

Report No.: AR/2021/1000808

: 1 of 132

FCC SAR TEST REPORT

AR/2021/1000808 **Report No:**

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

Product Name: Mobile Phone

Model No.(EUT): M2103K19G / M2103K19PG

Brand Name: Redmi / POCO FCC ID: 2AFZZK19G

FCC 47CFR §2.1093 Standards:

Date of Receipt: 2021-02-09

Date of Test: 2021-02-17 to 2021-03-28

Date of Issue: 2021-04-10 Test conclusion: PASS *

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

Authorized Signature:

Derele yang

Derek Yang

Wireless Laboratory Manager

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

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



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Report No.: AR/2021/1000808

Page : 2 of 132

REVISION HISTORY

Report Number	Revision	Description	Issue Date
AR/2021/1000808	01	Original	2021-04-01
AR/2021/1000808	02	Original	2021-04-10



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Report No.: AR/2021/1000808

Page : 3 of 132

TEST SUMMARY

	Maximum Reported SAR(W/kg)										
Frequency Band	Head	Body-worn	Hotspot	Product specific 10g SAR							
GSM850	0.70	0.24	0.27	/							
GSM1900	0.60	0.23	0.50	/							
WCDMA Band II	0.80	0.66	0.99	1.52							
WCDMA Band IV	0.32	1.06	1.06	1.74							
WCDMA Band V	0.91	0.31	0.31	/							
LTE Band 2	0.94	0.72	1.01	1.34							
LTE Band 4	0.35	0.58	0.80	1.97							
LTE Band 5	0.87	0.27	0.27	/							
LTE Band 7	0.92	0.49	0.49	/							
LTE Band 12	0.69	0.34	0.34	/							
LTE Band 17	0.71	0.35	0.35	/							
LTE Band 38	0.64	0.59	0.59	/							
LTE Band 41	0.49	0.57	0.57	/							
LTE Band 66	0.32	0.55	0.64	2.04							
NR Band 7	0.93	0.67	0.67	/							
NR Band 38	0.69	0.54	0.54	/							
NR Band 41	0.86	0.69	0.69	/							
NR Band 66	0.37	0.58	0.77	/							
NR Band 77	0.73	0.48	0.91	/							
NR Band 78	0.70	0.74	0.95	/							
WiFi 2.4G	0.54	0.16	0.16	/							
WiFi 5G	0.84	0.86	0.97	1.19							
BT	0.05	0.01	0.01	/							
SAR Limited(W/kg)		1.6		4.0							
·	Maximum Simultar	neous Transmission SA	AR (W/kg)								
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR							
Sum SAR	1.57	1.58	1.58	2.29							
SPLSR	N/A	0.026	0.026	N/A							
SPLSR Limited		0.04		0.1							

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

Reviewed by

alfson li

Jackson Li

Prepared by

Roman Pan

Roman Pan



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Report No.: AR/2021/1000808

Page : 4 of 132

CONTENTS

1	GENERAL INFORMATION	
	1.1 DETAILS OF CLIENT	7
	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	14
	1.5 TEST SPECIFICATION	16
	1.6 RF EXPOSURE LIMITS	17
2	LABORATORY ENVIRONMENT	18
3	SAR MEASUREMENTS SYSTEM CONFIGURATION	19
	3.1 THE SAR MEASUREMENT SYSTEM	19
	3.2 ISOTROPIC E-FIELD PROBE EX3DV4	
	3.3 DATA ACQUISITION ELECTRONICS (DAE)	
	3.4 SAM TWIN PHANTOM	
	3.5 ELI PHANTOM	22
	3.6 DEVICE HOLDER FOR TRANSMITTERS	23
	3.7 MEASUREMENT PROCEDURE	24
	3.7.1 Scanning procedure	
	3.7.2 Data Storage	
	3.7.3 Data Evaluation by SEMCAD	26
4	SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	28
	4.1 SAR MEASUREMENT VARIABILITY	28
	4.2 SAR MEASUREMENT UNCERTAINTY	28
5	DESCRIPTION OF TEST POSITION	29
	5.1 HEAD EXPOSURE CONDITION	29
	5.1.1 SAM Phantom Shape	29
	5.1.2 EUT constructions	30
	5.1.3 Definition of the "cheek" position	30
	5.1.4 Definition of the "tilted" position	31
	5.2 BODY EXPOSURE CONDITION	
	5.2.1 Body-worn accessory exposure conditions	
	5.2.2 Wireless Router exposure conditions	
	5.3 EXTREMITY EXPOSURE CONDITIONS	
	5.1 PROXIMITY SENSOR TRIGGERING TEST	38
6	SAR SYSTEM VERIFICATION PROCEDURE	46
	6.1 TISSUE SIMULATE LIQUID	
	6.1.1 Recipes for Tissue Simulate Liquid	
	6.1.2 Measurement for Tissue Simulate Liquid	
	6.2 SAR SYSTEM CHECK	48



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Report No.: AR/2021/1000808

Page : 5 of 132

	6.2.1	Justification for Extended SAR Dipole Calibrations	49
	6.2.2	Summary System Check Result(s)	
	6.2.3	Detailed System Check Results	
7	TEST (CONFIGURATION	51
	7.1 30	G SAR TEST REDUCTION PROCEDURE	51
	7.2 0	PERATION CONFIGURATIONS	51
	7.2.1	GSM Test Configuration	51
	7.2.2	WCDMA Test Configuration	52
	7.2.3	WiFi Test Configuration	58
	7.2.4	LTE Test Configuration	65
	7.2.5	NR Band Test Configuration	68
8	TEST F	RESULT	71
	8.1 M	IEASUREMENT OF RF CONDUCTED POWER	
	8.1.1	Conducted Power of GSM	
	8.1.2	Conducted Power of WCDMA	
	8.1.3	Conducted Power of LTE	
	8.1.4	Conducted Power of Uplink & Downlink LTE CA	
	8.1.5	Conducted Power of WIFI	74
	8.1.6	Conducted Power of BT	
		TAND-ALONE SAR TEST EVALUATION	
	8.3 M	IEASUREMENT OF SAR DATA	
	8.3.1	SAR Result of GSM850	
	8.3.2	SAR Result of GSM1900	
	8.3.3	SAR Result of WCDMA Band II	
	8.3.4	SAR Result of WCDMA Band IV	
	8.3.5	SAR Result of WCDMA Band V	
	8.3.6	SAR Result of LTE Band 2	
	8.3.7	SAR Result of LTE Band 4	
	8.3.8	SAR Result of LTE Band 5	
	8.3.9	SAR Result of LTE Band 7	
	8.3.10	SAR Result of LTE Band 12	
	8.3.11	SAR Result of LTE Band 17	
	8.3.12	SAR Result of LTE Band 38	
	8.3.13	SAR Result of LTE Band 41	
	8.3.14	SAR Result of LTE Band 66	
	8.3.15	SAR Result of 5G NR n7	
	8.3.16	SAR Result of 5G NR n38	
	8.3.17		
	8.3.1	SAR Result of 5G NR n66	
	8.3.2	SAR Result of 5G NR n77	
	8.3.1	SAR Result of 5G NR n78	
	8.3.2	SAR Result of WIFI 2.4G	
	8.3.3	SAR Result of WIFI 5G	
	8.3.4	SAR Result of BT	
		ULTIPLE TRANSMITTER EVALUATION	
	8.4.1	Simultaneous SAR SAR test evaluation	
	8.4.2	Simultaneous Transmission SAR Summation Scenario	
	8.4.3	SPLSR Evaluation Analysis	128



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Report No.: AR/2021/1000808

Page : 6 of 132

9	EQUIPMENT LIST	. 130
10	CALIBRATION CERTIFICATE	. 131
11	PHOTOGRAPHS	. 131
APP	ENDIX A: DETAILED SYSTEM CHECK RESULTS	. 131
APP	ENDIX B: DETAILED TEST RESULTS	. 131
APP	ENDIX C: CALIBRATION CERTIFICATE	. 131
APP	ENDIX D: PHOTOGRAPHS	. 131
APP	ENDIX E: CONDUCTED RF OUTPUT POWER TABLE	. 131



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Report No.: AR/2021/1000808

Page : 7 of 132

1 General Information

1.1 Details of Client

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

1.2 Test Location

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

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

Guangdong, China

Post code: 518057

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



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Report No.: AR/2021/1000808

: 8 of 132 Page

1.3 Test Facility

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

CNAS (No. CNAS L2929)

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

A2LA (Certificate No. 3816.01)

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

VCCI

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

FCC –Designation Number: CN1178

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

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

Industry Canada (IC)

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

CAB identifier: CN0006

IC#: 4620C.





Report No.: AR/2021/1000808

Page : 9 of 132

1.4 General Description of EUT

Device Type :	portable device											
Exposure Category:	uncontrolled environmen	nt / general population										
Product Name:	uncontrolled environment / general population Mobile Phone M2103K19G / M2103K19PG											
Model No.(EUT):												
FCC ID:	2AFZZK19G											
Brand name:	Redmi / POCO											
Product Phase:	Identical Prototype	Identical Prototype										
IMEI:	860441050052450/8604	860441050052450/860441050047575/860441050047153										
Hardware Version:	P2	P2										
Software Version:	MIUI 12											
Antenna Type:	PIFA Antenna											
Device Operating Configuratio	ns :											
	GSM: GMSK, 8PSK; W	CDMA: QPSK;										
	LTE: QPSK,16QAM,640											
Modulation Mode:		PI/2 BPSK, QPSK, 16QAM, 64QAM	1, 256QAM),									
	CP-OFDM (QPSK, 16Q		NCI/									
Device Class:	B	FDMA; BT: GFSK, π/4DQPSK,8DP	3N									
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33									
HSDPA UE Category:	24		7									
DC-HSDPA UE Category:	24 HSUPA UE Category 7											
DC-HSDFA OE Calegory.	4,tested with power level 5(GSM850)											
	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	Rx (MHz)										
	GSM850	Tx (MHz) 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									
	LTE Band 5	824~849	869-894									
Frequency Bands:	LTE Band 7	2500~2570	2620~2690									
Frequency Bands.	LTE Band 12	699~716	729~746									
	LTE Band 17	704~716	734~746									
		2570~2620	2570~2620									
	LTE Band 38	2496~2690	2496~2690									
	LTE Band 41	1710~1780										
	LTE Band 66		2110~2200 2620~2690									
	NR Band n7	2500~2570										
	NR Band n38	2570~2620	2570~2620									
	NR Band n41	2496~2690	2496~2690									
	NR Band n66 1710~1780 2110~220											



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Report No.: AR/2021/1000808

Page : 10 of 132

	NR Band n77	3700~3980	3700~3980
	NR Band n78	3700~3800	3700~3800
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G	2402~2462	2402~2462
		5150~5250	5150~5250
	Wi-Fi 5G	5250~5350	5250~5350
	VVI-TI 3G	5470~5725	5470~5725
		5725~5850	5725~5850

Note: The differences between M2103K19G (K19) and M2103K19PG (K19P) are as below:

Model name	Brand Name	rear cover
M2103K19G	Redmi	The material is the same, drawing is different, laser engraving is different
M2103K19PG	POCO	

Except listings above, the others are all the same as previous version. Based on the above differences, the main test only performs M2103K19G



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Report No.: AR/2021/1000808

Page : 11 of 132

1.4.1 DUT Antenna Locations(Back View)

Refer to Appendix D Photographs

Note:

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



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Report No.: AR/2021/1000808

Page : 12 of 132

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:

carr aratt are considered that											
EUT Sides for SAR Testing											
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom				
Ant1	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes				
Ant2	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No				
Ant4	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No				
Ant7	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No				

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

Note:

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



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Report No.: AR/2021/1000808

Page : 13 of 132

1.4.2 LTE CA additional specification

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

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

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

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

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

Intra-band contiguous CA operating bands:

E-UTRA CA Band		E-UTRA Band		_	erating band E transmit	Downlink (DI BS transn	Duplex Mode		
	Daria	Baria	Ful_lov	UL_high	F _{DL_lov}	modo			
ĺ	CA_7	7	2500 MHz	_	2570 MHz	2620 MHz		2690 MHz	FDD
ſ	CA_38	38	2570 MHz	-	2620 MHz	2570 MHz	_	2620 MHz	TDD



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Report No.: AR/2021/1000808

Page : 14 of 132

1.4.3 Power reduction specification

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

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

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

	Ant1 Power Level(dBm)															
Power Reduction Scenario	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B66	LTE B38	LTE B41	n7	n38	n41	n66
Receiver off	33.0	25.5	23.5	24.5	24.5	23.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Receiver on	33.5	30.5	23.5	24.5	24.5	24.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Sensor off	33.0	25.5	23.5	24.5	24.5	24.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Sensor on	33.0	25.5	20.5	19.5	22.0	20.0	20.5	23.5	20.5	21.0	23.0	22.5	20.5	22.0	21.0	21.0

Ant2 Power Level(dBm)						
Power Reduction Scenario	LTE B7(EN-DC)	n77	n78			
Receiver off	24.0	18.5	21.5			
Receiver on	20.0	17.0	18.5			
Sensor off	24.0	27.0	27.0			
Sensor on	19.5	16.5	16.5			

	Ant4 Power Level(dBm)											
Power Reduction Scenario	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B17	n7	n38	n41
Receiver off	22.5	24.0	24.5	22.5	24.5	25.0	24.0	25.0	25.0	24.0	23.5	23.0
Receiver on	22.5	24.0	23.0	22.5	24.5	23.0	24.0	24.5	24.5	24.0	23.5	23.0
Sensor off	22.5	24.0	24.5	22.5	24.5	25.0	24.0	25.0	25.0	24.0	23.5	23.0
Sensor on	21.0	23.5	23.0	21.0	24.0	23.0	22.0	24.5	24.5	20.5	22.5	22.5



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Report No.: AR/2021/1000808

Page : 15 of 132

	WIFI 5G Power	Level(dBm)	
Mode	Power Reduction Scenario	Receiver off	Receiver on
	U-NII-1	18.0	16.0
WIFI 5G 802.11a	U-NII-2A	18.0	16.0
	U-NII-2C	15.0	14.0
	U-NII-3	18.0	14.0
	U-NII-1	17.0	16.0
WIELEO 000 44 = 00M	U-NII-2A	17.0	16.0
VIFI 5G 802.11n 20M	U-NII-2C	15.0	14.0
	U-NII-3	17.0	14.0
	U-NII-1	16.0	16.0
WIELEC 000 44 = 40M	U-NII-2A	17.0	16.0
WIFI 5G 802.11n 40M	U-NII-2C	15.0	14.0
	U-NII-3	17.0	14.0
	U-NII-1	17.0	16.0
MUEL 50 000 11 - 2004	U-NII-2A	17.0	16.0
WIFI 5G 802.11ac 20M	U-NII-2C	15.0	14.0
	U-NII-3	17.0	14.0
	U-NII-1	16.0	16.0
W/IEL 50 000 44 40M	U-NII-2A	17.0	16.0
WIFI 5G 802.11ac 40M	U-NII-2C	15.0	14.0
	U-NII-3	17.0	14.0
	U-NII-1	17.0	16.0
MIEL 50 000 44 00M	U-NII-2A	17.0	16.0
WIFI 5G 802.11ac 80M	U-NII-2C	15.0	14.0
	U-NII-3	17.0	14.0



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Page : 16 of 132

1.5 Test Specification

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



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Page : 17 of 132

1.6 RF exposure limits

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

Notes:

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

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



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

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

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



Report No.: AR/2021/1000808

Page : 18 of 132

Laboratory Environment

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

Table 2: The Ambient Conditions



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: 19 of 132

SAR Measurements System Configuration

3.1 The SAR Measurement System

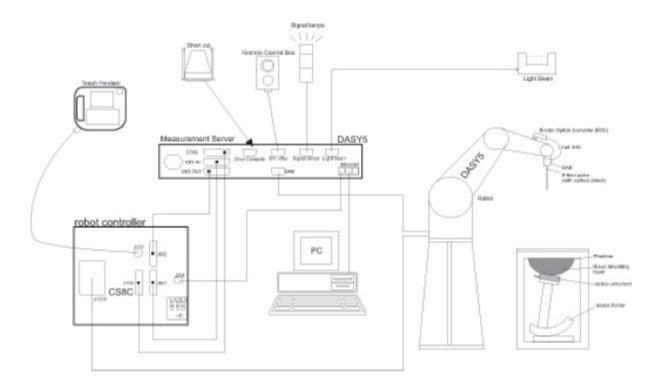
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the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

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

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

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

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



F-1. SAR Measurement System Configuration



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Report No.: AR/2021/1000808

: 20 of 132 Page

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

3.2 Isotropic E-field Probe EX3DV4

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



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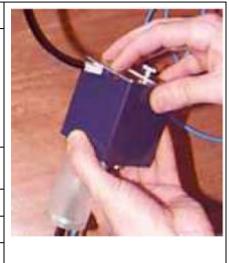


Report No.: AR/2021/1000808

Page : 21 of 132

3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



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

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



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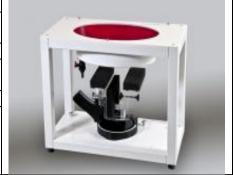


Report No.: AR/2021/1000808

Page : 22 of 132

3.5 ELI Phantom

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



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

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



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Report No.: AR/2021/1000808

Page : 23 of 132

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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Report No.: AR/2021/1000808

: 24 of 132 Page

3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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Report No.: AR/2021/1000808

Page : 25 of 132

			≤ 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 surface normal at the n			30° ± 1°	20° ± 1°	
			≤ 2 GHz: ≤ 15 mm 3 − 4 GHz: ≤ 12 mm 2 − 3 GHz: ≤ 12 mm 4 − 6 GHz: ≤ 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 about the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan s	Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform	grid: Δz _{Z∞m} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
	•				

Step 4: Power reference measurement (drift)

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



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Report No.: AR/2021/1000808

Page : 26 of 132

3.7.2 Data Storage

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

3.7.3 Data Evaluation by SEMCAD

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

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

Conversion factorDiode compression pointConvFiDcpi

Device parameters: - Frequency f
- Crest factor cf
Media parameters: - Conductivity ε

- Density ρ

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

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

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

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

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

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

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

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

E-field probes:

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



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Report No.: AR/2021/1000808

: 27 of 132 Page

H-field probes:

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

Vi = compensated signal of channel i

Normi = sensor sensitivity of channel I

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

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

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

SAR = local specific absorption rate in mW/g with

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.: AR/2021/1000808

Page : 28 of 132

4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

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

4.2 SAR measurement uncertainty

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



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Report No.: AR/2021/1000808

Page : 29 of 132

Description of Test Position

5.1 Head Exposure Condition

SAM Phantom Shape 5.1.1

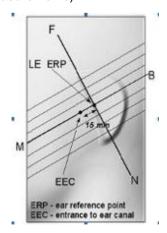


Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

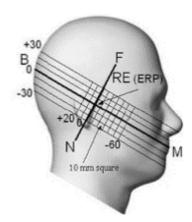
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



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



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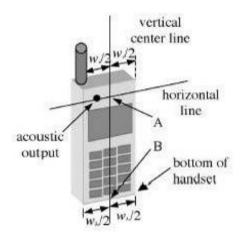
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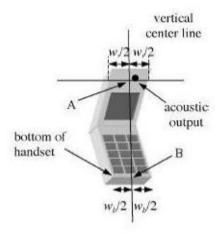
Report No.: AR/2021/1000808

Page : 30 of 132

5.1.2 EUT constructions



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



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

5.1.3 Definition of the "cheek" position

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



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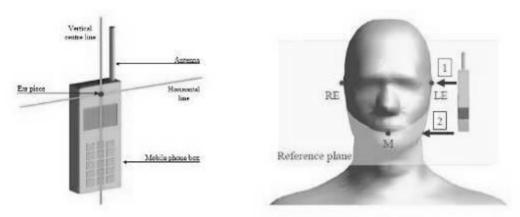


Report No.: AR/2021/1000808

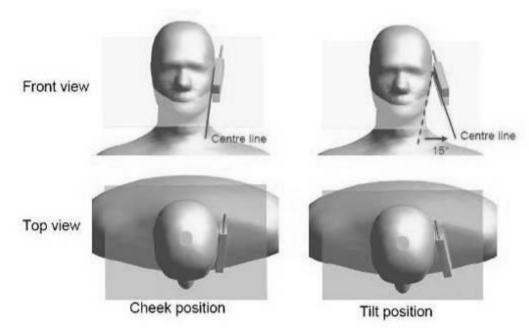
Page : 31 of 132

5.1.4 Definition of the "tilted" position

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



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



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



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Report No.: AR/2021/1000808

Page : 32 of 132

5.2 Body Exposure Condition

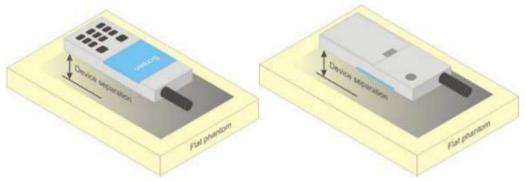
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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Report No.: AR/2021/1000808

Page : 33 of 132

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

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

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

maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test

WB2(Ant1)

reduction threshold.

WBZ(Ant1)										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Product Specific 10-g SAR SAR Exclusion
			Hotspot ⁻	Test data(Se	eparate 10m	nm) Sensor on				
Front side	RMC	9400/1880	1:1	0.262	-0.13	19.73	23.50	2.382	0.624	No
Back side	RMC	9400/1880	1:1	0.404	0.10	19.73	23.50	2.382	0.962	No
Bottom side	RMC	9400/1880	1:1	0.789	-0.08	19.73	23.50	2.382	1.880	Yes
Bottom side	RMC	9262/1852.4	1:1	0.810	0.02	19.71	23.50	2.393	1.939	Yes
Bottom side	RMC	9538/1907.6	1:1	0.758	-0.11	19.68	23.50	2.410	1.827	Yes
				Hotspot Tes	t data Sens	or off				
Front side-15mm	RMC	9400/1880	1:1	0.277	-0.16	22.67	23.50	1.211	0.335	No
Back side-15mm	RMC	9400/1880	1:1	0.544	-0.15	22.67	23.50	1.211	0.659	No
Left side-10mm	RMC	9400/1880	1:1	0.059	0.03	22.67	23.50	1.211	0.071	No
Right side-10mm	RMC	9400/1880	1:1	0.121	0.18	22.67	23.50	1.211	0.146	No
Bottom side - 15mm	RMC	9400/1880	1:1	0.810	-0.06	22.67	23.50	1.211	0.981	No
Bottom side - 15mm	RMC	9262/1852.4	1:1	0.884	-0.06	22.99	23.50	1.125	0.994	No
Bottom side - 15mm	RMC	9538/1907.6	1:1	0.765	0.11	22.55	23.50	1.245	0.952	No



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Report No.: AR/2021/1000808

Page : 34 of 132

WB4(Ant1)

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Product Specific 10-g SAR SAR Exclusion	
Hotspot Test data(Separate 10mm) Sensor on											
Front side	RMC	1412/1732.4	1:1	0.271	-0.04	18.08	24.50	4.385	1.188	No	
Back side	RMC	1412/1732.4	1:1	0.762	0.05	18.08	24.50	4.385	3.342	Yes	
Bottom side	RMC	1412/1732.4	1:1	0.405	0.13	18.08	24.50	4.385	1.776	Yes	
Hotspot Test data 15 mm Sensor off											
Front side-15mm	RMC	1412/1732.4	1:1	0.283	0.08	23.44	24.50	1.276	0.361	No	
Back side-15mm	RMC	1412/1732.4	1:1	0.423	-0.17	23.44	24.50	1.276	0.540	No	
Left side-10mm	RMC	1412/1732.4	1:1	0.051	-0.02	23.44	24.50	1.276	0.065	No	
Right side-10mm	RMC	1412/1732.4	1:1	0.105	0.00	23.44	24.50	1.276	0.134	No	
Bottom side - 15mm	RMC	1412/1732.4	1:1	0.646	0.13	23.44	24.50	1.276	0.825	No	
Bottom side - 15mm	RMC	1312/1712.4	1:1	0.574	0.13	23.42	24.50	1.282	0.736	No	
Bottom side - 15mm	RMC	1513/1752.6	1:1	0.697	-0.01	23.55	24.50	1.245	0.867	No	

LTEB2(Ant1)

LIEBZ(Ant1)			•								
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g		Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Product Specific 10-g SAR SAR Exclusion
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_0	18700/1860	1:1	0.258	0.06	19.21	23.50	2.685	0.693	No
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.428	0.15	19.21	23.50	2.685	1.149	No
Bottom side	20	QPSK 1RB_0	18700/1860	1:1	0.700	-0.19	19.21	23.50	2.685	1.880	Yes
Bottom side	20	QPSK 1RB_0	18900/1880	1:1	0.686	-0.08	19.14	23.50	2.729	1.872	Yes
Bottom side	20	QPSK 1RB_0	19100/1900	1:1	0.673	-0.17	19.15	23.50	2.723	1.832	Yes
Hotspot Test data(Separate 10mm 50%RB) Sensor on											
Front side	20	QPSK 50RB_50	18700/1860	1:1	0.252	-0.14	19.30	23.50	2.630	0.663	No
Back side	20	QPSK 50RB_50	18700/1860	1:1	0.412	0.07	19.30	23.50	2.630	1.084	No
Bottom side	20	QPSK 50RB_50	18700/1860	1:1	0.685	-0.09	19.30	23.50	2.630	1.802	Yes
Bottom side	20	QPSK 50RB_50	18900/1880	1:1	0.704	0.14	19.20	23.50	2.692	1.895	Yes
Bottom side	20	QPSK 50RB_50	19100/1900	1:1	0.695	-0.12	19.29	23.50	2.636	1.832	Yes
	Hotspot Test data(Separate 10mm 100%RB) Sensor on										
Bottom side	20	QPSK 100RB_0	18700/1860	1:1	0.650	-0.18	19.19	23.50	2.698	1.754	Yes
			Hot	spot Test	data 1RB	Sensor off					
Front side-15mm	20	QPSK 1RB_0	18700/1860	1:1	0.296	0.12	22.32	23.50	1.312	0.388	No
Back side-15mm	20	QPSK 1RB_0	18700/1860	1:1	0.480	-0.05	22.32	23.50	1.312	0.630	No
Left side-10mm	20	QPSK 1RB_0	18700/1860	1:1	0.071	0.08	22.32	23.50	1.312	0.093	No
Right side-10mm	20	QPSK 1RB_0	18700/1860	1:1	0.139	0.00	22.32	23.50	1.312	0.182	No
Bottom side - 15mm	20	QPSK 1RB_0	18700/1860	1:1	0.773	0.050	22.32	23.50	1.312	1.014	No
Bottom side - 15mm	20	QPSK 1RB_0	18900/1880	1:1	0.812	0.07	23.31	23.50	1.045	0.848	No
Bottom side - 15mm	20	QPSK 1RB_0	19100/1900	1:1	0.813	0.11	23.31	23.50	1.045	0.849	No
Hotspot Test data 50%RB Sensor off											
Front side-15mm	20	QPSK 50RB_50	18700/1860	1:1	0.284	0.19	22.51	23.50	1.256	0.357	No
Back side-15mm	20	QPSK 50RB_50	18700/1860	1:1	0.459	-0.19	22.51	23.50	1.256	0.577	No



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Report No.: AR/2021/1000808

Page : 35 of 132

Left side-10mm	20	QPSK 50RB_50	18700/1860	1:1	0.065	-0.04	22.51	23.50	1.256	0.082	No
Right side-10mm	20	QPSK 50RB_50	18700/1860	1:1	0.144	0.04	22.51	23.50	1.256	0.181	No
Bottom side - 15mm	20	QPSK 50RB_50	18700/1860	1:1	0.750	-0.04	22.51	23.50	1.256	0.942	No
Bottom side - 15mm	20	QPSK 50RB_50	18900/1880	1:1	0.727	-0.05	22.14	23.50	1.368	0.994	No
Bottom side - 15mm	20	QPSK 50RB_50	19100/1900	1:1	0.743	-0.11	22.31	23.50	1.315	0.977	No
			Hotsp	ot Test da	ta 100%RI	B Sensor c	off				
Back side-15mm	20	QPSK 100RB_0	18700/1860	1:1	0.506	-0.01	22.24	23.50	1.337	0.676	No
Bottom side - 15mm	20	QPSK 100RB_0	18700/1860	1:1	0.741	0.02	22.24	23.50	1.337	0.990	No
Bottom side - 15mm	20	QPSK 100RB_0	18900/1880	1:1	0.747	0.18	22.52	23.50	1.253	0.936	No
Bottom side - 15mm	20	QPSK 100RB_0	19100/1900	1:1	0.738	0.14	22.62	23.50	1.225	0.904	No



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Report No.: AR/2021/1000808

Page : 36 of 132

LTEB4(Ant1)

Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	Powe r Drift (dB)	Conducte d Power (dBm)	Tune up Limit (dBm	Scale d factor	Scale d SAR (W/kg	Product Specific 10-g SAR SAR Exclusio n
Hotspot Test data(Separate 10mm 1RB) Sensor on											
Front side	20	QPSK 1RB_0	20175/1732. 5	1:1	0.210	-0.04	19.29	25.00	3.724	0.782	No
Back side	20	QPSK 1RB_0	20175/1732. 5	1:1	0.329	-0.08	19.29	25.00	3.724	1.225	Yes
Bottom side	20	QPSK 1RB_0	20175/1732. 5	1:1	0.511	0.03	19.29	25.00	3.724	1.903	Yes
			Hotspot Test da	ıta(Sepaı	rate 10mn	n 50%RB)	Sensor on				
Front side	20	QPSK 50RB_0	20175/1732. 5	1:1	0.206	-0.12	19.35	24.00	2.917	0.601	No
Back side	20	QPSK 50RB_0	20175/1732. 5	1:1	0.324	-0.08	19.35	24.00	2.917	0.945	No
Bottom side	20	QPSK 50RB_0	20175/1732. 5	1:1	0.503	0.17	19.35	24.00	2.917	1.467	Yes
Hotspot Test data 1RB Sensor off											
Front side- 15mm	20	QPSK 1RB_50	20175/1732. 5	1:1	0.410	0.05	24.49	25.00	1.125	0.461	No
Back side- 15mm	20	QPSK 1RB_50	20175/1732. 5	1:1	0.643	-0.01	24.49	25.00	1.125	0.723	No
Left side-10mm	20	QPSK 1RB_50	20175/1732. 5	1:1	0.053	0.16	24.49	25.00	1.125	0.060	No
Right side- 10mm	20	QPSK 1RB_50	20175/1732. 5	1:1	0.110	-0.01	24.49	25.00	1.125	0.124	No
Bottom side - 15mm	20	QPSK 1RB_50	20175/1732. 5	1:1	0.713	-0.11	24.49	25.00	1.125	0.802	No
Bottom side - 15mm	20	QPSK 1RB_50	20300/1745	1:1	0.712	-0.05	24.28	25.00	1.180	0.840	No
Bottom side - 15mm	20	QPSK 1RB_50	20050/1720	1:1	0.671	-0.08	24.14	25.00	1.219	0.818	No
			Hotspo	t Test da	ata 50%RI	3 Sensor	off				
Front side- 15mm	20	QPSK 50RB_25	20175/1732. 5	1:1	0.317	0.01	23.26	24.00	1.213	0.385	No
Back side- 15mm	20	QPSK 50RB_25	20175/1732. 5	1:1	0.494	0.09	23.26	24.00	1.213	0.599	No
Left side-10mm	20	QPSK 50RB_25	20175/1732. 5	1:1	0.046	0.09	23.26	24.00	1.213	0.056	No
Right side- 10mm	20	QPSK 50RB_25	20175/1732. 5	1:1	0.090	0.12	23.26	24.00	1.213	0.109	No
Bottom side - 15mm	20	QPSK 50RB_25	20175/1732. 5	1:1	0.551	-0.13	23.26	24.00	1.213	0.669	No



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Report No.: AR/2021/1000808

Page : 37 of 132

LTEB66(Ant1)

LIEBOO(AIIII											Product
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycl e	SAR (W/kg) 1-g	Powe r Drift (dB)	Conducte d Power (dBm)	Tune up Limit (dBm)	Scale d factor	Scale d SAR (W/kg)	Specific 10-g SAR SAR Exclusio n
			Hotspot Test	data(Sep	arate 10n	nm 1RB) \$	Sensor on				
Front side	20	QPSK 1RB_0	132322/174 5	1:1	0.257	-0.06	20.61	25.00	2.748	0.706	No
Back side	20	QPSK 1RB_0	132322/174 5	1:1	0.414	0.15	20.61	25.00	2.748	1.138	No
Bottom side	20	QPSK 1RB_0	132322/174 5	1:1	0.527	-0.11	20.61	25.00	2.748	1.448	Yes
			Hotspot Test da	ata(Sepa	rate 10mr	n 50%RB) Sensor on				
Front side	20	QPSK 50RB_25	132322/174 5	1:1	0.269	-0.13	20.63	24.00	2.173	0.584	No
Back side	20	QPSK 50RB_25	132322/174 5	1:1	0.430	-0.07	20.63	24.00	2.173	0.934	No
Bottom side	20	QPSK 50RB_25	132322/174 5	1:1	0.543	0.07	20.63	24.00	2.173	1.180	No
			Hots	pot Test	data 1RB	Sensor of	ff				
Front side- 15mm	20	QPSK 1RB_0	132322/174 5	1:1	0.362	0.09	24.36	25.00	1.159	0.419	No
Back side- 15mm	20	QPSK 1RB_0	132322/174 5	1:1	0.473	0.10	24.36	25.00	1.159	0.548	No
Left side-10mm	20	QPSK 1RB_0	132322/174 5	1:1	0.066	-0.10	24.36	25.00	1.159	0.076	No
Right side- 10mm	20	QPSK 1RB_0	132322/174 5	1:1	0.131	-0.06	24.36	25.00	1.159	0.152	No
Bottom side - 15mm	20	QPSK 1RB_0	132572/177 0	1:1	0.550	-0.15	24.36	25.00	1.159	0.637	No
			Hotspo	ot Test da	ata 50%R	B Sensor	off				
Front side- 15mm	20	QPSK 50RB_25	132072/172 0	1:1	0.380	-0.06	23.46	24.00	1.132	0.430	No
Back side- 15mm	20	QPSK 50RB_25	132072/172 0	1:1	0.463	0.08	23.46	24.00	1.132	0.524	No
Left side-10mm	20	QPSK 50RB_25	132322/174 5	1:1	0.055	0.19	23.46	24.00	1.132	0.062	No
Right side- 10mm	20	QPSK 50RB_25	132322/174 5	1:1	0.109	-0.03	23.46	24.00	1.132	0.123	No
Bottom side - 15mm	20	QPSK 50RB_25	132322/174 5	1:1	0.530	-0.18	23.46	24.00	1.132	0.600	No



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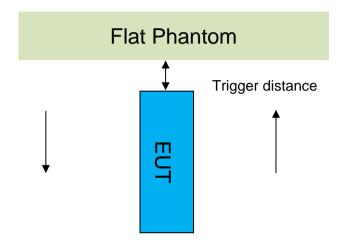
Report No.: AR/2021/1000808

Page : 38 of 132

5.1 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

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



	Proximity Sensor Triggering D	Distance(mm)	
Antenna	Ant1	Ant2	Ant4
Band	WB2/4/5, LTE B2/4/5/7/66/38/41, n7/38/41/66	LTE B7(EN-DC), n77/78	WB2/4/5, LTE B2/4/5/7/12/17, n7/38/41
Position	Front/Back/Bottom	Тор	Front/Back/Top
Minimum	16	16	16
Required SAR Test	15	15	15

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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Page : 39 of 132

DUT Moving Toward(Trigger)the Phantom





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Page : 40 of 132





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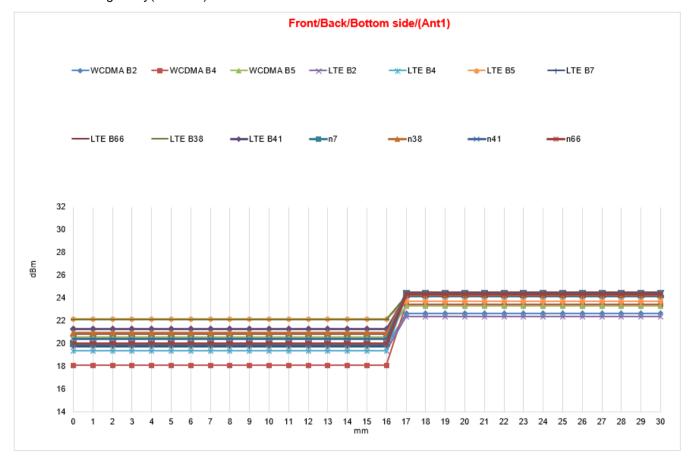
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Page : 42 of 132

DUT Moving Away(Release) from the Phantom





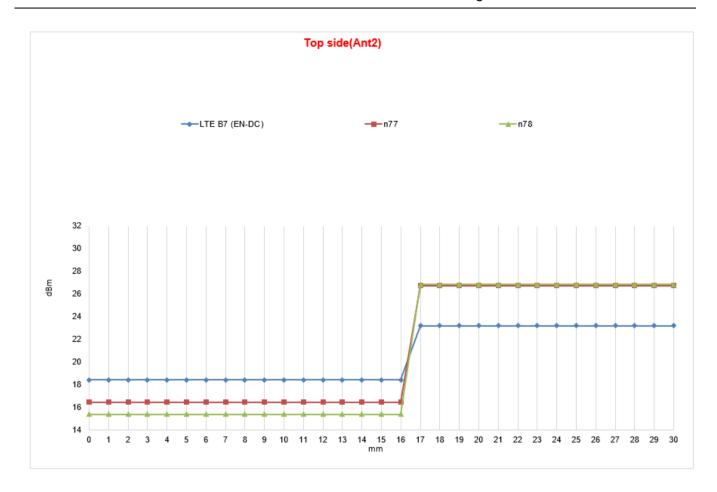
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Page : 43 of 132





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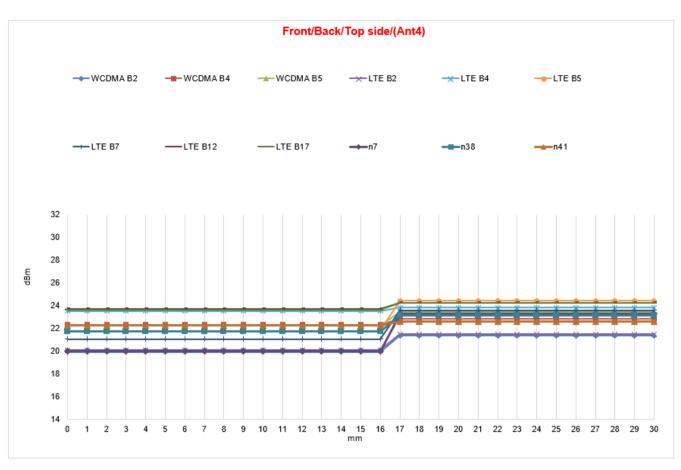
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Report No.: AR/2021/1000808

Page : 44 of 132



Proximity sensor coverage

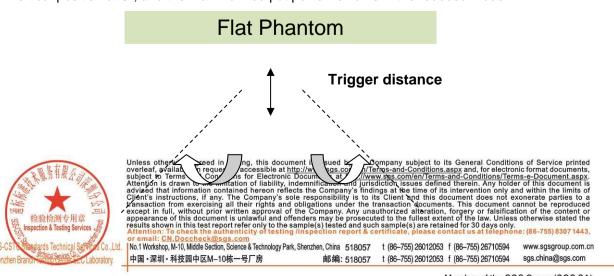
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing,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





