

Report No.: AR/2020/C001008

: 1 of 133

FCC SAR TEST REPORT

AR/2020/C001008 **Report No:**

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

Product Name: Mobile Phone Model No.(EUT): M2012K11G

Brand Name: Xiaomi

FCC ID: 2AFZZK11G

Standards: FCC 47CFR §2.1093

Date of Receipt: 2021-01-25

Date of Test: 2021-02-01 to 2021-02-18

Date of Issue: 2021-03-06 Test conclusion: PASS *

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

Authorized Signature:

Derek Yang

Derele yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
AR/2020/C001008	01	Original	2021-03-06



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TEST SUMMARY

	Maximum Reported SAR(W/kg)								
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR					
GSM850	0.52	0.16	0.27	/					
GSM1900	0.88	0.20	0.45	/					
WCDMA Band II	0.95	0.48	0.93	/					
WCDMA Band IV	0.85	0.38	0.48	/					
WCDMA Band V	0.56	0.17	0.29	/					
LTE Band 2	0.94	0.50	0.85	/					
LTE Band 4	0.89	0.43	0.62	/					
LTE Band 5	0.54	0.19	0.29	/					
LTE Band 7	0.49	0.74	0.38	/					
LTE Band 12	0.65	0.20	0.34	/					
LTE Band 17	0.69	0.20	0.37	/					
LTE Band 38	0.70	0.40	0.39	/					
LTE Band 41	0.65	0.35	0.41	/					
LTE Band 66	0.72	0.40	0.66	/					
NR Band 5	0.45	0.17	0.24	/					
NR Band 7	0.48	0.45	0.45	/					
NR Band 38	0.55	0.28	0.37	/					
NR Band 41	0.58	0.26	0.44	/					
NR Band 77	0.88	0.73	0.26	2.66					
WiFi 2.4G	0.94	0.28	0.48	/					
WiFi 5G	0.94	0.44	0.92	1.88					
BT	0.64	0.08	0.18	/					
SAR Limited(W/kg)		1.6		4.0					
, 3,	Maximum Simultar	neous Transmission SA	AR (W/kg)						
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR					
Sum SAR	1.59	1.46	1.56	3.66					
SPLSR		N/A	N/A	N/A					
SPLSR Limited		0.04		0.1					

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

Approved & Released by

Simon Ling

SAR Manager

Tested by

alfson li

Jackson Li

SAR Engineer



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1 General Information

1.1 Details of Client

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

1.2 Test Location

Company: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

Address: No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen,

Guangdong, China

Post code: 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 E-mail: ee.shenzhen@sgs.com



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1.3 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

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

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC –Designation Number: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

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

CAB identifier: CN0006

IC#: 4620C.



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1.4 General Description of EUT

Device Type :	portable device									
Exposure Category:	uncontrolled environme	uncontrolled environment / general population								
Product Name:	Mobile Phone									
Model No.(EUT):	M2012K11G									
FCC ID:	2AFZZK11G									
Brand name:	Xiaomi	Xiaomi								
Product Phase:	Identical Prototype									
IMEI:										
Hardware Version:	P2.1	P2.1								
Software Version:	MIUI12									
Antenna Type:	PIFA Antenna									
Device Operating Configurati										
GSM: GMSK, 8PSK; WCDMA: QPSK; LTE: QPSK,16QAM,64QAM, 256QAM Modulation Mode: 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK,8DPSK										
Device Class:	В									
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33							
HSDPA UE Category:	24 HSUPA UE Category 6									
DC-HSDPA UE Category:	orv: 24									
<u> </u>	4,tested with power level 5(GSM850)									
Day of Olaras	1,tested with power level 0(GSM1900)									
Power Class	3, tested with power control "all 1"(WCDMA Band)									
	3, tested with power cor	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 17	704~716	734~746							
	LTE Band 38	2570~2620	2570~2620							
	LTE Band 41	2496~2690	2496~2690							
	LTE Band 66	1710~1780	2110~2200							
	NR Band n5	824~849	869~894							
	NR Band n7	2500~2570	2620~2690							



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	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n77	3700~3980	3700~3980
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2472	2402~2472
		5150~5250	5150~5250
	\\\!: E: EO	5250~5350	5250~5350
	Wi-Fi 5G	5470~5725	5470~5725
		5725~5850	5725~5850



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1.4.1 DUT Antenna Locations(Back View)

Refer to Appendix D Photographs

Note:

The test device is a smart phone. The overall diagonal dimension of this device is 173 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

3) For WiFi 2.4G/5G only support MIMO/CDD mode together, and it has no SISO antenna mode.



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

EUT Sides for SAR Testing										
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom			
Ant1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes			
Ant2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No			
Ant3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No			
Ant4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No			
Ant5	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No			
Ant8	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No			
Ant9	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No			
Ant10	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes			
Ant12	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No			
BT(Ant7)	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No			
BT(Ant11)	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No			
WIFI MIMO	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No			

Table 1: **EUT Sides for SAR Testing** Note:

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



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1.4.2 LTE CA additional specification

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

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

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

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

- 1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05
- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.
- 2)SAR for UL CA is required in each exposure condition and frequency band combination
- 3)For this device, as the maximum output for Intra-band uplink LTE CA is ≤ standalone LTE mode (without CA),
- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)
- 5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit F _{UL_low} – F _{UL_high}		Downlink (DL) operating band BS transmit / UE receive FDL_low - FDL_high			- Duplex - Mode	
Dallu	Dallu							
CA_7	7	2500 MHz	_	2570 MHz	2620 MHz	_	2690 MHz	FDD
CA_38	38	2570 MHz	_	2620 MHz	2570 MHz	_	2620 MHz	TDD



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1.4.3 Power reduction specification

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

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction
- 3) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.
- 4) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance(Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in Section 8 of this report.

Ant1 Power Level(dBm)									
Power Reduction Scenario	WCDMA B2	WCDMA B4	LTE B2	LTE B4	LTE B7	LTE B38	LTE B41	LTE B7 (ENDC)	
Sensor off	25.0	25.0	25.5	25.5	25.5	25.5	25.5	23.3	
Sensor on	24.0	23.0	23.5	24.5	20.5	22.5	22.5	18.3	
Hotspot off	25.0	25.0	25.5	25.5	25.5	25.5	25.5	23.3	
Hotspot on	24.0	23.0	23.5	24.5	20.5	22.5	22.5	18.3	

Ant2 Power Level(dBm)										
Power Reduction Scenario GSM850 WCDMA B5 LTE B5 LTE B12 LTE I										
Receiver off	34.5	25.7	25.7	25.7	25.7					
Receiver on	32.5	22.7	21.7	22.7	21.7					
Hotspot off	34.5	25.7	25.7	25.7	25.7					
Hotspot on	32.5	22.7	21.7	22.7	21.7					

	Ant4 Power Level(dBm)								
Power Reduction Scenario	WCDMA B2	WCDMA B4	LTE B2	LTE B4	LTE B7	LTE B38	LTE B41	LTE B66	LTE B7 (ENDC)
Receiver off	25.0	25.0	25.5	25.7	25.4	25.4	25.4	25.4	22.5
Receiver on	21.0	20.0	21.5	20.7	17.4	21.4	21.4	19.4	14.5
Hotspot off	25.0	25.0	25.5	25.7	25.4	25.4	25.4	25.4	22.5
Hotspot on	21.0	20.0	21.5	20.7	17.4	21.4	21.4	19.4	14.5
Sensor off	25.0	25.0	25.5	25.7	25.4	25.4	25.4	25.4	22.5
Sensor on	23.0	23.0	22.5	23.7	21.4	23.4	23.4	23.4	18.5



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Ant8 Power Level(dBm)				
Power Reduction Scenario	LTE B7	LTE B38	LTE B7 (ENDC)	
Receiver off	20.0	23.0	20.5	
Receiver on	19.0	24.0	19.5	
Hotspot off	20.0	/	/	
Hotspot on	19.0	/	/	

Ant9 Power Level(dBm)			
Power Reduction Scenario	LTE B38	LTE B41	
Receiver off	20.2	20.2	
Receiver on	24.2	24.2	

Ant10 Power Level(dBm)				
Power Reduction Scenario	LTE B4	LTE B7	LTE B7 (ENDC)	
Sensor off	24.5	24.5	25.5	
Sensor on	23.5	19.5	20.5	
Hotspot off	24.5	24.5	25.5	
Hotspot on	23.5	19.5	20.5	

5G NR antenna(Ant1) Power Level(dBm)			
Power Reduction Scenario	n7	n38	n41
Sensor off	22.2	22.1	21.8
Sensor on	17.2	18.1	17.8
Hotspot off	22.2	22.1	21.8
Hotspot on	17.2	18.1	17.8

5G NR antenna(Ant2) Power Level(dBm)			
Power Reduction Scenario	n5	n77	
Receiver off	25.7	20.8	
Receiver on	20.7	18.8	
Hotspot off	/	20.8	
Hotspot on	/	18.8	

5G NR antenna(Ant3) Power Level(dBm)		
Power Reduction Scenario	n77	
Receiver off	24.5	
Receiver on	15.5	
Hotspot off	24.5	
Hotspot on	15.5	
Sensor off	24.5	
Sensor on	16.5	



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5G NR antenna(Ant4) Power Level(dBm)				
Power Reduction Scenario	n7	n38	n41	
Sensor off	21.6	21.6	21.2	
Sensor on	18.6	18.6	19.2	
Receiver off	21.6	21.6	21.2	
Receiver on	15.6	17.6	16.2	
Hotspot off	21.6	21.6	21.2	
Hotspot on	15.6	17.6	16.2	

5G NR antenna(Ant5) Power Level(dBm)		
Power Reduction Scenario n77		
Receiver off	20.1	
Receiver on	19.1	
Hotspot off	20.1	
Hotspot on	19.1	

5G NR antenna(Ant8) Power Level(dBm)			
Power Reduction Scenario n38 n41			
Receiver off	20.0	20.0	
Receiver on	21.0	21.0	

5G NR antenna(Ant9) Power Level(dBm)			
Power Reduction Scenario n38 n41			
Receiver off	19.2	20.0	
Receiver on	24.2	24.0	

5G NR antenna(Ant10) Power Level(dBm)			
Power Reduction Scenario	n5	n7	
Sensor off	25.5	25.5	
Sensor on	24.5	21.5	
Hotspot off	25.5	25.5	
Hotspot on	24.5	21.5	

5G NR antenna(Ant12) Power Level(dBm)			
Power Reduction Scenario	n77		
Receiver off	18.8		
Receiver on	24.8		

WIFI 2.4g Power Level(dBm)						
Mode	Power Reduction Scenario	Receiver ff&Hotspot	Receiver on	Hotspot on	Receiver on+WWAN	Receiver on+WWAN+WiFi 5G
	802.11b	23.5	21.5	22.5	20.5	17.5
WIFI 2.4G	802.11g	22.5	21.5	22.5	20.5	17.5
MIMO	802.11n 20M	22.5	21.5	22.5	20.5	17.5
	802.11n 40M	20.5	20.5	20.5	20.5	17.5



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			WII	FI 5G Power L	evel(dBm)		
Mode	Power Reduction Scenario	Receiver off&Hotspot	Receiver on	Hotspot on	Receiver on+WWAN	Receiver on+WWAN+WiFi 2.4G or BT	Receiver off+WWAN or Receiver off+WWAN+WiFi 2.4G or BT
	U-NII-1	22.5	21.0	22.5	19.5	17.0	20.5
WIFI 5G	U-NII-2A	22.5	21.0	22.5	19.5	17.0	20.5
802.11a	U-NII-2C	21.5	21.0	21.5	19.5	17.0	19.5
	U-NII-3	23.5	20.5	21.5	19.0	16.5	21.5
	U-NII-1	22.5	21.0	22.5	19.5	17.0	20.5
WIFI 5G 802.11n	U-NII-2A	22.5	21.0	22.5	19.5	17.0	20.5
20M	U-NII-2C	21.5	21.0	21.5	19.5	17.0	19.5
	U-NII-3	23.5	20.5	21.5	19.0	16.5	21.5
	U-NII-1	20.5	20.5	20.5	19.5	17.0	20.5
WIFI 5G	U-NII-2A	20.5	20.5	20.5	19.5	17.0	20.5
802.11n 40M	U-NII-2C	19.5	19.5	19.5	19.5	17.0	19.5
10111	U-NII-3	21.5	20.5	21.5	19.0	16.5	21.5
	U-NII-1	22.5	21.0	22.5	19.5	17.0	20.5
WIFI 5G 802.11ac	U-NII-2A	22.5	21.0	22.5	19.5	17.0	20.5
20M	U-NII-2C	21.5	21.0	21.5	19.5	17.0	19.5
20111	U-NII-3	22.5	20.5	21.5	19.0	16.5	21.5
	U-NII-1	20.5	20.5	20.5	19.5	17.0	20.5
WIFI 5G	U-NII-2A	20.5	20.5	20.5	19.5	17.0	20.5
802.11ac 40M	U-NII-2C	20.5	20.5	20.5	19.5	17.0	19.5
	U-NII-3	21.5	20.5	21.5	19.0	16.5	21.5
	U-NII-1	20.5	20.5	20.5	19.5	17.0	20.5
WIFI 5G	U-NII-2A	20.5	20.5	20.5	19.5	17.0	20.5
802.11ac 80M	U-NII-2C	19.5	19.5	19.5	19.5	17.0	19.5
00	U-NII-3	20.5	20.5	20.5	19.0	16.5	20.5
WIFI 5G	U-NII-1/2A	19.5	19.5	19.5	19.5	17.0	19.5
802.11ac 160M	U-NII-2C	18.5	18.5	18.5	18.5	16.5	18.5

BT1(Ant11) Power Level(dBm)				
Mode	Power Reduction Scenario	BT only	BT+WWAN+WIFI 5G	
	GFSK	16.0	15.0	
ВТ	π/4DQPSK	14.0	13.0	
	8DPSK	14.0	13.0	
BLE 1M	GFSK	9.0	9.0	
BLE 2M	GFSK	9.0	9.0	

BT2(Ant7) Power Level(dBm)				
Mode	Power Reduction Scenario	BT only	BT+WWAN+WIFI 5G	
	GFSK	16.0	13.0	
ВТ	π/4DQPSK	14.0	11.0	
	8DPSK	14.0	11.0	
BLE 1M	GFSK	9.0	9.0	
BLE 2M	GFSK	9.0	9.0	



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

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

Notes:

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

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



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

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

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



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Laboratory Environment 2

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.		

Table 2: The Ambient Conditions



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SAR Measurements System Configuration

3.1 The SAR Measurement System

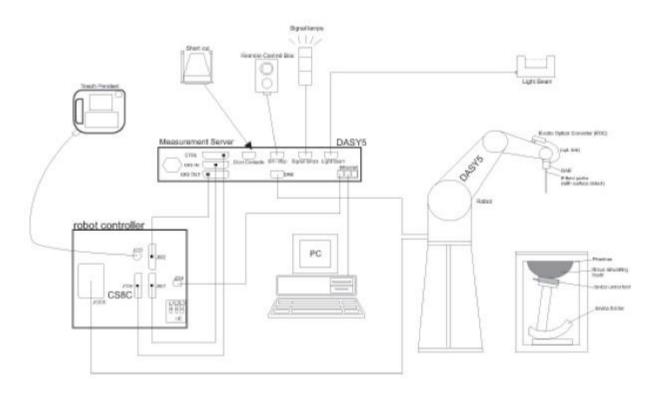
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the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

The DASY5 system for performing compliance tests consists of the following items: A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

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

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

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



F-1. SAR Measurement System Configuration



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

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 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	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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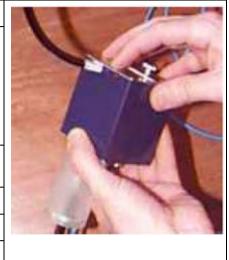


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3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



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

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



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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid	Compatible with all SPEAG tissue
Compatibility	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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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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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-q 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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			≤ 3 GHz	> 3 GHz
geometric center of probe sensors) to phantom surface			$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle surface normal at the n			30° ± 1°	20° ± 1°
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	$3 - 4 \text{ GHz}$: $\leq 12 \text{ mm}$ $4 - 6 \text{ GHz}$: $\leq 10 \text{ mm}$
Maximum area scan sp	atial resoli	ation: ∆x _{Area} , ∆y _{Area}	When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the test	on, is smaller than the above, must be ≤ the corresponding evice with at least one
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$
	uniform	grid: ∆z _{Z∞m} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3-4 \text{ GHz}: \leq 3 \text{ mm}$ $4-5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5-6 \text{ GHz}: \leq 2 \text{ mm}$
	grid $\Delta z_{Z_{0om}}(n>1)$: between subsequent $\leq 1.5 \cdot \Delta z_{Z_{0om}}(n)$	Zoom(n-1)		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

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



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factorDiode compression pointDcpi

Device parameters: - Frequency f

- Crest factor cf Media parameters: - Conductivity ε

- Density ρ

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

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

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

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

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

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

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

Vi = compensated signal of channel i

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

[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

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

ε= equivalent tissue density in g/cm3

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

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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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 ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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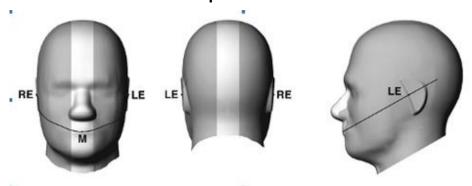
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Description of Test Position

5.1 Head Exposure Condition

SAM Phantom Shape 5.1.1

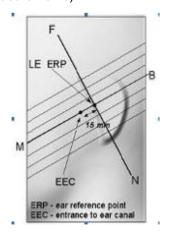


Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

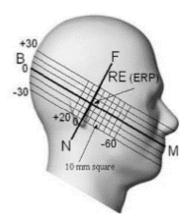
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



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



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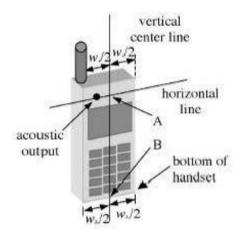
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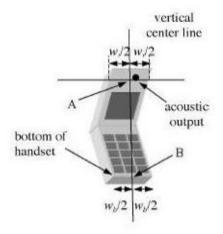
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5.1.2 **EUT constructions**



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



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

Definition of the "cheek" position 5.1.3

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



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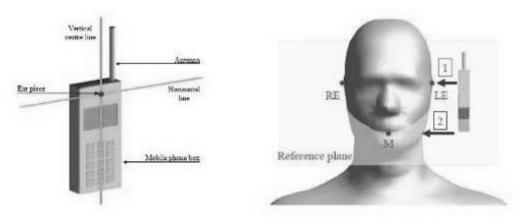
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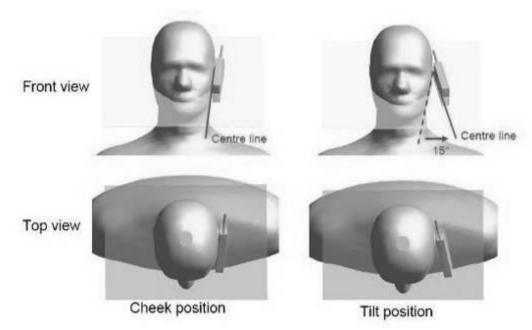
5.1.4 Definition of the "tilted" position

a) Position the device in the "cheek" position described above;

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



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



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



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5.2 Body Exposure Condition

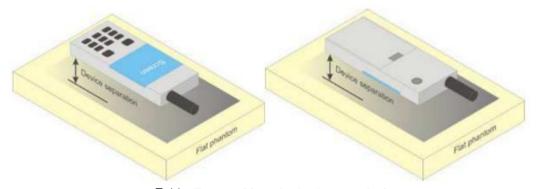
5.2.1 Body-worn accessory exposure conditions

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

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Bodyworn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

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



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

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

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

5G NR N77(Ant3):

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g		Conducted power (dBm)			Scaled SAR(W/kg)	Product Specific 10-g SAR SAR Exclusion
	Hotspot Test data(Separate 10mm 1RB)										
Front side	100	QPSK 1RB_137	654800/3822	1:1	0.080	0.11	15.34	24.50	8.241	0.659	Yes
Back side	100	QPSK 1RB_137	654800/3822	1:1	0.126	-0.19	15.34	24.50	8.241	1.038	Yes
Left side	100	QPSK 1RB_137	654800/3822	1:1	0.049	0.00	15.34	24.50	8.241	0.404	Yes
Top side	100	QPSK 1RB_137	654800/3822	1:1	0.186	-0.09	15.34	24.50	8.241	1.533	No
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135RB_0	652400/3786	1:1	0.077	-0.04	15.36	24.50	8.204	0.632	Yes
Back side	100	QPSK 135RB_0	652400/3786	1:1	0.134	-0.19	15.36	24.50	8.204	1.099	Yes
Left side	100	QPSK 135RB_0	652400/3786	1:1	0.047	-0.12	15.36	24.50	8.204	0.386	Yes
Top side	100	QPSK 135RB_0	652400/3786	1:1	0.198	-0.19	15.36	24.50	8.204	1.624	No
Hotspot Test data at the worst case with Battery2#(Separate 10mm 1RB)											
Top side	100	QPSK 135RB_0	652400/3786	1:1	0.172	-0.04	15.36	24.50	8.204	1.411	No



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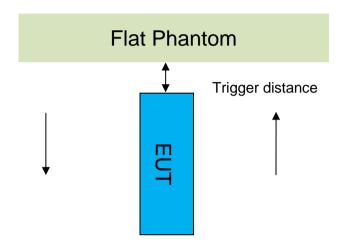
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5.1 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

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



Proximity Sensor Triggering Distance(mm)						
Antenna	Ant1	Ant10	Ant3	Ant4		
Band	WCDMA B2/4 LTE B2/4/7/38/41 LTE B7(EN_DC) 5G NR n7/38/41	LTE B4/7 LTE B7(EN_DC) 5G NR n5/7	5G NR n77	WCDMA B2/4 LTE B2/4/7/38/41/66 LTE B7(EN_DC) 5G NR n7/38/41		
Position	Front/Back/Bottom/Right		Front/Top			
Minimum	16	6	6			
Required SAR Test	15	5	5			

Note:

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



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DUT Moving Toward(Trigger)the Phantom





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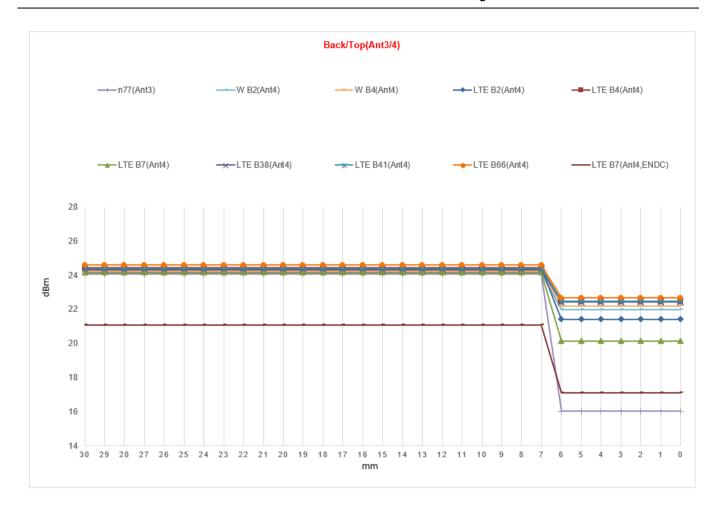
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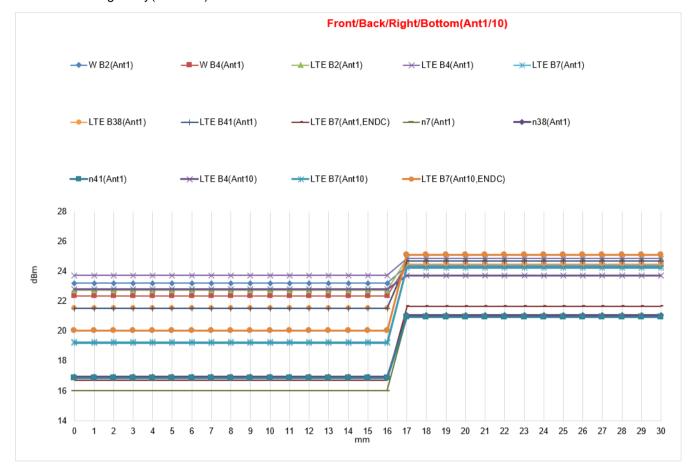
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DUT Moving Away(Release) from the Phantom





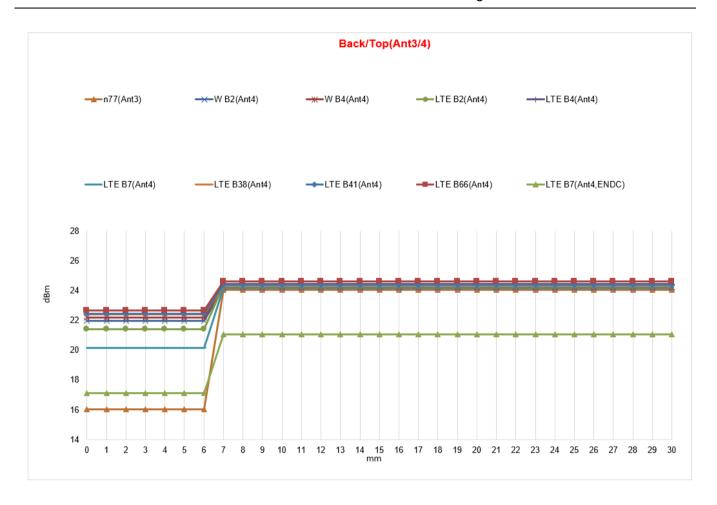
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Proximity sensor coverage

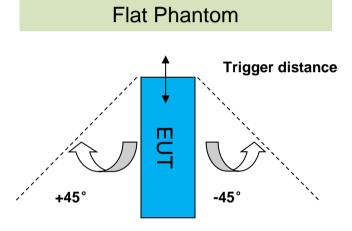
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing,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

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

Device tilt angle influences to proximity sensor triggering

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

Rotating the tablet around the edge next to the phantom in ≤ 10° increments until the tablet is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



	Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side																
	Minimum trigger	Minimum trigger distance at which				Pow	er Rec	luction	Statu	S							
MHz)	Band distance Per	power reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	25° 35° 45					
Ant1/Ant10	Right side:16mm Bottom side:16mm	Right side:16mm Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on				
Ant3/Ant4	Top side:6mm	Top side:6mm	on	on	on	on	on	on	on	on	on	on	on				



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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SAR System Verification Procedure

Tissue Simulate Liquid 6.1

Recipes for Tissue Simulate Liquid

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

	<u> </u>		<u> </u>						
Ingredients	Frequency (MHz)								
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700				
Water	38.56	40.30	55.24	55.00	54.92				
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23				
Sucrose	56.32	57.90	0	0	0				
HEC	0.98	0.24	0	0	0				
Bactericide	0.19	0.18	0	0	0				
Tween	0	0	44.45	44.80	44.85				

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

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

Recipe of Tissue Simulate Liquid Table 3:



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6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measured	Target Tiss	ue (±5%)	Measure	d Tissue	Liquid	
Tissue Type	Frequency (MHz)	ε _r	σ(S/m)	ε _r	σ(S/m)	Temp.(°C)	Measured Date
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.495	0.884	22.1	2021/2/2
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.762	0.938	22.1	2021/2/1
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.753	0.936	22.1	2021/2/2
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.763	0.934	22.1	2021/2/3
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	43.118	0.916	22.1	2021/2/12
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.271	1.309	22.2	2021/2/4
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.159	1.332	22.2	2021/2/6
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	38.467	1.328	22.2	2021/2/10
1900 Head	1900	40 (38.00~42.00)	1.4 (1.33~1.47)	39.973	1.376	22.3	2021/2/4
1900 Head	1900	40 (38.00~42.00)	1.4 (1.33~1.47)	39.564	1.414	22.3	2021/2/5
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.410	1.797	22.0	2021/2/17
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.388	2.000	22.1	2021/2/7
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.860	1.968	22.1	2021/2/8
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.491	1.948	22.1	2021/2/9
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.385	2.000	22.1	2021/2/11
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.790	1.967	22.1	2021/2/13
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.858	1.946	22.1	2021/2/14
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.658	1.982	22.1	2021/2/15
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.105	3.043	21.9	2021/2/16
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.395	3.255	22.1	2021/2/16
5250Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	35.669	4.658	22.2	2021/2/18
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	34.801	5.037	22.2	2021/2/18
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.621	5.229	22.2	2021/2/18

Table 4: Measurement result of Tissue electric parameters



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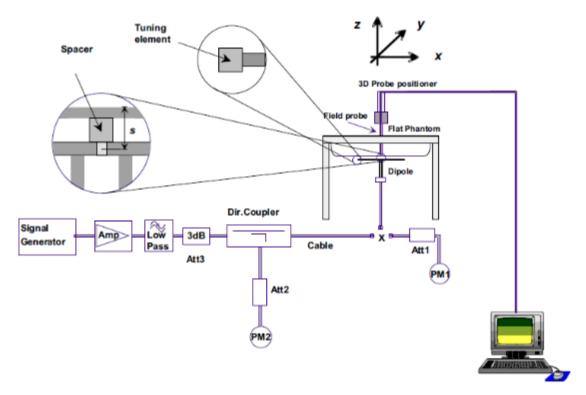


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6.2 SAR System Check

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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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value:
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Valida	tion Kit	Measured SAR 250mW 1g (W/kg)	Measured SAR 250mW 10g (W/kg)	Measured SAR (normalized to 1W) 1g (W/kg)	Measured SAR (normalized to 1W) 10g (W/kg)	Target SAR (normalized to 1W) (±10%) 1-g(W/kg)	Target SAR (normalized to 1W) (±10%) 10-g(W/kg)	Liquid Temp. (°C)	Measured Date
D750V2	Head	2.14	1.38	8.56	5.52	8.39 (7.55~9.23)	5.63 (5.07~6.19)	22.1	2021/2/2
D835V2	Head	2.46	1.61	9.84	6.44	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021/2/1
D835V2	Head	2.61	1.70	10.44	6.80	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021/2/2
D835V2	Head	2.61	1.70	10.44	6.80	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021/2/3
D835V2	Head	2.59	1.72	10.36	6.88	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.1	2021/2/12
D1750V2	Head	9.11	4.84	36.44	19.36	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021/2/4
D1750V2	Head	9.25	4.92	37.00	19.68	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021/2/6
D1750V2	Head	9.48	5.03	37.92	20.12	36.3 (32.67~39.93)	19.2 (17.28~21.12)	22.2	2021/2/10
D1900V2	Head	10.20	5.27	40.80	21.08	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.3	2021/2/4
D1900V2	Head	10.50	5.40	42.00	21.60	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.3	2021/2/5
D2450V2	Head	13.40	6.29	53.60	25.16	51.9 (46.71~57.09)	23.8 (21.42~26.18)	22.0	2021/2/17
D2600V2	Head	13.80	6.14	55.20	24.56	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/7
D2600V2	Head	14.10	6.29	56.40	25.16	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/8
D2600V2	Head	14.00	6.23	56.00	24.92	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/9
D2600V2	Head	13.90	6.18	55.60	24.72	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/11
D2600V2	Head	13.80	6.17	55.20	24.68	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/13
D2600V2	Head	13.70	6.14	54.80	24.56	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/14
D2600V2	Head	14.00	6.25	56.00	25.00	56.8 (51.12~62.48)	24.9 (22.41~27.39)	22.1	2021/2/15
Valida	tion Kit	Measured SAR 100mW 1g (W/kg)	Measured SAR 100mW	Measured SAR (normalized to 1W) 1g (W/kg)	Measured SAR (normalized to 1W) 10g (W/kg)	Target SAR (normalized to 1W) (±10%) 1-g(W/kg)	Target SAR (normalized to 1W) (±10%) 10-g(W/kg)	Liquid Temp. (°C)	Measured Date
D3700V2	Head	6.22	2.27	62.20	22.70	67.8 (61.02~74.58)	24.7 (22.23~27.17)	21.9	2021/2/16
D3900V2	Head	6.96	2.49	69.60	24.90	71.1 (63.99~78.21)	24.6 (22.14~27.06)	22.1	2021/2/16
	Head (5.25GHz)	7.86	2.27	78.60	22.70	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.2	2021/2/18
D5GHzV2	Head (5.6GHz)	8.36	2.39	83.60	23.90	80 (72~88)	22.7 (20.43~24.97)	22.2	2021/2/18
Table	Head (5.75GHz)	7.76	2.21	77.60	22.10	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.2	2021/2/18

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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Test Configuration 7

7.1 **3G SAR Test Reduction Procedure**

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

7.2 **Operation Configurations**

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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

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

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



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7.2.2 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA / DC-HSDPA

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

a) **HSDPA**

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



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: \triangle ACK. \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

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

7 (Ahs=24/15) with βhs=24/15*βc.

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

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



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

Table 7: **HSDPA UE category**

b) HSUPA

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



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Sub -test₽	βορ	βd₽	βd (SF)φ	β₀∕β⋴ℴ	β _{hs} (1)+³	β _{ec+} 2	$\beta_{\text{ed}} \varphi$	β _e _{e+1} (SF)+1	βed↔ (code	CM ⁽ 2)↔ (dB)↔	MP R↓ (dB)↓	AG(4)+/ Inde x+/	E- TFC I+
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(64₽	11/15(3)43	22/15₽	209/22 5₽	1039/225	4 0	1₽	1.04	0.0	20₽	75₽
20	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15	94/75₽	4 0	1₽	3.0₽	2.0₽	12 ₀	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	150	920
40	2/15₽	15/15∉	64₽	2/15₽	4/15₽	2/150	56/75₽	4₽	1₽	3.0∉	2.0₽	17₽	71₽
5₽	15/15(4)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	40	1₽	1.0₽	0.0₽	21	81₽

 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ \triangle ACK, \triangle NACK and \triangle CQI = 8 $\beta_{hs} = 30/15 * \beta_{e4}$

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 β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ μ

Note 4: For subtest 5 the β_o/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

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 8: Subtests for UMTS Release 6 HSUPA

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

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

Table 9: HSUPA UE category



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c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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



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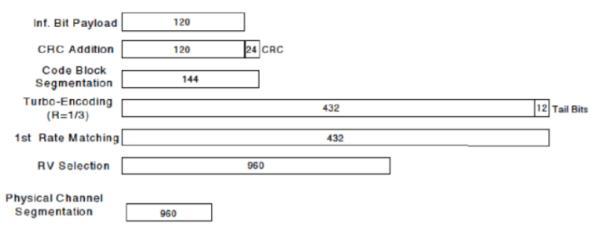


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test₽	β _c ₽	$\beta_{d^{e^2}}$	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	β _{hs} .(1)₽	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)₽	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

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

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

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

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



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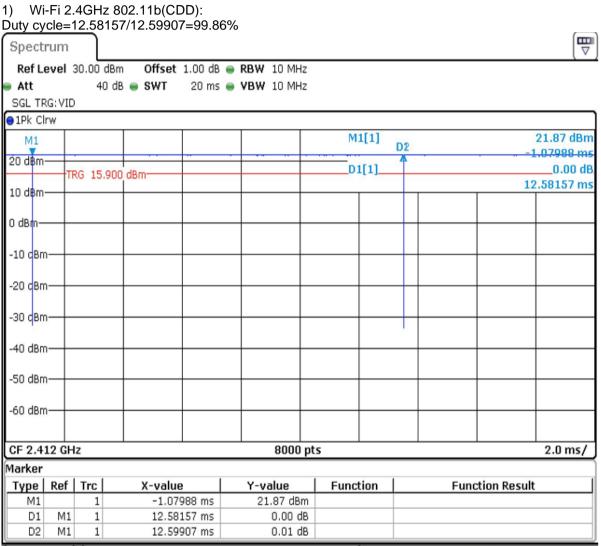
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7.2.3 WiFi Test Configuration

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

7.2.3.1 Duty cycle





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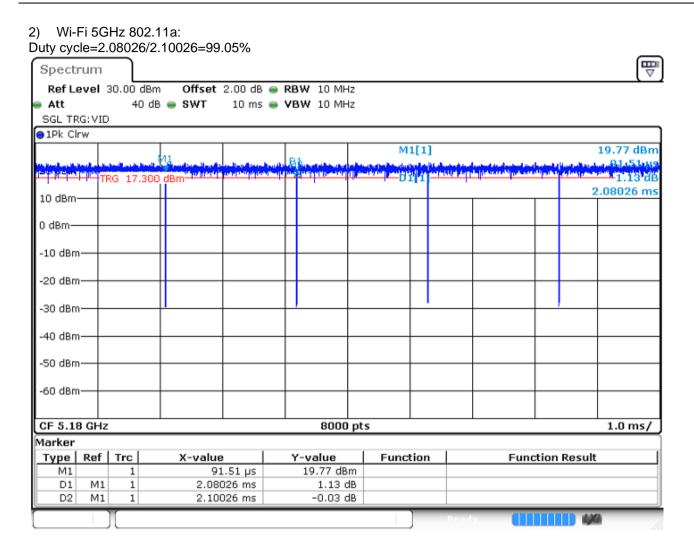
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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3 Initial Test Configuration Procedures

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

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

7.2.3.4 Subsequent Test Configuration Procedures

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

 When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.



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2). When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

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



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7.2.3.5 2.4 GHz WiFi SAR Procedures

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

802.11b DSSS SAR Test Requirements

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

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

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

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

SAR Test Requirements for OFDM configurations

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



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7.2.3.6 5 GHz WiFi SAR Procedures

U-NII-1 and U-NII-2A Bands

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

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

U-NII-2C and U-NII-3 Bands

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

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



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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

SAR Test Requirements for OFDM configurations

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



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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8821C 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.

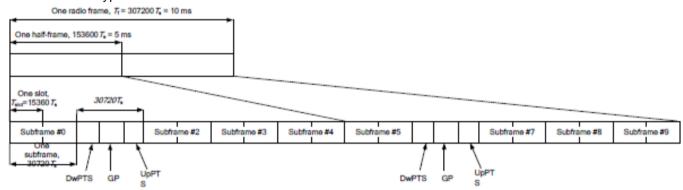
TDD LTE test consideration

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

Comigaration	or special subi	Tarric (Icrigins of I	JWF 13/GF/UPF 13	<i>)</i> .				
Special	Norr	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
subframe	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	2192.18			
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4004 To	5420 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.

Spirite do William Co												
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	J	D	D	S	U	U	D	
2	5 ms	D	S	U	D	D	D	S	U	D	D	
3	10 ms	D	S	U	U	U	D	D	D	D	D	
4	10 ms	D	S	U	U	D	D	D	D	D	D	
5	10 ms	D	S	U	D	D	D	D	D	D	D	
6	5 ms	D	S	U	J	U	D	S	U	U	D	

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

Uplink- Downlink Configurat	Downlink-to- Uplink Switch- point Periodicity		Subframe Number						Calculated Duty Cycle (%)			
ion	point i oriodioity	0	1	2	3	4	5	6	7	8	9	Gy 0.0 (70)
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channe	MPR (dB)					
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 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
256 QAM				≥ 1	-		≤ 5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 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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7.2.5 NR Band Test Configuration

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

Pon	Band/Antenna		15	n7				
Danu/Antenna		Ant2	Ant10	Ant1	Ant4	Ant8	Ant10	
LTE B5	Ant2			V	٧	V	V	
LIE B5	Ant10			V	V	V		
	Ant1	V	V					
LTC D7	Ant4	V	V					
LTE B7	Ant8	V	V					
	Ant10	v	V					

The general information supported by the NR hand is as following table:

	Band		n5	n7	n38	n41	n77
NR mo	do	SA	Yes	Yes	Yes	Yes	Yes
INK MO	ue	NSA	Yes	Yes	N/A	N/A	N/A
		PI/2 BPSK	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes
	DFT-s-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes
Modulation		256QAM	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes
	CF-OFDINI	64QAM	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes
Duty Cycle			100%	100%	100%	100%	100%

Band	SCS							Bandwic	dth					
Dallu	303	5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
»E	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
117	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1130	30KHZ	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1141	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n77	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11//	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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

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



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4. MPR

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

O.Z.Z dilder Tuble O.Z	''				
Modul	otion		MPR (dB)		
Modul	alion	Edge RB allocations	Outer RB allocations	Inner RB allocations	
	PI/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹	
	PI/Z DPSK	≤ 0.5 ²	≤ 0.5 ²	02	
DFT-s-OFDM	QPSK	≤	1	0	
	16 QAM	≤	≤ 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 n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.
- NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.
- 5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.
- 6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:
 - 1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)
- a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.
- b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be ≤ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.
- 7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.
- 8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.
- 9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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Test Result

8.1 Measurement of RF conducted Power

Note: The detailed conducted power table can refer to Appendix E.

8.1.1 Conducted Power of GSM

Note:

1) . CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: 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 > ½ dB, instead of the middle channel, the highest output power channel must be used

8.1.2 Conducted Power of WCDMA

Note:

when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

8.1.3 Conducted Power of LTE



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8.1.4 Conducted Power of Uplink & Downlink LTE CA

The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion. 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.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C were used.

8.1.4.1 Conducted Power of uplink LTE CA

Note:

- 1) This device supports uplink carrier aggregation for LTE CA_7C, CA_38C with a maximum of two 20MHz component carriers.
- 2) 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.
- 3) 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.
- 4) Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.



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8.1.4.2 Conducted Power of Downlink LTE CA

In this section, the following 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. Power test equipment: Anritsu Radio Communication Analyzer MT8821C

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 below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that

require power measurements are highlighted in the table as below:

1 Band / 2CC	2 Band / 2CC	2 Band / 3CC	2 Band / 4CC	3 Band / 3CC	3 Band / 4CC	3 Band / 5CC
CA_2C						
CA_7A-7A		CA_5A-7A-7A				
CA_7C						CA_5A-7C-66A-66A
CA_38C						
CA_41A-41A						
CA_66A-66A					CA_5A-7A-66A-66A	
	CA_2A-4A				CA_2A-4A-7C	
	CA_2A-5A			CA_2A-4A-5A		
	CA_2A-7A			CA_2A-4A-7A		
		CA_2A-7C			CA_2A-4A-7C	
	CA_4A-5A			CA_2A-4A-5A		
	CA_4A-7A			CA_2A-4A-7A		
	CA_5A-7A				CA_5A-7A-66A-66A	
	CA_5A-66A				CA_5A-7A-66A-66A	
				CA_2A-4A-5A		
				CA_2A-4A-7A		
		CA_2A-7A-7A				
		CA_4A-7C			CA_2A-4A-7C	
				CA_5A-7A-66A	CA_5A-7A-66A-66A	
		CA_5A-7C				CA_5A-7C-66A-66A
		CA_5A-66A-66A			CA_5A-7A-66A-66A	
				CA_7A-66A-66A	CA_5A-7A-66A-66A	
					CA_2A-4A-7C	
					CA_5A-7A-66A-66A	
					CA_5A-7C-66A	CA_5A-7C-66A-66A
			CA_7C-66A-66A			CA_5A-7C-66A-66A
						CA_5A-7C-66A-66A

Note:

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.



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8.1.5 Conducted Power of WIFI

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) 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.
- c) 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.



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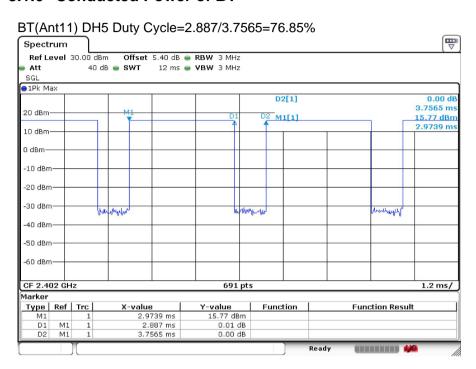
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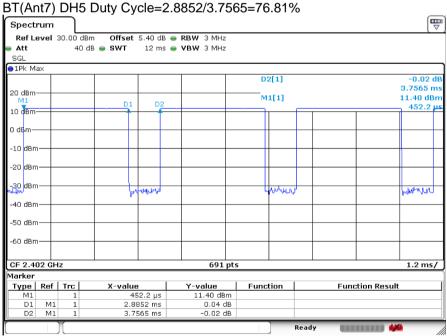


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8.1.6 Conducted Power of BT





Note:

1)The conducted power of BT is measured with RMS detector.



