2 SAR Te	est Record								
	Ant 2 Test Record														
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)			
					Hea	ad Test Data	a								
Left cheek RMC 9400/1880 1:1 0.569 0.301 0.04 19.22 20.00 1.197 <b>0.681</b> 0.360 22.3															
Left tilted	RMC	9400/1880	1:1	0.268	0.142	0.07	19.22	20.00	1.197	0.321	0.170	22.3			
Right cheek	RMC	9400/1880	1:1	0.251	0.133	0.18	19.22	20.00	1.197	0.300	0.159	22.3			
Right tilted	RMC	9400/1880	1:1	0.244	0.129	0.00	19.22	20.00	1.197	0.292	0.154	22.3			
				Body	worn Tes	t data(Sepa	rate 15mm)								
Front side	RMC	9400/1880	1:1	0.184	0.105	-0.02	22.39	23.00	1.151	0.212	0.121	22.3			
Back side	RMC	9400/1880	1:1	0.293	0.167	-0.01	22.39	23.00	1.151	0.337	0.192	22.3			
				Ho	tspot Test	data(Separa	ate 10mm)		•						
Front side	RMC	9400/1880	1:1	0.303	0.160	-0.08	22.39	23.00	1.151	0.349	0.184	22.3			
Back side	RMC	9400/1880	1:1	0.572	0.302	-0.05	22.39	23.00	1.151	0.658	0.348	22.3			
Right side	RMC	9400/1880	1:1	0.441	0.233	0.13	22.39	23.00	1.151	0.508	0.268	22.3			
Top side	RMC	9400/1880	1:1	0.274	0.145	0.11	22.39	23.00	1.151	0.315	0.167	22.3			

Table 12: SAR of WCDMA Band II for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 67 of 153

#### 8.2.4 SAR Result of WCDMA Band 4

				W	CDMA Band	d 4 SAR Tes	st Record					
					Ant 2	Test Recor	d					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	d Test Data						
Left cheek	RMC	1412/1732.4	1:1	0.724	0.386	-0.03	20.37	21.50	1.297	0.939	0.501	22.3
Left cheek	RMC	1312/1712.4	1:1	0.681	0.357	0.06	20.33	21.50	1.309	0.892	0.467	22.3
Left cheek	RMC	1513/1752.6	1:1	0.695	0.373	0.07	20.35	21.50	1.303	0.906	0.486	22.3
Left tilted	RMC	1412/1732.4	1:1	0.327	0.173	0.11	20.37	21.50	1.297	0.424	0.224	22.3
Right cheek	RMC	1412/1732.4	1:1	0.342	0.181	-0.02	20.37	21.50	1.297	0.444	0.235	22.3
Right tilted	RMC	1412/1732.4	1:1	0.260	0.138	-0.02	20.37	21.50	1.297	0.337	0.179	22.3
				Boo	ly worn Test	data(Separ	ate 15mm)					
Front side	RMC	1412/1732.4	1:1	0.160	0.097	0.19	22.35	23.50	1.303	0.209	0.126	22.3
Back side	RMC	1412/1732.4	1:1	0.243	0.149	-0.01	22.35	23.50	1.303	0.317	0.194	22.3
				Н	otspot Test o	lata(Separa	te 10mm)					
Front side	RMC	1412/1732.4	1:1	0.304	0.172	-0.18	22.35	23.50	1.303	0.396	0.224	22.3
Back side	RMC	1412/1732.4	1:1	0.494	0.280	-0.01	22.35	23.50	1.303	0.644	0.365	22.3
Right side	RMC	1412/1732.4	1:1	0.374	0.212	-0.11	22.35	23.50	1.303	0.487	0.276	22.3
Top side	RMC	1412/1732.4	1:1	0.351	0.199	0.06	22.35	23.50	1.303	0.457	0.259	22.3

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 68 of 153

#### 8.2.5 SAR Result of WCDMA Band 5

				W	CDMA Bar	nd 5 SAR	Test Record					
					Ant	0 Test Re	ecord					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					He	ad Test D	Data					
Left cheek RMC 4182/836.4 1:1 0.515 0.295 0.02 23.26 24.50 1.330 0.685 0.392 22.5												
Left tilted	RMC	4182/836.4	1:1	0.491	0.281	-0.07	23.26	24.50	1.330	0.653	0.374	22.5
Right cheek	RMC	4182/836.4	1:1	0.608	0.348	-0.04	23.26	24.50	1.330	0.809	0.463	22.5
Right cheek	RMC	4132/826.4	1:1	0.589	0.341	-0.16	23.21	24.50	1.346	0.793	0.459	22.5
Right cheek	RMC	4233/846.6	1:1	0.595	0.343	-0.13	23.25	24.50	1.334	0.793	0.457	22.5
Right tilted	RMC	4182/836.4	1:1	0.568	0.325	-0.11	23.26	24.50	1.330	0.756	0.432	22.5
				Bod	ly worn Te	st data(S	eparate 15mm)					
Front side	RMC	4182/836.4	1:1	0.221	0.130	-0.16	23.26	24.50	1.330	0.294	0.173	22.5
Back side	RMC	4182/836.4	1:1	0.270	0.158	-0.01	23.26	24.50	1.330	0.359	0.210	22.5
				Но	tspot Test	data(Se <sub>l</sub>	parate 10mm)					
Front side	RMC	4182/836.4	1:1	0.325	0.181	0.04	23.26	24.50	1.330	0.432	0.241	22.5
Back side	RMC	4182/836.4	1:1	0.548	0.305	0.01	23.26	24.50	1.330	0.729	0.406	22.5
Left side	RMC	4182/836.4	1:1	0.155	0.086	0.16	23.26	24.50	1.330	0.206	0.114	22.5
Right side	RMC	4182/836.4	1:1	0.034	0.019	0.01	23.26	24.50	1.330	0.045	0.025	22.5
Top side	RMC	4182/836.4	1:1	0.438	0.244	-0.10	23.26	24.50	1.330	0.583	0.325	22.5

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 69 of 153

#### 8.2.6 SAR Result of LTE Band 7

			17	ΓF Ban	d 7 SAI	R Test F	Record						
						Record							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR	SAR (W/kg) 10-g	Power	Conducted Power(dBm)		Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test [	Data(1R	3)					, <b>U</b> ,	
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.129	0.056	0.15	16.24	17.50	1.337	0.172	0.075	22.4
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.071	0.032	-0.11	16.24	17.50	1.337	0.095	0.043	22.4
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.309	0.139	-0.05	16.24	17.50	1.337	0.413	0.186	22.4
Right cheek-UL_CA	20	QPSK 1_0	21100+21298/2535+2554	1:1	0.305	0.137	0.06	16.22	17.50	1.343	0.410	0.184	22.4
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.118	0.053	0.13	16.24	17.50	1.337	0.158	0.071	22.4
				Head	Test Da	ata(50%	RB)						
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.117	0.053	0.09	16.20	17.50	1.349	0.158	0.071	22.4
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.057	0.026	-0.01	16.20	17.50	1.349	0.077	0.035	22.4
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.270	0.122	-0.06	16.20	17.50	1.349	0.364	0.165	22.4
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.089	0.040	-0.15	16.20	17.50	1.349	0.120	0.054	22.4
			He	ad Tes	t Data(	IRB) Fo	r ULCA						
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.129	0.056	-0.03	16.24	15.50	0.843	0.109	0.047	22.4
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.071	0.032	-0.17	16.24	15.50	0.843	0.060	0.027	22.4
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.309	0.139	-0.05	16.24	15.50	0.843	0.261	0.117	22.4
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.118	0.053	-0.15	16.24	15.50	0.843	0.100	0.045	22.4
				Head	Test Da	ata(50%	RB)			•	•		
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.117	0.053	0.11	16.20	15.50	0.851	0.100	0.045	22.4
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.057	0.026	0.00	16.20	15.50	0.851	0.049	0.022	22.4
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.270	0.122	0.13	16.20	15.50	0.851	0.230	0.104	22.4
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.089	0.040	-0.09	16.20	15.50	0.851	0.076	0.034	22.4
			Body we	orn Tes	st data(S	Separate	15mm	1RB)					
Front side	20	QPSK 1_0	21100/2535	1:1	0.174	0.086	0.12	18.99	19.50	1.125	0.196	0.097	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.269	0.133	-0.09	18.99	19.50	1.125	0.303	0.150	22.4
Back side-UL_CA	20	QPSK 1_0	21100+21298/2535+2554	1:1	0.256	0.124	-0.10	18.92	19.50	1.143	0.293	0.142	22.4
			Body wor	n Test	data(Se	parate 1	15mm 5	0%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.160	0.079	-0.15	18.95	19.50	1.135	0.182	0.090	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.240	0.119	-0.18	18.95	19.50	1.135	0.272	0.135	22.4
			Body worn Te	est data	a(Separ	ate 15m	m 1RB)	For ULCA					
Front side	20	QPSK 1_0	21100/2535	1:1	0.174	0.086	0.18	18.99	18.50	0.893	0.155	0.077	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.269	0.133	-0.09	18.99	18.50	0.893	0.240	0.119	22.4
			Body wor	n Test	data(Se	parate	15mm 5	0%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.160	0.079	-0.19	18.95	18.50	0.902	0.144	0.071	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.240	0.119	0.09	18.95	18.50	0.902	0.216	0.107	22.4
			Hotspo	ot Test	data(Se	parate 1	0mm 1	RB)					
Front side	20	QPSK 1_0	21100/2535	1:1	0.185	0.085	0.16	17.95	18.50	1.135	0.210	0.096	22.4

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SUCR250100002701 Report No.:

Rev.: 01

Page: 70 of 153

Back side	20	QPSK 1_0	21100/2535	1:1	0.429	0.198	-0.07	17.95	18.50	1.135	0.487	0.225	22.4
Back side-UL_CA	20	QPSK 1_0	21100+21298/2535+2554	1:1	0.425	0.196	-0.18	17.93	18.50	1.140	0.485	0.223	22.4
Left side	20	QPSK 1_0	21100/2535	1:1	0.242	0.112	0.01	17.95	18.50	1.135	0.275	0.127	22.4
Top side	20	QPSK 1_0	21100/2535	1:1	0.101	0.046	-0.03	17.95	18.50	1.135	0.115	0.052	22.4
			Hotspot	Test d	ata(Sep	arate 10	)mm 50	%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.147	0.068	0.12	17.88	18.50	1.153	0.170	0.078	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.388	0.179	-0.09	17.88	18.50	1.153	0.448	0.206	22.4
Left side	20	QPSK 50_0	21100/2535	1:1	0.203	0.094	0.04	17.88	18.50	1.153	0.234	0.108	22.4
Top side	20	QPSK 50_0	21100/2535	1:1	0.057	0.027	-0.04	17.88	18.50	1.153	0.066	0.031	22.4
			Hotspot Tes	t data(	Separat	e 10mm	1RB) I	or ULCA					
Front side	20	QPSK 1_0	21100/2535	1:1	0.185	0.085	0.13	17.95	16.50	0.716	0.132	0.061	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.429	0.198	-0.07	17.95	16.50	0.716	0.307	0.142	22.4
Left side	20	QPSK 1_0	21100/2535	1:1	0.242	0.112	-0.18	17.95	16.50	0.716	0.173	0.080	22.4
Top side	20	QPSK 1_0	21100/2535	1:1	0.101	0.046	0.16	17.95	16.50	0.716	0.072	0.033	22.4
			Hotspot	Test d	ata(Sep	arate 10	)mm 50	%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.147	0.068	0.02	17.88	16.50	0.728	0.107	0.049	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.388	0.179	0.15	17.88	16.50	0.728	0.282	0.130	22.4
Left side	20	QPSK 50_0	21100/2535	1:1	0.203	0.094	-0.02	17.88	16.50	0.728	0.148	0.068	22.4
Top side	20	QPSK 50_0	21100/2535	1:1	0.057	0.027	-0.06	17.88	16.50	0.728	0.041	0.020	22.4
			A	nt 1 Te	est Rec	ord For	ENDC						
				_	SAR	SAR	Power				Scaled		
Test position	BW.	Test mode	Test ch./Freq.	Duty Cvcle	(W/kg)	(W/kg)	drift	Conducted Power(dBm)	•	Scaled factor		SAR 10-a	Liquid Temp.(℃)
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	/\A//ka\			Conducted Power(dBm)	•		SAR 1-g (W/kg)	10-g	Liquid Temp.(℃)
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	(W/kg) 10-g	drift (dB)		•		1-g	10-g	-
Test position  Left cheek	<b>BW</b> .	Test mode  QPSK 1_0	Test ch./Freq. 21100/2535	Cycle	(W/kg) 1-g	(W/kg) 10-g	drift (dB)		•		1-g	10-g	-
·			·	Cycle Hea	(W/kg) 1-g d Test [	(W/kg) 10-g Data(1R	drift (dB)	Power(dBm)	Limit(dBm)	factor	1-g (W/kg)	10-g (W/kg)	Temp.(℃)
Left cheek	20	QPSK 1_0	21100/2535	Hea	(W/kg) 1-g d Test [ 0.165	(W/kg) 10-g Data(1R 0.081	drift (dB) B) 0.01	Power(dBm)	Limit(dBm)	<b>factor</b> 1.035	1-g (W/kg)	10-g (W/kg)	<b>Temp.(℃)</b> 22.4
Left cheek Left tilted	20 20	QPSK 1_0 QPSK 1_0	21100/2535 21100/2535	Hea 1:1	(W/kg) 1-g d Test [ 0.165 0.131	(W/kg) 10-g Data(1R 0.081 0.064	drift (dB)  B)  0.01  0.07	23.85 23.85	24.00 24.00	1.035 1.035	1-g (W/kg) 0.171 0.136	10-g (W/kg) 0.084 0.066	<b>Temp.(℃)</b> 22.4 22.4
Left cheek Left tilted Right cheek	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	21100/2535 21100/2535 21100/2535	Hea 1:1 1:1 1:1	(W/kg) 1-g d Test [ 0.165 0.131 0.211	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094	drift (dB) B) 0.01 0.07 0.05 -0.13	23.85 23.85 23.85	24.00 24.00 24.00	1.035 1.035 1.035	1-g (W/kg) 0.171 0.136 0.218	10-g (W/kg) 0.084 0.066 0.107	22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	21100/2535 21100/2535 21100/2535 21100/2535	Hea 1:1 1:1 1:1	(W/kg) 1-g d Test [ 0.165 0.131 0.211 0.194	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094	drift (dB) B) 0.01 0.07 0.05 -0.13	23.85 23.85 23.85	24.00 24.00 24.00	1.035 1.035 1.035	1-g (W/kg) 0.171 0.136 0.218	10-g (W/kg) 0.084 0.066 0.107	22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Head 1:1 1:1 1:1 1:1 Head	(W/kg) 1-g d Test I 0.165 0.131 0.211 0.194 Test Da	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094 ata(50%	drift (dB)  B)  0.01  0.07  0.05  -0.13  RB)	23.85 23.85 23.85 23.85 23.85	24.00 24.00 24.00 24.00 24.00	1.035 1.035 1.035 1.035	1-g (W/kg) 0.171 0.136 0.218 0.201	0.084 0.066 0.107 0.097	22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted Left cheek	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Head 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g d Test [ 0.165 0.131 0.211 0.194 Test Da 0.148	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094 ata(50% 0.072	drift (dB)  B)  0.01  0.07  0.05  -0.13  RB)  0.08	23.85 23.85 23.85 23.85 23.85 22.76	24.00 24.00 24.00 24.00 24.00	1.035 1.035 1.035 1.035 1.035	0.171 0.136 0.218 0.201	10-g (W/kg) 0.084 0.066 0.107 0.097	22.4 22.4 22.4 22.4 22.4 22.4
Left cheek 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 QPSK 50_0	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Head 1:1 Head 1:1 1:1	(W/kg) 1-g d Test [ 0.165 0.131 0.211 0.194 Test Da 0.148 0.115	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12	23.85 23.85 23.85 23.85 23.85 22.76	24.00 24.00 24.00 24.00 24.00 23.00	1.035 1.035 1.035 1.035 1.035 1.057	0.171 0.136 0.218 0.201 0.156 0.122	10-g (W/kg) 0.084 0.066 0.107 0.097 0.076 0.059	22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek	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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Head 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g d Test I 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04	23.85 23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76	24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00	1.035 1.035 1.035 1.035 1.057 1.057	1-g (W/kg) 0.171 0.136 0.218 0.201 0.156 0.122 0.212	0.084 0.066 0.107 0.097 0.076 0.059 0.104	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek	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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body we	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 I 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm	23.85 23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76	24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00	1.035 1.035 1.035 1.035 1.057 1.057	1-g (W/kg) 0.171 0.136 0.218 0.201 0.156 0.122 0.212	0.084 0.066 0.107 0.097 0.076 0.059 0.104	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted	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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body we	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 [ 0.165 0.131 0.211 0.194 Test Da 0.115 0.201 0.172 st data(\$ 0.136	(W/kg) 10-g Data(1R 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04	23.85 23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 1RB)	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00	1.035 1.035 1.035 1.035 1.035 1.057 1.057 1.057	0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182	10-g (W/kg) 0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted  Front 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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body wo	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 [ 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172 st data(\$ 0.136 0.212	(W/kg) 10-g 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084 Separate 0.070 0.109	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm  0.12  -0.19	23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 1RB) 20.34 20.34	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00	1.035 1.035 1.035 1.035 1.057 1.057 1.057 1.057	1-g (W/kg) 0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182	0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right tilted  Front side	20 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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body words and the second seco	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 I 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172 st data(\$ 0.212 data(\$e	(W/kg) 10-g 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084 Separate 0.070 0.109	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm  0.12  -0.19	23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 1RB) 20.34 20.34	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00	1.035 1.035 1.035 1.035 1.057 1.057 1.057 1.057	1-g (W/kg) 0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182	0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side	20 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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body word 21100/2535 Body word 21100/2535	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 I 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172 st data(\$6 0.212 data(\$6	(W/kg) 10-g 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084 Geparate 0.070 0.109	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm  -0.12  -0.19	23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 1RB) 20.34 20.34 60%RB)	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 20.50	1.035 1.035 1.035 1.035 1.057 1.057 1.057 1.057 1.038	0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182 0.141 0.220	0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089 0.073	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side	20 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 1_0 QPSK 1_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body wor 21100/2535 Body wor 21100/2535 21100/2535 21100/2535 21100/2535	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 I 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172 st data(\$6 0.212 data(\$6	(W/kg) 10-g 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084 Geparate 0.070 0.109 eparate 0.062 0.0102	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm 5  -0.06  -0.11	23.85 23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 20.34 20.34 60%RB) 20.29 20.29	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 20.50 20.50	1.035 1.035 1.035 1.035 1.057 1.057 1.057 1.057 1.038 1.038	0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182 0.141 0.220	0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089 0.073 0.113	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
Left cheek Left tilted Right cheek Right tilted  Left cheek Left tilted Right cheek Right cheek Right tilted  Front side Back side	20 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 1_0 QPSK 1_0 QPSK 50_0	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body word 21100/2535 21100/2535 21100/2535 Body word 21100/2535 Body word 21100/2535 Body word 21100/2535 21100/2535	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 [ 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172 st data(\$6 0.212 data(\$6 0.121 0.198 data(\$6	(W/kg) 10-g 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084 Geparate 0.070 0.109 eparate 0.062 0.062	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm 5  -0.06  -0.11	23.85 23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 20.34 20.34 60%RB) 20.29 20.29	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 20.50 20.50	1.035 1.035 1.035 1.035 1.057 1.057 1.057 1.057 1.038 1.038	0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182 0.141 0.220	0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089 0.073 0.113	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4
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	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	21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body wor 21100/2535 Body wor 21100/2535 Body wor 21100/2535 Hotspo	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 [ 0.165 0.131 0.211 0.194 Test Da 0.148 0.115 0.201 0.172 st data(\$6 0.212 data(\$6 0.121 0.198 data(\$6	(W/kg) 10-g 0.081 0.064 0.103 0.094 ata(50% 0.072 0.056 0.098 0.084 Geparate 0.070 0.109 parate 0.062 0.102 parate	drift (dB)  0.01  0.07  0.05  -0.13  RB)  0.08  -0.12  -0.13  0.04  15mm 5  -0.06  -0.11	23.85 23.85 23.85 23.85 23.85 22.76 22.76 22.76 22.76 20.34 20.34 20.34 20.29 20.29 RB)	24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 20.50 20.50	1.035 1.035 1.035 1.035 1.057 1.057 1.057 1.057 1.057 1.038 1.038	0.171 0.136 0.218 0.201 0.156 0.122 0.212 0.182 0.141 0.220	0.084 0.066 0.107 0.097 0.076 0.059 0.104 0.089 0.073 0.113	22.4 22.4 22.4 22.4 22.4 22.4 22.4 22.4

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Report No.: SUCR250100002701

Rev.: 01

Page: 71 of 153

Right side	20	QPSK 1_0	21100/2535	1:1	0.057	0.027	-0.12	18.33	18.50	1.040	0.059	0.028	22.4
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.596	0.286	-0.03	18.33	18.50	1.040	0.620	0.297	22.4
			Hotspot	Test da	ata(Sep	arate 10	mm 50°	%RB)					
Front side	20	QPSK 50_0	21100/2535	1:1	0.151	0.073	-0.06	18.24	18.50	1.062	0.160	0.078	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.252	0.121	-0.09	18.24	18.50	1.062	0.268	0.128	22.4
Left side	20	QPSK 50_0	21100/2535	1:1	0.043	0.020	0.01	18.24	18.50	1.062	0.046	0.021	22.4
Right side	20	QPSK 50_0	21100/2535	1:1	0.048	0.023	-0.12	18.24	18.50	1.062	0.051	0.024	22.4
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.585	0.281	-0.06	18.24	18.50	1.062	0.621	0.298	22.4

Table 15: SAR of LTE Band 7 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 72 of 153

#### 8.2.7 SAR Result of LTE Band 12

				L	TE Ban	d 12 SA	R Test	Record					
					Ar	nt 0 Tes	t Recor	d					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	d Test [	Data(1R	B)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.492	0.272	0.02	23.74	24.00	1.062	0.522	0.289	22.1
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.441	0.244	0.16	23.74	24.00	1.062	0.468	0.259	22.1
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.688	0.380	0.01	23.74	24.00	1.062	0.730	0.403	22.1
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.655	0.362	0.14	23.74	24.00	1.062	0.695	0.384	22.1
					Head	Test Da	ata(50%	RB)					
Left cheek	10	QPSK 25_0		1:1	0.459	0.254	-0.06	22.64	23.00	1.086	0.499	0.276	22.1
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.413	0.228	0.10	22.64	23.00	1.086	0.449	0.248	22.1
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.670	0.370	-0.08	22.64	23.00	1.086	0.728	0.402	22.1
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.637	0.352	-0.07	22.64	23.00	1.086	0.692	0.382	22.1
				Hea	d Test D	ata(1RE	B) For U	LCA/ENDC					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.492	0.272	0.19	23.74	21.00	0.532	0.262	0.145	22.1
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.441	0.244	0.03	23.74	21.00	0.532	0.235	0.130	22.1
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.688	0.380	0.01	23.74	21.00	0.532	0.366	0.202	22.1
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.655	0.362	0.17	23.74	21.00	0.532	0.349	0.193	22.1
					Head	Test Da	ata(50%	RB)					
Left cheek	10	QPSK 25_0		1:1	0.459	0.254	-0.01	22.64	20.00	0.545	0.250	0.138	22.1
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.413	0.228	-0.16	22.64	20.00	0.545	0.225	0.124	22.1
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.670	0.370	0.01	22.64	20.00	0.545	0.365	0.201	22.1
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.637	0.352	-0.07	22.64	20.00	0.545	0.347	0.192	22.1
					worn Te	st data(S	Separate	e 15mm 1RB)		,	,	,	,
Front side	10	QPSK 1_0	23095/707.5	1:1	0.115	0.088	0.00	23.74	24.00	1.062	0.122	0.093	22.1
Back side	10	QPSK 1_0	23095/707.5	1:1	0.139	0.107	-0.01	23.74	24.00	1.062	0.148	0.114	22.1
							·	15mm 50%RB	<u> </u>	ı	ı		ı
Front side	10	QPSK 25_0		1:1	0.103	0.079	0.02	22.64	23.00	1.086	0.112	0.086	22.1
Back side	10	QPSK 25_0	23095/707.5	1:1	0.118	0.091	-0.06	22.64	23.00	1.086	0.128	0.099	22.1
							<del>'</del>	10mm 1RB)		1	1		ı
Front side	10	QPSK 1_0	23095/707.5	1:1	0.174	0.096	-0.02	23.74	24.00	1.062	0.185	0.102	22.1
Back side	10	QPSK 1_0	23095/707.5	1:1	0.319	0.177	0.02	23.74	24.00	1.062	0.339	0.188	22.1
Left side	10	QPSK 1_0	23095/707.5	1:1	0.111	0.062	-0.09	23.74	24.00	1.062	0.118	0.066	22.1
Right side	10	QPSK 1_0	23095/707.5	1:1	0.062	0.035	-0.16	23.74	24.00	1.062	0.066	0.037	22.1
Top side	10	QPSK 1_0	23095/707.5	1:1	0.248	0.138	0.11	23.74	24.00	1.062	0.263	0.147	22.1
	1							)mm 50%RB)		1	1	1	1
Front side	10	QPSK 25_0		1:1	0.158	0.087	-0.04	22.64	23.00	1.086	0.172	0.095	22.1
Back side	10	QPSK 25_0		1:1	0.286	0.159	-0.16	22.64	23.00	1.086	0.311	0.173	22.1
Left side	10	QPSK 25_0		1:1	0.090	0.050	0.07	22.64	23.00	1.086	0.098	0.054	22.1
Right side	10	QPSK 25_0		1:1	0.023	0.013	-0.03	22.64	23.00	1.086	0.025	0.014	22.1
Top side	10	QPSK 25_0	23095/707.5	1:1	0.229	0.127	0.16	22.64	23.00	1.086	0.249	0.138	22.1

Table 16: SAR of LTE Band 12 for Head, Body and Hotspot is covering LTE Band 17.

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Report No.: SUCR250100002701

Rev.: 01

Page: 73 of 153

## 8.2.8 SAR Result of LTE Band 13

0.2.0 JAK K			- Bana 10	LTE	Band 1	3 SAR 1	Test Re	cord					
						Test Re							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	SAR	Liquid Temp.(℃)
					Head T	est Dat	a(1RB)						
Left cheek	10	QPSK 1_0	23230/782	1:1	0.851	0.476	0.03	23.77	24.00	1.054	0.897	0.502	22.1
Left tilted	10	QPSK 1_0	23230/782	1:1	0.715	0.400	0.17	23.77	24.00	1.054	0.754	0.422	22.1
Right cheek	10	QPSK 1_0	23230/782	1:1	1.050	0.587	-0.02	23.77	24.00	1.054	1.107	0.619	22.1
Right cheek-repeated	10	QPSK 1_0	23230/782	1:1	1.040	0.585	0.08	23.77	24.00	1.054	1.097	0.617	22.1
Right tilted	10	QPSK 1_0	23230/782	1:1	0.931	0.520	0.19	23.77	24.00	1.054	0.982	0.548	22.1
				H	lead Te	st Data(	50%RB	5)					
Left cheek	10	QPSK 25_0	23230/782	1:1	0.681	0.387	0.00	22.66	23.00	1.081	0.736	0.419	22.1
Left tilted	10	QPSK 25_0	23230/782	1:1	0.568	0.319	-0.07	22.66	23.00	1.081	0.614	0.345	22.1
Right cheek	10	QPSK 25_0	23230/782	1:1	0.838	0.468	0.13	22.66	23.00	1.081	0.906	0.506	22.1
Right tilted	10	QPSK 25_0	23230/782	1:1	0.742	0.415	0.18	22.66	23.00	1.081	0.802	0.449	22.1
				H	ead Tes	st Data(	100%RI	3)					
Left cheek	10	QPSK 50_0	23230/782	1:1	0.659	0.359	0.08	22.62	23.00	1.091	0.719	0.392	22.1
Right cheek	10	QPSK 50_0	23230/782	1:1	0.821	0.462	-0.14	22.62	23.00	1.091	0.896	0.504	22.1
Right tilted	10	QPSK 50_0	23230/782	1:1	0.728	0.409	0.06	22.62	23.00	1.091	0.795	0.446	22.1
			Вос	dy worr	n Test d	ata(Sep	arate 1	5mm 1RB)					
Front side	10	QPSK 1_0	23230/782	1:1	0.198	0.154	0.16	23.77	24.00	1.054	0.209	0.162	22.1
Back side	10	QPSK 1_0	23230/782	1:1	0.219	0.170	-0.01	23.77	24.00	1.054	0.231	0.179	22.1
			Body	worn ·	Test dat	a(Sepa	rate 15r	nm 50%RB)					
Front side	10	QPSK 25_0	23230/782	1:1	0.159	0.126	-0.12	22.66	23.00	1.081	0.172	0.136	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.178	0.138	0.07	22.66	23.00	1.081	0.192	0.149	22.1
			Ho	otspot <sup>-</sup>	Test dat	a(Sepa	rate 10r	nm 1RB)					
Front side	10	QPSK 1_0	23230/782	1:1	0.303	0.167	0.09	23.77	24.00	1.054	0.319	0.176	22.1
Back side	10	QPSK 1_0	23230/782	1:1	0.471	0.260	-0.01	23.77	24.00	1.054	0.497	0.274	22.1
Left side	10	QPSK 1_0	23230/782	1:1	0.166	0.092	0.13	23.77	24.00	1.054	0.175	0.097	22.1
Right side	10	QPSK 1_0	23230/782	1:1	0.042	0.023	-0.04	23.77	24.00	1.054	0.044	0.024	22.1
Top side	10	QPSK 1_0	23230/782	1:1	0.418	0.231	0.17	23.77	24.00	1.054	0.441	0.244	22.1
			Hot	spot Te	est data	(Separa	te 10mr	m 50%RB)					
Front side	10	QPSK 25_0	23230/782	1:1	0.241	0.131	-0.04	22.66	23.00	1.081	0.261	0.142	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.379	0.205	0.07	22.66	23.00	1.081	0.410	0.222	22.1
Left side	10	QPSK 25_0	23230/782	1:1	0.138	0.071	-0.05	22.66	23.00	1.081	0.149	0.077	22.1
Right side	10	QPSK 25_0	23230/782	1:1	0.039	0.018	-0.15	22.66	23.00	1.081	0.042	0.019	22.1
Top side	10	QPSK 25_0	23230/782	1:1	0.331	0.183	0.02	22.66	23.00	1.081	0.358	0.198	22.1

Table 17: SAR of LTE Band 13 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 74 of 153

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	23230/782	1.05	1.04	1.009615385	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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<sup>2)</sup> 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).

<sup>3)</sup> 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.