Report No.: AR/2021/1000808

Page : 45 of 132



+45°

-45°

	Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side												
Band	Minimum trigger	Minimum trigger distance at which				Pow	er Rec	luction	Statu	S			
(MHz)	distance Per KDB616217§6.2	power reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant1	Bottom side:16mm	Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant2	Top side:16mm	Top side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant4	Top side:16mm	Top side:16mm									·		



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

Report No.: AR/2021/1000808

Page : 46 of 132

SAR System Verification Procedure

Tissue Simulate Liquid 6.1

6.1.1 Recipes for Tissue Simulate Liquid

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

	<u> </u>		<i>7</i> 1							
Ingredients		Frequency (MHz)								
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700					
Water	38.56	40.30	55.24	55.00	54.92					
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23					
Sucrose	56.32	57.90	0	0	0					
HEC	0.98	0.24	0	0	0					
Bactericide	0.19	0.18	0	0	0					
Tween	0	0	44.45	44.80	44.85					

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

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

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

Recipe of Tissue Simulate Liquid Table 3:



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Report No.: AR/2021/1000808

Page : 47 of 132

6.1.2 Measurement for Tissue Simulate Liquid

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

	Measured	Target Tiss	ue (±5%)	Measure	d Tissue	Liquid	
Tissue Type	Frequency (MHz)	εr	σ(S/m)	εr	σ(S/m)	Temp.(°C)	Measured Date
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	41.476	0.887	22.1	2021/3/17
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.495	0.884	22.1	2021/3/18
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.753	0.938	22.1	2021/3/20
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.881	0.938	22.1	2021/3/6
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.159	1.332	22.2	2021/2/19
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.271	1.309	22.2	2021/2/24
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	38.834	1.329	22.4	2021/2/27
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.571	1.407	22.3	2021/2/17
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.173	1.376	22.1	2021/2/21
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	40.179	1.803	21.8	2021/3/16
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.475	1.909	21.9	2021/3/5
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.388	2.000	21.9	2021/3/10
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	38.835	1.934	21.9	2021/3/14
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.952	1.968	21.9	2021/3/19
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	40.535	1.983	21.9	2021/3/21
3700 Head	3700	37.7 (35.82~39.59)	3.12 (2.96~3.28)	37.205	3.070	21.9	2021/3/27
3900 Head	3900	37.5 (35.63~39.38)	3.32 (3.15~3.49)	36.495	3.283	22.1	2021/3/28
5250Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.011	4.767	22.2	2021/3/25
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	35.059	5.157	22.2	2021/3/2
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.695	5.329	22.2	2021/3/2

Table 4: Measurement result of Tissue electric parameters



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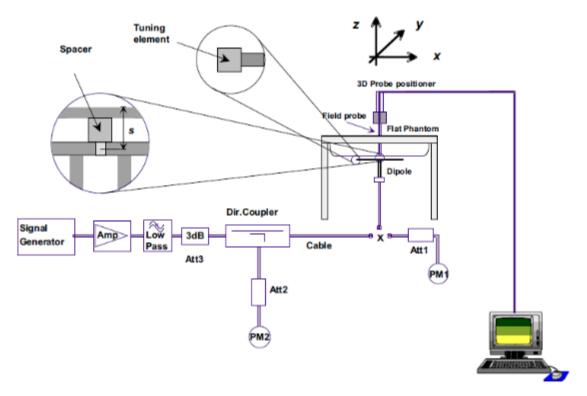


Report No.: AR/2021/1000808

Page : 48 of 132

6.2 **SAR System Check**

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



F-12. the microwave circuit arrangement used for SAR system check



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Report No.: AR/2021/1000808

Page : 49 of 132

6.2.1 Justification for Extended SAR Dipole Calibrations

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



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Report No.: AR/2021/1000808

Page : 50 of 132

6.2.2 Summary System Check Result(s)

Measured SAR					Measured	Measured	Target SAR	Target SAR		
Validation Kit ZSOMW ZSOMW Commalized Commalize									Liquid	
Part	Validat	tion Kit				_	,	,	Temp.	
D750V3	Valida		250mW	250mW		,				Date
D750V3			1g (W/kg)	10g (W/kg)					()	
D750V3 Head 2.14 1.37 8.56 5.48 8.39 7.55-9.23) 5.63 5.63 6.29 5.63 6.29 6.20	D750\/0	l la a al							00.4	0004/0/47
Display Flead Canal Ca	D/50V3	Head	2.17	1.42	8.68	5.68)		22.1	2021/3/17
D835V2	D750V3	Head	2.14	1.37	8.56	5.48			22.1	2021/3/18
D835V2 Head 2.41 1.62 9.64 6.48 (6.68-10.60) (5.66-6.92) 22.1 2021/3/20 D835V2 Head 2.5 1.63 10 6.52 9.64 6.29 22.1 2021/3/6 D1750V2 Head 9.36 5 37.44 20 36.3 19.2 22.2 2021/2/19 D1750V2 Head 8.47 4.55 33.88 18.2 36.3 19.2 22.2 2021/2/2 D1750V2 Head 9.24 4.91 36.96 19.64 36.3 19.2 22.4 2021/2/2 D1900V2 Head 9.96 5.24 39.84 20.96 39.3 20.2 22.3 2021/2/2 D1900V2 Head 9.6 4.99 38.4 19.96 39.3 20.2 22.1 2021/2/2 D2450V2 Head 12.60 5.82 50.40 23.28 (67.15-7.09) 21.42-26.18) 21.8 2021/3/5 D2600V2 <				-						
D835V2	D835V2	Head	2.41	1.62	9.64	6.48			22.1	2021/3/20
Design	D005)/0	lla	0.5	4.00	40	0.50			00.4	0004/0/0
D1750V2 Head 9.36 5 37.44 20 (32.67-39.93) (17.28-21.12) 22.2 2021/2/9	D835V2	Head	2.5	1.63	10	6.52	(8.68~10.60)	(5.66~6.92)	22.1	2021/3/6
D1750V2 Head 8.47 4.55 33.88 18.2 36.3 (32.67-39.93) (17.28-21.12) 22.2 2021/2/24	D1750V2	Head	9.36	5	37.44	20			22.2	2021/2/19
D1750V2 Head 9.24 4.91 36.96 19.64 32.67-39.93 17.28-21.12 22.4 2021/2/2 D1750V2 Head 9.96 5.24 39.84 20.96 39.3 20.2 22.3 2021/2/2 D1900V2 Head 9.6 4.99 38.4 19.96 35.37-43.23 20.2 22.2 2021/2/2 D2450V2 Head 12.60 5.82 50.40 23.28 51.9 23.8 21.8 2021/3/16 D2600V2 Head 13.50 6.04 54.00 24.16 66.8 24.9 22.4 2021/3/5 D2600V2 Head 14.20 6.35 56.80 25.40 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 13.70 6.15 54.80 24.60 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 13.90 6.24 55.60 24.96 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 56.00 25.20 (51.12-62.48) (22.41-27.39) 21.9 2021/3/16 D2600V2 Head 14.00 6.30 63.40 23.10 (61.02-74.58) (22.41-27.39) 21.9 2021/3/16 D	21.0012	11000	0.00		0 7					2021,2,10
D1750V2	D1750V2	Head	8.47	4.55	33.88	18.2			22.2	2021/2/24
D1760V2										
Display Disp	D1750V2	Head	9.24	4.91	36.96	19.64		-	22.4	2021/2/27
D1900V2 Head 9.6 4.99 38.4 19.96 39.3 39.3 20.2 22.1 2021/3/15	D4000\/0	Llood	0.06	F 24	20.04	20.06			22.2	2024/2/47
Decolumnt Deco	D1900V2	пеаа	9.96	5.24	39.84	20.96			22.3	2021/2/17
D2450V2 Head 12.60 5.82 50.40 23.28 51.9 23.8 24.9 2021/3/16	D1900V2	Head	9.6	4.99	38.4	19.96			22.1	2021/2/21
D2490V2										
D2600V2 Head 13.50 6.04 54.00 24.16 56.8 (51.12-62.48) (22.41-27.39) 21.9 2021/3/5	D2450V2	Head	12.60	5.82	50.40	23.28			21.8	2021/3/16
D2600V2 Head 14.20 6.35 56.80 25.40 (51.12-62.48) (22.41-27.39) 21.9 2021/3/10	D00531/2		10.70	0.0.1	54.55	04.15			04.5	000//0/-
D2600V2 Head 13.70 6.15 54.80 24.60 56.8 24.9 (22.41~27.39) 21.9 2021/3/14	D2600V2	Head	13.50	6.04	54.00	24.16			21.9	2021/3/5
D2600V2 Head 13.70 6.15 54.80 24.60 56.8 24.9 (22.41~27.39) 21.9 2021/3/14	D2600\/2	Head	14 20	6.35	56.80	25.40		-	21 9	2021/3/10
D2600V2	D2000 V Z	ricau	17.20	0.00	50.00	20.40	, ,	,	21.0	2021/3/10
D2600V2 Head 13.90 6.24 55.60 24.96 (51.12-62.48) (22.41-27.39) 21.9 2021/3/19	D2600V2	Head	13.70	6.15	54.80	24.60		_	21.9	2021/3/14
D2600V2			-						_	
D2600V2 Head 14.00 6.30 56.00 25.20 56.8 24.9 (22.41-27.39) 21.9 2021/3/21	D2600V2	Head	13.90	6.24	55.60	24.96		-	21.9	2021/3/19
D2600V2 Head 14.00 6.30 56.00 25.20 (51.12~62.48) (22.41~27.39) 21.9 2021/3/21	D									
Validative Kit Measured SAR 100mW Measured SAR 100mW Measured SAR (normalized to 1 1W) Target SAR (normalized to 1 1W) Target SAR (normalized to 1 1W) Liquid Temp. (°C) Measured Date D3700V2 Head(3.7 GHz) 6.34 2.31 63.40 23.10 67.8 (61.02-74.58) 24.7 (22.23-27.17) 21.9 2021/3/27 D3900V2 Head(3.9 GHz) 7.02 2.52 70.20 25.20 71.1 (63.99-78.21) 22.1 (22.14-27.06) 22.3 2021/3/28 D5GHzV2 Head(5.25 GHz) 8.04 2.32 80.4 23.2 75.2 (67.68-82.72) (19.35-23.65) 22.2 2021/3/25 Head(5.6 GHz) 7.89 2.25 79.1 22.5 78.7 22.3 (20.43-24.97) 22.2 2021/3/25	D2600V2	Head	14.00	6.30	56.00	25.20			21.9	2021/3/21
Validation Kit SAR 100mW SAR 100mW SAR (normalized to 1W) SAR (normalized to 1W) (normalized to 1W) (mormalized to 1W) 1W) (±10%) 1W) (±10%) Exquite Temp. (°C) Measured Date D3700V2 Head(3.7 GHz) 6.34 2.31 63.40 23.10 67.8 (61.02~74.58) 24.7 (22.23~27.17) 21.9 2021/3/27 D3900V2 Head(3.9 GHz) 7.02 2.52 70.20 25.20 71.1 (63.99~78.21) 22.3 2021/3/28 B Head(5.25 GHz) 8.04 2.32 80.4 23.2 75.2 (67.68~82.72) 21.5 (19.35~23.65) 22.2 2021/3/25 D5GHzV2 Head(5.6 GHz) 7.89 2.25 78.9 22.5 80 22.7 (20.43~24.97) 22.2 2021/3/2 Head(5.75 GHz) 7.91 2.25 79.1 22.5 78.7 (70.83~86.57) 22.3 (20.07~24.53) 22.2 2021/3/2			Measured	Measured			Target SAR	Target SAR		
Validation Kit 100mW 100mW (normalized to 1W) 1W 1W) 1W 2 2 2 2 2 2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>`</td><td>,</td><td></td><td>Measured</td></t<>							`	,		Measured
D3700V2 Head(3.7 GHz) G1/4 G1	Valida	tion Kit						1W)		
D3700V2 Head(3.7 GHz) 6.34 2.31 63.40 23.10 67.8 (61.02~74.58) 24.7 (22.23~27.17) 21.9 2021/3/27 D3900V2 Head(3.9 GHz) 7.02 2.52 70.20 25.20 71.1 (63.99~78.21) 24.6 (22.14~27.06) 22.3 2021/3/28 B Head(5.25 GHz) 8.04 2.32 80.4 23.2 75.2 (67.68~82.72) (19.35~23.65) 22.2 2021/3/25 B Head(5.6 GHz) 7.89 2.25 78.9 22.5 80 (20.43~24.97) 22.2 2021/3/25 Head(5.75 GHz) 7.91 2.25 79.1 22.5 78.7 (70.83~86.57) 22.3 (20.07~24.53) 22.2 2021/3/2									(°C)	Date
D3700V2 GHz) 6.34 2.31 63.40 23.10 (61.02~74.58) (22.23~27.17) 21.9 2021/3/27 D3900V2 Head(3.9 GHz) 7.02 2.52 70.20 25.20 71.1 24.6 (63.99~78.21) 22.1 22.1 2021/3/28 B Head(5.25 GHz) 8.04 2.32 80.4 23.2 (67.68~82.72) 75.2 (19.35~23.65) 22.2 2021/3/25 B Head(5.6 GHz) 7.89 2.25 78.9 22.5 (72~88) (20.43~24.97) 22.2 2021/3/2 Head(5.75 GHz) 7.91 2.25 79.1 22.5 (70.83~86.57) 78.7 (22.3 (20.07~24.53) 22.2 2021/3/2		111/0 7	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)				
D3900V2 Head(3.9 GHz) 7.02 2.52 70.20 25.20 71.1 (63.99~78.21) 24.6 (22.14~27.06) 22.3 2021/3/28 B Mead(5.25 GHz) 8.04 2.32 80.4 23.2 75.2 (67.68~82.72) 21.5 (19.35~23.65) 22.2 2021/3/25 B Mead(5.6 GHz) 7.89 2.25 78.9 22.5 80 (22.7 (72~88) 22.7 (20.43~24.97) 22.2 2021/3/2 B Mead(5.75 GHz) 7.91 2.25 79.1 22.5 78.7 (70.83~86.57) 22.3 (20.07~24.53) 22.2 2021/3/2	D3700V2	`	6.34	2.31	63.40	23.10			21.9	2021/3/27
D3900V2 GHz) 7.02 2.52 70.20 25.20 (63.99~78.21) (22.14~27.06) 22.3 2021/3/28 Head(5.25 GHz) 8.04 2.32 80.4 23.2 75.2 21.5 (19.35~23.65) 22.2 2021/3/25 Head(5.6 GHz) 7.89 2.25 78.9 22.5 80 22.7 (20.43~24.97) 22.2 2021/3/2 Head(5.75 GHz) 7.91 2.25 79.1 22.5 78.7 22.3 (20.07~24.53) 22.2 2021/3/2										
D5GHzV2 Head(5.25 GHz) 8.04 2.32 80.4 23.2 75.2 (67.68~82.72) 21.5 (19.35~23.65) 22.2 2021/3/25 Head(5.6 GHz) 7.89 2.25 78.9 22.5 80 (72~88) 22.7 (20.43~24.97) 22.2 2021/3/2 Head(5.75 GHz) 7.91 2.25 79.1 22.5 78.7 (70.83~86.57) 22.3 (20.07~24.53) 22.2 2021/3/2	D3900V2	`	7.02	2.52	70.20	25.20			22.3	2021/3/28
D5GHzV2		,	0.04	0.00	00.4	00.0		,	00.0	0004/0/05
D5GHzV2 GHz) 7.89 2.25 78.9 22.5 (72~88) (20.43~24.97) 22.2 2021/3/2 Head(5.75 GHz) 7.91 2.25 79.1 22.5 78.7 (70.83~86.57) 22.3 (20.07~24.53) 22.2 2021/3/2		,	8.04	2.32	80.4	23.2			22.2	2021/3/25
Head(5.75 GHz) 7.91 2.25 79.1 22.5 79.1 22.5 78.7 (70.83~86.57) (20.07~24.53) 22.2 2021/3/2	D5GHz\/2	Head(5.6	7.80	2.25	78 Q	22.5	80		22.2	2021/3/2
GHz) 7.91 2.25 79.1 22.5 (70.83~86.57) (20.07~24.53) 22.2 2021/3/2	שטטחבעב		7.09	۷.۷۵	10.9	22.5			22.2	2021/3/2
GHZ) (70.83~86.57) (20.07~24.53)			7.91	2.25	79.1	22.5			22.2	2021/3/2
							(70.83~86.57)	(20.07~24.53)		

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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Report No.: AR/2021/1000808

: 51 of 132 Page

Test Configuration 7

7.1 **3G SAR Test Reduction Procedure**

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test quidance, 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.

Operation Configurations 7.2

7.2.1 GSM Test Configuration

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

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

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

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



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Report No.: AR/2021/1000808

Page : 52 of 132

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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

4) . HSDPA / HSUPA / DC-HSDPA

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

HSDPA a)

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(Bc, 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.: AR/2021/1000808

Page : 53 of 132

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

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

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

7 (Ahs=24/15) with βhs=24/15*βc.

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

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

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

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



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Report No.: AR/2021/1000808

Page : 54 of 132

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.: AR/2021/1000808

: 55 of 132 Page

Sub -test₽	βοσ	βd₽	βd (SF)	β₀∕β⋴ℴ	β _{hs} (1)↔	β _{ec+} 3	$\beta_{\text{ed}} \wp$	β _e « « (SF)+	βed↔ (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↔	1039/225	4 0	1₽	1.0₽	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	10	3.0₽	2.0₽	12₽	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	150	92₽
4€	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₄	2.0₽	17₽	71∂
5₽	15/15(4)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4€	1₽	1.0₽	0.0₽	210	81₽

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference-

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ μ

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

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

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

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	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.(TS25.306-7.3.0).

Table 9: HSUPA UE category



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Report No.: AR/2021/1000808

Page : 56 of 132

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.: AR/2021/1000808

Page : 57 of 132

Inf. Bit Payload	120			
CRC Addition	120	24 CRC		
Code Block Segmentation	144			
Turbo-Encoding (R=1/3)			432	12 Tail Bits
1st Rate Matching			432	
RV Selection		960		
Physical Channel Segmentation	960			

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₽	βc₽	$eta_{\mathbf{d}^\wp}$	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{\omega}}$	β _{hs} (1)	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)₽	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

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

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

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

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



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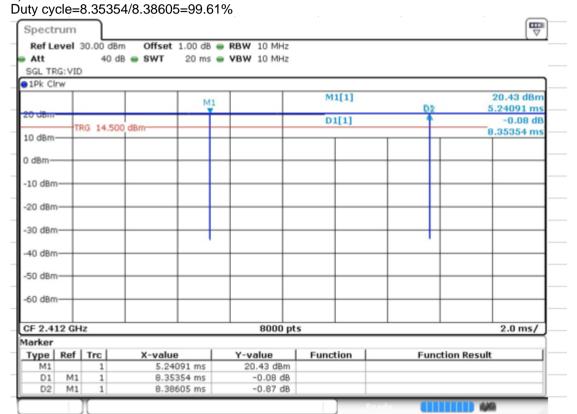
: 58 of 132 Page

7.2.3 WiFi Test Configuration

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

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:





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Report No.: AR/2021/1000808

Page : 59 of 132

2) Wi-Fi 5GHz 802.11a: Duty cycle=1.38017/1.41893=97.27% **B** Spectrum Ref Level 30.00 dBm Offset 2.00 dB @ RBW 10 MHz 40 dB . SWT Att 10 ms . VBW 10 MHz SGL TRG: VID ●1Pk Clrw 17.52 dBm 1.38017 ms 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm CF 5.18 GHz 8000 pts 1.0 ms/ Marker Ref | Trc Function **Function Result** Type X-value Y-value 17.52 dBm -906.11 µs M1 D1 1.38017 ms 5.40 dB M1 М1 0.03 dB 1.41893 ms D2



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Report No.: AR/2021/1000808

Page : 60 of 132

7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3 Initial Test Configuration Procedures

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

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

7.2.3.4 Subsequent Test Configuration Procedures

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

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



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Report No.: AR/2021/1000808

Page : 61 of 132

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.: AR/2021/1000808

: 62 of 132 Page

7.2.3.5 2.4 GHz WiFi SAR Procedures

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

802.11b DSSS SAR Test Requirements

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

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

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

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

SAR Test Requirements for OFDM configurations

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



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Page : 63 of 132

7.2.3.6 5 GHz WiFi SAR Procedures

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

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

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

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

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

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



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Report No.: AR/2021/1000808

Page : 64 of 132

OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

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

SAR Test Requirements for OFDM configurations

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



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Report No.: AR/2021/1000808

: 65 of 132 Page

7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8821C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

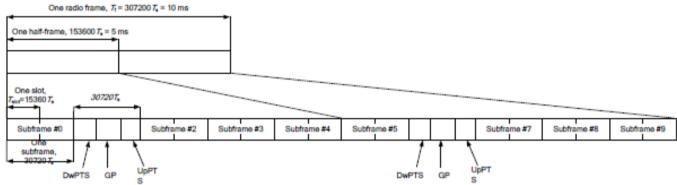
TDD LTE test consideration

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

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

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

Frame structure type 2:





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Report No.: AR/2021/1000808

Page : 66 of 132

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

Special	Norn	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
subframe	DwPTS	Up	PTS	DwPTS	Up	PTS		
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts		2560.Ts	20480.Ts	2192.Ts	2560.Ts		
2	21952.Ts	2192.Ts		23040.Ts		2500.15		
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4384.Ts	5120.Ts		
6	19760.Ts			23040.Ts	4304.15	5120.15		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

Uplink-downlink configurations.

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

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

Uplink- Downlink Configurat	Downlink-to- Uplink Switch- point Periodicity		Subframe Number								Calculated Duty Cycle (%)	
ion	pointrollogiony	0	1	2	3	4	5	6	7	8	9	Gy010 (70)
0	5 ms	D	S	U	U	J	D	S	J	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	J	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33



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Report No.: AR/2021/1000808

Page : 67 of 132

A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channe	MPR (dB)					
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	>4	> 8	> 12	> 16	> 18	. ≤1
16 QAM	≤5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤2
64 QAM	≤5	≤ 4	≤8	≤ 12	≤ 16	≤ 18	≤2
64 QAM	> 5	>4	> 8	> 12	> 16	> 18	≤ 3
256 QAM		•		≥ 1	-		≤ 5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

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

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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Report No.: AR/2021/1000808

: 68 of 132 Page

7.2.5 NR Band Test Configuration

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

EN-DC							
LTE B7 (Ant2)	n66(Ant1)						

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

_	Band	,	n7	n38	n41	n66	n77	n78
		PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
	DFT-s-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes
Modulation		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDIVI	64QAM	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes
	Duty Cycle			100%	100%	100%	100%	100%

Band	SCS							Bandwic	dth					
Danu	303	5Mhz	10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
n7	15KHZ	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
117	30KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	30KHZ	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1141	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n66	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1100	30KHZ	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n77	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n70	15KHZ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n78	30KHZ	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes



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Report No.: AR/2021/1000808

Page : 69 of 132

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



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Report No.: AR/2021/1000808

: 70 of 132 Page

4. MPR

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

O.Z.Z dilaci Tabic O.Z							
Modul	lation		MPR (dB)				
Modul	lation	Edge RB allocations	Outer RB allocations	s Inner RB allocations			
	DI/O DDSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹			
	PI/2 BPSK	≤ 0.5 ²	≤ 0.5 ²	02			
DFT-s-OFDM	DFT-s-OFDM QPSK	≤	0				
	16 QAM	≤	≤ 1				
	64 QAM	≤ 2.5					
	256 QAM						
	QPSK	≤	3	≤ 1.5			
CP-OFDM	16 QAM	≤	3	≤ 2			
CF-OFDINI	64 QAM		≤ 3.5				
	256 QAM		≤ 6.5				

- NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.
- NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.
- 5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.
- 6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:
 - 1) For 5G NR NSA mode with the same UL EN DC combination but different DL EN DC combinations, eg: EN-DC configuration: UL DC 7A n5 (UL two bands) with DL DC 7C n5 (DL two bands)
- a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.
- b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be ≤ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.
- 7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative "max + max" multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative "max + max" multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.
- 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.
- 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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Page : 71 of 132

Test Result 8

8.1 Measurement of RF conducted Power

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

8.1.1 Conducted Power of GSM

Note:

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

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

8.1.2 Conducted Power of WCDMA

Note:

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

8.1.3 Conducted Power of LTE



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Report No.: AR/2021/1000808

: 72 of 132 Page

8.1.4 Conducted Power of Uplink & Downlink LTE CA

The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.

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

Conducted Power of uplink LTE CA 8.1.4.1

Note:

- 1) This device supports uplink carrier aggregation for LTE CA_7C, CA_38C with a maximum of two 20MHz component carriers.
- 2) According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 3) In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 4) Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.



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Report No.: AR/2021/1000808

: 73 of 132 Page

Conducted Power of Downlink LTE CA

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded. Power test equipment: Anritsu Radio Communication Analyzer MT8821C

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

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

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

require power measurements are highlighted in the table as below:

1 Band / 2CC	2 Band / 2CC
CA_38C	CA_5A-7A
CA_2C	CA_2A-5A
CA_7C	CA_2A-7A
CA_7A-7A	CA_4A-5A
	CA_4A-7A
	CA_2A-4A

Note:

The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.



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Report No.: AR/2021/1000808

Page : 74 of 132

8.1.5 Conducted Power of WIFI

Note:

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



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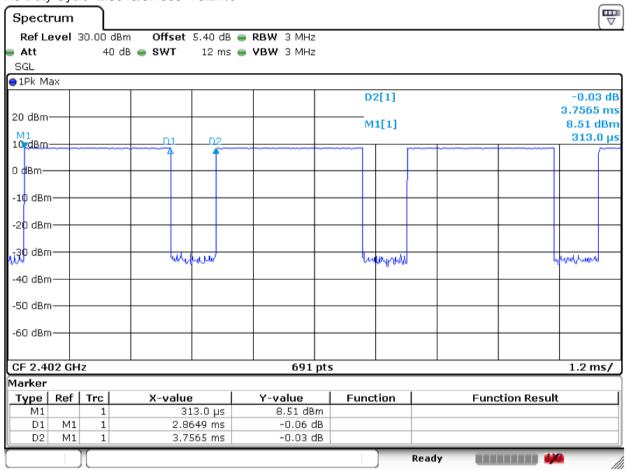


Report No.: AR/2021/1000808

Page : 75 of 132

8.1.6 Conducted Power of BT

BT DH5 Duty Cycle=2.8649/3.7565=76.27%



Note:

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



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Report No.: AR/2021/1000808

Page : 76 of 132

8.2 Stand-alone SAR test evaluation

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

Freq.	Frequency	Position		rage wer	Test Separation	Calculate	Exclusion	Exclusion
Band	(GHz)		dBm	mW	(mm)	Value	Threshold	(Y/N)
\A/: - :		Head	19	79.43	5	25.018	3	N
Wi-Fi 2.4G	2.472	Body-worn	19	79.43	15	8.339	3	Ν
2.40		Hotspot	19	79.43	10	12.509	3	Ν
		Head	16	39.81	5	19.258	3	Ν
Wi-Fi 5G	5.850	Body-worn	18	63.10	15	10.174	3	Ν
		Hotspot	18	63.10	10	15.261	3	N
		Head	10	10.00	5	3.150	3	Ν
Bluetooth	2.48	Body-worn	10	10.00	15	1.050	3	Υ
			10	10.00	10	1.575	3	Υ

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

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

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

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



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Report No.: AR/2021/1000808

: 77 of 132 Page

8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

WiFi 2.4G:

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

WiFi 5G:

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



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Report No.: AR/2021/1000808

Page : 78 of 132

8.3.1 SAR Result of GSM850

					AR Test Re	cora				
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Hear	d Test data	(ubiii)	(ubili)		(W/Kg)	
Left cheek	GSM	190/836.6	1:8.3	0.100	0.07	32.95	33.50	1.135	0.114	22.1
Left tilted	GSM	190/836.6	1:8.3	0.050	0.05	32.95	33.50	1.135	0.057	22.1
Right cheek	GSM	190/836.6	1:8.3	0.077	0.06	32.95	33.50	1.135	0.087	22.1
Right tilted	GSM	190/836.6	1:8.3	0.030	0.10	32.95	33.50	1.135	0.034	22.1
ragin anoa	COM	100/000.0		dy worn Test			00.00	1.100	0.001	
Front side	GSM	190/836.6	1:8.3	0.076	0.15	32.59	33.00	1.099	0.084	22.1
Back side	GSM	190/836.6	1:8.3	0.091	0.01	32.59	33.00	1.099	0.100	22.1
	•		Н	otspot Test da	ata(Separate	10mm)		•		
Front side	GPRS 4TS	190/836.6	1:2.075	0.061	0.10	27.15	29.00	1.531	0.093	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.082	0.03	27.15	29.00	1.531	0.126	22.1
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.079	0.04	27.15	29.00	1.531	0.121	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.071	-0.12	27.15	29.00	1.531	0.109	22.1
Right side	GPRS 4TS	190/836.6	1:2.075	0.061	0.09	27.15	29.00	1.531	0.093	22.1
				Ant4 T	est Record					
		Test		SAR (W/kg)	Power Drift	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	Test mode	Ch./Freq.	Duty Cycle	1-g	(dB)		Limit	factor	SAR	Temp
					` '	(dBm)	(dBm)	10.000	(W/kg)	
1 - 6 - 1 1	0014	400/000 0	100		Test data	00.00	00.00	4.070	0.040	00.4
Left cheek	GSM	190/836.6	1:8.3	0.572	0.12	32.68	33.00	1.076	0.616	22.1
Left tilted	GSM GSM	190/836.6 190/836.6	1:8.3 1:8.3	0.519 0.630	0.15 0.13	32.68 32.68	33.00 33.00	1.076 1.076	0.559 0.678	22.1 22.1
Right cheek Right tilted	GSM	251/848.8	1:8.3	0.654	0.13	32.68	33.00	1.076	0.676	22.1
rtigrit tilled	GOW	231/040.0		dy worn Test			33.00	1.070	0.704	22.1
Front side	GSM	190/836.6	1:8.3	0.132	0.04	32.68	33.00	1.076	0.142	22.1
Back side	GSM	190/836.6	1:8.3	0.221	-0.04	32.68	33.00	1.076	0.238	22.1
Back clac	COM	100,000.0		otspot Test da			00.00	1.070	0.200	
Front side	GPRS 4TS	190/836.6	1:2.075	0.158	0.04	27.47	29.00	1.422	0.225	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.189	-0.15	27.47	29.00	1.422	0.269	22.1
Top side	GPRS 4TS	190/836.6	1:2.075	0.181	0.02	27.47	29.00	1.422	0.257	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.166	0.02	27.47	29.00	1.422	0.236	22.1
Right side	GPRS 4TS	190/836.6	1:2.075	0.102	0.05	27.47	29.00	1.422	0.145	22.1
				Ant1 T	Test Record					
		-		est data at the						
Left cheek	GSM	190/836.6	1:8.3	0.098	0.03	32.95	33.50	1.135	0.111	22.1
				Test data at			,	,		
Back side	GSM	190/836.6	1:8.3	0.088	0.05	32.59	33.00	1.099	0.097	22.1
	T			est data at th				ı	1	1
Back side	GPRS 4TS	190/836.6	1:2.075	0.080	-0.04	27.15	29.00	1.531	0.122	22.1
			=		Test Record	5				
5. 1	1 0011			est data at the						
Right tilted	GSM	251/848.8	1:8.3	0.643	0.03	32.68	33.00	1.076	0.692	22.1
David and	0014	400/000		Test data at			,	4.070	0.000	00.1
Back side	GSM	190/836.6	1:8.3	0.216	0.06	32.68	33.00	1.076	0.233	22.1
Deels -1-1-	LODDO 4TO	400/000		Test data at th		1		4 400	0.057	00.4
Back side	GPRS 4TS		1:2.075	0.181	-0.15	27.47	29.00	1.422	0.257	22.1

Table 11: SAR of GSM850 for Head and Body



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Report No.: AR/2021/1000808

Page : 79 of 132

8.3.2 SAR Result of GSM1900

			GSM 1	1900 SAR 1	Test Recoi	rd				
			P	nt1 Test R	Record					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g		Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
l oft obook	CCM	664/4000	1.0.2	Head Test		20.62	20.50	1 005	0.015	22.3
Left cheek	GSM GSM	661/1880	1:8.3	0.012 0.003	0.09 -0.09	29.62 29.62	30.50	1.225 1.225	0.015	22.3
Left tilted	GSM	661/1880 661/1880	1:8.3	0.003	-0.09	29.62	30.50	1.225	0.004	22.3
Right cheek	GSM		1:8.3 1:8.3	0.056	-0.06	29.62	30.50 30.50		0.068 0.006	22.3
Right tilted	GSIVI	661/1880		Test data(30.30	1.225	0.006	22.3
Front side	GSM	661/1880	1:8.3	0.104	-0.09	25.04	25.50	1.112	0.116	22.1
Back side	GSM	661/1880	1:8.3	0.104	-0.09	25.04	25.50	1.112	0.110	22.1
Dack Side	GSIVI	001/1000		Test data(Se			25.50	1.112	0.201	22.1
Front side	GPRS 4TS	661/1880	1:2.075	0.113	-0.16	19.76	21.50	1.493	0.169	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.113	-0.15	19.76	21.50	1.493	0.169	22.1
Bottom side	GPRS 4TS	661/1880	1:2.075	0.169	-0.13	19.76	21.50	1.493	0.499	22.1
Left side	GPRS 4TS		1:2.075	0.019	0.14	19.76	21.50	1.493	0.499	22.3
Right side	GPRS 4TS	661/1880	1:2.075	0.019	0.14	19.76	21.50	1.493	0.028	22.3
Rigitt side	GFR3 413	001/1000		nt4 Test R		19.70	21.50	1.493	0.024	22.3
						Conducted	Tune up		Scaled	
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Dawar	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
				Head Test	data	, , ,			, · J/	
Left cheek	GSM	661/1880	1:8.3	0.244	-0.17	29.67	30.50	1.211	0.295	22.3
Left tilted	GSM	661/1880	1:8.3	0.302	0.01	29.67	30.50	1.211	0.366	22.3
Right cheek	GSM	661/1880	1:8.3	0.376	0.07	29.67	30.50	1.211	0.455	22.3
Right tilted	GSM	661/1880	1:8.3	0.497	-0.04	29.67	30.50	1.211	0.602	22.3
			Body worn	Test data(S	Separate 10	Omm)				
Front side	GSM	661/1880	1:8.3	0.083	-0.07	29.67	30.50	1.211	0.100	22.3
Back side	GSM	661/1880	1:8.3	0.189	-0.08	29.67	30.50	1.211	0.229	22.3
				Test data(Se	eparate 10r					
Front side	GPRS 4TS	661/1880	1:2.075	0.130	-0.01	25.18	26.50	1.355	0.176	22.3
Back side	GPRS 4TS	661/1880	1:2.075	0.237	0.05	25.18	26.50	1.355	0.321	22.3
Top side	GPRS 4TS		1:2.075	0.277	-0.08	25.18	26.50	1.355	0.375	22.3
Left side	GPRS 4TS	661/1880	1:2.075	0.026	0.12	25.18	26.50	1.355	0.035	22.1
Right side	GPRS 4TS	661/1880	1:2.075	0.022	0.11	25.18	26.50	1.355	0.030	22.1
				Ant1 Test R						
	1		1	at the wors					T	
Right cheek	GSM	661/1880	1:8.3	0.051	0.08	29.62	30.50	1.225	0.062	22.3
						ith Battery2#				
Back side	GSM	661/1880	1:8.3	0.177	0.10	25.04	25.50	1.112	0.197	22.1
Dottom side	GPRS 4TS		1:2.075	a at the wor	-0.05	n Battery∠# 19.76	24 50	1.493	0.481	22.1
Bottom side	GPR5 415	001/1000		Ant4 Test R		19.76	21.50	1.493	0.461	22.1
		Нез		at the wors		Battery2#				
Right tilted	GSM	661/1880	1:8.3	0.475	0.04	29.67	30.50	1.211	0.575	22.3
ragiit tiiteu	GOIVI					rith Battery2#		1.411	0.575	22.3
Back side	GSM	661/1880	1:8.3	0.180	0.09	29.67	30.50	1.211	0.218	22.3
Dack side	GOIVI			a at the wor			30.30	1.411	0.210	22.3
Top side	GPRS 4TS	661/1880	1:2.075	0.265	0.06	25.18	26.50	1.355	0.359	22.3
1 40 CAP	GPR3 413	001/1000	1.2.013	0.200	0.00	20.10	20.00	1.000	0.558	22.3

Table 12: SAR of GSM1900 for Head and Body.



