

Report No.: SEWM2311000454RG09

Rev.: 01 Page: 1 of 121

FCC SAR TEST REPORT

Application No.: SEWM2311000454RG

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

Product Name: Mobile Phone

Model No.(EUT): XIG05
Trade Mark: Redmi

FCC ID: 2AFZZRA50J

Standards: FCC 47CFR §2.1093

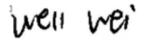
Date of Receipt: 2023-11-11

Date of Test: 2023-11-16 to 2023-12-18

Date of Issue: 2023-12-22
Test conclusion: PASS *

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

Authorized Signature:



Well Wei

Wireless Laboratory Manager



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 2 of 121

REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2311000454RG09	01	Original	2023-12-22



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 3 of 121

TEST SUMMARY

	Maximum Reported SAR(W/kg)						
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR			
GSM850	0.79	0.62	0.71	1.99			
GSM1900	1.05	0.25	0.75	/			
WCDMA Band II	1.03	0.85	0.99	/			
WCDMA Band IV	1.07	1.07	0.94	/			
WCDMA Band V	0.96	0.57	0.94	/			
LTE Band 2	1.09	1.01	1.06	2.37			
LTE Band 4	1.01	0.93	0.70	/			
LTE Band 7	0.92	0.82	0.85	/			
LTE Band 12	0.66	0.54	1.05	/			
LTE Band 13	0.83	0.91	0.90	1.45			
LTE Band 26	0.78	0.69	0.97	/			
LTE Band 41	0.81	0.67	0.55	/			
LTE Band 66	1.03	0.93	1.04	/			
NR Band n5	0.98	0.40	1.01	/			
NR Band n7	0.95	0.73	0.63	/			
NR Band n41	1.04	0.88	0.69	/			
NR Band n66	1.04	0.77	0.86	/			
NR Band n77	0.92	0.75	0.64	/			
WI-FI (2.4GHz)	1.06	0.28	0.62	/			
WI-FI (5GHz)	1.08	0.40	0.75	2.39			
ВТ	0.18	<0.1	<0.1	/			
SAR Limited(W/kg)		1.6		4.0			
Maximum Simultaneous Transmission SAR (W/kg)							
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR			
Sum SAR	1.58	1.50	1.57	2.39			
SPLSR	/	/	/	/			
SPLSR Limited		0.04		0.1			

Note:

1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 5 (Frequency range:824 - 849 MHz)/ LTE Band 17 (Frequency range:704-716 MHz)/LTE Band 38 (Frequency range:2570 - 2620 MHz)/ n78 (Frequency range:3300 - 3800 MHz is respectively covered by LTE Band 26 (Frequency range:814 - 849 MHz)/ LTE Band 12 (Frequency range:699-716 MHz)/LTE Band41 (Frequency range:2496 - 2690 MHz)/ n78 (Frequency range:3300 - 3800 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth.

2) For LTE band 4/5/12/13/26 and n41/n77 that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Reviewed by

Prepared by

Leon Xu

Leon Xu



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 4 of 121

Nick Hu

CONTENTS

1 GENERAL INFORMATION	
1.1 DETAILS OF CLIENT 1.2 TEST LOCATION 1.3 TEST FACILITY 1.4 GENERAL DESCRIPTION OF EUT 1.4.1 DUT Antenna Locations (Back View) 1.4.2 LTE CA additional specification 1.4.3 Power reduction specification 1.5 TEST SPECIFICATION 1.6 RF EXPOSURE LIMITS	
3 SAR MEASUREMENTS SYSTEM CONFIGURATION	
3.1 THE SAR MEASUREMENT SYSTEM	
3.2 ISO I ROPIC E-FIELD PROBE EX3DV4	
3.4 SAM TWIN PHANTOM	
3.5 ELI PHANTOM	
3.6 DEVICE HOLDER FOR TRANSMITTERS	
3.7 MEASUREMENT PROCEDURE	23
3.7.1 Scanning procedure	
3.7.2 Data Storage	
3.7.3 Data Evaluation by SEMCAD	
4 SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	27
4.1 SAR MEASUREMENT VARIABILITY	27
4.2 SAR MEASUREMENT UNCERTAINTY	27
5 DESCRIPTION OF TEST POSITION	28
5.1 Head Exposure Condition	28
5.1.1 SAM Phantom Shape	28
5.1.2 EUT constructions	
5.1.3 Definition of the "cheek" position	
5.1.4 Definition of the "tilted" position	
5.2 Body Exposure Condition	
5.2.1 Body-worn accessory exposure conditions	
5.3 EXTREMITY EXPOSURE CONDITIONS	



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 5 of 121

5.4 Proximity Sensor Triggering Test	33
6 SAR SYSTEM VERIFICATION PROCEDURE	38
6.1 TISSUE SIMULATE LIQUID	38
6.1.1 Recipes for Tissue Simulate Liquid	
6.1.2 Measurement for Tissue Simulate Liquid	
6.2 SAR System Check	
6.2.1 Justification for Extended SAR Dipole Calibrations	41
6.2.2 Summary System Check Result(s)	42
6.2.3 Detailed System Check Results	42
7 TEST CONFIGURATION	43
7.1 3G SAR Test Reduction Procedure	43
7.2 OPERATION CONFIGURATIONS	43
7.2.1 GSM Test Configuration	43
7.2.2 WCDMA Test Configuration	44
7.2.3 WiFi Test Configuration	50
7.2.4 LTE Test Configuration	55
7.2.5 NR Band Test Configuration	58
8 TEST RESULT	
8.1 MEASUREMENT OF RF CONDUCTED POWER	62
8.2 Measurement of SAR Data	64
8.2.1 SAR Result of GSM850	
8.2.2 SAR Result of GSM1900	
8.2.3 SAR Result of WCDMA Band II	
8.2.4 SAR Result of WCDMA Band IV	
8.2.5 SAR Result of WCDMA Band V	
8.2.6 SAR Result of LTE Band 2	
8.2.7 SAR Result of LTE Band 4	
8.2.8 SAR Result of LTE Band 7	
8.2.9 SAR Result of LTE Band 12	
8.2.10 SAR Result of LTE Band 13	
8.2.11 SAR Result of LTE Band 26	
8.2.12 SAR Result of LTE Band 41	
8.2.1 SAR Result of LTE Band 66	
8.2.1 SAR Result of 5G NR n5	
8.2.2 SAR Result of 5G NR n7	
8.2.3 SAR Result of 5G NR n41	
8.2.4 SAR Result of 5G NR n66	
8.2.5 SAR Result of 5G NR n77(3450~3550)	
8.2.6 SAR Result of 5G NR n77(3700~3980)	
8.2.7 SAR Result of WIFI 2.4G	
8.2.1 SAR Result of WIFI 5G	
8.2.2 SAR Result of BT	
8.3 MULTIPLE TRANSMITTER EVALUATION	
8.3.1 Simultaneous SAR SAR test evaluation	
8.3.2 Simultaneous Transmission SAR Summation Scenario	112



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 6 of 121

9 EQUIPMENT LIST	118
10 CALIBRATION CERTIFICATE	121
11 PHOTOGRAPHS	121
APPENDIX A: DETAILED SYSTEM CHECK RESULTS	121
APPENDIX B: DETAILED TEST RESULTS	121
APPENDIX C: CALIBRATION CERTIFICATE	121
APPENDIX D: PHOTOGRAPHS	121
APPENDIX E: CONDUCTED RF OUTPUT POWER	121



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 7 of 121

1.1.1 DUT Antenna Locations (Back View)

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

Note:

1) The test device is a smart phone. The overall diagonal dimension of this device is 178 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

2) Ant 4 is sensor pad 1 Ant 3/7 is sensor pad 2

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:

in draw the conclusion that:								
EUT Sides for SAR Testing								
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom	
Ant 0	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	Yes	
Ant 1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	No	
Ant 2	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	No	
Ant 3	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No	
Ant 4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	No	Yes	
Ant 5	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No	
Ant 6	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No	
Ant 7	Hotspot/Product specific 10g SAR	Yes	Yes	No	No	Yes	No	
Ant 8	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No	
Ant 10	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No	
Ant 11	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No	
Ant 12	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 8 of 121

2 General Information

2.1 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

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.					
Address:	ddress: South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone					
Post code:	215000					
Test Engineer:	Alan-Zhang, Leon-Xu					



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Rev.: 01 Page: 9 of 121

2.3 Test Facility

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• A2LA (Certificate No. 6336.01)

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• Innovation, Science and Economic Development Canada

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CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

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

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Designation Number: CN1312.

Test Firm Registration Number: 717327





Report No.: SEWM2311000454RG09

Rev.: 01

Page: 10 of 121

2.4 General Description of EUT

Device Type :	portable device								
Exposure Category:	uncontrolled environment / general population								
Product Name:	Mobile Phone								
Model No.(EUT):	XIG05								
FCC ID:	2AFZZRA50J								
Trade Mark:	Redmi								
Product Phase:	Identical Prototype								
	1# 864594070003084/864594070003055								
IMEI:	2# 864594070019903/864594070019911								
	3# 864594070003469/8645	94070003477							
Hardware Version:	13510N16								
Software Version:	Xiaomi HyperOS 1.0								
Device Operating Configuration									
	GSM: GMSK, 8PSK; WCDM								
Modulation Mode:	LTE: QPSK,16QAM,64QAN	n; BPSK, QPSK, 16QAM, 64QAN	A 2560 (M)						
Wodulation Wode.	CP-OFDM (QPSK, 16QAM,		vi, 200QAIVI),						
		IA; BT: GFSK, π/4DQPSK,8DF	PSK						
Device Class:	В	,							
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33						
HSDPA UE Category:	24	HSUPA UE Category	7						
DC-HSDPA UE Category:	24								
	4,tested with power level 5(GSM850)							
Dawer Class	1,tested with power level 0(GSM1900)								
Power Class	3, tested with power control "all 1"(WCDMA Band)								
	3, tested with power control	Max Power(LTE Band)							
	Band	Tx (MHz)	Rx (MHz)						
	GSM850	824-849	869-894						
	GSM1900	1850-1910	1930-1990						
	WCDMA Band II	1850-1910	1930-1990						
	WCDMA Band IV	1710-1755	2110-2155						
	WCDMA Band V	824-849	869-894						
	LTE Band 2	1850 -1910	1930 -1990						
	LTE Band 4	1710-1755	2110-2155						
Francisco Danda	LTE Band 5	824-849	869-894						
Frequency Bands:	LTE Band 7	2500-2570	2620-2690						
	LTE Band 12	699-716	729-746						
	LTE Band 13	777 - 787	746 - 756						
	LTE Band 17	704-716	734-746						
	LTE Band 26	814-849	859-894						
	LTE Band 66	1710-1780	2110-2200						
	LTE Band 38	2570-2620	2570-2620						
	LTE Band 41	2496-2690	2496-2690						
NR Band n5 824-849 869-894									



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 11 of 121

NR Band n7	2500-2570	2620-2690	
NR Band n38	2570-2620	2570-2620	
NR Band n41	2496-2690	2496-2690	
NR Band n66	1710-1780	2110-2200	
ND Dond 277	3450-3550	3450-3550	
NR Band n//	3700-3980	3700-3980	
ND Dond = 70	3450-3550	3450-3550	
NR Band 1178	3700-3800	3700-3800	
Bluetooth	2400-2483.5	2400-2483.5	
Wi-Fi 2.4G	2402-2462	2402-2462	
	5150-5250	5150-5250	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5250-5350	5250-5350	
WI-FI 5G	5470-5725	5470-5725	
	5725-5850	5725-5850	
□ Provided by the second sec	he aplicant Provided by the	aboratory	
Model:	BM5V		
Normal Voltage:	+3.91V		
Rated capacity:	5020mAh		
Manufacturer:	NVT		
	NR Band n38 NR Band n41 NR Band n66 NR Band n77 NR Band n78 Bluetooth Wi-Fi 2.4G Wi-Fi 5G Provided by t Model: Normal Voltage: Rated capacity:	NR Band n38 2570-2620 NR Band n41 2496-2690 NR Band n66 1710-1780 NR Band n77 3450-3550 NR Band n78 3450-3550 NR Band n78 3700-3800 Bluetooth 2400-2483.5 Wi-Fi 2.4G 2402-2462 5150-5250 5250-5350 5470-5725 5725-5850 Model: BM5V Normal Voltage: +3.91V Rated capacity: 5020mAh	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 12 of 121

2.4.1 LTE CA additional specification

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

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

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

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

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

Intra-band contiguous CA operating bands:

E-UTRA CA	E-UTRA	Uplink (UL) operating band		Downlink (DL) operating band			Duplex	
Band	Band	BS receive / UE transmit		BS transmit / UE receive			Mode	
		F _{UL_low} - F _{UL_high}		$F_{DL_low} - F_{DL_high}$				
CA_7C	7	2502.5 MHz	_	2567.5 MHz	2620 MHz	_	2690 MHz	FDD
CA_38C	38	2572.5 MHz	_	2617.5 MHz	2572.5MHz	_	2617.5 MHz	TDD



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 13 of 121

c) The device supports Inter-band uplink LTE CA for CA_2A-4A,CA_4A-7A with two component carriers in the uplink.

1. For Inter-band uplink LTE CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink LTE CA SAR from standalone SAR test results of each LTE component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each Inter-band uplink LTE CA component band as the inter-band Uplink LTE CA SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report. Since the maximum output power of the LTE Inter-band uplink band is ≤ the LTE Band, the SAR data of the LTE Band is used instead of the SAR data of the LTE Inter-band uplink band.

2CC Downlink Carrier Aggregation	DL 4x4 MIMO	3CC Downlink Carrier Aggregation	DL 4x4 MIMO
CA_2C	-	CA_2A-4A-5A	-
CA_2A-2A	-	CA_2A-4A-7A	7A
CA_2A-4A	-	CA_2A-5A-7A	7A
CA_2A-5A	-	CA_2A-5A-66A	66A
CA_2A-7A	7A	CA_2A-7A-7A	7A, 7A-7A
CA_2A-26A	-	CA_2A-7C	7C
CA_2A-66A	66A	CA_2A-7A-66A	7A
CA_4A-4A	4A-4A	CA_4A-7C	4A,7C
CA_4A-5A	4A	CA_5A-7A-7A	7A, 7A-7A
CA_4A-7A	4A-7A	CA_5A-7C	7C
CA_5A-7A	7A	CA_5A-66A-66A	66A, 66A-66A
CA_5A-66A	66A	CA_7A-66A-66A	7A
CA_7A-7A	7A-7A	CA_41A-41A-41A	41A-41A
CA_7C	7C	CA_41D	-
CA_7A-26A	7A		
CA_7A-66A	7A,66A		
CA_12A-66A	66A		
CA_26A-41A	41A		
CA_38C	38C		
CA_41C	41C		
CA_41A-41A	41A-41A		
CA_66A-66A	66A-66A		
CA_66C	66C		
CA_66B	66B		



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 14 of 121

2.4.2 Power reduction specification

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

- 1) 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
- 2) 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.
- 3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

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





Report No.: SEWM2311000454RG09

Rev.: 01 Page: 15 of 121

2.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 16 of 121

2.6 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.



Report No.: SEWM2311000454RG09

Rev.: 01

Page: 17 of 121

3 Laboratory Environment

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

Table 2: The Ambient Conditions



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 18 of 121

4 SAR Measurements System Configuration

4.1 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.

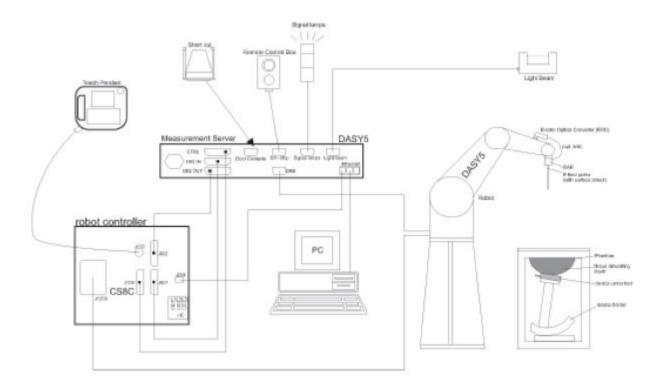
The DASY5 system for performing compliance tests consists of the following items:

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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 19 of 121

• 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.

4.2 Isotropic E-field Probe EX3DV4

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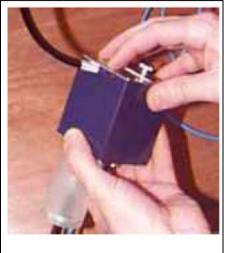


Report No.: SEWM2311000454RG09

Rev.: 01 Page: 20 of 121

4.3 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



4.4 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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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 21 of 121

4.5 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				



The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 10 GHz. ELI is fully compatible with the IEC/IEEE 62209-1528 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 of SPEAG's dosimetric probes and dipoles.

ELI V5.0 and higher has the same shell geometry and is manufactured from the same material as ELI V4.0 but has a reinforced top structure.



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 22 of 121

4.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 23 of 121

4.7 Measurement procedure

4.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 24 of 121

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

Step 4: Power reference measurement (drift)

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 25 of 121

4.7.2 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.

4.7.3 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

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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SEWM2311000454RG09 Report No.:

Rev.: Page: 26 of 121

H-field probes:

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

With Vi = compensated signal of channel i (i = x, y, z)
Normi = sensor sensitivity of channel I (i = x, y, z)

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

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

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 27 of 121

5 SAR measurement variability and uncertainty

5.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

5.2 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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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 28 of 121

6 Description of Test Position

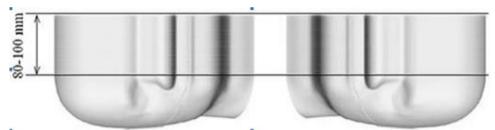
6.1 Head Exposure Condition

6.1.1 SAM Phantom Shape

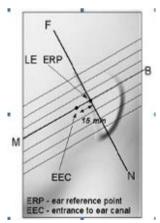


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

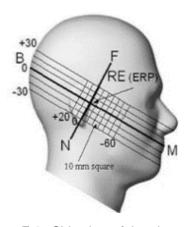
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



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



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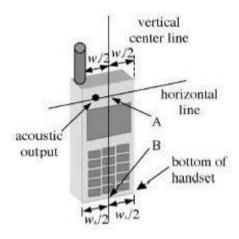
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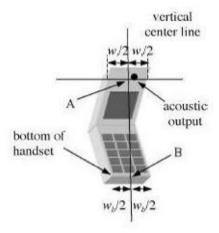
Report No.: SEWM2311000454RG09

Rev.: 01 Page: 29 of 121

6.1.2 EUT constructions



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



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

6.1.3 Definition of the "cheek" position

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



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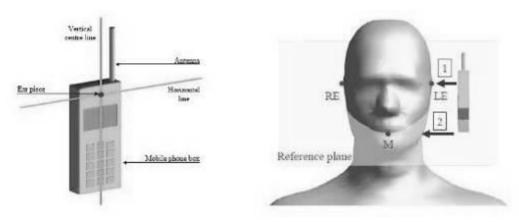
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Rev.: 01

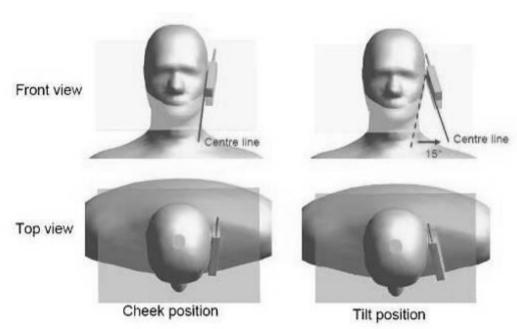
Page: 30 of 121

6.1.4 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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 31 of 121

6.2 Body Exposure Condition

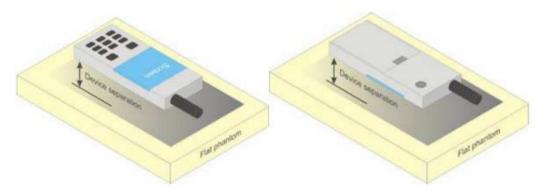
6.2.1 Body-worn accessory exposure conditions

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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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 32 of 121

6.2.2 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.

6.3 Extremity exposure conditions

Per FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 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, hotspot power levels, and product specific 10g SAR power levels are the same, no frequency bands need to test with 0mm for the Product Specific 10-g SAR are not required.



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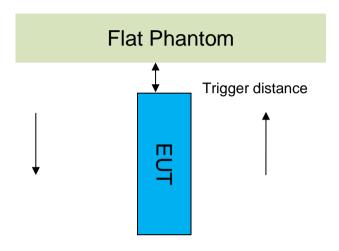
Report No.: SEWM2311000454RG09

Rev.: 01 Page: 33 of 121

6.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

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



Proximity Sensor Triggering Distance(mm)							
	Ant4						
Position	Front Back Right Side Bottom Side				Bottom Side		
Minimum	16	16	16		16		
Required SAR Test	15	15	15		15		
	Ant3/7						
Position	Front		Back		Top Side		
Minimum	6	6	6		6 6		6
Required SAR Test	5	5	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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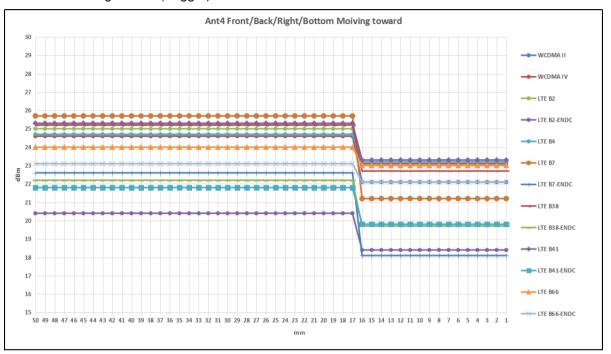
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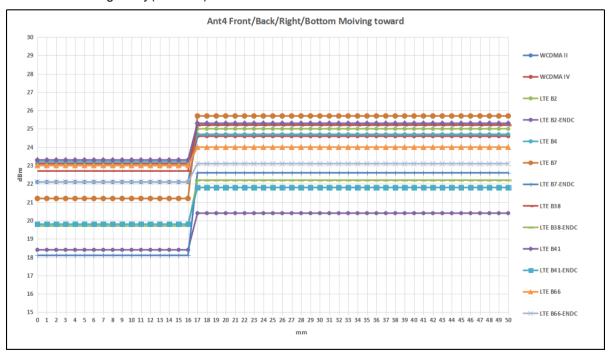
Report No.: SEWM2311000454RG09

Rev.: 01 Page: 34 of 121

Ant 4 DUT Moving Toward(Trigger)the Phantom



Ant 4 DUT Moving Away(Release) from the Phantom





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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 35 of 121



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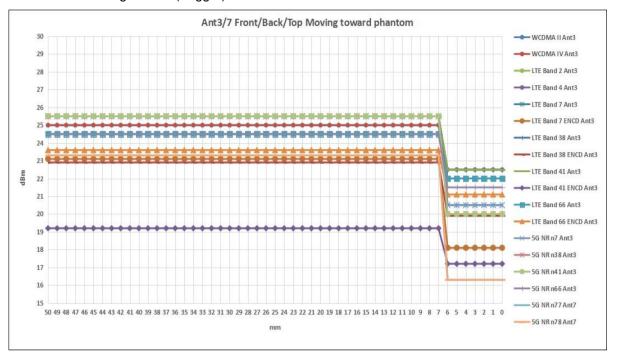


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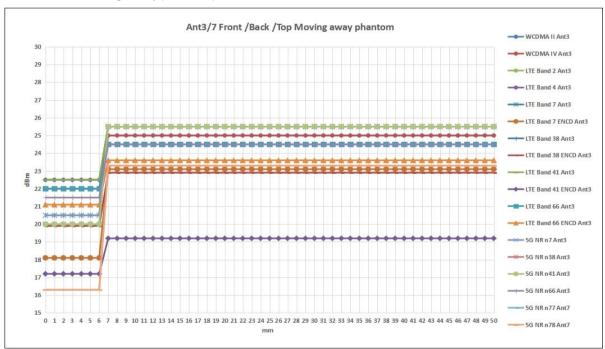
Rev.: 01

Page: 36 of 121

Ant 3/7 DUT Moving Toward(Trigger)the Phantom



Ant 3/7 DUT Moving Away(Release) from the Phantom





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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 37 of 121

Proximity sensor coverage

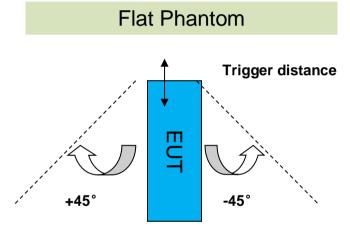
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing,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

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

Device tilt angle influences to proximity sensor triggering

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

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



	Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side												
Band Minimum trigger distance Per KDB616217§6.2		Minimum trigger distance at which	Power Reduction Status										
	power reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
Ant4	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant3/7	Top side:6mm	Top side:6mm	on	on	on	on	on	on	on	on	on	on	on



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Report No.: SEWM2311000454RG09

Rev.: 01

Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

Page: 38 of 121

7 SAR System Verification Procedure

7.1 Tissue Simulate Liquid

7.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients	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

HSL13MHz is composed of the following ingredients:

Water: 50-90%

Non-ionic detergents: 5-50%

Nacl: 0-2%

Preservative: 0.03-0.1%

HSL5GHz is composed of the following ingredients:

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

Table 3: Recipe of Tissue Simulate Liquid



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 39 of 121

7.1.2 Measurement for Tissue Simulate Liquid

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

	Measured	Target Tis	sue (±5%)	Measure	d Tissue	Liquid Temp.	
Tissue Type	Frequency (MHz)	εr	σ(S/m)	ε _r	σ(S/m)	(℃)	Test Date
750 Head	750	41.9	0.89	42.914	0.883	22.2	2023-11-16
835 Head	835	41.5	0.9	41.888	0.935	22.4	2023-11-18
835 Head	835	41.5	0.9	41.999	0.933	22.5	2023-11-20
1750 Head	1750	40.1	1.37	39.138	1.342	22.3	2023-11-22
1750 Head	1750	40.1	1.37	39.240	1.339	22.4	2023-11-24
1750 Head	1750	40.1	1.37	39.259	1.338	22.2	2023-11-26
1750 Head	1750	40.1	1.37	39.269	1.340	22.1	2023-11-28
1950 Head	1950	40.0	1.40	38.922	1.455	22.2	2023-11-30
1950 Head	1950	40.0	1.40	39.055	1.451	22.5	2023-12-02
2450 Head	2450	39.2	1.80	40.247	1.778	22.5	2023-12-16
2600 Head	2600	39.0	1.96	37.691	1.962	22.5	2023-12-04
2600 Head	2600	39.0	1.96	37.798	1.951	22.5	2023-12-06
2600 Head	2600	39.0	1.96	37.775	1.950	22.1	2023-12-08
2600 Head	2600	39.0	1.96	37.695	1.940	22.2	2023-12-10
3500 Head	3500	37.9	2.91	39.187	2.882	22.3	2023-12-12
3900 Head	3900	37.5	3.32	37.227	3.432	22.2	2023-12-14
5250 Head	5250	35.9	4.66	36.897	4.807	22.5	2023-12-16
5600 Head	5600	35.5	5.07	36.029	5.196	22.3	2023-12-18
5750 Head	5750	35.4	5.22	35.848	5.392	22.5	2023-12-18

Table 4: Measurement result of Tissue electric parameters.



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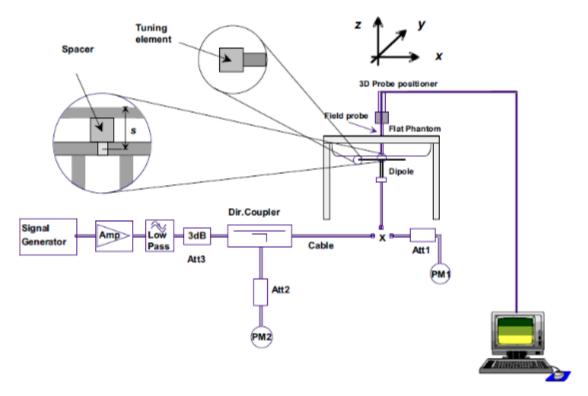


Report No.: SEWM2311000454RG09

Rev.: 01 Page: 40 of 121

7.2 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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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 41 of 121

7.2.1 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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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 42 of 121

7.2.2 Summary System Check Result(s)

Valid	dation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	ed (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	_		
D750V3	Head	2.16	1.43	8.64	5.72	8.48	5.56	1.89%	2.88%	22.2	2023-11-16
D835V2	Head	2.36	1.55	9.44	6.20	9.60	6.16	-1.67%	0.65%	22.4	2023-11-18
D835V2	Head	2.43	1.61	9.72	6.44	9.60	6.16	1.25%	4.55%	22.5	2023-11-20
D1750V2	Head	9.15	4.78	36.60	19.12	37.00	19.30	-1.08%	-0.93%	22.3	2023-11-22
D1750V2	Head	9.23	4.89	36.92	19.56	37.00	19.30	-0.22%	1.35%	22.4	2023-11-24
D1750V2	Head	9.21	4.84	36.84	19.36	37.00	19.30	-0.43%	0.31%	22.2	2023-11-26
D1750V2	Head	9.19	4.86	36.76	19.44	37.00	19.30	-0.65%	0.73%	22.1	2023-11-28
D1950V2	Head	10.40	5.36	41.60	21.44	40.40	20.80	2.97%	3.08%	22.2	2023-11-30
D1950V2	Head	10.10	5.21	40.40	20.84	40.40	20.80	0.00%	0.19%	22.5	2023-12-02
D2450V2	Head	12.80	5.93	51.20	23.72	52.70	24.60	-2.85%	-3.58%	22.5	2023-12-16
D2600V2	Head	13.80	6.17	55.20	24.68	57.10	25.40	-3.33%	-2.83%	22.5	2023-12-04
D2600V2	Head	14.50	6.47	58.00	25.88	57.10	25.40	1.58%	1.89%	22.5	2023-12-06
D2600V2	Head	14.30	6.43	57.20	25.72	57.10	25.40	0.18%	1.26%	22.1	2023-12-08
D2600V2	Head	13.90	6.28	55.60	25.12	57.10	25.40	-2.63%	-1.10%	22.2	2023-12-10
Valid	dation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)		(normalized	Target SAR (normalized to 1W)	I I I I I I I I I I I I I I I I I I I		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D3500V2	Head(3.5GHz)	6.59	2.48	65.90	24.80	66.60	24.90	-1.05%	-0.40%	22.3	2023-12-12
D3900V2	Head(3.9GHz)	6.83	2.33	68.30	23.30	69.70	24.00	-2.01%	-2.92%	22.2	2023-12-14
	Head(5.25GHz)	7.63	2.14	76.30	21.40	78.00	21.80	-2.18%	-1.83%	22.5	2023-12-16
D5GHzV2	Head(5.6GHz)	7.74	2.17	77.40	21.70	79.90	22.50	-3.13%	-3.56%	22.3	2023-12-18
	Head(5.75GHz)	7.37	2.06	73.70	20.60	76.40	21.20	-3.53%	-2.83%	22.5	2023-12-18

Table 5: SAR System Check Result.

7.2.3 Detailed System Check Results

Please see the Appendix A



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 43 of 121

8 Test Configuration

8.1 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.

8.2 Operation Configurations

8.2.1 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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 44 of 121

8.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA / DC-HSDPA

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

a) HSDPA

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 45 of 121

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

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

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

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

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 46 of 121

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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Report No.: SEWM2311000454RG09

Rev.: 47 of 121 Page:

Sub -test₽	βee	βd↔	βd (SF)θ	β₀∕β⋴⋼	β _{hs} (1	β _{ec+} 2	$\beta_{\text{ed}} \wp$	β _e _{e+} (SF	βed+ ¹ (code	CM(2)+1 (dB)+2	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₊³	1039/225	4₽	1₽	1.04	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0∉	2.0₽	12 0	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	15.	92₽
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)47	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4€	1€	1.04	0.0₽	210	81₽

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 8 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ $\beta_{hs} = 30/15 * \beta_{e4}$

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_o/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 $\beta_d = 15/15$ ψ

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 β_c = 14/15 and β_d = 15/15ψ

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	4 4500	
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-

Table 9: HSUPA UE category



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 48 of 121

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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 49 of 121

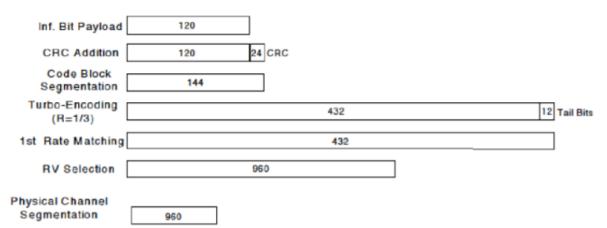


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 50 of 121

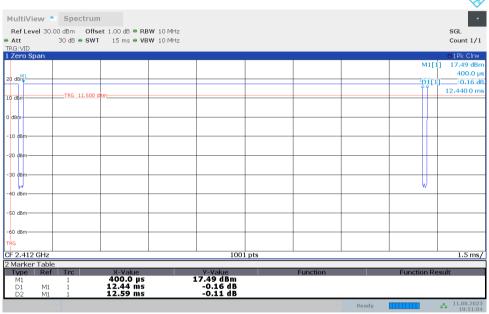
8.2.3 WiFi Test Configuration

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.

8.2.3.1 Duty cycle

Wi-Fi 2.4GHz 802.11b:

Duty cycle=98.81%



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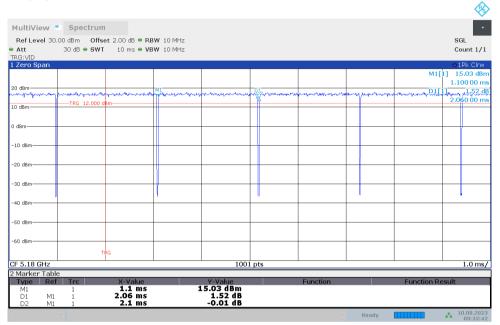


Report No.: SEWM2311000454RG09

Rev.: 01

Page: 51 of 121

Wi-Fi 5GHz 802.11a: Duty cycle=98.1%



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 52 of 121

8.2.3.2 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.