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq.	Frequency	Position	Average Power		Test Separation	Calculate	Exclusion	Exclusion
Band	(GHz)		dBm	mW	(mm)	Value	Threshold	(Y/N)
)A/: F:		Head	21.5	141.25	5	44.42	3	N
Wi-Fi 2.4G	2.472	Body-worn	23.5	223.87	15	23.47	3	N
2.40		Hotspot	22.5	177.83	10	27.96	3	Ν
		Head	21.0	125.89	5	60.90	3	N
Wi-Fi 5G	5.850	Body-worn	23.5	223.87	15	36.10	3	Ν
		Hotspot	22.5	177.83	10	43.01	3	Ν
		Head	16.0	39.81	5	12.54	3	N
Bluetooth	2.48	Body-worn	16.0	39.81	15	4.18	3	N
		Hotspot	16.0	39.81	10	6.27	3	N

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-q or 10-q 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 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

WiFi 2.4G:

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

WiFi 5G:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot
- When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.1 SAR Result of GSM850

				Ant2 T	est Record					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data					
Left cheek	GSM	190/836.6	1:8.3	0.173	0.03	31.13	32.50	1.371	0.237	22.1
Left tilted	GSM	190/836.6	1:8.3	0.123	-0.07	31.13	32.50	1.371	0.169	22.1
Right cheek	GSM	190/836.6	1:8.3	0.382	-0.08	31.13	32.50	1.371	0.524	22.1
Right tilted	GSM	190/836.6	1:8.3	0.257	0.13	31.13	32.50	1.371	0.352	22.1
			Head Te	st Data at the	worst case	with Battery2#				
Right cheek	GSM	190/836.6	1:8.3	0.368	0.09	31.13	32.50	1.371	0.504	22.1
			Boo	dy worn Test	data(Separa	te 15mm)				
Front side	GSM	190/836.6	1:8.3	0.069	0.00	33.21	34.50	1.346	0.093	22.1
Back side	GSM	190/836.6	1:8.3	0.077	-0.17	33.21	34.50	1.346	0.104	22.1
	-	Body wo	rn Test data	a at the worst	case with B	attery2#(Separ	ate 15mm)			
Back side	GSM	190/836.6	1:8.3	0.071	0.01	33.21	34.50	1.346	0.096	22.1
			Ho	otspot Test da	ata(Separate	e 10mm)				
Front side	GPRS 4TS	190/836.6	1:2.075	0.074	0.15	24.77	26.50	1.489	0.110	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.086	-0.08	24.77	26.50	1.489	0.128	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.100	-0.01	24.77	26.50	1.489	0.149	22.1
Top side	GPRS 4TS	190/836.6	1:2.075	0.044	0.16	24.77	26.50	1.489	0.066	22.1
•				at the worst of	ase with Ba	ttery2#(Separa				
Left side	GPRS 4TS	190/836.6	1:2.075	0.093	0.06	24.77	26.50	1.489	0.139	22.1
				Ant10	Test Record	ı				
	Tool	T1	Desta	SAR	Power	Conducted	Tune up	Caalad	Scaled	Liannial
Test position	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg) 1-g	Drift (dB)	Power (dBm)	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
					Test data	(0.2)	(42)		(11,119)	
Left cheek	GSM	190/836.6	1:8.3	0.070	0.02	33.04	34.00	1.247	0.087	22.1
Left tilted	GSM	190/836.6	1:8.3	0.028	0.16	33.04	34.00	1.247	0.035	22.1
Right cheek	GSM	190/836.6	1:8.3	0.056	0.03	33.04	34.00	1.247	0.070	22.1
Right tilted	GSM	190/836.6	1:8.3	0.034	-0.03	33.04	34.00	1.247	0.042	22.1
rtight tiltou	00	100/000.0				with Battery2#			0.0 12	
Left cheek	GSM	190/836.6	1:8.3	0.066	0.13	33.04	34.00	1.247	0.082	22.1
Lort ondoit	00	100/000.0		y worn Test			01.00		0.002	
Front side	GSM	190/836.6	1:8.3	0.083	0.02	33.04	34.00	1.247	0.104	22.1
Back side	GSM	190/836.6	1:8.3	0.127	0.17	33.04	34.00	1.247	0.158	22.1
Back side	COM					attery2#(Separ		1.277	0.100	22.1
Back side	GSM	190/836.6	1:8.3	0.121	0.14	33.04	34.00	1.247	0.151	22.1
Back side	COM	100/000.0		otspot Test da	_		04.00	1.277	0.101	22.1
Front side	GPRS 4TS	190/836.6	1:2.075	0.151	0.11	26.79	28.00	1.321	0.200	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.205	-0.13	26.79	28.00	1.321	0.271	22.1
Right side	GPRS 4TS	190/836.6	1:2.075	0.046	-0.05	26.79	28.00	1.321	0.061	22.1
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.103	0.06	26.79	28.00	1.321	0.136	22.1
			1.2.010	0.100	0.00	20.70	20.00	1.021	0.100	<i></i>
Dottom side	01110110	Hotspo	t Test data	at the worst o	ase with Ba	ttery2#(Separa	te 10mm)			
Back side	GPRS 4TS	Hotspo 190/836.6	t Test data 1:2.075	at the worst of	ase with Ba	ttery2#(Separa 26.79	te 10mm) 28.00	1.321	0.262	22.1

Table 11: SAR of GSM850 for Head and Body



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8.3.2 SAR Result of GSM1900

				Ant1 T	est Record					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
	•				Test data	<u> </u>	, ,			
Left cheek	GSM	661/1880	1:8.3	0.035	0.03	30.11	31.00	1.227	0.043	22.3
Left tilted	GSM	661/1880	1:8.3	0.021	0.01	30.11	31.00	1.227	0.026	22.3
Right cheek	GSM	661/1880	1:8.3	0.032	0.02	30.11	31.00	1.227	0.039	22.3
Right tilted	GSM	661/1880	1:8.3	0.021	-0.14	30.11	31.00	1.227	0.026	22.3
			Head Test	t Data at the	worst case	with Battery2#				
Left cheek	GSM	661/1880	1:8.3	0.031	0.11	30.11	31.00	1.227	0.038	22.3
			Body	worn Test	data(Separa	te 15mm)				
Front side	GSM	661/1880	1:8.3	0.094	-0.16	30.11	31.00	1.227	0.116	22.3
Back side	GSM	661/1880	1:8.3	0.161	-0.13	30.11	31.00	1.227	0.198	22.3
		Body wor		at the worst		attery2#(Separ				
Back side	GSM	661/1880	1:8.3	0.152	0.15	30.11	31.00	1.227	0.187	22.3
			Hot	spot Test da	ita(Separate	e 10mm)				
Front side	GPRS 4TS	661/1880	1:2.075	0.200	-0.02	23.96	25.00	1.271	0.254	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.265	-0.05	23.96	25.00	1.271	0.337	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.081	-0.06	23.96	25.00	1.271	0.103	22.3
Bottom side	GPRS 4TS	661/1880	1:2.075	0.355	-0.05	23.96	25.00	1.271	0.451	22.3
		Hotspot	Test data a	t the worst c	ase with Ba	ttery2#(Separa				
Bottom side	GPRS 4TS	661/1880	1:2.075	0.342	0.18	23.96	25.00	1.271	0.435	22.3
					est Record					
	Toot	Tant		SAR	Power	Conducted	Tune up		Scaled	
		IPST	I DiitV	_			•	Scaled		Liamid
Test position	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg)	Drift	Power	Limit	Scaled factor	SAR	Liquid Temp
Test position				1-g	Drift (dB)		•		SAR (W/kg)	
•	mode	Ch./Freq.	Cycle	1-g Head	Drift (dB) Test data	Power (dBm)	Limit (dBm)	factor	(W/kg)	Temp
Left cheek	mode GSM	Ch./Freq. 661/1880	1:8.3	1-g Head 0.272	Drift (dB) Test data 0.01	Power (dBm) 30.18	Limit (dBm) 31.50	factor 1.355	(W/kg) 0.369	Temp 22.3
Left cheek Left tilted	GSM GSM	Ch./Freq. 661/1880 661/1880	1:8.3 1:8.3	1-g Head 0.272 0.319	Drift (dB) Test data 0.01 0.16	90wer (dBm) 30.18 30.18	Limit (dBm) 31.50 31.50	1.355 1.355	0.369 0.432	22.3 22.3
Left cheek Left tilted Right cheek	GSM GSM GSM	661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497	Drift (dB) Test data 0.01 0.16 -0.15	90.18 30.18 30.18 30.18	31.50 31.50 31.50	1.355 1.355 1.355	0.369 0.432 0.674	22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted	GSM GSM GSM GSM	661/1880 661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497 0.647	Drift (dB) Test data 0.01 0.16 -0.15 -0.16	90.18 30.18 30.18 30.18 30.18	31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355	0.369 0.432 0.674 0.877	22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted	GSM GSM GSM GSM GSM GSM	661/1880 661/1880 661/1880 661/1880 512/1850.2	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09	30.18 30.18 30.18 30.18 30.18 30.30	31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318	0.369 0.432 0.674 0.877 0.784	22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted	GSM GSM GSM GSM	661/1880 661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06	30.18 30.18 30.18 30.18 30.18 30.30 30.30	31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355	0.369 0.432 0.674 0.877	22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted	GSM GSM GSM GSM GSM GSM	Ch./Freq. 661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tesi	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case	30.18 30.18 30.18 30.18 30.30 30.15 with Battery2#	31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365	0.369 0.432 0.674 0.877 0.784 0.730	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted	GSM GSM GSM GSM GSM GSM	661/1880 661/1880 661/1880 661/1880 512/1850.2	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tesi 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13	30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18	31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318	0.369 0.432 0.674 0.877 0.784	22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	GSM GSM GSM GSM GSM GSM GSM GSM GSM	Ch./Freq. 661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tesi 1:8.3 Body	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa	30.18 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm)	Limit (dBm) 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365	0.369 0.432 0.674 0.877 0.784 0.730	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	GSM GSM GSM GSM GSM GSM GSM GSM GSM	Ch./Freq. 661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Body 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa	30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18	Limit (dBm) 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	GSM GSM GSM GSM GSM GSM GSM GSM GSM	Ch./Freq. 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Body 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069 0.097	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa 0.02 -0.15	30.18 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18	Limit (dBm) 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365	0.369 0.432 0.674 0.877 0.784 0.730	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted	GSM	Ch./Freq. 661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Test 1:8.3 Body 1:8.3 1:8.3 n Test data	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069 0.097 at the worst	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa 0.02 -0.15 case with B	30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18 30.18 attery2#(Separ	31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	GSM GSM GSM GSM GSM GSM GSM GSM GSM	Ch./Freq. 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Test 1:8.3 Body 1:8.3 1:8.3 n Test data 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069 0.097 at the worst 0.092	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa 0.02 -0.15 case with B 0.16	90.18 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18 30.18 attery2#(Separ	Limit (dBm) 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Back side Back side	GSM	Ch./Freq. 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Test 1:8.3 Body 1:8.3 1:8.3 n Test data 1:8.3 Hot	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069 0.097 at the worst 0.092 spot Test da	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separaa 0.02 -0.15 case with B 0.16 tata(Separate	Power (dBm) 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18 attery2#(Separ 30.18	31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Back side Back side Front side	GSM	Ch./Freq. 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Test 1:8.3 Body 1:8.3 1:8.3 n Test data 1:8.3 Hot 1:2.075	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069 0.097 at the worst 0.092 spot Test da 0.121	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separate 0.02 -0.15 case with B 0.16 ta(Separate -0.12	Power (dBm) 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18 attery2#(Separ 30.18 attery2#(Separ 30.18	31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side	GSM	Ch./Freq. 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor 661/1880 661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tesi 1:8.3 Body 1:8.3 1:8.3 n Test data 1:8.3 Hot 1:2.075	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.069 0.097 at the worst 0.092 spot Test da 0.121 0.201	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separate 0.02 -0.15 case with B 0.16 ta(Separate -0.12 -0.01	Power (dBm) 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 30.18 30.18 attery2#(Separ 30.18) attery2#(Separ 30.18)	31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 25.50 25.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355 1.355 1.355 1.357	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131 0.125	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side Left side	GSM	661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor 661/1880 661/1880 661/1880 661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tes' 1:8.3 Body 1:8.3 1:8.3 n Test data 1:8.3 Hot 1:2.075 1:2.075	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.099 at the worst 0.092 spot Test da 0.121 0.201 0.014	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa 0.02 -0.15 case with B 0.16 data(Separate -0.12 -0.01 0.15	Power (dBm) 30.18 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18 attery2#(Separ 30.18)	Limit (dBm) 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 25.50 25.50 25.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355 1.355 1.355 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131 0.125	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side	GSM	661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor 661/1880 661/1880 661/1880 661/1880 661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tes' 1:8.3 Body 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.099 at the worst 0.092 spot Test da 0.121 0.201 0.014 0.240	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa 0.02 -0.15 case with B 0.16 dta(Separate -0.12 -0.01 0.15 -0.02	Power (dBm) 30.18 30.18 30.18 30.18 30.18 30.15 with Battery2# 30.18 te 15mm) 30.18 attery2#(Separ 30.18)	31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 25.50 25.50 25.50 25.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355 1.355 1.355 1.357	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131 0.125	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side Left side	GSM	661/1880 661/1880 661/1880 661/1880 512/1850.2 810/1909.8 661/1880 661/1880 Body wor 661/1880 661/1880 661/1880 661/1880 661/1880 661/1880 661/1880	1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 Head Tes' 1:8.3 Body 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3 1:8.3	1-g Head 0.272 0.319 0.497 0.647 0.595 0.535 t Data at the 0.621 worn Test of 0.099 at the worst 0.092 spot Test da 0.121 0.201 0.014 0.240	Drift (dB) Test data 0.01 0.16 -0.15 -0.16 -0.09 -0.06 worst case 0.13 data(Separa 0.02 -0.15 case with B 0.16 dta(Separate -0.12 -0.01 0.15 -0.02	Power (dBm) 30.18 30.18 30.18 30.18 30.18 30.30 30.15 with Battery2# 30.18 te 15mm) 30.18 attery2#(Separ 30.18)	31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 31.50 25.50 25.50 25.50 25.50	1.355 1.355 1.355 1.355 1.355 1.318 1.365 1.355 1.355 1.355 1.355 1.355	0.369 0.432 0.674 0.877 0.784 0.730 0.842 0.093 0.131 0.125	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3

Table 12: SAR of GSM1900 for Head and Body.



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8.3.3 SAR Result of WCDMA Band II

				Ant1	Test Record					
	Test	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	mode	Ch./Freq.	Cycle	(W/kg)	Drift	Power	Limit	factor	SAR	Temp
	modo	0111711041	0,0.0	1-g	(dB)	(dBm)	(dBm)	luotoi	(W/kg)	10
1 6 1 1	DMO	0.400/4000			d Test data	04.00	05.00	4.450	0.400	00.0
Left cheek	RMC	9400/1880	1:1	0.094	-0.01	24.36	25.00	1.159	0.109	22.3
Left tilted	RMC	9400/1880	1:1	0.079	-0.06	24.36	25.00	1.159	0.092	22.3
Right cheek	RMC	9400/1880	1:1	0.104	0.05	24.36	25.00	1.159	0.121	22.3
Right tilted	RMC	9400/1880	1:1	0.075	-0.16	24.36	25.00	1.159	0.087	22.3
Right cheek	RMC	9400/1880	1:1	0.098	-0.03	with Battery2# 24.36	25.00	1.159	0.114	22.3
Right Cheek	RIVIC	9400/1000			data(Separa		25.00	1.159	0.114	22.3
Front side	RMC	9400/1880	1:1	0.223	0.07	24.36	25.00	1.159	0.258	22.3
Back side	RMC	9400/1880	1:1	0.223	0.07	24.36	25.00	1.159	0.238	22.3
Dack side	IXIVIC	Body wor				Battery2#(Sepa		1.153	0.473	22.5
Back side	RMC	9400/1880	1:1	0.402	0.06	24.36	25.00	1.159	0.466	22.3
Dack side	TUVIO	3400/1000			ata(Separat		20.00	1.100	0.400	22.0
Front side	RMC	9400/1880	1:1	0.338	-0.07	23.21	24.00	1.199	0.405	22.3
Back side	RMC	9400/1880	1:1	0.484	0.14	23.21	24.00	1.199	0.581	22.3
Left side	RMC	9400/1880	1:1	0.092	-0.16	23.21	24.00	1.199	0.110	22.3
Bottom side	RMC	9400/1880	1:1	0.773	-0.15	23.21	24.00	1.199	0.927	22.3
Bottom side	RMC	9262/1852.4	1:1	0.754	-0.05	23.24	24.00	1.191	0.898	22.3
Bottom side	RMC	9538/1907.6	1:1	0.755	0.01	23.33	24.00	1.167	0.881	22.3
					case with Ba	ttery2#(Separa				
Bottom side	RMC	9400/1880	1:1	0.740	0.03	23.21	24.00	1.199	0.888	22.3
				Ant4	Test Record					
				AIILT	COL INCOOLG					
	Tost	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	Test	Test Ch./Freg.	Duty Cycle	SAR (W/kg)	Power Drift	Conducted Power	Limit	Scaled factor	SAR	Liquid Temp
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted		Scaled factor		Liquid Temp
	mode	Ch./Freq.	Cycle	SAR (W/kg) 1-g Head	Power Drift (dB) Test data	Conducted Power (dBm)	Limit (dBm)	factor	SAR (W/kg)	Temp
Left cheek	mode RMC	Ch./Freq. 9400/1880	Cycle 1:1	SAR (W/kg) 1-g Head 0.287	Power Drift (dB) Test data -0.03	Conducted Power (dBm)	Limit (dBm)	factor 1.262	SAR (W/kg)	Temp 22.3
Left cheek Left tilted	RMC RMC	9400/1880 9400/1880	1:1 1:1	SAR (W/kg) 1-g Head 0.287 0.431	Power Drift (dB) d Test data -0.03 -0.12	Conducted Power (dBm) 19.99	Limit (dBm) 21.00 21.00	1.262 1.262	SAR (W/kg) 0.362 0.544	22.3 22.3
Left cheek Left tilted Right cheek	RMC RMC RMC	9400/1880 9400/1880 9400/1880	1:1 1:1 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506	Power Drift (dB) Test data -0.03 -0.12 -0.01	Conducted Power (dBm) 19.99 19.99	21.00 21.00 21.00	1.262 1.262 1.262	0.362 0.544 0.638	22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted	RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751	Power Drift (dB) D Test data -0.03 -0.12 -0.01 -0.02	Conducted Power (dBm) 19.99 19.99 19.99	21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948	22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted	RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4	1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617	Power Drift (dB) Test data -0.03 -0.12 -0.01 -0.02 -0.10	19.99 19.99 19.99 19.99 19.87	21.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.262 1.297	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800	22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted	RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571	Power Drift (dB) Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09	19.99 19.99 19.99 19.99 19.87 19.92	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948	22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6	1:1 1:1 1:1 1:1 1:1 1:1 Head Te	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the	Power Drift (dB) Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 worst case	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2#	Limit (dBm) 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted	RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2#	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.262 1.297	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800	22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test	Power Drift (dB) Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm)	Limit (dBm) 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181	Power Drift (dB) Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 worst case 0.03 data(Separa	19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.92 with Battery2# 19.99 ate 15mm) 24.17	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927	Temp 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.09 e worst case 0.03 data(Separa 0.01 -0.09	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Right side Back side	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880 Body wo	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1 1:1 rn Test data	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 at the wors	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17 24.17 Battery2#(Sepa	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 rate 15mm)	1.262 1.262 1.262 1.262 1.262 1.297 1.282 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338	Temp 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1 1:1 rn Test data 1:1	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 at the wors	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E -0.01	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17 24.17 Battery2#(Sepa	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927	Temp 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Back side Back side	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 Body wo 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1 1:1 The Test data 1:1 Ho	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 a at the wors 0.271 otspot Test d	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separat 0.01 -0.09 t case with E -0.01 ata(Separat	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17 24.17 Battery2#(Sepa 24.17 10mm)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 rate 15mm) 25.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282 1.262 1.211 1.211	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Back side Back side Front side	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880 Body wo	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1 1:1 The Test data 1:1 House Test data 1:1 House Test data	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 a at the wors 0.271 otspot Test d	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E -0.01	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17 24.17 Battery2#(Sepa 24.17 e 10mm) 19.99	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 rate 15mm)	1.262 1.262 1.262 1.262 1.262 1.297 1.282 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338 0.328	Temp 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Back side Front side Back side Front side Back side	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 Hin Test data 1:1 Hc 1:1 Hc	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 a at the wors 0.271 otspot Test d 0.129 0.224	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E -0.01 ata(Separat -0.05	19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17 24.17 Battery2#(Sepa 24.17 10mm)	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 rate 15mm) 25.00 21.00	1.262 1.262 1.262 1.262 1.297 1.282 1.262 1.211 1.211 1.211	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338 0.328	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Back side Front side Back side Front side Back side Left side	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 Body woi 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 Bod 1:1 1:1 The Test data 1:1 House Test data 1:1 House Test data	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 a at the wors 0.271 otspot Test d	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E -0.01 ata(Separat -0.05 -0.04	19.99 19.99 19.99 19.99 19.99 19.87 19.92 with Battery2# 19.99 ate 15mm) 24.17 24.17 3attery2#(Sepa 24.17 e 10mm) 19.99 19.99	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 rate 15mm) 25.00 21.00	1.262 1.262 1.262 1.262 1.262 1.297 1.282 1.262 1.211 1.211 1.211	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338 0.328 0.163 0.283 0.058	Z2.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Back side Front side Back side Front side Back side	RMC RMC RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 The Test data 1:1 House 1:1 Hous	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 a at the wors 0.271 otspot Test d 0.129 0.224 0.046 0.270	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E -0.01 ata(Separat -0.05 -0.04 0.16 -0.02	19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 14.17 24.17 3attery2#(Sepa 24.17 19.99 19.99 19.99 19.99	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 25.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.297 1.282 1.262 1.211 1.211 1.211 1.262 1.262 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338 0.328	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Back side Front side Back side Front side Back side Left side	RMC RMC RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9262/1852.4 9538/1907.6 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 The Test data 1:1 House 1:1 Hous	SAR (W/kg) 1-g Head 0.287 0.431 0.506 0.751 0.617 0.571 st data at the 0.735 y worn Test 0.181 0.279 a at the wors 0.271 otspot Test d 0.129 0.224 0.046 0.270	Power Drift (dB) d Test data -0.03 -0.12 -0.01 -0.02 -0.10 -0.09 e worst case 0.03 data(Separa 0.01 -0.09 t case with E -0.01 ata(Separat -0.05 -0.04 0.16 -0.02	19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 119.99 119.99 119.99 119.99 119.99 119.99 119.99	21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 25.00 25.00 25.00 21.00 21.00 21.00 21.00 21.00	1.262 1.262 1.262 1.262 1.297 1.282 1.262 1.211 1.211 1.211 1.262 1.262 1.262	SAR (W/kg) 0.362 0.544 0.638 0.948 0.800 0.732 0.927 0.219 0.338 0.328 0.163 0.283 0.058	Temp 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3

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



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8.3.4 SAR Result of WCDMA Band IV

					est Record					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data					
Left cheek	RMC	1412/1732.4	1:1	0.045	-0.12	24.45	25.00	1.135	0.051	22.2
Left tilted	RMC	1412/1732.4	1:1	0.032	-0.11	24.45	25.00	1.135	0.036	22.2
Right cheek	RMC	1412/1732.4	1:1	0.055	-0.03	24.45	25.00	1.135	0.062	22.2
Right tilted	RMC	1412/1732.4	1:1	0.033	0.13	24.45	25.00	1.135	0.037	22.2
			Head Tes	st data at the	worst case	with Battery2#				
Right cheek	RMC	1412/1732.4	1:1	0.048	0.11	24.45	25.00	1.135	0.054	22.2
			Bod	y worn Test	data(Separa	ite 15mm)				
Front side	RMC	1412/1732.4	1:1	0.136	-0.13	24.45	25.00	1.135	0.154	22.2
Back side	RMC	1412/1732.4	1:1	0.178	-0.02	24.45	25.00	1.135	0.202	22.2
		Body wo	rn Test data	at the wors	t case with E	Battery2#(Separ	rate 15mm)			
Back side	RMC	1412/1732.4	1:1	0.171	0.08	24.45	25.00	1.135	0.194	22.2
			Но	tspot Test d	ata(Separate	e 10mm)				
Front side	RMC	1412/1732.4	1:1	0.162	0.19	22.25	23.00	1.189	0.193	22.2
Back side	RMC	1412/1732.4	1:1	0.246	-0.03	22.25	23.00	1.189	0.292	22.2
Left side	RMC	1412/1732.4	1:1	0.053	0.16	22.25	23.00	1.189	0.063	22.2
Bottom side	RMC	1412/1732.4	1:1	0.407	-0.03	22.25	23.00	1.189	0.484	22.2
		Hotspot	t Test data a	at the worst	case with Ba	ittery2#(Separa	te 10mm)			
Bottom side	RMC	1412/1732.4	1:1	0.396	0.14	22.25	23.00	1.189	0.471	22.2
				An4 T	est Record					
	Test	Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Toot position	1621	1621	Duty	/\A//I\	D.::64	Dannan	Limit	Scaled	SAR	Liquid
Test position	mode	Ch./Freq.	Cycle	(W/kg) 1-q	Drift (dB)	Power (dBm)	(dBm)	factor		Temp
rest position	mode	Ch./Freq.	Cycle	1-g	(dB)			factor	(W/kg)	Temp
Left cheek	mode RMC	Ch./Freq.	Cycle 1:1	1-g				factor 1.216		•
•	RMC RMC	1412/1732.4 1412/1732.4		1-g Head	(dB) Test data	(dBm)	(dBm)		(W/kg)	22.2 22.2
Left cheek	RMC	1412/1732.4	1:1	1-g Head 0.293	(dB) Test data -0.08	(dBm) 19.15	(dBm) 20.00	1.216	(W/kg) 0.356	22.2
Left cheek Left tilted	RMC RMC	1412/1732.4 1412/1732.4	1:1 1:1	1-g Head 0.293 0.419	(dB) Test data -0.08 0.01	(dBm) 19.15 19.15	20.00 20.00	1.216 1.216	0.356 0.510	22.2 22.2
Left cheek Left tilted Right cheek	RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4	1:1 1:1 1:1	1-g Head 0.293 0.419 0.474	(dB) Test data -0.08 0.01 -0.02	19.15 19.15 19.15	20.00 20.00 20.00	1.216 1.216 1.216	0.356 0.510 0.576	22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted	RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4	1:1 1:1 1:1 1:1	1-g Head 0.293 0.419 0.474 0.697	(dB) Test data -0.08 0.01 -0.02 -0.18	19.15 19.15 19.15 19.15	20.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216	0.356 0.510 0.576 0.848	22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Right tilted	RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4	1:1 1:1 1:1 1:1 1:1 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10	19.15 19.15 19.15 19.15 19.15 19.12	20.00 20.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225	0.356 0.510 0.576 0.848 0.598	22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Right tilted	RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4	1:1 1:1 1:1 1:1 1:1 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10	19.15 19.15 19.15 19.15 19.15 19.12 19.17	20.00 20.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225	0.356 0.510 0.576 0.848 0.598	22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6	1:1 1:1 1:1 1:1 1:1 1:1 Head Te: 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa	19.15 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 ate 15mm)	20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211	0.356 0.510 0.576 0.848 0.598 0.705	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6	1:1 1:1 1:1 1:1 1:1 1:1 Head Tes	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11	19.15 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15	20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211	0.356 0.510 0.576 0.848 0.598 0.705	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6	1:1 1:1 1:1 1:1 1:1 1:1 Head Te: 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa	19.15 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 ate 15mm)	20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.216 1.225 1.211	0.356 0.510 0.576 0.848 0.598 0.705	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo	1:1 1:1 1:1 1:1 1:1 1:1 Head Te: 1:1 Bod 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02	19.15 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 te 15mm) 24.24	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 rate 15mm)	1.216 1.216 1.216 1.216 1.215 1.225 1.211 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted	RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4	1:1 1:1 1:1 1:1 1:1 1:1 Head Te: 1:1 Bod 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02	19.15 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 te 15mm) 24.24 24.24	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00	1.216 1.216 1.216 1.216 1.215 1.225 1.211 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted	RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo	1:1 1:1 1:1 1:1 1:1 1:1 Head Te: 1:1 Bod 1:1 1:1 rn Test data	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the wors	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with B	(dBm) 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 tte 15mm) 24.24 24.24 Battery2#(Separ 24.24 e 10mm)	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 ate 15mm) 25.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191	(W/kg) 0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted	RMC RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo 1412/1732.4	1:1 1:1 1:1 1:1 1:1 1:1 Head Ter 1:1 Bod 1:1 1:1 rn Test data 1:1 Ho	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the wors: 0.308 tspot Test d 0.117	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with B 0.03 ata(Separate 0.02	19.15 19.15 19.15 19.15 19.15 19.17 with Battery2# 19.15 te 15mm) 24.24 24.24 Battery2#(Sepan	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 25.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191 1.191	0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378 0.367	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side	RMC RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4	1:1 1:1 1:1 1:1 1:1 1:1 Head Ter 1:1 Bod 1:1 1:1 rn Test data 1:1 Ho	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the wors: 0.308 tspot Test d 0.117 0.206	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with B 0.03 ata(Separate	(dBm) 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 te 15mm) 24.24 24.24 Battery2#(Separ 24.24 e 10mm) 19.15 19.15	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191 1.191 1.216 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378 0.367	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side Left side	RMC RMC RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo 1412/1732.4	1:1 1:1 1:1 1:1 1:1 1:1 Head Tes 1:1 Bod 1:1 1:1 1:1 Trn Test data 1:1 Head Test 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the wors: 0.308 tspot Test d 0.117 0.206 0.041	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with B 0.03 ata(Separate 0.02 0.03 -0.05	(dBm) 19.15 19.15 19.15 19.15 19.17 with Battery2# 19.15 ste 15mm) 24.24 24.24 Battery2#(Separ 24.24 24.24 21.0mm) 19.15	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191 1.191 1.216 1.216 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378 0.367	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side	RMC RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Ter 1:1 Bod 1:1 1:1 The Test data 1:1 Ho 1:1 1:1 1:1 1:1 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the worst 0.308 ttspot Test d 0.117 0.206 0.041 0.266	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with E 0.03 ata(Separate 0.02 0.03 -0.05 -0.04	(dBm) 19.15 19.15 19.15 19.15 19.17 with Battery2# 19.15 te 15mm) 24.24 24.24 24.24 24.24 24.24 29.34 24.24 29.10mm) 19.15 19.15 19.15	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191 1.191 1.216 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378 0.367	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side Left side Top side	RMC RMC RMC RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 Hotspoi	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Ter 1:1 Bod 1:1 1:1 The Test data 1:1 Ho 1:1 1:1 1:1 1:1 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the worst 0.308 ttspot Test d 0.117 0.206 0.041 0.266	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with E 0.03 ata(Separate 0.02 0.03 -0.05 -0.04	(dBm) 19.15 19.15 19.15 19.15 19.12 19.17 with Battery2# 19.15 te 15mm) 24.24 24.24 34.24 34.24 35 attery2#(Separa 24.24 36 10mm) 19.15 19.15 19.15	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191 1.191 1.216 1.216 1.216 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378 0.367	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Right tilted Right tilted Right tilted Right tilted Right tilted Front side Back side Front side Back side Left side	RMC RMC RMC RMC RMC RMC RMC RMC RMC	1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1312/1712.4 1513/1752.6 1412/1732.4 1412/1732.4 Body wo 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4 1412/1732.4	1:1 1:1 1:1 1:1 1:1 1:1 1:1 Head Ter 1:1 Bod 1:1 1:1 The Test data 1:1 Ho 1:1 1:1 1:1 1:1 1:1	1-g Head 0.293 0.419 0.474 0.697 0.488 0.582 st data at the 0.679 y worn Test 0.195 0.317 at the worst 0.308 ttspot Test d 0.117 0.206 0.041 0.266	(dB) d Test data -0.08 0.01 -0.02 -0.18 -0.14 -0.10 e worst case 0.11 data(Separa 0.03 -0.02 t case with E 0.03 ata(Separate 0.02 0.03 -0.05 -0.04	(dBm) 19.15 19.15 19.15 19.15 19.17 with Battery2# 19.15 te 15mm) 24.24 24.24 24.24 24.24 24.24 29.34 24.24 29.10mm) 19.15 19.15 19.15	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00 20.00	1.216 1.216 1.216 1.216 1.225 1.211 1.216 1.191 1.191 1.191 1.216 1.216 1.216	0.356 0.510 0.576 0.848 0.598 0.705 0.826 0.232 0.378 0.367	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.

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



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8.3.5 SAR Result of WCDMA Band V

			Ant2	Test Record	t				
Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
			Hea	d Test data					
RMC	4182/836.4	1:1	0.140	0.02	21.68	22.70	1.265	0.177	22.1
RMC	4182/836.4	1:1	0.095	0.26	21.68	22.70	1.265	0.121	22.1
RMC	4182/836.4	1:1	0.446	0.03	21.68	22.70	1.265	0.564	22.1
RMC	4182/836.4	1:1	0.239	-0.02	21.68	22.70	1.265	0.302	22.1
		Head To	est data at th	e worst case	with Battery2#				
RMC	4182/836.4	1:1	0.428	-0.18	21.68	22.70	1.265	0.541	22.1
		Во	dy worn Test	data(Separ	ate 15mm)				
RMC	4182/836.4	1:1	0.104	0.03	24.55	25.70	1.303	0.136	22.1
RMC	4182/836.4	1:1	0.105	-0.05	24.55	25.70	1.303	0.137	22.1
	Body wo	orn Test dat	a at the wors	st case with I	Battery2#(Sepa	rate 15mm)			
RMC	4182/836.4	1:1	0.101	0.05	24.55	25.70	1.303	0.132	22.1
		Н	otspot Test of	data(Separat	te 10mm)				
RMC	4182/836.4	1:1	0.085	-0.02	21.68	22.70	1.265	0.107	22.1
RMC	4182/836.4	1:1	0.101	0.01	21.68	22.70	1.265	0.128	22.1
RMC	4182/836.4	1:1	0.115	0.03	21.68	22.70	1.265	0.145	22.1
RMC	4182/836.4	1:1	0.041	0.14	21.68	22.70	1.265	0.052	22.1
	Hotspo	t Test data	at the worst	case with Ba	attery2#(Separa	ate 10mm)			
RMC	4182/836.4	1:1	0.103	0.13	21.68	22.70	1.265	0.130	22.1
				Test Recor	d				
Test mode	Test Ch./Freq.	Duty Cycle	(W/kg)	Power Drift (dB)	Conducted Power (dRm)	Tune up Limit	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
					(ubiii)	(ubiii)		(W/Kg)	
RMC	4182/836.4	1:1	0.067	0.07	24.42	25.00	1.143	0.077	22.1
RMC	4182/836.4	1:1							
		1.1	0.039	-0.04	24.42	25.00	1.143	0.044	22.1
RMC	4182/836.4	1:1	0.039 0.067	-0.04 0.01	24.42 24.42	25.00 25.00	1.143	0.044 0.077	22.1 22.1
RMC RMC	4182/836.4 4182/836.4								
	+	1:1 1:1	0.067 0.039	0.01 0.04	24.42 24.42	25.00 25.00	1.143	0.077	22.1
	+	1:1 1:1	0.067 0.039	0.01 0.04	24.42	25.00 25.00	1.143	0.077	22.1
RMC	4182/836.4	1:1 1:1 Head To	0.067 0.039 est data at th	0.01 0.04 e worst case -0.01	24.42 24.42 with Battery2# 24.42	25.00 25.00	1.143 1.143	0.077 0.044	22.1 22.1
RMC	4182/836.4	1:1 1:1 Head To	0.067 0.039 est data at th 0.058	0.01 0.04 e worst case -0.01	24.42 24.42 with Battery2# 24.42	25.00 25.00	1.143 1.143	0.077 0.044	22.1 22.1
RMC RMC	4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Head To 1:1	0.067 0.039 est data at th 0.058 dy worn Test	0.01 0.04 e worst case -0.01 data(Separa	24.42 24.42 with Battery2# 24.42 ate 15mm)	25.00 25.00 25.00	1.143 1.143 1.143	0.077 0.044 0.066	22.1 22.1 22.1
RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Head To 1:1 Bo 1:1	0.067 0.039 est data at th 0.058 dy worn Test 0.110 0.147	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42	25.00 25.00 25.00 25.00 25.00	1.143 1.143 1.143	0.077 0.044 0.066	22.1 22.1 22.1 22.1
RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 Body wo	1:1 1:1 Head To 1:1 Bo 1:1	0.067 0.039 est data at the 0.058 dy worn Test 0.110 0.147 a at the wors	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 st case with l	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa	25.00 25.00 25.00 25.00 25.00 rate 15mm)	1.143 1.143 1.143	0.077 0.044 0.066	22.1 22.1 22.1 22.1
RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Head To 1:1 Bo 1:1 1:1 orn Test dat 1:1	0.067 0.039 est data at th 0.058 dy worn Test 0.110 0.147	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 et case with I	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa 24.42	25.00 25.00 25.00 25.00 25.00	1.143 1.143 1.143 1.143 1.143	0.077 0.044 0.066 0.126 0.168	22.1 22.1 22.1 22.1 22.1
RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 Body wo	1:1 1:1 Head To 1:1 Bo 1:1 1:1 orn Test dat 1:1	0.067 0.039 est data at the 0.058 dy worn Test 0.110 0.147 a at the wors 0.138	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 et case with I	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa 24.42	25.00 25.00 25.00 25.00 25.00 rate 15mm)	1.143 1.143 1.143 1.143 1.143	0.077 0.044 0.066 0.126 0.168	22.1 22.1 22.1 22.1 22.1
RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 Body wo 4182/836.4	1:1 1:1 Head To 1:1 Bo 1:1 1:1 orn Test dat 1:1	0.067 0.039 est data at th 0.058 dy worn Test 0.110 0.147 a at the wors 0.138 otspot Test of	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 st case with I 0.13 data(Separa	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa 24.42 te 10mm)	25.00 25.00 25.00 25.00 25.00 rate 15mm) 25.00	1.143 1.143 1.143 1.143 1.143 1.143	0.077 0.044 0.066 0.126 0.168	22.1 22.1 22.1 22.1 22.1 22.1
RMC RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 Body wo 4182/836.4 4182/836.4	1:1 1:2 Head To 1:1 Bo 1:1 1:1 orn Test dat 1:1 H	0.067 0.039 est data at th 0.058 dy worn Test 0.110 0.147 a at the wors 0.138 otspot Test 0 0.223	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 st case with I 0.13 data(Separat 0.04	24.42 24.42 e with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa 24.42 te 10mm) 24.42	25.00 25.00 25.00 25.00 25.00 rate 15mm) 25.00	1.143 1.143 1.143 1.143 1.143 1.143	0.077 0.044 0.066 0.126 0.168 0.158	22.1 22.1 22.1 22.1 22.1 22.1 22.1
RMC RMC RMC RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 Body wo 4182/836.4 4182/836.4 4182/836.4	1:1 Head To 1:1 Bo 1:1 1:1 Orn Test dat 1:1 H	0.067 0.039 est data at th 0.058 dy worn Test 0.110 0.147 a at the wors 0.138 otspot Test 0 0.223 0.249	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 st case with I 0.13 data(Separat 0.04 -0.03	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa 24.42 ee 10mm) 24.42 24.42	25.00 25.00 25.00 25.00 25.00 rate 15mm) 25.00 25.00	1.143 1.143 1.143 1.143 1.143 1.143 1.143	0.077 0.044 0.066 0.126 0.168 0.158 0.255 0.285	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
RMC RMC RMC RMC RMC RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 Body wo 4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 Head To 1:1 Bo 1:1 1:1 1:1 H 1:1 H:1 1:1 1:1	0.067 0.039 est data at the 0.058 dy worn Test 0.110 0.147 a at the wors 0.138 otspot Test 0 0.223 0.249 0.081 0.176	0.01 0.04 e worst case -0.01 data(Separa 0.08 -0.04 st case with I 0.13 data(Separat 0.04 -0.03 0.10 0.03	24.42 24.42 with Battery2# 24.42 ate 15mm) 24.42 24.42 Battery2#(Sepa 24.42 te 10mm) 24.42 24.42 24.42	25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00	1.143 1.143 1.143 1.143 1.143 1.143 1.143 1.143	0.077 0.044 0.066 0.126 0.168 0.158 0.255 0.285 0.093	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
	RMC	mode Ch./Freq. RMC 4182/836.4 Test Test Mode Ch./Freq.	mode Ch./Freq. Cycle RMC 4182/836.4 1:1 RMC 4182/836.4 1:1 RMC 4182/836.4 1:1 Head Team RMC 4182/836.4 1:1 Bod RMC 4182/836.4 1:1 RMC 4182/836.4 1:1 Body worn Test data Head Team RMC 4182/836.4 1:1 Test data RMC 4182/836.4 1:1	Test mode Ch./Freq. Duty Cycle (W/kg) 1-g Hea RMC 4182/836.4 1:1 0.140 RMC 4182/836.4 1:1 0.095 RMC 4182/836.4 1:1 0.446 RMC 4182/836.4 1:1 0.239 Head Test data at the RMC 4182/836.4 1:1 0.428 Body worn Test Body worn Test Atta at the worst Atta Atta Atta Atta Atta Atta Atta At	Test mode	Test mode	Test mode Ch./Freq. Duty Cycle (W/kg) 1-g (R/kg) (Hg) (Hg) (Hg) (Hg) (Hg) (Hg) (Hg) (H	Test mode	Test mode

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



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8.3.6 SAR Result of LTE Band 2

				Ant	1 Test Rec						
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data	(1RB)					
Left cheek	20	QPSK 1RB_50	18700/1860	1:1	0.092	0.12	24.88	25.50	1.153	0.106	22.3
Left tilted	20	QPSK 1RB_50	18700/1860	1:1	0.074	-0.17	24.88	25.50	1.153	0.085	22.3
Right cheek	20	QPSK 1RB_50	18700/1860	1:1	0.098	0.07	24.88	25.50	1.153	0.113	22.3
Right tilted	20	QPSK 1RB_50	18700/1860	1:1	0.077	-0.18	24.88	25.50	1.153	0.089	22.3
				Head T	est data(5	0%RB)					
Left cheek	20	QPSK 50RB_25	18700/1860	1:1	0.078	-0.16	23.90	24.50	1.148	0.090	22.3
Left tilted	20	QPSK 50RB_25	18700/1860	1:1	0.066	-0.19	23.90	24.50	1.148	0.076	22.3
Right cheek	20	QPSK 50RB_25	18700/1860	1:1	0.084	0.06	23.90	24.50	1.148	0.096	22.3
Right tilted	20	QPSK 50RB_25	18700/1860	1:1	0.068	-0.07	23.90	24.50	1.148	0.078	22.3
			Head Test	data at the	worst case	e with Batte	ery2#(1RB)				
Right cheek	20	QPSK 1RB_50	18700/1860	1:1	0.091	-0.07	24.88	25.50	1.153	0.105	22.3
			Body	worn Test	data(Sepa	rate 15mm	1RB)				
Front side	20	QPSK 1RB_50	18700/1860	1:1	0.228	-0.06	24.88	25.50	1.153	0.263	22.3
Back side	20	QPSK 1RB_50	18700/1860	1:1	0.429	-0.03	24.88	25.50	1.153	0.495	22.3
			Body w	orn Test da	ata (Separa	ate 15mm 5	0%RB)				
Front side	20	QPSK 50RB_25	18700/1860	1:1	0.186	-0.06	23.90	24.50	1.148	0.214	22.3
Back side	20	QPSK 50RB_25	18700/1860	1:1	0.265	-0.11	23.90	24.50	1.148	0.304	22.3
•		Body w	orn Test data	at the wors	t case with	Battery2#(Separate 15	imm 1RB)			•
Back side	20	QPSK 1RB_50	18700/1860	1:1	0.413	0.14	24.88	25.50	1.153	0.476	22.3
			Hots	pot Test d	ata(Separa	te 10mm 1	RB)				•
Front side	20	QPSK 1RB_99	18700/1860	1:1	0.266	0.08	22.88	23.50	1.153	0.307	22.3
Back side	20	QPSK 1RB_99	18700/1860	1:1	0.384	0.01	22.88	23.50	1.153	0.443	22.3
Left side	20	QPSK 1RB_99	18700/1860	1:1	0.107	-0.01	22.88	23.50	1.153	0.123	22.3
Bottom side	20	QPSK 1RB_99	18700/1860	1:1	0.615	-0.07	22.88	23.50	1.153	0.709	22.3
•			Hotspe	ot Test dat	a (Separate	e 10mm 50	%RB)				•
Front side	20	QPSK 50RB_50	19100/1900	1:1	0.285	0.00	22.83	23.50	1.167	0.333	22.3
Back side	20	QPSK 50RB_50	19100/1900	1:1	0.415	0.10	22.83	23.50	1.167	0.484	22.3
Left side	20	QPSK 50RB_50	19100/1900	1:1	0.125	0.05	22.83	23.50	1.167	0.146	22.3
Bottom side	20	QPSK 50RB_50		1:1	0.730	-0.05	22.83	23.50	1.167	0.852	22.3
Bottom side	20	QPSK 50RB_25	18700/1860	1:1	0.578	0.04	22.76	23.50	1.186	0.685	22.3
Bottom side	20	QPSK 50RB_50	18900/1880	1:1	0.596	0.05	22.73	23.50	1.194	0.712	22.3
		'	Hotspo	t Test data	(Separate	10mm 100)%RB)		I.		ı
Bottom side	20	QPSK 100RB_0		1:1	0.555	0.03	22.70	23.50	1.202	0.667	22.3
l			Test data at th	e worst ca					I		I
Bottom side	20	QPSK 50RB 50		1:1	0.714	0.12	22.83	23.50	1.167	0.833	22.3
		_		Ant	4 Test Rec	ord					
			Tool		SAR		Conducted	Tune up	Cocled	Scaled	Lieudd
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg) 1- g	Power Drift (dB)	Power (dBm)	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
				Head	Test data	(1RB)				1	
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.323	0.05	20.76	21.50	1.186	0.383	22.3
Left tilted	20	QPSK 1RB_0	18700/1860	1:1	0.434	0.15	20.76	21.50	1.186	0.515	22.3
Right cheek	20	QPSK 1RB_0	18700/1860	1:1	0.573	-0.12	20.76	21.50	1.186	0.679	22.3
Right tilted	20	QPSK 1RB_0	18700/1860	1:1	0.793	-0.08	20.76	21.50	1.186	0.940	22.3
Right tilted	20	QPSK 1RB_99	18900/1880	1:1	0.645	-0.18	20.72	21.50	1.197	0.772	22.3
Right tilted	20	QPSK 1RB_99	19100/1900	1:1	0.642	-0.09	20.75	21.50	1.189	0.763	22.3



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				Head T	est data(5	0%RB)					
Left cheek	20	QPSK 50RB_50	18700/1860	1:1	0.308	0.05	20.66	21.50	1.213	0.374	22.3
Left tilted	20	QPSK 50RB_50	18700/1860	1:1	0.403	-0.06	20.66	21.50	1.213	0.489	22.3
Right cheek	20	QPSK 50RB_50	18700/1860	1:1	0.563	0.07	20.66	21.50	1.213	0.683	22.3
Right tilted	20	QPSK 50RB_50	18700/1860	1:1	0.753	0.03	20.66	21.50	1.213	0.914	22.3
Right tilted	20	QPSK 50RB_50	18900/1880	1:1	0.667	-0.12	20.56	21.50	1.242	0.828	22.3
Right tilted	20	QPSK 50RB_50	19100/1900	1:1	0.674	-0.11	20.61	21.50	1.227	0.827	22.3
			Head Test	data at the	worst case	with Batte	ery2#(1RB)				
Right tilted	20	QPSK 1RB_0	18700/1860	1:1	0.768	0.01	20.76	21.50	1.186	0.911	22.3
				Head T	est data(10	0%RB)					
Right tilted	20	QPSK 100RB_0	18700/1860	1:1	0.675	-0.11	20.60	21.50	1.230	0.830	22.3
				worn Test	data(Sepa	rate 15mm	1RB)				
Front side	20	QPSK 1RB_99	18900/1880	1:1	0.141	-0.17	24.38	25.50	1.294	0.182	22.3
Back side	20	QPSK 1RB_99	18900/1880	1:1	0.273	-0.06	24.38	25.50	1.294	0.353	22.3
			Body we	orn Test da	ata (Separa	te 15mm 5	0%RB)				
Front side	20	QPSK 50RB_50	18700/1860	1:1	0.114	0.17	23.44	24.50	1.276	0.146	22.3
Back side	20	QPSK 50RB_50	18700/1860	1:1	0.174	-0.18	23.44	24.50	1.276	0.222	22.3
		Body w	orn Test data a	at the wors	t case with	Battery2#(Separate 15	mm 1RB)			
Back side	20	QPSK 1RB_99	18900/1880	1:1	0.258	0.02	24.38	25.50	1.294	0.334	22.3
				pot Test d	ata(Separa	te 10mm 1	RB)				
Front side	20	QPSK 1RB_0	18700/1860	1:1	0.118	0.14	20.76	21.50	1.186	0.140	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.188	0.17	20.76	21.50	1.186	0.223	22.3
Left side	20	QPSK 1RB_0	18700/1860	1:1	0.048	0.18	20.76	21.50	1.186	0.057	22.3
Top side	20	QPSK 1RB_0	18700/1860	1:1	0.321	-0.01	20.76	21.50	1.186	0.381	22.3
			Hotspo	ot Test data	a (Separate	e 10mm 50	%RB)				
Front side	20	QPSK 50RB_50	18700/1860	1:1	0.124	0.09	20.66	21.50	1.213	0.150	22.3
Back side	20	QPSK 50RB_50	18700/1860	1:1	0.192	0.17	20.66	21.50	1.213	0.233	22.3
Left side	20	QPSK 50RB_50	18700/1860	1:1	0.049	-0.15	20.66	21.50	1.213	0.059	22.3
Top side	20	QPSK 50RB_50	18700/1860	1:1	0.317	-0.05	20.66	21.50	1.213	0.385	22.3
		Hotspot	Test data at th	e worst ca	se with Bat	tery2# (Se	parate 10mr	n 50%RB)			
Top side	20	QPSK 50RB_50	18700/1860	1:1	0.302	0.04	20.66	21.50	1.213	0.366	22.3
Table 16 C	AD of	LTF Rand 2 fo	or Hood one	I Dody							

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



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8.3.7 SAR Result of LTE Band 4

				Ant1	Test Reco	ord					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	g	Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
		T	1		Test data(1	,	1			T	
Left cheek	20	QPSK 1RB_0	20300/1745	1:1	0.060	0.15	24.92	25.50	1.143	0.069	22.2
Left tilted	20	QPSK 1RB_0	20300/1745	1:1	0.047	0.08	24.92	25.50	1.143	0.054	22.2
Right cheek	20	QPSK 1RB_0	20300/1745	1:1	0.062	0.05	24.92	25.50	1.143	0.071	22.2
Right tilted	20	QPSK 1RB_0	20300/1745	1:1	0.043	-0.08	24.92	25.50	1.143	0.049	22.2
				Head Te	est data(50	%RB)					
Left cheek	20	QPSK 50RB_25	20175/1732.5	1:1	0.045	-0.11	23.96	24.50	1.132	0.051	22.2
Left tilted	20	QPSK 50RB_25	20175/1732.5	1:1	0.021	-0.05	23.96	24.50	1.132	0.024	22.2
Right cheek	20	QPSK 50RB_25	20175/1732.5	1:1	0.055	0.03	23.96	24.50	1.132	0.062	22.2
Right tilted	20	QPSK 50RB_25	20175/1732.5	1:1	0.030	0.13	23.96	24.50	1.132	0.034	22.2
			Head Test da	ata at the v	worst case	with Batter	ry2#(1RB)				
Right cheek	20	QPSK 1RB_0	20300/1745	1:1	0.051	0.01	24.92	25.50	1.143	0.058	22.2
			Body w	orn Test o	lata(Separ	ate 15mm	1RB)				
Front side	20	QPSK 1RB_0	20300/1745	1:1	0.134	-0.05	24.92	25.50	1.143	0.153	22.2
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.187	-0.08	24.92	25.50	1.143	0.214	22.2
•		•	Body wor	n Test dat	a (Separat	e 15mm 50	0%RB)				
Front side	20	QPSK 50RB_25	20175/1732.5	1:1	0.113	-0.12	23.96	24.50	1.132	0.128	22.2
Back side	20	QPSK 50RB 25	20175/1732.5	1:1	0.173	-0.01	23.96	24.50	1.132	0.196	22.2
		Body v	vorn Test data at	the worst	case with I	Battery2#(S				I	
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.181	0.03	24.92	25.50	1.143	0.207	22.2
			Hotsp	ot Test da	ta(Separat	e 10mm 1F	RB)			I	
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.195	0.06	23.97	24.50	1.130	0.220	22.2
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.309	0.16	23.97	24.50	1.130	0.349	22.2
Left side	20	QPSK 1RB_50	20175/1732.5	1:1	0.052	0.11	23.97	24.50	1.130	0.059	22.2
Bottom side	20	QPSK 1RB_50	20175/1732.5	1:1	0.523	0.01	23.97	24.50	1.130	0.591	22.2
Dottom oldo		QI OIT ITE_00				10mm 50%		21.00	11.100	0.001	
Front side	20	QPSK 50RB_25	20175/1732.5	1:1	0.208	-0.04	23.96	24.50	1.132	0.236	22.2
Back side	20	QPSK 50RB_25	20175/1732.5	1:1	0.200	0.17	23.96	24.50	1.132	0.230	22.2
Left side	20	QPSK 50RB_25	20175/1732.5	1:1	0.070	-0.10	23.96	24.50	1.132	0.079	22.2
	20	QPSK 50RB_25	20175/1732.5	1:1	0.070	-0.10	23.96	24.50	1.132	0.617	22.2
Bottom side	20								1.132	0.017	22.2
Bottom side	20	QPSK 50RB_25	t Test data at the 20175/1732.5	1:1	0.532	0.11	23.96	24.50	1.132	0.602	22.2
Bottom side	20	QF3K 50KB_25	20175/1752.5		Test Reco		23.90	24.50	1.132	0.002	22.2
		I			SAR	1	Conducted	Tune un		Scaled	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg) 1- g	Power Drift (dB)	Power (dBm)	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
				Head ⁻	Test data(1	RB)					
Left cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.327	-0.09	19.84	20.70	1.219	0.399	22.2
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.430	0.17	19.84	20.70	1.219	0.524	22.2
Right cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.547	-0.05	19.84	20.70	1.219	0.667	22.2
Right tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.582	0.07	19.84	20.70	1.219	0.709	22.2
		•		Head Te	est data(50	%RB)					
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.335	-0.12	19.70	20.70	1.259	0.422	22.2
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.435	-0.13	19.70	20.70	1.259	0.548	22.2
	20	QPSK 50RB 0	20175/1732.5	1:1	0.556	-0.19	19.70	20.70	1.259	0.700	22.2
Klant cheek									- 1		
Right cheek Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.708	-0.01	19.70	20.70	1.259	0.891	22.2