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Report No.: AR/2021/1000808

Page : 80 of 132

8.3.3 SAR Result of WCDMA Band II

			WC	DMA Band I	I SAR Test	Record				
				Ant1 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 (W/kg)	Liquid Temp
			,		Test data			•		,
Left cheek	RMC	9400/1880	1:1	0.050	0.13	22.67	23.50	1.211	0.061	22.3
Left tilted	RMC	9400/1880	1:1	0.045	0.03	22.67	23.50	1.211	0.054	22.3
Right cheek	RMC	9400/1880	1:1	0.100	0.03	22.67	23.50	1.211	0.121	22.3
Right tilted	RMC	9400/1880	1:1	0.053	0.08	22.67	23.50	1.211	0.064	22.3
Front side	RMC	9400/1880	1:1	0.262	-0.03	nm) Sensor o	20.50	1.194	0.313	22.3
Back side	RMC	9400/1880	1:1	0.404	0.16	19.73	20.50	1.194	0.313	22.3
Dack side	KIVIC	9400/1000				nm) Sensor o		1.134	0.402	22.5
Front side	RMC	9400/1880	1:1	0.277	0.08	22.67	23.50	1.211	0.335	22.3
Back side	RMC	9400/1880	1:1	0.544	-0.15	22.67	23.50	1.211	0.659	22.3
Daoit oldo		10.00,.000		est data(Se					0.000	
Front side	RMC	9400/1880	1:1	0.262	-0.13	19.73	20.50	1.194	0.313	22.3
Back side	RMC	9400/1880	1:1	0.404	0.10	19.73	20.50	1.194	0.482	22.3
Bottom side	RMC	9400/1880	1:1	0.789	-0.08	19.73	20.50	1.194	0.942	22.3
Bottom side	RMC	9262/1852.4	1:1	0.810	0.02	19.71	20.50	1.199	0.972	22.3
Bottom side	RMC	9538/1907.6		0.758	-0.11	19.68	20.50	1.208	0.916	22.3
	•			Hotspot Test	data Senso					
Front side-15mm	RMC	9400/1880	1:1	0.277	-0.16	22.67	23.50	1.211	0.335	22.3
Back side-15mm	RMC	9400/1880	1:1	0.544	-0.15	22.67	23.50	1.211	0.659	22.3
Left side-10mm	RMC	9400/1880	1:1	0.059	0.03	22.67	23.50	1.211	0.071	22.3
Right side-10mm	RMC	9400/1880	1:1	0.121	0.18	22.67	23.50	1.211	0.146	22.3
Bottom side -15mm	RMC	9400/1880	1:1	0.810	-0.06	22.67	23.50	1.211	0.981	22.3
Bottom side -15mm		9262/1852.4		0.884	-0.06	22.99	23.50	1.125	0.994	22.3
Bottom side -15mm	RMC	9538/1907.6	1:1	0.765 SAR	0.11	22.55 Conducted	23.50 Tune up	1.245	0.952 Scaled	22.3
Tool manifica	_	Test		SAR						
	Tast made		Duty Cycle		Power			Scaled		Liquid
Test position	Test mode	Ch./Freq.	Duty Cycle	(W/kg) 10-	Power Drift (dB)	Power	Limit	Scaled factor	SAR	Liquid Temp
lest position	Test mode			(W/kg) 10- g	Drift (dB)	Power (dBm)				
·	RMC			(W/kg) 10- g est data(Se	Drift (dB)	Power (dBm)	Limit (dBm)		SAR	
Front side Back side		Ch./Freq. 9400/1880	Limbs T	(W/kg) 10- g	Drift (dB) parate 0mm	Power (dBm)) Sensor on 19.73	Limit	factor 1.194	SAR (W/kg) 0.992	Temp 22.3
Front side	RMC	Ch./Freq.	Limbs T	(W/kg) 10- g est data(Se 0.831	Drift (dB) parate 0mm 0.16	Power (dBm)) Sensor on	Limit (dBm)	factor	SAR (W/kg)	Temp
Front side Back side	RMC RMC	9400/1880 9400/1880	Limbs T 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270	Drift (dB) parate 0mm 0.16 -0.03 -0.07	Power (dBm)) Sensor on 19.73 19.73	20.50 20.50	1.194 1.194	SAR (W/kg) 0.992 1.516	22.3 22.3
Front side Back side	RMC RMC	9400/1880 9400/1880	Limbs T 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978	Drift (dB) parate 0mm 0.16 -0.03 -0.07	Power (dBm)) Sensor on 19.73 19.73	20.50 20.50	1.194 1.194	SAR (W/kg) 0.992 1.516	22.3 22.3
Front side Back side Bottom side	RMC RMC RMC	9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test	parate 0mm 0.16 -0.03 -0.07 data Sensor	Power (dBm)) Sensor on 19.73 19.73 19.73 off	20.50 20.50 20.50	1.194 1.194 1.194	SAR (W/kg) 0.992 1.516 1.168	22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm	RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158	parate 0mm 0.16 -0.03 -0.07 data Sensor -0.11	Power (dBm)) Sensor on 19.73 19.73 19.73 r off 22.67	20.50 20.50 20.50 20.50	1.194 1.194 1.194 1.211	SAR (W/kg) 0.992 1.516 1.168	22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16	Power (dBm)) Sensor on 19.73 19.73 19.73 off 22.67 22.67 22.67 22.67	Limit (dBm) 20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50	1.194 1.194 1.194 1.211 1.211 1.211 1.211	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08	Power (dBm)) Sensor on 19.73 19.73 19.73 r off 22.67 22.67 22.67	20.50 20.50 20.50 20.50 20.50 23.50 23.50 23.50	1.194 1.194 1.194 1.211 1.211 1.211	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161	22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16	Power (dBm)) Sensor on 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50	1.194 1.194 1.194 1.211 1.211 1.211 1.211	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08	Power (dBm)) Sensor on 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 Conducted Power	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 Tune up	1.194 1.194 1.194 1.211 1.211 1.211 1.211	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm	RMC RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 Te	Drift (dB) parate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power	Power (dBm)) Sensor on 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 Conducted	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 Scaled	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position	RMC RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Duty Cycle	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 Te SAR (W/kg) 1-g	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB)	Power (dBm)) Sensor on 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 Conducted Power (dBm)	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 Tune up Limit (dBm)	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 Scaled factor	0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg)	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq.	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB) Test data -0.04	Power (dBm)) Sensor on 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 22.67 Conducted Power (dBm) 21.36	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 24.50 25.50	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 Scaled factor 1.300	0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg)	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted	RMC RMC RMC RMC RMC RMC RMC RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq.	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 Duty Cycle	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 Te SAR (W/kg) 1-g	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB)	Power (dBm)) Sensor on 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 Conducted Power (dBm)	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 Tune up Limit (dBm)	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 Scaled factor	0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg)	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq.	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g Test data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB) Test data -0.04 0.15	Power (dBm)) Sensor on 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 22.67 Conducted Power (dBm) 21.36 21.36	20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 Scaled factor 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg)	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq. 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g Test data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04	Power (dBm)) Sensor on 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 22.67 Conducted Power (dBm) 21.36 21.36 21.36	Limit (dBm) 20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 Tune up Limit (dBm) 22.50 22.50 22.50 22.50	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted Front side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq. 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 Te SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(S	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 19.92	Limit (dBm) 20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 Tune up Limit (dBm) 22.50 22.50 22.50 22.50 21.00	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq. 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(S 0.079 0.197	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 Power Drift (dB) Test data -0.04 0.15 0.14 -0.04 eparate 10r -0.18 -0.02	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 21.36 19.92 19.92	Limit (dBm) 20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 Tune up Limit (dBm) 22.50 22.50 22.50 22.50 21.00 21.00	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.300 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted Front side Front side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq. 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g Test data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(Se	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 Dest Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04 Deparate 10r -0.18 -0.02 Deparate 15r	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 7 off 22.67 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 21.36 19.92 19.92 nm) Sensor of	Limit (dBm) 20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 Tune up Limit (dBm) 22.50 22.50 22.50 22.50 21.00 21.00 21.00	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.212 Scaled factor 1.300 1.300 1.300 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797 0.101 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted Front side Front side Front side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(S 0.079 0.197 Test data(S	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 Dest Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04 Deparate 10r -0.18 -0.02 Deparate 15r -0.01	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 21.36 19.92 19.92 nm) Sensor of 21.36	Limit (dBm) 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 21.00 21.00 21.00 25.50 22.50	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.212 Scaled factor 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797 0.101 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted Front side Front side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 Test Ch./Freq. 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(S 0.079 0.197 Test data(S 0.054 0.118	Drift (dB) parate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB) Test data -0.04 -0.15 0.14 -0.04 esparate 10r -0.18 -0.02 esparate 15r -0.01 0.10	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 mm) Sensor of 19.92 19.92 nm) Sensor of 21.36 21.36 21.36	Limit (dBm) 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 21.00 22.50 21.00 21.00 21.00 21.00 21.00 22.50	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.212 Scaled factor 1.300 1.300 1.300 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797 0.101 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted Front side Front side Front side Back side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(Se 0.054 0.118 est data(Se	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 Dest Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04 Deparate 10r -0.18 -0.02 Deparate 15r -0.01 Deparate 10m	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 mm) Sensor of 21.36 mm) Sensor of 21.36 mm) Sensor of 21.36 mm) Sensor of	Limit (dBm) 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 21.00 22.50 21.00 21.00 21.00 21.00 21.00	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.212 Scaled factor 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797 0.101 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Test position Left cheek Left tilted Right cheek Right tilted Front side Front side Back side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(Se 0.079 0.197 Test data(Se 0.079	Drift (dB) parate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 est Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04 eparate 10r -0.18 -0.02 eparate 15r -0.01 0.10 parate 10mi 0.08	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 22.67 22.67 22.67 22.67 21.36	Limit (dBm) 20.50 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 21.00 22.50 21.00 21.00 21.00 21.00 21.00	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.212 Scaled factor 1.300 1.300 1.300 1.300 1.300 1.282 1.282 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797 0.101 0.253 0.070 0.153	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3
Front side Back side Bottom side Front side-15mm Back side-15mm Left side-0mm Right side-0mm Bottom side -15mm Test position Left cheek Left tilted Right cheek Right tilted Front side Front side Front side Back side	RMC	9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880 9400/1880	Limbs T 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:	(W/kg) 10- g est data(Se 0.831 1.270 0.978 Limbs Test 0.158 0.248 0.133 0.382 0.451 Ant4 To SAR (W/kg) 1-g Head 0.346 0.435 0.520 0.613 Test data(Se 0.054 0.118 est data(Se	Drift (dB) Darate 0mm 0.16 -0.03 -0.07 data Sensor -0.11 0.17 0.05 0.16 -0.08 Dest Record Power Drift (dB) Test data -0.04 0.15 0.14 -0.04 Deparate 10r -0.18 -0.02 Deparate 15r -0.01 Deparate 10m	Power (dBm)) Sensor on 19.73 19.73 19.73 19.73 r off 22.67 22.67 22.67 22.67 22.67 22.67 22.67 22.67 21.36 21.36 21.36 21.36 mm) Sensor of 21.36 mm) Sensor of 21.36 mm) Sensor of 21.36 mm) Sensor of	Limit (dBm) 20.50 20.50 20.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 21.00 22.50 21.00 21.00 21.00 21.00 21.00	1.194 1.194 1.194 1.194 1.211 1.211 1.211 1.211 1.211 1.211 1.211 1.212 Scaled factor 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300 1.300	SAR (W/kg) 0.992 1.516 1.168 0.191 0.300 0.161 0.462 0.546 Scaled SAR (W/kg) 0.450 0.566 0.676 0.797 0.101 0.253	22.3 22.3 22.3 22.3 22.3 22.3 22.3 22.3



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Report No.: AR/2021/1000808

Page : 81 of 132

1										
				Hotspot Test	t data Senso	r off				
Front side-15mm	RMC	9400/1880	1:1	0.054	0.06	21.36	22.50	1.300	0.070	22.3
Back side-15mm	RMC	9400/1880	1:1	0.118	0.18	21.36	22.50	1.300	0.153	22.3
Left side-10mm	RMC	9400/1880	1:1	0.023	-0.18	21.36	22.50	1.300	0.030	22.3
Right side-10mm	RMC	9400/1880	1:1	0.016	-0.02	21.36	22.50	1.300	0.021	22.3
Top side-15mm	RMC	9400/1880	1:1	0.142	-0.15	21.36	22.50	1.300	0.185	22.3
				Ant1 To	est Record					
			Head Tes	t data at the	worst case v	with Battery2	2#			
Right cheek	RMC	9400/1880	1:1	0.096	0.04	22.67	23.50	1.211	0.116	22.3
		B	ody worn T	est data at tl	he worst cas	e with Batte	ry2#			
Back side	RMC	9400/1880	1:1	0.535	-0.14	22.67	23.50	1.211	0.648	22.3
			Hotspot Te	st data at the	e worst case	with Battery	2#			
Bottom side -15mm	RMC	9262/1852.4	1:1	0.865	-0.03	22.99	23.50	1.125	0.973	22.3
				Ant4 To	est Record					
			Head Tes	t data at the	worst case v	with Battery2	2#			
Right tilted	RMC	9400/1880	1:1	0.601	-0.07	21.36	22.50	1.300	0.781	22.3
		B	ody worn T	est data at tl	he worst cas	e with Batte	ry2#			
Front side	RMC	9400/1880	1:1	0.182	-0.03	19.92	21.00	1.282	0.233	22.3
			Hotspot Te	st data at the	e worst case	with Battery	2#			
Top side	RMC	9400/1880	1:1	0.190	-0.10	19.92	21.00	1.282	0.244	22.3

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



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Report No.: AR/2021/1000808

Page : 82 of 132

8.3.4 SAR Result of WCDMA Band IV

WCDMA Band IV SAR Test Record												
				Ant1 Tes	st Record							
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp		
				Head T	est data							
Left cheek	RMC	1412/1732.4	1:1	0.084	0.01	23.44	24.50	1.276	0.107	22.2		
Left tilted	RMC	1412/1732.4	1:1	0.065	-0.14	23.44	24.50	1.276	0.083	22.2		
Right cheek	RMC	1412/1732.4	1:1	0.073	0.08	23.44	24.50	1.276	0.093	22.2		
Right tilted	RMC	1412/1732.4	1:1	0.068	-0.08	23.44	24.50	1.276	0.087	22.2		
			Body worn 1	est data(Se	parate 10m	m) Sensor o	n					
Front side	RMC	1412/1732.4	1:1	0.271	0.11	18.08	19.50	1.387	0.376	22.3		
Back side	RMC	1412/1732.4	1:1	0.762	0.05	18.08	19.50	1.387	1.057	22.3		
Back side	RMC	1312/1712.4	1:1	0.689	0.05	18.10	19.50	1.380	0.951	22.3		
Back side	RMC	1513/1752.6	1:1	0.745	0.05	18.14	19.50	1.368	1.019	22.3		
			Body worn 1	est data(Se	parate 15m	m) Sensor of	f					
Front side	RMC	1412/1732.4	1:1	0.283	0.12	23.44	24.50	1.276	0.361	22.3		
Back side	RMC	1412/1732.4	1:1	0.423	0.12	23.44	24.50	1.276	0.540	22.3		
			Hotspot Te	est data(Sep	arate 10mm	n) Sensor on						
Front side	RMC	1412/1732.4	1:1	0.271	-0.04	18.08	19.50	1.387	0.376	22.3		
Back side	RMC	1412/1732.4	1:1	0.762	0.05	18.08	19.50	1.387	1.057	22.3		
Back side	RMC	1312/1712.4	1:1	0.689	0.05	18.10	19.50	1.380	0.951	22.3		
Back side	RMC	1513/1752.6	1:1	0.745	0.05	18.14	19.50	1.368	1.019	22.3		
Bottom side	RMC	1412/1732.4	1:1	0.405	0.13	18.08	19.50	1.387	0.562	22.3		
			Hotsp	ot Test data	ı 15 mm Sei	nsor off						
Front side-15mm	RMC	1412/1732.4	1:1	0.283	0.08	23.44	24.50	1.276	0.361	22.3		
Back side-15mm	RMC	1412/1732.4	1:1	0.423	-0.17	23.44	24.50	1.276	0.540	22.3		
Left side-10mm	RMC	1412/1732.4	1:1	0.051	-0.02	23.44	24.50	1.276	0.065	22.3		
Right side-10mm	RMC	1412/1732.4	1:1	0.105	0.00	23.44	24.50	1.276	0.134	22.3		
Bottom side -15mm	RMC	1412/1732.4	1:1	0.646	0.13	23.44	24.50	1.276	0.825	22.3		
Bottom side -15mm	RMC	1312/1712.4	1:1	0.574	0.13	23.42	24.50	1.282	0.736	22.3		
Bottom side -15mm	RMC	1513/1752.6	1:1	0.697	-0.01	23.55	24.50	1.245	0.867	22.3		
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 (W/kg)	Liquid Temp		
			Limbs Test	data(Separa	ate 0mm 1R	B) Sensor or	1					
Front side	RMC	1412/1732.4	1:1	0.538	0.07	18.09	19.50	1.384	0.744	22.3		
Back side	RMC	1412/1732.4	1:1	0.813	0.08	18.09	19.50	1.384	1.125	22.3		
Bottom side	RMC	1412/1732.4	1:1	1.260	-0.01	18.09	19.50	1.384	1.743	22.3		
			L	imbs Test d	ata Sensor	off						
Front side-15mm	RMC	1412/1732.4	1:1	0.160	0.07	23.44	24.50	1.276	0.204	22.3		



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Page : 83 of 132

Back side-15mm	RMC	1412/1732.4	1:1	0.237	0.05	23.44	24.50	1.276	0.303	22.3
Left side-0mm	RMC	1412/1732.4	1:1	0.096	0.12	23.44	24.50	1.276	0.123	22.3
Right side-0mm	RMC	1412/1732.4	1:1	0.235	0.03	23.44	24.50	1.276	0.300	22.3
Bottom side -15mm	RMC	1412/1732.4	1:1	0.350	0.13	23.44	24.50	1.276	0.447	22.3
Bottom oldo Tollilli	14,000	1112/1702.1	1.1		st Record	20.11	2 1.00	1.2.0	0.111	22.0
						Conducted	Tune up		Scaled	
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Dawar	Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
	•			Head T	est data	•				
Left cheek	RMC	1412/1732.4	1:1	0.151	-0.07	22.84	24.00	1.306	0.197	22.2
Left tilted	RMC	1412/1732.4	1:1	0.182	-0.07	22.84	24.00	1.306	0.238	22.2
Right cheek	RMC	1412/1732.4	1:1	0.219	-0.05	22.84	24.00	1.306	0.286	22.2
Right tilted	RMC	1412/1732.4	1:1	0.243	-0.07	22.84	24.00	1.306	0.317	22.2
			Body worn T	est data(Se	parate 10m	ım) Sensor o	n		l .	l .
Front side	RMC	1412/1732.4	1:1	0.042	0.16	22.33	23.50	1.309	0.055	22.3
Back side	RMC	1412/1732.4	1:1	0.078	-0.18	22.33	23.50	1.309	0.102	22.3
	<u> </u>		Body worn 1	est data(Se	parate 15m	ım) Sensor o	ff	I	I.	l .
Front side	RMC	1412/1732.4	1:1	0.048	-0.13	22.84	24.00	1.306	0.063	22.3
Back side	RMC	1412/1732.4	1:1	0.051	0.08	22.84	24.00	1.306	0.067	22.3
		l .	Hotspot Te	st data(Sep	arate 10mm	n) Sensor on				
Front side	RMC	1412/1732.4	1:1	0.042	-0.09	22.33	23.50	1.309	0.055	22.3
Back side	RMC	1412/1732.4	1:1	0.078	-0.18	22.33	23.50	1.309	0.102	22.3
Top side	RMC	1412/1732.4	1:1	0.100	-0.13	22.33	23.50	1.309	0.131	22.3
		l .	H	otspot Test	data Senso	r off			l .	
Front side-15mm	RMC	1412/1732.4	1:1	0.048	-0.02	22.84	24.00	1.306	0.063	22.3
Back side-15mm	RMC	1412/1732.4	1:1	0.051	0.10	22.84	24.00	1.306	0.067	22.3
Left side-10mm	RMC	1412/1732.4	1:1	0.022	0.00	22.84	24.00	1.306	0.029	22.3
Right side-10mm	RMC	1412/1732.4	1:1	0.013	0.18	22.84	24.00	1.306	0.017	22.3
Top side-15mm	RMC	1412/1732.4	1:1	0.053	0.19	22.84	24.00	1.306	0.069	22.3
	•			Ant1 Tes	st Record				<u> </u>	<u> </u>
			Head Test	data at the w	vorst case w	vith Battery2#	ŧ			
Left cheek	RMC	1412/1732.4	1:1	0.076	0.06	23.44	24.50	1.276	0.097	22.2
	•	Вс	ody worn Te	st data at the	e worst case	e with Battery	/2#	•	•	•
Back side	RMC	1412/1732.4	1:1	0.744	0.08	18.08	19.50	1.387	1.032	22.3
	•	ŀ	Hotspot Test	data at the	worst case	with Battery2	2#			•
Back side	RMC	1412/1732.4	1:1	0.744	0.08	18.08	19.50	1.387	1.032	22.3
	•			Ant4 Tes	st Record				<u> </u>	<u> </u>
			Head Test	data at the w	vorst case w	vith Battery2#	#			
Right tilted	RMC	1412/1732.4	1:1	0.231	0.04	22.84	24.00	1.306	0.302	22.2
	•	Вс	ody worn Te	st data at the	e worst case	e with Battery	/2#	•	•	•
Back side	RMC	1412/1732.4	1:1	0.072	-0.07	22.33	23.50	1.309	0.094	22.3
	•		Hotspot Test	data at the	worst case	with Battery2	2#	•	•	•



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Report No.: AR/2021/1000808

Page : 84 of 132

Top side RMC 1412/1732.4 1:1 0.095 0.17 22.33 23.50 1.309 0.124 22.3

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



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Report No.: AR/2021/1000808

Page : 85 of 132

8.3.5 SAR Result of WCDMA Band V

			WCD	MA Band V	SAR Test I	Record						
				Ant1 Tes	st Record							
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp		
				Head T	est data							
Left cheek	RMC	4182/836.4	1:1	0.165	0.03	23.30	24.50	1.318	0.218	22.1		
Left tilted	RMC	4182/836.4	1:1	0.077	0.01	23.30	24.50	1.318	0.102	22.1		
Right cheek	RMC	4182/836.4	1:1	0.119	0.08	23.30	24.50	1.318	0.157	22.1		
Right tilted	RMC	4182/836.4	1:1	0.066	0.03	23.30	24.50	1.318	0.087	22.1		
Body worn Test data(Separate 10mm) Sensor on												
Front side	RMC	4182/836.4	1:1	0.129	0.02	20.56	22.00	1.393	0.180	22.1		
Back side	RMC	4182/836.4	1:1	0.179	0.01	20.56	22.00	1.393	0.249	22.1		
	•		Body worn 1	Test data(Se	parate 15m	m) Sensor of	ff	•	•			
Front side	RMC	4182/836.4	1:1	0.112	0.05	23.30	24.50	1.318	0.148	22.1		
Back side	RMC	4182/836.4	1:1	0.134	0.10	23.30	24.50	1.318	0.177	22.1		
			l					l	I.			
			Hotspot Te	est data(Sep	arate 10mm	n) Sensor on						
Front side	RMC	4182/836.4	1:1	0.129	0.02	20.56	22.00	1.393	0.180	22.1		
Back side	RMC	4182/836.4	1:1	0.179	0.01	20.56	22.00	1.393	0.249	22.1		
Bottom side	RMC	4182/836.4	1:1	0.093	0.16	20.56	22.00	1.393	0.130	22.1		
			Hotsp	ot Test data	15 mm Sei	nsor off						
Front side-15mm	RMC	4182/836.4	1:1	0.112	0.05	23.30	24.50	1.318	0.148	22.1		
Back side-15mm	RMC	4182/836.4	1:1	0.134	0.10	23.30	24.50	1.318	0.177	22.1		
Left side-10mm	RMC	4182/836.4	1:1	0.079	-0.18	23.30	24.50	1.318	0.104	22.1		
Right side-10mm	RMC	4182/836.4	1:1	0.054	0.09	23.30	24.50	1.318	0.071	22.1		
Bottom side -15mm	RMC	4182/836.4	1:1	0.091	-0.13	23.30	24.50	1.318	0.120	22.1		
	1		1	Ant4 Tes	st Record	1		1				
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp		
				Head T	est data							
Left cheek	RMC	4182/836.4	1:1	0.379	0.19	22.26	23.00	1.186	0.449	22.1		
Left tilted	RMC	4182/836.4	1:1	0.345	0.08	22.26	23.00	1.186	0.409	22.1		
Right cheek	RMC	4182/836.4	1:1	0.769	0.10	22.26	23.00	1.186	0.912	22.1		
Right tilted	RMC	4182/836.4	1:1	0.502	0.06	22.26	23.00	1.186	0.595	22.1		
Right cheek	RMC	4132/826.4	1:1	0.712	0.12	22.24	23.00	1.191	0.848	22.1		
Right cheek	RMC	4233/846.6	1:1	0.735	0.09	22.24	23.00	1.191	0.876	22.1		
	•		Body worn 7	Test data(Se	parate 10m	m) Sensor o	n		•			



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Report No.: AR/2021/1000808

Page : 86 of 132

Front side	RMC	4182/836.4	1:1	0.087	-0.09	22.26	23.00	1.186	0.103	22.3	
Back side	RMC	4182/836.4	1:1	0.100	0.04	22.26	23.00	1.186	0.119	22.3	
			Body worn ⁻	Test data(Se	parate 15m	m) Sensor o	ff				
Front side	RMC	4182/836.4	1:1	0.133	0.09	23.44	24.50	1.276	0.170	22.3	
Back side	RMC	4182/836.4	1:1	0.244	-0.07	23.44	24.50	1.276	0.311	22.3	
Hotspot Test data(Separate 10mm) Sensor on											
Front side	RMC	4182/836.4	1:1	0.087	0.13	22.26	23.00	1.186	0.103	22.3	
Back side	RMC	4182/836.4	1:1	0.100	-0.12	22.26	23.00	1.186	0.119	22.3	
Top side	RMC	4182/836.4	1:1	0.114	0.11	22.26	23.00	1.186	0.135	22.3	
			Н	otspot Test	data Sensor	off					
Front side-15mm	RMC	4182/836.4	1:1	0.133	-0.19	23.44	24.50	1.276	0.170	22.3	
Back side-15mm	RMC	4182/836.4	1:1	0.244	-0.07	23.44	24.50	1.276	0.311	22.3	
Left side-10mm	RMC	4182/836.4	1:1	0.097	-0.14	23.44	24.50	1.276	0.124	22.3	
Right side-10mm	RMC	4182/836.4	1:1	0.061	-0.04	23.44	24.50	1.276	0.078	22.3	
Top side-15mm	RMC	4182/836.4	1:1	0.074	0.04	23.44	24.50	1.276	0.094	22.3	
				Ant1 Te	st Record						
			Head Test	data at the v	vorst case w	ith Battery2#	#				
Left cheek	RMC	4182/836.4	1:1	0.161	0.04	23.30	24.50	1.318	0.212	22.1	
		Во	dy worn Te	st data at the	e worst case	with Battery	y2#				
Back side	RMC	4182/836.4	1:1	0.166	-0.10	20.56	22.00	1.393	0.231	22.1	
		H	Hotspot Test	t data at the	worst case	with Battery2	2#				
Back side	RMC	4182/836.4	1:1	0.166	-0.10	20.56	22.00	1.393	0.231	22.1	
				Ant4 Te	st Record						
			Head Test	data at the v	vorst case w	ith Battery2#	#				
Right cheek	RMC	4182/836.4	1:1	0.759	0.14	22.26	23.00	1.186	0.900	22.1	
		Вс	dy worn Te	st data at the	e worst case	with Battery	y2#				
Back side	RMC	4182/836.4	1:1	0.241	0.06	23.44	24.50	1.276	0.308	22.3	
		H	Hotspot Test	data at the	worst case	with Battery2	2#				
Back side	RMC	4182/836.4	1:1	0.241	0.06	23.44	24.50	1.276	0.308	22.3	

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



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Page : 87 of 132

8.3.6 SAR Result of LTE Band 2

					2 SAR Test						
Test position	BW.	Test mode	Test Ch./Freq.	Ant1 Duty Cycle	SAR (W/kg) 1-g	Power	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(1I	RB)	(()		(======================================	
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.071	-0.17	23.24	24.50	1.337	0.095	22.3
Left tilted	20		18700/1860	1:1	0.058	0.19	23.24	24.50	1.337	0.078	22.3
Right cheek	20		18700/1860	1:1	0.075	-0.03	23.24	24.50	1.337	0.100	22.3
Right tilted	20	QPSK 1RB_0	18700/1860	1:1	0.060	-0.10	23.24	24.50	1.337	0.080	22.3
		Ta = =			est data(50%						
Left cheek	20	QPSK 50RB_50		1:1	0.060	-0.11	22.71	23.50	1.199	0.072	22.3
Left tilted	20	QPSK 50RB_50		1:1	0.049	0.13	22.71	23.50	1.199	0.059	22.3
Right cheek Right tilted	20	QPSK 50RB_50 QPSK 50RB_50		1:1 1:1	0.088	-0.01 0.04	22.71 22.71	23.50	1.199	0.106	22.3 22.3
Right tilled	20	QPSK 50KB_50	Body worn		0.057			23.50	1.199	0.068	22.3
Front side	20	QPSK 1RB 0		1:1	0.258	-0.19	19.21	20.00	1.199	0.309	22.3
Back side	20	QPSK 1RB_0		1:1	0.428	-0.19	19.21	20.00	1.199	0.513	22.3
Dack side			ody worn Te					20.00	1.100	0.010	22.0
Front side	20	QPSK 50RB 50		1:1	0.252	-0.17	19.30	20.00	1.175	0.296	22.3
Back side	20	QPSK 50RB_50		1:1	0.412	0.10	19.30	20.00	1.175	0.484	22.3
			Body worn								
Front side	20	QPSK 1RB_0		1:1	0.374	-0.01	22.32	23.50	1.312	0.491	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.548	0.060	22.32	23.50	1.312	0.719	22.3
		В	ody worn Te	st data (Se	parate 15m	m 50%RB)	Sensor off				
Front side	20	QPSK 50RB_50		1:1	0.325	-0.04	22.51	23.50	1.256	0.408	22.3
Back side	20	QPSK 50RB_50			0.514	0.15	22.51	23.50	1.256	0.646	22.3
		T		,	parate 10m					1	
Front side	20	QPSK 1RB_0		1:1	0.258	0.06	19.21	20.00	1.199	0.309	22.3
Back side	20		18700/1860	1:1	0.428	0.15	19.21	20.00	1.199	0.513	22.3
Bottom side	20		18700/1860	1:1	0.700	-0.19	19.21	20.00	1.199	0.840	22.3
Bottom side	20	QPSK 1RB_0		1:1	0.686	-0.08	19.14	20.00	1.219	0.836	22.3
Bottom side	20	QPSK 1RB_0		1:1	0.673	-0.17	19.15	20.00	1.216	0.818	22.3
Front side	20	QPSK 50RB 50	Hotspot Tes	1:1	0.252	-0.14	19.30	20.00	1.175	0.296	22.3
Back side	20	QPSK 50RB 50		1:1	0.412	0.07	19.30	20.00	1.175	0.290	22.3
Bottom side	20	QPSK 50RB 50		1:1	0.685	-0.09	19.30	20.00	1.175	0.805	22.3
Bottom side	20	QPSK 50RB 50		1:1	0.704	0.14	19.20	20.00	1.202	0.846	22.3
Bottom side	20	QPSK 50RB_50		1:1	0.695	-0.12	19.29	20.00	1.178	0.818	22.3
20110111 0100			Hotspot Test					20.00		0.0.0	
Bottom side	20	QPSK 100RB_0		1:1	0.650	-0.18	19.19	20.00	1.205	0.783	22.3
•		_	Н	otspot Test	data 1RB S	Sensor off					
Front side-15mm	20	QPSK 1RB_0		1:1	0.296	0.12	22.32	23.50	1.312	0.388	22.3
Back side-15mm	20	QPSK 1RB_0	18700/1860	1:1	0.480	-0.05	22.32	23.50	1.312	0.630	22.3
Left side-10mm	20		18700/1860	1:1	0.071	0.08	22.32	23.50	1.312	0.093	22.3
Right side-10mm	20		18700/1860	1:1	0.139	0.00	22.32	23.50	1.312	0.182	22.3
Bottom side -15mm	20		18700/1860	1:1	0.773	0.050	22.32	23.50	1.312	1.014	22.3
Bottom side -15mm	20	QPSK 1RB_0		1:1	0.812	0.07	23.31	23.50	1.045	0.848	22.3
Bottom side -15mm	20	QPSK 1RB_0			0.813	0.11	23.31	23.50	1.045	0.849	22.3
Front oids 45	20	ODEN FORD TO			data 50%RE			22.50	1 250	0.257	20.0
Front side-15mm	20	QPSK 50RB_50 QPSK 50RB_50		1:1	0.284	0.19	22.51	23.50	1.256	0.357	22.3
Back side-15mm Left side-10mm	20 20	QPSK 50RB_50 QPSK 50RB 50		1:1 1:1	0.459 0.065	-0.19 -0.04	22.51 22.51	23.50	1.256 1.256	0.577	22.3
Right side-10mm	20	QPSK 50RB_50		1:1	0.065	-0.04 0.04	22.51	23.50 23.50	1.256	0.082 0.181	22.3
Bottom side -15mm	20	QPSK 50RB_50		1:1	0.750	-0.04	22.51	23.50	1.256	0.161	22.3
Bottom side -15mm	20	QPSK 50RB 50		1:1	0.730	-0.04	22.14	23.50	1.368	0.942	22.3
Bottom side -15mm	20	QPSK 50RB_50		1:1	0.743	-0.03	22.31	23.50	1.315	0.977	22.3
					ata 100%RI						
Back side-15mm	20	QPSK 100RB_0			0.506	-0.01	22.62	23.50	1.225	0.620	22.3
Bottom side -15mm	20	QPSK 100RB_0		1:1	0.738	0.14	22.62	23.50	1.225	0.904	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 10-	Power Drift (dB)	Conducted		Scaled factor	Scaled SAR (W/kg)	Liquid Temp
			Limbs Te	est data(Se	parate 0mm	1RR) Sens		(GDIII)		(W/NG)	



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Report No.: AR/2021/1000808

Page : 88 of 132

1 5 1		Longuian		i			1			1	
Back side	20	QPSK 1RB_0			1.120	0.06	19.21	20.00	1.199	1.343	22.3
Bottom side	20	QPSK 1RB_0	18700/1860	1:1	0.929	-0.08	19.21	20.00	1.199	1.114	22.3
Front side	20	QPSK 50RB 50	18700/1860		0.789	0.04 Sei	19.30	20.00	1.175	0.927	22.3
Back side	20	QPSK 50RB_50		1:1	1.130	0.04	19.30	20.00	1.175	1.328	22.3
Bottom side	20	QPSK 50RB 50			0.938	0.04	19.30	20.00	1.175	1.102	22.3
Dottom side	20	QI OK SOND_SO			data 1RB S		19.50	20.00	1.175	1.102	22.0
Front side-15mm	20	QPSK 1RB 0	18700/1860		0.215	-0.04	22.32	23.50	1.312	0.282	22.3
Back side-15mm	20		18700/1860	1:1	0.340	-0.08	22.32	23.50	1.312	0.446	22.3
Left side-0mm	20		18700/1860	1:1	0.166	-0.19	22.32	23.50	1.312	0.218	22.3
Right side-0mm	20	QPSK 1RB_0	18700/1860	1:1	0.486	-0.10	22.32	23.50	1.312	0.638	22.3
Bottom side -15mm	20	QPSK 1RB_0	18700/1860		0.562	-0.10	22.32	23.50	1.312	0.737	22.3
					ata 50%RB						
Front side-15mm	20	QPSK 50RB_50			0.184	0.17	22.51	23.50	1.256	0.231	22.3
Back side-15mm	20	QPSK 50RB_50			0.294	0.16	22.51	23.50	1.256	0.369	22.3
Left side-0mm	20	QPSK 50RB_50			0.146	0.00	22.51	23.50	1.256	0.183	22.3
Right side-0mm	20	QPSK 50RB_50			0.443	-0.08	22.51	23.50	1.256	0.556	22.3
Bottom side -15mm	20	QPSK 50RB_50	18700/1860		0.501 Test Reco	0.10	22.51	23.50	1.256	0.629	22.3
		1		Ant4	Test Reco	ra	Conducted	Tune up		Scaled	
Test position	BW.	Test mode	Test	Duty	SAR	Power	Power	Limit	Scaled	SAR	Liquid
root poolition		Tool mode	Ch./Freq.	Cycle	(W/kg) 1-g	Drift (dB)	(dBm)	(dBm)	factor	(W/kg)	Temp
				Head ⁻	Test data(1	RB)	, ,	, , ,		\ \ \ J/	
Left cheek	20	QPSK 1RB_50	18900/1880		0.319	-0.03	21.44	22.50	1.276	0.407	22.3
Left tilted	20	QPSK 1RB_50	18900/1880	1:1	0.411	-0.19	21.44	22.50	1.276	0.525	22.3
Right cheek	20	QPSK 1RB_50			0.381	-0.05	21.44	22.50	1.276	0.486	22.3
Right tilted	20	QPSK 1RB_50	18900/1880		0.493	0.01	21.44	22.50	1.276	0.629	22.3
		T			est data(50%		1	1		1	
Left cheek	20	QPSK 50RB_50		1:1	0.403	0.12	21.43	22.50	1.279	0.516	22.3
Left tilted	20	QPSK 50RB_50			0.572	-0.07	21.43	22.50	1.279	0.732	22.3
Right cheek	20	QPSK 50RB_50		1:1	0.493	0.13	21.43	22.50	1.279	0.631	22.3
Right tilted Right tilted	20	QPSK 50RB_50 QPSK 50RB 50		1:1 1:1	0.738 0.715	-0.07 0.02	21.43 21.41	22.50 22.50	1.279 1.285	0.944 0.919	22.3 22.3
Right tilted	20	QPSK 50RB_50		1:1	0.699	0.02	21.41	22.50	1.288	0.900	22.3
Right tilted	20	QF SIX SUIXD_SU	10700/1000		st data(100		21.40	22.50	1.200	0.900	22.5
Right tilted	20	QPSK 50RB 50	18700/1860		0.712	0.03	21.27	22.50	1.327	0.945	22.3
ragin anou		Q: 0::00::12_00	Body worn							0.0.0	
Front side	20	QPSK 1RB 0	18700/1860		0.062	-0.14	20.03	21.00	1.250	0.078	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.157	-0.04	20.03	21.00	1.250	0.196	22.3
		В	ody worn Te	st data (Se	parate 10m	m 50%RB)	Sensor on				
Front side	20	QPSK 50RB_50			0.070	-0.12	20.02	21.00	1.253	0.088	22.3
Back side	20	QPSK 50RB_50			0.157	-0.040	20.02	21.00	1.253	0.197	22.3
		T	Body worn								
Front side	20	QPSK 1RB_50			0.048	-0.07	21.44	22.50	1.276	0.061	22.3
Back side	20	QPSK 1RB_50	ody worn Te		0.107	0.13	21.44	22.50	1.276	0.137	22.3
Front side	20	QPSK 50RB 50		,	1			22.50	1.279	0.064	22.3
Back side	20	QPSK 50RB_50			0.050 0.112	0.12 0.19	21.43 21.43	22.50	1.279	0.064	22.3
Datik Side	20	S. C. COND_00				m 1RB) Sei		00	1.210	0.170	0
Front side	20	QPSK 1RB_0			0.062	0.14	20.03	21.00	1.250	0.078	22.3
Back side	20	QPSK 1RB_0			0.157	-0.03	20.03	21.00	1.250	0.196	22.3
Top side	20	QPSK 1RB_0			0.154	-0.16	20.03	21.00	1.250	0.193	22.3
			Hotspot Tes			50%RB) S					
Front side	20	QPSK 50RB_50			0.070	-0.13	20.02	21.00	1.253	0.088	22.3
Back side	20	QPSK 50RB_50			0.176	0.13	20.02	21.00	1.253	0.221	22.3
Top side	20	QPSK 50RB_50			0.183	-0.080	20.02	21.00	1.253	0.229	22.3
Frank and 45		0001/400 50			data 1RB		04.44	00.50	4.070	0.004	00.0
Front side-15mm	20	QPSK 1RB_50			0.048	0.19	21.44	22.50	1.276	0.061	22.3
Back side-15mm	20	QPSK 1RB_50			0.107 0.045	0.07	21.44	22.50	1.276	0.137	22.3
Left side-10mm Right side-10mm	20 20	QPSK 1RB_50 QPSK 1RB_50			0.045	-0.13 -0.15	21.44 21.44	22.50 22.50	1.276 1.276	0.057 0.017	22.3 22.3
Top side -15mm	20	QPSK 1RB_50			0.013	-0.15	21.44	22.50	1.276	0.017	22.3
TOP SIGE - TOTTITI	۷.	WI OIL IILD_30				Sensor off		22.00	1.210	0.100	22.0
Front side-15mm	20	QPSK 50RB_50			0.050	0.09	21.43	22.50	1.279	0.064	22.3
Back side-15mm	20	QPSK 50RB_50			0.112	0.06	21.43	22.50	1.279	0.143	22.3
Left side-10mm	20	QPSK 50RB_50			0.041	-0.15	21.43	22.50	1.279	0.052	22.3
Right side-10mm	20	QPSK 50RB_50			0.012	0.04	21.43	22.50	1.279	0.015	22.3
Top side -15mm	20	QPSK 50RB_50			0.130	0.19	21.43	22.50	1.279	0.166	22.3



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Report No.: AR/2021/1000808

Page : 89 of 132

			Ant1	Test Reco	rd						
		Head Test	data at th	ne worst cas	se with Batt	ery2#					
Right cheek	20	QPSK 50RB_50 18700/1860	1:1	0.085	-0.17	22.71	23.50	1.199	0.102	22.3	
		Body worn Te	est data a	t the worst	case with B	attery2#					
Back side	20	QPSK 1RB_0 18700/1860	1:1	0.536	0.05	22.32	23.50	1.312	0.703	22.3	
		Hotspot Tes	st data at	the worst ca	ase with Ba	ttery2#					
Bottom side -15mm	20	QPSK 1RB_0 18700/1860	1:1	0.768	0.12	22.32	23.50	1.312	1.008	22.3	
	Limbs Test data at the worst case with Battery2#										
Back side	20	QPSK 1RB_0 18700/1860	1:1	1.110	-0.07	19.21	20.00	1.199	1.331	22.3	
			Ant4	Test Reco	rd						
		Head Test	data at th	ne worst cas	se with Batt	ery2#					
Right tilted	20	QPSK 50RB_50 19100/1900	1:1	0.725	-0.08	21.43	22.50	1.279	0.928	22.3	
		Body worn Te	est data a	t the worst	case with B	attery2#					
Back side	20	QPSK 50RB_50 18700/1860	1:1	0.151	0.10	20.02	21.00	1.253	0.189	22.3	
	·	Hotspot Tes	st data at	the worst ca	ase with Ba	ttery2#	•	•	•	·	
Top side	20	QPSK 50RB_50 18700/1860	1:1	0.178	0.01	20.02	21.00	1.253	0.223	22.3	