8.2.3.3 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.

8.2.3.4 Subsequent Test Configuration Procedures

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 53 of 121

band and exposure configuration.

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 54 of 121

8.2.3.5 2.4 GHz WiFi SAR Procedures

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

• 802.11b DSSS SAR Test Requirements

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

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

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

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

SAR Test Requirements for OFDM configurations

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 55 of 121

8.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

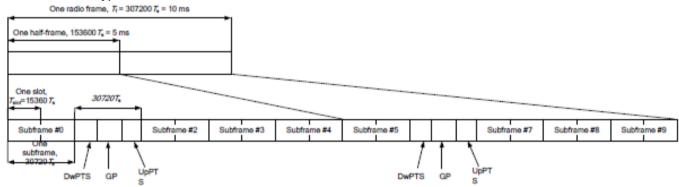
TDD LTE test consideration

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

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

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

Frame structure type 2:





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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 56 of 121

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

Special	Norn	nal cyclic prefix in	downlink	Extend	ded cyclic prefix i	n downlink
subframe	DwPTS	Up	PTS	DwPTS	Up	PTS
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts			7680.Ts		
1	19760.Ts			20480.Ts	0400 To	0500 To
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.Ts	2560.Ts
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts			20480.Ts	4204 To	5400 To
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts]	
8	24144.Ts			-	-	-
9	13168.Ts			=	-	-

Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				Sı	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

Uplink- Downlink Configurat	Downlink-to- Uplink Switch- point Periodicity				Subfra	ame N	umber					Calculated Duty
ion	point Periodicity	0	1	2	3	4	5	6	7	8	9	Cycle (%)
0	5 ms	D	S	U	U	U	D	S	J	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	C	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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 57 of 121

A) Spectrum Plots for RB Configurations

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

B) MPR

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

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

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 58 of 121

8.2.5 NR Band Test Configuration

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

	//////////////////////////////////////	LTE	Band 2	LTE	Band 6		LTE E	Band 7			LTE B	and 66			LTE B	and 38			LTE B	and 41	
	na	Ant 4	Ant 5	Ant 0	Ant 1	Ant 2	Ant 3	Ant 4	Ant 5												
_	Ant 0	×	×	×	×		√	√	√	×	×	×	×	×	×	×	×	×	×	×	×
n5	Ant 1	×	×	×	×	√	√	√	√	×	×	×	×	×	×	×	×	×	×	×	×
	Ant 2	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
n7	Ant 3	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 4	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 5	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 2	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
n38	Ant 3	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
1100	Ant 4	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 5	×	×	×	×	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 2	×	×	√	√	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
n41	Ant 3	×	×	√	√	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
11-41	Ant 4	×	×	√	√	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 5	×	×	√	√	×	×	×	×	√	×	×	√	×	×	×	×	×	×	×	×
	Ant 1	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
n78	Ant 6	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
1170	Ant 7	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Ant 8	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 59 of 121

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

	0.000		арронов од			ioming table.					
	Band		n5	n7	n38	n41	n66	n77 CP3	n77 CP2	n78 CP3	n78 CP2
		PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	DET	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	DFT-s- OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modulation		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-	16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	OFDM	64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
D	uty Cycle		100%	100%	100%	100%	100%	100%	50%	100%	50%

Dand	000							Bandwid	dth					
Band	SCS	5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
N5	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N7	15KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N66	15KHZ	Yes	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N38	30KHZ	N/A	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N41	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n77	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 60 of 121

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

a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 61 of 121

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.

Madul	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
	FI/Z DF3K	≤ 0.5 ²	≤ 0.5 ²	0 ²
DFT-s-OFDM	QPSK	≤	1	0
	16 QAM	≤	2	≤ 1
	64 QAM		≤ 2.5	
	256 QAM		≤ 4.5	
	QPSK	≤	3	≤ 1.5
CP-OFDM	16 QAM	≤	3	≤ 2
CF-OFDIVI	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

- NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n41, n77, n78. The reference power of 0 dB MPR is 26dBm.
- NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n41, n77, n78 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n41, n77, n78.
- 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:
 - 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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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 62 of 121

9 Test Result

9.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

Note:

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

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

- 2) The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
 - The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
 - The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



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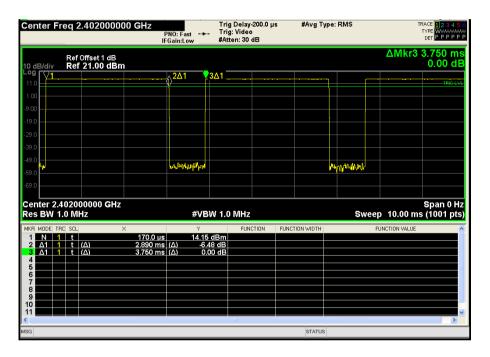
Report No.: SEWM2311000454RG09

Rev.: 01

Page: 63 of 121

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

- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- 9) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=77.07%





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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 64 of 121

9.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is select the worst presentation of the original report SEWM2304000137RG09 and this report. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - \bullet ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WiFi 2.4G:

 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:

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 65 of 121

9.2.1 SAR Result of GSM850

			GS	M850 SAR	Test Reco	rd				
				Ant 0 Tes	t Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃
				Head Te	st Data					
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.181	0.07	25.83	27.50	1.469	0.266	22.4
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.091	-0.01	25.83	27.50	1.469	0.134	22.4
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.156	-0.16	25.83	27.50	1.469	0.229	22.4
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.107	0.19	25.83	27.50	1.469	0.157	22.4
			Body wo	orn Test data	a(Separate	15mm)				
Front side	GPRS 4TS	190/836.6	1:2.075	0.155	0.03	25.83	27.50	1.469	0.228	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.174	0.07	25.83	27.50	1.469	0.256	22.4
			Hotspo	ot Test data(Separate 1	0mm)				
Front side	GPRS 4TS	190/836.6	1:2.075	0.152	0.18	25.83	27.50	1.469	0.223	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.238	-0.13	25.83	27.50	1.469	0.350	22.4
Right side	GPRS 4TS	190/836.6	1:2.075	0.176	-0.01	25.83	27.50	1.469	0.259	22.4
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.143	0.12	25.83	27.50	1.469	0.210	22.4
	•	•	,	Ant 1 Tes	t Record				•	
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°
	•			Head Te	st Data					-
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.594	0.08	23.55	24.80	1.334	0.792	22.4
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.231	0.01	23.55	24.80	1.334	0.308	22.4
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.336	-0.08	23.55	24.80	1.334	0.448	22.4
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.175	0.14	23.55	24.80	1.334	0.233	22.4
	•		Body wo	orn Test data	a(Separate	15mm)				-
Front side	GPRS 4TS	190/836.6	1:2.075	0.313	0.14	26.31	27.80	1.409	0.441	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.443	-0.08	26.31	27.80	1.409	0.624	22.4
Back side	GPRS 4TS	128/824.2	1:2.075	0.362	0.19	26.24	27.80	1.432	0.518	22.4
Back side	GPRS 4TS	251/848.8	1:2.075	0.426	0.10	26.18	27.80	1.452	0.619	22.4
			Hotspo	ot Test data(Separate 1	0mm)				
Front side	GPRS 4TS	190/836.6	1:2.075	0.265	0.16	23.55	24.80	1.334	0.353	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.387	-0.04	23.55	24.80	1.334	0.516	22.4
Left side	GPRS 4TS	190/836.6	1:2.075	0.535	-0.03	23.55	24.80	1.334	0.713	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10- g (W/kg)	Liquid Temp.(%
	•	•	Product s	pecific 10g S	SAR(Separa	ate 0mm)				
Left side	GPRS 4TS	190/836.6	1:2.075	1.410	0.08	26.31	27.80	1.409	1.987	22.4

Table 11: SAR of GSM850 for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 0

Page: 66 of 121

9.2.2 SAR Result of GSM1900

				GSM1900	SAR Test	Record				
				Ant 3	Test Rec	ord				
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test Dat	а				
Left cheek	GPRS 4TS	661/1880	1:2.075	0.486	0.17	22.22	23.50	1.343	0.653	22.2
Left tilted	GPRS 4TS	661/1880	1:2.075	0.554	0.12	22.22	23.50	1.343	0.744	22.2
Right cheek	GPRS 4TS	661/1880	1:2.075	0.711	0.16	22.22	23.50	1.343	0.955	22.2
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.683	0.14	22.18	23.50	1.355	0.926	22.2
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.671	0.12	22.15	23.50	1.365	0.916	22.2
Right tilted	GPRS 4TS	661/1880	1:2.075	0.781	0.09	22.22	23.50	1.343	1.049	22.2
Right tilted	GPRS 4TS	512/1850.2	1:2.075	0.754	0.02	22.18	23.50	1.355	1.022	22.2
Right tilted	GPRS 4TS	810/1909.8	1:2.075	0.732	0.18	22.15	23.50	1.365	0.999	22.2
			Body	worn Test	data(Sep	arate 15mm)				
Front side	GPRS 4TS	661/1880	1:2.075	0.062	0.14	22.59	24.50	1.552	0.096	22.2
Back side	GPRS 4TS	661/1880	1:2.075	0.160	-0.07	22.59	24.50	1.552	0.248	22.2
			Hot	spot Test o	data(Sepai	ate 10mm)				
Front side	GPRS 4TS	661/1880	1:2.075	0.145	-0.18	22.22	23.50	1.343	0.195	22.2
Back side	GPRS 4TS	661/1880	1:2.075	0.307	-0.12	22.22	23.50	1.343	0.412	22.2
Left side	GPRS 4TS	661/1880	1:2.075	0.052	0.01	22.22	23.50	1.343	0.070	22.2
Top side	GPRS 4TS	661/1880	1:2.075	0.405	-0.04	22.22	23.50	1.343	0.544	22.2
				Ant 4	Test Rec	ord				
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
		1			d Test Dat		T	ı		
Left cheek	GPRS 4TS	661/1880	1:2.075	0.067	0.19	22.29	24.00	1.483	0.099	22.2
Left tilted	GPRS 4TS	661/1880	1:2.075	0.000	0.02	22.29	24.00	1.483	0.000	22.2
Right cheek	GPRS 4TS	661/1880	1:2.075	0.085	-0.18	22.29	24.00	1.483	0.126	22.2
Right tilted	GPRS 4TS	661/1880	1:2.075	0.000	-0.13	22.29	24.00	1.483	0.000	22.2
		1				arate 15mm)	T	1		
Front side	GPRS 4TS	661/1880	1:2.075	0.098	-0.04	22.29	24.00	1.483	0.145	22.2
Back side	GPRS 4TS	661/1880	1:2.075	0.128	-0.17	22.29	24.00	1.483	0.190	22.2
		1			· · · · ·	ate 10mm)	T			
Front side	GPRS 4TS	661/1880	1:2.075	0.244	-0.12	22.29	24.00	1.483	0.362	22.2
Back side	GPRS 4TS	661/1880	1:2.075	0.334	-0.16	22.29	24.00	1.483	0.495	22.2
Left side	GPRS 4TS	661/1880	1:2.075	0.098	-0.07	22.29	24.00	1.483	0.145	22.2
Bottom side	GPRS 4TS	661/1880	1:2.075	0.503	-0.02	22.29	24.00	1.483	0.746	22.2

Table 12: SAR of GSM1900 for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 67 of 121

9.2.3 SAR Result of WCDMA Band II

			<u> </u>	V B2 SAR T	est Record					
				Ant 3 Tes	Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				Head Te	st Data					
Left cheek	RMC	9400/1880	1:1	0.499	0.18	17.88	19.00	1.294	0.646	22.2
Left tilted	RMC	9400/1880	1:1	0.586	0.08	17.88	19.00	1.294	0.758	22.2
Right cheek	RMC	9400/1880	1:1	0.658	0.18	17.88	19.00	1.294	0.852	22.2
Right cheek	RMC	9262/1852.4	1:1	0.714	0.08	17.87	19.00	1.297	0.926	22.2
Right cheek	RMC	9538/1907.6	1:1	0.622	-0.03	17.86	19.00	1.300	0.809	22.2
Right tilted	RMC	9400/1880	1:1	0.676	0.17	17.88	19.00	1.294	0.875	22.2
Right tilted	RMC	9262/1852.4	1:1	0.796	-0.01	17.87	19.00	1.297	1.033	22.2
Right tilted	RMC	9538/1907.6	1:1	0.639	0.09	17.86	19.00	1.300	0.831	22.2
		'	Body wo	orn Test data	a(Separate 15	mm)				
Front side	RMC	9400/1880	1:1	0.260	-0.02	23.31	25.00	1.476	0.384	22.2
Back side	RMC	9400/1880	1:1	0.565	-0.02	23.31	25.00	1.476	0.834	22.2
		'	Hotspo	t Test data	Separate 10m	nm)				
Front side	RMC	9400/1880	1:1	0.150	-0.09	17.88	19.00	1.294	0.194	22.2
Back side	RMC	9400/1880	1:1	0.372	0.16	17.88	19.00	1.294	0.481	22.2
Left side	RMC	9400/1880	1:1	0.072	-0.16	17.88	19.00	1.294	0.093	22.2
Top side	RMC	9400/1880	1:1	0.407	0.04	17.88	19.00	1.294	0.527	22.2
'		!		Ant 4 Tes					,	
		1				1				
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(°C)
Test position	Test mode		-	(W/kg)	(dB)				SAR 1- g	-
Test position Left cheek	Test mode		-	(W/kg) 1-g	(dB)				SAR 1- g	-
·		ch./Freq.	Cycle	(W/kg) 1-g Head Te	(dB) st Data	Power(dBm)	Limit(dBm)	factor	SAR 1- g (W/kg)	Temp.(℃)
Left cheek	RMC	ch./Freq. 9400/1880	Cycle 1:1	(W/kg) 1-g Head Te 0.312	(dB) st Data 0.17	Power(dBm) 22.91	Limit(dBm) 24.60	factor 1.476	SAR 1- g (W/kg)	Temp.(℃) 22.2
Left cheek Left tilted	RMC RMC	9400/1880 9400/1880	1:1 1:1	(W/kg) 1-g Head Te 0.312 0.179	(dB) st Data 0.17 0.13	22.91 22.91	24.60 24.60	1.476 1.476	SAR 1- g (W/kg) 0.460 0.264	Temp.(℃) 22.2 22.2
Left cheek Left tilted Right cheek	RMC RMC RMC	9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138	(dB) st Data 0.17 0.13 0.09	22.91 22.91 22.91 22.91 22.91	24.60 24.60 24.60	1.476 1.476 1.476	SAR 1- g (W/kg) 0.460 0.264 0.543	22.2 22.2 22.2
Left cheek Left tilted Right cheek	RMC RMC RMC	9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138	(dB) st Data 0.17 0.13 0.09 0.09	22.91 22.91 22.91 22.91 22.91	24.60 24.60 24.60	1.476 1.476 1.476	SAR 1- g (W/kg) 0.460 0.264 0.543	22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted	RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15	22.91 22.91 22.91 22.91 22.91 mm)	24.60 24.60 24.60 24.60	1.476 1.476 1.476 1.476	0.460 0.264 0.543 0.204	22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Front side	RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data 0.422 0.578	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15 -0.12	22.91 22.91 22.91 22.91 22.91 mm) 22.91 22.91	24.60 24.60 24.60 24.60 24.60	1.476 1.476 1.476 1.476	0.460 0.264 0.543 0.204	22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Front side	RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data 0.422 0.578	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15 -0.12 0.15	22.91 22.91 22.91 22.91 22.91 mm) 22.91 22.91	24.60 24.60 24.60 24.60 24.60	1.476 1.476 1.476 1.476	0.460 0.264 0.543 0.204	22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Front side Back side	RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo 1:1 1:1 Hotspo	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data 0.422 0.578 ot Test data	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15 -0.12 0.15 Separate 10m	22.91 22.91 22.91 22.91 22.91 mm) 22.91 22.91	24.60 24.60 24.60 24.60 24.60 24.60	1.476 1.476 1.476 1.476 1.476	0.460 0.264 0.543 0.204 0.623 0.853	22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Front side Back side Front side	RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo 1:1 Hotspo	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data 0.422 0.578 ot Test data 0.361	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15 -0.12 0.15 Separate 10m -0.15	22.91 22.91 22.91 22.91 22.91 mm) 22.91 22.91	24.60 24.60 24.60 24.60 24.60 24.60 24.10	1.476 1.476 1.476 1.476 1.476 1.476	0.460 0.264 0.543 0.204 0.623 0.853	22.2 22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Back side	RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo 1:1 1:1 Hotspo	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data 0.422 0.578 ot Test data 0.361 0.486	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15 -0.12 0.15 Separate 10m -0.15 -0.12	22.91 22.91 22.91 22.91 22.91 mm) 22.91 22.91 im) 19.46 19.46	24.60 24.60 24.60 24.60 24.60 24.60 21.10 21.10	1.476 1.476 1.476 1.476 1.476 1.476 1.476	0.460 0.264 0.543 0.204 0.623 0.853	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right tilted Front side Back side Front side Left side	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	1:1 1:1 1:1 1:1 Body wo 1:1 1:1 Hotspo 1:1 1:1	(W/kg) 1-g Head Te 0.312 0.179 0.368 0.138 orn Test data 0.422 0.578 ot Test data 0.361 0.486 0.157	(dB) st Data 0.17 0.13 0.09 0.09 a(Separate 15 -0.12 0.15 Separate 10m -0.15 -0.12 0.12	22.91 22.91 22.91 22.91 22.91 mm) 22.91 22.91 1m) 19.46 19.46	24.60 24.60 24.60 24.60 24.60 24.60 21.10 21.10 21.10	1.476 1.476 1.476 1.476 1.476 1.476 1.476 1.459 1.459	0.460 0.264 0.543 0.204 0.623 0.853 0.527 0.709 0.229	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 68 of 121

9.2.4 SAR Result of WCDMA Band IV

				W B4 SAR T	est Record					
				Ant 2 Tes	t Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	(dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
	1	I		Head Te				T		
Left cheek	RMC	1412/1732.4	1:1	0.615	0.05	19.53	20.70	1.309	0.805	22.3
Left cheek	RMC	1312/1712.4	1:1	0.594	0.05	19.51	20.70	1.315	0.781	22.3
Left cheek	RMC	1513/1752.6	1:1	0.603	0.05	19.50	20.70	1.318	0.795	22.3
Left tilted	RMC	1412/1732.4	1:1	0.145	-0.05	19.53	20.70	1.309	0.190	22.3
Right cheek	RMC	1412/1732.4	1:1	0.377	0.14	19.53	20.70	1.309	0.494	22.3
Right tilted	RMC	1412/1732.4	1:1	0.085	0.12	19.53	20.70	1.309	0.111	22.3
Front oids	RMC	4440/4720 4		worn Test dat	0.04	,	20.70	1 200	0.420	22.3
Front side	RMC	1412/1732.4	1:1 1:1	0.099 0.145	-0.09	19.53 19.53	20.70	1.309	0.130	
Back side	RIVIC	1412/1732.4					20.70	1.309	0.190	22.3
Front side	RMC	1412/1732.4	1:1	pot Test data 0.197	-0.17	mm) 19.53	20.70	1.309	0.258	22.3
Back side	RMC	1412/1732.4	1:1	0.197	0.05	19.53	20.70	1.309	0.258	22.3
Right side	RMC	1412/1732.4	1:1	0.273	0.05	19.53	20.70	1.309	0.623	22.3
Night side	KIVIC	1412/1732.4	1.1	Ant 3 Tes		19.55	20.70	1.309	0.023	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(°C)
	•	-		Head Te	est Data			•		
Left cheek	RMC	1412/1732.4	1:1	0.398	-0.09	17.12	18.50	1.374	0.547	22.3
Left tilted	RMC	1412/1732.4	1:1	0.561	0.16	17.12	18.50	1.374	0.771	22.3
Right cheek	RMC	1412/1732.4	1:1	0.722	-0.15	17.12	18.50	1.374	0.992	22.3
Right cheek	RMC	1312/1712.4	1:1	0.685	-0.03	17.08	18.50	1.387	0.950	22.3
Right cheek	RMC	1513/1752.6	1:1	0.746	-0.12	16.93	18.50	1.435	1.071	22.3
Right tilted	RMC	1412/1732.4	1:1	0.658	0.03	17.12	18.50	1.374	0.904	22.3
Right tilted	RMC	1312/1712.4	1:1	0.624	0.07	17.08	18.50	1.387	0.865	22.3
Right tilted	RMC	1513/1752.6	1:1	0.690	-0.02	16.93	18.50	1.435	0.990	22.3
			Body	worn Test dat	a(Separate 1	5mm)				
Front side	RMC	1412/1732.4	1:1	0.402	-0.04	23.32	25.00	1.472	0.592	22.3
Back side	RMC	1412/1732.4	1:1	0.649	-0.04	23.32	25.00	1.472	0.956	22.3
Back side	RMC	1312/1712.4	1:1	0.679	0.08	23.24	25.00	1.500	1.018	22.3
Back side	RMC	1513/1752.6	1:1	0.713	0.05	23.23	25.00	1.503	1.072	22.3
	1			pot Test data				T		
Front side	RMC	1412/1732.4	1:1	0.175	0.11	17.12	18.50	1.374		22.3
Back side		1412/1732.4	1:1	0.375	-0.08	17.12	18.50		0.515	22.3
Left side	RMC	1412/1732.4	1:1	0.069	-0.18	17.12	18.50	1.374	0.095	22.3
Top side	RMC	1412/1732.4	1:1	0.384	0.16	17.12	18.50	1.374	0.528	22.3
Test position	Test mode	Test ch./Freq.	Duty Cycle	Ant 4 Tes SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃
				Head Te	est Data					
Left cheek	RMC	1412/1732.4	1:1	0.122	-0.13	23.00	24.60	1.445	0.176	22.3
Left tilted	RMC	1412/1732.4	1:1	0.088	-0.04	23.00	24.60	1.445	0.127	22.3
Right cheek	RMC	1412/1732.4	1:1	0.151	-0.09	23.00	24.60	1.445	0.218	22.3



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 69 of 121

			Body	worn Test dat	a(Separate 1	5mm)						
Front side	RMC	1412/1732.4	1:1	0.246	-0.10	23.00	24.60	1.445	0.356	22.3		
Back side	RMC	1412/1732.4	1:1	0.315	-0.11	23.00	24.60	1.445	0.455	22.3		
			Hots	pot Test data	(Separate 10	mm)						
Front side	RMC	1412/1732.4	1:1	0.323	0.17	21.54	23.10	1.432	0.463	22.3		
Back side	RMC	1412/1732.4	1:1	0.434	-0.08	21.54	23.10	1.432	0.622	22.3		
Left side	RMC	1412/1732.4	1:1	0.125	-0.05	21.54	23.10	1.432	0.179	22.3		
Bottom side	RMC	1412/1732.4	1:1	0.584	0.17	21.54	23.10	1.432	0.836	22.3		
Bottom side	RMC	1312/1712.4	1:1	0.496	-0.06	21.49	23.10	1.449	0.719	22.3		
Bottom side	RMC	1513/1752.6	1:1	0.656	0.02	21.53	23.10	1.435	0.942	22.3		
	Ant 5 Test Record											
									Scaled			
Test position	Test mode	Test	Duty		Power drift				SAR 1-	Liquid		
rest position	restinode	ch./Freq.	Cycle	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	g (W/kg)	Temp.(℃)		
				Head Te	est Data							
Left cheek	RMC	1412/1732.4	1:1	0.156	-0.11	19.66	20.60	1.242	0.194	22.3		
Left tilted	RMC	1412/1732.4	1:1	0.122	-0.07	19.66	20.60	1.242	0.151	22.3		
Right cheek	RMC	1412/1732.4	1:1	0.681	0.16	19.66	20.60	1.242	0.846	22.3		
Right cheek	RMC	1312/1712.4	1:1	0.561	-0.11	19.58	20.60	1.265	0.710	22.3		
Right cheek	RMC	1513/1752.6	1:1	0.810	0.16	19.61	20.60	1.256	1.017	22.3		
Right cheek-repeated	RMC	1513/1752.6	1:1	0.806	-0.01	19.61	20.60	1.256	1.012	22.3		
Right tilted	RMC	1412/1732.4	1:1	0.278	0.17	19.66	20.60	1.242	0.345	22.3		
			Body	worn Test dat	a(Separate 1	5mm)						
Front side	RMC	1412/1732.4	1:1	0.084	-0.19	19.66	20.60	1.242	0.104	22.3		
Back side	RMC	1412/1732.4	1:1	0.165	0.01	19.66	20.60	1.242	0.205	22.3		
			Hots	pot Test data	(Separate 10	mm)						
Front side	RMC	1412/1732.4	1:1	0.135	0.04	19.66	20.60	1.242	0.168	22.3		
Back side	RMC	1412/1732.4	1:1	0.299	-0.19	19.66	20.60	1.242	0.371	22.3		
Left side	RMC	1412/1732.4	1:1	0.297	0.12	19.66	20.60	1.242	0.369	22.3		
Top side	RMC	1412/1732.4	1:1	0.042	0.15	19.66	20.60	1.242	0.052	22.3		

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated	
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)	
Right cheek	1513/1752.6	0.810	0.806	1.004962779	N/A	N/A	

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 70 of 121

9.2.5 SAR Result of WCDMA Band V

W B5 SAR Test Record												
				Ant 0 To	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 1-g (W/kg)	Liquid Temp.(℃)		
				Head [*]	Test Data							
Left cheek	RMC	4182/836.4	1:1	0.188	-0.09	23.50	25.00	1.413	0.266	22.4		
Left tilted	RMC	4182/836.4	1:1	0.114	0.02	23.50	25.00	1.413	0.161	22.4		
Right cheek	RMC	4182/836.4	1:1	0.228	-0.02	23.50	25.00	1.413	0.322	22.4		
Right tilted	RMC	4182/836.4	1:1	0.150	0.10	23.50	25.00	1.413	0.212	22.4		
			Body	worn Test d	ata(Separa	te 15mm)						
Front side	RMC	4182/836.4	1:1	0.209	0.12	23.50	25.00	1.413	0.295	22.4		
Back side	RMC	4182/836.4	1:1	0.252	0.18	23.50	25.00	1.413	0.356	22.4		
			Hots	spot Test da	ta(Separate	e 10mm)						
Front side	RMC	4182/836.4	1:1	0.386	0.01	23.50	25.00	1.413	0.545	22.4		
Back side	RMC	4182/836.4	1:1	0.472	0.00	23.50	25.00	1.413	0.667	22.4		
Right side	RMC	4182/836.4	1:1	0.431	-0.07	23.50	25.00	1.413	0.609	22.4		
Bottom side	RMC	4182/836.4	1:1	0.278	0.03	23.50	25.00	1.413	0.393	22.4		
	•			Ant 1 To	est Record	İ		•		•		
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)		
				_	Test Data				(- 3)			
Left cheek	RMC	4182/836.4	1:1	0.738	0.05	21.07	22.00	1.239	0.914	22.4		
Left cheek	RMC	4132/826.4	1:1	0.554	-0.15	21.03	22.00	1.250	0.693	22.4		
Left cheek	RMC	4233/846.6	1:1	0.763	-0.01	21.02	22.00	1.253	0.956	22.4		
Left tilted	RMC								0.936			
Len illea	INIVIO	4182/836.4	1:1	0.101	-0.14	21.07	22.00	1.239	0.125	22.4		
	RMC	4182/836.4 4182/836.4	1:1 1:1	0.101 0.422				1.239				
Right cheek Right tilted		4182/836.4			-0.14	21.07	22.00	1.239 1.239	0.125	22.4 22.4		
Right cheek	RMC	 	1:1 1:1	0.422 0.082	-0.14 -0.06 0.10	21.07 21.07 21.07	22.00 22.00	1.239	0.125 0.523	22.4		
Right cheek	RMC	4182/836.4	1:1 1:1	0.422	-0.14 -0.06 0.10	21.07 21.07 21.07	22.00 22.00	1.239 1.239	0.125 0.523	22.4 22.4		
Right cheek Right tilted	RMC RMC	4182/836.4 4182/836.4	1:1 1:1 Body	0.422 0.082 worn Test d	-0.14 -0.06 0.10 ata(Separa	21.07 21.07 21.07 te 15mm)	22.00 22.00 22.00	1.239 1.239 1.239	0.125 0.523 0.102	22.4 22.4 22.4		
Right cheek Right tilted Front side	RMC RMC	4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body 1:1 1:1	0.422 0.082 worn Test d 0.259	-0.14 -0.06 0.10 ata(Separa 0.04 -0.11	21.07 21.07 21.07 te 15mm) 21.38 21.38	22.00 22.00 22.00 23.00	1.239 1.239 1.239 1.452	0.125 0.523 0.102 0.376	22.4 22.4 22.4 22.4		
Right cheek Right tilted Front side	RMC RMC	4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body 1:1 1:1	0.422 0.082 worn Test d 0.259 0.389	-0.14 -0.06 0.10 ata(Separa 0.04 -0.11	21.07 21.07 21.07 te 15mm) 21.38 21.38	22.00 22.00 22.00 23.00	1.239 1.239 1.239 1.452	0.125 0.523 0.102 0.376	22.4 22.4 22.4 22.4		
Right cheek Right tilted Front side Back side	RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body 1:1 1:1 Hots	0.422 0.082 worn Test d 0.259 0.389 spot Test da	-0.14 -0.06 0.10 ata(Separa 0.04 -0.11 ta(Separate	21.07 21.07 21.07 te 15mm) 21.38 21.38 e 10mm)	22.00 22.00 22.00 23.00 23.00	1.239 1.239 1.239 1.452 1.452	0.125 0.523 0.102 0.376 0.565	22.4 22.4 22.4 22.4 22.4		
Right cheek Right tilted Front side Back side Front side	RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body 1:1 1:1 Hots	0.422 0.082 worn Test d 0.259 0.389 spot Test da 0.437	-0.14 -0.06 0.10 ata(Separa 0.04 -0.11 ta(Separate -0.02	21.07 21.07 21.07 te 15mm) 21.38 21.38 21.07	22.00 22.00 22.00 23.00 23.00 22.00	1.239 1.239 1.239 1.452 1.452	0.125 0.523 0.102 0.376 0.565	22.4 22.4 22.4 22.4 22.4 22.4		
Right cheek Right tilted Front side Back side Front side Back side	RMC RMC RMC RMC RMC	4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4 4182/836.4	1:1 1:1 Body 1:1 1:1 Hots 1:1	0.422 0.082 worn Test d 0.259 0.389 spot Test da 0.437 0.601	-0.14 -0.06 0.10 ata(Separa 0.04 -0.11 ta(Separate -0.02 0.09	21.07 21.07 21.07 te 15mm) 21.38 21.38 21.07 21.07	22.00 22.00 22.00 23.00 23.00 22.00 22.00	1.239 1.239 1.239 1.452 1.452 1.239	0.125 0.523 0.102 0.376 0.565 0.541 0.745	22.4 22.4 22.4 22.4 22.4 22.4 22.4		





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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 71 of 121

9.2.6 SAR Result of LTE Band 2

					d 2 SAR T		ord				
				An	t 3 Test R	ecord	T.				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test Dat	a(1RB)					
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.413	0.19	18.88	20.00	1.294	0.535	22.5
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.509	-0.09	18.88	20.00	1.294	0.659	22.5
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.642	0.00	18.88	20.00	1.294	0.831	22.5
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.648	-0.06	18.77	20.00	1.327	0.860	22.5
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.574	0.06	18.79	20.00	1.321	0.758	22.5
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.641	-0.17	18.88	20.00	1.294	0.830	22.5
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.627	-0.05	18.77	20.00	1.327	0.832	22.5
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.690	-0.09	18.79	20.00	1.321	0.912	22.5
				Head	Test Data	50%RB)					
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.431	0.06	18.84	20.00	1.306	0.563	22.5
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.519	0.04	18.84	20.00	1.306	0.678	22.5
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.717	-0.10	18.84	20.00	1.306	0.937	22.5
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.739	-0.16	18.73	20.00	1.340	0.990	22.5
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.566	0.00	18.72	20.00	1.343	0.760	22.5
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.833	-0.01	18.84	20.00	1.306	1.088	22.5
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.642	0.19	18.73	20.00	1.340	0.860	22.5
Right tilted	20	QPSK 50_0	19100/1900	1:1	0.553	-0.11	18.72	20.00	1.343	0.743	22.5
				Head	Test Data(100%RB)					
Right cheek	20	QPSK 100_0	18900/1880	1:1	0.509	-0.03	18.77	20.00	1.327	0.676	22.5
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.600	-0.10	18.77	20.00	1.327	0.796	22.5
	•		Body	worn Tes	st data(Sep	arate 15r	mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.340	0.01	23.85	25.50	1.462	0.497	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.692	0.02	23.85	25.50	1.462	1.012	22.5
Back side	20	QPSK 1_0	18700/1860	1:1	0.631	-0.05	23.83	25.50	1.469	0.927	22.5
Back side	20	QPSK 1_0	19100/1900	1:1	0.677	0.07	23.76	25.50	1.493	1.011	22.5
			Body wo	orn Test	data(Sepa	rate 15mi	m 50%RB)				
Front side	20	QPSK 50_0	18900/1880	1:1	0.228	-0.09	22.80	24.50	1.479	0.337	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.565	0.09	22.80	24.50	1.479	0.836	22.5
Back side	20	QPSK 50_0	18700/1860	1:1	0.513	0.01	22.71	24.50	1.510	0.775	22.5
Back side	20	QPSK 50_0	19100/1900	1:1	0.544	-0.12	22.68	24.50	1.521	0.827	22.5
			Body wo	rn Test o	data(Separ	ate 15mn	n 100%RB)				
Back side	20	QPSK 100_0		1:1	0.541	0.03	22.73	24.50	1.503	0.813	22.5
	•		Hots	oot Test	data(Sepa	rate 10mi	m 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.187	0.04	18.88	20.00	1.294	0.242	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.359	-0.06	18.88	20.00	1.294	0.465	22.5
Left side	20	QPSK 1_0	18900/1880	1:1	0.060	-0.03	18.88	20.00	1.294	0.078	22.5
Top side	20	QPSK 1_0	18900/1880	1:1	0.370	0.14	18.88	20.00	1.294	0.479	22.5
·		. – .	Hotspo		ata(Separa	te 10mm					
Front side	20	QPSK 50_0	18900/1880	1:1	0.145	0.08	18.84	20.00	1.306	0.189	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.394	-0.09	18.84	20.00	1.306	0.515	22.5
Left side	20	QPSK 50_0	18900/1880	1:1	0.059	-0.02	18.84	20.00	1.306	0.077	22.5
Top side	20	QPSK 50_0	18900/1880	1:1	0.376	-0.05	18.84	20.00	1.306	0.491	22.5
·	•				t 4 Test R		,				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 72 of 121