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Brake die a	00	0001/ 5000 0	00000/4745	م م	I 0.000	1 000	10.05	00.70	4 074		00.0
Right tilted	20	QPSK 50RB_0	20300/1745	1:1	0.630	-0.09	19.65	20.70	1.274	0.802	22.2
Dialet tilte d	20	ODCK 400DD 0	20050/4720		st data(100		40.00	20.70	4.005	0.074	22.2
Right tilted	20	QPSK 100RB_0	20050/1720	1:1	0.533	-0.11	19.68	20.70	1.265	0.674	22.2
Dight tilted	20	QPSK 50RB_0	Head Test dat 20175/1732.5	1:1	0.681	0.14	19.70	20.70	1.259	0.857	22.2
Right tilted	20	QF3K 30KB_0			lata(Separ		l	20.70	1.239	0.037	22.2
Front side	20	QPSK 1RB_0	20300/1745	1:1	0.179	-0.15	24.49	25.70	1.321	0.237	22.2
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.326	0.03	24.49	25.70	1.321	0.431	22.2
24011 0140		Q. 0			a (Separat			200		0	
Front side	20	QPSK 50RB_25	20050/1720	1:1	0.156	0.04	23.62	24.70	1.282	0.200	22.2
Back side	20	QPSK 50RB 25	20050/1720	1:1	0.235	0.01	23.62	24.70	1.282	0.301	22.2
			vorn Test data at								
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.311	0.07	24.49	25.70	1.321	0.411	22.2
			Hotsp	ot Test da	ta(Separat	e 10mm 1F	RB)			l .	
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.119	-0.03	19.84	20.70	1.219	0.145	22.2
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.183	-0.18	19.84	20.70	1.219	0.223	22.2
Left side	20	QPSK 1RB_0	20175/1732.5	1:1	0.043	-0.03	19.84	20.70	1.219	0.052	22.2
Top side	20	QPSK 1RB_0	20175/1732.5	1:1	0.261	-0.14	19.84	20.70	1.219	0.318	22.2
			Hotspot	Test data	(Separate	10mm 509	%RB)				
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.124	0.12	19.70	20.70	1.259	0.156	22.2
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.194	0.09	19.70	20.70	1.259	0.244	22.2
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.048	-0.03	19.70	20.70	1.259	0.060	22.2
Top side	20	QPSK 50RB_0	20175/1732.5	1:1	0.275	-0.01	19.70	20.70	1.259	0.346	22.2
		Hotspot	t Test data at the	worst cas	e with Batt	ery2# (Sep	arate 10mm	50%RB)			
Top side	20	QPSK 50RB_0	20175/1732.5	1:1	0.263	0.14	19.70	20.70	1.259	0.331	22.2
				ΔntΩ	Test Reco	ard.					
				Aiito							
Test position	RW	Test mode	Test Ch /Freg	Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test Ch./Freq.		SAR	Dawar	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	SAR	Liquid Temp
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR	Power Drift (dB)	Power	Limit			
Test position Left cheek	BW.	Test mode QPSK 1RB_0	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Power	Limit		SAR	
·				Duty Cycle Head	SAR (W/kg) 1- g Test data(1	Power Drift (dB)	Power (dBm)	Limit (dBm)	factor	SAR (W/kg)	Temp
Left cheek	20	QPSK 1RB_0	20300/1745	Duty Cycle Head	SAR (W/kg) 1- g Test data(1 0.344	Power Drift (dB) RB) 0.03	Power (dBm) 24.68	Limit (dBm) 25.00	factor 1.076	SAR (W/kg) 0.370	Temp 22.2
Left cheek Left tilted	20	QPSK 1RB_0 QPSK 1RB_0	20300/1745	Duty Cycle Head - 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005	Power Drift (dB) RB) 0.03 -0.01	24.68 24.68	25.00 25.00	1.076 1.076	SAR (W/kg) 0.370 0.005	22.2 22.2
Left cheek Left tilted Right cheek	20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0	20300/1745 20300/1745 20300/1745	Duty Cycle Head 1:1 1:1 1:1 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14	Power (dBm) 24.68 24.68 24.68	25.00 25.00 25.00	1.076 1.076 1.076	SAR (W/kg) 0.370 0.005 0.257	22.2 22.2 22.2
Left cheek Left tilted Right cheek	20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25	20300/1745 20300/1745 20300/1745	Duty Cycle Head 1:1 1:1 1:1 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14	Power (dBm) 24.68 24.68 24.68	25.00 25.00 25.00	1.076 1.076 1.076	SAR (W/kg) 0.370 0.005 0.257	22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1	SAR (W/kg) 1- g Fest data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15	24.68 24.68 24.68 24.68 24.68 23.61	25.00 25.00 25.00 25.00 25.00 24.00	1.076 1.076 1.076 1.076 1.076 1.094	0.370 0.005 0.257 0.056	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720 20050/1720	Duty Cycle Head 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02	24.68 24.68 24.68 24.68 24.68	25.00 25.00 25.00 25.00 25.00	1.076 1.076 1.076 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 20050/1720	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61	25.00 25.00 25.00 25.00 25.00 24.00	1.076 1.076 1.076 1.076 1.076 1.094	0.370 0.005 0.257 0.056	22.2 22.2 22.2 22.2 22.2 22.2 22.2
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	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720 20050/1720 Head Test do	Duty Cycle Head 1:1 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batte	24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 27.2#(1RB)	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 24.00	1.076 1.076 1.076 1.076 1.076 1.094 1.094 1.094	SAR (W/kg) 0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720 20050/1720 Head Test di 20300/1745	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00	1.076 1.076 1.076 1.076 1.076 1.094 1.094	0.370 0.005 0.257 0.056 0.277 0.010 0.189	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right cheek	20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720 20050/1720 Head Test do 20300/1745 Body w	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separ	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 24.68	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 24.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094	SAR (W/kg) 0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side	20 20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720 20050/1720 Head Test do 20300/1745 Body w 20300/1745	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separ 0.002	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 1RB) 24.68	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094 1.076	SAR (W/kg) 0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right cheek	20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test do 20300/1745 Body w 20300/1745 20300/1745	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 interpretable of the second of th	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separa 0.002 0.044	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Battel 0.17 ate 15mm -0.05 0.06	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 24.68 24.68	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 24.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094	SAR (W/kg) 0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Right side Back side	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0	20300/1745 20300/1745 20300/1745 20300/1745 20050/1720 20050/1720 20050/1720 Head Test do 20300/1745 Body w 20300/1745 Body wor	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 The at at the vertical at t	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separa	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Battel 0.17 ate 15mm -0.05 0.06 e 15mm 56	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 1RB) 24.68 24.68 24.68	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test di 20300/1745 Body w 20300/1745 Body wor 20050/1720	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 The at at the vertical at t	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separat 0.002 0.044 a (Separat	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 1RB) 24.68 24.68 24.68 25.61	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00	1.076 1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357 0.002 0.048	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Right side Back side	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test di 20300/1745 Body wor 20300/1745 Body wor 20050/1720 20050/1720 20050/1720	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 The at at the vertical at t	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separat 0.002 0.044 a (Separat 0.003 0.039	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07 0.17	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 24.68 1RB) 24.68 24.68 24.68 23.61 23.61 23.61 23.61 23.61	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00 25.00 24.00 24.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted 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 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test data 20300/1745 Body word 20300/1745 Body word 20050/1720 20050/1720 20050/1720 20050/1720 20050/1720 20050/1720 vorn Test data at	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 The ata at the value of the cycle 1:1 1:1 The ata at the value of the cycle 1:1 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the value of the cycle 1:1 The ata at the cycle 1:1 The ata at the value of the cycle 1:1 The ata at	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separat 0.002 0.044 a (Separat 0.003 0.039 case with	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07 0.17 Battery2#(\$	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 24.68 24.68 23.61 23.61 23.61 24.68 24.68 25.68 26.68 26.68 27.68 27.68 28.68 28.68 28.61 28.61	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357 0.002 0.048	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test da 20300/1745 Body w 20300/1745 Body wor 20050/1720 20050/1720 vorn Test data at 20300/1745	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 Torn Test dat 1:1 1:1 the worst 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separat 0.002 0.044 a (Separat 0.003 0.039 case with 1 0.041	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07 0.17 Battery2#(\$ 0.14	24.68 24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 1RB) 24.68 24.68 24.68 25.61 25.61 25.61 25.61 25.61 25.61 25.61 25.61	25.00 25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00 25.00 24.00 24.00	1.076 1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357 0.002 0.048	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Eft cheek Front side Back side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test do 20300/1745 Body wo 20300/1745 Body wor 20050/1720 20050/1720 20050/1720 20050/1720 Vorn Test data at 20300/1745 Hotsp	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 Torn Test of 1:1 1:1 The worst 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 lata(Separat 0.002 0.044 a (Separat 0.003 0.039 case with I 0.041 ta(Separat	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07 0.17 Battery2#(\$ 0.14 e 10mm 1F	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 28 28 28	25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00 24.00 24.00 25.00 25.00 25.00 25.00 25.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094 1.076 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357 0.002 0.048 0.003 0.043	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side Front side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test di 20300/1745 Body wo 20300/1745 Body wor 20050/1720 20050/1720 vorn Test data at 20300/1745 Hotsp 20300/1745	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 The at at the value of the cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 data(Separat 0.002 0.044 a (Separat 0.003 0.039 case with 1 0.041 ta(Separat	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07 0.17 Battery2#(\$ 0.14 e 10mm 1F 0.13	24.68 24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 1RB) 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 25.61 25.61 25.61 25.61 25.61	25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00 25.00	1.076 1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.076 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357 0.002 0.048 0.003 0.043	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted Eft cheek Front side Back side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_0 QPSK 1RB_0 QPSK 1RB_0 QPSK 50RB_25 QPSK 50RB_25	20300/1745 20300/1745 20300/1745 20300/1745 20300/1720 20050/1720 20050/1720 Head Test do 20300/1745 Body wo 20300/1745 Body wor 20050/1720 20050/1720 20050/1720 20050/1720 Vorn Test data at 20300/1745 Hotsp	Duty Cycle Head 1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 Torn Test of 1:1 1:1 The worst 1:1	SAR (W/kg) 1- g Test data(1 0.344 0.005 0.239 0.052 est data(50 0.253 0.009 0.173 0.045 worst case 0.332 lata(Separat 0.002 0.044 a (Separat 0.003 0.039 case with I 0.041 ta(Separat	Power Drift (dB) RB) 0.03 -0.01 -0.18 0.14 %RB) 0.02 0.15 -0.02 0.12 with Batter 0.17 ate 15mm -0.05 0.06 e 15mm 50 -0.07 0.17 Battery2#(\$ 0.14 e 10mm 1F	24.68 24.68 24.68 24.68 24.68 23.61 23.61 23.61 23.61 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 24.68 28 28 28	25.00 25.00 25.00 25.00 24.00 24.00 24.00 25.00 25.00 24.00 24.00 25.00 25.00 25.00 25.00 25.00	1.076 1.076 1.076 1.076 1.094 1.094 1.094 1.094 1.076 1.076 1.076	0.370 0.005 0.257 0.056 0.277 0.010 0.189 0.049 0.357 0.002 0.048 0.003 0.043	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.



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			Hotopot	Toot doto	(Congrete	10mm 500)/ DD\				
Cront oids	20	ODCK FODD OF			(Separate 0.061	0.14	, , , , , , , , , , , , , , , , , , ,	24.00	1 00 1	0.067	22.2
Front side		QPSK 50RB_25	20050/1720	1:1			23.61	24.00	1.094		
Back side	20	QPSK 50RB_25	20050/1720	1:1	0.071	0.11	23.61	24.00	1.094	0.078	22.2
Left side	20	QPSK 50RB_25	20050/1720	1:1	0.128	0.15	23.61	24.00	1.094	0.140	22.2
1 -61 -1-1-	00		ot Test data at th		1		1		4.070	0.000	00.0
Left side	20	QPSK 1RB_0	20300/1745	1:1	0.207	0.06	24.68	25.00	1.076	0.223	22.2
		1		Antit	Test Rec	ora	Candustad	Tuna un		Scaled	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- a	Power Drift (dB)	Conducted Power (dBm)	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
				Head ⁻	Test data(1	RB)	()	()		(
Left cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.100	0.06	23.73	24.50	1.194	0.119	22.2
Left tilted	20	QPSK 1RB_50	20175/1732.5	1:1	0.063	0.08	23.73	24.50	1.194	0.075	22.2
Right cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.175	0.08	23.73	24.50	1.194	0.209	22.2
Right tilted	20	QPSK 1RB_50	20175/1732.5	1:1	0.063	0.07	23.73	24.50	1.194	0.075	22.2
				Head Te	est data(50	%RB)					
Left cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.088	0.11	22.87	23.50	1.156	0.102	22.2
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.051	0.07	22.87	23.50	1.156	0.059	22.2
Right cheek	20	QPSK 50RB_0	20175/1732.5	1:1	0.159	0.08	22.87	23.50	1.156	0.184	22.2
Right tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.057	0.10	22.87	23.50	1.156	0.066	22.2
			Head Test d	ata at the v	worst case	with Batte	ry2#(1RB)				
Right cheek	20	QPSK 1RB_50	20175/1732.5	1:1	0.161	0.14	23.73	24.50	1.194	0.192	22.2
			Body w	vorn Test c	lata(Separ	ate 15mm	1RB)				
Front side	20	QPSK 1RB_50	20175/1732.5	1:1	0.114	0.09	23.73	24.50	1.194	0.136	22.2
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.205	0.02	23.73	24.50	1.194	0.245	22.2
			Body wor	rn Test dat	a (Separat	e 15mm 50	0%RB)				
Front side	20	QPSK 50RB_25	20300/1745	1:1	0.094	0.06	22.86	23.50	1.159	0.109	22.2
Back side	20	QPSK 50RB_25	20300/1745	1:1	0.138	0.08	22.86	23.50	1.159	0.160	22.2
		Body v	vorn Test data at	the worst	case with I	Battery2#(Separate 15	mm 1RB)			
Back side	20	QPSK 1RB_50	20175/1732.5	1:1	0.181	0.13	23.73	24.50	1.194	0.216	22.2
			Hotsp	ot Test da	ta(Separat	e 10mm 11	RB)				
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.192	0.06	22.88	23.50	1.153	0.221	22.2
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.274	0.11	22.88	23.50	1.153	0.316	22.2
Right side	20	QPSK 1RB_0	20175/1732.5	1:1	0.308	0.07	22.88	23.50	1.153	0.355	22.2
Bottom side	20	QPSK 1RB_0	20175/1732.5	1:1	0.098	0.08	22.88	23.50	1.153	0.113	22.2
			Hotspot	Test data	(Separate	10mm 509	%RB)				
Front side	20	QPSK 50RB_25	20300/1745	1:1	0.196	0.05	22.86	23.50	1.159	0.227	22.2
Back side	20	QPSK 50RB_25	20300/1745	1:1	0.281	0.09	22.86	23.50	1.159	0.326	22.2
Right side	20	QPSK 50RB_25	20300/1745	1:1	0.335	0.13	22.86	23.50	1.159	0.388	22.2
Bottom side	20	QPSK 50RB_25	20300/1745	1:1	0.102	0.09	22.86	23.50	1.159	0.118	22.2
			Test data at the	worst cas	e with Batt	ery2# (Sep	oarate 10mm	50%RB)			
Right side	20	QPSK 50RB_25	20300/1745	1:1	0.314	-0.03	22.86	23.50	1.159	0.364	22.2
Table 17 C	۸D	of LTF Band 4 f	or Hood and	Dody							

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



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8.3.8 SAR Result of LTE Band 5

				Ant2	Test Rec						
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(1RB)					
Left cheek	10	QPSK 1RB_25	20600/844	1:1	0.137	-0.14	20.81	21.70	1.227	0.168	22.1
Left tilted	10	QPSK 1RB_25	20600/844	1:1	0.095	-0.02	20.81	21.70	1.227	0.117	22.1
Right cheek	10	QPSK 1RB_25	20600/844	1:1	0.440	-0.03	20.81	21.70	1.227	0.540	22.1
Right tilted	10	QPSK 1RB_25	20600/844	1:1	0.188	0.08	20.81	21.70	1.227	0.231	22.1
					est data(50)%RB)				T	
Left cheek	10	QPSK 25RB_13	20450/829	1:1	0.117	0.02	20.58	21.70	1.294	0.151	22.1
Left tilted	10	QPSK 25RB_13	20450/829	1:1	0.080	0.13	20.58	21.70	1.294	0.104	22.1
Right cheek	10	QPSK 25RB_13	20450/829	1:1	0.305	0.01	20.58	21.70	1.294	0.395	22.1
Right tilted	10	QPSK 25RB_13	20450/829	1:1	0.164	-0.18	20.58	21.70	1.294	0.212	22.1
			Head Test of	lata at the	worst case	with Batte	ry2#(1RB)			T	
Right cheek	10	QPSK 1RB_25	20600/844	1:1	0.418	0.17	20.81	21.70	1.227	0.513	22.1
			Body v	worn Test	data(Sepai	ate 15mm	1RB)				
Front side	10	QPSK 1RB_0	20450/829	1:1	0.126	0.01	24.86	25.70	1.213	0.153	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.072	-0.11	24.86	25.70	1.213	0.087	22.1
			Body wo	rn Test da	ta (Separa	te 15mm 5	0%RB)				
Front side	10	QPSK 25RB_13	20525/836.5	1:1	0.102	0.12	23.87	24.70	1.211	0.123	22.1
Back side	10	QPSK 25RB_13	20525/836.5	1:1	0.100	0.13	23.87	24.70	1.211	0.121	22.1
		Body wo	rn Test data a	t the worst	case with	Battery2#(Separate 15	mm 1RB)			
Front side	10	QPSK 1RB_0	20450/829	1:1	0.102	-0.15	24.86	25.70	1.213	0.124	22.1
			Hotsp	oot Test da	ata(Separa	te 10mm 1	RB)				
Front side	10	QPSK 1RB_25	20600/844	1:1	0.084	0.02	20.81	21.70	1.227	0.104	22.1
Back side	10	QPSK 1RB_25	20600/844	1:1	0.099	0.06	20.81	21.70	1.227	0.122	22.1
Left side	10	QPSK 1RB_25	20600/844	1:1	0.117	-0.14	20.81	21.70	1.227	0.144	22.1
Top side	10	QPSK 1RB_25	20600/844	1:1	0.040	0.06	20.81	21.70	1.227	0.049	22.1
		•	Hotspo	t Test data	(Separate	10mm 50°	%RB)				
Front side	10	QPSK 25RB_13	20450/829	1:1	0.068	-0.05	20.58	21.70	1.294	0.088	22.1
Back side	10	QPSK 25RB_13	20450/829	1:1	0.081	-0.09	20.58	21.70	1.294	0.105	22.1
Left side	10	QPSK 25RB_13	20450/829	1:1	0.095	-0.13	20.58	21.70	1.294	0.123	22.1
Top side	10	QPSK 25RB_13	20450/829	1:1	0.031	0.08	20.58	21.70	1.294	0.041	22.1
			t Test data at t		ase with B	atterv2#(Se		m 1RB)		I	
Left side	10	QPSK 1RB_25	20600/844	1:1	0.103	0.13	20.81	21.70	1.227	0.126	22.1
		_		Ant1	0 Test Rec	ord					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- q	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(1RB)	(45111)	(42111)		(**, (9)	
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.079	0.02	24.96	25.50	1.132	0.089	22.1
Left tilted	10	QPSK 1RB_0	20450/829	1:1	0.036	0.02	24.96	25.50	1.132	0.041	22.1
Right cheek	10	QPSK 1RB_0	20450/829	1:1	0.065	0.02	24.96	25.50	1.132	0.073	22.1
Right tilted	10	QPSK 1RB_0	20450/829	1:1	0.005	-0.06	24.96	25.50	1.132	0.073	22.1
ragin tillou	.0	STORTIND_0	20-100/023	l .	est data(50		27.00	20.00	1.102	0.001	۲۲.۱
Left cheek	10	QPSK 25RB_13	20450/829	1:1	0.062	-0.08	24.06	24.50	1.107	0.068	22.1
Left tilted	10	QPSK 25RB_13	20450/829	1:1	0.062	-0.08	24.06	24.50	1.107	0.088	22.1
					†						
Right cheek	10	QPSK 25RB_13	20450/829	1:1	0.053	0.07	24.06	24.50	1.107	0.058	22.1
Right tilted	10	QPSK 25RB_13	20450/829	1:1	0.037	0.03	24.06	24.50	1.107	0.041	22.1



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Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.062	0.11	24.96	25.50	1.132	0.070	22.1
			Body v	worn Test o	data(Separ	ate 15mm	1RB)				
Front side	10	QPSK 1RB_0	20450/829	1:1	0.109	0.14	24.96	25.50	1.132	0.123	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.163	0.05	24.96	25.50	1.132	0.185	22.1
			Body wo	rn Test dat	ta (Separa	te 15mm 5	0%RB)				
Front side	10	QPSK 25RB_13	20450/829	1:1	0.095	0.04	24.06	24.50	1.107	0.105	22.1
Back side	10	QPSK 25RB_13	20450/829	1:1	0.135	0.07	24.06	24.50	1.107	0.149	22.1
		Body wo	rn Test data a	t the worst	case with	Battery2#(Separate 15	mm 1RB)			
Back side	10	QPSK 1RB_0	20450/829	1:1	0.152	0.14	24.96	25.50	1.132	0.172	22.1
			Hotsp	oot Test da	ıta(Separat	e 10mm 11	RB)				
Front side	10	QPSK 1RB_0	20450/829	1:1	0.209	0.03	24.96	25.50	1.132	0.237	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.257	-0.07	24.96	25.50	1.132	0.291	22.1
Right side	10	QPSK 1RB_0	20450/829	1:1	0.086	0.01	24.96	25.50	1.132	0.097	22.1
Bottom side	10	QPSK 1RB_0	20450/829	1:1	0.188	-0.02	24.96	25.50	1.132	0.213	22.1
			Hotspo	t Test data	(Separate	10mm 50°	%RB)				
Front side	10	QPSK 25RB_13	20450/829	1:1	0.179	-0.03	24.06	24.50	1.107	0.198	22.1
Back side	10	QPSK 25RB_13	20450/829	1:1	0.242	0.04	24.06	24.50	1.107	0.268	22.1
Right side	10	QPSK 25RB_13	20450/829	1:1	0.075	0.02	24.06	24.50	1.107	0.083	22.1
Bottom side	10	QPSK 25RB_13	20450/829	1:1	0.161	0.04	24.06	24.50	1.107	0.178	22.1
		Hotspo	t Test data at t	he worst c	ase with B	attery2#(Se	eparate 10m	m 1RB)			
Back side	10	QPSK 1RB_0	20450/829	1:1	0.241	0.01	24.96	25.50	1.132	0.273	22.1

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



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8.3.9 SAR Result of LTE Band 7

			Ant1	Test Reco						
BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
			Head T	est data(1	RB)					
20	QPSK 1RB_50	20850/2510	1:1	0.243	0.03	24.38	25.50	1.294	0.314	22.1
20	PCC QPSK 1_99	20850/2510	1.1	0.212	-0.02	24 21	25 50	1 346	0.285	22.1
		21048/2529.8		0.2.12	0.02				0.200	
20	QPSK 1RB_50	20850/2510	1:1	0.099	0.19	24.38	25.50	1.294	0.128	22.1
20	_	20850/2510	1:1	0.175	-0.19	24.38	25.50	1.294	0.226	22.1
20	QPSK 1RB_50	20850/2510		1	0.13	24.38	25.50	1.294	0.144	22.1
	1	, ,	Head Te	st data(509	%RB)	I			I	
20			1:1	0.240	-0.10		24.50			22.1
	QPSK 50RB_25	20850/2510	1:1	0.084	-0.03		24.50	1.285	0.108	22.1
	QPSK 50RB_25	20850/2510	1:1	0.129	0.19		24.50	1.285	0.166	22.1
20	QPSK 50RB_25	20850/2510		0.091	-0.04	l	24.50	1.285	0.117	22.1
	T			orst case	with Batter	y2#(1RB)	-		1	
20	QPSK 1RB_50	20850/2510	1:1	0.221	0.14	24.38	25.50	1.294	0.286	22.1
			orn Test d	ata(Separa	te 15mm 1	IRB)				1
20	QPSK 1RB_50	20850/2510	1:1	0.312	0.04	24.38	25.50	1.294	0.404	22.1
20		20850/2510	1:1	0.573	-0.15	24.38	25.50	1.294	0.742	22.1
20		20850/2510	1.1	0.514	0.01	24 21	25 50	1 346	0.692	22.1
20	SCC QPSK 1_0						20.00	1.040	0.002	22.1
		Body worr	Test data	a (Separate	e 15mm 50	%RB)				
20	QPSK 50RB_25	20850/2510	1:1	0.255	-0.02	23.41	24.50	1.285	0.328	22.1
20	QPSK 50RB_25	20850/2510	1:1	0.436	0.07	23.41	24.50	1.285	0.560	22.1
		n Test data at t	he worst	case with E	Battery2#(S	Separate 15n	nm 1RB)		1	
20	QPSK 1RB_50	20850/2510	1:1	0.558	0.03	24.38	25.50	1.294	0.722	22.1
	1		t Test dat	a(Separate	2 10mm 1R	RB)	· ·		1	
20			1:1	0.180	0.15	19.62			0.220	22.1
		21100/2535.5	1:1	0.290	-0.15	19.62	20.50	1.225	0.355	22.1
			1:1		-0.02	19.62	20.50		0.104	22.1
20	QPSK 1RB_50						20.50	1.225	0.238	22.1
	1		Test data	(Separate	10mm 50%	6RB)	· ·		1	
			1:1	0.192	-0.15	19.58	20.50	1.236	0.237	22.1
20			1:1	0.305	-0.01	19.58	20.50	1.236	0.377	22.1
20			1.1	0.281	0.08	19.52	20.50	1 253	0.352	22.1
	SCC QPSK 1_0	21298/2554.8		0.201	0.00	10.02	20.00	1.200	0.002	,
20			1:1	0.112	-0.10	19.58	20.50	1.236	0.138	22.1
00	ODCK FODD FO	21100/2535.5	1:1	0.224	-0.12	19.58	20.50	1.236	0.277	22.1
20	QF3K 50KB_50				a / a					
20	Hotspot Te	est data at the	worst cas	e with Batte	ery2#(Sepa	arate 10mm				
20			1:1	0.282	0.11	19.58	50%RB) 20.50	1.236	0.349	22.1
	Hotspot Te		1:1		0.11			1.236	0.349	22.1
	Hotspot Te		1:1	0.282 Test Reco	0.11 rd	19.58 Conducted Power	20.50 Tune up Limit	1.236 Scaled factor	Scaled SAR	22.1 Liquid Temp
20	Hotspot Te QPSK 50RB_50	21100/2535.5 Test	1:1 Ant4 Duty Cycle	0.282 Test Reco SAR (W/kg) 1- g	0.11 rd Power Drift (dB)	19.58 Conducted	20.50	Scaled	Scaled	Liquid
20	Hotspot Te QPSK 50RB_50 Test mode	21100/2535.5 Test Ch./Freq.	1:1 Ant4 Duty Cycle	0.282 Test Reco SAR (W/kg) 1-	0.11 rd Power Drift (dB)	19.58 Conducted Power (dBm)	20.50 Tune up Limit	Scaled	Scaled SAR (W/kg)	Liquid
20 BW.	Hotspot Te QPSK 50RB_50 Test mode QPSK 1RB_99	21100/2535.5 Test	1:1 Ant4 Duty Cycle Head T	0.282 Test Reco SAR (W/kg) 1- g Test data(1	0.11 rd Power Drift (dB)	19.58 Conducted Power	Z0.50 Tune up Limit (dBm)	Scaled factor	Scaled SAR	Liquid Temp
20 BW.	Hotspot Te QPSK 50RB_50 Test mode	21100/2535.5 Test Ch./Freq.	1:1 Ant4 Duty Cycle Head T 1:1	0.282 Test Reco SAR (W/kg) 1- g Test data(1 0.137	O.11 rd Power Drift (dB) RB) -0.07	19.58 Conducted Power (dBm)	20.50 Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
	20 20 20 20 20 20 20 20 20 20 20 20 20 2	20 QPSK 1RB_50 20 QPSK 1_99 SCC QPSK 1_0 20 QPSK 1RB_50 20 QPSK 1RB_50 20 QPSK 50RB_25 20 QPSK 1RB_50 20 QPSK 1RB_50 20 QPSK 1RB_50 20 QPSK 50RB_25 20 QPSK 1RB_50 20 QPSK 1RB_50 20 QPSK 50RB_25 20 QPSK 1RB_50 20 QPSK 50RB_50	20 QPSK 1RB_50 20850/2510 20 QPSK 50RB_25 20850/2510 20 QPSK 1RB_50 20850/2510 20 QPSK 1_0 21048/2529.8 20 QPSK 50RB_25 20850/2510 20 QPSK 50RB_25 20850/2510 20 QPSK 50RB_25 20850/2510 20 QPSK 50RB_25 20850/2510 20 QPSK 1RB_50 21100/2535.5 20 QPSK 1RB_50 21100/2535.5 20 QPSK 1RB_50 21100/2535.5 20 QPSK 50RB_50 21100/2535.5	BW. Test mode Test Ch./Freq. Duty Cycle 20 QPSK 1RB_50 20850/2510 1:1 20 QPSK 1RB_50 20850/2510 1:1 20 PCC QPSK 1_99 20850/2510 1:1 20 QPSK 1RB_50 20850/2510 1:1 20 QPSK 1RB_50 20850/2510 1:1 20 QPSK 1RB_50 20850/2510 1:1 20 QPSK 50RB_25 20850/2510 1:1 20 QPSK 1RB_50 20850/2510 1:1 20 QPSK 50RB_25 20850/2510 1:1 20	BW. Test mode Ch./Freq. Duty Cycle Ch./Freq. Head Test data(1	No. Test mode	Name	Name	Name	BW. Test mode Ch./Freq. Cycle Cycle



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				Head Te	st data(509	%RB)					
Left cheek	20	QPSK 50RB_25	20850/2510	1:1	0.142	-0.14	15.98	17.40	1.387	0.197	22.1
Left tilted	20	QPSK 50RB 25	20850/2510	1:1	0.154	-0.04	15.98	17.40	1.387	0.214	22.1
Right cheek	20	QPSK 50RB_25	20850/2510	1:1	0.259	0.19	15.98	17.40	1.387	0.359	22.1
Right tilted	20	QPSK 50RB 25	20850/2510	1:1	0.351	-0.05	15.98	17.40	1.387	0.487	22.1
- J		PCC QPSK 1_99	20850/2510								
Right tilted	20	SCC QPSK 1_0	21048/2529.8	1:1	0.302	0.06	15.91	17.40	1.409	0.426	22.1
'		· 	lead Test data	at the wo	rst case wi	th Battery	2#(50%RB)				
Right tilted	20	QPSK 50RB_25	20850/2510	1:1	0.321	0.17	15.98	17.40	1.387	0.445	22.1
-			Body wo	orn Test d	ata(Separa	te 15mm	1RB)				
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.189	0.19	24.58	25.40	1.208	0.228	22.1
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.439	0.03	24.58	25.40	1.208	0.530	22.1
Dook side	20	PCC QPSK 1_99	20850/2510	1.1	0.204	0.17	24.24	25.40	1.076	0.400	22.4
Back side	20	SCC QPSK 1_0	21048/2529.8	1:1	0.391	-0.17	24.34	25.40	1.276	0.499	22.1
			Body worr	Test data	(Separate	15mm 50)%RB)				
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.152	0.11	23.57	24.40	1.211	0.184	22.1
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.288	-0.12	23.57	24.40	1.211	0.349	22.1
		Body wor	n Test data at t	he worst o	ase with E	attery2#(S	Separate 15	mm 1RB)			
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.411	0.14	24.58	25.40	1.208	0.496	22.1
			Hotspo	t Test dat	a(Separate	10mm 1F	RB)				
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.060	-0.05	16.15	17.40	1.334	0.080	22.1
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.114	0.05	16.15	17.40	1.334	0.152	22.1
Back side	20	PCC QPSK 1_99	20850/2510	1:1	0.102	0.11	15.91	17.40	1.409	0.144	22.1
Dack side	20	SCC QPSK 1_0	21048/2529.8	1.1	0.102	0.11	10.01	17.40	1.403	0.144	22.1
Left side	20	QPSK 1RB_99	20850/2510	1:1	0.024	0.01	16.15	17.40	1.334	0.032	22.1
Top side	20	QPSK 1RB_99	20850/2510	1:1	0.095	-0.04	16.15	17.40	1.334	0.127	22.1
		T	Hotspot [*]	Test data	(Separate	10mm 50%	6RB)				
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.052	0.18	15.98	17.40	1.387	0.072	22.1
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.108	-0.09	15.98	17.40	1.387	0.150	22.1
Left side	20	QPSK 50RB_25	20850/2510	1:1	0.035	0.08	15.98	17.40	1.387	0.049	22.1
Top side	20	QPSK 50RB_25	20850/2510	1:1	0.089	0.08	15.98	17.40	1.387	0.124	22.1
			Test data at the							T	
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.102	-0.03	16.15	17.40	1.334	0.136	22.1
		T	1	Ant8	Test Reco						
Test position	BW.	Test mode	Test	Duty	SAR (W/kg) 1-	Power	Conducted Power	Limit	Scaled	Scaled SAR	Liquid
rest position	D 111.	rest mode	Ch./Freq.	Cycle	(W/kg) 1- g	Drift (dB)	(dBm)	(dBm)	factor	(W/kg)	Temp
				Head T	est data(1	RB)					
Left cheek	20		21100/2535.5	1:1	0.258	0.00	18.36	19.00	1.159	0.299	22.1
Left tilted	20		21100/2535.5	1:1	0.020	-0.04	18.36	19.00	1.159	0.023	22.1
Right cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.239	-0.16	18.36	19.00	1.159	0.277	22.1
Right tilted	20	QPSK 1RB_99	21100/2535.5	1:1	0.052	-0.16	18.36	19.00	1.159	0.060	22.1
				Head Te	st data(509	%RB)					
Left cheek	20	QPSK 50RB_25	20850/2510	1:1	0.268	-0.03	18.32	19.00	1.169	0.313	22.1
Left cheek	20	PCC QPSK 1_99	20850/2510	1:1	0.247	0.11	18.25	19.00	1.189	0.294	22.1
	0		21048/2529.8								
Left tilted	20	QPSK 50RB_25	20850/2510	1:1	0.019	0.08	18.32	19.00	1.169	0.022	22.1
Right cheek	20	QPSK 50RB_25	20850/2510	1:1	0.245	0.05	18.32	19.00	1.169	0.287	22.1
Right tilted	20	QPSK 50RB_25	20850/2510	1:1	0.065	0.17	18.32	19.00	1.169	0.076	22.1
			lead Test data							1	
Left cheek	20	QPSK 50RB_25	20850/2510	1:1	0.237	0.18	18.32	19.00	1.169	0.277	22.1
		T			ata(Separa			T = 1 - 1		T = · ·	
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.040	0.10	19.21	20.00	1.199	0.048	22.1



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Back side	20	QPSK 1RB_99	20850/2510	1:1	0.043	0.11	19.21	20.00	1.199	0.051	22.1
Dack side	20	QI SK IKD_99			a (Separate			20.00	1.133	0.001	22.1
Front side	20	QPSK 50RB_0	20850/2510	1:1	0.046	-0.06	19.32	20.00	1.169	0.054	22.1
Back side	20	QPSK 50RB_0	20850/2510	1:1	0.048	0.13	19.32	20.00	1.169	0.054	22.1
Dack Side	20	PCC QPSK 1_99	20850/2510	1.1	0.046	0.13	19.32	20.00	1.109	0.030	22.1
Back side	20		21048/2529.8	1:1	0.039	-0.10	19.14	20.00	1.219	0.048	22.1
			Test data at the	e worst ca	L with Ra	ttory2#(So	narate 15mr	n 50%RR)			
Back side	20	QPSK 50RB_0	20850/2510	1:1	0.039	0.11	19.32	20.00	1.169	0.046	22.1
Back side		Q1 ON OOND_0	1		a(Separate			20.00	1.100	0.040	22.1
Front side	20	QPSK 1RB 99	21100/2535.5	1:1	0.084	0.09	18.36	19.00	1.159	0.097	22.1
Back side	20		21100/2535.5	1:1	0.082	0.18	18.36	19.00	1.159	0.095	22.1
Left side	20		21100/2535.5	1:1	0.108	0.09	18.36	19.00	1.159	0.125	22.1
Lort olde		QI OR IND_00			(Separate		l	10.00	1.100	0.120	22.1
Front side	20	QPSK 50RB_25	20850/2510	1:1	0.088	-0.15	18.32	19.00	1.169	0.103	22.1
Back side	20	QPSK 50RB_25	20850/2510	1:1	0.087	0.04	18.32	19.00	1.169	0.102	22.1
Left side	20	QPSK 50RB_25	20850/2510	1:1	0.112	0.19	18.32	19.00	1.169	0.131	22.1
2011 0.00		PCC QPSK 1_99	20850/2510				10.02	10.00		001	
Left side	20		21048/2529.8	1:1	0.098	0.08	18.25	19.00	1.189	0.116	22.1
			est data at the	worst case	e with Batto	erv2#(Sepa	arate 10mm	50%RB)			
Left side	20	QPSK 50RB_25	20850/2510	1:1	0.093	0.01	18.32	19.00	1.169	0.109	22.1
					Test Reco			10100			
			Toot		SAR		Conducted	Tune up	Cooled	Scaled	Liamid
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	Scaled factor	SAR	Liquid Temp
			Omir roqi	-	y		(dBm)	(dBm)	idotoi	(W/kg)	· op
Latinalia al		ODOK 4DD 00	04400/0505 5		est data(1		04.05	04.50	4.050	0.004	00.4
Left cheek	20		21100/2535.5	1:1	0.211	0.04	24.25	24.50	1.059	0.224	22.1
Left tilted	20		21100/2535.5	1:1	0.166	0.00	24.25	24.50	1.059	0.176	22.1
Right cheek	20		21100/2535.5	1:1	0.321	0.09	24.25	24.50	1.059	0.340	22.1
Right cheek	20	PCC QPSK 1_99	21100/2535 21298/2554.8	1:1	0.304	-0.15	24.12	24.50	1.091	0.332	22.1
Right tilted	20		21296/2554.6 21100/2535.5	1:1	0.116	-0.05	24.25	24.50	1.059	0.123	22.1
Night tilted	20	QI SK IKD_99	21100/2333.3		st data(50%		24.23	24.50	1.000	0.123	22.1
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.165	-0.12	23.18	23.50	1.076	0.178	22.1
Left tilted	20					-0.12	23.10		1.076		
Right cheek	20	I OPSK SORR SO	1 20850/2510 1		0.213	0.00	23 18	1 23 50		U 550	22.1
rtigiti oncon	20	QPSK 50RB_50	20850/2510	1:1	0.213	0.00	23.18	23.50		0.229	22.1
	20	QPSK 50RB_50	20850/2510	1:1	0.309	-0.01	23.18	23.50	1.076	0.333	22.1
Right tilted	20		20850/2510 20850/2510	1:1 1:1	0.309 0.095	-0.01 0.18	23.18 23.18				
Right tilted	20	QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 Head Test da	1:1 1:1 ta at the w	0.309 0.095 vorst case v	-0.01 0.18 with Batter	23.18 23.18 y2#(1RB)	23.50 23.50	1.076 1.076	0.333 0.102	22.1 22.1
		QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 Head Test dar 21100/2535.5	1:1 1:1 ta at the w 1:1	0.309 0.095 vorst case v	-0.01 0.18 with Batter 0.03	23.18 23.18 y2#(1RB) 24.25	23.50	1.076	0.333	22.1
Right tilted	20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wo	1:1 1:1 ta at the w 1:1	0.309 0.095 vorst case v	-0.01 0.18 with Batter 0.03	23.18 23.18 y2#(1RB) 24.25	23.50 23.50 24.50	1.076 1.076 1.059	0.333 0.102 0.321	22.1 22.1
Right tilted Right cheek Front side	20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wo 21100/2535.5	1:1 1:1 ta at the w 1:1 orn Test da	0.309 0.095 vorst case v 0.303 ata(Separa 0.183	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03	23.18 23.18 y2#(1RB) 24.25 RB) 24.25	23.50 23.50 24.50 24.50	1.076 1.076 1.059	0.333 0.102 0.321 0.194	22.1 22.1 22.1
Right tilted Right cheek Front side Back side	20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wo	1:1 1:1 ta at the w 1:1 orn Test da 1:1 1:1	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25	23.50 23.50 24.50 24.50 24.50	1.076 1.076 1.059 1.059 1.059	0.333 0.102 0.321 0.194 0.314	22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side	20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5	1:1 1:1 ta at the w 1:1 orn Test da	0.309 0.095 vorst case v 0.303 ata(Separa 0.183	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03	23.18 23.18 y2#(1RB) 24.25 RB) 24.25	23.50 23.50 24.50 24.50	1.076 1.076 1.059	0.333 0.102 0.321 0.194	22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side	20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535.5 21298/2554.8	1:1 1:1 ta at the w 1:1 orn Test da 1:1 1:1	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12	23.50 23.50 24.50 24.50 24.50	1.076 1.076 1.059 1.059 1.059	0.333 0.102 0.321 0.194 0.314	22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side	20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535.5 21298/2554.8	1:1 1:1 ta at the w 1:1 orn Test da 1:1 1:1	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12	23.50 23.50 24.50 24.50 24.50	1.076 1.076 1.059 1.059 1.059	0.333 0.102 0.321 0.194 0.314	22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side	20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535 21298/2554.8 Body worn	1:1 1:1 ta at the w 1:1 brn Test da 1:1 1:1 1:1	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296 0.271 a (Separate	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12	23.50 23.50 24.50 24.50 24.50 24.50	1.076 1.076 1.059 1.059 1.059 1.091	0.333 0.102 0.321 0.194 0.314 0.296	22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side Front side	20 20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535.5 21298/2554.8 Body worn 20850/2510	1:1 1:1 ta at the w 1:1 orn Test da 1:1 1:1 1:1 1:1 1:1 1:1 1:1	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296 0.271 a (Separate 0.156 0.219	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17 e 15mm 50 0.03 0.02	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12 %RB) 23.18	23.50 23.50 24.50 24.50 24.50 24.50 23.50	1.076 1.076 1.059 1.059 1.059 1.091	0.333 0.102 0.321 0.194 0.314 0.296	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side Front side	20 20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0 QPSK 50RB_50 QPSK 50RB_50 Body worr	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535 21298/2554.8 Body worn 20850/2510 20850/2510	1:1 1:1 ta at the w 1:1 orn Test da 1:1 1:1 1:1 1:1 the worst of	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296 0.271 a (Separate 0.156 0.219	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17 e 15mm 50 0.03 0.02	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12 %RB) 23.18	23.50 23.50 24.50 24.50 24.50 24.50 23.50	1.076 1.076 1.059 1.059 1.059 1.091	0.333 0.102 0.321 0.194 0.314 0.296	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side Front side Back side	20 20 20 20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0 QPSK 50RB_50 QPSK 50RB_50 Body worr	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535 21298/2554.8 Body worn 20850/2510 20850/2510 Test data at t 21100/2535.5	1:1 1:1 ta at the w 1:1 orn Test da 1:1 1:1 1:1 1:1 1:1 the worst o 1:1	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296 0.271 a (Separate 0.156 0.219 case with B 0.268	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17 e 15mm 50 0.03 0.02 sattery2#(S	23.18 23.18 y2#(1RB) 24.25 RB) 24.25 24.25 24.12 9%RB) 23.18 23.18 23.18 24.25	23.50 23.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50	1.076 1.059 1.059 1.059 1.091 1.076 1.076	0.333 0.102 0.321 0.194 0.314 0.296	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side Front side Back side	20 20 20 20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0 QPSK 50RB_50 QPSK 50RB_50 Body worr QPSK 1RB_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535 21298/2554.8 Body worn 20850/2510 20850/2510 Test data at t 21100/2535.5	1:1 1:1 ta at the w 1:1 orn Test data 1:1 1:1 1:1 the worst of 1:1 to Test data	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296 0.271 a (Separate 0.156 0.219 case with B	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17 e 15mm 50 0.03 0.02 sattery2#(S	23.18 23.18 y2#(1RB) 24.25 RB) 24.25 24.25 24.12 9%RB) 23.18 23.18 23.18 24.25	23.50 23.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50	1.076 1.059 1.059 1.059 1.091 1.076 1.076	0.333 0.102 0.321 0.194 0.314 0.296	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side Front side Back side Back side	20 20 20 20 20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0 QPSK 50RB_50 QPSK 50RB_50 Body worr QPSK 1RB_99 QPSK 1RB_99	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535 21298/2554.8 Body worr 20850/2510 20850/2510 Test data at t 21100/2535.5 Hotspo	1:1 1:1 ta at the w 1:1 orn Test data 1:1 1:1 1:1 the worst of 1:1 to Test data	0.309 0.095 vorst case v 0.303 ata(Separa 0.183 0.296 0.271 a (Separate 0.156 0.219 case with B 0.268 a(Separate	-0.01 0.18 with Batter 0.03 te 15mm 1 0.03 0.02 0.17 e 15mm 50 0.03 0.02 sattery2#(S 0.07 e 10mm 1R	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12 %RB) 23.18 23.18 23.18 Separate 15r 24.25	23.50 23.50 24.50 24.50 24.50 24.50 23.50 23.50 nm 1RB) 24.50	1.076 1.079 1.059 1.059 1.091 1.076 1.076	0.333 0.102 0.321 0.194 0.314 0.296 0.168 0.236	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Right cheek Front side Back side Back side Front side Back side Front side Back side	20 20 20 20 20 20 20 20 20 20	QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 PCC QPSK 1_99 SCC QPSK 1_0 QPSK 50RB_50 QPSK 50RB_50 Body worr QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_50 QPSK 1RB_50	20850/2510 20850/2510 Head Test da 21100/2535.5 Body wc 21100/2535.5 21100/2535.5 21100/2535 21298/2554.8 Body worn 20850/2510 20850/2510 1 Test data at t 21100/2535.5 Hotspo 21100/2535.5	1:1 1:1 ta at the w 1:1 orn Test data 1:1 1:1 the worst of 1:1 the worst of 1:1 the worst of 1:1 the worst of 1:1	0.309 0.095 vorst case v 0.303 ata(Separate 0.183 0.296 0.271 a (Separate 0.156 0.219 case with B 0.268 a(Separate 0.093	-0.01 0.18 with Batter 0.03 tte 15mm 1 0.03 0.02 0.17 e 15mm 50 0.03 0.02 sattery2#(S 0.07 e 10mm 1R 0.03	23.18 23.18 y2#(1RB) 24.25 IRB) 24.25 24.25 24.12 %RB) 23.18 23.18 Separate 15r 24.25 RB) 19.27	23.50 23.50 24.50 24.50 24.50 24.50 23.50 23.50 nm 1RB) 24.50	1.076 1.059 1.059 1.059 1.076 1.076 1.076	0.333 0.102 0.321 0.194 0.314 0.296 0.168 0.236 0.284	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1



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Hotspot Test data (Separate 10mm 50%RB)												
Front side	20	QPSK 50RB_0	21100/2535.5	1:1	0.099	0.03	18.92	19.50	1.143	0.113	22.1	
Back side	20	QPSK 50RB_0	21100/2535.5	1:1	0.138	0.13	18.92	19.50	1.143	0.158	22.1	
Right side	20	QPSK 50RB_0	21100/2535.5	1:1	0.205	-0.06	18.92	19.50	1.143	0.234	22.1	
Right side	20	PCC QPSK 1_99	21100/2535	1:1	0.178	0.04	19.13	19.50	1.089	0.194	22.1	
Right side	20	SCC QPSK 1_0	21298/2554.8	1.1	0.176	0.04	19.13	19.50	1.009	0.194	22.1	
Bottom side	20	QPSK 50RB_0	21100/2535.5	1:1	0.039	0.15	18.92	19.50	1.143	0.045	22.1	
		Hotspot Te	est data at the	worst case	with Batte	ery2#(Sepa	arate 10mm	50%RB)				
Right side	20	QPSK 50RB_0	21100/2535.5	1:1	0.183	-0.04	18.92	19.50	1.143	0.209	22.1	