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



Report No.: SUCR250100002701

Rev.: 01

Page: 75 of 153

## 8.2.9 SAR Result of LTE Band 14

6.2.9 SAN N				LTE	Band 1	4 SAR 1	Гest Re	cord					
						Test Re							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)		Power drift (dB)	Conducted Power(dBm)		Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Head T	est Dat	a(1RB)						
Left cheek	10	QPSK 1_0	23330/793	1:1	0.930	0.522	0.15	23.72	24.00	1.067	0.992	0.557	22.1
Left tilted	10	QPSK 1_0	23330/793	1:1	0.829	0.465	0.16	23.72	24.00	1.067	0.884	0.496	22.1
Right cheek	10	QPSK 1_0	23330/793	1:1	1.100	0.617	0.02	23.72	24.00	1.067	1.173	0.658	22.1
Right cheek-repeated	10	QPSK 1_0	23330/793	1:1	1.080	0.616	0.04	23.72	24.00	1.067	1.152	0.657	22.1
Right tilted	10	QPSK 1_0	23330/793	1:1	1.050	0.594	-0.09	23.72	24.00	1.067	1.120	0.634	22.1
				H	lead Te	st Data(	50%RE	3)					
Left cheek	10	QPSK 25_0	23330/793	1:1	0.774	0.434	0.03	22.65	23.00	1.084	0.839	0.470	22.1
Left tilted	10	QPSK 25_0	23330/793	1:1	0.690	0.387	0.13	22.65	23.00	1.084	0.748	0.419	22.1
Right cheek	10	QPSK 25_0	23330/793	1:1	0.915	0.513	-0.17	22.65	23.00	1.084	0.992	0.556	22.1
Right tilted	10	QPSK 25_0	23330/793	1:1	0.873	0.494	-0.10	22.65	23.00	1.084	0.946	0.535	22.1
				H	ead Tes	st Data(	100%RI	3)					
Left cheek	10	QPSK 50_0	23330/793	1:1	0.753	0.419	0.03	22.64	23.00	1.086	0.818	0.455	22.1
Left tilted	10	QPSK 50_0	23330/793	1:1	0.668	0.370	0.02	22.64	23.00	1.086	0.726	0.402	22.1
Right cheek	10	QPSK 50_0	23330/793	1:1	0.889	0.501	-0.10	22.64	23.00	1.086	0.966	0.544	22.1
Right tilted	10	QPSK 50_0	23330/793	1:1	0.853	0.482	0.05	22.64	23.00	1.086	0.927	0.524	22.1
				Head	d Test D	ata(1RE	B) For E	NDC					
Left cheek	10	QPSK 1_0	23330/793	1:1	0.930	0.522	0.08	23.72	21.00	0.535	0.497	0.279	22.1
Left tilted	10	QPSK 1_0	23330/793	1:1	0.829	0.465	0.10	23.72	21.00	0.535	0.443	0.249	22.1
Right cheek	10	QPSK 1_0	23330/793	1:1	1.100	0.617	0.02	23.72	21.00	0.535	0.588	0.330	22.1
Right tilted	10	QPSK 1_0	23330/793	1:1	1.050	0.594	0.14	23.72	21.00	0.535	0.561	0.318	22.1
				F	lead Te	st Data(	50%RE	3)					
Left cheek	10	QPSK 25_0	23330/793	1:1	0.774	0.434	-0.06	22.65	20.00	0.543	0.420	0.236	22.1
Left tilted	10	QPSK 25_0	23330/793	1:1	0.690	0.387	0.17	22.65	20.00	0.543	0.375	0.210	22.1
Right cheek	10	QPSK 25_0	23330/793	1:1	0.915	0.513	-0.19	22.65	20.00	0.543	0.497	0.279	22.1
Right tilted	10	QPSK 25_0	23330/793	1:1	0.873	0.494	0.05	22.65	20.00	0.543	0.474	0.268	22.1
				H	ead Tes	t Data(	100%RI	3)					
Left cheek	10	QPSK 50_0	23330/793	1:1	0.753	0.419	0.03	22.64	20.00	0.545	0.410	0.228	22.1
Left tilted	10	QPSK 50_0	23330/793	1:1	0.668	0.370	0.02	22.64	20.00	0.545	0.364	0.201	22.1
Right cheek	10	QPSK 50_0	23330/793	1:1	0.889	0.501	-0.10	22.64	20.00	0.545	0.484	0.273	22.1
Right tilted	10	QPSK 50_0	23330/793	1:1	0.853	0.482	0.05	22.64	20.00	0.545	0.464	0.262	22.1
			Во	dy worr	n Test d	ata(Sep	arate 1	5mm 1RB)					
Front side	10	QPSK 1_0	23330/793	1:1	0.197	0.151	0.14	23.72	24.00	1.067	0.210	0.161	22.1
Back side	10	QPSK 1_0	23330/793	1:1	0.234	0.180	-0.02	23.72	24.00	1.067	0.250	0.192	22.1
				worn '	Test dat	a(Sepa	rate 15r	nm 50%RB)					
Front side	10	QPSK 25_0	23330/793	1:1	0.164	0.126	-0.16	22.65	23.00	1.084	0.178	0.137	22.1

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Report No.: SUCR250100002701

Rev.: 01

Page: 76 of 153

Back side	10	QPSK 25_0	23330/793	1:1	0.195	0.150	0.04	22.65	23.00	1.084	0.211	0.163	22.1
			H	otspot	Test dat	a(Sepai	rate 10n	nm 1RB)					
Front side	10	QPSK 1_0	23330/793	1:1	0.335	0.184	0.05	23.72	24.00	1.067	0.357	0.196	22.1
Back side	10	QPSK 1_0	23330/793	1:1	0.561	0.309	0.02	23.72	24.00	1.067	0.598	0.330	22.1
Left side	10	QPSK 1_0	23330/793	1:1	0.177	0.097	0.05	23.72	24.00	1.067	0.189	0.103	22.1
Right side	10	QPSK 1_0	23330/793	1:1	0.081	0.045	-0.12	23.72	24.00	1.067	0.086	0.048	22.1
Top side	10	QPSK 1_0	23330/793	1:1	0.484	0.267	0.15	23.72	24.00	1.067	0.516	0.285	22.1
	•		Hot	spot Te	est data	(Separa	te 10mr	n 50%RB)					
Front side	10	QPSK 25_0	23330/793	1:1	0.279	0.153	-0.04	22.65	23.00	1.084	0.302	0.166	22.1
Back side	10	QPSK 25_0	23330/793	1:1	0.467	0.257	0.05	22.65	23.00	1.084	0.506	0.279	22.1
Left side	10	QPSK 25_0	23330/793	1:1	0.147	0.081	-0.02	22.65	23.00	1.084	0.159	0.088	22.1
Right side	10	QPSK 25_0	23330/793	1:1	0.067	0.037	-0.18	22.65	23.00	1.084	0.073	0.040	22.1
Top side	10	QPSK 25_0	23330/793	1:1	0.403	0.222	0.03	22.65	23.00	1.084	0.437	0.241	22.1

Table 18: SAR of LTE Band 14 for Head, Body and Hotspot.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	23330/793	1.1	1.08	1.018518519	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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<sup>2)</sup> 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).

<sup>3)</sup> 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.

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



Report No.: SUCR250100002701

Rev.: 01

Page: 77 of 153

## 8.2.10 SAR Result of LTE Band 25

					LTE Ba	and 25 S	AR Test	Record					
						Ant 2 Tes							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Н	ead Test	Data(1F						
Left cheek	20	QPSK 1_0	26365/1882.5	1:1	0.433	0.231	-0.02	18.23	18.50	1.064	0.461	0.246	22.3
Left tilted	20	QPSK 1_0	26365/1882.5	1:1	0.238	0.127	0.19	18.23	18.50	1.064	0.253	0.135	22.3
Right cheek	20	QPSK 1_0	26365/1882.5	1:1	0.190	0.102	-0.03	18.23	18.50	1.064	0.202	0.109	22.3
Right tilted	20	QPSK 1_0	26365/1882.5	1:1	0.174	0.093	-0.18	18.23	18.50	1.064	0.185	0.099	22.3
					Hea	ad Test D	ata(50%	RB)					
Left cheek	20	QPSK 50_0	26365/1882.5	1:1	0.411	0.222	0.11	18.09	18.50	1.099	0.452	0.244	22.3
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.210	0.112	0.18	18.09	18.50	1.099	0.231	0.123	22.3
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.176	0.094	0.08	18.09	18.50	1.099	0.193	0.103	22.3
Right tilted	20	QPSK 50_0	26365/1882.5	1:1	0.164	0.087	0.09	18.09	18.50	1.099	0.180	0.096	22.3
				Boo	ly worn T	est data	(Separat	e 15mm 1RB)					
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.139	0.081	-0.04	22.26	22.50	1.057	0.147	0.086	22.3
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.242	0.141	-0.05	22.26	22.50	1.057	0.256	0.149	22.3
				Body	worn Te	st data(S	eparate	15mm 50%RB)					
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.119	0.069	0.03	22.11	22.50	1.094	0.130	0.075	22.3
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.219	0.127	0.09	22.11	22.50	1.094	0.240	0.139	22.3
				Но	tspot Te	st data(S	eparate	10mm 1RB)					
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.262	0.139	0.13	21.19	21.50	1.074	0.281	0.149	22.3
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.542	0.288	0.01	21.19	21.50	1.074	0.582	0.309	22.3
Right side	20	QPSK 1_0	26365/1882.5	1:1	0.403	0.214	-0.05	21.19	21.50	1.074	0.433	0.230	22.3
Top side	20	QPSK 1_0	26365/1882.5	1:1	0.279	0.148	-0.04	21.19	21.50	1.074	0.300	0.159	22.3
-			•	Hots	pot Test	data(Se	parate 10	Omm 50%RB)					
Front side	20	QPSK 50 0	26365/1882.5	1:1	0.241	0.128	0.16	21.09	21.50	1.099	0.265	0.141	22.3
Back side	20	QPSK 50 0	26365/1882.5	1:1	0.516	0.274	0.07	21.09	21.50	1.099	0.567	0.301	22.3
Right side	20	QPSK 50 0	26365/1882.5	1:1	0.384	0.204	0.03	21.09	21.50	1.099	0.422	0.224	22.3
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.272	0.144	0.14	21.09	21.50	1.099	0.299	0.158	22.3
-			Hotspot T	est data	(Separa	te 10mm	1RB) Fo	r LTE B2 For U	LCA/ENDC				
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.262	0.139	0.14	21.19	19.50	0.678	0.178	0.094	22.3
Back side	20	QPSK 1 0	26365/1882.5	1:1	0.542	0.288	0.01	21.19	19.50	0.678	0.367	0.195	22.3
Right side	20	QPSK 1_0	26365/1882.5	1:1	0.403	0.214	0.11	21.19	19.50	0.678	0.273	0.145	22.3
Top side	20	QPSK 1 0	26365/1882.5	1:1	0.279	0.148	0.01	21.19	19.50	0.678	0.189	0.100	22.3
•			1	Hots	spot Test	data(Se	parate 10	Omm 50%RB)				<u>.                                      </u>	
Front side	20	QPSK 50 0	26365/1882.5	1:1	0.241	0.128	-0.12	21.09	19.50	0.693	0.167	0.089	22.3
Back side	20	QPSK 50 0	•	1:1	0.516	0.274	-0.15	21.09	19.50	0.693	0.358	0.190	22.3
Right side	20	QPSK 50_0		1:1	0.384	0.204	-0.13	21.09	19.50	0.693	0.266	0.141	22.3
Top side	20		26365/1882.5	1:1	0.272	0.144	-0.04	21.09	19.50	0.693	0.189	0.100	22.3

Table 19: SAR of LTE Band 25 for Head, Body and Hotspot is covering LTE Band 2.

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Report No.: SUCR250100002701

Rev.: 01

Page: 78 of 153

## 8.2.11 SAR Result of LTE Band 26

	LTE Band 26 SAR Test Record												
						Test Re							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR		Power drift (dB)	Conducted Power(dBm)		Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Head T	est Dat	a(1RB)	•			, <b>,</b>	J,	
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.626	0.353	-0.12	21.83	22.00	1.040	0.651	0.367	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.612	0.345	-0.06	21.83	22.00	1.040	0.636	0.359	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.823	0.464	-0.01	21.83	22.00	1.040	0.856	0.483	22.5
Right cheek-repeated	15	QPSK 1_0	26865/831.5	1:1	0.819	0.462	-0.06	21.83	22.00	1.040	0.852	0.480	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.766	0.438	-0.10	21.83	22.00	1.040	0.797	0.455	22.5
				F	lead Te	st Data(	50%RB	3)					
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.603	0.328	-0.04	21.79	22.00	1.050	0.633	0.344	22.5
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.594	0.315	0.18	21.79	22.00	1.050	0.623	0.331	22.5
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.809	0.456	0.14	21.79	22.00	1.050	0.849	0.479	22.5
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.744	0.425	0.12	21.79	22.00	1.050	0.781	0.446	22.5
	1	Γ	I	Н	ead Tes	t Data(	100%RI	3)		1	1		
Right cheek	15	QPSK 75_0	l	1:1	0.792	0.453	0.06	21.84	22.00	1.038	0.822	0.470	22.5
	1	Γ	1	1				JLCA/ENDC		1	1		
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.626	0.353	0.05	21.83	21.00	0.826	0.517	0.292	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.612	0.345	0.11	21.83	21.00	0.826	0.506	0.285	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.823	0.464	-0.01	21.83	21.00	0.826	0.680	0.383	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.766	0.438	0.17	21.83	21.00	0.826	0.633	0.362	22.5
	1	T	Г	1	lead Te		1	<u>′</u>		l	l		
Left cheek	15	QPSK 36_0		1:1	0.603	0.328	-0.03	21.79	21.00	0.834	0.503	0.273	22.5
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.594	0.315	0.01	21.79	21.00	0.834	0.495	0.263	22.5
Right cheek	15	QPSK 36_0		1:1	0.809	0.456	-0.10	21.79	21.00	0.834	0.674	0.380	22.5
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.744	0.425	0.10	21.79	21.00	0.834	0.620	0.354	22.5
511111	1	000// == 0			ead Tes		1		04.00			0.070	
Right cheek	15	QPSK 75_0	26865/831.5	1:1	0.792	0.453	0.14	21.84	21.00	0.824	0.653	0.373	22.5
- · · · ·	45	0001/4 0	ı	,		· ·		5mm 1RB)	00.00	4 000	0.040	0.400	00.5
Front side	15	QPSK 1_0	26865/831.5	1:1	0.242	0.183	0.01	22.89	23.00	1.026	0.248	0.188	22.5
Back side	15	QPSK 1_0	26865/831.5	1:1	0.268	0.202	0.08	22.89	23.00	1.026	0.275	0.207	22.5
Frant -: d-	15	ODSK 20. 0						nm 50%RB)	22.00	1.000	0.400	0.450	20.5
Front side	1	QPSK 36_0		1:1		0.145		21.86	22.00	1.033	0.198	0.150	22.5
Back side	15	QPSK 36_0		1:1		0.160	l .	21.86	22.00	1.033	0.220	0.165	22.5
Front side	15	ODSK 1 0	ı					nm 1RB) 22.89	23.00	1.026	0.397	0.210	22.5
Front side  Back side	15 15	QPSK 1_0 QPSK 1_0	26865/831.5	1:1 1:1	0.607	0.213	-0.04	22.89	23.00	1.026	0.397	0.218	22.5 22.5
Left side	15	QPSK 1_0 QPSK 1_0	26865/831.5 26865/831.5	1:1	0.607	0.334	0.04	22.89	23.00	1.026	0.823	0.343	22.5
	15	QPSK 1_0		1:1	0.195	0.107	-0.11	22.89	23.00	1.026	0.200	0.110	22.5
Right side	10	WESK  _0	∠0000/031.5	1.1	0.093	0.052	<b>-</b> U. I I	22.09	23.00	1.020	0.097	0.053	22.5

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Report No.: SUCR250100002701

Rev.: 01

Page: 79 of 153

Top side	15	QPSK 1_0	26865/831.5	1:1	0.523	0.288	-0.11	22.89	23.00	1.026	0.536	0.295	22.5
Hotspot Test data(Separate 10mm 50%RB)													
Front side	15	QPSK 36_0	26865/831.5	1:1	0.313	0.172	0.19	21.86	22.00	1.033	0.323	0.178	22.5
Back side	15	QPSK 36_0	26865/831.5	1:1	0.482	0.265	0.10	21.86	22.00	1.033	0.498	0.274	22.5
Left side	15	QPSK 36_0	26865/831.5	1:1	0.158	0.087	0.04	21.86	22.00	1.033	0.163	0.090	22.5
Right side	15	QPSK 36_0	26865/831.5	1:1	0.075	0.041	-0.15	21.86	22.00	1.033	0.077	0.042	22.5
Top side	15	QPSK 36_0	26865/831.5	1:1	0.423	0.233	0.09	21.86	22.00	1.033	0.437	0.241	22.5

Table 20: SAR of LTE Band 26 for Head, Body and Hotspot is covering LTE Band 5.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)	1 3000	SAR (1g)	SAR (1g)
Right cheek	26865/831.5	0.823	0.819	1.004884005	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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<sup>2)</sup> 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).

<sup>3)</sup> 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.

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



Report No.: SUCR250100002701

Rev.: 01

Page: 80 of 153

### 8.2.12 SAR Result of LTE Band 38

				L	TE Ban	d 38 SA	R Test	Record												
					An	nt 4 Tes	t Recor	d												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)							
					Hea	d Test I	Data(1R	B)												
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.124	0.056	0.02	18.57	19.00	1.104	0.137	0.062	22.4							
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.083	0.038	-0.03	18.57	19.00	1.104	0.092	0.042	22.4							
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.327	0.149	-0.12	18.57	19.00	1.104	0.361	0.165	22.4							
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.132	0.060	0.09	18.57	19.00	1.104	0.146	0.066	22.4							
					Head	Test Da	ata(50%	RB)												
Left cheek	20	QPSK 50_0	38000/2595	1:1.58	0.104	0.047	0.15	18.38	19.00	1.153	0.120	0.054	22.4							
Left tilted	20	QPSK 50_0	38000/2595	1:1.58	0.049	0.022	-0.05	18.38	19.00	1.153	0.057	0.025	22.4							
Right cheek	20	QPSK 50_0	38000/2595	1:1.58	0.307	0.140	-0.07	18.38	19.00	1.153	0.354	0.161	22.4							
Right tilted	20	QPSK 50_0	38000/2595	1:1.58	0.107	0.049	-0.14	18.38	19.00	1.153	0.123	0.057	22.4							
				Body	worn Te	st data(	Separate	e 15mm 1RB)												
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.133	0.066	0.03	22.48	23.00	1.127	0.150	0.074	22.4							
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.191	0.095	-0.02	22.48	23.00	1.127	0.215	0.107	22.4							
				Body w	orn Test	data(Se	eparate	15mm 50%RB	)											
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.088	0.044	-0.13	21.41	22.00	1.146	0.101	0.050	22.4							
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.145	0.072	0.03	21.41	22.00	1.146	0.166	0.082	22.4							
				Hots	pot Test	data(Se	eparate	10mm 1RB)												
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.389	0.179	-0.03	20.08	20.50	1.102	0.428	0.197	22.4							
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.708	0.326	-0.03	20.08	20.50	1.102	0.780	0.359	22.4							
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.377	0.174	0.13	20.08	20.50	1.102	0.415	0.192	22.4							
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.237	0.109	0.14	20.08	20.50	1.102	0.261	0.120	22.4							
				Hotspo	t Test d	ata(Sep	arate 10	mm 50%RB)												
Front side	20	QPSK 50_0	38000/2595	1:1.58	0.284	0.131	0.10	19.90	20.50	1.148	0.326	0.150	22.4							
Back side	20	QPSK 50_0	38000/2595	1:1.58	0.597	0.275	-0.08	19.90	20.50	1.148	0.685	0.316	22.4							
Left side	20	QPSK 50_0	38000/2595	1:1.58	0.316	0.145	-0.15	19.90	20.50	1.148	0.363	0.166	22.4							
Top side	20	QPSK 50_0	38000/2595	1:1.58	0.149	0.069	0.18	19.90	20.50	1.148	0.171	0.079	22.4							
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Scaled SAR 10-g	Liquid Temp.(℃)							
rest position					. 9		, ,	Product specific 10gSAR Test data(Separate 0mm 1RB)												
rest position			Produ	ıct spec			st data(S	Separate 0mm	1RB)		(W/kg)	(W/kg)								
Back side	20	QPSK 1_0	Produ 38000/2595	uct spec 1:1.58			st data(S	Separate 0mm 22.48	1RB) 23.00	1.127	2.762	1.031	22.4							
	20	QPSK 1_0	38000/2595	1:1.58	ific 10g8 2.450	0.915	-0.11	•	23.00	1.127	•		22.4							

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 81 of 153

## 8.2.13 SAR Result of LTE Band 41

	LTE Band 41 SAR Test Record													
					An	t 4 Test	Recor	d						
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)		Liquid Temp.(℃)	
	1				Hea	d Test [	Data(1R	В)		1	1			
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.115	0.052	0.03	15.39	15.50	1.026	0.118	0.053	22.4	
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.060	0.027	-0.18	15.39	15.50	1.026	0.062	0.028	22.4	
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.245	0.111	-0.10	15.39	15.50	1.026	0.251	0.114	22.4	
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.083	0.038	-0.14	15.39	15.50	1.026	0.085	0.039	22.4	
					Head	Test Da	ata(50%	RB)						
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.108	0.049	0.04	15.36	15.50	1.033	0.112	0.051	22.4	
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.051	0.023	-0.18	15.36	15.50	1.033	0.053	0.024	22.4	
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.240	0.109	0.13	15.36	15.50	1.033	0.248	0.113	22.4	
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.078	0.036	0.19	15.36	15.50	1.033	0.081	0.037	22.4	
	Body worn Test data(Separate 15mm 1RB)													
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.107	0.052	0.14	20.22	20.50	1.067	0.114	0.055	22.4	
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.191	0.094	-0.04	20.22	20.50	1.067	0.204	0.100	22.4	
				Body wo	orn Test	data(Se	parate	15mm 50%RB	)					
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.084	0.042	0.09	20.09	20.50	1.099	0.092	0.046	22.4	
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.155	0.077	-0.10	20.09	20.50	1.099	0.170	0.085	22.4	
				Hotsp	oot Test	data(Se	parate	10mm 1RB)						
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.157	0.072	-0.18	18.67	19.00	1.079	0.169	0.078	22.4	
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.298	0.136	-0.04	18.67	19.00	1.079	0.322	0.147	22.4	
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.183	0.084	0.09	18.67	19.00	1.079	0.197	0.091	22.4	
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.131	0.060	0.15	18.67	19.00	1.079	0.141	0.065	22.4	
				Hotspo	t Test d	ata(Sep	arate 10	mm 50%RB)						
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.119	0.054	0.05	18.59	19.00	1.099	0.131	0.059	22.4	
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.250	0.114	-0.02	18.59	19.00	1.099	0.275	0.125	22.4	
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.145	0.066	-0.10	18.59	19.00	1.099	0.159	0.073	22.4	
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.099	0.045	-0.08	18.59	19.00	1.099	0.109	0.049	22.4	

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 82 of 153

### 8.2.14 SAR Result of LTE Band 42

0.2.14 SAN	8.2.14 SAR Result of LTE Band 42  LTE Band 42 SAR Test Record												
				LTE	Band 4	2 SAR	Test Re	cord					
					Ant 2	Test R	ecord	ı					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Head T	est Dat	a(1RB)						
Left cheek	20	QPSK 1_0	42590/3500	1:1.58	0.448	0.164	-0.07	19.71	20.00	1.069	0.479	0.175	22.3
Left cheek-UL CA	20	QPSK 1_0	42590+42788/ 3500+3519.8	1:1.58	0.441	0.163	-0.09	19.68	20.00	1.076	0.475	0.175	22.3
Left tilted	20	QPSK 1_0	42590/3500	1:1.58	0.295	0.108	-0.12	19.71	20.00	1.069	0.315	0.115	22.3
Right cheek	20	QPSK 1_0	42590/3500	1:1.58	0.143	0.052	0.03	19.71	20.00	1.069	0.153	0.056	22.3
Right tilted	20	QPSK 1_0	42590/3500	1:1.58	0.196	0.072	0.03	19.71	20.00	1.069	0.210	0.077	22.3
				F	lead Te	st Data	(50%RB	3)					
Left cheek	20	QPSK 50_0	42590/3500	1:1.58	0.426	0.156	0.00	19.61	20.00	1.094	0.466	0.171	22.3
Left tilted	20	QPSK 50_0	42590/3500	1:1.58	0.269	0.099	0.09	19.61	20.00	1.094	0.294	0.108	22.3
Right cheek	20	QPSK 50_0	42590/3500	1:1.58	0.118	0.043	0.16	19.61	20.00	1.094	0.129	0.047	22.3
Right tilted	20	QPSK 50_0	42590/3500	1:1.58	0.160	0.059	-0.10	19.61	20.00	1.094	0.175	0.065	22.3
			Во	dy wor	n Test d	ata(Sep	arate 1	5mm 1RB)					
Front side	20	QPSK 1_0	42590/3500	1:1.58	0.167	0.072	0.07	21.74	22.00	1.062	0.177	0.076	22.3
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.604	0.260	-0.04	21.74	22.00	1.062	0.641	0.276	22.3
Back side-UL CA	20	QPSK 1_0	42590+42788/ 3500+3519.8	1:1.58	0.598	0.257	-0.03	21.72	22.00	1.067	0.638	0.274	22.3
			Body	y worn	Test da	ta(Sepa	rate 15r	mm 50%RB)					
Front side	20	QPSK 50_0	42590/3500	1:1.58	0.125	0.054	-0.19	21.61	22.00	1.094	0.137	0.059	22.3
Back side	20	QPSK 50_0	42590/3500	1:1.58	0.579	0.249	-0.12	21.61	22.00	1.094	0.633	0.272	22.3
			Н	otspot '	Test dat	a(Sepa	rate 10r	nm 1RB)					
Front side	20	QPSK 1_0	42590/3500	1:1.58	0.149	0.058	-0.19	20.76	21.00	1.057	0.157	0.061	22.3
Back side	20	QPSK 1_0	42590/3500	1:1.58	0.714	0.279	-0.01	20.76	21.00	1.057	0.755	0.295	22.3
Back side-UL CA	20	QPSK 1_0	42590/3500	1:1.58	0.708	0.272	-0.19	20.73	21.00	1.064	0.753	0.289	22.3
Right side	20	QPSK 1_0	42590/3500	1:1.58	0.685	0.268	0.17	20.76	21.00	1.057	0.724	0.283	22.3
Top side	20	QPSK 1_0	42590/3500	1:1.58	0.171	0.067	-0.05	20.76	21.00	1.057	0.181	0.071	22.3
			Hot	tspot Te	est data	(Separa	te 10m	m 50%RB)					
Front side	20	QPSK 50_0	42590/3500	1:1.58	0.137	0.054	0.13	20.62	21.00	1.091	0.150	0.059	22.3
Back side	20	QPSK 50_0	42590/3500	1:1.58	0.687	0.268	0.02	20.62	21.00	1.091	0.750	0.293	22.3
Right side	20	QPSK 50_0	42590/3500	1:1.58	0.653	0.255	-0.08	20.62	21.00	1.091	0.713	0.278	22.3
Top side	20	QPSK 50_0	42590/3500	1:1.58	0.116	0.046	0.10	20.62	21.00	1.091	0.127	0.050	22.3
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	SAR 10-g	Liquid Temp.(℃)
			Product s	pecific	10gSAR	Test da	ata (Sep	parate 0mm 1F	RB)				
Back side	20	QPSK 1_0	42590/3500	1:1.58	5.310	1.660	-0.04	21.74	22.00	1.062	5.638	1.762	22.3
Right side	20	QPSK 1_0	42590/3500	1:1.58	10.200	2.920	-0.01	21.74	22.00	1.062	10.829	3.100	22.3
Right side-UL CA	20	QPSK 1_0	42590+42788/	1:1.58	9.890	2.870	0.06	21.72	22.00	1.067	10.549	3.061	22.3

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Report No.: SUCR250100002701

Rev.: 01

Page: 83 of 153

			3500+3519.8										
Right side-repeated	20	QPSK 1_0	42590/3500	1:1.58	10.100	2.890	0.03	21.74	22.00	1.062	10.723	3.068	22.3
Right side	20	QPSK 1_0	42190/3460	1:1.58	9.510	2.720	0.12	21.55	22.00	1.109	10.548	3.017	22.3
Right side	20	QPSK 1_0	42990/3540	1:1.58	9.000	2.570	-0.10	21.48	22.00	1.127	10.145	2.897	22.3
			Product spe	ecific 10	gSAR 7	Test dat	a (Sepa	rate 0mm 50%	RB)				
Back side	20	QPSK 50_0	42590/3500	1:1.58	5.120	1.530	-0.14	21.61	22.00	1.094	5.601	1.674	22.3
Right side	20	QPSK 50_0	42590/3500	1:1.58	9.810	2.810	0.05	21.61	22.00	1.094	10.732	3.074	22.3
Right side	20	QPSK 50_0	42190/3460	1:1.58	9.150	2.620	-0.07	21.52	22.00	1.117	10.219	2.926	22.3
Right side	20	QPSK 50_0	42990/3540	1:1.58	8.940	2.560	0.12	21.49	22.00	1.125	10.054	2.879	22.3
_			Product spe	cific 10	gSAR T	est data	(Separ	rate 0mm 1009	%RB)				
Right side	20	QPSK 100_0	42590/3500	1:1.58	9.530	2.730	0.13	21.54	22.00	1.112	10.595	3.035	22.3

Table 23: SAR of LTE Band 42 for Head, Body and Hotspot.

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)	1 3000	SAR (1g)	SAR (1g)
Right side	42590/3500	2.92	2.89	1.010380623	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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<sup>2)</sup> 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).

<sup>3)</sup> 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.