Left cheek	20	QPSK 1_0	18900/1880	1:1	0.240	-0.10	23.79	25.00	1.321	0.317	22.5
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.189	0.02	23.79	25.00	1.321	0.250	22.5
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.376	-0.19	23.79	25.00	1.321	0.497	22.5
Right cheek-ENDC	20	QPSK 1_0	18900/1880	1:1	0.233	-0.05	19.37	20.40	1.268	0.295	22.5
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.131	-0.02	23.79	25.00	1.321	0.173	22.5
				Head	Test Data(50%RB)					
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.185	0.14	22.77	24.00	1.327	0.246	22.5
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.154	0.15	22.77	24.00	1.327	0.204	22.5
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.258	-0.03	22.77	24.00	1.327	0.342	22.5
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.073	0.06	22.77	24.00	1.327	0.097	22.5
			Body	worn Tes	st data(Sep	arate 15r	nm 1RB)		,		
Front side	20	QPSK 1 0	18900/1880	1:1	0.536	0.07	23.79	25.00	1.321	0.708	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.683	-0.04	23.79	25.00	1.321	0.902	22.5
Back side	20	QPSK 1_0	18700/1860	1:1	0.631	0.09	23.63	25.00	1.371	0.865	22.5
Back side	20	QPSK 1_0	19100/1900	1:1	0.688	0.07	23.67	25.00	1.358	0.935	22.5
Back side-ENDC	20	QPSK 1_0	18900/1880	1:1	0.421	0.14	19.37	20.40	1.268	0.534	22.5
Back oldo ENDO		GI GIT I_0			data(Sepa			20.10	1.200	0.001	LL.U
Front side	20	QPSK 50_0	18900/1880	1:1	0.404	0.01	22.77	24.00	1.327	0.536	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.540	-0.01	22.77	24.00	1.327	0.717	22.5
Dack side	20	Q1 01(30_0					n 100%RB)	24.00	1.021	0.7 17	22.0
Back side	20	QPSK 100_0		1:1	0.539	0.07	22.66	24.00	1.361	0.734	22.5
Dack side	20	QF3K 100_0			data(Sepa			24.00	1.301	0.734	22.0
Front oids	20	ODCK 1 0					, ,	22.00	4.000	0.544	22.5
Front side	20	QPSK 1_0	18900/1880	1:1	0.431	0.01	20.99	22.00	1.262	0.544	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.564	0.00	20.99	22.00	1.262	0.712	22.5
Left side	20	QPSK 1_0	18900/1880	1:1	0.165	-0.13	20.99	22.00	1.262	0.208	22.5
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.843	0.04	20.99	22.00	1.262	1.064	22.5
Bottom side-repeated	20	QPSK 1_0	18900/1880	1:1	0.839	0.02	20.99	22.00	1.262	1.059	22.5
Bottom side-ENDC	20	QPSK 1_0	18900/1880	1:1	0.453	-0.01	16.41	17.40	1.256	0.569	22.5
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.768	-0.03	20.85	22.00	1.303	1.001	22.5
Bottom side	20	QPSK 1_0	19100/1900	1:1	0.791	0.01	20.86	22.00	1.300	1.028	22.5
					ata(Separa						
Front side	20	QPSK 50_0	18900/1880	1:1	0.455	0.11	20.93	22.00	1.279	0.582	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.561	-0.05	20.93	22.00	1.279	0.718	22.5
Left side	20	QPSK 50_0	18900/1880	1:1	0.185	0.13	20.93	22.00	1.279	0.237	22.5
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.830	0.02	20.93	22.00	1.279	1.062	22.5
Bottom side	20	QPSK 50_0	18700/1860	1:1	0.764	0.09	20.76	22.00	1.330	1.016	22.5
Bottom side	20	QPSK 50_0	19100/1900	1:1	0.782	0.03	20.86	22.00	1.300	1.017	22.5
		T = = =			ta(Separat				ı	1	
Bottom side	20	QPSK 100_0	18900/1880	1:1	0.805	0.01	20.84	22.00	1.306	1.051	22.5
	_			Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)		factor	SAR 10-g	Temp.(℃)
			Drodust	_	10-g	(ab)	, ,			(W/kg)	
Pottom side	20	ODSK 4 O			10g SAR(S	r -		22.00	1 252	2 200	22.5
Bottom side Bottom side-ENDC	20	QPSK 1_0	18900/1880	1:1	1.890	0.07	22.02	23.00	1.253	2.368	22.5
	20	QPSK 1_0	18900/1880	1:1	1.430	0.09	17.48	18.40	1.236	1.767	22.5
Bottom side	20	QPSK 1_0	18700/1860	1:1	1.740	0.17	21.95	23.00	1.274	2.216	22.5
Bottom side	20	QPSK 1_0	19100/1900	1:1	1.830	-0.15	21.94	23.00	1.276	2.336	22.5
D.H	00	0001/ 50 5					nm 50%RB)	00.00	4.050	0.000	00.5
Bottom side	20	QPSK 50_0	18900/1880	1:1	1.830	0.03	22.01	23.00	1.256	2.299	22.5
Bottom side	20	QPSK 50_0	18700/1860	1:1	1.680	0.17	21.97	23.00	1.268	2.130	22.5
Bottom side	20	QPSK 50_0	19100/1900	1:1	1.730	-0.14	21.91	23.00	1.285	2.224	22.5
		I					m 100%RB)		l		
Bottom side	20	QPSK 100_0	18900/1880	1:1	1.740	-0.16	21.89	23.00	1.291	2.247	22.5
				An	t 5 Test Re	ecord					



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 73 of 121

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	•			Hea	d Test Dat	a(1RB)					
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.129	0.15	16.17	17.50	1.358	0.175	22.5
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.040	-0.02	16.17	17.50	1.358	0.054	22.5
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.452	-0.04	16.17	17.50	1.358	0.614	22.5
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.142	-0.08	16.17	17.50	1.358	0.193	22.5
				Head	Test Data(50%RB)					
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.117	0.16	15.91	17.50	1.442	0.169	22.5
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.038	-0.11	15.91	17.50	1.442	0.055	22.5
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.427	0.05	15.91	17.50	1.442	0.616	22.5
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.135	-0.16	15.91	17.50	1.442	0.195	22.5
			Body	worn Tes	st data(Sep	arate 15r	mm 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.077	0.01	20.63	21.50	1.222	0.094	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.104	0.09	20.63	21.50	1.222	0.127	22.5
			Body w	orn Test	data(Sepa	rate 15mi	m 50%RB)				
Front side	20	QPSK 50_0	18900/1880	1:1	0.068	-0.09	20.49	21.50	1.262	0.086	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.108	0.19	20.49	21.50	1.262	0.136	22.5
			Hots	pot Test	data(Sepa	rate 10mi	m 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.070	-0.05	16.17	17.50	1.358	0.095	22.5
Back side	20	QPSK 1_0	18900/1880	1:1	0.098	-0.14	16.17	17.50	1.358	0.133	22.5
Left side	20	QPSK 1_0	18900/1880	1:1	0.166	-0.02	16.17	17.50	1.358	0.225	22.5
Top side	20	QPSK 1_0	18900/1880	1:1	0.026	0.13	16.17	17.50	1.358	0.035	22.5
			Hotspo	ot Test da	ata(Separa	te 10mm	50%RB)				
Front side	20	QPSK 50_0	18900/1880	1:1	0.062	-0.03	15.91	17.50	1.442	0.089	22.5
Back side	20	QPSK 50_0	18900/1880	1:1	0.095	0.07	15.91	17.50	1.442	0.137	22.5
Left side	20	QPSK 50_0	18900/1880	1:1	0.144	0.16	15.91	17.50	1.442	0.208	22.5
Top side	20	QPSK 50_0	18900/1880	1:1	0.019	-0.07	15.91	17.50	1.442	0.027	22.5

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	18900/1880	0.843	0.839	1.00476758	N/A	N/A

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



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

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

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



Report No.: SEWM2311000454RG09

Rev.: 01 Page: 74 of 121

927 SAR Result of LTF Band 4

				LTE Ban	d 4 SAR 1	est Reco	rd				
				An	t 2 Test R	ecord					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test Dat		•				
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.571	0.09	19.37	20.80	1.390	0.794	22.4
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.149	0.07	19.37	20.80	1.390	0.207	22.4
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.505	0.02	19.37	20.80	1.390	0.702	22.4
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.119	0.16	19.37	20.80	1.390	0.165	22.4
				Head	Test Data	(50%RB)	-				
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.536	-0.19	19.28	20.80	1.419	0.761	22.4
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.120	0.07	19.28	20.80	1.419	0.170	22.4
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.397	0.00	19.28	20.80	1.419	0.563	22.4
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.096	0.03	19.28	20.80	1.419	0.136	22.4
			Bod	y worn Tes	st data(Ser	arate 15r	nm 1RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.099	-0.15	19.37	20.80	1.390	0.138	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.128	-0.16	19.37	20.80	1.390	0.178	22.4
			Body	worn Test	data(Sepa	rate 15mr	m 50%RB)				
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.086	0.02	19.28	20.80	1.419	0.122	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.127	-0.07	19.28	20.80	1.419	0.180	22.4
			Ho	tspot Test	data(Sepa	rate 10mr	n 1RB)				•
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.165	-0.15	19.37	20.80	1.390	0.229	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.252	-0.17	19.37	20.80	1.390	0.350	22.4
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.410	-0.08	19.37	20.80	1.390	0.570	22.4
			Hots	pot Test da	ata(Separa	te 10mm	50%RB)				
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.127	0.01	19.28	19.80	1.127	0.143	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.212	0.18	19.28	19.80	1.127	0.239	22.4
Right side	20	QPSK 50_0	20175/1732.5	1:1	0.338	-0.04	19.28	19.80	1.127	0.381	22.4
				An	t 3 Test R	ecord					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test Dat	a(1RB)					
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.495	-0.12	17.35	19.00	1.462	0.724	22.4
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.574	0.09	17.35	19.00	1.462	0.839	22.4
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.690	-0.05	17.35	19.00	1.462	1.009	22.4
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.642	-0.19	17.35	19.00	1.462	0.939	22.4
				Head	Test Data	(50%RB)				1	
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.451	-0.06	17.29	19.00	1.483	0.669	22.4
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.518	0.04	17.29	19.00	1.483	0.768	22.4
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.642	0.19	17.29	19.00	1.483	0.952	22.4
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.606	-0.08	17.29	19.00	1.483	0.898	22.4
				Head	Test Data(100%RB)				1	
Right cheek	20	QPSK 100_0	20175/1732.5	1:1	0.617	0.02	17.26	19.00	1.493	0.921	22.4
Right tilted	20	QPSK 100_0	20175/1732.5	1:1	0.609	0.07	17.26	19.00	1.493	0.909	22.4
				y worn Tes			nm 1RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.424	-0.12	22.87	24.50	1.455	0.617	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.639	-0.03	22.87	24.50	1.455	0.930	22.4
			Body	worn Test	data(Sepa	rate 15mr	n 50%RB)				1
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.354	-0.14	22.72	24.50	1.507	0.533	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.541	-0.09	22.72	24.50	1.507	0.815	22.4
			Body v	worn Test	data(Sepai	ate 15mm	n 100%RB)				



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SEWM2311000454RG09 Report No.:

Rev.: Page: 75 of 121

Back side	20	QPSK 100_0	20175/1732.5	1:1	0.571	0.10	22.65	24.50	1.531	0.874	22.4
			Ho	tspot Test	data(Sepa	rate 10mr	n 1RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.055	-0.01	13.97	15.50	1.422	0.078	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.133	-0.16	13.97	15.50	1.422	0.189	22.4
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.000	0.18	13.97	15.50	1.422	0.000	22.4
Top side	20	QPSK 1_0	20175/1732.5	1:1	0.127	0.17	13.97	15.50	1.422	0.181	22.4
	•		Hots	pot Test da	ata(Separa	ate 10mm	50%RB)		1	1	,
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.056	-0.05	13.95	15.50	1.429	0.080	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.135	-0.12	13.95	15.50	1.429	0.193	22.4
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.009	0.16	13.95	15.50	1.429	0.013	22.4
Top side	20	QPSK 50_0	20175/1732.5	1:1	0.126	-0.10	13.95	15.50	1.429	0.180	22.4
		1	1	An	t 4 Test R		1				
Tast was it is w	D\A/	Took was als	Tast als /Fusas	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled SAR 1-g	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg) 1-g	drift (dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(°C)
				Hea	d Test Dat					(VV/Kg)	
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.137	0.12	23.41	24.70	1.346	0.184	22.4
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.092	0.02	23.41	24.70	1.346	0.124	22.4
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.178	0.07	23.41	24.70	1.346	0.240	22.4
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.101	0.04	23.41	24.70	1.346	0.136	22.4
. a.g. a. a.a.e.		Q. O o	2011 0/11 0210		Test Data					000	
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.099	0.01	22.27	23.70	1.390	0.138	22.4
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.065	0.14	22.27	23.70	1.390	0.090	22.4
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.150	0.13	22.27	23.70	1.390	0.208	22.4
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.077	-0.07	22.27	23.70	1.390	0.107	22.4
U		_		y worn Tes	st data(Ser	parate 15r	nm 1RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.241	0.00	23.41	24.70	1.346	0.324	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.319	-0.18	23.41	24.70	1.346	0.429	22.4
		•	Body	worn Test	data(Sepa	rate 15mr	n 50%RB)		·	ı.	'
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.205	-0.12	22.27	23.70	1.390	0.285	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.261	0.15	22.27	23.70	1.390	0.363	22.4
			Ho	tspot Test	data(Sepa	rate 10mr	n 1RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.271	-0.09	22.03	23.20	1.309	0.355	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.366	-0.04	22.03	23.20	1.309	0.479	22.4
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.093	0.19	22.03	23.20	1.309	0.122	22.4
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.507	-0.03	22.03	23.20	1.309	0.664	22.4
			Hots	pot Test da	ata(Separa	ate 10mm	50%RB)				
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.269	0.08	21.99	23.20	1.321	0.355	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.358	0.18	21.99	23.20	1.321	0.473	22.4
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.102	0.05	21.99	23.20	1.321	0.135	22.4
Bottom side	20	QPSK 50_0	20175/1732.5	1:1	0.531	-0.01	21.99	23.20	1.321	0.702	22.4
		1	1	An	t 5 Test R		1				
Took manifica	DIA	Toot	Took ok /Fran	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg) 1-g	drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1-g (W/kg)	Temp.(℃)
	-			Нез	d Test Dat					(TT/NG)	
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.149	-0.09	19.10	20.40	1.349	0.201	22.4
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.149	-0.09	19.10	20.40	1.349	0.201	22.4
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.495	-0.17	19.10	20.40	1.349	0.668	22.4
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.455	-0.01	19.10	20.40	1.349	0.212	22.4
. ag. a tatod					Test Data			_5.10		V.= 1.E	
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.148	-0.19	19.06	20.40	1.361	0.201	22.4
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.078	0.12	19.06	20.40	1.361	0.106	22.4
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.554	0.10	19.06	20.40	1.361	0.754	22.4
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.150	-0.17	19.06	20.40	1.361	0.204	22.4



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 76 of 121

			Boo	ly worn Tes	st data(Ser	parate 15m	nm 1RR)				
Front side	20	QPSK 1 0	20175/1732.5	1:1	0.056	0.05	20.24	21.40	1.306	0.073	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.125	-0.10	20.24	21.40	1.306	0.163	22.4
			Body	worn Test	data(Sepa	rate 15mn	n 50%RB)	I.			
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.062	-0.06	20.17	21.40	1.327	0.082	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.128	0.14	20.17	21.40	1.327	0.170	22.4
			Ho	tspot Test	data(Sepa	rate 10mn	n 1RB)				
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.076	-0.16	19.10	20.40	1.349	0.103	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.189	-0.13	19.10	20.40	1.349	0.255	22.4
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.172	0.04	19.10	20.40	1.349	0.232	22.4
Top side	20	QPSK 1_0	20175/1732.5	1:1	0.000	-0.16	19.10	20.40	1.349	0.000	22.4
			Hots	pot Test da	ata(Separa	ate 10mm	50%RB)				
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.078	-0.05	19.06	20.40	1.361	0.106	22.4
Back side	20	QPSK 50_0	20175/1732.5	1:1	0.100	-0.14	19.06	20.40	1.361	0.136	22.4
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.184	-0.11	19.06	20.40	1.361	0.251	22.4
Top side	20	QPSK 50_0	20175/1732.5	1:1	0.000	0.19	19.06	20.40	1.361	0.000	22.4

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 77 of 121

9.2.8 SAR Result of LTE Band 7

			LTE Band			cord					
	1	1	Ant 2	2 Test R	ecord				1	1	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃
	1		Head '	Test Da	ta(1RB)				•	•	
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.415	-0.12	17.35	18.30	1.245	0.516	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.142	-0.16	17.35	18.30	1.245	0.177	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.635	0.12	17.35	18.30	1.245	0.790	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.082	0.04	17.35	18.30	1.245	0.102	22.5
	1		Head Te		,	r e	Т		1		
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.396	0.14	17.17	18.30	1.297	0.514	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.141	-0.08	17.17	18.30	1.297	0.183	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.690	-0.02	17.17	18.30	1.297	0.895	22.5
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.612	0.07	17.11	18.30	1.315	0.805	22.5
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.644	0.02	17.07	18.30	1.327	0.855	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.672	-0.01	17.17	18.30	1.297	0.872	22.5
1.6.1.1	100	0001/50 0	Head Te				47.47	10.00	4.007	0044	
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.651	0.01	17.17	18.30	1.297	0.844	22.5
For all state	100	00014.0	Body worn Test of					40.00	4 005	0.040	00.5
Front side	20	QPSK 1_0	21100/2535	1:1	0.165	0.15	18.21	19.30	1.285	0.212	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.256	0.03	18.21	19.30	1.285	0.329	22.5
Frank side	T 00	ODCK 50. 0	Body worn Test da			1		40.00	4 045	0.000	20.5
Front side	20	QPSK 50_0	21100/2535	1:1	0.174	0.10	18.11	19.30	1.315	0.229	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.263	-0.13	18.11	19.30	1.315	0.346	22.5
Cront oids	120	ODCK 4 O	Hotspot Test da				·	10.20	1 245	0.227	22.5
Front side	20	QPSK 1_0 QPSK 1_0	21100/2535	1:1	0.263	0.00	17.35	18.30	1.245	0.327	22.5
Back side Right side	20	QPSK 1_0	21100/2535 21100/2535	1:1 1:1	0.369	-0.04 -0.09	17.35 17.35	18.30 18.30	1.245 1.245	0.459 0.852	22.5 22.5
	20	QPSK 1_0	20850/2510	1:1	0.648	0.03	17.35	18.30	1.245	0.812	22.5
Right side Right side	20	QPSK 1_0	21350/2560	1:1	0.674	0.03	17.32	18.30	1.262	0.850	22.5
Right side	20	QFSK I_U	Hotspot Test data					10.30	1.202	0.650	22.5
Front side	20	QPSK 50_0	21100/2535	1:1	0.259	0.19	17.17	18.30	1.297	0.336	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.239	0.00	17.17	18.30	1.297	0.506	22.5
Right side	20	QPSK 50_0	21100/2535	1:1	0.627	-0.04	17.17	18.30	1.297	0.813	22.5
Right side	20	QPSK 50_0	20850/2510	1:1	0.593	-0.04	17.17	18.30	1.315	0.780	22.5
Right side	20	QPSK 50_0	21350/2560	1:1	0.595	0.07	17.11	18.30	1.327	0.790	22.5
Right side	20	QF3N 30_0	Hotspot Test data					10.30	1.321	0.790	22.5
Right side	20	QPSK 100_0		1:1	0.613	0.01	17.19	18.30	1.291	0.792	22.5
rtigrit side	120	Q1 010 100_0		Test R		0.01	17.13	10.00	1.201	0.732	22.0
			Aire	10311						Scaled	
T 4 141	D14/	-	Tankalı (Form	Duty		Power	Conducted	Tune up	Scaled		Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg)	drift (dB)	Power(dBm)			1-g	Temp.(℃
					1-g	(ub)				(W/kg)	
				Test Da							
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.316	0.10	17.99	19.00	1.262	0.399	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.386	-0.13	17.99	19.00	1.262	0.487	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.609	0.01	17.99	19.00	1.262	0.768	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.732	-0.06	17.99	19.00	1.262	0.924	22.5
Right tilted-ENDC	20	QPSK 1_0	21100/2535	1:1	0.531	-0.03	15.78	16.60	1.208	0.641	22.5
tight tilted CA_7C	20		21100+20902/2535+2515.2	1:1	0.612	-0.02	17.85	19.00	1.303	0.798	22.5
Right tilted	20	QPSK 1_0	20850/2510	1:1	0.622	-0.15	17.96	19.00	1.271	0.790	22.5
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.646	0.19	17.90	19.00	1.288	0.832	22.5



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 78 of 121

			Head Te	et Data	(50%RF	()					
Left cheek	20	QPSK 50 0	21100/2535	1:1	0.304	0.12	17.96	19.00	1.271	0.386	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.389	0.12	17.96	19.00	1.271	0.494	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.587	0.13	17.96	19.00	1.271	0.746	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.672	0.12	17.96	19.00	1.271	0.854	22.5
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.652	-0.14	17.87	19.00	1.297	0.846	22.5
Right tilted	20	QPSK 50_0	21350/2560	1:1	0.600	-0.14	17.80	19.00	1.318	0.791	22.5
Right tilled	20	QF3K 50_0	Head Te				17.00	19.00	1.310	0.791	22.5
Right tilted	20	QPSK 100_0		1:1	0.678	0.18	17.85	19.00	1.303	0.884	22.5
rtigrit tillou	120	Q1 011 100_0	Body worn Test of					10.00	1.000	0.004	22.0
Front side	20	QPSK 1_0	21100/2535	1:1	0.404	0.01	24.29	25.50	1.321	0.534	22.5
Back side	20	QPSK 1 0	21100/2535	1:1	0.623	0.14	24.29	25.50	1.321	0.823	22.5
Back side-ENDC	20	QPSK 1_0	21100/2535	1:1	0.591	0.11	22.06	23.10	1.271	0.751	22.5
Back side CA_7C	20		21100+20902/2535+2515.2	1:1	0.603	0.05	24.16	25.50	1.361	0.821	22.5
Back side	20	QPSK 1 0	20850/2510	1:1	0.543	0.07	24.21	25.50	1.346	0.731	22.5
Back side	20	QPSK 1 0	21350/2560	1:1	0.591	-0.11	24.25	25.50	1.334	0.788	22.5
Dack side	20	QI OIT I_0	Body worn Test da					20.00	1.004	0.700	22.0
Front side	20	QPSK 50_0	21100/2535	1:1	0.294	-0.02	23.37	24.50	1.297	0.381	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.294	0.18	23.37	24.50	1.297	0.730	22.5
Dack side	20	Q1 51 30_0	Body worn Test dat					24.50	1.231	0.730	22.5
Back side	20	QPSK 100_0	·	1:1	0.566	0.02	23.29	24.50	1.321	0.748	22.5
Dack side	20	QP3K 100_0	Hotspot Test da					24.50	1.321	0.746	22.3
Frant aids	120	ODCK 4 O	•				17.99	10.00	4 262	0.470	22.5
Front side	20	QPSK 1_0	21100/2535	1:1	0.135	0.01		19.00	1.262	0.170	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.321	-0.15	17.99	19.00	1.262	0.405	22.5
Back side-ENDC	20	QPSK 1_0	21100/2535	1:1	0.219	0.12	15.78	16.60	1.208	0.265	22.5 22.5
Back side CA_7C	20		21100+20902/2535+2515.2	1:1	0.247	0.07	17.85	19.00	1.303	0.322	
Left side	20	QPSK 1_0	21100/2535	1:1	0.076	0.15	17.99	19.00	1.262	0.096	22.5
Top side	20	QPSK 1_0	21100/2535	1:1	0.217	-0.16	17.99	19.00	1.262	0.274	22.5
Fuent side	100	ODCK FO. O	Hotspot Test data					40.00	4 074	0.477	20.5
Front side	20	QPSK 50_0	21100/2535	1:1	0.139	0.11	17.96	19.00	1.271	0.177	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.315	0.14	17.96	19.00	1.271	0.400	22.5
Left side	20	QPSK 50_0	21100/2535	1:1	0.070	-0.01	17.96	19.00	1.271	0.089	22.5
Top side	20	QPSK 50_0	21100/2535	1:1	0.226	0.11	17.96	19.00	1.271	0.287	22.5
	1	1	Allt 4	Test R	ecord				İ	ادماما	
			Ant 4			Power	Conducted	Tune un	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Duty	SAR (W/kg)	drift	Conducted Power(dBm)		Scaled factor	SAR	Liquid Temp.(℃)
Test position	BW.	Test mode			SAR	drift	Conducted Power(dBm)			SAR	Liquid Temp.(℃)
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	drift				SAR 1-g	-
Test position Left cheek	BW .	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	drift				SAR 1-g	-
•			Test ch./Freq.	Duty Cycle Test Da	SAR (W/kg) 1-g ta(1RB)	drift (dB)	Power(dBm)	Limit(dBm)	factor	SAR 1-g (W/kg)	Temp.(℃)
Left cheek	20 20	QPSK 1_0 QPSK 1_0	Test ch./Freq. Head ¹ 21100/2535	Duty Cycle Γest Da 1:1	SAR (W/kg) 1-g ta(1RB) 0.178	drift (dB)	Power(dBm)	25.70	1.542 1.250	SAR 1-g (W/kg)	Temp.(° C)
Left cheek Left cheek-ENDC	20 20	QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535	Duty Cycle Γest Da 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132	0.15 0.07	23.82 21.63	25.70 22.60	1.542 1.250 1.607	SAR 1-g (W/kg) 0.274 0.165	Temp.(℃) 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2	Duty Cycle Test Da 1:1 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158	0.15 0.07 0.18	23.82 21.63 23.64	25.70 22.60 25.70	1.542 1.250 1.607	0.274 0.165 0.254 0.103	22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535	Duty Cycle Γest Da 1:1 1:1 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067	0.15 0.07 0.18 0.07	23.82 21.63 23.64 23.82	25.70 22.60 25.70 25.70	1.542 1.250 1.607 1.542	0.274 0.165 0.254 0.103	22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090	0.15 0.07 0.18 0.07 -0.15 -0.12	23.82 21.63 23.64 23.82 23.82	25.70 22.60 25.70 25.70 25.70 25.70	1.542 1.250 1.607 1.542 1.542	0.274 0.165 0.254 0.103 0.168	22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090	0.15 0.07 0.18 0.07 -0.15 -0.12	23.82 21.63 23.64 23.82 23.82	25.70 22.60 25.70 25.70 25.70 25.70	1.542 1.250 1.607 1.542 1.542	0.274 0.165 0.254 0.103 0.168	22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted	20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535 Head Te	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 2st Data	SAR (W/kg) 1-9 ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE	0.15 0.07 0.18 0.07 -0.15 -0.12	23.82 21.63 23.64 23.82 23.82 23.82 23.82	25.70 22.60 25.70 25.70 25.70 25.70 25.70	1.542 1.250 1.607 1.542 1.542 1.542	0.274 0.165 0.254 0.103 0.168 0.139	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek Left tilted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535 Head Te 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 2st Data 1:1	SAR (W/kg) 1-9 ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145	0.15 0.07 0.18 0.07 -0.15 -0.12 s) -0.19	23.82 21.63 23.64 23.82 23.82 23.82 23.82	25.70 22.60 25.70 25.70 25.70 25.70 25.70 24.70	1.542 1.250 1.607 1.542 1.542 1.542 1.496 1.496	0.274 0.165 0.254 0.103 0.168 0.139	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek	20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535 Head Te 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-9 ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145 0.074	0.15 0.07 0.18 0.07 -0.15 -0.12 s)	23.82 21.63 23.64 23.82 23.82 23.82 23.82 22.95 22.95	25.70 22.60 25.70 25.70 25.70 25.70 25.70	1.542 1.250 1.607 1.542 1.542 1.542	0.274 0.165 0.254 0.103 0.168 0.139	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535 21100/2535 Head Te 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-9 ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145 0.074 0.097	0.15 0.07 0.18 0.07 -0.15 -0.12 s) -0.19 -0.11 0.18 -0.16	23.82 21.63 23.64 23.82 23.82 23.82 22.95 22.95 22.95 22.95	25.70 22.60 25.70 25.70 25.70 25.70 25.70 24.70 24.70 24.70	1.542 1.250 1.607 1.542 1.542 1.542 1.496 1.496	0.274 0.165 0.254 0.103 0.168 0.139 0.217 0.111	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 5_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Test ch./Freq. Head 21100/2535 21100/2535 21100+20902/2535+2515.2 21100/2535 21100/2535 21100/2535 Head Te 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Body worn Test of	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 est Data 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145 0.074 0.097 0.067 parate 1	0.15 0.07 0.18 0.07 -0.15 -0.12 s) -0.19 -0.11 0.18 -0.16 5mm 1F	23.82 21.63 23.64 23.82 23.82 23.82 22.95 22.95 22.95 22.95 22.95	25.70 22.60 25.70 25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70	1.542 1.250 1.607 1.542 1.542 1.542 1.496 1.496 1.496	0.274 0.165 0.254 0.103 0.168 0.139 0.217 0.111 0.145 0.100	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Test ch./Freq. Head 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 41100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145 0.074 0.097 0.067 parate 1	0.15 0.07 0.18 0.07 -0.15 -0.12 s) -0.19 -0.11 0.18 -0.16 5mm 1F	23.82 21.63 23.64 23.82 23.82 23.82 22.95 22.95 22.95 22.95 22.95 8)	25.70 22.60 25.70 25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70	1.542 1.250 1.607 1.542 1.542 1.542 1.496 1.496 1.496	0.274 0.165 0.254 0.103 0.168 0.139 0.217 0.111 0.145 0.100	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Fight cheek Right cheek Right cheek Right cheek Right silted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	Test ch./Freq. Head 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 Head Te 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 2st Data 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145 0.074 0.097 0.067 parate 1 0.344 0.509	0.15 0.07 0.18 0.07 -0.15 -0.12 s) -0.19 -0.11 0.18 -0.16 5mm 1F -0.06 0.18	23.82 21.63 23.64 23.82 23.82 23.82 22.95 22.95 22.95 22.95 22.95 8B) 23.82 23.82	25.70 22.60 25.70 25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70 25.70	1.542 1.250 1.607 1.542 1.542 1.542 1.496 1.496 1.496 1.496 1.542	0.274 0.165 0.254 0.103 0.168 0.139 0.217 0.111 0.145 0.100	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Left cheek Left cheek-ENDC Left cheek CA_7C Left tilted Right cheek Right tilted Left cheek Left tilted Right cheek Left tilted Right cheek Right tilted	20 20 20 20 20 20 20 20 20 20 20 20 20 2	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	Test ch./Freq. Head 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 41100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535 21100/2535	Duty Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	SAR (W/kg) 1-g ta(1RB) 0.178 0.132 0.158 0.067 0.109 0.090 (50%RE 0.145 0.074 0.097 0.067 parate 1	0.15 0.07 0.18 0.07 -0.15 -0.12 s) -0.19 -0.11 0.18 -0.16 5mm 1F	23.82 21.63 23.64 23.82 23.82 23.82 22.95 22.95 22.95 22.95 22.95 8)	25.70 22.60 25.70 25.70 25.70 25.70 25.70 24.70 24.70 24.70 24.70	1.542 1.250 1.607 1.542 1.542 1.542 1.496 1.496 1.496	0.274 0.165 0.254 0.103 0.168 0.139 0.217 0.111 0.145 0.100	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 79 of 121

			Body worn Test da	ıta(Sepa	arate 15r	mm 50%	6RB)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.275	-0.08	22.95	24.70	1.496	0.411	22.5
Back side	20	QPSK 50 0	21100/2535	1:1	0.420	0.08	22.95	24.70	1.496	0.628	22.5
			Hotspot Test da								
Front side	20	QPSK 1_0	21100/2535	1:1	0.205	0.03	19.71	21.20	1.409	0.289	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.330	-0.14	19.71	21.20	1.409	0.465	22.5
Left side	20	QPSK 1_0	21100/2535	1:1	0.088	-0.09	19.71	21.20	1.409	0.124	22.5
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.377	-0.04	19.71	21.20	1.409	0.531	22.5
			Hotspot Test data	(Separa	ate 10mi	m 50%F	RB)				•
Front side	20	QPSK 50_0	21100/2535	1:1	0.209	-0.12	19.66	21.20	1.426	0.298	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.330	-0.14	19.66	21.20	1.426	0.470	22.5
Left side	20	QPSK 50_0	21100/2535	1:1	0.085	0.09	19.66	21.20	1.426	0.121	22.5
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.373	-0.13	19.66	21.20	1.426	0.532	22.5
Bottom side-ENDC	20	QPSK 50_0	21100/2535	1:1	0.159	0.08	17.16	18.10	1.242	0.197	22.5
Bottom side CA_7C	20	QPSK 50_0	21100+20902/2535+2515.2	1:1	0.316	-0.07	19.48	21.20	1.486	0.470	22.5
			Ant 5	Test R	ecord	·				1	
					SAR	Power		_		Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled		Liquid
			·	Cycle	1-g	(dB)	Power(dBm)	Limit(aBm)	tactor	1-g (W/kg)	Temp.(℃)
			Head ⁻	L Test Da	ta(1RB)	<u> </u>			1	(W/Kg)	
Left cheek	20	QPSK 1 0	21100/2535	1:1	0.128	-0.07	16.59	18.00	1.384	0.177	22.5
Left tilted	20	QPSK 1 0	21100/2535	1:1	0.094	0.12	16.59	18.00	1.384	0.130	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.394	0.07	16.59	18.00	1.384	0.545	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.161	-0.16	16.59	18.00	1.384	0.223	22.5
			Head Te								
Left cheek	20	QPSK 50 0	21100/2535	1:1	0.127	-0.17	16.53	18.00	1.403	0.178	22.5
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.089	0.02	16.53	18.00	1.403	0.125	22.5
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.480	0.04	16.53	18.00	1.403	0.673	22.5
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.169	-0.18	16.53	18.00	1.403	0.237	22.5
			Body worn Test of	data(Se	parate 1	5mm 1F	RB)			•	
Front side	20	QPSK 1_0	21100/2535	1:1	0.191	-0.13	19.13	20.50	1.371	0.262	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.391	0.11	19.13	20.50	1.371	0.536	22.5
			Body worn Test da	ıta(Sepa	arate 15r	mm 50%	6RB)				
Front side	20	QPSK 50_0	21100/2535	1:1	0.175	-0.15	19.11	20.50	1.377	0.241	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.377	0.09	19.11	20.50	1.377	0.519	22.5
			Hotspot Test da	ta(Sepa	arate 10r	nm 1RE	,				
Front side	20	QPSK 1_0	21100/2535	1:1	0.176	0.00	16.59	18.00	1.384	0.244	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.366	0.11	16.59	18.00	1.384	0.506	22.5
Left side	20	QPSK 1_0	21100/2535	1:1	0.330	-0.18	16.59	18.00	1.384	0.457	22.5
Top side	20	QPSK 1_0	21100/2535	1:1	0.092	-0.01	16.59	18.00	1.384	0.127	22.5
			Hotspot Test data	<u> </u>						1	ı
Front side	20	QPSK 50_0	21100/2535	1:1	0.163	-0.14	16.53	18.00	1.403	0.229	22.5
Back side	20	QPSK 50_0	21100/2535	1:1	0.333	-0.03	16.53	18.00	1.403	0.467	22.5
Left side	20	QPSK 50_0	21100/2535	1:1	0.353	0.18	16.53	18.00	1.403	0.495	22.5
Top side		QPSK 50_0	21100/2535	1:1	0.083	0.17	16.53	18.00	1.403	0.116	22.5

Table 18: SAR of LTE Band 7 for Head and Body.