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



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Report No.: AR/2021/1000808

Page : 90 of 132

8.3.7 SAR Result of LTE Band 4

			LT	E Band 4	SAR Test	Record					
					Test Reco						
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Dower	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head Te	est data(1I	RB)					
Left cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.073	-0.02	24.29	25.00	1.178	0.086	22.2
Left tilted	20		20175/1732.5	1:1	0.052	0.15	24.29	25.00	1.178	0.061	22.2
Right cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.109	0.04	24.29	25.00	1.178	0.128	22.2
Right tilted	20		20175/1732.5	1:1	0.060	0.06	24.29	25.00	1.178	0.071	22.2
					t data(50%	6RB)				l l	
Left cheek	20	QPSK 50RB 25	20300/1745	1:1	0.059	0.07	23.26	24.00	1.186	0.070	22.2
Left tilted	20	QPSK 50RB 25		1:1	0.026	0.17	23.26	24.00	1.186	0.031	22.2
Right cheek	20	QPSK 50RB_25		1:1	0.064	0.02	23.26	24.00	1.186	0.076	22.2
Right tilted	20	QPSK 50RB_25		1:1	0.046	-0.15	23.26	24.00	1.186	0.055	22.2
ragne anod			Body worn Te					21.00	1.100	0.000	
Front side	20	QPSK 1RB_0	20175/1732 5	1:1	0.210	0.18	19.29	20.50	1.321	0.277	22.3
Back side	20	QPSK 1RB_0			0.329	0.12	19.29	20.50	1.321	0.435	22.3
Duon side	20		dy worn Test					20.00	1.021	0.700	22.0
Front side	20	QPSK 50RB 0			0.206	-0.12	19.35	20.50	1.303	0.268	22.3
		QPSK 50RB_0			0.206	-0.12	19.35	20.50			
Back side	20							20.50	1.303	0.422	22.3
Encoderated a	00		Body worn Te			1		05.00	4.405	0.404	00.0
Front side	20	QPSK 1RB_50			0.410	0.09	24.49	25.00	1.125	0.461	22.3
Back side	20	QPSK 1RB_50			0.492	0.050	24.49	25.00	1.125	0.553	22.3
			dy worn Test							1	
Front side	20	QPSK 50RB_25		1:1	0.317	0.15	23.26	24.00	1.186	0.376	22.3
Back side	20	QPSK 50RB_25		1:1	0.492	-0.15	23.26	24.00	1.186	0.583	22.3
			Hotspot Test	data(Sep	arate 10m	m 1RB) Se	nsor on				
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.210	-0.04	19.29	20.50	1.321	0.277	22.3
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.329	-0.08	19.29	20.50	1.321	0.435	22.3
Bottom side	20	QPSK 1RB_0	20175/1732.5	1:1	0.511	0.03	19.29	20.50	1.321	0.675	22.3
•			Hotspot Test of						•	•	
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.206	-0.12	19.35	20.50	1.303	0.268	22.3
Back side	20	QPSK 50RB_0			0.324	-0.08	19.35	20.50	1.303	0.422	22.3
Bottom side	20	QPSK 50RB 0			0.503	0.17	19.35	20.50	1.303	0.655	22.3
		1 40. 01. 00. 10.		spot Test of							
Front side-15mm	20	QPSK 1RB_50			0.410	0.09	24.49	25.00	1.125	0.461	22.3
Back side-15mm	20	QPSK 1RB 50			0.492	0.050	24.49	25.00	1.125	0.553	22.3
Left side-10mm	20	QPSK 1RB_50			0.053	0.16	24.49	25.00	1.125	0.060	22.3
Right side-10mm	20	QPSK 1RB_50			0.110	-0.01	24.49	25.00	1.125	0.124	22.3
Bottom side -	20				0.110	-0.01	24.43	25.00	1.123	0.124	22.3
15mm	20	QPSK 1RB_50	20175/1732.5	1:1	0.713	-0.11	24.49	25.00	1.125	0.802	22.3
Bottom side - 15mm	20	QPSK 1RB_50	20300/1745	1:1	0.675	-0.05	24.28	25.00	1.180	0.797	22.3
Bottom side - 15mm	20	QPSK 1RB_50	20050/1720	1:1	0.655	-0.08	24.14	25.00	1.219	0.798	22.3
•			Hotsp	ot Test da	ta 50%RE	Sensor of	f				
Front side-15mm	20	QPSK 50RB_25		1:1	0.317	0.15	23.26	24.00	1.186	0.376	22.3
Back side-15mm	20	QPSK 50RB_25		1:1	0.492	-0.15	23.26	24.00	1.186	0.583	22.3
Left side-10mm	20	QPSK 50RB_25		1:1	0.046	0.09	23.26	24.00	1.186	0.055	22.3
Right side-10mm	20	QPSK 50RB_25		1:1	0.090	0.12	23.26	24.00	1.186	0.107	22.3
Bottom side -											
15mm	20	QPSK 50RB_25		1:1	0.551	-0.13	23.26	24.00	1.186	0.653	22.3
Bottom oldo		1			ια τυυ%ΚΙ Ι	3 Sensor o	11				
Bottom side - 15mm	20	QPSK 100RB_0	20175/1732.5	1:1	0.431	0.06	23.26	24.00	1.230	0.511	22.3
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 (W/kg)	Liquid Temp
			Limbs Test	data(Sepa	arate 0mm	1RB) Sen	sor on				
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.665	0.12	19.45	20.50	1.274	0.847	22.3
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	1.050	0.15	19.45	20.50	1.274	1.337	22.3
				•	•	•					



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Report No.: AR/2021/1000808

Page : 91 of 132

Bottom side 20	l Dottom oldo l	20	LODGE ADD O	2047E/4722 E	l 4.4	1 4 550	l 000 l	1045	20.50	1 1 271	4.074	22.2
Fort side	Bottom side	20	QPSK TRB_0			1.550	-0.03	19.45	20.50	1.274	1.974	22.3
Back side	Front oldo	20	ODCK FODD O						20.50	4 202	0.056	22.2
Bottom side 20 QPSK 19RB 50 201761732.5 1:1 1.490 0.04 19.35 20.50 1.303 1.942 22.3												
Charles Char												
Final side-16mm 20	Bollom side	20	QPSK 50KB_0					19.35	20.50	1.303	1.942	22.3
Back side-16mm 20	Front side 15mm	20	ODCK 4DD FO					24.40	25.00	4 40E	0.406	22.2
Left side-Omm 20												
Right side-Omm 20												
Bottom side												
Company Comp		20	QPSK TRB_50	20175/1732.5	1:1	0.238	0.00	24.49	25.00	1.125	0.268	22.3
Limbs Test data 60% RB Sensor off		20	QPSK 1RB_50	20175/1732.5	1:1	0.386	-0.11	24.49	25.00	1.125	0.434	22.3
Front side-15mm	1311111			Limb	c Toet dat	2 50% DB	Soncor off					
Back side-15mm 20	Front side 15mm	20	ODSK EUDB 3E					22.26	24.00	1 196	0.166	22.2
Left side-Omm 20												
Right side-Omm 20												
Bottom side												
Test position		20	QFSK SUKB_2S	20300/1743	1.1	0.211	0.14	23.20	24.00	1.100	0.230	22.3
Test position BW. Test mode Test Ch_Freq. Duty Ch_Freq.		20	QPSK 50RB_25	20300/1745	1:1	0.310	-0.17	23.26	24.00	1.186	0.368	22.3
Test position BW. Test mode Test Ch./Freq. Duty Cycle W/kg 1 g Drift (dB) Test (dBm) Cycle	1311111					ant4						
Test position BW. Test mode Ch.Freq. Cycle (W/kg) 1- Drift (dBm) Drift (dBm) Factor GBm Factor GBm Factor Cycle Cycle Drift (dBm) Factor Cycle C								Conducted	Tune un		Scaled	
Left cheek 20	Test position	BW.	Test mode			/\A//ka\ 1	Power	Dower				-
Head Test data(TRB)	Tool pooliion		1001	Ch./Freq.	Cycle	a	Drift (dB)			factor		Temp
Left tilted 20					Head Te	est data(1F	RB)	()	(0.2111)		(11)119)	
Left tilted 20	Left cheek	20	QPSK 1RB 50	20300/1745				23.84	24.50	1.164	0.204	22.2
Right cheek 20												
Right tilted 20												
Helad Test data(50%RB)												
Left cheek 20	- ing		[40. 41. 11.12 24.]									
Left tilted	Left cheek	20	QPSK 50RB 25	20300/1745				23.30	24.00	1.175	0.174	22.2
Right cheek 20												
Right tilted 20												
Body worn Test data(Separate 10mm 1RB) Sensor on												
Front side 20					st data(Se	parate 10r	nm 1RB) S	Sensor on			ı	
Back side 20	Front side	20							24.00	1.104	0.055	22.3
Body worn Test data (Separate 10mm 50%RB) Sensor on					1:1						0.104	
Front side 20			Bo	dy worn Test	data (Sep	arate 10mi	m 50%RB)	Sensor on			•	
Back side 20	Front side	20							24.00	1.256	0.062	22.3
Front side 20	Back side	20	QPSK 50RB_25	20300/1745	1:1	0.111	0.02		24.00		0.139	
Front side 20			_	Body worn Te	st data(Se	parate 15r	nm 1RB) S	Sensor off	l .	l .	1	
Back side 20	Front side	20							24.50	1.164	0.013	22.3
Front side 20 QPSK 50RB_25 20300/1745 1:1 0.010 0.11 23.30 24.00 1.175 0.012 22.3 Back side 20 QPSK 50RB_25 20300/1745 1:1 0.042 -0.19 23.30 24.00 1.175 0.049 22.3 Hotspot Test data(Separate 10mm 1RB) Sensor on Front side 20 QPSK 1RB_50 20050/1720 1:1 0.050 0.05 23.57 24.00 1.104 0.055 22.3 Back side 20 QPSK 1RB_50 20050/1720 1:1 0.094 0.00 23.57 24.00 1.104 0.104 22.3 Top side 20 QPSK 1RB_50 20050/1720 1:1 0.109 0.14 23.57 24.00 1.104 0.120 22.3 Hotspot Test data(Separate 10mm 50%RB) Sensor on Front side 20 QPSK 50RB_25 20300/1745 1:1 0.049 0.00 23.01 24.00 1.256 0.062 22.3 Back side 20 QPSK 50RB_25 20300/1745 1:1 0.049 0.00 23.01 24.00 1.256 0.062 22.3 Back side 20 QPSK 50RB_25 20300/1745 1:1 0.093 -0.06 23.01 24.00 1.256 0.117 22.3 Top side 20 QPSK 50RB_25 20300/1745 1:1 0.134 -0.04 23.01 24.00 1.256 0.168 22.3 Hotspot Test data 1RB Sensor off Front side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.013 22.3 Back side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.061 22.3 Right side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.060 0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.056 22.3 Left side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3	Back side	20			1:1	0.050	0.10	23.84	24.50	1.164	0.058	
Back side 20			Во	dy worn Test	data (Sep	arate 15mi	m 50%RB)	Sensor off			•	
Hotspot Test data(Separate 10mm 1RB) Sensor on Front side 20	Front side	20	QPSK 50RB_25	20300/1745	1:1	0.010	0.11	23.30	24.00	1.175	0.012	22.3
Front side 20	Back side	20	QPSK 50RB_25						24.00	1.175	0.049	22.3
Front side 20				Hotspot Test	data(Sepa	arate 10mi	m 1RB) Se					
Top side 20 QPSK 1RB_50 20050/1720 1:1 0.109 0.14 23.57 24.00 1.104 0.120 22.3 Hotspot Test data(Separate 10mm 50%RB) Sensor on Front side 20 QPSK 50RB_25 20300/1745 1:1 0.049 0.00 23.01 24.00 1.256 0.062 22.3 Back side 20 QPSK 50RB_25 20300/1745 1:1 0.093 -0.06 23.01 24.00 1.256 0.117 22.3 Top side 20 QPSK 50RB_25 20300/1745 1:1 0.134 -0.04 23.01 24.00 1.256 0.168 22.3 Hotspot Test data 1RB Sensor off Front side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.011 0.11 23.84 24.50 1.164 0.013 22.3 Left side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3	Front side	20		20050/1720				23.57	24.00	1.104	0.055	22.3
Hotspot Test data(Separate 10mm 50%RB) Sensor on	Back side	20			1:1				24.00	1.104	0.104	22.3
Front side 20 QPSK 50RB_25 20300/1745 1:1 0.049 0.00 23.01 24.00 1.256 0.062 22.3 Back side 20 QPSK 50RB_25 20300/1745 1:1 0.093 -0.06 23.01 24.00 1.256 0.117 22.3 Top side 20 QPSK 50RB_25 20300/1745 1:1 0.134 -0.04 23.01 24.00 1.256 0.168 22.3 Hotspot Test data 1RB Sensor off Front side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.011 0.11 23.84 24.50 1.164 0.013 22.3 Back side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3	Top side	20							24.00	1.104	0.120	22.3
Back side 20 QPSK 50RB_25 20300/1745 1:1 0.093 -0.06 23.01 24.00 1.256 0.117 22.3 Top side 20 QPSK 50RB_25 20300/1745 1:1 0.134 -0.04 23.01 24.00 1.256 0.168 22.3 Hotspot Test data 1RB Sensor off Front side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.011 0.11 23.84 24.50 1.164 0.013 22.3 Back side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50												
Top side 20 QPSK 50RB_25 20300/1745 1:1 0.134 -0.04 23.01 24.00 1.256 0.168 22.3 Hotspot Test data 1RB Sensor off Front side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.011 0.11 23.84 24.50 1.164 0.013 22.3 Back side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3	Front side											
Hotspot Test data 1RB Sensor off Front side-15mm												
Front side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.011 0.11 23.84 24.50 1.164 0.013 22.3 Back side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.061 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.024 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB	Top side	20	QPSK 50RB_25					23.01	24.00	1.256	0.168	22.3
Back side-15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 0.04 23.84 24.50 1.164 0.058 22.3 Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.024 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25					r'						,	
Left side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.052 0.05 23.84 24.50 1.164 0.061 22.3 Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3												
Right side-10mm 20 QPSK 1RB_50 20300/1745 1:1 0.021 -0.12 23.84 24.50 1.164 0.024 22.3 Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3												
Top side -15mm 20 QPSK 1RB_50 20300/1745 1:1 0.050 -0.14 23.84 24.50 1.164 0.058 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3												
Hotspot Test data 50%RB Sensor off												
Front side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.010 -0.06 23.30 24.00 1.175 0.012 22.3 Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3	Top side -15mm	20	QPSK 1RB_50						24.50	1.164	0.058	22.3
Back side-15mm 20 QPSK 50RB_25 20300/1745 1:1 0.042 0.11 23.30 24.00 1.175 0.049 22.3 Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3			1								1	
Left side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.048 0.07 23.30 24.00 1.175 0.056 22.3												
Right side-10mm 20 QPSK 50RB_25 20300/1745 1:1 0.018 -0.18 23.30 24.00 1.175 0.021 22.3												
	Right side-10mm	20	QPSK 50RB_25	20300/1745	1:1	0.018	-0.18	23.30	24.00	1.175	0.021	22.3



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Report No.: AR/2021/1000808

Page : 92 of 132

Top side -15mm	20	QPSK 50RB_25 20300/1745	1:1	0.050	-0.13	23.30	24.00	1.175	0.059	22.3
			Ant1	Test Recor	·d					
		Head Test d	ata at the	e worst cas	e with Bat	tery2#				
Right cheek	20	QPSK 1RB_0 20175/1732.5	1:1	0.101	-0.09	24.29	25.00	1.178	0.119	22.2
		Body worn Tes	t data at	the worst of	case with E	Battery2#				
Back side	20	QPSK 50RB_25 20300/1745	1:1	0.484	0.14	23.26	24.00	1.186	0.574	22.3
		Hotspot Test	data at th	ne worst ca	se with Ba	attery2#				
Bottom side - 15mm	20	QPSK 1RB_50 20175/1732.5	1:1	0.702	0.09	24.49	25.00	1.125	0.789	22.3
		Limbs Test of	lata at th	e worst cas	se with Bat	ttery2#				
Bottom side	20	QPSK 1RB_0 20175/1732.5	1:1	1.500	-0.05	19.29	20.50	1.321	1.982	22.3
			Ant4	Test Recor	·d					
		Head Test d	ata at the	e worst cas	e with Bat	tery2#				
Right tilted	20	QPSK 50RB_25 20300/1745	1:1	0.228	-0.07	23.30	24.00	1.175	0.268	22.2
		Body worn Tes	t data at	the worst of	case with E	Battery2#				
Back side	20	QPSK 50RB_25 20300/1745	1:1	0.106	0.01	23.01	24.00	1.256	0.133	22.3
	•	Hotspot Test	data at th	ne worst ca	se with Ba	attery2#				·
Top side	20	QPSK 50RB_25 20300/1745	1:1	0.130	-0.10	23.01	24.00	1.256	0.163	22.3

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



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Report No.: AR/2021/1000808

Page : 93 of 132

8.3.8 SAR Result of LTE Band 5

			L1		SAR Tes						
Test position	BW.	Test mode	Test Ch./Freq.	Ant1 Duty Cycle	Test Reco SAR (W/kg) 1- g	Power	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
		•		Head T	est data(1	RB)					
Left cheek	10	QPSK 1RB_0	20600/844	1:1	0.167	-0.04	23.99	25.00	1.262	0.211	22.1
Left tilted	10	QPSK 1RB_0	20600/844	1:1	0.088	0.00	23.99	25.00	1.262	0.111	22.1
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.131	-0.17	23.99	25.00	1.262	0.165	22.1
Right tilted	10	QPSK 1RB_0	20600/844	1:1	0.065	-0.02	23.99	25.00	1.262	0.082	22.1
		0.001/.000.10			st data(50°						
Left cheek	10	QPSK 25RB_13		1:1	0.111	0.04	22.95	24.00	1.274	0.141	22.1
Left tilted	10	QPSK 25RB_13		1:1	0.062	0.00	22.95	24.00	1.274	0.079	22.1
Right cheek	10	QPSK 25RB_13		1:1	0.090	0.05	22.95	24.00	1.274	0.115	22.1
Right tilted	10	QPSK 25RB_13		1:1	0.048	-0.14	22.95	24.00	1.274	0.061	22.1
Encoder 1	40		Body worn T					00.50	4.050	0.404	00.4
Front side	10	QPSK 1RB_0	20600/844	1:1	0.077	-0.13	22.19	23.50	1.352	0.104	22.1
Back side	10	QPSK 1RB_0		1:1	0.091	-0.01	22.19	23.50	1.352	0.123	22.1
Format alida	40		ody worn Tes					00.50	4.050	0.444	00.4
Front side	10	QPSK 25RB_13			0.106	-0.03	22.17	23.50	1.358	0.144	22.1
Back side	10	QPSK 25RB_13			0.117	0.12	22.17	23.50	1.358	0.159	22.1
Encoderate 1	40		Body worn T					05.00	4.000	0.400	00.4
Front side	10	QPSK 1RB_0	20600/844	1:1	0.143	0.09	23.99	25.00	1.262	0.180	22.1
Back side	10	QPSK 1RB_0	20600/844	1:1	0.170	0.01	23.99	25.00	1.262	0.215	22.1
Frant side	40		ody worn Tes					04.00	4.074	0.405	00.4
Front side	10	QPSK 25RB_13			0.106	-0.17	22.95	24.00	1.274	0.135	22.1
Back side	10	QPSK 25RB_13			0.117	-0.12	22.95	24.00	1.274	0.149	22.1
	40	0001(400.0	Hotspot Tes					00.50	4.050	0.400	00.4
Front side	10	QPSK 1RB_0	20600/844	1:1	0.074	0.10	22.19	23.50	1.352	0.100	22.1
Back side	10	QPSK 1RB_0	20600/844	1:1	0.082	-0.15	22.19	23.50	1.352	0.111	22.1
Left side	10	QPSK 1RB_0	20600/844	1:1	0.052	-0.09	22.19	23.50	1.352	0.070	22.1
Right side	10	QPSK 1RB_0	20600/844	1:1	0.039	-0.16	22.19	23.50	1.352	0.053	22.1
Bottom side	10	QPSK 1RB_0	20600/844	1:1	0.070	0.02	22.19	23.50	1.352	0.095	22.1
Frant side	10		lotspot Test					22.50	1 250	0.405	22.4
Front side	10	QPSK 25RB_13			0.077	-0.05	22.17 22.17	23.50	1.358 1.358	0.105 0.124	22.1 22.1
Back side Left side	10	QPSK 25RB_13 QPSK 25RB 13			0.091	-0.15		23.50			
	10 10	QPSK 25RB_13		1:1	0.054 0.044	0.17 -0.07	22.17 22.17	23.50 23.50	1.358 1.358	0.073 0.060	22.1 22.1
Right side Bottom side	10	QPSK 25RB_13			0.044	-0.07	22.17	23.50	1.358	0.105	22.1
Bottom side	10	QF3N 23ND_13			data 1RB			23.30	1.336	0.103	22.1
Front side-15mm	10	QPSK 1RB_0	20600/844	1:1	0.143	0.09	23.99	25.00	1.262	0.180	22.1
Back side-15mm	10	QPSK 1RB_0	20600/844	1:1	0.143	0.03	23.99	25.00	1.262	0.100	22.1
Left side-10mm	10	QPSK 1RB_0	20600/844	1:1	0.035	0.01	23.99	25.00	1.262	0.044	22.1
Right side-10mm	10	QPSK 1RB_0	20600/844	1:1	0.033	0.02	23.99	25.00	1.262	0.044	22.1
Bottom side -											
15mm	10	QPSK 1RB_0	20450/829	1:1	0.003	0.04	23.99	25.00	1.262	0.003	22.1
			Hots	pot Test d	ata 50%RE	Sensor o	off			l	
Front side-15mm	10	QPSK 25RB_13		1:1	0.076	-0.13	22.95	24.00	1.274	0.097	22.1
Back side-15mm	10	QPSK 25RB_13			0.087	0.18	22.95	24.00	1.274	0.111	22.1
Left side-10mm	10	QPSK 25RB_13			0.027	0.02	22.95	24.00	1.274	0.034	22.1
Right side-10mm	10	QPSK 25RB_13			0.018	-0.11	22.95	24.00	1.274	0.023	22.1
Bottom side - 15mm	10	QPSK 25RB_13			0.005	0.10	22.95	24.00	1.274	0.006	22.1
				Ant4	Test Reco	rd					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head T	est data(1	RB)		,			
Left cheek	10	QPSK 1RB_0	20525/836.5		0.389	-0.18	21.95	23.00	1.274	0.495	22.1
Left tilted	10	QPSK 1RB_0			0.402	-0.17	21.95	23.00	1.274	0.512	22.1
Right cheek	10	QPSK 1RB_0			0.654	-0.12	21.95	23.00	1.274	0.833	22.1
Right tilted	10	QPSK 1RB_0			0.628	0.19	21.95	23.00	1.274	0.800	22.1



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Report No.: AR/2021/1000808

Page : 94 of 132

Right cheek	10	QPSK 1RB_0	20450/829	1:1	0.667	-0.18	21.88	23.00	1.294	0.863	22.1
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.669	0.01	21.87	23.00	1.297	0.868	22.1
Right tilted	10	QPSK 1RB_0	20450/829	1:1	0.634	0.07	21.88	23.00	1.294	0.821	22.1
Right tilted	10	QPSK 1RB_0	20600/844	1:1	0.661	-0.11	21.87	23.00	1.297	0.857	22.1
		T			st data(50°						
Left cheek	10	QPSK 25RB_0		1:1	0.374	0.10	21.77	23.00	1.327	0.496	22.1
Left tilted	10	QPSK 25RB_0		1:1	0.344	0.01	21.77	23.00	1.327	0.457	22.1
Right cheek	10	QPSK 25RB_0		1:1	0.612	0.15	21.77	23.00	1.327	0.812	22.1
Right cheek	10	QPSK 25RB_25		1:1	0.612	0.12	21.70	23.00	1.349	0.826	22.1
Right cheek	10	QPSK 25RB_0			0.612	0.14	21.66	23.00	1.361	0.833	22.1
Right tilted	10	QPSK 25RB_0	20600/844	1:1	0.505 st data(100	0.18	21.77	23.00	1.327	0.670	22.1
Right cheek	10	QPSK 50RB_0	20600/044	1:1	0.629	%RB) 0.06	21.72	23.00	1.343	0.845	22.1
Right tilted	10	QPSK 50RB_0		1:1	0.629	-0.17	21.72	23.00	1.343	0.700	22.1
Right tilted	10	QF3N 30ND_0			ata(Separa			23.00	1.545	0.700	22.1
Front side	10	QPSK 1RB 0	20525/836.5		0.210	-0.02	21.95	23.00	1.274	0.267	22.1
Back side	10	QPSK 1RB 0			0.149	0.02	21.95	23.00	1.274	0.190	22.1
Dack side	10	QI OK IND_0			a (Separat			20.00	1.217	0.150	22.1
Front side	10	QPSK 25RB_0		1:1	0.154	-0.09	21.77	23.00	1.327	0.204	22.1
Back side	10	QPSK 25RB 0		1:1	0.119	-0.11	21.77	23.00	1.327	0.158	22.1
			Body worn Te								
Front side	10	QPSK 1RB_0	20600/844	1:1	0.128	0.08	24.18	25.00	1.208	0.155	22.3
Back side	10	QPSK 1RB_0	20600/844	1:1	0.171	0.19	24.18	25.00	1.208	0.207	22.3
		Bo	dy worn Test	t data (Se	parate 15m	m 50%RB) Sensor off		•		
Front side	10	QPSK 25RB_0	20600/844	1:1	0.097	-0.08	23.21	24.00	1.199	0.116	22.3
Back side	10	QPSK 25RB_0	20600/844	1:1	0.129	0.06	23.21	24.00	1.199	0.155	22.3
			Hotspot Tes	t data(Se	oarate 10m	m 1RB) S	ensor on				
Front side	10		20525/836.5		0.210	-0.02	21.95	23.00	1.274	0.267	22.1
Back side	10		20525/836.5		0.149	0.08	21.95	23.00	1.274	0.190	22.1
Top side	10	QPSK 1RB_0			0.152	0.13	21.95	23.00	1.274	0.194	22.3
			lotspot Test							•	•
Front side	10	QPSK 25RB_0		1:1	0.154	0.15	21.77	23.00	1.327	0.204	22.3
Back side	10	QPSK 25RB_0		1:1	0.119	-0.15	21.77	23.00	1.327	0.158	22.3
Top side	10	QPSK 25RB_0		1:1	0.134	-0.12	21.77	23.00	1.327	0.178	22.3
		10001/1000			data 1RB						
Front side-15mm	10	QPSK 1RB_0	20600/844	1:1	0.098	0.14	24.18	25.00	1.208	0.118	22.1
Back side-15mm	10	QPSK 1RB_0	20600/844	1:1	0.134	0.01	24.18	25.00	1.208	0.162	22.1
Left side-10mm	10	QPSK 1RB_0	20600/844	1:1	0.110	-0.14	24.18	25.00	1.208	0.133	22.1
Right side-10mm Top side-15mm	10 10	QPSK 1RB_0 QPSK 1RB_0	20600/844	1:1 1:1	0.056 0.058	0.02 -0.19	24.18 24.18	25.00 25.00	1.208 1.208	0.068	22.1 22.1
Top side-Tallill	10	QFSK IND_0			ata 50%RE			23.00	1.200	0.070	22.1
Front side-15mm	10	QPSK 25RB_0		1:1	0.067	0.11	23.21	24.00	1.199	0.080	22.1
Back side-15mm	10	QPSK 25RB_0		1:1	0.087	0.11	23.21	24.00	1.199	0.080	22.1
Left side-10mm	10	QPSK 25RB_0		1:1	0.039	-0.12	23.21	24.00	1.199	0.094	22.1
Right side-10mm	10	QPSK 25RB_0		1:1	0.035	0.12	23.21	24.00	1.199	0.042	22.1
Top side-15mm	10	QPSK 25RB_0		1:1	0.043	-0.10	23.21	24.00	1.199	0.052	22.1
					Test Reco						
			Head Test				ttery2#				
Left cheek	10	QPSK 1RB_0		1:1	0.160	0.12	23.99	25.00	1.262	0.202	22.1
			Body worn T								•
Back side	10	QPSK 1RB_0	20600/844	1:1	0.162	0.08	23.99	25.00	1.262	0.204	22.1
			Hotspot Tes	st data at t	he worst c					•	•
Back side	10	QPSK 25RB_13			0.083	0.03	22.17	23.50	1.358	0.113	22.1
				Ant4	Test Reco	rd					
			Head Test		e worst ca	se with Ba	ttery2#				
Right cheek	10	QPSK 1RB_0			0.660	0.07	21.87	23.00	1.297	0.856	22.1
			Body worn T				Battery2#				
Front side	10	QPSK 1RB_0			0.202	0.12	21.95	23.00	1.274	0.257	22.1
			Hotspot Tes						_	,	,
Front side	10	QPSK 1RB_0			0.191	0.08	21.95	23.00	1.274	0.243	22.3
		T Donal E for I									

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



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Report No.: AR/2021/1000808

Page : 95 of 132

8.3.9 SAR Result of LTE Band 7

				Ant1 Test			-				
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- q	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
•			He	ead Test	data(1RB)						
Left cheek	20	QPSK 1RB_50	20850/2510	1:1	0.225	-0.17	24.43	25.00	1.140	0.257	22.1
Left tilted	20	QPSK 1RB_50	20850/2510	1:1	0.188	0.00	24.43	25.00	1.140	0.214	22.1
Right cheek	20	QPSK 1RB_50	20850/2510	1:1	0.302	0.05	24.43	25.00	1.140	0.344	22.1
Right tilted	20	QPSK 1RB_50	20850/2510	1:1	0.164	-0.13	24.43	25.00	1.140	0.187	22.1
		_	Hea	d Test da	ata(50%RE	3)	•				
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.168	-0.04	23.40	24.00	1.148	0.193	22.1
Left tilted	20	QPSK 50RB_50	20850/2510	1:1	0.152	0.13	23.40	24.00	1.148	0.175	22.1
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.279	-0.05	23.40	24.00	1.148	0.320	22.1
Right tilted	20	QPSK 50RB_50	20850/2510	1:1	0.133	-0.16	23.40	24.00	1.148	0.153	22.1
		Bod	y worn Test da	ata(Separ	ate 10mm	1RB) Sei	nsor on				
Front side	20	QPSK 1RB_50	20850/2510	1:1	0.177	-0.10	19.90	20.50	1.148	0.203	22.3
Back side	20	QPSK 1RB_50	20850/2510	1:1	0.227	0.04	19.90	20.50	1.148	0.261	22.3
		Body v	vorn Test data	(Separat	te 10mm 5	0%RB) S	ensor on				
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.173	-0.07	19.72	20.50	1.197	0.207	22.3
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.225	-0.13	19.72	20.50	1.197	0.269	22.3
			y worn Test da	ata(Separ		1RB) Sei	nsor off				-
Front side	20	QPSK 1RB_50	20850/2510	1:1	0.260	-0.18	24.43	25.00	1.140	0.296	22.3
Back side	20	QPSK 1RB_50	20850/2510	1:1	0.430	0.16	24.43	25.00	1.140	0.490	22.3
			vorn Test data	(Separat	te 15mm 5	0%RB) S	ensor off				
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.208	-0.18	23.40	24.00	1.148	0.239	22.3
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.415	0.06	23.40	24.00	1.148	0.476	22.3
		Ho	tspot Test data	a(Separat	e 10mm 1	RB) Sens	or on				
Front side	20	QPSK 1RB_50	20850/2510	1:1	0.177	-0.10	19.90	20.50	1.148	0.203	22.3
Back side	20	QPSK 1RB_50	20850/2510	1:1	0.227	0.04	19.90	20.50	1.148	0.261	22.3
Bottom side	20	QPSK 1RB_50	20850/2510	1:1	0.228	-0.03	19.90	20.50	1.148	0.262	22.3
		Hots	pot Test data(Separate	10mm 509	%RB) Ser	nsor on				
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.173	-0.07	19.72	20.50	1.197	0.207	22.3
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.225	-0.13	19.72	20.50	1.197	0.269	22.3
Bottom side	20	QPSK 50RB_50	20850/2510	1:1	0.220	0.01	19.72	20.50	1.197	0.263	22.3
				Test data	1RB Sens	sor off					
Front side-15mm	20	QPSK 1RB_50	20850/2510	1:1	0.260	-0.18	24.43	25.00	1.140	0.296	22.3
Back side-15mm	20	QPSK 1RB_50	20850/2510	1:1	0.430	0.16	24.43	25.00	1.140	0.490	22.3
Left side-10mm	20	QPSK 1RB_50	20850/2510	1:1	0.121	-0.02	24.43	25.00	1.140	0.138	22.3
Right side-10mm	20	QPSK 1RB_50	20850/2510	1:1	0.276	0.07	24.43	25.00	1.140	0.315	22.3
Bottom side - 15mm	20	QPSK 1RB_50	20850/2510	1:1	0.327	0.08	24.43	25.00	1.140	0.373	22.3
		T	Hotspot To			nsor off					
Front side-15mm	20	QPSK 50RB_50	20850/2510	1:1	0.208	-0.18	23.40	24.00	1.148	0.239	22.3
Back side-15mm	20	QPSK 50RB_50	20850/2510	1:1	0.415	0.06	23.40	24.00	1.148	0.476	22.3
Left side-10mm	20	QPSK 50RB_50	20850/2510	1:1	0.097	0.05	23.40	24.00	1.148	0.111	22.3
Right side-10mm	20	QPSK 50RB_50	20850/2510	1:1	0.218	0.00	23.40	24.00	1.148	0.250	22.3
Bottom side -	20	QPSK 50RB 50	20850/2510	1:1	0.252	-0.04	23.40	24.00	1.148	0.289	22.3
15mm						0.07	20.40			0.200	
				nt4 Test			In	_			
T	Dist	T	Test	Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-		Power	Limit	factor	SAR	Temp
			11.		data(1PP)	(dB)	(dBm)	(dBm)		(W/kg)	•
L oft ob ook	20	ODCK 4DD 00			data(1RB)	0.04	22.64	24.00	1.006	0.040	22.4
Left cheek	20	QPSK 1RB_99	21350/2560	1:1	0.201	-0.01	23.64	24.00	1.086	0.218	22.1
Left tilted	20	QPSK 1RB_99	21350/2560	1:1	0.303	-0.08	23.64	24.00	1.086	0.329	22.1
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.476	0.10	23.64	24.00	1.086	0.517	22.1
Right tilted	20	QPSK 1RB_99	21350/2560	1:1	0.719	-0.10	23.64	24.00	1.086	0.781	22.1
المعاملات ا	20	ODOK FORD FO			ata(50%RE		20.04	24.00	1.004	0.000	20.4
Left cheek	20	QPSK 50RB_50	21350/2560	1:1	0.210	-0.16	23.61	24.00	1.094	0.230	22.1
Left tilted	20	QPSK 50RB_50	21350/2560	1:1	0.325	0.08	23.61	24.00	1.094	0.356	22.1
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.479	-0.18	23.61	24.00	1.094	0.524	22.1
Right tilted	20	QPSK 50RB_50	21350/2560	1:1	0.841	0.05	23.61	24.00	1.094	0.920	22.1



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Report No.: AR/2021/1000808

Page : 96 of 132

,		ı				1	•				
Right tilted	20	QPSK 50RB_50	20850/2510	1:1	0.805	0.05	23.43	24.00	1.140	0.918	22.1
Right tilted	20	QPSK 50RB_0	21100/2535.5		0.841	0.05	23.42	24.00	1.143	0.961	22.1
				d Test dat	a(100%R	. /					
Right tilted	20	QPSK 100RB_0	21350/2560	1:1	0.758	0.05	23.57	24.00	1.104	0.837	22.1
			y worn Test da								
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.060	0.11	21.13	22.00	1.222	0.073	22.3
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.307	0.16	21.13	22.00	1.222	0.375	22.3
			vorn Test data	(Separat							
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.062	-0.05	21.04	22.00	1.247	0.077	22.3
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.226	-0.18	21.04	22.00	1.247	0.282	22.3
			y worn Test da								
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.059	0.11	23.64	24.00	1.086	0.064	22.3
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.158	0.12	23.64	24.00	1.086	0.172	22.3
			vorn Test data								
Front side	20	QPSK 50RB_50	21350/2560	1:1	0.044	-0.12	23.61	24.00	1.094	0.048	22.3
Back side	20	QPSK 50RB_50	21350/2560	1:1	0.155	-0.04	23.61	24.00	1.094	0.170	22.3
			tspot Test data								
Front side	20	QPSK 1RB_99	21350/2560	1:1	0.060	0.11	21.13	22.00	1.222	0.073	22.3
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.307	0.16	21.13	22.00	1.222	0.375	22.3
Top side	20	QPSK 1RB_99	21350/2560	1:1	0.166	-0.13	21.13	22.00	1.222	0.203	22.3
			pot Test data(
Front side	20	QPSK 50RB_0	21350/2560	1:1	0.062	-0.05	21.04	22.00	1.247	0.077	22.3
Back side	20	QPSK 50RB_0	21350/2560	1:1	0.226	-0.18	21.04	22.00	1.247	0.282	22.3
Top side	20	QPSK 50RB_0	21350/2560	1:1	0.169	0.16	21.04	22.00	1.247	0.211	22.3
			Hotspot	Test data	1RB Sens	sor off					
Front side-15mm	20	QPSK 1RB_99	21350/2560	1:1	0.059	0.11	23.64	24.00	1.086	0.064	22.3
Back side-15mm	20	QPSK 1RB_99	21350/2560	1:1	0.158	0.12	23.64	24.00	1.086	0.172	22.3
Left side-10mm	20	QPSK 1RB_99	21350/2560	1:1	0.061	0.04	23.64	24.00	1.086	0.066	22.3
Right side-10mm	20	QPSK 1RB_99	21350/2560	1:1	0.026	0.04	23.64	24.00	1.086	0.028	22.3
Top side -15mm	20	QPSK 1RB_99	21350/2560	1:1	0.138	0.00	23.64	24.00	1.086	0.150	22.3
			Hotspot T	est data 5	0%RB Se	nsor off					
Front side-15mm	20	QPSK 50RB_50	21350/2560	1:1	0.044	-0.12	23.61	24.00	1.094	0.048	22.3
Back side-15mm	20	QPSK 50RB_50	21350/2560	1:1	0.155	-0.04	23.61	24.00	1.094	0.170	22.3
Left side-10mm	20	QPSK 50RB_50	21350/2560	1:1	0.065	-0.15	23.61	24.00	1.094	0.071	22.3
Right side-10mm	20	QPSK 50RB_50	21350/2560	1:1	0.025	-0.15	23.61	24.00	1.094	0.027	22.3
Top side -15mm	20	QPSK 50RB_50	21350/2560	1:1	0.136	-0.01	23.61	24.00	1.094	0.149	22.3
				Ant1 Test							
			ead Test data					1	ı	ı	1
Right cheek	20	QPSK 1RB_50	20850/2510	1:1	0.291	0.04	24.43	25.00	1.140	0.332	22.1
Right cheek	20	PCC QPSK 1_50	20850/2510	1:1	0.259	0.03	24.21	25.00	1.199	0.311	22.1
ragin oncon		SCC QPSK 1_0	21048/2529.8					20.00	1.100	0.011	
			y worn Test da					1	ı	ı	1
Back side	20	QPSK 1RB_50	20850/2510	1:1	0.422	0.11	24.43	25.00	1.140	0.481	22.3
Back side	20	PCC QPSK 1_50	20850/2510	1:1	0.389	0.09	24.21	25.00	1.199	0.467	22.1
		SCC QPSK 1_0	21048/2529.8								
<u> </u>			tspot Test dat					05.00			00.0
Back side-15mm	20	QPSK 1RB_50	20850/2510	1:1	0.422	0.11	24.43	25.00	1.140	0.481	22.3
Back side-15mm	20	PCC QPSK 1_50	20850/2510	1:1	0.389	0.09	24.21	25.00	1.199	0.467	22.1
		SCC QPSK 1_0	21048/2529.8								L
				Ant4 Test		'41 D .:	0.11				
D. 1			ead Test data					04.55	4.00.		00.
Right tilted	20	QPSK 50RB_50	21350/2560	1:1	0.833	0.01	23.61	24.00	1.094	0.911	22.1
Right tilted	20	PCC QPSK 1RB_99		1:1	0.798	0.12	23.53	24.00	1.114	0.889	22.1
			21048/2529.8								
<u> </u>			y worn Test da					00.5-	1	0.55-	
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.301	0.09	21.13	22.00	1.222	0.368	22.3
Back side	20	PCC QPSK 1RB_99		1:1	0.285	0.01	21.02	22.00	1.253	0.357	22.1
			21048/2529.8								l
D			tspot Test dat					00.00	4.000	0.000	60.0
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.301	0.09	21.13	22.00	1.222	0.368	22.3
Back side	20	PCC QPSK 1RB_99		1:1	0.285	0.01	21.02	22.00	1.253	0.357	22.1
	_	SCC QPSK 1_0	21048/2529.8								
			NSA LTE			Record					
				Ant2 Test	Record						