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



Report No.: SUCR250100002701

Rev.: 01

Page: 84 of 153

### 8.2.15 SAR Result of LTE Band 48

Head   Test Data   Left cheek   20   QPSK 1_0   55990/3625   11.58   0.500   0.27   0.088   0.195   0.06   20.49   21.50   1.262   0.656   0.254   22.3					LTI	E Band	48 SAF	R Test F	Record					
Test position						Ant	2 Test	Record						
Left cheek	Test position	BW.	Test mode	Test ch./Freq.		(W/kg)	(W/kg)	drift	Conducted		Scaled	SAR 1-g	SAR 10-g	
Left cheek-UL CA 20 QPSK 1_0 55990/3625 1:1.58 0.508 0.195 -0.06 20.49 21.50 1.262 0.641 0.246 22.3  Left tilted 20 QPSK 1_0 55990/3625 1:1.58 0.243 0.167 -0.19 20.49 21.50 1.262 0.546 0.211 22.3  Right tilted 20 QPSK 1_0 55990/3625 1:1.58 0.264 0.102 0.07 20.49 21.50 1.262 0.33 0.129 22.3  Right tilted 20 QPSK 5_0 55990/3625 1:1.58 0.264 0.102 0.07 20.49 21.50 1.262 0.33 0.226 22.3  Left tilted 20 QPSK 5_0 5990/3625 1:1.58 0.264 0.102 0.07 20.49 21.50 1.262 0.533 0.226 22.3  Left tilted 20 QPSK 5_0 5990/3625 1:1.58 0.265 0.157 0.08 20.49 21.50 1.262 0.533 0.226 22.3  Left tilted 20 QPSK 5_0 5990/3625 1:1.58 0.405 0.157 0.08 20.49 21.50 1.262 0.533 0.226 22.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.405 0.157 0.08 20.49 21.50 1.262 0.511 0.188 22.3  Left tilted 20 QPSK 5_0 5990/3625 1:1.58 0.405 0.199 0.073 0.18 20.49 21.50 1.262 0.238 0.092 22.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.490 0.073 0.18 20.49 21.50 1.262 0.297 0.115 22.3  Left tilted 20 QPSK 1_0 5990/3625 1:1.58 0.490 0.091 0.071 0.049 21.50 1.262 0.297 0.115 22.3  Left tilted 20 QPSK 1_0 5990/3625 1:1.58 0.430 0.167 0.05 20.38 19.50 0.817 0.354 0.136 22.3  Right tilted 20 QPSK 1_0 5990/3625 1:1.58 0.430 0.167 0.05 20.38 19.50 0.817 0.354 0.136 22.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.264 0.102 0.03 20.38 19.50 0.817 0.316 0.022 22.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.264 0.102 0.03 20.38 19.50 0.817 0.316 0.023 22.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.405 0.179 0.07 20.38 19.50 0.817 0.316 0.22 2.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.305 0.091 0.073 0.038 19.50 0.817 0.316 0.22 2.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.305 0.091 0.073 20.38 19.50 0.817 0.316 0.22 2.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.305 0.091 0.073 20.38 19.50 0.817 0.32 0.042 22.3  Right tilted 20 QPSK 5_0 5990/3625 1:1.58 0.305 0.091 0.073 20.38 19.50 0.817 0.32 0.042 22.3  Back side 20 QPSK 5_0 5990/3625 1:1.58 0.305 0.091 0.073 20.38 19.50 0.817 0.30 0.092 22.3  Back side 20 QPSK 5_0 5990/3625 1:1.58 0.305 0.09						Head	Test D	ata(1RE	3)					
Left chilled 20 QPSK 1_0 3625+3644.8   11-0.8   0.908   0.198   -0.06   20.49   21-50   1.262   0.544   0.240   22.3   Right cheek 20 QPSK 1_0 55990/3625   11-1.58   0.247   0.088   0.19   20.49   21-50   1.262   0.546   0.211   22.3   Right tilted 20 QPSK 1_0 55990/3625   11-1.58   0.247   0.088   0.19   20.49   21-50   1.262   0.380   0.119   22.3    Head Test Data(50%RB)  Head Test Data(50%RB)  Left cheek 20 QPSK 50_0 55990/3625   11-1.58   0.405   0.107   0.04   20.49   21-50   1.262   0.583   0.226   22.3   Right cheek 20 QPSK 50_0 55990/3625   11-1.58   0.405   0.179   0.04   20.49   21-50   1.262   0.583   0.226   22.3   Right cheek 20 QPSK 50_0 55990/3625   11-1.58   0.405   0.157   -0.08   20.49   21-50   1.262   0.511   0.198   22.3   Right cheek 20 QPSK 50_0 55990/3625   11-1.58   0.405   0.177   -0.08   20.49   21-50   1.262   0.511   0.198   22.3   Right cheek 20 QPSK 50_0 55990/3625   11-1.58   0.405   0.177   -0.08   20.49   21-50   1.262   0.597   0.115   22.3   Left tilted 20 QPSK 1_0 55990/3625   11-1.58   0.405   0.107   0.02   20.38   19.50   0.817   0.425   0.164   22.3   Right cheek 20 QPSK 1_0 55990/3625   11-1.58   0.240   0.102   0.03   20.38   19.50   0.817   0.425   0.164   22.3   Right cheek 20 QPSK 1_0 55990/3625   11-1.58   0.240   0.102   0.03   20.38   19.50   0.817   0.354   0.136   22.3   Right tilted 20 QPSK 1_0 55990/3625   11-1.58   0.405   0.167   0.05   20.38   19.50   0.817   0.185   0.072   22.3   Right tilted 20 QPSK 5_0 55990/3625   11-1.58   0.405   0.179   0.07   20.38   19.50   0.817   0.377   0.146   22.3   Right tilted 20 QPSK 5_0 55990/3625   11-1.58   0.405   0.179   0.07   20.38   19.50   0.817   0.377   0.146   22.3   Right tilted 20 QPSK 5_0 55990/3625   11-1.58   0.405   0.147   0.07   20.38   19.50   0.817   0.377   0.146   22.3   Right tilted 20 QPSK 5_0 55990/3625   11-1.58   0.405   0.147   0.07   20.38   19.50   0.817   0.377   0.146   0.060   22.3   Right tilted 20 QPSK 5_0 55990/3625   11-1.58   0.365   0.147   0.07   20.38   19.50   0.817   0.349   0	Left cheek	20	QPSK 1_0	55990/3625	1:1.58	0.520	0.201	0.02	20.49	21.50	1.262	0.656	0.254	22.3
Right cheek   20	Left cheek-UL CA	20	QPSK 1_0		1:1.58	0.508	0.195	-0.06	20.49	21.50	1.262	0.641	0.246	22.3
Right tilted   20	Left tilted	20	QPSK 1_0	55990/3625	1:1.58	0.433	0.167	-0.19	20.49	21.50	1.262	0.546	0.211	22.3
Head Test Data(50%RB)   Left cheek   20   OPSK 50_0   55990/3625   1:1.58   0.462   0.179   -0.04   20.49   21.50   1.262   0.583   0.226   22.3	Right cheek	20	QPSK 1_0	55990/3625	1:1.58	0.227	0.088	0.19	20.49	21.50	1.262	0.286	0.111	22.3
Left cheek	Right tilted	20	QPSK 1_0	55990/3625	1:1.58	0.264	0.102	0.07	20.49	21.50	1.262	0.333	0.129	22.3
Left tilted   20						Head T	est Dat	a(50%F	RB)					
Right cheek   20	Left cheek	20	QPSK 50_0	55990/3625	1:1.58	0.462	0.179	-0.04	20.49	21.50	1.262	0.583	0.226	22.3
Right tilted   20	Left tilted	20	QPSK 50_0	55990/3625	1:1.58	0.405	0.157	-0.08	20.49	21.50	1.262	0.511	0.198	22.3
Head Test Data(1RB) For ULCA/ENDC	Right cheek	20	QPSK 50_0	55990/3625	1:1.58	0.189	0.073	0.18	20.49	21.50	1.262	0.238	0.092	22.3
Left cheek	Right tilted	20	QPSK 50_0	55990/3625	1:1.58	0.235	0.091	-0.17	20.49	21.50	1.262	0.297	0.115	22.3
Left tilted   20					Head <sup>-</sup>	Test Da	ta(1RB)	For UL	CA/ENDC					
Right cheek   20	Left cheek	20	QPSK 1_0	55990/3625	1:1.58	0.520	0.201	0.02	20.38	19.50	0.817	0.425	0.164	22.3
Right tilted   20	Left tilted	20	QPSK 1_0	55990/3625	1:1.58	0.433	0.167	-0.05	20.38	19.50	0.817	0.354	0.136	22.3
Head Test Data	Right cheek	20	QPSK 1_0	55990/3625	1:1.58	0.227	0.088	-0.11	20.38	19.50	0.817	0.185	0.072	22.3
Left cheek	Right tilted	20	QPSK 1_0	55990/3625	1:1.58	0.264	0.102	0.03	20.38	19.50	0.817	0.216	0.083	22.3
Left tilted 20 QPSK 50_0 55990/3625 1:1.58 0.405 0.157 0.08 20.38 19.50 0.817 0.331 0.128 22.3 Right cheek 20 QPSK 50_0 55990/3625 1:1.58 0.189 0.073 0.13 20.38 19.50 0.817 0.154 0.060 22.3 Right tilted 20 QPSK 50_0 55990/3625 1:1.58 0.235 0.091 0.13 20.38 19.50 0.817 0.192 0.074 22.3 Body worn Test data(Separate 15mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.101 0.043 0.02 20.94 22.50 1.432 0.445 0.062 22.3 Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 22.50 1.432 0.480 0.208 22.3 Back side 20 QPSK 1_0 55990/3625 1:1.58 0.335 0.145 0.06 20.94 22.50 1.432 0.480 0.208 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.335 0.145 0.06 20.94 22.50 1.432 0.480 0.208 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.335 0.145 0.06 20.94 22.50 1.432 0.480 0.208 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.088 0.038 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3 Back side 20 QPSK 1_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3 Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.199 20.35 20.00 0.923 0.055 0.024 22.3 Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.199 20.35 20.00 0.923 0.091 0.124 22.3						Head T	est Dat	a(50%F	RB)					
Right cheek 20 QPSK 50_0 55990/3625 1:1.58 0.189 0.073 0.13 20.38 19.50 0.817 0.154 0.060 22.3  Right tilted 20 QPSK 50_0 55990/3625 1:1.58 0.235 0.091 -0.13 20.38 19.50 0.817 0.192 0.074 22.3  Body worn Test data(Separate 15mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 22.50 1.432 0.497 0.211 22.3  Back side-UL CA 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 22.50 1.432 0.497 0.211 22.3  Back side-UL CA 20 QPSK 1_0 55990/3625 1:1.58 0.335 0.145 -0.06 20.94 22.50 1.432 0.480 0.208 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 0.16 20.35 22.00 1.462 0.088 0.038 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.307 0.147 0.07 20.94 20.50 0.904 0.91 0.039 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.307 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3	Left cheek	20	QPSK 50_0	55990/3625	1:1.58	0.462	0.179	0.07	20.38	19.50	0.817	0.377	0.146	22.3
Right tilted   20	Left tilted	20	QPSK 50_0	55990/3625	1:1.58	0.405	0.157	0.08	20.38	19.50	0.817	0.331	0.128	22.3
Body worn Test data(Separate 15mm 1RB)	Right cheek	20	QPSK 50_0	55990/3625	1:1.58	0.189	0.073	0.13	20.38	19.50	0.817	0.154	0.060	22.3
Front side	Right tilted	20	QPSK 50_0	55990/3625	1:1.58	0.235	0.091	-0.13	20.38	19.50	0.817	0.192	0.074	22.3
Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 22.50 1.432 <b>0.497</b> 0.211 22.3  Back side-UL CA 20 QPSK 1_0 55990+56188/ 3625+3644.8 1:1.58 0.335 0.145 -0.06 20.94 22.50 1.432 0.480 0.208 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 0.16 20.35 22.00 1.462 0.088 0.038 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Body worn Test data(Separate 15mm 1RB) For ULCA/ENDC  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.101 0.043 0.04 20.94 20.50 0.904 0.091 0.039 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 1.396 0.177 0.068 22.3				E	Body wo	orn Test	data(S	eparate	15mm 1RB)					
Back side-UL CA 20 QPSK 1_0 55990+56188/ 3625+3644.8 1:1.58 0.335 0.145 -0.06 20.94 22.50 1.432 0.480 0.208 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 0.16 20.35 22.00 1.462 0.088 0.038 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Body worn Test data(Separate 15mm 1RB) For ULCA/ENDC  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.101 0.043 0.04 20.94 20.50 0.904 0.091 0.039 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.127 0.049 0.15 19.55 21.00 1.396 0.177 0.068 22.3	Front side	20	QPSK 1_0	55990/3625	1:1.58	0.101	0.043	-0.02	20.94	22.50	1.432	0.145	0.062	22.3
Back side -UCA   20   QPSK 1_0   3625+3644.8   11.58   0.335   0.145   -0.06   20.94   22.50   1.432   0.460   0.208   22.3    Body worn Test data(Separate 15mm 50%RB)  Front side   20   QPSK 50_0   55990/3625   1:1.58   0.060   0.026   0.16   20.35   22.00   1.462   0.088   0.038   22.3    Back side   20   QPSK 50_0   55990/3625   1:1.58   0.315   0.134   0.01   20.35   22.00   1.462   0.461   0.196   22.3    Body worn Test data(Separate 15mm 1RB) For ULCA/ENDC  Front side   20   QPSK 1_0   55990/3625   1:1.58   0.101   0.043   0.04   20.94   20.50   0.904   0.091   0.039   22.3    Back side   20   QPSK 1_0   55990/3625   1:1.58   0.347   0.147   0.07   20.94   20.50   0.904   0.314   0.133   22.3    Body worn Test data(Separate 15mm 50%RB)  Front side   20   QPSK 50_0   55990/3625   1:1.58   0.060   0.026   -0.04   20.35   20.00   0.923   0.055   0.024   22.3    Back side   20   QPSK 50_0   55990/3625   1:1.58   0.315   0.134   -0.19   20.35   20.00   0.923   0.291   0.124   22.3    Hotspot Test data(Separate 10mm 1RB)  Front side   20   QPSK 1_0   55990/3625   1:1.58   0.127   0.049   0.15   19.55   21.00   1.396   0.177   0.068   22.3	Back side	20	QPSK 1_0		1:1.58	0.347	0.147	0.07	20.94	22.50	1.432	0.497	0.211	22.3
Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 0.16 20.35 22.00 1.462 0.088 0.038 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Body worn Test data(Separate 15mm 1RB) For ULCA/ENDC  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.301 0.043 0.04 20.94 20.50 0.904 0.091 0.039 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 21.00 1.396 0.177 0.068 22.3	Back side-UL CA	20	QPSK 1_0		1:1.58	0.335	0.145	-0.06	20.94	22.50	1.432	0.480	0.208	22.3
Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 0.01 20.35 22.00 1.462 0.461 0.196 22.3  Body worn Test data(Separate 15mm 1RB) For ULCA/ENDC  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.101 0.043 0.04 20.94 20.50 0.904 0.091 0.039 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.127 0.049 0.15 19.55 21.00 1.396 0.177 0.068 22.3				Во	dy wori	n Test d	ata(Sep	arate 1	5mm 50%RB)					
Body worn Test data(Separate 15mm 1RB) For ULCA/ENDC   Front side   20   QPSK 1_0   55990/3625   1:1.58   0.101   0.043   0.04   20.94   20.50   0.904   0.091   0.039   22.3	Front side		_						20.35	22.00	1.462		0.038	22.3
Front side 20 QPSK 1_0 55990/3625 1:1.58 0.101 0.043 0.04 20.94 20.50 0.904 0.091 0.039 22.3  Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.127 0.049 0.15 19.55 21.00 1.396 0.177 0.068 22.3	Back side	20	QPSK 50_0	55990/3625	1:1.58	0.315	0.134	0.01	20.35	22.00	1.462	0.461	0.196	22.3
Back side 20 QPSK 1_0 55990/3625 1:1.58 0.347 0.147 0.07 20.94 20.50 0.904 0.314 0.133 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_0 55990/3625 1:1.58 0.060 0.026 -0.04 20.35 20.00 0.923 0.055 0.024 22.3  Back side 20 QPSK 50_0 55990/3625 1:1.58 0.315 0.134 -0.19 20.35 20.00 0.923 0.291 0.124 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_0 55990/3625 1:1.58 0.127 0.049 0.15 19.55 21.00 1.396 0.177 0.068 22.3				Body wor	n Test o	data(Se <sub>l</sub>	parate 1	5mm 11	RB) For ULCA	/ENDC				
Body worn Test data(Separate 15mm 50%RB)  Front side	Front side	20	QPSK 1_0	55990/3625	1:1.58	0.101	0.043	0.04	20.94	20.50	0.904	0.091	0.039	22.3
Front side         20         QPSK 50_0         55990/3625         1:1.58         0.060         0.026         -0.04         20.35         20.00         0.923         0.055         0.024         22.3           Back side         20         QPSK 50_0         55990/3625         1:1.58         0.315         0.134         -0.19         20.35         20.00         0.923         0.291         0.124         22.3           Hotspot Test data(Separate 10mm 1RB)           Front side         20         QPSK 1_0         55990/3625         1:1.58         0.127         0.049         0.15         19.55         21.00         1.396         0.177         0.068         22.3	Back side	20	QPSK 1_0	55990/3625	1:1.58	0.347	0.147	0.07	20.94	20.50	0.904	0.314	0.133	22.3
Back side         20         QPSK 50_0         55990/3625         1:1.58         0.315         0.134         -0.19         20.35         20.00         0.923         0.291         0.124         22.3           Hotspot Test data(Separate 10mm 1RB)           Front side         20         QPSK 1_0         55990/3625         1:1.58         0.127         0.049         0.15         19.55         21.00         1.396         0.177         0.068         22.3			T	Во	dy wori	n Test d	ata(Sep	parate 1	5mm 50%RB)	T		ı		•
Hotspot Test data(Separate 10mm 1RB)  Front side	Front side	20	QPSK 50_0	55990/3625	1:1.58	0.060	0.026	-0.04	20.35	20.00	0.923	0.055	0.024	22.3
Front side 20 QPSK 1_0 55990/3625 1:1.58 0.127 0.049 0.15 19.55 21.00 1.396 0.177 0.068 22.3	Back side	20	QPSK 50_0	55990/3625	1:1.58	0.315	0.134	-0.19	20.35	20.00	0.923	0.291	0.124	22.3
					Hotspo	t Test d	ata(Sep	arate 1	0mm 1RB)					
		-	_					-						

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SUCR250100002701 Report No.:

Rev.: 01

Page: 85 of 153

Back side	20	QPSK 1_0	55990/3625	1:1.58	0.460	0.177	0.01	19.55	21.00	1.396	0.642	0.247	22.3		
Back side-UL CA	20	QPSK 1_0	55990+56188/ 3625+3644.8	1:1.58	0.451	0.173	-0.04	19.55	21.00	1.396	0.630	0.242	22.3		
Right side	20	QPSK 1_0	55990/3625	1:1.58	0.424	0.163	0.05	19.55	21.00	1.396	0.592	0.228	22.3		
Top side	20	QPSK 1_0	55990/3625	1:1.58	0.191	0.073	0.14	19.55	21.00	1.396	0.267	0.102	22.3		
			Н	otspot <sup>*</sup>	Test dat	a(Sepa	rate 10n	nm 50%RB)							
Front side	20	QPSK 50_0	55990/3625	1:1.58	0.096	0.037	0.15	19.44	21.00	1.432	0.137	0.053	22.3		
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.422	0.163	0.10	19.44	21.00	1.432	0.604	0.233	22.3		
Right side	20	QPSK 50_0	55990/3625	1:1.58	0.411	0.158	0.14	19.44	21.00	1.432	0.589	0.226	22.3		
Top side	20	QPSK 50_0	55990/3625	1:1.58	0.171	0.066	0.05	19.44	21.00	1.432	0.245	0.095	22.3		
	Hotspot Test data(Separate 10mm 1RB) For ULCA/ENDC														
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.127	0.049	-0.08	19.55	19.00	0.881	0.112	0.043	22.3		
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.460	0.177	0.01	19.55	19.00	0.881	0.405	0.156	22.3		
Right side	20	QPSK 1_0	55990/3625	1:1.58	0.424	0.163	0.01	19.55	19.00	0.881	0.374	0.144	22.3		
Top side	20	QPSK 1_0	55990/3625	1:1.58	0.191	0.073	0.01	19.55	19.00	0.881	0.168	0.064	22.3		
			Н	otspot <sup>*</sup>	Test dat	a(Sepa	rate 10n	nm 50%RB)							
Front side	20	QPSK 50_0	55990/3625	1:1.58	0.096	0.037	-0.04	19.44	19.00	0.904	0.087	0.033	22.3		
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.422	0.163	0.16	19.44	19.00	0.904	0.381	0.147	22.3		
Right side	20	QPSK 50_0	55990/3625	1:1.58	0.411	0.158	0.19	19.44	19.00	0.904	0.371	0.143	22.3		
Top side	20	QPSK 50_0	55990/3625	1:1.58	0.171	0.066	-0.13	19.44	19.00	0.904	0.155	0.060	22.3		
T 11 04 0		(	1.40 ( 11	_	_										

Table 24: SAR of LTE Band 48 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 86 of 153

## 8.2.16 SAR Result of LTE Band 66

				Lī	ΓΕ Band	d 66 SA	R Test	Record					
					An	t 2 Test	Recor	d					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	d Test [	Data(1R	B)					
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.566	0.304	0.08	19.22	19.50	1.067	0.604	0.324	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.253	0.136	-0.12	19.22	19.50	1.067	0.270	0.145	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.277	0.149	0.14	19.22	19.50	1.067	0.295	0.159	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.224	0.121	0.04	19.22	19.50	1.067	0.239	0.129	22.3
					Head	Test Da	ata(50%	RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.516	0.277	0.05	19.14	19.50	1.086	0.561	0.301	22.3
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.224	0.121	0.16	19.14	19.50	1.086	0.243	0.131	22.3
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.241	0.129	-0.18	19.14	19.50	1.086	0.262	0.140	22.3
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.199	0.107	-0.13	19.14	19.50	1.086	0.216	0.116	22.3
				Head	Test D	ata(1RE	) For U	LCA/ENDC					
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.566	0.304	0.08	19.22	18.50	0.847	0.480	0.258	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.253	0.136	-0.10	19.22	18.50	0.847	0.214	0.115	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.277	0.149	0.04	19.22	18.50	0.847	0.235	0.126	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.224	0.121	0.15	19.22	18.50	0.847	0.190	0.103	22.3
				1	Head	Test Da	ata(50%	RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.516	0.277	-0.08	19.14	18.50	0.863	0.445	0.239	22.3
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.224	0.121	-0.14	19.14	18.50	0.863	0.193	0.104	22.3
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.241	0.129	0.03	19.14	18.50	0.863	0.208	0.111	22.3
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.199	0.107	0.12	19.14	18.50	0.863	0.172	0.092	22.3
			1	Body w	vorn Tes	st data(S	Separate	e 15mm 1RB)		1		T	1
Front side	20	QPSK 1_0	132322/1745	1:1	0.167	0.110	-0.09	22.31	22.50	1.045	0.174	0.115	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.248	0.164	-0.01	22.31	22.50	1.045	0.259	0.171	22.3
			В	ody wo		data(Se	parate	15mm 50%RB	)	1		ı	r
Front side	20	QPSK 50_0	132322/1745	1:1	0.151	0.100	-0.07	22.15	22.50	1.084	0.164	0.108	22.3
Back side	20	QPSK 50_0	132322/1745	1:1	0.219	0.145	-0.01	22.15	22.50	1.084	0.237	0.157	22.3
			1	Hotsp	ot Test	·	parate	10mm 1RB)				ı	
Front side	20	QPSK 1_0	132322/1745	1:1	0.192	0.119	-0.03	21.25	21.50	1.059	0.203	0.126	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.341	0.211	0.01	21.25	21.50	1.059	0.361	0.224	22.3
Right side	20	QPSK 1_0	132322/1745	1:1	0.219		0.06	21.25	21.50	1.059	0.232	0.144	22.3
Top side	20	QPSK 1_0	132322/1745	1:1	0.287	1	-0.18	21.25	21.50	1.059	0.304	0.187	22.3
				Hotspo	t Test da	ata(Sep	arate 10	mm 50%RB)		1		ı	ı
Front side	20	QPSK 50_0	132322/1745	1:1	0.180	0.111	0.06	21.15	21.50	1.084	0.195	0.120	22.3
Back side	20	QPSK 50_0	132322/1745	1:1	0.315	0.195	-0.03	21.15	21.50	1.084	0.341	0.211	22.3
Right side	20	QPSK 50_0	132322/1745	1:1	0.203	0.126	-0.05	21.15	21.50	1.084	0.220	0.137	22.3
Top side	20	QPSK 50_0	132322/1745	1:1	0.274	0.169	0.11	21.15	21.50	1.084	0.297	0.183	22.3

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Report No.: SUCR250100002701

Rev.: 01

Page: 87 of 153

			Hotsnot	Test d	ata(Ser	arate 1	Omm 1F	RB) For ULCA/	ENDC:				
Front side	20	QPSK 1 0	132322/1745	1:1	0.192	0.119	0.07	21.25	20.50	0.841	0.162	0.100	22.3
Back side	20	QPSK 1 0	132322/1745	1:1	0.341	0.211	0.01	21.25	20.50	0.841	0.287	0.178	22.3
Right side	20	QPSK 1_0	132322/1745	1:1	0.219	0.136	0.01	21.25	20.50	0.841	0.184	0.114	22.3
Top side	20	QPSK 1_0	132322/1745	1:1	0.287	0.177	0.11	21.25	20.50	0.841	0.241	0.149	22.3
1000.00		Q: 0:: 1_0	l			l	l	)mm 50%RB)	20.00	0.011	0.211	0.110	22.0
Front side	20	QPSK 50 0	132322/1745	1:1	0.180	0.111	-0.11	21.15	20.50	0.861	0.155	0.096	22.3
Back side	20	QPSK 50 0	132322/1745	1:1	0.315	0.195	0.05	21.15	20.50	0.861	0.271	0.168	22.3
Right side	20	QPSK 50 0	132322/1745	1:1	0.203	0.126	0.04	21.15	20.50	0.861	0.175	0.108	22.3
Top side	20	QPSK 50 0	132322/1745	1:1	0.274	0.169	0.06	21.15	20.50	0.861	0.236	0.146	22.3
'					1 Test I			CA/ENDC					
					SAR	SAR	Power				Scaled		
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle		(W/kg)	drift	Conducted Power(dBm)		Scaled	SAR 1-g	SAR 10-g	Liquid Temp.(℃)
				Cycle	1-g	10-g	(dB)	i ower(abiii)	Lillin(aDill)	lactor	(W/kg)		remp.(0)
					Hea	d Test [	Data(1R	B)					
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.077	0.047	0.08	23.67	24.50	1.211	0.093	0.057	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.024	0.015	0.01	23.67	24.50	1.211	0.029	0.018	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.063	0.039	0.02	23.67	24.50	1.211	0.076	0.047	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.016	0.010	0.01	23.67	24.50	1.211	0.019	0.012	22.3
			1		Head	Test Da	ata(50%	RB)		1	ı	ı	
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.066	0.040	0.19	22.62	23.50	1.225	0.081	0.049	22.3
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.016	0.010	0.16	22.62	23.50	1.225	0.020	0.012	22.3
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.053	0.032	0.09	22.62	23.50	1.225	0.065	0.039	22.3
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.011	0.007	-0.16	22.62	23.50	1.225	0.013	0.009	22.3
			1	Body w	orn Tes	st data(S	Separate	e 15mm 1RB)		ı	ı	ı	1
Front side	20	QPSK 1_0	132322/1745	1:1	0.131	0.075	-0.10	21.64	22.50	1.219	0.160	0.091	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.211	0.118	-0.07	21.64	22.50	1.219	0.257	0.144	22.3
	ı			ody wo	rn Test	· ·	i –	15mm 50%RB		1	ı	ı	T
Front side	20	QPSK 50_0	132322/1745	1:1	0.119	0.069	-0.09	21.57	22.50	1.239	0.147	0.085	22.3
Back side	20	QPSK 50_0	132322/1745	1:1	0.182	0.110	0.12	21.57	22.50	1.239	0.225	0.136	22.3
			T.				i	10mm 1RB)		ı	ı	ı	ı
Front side	20	QPSK 1_0	132322/1745	1:1	0.272	0.152	-0.16	20.68	21.50	1.208	0.329	0.184	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.592		-0.09	20.68	21.50	1.208	0.715	0.399	22.3
Left side	20		132322/1745	1:1		0.021		20.68	21.50		0.047		22.3
Right side	20	QPSK 1_0	132322/1745	1:1	0.023	0.013	-0.06	20.68	21.50	1.208	0.028	0.016	22.3
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.738	0.411	0.02	20.68	21.50	1.208	0.891	0.496	22.3
Bottom side	20	QPSK 1_0	132072/1720	1:1	0.689	0.397	-0.15	20.41	21.50	1.285	0.886	0.510	22.3
Bottom side	20	QPSK 1_0	132572/1770	1:1	0.711	l	-0.18	20.53	21.50	1.250	0.889	0.504	22.3
								0mm 50%RB)					
Front side	20	QPSK 50_0	132322/1745	1:1	0.254		-0.09	20.62	21.50	1.225	0.311	0.173	22.3
Back side	20	QPSK 50_0	132322/1745	1:1	0.571	0.318	0.14	20.62	21.50	1.225	0.699	0.389	22.3
Left side	20	QPSK 50_0	132322/1745	1:1	0.022	0.012	-0.18	20.62	21.50	1.225	0.027	0.015	22.3
Right side	20	QPSK 50_0	132322/1745	1:1	0.011	0.006	-0.06	20.62	21.50	1.225	0.013	0.007	22.3

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SUCR250100002701 Report No.:

Rev.: 01

Page: 88 of 153

Bottom side	20	QPSK 50_0	132322/1745	1:1	0.724	0.403	0.18	20.62	21.50	1.225	0.887	0.494	22.3
Bottom side	20	QPSK 50_0	132072/1720	1:1	0.675	0.381	0.15	20.51	21.50	1.256	0.848	0.479	22.3
Bottom side	20	QPSK 50_0	132572/1770	1:1	0.706	0.392	-0.04	20.60	21.50	1.230	0.869	0.482	22.3
			I	Hotspo	t Test da	ata(Sepa	arate 10	mm 50%RB)					
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.687	0.388	-0.08	20.52	21.50	1.253	0.861	0.486	22.3

Table 25: SAR of LTE Band 66 for Head, Body and Hotspot is covering LTE Band 4.

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Report No.: SUCR250100002701

Rev.: 01

Page: 89 of 153

### 8.2.17 SAR Result of LTE Band 71

				L	TE Ban	d 71 SA	R Test	Record					
					Ar	nt 0 Tes	t Record	d					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	ad Test I	Data(1R	В)					
Left cheek	20	QPSK 1_0	133322/683	1:1	0.017	0.008	-0.16	22.67	23.00	1.079	0.018	0.009	22.1
Left tilted	20	QPSK 1_0	133322/683	1:1	0.027	0.012	-0.17	22.67	23.00	1.079	0.029	0.013	22.1
Right cheek	20	QPSK 1_0	133322/683	1:1	0.036	0.016	-0.07	22.67	23.00	1.079	0.039	0.017	22.1
Right tilted	20	QPSK 1_0	133322/683	1:1	0.053	0.024	-0.02	22.67	23.00	1.079	0.057	0.026	22.1
					Head	l Test Da	ata(50%	RB)					
Left cheek	20	QPSK 50_0	133322/683	1:1	0.010	0.005	-0.10	21.68	22.00	1.076	0.011	0.005	22.1
Left tilted	20	QPSK 50_0	133322/683	1:1	0.021	0.009	0.16	21.68	22.00	1.076	0.023	0.010	22.1
Right cheek	20	QPSK 50_0	133322/683	1:1	0.024	0.011	0.16	21.68	22.00	1.076	0.026	0.012	22.1
Right tilted	20	QPSK 50_0	133322/683	1:1	0.045	0.020	0.07	21.68	22.00	1.076	0.048	0.022	22.1
				Body	worn Te	st data(	Separate	e 15mm 1RB)					
Front side	20	QPSK 1_0	133322/683	1:1	0.017	0.008	0.11	22.67	23.00	1.079	0.018	0.009	22.1
Back side	20	QPSK 1_0	133322/683	1:1	0.062	0.030	-0.07	22.67	23.00	1.079	0.067	0.032	22.1
				Body w	orn Test	: data(Se	eparate <sup>•</sup>	15mm 50%RB	)				
Front side	20	QPSK 50_0	133322/683	1:1	0.008	0.004	0.07	21.68	22.00	1.076	0.009	0.004	22.1
Back side	20	QPSK 50_0	133322/683	1:1	0.054	0.026	0.16	21.68	22.00	1.076	0.058	0.028	22.1
				Hots	pot Test	data(Se	eparate 1	10mm 1RB)					
Front side	20	QPSK 1_0	133322/683	1:1	0.034	0.016	0.05	22.67	23.00	1.079	0.037	0.017	22.1
Back side	20	QPSK 1_0	133322/683	1:1	0.084	0.040	-0.13	22.67	23.00	1.079	0.091	0.043	22.1
Left side	20	QPSK 1_0	133322/683	1:1	0.018	0.008	0.11	22.67	23.00	1.079	0.019	0.009	22.1
Right side	20	QPSK 1_0	133322/683	1:1	0.003	0.002	0.04	22.67	23.00	1.079	0.003	0.002	22.1
Top side	20	QPSK 1_0	133322/683	1:1	0.061	0.029	0.17	22.67	23.00	1.079	0.066	0.031	22.1
				Hotspo	ot Test d	lata(Sep	arate 10	mm 50%RB)					
Front side	20	QPSK 50_0	133322/683	1:1	0.020	0.010	-0.07	21.68	22.00	1.076	0.022	0.011	22.1
Back side	20	QPSK 50_0	133322/683	1:1	0.069	0.033	0.12	21.68	22.00	1.076	0.074	0.036	22.1
Left side	20	QPSK 50_0	133322/683	1:1	0.009	0.004	0.17	21.68	22.00	1.076	0.010	0.004	22.1
Right side	20	QPSK 50_0	133322/683	1:1	0.002	0.001	-0.12	21.68	22.00	1.076	0.002	0.001	22.1
Top side	20	QPSK 50_0	133322/683	1:1	0.055	0.026	0.03	21.68	22.00	1.076	0.059	0.028	22.1

Table 26: SAR of LTE Band 71 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 90 of 153