9.2.9 SAR Result of LTE Band 13

					and 13 SA Ant 0 Test		ecord				
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	Head Test Data(1RB)										



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SEWM2311000454RG09 Report No.:

Rev.: Page: 80 of 121

					1	1	1	1	1	1	1
Left cheek	10	QPSK 1_0	23230/782	1:1	0.111	0.06	23.91	25.50	1.442	0.160	22.2
Left tilted	10	QPSK 1_0	23230/782	1:1	0.069	-0.04	23.91	25.50	1.442	0.100	22.2
Right cheek	10	QPSK 1_0	23230/782	1:1	0.126	0.15	23.91	25.50	1.442	0.182	22.2
Right tilted	10	QPSK 1_0	23230/782	1:1	0.079	-0.01	23.91	25.50	1.442	0.114	22.2
	1	1		l .	ad Test Da	ı '	<i>'</i>	ı	ı	1	1
Left cheek	10	QPSK 25_0	23230/782	1:1	0.090	0.18	22.99	24.50	1.416	0.127	22.2
Left tilted	10	QPSK 25_0	23230/782	1:1	0.053	-0.18	22.99	24.50	1.416	0.075	22.2
Right cheek	10	QPSK 25_0	23230/782	1:1	0.120	-0.04	22.99	24.50	1.416	0.170	22.2
Right tilted	10	QPSK 25_0	23230/782	1:1	0.073	-0.19	22.99	24.50	1.416	0.103	22.2
	1			Body worn				Ī	1	ı	ı
Front side	10	QPSK 1_0	23230/782	1:1	0.302	0.17	23.91	25.50	1.442	0.436	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.376	0.05	23.91	25.50	1.442	0.542	22.2
		T = = = = =					mm 50%RB)	ı	1	Т	ı
Front side	10	QPSK 25_0	23230/782	1:1	0.255	-0.03	22.99	24.50	1.416	0.361	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.300	-0.16	22.99	24.50	1.416	0.425	22.2
		T		1	est data(Se	i	1	T	1		ı
Front side	10	QPSK 1_0	23230/782	1:1	0.346	0.13	23.91	25.50	1.442	0.499	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.429	-0.07	23.91	25.50	1.442	0.619	22.2
Right side	10	QPSK 1_0	23230/782	1:1	0.404	0.07	23.91	25.50	1.442	0.583	22.2
Bottom side	10	QPSK 1_0	23230/782	1:1	0.240	0.14	23.91	25.50	1.442	0.346	22.2
	1	1		lotspot Tes			· · · · · · · · · · · · · · · · · · ·	ı	ı	1	1
Front side	10	QPSK 25_0	23230/782	1:1	0.317	-0.14	22.99	24.50	1.416	0.449	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.345	0.01	22.99	24.50	1.416	0.488	22.2
Right side	10	QPSK 25_0	23230/782	1:1	0.314	0.16	22.99	24.50	1.416	0.445	22.2
Bottom side	10	QPSK 25_0	23230/782	1:1	0.190	-0.03	22.99	24.50	1.416	0.269	22.2
	1				Ant 1 Test		1	T	1		1
					SAR	Power				Scaled	
Toot woodtion	DIM	T = = 4 = = 1 =	Took ob /Fuse	Duty			Conducted	Tune up	Scaled		Liquid
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Conducted Power(dBm)		Scaled factor	SAR 1-g	Liquid Temp.(℃)
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg) 1-g	drift (dB)					
•				Cycle	(W/kg) 1-g lead Test D	drift (dB) Data(1RB)	Power(dBm)	Limit(dBm)	factor	SAR 1-g (W/kg)	Temp.(℃)
Left cheek	10	QPSK 1_0	23230/782	Cycle H 1:1	(W/kg) 1-g lead Test D 0.682	drift (dB) Data(1RB) 0.09	22.87	Limit(dBm)	1.211	SAR 1-g (W/kg)	Temp.(℃) 22.2
Left cheek Left tilted	10	QPSK 1_0 QPSK 1_0	23230/782 23230/782	1:1 1:1	(W/kg) 1-g lead Test E 0.682 0.119	drift (dB) Data(1RB) 0.09 0.15	22.87 22.87	23.70 23.70	1.211 1.211	SAR 1-g (W/kg) 0.826 0.144	Temp.(℃) 22.2 22.2
Left cheek Left tilted Right cheek	10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782	1:1 1:1 1:1	(W/kg) 1-g Head Test I 0.682 0.119 0.487	drift (dB) Data(1RB) 0.09 0.15 0.07	22.87 22.87 22.87	23.70 23.70 23.70 23.70	1.211 1.211 1.211	SAR 1-g (W/kg) 0.826 0.144 0.590	22.2 22.2 22.2
Left cheek Left tilted	10	QPSK 1_0 QPSK 1_0	23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19	22.87 22.87 22.87 22.87 22.87	23.70 23.70	1.211 1.211	SAR 1-g (W/kg) 0.826 0.144	Temp.(℃) 22.2 22.2
Left cheek Left tilted Right cheek Right tilted	10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782 23230/782	1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB	22.87 22.87 22.87 22.87 22.87 3)	23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211	0.826 0.144 0.590 0.096	22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Left cheek	10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 He 1:1	(W/kg) 1-g Head Test I 0.682 0.119 0.487 0.079 ad Test Da 0.496	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB	22.87 22.87 22.87 22.87 22.87 22.87 22.84	23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211	SAR 1-g (W/kg) 0.826 0.144 0.590 0.096	22.2 22.2 22.2 22.2 22.2 22.2
Left cheek Left tilted Right cheek Right tilted Left cheek Left tilted	10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 He 1:1 1:1	(W/kg) 1-g Head Test D 0.682 0.119 0.487 0.079 and Test Da 0.496 0.080	drift (dB) Oata(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07	22.87 22.87 22.87 22.87 22.87 22.87 22.84 22.84	23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219	SAR 1-g (W/kg) 0.826 0.144 0.590 0.096 0.605 0.098	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	10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test D 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328	drift (dB) Oata(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219	0.826 0.144 0.590 0.096 0.605 0.098 0.400	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	10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test D 0.682 0.119 0.487 0.079 and Test Da 0.496 0.080 0.328 0.052	drift (dB) Oata(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 22.84	23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219	SAR 1-g (W/kg) 0.826 0.144 0.590 0.096 0.605 0.098	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	10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test D 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328	drift (dB) Oata(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 3)	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219	0.826 0.144 0.590 0.096 0.605 0.098 0.400	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	10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 He 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dat 0.460	drift (dB) 0.09 0.15 0.07 -0.19 sta(50%RE -0.13 0.07 -0.04 0.09 ta(100%RE	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 3)	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219	SAR 1-g (W/kg) 0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063	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	10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dat 0.460 Test data(S	drift (dB) 0.09 0.15 0.07 -0.19 tta(50%RB -0.13 0.07 -0.04 0.09 ta(100%RI -0.11 Geparate 1	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 3) 22.71 5mm 1RB)	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063	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	10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 50_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Da 0.460 Test data(\$0.433	drift (dB) 0.09 0.15 0.07 -0.19 tta(50%RB -0.13 0.07 -0.04 0.09 ta(100%RI -0.11 Geparate 1	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 3) 22.71 5mm 1RB) 24.06	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063	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 tilted	10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 He 1:1 1:1 1:1 1:1 1:1 1:1 Hea 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Da 0.460 Test data(\$ 0.433 0.623	drift (dB) 0.09 0.15 0.07 -0.19 tta(50%RB -0.13 0.07 -0.04 0.09 ta(100%RI -0.11 Geparate 1 -0.12 0.02	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 22.71 5mm 1RB) 24.06 24.06	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063	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 tilted Left cheek Enter cheek	10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dai 0.460 Test data(Se 0.433 0.623 est data(Se	drift (dB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RB -0.11 Separate 1 -0.12 0.02 parate 15r	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 22.71 5mm 1RB) 24.06 24.06 mm 50%RB)	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578	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	10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dai 0.460 Test data(Se 0.433 0.623 est data(Se 0.342	drift (dB) 0.09 0.15 0.07 -0.19 sta(50%RB -0.13 0.07 -0.04 0.09 ta(100%RB -0.11 Separate 1 -0.12 0.02 parate 15r	22.87 22.87 22.87 22.87 22.87 22.84 22.84 22.84 22.84 22.84 22.64 24.06 24.06 24.06 mm 50%RB) 23.21	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 25.70 25.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.459	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909	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 tilted Left cheek Enter cheek	10 10 10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dai 0.460 Test data(Se 0.433 0.623 est data(Se 0.342 0.474	drift (dB) 0.09 0.15 0.07 -0.19 sta(50%RB -0.13 0.07 -0.04 0.09 ta(100%RB -0.11 Separate 1 -0.12 0.02 parate 15r 0.07 0.15	22.87 22.87 22.87 22.87 22.87 22.84	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578	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 Front side Back side	10 10 10 10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 Bot 23230/782 Bot 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dai 0.460 Test data(Se 0.342 0.474 est data(Se	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RI -0.11 Separate 1 -0.12 0.02 parate 15r 0.07 0.15 parate 15r	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 23.21 23.21 23.21 23.21 25.77	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 25.70 25.70 24.70	1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.409 1.409	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909	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	10 10 10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dai 0.460 Test data(Se 0.342 0.474 est data(Se 0.469	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RI -0.11 Separate 1 -0.12 0.02 parate 15r 0.07 0.18	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 25.70 25.70	1.211 1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.459	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909	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 Front side Back side	10 10 10 10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 Bot 23230/782 Bot 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Dai 0.460 Test data(Se 0.342 0.474 est data(Se	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RI -0.11 Separate 1 -0.12 0.02 parate 15r 0.07 0.18	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 25.70 25.70 24.70 24.70	1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.409 1.409	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909	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	10 10 10 10 10 10 10 10 10 10 10 10 10 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 Bo 23230/782 Bo 23230/782 23230/782 23230/782	Cycle	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Da 0.460 Test data(Se 0.342 0.474 est data(Se 0.469 est data(Se 0.380	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ata(100%RB -0.11 Ceparate 1 -0.12 0.02 parate 15r 0.07 0.15 parate 15r 0.18 parate 10r 0.15	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 22.84 23.21 5mm 1RB) 24.06 24.06 mm 50%RB) 23.21 23.21 mm 50%RB) 23.04 mm 1RB) 21.87	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 24.70 24.70 24.70	1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.409 1.409	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.
Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side Back side Back side Front side Back side	10 10 10 10 10 10 10 10 10 10 10 10 10	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 80 23230/782 80 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Da 0.460 Test data(Se 0.342 0.474 est data(Se 0.469 est data(Se	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RB -0.11 Ceparate 1 -0.12 0.02 parate 15r 0.07 0.15 parate 15r 0.18 parate 10r 0.15 -0.08	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84 22.84 22.84 22.84 22.84 22.84 22.84 23.21 23.21 23.21 23.21 23.21 23.21 23.24 23.94 23.94 23.94 23.94 23.94 23.94 23.94	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 25.70 24.70 24.70 24.70	1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.409 1.409	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909 0.482 0.668 0.687	Temp.(°C) 22.2 22.2 22.2 22.2 22.2 22.2 22.2 2
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	10 10 10 10 10 10 10 10 10 10 10 10 10 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 Bo 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Da 0.460 Test data(Se 0.342 0.474 est data(Se 0.469 est data(Se 0.380 0.594 0.747	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RB -0.11 Geparate 1 -0.12 0.02 parate 15r 0.07 0.18 parate 10r 0.18 parate 10r 0.15 -0.08 -0.02	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84 22.84 22.84 22.84 22.84 22.84 23.21 5mm 1RB) 24.06 24.06 mm 50%RB) 23.21 23.21 mm 50%RB) 23.04 mm 1RB) 21.87 21.87 21.87	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 24.70 24.70 24.70	1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.409 1.409	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909	Temp.(°C) 22.2 22.2 22.2 22.2 22.2 22.2 22.2 2
Left cheek Left tilted Right cheek Right cheek Right tilted Left cheek Left tilted Right cheek Right tilted Left cheek Front side Back side Back side Front side Back side	10 10 10 10 10 10 10 10 10 10 10 10 10 1	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 25_0 QPSK 50_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 25_0 QPSK 25_0	23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782 Bo 23230/782 23230/782 23230/782 23230/782 23230/782 23230/782	Cycle 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1	(W/kg) 1-g Head Test E 0.682 0.119 0.487 0.079 ad Test Da 0.496 0.080 0.328 0.052 ad Test Da 0.460 Test data(Se 0.342 0.474 est data(Se 0.469 est data(Se 0.380 0.594 0.747	drift (dB) Data(1RB) 0.09 0.15 0.07 -0.19 ata(50%RB -0.13 0.07 -0.04 0.09 ta(100%RB -0.11 Geparate 1 -0.12 0.02 parate 15r 0.07 0.18 parate 10r 0.18 parate 10r 0.15 -0.08 -0.02	22.87 22.87 22.87 22.87 22.87 22.87 3) 22.84 22.84 22.84 22.84 22.84 22.84 23.21 5mm 1RB) 24.06 24.06 mm 50%RB) 23.21 23.21 mm 50%RB) 23.04 mm 1RB) 21.87 21.87 21.87	23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 25.70 24.70 24.70 24.70	1.211 1.211 1.211 1.211 1.219 1.219 1.219 1.219 1.256 1.459 1.409 1.409	0.826 0.144 0.590 0.096 0.605 0.098 0.400 0.063 0.578 0.632 0.909 0.482 0.668 0.687	22.2 22.2 22.2 22.2 22.2 22.2 22.2 22.



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 81 of 121

Back side	10	QPSK 25_0	23230/782	1:1	0.560	-0.01	21.73	22.70	1.250	0.700	22.2
Left side	10	QPSK 25_0	23230/782	1:1	0.702	0.19	21.73	22.70	1.250	0.878	22.2
			H	otspot Test	data(Sepa	rate 10mn	n 100%RB)				
Left side	10	QPSK 50_0	23230/782	1:1	0.651	0.09	21.70	22.70	1.259	0.820	22.2
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10- g	Liquid Temp.(℃)
					_	` '				(W/kg)	
	<u> </u>		Pro	duct specif	l fic 10g SAF	R(Separate	e 0mm 1RB)			(w/kg)	
Back side	10	QPSK 1_0	Pro 23230/782	oduct specit	fic 10g SAF 0.929	R(Separate 0.12	e 0mm 1RB) 24.06	25.70	1.459	1.355	22.2
Back side Left side	10	QPSK 1_0 QPSK 1_0					, ,	25.70 25.70	1.459 1.459		22.2 22.2
			23230/782 23230/782	1:1 1:1	0.929 0.996	0.12	24.06			1.355	
			23230/782 23230/782 Prod	1:1 1:1	0.929 0.996	0.12	24.06 24.06			1.355	

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 82 of 121

9.2.10 SAR Result of LTE Band 26

				LTE Bar	nd 26 SAR	Test Re	cord				
				A	nt 0 Test I	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 1-g (W/kg)	Liquid Temp.(℃)
				He	ad Test Da	ata(1RB)					
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.226	0.00	24.43	25.50	1.279	0.289	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.128	-0.12	24.43	25.50	1.279	0.164	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.239	-0.16	24.43	25.50	1.279	0.306	22.5
Right cheek-ENDC	15	QPSK 1_0	26865/831.5	1:1	0.205	-0.13	24.05	25.00	1.245	0.255	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.145	-0.18	24.43	25.50	1.279	0.186	22.5
				Head	d Test Data	a(50%RB)				
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.186	0.06	23.49	24.50	1.262	0.235	22.5
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.092	0.05	23.49	24.50	1.262	0.116	22.5
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.173	-0.05	23.49	24.50	1.262	0.218	22.5
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.115	-0.02	23.49	24.50	1.262	0.145	22.5
			Boo	dy worn Te	st data(Se	eparate 15	5mm 1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.111	0.12	24.43	25.50	1.279	0.142	22.5
Back side	15	QPSK 1_0	26865/831.5	1:1	0.125	0.07	24.43	25.50	1.279	0.160	22.5
Back side-ENDC	15	QPSK 1_0	26865/831.5	1:1	0.112	-0.19	24.05	25.00	1.245	0.139	22.5
			Body	worn Tes	t data(Sep	arate 15n	nm 50%RB)		·		
Front side	15	QPSK 36_0	26865/831.5	1:1	0.086	-0.03	23.49	24.50	1.262	0.109	22.5
Back side	15	QPSK 36_0	26865/831.5	1:1	0.104	-0.17	23.49	24.50	1.262	0.131	22.5
			Ho	otspot Test	t data(Sep	arate 10n	nm 1RB)			,	
Front side	15	QPSK 1_0	26865/831.5	1:1	0.117	0.12	24.43	25.50	1.279	0.150	22.5
Back side	15	QPSK 1 0	26865/831.5	1:1	0.298	-0.03	24.43	25.50	1.279	0.381	22.5
Back side-ENDC	15	QPSK 1 0	26865/831.5	1:1	0.174	-0.02	24.05	25.00	1.245	0.217	22.5
Right side	15	QPSK 1 0	26865/831.5	1:1	0.161	-0.19	24.43	25.50	1.279	0.206	22.5
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.130	-0.07	24.43	25.50	1.279	0.166	22.5
					data(Sepai				_		
Front side	15	QPSK 36_0	26865/831.5	1:1	0.194	0.14	23.49	24.50	1.262	0.245	22.5
Back side		QPSK 36_0	26865/831.5	1:1	0.291	-0.04	23.49	24.50	1.262	0.367	22.5
Right side	15	QPSK 36_0	26865/831.5	1:1	0.135	0.06	23.49	24.50	1.262	0.170	22.5
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.112	-0.08	23.49	24.50	1.262	0.141	22.5
2011011110100		<u> a. a. a. a.</u>	20000,001.0		nt 1 Test I		20.10				
					SAR	Power				Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/kg) 1-g	drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-g (W/kg)	Liquid Temp.(℃)
		T			ad Test Da			T		1	
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.606	0.06	21.61	22.70	1.285	0.779	22.5
Left cheek-ENDC	15	QPSK 1_0	26865/831.5	1:1	0.534	0.18	21.64	22.50	1.219	0.651	22.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.076	0.05	21.61	22.70	1.285	0.098	22.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.367	0.06	21.61	22.70	1.285	0.472	22.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.079	-0.14	21.61	22.70	1.285	0.102	22.5
		T		Head	d Test Data			T			
Left cheek		QPSK 36_0	26865/831.5	1:1	0.565	-0.01	21.58	22.70	1.294	0.731	22.5
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.080	-0.14	21.58	22.70	1.294	0.104	22.5
Right cheek		QPSK 36_0	26865/831.5	1:1	0.373	-0.03	21.58	22.70	1.294	0.483	22.5
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.067	-0.14	21.58	22.70	1.294	0.087	22.5
			Boo	dy worn Te	est data(Se	eparate 15	5mm 1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.312	0.10	21.61	22.70	1.285	0.401	22.5
Back side	15	QPSK 1_0	26865/831.5	1:1	0.537	0.08	21.61	22.70	1.285	0.690	22.5
Back side-ENDC	15	QPSK 1_0	26865/831.5	1:1	0.478	-0.05	21.64	22.50	1.219	0.583	22.5



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 83 of 121

	Body worn Test data(Separate 15mm 50%RB)												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.270	0.03	21.58	22.70	1.294	0.349	22.5		
Back side	15	QPSK 36_0	26865/831.5	1:1	0.442	0.09	21.58	22.70	1.294	0.572	22.5		
			Ho	otspot Tes	t data(Sep	arate 10m	ım 1RB)						
Front side	15	QPSK 1_0	26865/831.5	1:1	0.306	0.10	21.61	22.70	1.285	0.393	22.5		
Back side													
Left side													
			Hots	spot Test of	data(Separ	ate 10mm	50%RB)						
Front side	15	QPSK 36_0	26865/831.5	1:1	0.339	-0.19	21.58	22.70	1.294	0.439	22.5		
Back side	15	QPSK 36_0	26865/831.5	1:1	0.694	-0.13	21.58	22.70	1.294	0.898	22.5		
Left side	15	QPSK 36_0	26865/831.5	1:1	0.749	-0.05	21.58	22.70	1.294	0.969	22.5		
Left side-ENDC	15	QPSK 36_0	26865/831.5	1:1	0.651	0.16	21.49	22.50	1.262	0.821	22.5		
	•		Hots	pot Test d	ata(Separa	ate 10mm	100%RB)	•					
Left side	15	QPSK 75_0	26865/831.5	1:1	0.739	-0.06	21.59	22.70	1.291	0.954	22.5		

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 84 of 121

9.2.11SAR Result of LTE Band 41

			LTE Band 4			cord					
			Ant 2	Test R	ecord						
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(W/ka)	Power drift (dB)	Conducted Power(dBm)		Scaled		Liquid Temp.(℃
			Head T	est Dat	a(1RB)						
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.316	0.14	17.23	18.70	1.403	0.443	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58		0.12	17.23	18.70	1.403	0.102	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.420	-0.16	17.23	18.70	1.403	0.589	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.072	0.08	17.23	18.70	1.403	0.101	22.5
			Head Tes			3)			•		
Left cheek	20	QPSK 50_0	40620/2593		0.300	0.16	17.13	18.70	1.435	0.431	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58		0.00	17.13	18.70	1.435	0.189	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.329	0.12	17.13	18.70	1.435	0.472	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.076	-0.12	17.13	18.70	1.435	0.109	22.5
			Body worn Test da	ata(Sep	arate 1	5mm 11	RB)				
Front side	20	QPSK 1_0	40620/2593		0.151	-0.03	18.66	20.20	1.426	0.215	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58		0.03	18.66	20.20	1.426	0.292	22.5
			Body worn Test dat			mm 50%	6RB)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.126	-0.16	18.57	20.20	1.455	0.183	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.201	0.10	18.57	20.20	1.455	0.293	22.5
			Hotspot Test dat			mm 1RE	3)				
Front side	20	QPSK 1_0	40620/2593	1:1.58		-0.11	17.23	18.70	1.403	0.226	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.237	0.03	17.23	18.70	1.403	0.332	22.5
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.377	-0.08	17.23	18.70	1.403	0.529	22.5
			Hotspot Test data(m 50%F	RB)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.155	-0.06	17.13	18.70	1.435	0.223	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.199	0.18	17.13	18.70	1.435	0.286	22.5
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.351	-0.19	17.13	18.70	1.435	0.504	22.5
			Ant 3	Test R	ecord						
				_	SAR	Power		_		Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	(\M/ka)	drift	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃
	-		Head T	est Dat	a(1RB)					(5/	
Left cheek	20	QPSK 1_0	40620/2593	1:1.58		0.03	19.75	20.50	1.189	0.353	22.5
Left tilted									4 400	0.207	22.5
	20	QPSK 1 0	40620/2593	1:1.58	0.334	-0.12	19.75	20.50	1.189	0.397	22.3
		QPSK 1_0 QPSK 1_0			0.334						
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.595	-0.07	19.75	20.50	1.189	0.707	22.5
Right cheek Right tilted	20 20	QPSK 1_0 QPSK 1_0	40620/2593 40620/2593	1:1.58 1:1.58	0.595 0.674	-0.07 -0.09	19.75 19.75	20.50 20.50	1.189 1.189	0.707 0.801	22.5 22.5
Right cheek Right tilted Right tilted	20	QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506	1:1.58	0.595 0.674	-0.07	19.75 19.75 19.71	20.50 20.50 20.50	1.189 1.189 1.199	0.707	22.5 22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted	20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1	0.595 0.674 0.677 0.431	-0.07 -0.09 0.03	19.75 19.75	20.50 20.50	1.189 1.189	0.707 0.801 0.812	22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted CA_38C	20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9	1:1.58 1:1.58 1:1.58 1:1 1:1.58	0.595 0.674 0.677 0.431 0.594	-0.07 -0.09 0.03 -0.02 0.01	19.75 19.75 19.71 16.02 19.35	20.50 20.50 20.50 17.20 20.50	1.189 1.189 1.199 1.312 1.303	0.707 0.801 0.812 0.566 0.774	22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted	20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670	-0.07 -0.09 0.03 -0.02	19.75 19.75 19.71 16.02	20.50 20.50 20.50 17.20	1.189 1.189 1.199 1.312 1.303 1.208	0.707 0.801 0.812 0.566 0.774 0.809	22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted-ENDC Right tilted CA_38C Right tilted	20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647	-0.07 -0.09 0.03 -0.02 0.01	19.75 19.75 19.71 16.02 19.35 19.68 19.66	20.50 20.50 20.50 17.20 20.50 20.50	1.189 1.189 1.199 1.312 1.303	0.707 0.801 0.812 0.566 0.774 0.809 0.785	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted-ENDC Right tilted CA_38C Right tilted Right tilted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5 41055/2636.5	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647 0.648	-0.07 -0.09 0.03 -0.02 0.01 0.14 0.17 -0.10	19.75 19.75 19.71 16.02 19.35	20.50 20.50 20.50 17.20 20.50 20.50 20.50	1.189 1.189 1.199 1.312 1.303 1.208 1.213	0.707 0.801 0.812 0.566 0.774 0.809	22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted-ENDC Right tilted CA_38C Right tilted Right tilted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5 41055/2636.5 41490/2680	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647 0.648 (50%RE	-0.07 -0.09 0.03 -0.02 0.01 0.14 0.17 -0.10	19.75 19.75 19.71 16.02 19.35 19.68 19.66	20.50 20.50 20.50 17.20 20.50 20.50 20.50	1.189 1.199 1.312 1.303 1.208 1.213 1.208	0.707 0.801 0.812 0.566 0.774 0.809 0.785	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted CA_38C Right tilted Right tilted Right tilted	20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5 41055/2636.5 41490/2680 Head Tes	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647 0.648 (50%RE	-0.07 -0.09 0.03 -0.02 0.01 0.14 0.17 -0.10	19.75 19.75 19.71 16.02 19.35 19.68 19.66 19.68	20.50 20.50 20.50 17.20 20.50 20.50 20.50 20.50	1.189 1.189 1.199 1.312 1.303 1.208 1.213 1.208	0.707 0.801 0.812 0.566 0.774 0.809 0.785 0.783	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted-ENDC Right tilted CA_38C Right tilted Right tilted Right tilted Left cheek Left tilted	20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5 41055/2636.5 41490/2680 Head Test 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647 0.648 (50%RE 0.244 0.339	-0.07 -0.09 0.03 -0.02 0.01 0.14 0.17 -0.10 3) -0.07	19.75 19.75 19.71 16.02 19.35 19.68 19.66 19.68	20.50 20.50 20.50 17.20 20.50 20.50 20.50 20.50 20.50	1.189 1.199 1.312 1.303 1.208 1.213 1.208 1.216	0.707 0.801 0.812 0.566 0.774 0.809 0.785 0.783 0.297 0.412	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted-ENDC Right tilted CA_38C Right tilted Right tilted Right tilted Left cheek Left tilted Right cheek	20 20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0 QPSK 50_0 QPSK 50_0 QPSK 50_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5 41055/2636.5 41490/2680 Head Test 40620/2593 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647 0.648 (50%RE 0.244 0.339 0.561	-0.07 -0.09 0.03 -0.02 0.01 0.14 0.17 -0.10 3) -0.07 0.00 0.05	19.75 19.75 19.71 16.02 19.35 19.68 19.66 19.68	20.50 20.50 20.50 17.20 20.50 20.50 20.50 20.50 20.50 20.50 20.50	1.189 1.199 1.312 1.303 1.208 1.213 1.208 1.216 1.216 1.216	0.707 0.801 0.812 0.566 0.774 0.809 0.785 0.783 0.297 0.412 0.682	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5
Right cheek Right tilted Right tilted Right tilted-ENDC Right tilted-ENDC Right tilted CA_38C Right tilted Right tilted Right tilted Left cheek Left tilted	20 20 20 20 20 20 20 20 20	QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 1_0 QPSK 50_0	40620/2593 40620/2593 39750/2506 39750/2506 37901+38099/2585.1+2604.9 40185/2549.5 41055/2636.5 41490/2680 Head Test 40620/2593 40620/2593	1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58 1:1.58	0.595 0.674 0.677 0.431 0.594 0.670 0.647 0.648 (50%RE 0.244 0.339 0.561 0.605	-0.07 -0.09 0.03 -0.02 0.01 0.14 0.17 -0.10 3) -0.07 0.00 0.05 -0.09	19.75 19.75 19.71 16.02 19.35 19.68 19.66 19.68	20.50 20.50 20.50 17.20 20.50 20.50 20.50 20.50 20.50	1.189 1.199 1.312 1.303 1.208 1.213 1.208 1.216	0.707 0.801 0.812 0.566 0.774 0.809 0.785 0.783 0.297 0.412	22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 85 of 121