				Ant1(EN	DC) Test F	Record					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head ⁻	Test data(1	RB)					
Left cheek	20	QPSK 1RB_0	21350/2560	1:1	0.157	0.02	21.86	23.30	1.393	0.219	22.1
Left tilted	20	QPSK 1RB_0	21350/2560	1:1	0.052	0.06	21.86	23.30	1.393	0.072	22.1
Right cheek	20	QPSK 1RB_0	21350/2560	1:1	0.105	0.08	21.86	23.30	1.393	0.146	22.1
Right tilted	20	QPSK 1RB_0	21350/2560	1:1	0.096	-0.15	21.86	23.30	1.393	0.134	22.1
				Head Te	est data(50	%RB)					
Left cheek	20	QPSK 50RB_25	21350/2560	1:1	0.145	0.10	20.76	22.30	1.426	0.207	22.1
Left tilted	20	QPSK 50RB_25	21350/2560	1:1	0.044	0.19	20.76	22.30	1.426	0.063	22.1
Right cheek	20	QPSK 50RB_25	21350/2560	1:1	0.086	-0.12	20.76	22.30	1.426	0.123	22.1
Right tilted	20	QPSK 50RB_25	21350/2560	1:1	0.071	0.19	20.76	22.30	1.426	0.101	22.1
			Head Test da	ata at the	worst case	with Batte	ry2#(1RB)				
Left cheek	20	QPSK 1RB_0	21350/2560	1:1	0.132	0.11	21.86	23.30	1.393	0.184	22.1
			Body w	vorn Test o	data(Separ	ate 15mm	1RB)				
Front side	20	QPSK 1RB_0	21350/2560	1:1	0.217	0.02	21.86	23.30	1.393	0.302	22.1
Back side	20	QPSK 1RB_0	21350/2560	1:1	0.257	0.01	21.86	23.30	1.393	0.358	22.1
			Body wor	rn Test dat	a (Separat	e 15mm 50	0%RB)				
Front side	20	QPSK 50RB_25	21350/2560	1:1	0.169	0.07	20.76	22.30	1.426	0.241	22.1
Back side	20	QPSK 50RB_25	21350/2560	1:1	0.232	0.14	20.76	22.30	1.426	0.331	22.1
		Body wor	n Test data at	the worst	case with I	Battery2#(Separate 15r	mm 1RB)			
Back side	20	QPSK 1RB_0	21350/2560	1:1	0.234	-0.13	21.86	23.30	1.393	0.326	22.1
			Hotsp	ot Test da	ta(Separat	e 10mm 1F	RB)				
Front side	20	QPSK 1RB_50	21100/2535.5	1:1	0.132	0.18	17.02	18.30	1.343	0.177	22.1
Back side	20	QPSK 1RB_50	21100/2535.5	1:1	0.152	-0.04	17.02	18.30	1.343	0.204	22.1
Left side	20	QPSK 1RB_50	21100/2535.5	1:1	0.073	0.01	17.02	18.30	1.343	0.098	22.1
Bottom side	20	QPSK 1RB_50	21100/2535.5	1:1	0.125	-0.11	17.02	18.30	1.343	0.168	22.1
			Hotspot	Test data	(Separate	10mm 509	%RB)				
Front side	20	QPSK 50RB_25	21100/2535.5	1:1	0.137	-0.06	16.93	18.30	1.371	0.188	22.1
Back side	20	QPSK 50RB_25	21100/2535.5	1:1	0.150	0.05	16.93	18.30	1.371	0.206	22.1
Left side	20	QPSK 50RB_25	21100/2535.5	1:1	0.074	-0.19	16.93	18.30	1.371	0.101	22.1
Bottom side	20	QPSK 50RB_25	21100/2535.5	1:1	0.127	0.10	16.93	18.30	1.371	0.174	22.1
		Hotspot T	est data at the	worst cas	se with Batt	tery2#(Sep	arate 10mm	50%RB)			
Back side	20	QPSK 50RB_25	21100/2535.5	1:1	0.114	0.17	16.93	18.30	1.371	0.156	22.1
				Ant4(EN	DC) Test F	Record					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
Left cheek	20	QPSK 1RB 50	21100/2525 5		Test data(1 0.086		13.32	14.50	1.312	0.112	22.1
	20	_				0.05				0.113	
Left tilted	∠0	QPSK 1RB_50	Z I 100/2535.5	1:1	0.090	-0.07	13.32	14.50	1.312	0.118	22.1



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		I	L		1	1	1	1		1	1
Right cheek	20	QPSK 1RB_50		1:1	0.142	-0.08	13.32	14.50	1.312	0.186	22.1
Right tilted	20	QPSK 1RB_50	21100/2535.5	1:1	0.177	-0.02	13.32	14.50	1.312	0.232	22.1
		0.001/.000.0			st data(50		10.01				
Left cheek	20	QPSK 50RB_0	20850/2510	1:1	0.088	-0.14	13.24	14.50	1.337	0.118	22.1
Left tilted	20	QPSK 50RB_0	20850/2510	1:1	0.094	0.12	13.24	14.50	1.337	0.126	22.1
Right cheek	20	QPSK 50RB_0	20850/2510	1:1	0.150	0.18	13.24	14.50	1.337	0.200	22.1
Right tilted	20	QPSK 50RB_0	20850/2510	1:1	0.184	-0.17	13.24	14.50	1.337	0.246	22.1
Dialet tilte d		_	Head Test dat					44.50	4.007	0.045	20.4
Right tilted	20	QPSK 50RB_0		1:1	0.161	0.03	13.24	14.50	1.337	0.215	22.1
Front side	20	QPSK 1RB 0	21350/2560			ate 15mm		22.50	1 422	0.120	22.4
Front side	20	_		1:1 1:1	0.091 0.160	0.15 -0.02	20.94	22.50 22.50	1.432	0.130	22.1 22.1
Back side	20	QPSK 1RB_0	21350/2560			e 15mm 50		22.50	1.432	0.229	22.1
Front side	20	QPSK 50RB_25	•	1:1	0.076	0.03	19.78	21.50	1.486	0.112	22.1
Back side	20	QPSK 50RB_25		1:1	0.076	0.03	19.78	21.50	1.486	0.113 0.207	22.1
Dack Side	20		n Test data at			L			1.400	0.207	22.1
Back side	20	QPSK 1RB_0		1:1	0.143	0.18	20.94	22.50	1.432	0.205	22.1
Dack Side	20	QF3K IKB_0				e 10mm 1F		22.30	1.432	0.203	22.1
Front side	20	QPSK 1RB_50		1:1	0.031	-0.03	13.32	14.50	1.312	0.041	22.1
Back side	20	QPSK 1RB_50		1:1	0.062	-0.01	13.32	14.50	1.312	0.041	22.1
Left side	20	QPSK 1RB_50		1:1	0.002	0.18	13.32	14.50	1.312	0.003	22.1
Top side	20	QPSK 1RB_50		1:1	0.052	0.10	13.32	14.50	1.312	0.068	22.1
1 op side	20	QI OIL ILD_00				10mm 50%		14.00	1.012	0.000	22.1
Front side	20	QPSK 50RB_0	20850/2510	1:1	0.016	0.08	13.24	14.50	1.337	0.021	22.1
Back side	20	QPSK 50RB_0	20850/2510	1:1	0.062	0.01	13.24	14.50	1.337	0.083	22.1
Left side	20	QPSK 50RB_0	20850/2510	1:1	0.001	0.04	13.24	14.50	1.337	0.001	22.1
Top side	20	QPSK 50RB_0	20850/2510	1:1	0.056	0.14	13.24	14.50	1.337	0.075	22.1
rop diad			est data at the						1.007	0.070	
Back side	20	QPSK 50RB_0		1:1	0.047	0.13	13.24	14.50	1.337	0.063	22.1
		4. 0000			DC) Test F						
			Test		SAR		Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Power Drift (dB)	Power	Limit	factor	SAR	Temp
					Sest data(1		(dBm)	(dBm)		(W/kg)	
Left cheek	20	QPSK 1RB_99	20850/2510	i leau i	esi ualai i	IDD\					
Left tilted		QI SIN IIND_99		1.1	· ·	· '	10.32	10.50	1 0/12	0.317	22.1
Right cheek	201			1:1	0.304	-0.05	19.32	19.50	1.042	0.317	22.1
	20	QPSK 1RB_99	20850/2510	1:1	0.304 0.033	-0.05 0.18	19.32	19.50	1.042	0.034	22.1
	20	QPSK 1RB_99 QPSK 1RB_99	20850/2510 20850/2510	1:1 1:1	0.304 0.033 0.247	-0.05 0.18 0.12	19.32 19.32	19.50 19.50	1.042 1.042	0.034 0.257	22.1 22.1
Right tilted		QPSK 1RB_99	20850/2510 20850/2510	1:1 1:1 1:1	0.304 0.033 0.247 0.079	-0.05 0.18 0.12 0.00	19.32	19.50	1.042	0.034	22.1
Right tilted	20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99	20850/2510 20850/2510 20850/2510	1:1 1:1 1:1 Head Te	0.304 0.033 0.247 0.079 est data(50	-0.05 0.18 0.12 0.00 %RB)	19.32 19.32 19.32	19.50 19.50 19.50	1.042 1.042 1.042	0.034 0.257 0.082	22.1 22.1 22.1
Right tilted Left cheek	20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560	1:1 1:1 1:1 Head Te	0.304 0.033 0.247 0.079 est data(50 0.415	-0.05 0.18 0.12 0.00 %RB) 0.01	19.32 19.32 19.32	19.50 19.50 19.50	1.042 1.042 1.042 1.084	0.034 0.257 0.082 0.450	22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted	20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560	1:1 1:1 1:1 Head Te 1:1	0.304 0.033 0.247 0.079 sst data(50 0.415 0.052	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18	19.32 19.32 19.32 19.15 19.15	19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084	0.034 0.257 0.082 0.450 0.056	22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560	1:1 1:1 1:1 Head Te 1:1 1:1	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08	19.32 19.32 19.32 19.15 19.15 19.15	19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338	22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted	20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560	1:1 1:1 1:1 Head Te 1:1 1:1 1:1	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312 0.105	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12	19.32 19.32 19.32 19.15 19.15 19.15	19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084	0.034 0.257 0.082 0.450 0.056	22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat	1:1 1:1 1:1 Head Te 1:1 1:1 1:1 a at the wo	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312 0.105 orst case w	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery	19.32 19.32 19.32 19.15 19.15 19.15 19.15 2#(50%RB)	19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338 0.114	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560	1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 a at the wo	0.304 0.033 0.247 0.079 sst data(50 0.415 0.052 0.312 0.105 orst case w 0.397	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery 0.16	19.32 19.32 19.32 19.15 19.15 19.15 19.15 2#(50%RB) 19.15	19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338	22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body w	1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 a at the wo	0.304 0.033 0.247 0.079 st data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separa	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery	19.32 19.32 19.32 19.15 19.15 19.15 19.15 2#(50%RB) 19.15 1RB)	19.50 19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338 0.114	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side	20 20 20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body w 21350/2560	1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 a at the wo 1:1	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separa 0.088	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery 0.16 ate 15mm 0.02	19.32 19.32 19.32 19.15 19.15 19.15 19.15 2#(50%RB) 19.15 1RB)	19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338 0.114 0.430	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek	20 20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body w 21350/2560 21350/2560	1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 2 at the wo 1:1 vorn Test d 1:1 1:1	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separa 0.088 0.063	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 ith Battery 0.16 ate 15mm 0.02 -0.16	19.32 19.32 19.32 19.15 19.15 19.15 19.15 2#(50%RB) 19.15 1RB) 20.31 20.31	19.50 19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338 0.114	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side	20 20 20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body w 21350/2560 Body work	1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 2 at the wo 1:1 vorn Test d 1:1 1:1	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separa 0.088 0.063	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery 0.16 ate 15mm 0.02	19.32 19.32 19.32 19.15 19.15 19.15 19.15 2#(50%RB) 19.15 1RB) 20.31 20.31	19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338 0.114 0.430	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body w 21350/2560 21350/2560 Body wor 20850/2510	1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 1:1 a at the wo 1:1 vorn Test d 1:1 1:1 n Test dat	0.304 0.033 0.247 0.079 est data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separat	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery 0.16 ate 15mm 0.02 -0.16 e 15mm 50	19.32 19.32 19.32 19.15 19.15 19.15 22#(50%RB) 19.15 1RB) 20.31 20.31 20.31	19.50 19.50 19.50 19.50 19.50 19.50 19.50 20.50 20.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084 1.084 1.045 1.045	0.034 0.257 0.082 0.450 0.056 0.338 0.114 0.430 0.092 0.066	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body wo 21350/2560 21350/2560 Body wor 20850/2510 20850/2510	1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 /orn Test d 1:1 1:1 n Test data 1:1 1:1	0.304 0.033 0.247 0.079 sst data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separat 0.088 0.063 a (Separat 0.074 0.065	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery 0.16 ate 15mm 0.02 -0.16 e 15mm 50 0.12 0.16	19.32 19.32 19.32 19.15 19.15 19.15 2#(50%RB) 19.15 1RB) 20.31 20.31 20.31 20.31 20.16	19.50 19.50 19.50 19.50 19.50 19.50 19.50 20.50 20.50 20.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084 1.084 1.084	0.034 0.257 0.082 0.450 0.056 0.338 0.114 0.430 0.092 0.066	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20 20 20	QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50	20850/2510 20850/2510 20850/2510 21350/2560 21350/2560 21350/2560 21350/2560 Head Test dat 21350/2560 Body word 21350/2560 21350/2560 20850/2510 20850/2510 n Test data at	1:1 1:1 1:1 Head Te 1:1 1:1 1:1 1:1 1:1 1:1 /orn Test d 1:1 1:1 n Test data 1:1 1:1	0.304 0.033 0.247 0.079 sst data(50 0.415 0.052 0.312 0.105 orst case w 0.397 ata(Separat 0.088 0.063 a (Separat 0.074 0.065	-0.05 0.18 0.12 0.00 %RB) 0.01 0.18 -0.08 0.12 vith Battery 0.16 ate 15mm 0.02 -0.16 e 15mm 50 0.12 0.16	19.32 19.32 19.32 19.15 19.15 19.15 2#(50%RB) 19.15 1RB) 20.31 20.31 20.31 20.31 20.16	19.50 19.50 19.50 19.50 19.50 19.50 19.50 20.50 20.50 20.50	1.042 1.042 1.042 1.084 1.084 1.084 1.084 1.084 1.045 1.045	0.034 0.257 0.082 0.450 0.056 0.338 0.114 0.430 0.092 0.066	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1



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			Hotsn	ot Test da	ta(Separat	e 10mm 1l	RB)				
Front side	20	QPSK 1RB_50		1:1	0.124	0.11	20.31	20.50	1.045	0.130	22.1
Back side	20	QPSK 1RB_50		1:1	0.124	0.06	20.31	20.50	1.045	0.106	22.1
Left side	20	QPSK 1RB_50		1:1	0.101	0.00	20.31	20.50	1.045	0.100	22.1
Left Side	20	QPSK IKB_50			(Separate			20.50	1.043	0.129	22.1
Front side	20	QPSK 50RB_50		1:1	0.125	-0.03	20.16	20.50	1.081	0.135	22.1
Back side	20	QPSK 50RB_50		1:1	0.100	0.03	20.16	20.50	1.081	0.108	22.1
Left side	20	QPSK 50RB_50		1:1	0.100	-0.08	20.16	20.50	1.081	0.100	22.1
Left side	20		est data at the				1		1.001	0.123	22.1
Front side	20	QPSK 50RB_50		1:1	0.107	0.08	20.16	20.50	1.081	0.116	22.1
1 Torit side		QT OIX SOIXB_SO	20030/2310		IDC) Test		20.10	20.50	1.001	0.110	22.1
T					SAR	_	Conducted	Tune un		Scaled	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg) 1-	Power Drift (dB)	Power (dBm)	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
				Head ⁻	Test data(1	RB)		,			
Left cheek	20	QPSK 1RB_0	21350/2560	1:1	0.344	-0.06	25.09	25.50	1.099	0.378	22.1
Left tilted	20	QPSK 1RB_0	21350/2560	1:1	0.303	-0.13	25.09	25.50	1.099	0.333	22.1
Right cheek	20	QPSK 1RB_0	21350/2560	1:1	0.534	0.04	25.09	25.50	1.099	0.587	22.1
Right tilted	20	QPSK 1RB_0	21350/2560	1:1	0.205	0.10	25.09	25.50	1.099	0.225	22.1
				Head Te	est data(50	%RB)					
Left cheek	20	QPSK 50RB_25	21350/2560	1:1	0.296	-0.08	24.26	24.50	1.057	0.313	22.1
Left tilted	20	QPSK 50RB_25	21350/2560	1:1	0.253	0.19	24.26	24.50	1.057	0.267	22.1
Right cheek	20	QPSK 50RB_25	21350/2560	1:1	0.522	-0.06	24.26	24.50	1.057	0.552	22.1
Right tilted	20	QPSK 50RB_25	21350/2560	1:1	0.170	0.05	24.26	24.50	1.057	0.180	22.1
			Head Test d	ata at the v	worst case	with Batte	ry2#(1RB)				
Right cheek	20	QPSK 1RB_0	21350/2560	1:1	0.509	-0.04	25.09	25.50	1.099	0.559	22.1
				orn Test c	lata(Separa	ate 15mm	1RB)				
Front side	20	QPSK 1RB_0	21350/2560	1:1	0.337	0.16	25.09	25.50	1.099	0.370	22.1
Back side	20	QPSK 1RB_0	21350/2560	1:1	0.551	0.05	25.09	25.50	1.099	0.606	22.1
					a (Separat	e 15mm 5	1			ı	
Front side	20	QPSK 50RB_25		1:1	0.282	0.08	24.26	24.50	1.057	0.298	22.1
Back side	20	QPSK 50RB_25		1:1	0.440	0.14	24.26	24.50	1.057	0.465	22.1
			n Test data at							T	
Back side	20	QPSK 1RB_0	21350/2560	1:1	0.527	0.01	25.09	25.50	1.099	0.579	22.1
Enant 11		0001/455 6			ta(Separat		· '	00.50	4.05.4	0.4.10	00.4
Front side	20	QPSK 1RB_0	20850/2510	1:1	0.136	-0.02	20.27	20.50	1.054	0.143	22.1
Back side	20	QPSK 1RB_0	20850/2510	1:1	0.186	0.06	20.27	20.50	1.054	0.196	22.1
Right side	20	QPSK 1RB_0	20850/2510	1:1	0.334	-0.06	20.27	20.50	1.054	0.352	22.1
Bottom side	20	QPSK 1RB_0	20850/2510	1:1	0.055	-0.19	20.27	20.50	1.054	0.058	22.1
Front side	20	QPSK 50RB_50			(Separate 0.187		· '	20.50	1.064	0.100	22.1
Back side	20	QPSK 50RB_50			0.187	0.11 -0.02	20.23	20.50	1.064	0.199 0.252	22.1
Right side	20	QPSK 50RB_50			0.257	-0.02	20.23	20.50	1.064	0.232	22.1
Bottom side	20	QPSK 50RB_50			0.332	-0.01	20.23	20.50	1.064	0.375	22.1
Bottom side	20		est data at the				1		1.004	0.000	ZZ. I
Right side	20	QPSK 50RB_50			0.322	0.17	20.23	20.50	1.064	0.343	22.1
rtigitt side	20	Z. C. COULD_00	100/2000.0	1.1	0.022	0.17	20.20	20.00	1.007	0.070	££. I

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



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8.3.10SAR Result of LTE Band 12

				Ant	2 Test Rec						
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(1RB)					
Left cheek	10	QPSK 1RB_25	23060/704	1:1	0.175	0.03	21.76	22.70	1.242	0.217	22.1
Left tilted	10	QPSK 1RB_25	23060/704	1:1	0.133	0.05	21.76	22.70	1.242	0.165	22.1
Right cheek	10	QPSK 1RB_25	23060/704	1:1	0.441	0.07	21.76	22.70	1.242	0.548	22.1
Right tilted	10	QPSK 1RB_25	23060/704	1:1	0.290	-0.03	21.76	22.70	1.242	0.360	22.1
				Head T	est data(50	0%RB)					
Left cheek	10	QPSK 25RB_25		1:1	0.204	0.15	21.64	22.70	1.276	0.260	22.1
Left tilted	10	QPSK 25RB_25		1:1	0.147	0.02	21.64	22.70	1.276	0.188	22.1
Right cheek	10	QPSK 25RB_25	23095/707.5	1:1	0.509	-0.04	21.64	22.70	1.276	0.650	22.1
Right tilted	10	QPSK 25RB_25		1:1	0.300	-0.05	21.64	22.70	1.276	0.383	22.1
			Head Test da		orst case v	vith Battery	/2#(50%RB)			,	
Right cheek	10	QPSK 25RB_25	23095/707.5	1:1	0.485	0.14	21.64	22.70	1.276	0.619	22.1
				worn Test	data(Sepa	rate 15mm	1RB)		•	,	
Front side	10	QPSK 1RB_49		1:1	0.149	-0.01	24.92	25.70	1.197	0.178	22.1
Back side	10	QPSK 1RB_49	11	1:1	0.165	-0.08	24.92	25.70	1.197	0.197	22.1
				rn Test da	ta (Separa	te 15mm 5	0%RB)				
Front side	10	QPSK 25RB_13	23060/704	1:1	0.142	-0.09	24.04	24.70	1.164	0.165	22.1
Back side	10	QPSK 25RB_13	23060/704	1:1	0.140	0.00	24.04	24.70	1.164	0.163	22.1
		Body wor	n Test data a	t the wors	t case with	Battery2#(Separate 15	mm 1RB)			
Back side	10	QPSK 1RB_49		1:1	0.147	0.03	24.92	25.70	1.197	0.176	22.1
				oot Test da	ata(Separa	te 10mm 1	RB)			,	
Front side	10	QPSK 1RB_25	23060/704	1:1	0.125	0.08	21.76	22.70	1.242	0.155	22.1
Back side	10	QPSK 1RB_25	23060/704	1:1	0.152	0.16	21.76	22.70	1.242	0.189	22.1
Left side	10	QPSK 1RB_25		1:1	0.251	0.08	21.76	22.70	1.242	0.312	22.1
Top side	10	QPSK 1RB_25	23060/704	1:1	0.056	0.02	21.76	22.70	1.242	0.070	22.1
				t Test data	a (Separate	10mm 50	%RB)			,	
Front side	10	QPSK 25RB_25		1:1	0.135	-0.13	21.64	22.70	1.276	0.172	22.1
Back side	10	QPSK 25RB_25	23095/707.5	1:1	0.161	-0.07	21.64	22.70	1.276	0.206	22.1
Left side	10	QPSK 25RB_25	23095/707.5	1:1	0.265	0.00	21.64	22.70	1.276	0.338	22.1
Top side	10	QPSK 25RB_25		1:1	0.060	0.03	21.64	22.70	1.276	0.077	22.1
		Hotspot	Test data at t	he worst o	ase with B	attery2#(Se	eparate 10m	m 1RB)			
Left side	10	QPSK 25RB_25	23095/707.5	1:1	0.242	0.03	21.64	22.70	1.276	0.309	22.1
				Ant1	0 Test Red	ord	· · · · · · · · · · · · · · · · · · ·				
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
					Test data(
Left cheek	10	QPSK 1RB_25	23130/711	1:1	0.053	-0.08	24.93	25.50	1.140	0.060	22.1
Left tilted	10	QPSK 1RB_25	23130/711	1:1	0.028	0.01	24.93	25.50	1.140	0.031	22.1
Right cheek	10	QPSK 1RB_25		1:1	0.035	0.02	24.93	25.50	1.140	0.040	22.1
Right tilted	10	QPSK 1RB_25		1:1	0.020	0.05	24.93	25.50	1.140	0.022	22.1
•		-		Head T	est data(50)%RB)			-		•
Left cheek	10	QPSK 25RB_25	23060/704	1:1	0.052	0.02	24.13	24.50	1.089	0.056	22.1
Left tilted	10	QPSK 25RB_25		1:1	0.025	0.02	24.13	24.50	1.089	0.027	22.1
Right cheek	10	QPSK 25RB_25		1:1	0.027	-0.18	24.13	24.50	1.089	0.029	22.1
Right tilted	10	QPSK 25RB_25	+	1:1	0.147	0.04	24.13	24.50	1.089	0.160	22.1
	-		Head Test of								



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Right cheek	10	QPSK 1RB_25	23130/711	1:1	0.321	0.11	24.93	25.50	1.140	0.366	22.1
			Body	worn Test	data(Sepa	rate 15mm	1RB)				
Front side	10	QPSK 1RB_25	23130/711	1:1	0.106	-0.09	24.93	25.50	1.140	0.121	22.1
Back side	10	QPSK 1RB_25	23130/711	1:1	0.119	-0.09	24.93	25.50	1.140	0.136	22.1
			Body wo	rn Test da	ta (Separa	te 15mm 5	0%RB)				
Front side	10	QPSK 25RB_25	23060/704	1:1	0.080	-0.03	24.13	24.50	1.089	0.087	22.1
Back side	10	QPSK 25RB_25	23060/704	1:1	0.096	0.18	24.13	24.50	1.089	0.105	22.1
		Body wor	n Test data a	t the worst	case with	Battery2#(Separate 15	mm 1RB)			
Back side	10	QPSK 1RB_25	23130/711	1:1	0.102	0.17	24.93	25.50	1.140	0.116	22.1
			Hots	pot Test da	ata(Separa	te 10mm 1	RB)				
Front side	10	QPSK 1RB_25	23130/711	1:1	0.177	-0.04	24.93	25.50	1.140	0.202	22.1
Back side	10	QPSK 1RB_25	23130/711	1:1	0.180	-0.08	24.93	25.50	1.140	0.205	22.1
Right side	10	QPSK 1RB_25	23130/711	1:1	0.108	-0.14	24.93	25.50	1.140	0.123	22.1
Bottom side	10	QPSK 1RB_25	23130/711	1:1	0.086	0.06	24.93	25.50	1.140	0.098	22.1
			Hotspo	t Test data	a (Separate	10mm 50	%RB)				
Front side	10	QPSK 25RB_25	23060/704	1:1	0.131	0.00	24.13	24.50	1.089	0.143	22.1
Back side	10	QPSK 25RB_25	23060/704	1:1	0.142	-0.07	24.13	24.50	1.089	0.155	22.1
Right side	10	QPSK 25RB_25	23060/704	1:1	0.042	-0.09	24.13	24.50	1.089	0.046	22.1
Bottom side	10	QPSK 25RB_25	23060/704	1:1	0.064	0.03	24.13	24.50	1.089	0.069	22.1
		Hotspot	Test data at	the worst o	ase with B	attery2#(S	eparate 10m	nm 1RB)			
Back side	10	QPSK 1RB_25	23130/711	1:1	0.156	0.16	24.93	25.50	1.140	0.178	22.1

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



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8.3.11SAR Result of LTE Band 17

QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13	23790/710 23790/710 23790/710 23780/709 23780/709 23780/709 23780/709 Body 23800/711 23800/711 Body w 23780/709 123780/709 123780/709 123780/709 123780/709 123780/709 123780/709 123800/711 Hots	1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 ata at the 1:1 1:1 orn Test of 1:1 1:1 at the wor 1:1	0.482 t data(Sepa 0.162 0.166 data (Separa 0.153 0.164	No.02	20.59 20.59 20.59 20.59 20.36 20.36 20.36 20.36 20.36 20.36 1RB) 24.92 24.92	Limit (dBm) 21.70	1.291 1.291 1.291 1.291 1.291 1.361 1.361 1.361 1.361 1.361 1.197 1.197	0.248 0.185 0.608 0.409 0.289 0.215 0.689 0.408 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 1RB_25 QPSK 1RB_25 QPSK 1RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor	23790/710 23790/710 23790/710 23780/709 23780/709 23780/709 23780/709 Body 23800/711 23800/711 Body w 23780/709 123780/709 123780/709 123780/709 123780/709 123780/709 123780/709 123800/711 Hots	1:1 1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 ata at the 1:1 1:1 orn Test of 1:1 1:1 at the wor 1:1	0.192 0.143 0.471 0.317 Test data(5) 0.212 0.158 0.506 0.300 worst case volume to the control of	0.13 0.02 -0.06 0.04 0%RB) 0.09 0.08 -0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.59 20.59 20.59 20.36 20.36 20.36 20.36 20.36 1RB) 24.92 24.92 24.92 50%RB) 24.08 24.08 24.08 (Separate 15	21.70 21.70 21.70 21.70 21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.291 1.291 1.291 1.361 1.361 1.361 1.361 1.361 1.361 1.197 1.197	0.185 0.608 0.409 0.289 0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 1RB_25 QPSK 1RB_25 QPSK 1RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor	23790/710 23790/710 23790/710 23780/709 23780/709 23780/709 23780/709 Body 23800/711 23800/711 Body w 23780/709 123780/709 123780/709 123780/709 123780/709 123780/709 123780/709 123800/711 Hots	1:1 1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 ata at the 1:1 1:1 corn Test of 1:1 1:1 at the wor 1:1	0.143 0.471 0.317 Test data(5) 0.212 0.158 0.506 0.300 worst case v 0.482 t data(Separa 0.162 0.166 lata (Separa 0.153 0.164 st case with 0.142	0.02 -0.06 0.04 0%RB) 0.09 0.08 -0.02 -0.03 with Battery 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.59 20.59 20.59 20.36 20.36 20.36 20.36 20.36 1RB) 24.92 24.92 24.92 50%RB) 24.08 24.08 24.08 (Separate 15	21.70 21.70 21.70 21.70 21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.291 1.291 1.291 1.361 1.361 1.361 1.361 1.361 1.361 1.197 1.197	0.185 0.608 0.409 0.289 0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 1RB_25 QPSK 1RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor	23790/710 23790/710 23790/710 23780/709 23780/709 23780/709 Head Test do 23780/709 Body 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	1:1 Head 1:1 1:1 1:1 1:1 1:1 1:1 ata at the 1:1 1:1 corn Test of 1:1 1:1 at the wor 1:1	0.471 0.317 Test data(5) 0.212 0.158 0.506 0.300 worst case v 0.482 t data(Separa 0.162 0.166 lata (Separa 0.153 0.164 st case with 0.142	-0.06 0.04 0%RB) 0.09 0.08 -0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.59 20.59 20.36 20.36 20.36 20.36 20.36 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 (Separate 15	21.70 21.70 21.70 21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.291 1.291 1.361 1.361 1.361 1.361 1.361 1.361 1.197 1.197	0.608 0.409 0.289 0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 1RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23790/710 23780/709 23780/709 23780/709 23780/709 Head Test display and the second of the secon	1:1 Head 1:1 1:1 1:1 1:1 ata at the 1:1 worn Test 1:1 1:1 torn Test of 1:1 1:1 at the wor 1:1	0.317 Test data(5) 0.212 0.158 0.506 0.300 worst case v 0.482 t data(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	0.04 0%RB) 0.09 0.08 -0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.59 20.36 20.36 20.36 20.36 20.36 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 (Separate 15	21.70 21.70 21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.291 1.361 1.361 1.361 1.361 1.361 1.197 1.197 1.153	0.409 0.289 0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor	23780/709 23780/709 23780/709 23780/709 Head Test d 23780/709 Body 23800/711 Body w 23780/709 23780/709 7 Test data 23800/711 Hots	Head 1:1 1:1 1:1 1:1 ata at the 1:1 worn Tes 1:1 1:1 torn Test c 1:1 1:1 at the wor 1:1	Test data(5) 0.212 0.158 0.506 0.300 worst case vidata(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	0%RB) 0.09 0.08 -0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.36 20.36 20.36 20.36 y2#(50%RB) 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 (Separate 15	21.70 21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.361 1.361 1.361 1.361 1.361 1.197 1.197	0.289 0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 23780/709 23780/709 Head Test d 23780/709 Body 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	1:1 1:1 1:1 ata at the 1:1 worn Tes 1:1 1:1 forn Test of 1:1 1:1 at the wor	0.212 0.158 0.506 0.300 worst case 0.482 t data(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	0.09 0.08 -0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.36 20.36 20.36 y2#(50%RB) 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 Separate 15	21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 cmm 1RB)	1.361 1.361 1.361 1.361 1.197 1.197	0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 23780/709 23780/709 Head Test d 23780/709 Body 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	1:1 1:1 1:1 ata at the 1:1 vworn Tes 1:1 1:1 orn Test of 1:1 1:1 at the worn 1:1	0.158 0.506 0.300 worst case vidata(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	0.08 -0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.36 20.36 20.36 y2#(50%RB) 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 Separate 15	21.70 21.70 21.70 21.70 25.70 25.70 24.70 24.70 cmm 1RB)	1.361 1.361 1.361 1.361 1.197 1.197	0.215 0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 23780/709 Head Test d 23780/709 Body 23800/711 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	1:1 1:1 ata at the 1:1 worn Tes 1:1 1:1 orn Test of 1:1 1:1 at the wor	0.506 0.300 worst case 0.482 t data(Sepa 0.162 0.166 lata (Separa 0.153 0.164 st case with 0.142	-0.02 -0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.36 20.36 22#(50%RB) 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 (Separate 15	21.70 21.70 21.70 25.70 25.70 24.70 24.70 cmm 1RB)	1.361 1.361 1.361 1.197 1.197 1.153	0.689 0.408 0.656 0.194 0.199	22.1 22.1 22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 Head Test d 23780/709 Body 23800/711 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	1:1 ata at the 1:1 worn Tes 1:1 1:1 forn Test of 1:1 1:1 at the wor 1:1	0.300 worst case v 0.482 t data(Sepa 0.162 0.166 lata (Separa 0.153 0.164 st case with 0.142	-0.03 with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.36 y2#(50%RB) 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 (Separate 15	21.70 21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.361 1.361 1.197 1.197 1.153	0.408 0.656 0.194 0.199 0.176	22.1 22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	Head Test d. 23780/709 Body 23800/711 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	ata at the 1:1 worn Tes 1:1 1:1 forn Test of 1:1 1:1 at the wor 1:1	worst case v 0.482 t data(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	with Battery 0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	y2#(50%RB) 20.36 1RB) 24.92 24.92 50%RB) 24.08 24.08 (Separate 15	21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.361 1.197 1.197 1.153	0.656 0.194 0.199 0.176	22.1 22.1 22.1 22.1
QPSK 25RB_25 QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 Body 23800/711 23800/711 Body w 23780/709 23780/709 Test data 23800/711 Hots	1:1 y worn Tes 1:1 1:1 forn Test of 1:1 1:1 1:1 1:1 at the worn 1:1	0.482 t data(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	0.16 rate 15mm 0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	20.36 1RB) 24.92 24.92 60%RB) 24.08 24.08 (Separate 15	21.70 25.70 25.70 24.70 24.70 imm 1RB)	1.197 1.197 1.153	0.194 0.199 0.176	22.1 22.1 22.1
QPSK 1RB_49 QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	Body 23800/711 23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	worn Tes 1:1 1:1 rorn Test of 1:1 1:1 at the wor 1:1	t data(Sepa 0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	rate 15mm	1RB) 24.92 24.92 60%RB) 24.08 24.08 (Separate 15	25.70 25.70 24.70 24.70 5mm 1RB)	1.197 1.197 1.153	0.194 0.199 0.176	22.1 22.1 22.1
QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23800/711 Body w 23780/709 23780/709 n Test data 23800/711 Hots	1:1 1:1 forn Test of 1:1 1:1 at the wor 1:1	0.162 0.166 data (Separa 0.153 0.164 st case with 0.142	0.01 0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	24.92 24.92 60%RB) 24.08 24.08 (Separate 15	25.70 24.70 24.70 5mm 1RB)	1.197	0.199 0.176	22.1
QPSK 1RB_49 QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	23800/711 Body w 23780/709 23780/709 The Test data 23800/711 Hots	1:1 rorn Test of 1:1 1:1 at the wor 1:1	0.166 data (Separa 0.153 0.164 st case with 0.142	0.00 ate 15mm 5 0.03 0.01 Battery2#(0.02	24.92 60%RB) 24.08 24.08 (Separate 15	25.70 24.70 24.70 5mm 1RB)	1.197	0.199 0.176	22.1
QPSK 25RB_13 QPSK 25RB_13 Body wor QPSK 1RB_49	Body w 23780/709 23780/709 n Test data : 23800/711 Hots	orn Test of 1:1 1:1 at the wor 1:1	data (Separa 0.153 0.164 st case with 0.142	0.03 0.01 Battery2#(24.08 24.08 (Separate 15	24.70 24.70 5mm 1RB)	1.153	0.176	22.1
QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 23780/709 n Test data 23800/711 Hots	1:1 1:1 at the wor 1:1	0.153 0.164 st case with 0.142	0.03 0.01 Battery2#(0.02	24.08 24.08 Separate 15	24.70 imm 1RB)			
QPSK 25RB_13 Body wor QPSK 1RB_49	23780/709 In Test data : 23800/711 Hots	1:1 at the wor 1:1	0.164 st case with 0.142	0.01 Battery2#(0.02	24.08 Separate 15	24.70 imm 1RB)			
Body wor QPSK 1RB_49	n Test data 23800/711 Hots	at the wor 1:1	st case with 0.142	Battery2#(0.02	Separate 15	imm 1RB)	1.153	0.189	22.1
QPSK 1RB_49	23800/711 Hots	1:1	0.142	0.02					
	Hots		1	L	24.92	05.70			
QPSK 1RB_25		spot Test	data(Separa			25.70	1.197	0.170	22.1
QPSK 1RB_25	23790/710			ite 10mm 1	RB)				
	237 30/1 10	1:1	0.142	0.08	20.59	21.70	1.291	0.183	22.1
QPSK 1RB_25	23790/710	1:1	0.171	0.04	20.59	21.70	1.291	0.221	22.1
QPSK 1RB_25	23790/710	1:1	0.282	0.00	20.59	21.70	1.291	0.364	22.1
QPSK 1RB_25	23790/710	1:1	0.059	0.02	20.59	21.70	1.291	0.076	22.1
		ot Test da	ta (Separate	e 10mm 50	%RB)				
QPSK 25RB_25		1:1	0.135	-0.09	20.36	21.70	1.361	0.184	22.1
QPSK 25RB_25	23780/709	1:1	0.162	-0.08	20.36	21.70	1.361	0.221	22.1
		1:1	0.269	0.02	20.36	21.70	1.361	0.366	22.1
			1	L			1.361	0.088	22.1
-		he worst c		ttery2#(Se	parate 10mm	1 50%RB)			
QPSK 25RB_25	23780/709	1:1		0.18	20.36	21.70	1.361	0.324	22.1
		Ant	10 Test Re		1		1		
. Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power	D	Tune up Limit (dBm)	Scaled factor	SAR	Liquid Temp
		Hea	d Test data((1RB)					
QPSK 1RB_49	23780/709	1:1	0.048	0.05	24.98	25.50	1.127	0.054	22.1
QPSK 1RB_49	23780/709	1:1	0.025	0.02	24.98	25.50	1.127	0.029	22.1
QPSK 1RB_49	23780/709	1:1	0.030	0.06	24.98	25.50	1.127	0.034	22.1
QPSK 1RB_49	23780/709	1:1	0.017	0.02	24.98	25.50	1.127	0.019	22.1
	'	Head	Test data(5	0%RB)	'				
QPSK 25RB_25	23780/709	1:1	0.051	0.02	24.17	24.50	1.079	0.054	22.1
QPSK 25RB_25	23780/709	1:1	0.024	0.06	24.17	24.50	1.079	0.025	22.1
		1:1	0.026	0.05	24.17	24.50	1.079	0.028	22.1
		1:1	0.015	0.01	24.17	24.50	1.079	0.016	22.1
	QPSK 25RB_25	QPSK 25RB_25 23780/709	QPSK 25RB_25 23780/709 1:1	QPSK 25RB_25 23780/709 1:1 0.269 QPSK 25RB_25 23780/709 1:1 0.065 Hotspot Test data at the worst case with Ba QPSK 25RB_25 23780/709 1:1 0.238 Ant10 Test Re Ch./Freq. Duty Cycle SAR (W/kg) 1-g Head Test data(QPSK 1RB_49 23780/709 1:1 0.048 QPSK 1RB_49 23780/709 1:1 0.030 QPSK 1RB_49 23780/709 1:1 0.017 Head Test data(5 QPSK 25RB_25 23780/709 1:1 0.051 QPSK 25RB_25 23780/709 1:1 0.024 QPSK 25RB_25 23780/709 1:1 0.026 QPSK 25RB_25 23780/709 1:1 0.026 QPSK 25RB_25 23780/709 1:1 0.026	QPSK 25RB_25 23780/709 1:1 0.269 0.02 QPSK 25RB_25 23780/709 1:1 0.065 0.13 Hotspot Test data at the worst case with Battery2#(Segons) QPSK 25RB_25 23780/709 1:1 0.238 0.18 Ant10 Test Record Ch./Freq. Duty Cycle SAR (W/kg) 1-g Drift (dB) Head Test data(1RB) QPSK 1RB_49 23780/709 1:1 0.048 0.05 QPSK 1RB_49 23780/709 1:1 0.025 0.02 QPSK 1RB_49 23780/709 1:1 0.030 0.06 QPSK 1RB_49 23780/709 1:1 0.017 0.02 Head Test data(50%RB) QPSK 25RB_25 23780/709 1:1 0.024 0.06 QPSK 25RB_25 23780/709 1:1 0.024 0.06 QPSK 25RB_25 23780/709 1:1 0.026 0.05 QPSK 25RB_25 23780/709 1:1 0.015 0.05	QPSK 25RB_25 23780/709 1:1 0.269 0.02 20.36 QPSK 25RB_25 23780/709 1:1 0.065 0.13 20.36 Hotspot Test data at the worst case with Battery2#(Separate 10mm QPSK 25RB_25 23780/709 1:1 0.238 0.18 20.36 Ant10 Test Record Conducted Power (dBm) Head Test data(1RB) QPSK 1RB_49 23780/709 1:1 0.048 0.05 24.98 QPSK 1RB_49 23780/709 1:1 0.025 0.02 24.98 QPSK 1RB_49 23780/709 1:1 0.030 0.06 24.98 QPSK 1RB_49 23780/709 1:1 0.017 0.02 24.98 QPSK 25RB_25 23780/709 1:1 0.051 0.02 24.17 QPSK 25RB_25 23780/709 1:1 0.024 0.06 24.17 QPSK 25RB_25 23780/709 1:1 0.024 0.06 24.17 QPSK 25RB_25 23780/709 1:1	QPSK 25RB_25 23780/709 1:1 0.269 0.02 20.36 21.70 QPSK 25RB_25 23780/709 1:1 0.065 0.13 20.36 21.70 Hotspot Test data at the worst case with Battery2#(Separate 10mm 50%RB) QPSK 25RB_25 23780/709 1:1 0.238 0.18 20.36 21.70 Ant10 Test Record Conducted Power (dBm) Tune up Limit (dBm) Head Test data(1RB) QPSK 1RB_49 23780/709 1:1 0.048 0.05 24.98 25.50 QPSK 1RB_49 23780/709 1:1 0.025 0.02 24.98 25.50 QPSK 1RB_49 23780/709 1:1 0.030 0.06 24.98 25.50 QPSK 1RB_49 23780/709 1:1 0.017 0.02 24.98 25.50 QPSK 25RB_25 23780/709 1:1 0.051 0.02 24.17 24.50 QPSK 25RB_25 23780/709 1:1 0.024 0.06 24.17 24.50 <	QPSK 25RB_25 23780/709 1:1 0.269 0.02 20.36 21.70 1.361 QPSK 25RB_25 23780/709 1:1 0.065 0.13 20.36 21.70 1.361 Hotspot Test data at the worst case with Battery2#(Separate 10mm 50%RB) QPSK 25RB_25 23780/709 1:1 0.238 0.18 20.36 21.70 1.361 Ant10 Test Record Head Test data(1RB) QPSK 1RB_49 23780/709 1:1 0.048 0.05 24.98 25.50 1.127 QPSK 1RB_49 23780/709 1:1 0.025 0.02 24.98 25.50 1.127 QPSK 1RB_49 23780/709 1:1 0.030 0.06 24.98 25.50 1.127 QPSK 1RB_49 23780/709 1:1 0.017 0.02 24.98 25.50 1.127 QPSK 25RB_25 23780/709 1:1 0.051 0.02 24.17 24.50 1.079 QPSK 25RB_25 23780/709 1:1<	QPSK 25RB_25 23780/709 1:1 0.269 0.02 20.36 21.70 1.361 0.366 QPSK 25RB_25 23780/709 1:1 0.065 0.13 20.36 21.70 1.361 0.088 Hotspot Test data at the worst case with Battery2#(Separate 10mm 50%RB) QPSK 25RB_25 23780/709 1:1 0.238 0.18 20.36 21.70 1.361 0.324 Ant10 Test Record Conducted Ch./Freq. Duty Cycle SAR (W/kg) 1-g Drift (dB) Conducted Power (dBm) Tune up Power (dBm) Scaled SAR (W/kg) Head Test data(1RB) QPSK 1RB_49 23780/709 1:1 0.048 0.05 24.98 25.50 1.127 0.054 QPSK 1RB_49 23780/709 1:1 0.030 0.06 24.98 25.50 1.127 0.034 QPSK 1RB_49 23780/709 1:1 0.017 0.02 24.98 25.50 1.127 0.034 QPSK 25RB_25 23780/709 1:1 0.05



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Left cheek	10	QPSK 1RB_49	23780/709	1:1	0.041	0.17	24.98	25.50	1.127	0.046	22.1
			Body	worn Test	data(Sepa	rate 15mm	1RB)				
Front side	10	QPSK 1RB_49	23780/709	1:1	0.096	-0.08	24.98	25.50	1.127	0.108	22.1
Back side	10	QPSK 1RB_49	23780/709	1:1	0.118	0.06	24.98	25.50	1.127	0.133	22.1
			Body w	orn Test d	ata (Separa	te 15mm 5	0%RB)				
Front side	10	QPSK 25RB_25	23780/709	1:1	0.087	0.18	24.17	24.50	1.079	0.094	22.1
Back side	10	QPSK 25RB_25	23780/709	1:1	0.105	-0.08	24.17	24.50	1.079	0.113	22.1
		Body wor	n Test data	at the wors	st case with	Battery2#(Separate 15	mm 1RB)			
Back side	10	QPSK 1RB_49	23780/709	1:1	0.107	-0.05	24.98	25.50	1.127	0.121	22.1
			Hots	spot Test d	lata(Separa	te 10mm 1	RB)				
Front side	10	QPSK 1RB_49	23780/709	1:1	0.154	0.15	24.98	25.50	1.127	0.174	22.1
Back side	10	QPSK 1RB_49	23780/709	1:1	0.187	-0.02	24.98	25.50	1.127	0.211	22.1
Right side	10	QPSK 1RB_49	23780/709	1:1	0.096	-0.07	24.98	25.50	1.127	0.108	22.1
Bottom side	10	QPSK 1RB_49	23780/709	1:1	0.073	-0.10	24.98	25.50	1.127	0.082	22.1
			Hotsp	ot Test dat	a (Separate	10mm 50	%RB)				
Front side	10	QPSK 25RB_25	23780/709	1:1	0.147	-0.10	24.17	24.50	1.079	0.159	22.1
Back side	10	QPSK 25RB_25	23780/709	1:1	0.163	0.16	24.17	24.50	1.079	0.176	22.1
Right side	10	QPSK 25RB_25	23780/709	1:1	0.078	-0.10	24.17	24.50	1.079	0.084	22.1
Bottom side	10	QPSK 25RB_25	23780/709	1:1	0.069	-0.12	24.17	24.50	1.079	0.074	22.1
		Hotspot	Test data at	the worst	case with B	attery2#(S	eparate 10n	nm 1RB)			
Back side	10	QPSK 1RB_49	23780/709	1:1	0.165	0.15	24.98	25.50	1.127	0.186	22.1
· · · · · · · · · · · · · · · · · · ·											

Table 21: SAR of LTE Band 17 for Head and Body.