### 8 2 18 SAR Result of 5G NR n2

Front side   SW.   Modulation   Test ch./Freq   Cycle   Cycl						SA N	2 SAR 1	est Re	cord					
Test position   BW.   Modulation   Test ch./Freq.   Cycle						Ar	nt2 Test	Recor	d					
Left cheek   20	Test position	BW.	Modulation	Test ch./Freq.		(W/kg)	(W/kg)	drift	Conducted			SAR 1-g	SAR 10-g	Liquid Temp.(℃)
Left tilted   20						Hea	ad Test	data(1R	lB)					
Right cheek   20	Left cheek	20	QPSK 1_1	376000/1880	1:1	0.426	0.230	0.00	18.39	19.50	1.291	0.550	0.297	22.3
Right tilted   20	Left tilted	20	QPSK 1_1	376000/1880	1:1	0.194	0.105	0.04	18.39	19.50	1.291	0.250	0.136	22.3
Head Test data(50%RB)  Left cheek	Right cheek	20	QPSK 1_1	376000/1880	1:1	0.191	0.103	0.10	18.39	19.50	1.291	0.247	0.133	22.3
Left cheek	Right tilted	20	QPSK 1_1	376000/1880	1:1	0.154	0.083	-0.06	18.39	19.50	1.291	0.199	0.107	22.3
Left tilted   20						Head	Test da	ata(50%	RB)					
Right cheek   20	Left cheek	20	QPSK 50_28	376000/1880	1:1	0.436	0.235	-0.01	18.24	19.50	1.337	0.583	0.314	22.3
Right tilted   20   QPSK 50_28   376000/1880   1:1   0.167   0.090   0.04   18.24   19.50   1.337   0.223   0.120   22.3	Left tilted	20	QPSK 50_28	376000/1880	1:1	0.211	0.114	0.07	18.24	19.50	1.337	0.282	0.152	22.3
Head Test data(TRB) For ENDC	Right cheek	20	QPSK 50_28	376000/1880	1:1	0.205	0.110	0.10	18.24	19.50	1.337	0.274	0.147	22.3
Left cheek   20	Right tilted	20	QPSK 50_28	376000/1880						19.50	1.337	0.223	0.120	22.3
Left tilted   20		•			Н		<del>- `</del>	· ·	r ENDC		ı			1
Right cheek   20   QPSK 1_1   376000/1880   1:1   0.191   0.103   -0.19   18.39   17.50   0.815   0.156   0.084   22.3	Left cheek	20	_	376000/1880	1:1					17.50				
Right tilted   20   QPSK 1_1   376000/1880   1:1   0.154   0.083   -0.06   18.39   17.50   0.815   0.125   0.068   22.3	-			376000/1880	1:1	0.194	0.105	0.11	18.39	17.50	0.815	0.158	0.086	
Head Test data(50%RB)   Left cheek   20   QPSK 50_28   376000/1880   1:1   0.436   0.235   -0.01   18.24   17.50   0.843   0.368   0.198   22.3     Left tilted   20   QPSK 50_28   376000/1880   1:1   0.211   0.114   0.01   18.24   17.50   0.843   0.178   0.096   22.3     Right cheek   20   QPSK 50_28   376000/1880   1:1   0.205   0.110   0.04   18.24   17.50   0.843   0.173   0.093   22.3     Right tilted   20   QPSK 50_28   376000/1880   1:1   0.167   0.090   0.02   18.24   17.50   0.843   0.141   0.076   22.3     Body worn Test data(Separate 15mm 1RB)   Front side   20   QPSK 1_1   376000/1880   1:1   0.193   0.110   0.11   22.36   23.50   1.300   0.251   0.143   22.3     Back side   20   QPSK 1_1   376000/1880   1:1   0.310   0.177   0.16   22.36   23.50   1.300   0.403   0.230   22.3     Body worn Test data(Separate 15mm 50%RB)   Front side   20   QPSK 50_28   376000/1880   1:1   0.216   0.123   -0.18   22.33   23.50   1.309   0.283   0.161   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.329   0.188   0.01   22.33   23.50   1.309   0.431   0.246   22.3     Back side   20   QPSK 1_1   376000/1880   1:1   0.193   0.110   0.16   22.36   22.50   1.033   0.199   0.114   22.3     Back side   20   QPSK 1_1   376000/1880   1:1   0.310   0.177   0.02   22.36   22.50   1.033   0.320   0.183   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.310   0.177   0.02   22.36   22.50   1.033   0.320   0.183   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.216   0.123   -0.14   22.33   22.50   1.040   0.225   0.128   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.216   0.123   -0.14   22.33   22.50   1.040   0.342   0.196   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.216   0.123   -0.14   22.33   22.50   1.040   0.342   0.196   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.329   0.188   0.01   22.33   22.50   1.040   0.342   0.196   22.3     Back side   20   QPSK 50_28   376000/1880   1:1   0.329   0.188   0.01   22.33   22.50   1.040   0.					1:1								0.084	
Left cheek         20         QPSK 50_28         376000/1880         1:1         0.436         0.235         -0.01         18.24         17.50         0.843         0.368         0.198         22.3           Left tilted         20         QPSK 50_28         376000/1880         1:1         0.211         0.114         0.01         18.24         17.50         0.843         0.178         0.096         22.3           Right cheek         20         QPSK 50_28         376000/1880         1:1         0.167         0.090         0.02         18.24         17.50         0.843         0.141         0.093         22.3           Body worn Test data(Separate 15mm 1RB)           Front side         20         QPSK 1_1         376000/1880         1:1         0.193         0.110         0.11         22.36         23.50         1.300         0.251         0.143         22.3           Back side         20         QPSK 1_1         376000/1880         1:1         0.310         0.177         0.16         22.36         23.50         1.300         0.403         0.230         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.216         0.12	Right tilted	20	QPSK 1_1	376000/1880	1:1		l .			17.50	0.815	0.125	0.068	22.3
Left tilted         20         QPSK 50_28         376000/1880         1:1         0.211         0.114         0.01         18.24         17.50         0.843         0.178         0.096         22.3           Right cheek         20         QPSK 50_28         376000/1880         1:1         0.205         0.110         0.04         18.24         17.50         0.843         0.173         0.093         22.3           Body worn Test data(Separate 15mm 1RB)           Front side         20         QPSK 1_1         376000/1880         1:1         0.193         0.110         0.11         22.36         23.50         1.300         0.251         0.143         22.3           Back side         20         QPSK 1_1         376000/1880         1:1         0.310         0.177         0.16         22.36         23.50         1.300         0.251         0.143         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.18         22.33         23.50         1.309         0.283         0.161         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.329				T				· ` ·						
Right cheek			_											
Right tilted   20   QPSK 50_28   376000/1880   1:1   0.167   0.090   0.02   18.24   17.50   0.843   0.141   0.076   22.3														
Body worn Test data(Separate 15mm 1RB)														
Front side	Right tilted	20	QPSK 50_28							17.50	0.843	0.141	0.076	22.3
Back side 20 QPSK 1_1 376000/1880 1:1 0.310 0.177 0.16 22.36 23.50 1.300 0.403 0.230 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.216 0.123 -0.18 22.33 23.50 1.309 0.283 0.161 22.3  Back side 20 QPSK 50_28 376000/1880 1:1 0.329 0.188 0.01 22.33 23.50 1.309 0.431 0.246 22.3  Body worn Test data(Separate 15mm 1RB) For ENDC  Front side 20 QPSK 1_1 376000/1880 1:1 0.193 0.110 0.16 22.36 22.50 1.033 0.199 0.114 22.3  Back side 20 QPSK 1_1 376000/1880 1:1 0.310 0.177 0.02 22.36 22.50 1.033 0.320 0.183 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.216 0.123 -0.14 22.33 22.50 1.040 0.225 0.128 22.3  Back side 20 QPSK 50_28 376000/1880 1:1 0.329 0.188 0.01 22.33 22.50 1.040 0.342 0.196 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_1 376000/1880 1:1 0.329 0.188 0.01 22.33 22.50 1.040 0.342 0.196 22.3  Hotspot Test data(Separate 10mm 1RB)			00014.4.4	ı			· ·	•	· · · · · ·	00.50	4 000	0.054	0.440	00.0
Body worn Test data(Separate 15mm 50%RB)  Front side			_											
Front side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.18         22.33         23.50         1.309         0.283         0.161         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.329         0.188         0.01         22.33         23.50         1.309 <b>0.431</b> 0.246         22.3           Body worn Test data(Separate 15mm 1RB) For ENDC           Front side         20         QPSK 1_1         376000/1880         1:1         0.193         0.110         0.16         22.36         22.50         1.033         0.199         0.114         22.3           Body worn Test data(Separate 15mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.14         22.33         22.50         1.040         0.225         0.128         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.14         22.33         22.50         1.040         0.342         0.196         22.3           Hotspot Test data(Separate	Back side	20	QPSK 1_1	l .			l				1.300	0.403	0.230	22.3
Back side 20 QPSK 50_28 376000/1880 1:1 0.329 0.188 0.01 22.33 23.50 1.309 <b>0.431</b> 0.246 22.3  Body worn Test data(Separate 15mm 1RB) For ENDC  Front side 20 QPSK 1_1 376000/1880 1:1 0.193 0.110 0.16 22.36 22.50 1.033 0.199 0.114 22.3  Back side 20 QPSK 1_1 376000/1880 1:1 0.310 0.177 0.02 22.36 22.50 1.033 0.320 0.183 22.3  Body worn Test data(Separate 15mm 50%RB)  Front side 20 QPSK 50_28 376000/1880 1:1 0.216 0.123 -0.14 22.33 22.50 1.040 0.225 0.128 22.3  Back side 20 QPSK 50_28 376000/1880 1:1 0.329 0.188 0.01 22.33 22.50 1.040 0.342 0.196 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_1 376000/1880 1:1 0.275 0.149 0.02 21.29 22.50 1.321 0.363 0.197 22.3	Front side	20	ODCK 50, 20				· ·				1 200	0.202	0.161	22.2
Body worn Test data(Separate 15mm 1RB) For ENDC  Front side														
Front side         20         QPSK 1_1         376000/1880         1:1         0.193         0.110         0.16         22.36         22.50         1.033         0.199         0.114         22.3           Back side         20         QPSK 1_1         376000/1880         1:1         0.310         0.177         0.02         22.36         22.50         1.033         0.320         0.183         22.3           Body worn Test data(Separate 15mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.14         22.33         22.50         1.040         0.225         0.128         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.329         0.188         0.01         22.33         22.50         1.040         0.342         0.196         22.3           Hotspot Test data(Separate 10mm 1RB)           Front side         20         QPSK 1_1         376000/1880         1:1         0.275         0.149         0.02         21.29         22.50         1.321         0.363         0.197         22.3	Dack side	20	Q1 31( 30_20	l .			<u> </u>				1.505	0.401	0.240	22.5
Back side         20         QPSK 1_1         376000/1880         1:1         0.310         0.177         0.02         22.36         22.50         1.033         0.320         0.183         22.3           Body worn Test data(Separate 15mm 50%RB)           Front side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.14         22.33         22.50         1.040         0.225         0.128         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.329         0.188         0.01         22.33         22.50         1.040         0.342         0.196         22.3           Hotspot Test data(Separate 10mm 1RB)           Front side         20         QPSK 1_1         376000/1880         1:1         0.275         0.149         0.02         21.29         22.50         1.321         0.363         0.197         22.3	Front side	20	OPSK 1 1	l					I		1 033	Λ 100	0 114	22.3
Body worn Test data(Separate 15mm 50%RB)           Front side         20 QPSK 50_28 376000/1880         1:1 0.216 0.123 -0.14 22.33 22.50 1.040 0.225 0.128 22.3           Back side         20 QPSK 50_28 376000/1880 1:1 0.329 0.188 0.01 22.33 22.50 1.040 0.342 0.196 22.3           Hotspot Test data(Separate 10mm 1RB)           Front side         20 QPSK 1_1 376000/1880 1:1 0.275 0.149 0.02 21.29 22.50 1.321 0.363 0.197 22.3														
Front side         20         QPSK 50_28         376000/1880         1:1         0.216         0.123         -0.14         22.33         22.50         1.040         0.225         0.128         22.3           Back side         20         QPSK 50_28         376000/1880         1:1         0.329         0.188         0.01         22.33         22.50         1.040         0.342         0.196         22.3           Hotspot Test data(Separate 10mm 1RB)           Front side         20         QPSK 1_1         376000/1880         1:1         0.275         0.149         0.02         21.29         22.50         1.321         0.363         0.197         22.3	Dack oldo		41 511				l .				1.555	0.020	0.700	
Back side 20 QPSK 50_28 376000/1880 1:1 0.329 0.188 0.01 22.33 22.50 1.040 0.342 0.196 22.3  Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_1 376000/1880 1:1 0.275 0.149 0.02 21.29 22.50 1.321 0.363 0.197 22.3	Front side	20	QPSK 50 28	ı			·	•		,	1.040	0.225	0.128	22.3
Hotspot Test data(Separate 10mm 1RB)  Front side 20 QPSK 1_1 376000/1880 1:1 0.275 0.149 0.02 21.29 22.50 1.321 0.363 0.197 22.3	-		_											
Front side 20 QPSK 1_1 376000/1880 1:1 0.275 0.149 0.02 21.29 22.50 1.321 0.363 0.197 22.3											1			
	Front side	20	QPSK 1 1	376000/1880				•	,	22.50	1.321	0.363	0.197	22.3
	Back side	20	QPSK 1_1	376000/1880	1:1	0.485		0.10	21.29	22.50	1.321	0.641	0.348	22.3
Right side 20 QPSK 1_1 376000/1880 1:1 0.289 0.156 0.19 21.29 22.50 1.321 0.382 0.206 22.3	Right side	20	_	376000/1880	1:1			0.19				0.382	0.206	22.3

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Report No.: SUCR250100002701

Rev.: 01

Page: 91 of 153

		1			1	1							
Top side	20	QPSK 1_1	376000/1880	1:1	0.265	0.144	-0.12	21.29	22.50	1.321	0.350	0.190	22.3
			ŀ	Hotspo	t Test da	ata (Sep	arate 1	0mm 50%RB)					
Front side	20	QPSK 50_28	376000/1880	1:1	0.295	0.160	0.00	21.28	22.50	1.324	0.391	0.212	22.3
Back side	20	QPSK 50_28	376000/1880	1:1	0.526	0.285	-0.07	21.28	22.50	1.324	0.697	0.377	22.3
Right side	20	QPSK 50_28	376000/1880	1:1	0.338	0.183	-0.07	21.28	22.50	1.324	0.448	0.242	22.3
Top side	20	QPSK 50_28	376000/1880	1:1	0.300	0.163	0.14	21.28	22.50	1.324	0.397	0.216	22.3
	Hotspot Test data(Separate 10mm 1RB) For ENDC												
Front side	20	QPSK 1_1	376000/1880	1:1	0.275	0.149	-0.04	21.29	21.50	1.050	0.289	0.156	22.3
Back side	20	QPSK 1_1	376000/1880	1:1	0.485	0.263	0.10	21.29	21.50	1.050	0.509	0.276	22.3
Right side	20	QPSK 1_1	376000/1880	1:1	0.289	0.156	0.14	21.29	21.50	1.050	0.303	0.164	22.3
Top side	20	QPSK 1_1	376000/1880	1:1	0.265	0.144	0.09	21.29	21.50	1.050	0.278	0.151	22.3
			ŀ	Hotspo	t Test da	ata (Sep	arate 1	0mm 50%RB)					
Front side	20	QPSK 50_28	376000/1880	1:1	0.295	0.160	-0.07	21.28	21.50	1.052	0.310	0.168	22.3
Back side	20	QPSK 50_28	376000/1880	1:1	0.526	0.285	-0.07	21.28	21.50	1.052	0.553	0.300	22.3
Right side	20	QPSK 50_28	376000/1880	1:1	0.338	0.183	-0.01	21.28	21.50	1.052	0.356	0.193	22.3
Top side	20	QPSK 50_28	376000/1880	1:1	0.300	0.163	0.03	21.28	21.50	1.052	0.316	0.171	22.3

Table 27: SAR of 5G NR n2 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 92 of 153

### 8.2.19 SAR Result of 5G NR n5

6.2.19 SAK			11111110	SA	4 N5 SA	AR Test	Record	1					
				- 0,		Test Re		4					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR		Power drift (dB)	Conducted Power(dBm)		Scaled	Scaled SAR 1-g (W/kg)	SAR 10-g	Liquid Temp.(℃)
					Head T	est data	(1RB)						
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.832	0.515	0.15	22.19	23.00	1.205	1.003	0.621	22.5
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.801	0.475	-0.16	22.19	23.00	1.205	0.965	0.572	22.5
Right cheek	20	QPSK 1_1	167300/836.5	1:1	1.060	0.587	0.18	22.19	23.00	1.205	1.277	0.707	22.5
Right tilted	20	QPSK 1_1	167300/836.5	1:1	1.010	0.581	0.19	22.19	23.00	1.205	1.217	0.700	22.5
				Н	ead Tes	st data(5	50%RB)						
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.961	0.531	-0.12	22.09	23.00	1.233	1.185	0.655	22.5
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.875	0.483	0.09	22.09	23.00	1.233	1.079	0.596	22.5
Right cheek	20	QPSK 50_28	167300/836.5	1:1	1.090	0.602	0.09	22.09	23.00	1.233	1.344	0.742	22.5
Right cheek-repeated	20	QPSK 50_28	167300/836.5	1:1	1.070	0.601	-0.01	22.09	23.00	1.233	1.319	0.741	22.5
Right tilted	20	QPSK 50_28	167300/836.5	1:1	1.050	0.598	0.14	22.09	23.00	1.233	1.295	0.737	22.5
				Head	Test da	ita(1RB	) For EN	NDC					
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.832	0.515	0.09	22.19	20.50	0.678	0.564	0.349	22.5
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.801	0.475	-0.05	22.19	20.50	0.678	0.543	0.322	22.5
Right cheek	20	QPSK 1_1	167300/836.5	1:1	1.060	0.587	-0.11	22.19	20.50	0.678	0.718	0.398	22.5
Right tilted	20	QPSK 1_1	167300/836.5	1:1	1.010	0.581	-0.16	22.19	20.50	0.678	0.684	0.394	22.5
				Н	ead Tes	st data(5	50%RB)						
Left cheek	20	QPSK 50_28	167300/836.5	1:1	0.961	0.531	-0.19	22.09	20.50	0.693	0.666	0.368	22.5
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.875	0.483	0.02	22.09	20.50	0.693	0.607	0.335	22.5
Right cheek	20	QPSK 50_28	167300/836.5	1:1	1.090	0.602	0.09	22.09	20.50	0.693	0.756	0.417	22.5
Right tilted	20	QPSK 50_28	167300/836.5	1:1	1.050	0.598	-0.16	22.09	20.50	0.693	0.728	0.415	22.5
			Boo	ly worn	Test da	ata(Sepa	arate 15	imm 1RB)					
Front side	20	QPSK 1_1	167300/836.5	1:1	0.158	0.093	-0.18	23.59	24.50	1.233	0.195	0.115	22.5
Back side	20	QPSK 1_1	167300/836.5	1:1	0.263	0.155	-0.18	23.59	24.50	1.233	0.324	0.191	22.5
			Body	worn T	est data	a(Separ	ate 15m	nm 50%RB)					
Front side	20	QPSK 50_28	167300/836.5	1:1	0.170	0.101	0.16	23.54	24.50	1.247	0.212	0.126	22.5
Back side	20	QPSK 50_28	167300/836.5	1:1	0.279	0.165	0.01	23.54	24.50	1.247	0.348	0.206	22.5
			Ho					ım 1RB)					
Front side	20	QPSK 1_1	167300/836.5	1:1	0.295	0.168	0.03	23.59	24.50	1.233	0.364	0.207	22.5
Back side	20	QPSK 1_1	167300/836.5	1:1	0.550	0.313	0.03	23.59	24.50	1.233	0.678	0.386	22.5
Left side	20	QPSK 1_1	167300/836.5	1:1	0.175	0.099	0.16	23.59	24.50	1.233	0.216	0.122	22.5
Right side	20	QPSK 1_1	167300/836.5	1:1	0.074	0.042	0.19	23.59	24.50	1.233	0.091	0.052	22.5
Top side	20	QPSK 1_1	167300/836.5	1:1	0.399	0.227	-0.11	23.59	24.50	1.233	0.492	0.280	22.5
	_		Hots	pot Tes	st data (	Separa	te 10mn	n 50%RB)					
Front side	20	QPSK 50_28	167300/836.5	1:1	0.319	0.181	-0.03	23.54	24.50	1.247	0.398	0.226	22.5
Back side	20	QPSK 50_28	167300/836.5	1:1	0.573	0.326	-0.03	23.54	24.50	1.247	0.715	0.407	22.5

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Report No.: SUCR250100002701

Rev.: 01

Page: 93 of 153

Left side	20	QPSK 50_28	167300/836.5	1:1	0.198	0.113	-0.07	23.54	24.50	1.247	0.247	0.141	22.5
Right side	20	QPSK 50_28	167300/836.5	1:1	0.094	0.053	0.05	23.54	24.50	1.247	0.117	0.066	22.5
Top side	20	QPSK 50_28	167300/836.5	1:1	0.422	0.240	-0.10	23.54	24.50	1.247	0.526	0.299	22.5

Table 28: SAR of 5G NR n5 for Head, Body and Hotspot.

Test Position	Channel/ Frequency	Measured	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	SAR (1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	167300/836.5	1.09	1.07	1.018691589	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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Report No.: SUCR250100002701

Rev.: 01

Page: 94 of 153

### 8.2.20 SAR Result of 5G NR n7

		Result OI			SA N7	' SAR T	est Red	cord					
						t4 Test							
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (M/kg)		Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	SAR 10-g	Liquid Temp.(℃)
					Hea	d Test o	data(1R	В)					
Left cheek	50	QPSK 1_1	507000/2535	1:1	0.114	0.050	-0.11	16.48	17.50	1.265	0.144	0.063	22.4
Left tilted	50	QPSK 1_1	507000/2535	1:1	0.047	0.021	-0.01	16.48	17.50	1.265	0.059	0.027	22.4
Right cheek	50	QPSK 1_1	507000/2535	1:1	0.265	0.118	0.14	16.48	17.50	1.265	0.335	0.149	22.4
Right tilted	50	QPSK 1_1	507000/2535	1:1	0.070	0.031	0.08	16.48	17.50	1.265	0.089	0.039	22.4
					Head	Test da	ta(50%	RB)					
Left cheek	50	QPSK 135_68	507000/2535	1:1	0.122	0.054	-0.01	16.22	17.50	1.343	0.164	0.073	22.4
Left tilted	50	QPSK 135_68	507000/2535	1:1	0.052	0.023	-0.13	16.22	17.50	1.343	0.070	0.031	22.4
Right cheek	50	QPSK 135_68	507000/2535	1:1	0.284	0.126	-0.02	16.22	17.50	1.343	0.381	0.169	22.4
Right tilted	50	QPSK 135_68	507000/2535	1:1	0.073	0.032	-0.09	16.22	17.50	1.343	0.098	0.043	22.4
				H	ead Tes	t data(1	RB) Fo	r ENDC					
Left cheek	50	QPSK 1_1	507000/2535	1:1	0.114	0.050	-0.06	16.48	16.00	0.895	0.102	0.045	22.4
Left tilted	50	QPSK 1_1	507000/2535	1:1	0.047	0.021	-0.10	16.48	16.00	0.895	0.042	0.019	22.4
Right cheek	50	QPSK 1_1	507000/2535	1:1	0.265	0.118	0.09	16.48	16.00	0.895	0.237	0.106	22.4
Right tilted	50	QPSK 1_1	507000/2535	1:1	0.070	0.031	0.19	16.48	16.00	0.895	0.063	0.028	22.4
					Head	Test da	ta(50%	RB)					
Left cheek	50	QPSK 135_68	507000/2535	1:1	0.122	0.054	-0.06	16.22	16.00	0.951	0.116	0.051	22.4
Left tilted	50	QPSK 135_68	507000/2535	1:1	0.052	0.023	0.00	16.22	16.00	0.951	0.049	0.022	22.4
Right cheek	50	QPSK 135_68	507000/2535	1:1	0.284	0.126	-0.02	16.22	16.00	0.951	0.270	0.120	22.4
Right tilted	50	QPSK 135_68	507000/2535	1:1	0.073	0.032	-0.02	16.22	16.00	0.951	0.069	0.030	22.4
				Body w	orn Tes	t data(S	Separate	e 15mm 1RB)					
Front side	50	QPSK 1_1	507000/2535	1:1	0.117	0.057	-0.13	18.32	19.50	1.312	0.154	0.075	22.4
Back side	50	QPSK 1_1	507000/2535	1:1	0.276	0.135	0.10	18.32	19.50	1.312	0.362	0.177	22.4
			В	ody wo	rn Test	data(Se	parate	15mm 50%RB	)			-	
Front side	50	QPSK 135_68	507000/2535	1:1	0.158	0.077	0.01	18.26	19.50	1.330	0.210	0.102	22.4
Back side	50	QPSK 135_68	507000/2535	1:1	0.306	0.150	-0.06	18.26	19.50	1.330	0.407	0.200	22.4
			Body	worn T	est data	(Separ	ate 15m	m 1RB) For E	NDC				
Front side	50	QPSK 1_1	507000/2535	1:1	0.117	0.057	-0.15	18.32	19.00	1.169	0.137	0.067	22.4
Back side	50	QPSK 1_1	507000/2535	1:1	0.276	0.135	0.16	18.32	19.00	1.169	0.323	0.158	22.4
			В	ody wo	rn Test	data(Se	parate	15mm 50%RB	)				
Front side	50	QPSK 135_68	507000/2535	1:1	0.158	0.077	-0.15	18.26	19.00	1.186	0.187	0.091	22.4
Back side	50	QPSK 135_68	507000/2535	1:1	0.306	0.150	-0.06	18.26	19.00	1.186	0.363	0.178	22.4
				Hotsp	ot Test	data(Se	parate	10mm 1RB)					
Front side	50	QPSK 1_1	507000/2535	1:1	0.143	0.066	0.17	17.33	18.50	1.309	0.187	0.086	22.4
Back side	50	QPSK 1_1	507000/2535	1:1	0.375	0.174	0.13	17.33	18.50	1.309	0.491	0.228	22.4
Left side	50	QPSK 1_1	507000/2535	1:1	0.188	0.087	-0.04	17.33	18.50	1.309	0.246	0.114	22.4

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Report No.: SUCR250100002701

Rev.: 01

Page: 95 of 153

Top side	50	QPSK 1_1	507000/2535	1:1	0.052	0.024	0.02	17.33	18.50	1.309	0.068	0.031	22.4
			F	lotspot	Test da	ıta (Sep	arate 10	mm 50%RB)					
Front side	50	QPSK 135_68	507000/2535	1:1	0.158	0.073	0.05	17.24	18.50	1.337	0.211	0.098	22.4
Back side	50	QPSK 135_68	507000/2535	1:1	0.384	0.178	0.02	17.24	18.50	1.337	0.513	0.238	22.4
Left side	50	QPSK 135_68	507000/2535	1:1	0.217	0.101	-0.07	17.24	18.50	1.337	0.290	0.135	22.4
Top side	50	QPSK 135_68	507000/2535	1:1	0.080	0.037	-0.05	17.24	18.50	1.337	0.107	0.049	22.4
			Hots	pot Te	st data(	Separate	e 10mm	1RB) For EN	OC .				
Front side	50	QPSK 1_1	507000/2535	1:1	0.143	0.066	-0.13	17.33	17.00	0.927	0.133	0.061	22.4
Back side	50	QPSK 1_1	507000/2535	1:1	0.375	0.174	-0.05	17.33	17.00	0.927	0.348	0.161	22.4
Left side	50	QPSK 1_1	507000/2535	1:1	0.188	0.087	-0.15	17.33	17.00	0.927	0.174	0.081	22.4
Top side	50	QPSK 1_1	507000/2535	1:1	0.052	0.024	0.10	17.33	17.00	0.927	0.048	0.022	22.4
			F	lotspot	Test da	ita (Sep	arate 10	mm 50%RB)					
Front side	50	QPSK 135_68	507000/2535	1:1	0.158	0.073	-0.15	17.24	17.00	0.946	0.150	0.069	22.4
Back side	50	QPSK 135_68	507000/2535	1:1	0.384	0.178	0.02	17.24	17.00	0.946	0.363	0.168	22.4
Left side	50	QPSK 135_68	507000/2535	1:1	0.217	0.101	-0.02	17.24	17.00	0.946	0.205	0.096	22.4
Top side	50	QPSK 135_68	507000/2535	1:1	0.080	0.037	0.01	17.24	17.00	0.946	0.076	0.035	22.4
						_				•			

Table 29: SAR of 5G NR n7 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 96 of 153

### 8.2.21 SAR Result of 5G NR n41

				,	SA N41	SAR To	est Rec	ord					
					Ant	4 Test F	Record						
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	SAR 10-g	Liquid Temp.(℃)
					Head	Test da	ata(1RB	5)					
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.118	0.053	-0.14	15.97	17.00	1.268	0.150	0.067	22.4
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.049	0.022	0.02	15.97	17.00	1.268	0.062	0.028	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.275	0.124	0.06	15.97	17.00	1.268	0.349	0.157	22.4
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.091	0.041	-0.13	15.97	17.00	1.268	0.115	0.052	22.4
					Head 1	Test data	a(50%R	RB)					
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.137	0.062	0.08	15.92	17.00	1.282	0.176	0.080	22.4
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.068	0.031	-0.16	15.92	17.00	1.282	0.087	0.040	22.4
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.288	0.130	-0.05	15.92	17.00	1.282	0.369	0.167	22.4
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.105	0.047	0.03	15.92	17.00	1.282	0.135	0.060	22.4
			В	ody wc	rn Test	data(Se	eparate	15mm 1RB)					
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.131	0.064	-0.03	19.49	20.50	1.262	0.165	0.081	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.240	0.118	-0.02	19.49	20.50	1.262	0.303	0.149	22.4
			Во	dy worr	n Test d	ata(Sep	arate 1	5mm 50%RB)					
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.140	0.069	0.06	19.38	20.50	1.294	0.181	0.089	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.263	0.129	-0.08	19.38	20.50	1.294	0.340	0.167	22.4
				Hotspo	t Test d	ata(Sep	arate 1	0mm 1RB)					
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.138	0.061	0.10	17.43	18.50	1.279	0.177	0.078	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.326	0.147	0.18	17.43	18.50	1.279	0.417	0.188	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.151	0.068	-0.04	17.43	18.50	1.279	0.193	0.087	22.4
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.033	0.015	-0.05	17.43	18.50	1.279	0.042	0.019	22.4
			Н	otspot 7	Test dat	a (Sepa	rate 10	mm 50%RB)					
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.149	0.067	-0.05	17.40	18.50	1.288	0.192	0.086	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.359	0.162	0.06	17.40	18.50	1.288	0.462	0.209	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.180	0.081	0.17	17.40	18.50	1.288	0.232	0.104	22.4
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.066	0.030	-0.09	17.40	18.50	1.288	0.085	0.039	22.4
				A	nt1 Tes	t Recor	d For E	NDC					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled		SAR 10-g	Liquid Temp.(°C)
		ı			Head	Test da	ata(1RB	5)		1	1		
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.170	0.085	0.12	23.64	24.00	1.086	0.185	0.092	22.4
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.132	0.066	-0.14	23.64	24.00	1.086	0.143	0.072	22.4
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.231	0.115	0.03	23.64	24.00	1.086	0.251	0.125	22.4
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.199	0.099	-0.02	23.64	24.00	1.086	0.216	0.108	22.4
					Head 1	est dat	a(50%R	RB)					
Left cheek	100	QPSK 135 69	518598/2592.99	1:1	0.190	0.095	-0.08	23.53	24.00	1.114	0.212	0.106	22.4

Left cheek 100 QPSK 135\_69 518598/2592.99 1:1 0.190 0.095 -0.08 23.53 24.00 1.114 0.212 0.106 22.4

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Report No.: SUCR250100002701

Rev.: 01

Page: 97 of 153

Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.151	0.075	0.04	23.53	24.00	1.114	0.168	0.084	22.4
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.243	0.121	-0.19	23.53	24.00	1.114	0.271	0.135	22.4
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.223	0.111	0.05	23.53	24.00	1.114	0.248	0.124	22.4
			В	ody wo	rn Test	data(Se	eparate	15mm 1RB)					
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.048	0.026	0.10	20.65	21.00	1.084	0.052	0.028	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.066	0.036	0.08	20.65	21.00	1.084	0.072	0.039	22.4
			Вос	dy wori	n Test d	ata(Sep	arate 1	5mm 50%RB)					
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.053	0.029	-0.11	20.57	21.00	1.104	0.059	0.032	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.075	0.041	0.05	20.57	21.00	1.104	0.083	0.045	22.4
			ŀ	Hotspo	t Test d	ata(Sep	arate 10	Omm 1RB)					
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.205	0.099	-0.03	18.56	19.00	1.107	0.227	0.110	22.4
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.296	0.143	-0.09	18.56	19.00	1.107	0.328	0.158	22.4
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.041	0.020	0.09	18.56	19.00	1.107	0.045	0.022	22.4
Right side	100	QPSK 1_1	518598/2592.99	1:1	0.072	0.035	-0.01	18.56	19.00	1.107	0.080	0.039	22.4
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.580	0.281	-0.08	18.56	19.00	1.107	0.642	0.311	22.4
			Ho	tspot 7	Test dat	a (Sepa	rate 10r	mm 50%RB)					
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.218	0.105	-0.02	18.46	19.00	1.132	0.247	0.119	22.4
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.301	0.146	-0.05	18.46	19.00	1.132	0.341	0.165	22.4
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.056	0.027	0.07	18.46	19.00	1.132	0.063	0.031	22.4
Right side	100	QPSK 135_69	518598/2592.99	1:1	0.074	0.036	-0.02	18.46	19.00	1.132	0.084	0.041	22.4
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.597	0.289	-0.07	18.46	19.00	1.132	0.676	0.327	22.4