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Report No.: AR/2021/1000808

Page : 97 of 132

Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g		Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head T	est data(1	RB)					
Left cheek	20	QPSK 1RB_50	21350/2560	1:1	0.099	-0.02	18.73	20.00	1.340	0.133	22.1
Left tilted	20	QPSK 1RB_50	21350/2560	1:1	0.104	-0.01	18.73	20.00	1.340	0.139	22.1
Right cheek	20	QPSK 1RB_50	21350/2560	1:1	0.353	0.11	18.73	20.00	1.340	0.473	22.1
Right tilted	20	QPSK 1RB_50	21350/2560	1:1	0.058	-0.12	18.73	20.00	1.340	0.078	22.1
		•		Head Te	st data(509	%RB)					
Left cheek	20	QPSK 50RB_25	21350/2560	1:1	0.095	0.06	18.76	20.00	1.330	0.126	22.1
Left tilted	20	QPSK 50RB_25	21350/2560	1:1	0.104	-0.11	18.76	20.00	1.330	0.138	22.1
Right cheek	20	QPSK 50RB_25		1:1	0.146	-0.06	18.76	20.00	1.330	0.194	22.1
Right tilted	20	QPSK 50RB_25		1:1	0.063	-0.10	18.76	20.00	1.330	0.084	22.1
					ata(Separa	ate 10mm 1					
Front side	20	QPSK 1RB_50		1:1	0.267	-0.13	23.18	24.00	1.208	0.322	22.3
Back side	20	QPSK 1RB_50	21100/2535.5	1:1	0.402	-0.07	23.18	24.00	1.208	0.486	22.3
			Body worr	Test data	(Separate	e 10mm 50	%RB)	L L		<u>l</u>	
Front side	20	QPSK 50RB_25		1:1	0.205	0.02	22.21	23.00	1.199	0.246	22.3
Back side	20	QPSK 50RB 25		1:1	0.349	-0.07	22.21	23.00	1.199	0.419	22.3
		_		t Test dat		10mm 1R					
Front side	20	QPSK 1RB_50		1:1	0.267	-0.13	23.18	24.00	1.208	0.322	22.3
Back side	20	QPSK 1RB 50		1:1	0.402	-0.07	23.18	24.00	1.208	0.486	22.3
Left side	20	QPSK 1RB 50		1:1	0.083	-0.03	23.18	24.00	1.208	0.100	22.3
		_	Hotspot Tes	t data(Ser		m 1RB) Se					
Top side	20	QPSK 1RB 99	20850/2510	1:1	0.034	0.10	18.35	19.50	1.303	0.044	22.3
		_	Hotspot Tes	t data(Sec	arate 15m	m 1RB) Se					
Top side	20	QPSK 1RB 50			0.088	-0.03	23.18	24.00	1.208	0.106	22.3
		_			Separate 1	10mm 50%					
Front side	20	QPSK 50RB 25		1:1	0.205	0.02	22.21	23.00	1.199	0.246	22.3
Back side	20	QPSK 50RB 25	20850/2510	1:1	0.349	-0.07	22.21	23.00	1.199	0.419	22.3
Left side	20	QPSK 50RB 25		1:1	0.074	0.01	22.21	23.00	1.199	0.089	22.3
		14. 011 0011-2-0				10mm 50%					
Top side	20	QPSK 50RB 25		1:1	0.025	-0.14	18.25	19.50	1.334	0.033	22.3
		14. 011 0011-2-0		Test data(10mm 50%					
Top side	20	QPSK 50RB 25		1:1	0.064	0.02	22.21	23.00	1.199	0.077	22.3
. 0					Test Reco						
			Head Test				tterv2#				
Right cheek	20	QPSK 1RB 50		1:1	0.342	0.19	18.73	20.00	1.340	0.458	22.1
i iig.it ciicoit			Body worn Te					_0.00		31.00	
Back side	20	QPSK 1RB_50			0.375	0.01	23.18	24.00	1.208	0.453	22.3
2001.0100			Hotspot Tes							31.00	
Back side	20	QPSK 1RB 50			0.375	0.01	23.18	24.00	1.208	0.453	22.3
		TE Dand 7 for			0.070	0.01	20.10		1.200	5.100	

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



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Report No.: AR/2021/1000808

Page : 98 of 132

8.3.10SAR Result of LTE Band 12

			L1		2 SAR Tes						
				Ant1	Test Reco	ord	<u> </u>	_			
			Test	Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
					<u>g</u>		(dBm)	(dBm)		(W/kg)	
		0001/100 10			Test data(1						
Left cheek	10	QPSK 1RB_49	23130/711	1:1	0.049	0.08	24.35	25.00	1.161	0.056	22.1
Left tilted	10	QPSK 1RB_49	23130/711	1:1	0.003	-0.11	24.35	25.00	1.161	0.003	22.1
Right cheek	10	QPSK 1RB_49	23130/711	1:1	0.015	-0.02	24.35	25.00	1.161	0.017	22.1
Right tilted	10	QPSK 1RB_49	23130/711	1:1	0.003	-0.06	24.35	25.00	1.161	0.003	22.1
	4.0	0001/0500 05	00000/704		est data(50		00.40	04.00	4.000	0.040	00.4
Left cheek	10	QPSK 25RB_25		1:1	0.016	0.17	23.18	24.00	1.208	0.019	22.1
Left tilted	10	QPSK 25RB_25		1:1	0.002	0.11	23.18	24.00	1.208	0.002	22.1
Right cheek	10	QPSK 25RB_25		1:1	0.013	-0.18	23.18	24.00	1.208	0.016	22.1
Right tilted	10	QPSK 25RB_25		1:1	0.001	-0.04	23.18	24.00	1.208	0.001	22.1
Face California	40	ODOK 4DD 40	Body w		lata(Separ			05.00	4.404	0.000	00.4
Front side	10		23130/711	1:1	0.074	-0.11	24.35	25.00	1.161	0.086	22.1
Back side	10	QPSK 1RB_49	23130/711	1:1	0.082	0.08	24.35	25.00	1.161	0.095	22.1
Front side	10	ODOK OEDD OF			a (Separat			04.00	4.000	0.050	20.4
Front side	10	QPSK 25RB_25		1:1	0.048	-0.10	23.18	24.00	1.208	0.058	22.1
Back side	10	QPSK 25RB_25		1:1	0.056	-0.17	23.18	24.00	1.208	0.068	22.1
Front side	10	ODCK 4DD 40	Hotsp 23130/711		ta(Separat			25.00	1 101	0.000	20.4
Front side	10	QPSK 1RB_49		1:1	0.074	-0.11	24.35	25.00	1.161	0.086	22.1
Back side	10	QPSK 1RB_49	23130/711	1:1	0.082	0.08	24.35	25.00	1.161	0.095	22.1
Left side	10	QPSK 1RB_49	23130/711	1:1	0.056	0.18	24.35	25.00	1.161	0.065	22.1
Right side	10		23130/711	1:1	0.009	0.18	24.35	25.00	1.161	0.010	22.1
Bottom side	10	QPSK 1RB_49	23130/711	1:1	0.005	-0.06	24.35	25.00	1.161	0.006	22.1
Fuerat elele	40	ODOK OEDD OF	Hotspot		(Separate			04.00	4 000	0.050	20.4
Front side	10	QPSK 25RB_25		1:1	0.048	-0.10	23.18	24.00	1.208	0.058	22.1
Back side	10	QPSK 25RB_25		1:1	0.056	-0.17	23.18	24.00	1.208	0.068	22.1
Left side	10	QPSK 25RB_25		1:1	0.048	0.00	23.18	24.00	1.208	0.058	22.1
Right side Bottom side	10 10	QPSK 25RB_25 QPSK 25RB_25		1:1 1:1	0.006	-0.17 0.03	23.18 23.18	24.00 24.00	1.208 1.208	0.007 0.004	22.1 22.1
Bollom Side	10	QFSN ZSNB_ZS	23060/704		Test Reco		23.10	24.00	1.206	0.004	22.1
				AIII4	SAR		Conducted	Tune up		Scaled	
Test position	BW.	Test mode	Test	Duty	(W/kg) 1-	Power	Dower	Limit	Scaled	SAR	Liquid
rest position	D 111.	Test mode	Ch./Freq.	Cycle	a a	Drift (dB)	(dBm)	(dBm)	factor	(W/kg)	Temp
				Head ⁻	Test data(1	RB)	(0.2.11)	(0.211)		(======================================	
Left cheek	10	QPSK 1RB 25	23095/707.5		0.375	-0.12	23.95	24.50	1.135	0.426	22.1
Left tilted	10	QPSK 1RB 25			0.443	-0.17	23.95	24.50	1.135	0.503	22.1
Right cheek	10	QPSK 1RB 25			0.610	0.01	23.95	24.50	1.135	0.692	22.1
Right tilted	10	QPSK 1RB_25			0.498	0.13	23.95	24.50	1.135	0.565	22.1
U					est data(50						
Left cheek	10	QPSK 25RB_0	23130/711	1:1	0.317	0.00	23.40	24.00	1.148	0.364	22.1
Left tilted	10	QPSK 25RB_0	23130/711	1:1	0.352	-0.01	23.40	24.00	1.148	0.404	22.1
Right cheek	10	QPSK 25RB_0		1:1	0.399	0.14	23.40	24.00	1.148	0.458	22.1
Right tilted	10	QPSK 25RB_0		1:1	0.370	0.18	23.40	24.00	1.148	0.425	22.1
			Body worn T				Sensor on				
Front side	10	QPSK 1RB_25			0.188	0.17	23.95	24.50	1.135	0.213	22.1
Back side	10	QPSK 1RB_25			0.303	0.09	23.95	24.50	1.135	0.344	22.1
		Во	ody worn Tes	t data (Se	parate 10n	nm 50%RE	3) Sensor on				
Front side	10	QPSK 25RB_0	23130/711	1:1	0.134	0.10	23.40	24.00	1.148	0.154	22.1
Back side	10	QPSK 25RB_0		1:1	0.147	0.03	23.40	24.00	1.148	0.169	22.1
-			Body worn T			mm 1RB)			•		•
Front side	10	QPSK 1RB_49		1:1	0.145	-0.06	24.34	25.00	1.164	0.169	22.1
Back side	10	QPSK 1RB_49		1:1	0.215	-0.19	24.34	25.00	1.164	0.250	22.1
-			ody worn Tes						1	,	
Front side	10	QPSK 25RB_0		1:1	0.122	-0.15	23.40	24.00	1.148	0.140	22.1
Back side	10	QPSK 25RB_0	23130/711	1:1	0.132	0.19	23.40	24.00	1.148	0.152	22.1
		1	Hotspot Tes							1	
Front side	10	QPSK 1RB_49	23130/711	1:1	0.188	0.17	23.95	24.50	1.135	0.213	22.1



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Page : 99 of 132

Back side												
Hotspot Test data(Separate 10mm 50%RB) Sensor on Front side 10	Back side	10	QPSK 1RB_49	23130/711	1:1	0.303	0.09	23.95	24.50	1.135	0.344	22.1
Front side	Top side	10	QPSK 1RB_49	23130/711	1:1	0.133	-0.01	23.95	24.50	1.135	0.151	22.1
Back side			H	Hotspot Test	data(Sepa	rate 10mn	n 50%RB)	Sensor on				
Top side 10 QPSK 25RB_13 23060/704 1:1 0.095 -0.19 23.40 24.00 1.148 0.109 22.1 Hotspot Test data 1RB Sensor off Front side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.145 -0.06 24.34 25.00 1.164 0.169 22.1 Back side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.174 0.02 24.34 25.00 1.164 0.250 22.1 Left side-10mm 10 QPSK 1RB_49 23130/711 1:1 0.174 0.02 24.34 25.00 1.164 0.203 22.1 Right side-10mm 10 QPSK 1RB_49 23130/711 1:1 0.120 0.02 24.34 25.00 1.164 0.140 22.1 Top side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.120 0.02 24.34 25.00 1.164 0.140 22.1 Top side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.120 0.02 24.34 25.00 1.164 0.155 22.1 Hotspot Test data 50%RB Sensor off Front side-15mm 10 QPSK 25RB_0 23130/711 1:1 0.122 -0.15 23.40 24.00 1.148 0.140 22.1 Back side-15mm 10 QPSK 25RB_0 23130/711 1:1 0.122 -0.15 23.40 24.00 1.148 0.152 22.1 Left side-10mm 10 QPSK 25RB_13 23060/704 1:1 0.152 0.17 23.40 24.00 1.148 0.152 22.1 Right side-10mm 10 QPSK 25RB_13 23060/704 1:1 0.152 0.17 23.40 24.00 1.148 0.152 22.1 Top side-15mm 10 QPSK 25RB_13 23060/704 1:1 0.050 0.02 23.40 24.00 1.148 0.152 22.1 Right side-10mm 10 QPSK 25RB_13 23060/704 1:1 0.090 0.01 23.40 24.00 1.148 0.152 22.1 Top side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.048 0.01 23.40 24.00 1.148 0.121 22.1 Top side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.090 0.01 23.40 24.00 1.148 0.103 22.1 Head Test data at the worst case with Battery2# Left cheek 10 QPSK 1RB_49 23130/711 1:1 0.048 0.01 24.35 25.00 1.161 0.092 22.1 Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Hotspot Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_49 23130/711 1:1 0.009 0.01 23.95 24.50 1.135 0.681 22.1 Back side 10 QPSK 1RB_5 25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Back side 10 QPSK 1RB_5 25 23095/707.5 1:1 0.000 0.01 23.95 24.50 1.135 0.637 22.1 Hotspot Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_5 25 23095/707.5 1:1 0.000 0.01 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery	Front side	10	QPSK 25RB_13	23060/704		0.134	0.10	23.40	24.00	1.148	0.154	22.1
Hotspot Test data 1RB Sensor off Front side-15mm 10 QPSK 1RB_49 23130/711 1:1 0.145 -0.06 24.34 25.00 1.164 0.250 22.1	Back side	10	QPSK 25RB_13	23060/704		0.147	0.03	23.40	24.00	1.148		22.1
Front side-15mm	Top side	10	QPSK 25RB_13	23060/704	1:1	0.095	-0.19	23.40	24.00	1.148	0.109	22.1
Back side-15mm 10							Sensor off					
Left side-10mm	Front side-15mm		QPSK 1RB_49	23130/711		0.145	-0.06	24.34	25.00	1.164	0.169	
Right side-10mm 10	Back side-15mm	10	QPSK 1RB_49	23130/711	1:1	0.215	-0.19	24.34	25.00	1.164	0.250	22.1
Top side-15mm 10	Left side-10mm	10			1:1	0.174	0.02	24.34	25.00	1.164	0.203	22.1
Hotspot Test data 50%RB Sensor off Front side-15mm 10 QPSK 25RB_0 23130/711 1:1 0.122 -0.15 23.40 24.00 1.148 0.140 22.1	Right side-10mm					0.120		24.34	25.00	1.164	0.140	
Front side-15mm	Top side-15mm	10	QPSK 1RB_49						25.00	1.164	0.155	22.1
Back side-15mm					spot Test d	ata 50%RI	3 Sensor o	ff				
Left side-10mm 10 QPSK 25RB_13 23060/704 1:1 0.152 0.17 23.40 24.00 1.148 0.175 22.1 Right side-10mm 10 QPSK 25RB_13 23060/704 1:1 0.105 0.02 23.40 24.00 1.148 0.121 22.1 Top side-15mm 10 QPSK 25RB_13 23060/704 1:1 0.090 0.01 23.40 24.00 1.148 0.103 22.1 Ant1 Test Record Head Test data at the worst case with Battery2# Left cheek 10 QPSK 1RB_49 23130/711 1:1 0.048 0.01 24.35 25.00 1.161 0.055 22.1 Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Head Test data at the worst case with Battery2# Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek <td< td=""><td>Front side-15mm</td><td>10</td><td>QPSK 25RB_0</td><td>23130/711</td><td>1:1</td><td>0.122</td><td>-0.15</td><td>23.40</td><td>24.00</td><td>1.148</td><td>0.140</td><td>22.1</td></td<>	Front side-15mm	10	QPSK 25RB_0	23130/711	1:1	0.122	-0.15	23.40	24.00	1.148	0.140	22.1
Right side-10mm 10 QPSK 25RB_13 23060/704 1:1 0.105 0.02 23.40 24.00 1.148 0.121 22.1 Top side-15mm 10 QPSK 25RB_13 23060/704 1:1 0.090 0.01 23.40 24.00 1.148 0.103 22.1 Ant1 Test Record Head Test data at the worst case with Battery2# Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Hotspot Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135	Back side-15mm	10	QPSK 25RB_0	23130/711	1:1	0.132	0.19	23.40	24.00	1.148	0.152	22.1
Top side-15mm	Left side-10mm	10	QPSK 25RB_13	23060/704		0.152	0.17	23.40	24.00	1.148	0.175	
Head Test data at the worst case with Battery2#	Right side-10mm	10	QPSK 25RB_13	23060/704	1:1	0.105	0.02	23.40	24.00	1.148	0.121	22.1
Head Test data at the worst case with Battery2# Left cheek 10 QPSK 1RB_49 23130/711 1:1 0.048 0.01 24.35 25.00 1.161 0.055 22.1	Top side-15mm	10	QPSK 25RB_13	23060/704	1:1	0.090	0.01	23.40	24.00	1.148	0.103	22.1
Left cheek 10 QPSK 1RB_49 23130/711 1:1 0.048 0.01 24.35 25.00 1.161 0.055 22.1 Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Hotspot Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#					Ant1	Test Reco	ord					
Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Hotspot Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#												
Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Hotspot Test data at the worst case with Battery2# Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#	Left cheek	10	QPSK 1RB_49	23130/711	1:1	0.048	0.01	24.35	25.00	1.161	0.055	22.1
Hotspot Test data at the worst case with Battery2#												
Back side 10 QPSK 1RB_49 23130/711 1:1 0.079 0.11 24.35 25.00 1.161 0.092 22.1 Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#	Back side	10	QPSK 1RB_49						25.00	1.161	0.092	22.1
Ant4 Test Record Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#					st data at t	he worst c	ase with B	attery2#				
Head Test data at the worst case with Battery2# Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#	Back side	10	QPSK 1RB_49	23130/711				24.35	25.00	1.161	0.092	22.1
Right cheek 10 QPSK 1RB_25 23095/707.5 1:1 0.600 0.01 23.95 24.50 1.135 0.681 22.1 Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#												
Body worn Test data at the worst case with Battery2# Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#								ttery2#				
Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1 Hotspot Test data at the worst case with Battery2#	Right cheek	10					0.0.		24.50	1.135	0.681	22.1
Hotspot Test data at the worst case with Battery2#								,	T.	T.		
	Back side	10	QPSK 1RB_25				0.0		24.50	1.135	0.337	22.1
Back side 10 QPSK 1RB_25 23095/707.5 1:1 0.297 -0.04 23.95 24.50 1.135 0.337 22.1									T.	T.		
	Back side	10	QPSK 1RB_25	23095/707.5	1:1	0.297	-0.04	23.95	24.50	1.135	0.337	22.1

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



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Report No.: AR/2021/1000808

Page : 100 of 132

8.3.11SAR Result of LTE Band 17

			L			st Record					
				Ant1	Test Rec						
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- q	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head	Test data(1RB)					
Left cheek	10	QPSK 1RB_49	23800/711	1:1	0.049	0.08	24.22	25.00	1.197	0.058	22.1
Left tilted	10	QPSK 1RB_49	23800/711	1:1	0.002	-0.06	24.22	25.00	1.197	0.002	22.1
Right cheek	10	QPSK 1RB_49	23800/711	1:1	0.013	-0.16	24.22	25.00	1.197	0.016	22.1
Right tilted	10	QPSK 1RB_49	23800/711	1:1	0.001	0.12	24.22	25.00	1.197	0.001	22.1
				Head T	est data(50)%RB)					
Left cheek	10	QPSK 25RB_0	23800/711	1:1	0.015	0.14	23.18	24.00	1.208	0.018	22.1
Left tilted	10	QPSK 25RB_0	23800/711	1:1	0.001	0.05	23.18	24.00	1.208	0.001	22.1
Right cheek	10	QPSK 25RB_0		1:1	0.011	-0.18	23.18	24.00	1.208	0.013	22.1
Right tilted	10	QPSK 25RB_0		1:1	0.001	-0.11	23.18	24.00	1.208	0.001	22.1
			Body v	worn Test		rate 10mm	1RB)				
Front side	10	QPSK 1RB_49		1:1	0.071	0.05	24.22	25.00	1.197	0.085	22.1
Back side	10	QPSK 1RB_49		1:1	0.079	0.09	24.22	25.00	1.197	0.095	22.1
		_				te 10mm 5		ı		ľ	1
Front side	10	QPSK 25RB_0		1:1	0.048	-0.09	23.18	24.00	1.208	0.058	22.1
Back side	10	QPSK 25RB_0		1:1	0.057	-0.10	23.18	24.00	1.208	0.069	22.1
		T				te 10mm 1		1		1	1
Front side	10	QPSK 1RB_49		1:1	0.071	0.05	24.22	25.00	1.197	0.085	22.1
Back side	10	QPSK 1RB_49		1:1	0.079	0.09	24.22	25.00	1.197	0.095	22.1
Left side	10		23800/711	1:1	0.053	0.05	24.22	25.00	1.197	0.063	22.1
Right side	10		23800/711	1:1	0.008	-0.15	24.22	25.00	1.197	0.010	22.1
Bottom side	10	QPSK 1RB_49		1:1	0.005	0.06	24.22	25.00	1.197	0.006	22.1
		1				e 0mm 50%					
Front side	10	QPSK 25RB_0		1:1	0.048	-0.09	23.18	24.00	1.208	0.058	22.1
Back side	10			1:1	0.057	-0.10	23.18	24.00	1.208	0.069	22.1
Left side	10	QPSK 25RB_0		1:1	0.046	-0.04	23.18	24.00	1.208	0.056	22.1
Right side	10	QPSK 25RB_0		1:1	0.005	0.05	23.18	24.00	1.208	0.006	22.1
Bottom side	10	QPSK 25RB_0	23800/711	1:1	0.003	0.12	23.18	24.00	1.208	0.004	22.1
-		T		Ant	Test Rec		Conducted	Tuna un		Scaled	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	(W/kg) 1-		Power (dBm)	Tune up Limit (dBm)	Scaled factor	SAR (W/kg)	Liquid Temp
				Head	Test data(1RB)	(42)	(4.2)		(,9)	
Left cheek	10	QPSK 1RB 25	23780/709	1:1	0.383	0.04	23.75	24.50	1.189	0.455	22.1
Left tilted	10		23780/709	1:1	0.440	0.07	23.75	24.50	1.189	0.523	22.1
Right cheek	10		23780/709	1:1	0.600	0.01	23.75	24.50	1.189	0.713	22.1
Right tilted	10	QPSK 1RB_25	23780/709	1:1	0.501	-0.03	23.75	24.50	1.189	0.595	22.1
				Head T	est data(50)%RB)					
Left cheek	10	QPSK 25RB_25	23800/711	1:1	0.355	-0.17	23.34	24.00	1.164	0.413	22.1
Left tilted	10	QPSK 25RB_25	23800/711	1:1	0.403	0.02	23.34	24.00	1.164	0.469	22.1
Right cheek	10	QPSK 25RB_25	23800/711	1:1	0.443	0.04	23.34	24.00	1.164	0.516	22.1
Right tilted	10	QPSK 25RB_25	23800/711	1:1	0.409	0.07	23.34	24.00	1.164	0.476	22.1
			Body worn	Test data(\$	Separate 1	0mm 1RB)					
Front side	10	QPSK 1RB_25		1:1	0.181	0.05	23.75	24.50	1.189	0.215	22.1
Back side	10	QPSK 1RB_25			0.293	0.01	23.75	24.50	1.189	0.348	22.1
-				,	.'		B) Sensor or			1	1
Front side	10	QPSK 25RB_25		1:1	0.135	0.03	23.34	24.00	1.164	0.157	22.1
Back side	10	QPSK 25RB_25		1:1	0.151	-0.01	23.34	24.00	1.164	0.176	22.1
			Body worn							1	1 -
Front side	10	QPSK 1RB_25		1:1	0.154	0.12	24.33	25.00	1.167	0.180	22.1
Back side	10	QPSK 1RB_25		1:1	0.201	-0.14	24.33	25.00	1.167	0.235	22.1
							B) Sensor of			I a	
Front side	10	QPSK 25RB_0		1:1	0.125	0.17	23.30	24.00	1.175	0.147	22.1
	10	QPSK 25RB_0	123800/711	1:1	0.176	-0.06	23.30	24.00	1.175	0.207	22.1
Back side	10	QI OIX ZOIXD_0						24.00	1.170	0.201	
Front side	10	QPSK 1RB_25	Hotspot Te					24.50	1.189	0.215	22.1



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Report No.: AR/2021/1000808

Page : 101 of 132

Back side	10	QPSK 1RB_25 23780/709	1:1	0.293	0.01	23.75	24.50	1.189	0.348	22.1		
Top side	10	QPSK 1RB_25 23780/709	1:1	0.129	0.02	23.75	24.50	1.189	0.153	22.1		
		Hotspot Test	data(Sep	arate 10mr	m 50%RB)	Sensor on						
Front side	10	QPSK 25RB_25 23800/711	1:1	0.135	0.03	23.34	24.00	1.164	0.157	22.1		
Back side	10	QPSK 25RB_25 23800/711	1:1	0.151	-0.01	23.34	24.00	1.164	0.176	22.1		
Top side	10	QPSK 25RB_25 23800/711	1:1	0.109	-0.14	23.34	24.00	1.164	0.127	22.1		
Hotspot Test data 1RB Sensor off												
Front side-15mm	10	QPSK 1RB_25 23780/709	1:1	0.154	0.12	24.33	25.00	1.167	0.180	22.1		
Back side-15mm	10	QPSK 1RB_25 23780/709	1:1	0.201	-0.14	24.33	25.00	1.167	0.235	22.1		
Left side-10mm	10	QPSK 1RB_25 23780/709	1:1	0.167	0.01	24.33	25.00	1.167	0.195	22.1		
Right side-10mm	10	QPSK 1RB_25 23780/709	1:1	0.115	0.12	24.33	25.00	1.167	0.134	22.1		
Top side-15mm	10	QPSK 1RB_25 23780/709	1:1	0.079	-0.01	24.33	25.00	1.167	0.092	22.1		
Hotspot Test data 50%RB Sensor off												
Front side-15mm	10	QPSK 25RB_0 23800/711	1:1	0.125	0.17	23.30	24.00	1.175	0.147	22.1		
Back side-15mm	10	QPSK 25RB_0 23800/711	1:1	0.176	-0.06	23.30	24.00	1.175	0.207	22.1		
Left side-10mm	10	QPSK 25RB_0 23800/711	1:1	0.145	-0.11	23.30	24.00	1.175	0.170	22.1		
Right side-10mm	10	QPSK 25RB_0 23800/711	1:1	0.100	-0.10	23.30	24.00	1.175	0.117	22.1		
Top side-15mm	10	QPSK 25RB_0 23800/711	1:1	0.075	0.09	23.30	24.00	1.175	0.088	22.1		
			Ant1	Test Rec	ord							
					ase with Ba							
Left cheek	10	QPSK 1RB_49 23800/711	1:1	0.047	-0.09	24.22	25.00	1.197	0.056	22.1		
		Body worn	Test data a	at the wors	t case with	Battery2#						
Back side	10	QPSK 1RB_49 23800/711	1:1	0.074	-0.08	24.22	25.00	1.197	0.089	22.1		
		Hotspot Te	est data at	the worst	case with E	Battery2#						
Back side	10	QPSK 1RB_49 23800/711	1:1	0.074	-0.08	24.22	25.00	1.197	0.089	22.1		
			Ant4	Test Rec	ord							
					ase with Ba	attery2#						
Right cheek	10	QPSK 1RB_25 23780/709	1:1	0.590	0.06	23.75	24.50	1.189	0.701	22.1		
		Body worn						•				
Back side	10	QPSK 1RB_25 23780/709	1:1	0.281	-0.11	23.75	24.50	1.189	0.334	22.1		
		Hotspot Te			case with E	Battery2#						
Back side	10	QPSK 1RB_25 23780/709	1:1	0.281	-0.11	23.75	24.50	1.189	0.334	22.1		

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



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Report No.: AR/2021/1000808

Page : 102 of 132

8.3.12 SAR Result of LTE Band 38

			LTE		SAR Test						
				Ant1 T	est Recor	ď					
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
				Head Te	est data(1F	RB)					
Left cheek	20	QPSK 1RB_0	38150/2610	1:1.58	0.175	0.02	24.25	25.00	1.189	0.208	22.1
Left tilted	20	QPSK 1RB_0	38150/2610	1:1.58	0.169	0.14	24.25	25.00	1.189	0.201	22.1
Right cheek	20	QPSK 1RB_0	38150/2610	1:1.58	0.186	-0.03	24.25	25.00	1.189	0.221	22.1
Right tilted	20	QPSK 1RB_0	38150/2610	1:1.58	0.127	0.13	24.25	25.00	1.189	0.151	22.1
				Head Tes	st data(50%	6RB)					
Left cheek	20	QPSK 50RB 25	37850/2580	1:1.58	0.141	0.05	23.17	24.00	1.211	0.171	22.1
Left tilted	20	QPSK 50RB 25	37850/2580	1:1.58	0.142	-0.15	23.17	24.00	1.211	0.172	22.1
Right cheek	20	QPSK 50RB_25		1:1.58	0.172	-0.10	23.17	24.00	1.211	0.208	22.1
Right tilted	20	QPSK 50RB_25		1:1.58	0.101	-0.11	23.17	24.00	1.211	0.122	22.1
rtight tiltou	20		Body worn Te					24.00	1.211	0.122	22.1
Front side	20	QPSK 1RB_0	38150/2610	1:1.58	0.217	0.07	22.13	23.00	1.222	0.265	22.3
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.217	0.07	22.13	23.00	1.222	0.260	22.3
Dack Side	20							23.00	1.222	0.300	22.3
Eront side	20	QPSK 50RB_25	dy worn Test		0.221			22.00	1 2 4 7	0.276	22.2
Front side	20			1:1.58		0.14	22.04	23.00	1.247	0.276	22.3
Back side	20	QPSK 50RB_25		1:1.58	0.297	-0.04	22.04	23.00	1.247	0.370	22.3
			Body worn Te								
Front side	20	QPSK 1RB_0	38150/2610	1:1.58	0.225	-0.07	24.25	25.00	1.189	0.267	22.3
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.498	0.080	24.25	25.00	1.189	0.592	22.3
			dy worn Test								
Front side	20	QPSK 50RB_25		1:1.58	0.191	-0.10	23.17	24.00	1.211	0.231	22.3
Back side	20	QPSK 50RB_25	37850/2580	1:1.58	0.383	0.03	23.17	24.00	1.211	0.464	22.3
			Hotspot Test	data(Sepa	arate 10mr	n 1RB) Se	ensor on				
Front side	20	QPSK 1RB_0	38150/2610	1:1.58	0.217	0.07	22.13	23.00	1.222	0.265	22.3
Back side	20	QPSK 1RB_0	38150/2610	1:1.58	0.295	0.04	22.13	23.00	1.222	0.360	22.3
Bottom side	20	QPSK 1RB_0	38150/2610	1:1.58	0.278	-0.18	22.13	23.00	1.222	0.340	22.3
			lotspot Test d								
Front side	20	QPSK 50RB 25	37850/2580	1:1.58	0.221	0.14	22.04	23.00	1.247	0.276	22.3
Back side	20	QPSK 50RB_25	37850/2580	1:1.58	0.297	-0.04	22.04	23.00	1.247	0.370	22.3
Bottom side	20	QPSK 50RB 25	37850/2580	1:1.58	0.283	0.07	22.04	23.00	1.247	0.353	22.3
Bottom oldo		Q ON OUND_EO			data 1RB S		22.01	20.00	1.2.17	0.000	LL.U
Front side-15mm	20	QPSK 1RB 0	38150/2610	1:1.58	0.225	-0.07	24.25	25.00	1.189	0.267	22.3
Back side-15mm	20	QPSK 1RB_0	38150/2610	1:1.58	0.498	0.080	24.25	25.00	1.189	0.592	22.3
Left side-10mm	20	QPSK 1RB_0		1:1.58	0.498	0.050	24.25	25.00	1.189	0.126	22.3
Right side-10mm	20	QPSK 1RB_0	38150/2610 38150/2610	1:1.58	0.100	-0.19	24.25	25.00	1.189	0.126	22.3
J	20	QFSK IKB_U	36130/2610	1.1.36	0.102	-0.19	24.23	25.00	1.109	0.210	22.3
Bottom side -	20	QPSK 1RB_0	38150/2610	1:1.58	0.235	0.03	24.25	25.00	1.189	0.279	22.3
15mm			11-1	- 1 T 1 - 1-	1- F00/ DD	0					
Front cide 45	00	ODEK FORD OF			ta 50%RB			04.00	1 011	0.004	20.0
Front side-15mm	20	QPSK 50RB_25	37850/2580	1:1.58	0.191	-0.10	23.17	24.00	1.211	0.231	22.3
Back side-15mm	20	QPSK 50RB_25	37850/2580	1:1.58	0.383	0.03	23.17	24.00	1.211	0.464	22.3
Left side-10mm	20	QPSK 50RB_25		1:1.58	0.084	0.18	23.17	24.00	1.211	0.102	22.3
Right side-10mm	20	QPSK 50RB_25	37850/2580	1:1.58	0.150	0.07	23.17	24.00	1.211	0.182	22.3
Bottom side -	20	QPSK 50RB 25	37850/2580	1:1.58	0.189	0.03	23.17	24.00	1.211	0.229	22.3
15mm	20	QI OK SOND_23	37030/2300				20.17	24.00	1.211	0.223	22.0
				Ant4 1	est Recor	·d					
			Test	Duty	SAR	Power	Conducted	Tune up	Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
			Cil./Fieq.	Cycle	g	Dilit (ub)	(dBm)	(dBm)	iactor	(W/kg)	remp
				Head Te	est data(1F	RB)					
Left cheek	20	QPSK 1RB_50	37850/2580	1:1.58	0.160	-0.13	23.51	24.00	1.119	0.179	22.1
Left tilted	20	QPSK 1RB_50	37850/2580	1:1.58	0.196	-0.06	23.51	24.00	1.119	0.219	22.1
Right cheek	20	QPSK 1RB_50	37850/2580	1:1.58	0.392	0.13	23.51	24.00	1.119	0.439	22.1
Right tilted	20	QPSK 1RB 50	37850/2580	1:1.58	0.573	0.18	23.51	24.00	1.119	0.641	22.1
U					st data(50%				-		
Left cheek	20	QPSK 50RB_25	38150/2610	1:1.58	0.128	-0.08	23.48	24.00	1.127	0.144	22.1
Left tilted	20	QPSK 50RB_25		1:1.58	0.188	-0.16	23.48	24.00	1.127	0.212	22.1
Right cheek	20	QPSK 50RB_25		1:1.58	0.388	-0.03	23.48	24.00	1.127	0.437	22.1
Algin Check	20	Tel OI 2017D_23	00100/2010	1.1.50	0.000	0.00	20.40	۷٦.٥٥	1.141	0.731	44.1



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Report No.: AR/2021/1000808

Page : 103 of 132

Right tilted	20	QPSK 50RB_25 3	20150/2610	1.1 50	0.452	-0.16	23.48	24.00	1.127	0.509	22.1	
Right tilted	20	IGFOR JUND_2J			ta(Separat			24.00	1.127	0.509	22.1	
Front side	20	QPSK 1RB 50 3	37850/2580	1:1.58	0.052	-0.02	23.51	24.00	1.119	0.058	22.3	
Back side	20		37850/2580	1:1.58	0.286	0.08	23.51	24.00	1.119	0.320	22.3	
24011 0140		<u> </u>	Body worn							0.020		
Front side	20	QPSK 50RB_25 3		1:1.58	0.052	0.00	23.48	24.00	1.127	0.059	22.3	
Back side	20	QPSK 50RB_25 3	38150/2610	1:1.58	0.160	0.13	23.48	24.00	1.127	0.180	22.3	
			Hotspot	Test data	(Separate	10mm 1R	B)					
Front side	20		37850/2580	1:1.58	0.052	-0.02	23.51	24.00	1.119	0.058	22.3	
Back side	20	QPSK 1RB_50 3	37850/2580	1:1.58	0.286	0.08	23.51	24.00	1.119	0.320	22.3	
Left side	20	QPSK 1RB_50 3	37850/2580	1:1.58	0.046	0.03	23.51	24.00	1.119	0.051	22.3	
Right side	20		37850/2580	1:1.58	0.005	0.07	23.51	24.00	1.119	0.006	22.3	
Top side	20	QPSK 1RB_50	37850/2580	1:1.58	0.073	0.00	23.51	24.00	1.119	0.082	22.3	
					Separate 1	0mm 50%						
Front side	20		38150/2610	1:1.58	0.052	0.00	23.48	24.00	1.127	0.059	22.3	
Back side	20	QPSK 50RB_25 3		1:1.58	0.160	0.13	23.48	24.00	1.127	0.180	22.3	
Left side	20	QPSK 50RB_25 3		1:1.58	0.043	0.03	23.48	24.00	1.127	0.048	22.3	
Right side	20	QPSK 50RB_25 3		1:1.58	0.004	0.16	23.48	24.00	1.127	0.005	22.3	
Top side	20	QPSK 50RB_25 3	38150/2610	1:1.58	0.075	-0.19	23.48	24.00	1.127	0.085	22.3	
					est Recor							
			Head Test of					ı	T.	ı	1	
Right cheek	20		38150/2610	1:1.58	0.180	0.06	24.25	25.00	1.189	0.214	22.1	
Right cheek	20		37850/2580 8048/2599.8	1:1.58	0.168	0.01	24.13	25.00	1.222	0.205	22.1	
			ody worn Tes	st data at t	he worst o	ase with B	atterv2#	l	l	l		
Back side	20		38150/2610	1:1.58	0.487	-0.05	24.25	25.00	1.189	0.579	22.3	
		PCC QPSK 1_0 3										
Back side	20	SCC QPSK 1_0 3		1:1.58	0.433	0.01	24.13	25.00	1.222	0.529	22.3	
			Hotspot Test		e worst ca	se with Ba	ttery2#					
Back side-15mm	20		38150/2610	1:1.58	0.487	-0.05	24.25	25.00	1.189	0.579	22.3	
Back side	20	PCC QPSK 1_0		1:1.58	0.433	0.01	24.13	25.00	1.222	0.529	22.3	
		SCC QPSK 1_0 3	6046/2599.6	Ant I T	est Recor	d						
			Head Test of				on/2#					
Right tilted	20	QPSK 1RB_50 3	37850/2580	1:1.58	0.566	-0.08	23.51	24.00	1.119	0.634	22.1	
		PCC QPSK 1_50										
Right tilted	20	SCC QPSK 1_0 3	8048/2599.8	1:1.58	0.519	0.01	23.43	24.00	1.140	0.592	22.1	
			ody worn Tes					ı	1	ı	1	
Back side	20	QPSK 1RB_50 3		1:1.58	0.275	0.03	23.51	24.00	1.119	0.308	22.3	
Back side	20	PCC QPSK 1_50 3		1:1.58	0.255	0.05	23.43	24.00	1.140	0.291	22.3	
Hotspot Test data at the worst case with Battery2#												
Back side	20		37850/2580	1:1.58	0.275	0.03	23.51	24.00	1.119	0.308	22.3	
Back side	20	PCC QPSK 1_50 3	37850/2580	1:1.58	0.255	0.05	23.43	24.00	1.140	0.291	22.3	
		1300 GESK 1_0 B	0040/2099.8					l	l	l	i	