			Dody warn Took d	oto/Cor	oroto 1	E 1	DD)						
Front side	20	ODCK 4 O	Body worn Test da				· '	25.50	4 476	0.225	22.5		
Front side	20	QPSK 1_0	40620/2593		0.220	0.15	23.81	25.50	1.476	0.325	22.5		
Back side	20	QPSK 1_0	40620/2593		0.454	-0.10	23.81	25.50	1.476	0.670	22.5		
Back side-ENDC	20	QPSK 1_0	40620/2593	1:1.58		0.01	21.23	22.20	1.250	0.296	22.5		
Back side CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9 Body worn Test dat			-0.08	23.78	25.50	1.486	0.596	22.5		
Front side	20	ODCK FO. O	1					24.50	1 155	0.000	22.5		
Front side	20	QPSK 50_0	40620/2593		0.180		22.87	24.50	1.455	0.262	22.5		
Back side	20	QPSK 50_0	40620/2593 Hotspot Test dat		0.353		22.87	24.50	1.455	0.514	22.5		
Front side	20	QPSK 1 0	40620/2593		0.107	-0.03	19.75	20.50	1.189	0.127	22.5		
Back side	20	QPSK 1_0	40620/2593		0.107	-0.03	19.75	20.50	1.189	0.127	22.5		
Back side-ENDC	20	QPSK 1_0	40620/2593	0.234	-0.12	16.17	17.20	1.268	0.183	22.5			
Back side CA_38C			37901+38099/2585.1+2604.9			0.12	19.35	20.50	1.303	0.103	22.5		
Left side	20	QPSK 1_0	40620/2593		0.063	0.12	19.75	20.50	1.189	0.134	22.5		
Top side	20	QPSK 1_0	40620/2593		0.233	-0.05	19.75	20.50	1.189	0.073	22.5		
Top side	20	QI OIT I_O	Hotspot Test data(20.00	1.103	0.211	22.0		
Front side	20	QPSK 50_0	40620/2593		0.103		19.65	20.50	1.216	0.125	22.5		
Back side	20	QPSK 50_0	40620/2593		0.234	0.12	19.65	20.50	1.216	0.285	22.5		
Left side	20	QPSK 50_0	40620/2593		0.059	0.13	19.65	20.50	1.216	0.072	22.5		
Top side	20	QPSK 50_0	40620/2593		0.228	0.04	19.65	20.50	1.216	0.277	22.5		
. op 5.05						0.0.	10.00	20.00		0.2			
Ant 4 Test Record Scaled													
rest position	DVV.	restinode	rest ch./Freq.	Cycle	(W/Kg) 1-a	(dB)	Power(dBm)	Limit(dBm)	factor	g	Temp.(℃)		
						(42)				(W/kg)			
	I						T	T	T				
Test position BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 1-g Conducted (dB) Power(dBm) Limit(dBm) Factor (W/kg) (W/kg) Temp.(°C) Head Test Data(1RB) Left cheek 20 QPSK 1_0 40620/2593 1:1.58 0.188 -0.10 23.59 25.30 1.483 0.279 22.5 Left cheek-ENDC 20 QPSK 1_0 40620/2593 1:1.58 0.146 -0.16 20.77 21.80 1.268 0.185 22.5 Left cheek 20 QPSK 1_0 37901+38099/2585 1+2604 91:1.58 0.173 -0.16 23.22 25.20 1.578 0.273 22.5													
	20	QPSK 1_0	40620/2593	1:1.58	0.146	-0.16	20.77	21.80	1.268	0.185	22.5		
CA_38C	20	_		1:1.58	0.173	-0.16	23.22	25.20	1.578	0.273	22.5		
Left tilted	20	QPSK 1_0	40620/2593		0.069	-0.16	23.59	25.30	1.483	0.102	22.5		
Right cheek	20	QPSK 1_0	40620/2593		0.112	0.02	23.59	25.30	1.483	0.166	22.5		
Right tilted	20	QPSK 1_0	40620/2593		0.068	0.11	23.59	25.30	1.483	0.101	22.5		
	ı	1	Head Tes			1	ı	Г	1	1			
Left cheek	20	QPSK 50_0	40620/2593		0.147	0.04	22.68	24.30	1.452	0.213	22.5		
Left tilted	20	QPSK 50_0	40620/2593	1:1.58		0.16	22.68	24.30	1.452	0.080	22.5		
Right cheek	20	QPSK 50_0	40620/2593		0.098	0.15	22.68	24.30	1.452	0.142	22.5		
Right tilted	20	QPSK 50_0	40620/2593		0.074	-0.02	22.68	24.30	1.452	0.107	22.5		
		0.0014.4.0	Body worn Test da				,						
Front side	20	QPSK 1_0	40620/2593		0.220	0.12	23.59	25.30	1.483	0.326	22.5		
Back side	20	QPSK 1_0	40620/2593		0.346	-0.19	23.59	25.30	1.483	0.513	22.5		
Back side-ENDC					0.205		20.77	21.80		0.260	22.5		
Back side CA_38C	20	QPSK 1_0	37901+38099/2585.1+2604.9 Body worn Test dat				23.22 6RB)	25.20	1.578	0.317	22.5		
Front side	20	QPSK 50_0	40620/2593		0.196		22.68	24.30	1.452	0.285	22.5		
Back side		QPSK 50_0	40620/2593		0.284		22.68	24.30	1.452	0.412	22.5		
		5 55_0	Hotspot Test dat						,				
Front side	20	QPSK 1_0	40620/2593		0.227		21.97	23.30	1.358	0.308	22.5		
Back side	20	QPSK 1_0	40620/2593		0.385		21.97	23.30	1.358	0.523	22.5		
Left side	20	QPSK 1_0	40620/2593		0.075	-0.13	21.97	23.30	1.358	0.102	22.5		
Bottom side	20	QPSK 1_0	40620/2593		0.405	0.01	21.97	23.30	1.358	0.550	22.5		
Bottom side-ENDC		QPSK 1_0	39750/2506		0.245	0.13	18.76	19.80	1.271	0.311	22.5		
Bottom side CA_38C	20		37901+38099/2585.1+2604.9			0.05	21.11	22.70	1.442	0.535	22.5		
<u> </u>		l	Hotspot Test data(Separa	ite 10m	m 50%F	RB)	I	1	I			



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 86 of 121

Front side	20	QPSK 50_0	40620/2593	1:1.58	0.224	0.19	21.96	23.30	1.361	0.305	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.364	0.15	21.96	23.30	1.361	0.496	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.094	-0.05	21.88	23.30	1.387	0.130	22.5
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.401	0.17	21.96	23.30	1.361	0.546	22.5
			Ant 5	Test R	ecord						
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled	_	Liquid Temp.(℃)
			Head T	est Dat	a(1RB)	1					
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.078	-0.05	15.77	17.00	1.327	0.104	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.059	-0.15	15.77	17.00	1.327	0.078	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.391	0.07	15.77	17.00	1.327	0.519	22.5
Right tilted	20	QPSK 1_0	40620/2593		0.097		15.77	17.00	1.327	0.129	22.5
			Head Te	st Data	(50%RI	B)					
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.085	0.01	15.73	17.00	1.340	0.114	22.5
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.053	0.18	15.73	17.00	1.340	0.071	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.343	-0.16	15.73	17.00	1.340	0.460	22.5
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.142	0.16	15.73	17.00	1.340	0.190	22.5
			Body worn Test d	ata(Sep	parate 1	15mm 11	RB)				
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.083	0.07	18.24	19.50	1.337	0.111	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.159	-0.10	18.24	19.50	1.337	0.213	22.5
			Body worn Test dat				6RB)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.083	0.19	18.17	19.50	1.358	0.113	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.162	-0.04	18.17	19.50	1.358	0.220	22.5
			Hotspot Test dat	a(Sepa	rate 10	mm 1RI	3)				
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.060	-0.09	15.77	17.00	1.327	0.080	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.116	0.15	15.77	17.00	1.327	0.154	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.130	0.16	15.77	17.00	1.327	0.173	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.000	-0.02	15.77	17.00	1.327	0.000	22.5
			Hotspot Test data	<u> </u>							
Front side	20	QPSK 50_0	40620/2593		0.059		15.73	17.00	1.340	0.079	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.125	-0.04	15.73	17.00	1.340	0.167	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.143	0.18	15.73	17.00	1.340	0.192	22.5
Top side		QPSK 50_0	40620/2593	1:1.58	0.000	0.10	15.73	17.00	1.340	0.000	22.5
T-LI- 04 CAD -		Danel 44 faul									

Table 21: SAR of LTE Band 41 for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 87 of 121

9.2.1 SAR Result of LTE Band 66

				LTE Band	66 SAR T	est Record	d				
				An	t 2 Test Re	cord					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	d Test Data	(1RB)				, , ,	
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.779	0.01	20.51	21.70	1.315	1.025	22.2
Left cheek	20	QPSK 1_0	132072/1720	1:1	0.744	0.06	20.46	21.70	1.330	0.990	22.2
Left cheek	20	QPSK 1_0	132572/1770	1:1	0.735	0.02	20.42	21.70	1.343	0.987	22.2
Left cheek-DL CA	20	QPSK 1_0	132572/1770	1:1	0.612	0.01	18.43	19.70	1.340	0.820	22.2
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.169	-0.19	20.51	21.70	1.315	0.222	22.2
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.409	-0.18	20.51	21.70	1.315	0.538	22.2
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.073	-0.18	20.51	21.70	1.315	0.096	22.2
Left cheek	20	QPSK 50 0	132322/1745	1:1	0.409	-0.12	20.46	21.70	1.330	0.544	22.2
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.409	-0.12	20.46	21.70	1.330	0.100	22.2
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.075	-0.10	20.46	21.70	1.330	0.100	22.2
Right tilted	20	QPSK 50_0		1:1	0.056	0.02	20.46	21.70	1.330	0.233	22.2
rtigrit tilled	20	Q1 01(30_0	102022/1140		Test Data(1		20.40	21.70	1.000	0.073	22.2
Left cheek	20	QPSK 100 0	132322/1745	1:1	0.396	-0.11	20.40	21.70	1.349	0.534	22.2
				y worn Tes	t data(Sepa						
Front side	20	QPSK 1_0	132322/1745	1:1	0.074	-0.09	21.54	22.70	1.306	0.097	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.116	0.14	21.54	22.70	1.306	0.152	22.2
Back side-DL CA	20	QPSK 1_0	132322/1745	1:1	0.075	-0.07	19.48	20.70	1.324	0.099	22.2
		_	Body	worn Test	data(Separ	ate 15mm	50%RB)				I.
Front side	20	QPSK 50_0		1:1	0.077	-0.03	20.59	21.70	1.291	0.099	22.2
Back side	20	QPSK 50_0		1:1	0.119	0.01	20.59	21.70	1.291	0.154	22.2
			Но	tspot Test	data(Separ	ate 10mm	1RB)			,	
Front side	20	QPSK 1_0	132322/1745	1:1	0.151	0.12	20.51	21.70	1.315	0.199	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.228	-0.13	20.51	21.70	1.315	0.300	22.2
Right side	20	QPSK 1_0	132322/1745	1:1	0.596	0.17	20.51	21.70	1.315	0.784	22.2
Right side-DL CA	20	QPSK 1_0	132322/1745	1:1	0.468	0.01	18.48	19.70	1.324	0.620	22.2
			Hots	pot Test da	ta(Separat	e 10mm 50)%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.138	-0.13	20.46	21.70	1.330	0.184	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.231	-0.18	20.46	21.70	1.330	0.307	22.2
Right side	20	QPSK 50_0	132322/1745	1:1	0.496	-0.06	20.46	21.70	1.330	0.660	22.2
				An	t 3 Test Re	cord					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	•			Hea	d Test Data	(1RB)	•			,	
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.237	-0.13	17.56	19.00	1.393	0.330	22.2
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.300	0.13	17.56	19.00	1.393	0.418	22.2
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.385	-0.08	17.56	19.00	1.393	0.536	22.2
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.405	0.07	17.56	19.00	1.393	0.564	22.2
Right tilted-ENDC	20	QPSK 1_0	132322/1745	1:1	0.351	0.18	17.15	18.10	1.245	0.437	22.2
				Head	Test Data(50%RB)					
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.240	-0.04	17.43	19.00	1.435	0.345	22.2
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.256	-0.19	17.43	19.00	1.435	0.367	22.2
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.379	0.19	17.43	19.00	1.435	0.544	22.2
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.387	0.18	17.43	19.00	1.435	0.556	22.2
				y worn Tes	t data(Sepa	arate 15mn	n 1RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.338	-0.06	22.88	24.50	1.452	0.491	22.2



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 88 of 121

Back side Mo 20 QPSK 1.0 1332321745 1:1 0.637 -0.04 22.88 24.50 1.452 0.925 22.2 Back side Mo 20 QPSK 1.0 1323221745 1:1 0.543 -0.14 22.73 24.50 1.503 0.816 22.2 Back side D			ı	I		ı	1	1	1		1				
Back side 20		1													
Back side	Back side-ENDC						-0.05		23.60		0.529				
Front side	Back side	20							24.50	1.503	0.816	22.2			
Front side	Back side	20	QPSK 1_0					l .	24.50	1.493	0.763	22.2			
Back side			T		worn Test	data(Separ	ate 15mm	· · · · · · · · · · · · · · · · · · ·	T		1				
Back side 20 QPSK 100_0 133222/1745 1:1	Front side	20		132322/1745			0.09			1.469		22.2			
Back side 20 QPSK 10, Q 133322/1745 1:1 0.502 0.06 21.71 23.50 1.510 0.758 22.2	Back side	20	QPSK 50_0	l					23.50	1.469	0.755	22.2			
Hotspot Test data(Separate 10mm 1RB)			1						ı		1				
Front side 20 QPSK 1_0 1323221745 1:1 0.165 0.002 17.56 19.00 1.933 0.230 22.2	Back side	20	QPSK 100_0	ļ.					23.50	1.510	0.758	22.2			
Back side 20 QPSK 1_0 132322/1745 1:1 0.442 0.04 17.56 19.00 1.393 0.616 22.2		1	T						T		ı				
Left cheek 20		1													
Top side 20 QPSK 1_0 132322/1745 1:1 0.311 0.07 17.56 19.00 1.393 0.628 22.2 HotspotTest data(Separate 10mm 50%RB) Front side 20 QPSK 5_0 0 132322/1745 1:1 0.311 0.07 17.15 18.10 1.245 0.367 22.2 HotspotTest data(Separate 10mm 50%RB) Front side 20 QPSK 5_0 0 132322/1745 1:1 0.47 17.43 19.00 1.435 0.235 22.2 Left side 20 QPSK 5_0 0 132322/1745 1:1 0.072 0.07 17.43 19.00 1.435 0.623 22.2 Left side 20 QPSK 5_0 0 132322/1745 1:1 0.072 0.07 17.43 19.00 1.435 0.623 22.2 Top side 20 QPSK 5_0 0 132322/1745 1:1 0.072 0.07 17.43 19.00 1.435 0.567 22.2 Top side 20 QPSK 5_0 0 132322/1745 1:1 0.072 0.07 17.43 19.00 1.435 0.567 22.2 Amt 4 Test Record Amt 4 Test Record Fest chiffreq, Cycle (Vi/kg) Power (dFm) Limit(dFm) factor (W/kg) 1.49 (1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49		1													
Top side-ENDC 20															
Hotspot Test data(Separate 10mm 50%RB)															
Front side	Top side-ENDC	20	QPSK 1_0						18.10	1.245	0.387	22.2			
Back side			I · · ·		•			· '			I				
Left side 20 QPSK 50_0 132322/1745 1:1 0.072 0.07 17.43 19.00 1.435 0.103 22.2		1													
Top side 20	Left side 20 QPSK 50_0 132322/1745 1:1 0.072 0.07 17.43 19.00 1.435 0.103														
Test position BW. Test mode Test ch/Freq. Duty Cycle SAR Cycle Cycle Wikly Duty Cycle Cycle Wikly Duty Cycle Cycle Wikly Duty Cycle Cycle		_													
Test position BW. Test mode Test ch/Freq. Duty Cycle Cycle (W/kg) Cycle (W/kg) Cycle (W/kg) Cycle Cy	Top side	20	QPSK 50_0	132322/1745				17.43	19.00	1.435	0.587	22.2			
Test position BW. Test mode Test ch / Freq. Cycle Cycle (W/kg) drift (dB) power(dBm) Limit(dBm) Factor Factor (W/kg) drift (dB) power(dBm) Limit(dBm) Factor (W/kg) Limit(dBm)															
Left cheek 20 QPSK 1_0 132322/1745 1:1 0.076 0.06 22.49 24.00 1.416 0.072 22.2	Tack position BW Tack and Tack of Tack														
Head Test Data(1RB)	l est position	BW.	l est mode	rest cn./Freq.	Cycle			Power(dBm)	Limit(dBm)	factor	5AR 1-g (W/kg)	Temp.(℃)			
Left cheek		ļ			Неа			<u> </u>			(VV/Kg)				
Left tilted 20 QPSK 1_0 132322/1745 1:1 0.051 0.03 22.49 24.00 1.416 0.072 22.2 Right cheek 20 QPSK 1_0 132322/1745 1:1 0.079 -0.09 22.49 24.00 1.416 0.112 22.2 Right cheek-ENDC 20 QPSK 1_0 132322/1745 1:1 0.054 -0.18 22.09 23.10 1.262 0.068 22.2 Right tilted 20 QPSK 1_0 132322/1745 1:1 0.039 0.02 22.49 24.00 1.416 0.055 22.2 Head Test Data(50%RB) Left cheek 20 QPSK 5_0 132322/1745 1:1 0.050 -0.01 21.52 23.00 1.406 0.070 22.2 Right cheek 20 QPSK 5_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.070 22.2 Right tilted 20 QPSK 5_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.041 22.2 Right tilted 20 QPSK 5_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.096 22.2 Right tilted 20 QPSK 5_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.073 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.052 0.10 21.52 23.00 1.406 0.073 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.052 0.10 21.52 23.00 1.406 0.073 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.203 0.06 22.49 24.00 1.416 0.287 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.261 -0.10 22.49 24.00 1.416 0.370 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.199 0.13 22.09 23.10 1.262 0.251 22.2 Back side 20 QPSK 5_0 132322/1745 1:1 0.199 0.13 22.09 23.10 1.262 0.251 22.2 Back side 20 QPSK 5_0 132322/1745 1:1 0.199 0.13 22.09 23.10 1.262 0.251 22.2 Back side 20 QPSK 5_0 132322/1745 1:1 0.169 0.06 21.52 23.00 1.406 0.238 22.2 Back side 20 QPSK 5_0 132322/1745 1:1 0.375 0.10 21.62 23.00 1.406 0.238 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.375 0.10 21.62 23.00 1.374 0.660 22.2 Left side 20 QPSK 1_0 132322/1745 1:1 0.480 0.17 21.62 23.00 1.374 0.660 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.480 0.17 21.62 23.00 1.374 0.690 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.480 0.17 21.62 23.00 1.374 0.600 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.575 0.10 21.62 23.00 1.374 0.600 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.585 0.01 21.52 23.00 1.374 0.600 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.585 0.01 21.52 23.00 1.406 0.738 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0	Head Test Data(1RB)														
Right cheek 20															
Right cheek-ENDC 20 QPSK 1_0 132322/1745 1:1 0.054 -0.18 22.09 23.10 1.262 0.068 22.2 Right titled 20 QPSK 1_0 132322/1745 1:1 0.039 0.02 22.49 24.00 1.416 0.055 22.2 Head Test Data(50%RB) Left cheek 20 QPSK 50_0 132322/1745 1:1 0.050 -0.01 21.52 23.00 1.406 0.041 22.2 Right cheek 20 QPSK 50_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.041 22.2 Right cheek 20 QPSK 50_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.041 22.2 Right titled 20 QPSK 50_0 1323322/1745 1:1 0.052 0.10 21.52 23.00 1.406 0.073 22.2 Body worn Test data(Separate 15mm 18B) Front sid															
Right tilted 20		+													
Head Test Data(50%RB) Left cheek 20 QPSK 50_0 132322/1745 1:1 0.050 -0.01 21.52 23.00 1.406 0.070 22.2 Left tilted 20 QPSK 50_0 132322/1745 1:1 0.029 -0.13 21.52 23.00 1.406 0.041 22.2 Right cheek 20 QPSK 50_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.096 22.2 Right tilted 20 QPSK 50_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.096 22.2 Right tilted 20 QPSK 50_0 132322/1745 1:1 0.052 0.10 21.52 23.00 1.406 0.073 22.2 Body worn Test data(Separate 15mm 1RB) Front side 20 QPSK 1_0 132322/1745 1:1 0.203 0.06 22.49 24.00 1.416 0.287 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.261 -0.10 22.49 24.00 1.416 0.370 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.199 0.13 22.09 23.10 1.262 0.251 22.2 Body worn Test data(Separate 15mm 50%RB) Front side 20 QPSK 50_0 132322/1745 1:1 0.169 0.06 21.52 23.00 1.406 0.312 22.2 Back side 20 QPSK 50_0 132322/1745 1:1 0.222 0.11 2.152 23.00 1.406 0.312 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.226 0.11 21.52 23.00 1.374 0.515 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.480 0.17 21.62 23.00 1.374 0.660 22.2 Left side 20 QPSK 1_0 132322/1745 1:1 0.480 0.17 21.62 23.00 1.374 0.660 22.2 Bottom side 20 QPSK 1_0 132322/1745 1:1 0.692 0.01 21.62 23.00 1.374 0.951 22.2 Bottom side 20 QPSK 1_0 132322/1745 1:1 0.692 0.01 21.62 23.00 1.374 0.951 22.2 Bottom side 20 QPSK 1_0 132322/1745 1:1 0.692 0.01 21.62 23.00 1.374 0.951 22.2 Bottom side 20 QPSK 5_0 132322/1745 1:1 0.691 0.02 21.49 23.00 1.406 0.738 22.2 Bottom side 20 QPSK 5_0 132322/1745 1:1 0.491 0.01 21.51 23.00 1.409 0.543 22.2 Bottom side 20 QPSK 5_0		_													
Left cheek 20 QPSK 50_0 132322/1745 1:1 0.050 -0.01 21.52 23.00 1.406 0.070 22.2 Left tilted 20 QPSK 50_0 132322/1745 1:1 0.029 -0.13 21.52 23.00 1.406 0.041 22.2 Right cheek 20 QPSK 50_0 132322/1745 1:1 0.088 -0.13 21.52 23.00 1.406 0.096 22.2 Body worn Test data(Separate 15mm 1RB) Front side 20 QPSK 1_0 132322/1745 1:1 0.203 0.06 22.49 24.00 1.416 0.287 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.261 -0.10 22.49 24.00 1.416 0.370 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.19 0.13 22.09 23.10 1.262 0.251 22.2 Back side 20 QPSK 50_0	Trigin tinou		GI OIT I_0	102022/17 10				22.10	21.00	1.110	0.000				
Left tilted 20 QPSK 50_0 132322/1745 1:1 0.029 -0.13 21.52 23.00 1.406 0.041 22.2 Right cheek 20 QPSK 50_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.096 22.2 Right tilted 20 QPSK 50_0 132322/1745 1:1 0.052 0.10 21.52 23.00 1.406 0.096 22.2 Body worn Test data(Separate 15mm 1RB) Front side 20 QPSK 1_0 132322/1745 1:1 0.203 0.06 22.49 24.00 1.416 0.287 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.199 0.13 22.09 23.10 1.262 0.251 22.2 Back side PSK 50_0 132322/1745 1:1 0.169 0.06 21.52 23.00 1.406 0.238 22.2 Back side 20 QPSK 50_0 132322/1745 1:1	Left cheek	20	OPSK 50_0	132322/1745		,	· · · · · ·	21.52	23.00	1 406	0.070	22.2			
Right cheek 20 QPSK 50_0 132322/1745 1:1 0.068 -0.13 21.52 23.00 1.406 0.096 22.2 Right tilted 20 QPSK 50_0 132322/1745 1:1 0.052 0.10 21.52 23.00 1.406 0.073 22.2 Body worn Test data(Separate 15mm 1RB) Front side 20 QPSK 1_0 132322/1745 1:1 0.203 0.06 22.49 24.00 1.416 0.287 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.261 -0.10 22.49 24.00 1.416 0.370 22.2 Back side 20 QPSK 1_0 132322/1745 1:1 0.199 0.13 22.09 23.10 1.262 0.251 22.2 Body worn Test data(Separate 15mm 50%RB) Front side 20 QPSK 50_0 132322/1745 1:1 0.169 0.06 21.52 23.00 1.406 0.312 22.2															



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 89 of 121

_		T = = = :	1		1		_		1	1				
Bottom side	20		132572/1770	1:1	0.730	0.01	21.47	23.00	1.422	1.038	22.2			
Bottom side-ENDC	20	QPSK 50_0	132572/1770	1:1	0.531	0.12	21.13	22.10	1.250	0.664	22.2			
				oot Test da	ta(Separate	10mm 10	0%RB)							
Bottom side	20	QPSK 100_0	132322/1745	1:1	0.658	0.08	21.45	23.00	1.429	0.940	22.2			
				An	t 5 Test Re	cord								
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
				Hea	d Test Data	(1RB)				,				
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.190	-0.01	20.18	21.50	1.355	0.257	22.2			
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.065	0.06	20.18	21.50	1.355	0.088	22.2			
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.473	-0.01	20.18	21.50	1.355	0.641	22.2			
Right cheek-DL CA	20	QPSK 1_0	132322/1745	1:1	0.268	0.11	17.80	19.20	1.380	0.370	22.2			
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.149	0.02	20.18	21.50	1.355	0.202	22.2			
				Head	Test Data(5	50%RB)								
Left cheek														
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.098	-0.08	20.17	21.50	1.358	0.133	22.2			
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.410	-0.06	20.17	21.50	1.358	0.557	22.2			
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.162	-0.06	20.17	21.50	1.358	0.220	22.2			
			Bod	y worn Tes	t data(Sepa	arate 15mr	n 1RB)							
Front side	20	QPSK 1_0	132322/1745	1:1	0.074	0.02	20.18	21.50	1.355	0.100	22.2			
Back side	20	QPSK 1_0	132322/1745	1:1	0.104	-0.16	20.18	21.50	1.355	0.141	22.2			
			·	worn Test	data(Separa	ate 15mm	50%RB)							
Front side	20	QPSK 50_0	132322/1745	1:1	0.076	0.19	20.17	21.50	1.358	0.103	22.2			
Back side	20		132322/1745	1:1	0.105	0.12	20.17	21.50	1.358	0.143	22.2			
Back side-DL CA	20	QPSK 50_0		1:1	0.078	-0.01	17.50	19.20	1.479	0.115	22.2			
					data(Separa	ate 10mm	1RB)							
Front side	20	QPSK 1_0	132322/1745	1:1	0.145	-0.15	20.18	21.50	1.355	0.197	22.2			
Back side	20	QPSK 1_0	132322/1745	1:1	0.246	-0.10	20.18	21.50	1.355	0.333	22.2			
Left side	20	QPSK 1_0	132322/1745	1:1	0.318	0.15	20.18	21.50	1.355	0.431	22.2			
Top side	20	QPSK 1_0	132322/1745	1:1	0.000	-0.04	20.18	21.50	1.355	0.000	22.2			
			Hots	pot Test da	ata(Separat	e 10mm 50	0%RB)							
Front side	20		132322/1745	1:1	0.149	-0.02	20.17	21.50	1.358	0.202	22.2			
Back side	20		132322/1745	1:1	0.274	0.10	20.17	21.50	1.358	0.372	22.2			
Left side	20		132322/1745	1:1	0.324	0.07	20.17	21.50	1.358	0.440	22.2			
Left side-DL CA	20		132322/1745	1:1	0.295	-0.10	17.50	19.20	1.479	0.436	22.2			
Top side	20		132322/1745	1:1	0.000	-0.03	20.17	21.50	1.358	0.000	22.2			

Table 22: SAR of LTE Band 66 for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 90 of 121

9.2.1 SAR Result of 5G NR n5

				SA I	N5 SAR T	est Reco	rd				
					Ant0 Test						
Test position	BW.	Modulation	Test ch./Freq.	Duty	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				He	ead Test d	lata(1RB)					
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.287	-0.12	24.64	25.50	1.219	0.350	22.5
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.147	0.13	24.64	25.50	1.219	0.179	22.5
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.291	0.07	24.64	25.50	1.219	0.355	22.5
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.181	0.05	24.64	25.50	1.219	0.221	22.5
				Hea	ad Test da	ta(50%RE	3)	,			
Left cheek			167300/836.5	1:1	0.297	0.01	24.61	25.50	1.227	0.365	22.5
Left tilted			167300/836.5	1:1	0.136	0.06	24.61	25.50	1.227	0.167	22.5
Right cheek	20	QPSK 50_28	167300/836.5	1:1	0.307	-0.02	24.61	25.50	1.227	0.377	22.5
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.191	0.05	24.61	25.50	1.227	0.234	22.5
		T		y worn T	, ,		5mm 1RB)			,	
Front side	20	QPSK 1_1	167300/836.5	1:1	0.252	0.01	24.64	25.50	1.219	0.307	22.5
Back side	20	QPSK 1_1	167300/836.5	1:1	0.266	0.09	24.64	25.50	1.219	0.324	22.5
		1		worn Tes	T		mm 50%RB)			1	
Front side			167300/836.5	1:1	0.243	-0.12	24.61	25.50	1.227	0.298	22.5
Back side	20	QPSK 50_28	167300/836.5	1:1	0.252	0.10	24.61	25.50	1.227	0.309	22.5
		Ī		tspot Tes	st data(Se		, ,				
Front side	20	QPSK 1_1	167300/836.5	1:1	0.271	0.04	24.64	25.50	1.219	0.330	22.5
Back side	20	QPSK 1_1	167300/836.5	1:1	0.497	-0.03	24.64	25.50	1.219	0.606	22.5
Right side	20	QPSK 1_1	167300/836.5	1:1	0.413	-0.10	24.64	25.50	1.219	0.503	22.5
Bottom side	20	QPSK 1_1	167300/836.5	1:1	0.315	0.03	24.64	25.50	1.219	0.384	22.5
	ı	1					m 50%RB)			1	
Front side			167300/836.5	1:1	0.357	-0.12	24.61	25.50	1.227	0.438	22.5
Back side	-		167300/836.5	1:1	0.503	0.13	24.61	25.50	1.227	0.617	22.5
Right side			167300/836.5	1:1	0.403	0.14	24.61	25.50	1.227	0.495	22.5
Bottom side	20	QPSK 50_28	167300/836.5	1:1	0.304	0.04	24.61	25.50	1.227	0.373	22.5
		1	1	· · · · · ·	Ant1 Test	r	1				
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				He	ead Test d	lata(1RB)					
Left cheek	20	QPSK 1_1	167300/836.5	1:1	0.868	-0.17	22.22	22.70	1.117	0.969	22.5
Left tilted	20	QPSK 1_1	167300/836.5	1:1	0.103	-0.10	22.22	22.70	1.117	0.115	22.5
Right cheek	20	QPSK 1_1	167300/836.5	1:1	0.586	-0.07	22.22	22.70	1.117	0.654	22.5
Right tilted	20	QPSK 1_1	167300/836.5	1:1	0.077	-0.03	22.22	22.70	1.117	0.086	22.5
		T	T		ad Test da			1		1	
Left cheek			167300/836.5	1:1	0.874	0.02	22.20	22.70	1.122	0.981	22.5
Left cheek-repeated	20	QPSK 50_28	167300/836.5	1:1	0.864	0.01	22.20	22.70	1.122	0.969	22.5
Left tilted	20	QPSK 50_28	167300/836.5	1:1	0.088	-0.18	22.20	22.70	1.122	0.099	22.5
Right cheek			167300/836.5	1:1	0.568	0.11	22.20	22.70	1.122	0.637	22.5
Right tilted	20	QPSK 50_28	167300/836.5	1:1	0.090	-0.15	22.20	22.70	1.122	0.101	22.5
		1	I		ad Test da			1		1	
Left cheek	20	QPSK 100_0	167300/836.5 Bod	1:1 y worn T	0.861 est data(S	0.02 eparate 1	22.19 5mm 1RB)	22.70	1.125	0.968	22.5
Front side	20	QPSK 1_1	167300/836.5	1:1	0.170	0.16	22.22	22.70	1.117	0.190	22.5
Back side	20	QPSK 1_1	167300/836.5	1:1	0.297	0.19	22.22	22.70	1.117	0.332	22.5
							mm 50%RB)	-			
Front side	20	QPSK 50 28	167300/836.5		0.202	-0.14	22.20	22.70	1.122	0.227	22.5
	•				•	•	•	•			



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 91 of 121

		1									
Back side	20	QPSK 50_28	167300/836.5	1:1	0.359	-0.10	22.20	22.70	1.122	0.403	22.5
			Hot	spot Tes	st data(Ser	oarate 10r	nm 1RB)				
Front side	20	QPSK 1_1	167300/836.5	1:1	0.263	-0.10	22.22	22.70	1.117	0.294	22.5
Back side	20	QPSK 1_1	167300/836.5	1:1	0.379	-0.08	22.22	22.70	1.117	0.423	22.5
Left side	20	QPSK 1_1	167300/836.5	1:1	0.537	-0.19	22.22	22.70	1.117	0.600	22.5
			Hotsp	ot Test	data (Sepa	arate 10m	m 50%RB)				
Front side	20	QPSK 50_28	167300/836.5	1:1	0.445	0.02	22.20	22.70	1.122	0.499	22.5
Back side	20	QPSK 50_28	167300/836.5	1:1	0.702	-0.19	22.20	22.70	1.122	0.788	22.5
Left side	20	QPSK 50_28	167300/836.5	1:1	0.903	0.19	22.20	22.70	1.122	1.013	22.5
			Hotspo	ot Test o	data (Sepa	rate 10mr	n 100%RB)				
Left side	20	QPSK 100_0	167300/836.5	1:1	0.872	-0.14	22.13	22.70	1.140	0.994	22.5

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

Test Position	Channel/ Frequency	Measured SAR	1st Repeated	Datia	2 nd Repeated	3 rd Repeated
lest Position	(MHz)	(1g)	SAR (1g)	Ratio	SAR (1g)	SAR (1g)
Left cheek	167300/836.5	0.874	0.864	1.011574074	N/A	N/A