Table 30: SAR of 5G NR n41 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 98 of 153

## 8.2.22 SAR Result of 5G NR n48

					SA N48	SAR To	est Rec	ord					
					Ant	2 Test F	Record						
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled	Scaled SAR 1-g (W/kg)	SAR 10-g	Liquid Temp.(℃)
					Head	Test da	ata(1RB	5)					
Left cheek	100	QPSK 1_1	641666/3624.99	1:1	0.424	0.172	-0.16	17.58	18.00	1.102	0.467	0.189	22.3
Left tilted	100	QPSK 1_1	641666/3624.99	1:1	0.398	0.161	-0.14	17.58	18.00	1.102	0.438	0.177	22.3
Right cheek	100	QPSK 1_1	641666/3624.99	1:1	0.219	0.089	-0.07	17.58	18.00	1.102	0.241	0.098	22.3
Right tilted	100	QPSK 1_1	641666/3624.99	1:1	0.205	0.083	-0.02	17.58	18.00	1.102	0.226	0.091	22.3
					Head T	est data	a(50%R	RB)					
Left cheek	100	QPSK 135_69	641666/3624.99	1:1	0.439	0.178	-0.01	17.52	18.00	1.117	0.490	0.199	22.3
Left tilted	100	QPSK 135_69	641666/3624.99	1:1	0.430	0.174	-0.11	17.52	18.00	1.117	0.480	0.194	22.3
Right cheek	100	QPSK 135_69	641666/3624.99	1:1	0.236	0.096	-0.05	17.52	18.00	1.117	0.264	0.107	22.3
Right tilted	100	QPSK 135_69	641666/3624.99	1:1	0.215	0.087	-0.10	17.52	18.00	1.117	0.240	0.097	22.3
			В	ody wo	rn Test	data(Se	eparate	15mm 1RB)					
Front side	100	QPSK 1_1	641666/3624.99	1:1	0.092	0.039	0.16	19.59	20.00	1.099	0.101	0.043	22.3
Back side	100	QPSK 1_1	641666/3624.99	1:1	0.376	0.160	0.01	19.59	20.00	1.099	0.413	0.176	22.3
			Во	dy worr	n Test d	ata(Sep	arate 1	5mm 50%RB)					
Front side	100	QPSK 135_69	641666/3624.99	1:1	0.117	0.050	-0.07	19.57	20.00	1.104	0.129	0.055	22.3
Back side	100	QPSK 135_69	641666/3624.99	1:1	0.403	0.172	-0.02	19.57	20.00	1.104	0.445	0.190	22.3
				Hotspo	t Test d	ata(Sep	arate 10	0mm 1RB)					
Front side	100	QPSK 1_1	641666/3624.99	1:1	0.124	0.046	0.04	16.56	17.00	1.107	0.137	0.051	22.3
Back side	100	QPSK 1_1	641666/3624.99	1:1	0.713	0.266	0.06	16.56	17.00	1.107	0.789	0.294	22.3
Right side	100	QPSK 1_1	641666/3624.99	1:1	0.646	0.241	0.03	16.56	17.00	1.107	0.715	0.267	22.3
Top side	100	QPSK 1_1	641666/3624.99	1:1	0.234	0.087	-0.01	16.56	17.00	1.107	0.259	0.096	22.3
			Ho	otspot 7	Test dat	a (Sepa	rate 10r	mm 50%RB)					
Front side	100	QPSK 135_69	641666/3624.99	1:1	0.140	0.052	-0.19	16.49	17.00	1.125	0.157	0.058	22.3
Back side	100	QPSK 135_69	641666/3624.99	1:1	0.727	0.271	0.09	16.49	17.00	1.125	0.818	0.305	22.3
Right side	100	QPSK 135_69	641666/3624.99	1:1	0.668	0.249	0.02	16.49	17.00	1.125	0.751	0.280	22.3
Top side	100	QPSK 135_69	641666/3624.99	1:1	0.261	0.097	0.00	16.49	17.00	1.125	0.294	0.109	22.3
			Ho	otspot 7	Test dat	a (Sepa	rate 10r	mm 50%RB)					
Back side	100	QPSK 270_0	641666/3624.99	1:1	0.658	0.248	0.00	15.46	16.00	1.132	0.745	0.281	22.3

Table 31: SAR of 5G NR n48 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 99 of 153

### 8.2.23 SAR Result of 5G NR n66

					SA N6	6 SAR	Γest Re	cord					
					An	t2 Test	Record	t					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	d Test o	data(1R	B)					
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.553	0.299	0.02	19.86	21.00	1.300	0.719	0.389	22.3
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.238	0.129	0.09	19.86	21.00	1.300	0.309	0.168	22.3
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.290	0.157	-0.01	19.86	21.00	1.300	0.377	0.204	22.3
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.240	0.130	0.03	19.86	21.00	1.300	0.312	0.169	22.3
					Head	Test da	ta(50%	RB)					
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.575	0.311	-0.12	19.85	21.00	1.303	0.749	0.405	22.3
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.280	0.152	-0.13	19.85	21.00	1.303	0.365	0.198	22.3
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.304	0.165	0.07	19.85	21.00	1.303	0.396	0.215	22.3
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.274	0.148	-0.18	19.85	21.00	1.303	0.357	0.193	22.3
				H	ead Tes	t data(1	RB) Fo	r ENDC					
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.553	0.299	-0.03	19.86	18.00	0.652	0.360	0.195	22.3
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.238	0.129	0.09	19.86	18.00	0.652	0.155	0.084	22.3
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.290	0.157	0.01	19.86	18.00	0.652	0.189	0.102	22.3
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.240	0.130	0.03	19.86	18.00	0.652	0.156	0.085	22.3
					Head	Test da	ta(50%	RB)					
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.575	0.311	-0.12	19.85	18.00	0.653	0.376	0.203	22.3
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.280	0.152	-0.19	19.85	18.00	0.653	0.183	0.099	22.3
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.304	0.165	-0.18	19.85	18.00	0.653	0.199	0.108	22.3
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.274	0.148	-0.19	19.85	18.00	0.653	0.179	0.097	22.3
				Body w	orn Tes	t data(S	Separate	e 15mm 1RB)					
Front side	40	QPSK 1_1	349000/1745	1:1	0.122	0.082	0.17	22.96	24.00	1.271	0.155	0.104	22.3
Back side	40	QPSK 1_1	349000/1745	1:1	0.212	0.142	-0.06	22.96	24.00	1.271	0.269	0.180	22.3
			В	ody wo	rn Test	data(Se	parate	15mm 50%RB	)				
Front side	40	QPSK 108_54	349000/1745	1:1	0.138	0.092	0.06	22.85	24.00	1.303	0.180	0.120	22.3
Back side	40	QPSK 108_54	349000/1745	1:1	0.221	0.148	-0.06	22.85	24.00	1.303	0.288	0.193	22.3
			Body	worn T	est data	(Separ	ate 15m	m 1RB) For El	NDC				
Front side	40	QPSK 1_1	349000/1745	1:1	0.122	0.082	0.05	22.96	22.00	0.802	0.098	0.066	22.3
Back side	40	QPSK 1_1	349000/1745	1:1	0.212	0.142	-0.01	22.96	22.00	0.802	0.170	0.114	22.3
			В	ody wo	rn Test	data(Se	parate	15mm 50%RB	)				
Front side	40	QPSK 108_54	349000/1745	1:1	0.138	0.092	-0.08	22.85	22.00	0.822	0.113	0.076	22.3
Back side	40	QPSK 108_54	349000/1745	1:1	0.221	0.148	-0.06	22.85	22.00	0.822	0.182	0.122	22.3
				Hotsp	ot Test	data(Se	parate	10mm 1RB)					
Front side	40	QPSK 1_1	349000/1745	1:1	0.168	0.154	0.11	20.98	22.00	1.265	0.212	0.195	22.3
Back side	40	QPSK 1_1	349000/1745	1:1	0.301	0.162	0.00	20.98	22.00	1.265	0.381	0.205	22.3
Right side	40	QPSK 1_1	349000/1745	1:1	0.222	0.117	-0.14	20.98	22.00	1.265	0.281	0.148	22.3

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Report No.: SUCR250100002701

Rev.: 01

Page: 100 of 153

Top side	40	QPSK 1_1	349000/1745	1:1	0.175	0.092	0.07	20.98	22.00	1.265	0.221	0.116	22.3
		1		lotspot	Test da	ata (Sep	arate 1	0mm 50%RB)	T	T			
Front side	40	QPSK 108_54	349000/1745	1:1	0.183	0.096	0.19	20.82	22.00	1.312	0.240	0.126	22.3
Back side	40	QPSK 108_54	349000/1745	1:1	0.329	0.173	0.04	20.82	22.00	1.312	0.432	0.227	22.3
Right side	40	QPSK 108_54	349000/1745	1:1	0.244	0.128	0.00	20.82	22.00	1.312	0.320	0.168	22.3
Top side	40	QPSK 108_54	349000/1745	1:1	0.190	0.100	0.07	20.82	22.00	1.312	0.249	0.131	22.3
		1	Hots	pot Te	st data(	Separat		1RB) For EN	DC	T			
Front side	40	QPSK 1_1	349000/1745	1:1	0.168	0.154	0.16	20.98	20.00	0.798	0.134	0.123	22.3
Back side	40	QPSK 1_1	349000/1745	1:1	0.301	0.162	-0.10	20.98	20.00	0.798	0.240	0.129	22.3
Right side	40	QPSK 1_1	349000/1745	1:1	0.222	0.117	-0.13	20.98	20.00	0.798	0.177	0.093	22.3
Top side	40	QPSK 1_1	349000/1745	1:1	0.175	0.092	-0.19	20.98	20.00	0.798	0.140	0.073	22.3
	1	1		lotspot	Test da	ata (Sep	arate 1	0mm 50%RB)		ı			
Front side	40	QPSK 108_54	349000/1745	1:1	0.183	0.096	-0.02	20.82	20.00	0.828	0.152	0.079	22.3
Back side	40	QPSK 108_54	349000/1745	1:1	0.329	0.173	0.16	20.82	20.00	0.828	0.272	0.143	22.3
Right side	40	QPSK 108_54	349000/1745	1:1	0.244	0.128	-0.18	20.82	20.00	0.828	0.202	0.106	22.3
Top side	40	QPSK 108_54	349000/1745	1:1	0.190	0.100	-0.16	20.82	20.00	0.828	0.157	0.083	22.3
				1	Ant1	Test Re	cord El	NDC	1	1			
				Dute	SAR	SAR	Power	Conducted	Tunaum	Coolod	Scaled SAR		Liquid
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle		(W/kg)	drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	1-g	SAR 1-g	Temp.(℃)
					1-g	1-g	(dB)	, ,	, ,			(W/kg)	. ,
				1		d Test o	data(1R	,	ı	I			
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.093	0.036	-0.04	23.43	24.00	1.140	0.106	0.041	22.3
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.023	0.009	-0.07	23.43	24.00	1.140	0.026	0.010	22.3
Right cheek	40	ODCK 1 1	349000/1745	1:1	0.075	0.029	0.17	23.43	24.00	1.140	0.086	0.033	22.3
	40	QPSK 1_1	043000/1743	1.1			0.17		24.00				
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.016	0.006	0.19	23.43	24.00	1.140	0.018	0.007	22.3
Right tilted	40	QPSK 1_1	349000/1745	1:1	Head	0.006 Test da	0.19 ta(50%	23.43 RB)	24.00	1.140	0.018	0.007	22.3
		QPSK 1_1 QPSK 108_54	349000/1745 349000/1745		Head 0.109	0.006 Test da 0.042	0.19 ta(50% 0.19	23.43 RB) 23.36	24.00	1.140	0.018	0.007	22.3
Right tilted	40	QPSK 1_1  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745	1:1 1:1 1:1	Head 0.109 0.034	0.006 Test da 0.042 0.013	0.19 ta(50% 0.19 -0.14	23.43 RB) 23.36 23.36	24.00 24.00 24.00	1.140 1.159 1.159	0.018 0.126 0.039	0.007 0.049 0.015	22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek	40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1	Head 0.109 0.034 0.089	0.006 Test da 0.042 0.013 0.034	0.19 ta(50% 0.19 -0.14 -0.12	23.43 RB) 23.36 23.36 23.36	24.00 24.00 24.00 24.00	1.140 1.159 1.159 1.159	0.018 0.126 0.039 0.103	0.007 0.049 0.015 0.039	22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted	40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1	Head 0.109 0.034 0.089 0.023	0.006 Test da 0.042 0.013 0.034 0.009	0.19 ta(50% 0.19 -0.14 -0.12 0.18	23.43 RB) 23.36 23.36 23.36 23.36	24.00 24.00 24.00	1.140 1.159 1.159	0.018 0.126 0.039	0.007 0.049 0.015	22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted	40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w	Head 0.109 0.034 0.089 0.023	0.006 Test da 0.042 0.013 0.034 0.009 st data(S	0.19 sta(50% 0.19 -0.14 -0.12 0.18	23.43 RB) 23.36 23.36 23.36 23.36 23.36 215mm 1RB)	24.00 24.00 24.00 24.00 24.00	1.140 1.159 1.159 1.159 1.159	0.018 0.126 0.039 0.103 0.027	0.007 0.049 0.015 0.039 0.010	22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted  Front side	40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w	Head 0.109 0.034 0.089 0.023 vorn Tes 0.106	0.006 Test da 0.042 0.013 0.034 0.009 st data(\$0.055)	0.19 0.19 -0.14 -0.12 0.18 Separate 0.04	23.43  RB)  23.36  23.36  23.36  23.36  21.47	24.00 24.00 24.00 24.00 24.00	1.140 1.159 1.159 1.159 1.159	0.018 0.126 0.039 0.103 0.027	0.007 0.049 0.015 0.039 0.010 0.062	22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted	40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w	Head 0.109 0.034 0.089 0.023 vorn Tes 0.106 0.211	0.006 Test da 0.042 0.013 0.034 0.009 st data(\$ 0.055 0.109	0.19 tta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15	23.43  RB)  23.36  23.36  23.36  23.36  21.47  21.47	24.00 24.00 24.00 24.00 24.00 22.00	1.140 1.159 1.159 1.159 1.159	0.018 0.126 0.039 0.103 0.027	0.007 0.049 0.015 0.039 0.010	22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek Left tilted Right cheek Right tilted  Front side Back side	40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1	Head 0.109 0.034 0.089 0.023 vorn Tes 0.106 0.211 vorn Test	0.006 Test da 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$e\$	0.19 tta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 eparate	23.43 RB) 23.36 23.36 23.36 23.36 21.47 21.47 15mm 50%RB	24.00 24.00 24.00 24.00 24.00 22.00 22.00	1.140 1.159 1.159 1.159 1.159 1.130 1.130	0.018 0.126 0.039 0.103 0.027 0.120 0.238	0.007 0.049 0.015 0.039 0.010 0.062 0.123	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted  Front side  Back side	40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1	Head 0.109 0.034 0.089 0.023 vorn Tes 0.106 0.211 vn Test 0.136	0.006 Test dat 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$0.070	0.19 tta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 sparate -0.13	23.43  RB)  23.36  23.36  23.36  23.36  21.36  21.47  21.47  15mm 50%RB  21.36	24.00 24.00 24.00 24.00 24.00 22.00 22.00	1.140 1.159 1.159 1.159 1.159 1.130 1.130	0.018 0.126 0.039 0.103 0.027 0.120 0.238	0.007 0.049 0.015 0.039 0.010 0.062 0.123	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek Left tilted Right cheek Right tilted  Front side Back side	40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1 ody wo 1:1	Head 0.109 0.034 0.089 0.023 vorn Tes 0.106 0.211 rn Test 0.136 0.235	0.006 Test da 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$e 0.070 0.121	0.19 ta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 sparate -0.13 -0.19	23.43 RB) 23.36 23.36 23.36 23.36 21.47 21.47 21.47 15mm 50%RB 21.36 21.36	24.00 24.00 24.00 24.00 24.00 22.00 22.00	1.140 1.159 1.159 1.159 1.159 1.130 1.130	0.018 0.126 0.039 0.103 0.027 0.120 0.238	0.007 0.049 0.015 0.039 0.010 0.062 0.123	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek Left tilted Right cheek Right tilted  Front side Back side  Front side Back side	40 40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_54	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 0dy wo 1:1 1:1 Hotsp	Head 0.109 0.034 0.089 0.023 vorn Test 0.106 0.211 vn Test 0.136 0.235 oot Test	0.006 Test da 0.042 0.013 0.034 0.009 st data(\$\frac{9}{2}\$ 0.109 data(\$\frac{9}{2}\$ 0.070 0.121 data(\$\frac{9}{2}\$	0.19 ta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 eparate -0.13 -0.19 parate	23.43 RB) 23.36 23.36 23.36 23.36 21.47 21.47 15mm 50%RB 21.36 21.36 10mm 1RB)	24.00 24.00 24.00 24.00 24.00 22.00 22.00 22.00 22.00	1.140 1.159 1.159 1.159 1.159 1.130 1.130 1.159	0.018 0.126 0.039 0.103 0.027 0.120 0.238 0.158 0.272	0.007 0.049 0.015 0.039 0.010 0.062 0.123 0.081 0.140	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek Left tilted Right cheek Right tilted  Front side Back side  Front side Back side	40 40 40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1 ody wo 1:1 1:1 Hotsp	Head 0.109 0.034 0.089 0.023 vorn Test 0.106 0.211 rn Test 0.136 0.235 vot Test 0.256	0.006 Test dat 0.042 0.013 0.034 0.009 st data(\$ 0.055 0.109 data(\$e 0.070 0.121 data(\$e 0.146	0.19 tta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 eparate -0.13 -0.19 parate 0.03	23.43  RB)  23.36  23.36  23.36  23.36  21.47  21.47  15mm 50%RB  21.36  21.36  10mm 1RB)  20.46	24.00 24.00 24.00 24.00 24.00 22.00 22.00 22.00 22.00 22.00	1.140 1.159 1.159 1.159 1.130 1.130 1.159 1.159 1.159	0.018 0.126 0.039 0.103 0.027 0.120 0.238 0.158 0.272	0.007 0.049 0.015 0.039 0.010 0.062 0.123 0.081 0.140	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted  Front side  Back side  Front side  Back side  Front side  Back side	40 40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 0dy wo 1:1 1:1 Hotsp	Head 0.109 0.034 0.089 0.023 vorn Test 0.106 0.211 rn Test 0.136 0.235 vot Test 0.256 0.576	0.006 Test dat 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$e 0.070 0.121 data(\$e 0.328	0.19 ta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 eparate -0.13 -0.19 eparate 0.03 0.19	23.43 RB) 23.36 23.36 23.36 23.36 21.36 21.47 21.47 15mm 50%RB 21.36 21.36 10mm 1RB) 20.46 20.46	24.00 24.00 24.00 24.00 24.00 22.00 22.00 22.00 21.00 21.00	1.140 1.159 1.159 1.159 1.130 1.130 1.159 1.132 1.132	0.018 0.126 0.039 0.103 0.027 0.120 0.238 0.158 0.272 0.290 0.652	0.007 0.049 0.015 0.039 0.010 0.062 0.123 0.081 0.140 0.165 0.371	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek Left tilted Right cheek Right tilted  Front side Back side  Front side Back side	40 40 40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1 ody wo 1:1 1:1 Hotsp	Head 0.109 0.034 0.089 0.023 vorn Test 0.106 0.211 rn Test 0.136 0.235 vot Test 0.256	0.006 Test dat 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$0.070 0.121 data(\$0.0146)	0.19 tta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 eparate -0.13 -0.19 parate 0.03	23.43  RB)  23.36  23.36  23.36  23.36  21.47  21.47  15mm 50%RB  21.36  21.36  10mm 1RB)  20.46	24.00 24.00 24.00 24.00 24.00 22.00 22.00 22.00 22.00 22.00	1.140 1.159 1.159 1.159 1.130 1.130 1.159 1.159 1.159	0.018 0.126 0.039 0.103 0.027 0.120 0.238 0.158 0.272	0.007 0.049 0.015 0.039 0.010 0.062 0.123 0.081 0.140	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted  Front side  Back side  Front side  Back side  Front side  Back side	40 40 40 40 40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1 1:1 Hotsp 1:1	Head 0.109 0.034 0.089 0.023 vorn Test 0.106 0.211 rn Test 0.136 0.235 vot Test 0.256 0.576	0.006 Test dat 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$e 0.070 0.121 data(\$e 0.328	0.19 ta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 eparate -0.13 -0.19 eparate 0.03 0.19	23.43 RB) 23.36 23.36 23.36 23.36 21.36 21.47 21.47 15mm 50%RB 21.36 21.36 10mm 1RB) 20.46 20.46	24.00 24.00 24.00 24.00 24.00 22.00 22.00 22.00 21.00 21.00	1.140 1.159 1.159 1.159 1.130 1.130 1.159 1.132 1.132	0.018 0.126 0.039 0.103 0.027 0.120 0.238 0.158 0.272 0.290 0.652	0.007 0.049 0.015 0.039 0.010 0.062 0.123 0.081 0.140 0.165 0.371	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Right tilted  Left cheek  Left tilted  Right cheek  Right tilted  Front side  Back side  Front side  Back side  Left side  Left side	40 40 40 40 40 40 40 40 40 40 40	QPSK 1_1  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 108_54  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1  QPSK 1_1	349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 349000/1745 B 349000/1745 349000/1745 349000/1745 349000/1745	1:1 1:1 1:1 1:1 1:1 Body w 1:1 1:1 Hotsp 1:1 1:1	Head 0.109 0.034 0.089 0.023 vorn Test 0.106 0.211 m Test 0.136 0.235 vot Test 0.256 0.576 0.022	0.006 Test da 0.042 0.013 0.034 0.009 st data(\$0.055 0.109 data(\$0.070 0.121 data(\$0.0146 0.328 0.012	0.19 ta(50% 0.19 -0.14 -0.12 0.18 Separate 0.04 0.15 sparate -0.13 -0.19 parate 0.03 0.19 0.02	23.43 RB) 23.36 23.36 23.36 23.36 21.47 21.47 21.47 15mm 50%RB 21.36 21.36 10mm 1RB) 20.46 20.46 20.46	24.00 24.00 24.00 24.00 24.00 24.00 22.00 22.00 22.00 21.00 21.00	1.140  1.159 1.159 1.159 1.130 1.130 1.159 1.132 1.132 1.132	0.018 0.126 0.039 0.103 0.027 0.120 0.238 0.158 0.272 0.290 0.652 0.025	0.007 0.049 0.015 0.039 0.010 0.062 0.123 0.081 0.140 0.165 0.371 0.014	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3

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Report No.: SUCR250100002701

Rev.: 01

Page: 101 of 153

Front side	40	QPSK 108_54	349000/1745	1:1	0.275	0.156	0.01	20.27	21.00	1.183	0.325	0.185	22.3
Back side	40	QPSK 108_54	349000/1745	1:1	0.598	0.340	0.16	20.27	21.00	1.183	0.707	0.402	22.3
Left side	40	QPSK 108_54	349000/1745	1:1	0.039	0.022	0.10	20.27	21.00	1.183	0.046	0.026	22.3
Right side	40	QPSK 108_54	349000/1745	1:1	0.023	0.013	0.16	20.27	21.00	1.183	0.027	0.015	22.3
Bottom side	40	QPSK 108_54	349000/1745	1:1	0.745	0.424	0.01	20.27	21.00	1.183	0.881	0.502	22.3
			H	otspot	Test dat	ta (Sepa	rate 10	mm 100%RB)					
Bottom side	40	QPSK 216_0	349000/1745	1:1	0.682	0.383	-0.07	19.29	20.00	1.178	0.803	0.451	22.3

Table 32: SAR of 5G NR n66 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 102 of 153

### 8.2.24 SAR Result of 5G NR n71

					SA N7	1 SAR	Test Re	cord					
					Ar	nt0 Test	Recor	d					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	_	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	d Test	data(1R	B)					
Left cheek	20	QPSK 1_1	136100/680.5	1:1	0.011	0.005	-0.07	23.49	24.00	1.125	0.012	0.006	22.1
Left tilted	20	QPSK 1_1	136100/680.5	1:1	0.022	0.010	-0.08	23.49	24.00	1.125	0.025	0.011	22.1
Right cheek	20	QPSK 1_1	136100/680.5	1:1	0.026	0.011	0.19	23.49	24.00	1.125	0.029	0.012	22.1
Right tilted	20	QPSK 1_1	136100/680.5	1:1	0.047	0.021	0.15	23.49	24.00	1.125	0.053	0.024	22.1
					Head	Test da	ata(50%	RB)					
Left cheek	20	QPSK 50_28	136100/680.5	1:1	0.018	0.008	-0.10	23.38	24.00	1.153	0.021	0.009	22.1
Left tilted	20	QPSK 50_28	136100/680.5	1:1	0.028	0.013	-0.02	23.38	24.00	1.153	0.032	0.015	22.1
Right cheek	20	QPSK 50_28	136100/680.5	1:1	0.038	0.017	0.17	23.38	24.00	1.153	0.044	0.020	22.1
Right tilted	20	QPSK 50_28	136100/680.5	1:1	0.056	0.025	0.01	23.38	24.00	1.153	0.065	0.029	22.1
				Н	lead Tes	st data(*	1RB) Fo	r ENDC					
Left cheek	20	QPSK 1_1	136100/680.5	1:1	0.011	0.005	-0.09	23.49	21.00	0.564	0.006	0.003	22.1
Left tilted	20	QPSK 1_1	136100/680.5	1:1	0.022	0.010	0.00	23.49	21.00	0.564	0.012	0.006	22.1
Right cheek	20	QPSK 1_1	136100/680.5	1:1	0.026	0.011	-0.18	23.49	21.00	0.564	0.015	0.006	22.1
Right tilted	20	QPSK 1_1	136100/680.5	1:1	0.047	0.021	-0.07	23.49	21.00	0.564	0.026	0.012	22.1
					Head	Test da	ata(50%	RB)					
Left cheek	20	QPSK 50_28	136100/680.5	1:1	0.018	0.008	0.19	23.38	21.00	0.578	0.010	0.005	22.1
Left tilted	20	QPSK 50_28	136100/680.5	1:1	0.028	0.013	-0.03	23.38	21.00	0.578	0.016	0.008	22.1
Right cheek	20	QPSK 50_28	136100/680.5	1:1	0.038	0.017	0.00	23.38	21.00	0.578	0.022	0.010	22.1
Right tilted	20	QPSK 50_28		1:1	0.056	0.025	-0.02	23.38	21.00	0.578	0.032	0.014	22.1
				Body v	vorn Tes	st data(S	Separat	e 15mm 1RB)					
Front side	20	QPSK 1_1	136100/680.5	1:1	0.009	0.004	-0.01	23.49	24.00	1.125	0.010	0.004	22.1
Back side	20	QPSK 1_1	136100/680.5	1:1	0.055	0.027	0.07	23.49	24.00	1.125	0.062	0.030	22.1
			В	ody wo	rn Test	data(Se	eparate	15mm 50%RE	3)				
Front side	20	QPSK 50_28	136100/680.5	1:1	0.017	0.008	-0.08	23.38	24.00	1.153	0.020	0.009	22.1
Back side	20	QPSK 50_28	136100/680.5	1:1	0.063	0.031	-0.17	23.38	24.00	1.153	0.073	0.036	22.1
				Hotsp	ot Test	data(Se	parate	10mm 1RB)					
Front side	20	QPSK 1_1	136100/680.5	1:1	0.035	0.012	0.13	23.49	24.00	1.125	0.039	0.013	22.1
Back side	20	QPSK 1_1	136100/680.5	1:1	0.119	0.041	-0.13	23.49	24.00	1.125	0.134	0.046	22.1
Left side	20	QPSK 1_1	136100/680.5	1:1	0.016	0.006	-0.10	23.49	24.00	1.125	0.018	0.007	22.1
Right side	20	QPSK 1_1	136100/680.5	1:1	0.004	0.001	-0.01	23.49	24.00	1.125	0.004	0.001	22.1
Top side	20	QPSK 1_1	136100/680.5	1:1	0.096	0.033	0.08	23.49	24.00	1.125	0.108	0.037	22.1
			<u> </u>	lotspot	t Test da	ata (Sep	arate 1	0mm 50%RB)					
Front side	20	QPSK 50_28	136100/680.5	1:1	0.059	0.020	-0.19	23.38	24.00	1.153	0.068	0.023	22.1
Back side	20	QPSK 50_28	136100/680.5	1:1	0.145	0.050	0.06	23.38	24.00	1.153	0.167	0.058	22.1
Left side	20	QPSK 50_28	136100/680.5	1:1	0.031	0.011	0.14	23.38	24.00	1.153	0.036	0.013	22.1
Right side	20	QPSK 50_28	136100/680.5	1:1	0.006	0.002	-0.09	23.38	24.00	1.153	0.007	0.002	22.1
Top side	20	QPSK 50_28	136100/680.5	1:1	0.105	0.036	0.04	23.38	24.00	1.153	0.121	0.042	22.1

Table 33: SAR of 5G NR n71 for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 103 of 153