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



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Report No.: AR/2021/1000808

Page : 104 of 132

8.3.13 SAR Result of LTE Band 41

Left cheek 20				L.		11 SAR Te						
Test position					Ant1		ord	I				
Test Holds				Test	Dutv		Power			Scaled		Liquid
Left theek 20	Test position	BW.	Test mode									
Left tinked					-	g		(dBm)	(dBm)		(W/kg)	
Left titled	 		1				, ,	1				
Right titled 20												
Right titled 20								+				
Head Test data(50%RB) Left theek 20												
Left cheek 20	Right tilted	20	QPSK 1RB_99	40620/2593				24.38	25.00	1.153	0.053	22.1
Left tilled 20	 		I===:/====					1				
Right tilted												
Right tilled 20												
Front side 20	J											
Front side 20	Right tilted	20							24.00	1.146	0.044	22.1
Back side 20									ľ		ľ	
Front side 20												
Front side 20	Back side	20								1.321	0.330	22.3
Back side 20											1	
Body worn Test data(Separate 15mm 1RB) Sensor off												22.3
Front side 20	Back side	20							22.50	1.324	0.489	22.3
Back side 20						Separate 15	5mm 1RB)					
Body worn Test data (Separate 15mm 50%RB) Sensor off		20							25.00	1.153		22.3
Front side 20	Back side	20								1.153	0.574	22.3
Back side 20						parate 15n	nm 50%RE	Sensor off	f			
Hotspot Test data(Separate 10mm 1RB) Sensor on												22.3
Front side	Back side	20	QPSK 50RB_25						24.00	1.146	0.459	22.3
Back side 20						parate 10n	nm 1RB) S	Sensor on				
Bottom side 20	Front side	20	QPSK 1RB_99	40620/2593		0.194	-0.09	21.29	22.50	1.321	0.256	22.3
Hotspot Test data(Separate 10mm 50%RB) Sensor on Sensor of S	Back side	20	QPSK 1RB_99	40620/2593			-0.19	21.29	22.50	1.321	0.330	22.3
Front side	Bottom side	20	QPSK 1RB_99	40620/2593	1:1	0.244	0.15	21.29	22.50	1.321	0.322	22.3
Back side 20							n 50%RB)					
Bottom side 20											0.368	22.3
Hotspot Test data 1RB Sensor off	Back side	20				0.369	0.03		22.50	1.324	0.489	22.3
Front side-15mm 20 QPSK 1RB_99 40620/2593 1:1 0.498 0.07 24.38 25.00 1.153 0.269 22.3 Back side-15mm 20 QPSK 1RB_99 40620/2593 1:1 0.498 0.07 24.38 25.00 1.153 0.574 22.3 Right side-10mm 20 QPSK 1RB_99 40620/2593 1:1 0.193 0.19 24.38 25.00 1.153 0.119 22.3 Bottom side - 15mm 20 QPSK 1RB_99 40620/2593 1:1 0.183 0.19 24.38 25.00 1.153 0.211 22.3 Bottom side - 15mm 20 QPSK 1RB_99 40620/2593 1:1 0.230 -0.10 24.38 25.00 1.153 0.211 22.3 Bottom side - 15mm 20 QPSK 1RB_99 40620/2593 1:1 0.230 -0.10 24.38 25.00 1.153 0.211 22.3 Bottom side - 15mm 20 QPSK 50RB_25 39750/2506 1:1 0.230 -0.10 24.38 25.00 1.153 0.265 22.3 Back side-15mm 20 QPSK 50RB_25 39750/2506 1:1 0.198 0.19 23.41 24.00 1.146 0.227 22.3 Back side-15mm 20 QPSK 50RB_25 39750/2506 1:1 0.401 0.07 23.41 24.00 1.146 0.459 22.3 Betti side-10mm 20 QPSK 50RB_25 39750/2506 1:1 0.401 0.07 23.41 24.00 1.146 0.499 22.3 Right side-10mm 20 QPSK 50RB_25 39750/2506 1:1 0.187 0.17 23.41 24.00 1.146 0.165 22.3 Bottom side - 15mm 20 QPSK 50RB_25 39750/2506 1:1 0.187 0.17 23.41 24.00 1.146 0.214 22.3 Bottom side - 15mm 20 QPSK 50RB_25 39750/2506 1:1 0.187 0.17 23.41 24.00 1.146 0.165 22.3 Bottom side - 15mm 20 QPSK 50RB_25 39750/2506 1:1 0.187 0.17 23.41 24.00 1.146 0.165 22.3 Bottom side - 15mm 20 QPSK 50RB_25 39750/2506 1:1 0.187 0.17 23.41 24.00 1.089 0.132 22.1 Left cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.121 -0.02 23.63 24.00 1.089 0.132 22.1 Left tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.121 -0.02 23.63 24.00 1.089 0.306 22.1 Right cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.281 0.12 23.63 24.00 1.089 0.309 22.1 Head Test data(500RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.160 0.00 23.61 24.00 1.094 0.196 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.00 23.61 24.00 1.094 0.196 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1	Bottom side	20	QPSK 50RB_50						22.50	1.324	0.327	22.3
Back side-15mm 20						t data 1RB	Sensor of	f				
Left side-10mm 20	Front side-15mm								25.00	1.153	0.269	22.3
Right side-10mm	Back side-15mm	20	QPSK 1RB_99	40620/2593		0.498	0.07	24.38	25.00	1.153	0.574	22.3
Bottom side - 15mm		20					-0.19	24.38	25.00			22.3
Hotspot Test data 50%RB Sensor off	Right side-10mm	20	QPSK 1RB_99	40620/2593	1:1	0.183	0.19	24.38	25.00	1.153	0.211	22.3
Hotspot Test data 50%RB Sensor off	Bottom side -	20	ODSK 1DB 00	40620/2502	1.1	0.220	0.10	24.29	25.00	1 152	0.265	22.2
Front side-15mm 20	15mm	20	QFSK IKB_99						23.00	1.155	0.203	22.3
Back side-15mm 20					spot Test of		B Sensor of	off				
Left side-10mm 20	Front side-15mm					0.198	0.19	23.41	24.00	1.146	0.227	22.3
Right side-10mm 20								+				22.3
Bottom side						1						22.3
Test position	Right side-10mm	20	QPSK 50RB_25	39750/2506	1:1	0.144	0.03	23.41	24.00	1.146	0.165	22.3
Test position		20	OPSK 50RB 25	39750/2506	1.1	0 187	0.17	23 41	24 00	1 146	0.214	22.3
Test position BW. Test mode Test Ch./Freq. Duty Cycle SAR (W/kg) 1- prift (dB) Power (dBm) Conducted Fower (dBm) Tune up Limit (dBm) Scaled factor (W/kg) Scaled factor (W/kg) Liqui Temple Head Test data(1RB) Left cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.121 -0.02 23.63 24.00 1.089 0.132 22.1 Left tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.180 0.04 23.63 24.00 1.089 0.196 22.1 Right cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.281 0.12 23.63 24.00 1.089 0.306 22.1 Right tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.366 -0.07 23.63 24.00 1.089 0.399 22.1 Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00	15mm	20	QI OIT SOITE_25	33730/2300				20.41	24.00	1.140	0.214	22.0
Test position BW. Test mode Test Ch./Freq. Duty Cycle (W/kg) 1- prift (dB) Power (dBm) Limit (dBm) Sare (w/kg) Tequity Left cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.121 -0.02 23.63 24.00 1.089 0.132 22.1 Right cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.281 0.12 23.63 24.00 1.089 0.306 22.1 Right tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.366 -0.07 23.63 24.00 1.089 0.399 22.1 Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left theek 20 QPSK 50RB_50 41490/2680 1:1.58 0.179					Ant4		ord					
Test mode				Test	Duty		Power			Scaled		Liquid
Head Test data(1RB)	Test position	BW.	Test mode			(W/kg) 1-						
Left cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.121 -0.02 23.63 24.00 1.089 0.132 22.1 Left tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.180 0.04 23.63 24.00 1.089 0.196 22.1 Right cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.281 0.12 23.63 24.00 1.089 0.306 22.1 Right tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.366 -0.07 23.63 24.00 1.089 0.399 22.1 Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1				J.1., 1041	-	g		(dBm)	(dBm)	143101	(W/kg)	· Only
Left tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.180 0.04 23.63 24.00 1.089 0.196 22.1 Right cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.281 0.12 23.63 24.00 1.089 0.306 22.1 Right tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.366 -0.07 23.63 24.00 1.089 0.399 22.1 Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1	<u> </u>		12222			,			T -		T -	_
Right cheek 20 QPSK 1RB_50 39750/2506 1:1.58 0.281 0.12 23.63 24.00 1.089 0.306 22.1 Right tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.366 -0.07 23.63 24.00 1.089 0.399 22.1 Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1								+				
Right tilted 20 QPSK 1RB_50 39750/2506 1:1.58 0.366 -0.07 23.63 24.00 1.089 0.399 22.1 Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1								+				
Head Test data(50%RB) Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1												22.1
Left cheek 20 QPSK 50RB_50 41490/2680 1:1.58 0.120 0.00 23.61 24.00 1.094 0.131 22.1 Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1	Right tilted	20	QPSK 1RB_50	39750/2506					24.00	1.089	0.399	22.1
Left tilted 20 QPSK 50RB_50 41490/2680 1:1.58 0.179 0.13 23.61 24.00 1.094 0.196 22.1							,		1		1	
								+				22.1
Dight cheek 20 IOPSK 50PR 50N140N/268N 1:4 58 0.276 0.40 22.64 24.00 4.004 0.202 22.4												22.1
הוקות הופפה בט קבר אר טטרים_טטן די 1.30 בייט 1.300 בייט און בייט אר אינט 1.094 בייט 1.094 בייט און הופפה בייט און 1.094 בייט און 1.0	Right cheek	20	QPSK 50RB_50	41490/2680	1:1.58	0.276	-0.10	23.61	24.00	1.094	0.302	22.1



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Report No.: AR/2021/1000808

Page : 105 of 132

1		1		i	1	•	i	1	1	•		
Right tilted	20	QPSK 50RB_50 41490/2680		0.451	0.05	23.61	24.00	1.094	0.493	22.1		
		Body worn Te					1		1			
Front side	20	QPSK 1RB_50 39750/2506	1:1	0.053	0.07	23.63	24.00	1.089	0.058	22.3		
Back side	20	QPSK 1RB_50 39750/2506	1:1	0.157	-0.04	23.63	24.00	1.089	0.171	22.3		
		Body worn Tes	,			<u> </u>						
Front side	20	QPSK 50RB_50 41490/2680	1:1	0.055	0.12	23.61	24.00	1.094	0.060	22.3		
Back side	20	QPSK 50RB_50 41490/2680	1:1	0.229	0.04	23.61	24.00	1.094	0.251	22.3		
Hotspot Test data(Separate 10mm 1RB) Sensor on												
Front side	20	QPSK 1RB_50 39750/2506	1:1	0.053	0.07	23.63	24.00	1.089	0.058	22.3		
Back side	20	QPSK 1RB_50 39750/2506	1:1	0.157	-0.04	23.63	24.00	1.089	0.171	22.3		
Left side	20	QPSK 1RB_50 39750/2506	1:1	0.057	0.08	23.63	24.00	1.089	0.062	22.3		
Right side	20	QPSK 1RB_50 39750/2506	1:1	0.010	0.18	23.63	24.00	1.089	0.011	22.3		
Top side	20	QPSK 1RB_50 39750/2506	1:1	0.126	0.08	23.63	24.00	1.089	0.137	22.3		
Hotspot Test data(Separate 10mm 50%RB) Sensor on												
Front side	20	QPSK 50RB_50 41490/2680	1:1	0.055	0.12	23.61	24.00	1.094	0.060	22.3		
Back side	20	QPSK 50RB_50 41490/2680	1:1	0.229	0.04	23.61	24.00	1.094	0.251	22.3		
Left side	20	QPSK 50RB_50 41490/2680	1:1	0.043	0.16	23.61	24.00	1.094	0.047	22.3		
Right side	20	QPSK 50RB_50 41490/2680	1:1	0.008	-0.17	23.61	24.00	1.094	0.009	22.3		
Top side	20	QPSK 50RB_50 41490/2680	1:1	0.128	0.12	23.61	24.00	1.094	0.140	22.3		
		· · · · · · · · · · · · · · · · · · ·	Ant1	Test Reco	ord							
		Head Tes	t data at th	ne worst ca	se with Ba	ttery2#						
Right cheek	20	QPSK 1RB_99 40620/2593	1:1.58	0.102	0.08	24.38	25.00	1.153	0.118	22.1		
		Body worn T	est data a	t the worst	case with	Battery2#						
Back side	20	QPSK 1RB_99 40620/2593	1:1	0.487	-0.10	24.38	25.00	1.153	0.562	22.3		
		Hotspot Te	st data at	the worst o	ase with B	attery2#	•					
Back side-15mm	20	QPSK 1RB_99 40620/2593	1:1	0.487	-0.10	24.38	25.00	1.153	0.562	22.3		
			Ant4	Test Reco	ord			,				
Head Test data at the worst case with Battery2#												
Right tilted	20	QPSK 50RB_50 41490/2680	1:1.58	0.446	0.08	23.61	24.00	1.094	0.488	22.1		
_		Body worn T	est data a	t the worst	case with	Battery2#						
Back side	20	QPSK 50RB_50 41490/2680	1:1	0.220	-0.16	23.61	24.00	1.094	0.241	22.3		
'		Hotspot Te	st data at	the worst o	ase with B	attery2#	•		•			
Back side	20	QPSK 50RB_50 41490/2680	1:1	0.220	-0.16	23.61	24.00	1.094	0.241	22.3		
				•	•		•	•	•			

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



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Report No.: AR/2021/1000808

Page : 106 of 132

8.3.14 SAR Result of LTE Band 66

			LT		6 SAR Tes						
				Ant1	Test Reco	ord	C = 1 = 1	T		Caalad	
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
		T ==== - 1			est data(1						
Left cheek	20		132322/1745	1:1	0.082	0.04	24.36	25.00	1.159	0.095	22.2
Left tilted	20		132322/1745	1:1	0.062	-0.01	24.36	25.00	1.159	0.072	22.2
Right cheek Right tilted	20 20		132322/1745 132322/1745	1:1 1:1	0.128 0.069	0.01 0.16	24.36 24.36	25.00 25.00	1.159 1.159	0.148 0.080	22.2 22.2
Right tilled	20	QFSK IKB_U	132322/1743		st data(50		24.30	23.00	1.159	0.000	22.2
Left cheek	20	QPSK 50RB 25	132072/1720	1:1	0.069	0.06	23.46	24.00	1.132	0.078	22.2
Left tilted	20	QPSK 50RB 25		1:1	0.049	-0.13	23.46	24.00	1.132	0.055	22.2
Right cheek	20	QPSK 50RB_25		1:1	0.076	0.12	23.46	24.00	1.132	0.086	22.2
Right tilted	20	QPSK 50RB 25		1:1	0.056	0.00	23.46	24.00	1.132	0.063	22.2
<u> </u>		_	Body worn Te								
Front side	20	QPSK 1RB_0		1:1	0.257	-0.06	20.61	21.00	1.094	0.281	22.3
Back side	20	QPSK 1RB_0	132322/1745	1:1	0.414	0.15	20.61	21.00	1.094	0.453	22.3
			ody worn Test	t data (Se	parate 10m	nm 50%RE					
Front side	20	QPSK 50RB_25		1:1	0.269	-0.13	20.63	21.00	1.089	0.293	22.3
Back side	20	QPSK 50RB_25		1:1	0.430	-0.07	20.63	21.00	1.089	0.468	22.3
		,	Body worn Te							1	
Front side	20	QPSK 1RB_0		1:1	0.362	0.09	24.36	25.00	1.159	0.419	22.3
Back side	20	QPSK 1RB_0		1:1	0.473	0.10	24.36	25.00	1.159	0.548	22.3
			ody worn Test						4 400	0.400	00.0
Front side	20	QPSK 50RB_25		1:1	0.380	-0.06	23.46	24.00	1.132	0.430	22.3
Back side	20	QPSK 50RB_25		1:1	0.463	0.08	23.46	24.00	1.132	0.524	22.3
Front side	20	QPSK 1RB_0	Hotspot Tes 132322/1745	1:1	0.257	-0.06	20.61	21.00	1.094	0.281	22.3
Back side	20		132322/1745	1:1	0.237	0.15	20.61	21.00	1.094	0.453	22.3
Bottom side	20		132322/1745	1:1	0.527	-0.11	20.61	21.00	1.094	0.433	22.3
Dottom side	20		Hotspot Test					21.00	1.054	0.511	22.0
Front side	20	QPSK 50RB_25		1:1	0.269	-0.13	20.63	21.00	1.089	0.293	22.3
Back side	20	QPSK 50RB_25		1:1	0.430	-0.07	20.63	21.00	1.089	0.468	22.3
Bottom side	20	QPSK 50RB_25		1:1	0.543	0.07	20.63	21.00	1.089	0.591	22.3
			Hot	spot Test	data 1RB	Sensor off					
Front side-15mm	20	QPSK 1RB_0	132322/1745	1:1	0.362	0.09	24.36	25.00	1.159	0.419	22.3
Back side-15mm	20		132322/1745	1:1	0.473	0.10	24.36	25.00	1.159	0.548	22.3
Left side-10mm	20		132322/1745	1:1	0.066	-0.10	24.36	25.00	1.159	0.076	22.3
Right side-10mm	20	QPSK 1RB_0	132322/1745	1:1	0.131	-0.06	24.36	25.00	1.159	0.152	22.3
Bottom side - 15mm	20	QPSK 1RB_0		1:1	0.550	-0.15	24.36	25.00	1.159	0.637	22.3
				pot Test d	ata 50%RI						
Front side-15mm	20	QPSK 50RB_25		1:1	0.380	-0.06	23.46	24.00	1.132	0.430	22.3
Back side-15mm	20	QPSK 50RB_25		1:1	0.463	0.08	23.46	24.00	1.132	0.524	22.3
Left side-10mm	20	QPSK 50RB_25		1:1	0.055	0.19	23.46	24.00	1.132	0.062	22.3
Right side-10mm	20	QPSK 50RB_25	132322/1745	1:1	0.109	-0.03	23.46	24.00	1.132	0.123	22.3
Bottom side - 15mm	20	QPSK 50RB_25	132322/1745	1:1	0.530	-0.18	23.46	24.00	1.132	0.600	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power Drift (dB)	(abiii)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp
		1 ===:/ == '	Limbs Tes	, ,							
Bottom side	20	QPSK 1RB_0	132322/1745	1:1	1.680	-0.14	20.61	21.00	1.094	1.838	22.3
Datter 11	00	DDOL FORD 3-	Limbs Test o					04.00	4.000	0.045	00.0
Bottom side	20	QPSK 50RB_25		1:1	1.850	0.19	20.63	21.00	1.089	2.015	22.3
Bottom side	20	QPSK 50RB_25		1:1	1.860	-0.03	20.60	21.00	1.096	2.039	22.3
Bottom side	20	QPSK 50RB_25		1:1	1.770	-0.07	20.57	21.00	1.104	1.954	22.3
Bottom side	20	QPSK 100RB_0	Limbs Test d		1.790			21.00	1.127	2.018	22.2
DULIUM SIGE	20	MLOV INNED_0	132312/11/0	1:1 Ant4	Test Reco	0.06	20.48	∠1.00	1.121	2.010	22.3
Test position	BW.	Test mode	Test	Duty	SAR		Conducted	Tune up	Scaled	Scaled	Liquid



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Report No.: AR/2021/1000808

Page : 107 of 132

			Ch./Freq.	Cycle	. –,	Drift (dB)		Limit	factor	SAR	Temp
				llaad 7	g Fact data(4	DD)	(dBm)	(dBm)		(W/kg)	
l aft als a als	00	ODCK ADD A	400000/4745		Test data(1		00.07	04.50	4.450	0.404	20.0
Left cheek	20 20	QPSK 1RB_0		1:1	0.168 0.226	-0.17	23.87 23.87	24.50 24.50	1.156 1.156	0.194 0.261	22.2 22.2
Left tilted	_	QPSK 1RB_0		1:1		0.12					
Right cheek	20	QPSK 1RB_0		1:1 1:1	0.199	-0.10	23.87	24.50	1.156	0.230	22.2
Right tilted	20	QPSK 1RB_0	132322/1745		0.275	-0.05	23.87	24.50	1.156	0.318	22.2
l aft ala ala		DDCK FODD, OF	400000/4745		est data(50		00.00	04.00	4 454	0.400	20.0
Left cheek Left tilted	20 20	QPSK 50RB_25 QPSK 50RB 25		1:1 1:1	0.163 0.224	-0.07 0.13	23.39 23.39	24.00 24.00	1.151 1.151	0.188 0.258	22.2 22.2
									_		
Right cheek	20	QPSK 50RB_25		1:1	0.196	-0.10	23.39	24.00	1.151	0.226	22.2
Right tilted	20	QPSK 50RB_25		1:1	0.254	0.11	23.39	24.00	1.151	0.292	22.2
Form to take	00	ODOK ADD A	Body worn Te					04.50	4.450	0.004	00.0
Front side	20	QPSK 1RB_0		1:1	0.055	-0.02	23.87	24.50	1.156	0.064	22.3
Back side	20	QPSK 1RB_0		1:1	0.110	0.05	23.87	24.50	1.156	0.127	22.3
			ody worn Test						1 4 4 5 4	0.000	00.0
Front side	20	QPSK 50RB_25		1:1	0.054	-0.09	23.39	24.00	1.151	0.062	22.3
Back side	20	QPSK 50RB_25		1:1	0.102	0.15	23.39	24.00	1.151	0.117	22.3
		0001/400	Hotspot Tes					0.4.50	1.450	0.004	00.0
Front side	20		132322/1745	1:1	0.055	-0.02	23.87	24.50	1.156	0.064	22.3
Back side	20		132322/1745	1:1	0.110	0.05	23.87	24.50	1.156	0.127	22.3
Left side	20	QPSK 1RB_0		1:1	0.020	0.07	23.87	24.50	1.156	0.023	22.3
Right side	20	QPSK 1RB_0		1:1	0.010	0.09	23.87	24.50	1.156	0.012	22.3
Top side	20	QPSK 1RB_0		1:1	0.131	-0.06	23.87	24.50	1.156	0.151	22.3
			Hotspot Test								
Front side	20	QPSK 50RB_25		1:1	0.054	-0.09	23.39	24.00	1.151	0.062	22.3
Back side	20	QPSK 50RB_25		1:1	0.102	0.15	23.39	24.00	1.151	0.117	22.3
Left side	20	QPSK 50RB_25		1:1	0.016	0.11	23.39	24.00	1.151	0.018	22.3
Right side	20	QPSK 50RB_25		1:1	0.009	-0.03	23.39	24.00	1.151	0.010	22.3
Top side	20	QPSK 50RB_25	132322/1745	1:1	0.118	0.18	23.39	24.00	1.151	0.136	22.3
					Test Reco						
		T ==== -	Head Test								
Right cheek	20	QPSK 1RB_0		1:1	0.122	-0.10	24.36	25.00	1.159	0.141	22.2
	ı	T = = = = = =	Body worn Te					ľ			
Back side	20	QPSK 1RB_0		1:1	0.465	-0.16	24.36	25.00	1.159	0.539	22.3
		1	Hotspot Tes	st data at	the worst c	ase with B	attery2#	ſ	1	r	
Bottom side - 15mm	20	QPSK 1RB_0	132572/1770	1:1	0.547	-0.08	24.36	25.00	1.159	0.634	22.3
					Test Reco						
, <u>-</u>			Head Test			se with Ba	ttery2#				
Right tilted	20	QPSK 1RB_0		1:1	0.271	0.07	23.87	24.50	1.156	0.313	22.2
			Body worn Te			case with I					
Back side	20	QPSK 1RB_0	132322/1745	1:1	0.102	0.02	23.87	24.50	1.156	0.118	22.3
			Hotspot Tes		the worst o	ase with Ba	attery2#				
Top side	20	QPSK 1RB_0	132322/1745	1:1	0.128	0.04	23.87	24.50	1.156	0.148	22.3
F 1 1 04 04		TE Band 66 for									

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



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Report No.: AR/2021/1000808

Page : 108 of 132

8.3.15 SAR Result of 5G NR n7

			5G		AR Test F						
				Ant1 T	est Recor		1	_			
				Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
					g		(dBm)	(dBm)		(W/kg)	
		T===:::======	I		est Data(1F		1				
Left cheek	20	QPSK 1RB_53	502000/2510	1:1	0.203	-0.12	24.42	25.00	1.143	0.232	22.1
Left tilted	20	QPSK 1RB_53	502000/2510	1:1	0.224	0.06	24.42	25.00	1.143	0.256	22.1
Right cheek	20	QPSK 1RB_53		1:1	0.316	0.10	24.42	25.00	1.143	0.361	22.1
Right tilted	20	QPSK 1RB_53	502000/2510	1:1	0.146	0.04	24.42	25.00	1.143	0.167	22.1
		1			t Data(50%		1				
Left cheek	20	QPSK 50RB_28		1:1	0.209	-0.03	24.45	25.00	1.135	0.237	22.1
Left tilted	20	QPSK 50RB_28		1:1	0.231	0.08	24.45	25.00	1.135	0.262	22.1
Right cheek	20	QPSK 50RB_28		1:1	0.332	0.10	24.45	25.00	1.135	0.377	22.1
Right tilted	20	QPSK 50RB_28		1:1	0.149	0.08	24.45	25.00	1.135	0.169	22.1
		10001/100	Body worn Tes								
Front side	20	QPSK 1RB_53		1:1	0.188	-0.16	19.81	20.50	1.172	0.220	22.1
Back side	20	QPSK 1RB_53		1:1	0.250	0.17	19.81	20.50	1.172	0.293	22.1
			ody worn Test								~~ :
Front side	20	QPSK 50RB_0		1:1	0.233	0.11	19.94	20.50	1.138	0.265	22.1
Back side	20	QPSK 50RB_0		1:1	0.333	0.16	19.94	20.50	1.138	0.379	22.1
		lono:::	Body worn Tes								
Front side	20	QPSK 1RB_53		1:1	0.346	-0.01	24.42	25.00	1.143	0.395	22.3
Back side	20	QPSK 1RB_53		1:1	0.376	-0.10	24.42	25.00	1.143	0.430	22.3
			ody worn Test o							1	
Front side	20	QPSK 50RB_28		1:1	0.355	-0.10	24.45	25.00	1.135	0.403	22.3
Back side	20	QPSK 50RB_28		1:1	0.587	0.07	24.45	25.00	1.135	0.666	22.3
		T = = = = =	Hotspot Test							T	
Front side	20	QPSK 1RB_53		1:1	0.188	-0.16	19.81	20.50	1.172	0.220	22.3
Back side	20	QPSK 1RB_53		1:1	0.250	0.17	19.81	20.50	1.172	0.293	22.3
Bottom side	20	QPSK 1RB_53		1:1	0.175	0.14	19.81	20.50	1.172	0.205	22.3
			Hotspot Test da								
Front side	20	QPSK 50RB_0		1:1	0.233	0.11	19.94	20.50	1.138	0.265	22.3
Back side	20	QPSK 50RB_0		1:1	0.333	0.16	19.94	20.50	1.138	0.379	22.3
Bottom side	20	QPSK 50RB_0		1:1	0.230	0.06	19.94	20.50	1.138	0.262	22.3
		T===:::======			lata 1RB S		1				
Front side-15mm	20	QPSK 1RB_53		1:1	0.346	-0.01	24.42	25.00	1.143	0.395	22.3
Back side-15mm	20	QPSK 1RB_53	502000/2510	1:1	0.376	-0.10	24.42	25.00	1.143	0.430	22.3
Left side-10mm	20	QPSK 1RB_53		1:1	0.024	0.06	24.42	25.00	1.143	0.027	22.3
Right side-10mm	20	QPSK 1RB_53	502000/2510	1:1	0.091	-0.05	24.42	25.00	1.143	0.104	22.3
Bottom side -	20	QPSK 1RB_53	502000/2510	1:1	0.258	-0.07	24.42	25.00	1.143	0.295	22.3
15mm										***	
E		0001/ 5000 00			ta 50%RB			05.00	4.405	0.400	00.0
Front side-15mm	20	QPSK 50RB_28		1:1	0.355	-0.10	24.45	25.00	1.135	0.403	22.3
Back side-15mm	20	QPSK 50RB_28		1:1	0.587	0.07	24.45	25.00	1.135	0.666	22.3
Left side-10mm	20	QPSK 50RB_28		1:1	0.026	0.03	24.45	25.00	1.135	0.030	22.3
Right side-10mm	20	QPSK 50RB_28	502000/2510	1:1	0.103	0.18	24.45	25.00	1.135	0.117	22.3
Bottom side -	20	QPSK 50RB_28	502000/2510	1:1	0.287	0.08	24.45	25.00	1.135	0.326	22.3
15mm											
				Ant4 T	est Recor	a	0	T		Carlad	
Toot no sition	DIM	Took was als	Test	Duty	SAR	Power	Conducted		Scaled	Scaled	Liquid
Test position	BW.	Test mode	Ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor	SAR	Temp
					9		(dBm)	(dBm)		(W/kg)	
Left cheek	20	QPSK 1RB_53	502000/2510	1:1	est data(1F 0.187	0.15	23.17	24.00	1 211	0.226	22.1
Left tilted	20 20	QPSK 1RB_53		1:1	0.187	0.15	23.17	24.00 24.00	1.211 1.211	0.226	22.1
Right cheek					0.255	0.08	23.17				
Right tilted	20 20	QPSK 1RB_53 QPSK 1RB_53		1:1 1:1	0.633	0.16	23.17	24.00 24.00	1.211 1.211	0.628	22.1 22.1
right tilted	20	JUFON IKD_53			t data(50%		23.17	24.00	1.211	0.766	ZZ. I
Loft chook	20	ODSK ENDD 30					22.20	24.00	1 170	0.225	22.4
Left cheek Left tilted	20	QPSK 50RB_28 QPSK 50RB_28		1:1	0.191	0.10	23.29	24.00 24.00	1.178	0.225	22.1
	20 20	QPSK 50RB_28		1:1 1:1	0.255 0.534	0.10	23.29	24.00	1.178 1.178	0.300	22.1
Right cheek	20	MENU DUKD_28	JUZUUU/2510	1.1	0.534	0.01	23.29	∠4.00	1.170	0.029	22.1



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Report No.: AR/2021/1000808

Page : 109 of 132

Right tilted	20	QPSK 50RB_28 502000/2510	1:1	0.790	-0.03	23.29	24.00	1.178	0.930	22.1
Right tilted	20	QPSK 50RB_28 507000/2535	1:1	0.758	-0.07	23.23	24.00	1.194	0.905	22.1
Right tilted	20	QPSK 50RB_28 502000/2510	1:1	0.749	-0.09	23.17	24.00	1.211	0.907	22.1
		Body worn Tes	t data(Se	parate 10m	nm 1RB) S	ensor on				
Front side	20	QPSK 1RB_53 502000/2510	1:1	0.045	0.08	19.82	20.50	1.169	0.053	22.3
Back side	20	QPSK 1RB_53 502000/2510	1:1	0.128	0.05	19.82	20.50	1.169	0.150	22.3
		Body worn Test of	data (Sepa	arate 10mn	n 50%RB)	Sensor on				•
Front side	20	QPSK 50RB_28 502000/2510	1:1	0.051	-0.10	20.04	20.50	1.112	0.057	22.3
Back side	20	QPSK 50RB_28 502000/2510	1:1	0.131	0.10	20.04	20.50	1.112	0.146	22.3
		Body worn Tes	t data(Se	parate 15m	nm 1RB) S	ensor off				
Front side	20	QPSK 1RB_53 502000/2510	1:1	0.041	0.03	23.17	24.00	1.211	0.050	22.3
Back side	20	QPSK 1RB_53 502000/2510	1:1	0.127	-0.05	23.17	24.00	1.211	0.154	22.3
Back side	20	QPSK 1RB_53 502000/2510	1:1	0.126	0.05	23.17	24.00	1.211	0.153	22.3
		Body worn Test of	data (Sepa	arate 15mn	n 50%RB)	Sensor off				•
Front side	20	QPSK 50RB_28 502000/2510	1:1	0.053	0.12	23.29	24.00	1.178	0.062	22.3
Back side	20	QPSK 50RB_28 502000/2510	1:1	0.129	0.04	23.29	24.00	1.178	0.152	22.3
		Hotspot Test	data(Sepa	arate 10mn	n 1RB) Se	nsor on				
Front side	20	QPSK 1RB_53 502000/2510	1:1	0.045	0.08	19.82	20.50	1.169	0.053	22.3
Back side	20	QPSK 1RB_53 502000/2510	1:1	0.128	0.05	19.82	20.50	1.169	0.150	22.3
Top side	20	QPSK 1RB_53 502000/2510	1:1	0.103		19.82	20.50	1.169	0.120	22.3
		Hotspot Test da	ata(Separa	ate 10mm	50%RB) S					
Front side	20	QPSK 50RB_28 502000/2510	1:1	0.051	-0.10	20.04	20.50	1.112	0.057	22.3
Back side	20	QPSK 50RB_28 502000/2510	1:1	0.131	0.10	20.04	20.50	1.112	0.146	22.3
Top side	20	QPSK 50RB_28 502000/2510	1:1	0.108	0.03	20.04	20.50	1.112	0.120	22.3
			pot Test d	ata 1RB S						
Front side-15mm	20	QPSK 1RB_53 502000/2510	1:1	0.041	0.03	23.17	24.00	1.211	0.050	22.3
Back side-15mm	20	QPSK 1RB_53 502000/2510	1:1	0.127	-0.05	23.17	24.00	1.211	0.154	22.3
Left side-10mm	20	QPSK 1RB_53 502000/2510	1:1	0.082	-0.12	23.17	24.00	1.211	0.099	22.3
Right side-10mm	20	QPSK 1RB_53 502000/2510	1:1	0.033	-0.15	23.17	24.00	1.211	0.040	22.3
Top side -15mm	20	QPSK 1RB_53 502000/2510	1:1	0.119	-0.14	23.17	24.00	1.211	0.144	22.3
				ta 50%RB						
Front side-15mm	20	QPSK 50RB_28 502000/2510	1:1	0.053	0.12	23.29	24.00	1.178	0.062	22.3
Back side-15mm	20	QPSK 50RB_28 502000/2510	1:1	0.129	0.04	23.29	24.00	1.178	0.152	22.3
Left side-10mm	20	QPSK 50RB_28 502000/2510	1:1	0.084	-0.11	23.29	24.00	1.178	0.099	22.3
Right side-10mm	20	QPSK 50RB_28 502000/2510	1:1	0.035	0.01	23.29	24.00	1.178	0.041	22.3
Top side -15mm	20	QPSK 50RB_28 502000/2510	1:1	0.124	-0.04	23.29	24.00	1.178	0.146	22.3
				est Recor						
B: 1. 1		Head Test of					25.22	4.405	0.074	00.4
Right cheek	20	QPSK 50RB_28 502000/2510	1:1	0.327	-0.07	24.45	25.00	1.135	0.371	22.1
Death in		Body worn Tes					05.00	4.405	0.054	00.0
Back side	20	QPSK 50RB_28 502000/2510	1:1	0.576	-0.08	24.45	25.00	1.135	0.654	22.3
D		Hotspot Test					05.00	4 4 2 =	0.0-1	00.0
Back side-15mm	20	QPSK 50RB_28 502000/2510	1:1	0.576	-0.08	24.45	25.00	1.135	0.654	22.3
		Hazdren		est Recor		- m ·O.44				
Dialet tilte el	200	Head Test of					04.00	4.470	0.004	00.4
Right tilted	20	QPSK 50RB_28 502000/2510	1:1	0.785	0.15	23.29	24.00	1.178	0.924	22.1
Dool, side	20	Body worn Tes					04.00	4 044	0.440	00.0
Back side	20	QPSK 1RB_53 502000/2510	1:1	0.121	0.07	23.17	24.00	1.211	0.146	22.3
Dook olds 45-s-		Hotspot Test					24.00	1 011	0.440	20.0
Back side-15mm	20	QPSK 1RB_53 502000/2510	1:1	0.121	0.07	23.17	24.00	1.211	0.146	22.3

Table 25: SAR of 5G NR n7 for Head and Body.