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8.3.12 SAR Result of LTE Band 38

				Ant1 T	est Recor	rd					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
Left cheek	20	QPSK 1RB_50	37850/2580	1:1.58	0.167	0.03	24.48	25.50	1.265	0.211	22.1
Left cheek	20	PCC QPSK 1_99 SCC QPSK 1_0	37850/2580	1:1.58	0.134	0.11	24.25	25.50	1.334	0.179	22.1
Left tilted	20	QPSK 1RB_50	37850/2580	1:1.58	0.105	-0.14	24.48	25.50	1.265	0.133	22.1
Right cheek	20	QPSK 1RB_50	37850/2580	1:1.58	0.141	-0.01	24.48	25.50	1.265	0.178	22.1
Right tilted	20	QPSK 1RB_50	37850/2580	1:1.58	0.111	-0.05	24.48	25.50	1.265	0.140	22.1
				Head Tes	st data(50%	6RB)					
Left cheek	20	QPSK 50RB_25	37850/2580	1:1.58	0.153	-0.10	23.70	24.50	1.202	0.184	22.1
Left tilted	20	QPSK 50RB_25	37850/2580	1:1.58	0.086	-0.12	23.70	24.50	1.202	0.103	22.1
Right cheek	20	QPSK 50RB_25	37850/2580	1:1.58	0.116	0.10	23.70	24.50	1.202	0.139	22.1
Right tilted	20	QPSK 50RB_25	37850/2580	1:1.58	0.097	0.04	23.70	24.50	1.202	0.117	22.1
			lead Test data	at the w	orst case v	with Battery	/2#(1RB)				
Left cheek	20	QPSK 1RB_50	37850/2580	1:1.58	0.142	-0.02	24.48	25.50	1.265	0.180	22.1
		1				te 15mm 1				1	
Front side	20	QPSK 1RB_50	37850/2580	1:1.58	0.282	0.18	24.48	25.50	1.265	0.357	22.1
Back side	20	QPSK 1RB_50	37850/2580	1:1.58	0.315	-0.12	24.48	25.50	1.265	0.398	22.1
Back side	20	PCC QPSK 1_99 SCC QPSK 1_0	38048/2599.8	1:1.58	0.285	0.14	24.25	25.50	1.334	0.380	22.1
			Body worn	Test data	(Separate	15mm 509	%RB)				
Front side	20	QPSK 50RB_25		1:1.58	0.229	0.09	23.70	24.50	1.202	0.275	22.1
Back side	20	QPSK 50RB_25		1:1.58	0.269	-0.17	23.70	24.50	1.202	0.323	22.1
		Body worn	Test data at th			attery2#(S	eparate 15n				
Back side	20	QPSK 1RB_50	37850/2580 Hotspot	1:1.58 Test data	0.303 (Separate	0.00 10mm 1R	24.48 B)	25.50	1.265	0.383	22.1
Front side	20	QPSK 1RB_50	38150/2610	1:1.58	0.261	-0.02	21.68	22.50	1.208	0.315	22.1
Back side	20	QPSK 1RB_50	38150/2610	1:1.58	0.317	0.03	21.68	22.50	1.208	0.383	22.1
Left side	20	QPSK 1RB_50	38150/2610	1:1.58	0.109	0.04	21.68	22.50	1.208	0.132	22.1
Bottom side	20	QPSK 1RB_50	38150/2610	1:1.58	0.277	0.00	21.68	22.50	1.208	0.335	22.1
		T = = = = = = = = = = = = = = = = = = =	Hotspot To							T	
Front side	20	QPSK 50RB_0	38150/2610	1:1.58	0.266	0.00	21.70	22.50	1.202	0.320	22.1
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.322	0.05	21.70	22.50	1.202	0.387	22.1
Back side	20	PCC QPSK 1_0 SCC QPSK 1_99	37952/2590.8	1:1.58	0.294	0.01	21.56	22.50	1.242	0.365	22.1
Left side	20	QPSK 50RB_0	38150/2610	1:1.58	0.111	0.08	21.70	22.50	1.202	0.133	22.1
Bottom side	20	QPSK 50RB_0	38150/2610	1:1.58	0.279	0.17	21.70	22.50	1.202	0.335	22.1
			t data at the w								
Back side	20	QPSK 50RB_0	38150/2610	1:1.58	0.314	-0.09	21.70	22.50	1.202	0.378	22.1
				Ant4 I	est Recor		Conducted	Tupo		Scoled	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- q		Conducted Power (dBm)	Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head Te	est data(1F	RB)					
Left cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.187	0.11	20.51	21.40	1.227	0.230	22.1
Left tilted	20	QPSK 1RB_0	38000/2595	1:1.58	0.208	0.19	20.51	21.40	1.227	0.255	22.1
Right cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.304	-0.18	20.51	21.40	1.227	0.373	22.1
Right tilted	20	QPSK 1RB_0	38000/2595	1:1.58	0.320	0.16	20.51	21.40	1.227	0.393	22.1
		_			st data(50%	%RB)				,	
Left cheek	20	QPSK 50RB_25		1:1.58	0.192	-0.09	20.45	21.40	1.245	0.239	22.1
Left tilted	20	QPSK 50RB_25		1:1.58	0.203	-0.02	20.45	21.40	1.245	0.253	22.1
Right cheek	20	QPSK 50RB_25		1:1.58	0.331	0.12	20.45	21.40	1.245	0.412	22.1
Right tilted	20	QPSK 50RB_25		1:1.58	0.346	0.04	20.45	21.40	1.245	0.431	22.1
Right tilted	20	PCC QPSK 1_99 SCC QPSK 1_0		1:1.58	0.311	0.16	20.34	21.40	1.276	0.397	22.1



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		11.	- 1 1 - 1 - 1 - 1	- (1)		U- D-110	///F00/ DD)				
D: 14 (1)4 1			ad Test data					04.40	4.045	0.000	00.4
Right tilted	20	QPSK 50RB_25		1:1.58	0.321	0.08	20.45	21.40	1.245	0.399	22.1
		1			ta(Separat						1
Front side	20	QPSK 1RB_0	38150/2610	1:1.58	0.101	-0.03	24.33	25.40	1.279	0.129	22.1
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.130	0.03	24.33	25.40	1.279	0.166	22.1
Back side	20	PCC QPSK 1_0	38150/2610	1:1.58	0.104	0.17	24.16	25.40	1.330	0.138	22.1
Buok oldo		SCC QPSK 1_99						20.10	1.000	0.100	
			Body worn								1
Front side	20	QPSK 50RB_0	37850/2580	1:1.58	0.082	-0.08	23.40	24.40	1.259	0.103	22.1
Back side	20	QPSK 50RB_0	37850/2580	1:1.58	0.124	0.06	23.40	24.40	1.259	0.156	22.1
			Test data at th	ne worst c			eparate 15n	nm 1RB)			
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.105	-0.09	24.33	25.40	1.279	0.134	22.1
			Hotspot	Test data	(Separate	10mm 1R	B)				
Front side	20	QPSK 1RB_0	38000/2595	1:1.58	0.074	0.04	20.51	21.40	1.227	0.091	22.1
Back side	20	QPSK 1RB_0	38000/2595	1:1.58	0.109	0.17	20.51	21.40	1.227	0.134	22.1
Left side	20	QPSK 1RB_0	38000/2595	1:1.58	0.008	0.16	20.51	21.40	1.227	0.010	22.1
Top side	20	QPSK 1RB_0	38000/2595	1:1.58	0.091	-0.06	20.51	21.40	1.227	0.112	22.1
			Hotspot T	est data (Separate 1	0mm 50%	RB)				
Front side	20	QPSK 50RB_25		1:1.58	0.078	-0.12	20.45	21.40	1.245	0.097	22.1
Back side	20	QPSK 50RB_25		1:1.58	0.111	0.08	20.45	21.40	1.245	0.138	22.1
De els elste	00	PCC QPSK 1_99	37850/2580	4.4.50	0.000	0.04	00.04	04.40	4.070	0.400	00.4
Back side	20	SCC QPSK 1_0		1:1.58	0.096	0.04	20.34	21.40	1.276	0.123	22.1
Left side	20	QPSK 50RB_25		1:1.58	0.013	0.11	20.45	21.40	1.245	0.016	22.1
Top side	20	QPSK 50RB_25		1:1.58	0.104	-0.13	20.45	21.40	1.245	0.129	22.1
'			t data at the v	vorst case	with Batte		rate 10mm	50%RB)			
Back side	20	QPSK 50RB 25		1:1.58	0.093	-0.06	20.45	21.40	1.245	0.116	22.1
		_		Ant8 T	est Recor	d					
			T1		SAR		Conducted	Tune up	011	Scaled	I I most at
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(M/ka) 1-	Power	Power	Limit	Scaled factor	SAR	Liquid Temp
			Omir roqi	Oy o.c	g	Drift (dB)	(dBm)	(dBm)	lactor	(W/kg)	Temp
			O.11.71.10q1		g est data(1F	Dilit (ub)	(dBm)	(dBm)	lactor	(W/kg)	Temp
Left cheek	20	QPSK 1RB_50	38000/2595		g	Dilit (ub)	(dBm) 22.75	(dBm) 24.00	1.334	(W/kg) 0.695	22.1
		PCC QPSK 1_99	38000/2595 37850/2580	Head Te	est data(1F 0.521	RB) -0.09	22.75	24.00	1.334	0.695	22.1
Left cheek Left cheek	20	PCC QPSK 1_99 SCC QPSK 1_0	38000/2595 37850/2580 38048/2599.8	Head Te 1:1.58 1:1.58	9 est data(1F 0.521 0.428	-0.09 0.13	22.75 22.41		1.334	0.695 0.617	22.1
	20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595	Head Te	est data(1F 0.521	RB) -0.09	22.75	24.00	1.334 1.442 1.334	0.695	22.1 22.1 22.1
Left cheek	20 20 20	PCC QPSK 1_99 SCC QPSK 1_0	38000/2595 37850/2580 38048/2599.8	Head Te 1:1.58 1:1.58 1:1.58 1:1.58	9est data(1F 0.521 0.428 0.074 0.464	-0.09 0.13	22.75 22.41	24.00	1.334	0.695 0.617	22.1 22.1 22.1 22.1
Left cheek Left tilted	20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595	Head Te 1:1.58 1:1.58 1:1.58	9 est data(1F 0.521 0.428 0.074	RB) -0.09 0.13 -0.15	22.75 22.41 22.75	24.00 24.00 24.00	1.334 1.442 1.334	0.695 0.617 0.099	22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted	20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 Head Tes	9est data(1F 0.521 0.428 0.074 0.464	-0.09 -0.13 -0.15 -0.13 -0.10	22.75 22.41 22.75 22.75 22.75	24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334	0.695 0.617 0.099 0.619	22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek	20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 Head Tes 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161	-0.09 -0.13 -0.15 -0.13 -0.10	22.75 22.41 22.75 22.75 22.75 22.75	24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334	0.695 0.617 0.099 0.619	22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted	20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 Head Tes	9est data(1F 0.521 0.428 0.074 0.464 0.161 st data(50%	-0.09 0.13 -0.15 -0.13 -0.10 6RB)	22.75 22.41 22.75 22.75 22.75	24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334	0.695 0.617 0.099 0.619 0.215	22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 Head Tes 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161 bt data(50% 0.492	-0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11	22.75 22.41 22.75 22.75 22.75 22.75	24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334	0.695 0.617 0.099 0.619 0.215	22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 Head Tes 1:1.58 1:1.58 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161 st data(50% 0.492 0.081 0.423 0.159	0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68	24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 Head Tes 1:1.58 1:1.58 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161 st data(50% 0.492 0.081 0.423 0.159	0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161 st data(50% 0.492 0.081 0.423 0.159	0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
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	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 dead Test data	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161 st data(509 0.492 0.081 0.423 0.159 orst case v	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.68 /2#(1RB) 22.75	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
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	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Bed Test data	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	9est data(1F 0.521 0.428 0.074 0.464 0.161 st data(50% 0.492 0.081 0.423 0.159 orst case v	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.68 /2#(1RB) 22.75	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.334 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right tilted	20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 50RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Bed Test data	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	est data(1F 0.521 0.428 0.074 0.464 0.161 st data(509 0.492 0.081 0.423 0.159 orst case v 0.504 ta(Separate	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.75 22.75 RB)	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right tilted	20 20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Head Test data 38000/2595 Body wor	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.504 0.604 0.77 0.080	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 RB) 22.75	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right tilted	20 20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Head Test data 38000/2595 Body wor 37850/2580 Body worn	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.504 0.604 0.77 0.080	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.68 22.75 RB) 22.75 RB)	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_99 QPSK 1RB_99	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Head Test data 38000/2595 Body wor 37850/2580 Body worn 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.504 0.604 0.77 0.080 (Separate	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 50	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 RB) 22.75	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Bedy wor 37850/2580 Body worn 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0orst case v 0.504 ta(Separate 0.077 0.080 (Separate 0.081	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Batten 0.08 e 15mm 1 -0.06 -0.12 15mm 506 -0.12 -0.08	22.75 22.41 22.75 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 22.75 RB) 22.27 22.27 %RB) 22.15	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355 1.355 1.354	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Right tilted Left cheek Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body word 37850/2580 Body word 37850/2580 Body word 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.504 ta(Separate 0.077 0.080 (Separate 0.080	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 506 -0.12	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 RB) 22.75 RB) 22.27 22.27 %RB) 22.15	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355 1.355	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_99 QPSK 1RB_99 SCC QPSK 1_99 SCC QPSK 1_0	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body word 37850/2580 Body word 37850/2580 Body word 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.504 0.692 0.080 0.77 0.080 (Separate 0.080 0.081	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 500 -0.12 -0.08 0.10	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 RB) 22.75 RB) 22.27 %RB) 22.15 22.15 21.94	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355 1.355 1.354	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body word 37850/2580 Body word 37850/2580 Body word 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.504 0.604 0.077 0.080 (Separate 0.080 0.081 0.070	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 500 -0.12 -0.08 0.10	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 RB) 22.75 RB) 22.27 %RB) 22.15 22.15 21.94	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355 1.355 1.354	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 50RB_25 QPSK 1RB_99 QPSK 1RB_99 SCC QPSK 1_99 SCC QPSK 1_0	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body word 37850/2580 Body word 37850/2580 Body word 37850/2580 37850/2580 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595	Head Te 1:1.58	0.521 0.428 0.074 0.464 0.161 0.492 0.081 0.423 0.159 0.077 0.080 (Separate 0.080 0.081 0.070 se with Bat 0.069	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 -0.12 15mm 50 -0.12 -0.08 0.10 ttery2#(Se) -0.05	22.75 22.41 22.75 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.75 22.15 22.27 %RB) 22.27 22.27 %RB) 22.15 22.15 21.94 parate 15mn 22.15	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355 1.355 1.216 1.216 1.216	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095 0.097 0.099	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25 PCC QPSK 1_99 SCC QPSK 1_0 Body worn Te	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body word 37850/2580 Body word 37850/2580 Body word 37850/2580 37850/2580 Body word 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38048/2599.8 est data at the 38000/2595 Hotspot	Head Te 1:1.58	pest data(1F 0.521 0.428 0.074 0.464 0.161 ot data(50% 0.492 0.081 0.423 0.159 orst case v 0.504 ta(Separate 0.080 0.081 0.080 0.081 0.070 se with Bat 0.069 (Separate	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 506 -0.12 -0.08 0.10 tery2#(Sej -0.05 10mm 1R	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 RB) 22.75 RB) 22.27 %RB) 22.15 21.94 parate 15mn 22.15 B)	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.355 1.355 1.355 1.355 1.355 1.355 1.216 1.216 1.216	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095 0.097 0.099 0.089	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side Back side Front side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body wor 37850/2580 Body worn 38000/2595 38000/2595 Body worn 38000/2595 38000/2595 38000/2595 Hotspot 37850/2580	Head Te 1:1.58	est data(1F 0.521 0.428 0.074 0.464 0.161 st data(50% 0.492 0.081 0.423 0.159 orst case v 0.504 ta(Separate 0.080 0.081 0.080 0.081 0.070 se with Bat 0.069 (Separate 0.069 (Separate 0.069 (Separate 0.069	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 500 -0.12 -0.08 0.10 tery2#(Se) -0.05 10mm 1RI -0.07	22.75 22.41 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.75 22.27 %RB) 22.27 %RB) 22.15 21.94 parate 15mn 22.15 B) 22.27	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.335 1.355 1.355 1.355 1.355 1.355 1.355 1.216 1.216 1.216 1.276	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095 0.097 0.099 0.089	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side Back side Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 4000/2595	Head Te 1:1.58	pest data(1F 0.521 0.428 0.074 0.464 0.161 ot data(50% 0.492 0.081 0.423 0.159 orst case v 0.504 ta(Separate 0.080 0.080 0.081 0.070 se with Bat 0.069 (Separate 0.069 (Separate 0.069 (Separate 0.153 0.156	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 506 -0.12 -0.08 0.10 tery2#(Sej -0.05 10mm 1R	22.75 22.41 22.75 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.17 22.27 28.8 22.27 22.27 28.8 22.15 21.94 parate 15mn 22.15 B) 22.27 22.27	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.335 1.355 1.355 1.355 1.355 1.355 1.355 1.216 1.216 1.216 1.276	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095 0.097 0.099 0.089	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side Back side Front side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Body wor 37850/2580 Body worn 38000/2595 38000/2595 Body worn 38000/2595 37850/2580 37850/2580 37850/2580 37850/2580 37850/2580 37850/2580 37850/2580 37850/2580 37850/2580	Head Te 1:1.58	pest data(1F 0.521 0.428 0.074 0.464 0.161 ot data(50% 0.492 0.081 0.423 0.159 orst case v 0.504 ta(Separate 0.080 0.080 0.081 0.070 se with Bat 0.069 (Separate 0.069 (Separate 0.153 0.156 0.260	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 500 -0.12 -0.08 0.10 tery2#(Se) -0.05 10mm 1RI -0.07 0.09 0.04	22.75 22.41 22.75 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.17 22.27 28.8 22.27 22.27 22.27 22.27 22.27 22.27 22.27	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.335 1.355 1.355 1.355 1.355 1.355 1.355 1.216 1.216 1.216 1.276	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095 0.097 0.099 0.089	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Front side Back side Back side Back side Front side Back side	20 20 20 20 20 20 20 20 20 20 20 20 20 2	PCC QPSK 1_99 SCC QPSK 1_0 QPSK 1RB_50 QPSK 1RB_50 QPSK 1RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 50RB_50 QPSK 1RB_99 QPSK 1RB_99 QPSK 1RB_99 QPSK 50RB_25	38000/2595 37850/2580 38048/2599.8 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 38000/2595 Head Test data 38000/2595 Body wor 37850/2580 37850/2580 37850/2580 380048/2599.8 est data at the 38000/2595 Hotspot 37850/2580 37850/2580 Hotspot T	Head Te 1:1.58	pest data(1F 0.521 0.428 0.074 0.464 0.161 ot data(50% 0.492 0.081 0.423 0.159 orst case v 0.504 ta(Separate 0.080 0.080 0.081 0.070 se with Bat 0.069 (Separate 0.069 (Separate 0.153 0.156 0.260	RB) -0.09 0.13 -0.15 -0.13 -0.10 6RB) 0.11 0.09 -0.15 -0.18 vith Battery 0.08 e 15mm 1 -0.06 -0.12 15mm 500 -0.12 -0.08 0.10 tery2#(Se) -0.05 10mm 1RI -0.07 0.09 0.04	22.75 22.41 22.75 22.75 22.75 22.75 22.68 22.68 22.68 22.68 22.68 22.17 22.27 28.8 22.27 22.27 22.27 22.27 22.27 22.27 22.27	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00	1.334 1.442 1.334 1.334 1.335 1.355 1.355 1.355 1.355 1.355 1.355 1.216 1.216 1.216 1.276	0.695 0.617 0.099 0.619 0.215 0.667 0.110 0.573 0.215 0.672 0.091 0.095 0.097 0.099 0.089	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1



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Back side	20	QPSK 50RB 25	38000/2595	1:1.58	0.161	0.10	22.15	23.00	1.216	0.196	22.1
Left side	20	QPSK 50RB 25		1:1.58	0.270	0.14	22.15	23.00	1.216	0.328	22.1
		PCC QPSK 1_99				_					
Left side	20	SCC QPSK 1_0		1:1.58	0.220	-0.09	21.94	23.00	1.276	0.281	22.1
ı		_	t data at the v	vorst case	with Batte	erv2#(Sepa	rate 10mm	50%RB)			
Left side	20	QPSK 50RB 25		1:1.58	0.223	0.11	22.15	23.00	1.216	0.271	22.1
					est Recor		-				
			Toot	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
			On./i req.		g	, ,	(dBm)	(dBm)	lactor	(W/kg)	Tellip
		T			est data(1F		T			1	
Left cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.060	-0.06	23.75	24.20	1.109	0.067	22.1
Left tilted	20	QPSK 1RB_0	38000/2595	1:1.58	0.061	0.07	23.75	24.20	1.109	0.068	22.1
Right cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.153	0.12	23.75	24.20	1.109	0.170	22.1
Right cheek	20	PCC QPSK 1_99		1:1.58	0.133	-0.10	23.52	24.20	1.169	0.156	22.1
ŭ		SCC QPSK 1_0									
Right tilted	20	QPSK 1RB_0	38000/2595	1:1.58	0.128	-0.02	23.75	24.20	1.109	0.142	22.1
		1			t data(50%						
Left cheek	20	QPSK 50RB_25	38000/2595	1:1.58	0.049	-0.11	22.81	23.20	1.094	0.054	22.1
Left tilted	20	QPSK 50RB_25		1:1.58	0.048	-0.13	22.81	23.20	1.094	0.053	22.1
Right cheek	20	QPSK 50RB_25		1:1.58	0.143	0.13	22.81	23.20	1.094	0.156	22.1
Right tilted	20	QPSK 50RB_25		1:1.58	0.099	-0.10	22.81	23.20	1.094	0.108	22.1
		_	lead Test data				` '				
Right cheek	20	QPSK 1RB_0	38000/2595	1:1.58	0.132	0.15	23.75	24.20	1.109	0.146	22.1
		T ====================================				te 15mm 1					
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.057	-0.15	19.18	20.20	1.265	0.072	22.1
Back side	20	QPSK 1RB_99	37850/2580	1:1.58	0.174	-0.18	19.18	20.20	1.265	0.220	22.1
Back side	20	PCC QPSK 1_99		1:1.58	0.153	0.14	19.01	20.20	1.315	0.201	22.1
		SCC QPSK 1_0								***	
		Ta-a	Body worn								
Front side	20	QPSK 50RB_25		1:1.58	0.053	0.18	19.14	20.20	1.276	0.068	22.1
Back side	20	QPSK 50RB_25		1:1.58	0.122	0.10	19.14	20.20	1.276	0.156	22.1
6			Test data at th			, , <u>, , , , , , , , , , , , , , , , , </u>			4.005	0.005	00.4
Back side	20	QPSK 1RB_99	37850/2580	1:1.58	0.162	-0.11	19.18	20.20	1.265	0.205	22.1
Format adds		ODOK ADD 00			<u> </u>	10mm 1R		00.00	4.005	0.000	00.4
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.002	-0.18	19.18	20.20	1.265	0.003	22.1
Back side	20	QPSK 1RB_99 QPSK 1RB 99	37850/2580 37850/2580	1:1.58 1:1.58	0.161 0.045	0.12 -0.14	19.18	20.20	1.265 1.265	0.204	22.1 22.1
Left side							19.18	20.20		0.057	
Top side	20	QPSK 1RB_99	37850/2580	1:1.58	0.063	-0.12	19.18	20.20	1.265	0.080	22.1
Front side	20	ODEK FORD OF				0mm 50%		20.20	1.076	0.044	22.4
Front side Back side	20	QPSK 50RB_25 QPSK 50RB_25		1:1.58 1:1.58	0.009 0.167	0.00	19.14 19.14	20.20	1.276 1.276	0.011 0.213	22.1 22.1
Dack Side	20	PCC QPSK 1_0		1.1.36	0.107	0.00	19.14	20.20	1.270	0.213	ZZ. I
Back side	20	SCC QPSK 1_99		1:1.58	0.144	-0.15	19.00	20.20	1.318	0.190	22.1
Left side	20	QPSK 50RB_25		1:1.58	0.045	0.08	19.14	20.20	1.276	0.057	22.1
Top side	20	QPSK 50RB_25		1:1.58	0.045	0.08	19.14	20.20	1.276	0.037	22.1
Tup side	20		t data at the v						1.270	0.002	
Back side	20	QPSK 50RB_25			0.153	0.01	19.14	20.20	1.276	0.195	22.1
		TE Pand 20 for			0.100	0.01	10.14	20.20	1.210	0.130	<u> </u>

Table 22: SAR of LTE Band 38 for Head and Body.



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8.3.13 SAR Result of LTE Band 41

		_		Ant1	Test Reco						
			Test	Duty	SAR		Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power (dBm)	Limit (dBm)	factor	SAR (W/kg)	Temp
				L Lead	rest data(1	RB)	(ubiii)	(ubiii)		(W/Kg)	
Left cheek	20	QPSK 1RB_0	39750/2506	1:1.58	0.165	0.09	24.77	25.50	1.183	0.195	22.1
Left tilted	20	QPSK 1RB_0	39750/2506	1:1.58	0.098	0.03	24.77	25.50	1.183	0.116	22.1
Right cheek	20	QPSK 1RB_0	39750/2506	1:1.58	0.129	0.05	24.77	25.50	1.183	0.153	22.1
Right tilted	20	QPSK 1RB_0	39750/2506	1:1.58	0.102	0.08	24.77	25.50	1.183	0.121	22.1
					est data(50						
Left cheek	20	QPSK 50RB_25	39750/2506	1:1.58	0.148	0.11	23.93	24.50	1.140	0.169	22.1
Left tilted	20	QPSK 50RB_25	39750/2506	1:1.58	0.080	0.19	23.93	24.50	1.140	0.091	22.1
Right cheek	20	QPSK 50RB_25	39750/2506	1:1.58	0.108	-0.08	23.93	24.50	1.140	0.123	22.1
Right tilted	20	QPSK 50RB_25	39750/2506	1:1.58	0.087	-0.10	23.93	24.50	1.140	0.099	22.1
			Head Test da	ata at the v	worst case	with Batter	y2#(1RB)				
Left cheek	20	QPSK 1RB_0	39750/2506	1:1.58	0.142	-0.02	24.77	25.50	1.183	0.168	22.1
			Body w	orn Test o	lata(Separa	ate 15mm	1RB)				
Front side	20	QPSK 1RB_0	39750/2506	1:1.58	0.281	-0.05	24.77	25.50	1.183	0.332	22.1
Back side	20	QPSK 1RB_0	39750/2506	1:1.58	0.296	-0.11	24.77	25.50	1.183	0.350	22.1
		<u> </u>			_ ` '	e 15mm 50				T = = - ·	T
Front side	20			1:1.58	0.216	-0.07	23.93	24.50	1.140	0.246	22.1
Back side	20	QPSK 50RB_25		1:1.58	0.258	-0.09	23.93	24.50	1.140	0.294	22.1
5			n Test data at						4.400	0.000	00.4
Back side	20	QPSK 1RB_0	39750/2506	1:1.58	0.273	0.04	24.77	25.50	1.183	0.323	22.1
Frank side	200	ODCK ADD O			,	e 10mm 1F		00.50	4.040	0.004	00.4
Front side	20	QPSK 1RB_0	41490/2680	1:1.58	0.261	-0.12	21.56	22.50	1.242	0.324	22.1
Back side Left side	20	QPSK 1RB_0	41490/2680 41490/2680	1:1.58 1:1.58	0.331	-0.10 -0.03	21.56	22.50	1.242 1.242	0.411	22.1 22.1
Bottom side	20 20	QPSK 1RB_0 QPSK 1RB_0	41490/2680	1:1.58	0.121	-0.03	21.56 21.56	22.50 22.50	1.242	0.150 0.377	22.1
Dottom side	20	QF3K IKB_0				10mm 509		22.30	1.242	0.311	22.1
Front side	20	QPSK 50RB 25		1:1.58	0.255	-0.17	21.47	22.50	1.268	0.323	22.1
Back side	20			1:1.58	0.306	0.19	21.47	22.50	1.268	0.388	22.1
Left side	20	QPSK 50RB 25		1:1.58	0.111	-0.04	21.47	22.50	1.268	0.141	22.1
Bottom side	20			1:1.58	0.300	-0.18	21.47	22.50	1.268	0.380	22.1
			Test data at t								
Back side	20	QPSK 1RB_0	41490/2680	1:1.58	0.314	0.06	21.56	22.50	1.242	0.390	22.1
				Ant4	Test Reco	ord				,	
			Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
			-		<u>g</u>	, ,	(dBm)	(dBm)		(W/kg)	
L oft abook	20	QPSK 1RB 99	41400/2690		Test data(1		20.49	21.40	1 226	0.244	22.4
Left cheek Left tilted	20	QPSK 1RB_99	41490/2680	1:1.58 1:1.58	0.195 0.219	0.09	20.48 20.48	21.40 21.40	1.236 1.236	0.241 0.271	22.1 22.1
Right cheek	20	QPSK 1RB_99		1:1.58	0.219	-0.17	20.48	21.40	1.236	0.271	22.1
Right tilted	20	QPSK 1RB_99		1:1.58	0.340	-0.17	20.48	21.40	1.236	0.420	22.1
ragin tillou	20	Jan Ort IND_99	11-100/2000		est data(50		20.70	21.70	1.200	0.720	
Left cheek	20	QPSK 50RB_25	41490/2680	1:1.58	0.214	0.12	20.42	21.40	1.253	0.268	22.1
Left tilted	20	QPSK 50RB_25		1:1.58	0.237	0.06	20.42	21.40	1.253	0.297	22.1
Right cheek	20	QPSK 50RB_25		1:1.58	0.327	0.07	20.42	21.40	1.253	0.410	22.1
Right tilted	20	QPSK 50RB 25		1:1.58	0.351	0.08	20.42	21.40	1.253	0.440	22.1
<u> </u>			lead Test dat								
Right tilted	20	QPSK 50RB_25		1:1.58	0.334	-0.07	20.42	21.40	1.253	0.419	22.1
						ate 15mm				•	1
Front side	20	QPSK 1RB_0	40620/2593	1:1.58	0.099	0.17	24.40	25.40	1.259	0.125	22.1
Back side	20	QPSK 1RB_0	40620/2593	1:1.58	0.113	-0.03	24.40	25.40	1.259	0.142	22.1
	· · · · · · · · · · · · · · · · · · ·				a (Separat	e 15mm 50)%RB)				
Front side	20	QPSK 50RB_25		1:1.58	0.078	0.18	23.48	24.40	1.236	0.096	22.1
Back side	20	QPSK 50RB_25	20750/2506	1:1.58	0.122	-0.05	23.48	24.40	1.236	0.151	22.1



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		Dadwara	T		an a suith De	-#0#/0		FOO(DD)			
Deal side			Test data at th							0.444	00.4
Back side	20	QPSK 50RB_25		1:1.58	0.114	-0.12	23.48	24.40	1.236	0.141	22.1
					ta(Separat	e 10mm 11					
Front side	20	QPSK 1RB_99	41490/2680	1:1.58	0.045	-0.17	20.48	21.40	1.236	0.056	22.1
Back side	20	QPSK 1RB_99	41490/2680	1:1.58	0.101	0.10	20.48	21.40	1.236	0.125	22.1
Left side	20	QPSK 1RB_99	41490/2680	1:1.58	0.008	0.13	20.48	21.40	1.236	0.010	22.1
Top side	20	QPSK 1RB_99	41490/2680	1:1.58	0.103	0.15	20.48	21.40	1.236	0.127	22.1
						10mm 50					
Front side	20	QPSK 50RB_25		1:1.58	0.052	0.10	20.42	21.40	1.253	0.065	22.1
Back side	20	QPSK 50RB 25		1:1.58	0.117	-0.07	20.42	21.40	1.253	0.147	22.1
	20	QPSK 50RB_25			0.012						22.1
Left side				1:1.58		0.16	20.42	21.40	1.253	0.015	
Top side	20	QPSK 50RB_25		1:1.58	0.107	-0.17	20.42	21.40	1.253	0.134	22.1
			est data at the		1				1	1	
Back side	20	QPSK 50RB_25	41490/2680	1:1.58	0.102	0.11	20.42	21.40	1.253	0.128	22.1
				Ant8	Test Reco	ord					
			Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
			CII./I Teq.	Cycle	g	Dilit (GD)	(dBm)	(dBm)	lactor	(W/kg)	remp
				Head 7	Test data(1	IRB)					
Left cheek	20	QPSK 1RB_0	40620/2593	1:1.58	0.533	0.08	22.15	23.00	1.216	0.648	22.1
Left tilted	20	QPSK 1RB_0	40620/2593	1:1.58	0.076	-0.04	22.15	23.00	1.216	0.092	22.1
Right cheek	20	QPSK 1RB_0	40620/2593	1:1.58	0.465	0.10	22.15	23.00	1.216	0.566	22.1
Right tilted	20	QPSK 1RB_0	40620/2593	1:1.58	0.168	0.10	22.15	23.00	1.216	0.204	22.1
rtight tilted	20	QI OK IND_0	+0020/2000		est data(50		22.10	20.00	1.210	0.204	22.1
Loft chools	20	QPSK 50RB_25	4010E/0E40 E			-0.16	22.47	22.00	1 011	0.644	22.4
Left cheek	20				0.532		22.17	23.00	1.211	0.644	22.1
Left tilted	20	QPSK 50RB_25		1:1.58	0.081	-0.07	22.17	23.00	1.211	0.098	22.1
Right cheek	20	QPSK 50RB_25			0.471	0.17	22.17	23.00	1.211	0.570	22.1
Right tilted	20	QPSK 50RB_25			0.175	0.19	22.17	23.00	1.211	0.212	22.1
			Head Test da	ata at the v	vorst case	with Batte	ry2#(1RB)				
Left cheek	20	QPSK 1RB_0	40620/2593	1:1.58	0.508	0.02	22.15	23.00	1.216	0.618	22.1
			Body w	orn Test d	ata(Separ	ate 15mm	1RB)				
Front side	20	QPSK 1RB_0	40620/2593	1:1.58	0.060	0.14	22.15	23.00	1.216	0.073	22.1
Back side	20	QPSK 1RB_0	40620/2593	1:1.58	0.074	0.17	22.15	23.00	1.216	0.090	22.1
						e 15mm 50					
Front side	20	QPSK 50RB_25			0.065	0.15	22.17	23.00	1.211	0.079	22.1
Back side	20	QPSK 50RB_25			0.076	-0.04	22.17	23.00	1.211	0.092	22.1
Dack side	20		Test data at the							0.032	22.1
Deal side	00									0.070	00.4
Back side	20	QPSK 50RB_25			0.058	0.09	22.17	23.00	1.211	0.070	22.1
		T			, ` '	e 10mm 11				1	
Front side	20	QPSK 1RB_0	40620/2593	1:1.58	0.139	0.18	22.15	23.00	1.216	0.169	22.1
Back side	20	QPSK 1RB_0	40620/2593	1:1.58	0.143	0.17	22.15	23.00	1.216	0.174	22.1
Left side	20	QPSK 1RB_0	40620/2593	1:1.58	0.239	0.16	22.15	23.00	1.216	0.291	22.1
			Hotspot	t Test data	(Separate	10mm 50	%RB)				
Front side	20	QPSK 50RB_25			0.161	0.14	22.17	23.00	1.211	0.195	22.1
Back side	20	QPSK 50RB_25			0.162	-0.19	22.17	23.00	1.211	0.196	22.1
Left side	20	QPSK 50RB_25			0.247	0.02	22.17	23.00	1.211	0.299	22.1
		_	est data at the								
Left side	20	QPSK 50RB_25			0.214	-0.09	22.17	23.00	1.211	0.259	22.1
Len Side	20	WE ON DUND_20	HU 100/2049.5				ZZ. 1 <i>1</i>	23.00	1.211	0.209	ZZ. I
				Ant9	Test Reco		Conducto	T		Coalad	
Toot position	DW	Took was de	Test	Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
				-	g		(dBm)	(dBm)		(W/kg)	•
1 6 1 1		0001/ 100 55	40000/2727		est data(1	· ·		04.00	4 45 4	0.000	oc :
Left cheek	20	QPSK 1RB_99		1:1.58	0.057	0.08	23.44	24.20	1.191	0.068	22.1
Left tilted	20	QPSK 1RB_99		1:1.58	0.056	0.15	23.44	24.20	1.191	0.067	22.1
Right cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.146	-0.01	23.44	24.20	1.191	0.174	22.1
Right tilted	20	QPSK 1RB_99	40620/2593	1:1.58	0.126	-0.02	23.44	24.20	1.191	0.150	22.1
				Head Te	st data(50	%RB)	•			•	
Left cheek	20	QPSK 50RB_0	41490/2680	1:1.58	0.046	0.02	22.54	23.20	1.164	0.054	22.1
Left tilted	20	QPSK 50RB_0		1:1.58	0.041	-0.09	22.54	23.20	1.164	0.048	22.1
Lort tillou		W. O. O. O. O. D_O	11.00/2000		U.U-T I	0.00		-0.20		0.0-70	



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Right cheek	20	QPSK 50RB_0	41490/2680	1:1.58	0.127	-0.06	22.54	23.20	1.164	0.148	22.1	
Right tilted	20	QPSK 50RB_0	41490/2680	1:1.58	0.095	-0.05	22.54	23.20	1.164	0.111	22.1	
			Head Test da	ata at the v	vorst case	with Batter	y2#(1RB)					
Right cheek	20	QPSK 1RB_99	40620/2593	1:1.58	0.118	0.15	23.44	24.20	1.191	0.141	22.1	
			Body w	orn Test d	ata(Separa	ate 15mm	1RB)					
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.002	-0.07	19.55	20.20	1.161	0.002	22.1	
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.074	0.01	19.55	20.20	1.161	0.086	22.1	
			Body wor	n Test data	a (Separate	e 15mm 50)%RB)					
Front side	20	QPSK 50RB_0	41490/2680	1:1.58	0.003	-0.14	19.41	20.20	1.199	0.004	22.1	
Back side	20	QPSK 50RB_0	41490/2680	1:1.58	0.068	-0.11	19.41	20.20	1.199	0.082	22.1	
		Body wor	n Test data at	the worst	case with E	Battery2#(S	Separate 15	mm 1RB)				
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.062	0.03	19.55	20.20	1.161	0.072	22.1	
			Hotsp	ot Test dat	ta(Separate	e 10mm 1F	RB)					
Front side	20	QPSK 1RB_99	40620/2593	1:1.58	0.030	0.11	19.55	20.20	1.161	0.035	22.1	
Back side	20	QPSK 1RB_99	40620/2593	1:1.58	0.179	0.10	19.55	20.20	1.161	0.208	22.1	
Left side	20	QPSK 1RB_99	40620/2593	1:1.58	0.042	-0.06	19.55	20.20	1.161	0.049	22.1	
Top side	20	QPSK 1RB_99	40620/2593	1:1.58	0.030	-0.16	19.55	20.20	1.161	0.035	22.1	
			Hotspot	Test data	(Separate	10mm 50°	%RB)					
Front side	20	QPSK 50RB_0	41490/2680	1:1.58	0.059	0.10	19.41	20.20	1.199	0.071	22.1	
Back side	20	QPSK 50RB_0	41490/2680	1:1.58	0.191	0.01	19.41	20.20	1.199	0.229	22.1	
Left side	20	QPSK 50RB_0	41490/2680	1:1.58	0.045	0.15	19.41	20.20	1.199	0.054	22.1	
Top side	Top side 20 QPSK 50RB_0 41490/2680 1:1.58 0.037 0.02 19.41 20.20 1.199 0.044 22.1											
		Hotspot T	est data at the	worst cas	e with Batt	ery2#(Sep	arate 10mm	50%RB)				
Back side	20	QPSK 50RB_0	41490/2680	1:1.58	0.165	0.08	19.41	20.20	1.199	0.198	22.1	

Table 23: SAR of LTE Band 41 for Head and Body.



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8.3.14 SAR Result of LTE Band 66

				Ant1	Test Rec	ord					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(
Left cheek	20	QPSK 1RB_0	132572/1770	1:1	0.023	0.02	24.81	25.50	1.172	0.027	22.2
Left tilted	20	QPSK 1RB_0	132572/1770	1:1	0.014	-0.06	24.81	25.50	1.172	0.016	22.2
Right cheek	20	QPSK 1RB_0	132572/1770	1:1	0.048	0.10	24.81	25.50	1.172	0.056	22.2
Right tilted	20	QPSK 1RB_0	132572/1770	1:1	0.034	-0.03	24.81	25.50	1.172	0.040	22.2
				Head To	est data(50)%RB)					
Left cheek	20	QPSK 50RB_25		1:1	0.021	0.19	23.95	24.50	1.135	0.024	22.2
Left tilted	20	QPSK 50RB_25		1:1	0.010	0.19	23.95	24.50	1.135	0.011	22.2
Right cheek	20	QPSK 50RB_25	132072/1720	1:1	0.039	0.14	23.95	24.50	1.135	0.044	22.2
Right tilted	20	QPSK 50RB_25		1:1	0.028	-0.03	23.95	24.50	1.135	0.032	22.2
			Head Test d		worst case	with Batte	ry2#(1RB)				
Right cheek	20	QPSK 1RB_0	132572/1770	1:1	0.035	0.06	24.81	25.50	1.172	0.041	22.2
			Body v	vorn Test	data(Sepai	ate 15mm	1RB)				
Front side	20	QPSK 1RB_0	132572/1770		0.099	0.07	24.81	25.50	1.172	0.116	22.2
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.182	-0.05	24.81	25.50	1.172	0.213	22.2
			Body wo	rn Test da	ta (Separa	te 15mm 5	0%RB)				
Front side	20	QPSK 50RB_25	132072/1720	1:1	0.084	-0.01	23.95	24.50	1.135	0.095	22.2
Back side	20	QPSK 50RB_25	132072/1720	1:1	0.122	0.12	23.95	24.50	1.135	0.138	22.2
		Body wor	n Test data at	t the worst	case with	Battery2#(Separate 15	mm 1RB)			
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.163	0.03	24.81	25.50	1.172	0.191	22.2
			Hotsp	ot Test da	ta (Separa	te 10mm 1	RB)				
Front side	20	QPSK 1RB_0	132572/1770	1:1	0.195	-0.06	24.81	25.50	1.172	0.229	22.2
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.287	-0.11	24.81	25.50	1.172	0.336	22.2
Left side	20	QPSK 1RB_0	132572/1770	1:1	0.080	0.09	24.81	25.50	1.172	0.094	22.2
Bottom side	20	QPSK 1RB_0	132572/1770	1:1	0.564	-0.04	24.81	25.50	1.172	0.661	22.2
			Hotspot	t Test data	(Separate	10mm 50	%RB)				
Front side	20	QPSK 50RB_25	132072/1720	1:1	0.164	0.18	23.95	24.50	1.135	0.186	22.2
Back side	20	QPSK 50RB_25	132072/1720	1:1	0.240	0.10	23.95	24.50	1.135	0.272	22.2
Left side	20	QPSK 50RB_25	132072/1720	1:1	0.070	-0.03	23.95	24.50	1.135	0.079	22.2
Bottom side	20	QPSK 50RB_25	132072/1720	1:1	0.490	0.04	23.95	24.50	1.135	0.556	22.2
<u>.</u>		Hotspot	Test data at t	he worst c	ase with B	attery2#(Se	eparate 10m	m 1RB)			
Bottom side	20	QPSK 1RB_0	132572/1770	1:1	0.534	0.11	24.81	25.50	1.172	0.626	22.2
				Ant4	Test Rec	ord					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(1RB)					
Left cheek	20	QPSK 1RB_0	132572/1770	1:1	0.279	-0.08	18.79	19.40	1.151	0.321	22.2
Left tilted	20	QPSK 1RB_0		1:1	0.368	0.06	18.79	19.40	1.151	0.423	22.2
Right cheek	20	QPSK 1RB_0	132572/1770	1:1	0.381	-0.02	18.79	19.40	1.151	0.438	22.2
Right tilted	20	QPSK 1RB_0		1:1	0.512	-0.08	18.79	19.40	1.151	0.589	22.2
- 1				Head To	est data(50)%RB)				•	
Left cheek	20	QPSK 50RB_0	132322/1745		0.281	-0.04	18.54	19.40	1.219	0.343	22.2
Left tilted	20	QPSK 50RB_0			0.359	0.10	18.54	19.40	1.219	0.438	22.2
Right cheek	20	QPSK 50RB_0			0.392	0.09	18.54	19.40	1.219	0.478	22.2
Right tilted	20	QPSK 50RB_0			0.587	-0.02	18.54	19.40	1.219	0.716	22.2
		_					/2#(50%RB)				



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	1							•	•			
Right tilted	20	QPSK 50RB_0	132322/1745	1:1	0.562	0.17	18.54	19.40	1.219	0.685	22.2	
			Body v	vorn Test o	data(Separ	ate 15mm	1RB)					
Front side	20	QPSK 1RB_0	132572/1770	1:1	0.190	-0.14	24.60	25.40	1.202	0.228	22.2	
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.335	-0.02	24.60	25.40	1.202	0.403	22.2	
Body worn Test data (Separate 15mm 50%RB)												
Front side	20	QPSK 50RB_25	132072/1720	1:1	0.157	0.05	23.72	24.40	1.169	0.184	22.2	
Back side	20	QPSK 50RB_25	132072/1720	1:1	0.237	0.06	23.72	24.40	1.169	0.277	22.2	
		Body wor	n Test data at	the worst	case with	Battery2#(Separate 15	mm 1RB)				
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.308	0.16	24.60	25.40	1.202	0.370	22.2	
			Hotsp	ot Test da	ta (Separa	te 10mm 1	RB)					
Front side	20	QPSK 1RB_0	132572/1770	1:1	0.106	-0.02	18.79	19.40	1.151	0.122	22.2	
Back side	20	QPSK 1RB_0	132572/1770	1:1	0.178	0.01	18.79	19.40	1.151	0.205	22.2	
Left side	20	QPSK 1RB_0	132572/1770	1:1	0.038	0.13	18.79	19.40	1.151	0.044	22.2	
Top side	20	QPSK 1RB_0	132572/1770	1:1	0.258	0.05	18.79	19.40	1.151	0.297	22.2	
			Hotspot	t Test data	(Separate	10mm 50°	%RB)					
Front side	20	QPSK 50RB_0	132322/1745	1:1	0.102	-0.05	18.54	19.40	1.219	0.124	22.2	
Back side	20	QPSK 50RB_0	132322/1745	1:1	0.155	0.01	18.54	19.40	1.219	0.189	22.2	
Left side	20	QPSK 50RB_0	132322/1745	1:1	0.030	0.05	18.54	19.40	1.219	0.037	22.2	
Top side	20	QPSK 50RB_0	132322/1745	1:1	0.237	-0.02	18.54	19.40	1.219	0.289	22.2	
		Hotspot	Test data at t	he worst c	ase with B	attery2#(Se	eparate 10m	m 1RB)				
Top side	20	QPSK 1RB_0	132572/1770	1:1	0.221	0.01	18.79	19.40	1.151	0.254	22.2	

Table 24: SAR of LTE Band 66 for Head and Body.