### 8.2.25 SAR Result of 5G NR n78

					SA N78	SAR To	est Rec	ord					
						2 Test I							
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Head	Test da	ata(1RB	5)					
Left cheek	100	QPSK 1_1	633334/3500.01	1:1	0.413	0.166	-0.08	17.07	18.00	1.239	0.512	0.206	22.3
Left tilted	100	QPSK 1_1	633334/3500.01	1:1	0.270	0.108	0.14	17.07	18.00	1.239	0.334	0.134	22.3
Right cheek	100	QPSK 1_1	633334/3500.01	1:1	0.145	0.058	-0.17	17.07	18.00	1.239	0.180	0.072	22.3
Right tilted	100	QPSK 1_1	633334/3500.01	1:1	0.155	0.062	-0.12	17.07	18.00	1.239	0.192	0.077	22.3
					Head T	est data	a(50%R	B)					
Left cheek	100	QPSK 135_69	633334/3500.01	1:1	0.431	0.173	-0.09	16.97	18.00	1.268	0.546	0.219	22.3
Left tilted	100	QPSK 135_69	633334/3500.01	1:1	0.297	0.119	-0.02	16.97	18.00	1.268	0.376	0.151	22.3
Right cheek	100	QPSK 135_69	633334/3500.01	1:1	0.174	0.070	-0.19	16.97	18.00	1.268	0.221	0.089	22.3
Right tilted	100	QPSK 135_69	633334/3500.01	1:1	0.185	0.074	0.05	16.97	18.00	1.268	0.235	0.094	22.3
			В	ody wo	rn Test	data(Se	eparate	15mm 1RB)					
Front side	100	QPSK 1_1	633334/3500.01	1:1	0.080	0.035	-0.03	18.96	20.00	1.271	0.102	0.044	22.3
Back side	100	QPSK 1_1	633334/3500.01	1:1	0.348	0.150	0.07	18.96	20.00	1.271	0.442	0.191	22.3
			Во	dy wor	n Test d	ata(Sep	arate 1	5mm 50%RB)	T				T
Front side	100	QPSK 135_69	633334/3500.01	1:1	0.102	0.044	0.17	18.93	20.00	1.279	0.130	0.056	22.3
Back side	100	QPSK 135_69	633334/3500.01	1:1	0.365	0.157	-0.03	18.93	20.00	1.279	0.467	0.201	22.3
				Hotspo	t Test d	ata(Sep	arate 10	0mm 1RB)					
Front side	100	QPSK 1_1	633334/3500.01	1:1	0.102	0.040	-0.09	18.01	19.00	1.256	0.128	0.050	22.3
Back side	100	QPSK 1_1	633334/3500.01	1:1	0.487	0.192	-0.18	18.01	19.00	1.256	0.612	0.241	22.3
Right side	100	QPSK 1_1	633334/3500.01	1:1	0.527	0.207	-0.08	18.01	19.00	1.256	0.662	0.260	22.3
Top side	100	QPSK 1_1	633334/3500.01	1:1	0.154	0.061	-0.09	18.01	19.00	1.256	0.193	0.077	22.3
			Ho	otspot <sup>-</sup>	Test dat	a (Sepa	rate 10r	mm 50%RB)	T				T
Front side	100	QPSK 135_69	633334/3500.01	1:1	0.120	0.047	0.05	17.93	19.00	1.279	0.154	0.060	22.3
Back side	100	QPSK 135_69	633334/3500.01	1:1	0.504	0.198	-0.13	17.93	19.00	1.279	0.645	0.253	22.3
Right side			633334/3500.01	1:1	0.539	0.212	-0.05	17.93	19.00	1.279	0.690	0.271	22.3
Top side	100	QPSK 135_69	633334/3500.01	1:1	0.166	0.065	0.01	17.93	19.00	1.279	0.212	0.083	22.3
		1		ot Test	,	•	1	1RB) For END					1
Front side	100	QPSK 1_1	633334/3500.01	1:1	0.102	0.040	-0.13	18.01	17.00	0.793	0.081	0.032	22.3
Back side	100	QPSK 1_1	633334/3500.01	1:1	0.487	0.192	0.11	18.01	17.00	0.793	0.386	0.152	22.3
Right side	100	QPSK 1_1	633334/3500.01	1:1	0.527	0.207	-0.04	18.01	17.00	0.793	0.418	0.164	22.3
Top side	100	QPSK 1_1	633334/3500.01	1:1	0.154	0.061	0.14	18.01	17.00	0.793	0.122	0.048	22.3
		1	1			_ ' _ '		mm 50%RB)	Г	ı	ı	ı	Г
Front side		_	633334/3500.01	1:1	0.120	0.047	0.10	17.93	17.00	0.807	0.097	0.038	22.3
Back side	_	_	633334/3500.01	1:1	0.504	0.198	-0.11	17.93	17.00	0.807	0.407	0.160	22.3
Right side	100	_	633334/3500.01	1:1	0.539	0.212	-0.05	17.93	17.00	0.807	0.435	0.171	22.3
Top side	100	QPSK 135_69	633334/3500.01	1:1	0.166	0.065	0.04	17.93	17.00	0.807	0.134	0.052	22.3

Table 34: SAR of 5G NR n78 Part 27Q for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 104 of 153

### 8.2.26 SAR Result of WIFI 2.4G

					Wi-F	i 2.4G S	AR Test	Record					
					An	t7 Test	Record	chain0					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
					Hea	ad Test o	data Stan	dalone					
Left cheek	802.11b	6/2437	99.74%	1.003	0.354	0.170	-0.08	16.79	17.50	1.178	0.417	0.200	22.5
Left tilted	802.11b	6/2437	99.74%	1.003	0.306	0.147	-0.18	16.79	17.50	1.178	0.360	0.173	22.5
Right cheek	802.11b	6/2437	99.74%	1.003	0.159	0.076	0.15	16.79	17.50	1.178	0.187	0.089	22.5
Right tilted	802.11b	6/2437	99.74%	1.003	0.164	0.079	-0.09	16.79	17.50	1.178	0.193	0.093	22.5
					Head	d Test da	ata Simul	taneous					
Left cheek	802.11b	6/2437	99.74%	1.003	0.354	0.170	-0.08	16.79	11.50	0.296	0.105	0.050	22.5
Left tilted	802.11b	6/2437	99.74%	1.003	0.306	0.147	-0.07	16.79	11.50	0.296	0.091	0.043	22.5
Right cheek	802.11b	6/2437	99.74%	1.003	0.159	0.076	0.11	16.79	11.50	0.296	0.047	0.022	22.5
Right tilted	802.11b	6/2437	99.74%	1.003	0.164	0.079	-0.19	16.79	11.50	0.296	0.049	0.023	22.5
				В	ody wo	rn Test o	data(Sep	arate 15mm)					
Front side	802.11b	6/2437	99.74%	1.003	0.031	0.016	-0.16	17.79	18.50	1.178	0.037	0.019	22.5
Back side	802.11b	6/2437	99.74%	1.003	0.090	0.046	-0.14	17.79	18.50	1.178	0.106	0.054	22.5
					Hotspot	Test da	ta (Sepa	rate 10mm)					
Front side	802.11b	6/2437	99.74%	1.003	0.018	0.009	0.19	15.25	15.80	1.135	0.020	0.010	22.5
Back side	802.11b	6/2437	99.74%	1.003	0.122	0.059	-0.07	15.25	15.80	1.135	0.138	0.067	22.5
Right side	802.11b	6/2437	99.74%	1.003	0.069	0.033	-0.19	15.25	15.80	1.135	0.078	0.037	22.5
Top side	802.11b	6/2437	99.74%	1.003	0.104	0.050	-0.03	15.25	15.80	1.135	0.118	0.057	22.5

Table 35: SAR of WIFI 2.4G for Head, Body and Hotspot.

Note: 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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Report No.: SUCR250100002701

Rev.: 01

Page: 105 of 153

### 8.2.27 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record													
Ant7 Test Record chain0													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1- g (W/kg)	SAR 10-g	Liquid Temp.(℃)
Head Test data of U-NII-1 Standalone													
Left cheek	802.11a		97.46%	1.026	0.434	0.153	-0.09	14.74	15.50	1.191	0.517	0.182	22.2
Left tilted	802.11a		97.46%	1.026	0.338	0.119	-0.16	14.74	15.50	1.191	0.403	0.142	22.2
Right cheek	802.11a		97.46%	1.026	0.166	0.058	-0.18	14.74	15.50	1.191	0.198	0.069	22.2
Right tilted	802.11a	40/5200	97.46%	1.026	0.174	0.061	0.19	14.74	15.50	1.191	0.207	0.073	22.2
Head Test data of U-NII-2A Standalone													
Left cheek			97.46%	1.026	0.533	0.184	-0.02	15.00	15.50	1.122	0.598	0.206	22.2
Left tilted			97.46%	1.026	0.429	0.148	-0.10	15.00	15.50	1.122	0.481	0.166	22.2
Right cheek			97.46%	1.026	0.183	0.063	0.09	15.00	15.50	1.122	0.205	0.071	22.2
Right tilted	802.11a	60/5300	97.46%	1.026	0.178	0.061	0.16	15.00	15.50	1.122	0.200	0.068	22.2
Head Test data of U-NII-2C Standalone													
Left cheek		116/5580		1.026	0.778	0.269	-0.08	15.25	15.50	1.059	0.824	0.285	22.2
Left tilted		116/5580		1.026	0.594	0.205	0.19	15.25	15.50	1.059	0.629	0.217	22.2
Right cheek		116/5580		1.026	0.468	0.162	-0.04	15.25	15.50	1.059	0.496	0.172	22.2
Right tilted   802.11a   116/5580   97.46%   1.026   0.400   0.138   -0.01   15.25   15.50   1.059   0.424   0.146   22.2    Head Test data of U-NII-3 Standalone													
1 - 54 - 1 1-	000 44 -	457/5705	07.400/				1		45.50	4.040	0.707	0.000	00.0
Left cheek		157/5785		1.026	0.765	0.258	-0.02	15.32	15.50	1.042	0.797	0.269	22.2
Left tilted		157/5785		1.026	0.636	0.214	0.03	15.32	15.50	1.042	0.663	0.223	22.2
Right cheek		157/5785		1.026	0.388	0.131	0.09	15.32	15.50	1.042	0.404	0.137	22.2
Right tilted	002.11a	157/5785	97.46%	1.026	0.414	0.140	0.19	15.32 Simultaneous	15.50	1.042	0.432	0.146	22.2
Left cheek	902 112	40/5200	07 46%	1.026	0.434	0.153	-0.09	14.74	11.00	0.423	0.183	0.065	22.2
Left tilted		40/5200		1.026	0.338	0.133	-0.09	14.74	11.00	0.423	0.163	0.050	22.2
Right cheek			97.46%	1.026	0.336	0.058	-0.19	14.74	11.00	0.423	0.143	0.030	22.2
Right tilted			97.46%	1.026	0.174	0.061	0.03	14.74	11.00	0.423	0.074	0.026	22.2
ragin tined	002.114	40/0200	57.4070				·	Simultaneous	11.00	0.420	0.074	0.020	22.2
Left cheek	802 11a	60/5300	97.46%	1.026	0.533	0.184	-0.02	15.00	11.00	0.398	0.212	0.073	22.2
Left tilted			97.46%	1.026	0.429	0.148	-0.04	15.00	11.00	0.398	0.171	0.059	22.2
Right cheek			97.46%	1.026	0.183	0.063	-0.18	15.00	11.00	0.398	0.073	0.025	22.2
Right tilted	802.11a	60/5300	97.46%	1.026	0.178	0.061	-0.01	15.00	11.00	0.398	0.071	0.024	22.2
					ead Test		l	Simultaneous	ı	1			
Left cheek	802.11a	116/5580	97.46%	1.026	0.778	0.269	-0.08	15.25	11.00	0.376	0.292	0.101	22.2
Left tilted		116/5580			0.594	0.205	-0.04	15.25	11.00	0.376	0.223	0.077	22.2
Right cheek		116/5580		1.026	0.468	0.162	0.05	15.25	11.00	0.376	0.176	0.061	22.2
Right tilted		116/5580		1.026	0.400	0.138	-0.19	15.25	11.00	0.376	0.150	0.052	22.2
	•	•		ŀ	lead Test		J-NII-3 S	Simultaneous	•	•	-	-	
Left cheek	802.11a	157/5785	97.46%	1.026	0.765	0.258	-0.02	15.32	11.00	0.370	0.283	0.095	22.2
Left tilted	802.11a	157/5785	97.46%	1.026	0.636	0.214	-0.14	15.32	11.00	0.370	0.235	0.079	22.2
Right cheek	802.11a	157/5785	97.46%	1.026	0.388	0.131	-0.09	15.32	11.00	0.370	0.143	0.048	22.2
Right tilted		157/5785		1.026	0.414	0.140	0.10	15.32	11.00	0.370	0.153	0.052	22.2
				Body	worn Tes	t data of l	J-NII-2A	(Separate 15r	nm)				

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Report No.: SUCR250100002701

Rev.: 01

Page: 106 of 153

Front side	802.11a	60/5300	97.46%	1.026	0.101	0.042	-0.01	16.99	18.00	1.262	0.127	0.053	22.2
Back side	802.11a	60/5300	97.46%	1.026	0.175	0.073	0.04	16.99	18.00	1.262	0.221	0.092	22.2
Body worn Test data of U-NII-2C(Separate 15mm)													
Front side	802.11a	116/5580	97.46%	1.026	0.145	0.061	-0.09	17.29	18.00	1.178	0.171	0.072	22.2
Back side	802.11a	116/5580	97.46%	1.026	0.297	0.124	0.04	17.29	18.00	1.178	0.350	0.146	22.2
Body worn Test data of U-NII-3(Separate 15mm)													
Front side	802.11a	157/5785	97.46%	1.026	0.145	0.060	-0.11	17.26	18.00	1.186	0.172	0.071	22.2
Back side	802.11a	157/5785	97.46%	1.026	0.161	0.067	0.01	17.26	18.00	1.186	0.191	0.079	22.2
	Hotspot Test data of U-NII-1(Separate 10mm)												
Front side	802.11a	40/5200	97.46%	1.026	0.067	0.024	-0.19	13.30	14.50	1.318	0.088	0.032	22.2
Back side	802.11a	40/5200	97.46%	1.026	0.079	0.028	-0.06	13.30	14.50	1.318	0.104	0.037	22.2
Right side	802.11a	40/5200	97.46%	1.026	0.084	0.030	0.09	13.30	14.50	1.318	0.111	0.040	22.2
Top side	802.11a	40/5200	97.46%	1.026	0.093	0.033	-0.04	13.30	14.50	1.318	0.123	0.044	22.2
	Hotspot Test data of U-NII-3(Separate 10mm)												
Front side	802.11a	157/5785	97.46%	1.026	0.087	0.033	0.01	13.77	14.50	1.183	0.103	0.039	22.2
Back side	802.11a	157/5785	97.46%	1.026	0.103	0.039	0.01	13.77	14.50	1.183	0.122	0.046	22.2
Right side	802.11a	157/5785	97.46%	1.026	0.109	0.042	0.15	13.77	14.50	1.183	0.129	0.050	22.2
Top side	802.11a	157/5785	97.46%	1.026	0.126	0.048	-0.16	13.77	14.50	1.183	0.149	0.057	22.2
	Test	Test	Duty	Duty Cycle	SAR		Power	Conducted	Tune up	Scaled	Scaled SAR	Scaled SAR	Liquid
Test position		ch./Freq.		Scaled	(W/kg)	(W/kg)	drift	Power(dBm)		factor	10-g	10-q	Temp.(℃)
		omar roqi	0,0.0	factor	10-g	10-g	(dB)	i onor(aziii)	(u)	lactor	(W/kg)	(W/kg)	· • · · ·
			Prod	luct spec	cific 10gS	AR Test of	data of l	J-NII-2A(Sepai	rate 0mm)				
Front side	802.11a	60/5300	97.46%	1.026	1.700	0.394	0.09	16.99	18.00	1.262	2.145	0.497	22.2
Back side	802.11a	60/5300	97.46%	1.026	1.690	0.392	0.06	16.99	18.00	1.262	2.132	0.495	22.2
Right side	802.11a	60/5300	97.46%	1.026	1.790	0.415	-0.01	16.99	18.00	1.262	2.259	0.524	22.2
Top side	802.11a	60/5300	97.46%	1.026	2.810	0.650	-0.10	16.99	18.00	1.262	3.546	0.820	22.2
			Prod	uct spec	cific 10gS	AR Test of	lata of U	J-NII-2C(Sepa	rate 0mm)				
Front side	802.11a	116/5580	97.46%	1.026	2.380	0.547	0.13	17.29	18.00	1.178	2.803	0.644	22.2
Back side	802.11a	116/5580	97.46%	1.026	2.320	0.533	-0.06	17.29	18.00	1.178	2.732	0.628	22.2
Right side	802.11a	116/5580	97.46%	1.026	3.300	0.759	0.11	17.29	18.00	1.178	3.886	0.894	22.2
Top side	802.11a	116/5580	97.46%	1.026	5.280	1.210	-0.02	17.29	18.00	1.178	6.218	1.425	22.2

Table 36: SAR of WIFI 5G for Head, Body and Hotspot.

#### Note:

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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Report No.: SUCR250100002701

Rev.: 01

Page: 107 of 153

### 8.2.28 SAR Result of BT

Bluetooth SAR Test Record													
Ant7 Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	SAR 1-g	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
Head Test data													
Left cheek	DH5	39/2441	77.04%	1.298	0.034	0.016	0.15	9.07	9.50	1.104	0.038	0.018	22.5
Left tilted	DH5	39/2441	77.04%	1.298	0.019	0.009	-0.18	9.07	9.50	1.104	0.021	0.010	22.5
Right cheek	DH5	39/2441	77.04%	1.298	0.008	0.004	0.18	9.07	9.50	1.104	0.009	0.004	22.5
Right tilted	DH5	39/2441	77.04%	1.298	0.010	0.005	0.17	9.07	9.50	1.104	0.011	0.006	22.5
				Во	dy worn	Test dat	a(Separ	ate 15mm)					
Front side	DH5	39/2441	77.04%	1.298	0.032	0.015	0.18	9.07	9.50	1.104	0.035	0.017	22.5
Back side	DH5	39/2441	77.04%	1.298	0.035	0.016	0.05	9.07	9.50	1.104	0.039	0.018	22.5
	Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.04%	1.298	0.051	0.022	0.17	9.07	9.50	1.104	0.056	0.024	22.5
Back side	DH5	39/2441	77.04%	1.298	0.060	0.026	0.09	9.07	9.50	1.104	0.066	0.029	22.5
Right side	DH5	39/2441	77.04%	1.298	0.033	0.014	0.18	9.07	9.50	1.104	0.036	0.015	22.5
Top side	DH5	39/2441	77.04%	1.298	0.039	0.017	0.14	9.07	9.50	1.104	0.043	0.019	22.5

Table 37: SAR of BT for Head, Body and Hotspot.

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Report No.: SUCR250100002701

Rev.: 01

Page: 108 of 153

### 8.2.29 SAR Result of NFC

NFC SAR Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Scaled factor	Scaled SAR 1-g (W/kg)	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)		
NFC Test data (Separate 0mm)													
Front side	NFC	13.56MHz	100.00%	1.000	0.000	0.000	0.03	1.000	0.000	0.000	22.3		
Back side	NFC	13.56MHz	100.00%	1.000	0.021	0.009	0.15	1.000	0.021	0.009	22.3		
Left side	NFC	13.56MHz	100.00%	1.000	0.000	0.000	0.05	1.000	0.000	0.000	22.3		
Right side	NFC	13.56MHz	100.00%	1.000	0.000	0.000	0.01	1.000	0.000	0.000	22.3		
Top side	NFC	13.56MHz	100.00%	1.000	0.000	0.000	0.09	1.000	0.000	0.000	22.3		
Bottom side	NFC	13.56MHz	100.00%	1.000	0.000	0.000	0.12	1.000	0.000	0.000	22.3		

Table 38: SAR of NFC for Body.

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SUCR250100002701 Report No.:

Rev.: 01

Page: 109 of 153

#### 8.3 Multiple Transmitter Evaluation

#### 8.3.1 Simultaneous SAR test evaluation

#### Simultaneous Transmission Possibilities

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz Ant7+NFC	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz Ant7 + BT Ant7+NFC	Yes	Yes	Yes	Yes

#### Note:

- 1) For Wi-Fi 5G, U-NII-1 (5150-5250 MHz) and U-NII-3 (5725-5850 MHz) bands does support hotspot function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.

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Report No.: SUCR250100002701

Rev.: 01

Page: 110 of 153

#### 8.3.2 Simultaneous Transmission SAR Summation Scenario

			SARmax (W/k	(g)			
Test po	esition	Max All ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
	Left cheek	1.122	0.105	0.292	0.038	1.227	1.452
	Left tilted	1.064	0.091	0.235	0.021	1.155	1.320
GSM850	Right cheek	1.181	0.047	0.176	0.009	1.228	1.366
	Right tilted	1.081	0.049	0.153	0.011	1.130	1.245
	Left cheek	1.259	0.105	0.292	0.038	1.364	1.589
	Left tilted	0.750	0.091	0.235	0.021	0.841	1.006
GSM1900	Right cheek	0.635	0.047	0.176	0.009	0.682	0.820
	Right tilted	0.588	0.049	0.153	0.011	0.637	0.752
	Left cheek	0.681	0.105	0.292	0.038	0.786	1.011
	Left tilted	0.321	0.091	0.235	0.021	0.412	0.577
WCDMA B2	Right cheek	0.300	0.047	0.176	0.009	0.347	0.485
	Right tilted	0.292	0.049	0.153	0.011	0.341	0.456
	Left cheek	0.939	0.105	0.292	0.038	1.044	1.269
	Left tilted	0.424	0.091	0.235	0.021	0.515	0.680
WCDMA B4	Right cheek	0.444	0.047	0.176	0.009	0.491	0.629
	Right tilted	0.337	0.049	0.153	0.011	0.386	0.501
	Left cheek	0.685	0.105	0.292	0.038	0.790	1.015
	Left tilted	0.653	0.091	0.235	0.021	0.744	0.909
WCDMA B5	Right cheek	0.809	0.047	0.176	0.009	0.856	0.994
	Right tilted	0.756	0.049	0.153	0.011	0.805	0.920
	Left cheek	0.172	0.105	0.292	0.038	0.277	0.502
L TE D7	Left tilted	0.136	0.091	0.235	0.021	0.227	0.392
LTE B7	Right cheek	0.413	0.047	0.176	0.009	0.460	0.598
	Right tilted	0.201	0.049	0.153	0.011	0.250	0.365
	Left cheek	0.522	0.105	0.292	0.038	0.627	0.852
LTE D40(47)	Left tilted	0.468	0.091	0.235	0.021	0.559	0.724
LTE B12(17)	Right cheek	0.730	0.047	0.176	0.009	0.777	0.915
	Right tilted	0.695	0.049	0.153	0.011	0.744	0.859
	Left cheek	0.897	0.105	0.292	0.038	1.002	1.227
LTE B13	Left tilted	0.754	0.091	0.235	0.021	0.845	1.010
LIEDIS	Right cheek	1.107	0.047	0.176	0.009	1.154	1.292
	Right tilted	0.982	0.049	0.153	0.011	1.031	1.146
	Left cheek	0.992	0.105	0.292	0.038	1.097	1.322
LTE B14	Left tilted	0.884	0.091	0.235	0.021	0.975	1.140
LICDI4	Right cheek	1.173	0.047	0.176	0.009	1.220	1.358
	Right tilted	1.120	0.049	0.153	0.011	1.169	1.284
	Left cheek	0.461	0.105	0.292	0.038	0.566	0.791
LTE B25(2)	Left tilted	0.253	0.091	0.235	0.021	0.344	0.509
	Right cheek	0.202	0.047	0.176	0.009	0.249	0.387

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Report No.: SUCR250100002701

Rev.: 01

Page: 111 of 153

	Right tilted	0.185	0.049	0.153	0.011	0.234	0.349
	Left cheek	0.651	0.105	0.292	0.038	0.756	0.981
LTE D00(5)	Left tilted	0.636	0.091	0.235	0.021	0.727	0.892
LTE B26(5)	Right cheek	0.856	0.047	0.176	0.009	0.903	1.041
	Right tilted	0.797	0.049	0.153	0.011	0.846	0.961
	Left cheek	0.604	0.105	0.292	0.038	0.709	0.934
LTE DOG(A)	Left tilted	0.270	0.091	0.235	0.021	0.361	0.526
LTE B66(4)	Right cheek	0.295	0.047	0.176	0.009	0.342	0.480
	Right tilted	0.239	0.049	0.153	0.011	0.288	0.403
	Left cheek	0.018	0.105	0.292	0.038	0.123	0.348
LTE D74	Left tilted	0.029	0.091	0.235	0.021	0.120	0.285
LTE B71	Right cheek	0.039	0.047	0.176	0.009	0.086	0.224
	Right tilted	0.057	0.049	0.153	0.011	0.106	0.221
	Left cheek	0.137	0.105	0.292	0.038	0.242	0.467
LTE BOO	Left tilted	0.092	0.091	0.235	0.021	0.183	0.348
LTE B38	Right cheek	0.361	0.047	0.176	0.009	0.408	0.546
	Right tilted	0.146	0.049	0.153	0.011	0.195	0.310
	Left cheek	0.118	0.105	0.292	0.038	0.223	0.448
. == 5.4	Left tilted	0.062	0.091	0.235	0.021	0.153	0.318
LTE B41	Right cheek	0.251	0.047	0.176	0.009	0.298	0.436
	Right tilted	0.085	0.049	0.153	0.011	0.134	0.249
	Left cheek	0.479	0.105	0.292	0.038	0.584	0.809
1 TE D 40	Left tilted	0.315	0.091	0.235	0.021	0.406	0.571
LTE B42	Right cheek	0.153	0.047	0.176	0.009	0.200	0.338
	Right tilted	0.210	0.049	0.153	0.011	0.259	0.374
	Left cheek	0.656	0.105	0.292	0.038	0.761	0.986
1 TE D 40	Left tilted	0.546	0.091	0.235	0.021	0.637	0.802
LTE B48	Right cheek	0.286	0.047	0.176	0.009	0.333	0.471
	Right tilted	0.333	0.049	0.153	0.011	0.382	0.497
	Left cheek	0.583	0.105	0.292	0.038	0.688	0.913
NO	Left tilted	0.282	0.091	0.235	0.021	0.373	0.538
N2	Right cheek	0.274	0.047	0.176	0.009	0.321	0.459
	Right tilted	0.223	0.049	0.153	0.011	0.272	0.387
	Left cheek	1.185	0.105	0.292	0.038	1.290	1.515
NE	Left tilted	1.079	0.091	0.235	0.021	1.170	1.335
N5	Right cheek	1.344	0.047	0.176	0.009	1.391	1.529
	Right tilted	1.295	0.049	0.153	0.011	1.344	1.459
	Left cheek	0.164	0.105	0.292	0.038	0.269	0.494
N17	Left tilted	0.070	0.091	0.235	0.021	0.161	0.326
N7	Right cheek	0.381	0.047	0.176	0.009	0.428	0.566
	Right tilted	0.098	0.049	0.153	0.011	0.147	0.262
	Left cheek	0.749	0.105	0.292	0.038	0.854	1.079
NOO	Left tilted	0.365	0.091	0.235	0.021	0.456	0.621
N66	Right cheek	0.396	0.047	0.176	0.009	0.443	0.581
	Right tilted	0.357	0.049	0.153	0.011	0.406	0.521
	•	•		•	•	•	

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Report No.: SUCR250100002701

Rev.: 01

Page: 112 of 153

	Left cheek	0.021	0.105	0.292	0.038	0.126	0.351
	Left tilted	0.032	0.091	0.235	0.021	0.123	0.288
N71	Right cheek	0.044	0.047	0.176	0.009	0.091	0.229
	Right tilted	0.065	0.049	0.153	0.011	0.114	0.229
	Left cheek	0.212	0.105	0.292	0.038	0.317	0.542
NIAA	Left tilted	0.168	0.091	0.235	0.021	0.259	0.424
N41	Right cheek	0.369	0.047	0.176	0.009	0.416	0.554
	Right tilted	0.248	0.049	0.153	0.011	0.297	0.412
	Left cheek	0.490	0.105	0.292	0.038	0.595	0.820
N48	Left tilted	0.480	0.091	0.235	0.021	0.571	0.736
1140	Right cheek	0.264	0.047	0.176	0.009	0.311	0.449
	Right tilted	0.240	0.049	0.153	0.011	0.289	0.404
	Left cheek	0.546	0.105	0.292	0.038	0.651	0.876
N/70	Left tilted	0.376	0.091	0.235	0.021	0.467	0.632
N78	Right cheek	0.221	0.047	0.176	0.009	0.268	0.406
	Right tilted	0.235	0.049	0.153	0.011	0.284	0.399

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SUCR250100002701 Report No.:

Rev.: 01

Page: 113 of 153

#### UL CA:

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	LTE B4 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Left cheek	0.461	0.093	0.105	0.292	0.038	0.659	0.884	
CA 2A 4A	Left tilted	0.253	0.029	0.091	0.235	0.021	0.373	0.538	
CA_2A-4A	Right cheek	0.202	0.076	0.047	0.176	0.009	0.325	0.463	
	Right tilted	0.185	0.019	0.049	0.153	0.011	0.253	0.368	

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	LTE B5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.461	0.517	0.105	0.292	0.038	1.083	1.308	
CA 2A-5A	Left tilted	0.253	0.506	0.091	0.235	0.021	0.850	1.015	
CA_ZA-SA	Right cheek	0.202	0.680	0.047	0.176	0.009	0.929	1.067	
	Right tilted	0.185	0.633	0.049	0.153	0.011	0.867	0.982	

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3	1+2+4+5	
	Left cheek	0.461	0.109	0.105	0.292	0.038	0.675	0.900	
CA 2A 7A	Left tilted	0.253	0.060	0.091	0.235	0.021	0.404	0.569	
CA_2A-7A	Right cheek	0.202	0.261	0.047	0.176	0.009	0.510	0.648	
-	Right tilted	0.185	0.100	0.049	0.153	0.011	0.334	0.449	

				SARmax (W/kg)				
Test position		LTE B4 Ant 2	LTE B5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.480	0.517	0.105	0.292	0.038	1.102	1.327
CA 4A-5A	Left tilted	0.214	0.506	0.091	0.235	0.021	0.811	0.976
CA_4A-5A	Right cheek	0.235	0.680	0.047	0.176	0.009	0.962	1.100
	Right tilted	0.190	0.633	0.049	0.153	0.011	0.872	0.987

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SUCR250100002701 Report No.:

Rev.: 01

Page: 114 of 153

				SARmax (W/kg)					
Test position		LTE B4 Ant 2	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.480	0.109	0.105	0.292	0.038	0.694	0.919	
CA 4A 7A	Left tilted	0.214	0.060	0.091	0.235	0.021	0.365	0.530	
CA_4A-7A	Right cheek	0.235	0.261	0.047	0.176	0.009	0.543	0.681	
	Right tilted	0.190	0.100	0.049	0.153	0.011	0.339	0.454	

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.517	0.109	0.105	0.292	0.038	0.731	0.956	
CA 5A-7A	Left tilted	0.506	0.060	0.091	0.235	0.021	0.657	0.822	
CA_5A-7A	Right cheek	0.680	0.261	0.047	0.176	0.009	0.988	1.126	
	Right tilted	0.633	0.100	0.049	0.153	0.011	0.782	0.897	

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	LTE B48 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.517	0.425	0.105	0.292	0.038	1.047	1.272	
CA 5A 48A	Left tilted	0.506	0.354	0.091	0.235	0.021	0.951	1.116	
CA_5A-48A	Right cheek	0.680	0.185	0.047	0.176	0.009	0.912	1.050	
	Right tilted	0.633	0.216	0.049	0.153	0.011	0.898	1.013	

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	LTE B66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	nmed SAR	
			2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.517	0.480	0.105	0.292	0.038	1.102	1.327	
CA 5A-66A	Left tilted	0.506	0.214	0.091	0.235	0.021	0.811	0.976	
CA_5A-66A	Right cheek	0.680	0.235	0.047	0.176	0.009	0.962	1.100	
	Right tilted	0.633	0.190	0.049	0.153	0.011	0.872	0.987	

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Report No.: SUCR250100002701

Rev.: 01

Page: 115 of 153

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	LTE B66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.262	0.480	0.105	0.292	0.038	0.847	1.072
CA 12A-	Left tilted	0.235	0.214	0.091	0.235	0.021	0.540	0.705
66A	Right cheek	0.366	0.235	0.047	0.176	0.009	0.648	0.786
	Right tilted	0.349	0.190	0.049	0.153	0.011	0.588	0.703

				SARmax (W/kg)				
Test position		LTE B48 Ant 2	LTE B66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.425	0.093	0.105	0.292	0.038	0.623	0.848
CA 48A-	Left tilted	0.354	0.029	0.091	0.235	0.021	0.474	0.639
66A	Right cheek	0.185	0.076	0.047	0.176	0.009	0.308	0.446
	Right tilted	0.216	0.019	0.049	0.153	0.011	0.284	0.399

#### **ENDC:**

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.461	0.666	0.105	0.292	0.038	1.232	1.457	
B2-n5	Left tilted	0.253	0.607	0.091	0.235	0.021	0.951	1.116	
DZ-II3	Right cheek	0.202	0.756	0.047	0.176	0.009	1.005	1.143	
	Right tilted	0.185	0.728	0.049	0.153	0.011	0.962	1.077	

				SARmax (W/kg)						
Test position		LTE B2 Ant 2	FR1 N41 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
		1	2	3	4	5	1+2+3 1+2+4+5			
	Left cheek	0.461	0.176	0.105	0.292	0.038	0.742	0.967		
B2-n41	Left tilted	0.253	0.087	0.091	0.235	0.021	0.431	0.596		
D2-114 I	Right cheek	0.202	0.369	0.047	0.176	0.009	0.618	0.756		
	Right tilted	0.185	0.135	0.049	0.153	0.011	0.369	0.484		

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SUCR250100002701 Report No.:

Rev.: 01

Page: 116 of 153

			SARmax (W/kg)						
Test position		LTE B2 Ant 2	FR1 N48 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3	1+2+4+5	
	Left cheek	0.461	0.490	0.105	0.292	0.038	1.056	1.281	
D2 = 40	Left tilted	0.253	0.480	0.091	0.235	0.021	0.824	0.989	
B2-n48 -	Right cheek	0.202	0.264	0.047	0.176	0.009	0.513	0.651	
	Right tilted	0.185	0.240	0.049	0.153	0.011	0.474	0.589	