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Report No.: AR/2021/1000808

Page : 110 of 132

8.3.16 SAR Result of 5G NR n38

					38 SAR Te							
Test position	BW.	Test mode	Test ch./Freq.		t1 Test Re SAR (W/kg) 1- g		Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp	
				Head	d Test Data	(1RB)						
Left cheek	20	QPSK 1RB_53	516000/2580	1:1	0.189	0.05	24.31	25.00	1.172	0.222	22.1	
Left tilted	20	QPSK 1RB_53	516000/2580	1:1	0.204	0.03	24.31	25.00	1.172	0.239	22.1	
Right cheek	20	QPSK 1RB_53	516000/2580	1:1	0.410	0.09	24.31	25.00	1.172	0.481	22.1	
Right tilted	20	QPSK 1RB_53	516000/2580	1:1	0.096	0.16	24.31	25.00	1.172	0.113	22.1	
	Head Test Data(50%RB)											
Left cheek	20	QPSK 50RB_28	522000/2610	1:1	0.188	0.06	24.30	25.00	1.175	0.221	22.1	
Left tilted	20	QPSK 50RB_28	522000/2610	1:1	0.208	-0.06	24.30	25.00	1.175	0.244	22.1	
Right cheek	20	QPSK 50RB_28	522000/2610	1:1	0.265	0.10	24.30	25.00	1.175	0.311	22.1	
Right tilted	20	QPSK 50RB_28	522000/2610	1:1	0.103	0.08	24.30	25.00	1.175	0.121	22.1	
			Body worn	Test data	(Separate	10mm 1RB	3) Sensor on					
Front side	20	QPSK 1RB_53	522000/2610	1:1	0.240	-0.07	20.92	22.00	1.282	0.308	22.1	
Back side	20	QPSK 1RB_53	522000/2610	1:1	0.319	0.07	20.92	22.00	1.282	0.409	22.1	
			Body worn T	est data(S	Separate 10)mm 50%R	(B) Sensor or	1				
Front side	20	QPSK 50RB_56	522000/2610	1:1	0.242	-0.08	20.89	22.00	1.291	0.312	22.1	
Back side	20	QPSK 50RB_56	522000/2610	1:1	0.321	-0.05	20.89	22.00	1.291	0.414	22.1	
			Body worn	Test data	(Separate	15mm 1RB	3) Sensor off					
Front side	20	QPSK 1RB_53	516000/2580	1:1	0.360	0.05	24.31	25.00	1.172	0.422	22.3	
Back side	20	QPSK 1RB_53	516000/2580	1:1	0.460	-0.07	24.31	25.00	1.172	0.539	22.3	
Body worn Test data (Separate 15mm 50%RB) Sensor off												
			Body worn 16	est data (S	Separate 15	mm 50%k	(B) Sensor of	Ť				

Body worn Test data (Separate 15mm 50%RB) Sensor off													
Front side	20	QPSK 25RB 13		est data (S 1:1	0.358	0.13	24.30	25.00	1.175	0.421	22.3		
Back side	_	QPSK 25RB_13		1:1	0.338	0.13	24.30	25.00	1.175	0.503	22.3		
Dack Side	20	QF3N Z3ND_13)mm 1RB)		25.00	1.175	0.505	22.3		
Front side	20	QPSK 1RB 53	522000/2610	1:1	0.240	-0.07	20.92	22.00	1.282	0.308	22.3		
Back side	20			1:1	0.319	0.07	20.92	22.00	1.282	0.409	22.3		
Bottom side	20	QPSK 1RB 53		1:1	0.316	-0.06	20.92	22.00	1.282	0.405	22.3		
				st data(Se	parate 10n	nm 50%RB) Sensor on						
Front side	20	QPSK 50RB_56	522000/2610	1:1	0.242	-0.08	20.89	22.00	1.291	0.312	22.3		
Back side	20	QPSK 50RB_56	522000/2610	1:1	0.321	-0.05	20.89	22.00	1.291	0.414	22.3		
Bottom side	20	QPSK 50RB_56	522000/2610	1:1	0.279	-0.16	21.39	22.00	1.151	0.321	22.3		
			F	lotspot Te	st data 1R	B Sensor o	ff						
Front side-15mm 20 QPSK 1RB_53 516000/2580 1:1 0.360 0.05 24.31 25.00 1.172 0.422 22.3													
Back side-15mm	20	QPSK 1RB_53		1:1	0.460	-0.07	24.31	25.00	1.172	0.539	22.3		
Left side-10mm	20	QPSK 1RB_53	516000/2580	1:1	0.031	0.16	24.31	25.00	1.172	0.036	22.3		
Right side-10mm	20	QPSK 1RB_53	516000/2580	1:1	0.297	0.05	24.31	25.00	1.172	0.348	22.3		
Bottom side - 15mm	20	QPSK 1RB_53	516000/2580	1:1	0.316	0.09	24.31	25.00	1.172	0.370	22.3		
			Ho	tspot Test	data 50%	RB Sensor	off			•			
Front side-15mm	20	QPSK 50RB_28	522000/2610	1:1	0.358	0.13	24.30	25.00	1.175	0.421	22.3		
Back side-15mm	20	QPSK 50RB_28	522000/2610	1:1	0.428	0.18	24.30	25.00	1.175	0.503	22.3		
Left side-10mm	20	QPSK 50RB_28	522000/2610	1:1	0.026	-0.07	24.30	25.00	1.175	0.031	22.3		
Right side-10mm	20	QPSK 50RB_28	522000/2610	1:1	0.233	-0.13	24.30	25.00	1.175	0.274	22.3		
Bottom side - 15mm	20	QPSK 50RB_28	522000/2610	1:1	0.308	0.17	24.30	25.00	1.175	0.362	22.3		
				Ant	4 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 (W/kg)	Liquid Temp		
	Head Test Data(1RB)												
Left cheek	20	QPSK 1RB_53	522000/2610	1:1	0.188	-0.14	22.96	23.50	1.132	0.213	22.1		
Left tilted	20	QPSK 1RB_53		1:1	0.222	-0.06	22.96	23.50	1.132	0.251	22.1		
Right cheek	20	QPSK 1RB_53		1:1	0.519	-0.07	22.96	23.50	1.132	0.588	22.1		
Right tilted	20	QPSK 1RB_53	522000/2610	1:1	0.607	-0.12	22.96	23.50	1.132	0.687	22.1		
		T	,		Test Data(,			ı			
Left cheek	20	QPSK 50RB_56	522000/2610	1:1	0.182	-0.10	23.16	23.50	1.081	0.197	22.1		



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Report No.: AR/2021/1000808

Page : 111 of 132

Left tilted	20	QPSK 50RB_56	522000/2610	1:1	0.224	0.06	23.16	23.50	1.081	0.242	22.1
Right cheek	20	QPSK 50RB_56		1:1	0.524	-0.08	23.16	23.50	1.081	0.567	22.1
Right tilted	20	QPSK 50RB_56	522000/2610	1:1	0.629	0.15	23.16	23.50	1.081	0.680	22.1
			Body worn	Test data	(Separate	10mm 1RB	3) Sensor on				
Front side	20	QPSK 1RB_53	522000/2610	1:1	0.065	-0.07	21.70	22.50	1.202	0.078	22.3
Back side	20	QPSK 1RB_53	522000/2610	1:1	0.325	-0.02	21.70	22.50	1.202	0.391	22.3
		I .	Body worn Te	est data (S	Separate 10	0mm 50%R	(B) Sensor or	<u> </u>	I		
Front side	20	QPSK 50RB 28		1:1	0.062	0.09	21.78	22.50	1.180	0.073	22.3
Back side	20	QPSK 50RB_28	516000/2580	1:1	0.180	-0.10	21.78	22.50	1.180	0.212	22.3
			Body worn	Test data	(Separate	15mm 1RB) Sensor off				
Front side	20	QPSK 1RB_53	522000/2610	1:1	0.042	-0.07	22.96	23.50	1.132	0.048	22.3
Back side	20	QPSK 1RB_53	522000/2610	1:1	0.096	-0.16	22.96	23.50	1.132	0.109	22.3
			Body worn Te	est data (S	Separate 15	5mm 50%R	(B) Sensor of	f			
Front side	20	QPSK 50RB_56		1:1	0.044	0.13	23.16	23.50	1.081	0.048	22.3
Back side	20	QPSK 50RB_56		1:1	0.099	0.18	23.16	23.50	1.081	0.107	22.3
			Hotspot T	est data(S	eparate 10	mm 1RB)	Sensor on				
Front side	20	QPSK 1RB_53	522000/2610	1:1	0.065	-0.07	21.70	22.50	1.202	0.078	22.3
Back side	20	QPSK 1RB_53	522000/2610	1:1	0.325	-0.02	21.70	22.50	1.202	0.391	22.3
Top side	20	QPSK 1RB_53	522000/2610	1:1	0. 133	0.06	21.70	22.50	1.202	0.160	22.3
,			Hotspot Tes	st data(Se	parate 10n	nm 50%RB) Sensor on		<u>l</u>		
Front side	20	QPSK 50RB 28		1:1	0.062	0.09	21.78	22.50	1.180	0.073	22.3
Back side	20	QPSK 50RB_28	516000/2580	1:1	0.180	-0.10	21.78	22.50	1.180	0.212	22.3
Top side	20	QPSK 50RB_28		1:1	0.136	-0.15	21.78	22.50	1.180	0.161	22.3
		_	ŀ	lotspot Te	st data 1R	B Sensor o	ff		•		
Front side-15mm	20	QPSK 1RB_53	522000/2610	1:1	0.042	-0.07	22.96	23.50	1.132	0.048	22.3
Back side-15mm	20	QPSK 1RB_53	522000/2610	1:1	0.096	-0.16	22.96	23.50	1.132	0.109	22.3
Left side-10mm	20	QPSK 1RB_53		1:1	0.101	-0.02	22.96	23.50	1.132	0.114	22.3
Right side-10mm	20	QPSK 1RB_53	522000/2610	1:1	0.031	-0.01	22.96	23.50	1.132	0.035	22.3
Top side -15mm	20	QPSK 1RB_53		1:1	0.081	-0.13	22.96	23.50	1.132	0.092	22.3
		1				RB Sensor			•		
Front side-15mm		QPSK 50RB_56		1:1	0.044	0.13	23.16	23.50	1.081	0.048	22.3
Back side-15mm		QPSK 50RB_56		1:1	0.099	0.18	23.16	23.50	1.081	0.107	22.3
Left side-10mm		QPSK 50RB_56		1:1	0.106	-0.06	23.16	23.50	1.081	0.115	22.3
Right side-10mm		QPSK 50RB_56		1:1	0.032	-0.08	23.16	23.50	1.081	0.035	22.3
Top side -15mm	20	QPSK 50RB_56	522000/2610	1:1	0.075	0.17	23.16	23.50	1.081	0.081	22.3
			U T.		1 Test Re) - II O II				
Dight shash	20	ODCK 4DD 50				case with E		25.00	4 470	0.470	22.4
Right cheek	20	QPSK 1RB_53		1:1	0.403	-0.16	24.31 h Battery2#	25.00	1.172	0.472	22.1
Back side	20	QPSK 1RB 53		1:1	0.455	-0.03	24.31	25.00	1.172	0.533	22.3
Dack Side	20	UCON IND_33				t case with		20.00	1.172	0.000	22.3
Back side-15mm	20	QPSK 1RB_53		1:1	0.455	-0.03	24.31	25.00	1.172	0.533	22.3
Dack Side-Torrill		GLOW HVD_00	010000/2000		4 Test Re		27.01	20.00	1.114	0.000	22.0
			Head Te			case with E	Battery2#				
Right tilted	20	QPSK 1RB 53		1:1	0.600	-0.03	22.96	23.50	1.132	0.679	22.1
		C.: 11.D_00					h Battery2#	_0.00		0.070	
Back side	20	QPSK 1RB 53		1:1	0.314	0.05	21.70	22.50	1.202	0.378	22.3
						t case with					
Back side	20	QPSK 1RB_53		1:1	0.314	0.05	21.70	22.50	1.202	0.378	22.3
		5C ND 520 f				•				•	

Table 26: SAR of 5G NR n38 for Head and Body.



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Report No.: AR/2021/1000808

Page : 112 of 132

8.3.17 SAR Result of 5G NR n41

Test position BW. Test mode Test ch./Freq. Duty Over (W/kg) 1- print; (ds) Conducted Tune up Scaled SAR SAR Power (W/kg) 1- print; (ds) Conducted Tune up Conducted Conduc				5	G NR N4	1 SAR Tes	st Record					
Test position BW					Ant1		ord					
Left cheek 100 GPSK 1RB 137 B09202/2546.01 1:1 0.243 0.01 24.25 25.00 1:189 0.299 22.1	Test position	BW.	Test mode	Test ch./Freq.		(W/kg) 1-		Power	Limit		SAR	
Left titled					Head	Test Data(1RB)					
Right tilbed 100 OPSK 1RB 13F 809202/2546.01 1:1 0.415 -0.09 24.25 25.00 1.189 0.493 22.1												
Right littled												
Head Test Data(60%RB)												
Left ticheek	Right tilted	100	QPSK 1RB_137	509202/2546.01				24.25	25.00	1.189	0.172	22.1
Left tilled		100	0001/ 40500 00	500000/0540.04				04.00	05.00	4 454	0.074	00.4
Right Lines 100 CPSK 135RB 69509202/2546.01 1:1 0.403 0.03 24.39 25.00 1.151 0.464 22.1												
Right tilled												
Front side												
Front side 100 QPSK 1RB, 137 \$23302/2616.51 1:1 0.324 -0.01 20.36 21.00 1.159 0.260 22.1	Right tilled	100	QPSK ISSKB_09						25.00	1.131	0.155	22.1
Back side 100 QPSK 13SRB 69 528000/2640 1:1 0.304 -0.17 20.36 21.00 1.159 0.352 22.1	Front side	100	OPSK 1RB 137						21.00	1 150	0.260	22.1
Front side 100 DPSK 135RB 69 528000/2640 1:1 0.218 0.08 20.42 21.00 1.143 0.249 22.1												
Front side	Baok side	100	QI OR IND_107							1.100	0.002	22.1
Back side	Front side	100	QPSK 135RB 69							1.143	0.249	22.1
Front side												
Front side												
Back side 100 QPSK 1RB 137 S0920/2/2546.01 1:1 0.577 -0.09 24.25 25.00 1.189 0.686 22.3	Front side	100	QPSK 1RB 137						25.00	1.189	0.450	22.3
Back side 100 QPSK 1RB 137 513900/2569.5 1:1 0.541 -0.09 24.15 25.00 1.216 0.658 22.3		100	QPSK 1RB_137	509202/2546.01	1:1		-0.09					
Back side 100 QPSK 1RB 137 \$23302/2616.51 1:1 0.539 -0.09 24.15 25.00 1.216 0.656 22.3	Back side	100	QPSK 1RB_137	513900/2569.5		0.541	-0.09	24.15	25.00	1.216	0.658	22.3
Back side	Back side	100	QPSK 1RB_137	518598/2592.99	1:1	0.523	-0.09	24.23	25.00	1.194	0.624	22.3
Body worn Test data (Separate 15mm 50%RB) Sensor of	Back side	100	QPSK 1RB_137	523302/2616.51	1:1		-0.09		25.00	1.216	0.656	22.3
Front side	Back side	100	QPSK 1RB_137	528000/2640	1:1	0.512	-0.09	24.15	25.00	1.216	0.623	22.3
Back side 100 QPSK 135RB_69 509202/2546.01 1:1 0.436 0.14 24.39 25.00 1.151 0.502 22.3												
Hotspot Test data(Separate 10mm 1RB) Sensor on Sen	Front side											
Front side	Back side	100	QPSK 135RB_69						25.00	1.151	0.502	22.3
Back side 100 QPSK 1RB_137 523302/2616.51 1:1 0.304 -0.17 20.36 21.00 1.159 0.352 22.3											•	
Bottom side 100 QPSK 1RB_137 523302/2616.51 1:1 0.237 -0.13 24.39 21.00 0.458 0.109 22.3												
Hotspot Test data(Separate 10mm 50%RB) Sensor on												
Front side	Bottom side	100	QPSK 1RB_137						21.00	0.458	0.109	22.3
Back side	Frant aida	100	ODCK 12EDD CO						24.00	1 1 1 2	0.240	22.4
Bottom side 100 QPSK 135RB_69523302/2616.51 1:1 0.221 0.16 20.42 21.00 1.143 0.253 22.3												
Hotspot Test data 1RB Sensor off												
Front side-15mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.379 -0.11 24.25 25.00 1.189 0.450 22.3 Back side-15mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.577 -0.09 24.25 25.00 1.189 0.686 22.3 Left side-10mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.028 0.05 24.25 25.00 1.189 0.033 22.3 Right side-10mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.282 0.11 24.25 25.00 1.189 0.033 22.3 Bottom side - 15mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.319 -0.04 24.25 25.00 1.189 0.335 22.3 Hotspot Test data 50%RB Sensor off Front side-15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.390 0.06 24.39 25.00 1.151 0.449 22.3 Back side-15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.436 0.14 24.39 25.00 1.151 0.502 22.3 Right side-10mm 100 QPSK 135RB_69509202/2546.01 1:1 0.229 0.14 24.39 25.00 1.151 0.303 22.3 Right side-10mm 100 QPSK 135RB_69509202/2546.01 1:1 0.285 -0.16 24.39 25.00 1.151 0.328 22.3 Bottom side - 15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.285 -0.16 24.39 25.00 1.151 0.328 22.3 Right side-10mm 100 QPSK 135RB_69509202/2546.01 1:1 0.285 -0.16 24.39 25.00 1.151 0.373 22.3 Bottom side - 15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.324 -0.04 24.39 25.00 1.151 0.373 22.3 Bottom side - 15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.285 -0.16 24.39 25.00 1.151 0.373 22.3 Bottom side - 15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.224 22.1 Left cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.282 22.1 Right cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.598 22.1	Dollom Side	100	QFON 133ND_08						21.00	1.143	0.233	22.3
Back side-15mm 100 QPSK 1RB_137 50920/2546.01 1:1 0.577 -0.09 24.25 25.00 1.189 0.686 22.3	Front side-15mm	100	OPSK 1RB 137						25.00	1 189	0.450	22.3
Left side-10mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.028 0.05 24.25 25.00 1.189 0.033 22.3												
Right side-10mm 100 QPSK 1RB_137 509202/2546.01 1:1 0.282 0.11 24.25 25.00 1.189 0.335 22.3												
Bottom side - 100												
Hotspot Test data 50%RB Sensor off	Bottom side -											
Front side-15mm 100 QPSK 135RB_69509202/2546.01 1:1 0.390 0.06 24.39 25.00 1.151 0.449 22.3	HIIIIGI	l			not Tost						<u> </u>	
Back side-15mm 100 QPSK 135RB_69 509202/2546.01 1:1 0.436 0.14 24.39 25.00 1.151 0.502 22.3	Front eido 15mm	100	UDSK 13EDB EU						25.00	1 151	0.440	22.3
Left side-10mm 100 QPSK 135RB_69 509202/2546.01 1:1 0.029 0.14 24.39 25.00 1.151 0.033 22.3 Right side-10mm 100 QPSK 135RB_69 509202/2546.01 1:1 0.285 -0.16 24.39 25.00 1.151 0.328 22.3 Bottom side - 15mm 100 QPSK 135RB_69 509202/2546.01 1:1 0.324 -0.04 24.39 25.00 1.151 0.373 22.3 Ant4 Test Record Test position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1- Frequit (dB) Conducted Power (dBm) Tune up Limit (dBm) Scaled SAR (W/kg) Scaled SAR (W/kg) Liquid Temp Head Test Data(1RB) Left cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.200 -0.17 22.50 23.00 1.122 0.224 22.1 Left tilted 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1												
Right side-10mm 100 QPSK 135RB_69 509202/2546.01 1:1 0.285 -0.16 24.39 25.00 1.151 0.328 22.3												
Bottom side												
Test position	Bottom side -		_									
Test position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1- grift (dB) Power (dBm) Conducted Power (dBm) Tune up (dBm) Scaled factor (W/kg) Scaled SAR (W/kg) Liquid Temp Head Test Data(1RB) Left cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.200 -0.17 22.50 23.00 1.122 0.224 22.1 Left tilted 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.282 22.1 Right cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.533 -0.15 22.50 23.00 1.122 0.282 22.1	15mm			730202/2040.01					20.00		3.07.0	
Test position BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 1- prift (dB) Power (dBm) Limit (dBm) Scaled factor (dBm) SAR (W/kg) Liquid Temp Left cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.200 -0.17 22.50 23.00 1.122 0.224 22.1 Left tilted 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.282 22.1 Right cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.533 -0.15 22.50 23.00 1.122 0.598 22.1								Conducted	Tune up	Carlad	Scaled	Lincolat
Head Test Data(1RB)	Test position	BW.	Test mode	Test ch./Freq.	_	(W/kg) 1-		Power	Limit		SAR	_
Left cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.200 -0.17 22.50 23.00 1.122 0.224 22.1 Left tilted 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.282 22.1 Right cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.533 -0.15 22.50 23.00 1.122 0.598 22.1					Head		1RB)					
Left tilted 100 QPSK 1RB_137 509202/2546.01 1:1 0.251 -0.01 22.50 23.00 1.122 0.282 22.1 Right cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.533 -0.15 22.50 23.00 1.122 0.598 22.1	Left cheek	100	QPSK 1RB 137	509202/2546.01				22.50	23.00	1.122	0.224	22.1
Right cheek 100 QPSK 1RB_137 509202/2546.01 1:1 0.533 -0.15 22.50 23.00 1.122 0.598 22.1												



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Report No.: AR/2021/1000808

Page : 113 of 132

Right tilted	100	QPSK	1RB_137	513900/2569.5	1:1	0.628	-0.01	22.37	23.00	1.156	0.726	22.1
Right tilted	100	QPSK	1RB_137	518598/2592.99	1:1	0.628	-0.01	22.39	23.00	1.151	0.723	22.1
Right tilted	100	QPSK	1RB_137	523302/2616.51	1:1	0.628	-0.01	22.33	23.00	1.167	0.733	22.1
Right tilted	100	QPSK	1RB_137	528000/2640	1:1	0.628	-0.01	22.28	23.00	1.180	0.741	22.1
					Head	Test Data(5)	0%RB)					
Left cheek				513900/2569.5	1:1	0.245	-0.02	22.63	23.00	1.089	0.267	22.1
Left tilted				513900/2569.5	1:1	0.310	-0.04	22.63	23.00	1.089	0.338	22.1
Right cheek				513900/2569.5	1:1	0.550	-0.01	22.63	23.00	1.089	0.599	22.1
Right tilted				513900/2569.5	1:1	0.746	-0.05	22.63	23.00	1.089	0.812	22.1
Right tilted				509202/2546.01	1:1	0.558	0.17	22.39	23.00	1.151	0.642	22.1
Right tilted				518598/2592.99		0.719	0.09	22.49	23.00	1.125	0.809	22.1
Right tilted				523302/2616.51	1:1	0.752	0.01	22.44	23.00	1.138	0.855	22.1
Right tilted	100 (JESK I	133KD_08	528000/2640	1:1 Head -	0.732 Test Data(10	0.16	22.35	23.00	1.161	0.850	22.1
Right tilted	100	OPSK	270RB 0	518598/2592.99		0.678	0.03	22.28	23.00	1.180	0.800	22.1
ragni unou	100	QI OIX	27011D_0	Body worn To					23.00	1.100	0.000	22.1
Front side	100	OPSK	1RB 137	513900/2569.5	1:1	0.108	-0.06	22.27	22.50	1.054	0.114	22.3
Back side				513900/2569.5	1:1	0.320	0.16	22.27	22.50	1.054	0.337	22.3
	,			Body worn Tes								
Front side	100 0	QPSK 1	135RB_69	523302/2616.51	1:1	0.125	0.14	22.21	22.50	1.069	0.134	22.3
Back side				523302/2616.51	1:1	0.363	0.03	22.21	22.50	1.069	0.388	22.3
	1			Body worn To		(Separate 1	5mm 1RB) Sensor off	1		1	ı
Front side	100	QPSK	1RB _. 137	509202/2546.01	1:1	0.057	-0.03	22.50	23.00	1.122	0.064	22.3
Back side				509202/2546.01	1:1	0.152	-0.04	22.50	23.00	1.122	0.171	22.3
				Body worn Tes		Separate 15	mm 50%R	B) Sensor of				
Front side	100 (QPSK 1	135RB_69	513900/2569.5	1:1	0.061	0.08	22.63	23.00	1.089	0.066	22.3
Back side	100 0	QPSK 1	135RB_69	513900/2569.5	1:1	0.162	-0.11	22.63	23.00	1.089	0.176	22.3
					t data(S	Separate 10	mm 1RB) \$					
Front side				513900/2569.5	1:1	0.108	-0.06	22.27	22.50	1.054	0.114	22.3
Back side				513900/2569.5	1:1	0.320	0.16	22.27	22.50	1.054	0.337	22.3
Top side	100	QPSK	1RB_137	513900/2569.5	1:1	0.238	-0.12	22.27	22.50	1.054	0.251	22.3
	1400 1	20014	LOEDD OF	Hotspot Test					00.50	1 000	0.404	
Front side	+ +			523302/2616.51	1:1	0.125	0.14	22.21	22.50	1.069	0.134	22.3
Back side				523302/2616.51	1:1	0.363	0.03	22.21	22.50	1.069	0.388	22.3
Top side	100 (QPSK 1	135RB_69	523302/2616.51	1:1	0.238	0.03	22.21	22.50	1.069	0.254	22.3
Frank state 45 mm	1400	00014	4DD 407			est data 1RB			00.00	4.400	0.004	00.0
Front side-15mm Back side-15mm				509202/2546.01	1:1 1:1	0.057 0.152	-0.03 -0.04	22.50 22.50	23.00 23.00	1.122 1.122	0.064 0.171	22.3 22.3
Left side-10mm				509202/2546.01	1:1	0.132	0.12	22.50	23.00	1.122	0.171	22.3
Right side-10mm				509202/2546.01	1:1	0.035	-0.15	22.50	23.00	1.122	0.104	22.3
Top side -15mm				509202/2546.01	1:1	0.033	0.17	22.50	23.00	1.122	0.139	22.3
1 op diae - Torrilli	100	<u>αι ΟΙ</u>	101			t data 50%R			20.00	1.122	0.100	
Front side-15mm	100 0	QPSK 1	135RB 69		1:1	0.061	0.08	22.63	23.00	1.089	0.066	22.3
Back side-15mm					1:1	0.162	-0.11	22.63	23.00	1.089	0.176	22.3
Left side-10mm	100 0	QPSK 1	135RB 69	513900/2569.5	1:1	0.123	0.11	22.63	23.00	1.089	0.134	22.3
Right side-10mm					1:1	0.028	-0.01	22.63	23.00	1.089	0.030	22.3
Top side -15mm					1:1	0.136	0.12	22.63	23.00	1.089	0.148	22.3
						t1 Test Rec						
						t the worst c						
Right cheek	100	QPSK	1RB_137	509202/2546.01		0.389	0.05	24.25	25.00	1.189	0.462	22.1
	1.5-1	000:		Body worn T								
Back side	100	QPSK	1RB_137	509202/2546.01		0.549	0.01	24.25	25.00	1.189	0.652	22.3
Deals	1400	ODOK	4DD 407			at the worst			05.00	4.400	0.050	00.0
Back side	100	QP5K	IKB_13/	509202/2546.01		0.549	0.01	24.25	25.00	1.189	0.652	22.3
				Hood Tool		t the worst c		atten/2#				
Right tilted	100 6)PSK 1	135RR 60	523302/2616.51		0.728	0.06	22.44	23.00	1.138	0.828	22.1
Tright tilted	100	×1 UI\ 1	10011D_08	Body worn T					20.00	1.100	0.020	<u> 44.1</u>
Back side	100)PSK 1	135RR 60	523302/2616.51	1:1	0.351	0.07	22.21	22.50	1.069	0.375	22.3
Daok side	100	×1 UI	10011D_08			at the worst			22.00	1.009	0.575	22.0
Back side	100	אספע ז	135DB 60	9523302/2616.51	1:1	0. 351	0.07	1 1	22.50	1 060	0.375	22.3
Back side	100	ארטה ו	190KD_08	7023302/2010.5T	1.1	0. 991	0.07	22.21	22.50	1.069	0.375	22.3

Table 27: SAR of 5G NR n41 for Head and Body.



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Report No.: AR/2021/1000808

Page : 114 of 132

8.3.1 SAR Result of 5G NR n66

Ant1 Test Record													
BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Dower	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp			
			Head 7	Test Data(1	IRB)								
20	QPSK 1RB_1	354000/1770	1:1	0.063	0.04	24.33	25.00	1.167	0.074	22.1			
20	QPSK 1RB_1	354000/1770	1:1	0.042	-0.08	24.33	25.00	1.167	0.049	22.1			
20	QPSK 1RB_1	354000/1770	1:1	0.094	0.02	24.33	25.00	1.167	0.109	22.1			
20	QPSK 1RB_1	354000/1770	1:1	0.036	0.13	24.33	25.00	1.167	0.042	22.1			
			Head Te	est Data(50	%RB)								
20	QPSK 50RB_28	344000/1720	1:1	0.059	-0.06	24.27	25.00	1.183	0.070	22.1			
20	QPSK 50RB_28	344000/1720	1:1	0.038	0.08	24.27	25.00	1.183	0.045	22.1			
20	QPSK 50RB_28	344000/1720	1:1	0.063	-0.08	24.27	25.00	1.183	0.075	22.1			
20	QPSK 50RB_28	344000/1720	1:1	0.036	0.14	24.27	25.00	1.183	0.043	22.1			
		Body worn Te	st data(S	eparate 10	mm 1RB)	Sensor on							
Front side 20 QPSK 1RB_53 349000/1745 1:1 0.251 -0.15 19.80 21.00 1.318 0.331 22.1													
20	QPSK 1RB_53	349000/1745	1:1	0.387	-0.05	19.80	21.00	1.318	0.510	22.1			
		Body worn Test	data(Se	parate 10n	nm 50%RE	3) Sensor on							
20	QPSK 50RB_28	344000/1720	1:1	0.220	-0.09	20.01	21.00	1.256	0.276	22.1			
20	QPSK 50RB_28	344000/1720	1:1	0.349	-0.10	20.01	21.00	1.256	0.438	22.1			
		Body worn Te	st data(S	eparate 15	mm 1RB)	Sensor off							
20	QPSK 1RB_1	354000/1770	1:1	0.312	-0.17	24.33	25.00	1.167	0.364	22.3			
20	QPSK 1RB_1	354000/1770	1:1	0.494	0.04	24.33	25.00	1.167	0.576	22.3			
	E	Body worn Test	data (Se	parate 15n	nm 50%RE	3) Sensor off							
20	QPSK 50RB_28	344000/1720	1:1	0.291	-0.05	24.27	25.00	1.183	0.344	22.3			
20	QPSK 50RB_28	344000/1720	1:1	0.456	-0.03	24.27	25.00	1.183	0.539	22.3			
		Hotspot Test	data(Se	parate 10m	nm 1RB) S	ensor on							
20	QPSK 1RB_53	349000/1745	1:1	0.251	-0.15	19.80	21.00	1.318	0.331	22.3			
20	QPSK 1RB_53	349000/1745	1:1	0.387	-0.05	19.80	21.00	1.318	0.510	22.3			
20	QPSK 1RB_53	349000/1745	1:1	0.581	-0.07	19.80	21.00	1.318	0.766	22.3			
		Hotspot Test d	lata(Sepa	arate 10mn	n 50%RB)	Sensor on							
20	QPSK 50RB_28	344000/1720	1:1	0.220	-0.09	20.01	21.00	1.256	0.276	22.3			
20	QPSK 50RB_28	344000/1720	1:1	0.349	-0.10	20.01	21.00	1.256	0.438	22.3			
20	QPSK 50RB_28	344000/1720	1:1	0.505	0.01	20.01	21.00	1.256	0.634	22.3			
		Hots	spot Test	data 1RB	Sensor off								
20	QPSK 1RB_1	354000/1770	1:1	0.312	-0.17	24.33	25.00	1.167	0.364	22.3			
20	QPSK 1RB_1	354000/1770	1:1	0.494	0.04	24.33	25.00	1.167	0.576	22.3			
20	QPSK 1RB_1	354000/1770	1:1	0.070	-0.10	24.33	25.00	1.167	0.082	22.3			
20	QPSK 1RB_1	354000/1770	1:1	0.131	-0.06	24.33	25.00	1.167	0.153	22.3			
20	G. S. T. T.B_1	00 1000, 11 10											
	20 20 20 20 20 20 20 20	20 QPSK 1RB_1 20 QPSK 50RB_28 20 QPSK 1RB_53 20 QPSK 1RB_53 20 QPSK 1RB_53 20 QPSK 50RB_28 20 QPSK 50RB_28 20 QPSK 50RB_28 20 QPSK 1RB_1 20 QPSK 1RB_1 20 QPSK 1RB_1 20 QPSK 1RB_53 20 QPSK 50RB_28 20 QPSK 50RB_28 20 QPSK 1RB_53 20 QPSK 50RB_28 20 QPSK 50RB_28 20 QPSK 50RB_28 20 QPSK 50RB_28	20 QPSK 1RB_1 354000/1770 20 QPSK 1RB_1 354000/1770 20 QPSK 1RB_1 354000/1770 20 QPSK 1RB_1 354000/1770 20 QPSK 50RB_2 344000/1720 20 QPSK 1RB_5 349000/1745 20 QPSK 1RB_5 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 1RB_1 354000/1770 20 QPSK 1RB_1 354000/1770 20 QPSK 50RB_2 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 50RB_2 344000/1720 20 QPSK 1RB_5 349000/1745 20 QPSK 50RB_2 344000/1720	Head Test mode	Head Test Data(1)	Name	Name	Name	Name	BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 1- Power (dBm) Test ch./Freq. Duty (W/kg) 1- Power (dBm) Test ch./Freq. Duty (W/kg) 1- Power (dBm) Test ch./Freq. Duty (W/kg) 1- Power (dBm) Duty (M/kg) Test Data(1RB)			



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Report No.: AR/2021/1000808

Page : 115 of 132

Front side-15mm	20	QPSK 50RB_28	344000/1720	1:1	0.291	-0.05	24.27	25.00	1.183	0.344	22.3			
Back side-15mm	20	QPSK 50RB 28		1:1	0.456	-0.03	24.27	25.00	1.183	0.539	22.3			
Left side-10mm	20	QPSK 50RB_28		1:1	0.063	0.14	24.27	25.00	1.183	0.075	22.3			
Right side-10mm	20	QPSK 50RB_28	344000/1720	1:1	0.119	0.11	24.27	25.00	1.183	0.141	22.3			
Bottom side -15mm	20	QPSK 50RB_28	344000/1720	1:1	0.651	-0.13	24.27	25.00	1.183	0.770	22.3			
		l		Ant4	Test Rece	ord								
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1- g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp			
				Head 7	Test Data(1RB)								
Left cheek	20	QPSK 1RB_49	344000/1720	1:1	0.164	-0.07	23.15	24.50	1.365	0.224	22.1			
Left tilted	20	QPSK 1RB_49	344000/1720	1:1	0.214	-0.09	23.15	24.50	1.365	0.292	22.1			
Right cheek	20	QPSK 1RB_49	344000/1720	1:1	0.247	-0.16	23.15	24.50	1.365	0.337	22.1			
Right tilted	20	QPSK 1RB_49	344000/1720	1:1	0.268	-0.09	23.15	24.50	1.365	0.366	22.1			
				Head Te	est Data(50)%RB)								
Left cheek 20 QPSK 25RB_26 349000/1745 1:1 0.175 0.08 23.18 24.50 1.355 0.237 22.1														
Left tilted 20 QPSK 25RB_26 349000/1745 1:1 0.211 0.11 23.18 24.50 1.355 0.286 22.1														
Right cheek	20	QPSK 25RB_26	349000/1745	1:1	0.256	0.04	23.18	24.50	1.355	0.347	22.1			
Right tilted	20	QPSK 25RB_26	349000/1745	1:1	0.271	-0.05	23.18	24.50	1.355	0.367	22.1			
			Body wo	rn Test c	lata(Separ	ate 10mm	1RB)							
Front side	20	QPSK 1RB_49	344000/1720	1:1	0.052	-0.01	23.15	24.50	1.365	0.071	22.3			
Back side	20	QPSK 1RB_49	344000/1720	1:1	0.092	-0.10	23.15	24.50	1.365	0.126	22.3			
			Body worn	Test dat	a (Separat	e 10mm 50	0%RB)							
Front side	20	QPSK 25RB_26	349000/1745	1:1	0.055	0.04	23.18	24.50	1.355	0.075	22.3			
Back side	20	QPSK 25RB_26	349000/1745	1:1	0.099	0.02	23.18	24.50	1.355	0.134	22.3			
			Hotspot Test	data(Se	parate 10n	nm 1RB) S	ensor on							
Front side	20	QPSK 1RB_49	344000/1720	1:1	0.052	-0.01	23.15	24.50	1.365	0.071	22.3			
Back side	20	QPSK 1RB_49	344000/1720	1:1	0.092	-0.10	23.15	24.50	1.365	0.126	22.3			
Left side	20	QPSK 1RB_49	344000/1720	1:1	0.013	-0.08	23.15	24.50	1.365	0.018	22.3			
Right side	20	QPSK 1RB_49	344000/1720	1:1	0.016	0.01	23.15	24.50	1.365	0.022	22.3			
Top side	20	QPSK 1RB_49	344000/1720	1:1	0.086	-0.13	23.15	24.50	1.365	0.117	22.3			
			Hotspot Test of	lata(Sepa	arate 10mr	n 50%RB)	Sensor on							
Front side	20	QPSK 25RB_26	349000/1745	1:1	0.055	0.04	23.18	24.50	1.355	0.075	22.3			
Back side	20	QPSK 25RB_26	349000/1745	1:1	0.099	0.02	23.18	24.50	1.355	0.134	22.3			
Left side	20	QPSK 25RB_26	349000/1745	1:1	0.016	-0.06	23.18	24.50	1.355	0.022	22.3			
Right side	20	QPSK 25RB_26	349000/1745	1:1	0.019	-0.05	23.18	24.50	1.355	0.026	22.3			
Top side	20	QPSK 25RB_26	349000/1745	1:1	0.117	0.02	23.18	24.50	1.355	0.159	22.3			
				Ant1	Test Reco	ord								
			Head Test	data at th	ne worst ca	se with Ba	ttery2#							
Right cheek	20	QPSK 1RB_1	354000/1770	1:1	0.081	0.01	24.33	25.00	1.167	0.095	22.1			
			Body worn Te	st data a	t the worst	case with	Battery2#							
Back side	20	QPSK 1RB_1	354000/1770	1:1	0.491	0.05	24.33	25.00	1.167	0.573	22.3			
			Hotspot Tes	t data at	the worst o	case with B	attery2#							



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Report No.: AR/2021/1000808

Page : 116 of 132

Bottom side -15mm	20	QPSK 1RB_1	354000/1770	1:1	0.651	0.08	24.33	25.00	1.167	0.760	22.3	
	Ant1 Test Record											
	Head Test data at the worst case with Battery2#											
Right tilted	20	QPSK 25RB_26	349000/1745	1:1	0.261	0.07	23.18	24.50	1.355	0.354	22.1	
			Body worn Te	st data a	t the worst	case with	Battery2#					
Back side	20	QPSK 25RB_26	349000/1745	1:1	0.091	0.01	23.18	24.50	1.355	0.123	22.3	
	Hotspot Test data at the worst case with Battery2#											
Top side	20	QPSK 25RB_26	349000/1745	1:1	0.102	0.02	23.18	24.50	1.355	0.138	22.3	

Table 28: SAR of 5G NR n66 for Head and Body.