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 92 of 121

9.2.2 SAR Result of 5G NR n7

			SA N	7 SAR 1	Test Rec	ord					
			Aı	nt2 Test	Record	l					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
	T	1			data(1RI	T T		1	T	l	
Left cheek	40	QPSK 1_1	507000/2535	1:1	0.307	-0.18	17.98	19.00	1.265	0.388	22.1
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.106	0.07	17.98	19.00	1.265	0.134	22.1
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.481	0.13	17.98	19.00	1.265	0.608	22.1
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.069	0.18	17.98	19.00	1.265	0.087	22.1
1.6.1.1	10	0001/ 100 51			ata(50%l	· '	17.00	10.00	1 074	0.440	00.4
Left cheek	40	QPSK 108_54	507000/2535	1:1	0.324	-0.13	17.96	19.00	1.271	0.412	22.1
Left tilted	40	QPSK 108_54	507000/2535	1:1	0.096	-0.11	17.96	19.00	1.271	0.122	22.1
Right cheek	40	QPSK 108_54	507000/2535	1:1	0.510	-0.09	17.96	19.00	1.271	0.648	22.1
Right tilted	40	QPSK 108_54	507000/2535	1:1	0.060	0.07	17.96	19.00	1.271	0.076	22.1
Facataida	10	ODCK 4. 4	Body worn Te	T ,			1 1	20.00	4.070	0.400	00.4
Front side	40	QPSK 1_1	507000/2535	1:1	0.104	0.07	18.93	20.00	1.278	0.133	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.175	-0.10	18.93	20.00	1.278	0.224	22.1
Front oids	40	QPSK 108 54	Body worn Test				, ,	20.00	1 205	0.462	22.4
Front side Back side	40	_	507000/2535 507000/2535	1:1	0.127 0.192	0.19	18.91 18.91	20.00	1.285 1.285	0.163 0.247	22.1 22.1
Dack side	40	QPSK 108_54	Hotspot Test				•	20.00	1.200	0.247	22.1
Front side	40	QPSK 1_1	507000/2535		0.155	0.06	17.98	19.00	1.265	0.196	22.1
Back side	40	QPSK 1_1	507000/2535	1:1 1:1	0.199	0.00	17.98	19.00	1.265	0.196	22.1
Right side	40	QPSK 1_1	507000/2535	1:1	0.199	-0.05	17.98	19.00	1.265	0.232	22.1
Right side	40	QF3K I_I	Hotspot Test da	1			l	19.00	1.203	0.575	22.1
Front side	40	QPSK 108_54	507000/2535	1:1	0.148	-0.05	17.96	19.00	1.271	0.188	22.1
Back side	40	QPSK 108_54	507000/2535	1:1	0.140	0.03	17.96	19.00	1.271	0.1335	22.1
Right side	40	QPSK 108_54	507000/2535	1:1	0.495	-0.04	17.96	19.00	1.271	0.629	22.1
Trigiti oldo	1-0	Q1 010 100_04			Record		17.50	10.00	1.271	0.020	22.1
			,							Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		SAR 1- g (W/kg)	Liquid Temp.(℃)
	•		Hea	ad Test	data(1RI	3)			•		
Left cheek	40	QPSK 1_1	507000/2535	1:1	0.413	-0.10	17.48	18.00	1.127	0.466	22.1
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.430	-0.08	17.48	18.00	1.127	0.485	22.1
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.801	-0.13	17.48	18.00	1.127	0.903	22.1
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.716	0.10	17.48	18.00	1.127	0.807	22.1
	1	T			ata(50%l			1	1	T	
Left cheek	40	QPSK 108_54	507000/2535	1:1	0.368	-0.10	17.41	18.00	1.146	0.422	22.1
Left tilted	40	QPSK 108_54	507000/2535	1:1	0.373	0.13	17.41	18.00	1.146	0.427	22.1
Right cheek	40	QPSK 108_54	507000/2535	1:1	0.573	-0.01	17.41	18.00	1.146	0.656	22.1
Right tilted	40	QPSK 108_54	507000/2535	1:1	0.707	-0.12	17.41	18.00	1.146	0.810	22.1
	ı	T			ta(100%		T	T	1	ı	
Right cheek	40	QPSK 216_0	507000/2535	1:1	0.805	0.03	18.30	19.00	1.175	0.946	22.1
ight cheek-repeated	40	QPSK 216_0	507000/2535	1:1	0.794	0.02	18.30	19.00	1.175	0.933	22.1
Right tilted	40	QPSK 216_0	507000/2535	1:1	0.753	-0.07	18.30	19.00	1.175	0.885	22.1
		ODOLL :	Body worn Tes	1				0=		0.010	ac :
Front side	40	QPSK 1_1	507000/2535	1:1	0.288	0.11	24.76	25.50	1.186	0.342	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.617	0.05	24.76	25.50	1.186	0.732	22.1
Frank of the	10	ODOK 400 51	Body worn Test					05.50	4 400	0.047	00.4
Front side	40	QPSK 108_54	507000/2535	1:1	0.267	-0.14	24.75	25.50	1.189	0.317	22.1



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 93 of 121

	i	T	,				1	1			1
Back side	40	QPSK 108_54	507000/2535	1:1	0.532	-0.17	24.75	25.50	1.189	0.632	22.1
			Hotspot Test		-	1				1	ı
Front side	40	QPSK 1_1	507000/2535	1:1	0.133	0.18	17.48	18.00	1.127	0.150	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.228	0.19	17.48	18.00	1.127	0.257	22.1
Left side	40	QPSK 1_1	507000/2535	1:1	0.060	-0.04	17.48	18.00	1.127	0.068	22.1
Top side	40	QPSK 1_1	507000/2535	1:1	0.237	-0.16	17.48	18.00	1.127	0.267	22.1
			Hotspot Test da							1	Т
Front side	40	QPSK 108_54	507000/2535	1:1	0.135	-0.03	17.41	18.00	1.146	0.155	22.1
Back side	40	QPSK 108_54	507000/2535	1:1	0.305	-0.01	17.41	18.00	1.146	0.349	22.1
Left side	40	QPSK 108_54	507000/2535	1:1	0.059	0.14	17.41	18.00	1.146	0.068	22.1
Top side	40	QPSK 108_54	507000/2535	1:1	0.266	0.12	17.41	18.00	1.146	0.305	22.1
		1	An	it4 Test	Record	1	1	1		1	i
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
			Hea	d Test	data(1RI	3)					
Left cheek	40	QPSK 1_1	507000/2535	1:1	0.185	-0.06	24.97	25.70	1.183	0.219	22.1
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.070	0.17	24.97	25.70	1.183	0.083	22.1
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.170	-0.09	24.97	25.70	1.183	0.201	22.1
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.094	0.15	24.97	25.70	1.183	0.111	22.1
			Head	Test da	ata(50%l	RB)					
Left cheek	40	QPSK 108_54	507000/2535	1:1	0.246	-0.14	24.95	25.70	1.189	0.292	22.1
Left tilted	40	QPSK 108_54	507000/2535	1:1	0.063	0.10	24.95	25.70	1.189	0.075	22.1
Right cheek	40	QPSK 108_54	507000/2535	1:1	0.171	-0.13	24.95	25.70	1.189	0.203	22.1
Right tilted	40	QPSK 108_54	507000/2535	1:1	0.102	-0.18	24.95	25.70	1.189	0.121	22.1
			Body worn Tes	st data(S	Separate	15mm	1RB)				
Front side	40	QPSK 1_1	507000/2535	1:1	0.283	-0.11	24.97	25.70	1.183	0.335	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.468	-0.17	24.97	25.70	1.183	0.554	22.1
			Body worn Test of	data (Se	eparate 1	15mm 50)%RB)				
Front side	40	QPSK 108_54	507000/2535	1:1	0.251	-0.14	24.95	25.70	1.189	0.298	22.1
Back side	40	QPSK 108_54	507000/2535	1:1	0.340	-0.08	24.95	25.70	1.189	0.404	22.1
			Hotspot Test	data(Se	parate 1	0mm 1	RB)				
Front side	40	QPSK 1_1	507000/2535	1:1	0.197	0.19	20.23	20.70	1.114	0.220	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.307	-0.08	20.23	20.70	1.114	0.342	22.1
Left side	40	QPSK 1_1	507000/2535	1:1	0.074	0.05	20.23	20.70	1.114	0.082	22.1
Bottom side	40	QPSK 1_1	507000/2535	1:1	0.335	-0.16	20.23	20.70	1.114	0.373	22.1
			Hotspot Test da	ıta (Sep	arate 10	mm 509	%RB)				
Front side	40	QPSK 108_54	507000/2535	1:1	0.190	0.18	20.21	20.70	1.119	0.213	22.1
Back side	40	QPSK 108_54	507000/2535	1:1	0.278	-0.05	20.21	20.70	1.119	0.311	22.1
Left side	40	QPSK 108_54	507000/2535	1:1	0.077	-0.10	20.21	20.70	1.119	0.086	22.1
Bottom side	40	QPSK 108_54	507000/2535	1:1	0.357	0.10	20.21	20.70	1.119	0.400	22.1
			Ar	t5 Test	Record		,		1	1	1
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
			Hea	d Test	data(1RI	3)					
Left cheek	40	QPSK 1_1	507000/2535	1:1	0.174	-0.06	16.93	17.70	1.194	0.208	22.1
Left tilted	40	QPSK 1_1	507000/2535	1:1	0.103	0.00	16.93	17.70	1.194	0.123	22.1
Right cheek	40	QPSK 1_1	507000/2535	1:1	0.594	-0.19	16.93	17.70	1.194	0.709	22.1
Right tilted	40	QPSK 1_1	507000/2535	1:1	0.176	0.01	16.93	17.70	1.194	0.210	22.1
				Test da	ata(50%l	RB)					
Left cheek	40	QPSK 108_54	507000/2535	1:1	0.147	0.07	16.91	17.70	1.199	0.176	22.1



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 94 of 121

Right cheek	40	QPSK 108_54	507000/2535	1:1	0.443	-0.06	16.91	17.70	1.199	0.531	22.1
Right tilted	40	QPSK 108_54	507000/2535	1:1	0.169	-0.18	16.91	17.70	1.199	0.203	22.1
			Head	Test da	ta(100%	RB)					
Right cheek	40	QPSK 216_0	507000/2535	1:1	0.463	-0.10	16.76	17.70	1.242	0.575	22.1
	•		Body worn Tes	st data(Separate	15mm	1RB)		,		
Front side	40	QPSK 1_1	507000/2535	1:1	0.112	-0.06	19.89	20.70	1.205	0.135	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.187	0.00	19.89	20.70	1.205	0.225	22.1
			Body worn Test	data (Se	eparate 1	5mm 50	0%RB)				
Front side	40	QPSK 108_54	507000/2535	1:1	0.103	0.11	19.88	20.70	1.208	0.124	22.1
Back side	40	QPSK 108_54	507000/2535	1:1	0.180	-0.03	19.88	20.70	1.208	0.217	22.1
		•	Hotspot Test	data(Se	eparate 1	0mm 1F	RB)		•		
Front side	40	QPSK 1_1	507000/2535	1:1	0.127	-0.11	16.93	17.70	1.194	0.152	22.1
Back side	40	QPSK 1_1	507000/2535	1:1	0.258	-0.02	16.93	17.70	1.194	0.308	22.1
Left side	40	QPSK 1_1	507000/2535	1:1	0.267	-0.03	16.93	17.70	1.194	0.319	22.1
Top side	40	QPSK 1_1	507000/2535	1:1	0.061	0.02	16.93	17.70	1.194	0.073	22.1
	•		Hotspot Test da	ata (Sep	parate 10	mm 50%	%RB)				
Front side	40	QPSK 108_54	507000/2535	1:1	0.129	-0.05	16.91	17.70	1.199	0.155	22.1
Back side	40	QPSK 108_54	507000/2535	1:1	0.288	0.00	16.91	17.70	1.199	0.345	22.1
Left side	40	QPSK 108_54	507000/2535	1:1	0.273	-0.13	16.91	17.70	1.199	0.327	22.1
Top side	40	QPSK 108_54	507000/2535	1:1	0.082	-0.01	16.91	17.70	1.199	0.098	22.1

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

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	507000/2535	0.805	0.794	1.013853904	N/A	N/A

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 95 of 121

9.2.3 SAR Result of 5G NR n41

				S	A N41 SAF	R Test Rec	ord				
					Ant2 Te	st Record					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.408	0.05	18.45	19.50	1.274	0.520	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.125	-0.06	18.45	19.50	1.274	0.159	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.675	0.14	18.45	19.50	1.274	0.860	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.074	-0.17	18.45	19.50	1.274	0.094	22.2
				ŀ	Head Test	data(50%F	RB)				
Left cheek			518598/2592.99	1:1	0.321	-0.14	18.42	19.50	1.282	0.412	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.089	0.03	18.42	19.50	1.282	0.114	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.782	0.11	18.42	19.50	1.282	1.003	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.071	-0.05	18.42	19.50	1.282	0.091	22.2
				H	lead Test c	lata(100%l	RB)				
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.807	0.13	18.38	19.50	1.294	1.044	22.2
			E	Body wor	n Test data	(Separate	15mm 1RB)				
Front side	100		518598/2592.99	1:1	0.162	0.08	18.93	20.00	1.279	0.207	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.259	-0.12	18.93	20.00	1.279	0.331	22.2
				dy worn	Test data(S	Separate 1	5mm 50%RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.159	-0.14	18.87	20.00	1.297	0.206	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.262	0.15	18.87	20.00	1.297	0.340	22.2
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.195	-0.13	18.45	19.50	1.274	0.248	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.312	0.11	18.45	19.50	1.274	0.397	22.2
Right side	100	QPSK 1_1	518598/2592.99	1:1	0.545	0.02	18.45	19.50	1.274	0.694	22.2
			Н	otspot Te	est data (Se	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.215	-0.08	18.42	19.50	1.282	0.276	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.347	-0.16	18.42	19.50	1.282	0.445	22.2
Right side	100	QPSK 135_69	518598/2592.99	1:1	0.523	0.12	18.42	19.50	1.282	0.671	22.2
	•				Ant3 Te	st Record					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.214	0.02	16.81	17.50	1.172	0.251	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.209	-0.04	16.81	17.50	1.172	0.245	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.385	0.17	16.81	17.50	1.172	0.451	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.404	0.00	16.81	17.50	1.172	0.474	22.2
					Head Test	data(50%F					
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.197	-0.18	16.78	17.50	1.180	0.233	22.2
Left tilted			518598/2592.99		0.209	0.18	16.78	17.50	1.180	0.247	22.2
Right cheek	100	QPSK 135_69	518598/2592.99	1:1	0.382	0.13	16.78	17.50	1.180	0.451	22.2
Right tilted			518598/2592.99		0.410	-0.19	16.78	17.50	1.180	0.484	22.2
				Body wor	n Test data	(Separate	15mm 1RB)		•		
Front side	100	QPSK 1_1	518598/2592.99		0.285	-0.13	23.99	25.50	1.416	0.404	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.623	-0.02	23.99	25.50	1.416	0.882	22.2
		_					5mm 50%RB)		l.		
Front side	100	QPSK 135 69	518598/2592.99		0.332	0.01	23.98	25.50	1.419	0.471	22.2
Back side	_		518598/2592.99	1:1	0.601	-0.02	23.98	25.50	1.419	0.853	22.2
							5mm 50%RB)		- 1		
Back side	100	QPSK 270 0	518598/2592.99		0.589	0.04	22.96	24.50	1.426	0.840	22.2
									-	-	



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 96 of 121

				Hotspot [*]	Test data(S	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.089	-0.04	16.81	17.50	1.172	0.104	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.218	-0.09	16.81	17.50	1.172	0.256	22.2
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.055	-0.07	16.81	17.50	1.172	0.064	22.2
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.190	0.08	16.81	17.50	1.172	0.223	22.2
-		•	H	otspot Te	est data (Se	parate 10	mm 50%RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.097	-0.01	16.78	17.50	1.180	0.114	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.204	-0.18	16.78	17.50	1.180	0.241	22.2
Left side	_		518598/2592.99	1:1	0.076	-0.13	16.78	17.50	1.180	0.090	22.2
Top side	100	QPSK 135 69	518598/2592.99	1:1	0.199	-0.05	16.78	17.50	1.180	0.235	22.2
		_			Ant4 Tes	st Record					
					SAR	Power		_		Scaled	Linuid
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	(W/kg)	drift	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	SAR 1-g	Liquid Temp.(℃)
					1-g	(dB)	. ,			(W/kg)	. , ,
1 6 1 1	1400	00014.4	F.4.0F.0.0/0.F.0.0.0.0	4.4	Head Tes		1	05.70	4.005	0.045	00.0
Left cheek	100		518598/2592.99	1:1	0.286	0.03	24.89	25.70	1.205	0.345	22.2
Left tilted	100		518598/2592.99	1:1	0.088	0.14	24.89	25.70	1.205	0.106	22.2
Right cheek	100	_	518598/2592.99	1:1	0.210	0.00	24.89	25.70	1.205	0.253	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.108	0.05	24.89	25.70	1.205	0.130	22.2
L					lead Test	`			1		
Left cheek	_		518598/2592.99	1:1	0.278	0.17	24.82	25.70	1.225	0.340	22.2
Left tilted			518598/2592.99	1:1	0.083	-0.03	24.82	25.70	1.225	0.102	22.2
Right cheek	-		518598/2592.99	1:1	0.193	-0.04	24.82	25.70	1.225	0.236	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.094	0.05	24.82	25.70	1.225	0.115	22.2
	ı	T					15mm 1RB)		1		
Front side	100	_	518598/2592.99	1:1	0.325	0.08	24.89	25.70	1.205	0.392	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.496	0.14	24.89	25.70	1.205	0.598	22.2
		T =					5mm 50%RB)				
Front side		_	518598/2592.99	1:1	0.342	-0.14	24.82	25.70	1.225	0.419	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.521	-0.09	24.82	25.70	1.225	0.638	22.2
	Ι	T			Test data(S				T 1		
Front side	100		518598/2592.99	1:1	0.200	0.04	20.77	20.70	0.984	0.197	22.2
Back side	100		518598/2592.99	1:1	0.318	-0.19	20.77	20.70	0.984	0.313	22.2
Left side	100		518598/2592.99	1:1	0.083	0.12	20.77	20.70	0.984	0.082	22.2
Bottom side	100	QPSK 1_1	518598/2592.99	1:1	0.358	0.06	20.77	20.70	0.984	0.352	22.2
		ı					mm 50%RB)		ı		T
Front side			518598/2592.99	1:1	0.204	-0.09	20.69	20.70	1.002	0.204	22.2
Back side	-	_	518598/2592.99	1:1	0.322	-0.17	20.69	20.70	1.002	0.323	22.2
Left side			518598/2592.99	1:1	0.073	0.00	20.69	20.70	1.002	0.073	22.2
Bottom side	100	QPSK 135_69	518598/2592.99	1:1	0.374	0.09	20.69	20.70	1.002	0.375	22.2
						st Record					
T = 4 :: 141	D	B	T	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)		factor	SAR 1-g	Temp.(℃)
					1-g	(dB))			(W/kg)	
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	Head Tes 0.119	-0.10	17.26	18.30	1.271	0.151	22.2
Left tilted	100	QPSK 1_1	518598/2592.99		0.119	0.11	17.26	18.30	1.271	0.103	22.2
Right cheek	100		518598/2592.99	1:1 1:1	0.081	-0.09	17.26	18.30	1.271	0.103	22.2
	100	QPSK 1_1 QPSK 1_1				0.10					22.2
Right tilted	100	ערטת ו_ו	518598/2592.99	1:1	0.154 Head Test of		17.26	18.30	1.271	0.196	<i>LL.L</i>
Loft chool:	100	OBSK 125 60	518598/2592.99				· '	10 20	1 270	0.122	22.2
Left cheek	1			1:1	0.104	-0.06	17.23	18.30	1.279	0.133	22.2
Left tilted			518598/2592.99	1:1	0.061	-0.13	17.23	18.30	1.279	0.078	22.2
Right cheek			518598/2592.99	1:1	0.365	-0.08	17.23	18.30	1.279	0.467	22.2
Right tilted	100	WHOK 135_69	518598/2592.99	1:1	0.151	0.06	17.23	18.30	1.279	0.193	22.2
				Н	lead Test d	ata(100%l	ζ Β)				



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 97 of 121

							1				ı
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.452	0.16	17.19	18.30	1.291	0.584	22.2
			Е	ody wor	n Test data	(Separate	15mm 1RB)				
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.102	0.07	20.21	21.30	1.285	0.131	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.177	-0.07	20.21	21.30	1.285	0.227	22.2
			Boo	dy worn ⁻	Test data (S	Separate 1	5mm 50%RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.090	0.06	20.19	21.30	1.291	0.116	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.149	0.03	20.19	21.30	1.291	0.192	22.2
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.103	-0.06	17.26	18.30	1.271	0.131	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.197	0.05	17.26	18.30	1.271	0.250	22.2
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.215	0.18	17.26	18.30	1.271	0.273	22.2
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.062	-0.16	17.26	18.30	1.271	0.079	22.2
			H	otspot Te	est data (Se	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.090	-0.02	17.23	18.30	1.279	0.115	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.187	0.09	17.23	18.30	1.279	0.239	22.2
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.225	-0.07	17.23	18.30	1.279	0.288	22.2
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.045	0.05	17.23	18.30	1.279	0.058	22.2

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



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 98 of 121

9.2.4 SAR Result of 5G NR n66

					66 SAR Te		d				
				Aı	nt2 Test R	ecord					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Hea	ad Test da	ta(1RB)					
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.506	0.12	19.53	20.50	1.250	0.633	22.1
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.109	-0.01	19.53	20.50	1.250	0.136	22.1
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.286	0.07	19.53	20.50	1.250	0.358	22.1
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.084	0.08	19.53	20.50	1.250	0.105	22.1
				Head	Test data	(50%RB)					
Left cheek		QPSK 108_54		1:1	0.459	-0.10	19.42	20.50	1.282	0.589	22.1
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.114	0.15	19.42	20.50	1.282	0.146	22.1
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.233	0.18	19.42	20.50	1.282	0.299	22.1
Right tilted	40	QPSK 108_54		1:1	0.071	0.01	19.42	20.50	1.282	0.091	22.1
				worn Te	st data(Se	parate 15	mm 1RB)				
Front side	40	QPSK 1_1	349000/1745	1:1	0.070	0.17	19.53	20.50	1.250	0.088	22.1
Back side	40	QPSK 1_1	349000/1745	1:1	0.110	0.06	19.53	20.50	1.250	0.138	22.1
				orn Test	data(Sepa		m 50%RB)				
Front side		QPSK 108_54		1:1	0.088	0.12	19.42	20.50	1.282	0.113	22.1
Back side	40	QPSK 108_54		1:1	0.115	-0.17	19.42	20.50	1.282	0.147	22.1
	,			pot Test	data(Sepa		m 1RB)				
Front side	40	QPSK 1_1	349000/1745	1:1	0.143	0.08	19.53	20.50	1.250	0.179	22.1
Back side	40	QPSK 1_1	349000/1745	1:1	0.195	0.06	19.53	20.50	1.250	0.244	22.1
Right side	40	QPSK 1_1	349000/1745	1:1	0.371	-0.04	19.53	20.50	1.250	0.464	22.1
		•		ot Test d	ata (Separ	ate 10mm					1
Front side		QPSK 108_54		1:1	0.165	0.18	19.42	20.50	1.282	0.212	22.1
Back side		QPSK 108_54		1:1	0.245	0.08	19.42	20.50	1.282	0.314	22.1
Right side	40	QPSK 108_54	349000/1745	1:1	0.405	-0.12	19.42	20.50	1.282	0.519	22.1
	1			Aı	nt3 Test R	1	1				
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
	!			Hea	ad Test dat					, . <u>J</u> ,	<u> </u>
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.507	0.06	18.37	19.00	1.156	0.586	22.1
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.548	-0.01	18.37	19.00	1.156	0.634	22.1
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.703	-0.01	18.37	19.00	1.156	0.813	22.1
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.901	-0.03	18.37	19.00	1.156	1.042	22.1
Right tilted-repeated	40	QPSK 1_1	349000/1745	1:1	0.899	-0.03	18.37	19.00	1.156	1.039	22.1
				Head	Test data	(50%RB)					
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.545	0.11	18.36	19.00	1.159	0.632	22.1
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.602	0.02	18.36	19.00	1.159	0.698	22.1
Right cheek		QPSK 108_54		1:1	0.755	0.07	18.36	19.00	1.159	0.875	22.1
Right tilted		QPSK 108_54		1:1	0.752	-0.18	18.36	19.00	1.159	0.871	22.1
				Head	Test data(100%RB)					
Right cheek	40	QPSK 216_0	349000/1745	1:1	0.754	0.08	18.32	19.00	1.169	0.882	22.1
Right tilted	40		349000/1745	1:1	0.730	-0.16	18.32	19.00	1.169	0.854	22.1
				worn Te	st data(Se	parate 15	mm 1RB)				
Front side	40	QPSK 1_1	349000/1745	1:1	0.292	0.13	23.75	24.50	1.189	0.347	22.1
Back side	40	QPSK 1_1	349000/1745	1:1	0.649	0.08	23.75	24.50	1.189	0.771	22.1
			Body wo	orn Test	data (Sepa	arate 15m	m 50%RB)				
Front side	40	QPSK 108_54	349000/1745	1:1	0.296	-0.15	23.73	24.50	1.194	0.353	22.1
Back side											



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Report No.: SEWM2311000454RG09

Rev.: 01 Page: 99 of 121

		ı			data(Sepa						
Front side	40	QPSK 1_1	349000/1745	1:1	0.205	-0.08	18.37	19.00	1.156	0.237	22.1
Back side	40	QPSK 1_1	349000/1745	1:1	0.338	-0.01	18.37	19.00	1.156	0.391	22.1
Left side	40	QPSK 1_1	349000/1745	1:1	0.082	0.11	18.37	19.00	1.156	0.095	22.1
Top side	40	QPSK 1_1	349000/1745	1:1	0.443	-0.16	18.37	19.00	1.156	0.512	22.1
	1	lana			ata (Separ						
Front side	_	QPSK 108_54		1:1	0.187	0.10	18.36	19.00	1.159	0.217	22.1
Back side		QPSK 108_54		1:1	0.443	-0.04	18.36	19.00	1.159	0.513	22.1
Left side		QPSK 108_54		1:1	0.086	0.15	18.36	19.00	1.159	0.100	22.1
Top side	40	QPSK 108_54	349000/1745	1:1	0.423 nt4 Test R	-0.07	18.36	19.00	1.159	0.490	22.1
				Al	SAR	Power				Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid
, , , , , , , , , , , , , , , , , , , ,				Cycle	1-g	(dB)	Power(dBm)	Limit(dBm)	tactor	(W/kg)	Temp.(℃)
				Hea	ad Test dat	ta(1RB)					
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.089	-0.01	23.29	23.80	1.125	0.100	22.1
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.063	0.08	23.29	23.80	1.125	0.071	22.1
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.123	-0.19	23.29	23.80	1.125	0.138	22.1
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.056	0.18	23.29	23.80	1.125	0.063	22.1
		T	1	Head	Test data	(50%RB)	•		,		
Left cheek		QPSK 108_54		1:1	0.100	-0.09	23.28	23.80	1.127	0.113	22.1
Left tilted		QPSK 108_54		1:1	0.080	-0.05	23.28	23.80	1.127	0.090	22.1
Right cheek	40	QPSK 108_54		1:1	0.140	-0.14	23.28	23.80	1.127	0.158	22.1
Right tilted	40	QPSK 108_54	ļ	1:1	0.073	-0.10	23.28	23.80	1.127	0.082	22.1
		T	,		st data(Se		, , , , , , , , , , , , , , , , , , , ,				
Front side	40	QPSK 1_1	349000/1745	1:1	0.079	0.00	23.29	23.80	1.125	0.089	22.1
Back side	40	QPSK 1_1	349000/1745	1:1	0.103	-0.16	23.29	23.80	1.125	0.116	22.1
	1	I					m 50%RB)				
Front side		QPSK 108_54		1:1	0.084	0.17	23.28	23.80	1.127	0.095	22.1
Back side	40	QPSK 108_54		1:1	0.114	-0.15	23.28	23.80	1.127	0.129	22.1
	140	0.0014.4.4			data(Sepa			20.00	4 000	0.444	20.4
Front side	40	QPSK 1_1	349000/1745	1:1	0.406	0.07	22.94	23.30	1.086	0.441	22.1
Back side	40	QPSK 1_1	349000/1745	1:1	0.514	-0.12	22.94	23.30	1.086	0.558	22.1
Left side	40	QPSK 1_1	349000/1745	1:1	0.155	-0.07	22.94	23.30	1.086	0.168	22.1
Bottom side	40	QPSK 1_1	349000/1745	1:1	0.705	-0.02	22.94	23.30	1.086	0.766	22.1
Cront oide	10	ODCK 100 F4			ata (Separ			22.20	1 101	0.406	22.4
Front side	40	QPSK 108_54		1:1	0.449	-0.14 -0.17	22.87	23.30	1.104	0.496	22.1
Back side Left side		QPSK 108_54 QPSK 108_54	349000/1745	1:1 1:1	0.569 0.178	0.00	22.87 22.87	23.30 23.30	1.104 1.104	0.628 0.197	22.1 22.1
Bottom side		QPSK 108_54		1:1	0.178	0.00	22.87	23.30	1.104	0.197	22.1
Dottom side	40	Q1 31 100_34			ita (Separa			23.30	1.104	0.003	22.1
Bottom side	40	OPSK 216_0	349000/1745	1:1	0.631	0.09	22.11	22.80	1.172	0.740	22.1
Bottom oldo	1.0	Q1 01(210_0	010000/1110		nt5 Test R		22.11	22.00	1	0.7 10	
					SAR	Power	l <u>.</u>	_	L	Scaled	1.1
Test position	BW.	Modulation	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid Temp.(℃)
				Cycle	1-g	(dB)	Power(dBm)	Limit(abin)	ractor	(W/kg)	remp.(C)
		T		Hea	ad Test dat		•		,		•
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.221	0.14	19.98	20.70	1.180	0.261	22.1
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.140	0.19	19.98	20.70	1.180	0.165	22.1
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.819	0.18	19.98	20.70	1.180	0.967	22.1
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.321	0.15	19.98	20.70	1.180	0.379	22.1
		I	T		Test data		T				
Left cheek		QPSK 108_54		1:1	0.210	0.11	19.96	20.70	1.186	0.249	22.1
Left tilted	_	QPSK 108_54		1:1	0.096	-0.12	19.96	20.70	1.186	0.114	22.1
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.841	0.07	19.96	20.70	1.186	0.997	22.1



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 100 of 121

	Right tilted 40 QPSK 108_54 349000/1745 1:1 0.296 0.19 19.96 20.70 1.186 0.351 22.1												
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.296	0.19	19.96	20.70	1.186	0.351	22.1		
				Head	Test data(100%RB)							
Right cheek	40	QPSK 216_0	349000/1745	1:1	0.719	-0.16	20.67	21.70	1.268	0.911	22.1		
		•	Body	worn Te	st data(Se	parate 15n	nm 1RB)						
Front side	40	QPSK 1_1	349000/1745	1:1	0.071	-0.05	20.39	21.20	1.205	0.086	22.1		
Back side	40	QPSK 1_1	349000/1745	1:1	0.129	-0.13	20.39	21.20	1.205	0.155	22.1		
			Body w	orn Test	data(Sepa	arate 15mr	m 50%RB)						
Front side 40 QPSK 108_54 349000/1745 1:1 0.083 -0.06 20.36 21.20 1.213 0.101 22.1													
Back side 40 QPSK 108_54 349000/1745 1:1 0.167 -0.08 20.36 21.20 1.213 0.203 22.1													
		•	Hots	pot Test	data(Sepa	arate 10mr	n 1RB)						
Front side	40	QPSK 1_1	349000/1745	1:1	0.167	-0.04	19.98	20.70	1.180	0.197	22.1		
Back side	40	QPSK 1_1	349000/1745	1:1	0.283	0.16	19.98	20.70	1.180	0.334	22.1		
Left side	40	QPSK 1_1	349000/1745	1:1	0.327	-0.03	19.98	20.70	1.180	0.386	22.1		
Top side	40	QPSK 1_1	349000/1745	1:1	0.045	0.08	19.98	20.70	1.180	0.053	22.1		
			Hotspo	ot Test d	ata (Separ	ate 10mm	50%RB)						
Front side	40	QPSK 108_54	349000/1745	1:1	0.182	0.08	19.96	20.70	1.186	0.216	22.1		
Back side	40	QPSK 108_54	349000/1745	1:1	0.362	0.08	19.96	20.70	1.186	0.429	22.1		
Left side	40	QPSK 108_54	349000/1745	1:1	0.432	-0.10	19.96	20.70	1.186	0.512	22.1		
Top side	40	QPSK 108_54	349000/1745	1:1	0.053	-0.17	19.96	20.70	1.186	0.063	22.1		
E 1 1 00 04D (D 00 (11											

Table 26: SAR of 5G NR n66 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	()	(19)	SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	349000/1745	0.901	0.899	1.002224694	N/A	N/A

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 101 of 121

9.2.5 SAR Result of 5G NR n77(3450~3550)

				S	A N77 SAF						
						st Record	1				
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.135	-0.15	19.59	20.60	1.262	0.170	22.3
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.061	-0.16	19.59	20.60	1.262	0.077	22.3
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.256	-0.05	19.59	20.60	1.262	0.323	22.3
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.113	-0.14	19.59	20.60	1.262	0.143	22.3
					Head Test	data(50%F	RB)				•
Left cheek		QPSK 135_69		1:1	0.113	0.11	19.54	20.60	1.276	0.144	22.3
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.032	-0.04	19.54	20.60	1.276	0.041	22.3
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.201	-0.04	19.54	20.60	1.276	0.257	22.3
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.071	-0.13	19.54	20.60	1.276	0.091	22.3
				Body wor	n Test data	(Separate	15mm 1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.094	0.08	17.16	18.10	1.242	0.117	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.098	-0.07	17.16	18.10	1.242	0.122	22.3
			В	ody worn	Test data(Separate 1	5mm 50%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.107	0.13	17.15	18.10	1.245	0.133	22.3
Back side	100	QPSK 135_69	633334/3500	1:1	0.139	0.17	17.15	18.10	1.245	0.173	22.3
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.202	-0.05	17.16	18.10	1.242	0.251	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.302	0.07	17.16	18.10	1.242	0.375	22.3
Left side	100	QPSK 1_1	633334/3500	1:1	0.508	0.12	17.16	18.10	1.242	0.631	22.3
			ŀ	Hotspot T	est data(Se	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.205	-0.19	17.15	18.10	1.245	0.255	22.3
Back side	100	QPSK 135_69	633334/3500	1:1	0.302	0.19	17.15	18.10	1.245	0.376	22.3
Left side	100	QPSK 135_69	633334/3500	1:1	0.517	0.07	17.15	18.10	1.245	0.643	22.3
						st Record					
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
		1			Head Tes	t data(1RE	3)				1
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.186	0.12	14.90	15.20	1.072	0.199	22.3
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.227	0.00	14.90	15.20	1.072	0.243	22.3
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.725	-0.17	14.90	15.20	1.072	0.777	22.3
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.626	0.08	14.90	15.20	1.072	0.671	22.3
		1			Head Test		T .	1			1
Left cheek		QPSK 135_69		1:1	0.182	0.07	14.89	15.20	1.074	0.195	22.3
Left tilted		QPSK 135_69		1:1	0.231	-0.09	14.89	15.20	1.074	0.248	22.3
Right cheek		QPSK 135_69		1:1	0.737	0.03	14.89	15.20	1.074	0.792	22.3
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.715	-0.07	14.89	15.20	1.074	0.768	22.3
		1		Body wor	n Test data	(Separate	15mm 1RB)	ı			
Front side	100	QPSK 1_1	633334/3500	1:1	0.186	-0.16	14.90	15.20	1.072	0.199	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.307	0.05	14.90	15.20	1.072	0.329	22.3
	1	1					5mm 50%RB)	1			ı
Front side		QPSK 135_69		1:1	0.180	-0.05	14.89	15.20	1.074	0.193	22.3
Back side	100	QPSK 135_69	633334/3500	1:1	0.350	-0.05	14.89	15.20	1.074	0.376	22.3
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.234	-0.04	14.90	15.20	1.072	0.251	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.518	-0.18	14.90	15.20	1.072	0.555	22.3
Left side	100	QPSK 1_1	633334/3500	1:1	0.112	0.15	14.90	15.20	1.072	0.120	22.3