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8.3.15 SAR Result of 5G NR n5

	Ant2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp		
			<u> </u>	lead Test D	ata 1RB							
Left cheek	20	QPSK 1RB_1	166800/834	0.120	-0.03	19.52	20.70	1.312	0.157	22.1		
Left tilted	20	QPSK 1RB_1	166800/834	0.073	-0.09	19.52	20.70	1.312	0.096	22.1		
Right cheek	20	QPSK 1RB_1	166800/834	0.318	0.01	19.52	20.70	1.312	0.417	22.1		
Right tilted	20	QPSK 1RB_1	166800/834	0.186	-0.03	19.52	20.70	1.312	0.244	22.1		
			He	ad Test Da	ta 50%RB							
Left cheek	20	QPSK 50RB_28	167800/839	0.117	0.06	19.51	20.70	1.315	0.154	22.1		
Left tilted	20	QPSK 50RB_28	167800/839	0.081	-0.04	19.51	20.70	1.315	0.106	22.1		
Right cheek	20	QPSK 50RB_28	167800/839	0.339	-0.14	19.51	20.70	1.315	0.446	22.1		
Right tilted	20	QPSK 50RB_28	167800/839	0.221	0.06	19.51	20.70	1.315	0.291	22.1		
		H	ead Test Data at t	he worst ca	se with Bat	tery2# (50%RE	5)			T		
Right cheek	20	QPSK 50RB_28	167800/839	0.317	0.09	19.51	20.70	1.315	0.417	22.1		
	1	T			ta (15mm 1				1			
Front side	20	QPSK 1RB_1	166800/834	0.090	-0.02	24.58	25.70	1.294	0.116	22.1		
Back side	20	QPSK 1RB_1	166800/834	0.107	0.03	24.58	25.70	1.294	0.138	22.1		
		T		n Test Data	(15mm 50	%RB)			1	ı		
Front side	20	QPSK 50RB_28	167300/836.5	0.104	-0.17	24.57	25.70	1.297	0.135	22.1		
Back side	20	QPSK 50RB_28	167300/836.5	0.109	-0.06	24.57	25.70	1.297	0.141	22.1		
			orn Test Data at th		se with Bat		0%RB)		1	ı		
Back side	20	QPSK 50RB_28	167300/836.5	0.098	0.03	24.57	25.70	1.297	0.127	22.1		
		T	Hotspo	ot Test Data	a (10mm 1F				1	ı		
Front side	20	QPSK 1RB_1	166800/834	0.072	0.07	19.52	20.70	1.312	0.094	22.1		
Back side	20	QPSK 1RB_1	166800/834	0.082	0.02	19.52	20.70	1.312	0.108	22.1		
Left side	20	QPSK 1RB_1	166800/834	0.104	0.06	19.52	20.70	1.312	0.136	22.1		
Top side	20	QPSK 1RB_1	166800/834	0.030	0.00	19.52	20.70	1.312	0.039	22.1		
		T		Test Data	(10mm 50%				1	T		
Front side	20	QPSK 50RB_28	167800/839	0.072	-0.01	19.51	20.70	1.315	0.095	22.1		
Back side	20	QPSK 50RB_28	167800/839	0.078	-0.06	19.51	20.70	1.315	0.103	22.1		
Left side	20	QPSK 50RB_28	167800/839	0.106	-0.04	19.51	20.70	1.315	0.139	22.1		
Top side	20	QPSK 50RB_28	167800/839	0.030	-0.06	19.51	20.70	1.315	0.039	22.1		
	1		ot Test Data at the			· `			1			
Left side	20	QPSK 50RB_28	167800/839	0.095	0.01	19.51	20.70	1.315	0.125	22.1		
	1	1		Ant10 Test	Record							
Test position	BW.	Test mode	Test ch./Freq.	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp		
1 -44 -11-		ODOK 4DD 50		lead Test D		04.05	05.50	4.040	0.000	00.4		
Left cheek	20	QPSK 1RB_53	166800/834	0.074	0.01	24.65	25.50	1.216	0.090	22.1		
Left tilted	20	QPSK 1RB_53	166800/834	0.033	-0.02	24.65	25.50	1.216	0.040	22.1		
Right cheek	20	QPSK 1RB_53	166800/834	0.062	0.06	24.65	25.50	1.216	0.075	22.1		
Right tilted	20	QPSK 1RB_53	166800/834	0.043	-0.06	24.65	25.50	1.216	0.052	22.1		
				ad Test Da								
Left cheek	20	QPSK 50RB_28	166800/834	0.076	-0.07	24.64	25.50	1.219	0.093	22.1		
Left tilted	20	QPSK 50RB_28	166800/834	0.035	-0.07	24.64	25.50	1.219	0.042	22.1		
Right cheek	20	QPSK 50RB_28	166800/834	0.058	0.04	24.64	25.50	1.219	0.070	22.1		
Right tilted	20	QPSK 50RB_28	166800/834	0.043	-0.09	24.64	25.50	1.219	0.052	22.1		



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Head Test Data at the worst case with Battery2# (50%RB)													
Left cheek	20	QPSK 50RB_28	166800/834	0.058	0.03	24.64	25.50	1.219	0.071	22.1			
				orn Test Da									
Front side	20	QPSK 1RB_53	166800/834	0.110	0.02	24.65	25.50	1.216	0.134	22.1			
Back side	20	QPSK 1RB_53	166800/834	0.139	-0.09	24.65	25.50	1.216	0.169	22.1			
	Body worn Test Data (15mm 50%RB)												
Front side	20	QPSK 50RB_28	166800/834	0.107	0.10	24.64	25.50	1.219	0.130	22.1			
Back side 20 QPSK 50RB_28 166800/834 0.134 -0.02 24.64 25.50 1.219 0.163 22.1													
		Body v	vorn Test Data at	the worst c	ase with Ba	attery2#(15mm	1RB)						
Back side 20 QPSK 1RB_53 166800/834 0.107 0.13 24.65 25.50 1.216 0.130 22.1													
			Hotspo	ot Test Data	a (10mm 1F	RB)							
Front side	20	QPSK 1RB_1	166800/834	0.170	0.13	23.61	24.50	1.227	0.209	22.1			
Back side	20	QPSK 1RB_1	166800/834	0.183	-0.05	23.61	24.50	1.227	0.225	22.1			
Right side	20	QPSK 1RB_1	166800/834	0.052	-0.09	23.61	24.50	1.227	0.064	22.1			
Bottom side	20	QPSK 1RB_1	166800/834	0.144	-0.14	23.61	24.50	1.227	0.177	22.1			
			Hotspot	Test Data	(10mm 50%	6RB)							
Front side	20	QPSK 50RB_28	166800/834	0.174	-0.02	23.66	24.50	1.213	0.211	22.1			
Back side	20	QPSK 50RB_28	166800/834	0.201	-0.03	23.66	24.50	1.213	0.244	22.1			
Right side	20	QPSK 50RB_28	166800/834	0.062	-0.01	23.66	24.50	1.213	0.075	22.1			
Bottom side	Bottom side 20 QPSK 50RB_28 166800/834 0.138 -0.13 23.66 24.50 1.213 0.167 22.1												
		Hotspo	ot Test Data at the	worst case	with Batte	ry2#(10mm 50	%RB)						
Back side	20	QPSK 50RB_28	166800/834	0.183	0.04	23.66	24.50	1.213	0.222	22.1			

Table 25: SAR of 5G NR n5 for Head and Body.



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8.3.16 SAR Result of 5G NR n7

	1			^	nt1 Test Re		Canaluatad	T		Caalad	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
			•	He	ad Test Data						
Left cheek	20	QPSK 1RB_1	512000/2560	1:1	0.095	-0.06	21.06	22.20	1.300	0.124	22.1
Left tilted	20	QPSK 1RB_1	512000/2560	1:1	0.032	0.12	21.06	22.20	1.300	0.042	22.1
Right cheek	20	QPSK 1RB_1	512000/2560	1:1	0.056	0.02	21.06	22.20	1.300	0.073	22.1
Right tilted	20	QPSK 1RB_1	512000/2560	1:1	0.040	-0.13	21.06	22.20	1.300	0.052	22.1
				Head	Test Data	50%RB)				•	
Left cheek	20	QPSK 50RB_28	507000/2535	1:1	0.102	0.03	21.03	22.20	1.309	0.134	22.1
Left tilted	20	QPSK 50RB_28	507000/2535	1:1	0.049	0.15	21.03	22.20	1.309	0.064	22.1
Right cheek	20	QPSK 50RB_28	507000/2535	1:1	0.066	0.07	21.03	22.20	1.309	0.086	22.1
Right tilted	20	QPSK 50RB_28	507000/2535	1:1	0.055	0.04	21.03	22.20	1.309	0.072	22.1
			Head Test D	ata at th	e worst case	with Bat	tery2#(50%R	B)			
Left cheek	20	QPSK 50RB_28	507000/2535	1:1	0.086	-0.05	21.03	22.20	1.309	0.113	22.1
			Body	worn Te	est data(Sepa	arate 15n	nm 1RB)				
Front side	20	QPSK 1RB_1	512000/2560	1:1	0.191	-0.06	21.06	22.20	1.300	0.248	22.1
Back side	20	QPSK 1RB_1	512000/2560	1:1	0.201	-0.05	21.06	22.20	1.300	0.261	22.1
			Body v	vorn Tes	t data(Separ	ate 15mr	n 50%RB)		<u>'</u>	'	
Front side	20	QPSK 50RB_28	507000/2535	1:1	0.207	-0.09	21.03	22.20	1.309	0.271	22.1
Back side	20	QPSK 50RB_28	507000/2535	1:1	0.214	0.01	21.03	22.20	1.309	0.280	22.1
		Body w	orn Test data a	t the wor	st case with	Battery2#	#(Separate 15	5mm 50%l	RB)	•	
Back side	20	QPSK 50RB_28		1:1	0.196	0.17	21.03	22.20	1.309	0.257	22.1
			Hot	spot Test	t data(Separ	ate 10mr	n 1RB)		<u> </u>		
Front side	20	QPSK 1RB_1	507000/2535	1:1	0.124	-0.12	16.08	17.20	1.294	0.160	22.1
Back side	20	QPSK 1RB_1	507000/2535	1:1	0.127	0.09	16.08	17.20	1.294	0.164	22.1
Left side	20	QPSK 1RB_1	507000/2535	1:1	0.068	0.09	16.08	17.20	1.294	0.088	22.1
Bottom side	20	QPSK 1RB_1	507000/2535	1:1	0.113	0.11	16.08	17.20	1.294	0.146	22.1
			Hotsp	ot Test o	data(Separat	e 10mm			<u> </u>		
Front side	20	QPSK 50RB_0	502000/2510	1:1	0.119	-0.03	16.06	17.20	1.300	0.155	22.1
Back side	20	QPSK 50RB_0	502000/2510	1:1	0.122	0.19	16.06	17.20	1.300	0.159	22.1
Left side	20	QPSK 50RB_0	502000/2510	1:1	0.066	-0.15	16.06	17.20	1.300	0.086	22.1
Bottom side	20	QPSK 50RB_0	502000/2510	1:1	0.110	0.13	16.06	17.20	1.300	0.143	22.1
		Hots	pot Test data a	the wors	st case with	Battery2#	(Separate 10	mm 1RB)			
Back side	20	QPSK 1RB_1	507000/2535	1:1	0.103	-0.06	16.08	17.20	1.294	0.133	22.1
				Α	nt4 Test Re	cord					
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.		(W/kg) 1-g	Drift	Power	Limit	factor	SAR	Temp
						(dB)	(dBm)	(dBm)	10.0101	(W/kg)	
l off observe	20	ODEK ADD. 404	E02000/2542		ad Test Data	·	1400	15.00	1 200	0.400	00.4
Left cheek	20	QPSK 1RB_104	1	1:1	0.122	0.16	14.20	15.60	1.380	0.168	22.1
Left tilted	20	QPSK 1RB_104		1:1	0.125	0.04	14.20	15.60	1.380	0.173	22.1
Right cheek		QPSK 1RB_104		1:1	0.216	0.19	14.20	15.60	1.380	0.298	22.1
Right tilted	20	QPSK 1RB_104	502000/2510	1:1	0.222	0.14	14.20	15.60	1.380	0.306	22.1
l oft about	00	ODEK FORD CO	E40000/0500		Test Data		1440	15.00	1 110	0 477	00.4
Left cheek	_	QPSK 50RB_28		1:1	0.125	-0.03	14.10	15.60	1.413	0.177	22.1
Left tilted	_	QPSK 50RB_28		1:1	0.128	0.00	14.10	15.60	1.413	0.181	22.1
Right cheek		QPSK 50RB_28		1:1	0.202	-0.10	14.10	15.60	1.413	0.285	22.1
Right tilted	20	QPSK 50RB_28		1:1	0.224	0.04	14.10	15.60	1.413	0.316	22.1
Diales (9) - d	100	ODCK FORD 33					tery2#(50%R		4 440	0.007	00.4
Right tilted	20	QPSK 50RB_28		1:1	0.203	-0.04	14.10	15.60	1.413	0.287	22.1
	166	0001/ 100 ==			est data(Sepa			04.00	400.	0.40-	
Front side	20	QPSK 1RB_53		1:1	0.076	-0.11	20.19	21.60	1.384	0.105	22.1
Back side	20	QPSK 1RB_53		1:1	0.163	0.09	20.19	21.60	1.384	0.226	22.1
	1	0001/ -05-			t data(Separ			01.0-	4 1	0.40-	
Front side	1 20	QPSK 50RB_28	502000/2510	1:1	0.071	0.16	20.04	21.60	1.432	0.102	22.1
Back side		QPSK 50RB_28		1:1	0.140	0.19	20.04	21.60	1.432	0.201	22.1



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Booky worn Test data at the worst case with Battery2Ff(Separate 16mm 1RB)								0,11/0	45 45	D \		
Hotspot Test data(Separate 10mm 1RB)	Deeds elde	100									0.405	00.4
Front side	Back side	20	QPSK 1RB_53						21.60	1.384	0.185	22.1
Back side 20			1			· · · · ·				1		
Left side												
Top side		_										
Hotspot Test data General Florm S0V-RPB		_										
Front side 20	Top side	20	QPSK 1RB_104						15.60	1.380	0.088	22.1
Back side 20												
Left side 20		_									-	
Top side		_									-	
Hotspot Test data at the worst-zese with Batteny2#(Separate 10mm 50%;RB)												
Top side 20 QPSK 50RB_28 507000/2535 1:1 0.052 -0.01 14.10 15.60 1.413 0.073 22.1	Top side	20									0.110	22.1
Test position BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 1-g) Point Cycle (W/kg) 1-g) Point Cycle Cycle (W/kg) 1-g) Point Cycle					he worst		attery2#(nm 50%RI			
Test position BW. Test mode Test ch./Freq. Duty Cycle SAR Cycle Wigh 1-g Orift (dBm) Orift (dBm) Cycle Wigh 1-g Cycle Cycle	Top side	20	QPSK 50RB_28	507000/2535	L	L		14.10	15.60	1.413	0.073	22.1
Test position BW					Aı	nt8 Test Re	cord					
Test mode			_		Duty	SAR				Scaled		Liquid
Head Test Data(1RB)	Test position	BW.	Test mode	Test ch./Freq.								
Left cheek 20 QPSK 1RB_1 502000/2510 1:1 0.282 0.04 19.23 20.00 1.194 0.066 22.1							(ub)	(dBm)	(dBm)		(W/kg)	•
Left tilled 20 QPSK 1RB_1 502000/2510 1:1 0.055 0.19 19.23 20.00 1.194 0.368 22.1	1 -61 -1	100	0001/455 1	500000/05/0			` ′	40.00	00.00	4 404	0.007	00.4
Right thelek 20 QPSK 1RB_1 502000/2510 1:1 0.073 -0.04 19.23 20.00 1.194 0.087 22.1		_										
Right tilted 20		_										
Head Test Data(50%RB) Head Test Data(50%RB)		_										
Left cheek 20 QPSK 50RB_28 512000/2560 1:1 0.259 0.02 19.09 20.00 1.233 0.319 22.1	Right tilted	20	QPSK 1RB_1	502000/2510				19.23	20.00	1.194	0.087	22.1
Left tilted			1	1				1		I		
Right cheek 20 QPSK 50RB 28 512000/2560 1:1 0.288 -0.02 19.09 20.00 1.233 0.355 22.1		_									-	
Right tilted 20 QPSK 50RB_28 512000/2560 1:1 0.055 -0.04 19.09 20.00 1.233 0.068 22.1		_										
Head Test Data at the worst case with Battery2#(1RB)		_										
Right cheek 20	Right tilted	20	QPSK 50RB_28							1.233	0.068	22.1
Body worn Test data(Separate 15mm 1RB)				Head Test	Data at t		se with Ba					
Front side 20	Right cheek	20	QPSK 1RB_1						20.00	1.194	0.353	22.1
Back side 20												
Body worn Test data(Separate 15mm 50%RB)												
Front side 20	Back side	20	QPSK 1RB_1						20.00	1.194	0.059	22.1
Back side 20					worn Test							
Body worn Test data at the worst case with Battery2#(Separate 15mm 50% RB)	Front side											
Back side 20	Back side	20									0.068	22.1
Front side 20			Body w	orn Test data a	t the wors	t case with	Battery2#	(Separate 1	5mm 50%	RB)		
Front side 20	Back side	20	QPSK 50RB_28						20.00	1.233	0.052	22.1
Back side 20				Hot	spot Test	data(Separ	ate 10mn	n 1RB)				
Left side 20	Front side	20	QPSK 1RB_1	502000/2510	1:1	0.101	-0.04	19.23	20.00	1.194	0.121	22.1
Hotspot Test data(Separate 10mm 50%RB) Front side 20	Back side	20	QPSK 1RB_1	502000/2510	1:1	0.102	0.02	19.23	20.00	1.194	0.122	22.1
Front side 20 QPSK 50RB_28 512000/2560 1:1 0.111 -0.11 19.09 20.00 1.233 0.137 22.1	Left side	20	QPSK 1RB_1						20.00	1.194	0.186	22.1
Back side 20 QPSK 50RB_28 512000/2560 1:1 0.105 -0.01 19.09 20.00 1.233 0.129 22.1				Hots	oot Test d	ata(Separa	te 10mm	50%RB)				
Left side 20	Front side	20	QPSK 50RB_28						20.00	1.233	0.137	22.1
Left side 20 QPSK 50RB_28 512000/2560 1:1 0.172 0.05 19.09 20.00 1.233 0.212 22.1	Back side	20	QPSK 50RB_28	512000/2560	1:1	0.105	-0.01	19.09	20.00	1.233	0.129	22.1
Left side 20 QPSK 50RB_28 512000/2560 1:1 0.153 0.14 19.09 20.00 1.233 0.189 22.1	Left side	20								1.233	0.212	22.1
Left side 20 QPSK 50RB_28 512000/2560 1:1 0.153 0.14 19.09 20.00 1.233 0.189 22.1			Hotspo	ot Test data at t	he worst	case with B	attery2#(Separate 10n	nm 50%RI	3)		
Test position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1-g Power (dBm) Conducted Power (dBm) Tune up (dBm) Scaled factor Scaled factor Scaled (W/kg) Liquid Temp Left cheek 20 QPSK 1RB_104 507000/2535 1:1 0.238 -0.02 24.47 25.50 1.268 0.302 22.1 Left tilted 20 QPSK 1RB_104 507000/2535 1:1 0.178 -0.11 24.47 25.50 1.268 0.226 22.1 Right cheek 20 QPSK 1RB_104 507000/2535 1:1 0.354 -0.08 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.160 22.1 Head Test Data(50%RB)	Left side	20									0.189	22.1
Test position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1-g Power (dBm) Conducted Power (dBm) Tune up (dBm) Scaled factor Scaled factor Scaled (W/kg) Liquid Temp Left cheek 20 QPSK 1RB_104 507000/2535 1:1 0.238 -0.02 24.47 25.50 1.268 0.302 22.1 Left tilted 20 QPSK 1RB_104 507000/2535 1:1 0.178 -0.11 24.47 25.50 1.268 0.226 22.1 Right cheek 20 QPSK 1RB_104 507000/2535 1:1 0.354 -0.08 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.160 22.1 Head Test Data(50%RB)					Ar	t10 Test Re	ecord					
Test position BW. Test mode Test ch./Freq. Uty Cycle (W/kg) 1-g Drift (dB) Power (dBm) Limit (dBm) SAR (W/kg) Tent under the power (dBm) Limit (dBm) SAR (W/kg) Tent under the power (dBm) Limit (dBm) SAR (W/kg) Tent under the power (dBm) Limit (dBm) SAR (W/kg) Tent under the power (dBm) Limit (dBm) SAR (W/kg) Tent under the power (dBm) Limit (dBm) Left the power (dBm) Limit (dBm) Found (dBm) Limit (dBm) Found (dBm) Limit (dBm) Found (dBm) Limit (dBm) Li					Duty			Conducted	Tune up	Social	Scaled	المساط
Head Test Data(1RB) Left cheek	Test position	BW.	Test mode	Test ch./Freq.			Drift	Power	Limit			
Left cheek 20 QPSK 1RB_104 507000/2535 1:1 0.238 -0.02 24.47 25.50 1.268 0.302 22.1 Left tilted 20 QPSK 1RB_104 507000/2535 1:1 0.178 -0.11 24.47 25.50 1.268 0.226 22.1 Right cheek 20 QPSK 1RB_104 507000/2535 1:1 0.354 -0.08 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.160 22.1 Head Test Data(50%RB) Left cheek 20 QPSK 50RB_28 507000/2535 1:1 0.240 -0.12 24.46 25.50 1.271 0.305 22.1							(ub)	(dBm)	(dBm)	iuotoi	(W/kg)	Tomp
Left tilted 20 QPSK 1RB_104 507000/2535 1:1 0.178 -0.11 24.47 25.50 1.268 0.226 22.1 Right cheek 20 QPSK 1RB_104 507000/2535 1:1 0.354 -0.08 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.160 22.1 Head Test Data(50%RB) Left cheek 20 QPSK 50RB_28 507000/2535 1:1 0.240 -0.12 24.46 25.50 1.271 0.305 22.1			T = = =	1				,		1		
Right cheek 20 QPSK 1RB_104 507000/2535 1:1 0.354 -0.08 24.47 25.50 1.268 0.449 22.1 Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.160 22.1 Head Test Data(50%RB) Left cheek 20 QPSK 50RB_28 507000/2535 1:1 0.240 -0.12 24.46 25.50 1.271 0.305 22.1	Left cheek	_	_									
Right tilted 20 QPSK 1RB_104 507000/2535 1:1 0.126 -0.13 24.47 25.50 1.268 0.160 22.1 Head Test Data(50%RB) Left cheek 20 QPSK 50RB_28 507000/2535 1:1 0.240 -0.12 24.46 25.50 1.271 0.305 22.1	Left tilted	_	_				-0.11				0.226	
Head Test Data(50%RB) Left cheek 20 QPSK 50RB_28 507000/2535 1:1 0.240 -0.12 24.46 25.50 1.271 0.305 22.1												
Left cheek 20 QPSK 50RB_28 507000/2535 1:1 0.240 -0.12 24.46 25.50 1.271 0.305 22.1	Right tilted	20	QPSK 1RB_104	507000/2535				24.47	25.50	1.268	0.160	22.1
Left tilted 20 QPSK 50RB_28 507000/2535 1:1 0.188 -0.18 24.46 25.50 1.271 0.239 22.1							-0.12					
	Left tilted	20	QPSK 50RB_28	507000/2535	1:1	0.188	-0.18	24.46	25.50	1.271	0.239	22.1



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Right cheek	20	QPSK 50RB_28	507000/2535	1:1	0.377	0.02	24.46	25.50	1.271	0.479	22.1			
Right tilted	20	QPSK 50RB_28	507000/2535	1:1	0.149	0.13	24.46	25.50	1.271	0.189	22.1			
			Head Test D	ata at the	e worst case	with Batt	tery2#(50%R	(B)						
Right cheek	20	QPSK 50RB_28	507000/2535	1:1	0.342	-0.03	24.46	25.50	1.271	0.435	22.1			
	Body worn Test data(Separate 15mm 1RB)													
Front side														
Back side	20	QPSK 1RB_104	507000/2535	1:1	0.351	0.02	24.47	25.50	1.268	0.445	22.1			
			Body v	vorn Test	data(Sepai	ate 15mn	n 50%RB)							
Front side	20	QPSK 50RB_28	507000/2535	1:1	0.250	0.06	24.46	25.50	1.271	0.318	22.1			
Back side	20	QPSK 50RB_28	507000/2535	1:1	0.318	-0.10	24.46	25.50	1.271	0.404	22.1			
		Body v	worn Test data	at the wo	rst case wit	h Battery2	2#(Separate	15mm 1RI	B)					
Back side	20	QPSK 1RB_104	507000/2535	1:1	0.324	-0.08	24.47	25.50	1.268	0.411	22.1			
			Hots	spot Test	data(Separ	ate 10mn	n 1RB)							
Front side	20	QPSK 1RB_104	502000/2510	1:1	0.178	0.02	20.42	21.50	1.282	0.228	22.1			
Back side	20	QPSK 1RB_104	502000/2510	1:1	0.229	-0.05	20.42	21.50	1.282	0.294	22.1			
Right side	20	QPSK 1RB_104	502000/2510	1:1	0.344	-0.18	20.42	21.50	1.282	0.441	22.1			
Bottom side	20	QPSK 1RB_104	502000/2510	1:1	0.073	0.17	20.42	21.50	1.282	0.094	22.1			
			Hotsp	ot Test d	ata(Separa	te 10mm :	50%RB)							
Front side	20	QPSK 50RB_0	502000/2510	1:1	0.188	-0.02	20.46	21.50	1.271	0.239	22.1			
Back side	20	QPSK 50RB_0	502000/2510	1:1	0.231	0.05	20.46	21.50	1.271	0.294	22.1			
Right side	20	QPSK 50RB_0	502000/2510	1:1	0.357	0.08	20.46	21.50	1.271	0.454	22.1			
Bottom side	20	QPSK 50RB_0	502000/2510	1:1	0.071	0.02	20.46	21.50	1.271	0.090	22.1			
		Hotspo	ot Test data at t	he worst	case with B	attery2#(S	Separate 10r	nm 50%RI	3)					
Right side	20	QPSK 50RB_0	502000/2510	1:1	0.323	0.07	20.46	21.50	1.271	0.410	22.1			

Table 26: SAR of 5G NR n7 for Head and Body.



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8.3.17 SAR Result of 5G NR n38

				An	t1 Test Re	ecord				1	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	d Test Data	a(1RB)					
Left cheek	20	QPSK 1RB_1	519000/2595	1:1	0.089	0.04	21.06	22.10	1.271	0.114	22.1
Left tilted	20	QPSK 1RB_1	519000/2595	1:1	0.042	0.05	21.06	22.10	1.271	0.053	22.1
Right cheek	20	QPSK 1RB_1	519000/2595	1:1	0.064	0.14	21.06	22.10	1.271	0.081	22.1
Right tilted	20	QPSK 1RB_1	519000/2595	1:1	0.033	-0.01	21.06	22.10	1.271	0.042	22.1
l aft als a als	200	ODCK FODD, 20	E00000/0040		Test Data(· /	20.00	20.40	4 004	0.400	00.4
Left cheek Left tilted	20	QPSK 50RB_28	522000/2610 522000/2610	1:1 1:1	0.082	-0.07	20.99 20.99	22.10 22.10	1.291	0.106	22.1 22.1
Right cheek	20	QPSK 50RB_28 QPSK 50RB 28		1:1	0.038	0.05 -0.18	20.99	22.10	1.291 1.291	0.049 0.070	22.1
Right tilted	20	QPSK 50RB_28		1:1	0.034	-0.10	20.99	22.10	1.291	0.070	22.1
rtigrit tilled	20	QI SIX SUIXB_20					tery2#(1RB)	22.10	1.231	0.021	22.1
Left cheek	20	QPSK 1RB_1	519000/2595	1:1	0.065	-0.03	21.06	22.10	1.271	0.083	22.1
2011 0110011	1	<u> </u>				arate 15mr				0.000	
Front side	20	QPSK 1RB_1	519000/2595	1:1	0.161	0.13	21.06	22.10	1.271	0.205	22.1
Back side	20	QPSK 1RB_1	519000/2595	1:1	0.200	0.18	21.06	22.10	1.271	0.254	22.1
	•		Body w	orn Test	data(Sepa	rate 15mm	50%RB)			•	
Front side	20	QPSK 50RB_28	522000/2610	1:1	0.165	-0.11	20.99	22.10	1.291	0.213	22.1
Back side	20	QPSK 50RB_28		1:1	0.216	-0.09	20.99	22.10	1.291	0.279	22.1
			rn Test data at					nm 50%RB			
Back side	20	QPSK 50RB_28		1:1	0.203	0.06	20.99	22.10	1.291	0.262	22.1
		T				rate 10mm		1		ı	1
Front side	20	QPSK 1RB_1	522000/2610	1:1	0.122	-0.13	17.12	18.10	1.253	0.153	22.1
Back side	20	QPSK 1RB_1	522000/2610	1:1	0.153	0.06	17.12	18.10	1.253	0.192	22.1
Left side	20	QPSK 1RB_1	522000/2610	1:1	0.052	-0.08	17.12	18.10	1.253	0.065	22.1
Bottom side	20	QPSK 1RB_1	522000/2610	1:1	0.148	0.12	17.12	18.10	1.253	0.185	22.1
Front oids	20	QPSK 50RB 28				te 10mm 50	17.05	10.10	1.274	0.474	22.1
Front side Back side	20	QPSK 50RB_28		1:1 1:1	0.134 0.159	0.02 0.14	17.05	18.10 18.10	1.274	0.171 0.202	22.1
Left side	20	QPSK 50RB_28		1:1	0.139	0.14	17.05	18.10	1.274	0.062	22.1
Bottom side	20	QPSK 50RB_28		1:1	0.049	0.04	17.05	18.10	1.274	0.002	22.1
Bottom side			t Test data at th						1.27	0.107	22.1
Back side	20	QPSK 50RB_28		1:1	0.134	0.03	17.05	18.10	1.274	0.171	22.1
24011 0.40	1 = 0	<u> </u>	0.0000/2000		t4 Test Re	1	11.00		,	V	
					SAR	Power	Conducted	Tune up	011	Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg) 1- g	Drift (dB)	Power (dBm)	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
1 6 1 1	1 00	0001(400.4	500000/0040		d Test Data	<u>, , , , , , , , , , , , , , , , , , , </u>	10.01	47.00	4.077	0.004	00.4
Left cheek	20	QPSK 1RB_1	522000/2610	1:1	0.170	-0.15	16.21	17.60	1.377	0.234	22.1
Left tilted	20	QPSK 1RB_1	522000/2610	1:1	0.179	-0.17	16.21	17.60	1.377	0.247	22.1
Right cheek Right tilted	20	QPSK 1RB_1 QPSK 1RB 1	522000/2610 522000/2610	1:1 1:1	0.299	0.11 -0.18	16.21 16.21	17.60 17.60	1.377 1.377	0.412 0.431	22.1 22.1
right tilted	120	WESK IKD_I	322000/2010		Test Data(10.21	17.00	1.3//	0.431	۷۷.۱
Left cheek	20	QPSK 50RB_28	516000/2580	1:1	0.175	-0.03	16.01	17.60	1.442	0.252	22.1
Left tilted	20	QPSK 50RB_28		1:1	0.173	0.06	16.01	17.60	1.442	0.252	22.1
Right cheek	20	QPSK 50RB_28		1:1	0.102	-0.05	16.01	17.60	1.442	0.202	22.1
Right tilted	20	QPSK 50RB_28		1:1	0.318	0.13	16.01	17.60	1.442	0.459	22.1
	,	, 2.1. 20.1.D_E0	Head Test Da								
Right tilted	20	QPSK 50RB_28		1:1	0.305	-0.04	16.01	17.60	1.442	0.440	22.1
<u> </u>						arate 15mr					•
Front side	20	QPSK 1RB_1	522000/2610	1:1	0.072	-0.19	20.16	21.60	1.393	0.100	22.1
Back side	20	QPSK 1RB_1	522000/2610	1:1	0.129	0.05	20.16	21.60	1.393	0.180	22.1
				orn Test		rate 15mm	50%RB)				
Front side	20	QPSK 50RB_28	522000/2610	1:1	0.065	0.18	19.98	21.60	1.452	0.094	22.1
1 TOTAL SIGO											



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			-		***	D 0(0	500/ DD			
6	1 00		rn Test data at			, ,				0.454	00.4
Back side	20	QPSK 50RB_28		1:1	0.106	0.01	19.98	21.60	1.452	0.154	22.1
		1		pot Test		ate 10mm				1	
Front side	20	QPSK 1RB_1	522000/2610	1:1	0.055	-0.16	16.21	17.60	1.377	0.076	22.1
Back side	20	QPSK 1RB_1	522000/2610	1:1	0.108	0.17	16.21	17.60	1.377	0.149	22.1
Left side	20	QPSK 1RB_1	522000/2610	1:1	0.035	-0.11	16.21	17.60	1.377	0.048	22.1
Top side	20	QPSK 1RB_1	522000/2610	1:1	0.110	0.01	16.21	17.60	1.377	0.151	22.1
			Hotsp	ot Test da	ata(Separa	te 10mm 5	0%RB)				
Front side	20	QPSK 50RB_28	516000/2580	1:1	0.058	-0.07	16.01	17.60	1.442	0.084	22.1
Back side	20	QPSK 50RB_28	516000/2580	1:1	0.113	-0.11	16.01	17.60	1.442	0.163	22.1
Left side	20	QPSK 50RB_28	516000/2580	1:1	0.038	0.16	16.01	17.60	1.442	0.055	22.1
Top side	20	QPSK 50RB_28	516000/2580	1:1	0.119	0.09	16.01	17.60	1.442	0.172	22.1
		Hotspo	t Test data at th	ne worst c	ase with B	attery2#(S	eparate 10mn	n 50%RB)			
Top side	20	QPSK 50RB_28	516000/2580	1:1	0.101	-0.08	16.01	17.60	1.442	0.146	22.1
		_		An	t8 Test Re	cord	•				
				Destes	SAR	D	Conducted	Tune up	011	Scaled	1.1
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg) 1-	Power Drift (dB)	Power	Limit	Scaled	SAR	Liquid
			-	Cycle	g	Driit (ab)	(dBm)	(dBm)	factor	(W/kg)	Temp
				Head	d Test Data	a(1RB)					
Left cheek	20	QPSK 1RB_1	516000/2580	1:1	0.464	-0.01	20.25	21.00	1.189	0.551	22.1
Left tilted	20	QPSK 1RB_1	516000/2580	1:1	0.380	0.00	20.25	21.00	1.189	0.452	22.1
Right cheek	20	QPSK 1RB_1	516000/2580	1:1	0.448	0.07	20.25	21.00	1.189	0.532	22.1
Right tilted	20	QPSK 1RB_1	516000/2580	1:1	0.371	-0.12	20.25	21.00	1.189	0.441	22.1
<u>J</u>				Head	Test Data(
Left cheek	20	QPSK 50RB 28	522000/2610	1:1	0.428	0.08	20.12	21.00	1.225	0.524	22.1
Left tilted	20	QPSK 50RB 28		1:1	0.350	0.01	20.12	21.00	1.225	0.429	22.1
Right cheek	20	QPSK 50RB 28		1:1	0.405	0.17	20.12	21.00	1.225	0.496	22.1
Right tilted	20	QPSK 50RB_28		1:1	0.341	-0.18	20.12	21.00	1.225	0.418	22.1
rtigrit tilted	20	Q1 31 30 ND_20					tery2#(1RB)	21.00	1.225	0.410	22.1
Left cheek	20	QPSK 1RB_1	516000/2580	1:1	0.438	0.07	20.25	21.00	1.189	0.521	22.1
Leit Cheek	20	QFSK IKD_I				arate 15mr		21.00	1.109	0.521	22.1
Frant side	20	ODCK 4DD 52					,	20.00	1 100	0.026	22.4
Front side	20	QPSK 1RB_53		1:1	0.030	-0.11	19.26	20.00	1.186	0.036	22.1
Back side	20	QPSK 1RB_53	522000/2610	1:1	0.041	0.05	19.26	20.00	1.186	0.049	22.1
Format alida	1 00	0001/ 5000 00				rate 15mm		00.00	4.000	0.040	00.4
Front side	20	QPSK 50RB_28		1:1	0.032	-0.19	19.08	20.00	1.236	0.040	22.1
Back side	20	QPSK 50RB_28		1:1	0.064	-0.07	19.08	20.00	1.236	0.079	22.1
	1		rn Test data at							1	1
Back side	20	QPSK 50RB_28		1:1	0.049	0.04	19.08	20.00	1.236	0.061	22.1
	,			•		ate 10mm	,			,	
Front side	20	QPSK 1RB_53	522000/2610	1:1	0.134	0.04	19.26	20.00	1.186	0.159	22.1
Back side	20	QPSK 1RB_53	522000/2610	1:1	0.140	-0.07	19.26	20.00	1.186	0.166	22.1
Left side	20	QPSK 1RB_53	522000/2610	1:1	0.206	-0.06	19.26	20.00	1.186	0.244	22.1
		1		ot Test da	ta(Separa	te 10mm 5	0%RB)			1	
Front side	20	QPSK 50RB_28		1:1	0.139	-0.03	19.08	20.00	1.236	0.172	22.1
Back side	20	QPSK 50RB_28	522000/2610	1:1	0.145	-0.11	19.08	20.00	1.236	0.179	22.1
Left side	20	QPSK 50RB_28	522000/2610	1:1	0.225	-0.01	19.08	20.00	1.236	0.278	22.1
			t Test data at th	ne worst c	ase with B	attery2#(S	eparate 10mn	n 50%RB)			
Left side	20	QPSK 50RB_28	522000/2610	1:1	0.214	0.06	19.08	20.00	1.236	0.264	22.1
				An	t9 Test Re	cord					
					SAR		Conducted	Tune up	Cooled	Scaled	Limerial
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg) 1-	Power Drift (dB)	Dower	Limit	Scaled factor	SAR	Liquid Temp
				-	g	Dilit (GD)	(dBm)	(dBm)	iacioi	(W/kg)	remp
				Head	d Test Data	a(1RB)					
Left cheek	20	QPSK 1RB_1	516000/2580	1:1	0.090	0.18	23.13	24.20	1.279	0.115	22.1
Left tilted	20	QPSK 1RB_1	516000/2580	1:1	0.083	-0.10	23.13	24.20	1.279	0.106	22.1
Right cheek	20	QPSK 1RB_1	516000/2580	1:1	0.245	-0.13	23.13	24.20	1.279	0.313	22.1
Right tilted	20	QPSK 1RB_1	516000/2580	1:1	0.179	0.01	23.13	24.20	1.279	0.229	22.1
<u> </u>					Test Data(1				
Left cheek	20	QPSK 50RB_28	516000/2580	1:1	0.078	-0.05	23.08	24.20	1.294	0.101	22.1
Left tilted		QPSK 50RB_28		1:1	0.075	-0.19	23.08	24.20	1.294	0.097	22.1
		U UU DZU			5.57.5	0.10	_5.00	0	0 .	0.501	



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Right cheek	20	QPSK 50RB_28	516000/2580	1:1	0.231	0.11	23.08	24.20	1.294	0.299	22.1
Right tilted	20	QPSK 50RB_28	516000/2580	1:1	0.158	0.05	23.08	24.20	1.294	0.204	22.1
			Head Test [Data at th	e worst cas	se with Bat	tery2#(1RB)				
Right cheek	20	QPSK 1RB_1	516000/2580	1:1	0.219	-0.11	23.13	24.20	1.279	0.280	22.1
			Body	worn Tes	t data(Sepa	arate 15mr	n 1RB)				
Front side	20	QPSK 1RB_1	522000/2610	1:1	0.029	-0.03	18.12	19.20	1.282	0.037	22.1
Back side	20	QPSK 1RB_1	522000/2610	1:1	0.101	-0.09	18.12	19.20	1.282	0.130	22.1
			Body w	orn Test	data(Separ	ate 15mm	50%RB)				
Front side	20	QPSK 50RB_56	516000/2580	1:1	0.035	0.09	18.07	19.20	1.297	0.045	22.1
Back side	20	QPSK 50RB_56	516000/2580	1:1	0.123	0.02	18.07	19.20	1.297	0.160	22.1
		Body wo	rn Test data at	the worst	case with	Battery2#(Separate 15n	nm 50%RE	3)		
Back side	20	QPSK 50RB_56	516000/2580	1:1	0.107	0.08	18.07	19.20	1.297	0.139	22.1
			Hots	pot Test of	data(Separ	ate 10mm	1RB)				
Front side	20	QPSK 1RB_1	522000/2610	1:1	0.011	-0.10	18.12	19.20	1.282	0.014	22.1
Back side	20	QPSK 1RB_1	522000/2610	1:1	0.256	-0.08	18.12	19.20	1.282	0.328	22.1
Left side	20	QPSK 1RB_1	522000/2610	1:1	0.080	0.19	18.12	19.20	1.282	0.103	22.1
Top side	20	QPSK 1RB_1	522000/2610	1:1	0.049	0.01	18.12	19.20	1.282	0.063	22.1
			Hotspo	ot Test da	ıta(Separat	te 10mm 5	0%RB)				
Front side	20	QPSK 50RB_56	516000/2580	1:1	0.015	0.13	18.07	19.20	1.297	0.019	22.1
Back side	20	QPSK 50RB_56	516000/2580	1:1	0.285	0.07	18.07	19.20	1.297	0.370	22.1
Left side	20	QPSK 50RB_56	516000/2580	1:1	0.077	0.19	18.07	19.20	1.297	0.100	22.1
Top side	20	QPSK 50RB_56	516000/2580	1:1	0.055	0.01	18.07	19.20	1.297	0.071	22.1
		Hotspot	t Test data at th	e worst c	ase with Ba	attery2#(Se	eparate 10mr	n 50%RB)			
Back side	20	QPSK 50RB_56	516000/2580	1:1	0.262	-0.03	18.07	19.20	1.297	0.340	22.1
T-11-07 04		(FO NID . 00 (•				

Table 27: SAR of 5G NR n38 for Head and Body.



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8.3.18 SAR Result of 5G NR n41

	1		ı	Ant1	Test Reco	ora	1				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head ⁻	Test Data(IRB)	(42)	(uziii)		(11,119)	
Left cheek	100	QPSK 1RB 137	518598/2592.99	1:1	0.089	-0.17	20.94	21.80	1.219	0.108	22.1
Left tilted	100		518598/2592.99	1:1	0.043	-0.06	20.94	21.80	1.219	0.052	22.1
Right cheek	100		518598/2592.99	1:1	0.059	-0.15	20.94	21.80	1.219	0.072	22.1
Right tilted	100		518598/2592.99		0.044	0.15	20.94	21.80	1.219	0.054	22.1
<u> </u>					est Data(50						
Left cheek	100	QPSK 135RB 69	523302/2616.51	1:1	0.099	0.06	20.86	21.80	1.242	0.123	22.1
Left tilted	100		523302/2616.51	1:1	0.045	-0.18	20.86	21.80	1.242	0.056	22.1
Right cheek	100	QPSK 135RB 69	523302/2616.51	1:1	0.066	0.12	20.86	21.80	1.242	0.082	22.1
Right tilted	100	QPSK 135RB_69	523302/2616.51	1:1	0.051	0.19	20.86	21.80	1.242	0.063	22.1
<u> </u>			Head Test Data				/2#(50%RB)				
Left cheek	100	QPSK 135RB_69		1:1	0.082	0.03	20.86	21.80	1.242	0.102	22.1
					data(Separ						
Front side	100	QPSK 1RB_137	518598/2592.99		0.142	0.18	20.94	21.80	1.219	0.173	22.1
Back side	100		518598/2592.99	1:1	0.162	0.06	20.94	21.80	1.219	0.197	22.1
			Body worr	Test da							
Front side	100	QPSK 135RB_69		1:1	0.145	-0.04	20.86	21.80	1.242	0.180	22.1
Back side	100	QPSK 135RB 69		1:1	0.209	-0.11	20.86	21.80	1.242	0.260	22.1
		Body worr	Test data at the	worst c	ase with Ba	attery2#(Se	eparate 15mr	n 50%RB)		I	
Back side	100	QPSK 135RB_69		1:1	0.186	0.06	20.86	21.80	1.242	0.231	22.1
				t Test da	ta(Separat						
Front side	100	QPSK 1RB_1	528000/2640	1:1	0.113	0.13	17.05	17.80	1.189	0.134	22.1
Back side	100	QPSK 1RB 1	528000/2640	1:1	0.160	0.15	17.05	17.80	1.189	0.190	22.1
Left side	100	QPSK 1RB_1	528000/2640	1:1	0.048	-0.05	17.05	17.80	1.189	0.057	22.1
Bottom side	100	QPSK 1RB_1	528000/2640	1:1	0.128	-0.13	17.05	17.80	1.189	0.152	22.1
	1				(Separate						
Front side	100	QPSK 135RB_0	528000/2640	1:1	0.105	0.15	16.98	17.80	1.208	0.127	22.1
Back side	100	QPSK 135RB_0	528000/2640	1:1	0.133	0.03	16.98	17.80	1.208	0.161	22.1
Left side	100	QPSK 135RB_0	528000/2640	1:1	0.051	-0.14	16.98	17.80	1.208	0.062	22.1
Bottom side	100	QPSK 135RB_0	528000/2640	1:1	0.125	0.01	16.98	17.80	1.208	0.151	22.1
	1		t Test data at the								
Back side	100	QPSK 1RB_1	528000/2640	1:1	0.132	-0.11	17.05	17.80	1.189	0.157	22.1
240.1 0.40	1.00	<u> </u>	020000,2010		Test Rece	L	11.00	11100		01.01	
					SAR		Conducted	Tune up		Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg) 1-	Power Drift (dB)	Dawar	Limit	Scaled factor	SAR	Liquid Temp
				Cycle	g	Dilit (GB)	(dBm)	(dBm)	Tactor	(W/kg)	remp
					Test Data(1		,	1
Left cheek	100	QPSK 1RB_1	528000/2640	1:1	0.153	-0.09	15.17	16.20	1.268	0.194	22.1
Left tilted	100	QPSK 1RB_1	528000/2640	1:1	0.181	-0.10	15.17	16.20	1.268	0.229	22.1
Right cheek	100	QPSK 1RB_1	528000/2640	1:1	0.209	0.05	15.17	16.20	1.268	0.265	22.1
Right tilted	100	QPSK 1RB_1	528000/2640	1:1	0.276	-0.11	15.17	16.20	1.268	0.350	22.1
					est Data(50		1				1
Left cheek	100	QPSK 135RB_69	528000/2640	1:1	0.185	0.01	14.88	16.20	1.355	0.251	22.1
Left tilted	100	QPSK 135RB_69	528000/2640	1:1	0.201	-0.19	14.88	16.20	1.355	0.272	22.1
Right cheek	100	QPSK 135RB_69	528000/2640	1:1	0.251	-0.10	14.88	16.20	1.355	0.340	22.1
Right tilted	100	QPSK 135RB_69	528000/2640	1:1	0.313	0.04	14.88	16.20	1.355	0.424	22.1
			Head Test Data							_	
Right tilted	100	QPSK 135RB_69	528000/2640	1:1	0.296	0.17	14.88	16.20	1.355	0.401	22.1
			Body wo	rn Test o	data(Separ	ate 15mm	1RB)				
Front side	100	QPSK 1RB_1	528000/2640	1:1	0.052	0.11	20.14	21.20	1.276	0.066	22.1
Back side	100	QPSK 1RB_1	528000/2640	1:1	0.090	0.09	20.14	21.20	1.276	0.115	22.1
			Body worr	Test da	ta(Separat	e 15mm 5	0%RB)				
						1		04.00	4.004	0.075	22.4
Front side	100	QPSK 135RB_69	528000/2640	1:1	0.055	-0.05	19.86	21.20	1.361	0.075	22.1