				SARmax (W/kg)						
Test position		LTE B2 Ant 2	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
			2	3	4	5	1+2+3 1+2+4+5			
	Left cheek	0.461	0.126	0.105	0.292	0.038	0.692	0.917		
B2-n66	Left tilted	0.253	0.039	0.091	0.235	0.021	0.383	0.548		
D2-1100	Right cheek	0.202	0.103	0.047	0.176	0.009	0.352	0.490		
	Right tilted	0.185	0.027	0.049	0.153	0.011	0.261	0.376		

				SARmax (W/kg)						
Test position		LTE B2	FR1 N71	WiFi 2.4G	WiFi 5G	BT	Summed SAR			
•		Ant 2	Ant 0	Ant7	Ant7	Ant7				
		1	2	3	4	5	1+2+3 1+2+4+5			
	Left cheek	0.461	0.010	0.105	0.292	0.038	0.576	0.801		
B2-n71	Left tilted	0.253	0.016	0.091	0.235	0.021	0.360	0.525		
DZ-117 1	Right cheek	0.202	0.022	0.047	0.176	0.009	0.271	0.409		
	Right tilted	0.185	0.032	0.049	0.153	0.011	0.266	0.381		

				SARmax (W/kg)						
Test position		LTE B2 Ant 2	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
		1	2	3	4	5	1+2+3 1+2+4+5			
	Left cheek	0.461	0.546	0.105	0.292	0.038	1.112	1.337		
B2-n78	Left tilted	0.253	0.376	0.091	0.235	0.021	0.720	0.885		
DZ-II70	Right cheek	0.202	0.221	0.047	0.176	0.009	0.470	0.608		
	Right tilted	0.185	0.235	0.049	0.153	0.011	0.469	0.584		

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Report No.: SUCR250100002701

Rev.: 01

Page: 117 of 153

				SARmax (W/kg)	/kg)				
Test position		LTE B4 Ant 1	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
			2	3	4	J	11213	1121413	
	Left cheek	0.093	0.368	0.105	0.292	0.038	0.566	0.791	
D4 = 0	Left tilted	0.029	0.178	0.091	0.235	0.021	0.298	0.463	
B4-n2	Right cheek	0.076	0.173	0.047	0.176	0.009	0.296	0.434	
	Right tilted	0.019	0.141	0.049	0.153	0.011	0.209	0.324	

				SARmax (W/kg)					
Test position		LTE B4 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Left cheek	0.093	0.546	0.105	0.292	0.038	0.744	0.969	
D4 = 70	Left tilted	0.029	0.376	0.091	0.235	0.021	0.496	0.661	
B4-n78	Right cheek	0.076	0.221	0.047	0.176	0.009	0.344	0.482	
	Right tilted	0.019	0.235	0.049	0.153	0.011	0.303	0.418	

			SARmax (W/kg)					
Test position		LTE B4 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	nmed SAR
		1	2	3	4	5	1+2+3	1+2+4+5
	Left cheek	0.480	0.666	0.105	0.292	0.038	1.251	1.476
B4-n5	Left tilted	0.214	0.607	0.091	0.235	0.021	0.912	1.077
D4-113	Right cheek	0.235	0.756	0.047	0.176	0.009	1.038	1.176
	Right tilted	0.190	0.728	0.049	0.153	0.011	0.967	1.082

				SARmax (W/kg)						
Test position		LTE B5 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
		1	2	3	4	5	1+2+3 1+2+4+5			
	Left cheek	0.517	0.368	0.105	0.292	0.038	0.990	1.215		
B5-n2	Left tilted	0.506	0.178	0.091	0.235	0.021	0.775	0.940		
D3-112	Right cheek	0.680	0.173	0.047	0.176	0.009	0.900	1.038		
	Right tilted	0.633	0.141	0.049	0.153	0.011	0.823	0.938		

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Report No.: SUCR250100002701

Rev.: 01

Page: 118 of 153

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	FR1 N7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3	1+2+4+5	
	Left cheek	0.517	0.116	0.105	0.292	0.038	0.738	0.963	
B5-n7	Left tilted	0.506	0.049	0.091	0.235	0.021	0.646	0.811	
B5-N/ -	Right cheek	0.680	0.270	0.047	0.176	0.009	0.997	1.135	
	Right tilted	0.633	0.069	0.049	0.153	0.011	0.751	0.866	

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	FR1 N66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.517	0.376	0.105	0.292	0.038	0.998	1.223	
B5-n66	Left tilted	0.506	0.183	0.091	0.235	0.021	0.780	0.945	
D3-1100	Right cheek	0.680	0.199	0.047	0.176	0.009	0.926	1.064	
	Right tilted	0.633	0.179	0.049	0.153	0.011	0.861	0.976	

			SARmax (W/kg)						
Test position		LTE B5 Ant 0	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.517	0.546	0.105	0.292	0.038	1.168	1.393	
B5-n78	Left tilted	0.506	0.376	0.091	0.235	0.021	0.973	1.138	
B3-II76	Right cheek	0.680	0.221	0.047	0.176	0.009	0.948	1.086	
	Right tilted	0.633	0.235	0.049	0.153	0.011	0.917	1.032	

Test position		LTE B7 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Left cheek	0.171	0.546	0.105	0.292	0.038	0.822	1.047	
B7-n78	Left tilted	0.136	0.376	0.091	0.235	0.021	0.603	0.768	
D7-1170	Right cheek	0.218	0.221	0.047	0.176	0.009	0.486	0.624	
	Right tilted	0.201	0.235	0.049	0.153	0.011	0.485	0.600	

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Report No.: SUCR250100002701

Rev.: 01

Page: 119 of 153

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.262	0.368	0.105	0.292	0.038	0.735	0.960
B12-n2	Left tilted	0.235	0.178	0.091	0.235	0.021	0.504	0.669
D 12-112	Right cheek	0.366	0.173	0.047	0.176	0.009	0.586	0.724
	Right tilted	0.349	0.141	0.049	0.153	0.011	0.539	0.654

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	FR1 N41 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.262	0.212	0.105	0.292	0.038	0.579	0.804
B12-n41	Left tilted	0.235	0.168	0.091	0.235	0.021	0.494	0.659
B12-1141	Right cheek	0.366	0.271	0.047	0.176	0.009	0.684	0.822
	Right tilted	0.349	0.248	0.049	0.153	0.011	0.646	0.761

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.262	0.126	0.105	0.292	0.038	0.493	0.718
B12 =66	Left tilted	0.235	0.039	0.091	0.235	0.021	0.365	0.530
B12-n66 -	Right cheek	0.366	0.103	0.047	0.176	0.009	0.516	0.654
	Right tilted	0.349	0.027	0.049	0.153	0.011	0.425	0.540

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.262	0.546	0.105	0.292	0.038	0.913	1.138
B12-n78	Left tilted	0.235	0.376	0.091	0.235	0.021	0.702	0.867
B12-1170	Right cheek	0.366	0.221	0.047	0.176	0.009	0.634	0.772
	Right tilted	0.349	0.235	0.049	0.153	0.011	0.633	0.748

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SUCR250100002701 Report No.:

Rev.: 01

Page: 120 of 153

				SARmax (W/kg)				
Test position		LTE B14 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.497	0.368	0.105	0.292	0.038	0.970	1.195
B14-n2	Left tilted	0.443	0.178	0.091	0.235	0.021	0.712	0.877
D 14-112	Right cheek	0.588	0.173	0.047	0.176	0.009	0.808	0.946
	Right tilted	0.561	0.141	0.049	0.153	0.011	0.751	0.866

				SARmax (W/kg)				
Test position		LTE B14 Ant 0	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.497	0.126	0.105	0.292	0.038	0.728	0.953
B14-n66	Left tilted	0.443	0.039	0.091	0.235	0.021	0.573	0.738
	Right cheek	0.588	0.103	0.047	0.176	0.009	0.738	0.876
	Right tilted	0.561	0.027	0.049	0.153	0.011	0.637	0.752

				SARmax (W/kg)				
Test position		LTE B66 Ant 1	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.093	0.368	0.105	0.292	0.038	0.566	0.791
B66-n2	Left tilted	0.029	0.178	0.091	0.235	0.021	0.298	0.463
B00-112	Right cheek	0.076	0.173	0.047	0.176	0.009	0.296	0.434
	Right tilted	0.019	0.141	0.049	0.153	0.011	0.209	0.324

				SARmax (W/kg)				
Test position		LTE B66 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.480	0.666	0.105	0.292	0.038	1.251	1.476
B66-n5	Left tilted	0.214	0.607	0.091	0.235	0.021	0.912	1.077
500-115	Right cheek	0.235	0.756	0.047	0.176	0.009	1.038	1.176
	Right tilted	0.190	0.728	0.049	0.153	0.011	0.967	1.082

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Report No.: SUCR250100002701

Rev.: 01

Page: 121 of 153

				SARmax (W/kg)				
Test p	osition	LTE B66 Ant 1	FR1 N7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3  1+2+4+5	
		1	2	3	4	5		
	Left cheek	0.093	0.116	0.105	0.292	0.038	0.314	0.539
B66-n7	Left tilted	0.029	0.049	0.091	0.235	0.021	0.169	0.334
B00-II/	Right cheek	0.076	0.270	0.047	0.176	0.009	0.393	0.531
	Right tilted	0.019	0.069	0.049	0.153	0.011	0.137	0.252

				SARmax (W/kg)				
Test p	osition	LTE B66 Ant 1	FR1 N41 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Left cheek	0.093	0.176	0.105	0.292	0.038	0.374	0.599
B66-n41	Left tilted	0.029	0.087	0.091	0.235	0.021	0.207	0.372
D00-114 I	Right cheek	0.076	0.369	0.047	0.176	0.009	0.492	0.630
	Right tilted	0.019	0.135	0.049	0.153	0.011	0.203	0.318

				SARmax (W/kg)				
Test p	osition	LTE B66 Ant 1	FR1 N66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3  1+2+4+5	
		1	2	3	4	5		
	Left cheek	0.093	0.376	0.105	0.292	0.038	0.574	0.799
D66 ×66	Left tilted	0.029	0.183	0.091	0.235	0.021	0.303	0.468
B66-n66	Right cheek	0.076	0.199	0.047	0.176	0.009	0.322	0.460
	Right tilted	0.019	0.179	0.049	0.153	0.011	0.247	0.362

				SARmax (W/kg)				
Test p	oosition	LTE B66 Ant 2	FR1 N71 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3	
		1	2	3	4	5		
	Left cheek	0.480	0.010	0.105	0.292	0.038	0.595	0.820
B66-n71	Left tilted	0.214	0.016	0.091	0.235	0.021	0.321	0.486
D00-11/ 1	Right cheek	0.235	0.022	0.047	0.176	0.009	0.304	0.442
	Right tilted	0.190	0.032	0.049	0.153	0.011	0.271	0.386

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SUCR250100002701 Report No.:

Rev.: 01

Page: 122 of 153

				SARmax (W/kg)				
Test p	osition	LTE B66 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3  1+2+4+5	
		1	2	3	4	5		
	Left cheek	0.093	0.546	0.105	0.292	0.038	0.744	0.969
B66-n78	Left tilted	0.029	0.376	0.091	0.235	0.021	0.496	0.661
D00-1176	Right cheek	0.076	0.221	0.047	0.176	0.009	0.344	0.482
	Right tilted	0.019	0.235	0.049	0.153	0.011	0.303	0.418

				SARmax (W/kg)			Summed SAR  1+2+3  1+2+4+5	
Test p	osition	LTE B48 Ant 2	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7		
		1	2	3	4	5		
	Left cheek	0.425	0.126	0.105	0.292	0.038	0.656	0.881
B48-n66	Left tilted	0.354	0.039	0.091	0.235	0.021	0.484	0.649
D40-1100	Right cheek	0.185	0.103	0.047	0.176	0.009	0.335	0.473
	Right tilted	0.216	0.027	0.049	0.153	0.011	0.292	0.407

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Report No.: SUCR250100002701

Rev.: 01

Page: 123 of 153

Body:

Dody.			SARmax (W/k	(g)			
Test po	sition	Max All ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
CCMOTO	Front side	0.311	0.037	0.172	0.035	0.348	0.518
GSM850	Back side	0.405	0.106	0.350	0.039	0.511	0.794
CSM4000	Front side	0.234	0.037	0.172	0.035	0.271	0.441
GSM1900	Back side	0.393	0.106	0.350	0.039	0.499	0.782
WCDMA P2	Front side	0.212	0.037	0.172	0.035	0.249	0.419
WCDMA B2	Back side	0.337	0.106	0.350	0.039	0.443	0.726
WCDMA D4	Front side	0.209	0.037	0.172	0.035	0.246	0.416
WCDMA B4	Back side	0.317	0.106	0.350	0.039	0.423	0.706
WCDMA DE	Front side	0.294	0.037	0.172	0.035	0.331	0.501
WCDMA B5	Back side	0.359	0.106	0.350	0.039	0.465	0.748
LTC D7	Front side	0.196	0.037	0.172	0.035	0.233	0.403
LTE B7	Back side	0.303	0.106	0.350	0.039	0.409	0.692
LTE D40/47)	Front side	0.122	0.037	0.172	0.035	0.159	0.329
LTE B12(17)	Back side	0.148	0.106	0.350	0.039	0.254	0.537
LTE DAG	Front side	0.209	0.037	0.172	0.035	0.246	0.416
LTE B13	Back side	0.231	0.106	0.350	0.039	0.337	0.620
1.TE D44	Front side	0.210	0.037	0.172	0.035	0.247	0.417
LTE B14	Back side	0.250	0.106	0.350	0.039	0.356	0.639
LTE D05(0)	Front side	0.147	0.037	0.172	0.035	0.184	0.354
LTE B25(2)	Back side	0.256	0.106	0.350	0.039	0.362	0.645
LTE D00(5)	Front side	0.248	0.037	0.172	0.035	0.285	0.455
LTE B26(5)	Back side	0.275	0.106	0.350	0.039	0.381	0.664
LTE D00(4)	Front side	0.174	0.037	0.172	0.035	0.211	0.381
LTE B66(4)	Back side	0.259	0.106	0.350	0.039	0.365	0.648
LTE D74	Front side	0.018	0.037	0.172	0.035	0.055	0.225
LTE B71	Back side	0.067	0.106	0.350	0.039	0.173	0.456
LTE DOG	Front side	0.150	0.037	0.172	0.035	0.187	0.357
LTE B38	Back side	0.215	0.106	0.350	0.039	0.321	0.604
	Front side	0.114	0.037	0.172	0.035	0.151	0.321
LTE B41	Back side	0.204	0.106	0.350	0.039	0.310	0.593
1 TE D 40	Front side	0.177	0.037	0.172	0.035	0.214	0.384
LTE B42	Back side	0.641	0.106	0.350	0.039	0.747	1.030
. TT D./O	Front side	0.145	0.037	0.172	0.035	0.182	0.352
LTE B48	Back side	0.497	0.106	0.350	0.039	0.603	0.886
110	Front side	0.283	0.037	0.172	0.035	0.320	0.490
N2	Back side	0.431	0.106	0.350	0.039	0.537	0.820
	Front side	0.212	0.037	0.172	0.035	0.249	0.419
N5	Back side	0.348	0.106	0.350	0.039	0.454	0.737
	Front side	0.210	0.037	0.172	0.035	0.247	0.417
N7	Back side	0.407	0.106	0.350	0.039	0.513	0.796

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Report No.: SUCR250100002701

Rev.: 01

Page: 124 of 153

N66	Front side	0.180	0.037	0.172	0.035	0.217	0.387
1000	Back side	0.288	0.106	0.350	0.039	0.394	0.677
N71	Front side	0.020	0.037	0.172	0.035	0.057	0.227
IN/ I	Back side	0.073	0.106	0.350	0.039	0.179	0.462
N41	Front side	0.181	0.037	0.172	0.035	0.218	0.388
1141	Back side	0.340	0.106	0.350	0.039	0.446	0.729
N48	Front side	0.129	0.037	0.172	0.035	0.166	0.336
1140	Back side	0.445	0.106	0.350	0.039	0.551	0.834
N78	Front side	0.130	0.037	0.172	0.035	0.167	0.337
IN/O	Back side	0.467	0.106	0.350	0.039	0.573	0.856

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Report No.: SUCR250100002701

Rev.: 01

Page: 125 of 153

#### UL CA:

				SARmax (W/kg)					
Test p	osition	LTE B2 Ant 2	LTE B4 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3  1+2+4+5		
		1	2	3	4	5			
CA 2A 4A	Front side	0.147	0.160	0.037	0.172	0.035	0.344	0.514	
CA_2A-4A	Back side	0.256	0.257	0.106	0.350	0.039	0.619	0.902	

				SARmax (W/kg)				
Test p	osition	LTE B2 Ant 2	LTE B5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
CA 2A EA	Front side	0.147	0.248	0.037	0.172	0.035	0.432	0.602
CA_2A-5A	Back side	0.256	0.275	0.106	0.350	0.039	0.637	0.920

				SARmax (W/kg)				
Test p	osition	LTE B2 Ant 2	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3	
		1	2	3	4	5		
CA 2A 7A	Front side	0.147	0.155	0.037	0.172	0.035	0.339	0.509
CA_2A-7A	Back side	0.256	0.240	0.106	0.350	0.039	0.602	0.885

				SARmax (W/kg)				
Test p	osition	LTE B4 Ant 2	LTE B5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3	
		1	2	3	4	5		
CA 4A 5A	Front side	0.174	0.248	0.037	0.172	0.035	0.459	0.629
CA_4A-5A	Back side	0.259	0.275	0.106	0.350	0.039	0.640	0.923

Test position				SARmax (W/kg)				
		LTE B4 Ant 2	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	1+2+3 1+2+4+5	
		1	2	3	4	5		
Front side		0.174	0.155	0.037	0.172	0.035	0.366	0.536
CA_4A-7A	Back side	0.259	0.240	0.106	0.350	0.039	0.605	0.888

Test position				SARmax (W/kg)					
		LTE B5	LTE B7	WiFi 2.4G	WiFi 5G	BT	Summed SAR		
		Ant 0	Ant 4	Ant7	Ant7	Ant7			
		1	2	3	4	5	1+2+3	1+2+4+5	
CA 5A-7A	Front side	0.248	0.155	0.037	0.172	0.035	0.440	0.610	
CA_SA-TA	Back side	0.275	0.240	0.106	0.350	0.039	0.621	0.904	

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SUCR250100002701 Report No.:

Rev.: 01

Page: 126 of 153

				SARmax (W/kg)				
Test position		LTE B5 Ant 0	LTE B48 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
Front side		0.248	0.091	0.037	0.172	0.035	0.376	0.546
CA_5A-48A	Back side	0.275	0.314	0.106	0.350	0.039	0.695	0.978

				SARmax (W/kg)				
Test position		LTE B5 Ant 0	LTE B66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
			2	3	4	5	1+2+3 1+2+4+5	
Front side		0.248	0.174	0.037	0.172	0.035	0.459	0.629
CA_5A-66A	Back side	0.275	0.259	0.106	0.350	0.039	0.640	0.923

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	LTE B66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
CA_12A- Front side		0.122	0.174	0.037	0.172	0.035	0.333	0.503
66A	Back side	0.148	0.259	0.106	0.350	0.039	0.513	0.796

				SARmax (W/kg)				
Test position		LTE B48 Ant 2	LTE B66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	nmed SAR
		1	2	3	4	5	1+2+3	1+2+4+5
CA_48A-	Front side	0.091	0.160	0.037	0.172	0.035	0.288	0.458
66A	Back side	0.314	0.257	0.106	0.350	0.039	0.677	0.960

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Report No.: SUCR250100002701

Rev.: 01

Page: 127 of 153

#### **ENDC:**

				SARmax (W/kg)				
Test position		LTE B2 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3 1+2+4+5	
B2-n5 Front side		0.147	0.212	0.037	0.172	0.035	0.396	0.566
DZ-115	Back side	0.256	0.348	0.106	0.350	0.039	0.710	0.993

		SARmax (W/kg)								
Test position		LTE B2	FR1 N41	WiFi 2.4G	WiFi 5G	BT	Summed SAR			
i est p	rest position		Ant 4	Ant7	Ant7	Ant7				
		1	2	3	4	5	1+2+3	1+2+4+5		
B2-n41	Front side	0.147	0.181	0.037	0.172	0.035	0.365	0.535		
D2-114 I	Back side	0.256	0.340	0.106	0.350	0.039	0.702	0.985		

				SARmax (W/kg)				
Test position		LTE B2 Ant 2	FR1 N48 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	nmed SAR
			2	3	4	5	1+2+3 1+2+4+5	
B2-n48 Front side		0.147	0.129	0.037	0.172	0.035	0.313	0.483
DZ-1140	Back side	0.256	0.445	0.106	0.350	0.039	0.807	1.090

				SARmax (W/kg)							
Test position		LTE B2 Ant 2	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR			
			2	3	4	5	1+2+3	1+2+4+5			
B2-n66	Front side		0.158	0.037	0.172	0.035	0.342	0.512			
62-1100	Back side	0.256	0.272	0.106	0.350	0.039	0.634	0.917			

Test position				SARmax (W/kg)				
		LTE B2	FR1 N71	WiFi 2.4G	WiFi 5G	BT	Summed SAR	
		Ant 2	Ant 0	Ant7	Ant7	Ant7		
		1	2	3	4	5	1+2+3	1+2+4+5
Front side		0.147	0.020	0.037	0.172	0.035	0.204	0.374
B2-n71	Back side	0.256	0.073	0.106	0.350	0.039	0.435	0.718

				SARmax (W/kg)				
Test position		LTE B2 Ant 2	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		AIILZ	AIILZ	Allti	AIIU	AIII		
			2	3	4	5	1+2+3	1+2+4+5
B2-n78 Front side		0.147	0.130	0.037	0.172	0.035	0.314	0.484
DZ-II70	Back side	0.256	0.467	0.106	0.350	0.039	0.829	1.112

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Report No.: SUCR250100002701

Rev.: 01

Page: 128 of 153

				SARmax (W/kg)				
Test p	Test position		FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B4-n2	Front side	0.160	0.225	0.037	0.172	0.035	0.422	0.592
D4-112	Back side	0.257	0.342	0.106	0.350	0.039	0.705	0.988

				SARmax (W/kg)				
Test p	Test position		FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B4-n78	Front side	0.160	0.130	0.037	0.172	0.035	0.327	0.497
D4-II/0	Back side	0.257	0.467	0.106	0.350	0.039	0.830	1.113

			SARmax (W/kg)					
Test position		LTE B4 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B4-n5	Front side	0.174	0.212	0.037	0.172	0.035	0.423	0.593
D4-N5	Back side	0.259	0.348	0.106	0.350	0.039	0.713	0.996

				SARmax (W/kg)						
Test position		LTE B5	FR1 N2	WiFi 2.4G	WiFi 5G	BT	Summed SAR			
		Ant 0	Ant 2	Ant7	Ant7	Ant7				
		1	2	3	4	5	1+2+3	1+2+4+5		
B5-n2	Front side	0.248	0.225	0.037	0.172	0.035	0.510	0.680		
Back side		0.275	0.342	0.106	0.350	0.039	0.723	1.006		

				SARmax (W/kg)				
Test position		LTE B5 Ant 0	FR1 N7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B5-n7	Front side	0.248	0.187	0.037	0.172	0.035	0.472	0.642
D0-117	Back side	0.275	0.363	0.106	0.350	0.039	0.744	1.027

				SARmax (W/kg)						
Test position		LTE B5	FR1 N66	WiFi 2.4G	WiFi 5G	BT	Summed SAR			
		Ant 0	Ant 2	Ant7	Ant7	Ant7				
		1	2	3	4	5	1+2+3	1+2+4+5		
B5-n66	Front side	0.248	0.113	0.037	0.172	0.035	0.398	0.568		
D3-1100	Back side	0.275	0.182	0.106	0.350	0.039	0.563	0.846		

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SUCR250100002701 Report No.:

Rev.: 01

Page: 129 of 153

				SARmax (W/kg)				
Test position		LTE B5 Ant 0	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B5-n78	Front side	0.248	0.130	0.037	0.172	0.035	0.415	0.585
D3-II76	Back side	0.275	0.467	0.106	0.350	0.039	0.848	1.131

				SARmax (W/kg)				
Test position		LTE B7 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B7-n78	Front side	0.141	0.130	0.037	0.172	0.035	0.308	0.478
D/-II/0	Back side	0.220	0.467	0.106	0.350	0.039	0.793	1.076

				SARmax (W/kg)					
Test position		LTE B12 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5	
B12-n2	Front side	0.122	0.225	0.037	0.172	0.035	0.384	0.554	
D12-112	Back side	0.148	0.342	0.106	0.350	0.039	0.596	0.879	

		SARmax (W/kg)						
Test p	Test position		FR1 N41 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3	1+2+4+5
B12-n41	Front side	0.122	0.059	0.037	0.172	0.035	0.218	0.388
D12-1141	Back side	0.148	0.083	0.106	0.350	0.039	0.337	0.620

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
B12-n66	Front side	0.122	0.158	0.037	0.172	0.035	0.317	0.487
D12-1100	Back side	0.148	0.272	0.106	0.350	0.039	0.526	0.809

				SARmax (W/kg)				
Test position		LTE B12 Ant 0	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3	1+2+4+5
B12-n78	Front side	0.122	0.130	0.037	0.172	0.035	0.289	0.459
D12-1170	Back side	0.148	0.467	0.106	0.350	0.039	0.721	1.004

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Report No.: SUCR250100002701

Rev.: 01

Page: 130 of 153

				SARmax (W/kg)					
Test p	osition	LTE B14 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3		
		1	2	3	4	5			
B14-n2	Front side	0.210	0.225	0.037	0.172	0.035	0.472	0.642	
D 14-112	Back side	0.250	0.342	0.106	0.350	0.039	0.698	0.981	

				SARmax (W/kg)					
Test position		LTE B14 Ant 0	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5	
B14-n66	Front side	0.210	0.158	0.037	0.172	0.035	0.405	0.575	
D 14-1100	Back side	0.250	0.272	0.106	0.350	0.039	0.628	0.911	

				SARmax (W/kg)					
Test p	Test position		FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR	
		1	2	3	4	5	1+2+3 1+2+4+5		
B66-n2	Front side	0.160	0.225	0.037	0.172	0.035	0.422	0.592	
B00-112	Back side	0.257	0.342	0.106	0.350	0.039	0.705	0.988	

				SARmax (W/kg)					
Test p	osition	LTE B66 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3		
		1	2	3	4	5			
B66-n5	Front side	0.174	0.212	0.037	0.172	0.035	0.423 0.593		
D00-113	Back side	0.259	0.348	0.106	0.350	0.039	0.713	0.996	

				SARmax (W/kg)					
Test position		LTE B66 Ant 1	FR1 N7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5	
B66-n7	Front side	0.160	0.187	0.037	0.172	0.035	0.384	0.554	
D00-117	Back side	0.257	0.363	0.106	0.350	0.039	0.726	1.009	

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80 www.sgsgroup.com.cn



Report No.: SUCR250100002701

Rev.: 01

Page: 131 of 153

				SARmax (W/kg)					
Test p	osition	LTE B66 Ant 1	FR1 N41 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3  1+2+4+5		
		1	2	3	4	5			
B66-n41	Front side	0.160	0.181	0.037	0.172	0.035	0.378 0.548		
D00-114 I	Back side	0.257	0.340	0.106	0.350	0.039	0.703	0.986	

				SARmax (W/kg)					
Test p	osition	LTE B66 Ant 1	FR1 N66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR  1+2+3		
		1	2	3	4	5			
B66-n66	Front side	0.160	0.113	0.037	0.172	0.035	0.310	0.480	
D00-1100	Back side	0.257	0.182	0.106	0.350	0.039	0.545	0.828	

				SARmax (W/kg)					
Test p	osition	LTE B66 Ant 2	FR1 N71 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR	
		1	2	3	4	5	1+2+3 1+2+4+5		
B66-n71	Front side	0.174	0.020	0.037	0.172	0.035	0.231	0.401	
B00-117 1	Back side	0.259	0.073	0.106	0.350	0.039	0.438	0.721	

				SARmax (W/kg)				
Test p	osition	LTE B66 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
B66-n78	Front side	0.160	0.130	0.037	0.172	0.035	0.327	0.497
B00-1176	Back side	0.257	0.467	0.106	0.350	0.039	0.830	1.113

				SARmax (W/kg)					
Test position		LTE B48 Ant 2	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3	1+2+4+5	
B48-n66	Front side	0.091	0.158	0.037	0.172	0.035	0.286 0.456		
D40-1100	Back side	0.314	0.272	0.106	0.350	0.039	0.692	0.975	

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Report No.: SUCR250100002701

Rev.: 01

Page: 132 of 153

Hotspot:

notspot.			SARmax (W/k	(g)			
Test p	osition	Max All ant	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
	Front side	0.401	0.020	0.103	0.056	0.421	0.560
	Back side	0.734	0.138	0.122	0.066	0.872	0.922
COMOTO	Left side	0.181	0.000	0.000	0.000	0.181	0.181
GSM850	Right side	0.062	0.078	0.129	0.036	0.140	0.227
	Top side	0.507	0.118	0.149	0.043	0.625	0.699
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.439	0.020	0.103	0.056	0.459	0.598
	Back side	0.876	0.138	0.122	0.066	1.014	1.064
CCM4000	Left side	0.000	0.000	0.000	0.000	0.000	0.000
GSM1900	Right side	0.672	0.078	0.129	0.036	0.750	0.837
	Top side	0.350	0.118	0.149	0.043	0.468	0.542
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.349	0.020	0.103	0.056	0.369	0.508
	Back side	0.658	0.138	0.122	0.066	0.796	0.846
MODMA DO	Left side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Right side	0.508	0.078	0.129	0.036	0.586	0.673
	Top side	0.315	0.118	0.149	0.043	0.433	0.507
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.396	0.020	0.103	0.056	0.416	0.555
	Back side	0.644	0.138	0.122	0.066	0.782	0.832
MCDMA D4	Left side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Right side	0.487	0.078	0.129	0.036	0.565	0.652
	Top side	0.457	0.118	0.149	0.043	0.575	0.649
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.432	0.020	0.103	0.056	0.452	0.591
	Back side	0.729	0.138	0.122	0.066	0.867	0.917
MODMA DE	Left side	0.206	0.000	0.000	0.000	0.206	0.206
WCDMA B5	Right side	0.045	0.078	0.129	0.036	0.123	0.210
	Top side	0.583	0.118	0.149	0.043	0.701	0.775
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.210	0.020	0.103	0.056	0.230	0.369
	Back side	0.487	0.138	0.122	0.066	0.625	0.675
LTE D7	Left side	0.275	0.000	0.000	0.000	0.275	0.275
LTE B7	Right side	0.059	0.078	0.129	0.036	0.137	0.224
	Top side	0.115	0.118	0.149	0.043	0.872 0.181 0.140 0.625 0.000 0.459 1.014 0.000 0.750 0.468 0.000 0.369 0.796 0.000 0.586 0.433 0.000 0.416 0.782 0.000 0.565 0.575 0.000 0.452 0.867 0.206 0.123 0.701 0.000 0.230 0.625 0.275	0.307
	Bottom side	0.621	0.000	0.000	0.000	0.621	0.621
	Front side	0.185	0.020	0.103	0.056	0.205	0.344
LTE D40/47)	Back side	0.339	0.138	0.122	0.066	0.477	0.527
LTE B12(17)	Left side	0.118	0.000	0.000	0.000	0.118	0.118
	Right side	0.066	0.078	0.129	0.036	0.144	0.231

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Report No.: SUCR250100002701