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Report No.: AR/2021/1000808

Page : 117 of 132

SAR Result of 5G NR n77 8.3.2

5G NR N77 SAR Test Record Ant2 Test Record												
				Ant2		ora	Canduated	Tuna un		Cooled		
Toot position	BW.	Toot made	Toot ob /From	Duty	SAR	Power	Conducted		Scaled	Scaled SAR	Liquid	
Test position	BW.	Test mode	Test ch./Freq.	Cycle	(W/kg) 1-	Drift (dB)	Power	Limit	factor		Temp	
				-	y		(dBm)	(dBm)		(W/kg)	•	
1 -6 -61	400	ODOK 4DD 407	050400/0700		Test Data(40.74	47.00	4.000	0.405	00.4	
Left cheek	100	QPSK 1RB_137	652400/3786	1:1	0.117	0.14	16.71	17.00	1.069	0.125	22.1	
Left tilted	100	QPSK 1RB_137	652400/3786	1:1	0.136	0.09	16.71	17.00	1.069	0.145	22.1	
Right cheek	100	QPSK 1RB_137	652400/3786	1:1	0.640	0.10	16.71	17.00	1.069	0.684	22.1	
Right tilted	100	QPSK 1RB_137	652400/3786	1:1	0.246	0.03	16.71	17.00	1.069	0.263	22.1	
Right cheek	100	QPSK 1RB_137	650000/3750	1:1	0.425	0.11	16.70	17.00	1.072	0.455	22.1	
Right cheek	100	QPSK 1RB_137	654800/3822	1:1	0.673	0.09	16.70	17.00	1.072	0.721	22.1	
Right cheek	100	QPSK 1RB_137	657200/3858	1:1	0.636	-0.04	16.64	17.00	1.086	0.691	22.1	
Right cheek	100	QPSK 1RB_137	659600/3894	1:1	0.638	0.01	16.60	17.00	1.096	0.700	22.1	
Right cheek	100	QPSK 1RB_137	662000/3930	1:1	0.544	-0.15	16.65	17.00	1.084	0.590	22.1	
				Head Te	est Data(50	%RB)						
Left cheek		QPSK 135RB_138		1:1	0.110	0.12	16.77	17.00	1.054	0.116	22.1	
Left tilted	100	QPSK 135RB_138	652400/3786	1:1	0.129	-0.13	16.77	17.00	1.054	0.136	22.1	
Right cheek	100	QPSK 135RB_138	652400/3786	1:1	0.685	0.01	16.77	17.00	1.054	0.722	22.1	
Right tilted		QPSK 135RB_138		1:1	0.269	0.07	16.77	17.00	1.054	0.284	22.1	
Right cheek	100	QPSK 135RB_138	650000/3750	1:1	0.514	0.07	16.73	17.00	1.064	0.547	22.1	
Right cheek	100	QPSK 135RB_138	654800/3822	1:1	0.690	-0.03	16.73	17.00	1.064	0.734	22.1	
Right cheek		QPSK 135RB_138		1:1	0.672	-0.07	16.71	17.00	1.069	0.718	22.1	
Right cheek		QPSK 135RB_138		1:1	0.591	0.07	16.72	17.00	1.067	0.630	22.1	
Right cheek		QPSK 135RB_138		1:1	0.437	0.02	16.66	17.00	1.081	0.473	22.1	
		_		rn Test o	data(Separ	ate 10mm	1RB)			I		
Front side	100	QPSK 1RB_137	652400/3786	1:1	0.165	0.06	18.04	18.50	1.112	0.183	22.1	
Back side	100	QPSK 1RB_137	652400/3786	1:1	0.435	0.15	18.04	18.50	1.112	0.484	22.1	
240.1 0.40		<u> </u>			ta(Separat					00.		
Front side	100	QPSK 135RB_138		1:1	0.179	0.06	18.19	18.50	1.074	0.192	22.1	
Back side		QPSK 135RB_138		1:1	0.431	0.02	18.19	18.50	1.074	0.463	22.1	
Baok side	100	QI OIT IOOTED_100			ta (Separa			10.00	1.07 -	0.400	22.1	
Front side	100	QPSK 1RB_137	652400/3786	1:1	0.165	0.06	18.04	18.50	1.112	0.183	22.3	
Back side	100	QPSK 1RB_137	652400/3786	1:1	0.435	0.15	18.04	18.50	1.112	0.484	22.3	
Left side	100	QPSK 1RB_137	652400/3786	1:1	0.642	-0.11	18.04	18.50	1.112	0.714	22.3	
Left side	100	QPSK 1RB_137	650000/3750	1:1	0.462	0.01	18.00	18.50	1.122	0.518	22.3	
Left side	100	QPSK 1RB_137	654800/3822	1:1	0.776	0.01	18.01	18.50	1.119	0.869	22.3	
Left side	100	QPSK 1RB_137	657200/3858	1:1	0.712	0.16	18.01	18.50	1.119	0.797	22.3	
Left side	100	QPSK 1RB_137	659600/3894	1:1	1	-0.08	18.03	18.50	1.119			
Left side	100	QPSK 1RB_137	662000/3930	1:1	0.543 0.412	-0.06	18.00	18.50	1.114	0.605 0.462	22.3 22.3	
Leit Side	100	QFSK IKB_137			_			16.50	1.122	0.462	22.3	
Tan aida	400	ODCK ADD 407	Hotspot Test					40.50	4.040	0.000	20.2	
Top side	100	QPSK 1RB_137	662000/3930	1:1	0.061	0.03	16.45	16.50	1.012	0.062	22.3	
Tan aida	400	ODCK 4DD 407	Hotspot Test					07.00	4.400	0.000	20.0	
Top side	100	QPSK 1RB_137	659600/3894	1:1	0.329	-0.15	26.50	27.00	1.122	0.369	22.3	
Frank side	400	ODOK 405DD 400	Hotspot I	est data	(Separate			40.50	4.074	0.400	00.0	
Front side		QPSK 135RB_138			0.179	0.06	18.19	18.50	1.074	0.192	22.3	
Back side		QPSK 135RB_138		1:1	0.431	0.02	18.19	18.50	1.074	0.463	22.3	
Left side		QPSK 135RB_138		1:1	0.651	-0.10	18.19	18.50	1.074	0.699	22.3	
Left side	_	QPSK 135RB_138		1:1	0.477	0.02	18.14	18.50	1.086	0.518	22.3	
Left side		QPSK 135RB_138		1:1	0.832	-0.10	18.13	18.50	1.089	0.906	22.3	
eft side-Repeated		QPSK 135RB_138		1:1	0.825	-0.10	18.13	18.50	1.089	0.898	22.3	
Left side		QPSK 135RB_138		1:1	0.732	0.04	18.15	18.50	1.084	0.793	22.3	
Left side	_	QPSK 135RB_138		1:1	0.566	0.15	18.05	18.50	1.109	0.628	22.3	
Left side	100	QPSK 135RB_138		1:1	0.424	0.06	18.10	18.50	1.096	0.465	22.3	
			Hotspot Test d	ata (Sep	arate 10mi	m 50%RB)						
Top side	100	QPSK 135RB_69		1:1	0.061	0.02	16.40	16.50	1.023	0.062	22.3	
			Hotspot Test d	ata (Sep	arate 15mi	m 50%RB)	Sensor off					
Top side	100	QPSK 135RB_69	659600/3894	1:1	0.329	-0.01	26.74	27.00	1.062	0.349	22.3	
				est data	(Separate	10mm 100)%RB)					
Left side	100	QPSK 270RB_0		1:1	0.756	0.03	18.01	18.50	1.119	0.846	22.3	
					Test Reco							



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Report No.: AR/2021/1000808

Page : 118 of 132

	Head Test data at the worst case with Battery2#												
Right cheek	100 0	0 QPSK 135RB_138 654800/3822 1:1 0.677 0.02 16.73 17.00 1.064 0.720 22.1											
	Body worn Test data at the worst case with Battery2#												
Back side	100 0	QPSK	135RB_	138	652400/3786	1:1	0.405	0.01	18.19	18.50	1.074	0.435	22.1
	Hotspot Test data at the worst case with Battery2#												
Left side	100 (QPSK	135RB_	138	654800/3822	1:1	0.803	0.05	18.13	18.50	1.089	0.874	22.3

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



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Report No.: AR/2021/1000808

Page : 119 of 132

8.3.1 SAR Result of 5G NR n78

					N78 SAR 1		d				
				A	nt2 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 (W/kg)	Liquid Temp
				He	ad Test Da	ta(1RB)					
Left cheek	100	QPSK 1RB_137	650000/3750	1:1	0.144	-0.07	16.88	18.50	1.452	0.209	22.1
Left tilted	100	QPSK 1RB_137	650000/3750	1:1	0.170	0.09	16.88	18.50	1.452	0.247	22.1
Right cheek	100	QPSK 1RB_137	650000/3750	1:1	0.459	-0.07	16.88	18.50	1.452	0.667	22.1
Right tilted	100	QPSK 1RB_137	650000/3750	1:1	0.209	-0.05	16.88	18.50	1.452	0.303	22.1
				Head	d Test Data	(50%RB)					
Left cheek	100	QPSK 135RB_138	650000/3750	1:1	0.147	-0.10	16.79	18.50	1.483	0.218	22.1
Left tilted	100	QPSK 135RB_138	650000/3750	1:1	0.166	0.08	16.79	18.50	1.483	0.246	22.1
Right cheek	100	QPSK 135RB_138	650000/3750	1:1	0.469	0.07	16.76	18.50	1.493	0.700	22.1
Right tilted	100	QPSK 135RB_138	650000/3750	1:1	0.254	0.12	16.79	18.50	1.483	0.377	22.1
_				y worn Te	est data(Se	parate 10m	m 1RB)				
Front side	100	QPSK 1RB_137	650000/3750	1:1	0.192	-0.08	20.57	21.50	1.239	0.238	22.1
Back side	100	QPSK 1RB_137	650000/3750	1:1	0.524	0.01	20.57	21.50	1.239	0.649	22.1
			Body	worn Tes	t data(Sepa	arate 10mm	50%RB)				
Front side	100	QPSK 135RB_138	650000/3750	1:1	0.209	0.18	20.36	21.50	1.300	0.272	22.1
Back side			650000/3750	1:1	0.572	-0.02	20.36	21.50	1.300	0.744	22.1
			Hot	tspot Test	data (Sepa	arate 10mm					•
Front side	100	QPSK 1RB_137	650000/3750	1:1	0.192	-0.08	20.57	21.50	1.239	0.238	22.3
Back side	100	QPSK 1RB_137	650000/3750	1:1	0.524	0.01	20.57	21.50	1.239	0.649	22.3
Left side	100		650000/3750	1:1	0.644	0.13	20.57	21.50	1.239	0.798	22.3
		•	Hotspot 1	Test data	(Separate	10mm 1RB) Sensor on				•
Top side	100	QPSK 1RB_1	650000/3750	1:1	0.090	0.02	15.39	16.00	1.151	0.104	22.3
			Hotspot '	Test data	(Separate	15mm 1RB) Sensor off				•
Top side	100	QPSK 1RB_137	650000/3750	1:1	0.460	0.14	26.73	27.00	1.064	0.490	22.3
	1	_	Hots	pot Test o	data (Separ	ate 10mm	50%RB)	<u> </u>		•	1
Front side	100	QPSK 135RB_138		1:1	0.209	0.18	20.51	21.50	1.256	0.263	22.3
Back side			650000/3750	1:1	0.572	-0.02	20.51	21.50	1.256	0.718	22.3
Left side		QPSK 135RB_138		1:1	0.752	0.08	20.51	21.50	1.256	0.945	22.3
	1			est data (S	Separate 10	0mm 50%R	B) Sensor on	<u> </u>		•	1
Top side	100	QPSK 135RB 0	650000/3750	1:1	0.090	0.03	14.77	16.00	1.327	0.119	22.3
	1	_		est data (S	Separate 15	5mm 50%R	B) Sensor off	<u> </u>		•	1
Top side	100	QPSK 135RB_69	650000/3750	1:1	0.460	-0.11	26.85	27.00	1.035	0.476	22.3
· ·			Hotse	ot Test d	ata (Separa	ate 10mm 1					
Left side	100	QPSK 270RB_0	650000/3750	1:1	0.716	0.01	20.35	21.50	1.303	0.933	22.3
				Α	nt2 Test R	ecord					
			Head 7		at the wors		Battery2#				
Right cheek	100	QPSK 135RB_138		1:1	0.441	0.01	16.76	18.50	1.493	0.658	22.1
				n Test da			ith Battery2#			•	
Back side	100	QPSK 135RB_138		1:1	0.548	0.08	20.36	21.50	1.300	0.712	22.1
	•			Test data	at the wor	st case with	n Battery2#			•	
Left side	100	QPSK 135RB_138		1:1	0.728	0.18	20.51	21.50	1.256	0.914	22.3
		of 5G NP n78				•		l		•	

Table 30: SAR of 5G NR n78 for Head and Body.



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Report No.: AR/2021/1000808

Page : 120 of 132

8.3.2 SAR Result of WIFI 2.4G

					Ant 7 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(W/kg)	Liquid Temp.			
					Head Test	data								
Left cheek	802.11b	1/2412	99.61%	1.004	0.424	0.04	17.97	19.00	1.268	0.540	22			
Left tilted	802.11b	1/2412	99.61%	1.004	0.328	-0.13	17.97	19.00	1.268	0.417	22			
Right cheek	802.11b	1/2412	99.61%	1.004	0.152	0.02	17.97	19.00	1.268	0.193	22			
Right tilted	802.11b	1/2412	99.61%	1.004	0.126	-0.03	17.97	19.00	1.268	0.160	22			
Body worn Test data(Separate 10mm)														
Front side	802.11b	1/2412	99.61%	1.004	0.082	0.02	17.97	19.00	1.268	0.104	22			
Back side	802.11b	1/2412	99.61%	1.004	0.129	0.05	17.97	19.00	1.268	0.164	22			
	Hotspot Test data (Separate 10mm)													
Front side	802.11b	1/2412	99.61%	1.004	0.082	0.02	17.97	19.00	1.268	0.104	22			
Back side	802.11b	1/2412	99.61%	1.004	0.129	0.05	17.97	19.00	1.268	0.164	22			
Left side	802.11b	1/2412	99.61%	1.004	0.016	0.09	17.97	19.00	1.268	0.020	22			
Right side	802.11b	1/2412	99.61%	1.004	0.094	0.05	17.97	19.00	1.268	0.120	22			
Top side	802.11b	1/2412	99.61%	1.004	0.088	0.06	17.97	19.00	1.268	0.112	22			
					Ant7 Test R	ecord								
			H	lead Test dat	ta at the wors	t case with E	Battery2#							
Left cheek	802.11b	1/2412	99.61%	1.004	0.418	0.01	17.97	19.00	1.268	0.532	22			
			Boo	dy worn Test	data at the wo	orst case wit	h Battery2#							
Back side	Back side 802.11b 1/2412 99.61% 1.004 0.122 0.09 17.97 19.00 1.268 0.155 22													
				otspot Test da	ata at the wor	st case with								
Back side	802.11b	1/2412	99.61%	1.004	0.122	0.09	17.97	19.00	1.268	0.155	22			

Table 31: SAR of WIFI 2.4G for Head and Body.



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Report No.: AR/2021/1000808

Page : 121 of 132

SAR Result of WIFI 5G 8.3.3

					nt7 Test Re	cora					
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
		•	•	Head ⁻	Test data of	U-NII-2A					
Left cheek	802.11a	64/5320	97.27%	1.028	0.465	0.13	15.10	16.00	1.230	0.588	22.2
Left tilted	802.11a	64/5320	97.27%	1.028	0.652	0.03	15.10	16.00	1.230	0.825	22.2
Right cheek	802.11a	64/5320	97.27%	1.028	0.341	0.18	15.10	16.00	1.230	0.431	22.2
Right tilted	802.11a	64/5320	97.27%	1.028	0.408	-0.15	15.10	16.00	1.230	0.516	22.2
Left tilted	802.11a	52/5260	97.27%	1.028	0.557	-0.06	14.61	16.00	1.377	0.789	22.2
<u> </u>		I.	I	Head ⁻	Test data of	U-NII-2C					
Left cheek	802.11a	116/5580	97.27%	1.028	0.474	-0.15	13.22	14.00	1.197	0.583	22.2
Left tilted	802.11a	116/5580	97.27%	1.028	0.619	0.10	13.22	14.00	1.197	0.762	22.2
Right cheek	802.11a	116/5580	97.27%	1.028	0.337	0.14	13.22	14.00	1.197	0.415	22.2
Right tilted	802.11a	116/5580	97.27%	1.028	0.369	-0.02	13.22	14.00	1.197	0.454	22.2
					Test data of						
Left cheek	802.11a	149/5745	97.27%	1.028	0.452	-0.08	12.76	14.00	1.330	0.618	22.2
Left tilted	802.11a	149/5745	97.27%	1.028	0.588	-0.03	12.76	14.00	1.330	0.804	22.2
Right cheek	802.11a	149/5745	97.27%	1.028	0.353	-0.14	12.76	14.00	1.330	0.483	22.2
Right tilted	802.11a	149/5745	97.27%	1.028	0.454	0.17	12.76	14.00	1.330	0.621	22.2
Left tilted	802.11a	157/5785	97.27%	1.028	0.602	-0.18	12.76	14.00	1.330	0.823	22.2
LOR IIIIOG	JUL. 110	107/0700		worn Test da				17.00	1.000	0.020	
Front side	802.11a	64/5320	97.27%	1.028	0.146	-0.08	16.23	18.00	1.503	0.226	22.2
Back side	802.11a	64/5320	97.27%	1.028	0.295	-0.07	16.23	18.00	1.503	0.456	22.2
Dack side	002.11a	04/3320		worn Test da				10.00	1.505	0.430	22.2
Front side	802.11a	116/5580	97.27%	1.028	0.131	-0.01	13.22	15.00	1.507	0.203	22.2
Back side	802.11a	116/5580	97.27%	1.028	0.131	0.00	13.22	15.00	1.507	0.483	22.2
Dack Side	002.11a	110/3300		y worn Test o				13.00	1.507	0.465	22.2
Front side	802.11a	149/5745	97.27%	1.028	0.253	-0.06	16.36	18.00	1.459	0.379	22.2
		149/5745		1.028							
Back side	802.11a		97.27%	1.028	0.572	0.04	16.36	18.00	1.459	0.858	22.2
Back side	802.11a	165/5825	97.27%		0.551	0.04	16.35	18.00	1.462	0.828	22.2
Cront side	802.11a	44/5220		tspot Test da				18.00	1 170	0 404	22.2
Front side			97.27%	1.028	0.126	-0.16	16.32		1.472	0.191	
Back side	802.11a	44/5220	97.27%	1.028	0.264	0.17	16.32	18.00	1.472	0.400	22.2
Right side	802.11a	44/5220	97.27%	1.028	0.067	-0.05	16.32	18.00	1.472	0.101	22.2
Top side	802.11a	44/5220	97.27%	1.028	0.332	0.06	16.32	18.00	1.472	0.503	22.2
	000.11	440/5745		tspot Test da				10.00	4 450		
Front side	802.11a	149/5745	97.27%	1.028	0.253	0.02	16.36	18.00	1.459	0.379	22.2
Back side	802.11a	149/5745	97.27%	1.028	0.572	0.04	16.36	18.00	1.459	0.858	22.2
Back side	802.11a	165/5825	97.27%	1.028	0.551	0.04	16.35	18.00	1.462	0.828	22.2
Right side	802.11a	149/5745	97.27%	1.028	0.161	0.10	16.36	18.00	1.459	0.241	22.2
Top side	802.11a	149/5745	97.27%	1.028	0.647	-0.02	16.36	18.00	1.459	0.970	22.2
Top side	802.11a	165/5825	97.27%	1.028	0.615	0.03	16.35	18.00	1.462	0.924	22.2
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)10-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
			Product end		R Test data	of LI-NIII-2	A(Separate Or	nm)			
Front side	802.11a	64/5320	97.27%	1.028	0.301	0.03	16.23	18.00	1.503	0.465	22.2
Back side	802.11a	64/5320	97.27%	1.028	0.501	0.03	16.23	18.00	1.503	0.463	22.2
Right side	802.11a	64/5320	97.27%	1.028	0.087	0.17	16.23	18.00	1.503	0.174	22.2
Top side	802.11a	64/5320	97.27%	1.028	0.067	0.12	16.23	18.00	1.503	1.187	22.2
i op side	002.11d						C(Separate 0r		1.503	1.10/	LL.L
Front side	902 44c								1 507	0.460	22.2
Front side	802.11a	116/5580	97.27%	1.028	0.302	0.16	13.22	15.00	1.507	0.468	22.2
Back side	802.11a	116/5580	97.27%	1.028	0.364	0.13	13.22	15.00	1.507	0.564	22.2
Right side	802.11a	116/5580	97.27%	1.028	0.072	0.09	13.22	15.00	1.507	0.112	22.2
Top side	802.11a	116/5580	97.27%	1.028	0.491	-0.13	13.22	15.00	1.507	0.761	22.2
					nt7 Test Re		D-11 0"				
1 - 6 - 61 - 1	000.11	04/5000		ad Test data a				40.00	4.000	1 0 645	00.0
Left tilted	802.11a	64/5320	97.27%	1.028	0.644	0.04	15.10	16.00	1.230	0.815	22.2
<u> </u>	000 ::	1.10/==:=		worn Test dat				10.00	4 /	1 00:0	00.0
Back side	802.11a	149/5745	97.27%	1.028	0.566	-0.11	16.36	18.00	1.459	0.849	22.2



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Report No.: AR/2021/1000808

Page : 122 of 132

			Hots	oot Test data	at the worst	case with	Battery2#						
Top side 802.11a 149/5745 97.27% 1.028 0.641 -0.08 16.36 18.00 1.459 0.961 22													
Product specific 10g SAR Test data at the worst case with Battery2#													
Top side													

Table 32: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.



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Report No.: AR/2021/1000808

Page : 123 of 132

SAR Result of BT 8.3.4

				AN ⁻	T7 SAR Tes	t 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 (W/kg)	Liquid Temp.		
					Head Test	data							
Left cheek	DH5	39/2441	76.67%	1.304	0.023	0.10	8.21	10.00	1.510	0.045	22.0		
Left tilted	DH5	39/2441	76.67%	1.304	0.018	0.04	8.21	10.00	1.510	0.036	22.0		
Right cheek	DH5	39/2441	76.67%	1.304	0.012	-0.02	8.21	10.00	1.510	0.023	22.0		
Right tilted	DH5	39/2441	76.67%	1.304	0.011	-0.05	8.21	10.00	1.510	0.021	22.0		
Body worn Test data (Separate 10mm)													
Front side	DH5	39/2441	76.67%	1.304	0.004	0.00	8.21	10.00	1.510	0.008	22.0		
Back side	Back side DH5 39/2441 76.6			1.304	0.007	0.00	8.21	10.00	1.510	0.013	22.0		
	Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	76.67%	1.304	0.004	0.00	8.21	10.00	1.510	0.008	22.0		
Back side	DH5	39/2441	76.67%	1.304	0.007	0.00	8.21	10.00	1.510	0.013	22.0		
Left side	DH5	39/2441	76.67%	1.304	0.001	-0.01	8.21	10.00	1.510	0.002	22.0		
Right side	DH5	39/2441	76.67%	1.304	0.007	-0.04	8.21	10.00	1.510	0.013	22.0		
Top side	DH5	39/2441	76.67%	1.304	0.005	-0.05	8.21	10.00	1.510	0.010	22.0		
					Ant7 Test R	ecord							
			Hea	d Test data	at the wors	t case with	Battery2#						
Left cheek	DH5	39/2441	76.67%	1.304	0.021	0.06	8.21	10.00	1.510	0.041	22.0		
	Body worn Test data at the worst case with Battery2#												
Back side	DH5	39/2441	76.67%	1.304	0.006	0.02	8.21	10.00	1.510	0.012	22.0		
			Hotsp	oot Test dat	a at the wo	st case wit	th Battery2#						
Top side	DH5	39/2441	76.67%	1.304	0.005	-0.13	8.21	10.00	1.510	0.010	22.0		

Table 33: SAR of BT for Head and Body.



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Report No.: AR/2021/1000808

Page : 124 of 132

8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body- worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN+BT	Y	Υ	Υ	Υ
3	WWAN+WIFI 2.4G	Y	Υ	Y	Υ
4	WWAN+WIFI 5G	Y	Y	Y	Υ

Note:

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



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Page : 125 of 132

8.4.2 Simultaneous Transmission SAR Summation Scenario

ANT1/ANT2

	MINIZ																				
							А	nt1 SA	ARmax	(W/ko	g)									Ant2 SAF	Rmax (W/kg)
Test	position	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B17	LTE B38	LTE B41	LTE B66	5G NR N7	5G NR N38	5G NR N41	5G NR N66	5G NR N77	5G NR N78
											1										
	Left cheek	0.114	0.015	0.061	0.107	0.218	0.095	0.086	0.211	0.257	0.056	0.058	0.208	0.073	0.095	0.237	0.222	0.292	0.074	0.125	0.218
Head	Left tilted	0.057	0.004	0.054	0.083	0.102	0.078	0.061	0.111	0.214	0.003	0.002	0.201	0.068	0.072	0.262	0.244	0.289	0.049	0.145	0.247
пеац	Right cheek	0.087	0.068	0.121	0.093	0.157	0.106	0.128	0.165	0.344	0.017	0.016	0.221	0.126	0.148	0.377	0.481	0.493	0.109	0.734	0.700
	Right tilted	0.034	0.006	0.064	0.087	0.087	0.080	0.071	0.082	0.187	0.003	0.001	0.151	0.053	0.080	0.169	0.121	0.172	0.043	0.284	0.377
Body-	Front	0.084	0.116	0.335	0.376	0.180	0.491	0.461	0.180	0.296	0.086	0.085	0.276	0.368	0.430	0.403	0.422	0.450	0.364	0.192	0.272
worn	Back	0.100	0.201	0.659	1.057	0.249	0.719	0.583	0.215	0.490	0.095	0.095	0.592	0.574	0.548	0.666	0.539	0.686	0.576	0.484	0.744
	Front	0.110	0.169	0.335	0.376	0.180	0.388	0.461	0.180	0.296	0.086	0.085	0.276	0.368	0.430	0.403	0.422	0.450	0.364	0.192	0.263
	Back	0.124	0.282	0.659	1.057	0.249	0.676	0.583	0.215	0.490	0.095	0.095	0.592	0.574	0.548	0.666	0.539	0.686	0.576	0.484	0.718
Hotopot	Left	0.109	0.028	0.071	0.065	0.104	0.093	0.094	0.073	0.138	0.065	0.063	0.126	0.119	0.076	0.030	0.036	0.033	0.082	0.906	0.945
Hotspot	Right	0.093	0.024	0.146	0.134	0.071	0.182	0.250	0.060	0.315	0.010	0.010	0.216	0.211	0.152	0.117	0.348	0.335	0.153	/	/
	Тор	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.369	0.490
	Bottom	0.121	0.499	0.994	0.867	0.130	1.014	0.802	0.105	0.373	0.006	0.006	0.353	0.327	0.637	0.326	0.405	0.379	0.774	/	
	Front	/	/	0.992	0.744	/	0.945	0.856	/	/	/	/	/	/	/	/	/	/	/	/	/
Product	Back	/	/	1.516	1.125	/	1.343	1.337	/	/	/	/	/	/	/	/	/	/	/	/	/
specific	Left	/	/	0.161	0.123	/	0.218	0.129	/	/	/	/	/	/	/	/	/	/	/	/	/
10g	Right	/	/	0.462	0.300	/	0.638	0.268	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Тор	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom	/	/	0.546	1.743	/	1.114	1.974	/	/	/	/	/	/	2.039	/	/	/	/	/	/

WiFi/	BT Antenna SARmax (W/kg)					
WiFi 2.4G only	WiFi 5G only	BT Ant7	Sumr	ned SARmax (W/kg	1)	SPLSR
2	3	4	1+2	1+3	1+4	
0.540	0.618	0.045	0.832	0.910	0.337	/
0.417	0.841	0.036	0.706	1.130	0.325	/
0.193	0.483	0.023	0.927	1.217	0.757	/
0.160	0.621	0.021	0.537	0.998	0.398	/
0.104	0.379	0.008	0.595	0.870	0.499	/
0.164	0.858	0.013	1.221	1.915	1.070	Yes
0.104	0.379	0.008	0.565	0.840	0.469	/
0.164	0.858	0.013	1.221	1.915	1.070	Yes
1	/	/	0.945	0.945	0.945	/
0.120	0.970	0.013	0.468	1.318	0.361	/
0.112	0.000	0.010	0.602	0.490	0.500	/
1	/	/	1.014	1.014	1.014	/
1	0.468	/	0.992	1.460	0.992	/
/	0.776	1	1.516	2.292	1.516	/
/	/	1	0.218	0.218	0.218	/
/	0.135	1	0.638	0.773	0.638	/
/	1.190	1	0.000	1.190	0.000	/
/	/	/	2.039	2.039	2.039	1



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Report No.: AR/2021/1000808

Page : 126 of 132

						An	t1 SAF	Rmax	(W/kg)										Ant2 SAF	Rmax (W/kg)	WiFi/BT Antenna SARmax (W/kg)	Summed SARmax	
Test position	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B17	LTE B38	LTE B41	LTE B66	5G NR N7		5G NR N41	5G NR N66	5G NR N77	5G NR N78	WiFi 5G only	(W/kg)	Case No
										1											3	1+3	İ
Back	0.124	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	0.982	/
Back	/	0.282	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.140	/
Back	/	/	0.659	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.517	/
Back	/	/	/	1.057	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.915	1#
Back	/	/	/	/	0.249	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.107	/
Back	/	/	/	/	/	0.676	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.534	/
Back	/	/	/	/	/	/	0.583	/	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.441	/
Back	/	/	/	/	/	/	/	0.215	/	/	/	/	/	/	/	/	/	/	/	/	0.858	1.073	/
Back	/	/	/	/	/	/	/	/	0.490	/	/	/	/	/	/	/	/	/	/	/	0.858	1.348	/
Back	/	/	/	/	/	/	/	/	/	0.095	/	/	/	/	/	/	/	/	/	/	0.858	0.953	/
Back	/	/	/	/	/	/	/	/	/	/	0.095	/	/	/	/	/	/	/	/	/	0.858	0.953	/
Back	/	/	/	/	/	/	/	/	/	/	/	0.592	/	/	/	/	/	/	/	/	0.858	1.450	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	0.574	/	/	/	/	/	/	/	0.858	1.432	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	0.548	/	/	/	/	/	/	0.858	1.406	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.666	/	/	/	/	/	0.858	1.524	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.539	/	/	/	/	0.858	1.397	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.686	/	/	/	0.858	1.544	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.576	/	/	0.858	1.434	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.484	/	0.858	1.342	/
Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.718	0.858	1.576	/



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Report No.: AR/2021/1000808

Page : 127 of 132

ANT4

<u> </u>	7																		
								An	t4 SAR	max (W	/kg)								
Test	t position	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B17	LTE B38	LTE B41	LTE B66	5G NR N7	5G NR N38	5G NR N41	5G NR N66
		1																	
	Left cheek	0.616	0.295	0.450	0.197	0.449	0.516	0.204	0.496	0.230	0.426	0.455	0.179	0.132	0.194	0.226	0.213	0.267	0.237
Head	Left tilted	0.559	0.366	0.566	0.238	0.409	0.732	0.261	0.512	0.356	0.503	0.523	0.219	0.196	0.261	0.309	0.251	0.338	0.292
пеац	Right cheek	0.678	0.455	0.676	0.286	0.912	0.631	0.233	0.868	0.524	0.692	0.713	0.439	0.306	0.230	0.629	0.588	0.599	0.347
	Right tilted	0.704	0.602	0.797	0.317	0.595	0.944	0.353	0.857	0.920	0.565	0.595	0.641	0.493	0.318	0.930	0.687	0.855	0.367
Body-	Front	0.142	0.100	0.101	0.063	0.170	0.088	0.062	0.267	0.077	0.213	0.215	0.059	0.060	0.064	0.062	0.078	0.134	0.075
worn	Back	0.238	0.229	0.253	0.102	0.311	0.197	0.139	0.207	0.375	0.344	0.348	0.320	0.251	0.127	0.154	0.391	0.388	0.134
	Front	0.226	0.176	0.101	0.063	0.170	0.088	0.062	0.267	0.077	0.213	0.215	0.059	0.060	0.064	0.062	0.078	0.134	0.075
	Back	0.269	0.321	0.253	0.102	0.311	0.221	0.117	0.190	0.375	0.344	0.348	0.320	0.251	0.127	0.154	0.391	0.388	0.134
Hotopot	Left	0.236	0.035	0.030	0.029	0.124	0.057	0.061	0.133	0.071	0.203	0.195	0.051	0.062	0.023	0.099	0.115	0.134	0.022
Hotspot	Right	0.145	0.030	0.021	0.017	0.078	0.017	0.024	0.068	0.028	0.140	0.134	0.006	0.011	0.012	0.041	0.035	0.039	0.026
	Тор	0.257	0.375	0.255	0.131	0.135	0.229	0.168	0.194	0.211	0.155	0.153	0.085	0.140	0.151	0.146	0.161	0.254	0.159
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Front	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Product	Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
specific		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10g	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
SAR	Тор	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

	WiFi/BT Antenna SARm	nax (W/kg)				
WiFi 2.4G only	WiFi 5G only	BT Ant7	S	ummed SARmax (W/kg)		SPLSR
2	3	4	1+2	1+3	1+4	
0.540	0.618	0.045	1.156	1.234	0.661	/
0.417	0.841	0.036	1.149	1.573	0.768	/
0.193	0.483	0.023	1.105	1.395	0.935	/
0.160	0.621	0.021	1.104	1.565	0.965	/
0.104	0.379	0.008	0.371	0.646	0.275	/
0.164	0.858	0.013	0.555	1.249	0.404	/
0.104	0.379	0.008	0.371	0.646	0.275	/
0.164	0.858	0.013	0.555	1.249	0.404	/
/	1	/	0.236	0.236	0.236	/
0.120	0.970	0.013	0.265	1.115	0.158	/
0.112	0.000	0.010	0.487	0.375	0.385	/
/	1	/	/	0.000	/	/
/	0.468	/	/	0.468	/	/
/	0.776	/	/	0.776	/	/
/	/	/	/	0.000	/	/
/	0.135	/	/	0.135	/	/
/	1.190	/	/	1.190	/	/
/	/	/	/	0.000	/	/



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Report No.: AR/2021/1000808

Page : 128 of 132

EN-DC

		SARmax (W/kg)	SARmax (W/kg)	/	WiFi/BT Ante	nna SARm	nax (W/kg)					
Test	position	LTE B7 Ant2	5G NR N66 Ant1	EN-DC	WiFi 2.4G only	WiFi 5G only	BT Ant7	Summed	I SARma	ıx (W/kg)	SPLSR	Case No
		/		1	2	3	4	1+2	1+3	1+4		
	Left cheek	0.133	0.074	0.207	0.540	0.618	0.045	0.747	0.825	0.252	/	/
Head	Left tilted	0.139	0.049	0.188	0.417	0.841	0.036	0.605	1.029	0.224	/	/
пеаи	Right cheek	0.473	0.109	0.582	0.193	0.483	0.023	0.775	1.065	0.605	/	/
	Right tilted	0.084	0.043	0.127	0.160	0.621	0.021	0.287	0.748	0.148	/	/
Body-	Front	0.322	0.364	0.686	0.104	0.379	0.008	0.790	1.065	0.694	/	/
worn	Back	0.486	0.576	1.062	0.164	0.858	0.013	1.226	1.920	1.075	Yes	2#
	Front	0.322	0.364	0.686	0.104	0.379	0.008	0.790	1.065	0.694	/	/
	Back	0.486	0.576	1.062	0.164	0.858	0.013	1.226	1.920	1.075	Yes	2#
Llotopot	Left	0.100	0.082	0.182	/	/	/	0.182	0.182	0.182	/	/
Hotspot	Right	/	0.153	0.153	0.120	0.241	0.013	0.273	0.394	0.166	/	/
	Тор	0.106	/	0.106	0.112	0.970	0.010	0.218	1.076	0.116	/	/
	Bottom	/	0.800	0.800	/	/	/	0.800	0.800	0.800	/	/
	Front	/			/	0.468	/	0.000	0.468	0.000	/	/
Product	Back	/			/	0.776	/	0.000	0.776	0.000	/	/
specific	Left	/			/	/	/	0.000	0.000	0.000	/	/
10g	Right	/			/	0.135	/	0.000	0.135	0.000	/	/
SAR	Тор	/		•	/	1.190	/	0.000	1.190	0.000	/	/
	Bottom	/			/	/	/	0.000	0.000	0.000	/	/

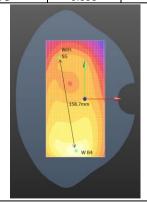
8.4.3 SPLSR Evaluation Analysis

According to KDB447498 D01v06, When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR). When the SAR to peak location ratio for each pair of antennas is ≤1-g 0.04 and 10-g 0.10, simultaneous SAR evaluation is not required. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following fomula:

Distance_{Tx1-Tx2} =
$$R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

SPLS Ratio =
$$(SAR_1 + SAR_2)^{1.5}/R_i$$

Case No.	Position	Band	SAR (W/kg)	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
1#	Back	WCDMA B4	1.057	158.7	1.915	0.017	Not Required
1#	Dack	WIFI 5G	0.858	130.7	1.915	0.017	Not Required





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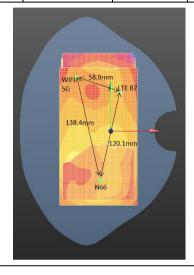
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Report No.: AR/2021/1000808

Page : 129 of 132

Case No.	Position	Band	SAR (W/kg)	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	Back side	LTE B7	0.486	120.1	1.062	0.009	Not Required
2#		N66	0.576				
		LTE B7	0.486	58.9	1.344	0.026	Not Required
		WIFI 5G	0.858	56.9			
		N66	0.576	138.4	1.434	0.012	Not Required
		WIFI 5G	0.858				





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Report No.: AR/2021/1000808

Page : 130 of 132

Equipment list 9

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

Hardware Reference

Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
	Twin Phantom	SPEAG	SAM 11	1027	NCR	NCR
\boxtimes	Twin Phantom	SPEAG	SAM 10	1563	NCR	NCR
\boxtimes	Twin Phantom	SPEAG	SAM 3	1912	NCR	NCR
	Twin Phantom	SPEAG	SAM 9	1769	NCR	NCR
\boxtimes	Twin Phantom	SPEAG	SAM 2	1913	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4	896	2021-02-05	2022-02-04
\boxtimes	DAE	SPEAG	DAE4	1267	2020-06-12	2021-06-11
\boxtimes	DAE	SPEAG	DAE4	702	2020-08-13	2021-08-12
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3793	2020-05-09	2021-05-08
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3748	2020-07-29	2021-07-28
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3204	2021-02-10	2021-02-09
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3982	2020-10-28	2021-10-27
\boxtimes	Validation Kits	SPEAG	D750V3	1160	2019-05-22	2022-05-21
\boxtimes	Validation Kits	SPEAG	D835V2	4d105	2019-12-17	2022-12-16
\boxtimes	Validation Kits	SPEAG	D1750V2	1149	2019-05-21	2022-05-20
\boxtimes	Validation Kits	SPEAG	D1900V2	5d028	2019-12-17	2022-12-16
\boxtimes	Validation Kits	SPEAG	D2450V2	733	2019-12-17	2022-12-16
\boxtimes	Validation Kits	SPEAG	D2600V2	1125	2019-05-20	2022-05-19
\boxtimes	Validation Kits	SPEAG	D3700V2	1046	2019-09-06	2022-09-05
\boxtimes	Validation Kits	SPEAG	D3900V2	1026	2019-09-03	2022-09-02
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1165	2019-12-20	2022-12-19
\boxtimes	Agilent Network Analyzer	Agilent	E5071C	MY46523591	2020-04-16	2021-04-15
\boxtimes	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2020-04-16	2021-04-15
\boxtimes	Radio Communication Analyzer	Anritsu	MT8821C	6201502984	2020-06-11	2021-06-10
	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
	Signal Generator	Agilent	N5171B	MY53050736	2020-04-15	2021-04-14



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Report No.: AR/2021/1000808

: 131 of 132 Page

	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
\boxtimes	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	073501433	NCR	NCR
	Power Meter	Agilent	E4416A	GB41292095	2020-04-15	2021-04-14
	Power Sensor	Agilent	8481H	MY41091234	2020-04-15	2021-04-14
\boxtimes	Power Sensor	R&S	NRP-Z92	100025	2020-04-16	2021-04-15
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
\boxtimes	50 Ω coaxial load	Mini-Circuits	KARN-50+	00850	NCR	NCR
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
\boxtimes	Speed reading thermometer	MingGao	T809	NA	2020-04-21	2021-04-20
\boxtimes	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2020-04-21	2021-04-20

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

10 Calibration certificate

Please see the Appendix C

11 **Photographs**

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power Table



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Report No.: AR/2021/1000808

Page : 132 of 132

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