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		Pody worr	Toot data at the	wordt of	acc with D	otton/2#/C/	anarata 15mr	~ F00/ DD\			
Daali aida	400	Body worr							4.004	0.4.40	00.4
Back side	100	QPSK 135RB_69	528000/2640	1:1	0.104	-0.02	19.86	21.20	1.361	0.142	22.1
		1				e 10mm 1				•	1
Front side	100	QPSK 1RB_1	528000/2640	1:1	0.034	-0.03	15.17	16.20	1.268	0.043	22.1
Back side	100	QPSK 1RB_1	528000/2640	1:1	0.068	-0.08	15.17	16.20	1.268	0.086	22.1
Left side	100	QPSK 1RB_1	528000/2640	1:1	0.002	0.02	15.17	16.20	1.268	0.003	22.1
Top side	100	QPSK 1RB_1	528000/2640	1:1	0.071	-0.03	15.17	16.20	1.268	0.090	22.1
	1	_		Test data		10mm 509	%RB)	I			I
Front side	100	QPSK 135RB 69	528000/2640	1:1	0.031	0.19	14.88	16.20	1.355	0.042	22.1
Back side	100	QPSK 135RB 69	528000/2640	1:1	0.062	0.07	14.88	16.20	1.355	0.084	22.1
Left side		_			0.002						
	100		528000/2640	1:1		-0.03	14.88	16.20	1.355	0.004	22.1
Top side	100		528000/2640	1:1	0.082	0.10	14.88	16.20	1.355	0.111	22.1
			Test data at the v					,			1
Top side	100	QPSK 135RB_69	528000/2640	1:1	0.061	0.07	14.88	16.20	1.355	0.083	22.1
				Ant8	Test Rec	ord					
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
				Cycle	g	Dilit (GB)	(dBm)	(dBm)	iacioi	(W/kg)	remp
				Head T	est Data(1RB)					
Left cheek	100	QPSK 1RB_1	528000/2640	1:1	0.188	0.19	20.32	21.00	1.169	0.220	22.1
Left tilted	100	QPSK 1RB 1	528000/2640	1:1	0.132	-0.12	20.32	21.00	1.169	0.154	22.1
Right cheek	100	QPSK 1RB_1	528000/2640	1:1	0.440	-0.01	20.32	21.00	1.169	0.515	22.1
Right tilted	100	QPSK 1RB_1	528000/2640	1:1	0.325	-0.08	20.32	21.00	1.169	0.380	22.1
Right tilled	100	QF3K IND_I	320000/2040				20.32	21.00	1.109	0.300	22.1
	1	0001/ 10000 00			st Data(50						
Left cheek	100			1:1	0.183	0.13	20.03	21.00	1.250	0.229	22.1
Left tilted	100	QPSK 135RB_69		1:1	0.134	-0.01	20.03	21.00	1.250	0.168	22.1
Right cheek	100	QPSK 135RB_69	523302/2616.51	1:1	0.464	0.01	20.03	21.00	1.250	0.580	22.1
Right tilted	100	QPSK 135RB_69	523302/2616.51	1:1	0.391	0.07	20.03	21.00	1.250	0.489	22.1
			Head Test Data	at the wo	orst case v	vith Battery	/2#(50%RB)				
Right cheek	100	QPSK 135RB_69	523302/2616 51	1:1	0.425	0.44	00.00	04.00			
			020002/2010.01	1.1	0.425	0.14	20.03	21.00	1.250	0.531	22.1
								21.00	1.250	0.531	22.1
Front side	100		Body wo	rn Test d	ata(Separ	ate 15mm	1RB)				I.
Front side	100	QPSK 1RB_1	Body wo 528000/2640	rn Test d 1:1	ata(Separ 0.002	ate 15mm 0.18	1RB) 19.29	20.00	1.178	0.002	22.1
Front side Back side	100		Body wo 528000/2640 528000/2640	1:1 1:1	ata(Separ 0.002 0.058	0.18 0.11	1RB) 19.29 19.29				I.
Back side	100	QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr	1:1 1:1 Test da	ata(Separ 0.002 0.058 ta(Separat	0.18 0.11 0.11 e 15mm 5	1RB) 19.29 19.29 0%RB)	20.00	1.178 1.178	0.002 0.068	22.1 22.1
Back side Front side	100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640	1:1 1:1 1:1 Test da	ata(Separ 0.002 0.058 ta(Separat 0.009	0.18 0.11 0.11 e 15mm 5 0.02	1RB) 19.29 19.29 0%RB) 19.03	20.00 20.00 20.00	1.178 1.178 1.250	0.002 0.068 0.011	22.1 22.1 22.1
Back side	100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640	1:1 1:1 1:1 Test da 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034	ate 15mm 0.18 0.11 te 15mm 5 0.02 0.11	1RB) 19.29 19.29 0%RB) 19.03	20.00 20.00 20.00 20.00	1.178 1.178	0.002 0.068	22.1 22.1
Back side Front side Back side	100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 orn Test data at t	1:1 1:1 1:1 1 Test da 1:1 1:1 he worst	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with	ate 15mm 0.18 0.11 0.11 0.02 0.11 Battery2#(1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r	20.00 20.00 20.00 20.00 20.00 nm 1RB)	1.178 1.178 1.250 1.250	0.002 0.068 0.011 0.043	22.1 22.1 22.1 22.1
Back side Front side	100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 he worst 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047	ate 15mm	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29	20.00 20.00 20.00 20.00	1.178 1.178 1.250	0.002 0.068 0.011	22.1 22.1 22.1
Back side Front side Back side	100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 he worst 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047	ate 15mm 0.18 0.11 0.11 0.02 0.11 Battery2#(1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29	20.00 20.00 20.00 20.00 20.00 nm 1RB)	1.178 1.178 1.250 1.250	0.002 0.068 0.011 0.043	22.1 22.1 22.1 22.1
Back side Front side Back side	100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 he worst 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047	ate 15mm	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29	20.00 20.00 20.00 20.00 20.00 nm 1RB)	1.178 1.178 1.250 1.250	0.002 0.068 0.011 0.043	22.1 22.1 22.1 22.1
Front side Back side Back side	100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640 Hotspo	1:1 1:1 1:1 Test da 1:1 1:1 he worst 1:1 t Test da	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29	20.00 20.00 20.00 20.00 nm 1RB) 20.00	1.178 1.178 1.250 1.250 1.178	0.002 0.068 0.011 0.043 0.055	22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side	100 100 100 100 100 100	QPSK 1RB_1 QPSK 1RB_138 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640 Hotspo 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 t Test dat 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178	0.002 0.068 0.011 0.043 0.055 0.091 0.087	22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side	100 100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 orn Test data at ti 528000/2640 Hotspo 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 t Test dat 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 19.29	20.00 20.00 20.00 20.00 nm 1RB) 20.00	1.178 1.178 1.250 1.250 1.178	0.002 0.068 0.011 0.043 0.055	22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Left side	100 100 100 100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640 Hotspo 528000/2640 528000/2640 528000/2640 Hotspot	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 19.29 6RB)	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Left side Front side	100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at tl 528000/2640 Hotspo 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 4RB) 19.03	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178 1.178	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Left side Front side Back side	100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 18B_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at th 528000/2640 Hotspo 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 4RB) 19.03 19.03	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178 1.178 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Left side Front side	100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at th 528000/2640 Hotspo 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 4RB) 19.03 19.03 19.03 19.03	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178 1.178	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Back side Front side Back side Front side Back side Left side Front side Back side Left side	100 100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_1 QPSK 1RB_1 APSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at th 528000/2640 Hotspot 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 4RB) 19.03 19.03 19.03 avarate 10mm	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178 1.178 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Left side Front side Back side	100 100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 rn Test data at ti 528000/2640 Hotspot 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 4RB) 19.03 19.03 19.03 19.03	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178 1.178 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Left side Front side Back side Left side	100 100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_1 QPSK 1RB_1 APSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at th 528000/2640 Hotspot 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 6RB) 19.03 19.03 19.03 avarate 10mm 19.03	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.178 1.250 1.250 1.178 1.178 1.178 1.178 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Back side Front side Back side Front side Back side Left side Front side Back side Left side	100	QPSK 1RB_1 QPSK 18B_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 18B_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Forn Test data at ti 528000/2640 Hotspo 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 Fest data at the v 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separate 0.002 0.058 ta(Separate 0.009 0.034 case with 0.047 ta(Separate 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recc SAR	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 4RB) 19.03 19.03 19.03 avarate 10mm	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Back side Front side Back side Front side Back side Left side Front side Back side Left side	100 100 100 100 100 100 100 100	QPSK 1RB_1 QPSK 18B_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 18B_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at th 528000/2640 Hotspot 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 Power	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 Parate 10mm 19.03 Conducted Power	20.00 20.00 20.00 20.00 nm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 Scaled	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Front side Back side Left side Front side Left side Left side Left side Left side	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Forn Test data at ti 528000/2640 Hotspo 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 Fest data at the v 528000/2640	nn Test d 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	ata(Separate 0.002 0.058 ta(Separate 0.009 0.034 case with 0.047 ta(Separate 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recurs SAR (W/kg) 1-	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 11 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 Power Drift (dB)	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 RB) 19.29 19.29 6/RB) 19.03 19.03 19.03 parate 10mm 19.03	20.00 20.00 20.00 20.00 nm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Front side Back side Front side Back side Left side Front side Left side Left side Left side Left side	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Forn Test data at ti 528000/2640 Hotspo 528000/2640 528000/2640 Hotspot 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 Fest data at the v 528000/2640	nn Test d 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	ata(Separate 0.002 0.058 ta(Separate 0.009 0.034 case with 0.047 ta(Separate 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Rece SAR (W/kg) 1-	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 11 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 Power Drift (dB)	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 Parate 10mm 19.03 Conducted Power	20.00 20.00 20.00 20.00 nm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	1.178 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 Scaled	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
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Back side Front side Back side Back side Front side Back side Left side Front side Back side Left side Test position Left cheek Left tilted	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 Test mode QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Forn Test data at ti 528000/2640 Forn Season Sea	m Test d 1:1 1:1 Test da 1:1 1:1 t Test dat 1:1 1:1 Test data 1:1 1:1	ata(Separal 0.002 0.058 ta(Separal 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recc SAR (W/kg) 1-g est Data(0.071 0.080	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 power Drift (dB) 1RB) 0.15 -0.02	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 Conducted Power (dBm) 23.18 23.18	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 50%RB) 20.00 Tune up Limit (dBm)	1.178 1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 1.250 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR (W/kg) 0.086 0.097	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Back side Front side Back side Back side Front side Back side Left side Front side Back side Left side Test position Left cheek Left tilted Right cheek	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 Test mode QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 Body wor 528000/2640 Body worr 528000/2640 528000/2640 For Test data at ti 528000/2640 Body worr 528000/2640 Hotspo 528000/2640 Body worr 528000/2640 For Test data at ti 528000/2640 For Test data at ti 528000/2640 For Test data at the vi 528000/2640 For Test ch./Freq. 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	m Test d 1:1 1:1 1:1 1:1 1:1 he worst 1:1 1:1 1:1 1:1 Fest data 1:1 1:1 1:1 Duty Cycle Head T 1:1 1:1 1:1	ata(Separal 0.002 0.058 ta(Separal 0.009 0.034 case with 0.047 ta(Separal 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recu SAR (W/kg) 1-g est Data(1.0080 0.216	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 Power Drift (dB) 1RB) 0.15 -0.02 0.07	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 Conducted Power (dBm) 23.18 23.18 23.18	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 50%RB) 20.00 Tune up Limit (dBm) 24.00 24.00 24.00	1.178 1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR (W/kg) 0.086 0.097 0.261	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Back side Front side Back side Back side Front side Back side Left side Front side Back side Left side Test position Left cheek Left tilted	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 Test mode QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at ti 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 Test ch./Freq. 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	m Test d 1:1 1:1 1:1 1:1 1:1 he worst 1:1 1:1 1:1 1:1 Fest data 1:1 1:1 1:1 Duty Cycle Head T 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recc SAR (W/kg) 1- g est Data(1000) 0.080 0.216 0.071	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 11 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 Power Drift (dB) 1RB) 0.15 -0.02 0.07 -0.19	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 Conducted Power (dBm) 23.18 23.18	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 50%RB) 20.00 Tune up Limit (dBm)	1.178 1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 1.250 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR (W/kg) 0.086 0.097	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Back side Front side Back side Back side Front side Back side Left side Front side Back side Left side Test position Left cheek Left tilted Right cheek Right tilted	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 Test mode QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at ti 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 Test data at the v 528000/2640 Test ch./Freq.	m Test d 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	ata(Separal 0.002 0.058 ta(Separal 0.009 0.034 case with 0.047 ta(Separal 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recu SAR (W/kg) 1-g est Data(1.0080 0.216 0.156 st Data(50	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(: 0.08 e 10mm 1 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 power Drift (dB) 1RB) 0.15 -0.02 0.07 -0.19 9%RB)	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 19.03 Conducted Power (dBm) 23.18 23.18 23.18 23.18	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 50%RB) 20.00 Tune up Limit (dBm) 24.00 24.00 24.00 24.00	1.178 1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR (W/kg) 0.086 0.097 0.261 0.188	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1
Front side Back side Back side Back side Front side Back side Left side Front side Back side Left side Test position Left cheek Left tilted Right cheek	100	QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 Body wo QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 135RB_138 QPSK 135RB_138 QPSK 135RB_138 Test mode QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1 QPSK 1RB_1	Body wo 528000/2640 528000/2640 Body worr 528000/2640 528000/2640 Test data at ti 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 Test ch./Freq. 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640 528000/2640	m Test d 1:1 1:1 1:1 1:1 1:1 he worst 1:1 1:1 1:1 1:1 Fest data 1:1 1:1 1:1 Duty Cycle Head T 1:1 1:1 1:1 1:1 1:1	ata(Separ 0.002 0.058 ta(Separat 0.009 0.034 case with 0.047 ta(Separat 0.077 0.074 0.200 (Separate 0.079 0.076 0.216 e with Bat 0.197 Test Recc SAR (W/kg) 1- g est Data(1000) 0.080 0.216 0.071	ate 15mm 0.18 0.11 e 15mm 5 0.02 0.11 Battery2#(* 0.08 e 10mm 11 0.12 -0.15 0.04 10mm 509 -0.14 -0.13 -0.13 tery2#(Sep 0.01 Power Drift (dB) 1RB) 0.15 -0.02 0.07 -0.19	1RB) 19.29 19.29 0%RB) 19.03 19.03 Separate 15r 19.29 19.29 19.29 4RB) 19.03 19.03 19.03 19.03 19.03 Conducted Power (dBm) 23.18 23.18 23.18	20.00 20.00 20.00 20.00 mm 1RB) 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 50%RB) 20.00 Tune up Limit (dBm) 24.00 24.00 24.00	1.178 1.178 1.250 1.250 1.250 1.178 1.178 1.178 1.178 1.178 1.250 1.250 1.250 1.250 1.250 1.250 1.250 1.250	0.002 0.068 0.011 0.043 0.055 0.091 0.087 0.236 0.099 0.095 0.270 0.246 Scaled SAR (W/kg) 0.086 0.097 0.261	22.1 22.1 22.1 22.1 22.1 22.1 22.1 22.1



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Right cheek	100	QPSK 135RB_69	528000/2640	1:1	0.199	-0.04	23.10	24.00	1.230	0.245	22.1
Right tilted	100	QPSK 135RB_69	528000/2640	1:1	0.164	-0.14	23.10	24.00	1.230	0.202	22.1
			Head Test Dat	a at the v	vorst case	with Batte	ry2#(1RB)				
Right cheek	100	QPSK 1RB_1	528000/2640	1:1	0.201	-0.08	23.18	24.00	1.208	0.243	22.1
			Body wo	rn Test d	ata(Separ	ate 15mm	1RB)				
Front side	100	QPSK 1RB_137	528000/2640	1:1	0.041	0.05	19.05	20.00	1.245	0.051	22.1
Back side	100	QPSK 1RB_137	528000/2640	1:1	0.116	0.08	19.05	20.00	1.245	0.144	22.1
			Body worr	Test da	ta(Separat	e 15mm 50	0%RB)				
Front side	100	QPSK 135RB_69	528000/2640	1:1	0.045	0.07	19.07	20.00	1.239	0.056	22.1
Back side	100	QPSK 135RB_69	528000/2640	1:1	0.180	0.16	19.07	20.00	1.239	0.223	22.1
		Body worr	Test data at the	worst ca	ase with Ba	attery2#(Se	eparate 15mi	n 50%RB))		
Back side	100	QPSK 135RB_69	528000/2640	1:1	0.162	-0.09	19.07	20.00	1.239	0.201	22.1
			Hotspo	t Test dat	ta(Separat	e 10mm 1f	RB)				
Front side	100	QPSK 1RB_137	528000/2640	1:1	0.002	-0.02	19.05	20.00	1.245	0.002	22.1
Back side	100	QPSK 1RB_137	528000/2640	1:1	0.267	0.15	19.05	20.00	1.245	0.332	22.1
Left side	100	QPSK 1RB_137	528000/2640	1:1	0.099	-0.04	19.05	20.00	1.245	0.123	22.1
Top side	100	QPSK 1RB_137	528000/2640	1:1	0.064	0.05	19.05	20.00	1.245	0.080	22.1
			Hotspot ⁻	Γest data	(Separate	10mm 50%	6RB)				
Front side	100	QPSK 135RB_69	528000/2640	1:1	0.003	0.03	19.07	20.00	1.239	0.004	22.1
Back side	100	QPSK 135RB_69	528000/2640	1:1	0.353	0.09	19.07	20.00	1.239	0.437	22.1
Left side	100	QPSK 135RB_69	528000/2640	1:1	0.110	-0.07	19.07	20.00	1.239	0.136	22.1
Top side	100	QPSK 135RB_69	528000/2640	1:1	0.061	0.09	19.07	20.00	1.239	0.076	22.1
_		Hotspot ⁻	Test data at the	vorst cas	e with Batt	ery2#(Sep	arate 10mm	50%RB)			
Back side	100	QPSK 135RB_69	528000/2640	1:1	0.314	-0.14	19.07	20.00	1.239	0.389	22.1
T-11-00 0		(FO NID . 44 (•				

Table 28: SAR of 5G NR n41 for Head and Body.



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8.3.19 SAR Result of 5G NR n77

		1	Ai	nt2 Test			1			•	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
			Hea	d Test D	ata(1RB)						
Left cheek	100	QPSK 1RB_137	652400/3786	1:1	0.132	0.08	18.74	18.80	1.014	0.134	22.1
Left tilted	100	QPSK 1RB_137	652400/3786	1:1	0.071	-0.04	18.74	18.80	1.014	0.072	22.1
Right cheek	100	QPSK 1RB_137	652400/3786	1:1	0.533	-0.19	18.74	18.80	1.014	0.540	22.1
Right tilted	100	QPSK 1RB_137	652400/3786	1:1	0.191	-0.01	18.74	18.80	1.014	0.194	22.1
Right cheek	100	QPSK 1RB_271	650000/3750	1:1	0.525	-0.12	18.49	18.80	1.074	0.564	22.1
Right cheek	100	QPSK 1RB_137	654800/3822	1:1	0.532	-0.06	18.53	18.80	1.064	0.566	22.1
Right cheek	100	QPSK 1RB_137	657200/3858	1:1	0.566	-0.18	18.73	18.80	1.016	0.575	22.1
Right cheek	100	QPSK 1RB_137	659600/3894	1:1	0.582	-0.07	18.19	18.80	1.151	0.670	22.1
Right cheek	100	QPSK 1RB_1	662000/3930	1:1	0.585	-0.03	18.43	18.80	1.089	0.637	22.1
					a(50%RE					,	1
Left cheek	100	QPSK 135RB_138		1:1	0.125	0.01	18.73	18.80	1.016	0.127	22.1
Left tilted	100	QPSK 135RB_138		1:1	0.064	0.00	18.73	18.80	1.016	0.065	22.1
Right cheek	100	QPSK 135RB_138		1:1	0.521	0.18	18.73	18.80	1.016	0.529	22.1
Right tilted	100	QPSK 135RB_138		1:1	0.184	-0.10	18.73	18.80	1.016	0.187	22.1
Right cheek	100	QPSK 135RB_138		1:1	0.516	0.15	18.44	18.80	1.086	0.561	22.1
Right cheek	100	QPSK 135RB_69	654800/3822	1:1	0.525	0.01	18.56	18.80	1.057	0.555	22.1
Right cheek	100	QPSK 135RB_0	657200/3858	1:1	0.530	-0.03	18.69	18.80	1.026	0.544	22.1
Right cheek	100	QPSK 135RB_0	659600/3894	1:1	0.578	-0.07	18.28	18.80	1.127	0.652	22.1
Right cheek	100	QPSK 135RB_0	662000/3930	1:1	0.583	-0.11	18.29	18.80	1.125	0.656	22.1
	1		Test Data at the								
Right cheek	100	QPSK 1RB_137	659600/3894	1:1	0.562	0.03	18.19	18.80	1.151	0.647	22.1
		T ===	Body worn Tes	,			<i>′</i>			l	
Front side	100	QPSK 1RB_271	650000/3750	1:1	0.069	-0.04	20.67	20.80	1.030	0.071	22.1
Back side	100	QPSK 1RB_271	650000/3750	1:1	0.076	0.02	20.67	20.80	1.030	0.079	22.1
Francisco de la constanta de l	400		Body worn Test					00.00	4.050	0.000	00.4
Front side	100	QPSK 135RB_69		1:1	0.066	-0.02	20.58	20.80	1.052	0.069	22.1
Back side	100	QPSK 135RB_69	650000/3750	1:1	0.070	0.09	20.58	20.80	1.052	0.074	22.1
Da ali aida	400	Body worn Test							4.000	0.005	00.4
Back side	100	QPSK 1RB_271	650000/3750	1:1	0.063	-0.08	20.67	20.80	1.030	0.065	22.1
Fuent elele	400	ODCK ADD 407	Hotspot Test				40.74	40.00	4.044	0.055	00.4
Front side	100	QPSK 1RB_137	652400/3786	1:1	0.054	0.00	18.74	18.80	1.014	0.055	22.1
Back side	100	QPSK 1RB_137	652400/3786	1:1 1:1	0.067	-0.06	18.74 18.74	18.80	1.014	0.068	22.1
Left side	100	QPSK 1RB_137	652400/3786	1:1	0.060	0.00		18.80	1.014	0.061	22.1
Top side	100	QPSK 1RB_137	652400/3786				18.74	18.80	1.014	0.049	22.1
Front side	100	ODCK 425DD 420	Hotspot Test d		0.048			10.00	1.016	0.049	22.1
Front side Back side	100	QPSK 135RB_138 QPSK 135RB_138		1:1 1:1	0.048	0.14	18.73 18.73	18.80 18.80	1.016 1.016	0.049	22.1
Left side	100	QPSK 135RB_138		1:1	0.054			18.80		0.065	22.1
Top side	100	QPSK 135RB_138		1:1	0.036	-0.19 -0.15	18.73 18.73	18.80	1.016 1.016	0.037	22.1
rop side	100	_	lata at the wors			•			1.016	0.045	22.1
Back side	100	QPSK 1RB_137	652400/3786	1:1	0.053	2#(Separ 0.14	18.74	18.80	1.014	0.054	22.1
Dack Side	100	QF3K IKB_131		nt3 Test		0.14	10.74	10.00	1.014	0.034	22.1
			AI		SAR	Power	Conducted	Tune un		Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg)	Drift	Power	Limit	Scaled	SAR	Liqui
30. p. 0				Cycle	1-g	(dB)	(dBm)	(dBm)	factor	(W/kg)	Temp
			Hea	d Test D							
Left cheek	100	QPSK 1RB_137	654800/3822	1:1	0.216	0.02	15.34	15.50	1.038	0.224	22.1
Left tilted	100	QPSK 1RB_137	654800/3822	1:1	0.319	0.03	15.34	15.50	1.038	0.331	22.1
Right cheek	100	QPSK 1RB_137	654800/3822	1:1	0.321	0.02	15.34	15.50	1.038	0.333	22.1
Right tilted	100	QPSK 1RB_137	654800/3822	1:1	0.489	-0.10	15.34	15.50	1.038	0.507	22.1
Right tilted	100	QPSK 1RB_137	650000/3750	1:1	0.520	-0.04	15.25	15.50	1.059	0.551	22.1
Right tilted	100	QPSK 1RB_1	652400/3786	1:1	0.488	0.14	15.33	15.50	1.040	0.507	22.1
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Right tilted

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QPSK 1RB_1 657200/3858

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Right tilted	100	QPSK 1RB_1	659600/3894	1:1	0.476	-0.06	14.98	15.50	1.127	0.537	22.1
Right tilted	100	QPSK 1RB_1	662000/3930	1:1	0.463	0.00	15.07	15.50	1.104	0.511	22.1
				Test Dat	a(50%RB	5)					
Left cheek	100	QPSK 135RB_0	652400/3786	1:1	0.210	0.11	15.36	15.50	1.033	0.217	22.1
Left tilted	100	QPSK 135RB_0	652400/3786	1:1	0.296	0.00	15.36	15.50	1.033	0.306	22.1
Right cheek	100	QPSK 135RB_0	652400/3786	1:1	0.352	-0.13	15.36	15.50	1.033	0.364	22.1
Right tilted	100	QPSK 135RB_0	652400/3786	1:1	0.467	-0.11	15.36	15.50	1.033	0.482	22.1
Right tilted	100	QPSK 135RB_69	650000/3750	1:1	0.576	0.02	15.07	15.50	1.104	0.636	22.1
Right tilted	100	QPSK 135RB_0	654800/3822	1:1	0.495	0.06	15.28	15.50	1.052	0.521	22.1
Right tilted	100	QPSK 135RB_0	657200/3858	1:1	0.465	-0.14	14.94	15.50	1.138	0.529	22.1
Right tilted	100	QPSK 135RB_0	659600/3894	1:1	0.445	0.18	14.70	15.50	1.202	0.535	22.1
Right tilted	100	QPSK 135RB_0	662000/3930	1:1	0.403	-0.06	14.88	15.50	1.153	0.465	22.1
	•		Test Data at the					1		,	1
Right tilted	100	QPSK 135RB_69	650000/3750	1:1	0.553	-0.06	15.07	15.50	1.104	0.611	22.1
	-		Body worn Tes	st data(So	eparate 1	5mm 1RB)				
Front side	100	QPSK 1RB_1	652400/3786	1:1	0.327	0.08	24.12	24.50	1.091	0.357	22.1
Back side	100	QPSK 1RB_1	652400/3786	1:1	0.595	-0.05	24.12	24.50	1.091	0.649	22.1
Back side	100	QPSK 1RB_137	650000/3750	1:1	0.641	0.06	24.11	24.50	1.094	0.701	22.1
Back side	100	QPSK 1RB_1	654800/3822	1:1	0.628	-0.06	24.05	24.50	1.109	0.697	22.1
Back side	100	QPSK 1RB_1	657200/3858	1:1	0.639	0.08	23.91	24.50	1.146	0.732	22.1
Back side	100	QPSK 1RB_1	659600/3894	1:1	0.573	0.14	23.90	24.50	1.148	0.658	22.1
Back side	100	QPSK 1RB_1	662000/3930	1:1	0.517	-0.11	23.67	24.50	1.211	0.626	22.1
			Body worn Test	data(Sep	parate 15r	nm 50%R					
Front side	100	QPSK 135RB_69		1:1	0.367	-0.06	24.15	24.50	1.084	0.398	22.1
Back side	100	QPSK 135RB_69	650000/3750	1:1	0.603	-0.01	24.15	24.50	1.084	0.654	22.1
Back side	100	QPSK 135RB_69	652400/3786	1:1	0.620	0.16	24.13	24.50	1.089	0.675	22.1
Back side	100	QPSK 135RB_69	654800/3822	1:1	0.593	0.04	24.02	24.50	1.117	0.662	22.1
Back side	100	QPSK 135RB_69	657200/3858	1:1	0.555	0.12	23.71	24.50	1.199	0.666	22.1
Back side	100	QPSK 135RB_69	659600/3894	1:1	0.479	0.12	23.62	24.50	1.225	0.587	22.1
Back side	100	QPSK 135RB_69	662000/3930	1:1	0.428	0.03	23.24	24.50	1.337	0.572	22.1
		Body worn Test								ı	
Back side	100	QPSK 1RB_1	657200/3858	1:1	0.614	0.07	23.91	24.50	1.146	0.703	22.1
		1	Hotspot Test				T			ı	
Front side	100	QPSK 1RB_137	654800/3822	1:1	0.080	0.11	15.34	15.50	1.038	0.083	22.1
Back side	100	QPSK 1RB_137	654800/3822	1:1	0.126	-0.19	15.34	15.50	1.038	0.131	22.1
Left side	100	QPSK 1RB_137	654800/3822	1:1	0.049	0.00	15.34	15.50	1.038	0.051	22.1
Top side	100	QPSK 1RB_137	654800/3822	1:1	0.186	-0.09	15.34	15.50	1.038	0.193	22.1
		T ==== -	Hotspot Test d								
Front side	100	QPSK 135RB_0	652400/3786	1:1	0.077	-0.04	15.36	15.50	1.033	0.080	22.1
Back side	100	QPSK 135RB_0	652400/3786	1:1	0.134	-0.19	15.36	15.50	1.033	0.138	22.1
Left side	100	QPSK 135RB_0	652400/3786	1:1	0.047	-0.12	15.36	15.50	1.033	0.049	22.1
Top side	100	QPSK 135RB_0	652400/3786	1:1	0.198	-0.19	15.36	15.50	1.033	0.204	22.1
Ton aide	100	Hotspot Test da							4.000	0.470	00.4
Top side	100	QPSK 135RB_0	652400/3786	1:1	0.172	-0.04	15.36	15.50	1.033	0.178	22.1
Test position	BW.	Test mode	Test Ch./Freq.	Duty	SAR (W/kg)	Power Drift	Conducted Power	Limit	Scaled	Scaled SAR	Liquid
rest position	500.	T CSt IIIOGC	rest onth req.	Cycle	10-q	(dB)	(dBm)	(dBm)	factor	(W/kg)	Temp
		Product spe	ecific 10g SAR 7	rest data						(***,****9)	
Top side	100	QPSK 1RB_137	654800/3822	1:1	1.020	-0.04	16.27	16.50	1.054	1.075	22.3
Top side	100	QPSK 1RB_137	650000/3750	1:1	0.875	0.16	16.23	16.50	1.064	0.931	22.3
Top side	100	QPSK 1RB_137	652400/3786	1:1	0.921	-0.04	16.24	16.50	1.062	0.978	22.3
Top side	100	QPSK 1RB_1	657200/3858	1:1	0.917	-0.02	16.02	16.50	1.117	1.024	22.3
Top side	100	QPSK 1RB_1	659600/3894	1:1	0.906	-0.04	15.88	16.50	1.153	1.045	22.3
Top side	100	QPSK 1RB_1	662000/3930	1:1	0.887	0.00	15.98	16.50	1.127	1.000	22.3
,	•		ific 10g SAR Te								
Top side	100	QPSK 135RB_0	654800/3822	1:1	0.948	-0.07	16.21	16.50	1.069	1.013	22.3
Top side	100	QPSK 135RB_69	650000/3750	1:1	0.895	-0.14	15.99	16.50	1.125	1.007	22.3
Top side	100	QPSK 135RB_69		1:1	1.090	0.02	16.12	16.50	1.091	1.190	22.3
Top side	100	QPSK 135RB_0	657200/3858	1:1	0.913	-0.03	15.86	16.50	1.159	1.058	22.3
Top side	100	QPSK 135RB_0	659600/3894	1:1	0.962	0.00	15.58	16.50	1.236	1.189	22.3



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I ====================================	l 400	0001/ 40500 0	000000/0000	l a.a	1 0 050		45.70 l	40.50	4 470		l 00.0
Top side	100	QPSK 135RB_0		1:1	0.859	-0.14	15.79	16.50	1.178	1.012	22.3
Ton side Cours	400		cific 10g SAR 7						1.001	0.007	20.0
Top side 5mm	100	QPSK 1RB_1	652400/3786	1:1	2.050	0.03	24.12	24.50	1.091	2.237	22.3
Top side 5mm	100	QPSK 1RB_137	650000/3750	1:1	1.890	-0.16	24.11	24.50	1.094	2.068	22.1
Top side 5mm	100	QPSK 1RB_1	654800/3822	1:1	2.310	0.09	24.05	24.50	1.109	2.562	22.1
Top side 5mm	100	QPSK 1RB_1	657200/3858	1:1	2.280	-0.09	23.85	24.50	1.161	2.648	22.1
Top side 5mm	100	QPSK 1RB_1	659600/3894	1:1	2.320	-0.10	23.90	24.50 24.50	1.148	2.664	22.1
Top side 5mm-repeat		QPSK 1RB_1	659600/3894	1:1 1:1	2.210	0.01	23.90	24.50	1.148	2.537	22.1
Top side 5mm	100	QPSK 1RB_1	662000/3930 fic 10g SAR Te		2.170	0.08	23.67		1.211	2.627	22.1
Top side 5mm	100	QPSK 135RB_69	650000/3750	1:1	1.910	-0.10	24.15	24.50	1.084	2.070	22.3
Top side 5mm	100	QPSK 135RB_69	652400/3786	1:1	2.300	0.01	24.13	24.50	1.089	2.505	22.3
Top side 5mm	100	QPSK 135RB_69	654800/3822	1:1	2.290	0.15	24.02	24.50	1.117	2.558	22.1
Top side 5mm	100	QPSK 135RB_69	657200/3858	1:1	2.210	0.13	23.71	24.50	1.199	2.651	22.1
Top side 5mm	100	QPSK 135RB_69	659600/3894	1:1	2.160	-0.08	23.62	24.50	1.225	2.645	22.1
Top side 5mm	100	QPSK 135RB_69	662000/3930	1:1	1.940	-0.14	23.24	24.50	1.337	2.593	22.1
Top side sittin	100		ic 10g SAR Te						1.007	2.000	
Top side 5mm	100	QPSK 270RB 0	652400/3786	1:1	1.540	0.13	23.13	23.50	1.089	1.677	22.1
		specific 10g SAR Te									
Top side 5mm	100	QPSK 1RB_1	659600/3894	1:1	2.240	0.11	23.90	24.50	1.148	2.572	22.1
				nt5 Test I							
					SAR	Power	Conducted	Tune up	011	Scaled	1.1
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg)	Drift	Power	Limit	Scaled factor	SAR	Liquid Temp
					1-g	(dB)	(dBm)	(dBm)	lactor	(W/kg)	remp
	1	1		d Test D			1	1			
Left cheek	100	QPSK 1RB_137	650000/3750	1:1	0.764	-0.17	18.65	19.10	1.109	0.847	22.1
Left tilted	100	QPSK 1RB_137	650000/3750	1:1	0.266	0.02	18.65	19.10	1.109	0.295	22.1
Right cheek	100	QPSK 1RB_137	650000/3750	1:1	0.208	0.19	18.65	19.10	1.109	0.231	22.1
Right tilted	100	QPSK 1RB_137	650000/3750	1:1	0.074	0.17	18.65	19.10	1.109	0.082	22.1
Left cheek	100	QPSK 1RB_137	652400/3786	1:1	0.628	0.02	18.36	19.10	1.186	0.745	22.1
Left cheek	100	QPSK 1RB_137	654800/3822	1:1	0.595	-0.08	18.59	19.10	1.125	0.669	22.1
Left cheek	100	QPSK 1RB_137	657200/3858	1:1	0.603	-0.13	18.15	19.10	1.245	0.750	22.1
Left cheek	100	QPSK 1RB_1	659600/3894	1:1	0.597 0.599	-0.11	18.36	19.10	1.186	0.708	22.1
Left cheek	100	QPSK 1RB_1	662000/3930	1:1	a(50%RE	0.02	17.78	19.10	1.355	0.812	22.1
Left cheek	100	QPSK 135RB 138		1:1	0.585	0.02	18.59	19.10	1.125	0.658	22.1
Left tilted		QPSK 135RB_138		1:1	0.383	-0.09	18.59	19.10	1.125	0.056	22.1
Right cheek	100	QPSK 135RB_138		1:1	0.192	0.13	18.59	19.10	1.125	0.210	22.1
Right tilted	100	QPSK 135RB_138		1:1	0.102	-0.04	18.59	19.10	1.125	0.162	22.1
Left cheek	100	QPSK 135RB_69	652400/3786	1:1	0.628	-0.08	18.36	19.10	1.186	0.745	22.1
Left cheek	100	QPSK 135RB 0	654800/3822	1:1	0.603	-0.11	18.54	19.10	1.138	0.686	22.1
Left cheek	100	QPSK 135RB_0	657200/3858	1:1	0.592	0.12	18.17	19.10	1.239	0.733	22.1
Left cheek	100	QPSK 135RB_0		1:1	0.607	0.00	18.15	19.10	1.245	0.755	22.1
Left cheek	100	QPSK 135RB_0	662000/3930	1:1	0.619	0.04	17.57	19.10	1.422	0.880	22.1
		_			a(100%RI						
Left cheek	100	QPSK 270RB_0		1:1	0.642	0.10	18.51	19.10	1.146	0.735	22.1
			Test Data at the	worst ca	se with B	attery2#(5	60%RB)	· ·			
Left cheek	100	QPSK 135RB_0	662000/3930	1:1	0.602	-0.03	17.57	19.10	1.422	0.856	22.1
			Body worn Tes	st data(Se	eparate 1	5mm 1RB)				
Front side	100	QPSK 1RB_271	650000/3750	1:1	0.054	0.18	19.68	20.10	1.102	0.059	22.1
Back side	100	QPSK 1RB_271	650000/3750	1:1	0.079	0.04	19.68	20.10	1.102	0.087	22.1
			Body worn Test	data(Sep	parate 15r	nm 50%R	B)				
Front side		QPSK 135RB_138		1:1	0.061	0.15	19.61	20.10	1.119	0.068	22.1
Back side	100	QPSK 135RB_138		1:1	0.099	0.08	19.61	20.10	1.119	0.111	22.1
	1	Body worn Test of									
Back side	100	QPSK 135RB_138		1:1	0.078	0.02	19.61	20.10	1.119	0.087	22.1
		0001157	Hotspot Test								
Front side	100	QPSK 1RB_137	650000/3750	1:1	0.104	0.15	18.65	19.10	1.109	0.115	22.1
Back side	100	QPSK 1RB_137	650000/3750	1:1	0.163	0.00	18.65	19.10	1.109	0.181	22.1
Right side	100	QPSK 1RB_137	650000/3750	1:1	0.232	0.04	18.65	19.10	1.109	0.257	22.1



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Top side	100	QPSK 1RB_137	650000/3750	1:1	0.064	0.17	18.65	19.10	1.109	0.071	22.1
	•		Hotspot Test d	ata(Sepa	rate 10mr	n 50%RE	5)	•	•		
Front side	100	QPSK 135RB_138	650000/3750	1:1	0.094	-0.09	18.59	19.10	1.125	0.106	22.1
Back side	100	QPSK 135RB_138	650000/3750	1:1	0.143	-0.13	18.59	19.10	1.125	0.161	22.1
Right side	100	QPSK 135RB_138	650000/3750	1:1	0.162	0.07	18.59	19.10	1.125	0.182	22.1
Top side	100	QPSK 135RB_138	650000/3750	1:1	0.059	0.14	18.59	19.10	1.125	0.066	22.1
		Hotspot Test of	lata at the wors	t case wit	h Battery	2#(Separ	ate 10mm 1	RB)			
Right side	100	QPSK 1RB_137	650000/3750	1:1	0.217	0.03	18.65	19.10	1.109	0.241	22.1
		-	An	t12 Test	Record	,	•				
				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	Drift	Power	Limit	factor	SAR	Temp
				•	1-g	(dB)	(dBm)	(dBm)	lactor	(W/kg)	Temp
	1			d Test D		1	1	1	1		
Left cheek	100	QPSK 1RB_137	650000/3750	1:1	0.085	0.18	23.99	24.80	1.205	0.102	22.1
Left tilted	100	QPSK 1RB_137	650000/3750	1:1	0.111	-0.18	23.99	24.80	1.205	0.134	22.1
Right cheek	100	QPSK 1RB_137	650000/3750	1:1	0.213	0.06	23.99	24.80	1.205	0.257	22.1
Right tilted	100	QPSK 1RB_137	650000/3750	1:1	0.132	0.03	23.99	24.80	1.205	0.159	22.1
	1	1			a(50%RE	<i>′</i>	1	1	1	1	
Left cheek	100	QPSK 135RB_69	650000/3750	1:1	0.094	-0.12	23.86	24.80	1.242	0.117	22.1
Left tilted	100	QPSK 135RB_69	650000/3750	1:1	0.113	-0.04	23.86	24.80	1.242	0.140	22.1
Right cheek	100	QPSK 135RB_69	650000/3750	1:1	0.180	0.05	23.86	24.80	1.242	0.223	22.1
Right tilted	100	QPSK 135RB_69	650000/3750	1:1	0.139	-0.15	23.86	24.80	1.242	0.173	22.1
			Test Data at th								
Right cheek	100	QPSK 1RB_137	650000/3750	1:1	0.198	0.04	23.99	24.80	1.205	0.239	22.1
			Body worn Tes								
Front side	100	QPSK 1RB_137	650000/3750	1:1	0.040	0.19	18.18	18.80	1.153	0.046	22.1
Back side	100	QPSK 1RB_137	650000/3750	1:1	0.058	-0.17	18.18	18.80	1.153	0.067	22.1
			Body worn Test								
Front side	100	QPSK 135RB_69		1:1	0.062	-0.02	18.10	18.80	1.175	0.073	22.1
Back side	100	QPSK 135RB_69		1:1	0.073	0.07	18.10	18.80	1.175	0.086	22.1
		Body worn Test of				2#(Separ					
Back side	100	QPSK 135RB_69		1:1	0.063	0.11	18.10	18.80	1.175	0.074	22.1
			Hotspot Test	data(Sep							
Front side	100	QPSK 1RB_137	650000/3750	1:1	0.048	0.09	18.18	18.80	1.153	0.055	22.1
Back side	100	QPSK 1RB_137	650000/3750	1:1	0.125	-0.10	18.18	18.80	1.153	0.144	22.1
Left side	100	QPSK 1RB_137	650000/3750	1:1	0.057	0.16	18.18	18.80	1.153	0.066	22.1
			Hotspot Test d								
Front side	100	QPSK 135RB_69	650000/3750	1:1	0.050	0.05	18.10	18.80	1.175	0.059	22.1
Back side	100	QPSK 135RB_69	650000/3750	1:1	0.176	-0.08	18.10	18.80	1.175	0.207	22.1
Left side	100	QPSK 135RB_69	650000/3750	1:1	0.076	0.14	18.10	18.80	1.175	0.089	22.1
		Hotspot Test da			Battery2	#(Separat					
Back side	100	QPSK 135RB_69	650000/3750	1:1	0.158	0.01	18.10	18.80	1.175	0.186	22.1

Table 29: SAR of 5G NR n77 for Head and Body.



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8.3.20 SAR Result of WIFI 2.4G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
					Head Test						
Left cheek	802.11b	6/2437	99.86%	1.001	0.737	0.15	21.11	21.50	1.094	0.807	22
Left tilted	802.11b	6/2437	99.86%	1.001	0.857	0.01	21.11	21.50	1.094	0.938	22
Right cheek	802.11b	6/2437	99.86%	1.001	0.446	0.02	21.11	21.50	1.094	0.488	22
Right tilted	802.11b	6/2437	99.86%	1.001	0.421	0.15	21.11	21.50	1.094	0.461	22
Left cheek	802.11b	1/2412	99.86%	1.001	0.707	0.01	20.98	21.50	1.127	0.798	22
Left cheek	802.11b	11/2462	99.86%	1.001	0.571	0.14	20.62	21.50	1.225	0.700	22
Left tilted	802.11b	1/2412	99.86%	1.001	0.835	0.15	20.98	21.50	1.127	0.942	22
Left tilted-repeat	802.11b	1/2412	99.86%	1.001	0.829	0.06	20.98	21.50	1.127	0.935	22
Left tilted	802.11b	11/2462	99.86%	1.001	0.682	0.03	20.62	21.50	1.225	0.836	22
			Н	lead Test da	ta at the wors	st case with	Battery2#				
Left tilted	802.11b	1/2412	99.86%	1.001	0.814	0.03	20.98	21.50	1.127	0.918	22
				Body wo	rn Test data(Separate 15	ōmm)				
Front side	802.11b	6/2437	99.86%	1.001	0.122	0.15	22.08	23.50	1.387	0.169	22
Back side	802.11b	6/2437	99.86%	1.001	0.198	0.06	22.08	23.50	1.387	0.275	22
		Во	dy worn T	est data at th	ne worst case	with Batter	ry2#(Separate	15mm)			
Back side	802.11b	6/2437	99.86%	1.001	0.185	0.01	22.08	23.50	1.387	0.257	22
				Hotspot	Test data (S	Separate 10r	mm)				
Front side	802.11b	6/2437	99.86%	1.001	0.160	0.01	21.13	22.50	1.371	0.220	22
Back side	802.11b	6/2437	99.86%	1.001	0.351	0.09	21.13	22.50	1.371	0.482	22
Right side	802.11b	6/2437	99.86%	1.001	0.132	0.17	21.13	22.50	1.371	0.181	22
Top side	802.11b	6/2437	99.86%	1.001	0.284	0.05	21.13	22.50	1.371	0.390	22
		H	lotspot Te	st data at the	worst case	with Battery	2#(Separate 1	0mm)			
Back side	802.11b	6/2437	99.86%	1.001	0.334	0.06	21.13	22.50	1.371	0.458	22
		Additi	onal Test	data(simult	aneous tran	smission v	with (WWAN+	WiFi 2.4G)			
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
					Head Test	t data					
Left cheek	802.11b	6/2437	99.86%	1.001	0.661	0.13	20.19	20.50	1.074	0.711	22
		Additional	Test data	a(simultaned	ous transmis	ssion with ((WWAN+WiFi	2.4G+WiFi	5G)	•	
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
					Head Test	t data					
Left cheek	802.11b	6/2437	99.86%	1.001	0.289	0.01	17.11	17.50	1.094	0.316	22
Left tilted	802.11b	6/2437	99.86%	1.001	0.334	-0.03	17.11	17.50	1.094	0.366	22
Right cheek	802.11b	6/2437	99.86%	1.001	0.171	0.06	17.11	17.50	1.094	0.187	22
Right tilted	802.11b	6/2437	99.86%	1.001	0.162	0.07	17.11	17.50	1.094	0.177	22

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Left tilted	1/2412	0.835	0.829	1.007	N/A	N/A

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



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

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

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



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8.3.21 SAR Result of WIFI 5G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				H	lead Test data	of U-NII-2A					
Left cheek	802.11a	60/5300	99.05%	1.01	0.666	0.06	20.80	21.00	1.047	0.704	22.2
Left tilted	802.11a	60/5300	99.05%	1.01	0.675	0.03	20.80	21.00	1.047	0.714	22.2
Right cheek	802.11a	60/5300	99.05%	1.01	0.322	0.02	20.80	21.00	1.047	0.341	22.2
Right tilted	802.11a	60/5300	99.05%	1.01	0.332	0.01	20.80	21.00	1.047	0.351	22.2
			1		lead Test data		1				
Left cheek	802.11a	116/5580	99.05%	1.01	0.795	0.03	20.31	21.00	1.172	0.941	22.2
Left tilted	802.11a	116/5580	99.05%	1.01	0.682	0.01	20.31	21.00	1.172	0.807	22.2
Right cheek	802.11a	116/5580	99.05%	1.01	0.352	0.04	20.31	21.00	1.172	0.417	22.2
Right tilted	802.11a	116/5580	99.05%	1.01	0.421	0.04	20.31	21.00	1.172	0.498	22.2
Left cheek	802.11a	140/5700	99.05%	1.01	0.785	0.16	20.27	21.00	1.183	0.938	22.2
Left tilted	802.11a	140/5700	99.05%	1.01	0.744	0.14	20.27	21.00	1.183	0.889	22.2
1 - 6 - 1 1	000 44-	457/5705	00.050/		Head Test data		00.00	00.50	4.047	0.005	00.0
Left cheek	802.11a	157/5785	99.05%	1.01	0.780	0.14	20.30	20.50	1.047	0.825	22.2
Left tilted	802.11a	157/5785	99.05%	1.01	0.656	0.02	20.30	20.50	1.047	0.694	22.2
Right cheek	802.11a	157/5785	99.05%	1.01	0.365	0.03	20.30	20.50 20.50	1.047	0.386	22.2
Right tilted	802.11a	157/5785	99.05% 99.05%	1.01 1.01	0.380 0.787	0.06 0.02	20.30		1.047	0.402	22.2 22.2
Left cheek Left tilted	802.11a 802.11a	161/5805 161/5805	99.05%	1.01	0.787	0.02	20.26 20.26	20.50 20.50	1.057 1.057	0.840 0.630	22.2
Len unted	002.11a	101/3603			data at the wor			20.50	1.057	0.630	
Left cheek	802.11a	161/5805	99.05%	1.01	0.768	0.14	20.26	20.50	1.057	0.820	22.2
Left Grieek	002.11a	101/3003			est data of U-N			20.50	1.007	0.020	
Front side	802.11a	60/5300	99.05%	1.01	0.179	-0.04	22.26	22.50	1.057	0.191	22.2
Back side	802.11a	60/5300	99.05%	1.01	0.204	0.07	22.26	22.50	1.057	0.131	22.2
Daok side	002.11a	00/0000			est data of U-N			22.00	1.007	0.210	
Front side	802.11a	116/5580	99.05%	1.01	0.157	0.02	20.54	21.50	1.247	0.198	22.2
Back side	802.11a		99.05%	1.01	0.209	0.01	20.54	21.50	1.247	0.263	22.2
					Test data of U-						
Front side	802.11a	157/5785	99.05%	1.01	0.294	-0.08	22.83	23.50	1.167	0.346	22.2
Back side	802.11a	157/5785	99.05%	1.01	0.373	0.04	22.83	23.50	1.167	0.440	22.2
		Boo	ly worn T	est data a	t the worst cas	e with Battery	2#(Separate 1	15mm)			
Back side	802.11a		99.05%	1.01	0.354	-0.05	22.83	23.50	1.167	0.417	22.2
				Hotspot T	est data of U-N	III-1(Separate	10mm)				
Front side	802.11a	40/5200	99.05%	1.01	0.200	-0.14	21.72	22.50	1.197	0.242	22.2
Back side	802.11a	40/5200	99.05%	1.01	0.250	0.03	21.72	22.50	1.197	0.302	22.2
Right side	802.11a	40/5200	99.05%	1.01	0.454	-0.05	21.72	22.50	1.197	0.549	22.2
Top side	802.11a	40/5200	99.05%	1.01	0.212	0.01	21.72	22.50	1.197	0.256	22.2
				Hotspot Te	est data of U-N	II-3 (Separate					
Front side	802.11a		99.05%	1.01	0.306	0.08	21.19	21.50	1.074	0.332	22.2
Back side	802.11a	157/5785		1.01	0.424	0.17	21.19	21.50	1.074	0.460	22.2
Right side	802.11a		99.05%	1.01	0.848	0.04	21.19	21.50	1.074	0.920	22.2
Top side	802.11a		99.05%	1.01	0.339	-0.03	21.19	21.50	1.074	0.368	22.2
Right side	802.11a		99.05%	1.01	0.814	-0.10	21.06	21.50	1.107	0.910	22.2
Right side-repeat	802.11a		99.05%	1.01	0.812	0.15	21.19	21.50	1.074	0.881	22.2
B: 17 : 1	000 ::				the worst case				4.6=:	0.000	00.0
Right side	802.11a	157/5785		1.01	0.832	-0.06	21.19	21.50	1.074	0.902	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
					lead Test data	of U-NII-2C					
Left cheek	802.11a	116/5580	99.05%	1.01	0.551	0.12	18.92	19.50	1.143	0.636	22.2
					Head Test data						