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 102 of 121

	,				•						
Top side	100	QPSK 1_1	633334/3500	1:1	0.584	-0.10	14.90	15.20	1.072	0.626	22.3
			H	lotspot Te	est data (Se	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.243	0.02	14.89	15.20	1.074	0.261	22.3
Back side	100	QPSK 135_69		1:1	0.536	-0.02	14.89	15.20	1.074	0.576	22.3
Left side	100	QPSK 135_69	633334/3500	1:1	0.119	-0.06	14.89	15.20	1.074	0.128	22.3
Top side	100	QPSK 135_69	633334/3500	1:1	0.587	-0.18	14.89	15.20	1.074	0.630	22.3
		1			Ant7 Te	st Record					
_				Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Modulation	Test ch./Freq.	Cycle	(W/kg)	drift	Power(dBm)		factor	SAR 1-g	Temp.(℃)
	ļ			-	1-g	(dB)	, ,			(W/kg)	
Left cheek	100	ODSK 1 1	633334/3500	1:1	0.607	t data(1RE 0.09	16.27	16.80	1.130	0.686	22.3
Left tilted	100	QPSK 1_1 QPSK 1_1	633334/3500	1:1	0.666	0.09	16.27	16.80	1.130	0.866	22.3
	100	QPSK 1_1	633334/3500	1:1	0.666	0.11	16.27	16.80	1.130	0.732	22.3
Right cheek		_									
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.683	-0.18	16.27	16.80	1.130	0.772	22.3
Loft chool:	100	OBSK 125 60	622224/2500		Head Test	,	r '	16 00	1 151	0.694	22.2
Left cheek Left tilted	100	QPSK 135_69 QPSK 135_69		1:1 1:1	0.594 0.646	0.10 -0.13	16.19 16.19	16.80 16.80	1.151 1.151	0.684 0.743	22.3 22.3
Right cheek	100	QPSK 135_69		1:1	0.646	0.03	16.19	16.80	1.151	0.602	22.3
Right tilted		QPSK 135_69		1:1	0.523	-0.10	16.19	16.80	1.151	0.602	22.3
Right tilted	100	QF3K 135_09					15mm 1RB)	10.00	1.131	0.707	22.3
Front side	100	QPSK 1_1	633334/3500	1:1	0.201	-0.03	22.06	23.30	1.330	0.267	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.408	-0.03	22.06	23.30	1.330	0.543	22.3
Dack Side	100	QF3K I_I					5mm 50%RB)	23.30	1.330	0.545	22.3
Front side	100	QPSK 135 69		1:1	0.208	-0.19	22.01	23.30	1.346	0.280	22.3
Back side		QPSK 135_69		1:1	0.208	-0.19	22.01	23.30	1.346	0.280	22.3
Dack Side	100	QF3K 135_09	033334/3300		Test data(S			23.30	1.340	0.024	22.3
Front side	100	QPSK 1_1	633334/3500	1:1	0.193	0.01	15.77	16.30	1.130	0.218	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.193	-0.17	15.77	16.30	1.130	0.538	22.3
Top side	100	QPSK 1_1	633334/3500	1:1	0.476	0.01	15.77	16.30	1.130	0.638	22.3
Top side	100	QF3K I_I					mm 50%RB)	10.30	1.130	0.036	22.3
Front side	100	QPSK 135 69		1:1	0.089	-0.17	15.72	16.30	1.143	0.102	22.3
Back side	100	QPSK 135_69		1:1	0.208	-0.17	15.72	16.30	1.143	0.102	22.3
Top side		QPSK 135_69		1:1	0.239	0.08	15.72	16.30	1.143	0.233	22.3
Top side	100	Q1 010 100_00	000004/0000	1.1		st Record		10.50	1.140	0.273	22.0
	1				SAR	Power				Scaled	
Test position	BW.	Modulation	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid
				Cycle	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
					Head Tes	t data(1RE	3)				
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.584	0.00	17.36	18.10	1.186	0.692	22.3
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.252	0.11	17.36	18.10	1.186	0.299	22.3
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.124	-0.07	17.36	18.10	1.186	0.147	22.3
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.116	-0.12	17.36	18.10	1.186	0.138	22.3
					Head Test	data(50%F	RB)				
Left cheek	100	QPSK 135_69	633334/3500	1:1	0.529	-0.03	17.32	18.10	1.197	0.633	22.3
Left tilted		QPSK 135_69		1:1	0.266	-0.14	17.32	18.10	1.197	0.318	22.3
Right cheek		QPSK 135_69		1:1	0.101	-0.13	17.32	18.10	1.197	0.121	22.3
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.134	-0.16	17.32	18.10	1.197	0.160	22.3
				Body wor	n Test data	(Separate	15mm 1RB)				
Front side	100	QPSK 1_1	633334/3500	1:1	0.121	-0.14	18.49	19.60	1.291	0.156	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.313	0.06	18.49	19.60	1.291	0.404	22.3
			Вс	dy worn		Separate 1	5mm 50%RB)				
Front side	100	QPSK 135_69		1:1	0.133	0.08	18.40	19.60	1.318	0.175	22.3
Back side	100	QPSK 135_69	633334/3500	1:1	0.381	0.12	18.40	19.60	1.318	0.502	22.3
				Hotspot	Test data(S	Separate 1	0mm 1RB)				
•											



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 103 of 121

Front side	100	QPSK 1_1	633334/3500	1:1	0.141	-0.14	17.36	18.10	1.186	0.167	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.372	0.07	17.36	18.10	1.186	0.441	22.3
Right side	100	QPSK 1_1	633334/3500	1:1	0.514	-0.11	17.36	18.10	1.186	0.609	22.3
Top side	100	QPSK 1_1	633334/3500	1:1	0.104	0.14	17.36	18.10	1.186	0.123	22.3
			H	lotspot Te	est data (Se	eparate 10	mm 50%RB)				
Front side	100	QPSK 135_69	633334/3500	1:1	0.171	0.01	17.32	18.10	1.197	0.205	22.3
Back side	100	QPSK 135_69	633334/3500	1:1	0.427	0.13	17.32	18.10	1.197	0.511	22.3
Right side	100	QPSK 135_69	633334/3500	1:1	0.533	-0.18	17.32	18.10	1.197	0.638	22.3
Top side	100	QPSK 135_69	633334/3500	1:1	0.102	0.17	17.32	18.10	1.197	0.122	22.3

Table 27: SAR of 5G NR n77(3450~3550) for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 104 of 121

9.2.6 SAR Result of 5G NR n77(3700~3980)

				SA N	77 SAR T	est Recor	'd					
Ant1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
	,				ead Test da	ata(1RB)						
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.313	0.15	19.33	20.60	1.340	0.419	22.1	
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.089	0.11	19.33	20.60	1.340	0.119	22.1	
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.506	-0.13	19.33	20.60	1.340	0.678	22.1	
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.168	0.13	19.33	20.60	1.340	0.225	22.1	
					d Test data	a(50%RB)			1			
Left cheek		QPSK 135_69		1:1	0.203	0.07	19.31	20.60	1.346	0.273	22.1	
Left tilted		QPSK 135_69		1:1	0.087	-0.01	19.31	20.60	1.346	0.117	22.1	
Right cheek		QPSK 135_69		1:1	0.392	0.09	19.31	20.60	1.346	0.528	22.1	
Right tilted	100	QPSK 135_69		1:1	0.161	0.14	19.31	20.60	1.346	0.217	22.1	
					est data(Se						1	
Front side	100	QPSK 1_1	656000/3840	1:1	0.061	0.06	16.81	18.10	1.346	0.082	22.1	
Back side	100	QPSK 1_1	656000/3840	1:1	0.072	-0.05	16.81	18.10	1.346	0.097	22.1	
					· · · ·		nm 50%RB)				1	
Front side	_	QPSK 135_69		1:1	0.054	-0.16	16.79	18.10	1.352	0.065	22.1	
Back side	100	QPSK 135_69		1:1	0.055	0.05	16.79	18.10	1.352	0.074	22.1	
					t data(Sep						1	
Front side	100	QPSK 1_1	656000/3840	1:1	0.048	0.05	16.81	18.10	1.346	0.065	22.1	
Back side	100	QPSK 1_1	656000/3840	1:1	0.111	0.12	16.81	18.10	1.346	0.149	22.1	
Left side	100	QPSK 1_1	656000/3840	1:1	0.144	0.15	16.81	18.10	1.346	0.194	22.1	
					data (Sepa						1	
Front side		QPSK 135_69		1:1	0.050	0.13	16.79	18.10	1.352	0.068	22.1	
Back side		QPSK 135_69		1:1	0.066	-0.12	16.79	18.10	1.352	0.089	22.1	
Left side	100	QPSK 135_69	656000/3840	1:1	0.103	-0.05	16.79	18.10	1.352	0.139	22.1	
	1		1	A	nt6 Test I		1				ı	
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
				Не	ead Test da	ata(1RB)						
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.155	0.05	14.87	15.20	1.079	0.167	22.1	
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.124	-0.11	14.87	15.20	1.079	0.134	22.1	
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.554	0.02	14.87	15.20	1.079	0.598	22.1	
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.312	0.18	14.87	15.20	1.079	0.337	22.1	
				Hea	d Test data	a(50%RB))					
Left cheek	100	QPSK 135_69	656000/3840	1:1	0.111	0.07	14.83	15.20	1.089	0.121	22.1	
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.095	-0.06	14.83	15.20	1.089	0.103	22.1	
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.341	0.06	14.83	15.20	1.089	0.371	22.1	
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.270	0.09	14.83	15.20	1.089	0.294	22.1	
			Body	y worn Te	est data(Se	eparate 15	5mm 1RB)					
Front side	100	QPSK 1_1	656000/3840	1:1	0.040	0.10	14.87	15.20	1.079	0.043	22.1	
	100	QPSK 1_1	656000/3840	1:1	0.069	0.09	14.87	15.20	1.079	0.074	22.1	
Back side	Body worn Test data (Separate 15mm 50%RB)											
			Body v	voiii res	data (Cop							
		QPSK 135_69	656000/3840	1:1	0.054	-0.04	14.83	15.20	1.089	0.059	22.1	
Back side	100	QPSK 135_69 QPSK 135_69	656000/3840				14.83 14.83	15.20 15.20	1.089 1.089	0.059 0.081	22.1 22.1	
Back side Front side	100		656000/3840 656000/3840	1:1 1:1	0.054	-0.04 -0.19	14.83					
Back side Front side	100		656000/3840 656000/3840	1:1 1:1	0.054 0.074	-0.04 -0.19	14.83					
Back side Front side Back side	100	QPSK 135_69 QPSK 1_1	656000/3840 656000/3840 Hot	1:1 1:1 spot Tes	0.054 0.074 t data(Sep	-0.04 -0.19 arate 10m	14.83 nm 1RB)	15.20	1.089	0.081	22.1	



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 105 of 121

Top side						1		1	•	1		1	
Front side	Top side	100	QPSK 1_1	656000/3840	1:1	0.066	-0.12	14.87	15.20	1.079	0.071	22.1	
Back side 100 OPSK 135 69 6560003840 1:1 0.068 0.09 14.83 15.20 1.089 0.072 22.1					ot Test	data (Sepa		,					
Left side	Front side	100	QPSK 135_69	656000/3840	1:1	0.046	-0.10	14.83	15.20	1.089	0.050	22.1	
Top side	Back side	100	QPSK 135_69	656000/3840	1:1	0.066	-0.09	14.83	15.20	1.089	0.072	22.1	
Test position	Left side				1:1	0.135	0.01	14.83	15.20	1.089	0.147	22.1	
Test position	Top side	100	QPSK 135_69	656000/3840	1:1	0.056	0.04	14.83	15.20	1.089	0.061	22.1	
Head Test data(IRB)						nt7 Test I	Record						
Heat Test data Heat He					Duty			Conducted	Tune un	Scaled		Liquid	
Left cheek	Test position	BW.	Modulation	Test ch./Freq.					-				
Left titled		ļ					(dB)				(W/kg)	- 1 (- 7	
Left tilted 100 QPSK 1_1 656000/3840 1:1 0.834 0.04 16.37 16.80 1.104 0.921 22.2 Left tilted-repeated 100 QPSK 1_1 656000/3840 1:1 0.831 0.08 16.37 16.80 1.104 0.692 22.2 Right tilted 100 QPSK 1_1 656000/3840 1:1 0.627 -0.07 16.37 16.80 1.104 0.692 22.2 Right tilted 100 QPSK 1_1 656000/3840 1:1 0.627 -0.10 16.37 16.80 1.104 0.692 22.2 Head Test chata(SPAR) Left tilted 100 QPSK 135_69 656000/3840 1:1 0.620 -0.04 16.36 16.80 1.107 0.686 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.36 16.80 1.107 0.686 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.36 16.80 1.107 0.647 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.36 16.80 1.107 0.647 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.36 16.80 1.107 0.704 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.36 16.80 1.107 0.704 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.36 16.80 1.107 0.704 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.14 16.35 16.80 1.109 0.704 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.555 -0.04 22.01 23.30 1.346 0.339 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.252 -0.04 22.01 23.30 1.346 0.339 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.255 -0.06 22.01 23.30 1.346 0.748 22.2 Back side 100 QPSK 13_69 656000/3840 1:1 0.535 0.06 22.01 23.30 1.352 0.721 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.530 0.06 21.99 23.30 1.352 0.721 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.530 0.08 15.83 16.30 1.114 0.381 22.2 Top side 100 QPSK 1_1 656000/3840 1:1 0.342 0.08 15.83 16.30 1.114 0.381 22.2 Top side 100 QPSK 1_1 656000/3840 1:1 0.090 0.10 15.83 16.30 1.114 0.381 22.2 Right theek 100 QPSK 1_1 656000/3840 1:1 0.090 0.10 15.83 16.30 1.114 0.381 22.2 Right theek 100 QPSK 1_1 656000/3840 1:1 0.090 0.10 15.79 16.30 1.125 0.101 22.2 Right tilted 100 QPSK 1_1 656000/3840 1:1 0.090 0.10 15.79 16.30 1.125 0.101 22.2 Right theek 100 QPSK 1_1 656000/3840 1:1 0.090 0.01 17.24 18.10 1.213 0.069 22.2 Right theek 100 QPSK 1_1 656000/3			0.0014.4.4			1		1					
Left tilted 100 OPSK 1_1 656000/3840 1:1 0.831 0.08 16.37 16.80 1.104 0.917 22.2													
Right cheek													
Right tilted													
Head Test data(50%RB)													
Left cheek	Right tilted	100	QPSK 1_1	656000/3840				1	16.80	1.104	0.746	22.2	
Left tilted			1				· · · · · ·					T	
Right cheek 100 QPSK 135_69 656000/3840 1:1 0.585 -0.14 16.36 16.80 1.107 0.647 22.2													
Right tilted					1:1		-0.16		16.80				
Head Test data(100%RB) Left tilted	Right cheek				1:1	0.585		16.36	16.80	1.107	0.647	22.2	
Left tilted 100	Right tilted	100	QPSK 135_69	656000/3840	1:1	0.636	0.18	16.36	16.80	1.107	0.704	22.2	
Body worn Test data(Separate 15mm 1RB)					Head	d Test data	(100%RB						
Front side	Left tilted	100	QPSK 270_0	656000/3840	1:1	0.801	-0.06	16.35	16.80	1.109	0.888	22.2	
Back side					/ worn Te	est data(Se	eparate 15	mm 1RB)					
Body worn Test data (Separate 15mm 50%RB)	Front side	100	QPSK 1_1	656000/3840	1:1	0.252	-0.04	22.01	23.30	1.346	0.339	22.2	
Front side	Back side	100	QPSK 1_1	656000/3840	1:1	0.556	0.06	22.01	23.30	1.346	0.748	22.2	
Back side	Body worn Test data (Separate 15mm 50%RB)												
Hotspot Test data(Separate 10mm 1RB)	Front side	100	QPSK 135_69	656000/3840	1:1	0.243	-0.17	21.99	23.30	1.352	0.329	22.2	
Front side	Back side	100	QPSK 135_69	656000/3840	1:1	0.533	0.06	21.99	23.30	1.352	0.721	22.2	
Back side 100				Hot	spot Tes	t data(Sep	arate 10m	nm 1RB)					
Top side	Front side	100	QPSK 1_1	656000/3840	1:1	0.085	0.08	15.83	16.30	1.114	0.095	22.2	
Hotspot Test data (Separate 10mm 50%RB)	Back side	100	QPSK 1_1	656000/3840	1:1	0.209	0.01	15.83	16.30	1.114	0.233	22.2	
Front side 100 QPSK 135_69 656000/3840 1:1 0.090 0.10 15.79 16.30 1.125 0.101 22.2	Top side	100	QPSK 1_1	656000/3840	1:1	0.342	0.08	15.83	16.30	1.114	0.381	22.2	
Back side 100 QPSK 135_69 656000/3840 1:1 0.114 -0.08 15.79 16.30 1.125 0.128 22.2				Hotsp	ot Test	data (Sepa	rate 10mr	n 50%RB)					
Top side 100 QPSK 135_69 656000/3840 1:1 0.276 -0.15 15.79 16.30 1.125 0.310 22.2 Ant8 Test Record Test position BW. Modulation Test ch./Freq. Duty Cycle Cycle SAR (W/kg) 1-g (H/kg) 1-g (W/kg) Cycle Cyc	Front side	100	QPSK 135_69	656000/3840	1:1	0.090	0.10	15.79	16.30	1.125	0.101	22.2	
Test position BW. Modulation Test ch./Freq. Duty Cycle Cycle SAR (W/kg) 1-g Conducted diff (dB) Conducted (Back side	100	QPSK 135_69	656000/3840	1:1	0.114	-0.08	15.79	16.30	1.125	0.128	22.2	
Test position BW. Modulation Test ch./Freq. Duty Cycle (W/kg) 1-g (W/kg) (dB) Conducted power(dBm) Limit(dBm) Factor (W/kg) (W/kg) Temp.(°C) (W/kg) (Limit(dBm) Factor (W/kg) (W/kg) (Limit(dBm) Factor (W/kg) (W/kg	Top side	100	QPSK 135_69	656000/3840	1:1	0.276	-0.15	15.79	16.30	1.125	0.310	22.2	
Test position BW. Modulation Test ch./Freq. Duty Cycle (W/kg) 1-g drift (dB) Conducted (dB) Linit(dBm) Factor Tune up (power(dBm) Linit(dBm) Factor Tune up (m/kg) Temp.(°C)					A	nt8 Test F	Record						
Left cheek 100 QPSK 1_1 656000/3840 1:1 0.453 0.11 17.26 18.10 1.213 0.550 22.2					Duty	SAR	Power	Conducted	Tungun	Scaled	Scaled	Liquid	
Head Test data(1RB)	Test position	BW.	Modulation	Test ch./Freq.									
Left cheek 100 QPSK 1_1 656000/3840 1:1 0.453 0.11 17.26 18.10 1.213 0.550 22.2 Left tilted 100 QPSK 1_1 656000/3840 1:1 0.111 -0.12 17.26 18.10 1.213 0.135 22.2 Right cheek 100 QPSK 1_1 656000/3840 1:1 0.063 -0.11 17.26 18.10 1.213 0.076 22.2 Right tilted 100 QPSK 1_1 656000/3840 1:1 0.057 -0.16 17.26 18.10 1.213 0.069 22.2 Head Test data(50%RB) Left cheek 100 QPSK 135_69 656000/3840 1:1 0.498 -0.08 17.24 18.10 1.219 0.607 22.2 Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right tilted 100 QPSK 135_69		ļ				,	(aB)	,			(W/kg)		
Left tilted 100 QPSK 1_1 656000/3840 1:1 0.111 -0.12 17.26 18.10 1.213 0.135 22.2 Right cheek 100 QPSK 1_1 656000/3840 1:1 0.063 -0.11 17.26 18.10 1.213 0.076 22.2 Right tilted 100 QPSK 1_1 656000/3840 1:1 0.057 -0.16 17.26 18.10 1.213 0.069 22.2 Head Test data(50%RB) Left cheek 100 QPSK 135_69 656000/3840 1:1 0.498 -0.08 17.24 18.10 1.219 0.607 22.2 Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>								1					
Right cheek 100 QPSK 1_1 656000/3840 1:1 0.063 -0.11 17.26 18.10 1.213 0.076 22.2 Right tilted 100 QPSK 1_1 656000/3840 1:1 0.057 -0.16 17.26 18.10 1.213 0.069 22.2 Head Test data(50%RB) Left cheek 100 QPSK 135_69 656000/3840 1:1 0.498 -0.08 17.24 18.10 1.219 0.607 22.2 Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>													
Right tilted 100 QPSK 1_1 656000/3840 1:1 0.057 -0.16 17.26 18.10 1.213 0.069 22.2 Head Test data(50%RB) Left cheek 100 QPSK 135_69 656000/3840 1:1 0.498 -0.08 17.24 18.10 1.219 0.607 22.2 Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right cheek 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 <td c<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
Head Test data(50%RB) Left cheek 100 QPSK 135_69 656000/3840 1:1 0.498 -0.08 17.24 18.10 1.219 0.607 22.2 Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right cheek 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2													
Left cheek 100 QPSK 135_69 656000/3840 1:1 0.498 -0.08 17.24 18.10 1.219 0.607 22.2 Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right cheek 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2	Right tilted	100	QPSK 1_1	656000/3840					18.10	1.213	0.069	22.2	
Left tilted 100 QPSK 135_69 656000/3840 1:1 0.135 -0.08 17.24 18.10 1.219 0.165 22.2 Right cheek 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2			,	· · · · · · · · · · · · · · · · · · ·						1		ı	
Right cheek 100 QPSK 135_69 656000/3840 1:1 0.097 0.02 17.24 18.10 1.219 0.118 22.2 Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2													
Right tilted 100 QPSK 135_69 656000/3840 1:1 0.089 -0.07 17.24 18.10 1.219 0.108 22.2 Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2									18.10				
Body worn Test data(Separate 15mm 1RB) Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2	Right cheek				1:1				18.10	1.219	0.118	22.2	
Front side 100 QPSK 1_1 656000/3840 1:1 0.119 -0.05 18.42 19.60 1.312 0.156 22.2 Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2	Right tilted	100	QPSK 135_69						18.10	1.219	0.108	22.2	
Back side 100 QPSK 1_1 656000/3840 1:1 0.297 0.04 18.42 19.60 1.312 0.390 22.2				Body	worn Te	est data(Se	eparate 15	mm 1RB)					
	Front side	100	QPSK 1_1	656000/3840	1:1	0.119	-0.05	18.42	19.60	1.312	0.156	22.2	
Body worn Test data (Separate 15mm 50%RB)	Back side	100	QPSK 1_1	656000/3840	1:1	0.297	0.04	18.42	19.60	1.312	0.390	22.2	
				Body v	orn Test	t data (Sep	arate 15m	nm 50%RB)					



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 106 of 121

Front side	100	QPSK 135_69	656000/3840	1:1	0.122	-0.12	18.39	19.60	1.321	0.161	22.2	
Back side	100	QPSK 135_69	656000/3840	1:1	0.309	-0.16	18.39	19.60	1.321	0.408	22.2	
	Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.119	-0.03	17.26	18.10	1.213	0.144	22.2	
Back side	100	QPSK 1_1	656000/3840	1:1	0.278	0.03	17.26	18.10	1.213	0.337	22.2	
Right side	100	QPSK 1_1	656000/3840	1:1	0.295	-0.16	17.26	18.10	1.213	0.358	22.2	
Top side	100	QPSK 1_1	656000/3840	1:1	0.089	-0.05	17.26	18.10	1.213	0.108	22.2	
			Hotsp	ot Test	data (Sepa	rate 10mn	n 50%RB)					
Front side	100	QPSK 135_69	656000/3840	1:1	0.111	-0.14	17.24	18.10	1.219	0.135	22.2	
Back side	100	QPSK 135_69	656000/3840	1:1	0.265	0.07	17.24	18.10	1.219	0.323	22.2	
Right side	100	QPSK 135_69	656000/3840	1:1	0.303	0.19	17.24	18.10	1.219	0.369	22.2	
Top side	100	QPSK 135_69	656000/3840	1:1	0.081	0.16	17.24	18.10	1.219	0.099	22.2	

Table 28: SAR of 5G NR n77(3700~3980) for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	656000/3840	0.834	0.831	#DIV/0!	N/A	N/A

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

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

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

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 107 of 121

9.2.7 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record											
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)	
			H	ead Test data	a For Rec	eiver on Sta	andalone					
Left cheek	802.11b	6/2437	98.81%	1.012	0.932	-0.16	19.49	20.00	1.125	1.061	22.5	
Left cheek-repeated	802.11b	6/2437	98.81%	1.012	0.931	-0.08	19.49	20.00	1.125	1.060	22.5	
Left cheek	802.11b	1/2412	98.81%	1.012	0.876	-0.19	19.45	20.00	1.136	1.007	22.5	
Left cheek	802.11b	11/2462	98.81%	1.012	0.903	0.18	19.38	20.00	1.155	1.055	22.5	
Left tilted	802.11b	6/2437	98.81%	1.012	0.536	0.18	19.49	20.00	1.125	0.610	22.5	
Right cheek	802.11b	6/2437	98.81%	1.012	0.259	0.15	19.49	20.00	1.125	0.295	22.5	
Right tilted	802.11b	6/2437	98.81%	1.012	0.246	0.08	19.49	20.00	1.125	0.280	22.5	
			He	ad Test data	For Rece	iver on Sim	ultaneous					
Left cheek	802.11b	6/2437	98.81%	1.012	0.237	0.17	12.51	13.50	1.257	0.302	22.5	
Left tilted	802.11b	6/2437	98.81%	1.012	0.137	-0.09	12.51	13.50	1.257	0.174	22.5	
Right cheek	802.11b	6/2437	98.81%	1.012	0.066	-0.06	12.51	13.50	1.257	0.084	22.5	
Right tilted	802.11b	6/2437	98.81%	1.012	0.063	-0.14	12.51	13.50	1.257	0.080	22.5	
				Body worn	Test data(Separate 1	5mm)					
Front side	802.11b	6/2437	98.81%	1.012	0.157	0.07	19.49	20.00	1.125	0.179	22.5	
Back side	802.11b	6/2437	98.81%	1.012	0.248	-0.04	19.49	20.00	1.125	0.282	22.5	
	Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	98.81%	1.012	0.291	0.12	19.49	20.00	1.125	0.331	22.5	
Back side	802.11b	6/2437	98.81%	1.012	0.461	0.04	19.49	20.00	1.125	0.525	22.5	
Right side	802.11b	6/2437	98.81%	1.012	0.548	0.07	19.49	20.00	1.125	0.624	22.5	
Top side	802.11b	6/2437	98.81%	1.012	0.157	-0.02	19.49	20.00	1.125	0.179	22.5	

Table 29: SAR of WIFI 2.4G for Head and Body.

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



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Report No.: SEWM2311000454RG09

Rev.:

108 of 121 Page:

9.2.1 SAR Result of WIFI 5G

					5G SAR Te		d				
					MO Test R	ecord					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
		H	lead Test	data of U-	NII-2A For	Receiver	on Standalon	Э			
Left cheek	802.11a	52/5260	98.10%	1.019	0.625	-0.16	17.08	18.00	1.237	0.788	22.5
Left tilted	802.11a	52/5260	98.10%	1.019	0.826	-0.11	17.08	18.00	1.237	1.042	22.5
Left tilted	802.11a	60/5300	98.10%	1.019	0.726	0.17	16.48	18.00	1.420	1.051	22.5
Left tilted	802.11a	64/5320	98.10%	1.019	0.845	0.05	16.54	17.50	1.249	1.076	22.5
Left tilted-repeated	802.11a	64/5320	98.10%	1.019	0.839	-0.16	16.54	17.50	1.249	1.068	22.5
Right cheek	802.11a	52/5260	98.10%	1.019	0.379	0.15	17.08	18.00	1.237	0.478	22.5
Right tilted	802.11a	52/5260	98.10%	1.019	0.399	0.16	17.08	18.00	1.237	0.503	22.5
					NII-2C For	Receiver	on Standalon	е			
Left cheek	802.11a	140/5700		1.019	0.680	0.09	17.89	18.50	1.151	0.798	22.5
Left cheek	802.11a	100/5500	98.10%	1.019	0.601	0.04	16.35	17.00	1.161	0.711	22.3
Left cheek	802.11a	116/5580		1.019	0.636	0.18	17.28	18.00	1.182	0.766	22.3
Left tilted	802.11a	140/5700	98.10%	1.019	0.772	0.02	17.89	18.50	1.151	0.906	22.5
Left tilted	802.11a	100/5500	98.10%	1.019	0.690	0.16	16.35	17.00	1.161	0.816	22.3
Left tilted	802.11a	116/5580	98.10%	1.019	0.712	-0.03	17.28	18.00	1.182	0.858	22.3
Right cheek	802.11a	140/5700		1.019	0.452	0.05	17.89	18.50	1.151	0.530	22.5
Right tilted	802.11a	140/5700		1.019	0.537	0.10	17.89	18.50	1.151	0.630	22.5
	•						on Standalone				•
Left cheek	802.11a	149/5745		1.019	0.641	0.11	16.19	17.00	1.205	0.787	22.5
Left tilted	802.11a	149/5745	98.10%	1.019	0.711	-0.02	16.19	17.00	1.205	0.873	22.5
Left tilted	802.11a	157/5785	98.10%	1.019	0.742	-0.10	15.76	16.50	1.187	0.898	22.5
Left tilted	802.11a	165/5825		1.019	0.838	0.01	16.10	17.00	1.229	1.050	22.5
Left tilted-repeated	802.11a	165/5825	98.10%	1.019	0.832	-0.07	16.10	17.00	1.229	1.043	22.5
Right cheek	802.11a	149/5745	98.10%	1.019	0.417	-0.12	16.19	17.00	1.205	0.512	22.5
Right tilted	802.11a	149/5745	98.10%	1.019	0.562	0.01	16.19	17.00	1.205	0.690	22.5
	•			data of U-N	VII-2A For I	Receiver o	n Simultaneou				•
Left cheek	802.11a	52/5260	98.10%	1.019	0.266	0.02	12.95	14.00	1.272	0.345	22.5
Left tilted	802.11a	52/5260	98.10%	1.019	0.343	0.03	12.95	14.00	1.272	0.445	22.5
Right cheek	802.11a	52/5260	98.10%	1.019	0.154	0.15	12.95	14.00	1.272	0.200	22.5
Right tilted	802.11a	52/5260	98.10%	1.019	0.162	-0.13	12.95	14.00	1.272	0.210	22.5
					VII-2C For I	Receiver o	n Simultaneou	JS			
Left cheek	802.11a	140/5700		1.019	0.276	0.14	14.02	14.50	1.116	0.314	22.5
Left tilted	802.11a	140/5700	98.10%	1.019	0.313	-0.11	14.02	14.50	1.116	0.356	22.5
Right cheek	802.11a	140/5700	98.10%	1.019	0.183	0.03	14.02	14.50	1.116	0.208	22.5
Right tilted	802.11a	140/5700		1.019	0.218	-0.14	14.02	14.50	1.116	0.248	22.5
		F	lead Test	data of U-	NII-3 For R	eceiver o	n Simultaneou	S			
Left cheek	802.11a	149/5745		1.019	0.305	0.14	13.67	14.50	1.210	0.376	22.5
Left tilted	802.11a	149/5745		1.019	0.391	-0.05	13.67	14.50	1.210	0.482	22.5
Right cheek	802.11a	149/5745		1.019	0.239	0.05	13.67	14.50	1.210	0.295	22.5
Right tilted	802.11a	149/5745		1.019	0.322	0.15	13.67	14.50	1.210	0.397	22.5
						I-2A (Sepa	arate 15mm)				
Front side	802.11a	52/5260	98.10%	1.019	0.179	0.01	19.96	21.00	1.272	0.232	22.5
Back side	802.11a	52/5260	98.10%	1.019	0.259	0.10	19.96	21.00	1.272	0.336	22.5
				orn Test d	ata of U-NI	I-2C(Sepa	rate 15mm)				_
Front side	802.11a	140/5700		1.019	0.208	-0.11	19.86	20.50	1.159	0.246	22.5
Back side	802.11a	140/5700		1.019	0.243	-0.13	19.86	20.50	1.159	0.287	22.5
			Body v	worn Test of	data of U-N	II-3(Sepai	rate 15mm)				



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 109 of 121

Front side	802.11a	149/5745	98.10%	1.019	0.236	0.06	20.59	21.50	1.233	0.297	22.5
Back side	802.11a	149/5745	98.10%	1.019	0.315	0.08	20.59	21.50	1.233	0.396	22.5
			Hots	pot Test da	ata of U-NII	-1(Separa	te 10mm)				
Front side	802.11a	40/5200	98.10%	1.019	0.170	0.05	20.14	21.00	1.220	0.211	22.5
Back side	802.11a	40/5200	98.10%	1.019	0.319	0.17	20.14	21.00	1.220	0.397	22.5
Right side	802.11a	40/5200	98.10%	1.019	0.387	0.19	20.14	21.00	1.220	0.481	22.5
Top side	802.11a	40/5200	98.10%	1.019	0.449	0.17	20.14	21.00	1.220	0.558	22.5
			Hotsp	oot Test da	ta of U-NII	-3 (Separa	ite 10mm)				
Front side	802.11a	149/5745	98.10%	1.019	0.306	-0.09	20.59	21.50	1.233	0.384	22.5
Back side	802.11a	149/5745	98.10%	1.019	0.422	0.03	20.59	21.50	1.233	0.530	22.5
Right side	802.11a	149/5745	98.10%	1.019	0.467	-0.01	20.59	21.50	1.233	0.587	22.5
Top side	802.11a	149/5745	98.10%	1.019	0.595	0.05	20.59	21.50	1.233	0.748	22.5
Top side											
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 10-g (W/kg)	Liquid Temp.(℃)
		ch./Freq.	Cycle	Cycle Scaled factor	(W/kg) 10-g	drift (dB)		Limit(dBm)	Scaled factor	SAR 10-g	Liquid Temp.(℃)
		ch./Freq.	Cycle	Cycle Scaled factor	(W/kg) 10-g	drift (dB)	Power(dBm)	Limit(dBm)	Scaled factor	SAR 10-g	Liquid Temp.(℃)
Test position	mode	ch./Freq.	Cycle duct speci	Cycle Scaled factor fic 10gSAF	(W/kg) 10-g R Test data	drift (dB)	Power(dBm) A(Separate 0	Limit(dBm) mm)	factor	SAR 10-g (W/kg)	Temp.(℃)
Test position Front side	mode 802.11a	Proc 52/5260	Cycle duct speci 98.10%	Cycle Scaled factor fic 10gSAF 1.019	(W/kg) 10-g R Test data 0.542	drift (dB) of U-NII-2	Power(dBm) A(Separate 0 19.96	Limit(dBm) mm) 21.00	factor	SAR 10-g (W/kg)	Temp.(℃) 22.5
Test position Front side Back side	802.11a 802.11a	Proc 52/5260 52/5260	Cycle duct speci 98.10% 98.10%	Cycle Scaled factor fic 10gSAF 1.019	(W/kg) 10-g R Test data 0.542 0.451	drift (dB) of U-NII-2 0.05 -0.16	Power(dBm) 2A(Separate 0 19.96	mm) 21.00 21.00	1.272 1.272	SAR 10-g (W/kg) 0.703 0.585	Temp.(℃) 22.5 22.5
Front side Back side Right side	802.11a 802.11a 802.11a	Proc 52/5260 52/5260 52/5260 52/5260	Cycle duct speci 98.10% 98.10% 98.10% 98.10%	Cycle Scaled factor fic 10gSAF 1.019 1.019 1.019	(W/kg) 10-g R Test data 0.542 0.451 1.490 1.840	drift (dB) of U-NII-2 0.05 -0.16 -0.01 0.18	Power(dBm) 2A(Separate 0 19.96 19.96 19.96	mm) 21.00 21.00 21.00 21.00 21.00	1.272 1.272 1.272	0.703 0.585 1.932	22.5 22.5 22.5 22.5
Front side Back side Right side	802.11a 802.11a 802.11a	Proc 52/5260 52/5260 52/5260 52/5260	Cycle duct speci 98.10% 98.10% 98.10% 98.10% uct specif	Cycle Scaled factor fic 10gSAF 1.019 1.019 1.019	(W/kg) 10-g R Test data 0.542 0.451 1.490 1.840	drift (dB) of U-NII-2 0.05 -0.16 -0.01 0.18	Power(dBm) A(Separate 0 19.96 19.96 19.96 19.96	mm) 21.00 21.00 21.00 21.00 21.00	1.272 1.272 1.272	0.703 0.585 1.932	22.5 22.5 22.5 22.5
Front side Back side Right side Top side	802.11a 802.11a 802.11a 802.11a	Proc 52/5260 52/5260 52/5260 52/5260 Prod	Cycle duct speci 98.10% 98.10% 98.10% 98.10% uct specit 98.10%	Cycle Scaled factor fic 10gSAF 1.019 1.019 1.019 1.019	(W/kg) 10-g R Test data 0.542 0.451 1.490 1.840 R Test data	drift (dB) of U-NII-2 0.05 -0.16 -0.01 0.18 of U-NII-2	Power(dBm) 2A(Separate 0 19.96 19.96 19.96 19.96 2C(Separate 0	mm) 21.00 21.00 21.00 21.00 21.00 mm)	1.272 1.272 1.272 1.272	0.703 0.585 1.932 2.386	22.5 22.5 22.5 22.5 22.5
Front side Back side Right side Top side Front side	802.11a 802.11a 802.11a 802.11a 802.11a	Proc 52/5260 52/5260 52/5260 52/5260 Prod 140/5700	98.10% 98.10% 98.10% 98.10% 98.10% uct specif 98.10% 98.10%	Cycle Scaled factor fic 10gSAF 1.019 1.019 1.019 1.019 5ic 10g SAF 1.019	(W/kg) 10-g R Test data 0.542 0.451 1.490 1.840 R Test data 0.529	drift (dB) of U-NII-2 0.05 -0.16 -0.01 0.18 of U-NII-2 0.05	Power(dBm) 2A(Separate 0 19.96 19.96 19.96 2C(Separate 0 19.86	mm) 21.00 21.00 21.00 21.00 21.00 21.00 mm) 20.50	1.272 1.272 1.272 1.272 1.272	0.703 0.585 1.932 2.386	Temp.(℃) 22.5 22.5 22.5 22.5 22.5 22.5

Table 30: SAR of WIFI 5G for Head and Body.