Rev.: 01

Page: 133 of 153

	Top side	0.263	0.118	0.149	0.043	0.381	0.455
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.319	0.020	0.103	0.056	0.339	0.478
	Back side	0.497	0.138	0.122	0.066	0.635	0.685
	Left side	0.175	0.000	0.000	0.000	0.175	0.175
LTE B13	Right side	0.044	0.078	0.129	0.036	0.122	0.209
	Top side	0.441	0.118	0.149	0.043	0.559	0.633
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.357	0.020	0.103	0.056	0.377	0.516
	Back side	0.598	0.138	0.122	0.066	0.736	0.786
	Left side	0.189	0.000	0.000	0.000	0.189	0.189
LTE B14	Right side	0.086	0.078	0.129	0.036	0.164	0.251
	Top side	0.516	0.118	0.149	0.043	0.634	0.708
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.281	0.020	0.103	0.056	0.301	0.440
	Back side	0.582	0.138	0.122	0.066	0.720	0.770
	Left side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B25(2)	Right side	0.433	0.078	0.129	0.036	0.511	0.598
	Top side	0.300	0.118	0.149	0.043	0.418	0.492
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.397	0.020	0.103	0.056	0.417	0.556
	Back side	0.623	0.138	0.122	0.066	0.761	0.811
	Left side	0.200	0.000	0.000	0.000	0.200	0.200
LTE B26(5)	Right side	0.097	0.078	0.129	0.036	0.175	0.262
	Top side	0.536	0.118	0.149	0.043	0.654	0.728
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.329	0.020	0.103	0.056	0.349	0.488
	Back side	0.715	0.138	0.122	0.066	0.853	0.903
LTE B00(4)	Left side	0.047	0.000	0.000	0.000	0.047	0.047
LTE B66(4)	Right side	0.232	0.078	0.129	0.036	0.310	0.397
	Top side	0.304	0.118	0.149	0.043	0.422	0.496
	Bottom side	0.891	0.000	0.000	0.000	0.891	0.891
	Front side	0.037	0.020	0.103	0.056	0.057	0.196
	Back side	0.091	0.138	0.122	0.066	0.229	0.279
LTC D74	Left side	0.019	0.000	0.000	0.000	0.019	0.019
LTE B71	Right side	0.003	0.078	0.129	0.036	0.081	0.168
	Top side	0.066	0.118	0.149	0.043	0.184	0.258
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.428	0.020	0.103	0.056	0.448	0.587
	Back side	0.780	0.138	0.122	0.066	0.918	0.968
LTE D20	Left side	0.415	0.000	0.000	0.000	0.415	0.415
LTE B38	Right side	0.000	0.078	0.129	0.036	0.078	0.165
	Top side	0.261	0.118	0.149	0.043	0.379	0.453
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.169	0.020	0.103	0.056	0.189	0.328

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Report No.: SUCR250100002701

Rev.: 01

Page: 134 of 153

	1		ı	ı	ı	1	ı
	Back side	0.322	0.138	0.122	0.066	0.460	0.510
	Left side	0.197	0.000	0.000	0.000	0.197	0.197
	Right side	0.000	0.078	0.129	0.036	0.078	0.165
	Top side	0.141	0.118	0.149	0.043	0.259	0.333
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.157	0.020	0.103	0.056	0.177	0.316
	Back side	0.755	0.138	0.122	0.066	0.893	0.943
LTE D40	Left side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B42	Right side	0.724	0.078	0.129	0.036	0.802	0.889
	Top side	0.181	0.118	0.149	0.043	0.299	0.373
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.177	0.020	0.103	0.056	0.197	0.336
	Back side	0.642	0.138	0.122	0.066	0.780	0.830
LTE D40	Left side	0.000	0.000	0.000	0.000	0.000	0.000
LTE B48	Right side	0.592	0.078	0.129	0.036	0.670	0.757
	Top side	0.267	0.118	0.149	0.043	0.385	0.459
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.391	0.020	0.103	0.056	0.411	0.550
	Back side	0.697	0.138	0.122	0.066	0.835	0.885
110	Left side	0.000	0.000	0.000	0.000	0.000	0.000
N2	Right side	0.448	0.078	0.129	0.036	0.526	0.613
	Top side	0.397	0.118	0.149	0.043	0.515	0.589
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.398	0.020	0.103	0.056	0.418	0.557
	Back side	0.715	0.138	0.122	0.066	0.853	0.903
	Left side	0.247	0.000	0.000	0.000	0.247	0.247
N5	Right side	0.117	0.078	0.129	0.036	0.195	0.282
	Top side	0.526	0.118	0.149	0.043	0.644	0.718
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.211	0.020	0.103	0.056	0.231	0.370
	Back side	0.513	0.138	0.122	0.066	0.651	0.701
	Left side	0.290	0.000	0.000	0.000	0.290	0.290
N7	Right side	0.000	0.078	0.129	0.036	0.078	0.165
	Top side	0.107	0.118	0.149	0.043	0.225	0.299
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.325	0.020	0.103	0.056	0.345	0.484
	Back side	0.707	0.138	0.122	0.066	0.845	0.895
NGC	Left side	0.046	0.000	0.000	0.000	0.046	0.046
N66	Right side	0.320	0.078	0.129	0.036	0.398	0.485
	Top side	0.249	0.118	0.149	0.043	0.367	0.441
	Bottom side	0.881	0.000	0.000	0.000	0.881	0.881
	Front side	0.068	0.020	0.103	0.056	0.088	0.227
	Back side	0.167	0.138	0.122	0.066	0.305	0.355
N71	Left side	0.036	0.000	0.000	0.000	0.036	0.036
	Right side	0.007	0.078	0.129	0.036	0.085	0.172
	i agair dido	0.001	1 0.57.5	1 0.120	1 0.000	0.000	J V. 1 / 2

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SUCR250100002701 Report No.:

Rev.: 01

Page: 135 of 153

	Top side	0.121	0.118	0.149	0.043	0.239	0.313
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.247	0.020	0.103	0.056	0.267	0.406
	Back side	0.462	0.138	0.122	0.066	0.600	0.650
N41	Left side	0.232	0.000	0.000	0.000	0.232	0.232
1941	Right side	0.084	0.078	0.129	0.036	0.162	0.249
	Top side	0.085	0.118	0.149	0.043	0.203	0.277
	Bottom side	0.676	0.000	0.000	0.000	0.676	0.676
	Front side	0.157	0.020	0.103	0.056	0.177	0.316
	Back side	0.818	0.138	0.122	0.066	0.956	1.006
N/40	Left side	0.000	0.000	0.000	0.000	0.000	0.000
N48	Right side	0.751	0.078	0.129	0.036	0.829	0.916
	Top side	0.294	0.118	0.149	0.043	0.412	0.486
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.154	0.020	0.103	0.056	0.174	0.313
	Back side	0.645	0.138	0.122	0.066	0.783	0.833
N70	Left side	0.000	0.000	0.000	0.000	0.000	0.000
N78	Right side	0.690	0.078	0.129	0.036	0.768	0.855
	Top side	0.212	0.118	0.149	0.043	0.330	0.404
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

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SUCR250100002701 Report No.:

Rev.: 01

Page: 136 of 153

#### UL CA:

				SARmax (W/kg)				
Test p	osition	LTE B2 Ant 2	LTE B4 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.178	0.329	0.020	0.103	0.056	0.527	0.666
	Back side	0.367	0.715	0.138	0.122	0.066	1.220	1.270
CA 2A 4A	Left side	0.000	0.047	0.000	0.000	0.000	0.047	0.047
CA_2A-4A	Right side	0.273	0.028	0.078	0.129	0.036	0.379	0.466
	Top side	0.189	0.000	0.118	0.149	0.043	0.307	0.381
	Bottom side	0.000	0.891	0.000	0.000	0.000	0.891	0.891

				SARmax (W/kg)				
Test p	osition	LTE B2 Ant 2	LTE B5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
Fi	Front side	0.178	0.397	0.020	0.103	0.056	0.595	0.734
	Back side	0.367	0.623	0.138	0.122	0.066	1.128	1.178
CA 2A EA	Left side	0.000	0.200	0.000	0.000	0.000	0.200	0.200
CA_2A-5A	Right side	0.273	0.097	0.078	0.129	0.036	0.448	0.535
	Top side	0.189	0.536	0.118	0.149	0.043	0.843	0.917
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

				SARmax (W/kg)				
Test p	osition	LTE B2 Ant 2	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.178	0.132	0.020	0.103	0.056	0.330	0.469
	Back side	0.367	0.307	0.138	0.122	0.066	0.812	0.862
CA 2A 7A	Left side	0.000	0.173	0.000	0.000	0.000	0.173	0.173
CA_2A-7A	Right side	0.273	0.000	0.078	0.129	0.036	0.351	0.438
	Top side	0.189	0.072	0.118	0.149	0.043	0.379	0.453
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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SUCR250100002701 Report No.:

Rev.: 01

Page: 137 of 153

				SARmax (W/kg)				
Test p	osition	LTE B4 Ant 2	LTE B5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.162	0.397	0.020	0.103	0.056	0.579	0.718
	Back side	0.287	0.623	0.138	0.122	0.066	1.048	1.098
CA 4A-5A	Left side	0.000	0.200	0.000	0.000	0.000	0.200	0.200
CA_4A-5A	Right side	0.184	0.097	0.078	0.129	0.036	0.359	0.446
	Top side	0.241	0.536	0.118	0.149	0.043	0.895	0.969
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

				SARmax (W/kg)			Summed SAR 1+2+3 1+2+4+5		
Test p	osition	LTE B4 Ant 2	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.162	0.132	0.020	0.103	0.056	0.314	0.453	
	Back side	0.287	0.307	0.138	0.122	0.066	0.732	0.782	
CA 4A-7A	Left side	0.000	0.173	0.000	0.000	0.000	0.173	0.173	
CA_4A-7A	Right side	0.184	0.000	0.078	0.129	0.036	0.262	0.349	
-	Top side	0.241	0.072	0.118	0.149	0.043	0.431	0.505	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)				
Test p	osition	LTE B5 Ant 0	LTE B7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.397	0.132	0.020	0.103	0.056	0.549	0.688
	Back side	0.623	0.307	0.138	0.122	0.066	1.068	1.118
CA 5A 7A	Left side	0.200	0.173	0.000	0.000	0.000	0.373	0.373
CA_5A-7A	Right side	0.097	0.000	0.078	0.129	0.036	0.175	0.262
-	Top side	0.536	0.072	0.118	0.149	0.043	0.726	0.800
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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SUCR250100002701 Report No.:

Rev.: 01

Page: 138 of 153

				SARmax (W/kg)					
Test p	osition	LTE B5 Ant 0	LTE B48 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
Fron	Front side	0.397	0.112	0.020	0.103	0.056	0.529	0.668	
	Back side	0.623	0.405	0.138	0.122	0.066	1.166	1.216	
CA 5A-48A	Left side	0.200	0.000	0.000	0.000	0.000	0.200	0.200	
CA_5A-46A	Right side	0.097	0.374	0.078	0.129	0.036	0.549	0.636	
	Top side	0.536	0.168	0.118	0.149	0.043	0.822	0.896	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)					
Test p	osition	LTE B5 Ant 0	LTE B66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.397	0.162	0.020	0.103	0.056	0.579	0.718	
	Back side	0.623	0.287	0.138	0.122	0.066	1.048	1.098	
CA	Left side	0.200	0.000	0.000	0.000	0.000	0.200	0.200	
CA_5A-66A	Right side	0.097	0.184	0.078	0.129	0.036	0.359	0.446	
	Top side	0.536	0.241	0.118	0.149	0.043	0.895	0.969	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)				.367 0.506 .764 0.814	
Test p	osition	LTE B12 Ant 0	LTE B66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.185	0.162	0.020	0.103	0.056	0.367	0.506	
	Back side	0.339	0.287	0.138	0.122	0.066	0.764	0.814	
CA_12A-	Left side	0.118	0.000	0.000	0.000	0.000	0.118	0.118	
66A	Right side	0.066	0.184	0.078	0.129	0.036	0.328	0.415	
	Top side	0.263	0.241	0.118	0.149	0.043	0.622	0.696	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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Report No.: SUCR250100002701

Rev.: 01

Page: 139 of 153

				SARmax (W/kg)				
Test p	osition	LTE B48 Ant 2	LTE B66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.112	0.329	0.020	0.103	0.056	0.461	0.600
	Back side	0.405	0.715	0.138	0.122	0.066	1.258	1.308
CA_48A-	Left side	0.000	0.047	0.000	0.000	0.000	0.047	0.047
66A	Right side	0.374	0.028	0.078	0.129	0.036	0.480	0.567
	Top side	0.168	0.000	0.118	0.149	0.043	0.286	0.360
	Bottom side	0.000	0.891	0.000	0.000	0.000	0.891	0.891

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SUCR250100002701 Report No.:

Rev.: 01

Page: 140 of 153

#### **ENDC:**

				SARmax (W/kg)						
Test position		LTE B2 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
		1	2	3	4	5	1+2+3	1+2+4+5		
	Front side	0.178	0.398	0.020	0.103	0.056	0.596	0.735		
	Back side	0.367	0.715	0.138	0.122	0.066	1.220	1.270		
B2-n5	Left side	0.000	0.247	0.000	0.000	0.000	0.247	0.247		
DZ-115	Right side	0.273	0.117	0.078	0.129	0.036	0.468	0.555		
	Top side	0.189	0.526	0.118	0.149	0.043	0.833	0.907		
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	FR1 N41 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.178	0.192	0.020	0.103	0.056	0.390	0.529	
	Back side	0.367	0.462	0.138	0.122	0.066	0.967	1.017	
B2-n41	Left side	0.000	0.232	0.000	0.000	0.000	0.232	0.232	
D2-114 I	Right side	0.273	0.000	0.078	0.129	0.036	0.351	0.438	
	Top side	0.189	0.085	0.118	0.149	0.043	0.392	0.466	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)						
Test position		LTE B2 Ant 2	FR1 N48 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
		1	2	3	4	5	1+2+3	1+2+4+5		
	Front side	0.178	0.157	0.020	0.103	0.056	0.355	0.494		
	Back side	0.367	0.818	0.138	0.122	0.066	1.323	1.373		
B2-n48	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
DZ-1140	Right side	0.273	0.751	0.078	0.129	0.036	1.102	1.189		
	Top side	0.189	0.294	0.118	0.149	0.043	0.601	0.675		
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

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SUCR250100002701 Report No.:

Rev.: 01

Page: 141 of 153

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.178	0.325	0.020	0.103	0.056	0.523	0.662	
	Back side	0.367	0.707	0.138	0.122	0.066	1.212	1.262	
B2-n66	Left side	0.000	0.046	0.000	0.000	0.000	0.046	0.046	
62-1100	Right side	0.273	0.027	0.078	0.129	0.036	0.378	0.465	
	Top side	0.189	0.000	0.118	0.149	0.043	0.307	0.381	
	Bottom side	0.000	0.881	0.000	0.000	0.000	0.881	0.881	

				SARmax (W/kg)					
Test position		LTE B2 Ant 2	FR1 N71 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.178	0.068	0.020	0.103	0.056	0.266	0.405	
	Back side	0.367	0.167	0.138	0.122	0.066	0.672	0.722	
B2-n71	Left side	0.000	0.036	0.000	0.000	0.000	0.036	0.036	
D2-II/ I	Right side	0.273	0.007	0.078	0.129	0.036	0.358	0.445	
	Top side	0.189	0.121	0.118	0.149	0.043	0.428	0.502	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)				
Test p	Test position		FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	nmed SAR
		Ant 2	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.178	0.097	0.020	0.103	0.056	0.295	0.434
	Back side	0.367	0.407	0.138	0.122	0.066	0.912	0.962
B2-n78	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D2-II/0	Right side	0.273	0.435	0.078	0.129	0.036	0.786	0.873
	Top side	0.189	0.134	0.118	0.149	0.043	0.441	0.515
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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SUCR250100002701 Report No.:

Rev.: 01

Page: 142 of 153

				SARmax (W/kg)					
Test position		LTE B4 Ant 1	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.329	0.310	0.020	0.103	0.056	0.659	0.798	
	Back side	0.715	0.553	0.138	0.122	0.066	1.406	1.456	
B4-n2	Left side	0.047	0.000	0.000	0.000	0.000	0.047	0.047	
D4-112	Right side	0.028	0.356	0.078	0.129	0.036	0.462	0.549	
	Top side	0.000	0.316	0.118	0.149	0.043	0.434	0.508	
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891	

				SARmax (W/kg)					
Test position		LTE B4 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.329	0.097	0.020	0.103	0.056	0.446	0.585	
	Back side	0.715	0.407	0.138	0.122	0.066	1.260	1.310	
B4-n78	Left side	0.047	0.000	0.000	0.000	0.000	0.047	0.047	
D4-II70	Right side	0.028	0.435	0.078	0.129	0.036	0.541	0.628	
	Top side	0.000	0.134	0.118	0.149	0.043	0.252	0.326	
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891	

				SARmax (W/kg)					
Test position		LTE B4 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.162	0.398	0.020	0.103	0.056	0.580	0.719	
	Back side	0.287	0.715	0.138	0.122	0.066	1.140	1.190	
B4-n5	Left side	0.000	0.247	0.000	0.000	0.000	0.247	0.247	
D4-113	Right side	0.184	0.117	0.078	0.129	0.036	0.379	0.466	
	Top side	0.241	0.526	0.118	0.149	0.043	0.885	0.959	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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SUCR250100002701 Report No.:

Rev.: 01

Page: 143 of 153

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.397	0.310	0.020	0.103	0.056	0.727	0.866	
	Back side	0.623	0.553	0.138	0.122	0.066	1.314	1.364	
B5-n2	Left side	0.200	0.000	0.000	0.000	0.000	0.200	0.200	
D3-112	Right side	0.097	0.356	0.078	0.129	0.036	0.531	0.618	
	Top side	0.536	0.316	0.118	0.149	0.043	0.970	1.044	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)						
Test position		LTE B5 Ant 0	FR1 N7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR			
		1	2	3	4	5	1+2+3	1+2+4+5		
	Front side	0.397	0.150	0.020	0.103	0.056	0.567	0.706		
	Back side	0.623	0.363	0.138	0.122	0.066	1.124	1.174		
B5-n7	Left side	0.200	0.205	0.000	0.000	0.000	0.405	0.405		
DO-117	Right side	0.097	0.000	0.078	0.129	0.036	0.175	0.262		
	Top side	0.536	0.076	0.118	0.149	0.043	0.730	0.804		
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000		

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	FR1 N66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	nmed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.397	0.152	0.020	0.103	0.056	0.569	0.708	
	Back side	0.623	0.272	0.138	0.122	0.066	1.033	1.083	
B5-n66	Left side	0.200	0.000	0.000	0.000	0.000	0.200	0.200	
D3-1100	Right side	0.097	0.202	0.078	0.129	0.036	0.377	0.464	
	Top side	0.536	0.157	0.118	0.149	0.043	0.811	0.885	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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SUCR250100002701 Report No.:

Rev.: 01

Page: 144 of 153

				SARmax (W/kg)					
Test position		LTE B5 Ant 0	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.397	0.097	0.020	0.103	0.056	0.514	0.653	
	Back side	0.623	0.407	0.138	0.122	0.066	1.168	1.218	
B5-n78	Left side	0.200	0.000	0.000	0.000	0.000	0.200	0.200	
D3-1176	Right side	0.097	0.435	0.078	0.129	0.036	0.610	0.697	
	Top side	0.536	0.134	0.118	0.149	0.043	0.788	0.862	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)					
Test position		LTE B7 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.180	0.097	0.020	0.103	0.056	0.297	0.436	
	Back side	0.278	0.407	0.138	0.122	0.066	0.823	0.873	
B7-n78	Left side	0.052	0.000	0.000	0.000	0.000	0.052	0.052	
D7-I170	Right side	0.059	0.435	0.078	0.129	0.036	0.572	0.659	
	Top side	0.000	0.134	0.118	0.149	0.043	0.252	0.326	
	Bottom side	0.621	0.000	0.000	0.000	0.000	0.621	0.621	

				SARmax (W/kg)					
Test position		LTE B12 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.185	0.310	0.020	0.103	0.056	0.515	0.654	
	Back side	0.339	0.553	0.138	0.122	0.066	1.030	1.080	
B12-n2	Left side	0.118	0.000	0.000	0.000	0.000	0.118	0.118	
D 12-112	Right side	0.066	0.356	0.078	0.129	0.036	0.500	0.587	
	Top side	0.263	0.316	0.118	0.149	0.043	0.697	0.771	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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SUCR250100002701 Report No.:

Rev.: 01

Page: 145 of 153

				SARmax (W/kg)					
Test position		LTE B12 Ant 0	FR1 N41 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.185	0.247	0.020	0.103	0.056	0.452	0.591	
	Back side	0.339	0.341	0.138	0.122	0.066	0.818	0.868	
B12-n41	Left side	0.118	0.063	0.000	0.000	0.000	0.181	0.181	
D12-1141	Right side	0.066	0.084	0.078	0.129	0.036	0.228	0.315	
_	Top side	0.263	0.000	0.118	0.149	0.043	0.381	0.455	
	Bottom side	0.000	0.676	0.000	0.000	0.000	0.676	0.676	

				SARmax (W/kg)						
Test position		LTE B12 Ant 0	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5			
	Front side	0.185	0.325	0.020	0.103	0.056	0.530	0.669		
	Back side	0.339	0.707	0.138	0.122	0.066	1.184	1.234		
B12-n66	Left side	0.118	0.046	0.000	0.000	0.000	0.164	0.164		
B12-1100	Right side	0.066	0.027	0.078	0.129	0.036	0.171	0.258		
	Top side	0.263	0.000	0.118	0.149	0.043	0.381	0.455		
	Bottom side	0.000	0.881	0.000	0.000	0.000	0.881	0.881		

				SARmax (W/kg)					
Test position		LTE B12 Ant 0	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.185	0.097	0.020	0.103	0.056	0.302	0.441	
	Back side	0.339	0.407	0.138	0.122	0.066	0.884	0.934	
B12-n78	Left side	0.118	0.000	0.000	0.000	0.000	0.118	0.118	
D12-1170	Right side	0.066	0.435	0.078	0.129	0.036	0.579	0.666	
	Top side	0.263	0.134	0.118	0.149	0.043	0.515	0.589	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

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SUCR250100002701 Report No.:

Rev.: 01

Page: 146 of 153

				SARmax (W/kg)					
Test position		LTE B14 Ant 0	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.357	0.310	0.020	0.103	0.056	0.687	0.826	
	Back side	0.598	0.553	0.138	0.122	0.066	1.289	1.339	
B14-n2	Left side	0.189	0.000	0.000	0.000	0.000	0.189	0.189	
D 14-112	Right side	0.086	0.356	0.078	0.129	0.036	0.520	0.607	
_	Top side	0.516	0.316	0.118	0.149	0.043	0.950	1.024	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)				
Test position		LTE B14 Ant 0	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Front side	0.357	0.325	0.020	0.103	0.056	0.702	0.841
	Back side	0.598	0.707	0.138	0.122	0.066	1.443	1.493
B14-n66	Left side	0.189	0.046	0.000	0.000	0.000	0.235	0.235
B14-1100	Right side	0.086	0.027	0.078	0.129	0.036	0.191	0.278
	Top side	0.516	0.000	0.118	0.149	0.043	0.634	0.708
	Bottom side	0.000	0.881	0.000	0.000	0.000	0.881	0.881

				SARmax (W/kg)					
Test position		LTE B66 Ant 1	FR1 N2 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.329	0.310	0.020	0.103	0.056	0.659	0.798	
	Back side	0.715	0.553	0.138	0.122	0.066	1.406	1.456	
B66-n2	Left side	0.047	0.000	0.000	0.000	0.000	0.047	0.047	
B00-n2	Right side	0.028	0.356	0.078	0.129	0.036	0.462	0.549	
	Top side	0.000	0.316	0.118	0.149	0.043	0.434	0.508	
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891	

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SUCR250100002701 Report No.:

Rev.: 01

Page: 147 of 153

				SARmax (W/kg)					
Test position		LTE B66 Ant 2	FR1 N5 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.162	0.398	0.020	0.103	0.056	0.580	0.719	
	Back side	0.287	0.715	0.138	0.122	0.066	1.140	1.190	
Dee »E	Left side	0.000	0.247	0.000	0.000	0.000	0.247	0.247	
B66-n5	Right side	0.184	0.117	0.078	0.129	0.036	0.379	0.466	
_	Top side	0.241	0.526	0.118	0.149	0.043	0.885	0.959	
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

				SARmax (W/kg)				
Test position		LTE B66 Ant 1	FR1 N7 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Sur	mmed SAR
		1	2	3	4	5	1+2+3 1+2+4+5	
	Front side	0.329	0.150	0.020	0.103	0.056	0.499	0.638
	Back side	0.715	0.363	0.138	0.122	0.066	1.216	1.266
B66-n7	Left side	0.047	0.205	0.000	0.000	0.000	0.252	0.252
D00-117	Right side	0.028	0.000	0.078	0.129	0.036	0.106	0.193
	Top side	0.000	0.076	0.118	0.149	0.043	0.194	0.268
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891

				SARmax (W/kg)					
Test position		LTE B66 Ant 1	FR1 N41 Ant 4	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
		1	2	3	4	5	1+2+3 1+2+4+5		
	Front side	0.329	0.192	0.020	0.103	0.056	0.541	0.680	
	Back side	0.715	0.462	0.138	0.122	0.066	1.315	1.365	
B66-n41	Left side	0.047	0.232	0.000	0.000	0.000	0.279	0.279	
Б00-114 1	Right side	0.028	0.000	0.078	0.129	0.036	0.106	0.193	
	Top side	0.000	0.085	0.118	0.149	0.043	0.203	0.277	
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891	

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Report No.: SUCR250100002701

Rev.: 01

Page: 148 of 153

Test position		SARmax (W/kg)						
		LTE B66 Ant 1	FR1 N66 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.329	0.152	0.020	0.103	0.056	0.501	0.640
	Back side	0.715	0.272	0.138	0.122	0.066	1.125	1.175
B66-n66	Left side	0.047	0.000	0.000	0.000	0.000	0.047	0.047
500-1100	Right side	0.028	0.202	0.078	0.129	0.036	0.308	0.395
	Top side	0.000	0.157	0.118	0.149	0.043	0.275	0.349
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891

Test position		SARmax (W/kg)						
		LTE B66 Ant 2	FR1 N71 Ant 0	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
			2	3	4	5	1+2+3	1+2+4+5
	Front side	0.162	0.068	0.020	0.103	0.056	0.250	0.389
	Back side	0.287	0.167	0.138	0.122	0.066	0.592	0.642
B66-n71	Left side	0.000	0.036	0.000	0.000	0.000	0.036	0.036
D00-117 1	Right side	0.184	0.007	0.078	0.129	0.036	0.269	0.356
	Top side	0.241	0.121	0.118	0.149	0.043	0.480	0.554
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)						
		LTE B66 Ant 1	FR1 N78 Ant 2	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR	
		1	2	3	4	5	1+2+3	1+2+4+5
	Front side	0.329	0.097	0.020	0.103	0.056	0.446	0.585
	Back side	0.715	0.407	0.138	0.122	0.066	1.260	1.310
B66-n78	Left side	0.047	0.000	0.000	0.000	0.000	0.047	0.047
600-1176	Right side	0.028	0.435	0.078	0.129	0.036	0.541	0.628
	Top side	0.000	0.134	0.118	0.149	0.043	0.252	0.326
	Bottom side	0.891	0.000	0.000	0.000	0.000	0.891	0.891

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Report No.: SUCR250100002701

Rev.: 01

Page: 149 of 153

Test position		SARmax (W/kg)							
		LTE B48 Ant 2	FR1 N66 Ant 1	WiFi 2.4G Ant7	WiFi 5G Ant7	BT Ant7	Summed SAR		
			2	3	4	5	1+2+3	1+2+4+5	
	Front side	0.112	0.325	0.020	0.103	0.056	0.457	0.596	
	Back side	0.405	0.707	0.138	0.122	0.066	1.250	1.300	
B48-n66	Left side	0.000	0.046	0.000	0.000	0.000	0.046	0.046	
D40-1100	Right side	0.374	0.027	0.078	0.129	0.036	0.479	0.566	
	Top side	0.168	0.000	0.118	0.149	0.043	0.286	0.360	
	Bottom side	0.000	0.881	0.000	0.000	0.000	0.881	0.881	

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Report No.: SUCR250100002701

Rev.: 01

Page: 150 of 153

Product Specific 10-a (0mm):

			SARmax (W/kg)				
Test	position	Max All ant	WiFi 5G Ant7	NFC	Summed SAR		
		1	2	3	1+2+3		
	Front side	0.000	0.644	0.000	0.644		
	Back side	1.031	0.628	0.009	1.668		
LTE B38	Left side	0.000	0.000	0.000	0.000		
LIE DO	Right side	0.000	0.894	0.000	0.894		
	Top side	0.000	1.425	0.000	1.425		
	Bottom side	0.000	0.000	0.000	0.000		
	Front side	0.000	0.644	0.000	0.644		
	Back side	1.762	0.628	0.009	2.399		
LTE B42	Left side	0.000	0.000	0.000	0.000		
LIE B42	Right side	3.100	0.894	0.000	3.994		
	Top side	0.000	1.425	0.000	1.425		
	Bottom side	0.000	0.000	0.000	0.000		

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Report No.: SUCR250100002701

Rev.: 01

Page: 151 of 153

#### 9 Equipment list

a Equipment list											
	Test Platform	SPEAG DASY5 Professional									
	rest Flationii	SPEAG DASY8 Professional									
	Description	SAR Test System (Frequency range 10MHz-10GHz)									
	Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)									
	Sollware Reference	Measurement	Software: cDASY8	V16.4.0.5005							
	Hardware Reference										
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration					
$\boxtimes$	Twin Phantom	SPEAG	SAM3	1143	NCR	NCR					
$\boxtimes$	Twin Phantom	SPEAG	Twin-SAM V8.0	2155	NCR	NCR					
$\boxtimes$	DAE	SPEAG	DAE4	1374	2024-10-30	2025-10-29					
$\boxtimes$	DAE	SPEAG	DAE4	1245	2024-06-05	2025-06-04					
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	3801	2024-06-20	2025-06-19					
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	7761	2024-09-19	2025-09-18					
$\boxtimes$	Validation Kits	SPEAG	CLA13	1032	2023-02-09	2026-02-08					
$\boxtimes$	Validation Kits	SPEAG	D750V3	1214	2022-02-07	2025-02-06					
$\boxtimes$	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24					
$\boxtimes$	Validation Kits	SPEAG	D1750V2	1105	2023-11-03	2026-11-02					
$\boxtimes$	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03					
$\boxtimes$	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27					
$\boxtimes$	Validation Kits	SPEAG	D2600V2	1187	2022-02-03	2025-02-02					
$\boxtimes$	Validation Kits	SPEAG	D3500V2	1133	2022-02-08	2025-02-07					
$\boxtimes$	Validation Kits	SPEAG	D3700V2	1108	2022-02-07	2025-02-06					
$\boxtimes$	Validation Kits	SPEAG	D5GHzV2	1174	2023-08-23	2026-08-22					
$\boxtimes$	SUEM100842	SPEAG	DAKS-12	1043	2024-08-20	2025-08-19					
$\boxtimes$	SUEM100843	SPEAG	DAKS_VNA R60	21423005	2024-08-20	2025-08-19					
$\boxtimes$	Dielectric parameter probes	SPEAG	DAKS-3.5	1102	N/A	N/A					
$\boxtimes$	Universal Radio Communication Tester	R&S	CMW500	111637	2024-09-16	2025-09-15					
$\boxtimes$	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR					
$\boxtimes$	Signal Generator	R&S	SMB100A	182393	2024-02-05	2025-02-04					
$\boxtimes$	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR					
$\boxtimes$	Power Sensor	Keysight	U2002H	121251	2024-09-10	2025-09-09					
	Attenuator	SHX	TS2-3dB	30704	NCR	NCR					
	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR					
$\boxtimes$	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR					

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NA

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**NCR** 

**NCR** 

DC POWER SUPPLY



Report No.: SUCR250100002701

Rev.: 01

Page: 152 of 153

$\boxtimes$	Speed reading thermometer	LKM	DTM3000	NA	2024-09-16	2025-09-15
$\boxtimes$	Humidity and Temperature Indicator	MingGao	MingGao	NA	2024-09-16	2025-09-15

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

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Report No.: SUCR250100002701

Rev.: 01

Page: 153 of 153

#### 10 Calibration certificate

Please see the Appendix C

#### 11 Photographs

Please see the Appendix D

**Appendix A: Detailed System Check Results** 

**Appendix B: Detailed Test Results** 

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 

**Appendix E: Conducted RF Output Power** 

---END---

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