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Left cheek		157/5785		1.01	0.542	-0.09	18.88	19.50	1.153	0.631	22.2
F	Additional	Test data(s	imultane	ous trans	smission with	(WWAN+Wil	Fi 2.4G+WiFi	5G/WWAN+	WiFi 5G	+BT)	
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
				H	lead Test data	of U-NII-2A					
Left cheek	802.11a	60/5300	99.05%	1.01	0.257	0.03	16.75	17.00	1.059	0.275	22.2
Left tilted	802.11a	60/5300	99.05%	1.01	0.262	-0.10	16.75	17.00	1.059	0.280	22.2
Right cheek	802.11a	60/5300	99.05%	1.01	0.114	0.17	16.75	17.00	1.059	0.122	22.2
Right tilted	802.11a	60/5300	99.05%	1.01	0.119	-0.11	16.75	17.00	1.059	0.127	22.2
				H	lead Test data	of U-NII-2C					
Left cheek	802.11a	116/5580	99.05%	1.01	0.314	0.11	16.39	17.00	1.151	0.365	22.2
Left tilted	802.11a	116/5580	99.05%	1.01	0.265	-0.16	16.39	17.00	1.151	0.308	22.2
Right cheek	802.11a	116/5580	99.05%	1.01	0.129	0.05	16.39	17.00	1.151	0.150	22.2
Right tilted	802.11a	116/5580	99.05%	1.01	0.153	0.16	16.39	17.00	1.151	0.178	22.2
					Head Test data	a of U-NII-3					
Left cheek	802.11a	157/5785	99.05%	1.01	0.301	0.10	16.41	17.00	1.146	0.348	22.2
Left tilted	802.11a	157/5785	99.05%	1.01	0.253	0.17	16.41	17.00	1.146	0.293	22.2
Right cheek	802.11a	157/5785	99.05%	1.01	0.132	-0.04	16.41	17.00	1.146	0.153	22.2
Right tilted	802.11a	157/5785	99.05%	1.01	0.141	0.06	16.41	17.00	1.146	0.163	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
			Product s		gSAR Test dat	ta of H-NII-2A	(Separate 0m	m)			
Front side	802.11a	60/5300	99.05%	1.01	1.070	0.00	22.26	22.50	1.057	1.142	22.2
Back side	802.11a	60/5300	99.05%	1.01	0.458	0.04	22.26	22.50	1.057	0.489	22.2
Right side	802.11a	60/5300	99.05%	1.01	1.340	-0.02	22.26	22.50	1.057	1.430	22.2
Top side	802.11a	60/5300	99.05%	1.01	1.480	-0.15	22.26	22.50	1.057		22.2
1 op olde	002.114									1 580 1	
Front side					dSAR Test dat		(Separate 0m		1.037	1.580	
FIORI SIDE	802.11a					ta of U-NII-2C	(Separate 0m	m)			
	802.11a 802.11a	116/5580	99.05%	1.01	0.830	ta of U-NII-2C -0.07	20.54	m) 21.50	1.247	1.046	22.2
Back side	802.11a	116/5580 116/5580	99.05% 99.05%	1.01 1.01	0.830 0.398	ta of U-NII-2C -0.07 0.13	20.54 20.54	m) 21.50 21.50	1.247 1.247	1.046 0.501	22.2 22.2
Back side Right side	802.11a 802.11a	116/5580 116/5580 116/5580	99.05% 99.05% 99.05%	1.01 1.01 1.01	0.830 0.398 1.380	ta of U-NII-2C -0.07 0.13 0.05	20.54 20.54 20.54	m) 21.50 21.50 21.50	1.247 1.247 1.247	1.046 0.501 1.739	22.2 22.2 22.2
Back side Right side Top side	802.11a 802.11a 802.11a	116/5580 116/5580 116/5580 116/5580	99.05% 99.05%	1.01 1.01 1.01 1.01	0.830 0.398 1.380 1.150	ta of U-NII-2C -0.07 0.13	20.54 20.54 20.54 20.54	m) 21.50 21.50 21.50 21.50	1.247 1.247 1.247 1.247	1.046 0.501 1.739 1.449	22.2 22.2
Back side Right side	802.11a 802.11a	116/5580 116/5580 116/5580 116/5580 140/5700	99.05% 99.05% 99.05% 99.05%	1.01 1.01 1.01 1.01 1.01	0.830 0.398 1.380 1.150 1.490	ea of U-NII-2C -0.07 0.13 0.05 0.03 -0.04	20.54 20.54 20.54 20.54 20.53	m) 21.50 21.50 21.50 21.50 21.50 21.50	1.247 1.247 1.247 1.247 1.250	1.046 0.501 1.739	22.2 22.2 22.2 22.2
Back side Right side Top side Right side	802.11a 802.11a 802.11a 802.11a	116/5580 116/5580 116/5580 116/5580 140/5700 Product sp	99.05% 99.05% 99.05% 99.05% 99.05% ecific 100	1.01 1.01 1.01 1.01 1.01 3 SAR Tes	0.830 0.398 1.380 1.150 1.490 st data at the w	ta of U-NII-2C -0.07 0.13 0.05 0.03 -0.04 orst case with	20.54 20.54 20.54 20.54 20.53 Battery2#(Se	m) 21.50 21.50 21.50 21.50 21.50 21.50 eparate 0mm	1.247 1.247 1.247 1.247 1.250	1.046 0.501 1.739 1.449 1.882	22.2 22.2 22.2 22.2 22.2
Back side Right side Top side Right side Right side	802.11a 802.11a 802.11a 802.11a 802.11a	116/5580 116/5580 116/5580 116/5580 140/5700 Product sp 140/5700	99.05% 99.05% 99.05% 99.05% 99.05% ecific 10g	1.01 1.01 1.01 1.01 1.01 9 SAR Tes	0.830 0.398 1.380 1.150 1.490 st data at the w	ta of U-NII-2C -0.07 0.13 0.05 0.03 -0.04 corst case with	20.54 20.54 20.54 20.54 20.53 Battery2#(Se 20.53	m) 21.50 21.50 21.50 21.50 21.50 21.50 eparate 0mm 21.50	1.247 1.247 1.247 1.247 1.250	1.046 0.501 1.739 1.449 1.882	22.2 22.2 22.2 22.2 22.2 22.2
Back side Right side Top side Right side Right side	802.11a 802.11a 802.11a 802.11a 802.11a	116/5580 116/5580 116/5580 116/5580 140/5700 Product sp 140/5700	99.05% 99.05% 99.05% 99.05% 99.05% ecific 10g	1.01 1.01 1.01 1.01 1.01 9 SAR Tes	0.830 0.398 1.380 1.150 1.490 st data at the w	ta of U-NII-2C -0.07 0.13 0.05 0.03 -0.04 corst case with	20.54 20.54 20.54 20.54 20.53 Battery2#(Se 20.53	m) 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 CFAMIFI 5G/	1.247 1.247 1.247 1.247 1.250 1) 1.250 /WWAN+	1.046 0.501 1.739 1.449 1.882	22.2 22.2 22.2 22.2 22.2 22.2
Back side Right side Top side Right side Right side Additiona	802.11a 802.11a 802.11a 802.11a 802.11a Test data	116/5580 116/5580 116/5580 116/5580 140/5700 Product sp 140/5700 a(simultane	99.05% 99.05% 99.05% 99.05% 99.05% ecific 100 99.05% eous trar	1.01 1.01 1.01 1.01 1.01 5 SAR Tes 1.01 5 Smission Duty Cycle Scaled factor	0.830 0.398 1.380 1.150 1.490 st data at the w 1.410 with (WWAN SAR (W/kg)10-g	ta of U-NII-2C -0.07 0.13 0.05 0.03 -0.04 orst case with 0.07 +WiFi 5G/WV Power drift(dB)	20.54 20.54 20.54 20.54 20.53 Battery2#(Se 20.53 VAN+WiFi 2.4 Conducted power(dBm)	m) 21.50 21.50 21.50 21.50 21.50 21.50 21.50 eparate 0mm 21.50 G+WiFi 5G/ Tune up Limit(dBm)	1.247 1.247 1.247 1.247 1.250 1) 1.250 /WWAN+	1.046 0.501 1.739 1.449 1.882 1.780 WiFi 5G+B	22.2 22.2 22.2 22.2 22.2 22.2 7)
Back side Right side Top side Right side Right side Additiona Test position	802.11a 802.11a 802.11a 802.11a 802.11a Test data	116/5580 116/5580 116/5580 116/5580 140/5700 Product sp 140/5700 a(simultane	99.05% 99.05% 99.05% 99.05% 99.05% ecific 100 99.05% eous trar	1.01 1.01 1.01 1.01 1.01 5 SAR Tes 1.01 5 Smission Duty Cycle Scaled factor	0.830 0.398 1.380 1.150 1.490 st data at the w 1.410 with (WWAN	ta of U-NII-2C -0.07 0.13 0.05 0.03 -0.04 orst case with 0.07 +WiFi 5G/WV Power drift(dB)	20.54 20.54 20.54 20.54 20.53 Battery2#(Se 20.53 VAN+WiFi 2.4 Conducted power(dBm)	m) 21.50 21.50 21.50 21.50 21.50 21.50 21.50 eparate 0mm 21.50 G+WiFi 5G/ Tune up Limit(dBm)	1.247 1.247 1.247 1.247 1.250 1) 1.250 /WWAN+	1.046 0.501 1.739 1.449 1.882 1.780 WiFi 5G+B	22.2 22.2 22.2 22.2 22.2 22.2 7)
Back side Right side Top side Right side Right side Additiona	802.11a 802.11a 802.11a 802.11a 802.11a Test data Test mode	116/5580 116/5580 116/5580 116/5580 140/5700 Product sp 140/5700 a(simultane Test Ch./Freq.	99.05% 99.05% 99.05% 99.05% 99.05% ecific 100 99.05% eous trar Duty Cycle Product s 99.05%	1.01 1.01 1.01 1.01 1.01 1.01 1.01 SAR Tes 1.01 Smission Duty Cycle Scaled factor specific 10 1.01	0.830 0.398 1.380 1.150 1.490 st data at the w 1.410 with (WWAN SAR (W/kg)10-g gSAR Test dat	ta of U-NII-2C -0.07 0.13 0.05 0.03 -0.04 orst case with 0.07 +WiFi 5G/WV Power drift(dB) ta of U-NII-2A 0.17	20.54 20.54 20.54 20.54 20.53 Battery2#(Se 20.53 VAN+WiFi 2.4 Conducted power(dBm) (Separate 0m 20.24	m) 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 Eparate 0mm 21.50 G+WiFi 5G/ Tune up Limit(dBm) m) 20.50	1.247 1.247 1.247 1.247 1.250 1) 1.250 /WWAN+	1.046 0.501 1.739 1.449 1.882 1.780 WiFi 5G+B ^T Scaled SAR(W/kg)	22.2 22.2 22.2 22.2 22.2 22.2 7) Liquid Temp.

Table 31: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right side	157/5785	0.848	0.812	1.044	N/A	N/A

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

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



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

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



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8.3.22 SAR Result of BT

		1		AI	VIT SAR T	est Record		_			
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor			Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.
	1	1		•	Head Te		1				
Left cheek	DH5	39/2441	76.81%	1.302	0.391	0.10	15.04	16.00	1.247	0.635	22.0
Left tilted	DH5	39/2441	76.81%	1.302	0.258	-0.10	15.04	16.00	1.247	0.419	22.0
Right cheek	DH5	39/2441	76.81%	1.302	0.116	0.14	15.04	16.00	1.247	0.188	22.0
Right tilted	DH5	39/2441	76.81%	1.302	0.131	0.11	15.04	16.00	1.247	0.213	22.0
		ı	1	Head Test da							
Left cheek	DH5	39/2441	76.81%	1.302	0.374	0.08	15.04	16.00	1.247	0.607	22.0
		ı	1			a (Separate					
Front side	DH5	39/2441	76.81%	1.302	0.008	-0.02	15.04	16.00	1.247	0.013	22.0
Back side	DH5	39/2441	76.81%	1.302	0.049	0.05	15.04	16.00	1.247	0.079	22.0
				Test data at th							
Back side	DH5	39/2441	76.81%	1.302	0.037	0.08	15.04	16.00	1.247	0.060	22.0
			•			(Separate 1					
Front side	DH5	39/2441	76.81%	1.302	0.051	-0.05	15.04	16.00	1.247	0.083	22.0
Back side	DH5	39/2441	76.81%	1.302	0.077	-0.12	15.04	16.00	1.247	0.125	22.0
Right side	DH5	39/2441	76.81%	1.302	0.003	0.13	15.04	16.00	1.247	0.005	22.0
Top side	DH5	39/2441	76.81%	1.302	0.110	-0.05	15.04	16.00	1.247	0.179	22.0
			Hotspot '	Test data at the	worst case	e with Batte	ry2#(Separate	e 10mm)			
Top side	DH5	39/2441	76.81%	1.302	0.098	-0.01	15.04	16.00	1.247	0.159	22.0
		Ad	ditional Tes	st data(simulta	neous trai	nsmission	with (WWAN	+WiFi 5G+E	3T)		
T 4 141	Test				SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	mode	Ch./Freq.	Duty Cycle	Scaled factor		drift(dB)			factor	SAR(W/kg)	Temp.
			•		Head Te			, ,			•
Left cheek	DH5	39/2441	76.81%	1.302	0.187	0.11	12.33	13.00	1.167	0.284	22
			1 3 3 3 7 3			Test Recor				1 3.23	
							Conducted	Tune up		Scaled	
Test position	Test	Test	Duty Cycle	Duty Cycle Scaled factor	SAR	Power		Limit	Scaled	SAR	Liquid
	mode	Ch./Freq.	, .,	Scaled factor	(W/kg) 1-g	drift (dB)	(dBm)	(dBm)	factor	(W/kg)	Temp.
					Head Te	st data	((====,		(
Left cheek	DH5	39/2441	76.85%	1.301	0.276	0.02	15.20	16.00	1.202	0.432	22.0
Left tilted	DH5	39/2441	76.85%	1.301	0.054	0.11	15.20	16.00	1.202	0.084	22.0
Right cheek	DH5	39/2441	76.85%	1.301	0.160	0.00	15.20	16.00	1.202	0.250	22.0
Right tilted	DH5	39/2441	76.85%	1.301	0.100	-0.16	15.20	16.00	1.202	0.020	22.0
rtigrit tiited	טווט	33/2441	70.0076	Head Test da				10.00	1.202	0.020	22.0
Left cheek	DH5	39/2441	76.85%	1.301	0.258	-0.06	15.20	16.00	1.202	0.404	22.0
Left Crieek	פוום	39/2441	70.0576					10.00	1.202	0.404	22.0
Front side	DH5	39/2441	76.85%	1.301	0.032	(Separate	15.20	16.00	1.202	0.050	22.0
	DH5	39/2441	76.85%	1.301	0.032	0.08	15.20	16.00			
Back side	כחט	39/2441				0.01			1.202	0.051	22.0
Danie data	DUE	00/0444		Test data at th					4.000	0.000	00.0
Back side	DH5	39/2441	76.85%	1.301	0.024	0.04	15.20	16.00	1.202	0.038	22.0
	D. 15	00/0444	70.050/			(Separate 1		40.00	4.000	0.004	
	DH5	39/2441		1.301	0.052	-0.03	15.20	16.00	1.202	0.081	22.0
Front side			76.85%	1.301	0.072	-0.03	15.20	16.00	1.202	0.113	22.0
Back side	DH5	39/2441									
Back side Right side	DH5	39/2441	76.85%	1.301	0.101	-0.17	15.20	16.00	1.202	0.158	22.0
Back side			76.85% 76.85%	1.301 1.301	0.101 0.051	0.04	15.20	16.00	1.202 1.202	0.158 0.080	22.0
Back side Right side Top side	DH5 DH5	39/2441 39/2441	76.85% 76.85% Hotspot	1.301 1.301 Test data at the	0.101 0.051 worst case	0.04 with Batte	15.20 ry2#(Separate	16.00 e 10mm)	1.202	0.080	22.0
Back side Right side	DH5	39/2441 39/2441 39/2441	76.85% 76.85% Hotspot 76.85%	1.301 1.301 Test data at the 1.301	0.101 0.051 worst case 0.089	0.04 e with Batte 0.03	15.20 ery2#(Separate 15.20	16.00 e 10mm) 16.00	1.202		
Back side Right side Top side	DH5 DH5	39/2441 39/2441 39/2441 Ad	76.85% 76.85% Hotspot 76.85%	1.301 1.301 Test data at the 1.301 st data(simulta	0.101 0.051 worst case 0.089	0.04 e with Batte 0.03 nsmission	15.20 ery2#(Separate 15.20 with (WWAN	16.00 e 10mm) 16.00	1.202 1.202 3T)	0.080	22.0
Back side Right side Top side	DH5 DH5 DH5	39/2441 39/2441 39/2441 Ad	76.85% 76.85% Hotspot 76.85% Iditional Test	1.301 1.301 Test data at the 1.301 st data(simulta	0.101 0.051 worst case 0.089 neous tran	0.04 e with Batte 0.03 nsmission Power	15.20 ery2#(Separate 15.20	16.00 = 10mm) 16.00 +WiFi 5G+E Tune up	1.202 1.202 3T) Scaled	0.080	22.0
Back side Right side Top side Right side	DH5 DH5 DH5	39/2441 39/2441 39/2441 Ad Test	76.85% 76.85% Hotspot 76.85% Iditional Test	1.301 1.301 Test data at the 1.301 st data(simulta Duty Cycle	0.101 0.051 worst case 0.089 neous tran	0.04 e with Batte 0.03 nsmission Power drift(dB)	15.20 ery2#(Separate 15.20 with (WWAN Conducted	16.00 = 10mm) 16.00 +WiFi 5G+E Tune up	1.202 1.202 3T) Scaled	0.080 0.139 Scaled	22.0 22.0 Liquid

Table 32: SAR of BT for Head and Body.



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN+BT2(Ant7)	Y	Υ	Υ	Υ
2	WWAN+BT1(Ant11)	Υ	Υ	Υ	Υ
3	WWAN+WIFI 2.4G	Y	Υ	Υ	Υ
4	WWAN+WIFI 5G	Υ	Υ	Υ	Υ
5	WWAN+WiFi 2.4G+WIFI 5G	Y	Υ	Υ	Y
6	WWAN+BT2(Ant7)+WIFI 5G	Y	Y	Y	Y
7	WWAN+BT1(Ant11)+WIFI 5G	Υ	Υ	Υ	Υ
8	BT2(Ant7)+WIFI 5G	Y	Υ	Υ	Y
9	BT1(Ant11)+WIFI 5G	Y	Y	Y	Y

Note:

1) The device does not support DTM function.

2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot

State 1: WWAN+BT2(Ant7) State 2: WWAN+BT1(Ant11) State 3: WWAN+WIFI 2.4G State 4: WWAN+WIFI 5G

State 5: WWAN+WiFi 2.4G+WIFI 5G State 6: WWAN+BT2(Ant7)+WIFI 5G State 7: WWAN+BT1(Ant11)+WIFI 5G

State 8: BT2(Ant7)+WIFI 5G State 9: BT1(Ant11)+WIFI 5G



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8.4.2 Simultaneous Transmission SAR Summation Scenario

EN-DC SAR:

Head:

LTE Band	Exposure position	Ant2	Ant10	n7	EN-DC
(EN-DC)	Exposure position	AIIIZ	AIILIU	Ant1	Summed SAR
	Left cheek	0.168	0.089	0.134	0.302
Band 5	Left tilted	0.117	0.041	0.064	0.181
Danu 5	Right cheek	0.540	0.073	0.086	0.626
	Right tilted	0.231	0.051	0.072	0.303

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant4	EN-DC Summed SAR
,	Left cheek	0.168	0.089	0.177	0.345
Dand F	Left tilted	0.117	0.041	0.181	0.298
Band 5	Right cheek	0.540	0.073	0.298	0.838
	Right tilted	0.231	0.051	0.316	0.547

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant8	EN-DC Summed SAR
	Left cheek	0.168	0.089	0.337	0.505
Dond F	Left tilted	0.117	0.041	0.066	0.183
Band 5	Right cheek	0.540	0.073	0.368	0.908
	Right tilted	0.231	0.051	0.087	0.318

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant10	EN-DC Summed SAR
	Left cheek	0.168	/	0.305	0.473
Band 5	Left tilted	0.117	/	0.239	0.356
Danu 3	Right cheek	0.540	/	0.479	1.019
	Right tilted	0.231	/	0.189	0.420

LTE Band	Exposure	A mtd	A = 4.4	AntO	A = ±10	n5	EN-DC
(EN-DC)	position	Ant1 Ant4 Ant8 Ant10		Antio	Ant2	Summed SAR	
	Left cheek	0.219	0.118	0.450	0.378	0.157	0.607
Dand 7	Left tilted	0.072	0.126	0.056	0.333	0.106	0.439
Band 7	Right cheek	0.146	0.200	0.338	0.587	0.446	1.033
	Right tilted	0.134	0.246	0.114	0.225	0.291	0.537

LTE Band	Exposure	Ant1	Ant4	Ant8	Ant10	n5	EN-DC
(EN-DC)	position					Ant10	Summed SAR
	Left cheek	0.219	0.118	0.450	/	0.093	0.543
Band 7	Left tilted	0.072	0.126	0.056	/	0.042	0.168
Danu 1	Right cheek	0.146	0.200	0.338	/	0.075	0.413
	Right tilted	0.134	0.246	0.114	/	0.052	0.298



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Body-worn:

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant1	EN-DC Summed SAR
Band 5	Front	0.153	0.123	0.271	0.424
Dallu 5	Back	0.121	0.185	0.280	0.401

LTE Band	Exposure position	Ant2	Ant10	n7	EN-DC
(EN-DC)	Exposure position	AIIIZ	Antio	Ant4	Summed SAR
Band 5	Front	0.153	0.123	0.105	0.258
Danu 5	Back	0.121	0.185	0.226	0.347

LTE Band	Exposure position	Ant2	Ant10	n7	EN-DC
(EN-DC)	Exposure position	AIIIZ	Antio	Ant8	Summed SAR
Band 5	Front	0.153	0.123	0.055	0.208
Danu 5	Back	0.121	0.185	0.068	0.189

LTE Band	Exposure position	Ant2	Ant10	n7	EN-DC
(EN-DC)	Exposure position	AIIIZ	Antio	Ant10	Summed SAR
Band 5	Front	0.153	/	0.318	0.471
Dallu 5	Back	0.121	/	0.445	0.566

LTE Band	Exposure	Ant1	Ant4	Ant8	Ant10	n5	EN-DC
(EN-DC)	position	Aliti	Anta	Anto	Antio	Ant2	Summed SAR
Band 7	Front	0.302	0.130	0.092	0.370	0.135	0.505
Dalla /	Back	0.358	0.229	0.070	0.606	0.141	0.747

LTE Band (EN-DC)	Exposure position	Ant1	Ant4	Ant8	Ant10	EN-DC Summed SAR	
Band 7	Left cheek	0.302	0.130	0.092	/	0.134	0.436
Dallu /	Left tilted	0.358	0.229	0.070	/	0.169	0.527

Hotspot:

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant1	EN-DC Summed SAR
	Front	0.104	0.237	0.160	0.397
	Back	0.122	0.291	0.164	0.455
Band 7	Left	0.144	0.000	0.088	0.232
Dallu 1	Right	0.000	0.097	0.000	0.097
	Тор	0.049	0.000	0.000	0.049
	Bottom	0.000	0.213	0.146	0.359

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant4	EN-DC Summed SAR
	Front	0.104	0.237	0.007	0.244
	Back	0.122	0.291	0.100	0.391
Dond F	Left	0.144	0.000	0.006	0.150
Band 5	Right	0.000	0.097	0.000	0.097
	Тор	0.049	0.000	0.110	0.159
	Bottom	0.000	0.213	0.000	0.213



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LTE Band (EN-DC)	Exposure position	Ant2	n7 Ant8	EN-DC Summed SAR	
(LIV DO)				Aiilo	Odiffifica OAIX
	Front	0.104	0.237	0.137	0.374
	Back	0.122	0.291	0.129	0.420
Band 7	Left	0.144	0.000	0.212	0.356
banu /	Right	0.000	0.097	0.000	0.097
	Тор	0.049	0.000	0.000	0.049
	Bottom	0.000	0.213	0.000	0.213

LTE Band (EN-DC)	Exposure position	Ant2	Ant10	n7 Ant10	EN-DC Summed SAR
	Front	0.104	/	0.239	0.343
	Back	0.122	/	0.294	0.416
Band 5	Left	0.144	/	0.000	0.144
Danu 5	Right	0.000	/	0.454	0.454
	Тор	0.049	/	0.000	0.049
	Bottom	0.000	/	0.094	0.094

LTE Band	Exposure	A m44	A = 4.4	Ant8	Ant10	n5	EN-DC
(EN-DC)	position	Ant1	Ant4	Anto	Antio	Ant2	Summed SAR
	Front	0.188	0.041	0.135	0.199	0.095	0.294
	Back	0.206	0.083	0.108	0.252	0.108	0.360
Band 7	Left	0.101	0.003	0.129	0.000	0.139	0.268
Danu 1	Right	0.000	0.000	0.000	0.375	0.000	0.375
	Тор	0.000	0.000	0.000	0.000	0.039	0.039
	Bottom	0.174	0.075	0.000	0.086	0.000	0.174

LTE Band (EN-DC)	Exposure position	Ant1	Ant4	Ant8	Ant10	n5 Ant10	EN-DC Summed SAR
	Front	0.188	0.041	0.135	/	0.211	0.399
	Back	0.206	0.083	0.108	/	0.244	0.450
Band 7	Left	0.101	0.003	0.129	/	0.000	0.129
Danu 1	Right	0.000	0.000	0.000	/	0.075	0.075
	Тор	0.000	0.000	0.000	/	0.000	0.000
	Bottom	0.174	0.075	0.000	/	0.177	0.351



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Simultaneous Transmission SAR Summation Scenario:

			ous transmission SAN Summation																											
					Ant1	SAR	max (\	W/kg)							WiFi	BT An	tenna	SARr	max (\	V/kg)										
Test p	position	GSM1900	WCDMA B2	WCDMA B4	LTE B2	LTE B4			LTE B41		5G NR N7	5G NR N38	5G NR N41	WiFi 2.4G only	WiFi 2.4G State 3	2.4G State		WiFi 5G State 4/8/9	5G State	BT Ant7	BT Ant11			\$	Summ	ed SARn	nax (W/l	(g)		
							1							2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5	3+4	3+5
	Left cheek	0.043	0.109	0.051	0.106	0.069	0.314	0.211	0.195	0.027	0.134	0.114	0.123	0.807	0.711	0.316	0.941	0.636	0.365	0.635	0.432	1.025	0.950	0.949	0.746	0.995	1.314	1.111	1.576	1.373
Head	Left tilted	0.026	0.092	0.036	0.085	0.054	0.128	0.133	0.116	0.016	0.064	0.053	0.056	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.075	0.940	0.552	0.217	0.807	0.860	0.525	1.226	0.891
пеац	Right cheek	0.039	0.121	0.062	0.113	0.071	0.226	0.178	0.153	0.056	0.086	0.081	0.082	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	0.714	0.643	0.414	0.476	0.566	0.567	0.629	0.605	0.667
	Right tilted	0.026	0.087	0.037	0.089	0.049	0.144	0.140	0.121	0.040	0.072	0.042	0.063	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	0.605	0.642	0.357	0.164	0.499	0.535	0.342	0.711	0.518
Body-worn	Front	0.116	0.258	0.154	0.263	0.153	0.404	0.357	0.332	0.116	0.271	0.213	0.180	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.573	0.750	0.417	0.454	0.919	0.763	0.800	0.359	0.396
(15mm)	Back	0.198	0.479	0.202	0.495	0.214	0.742	0.398	0.350	0.213	0.280	0.279	0.260	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	1.017	1.182	0.821	0.793	1.457	1.261	1.233	0.519	0.491
	Front	0.254	0.405	0.193	0.333	0.236	0.237	0.320	0.324	0.229	0.160	0.171	0.134	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.625	0.737	0.488	0.486	0.957	0.820	0.818	0.415	0.413
	Back	0.337	0.581	0.292	0.484	0.373	0.377	0.387	0.411	0.336	0.164	0.202	0.190	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	1.063	1.041	0.706	0.694	1.523	1.166	1.154	0.585	0.573
Hotspot	Left	0.103	0.110	0.063	0.146	0.079	0.138	0.133	0.150	0.094	0.088	0.065	0.062	/	/	/	/	/	/	/	/	0.150	0.150	0.150	0.150	0.150	0.150	0.150	/	/
(10mm)	Right	/	/	/	/	/	/	/	/	/	/	/	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078	0.925	1.078
	Тор	/	/	/	/	/	/	/	/	/	/	/	/	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.390	0.368	0.179	0.080	0.758	0.547	0.448	0.547	0.448
	Bottom	0.451	0.927	0.484	0.852	0.617	0.277	0.335	0.380	0.661	0.146	0.197	0.152	/	/	/	/	/	/	/	/	0.927	0.927	0.927	0.927	0.927	0.927	0.927	/	/
	Front	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142	1.142	1.142
Product	Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501	0.501	0.501
specific	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10g SAR	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994	1.580	1.580
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

			,	Ant2 SA	Rmax (W/kg)				W	iFi/BT Aı	ntenna S	SARma	x (W/kg	3)								
Test	t position	GSM850	WCDMA B5	LTE B5	LTE B12	LTE B17	5G NR N5	5G NR N77	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only		WiFi 5G State 5/6/7	BT Ant7	BT Ant11			Sumn	ned SAI	Rmax (W/	'kg)	
					1				2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.237	0.177	0.168	0.260	0.289	0.157	0.134	0.807	0.711	0.316	0.941	0.636	0.365	0.635	0.432	1.000	0.925	0.924	0.721	0.970	1.289	1.086
Head	Left tilted	0.169	0.121	0.117	0.188	0.215	0.106	0.072	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.157	1.022	0.634	0.299	0.889	0.942	0.607
ricad	Right cheek	0.524	0.564		0.650	0.689	0.446	0.670	0.488	0.488	0.187	0.417	0.433	0.153		0.250	1.177	1.106	0.877	0.939	1.029	1.030	1.092
	Right tilted	0.352	0.302		0.383	0.409	0.291	0.194	0.461	0.461	0.177	0.498	0.498	-		0.020				0.429	0.764	0.800	0.607
Body- worn	Front	0.093	0.136	0.153	0.178	0.194	0.135	0.071	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.363	0.540	0.207	0.244	0.709	0.553	0.590
(15mm)	Back	0.104	0.137	0.121	0.197	0.199	0.141	0.079	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.474	0.639	0.278	0.250	0.914	0.718	0.690
	Front	0.110	0.107	0.104	0.172	0.184	0.095	0.055	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.404	0.516	0.267	0.265	0.736	0.599	0.597
	Back	0.128	0.128	0.122	0.206	0.221	0.108	0.068	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.703	0.681	0.346	0.334	1.163	0.806	0.794
Hotspot	Left	0.149	0.145	0.144	0.338	0.366	0.139	0.061	/	/	/	/	/	/	/	/	0.366	0.366	0.366	0.366	0.366	0.366	0.366
(10mm)	Right	/	/	/	/	/	/	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078
	Тор	0.066	0.052	0.049	0.077	0.088	0.039	0.049	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.478	0.456	0.267	0.168	0.846	0.635	0.536
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	/	/	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product		/	/	/	/	/	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific 10g	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Right	/	/	/	/	/	/	/	/	/	/	1.882	1.882		/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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		Ant3 SARmax (W/kg)			WiFi/l	BT Antenna	a SARmax	(W/kg)					0 10		04/8		
Test	position	5G NR N77	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only	WiFi 5G State 4/8/9	WiFi 5G State 5/6/7	BT Ant7	BT Ant11			Summed S	SARmax	(vv/kg)		
		1	2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.224	0.807	0.711	0.316	0.941	0.636	0.365	0.635	0.432	0.935	0.860	0.859	0.656	0.905	1.224	1.021
Head	Left tilted	0.331	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.273	1.138	0.750	0.415	1.005	1.058	0.723
пеац	Right cheek	0.364	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	0.852	0.781	0.552	0.614	0.704	0.705	0.767
	Right tilted	0.636	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	1.097	1.134	0.849	0.656	0.991	1.027	0.834
Body-	Front	0.398	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.567	0.744	0.411	0.448	0.913	0.757	0.794
worn (15mm)	Back	0.732	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	1.007	1.172	0.811	0.783	1.447	1.251	1.223
	Front	0.083	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.303	0.415	0.166	0.164	0.635	0.498	0.496
	Back	0.138	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.620	0.598	0.263	0.251	1.080	0.723	0.711
Hotspot	Left	0.051	/	/	/	/	/	/	/	/	0.051	0.051	0.051	0.051	0.051	0.051	0.051
(10mm)	Right	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078
	Тор	0.204	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.594	0.572	0.383	0.284	0.962	0.751	0.652
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10g SAR	Right	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	2.664	/	/	/	1.580	0.994	0.994	/	/	2.664	3.658	2.664	2.664	3.658	3.658	3.658
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

					Ar	nt4 SAI	Rmax ((W/kg)							WiFi/I	BT An	tenna	SARr	nax (V	V/kg)								
Tes	position	GSM1900	WCDMA B2	WCDMA B4	LTE B2	LTE B4	LTE B7	LTE B38	LTE B41	LTE B66	5G NR N7	5G NR N38	5G NR N41	WiFi 2.4G only	WiFi 2.4G State 3		5G	WiFi 5G State 4/8/9	5G State	BT Ant7	BT Ant11			Summ	ed SAF	tmax (W/	kg)	
							1							2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.369	0.362	0.356	0.383	0.422	0.197	0.239	0.268	0.343	0.177	0.252	0.251	0.807	0.711	0.316	0.941	0.636	0.365	0.635	0.432	1.133	1.058	1.057	0.854	1.103	1.422	1.219
Head	Left tilted	0.432	0.544	0.510	0.515	0.548	0.214	0.255	0.297	0.438	0.181	0.262	0.272	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.490	1.355	0.967	0.632	1.222	1.275	0.940
ricau	Right cheek	0.674	0.638	0.576	0.683	0.700	0.359	0.412	0.410	0.478	0.298	0.448	0.340	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	1.188	1.117	0.888	0.950	1.040	1.041	1.103
	Right tilted	0.877	0.948	0.848	0.940	0.891	0.487	0.431	0.440	0.716	0.316	0.459	0.424	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	1.409	1.446	1.161	0.968	1.303	1.339	1.146
Body- worn	Front	0.093	0.219	0.232	0.182	0.237	0.228	0.129	0.125	0.228	0.105	0.100	0.075	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.406	0.583	0.250	0.287	0.752	0.596	0.633
(15mm)	Back	0.131	0.338	0.378	0.353	0.431	0.530	0.166	0.151	0.403	0.226	0.182	0.184	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.805	0.970	0.609	0.581	1.245	1.049	1.021
	Front	0.168	0.163	0.142	0.150	0.156	0.080	0.097	0.065	0.124	0.007	0.084	0.043	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.388	0.500	0.251	0.249	0.720	0.583	0.581
	Back	0.279	0.283	0.251	0.233	0.244	0.152	0.138	0.147	0.205	0.100	0.163	0.086	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.765	0.743	0.408	0.396	1.225	0.868	0.856
Hotspot	Left	0.019	0.058	0.050	0.059	0.060	0.049	0.016	0.015	0.044	0.006	0.055	0.004	/	/	/	/	/	/	/	/	0.060	0.060	0.060	0.060	0.060	0.060	0.060
(10mm)	Right	/	/	/	/	/	/	/	/	/	/	/	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078
	Тор	0.333	0.341	0.324	0.385	0.346	0.127	0.129	0.134	0.297	0.110	0.172	0.111	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.775	0.753	0.564	0.465	1.143	0.932	0.833
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific 10g	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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		Ant5 SARmax (W/kg)			WiFi/B	T Antenna	SARmax (W/kg)					0	. CAD	(IAUII)		
Test	position	5G NR N77	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only	WiFi 5G State 4/8/9	WiFi 5G State 5/6/7	BT Ant7	BT Ant11			Summed	SARmax	(vv/kg)		
		1	2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.880	0.807	0.711	0.316	0.941	0.636	0.365	0.284	0.309	1.591	1.516	1.164	1.189	1.561	1.529	1.554
Head	Left tilted	0.295	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.237	1.102	0.714	0.379	0.969	1.022	0.687
пеац	Right cheek	0.231	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	0.719	0.648	0.419	0.481	0.571	0.572	0.634
	Right tilted	0.087	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	0.548	0.585	0.300	0.107	0.442	0.478	0.285
Body-	Front	0.068	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.237	0.414	0.081	0.118	0.583	0.427	0.464
worn (15mm)	Back	0.111	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.386	0.551	0.190	0.162	0.826	0.630	0.602
	Front	0.115	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.335	0.447	0.198	0.196	0.667	0.530	0.528
	Back	0.181	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.663	0.641	0.306	0.294	1.123	0.766	0.754
Hotspot	Left	0.000	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(10mm)	Right	0.257	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.438	1.177	0.262	0.415	1.358	1.182	1.335
	Тор	0.071	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.461	0.439	0.250	0.151	0.829	0.618	0.519
	Bottom	0.000	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10g SAR	Right	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

			Ant8 S	ARmax	(W/kg)					W	iFi/BT A	ntenna S	SARma	k (W/kg	g)								
Test	position	LTE B4	LTE B7	LTE B38	LTE B41	5G NR N7	5G NR N38	5G NR N41	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only	WiFi 5G State 4/8/9	WiFi 5G State 5/6/7	BT Ant7	BT Ant11			Sumn	ned SAI	Rmax (W/	'kg)	
					1				2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.370	0.313	0.695	0.648	0.337	0.551	0.229	0.807	0.711	0.316	0.941	0.636	0.365	0.284	0.432	1.406	1.331	0.979	1.127	1.376	1.344	1.492
Head	Left tilted	0.010	0.023	0.110	0.098	0.066	0.452	0.168	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.394	1.259	0.871	0.536	1.126	1.179	0.844
Head	Right cheek	0.257	0.287	0.619	0.570	0.368	0.532	0.580	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	1.107	1.036	0.807	0.869	0.959	0.960	1.022
	Right tilted	0.056	0.076	0.215	0.212	0.087	0.441	0.489	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	0.950	0.987	0.702	0.509	0.844	0.880	0.687
Body-	Front	0.003	0.054	0.097	0.079	0.055	0.040	0.011	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.266	0.443	0.110	0.147	0.612	0.456	0.493
worn (15mm)	Back	0.048	0.056	0.099	0.092	0.068	0.079	0.068	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.374	0.539	0.178	0.150	0.814	0.618	0.590
	Front	0.091	0.103	0.187	0.195	0.137	0.172	0.099	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.415	0.527	0.278	0.276	0.747	0.610	0.608
	Back	0.087	0.102	0.196	0.196	0.129	0.179	0.095	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.678	0.656	0.321	0.309	1.138	0.781	0.769
Hotspot	Left	0.242	0.131	0.328	0.299	0.212	0.278	0.270	/	/	/	/	/	/	/	/	0.328	0.328	0.328	0.328	0.328	0.328	0.328
(10mm)	Right	/	/	/	/	/	/	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078
	Тор	/	/	/	/	/	/	/	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.390	0.368	0.179	0.080	0.758	0.547	0.448
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	/	/	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	/	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific 10q	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.000	/	/	/	/	/
SAR	Right	/	/	/	/	/	/	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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		An	t9 SARn	nax (W/kg	7)			WiFi/BT	- Antenna	SARmax	(W/ka)									
Test	position	LTE B38	LTE B41	5G NR N38	5G NR N41	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only	WiFi 5G State 4/8/9	. 0,	BT Ant7	BT Ant11		S	ummed	d SARn	nax (W/ko	g)	
			1			2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.067	0.068	0.115	0.086	0.807	0.711	0.316	0.941	0.636	0.365	0.284	0.432	0.826	0.751	0.399	0.547	0.796	0.764	0.912
Head	Left tilted	0.068	0.067	0.106	0.097	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.048	0.913	0.525	0.190	0.780	0.833	0.498
Head	Right cheek	0.170	0.174	0.313	0.261	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	0.801	0.730	0.501	0.563	0.653	0.654	0.716
	Right tilted	0.142	0.150	0.229	0.202	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	0.690	0.727	0.442	0.249	0.584	0.620	0.427
Body-	Front	0.072	0.004	0.045	0.056	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.241	0.418	0.085	0.122	0.587	0.431	0.468
worn (15mm)	Back	0.220	0.086	0.160	0.223	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.498	0.663	0.302	0.274	0.938	0.742	0.714
	Front	0.011	0.071	0.019	0.004	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.291	0.403	0.154	0.152	0.623	0.486	0.484
	Back	0.213	0.229	0.370	0.437	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.919	0.897	0.562	0.550	1.379	1.022	1.010
Hotspot	Left	0.057	0.054	0.000	0.136	/	/	/	/	/	/	/	/	0.136	0.136	0.136	0.136	0.136	0.136	0.136
(10mm)	Right	/	/	/	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078
	Тор	0.082	0.044	0.000	0.080	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.472	0.450	0.261	0.162	0.840	0.629	0.530
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific 10g	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Right	/	/	/	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

				Ant	10 SA	Rmax (W/kg)					WiFi	/BT An	tenna	SARma	ax (W/I	kg)								
Test	t position	GSM850	WCDMA B5	LTE B4	LTE B5	LTE B12	LTE B7	LTE B17	5G NR N5	5G NR N7	WiFi 2.4G only		WiFi 2.4G State 5	WiFi 5G only	5G State	WiFi 5G State 5/6/7	BT Ant7	BT Ant11			Summ	ed SAR	max (W/l	kg)	
						1					2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.087	0.077	0.119	0.089	0.060	0.224	0.054	0.093	0.305	0.807	0.711	0.316	0.941	0.636	0.365	0.284	0.432	1.016	0.941	0.589	0.737	0.986	0.954	1.102
Head	Left tilted	0.035	0.044	0.075	0.041	0.031	0.229	0.029	0.042	0.239	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.181	1.046	0.658	0.323	0.913	0.966	0.631
ricad	Right cheek	0.070													0.433							0.729	0.819	0.820	0.882
	Right tilted	0.042	0.044	0.075	0.051	0.160	0.123	0.019	0.052	0.189	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	0.650	0.687	0.402	0.209	0.544	0.580	0.387
Body-	Front	0.104	0.126	0.136	0.123	0.121	0.194	0.108	0.134	0.318	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.487	0.664	0.331	0.368	0.833	0.677	0.714
worn (15mm)	Back	0.158	0.168	0.245	0.185	0.136	0.314	0.133	0.169	0.445	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.720	0.885	0.524	0.496	1.160	0.964	0.936
	Front	0.200	0.255	0.227	0.237	0.202	0.113	0.174	0.211	0.239	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.475	0.587	0.338	0.336	0.807	0.670	0.668
	Back	0.271	0.285	0.326	0.291	0.205	0.158	0.211	0.244	0.294	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.808	0.786	0.451	0.439	1.268	0.911	0.899
Hotspot	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/				0.000		0.000	0.000	0.000
(10mm)	Right	0.061	0.093	0.388	0.097	0.123	0.234	0.108	0.075	0.454	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.635	1.374	0.459	0.612	1.555	1.379	1.532
	Тор	/	/	/	/	/	/	/	/	/	0.390	0.390	0.390	0.368	0.368	0.368	0.179						0.758	0.547	0.448
	Bottom	0.136	0.201	0.118	0.213	0.098	0.045	0.082	0.177	0.094	/	/	/	/	/	/	/	/	0.213		0.213	0.213	0.213	0.213	0.213
	Front	/	/	/	/	/	/	/	/	/	/	/		1.142			/	/	/	1.142	/	/	1.142	1.142	1.142
Product		/	/	/	/	/	/	/	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific 10g	LOIL	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Right	/	/	/	/	/	/	/	/	/	/	/	/	1.882			/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	/	/	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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		Ant12 SARmax (W/kg)			WiFi/B	T Antenna	s SARmax	(W/kg)					C	d CAD-s) (\A//I+m)		
Test	position	5G NR N77	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only	WiFi 5G State 4/8/9	WiFi 5G State 5/6/7	BT Ant7	BT Ant11			Summe	ed SARma	x (vv/kg)		
		1	2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.117	0.807	0.711	0.316	0.941	0.636	0.365	0.284	0.309	0.828	0.753	0.401	0.426	0.798	0.766	0.791
Head	Left tilted	0.140	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.082	0.947	0.559	0.224	0.814	0.867	0.532
Heau	Right cheek	0.257	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	0.745	0.674	0.445	0.507	0.597	0.598	0.660
	Right tilted	0.173	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	0.634	0.671	0.386	0.193	0.528	0.564	0.371
Body-	Front	0.073	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.242	0.419	0.086	0.123	0.588	0.432	0.469
worn (15mm)	Back	0.086	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	0.361	0.526	0.165	0.137	0.801	0.605	0.577
	Front	0.059	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.279	0.391	0.142	0.140	0.611	0.474	0.472
	Back	0.207	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.689	0.667	0.332	0.320	1.149	0.792	0.780
Hotspot	Left	0.089	/	/	/	/	/	/	/	/	0.089	0.089	0.089	0.089	0.089	0.089	0.089
(10mm)	Right	/	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.181	0.920	0.005	0.158	1.101	0.925	1.078
	Тор	/	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.390	0.368	0.179	0.080	0.758	0.547	0.448
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10g SAR	Right	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

		ENDC SAR	max (W/kg)			WiFi/B	T Antenna	a SARmax	(W/kg)									
Test	position		DC_7A_N5a	WiFi 2.4G only	WiFi 2.4G State 3	WiFi 2.4G State 5	WiFi 5G only	WiFi 5G State 4/8/9	WiFi 5G State 5/6/7	BT Ant7	BT Ant11		\$	Summed	I SARmax	(W/kg)		
		1		2	2a	2b	3	3a	3b	4	5	1+2a	1+3a	1+4	1+5	1+2b+3b	1+3b+4	1+3b+5
	Left cheek	0.505	0.607	0.807	0.711	0.316	0.941	0.636	0.365	0.284	0.432	1.318	1.243	0.891	1.039	1.288	1.256	1.404
Head	Left tilted	0.356	0.439	0.942	0.942	0.366	0.807	0.807	0.308	0.419	0.084	1.381	1.246	0.858	0.523	1.113	1.166	0.831
Heau	Right cheek	1.019	1.033	0.488	0.488	0.187	0.417	0.433	0.153	0.188	0.250	1.521	1.450	1.221	1.283	1.373	1.374	1.436
	Right tilted	0.547	0.537	0.461	0.461	0.177	0.498	0.498	0.178	0.213	0.020	1.008	1.045	0.760	0.567	0.902	0.938	0.745
Body-	Front	0.471	0.505	0.169	0.169	0.169	0.346	0.346	0.346	0.013	0.050	0.674	0.851	0.518	0.555	1.020	0.864	0.901
worn (15mm)	Back	0.566	0.747	0.275	0.275	0.275	0.440	0.440	0.440	0.079	0.051	1.022	1.187	0.826	0.798	1.462	1.266	1.238
	Front	0.397	0.399	0.220	0.220	0.220	0.332	0.332	0.332	0.083	0.081	0.619	0.731	0.482	0.480	0.951	0.814	0.812
	Back	0.455	0.450	0.482	0.482	0.482	0.460	0.460	0.460	0.125	0.113	0.937	0.915	0.580	0.568	1.397	1.040	1.028
Hotspot	Left	0.356	0.268	/	/	/	/	/	/	/	/	0.356	0.356	0.356	0.356	0.356	0.356	0.356
(10mm)	Right	0.454	0.375	0.181	0.181	0.181	0.920	0.920	0.920	0.005	0.158	0.635	1.374	0.459	0.612	1.555	1.379	1.532
	Тор	0.159	0.039	0.390	0.390	0.390	0.368	0.368	0.368	0.179	0.080	0.549	0.527	0.338	0.239	0.917	0.706	0.607
	Bottom	0.359	0.351	/	/	/	/	/	/	/	/	0.359	0.359	0.359	0.359	0.359	0.359	0.359
	Front	/	/	/	/	/	1.142	1.142	1.142	/	/	/	1.142	/	/	1.142	1.142	1.142
Product	Back	/	/	/	/	/	0.501	0.501	0.501	/	/	/	0.501	/	/	0.501	0.501	0.501
specific 10q	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Right	/	/	/	/	/	1.882	1.882	1.882	/	/	/	1.882	/	/	1.882	1.882	1.882
(0mm)	Тор	/	/	/	/	/	1.580	0.994	0.994	/	/	/	0.994	/	/	0.994	0.994	0.994
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



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9 Equipment list

Test Platform	SPEAG DASY5 Professional
Description	SAR Test System (Frequency range 300MHz-6GHz)
Software Reference	DASY52; SEMCAD

Hardware Reference

	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
\boxtimes	Twin Phantom	SPEAG	SAM 11	1027	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4	1267	2020-06-12	2021-06-11
	E-Field Probe	SPEAG	EX3DV4	3962	2020-04-01	2021-03-31
	E-Field Probe	SPEAG	EX3DV4	3982	2020-10-28	2021-10-27
\boxtimes	Validation Kits	SPEAG	D750V3	1160	2019-05-22	2022-05-21
	Validation Kits	SPEAG	D835V2	4d105	2019-12-17	2022-12-16
	Validation Kits	SPEAG	D1750V2	1149	2019-05-21	2022-05-20
\boxtimes	Validation Kits	SPEAG	D1900V2	5d028	2019-12-17	2022-12-16
	Validation Kits	SPEAG	D2450V2	733	2019-12-17	2022-12-16
\boxtimes	Validation Kits	SPEAG	D2600V2	1125	2019-05-20	2022-05-19
	Validation Kits	SPEAG	D3700V2	1046	2019-09-06	2022-09-05
\boxtimes	Validation Kits	SPEAG	D3900V2	1026	2019-09-03	2022-09-02
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1165	2019-12-20	2022-12-19
\boxtimes	Agilent Network Analyzer	Agilent	E5071C	MY46523591	2020-04-16	2021-04-15
	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2020-04-16	2021-04-15
\boxtimes	Radio Communication Analyzer	Anritsu	MT8821C	6201502984	2020-06-11	2021-06-10
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
\boxtimes	Signal Generator	Agilent	N5171B	MY53050736	2020-04-15	2021-04-14
	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
\boxtimes	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	073501433	NCR	NCR
\boxtimes	Power Meter	Agilent	E4416A	GB41292095	2020-04-15	2021-04-14
\boxtimes	Power Sensor	Agilent	8481H	MY41091234	2020-04-15	2021-04-14
	Power Sensor	R&S	NRP-Z92	100025	2020-04-16	2021-04-15
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR



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	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
	50 Ω coaxial load	Mini-Circuits	KARN-50+	00850	NCR	NCR
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
\boxtimes	Speed reading thermometer	MingGao	T809	NA	2020-04-21	2021-04-20
	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2020-04-21	2021-04-20

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

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 Table

---END---



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