Test Position	Channel/ Frequency		1 st Repeated	Ratio	2 nd Repeated	3rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	64/5320	0.845	0.839	1.007151371	N/A	N/A
Left tilted	165/5825	0.838	0.832	1.007211538	N/A	N/A

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

Note:

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



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

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

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



Report No.: SEWM2311000454RG09

Rev.: 01

Page: 110 of 121

9.2.2 SAR Result of BT

				Bluet	ooth SAR	Test Recor	d				
	Ant10 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head	d Test data	Receiver or	า				
Left cheek	DH5	39/2441	77.07%	1.298	0.104	0.09	10.82	12.00	1.314	0.177	22.5
Left tilted	DH5	39/2441	77.07%	1.298	0.088	-0.06	10.82	12.00	1.314	0.150	22.5
Right cheek	DH5	39/2441	77.07%	1.298	0.047	-0.09	10.82	12.00	1.314	0.080	22.5
Right tilted	DH5	39/2441	77.07%	1.298	0.052	-0.08	10.82	12.00	1.314	0.089	22.5
			Е	ody wor	n Test data(Separate 1	5mm)				
Front side	DH5	39/2441	77.07%	1.298	0.009	0.02	14.76	16.00	1.332	0.016	22.5
Back side	DH5	39/2441	77.07%	1.298	0.016	-0.07	14.76	16.00	1.332	0.028	22.5
				Hotspot	Test data (S	Separate 10	mm)				
Front side	DH5	39/2441	77.07%	1.298	0.035	0.12	14.76	16.00	1.332	0.060	22.5
Back side	DH5	39/2441	77.07%	1.298	0.049	-0.10	14.76	16.00	1.332	0.085	22.5
Right side	DH5	39/2441	77.07%	1.298	0.078	-0.12	14.76	16.00	1.332	0.135	22.5
Top side	DH5	39/2441	77.07%	1.298	0.054	-0.10	14.76	16.00	1.332	0.093	22.5

Table 31: SAR of BT for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 111 of 121

9.3 Multiple Transmitter Evaluation

9.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WIFI2.4G MIMO	Υ	Y	Υ	Y
2	WWAN + WIFI5G MIMO	Υ	Υ	Υ	Y
3	WIFI5G MIMO + BT	Υ	Y	Υ	Y
4	WWAN + BT	Υ	Y	Υ	Y
5	WWAN + WIFI5G MIMO + BT	Υ	Υ	Υ	Y

Note:

- 1) The device 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 function.
- 3) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 4) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 112 of 121

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

			SARmax	(W/kg)			
Test p	position	Main	WiFi 2.4G MIMO	WiFi 5G MIMO	ВТ	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
	Left cheek	0.792	0.302	0.376	0.177	1.094	1.345
0014050	Left tilted	0.308	0.174	0.482	0.150	0.482	0.940
GSM850	Right cheek	0.448	0.084	0.295	0.080	0.532	0.823
	Right tilted	0.233	0.080	0.397	0.089	0.313	0.719
	Left cheek	0.653	0.302	0.376	0.177	0.955	1.206
	Left tilted	0.744	0.174	0.482	0.150	0.918	1.376
GSM1900	Right cheek	0.955	0.084	0.295	0.080	1.039	1.330
	Right tilted	1.049	0.080	0.397	0.089	1.129	1.535
	Left cheek	0.646	0.302	0.376	0.177	0.948	1.199
	Left tilted	0.758	0.174	0.482	0.150	0.932	1.390
WCDMA Band II	Right cheek	0.926	0.084	0.295	0.080	1.010	1.301
	Right tilted	1.033	0.080	0.397	0.089	1.113	1.519
	Left cheek	0.805	0.302	0.376	0.177	1.107	1.358
	Left tilted	0.771	0.174	0.482	0.150	0.945	1.403
WCDMA Band IV	Right cheek	1.071	0.084	0.295	0.080	1.155	1.446
	Right tilted	0.990	0.080	0.397	0.089	1.070	1.476
	Left cheek	0.956	0.302	0.376	0.177	1.258	1.509
-	Left tilted	0.161	0.174	0.482	0.150	0.335	0.793
WCDMA Band V	Right cheek	0.523	0.084	0.295	0.080	0.607	0.898
	Right tilted	0.212	0.080	0.397	0.089	0.007	0.698
	Left cheek	0.563	0.302	0.376	0.089	0.292	1.116
	Left tilted	0.563	0.302	0.482	0.177	0.852	1.310
LTE Band 2		0.990	0.084	0.482	0.080	1.074	1.365
	Right cheek Right tilted	1.088	0.080	0.295	0.089	1.074	1.574
				+	+	+	
-	Left cheek	0.794	0.302	0.376	0.177	1.096	1.347
LTE Band 4	Left tilted	0.000	0.174 0.084	0.482	0.150 0.080	0.174 1.093	0.632
	Right cheek	1.009		0.295			1.384
	Right tilted	0.000	0.080	0.397	0.089	0.080	0.486
-	Left cheek	0.844	0.302	0.376	0.177	1.146	1.397
LTE Band 7	Left tilted	0.494	0.174	0.482	0.150	0.668	1.126
-	Right cheek	0.895	0.084	0.295	0.080	0.979	1.270
	Right tilted	0.924	0.080	0.397	0.089	1.004	1.410
	Left cheek	0.657	0.302	0.376	0.177	0.959	1.210
LTE Band 12	Left tilted	0.104	0.174	0.482	0.150	0.278	0.736
-	Right cheek	0.491	0.084	0.295	0.080	0.575	0.866
	Right tilted	0.092	0.080	0.397	0.089	0.172	0.578
	Left cheek	0.826	0.302	0.376	0.177	1.128	1.379
LTE Band 13	Left tilted	0.144	0.174	0.482	0.150	0.318	0.776
	Right cheek	0.590	0.084	0.295	0.080	0.674	0.965
	Right tilted	0.114	0.080	0.397	0.089	0.194	0.600
	Left cheek	0.779	0.302	0.376	0.177	1.081	1.332
LTE Band 26	Left tilted	0.164	0.174	0.482	0.150	0.338	0.796
	Right cheek	0.483	0.084	0.295	0.080	0.567	0.858
	Right tilted	0.186	0.080	0.397	0.089	0.266	0.672
<u> </u>	Left cheek	0.443	0.302	0.376	0.177	0.745	0.996
LTE Band 41	Left tilted	0.412	0.174	0.482	0.150	0.586	1.044
	Right cheek	0.707	0.084	0.295	0.080	0.791	1.082



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 113 of 121

	Right tilted	0.812	0.080	0.397	0.089	0.892	1.298
	Left cheek	1.025	0.302	0.376	0.177	1.327	1.578
LTE Band 66	Left tilted	0.418	0.174	0.482	0.150	0.592	1.050
LIE Daliu 00	Right cheek	0.641	0.084	0.295	0.080	0.725	1.016
	Right tilted	0.564	0.080	0.397	0.089	0.644	1.050
	Left cheek	0.981	0.302	0.376	0.177	1.283	1.534
5G NR n5	Left tilted	0.179	0.174	0.482	0.150	0.353	0.811
SG INK IIS	Right cheek	0.654	0.084	0.295	0.080	0.738	1.029
	Right tilted	0.234	0.080	0.397	0.089	0.314	0.720
	Left cheek	0.466	0.302	0.376	0.177	0.768	1.019
5G NR n7	Left tilted	0.485	0.174	0.482	0.150	0.659	1.117
OG INK III	Right cheek	0.946	0.084	0.295	0.080	1.030	1.321
	Right tilted	0.885	0.080	0.397	0.089	0.965	1.371
	Left cheek	0.520	0.302	0.376	0.177	0.822	1.073
5G NR n41	Left tilted	0.247	0.174	0.482	0.150	0.421	0.879
3G NR 1141	Right cheek	1.044	0.084	0.295	0.080	1.128	1.419
	Right tilted	0.484	0.080	0.397	0.089	0.564	0.970
	Left cheek	0.633	0.302	0.376	0.177	0.935	1.186
5G NR n66	Left tilted	0.698	0.174	0.482	0.150	0.872	1.330
OG INK 1100	Right cheek	0.997	0.084	0.295	0.080	1.081	1.372
	Right tilted	1.042	0.080	0.397	0.089	1.122	1.528
	Left cheek	0.692	0.302	0.376	0.177	0.994	1.245
5G NR n77	Left tilted	0.752	0.174	0.482	0.150	0.926	1.384
Part27Q	Right cheek	0.792	0.084	0.295	0.080	0.876	1.167
	Right tilted	0.772	0.080	0.397	0.089	0.852	1.258
	Left cheek	0.755	0.302	0.376	0.177	1.057	1.308
5G NR n77	Left tilted	0.921	0.174	0.482	0.150	1.095	1.553
Part27O	Right cheek	0.692	0.084	0.295	0.080	0.776	1.067
	Right tilted	0.746	0.080	0.397	0.089	0.826	1.232



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 114 of 121

Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Bodv-worn:

			SARmax (W/kg)			
Test po	sition	Main	WiFi 2.4G MIMO	WiFi 5G MIMO	ВТ	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
CCMOFO	Front side	0.441	0.179	0.297	0.016	0.738	0.754
GSM850	Back side	0.624	0.282	0.397	0.028	1.021	1.049
00144000	Front side	0.145	0.179	0.297	0.016	0.442	0.458
GSM1900	Back side	0.248	0.282	0.397	0.028	0.645	0.673
MODMA Decill	Front side	0.623	0.179	0.297	0.016	0.920	0.936
WCDMA Band II	Back side	0.853	0.282	0.397	0.028	1.250	1.278
\\(\(\O\D\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Front side	0.592	0.179	0.297	0.016	0.889	0.905
WCDMA Band IV	Back side	1.072	0.282	0.397	0.028	1.469	1.497
MODMA Decady	Front side	0.376	0.179	0.297	0.016	0.673	0.689
WCDMA Band V	Back side	0.565	0.282	0.397	0.028	0.962	0.990
LTE Davido	Front side	0.708	0.179	0.297	0.016	1.005	1.021
LTE Band 2	Back side	1.012	0.282	0.397	0.028	1.409	1.437
LTE David	Front side	0.617	0.179	0.297	0.016	0.914	0.930
LTE Band 4	Back side	0.930	0.282	0.397	0.028	1.327	1.355
LTE D	Front side	0.534	0.179	0.297	0.016	0.831	0.847
LTE Band 7	Back side	0.823	0.282	0.397	0.028	1.220	1.248
LTE Davidao	Front side	0.378	0.179	0.297	0.016	0.675	0.691
LTE Band 12	Back side	0.537	0.282	0.397	0.028	0.934	0.962
LTC David 40	Front side	0.632	0.179	0.297	0.016	0.929	0.945
LTE Band 13	Back side	0.909	0.282	0.397	0.028	1.306	1.334
LTE David OC	Front side	0.401	0.179	0.297	0.016	0.698	0.714
LTE Band 26	Back side	0.690	0.282	0.397	0.028	1.087	1.115
LTC David 44	Front side	0.326	0.179	0.297	0.016	0.623	0.639
LTE Band 41	Back side	0.670	0.282	0.397	0.028	1.067	1.095
LTC Dand 66	Front side	0.491	0.179	0.297	0.016	0.788	0.804
LTE Band 66	Back side	0.925	0.282	0.397	0.028	1.322	1.350
EC ND ve	Front side	0.307	0.179	0.297	0.016	0.604	0.620
5G NR n5	Back side	0.403	0.282	0.397	0.028	0.800	0.828
50 ND7	Front side	0.342	0.179	0.297	0.016	0.639	0.655
5G NR n7	Back side	0.732	0.282	0.397	0.028	1.129	1.157
50 ND =44	Front side	0.471	0.179	0.297	0.016	0.768	0.784
5G NR n41	Back side	0.882	0.282	0.397	0.028	1.279	1.307
EC ND xcc	Front side	0.353	0.179	0.297	0.016	0.650	0.666
5G NR n66	Back side	0.771	0.282	0.397	0.028	1.168	1.196
5G NR n77	Front side	0.280	0.179	0.297	0.016	0.577	0.593
Part27Q	Back side	0.624	0.282	0.397	0.028	1.021	1.049
5G NR n77	Front side	0.339	0.179	0.297	0.016	0.636	0.652
Part27O	Back side	0.748	0.282	0.397	0.028	1.145	1.173



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 115 of 121

Hotspot:

			SARmax	`,			
Test p	osition	Main	WiFi 2.4G MIMO	WiFi 5G MIMO	ВТ	Summ	ed SAR
		1	2	3	4	1+2	1+3+4
	Front side	0.353	0.331	0.384	0.060	0.684	0.797
	Back side	0.516	0.525	0.530	0.085	1.041	1.131
GSM850	Left side	0.713	0.000	0.000	0.000	0.713	0.713
GSIVIOSO	Right side	0.259	0.624	0.587	0.135	0.883	0.981
	Top side	0.000	0.179	0.748	0.093	0.179	0.841
	Bottom side	0.210	0.000	0.000	0.000	0.210	0.210
	Front side	0.362	0.331	0.384	0.060	0.693	0.806
	Back side	0.495	0.525	0.530	0.085	1.020	1.110
CCM4000	Left side	0.145	0.000	0.000	0.000	0.145	0.145
GSM1900	Right side	0.000	0.624	0.587	0.135	0.624	0.722
	Top side	0.544	0.179	0.748	0.093	0.723	1.385
	Bottom side	0.746	0.000	0.000	0.000	0.746	0.746
	Front side	0.527	0.331	0.384	0.060	0.858	0.971
	Back side	0.709	0.525	0.530	0.085	1.234	1.324
A/ODNAA Daaalii	Left side	0.229	0.000	0.000	0.000	0.229	0.229
WCDMA Band II	Right side	0.000	0.624	0.587	0.135	0.624	0.722
	Top side	0.527	0.179	0.748	0.093	0.706	1.368
	Bottom side	0.993	0.000	0.000	0.000	0.993	0.993
	Front side	0.463	0.331	0.384	0.060	0.794	0.907
	Back side	0.622	0.525	0.530	0.085	1.147	1.237
VCDMA Band IV	Left side	0.369	0.000	0.000	0.000	0.369	0.369
	Right side	0.623	0.624	0.587	0.135	1.247	1.345
	Top side	0.528	0.179	0.748	0.093	0.707	1.369
	Bottom side	0.942	0.000	0.000	0.000	0.942	0.942
	Front side	0.545	0.331	0.384	0.060	0.876	0.989
	Back side	0.745	0.525	0.530	0.085	1.270	1.360
	Left side	0.935	0.000	0.000	0.000	0.935	0.935
WCDMA Band V	Right side	0.609	0.624	0.587	0.135	1.233	1.331
	Top side	0.000	0.179	0.748	0.093	0.179	0.841
	Bottom side	0.393	0.000	0.000	0.000	0.393	0.393
	Front side	0.582	0.331	0.384	0.060	0.913	1.026
	Back side	0.718	0.525	0.530	0.085	1.243	1.333
	Left side	0.237	0.000	0.000	0.000	0.237	0.237
LTE Band 2	Right side	0.000	0.624	0.587	0.135	0.624	0.722
	Top side	0.491	0.179	0.748	0.093	0.670	1.332
	Bottom side	1.064	0.000	0.000	0.000	1.064	1.064
	Front side	0.355	0.331	0.384	0.060	0.686	0.799
	Back side	0.479	0.525	0.530	0.085	1.004	1.094
	Left side	0.251	0.000	0.000	0.000	0.251	0.251
LTE Band 4	Right side	0.570	0.624	0.587	0.135	1.194	1.292
	Top side	0.181	0.179	0.748	0.093	0.360	1.022
	Bottom side	0.702	0.000	0.000	0.000	0.702	0.702
	Front side	0.336	0.331	0.384	0.060	0.667	0.780
	Back side	0.506	0.525	0.530	0.085	1.031	1.121
	Left side	0.495	0.000	0.000	0.000	0.495	0.495
LTE Band 7							
-	Right side	0.852	0.624	0.587	0.135	1.476	1.574
	Top side	0.287	0.179	0.748	0.093	0.466	1.128



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 116 of 121

		Т		T	Т	T	
	Front side	0.440	0.331	0.384	0.060	0.771	0.884
	Back side	0.764	0.525	0.530	0.085	1.289	1.379
LTE Band 12	Left side	1.051	0.000	0.000	0.000	1.051	1.051
	Right side	0.274	0.624	0.587	0.135	0.898	0.996
	Top side	0.000	0.179	0.748	0.093	0.179	0.841
	Bottom side	0.110	0.000	0.000	0.000	0.110	0.110
	Front side	0.499	0.331	0.384	0.060	0.830	0.943
	Back side	0.719	0.525	0.530	0.085	1.244	1.334
LTE Band 13	Left side	0.904	0.000	0.000	0.000	0.904	0.904
ETE Bana 10	Right side	0.583	0.624	0.587	0.135	1.207	1.305
	Top side	0.000	0.179	0.748	0.093	0.179	0.841
	Bottom side	0.346	0.000	0.000	0.000	0.346	0.346
	Front side	0.439	0.331	0.384	0.060	0.770	0.883
	Back side	0.898	0.525	0.530	0.085	1.423	1.513
LTE Band 26	Left side	0.969	0.000	0.000	0.000	0.969	0.969
LIL Dana 20	Right side	0.206	0.624	0.587	0.135	0.830	0.928
	Top side	0.000	0.179	0.748	0.093	0.179	0.841
	Bottom side	0.166	0.000	0.000	0.000	0.166	0.166
	Front side	0.308	0.331	0.384	0.060	0.639	0.752
	Back side	0.523	0.525	0.530	0.085	1.048	1.138
LTE Band 41	Left side	0.192	0.000	0.000	0.000	0.192	0.192
LTE Dallu 41	Right side	0.529	0.624	0.587	0.135	1.153	1.251
	Top side	0.277	0.179	0.748	0.093	0.456	1.118
	Bottom side	0.550	0.000	0.000	0.000	0.550	0.550
	Front side	0.543	0.331	0.384	0.060	0.874	0.987
	Back side	0.692	0.525	0.530	0.085	1.217	1.307
LTE Dond CC	Left side	0.440	0.000	0.000	0.000	0.440	0.440
LTE Band 66	Right side	0.784	0.624	0.587	0.135	1.408	1.506
	Top side	0.628	0.179	0.748	0.093	0.807	1.469
	Bottom side	1.038	0.000	0.000	0.000	1.038	1.038
	Front side	0.499	0.331	0.384	0.060	0.830	0.943
	Back side	0.788	0.525	0.530	0.085	1.313	1.403
CO ND C	Left side	1.013	0.000	0.000	0.000	1.013	1.013
5G NR n5	Right side	0.503	0.624	0.587	0.135	1.127	1.225
	Top side	0.000	0.179	0.748	0.093	0.179	0.841
	Bottom side	0.384	0.000	0.000	0.000	0.384	0.384
	Front side	0.220	0.331	0.384	0.060	0.551	0.664
	Back side	0.349	0.525	0.530	0.085	0.874	0.964
50 ND . 7	Left side	0.327	0.000	0.000	0.000	0.327	0.327
5G NR n7	Right side	0.629	0.624	0.587	0.135	1.253	1.351
	Top side	0.305	0.179	0.748	0.093	0.484	1.146
	Bottom side	0.400	0.000	0.000	0.000	0.400	0.400
	Front side	0.276	0.331	0.384	0.060	0.607	0.720
	Back side	0.445	0.525	0.530	0.085	0.970	1.060
50 ND +44	Left side	0.288	0.000	0.000	0.000	0.288	0.288
5G NR n41	Right side	0.694	0.624	0.587	0.135	1.318	1.416
	Top side	0.235	0.179	0.748	0.093	0.414	1.076
	Bottom side	0.375	0.000	0.000	0.000	0.375	0.375
	Front side	0.496	0.331	0.384	0.060	0.827	0.940
	Back side	0.628	0.525	0.530	0.085	1.153	1.243
FO NE CO	Left side	0.512	0.000	0.000	0.000	0.512	0.512
5G NR n66	Right side	0.519	0.624	0.587	0.135	1.143	1.241
	Top side	0.512	0.179	0.748	0.093	0.691	1.353
	Bottom side	0.863	0.000	0.000	0.000	0.863	0.863
		•			•		



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 117 of 121

	Front side	0.261	0.331	0.384	0.060	0.592	0.705
	Back side	0.576	0.525	0.530	0.085	1.101	1.191
5G NR n77	Left side	0.643	0.000	0.000	0.000	0.643	0.643
Part27Q	Right side	0.638	0.624	0.587	0.135	1.262	1.360
	Top side	0.638	0.179	0.748	0.093	0.817	1.479
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.144	0.331	0.384	0.060	0.475	0.588
	Back side	0.337	0.525	0.530	0.085	0.862	0.952
5G NR n77	Left side	0.203	0.000	0.000	0.000	0.203	0.203
Part27O	Right side	0.369	0.624	0.587	0.135	0.993	1.091
	Top side	0.381	0.179	0.748	0.093	0.560	1.222
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

Product specific 10gSAR:

		SARn	nax (W/kg)	
Tes	t position	Main	WiFi 5G MIMO	Summed SAR
		1	2	1+2
	Front side	0.000	0.703	0.703
	Back side	0.000	0.585	0.585
GSM850	Left side	1.987	0.000	1.987
GSIVIOSU	Right side	0.000	2.115	2.115
	Top side	0.000	2.386	2.386
	Bottom side	0.000	0.000	0.000
	Front side	0.000	0.573	0.573
	Back side	0.000	0.444	0.444
WCDMA V	Left side	1.330	0.000	1.330
WCDIVIA V	Right side	0.000	1.690	1.690
	Top side	0.000	1.997	1.997
	Bottom side	0.000	0.000	0.000
	Front side	0.000	0.573	0.573
	Back side	0.000	0.444	0.444
LTC Daniel 0	Left side	0.000	0.000	0.000
LTE Band 2	Right side	0.000	1.690	1.690
Ī	Top side	0.000	1.997	1.997
Ī	Bottom side	2.368	0.000	2.368
	Front side	0.000	0.703	0.703
Ī	Back side	1.663	0.585	2.248
LTE Daniel 40	Left side	1.453	0.000	1.453
LTE Band 13	Right side	0.000	2.115	2.115
	Top side	0.000	2.386	2.386
Ī	Bottom side	0.000	0.000	0.000



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 118 of 121

9.3.3 SAR Result of LTE Band 12

				LTE	Band 12 S	AR Test Re	ecord				
					Ant 0 Te	st 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 1-g (W/kg)	Liquid Temp.(℃)
						Data(1RB)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.090	-0.17	23.55	25.00	1.396	0.126	22.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.045	-0.16	23.55	25.00	1.396	0.063	22.2
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.077	0.13	23.55	25.00	1.396	0.108	22.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.049	0.17	23.55	25.00	1.396	0.068	22.2
				l	Head Test D	ata(50%RI	3)				,
Left cheek		QPSK 25_0	23095/707.5	1:1	0.076	-0.18	22.63	24.00	1.371	0.104	22.2
Left tilted		QPSK 25_0	23095/707.5	1:1	0.040	-0.16	22.63	24.00	1.371	0.055	22.2
Right cheek		QPSK 25_0	23095/707.5	1:1	0.069	0.07	22.63	24.00	1.371	0.095	22.2
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.047	-0.10	22.63	24.00	1.371	0.064	22.2
				Body wor	n Test data	(Separate 1					
Front side	10	QPSK 1_0	23095/707.5	1:1	0.121	-0.12	23.55	25.00	1.396	0.169	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.143	-0.16	23.55	25.00	1.396	0.200	22.2
				Body worn		eparate 15	mm 50%RB)				
Front side		QPSK 25_0	23095/707.5	1:1	0.147	0.07	22.63	24.00	1.371	0.202	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.136	0.14	22.63	24.00	1.371	0.186	22.2
				Hotspot	Test data(S						
Front side	10	QPSK 1_0	23095/707.5	1:1	0.176	-0.08	23.55	25.00	1.396	0.246	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.210	0.16	23.55	25.00	1.396	0.293	22.2
Right side	10	QPSK 1_0	23095/707.5	1:1	0.196	-0.17	23.55	25.00	1.396	0.274	22.2
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.079	-0.19	23.55	25.00	1.396	0.110	22.2
				Hotspot T	est data(Se	parate 10m	m 50%RB)				
Front side		QPSK 25_0	23095/707.5	1:1	0.165	-0.06	22.63	24.00	1.371	0.226	22.2
Back side		QPSK 25_0	23095/707.5	1:1	0.200	0.09	22.63	24.00	1.371	0.274	22.2
Right side		QPSK 25_0	23095/707.5	1:1	0.181	-0.07	22.63	24.00	1.371	0.248	22.2
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.073	-0.13	22.63	24.00	1.371	0.100	22.2
					ı .	st Record				1	
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg)	Power	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g	Liquid Temp.(℃)
					1-g	(dB) Data(1RB)				(W/kg)	
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.431	0.14	23.57	25.40	1.524	0.657	22.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.068	-0.17	23.57	25.40	1.524	0.104	22.2
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.297	-0.17	23.57	25.40	1.524	0.453	22.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.257	-0.12	23.57	25.40	1.524	0.433	22.2
rtigrit tiited	10	QI SIX I_0	23093/101.3		Head Test D			23.40	1.524	0.002	22.2
Left cheek	10	OPSK 25_0	23095/707.5	1:1	0.422	0.19	22.55	24.40	1.531	0.646	22.2
Left tilted			23095/707.5	1:1	0.060	0.03	22.55	24.40	1.531	0.040	22.2
Right cheek			23095/707.5	1:1	0.321	-0.07	22.55	24.40	1.531	0.092	22.2
			23095/707.5	1:1	0.060	-0.07	22.55	24.40	1.531	0.491	22.2
Right tilted	10	WEON 20_0	23093/101.5		n Test data	,		24.40	1.331	0.092	
Front side	10	OBSK 1 0	23095/707.5	1:1			23.57	25.40	1 524	0.225	22.2
Back side		QPSK 1_0 QPSK 1_0	23095/707.5	1:1	0.154 0.295	0.09	23.57	25.40 25.40	1.524 1.524	0.235 0.450	22.2 22.2
Dack Side	10	U_0 \ 1_0	23033/101.5				mm 50%RB)	25.40	1.324	0.430	22.2
Front side	10	ODOKAFA	23095/707.5			1	1	24.40	1 501	0.270	22.2
		QPSK 25_0		1:1	0.247	0.11	22.55	24.40	1.531	0.378	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.351	0.19	22.55	24.40	1.531	0.537	22.2
Eront side	10	ODCK 4 A	22005/707.5	•	Test data(S	1	· ·	25.40	1 504	0.440	22.2
Front side	10	QPSK 1_0	23095/707.5	1:1	0.289	-0.17	23.57	25.40	1.524	0.440	22.2



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 119 of 121

Back side	10	QPSK 1_0	23095/707.5	1:1	0.501	-0.15	23.57	25.40	1.524	0.764	22.2
Left side	10	QPSK 1_0	23095/707.5	1:1	0.686	0.04	23.57	25.40	1.524	1.046	22.2
	Hotspot Test data(Separate 10mm 50%RB)										
Front side	10	QPSK 25_0	23095/707.5	1:1	0.265	-0.16	22.55	24.40	1.531	0.406	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.399	0.06	22.55	24.40	1.531	0.611	22.2
Left side	10	QPSK 25_0	23095/707.5	1:1	0.587	0.07	22.55	24.40	1.531	0.899	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Left side	10	QPSK 50_0	23095/707.5	1:1	0.691	0.17	22.58	24.40	1.521	1.051	22.2

Table 32: SAR of LTE Band 12 for Head and Body.



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 120 of 121

10 Equipment list

Test Platform	SPEAG DASY5 Professional
Description	SAR Test System (Frequency range 300MHz-6GHz)
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

	Hardware Reference									
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration				
\boxtimes	Twin Phantom	SPEAG	SAM 1	1769	NCR	NCR				
\boxtimes	Twin Phantom	SPEAG	SAM 3	1770	NCR	NCR				
\boxtimes	DAE	SPEAG	DAE4	1374	2023-06-05	2024-06-04				
	E-Field Probe	SPEAG	EX3DV4	3982	2023-01-06	2024-01-05				
	E-Field Probe	SPEAG	EX3DV4	7466	2023-01-26	2024-01-25				
\boxtimes	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07				
	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2024-08-24				
	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15				
\boxtimes	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2024-05-03				
\boxtimes	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2024-08-27				
\boxtimes	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11				
\boxtimes	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16				
\boxtimes	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19				
	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24				
	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05				
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05				
	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12				
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR				
	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05				
\boxtimes	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR				
	Power Sensor	Keysight	U2002H	121251	2023-09-13	2024-09-12				
	Attenuator	SHX	TS2-3dB	30704	NCR	NCR				
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR				
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR				
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR				
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2023-09-14	2024-09-13				
	Humidity and Temperature Indicator	MingGao	MingGao	NA	2023-09-14	2024-09-13				

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



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Report No.: SEWM2311000454RG09

Rev.: 01

Page: 121 of 121

11 Calibration certificate

Please see the Appendix C

12 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



